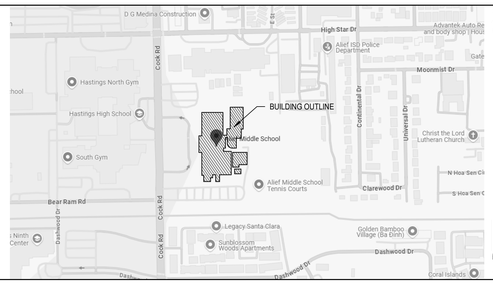
ALIEF ISD

ALIEF MIDDLE SCHOOL - RESTROOM RENOVATIONS - PACKAGE I

4415 COOK ROAD
HOUSTON, TX 77072

ISSUE FOR BID & PERMIT
MAY 6, 2025

PROJECT LOCATION



PROJECT ADDRESS:
4415 COOK ROAD
HOUSTON, TX 77072

MAP DATA COPYRIGHT GOOGLE 2025

PROJECT INFORMATION

SCOPE OF WORK: THE SCOPE OF THIS PROJECT IS AN INTERIOR IMPROVEMENT OF SELECT EXISTING RESTROOMS WITHIN AN EXISTING MIDDLE SCHOOL. WORK TO INCLUDE NEW WALLS, CEILINGS, DOORS, MILLWORK AND FINISHES. WITH SOME MECHANICAL, ELECTRICAL AND PLUMBING ADJUSTMENTS.

NO CHANGE TO OCCUPANCY TYPE.

TABS#: 2025018385

GOVERNING CODES & REGULATIONS:

GOVERNING AHJ:	CITY OF HOUSTON STATE OF TEXAS
BUILDING CODE:	2021 INTERNATIONAL BUILDING CODE (W/ HOUSTON AMENDMENTS)
MECHANICAL CODE:	2021 UNIFORM MECHANICAL CODE (W/ HOUSTON AMENDMENTS)
ELECTRICAL CODE:	2023 NATIONAL ELECTRICAL CODE
PLUMBING CODE:	2021 UNIFORM PLUMBING CODE (W/ HOUSTON AMENDMENTS)
FIRE CODE:	2021 INTERNATIONAL FIRE CODE (W/ HOUSTON AMENDMENTS)
ENERGY CODE:	2021 INTERNATIONAL ENERGY CONSERVATION CODE (W/ HOUSTON AMENDMENTS)
ACCESSIBILITY:	2012 TEXAS ACCESSIBILITY STANDARDS

BUILDING OWNER: ALIEF ISD ADMINISTRATION BUILDING
4250 COOK ROAD
HOUSTON, TX 77072
JESSE GONZALEZ
281.498.8110 EXT 29582
jesse.gonzalez@aliefisd.net

PROJECT TEAM

CLIENT NAME	ALIEF ISD ADMINISTRATION BUILDING 4250 COOK ROAD HOUSTON, TX 77072	JESSE GONZALEZ 281.498.8110 EXT 29582 jesse.gonzalez@aliefisd.net
OWNDER'S REPRESENTATIVE	ALIEF ISD ADMINISTRATION BUILDING 4250 COOK ROAD HOUSTON, TX 77072	JESSE GONZALEZ 281.498.8110 EXT 29582 jesse.gonzalez@aliefisd.net
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MEP ENGINEER	DBR INC. 9990 RICHMOND AVE, SUITE 300 HOUSTON, TX 77042	BRENT MOE 713.914.0888 bmoe@dbrinc.com

ALTERNATE PRICING

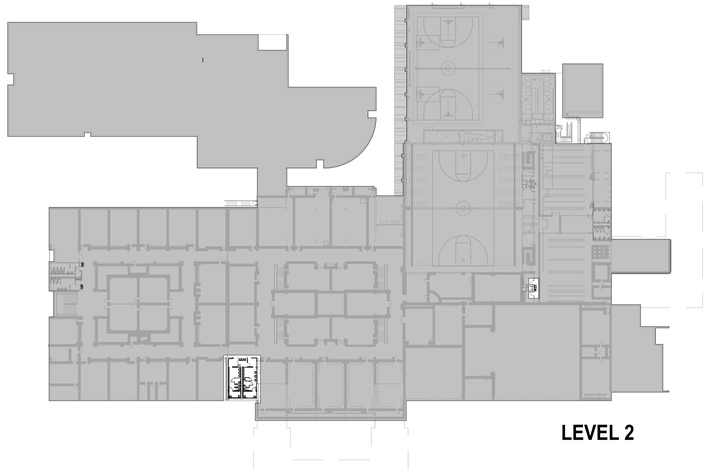
1. X
2. X

DEFERRED SUBMITTALS

NA

KEY PLANS

LEVEL 1



LEVEL 2

SHEET INDEX & ISSUE SCHEDULE

.GENERAL.

G0.1	COVER SHEET

.CODE.

CP1.0	TEXAS ADA
CP1.1	LEVEL 01 - CODE PLAN
CP1.2	LEVEL 02 - CODE PLAN

.ARCHITECTURAL.

A0.1	GENERAL NOTES, ARCHITECTURAL SYMBOLS & ABBREVIATIONS
AD1.1	OVERALL LEVEL 01 - DEMOLITION PLAN
AD1.2	OVERALL LEVEL 02 - DEMOLITION PLAN
AD2.1	ENLARGED LEVEL 01 - DEMOLITION PLANS
AD2.2	ENLARGED LEVEL 02 - DEMOLITION PLANS
A1.1	LEVEL 01 - OVERALL FLOOR PLAN
A1.2	LEVEL 02 - OVERALL FLOOR PLAN
A2.1	ACCESSIBILITY MOUNTING HEIGHTS
A2.2	ENLARGED FLOOR PLANS & ELEVATIONS
A2.5	ENLARGED FLOOR PLANS & ELEVATIONS
A2.6	ENLARGED FLOOR PLANS & ELEVATIONS
A2.8	ENLARGED FLOOR PLANS & ELEVATIONS
A2.9	ENLARGED FLOOR PLANS & ELEVATIONS
A2.10	ENLARGED FLOOR PLANS & ELEVATIONS
A2.11	ENLARGED FLOOR PLANS & ELEVATIONS
A3.1	LEVEL 01 - OVERALL - REFLECTED CEILING PLAN
A3.2	LEVEL 02 - OVERALL REFLECTED CEILING PLAN
A8.2	DOOR & FRAME TYPE & SCHEDULE
A12.01	FINISH SCHEDULES
A14.1	LEVEL 01 - SIGNAGE PLAN

.MECHANICAL.

M0.01	MECHANICAL SYMBOL LEGEND
M0.11	MECHANICAL GENERAL NOTES & DETAILS
M2.11	LEVEL 01 - MECHANICAL PLAN
M2.21	LEVEL 02 - MECHANICAL PLAN
M3.01	LEVEL 01 - MECHANICAL PLAN - ENLARGED
M3.02	LEVEL 02 - MECHANICAL PLAN - ENLARGED

.PLUMBING.

P0.01	PLUMBING SYMBOL LEGEND
P0.11	PLUMBING GENERAL NOTES
P2.11	LEVEL 01 - DEMOLITION PLUMBING PLAN
P2.12	LEVEL 02 - DEMOLITION PLUMBING PLAN
P2.21	LEVEL 01 - PLUMBING PLAN
P2.22	LEVEL 02 - PLUMBING PLAN
P3.01	LEVEL 01 - DEMOLITION PLUMBING PLAN - ENLARGED
P3.02	LEVEL 01 - DEMOLITION PLUMBING PLAN - ENLARGED
P3.03	LEVEL 02 - DEMOLITION PLUMBING PLAN - ENLARGED
P3.04	LEVEL 01 - PLUMBING PLAN - ENLARGED
P3.05	LEVEL 01 - PLUMBING PLAN - ENLARGED
P3.06	LEVEL 02 - PLUMBING PLAN - ENLARGED
P5.01	PLUMBING SCHEDULES
P6.01	PLUMBING DETAILS

.ELECTRICAL.

E0.01	ELECTRICAL SYMBOL LEGEND
E0.11	ELECTRICAL GENERAL NOTES
E1.11	LEVEL 01 - COMPOSITE ELECTRICAL LIGHTING PLAN - DEMO & NEW
E1.21	LEVEL 02 - COMPOSITE ELECTRICAL LIGHTING PLAN - DEMO & NEW
E2.11	LEVEL 01 - COMPOSITE ELECTRICAL POWER PLAN - DEMO & NEW
E2.21	LEVEL 02 - COMPOSITE ELECTRICAL POWER PLAN - DEMO & NEW
E3.01	LEVEL 01 - ELECTRICAL PLANS - ENLARGED
E3.02	LEVEL 01 - ELECTRICAL PLANS - ENLARGED
E3.03	LEVEL 01 - ELECTRICAL PLANS - ENLARGED
E3.04	LEVEL 01 - ELECTRICAL PLANS - ENLARGED
E3.05	LEVEL 01 - ELECTRICAL PLANS - ENLARGED
E3.06	LEVEL 01 - ELECTRICAL PLANS - ENLARGED
E3.07	LEVEL 02 - ELECTRICAL PLANS - ENLARGED
E3.08	LEVEL 02 - ELECTRICAL PLANS - ENLARGED
E5.01	ELECTRICAL SCHEDULES & DETAILS
E5.02	ELECTRICAL PANEL SCHEDULES

DLRGROUP
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REGISTERED ARCHITECT
AJ SUSTAITA
23632
STATE OF TEXAS
5/31/2025

ALIEF MIDDLE - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT
4415 COOK ROAD
HOUSTON, TX 77072

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
ADD 5 10-31-25 CLIENT VE
ADD 6 02-11-26 ISSUE FOR BID & PERMIT

39-25156-00

COVER SHEET

G0.1

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2012 TAS Standards for Accessible Design

for Public Accomodations and Commercial Facilities: Title III

CHAPTER 3: BUILDING BLOCKS

301 General

301.1 Scope. The provisions of Chapter 3 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

302 Floor or Ground Surfaces

302.1 General. Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302.

EXCEPTIONS:
1. Within animal containment areas, floor and ground surfaces shall not be required to be stable, firm, and slip resistant.
2. Areas of sport activity shall not be required to comply with 302.

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed edge. Carpet edge trim shall comply with 303.

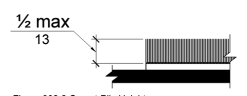

Figure 302.2 Carpet Pile Height

302.3 Openings. Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.

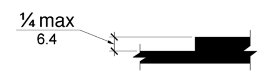

Figure 303.2 Vertical Change in Level

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

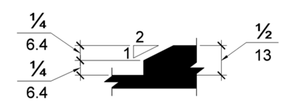

Figure 303.3 Beveled Change in Level

303.4 Ramps. Changes in level greater than 1/2 inch (13 mm) high shall be ramped, and shall comply with 405 or 406.

304 Turning Space

304.1 General. Turning space shall comply with 304.

304.2 Floor or Ground Surfaces. Floor or ground surfaces of a turning space shall comply with 302. Changes in level are not permitted.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

304.3 Size. Turning space shall comply with 304.3.1 or 304.3.2.

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

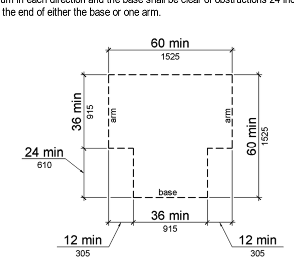

Figure 304.3.2 T-Shaped Turning Space

304.4 Door Swing. Doors shall be permitted to swing into turning spaces.

305 Clear Floor or Ground Space

305.1 General. Clear floor or ground space shall comply with 305.

305.2 Floor or Ground Surfaces. Floor or ground surfaces of a clear floor or ground space shall comply with 302. Changes in level are not permitted.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

305.3 Size. The clear floor or ground space shall be 30 inches (760 mm) minimum by 48 inches (1220 mm) minimum.

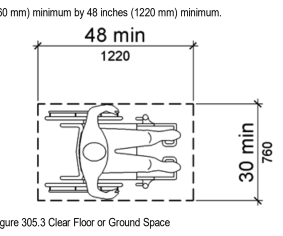

Figure 305.3 Clear Floor or Ground Space

305.4 Knee and Toe Clearance. Unless otherwise specified, clear floor or ground space shall be permitted to include knee and toe clearance complying with 306.

305.5 Position. Unless otherwise specified, clear floor or ground space shall be positioned for either forward or parallel approach to an element.

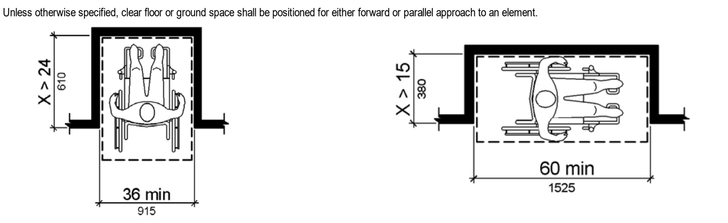

Figure 305.5 Position of Clear Floor or Ground Space

305.6 Approach. One full unobstructed side of the clear floor or ground space shall adjoin an accessible route or adjoin another clear floor or ground space.

305.7 Maneuvering Clearance. Where a clear floor or ground space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearance shall be provided in accordance with 305.7.1 and 305.7.2.

305.7.1 Forward Approach. Alcoves shall be 36 inches (915 mm)wide minimum where the depth exceeds 24 inches (610 mm).

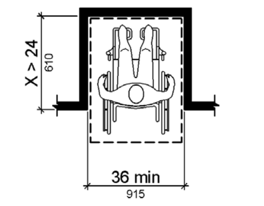

Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

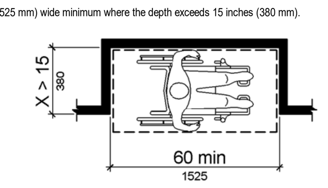

Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

306 Knee and Toe Clearance

306.1 General. Where space beneath an element is included as part of clear floor or ground space or turning space, the space shall comply with 306. Additional space shall not be prohibited beneath an element but shall not be considered as part of the clear floor or ground space or turning space.

306.2 Toe Clearance.

306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

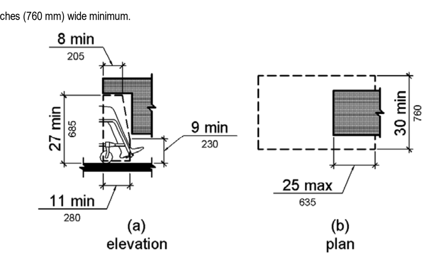

Figure 306.2 Toe Clearance

306.3 Knee Clearance.

306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.

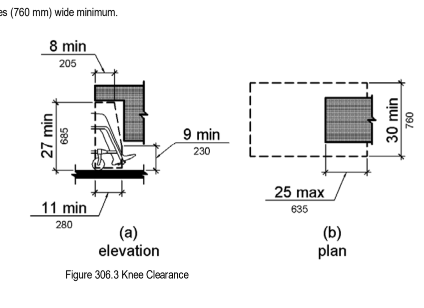

Figure 306.3 Knee Clearance

307 Protruding Objects

307.1 General. Protruding objects shall comply with 307.

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

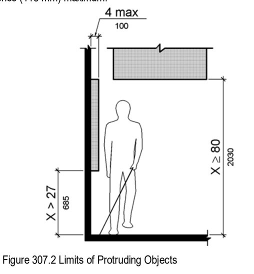

Figure 307.2 Limits of Protruding Objects

307.3 Post-Mounted Objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum above the finish floor or ground.

EXCEPTION: The sloping portions of handrails serving stairs and ramps shall not be required to comply with 307.3.

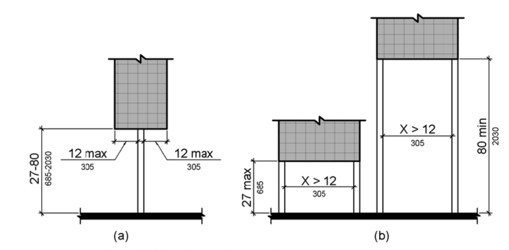

Figure 307.3 Post-Mounted Protruding Objects

307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

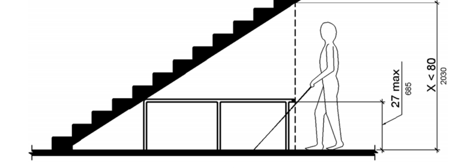

Figure 307.4 Vertical Clearance

307.5 Required Clear Width. Protruding objects shall not reduce the clear width required for accessible routes.

308 Reach Ranges

308.1 General. Reach ranges shall comply with 308.

Children's Reach Ranges			
Forward or Side Reach	Ages 3 and 4	Ages 5 through 8	Ages 9 through 12
High (maximum)	36 in (915 mm)	40 in (1015 mm)	44 in (1120 mm)
Low (minimum)	20 in (510 mm)	18 in (455 mm)	16 in (405 mm)

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

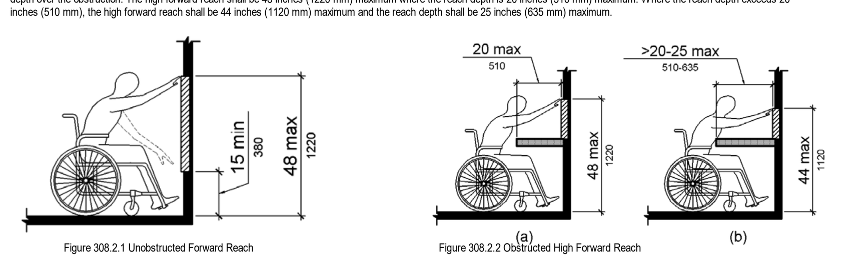

Figure 308.2.1 Unobstructed Forward Reach

Figure 308.2.2 Obstructed High Forward Reach

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

EXCEPTIONS:
1. An obstruction shall be permitted between the clear floor or ground space and the element where the depth of the obstruction is 10 inches (255 mm) maximum.
2. Operable parts of fuel dispensers shall be permitted to be 54 inches (1370 mm) maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs.

308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

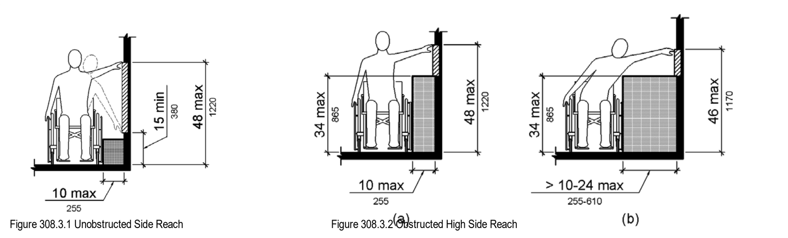

Figure 308.3.1 Unobstructed Side Reach

Figure 308.3.2 Obstructed High Side Reach

CHAPTER 4: ACCESSIBLE ROUTES

401 General

401.1 Scope. The provisions of Chapter 4 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

402 Accessible Routes

402.1 General. Accessible routes shall comply with 402.

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

403 Walking Surfaces

403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

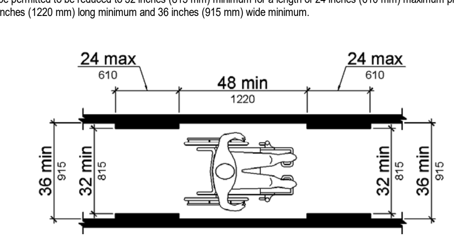

Figure 403.5.1 Clear Width of an Accessible Route

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

EXCEPTION: Where the clear width at the turn is 60 inches (1525 mm) minimum compliance with 403.5.2 shall not be required.

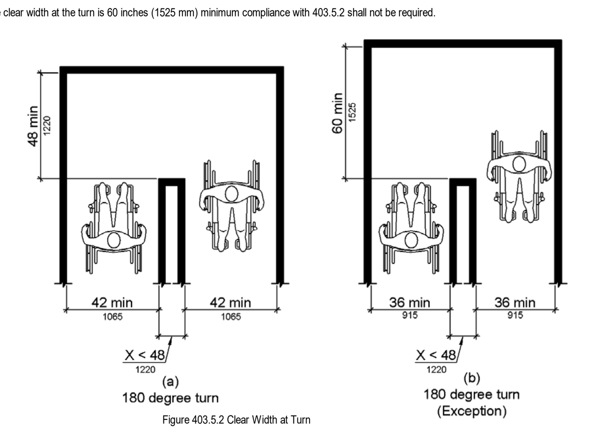

Figure 403.5.2 Clear Width at Turn

403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum. Passing spaces shall be either: a space 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum; or, an intersection of two walking surfaces providing a T-shaped space complying with 304.3.2 where the base and arms of the T-shaped space extend 48 inches (1220 mm) minimum beyond the intersection.

403.6 Handrails. Where handrails are provided along walking surfaces with running slopes not steeper than 1:20 they shall comply with 505.

404 Doors, Doorways, and Gates

404.1 General. Doors, doorways, and gates that are part of an accessible route shall comply with 404.

EXCEPTION: Doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with 404.2.7, 404.2.8, 404.2.9, 404.3.2 and 404.3.4 through 404.3.7.

404.2 Manual Doors, Doorways, and Manual Gates. Manual doors and doorways and manual gates intended for user passage shall comply with 404.2.

404.2.1 Revolving Doors, Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

404.2.2 Double-Leaf Doors and Gates. At least one of the active leaves of doorways with two leaves shall comply with 404.2.3 and 404.2.4.

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

EXCEPTIONS:
1. In alterations, a projection of 5/8 inch (16 mm) maximum into the required clear width shall be permitted for the latch side stop.
2. Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

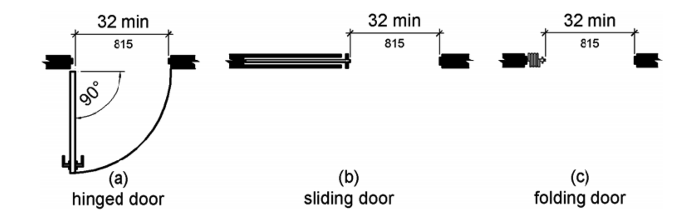

Figure 404.2.3 Clear Width of Doorways

404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

EXCEPTION: Entry doors to hospital patient rooms shall not be required to provide the clearance beyond the latch side of the door.

404.2.4.1 Swinging Doors and Gates. Swinging doors and gates shall have maneuvering clearances complying with Table 404.2.4.1.

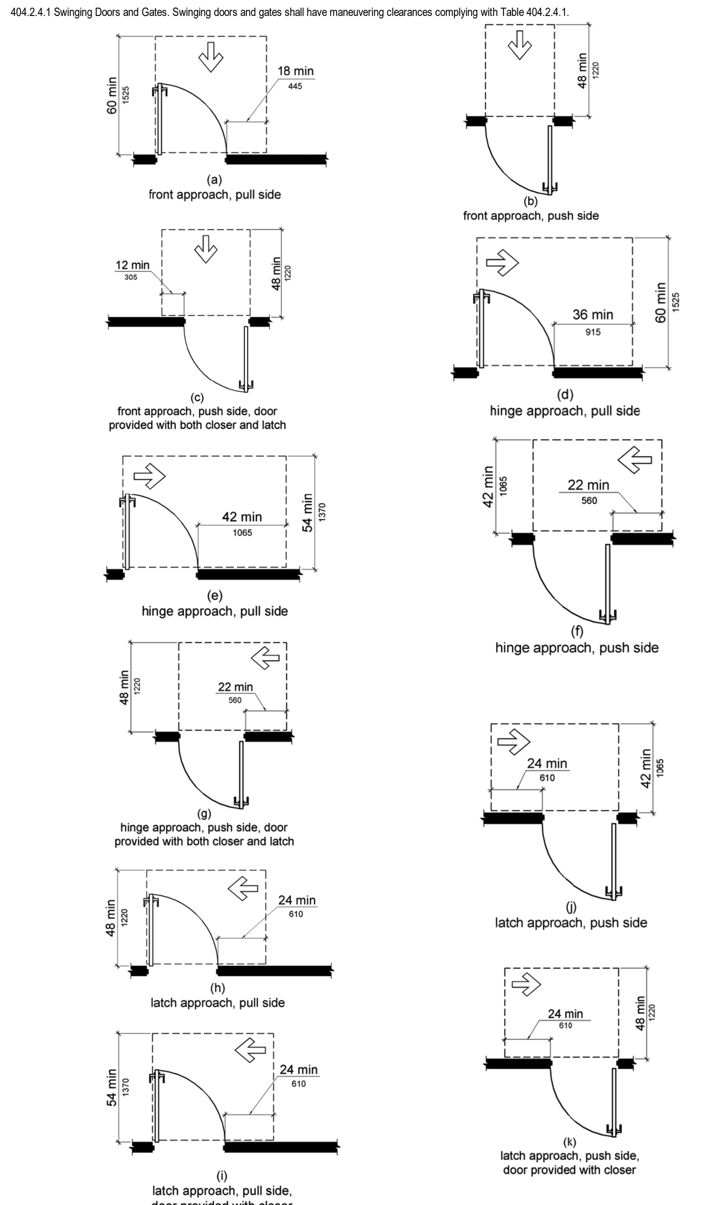

Figure 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates

404.2.4.2 Doorways without Doors or Gates, Sliding Doors, and Folding Doors. Doorways less than 36 inches (915 mm) wide without doors or gates, sliding doors, or folding doors shall have maneuvering clearances complying with Table 404.2.4.2.

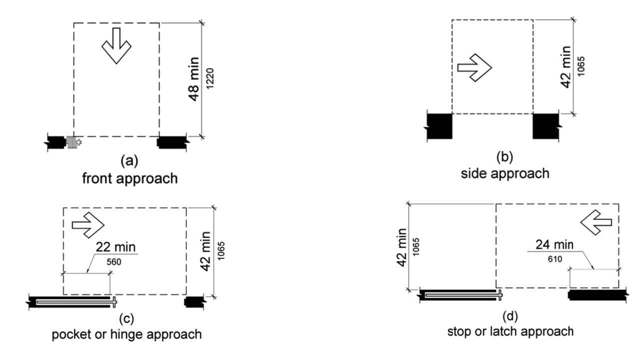

Figure 404.2.4.2 Maneuvering Clearances at Doorways Without Doors, Sliding Doors, Gates, and Folding Doors

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

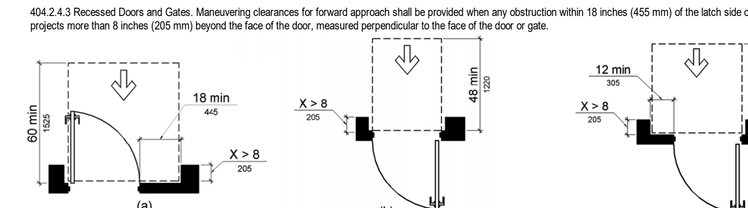

Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

404.2.4.4 Floor or Ground Surface. Floor or ground surface within required maneuvering clearances shall comply with 302. Changes in level are not permitted.

EXCEPTIONS:
1. Slopes not steeper than 1:48 shall be permitted.
2. Changes in level at thresholds complying with 404.2.5 shall be permitted.

404.2.5 Thresholds. Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303.

EXCEPTION: Existing or altered thresholds 3/4 inch (19 mm) high maximum that have a beveled edge on each side with a slope not steeper than 1:2 shall not be required to comply with 404.2.5.

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

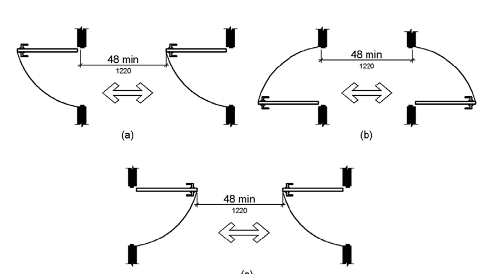

Figure 404.2.6 Doors in Series and Gates in Series

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

405 Ramps

405.1 General. Ramps on accessible routes shall comply with 405.

EXCEPTION: In assembly areas, aisle ramps adjacent to seating and not serving elements required to be on an accessible route shall not be required to comply with 405.

405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.

EXCEPTION: In existing sites, buildings, and facilities, ramps shall be permitted to have running slopes steeper than 1:12 complying with Table 405.2 where such slopes are necessary due to space limitations.

Table 405.2 Maximum Ramp Slope and Rise for Existing Sites, Buildings, and Facilities	
Slope (A slope steeper than 1:8 is prohibited)	Maximum Rise
Steeper than 1:10 but not steeper than 1:8	3 inches (75 mm)
Steeper than 1:12 but not steeper than 1:10	6 inches (150 mm)

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

405.4 Floor or Ground Surfaces. Floor or ground surfaces of ramp runs shall comply with 302. Changes in level other than the running slope and cross slope are not permitted on ramp runs.

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.

EXCEPTION: Within employee work areas, the required clear width of ramps that are a part of common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum.

405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run. Landings shall comply with 405.7.

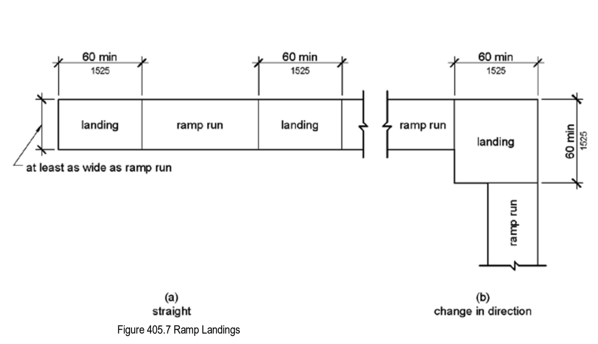

Figure 405.7 Ramp Landings

405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 505.

405.9.2 Curb or Barrier. A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground surface.

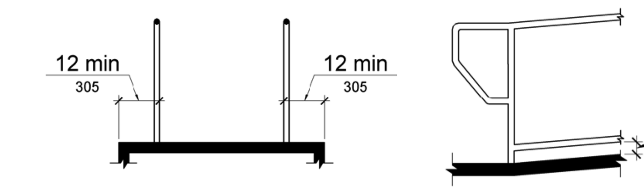

Figure 405.9.1 Extended Floor or Ground Surface Edge Protection

Figure 405.9.2 Curb or Barrier Edge Protection

405.10 Wet Conditions. Landings subject to wet conditions shall be designed to prevent the accumulation of water.

406 Curb Ramps

406.1 General. Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.

406.2 Counter Slope. Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

406.3 Sides of Curb Ramps. Where provided, curb ramp flares shall not be steeper than 1:10.

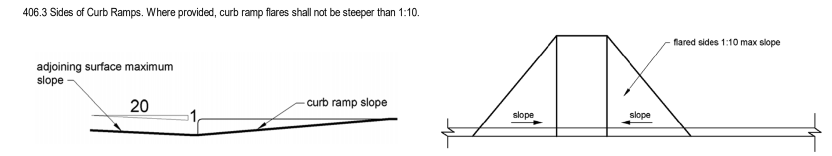

Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps

Figure 406.3 Sides of Curb Ramps

406.4 Landings. Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36 inches (915 mm) minimum. The landing clear width shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing.

EXCEPTION: In alterations, where there is no landing at the top of curb ramps, curb ramp flares shall be provided and shall not be steeper than 1:12.

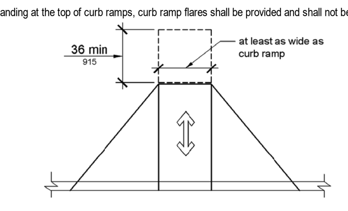

Figure 406.4 Landings at the Top of Curb Ramps

406.5 Location. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.

406.6 Diagonal Curb Ramps. Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have a clear space 48 inches (1220 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1220 mm) minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches (610 mm) long minimum located on each side of the curb ramp and within the marked crossing.

407.2 Elevator Landing Requirements. Elevator landings shall comply with 407.2.

407.2.1 Call Controls. Where elevator call buttons or keypads are provided, they shall comply with 407.2.1 and 309.4. Call buttons shall be raised or flush.

EXCEPTION: Existing elevators shall be permitted to have recessed call buttons.

407.2.1.1 Height. Call buttons and keypads shall be located within one of the reach ranges specified in 308, measured to the centerline of the highest operable part.

EXCEPTION: Existing call buttons and existing keypads shall be permitted to be located at 54 inches (1370 mm) maximum above the finish floor, measured to the centerline of the highest operable part.

407.2.1.2 Size. Call buttons shall be 3/4 inch (19 mm) minimum in the smallest dimension.

EXCEPTION: Existing elevator call buttons shall not be required to comply with 407.2.1.2.

407.2.1.3 Clear Floor or Ground Space. A clear floor or ground space complying with 305 shall be provided at call controls.

407.2.2 Hall Signals. Hall signals, including in-car signals, shall comply with 407.2.2.

407.2.2.1 Visible and Audible Signals. A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel. Where in-car signals are provided, they shall be visible from the floor area adjacent to the hall call buttons.

EXCEPTIONS:
1. Visible and audible signals shall not be required at each destination-oriented elevator where a visible and audible signal complying with 407.2.2 is provided indicating the elevator car designation information.
2. In existing elevators, a signal indicating the direction of car travel shall not be required.

407.2.2.2 Visible Signals. Visible signal fixtures shall be centered at 72 inches (1830 mm) minimum above the finish floor or ground. The visible signal elements shall be 2 1/2 inches (64 mm) minimum measured along the vertical centerline of the element. Signals shall be visible from the floor area adjacent to the hall call button.

EXCEPTIONS:
1. Destination-oriented elevators shall be permitted to have signals visible from the floor area adjacent to the hoistway entrance.
2. Existing elevators shall not be required to comply with 407.2.2.2.

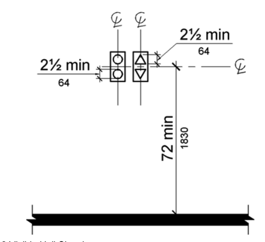

Figure 407.2.2.2 Visible Hall Signals

407.2.3 Hoistway Signs. Signs at elevator hoistways shall comply with 407.2.3.

407.2.3.1 Floor Designation. Floor designations complying with 703.2 and 703.4.1 shall be provided on both jambs of elevator hoistway entrances. Floor designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high minimum. A tactile star shall be provided on both jambs at the main entry level.

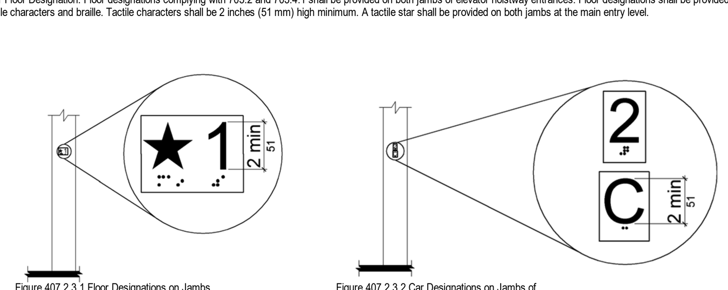

Figure 407.2.3.1 Floor Designations on Jambs of Elevator Hoistway Entrances

Figure 407.2.3.2 Car Designations on Jambs of Destination-Oriented Elevator Hoistway Entrances

CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

604 Water Closets and Toilet Compartments

604.1 General. Water closets and toilet compartments shall comply with 604.2 through 604.8.

EXCEPTION: Water closets and toilet compartments for children's use shall be permitted to comply with 604.9.

604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

604.3 Clearance. Clearances around water closets and in toilet compartments shall comply with 604.3.

604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.

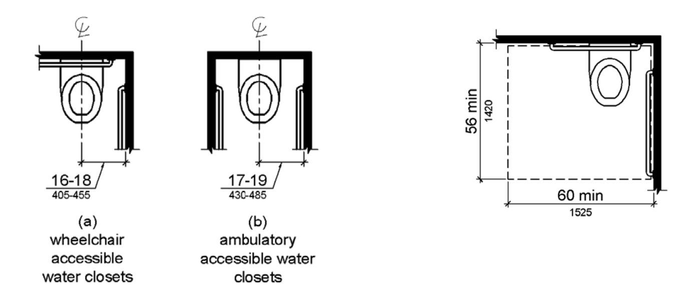

Figure 604.2 Water Closet Location

Figure 604.3.1 Size of Clearance at Water Closets

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

EXCEPTIONS:
1. A water closet in a toilet room for a single occupant accessed only through a private office and not for common use or public use shall not be required to comply with 604.4.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

EXCEPTIONS:
1. Grab bars shall not be required to be installed in a toilet room for a single occupant accessed only through a private office and not for common use or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall.

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

EXCEPTIONS:
1. The rear grab bar shall be permitted to be 24 inches (610 mm) long minimum, centered on the water closet, where wall space does not permit a length of 36 inches (915 mm) minimum due to the location of a recessed fixture adjacent to the water closet.
2. Where an administrative authority requires flush controls for flush valves to be located in a position that conflicts with the location of the rear grab bar, then the rear grab bar shall be permitted to be split or shifted to the open side of the toilet area.

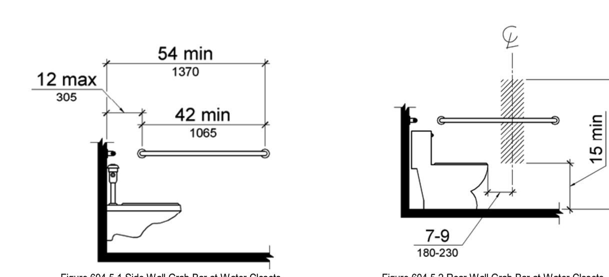

Figure 604.5.1 Side Wall Grab Bar at Water Closets

Figure 604.5.2 Rear Wall Grab Bar at Water Closets

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with 604.8.1.

604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

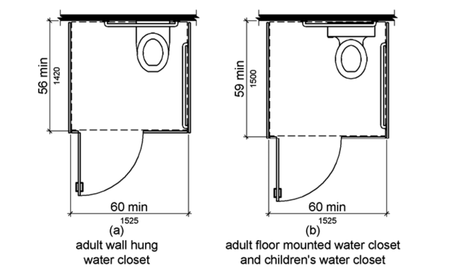

Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

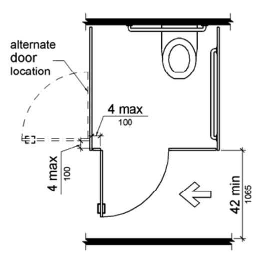

Figure 604.8.1.2 Wheelchair Accessible Toilet Compartment Doors

604.8.1.4 Toe Clearance. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.

EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm) deep.

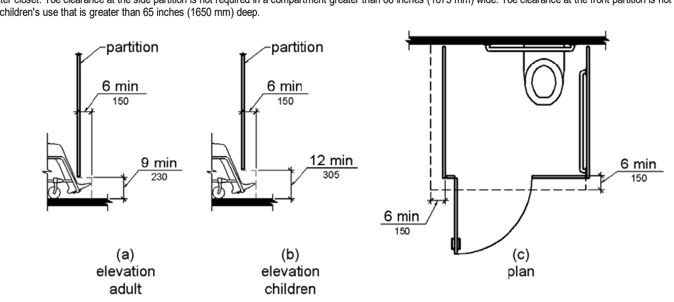

Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply with 604.8.2.

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum.

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.2.3 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

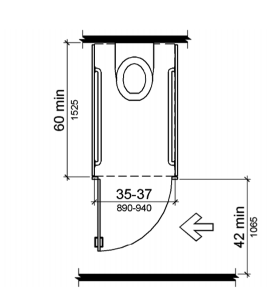

Figure 604.8.2 Ambulatory Accessible Toilet Compartment

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604.9 Water Closets and Toilet Compartments for Children's Use. Water closets and toilet compartments for children's use shall comply with 604.9.

605 Urinals

605.1 General. Urinals shall comply with 605.

605.2 Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

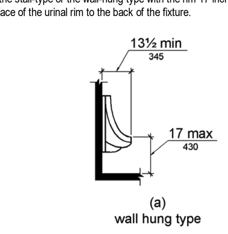

Figure 605.2 Height and Depth of Urinals

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

EXCEPTION: Braille provided on elevator car controls shall be separated 3/16 inch (4.8 mm) minimum and shall be located either directly below or adjacent to the corresponding raised characters or symbols.

703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

EXCEPTION: Tactile characters for elevator car controls shall not be required to comply with 703.4.1.

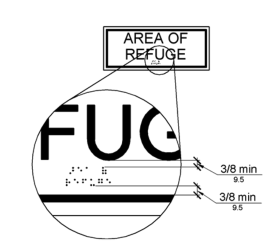

Figure 703.3.2 Position of Braille

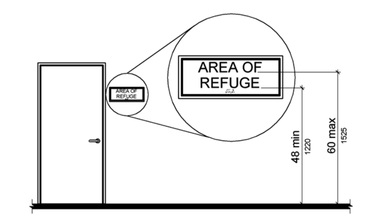

Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

EXCEPTION: Signs with tactile characters shall be permitted on the push side of doors with closers and without hold-open devices.

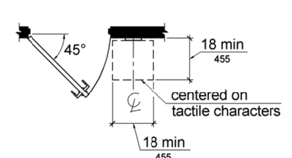

Figure 703.4.2 Location of Tactile Signs at Doors

CHAPTER 8: SPECIAL ROOMS, SPACES AND ELEMENTS

804 Kitchens and Kitchenettes

804.1 General. Kitchens and kitchenettes shall comply with 804.

804.2 Clearance. Where a pass through kitchen is provided, clearances shall comply with 804.2.1. Where a U-shaped kitchen is provided, clearances shall comply with 804.2.2.

EXCEPTION: Spaces that do not provide a cooktop or conventional range shall not be required to comply with 804.2.

Advisory 804.2 Clearance. Clearances are measured from the furthest projecting face of all opposing base cabinets, counter tops, appliances, or walls, excluding hardware.

804.2.1 Pass Through Kitchen. In pass through kitchens where counters, appliances or cabinets are on two opposing sides, or where counters, appliances or cabinets are opposite a parallel wall, clearance between all opposing base cabinets, counter tops, appliances, or walls within kitchen work areas shall be 40 inches (1015 mm) minimum. Pass through kitchens shall have two entries.

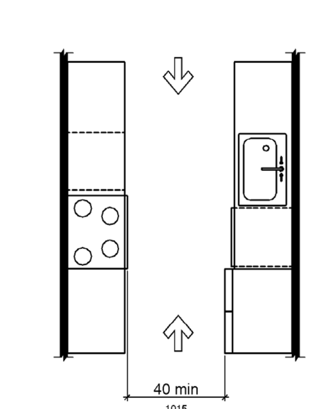

Figure 804.2.1 Pass Through Kitchens

804.2.2 U-Shaped. In U-shaped kitchens enclosed on three contiguous sides, clearance between all opposing base cabinets, counter tops, appliances, or walls within kitchen work areas shall be 60 inches (1525 mm) minimum.

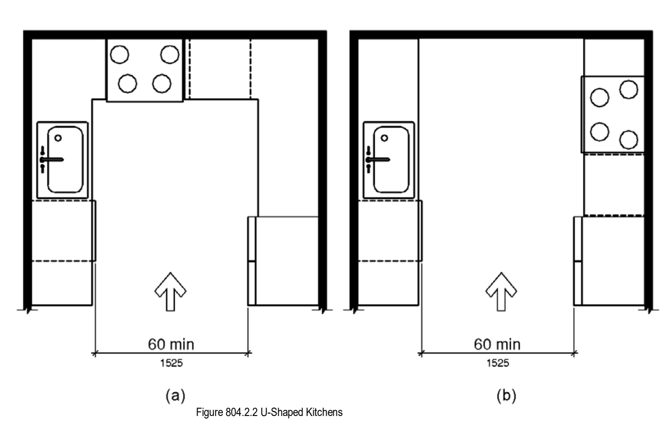

Figure 804.2.2 U-Shaped Kitchens

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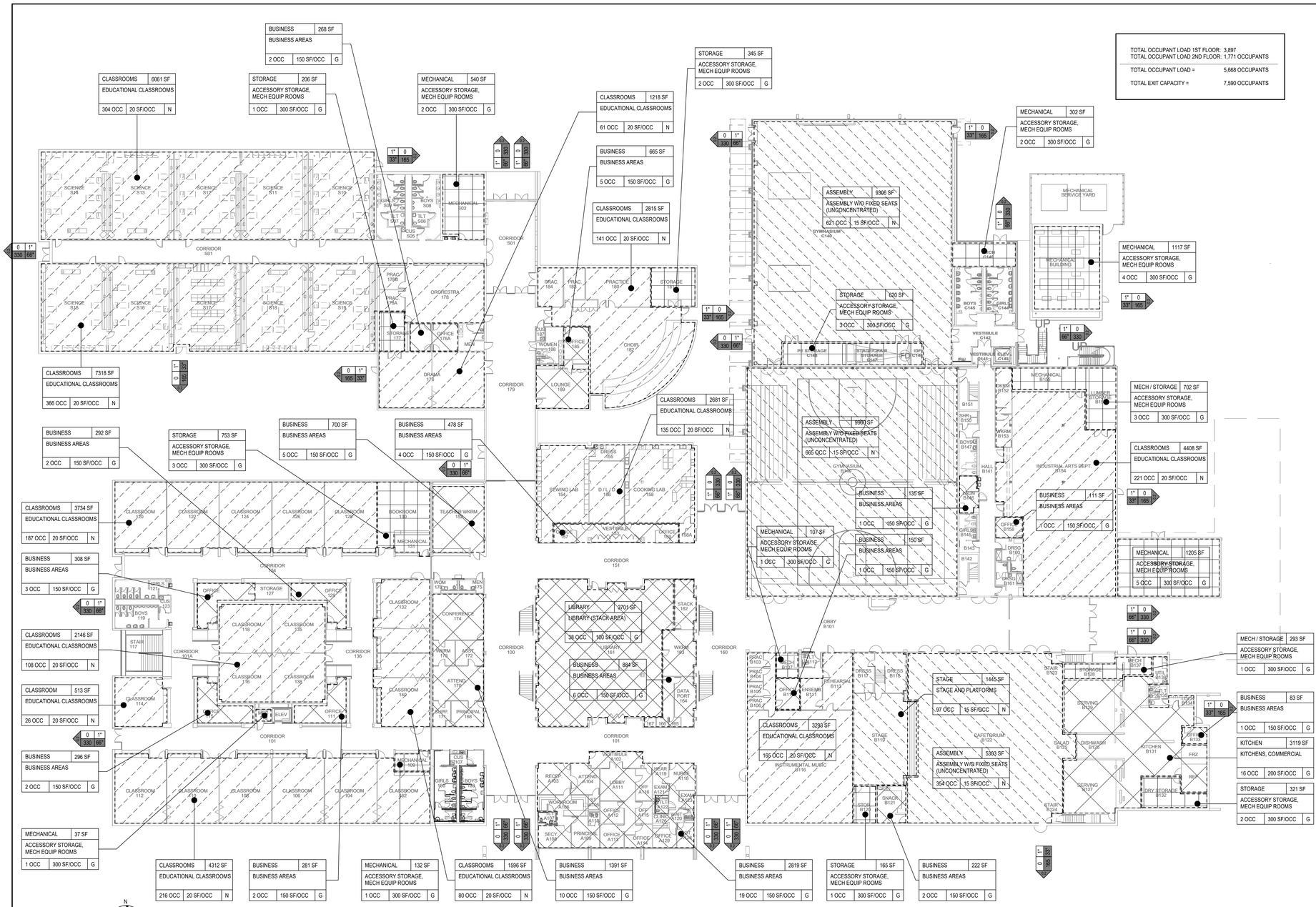
TOTAL OCCUPANT LOAD 1ST FLOOR:	3,897
TOTAL OCCUPANT LOAD 2ND FLOOR:	1,771 OCCUPANTS
TOTAL OCCUPANT LOAD =	5,668 OCCUPANTS
TOTAL EXIT CAPACITY =	7,590 OCCUPANTS

Area/Occupant Load Schedule (Code Analysis - LEVEL 1)

Name	Function of Space	Area	Occupancy Load Factor	OLF
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	540 SF	300	2
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	206 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	345 SF	300	2
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	132 SF	300	1
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	37 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	753 SF	300	3
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	107 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	165 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	321 SF	300	2
MECH / STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	293 SF	300	1
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	1205 SF	300	5
MECH / STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	702 SF	300	3
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	620 SF	300	3
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	1117 SF	300	4
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	302 SF	300	1
ASSEMBLY	ASSEMBLY W/O FIXED SEATS (UNCONCENTRATED)	5303 SF	15	354
ASSEMBLY	ASSEMBLY W/O FIXED SEATS (UNCONCENTRATED)	9960 SF	15	664
ASSEMBLY	ASSEMBLY W/O FIXED SEATS (UNCONCENTRATED)	9306 SF	15	621
BUSINESS	BUSINESS AREAS	268 SF	150	2
BUSINESS	BUSINESS AREAS	665 SF	150	5
BUSINESS	BUSINESS AREAS	478 SF	150	4
BUSINESS	BUSINESS AREAS	308 SF	150	3
BUSINESS	BUSINESS AREAS	296 SF	150	2
BUSINESS	BUSINESS AREAS	292 SF	150	2
BUSINESS	BUSINESS AREAS	281 SF	150	2
BUSINESS	BUSINESS AREAS	2819 SF	150	19
BUSINESS	BUSINESS AREAS	1391 SF	150	10
BUSINESS	BUSINESS AREAS	700 SF	150	5
BUSINESS	BUSINESS AREAS	884 SF	150	6
BUSINESS	BUSINESS AREAS	150 SF	150	1
BUSINESS	BUSINESS AREAS	222 SF	150	2
BUSINESS	BUSINESS AREAS	83 SF	150	1
BUSINESS	BUSINESS AREAS	111 SF	150	1
BUSINESS	BUSINESS AREAS	135 SF	150	1
CLASSROOMS	EDUCATIONAL CLASSROOMS	6061 SF	20	304
CLASSROOMS	EDUCATIONAL CLASSROOMS	7318 SF	20	366
CLASSROOMS	EDUCATIONAL CLASSROOMS	1218 SF	20	61
CLASSROOMS	EDUCATIONAL CLASSROOMS	2815 SF	20	141
CLASSROOMS	EDUCATIONAL CLASSROOMS	2681 SF	20	135
CLASSROOMS	EDUCATIONAL CLASSROOMS	3734 SF	20	187
CLASSROOMS	EDUCATIONAL CLASSROOMS	2146 SF	20	108
CLASSROOM	EDUCATIONAL CLASSROOMS	513 SF	20	26
CLASSROOMS	EDUCATIONAL CLASSROOMS	4312 SF	20	216
CLASSROOMS	EDUCATIONAL CLASSROOMS	1596 SF	20	80
CLASSROOMS	EDUCATIONAL CLASSROOMS	3293 SF	20	165
CLASSROOMS	EDUCATIONAL CLASSROOMS	4408 SF	20	221
KITCHEN	KITCHENS, COMMERCIAL	3119 SF	200	16
LIBRARY	LIBRARY (STACK AREA)	3701 SF	100	38
STAGE	STAGE AND PLATFORMS	1445 SF	15	97
				3897

2,903 TEA COUNT



CODE PLAN, LEVEL 1

SCALE: 1" = 20'-0"

LEGEND - CODE FLOOR PLANS

Area name | XXXX SF
Space Function
XXX OCC | XXX SF/OCC | G

ROOM NUMBER
/ XXXX SF / XXX
AREA (SF)
OCCUPANT LOAD

ROOM NAME
NAME / XXXX SF / XXX
AREA (SF)
OCCUPANT LOAD

EXIT TAG
- CUMULATIVE OCCUPANT LOAD
- EGRESS CAPACITY

REQUIRED OCCUPANT LOAD
REQUIRED WIDTH FOR OCCUPANT LOAD (INCHES)
0 | 1" / 0 | 0"
CAPACITY OF EGRESS COMPONENT (WIDTH IN INCHES)
CAPACITY OF EGRESS COMPONENT (OCCUPANTS)
EGRESS CAPACITY FACTOR (INCHES/OCCUPANT)
- WHEN CAPACITY FACTOR TRIANGLE IS FILLED - THIS IS TOTAL OCCUPANT LOAD AT THIS EXIT FROM THIS STORY

DOOR TAG
PD / XX MIN
- PANIC DEVICE
- DOOR FIRE RATING

EXIT SIGN

MAX TRAVEL = Length — EXIT ACCESS TRAVEL DISTANCE
MAX CP = Length — COMMON PATH OF EGRESS TRAVEL DISTANCE
MAX DIAG DIM = X'-X" / 1/3 DIAG = X'-X" — MAX OVERALL DIAGONAL DIM OF AREA SERVED
MIN SEPARATION DISTANCE = X'-X" — MIN EXIT SEPARATION

SEPARATION LEGEND

HOURLY RATING
0 = 0 HOUR
½ = 1/2 HOUR
1 = 1 HOUR
2 = 2 HOUR
3 = 3 HOUR
4 = 4 HOUR

FIRE AND SMOKE SEPARATION TYPES
C = CORRIDOR (CYAN)
EW = EXTERIOR WALL (PURPLE)
FW = FIRE WALL (BLUE)
FB = FIRE BARRIER (RED)
FP = FIRE PARTITION (MAGENTA)
SP = SMOKE PARTITION (GREEN)
SB = SMOKE BARRIER (GREEN)
VS = VERTICAL SHAFT (ORANGE)
VX = VERTICAL EXIT ENCLOSURE (ORANGE)
XP = EXIT PASSAGEWAY (YELLOW)

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REGISTERED ARCHITECT — JUSTIN A. TATE — 23632 — STATE OF TEXAS — 12/31/2025

ALIEF MIDDLE - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT
4415 COOK ROAD
HOUSTON, TX 77072

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
ADD 5 10-31-25 CLIENT VE
ADD 6 02-11-26 ISSUE FOR BID & PERMIT

39-25156-00

LEVEL 01 - CODE PLAN

CP1.1

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TOTAL OCCUPANT LOAD 2ND FLOOR: 1,771 OCCUPANTS

TOTAL EXIT CAPACITY 2ND FLOOR: 2,099 OCCUPANTS

STORAGE	151 SF
ACCESSORY STORAGE, MECH EQUIP ROOMS	
1 OCC	300 SF/OCC G

CLASSROOMS	10303 SF
EDUCATIONAL CLASSROOMS	
516 OCC	20 SF/OCC N

STORAGE	249 SF
ACCESSORY STORAGE, MECH EQUIP ROOMS	
1 OCC	300 SF/OCC G

MECHANICAL	1334 SF
ACCESSORY STORAGE, MECH EQUIP ROOMS	
5 OCC	300 SF/OCC G

BUSINESS	340 SF
BUSINESS AREAS	
3 OCC	150 SF/OCC G

LOCKER ROOM	2456 SF
LOCKER ROOMS	
50 OCC	50 SF/OCC G

STORAGE	698 SF
ACCESSORY STORAGE, MECH EQUIP ROOMS	
3 OCC	300 SF/OCC G

STORAGE	804 SF
ACCESSORY STORAGE, MECH EQUIP ROOMS	
3 OCC	300 SF/OCC G

STORAGE	606 SF
ACCESSORY STORAGE, MECH EQUIP ROOMS	
3 OCC	300 SF/OCC G

LOCKER ROOM	2826 SF
LOCKER ROOMS	
57 OCC	50 SF/OCC G

BUSINESS	224 SF
BUSINESS AREAS	
2 OCC	150 SF/OCC G

CLASSROOMS	1617 SF
EDUCATIONAL CLASSROOMS	
81 OCC	20 SF/OCC N

STORAGE	111 SF
ACCESSORY STORAGE, MECH EQUIP ROOMS	
1 OCC	300 SF/OCC G

CLASSROOM	516 SF
EDUCATIONAL CLASSROOMS	
26 OCC	20 SF/OCC N

BUSINESS	318 SF
BUSINESS AREAS	
3 OCC	150 SF/OCC G

BUSINESS	273 SF
BUSINESS AREAS	
2 OCC	150 SF/OCC G

CLASSROOMS	3095 SF
EDUCATIONAL CLASSROOMS	
155 OCC	20 SF/OCC N

BUSINESS	106 SF
BUSINESS AREAS	
1 OCC	150 SF/OCC G

BUSINESS	114 SF
BUSINESS AREAS	
1 OCC	150 SF/OCC G

MECHANICAL	773 SF
ACCESSORY STORAGE, MECH EQUIP ROOMS	
3 OCC	300 SF/OCC G

STORAGE	76 SF
ACCESSORY STORAGE, MECH EQUIP ROOMS	
1 OCC	300 SF/OCC G

MECHANICAL	688 SF
ACCESSORY STORAGE, MECH EQUIP ROOMS	
3 OCC	300 SF/OCC G

CLASSROOMS	4724 SF
EDUCATIONAL CLASSROOMS	
237 OCC	20 SF/OCC N

MECHANICAL	688 SF
ACCESSORY STORAGE, MECH EQUIP ROOMS	
3 OCC	300 SF/OCC G

STORAGE	779 SF
ACCESSORY STORAGE, MECH EQUIP ROOMS	
3 OCC	300 SF/OCC G

CLASSROOMS	3508 SF
EDUCATIONAL CLASSROOMS	
176 OCC	20 SF/OCC N

MECHANICAL	414 SF
ACCESSORY STORAGE, MECH EQUIP ROOMS	
2 OCC	300 SF/OCC G

STORAGE	426 SF
ACCESSORY STORAGE, MECH EQUIP ROOMS	
2 OCC	300 SF/OCC G

CLASSROOMS	1554 SF
EDUCATIONAL CLASSROOMS	
78 OCC	20 SF/OCC N

CLASSROOMS	2312 SF
EDUCATIONAL CLASSROOMS	
116 OCC	20 SF/OCC N

CLASSROOMS	3095 SF
EDUCATIONAL CLASSROOMS	
155 OCC	20 SF/OCC N

CLASSROOMS	1554 SF
EDUCATIONAL CLASSROOMS	
78 OCC	20 SF/OCC N

CODE PLAN - LEVEL 2

CP1.2 / SCALE: 1" = 20'-0"

Area/Occupant Load Schedule (Code Analysis - LEVEL 2)

Name	Function of Space	Area	Occupancy Load Factor	OLF
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	151 SF	300	1
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	773 SF	300	3
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	76 SF	300	1
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	688 SF	300	3
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	688 SF	300	3
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	779 SF	300	3
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	249 SF	300	1
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	414 SF	300	2
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	426 SF	300	2
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	111 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	698 SF	300	3
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	606 SF	300	3
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	804 SF	300	3
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	1334 SF	300	5
BUSINESS	BUSINESS AREAS	318 SF	150	3
BUSINESS	BUSINESS AREAS	273 SF	150	2
BUSINESS	BUSINESS AREAS	114 SF	150	1
BUSINESS	BUSINESS AREAS	106 SF	150	1
BUSINESS	BUSINESS AREAS	224 SF	150	2
BUSINESS	BUSINESS AREAS	340 SF	150	3
CLASSROOMS	EDUCATIONAL CLASSROOMS	10303 SF	20	516
CLASSROOMS	EDUCATIONAL CLASSROOMS	3095 SF	20	155
CLASSROOM	EDUCATIONAL CLASSROOMS	516 SF	20	26
CLASSROOMS	EDUCATIONAL CLASSROOMS	2312 SF	20	116
CLASSROOMS	EDUCATIONAL CLASSROOMS	3095 SF	20	155
CLASSROOMS	EDUCATIONAL CLASSROOMS	1554 SF	20	78
CLASSROOMS	EDUCATIONAL CLASSROOMS	1554 SF	20	78
CLASSROOMS	EDUCATIONAL CLASSROOMS	4724 SF	20	237
CLASSROOMS	EDUCATIONAL CLASSROOMS	1617 SF	20	81
CLASSROOMS	EDUCATIONAL CLASSROOMS	3508 SF	20	176
LOCKER ROOM	LOCKER ROOMS	2456 SF	50	50
LOCKER ROOM	LOCKER ROOMS	2826 SF	50	57
				1771

1,182 TEA COUNT

LEGEND - CODE FLOOR PLANS

Area name	XXXX SF
Space Function	
XXX OCC	XXX SF/OCC G

ROOM NUMBER
/ XXXX SF / XXX
AREA (SF)
OCCUPANT LOAD

ROOM NAME
NAME / XXXX SF / XXX
AREA (SF)
OCCUPANT LOAD

EXIT TAG
- CUMULATIVE OCCUPANT LOAD
- EGRESS CAPACITY

REQUIRED OCCUPANT LOAD
REQUIRED WIDTH FOR OCCUPANT LOAD (INCHES)
CAPACITY OF EGRESS COMPONENT (WIDTH IN INCHES)
CAPACITY OF EGRESS COMPONENT (OCCUPANTS)
EGRESS CAPACITY FACTOR (INCHES/OCCUPANT)
- WHEN CAPACITY FACTOR TRIANGLE IS FILLED - THIS IS TOTAL OCCUPANT LOAD AT THIS EXIT FROM THIS STORY

DOOR TAG
- PANIC DEVICE
- DOOR FIRE RATING

EXIT SIGN

MAX TRAVEL = Length — EXIT ACCESS TRAVEL DISTANCE
MAX CP = Length — COMMON PATH OF EGRESS TRAVEL DISTANCE
MAX DIAG DIM = X'-X" / 1/3 DIAG = X'-X" — MAX OVERALL DIAGONAL DIM OF AREA SERVED
MIN SEPARATION DISTANCE = X'-X" — MIN EXIT SEPARATION

SEPARATION LEGEND

HOURLY RATING
0 = 0 HOUR
.5 = 1/2 HOUR
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3 = 3 HOUR
4 = 4 HOUR

FIRE AND SMOKE SEPARATION TYPES
C = CORRIDOR (CYAN)
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VX = VERTICAL EXIT ENCLOSURE (ORANGE)
XP = EXIT PASSAGEWAY (YELLOW)

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REGISTERED ARCHITECT JUSTIN A. [illegible] 23632 STATE OF TEXAS 12/31/2025

ALIEF MIDDLE - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT
4415 COOK ROAD
HOUSTON, TX 77072

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
ADD 5 10-31-25 CLIENT VE
ADD 6 02-11-26 ISSUE FOR BID & PERMIT

39-25156-00

LEVEL 02 - CODE PLAN

CP1.2

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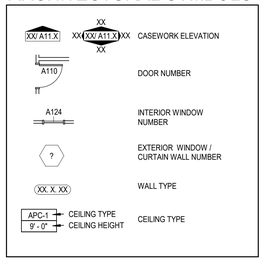
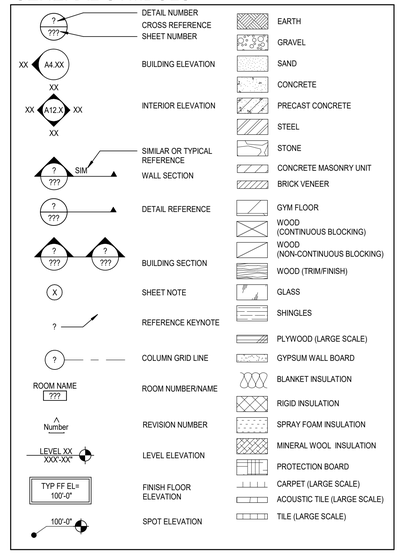
ARCHITECTURAL ABBREVIATIONS

A/E	ARCHITECT/ENGINEER
AB	AIR BARRIER
ABS	ASBESTOS
ACC	ADA ACCESSIBLE
ACR	ACRYLIC
ACT	ACOUSTIC CEILING TILE
AD	ACCESS DOOR
ADJ	ADJUSTABLE
ADJT	ADJACENT
ADMIN	ADMINISTRATION
AEC	AUTOMATED EXTERNAL DEFIBRILLATORS
AL	ALUMINUM
ALUM	ALUMINUM
AP	ACCESS PANEL
APC	ACOUSTIC PANEL CEILING
ASPH	ASPHALT
AUTO	AUTOMATIC
AVG	AVERAGE
AWP	ACOUSTIC WALL PANEL
B.O.	BOTTOM OF
BCS	BABY CHANGING STATION
BD	BOARD
BLK	BLOCK
BLKG	BLOCKING
BLKHD	BULKHEAD
BM(S)	BEAM(S)
BOT	BOTTOM
BRDG	BRIDGING
BRG	BEARING
BRKT	BRACKET
BT	BATHTUB
BTWN	BETWEEN
CAB	CABINET
CBD	CHALKBOARD
CER	CERAMIC
CF	CUBIC FEET
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFMF	COLD-FORMED METAL FRAMING
CG	CLEAR FLOAT GLASS
CGD	CORNER GUARD
CI	CAST IRON
CIG	CLEAR INSULATING GLASS
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CJA	CONTROL JOINT ABOVE
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COM	COMMON
COMB	COMBINATION
COMM	COMMUNICATIONS
COMPR	COMPRESSIBLE
CONF	CONFERENCE
CONFIG	CONFIGURATION
CORR	CORRIDOR
CP	COVER PLATE
CPT	CARPET
CR	CHAIR RAIL
CS	COUNTERSINK
CSTJ	CONSTRUCTION JOINT
CSWK	CASEWORK
CT	CERAMIC TILE
CTG	CLEAR TEMPERED FLOAT GLASS
CTIG	CLEAR TEMPERED INSULATING GLASS
CU	COPPER
CU	COMBINATION UNIT
CV	CONDOM VENDOR
CY	CUBIC YARD
CYL	CYLINDER
DB	DECIBEL
DBL	DOUBLE
DC	DUST COLLECTOR
DEPR	DEPRESS(ION)(ED)
DEPT	DEPARTMENT
DET	DETENTION
DF	DRINKING FOUNTAIN
DG	DOOR GRILLE
DIAG	DIAGONAL
DPFG	DAMPROOFING
DR	DOOR
DSN	DOWNSPOUT NOZZLE
DW	DISHWASHER
DWL(S)	DOWEL(S)
DWR	DRAWER
EB	EXPANSION BOLT
EE	EACH END
EEW	EMERGENCY EYE WASH
EEWS	EMERGENCY EYE WASH SHOWER
EFF	EFFICIENCY
EJ	EXPANSION JOINT
ELAS	ELASTOMERIC
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENTR	ENTRANCE
ERF	EPOXY RESIN FLOORING
EUI	ENERGY USE INTENSITY
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXP	EXPANSION
EXP	EXPOSED
F	FABRIC
F.O.	FACE OF
FAB	FABRICATE(D)
FB	FACE BRICK
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIG	FIGURE
FIX	FIXTURE
FLASH	FLASHING
FLEX	FLEXIBLE
FLG	FLOORING
FLM	FULL LENGTH MIRROR
FLUOR	FLUORESCENT
FO	FINISH OPENING
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FP	FIREPROOFING
FPG	FIRE-PROTECTIVE GLASS
FR	FIRE RESISTANT
FRG	FIRE-RESISTIVE GLASS
FRP	FIBERGLASS REINFORCED PANEL
FRT	FIRE RESISTANCE TREATED
FS	FLOOR SINK
FSS	FOLDING SHOWER SEAT
FTG	FOOTING
FVC	FIRE VALVE CABINET
FWC	FABRIC WALL COVERING
G	GROUT
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GD	GARBAGE DISPOSAL
GEN	GENERAL
GFA	GROSS FLOOR AREA
GL	GLUE LAMINATED
GL	GLASS
GMP	GUARANTEED MAXIMUM PRICE
GR	GUARD RAIL
GR	GRADE
GRS	GALVANIZED RIGID STEEL
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HC	HOLLOW CORE
HD	HAND DRYER
HDF	HIGH DENSITY FIBERBOARD
HDR	HEADER
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HR	HOUR
HR	HANDRAIL
HS	HARDWARE SET
HSS	HOLLOW STRUCTURAL SHAPE
HVAC	HEATING VENTILATING AND AIR CONDITIONING
IAW	IN ACCORDANCE WITH
ID	INSIDE DIAMETER
IF	INSIDE FACE
IIP	INSULATED INFILL PANEL GLASS
IJ	ISOLATION JOINT
IJS	IN JOIST SPACE
INC	INCLUDE(ING)
INSUL	INSULATION
JAN	JANITOR
JBE	JOIST BEARING ELEVATION
JBX	JUNCTION BOX
JCT	JUNCTION
JFB	JOINT FILLER BOARD
JST	JOIST
JT	JOINT
KCJ	KEYED CONSTRUCTION JOINT
KD	KNOCKDOWN
KH	KITCHEN HOOD
KIT	KITCHEN
L	ANGLE
LAB	LABORATORY
LAM	LAMINATED
LAV	LAVATORY
LBR	LUMBER
LDG	LOADING
LF	LINEAR FOOT
LG	LENGTH (LONG)
LG	LAMINATED GLASS
LIN	LINEAR
LINO	LINOLEUM
LKR	LOCKER
LOC	LOCATION
LONG	LONGITUDINAL
LSC	LIFE SAFETY CODE
LTG	LIGHTING
LV	LOUVER
LVT	LUXURY VINYL TILE
MAG	MAGNETIC
MAINT	MAINTENANCE
MAN	MANUAL
MAS	MASONRY
MATL	MATERIAL
MB	MOP BASIN
MBD	MARKER BOARD
MBH	MOP/BROOM HOLDER
MC	MEDICINE CABINET
MEMB	MEMBRANE
MH	MANHOLE
MR/S	MIRROR WITH SHELF
MTD	MOUNTED
MTG	MOUNTING
MUL	MULLION
NC	NOISE CRITERIA
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NOM	NOMINAL
O to O	OUT TO OUT
OA	OVERALL
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OPPOSITE HAND
OPG(S)	OPENING(S)
OSHA	OPERATIONAL SAFETY AND HEALTH ADMINISTRATION
OTB	OPEN TO BELOW
OVFL	OVERFLOW
P	PAINT
PAN B	PANIC BOLT
PB	PARTICLE BOARD
PC	PRECAST CONCRETE
PCD	PAPER CUP DISPENSER
PCT	PORCELAIN CERAMIC TILE
PD	PANIC DEVICE
PERF	PERFORATED
PERP	PERPENDICULAR
PG	PATTERN GLASS
PIC	PORTABLE INSTRUMENT CONNECTION
PIG	PATTERN INSULATING GLASS
PL	PLATE
PL	PROPERTY LINE
PL	PLASTIC LAMINATE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PR	PAIR
PREFAB	PREFABRICATED
PROJ	PROJECT(OR) (ION)
PS	PROJECTION SCREEN
PT	POINT
PT	POINT OF TANGENCY
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PWL	SOUND POWER LEVEL
QGV	QUAD GAS VALVE
QT	QUARRY TILE
QTR RND	QUARTER ROUND
R	RISER
RAD	RADIUS
RB	RUBBER BASE
RC	REMOTE CONTROL
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REFL	REFLECTED
REM	REMOVABLE
RESIL	RESILIENT
RF	RESILIENT FLOORING
RF	RUBBER FLOOR
RFM	RECESSED FLOOR MAT
RH	ROBE HOOK
RI&C	ROUGH IN AND CONNECT
S	SINK
SAT	SPRAYED ACOUSTIC TREATMENT
SAW	SOUND ABSORBING WALL UNITS
SB	SPLASH BLOCK
SC	SOLID CORE
SC	SHOWER CURTAIN
SCD	SEAT COVER DISPENSER
SCH	SHOWER CURTAIN HOOK
SCR	SHOWER CURTAIN ROD
SCT	STRUCTURAL CLAY TILE
SD	SOAP DISPENSER
SECY	SECRETARY
SF	SQUARE FEET
SG	SPANDREL GLASS
SG	SPECIALTY GLASS
SGL	SINGLE
SGV	SINGLE GAS VALVE
SH	SHOWER
SHM	SECURITY HOLLOW METAL
SLNT	SEALANT
SM	SHEET METAL
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SO	SENSOR OPERATED
SPL	SOUND PRESSURE LEVEL
SQ	SQUARE
SR	SURFACE MOUNTED ELECTRICAL RACEWAY
SS	SOLID SURFACE
SSA	STORM SHELTER AREA
SSM	SOLID SURFACE
SSS	STAINLESS STEEL SHELF
SST	STAINLESS STEEL
ST	STONE
ST	STAIR
STAG'D	STAGGERED
STC	SOUND TRANSMISSION CLASS
STGR	STRINGER
SUBFL	SUBFLOOR
SUL	SULPHUR
SURF	SURFACE
SUSP	SUSPENDED
SVF	SHEET VINYL FLOORING
SVF	SERVICE FIXTURE
SVG	SERVICE FIXTURE GROUP
T	TREAD
T&G	TONGUE AND GROOVE
T.O.	TOP OF
TAN	TANGENT
TB	TOWEL BAR
TBD	TACK BOARD
TCP	TOILET COMPARTMENT PARTITION
TERR	TERRAZZO
TFG	TINTED FLOAT GLASS
TG	TEMPERED GLASS
TH	THRESHOLD
THK	THICK(NESS)
TI	TENANT IMPROVEMENT
TIG	TINTED INSULATING GLASS
TMR	TILT MIRROR UNIT
TOIL	TOILET
TOP	TOP OF PAVING
TRANS	TRANSVERSE
TT	TERRAZZO TILE
TTD	TOILET TISSUE DISPENSER
TTG	TINTED TEMPERED FLOAT GLASS
TTIG	TINTED TEMPERED INSULATING GLASS
TW	TACK WALL
UL	UNDERWRITERS LABORATORIES
UR	URINAL
US	UTILITY SHELF
UTIL	UTILITY
VB	VAPOR BARRIER
VB	VINYL BASE
VCB	VENTED COVE BASE
VF	VINYL FLOOR
VOC	VOLITILE ORGANIC COMPOUND
VOL	VOLUME
VP	VENEER PLASTER
VT	VINYL TILE
VWC	VINYL WALL COVERING
W	WIDE
WB	WALL BASE
WC	WATER CLOSET
WC	WALL COVERING
WCL	WATER CLOSET/LAVATORY COMBINATION
WD	WOOD
WDF	WOOD FLOORING
WDW	WINDOW
WG	POLISHED WIRE GLASS
WI	WROUGHT IRON
WOM	WALK OFF MAT
WR	WASTE RECEPTACLE
WRB	WEATHER RESISTANT BARRIER
WW	WARM WHITE
WWF	WELDED WIRE FABRIC
YD	YARD

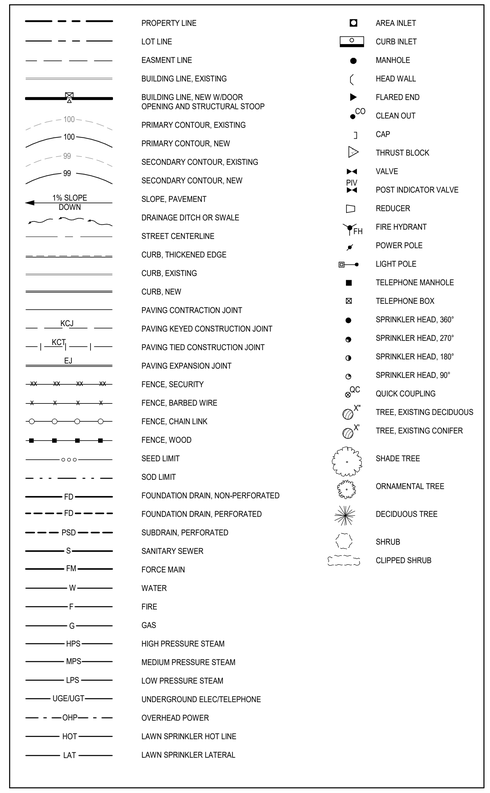
ARCHITECTURAL SYMBOLS



GENERAL SYMBOLS



SITE SYMBOLS



GENERAL NOTES

A. GENERAL NOTES APPLY TO ALL SHEETS.
B. DIMENSIONS ARE ACTUAL AND ARE TO FACE OF STUDS, FACE OF CONCRETE WALLS, FACE OF CMU WALLS, FACE OF FRAMES, OR CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE.
C. NOT USED.
D. INCLUDE ALL OWNER-FURNISHED AND INSTALLED ITEMS AND OWNER-FURNISHED AND CONTRACTOR-INSTALLED ITEMS IN THE CONSTRUCTION SCHEDULE, AND SHALL COORDINATE WITH THE OWNER TO ACCOMMODATE THESE ITEMS.
E. COORDINATE ALL MECHANICAL CHASE SIZES WITH THE MECHANICAL CONTRACTOR.
F. NOT USED.
G. SEE SHEET CP1.2 FOR LOCATION OF WALLS OF FIRE-RESISTANCE-RATED CONSTRUCTION. ALL WALLS OF FIRE-RESISTANCE-RATED CONSTRUCTION SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE.
H. ALL PENETRATIONS THROUGH WALLS SHALL BE SEALED WITH PENETRATION FIRE STOPPING MATERIAL AS REQUIRED TO ACHIEVE THE RESPECTIVE FIRE-RESISTANCE RATING AND SMOKE STOPPAGE. SEE SPECIFICATION SECTION 078413.
I. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS THE SIZE AND LOCATION OF EQUIPMENT PADS SHOWN ON PLANS.
J. FIRE-RESISTANCE-RATED ENCLOSURES AROUND ALL STEEL COLUMNS SHALL BE CONTINUOUS FROM FLOOR TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE FOR EACH LEVEL.
K. CONSTRUCTION DOCUMENTS ARE COMPLEMENTARY. SEE DRAWING FOR QUANTITIES AND LOCATION OF WORK. SEE SPECIFICATIONS FOR QUALITIES AND CONDITIONS OF WORK.
L. WORK: ALL ASPECTS OF THE WORK AND ITEMS NOT SPECIFICALLY MENTIONED, BUT NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED AND INDICATED IN THE CONTRACTOR'S BID.
M. SHEET NOTES ONLY APPLY TO PARTICULAR DRAWING OR SERIES OF DRAWINGS.
N. NO ASBESTOS OR PCB CONTAINING MATERIALS SHALL BE USED ON THIS PROJECT.
O. DO NOT SCALE DRAWINGS. DIMENSIONS NOTED PREVAIL. NOTIFY ARCHITECT IN CASE OF DISCREPANCY.
P. HORIZONTAL AND VERTICAL DIMENSIONS ARE MINIMUM DIMENSIONS. CLEARANCES ARE GIVEN TO FINISH SURFACES. GC TO VERIFY ALL CLEARANCES. NOTIFY ARCHITECT IN CASE OF DISCREPANCY.

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX.X.XX) THUS: SEE SHEET A0.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

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REGISTERED ARCHITECT JUSTIN A. [illegible] 23632 STATE OF TEXAS
12/31/2025

RENOVATIONS

ALIEF MIDDLE - RESTROOM RENO

ALIEF INDEPENDENT SCHOOL DISTRICT
4415 COOK ROAD
HOUSTON, TX 77072

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
ADD 6 02-11-26 ISSUE FOR BID & PERMIT

39-25156-00

GENERAL NOTES, ARCHITECTURAL SYMBOLS & ABBREVIATIONS

A0.1

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TRUE

1 AD1.1 OVERALL DEMOLITION PLAN, LEVEL 1

SCALE: 1/16" = 1'-0"

DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL ENGINEER.
P. WHERE CMU WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING CMU IN TOOTH-IN PATTERN BOTH SIDES OF DEMOLITION FOR CONTRACTOR TO TOOTH-IN NEW CMU PATCHES.
Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

DEMOLITION PLAN LEGEND

- AREA NOT IN CONTRACT (NIC)
- EXISTING PARTITION TO BE DEMOLISHED
- EXISTING PARTITION TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED
- EXISTING DOOR TO REMAIN
- ACOUSTIC CEILING SYSTEM TO BE DEMOLISHED, GRID & TILE
- LIGHT FIXTURE TO BE DEMOLISHED
- EXISTING CEILING MOUNTED LIGHT FIXTURE TO BE DEMOLISHED
- LIGHT FIXTURE TO BE DEMOLISHED
- 5' - 0" DIMENSION (FACE TO FACE, TYPICAL)
- EXISTING FLOOR FINISH TO BE DEMOLISHED

DLRGROUP

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REGISTERED ARCHITECT JUSTIN A. FOX 23632 STATE OF TEXAS 12/31/2025

ALIEF MIDDLE - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT
4415 COOK ROAD
HOUSTON, TX 77072

ISSUE FOR BID & PERMIT
05.06.2025

REVISIONS
ADD 5 10-31-25 CLIENT VE
ADD 6 02-11-26 ISSUE FOR BID & PERMIT
ADD 7 04-06-26 OWNER VE

39-25156-00

OVERALL LEVEL 01 - DEMOLITION PLAN

AD1.1

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N
TRUE

1 AD1.2 OVERALL DEMOLITION PLAN - LEVEL 2
SCALE: 1/16" = 1'-0"

DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS. AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL ENGINEER.
P. WHERE CMU WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING CMU IN TOOTH-IN PATTERN BOTH SIDES OF DEMOLITION FOR CONTRACTOR TO TOOTH-IN NEW CMU PATCHES.
Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

DEMOLITION PLAN LEGEND

- AREA NOT IN CONTRACT (NIC)
- EXISTING PARTITION TO BE DEMOLISHED
- EXISTING PARTITION TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED
- EXISTING DOOR TO REMAIN
- ACOUSTIC CEILING SYSTEM TO BE DEMOLISHED, GRID & TILE
- LIGHT FIXTURE TO BE DEMOLISHED
- EXISTING CEILING MOUNTED LIGHT FIXTURE TO BE DEMOLISHED
- LIGHT FIXTURE TO BE DEMOLISHED
- 5' - 0" DIMENSION (FACE TO FACE, TYPICAL)
- EXISTING FLOOR FINISH TO BE DEMOLISHED

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REGISTERED ARCHITECT JUSTIN A. LEE 23632 STATE OF TEXAS
12/31/2025

ALIEF MIDDLE - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT
4415 COOK ROAD
HOUSTON, TX 77072

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
ADD 5 10-31-25 CLIENT VE
ADD 6 02-11-26 ISSUE FOR BID & PERMIT
ADD 7 04-06-26 OWNER VE

39-25156-00

OVERALL LEVEL 02 - DEMOLITION PLAN

AD1.2

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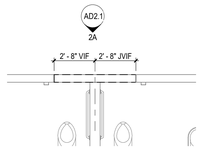
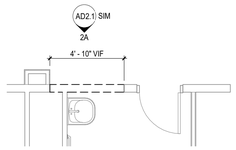
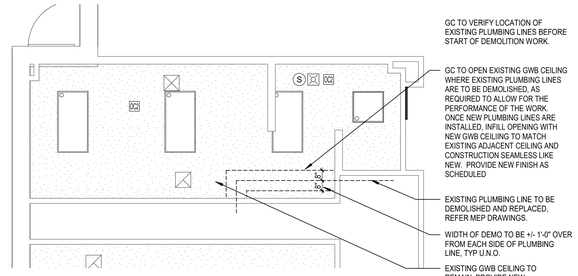


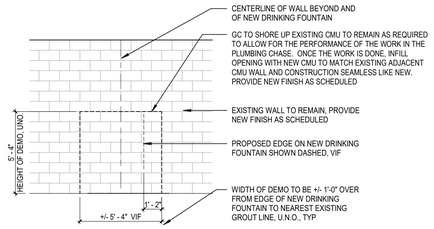
1A AD2.1 DEMOLITION AT WOMEN 176
SCALE: 1/4" = 1'-0"



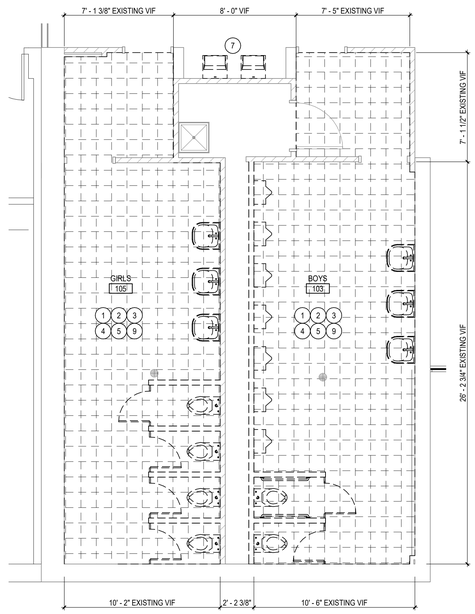
1B AD2.1 DEMOLITION AT TOILET B112
SCALE: 1/4" = 1'-0"



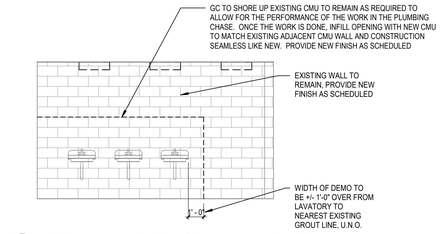
1C AD2.1 TYP ENLARGED RCP @ GWB DEMOLITION
SCALE: 1/4" = 1'-0"



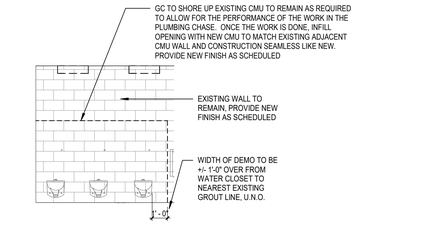
2A AD2.1 DEMO ELEVATION AT WOMEN 176
SCALE: 1/4" = 1'-0"



5A AD2.1 BOYS 103 / GIRLS 105 TOILETS
SCALE: 1/4" = 1'-0"



5C AD2.1 TYP ELEV AT EXISTING LAV WALL DEMO
SCALE: 1/4" = 1'-0"



5D AD2.1 TYP ELEV AT EXISTING WC WALL DEMO
SCALE: 1/4" = 1'-0"

DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS. AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL ENGINEER.
P. WHERE CMU WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING CMU IN TOOTH-IN PATTERN BOTH SIDES OF DEMOLITION FOR CONTRACTOR TO TOOTH-IN NEW CMU PATCHES.
Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

SHEET NOTES

1 GC TO VERIFY EXISTING FLOOR FINISH. IF EXISTING FLOOR FINISH IS TERRAZZO, GC IS TO KEEP EXISTING FLOOR FINISH, DEEP CLEAN, POLISH AND PROTECT IT. IF EXISTING FLOOR FINISH IS NOT TERRAZZO, IT IS TO BE REMOVED AND DISCARDED.
2 EXISTING PLUMBING FIXTURES AND ACCESSORIES, REMOVE AND DISCARD. CAP UNUSED PLUMBING OUT OF SIGHT, REFER PLUMBING DRAWINGS.
3 EXISTING WALL FINISH, REMOVE AND DISCARD. PREP WALL TO RECEIVE NEW FINISHES.
4 EXISTING TOILET PARTITION (AND OR URINAL SCREEN), REMOVE AND DISCARD.
5 EXISTING WALL, REMOVE AND DISCARD TO EXTENTS SHOWN.
7 EXISTING DRINKING FOUNTAIN, REMOVE AND DISCARD.
9 EXISTING CONCRETE CEILING TO REMAIN PROTECT. EXISTING LIGHT FIXTURES AND CEILING ATTACHMENTS, REMOVE AND DISCARD.

DEMOLITION PLAN LEGEND

- AREA NOT IN CONTRACT (NIC)
- EXISTING PARTITION TO BE DEMOLISHED
- EXISTING PARTITION TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED
- EXISTING DOOR TO REMAIN
- ACOUSTIC CEILING SYSTEM TO BE DEMOLISHED, GRID & TILE
- LIGHT FIXTURE TO BE DEMOLISHED
- EXISTING CEILING MOUNTED LIGHT FIXTURE TO BE DEMOLISHED
- LIGHT FIXTURE TO BE DEMOLISHED
- 5' - 0" DIMENSION (FACE TO FACE, TYPICAL)
- EXISTING FLOOR FINISH TO BE DEMOLISHED

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REGISTERED ARCHITECT JUSTIN A. ABRAM 23632 STATE OF TEXAS
12/31/2025

ALIEF MIDDLE - RESTROOM RENOVATIONS
ALIEF INDEPENDENT SCHOOL DISTRICT
4419 COOK ROAD
HOUSTON, TX 77072

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
ADD 5 10-31-25 CLIENT VE
ADD 6 02-11-26 ISSUE FOR BID & PERMIT
ADD 7 04-06-26 OWNER VE

39-25156-00

ENLARGED LEVEL 01 - DEMOLITION PLANS

AD2.1

Autodesk Docs://39-25156-00 Alief ISD restrm renov/39-25156-00 Alief Middle school_AR_2024.rvt
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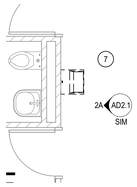
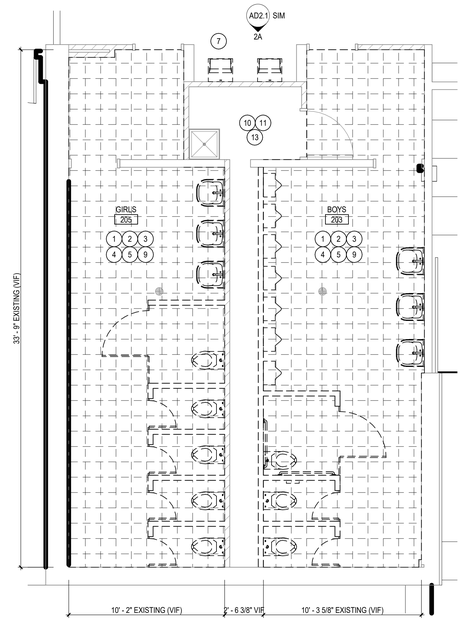
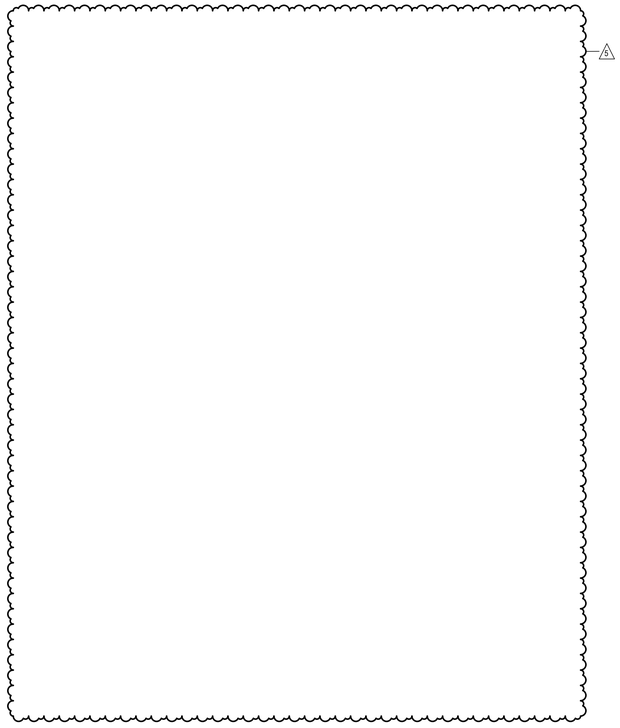


1A / AD2.2 LEVEL 2 - DEMO PLAN GIRLS LOCKER RM
SCALE: 1/4" = 1'-0"



2B / AD2.2 BOYS 203 / GIRLS 205 - TOILETS
SCALE: 1/4" = 1'-0"



DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL ENGINEER.
P. WHERE CMU WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING CMU IN TOOTH-IN PATTERN BOTH SIDES OF DEMOLITION FOR CONTRACTOR TO TOOTH-IN NEW CMU PATCHES.
Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

SHEET NOTES

1 GC TO VERIFY EXISTING FLOOR FINISH. IF EXISTING FLOOR FINISH IS TERRAZZO, GC IS TO KEEP EXISTING FLOOR FINISH, DEEP CLEAN, POLISH AND PROTECT IT. IF EXISTING FLOOR FINISH IS NOT TERRAZZO, IT IS TO BE REMOVED AND DISCARDED.
2 EXISTING PLUMBING FIXTURES AND ACCESSORIES, REMOVE AND DISCARD. CAP UNUSED PLUMBING OUT OF SIGHT, REFER PLUMBING DRAWINGS.
3 EXISTING WALL FINISH, REMOVE AND DISCARD. PREP WALL TO RECEIVE NEW FINISHES.
4 EXISTING TOILET PARTITION (AND OR URINAL SCREEN), REMOVE AND DISCARD.
5 EXISTING WALL, REMOVE AND DISCARD TO EXTENTS SHOWN.
7 EXISTING DRINKING FOUNTAIN, REMOVE AND DISCARD.
9 EXISTING CONCRETE CEILING TO REMAIN PROTECT. EXISTING LIGHT FIXTURES AND CEILING ATTACHMENTS, REMOVE AND DISCARD.
10 EXISTING PLUMBING FIXTURE TO REMAIN, PROTECT.
11 EXISTING HVAC DUCT TO REMAIN, PROTECT.
13 EXISTING ELECTRICAL PANEL TO REMAIN, PROTECT.

DEMOLITION PLAN LEGEND

- AREA NOT IN CONTRACT (NIC)
- EXISTING PARTITION TO BE DEMOLISHED
- EXISTING PARTITION TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED
- EXISTING DOOR TO REMAIN
- ACOUSTIC CEILING SYSTEM TO BE DEMOLISHED, GRID & TILE
- LIGHT FIXTURE TO BE DEMOLISHED
- EXISTING CEILING MOUNTED LIGHT FIXTURE TO BE DEMOLISHED
- LIGHT FIXTURE TO BE DEMOLISHED
- 5' - 0" DIMENSION (FACE TO FACE, TYPICAL)
- EXISTING FLOOR FINISH TO BE DEMOLISHED

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REGISTERED ARCHITECT
JUSTIN A. [illegible]
23632
STATE OF TEXAS
12/31/2025

ALIEF MIDDLE - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT
4415 COOK ROAD
HOUSTON, TX 77072

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39-25156-00

ENLARGED LEVEL 02 - DEMOLITION PLANS

AD2.2

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GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX.X.XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS. I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

N

TRUE

1 A1.1 OVERALL FLOOR PLAN - LEVEL 1

SCALE: 1/16" = 1'-0"

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REGISTERED ARCHITECT JUSTIN ALLRUM 23632 STATE OF TEXAS 12/31/2025

ALIEF MIDDLE - RESTROOM RENOVATIONS

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4415 COOK ROAD
HOUSTON, TX 77072

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LEVEL 01 - OVERALL FLOOR PLAN

A1.1

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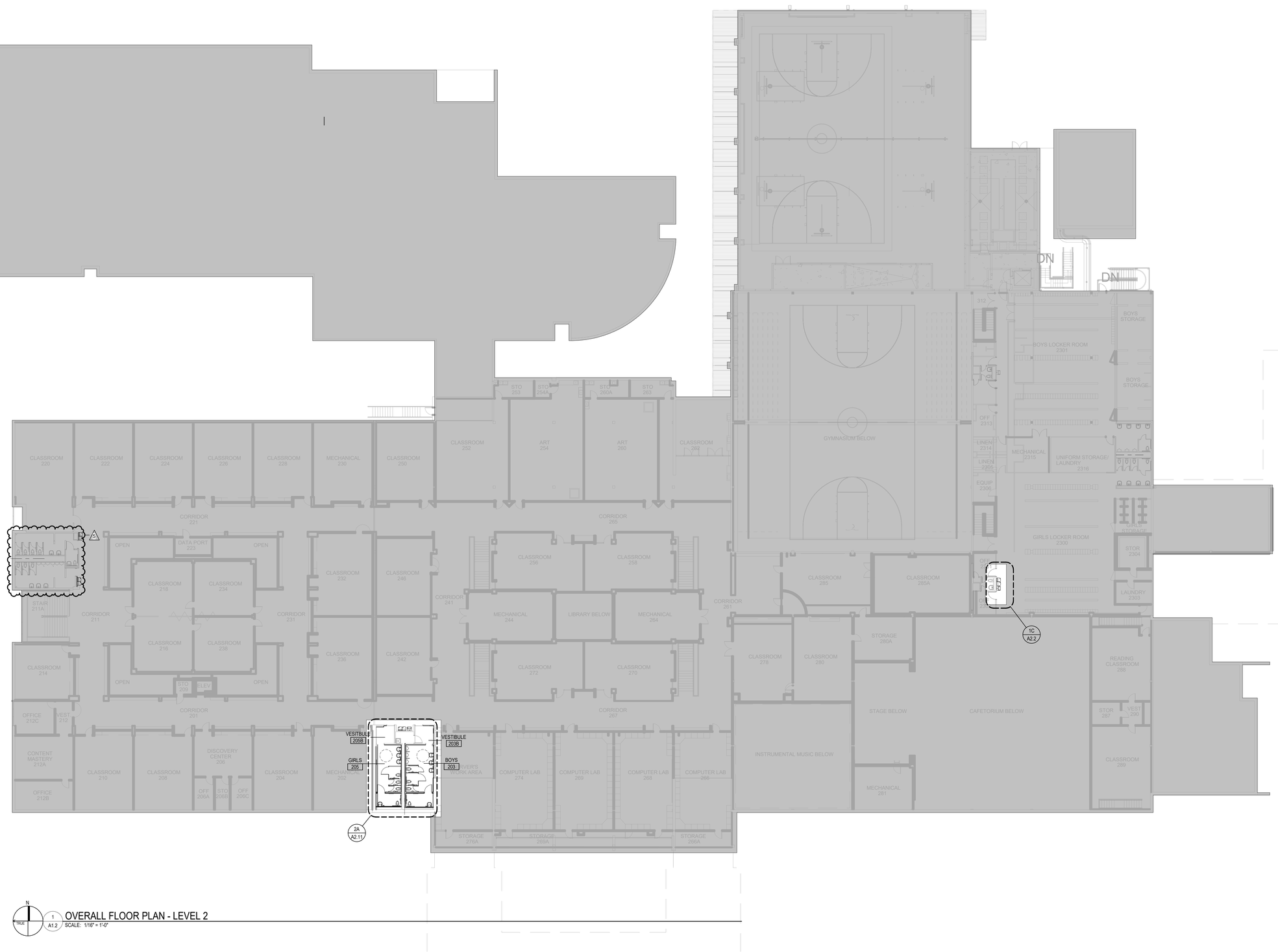

N
TRUE

1 A1.2 OVERALL FLOOR PLAN - LEVEL 2
SCALE: 1/16" = 1'-0"

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX.X.XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS. I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
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9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFERENCE KEYNOTES

SHEET NOTES

1 PERFORM WORK REQUIRED FOR NEW WALL HUNG LAVATORIES AND CLOSE WALL TO MATCH EXISTING ADJACENT WALL CONSTRUCTION SEAMLESS LIKE NEW. PROVIDE NEW FINISH TO MATCH EXISTING ADJACENT FINISH SEAMLESS LIKE NEW.

2 PROVIDE NEW WALL FINISH TO MATCH EXISTING WALL FINISH AND EXTEND FROM TOP OF EXISTING WALL FINISH UP TO BOTTOM OF CEILING ON ALL WALLS.

3 NEW BOTTLE FILLER / DRINKING FOUNTAIN, REFER MEP DRAWINGS.

4 EXISTING SALVAGED, RE-INSTALLED BOTTLE FILLER / DRINKING FOUNTAIN

5 GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.

7 GC TO PROVIDE 1/2" CEMENT BOARD BACKING ON CONTINUOUS 1/4" ALUMINUM Z-CLIP ANCHORS MOUNTED ON EXISTING CMU AND NEW WALLS WHERE CERAMIC TILE FINISH IS TO BE INSTALLED.

8 GC TO PATCH EXISTING WALL, FLOOR AND CEILING WHERE DEMOLITION OCCURED TO MATCH EXISTING ADJACENT WALL, FLOOR AND CEILING CONSTRUCTION AND FINISHES SEAMLESS LIKE NEW.

9 GC TO PROVIDE ADA CANE DETECTION APRON ON HIGH SIDE OF DRINKING FOUNTAIN.

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REGISTERED ARCHITECT JUSTIN A. ABRAM 23632 STATE OF TEXAS
12/31/2025

ALIEF MIDDLE - RESTROOM RENOVATIONS

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LEVEL 02 - OVERALL FLOOR PLAN

A1.2

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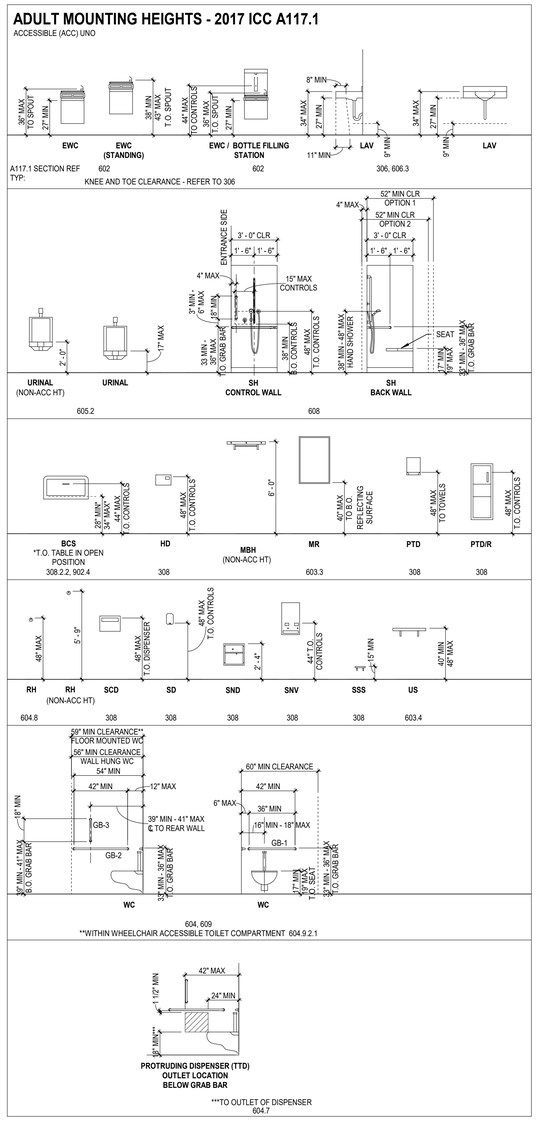

GENERAL NOTES FOR ACCESSIBILITY - 2017 ICC A117.1

A. ACCESSIBLE URINAL SHALL PROVIDE CLEAR FLOOR SPACE PER 605.3.
B. ACCESSIBLE WATER CLOSETS SHALL PROVIDE CLEAR SPACE PER 604.3.
C. ACCESSIBLE LAVATORIES AND SINKS SHALL PROVIDE CLEAR SPACE PER 606.2.
D. ACCESSIBLE TOILET ROOMS IN NEW BUILDINGS SHALL PROVIDE A TURNING SPACE OF 67 INCHES IN DIAMETER PER 304.3.1.1.
E. ACCESSIBLE TOILET ROOMS IN EXISTING BUILDINGS SHALL PROVIDE A TURNING SPACE OF 60 INCHES IN DIAMETER PER 304.3.1.2.
F. ACCESSIBLE DRINKING FOUNTAINS / ELECTRIC WATER COOLERS SHALL PROVIDE CLEAR FLOOR SPACE PER 602.2.1.
G. WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS SHALL COMPLY WITH 604.9.
H. EXPOSED PIPES AND SURFACES UNDER LAVATORIES AND SINKS SHALL BE INSULATED PER 606.6.

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

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REGISTERED ARCHITECT JUSTIN A. LEE 23632 STATE OF TEXAS
12/31/2025

ALIEF MIDDLE - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT
4410 COOK ROAD
HOUSTON, TX 77072

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ACCESSIBILITY MOUNTING HEIGHTS

A2.1

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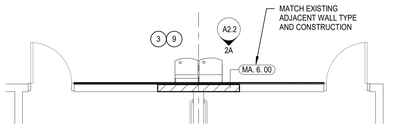
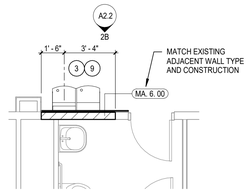
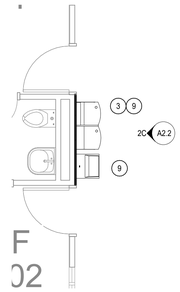


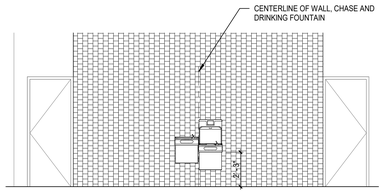
1A A2.2 DRINKING FOUNTAINS AT WOMEN 176
SCALE: 1/4" = 1'-0"



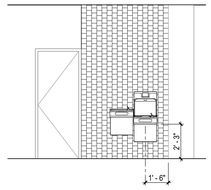
1B A2.2 DF @ TOILET B112
SCALE: 1/4" = 1'-0"



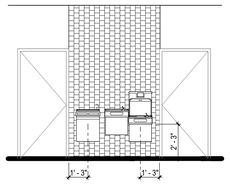
1C A2.2 DF @ GIRLS LOCKER RM 2300
SCALE: 1/4" = 1'-0"



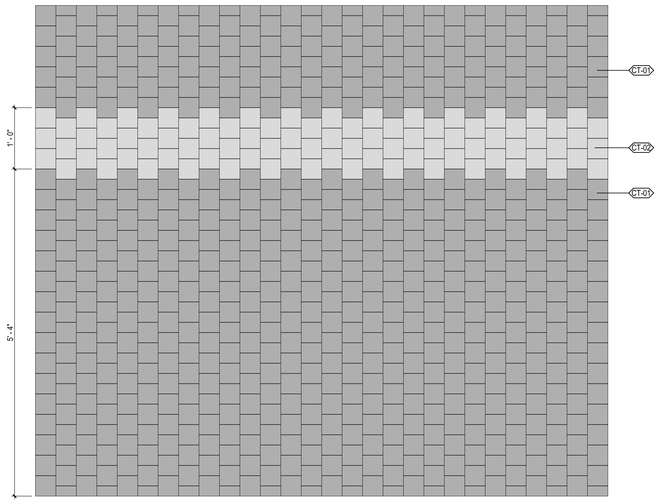
2A A2.2 ELEVATION - DF @ WOMEN 176
SCALE: 1/4" = 1'-0"



2B A2.2 ELEVATION - DF @ TOILET B112
SCALE: 1/4" = 1'-0"



2C A2.2 ELEV @ GIRLS LOCKER ROOM 2300
SCALE: 1/4" = 1'-0"



2D A2.2 TYPICAL WALL TILE PATTERN - RESTROOMS AND DRINKING FOUNTAIN WALLS
SCALE: 1" = 1'-0"

SHEET NOTES

1. PERFORM WORK REQUIRED FOR NEW WALL HUNG LAVATORIES AND CLOSE WALL TO MATCH EXISTING ADJACENT WALL CONSTRUCTION SEAMLESS LIKE NEW. PROVIDE NEW FINISH TO MATCH EXISTING ADJACENT FINISH SEAMLESS LIKE NEW.
2. PROVIDE NEW WALL FINISH TO MATCH EXISTING WALL FINISH AND EXTEND FROM TOP OF EXISTING WALL FINISH UP TO BOTTOM OF CEILING ON ALL WALLS.
3. NEW BOTTLE FILLER / DRINKING FOUNTAIN, REFER MEP DRAWINGS.
4. EXISTING SALVAGED, RE-INSTALLED BOTTLE FILLER / DRINKING FOUNTAIN.
5. GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.
7. GC TO PROVIDE 1/2" CEMENT BOARD BACKING ON CONTINUOUS 1/4" ALUMINUM Z-CLIP ANCHORS MOUNTED ON EXISTING CMU AND NEW WALLS WHERE CERAMIC TILE FINISH IS TO BE INSTALLED.
8. GC TO PATCH EXISTING WALL, FLOOR AND CEILING WHERE DEMOLITION OCCURED TO MATCH EXISTING ADJACENT WALL, FLOOR AND CEILING CONSTRUCTION AND FINISHES SEAMLESS LIKE NEW.
9. GC TO PROVIDE ADA CANE DETECTION APRON ON HIGH SIDE OF DRINKING FOUNTAIN.

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
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EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX_X_XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
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H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
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REFLECTED CEILING PLAN LEGEND

CEILING TYPES

- GWB, GYPSUM BOARD CEILING
- ACT, ACOUSTICAL CEILING TILE
- XXX — CEILING TYPE
- X-XX — CEILING HEIGHT

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F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
I. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
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FINISH PLAN LEGEND

- AREA NOT IN CONTRACT (NIC)
- (NO) — PLAN KEYED NOTE
- CPT / VCT — FLOOR FINISH TRANSITION
- FLOOR MATERIAL DIRECTION
- XX-01 — FINISH MATERIAL TAG
- XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

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REGISTERED ARCHITECT
JUSTIN ABRAM
23632
STATE OF TEXAS
12/31/2025

ALIEF MIDDLE - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT
4415 COOK ROAD
HOUSTON, TX 77072

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
ADD 1 06-16-25 COH COMMENTS
ADD 5 10-31-25 CLIENT VE
ADD 6 02-11-26 ISSUE FOR BID & PERMIT

39-25156-00

ENLARGED FLOOR PLANS & ELEVATIONS

A2.2

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TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
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GB-2	GRAB BAR (SIDE WALL)
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GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
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US	UTILITY SHELF
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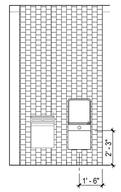

4F / A2.5 BOTTLE FILL. ELEV - HALL B141
SCALE: 1/4" = 1'-0"

SHEET NOTES

1 PERFORM WORK REQUIRED FOR NEW WALL HUNG LAVATORIES AND CLOSE WALL TO MATCH EXISTING ADJACENT WALL CONSTRUCTION SEAMLESS LIKE NEW. PROVIDE NEW FINISH TO MATCH EXISTING ADJACENT FINISH SEAMLESS LIKE NEW.

2 PROVIDE NEW WALL FINISH TO MATCH EXISTING WALL FINISH AND EXTEND FROM TOP OF EXISTING WALL FINISH UP TO BOTTOM OF CEILING ON ALL WALLS.

3 NEW BOTTLE FILLER / DRINKING FOUNTAIN, REFER MEP DRAWINGS.

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5 GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.

7 GC TO PROVIDE 1/2" CEMENT BOARD BACKING ON CONTINUOUS 1/4" ALUMINUM Z-CLIP ANCHORS MOUNTED ON EXISTING CMU AND NEW WALLS WHERE CERAMIC TILE FINISH IS TO BE INSTALLED.

8 GC TO PATCH EXISTING WALL, FLOOR AND CEILING WHERE DEMOLITION OCCURED TO MATCH EXISTING ADJACENT WALL, FLOOR AND CEILING CONSTRUCTION AND FINISHES SEAMLESS LIKE NEW.

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FINISH PLAN LEGEND

AREA NOT IN CONTRACT (NIC)
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CPT / VCT — FLOOR FINISH TRANSITION
FLOOR MATERIAL DIRECTION
XX-01 — FINISH MATERIAL TAG
XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

DLR GROUP
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REGISTERED ARCHITECT JUSTIN A. TAYLOR 23632 STATE OF TEXAS
12/31/2025

ALIEF MIDDLE - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT
4415 COOK ROAD
HOUSTON, TX 77072

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
ADD 1 06-16-25 COH COMMENTS
ADD 2 08-05-25 TAS COMMENTS
ADD 5 10-31-25 CLIENT VE
ADD 6 02-11-26 ISSUE FOR BID & PERMIT
ADD 7 04-06-26 OWNER VE

39-25156-00

ENLARGED FLOOR PLANS & ELEVATIONS

A2.5

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TOILET ACCESSORIES ABBREVIATIONS

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N. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

- AREA NOT IN CONTRACT (NIC)
- (NO) — PLAN KEYED NOTE
- CPT / VCT — FLOOR FINISH TRANSITION
- FLOOR MATERIAL DIRECTION
- XX-01 — FINISH MATERIAL TAG
- XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

DLR GROUP
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REGISTERED ARCHITECT JUSTIN T. ALEXANDER 23632 STATE OF TEXAS
12/31/2026

ALIEF MIDDLE - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT
4415 COOK ROAD
HOUSTON, TX 77072

ISSUE FOR BID & PERMIT
05.06.2025

REVISIONS

ADD 1	06-16-25	COH COMMENTS
ADD 2	08-05-25	TAS COMMENTS
ADD 5	10-31-25	CLIENT VE
ADD 6	02-11-26	ISSUE FOR BID & PERMIT
ADD 7	04-06-26	OWNER VE

39-25156-00

ENLARGED FLOOR PLANS & ELEVATIONS

A2.6

Autodesk Docs://39-25156-00 Alief ISD restrm reno/39-25156-00 Alief Middle school_AR_2024.rvt
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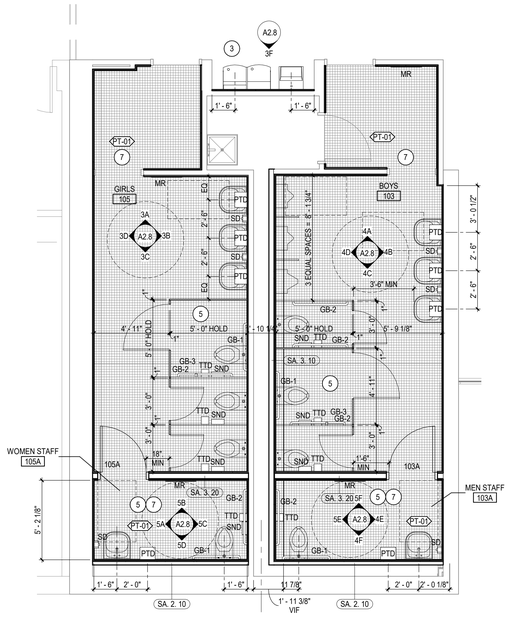
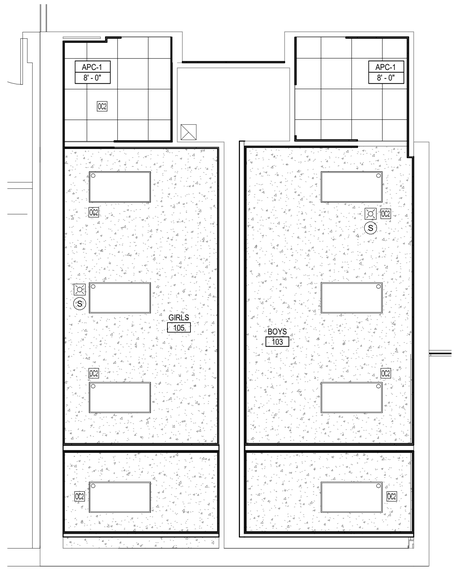
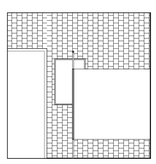


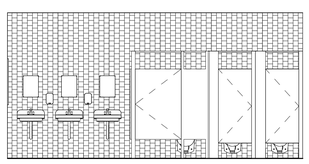
2A A2.8 ENLARGED FLOOR PLAN - BOYS 103 / GIRLS 105
SCALE: 1/4" = 1'-0"



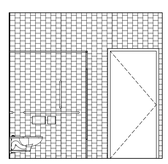
2C A2.8 ENLARGED RCP - BOYS 103 / GIRLS 105
SCALE: 1/4" = 1'-0"



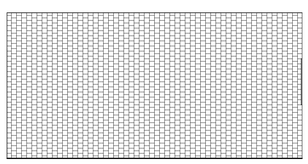
3A A2.8 105 - GIRLS - NORTH
SCALE: 1/4" = 1'-0"



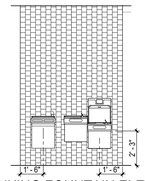
3B A2.8 105 - GIRLS - EAST
SCALE: 1/4" = 1'-0"



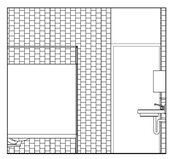
3C A2.8 105 - GIRLS - SOUTH
SCALE: 1/4" = 1'-0"



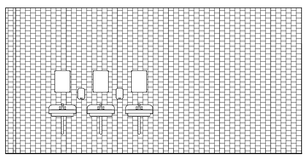
3D A2.8 105 - GIRLS - WEST
SCALE: 1/4" = 1'-0"



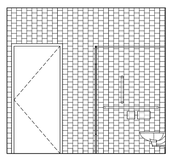
3F A2.8 DRINKING FOUNTAIN ELEV - 103 105
SCALE: 1/4" = 1'-0"



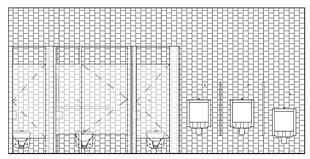
4A A2.8 103 - BOYS - NORTH
SCALE: 1/4" = 1'-0"



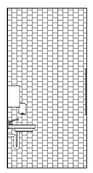
4B A2.8 103 - BOYS - EAST
SCALE: 1/4" = 1'-0"



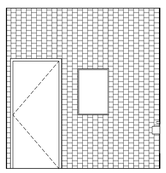
4C A2.8 103 - BOYS - SOUTH
SCALE: 1/4" = 1'-0"



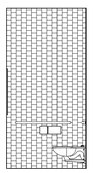
4D A2.8 103 - BOYS - WEST
SCALE: 1/4" = 1'-0"



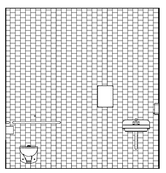
5A A2.8 WOMEN STAFF - WEST
SCALE: 1/4" = 1'-0"



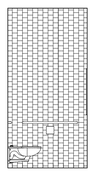
5B A2.8 WOMEN STAFF - NORTH
SCALE: 1/4" = 1'-0"



5C A2.8 WOMEN STAFF - EAST
SCALE: 1/4" = 1'-0"



5D A2.8 WOMEN STAFF - SOUTH
SCALE: 1/4" = 1'-0"



5E A2.8 MEN STAFF - WEST
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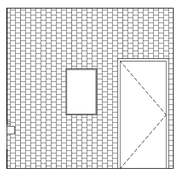
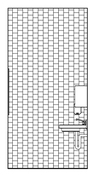
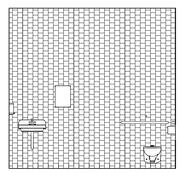


5F A2.8 MEN STAFF - NORTH
SCALE: 1/4" = 1'-0"



4E A2.8 MEN STAFF - EAST
SCALE: 1/4" = 1'-0"



4F A2.8 MEN STAFF - SOUTH
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

SHEET NOTES

1 PERFORM WORK REQUIRED FOR NEW WALL HUNG LAVATORIES AND CLOSE WALL TO MATCH EXISTING ADJACENT WALL CONSTRUCTION SEAMLESS LIKE NEW. PROVIDE NEW FINISH TO MATCH EXISTING ADJACENT FINISH SEAMLESS LIKE NEW.

2 PROVIDE NEW WALL FINISH TO MATCH EXISTING WALL FINISH AND EXTEND FROM TOP OF EXISTING WALL FINISH UP TO BOTTOM OF CEILING ON ALL WALLS.

3 NEW BOTTLE FILLER / DRINKING FOUNTAIN, REFER MEP DRAWINGS.

4 EXISTING SALVAGED, RE-INSTALLED BOTTLE FILLER / DRINKING FOUNTAIN

5 GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.

7 GC TO PROVIDE 1/2" CEMENT BOARD BACKING ON CONTINUOUS 1/4" ALUMINUM Z-CLIP ANCHORS MOUNTED ON EXISTING CMU AND NEW WALLS WHERE CERAMIC TILE FINISH IS TO BE INSTALLED.

8 GC TO PATCH EXISTING WALL, FLOOR AND CEILING WHERE DEMOLITION OCCURED TO MATCH EXISTING ADJACENT WALL, FLOOR AND CEILING CONSTRUCTION AND FINISHES SEAMLESS LIKE NEW.

9 GC TO PROVIDE ADA CANE DETECTION APRON ON HIGH SIDE OF DRINKING FOUNTAIN.

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX_X_XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS: I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

ACT, ACOUSTICAL CEILING TILE

XXX — CEILING TYPE
X-XX — CEILING HEIGHT

INTERIOR FINISH PLAN GENERAL NOTES

A. FINISH SCHEDULE GENERAL NOTES APPLY TO ALL FINISH SCHEDULE SHEETS.
B. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
C. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS.
D. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED.
E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
I. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
J. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
K. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR, UNO.
L. NOT USED.
M. NOT USED.
N. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

AREA NOT IN CONTRACT (NIC)
NG — PLAN KEYED NOTE
CPT / VCT — FLOOR FINISH TRANSITION
FLOOR MATERIAL DIRECTION
XX-01 — FINISH MATERIAL TAG
XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

DLR GROUP
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REGISTERED ARCHITECT JUSTIN A. ALBRIGHT 23632 STATE OF TEXAS
12/31/2025

ALIEF MIDDLE - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT
4415 COOK ROAD
HOUSTON, TX 77072

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
ADD 1 06-16-25 CCH COMMENTS
ADD 2 08-05-25 TAS COMMENTS
ADD 5 10-31-25 CLIENT VE
ADD 6 02-11-26 ISSUE FOR BID & PERMIT

39-25156-00

ENLARGED FLOOR PLANS & ELEVATIONS

A2.8

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TOILET ACCESSORIES ABBREVIATIONS

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PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
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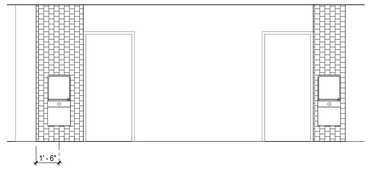
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE



3E A2.9 DRINKING FOUNTAIN ELEVATION AT 119 / 121
SCALE: 1/4" = 1'-0"

SHEET NOTES

1. PERFORM WORK REQUIRED FOR NEW WALL HUNG LAVATORIES AND CLOSE WALL TO MATCH EXISTING ADJACENT WALL CONSTRUCTION SEAMLESS LIKE NEW. PROVIDE NEW FINISH TO MATCH EXISTING ADJACENT FINISH SEAMLESS LIKE NEW.
2. PROVIDE NEW WALL FINISH TO MATCH EXISTING WALL FINISH AND EXTEND FROM TOP OF EXISTING WALL FINISH UP TO BOTTOM OF CEILING ON ALL WALLS.
3. NEW BOTTLE FILLER / DRINKING FOUNTAIN, REFER MEP DRAWINGS.
4. EXISTING SALVAGED, RE-INSTALLED BOTTLE FILLER / DRINKING FOUNTAIN
5. GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.
7. GC TO PROVIDE 1/2" CEMENT BOARD BACKING ON CONTINUOUS 1/4" ALUMINUM Z-CLIP ANCHORS MOUNTED ON EXISTING CMU AND NEW WALLS WHERE CERAMIC TILE FINISH IS TO BE INSTALLED.
8. GC TO PATCH EXISTING WALL, FLOOR AND CEILING WHERE DEMOLITION OCCURED TO MATCH EXISTING ADJACENT WALL, FLOOR AND CEILING CONSTRUCTION AND FINISHES SEAMLESS LIKE NEW.
9. GC TO PROVIDE ADA CANE DETECTION APRON ON HIGH SIDE OF DRINKING FOUNTAIN.

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX_X.XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFLECTED CEILING PLAN LEGEND

CEILING TYPES

- GWB, GYPSUM BOARD CEILING
- ACT, ACOUSTICAL CEILING TILE
- XXX / X-XX — CEILING TYPE / CEILING HEIGHT

INTERIOR FINISH PLAN GENERAL NOTES

A. FINISH SCHEDULE GENERAL NOTES APPLY TO ALL FINISH SCHEDULE SHEETS.
B. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
C. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS.
D. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED.
E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
I. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
J. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
K. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR, UNO.
L. NOT USED.
M. NOT USED.
N. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

- AREA NOT IN CONTRACT (NIC)
- (NO) — PLAN KEYED NOTE
- CPT / VCT — FLOOR FINISH TRANSITION
- FLOOR MATERIAL DIRECTION
- XX-01 — FINISH MATERIAL TAG
- XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

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REGISTERED ARCHITECT JUSTIN A. TAYLOR 23632 STATE OF TEXAS
12/31/2025

ALIEF MIDDLE - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT
4415 COOK ROAD
HOUSTON, TX 77072

ISSUE FOR BID & PERMIT
05.06.2025

REVISIONS
ADD 1 06-16-25 COH COMMENTS
ADD 2 08-05-25 TAS COMMENTS
ADD 6 02-11-26 ISSUE FOR BID & PERMIT
ADD 7 04-06-26 OWNER VE

39-25156-00

ENLARGED FLOOR PLANS & ELEVATIONS

A2.9

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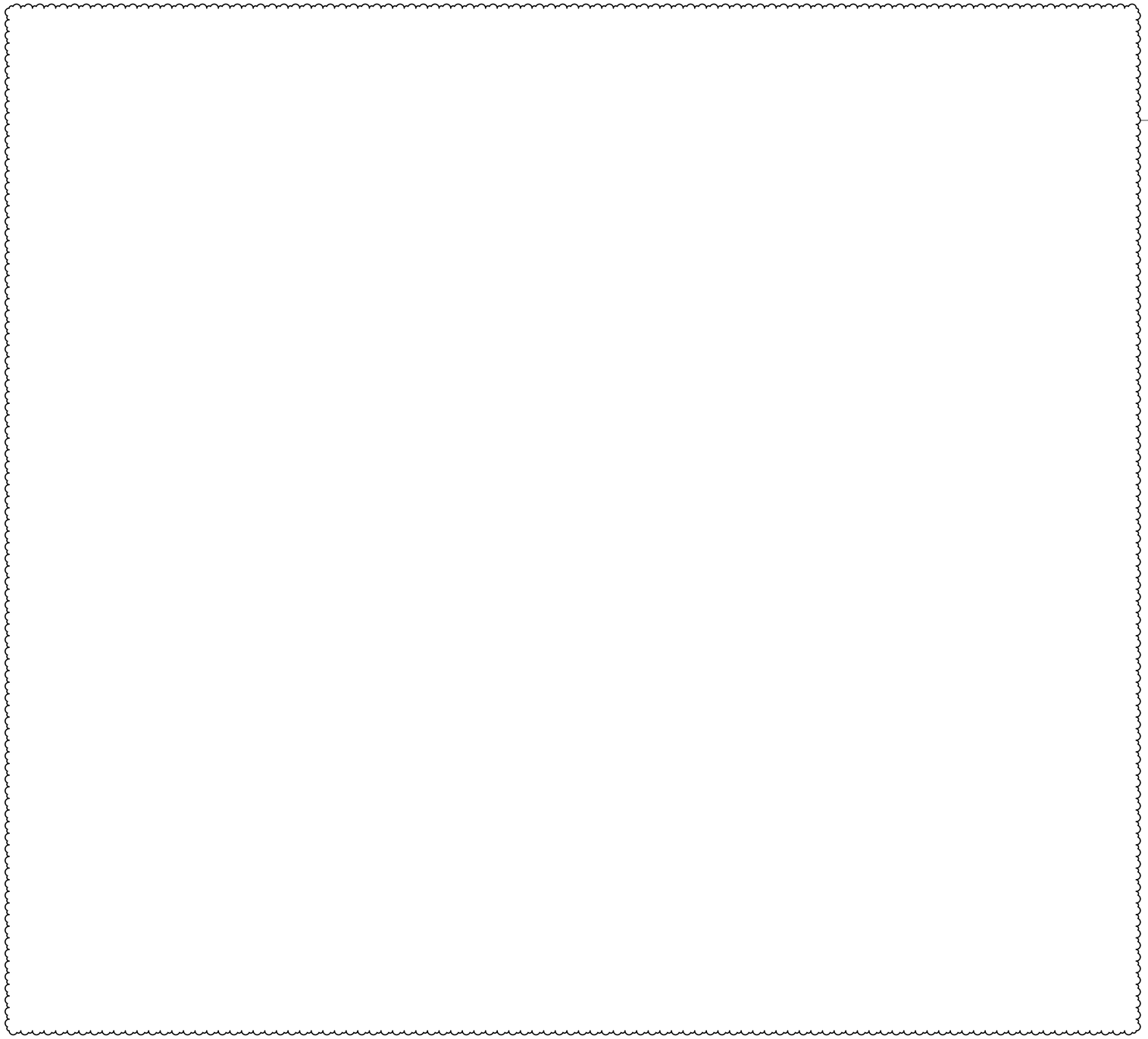
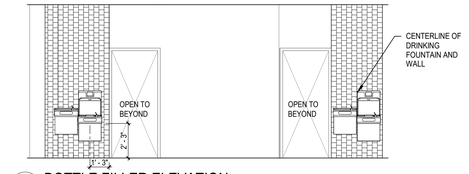


TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE



3E / A2.10 BOTTLE FILLER ELEVATION
SCALE: 1/4" = 1'-0"

SHEET NOTES

1 PERFORM WORK REQUIRED FOR NEW WALL HUNG LAVATORIES AND CLOSE WALL TO MATCH EXISTING ADJACENT WALL CONSTRUCTION SEAMLESS LIKE NEW. PROVIDE NEW FINISH TO MATCH EXISTING ADJACENT FINISH SEAMLESS LIKE NEW.

2 PROVIDE NEW WALL FINISH TO MATCH EXISTING WALL FINISH AND EXTEND FROM TOP OF EXISTING WALL FINISH UP TO BOTTOM OF CEILING ON ALL WALLS.

3 NEW BOTTLE FILLER / DRINKING FOUNTAIN, REFER MEP DRAWINGS.

4 EXISTING SALVAGED, RE-INSTALLED BOTTLE FILLER / DRINKING FOUNTAIN

5 GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.

7 GC TO PROVIDE 1/2" CEMENT BOARD BACKING ON CONTINUOUS 1/4" ALUMINUM Z-CLIP ANCHORS MOUNTED ON EXISTING CMU AND NEW WALLS WHERE CERAMIC TILE FINISH IS TO BE INSTALLED.

8 GC TO PATCH EXISTING WALL, FLOOR AND CEILING WHERE DEMOLITION OCCURED TO MATCH EXISTING ADJACENT WALL, FLOOR AND CEILING CONSTRUCTION AND FINISHES SEAMLESS LIKE NEW.

9 GC TO PROVIDE ADA CANE DETECTION APRON ON HIGH SIDE OF DRINKING FOUNTAIN.

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX.X.XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
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11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
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FINISH PLAN LEGEND

AREA NOT IN CONTRACT (NIC)
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CPT / VCT — FLOOR FINISH TRANSITION
FLOOR MATERIAL DIRECTION
XX-01 — FINISH MATERIAL TAG
XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

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REGISTERED ARCHITECT JUSTIN A. TAYLOR 23632 STATE OF TEXAS
12/31/2025

ALIEF MIDDLE - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT
4415 COOK ROAD
HOUSTON, TX 77072

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
ADD 1 06-16-25 COH COMMENTS
ADD 2 08-05-25 TAS COMMENTS
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39-25156-00

ENLARGED FLOOR PLANS & ELEVATIONS

A2.10

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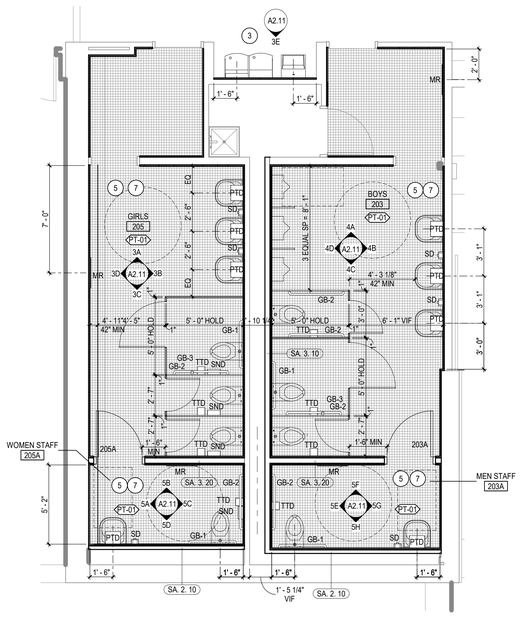
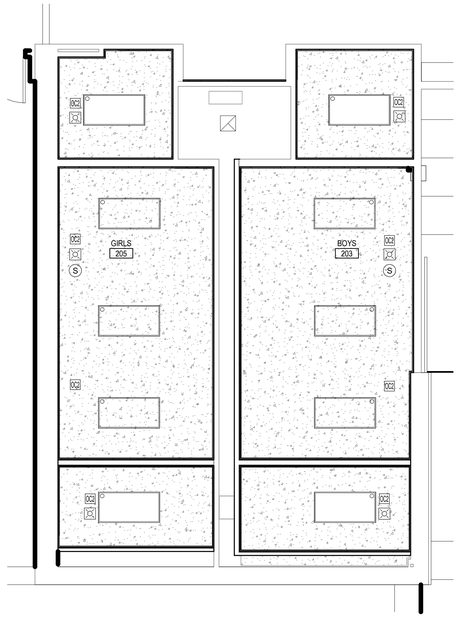
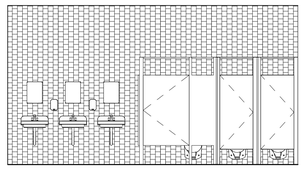


2A A2.11 ENLARGED FLOOR PLAN - BOYS 203 / GIRLS 205
SCALE: 1/4" = 1'-0"



2C A2.11 ENLARGED RCP - BOYS 203 / GIRLS 205
SCALE: 1/4" = 1'-0"

3A A2.11 205 - GIRLS - NORTH
SCALE: 1/4" = 1'-0"



3B A2.11 205 - GIRLS - EAST
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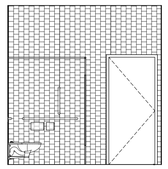

3C A2.11 205 - GIRLS - SOUTH
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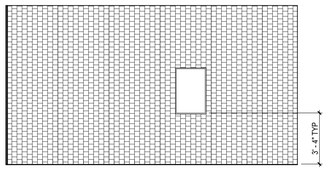

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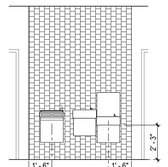

3E A2.11 ELEVATION AT BOTTLE FILLER
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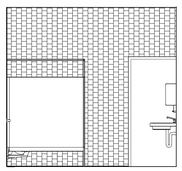

4A A2.11 203 - BOYS - NORTH
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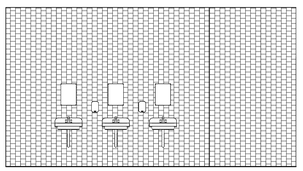

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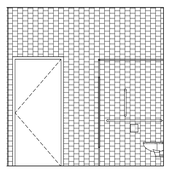
SCALE: 1/4" = 1'-0"



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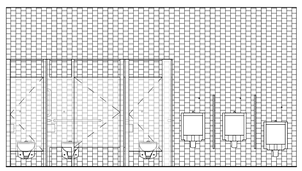
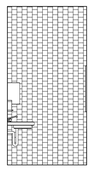
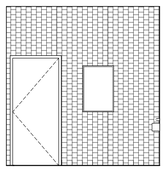


4D A2.11 203 - BOYS - WEST
SCALE: 1/4" = 1'-0"



5A A2.11 WOMEN STAFF - WEST
SCALE: 1/4" = 1'-0"



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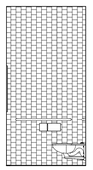

5C A2.11 WOMEN STAFF - EAST
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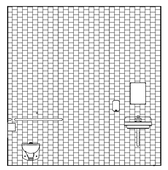

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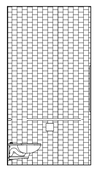

5E A2.11 MEN STAFF - WEST
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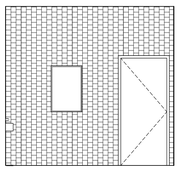
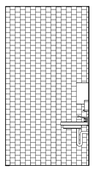
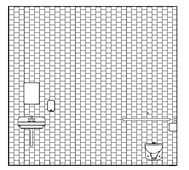


5F A2.11 MEN STAFF - NORTH
SCALE: 1/4" = 1'-0"



5G A2.11 MEN STAFF - EAST
SCALE: 1/4" = 1'-0"



5H A2.11 MEN STAFF - SOUTH
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

SHEET NOTES

1 PERFORM WORK REQUIRED FOR NEW WALL HUNG LAVATORIES AND CLOSE WALL TO MATCH EXISTING ADJACENT WALL CONSTRUCTION SEAMLESS LIKE NEW. PROVIDE NEW FINISH TO MATCH EXISTING ADJACENT FINISH SEAMLESS LIKE NEW.

2 PROVIDE NEW WALL FINISH TO MATCH EXISTING WALL FINISH AND EXTEND FROM TOP OF EXISTING WALL FINISH UP TO BOTTOM OF CEILING ON ALL WALLS.

3 NEW BOTTLE FILLER / DRINKING FOUNTAIN, REFER MEP DRAWINGS.

4 EXISTING SALVAGED, RE-INSTALLED BOTTLE FILLER / DRINKING FOUNTAIN

5 GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.

7 GC TO PROVIDE 1/2" CEMENT BOARD BACKING ON CONTINUOUS 1/4" ALUMINUM Z-CLIP ANCHORS MOUNTED ON EXISTING CMU AND NEW WALLS WHERE CERAMIC TILE FINISH IS TO BE INSTALLED.

8 GC TO PATCH EXISTING WALL, FLOOR AND CEILING WHERE DEMOLITION OCCURED TO MATCH EXISTING ADJACENT WALL, FLOOR AND CEILING CONSTRUCTION AND FINISHES SEAMLESS LIKE NEW.

9 GC TO PROVIDE ADA CANE DETECTION APRON ON HIGH SIDE OF DRINKING FOUNTAIN.

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX_X_XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS: I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

ACT, ACOUSTICAL CEILING TILE

XXX — CEILING TYPE
X-XX — CEILING HEIGHT

INTERIOR FINISH PLAN GENERAL NOTES

A. FINISH SCHEDULE GENERAL NOTES APPLY TO ALL FINISH SCHEDULE SHEETS.
B. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
C. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS.
D. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED.
E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
I. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
J. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
K. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR, UNO.
L. NOT USED.
M. NOT USED.
N. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

AREA NOT IN CONTRACT (NIC)
(NO) PLAN KEYED NOTE
CPT VCT FLOOR FINISH TRANSITION
FLOOR MATERIAL DIRECTION
XX-01 FINISH MATERIAL TAG
XX-01 EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

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REGISTERED ARCHITECT JUSTIN A. FOX 23632 STATE OF TEXAS 12/31/2025

ALIEF MIDDLE - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT
4415 COOK ROAD
HOUSTON, TX 77072

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
ADD 1 06-16-25 CCH COMMENTS
ADD 2 08-05-25 TAS COMMENTS
ADD 5 10-31-25 CLIENT VE
ADD 6 02-11-26 ISSUE FOR BID & PERMIT

39-25156-00

ENLARGED FLOOR PLANS & ELEVATIONS

A2.11

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N
TRUE

5A
A3.1

OVERALL REFLECTED CEILING PLAN, LEVEL 1
SCALE: 1/16" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

SHEET NOTES

1 PAINT CONDUIT TO MATCH CEILING.

DLRGROUP
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REGISTERED ARCHITECT
JUSTIN A. ALLEN
23632
STATE OF TEXAS
12/31/2026

ALIEF MIDDLE - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT
4415 COOK ROAD
HOUSTON, TX 77072

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
ADD 5 10-31-25 CLIENT VE
ADD 6 02-11-26 ISSUE FOR BID & PERMIT
ADD 7 04-06-26 OWNER VE

39-25156-00

LEVEL 01 - OVERALL - REFLECTED CEILING PLAN

A3.1

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REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
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E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
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   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
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SHEET NOTES

1 PAINT CONDUIT TO MATCH CEILING.

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REGISTERED ARCHITECT JUSTIN A. LA BRUM 23632 STATE OF TEXAS
12/31/2025

ALIEF MIDDLE - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT
4415 COOK ROAD
HOUSTON, TX 77072

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
ADD 6 02-11-26 ISSUE FOR BID & PERMIT
ADD 7 04-06-26 OWNER VE

39-25156-00

LEVEL 02 - OVERALL REFLECTED CEILING PLAN

A3.2

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DOOR AND FRAME SCHEDULE

NUMBER	PANEL NO. OF PANELS	PANEL WIDTH	PANEL HEIGHT	PANEL THICKNESS	PANEL MATERIAL	PANEL GLASS	PANEL TYPE	FRAME MATERIAL	FRAME TYPE	FIRE RATING	HARDWARE SET	DETAILS HEAD	DETAILS JAMB LEFT	DETAILS JAMB RIGHT	DETAILS SILL	COMMENTS
103A	1	3' - 0"	7' - 0"	1 3/4"	HM			HM			341-STF	2A/A8.2	3A/A8.2	3A/A8.2	4A/A8.2	DOOR PLAM TO MATCH EXISTING
105A	1	3' - 0"	7' - 0"	1 3/4"	HM			HM			341-STF	2A/A8.2	3A/A8.2	3A/A8.2	4A/A8.2	DOOR PLAM TO MATCH EXISTING
203A	1	3' - 0"	7' - 0"	1 3/4"	HM			HM			341-STF	2A/A8.2	3A/A8.2	3A/A8.2	4A/A8.2	DOOR PLAM TO MATCH EXISTING
205A	1	3' - 0"	7' - 0"	1 3/4"	HM			HM			341-STF	2A/A8.2	3A/A8.2	3A/A8.2	4A/A8.2	DOOR PLAM TO MATCH EXISTING

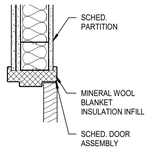
NOTE:
GC TO PAINT ALL DOOR FRAMES AND CASED OPENINGS TOUCHED BY THIS RENOVATION PROJECT (EXISTING OR NEW), TO MATCH ADJACENT WALL COLOR.

GC TO FIELD VERIFY EXISTING DOOR OPENINGS AND COORDINATE NEW OPENINGS WITH EXISTING.

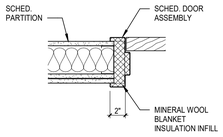
HARDWARE SCHEDULE (REFER SPEC)

HARDWARE GROUP NO. 341-STF - SGL PRIV RR W/ INDICATOR (STAFF)
For use on Door #(s):
PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

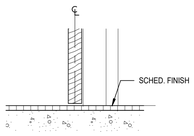
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	SBB1 4.5 X 4.5	630	IVE
1 EA	HOTEL GUEST LOCK	MA451H OCCUPIED/VACANT QNM	626	FAL
1 EA	FALCON SFIC CORE	CB807	626	FAL
1 EA	SURFACE CLOSER	4040XP RW/PA/EDA TBSRT X MTG BRKT, SPCR & PLATE AS REQ	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	WALL STOP	WS406/407CCV	630	IVE
1 EA	GASKETING	488SBK PSA H & J	BK	ZER



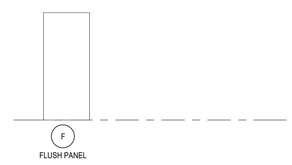
2A / A8.2 HM DOOR HEAD
SCALE: 1 1/2" = 1'-0"



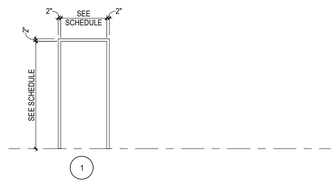
3A / A8.2 HM DOOR JAMB
SCALE: 1 1/2" = 1'-0"



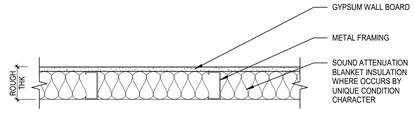
4A / A8.2 HM DOOR SILL
SCALE: 1 1/2" = 1'-0"



DOOR PANEL TYPES

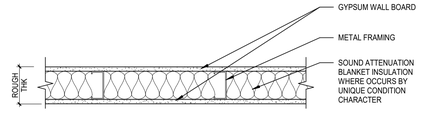


INTERIOR FRAME TYPES



S_-_-1_ NON-RATED STUD PARTITION

MARK			ROUGH THICKNESS	FIRE/SMOKE RATING	FIRE/SMOKE TESTED ASSEMBLIES	SOUND STC RATING	SOUND TESTED ASSEMBLIES	T.O. WALL DETAIL	B.O. WALL DETAIL	COMMENTS
SA	2	10	3 1/8"	NR	NA					
SA	3	10	4 1/4"	NR	NA					



S_-_-2_ NON-RATED STUD PARTITION

MARK			ROUGH THICKNESS	FIRE/SMOKE RATING	FIRE/SMOKE TESTED ASSEMBLIES	SOUND STC RATING	SOUND TESTED ASSEMBLIES	T.O. WALL DETAIL	B.O. WALL DETAIL	COMMENTS
SA	2	20	3 3/4"	NR	NA					
SA	3	20	4 7/8"	NR	NA					

DOOR AND FRAME SCHEDULE GENERAL NOTES

A. ALL EXTERIOR HOLLOW METAL FRAMES SHALL BE FILLED WITH INSULATION.
B. ALL INTERIOR HOLLOW METAL FRAMES SET IN MASONRY AND CONCRETE WALLS SHALL BE GROUTED SOLID.
C. ALL HOLLOW METAL FRAMES SET IN METAL STUD WALLS SHALL BE FILLED WITH MINERAL WOOL BLANKET INSULATION.
D. ALL EXTERIOR FRAMES SHALL BE INSTALLED WITH 1/4" SHIM AND SEALANT AROUND PERIMETER OF FRAME.
E. MASONRY LINTELS AND STEEL LINTELS ARE SHOWN ON STRUCTURAL DRAWINGS.
F. GLASS TYPES FOR DOORS ARE INDICATED IN THE DOOR GLAZING COLUMN OF THE DOOR AND FRAME SCHEDULE. GLASS TYPES FOR FRAMES ARE INDICATED ON THE FRAME ELEVATIONS.
G. FOR COILING DOORS, GRILLES AND SECTIONAL DOORS, WIDTH AND HEIGHT DIMENSIONS SHOWN IN DOOR AND FRAME SCHEDULE REPRESENT FINISHED OPENING SIZE. CONTRACTOR TO COORDINATE EXACT SIZE OF DOOR WITH MANUFACTURER.
H. FRAME MANUFACTURER SHALL COORDINATE LOCATIONS OF ALL CONCEALED CONDUIT AND J-BOXES REQUIRED FOR SECURITY SYSTEM HARDWARE PRIOR TO MANUFACTURING OF HOLLOW METAL FRAMES AND COORDINATE WITH SECURITY HARDWARE AND DEVICES.
I. PROVIDE HEAD RECEIVERS AT ALUMINUM STOREFRONTS AND CURTAIN WALLS AS REQUIRED FOR STRUCTURAL DEFLECTION ALLOWANCE.
J. SEE SPECIFICATIONS HARDWARE SECTION FOR HARDWARE SETS NOTED IN DOOR AND FRAME SCHEDULE.

DOOR PANEL TYPE DESCRIPTIONS

DG DUAL LITE GLASS
F FLUSH PANEL
FG FULL LITE GLASS
FL FULL LOUVERED
G HALF LITE GLASS
GL HALF LITE GLASS & LOUVERED
L LOUVERED (BOTTOM)
LL LOUVERED (TOP & BOTTOM)
N NARROW LITE GLASS
NL NARROW LITE GLASS & LOUVERED
TL LOUVERED (TOP)
V VISION LITE GLASS (10" SQUARE)
VL VISION LITE GLASS & LOUVERED

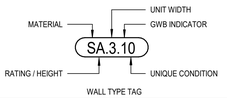
PARTITION TYPES DESCRIPTIONS

MATERIAL DESCRIPTION
S = STEEL (METAL STUDS)
W = WOOD STUDS
H = SHAFT WALLS
M = MASONRY
C = CONCRETE

RATING / HEIGHT
A = FULL HEIGHT / UNDERSIDE OF STRUCT (NOT RATED)
B = 6" ABOVE CEILING (NOT RATED)
C = UNDERSIDE OF CEILING (NOT RATED)
D = PARTIAL HEIGHT (NOT RATED)
X = VARIABLE HEIGHT (NOT RATED)
S = SMOKE PARTITON (NOT RATED)
0 = 0 HOUR RATED (CORRIDOR)
5 = 0.5 HOUR RATED
1 = 1 HOUR RATED
2 = 2 HOUR RATED
3 = 3 HOUR RATED
4 = 4 HOUR RATED

UNIT WIDTH / CONFIGURATION
F = FURRING STRIPS / CHANNELS
1 = 1 5/8" METAL
2 = 2 1/2" METAL / 1 1/2" WOOD
3 = 3 5/8" METAL
4 = 4" METAL / 3 1/2 WOOD / 3 5/8" CMU
6 = 6" METAL / 5 1/2" WOOD / 5 5/8" CMU / 6" CONC
8 = 8" METAL / 7 1/4" WOOD / 7 5/8" CMU / 8" CONC
10 = 10" CONC
12 = 11 5/8" CMU / 12" CONC
X = NON-STANDARD WIDTH, SEE DETAILS
D = DOUBLE STUD FRAMING
S = STAGGERED STUD FRAMING

GYPSUM WALLBOARD INDICATOR
(NOT INCLUDING SHAFT LINER)
0 = NO GWB
1 = ONE LAYER, TAG SIDE
2 = ONE LAYER, EACH SIDE
3 = TWO LAYERS TAG SIDE, ONE LAYER OTHER
4 = TWO LAYERS, EACH SIDE
5 = TWO LAYERS TAG SIDE, NO GWB OTHER
6 = THREE LAYERS, EACH SIDE



WALL TYPE TAG

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REGISTERED ARCHITECT JUSTIN A. ZAK 23632 STATE OF TEXAS
12/31/2025

ALIEF MIDDLE - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT
4415 COOK ROAD
HOUSTON, TX 77072

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
ADD 1 06-16-25 COH COMMENTS
ADD 5 10-31-25 CLIENT VE
ADD 6 02-11-26 ISSUE FOR BID & PERMIT
ADD 7 04-06-26 OWNER VE

39-25156-00

DOOR & FRAME TYPE & SCHEDULE

A8.2

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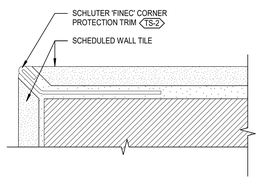
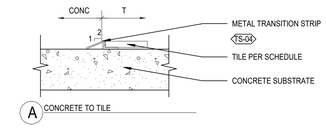
FINISH SCHEDULE

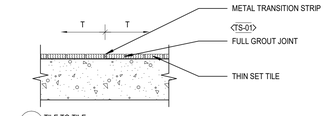
TAG	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR/FINISH	SIZE	COMMENTS
093013 TILING, GROUT & METAL TRIM ACCESSORIES						
CT-01	CERAMIC TILE	DALTILE	COLOR WHEEL CLASSIC	MATTE DESERT GRAY X714	4X4	RESTROOM WALL TILE. WATER-RESISTANT GYPSUM BOARD SHALL BE USED AS A BASE FOR WALL TILE AS SPECIFIED.
CT-02	CERAMIC TILE	DALTILE	COLOR WHEEL CLASSIC	SUNFLOWER DH50	4X4	RESTROOM ACCENT WALL TILE. WATER-RESISTANT GYPSUM BOARD SHALL BE USED AS A BASE FOR WALL TILE AS SPECIFIED.
G-01	GROUT	LATICRETE	PERMACOLOR	RAVEN 45		1/8" GROUT JOINT THICKNESS
PT-01	PORCELAIN TILE	DALTILE	COLOR WHEEL CLASSIC	MATTE CHARCOAL 0780	2X2	RESTROOM FLOOR TILE, CLASS A FOR ASTM E84 & CLASS II FOR MINIMUM CRITICAL RADIANT FLUX
TS-1	METAL TRIM ACCESSORY	SCHLUTER	METAL COVE SHAPED TRIM - DILEX-AHK			AT BOTTOM OF WALL TILES
TS-2	METAL TRIM ACCESSORY	SCHLUTER	FINEC			AT OUTSIDE CORNER EDGES
095100 ACOUSTIC CEILING TILE						
APC-01	ACOUSTIC PANEL CEILING	ARMSTRONG	CALLA 2824 W SQUARE TEGULAR 9/16 EDGE	WHITE	24X24	CLASS A FOR ASTM E84
099124 PAINTING						
P-01	PAINT	BENJAMIN MOORE	LOW VOC, PREMIUM PAINT	BABY'S BREATH, CEILING, EGGSHELL FINISH		CLASS A FOR ASTM E84
P-02	PAINT	BENJAMIN MOORE	LOW VOC, PREMIUM PAINT	DECORATOR'S WHITE CC-20; SEMI-GLOSS FINISH		CLASS A FOR ASTM E84
102100 TOILET COMPARTMENTS						
TC-01	TOILET COMPARTMENT	ASI PARTITIONS	SOLID PLASTIC HDPE	FOLKSTONE GRAY 9400		FLOOR ANCHORED; TOP BRACED, CLASS A FOR ASTM E84
PLASTIC LAMINATE LEGEND. SPEC SECTIONS: 064023, 064116, 123213, 123623.13						
PL-01	PLASTIC LAMINATE	WILSONART		MATCH EXISTING SIGNAGE		FOR ROOM SIGNAGE



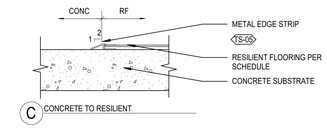
1D / A12.01 OUTER CORNER TILE TRANSITION
SCALE: 12" = 1'-0"



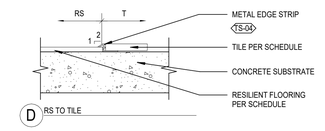
A CONCRETE TO TILE



B TILE TO TILE



C CONCRETE TO RESILIENT



D RS TO TILE

FLOOR TRANSITION DETAILS
SCALE: 1 1/2" = 1'-0"

FINISH SCHEDULE GENERAL NOTES

A. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE ROOM FINISH SCHEDULE OR FINISH PLANS.
B. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
C. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
D. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
E. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
F. NOT USED.
G. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR.

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REGISTERED ARCHITECT ABIRAM SUSTAINA LEE 23632 STATE OF TEXAS
12/31/2025

ALIEF MIDDLE - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT
4415 COOK ROAD
HOUSTON, TX 77072

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FINISH SCHEDULES

A12.01

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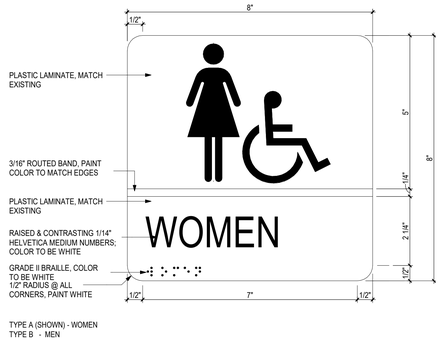
ROOM SIGN SCHEDULE				
CONSTRUCTION ROOM NUMBER (FOR CONSTRUCTION PURPOSES ONLY)	CONSTRUCTION ROOM NAME (FOR CONSTRUCTION PURPOSES ONLY)	ALIEF ISD ROOM SIGN NUMBER (FOR ROOM SIGNAGE INSTALLATION)	ALIEF ISD ROOM SIGN NAME (FOR ROOM SIGNAGE INSTALLATION)	SIGN TYPE
103	BOYS			B
103A	MEN STAFF			B
105	GIRLS			A
105A	WOMEN STAFF			A
203	BOYS			B
203A	MEN STAFF			B
203B	VESTIBULE			N/A
205	GIRLS			A
205A	WOMEN STAFF			A
205B	VESITBULE			N/A

5

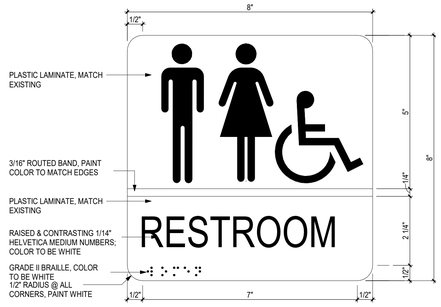
NOTE: ACTUAL ROOM NUMBERS AND ROOM NAMES TO BE PROVIDED AT LATER DATE.



TYPE A (SHOWN) - WOMEN
TYPE B - MEN

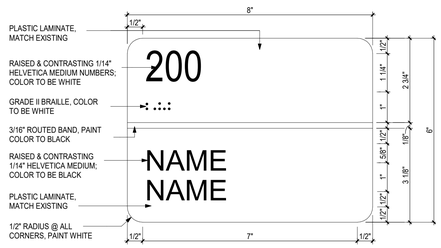
SIGN TYPE A & B - TOILET SIGN

SCALE: 6" = 1'-0"



SIGN TYPE C

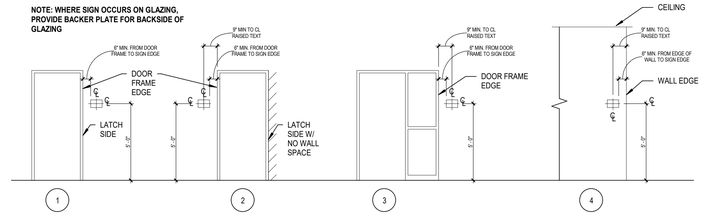
SCALE: 6" = 1'-0"

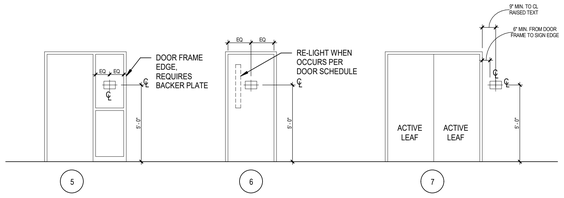


SIGN TYPE D - SERVICE SPACES

SCALE: 6" = 1'-0"

NOTE: WHERE SIGN OCCURS ON GLAZING, PROVIDE BACKER PLATE FOR BACKSIDE OF GLAZING





SIGN MOUNTING HEIGHTS

SCALE: 1/4" = 1'-0"

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REGISTERED ARCHITECT
JUSTIN A. ARRAM
23632
STATE OF TEXAS
12/31/2025

ALIEF MIDDLE - RESTROOM RENOVATIONS

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LEVEL 01 - SIGNAGE PLAN

A14.1

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ABBREVIATIONS

A

A	AIR (COMPRESSED)
ABV	ABOVE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT, AIR COMPRESSOR
ACCH	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR, AREA DRAIN
ADJ	ADJUSTABLE
AF	AIR FILTER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHRI	AIR-CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMB	AMBIENT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARCH	ARCHITECT, ARCHITECTURAL
AS	AIR SEPARATOR
ASHP	AIR SOURCE HEAT PUMP
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AVG	AVERAGE
AWS	AMERICAN WELDING SOCIETY
AUX	AUXILIARY

B

B	BOILER
BC	BELOW COUNTER
B/C	BACK OF CURB
BFF	BELOW FINISHED FLOOR
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BM	BENCHMARK
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BP	BACKFLOW PREVENTER
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE

C

C	CELSIUS
CAB	CABINET
CD	CONDENSATE DRAIN LINE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CH	CHILLER
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CHW	CHILLED WATER
CHWP	CHILLED WATER PUMP
CI	CAST IRON
CIRC	CIRCULATING
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESSOR
CONC	CONCRETE, CONCENTRIC
COND	CONDENSER, CONDENSATE
CONN	CONNECTION
CONT	CONTINUOUS,CONTINUATION
CTR	CENTER
CU	COPPER
CV	CONSTANT VOLUME

D

D	DEPTH, DRAIN, DRYER
DB	DRY BULB
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DDMB	DUAL DUCT MIXING BOX
DESIG	DESIGNATION
DTL	DETAIL
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DPR	DAMPER
DW	DISHWASHER
DWG	DRAWING
DX	DIRECT EXPANSION

E

EA	EACH
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
EDB	ENTERING DRY BULB
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EMERG	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETD	EXISTING TO BE DEMOLISHED
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORATOR
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EX	EXPLOSION PROOF
EXT	EXTERNAL
EXTG	EXISTING

F

F	FAHRENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCU	FAN COIL UNIT
FD	FLOOR DRAIN, FIRE DAMPER
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FPTU	FAN POWERED TERMINAL UNIT
FT	FOOT, FEET
FUT	FUTURE

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLV	GLOBE VALVE
GND	GROUND
GPM	GALLONS PER MINUTE
GUH	GAS UNIT HEATER
GV	GATE VALVE

H

HDT	HORIZONTAL DRAW THROUGH
HORIZ	HORIZONTAL
HP	HORSEPOWER, HEAT PUMP
HSTAT	HUMIDISTAT
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HWP	HEATING WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IH	INFRARED HEATER
IN	INCH
INSUL	INSULATION
INT	INTERNAL, INTERIOR

K

KEC	KITCHEN EQUIPMENT CONTRACTOR
KO	KNOCKOUT
KVA	KILOVOLT- AMPS
KW	KILOWATT

L

L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LF	LINEAR FEET
LP	LOW PRESSURE
LRA	LOCKED ROTOR AMPS
LVL	LEVEL
LWB	LEAVING WET BULB
LWCO	LOW WATER CUT OFF
LWT	LEAVING WATER TEMPERATURE

M

MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MI	MALLEABLE IRON
MIN	MINIMUM
MP	MEDIUM PRESSURE
MTD	MOUNTED
MU	MAKE-UP
MVD	MANUAL VOLUME DAMPER
MSAH	MINI-SPLIT AIR HANDLER
MSCU	MINI-SPLIT CONDENSING UNIT
MZ	MULTI-ZONE

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE

O

OA	OUTSIDE AIR
OAF	OUTSIDE AIR FAN
OAHU	OUTSIDE AIR HANDLING UNIT
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OFCU	OUTSIDE AIR FAN COIL UNIT
OPG	OPENING
OS&Y	OUTSIDE SCREW AND YOKE

P

PG	PRESSURE GAUGE
PP	POLYPROPYLENE
PPM	PART PER MILLION
PRI	PRIMARY
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE

Q

QTY	QUANTITY

R

RA	RETURN AIR
RAD	REFRIGERATED AIR DRYER
RAF	RETURN AIR FAN
RAG	RETURN AIR GRILLE
RAT	RETURN AIR TEMPERATURE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE	REFERENCE, REFER
RED	REDUCER
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION, REVISE
RH	RELATIVE HUMIDITY
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RLA	RUNNING LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SAG	SUPPLY AIR GRILLE
SAR	SUPPLY AIR REGISTER
SC	STEAM CONDENSATE
SCHED	SCHEDULED
SEC	SECONDARY
SECT	SECTION
SENS	SENSIBLE
SF	SQUARE FEET
SFCS	SPRINKLER FLOOR CONTROL STATION
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SM	SHEETMETAL
SP	STATIC PRESSURE, SUMP PUMP
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	STAINLESS STEEL
SSSC	SOLID STATE SPEED CONTROL
STD	STANDARD
STL	STEEL
STM	STEAM
STR	STRAINER
SURF	SURFACE
SUSP	SUSPEND
SV	SANITARY VENT
SW	SOFT WATER
SZ	SINGLE ZONE

T

TC	TEMPERATURE CONTROL
TDH	TOTAL DYNAMIC HEAD
TF	TRANSFER FAN
TH BLK	THRUST BLOCK
THERM	THERMOMETER
TMV	THERMOSTATIC MIXING VALVE
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TW	TEMPERED HOT WATER
TYP	TYPICAL

U

UCD	UNDER CUT DOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC
UNO	UNLESS NOTED OTHERWISE
U/F	UNDERFLOOR
U/S	UNDERSLAB

V

V	VOLT
VA	VOLT- AMPERE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VB	VALVE BOX, VACUUM BREAKER
VD	VOLUME DAMPER
VDT	VERTICAL DRAW THROUGH
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIB	VALVE IN BOX
VOV	VALVE ON VERTICAL
VP	VACUUM PUMP
VRF	VARIABLE REFRIGERANT FLOW
VVR	VARIABLE AIR VOLUME REHEAT

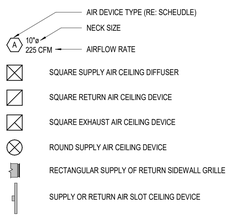
W

W	WATT, WIDTH
W/	WITH
W/O	WITHOUT
WB	WET BULB
WM	WATER METER
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WSHP	WATER SOURCE HEAT PUMP
WWF	WELDED WIRE FABRIC

Z

Z	ZONE

AIR DEVICE TYPES



WALL MOUNTED SENSOR AND DEVICE TYPES

T	THERMOSTAT / TEMPERATURE SENSOR
H	HUMIDISTAT / HUMIDITY SENSOR
C	CARBON DIOXIDE SENSOR
CO	CARBON MONOXIDE SENSOR
N	NITROGEN DIOXIDE SENSOR
P	PRESSURE SENSOR
S	REFRIGERANT DETECTION SENSOR
$	ON/OFF SWITCH
EPO	EMERGENCY POWER OFF BUTTON
AV	REFRIGERANT AUDIO/VISUAL DETECTION ALARM

CONTROLS SCHEMATIC SYMBOLS LEGEND

AI	ANALOG INPUT	FS	FLOW SWITCH
AO	ANALOG OUTPUT	DAT	DISCHARGE AIR TEMPERATURE SENSOR
DI/BI	DIGITAL/BINARY INPUT	S	WALL SENSOR
DO/BO	DIGITAL/BINARY OUTPUT	T	THERMOSTAT
MD	ON-OFF MOTORIZED DAMPER	CO2	CARBON DIOXIDE SENSOR
MMD	MODULATING TYPE MOTORIZED DAMPER	SP	SET POINT
AFMS	AIR FLOW MEASURING STATION	S/A	SUPPLY AIR
MCV	CONTROL VALVE MODULATING TYPE	R/A	RETURN AIR
VFD	VARIABLE FREQUENCY DRIVE	O/A	OUTSIDE AIR
CSR	CURRENT SENSING RELAY	HC	HEATING COIL
FRZ	FREEZESTAT	CC	COOLING COIL
HSL	HIGH STATIC LIMIT	DX	DIRECT EXPANSION COOLING COIL
SPT	STATIC PRESSURE TRANSMITTER	PICCV	PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE
DPT	DIFFERENTIAL PRESSURE TRANSDUCER	AFC	AIRFLOW CROSS
FM	FLOW METER	DPS	DIFFERENTIAL PRESSURE SWITCH

PIPING TYPES

CD	CONDENSATE DRAIN LINE	REF	REFRIGERANT PIPING SIZED BY MFR.
CHS	CHILLED WATER SUPPLY	HPS	HIGH PRESSURE STEAM SUPPLY
CHR	CHILLED WATER RETURN	HPR	HIGH PRESSURE CONDENSATE RETURN
HWS	HOT WATER SUPPLY	LPS	LOW PRESSURE STEAM SUPPLY
HWR	HOT WATER RETURN	LPR	LOW PRESSURE CONDENSATE RETURN
CWS	CONDENSER WATER SUPPLY	PCR	PUMPED CONDENSATE RETURN
CWR	CONDENSER WATER RETURN		

DESIGN CRITERIA

LOCATION:
4415 COOK ROAD
HOUSTON, TX 77072

DESIGN CONDITIONS:

HEATING DB:	31.4 °F (ASHRAE 99.6%)
COOLING DB / WB:	97.6 °F / 76.6 °F (ASHRAE 0.4%)
DEHUMIDIFICATION DP / DB:	78.3 °F / 82.9 °F (ASHRAE 0.4%)

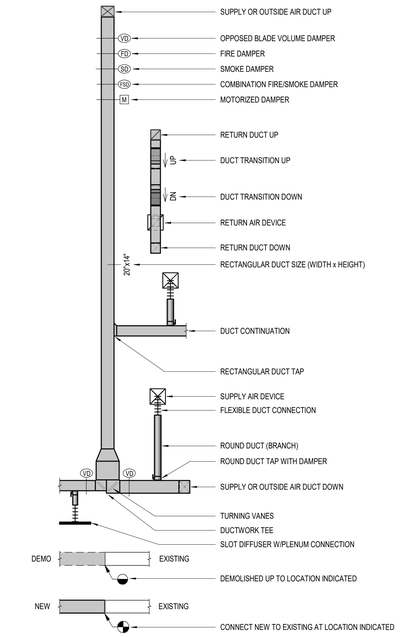
SPACE INDOOR DESIGN TEMPERATURE:

HEATING DB:	70 °F
COOLING DB:	75 °F
RELATIVE HUMIDITY	55%

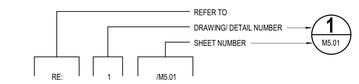
BUILDING CODES & STANDARDS

APPLICABLE CODES:
2021 INTERNATIONAL BUILDING CODE (WITH HOUSTON AMENDMENTS)
2021 INTERNATIONAL FIRE CODE (WITH HOUSTON AMENDMENTS)
2021 UNIFORM MECHANICAL CODE (WITH HOUSTON AMENDMENTS)
2021 UNIFORM PLUMBING CODE (WITH HOUSTON AMENDMENTS)
2021 INTERNATIONAL ENERGY CONSERVATION CODE (WITH HOUSTON AMENDMENTS)
2023 NATIONAL ELECTRICAL CODE (STATE MANDATED)

DUCTWORK



DRAWING/DETAIL REFERENCE KEY



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10-31-25
REVISIONS
2 02-11-26 ISSUE FOR BID & PERMIT
3 04-06-26 OWNER VE

39-25156-00

MECHANICAL SYMBOL LEGEND

M0.01

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DEMO/RENO MECHANICAL GENERAL NOTES

A. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR SCOPE OF DEMOLITION WORK, EXACT LOCATIONS, CONDITIONS, PHASING, CONSTRUCTION SCHEDULING, AND ANY ADDITIONAL DEMOLITION NOTES, REQUIREMENTS, ETC.

B. MECHANICAL DEMOLITION DRAWINGS ARE GENERALLY DIAGRAMMATIC AND IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT ALL MECHANICAL SYSTEMS SHALL REMAIN UNLESS NOTED TO BE REMOVED OR DEMOLISHED. VERIFY EXACT LOCATIONS AND CONDITIONS AND COORDINATE WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO REMOVING ANY EXISTING ITEMS. DO NOT ABANDON ANY ITEMS IN PLACE.

C. EQUIPMENT, DUCTWORK, PIPING, ETC. INDICATED AS EXISTING (E) SHALL REMAIN AND BE RE-USED IN EXISTING LOCATIONS. IF EXISTING ITEMS CONFLICT WITH NEW CONSTRUCTION, CONTRACTOR SHALL RELOCATE, REWORK, REROUTE, RECONNECT, AND REINSTALL COMPLETELY AS REQUIRED AS IF NEW AT NO ADDITIONAL COST. COORDINATE WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, ARCHITECT, ETC. PRIOR TO RELOCATION. REFER TO APPLICABLE NOTES FOR NEW ITEMS.

D. EQUIPMENT, DUCTWORK, PIPING ETC. INDICATED AS EXISTING TO BE DEMOLISHED (D) SHALL BE REMOVED IN THEIR ENTIRETY. ALL APPURTENANCES, RELATED COMPONENTS, INCLUDING ALL DUCTWORK, PIPING, SUPPORTS, HANGERS, CONTROLS, ETC. ASSOCIATED WITH EACH ITEM SHALL BE REMOVED UNLESS NOTED OTHERWISE. CAP ALL DUCTWORK AND PIPING AS REQUIRED SERVING EACH ITEM AT BUILDING MAINS. VERIFY EXACT LOCATIONS AND CONDITIONS AND COORDINATE WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO REMOVING ANY EXISTING ITEMS. DO NOT ABANDON ANY ITEMS IN PLACE.

E. WHERE CONSTRUCTION, EXISTING DUCTWORK, MECHANICAL / PLUMBING / FIRE SPRINKLER PIPING, ELECTRICAL CONDUIT, CABLING, ETC. WHICH MUST REMAIN AS PART OF AN ACTIVE SYSTEM CONFLICTS WITH NEW CONSTRUCTION, CONTRACTOR SHALL RELOCATE, REWORK, REROUTE, RECONNECT, AND REINSTALL COMPLETELY AS REQUIRED AS IF NEW AT NO ADDITIONAL COST. COORDINATE WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, ARCHITECT, ETC. PRIOR TO RELOCATION. REFER TO APPLICABLE NOTES FOR NEW ITEMS.

F. CONTRACTOR SHALL COORDINATE WITH EACH TRADE CONTRACTOR FOR REMOVAL OF EXISTING ELECTRICAL AND PLUMBING SERVICES INCLUDING ALL CONDUIT, WIRING, PIPING, INSULATION, APPURTENANCES, RELATED COMPONENTS, ETC. ASSOCIATED WITH REMOVAL OF EXISTING MECHANICAL EQUIPMENT. VERIFY EXACT LOCATIONS AND CONDITIONS AND COORDINATE WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO REMOVING ANY EXISTING ITEMS. DO NOT ABANDON ANY ITEMS IN PLACE.

G. THESE DRAWINGS WERE PREPARED FROM THE BEST INFORMATION AVAILABLE. ORIGINAL DRAWINGS, FIELD OBSERVATIONS, ETC., BUT MAY NOT INDICATE THE EXACT LOCATION OF ALL EXISTING MECHANICAL COMPONENTS. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE EXISTING CONDITIONS SURROUNDING THE INSTALLATION OF THEIR WORK PRIOR TO PROCEEDING WITH THE INSTALLATION. MODIFICATIONS REQUIRED DUE TO EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER / OWNER FOR REVIEW BY WAY OF SHOP DRAWINGS OR SKETCHES DETAILING THE EXISTING CONDITIONS AND THE PROPOSED REVISION.

H. CONTRACTOR SHALL BE RESPONSIBLE TO VISIT THE JOBSITE, COMPLETELY REVIEW CONTRACT DOCUMENTS, AND FIELD VERIFY EXTENT OF WORK AND EXACT LOCATIONS AND CONDITIONS OF ALL NEW AND EXISTING CONSTRUCTION, ELEVATIONS, SERVICE POINTS, ETC. AS REQUIRED FOR A COMPLETE AND CORRECTLY OPERATING SYSTEM. CONTACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, AND REPORT IN WRITING ANY CONFLICTS, PROBLEMS, OR ANY CONDITION THAT MAY ADVERSELY AFFECT THE PROPER EXECUTION OF THE WORK THAT IS NOT INDICATED ON THE DRAWINGS. THIS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR MAKING ANY CORRECTIONS OR ALTERATIONS DEEMED NECESSARY TO COMPLETE THE WORK AND SHALL INCLUDE ALL ASSOCIATED COSTS IN THEIR BID WITH NO ADDITIONAL EXPENSE.

I. CONTRACTOR SHALL COORDINATE ALL CUTTING AND PATCHING OF EXISTING WALLS, CEILINGS, ROOF AND FLOOR REQUIRED FOR THEIR WORK WITH GENERAL CONTRACTOR, STRUCTURAL ENGINEER, AND OWNER'S REPRESENTATIVE. ALL PENETRATIONS SHALL BE SEALED AND RESTORED TO THE ORIGINAL CONDITIONS, STRUCTURAL PROPERTIES, AND FINISHED IN SAME MATERIALS AND MANNER AS ADJACENT AREAS. ALL ROOF PENETRATIONS, ROOF PIPE SUPPORTS, FLASHINGS, ETC. SHALL BE MADE WATERTIGHT AND AS RECOMMENDED BY THE ROOF MANUFACTURER. ALL EXISTING PENETRATIONS WHICH ARE NOT TO BE REUSED SHALL BE PROPERLY SEALED OFF TO MAINTAIN THE STRUCTURAL, WATERPROOF, AND FIREPROOF INTEGRITY OF THE WALL, FLOOR, OR ROOF SYSTEM PENETRATED.

J. COORDINATE ALL RENOVATIONS / REMODEL / DEMOLITION WORK WITH THE OWNER'S REPRESENTATIVE, BUILDING ENGINEER / MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT, FIXTURES, OR SYSTEMS THAT WILL AFFECT OTHER SYSTEM WITHIN THE AREA OF CONSTRUCTION, OR OTHER AREAS OF THE BUILDING. CONTRACTOR SHALL NOTE THAT THE BUILDING IS OCCUPIED, AND WILL REMAIN SO DURING CONSTRUCTION, AND, THEREFORE, UTILITIES / BUILDING SYSTEMS MUST REMAIN IN OPERATION. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE AND BUILDING ENGINEER / MAINTENANCE PERSONNEL. PROVIDE TEMPORARY CONNECTIONS OF UTILITIES AND AIR CONDITIONING AS NECESSARY TO FACILITATE THE PHASING OF CONSTRUCTION.

K. ALL WORK SHALL BE SCHEDULED AND PERFORMED IN STRICT COORDINATION WITH CONSTRUCTION PHASING AND WITH OWNERS' SCHEDULES, OCCUPANCIES, ETC. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK, PIPING, ETC. AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE.

L. PRIOR TO THE REMOVAL OF ANY MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT, FIXTURES, OR SYSTEMS, THE CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEM AND CONFIRM THAT THE ITEMS BEING REMOVED DO NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE CONTRACT LIMITS). WHEN RENOVATION / REMODEL / DEMOLITION WORK IS PERFORMED, THE CONTRACTOR SHALL EXERCISE CARE IN PROTECTING EXISTING ITEMS TO REMAIN AND EXISTING ITEMS TO BE REMOVED AND RELOCATED. PROTECT ALL EXISTING BUILDING COMPONENTS, WALLS, FLOORS, FINISHES, FURNISHINGS, ADJACENT EQUIPMENT, LIGHTING, ETC. ANY ITEMS DAMAGED OR WHERE FINISHES HAVE BEEN MARRED, SHALL BE REPAIRED AND REFINISHED TO ORIGINAL CONDITION AT NO COST TO THE OWNER. ALL ITEMS SOILED IN THE PROGRESS OF THE WORK SHALL BE CLEANED TO THEIR PRE- EXISTING CONDITIONS.

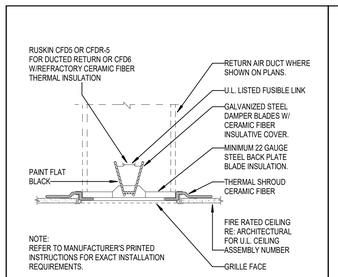
M. ALL EXISTING EQUIPMENT REMOVED SHALL BE PROTECTED FROM DAMAGE IN SO FAR AS PRACTICAL. THESE ITEMS SHALL BE STORED ON SITE FOR A MINIMUM OF TWO (2) WEEKS UNLESS INDICTED OTHERWISE BY THE OWNER'S REPRESENTATIVE TO ALLOW INSPECTION BY THE OWNER. ALL ITEMS RETAINED BY THE OWNER SHALL BE TAGGED AND STORED ON SITE UNTIL DIRECTED OTHERWISE BY OWNER. ALL ITEMS NOT RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND DISPOSED OF PROPERLY.

N. REWORK AND REPAIR ALL DUCTWORK AND PIPING INSULATION DAMAGED OR REMOVED DURING RENOVATION / REMODEL / DEMOLITION AS REQUIRED TO MATCH EXISTING.

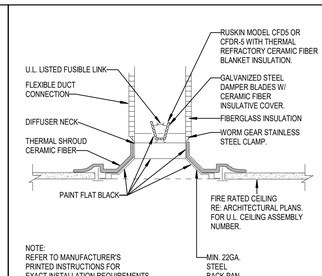
O. EQUIPMENT INGRESS AND EGRESS ROUTES FOR THE RENOVATION WORK SHALL BE COORDINATED WITH THE OWNER. COORDINATE TIMES, DATES, AND DURATIONS WITH OWNER A MINIMUM OF 2 WEEKS IN ADVANCE TO ENSURE THERE ARE NO CONFLICTS IN USAGE OF EQUIPMENTSPACES.

P. ALL EXISTING EQUIPMENT THAT INCLUDES A REFRIGERATION CIRCUIT THAT IS TO BE DEMOLISHED OR RELOCATED SHALL HAVE THE REFRIGERANT CHARGE RECOVERED PRIOR TO DEMOLITION OR RELOCATION. REFRIGERANT RECOVERY SHALL COMPLY WITH EPA, STATE, AND LOCAL JURISDICTION REQUIREMENTS. RECOVERED REFRIGERANTS SHALL NOT BE USED IN ANY SYSTEM, NEW OR EXISTING, UNLESS THE REFRIGERANT HAS BEEN RECLAIMED AND FOUND TO MEET THE PURITY REQUIREMENTS OF AHRI 700.

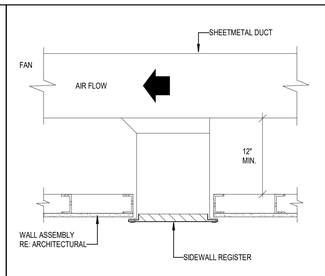
Q. EXISTING EQUIPMENT BEING RELOCATED SHALL BE VERIFIED TO BE IN PROPER OPERATING CONDITION PRIOR TO EQUIPMENT RELOCATION. VERIFICATION SHALL BE PERFORMED BY EQUIPMENT MANUFACTURER'S AUTHORIZED SERVICE REPRESENTATIVE. IF EXISTING EQUIPMENT IS FOUND TO BE DEFICIENT, THE SERVICE REPRESENTATIVE SHALL NOTIFY THE ENGINEER AND OWNER AND PROVIDE RECOMMENDATIONS TO RESTORE EQUIPMENT TO PROPER OPERATING CONDITION.



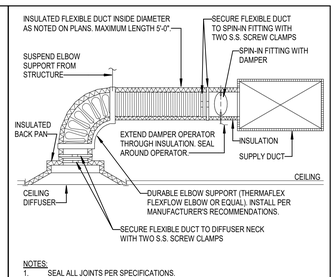
4 FIRE RATED RETURN GRILLE



3 FIRE RATED SUPPLY DAMPER



2 SIDEWALL EXHAUST REGISTER



1 CEILING DIFFUSER CONNECTION

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REVISIONS
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MECHANICAL GENERAL NOTES & DETAILS

M0.11

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1 LEVEL 01 - MECHANICAL PLAN

1/16" = 1'-0"

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LEVEL 01 - MECHANICAL PLAN

M2.11

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1 **LEVEL 02 - MECHANICAL PLAN**
1/16" = 1'-0"

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LEVEL 02 - MECHANICAL PLAN

M2.21

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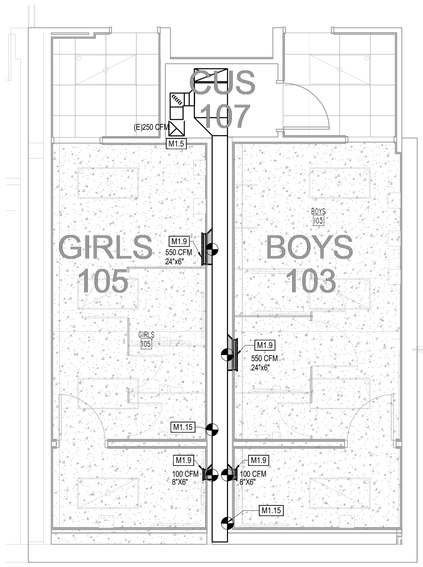
MECHANICAL KEYED NOTES

M1.5 MECHANICAL CONTRACTOR SHALL REPLACE EXISTING EXHAUST AIR GRILLE IN RESTROOM AREA TO NEW LOCATION SHOWN. PROVIDE NECESSARY TRANSITION TO CONNECT NEW 1'X1' GRILLE TO EXISTING DUCTWORK. SEAL AIR TIGHT. COORDINATE GRILLE LOCATION WITH LIGHTING. BASIS OF DESIGN: MODEL TITUS PAR-FR. COORDINATE WITH ARCHITECT FOR FINISH/COLOR.

M1.9 MECHANICAL CONTRACTOR SHALL REPLACE EXISTING SUPPLY AIR DIFFUSER IN RESTROOM AREA TO NEW LOCATION SHOWN. PROVIDE NECESSARY TRANSITION TO CONNECT NEW SIDEWALL DIFFUSER TO EXISTING DUCTWORK, SEAL AIR TIGHT. COORDINATE GRILLE LOCATION WITH LIGHTING AND CEILING HEIGHT. BASIS OF DESIGN: MODEL TITUS 300FL. COORDINATE WITH ARCHITECT FOR FINISH/COLOR. GRILLE TO BE BELOW CEILING.

M1.15 PATCH AND SEAL EXISTING SIDEWALL EXHAUST DUCTWORK OPENING.



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TRUE

8 **LEVEL 01 - MECHANICAL PLAN - RR 1-2**
1/4" = 1'-0"

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LEVEL 01 - MECHANICAL PLAN - ENLARGED

M3.01

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MECHANICAL KEYED NOTES

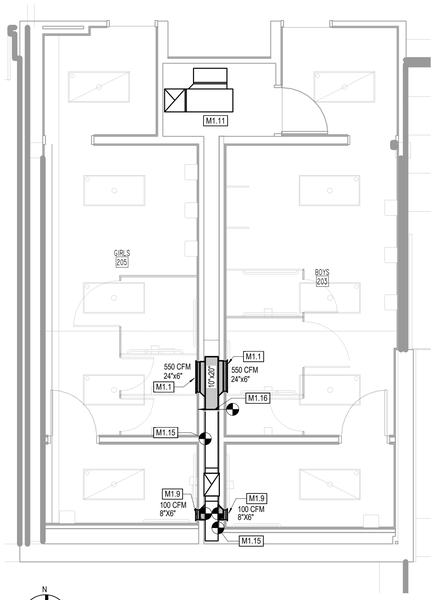
M1.1 MECHANICAL CONTRACTOR SHALL REPLACE EXISTING SIDEWALL EXHAUST AIR GRILLE IN RESTROOM AREA TO NEW LOCATION SHOWN. PROVIDE NECESSARY TRANSITION TO CONNECT NEW GRILLE TO EXISTING DUCTWORK. SEAL AIR TIGHT. COORDINATE GRILLE LOCATION WITH LIGHTING AND CEILING HEIGHT. BASIS OF DESIGN: MODEL TITUS 350 FL. COORDINATE WITH ARCHITECT FOR FINISH/COLOR. GRILLE TO BE BELOW CEILING.

M1.9 MECHANICAL CONTRACTOR SHALL REPLACE EXISTING SUPPLY AIR DIFFUSER IN RESTROOM AREA TO NEW LOCATION SHOWN. PROVIDE NECESSARY TRANSITION TO CONNECT NEW SIDEWALL DIFFUSER TO EXISTING DUCTWORK. SEAL AIR TIGHT. COORDINATE GRILLE LOCATION WITH LIGHTING AND CEILING HEIGHT. BASIS OF DESIGN: MODEL TITUS 300FL. COORDINATE WITH ARCHITECT FOR FINISH/COLOR. GRILLE TO BE BELOW CEILING.

M1.11 EXISTING AIR DEVICE TO REMAIN.

M1.15 PATCH AND SEAL EXISTING SIDEWALL EXHAUST DUCTWORK OPENING.

M1.16 EXTEND DUCTWORK AS REQUIRED TO ACCOMMODATE NEWLY LOCATED AIR DEVICES. PROVIDE TRANSITIONS AS REQUIRED TO CONNECT EXTENDED DUCTWORK TO EXISTING.



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1 **LEVEL 02 - MECHANICAL PLAN - RR 1-2**
1/4" = 1'-0"

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LEVEL 02 - MECHANICAL PLAN - ENLARGED

M3.02

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ABBREVIATIONS

AC	ALTERNATING CURRENT
AF	AMPERE FUSE, AMPERE FRAME
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPT CAPACITY
AL	ALUMINUM
AM	AMMETER
AMP	AMPLIFIER
ANN	ANNUNCIATOR
ASC	AMPERES SHORT CIRCUIT
AT	AMPERE TRIP RATING
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
BKR	BREAKER
BLDG.	BUILDING
C	CONDUIT, CELSIUS
CKT	CIRCUIT
CLG.	CEILING
CONT.	CONTINUOUS,CONTINUATION
CONTR	CONTROLLER, CONTRACTOR
CT	CURRENT TRANSFORMER/COOLING TOWER
CU	COPPER
DAS	DISTRIBUTED ANTENNA SYSTEM
DC	DIRECT CURRENT
DISC	DISCONNECT
DP	DISTRIBUTION PANEL
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DWG	DRAWING
ELEV.	ELEVATOR
EPO	EMERGENCY POWER OFF
ERRC	EMERGENCY RESPONDER RADIO COVERAGE SYSTEM
FA	FIRE ALARM
FF	FURNITURE FEED
FLA	FULL LOAD AMPS
FTL	FEED-THRU LUGS
GA	GAUGE
GEN	GENERATOR
GND	GROUND
GTD	GENERATOR TRANSFER DEVICE
IG	ISOLATED GROUND
LF	LINEAR FEET
LTG	LIGHTING
LV	LOW VOLTAGE
LVL	LEVEL
MAX.	MAXIMUM
MC	METAL CLAD CABLE
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCCB	MOLDED CASE CIRCUIT BREAKER
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MIC	MICROPHONE
MIN.	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MSB	MAIN SWITCHBOARD
N3R	NEMA 3R
N4X	NEMA 4X
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NFS	NON-FUSED SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE
PH	PHASE
POS	POINT OF SALE
QTY	QUANTITY
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
RE	REFERENCE, REFER
SF	SQUARE FOOT
SIM	SIMILAR
SKVA	STARTING KILOVOLT-AMPS
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE-POLE, DOUBLE-THROW
SPST	SINGLE-POLE, SINGLE-THROW
SPEC	SPECIFICATION
SQFT	SQUARE FOOT
ST	SHUNT TRIP
SWB	SWITCHBOARD
TL	TWIST-LOCK
TOC	TOP OF CURB
TOS	TOP OF STEEL
TR	TAMPER RESISTANT RECEPTACLE
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SYSTEM
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF
WT	WATERTIGHT, WEIGHT
W/SF	WATTS PER SQUARE FOOT
XFMR	TRANSFORMER

MANY ABBREVIATIONS NOT LISTED MAY BE FOUND IN THE NATIONAL ELECTRIC CODE, OR IN THE INTERNATIONAL AND UNIFORM CODES

PHASING

(E)	EXISTING (TO REMAIN)
(D)	SHALL BE DEMOLISHED
(N)	PROVIDE NEW
(R)	RELOCATED ELEMENT

BUILDING CODES & STANDARDS

APPLICABLE CODES:
2021 INTERNATIONAL BUILDING CODE (WITH HOUSTON AMENDMENTS)
2021 INTERNATIONAL FIRE CODE (WITH HOUSTON AMENDMENTS)
2021 UNIFORM MECHANICAL CODE (WITH HOUSTON AMENDMENTS)
2021 UNIFORM PLUMBING CODE (WITH HOUSTON AMENDMENTS)
2021 INTERNATIONAL ENERGY CONSERVATION CODE (WITH HOUSTON AMENDMENTS)
2023 NATIONAL ELECTRICAL CODE (STATE MANDATED)

ELECTRICAL SYMBOLS

MOTORS AND CONTROLS

- MOTOR RATED SWITCH WITH THERMAL OVERLOADS
- (5) SINGLE OR THREE PHASE MOTOR NUMBER INDICATES HORSE POWER
- ELECTRIC DUCT HEATER
- DISCONNECT (SAFETY) SWITCH "200/3/150" DENOTES AMPERES/POLE/FUSE, "NF" DENOTES NON-FUSED "N3R" DENOTES NEMA 3R
- [B] ENCLOSED CIRCUIT BREAKER- "200/3/150" DENOTES AMPERES/POLE/TRIP.
- MOTOR STARTER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER. "30/3/15/80" DENOTES AMPERES/POLES/FUSE/ STARTER SIZE. "NF" DENOTES NON-FUSED. FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- [VFD] VARIABLE FREQUENCY DRIVE PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- [EPO] EMERGENCY POWER OFF BUTTON.

RECEPTACLES AND OUTLETS

ALL RECEPTACLES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS.

ABBREVIATIONS APPLICABLE TO RECEPTACLES:
"GFCI" GROUND FAULT INTERRUPTER
"WP" WEATHERPROOF
"IG" ISOLATED GROUND
"TIR" TAMPER RESISTANT
"USB" RECEPTACLE WITH USB CHARGING PORTS
"AC" ABOVE COUNTER MOUNTING
"UC" UNDER COUNTER MOUNTING
"H" HORIZONTALLY ORIENTED RECEPTACLE

- SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.
- DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V. SHADED INDICATES SPLIT-WIRED
- FOURPLEX (QUADRUPLEX) RECEPTACLE
- DUPLEX RECEPTACLE (PEDESTAL MOUNTED)
- CONTROLLED WALL RECEPTACLE. DUPLEX: SPLIT-WIRED QUAD: SEPARATELY WIRED UNDER A COMMON COVERPLATE.
- POWER DEVICE RED IN COLOR, ON EMERGENCY POWER CIRCUIT
- CEILING RECEPTACLE/QUAD, EMERGENCY POWER SYMBOL MAY APPLY
- SPECIAL RECEPTACLE, NEMA CONFIGURATION PER PLAN OR EQUIPMENT
- [TV] TV ROUGH-IN: 3-GANG RECESSED TV BOX, CONTAINING 1 DUPLEX RECEPTACLE, 1 GANG FOR AV, 1 GANG FOR DATA
- FLOOR BOX OR POKE THRU. POKE-THRU'S WHERE IN SUSPENDED SLABS, RECESSED IN FOUNDATION WHERE SLAB ON GRADE
- FLUSH ELECTRICAL FLOOR OUTLET. REFER TO FLOOR BOX SCHEDULE, FIRE RATED POKE-THROUGH SCHEDULE AND KEYED NOTES.
- [DC] DROP CORD WITH SIMPLEX RECEPTACLE UNLESS OTHERWISE NOTED
- [CR] CORD REEL WITH DUPLEX RECEPTACLE UNLESS OTHERWISE NOTED
- [J] [J] JUNCTION BOX
  "MD" INDICATES POWER CONNECTION TO SERVE MOTOR DAMPER
  "HD" INDICATES POWER CONNECTION TO SERVE HAND DRYER
  "FV" INDICATES POWER CONNECTION TO SERVE FLUSH VALVES
- [P] PULL BOX (OVER 4" SQUARE)
- BELL/BUZZER/CHIME
- PUSH BUTTON/DOOR BELL/START-STOP
- [PP] POWER POLE
- POINT OF DIRECT CONNECTION TO EQUIPMENT
- [C] (2) CLOCK RECEPTACLE SHALL BE MOUNTED 12" BELOW FINISHED CEILING. (2) DENOTES DOUBLE SIDED CLOCK.

LIGHTING

LETTER(S) DENOTE TYPE- SEE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

2' X 4' 2' X 2' 1' X 4' 1' X 2' 1' X 1'

- STRIP LIGHTING FIXTURES.
- ROUND DOWNLIGHT FIXTURE.
- SQUARE DOWNLIGHT FIXTURE.
- WALL MOUNTED LIGHTING FIXTURE.
- TRACK LIGHTING FIXTURE. MOUNTED AS SHOWN ON LIGHTING FIXTURE SCHEDULE.
- CEILING MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- WALL MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- EMERGENCY WALL MOUNTED LIGHTING FIXTURE. BATTERY OPERATED UNLESS NOTED OTHERWISE.
- SITE LIGHTING FIXTURE.

HATCHING PATTERNS BELOW SHALL APPLY TO ALL LIGHTING FIXTURE SYMBOLS.

- NL — EMERGENCY LIGHT FIXTURE WITH BATTERY PACK. PROVIDE WITH UNSWITCHED HOT FOR LOSS OF VOLTAGE AND CHARGING (SAME CIRCUIT AS NORMAL POWER LIGHTING). FIXTURES SHALL BE WIRED IN A MANNER AS TO ALLOW SWITCHING OF FIXTURES WITHOUT DISCHARGING THE EMERGENCY BATTERY. BATTERY PACK IS TO ONLY OPERATE IN THE EVENT OF A POWER OUTAGE.
  "NL" NIGHT LIGHT ON UNSWITCHED 24HR OPERATION
- EM CIRCUIT — LIGHT FIXTURE ON LIFE SAFETY BRANCH CIRCUIT. GENERATOR TRANSFER DEVICES REQUIRED (UL1008 OR UL924) PROVIDE UNSWITCHED HOT, NEUTRAL AND GROUND FOR ALL LIFE SAFETY LIGHTING ORIGINATING FROM THE LIFE SAFETY CIRCUIT SHOWN.
- CRITICAL OPERATIONS LIGHTING ORIGINATING FROM THE CRITICAL CIRCUIT INDICATED. HATCHED AS INDICATED. HATCHING TYPICAL FOR ALL CRITICAL BRANCH LIGHT FIXTURES

RACEWAYS AND WIRING

- CAP AND STAKE
- CONDUIT CONCEALED IN WALL OR CEILING
- UNDERGROUND, UNDERSLAB, CONCEALED ROUTING
- OHE — OVERHEAD ELECTRIC PRIMARY UTILITY POWER LINE
- CONDUIT UP/DOWN
- HASH MARKS INDICATE NUMBER OF CONDUCTORS. LEFT TO RIGHT: PHASE/NEUTRAL/GROUND/ISOLATED GROUND. NO HASH MARKS INDICATES EMPTY CONDUIT, 1" MINIMUM, UNLESS NOTED OTHERWISE.
- 1LA-2,4,6 — HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED.
- (ON)1LA-6 — PARTIAL/SHARED CIRCUIT HOMERUN TO PANEL.
- TELECOMMUNICATIONS CABLE TRAY SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.

ELECTRICAL EQUIPMENT

- DISTRIBUTION PANEL
- [MSB] SWITCHBOARD, MAIN DISTRIBUTION PANEL OR MOTOR CONTROL CENTER
- PANELBOARD (FLUSH/SURFACE MOUNT)
- FLOOR MOUNTED DRY-TYPE TRANSFORMER
- SUSPENDED OR WALL MOUNTED TRANSFORMER
- [ATS] AUTOMATIC TRANSFER SWITCH
- FIRE RATED PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4' X 8' X 3/4" UNLESS NOTED OTHERWISE

COMMUNICATIONS

DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 18" ABOVE FINISHED FLOOR (AFF)

- DATA/COMM/AV ROUGH-IN. CONDUIT TO PLENUM AND BOX ONLY
- [HS] [DS] SCHOOL INTERCOMMUNICATION SYSTEM HANDSET.

DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 42" AFF

- [VC] VOLUME CONTROL - WALL MOUNTED
- [CB] INTERCOM/PA SYSTEM CALL-IN OR CALL-BACK DEVICE

DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 120" AFF OR 12" BELOW CEILING, WHICHEVER IS LOWER

- (S)L — INTERCOM/PA SPEAKER "L" LOCAL SOUND REINFORCEMENT

CEILING MOUNTED DEVICES:

- (S)VC — INTERCOM/PA SPEAKER "VC" INDICATES VOLUME CONTROL ON SPEAKER.

REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

ONE-LINE DIAGRAM

- TRANSFORMER, TYPE AND RATINGS AS NOTED
- 800A/3P — SWITCH, RATING AS SHOWN
- 400A — FUSE, RATING AS SHOWN
- (ST) SHUNT TRIP
- GFP GROUND FAULT PROTECTION
- (K) KIRK-KEY INTERLOCK
- (M) DIGITAL METER OR SUB-METER INTEGRATED INTO EQUIPMENT
- 1200/5 — CURRENT TRANSFORMER, RATED AS SHOWN
- GROUND CONNECTION
- AUTOMATIC TRANSFER SWITCH
- BUS DUCT PLUG
- [M] ELECTRICAL UTILITY REVENUE METER
- [SPD] SURGE PROTECTION DEVICE
- [GANN] GENERATOR ANNUNCIATOR PANEL
- CIRCUIT BREAKER
- DRAW-OUT CIRCUIT BREAKER
- NEW EQUIPMENT/WIRING
- DEMOLITION EQUIPMENT/WIRING
- EXISTING EQUIPMENT/WIRING
- UNDERGROUND WIRING

DAYLIGHT ZONES

DAYLIGHT ZONE/PRIMARY SECONDARY DAYLIGHT ZONE

DAYLIGHT ZONES SHALL BE INCLUSIVE OF THE FIXTURES WITHIN THE SHADED REGION, AND SHALL BE DIMMED USING ON-BOARD OR EXTERNAL CONTROL IN ACCORDANCE WITH IECC 2021. IECC 2018 OR 2015 MAY BE REFERENCED ONLY WHERE ADOPTED BY LOCAL AHJ.

GENERAL NOTES:

A. NOT ALL SYMBOLS SHOWN ON THIS SYMBOL LIST ARE USED IN THE CONTRACT DOCUMENTS.

MISCELLANEOUS

- [F] SHADED SYMBOLS INDICATE EXISTING DEVICES TO REMAIN, UNLESS OTHERWISE NOTED.
- INDICATES WALL-MOUNTED WHEN ATTACHED TO ANY SYMBOL
- (1) DRAWING NOTE REFERENCE
- [SOS] AREA OF RESCUE ASSISTANCE

FIRE ALARM

- [W] WATER FLOW SWITCH
- [SP] SUPERVISORY SWITCH
- [S] SMOKE DETECTOR - MULTI CRITERIA DETECTOR
- [S]# SMOKE DETECTOR - "SB" INDICATES IN INTEGRAL SOUNDER BASE "D" INDICATES DUCT TYPE "R" INDICATES 120 VOLT RESIDENTIAL TYPE
- [H] HEAT DETECTOR
- [S]BT BEAM DETECTOR TRANSMITTER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
- [S]BR BEAM DETECTOR RECEIVER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
- [S] FIRE ALARM SPEAKER STROBE / CEILING MOUNTED
- [S] FIRE ALARM SPEAKER / CEILING MOUNT.
- [DH] MAGNETIC DOOR HOLDER
- [R] AUXILIARY CONTROL RELAY
- [FH] FIRE FIGHTER HANDSET
- [F] FIRE ALARM PULL STATION +42" AFF
- [F] FIREMAN'S TELEPHONE JACK +42" AFF
- AUDIO VISUAL FIRE ALARM HORN STROBE +80" AFF- 15/75cd U.N.O.
- VISUAL FIRE ALARM (STROBE) CEILING MOUNT - 15/75cd U.N.O.
- AUDIO FIRE ALARM HORN +80" AFF
- [FACP] FIRE ALARM CONTROL PANEL
- [ANN] REMOTE FIRE ALARM ANNUNCIATOR PANEL
- [RPS] REMOTE POWER SUPPLY FOR AUDIO/VISUAL FIRE ALARM DEVICES.
- [FSD] FIRE SMOKE DAMPER
- [•] REMOTE LED INDICATOR LIGHT

SECURITY

- [PB] ADA AUTO DOOR OPEN BUTTON
- [DR] DOOR RELEASE BUTTON
- [CR] WALL MOUNTED CARD READER

REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

SWITCHES AND LIGHTING CONTROL DEVICES

ALL SWITCH TYPES AND SENSORS TYPES FOUND ON 'LIGHTING CONTROL DEVICE SCHEDULE' LOCATED ON ELECTRICAL SCHEDULE SHEETS

SWITCH ANNOTATION AS FOLLOWS:
- X — TYPE, PER SCHEDULE; NO TYPE INDICATES SINGLE POLE TOGGLE SWITCH
- $a,b,c — SWITCH LEGS, PER PLAN, SHOWN HERE AS 3 (a,b,c)

OCCUPANCY SENSOR ANNOTATION, AS FOLLOWS:
- [OCx] OCCUPANCY / VACANCE SENSOR 'x' INDICATES TYPE, PER SCHEDULE
  - CEILING SENSOR
  - WITH BRACKET INDICATES WALL / CORNER MOUNT

LIGHT SENSOR ANNOTATION, AS FOLLOWS:
- [PC] DIGITAL PHOTOCELL
- [DS] DAYLIGHT HARVESTING SENSOR

RELAY PANELS, CONTACTORS, TIME SWITCHES:
- [XX] RELAYS/CONTACTORS/TIMERS/DEVICES WHERE 'XX' INDICATES:
  "LC" LIGHTING CONTRACTOR
  "LCP" LIGHTING CONTROL PANEL
  "TS" TIME SWITCH
  "TC" TIME CLOCK

DRAWING/DETAIL REFERENCE KEY

RE: 1 /E3-2 — REFER TO DRAWING/DETAIL NUMBER 1; SHEET NUMBER E3-2

PANELBOARD NOMENCLATURE

5 DP C H A 1
- 5 — SUB PANEL
- DP — AREA
- C — VOLTAGE: H: 480Y/277V; L: 208Y/120V
- H — BRANCH: NONE: NORMAL; E: LIFE SAFETY; O: EQUIPMENT; C: CRITICAL; R: LEGALLY REQUIRED; X: OPTIONAL STAND-BY
- A — DISTRIBUTION PANEL (IF APPLICABLE)
- 1 — LEVEL

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10-31-25

REVISIONS
2 02-11-26 ISSUE FOR BID & PERMIT
3 04-06-26 OWNER VE

39-25156-00

ELECTRICAL SYMBOL LEGEND

E0.01

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GENERAL LIGHTING DEMOLITION NOTES:

A. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRESENT ON SITE PRIOR TO BIDDING, AND SHALL BE EXPECTED TO PERFORM DEMOLITION AND INSTALL NEW AS SHOWN ON THE DOCUMENTS, INCLUDING SCOPE THAT MAY NOT FEASIBLY BE INDICATED ON PLAN.

B. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING ELECTRICAL DEVICES ON EXISTING CEILING. ALL ABANDONED DEVICES IN CEILING WITHIN SCOPE OF WORK SHALL BE REMOVED.

C. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL TO ALL REMOVED MATERIALS. CONTRACTOR SHALL COORDINATE WITH OWNER FOR LOCATION TO RETURN ANY AND ALL MATERIAL FOR OWNER STORAGE. FAILURE TO TURN OVER REMOVED MATERIAL TO OWNER MAY REQUIRE CONTRACTOR TO REPLACE EQUIPMENT REMOVED WITH NEW.

D. REMOVE ALL ELECTRICAL DEVICES WITHIN DEMOLISHED WALLS INCLUDING SWITCHES AND FIRE ALARM DEVICES. REFER TO ARCHITECTURAL DEMO PLAN. THIS SCOPE MAY NOT BE DIRECTLY IMPLIED BY NOTES ON DEMO PLANS AS IT IS ASSUMED THIS SCOPE EXISTS BASED ON ARCHITECTURAL DEMOLITION PLANS.

E. CONTRACTOR SHALL REVIEW DEMO AND NEW WORK PLANS SIMULTANEOUSLY TO IDENTIFY SCOPE THAT IS TO BE MODIFIED FOR REUSE WITH NEW SCOPE.

F. ALL FIXTURES REMOVED AND REINSTALLED SHALL BE CLEANED, RELAMPED AS REQUIRED AND TOUCHED UP WITH PAINT. ALL DAMAGED PARTS MUST BE REPLACED. THE FIXTURES SHALL THEN BE REINSTALLED AS REQUIRED. PROVIDE NEW DRIVERS AS REQUIRED ALL EXISTING SWITCHING ZONES SHALL REMAIN UNCHANGED UNLESS DIRECTED OTHER ON PLANS.

G. ALL LIGHTING CIRCUITS SHALL BE DEMOLISHED AS REQUIRED BY THE DEMOLITION SCOPE ON THE DOCUMENTS. REPAIR ANY CIRCUITS THAT ARE PARTIALLY DEMOLISHED AND CONTAIN OUTLETS THAT ARE 'NOT IN SCOPE' OR OUTSIDE OF THE LIMITS OF CONSTRUCTION TO WORKING CONDITION. PROVIDE ADDITIONAL CONDUIT, WIRE AND BOXES AS NEEDED.

H. MODIFIED LIGHTING CIRCUITS SHALL NOT EXCEED 50% CIRCUIT LOAD BASED ON CIRCUIT AMPACITY.

I. ALL EXISTING INTERCOM/SPEAKERS SHALL BE REMOVED AND REINSTALLED AS REQUIRED TO FACILITATE RENOVATION. SUBJECT TO EXISTING EQUIPMENT OPERATION CONDITION VERIFICATION.

J. WHERE CEILING REPLACEMENTE IS REQUIRED, ALL EXISTING CEILING DEVICES SHALL BE UNINSTALLED AND REINSTALLED AS REQUIRED, INCLUDING PUBLIC ADDRESS DEVICES, FIRE ALARM DEVICES, LIGHTING CONTROL DEVICES, ETC. REFER TO ARCHITECTURAL PLANS FOR CEILING REPLACEMENT LOCATIONS.

GENERAL ELECTRICAL NOTES:

A. ELECTRICAL DEVICE LOCATIONS SHOWN ARE NOT EXACT. ALL DEVICE LOCATIONS SHALL BE VERIFIED WITH ARCHITECTURAL MILLWORK, CASEWORK, AND GENERAL ELEVATION VIEWS.

B. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES FOR ALL TECHNOLOGY, LOW VOLTAGE, ACCESS CONTROL, SECURITY, SURVEILLANCE, AND OTHER DIVISION 27/28 SCOPE. REFER TO DIVISION 27/28 DRAWINGS AND SPECIFICATIONS FOR ALL WORK REQUIRED. OMISSION OF THIS SCOPE FROM DIV 26 SCOPE OF WORK IS PROHIBITED.

C. HVAC AND PLUMBING EQUIPMENT LOCATIONS ARE NOT EXACT, AND THE EXACT POINT OF CONNECTION TO EQUIPMENT MAY VARY. COORDINATE EXACT ROUGH-IN REQUIREMENTS IN FIELD AND WITH FINAL SUBMITTALS.

D. PROVIDE LABELING OF ALL DEVICES, CONDUIT, PANELS, AND JUNCTION BOXES WITH TYPE-WRITTEN LABEL IDENTIFYING CIRCUIT ON THE BACK OF DEVICE COVER PLATES AND ON COVER OF JUNCTION BOXES IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

E. ROOF PENETRATIONS SHALL BE MINIMIZED. WHERE ABLE, ROUTE ALL CONDUIT FOR ROOF MOUNTED EQUIPMENT THROUGH ROOF CURB. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING NECESSARY WATER PROOFING AROUND ROOF PENETRATIONS WITH ROOFING INSTALLER.

F. ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL ROOMS, ELEVATOR PITS OR SHAFTS, ELEVATOR EQUIPMENT ROOMS, SERVING ELECTRIC DRINKING FOUNTAINS OR VENDING MACHINES, LOCATED WITHIN 6' OF A SINK, LOCATED ABOVE A WET COUNTERTOP OR IN A KITCHEN OR COFFEE BAR SHALL BE GFCI. FEED-THRU GFCI/GFI IS PROHIBITED, ALL GFCI/GFI DEVICES SHALL BE PROVIDED WITH INDIVIDUAL TEST/RESET FEATURES. ALL GFCI RECEPTACLES SHALL BE ACCESSIBLE. PROVIDE SEPARATE RECEPTACLE PROTECTED BY "FACELESS GFCI." REQUIRED TO COMPLY WITH CURRENTLY ADOPTED NEC.

G. MULTI-WIRE HOME RUNS SHALL NOT BE ALLOWED. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. SHARING CONDUIT IS PERMISSIBLE WHERE TOTAL CONDUCTOR AMPACITY DERATING HAS BEEN PERFORMED BY ELECTRICAL CONTRACTOR. THE NEUTRAL IS CONSIDERED CURRENT-CARRYING. ROUTE A MAXIMUM OF THE 3 BRANCH CIRCUITS IN A SINGLE 3/4" RACEWAY. EACH NEUTRAL SHALL BE LABELED TO INDICATE THE CIRCUIT NUMBER CORRESPONDING TO THE HOT CONDUCTOR. THIS LABEL SHALL INCLUDE THE PANELBOARD, JUNCTION BOXES AND OUTLET BOXES.

H. ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE EXCEPT IN MDF/IDF CLOSETS.

I. CONTRACTOR SHALL PROVIDE PLENUM RATED MATERIAL FOR ALL INFRASTRUCTURE LOCATED IN PLENUMS NOT PROTECTED BY CONDUIT OR ANOTHER APPROVED/LISTED FIRE ENCLOSURE.

J. NEW ELECTRICAL EQUIPMENT LOCATED IN ELECTRICAL ROOMS SHALL BE ARRANGED TO COMPLY WITH LATEST NEC ARTICLE 110.

K. ELECTRICAL AND TECHNOLOGY OUTLETS SHOWN IN SOUND RATED PARTITIONS SHALL NOT BE PLACED BACK-TO-BACK. OFFSET AT LEAST ONE STUD AND SEAL FOR SOUND AS REQUIRED.

L. ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. CONTRACTOR PAY PROVIDE NON-TAMPER RESISTANT RECEPTACLES WHERE NOT REQUIRED PER CURRENT NEC ARTICLE 406.

M. ALL VFDS, MOTOR STARTERS, OR DISCONNECT SWITCHES SHALL BE SUPPLIED BY DIVISION 23 AND INSTALLED BY DIVISION 26 UNLESS NOTED OTHERWISE. ELECTRICAL CONNECTIONS SHALL BE PROVIDED BY DIVISION 26. DIVISION 26 SHALL COORDINATE WITH DIVISION 23 PRIOR TO ROUGH-IN.

N. PROVIDE LABELING OF ALL DEVICES, CONDUIT, PANELS, AND JUNCTION BOXES IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

O. PROVIDE TIME DELAY RELAY FOR EACH FAN COIL UNIT (FCU) AND AIR COOLED CONDENSING UNIT (ACCU) TO ALLOW THEM TO START UP IN 30 SECOND INTERVALS IN THE EVENT OF A POWER LOSS.

P. FEED-THRU GFCI/GFI IS PROHIBITED, ALL GFCI/GFI DEVICES SHALL BE PROVIDED WITH INDIVIDUAL TEST/RESET FEATURES.

Q. LABEL ALL CIRCUITS AT ALL JUNCTION BOXES AND OUTLETS (AS DEFINED BY NEC) WITH TYPE-WRITTEN LABEL IDENTIFYING CIRCUIT ON THE BACK OF DEVICE COVER PLATES OR ON COVER OF JUNCTION BOX. IF A BOX HAS MULTIPLE CIRCUITS WITHIN, LABEL ALL CIRCUITS.

R. DRAWINGS ARE DIAGRAMMATIC AND NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL OR THEIR EXACT LOCATION. THE CONTRACTOR SHALL COORDINATE WITH THE VARIOUS TRADES TO AVOID INTERFERENCE BETWEEN DEVICES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE A COMPLETE WORKING SYSTEM WHICH WILL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, AND AHJ.

S. BRANCH CIRCUITS SHALL NOT BE ROUTED UNDER SLAB EXCEPT AS SHOWN. FEEDERS SERVING SWITCHGEAR, DISTRIBUTION PANELS, LIGHTING CLASS PANELBOARDS AND MECHANICAL EQUIPMENT MAY BE INSTALLED UNDER SLAB. FEEDER TO BE ROUTED UNDER SLAB ARE SHOWN AS DASHED LINES, AND OVERHEAD FEEDERS ARE SHOWN AS SOLID, CONTINUOUS LINES. REFER TO FLOOR PLANS AND ELECTRICAL SYMBOLS LEGEND.

T. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL EXHAUST FAN CONTROLS. PROVIDE A FAN SWITCH IF INDICATED BY MECHANICAL.

U. ALL ELECTRICAL CONDUITS SHALL RUN PERPENDICULAR OR PARALLEL TOTHE WALLS, BEAMS, ETC. AND SHALL BE COORDINATED WITH ARHITECT PRIOR TO ROUTING. ALL CONDUITS SHALL BE PAINTED AS DIRECTED BY ARCHITECT.

V. ALL RECEPTACLES DENOTED AS WEATHERPROOF RECEPTACLES SHALL BE WEATHERPROOF WHILE IN USE RECEPTACLES WITH AN OUTLET BOX HOOD LISTED AS "EXTRA DUTY" PER NEC 2023 406.9(B)(1).

W. CONTRACTOR SHALL INSTALL EQUIPMENT GROUNDING CONDUCTOR IN ALL RACEWAYS. INSTALL GROUNDING BUSHINGS WHERE CONCENTRIC OR ECCENTRIC KNOCKOUTS OR REDUCING BUSHINGS ARE USED. BOND ALL BOXES TO EQUIPMENT GROUNDING CONDUCTOR.

X. NO MORE THAN SIX PHASE CONDUCTORS SHALL BE INSTALLED IN A SINGLERACEWAY. ANY COMBINATION OF PHASE CONDUCTORS AND GROUNDED (NEUTRAL)CONDUCTORS AND EQUIPMENT GROUND CONDUCTORS IN ANY RACEWAY SHALL NOT EXCEED SEVEN.

Y. ALL CONDUCTORS SHALL BE COPPER; ALUMINUM IS NOT ACCEPTABLE.

Z. PROVIDE CONCRETE HOUSEKEEPING PAD FOR ALL PAD-MOUNTED TRANSFORMERS AND PAD-MOUNTED SWITCHGEAR.

AA. ELECTRICAL DEVICES SHOWN ARE NOT EXACT. ALL DEVICE LOCATIONS AND MOUNTING HEIGHTS SHALL BE VERIFIED WITH ARCHITECT AND ARCHITECTURAL MILLWORK, CASEWORK, AND GENERAL ELEVATION VIEWS.

BB. PROVIDE POWER FOR ALL FIRE AND SMOKE DAMPERS, BLAST DAMPERS, AND MOTORIZED DAMPERS IN BUILDING. REFER TO MECHANICAL DRAWINGS FOR PROPOSED LOCATIONS. COORDINATE EXACT LOCATIONS AND QUANTITIES WITH DIVISION 23.

GENERAL POWER DEMOLITION NOTES:

A. EXISTING CIRCUIT BREAKERS VACATED DUE TO REMODELING WORK SHALL REMAIN AS SPARE BREAKERS AND LEFT IN THE 'OFF' POSITION.

B. WHERE INDICATED OR REQUIRED BY OTHER TRADES, CONTRACTOR SHALL REMOVE ALL ELECTRICAL CONNECTIONS TO EXISTING PREWIRED FURNITURE. REMOVE CONDUIT AND WIRING BACK TO LAST ACTIVE JUNCTION. ALL DATA CABLING SHALL BE REMOVED.

C. CONTRACTOR SHALL REPORT ANY DAMAGED DEVICES THAT ARE SHOWN AS EXISTING TO REMAIN. ALL DEVICES FOUND TO BE DAMAGED AT THE TIME OF SUBSTANTIAL COMPLETION THAT NOT REPORTED PRIOR TO STARTING WORK SHALL BE REPLACED AT THE CONTRACTOR'S COST.

D. DEMOLISHED POKE-THRUS SHALL BE DISCONNECTED FROM EXISTING BRANCH CIRCUIT, DATA AND/OR AV CONDUCTORS. CAP WITH A UL LISTED FIRE RATED POKE-THRU COVER.

E. EXISTING RECEPTACLE OR MECHANICAL CIRCUITS MODIFIED IN FIELD SHALL NOT EXCEED 80% CAPACITY BASED ON AMP-RATING OF CIRCUIT.

LIGHTING GENERAL NOTES:

A. ALL LIGHTING CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH PERFORMANCE DESCRIPTION INDICATED IN THE LIGHTING CONTROL DEVICE SCHEDULE FOUND ON SCHEDULE SHEETS.

B. MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED UNDER A COMMON COVER PLATE.

C. PROVIDE LABELING OF ALL CONTROL DEVICES. SWITCH PACKS, LIGHT FIXTURES, JUNCTION BOXES, ETC IN ACCORDANCE WITH SPECIFICATIONS.

D. LIGHTING FIXTURE LOCATIONS SHOWN TAKE PRECEDENCE IN CEILING LOCATION TO ALL OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING OTHER TRADES DO NOT IMPACT SPACING AND/OR OVERLAYMENT OF OTHER DEVICES WHERE LIGHT FIXTURES ARE INSTALLED.

E. REFERENCE SYMBOLS LEGEND FOR LIGHT SWITCH AND LIGHTING CONTROL DEVICE NOMENCLATURE AND SWITCH-LEG ANNOTATION OR LABELING.

F. ALL 2X2, 2X4 FIXTURES INSTALLED IN SUSPENDED GRID CEILING SHALL BE PROVIDED WITH (4) SECONDARY SUPPORT WIRES ANCHORED DIRECTLY TO STRUCTURE.

G. ALL ELECTRICAL CONDUITS SHALL RUN PERPENDICULAR OR PARALLEL TO THE WALLS, BEAMS, ETC. AND SHALL BE COORDINATED WITH ARHITECT PRIOR TO ROUTING. ALL CONDUITS SHALL BE PAINTED AS DIRECTED BY ARCHITECT.

H. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES.

I. ALL LIGHT FIXTURES/LENS SHALL BE CLEAN OF DUST/DIRT/DEBRIS AT THE TIME OF SUBSTANTIAL COMPLETION.

J. ROUTE A HOT LEG, SWITCHED LEG, AND A GROUND FOR ALL LINE VOLTAGE SWITCHES.

K. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATIONS WITH DUCTWORK AND PIPING IN MECHANICAL ROOMS.

L. ALL 2X2, 2X4 FIXTURES INSTALLED IN SUSPENDED GRID CEILING SHALL BE PROVIDED WITH (2) SECONDARY SUPPORT WIRES ANCHORED DIRECTLY TO STRUCTURE.

M. ALL NEW DEVICES LOCATED ON EXISTING CONCRETE OR BLOCK WALLS/CEILINGS SHALL HAVE SURFACE MOUNTED CONDUIT. PAINT CONDUIT TO MATCH COLOR OF WALL. COORDINATE WITH ARCHITECT. WHERE DEVICES ARE LOCATED IN SAME LOCATION AS EXISTING DEVICES, REUSE BACK BOXES AND EXISTING CONCEALED CONDUIT WHERE ABLE.

N. WHERE CEILING REPLACEMENT IS REQUIRED, ALL EXISTING CEILING DEVICES SHALL BE UNINSTALLED AND REINSTALLED AS REQUIRED, INCLUDING PUBLIC ADDRESS DEVICES, FIRE ALARM DEVICES, LIGHTING CONTROL DEVICES, ETC. REFER TO ARCHITECTURAL PLANS FOR CEILING REPLACEMENT LOCATIONS.

EMER. LIGHTING GENERAL NOTES:

A. PROVIDE ALL EMERGENCY LIGHT FIXTURES WITH UNSWITCHED HOT LEG AS INDICATED IN NEC 700.12 AND PROVIDE LOCK-ON DEVICE AS REQUIRED BY NEC 700.

B. ROUTE AN UNSWITCHED HOT LEG TO ALL LIGHT FIXTURES DESIGNATED AS EMERGENCY FIXTURES. HOT LEG SHALL ORIGINATE FROM CIRCUIT SERVING NORMAL LIGHTING FIXTURES IN THAT SPACE. UNSWITCHED HOT LEG SHALL CONNECT TO THE NORMAL POWER SENSING LUG ON THE EMERGENCY BATTERY PACK.

C. PROVIDE UN-SWITCHED CIRCUIT TO ALL EXIT SIGNS. CONNECT TO DEDICATED CIRCUIT INDICATED AND PROVIDE LOCK-ON DEVICE AS REQUIRED BY NEC 700.

FIRE ALARM REMODELING NOTES:

A. CONTRACTORS ARE RESPONSIBLE FOR VISITING THE SITE AND VERIFYING THE EXISTING FIRE ALARM SYSTEM AND SCOPE OF WORKED REQUIRED PER PLANS AND SPECIFICATIONS, PRIOR TO BIDDING. VERIFY EXISTING SITE CONDITIONS, MAKE AND MODEL OF CURRENT FIRE ALARM SYSTEM, NECESSITY OF ANY FRONT-END UPGRADES, CODE COMPLIANCE OF EXISTING DEVICES LOCATED WITHIN THE SCOPE OF WORK AREA, TO BE KNOWN BY FIRE ALARM CONTRACTOR UPON DESIGN OF FIRE ALARM SHOP DRAWINGS.

B. THE INTENT OF THIS PLAN IS TO INCORPORATE NEW AND RELOCATED DEVICES WITH THE EXISTING BUILDING FIRE ALARM SYSTEM.

C. ALL NOTIFICATION DEVICES SHALL BE ACTIVATED AS REQUIRED BY APPLICABLE CODE WHEN FIRE ALARM SYSTEM IS INITIATED.

D. IT IS ASSUMED WITH THIS REMODEL THAT THE EXISTING SYSTEM MEETS REQUIRED CODES FOR THE ORIGINAL DATE OF INSTALLATION, AND BUILDING MANAGEMENT HAS MAINTAINED SYSTEM IN COMPLIANCE WITH LIFE SAFETY 101. FOR SEQUENCE OF OPERATIONS AND SPECIFICATIONS, REFER TO ORIGINAL SYSTEM DOCUMENT. COORDINATE WITH BUILDING MANAGEMENT.

E. THE EQUIPMENT SUPPLIER AND INSTALLING CONTRACTOR SHALL BE LICENSED BY THE STATE FIRE MARSHALL TO SELL, INSTALL, AND SERVICE FIRE ALARM SYSTEMS AS REQUIRED BY LOCAL CODES AND INSURANCE CODE.

F. ALL NEW EQUIPMENT REQUIRED FOR THIS REMODEL SHALL BE COMPATIBLE WITH THE EXISTING BUILDING SYSTEM AND IS TO BE A PART OF THE SUBMITTAL PROCESS AS NOTED IN THE ELECTRICAL SPECIFICATIONS FOR THIS PROJECT. PROVIDE ADDITION SYSTEM POWER BOOSTER WHERE REQUIRED.

G. VERIFY QUANTITIES OF NEW DEVICES TO INTERFACE WITH THE EXISTING BUILDING SYSTEM. THE CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGEMENT AND SHALL NOTIFY THE ENGINEER IF ANY CONFLICT EXISTS PREVENTING MODIFICATIONS REQUIRED IN THESE PLANS.

H. THE SYSTEM WHEN MODIFIED, SHALL BE A COMPLETE AND WORKING SYSTEM, AND COMPLY WITH THE MOST RECENT RULES, REGULATIONS, AND ORDINANCES THAT PRESENTLY APPLY TO THIS REMODEL.

I. ANY DEVICE THAT SUFFERS MALFUNCTION DURING RENOVATION SHALL BE REPLACED AT NO COST TO OWNER. CONTRACTOR SHALL TAKE PROPER STEPS TO ENSURE DUST AND DEBRIS DOES NOT NEGATIVELY INTERFERE WITH OPERATION OF ANY EXISTING EQUIPMENT LEFT OPERATIONAL DURING RENOVATION.

FIRE ALARM GENERAL NOTES:

A. CONTRACTOR SHALL SUBMIT LICENSED SEALED FIRE ALARM DRAWINGS TO THE AHJ/PERMIT OFFICE FOR PLAN REVIEW BY MEANS OF DEFERRED SUBMITTAL.

B. ALL CEILING MOUNTED DEVICES SHALL BE CENTERED IN THE CEILING TILE.

C. ALL FIRE ALARM VISUAL AND AUDIO/VISUAL DEVICES SHALL BE CONFIGURED TO PROVIDE CANDELA RATINGS IN ACCORDANCE WITH ADA & NFPA COVERAGES.

D. CONTRACTOR SHALL PROVIDE 120V DEDICATED 20A BRANCH CIRCUIT WITH LOCK-ON BREAKER PROVISIONS TO EACH SPEAKER AMPLIFIER AND VISUAL DEVICE POWER SUPPLIES AS REQUIRED BY FIRE ALARM SHOP DRAWINGS. CONNECT TO EMERGENCY POWER WHEN AVAILABLE.

E. ALL WIRING FOR DEVICES IN EXPOSED STRUCTURE AREAS SHALL BE ROUTED WITHIN CONDUIT. EXPOSED ROUTING SHALL BE AVOIDED. EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.

F. CONTRACTOR SHALL PROVIDE CONDUIT PATHWAYS FOR FIRE ALARM PLENUM CONDUCTORS WHERE ROUTED ABOVE HARD CEILING AREAS. CONDUIT RACEWAYS SHALL ALLOW ACCESS TO CONDUIT AT EACH END IN ACCESSIBLE LOCATIONS ABOVE CEILINGS.

G. LOCATE NEW SMOKE DETECTORS IN THE PATH OF EGRESS , ELECTRICAL, MECHANICAL, IDF ROOMS, STORAGE ROOMS AND OTHER LOCATIONS IN CHILDREN AREAS.

H. DUCT MOUNTED SMOKE DETECTORS SERVING HVAC UNITS WITH 2000 CFM OR GREATER SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION IN RETURN AIR DUCT INSIDE THE BUILDING THE UNIT SERVES. IT IS NOT ACCEPTABLE TO INSTALL DUCT MOUNTED SMOKE DETECTORS AT THE HVAC UNIT ON THE ROOF OR EXTERIOR OF THE BUILDING.

I. LOCATE HEAT DETECTORS IN BREAKROOM AREAS.

J. PROVIDE NEW AUDIO & VISUAL DEVICES PER APPLICABLE CODE.

K. FIRE ALARM SYSTEM SHALL BE PROVIDED PER PERFORMANCE SPEC. CONTRACTOR SHALL REFERENCE SPEC SECTION NUMBER 284600 FOR FIRE ALARM SYSTEM.

GENERAL ELECTRICAL DEMOLITION NOTES:

A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED THE EXISTING JOB SITE CONDITIONS DURING THE BIDDING PERIOD TO OBTAIN THE SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF THE ARCHITECTURAL MODIFICATIONS TO THE EXISTING CONDITIONS. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND OUTLETS, CONSISTING OF FIXTURES, DEVICES, EQUIPMENT OR APPARATUS, WHICH MUST BE REROUTED, RELOCATED OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED SO THAT THE REMODELING WORK MAY BE ACCOMPLISHED. NOT ALL EXISTING OUTLETS ARE NECESSARILY INDICATED ON THE DRAWINGS.

B. CONTRACTOR SHALL REVIEW DEMOLITION AND NEW WORK PLANS SIMULTANEOUSLY TO IDENTIFY SCOPE THAT IS TO BE MODIFIED FOR REUSE WITH NEW SCOPE.

C. CONTRACTOR SHALL VERIFY AND DOCUMENT EXISTING CONDITIONS OF ALL OUTLETS THAT ARE INDICATED OR REQUIRED TO BE REMOVED AND REINSTALLED TO FACILITATE THE WORK REQUIRED BY ALL TRADES. THE CONTRACTOR SHALL REPLACE NON-OPERABLE DEVICES AT NO ADDITIONAL COST TO THE OWNER. DOCUMENT OUTLETS IN NON-WORKING CONDITION PRIOR TO REMOVAL AND NOTIFY THE OWNER.

D. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL TO ALL REMOVED MATERIALS. CONTRACTOR SHALL COORDINATE WITH OWNER FOR LOCATION TO RETURN ANY AND ALL MATERIAL FOR OWNER STORAGE. FAILURE TO TURN OVER REMOVED MATERIAL TO OWNER MAY REQUIRE CONTRACTOR TO REPLACE EQUIPMENT REMOVED WITH NEW.

E. REMOVE ALL ELECTRICAL DEVICES WITHIN DEMOLISHED WALLS INCLUDING RECEPTACLES, DATA/TELEPHONE DROPS, P/A DEVICES, CONDUIT, AND WIRING. ALL EXISTING DEVICES MAY NOT BE DOCUMENTED ON PLANS. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR DEMOLISHED WALLS. REMOVE CONDUIT AND WIRING BACK TO PANEL OR LAST ACTIVE JUNCTION BOX.

F. ALL ABANDONED CONDUIT AND BOXES FOUND IN CRAWLSPACES, CEILINGS SPACES, CHASES, OR UTILITY SPACES SHALL BE REMOVED. EXISTING UNDERGROUND CONDUIT MAY BE ABANDONED. CAP ABANDONED UNDERGROUND CONDUIT FLUSH WITH GRADE.

G. OWNER SHALL RESERVE THE RIGHT TO CLAIM ALL EQUIPMENT AND CABLING REMOVED DURING DEMOLITION.

H. RE-ESTABLISH SERVICE TO ALL OUTLETS THAT MAY BE INTERRUPTED DUE TO REMODELING WORK.

I. PROVIDE ALL APPURTENANCES REQUIRED TO REROUTE, RELOCATE, REMOVE OR REINSTALL ALL ITEMS REQUIRED BY SCOPE OF REMODEL.

J. ALL ABANDONED MATERIAL SHALL BE REMOVED FROM JOBSITE PRIOR TO PROJECT COMPLETION.

K. IDENTIFICATION AND LABELING SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATIONS.

L. CIRCUIT NUMBERS ARE FOR PLAN REFERENCE ONLY. CONTRACTOR SHALL RELABEL ALL CIRCUIT DIRECTORIES WITH LOAD NAMES FOR ALL EXISTING AND NEW PANELS THAT WERE MODIFIED WITHIN THIS PROJECT.

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ELECTRICAL GENERAL NOTES

E0.11

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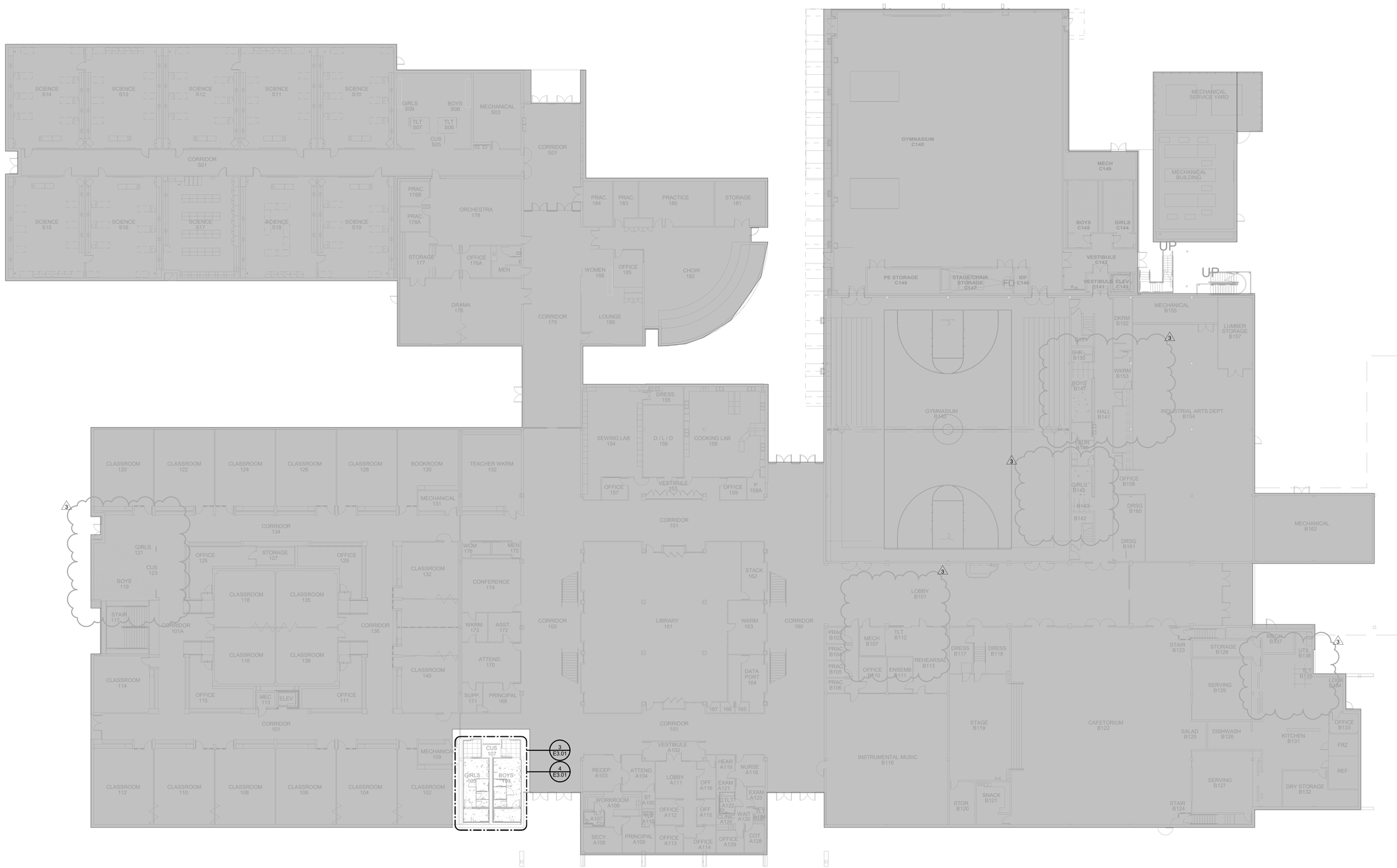

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1 LEVEL 01 - COMPOSITE ELECTRICAL LIGHTING PLAN - DEMO AND NEW

1/16" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

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LEVEL 01 - COMPOSITE ELECTRICAL LIGHTING PLAN - DEMO & NEW

E1.11

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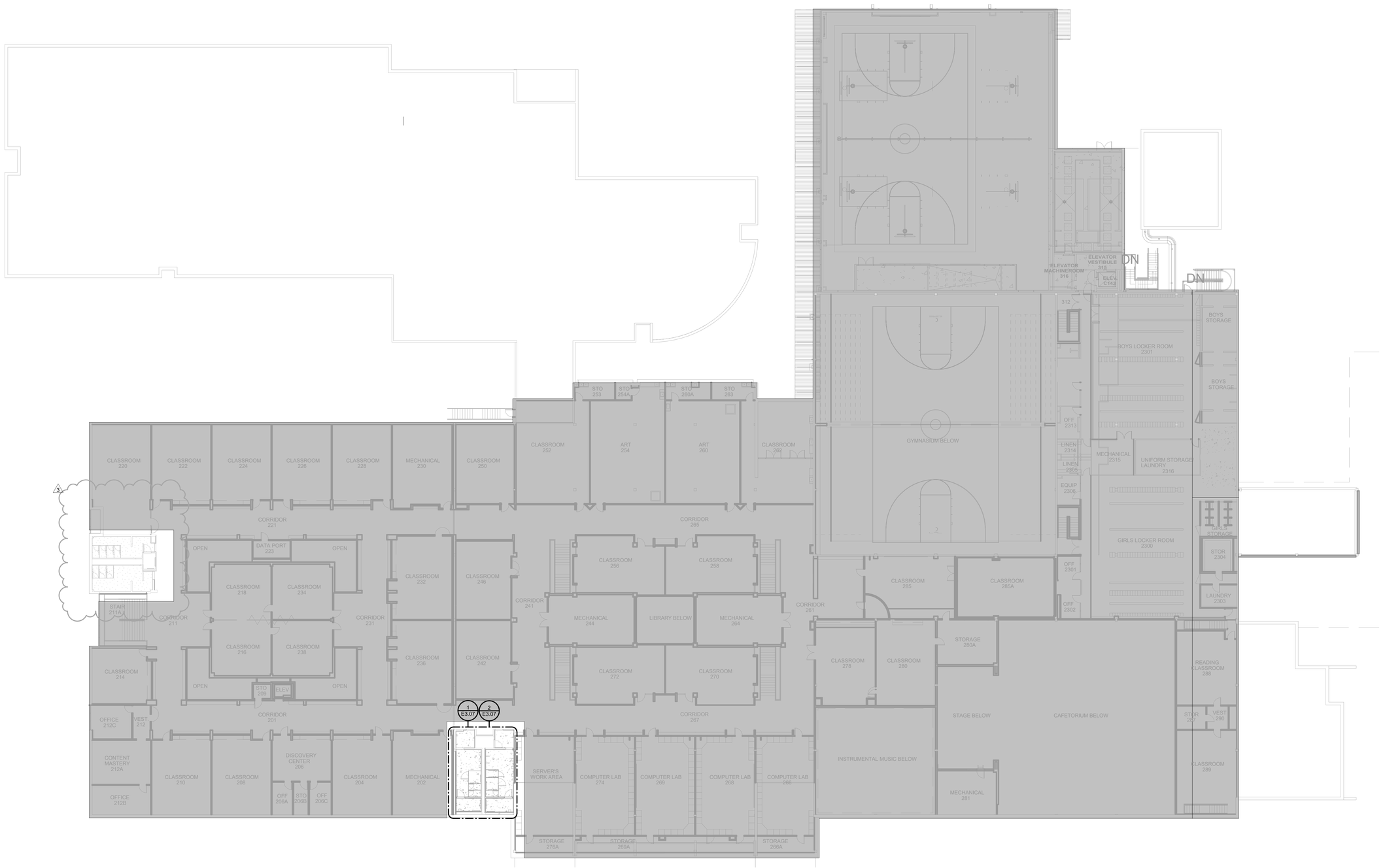

1 LEVEL 02 - COMPOSITE ELECTRICAL LIGHTING PLAN - DEMO AND NEW

1/16" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

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LEVEL 02 - COMPOSITE ELECTRICAL LIGHTING PLAN - DEMO & NEW

E1.21

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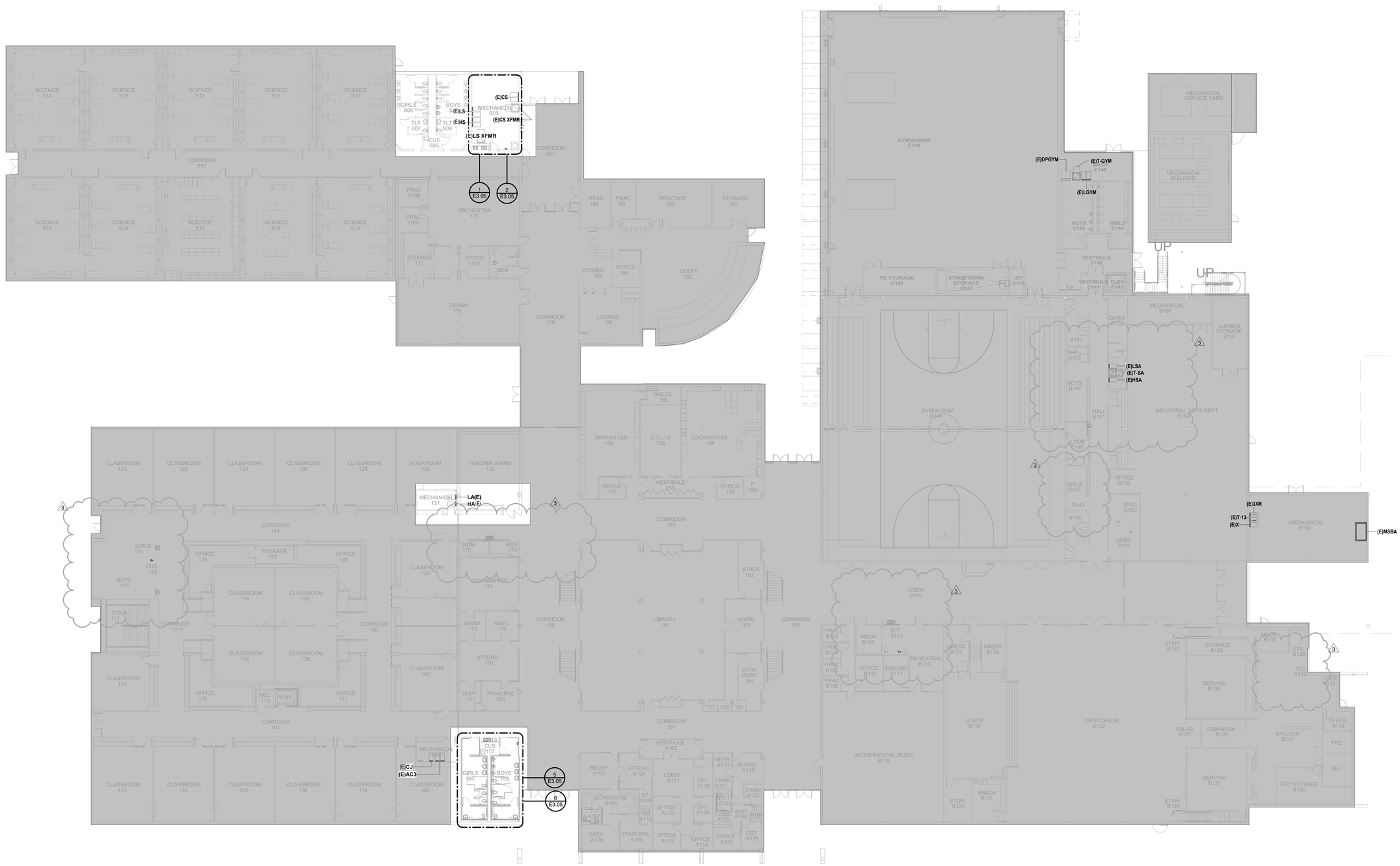

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TRUE

1 LEVEL 01 - COMPOSITE ELECTRICAL POWER PLAN - DEMO AND NEW

1/16" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

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LEVEL 01 - COMPOSITE ELECTRICAL POWER PLAN - DEMO & NEW

E2.11

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1 LEVEL 02 - COMPOSITE ELECTRICAL POWER PLAN - DEMO AND NEW

1/16" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

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LEVEL 02 - COMPOSITE ELECTRICAL POWER PLAN - DEMO & NEW

E2.21

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GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

E2.1 ALL NEW LIGHTING FIXTURES AND DEVICES LOCATED ON EXISTING CONCRETE OR BLOCK WALLS/CEILINGS SHALL HAVE SURFACE MOUNTED CONDUIT. PAINT CONDUIT TO MATCH COLOR OF WALL. COORDINATE WITH ARCHITECT. WHERE DEVICES ARE LOCATED IN SAME LOCATION AS EXISTING DEVICES, REUSE BACK BOXES AND EXISTING CONCEALED CONDUIT WHERE ABLE.

E8.1 EXISTING LIGHTING AND LIGHTING CONTROLS IN SPACE SHALL BE REMOVED. EXISTING LIGHTING CIRCUIT SHALL REMAIN AND BE REUSED. REFERENCE NEW PLANS FOR NEW LIGHTING LAYOUTS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

E8.2 APPROXIMATE LOCATION OF EXISTING SWITCH. EXISTING SWITCH SHALL BE DEMOLISHED AND NEW PROVIDED, REFER TO NEW PLANS. NEW SWITCH SHALL BE LOCATED IN SAME LOCATION AS REMOVED SWITCH. EXISTING SWITCH LOCATIONS SHALL BE FIELD VERIFIED, SWITCHES SHOWN ON PLAN FOR REFERENCE ONLY.

E10.1 APPROXIMATE LOCATION OF NEW SWITCH. NEW SWITCH SHALL BE LOCATED IN SAME LOCATION AS REMOVED SWITCH. EXISTING SWITCH LOCATIONS SHALL BE FIELD VERIFIED, SWITCHES SHOWN ON PLAN FOR REFERENCE ONLY.

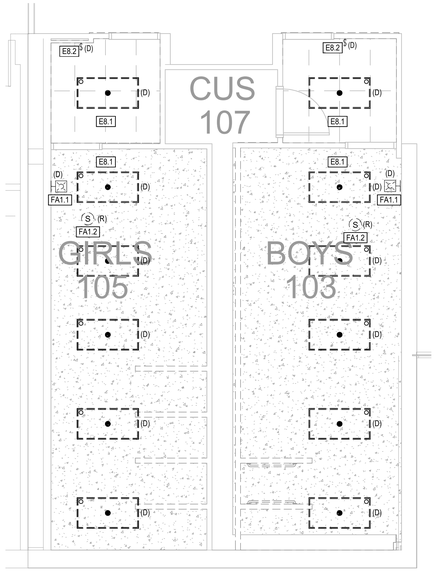
E11.1 PROVIDE NEW LED LIGHTING AND NEW LIGHTING CONTROLS IN THIS SPACE AS SHOWN ON PLANS. RECONNECT TO EXISTING LIGHTING CIRCUIT AND TO NEW CONTROLS. EXTEND CONDUIT/CONDUCTORS AS REQUIRED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

FIRE ALARM KEYED NOTES

FA1.1 ALL EXISTING WALL MOUNTED FIRE ALARM DEVICES SHALL BE REMOVED AND NEW CEILING MOUNTED DEVICES SHALL BE PROVIDED. REFER TO NEW PLANS FOR NEW LAYOUTS. RETURN TO OWNER ALL REMOVED DEVICES.

FA1.2 ALL EXISTING CEILING MOUNTED PUBLIC ANNOUNCEMENT 'PA' SPEAKERS SHALL BE REMOVED AND RELOCATED, REFER TO NEW PLANS FOR NEW LAYOUTS.

FA1.3 PROVIDE NEW CEILING MOUNTED FIRE ALARM DEVICES AND RELOCATED PUBLIC ANNOUNCEMENT 'PA' SPEAKER(S) AS SHOWN ON PLANS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK. NEW FIRE ALARM DEVICE(S) SHALL MATCH EXISTING IN STYLE AND FUNCTIONALITY.



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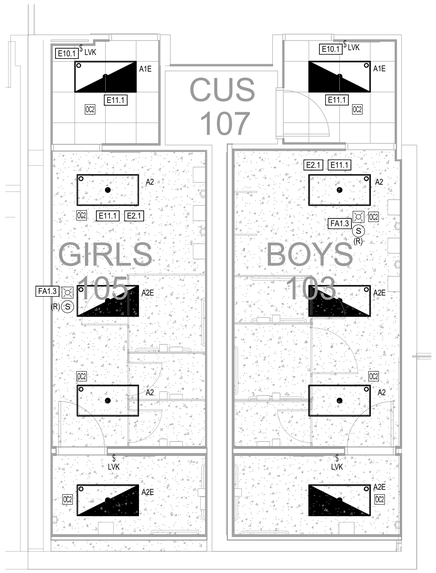
3 LEVEL 01 - DEMOLITION ELECTRICAL LIGHTING PLAN - BOYS 103 & GIRLS 105

1/4" = 1'-0"



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4 LEVEL 01 - ELECTRICAL LIGHTING PLAN - BOYS 103 & GIRLS 105

1/4" = 1'-0"

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LEVEL 01 - ELECTRICAL PLANS - ENLARGED

E3.01

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GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

☐ ELECTRICAL KEYED NOTES

☐ FIRE ALARM KEYED NOTES

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LEVEL 01 - ELECTRICAL PLANS - ENLARGED

E3.02

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GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

☐ ELECTRICAL KEYED NOTES

☐ FIRE ALARM KEYED NOTES

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LEVEL 01 - ELECTRICAL PLANS - ENLARGED

E3.03

3

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

☐ ELECTRICAL KEYED NOTES

☐ FIRE ALARM KEYED NOTES

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LEVEL 01 - ELECTRICAL PLANS - ENLARGED

E3.04

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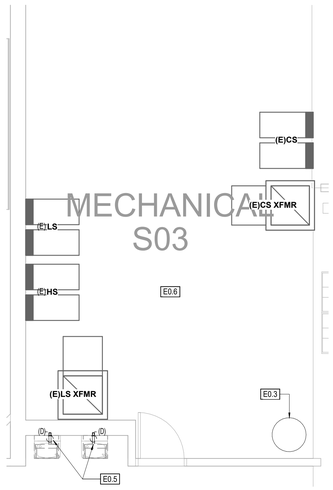

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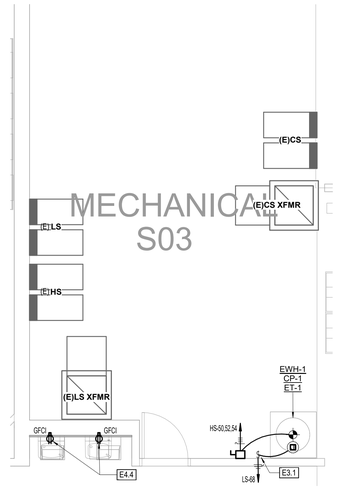
1 LEVEL 01 - DEMOLITION ELECTRICAL POWER PLAN - MECHANICAL S03

1/4" = 1'-0"



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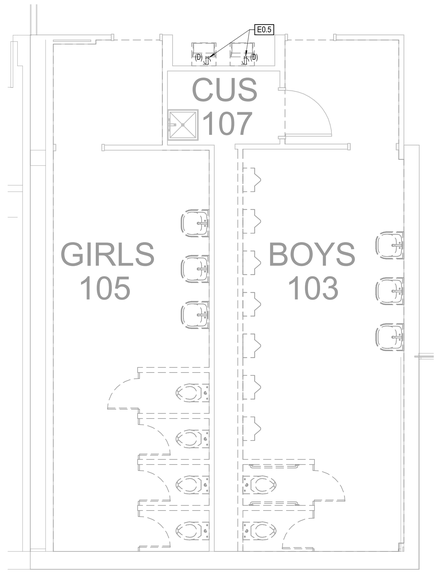
2 LEVEL 01 - ELECTRICAL POWER PLAN - MECHANICAL S03

1/4" = 1'-0"



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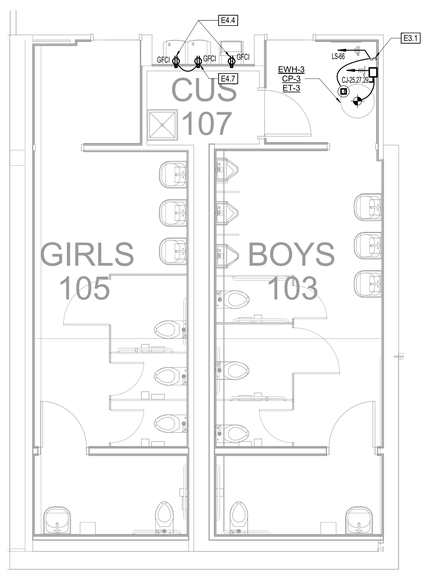
5 LEVEL 01 - DEMOLITION ELECTRICAL POWER PLAN - BOYS 103 & GIRLS 105

1/4" = 1'-0"



N TRUE

6 LEVEL 01 - ELECTRICAL POWER PLAN - BOYS AND GIRLS 105

1/4" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

E0.3 EXISTING PLUMBING EQUIPMENT BEING DEMOLISHED AND REPLACED. CONTRACTOR SHALL DEMOLISH EXISTING ELECTRICAL EQUIPMENT AND CIRCUIT BREAKER SERVING EWH, CIRCULATION PUMP, AND TIME SWITCH. REMOVE CONDUIT AND WIRE CIRCUITS BACK TO PANEL.

E0.5 EXISTING DRINKING FOUNTAIN BEING DEMOLISHED AND REPLACED WITH NEW. CONTRACTOR SHALL DEMOLISH EXISTING RECEPTACLE AND PROVIDE NEW. REFER TO NEW ELECTRICAL PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.

E0.6 EXISTING ELECTRICAL PANELS AND TRANSFORMERS WITHIN THIS ROOM ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

E3.1 PROVIDE 120V POWER TO CIRCULATION PUMP AND TIME SWITCH. PROVIDE ASSOCIATED DISCONNECTS AS REQUIRED. COORDINATE EXACT EQUIPMENT REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

E4.4 APPROXIMATE LOCATION OF NEW DRINKING FOUNTAIN REPLACING EXISTING ONE. PROVIDE NEW GFCI ELECTRICAL RECEPTACLE AS SHOWN ON PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED. REFER TO ELECTRICAL FOUNTAIN DETAIL #/E5.01. PROVIDE REMOTE GFCI TEST BUTTON ADJACENT TO DRINKING FOUNTAIN AT NORMAL RECEPTACLE HEIGHT IN AN ACCESSIBLE LOCATION. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.

E4.7 PROVIDE NEW GFCI TYPE DUPLEX RECEPTACLE. EXISTING CIRCUIT, CONDUIT AND CONDUCTORS SHALL BE REUSED. REFER TO DEMOLITION PLANS FOR ADDITIONAL DETAILS.

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BM RM/TF/GL/BK/MS TN/JAL

ALIEF MIDDLE - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

4416 COOK ROAD
HOUSTON, TX 77072

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39-25156-00

LEVEL 01 - ELECTRICAL PLANS - ENLARGED

E3.05

Autodesk Docs://39-25156-00 Alief ISD restrm reno/_250076_ALIEF MS RESTROOM RENO_MEP24.rvt
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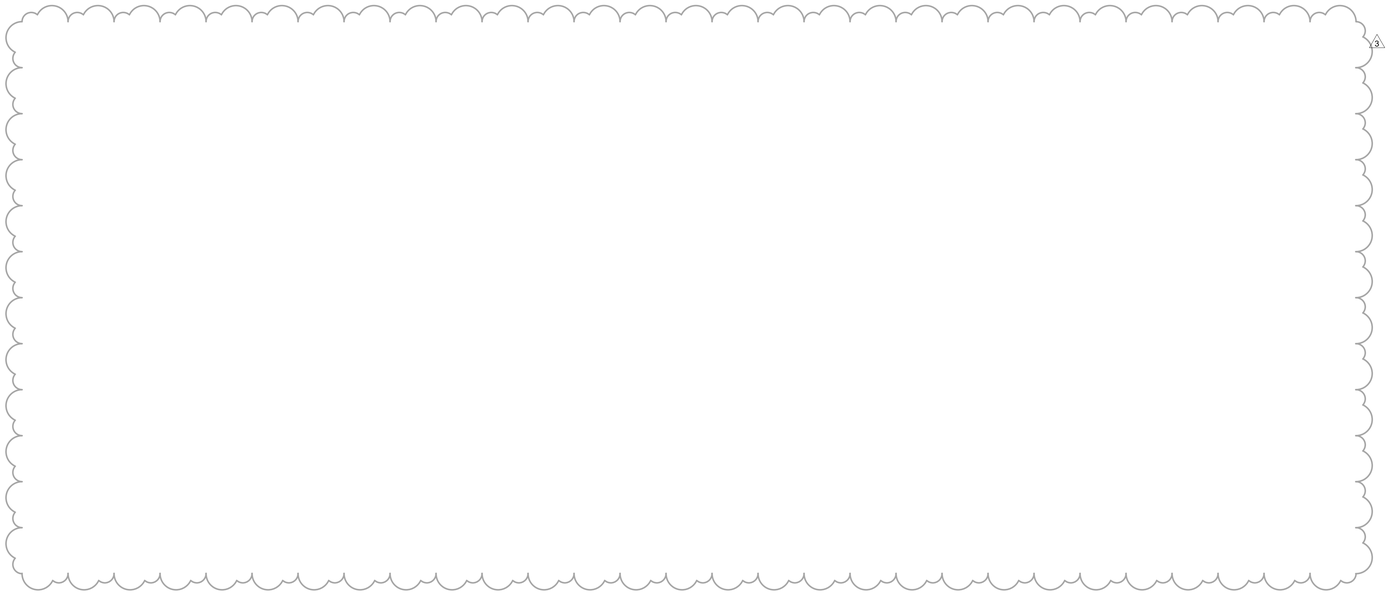
GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

☐ ELECTRICAL KEYED NOTES



☐ FIRE ALARM KEYED NOTES

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ALIEF INDEPENDENT SCHOOL DISTRICT

4415 COOK ROAD
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LEVEL 01 - ELECTRICAL PLANS - ENLARGED

E3.06

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

E2.1 ALL NEW LIGHTING FIXTURES AND DEVICES LOCATED ON EXISTING CONCRETE OR BLOCK WALLS/CEILINGS SHALL HAVE SURFACE MOUNTED CONDUIT. PAINT CONDUIT TO MATCH COLOR OF WALL. COORDINATE WITH ARCHITECT. WHERE DEVICES ARE LOCATED IN SAME LOCATION AS EXISTING DEVICES, REUSE BACK BOXES AND EXISTING CONCEALED CONDUIT WHERE ABLE.

E8.1 EXISTING LIGHTING AND LIGHTING CONTROLS IN SPACE SHALL BE REMOVED. EXISTING LIGHTING CIRCUIT SHALL REMAIN AND BE REUSED. REFERENCE NEW PLANS FOR NEW LIGHTING LAYOUTS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

E8.2 APPROXIMATE LOCATION OF EXISTING SWITCH. EXISTING SWITCH SHALL BE DEMOLISHED AND NEW PROVIDED. REFER TO NEW PLANS. NEW SWITCH SHALL BE LOCATED IN SAME LOCATION AS REMOVED SWITCH. EXISTING SWITCH LOCATIONS SHALL BE FIELD VERIFIED, SWITCHES SHOWN ON PLAN FOR REFERENCE ONLY.

E10.1 APPROXIMATE LOCATION OF NEW SWITCH. NEW SWITCH SHALL BE LOCATED IN SAME LOCATION AS REMOVED SWITCH. EXISTING SWITCH LOCATIONS SHALL BE FIELD VERIFIED, SWITCHES SHOWN ON PLAN FOR REFERENCE ONLY.

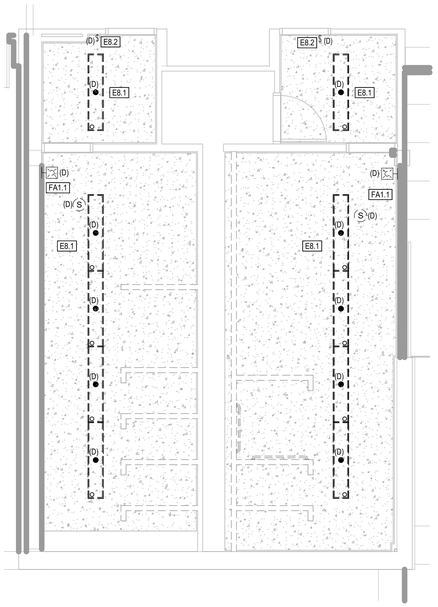
ELECTRICAL KEYED NOTES

E11.1 PROVIDE NEW LED LIGHTING AND NEW LIGHTING CONTROLS IN THIS SPACE AS SHOWN ON PLANS. RECONNECT TO EXISTING LIGHTING CIRCUIT AND TO NEW CONTROLS. EXTEND CONDUIT/CONDUCTORS AS REQUIRED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

FIRE ALARM KEYED NOTES

FA1.1 ALL EXISTING WALL MOUNTED FIRE ALARM DEVICES SHALL BE REMOVED AND NEW CEILING MOUNTED DEVICES SHALL BE PROVIDED. REFER TO NEW PLANS FOR NEW LAYOUTS. RETURN TO OWNER ALL REMOVED DEVICES.

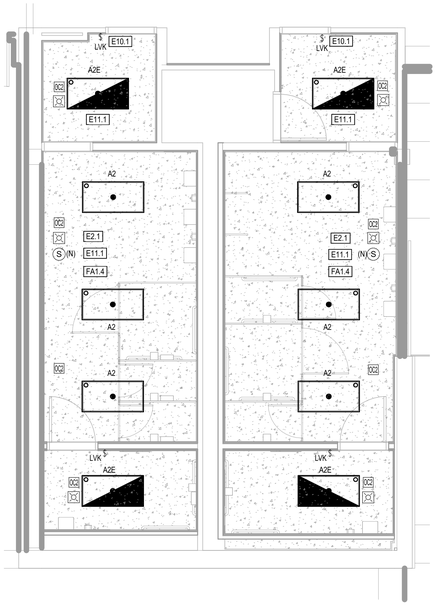
FA1.4 PROVIDE NEW CEILING MOUNTED FIRE ALARM DEVICES AND NEW PUBLIC ANNOUNCEMENT 'PA' SPEAKER(S) AS SHOWN ON PLANS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK. NEW FIRE ALARM DEVICE(S) AND PUBLIC ANNOUNCEMENT 'PA' SPEAKER(S) SHALL MATCH EXISTING IN STYLE AND FUNCTIONALITY.



N TRUE

1 LEVEL 02 - DEMOLITION ELECTRICAL LIGHTING PLAN - BOYS 203 & GIRLS 205

1/4" = 1'-0"



N TRUE

2 LEVEL 02 - ELECTRICAL LIGHTING PLAN - BOYS 203 & GIRLS 205

1/4" = 1'-0"

3

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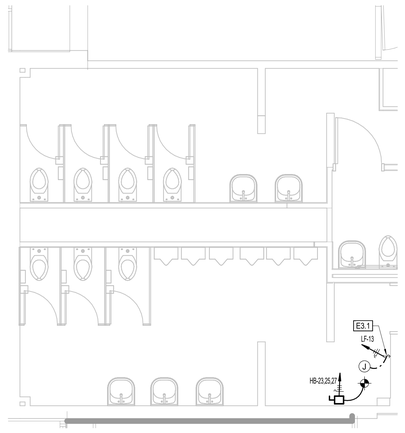

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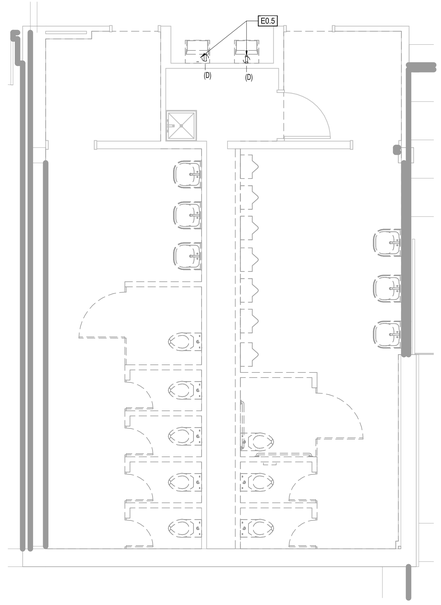
2 LEVEL 02 - ELECTRICAL POWER PLAN - RR 5-6

1/4" = 1'-0"



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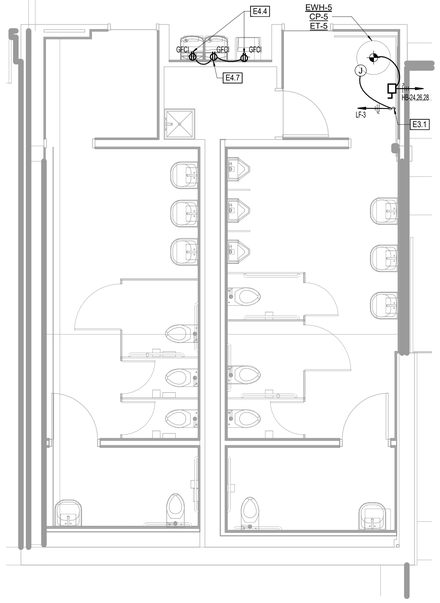
3 LEVEL 02 - DEMOLITION ELECTRICAL POWER PLAN - RR 1-2

1/4" = 1'-0"



N TRUE

4 LEVEL 02 - ELECTRICAL POWER PLAN - RR 1-2

1/4" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

E0.5 EXISTING DRINKING FOUNTAIN BEING DEMOLISHED AND REPLACED WITH NEW. CONTRACTOR SHALL DEMOLISH EXISTING RECEPTACLE AND PROVIDE NEW, REFER TO NEW ELECTRICAL PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.

E3.1 PROVIDE 120V POWER TO CIRCULATION PUMP AND TIME SWITCH. PROVIDE ASSOCIATED DISCONNECTS AS REQUIRED. COORDINATE EXACT EQUIPMENT REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

E4.4 APPROXIMATE LOCATION OF NEW DRINKING FOUNTAIN REPLACING EXISTING ONE. PROVIDE NEW GFCI ELECTRICAL RECEPTACLE AS SHOWN ON PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED. REFER TO ELECTRICAL FOUNTAIN DETAIL #6/ES.01. PROVIDE REMOTE GFCI TEST BUTTON ADJACENT TO DRINKING FOUNTAIN AT NORMAL RECEPTACLE HEIGHT IN AN ACCESSIBLE LOCATION. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.

E4.7 PROVIDE NEW GFCI TYPE DUPLEX RECEPTACLE. EXISTING CIRCUIT, CONDUIT AND CONDUCTORS SHALL BE REUSED. REFER TO DEMOLITION PLANS FOR ADDITIONAL DETAILS.

3

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LEVEL 02 - ELECTRICAL PLANS - ENLARGED

E3.08

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LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	MOUNTING	LAMPS	VOLTAGE	WATTAGE	DESCRIPTION
A1	DAYBRITE	2FPZ-48L-835-4-DS-UNV-DIM-FSK24	RECESSED	3500K LED	277 V	37 VA	2X4 LED FLAT PANEL WITH 4800 LUMENS AND 0-10V DIMMING.
A1E	DAYBRITE	2FPZ-48L-835-4-DS-UNV-DIM-FSK24	RECESSED	3500K LED	277 V	37 VA	2X4 LED FLAT PANEL WITH 4800 LUMENS AND 0-10V DIMMING. PROVIDE 90 MINUTE BATTERY BACKUP.
A2	DAYBRITE	2FPZ-48L-835-4-DS-UNV-DIM-FSK24	SURFACE	3500K LED	277 V	37 VA	2X4 LED FLAT PANEL WITH 4800 LUMENS AND 0-10V DIMMING.
A2E	DAYBRITE	2FPZ-48L-835-4-DS-UNV-DIM-FSK24	SURFACE	3500K LED	277 V	37 VA	2X4 LED FLAT PANEL WITH 4800 LUMENS AND 0-10V DIMMING. PROVIDE 90 MINUTE BATTERY BACKUP.
B1	DAYBRITE	2FPZ-45L-835-2-DS-UNV-DIM-FSK22	RECESSED	3500K LED	277 V	36 VA	2X2 LED FLAT PANEL WITH 4500 LUMENS AND 0-10V DIMMING.
B1E	DAYBRITE	2FPZ-45L-835-2-DS-UNV-DIM-FSK22	RECESSED	3500K LED	277 V	36 VA	2X2 LED FLAT PANEL WITH 4500 LUMENS AND 0-10V DIMMING. PROVIDE 90 MINUTE BATTERY BACKUP.

NOTES:
1. LIGHTING FIXTURE CATALOG NUMBERS AND DESCRIPTIONS ARE SCHEDULED FOR ESTABLISHING QUALITY, APPEARANCE AND PERFORMANCE OF THE FIXTURES AS REQUIRED BY THE DESIGN. EXACT CATALOG NUMBERS DESCRIBING MOUNTING CONDITIONS, FINISHES AND REQUIREMENTS RELATED TO TRIMS AND LENS FOR ALL FIXTURES SHALL BE CONFIRMED (BY THE CONTRACTOR) WITH THE ROOM FINISH SCHEDULE AND REFLECTED CEILING PLANS, INCLUDING GRID TYPES, ON THE ARCHITECTURAL DRAWINGS PRIOR TO BIDDING. FIXTURES SHALL BE SUBMITTED ACCORDING TO THE CONDITIONS INDICATED ON THE ARCHITECTURAL PLANS. REFER TO THE WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. THE NEW LIGHT FIXTURES SCHEDULED ARE THE BASIS OF DESIGN. IT IS NOT INTENDED TO LIMIT COMPETITION FROM EQUAL MANUFACTURERS. ALL BIDDERS SHALL SUBMIT THEIR PROPOSED LIGHT FIXTURES IN SUBMITTAL FORM A MINIMUM OF 10 BUSINESS DAYS PRIOR TO BID DATE FOR REVIEW. APPROVED LIGHT FIXTURES WILL BE ISSUED IN AN ADDENDUM.

LIGHTING CONTROLS DEVICE SCHEDULE

TYPE	DESCRIPTION	COMMENTS
S S^3 S^4 S^K	LINE VOLTAGE SWITCH.	'3' INDICATES THREE WAY SWITCHING. '4' INDICATES FOUR WAY SWITCHING. 'K' INDICATES SWITCH SHALL BE KEYED SWITCH.
S^{OC1}	LINE VOLTAGE WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR	SENSOR SHALL BE SET TO VACANCY MODE
S^{OC2}	LINE VOLTAGE WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DUAL RELAYS.	SENSOR SHALL BE SET TO VACANCY MODE. ONE RELAY SHALL SERVE 120 VOLT LIGHTING IN AREA INDICATED, AND ONE RELAY SHALL SERVE 277 VOLT LIGHTING.
S^{OCD}	LOW VOLTAGE OC SENSOR SWITCH WITH 0-10V DIMMER	SENSOR SHALL BE SET TO VACANCY MODE
S^{LV} S^{LVK}	LOW VOLTAGE MANUAL CONTROL.	CONNECT TO POWER PACK OR ROOM CONTROLLER IF OCCUPANCY SENSORS ARE INDICATED ON PLAN. PROVIDE MULTI-BUTTON SWITCH AS REQUIRED PER SWITCH LEGS SHOWN ON PLANS. 'K' INDICATES SWITCH SHALL BE KEYED SWITCH.
S^{D}	LOW VOLTAGE SWITCH WITH 0-10V DIMMER	PROVIDE MULTI-BUTTON SWITCH AS REQUIRED PER SWITCH LEGS SHOWN ON PLANS. PROVIDE POWER PACKS OR ROOM CONTROLLERS AS REQUIRED.
OC1	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO VACANCY MODE. PROVIDE POWER PACKS AS NEEDED.
OC2	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO OCCUPANCY MODE. PROVIDE POWER PACKS AS REQUIRED.

NOTES:
1. WATTSTOPPER IS THE BASIS OF DESIGN.
2. THE LIGHTING CONTROLS SCHEDULED ARE THE BASIS OF DESIGN. IT IS NOT INTENDED TO LIMIT COMPETITION FROM EQUAL MANUFACTURERS. ALL BIDDERS SHALL SUBMIT THEIR PROPOSED LIGHTING CONTROLS IN SUBMITTAL FORM A MINIMUM OF 10 BUSINESS DAYS PRIOR TO BID DATE FOR REVIEW. APPROVED LIGHTING CONTROL SYSTEMS WILL BE ISSUED IN AN ADDENDUM.
3. BASIS OF DESIGN SHALL BE A HARD-WIRED TYPE SYSTEM, UNLESS NOTED OTHERWISE.

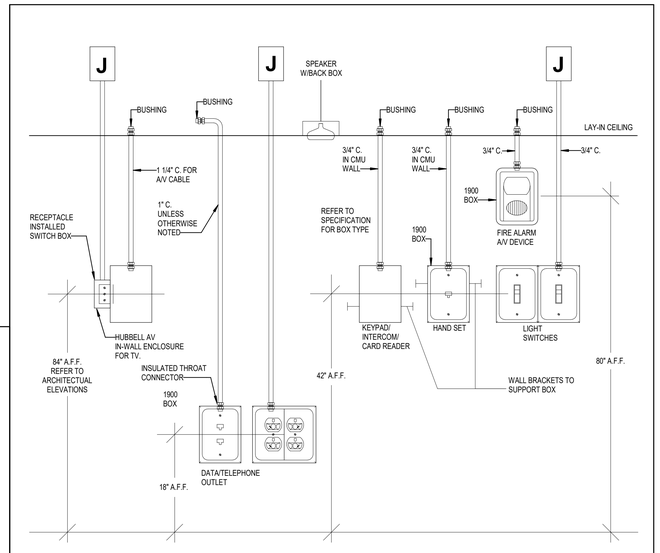
2021 STANDARD SEQUENCE OF OPERATIONS

ROOM TYPE	AUTO ON1	MANUAL ON (VACANCY)	AUTO OFF (20MIN MAX)	PARTIAL OFF AT NORMAL HOURS2	AUTO OFF: AFTER HOURS (30MIN MAX)	TIME ON	TIME OFF	ASTRONOMIC or PHOTOCELL ON/OFF	AUTO STEP CONTROL WITH OFF4	AUTO CONTINUOUS DIM WITH OFF4, 5	MANUAL DI-LEVEL REDUCTION CONTROL6	MANUAL CONTINUOUS DIM CONTROL	MANUAL ON/OFF SWITCH	MANUAL DIMMER SWITCH	DISPLAY, ACCENT, TASK CONTROL7	AUTOMATIC RECEPTACLE CONTROL	SEQUENCE OF OPERATION
	OCCUPANCY SENSOR					TIME SWITCH			DAYLIGHT CTL		LT REDUCT		MANUAL CONTROL				
Spaces (≤ 300 sq ft)	50%		20 min							D	●	D	●	D			Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; Where >150W in daylight area, use continuous dimming daylighting control and dimmer switch.
Janitor Closet		●	20 min										●				Manual On; Occupancy sensor Auto Off; Manual control device.
Restroom	100%		20 min										●				Auto On 100%. Occupancy sensor Auto Off; Manual control.

v1 - 85193022

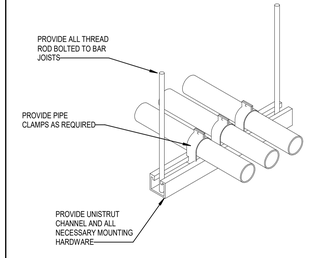
●■ Designation for code compliant default control design for spaces without daylighting control
D = Where daylighting control is required, "D" designation indicates controls required in the space for code compliance design
CK = Captive Key Switch system for use in Hotel/Motel and Guest Suites

NOTES: 1 May be Manual On or Auto On to ≤50%. Full Auto On only permitted in Corridors, Interior Parking, Stairways, Lobbies, Restrooms, Open Office, Library Stacks, Locker Rooms.
2 Partial Auto Off must reduce lighting by ≥50% during normal operating hours in corridors, warehouse aisles and open areas. Each aisle must be independently controlled. Full Auto Off complies with Partial Auto Off.
3 Exterior / Parking / Site lighting must Auto Off during daylight hours, reduce by at least 50% between midnight and 6AM or from one hour after business closing until 6AM before business opening.
4 Automatic daylight control required where >150W lighting power in daylight or sidelight daylight area. Continuous dimming with Off. Assumes 0-10V dimmable fixtures in daylight and non-daylight area unless otherwise specified.
5 Code requires automatic continuous dimming with full Off capability in daylighting areas of all space types.
6 Manual bilevel lighting reduction control must allow ≥50% of the general lighting to be manually turned off by a control device located in the space.
7 Display, Accent and Task lighting must have manual control independent from general lighting. Auto Off with occupancy sensors or time switch control required. Exempt from automatic daylighting control.

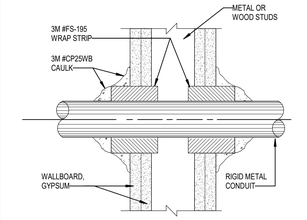


NOTE: COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.

1 TYPICAL DEVICE ELEVATIONS E1601

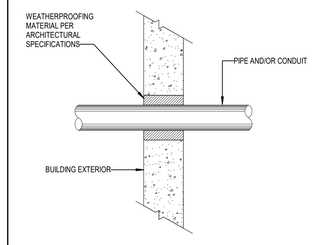


2 UNISTRUT CONDUIT E1601

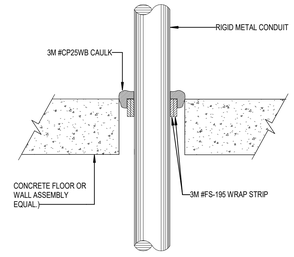


NOTE: FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION

3 2 HR. GYPSUM WALLBOARD PIPE PENETRATION E1601

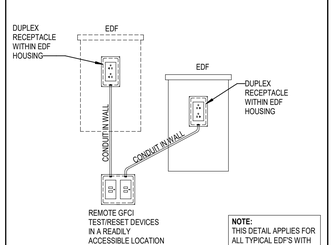


4 PIPE AND/OR CONDUIT PENETRATION E1619



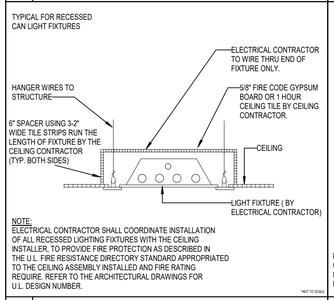
NOTE: FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.

5 2, 3 AND 4 HR. PENETRATIONS FOR CONCRETE E1619



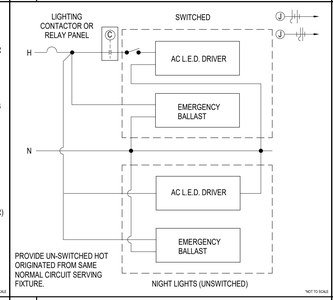
NOTE: THIS DETAIL APPLIES FOR ALL TYPICAL EDF'S WITH THIS CONFIGURATION

6 ELEC. DRINKING FOUNTAIN E1608

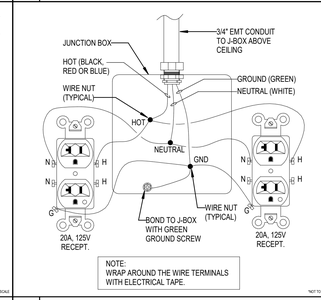


NOTE:
ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL RECESSED LIGHTING FIXTURES WITH THE CEILING INSTALLER. TO PROVIDE FIRE PROTECTION AS DESCRIBED IN THE U.L. FIRE RESISTANCE DIRECTORY STANDARD APPROPRIATED TO THE CEILING ASSEMBLY INSTALLED AND FIRE RATING REQUIRE. REFER TO THE ARCHITECTURAL DRAWINGS FOR U.L. DESIGN NUMBER.

13 FIRE RATED LIGHT FIXTURE E1617

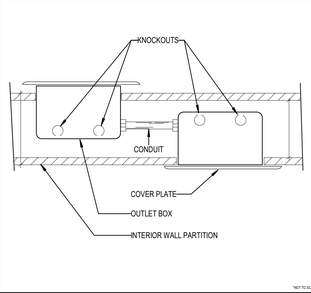


12 EMERGENCY BATTERY WIRING E1609

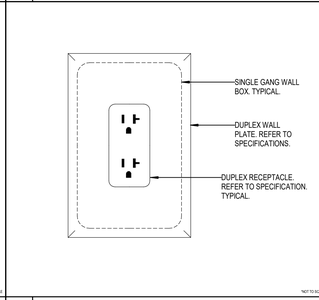


NOTE:
WRAP AROUND THE WIRE TERMINALS WITH ELECTRICAL TAPE.

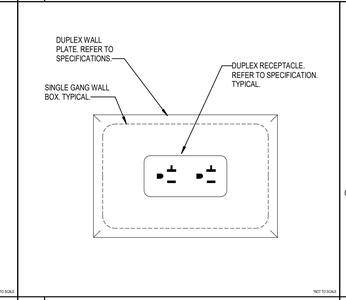
11 20A, 125V RECEPTACLE WIRING E1609



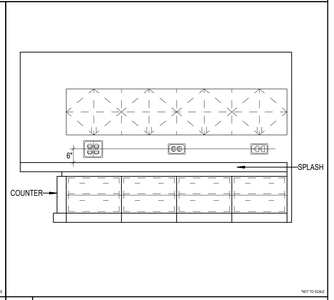
10 BACK - TO - BACK OUTLETS E1609



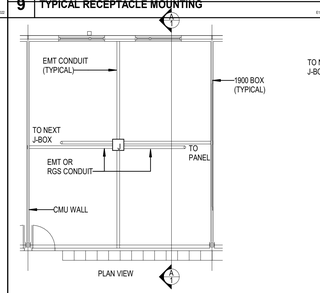
9 TYPICAL RECEPTACLE MOUNTING E1619



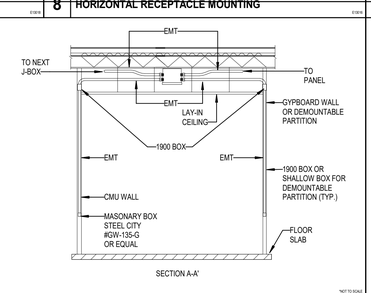
8 HORIZONTAL RECEPTACLE MOUNTING E1619



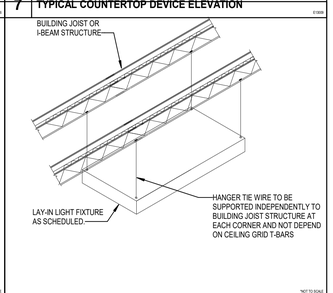
7 TYPICAL COUNTERTOP DEVICE ELEVATION E1609



15 TYPICAL RACEWAY CONFIGURATION E1601



14 LIGHTING FIXTURE SUPPORT E1604



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ALIEF MIDDLE - RESTROOM RENOVATIONS
ALIEF INDEPENDENT SCHOOL DISTRICT
4415 COOK ROAD HOUSTON, TX 77072

ISSUE FOR BID & PERMIT
10-31-25
REVISIONS
2 02-11-26 ISSUE FOR BID & PERMIT
3 04-06-26 OWNER VE

39-25156-00

ELECTRICAL SCHEDULES & DETAILS

E5.01

Autodesk Docs://39-25156-00 Alief ISD restrm reno/_250076_ALIEF MS RESTROOM RENO_MEP24.rvt
2/11/2026 11:12:09 AM

Panelboard HS

65000 A AIC Rating
New
X Existing

480/277 Wye Volt, 3 Phase, 4 Wire — 2 Section — Type 1 -Nema Rating | Mains Type: MLO | 0 A -- -- / 400 A BUS (Copper) / -- | LUGS: SINGLE / -- | Mounting Stye: SURFACE

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
1	2770 VA	--	EXIST.LOAD	12	20 A	1	2	20 A	12	EXIST.LOAD	--	2770 VA	1
1	2770 VA	--	EXIST.LOAD	12	20 A	3	4	20 A	12	EXIST.LOAD	--	2770 VA	1
1	2770 VA	--	EXIST.LOAD	12	20 A	5	6	20 A	12	EXIST.LOAD	--	2770 VA	1
1	2770 VA	--	EXIST.LOAD	12	20 A	7	8	20 A	12	EXIST.LOAD	--	2770 VA	1
1	2770 VA	--	EXIST.LOAD	12	20 A	9	10	20 A	12	EXIST.LOAD	--	2770 VA	1
1	2770 VA	--	EXIST.LOAD	12	20 A	11	12	20 A	12	EXIST.LOAD	--	2770 VA	1
1	2770 VA	--	EXIST.LOAD	12	20 A	13	14						
1	2770 VA	--	EXIST.LOAD	12	20 A	15	16	20 A	12	EXIST.LOAD AHU-26	--	9975 VA	1
1	2770 VA	--	EXIST.LOAD	12	20 A	17	18						
1	2770 VA	--	EXIST.LOAD	12	20 A	19	20						
1	2770 VA	--	EXIST.LOAD	12	20 A	21	22	60 A	6	EXIST.LOAD AHU-7	--	29928 VA	1
1	2770 VA	--	EXIST.LOAD	12	20 A	23	24						
1	2770 VA	--	EXIST.LOAD	12	20 A	25	26						
1	2770 VA	--	EXIST.LOAD	12	20 A	27	28	20 A	12	EXIST.LOAD AHU-6	--	9975 VA	1
1	2770 VA	--	EXIST.LOAD	12	20 A	29	30						
1	2770 VA	--	EXIST.LOAD	12	20 A	31	32						
1	2770 VA	--	EXIST.LOAD	12	20 A	33	34	20 A	12	EXIST.LOAD AHU-20	--	9975 VA	1
1	2770 VA	--	EXIST.LOAD	12	20 A	35	36						
1	2770 VA	--	EXIST.LOAD	12	20 A	37	38						
1	2770 VA	--	EXIST.LOAD	12	20 A	39	40	20 A	12	EXIST.LOAD AHU-21	--	9975 VA	1
1	2770 VA	--	EXIST.LOAD	12	20 A	41	42						
						43	44						
1	9975 VA	--	EXIST.LOAD	12	20 A	45	46	20 A	12	EXIST.LOAD	--	9975 VA	1
						47	48						
						49	50						
1	9975 VA	--	EXIST.LOAD	12	20 A	51	52	15 A	12	EWH-1	WH	4000 VA	3
						53	54						
						55	56						
1	51295 VA	Spare; R; WH;...	(E)LS XFMR	1	125 A	57	58	175 A	2/0	(E)CS XFMR	Spare	43920 VA	1
						59	60						
1	2770 VA	--	EXIST LOAD	12	20 A	61	62	20 A	12	EXIST LOAD	--	2770 VA	1
1	2770 VA	--	EXIST LOAD	12	20 A	63	64	20 A	12	EXIST LOAD	--	2770 VA	1
1	2770 VA	--	EXSIT LOAD	12	20 A	65	66	20 A	12	EXIST LOAD	--	2770 VA	1
2	0 VA	--	Spare	12	20 A	67	68	20 A	12	EXIST LOAD	--	2770 VA	1
2	0 VA	--	Spare	12	20 A	69	70	20 A	12	EXIST LOAD	--	2770 VA	1
2	0 VA	--	Spare	12	20 A	71	72	20 A	12	EXIST LOAD	--	2770 VA	1
1	4155 VA	--	EXIST LOAD	10	30 A	73	74	20 A	12	EXIST LOAD	--	2770 VA	1
	0 VA	--	Space	12	--	75	76	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	77	78	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	79	80	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	81	82	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	83	84	--	12	Space	--	0 VA	

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.47	(R)Receptacle	40960 VA	62.21%	25480 VA	210.20A	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.	4255 VA	100.00%	4255 VA
220.60	(F)Fans	6480 VA	100.00%	6480 VA	220.50	(MT)Lrg. Motor			
	(M)Misc.	2160 VA	100.00%	2160 VA		(SP)Sub Pnl.			
					630.11B	(W) Welders			

Total Connected Load: 305613 VA VA = 368 A
Total Load (Diversified): 290133 VA VA = 349 A
Location of Panel:

Panelboard LS

10000 A AIC Rating
New
X Existing

120/208 Wye Volt, 3 Phase, 4 Wire — 2 Section — Type 1 -Nema Rating | Mains Type: MCB | 250 A MCB -- / 250 A BUS (Copper) / -- | LUGS: -- / -- | Mounting Stye: SURFACE

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
1	720 VA	--	EXSIT LOAD	12	20 A	1	2	20 A	12	EXSIT LOAD	--	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	3	4	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	5	6	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	7	8	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	9	10	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	11	12	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	13	14	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	15	16	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	17	18	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	19	20	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	21	22	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	23	24	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	25	26	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	27	28	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	29	30	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	31	32	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	33	34	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	35	36	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	37	38	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	39	40	20 A	12	Spare	--	0 VA	2
1	720 VA	R	EXIST.LOAD	12	20 A	41	42	20 A	12	Spare	--	0 VA	2
1	720 VA	R	EXIST.LOAD	12	20 A	43	44	20 A	12	EXIST.LOAD	R	1000 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	45	46	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	47	48	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	49	50	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	51	52	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	53	54	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	55	56	20 A	12	EXIST.LOAD	R	720 VA	1
1	720 VA	R	EXIST.LOAD	12	20 A	57	58	20 A	12	EXIST.LOAD	R	720 VA	1
1	1080 VA	M	EXIST.LOAD	12	20 A	59	60	20 A	12	EXIST.LOAD	R	720 VA	1
1	1080 VA	M	EXIST.LOAD	12	20 A	61	62	20 A	12	EXIST.LOAD	R	720 VA	1
1	1080 VA	F	EXIST.LOAD	12	20 A	63	64	20 A	10	CP-2	WH	85 VA	4
1	1080 VA	F	EXIST.LOAD	12	20 A	65	66	20 A	8	CP-3	WH	85 VA	4
1	1080 VA	F	EXIST.LOAD	12	20 A	67	68	20 A	12	CP-1	WH	85 VA	4
1	1080 VA	F	EXIST.LOAD	12	20 A	69	70	20 A	12	EDF	R	360 VA	4
1	1080 VA	F	EXIST.LOAD	12	20 A	71	72	20 A	12	Spare	--	0 VA	2
1	1080 VA	F	EXIST.LOAD	12	20 A	73	74	20 A	12	Spare	--	0 VA	2
2	0 VA	--	Spare	12	20 A	75	76	20 A	12	Spare	--	0 VA	2
2	0 VA	--	Spare	12	20 A	77	78	20 A	12	Spare	--	0 VA	2
2	0 VA	--	Spare	12	20 A	79	80	20 A	12	Spare	--	0 VA	2
2	0 VA	--	Spare	12	20 A	81	82	20 A	12	Spare	--	0 VA	2
2	0 VA	--	Spare	12	20 A	83	84	20 A	12	Spare	--	0 VA	2

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.47	(R)Receptacle	40960 VA	62.21%	25480 VA	210.20A	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.	255 VA	100.00%	255 VA
220.60	(F)Fans	6480 VA	100.00%	6480 VA	220.50	(MT)Lrg. Motor			
	(M)Misc.	2160 VA	100.00%	2160 VA		(SP)Sub Pnl.			
					630.11B	(W) Welders			

Total Connected Load: 51295 VA VA = 142 A
Total Load (Diversified): 35815 VA VA = 99 A
Location of Panel:

Panelboard HA

65000 A AIC Rating
New
X Existing

480/277 Wye Volt, 3 Phase, 4 Wire — 1 Section — Type 1 -Nema Rating | Mains Type: MLO | 0 A -- -- / 225 A BUS (Copper) / -- | LUGS: SINGLE / -- | Mounting Stye: SURFACE

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
	0 VA	--	Space	12	--	1	2	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	3	4	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	5	6	--	12	Space	--	0 VA	
1	2770 VA	--	EXIST LOAD	12	20 A	7	8	20 A	12	EXIST LOAD	--	2770 VA	1
1	2770 VA	--	EXIST LOAD	12	20 A	9	10	20 A	12	EXIST LOAD	--	2770 VA	1
1	2770 VA	--	EXIST LOAD	12	20 A	11	12	20 A	12	EXIST LOAD	--	2770 VA	1
1	2770 VA	--	EXIST LOAD	12	20 A	13	14	20 A	12	EXIST LOAD	--	2770 VA	1
1	2770 VA	--	EXIST LOAD	12	20 A	15	16	20 A	12	EXIST LOAD	--	2770 VA	1
1	2770 VA	--	EXIST LOAD	12	20 A	17	18	20 A	12	EXIST LOAD	--	2770 VA	1
1	2770 VA	--	EXIST LOAD	12	20 A	19	20	20 A	12	EXIST LOAD	--	2770 VA	1
1	2770 VA	--	EXIST LOAD	12	20 A	21	22	20 A	12	EXIST LOAD	--	2770 VA	1
1	2770 VA	--	EXIST LOAD	12	20 A	23	24	20 A	12	EXIST LOAD	--	2770 VA	1
1	2770 VA	--	EXIST LOAD	12	20 A	25	26	20 A	12	EXIST LOAD	--	2770 VA	1
1	2770 VA	--	EXIST LOAD	12	20 A	27	28	20 A	12	EXIST LOAD	--	2770 VA	1
						29	30	--	12	Space	--	0 VA	
3	4000 VA	WH	EWH-2	12	15 A	31	32	--	12	Space	--	0 VA	
						33	34	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	35	36	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	37	38	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	39	40	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	41	42	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	43	44	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	45	46	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	47	48	--	12	Space	--	0 VA	

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.47	(R)Receptacle				210.20A	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.	4000 VA	100.00%	4000 VA
220.60	(F)Fans				220.50	(MT)Lrg. Motor			
	(M)Misc.					(SP)Sub Pnl.			
					630.11B	(W) Welders			

Total Connected Load: 64940 VA VA = 78 A
Total Load (Diversified): 64940 VA VA = 78 A
Location of Panel:

Panelboard CJ

65000 A AIC Rating
New
X Existing

480/277 Wye Volt, 3 Phase, 4 Wire — 1 Section — Type 1 -Nema Rating | Mains Type: MLO | 0 A -- -- / 125 A BUS (Copper) / -- | LUGS: SINGLE / -- | Mounting Stye: SURFACE

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
1	720 VA	--	EXIST.LOAD	12	20 A	1	2	20 A	12	EXIST.LOAD	--	720 VA	1
1	720 VA	--	EXIST.LOAD	12	20 A	3	4	20 A	12	Spare	--	0 VA	2
1	720 VA	--	EXIST.LOAD	12	20 A	5	6	20 A	12	Spare	--	0 VA	2
2	0 VA	--	Spare	12	20 A	7	8	20 A	12	Spare	--	0 VA	2
2	0 VA	--	Spare	12	20 A	9	10	20 A	12	Spare	--	0 VA	2
2	0 VA	--	Spare	12	20 A	11	12	20 A	12	Spare	--	0 VA	2
2	0 VA	--	Spare	12	20 A	13	14	20 A	12	Spare	--	0 VA	2
2	0 VA	--	Spare	12	20 A	15	16	20 A	12	Spare	--	0 VA	2
2	0 VA	--	Spare	12	20 A	17	18	20 A	12	Spare	--	0 VA	2
2	0 VA	--	Spare	12	20 A	19	20	20 A	12	Spare	--	0 VA	2
2	0 VA	--	Spare	12	20 A	21	22	20 A	12	Spare	--	0 VA	2
2	0 VA	--	Spare	12	20 A	23	24	20 A	12	Spare	--	0 VA	2
						25	26	20 A	12	IWH-1	WH	4100 VA	3
3	4000 VA	WH	EWH-3	12	15 A	27	28	--	12	Space	--	0 VA	
						29	30	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	31	32	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	33	34	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	35	36	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	37	38	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	39	40	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	41	42	--	12	Space	--	0 VA	

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.47	(R)Receptacle				210.20A	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.	8100 VA	100.00%	8100 VA
220.60	(F)Fans				220.50	(MT)Lrg. Motor			
	(M)Misc.					(SP)Sub Pnl.			
					630.11B	(W) Welders			

Total Connected Load: 10980 VA VA = 13 A
Total Load (Diversified): 10980 VA VA = 13 A
Location of Panel:

Panelboard HB

65000 A AIC Rating
New
X Existing

480/277 Wye Volt, 3 Phase, 4 Wire — 1 Section — Type 1 -Nema Rating | Mains Type: MLO | 0 A -- -- / 225 A BUS (Copper) / -- | LUGS: SINGLE / -- | Mounting Stye: SURFACE

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
1	2770 VA	--	EXIST.LOAD	12	20 A	1	2	20 A	12	EXIST.LOAD	--	2770 VA	1
1	2770 VA	--	EXIST.LOAD	12	20 A	3	4	20 A	12	EXIST.LOAD	--	2770 VA	1
1	2770 VA	--	EXIST.LOAD	12	20 A	5	6	20 A	12	EXIST.LOAD	--	2770 VA	1
1	2770 VA	--	EXIST.LOAD	12	20 A	7	8	20 A	12	EXIST.LOAD	--	2770 VA	1
1	2770 VA	--	EXIST.LOAD	12	20 A	9	10	20 A	12	EXIST.LOAD	--	2770 VA	1
1	2770 VA	--	EXIST.LOAD	12	20 A	11	12	20 A	12	EXIST.LOAD	--	2770 VA	1
1	2770 VA	--	EXIST.LOAD	12	20 A	13	14	20 A	12	EXIST.LOAD	--	2770 VA	1
1	2770 VA	--	EXIST.LOAD	12	20 A	15	16	20 A	12	EXIST.LOAD	--	2770 VA	1
1	2770 VA	--	EXIST.LOAD	12	20 A	17	18	20 A	12	EXIST.LOAD	--	2770 VA	1
1	2770 VA	--	EXIST.LOAD	12	20 A	19	20	20 A	12	EXIST.LOAD	--	2770 VA	1
1	2770 VA	--	EXIST.LOAD	12	20 A	21	22	20 A	12	EXIST.LOAD	--	2770 VA	1
						23	24						
3	4000 VA	WH	EWH-4	12	15 A	25	26	15 A	12	EWH-5	WH	4000 VA	3
						27	28						
	0 VA	--	Space	12	--	29	30	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	31	32	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	33	34	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	35	36	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	37	38	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	39	40	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	41	42	--	12	Space	--	0 VA	

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.47	(R)Receptacle				210.20A	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.	8000 VA	100.00%	8000 VA
220.60	(F)Fans				220.50	(MT)Lrg. Motor			
	(M)Misc.					(SP)Sub Pnl.			
					630.11B	(W) Welders			

Total Connected Load: 68940 VA VA = 83 A
Total Load (Diversified): 68940 VA VA = 83 A
Location of Panel:

Panelboard LF

10000 A AIC Rating
New
X Existing

120/208 Wye Volt, 3 Phase, 4 Wire — 1 Section — Type 1 -Nema Rating | Mains Type: MCB | 100 A MCB -- / 100 A BUS (Copper) / -- | LUGS: -- / -- | Mounting Stye: SURFACE

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
1	0 VA	--	EXIST.LOAD	12	20 A	1	2	20 A	12	EXIST.LOAD	--	0 VA	1
4	85 VA	WH	CP-5	12	20 A	3	4	20 A	12	EXIST.LOAD	--	0 VA	1
1	0 VA	--	EXIST.LOAD	12	20 A	5	6	20 A	12	EXIST.LOAD	--	0 VA	1
1	0 VA	--	EXIST.LOAD	12	20 A	7	8	20 A	12	EXIST.LOAD	--	0 VA	1
1	0 VA	--	EXIST.LOAD	12	20 A	9	10	20 A	12	EXIST.LOAD	--	0 VA	1
1	0 VA	--	EXIST.LOAD	12	20 A	11	12	20 A	12	EXIST.LOAD	--	0 VA	1
4	85 VA	WH	CP-4	12	20 A	13	14	20 A	12	EXIST.LOAD	--	0 VA	1
1	0 VA	--	EXIST.LOAD	12	20 A	15	16	20 A	12	EXIST.LOAD	--	0 VA	1
1	0 VA	--	EXIST.LOAD	12	20 A	17	18	20 A	12	EXIST.LOAD	--	0 VA	1
1	0 VA	--	EXIST.LOAD	12	20 A	19	20	20 A	12	EXIST.LOAD	--	0 VA	1
1	0 VA	--	EXIST.LOAD	12	20 A	21	22	20 A	12	EXIST.LOAD	--	0 VA	1
1	0 VA	--	EXIST.LOAD	12	20 A	23	24	20 A	12	SPARE	--	0 VA	2
1	0 VA	--	EXIST.LOAD	12	20 A	25	26	20 A	12	EXIST.LOAD	--	0 VA	1
1	0 VA	--	EXIST.LOAD	12	20 A	27	28	20 A	12	EXIST.LOAD	--	0 VA	1
1	0 VA	--	EXIST.LOAD	12	20 A	29	30	20 A	12	EXIST.LOAD	--	0 VA	1

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.47	(R)Receptacle				210.20A	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.	170 VA	100.00%	170 VA
220.60	(F)Fans				220.50	(MT)Lrg. Motor			
	(M)Misc.					(SP)Sub Pnl.			
					630.11B	(W) Welders			

Total Connected Load: 170 VA VA = 0 A
Total Load (Diversified): 170 VA VA = 0 A
Location of Panel:

PANEL SCHEUDULE KEYED NOTES:

A. ALL CIRCUITS ON EXISTING PANELS ARE EXISTING CIRCUIT/BREAKERS TO REMAIN UNLESS NOTED OTHERWISE BY KEYED NOTE.

B. ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE SCHEDULED..

C. CONTRACTOR SHALL REFER TO PROJECT SPECIFICATIONS FOR SPARE CONDUITS TO BE PROVIDED PER PANEL
.

D. ALL PANEL SCHEDULES SHALL BE UPDATED WITH NEW DIRECTORIES. ANY EXISTING CIRCUITS TO REMAIN SHALL BE CIRCUIT TRACED AND LABELING UPDATED ACCORDINGLY WITH ROOM NAMES, NUMBERS, DEVICE/EQUIPMENT TYPE. ROOM NAMING AND NUMBERING SHALL BE BASED ON THE FINAL ROOMNAMING AND NUMBERING IDENTIFIED BY THE ARCHITECT AND OWNER. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION AND ADDITIONAL DIRECTORY REQUIREMENTS.

PANEL SCHEUDULE KEYED NOTES:

1. EXISTING BRANCH CIRCUIT TO REMAIN. CONTRACTOR SHALL CIRCUIT TRACE AND FIELD VERIFY THE EXISTING LOAD CIRCUIT. UPDATE THE PANEL DIRECTORY WITH THE DEVICE/EQUIPMENT TYPE, ROOM NUMBER, ROOM NAME, ETC. REFERENCE SPECIFICATIONS AND GENERAL NOTES FOR ADDITIONAL INFORMATION. ANY EXISTING CIRCUITS DETERMINED TO BE SPARES, SHALL BE FLIPPED TO THE OFF POSITION AND PANEL DIRECTORY UPDATED ACCORDINGLY. CONTRACTOR SHALL FIELD VERIFY.
2. EXISTING BREAKER IN THE PANEL SHALL REMAIN AS SPARE, FLIPPED TO THE OFF POSITION AND LABELED ON THE NEW PANEL DIRECTORY AS A SPARE BREAKER. CONTRACTOR SHAL FIELD VERIFY.
3. REUSE EXISTING PANEL SPACE FOR NEW CIRCUITING AND NEW BREAKER. CONTRACTOR SHALL FIELD VERIFY EXISTING CIRCUITING/EQUIPMENT THAT IS EXISTING TO REMAIN PRIOR TO UTILIZING PANEL SPACE. EQUIPMENT/CIRCUITS DETERMINED TO BE EXISTING TO REMAIN DURING FIELD VERIFICATION SHALL REMAIN IN PLACE AS REQUIRED.
4. REUSE EXISTING BREAKER FOR NEW ELECTRICL CIRCUIT. CONTRACTOR SHALL FIELD VERIFY.

Load Analysis - Alief MS

480 / 277 , 3 -PHASE, 4 -WIRE — Date: 5/6/2025

DESCRIPTION					NEC	KVA
EXISTING LOAD:						
PEAK KVA FROM CPE =	942,000 VA X	125%			220.87	1177.5
REMOVED LOAD:						
LIGHTING:						
INTERIOR =	7,870 VA				220.12	-7.9
ADDED LOAD:						
LIGHTING:						
INTERIOR =	3,935 VA X	125%	= 0.02	W/SF	220.12	4.9
PLUMBING:						
EWH'S =	24,100 VA X	100%				24.1
CIRCULATION PUMPS =	340 VA					0.3
					TOTAL =	1199.0
SQ. FOOTAGE = 223,194					TOTAL AMPS:	1442.2
					SERVICE SIZE:	2000.0
					SPARE AMPACITY:	557.8

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3 04-06-26 OWNER VE

39-25156-00

ELECTRICAL PANEL SCHEDULES

E5.02

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(NOT ALL ITEMS INDICATED APPLY TO THIS PROJECT)

ABBREVIATIONS

A

A	AIR (COMPRESSED)
AC	AIR COMPRESSOR
AD	AIR DRYER
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AUX	AUXILIARY
AV	ACID VENT
AVV	AIR ADMITTANCE VALVE
AW	ACID WASTE

B

B	BOILER
BF	BOTTLE FILLER
BFF	BELOW FINISH FLOOR
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BT	BATH TUB
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACK WATER VALVE

C

C	CELSIUS
CAB	CABINET
CB	CATCH BASIN
CD	CONDENSATE DRAIN LINE
CI	CAST IRON
CIRC	CIRCULATING
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CMU	CONCRETE MASONRY UNIT
CL	CENTERLINE
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE, CONCENTRIC
CONN	CONNECTION
CP	CIRCULATING PUMP, CHROME PLATE
CPI	CAST IRON PIPE INSTITUTE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CTE	CONNECT TO EXISTING
CW	COLD WATER

D

DBP	DOMESTIC BOOSTER PUMP
DC	DOWNSPOUT COVER
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN, DOWNSPOUT NOZZLE
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING

E

ECC	ECCENTRIC
EDF	ELECTRIC DRINKING FOUNTAIN
EL OR ELVA	ELEVATION
ES	EMERGENCY SHOWER
ESP	ELEVATOR SUMP PUMP
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EW	EYE WASH
EWH	ELECTRIC WATER HEATER

F

F	FARENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FCV	FLOOR CONTROL VALVE
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FEC	FIRE EXSTINGUISHER CABINET
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FIXT	FIXTURE
FL	FLOW LINES
FLEX	FLEXIBLE
FLR	FLOOR
FP	FIRE PUMP
FS	FLOW SWITCH, FIRE SPRINKLER
	FLOOR SINK
FT	FOOT, FEET
FW	FORCE WASTE, FILTER WATER

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GD	GARBAGE DISPOSAL
GI	GREASE INTERCEPTOR
GL	GLOBE VALVE
GPD	GALLONS PER DAY
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GT	GREASE TRAP
GV	GATE VALVE, GREASE VENT
GW	GREASE WASTE
GWH	GAS WATER HEATER

H

HB	HOSE BIBB
HC	HANDICAPPED
HD	HEAD, HUB DRAIN
HKP	HOUSEKEEPING PAD
HP	HORSEPOWER
HR	HOSE REEL
HSC	HORIZONTAL SPLIT CASE
HT	HEIGHT
HTR	HEATER
HW	HOT WATER
HWR	HOT WATER RETURN
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INSUL	INSULATION
IW	INDIRECT WASTE
IWH	INSTANTANEUOS WATER HEATER

J

JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPTMENT CONTRACTOR
KVA	KILOVOLT- AMPS
KW	KILOWATT

L

L	LENGTH, LAVATORY
LAV	LAVATORY
LF	LINEAR FEET
LP	LOW PRESSURE
LPG	LIQUEFIED PETROLEUM GAS
LT	LINT, LINT TRAP
LVL	LEVEL

M

MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MS	MOP SINK
MSB	MOP SERVICE BASIN
MTD	MOUNTED
MUW	MAKE-UP WATER

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE

O

O	MEDICAL OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OS&Y	OPEN STEM AND YOLK

P

PC	PLUMBING CONTRACTOR
PH	PHASE
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PNL	PANEL
POU	POINT-OF-USE
PP	POLYPROPYLENE
PPM	PART PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
PVDF	POLYVINYL IDENE FLUORIDE

Q

QTY	QUANTITY

R

RCP	REFLECTED CEILING PLAN, REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE	REFERENCE,REFER
RECIRC	RECIRCULATE
REFR	REFRIGERATOR
RH	ROOF HYDRANT
RM	ROOM
RO	REVERSE OSMOSIS
RPBF	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

SA	SHOOK ABSORBER
SC	SCHEDULE
SD	STORM DRAIN, SANITARY DRAIN
SEC	SECONDARY
SECT	SECTION
SF	SQUARE FEET
SH	SHOWER
SHI	SOLID HAIR INTERCEPTOR
SI	SOLIDS INTERCEPTOR
SIM	SIMILAR
SK	SINK
SOS	SAND OIL SEPERATOR
SOV	SHUT-OFF VALVE
SP	SUMP PUMP, STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	SERVICE SINK, SOIL STACK, STAINLESS STEEL
SSD	SUBSURFACE DRAIN
STD	STANDARD
STL	STEEL
STR	STRAINER
SV	SANITARY VENT
SW	SOFT WATER

T

TCO	TRAFFIC CLEANOUT
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TDL	TOTAL DEVELOPED LENGTH
TLT	TOILET
TMV	THERMOSTATIC MIXING VALVE
TOB	TOP OF BEAM
TOF	TOP OF FOOTER
TP	TRAP PRIMER
TPD	TRAP PRIMER DEVICE
TS	TAMPER SWITCH
TYP	TYPICAL

U

U	URINAL
UF	UNDERFLOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
US	UNDERSLAB

V

V	VOLT, VENT
VAC	VACUUM(MEDICAL)
VB	VALVE BOX, VACUUM BREAKER
VFD	VARIABLE FREQUENCY DRIVE
VP	VACUUM PUMP
VS	VENT STACK
VTR	VENT THRU ROOF

W

W	WATT, WASTE, WIDTH, WASHER
W/	WITH
W/O	WITHOUT
WADG	WASTE ANESTHETIC GAS DISPOSAL
WB	WALL BOX
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WM	WATER METER
WMB	WASHER MACHINE BOX
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WS	WATER SOFTENER, WASTE STACK
WSFU	WATER SUPPLY FIXTURE UNIT
WT	WATERTIGHT, WEIGHT

Y

YCO	YARD CLEANOUT
YH	YARD HYDRANT

Z

Z	ZONE

SYMBOLS

PLUMBING SYSTEMS

- SANITARY DRAIN BELOW FLOOR
- S(E) — EXISTING SOIL OR WASTE PIPING B.G. - S(E)
- SANITARY DRAIN ABOVE FLOOR
- S(E) — EXISTING SOIL OR WASTE PIPING A.G. - S(E)
- X X X X X X X X — PIPE DEMO
- SANITARY VENT
- EXISTING VENT PIPING
- GW — GREASE WASTE(ABOVE CEILING)
- GW — GREASE WASTE(BELOW FLOOR)
- SD — STORM DRAIN(ABOVE CEILING)
- SD — STORM DRAIN(BELOW FLOOR)
- OD — OVERFLOW DRAIN(ABOVE CEILING)
- OD — OVERFLOW DRAIN(BELOW FLOOR)
- AW — ACID WASTE(ABOVE CEILING)
- AW(E) — EXISTING ACID WASTE PIPING A.G. - AW(E)
- AW — ACID WASTE(BELOW FLOOR)
- AW(E) — EXISTING ACID WASTE PIPING B.G. - AW(E)
- AV — ACID VENT(ABOVE CEILING OR BELOW FLOOR)
- AV(E) — EXISTING ACID VENT PIPING - AV(E)
- NP-CW — NON-POTABLE - COLD WATER
- COLD WATER - CW
- CW(E) — EXISTING DOMESTIC COLD WATER - CW(E)
- HOT WATER - HW
- HW(E) — EXISTING DOMESTIC HOT WATER - HW(E)
- HOT WATER RECIRCULATION
- HWR(E) — EXISTING DOMESTIC HOT WATER RETURN - HWR(E)
- G (4oz) — NATURAL GAS (LOW PRESSURE)
- G (2 PSI) — NATURAL GAS (MEDIUM PRESSURE)
- G (5 PSI) — NATURAL GAS (HIGH PRESSURE)
- T — TEMPERED WATER
- A — COMPRESSED AIR
- MA — MEDICAL AIR
- O — MEDICAL OXYGEN
- MV — MEDICAL VACUUM
- F — FIRE STANDPIPE, FIRE LINE
- FS — WET AUTOMATIC FIRE SPRINKLER
- FW — FORCE WASTE
- TP — TRAP PRIMER
- D — DRAIN LINE
- SW — SOFT WATER
- LT — LINT WASTE
- LP — LIQUIFIED PETROLEUM GAS
- N — NITROGEN
- N2O — NITROUS OXIDE
- IA — INSTRUMENT AIR
- WAGD — WASTE ANESTHETIC GAS DISPOSAL

PIPING FITTINGS

- CAP ON END OF PIPE
- ELBOW UP
- ELBOW DOWN
- VALVE IN DROP
- VALVE IN RISE
- DIRECTION OF FLOW
- DIRECTION OF SLOPE DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- TEE OUTLET UP
- TEE OUTLET DOWN
- UNION
- FLANGE
- STRAINER WITH BLOWDOWN VALVE
- GATE VALVE, HVAC BALANCING/STOP VALVE
- GLOBE VALVE
- BALL VALVE
- BALANCING VALVE WITH DIFFERENTIAL PRESSURE TAPS
- OS&Y VALVE
- CHECK VALVE
- BUTTERFLY VALVE
- TWO-WAY MODULATING CONTROL VALVE
- THREE-WAY MODULATING CONTROL VALVE
- SOLENOID VALVE
- PRESSURE REDUCING VALVE
- GAS REGULATOR
- GAS COCK
- SPRINKLER FLOOR CONTROL STATION
- MANUAL AIR VENT
- AUTOMATIC AIR VENT
- T&P RELIEF VALVE
- LINE CLEANOUT/ WALL CLEANOUT
- FLOOR CLEANOUT
- GRADE CLEANOUT
- PRESSURE GAUGE WITH GAUGE COCK
- THERMOMETER
- FLOW VENTURI
- VACUUM BREAKER
- VACUUM RELIEF VALVE
- BACKFLOW PREVENTOR
- CIRCULATING PUMP
- WATER SUB-METER
- LOCAL ALARM
- MASTER ALARM
- AREA ALARM

MISCELLANEOUS

- DRAIN(TYPE AND SIZE AS NOTED ON PLANS)
- ROOF DRAIN OR OVERFLOW DRAIN
- ROOF DRAIN OR OVERFLOW DRAIN(FROM ABOVE)
- HOSE BIBB
- WALL HYDRANT
- PLUMBING FIXTURES
- EXISTING PLUMBING FIXTURES
- POINT OF NEW CONNECTION TO EXISTING PIPING
- P.X.X — PLUMBING DRAWING NOTE REFERENCE
- 2 / P2.1 — DETAIL NUMBER OR PLAN / SHEET WHERE DETAIL OR PLAN IS SHOWN
- FS — FLOW SWITCH
- TS — TAMPER SWITCH
- ACCESS PANEL (AP)
- FIRE DEPARTMENT SIAMESE CONNECTION(WALL MOUNTED)
- FIRE DEPARTMENT SIAMESE CONNECTION(FREE STANDING)
- 2 / P7.1 — PLUMBING RISER DIAGRAM NUMBER / SHEET WHERE PLUMBING RISER DIAGRAM IS SHOWN

PLUMBING CODES

2021 UNFORM PLUMBING CODE
2021 EXISTING BUILDING CODE

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GENERAL FIRE PROTECTION NOTES

1. MODIFICATIONS TO THE EXISTING FIRE SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY A STATE LICENSED FIRE SPRINKLER CONTRACTOR (HEREINAFTER CONTRACTOR) IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 (PREVAILING EDITION) AND ALL AUTHORITIES HAVING JURISDICTION.
2. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF EXISTING SPRINKLER HEADS, PIPING, AND APPURTENANCES AS NECESSARY.
3. PROVIDE ALL SPRINKLER HEADS, PIPE, FITTINGS, HANGERS, AND ACCESSORIES AS NECESSARY. ENSURE ANY VALVE SUPERVISORY SWITCHES AND FLOW SWITCHES ARE COORDINATED WITH THE BUILDING FIRE ALARM SYSTEM.
4. THE FINAL FIRE SPRINKLER SYSTEM SHALL PROVIDE COMPLETE AUTOMATIC PROTECTION AND COVERAGE AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION AND NFPA 13 (PREVAILING EDITION). THE SPRINKLER SYSTEM MUST ALSO BE APPROVED BY THE OWNER'S FIRE INSURANCE UNDERWRITER.
5. COORDINATE SPRINKLER HEAD LOCATIONS WITH LATEST ARCHITECTURAL REFLECTED CEILING PLANS AND FINISHES. EXTEND BRANCH LINES ACCORDINGLY TO PROVIDE SPRINKLERS BOTH ABOVE AND BELOW ANY "CLOUD" CEILINGS, IF PRESENT. ALL SPRINKLER HEADS SHALL BE INSTALLED IN CENTER OF CEILING TILES REGARDLESS OF ANY NECESSITY TO PROVIDE ADDITIONAL HEADS TO ACCOMPLISH UNIFORM APPEARANCE OF THE COMPLETED INSTALLATION BY THIS REQUIREMENT. THE CONTRACTOR SHALL MAKE ADJUSTMENTS AS NECESSARY DURING THE SHOP DRAWING PROCESS TO MEET ARCHITECTURAL REVIEW REQUIREMENTS WHILE STILL ENSURING COMPLETE AND COMPLIANT COVERAGE.
6. ENSURE TO LOCATE THE INSPECTOR'S TEST CONNECTION AT THE END OF THE MOST REMOTE BRANCH LINE FOR EACH SYSTEM.
7. SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL BY THE OWNER'S FIRE INSURANCE UNDERWRITER AND FIRE MARSHAL. THEY SHALL ALSO BE SUBMITTED FOR REVIEW BY THE ARCHITECT AND ENGINEER OF RECORD.
8. SPRINKLER SYSTEM SHALL CONTAIN NO SUCH ADDITIONAL VALVES DOWNSTREAM OF THE CONTROL STATION.
9. THE SPRINKLER SYSTEM SHALL BE DESIGNED AS REQUIRED TO ACCOMMODATE FIXTURES, PARTITIONS, SOFFITS, FURR DOWNS, CEILING HEIGHTS, OBSTRUCTIONS, ETC.
10. REFER TO THE OWNER'S CRITERIA/CONSTRUCTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
11. REFER TO THE ARCHITECTURAL CODE ANALYSIS FOR ANY SPECIAL REQUIREMENTS.
12. THE EXISTING SPRINKLER SYSTEM SHALL BE FULLY CHARGED AND OPERATIONAL WHEN THE CONTRACTOR IS OFF THE SITE.
13. PRIOR TO THE PROPOSED SHUT-DOWN/INTERRUPTION OF ANY EXISTING FIRE PROTECTION SYSTEM, THE CONTRACTOR SHALL ADVISE THE OWNER/OWNER'S APPOINTED REPRESENTATIVE NO LESS THAN 24 HOURS PRIOR. ALL SUCH SERVICE INTERRUPTIONS SHALL BE FULLY COORDINATED.
14. THE CONTRACTOR SHALL PERFORM ALL WORK IN A WORKMANLIKE MANNER. UPON COMPLETION OF WORK THE CONTRACTOR SHALL TEST, THEN CONNECT TO THE MAIN SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE SYSTEM TO FULL OPERATION.

GENERAL WORK NOTES

1. ALL WORK, METHODS, AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE PREVAILING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
2. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS, ELEVATIONS, DIRECTION OF FLOW, PIPE SIZES & CAPACITIES, AND PIPE MATERIAL & CONDITION AT PROPOSED POINTS OF CONNECTION WITH EXISTING BUILDING PLUMBING LINES AND SITE CIVIL LINES PRIOR TO INSTALLATION OF ANY NEW WORK. MODIFY/REPLACE EXISTING PIPING IF AND AS REQUIRED TO ENSURE PROPER CONNECTIONS. ONLY CONNECT NEW LINES TO SUITABLE EXISTING LINES OF EQUAL OR GREATER SIZE.
3. COORDINATE ROUTING OF BURIED PIPING WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND UTILITIES, AND ALL OTHER SUB-SURFACE BUILDING ELEMENTS. MAKE ADJUSTMENTS AS REQUIRED AND ADVISE ARCHITECT/ENGINEER OF ANY GRADING CONFLICTS PRIOR TO COMMENCING INSTALLATION.
4. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL CONDITIONS AND PROVIDE PROPER PIPING INSTALLATIONS AS REQUIRED WITHOUT DAMAGE TO STRUCTURE. WHERE STRUCTURAL MODIFICATIONS WILL BE REQUIRED, THE CONTRACTOR SHALL FIRST RECEIVE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER AND PROVIDE ALL SUCH WORK ACCORDINGLY.
5. COORDINATE IN FIELD TO ENSURE NO LESS THAN 6 INCHES OF EARTHEN COVER FROM TOPS OF DRAINAGE PIPES TO BOTTOMS OF GRADE BEAMS, FOUNDATION WALLS, OR SIMILAR ELEMENTS. WHERE SUCH COVER CANNOT BE PROVIDED DUE TO INVERT ELEVATIONS, PROVIDE SCHEDULE 40 GALVANIZED STEEL PIPE SLEEVES THROUGH THE FOUNDATION ELEMENTS. SLEEVES SHALL BE NO SMALLER THAN TWO PIPE SIZES LARGER THAN THE PIPE SERVED. SEAL WATERTIGHT. COORDINATE WITH AND ADHERE TO ALL RELATED REQUIREMENTS PER THE STRUCTURAL ENGINEER.
6. CONTRACTOR SHALL FIELD COORDINATE LOCATIONS AND ELEVATIONS OF ALL PLUMBING PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. WHERE RELOCATIONS OF NEW WORK ARE REQUIRED TO CORRECT CONFLICTS WITH OTHER TRADES IT SHALL BE DONE AT NO ADDITIONAL COST TO OWNER.
7. ALL PIPE PASSING THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SUPPORTED AT THE PENETRATION AND SHALL BE SEALED WITH APPROVED FIRE STOP MATERIALS AS SPECIFIED AND AS REQUIRED BY CODE AND THE AUTHORITIES HAVING JURISDICTION.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING ALL PLUMBING PIPING SLEEVE LOCATIONS WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF ANY PIPING OR SUPPORTS.
9. HORIZONTAL GRAVITY DRAINAGE PIPING SHALL BE PROVIDED AT NO LESS THAN THE MINIMUM SLOPE AS REQUIRED BY THE PREVAILING PLUMBING CODE.
   A. IN ACCORDANCE WITH THE UPC: GRAVITY DRAINAGE PIPING 3" AND SMALLER SHALL BE PROVIDED AT NO LESS THAN 1/4 INCH PER FOOT UNIFORM SLOPE AND GRAVITY DRAINAGE PIPING 4" AND LARGER SHALL BE PROVIDED AT NO LESS THAN 1/8 INCH PER FOOT UNIFORM SLOPE.
   B. IN ACCORDANCE WITH THE IPC: GRAVITY DRAINAGE PIPING 2-1/2" AND SMALLER SHALL BE PROVIDED AT NO LESS THAN 1/4 INCH PER FOOT UNIFORM SLOPE AND GRAVITY DRAINAGE PIPING 3" AND LARGER SHALL BE PROVIDED AT NO LESS THAN 1/8 INCH PER FOOT UNIFORM SLOPE.
   C. WHERE THE PREVAILING CODE REQUIRES A STEEPER SLOPE THAN INDICATED ABOVE (SUCH AS FOR GREASE WASTE PIPING) THEN SUCH REQUIREMENT SHALL CONTROL.
10. SLOPE ALL VENT PIPE BACK FROM THE VENT TERMINAL AT A MINIMUM 6" PER 100 FEET OF RUN.
11. THE DISCHARGE LINE FROM ANY EJECTOR OR PUMP WHICH CONNECTS TO A HORIZONTAL GRAVITY DRAINAGE LINE SHALL BE FROM THE TOP, THROUGH A WYE BRANCH FITTING.
12. PROVIDE FITTINGS FOR DRAINAGE WASTE AND VENT (DWV) AND STORM PIPING SYSTEMS OF APPROVED DRAINAGE PATTERN AND LONG OR SHORT RADIUS TYPES AS REQUIRED AND APPROVED FOR USE IN COMPLIANCE WITH PLUMBING CODE REQUIREMENTS.
13. PROVIDE CLEANOUTS AT EACH CHANGE OF DRAINLINE DIRECTION GREATER THAN 45° AND IN COMPLIANCE WITH PLUMBING CODE REQUIREMENTS.
14. PROVIDE BRACING TO PREVENT AXIAL MOVEMENT FOR ALL DRAINAGE PIPING. PROVIDE RESTRAINTS AT ALL CHANGES IN DIRECTION AND AT ALL DIAMETER CHANGES GREATER THAN TWO PIPE SIZES. SPECIFICALLY ENGINEERED BRACES, STRAPS, AND CLAMPS CONSISTENT WITH THE PIPE AND COUPLING MANUFACTURER RECOMMENDATIONS, THE APPLICABLE INSTALLATION STANDARDS, AND LOCAL CODE REQUIREMENTS SHALL BE ACCEPTABLE. HOLDRITE OR PRE-APPROVED EQUIVALENT PRODUCTS.
15. PROVIDE ISOLATING BALL VALVES FOR ALL BRANCHES OFF DOMESTIC WATER MAINS. ALL PLUMBING SYSTEM VALVES SHALL BE INSTALLED IN ACCESSIBLE CEILING SPACES. WHERE CEILING IS NOT ACCESSIBLE, OR SPACE IS CONFLICTING, VALVES SHALL BE INSTALLED IN PARTITIONS OR PIPE CHASES. PROVIDE MILCOR STYLE 'K' PAINTED STEEL HINGED ACCESS PANELS IN LOCATIONS PRE-APPROVED BY THE ARCHITECT.
16. ALL HOT WATER AND HOT WATER CIRCULATING PIPING SHALL BE PROVIDED WITH FIBERGLASS INSULATION WITH ALL SERVICE JACKET AND SELF SEALING LAP JOINT AS FOLLOWS:
   A. 1" THICK INSULATION FOR PIPE SIZES 1-1/4" AND SMALLER.
   B. 1-1/2" THICK INSULATION FOR PIPE SIZES 1-1/2" AND LARGER.
17. INSTALL EACH WATER HEATER AND ALL OTHER PLUMBING EQUIPMENT WITH ADEQUATE CLEARANCES FOR ACCESS BY SERVICE PERSONNEL AND WITH PROPER ORIENTATION FOR ELEMENT REMOVAL/REPLACEMENT.
18. CONTRACTOR SHALL STERILIZE ALL DOMESTIC WATER PIPING ACCORDING TO AMERICAN WATER WORKS ASSOCIATION (AWWA) SPECIFICATIONS.
19. ALL CAST IRON PIPE, FITTINGS AND INSTALLATION SHALL COMPLY WITH THE CAST IRON SOIL PIPE INSTITUTE (CISPI) STANDARDS.
20. FLASH FLOOR DRAINS IN FLOORS WITH TOPPING OVER FINISHED AREAS WITH 40 MIL PVC MEMBRANE, 10 INCHES CLEAR ON SIDES WITH MINIMUM 36 X 36 INCH SHEET SIZE. FASTEN WATERPROOFING MEMBRANE FLASHING TO DRAIN CLAMPING DEVICE.
21. NO PLUMBING PIPING SHALL BE ROUTED OVER MAJOR MECHANICAL EQUIPMENT, MDF/IDF/DATA CLOSETS, ELECTRICAL ROOMS, OR ANY SUCH EQUIPMENT.
22. COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND ALSO TO MINIMIZE INTERRUPTION OF SERVICES FOR RENOVATIONS.
23. THE PROPER INSTALLATION OF NEW FIXTURES AND THE PROPER CONTINUED OPERATION OF EXISTING BUILDING FIXTURES TO REMAIN (FOR RENOVATIONS) SHALL GOVERN THE EXTENT AND NATURE OF WORK.
24. FOR RENOVATIONS THE CONTRACTOR SHALL MAKE ARRANGEMENTS IN ADVANCE WITH THE OWNER PRIOR TO ANY NECESSARY SHUT DOWN OF THE DOMESTIC WATER OR ANY OTHER SERVICE. ANY SUCH SHUT DOWN SHALL BE AT A TIME AND FOR A DURATION SATISFACTORY TO THE OWNER, WHO SHALL MAKE THE FINAL DETERMINATION AS TO ITS ACCEPTABILITY.
25. RENOVATIONS SITE INSPECTIONS: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMITTING A BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND EXACT NATURE OF WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN THE CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDS FOR ANY OMISSION WHICH RESULTS FROM FAILURE TO MAKE SUCH A THOROUGH EXAMINATION. NOTE THAT FOR GRAPHICAL CLARITY, ALL EXISTING PIPING TO REMAIN OR BE ABANDONED IN PLACE MAY NOT BE SHOWN ON THE FLOOR PLANS.

DEMOLITION NOTES:

1. FIELD VERIFY AS NECESSARY THE EXACT LOCATIONS/ROUTING/SIZES OF PLUMBING FIXTURES, PIPING, AND EQUIPMENT TO BE REMOVED OR RE-USED. REFER TO ARCHITECTURAL DRAWINGS FOR CLARIFICATION AS REQUIRED.
2. ALL PLUMBING FIXTURES/EQUIPMENT NOT SPECIFICALLY IDENTIFIED FOR REMOVAL SHALL REMAIN. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES/CONFLICTS FOUND IN THE FIELD.
3. UNLESS NOTED OTHERWISE, WHERE FIXTURES ARE TO BE REMOVED: REMOVE FIXTURE, CARRIER, FAUCET/FLUSH VALVE, SUPPLIES/STOPS, TUBULAR BRASS, AND ASSOCIATED PIPING AS DESCRIBED.
4. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS, WHERE EACH NEW WALL HUNG FIXTURE WILL BE RE-INSTALLED, A NEW CORRESPONDING FIXTURE CARRIER SHALL ALSO BE PROVIDED. THIS REQUIREMENT SHALL APPLY TO ONE-FOR-ONE FIXTURE REPLACEMENTS AND ALL ADJUSTMENTS TO WALL HUNG FIXTURE LOCATIONS AND FIXTURE HEIGHTS. ALL WORK ASSOCIATED WITH PROVIDING SUCH CARRIERS SHALL BE INCLUDED IN THE PROJECT SCOPE WITH NO EXCEPTIONS.
5. ALL PLUMBING FIXTURES AND/OR EQUIPMENT REMOVED SHALL BE SUBMITTED TO THE OWNER WITH THE OPTION TO BE REUSED, WHICH SHALL BE SOLELY AT THE DISCRETION OF THE OWNER. ITEMS THE OWNER DOES NOT WISH TO REUSE BUT WISHES TO RETAIN SHALL BE DELIVERED TO STORAGE AS DIRECTED. ITEMS THE OWNER DOES NOT WISH TO REUSE OR RETAIN SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF LEGALLY.
6. REMOVE ALL PIPING FROM ABOVE FLOOR TO BELOW ROOF/FLOOR ABOVE WHICH WAS PREVIOUSLY ABANDONED OR WHICH SERVES PLUMBING FIXTURES DESIGNATED FOR REMOVAL, UNLESS NEW FIXTURES ARE TO BE INSTALLED IN THOSE LOCATIONS - REFER TO PLUMBING FLOOR PLANS. PRIOR TO ANY REMOVAL, FIELD VERIFY THAT LINES TO BE REMOVED DO NOT SERVE ANY FIXTURES TO REMAIN. CAP REMOVED BRANCH LINES AS CLOSE AS POSSIBLE TO EXISTING MAINS TO REMAIN.
7. WHERE SLAB ON GRADE FLOOR DRAINS OR SIMILAR INSTALLATIONS ARE TO BE REMOVED, THE STRAINER AND DRAIN BODY SHALL BE REMOVED. PLUG THE WASTE PIPE WATERTIGHT BELOW FINISHED FLOOR. PATCH AND REFINISH THE FLOOR TO MATCH EXISTING.
8. AT PLUMBING WASTE/VENT PIPE PENETRATIONS THROUGH SLAB ON GRADE NO LONGER REQUIRED, PLUG THE PIPES WATERTIGHT BELOW FINISHED FLOOR. PATCH AND REFINISH THE FLOOR TO MATCH EXISTING.
9. WHERE BURIED WASTE/VENT BRANCH LINES ARE PLUGGED AND ABANDONED IN PLACE, THE ABANDONED LINES SHALL REMAIN OTHERWISE SERVICEABLE AND THE REMAINING PIPING SYSTEM SHALL REMAIN INTACT AND FUNCTIONAL.
10. WHERE FIXTURES ARE REMOVED, NO NEW FIXTURES ARE TO BE INSTALLED, AND EXISTING VENTS THROUGH ROOF ARE NO LONGER REQUIRED, VENT TERMINALS ARE TO BE COMPLETELY REMOVED UNLESS NOTED OTHERWISE. THE ROOF SHALL BE REPAIRED AND SEALED WATERTIGHT TO MATCH THE EXISTING ROOF SYSTEM.
11. IN THE COURSE OF DEMOLITION, ANY PIPING TO REMAIN THAT IS EXPOSED AND FOUND TO BE UNLABELED SHALL BE IDENTIFIED AND LABELED ACCORDINGLY. PROVIDE PIPE MARKERS TO INDICATE TYPE OF SERVICE AND DIRECTION OF FLOW.
12. IN THE COURSE OF DEMOLITION, THE CONTRACTOR SHALL ASSIST THE OWNER BY BRINGING TO THE DESIGN TEAM'S ATTENTION ANY EXISTING PLUMBING RELATED ITEMS INTENDED TO REMAIN BUT WHICH ARE FOUND TO BE UNFIT FOR SERVICE OR IN NEED OF REPAIR. THIS SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, THE FOLLOWING: LEAKING OR DETERIORATED PIPING AND VALVES; IMPROPERLY SLOPED/SUPPORTED OR SAGGING PIPE; MISSING, DAMAGED, OR DETERIORATED INSULATION; CODE REQUIRED BUT MISSING BACKFLOW PREVENTION MEASURES; FIXTURES, FLUSH VALVES, FAUCETS, EQUIPMENT, AND APPURTENANCES NOT FUNCTIONING AS INTENDED.
13. IN THE COURSE OF DEMOLITION, THE CONTRACTOR SHALL ASSIST THE OWNER BY BRINGING TO THE DESIGN TEAM'S ATTENTION ANY EXISTING NON-PLENUM RATED PIPING (PVC, ETC.) INTENDED TO REMAIN WHICH IS FOUND IN A RETURN AIR PLENUM SPACE. UNLESS DEEMED UNACCEPTABLE BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) OR OWNER, ALL SUCH PIPING SHALL BE WRAPPED WITH FIRE RESISTANT INSULATION. 3M FIRE BARRIER PLENUM WRAP SA OR PRE-APPROVED EQUAL THAT HAS BEEN TESTING IN ACCORDANCE WITH ASTM E84 AND UL 910. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDED METHODS.

FIXTURES NOTES

1. DO NOT ROUGH-IN UNDERGROUND PIPING OR ANY OTHER CONNECTIONS FOR FIXTURES FROM THE PLUMBING DRAWINGS. REFER TO LATEST ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DIMENSIONED LOCATIONS. COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH THE LATEST ARCHITECTURAL DRAWINGS, SPECIFICATIONS, AND MANUFACTURER RECOMMENDATIONS PRIOR TO ANY ROUGH-INS.
2. CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS AND DIMENSIONS OF FINISHED FLOORS AND WALLS. TRUE ALL DRAINS, ROUGH-INS AND CARRIERS IN ACCORDANCE WITH THE PROPOSED ELEVATIONS AND FINISHED SURFACES.
3. THE MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG AND COUNTER MOUNTED FIXTURES SHALL BE COORDINATED WITH THE LATEST ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-IN WORK.
4. PROVIDE LABOR AND MATERIALS AS REQUIRED TO MAKE FINAL CONNECTIONS TO ALL PLUMBING FIXTURES, EQUIPMENT, AND RELATED ITEMS FURNISHED UNDER SEPARATE DIVISIONS. INSTALL ASSOCIATED TRIM AND COMPONENT ACCESSORIES FURNISHED UNDER SEPARATE DIVISIONS.
5. CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF ACTUAL EQUIPMENT TO BE SUPPLIED FOR THE FINAL COORDINATION OF ALL ROUGH-INS BEFORE BEGINNING WORK.
6. ALL FIXTURE AND EQUIPMENT STUB-OUTS SHALL BE PROVIDED WITH A STOP VALVE. UNLESS SPECIFIED OTHERWISE, ALL FIXTURE STOPS SHALL BE SOLID BRASS, LOOSE KEY OPERATED, CHROME PLATED, AND FITTED TIGHT TO CHROME PLATED BRASS WALL ESCUTCHEON PLATES COMPLETE WITH SUPPLY RISERS OF TYPE 'L' TUBING, CHROME PLATED. MCGUIRE MANUFACTURING OR PRE-APPROVED EQUAL.
7. ALL EXPOSED FIXTURE P-TRAPS WITHIN THE BUILDING AND ABOVE FLOOR SHALL BE CHROME PLATED ADJUSTABLE, HEAVY CAST BRASS WITH CLEANOUT PLUG, SLIP NUTS, AND 17 GAUGE SEAMLESS TUBULAR BRASS DRAIN TO WALL WITH WALL FLANGE. MCGUIRE MANUFACTURING OR PRE-APPROVED EQUAL.
8. EACH FIXTURE TRAP SHALL HAVE A LIQUID SEAL OF NOT LESS THAN 2 INCHES AND NOT MORE THAN 4 INCHES, EXCEPT WHERE A DEEPER SEAL IS FOUND NECESSARY BY THE AUTHORITY HAVING JURISDICTION.
9. ALL ROUGH IN OPENINGS SHALL BE FITTED WITH CHROME PLATED SOLID RING TYPE ESCUTCHEON PLATES FITTED TIGHT TO THE PIPE AND FLUSH TO THE WALL.
10. ALL EXPOSED TAILPIECES, P-TRAPS, TRAP ARMS, ASSOCIATED HARDWARE AND ESCUTCHEONS SHALL BE CHROME PLATED.
11. ALL FIXTURES INDICATED AS OR REQUIRED TO BE HANDICAPPED ACCESSIBLE ("ADA" OR "TAS") SHALL BE PROVIDED IN APPROVED TYPES, WITH REQUIRED CONTROLS AND PROVIDED WITH THE REQUIRED HEIGHTS AND CLEARANCES. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONED MOUNTING HEIGHTS AND SPECIFIED CLEARANCE REQUIREMENTS.
12. ALL EXPOSED LAVATORY AND SINK PIPING FOR ACCESSIBLE FIXTURES SHALL BE INSULATED WITH APPROVED, MANUFACTURED MOLDED VINYL COVERS BY TRUEBRO OR APPROVED EQUAL. PROVIDE OFFSET DRAIN FITTINGS WHERE REQUIRED TO ENSURE REQUIRED MINIMUM CLEARANCES.
13. ALL ACCESSIBLE SINKS SHALL BE PROVIDED WITH DRAIN OUTLETS LOCATED ACCORDINGLY TOWARD THE REAR OF BASIN.
14. ENSURE TO ORIENT ALL ACCESSIBLE WATER CLOSET FLUSH OPERATORS ON THE "WIDE" SIDE OF THE FIXTURE ENCLOSURE.
15. SEAL ALL SPACES BETWEEN PLUMBING FIXTURES AND MOUNTING SURFACES WITH WHITE SILICONE CAULK WIPED SMOOTH AND FLUSH WITH FIXTURE.
16. FLOOR DRAINS SHALL BE INSTALLED AT LOW POINTS OF SLOPED FLOORS. CONTRACTOR SHALL FIELD COORDINATE WITH STRUCTURAL TO WITH INTENDED ARCHITECTURAL FLOOR FINISHES TO ENSURE THAT DRAINS ARE LOCATED ACCORDINGLY.
17. PROVIDE A COMPATIBLE WATER FILTER AT EACH ICE MAKING MACHINE.
18. ALL SINKS AND URINALS SHALL BE PROVIDED WITH WALL CLEANOUTS.
19. SHOCK ARRESTORS SHALL CONFORM WITH THE REQUIREMENTS OF ASSE 1010 AND SHALL BE SIZED AND LOCATED PER THE PLUMBING AND DRAINAGE INSTITUTE STANDARD WH-201. PROVIDE ACCESS PANELS SIZED ACCORDINGLY TO ENSURE MAINTENANCE AND REPLACEMENT ACCESS TO ALL SHOCK ARRESTORS. FINAL LOCATIONS AND SIZES OF REQUIRED ACCESS PANELS SHALL BE REVIEWED FOR APPROVAL BY THE ARCHITECT PRIOR TO INSTALLATION.

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PLUMBING GENERAL NOTES

P0.11

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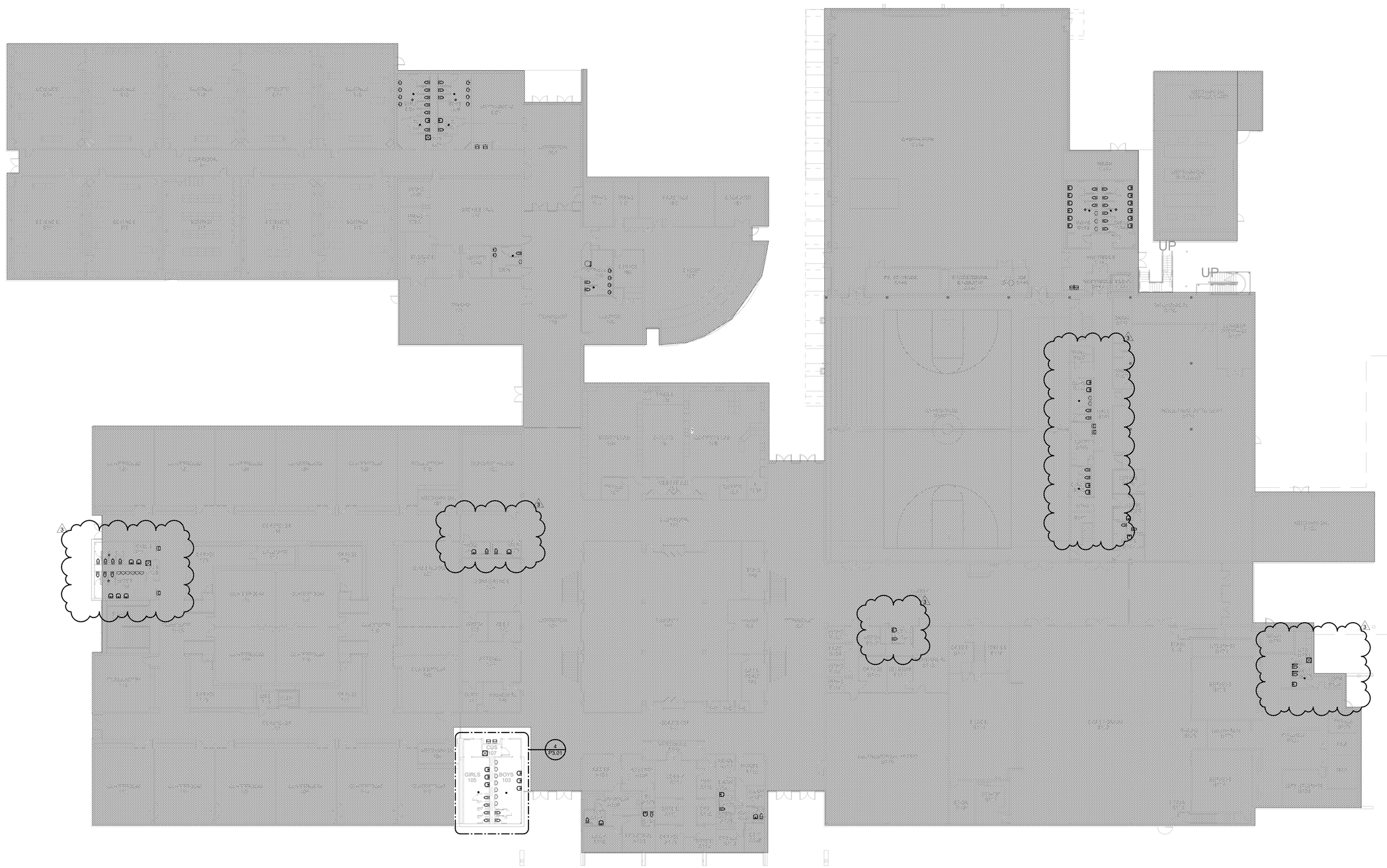

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1 **LEVEL 01 - DEMOLITION PLUMBING PLAN**
1/16" = 1'-0"

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LEVEL 01 - DEMOLITION PLUMBING PLAN

P2.11

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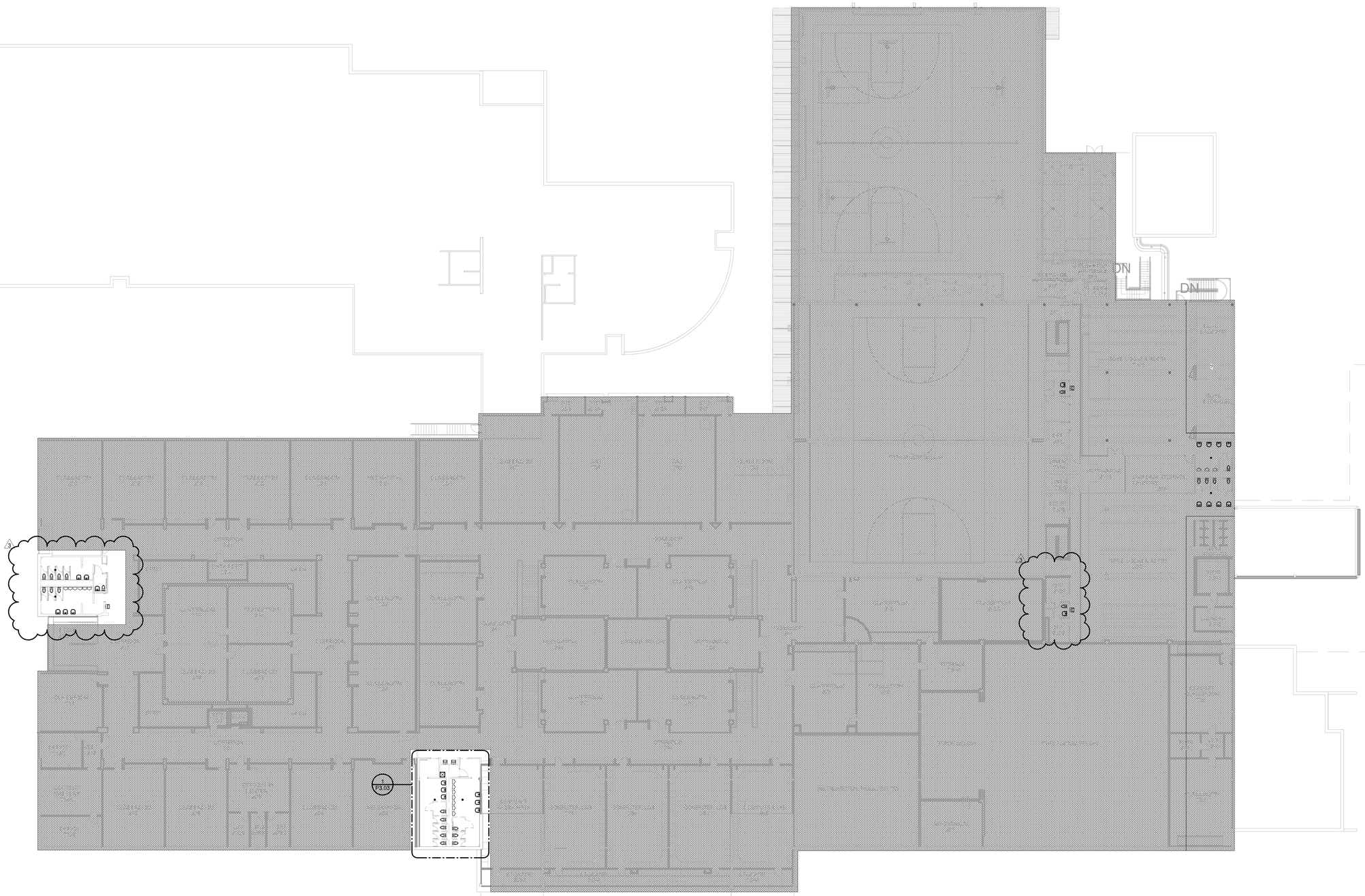

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1 **LEVEL 02 - DEMOLITION PLUMBING PLAN**
1/16" = 1'-0"

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LEVEL 02 - DEMOLITION PLUMBING PLAN

P2.12

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1 **LEVEL 01 - PLUMBING PLAN**
1/16" = 1'-0"

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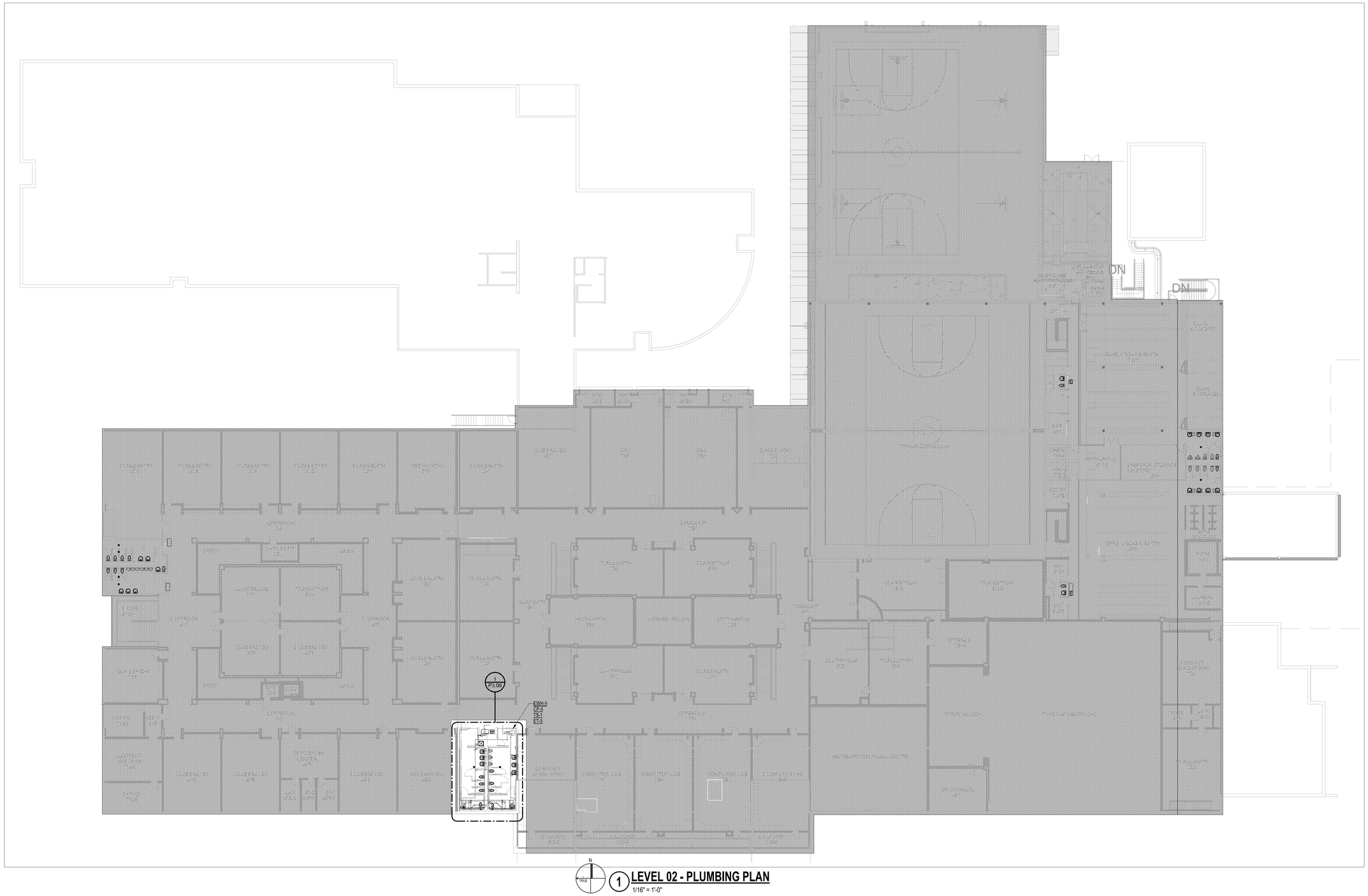
LEVEL 01 - PLUMBING PLAN

P2.21



1 **LEVEL 02 - PLUMBING PLAN**
1/16" = 1'-0"

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LEVEL 02 - PLUMBING PLAN

P2.22

PLUMBING GENERAL PLAN NOTES

A. IF EXISTING RESTROOM FLOOR DRAINS ARE LOCATED DIRECTLY BELOW TOILET PARTITIONS THEY SHALL BE RELOCATED/SHIFTED OVER AS SHOWN IN THE NEW PLANS. SAW-CUT SLAB AND PATCH TO MATCH AS NECESSARY.

PLUMBING KEYED NOTES

P10.4 REMOVE EXISTING LAVATORY. MODIFY EXISTING PLUMBING PIPING FOR NEW LAVATORY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.5 REMOVE EXISTING WATER CLOSET. MODIFY EXISTING PLUMBING PIPING FOR NEW WATER CLOSET. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.6 REMOVE EXISTING URINAL. MODIFY EXISTING PLUMBING PIPING FOR NEW URINAL. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

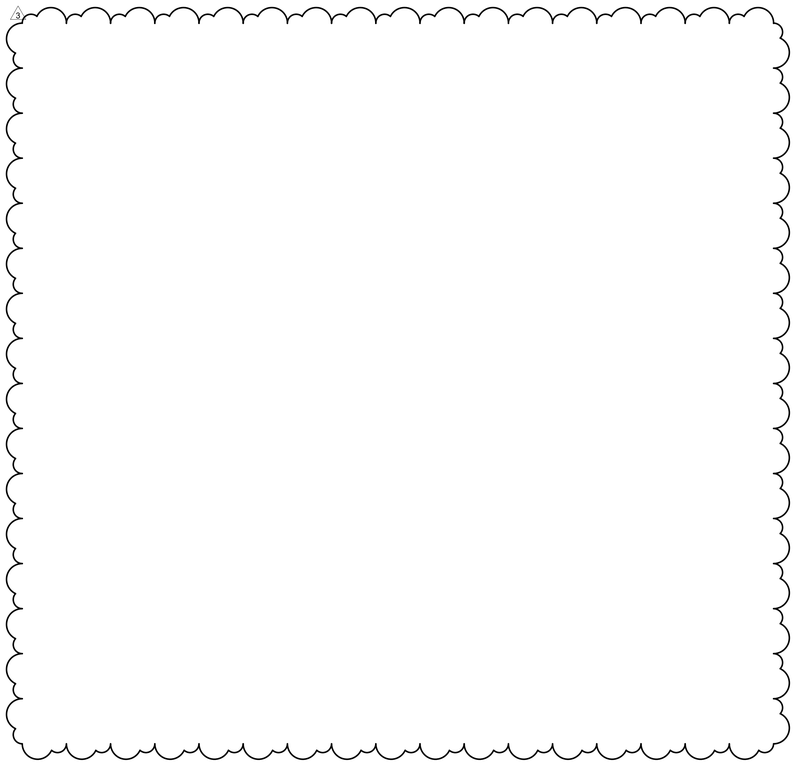
P10.7 EXISTING TO REMAIN.

P10.9 REMOVE EXISTING WATER CLOSET IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.11 REMOVE EXISTING DRINKING FOUNTAIN. MODIFY EXISTING PLUMBING PIPING FOR NEW WATER FOUNTAIN. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.13 REMOVE EXISTING URINAL IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.14 APPROXIMATE LOCATION OF EXISTING 3" FLOOR DRAIN. PREPARE FOR NEW FLOOR DRAIN TO BE EXTENDED BEYOND TOILET PARTITION. NEW GRATE SHALL BE SQUARE IN LIEU OF ROUND AS DESCRIBED IN PLUMBING FIXTURE SCHEDULE FOR FD-1. PREPARE SURROUNDING FLOOR AS REQUIRED. SAW-CUT SLAB AND PATCH TO MATCH AS REQUIRED.



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4 LEVEL 01 - DEMOLITION PLUMBING PLAN - RR 1-2
1/4" = 1'-0"

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LEVEL 01 - DEMOLITION PLUMBING PLAN - ENLARGED

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PLUMBING GENERAL PLAN NOTES

A. IF EXISTING RESTROOM FLOOR DRAINS ARE LOCATED DIRECTLY BELOW TOILET PARTITIONS THEY SHALL BE RELOCATED/SHIFTED OVER AS SHOWN IN THE NEW PLANS. SAW-CUT SLAB AND PATCH TO MATCH AS NECESSARY.

PLUMBING KEYED NOTES

P10.4 REMOVE EXISTING LAVATORY. MODIFY EXISTING PLUMBING PIPING FOR NEW LAVATORY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

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P10.7 EXISTING TO REMAIN.

P10.8 APPROXIMATE LOCATION OF EXISTING 3" FLOOR DRAIN. PREPARE FLOOR DRAIN FOR NEW STRAINER AND GRATE. NEW GRATE WILL BE SQUARE IN LIEU OF ROUND, PREPARE SURROUNDING FLOOR AS REQUIRED.

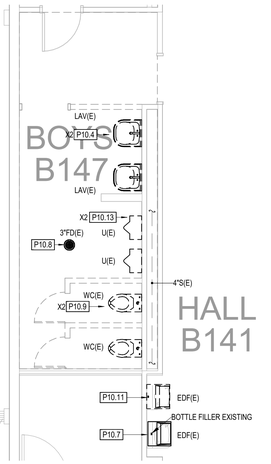
P10.9 REMOVE EXISTING WATER CLOSET IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.11 REMOVE EXISTING DRINKING FOUNTAIN. MODIFY EXISTING PLUMBING PIPING FOR NEW WATER FOUNTAIN. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.12 REMOVE EXISTING LAVATORY IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.13 REMOVE EXISTING URINAL IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.14 APPROXIMATE LOCATION OF EXISTING 3" FLOOR DRAIN. PREPARE FOR NEW FLOOR DRAIN TO BE EXTENDED BEYOND TOILET PARTITION. NEW GRATE SHALL BE SQUARE IN LIEU OF ROUND AS DESCRIBED IN PLUMBING FIXTURE SCHEDULE FOR FD-1. PREPARE SURROUNDING FLOOR AS REQUIRED. SAW-CUT SLAB AND PATCH TO MATCH AS REQUIRED.



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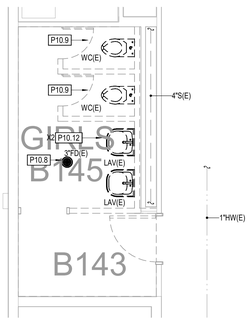
2 LEVEL 01 - DEMOLITION PLUMBING PLAN - RR 15
1/4" = 1'-0"



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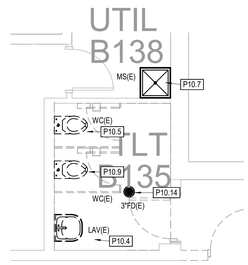
3 LEVEL 01 - DEMOLITION PLUMBING PLAN - RR 14
1/4" = 1'-0"



N TRUE

6 LEVEL 01 - DEMOLITION PLUMBING PLAN - RR 11
1/4" = 1'-0"

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LEVEL 01 - DEMOLITION PLUMBING PLAN - ENLARGED

P3.02

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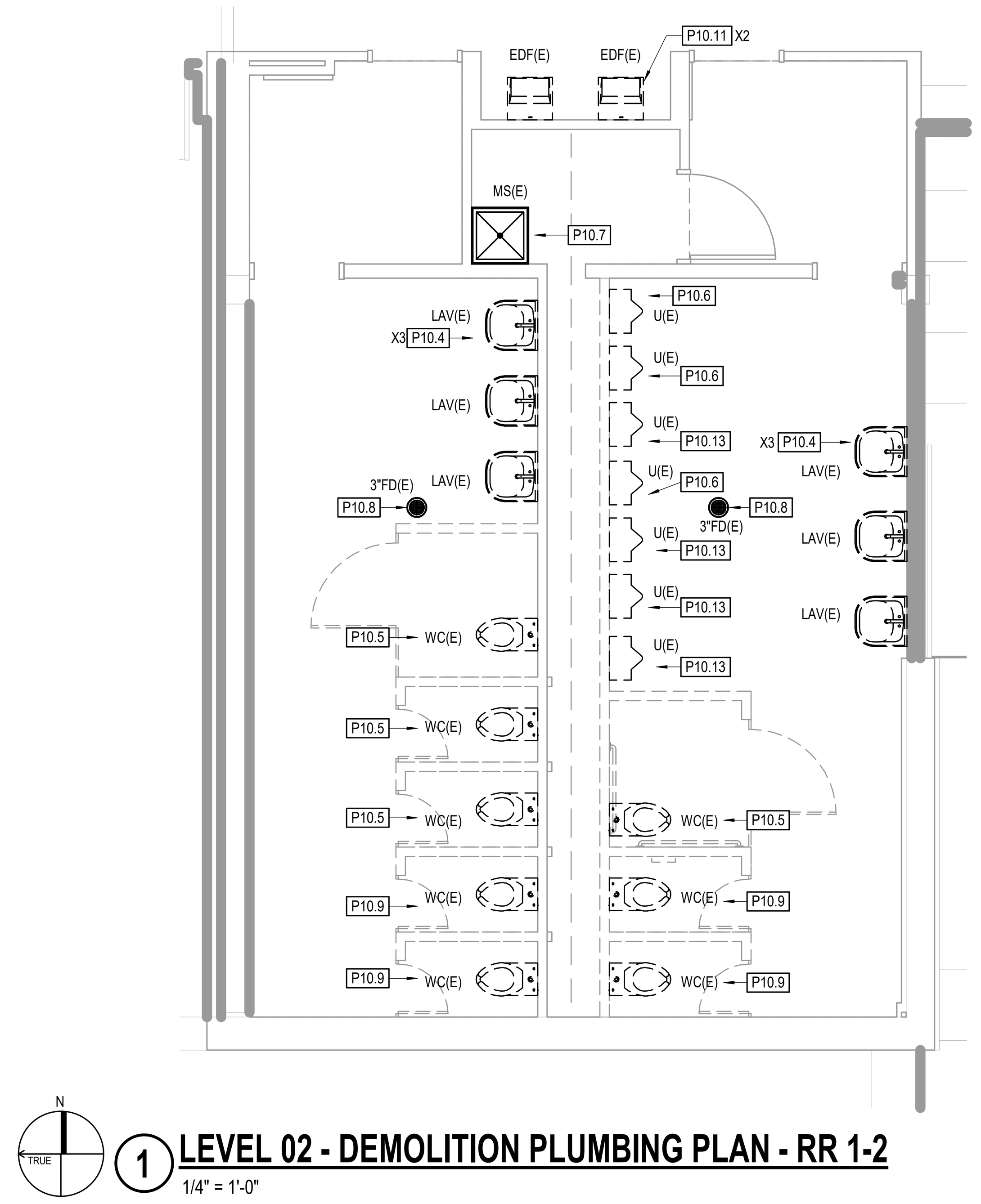
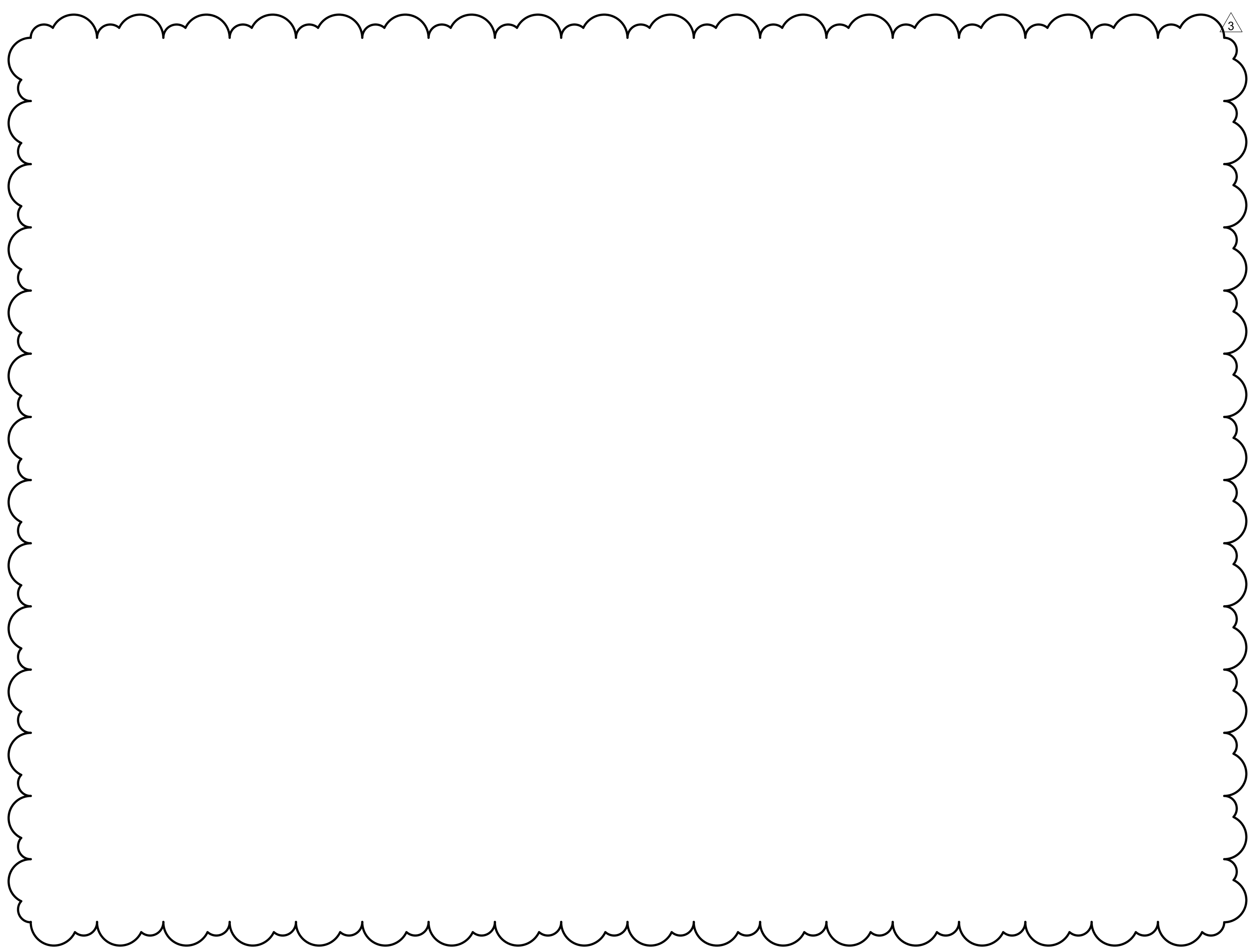


1 LEVEL 02 - DEMOLITION PLUMBING PLAN - RR 1-2

1/4" = 1'-0"



PLUMBING GENERAL PLAN NOTES

A. IF EXISTING RESTROOM FLOOR DRAINS ARE LOCATED DIRECTLY BELOW TOILET PARTITIONS THEY SHALL BE RELOCATED/SHIFTED OVER AS SHOWN IN THE NEW PLANS. SAW-CUT SLAB AND PATCH TO MATCH AS NECESSARY.

PLUMBING KEYED NOTES

P10.4 REMOVE EXISTING LAVATORY. MODIFY EXISTING PLUMBING PIPING FOR NEW LAVATORY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.5 REMOVE EXISTING WATER CLOSET. MODIFY EXISTING PLUMBING PIPING FOR NEW WATER CLOSET. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.6 REMOVE EXISTING URINAL. MODIFY EXISTING PLUMBING PIPING FOR NEW URINAL. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.7 EXISTING TO REMAIN.

P10.8 APPROXIMATE LOCATION OF EXISTING 3" FLOOR DRAIN; PREPARE FLOOR DRAIN FOR NEW STRAINER AND GRATE. NEW GRATE WILL BE SQUARE IN LIEU OF ROUND, PREPARE SURROUNDING FLOOR AS REQUIRED.

P10.9 REMOVE EXISTING WATER CLOSET IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.11 REMOVE EXISTING DRINKING FOUNTAIN. MODIFY EXISTING PLUMBING PIPING FOR NEW WATER FOUNTAIN. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.13 REMOVE EXISTING URINAL IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

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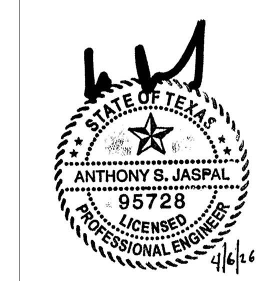

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LEVEL 02 - DEMOLITION PLUMBING PLAN - ENLARGED

P3.03

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PLUMBING KEYED NOTES

P2.1 APPROXIMATE LOCATION OF EXISTING SANITARY WASTE LINE BELOW FLOOR, SIZE AS NOTED.

P2.3 MODIFY AS REQUIRED AND CONNECT NEW SANITARY WASTE BELOW FLOOR TO EXISTING OF EQUAL OR GREATER SIZE.

P2.4 MODIFY AS REQUIRED AND CONNECT NEW VENT ABOVE CEILING TO EXISTING OF EQUAL OR GREATER SIZE.

P3.2 MODIFY AS REQUIRED AND CONNECT NEW COLD WATER ABOVE CEILING TO EXISTING OF EQUAL OR GREATER SIZE.

P3.7 DROP AND EXTEND MINIMUM 1-1/2" COLD WATER TO SERVE FIXTURE(S).

P3.10 HOT WATER DROP DOWN TO, RISE UP FROM, AND CIRCULATED HOT WATER LINE INSIDE WALL/CHASE AND WITHIN 2'-0" OF HOT WATER ROUGH-IN TO LAVATORY FOR 2015 IECC COMPLIANCE. SIZE AS NOTED.

P3.11 PROVIDE NORMALLY CLOSED BYPASS VALVE ON HOT WATER LOOP.

P3.12 DROP AND EXTEND 3/4" HOT WATER TO SERVE FIXTURE.

P3.13 HOT WATER RETURN BALANCING VALVE. SET TEMP AND FLOW AS SHOWN IN DRAWINGS.

P8.7 NEW FLOOR DRAIN LOCATION EXTENDED FROM EXISTING LOCATION. SAW-CUT SLAB AND PATCH TO MATCH AS NECESSARY.

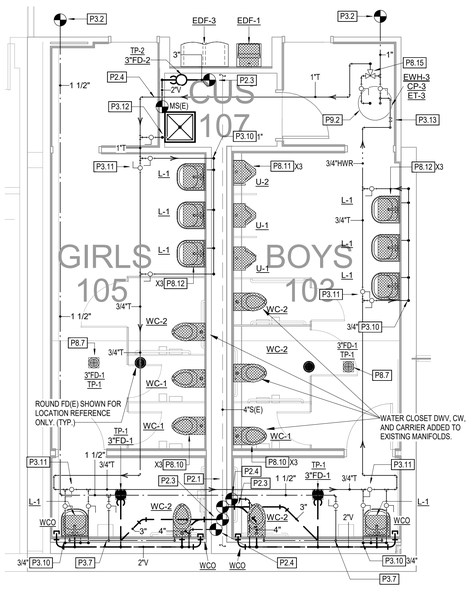
P8.10 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW WATER CLOSET. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW WATER CLOSET.

P8.11 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW URINAL. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW URINAL.

P8.12 EXTEND HOT/COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW LAVATORY/LAVATORIES. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW LAVATORY/LAVATORIES.

P8.15 PROVIDE (TMV-1) HYDROGUARD SERIES LFLM490 THERMOSTATIC TEMPERING VALVE FOR HOT WATER DISTRIBUTION.

P9.2 SUSPENDED ELECTRIC WATER HEATER T&P RELIEF VALVE AND DRAIN PAN SHALL DISCHARGE TO NEW FUNNEL DRAIN.



N TRUE

4 LEVEL 01 - PLUMBING PLAN - RR 1-2

1/4" = 1'-0"

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LEVEL 01 - PLUMBING PLAN - ENLARGED

P3.04

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PLUMBING KEYED NOTES

P2.1 APPROXIMATE LOCATION OF EXISTING SANITARY WASTE LINE BELOW FLOOR, SIZE AS NOTED.

P2.3 MODIFY AS REQUIRED AND CONNECT NEW SANITARY WASTE BELOW FLOOR TO EXISTING OF EQUAL OR GREATER SIZE.

P2.4 MODIFY AS REQUIRED AND CONNECT NEW VENT ABOVE CEILING TO EXISTING OF EQUAL OR GREATER SIZE.

P3.2 MODIFY AS REQUIRED AND CONNECT NEW COLD WATER ABOVE CEILING TO EXISTING OF EQUAL OR GREATER SIZE.

P3.6 DROP AND EXTEND 3/4" COLD WATER TO SERVE FIXTURE(S).

P3.7 DROP AND EXTEND MINIMUM 1-1/2" COLD WATER TO SERVE FIXTURE(S).

P3.10 HOT WATER DROP DOWN TO, RISE UP FROM, AND CIRCULATED HOT WATER LINE INSIDE WALL/CHASE AND WITHIN 2'-0" OF HOT WATER ROUGH-IN TO LAVATORY FOR 2015 IECC COMPLIANCE. SIZE AS NOTED.

P3.11 PROVIDE NORMALLY CLOSED BYPASS VALVE ON HOT WATER LOOP.

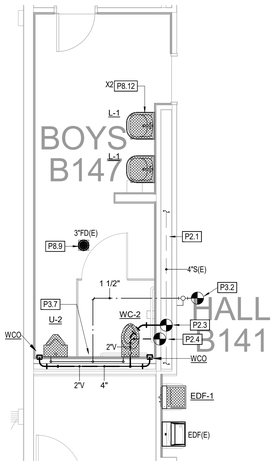
P3.14 MODIFY AS REQUIRED AND CONNECT NEW HOT WATER ABOVE CEILING TO EXISTING OF EQUAL OR GREATER SIZE.

P8.9 REPLACE EXISTING FLOOR DRAIN GRATE AND STRAINER IN SAME LOCATION. FLOOR DRAIN GRATE SHALL BE SQUARE TYPE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION. FLOOR DRAIN LOCATIONS WERE TAKEN FROM EXISTING ENGINEERING DRAWINGS ON FILE.

P8.10 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW WATER CLOSET. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW WATER CLOSET.

P8.12 EXTEND HOT/COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW LAVATORY/LAVATORIES. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW LAVATORY/LAVATORIES.

P8.17 EXISTING FIXTURE TO REMAIN.



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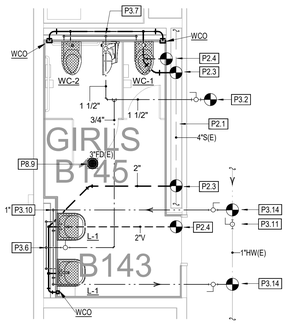
2 LEVEL 01 - PLUMBING PLAN - RR 15
1/4" = 1'-0"



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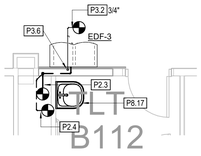
3 LEVEL 01 - PLUMBING PLAN - RR 14
1/4" = 1'-0"



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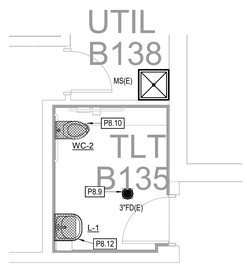
5 LEVEL 01 - PLUMBING PLAN - RR 10
1/4" = 1'-0"



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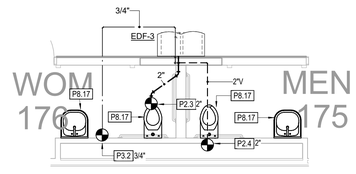
6 LEVEL 01 - PLUMBING PLAN - RR 11
1/4" = 1'-0"



N TRUE

8 LEVEL 01 - PLUMBING PLAN - LIBRARY DRINKING FOUNTAINS
1/4" = 1'-0"

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P3.05

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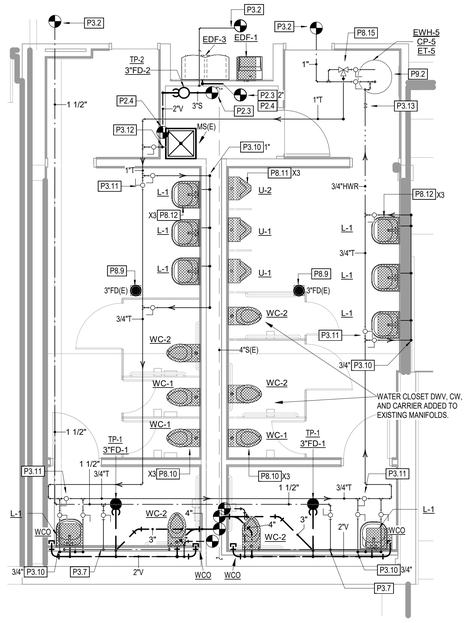

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1 **LEVEL 02 - PLUMBING PLAN - RR 1-2**

1/4" = 1'-0"

PLUMBING KEYED NOTES

P2.3 MODIFY AS REQUIRED AND CONNECT NEW SANITARY WASTE BELOW FLOOR TO EXISTING OF EQUAL OR GREATER SIZE.

P2.4 MODIFY AS REQUIRED AND CONNECT NEW VENT ABOVE CEILING TO EXISTING OF EQUAL OR GREATER SIZE.

P3.2 MODIFY AS REQUIRED AND CONNECT NEW COLD WATER ABOVE CEILING TO EXISTING OF EQUAL OR GREATER SIZE.

P3.7 DROP AND EXTEND MINIMUM 1-1/2" COLD WATER TO SERVE FIXTURE(S).

P3.10 HOT WATER DROP DOWN TO, RISE UP FROM, AND CIRCULATED HOT WATER LINE INSIDE WALL/CHASE AND WITHIN 2'-0" OF HOT WATER ROUGH-IN TO LAVATORY FOR 2015 IECC COMPLIANCE. SIZE AS NOTED.

P3.11 PROVIDE NORMALLY CLOSED BYPASS VALVE ON HOT WATER LOOP.

P3.12 DROP AND EXTEND 3/4" HOT WATER TO SERVE FIXTURE.

P3.13 HOT WATER RETURN BALANCING VALVE. SET TEMP AND FLOW AS SHOWN IN DRAWINGS.

P8.9 REPLACE EXISTING FLOOR DRAIN GRATE AND STRAINER IN SAME LOCATION. FLOOR DRAIN GRATE SHALL BE SQUARE TYPE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION. FLOOR DRAIN LOCATIONS WERE TAKEN FROM EXISTING ENGINEERING DRAWINGS ON FILE.

P8.10 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW WATER CLOSET. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW WATER CLOSET.

P8.11 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW URINAL. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW URINAL.

P8.12 EXTEND HOT/COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW LAVATORY/LAVATORIES. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW LAVATORY/LAVATORIES.

P8.15 PROVIDE (TMV-1) HYDROGUARD SERIES LFLM490 THERMOSTATIC TEMPERING VALVE FOR HOT WATER DISTRIBUTION.

P9.2 SUSPENDED ELECTRIC WATER HEATER T&P RELIEF VALVE AND DRAIN PAN SHALL DISCHARGE TO NEW FUNNEL DRAIN.

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PLUMBING FIXTURE SCHEDULE

PLAN MARK	MINIMUM ROUGH-IN SIZES					DESCRIPTION
	WASTE & VENT		DRAIN	CW	HW	
WATER CLOSET WC-1	4"	2"	4"	1-1/2"	---	AMERICAN STANDARD No. 2257.101 "AFWALL" WHITE V.C. ELONGATED SIPHON JET WALL HUNG (1.28 GPF) BOWL WITH TOP SPUD
FLUSH VALVE						SLOAN REGAL No. 111-1.28 FLUSH VALVE LOW CONSUMPTION (MANUAL) VALVE. POLISHED CHROME FINISH.
ACCESSORIES						BEMIS 1655-SS/CT EXTRA HEAVY DUTY TOILET SEAT, BLACK,ELONGATED BOWL, OPEN SEAT LESS COVER WITH SELF-SUSTAINING, STAINLESS STEEL CHECK HINGE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CARRIER. FOR FULL DESCRIPTION REFER TO PROJECT SPECIFICATIONS. REFER TO ARCHITECTS PLANS FOR ADA MOUNTING HEIGHT.
WATER CLOSET WC-2 ADA	4"	2"	4"	1-1/2"	---	AMERICAN STANDARD No. 2257.101"AFWALL" SAME AS ABOVE EXCEPT WITH TRIM AS REQUIRED FOR ADA USE. REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT.
URINAL U-1 ADA	2"	2"	2"	3/4"	---	AMERICAN STANDARD No. 6590.001 "WASHBROOK" WHITE V.C. WASHOUT FIXTURE (0.125 GPF) WITH WALL HANGERS, MOUNTING BRACKET, CHROME FINISH BEEHIVE STRAINER, TOP SPUD
FLUSH VALVE						SLOAN REGAL No. 111-1.28 FLUSH VALVE LOW CONSUMPTION (MANUAL) VALVE. POLISHED CHROME FINISH.
ACCESSORIES						PROVIDE ZURN OR EQUAL FLOOR MOUNTED CARRIER. FOR FULL DESCRIPTION REFER TO PROJECT SPECIFICATIONS, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT.
LAVATORY L-1 WALL MOUNT - ADA	2"	2"	1-1/4"	3/4"	3/4"	AMERICAN STANDARD LUCERNE 0356.421 WALL HUNG LAVATORY WITH FRONT OVERFLOW AND FAUCET HOLES DRILLED ON 4" CENTERS, WHITE VITREOUS CHINA.
FAUCET						CHICAGO No. 802-VE2805-317ABCP (0.5 GPM) CENTERSET FAUCET WITH VANDAL PROOF WRIST BLADE HANDLES.
ACCESSORIES						REFER TO PLUMBING SUPPLIES AND TRIM SCHEDULE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS.
ELECTRIC DRINKING FOUNTAIN EDF-1 ADA (LOWSIDE)	2"	2"	1-1/4"	3/4"	---	HALSEY TAYLOR No. HTHB-HACG8SS-WF BOTTLE FILLING STATION & SINGLE COOLER FILTERED REFRIGERATED STAINLESS. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50° F DRINKING WATER, BASED ON 80° F INLET WATER AND 90° F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE FILTERED, GREEN TICKER, LAMINAR FLOW, REAL DRAIN, VANDAL RESISTANT, VISUAL FILTER MONITOR. FURNISHED WITH VANDAL RESISTANT BUBBLER. ELECTRONIC BOTTLE FILLER BUTTON WITH MECHANICAL FRONT BUBBLER BUTTON ACTIVATION. PRODUCT SHALL BE WALL MOUNT (ON WALL), FOR INDOOR APPLICATIONS, SERVING 1 STATION(S). UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120.
ELECTRICAL REQUIREMENTS						1/5 HP, 4.0 FL. AMPS. WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS.
ACCESSORIES						REFER TO PLUMBING SUPPLY AND TRIM SCHEDULE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS.
ELECTRIC DRINKING FOUNTAIN EDF-2 (HIGHSIDE)	2"	2"	1-1/4"	3/4"	---	HALSEY TAYLOR No. HAC8SS-WF WALL MOUNT ADA COOLER FILTERED 8.0 GPH STAINLESS. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50° F DRINKING WATER, BASED ON 80° F INLET WATER AND 90° F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE FILTERED, FURNISHED WITH DOUBLE BUBBLER, MECHANICAL FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION. PRODUCT SHALL BE WALL MOUNT (ON WALL), FOR INDOOR APPLICATIONS, SERVING 1 STATION(S0. UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120.
ELECTRICAL REQUIREMENTS						1/5 HP, 4.0 FL. AMPS. WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS.
ACCESSORIES						REFER TO PLUMBING SUPPLY AND TRIM SCHEDULE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS.
ELECTRIC DRINKING FOUNTAIN EDF-3 ADA	2"	2"	1-1/4"	3/4"	---	HALSEY TAYLOR No. HTHB-HAC8BLSS-WF BOTTLE FILLING STATION & BI-LEVEL HIGH EFFICIENCY VANDAL RESISTANT COOLER FILTERED REFRIGERATED STAINLESS. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50° F DRINKING WATER, BASED ON 80° F INLET WATER AND 90° F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE ANTIMICROBIAL*, FILTERED, GREEN TICKER, HANDS FREE, HIGH EFFICIENCY, LAMINAR FLOW, REAL DRAIN, VANDAL RESISTANT, VISUAL FILTER MONITOR. FURNISHED WITH VANDAL RESISTANT STREAMSAVER ™ BUBBLER. ELECTRONIC BOTTLE FILLER SENSOR WITH MECHANICAL FRONT BUBBLER BUTTON ACTIVATION. PRODUCT SHALL BE WALL MOUNT (ON WALL), FOR INDOOR APPLICATIONS, SERVING 2 STATION(S). UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120.
ELECTRICAL REQUIREMENTS						1/5 HP, 4.0 FL. AMPS. WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS.
ACCESSORIES						REFER TO PLUMBING SUPPLY AND TRIM SCHEDULE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS.
MOP SINK MS-1	3"	2"	3"	3/4"	3/4"	MUSTEE MODEL No. 63M FLOOR MOUNTED SQUARE 24" X 24" HIGH IMPACT RESISTANT DURASTONE STRUCTURAL FIBBER GLASS MOP SERVICE BASIN.
FAUCET						MUSTEE MODEL No. 63.600A SERVICE FAUCET, HEAVY DUTY, CHROME PLATED BRASS DUAL HANDLE SINK FAUCET WITH TOP REINFORCING BAR AND PAIL HOOK ON SPOUT.
ACCESSORIES						MUSTEE MODEL No. 65.60 MOP HANGER, MUSTEE MODEL No. 65.700 HOSE AND HOSE HOLDER.

* - REFER TO DRAWINGS FOR SIZING.
GENERAL NOTES:
1. FOR ALL SUPPLY STOPS AND TRIM REFER TO THE PLUMBING FIXTURE SUPPLIES AND TRIM SCHEDULE.
2. FOR MOUNTING HEIGHTS OF INDIVIDUAL FIXTURES, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
3. CONTRACTOR TO COORDINATE LOCATION OF DRAINS AND FLOOR SINKS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

PLUMBING FIXTURE SCHEDULE

PLAN MARK	MINIMUM ROUGH-IN SIZES					DESCRIPTION
	WASTE & VENT		DRAIN	CW	HW	
THERMOSTATIC MIXING VALVE TMV-1	---	---	---	1/2"	1/2"	POWERS WATTS MODEL: LFLM490 LEAD FREE THERMOSTATIC MIXING VALVE, ASSE 1070 WITH INLET CHECK STOPS TO LIMIT HOT WATER TEMPERATURE. SET TEMPERATURE AT 110°. PROVIDE WITH MOUNTING BRACKET.
FLOOR DRAIN FD-1	3"	2"	3"	---	---	ZURN No. ZN-415 CAST IRON DRAIN WITH 6" DIAMETER TYPE 'B' STRAINER AND 1/2" IPS TRAP PRIMER CONNECTION. FOR FLOOR DRAIN BODY POURED IN CONCRETE SLAB PROVIDE ZURN Z1023 TRAP PRIMER EXTENSION.
FLOOR DRAIN FD-2	3"	2"	3"	---	---	ZURN No. ZN-415 CAST IRON DRAIN WITH 7" DIAMETER TYPE 'E' STRAINER, TRAP PRIMER CONNECTION AND 4" DIAMETER FUNNEL GRATE. FOR FLOOR DRAIN BODY POURED IN CONCRETE SLAB PROVIDE ZURN Z1023 TRAP PRIMER EXTENSION.
TRAP PRIMER TP-1	---	---	---	1/2"	---	PRECISION PLUMBING PRODUCTS, INC. FLUSH VALVE PRIMER No. FVP-1VB WITH VACUUM BREAKER TRAP REFILL SUPPLY. CONTRACTOR TO INSTALL PRIMER ON NEAREST WATER CLOSET TO FLOOR DRAIN SUPPLIED. ALL EXPOSED PIPING SHALL BE CHROME PLATED AND CONCEALED SUPPLY TUBING SHALL BE 1/2" TYPE "K" SOFT COPPER.
TRAP PRIMER TP-2	---	---	---	1/2"	---	PRECISION PLUMBING PRODUCTS, INC. No. PO-500 AUTOMATIC PRESSURE DROP TRAP PRIMER VALVE. INSTALL CONCEALED IN ACCESSIBLE LOCATION, BEHIND APPROVED ACCESS PANEL OR EXPOSED IN MECHANICAL EQUIPMENT AREAS WITH TRAP PRIMER DISTRIBUTION UNIT. INSTALL AT MINIMUM 15" A.F.F.
WALL CLEANOUT WCO	---	---	---	---	---	ZURN No. ZN-1440 DURO-COATED CAST IRON CLEANOUT TEE WITH COUNTER-SUNK GASKET, WATERTIGHT THREADED PLUG AND ZURN 1460 SQUARE SMOOTH ACCESS COVER WITH VANDAL PROOF SCREWS.
FLOOR CLEANOUT FCO	---	---	---	---	---	ZURN No.ZN-1400 CAST IRON CLEANOUT WITH COUNTER-SUNK PLUG AND ROUND SCORIATED TOP FOR GENERAL PURPOSE AREAS. PROVIDE VARIATION AS REQUIRED FOR FLOOR FINISH WHERE INSTALLED. SEE ARCHITECT DWGS FOR FLOOR TYPES.
GRADE CLEANOUT GCO	---	---	---	---	---	ZURN No. Z-1402 DURO-COATED CAST IRON CLEANOUT WITH WATERTIGHT COUNTER-SUNK PLUG AND SCORIATED SECURED TOP WITH FRAME. INSTALL IN 18"x18"x6" THICK CONCRETE PAD.

* - REFER TO DRAWINGS FOR SIZING.
GENERAL NOTES:
1. FOR ALL SUPPLY STOPS AND TRIM REFER TO THE PLUMBING FIXTURE SUPPLIES AND TRIM SCHEDULE.
2. FOR MOUNTING HEIGHTS OF INDIVIDUAL FIXTURES, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
3. CONTRACTOR TO COORDINATE LOCATION OF DRAINS AND FLOOR SINKS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

ELECTRIC WATER HEATER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL #	TYPE	FUEL	GALLONS	HEATING LOAD (BTU/hr)	CW INLET	HW OUTLET	GPH RECOVERY @ 80° TEMP RISE	STANDBY LOSS (%/hour)	ELECTRICAL REQUIREMENTS			
											VOLTS (V)	PHASE	kW	AMPS
ELECTRIC WATER HEATER EWH-3	A.O. SMITH	DEL-20	STORAGE TANK	ELECTRIC	20	13,649	1"	1"	20	0.87	480	3	4.0	4.8
ELECTRIC WATER HEATER EWH-5	A.O. SMITH	DEL-20	STORAGE TANK	ELECTRIC	20	13,649	1"	1"	20	0.87	480	3	4.0	4.8

NOTES:
1. FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS, VERIFY WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

PLAN MARK	MANUFACTURER	MODEL #	DESCRIPTION	ELECTRICAL REQUIREMENTS			
				VOLTS (V)	PHASE	kW	HP
CIRCULATION PUMP CP-3 (EWH-3)	GRUNDFOS	MAGNA3 32-60	ALL STAINLESS STEEL FLANGED PUMP, 1/25 HP WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS AND FITTED WITH REMOTE HEAT SENSING AQUASTAT CONTROLLER. CONTROLLED BY ELECTRICAL CONTRACTOR, DESIGNED AT 15 FT HEAD LOSS.	115	1	85 W	0.04
CIRCULATION PUMP CP-5 (EWH-5)	GRUNDFOS	MAGNA3 32-60	ALL STAINLESS STEEL FLANGED PUMP, 1/25 HP WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS AND FITTED WITH REMOTE HEAT SENSING AQUASTAT CONTROLLER. CONTROLLED BY ELECTRICAL CONTRACTOR, DESIGNED AT 15 FT HEAD LOSS.	115	1	85 W	0.04
THERMAL EXPANSION TANK ET-3	AMTROL	THERM-X-TROL MODEL ST-5-C	ASME THERMAL EXPANSION ABSORBERS, SAFETY RELIEF VALVE, MAXIMUM WORKING PRESSURE 150 PSIG, TOTAL VOLUME 2.0 GALLONS.	--	--	--	--
THERMAL EXPANSION TANK ET-5	AMTROL	THERM-X-TROL MODEL ST-5-C	ASME THERMAL EXPANSION ABSORBERS, SAFETY RELIEF VALVE, MAXIMUM WORKING PRESSURE 150 PSIG, TOTAL VOLUME 2.0 GALLONS.	--	--	--	--

PLUMBING FIXTURE SUPPLIES AND TRIM

FIXTURE	MANUFACTURER	STRAINER	P-TRAP	SIZE	ANGLE STOP AND SUPPLY RISER
LAVATORY	McGUIRE	HD155A	8872	1-1/4"	LFBV2165-LK, 1/2" I.P.S. X 3/8" O.D.
DRINKING FOUNTAIN	McGUIRE	HD155A	8872	1-1/4"	LFBV2165-LK, 1/2" I.P.S. X 3/8" O.D.
SINK	McGUIRE	152N	8912	1-1/2"	LFBV2165-LK, 1/2" I.P.S. X 3/8" O.D.
2 COMPARTMENT SINK, NO DISPENSER	McGUIRE	(2) 152N WITH CONTINUOUS WASTE 111C16G17	8912	1-1/2"	LFBV2165-LK, 1/2" I.P.S. X 3/8" O.D.

NOTE:

1. STRAINERS SHALL BE HEAVY CAST BRASS CHROME PLATED WITH MATCHING GRID TYPE STRAINER, WITH OR WITHOUT OVERFLOW AS REQUIRED. 17 GAUGE SEAMLESS BRASS TAILPIECE OF LENGTH DETERMINED BY INSTALLATION REQUIREMENTS. PROVIDE COMPLETE WITH WASHERS AND BRASS LOCKNUT.

2. P-TRAPS SHALL BE 17 GAUGE SEAMLESS CHROME-PLATED BRASS, ADJUSTABLE TYPE. PROVIDE COMPLETE WITH CLEANOUT PLUG, CHROME-PLATED BRASS SLIP NUTS, WALL BEND, AND WROUGHT BRASS ESCUTCHEON OF DEPTH DETERMINED BY INSTALLATION REQUIREMENTS.

3. ANGLE STOPS SHALL BE LEAD-FREE COMMERCIAL PATTERN CHROME-PLATED BRASS, QUARTER-TURN BALL TYPE WITH LOOSE KEY HANDLES. PROVIDE COMPLETE WITH CHROME-PLATED COPPER SUPPLY RISERS AND WROUGHT BRASS ESCUTCHEON OF DEPTH DETERMINED BY INSTALLATION REQUIREMENTS.

4. PIPE TRIM INSULATION SHALL BE COMPLIANT, WHITE MOLDED VINYL, FADE/DISCOLORATION-RESISTANT, BACTERIA/FUNGAL-RESISTANT INSULATION.
5. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CARRIER.

PIPING MATERIAL SCHEDULE

PIPING SYSTEM	PIPING MATERIAL
DOMESTIC HOT& COLD WATER PIPING, WITHIN BUILDING BELOW GRADE	COPPER TUBING: ASTM B88, TYPE K, SOFT ANNEALED
DOMESTIC HOT& COLD WATER PIPING, WITHIN BUILDING ABOVE GRADE	COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN.
FIRE SPRINKLER BELOW GROUND	DUCTILE IRON
FIRE SPRINKLER ABOVE GROUND - 2" AND SMALLER (WET PIPE SPRINKLER)	ASTM A135/A135M / ASTM A53/A53M SCHEDULE 10 BLACK STEEL PIPE WITH ROLL-GROOVED ENDS. JOINED WITH MECHANICAL COUPLINGS AND WITH MANUFACTURED CARBON STEEL GROOVED FITTINGS WITH MATCHING MECHANICAL COUPLINGS FOR PIPE 2-1/2" AND LARGER.
FIRE SPRINKLER ABOVE GROUND - 2-1/2" AND LARGER (WET PIPE SPRINKLER)	ASTM A135/A135M / ASTM A53/A53M SCHEDULE 10 BLACK STEEL PIPE WITH ROLL-GROOVED ENDS. JOINED WITH MECHANICAL COUPLINGS AND WITH MANUFACTURED CARBON STEEL GROOVED FITTINGS WITH MATCHING MECHANICAL COUPLINGS FOR PIPE 2-1/2" AND LARGER.
SANITARY SOIL, WASTE AND VENT PIPING, BURIED WITHIN 5 FT OF BUILDING, BELOW GRADE	PVC PIPE: ASTM D1785 / ASTM D2665 SCHEDULE 40 SOLID WALL; INSTALLED PER ASTM D2321.
SANITARY SOIL, WASTE AND VENT PIPING, WITHIN BUILDING, ABOVE GRADE	CAST IRON PIPE: CISPI 301 OR ASTM A888, HUBLESS.
GENERAL NOTES: 1. REFER TO PROJECT SPECIFICATIONS FOR FURTHER CLARIFICATION AND COMPLETE PIPING DESCRIPTION.	

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PLUMBING SCHEDULES

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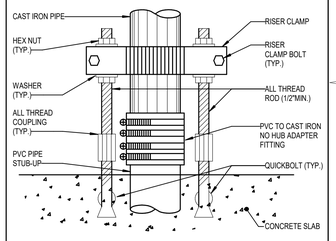
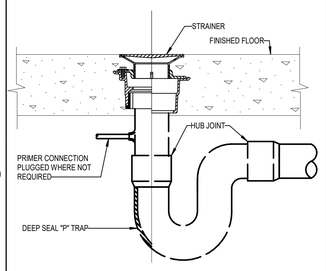
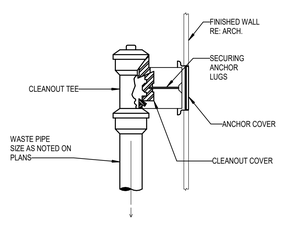


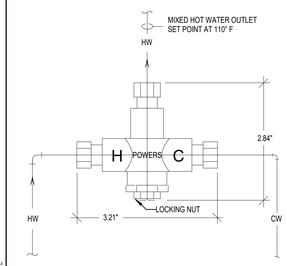
1 PVC TO CAST IRON SUPPORT P1505



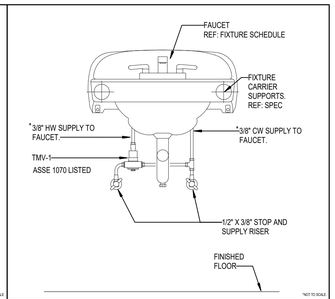
2 FLOOR DRAIN P1505



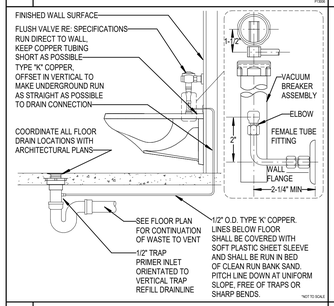
3 WALL CLEANOUT - FIRE DEPT. P1871



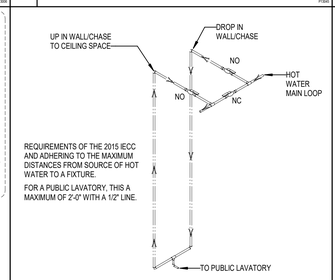
4 THERMOSTATIC MIXING VALVE P1505



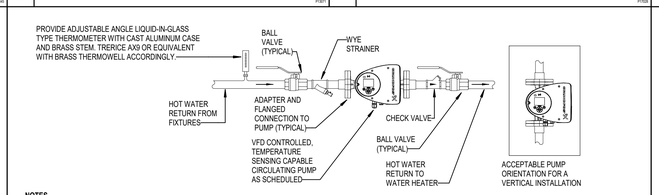
5 TMV-1 INSTALLATION P1504



6 TRAP PRIMER P1505



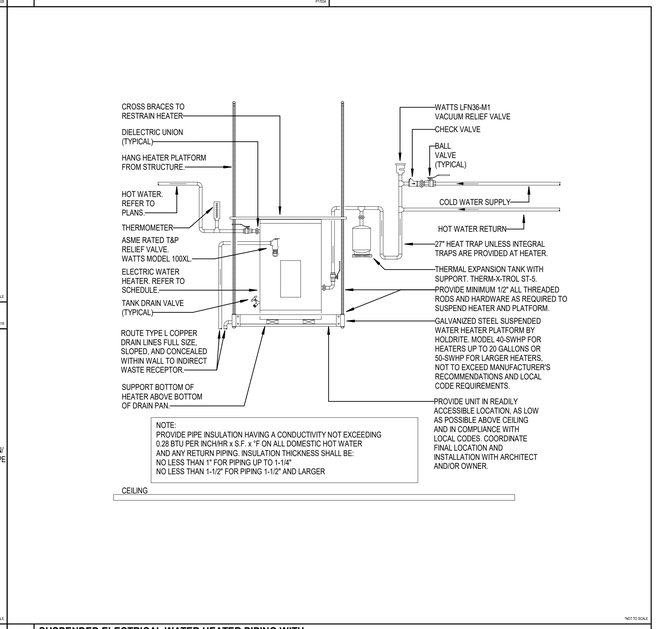
7 HOT WATER LOOP W/BYPASS P1505



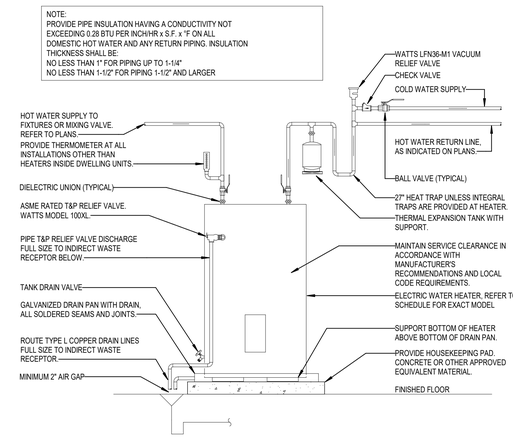
NOTES

1. MOUNT PUMP SECURELY IN AN ACCESSERLE LOCATION AT 48" A.F.F.
2. ENSURE THERMOMETER IS POSITIONED FOR CLEAR VISIBILITY AND READABILITY FROM A STANDING POSITION AT FLOOR LEVEL.
3. INSULATION IS NOT SHOWN FOR CLARITY BUT SHALL BE PROVIDED AS SPECIFIED.
4. CONTROL BOX SHALL BE ROTATED IN THE FIELD AS NECESSARY PER MANUFACTURER RECOMMENDATIONS TO ENSURE ADEQUATE COOLING. ADDITIONALLY, THE TEMPERATURE OF THE AMBIENT AIR MUST NOT EXCEED 104 DEGREES F.
5. THE PUMP CAN BE INSTALLED IN A HORIZONTAL (AS SHOWN) OR VERTICAL PIPE BUT THE PUMP SHALL ALWAYS BE INSTALLED WITH A HORIZONTAL MOTOR SHAFT. ROTATE PUMP "HEAD" COMPONENT IN THE FIELD AS NECESSARY PER THE MANUFACTURER'S INSTRUCTIONS.
6. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS, THE PUMP SHALL BE SET TO CONSTANT TEMPERATURE CONTROL MODE. THIS MODE SHALL KEEP RETURN PIPE TEMPERATURE CONSTANT AND ALSO LIMIT FLOW TO A MAXIMUM RATE. THE PUMP SHALL AUTOMATICALLY RAMP DOWN WHEN WATER IN THE CIRCULATION LOOP IS AT THE DESIRED TEMPERATURE. REFER TO THE PLANS FOR SYSTEM TEMPERATURE AND FLOW CRITERIA.

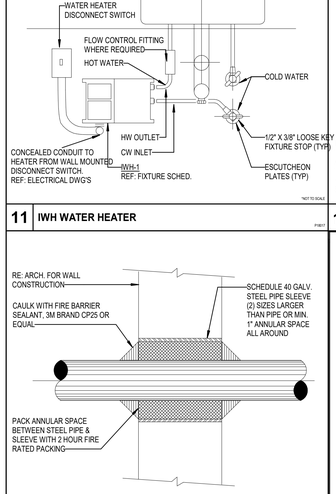
8 DOMESTIC HOT WATER CIRCULATOR PIPING INSTALLATION - VFD CONTROLLED "SMART" PUMP P1609



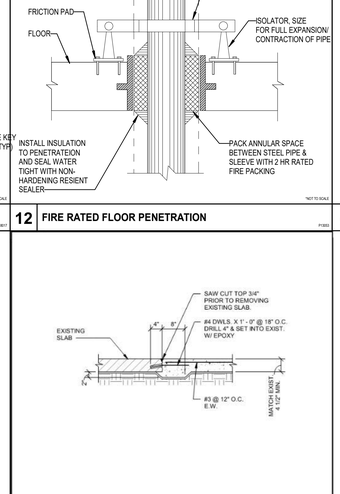
9 SUSPENDED ELECTRICAL WATER HEATER PIPING WITH HOTE WATER RETURN P1605



10 FLOOR MOUNTED ELECTRIC WATER HEATER W/HOT WATER RETURN P1605



11 IWH WATER HEATER P1607



12 FIRE RATED FLOOR PENETRATION P1605

13 FIRE RATED WALL PIPE PENETRATION P1605

TYPICAL DETAIL
SLAB REPAIR AT EXISTING
SCALE: 3/4" = 1'-0"

14

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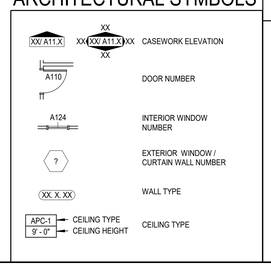
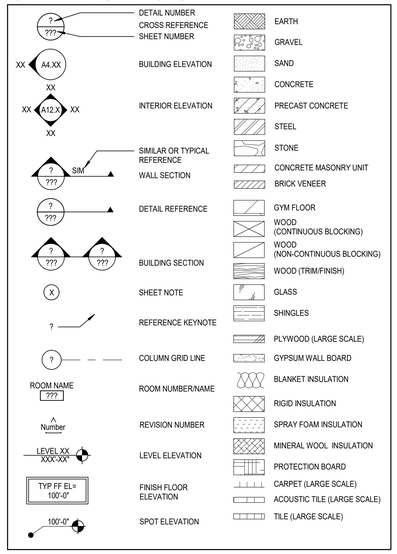
		GD	GARBAGE DISPOSAL	SC	SHOWER CURTAIN
		GEN	GENERAL	SCD	SEAT COVER DISPENSER
A/E	ARCHITECT/ENGINEER	GFA	GROSS FLOOR AREA	SCH	SHOWER CURTAIN HOOK
AB	AIR BARRIER	GL	GLUE LAMINATED	SCR	SHOWER CURTAIN ROD
ABS	ASBESTOS	GL	GLASS	SCT	STRUCTURAL CLAY TILE
ACC	ADA ACCESSIBLE	GMP	GUARANTEED MAXIMUM PRICE	SD	SOAP DISPENSER
ACR	ACRYLIC	GR	GUARD RAIL	SECY	SECRETARY
ACT	ACOUSTIC CEILING TILE	GR	GRADE	SF	SQUARE FEET
AD	ACCESS DOOR	GRS	GALVANIZED RIGID STEEL	SG	SPANDREL GLASS
ADJ	ADJUSTABLE	GWB	GYPSUM WALL BOARD	SG	SPECIALTY GLASS
ADJT	ADJACENT	GYP	GYPSUM	SGL	SINGLE
ADMIN	ADMINISTRATION			SGV	SINGLE GAS VALVE
AED	AUTOMATED EXTERNAL DEFIBRILLATORS	HC	HOLLOW CORE	SH	SHOWER
AL	ALUMINUM	HD	HAND DRYER	SHM	SECURITY HOLLOW METAL
ALUM	ALUMINUM	HDF	HIGH DENSITY FIBERBOARD	SLNT	SEALANT
AP	ACCESS PANEL	HDR	HEADER	SM	SHEET METAL
APC	ACOUSTIC PANEL CEILING	HDWD	HARDWOOD	SND	SANITARY NAPKIN DISPOSAL
ASPH	ASPHALT	HDWR	HARDWARE	SNV	SANITARY NAPKIN VENDOR
AUTO	AUTOMATIC	HM	HOLLOW METAL	SO	SENSOR OPERATED
AVG	AVERAGE	HR	HOUR	SPL	SOUND PRESSURE LEVEL
AWP	ACOUSTIC WALL PANEL	HR	HANDRAIL	SQ	SQUARE
		HS	HARDWARE SET	SR	SURFACE MOUNTED ELECTRICAL RACEWAY
B.O.	BOTTOM OF	HSS	HOLLOW STRUCTURAL SHAPE	SS	SOLID SURFACE
BCS	BABY CHANGING STATION	HVAC	HEATING VENTILATING AND AIR CONDITIONING	SSA	STORM SHELTER AREA
BD	BOARD			SSM	SOLID SURFACE
BLK	BLOCK	IAW	IN ACCORDANCE WITH	SSS	STAINLESS STEEL SHELF
BLKG	BLOCKING	ID	INSIDE DIAMETER	SST	STAINLESS STEEL
BLKHD	BULKHEAD	IF	INSIDE FACE	ST	STONE
BM(S)	BEAM(S)	IIP	INSULATED INFILL PANEL GLASS	ST	STAIR
BOT	BOTTOM	IJ	ISOLATION JOINT	STAG'D	STAGGERED
BRDG	BRIDGING	IJS	IN JOIST SPACE	STC	SOUND TRANSMISSION CLASS
BRG	BEARING	INC	INCLUDE(ING)	STGR	STRINGER
BRKT	BRACKET	INSUL	INSULATION	SUBFL	SUBFLOOR
BT	BATHTUB			SUL	SULPHUR
BTWN	BETWEEN	JAN	JANITOR	SURF	SURFACE
		JBE	JOIST BEARING ELEVATION	SUSP	SUSPENDED
CAB	CABINET	JBX	JUNCTION BOX	SVF	SHEET VINYL FLOORING
CBD	CHALKBOARD	JCT	JUNCTION	SVF	SERVICE FIXTURE
CER	CERAMIC	JFB	JOINT FILLER BOARD	SVG	SERVICE FIXTURE GROUP
CF	CUBIC FEET	JST	JOIST		
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	JT	JOINT	T	TREAD
CFMF	COLD-FORMED METAL FRAMING			T&G	TONGUE AND GROOVE
CG	CLEAR FLOAT GLASS	KCJ	KEYED CONSTRUCTION JOINT	T.O.	TOP OF
CGD	CORNER GUARD	KD	KNOCKDOWN	TAN	TANGENT
CI	CAST IRON	KH	KITCHEN HOOD	TB	TOWEL BAR
CIG	CLEAR INSULATING GLASS	KIT	KITCHEN	TBD	TACK BOARD
CIP	CAST IN PLACE			TCP	TOILET COMPARTMENT PARTITION
CJ	CONTROL JOINT	L	ANGLE	TERR	TERRAZZO
CJA	CONTROL JOINT ABOVE	LAB	LABORATORY	TFG	TINTED FLOAT GLASS
CLO	CLOSET	LAM	LAMINATED	TG	TEMPERED GLASS
CLR	CLEAR	LAV	LAVATORY	TH	THRESHOLD
CMU	CONCRETE MASONRY UNIT	LBR	LUMBER	THK	THICK(NESS)
COL	COLUMN	LDG	LOADING	TI	TENANT IMPROVEMENT
COM	COMMON	LF	LINEAR FOOT	TIG	TINTED INSULATING GLASS
COMB	COMBINATION	LG	LENGTH (LONG)	TMR	TILT MIRROR UNIT
COMM	COMMUNICATIONS	LG	LAMINATED GLASS	TOIL	TOILET
COMPR	COMPRESSIBLE	LIN	LINEAR	TOP	TOP OF PAVING
CONF	CONFERENCE	LINO	LINOLEUM	TRANS	TRANSVERSE
CONFIG	CONFIGURATION	LKR	LOCKER	TT	TERRAZZO TILE
CORR	CORRIDOR	LOC	LOCATION	TTD	TOILET TISSUE DISPENSER
CP	COVER PLATE	LONG	LONGITUDINAL	TTG	TINTED TEMPERED FLOAT GLASS
CPT	CARPET	LSC	LIFE SAFETY CODE	TTIG	TINTED TEMPERED INSULATING GLASS
CR	CHAIR RAIL	LTG	LIGHTING	TW	TACK WALL
CS	COUNTERSINK	LV	LOUVER		
CSTJ	CONSTRUCTION JOINT	LVT	LUXURY VINYL TILE	UL	UNDERWRITERS LABORATORIES
CSWK	CASEWORK			UR	URINAL
CT	CERAMIC TILE	MAG	MAGNETIC	US	UTILITY SHELF
CTG	CLEAR TEMPERED FLOAT GLASS	MAINT	MAINTENANCE	UTIL	UTILITY
CTIG	CLEAR TEMPERED INSULATING GLASS	MAN	MANUAL		
CU	COPPER	MAS	MASONRY	VB	VAPOR BARRIER
CU	COMBINATION UNIT	MATL	MATERIAL	VB	VINYL BASE
CV	CONDOM VENDOR	MB	MOP BASIN	VCB	VENTED COVE BASE
CY	CUBIC YARD	MBD	MARKER BOARD	VF	VINYL FLOOR
CYL	CYLINDER	MBH	MOP/BROOM HOLDER	VOC	VOLITILE ORGANIC COMPOUND
		MC	MEDICINE CABINET	VOL	VOLUME
DB	DECIBEL	MEMB	MEMBRANE	VP	VENEER PLASTER
DBL	DOUBLE	MH	MANHOLE	VT	VINYL TILE
DC	DUST COLLECTOR	MRS	MIRROR WITH SHELF	VWC	VINYL WALL COVERING
DEPR	DEPRESS(ION)(ED)	MTD	MOUNTED		
DEPT	DEPARTMENT	MTG	MOUNTING	W	WIDE
DET	DETENTION	MUL	MULLION	WB	WALL BASE
DF	DRINKING FOUNTAIN			WC	WATER CLOSET
DG	DOOR GRILLE	NC	NOISE CRITERIA	WC	WALL COVERING
DIAG	DIAGONAL	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	WCL	WATER CLOSET/LAVATORY COMBINATION
DPFG	DAMPROOFING	NOM	NOMINAL	WD	WOOD
DR	DOOR			WDF	WOOD FLOORING
DSN	DOWNSPOUT NOZZLE	O to O	OUT TO OUT	WDW	WINDOW
DW	DISHWASHER	OA	OVERALL	WG	POLISHED WIRE GLASS
DWL(S)	DOWEL(S)	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	WI	WROUGHT IRON
DWR	DRAWER	OFF	OFFICE	WOM	WALK OFF MAT
		OFOI	OWNER FURNISHED OWNER INSTALLED	WR	WASTE RECEPTACLE
EB	EXPANSION BOLT	OH	OPPOSITE HAND	WRB	WEATHER RESISTANT BARRIER
EE	EACH END	OPG(S)	OPENING(S)	WW	WARM WHITE
EEW	EMERGENCY EYE WASH	OSHA	OPERATIONAL SAFETY AND HEALTH ADMINISTRATION	WWF	WELDED WIRE FABRIC
EEWS	EMERGENCY EYE WASH SHOWER	OTB	OPEN TO BELOW		
EFF	EFFICIENCY	OVFL	OVERFLOW	YD	YARD
EJ	EXPANSION JOINT				
ELAS	ELASTOMERIC	P	PAINT		
ELEV	ELEVATOR	PAN B	PANIC BOLT		
EMER	EMERGENCY	PB	PARTICLE BOARD		
ENCL	ENCLOSURE	PC	PRECAST CONCRETE		
ENTR	ENTRANCE	PCD	PAPER CUP DISPENSER		
ERF	EPOXY RESIN FLOORING	PCT	PORCELAIN CERAMIC TILE		
EUI	ENERGY USE INTENSITY	PD	PANIC DEVICE		
EW	EACH WAY	PERF	PERFORATED		
EWC	ELECTRIC WATER COOLER	PERP	PERPENDICULAR		
EXP	EXPANSION	PG	PATTERN GLASS		
EXP	EXPOSED	PIC	PORTABLE INSTRUMENT CONNECTION		
		PIG	PATTERN INSULATING GLASS		
F	FABRIC	PL	PLATE		
F.O.	FACE OF	PL	PROPERTY LINE		
FAB	FABRICATE(D)	PL	PLASTIC LAMINATE		
FB	FACE BRICK	PLAM	PLASTIC LAMINATE		
FD	FLOOR DRAIN	PLBG	PLUMBING		
FDN	FOUNDATION	PR	PAIR		
FE	FIRE EXTINGUISHER	PREFAB	PREFABRICATED		
FEC	FIRE EXTINGUISHER CABINET	PROJ	PROJECT(OR) (ION)		
FF	FINISH FLOOR	PS	PROJECTION SCREEN		
FH	FIRE HYDRANT	PT	POINT		
FHC	FIRE HOSE CABINET	PT	POINT OF TANGENCY		
FIG	FIGURE	PTD	PAPER TOWEL DISPENSER		
FIX	FIXTURE	PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE		
FLASH	FLASHING	PTN	PARTITION		
FLEX	FLEXIBLE	PVC	POLYVINYL CHLORIDE		
FLG	FLOORING	PWL	SOUND POWER LEVEL		
FLM	FULL LENGTH MIRROR				
FLUOR	FLUORESCENT	QGV	QUAD GAS VALVE		
FO	FINISH OPENING	QT	QUARRY TILE		
FOC	FACE OF CONCRETE	QTR RND	QUARTER ROUND		
FOF	FACE OF FINISH				
FOM	FACE OF MASONRY	R	RISER		
FOS	FACE OF STUD	RAD	RADIUS		
FOW	FACE OF WALL	RB	RUBBER BASE		
FP	FIREPROOFING	RC	REMOTE CONTROL		
FPG	FIRE-PROTECTIVE GLASS	RCP	REFLECTED CEILING PLAN		
FR	FIRE RESISTANT	RD	ROOF DRAIN		
FRG	FIRE-RESISTIVE GLASS	REF	REFERENCE		
FRP	FIBERGLASS REINFORCED PANEL	REFL	REFLECTED		
FRT	FIRE RESISTANCE TREATED	REM	REMOVABLE		
FS	FLOOR SINK	RESIL	RESILIENT		
FSS	FOLDING SHOWER SEAT	RF	RESILIENT FLOORING		
FTG	FOOTING	RF	RUBBER FLOOR		
FVC	FIRE VALVE CABINET	RFM	RECESSED FLOOR MAT		
FWC	FABRIC WALL COVERING	RH	ROBE HOOK		
		RI&C	ROUGH IN AND CONNECT		
G	GROUT				
GA	GAUGE	S	SINK		
GAL	GALLON	SAT	SPRAYED ACOUSTIC TREATMENT		
GALV	GALVANIZED	SAW	SOUND ABSORBING WALL UNITS		
GB	GRAB BAR	SB	SPLASH BLOCK		
		SC	SOLID CORE		

ARCHITECTURAL SYMBOLS



GENERAL SYMBOLS



PROJECT DESCRIPTION

THE SCOPE OF THIS PROJECT IS AN INTERIOR IMPROVEMENT OF SELECT EXISTING RESTROOMS WITHIN AN EXISTING ELEMENTARY SCHOOL. WORK TO INCLUDE NEW WALLS, CEILINGS, DOORS, MILLWORK AND FINISHES; WITH SOME MECHANICAL, ELECTRICAL AND PLUMBING ADJUSTMENTS.

NO CHANGE TO OCCUPANCY TYPE.

TABP: TABS2026004785

APPLICABLE CODES/GUIDELINES

APPLICABLE CODES & REGULATIONS:

GOVERNING AHJ: A. CITY OF HOUSTON
B. STATE OF TEXAS

A. CITY & STATE LEVEL GOVERNING CODES & REGULATIONS:

BUILDING:	2021 INTERNATIONAL BUILDING CODE (IBC) 2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
ENERGY:	2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
FIRE PROTECTION:	2021 FIRE CODE (INTERNATIONAL FIRE CODE)
PLUMBING:	2021 UNIFORM PLUMBING CODE (UPC)
MECHANICAL:	2021 UNIFORM MECHANICAL CODE (UMC)
FUEL/GAS:	2021 INTERNATIONAL FUEL GAS CODE (IFGC)
ELECTRICAL:	2023 INTERNATIONAL ELECTRICAL CODE (NEC)
ACCESSIBILITY:	2012 TEXAS ACCESSIBILITY STANDARDS (TAS) TDLR COMPLIANCE FOR ELIMINATION OF ARCHITECTURAL BARRIERS
TEA:	TEXAS EDUCATION AGENCY (TEA) RULES APPLY FOR SCHOOL FACILITIES STANDARDS, INCLUDING SPACE REQUIREMENTS
HEALTH & SAFETY:	TEXAS HEALTH AND SAFETY CODES GOVERNING HEALTH AND SANITATION REQUIREMENTS FOR SCHOOL FACILITIES; INCLUDING FOOD SERVICE AREAS AND WATER QUANTITY STANDARDS

CONSTRUCTION TYPE:	II-A
OCCUPANCY GROUP:	GROUP E
FIRE SPRINKLERED:	YES
FIRE ALARM:	YES

DEFERRED SUBMITTALS

MODIFICATIONS TO THE EXISTING SPRINKLERS AND FIRE ALARMS SHALL BE SUBMITTED AND PERMITTED SEPARATELY, PRIOR TO THEIR MODIFICATIONS.

PROJECT TEAM

CLIENT: **ALIEF INDEPENDENT SCHOOL DISTRICT**
4250 COOK ROAD
HOUSTON, TX 77072
ATTN: JESSE GONZALEZ; JESSE.GONZALEZ@ALIEFISD.NET

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MEP: DBR INC
9990 RICHMOND AVE, SUITE 300
HOUSTON, TX 77042
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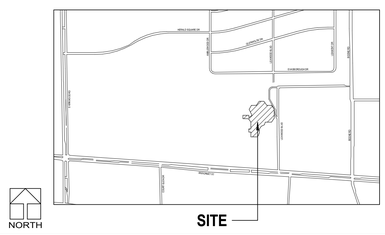

ALIEF ISD RESTROOM RENOVATION - PACKAGE I

BOONE ELEMENTARY SCHOOL

11400 BISSONNET STREET
HOUSTON, TEXAS 77099

ISSUE FOR BID & PERMIT

OCTOBER 31, 2025

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DLR GROUP
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ALIEF INDEPENDENT SCHOOL DISTRICT
11400 BISSONNET STREET
HOUSTON, TX 77099

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3 02-11-26 ISSUE FOR BID & PERMIT

39-25156-00

COVER SHEET

G0.1

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Area/Occupant Load Schedule (Code Analysis)				
Name	Function of Space	Area	Occupancy Load Factor	OLF
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	182 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	122 SF	300	1
CUSTODIAN	ACCESSORY STORAGE, MECH EQUIP ROOMS	83 SF	300	1
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	62 SF	300	1
MECHAN ICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	62 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	1178 SF	300	4
MECH / STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	936 SF	300	4
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	299 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	304 SF	300	2
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	206 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	320 SF	300	2
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	163 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	437 SF	300	2
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	1255 SF	300	5
GYMNASIUM	ASSEMBLY W/O FIXED SEATS (UNCONCENTRATED)	2849 SF	15	190
CAFETORIUM	ASSEMBLY W/O FIXED SEATS (UNCONCENTRATED)	5642 SF	15	377
OFFICE	BUSINESS AREAS	99 SF	150	1
BUSINESS	BUSINESS AREAS	387 SF	150	3
BUSINESS	BUSINESS AREAS	213 SF	150	2
BUSINESS	BUSINESS AREAS	5212 SF	150	35
BUSINESS	BUSINESS AREAS	234 SF	150	2
BUSINESS	BUSINESS AREAS	149 SF	150	1
BUSINESS	BUSINESS AREAS	147 SF	150	1
CLASSROOMS	EDUCATIONAL CLASSROOMS	3804 SF	20	191
CLASSROOMS	EDUCATIONAL CLASSROOMS	3822 SF	20	192
CLASSROOMS	EDUCATIONAL CLASSROOMS	10239 SF	20	512
CLASSROOMS	EDUCATIONAL CLASSROOMS	10237 SF	20	512
CLASSROOMS	EDUCATIONAL CLASSROOMS	10233 SF	20	512
CLASSROOMS	EDUCATIONAL CLASSROOMS	10241 SF	20	513
CLASSROOMS	EDUCATIONAL CLASSROOMS	9069 SF	20	454
CLASSROOMS	EDUCATIONAL CLASSROOMS	954 SF	20	48
CLASSROOMS	EDUCATIONAL CLASSROOMS	2988 SF	20	150
KITCHEN	KITCHENS, COMMERCIAL	2184 SF	200	11
LIBRARY	LIBRARY (STACK AREA)	4683 SF	100	47
STAGE	STAGE AND PLATFORMS	1373 SF	15	92
		90,368 SF		3873

2,343 OCCUPANTS BASED ON TEA

TOTAL OCCUPANT LOAD = 3,873 OCCUPANTS

TOTAL EXIT CAPACITY = 7,920 OCCUPANTS

LEGEND - CODE FLOOR PLANS

Area name	XXXX SF
Space Function	
XXX OCC	XXX SF/OCC G

OCCUPANT LOAD TAG
- SEE PATTERN FOR APPLIED LOAD FACTOR
- SELECT FUNCTION OF SPACE FOR AREA
- INPUT CALCULATED OCCUPANT LOAD

ROOM NUMBER
AREA (SF)
OCCUPANT LOAD

OCCUPANT LOAD TAG
- SEE PATTERN FOR APPLIED LOAD FACTOR
- SELECT FUNCTION OF SPACE FOR AREA
- INPUT OCCUPANT LOAD

ROOM NAME
AREA (SF)
OCCUPANT LOAD

OCCUPANT LOAD TAG
- SEE PATTERN FOR APPLIED LOAD FACTOR
- SELECT FUNCTION OF SPACE FOR AREA
- INPUT OCCUPANT LOAD

EXIT TAG
- CUMULATIVE OCCUPANT LOAD
- EGRESS CAPACITY

REQUIRED OCCUPANT LOAD
REQUIRED WIDTH FOR OCCUPANT LOAD (INCHES)

CAPACITY OF EGRESS COMPONENT (WIDTH IN INCHES)
CAPACITY OF EGRESS COMPONENT (OCCUPANTS)
EGRESS CAPACITY FACTOR (INCHES/OCCUPANT)
- WHEN CAPACITY FACTOR TRIANGLE IS FILLED - THIS IS TOTAL OCCUPANT LOAD AT THIS EXIT FROM THIS STORY

DOOR TAG
- PANIC DEVICE
- DOOR FIRE RATING

EXIT SIGN

MAX TRAVEL = Length — EXIT ACCESS TRAVEL DISTANCE

MAX CP = Length — COMMON PATH OF EGRESS TRAVEL DISTANCE

MAX DIAG DIM = X'-X" / 1/3 DIAG = X'-X" — MAX OVERALL DIAGONAL DIM OF AREA SERVED

MIN SEPARATION DISTANCE = X'-X" — MIN EXIT SEPARATION

SEPARATION LEGEND

HOURLY RATING
0 = 0 HOUR
5 = 1/2 HOUR
1 = 1 HOUR
2 = 2 HOUR
3 = 3 HOUR
4 = 4 HOUR

FIRE AND SMOKE SEPARATION TYPES
- C = CORRIDOR (CYAN)
- EW = EXTERIOR WALL (PURPLE)
- FW = FIRE WALL (BLUE)
- FB = FIRE BARRIER (RED)
- FP = FIRE PARTITION (MAGENTA)
- SP = SMOKE PARTITION (GREEN)
- SB = SMOKE BARRIER (GREEN)
- VS = VERTICAL SHAFT (ORANGE)
- VX = VERTICAL EXIT ENCLOSURE (ORANGE)
- XP = EXIT PASSAGEWAY (YELLOW)

N
TRUE
1 CP1.1
CODE PLAN
SCALE: 1" = 20'-0"

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12/31/2025

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39-25156-00

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CP1.1

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2012 TAS Standards for Accessible Design

for Public Accomodations and Commercial Facilities: Title III

CHAPTER 3: BUILDING BLOCKS

301 General

301.1 Scope. The provisions of Chapter 3 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

302 Floor or Ground Surfaces

302.1 General. Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302.

EXCEPTIONS:
1. Within animal containment areas, floor and ground surfaces shall not be required to be stable, firm, and slip resistant.
2. Areas of sport activity shall not be required to comply with 302.

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed edge. Carpet edge trim shall comply with 303.

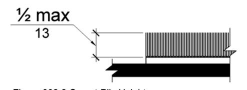

Figure 302.2 Carpet Pile Height

302.3 Openings. Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.

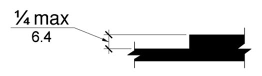

Figure 303.2 Vertical Change in Level

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

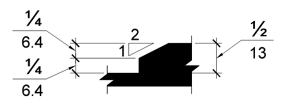

Figure 303.3 Beveled Change in Level

303.4 Ramps. Changes in level greater than 1/2 inch (13 mm) high shall be ramped, and shall comply with 405 or 406.

304 Turning Space

304.1 General. Turning space shall comply with 304.

304.2 Floor or Ground Surfaces. Floor or ground surfaces of a turning space shall comply with 302. Changes in level are not permitted.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

304.3 Size. Turning space shall comply with 304.3.1 or 304.3.2.

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

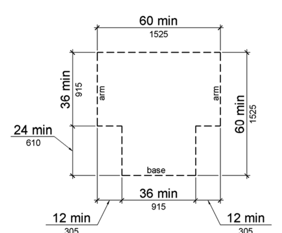

Figure 304.3.2 T-Shaped Turning Space

304.4 Door Swing. Doors shall be permitted to swing into turning spaces.

305 Clear Floor or Ground Space

305.1 General. Clear floor or ground space shall comply with 305.

305.2 Floor or Ground Surfaces. Floor or ground surfaces of a clear floor or ground space shall comply with 302. Changes in level are not permitted.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

305.3 Size. The clear floor or ground space shall be 30 inches (760 mm) minimum by 48 inches (1220 mm) minimum.

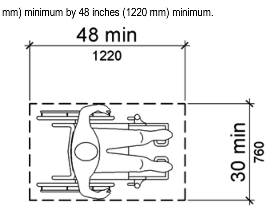

Figure 305.3 Clear Floor or Ground Space

305.4 Knee and Toe Clearance. Unless otherwise specified, clear floor or ground space shall be permitted to include knee and toe clearance complying with 306.

305.5 Position. Unless otherwise specified, clear floor or ground space shall be positioned for either forward or parallel approach to an element.

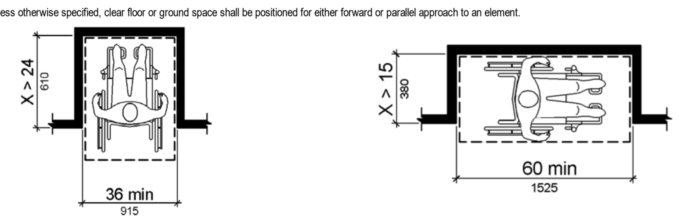

Figure 305.5 Position of Clear Floor or Ground Space

305.6 Approach. One full unobstructed side of the clear floor or ground space shall adjoin an accessible route or adjoin another clear floor or ground space.

305.7 Maneuvering Clearance. Where a clear floor or ground space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearance shall be provided in accordance with 305.7.1 and 305.7.2.

305.7.1 Forward Approach. Alcoves shall be 36 inches (915 mm)wide minimum where the depth exceeds 24 inches (610 mm).

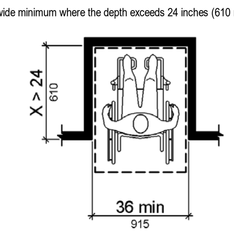

Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

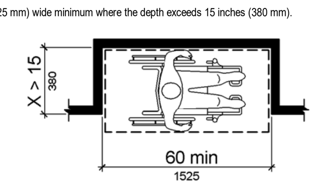

Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

306 Knee and Toe Clearance

306.1 General. Where space beneath an element is included as part of clear floor or ground space or turning space, the space shall comply with 306. Additional space shall not be prohibited beneath an element but shall not be considered as part of the clear floor or ground space or turning space.

306.2 Toe Clearance.

306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

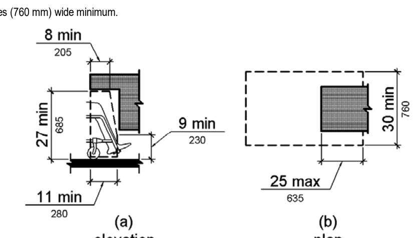

Figure 306.2 Toe Clearance

306.3 Knee Clearance.

306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.

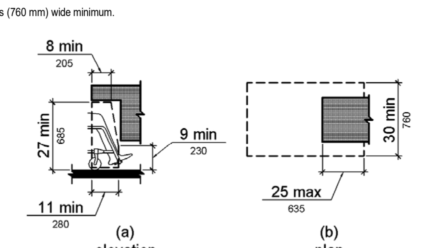

Figure 306.3 Knee Clearance

307 Protruding Objects

307.1 General. Protruding objects shall comply with 307.

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

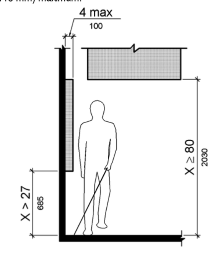

Figure 307.2 Limits of Protruding Objects

307.3 Post-Mounted Objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum above the finish floor or ground.

EXCEPTION: The sloping portions of handrails serving stairs and ramps shall not be required to comply with 307.3.

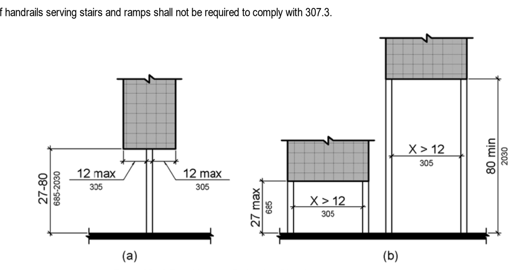

Figure 307.3 Post-Mounted Protruding Objects

307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

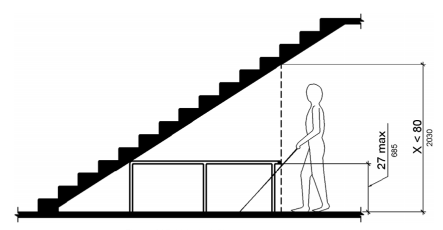

Figure 307.4 Vertical Clearance

307.5 Required Clear Width. Protruding objects shall not reduce the clear width required for accessible routes.

308 Reach Ranges

308.1 General. Reach ranges shall comply with 308.

Children's Reach Ranges			
Forward or Side Reach	Ages 3 and 4	Ages 5 through 8	Ages 9 through 12
High (maximum)	36 in (915 mm)	40 in (1015 mm)	44 in (1120 mm)
Low (minimum)	20 in (510 mm)	18 in (455 mm)	16 in (405 mm)

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

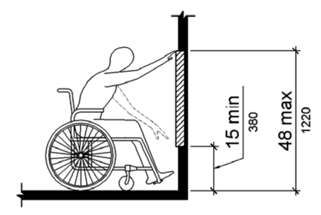

Figure 308.2.1 Unobstructed Forward Reach

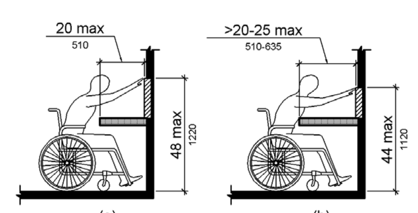

Figure 308.2.2 Obstructed High Forward Reach

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

EXCEPTIONS:
1. An obstruction shall be permitted between the clear floor or ground space and the element where the depth of the obstruction is 10 inches (255 mm) maximum.
2. Operable parts of fuel dispensers shall be permitted to be 54 inches (1370 mm) maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs.

308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

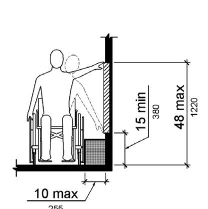

Figure 308.3.1 Unobstructed Side Reach

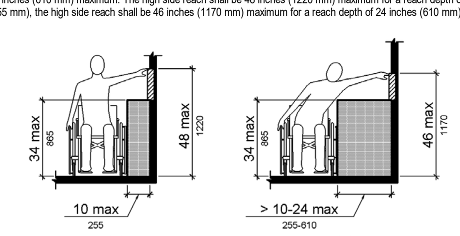

Figure 308.3.2 Obstructed High Side Reach

CHAPTER 4: ACCESSIBLE ROUTES

401 General

401.1 Scope. The provisions of Chapter 4 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

402 Accessible Routes

402.1 General. Accessible routes shall comply with 402.

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

403 Walking Surfaces

403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

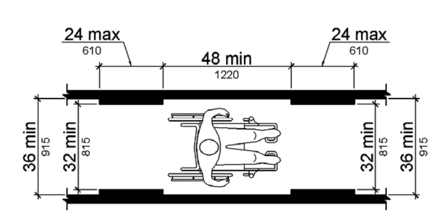

Figure 403.5.1 Clear Width of an Accessible Route

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

EXCEPTION: Where the clear width at the turn is 60 inches (1525 mm) minimum compliance with 403.5.2 shall not be required.

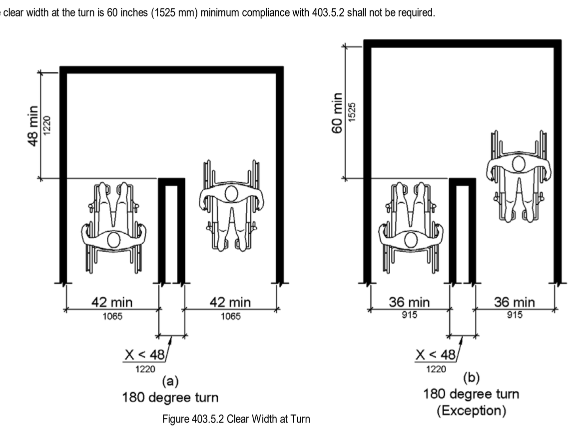

Figure 403.5.2 Clear Width at Turn

403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum. Passing spaces shall be either: a space 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum; or, an intersection of two walking surfaces providing a T-shaped space complying with 304.3.2 where the base and arms of the T-shaped space extend 48 inches (1220 mm) minimum beyond the intersection.

403.6 Handrails. Where handrails are provided along walking surfaces with running slopes not steeper than 1:20 they shall comply with 505.

404 Doors, Doorways, and Gates

404.1 General. Doors, doorways, and gates that are part of an accessible route shall comply with 404.

EXCEPTION: Doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with 404.2.7, 404.2.8, 404.2.9, 404.3.2 and 404.3.4 through 404.3.7.

404.2 Manual Doors, Doorways, and Manual Gates. Manual doors and doorways and manual gates intended for user passage shall comply with 404.2.

404.2.1 Revolving Doors, Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

404.2.2 Double-Leaf Doors and Gates. At least one of the active leaves of doorways with two leaves shall comply with 404.2.3 and 404.2.4.

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

EXCEPTIONS:
1. In alterations, a projection of 5/8 inch (16 mm) maximum into the required clear width shall be permitted for the latch side stop.
2. Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

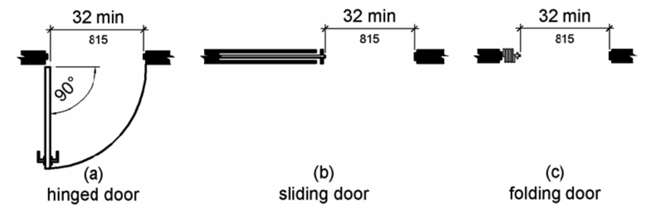

Figure 404.2.3 Clear Width of Doorways

404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

EXCEPTION: Entry doors to hospital patient rooms shall not be required to provide the clearance beyond the latch side of the door.

404.2.4.1 Swinging Doors and Gates. Swinging doors and gates shall have maneuvering clearances complying with Table 404.2.4.1.

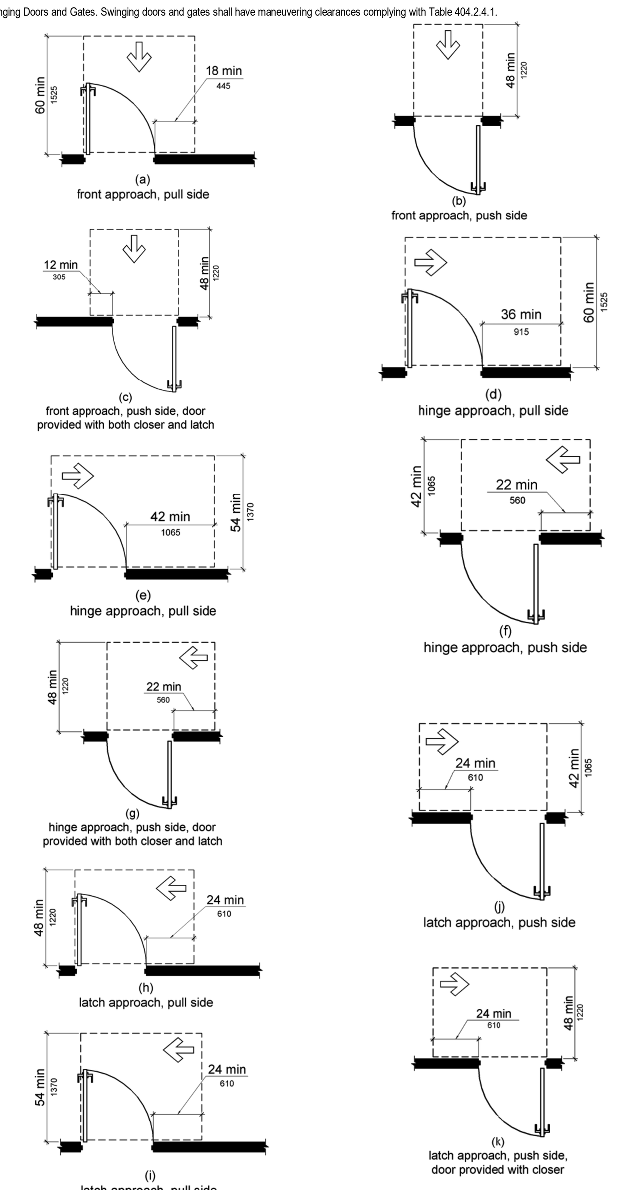

Figure 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates

404.2.4.2 Doorways without Doors or Gates, Sliding Doors, and Folding Doors. Doorways less than 36 inches (915 mm) wide without doors or gates, sliding doors, or folding doors shall have maneuvering clearances complying with Table 404.2.4.2.

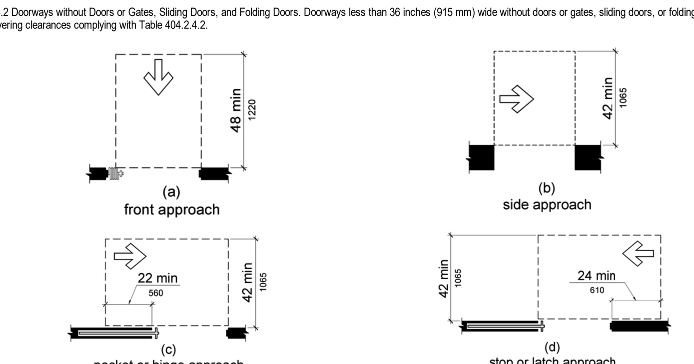

Figure 404.2.4.2 Maneuvering Clearances at Doorways Without Doors, Sliding Doors, Gates, and Folding Doors

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

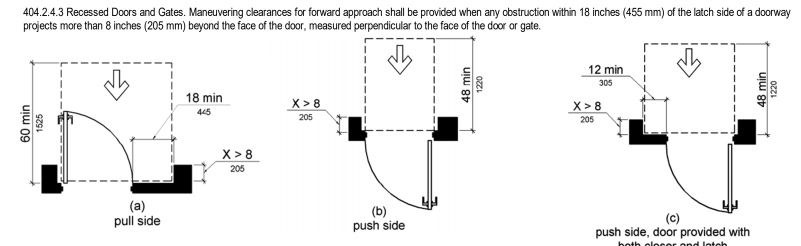

Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

404.2.4.4 Floor or Ground Surface. Floor or ground surface within required maneuvering clearances shall comply with 302. Changes in level are not permitted.

EXCEPTIONS:
1. Slopes not steeper than 1:48 shall be permitted.
2. Changes in level at thresholds complying with 404.2.5 shall be permitted.

404.2.5 Thresholds. Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303.

EXCEPTION: Existing or altered thresholds 3/4 inch (19 mm) high maximum that have a beveled edge on each side with a slope not steeper than 1:2 shall not be required to comply with 404.2.5.

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

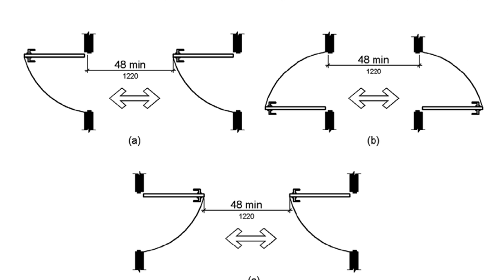

Figure 404.2.6 Doors in Series and Gates in Series

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

405 Ramps

405.1 General. Ramps on accessible routes shall comply with 405.

EXCEPTION: In assembly areas, aisle ramps adjacent to seating and not serving elements required to be on an accessible route shall not be required to comply with 405.

405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.

EXCEPTION: In existing sites, buildings, and facilities, ramps shall be permitted to have running slopes steeper than 1:12 complying with Table 405.2 where such slopes are necessary due to space limitations.

Table 405.2 Maximum Ramp Slope and Rise for Existing Sites, Buildings, and Facilities

Slope (A slope steeper than 1:8 is prohibited)	Maximum Rise
Steeper than 1:10 but not steeper than 1:8	3 inches (75 mm)
Steeper than 1:12 but not steeper than 1:10	6 inches (150 mm)

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

405.4 Floor or Ground Surfaces. Floor or ground surfaces of ramp runs shall comply with 302. Changes in level other than the running slope and cross slope are not permitted on ramp runs.

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.

EXCEPTION: Within employee work areas, the required clear width of ramps that are a part of common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum.

405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run. Landings shall comply with 405.7.

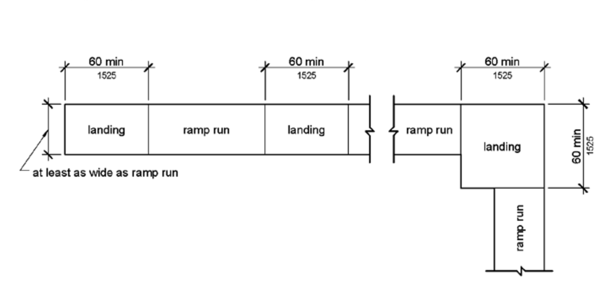

Figure 405.7 Ramp Landings

405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 505.

405.9.2 Curb or Barrier. A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground surface.

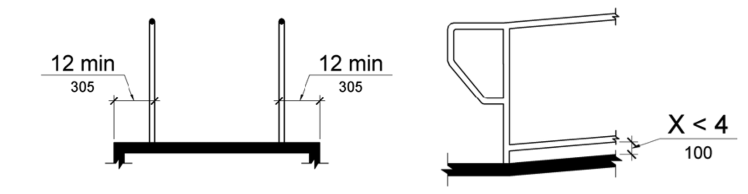

Figure 405.9.1 Extended Floor or Ground Surface Edge Protection

Figure 405.9.2 Curb or Barrier Edge Protection

405.10 Wet Conditions. Landings subject to wet conditions shall be designed to prevent the accumulation of water.

406 Curb Ramps

406.1 General. Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.

406.2 Counter Slope. Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

406.3 Sides of Curb Ramps. Where provided, curb ramp flares shall not be steeper than 1:10.

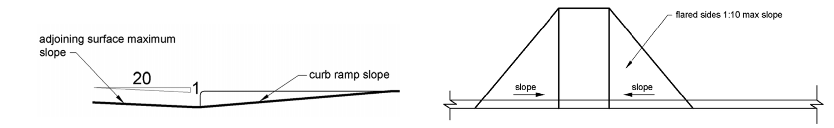

Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps

Figure 406.3 Sides of Curb Ramps

406.4 Landings. Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36 inches (915 mm) minimum. The landing clear width shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing.

EXCEPTION: In alterations, where there is no landing at the top of curb ramps, curb ramp flares shall be provided and shall not be steeper than 1:12.

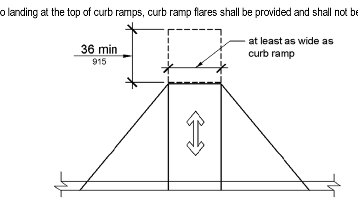

Figure 406.4 Landings at the Top of Curb Ramps

406.5 Location. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.

406.6 Diagonal Curb Ramps. Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have a clear space 48 inches (1220 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1220 mm) minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches (610 mm) long minimum located on each side of the curb ramp and within the marked crossing.

407.2 Elevator Landing Requirements. Elevator landings shall comply with 407.2.

407.2.1 Call Controls. Where elevator call buttons or keypads are provided, they shall comply with 407.2.1 and 309.4. Call buttons shall be raised or flush.

EXCEPTION: Existing elevators shall be permitted to have recessed call buttons.

407.2.1.1 Height. Call buttons and keypads shall be located within one of the reach ranges specified in 308, measured to the centerline of the highest operable part.

EXCEPTION: Existing call buttons and existing keypads shall be permitted to be located at 54 inches (1370 mm) maximum above the finish floor, measured to the centerline of the highest operable part.

407.2.1.2 Size. Call buttons shall be 3/4 inch (19 mm) minimum in the smallest dimension.

EXCEPTION: Existing elevator call buttons shall not be required to comply with 407.2.1.2.

407.2.1.3 Clear Floor or Ground Space. A clear floor or ground space complying with 305 shall be provided at call controls.

407.2.2 Hall Signals. Hall signals, including in-car signals, shall comply with 407.2.2.

407.2.2.1 Visible and Audible Signals. A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel. Where in-car signals are provided, they shall be visible from the floor area adjacent to the hall call buttons.

EXCEPTIONS:
1. Visible and audible signals shall not be required at each destination-oriented elevator where a visible and audible signal complying with 407.2.2 is provided indicating the elevator car designation information.
2. In existing elevators, a signal indicating the direction of car travel shall not be required.

407.2.2.2 Visible Signals. Visible signal fixtures shall be centered at 72 inches (1830 mm) minimum above the finish floor or ground. The visible signal elements shall be 2 1/2 inches (64 mm) minimum measured along the vertical centerline of the element. Signals shall be visible from the floor area adjacent to the hall call button.

EXCEPTIONS:
1. Destination-oriented elevators shall be permitted to have signals visible from the floor area adjacent to the hoistway entrance.
2. Existing elevators shall not be required to comply with 407.2.2.2.

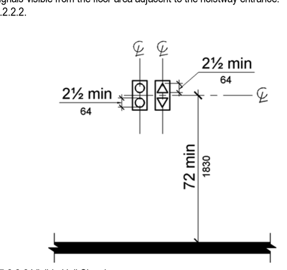

Figure 407.2.2.2 Visible Hall Signals

407.2.3 Hoistway Signs. Signs at elevator hoistways shall comply with 407.2.3.

407.2.3.1 Floor Designation. Floor designations complying with 703.2 and 703.4.1 shall be provided on both jambs of elevator hoistway entrances. Floor designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high minimum. A tactile star shall be provided on both jambs at the main entry level.

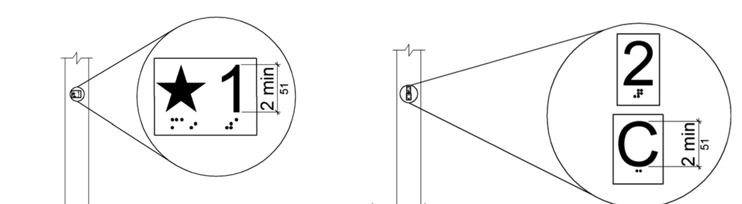

Figure 407.2.3.1 Floor Designations on Jambs of Elevator Hoistway Entrances

Figure 407.2.3.2 Car Designations on Jambs of Destination-Oriented Elevator Hoistway Entrances

CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

604 Water Closets and Toilet Compartments

604.1 General. Water closets and toilet compartments shall comply with 604.2 through 604.8.

EXCEPTION: Water closets and toilet compartments for children's use shall be permitted to comply with 604.9.

604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

604.3 Clearance. Clearances around water closets and in toilet compartments shall comply with 604.3.

604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.

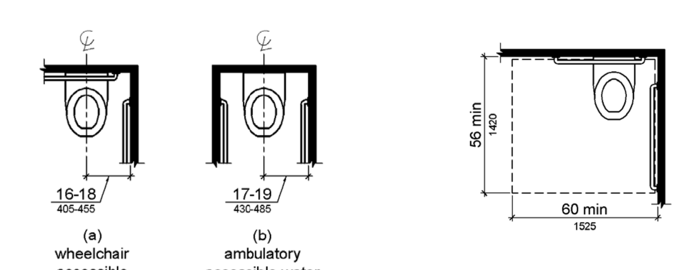

Figure 604.2 Water Closet Location

Figure 604.3.1 Size of Clearance at Water Closets

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

EXCEPTIONS:
1. A water closet in a toilet room for a single occupant accessed only through a private office and not for common use or public use shall not be required to comply with 604.4.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

EXCEPTIONS:
1. Grab bars shall not be required to be installed in a toilet room for a single occupant accessed only through a private office and not for common use or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall.

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

EXCEPTIONS:
1. The rear grab bar shall be permitted to be 24 inches (610 mm) long minimum, centered on the water closet, where wall space does not permit a length of 36 inches (915 mm) minimum due to the location of a recessed fixture adjacent to the water closet.
2. Where an administrative authority requires flush controls for flush valves to be located in a position that conflicts with the location of the rear grab bar, then the rear grab bar shall be permitted to be split or shifted to the open side of the toilet area.

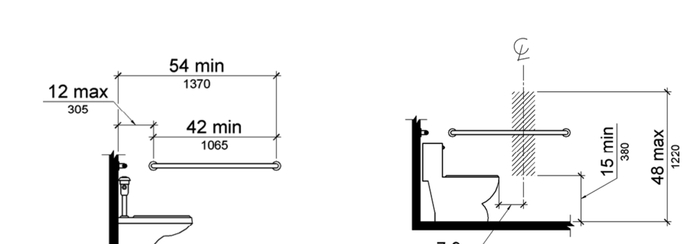

Figure 604.5.1 Side Wall Grab Bar at Water Closets

Figure 604.5.2 Rear Wall Grab Bar at Water Closets

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with 604.8.1.

604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

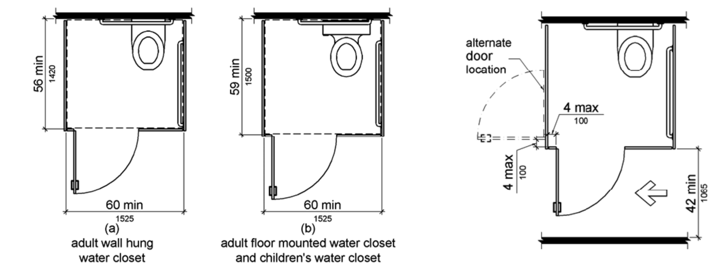

Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

Figure 604.8.1.2 Wheelchair Accessible Toilet Compartment Doors

604.8.1.4 Toe Clearance. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.

EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm) deep.

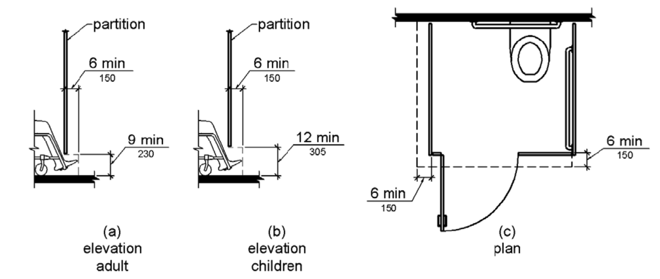

Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply with 604.8.2.

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum.

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.2.3 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

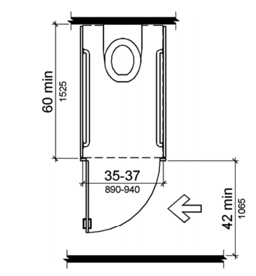

Figure 604.8.2 Ambulatory Accessible Toilet Compartment

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604.9 Water Closets and Toilet Compartments for Children's Use. Water closets and toilet compartments for children's use shall comply with 604.9.

605 Urinals

605.1 General. Urinals shall comply with 605.

605.2 Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

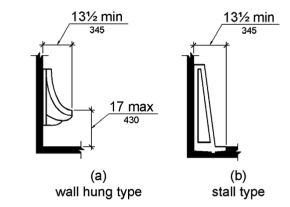

Figure 605.2 Height and Depth of Urinals

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

EXCEPTION: Braille provided on elevator car controls shall be separated 3/16 inch (4.8 mm) minimum and shall be located either directly below or adjacent to the corresponding raised characters or symbols.

703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

EXCEPTION: Tactile characters for elevator car controls shall not be required to comply with 703.4.1.

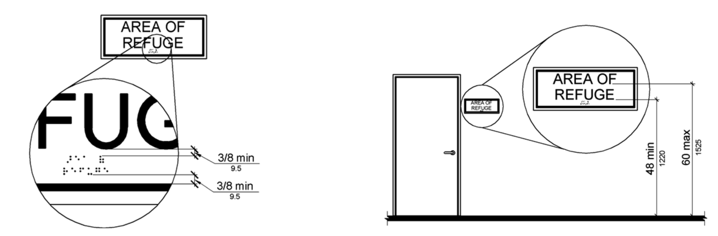

Figure 703.3.2 Position of Braille

Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

EXCEPTION: Signs with tactile characters shall be permitted on the push side of doors with closers and without hold-open devices.

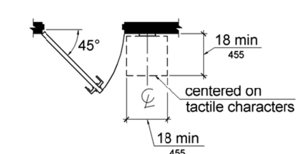

Figure 703.4.2 Location of Tactile Signs at Doors

CHAPTER 8: SPECIAL ROOMS, SPACES AND ELEMENTS

804 Kitchens and Kitchenettes

804.1 General. Kitchens and kitchenettes shall comply with 804.

804.2 Clearance. Where a pass through kitchen is provided, clearances shall comply with 804.2.1. Where a U-shaped kitchen is provided, clearances shall comply with 804.2.2.

EXCEPTION: Spaces that do not provide a cooktop or conventional range shall not be required to comply with 804.2.

Advisory 804.2 Clearance. Clearances are measured from the furthest projecting face of all opposing base cabinets, counter tops, appliances, or walls, excluding hardware.

804.2.1 Pass Through Kitchen. In pass through kitchens where counters, appliances or cabinets are on two opposing sides, or where counters, appliances or cabinets are opposite a parallel wall, clearance between all opposing base cabinets, counter tops, appliances, or walls within kitchen work areas shall be 40 inches (1015 mm) minimum. Pass through kitchens shall have two entries.

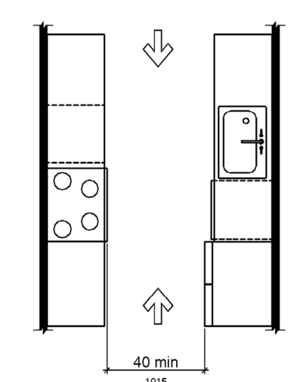

Figure 804.2.1 Pass Through Kitchens

804.2.2 U-Shaped. In U-shaped kitchens enclosed on three contiguous sides, clearance between all opposing base cabinets, counter tops, appliances, or walls within kitchen work areas shall be 60 inches (1525 mm) minimum.

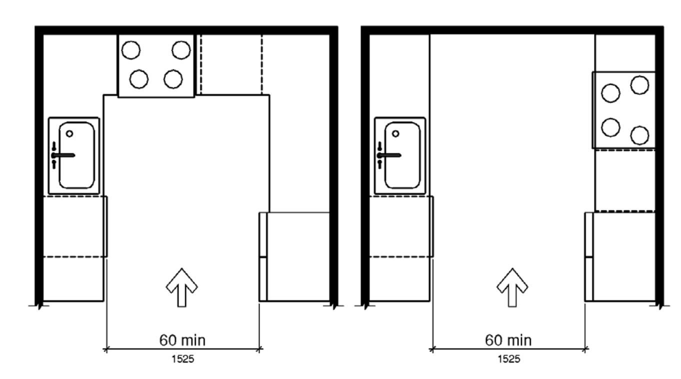

Figure 804.2.2 U-Shaped Kitchens

DLRGROUP

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REGISTERED ARCHITECT
ABRAM SUSTAITA
23632
STATE OF TEXAS
10/31/2025

BOONE ELEMENTARY SCHOOL

ALIEF INDEPENDENT SCHOOL DISTRICT

11400 BISSONNET STREET
HOUSTON, TX 77099

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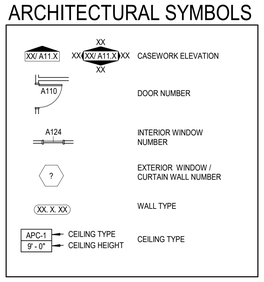
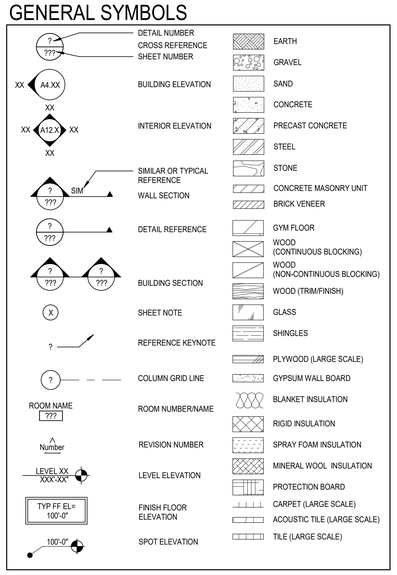
ARCHITECTURAL ABBREVIATIONS

A/E	ARCHITECT/ENGINEER
AB	AIR BARRIER
ABS	ASBESTOS
ACC	ADA ACCESSIBLE
ACR	ACRYLIC
ACT	ACOUSTIC CEILING TILE
AD	ACCESS DOOR
ADJ	ADJUSTABLE
ADJT	ADJACENT
ADMIN	ADMINISTRATION
AEC	AUTOMATED EXTERNAL DEFIBRILLATORS
AL	ALUMINUM
ALUM	ALUMINUM
AP	ACCESS PANEL
APC	ACOUSTIC PANEL CEILING
ASPH	ASPHALT
AUTO	AUTOMATIC
AVG	AVERAGE
AWP	ACOUSTIC WALL PANEL
B.O.	BOTTOM OF
BCS	BABY CHANGING STATION
BD	BOARD
BLK	BLOCK
BLKG	BLOCKING
BLKHD	BULKHEAD
BM(S)	BEAM(S)
BOT	BOTTOM
BRDG	BRIDGING
BRG	BEARING
BRKT	BRACKET
BT	BATHTUB
BTWN	BETWEEN
CAB	CABINET
CBD	CHALKBOARD
CER	CERAMIC
CF	CUBIC FEET
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFMF	COLD-FORMED METAL FRAMING
CG	CLEAR FLOAT GLASS
CGD	CORNER GUARD
CI	CAST IRON
CIG	CLEAR INSULATING GLASS
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CJA	CONTROL JOINT ABOVE
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COM	COMMON
COMB	COMBINATION
COMM	COMMUNICATIONS
COMPR	COMPRESSIBLE
CONF	CONFERENCE
CONFIG	CONFIGURATION
CORR	CORRIDOR
CP	COVER PLATE
CPT	CARPET
CR	CHAIR RAIL
CS	COUNTERSINK
CSTJ	CONSTRUCTION JOINT
CSWK	CASEWORK
CT	CERAMIC TILE
CTG	CLEAR TEMPERED FLOAT GLASS
CTIG	CLEAR TEMPERED INSULATING GLASS
CU	COPPER
CU	COMBINATION UNIT
CV	CONDOM VENDOR
CY	CUBIC YARD
CYL	CYLINDER
DB	DECIBEL
DBL	DOUBLE
DC	DUST COLLECTOR
DEPR	DEPRESS(ION)(ED)
DEPT	DEPARTMENT
DET	DETENTION
DF	DRINKING FOUNTAIN
DG	DOOR GRILLE
DIAG	DIAGONAL
DPFG	DAMPROOFING
DR	DOOR
DSN	DOWNSPOUT NOZZLE
DW	DISHWASHER
DWL(S)	DOWEL(S)
DWR	DRAWER
EB	EXPANSION BOLT
EE	EACH END
EEW	EMERGENCY EYE WASH
EEWS	EMERGENCY EYE WASH SHOWER
EFF	EFFICIENCY
EJ	EXPANSION JOINT
ELAS	ELASTOMERIC
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENTR	ENTRANCE
ERF	EPOXY RESIN FLOORING
EUI	ENERGY USE INTENSITY
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXP	EXPANSION
EXP	EXPOSED
F	FABRIC
F.O.	FACE OF
FAB	FABRICATE(D)
FB	FACE BRICK
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIG	FIGURE
FIX	FIXTURE
FLASH	FLASHING
FLEX	FLEXIBLE
FLG	FLOORING
FLM	FULL LENGTH MIRROR
FLUOR	FLUORESCENT
FO	FINISH OPENING
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FP	FIREPROOFING
FPG	FIRE-PROTECTIVE GLASS
FR	FIRE RESISTANT
FRG	FIRE-RESISTIVE GLASS
FRP	FIBERGLASS REINFORCED PANEL
FRT	FIRE RESISTANCE TREATED
FS	FLOOR SINK
FSS	FOLDING SHOWER SEAT
FTG	FOOTING
FVC	FIRE VALVE CABINET
FWC	FABRIC WALL COVERING
G	GROUT
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GD	GARBAGE DISPOSAL
GEN	GENERAL
GFA	GROSS FLOOR AREA
GL	GLUE LAMINATED
GL	GLASS
GMP	GUARANTEED MAXIMUM PRICE
GR	GUARD RAIL
GR	GRADE
GRS	GALVANIZED RIGID STEEL
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HC	HOLLOW CORE
HD	HAND DRYER
HDF	HIGH DENSITY FIBERBOARD
HDR	HEADER
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HR	HOUR
HR	HANDRAIL
HS	HARDWARE SET
HSS	HOLLOW STRUCTURAL SHAPE
HVAC	HEATING VENTILATING AND AIR CONDITIONING
IAW	IN ACCORDANCE WITH
ID	INSIDE DIAMETER
IF	INSIDE FACE
IIP	INSULATED INFILL PANEL GLASS
IJ	ISOLATION JOINT
IJS	IN JOIST SPACE
INC	INCLUDE(ING)
INSUL	INSULATION
JAN	JANITOR
JBE	JOIST BEARING ELEVATION
JBX	JUNCTION BOX
JCT	JUNCTION
JFB	JOINT FILLER BOARD
JST	JOIST
JT	JOINT
KCJ	KEYED CONSTRUCTION JOINT
KD	KNOCKDOWN
KH	KITCHEN HOOD
KIT	KITCHEN
L	ANGLE
LAB	LABORATORY
LAM	LAMINATED
LAV	LAVATORY
LBR	LUMBER
LDG	LOADING
LF	LINEAR FOOT
LG	LENGTH (LONG)
LG	LAMINATED GLASS
LIN	LINEAR
LINO	LINOLEUM
LKR	LOCKER
LOC	LOCATION
LONG	LONGITUDINAL
LSC	LIFE SAFETY CODE
LTG	LIGHTING
LV	LOUVER
LVT	LUXURY VINYL TILE
MAG	MAGNETIC
MAINT	MAINTENANCE
MAN	MANUAL
MAS	MASONRY
MATL	MATERIAL
MB	MOP BASIN
MBD	MARKER BOARD
MBH	MOP/BROOM HOLDER
MC	MEDICINE CABINET
MEMB	MEMBRANE
MH	MANHOLE
MR/S	MIRROR WITH SHELF
MTD	MOUNTED
MTG	MOUNTING
MUL	MULLION
NC	NOISE CRITERIA
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NOM	NOMINAL
O to O	OUT TO OUT
OA	OVERALL
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OPPOSITE HAND
OPG(S)	OPENING(S)
OSHA	OPERATIONAL SAFETY AND HEALTH ADMINISTRATION
OTB	OPEN TO BELOW
OVFL	OVERFLOW
P	PAINT
PAN B	PANIC BOLT
PB	PARTICLE BOARD
PC	PRECAST CONCRETE
PCD	PAPER CUP DISPENSER
PCT	PORCELAIN CERAMIC TILE
PD	PANIC DEVICE
PERF	PERFORATED
PERP	PERPENDICULAR
PG	PATTERN GLASS
PIC	PORTABLE INSTRUMENT CONNECTION
PIG	PATTERN INSULATING GLASS
PL	PLATE
PL	PROPERTY LINE
PL	PLASTIC LAMINATE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PR	PAIR
PREFAB	PREFABRICATED
PROJ	PROJECT(OR) (ION)
PS	PROJECTION SCREEN
PT	POINT
PT	POINT OF TANGENCY
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PWL	SOUND POWER LEVEL
QGV	QUAD GAS VALVE
QT	QUARRY TILE
QTR RND	QUARTER ROUND
R	RISER
RAD	RADIUS
RB	RUBBER BASE
RC	REMOTE CONTROL
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REFL	REFLECTED
REM	REMOVABLE
RESIL	RESILIENT
RF	RESILIENT FLOORING
RF	RUBBER FLOOR
RFM	RECESSED FLOOR MAT
RH	ROBE HOOK
RI&C	ROUGH IN AND CONNECT
S	SINK
SAT	SPRAYED ACOUSTIC TREATMENT
SAW	SOUND ABSORBING WALL UNITS
SB	SPLASH BLOCK
SC	SOLID CORE
SC	SHOWER CURTAIN
SCD	SEAT COVER DISPENSER
SCH	SHOWER CURTAIN HOOK
SCR	SHOWER CURTAIN ROD
SCT	STRUCTURAL CLAY TILE
SD	SOAP DISPENSER
SECY	SECRETARY
SF	SQUARE FEET
SG	SPANDREL GLASS
SG	SPECIALTY GLASS
SGL	SINGLE
SGV	SINGLE GAS VALVE
SH	SHOWER
SHM	SECURITY HOLLOW METAL
SLNT	SEALANT
SM	SHEET METAL
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SO	SENSOR OPERATED
SPL	SOUND PRESSURE LEVEL
SQ	SQUARE
SR	SURFACE MOUNTED ELECTRICAL RACEWAY
SS	SOLID SURFACE
SSA	STORM SHELTER AREA
SSM	SOLID SURFACE
SSS	STAINLESS STEEL SHELF
SST	STAINLESS STEEL
ST	STONE
ST	STAIR
STAG'D	STAGGERED
STC	SOUND TRANSMISSION CLASS
STGR	STRINGER
SUBFL	SUBFLOOR
SUL	SULPHUR
SURF	SURFACE
SUSP	SUSPENDED
SVF	SHEET VINYL FLOORING
SVF	SERVICE FIXTURE
SVG	SERVICE FIXTURE GROUP
T	TREAD
T&G	TONGUE AND GROOVE
T.O.	TOP OF
TAN	TANGENT
TB	TOWEL BAR
TBD	TACK BOARD
TCP	TOILET COMPARTMENT PARTITION
TERR	TERRAZZO
TFG	TINTED FLOAT GLASS
TG	TEMPERED GLASS
TH	THRESHOLD
THK	THICK(NESS)
TI	TENANT IMPROVEMENT
TIG	TINTED INSULATING GLASS
TMR	TILT MIRROR UNIT
TOIL	TOILET
TOP	TOP OF PAVING
TRANS	TRANSVERSE
TT	TERRAZZO TILE
TTD	TOILET TISSUE DISPENSER
TTG	TINTED TEMPERED FLOAT GLASS
TTIG	TINTED TEMPERED INSULATING GLASS
TW	TACK WALL
UL	UNDERWRITERS LABORATORIES
UR	URINAL
US	UTILITY SHELF
UTIL	UTILITY
VB	VAPOR BARRIER
VB	VINYL BASE
VCB	VENTED COVE BASE
VF	VINYL FLOOR
VOC	VOLITILE ORGANIC COMPOUND
VOL	VOLUME
VP	VENEER PLASTER
VT	VINYL TILE
VWC	VINYL WALL COVERING
W	WIDE
WB	WALL BASE
WC	WATER CLOSET
WC	WALL COVERING
WCL	WATER CLOSET/LAVATORY COMBINATION
WD	WOOD
WDF	WOOD FLOORING
WDW	WINDOW
WG	POLISHED WIRE GLASS
WI	WROUGHT IRON
WOM	WALK OFF MAT
WR	WASTE RECEPTACLE
WRB	WEATHER RESISTANT BARRIER
WW	WARM WHITE
WWF	WELDED WIRE FABRIC
YD	YARD

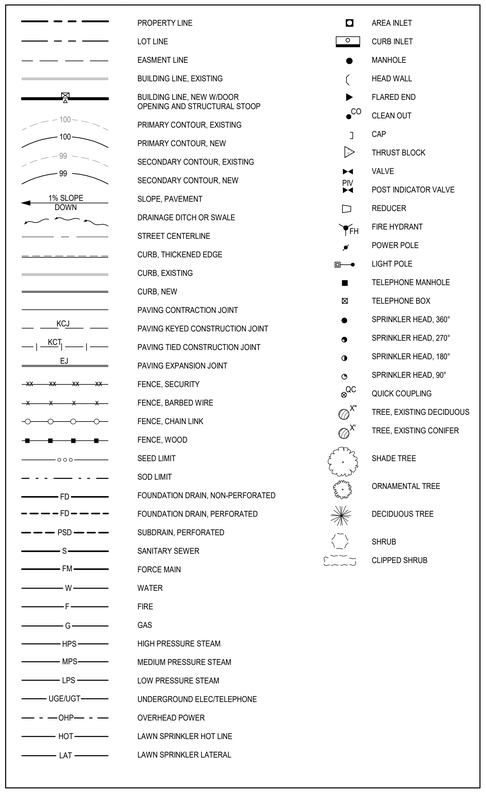
ARCHITECTURAL SYMBOLS



GENERAL SYMBOLS



SITE SYMBOLS



GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX.X.XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS. I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

GENERAL NOTES

A. GENERAL NOTES APPLY TO ALL SHEETS.
B. DIMENSIONS ARE ACTUAL AND ARE TO FACE OF STUDS, FACE OF CONCRETE WALLS, FACE OF CMU WALLS, FACE OF FRAMES, OR CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE.
C. THE OWNER SHALL FURNISH AND INSTALL THE FOLLOWING ITEMS: 1. SOAP DISPENSERS
D. INCLUDE ALL OWNER-FURNISHED AND INSTALLED ITEMS AND OWNER-FURNISHED AND CONTRACTOR-INSTALLED ITEMS IN THE CONSTRUCTION SCHEDULE, AND SHALL COORDINATE WITH THE OWNER TO ACCOMMODATE THESE ITEMS.
E. COORDINATE ALL MECHANICAL CHASE SIZES WITH THE MECHANICAL CONTRACTOR.
F. ARCHITECTURAL FINISH FLOOR ELEVATION IS EXISTING TO REMAIN, VIF.
G. SEE SHEET XX.X FOR LOCATION OF WALLS OF FIRE-RESISTANCE-RATED CONSTRUCTION. ALL WALLS OF FIRE-RESISTANCE-RATED CONSTRUCTION SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE.
H. ALL PENETRATIONS THROUGH WALLS SHALL BE SEALED WITH PENETRATION FIRE STOPPING MATERIAL AS REQUIRED TO ACHIEVE THE RESPECTIVE FIRE-RESISTANCE RATING AND SMOKE STOPPAGE. SEE SPECIFICATION SECTION 078413.
I. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS THE SIZE AND LOCATION OF EQUIPMENT PADS SHOWN ON PLANS.
J. FIRE-RESISTANCE-RATED ENCLOSURES AROUND ALL STEEL COLUMNS SHALL BE CONTINUOUS FROM FLOOR TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE FOR EACH LEVEL.
K. CONSTRUCTION DOCUMENTS ARE COMPLEMENTARY. SEE DRAWING FOR QUANTITIES AND LOCATION OF WORK. SEE SPECIFICATIONS FOR QUALITIES AND CONDITIONS OF WORK.
L. WORK: ALL ASPECTS OF THE WORK AND ITEMS NOT SPECIFICALLY MENTIONED, BUT NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED AND INDICATED IN THE CONTRACTOR'S BID.
M. SHEET NOTES ONLY APPLY TO PARTICULAR DRAWING OR SERIES OF DRAWINGS.
N. NO ASBESTOS OR PCB CONTAINING MATERIALS SHALL BE USED ON THIS PROJECT.
O. DO NOT SCALE DRAWINGS. DIMENSIONS NOTED PREVAIL. NOTIFY ARCHITECT IN CASE OF DISCREPANCY.
P. HORIZONTAL AND VERTICAL DIMENSIONS ARE MINIMUM DIMENSIONS. CLEARANCES ARE GIVEN TO FINISH SURFACES. GC TO VERIFY ALL CLEARANCES. NOTIFY ARCHITECT IN CASE OF DISCREPANCY.

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REGISTERED ARCHITECT JUSTIN A. [illegible] 23632 STATE OF TEXAS
12/31/2025

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ALIEF INDEPENDENT SCHOOL DISTRICT
1400 BISSONNET STREET
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GENERAL NOTES, ARCHITECTURAL SYMBOLS & ABBREVIATIONS

A0.1

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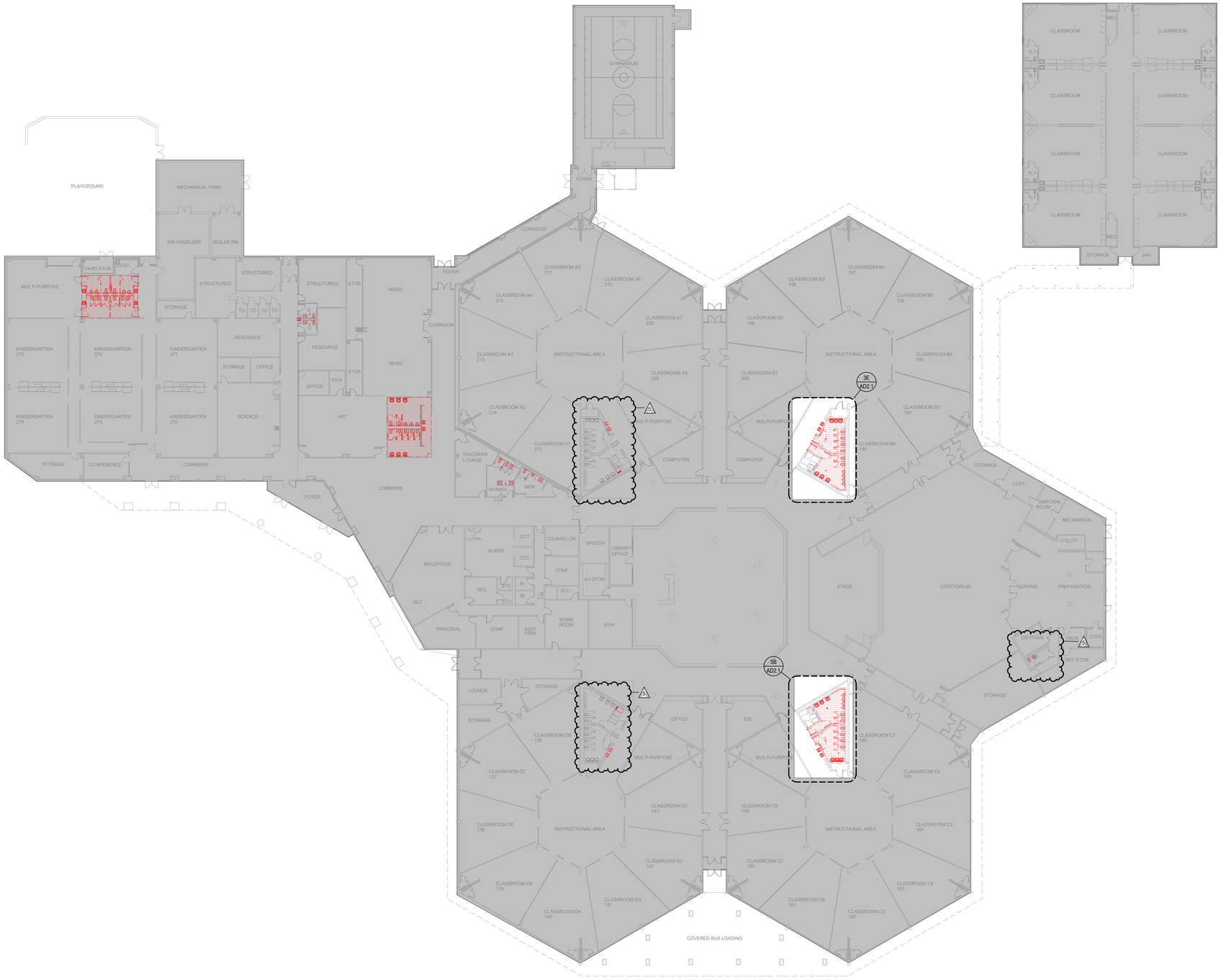

N TRUE

1 AD1.1 OVERALL - DEMOLITION PLAN

SCALE: 1" = 20'-0"

DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL ENGINEER.
P. WHERE CMU WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING CMU IN TOOTH-IN PATTERN BOTH SIDES OF DEMOLITION FOR CONTRACTOR TO TOOTH-IN NEW CMU PATCHES.
Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

DEMOLITION PLAN LEGEND

- AREA NOT IN CONTRACT (NIC)
- EXISTING PARTITION TO BE DEMOLISHED
- EXISTING PARTITION TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED
- EXISTING DOOR TO REMAIN
- ACOUSTIC CEILING SYSTEM TO BE DEMOLISHED, GRID & TILE
- 5' - 0" DIMENSION (FACE TO FACE, TYPICAL)

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REGISTERED ARCHITECT JUSTIN A. ALLEN 23632 STATE OF TEXAS 12/31/2025

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OVERALL - DEMOLITION PLAN

AD1.1

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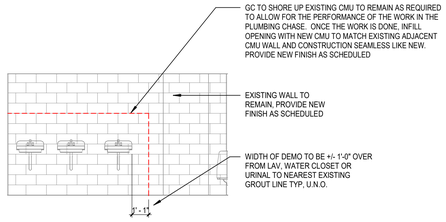
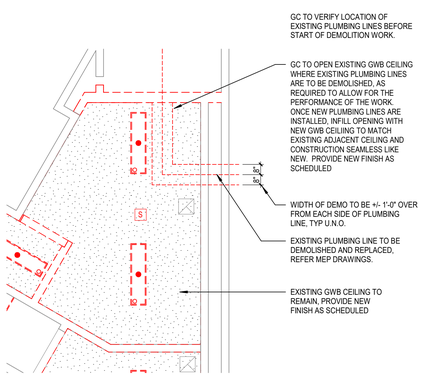


1A AD2.1 TYP ELEV AT EXISTING CMU WALL LAV, WC OR URINAL DEMO
SCALE: 1/4" = 1'-0"



2A AD2.1 TYP ENLARGED RCP @ GWB PLUMBING DEMOLITION
SCALE: 1/4" = 1'-0"

3E AD2.1 DEMOLITION PLAN - BOYS 187 / GIRLS 190
SCALE: 1/4" = 1'-0"

5B AD2.1 DEMOLITION PLAN - GIRLS 170 / BOYS 173
SCALE: 1/4" = 1'-0"

DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL ENGINEER.
P. WHERE CMU WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING CMU IN TOOTH-IN PATTERN BOTH SIDES OF DEMOLITION FOR CONTRACTOR TO TOOTH-IN NEW CMU PATCHES.
Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

SHEET NOTES

1 GC TO VERIFY EXISTING FLOOR FINISH. IF EXISTING FLOOR FINISH IS TERRAZZO, GC IS TO KEEP EXISTING FLOOR FINISH, DEEP CLEAN, POLISH AND PROTECT IT. IF EXISTING FLOOR FINISH IS NOT TERRAZZO, IT IS TO BE REMOVED AND DISCARDED.
2 EXISTING PLUMBING FIXTURES AND ACCESSORIES, REMOVE AND DISCARD. CAP UNUSED PLUMBING OUT OF SIGHT, REFER TO PLUMBING DRAWINGS.
3 EXISTING PAINTED CMU WALL, PREP WALL TO RECEIVE NEW FINISHES.
4 EXISTING TOILET PARTITION (AND OR URINAL SCREEN), REMOVE AND DISCARD.
5 EXISTING WALL, REMOVE AND DISCARD TO EXTENTS SHOWN.
6 EXISTING MILLWORK, REMOVE AND DISCARD.
7 EXISTING DRINKING FOUNTAIN, REMOVE AND DISCARD.
8 EXISTING CEILING AND LIGHT FIXTURES, REMOVE AND DISCARD, REFER 2A/AD2.1 FOR ADDITIONAL NOTES.
12 EXISTING DRINKING FOUNTAIN, REMOVE AND SALVAGE FOR RE-USE, PROTECT.

DEMOLITION PLAN LEGEND

- AREA NOT IN CONTRACT (NIC)
- EXISTING PARTITION TO BE DEMOLISHED
- EXISTING PARTITION TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED
- EXISTING DOOR TO REMAIN
- ACOUSTIC CEILING SYSTEM TO BE DEMOLISHED, GRID & TILE
- 5' - 0" DIMENSION (FACE TO FACE, TYPICAL)

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ADD 4 04-06-26 OWNER VE

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ENLARGED DEMOLITION PLANS

AD2.1

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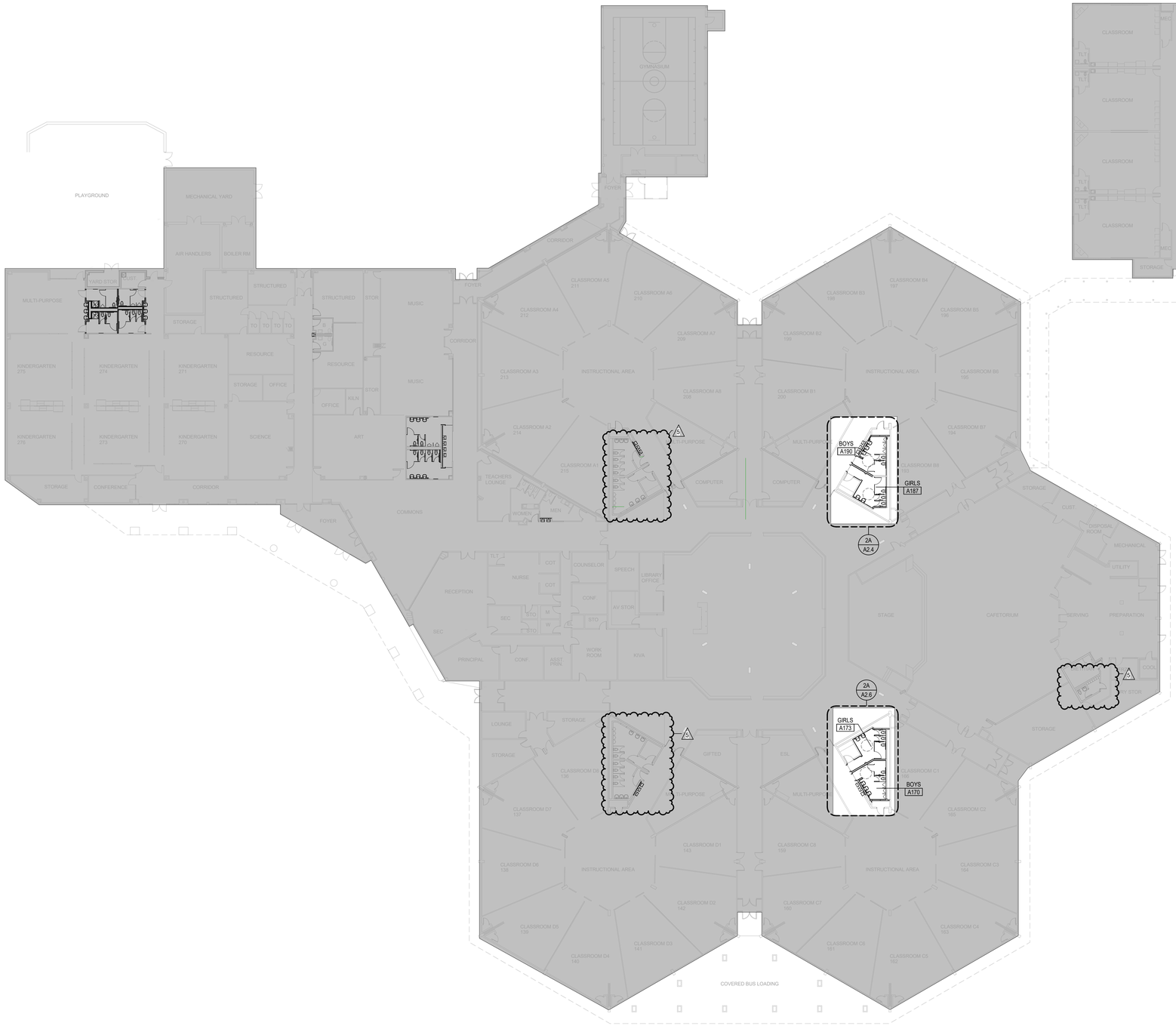

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1 A1.1

OVERALL - FLOOR PLAN

SCALE: 1" = 20'-0"

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX.X.XX) THUS: SEE SHEET A6.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS. I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

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REGISTERED ARCHITECT
JUSTIN ABRAM
23632
STATE OF TEXAS
12/31/2025

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OVERALL - FLOOR PLAN

A1.1

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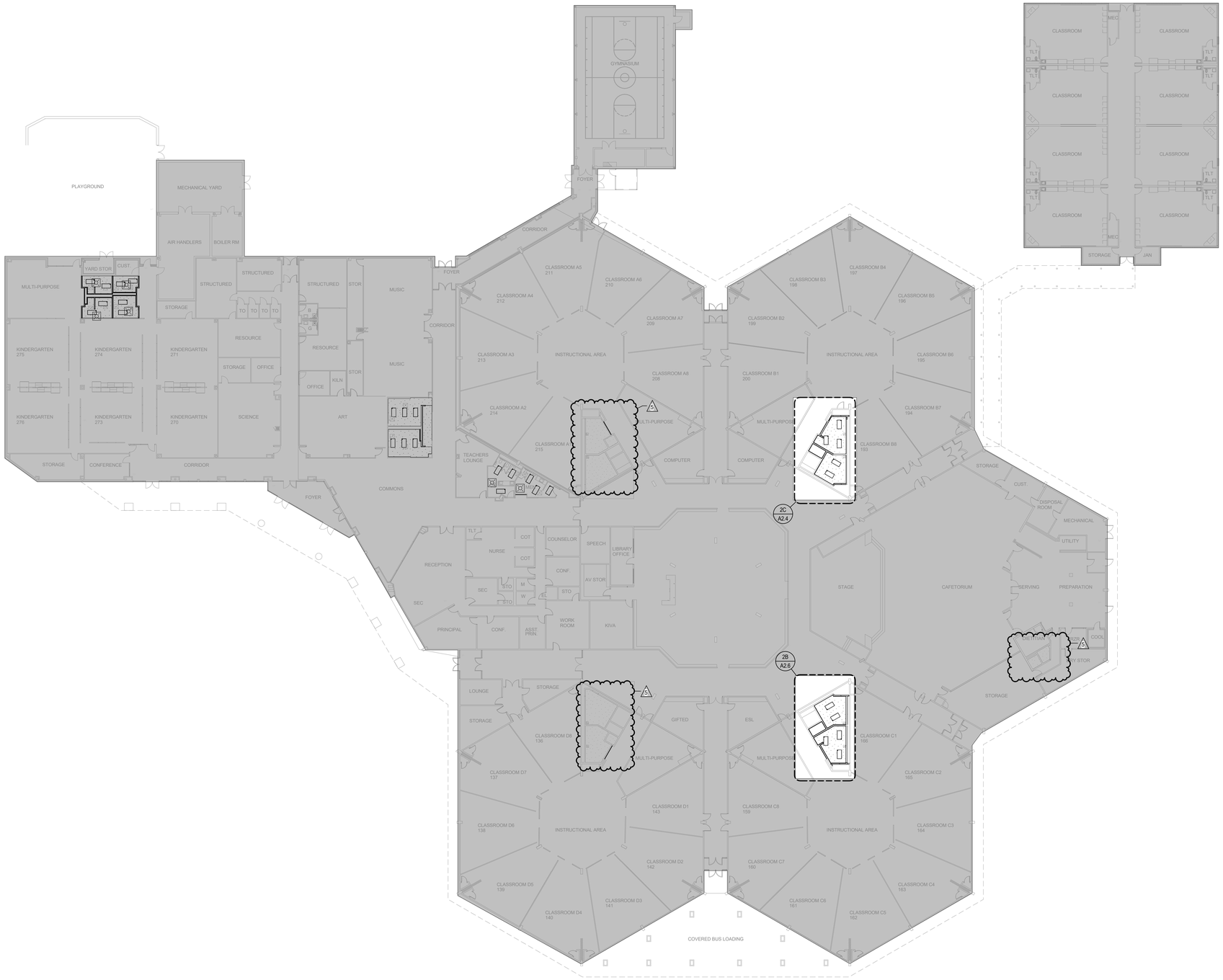

N
TRUE
1
A1.2
OVERALL REFLECTED CEILING PLAN, LEVEL 1
SCALE: 1" = 20'-0"

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

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OVERALL - REFLECTED CEILING PLAN

A1.2

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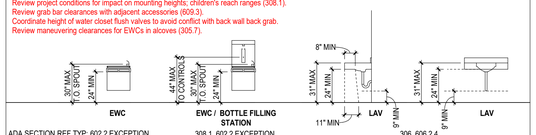
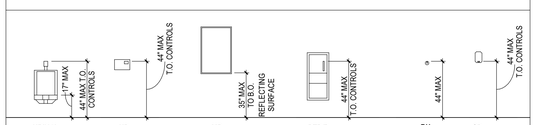
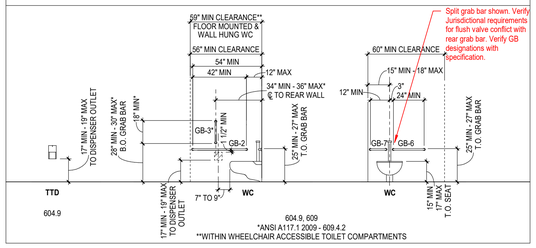
CHILDREN MOUNTING HEIGHTS (AGES 9-12) - 2010 ADA STANDARDS

ACCESSIBLE (ACC) UNO

Review project conditions for impact on mounting heights; children's reach ranges (308.1).
Review grab bar clearances with adjacent accessories (609.3).
Coordinate height of water closet flush valves to avoid conflict with back wall back grab.
Review maneuvering clearances for EWCs in alcoves (305.7).



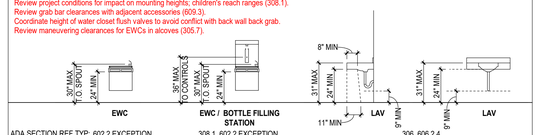


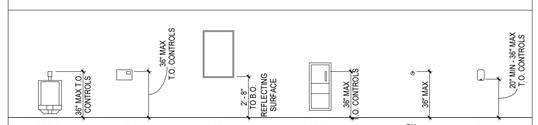


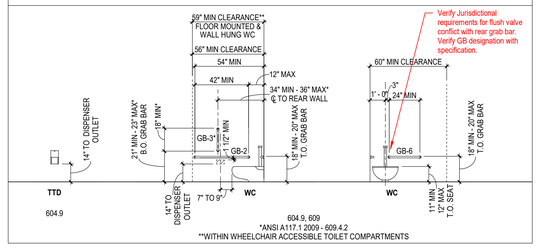
CHILDREN MOUNTING HEIGHTS (AGES 3-4) - 2010 ADA STANDARDS

ACCESSIBLE (ACC) UNO

Review project conditions for impact on mounting heights; children's reach ranges (308.1).
Review grab bar clearances with adjacent accessories (609.3).
Coordinate height of water closet flush valves to avoid conflict with back wall back grab.
Review maneuvering clearances for EWCs in alcoves (305.7).



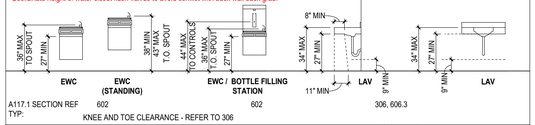


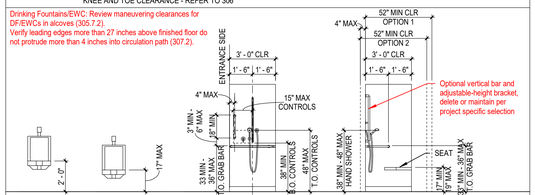


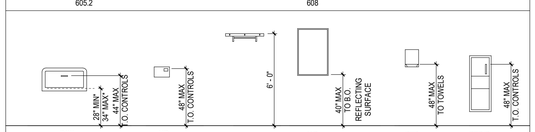
ADULT MOUNTING HEIGHTS - 2017 ICC A117.1

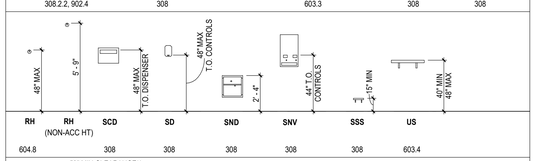
ACCESSIBLE (ACC) UNO

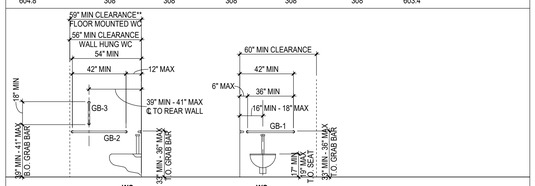
Review project conditions for impact on mounting heights; obstructed reach range (308) and maximum reach depth (Table 603.6).
Review grab bar clearances with adjacent accessories (609.3).
Coordinate height of water closet flush valves to avoid conflict with back wall back grab.

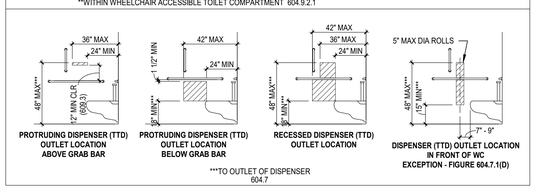








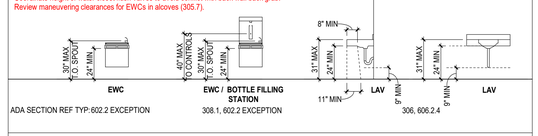


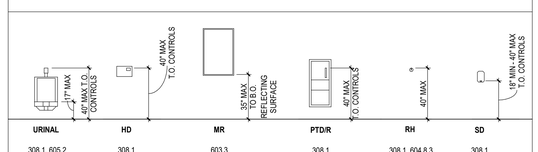


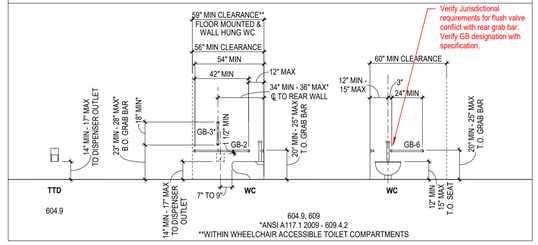
CHILDREN MOUNTING HEIGHTS (AGES 5-8) - 2010 ADA STANDARDS

ACCESSIBLE (ACC) UNO

Review project conditions for impact on mounting heights; children's reach ranges (308.1).
Review grab bar clearances with adjacent accessories (609.3).
Coordinate height of water closet flush valves to avoid conflict with back wall back grab.
Review maneuvering clearances for EWCs in alcoves (305.7).







GENERAL NOTES FOR ACCESSIBILITY - 2010 ADA

A. ACCESSIBLE URINAL SHALL PROVIDE CLEAR FLOOR SPACE PER 605.3.
B. ACCESSIBLE WATER CLOSETS SHALL PROVIDE CLEAR SPACE PER 604.3.1.
C. ACCESSIBLE LAVATORIES AND SINKS SHALL PROVIDE CLEAR SPACE PER 606.2.
D. ACCESSIBLE TOILET ROOMS SHALL PROVIDE A TURNING SPACE OF 60 INCHES IN DIAMETER PER 304.3.1.
E. ACCESSIBLE DRINKING FOUNTAINS / ELECTRIC WATER COOLERS SHALL PROVIDE CLEAR FLOOR SPACE PER 602.2.
F. ACCESSIBLE TOILET PARTITIONS SHALL COMPLY WITH 604.8.1.
G. EXPOSED PIPES AND SURFACES UNDER LAVATORIES AND SINKS SHALL BE INSULATED PER 606.5.

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REGISTERED ARCHITECT JUSTIN A. ALIEF 23632 STATE OF TEXAS 12/31/2025

BOONE ELEMENTARY SCHOOL

ALIEF INDEPENDENT SCHOOL DISTRICT

1400 BISSONNET STREET
HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
10-31-25

REVISIONS
3 02-11-26 ISSUE FOR BID & PERMIT

39-25156-00

ADA MOUNTING HEIGHTS

A2.0

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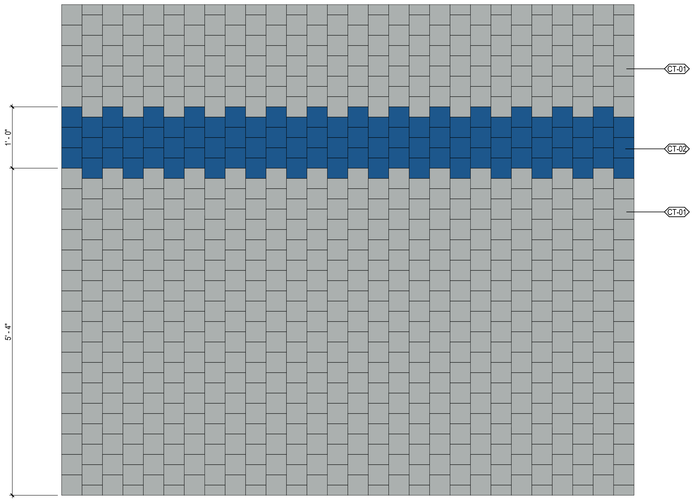

2E / A2.1 TYPICAL WALL TILE PATTERN - RESTROOMS AND DRINKING FOUNTAIN WALLS
SCALE: 1" = 1'-0"

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX.X.XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

ACT, ACOUSTICAL CEILING TILE

XXX — CEILING TYPE
X-XX — CEILING HEIGHT

INTERIOR FINISH PLAN GENERAL NOTES

A. FINISH SCHEDULE GENERAL NOTES APPLY TO ALL FINISH SCHEDULE SHEETS.
B. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
C. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS.
D. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED.
E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
I. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
J. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
K. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR, UNO.
L. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

AREA NOT IN CONTRACT (NIC)
NO — PLAN KEYED NOTE
CPT / VCT — FLOOR FINISH TRANSITION
FLOOR MATERIAL DIRECTION
XX-01 — FINISH MATERIAL TAG
XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

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REGISTERED ARCHITECT JUSTIN T. ALLEN 23632 STATE OF TEXAS
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ENLARGED FLOOR PLANS AND ELEVATIONS

A2.1

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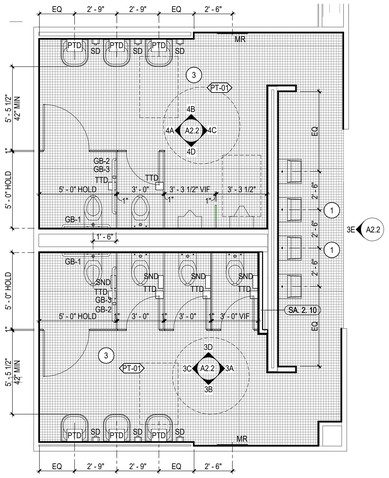
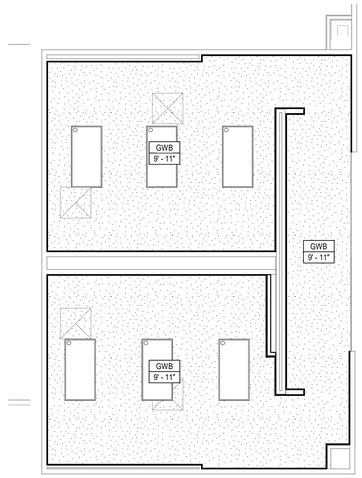
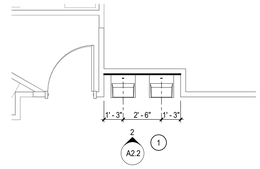


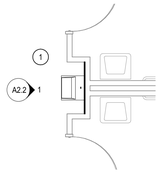
2A A2.2 ENLARGED FLOOR PLAN - MUSIC / ART RESTROOMS
SCALE: 1/4" = 1'-0"



2B A2.2 ENLARGED RCP - MUSIC / ART RESTROOMS
SCALE: 1/4" = 1'-0"



2C A2.2 DRINKING FOUNTAINS AT TEACHER'S LOUNGE
SCALE: 1/4" = 1'-0"



2D A2.2 DRINKING FOUNTAIN AT RESOURCE
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

SHEET NOTES

1 NEW BOTTLE FILLER DRINKING FOUNTAIN, REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.
2 EXISTING SALVAGED RE-INSTALLED BOTTLE FILLER / DRINKING FOUNTAIN, REFER MEP DRAWINGS.
3 GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.
4 GC TO PROVIDE 1/2" CEMENT BOARD BACKING ON CONTINUOUS 1/4" ALUMINUM Z-CLIP ANCHORS MOUNTED ON EXISTING CMU AND NEW WALLS WHERE CERAMIC TILE FINISH IS TO BE INSTALLED.

GENERAL ARCHITECTURAL NOTES

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2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX_X_XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
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12. NOT USED.

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REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

ACT, ACOUSTICAL CEILING TILE

XXX — CEILING TYPE
X-XX — CEILING HEIGHT

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E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
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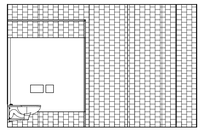
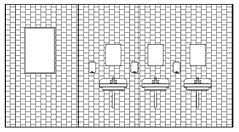
J. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
K. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR, UNO.
L. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

AREA NOT IN CONTRACT (NIC)
NO — PLAN KEYED NOTE
CPT / VCT — FLOOR FINISH TRANSITION
FLOOR MATERIAL DIRECTION
XX-01 — FINISH MATERIAL TAG
XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION



3A A2.2 5 - GIRLS - EAST
SCALE: 1/4" = 1'-0"



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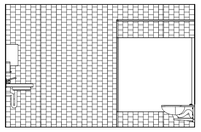
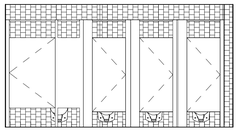
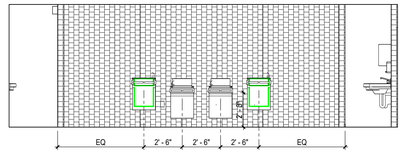


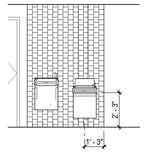
3C A2.2 5 - GIRLS - WEST
SCALE: 1/4" = 1'-0"



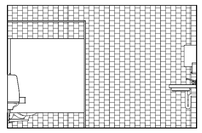
3D A2.2 5 - GIRLS - NORTH
SCALE: 1/4" = 1'-0"



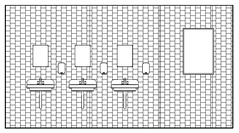
3E A2.2 DRINKING FOUNTAINS AT MUSIC / ART
SCALE: 1/4" = 1'-0"



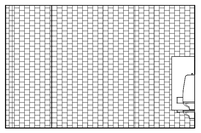
2 A2.2 DF AT TEACHER'S LOUNGE
SCALE: 1/4" = 1'-0"



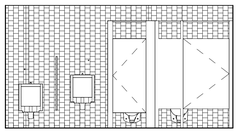
4A A2.2 6 - BOYS - WEST
SCALE: 1/4" = 1'-0"



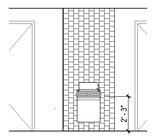
4B A2.2 6 - BOYS - NORTH
SCALE: 1/4" = 1'-0"



4C A2.2 6 - BOYS - EAST
SCALE: 1/4" = 1'-0"



4D A2.2 6 - BOYS - SOUTH
SCALE: 1/4" = 1'-0"



1 A2.2 RESOURCE
SCALE: 1/4" = 1'-0"

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REGISTERED ARCHITECT JUSTIN M. ALLEN 23632 STATE OF TEXAS
12/31/2025

BOONE ELEMENTARY SCHOOL
ALIEF INDEPENDENT SCHOOL DISTRICT
11400 BISSONNET STREET
HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
10-31-25
REVISIONS

39-25156-00

ENLARGED FLOOR PLANS AND ELEVATIONS

A2.2

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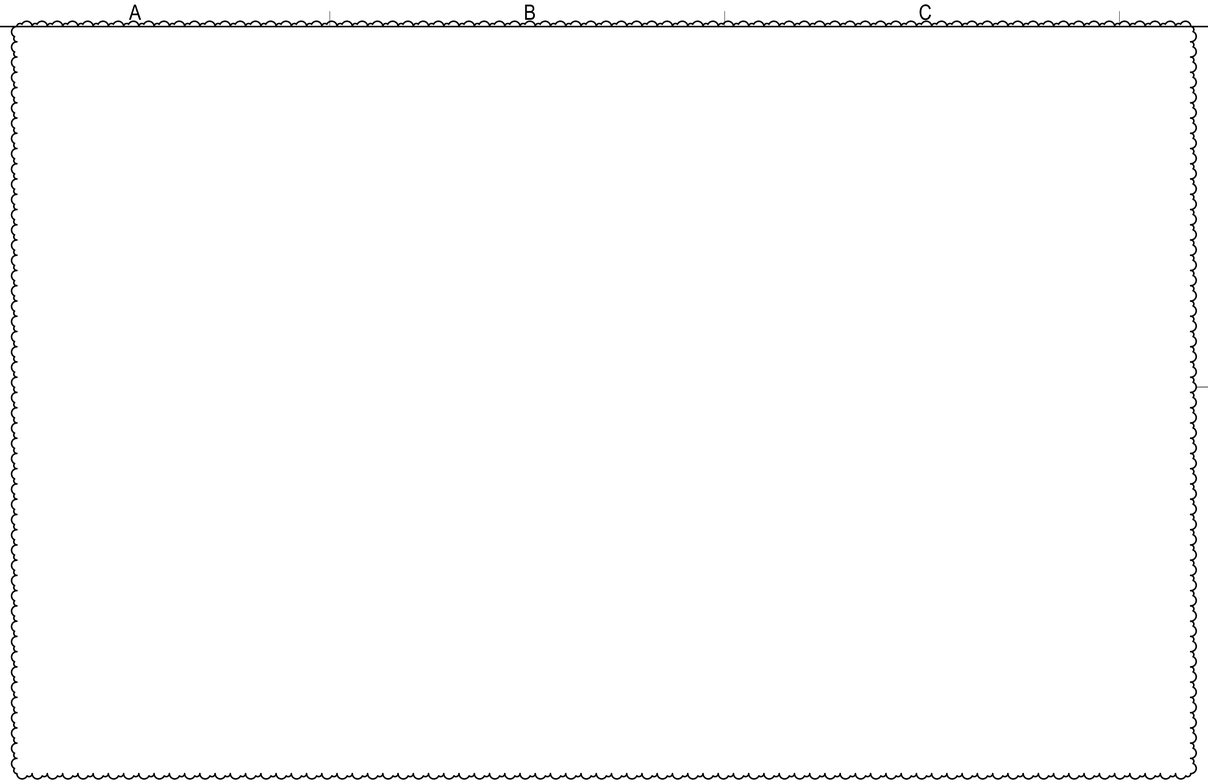

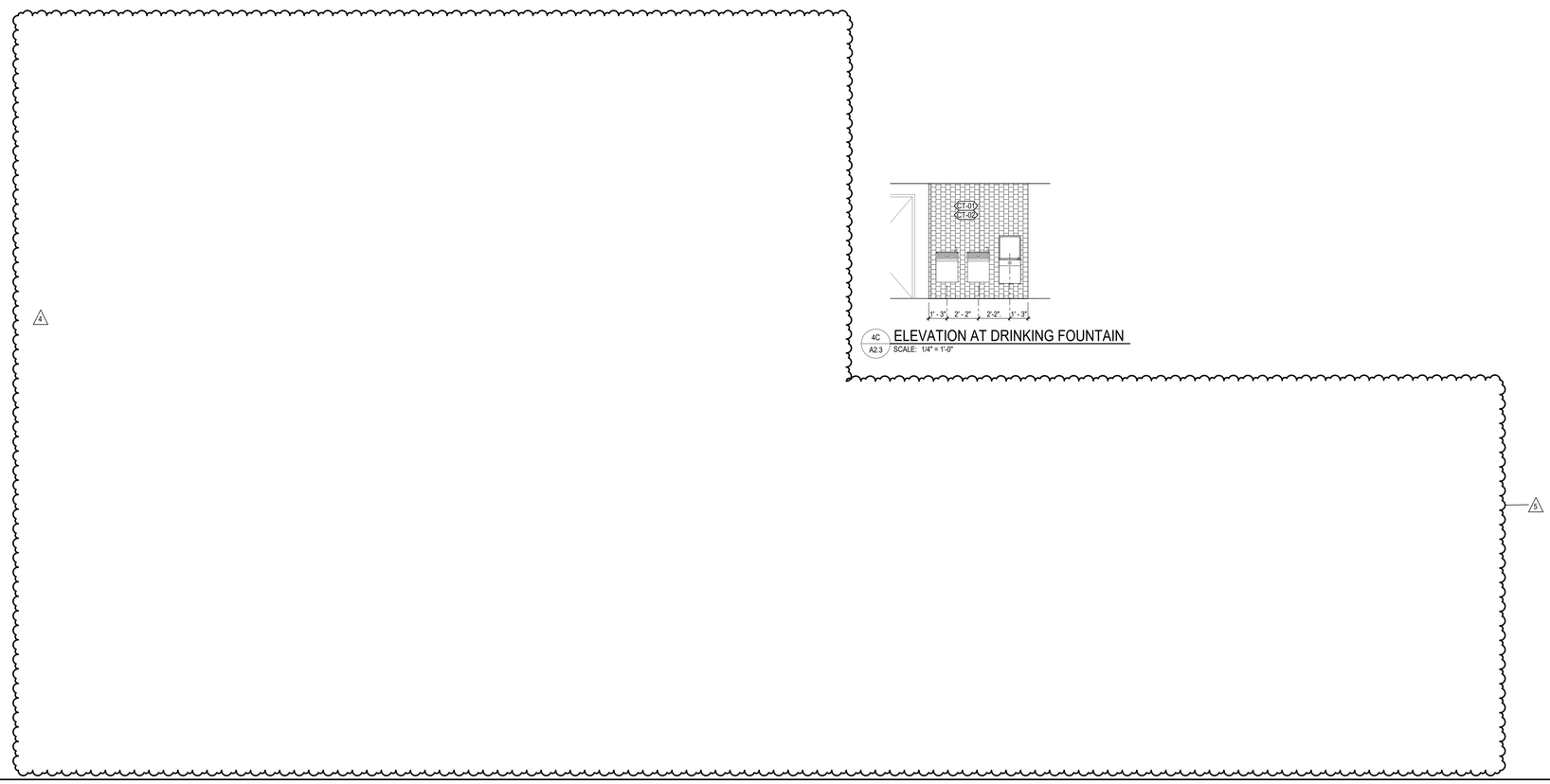

4C
A2.3 ELEVATION AT DRINKING FOUNTAIN
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

(#) SHEET NOTES

1 NEW BOTTLE FILLER DRINKING FOUNTAIN, REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.

2 EXISTING SALVAGED RE-INSTALLED BOTTLE FILLER / DRINKING FOUNTAIN, REFER MEP DRAWINGS.

3 GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.

4 GC TO PROVIDE 1/2" CEMENT BOARD BACKING ON CONTINUOUS 1/4" ALUMINUM Z-CLIP ANCHORS MOUNTED ON EXISTING CMU AND NEW WALLS WHERE CERAMIC TILE FINISH IS TO BE INSTALLED.

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX.X.XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

ACT, ACOUSTICAL CEILING TILE

XXX — CEILING TYPE
X-XX — CEILING HEIGHT

INTERIOR FINISH PLAN GENERAL NOTES

A. FINISH SCHEDULE GENERAL NOTES APPLY TO ALL FINISH SCHEDULE SHEETS.
B. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
C. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS.
D. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED.
E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
I. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
J. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
K. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR, UNO.
L. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

AREA NOT IN CONTRACT (NIC)
NO — PLAN KEYED NOTE
CPT / VCT — FLOOR FINISH TRANSITION
FLOOR MATERIAL DIRECTION
XX-01 — FINISH MATERIAL TAG
XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

DLR GROUP
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REGISTERED ARCHITECT
JUSTIN T. ALEXANDER
23632
STATE OF TEXAS
12/31/2025

BOONE ELEMENTARY SCHOOL

ALIEF INDEPENDENT SCHOOL DISTRICT

11400 BISSONNET STREET
HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
10-31-25

REVISIONS

3	02-11-26	ISSUE FOR BID & PERMIT
ADD 3	02-25-26	ADD 3 - BID ADDENDA
ADD 4	04-06-26	OWNER VE

39-25156-00

ENLARGED FLOOR PLANS AND ELEVATIONS

A2.3

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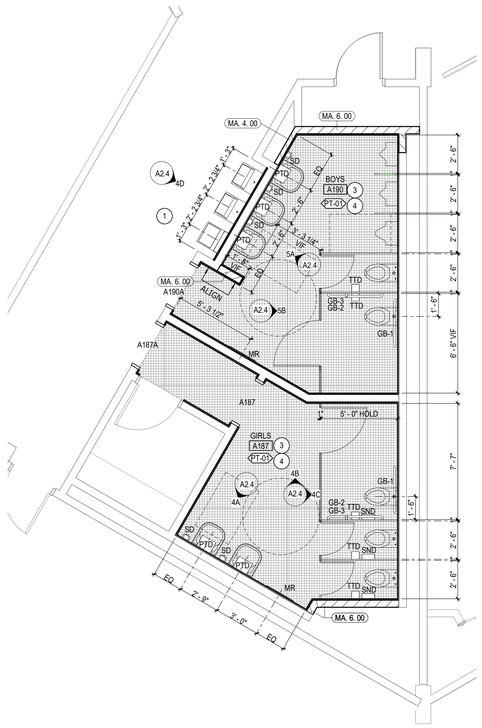
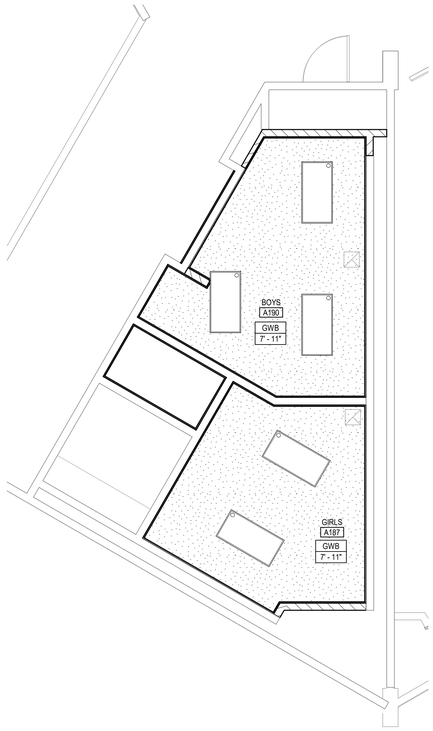
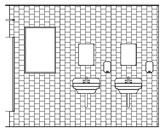


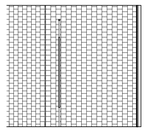
2A / A2.4 ENLARGED FLOOR PLAN - GIRLS 187 / BOYS 190
SCALE: 1/4" = 1'-0"



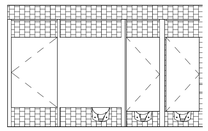
2C / A2.4 ENLARGED RCP - GIRLS 187 / BOYS 190
SCALE: 1/4" = 1'-0"



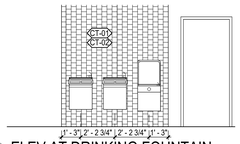
4A / A2.4 SOUTHWEST ELEVATION - GIRLS 187
SCALE: 1/4" = 1'-0"



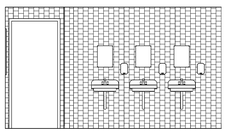
4B / A2.4 187 - GIRLS - NORTH
SCALE: 1/4" = 1'-0"



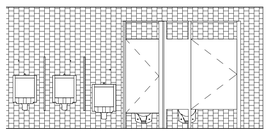
4C / A2.4 187 - GIRLS - EAST
SCALE: 1/4" = 1'-0"



4D / A2.4 ELEV AT DRINKING FOUNTAIN
SCALE: 1/4" = 1'-0"



5A / A2.4 NORTHWEST ELEVATION - BOYS 190
SCALE: 1/4" = 1'-0"



5B / A2.4 190 - BOYS - EAST
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

SHEET NOTES

1 NEW BOTTLE FILLER DRINKING FOUNTAIN, REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.

2 EXISTING SALVAGED RE-INSTALLED BOTTLE FILLER / DRINKING FOUNTAIN, REFER MEP DRAWINGS.

3 GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.

4 GC TO PROVIDE 1/2" CEMENT BOARD BACKING ON CONTINUOUS 1/4" ALUMINUM Z-CLIP ANCHORS MOUNTED ON EXISTING CMU AND NEW WALLS WHERE CERAMIC TILE FINISH IS TO BE INSTALLED.

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX_X_XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS: I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

ACT, ACOUSTICAL CEILING TILE

XXX — CEILING TYPE
X-XX — CEILING HEIGHT

INTERIOR FINISH PLAN GENERAL NOTES

A. FINISH SCHEDULE GENERAL NOTES APPLY TO ALL FINISH SCHEDULE SHEETS.
B. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
C. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS.
D. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED.
E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
I. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
J. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
K. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR, UNO.
L. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

AREA NOT IN CONTRACT (NIC)
NO — PLAN KEYED NOTE
CPT / VCT — FLOOR FINISH TRANSITION
FLOOR MATERIAL DIRECTION
XX-01 — FINISH MATERIAL TAG
XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

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REGISTERED ARCHITECT JUSTIN A. TAI 23632 STATE OF TEXAS
12/31/2025

BOONE ELEMENTARY SCHOOL

ALIEF INDEPENDENT SCHOOL DISTRICT

11400 BISSONNET STREET
HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
10-31-25

REVISIONS
2 01-13-26 TAS / COH COMMENTS
3 02-11-26 ISSUE FOR BID & PERMIT

39-25156-00

ENLARGED FLOOR PLANS AND ELEVATIONS

A2.4

Autodesk Docs://39-25156-00 Alief ISD nestrm revit/39-25156-00 Boone Elementary_AR_2024.rvt
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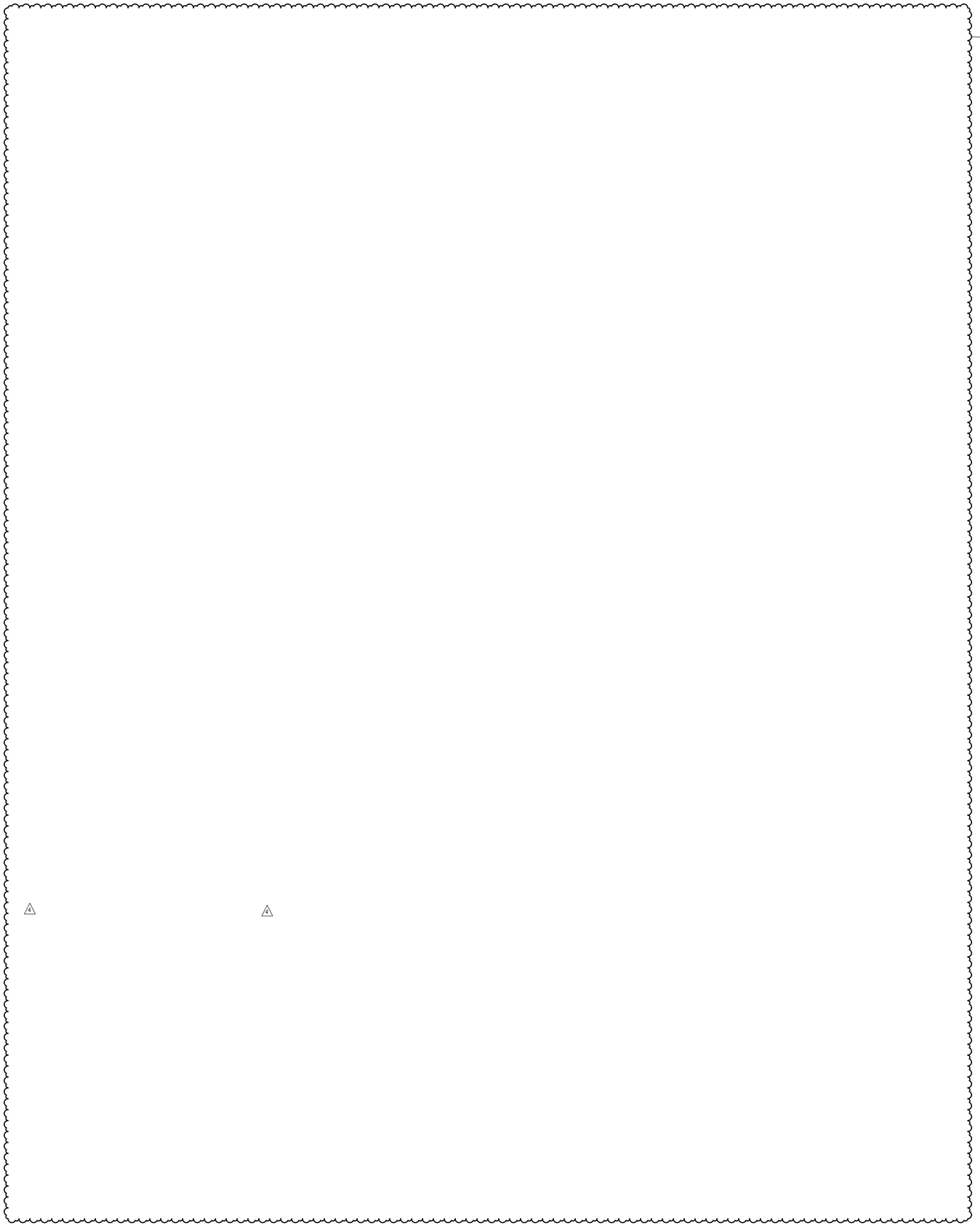
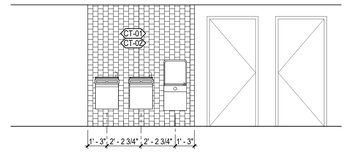


TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

(#) SHEET NOTES

1. NEW BOTTLE FILLER DRINKING FOUNTAIN, REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.
2. EXISTING SALVAGED RE-INSTALLED BOTTLE FILLER / DRINKING FOUNTAIN, REFER MEP DRAWINGS.
3. GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.
4. GC TO PROVIDE 1/2" CEMENT BOARD BACKING ON CONTINUOUS 1/4" ALUMINUM Z-CLIP ANCHORS MOUNTED ON EXISTING CMU AND NEW WALLS WHERE CERAMIC TILE FINISH IS TO BE INSTALLED.



4E / A2.5 DRINKING FOUNTAIN ELEVATION
SCALE: 1/4" = 1'-0"

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX_X_XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFLECTED CEILING PLAN LEGEND

CEILING TYPES

- GWB, GYPSUM BOARD CEILING
- ACT, ACOUSTICAL CEILING TILE
- XXX / X-XX — CEILING TYPE / CEILING HEIGHT

INTERIOR FINISH PLAN GENERAL NOTES

A. FINISH SCHEDULE GENERAL NOTES APPLY TO ALL FINISH SCHEDULE SHEETS.
B. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
C. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS.
D. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED.
E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
I. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
J. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
K. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR, UNO.
L. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

- AREA NOT IN CONTRACT (NIC)
- (N0) — PLAN KEYED NOTE
- CPT / VCT — FLOOR FINISH TRANSITION
- FLOOR MATERIAL DIRECTION
- XX-01 — FINISH MATERIAL TAG
- XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

DLR GROUP
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REGISTERED ARCHITECT
JUSTIN A. [illegible]
23632
STATE OF TEXAS
12/31/2025

BOONE ELEMENTARY SCHOOL

ALIEF INDEPENDENT SCHOOL DISTRICT

11400 BISSONNET STREET
HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
10-31-25

REVISIONS

3	02-11-26	ISSUE FOR BID & PERMIT
ADD 3	02-25-26	ADD 3 - BID ADDENDA
ADD 4	04-06-26	OWNER VE

39-25156-00

ENLARGED FLOOR PLANS AND ELEVATIONS

A2.5

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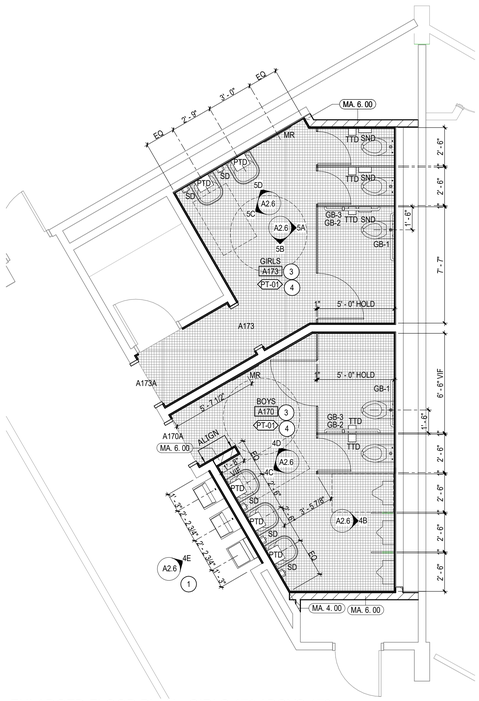
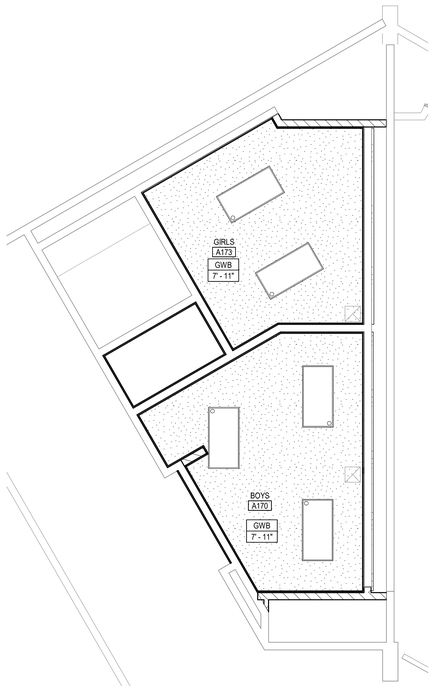


2A A2.6 ENLARGED FLOOR PLAN - GIRLS 170 / BOYS 173
SCALE: 1/4" = 1'-0"



2B A2.6 ENLARGED RCP - GIRLS 170 / BOYS 173
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ABBREV	DESCRIPTION
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US	UTILITY SHELF
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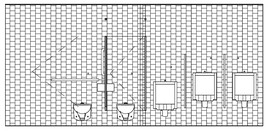
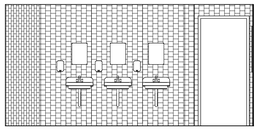
FINISH PLAN LEGEND

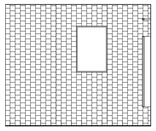
AREA NOT IN CONTRACT (NIC)
NO — PLAN KEYED NOTE
CPT / VCT — FLOOR FINISH TRANSITION
FLOOR MATERIAL DIRECTION
XX-01 — FINISH MATERIAL TAG
XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION



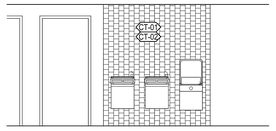
4B A2.6 170 - BOYS - EAST
SCALE: 1/4" = 1'-0"



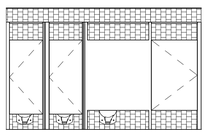
4C A2.6 170 - BOYS - WEST
SCALE: 1/4" = 1'-0"



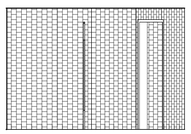
4D A2.6 170 - BOYS - NORTH
SCALE: 1/4" = 1'-0"



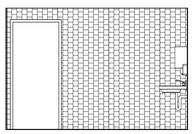
4E A2.6 ELEVATION @ DRINKING FOUNTAIN
SCALE: 1/4" = 1'-0"



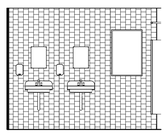
5A A2.6 EAST ELEVATION - GIRLS 173
SCALE: 1/4" = 1'-0"



5B A2.6 SOUTH ELEVATION - GIRLS 173
SCALE: 1/4" = 1'-0"



5C A2.6 173 - GIRLS - WEST
SCALE: 1/4" = 1'-0"



5D A2.6 173 - GIRLS - NORTH
SCALE: 1/4" = 1'-0"

DLR GROUP
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REGISTERED ARCHITECT JUSTIN A. TAYLOR 23632 STATE OF TEXAS
12/31/2025

BOONE ELEMENTARY SCHOOL
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ENLARGED FLOOR PLANS AND ELEVATIONS

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GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MRS	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

(#) SHEET NOTES

1. NEW BOTTLE FILLER DRINKING FOUNTAIN, REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.
2. EXISTING SALVAGED RE-INSTALLED BOTTLE FILLER / DRINKING FOUNTAIN, REFER MEP DRAWINGS.
3. GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.
4. GC TO PROVIDE 1/2" CEMENT BOARD BACKING ON CONTINUOUS 1/4" ALUMINUM Z-CLIP ANCHORS MOUNTED ON EXISTING CMU AND NEW WALLS WHERE CERAMIC TILE FINISH IS TO BE INSTALLED.

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX_X_XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFLECTED CEILING PLAN LEGEND

CEILING TYPES

- GWB, GYPSUM BOARD CEILING
- ACT, ACOUSTICAL CEILING TILE
- XXX — CEILING TYPE
- X-XX — CEILING HEIGHT

INTERIOR FINISH PLAN GENERAL NOTES

A. FINISH SCHEDULE GENERAL NOTES APPLY TO ALL FINISH SCHEDULE SHEETS.
B. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
C. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS.
D. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED.
E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
I. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
J. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
K. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR, UNO.
L. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

- AREA NOT IN CONTRACT (NIC)
- (NO) — PLAN KEYED NOTE
- CPT / VCT — FLOOR FINISH TRANSITION
- FLOOR MATERIAL DIRECTION
- XX-01 — FINISH MATERIAL TAG
- XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

DLR GROUP
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REGISTERED ARCHITECT JUSTIN A. ABRAM 23632 STATE OF TEXAS
12/31/2025

BOONE ELEMENTARY SCHOOL

ALIEF INDEPENDENT SCHOOL DISTRICT

11400 BISSONNET STREET
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ADD 4 04-06-26 OWNER VE

39-25156-00

ENLARGED FLOOR PLANS AND ELEVATIONS

A2.7

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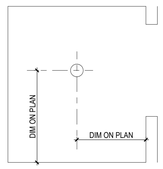
TYPICAL RULES FOR DETERMINING LOCATIONS OF VISIBLE CEILING ITEMS, DIMENSIONS, AND CONFIGURATIONS

LOCATE ITEMS AS INDICATED WHEN SHOWN DIMENSIONED BY A REFLECTED CEILING PLAN, ENLARGED REFLECTED CEILING PLAN, OR DETAIL.

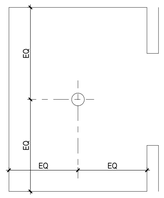
SPECIFIC DIMENSIONS SHOWN BY REFLECTED CEILING PLANS, ELEVATIONS, OR DETAILS TAKE PRECEDENCE OVER TYPICAL LOCATION RULES.



RULE 1

WHEN COMPLETELY DIMENSIONED ON REFLECTED CEILING PLAN

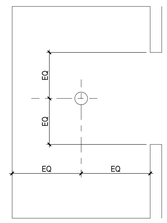
LOCATE ITEMS CENTERED IN SPACE (OR CEILING PLANE) WHEN SHOWN (BUT NOT DIMENSIONED) VISUALLY AT APPROXIMATE CENTER OF SPACE.



RULE 2

WHEN NOT DIMENSIONED BUT SHOWN CENTERED

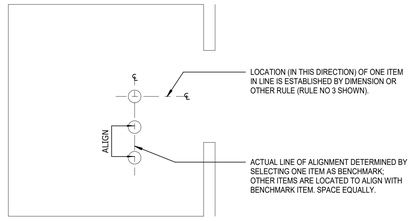
LOCATE ITEMS CENTERED ON ADJACENT OPENING OR FEATURE WHEN SHOWN (BUT NOT DIMENSIONED) OFF-CENTER IN OVERALL SPACE BUT CENTERED AGAINST ADJACENT FEATURE.



RULE 3

WHEN OFF-CENTER IN SPACE BUT CENTERED ON ADJACENT FEATURE

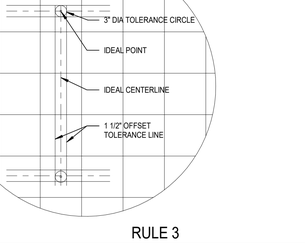
LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC) ALIGNED WITH ADJACENT ITEMS FOR WHICH DIMENSIONS OR RULES ARE PROVIDED. VISUAL ALIGNMENT IS CRITICAL. THE CONTRACTOR SHALL SELECT ONE ITEM IN EACH LINE (ON BASIS OF TOLERANCES, SEQUENCE OF CONSTRUCTION, TRADE, OR OTHER CRITERIA) TO SERVE AS THE BENCHMARK FOR EACH ALIGNMENT.



RULE 4

WHEN ALIGNED WITH OTHER FEATURES

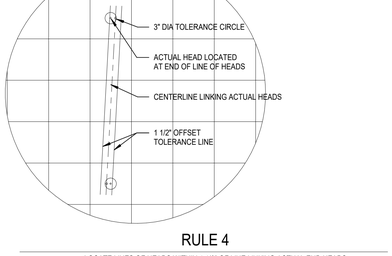
LOCATE ITEMS ALIGNED WITH OTHER ITEMS SHOWN DIMENSIONED ELSEWHERE IN SPACE (OR CEILING PLANE).



RULE 5

ALIGN WITH FEATURES SHOWN DIMENSIONED ELSEWHERE IN SPACE

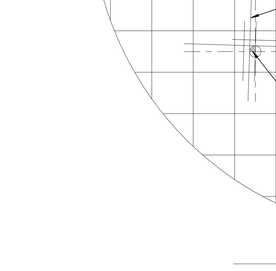
LOCATE ITEMS ALIGNED WITH OTHER ITEMS SHOWN DIMENSIONED ELSEWHERE IN SPACE (OR CEILING PLANE).



RULE 6

LOCATE FEATURES SYMMETRICALLY

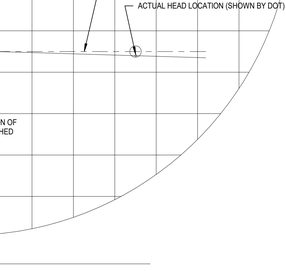
LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC) AT CENTER OF OF PANEL ON SQUARE GRID-TYPE CEILINGS



RULE 7

WHEN NOT DIMENSIONED BUT OCCURS ON A SQUARE GRID-TYPE CEILING

LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC) AT CENTER OF SHORT DIRECTION OF RECTANGULAR PANEL; LOCATE AT 1/4, 1/2, OR 3/4 POINT OF LONG DIRECTION OF RECTANGULAR PANEL



RULE 8

WHEN NOT DIMENSIONED BUT OCCURS ON A RECTANGULAR GRID-TYPE CEILING

TYPICAL TOLERANCES FOR LOCATING SPRINKLER HEADS

FOR MANY SPACES, THE ARCHITECTURAL REFLECTED CEILING PLANS ESTABLISH AN IDEAL PATTERN FOR LOCATING SPRINKLER HEADS. IN SPACES WHERE HEADS ARE SHOWN, FOLLOW PATTERN ESTABLISHED BY THE DRAWINGS. WHERE ADDL HEADS ARE REQUIRED TO CONFORM WITH CODE, PROVIDE HEADS IN GENERAL CONFORMITY WITH PATTERN ESTABLISHED BY THE DRAWINGS.

IN SPACES WHERE SPRINKLER HEADS ARE NOT SHOWN IN THE ARCHITECTURAL REFLECTED CEILING PLANS, PROVIDE HEADS AS REQUIRED BY CODE.

RULE 1

LOCATE HEADS AS SHOWN ON A-SERIES DRAWINGS

LOCATE SPRINKLER HEADS WITHIN 3" DIAMETER OF IDEAL POINT DIMENSIONED (OR SHOWN BY RULE) ON REFLECTED CEILING PLAN.

RULE 2

LOCATE HEADS WITHIN 3" DIAMETER OF IDEAL LOCATION POINT

RULES NO. 2, NO. 3, AND 4 WHEN COMBINED MAY RESULT IN MORE RESTRICTIVE TOLERANCES

RULE 5

RULES COMBINED

LOCATE SPRINKLER HEADS WITHIN 3" DIAMETER OF IDEAL POINT DIMENSIONED (OR SHOWN BY RULE) ON REFLECTED CEILING PLAN.

RULE 3

LOCATE LINES OF HEADS WITHIN 1 1/2" OF IDEAL CENTERLINE

LOCATE SPRINKLER HEADS WITHIN 3" DIAMETER OF IDEAL POINT DIMENSIONED (OR SHOWN BY RULE) ON REFLECTED CEILING PLAN.

RULE 4

LOCATE LINES OF HEADS WITHIN 1 1/2" OF LINE LINKING ACTUAL END HEADS

GENERAL NOTES

A. THE A-SERIES DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND LOCATION OF ALL EXPOSED ELEMENTS. THE A-SERIES DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND LOCATION OF ALL PARTS OF THE WORK.

   EXCEPTION: DIMENSIONED LOCATIONS SHOWN ON ON DRAWINGS OF OTHER DISCIPLINES SHALL GOVERN ONLY WHERE:

   1. SPECIFICALLY AND INDIVIDUALLY INDICATED BY SYMBOL, KEYED NOTE, OR NOTATION ON THE ARCHITECTURAL DRAWINGS.
   2. OCCURRING WITHIN A ROOM OR OTHER IDENTIFIABLE SPACE FOR WHICH ARCHITECTURE SHEET OR SCHEDULE NOTES INDICATE THAT DIMENSIONS PROVIDED ELSEWHERE SHALL GOVERN.

B. THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE THE TYPICAL RULES WHICH GOVERN THE LOCATION, CONFIGURATION IN RELATIONSHIP TO OTHER ELEMENTS OF THE WORK, AND FINISHED ALIGNMENT OF ALL ITEMS OCCURRING ON REFLECTED CEILING PLANS OF THE PROJECT.

C. THE A-SERIES FLOOR PLANS, REFLECTED CEILING PLANS, SECTIONS, ELEVATIONS, AND DETAILS ILLUSTRATE THE DIMENSIONED LOCATION OF MANY - BUT NOT ALL - EXPOSED PARTS OF THE WORK. APPLY THE RULES ON THIS SHEET - IN DESCENDING ORDER - TO DETERMINE THE LOCATION OF EXPOSED PART OF THE WORK.

   1. WHEN UNIQUELY AND SPECIFICALLY DIMENSIONED ON THE A-SERIES PLANS, SECTIONS, OR ELEVATIONS (OR COMBINATION THEREOF), LOCATE AS DIMENSIONED.
   2. IF NOT SHOWN, OR IF SHOWN BUT NOT DIMENSIONED, BY THE A-SERIES PLANS OR ELEVATIONS, LOCATE AS INDICATED BY THE APPLICABLE RULE.

D. REFER TO THE "ARCHITECTURAL GENERAL NOTES" FOR ADDITIONAL NOTES WHICH MAY BE APPLICABLE TO THE WORK SHOWN ON THIS SHEET.

E. REFER TO THE "PROJECT GENERAL NOTES" FOR ADDITIONAL NOTES WHICH APPLY TO THE ENTIRE PROJECT.

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REGISTERED ARCHITECT
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STATE OF TEXAS
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TYPICAL REFLECTED CEILING PLAN RULES

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DOOR AND FRAME SCHEDULE

NUMBER	PANEL NO. OF PANELS	PANEL WIDTH	PANEL HEIGHT	PANEL THICKNESS	PANEL MATERIAL	PANEL GLASS	PANEL TYPE	FRAME MATERIAL	FRAME TYPE	FIRE RATING	HARDWARE SET	DETAILS HEAD	DETAILS JAMB LEFT	DETAILS JAMB RIGHT	DETAILS SILL	COMMENTS
A170A		3'-0"	9'-9" VIF					HM	1		002	2A/A8.2	2B/A8.2	2B/A8.2 O.H.	2C/A8.2	CASED OPENING W/ TRANSOM TO MATCH EXISTING, REFER 5A/A8.2
A173		3'-0"	7'-9" VIF					HM	1		002	2A/A8.2	2B/A8.2	2B/A8.2 O.H.	2C/A8.2	CASED OPENING
A173A		3'-0"	9'-9" VIF					HM	1		002	2A/A8.2	2B/A8.2	2B/A8.2 O.H.	2C/A8.2	CASED OPENING W/ TRANSOM TO MATCH EXISTING, REFER 5A/A8.2
A187		3'-0"	7'-9" VIF					HM	1		002	2A/A8.2	2B/A8.2	2B/A8.2 O.H.	2C/A8.2	CASED OPENING
A187A		3'-0"	9'-9" VIF					HM	1		002	2A/A8.2	2B/A8.2	2B/A8.2 O.H.	2C/A8.2	CASED OPENING W/ TRANSOM TO MATCH EXISTING, REFER 5A/A8.2
A190A		3'-0"	9'-9" VIF					HM	1		002	2A/A8.2	2B/A8.2	2B/A8.2 O.H.	2C/A8.2	CASED OPENING W/ TRANSOM TO MATCH EXISTING, REFER 5A/A8.2

NOTE:
GC TO PAINT ALL DOOR FRAMES AND CASED OPENINGS TOUCHED BY THIS RENOVATION PROJECT (EXISTING OR NEW), TO MATCH ADJACENT WALL COLOR.

GC TO FIELD VERIFY EXISTING DOOR OPENINGS AND COORDINATE NEW OPENINGS WITH EXISTING.

HARDWARE GROUP:

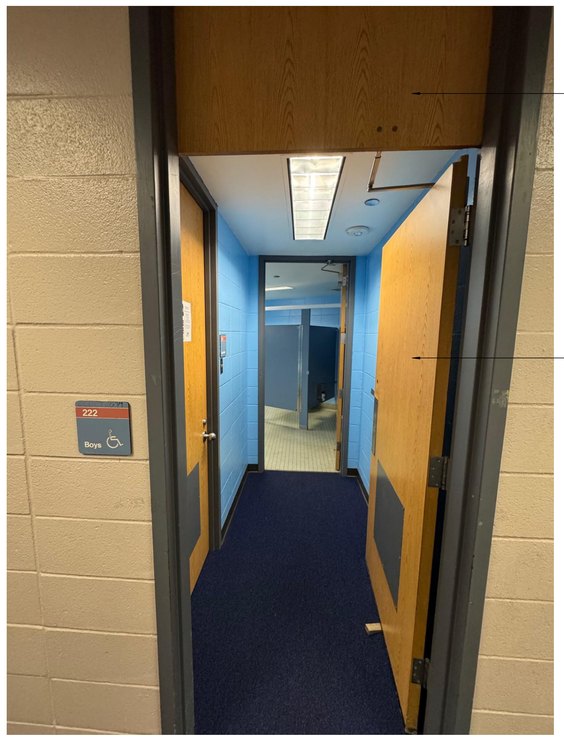
HARDWARE GROUP NO 002 - CASED OPEN
PROVIDE EACH CASED OPENING WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
	NOTE	CASED OPENING, NO HARDWARE		

HARDWARE GROUP NO 341 - SGL PRIV RR W/ INDICATOR
PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1 EA	PRIVACY W/ INDICATOR	MA311 OCCUPIED/VACANT QNM	626	FAL
1 EA	SURFACE CLOSER	4040XP RW/PA/EDA TBSRT X MTG BRKT; SPCR & PLATE AS REQ	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	WALL STOP	WS406/407 CCV	630	IVE
1 EA	GASKETING	488SBK PSA H & J	BK	ZER

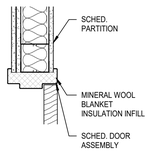
OMIT CLOSER AT DOOR A108



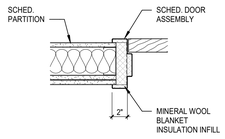
PROVIDE TRANSOM AT NEW CASED OPENINGS TO MATCH EXISTING CONDITIONS

MATCH EXISTING FRAME HEIGHT AND WIDTH AND DELETE DOOR AT NEW CASED OPENINGS

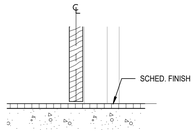
5A / A8.2 EXISTING OPENING - MATCH
SCALE: 3" = 1'-0"



2A / A8.2 HM DOOR HEAD
SCALE: 1 1/2" = 1'-0"

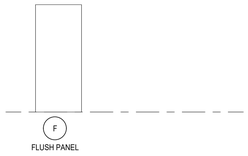


2B / A8.2 HM DOOR JAMB
SCALE: 1 1/2" = 1'-0"



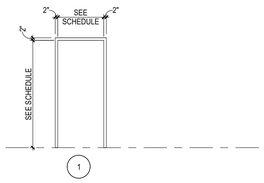
2C / A8.2 HM DOOR SILL
SCALE: 1 1/2" = 1'-0"

5 / A8.2



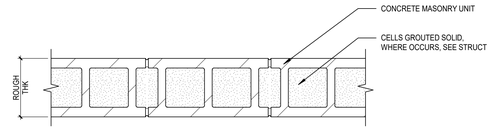
FLUSH PANEL

DOOR PANEL TYPES



INTERIOR FRAME TYPES

4



NON-RATED MASONRY PARTITON

MARK			ROUGH THICKNESS	FIRE/SMOKE RATING	FIRE/SMOKE TESTED ASSEMBLIES	SOUND STC RATING	SOUND TESTED ASSEMBLIES	T.O. WALL DETAIL	B.O. WALL DETAIL	COMMENTS
MA	4	00	3 5/8"	NR	NA					
MA	6	00	5 5/8"	NR	NA					

DOOR AND FRAME SCHEDULE GENERAL NOTES

A. NOT USED.
B. ALL INTERIOR HOLLOW METAL FRAMES SET IN MASONRY AND CONCRETE WALLS SHALL BE GROUTED SOLID.
C. ALL HOLLOW METAL FRAMES SET IN METAL STUD WALLS SHALL BE FILLED WITH MINERAL WOOL BLANKET INSULATION.
D. NOT USED.
E. NOT USED.
F. GLASS TYPES FOR DOORS ARE INDICATED IN THE DOOR GLAZING COLUMN OF THE DOOR AND FRAME SCHEDULE. GLASS TYPES FOR FRAMES ARE INDICATED ON THE FRAME ELEVATIONS.
G. NOT USED.
H. FRAME MANUFACTURER SHALL COORDINATE LOCATIONS OF ALL CONCEALED CONDUIT AND J-BOXES REQUIRED FOR SECURITY SYSTEM HARDWARE PRIOR TO MANUFACTURING OF HOLLOW METAL FRAMES AND COORDINATE WITH SECURITY HARDWARE AND DEVICES.
I. NOT USED.
J. SEE SPECIFICATIONS HARDWARE SECTION FOR HARDWARE SETS NOTED IN DOOR AND FRAME SCHEDULE.

DOOR PANEL TYPE DESCRIPTIONS

DG DUAL LITE GLASS
F FLUSH PANEL
FG FULL LITE GLASS
FL FULL LOUVERED
G HALF LITE GLASS
GL HALF LITE GLASS & LOUVERED
L LOUVERED (BOTTOM)
LL LOUVERED (TOP & BOTTOM)
N NARROW LITE GLASS
NL NARROW LITE GLASS & LOUVERED
TL LOUVERED (TOP)
V VISION LITE GLASS (10" SQUARE)
VL VISION LITE GLASS & LOUVERED

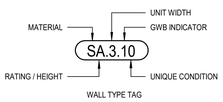
PARTITION TYPES DESCRIPTIONS

MATERIAL DESCRIPTION
S = STEEL (METAL STUDS)
W = WOOD STUDS
H = SHAFT WALLS
M = MASONRY
C = CONCRETE

RATING / HEIGHT
A = FULL HEIGHT / UNDERSIDE OF STRUCT (NOT RATED)
B = 6" ABOVE CEILING (NOT RATED)
C = UNDERSIDE OF CEILING (NOT RATED)
D = PARTIAL HEIGHT (NOT RATED)
X = VARIABLE HEIGHT (NOT RATED)
S = SMOKE PARTITON (NOT RATED)
0 = 0 HOUR RATED (CORRIDOR)
5 = 0.5 HOUR RATED
1 = 1 HOUR RATED
2 = 2 HOUR RATED
3 = 3 HOUR RATED
4 = 4 HOUR RATED

UNIT WIDTH / CONFIGURATION
F = FURRING STRIPS / CHANNELS
1 = 1 5/8" METAL
2 = 2 1/2" METAL / 1 1/2" WOOD
3 = 3 5/8" METAL
4 = 4" METAL / 3 1/2 WOOD / 3 5/8" CMU
6 = 6" METAL / 5 1/2" WOOD / 5 5/8" CMU / 6" CONC
8 = 8" METAL / 7 1/4" WOOD / 7 5/8" CMU / 8" CONC
10 = 10" CONC
12 = 11 5/8" CMU / 12" CONC
X = NON-STANDARD WIDTH, SEE DETAILS
D = DOUBLE STUD FRAMING
S = STAGGERED STUD FRAMING

GYPSUM WALLBOARD INDICATOR
(NOT INCLUDING SHAFT LINER)
0 = NO GWB
1 = ONE LAYER, TAG SIDE
2 = ONE LAYER, EACH SIDE
3 = TWO LAYERS TAG SIDE, ONE LAYER OTHER
4 = TWO LAYERS, EACH SIDE
5 = TWO LAYERS TAG SIDE, NO GWB OTHER
6 = THREE LAYERS, EACH SIDE



WALL TYPE TAG

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REGISTERED ARCHITECT
JUSTIN A. ALEXANDER
23632
STATE OF TEXAS
12/31/2025

BOONE ELEMENTARY SCHOOL
ALIEF INDEPENDENT SCHOOL DISTRICT
11400 BISSONNET STREET
HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
10-31-25

REVISIONS

1	12-17-25	COH COMMENTS
2	01-13-26	TAS / COH COMMENTS
3	02-11-26	ISSUE FOR BID & PERMIT
ADD 3	02-25-26	ADD 3 - BID ADDENDA
ADD 4	04-06-26	OWNER VE

39-25156-00

DOOR & FRAME TYPE & SCHEDULE

A8.2

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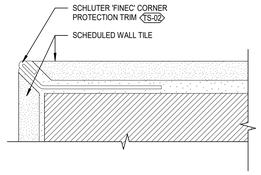
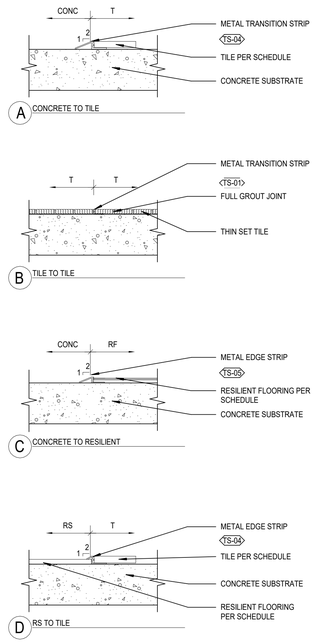
FINISH SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR/FINISH	SIZE	COMMENTS
093013 TILING, GROUT & METAL TRIM ACCESSORIES						
CT-01	CERAMIC TILE	DALTILE	COLOR WHEEL CLASSIC	MATTE DESERT GRAY X714	4X4	RESTROOM WALL TILE, WATER-RESISTANT GYPSUM BOARD SHALL BE USED AS A BASE FOR WALL TILE AS SPECIFIED.
CT-02	CERAMIC TILE	DALTILE	COLOR WHEEL CLASSIC	1194 ELECTRIC BLUE	4X4	RESTROOM ACCENT WALL TILE, WATER-RESISTANT GYPSUM BOARD SHALL BE USED AS A BASE FOR WALL TILE AS SPECIFIED.
G-01	GROUT	LATICRETE	PERMACOLOR	RAVEN 45		1/8" GROUT JOINT THICKNESS
PT-01	PORCELAIN TILE	DALTILE	COLOR WHEEL CLASSIC	MATTE CHARCOAL 0780	2X2	RESTROOM FLOOR TILE, CLASS A FOR ASTM E84 & CLASS II FOR MINIMUM CRITICAL RADIANT FLUX.
TS-1	METAL TRIM ACCESSORY	SCHLUTER	METAL COVE SHAPED TRIM - DILEX-AHK			AT BOTTOM OF WALL TILES
TS-2	METAL TRIM ACCESSORY	SCHLUTER	FINEC			AT OUTSIDE CORNER EDGES
099124 PAINTING						
P-01	CEILING PAINT	BENJAMIN MOORE	LOW VOC, PREMIUM PAINT	BABY'S BREATH CEILING, EGGSHELL FINISH		CLASS A FOR ASTM E84
P-02	WALL PAINT	BENJAMIN MOORE	LOW VOC, PREMIUM PAINT	DECORATOR'S WHITE CC-20, SEMI-GLOSS FINISH		CLASS A FOR ASTM E84
102100 TOILET COMPARTMENTS						
TC-01	TOILET COMPARTMENT	ASI PARTITIONS	SOLID PLASTIC (HDPE)	AZURE 9231		FLOOR ANCHORED, TOP BRACED, CLASS A FOR ASTM E84
PLASTIC LAMINATE LEGEND. SPEC SECTIONS: 064023, 064116, 123213, 123623.13						
PL-01	PLASTIC LAMINATE	WILSONART	MATCH EXISTING SIGNAGE			FOR ROOM SIGNAGE



2C A12.01 OUTER CORNER TILE TRANSITION
SCALE: 12" = 1'-0"



2D A12.01 FLOOR TRANSITION DETAILS
SCALE: 1 1/2" = 1'-0"

FINISH SCHEDULE GENERAL NOTES

A. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE ROOM FINISH SCHEDULE OR FINISH PLANS.
B. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
C. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
D. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
E. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
F. NOT USED.
G. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR.

DLRGROUP
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REGISTERED ARCHITECT JUSTIN A. LEE 23632 STATE OF TEXAS
12/31/2025

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FINISH SCHEDULES

A12.01

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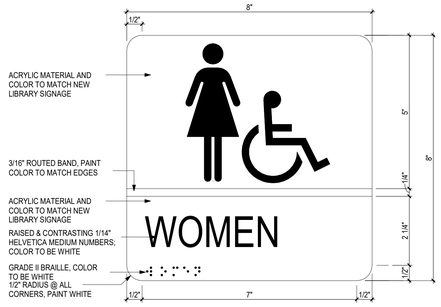
ROOM SIGN SCHEDULE				
CONSTRUCTION ROOM NUMBER (FOR CONSTRUCTION PURPOSES ONLY)	CONSTRUCTION ROOM NAME (FOR CONSTRUCTION PURPOSES ONLY)	ALIEF ISD ROOM SIGN NUMBER (FOR ROOM SIGNAGE INSTALLATION)	ALIEF ISD ROOM SIGN NAME (FOR ROOM SIGNAGE INSTALLATION)	SIGN TYPE
A170	BOYS			B
A173	GIRLS			A
A187	GIRLS			A
A190	BOYS			B

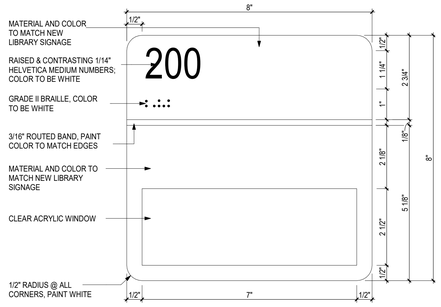
NOTE: ACTUAL ROOM NUMBERS AND ROOM NAMES TO BE PROVIDED AT LATER DATE. MATCH NEW SIGNAGE TO EXISTING SIGNAGE.



TYPE A (SHOWN) - WOMEN
TYPE B - MEN

SIGN TYPE A & B - TOILET SIGN

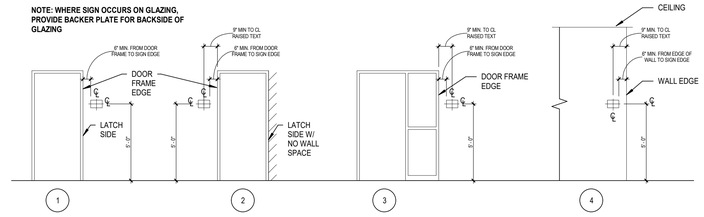
SCALE: 6" = 1'-0"

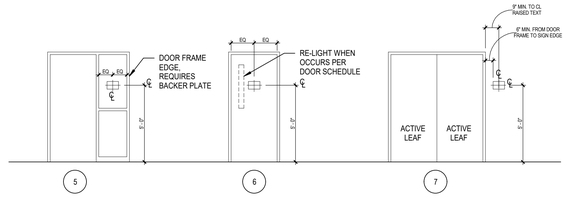


SIGN TYPE C - ADMIN SPACES

SCALE: 6" = 1'-0"

NOTE: WHERE SIGN OCCURS ON GLAZING, PROVIDE BACKER PLATE FOR BACKSIDE OF GLAZING





SIGN MOUNTING HEIGHTS

SCALE: 1/4" = 1'-0"

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12/31/2025

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SIGNAGE PLAN

A14.1

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ABBREVIATIONS

A

A	AIR (COMPRESSED)
ABV	ABOVE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT, AIR COMPRESSOR
ACCH	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR, AREA DRAIN
ADJ	ADJUSTABLE
AF	AIR FILTER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHRI	AIR-CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMB	AMBIENT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARCH	ARCHITECT, ARCHITECTURAL
AS	AIR SEPARATOR
ASHP	AIR SOURCE HEAT PUMP
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AVG	AVERAGE
AWS	AMERICAN WELDING SOCIETY
AUX	AUXILIARY

B

B	BOILER
BC	BELOW COUNTER
B/C	BACK OF CURB
BFF	BELOW FINISHED FLOOR
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BM	BENCHMARK
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BP	BACKFLOW PREVENTER
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE

C

C	CELSIUS
CAB	CABINET
CD	CONDENSATE DRAIN LINE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CH	CHILLER
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CHW	CHILLED WATER
CHWP	CHILLED WATER PUMP
CI	CAST IRON
CIRC	CIRCULATING
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESSOR
CONC	CONCRETE, CONCENTRIC
COND	CONDENSER, CONDENSATE
CONN	CONNECTION
CONT	CONTINUOUS,CONTINUATION
CTR	CENTER
CU	COPPER
CV	CONSTANT VOLUME

D

D	DEPTH, DRAIN, DRYER
DB	DRY BULB
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DDMB	DUAL DUCT MIXING BOX
DESIG	DESIGNATION
DTL	DETAIL
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DPR	DAMPER
DW	DISHWASHER
DWG	DRAWING
DX	DIRECT EXPANSION

E

EA	EACH
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
EDB	ENTERING DRY BULB
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EMERG	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETD	EXISTING TO BE DEMOLISHED
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORATOR
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EX	EXPLOSION PROOF
EXT	EXTERNAL
EXTG	EXISTING

F

F	FAHRENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCU	FAN COIL UNIT
FD	FLOOR DRAIN, FIRE DAMPER
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FPTU	FAN POWERED TERMINAL UNIT
FT	FOOT, FEET
FUT	FUTURE

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLV	GLOBE VALVE
GND	GROUND
GPM	GALLONS PER MINUTE
GUH	GAS UNIT HEATER
GV	GATE VALVE

H

HDT	HORIZONTAL DRAW THROUGH
HORIZ	HORIZONTAL
HP	HORSEPOWER, HEAT PUMP
HSTAT	HUMIDISTAT
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HWP	HEATING WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IH	INFRARED HEATER
IN	INCH
INSUL	INSULATION
INT	INTERNAL, INTERIOR

K

KEC	KITCHEN EQUIPMENT CONTRACTOR
KO	KNOCKOUT
KVA	KILOVOLT- AMPS
KW	KILOWATT

L

L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LF	LINEAR FEET
LP	LOW PRESSURE
LRA	LOCKED ROTOR AMPS
LVL	LEVEL
LWB	LEAVING WET BULB
LWCO	LOW WATER CUT OFF
LWT	LEAVING WATER TEMPERATURE

M

MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MI	MALLEABLE IRON
MIN	MINIMUM
MP	MEDIUM PRESSURE
MTD	MOUNTED
MU	MAKE-UP
MVD	MANUAL VOLUME DAMPER
MSAH	MINI-SPLIT AIR HANDLER
MSCU	MINI-SPLIT CONDENSING UNIT
MZ	MULTI-ZONE

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE

O

OA	OUTSIDE AIR
OAF	OUTSIDE AIR FAN
OAHU	OUTSIDE AIR HANDLING UNIT
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OFCU	OUTSIDE AIR FAN COIL UNIT
OPG	OPENING
OS&Y	OUTSIDE SCREW AND YOKE

P

PG	PRESSURE GAUGE
PP	POLYPROPYLENE
PPM	PART PER MILLION
PRI	PRIMARY
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE

Q

QTY	QUANTITY

R

RA	RETURN AIR
RAD	REFRIGERATED AIR DRYER
RAF	RETURN AIR FAN
RAG	RETURN AIR GRILLE
RAT	RETURN AIR TEMPERATURE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE	REFERENCE, REFER
RED	REDUCER
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION, REVISE
RH	RELATIVE HUMIDITY
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RLA	RUNNING LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SAG	SUPPLY AIR GRILLE
SAR	SUPPLY AIR REGISTER
SC	STEAM CONDENSATE
SCHED	SCHEDULED
SEC	SECONDARY
SECT	SECTION
SENS	SENSIBLE
SF	SQUARE FEET
SFCS	SPRINKLER FLOOR CONTROL STATION
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SM	SHEETMETAL
SP	STATIC PRESSURE, SUMP PUMP
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	STAINLESS STEEL
SSSC	SOLID STATE SPEED CONTROL
STD	STANDARD
STL	STEEL
STM	STEAM
STR	STRAINER
SURF	SURFACE
SUSP	SUSPEND
SV	SANITARY VENT
SW	SOFT WATER
SZ	SINGLE ZONE

T

TC	TEMPERATURE CONTROL
TDH	TOTAL DYNAMIC HEAD
TF	TRANSFER FAN
TH BLK	THRUST BLOCK
THERM	THERMOMETER
TMV	THERMOSTATIC MIXING VALVE
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TW	TEMPERED HOT WATER
TYP	TYPICAL

U

UCD	UNDER CUT DOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC
UNO	UNLESS NOTED OTHERWISE
U/F	UNDERFLOOR
U/S	UNDERSLAB

V

V	VOLT
VA	VOLT- AMPERE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VB	VALVE BOX, VACUUM BREAKER
VD	VOLUME DAMPER
VDT	VERTICAL DRAW THROUGH
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIB	VALVE IN BOX
VOV	VALVE ON VERTICAL
VP	VACUUM PUMP
VRF	VARIABLE REFRIGERANT FLOW
VVR	VARIABLE AIR VOLUME REHEAT

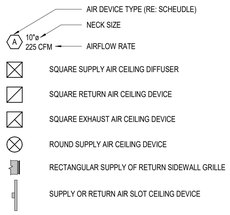
W

W	WATT, WIDTH
W/	WITH
W/O	WITHOUT
WB	WET BULB
WM	WATER METER
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WSHP	WATER SOURCE HEAT PUMP
WWF	WELDED WIRE FABRIC

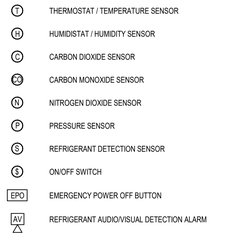
Z

Z	ZONE

AIR DEVICE TYPES



WALL MOUNTED SENSOR AND DEVICE TYPES



CONTROLS SCHEMATIC SYMBOLS LEGEND

AI	ANALOG INPUT	FS	FLOW SWITCH
AO	ANALOG OUTPUT	DAT	DISCHARGE AIR TEMPERATURE SENSOR
DI/BI	DIGITAL/BINARY INPUT	S	WALL SENSOR
DO/BO	DIGITAL/BINARY OUTPUT	T	THERMOSTAT
MD	ON-OFF MOTORIZED DAMPER	CO2	CARBON DIOXIDE SENSOR
MMD	MODULATING TYPE MOTORIZED DAMPER	SP	SET POINT
AFMS	AIR FLOW MEASURING STATION	S/A	SUPPLY AIR
MCV	CONTROL VALVE MODULATING TYPE	R/A	RETURN AIR
VFD	VARIABLE FREQUENCY DRIVE	O/A	OUTSIDE AIR
CSR	CURRENT SENSING RELAY	HC	HEATING COIL
FRZ	FREEZESTAT	CC	COOLING COIL
HSL	HIGH STATIC LIMIT	DX	DIRECT EXPANSION COOLING COIL
SPT	STATIC PRESSURE TRANSMITTER	PICCV	PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE
DPT	DIFFERENTIAL PRESSURE TRANSDUCER	AFC	AIRFLOW CROSS
FM	FLOW METER	DPS	DIFFERENTIAL PRESSURE SWITCH

PIPING TYPES

CD	CONDENSATE DRAIN LINE	REF	REFRIGERANT PIPING SIZED BY MFR.
CHS	CHILLED WATER SUPPLY	HPS	HIGH PRESSURE STEAM SUPPLY
CHR	CHILLED WATER RETURN	HPR	HIGH PRESSURE CONDENSATE RETURN
HWS	HOT WATER SUPPLY	LPS	LOW PRESSURE STEAM SUPPLY
HWR	HOT WATER RETURN	LPR	LOW PRESSURE CONDENSATE RETURN
CWS	CONDENSER WATER SUPPLY	PCR	PUMPED CONDENSATE RETURN
CWR	CONDENSER WATER RETURN		

DESIGN CRITERIA

LOCATION:
Houston, TX

DESIGN CONDITIONS:

HEATING DB:	31.4 °F (ASHRAE 99.6%)
COOLING DB / WB:	97.6 °F / 76.6 °F (ASHRAE 0.4%)
DEHUMIDIFICATION DP / DB:	78.3°F / 82.9 °F (ASHRAE 0.4%)

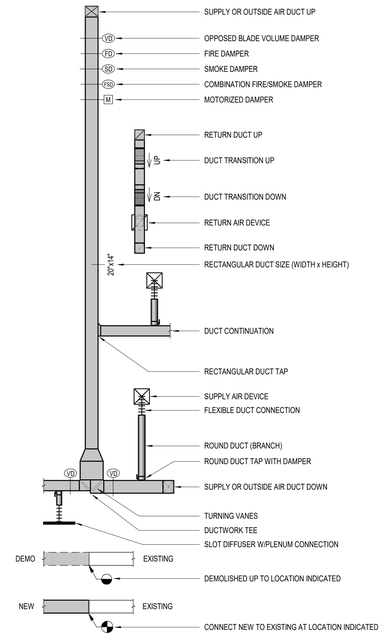
SPACE INDOOR DESIGN TEMPERATURE:

HEATING DB:	70 °F
COOLING DB:	75 °F
RELATIVE HUMIDITY	55%

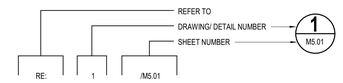
BUILDING CODES & STANDARDS

APPLICABLE CODES:
2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL FIRE CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL PLUMBING CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2021 INTERNATIONAL FUEL GAS CODE
2023 NATIONAL ELECTRICAL CODE

DUCTWORK



DRAWING/DETAIL REFERENCE KEY



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Project Number

MECHANICAL SYMBOL LEGEND

M0.01

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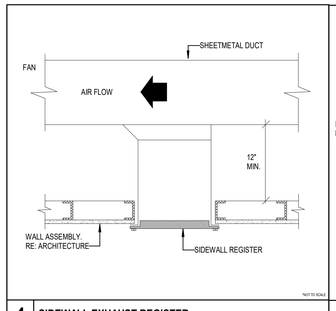
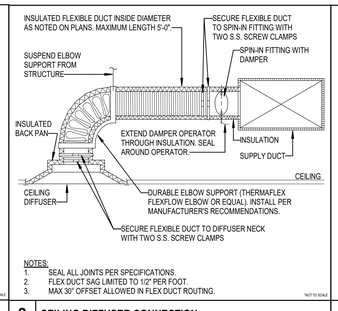
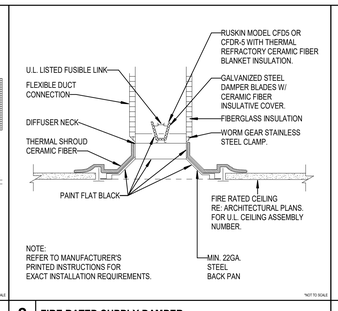


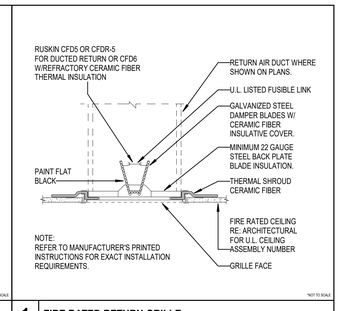
4 SIDEWALL EXHAUST REGISTER M1015



3 CEILING DIFFUSER CONNECTION M1015



2 FIRE RATED SUPPLY DAMPER M1015



1 FIRE RATED RETURN GRILLE M1015

DEMO/RENO MECHANICAL GENERAL NOTES

A. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR SCOPE OF DEMOLITION WORK. EXACT LOCATIONS, CONDITIONS, PHASING, CONSTRUCTION SCHEDULING, AND ANY ADDITIONAL DEMOLITION NOTES, REQUIREMENTS, ETC.

B. MECHANICAL DEMOLITION DRAWINGS ARE GENERALLY DIAGRAMMATIC AND IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT ALL MECHANICAL SYSTEMS SHALL REMAIN UNLESS NOTED TO BE REMOVED OR DEMOLISHED. VERIFY EXACT LOCATIONS AND CONDITIONS AND COORDINATE WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO REMOVING ANY EXISTING ITEMS. DO NOT ABANDON ANY ITEMS IN PLACE.

C. EQUIPMENT, DUCTWORK, PIPING, ETC. INDICATED AS EXISTING (E) SHALL REMAIN AND BE RE-USED IN EXISTING LOCATIONS. IF EXISTING ITEMS CONFLICT WITH NEW CONSTRUCTION, CONTRACTOR SHALL RELOCATE, REWORK, REROUTE, RECONNECT, AND REINSTALL COMPLETELY AS REQUIRED AS IF NEW AT NO ADDITIONAL COST. COORDINATE WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, ARCHITECT, ETC. PRIOR TO RELOCATION. REFER TO APPLICABLE NOTES FOR NEW ITEMS.

D. EQUIPMENT, DUCTWORK, PIPING ETC. INDICATED AS EXISTING TO BE DEMOLISHED (D) SHALL BE REMOVED IN THEIR ENTIRETY. ALL APPURTENANCES, RELATED COMPONENTS, INCLUDING ALL DUCTWORK, PIPING, SUPPORTS, HANGERS, CONTROLS, ETC. ASSOCIATED WITH EACH ITEM SHALL BE REMOVED UNLESS NOTED OTHERWISE. CAP ALL DUCTWORK AND PIPING AS REQUIRED SERVING EACH ITEM AT BUILDING MAINS. VERIFY EXACT LOCATIONS AND CONDITIONS AND COORDINATE WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO REMOVING ANY EXISTING ITEMS. DO NOT ABANDON ANY ITEMS IN PLACE.

E. WHERE CONSTRUCTION, EXISTING DUCTWORK, MECHANICAL / PLUMBING / FIRE SPRINKLER PIPING, ELECTRICAL CONDUIT, CABLING, ETC. WHICH MUST REMAIN AS PART OF AN ACTIVE SYSTEM CONFLICTS WITH NEW CONSTRUCTION, CONTRACTOR SHALL RELOCATE, REWORK, REROUTE, RECONNECT, AND REINSTALL COMPLETELY AS REQUIRED AS IF NEW AT NO ADDITIONAL COST. COORDINATE WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, ARCHITECT, ETC. PRIOR TO RELOCATION. REFER TO APPLICABLE NOTES FOR NEW ITEMS.

F. CONTRACTOR SHALL COORDINATE WITH EACH TRADE CONTRACTOR FOR REMOVAL OF EXISTING ELECTRICAL AND PLUMBING SERVICES INCLUDING ALL CONDUIT, WIRING, PIPING, INSULATION, APPURTENANCES, RELATED COMPONENTS, ETC. ASSOCIATED WITH REMOVAL OF EXISTING MECHANICAL EQUIPMENT. VERIFY EXACT LOCATIONS AND CONDITIONS AND COORDINATE WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO REMOVING ANY EXISTING ITEMS. DO NOT ABANDON ANY ITEMS IN PLACE.

G. THESE DRAWINGS WERE PREPARED FROM THE BEST INFORMATION AVAILABLE, ORIGINAL DRAWINGS, FIELD OBSERVATIONS, ETC., BUT MAY NOT INDICATE THE EXACT LOCATION OF ALL EXISTING MECHANICAL COMPONENTS. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE EXISTING CONDITIONS SURROUNDING THE INSTALLATION OF THEIR WORK PRIOR TO PROCEEDING WITH THE INSTALLATION. MODIFICATIONS REQUIRED DUE TO EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER / OWNER FOR REVIEW BY WAY OF SHOP DRAWINGS OR SKETCHES DETAILING THE EXISTING CONDITIONS AND THE PROPOSED REVISION.

H. CONTRACTOR SHALL BE RESPONSIBLE TO VISIT THE JOBSITE, COMPLETELY REVIEW CONTRACT DOCUMENTS, AND FIELD VERIFY EXTENT OF WORK AND EXACT LOCATIONS AND CONDITIONS OF ALL NEW AND EXISTING CONSTRUCTION, ELEVATIONS, SERVICE POINTS, ETC. AS REQUIRED FOR A COMPLETE AND CORRECTLY OPERATING SYSTEM. CONTACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, AND REPORT IN WRITING ANY CONFLICTS. PROBLEMS, OR ANY CONDITION THAT MAY ADVERSELY AFFECT THE PROPER EXECUTION OF THE WORK THAT IS NOT INDICATED ON THE DRAWINGS. THIS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR MAKING ANY CORRECTIONS OR ALTERATIONS DEEMED NECESSARY TO COMPLETE THE WORK AND SHALL INCLUDE ALL ASSOCIATED COSTS IN THEIR BID WITH NO ADDITIONAL EXPENSE.

I. CONTRACTOR SHALL COORDINATE ALL CUTTING AND PATCHING OF EXISTING WALLS, CEILINGS, ROOF AND FLOOR REQUIRED FOR THEIR WORK WITH GENERAL CONTRACTOR, STRUCTURAL ENGINEER, AND OWNER'S REPRESENTATIVE. ALL PENETRATIONS SHALL BE SEALED AND RESTORED TO THE ORIGINAL CONDITIONS, STRUCTURAL PROPERTIES, AND FINISHED IN SAME MATERIALS AND MANNER AS ADJACENT AREAS. ALL ROOF PENETRATIONS, ROOF PIPE SUPPORTS, FLASHINGS, ETC. SHALL BE MADE WATERTIGHT AND AS RECOMMENDED BY THE ROOF MANUFACTURER. ALL EXISTING PENETRATIONS WHICH ARE NOT TO BE REUSED SHALL BE PROPERLY SEALED OFF TO MAINTAIN THE STRUCTURAL, WATERPROOF, AND FIREPROOF INTEGRITY OF THE WALL, FLOOR, OR ROOF SYSTEM PENETRATED.

J. COORDINATE ALL RENOVATIONS / REMODEL / DEMOLITION WORK WITH THE OWNER'S REPRESENTATIVE, BUILDING ENGINEER / MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT, FIXTURES, OR SYSTEMS THAT WILL AFFECT OTHER SYSTEM WITHIN THE AREA OF CONSTRUCTION, OR OTHER AREAS OF THE BUILDING. CONTRACTOR SHALL NOTE THAT THE BUILDING IS OCCUPIED, AND WILL REMAIN SO DURING CONSTRUCTION, AND, THEREFORE, UTILITIES / BUILDING SYSTEMS MUST REMAIN IN OPERATION. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE AND BUILDING ENGINEER / MAINTENANCE PERSONNEL. PROVIDE TEMPORARY CONNECTIONS OF UTILITIES AND AIR CONDITIONING AS NECESSARY TO FACILITATE THE PHASING OF CONSTRUCTION.

K. ALL WORK SHALL BE SCHEDULED AND PERFORMED IN STRICT COORDINATION WITH CONSTRUCTION PHASING AND WITH OWNERS' SCHEDULES, OCCUPANCIES, ETC. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK, PIPING, ETC. AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE.

L. PRIOR TO THE REMOVAL OF ANY MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT, FIXTURES, OR SYSTEMS, THE CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEM AND CONFIRM THAT THE ITEMS BEING REMOVED DO NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE CONTRACT LIMITS). WHEN RENOVATION / REMODEL / DEMOLITION WORK IS PERFORMED, THE CONTRACTOR SHALL EXERCISE CARE IN PROTECTING EXISTING ITEMS TO REMAIN AND EXISTING ITEMS TO BE REMOVED AND RELOCATED. PROTECT ALL EXISTING BUILDING COMPONENTS, WALLS, FLOORS, FINISHES, FURNISHINGS, ADJACENT EQUIPMENT, LIGHTING, ETC. ANY ITEMS DAMAGED OR WHERE FINISHES HAVE BEEN MARRED, SHALL BE REPAIRED AND REFINISHED TO ORIGINAL CONDITION AT NO COST TO THE OWNER. ALL ITEMS SOILED IN THE PROGRESS OF THE WORK SHALL BE CLEANED TO THEIR PRE- EXISTING CONDITIONS.

M. ALL EXISTING EQUIPMENT REMOVED SHALL BE PROTECTED FROM DAMAGE IN SO FAR AS PRACTICAL. THESE ITEMS SHALL BE STORED ON SITE FOR A MINIMUM OF TWO (2) WEEKS UNLESS INDICTED OTHERWISE BY THE OWNER'S REPRESENTATIVE TO ALLOW INSPECTION BY THE OWNER. ALL ITEMS RETAINED BY THE OWNER SHALL BE TAGGED AND STORED ON SITE UNTIL DIRECTED OTHERWISE BY OWNER. ALL ITEMS NOT RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND DISPOSED OF PROPERLY.

N. REWORK AND REPAIR ALL DUCTWORK AND PIPING INSULATION DAMAGED OR REMOVED DURING RENOVATION / REMODEL / DEMOLITION AS REQUIRED TO MATCH EXISTING.

O. EQUIPMENT INGRESS AND EGRESS ROUTES FOR THE RENOVATION WORK SHALL BE COORDINATED WITH THE OWNER. COORDINATE TIMES, DATES, AND DURATIONS WITH OWNER A MINIMUM OF 2 WEEKS IN ADVANCE TO ENSURE THERE ARE NO CONFLICTS IN USAGE OF EQUIPMENT/SPACES.

P. ALL EXISTING EQUIPMENT THAT INCLUDES A REFRIGERATION CIRCUIT THAT IS TO BE DEMOLISHED OR RELOCATED SHALL HAVE THE REFRIGERANT CHARGE RECOVERED PRIOR TO DEMOLITION OR RELOCATION. REFRIGERANT RECOVERY SHALL COMPLY WITH EPA, STATE, AND LOCAL JURISDICTION REQUIREMENTS. RECOVERED REFRIGERANTS SHALL NOT BE USED IN ANY SYSTEM, NEW OR EXISTING, UNLESS THE REFRIGERANT HAS BEEN RECLAIMED AND FOUND TO MEET THE PURITY REQUIREMENTS OF AHRI 700.

Q. EXISTING EQUIPMENT BEING RELOCATED SHALL BE VERIFIED TO BE IN PROPER OPERATING CONDITION PRIOR TO EQUIPMENT RELOCATION. VERIFICATION SHALL BE PERFORMED BY EQUIPMENT MANUFACTURER'S AUTHORIZED SERVICE REPRESENTATIVE. IF EXISTING EQUIPMENT IS FOUND TO BE DEFICIENT, THE SERVICE REPRESENTATIVE SHALL NOTIFY THE ENGINEER AND OWNER AND PROVIDE RECOMMENDATIONS TO RESTORE EQUIPMENT TO PROPER OPERATING CONDITION.

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MECHANICAL GENERAL NOTES & DETAILS

M0.11

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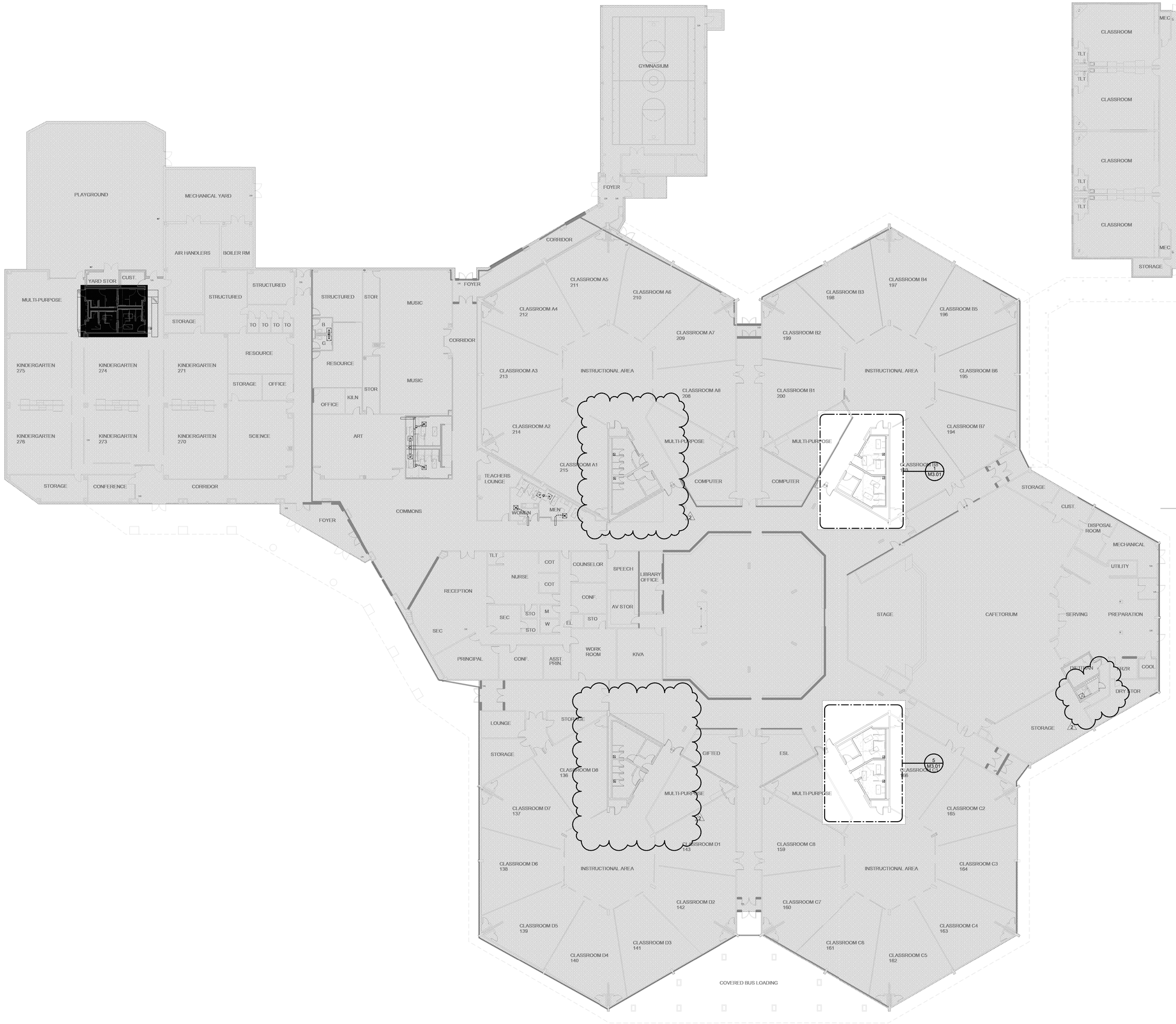

1 LEVEL 01 - MECHANICAL PLAN

1/16" = 1'-0"

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LEVEL 01 - MECHANICAL PLAN

M2.11

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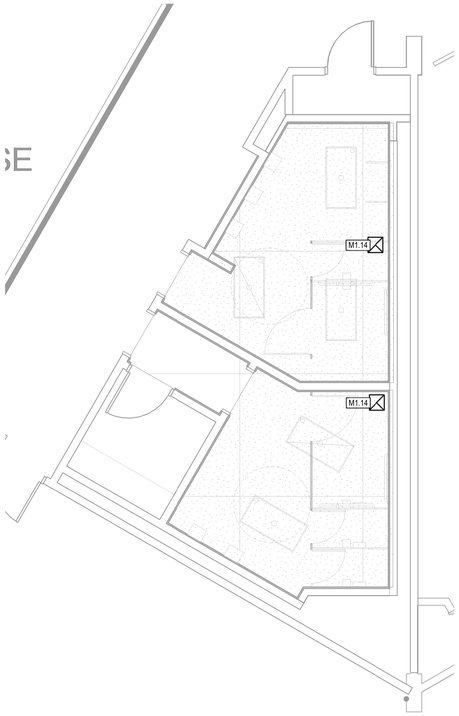
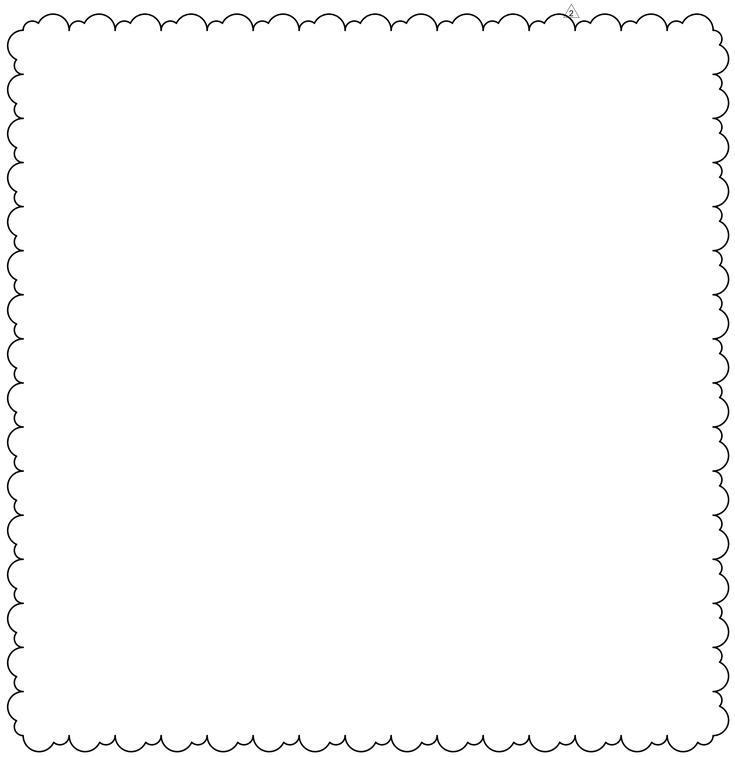
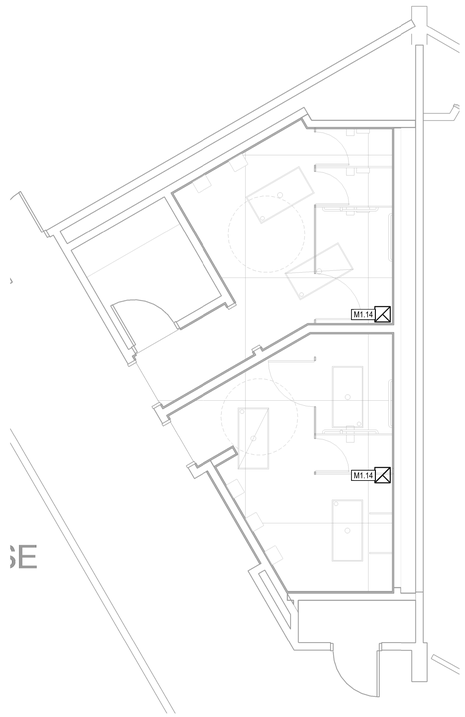
MECHANICAL KEYED NOTES

M1.14 MECHANICAL CONTRACTOR SHALL REPLACE EXISTING EXHAUST AIR GRILLE IN RESTROOM AREA TO NEW LOCATION SHOWN. PROVIDE NECESSARY TRANSITION TO CONNECT NEW 1'X1' GRILLE TO EXISTING DUCTWORK. SEAL AIR TIGHT. COORDINATE GRILLE LOCATION WITH LIGHTING. BASIS OF DESIGN: MODEL TITUS TDC-AA. COORDINATE WITH ARCHITECT FOR FINISH/COLOR.



1 **LEVEL 01 - MECHANICAL PLAN - INSTRUCTIONAL AREA NE RESTROOMS**
1/4" = 1'-0"





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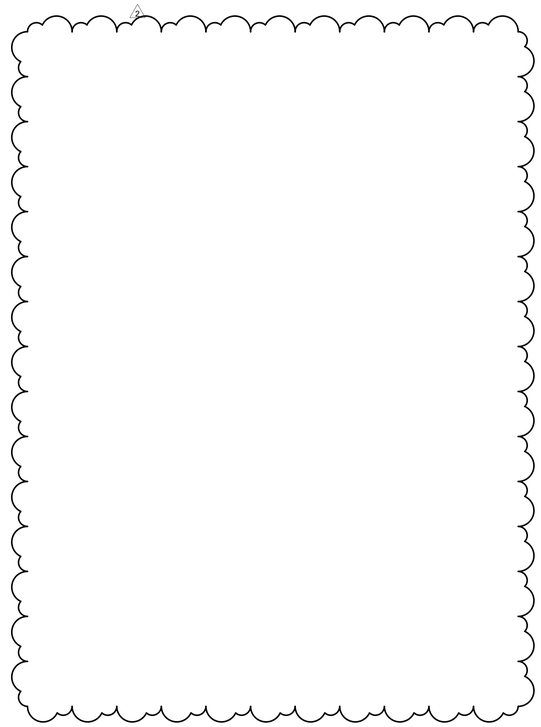
1/4" = 1'-0"



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LEVEL 01 - MECHANICAL PLAN - ENLARGED

M3.01

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ABBREVIATIONS

AC	ALTERNATING CURRENT
AF	AMPERE FUSE, AMPERE FRAME
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPT CAPACITY
AL	ALUMINUM
AM	AMMETER
AMP	AMPLIFIER
ANN	ANNUNCIATOR
ASC	AMPERES SHORT CIRCUIT
AT	AMPERE TRIP RATING
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
BKR	BREAKER
BLDG.	BUILDING
C	CONDUIT, CELSIUS
CKT	CIRCUIT
CLG.	CEILING
CONT.	CONTINUOUS,CONTINUATION
CONTR	CONTROLLER, CONTRACTOR
CT	CURRENT TRANSFORMER/COOLING TOWER
CU	COPPER
DAS	DISTRIBUTED ANTENNA SYSTEM
DC	DIRECT CURRENT
DISC	DISCONNECT
DP	DISTRIBUTION PANEL
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DWG	DRAWING
ELEV.	ELEVATOR
EPO	EMERGENCY POWER OFF
ERRC	EMERGENCY RESPONDER RADIO COVERAGE SYSTEM
FA	FIRE ALARM
FF	FURNITURE FIRE FEED
FLA	FULL LOAD AMPS
FTL	FEED-THRU LUGS
GA	GAUGE
GEN	GENERATOR
GND	GROUND
GTD	GENERATOR TRANSFER DEVICE
IG	ISOLATED GROUND
LF	LINEAR FEET
LTG	LIGHTING
LV	LOW VOLTAGE
LVL	LEVEL
MAX.	MAXIMUM
MC	METAL CLAD CABLE
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCCB	MOLDED CASE CIRCUIT BREAKER
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MIC	MICROPHONE
MIN.	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MSB	MAIN SWITCHBOARD
N3R	NEMA 3R
N4X	NEMA 4X
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NFS	NON-FUSED SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE
PH	PHASE
POS	POINT OF SALE
QTY	QUANTITY
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
RE	REFERENCE, REFER
SF	SQUARE FOOT
SIM	SIMILAR
SKVA	STARTING KILOVOLT-AMPS
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE-POLE, DOUBLE-THROW
SPST	SINGLE-POLE, SINGLE-THROW
SPEC	SPECIFICATION
SQFT	SQUARE FOOT
ST	SHUNT TRIP
SWB	SWITCHBOARD
TL	TWIST-LOCK
TOC	TOP OF CURB
TOS	TOP OF STEEL
TR	TAMPER RESISTANT RECEPTACLE
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SYSTEM
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF
WT	WATERTIGHT, WEIGHT
W/SF	WATTS PER SQUARE FOOT
XFMR	TRANSFORMER

MANY ABBREVIATIONS NOT LISTED MAY BE FOUND IN THE NATIONAL ELECTRIC CODE, OR IN THE INTERNATIONAL AND UNIFORM CODES

PHASING

(E)	EXISTING (TO REMAIN)
(D)	SHALL BE DEMOLISHED
(N)	PROVIDE NEW
(R)	RELOCATED ELEMENT

ELECTRICAL SYMBOLS

MOTORS AND CONTROLS

- MOTOR RATED SWITCH WITH THERMAL OVERLOADS
- SINGLE OR THREE PHASE MOTOR NUMBER INDICATES HORSE POWER
- ELECTRIC DUCT HEATER
- DISCONNECT (SAFETY) SWITCH "200/3/150" DENOTES AMPERES/POLE/FUSE, "NF" DENOTES NON-FUSED "N3R" DENOTES NEMA 3R
- ENCLOSED CIRCUIT BREAKER- "200/3/150" DENOTES AMPERES/POLE/TRIP.
- MOTOR STARTER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER. "30/3/15/80" DENOTES AMPERES/POLES/FUSE/ STARTER SIZE. "NF" DENOTES NON-FUSED. FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- VFD — VARIABLE FREQUENCY DRIVE PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- EPO — EMERGENCY POWER OFF BUTTON.

RECEPTACLES AND OUTLETS

ALL RECEPTACLES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS.

ABBREVIATIONS APPLICABLE TO RECEPTACLES:
- "GFCI" GROUND FAULT INTERRUPTER
- "WP" WEATHERPROOF
- "IG" ISOLATED GROUND
- "TR" TAMPER RESISTANT
- "USB" RECEPTACLE WITH USB CHARGING PORTS
- "AC" ABOVE COUNTER MOUNTING
- "UC" UNDER COUNTER MOUNTING
- "H" HORIZONTALLY ORIENTED RECEPTACLE

- SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.
- DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V. SHADED INDICATES SPLIT-WIRED
- FOURPLEX (QUADRUPLEX) RECEPTACLE
- DUPLEX RECEPTACLE (PEDESTAL MOUNTED)
- CONTROLLED WALL RECEPTACLE. DUPLEX: SPLIT-WIRED QUAD: SEPARATELY WIRED UNDER A COMMON COVERPLATE.
- POWER DEVICE RED IN COLOR, ON EMERGENCY POWER CIRCUIT
- CEILING RECEPTACLE/QUAD, EMERGENCY POWER SYMBOL MAY APPLY
- SPECIAL RECEPTACLE, NEMA CONFIGURATION PER PLAN OR EQUIPMENT
- TV — TV ROUGH-IN: 3-GANG RECESSED TV BOX, CONTAINING 1 DUPLEX RECEPTACLE, 1 GANG FOR A/V, 1 GANG FOR DATA
- FLOOR BOX OR POKE THRU. POKE-THRU'S WHERE IN SUSPENDED SLABS, RECESSED IN FOUNDATION WHERE SLAB ON GRADE
- FLUSH ELECTRICAL FLOOR OUTLET. REFER TO FLOOR BOX SCHEDULE, FIRE RATED POKE-THROUGH SCHEDULE AND KEYED NOTES.
- DC — DROP CORD WITH SIMPLEX RECEPTACLE UNLESS OTHERWISE NOTED
- CR — CORD REEL WITH DUPLEX RECEPTACLE UNLESS OTHERWISE NOTED
- J — JUNCTION BOX
  - "MD" INDICATES POWER CONNECTION TO SERVE MOTOR DAMPER
  - "HD" INDICATES POWER CONNECTION TO SERVE HAND DRYER
  - "FV" INDICATES POWER CONNECTION TO SERVE FLUSH VALVES
- P — PULL BOX (OVER 4" SQUARE)
- BELL/BUZZER/CHIME
- PUSH BUTTON/DOOR BELL/START-STOP
- PP — POWER POLE
- POINT OF DIRECT CONNECTION TO EQUIPMENT
- C (2) — CLOCK RECEPTACLE SHALL BE MOUNTED 12" BELOW FINISHED CEILING. (2) DENOTES DOUBLE SIDED CLOCK.

LIGHTING

LETTER(S) DENOTE TYPE- SEE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

2' X 4' | 2' X 2' | 1' X 4' | 1' X 2' | 1' X 1'

- STRIP LIGHTING FIXTURES.
- ROUND DOWNLIGHT FIXTURE.
- SQUARE DOWNLIGHT FIXTURE.
- WALL MOUNTED LIGHTING FIXTURE.
- TRACK LIGHTING FIXTURE. MOUNTED AS SHOWN ON LIGHTING FIXTURE SCHEDULE.
- CEILING MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- WALL MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- EMERGENCY WALL MOUNTED LIGHTING FIXTURE. BATTERY OPERATED UNLESS NOTED OTHERWISE.
- SITE LIGHTING FIXTURE.

HATCHING PATTERNS BELOW SHALL APPLY TO ALL LIGHTING FIXTURE SYMBOLS.

- NL — EMERGENCY LIGHT FIXTURE WITH BATTERY PACK. PROVIDE WITH UNSWITCHED HOT FOR LOSS OF VOLTAGE AND CHARGING (SAME CIRCUIT AS NORMAL POWER LIGHTING). FIXTURES SHALL BE WIRED IN A MANNER AS TO ALLOW SWITCHING OF FIXTURES WITHOUT DISCHARGING THE EMERGENCY BATTERY. BATTERY PACK IS TO ONLY OPERATE IN THE EVENT OF A POWER OUTAGE.
  "NL" NIGHT LIGHT ON UNSWITCHED 24HR OPERATION
- EM CIRCUIT — LIGHT FIXTURE ON LIFE SAFETY BRANCH CIRCUIT. GENERATOR TRANSFER DEVICES REQUIRED (UL1008 OR UL924) PROVIDE UNSWITCHED HOT, NEUTRAL AND GROUND FOR ALL LIFE SAFETY LIGHTING ORIGINATING FROM THE LIFE SAFETY CIRCUIT SHOWN.
- CRITICAL OPERATIONS LIGHTING ORIGINATING FROM THE CRITICAL CIRCUIT INDICATED. HATCHED AS INDICATED. HATCHING TYPICAL FOR ALL CRITICAL BRANCH LIGHT FIXTURES

RACEWAYS AND WIRING

- CAP AND STAKE
- CONDUIT CONCEALED IN WALL OR CEILING
- UNDERGROUND, UNDERSLAB, CONCEALED ROUTING
- OHE — OVERHEAD ELECTRIC PRIMARY UTILITY POWER LINE
- CONDUIT UP/DOWN
- HASH MARKS INDICATE NUMBER OF CONDUCTORS. LEFT TO RIGHT: PHASE/NEUTRAL/GROUND/ISOLATED GROUND. NO HASH MARKS INDICATES EMPTY CONDUIT, 1" MINIMUM, UNLESS NOTED OTHERWISE.
- 1LA-2,4,6 — HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED.
- (ON)1LA-6 — PARTIAL/SHARED CIRCUIT HOMERUN TO PANEL.
- TELECOMMUNICATIONS CABLE TRAY SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.

ELECTRICAL EQUIPMENT

- DISTRIBUTION PANEL
- MSB — SWITCHBOARD, MAIN DISTRIBUTION PANEL OR MOTOR CONTROL CENTER
- PANELBOARD (FLUSH/SURFACE MOUNT)
- FLOOR MOUNTED DRY-TYPE TRANSFORMER
- SUSPENDED OR WALL MOUNTED TRANSFORMER
- ATS — AUTOMATIC TRANSFER SWITCH
- FIRE RATED PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4' X 8' X 3/4" UNLESS NOTED OTHERWISE

COMMUNICATIONS

DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 18" ABOVE FINISHED FLOOR (AFF)

- DATA/COMM/AV ROUGH-IN. CONDUIT TO PLENUM AND BOX ONLY
- HS DS — SCHOOL INTERCOMMUNICATION SYSTEM HANDSET.

DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 42" AFF

- VC — VOLUME CONTROL - WALL MOUNTED
- CB — INTERCOM/PA SYSTEM CALL-IN OR CALL-BACK DEVICE

DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 120" AFF OR 12" BELOW CEILING, WHICHEVER IS LOWER

- S L — INTERCOM/PA SPEAKER "L" LOCAL SOUND REINFORCEMENT

CEILING MOUNTED DEVICES:

- S VC — INTERCOM/PA SPEAKER "VC" INDICATES VOLUME CONTROL ON SPEAKER.

REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

ONE-LINE DIAGRAM

- TRANSFORMER, TYPE AND RATINGS AS NOTED
- 800A/3P — SWITCH, RATING AS SHOWN
- 400A — FUSE, RATING AS SHOWN
- ST — SHUNT TRIP
- GFP — GROUND FAULT PROTECTION
- K — KIRK-KEY INTERLOCK
- M — DIGITAL METER OR SUB-METER INTEGRATED INTO EQUIPMENT
- 1200/5 — CURRENT TRANSFORMER, RATED AS SHOWN
- GROUND CONNECTION
- AUTOMATIC TRANSFER SWITCH
- BUS DUCT PLUG
- M — ELECTRICAL UTILITY REVENUE METER
- SPD — SURGE PROTECTION DEVICE
- GANN — GENERATOR ANNUNCIATOR PANEL
- CIRCUIT BREAKER
- DRAW-OUT CIRCUIT BREAKER
- NEW EQUIPMENT/WIRING
- DEMOLITION EQUIPMENT/WIRING
- EXISTING EQUIPMENT/WIRING
- UNDERGROUND WIRING

DAYLIGHT ZONES

DAYLIGHT ZONE/PRIMARY | SECONDARY DAYLIGHT ZONE

DAYLIGHT ZONES SHALL BE INCLUSIVE OF THE FIXTURES WITHIN THE SHADED REGION, AND SHALL BE DIMMED USING ON-BOARD OR EXTERNAL CONTROL IN ACCORDANCE WITH IECC 2021. IECC 2018 OR 2015 MAY BE REFERENCED ONLY WHERE ADOPTED BY LOCAL AHJ.

GENERAL NOTES:

A. NOT ALL SYMBOLS SHOWN ON THIS SYMBOL LIST ARE USED IN THE CONTRACT DOCUMENTS.

MISCELLANEOUS

- F — SHADED SYMBOLS INDICATE EXISTING DEVICES TO REMAIN, UNLESS OTHERWISE NOTED.
- INDICATES WALL-MOUNTED WHEN ATTACHED TO ANY SYMBOL
- 1 — DRAWING NOTE REFERENCE
- SOS — AREA OF RESCUE ASSISTANCE

FIRE ALARM

- W — WATER FLOW SWITCH
- SP — SUPERVISORY SWITCH
- S — SMOKE DETECTOR - MULTI CRITERIA DETECTOR
- S # — SMOKE DETECTOR - "SB" INDICATES IN INTEGRAL SOUNDER BASE "D" INDICATES DUCT TYPE "R" INDICATES 120 VOLT RESIDENTIAL TYPE
- H — HEAT DETECTOR
- S BT — BEAM DETECTOR TRANSMITTER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
- S BR — BEAM DETECTOR RECEIVER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
- S — FIRE ALARM SPEAKER STROBE / CEILING MOUNTED
- S — FIRE ALARM SPEAKER / CEILING MOUNT.
- DH — MAGNETIC DOOR HOLDER
- R — AUXILIARY CONTROL RELAY
- FH — FIRE FIGHTER HANDSET
- F — FIRE ALARM PULL STATION +42" AFF
- F — FIREMAN'S TELEPHONE JACK +42" AFF
- AUDIO VISUAL FIRE ALARM HORN STROBE +80" AFF- 15/75cd U.N.O.
- VISUAL FIRE ALARM (STROBE) CEILING MOUNT - 15/75cd U.N.O.
- AUDIO FIRE ALARM HORN +80" AFF
- FACP — FIRE ALARM CONTROL PANEL
- ANN — REMOTE FIRE ALARM ANNUNCIATOR PANEL
- RPS — REMOTE POWER SUPPLY FOR AUDIO/VISUAL FIRE ALARM DEVICES.
- FSD — FIRE SMOKE DAMPER
- REMOTE LED INDICATOR LIGHT

SECURITY

- PB — ADA AUTO DOOR OPEN BUTTON
- DR — DOOR RELEASE BUTTON
- CR — WALL MOUNTED CARD READER

REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

SWITCHES AND LIGHTING CONTROL DEVICES

ALL SWITCH TYPES AND SENSORS TYPES FOUND ON 'LIGHTING CONTROL DEVICE SCHEDULE' LOCATED ON ELECTRICAL SCHEDULE SHEETS

SWITCH ANNOTATION AS FOLLOWS:
- X — TYPE, PER SCHEDULE; NO TYPE INDICATES SINGLE POLE TOGGLE SWITCH
- $a,b,c — SWITCH LEGS, PER PLAN, SHOWN HERE AS 3 (a,b,c)

OCCUPANCY SENSOR ANNOTATION, AS FOLLOWS:
- OCx — OCCUPANCY / VACANCE SENSOR 'x' INDICATES TYPE, PER SCHEDULE
  - CEILING SENSOR
  - WITH BRACKET INDICATES WALL / CORNER MOUNT

LIGHT SENSOR ANNOTATION, AS FOLLOWS:
- PC — DIGITAL PHOTOCELL
- DS — DAYLIGHT HARVESTING SENSOR

RELAY PANELS, CONTACTORS, TIME SWITCHES:
- XX — RELAYS/CONTACTORS/TIMERS/DEVICES WHERE 'XX' INDICATES:
  - "LC" LIGHTING CONTRACTOR
  - "LCP" LIGHTING CONTROL PANEL
  - "TS" TIME SWITCH
  - "TC" TIME CLOCK

DRAWING/DETAIL REFERENCE KEY

RE: 1 /E3-2 — REFER TO DRAWING/DETAIL NUMBER; SHEET NUMBER (1 / E3-2)

PANELBOARD NOMENCLATURE

5 DP C H A 1
- 1 — SUB PANEL
- A — AREA
- H — VOLTAGE: H: 480Y/277V; L: 208Y/120V
- C — BRANCH: NONE: NORMAL; E: LIFE SAFETY; O: EQUIPMENT; C: CRITICAL; R: LEGALLY REQUIRED; X: OPTIONAL STAND-BY
- DP — DISTRIBUTION PANEL (IF APPLICABLE)
- 5 — LEVEL

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ELECTRICAL SYMBOL LEGEND

E0.01

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GENERAL LIGHTING DEMOLITION NOTES:

A. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRESENT ON SITE PRIOR TO BIDDING, AND SHALL BE EXPECTED TO PERFORM DEMOLITION AND INSTALL NEW AS SHOWN ON THE DOCUMENTS, INCLUDING SCOPE THAT MAY NOT FEASIBLY BE INDICATED ON PLAN.

B. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING ELECTRICAL DEVICES ON EXISTING CEILING. ALL ABANDONED DEVICES IN CEILING WITHIN SCOPE OF WORK SHALL BE REMOVED.

C. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL TO ALL REMOVED MATERIALS. CONTRACTOR SHALL COORDINATE WITH OWNER FOR LOCATION TO RETURN ANY AND ALL MATERIAL FOR OWNER STORAGE. FAILURE TO TURN OVER REMOVED MATERIAL TO OWNER MAY REQUIRE CONTRACTOR TO REPLACE EQUIPMENT REMOVED WITH NEW.

D. REMOVE ALL ELECTRICAL DEVICES WITHIN DEMOLISHED WALLS INCLUDING SWITCHES AND FIRE ALARM DEVICES. REFER TO ARCHITECTURAL DEMO PLAN. THIS SCOPE MAY NOT BE DIRECTLY IMPLIED BY NOTES ON DEMO PLANS AS IT IS ASSUMED THIS SCOPE EXISTS BASED ON ARCHITECTURAL DEMOLITION PLANS.

E. CONTRACTOR SHALL REVIEW DEMO AND NEW WORK PLANS SIMULTANEOUSLY TO IDENTIFY SCOPE THAT IS TO BE MODIFIED FOR REUSE WITH NEW SCOPE.

F. ALL FIXTURES REMOVED AND REINSTALLED SHALL BE CLEANED, RE-LAMPED AS REQUIRED AND TOUCHED UP WITH PAINT. ALL DAMAGED PARTS MUST BE REPLACED. THE FIXTURES SHALL THEN BE REINSTALLED AS REQUIRED. PROVIDE NEW DRIVERS AS REQUIRED. ALL EXISTING SWITCHING ZONES SHALL REMAIN UNCHANGED UNLESS DIRECTED OTHER ON PLANS.

G. ALL LIGHTING CIRCUITS SHALL BE DEMOLISHED AS REQUIRED BY THE DEMOLITION SCOPE ON THE DOCUMENTS. REPAIR ANY CIRCUITS THAT ARE PARTIALLY DEMOLISHED AND CONTAIN OUTLETS THAT ARE 'NOT IN SCOPE' OR OUTSIDE OF THE LIMITS OF CONSTRUCTION TO WORKING CONDITION. PROVIDE ADDITIONAL CONDUIT, WIRE AND BOXES AS NEEDED.

H. MODIFIED LIGHTING CIRCUITS SHALL NOT EXCEED 50% CIRCUIT LOAD BASED ON CIRCUIT AMPACITY.

GENERAL POWER DEMOLITION NOTES:

A. EXISTING CIRCUIT BREAKERS VACATED DUE TO REMODELING WORK SHALL REMAIN AS SPARE BREAKERS AND LEFT IN THE 'OFF' POSITION.

B. WHERE INDICATED OR REQUIRED BY OTHER TRADES, CONTRACTOR SHALL REMOVE ALL ELECTRICAL CONNECTIONS TO EXISTING PRE-WIRED FURNITURE. REMOVE CONDUIT AND WIRING BACK TO LAST ACTIVE JUNCTION. ALL DATA CABLING SHALL BE REMOVED.

C. CONTRACTOR SHALL REPORT ANY DAMAGED DEVICES THAT ARE SHOWN AS EXISTING TO REMAIN. ALL DEVICES FOUND TO BE DAMAGED AT THE TIME OF SUBSTANTIAL COMPLETION THAT NOT REPORTED PRIOR TO STARTING WORK SHALL BE REPLACED AT THE CONTRACTOR'S COST.

D. DEMOLISHED POKE-THRUS SHALL BE DISCONNECTED FROM EXISTING BRANCH CIRCUIT, DATA AND/OR AV CONDUCTORS. CAP WITH A UL LISTED FIRE RATED POKE-THRU COVER.

E. EXISTING RECEPTACLE OR MECHANICAL CIRCUITS MODIFIED IN FIELD SHALL NOT EXCEED 80% CAPACITY BASED ON AMP-RATING OF CIRCUIT.

FIRE ALARM REMODELING NOTES:

A. CONTRACTORS ARE RESPONSIBLE FOR VISITING THE SITE AND VERIFYING THE EXISTING FIRE ALARM SYSTEM AND SCOPE OF WORKED REQUIRED PER PLANS AND SPECIFICATIONS, PRIOR TO BIDDING. VERIFY EXISTING SITE CONDITIONS, MAKE AND MODEL OF CURRENT FIRE ALARM SYSTEM, NECESSITY OF ANY FRONT-END UPGRADES, CODE COMPLIANCE OF EXISTING DEVICES LOCATED WITHIN THE SCOPE OF WORK AREA, TO BE KNOWN BY FIRE ALARM CONTRACTOR UPON DESIGN OF FIRE ALARM SHOP DRAWINGS.

B. THE INTENT OF THIS PLAN IS TO INCORPORATE NEW AND RELOCATED DEVICES WITH THE EXISTING BUILDING FIRE ALARM SYSTEM.

C. ALL NOTIFICATION DEVICES SHALL BE ACTIVATED AS REQUIRED BY APPLICABLE CODE WHEN FIRE ALARM SYSTEM IS INITIATED.

D. IT IS ASSUMED WITH THIS REMODEL THAT THE EXISTING SYSTEM MEETS REQUIRED CODES FOR THE ORIGINAL DATE OF INSTALLATION, AND BUILDING MANAGEMENT HAS MAINTAINED SYSTEM IN COMPLIANCE WITH LIFE SAFETY 101. FOR SEQUENCE OF OPERATIONS AND SPECIFICATIONS, REFER TO ORIGINAL SYSTEM DOCUMENT. COORDINATE WITH BUILDING MANAGEMENT.

E. THE EQUIPMENT SUPPLIER AND INSTALLING CONTRACTOR SHALL BE LICENSED BY THE STATE FIRE MARSHALL TO SELL, INSTALL AND SERVICE FIRE ALARM SYSTEMS AS REQUIRED BY LOCAL CODES AND INSURANCE CODE.

F. ALL NEW EQUIPMENT REQUIRED FOR THIS REMODEL SHALL BE COMPATIBLE WITH THE EXISTING BUILDING SYSTEM AND IS TO BE A PART OF THE SUBMITTAL PROCESS AS NOTED IN THE ELECTRICAL SPECIFICATIONS FOR THIS PROJECT. PROVIDE ADDITION SYSTEM POWER BOOSTER WHERE REQUIRED.

G. VERIFY QUANTITIES OF NEW DEVICES TO INTERFACE WITH THE EXISTING BUILDING SYSTEM. THE CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGEMENT AND SHALL NOTIFY THE ENGINEER IF ANY CONFLICT EXISTS PREVENTING MODIFICATIONS REQUIRED IN THESE PLANS.

H. THE SYSTEM WHEN MODIFIED, SHALL BE A COMPLETE AND WORKING SYSTEM, AND COMPLY WITH THE MOST RECENT RULES, REGULATIONS, AND ORDINANCES THAT PRESENTLY APPLY TO THIS REMODEL.

I. ANY DEVICE THAT SUFFERS MALFUNCTION DURING RENOVATION SHALL BE REPLACED AT NO COST TO OWNER. CONTRACTOR SHALL TAKE PROPER STEPS TO ENSURE DUST AND DEBRIS DOES NOT NEGATIVELY INTERFERE WITH OPERATION OF ANY EXISTING EQUIPMENT LEFT OPERATIONAL DURING RENOVATION.

GENERAL ELECTRICAL DEMOLITION NOTES:

A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED THE EXISTING JOB SITE CONDITIONS DURING THE BIDDING PERIOD TO OBTAIN THE SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF THE ARCHITECTURAL MODIFICATIONS TO THE EXISTING CONDITIONS. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND OUTLETS, CONSISTING OF FIXTURES, DEVICES, EQUIPMENT OR APPARATUS, WHICH MUST BE REROUTED, RELOCATED OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED SO THAT THE REMODELING WORK MAY BE ACCOMPLISHED. NOT ALL EXISTING OUTLETS ARE NECESSARILY INDICATED ON THE DRAWINGS.

B. CONTRACTOR SHALL REVIEW DEMOLITION AND NEW WORK PLANS SIMULTANEOUSLY TO IDENTIFY SCOPE THAT IS TO BE MODIFIED FOR REUSE WITH NEW SCOPE.

C. CONTRACTOR SHALL VERIFY AND DOCUMENT EXISTING CONDITIONS OF ALL OUTLETS THAT ARE INDICATED OR REQUIRED TO BE REMOVED AND REINSTALLED TO FACILITATE THE WORK REQUIRED BY ALL TRADES. THE CONTRACTOR SHALL REPLACE NON-OPERABLE DEVICES AT NO ADDITIONAL COST TO THE OWNER. DOCUMENT OUTLETS IN NON-WORKING CONDITION PRIOR TO REMOVAL AND NOTIFY THE OWNER.

D. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL TO ALL REMOVED MATERIALS. CONTRACTOR SHALL COORDINATE WITH OWNER FOR LOCATION TO RETURN ANY AND ALL MATERIAL FOR OWNER STORAGE. FAILURE TO TURN OVER REMOVED MATERIAL TO OWNER MAY REQUIRE CONTRACTOR TO REPLACE EQUIPMENT REMOVED WITH NEW.

E. REMOVE ALL ELECTRICAL DEVICES WITHIN DEMOLISHED WALLS INCLUDING RECEPTACLES, DATA/TELEPHONE DROPS, P/A DEVICES, CONDUIT, AND WIRING. ALL EXISTING DEVICES MAY NOT BE DOCUMENTED ON PLANS. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR DEMOLISHED WALLS. REMOVE CONDUIT AND WIRING BACK TO PANEL OR LAST ACTIVE JUNCTION BOX.

F. ALL ABANDONED CONDUIT AND BOXES FOUND IN CRAWLSPACES, CEILINGS SPACES, CHASES, OR UTILITY SPACES SHALL BE REMOVED. EXISTING UNDERGROUND CONDUIT MAY BE ABANDONED. CAP ABANDONED UNDERGROUND CONDUIT FLUSH WITH GRADE.

G. OWNER SHALL RESERVE THE RIGHT TO CLAIM ALL EQUIPMENT AND CABLING REMOVED DURING DEMOLITION.

H. RE-ESTABLISH SERVICE TO ALL OUTLETS THAT MAY BE INTERRUPTED DUE TO REMODELING WORK.

I. PROVIDE ALL APPURTENANCES REQUIRED TO REROUTE, RELOCATE, REMOVE OR REINSTALL ALL ITEMS REQUIRED BY SCOPE OF REMODEL.

J. ALL ABANDONED MATERIAL SHALL BE REMOVED FROM JOBSITE PRIOR TO PROJECT COMPLETION.

K. IDENTIFICATION AND LABELING SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATIONS.

L. CIRCUIT NUMBERS ARE FOR PLAN REFERENCE ONLY. CONTRACTOR SHALL RE-LABEL ALL CIRCUIT DIRECTORIES WITH LOAD NAMES FOR ALL EXISTING AND NEW PANELS THAT WERE MODIFIED WITHIN THIS PROJECT.

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ELECTRICAL GENERAL NOTES

E0.11

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GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

B. REFER TO SHEET E5.01 FOR ALL ELECTRICAL SCHEDULES.

C. REFER TO SHEET E6.01 FOR ALL ELECTRICAL DETAILS.

ELECTRICAL KEYED NOTES:

1. EXISTING LIGHTING FIXTURES, ELECTRICAL SWITCHING AND SPEAKERS WITHIN SHALL BE DEMOLISHED. LIGHTING CIRCUITS SHALL REMAIN.
2. REPLACE EXISTING PIA SPEAKER WITH NEW. TIE IN TO EXISTING SPEAKER SYSTEM.

1 LEVEL 01 - COMPOSITE DEMOLITION ELECTRICAL LIGHTING PLAN

1/16" = 1'-0"

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LEVEL 01 - COMPOSITE DEMOLITION ELECTRICAL LIGHTING PLAN

E1.11

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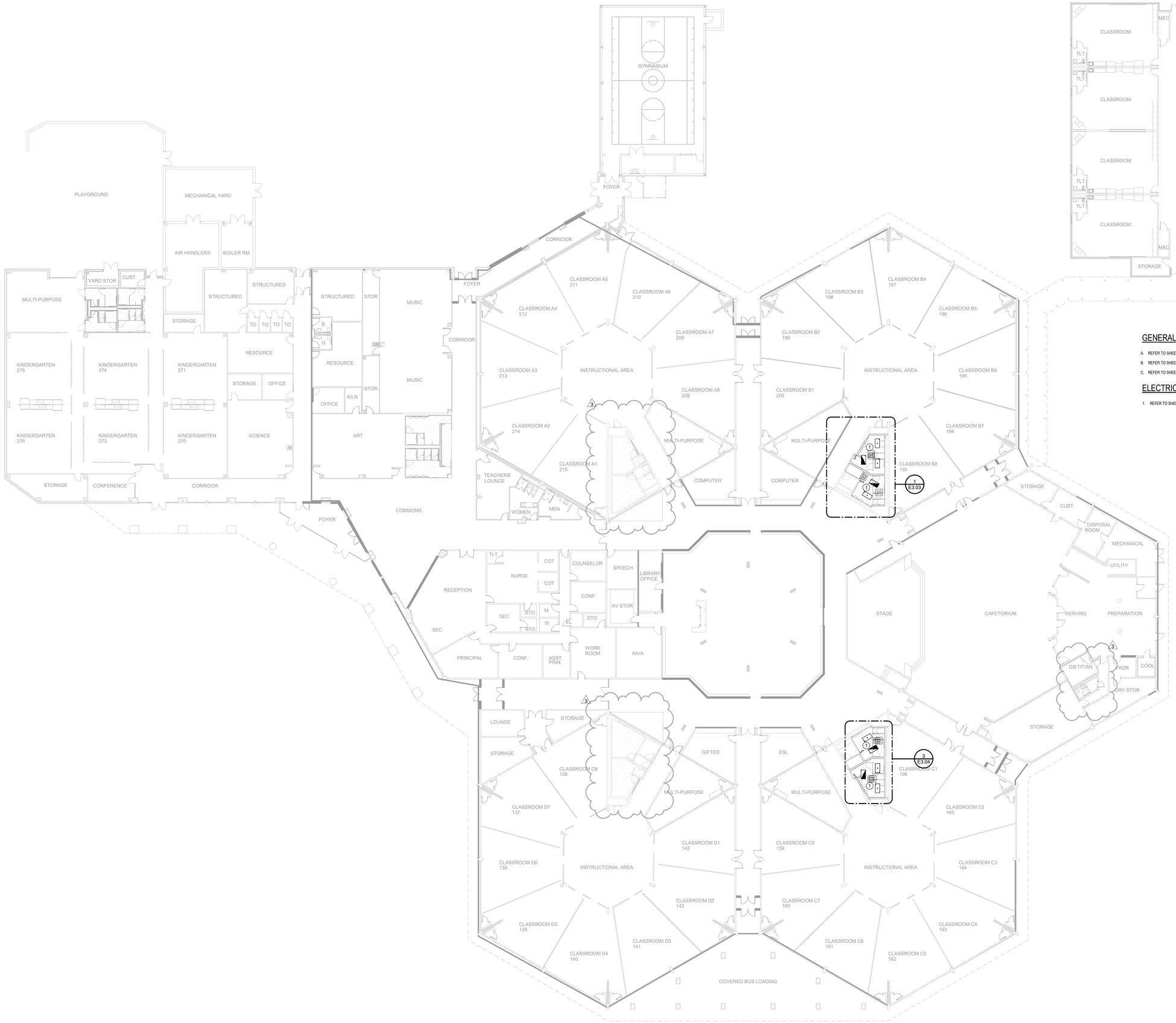

GENERAL ELECTRICAL NOTES:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.
B. REFER TO SHEET E5.01 FOR ALL ELECTRICAL SCHEDULES.
C. REFER TO SHEET E6.01 FOR ALL ELECTRICAL DETAILS.

ELECTRICAL KEYED NOTES:

1. REFER TO SHEETS E3.01 AND E3.02 FOR ENLARGED PLANS.

1 LEVEL 01 - COMPOSITE ELECTRICAL LIGHTING PLAN

1/16" = 1'-0"

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LEVEL 01 - COMPOSITE ELECTRICAL LIGHTING PLAN

E1.12

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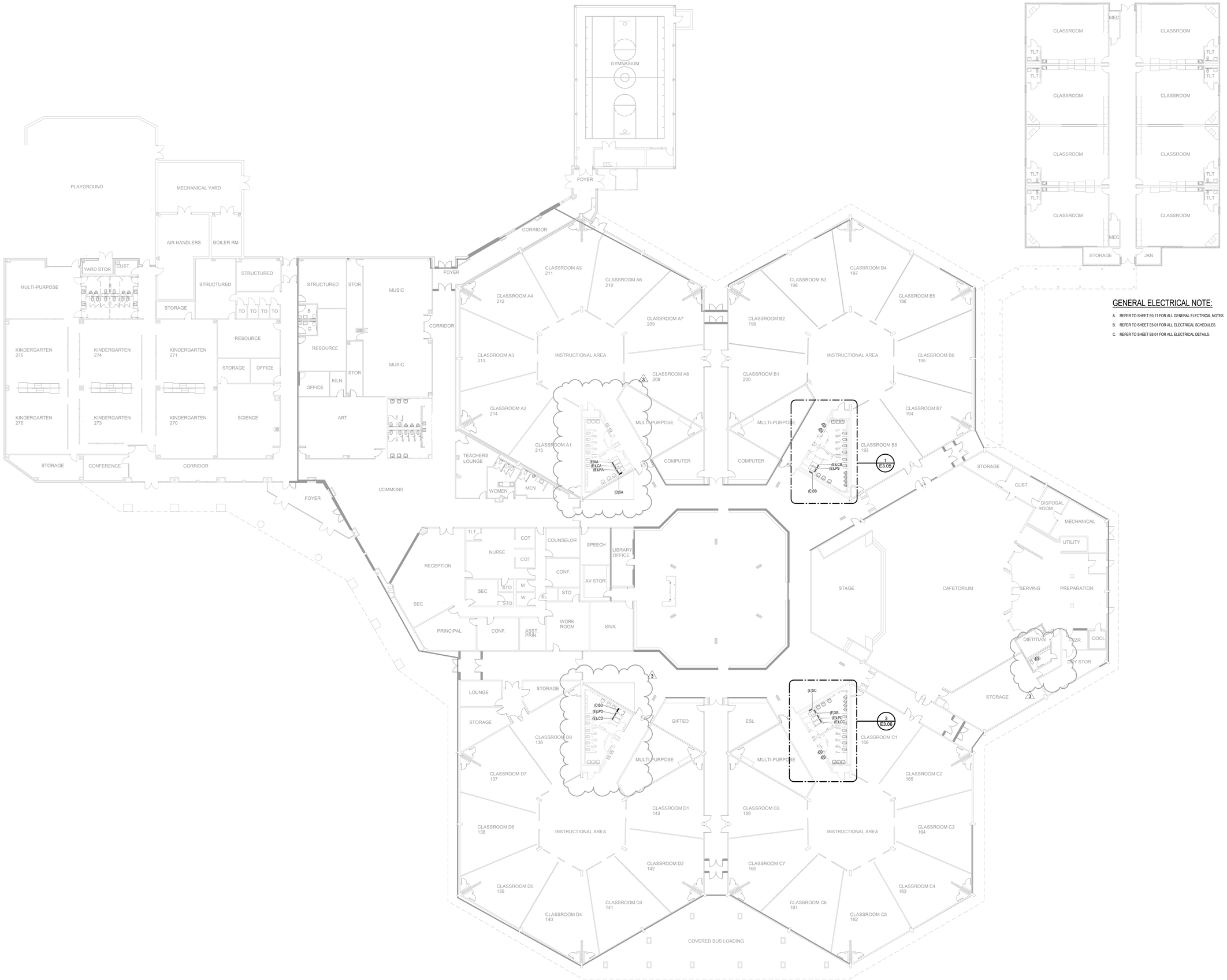

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.
B. REFER TO SHEET E5.01 FOR ALL ELECTRICAL SCHEDULES.
C. REFER TO SHEET E6.01 FOR ALL ELECTRICAL DETAILS.

1 LEVEL 01 - COMPOSITE DEMOLITION ELECTRICAL POWER PLAN

1/16" = 1'-0"

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LEVEL 01 - COMPOSITE DEMOLITION ELECTRICAL POWER PLAN

E2.11

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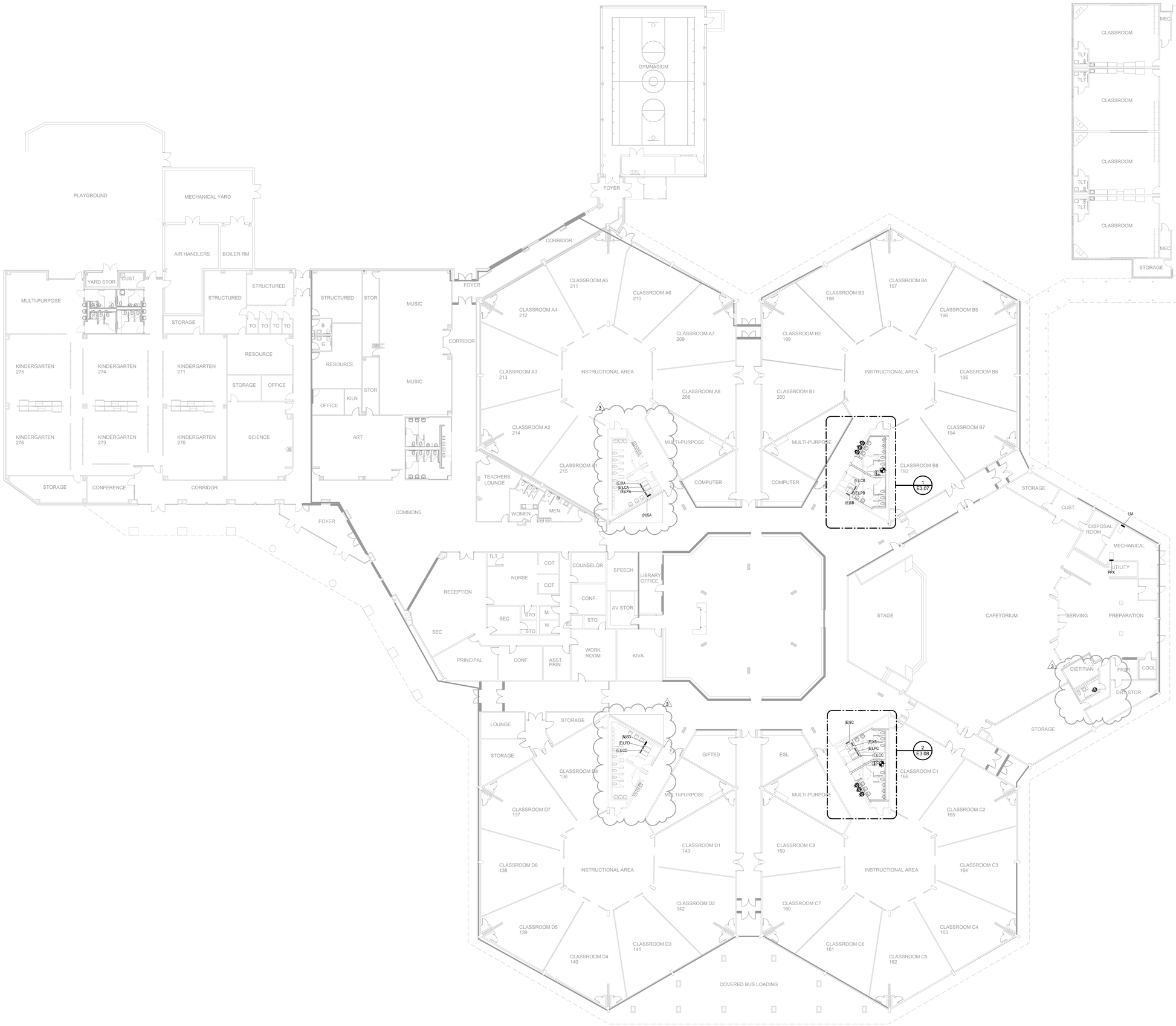

GENERAL ELECTRICAL NOTE:

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B. REFER TO SHEET E5.01 FOR ALL ELECTRICAL SCHEDULES.

C. REFER TO SHEET E6.01 FOR ALL ELECTRICAL DETAILS.

1 LEVEL 01 - COMPOSITE ELECTRICAL POWER PLAN

1/16" = 1'-0"

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LEVEL 01 - COMPOSITE ELECTRICAL POWER PLAN

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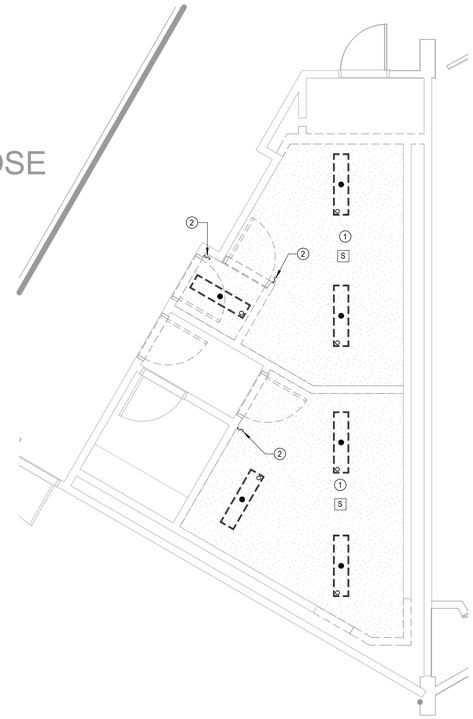
MULTI-PURPOSE



1 LEVEL 01 - DEMOLITION ELECTRICAL LIGHTING PLAN - INSTRUCTIONAL AREA NE RESTROOMS

1/4" = 1'-0"

MULTI-PURPOSE

3 LEVEL 01 - DEMOLITION ELECTRICAL LIGHTING PLAN - INSTRUCTIONAL AREA SE RESTROOMS

1/4" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

B. REFER TO SHEET E5.01 FOR ALL ELECTRICAL SCHEDULES.

C. REFER TO SHEET E6.01 FOR ALL ELECTRICAL DETAILS.

ELECTRICAL KEYED NOTES: (#)

1. EXISTING LIGHTING FIXTURES, ELECTRICAL SWITCHING AND SPEAKER WITHIN SHALL BE DEMOLISHED. LIGHTING CIRCUITS SHALL REMAIN.
2. EXISTING LIGHT SWITCH TO BE REMOVED.

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LEVEL 01 - DEMOLITION ELECTRICAL LIGHTING PLAN - ENLARGED

E3.01

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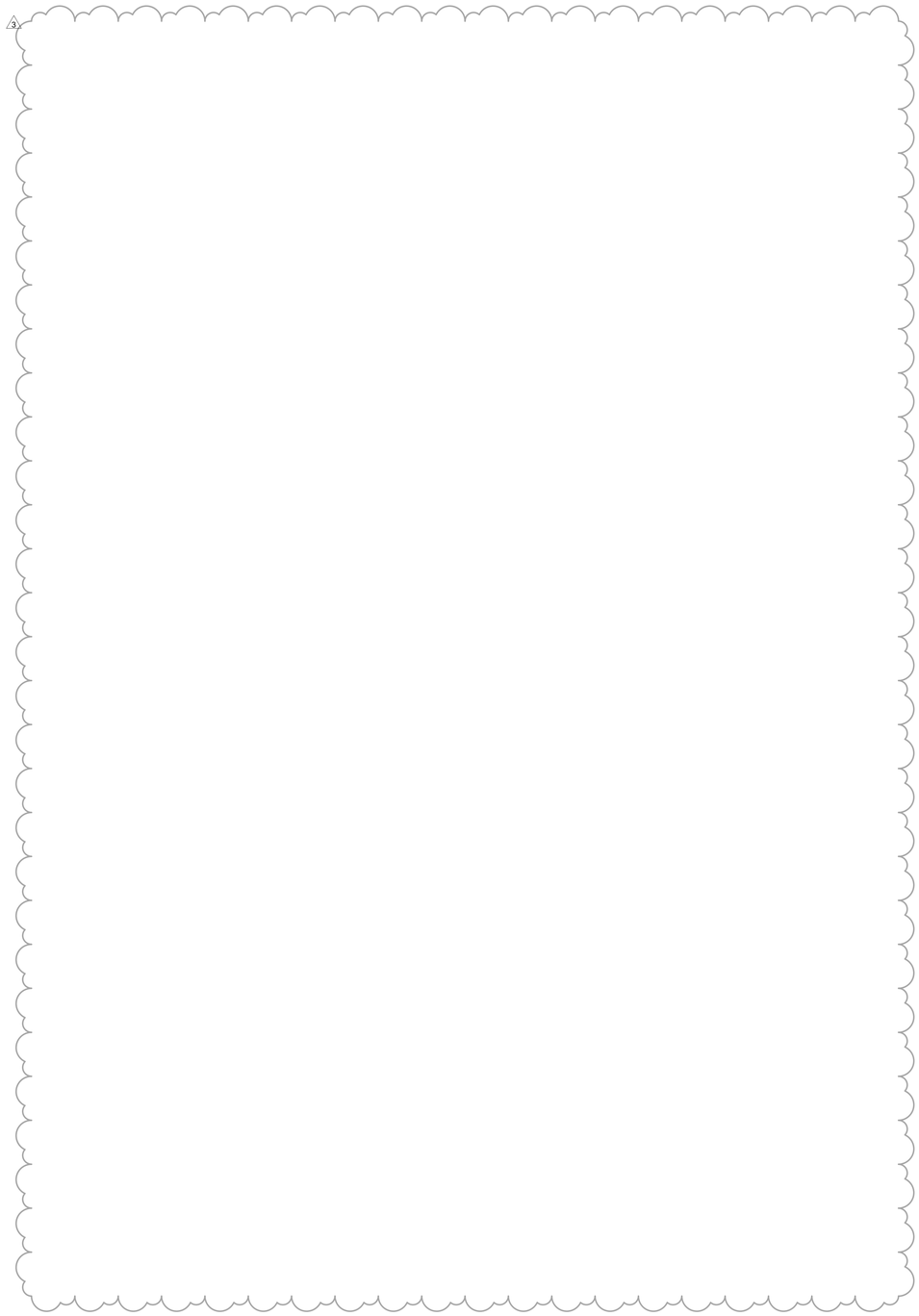
GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.
B. REFER TO SHEET E5.01 FOR ALL ELECTRICAL SCHEDULES.
C. REFER TO SHEET E6.01 FOR ALL ELECTRICAL DETAILS.

ELECTRICAL KEYED NOTES: (#)



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LEVEL 01 - DEMOLITION ELECTRICAL LIGHTING PLAN - ENLARGED

E3.02

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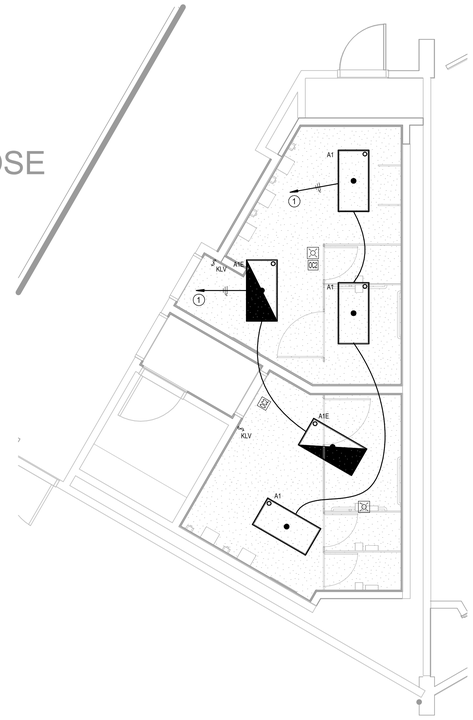
MULTI-PURPOSE



1 LEVEL 01 - ELECTRICAL LIGHTING PLAN - INSTRUCTIONAL AREA NE RESTROOMS

1/4" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

B. REFER TO SHEET E5.01 FOR ALL ELECTRICAL SCHEDULES.

C. REFER TO SHEET E6.01 FOR ALL ELECTRICAL DETAILS.

ELECTRICAL KEYED NOTES: (#)

1. CONNECT TO EXISTING LIGHTING CIRCUIT IN THIS AREA THAT HAS BEEN ABANDONED DUE TO RENOVATION AND REMODELING. ELECTRICAL CONTRACTOR TO FIELD VERIFY CONDITIONS PRIOR TO INSTALLATION.

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LEVEL 01 - ELECTRICAL LIGHTING PLAN - ENLARGED

E3.03

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GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

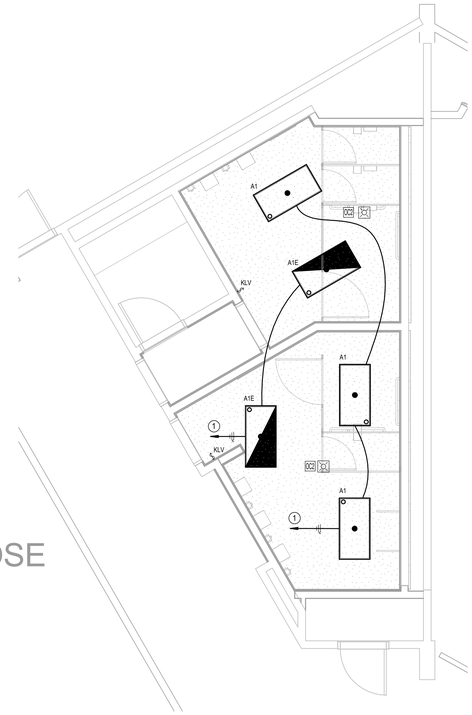
B. REFER TO SHEET E5.01 FOR ALL ELECTRICAL SCHEDULES.

C. REFER TO SHEET E6.01 FOR ALL ELECTRICAL DETAILS.

ELECTRICAL KEYED NOTES: (#)

1. CONNECT TO EXISTING LIGHTING CIRCUIT IN THIS AREA THAT HAS BEEN ABANDONED DUE TO RENOVATION AND REMODELING. ELECTRICAL CONTRACTOR TO FIELD VERIFY CONDITIONS PRIOR TO INSTALLATION.

MULTI-PURPOSE



3 LEVEL 01 - ELECTRICAL LIGHTING PLAN - INSTRUCTIONAL SE RESTROOMS

1/4" = 1'-0"

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LEVEL 01 - ELECTRICAL LIGHTING PLAN - ENLARGED

E3.04

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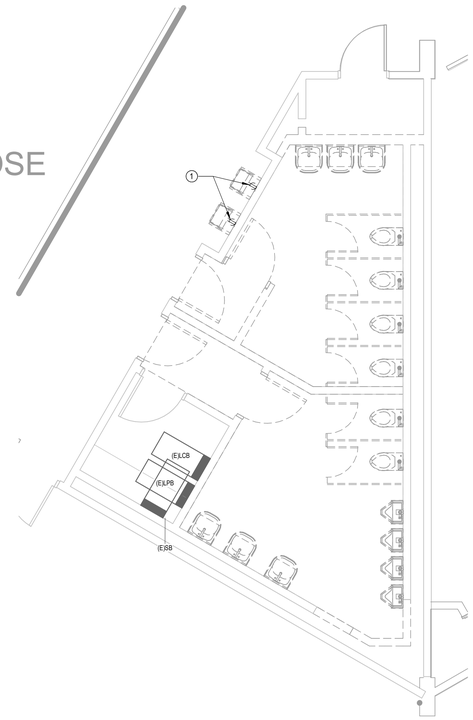
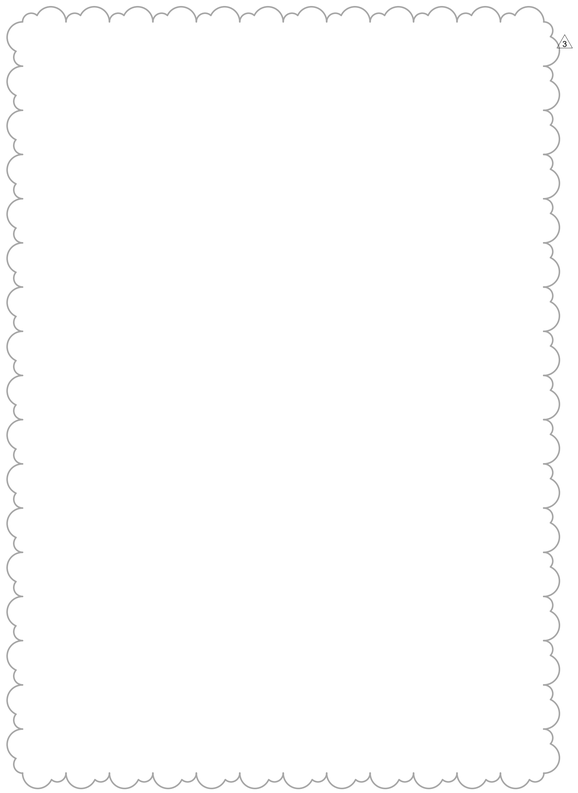
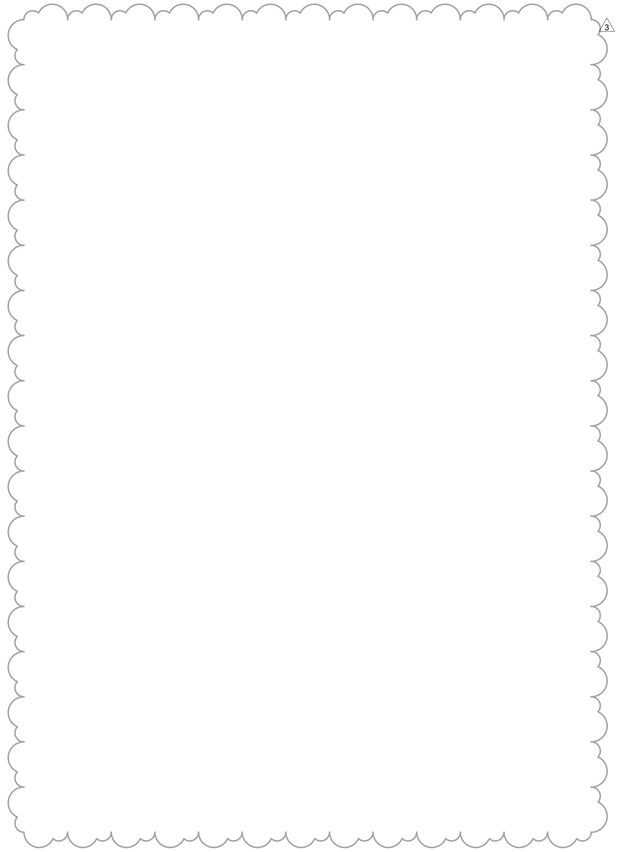


1 LEVEL 01 - DEMOLITION ELECTRICAL POWER PLAN - INSTRUCTIONAL AREA NE RESTROOMS

1/4" = 1'-0"





GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

B. REFER TO SHEET E5.01 FOR ALL ELECTRICAL SCHEDULES.

C. REFER TO SHEET E6.01 FOR ALL ELECTRICAL DETAILS.

ELECTRICAL KEYED NOTES: (#)

1. EXISTING DRINKING FOUNTAIN BEING DEMOLISHED AND REPLACED WITH NEW. CONTRACTOR SHALL DEMOLISH EXISTING RECEPTACLE AND PROVIDE NEW. REFER TO NEW ELECTRICAL PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.
2. PANEL SHALL BE DEMOLISHED AND REPLACED IN SAME LOCATION. ALL CIRCUITS FROM DEMOLISHED PANEL SHALL BE RELOCATED TO NEW PANEL. PROVIDE NEW CONDUCTORS AND CONDUIT AS REQUIRED TO MAKE CONNECTION TO NEW PANEL. REFERENCE DETAIL 13/ES.01.

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LEVEL 01 - DEMOLITION ELECTRICAL POWER PLAN - ENLARGED

E3.05

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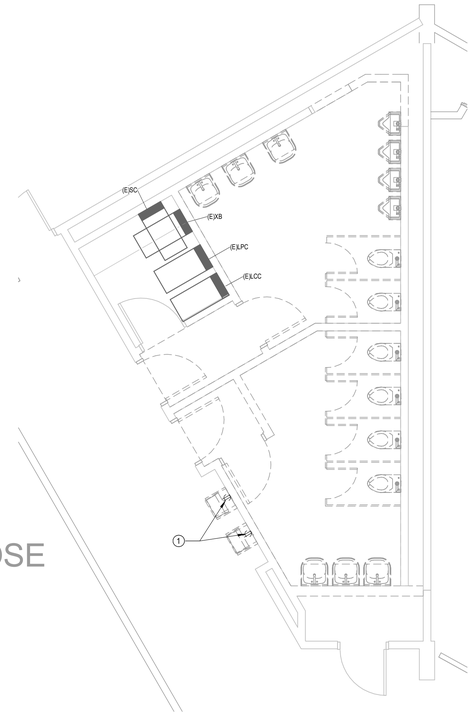

MULTI-PURPOSE

3 **LEVEL 01 - DEMOLITION ELECTRICAL POWER PLAN - INSTRUCTIONAL SE RESTROOMS**
1/4" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

B. REFER TO SHEET E5.01 FOR ALL ELECTRICAL SCHEDULES.

C. REFER TO SHEET E6.01 FOR ALL ELECTRICAL DETAILS.

ELECTRICAL KEYED NOTES: (#)

1. EXISTING DRINKING FOUNTAIN BEING DEMOLISHED AND REPLACED WITH NEW. CONTRACTOR SHALL DEMOLISH EXISTING RECEPTACLE AND PROVIDE NEW. REFER TO NEW ELECTRICAL PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.

2. EXISTING RECEPTACLE SHALL BE DEMOLISHED AND REPLACED WITH NEW. REFER TO NEW ELECTRICAL PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.

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LEVEL 01 - DEMOLITION ELECTRICAL POWER PLAN - ENLARGED

E3.06

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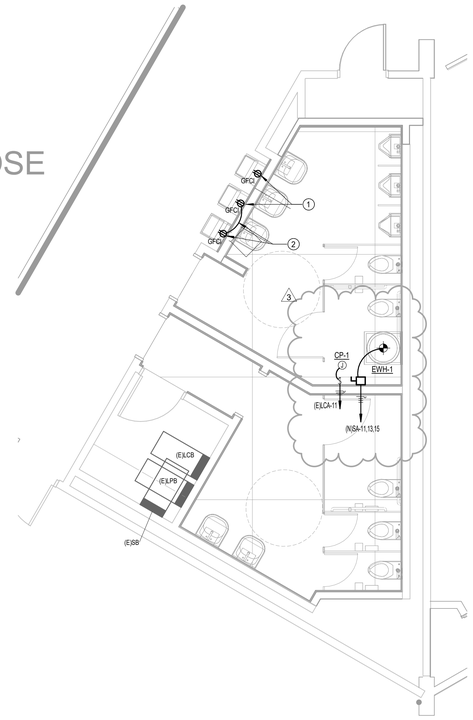
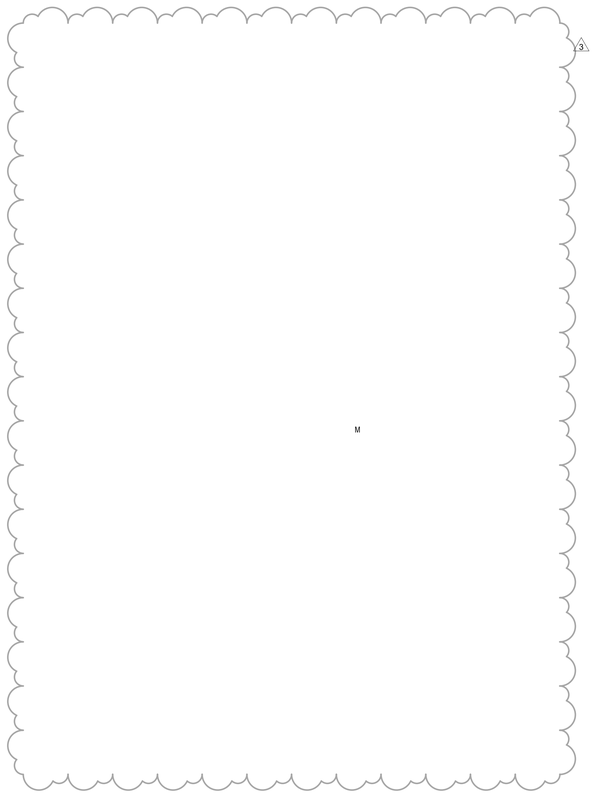
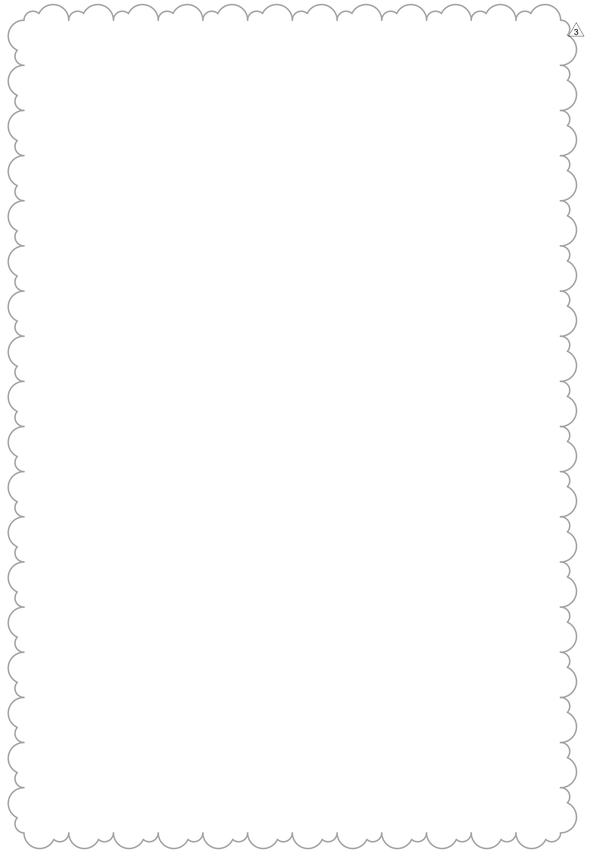


1 LEVEL 01 - ELECTRICAL POWER PLAN - INSTRUCTIONAL AREA NE RESTROOMS

1/4" = 1'-0"





GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

B. REFER TO SHEET E5.01 FOR ALL ELECTRICAL SCHEDULES.

C. REFER TO SHEET E6.01 FOR ALL ELECTRICAL DETAILS.

ELECTRICAL KEYED NOTES: (#)

1. APPROXIMATE LOCATION OF NEW DRINKING FOUNTAIN REPLACING EXISTING ONE. PROVIDE NEW GFCI ELECTRICAL RECEPTACLE AS SHOWN ON PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED. REFER TO ELECTRICAL FOUNTAIN DETAIL #6/E6.01. PROVIDE REMOTE GFCI TEST BUTTON ADJACENT TO DRINKING FOUNTAIN AT NORMAL RECEPTACLE HEIGHT IN AN ACCESSIBLE LOCATION. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.
2. CONNECT NEW GFCI RECEPTACLE WITH EXISTING RECEPTACLE CIRCUIT SERVING THIS AREA. CONTRACTOR SHALL FIELD VERIFY/COORDINATE EXACT LOCATIONS, INSTALLATION DETAILS, ETC. WITH ARCHITECT/OWNER PRIOR TO STARTING ANY WORK. CONTRACTOR SHALL NOT EXCEED 80% BREAKER RATING PER NEC.

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LEVEL 01 - ELECTRICAL POWER PLAN - ENLARGED

E3.07

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GENERAL ELECTRICAL NOTE:

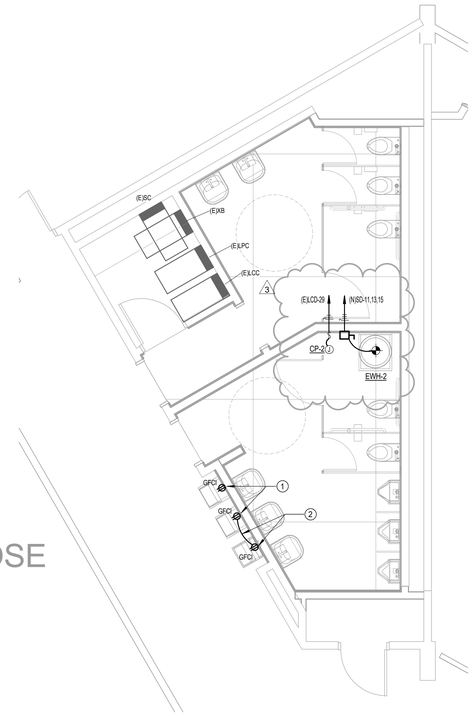
A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

B. REFER TO SHEET E5.01 FOR ALL ELECTRICAL SCHEDULES.

C. REFER TO SHEET E6.01 FOR ALL ELECTRICAL DETAILS.

ELECTRICAL KEYED NOTES: (#)

1. APPROXIMATE LOCATION OF NEW DRINKING FOUNTAIN REPLACING EXISTING ONE. PROVIDE NEW GFCI ELECTRICAL RECEPTACLE AS SHOWN ON PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED. REFER TO ELECTRICAL FOUNTAIN DETAIL #6/E6.01. PROVIDE REMOTE GFCI TEST BUTTON ADJACENT TO DRINKING FOUNTAIN AT NORMAL RECEPTACLE HEIGHT IN AN ACCESSIBLE LOCATION. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.
2. CONNECT NEW GFCI RECEPTACLE WITH EXISTING RECEPTACLE CIRCUIT SERVING THIS AREA. CONTRACTOR SHALL FIELD VERIFY/COORDINATE EXACT LOCATIONS, INSTALLATION DETAILS, ETC. WITH ARCHITECT/OWNER PRIOR TO STARTING ANY WORK. CONTRACTOR SHALL NOT EXCEED 80% BREAKER RATING PER NEC.
3. PROVIDE NEW GFCI ELECTRICAL RECEPTACLE AS SHOWN ON PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED.



MULTI-PURPOSE

2 LEVEL 01 - ELECTRICAL POWER PLAN - INSTRUCTIONAL SE RESTROOMS

1/4" = 1'-0"

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E3.08

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LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	MOUNTING	LAMPS	VOLTAGE	WATTAGE	DESCRIPTION
A1	DAYBRITE	2FPZ-48L-835-4-DS-UNV-DIM-FSK24	RECESSED	3500°K L.E.D	277 V	37 VA	2X4 LED FLAT PANEL WITH 4800 LUMENS AND 0-10V DIMMING.
A1E	DAYBRITE	2FPZ-48L-835-4-DS-UNV-DIM-FSK24	RECESSED	3500°K L.E.D	277 V	37 VA	2X4 LED FLAT PANEL WITH 4800 LUMENS AND 0-10V DIMMING. PROVIDE 90 MINUTE BATTERY BACKUP.

NOTES:
1. LIGHTING FIXTURE CATALOG NUMBERS AND DESCRIPTIONS ARE SCHEDULED FOR ESTABLISHING QUALITY, APPEARANCE AND PERFORMANCE OF THE FIXTURES AS REQUIRED BY THE DESIGN. EXACT CATALOG NUMBERS DESCRIBING MOUNTING CONDITIONS, FINISHES AND REQUIREMENTS RELATED TO TRIMS AND LENS FOR ALL FIXTURES SHALL BE CONFIRMED (BY THE CONTRACTOR) WITH THE ROOM FINISH SCHEDULE AND REFLECTED CEILING PLANS, INCLUDING GRID TYPES, ON THE ARCHITECTURAL DRAWINGS PRIOR TO BIDDING. FIXTURES SHALL BE SUBMITTED ACCORDING TO THE CONDITIONS INDICATED ON THE ARCHITECTURAL PLANS. REFER TO THE WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. THE NEW LIGHT FIXTURES SCHEDULED ARE THE BASIS OF DESIGN. IT IS NOT INTENDED TO LIMIT COMPETITION FROM EQUAL MANUFACTURERS. ALL BIDDERS SHALL SUBMIT THEIR PROPOSED LIGHT FIXTURES IN SUBMITTAL FORM A MINIMUM OF 10 BUSINESS DAYS PRIOR TO BID DATE FOR REVIEW. APPROVED LIGHT FIXTURES WILL BE ISSUED IN AN ADDENDUM.

LIGHTING CONTROLS DEVICE SCHEDULE

TYPE	DESCRIPTION	COMMENTS
S S^3 S^4 S^K	LINE VOLTAGE SWITCH.	'3' INDICATES THREE WAY SWITCHING. '4' INDICATES FOUR WAY SWITCHING. 'K' INDICATES SWITCH SHALL BE KEYED SWITCH.
S^{MC}	LINE VOLTAGE MOMENTARY CONTACT SWITCH.	
S^{DR}	LINE VOLTAGE DIMMER SWITCH	DIMMER FOR USE IN DWELLING UNIT. COORDINATE DIMMING TYPE WITH FINAL FIXTURE AND LAMP SELECTION TO ENSURE COMPATIBILITY.
S^{3D}	LINE VOLTAGE DIMMER WITH 3-WAY SWITCH.	3-WAY DIMMER FOR USE IN DWELLING UNIT. COORDINATE DIMMING TYPE WITH FINAL FIXTURE AND LAMP SELECTION TO ENSURE COMPATIBILITY.
S^F	MULTI-SPEED FAN CONTROLLER WITH LINE VOLTAGE SWITCH.	
S^T	LINE VOLTAGE TIMER SWITCH WITH DIGITAL TIMER.	RATED FOR 120/277VAC. PROVIDE WITH AUDIBLE & VISUAL ALERTS. USER PROGRAMMABLE FOR 5MIN-12HR TIME-OUT SETTINGS.
S^{OC1}	LINE VOLTAGE WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR	SENSOR SHALL BE SET TO VACANCY MODE
S^{OC2}	LINE VOLTAGE WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DUAL RELAYS.	SENSOR SHALL BE SET TO VACANCY MODE. ONE RELAY SHALL SERVE 120 VOLT LIGHTING IN AREA INDICATED. AND ONE RELAY SHALL SERVE 277 VOLT LIGHTING.
S^{OCD}	LOW VOLTAGE OC SENSOR SWITCH WITH 0-10V DIMMER	SENSOR SHALL BE SET TO VACANCY MODE
S^{LV} S^{LVK}	LOW VOLTAGE MANUAL CONTROL.	CONNECT TO POWER PACK OR ROOM CONTROLLER IF OCCUPANCY SENSORS ARE INDICATED ON PLAN. PROVIDE MULTI-BUTTON SWITCH AS REQUIRED PER SWITCH LEGS SHOWN ON PLANS. 'K' INDICATES SWITCH SHALL BE KEYED SWITCH.
S^{OR} S^{ORK}	LOW VOLTAGE MANUAL CONTROL.	CONNECT TO RELAY PANEL OR TIME CLOCK FOR TIME OF DAY OVERRIDE AS NOTED ON PLANS. PROVIDE MULTI-BUTTON SWITCH AS NOTED ON PLANS. 'K' INDICATES SWITCH SHALL BE KEYED SWITCH.
S^D	LOW VOLTAGE SWITCH WITH 0-10V DIMMER	PROVIDE MULTI-BUTTON SWITCH AS REQUIRED PER SWITCH LEGS SHOWN ON PLANS. PROVIDE POWER PACKS OR ROOM CONTROLLERS AS REQUIRED.
OC1	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO VACANCY MODE. PROVIDE POWER PACKS AS NEEDED.
OC2	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO OCCUPANCY MODE. PROVIDE POWER PACKS AS REQUIRED.
OC3	CEILING MOUNTED ULTRASONIC OR MICROPHONIC OCCUPANCY SENSOR.	SET TO OCCUPANCY MODE. PROVIDE POWER PACKS AS REQUIRED.
OC4	CORNER MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO VACANCY MODE. PROVIDE POWER PACKS AS REQUIRED.
OC5	WET LOCATION PIR OCCUPANCY SENSOR.	CONNECT GARAGE OCCUPANCY SENSORS TO RELAY PANEL SERVING AREA. PROVIDE POWER PACKS FOR CONTROL WHERE NOT LOCATED IN THE GARAGE.
OC6	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR FOR HIGH BAY APPLICATION.	SET TO VACANCY MODE. PROVIDE POWER PACKS AS REQUIRED.
PC	DIGITAL PHOTOSENSOR	CONNECT TO ROOM CONTROLLER OR RELAY PANEL AS NOTED ON PLANS.
DS	DAYLIGHT HARVESTING SENSOR	CONNECT TO ROOM CONTROLLER OR INDIVIDUAL LIGHT FIXTURE FOR DAYLIGHT HARVESTING DIMMING CONTROL.

NOTES:
1. WATTSTOPPER IS THE BASIS OF DESIGN.
2. THE LIGHTING CONTROLS SCHEDULED ARE THE BASIS OF DESIGN. IT IS NOT INTENDED TO LIMIT COMPETITION FROM EQUAL MANUFACTURERS. ALL BIDDERS SHALL SUBMIT THEIR PROPOSED LIGHTING CONTROLS IN SUBMITTAL FORM A MINIMUM OF 10 BUSINESS DAYS PRIOR TO BID DATE FOR REVIEW. APPROVED LIGHTING CONTROL SYSTEMS WILL BE ISSUED IN AN ADDENDUM.
3. BASIS OF DESIGN SHALL BE A HARD-WIRED TYPE SYSTEM, UNLESS NOTED OTHERWISE.

2021 **STANDARD SEQUENCE OF OPERATIONS**	AUTO ON1	MANUAL ON (VACANCY)	AUTO OFF (≥MIN MAX)	PARTIAL OFF AT NORMAL HOURS2	AUTO OFF AFTER HOURS (≤MIN MAX)	TIME ON	TIME OFF	ASTRONOMIC or PHOTOCELL ON/OFF	AUTO STEP CONTROL WITH OFF4	AUTO CONTINUOUS DIM WITH OFF4, 5	MANUAL BI-LEVEL REDUCTION CONTROL6	MANUAL CONTINUOUS DIM CONTROL	MANUAL ON/OFF SWITCH	MANUAL DIMMER SWITCH	DISPLAY, ACCENT, TASK CONTROL7	AUTOMATIC RECEPTACLE CONTROL	v1 - 05192022
ROOM TYPE		**OCCUPANCY SENSOR**				**TIME SWITCH**				**DAYLIGHT CTL**		**LT REDUCT**		**MANUAL CONTROL**			**SEQUENCE OF OPERATION**
Spaces (≤ 300 sq ft)	**50%**		**20 min**							D	●	D	●	D			Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; Where >150W in daylight area, use continuous dimming daylighting control and dimmer switch.
Enclosed Offices			**20 min**							D	●	D	●	D		●	Manual control and ≥50% light reduction with two on/off controls Where >150W in daylight area, use continuous dimming daylighting control and dimmer switch. 50% of receptacles turn on when occupied, off within 20 minutes of occupants leaving the space.
Open Plan Office Areas ≤600SqFt zones	**100%**		**20 min**							D		D	●	D	●	●	Auto On 100% when zone occupied; Occupancy sensor Auto Off; Manual control. Where >150W in daylight area, use continuous dimming daylighting control and dimmer switch. 50% of receptacles turn on when occupied, off within 20 minutes of occupants leaving the space.
Class/Lecture/Training Room	**50%**		**20 min**							D	●	D	●	D	●	●	Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls Where >150W in daylight area, use continuous dimming daylighting control and dimmer switch. 50% of receptacles turn on when occupied, off within 20 minutes of occupants leaving the space.
Conference/Meeting Room	**50%**		**20 min**							D	●	D	●	D	●	●	Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; Where >150W in daylight area, use continuous dimming daylighting control and dimmer switch. 50% of receptacles turn on when occupied, off within 20 minutes of occupants leaving the space.
Copy/Print Room	**50%**		**20 min**							D	●	D	●	D		●	Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; Where >150W in daylight area, use continuous dimming daylighting control and dimmer switch. 50% of receptacles turn on when occupied, off within 20 minutes of occupants leaving the space.
Electrical/Mech/Equip Room		●	**20 min**										●				Manual On; Occupancy sensor Auto Off; Manual control device.
Janitor Closet		●	**20 min**										●				Manual On; Occupancy sensor Auto Off; Manual control device.
Restroom	**100%**		**20 min**										●				Auto On 100%. Occupancy sensor Auto Off; Manual control.
Lunch/Break Rooms/Lounges	**50%**		**20 min**							D	●	D	●	D	●	●	Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; Where >150W in daylight area, use continuous dimming daylighting control and dimmer switch. 50% of receptacles turn on when occupied, off within 20 minutes of occupants leaving the space.
Public Lobbies	**100%**		**20 min**							D		D	●	D	●		Auto On 100%. Occupancy sensor Auto Off; Manual control device; Where >150W in daylight area, use continuous dimming daylighting control and dimmer switch.
Corridor	**100%**		**20 min**							D		D	●	D	●		Time On 50%; Occupancy sensor Partial Off ≥50%, Local control device; After hour occupancy sensor Auto On/Off; Where >150W in daylight area, continuous dimming daylighting control.
Stairwell	**100%**		**20 min**							D		D	●	D			Auto On 100%; Occupancy sensor Auto Off; Manual control; Where >150W in daylight area, use continuous dimming daylighting control and dimmer switch.
Storage Room	**50%**		**20 min**							D	●	D	●	D			Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; Where >150W in daylight area, use continuous dimming daylighting control and dimmer switch.
Library Stacks		●					**close**			D	●	D	●	D			Manual On; Time Off with closing hours. After hours 2 hour override from manual control device; Where >150W in daylight area, continuous dimming daylighting control with dimmer switch.
Library Open/Reading Area		●					**close**			D	●	D	●	D			Manual On; Time Off with closing hours. After hours 2 hour override from manual control device; Where >150W in daylight area, continuous dimming daylighting control with dimmer switch.
Cafeteria / Gym		●					**close**			D	●	D	●	D			Manual On; Time Off with closing hours. After hours 2 hour override from manual control device; Where >150W in daylight area, continuous dimming daylighting control with dimmer switch.
Multipurpose Rooms	**50%**		**20 min**							D	●	D	●	D			Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; Where >150W in daylight area, use continuous dimming daylighting control and dimmer switch.
Locker Room	**50%**		**20 min**							D	●	D	●	D			Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; Where >150W in daylight area, use continuous dimming daylighting control and dimmer switch.
Lab	**50%**		**20 min**							D	●	D	●	D			Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off switches. Where >150W in daylight area, use continuous dimming daylighting control and dimmer switch.
Warehouse Aisle (Racks)				**50% 20min**		**open**	**close**			D	●	D	●				Time On 50%, Auto On 100% when occupied. Occupancy sensor Partial Off ≥50%; Manual control device; After hour occupancy sensor Auto On/Off; Where >150W in daylight area, continuous dimming daylighting control.
Warehouse Open Area				**50% 20min**		**open**	**close**			D	●	D	●				Time On 50%, Auto On 100% when occupied. Occupancy sensor Partial Off ≥50%; Manual control device; After hour occupancy sensor Auto On/Off; Where >150W in daylight area, continuous dimming daylighting control.
Restaurant / Dining		●					**close**			D		D		●			Manual On; Time Off with closing hours. After hours 2 hour override from manual control device; Where >150W in daylight area, continuous dimming daylighting control with dimmer switch.
Building Façade / Landscape (Decorative)						**open**	**close**	●									Dusk Auto On with astro time switch or photocell; Evening Time Auto Off no later than one hour after business close. Morning Time Auto On no earlier than one hour before business open; Dawn Auto Off.
Parking Lot Lighting Height ≤ 24Ft & >78W	**100%**			**50% 15min**				●									Dusk Auto On with astronomical time switch or photocell. Occupancy sensor Partial Auto Off ≥50%. Scheduled Shut Off no later than midnight or business close. Morning Auto On no earlier than 6AM or business open. Dawn Auto Off.
Exterior / Parking Lots Lighting >24Ft or <78W Site Lighting (Setback)						**6AM3**	**12AM3**	●									Dusk Auto On with astro time switch or photocell; Reduce at least 50% from midnight or up to one hour after business close. Auto On to full at 6:00AM or up to one hour before business open. Dawn Auto Off.
Parking Garage				**30% 20min**		**open**	**close**	●/D	D								Time On 100% when open. Time Off when closed. Reduce lighting power by ≥30% when no activity detected within ≤ 3600ft2 lighting zone. Lighting within 20ft of perimeter openings reduce ≥50% responding to daylight.
Hotel / Motel Guestrooms													**CK**				Manual On and Auto Off lighting and switched receptacles with captive key control.

●/D Designation for code compliant default control design for spaces without daylighting control
D = Where daylighting control is required, "D" designation indicates controls required in the space for code compliance design
CK = Captive Key Switch system for use in Hotel/Motel and Guest Suites

NOTES: 1 May be Manual On or Auto On to ≤50%. Full Auto On only permitted in Corridors, Interior Parking, Stairways, Lobbies, Restrooms, Open Office, Library Stacks, Locker Rooms.
2 Partial Auto Off must reduce lighting by ≥50% during normal operating hours in corridors, warehouse aisles and open areas. Each aisle must be independently controlled. Full Auto Off complies with Partial Auto Off.
3 Exterior / Parking / Site lighting must Auto Off during daylight hours, reduce by at least 50% between midnight and 6AM or from one hour after business closing until 6AM before business opening.
4Automatic daylight control required where >150W lighting power in toplight or sidelight daylight area. Continuous dimming with Off. Assumes 0-10V dimmable fixtures in daylight and non-daylight area unless otherwise specified.
5Code requires automatic continuous dimming with full Off capability in daylighting areas of all space types.
6Manual bilevel lighting reduction control must allow ≥50% of the general lighting to be manually turned off by a control device located in the space.
7Display, Accent and Task lighting must have manual control independent from general lighting. Auto Off with occupancy sensors or time switch control required. Exempt from automatic daylighting control.

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BRENT B. MOE 117260 LICENSED PROFESSIONAL ENGINEER 04-06-26
DBR 713.914.0888 p Mike Hebert, Registered Architect TBPE Firm Registration No: 2234 DBR Project # 250076.000 BM | RM/TD/BJM/ST/NJ/JL | -

BOONE ELEMENTARY SCHOOL
ALIEF INDEPENDENT SCHOOL DISTRICT
11400 BISSONNET STREET HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
10-31-25
REVISIONS
2 02-11-26 ISSUE FOR BID & PERMIT
3 04-06-26 OWNER VE

Project Number

ELECTRICAL SCHEDULES

E5.01

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Panelboard (N)SA

AIC Rating: X New / Existing

480/277 Wye Volt, 3 Phase, 4 Wire | 1 Section | Type 1 -Nema Rating | Mains Type: MLO | 100 A BUS (Copper) | LUGS: | Mounting Stye: SURFACE

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
	500 VA	--	EXISTING LOAD	12	20 A	1 2	20 A	12	EXISTING LOAD	--	500 VA	
	500 VA	--	EXISTING LOAD	12	20 A	3 4	20 A	12	EXISTING LOAD	--	500 VA	
	500 VA	--	EXISTING LOAD	12	20 A	5 6	--	12	Space	--	0 VA	
	500 VA	--	EXISTING LOAD	12	20 A	7 8						
	500 VA	--	EXISTING LOAD	12	20 A	9 10	15 A	12	EXISTING LOAD	--	12468 VA	
						11 12						
	4000 VA	WH	EWH-1	12	20 A	13 14	--	12	Space	--	0 VA	
						15 16	--	12	Space	--	0 VA	

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.47	(R)Receptacle				210.20A	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.	4000 VA	100.00%	4000 VA
220.60	(F)Fans				220.50	(MT)Lrg. Motor			
	(M)Misc.					(SP)Sub Pnl.			
					630.11B	(W) Welders			

Total Connected Load: 19968 VA VA = 24 A
Total Load (Diversified): 19968 VA VA = 24 A
Location of Panel:

Panelboard (N)SD

AIC Rating: X New / Existing

480/277 Wye Volt, 3 Phase, 4 Wire | 1 Section | Type 1 -Nema Rating | Mains Type: MLO | 100 A BUS (Copper) | LUGS: | Mounting Stye: SURFACE

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
	500 VA	--	EXISTING LOAD	12	20 A	1 2	20 A	12	EXISTING LOAD	--	500 VA	
	500 VA	--	EXISTING LOAD	12	20 A	3 4	20 A	12	EXISTING LOAD	--	500 VA	
	500 VA	--	EXISTING LOAD	12	20 A	5 6	20 A	12	EXISTING LOAD	--	500 VA	
	500 VA	--	EXISTING LOAD	12	20 A	7 8	20 A	12	EXISTING LOAD	--	500 VA	
	0 VA	--	Space	12	--	9 10	--	12	Space	--	0 VA	
						11 12	--	12	Space	--	0 VA	
	4000 VA	WH	EWH-2	12	20 A	13 14	--	12	Space	--	0 VA	
						15 16	--	12	Space	--	0 VA	

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.47	(R)Receptacle				210.20A	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.	4000 VA	100.00%	4000 VA
220.60	(F)Fans				220.50	(MT)Lrg. Motor			
	(M)Misc.					(SP)Sub Pnl.			
					630.11B	(W) Welders			

Total Connected Load: 8000 VA VA = 10 A
Total Load (Diversified): 8000 VA VA = 10 A
Location of Panel:

Panelboard (E)LCD

AIC Rating: New / X Existing

120/208 Wye Volt, 3 Phase, 4 Wire | 1 Section | Type 1 -Nema Rating | Mains Type: MLO | 200 A BUS (Copper) | LUGS: SINGLE | Mounting Stye: SURFACE

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
1	500 VA	--	EXISTING LOAD	12	20 A	1 2	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	3 4	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	5 6	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	7 8	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	9 10	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	11 12	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	13 14	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	15 16	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	17 18	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	19 20	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	21 22	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	23 24	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	25 26	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	27 28	20 A	12	EXISTING LOAD	--	500 VA	1
2	85 VA	WH	CP-2	12	15 A	29 30	20 A	12	EXISTING LOAD	--	500 VA	1

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.47	(R)Receptacle				210.20A	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.	85 VA	100.00%	85 VA
220.60	(F)Fans				220.50	(MT)Lrg. Motor			
	(M)Misc.					(SP)Sub Pnl.			
					630.11B	(W) Welders			

Total Connected Load: 14585 VA VA = 40 A
Total Load (Diversified): 14585 VA VA = 40 A
Location of Panel:

Panelboard (E)LCA

AIC Rating: New / X Existing

120/208 Wye Volt, 3 Phase, 4 Wire | 1 Section | Type 1 -Nema Rating | Mains Type: | BUS (Copper) | LUGS: | Mounting Stye: SURFACE

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
	0 VA	--	Space	12	--	1 2	--	12	Space	--	0 VA	
1	500 VA	--	EXISTING LOAD	12	20 A	3 4	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	5 6	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	7 8	20 A	12	EXISTING LOAD	--	500 VA	1
1	0 VA	--	EXISTING LOAD	12	20 A	9 10	20 A	12	EXISTING LOAD	--	500 VA	1
2	85 VA	WH	CP-1	12	20 A	11 12	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	13 14	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	15 16	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	17 18	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	19 20	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	21 22	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	23 24	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	25 26	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	27 28	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	29 30	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	31 32	20 A	12	EXISTING LOAD	--	500 VA	1

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.47	(R)Receptacle				210.20A	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.	85 VA	100.00%	85 VA
220.60	(F)Fans				220.50	(MT)Lrg. Motor			
	(M)Misc.					(SP)Sub Pnl.			
					630.11B	(W) Welders			

Total Connected Load: 14085 VA VA = 39 A
Total Load (Diversified): 14085 VA VA = 39 A
Location of Panel:

PANEL SCHEDULE GENERAL NOTES:

1. ALL CIRCUITS ON EXISTING PANELS ARE EXISTING CIRCUIT/BREAKERS TO REMAIN UNLESS NOTED OTHERWISE BY KEYED NOTE.
2. ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE SCHEDULED.
3. CONTRACTOR SHALL REFER TO PROJECT SPECIFICATIONS FOR SPARE CONDUITS TO BE PROVIDED PER PANEL.

PANEL SCHEDULE KEYED NOTES:

1. EXISTING CIRCUIT SHALL REMAIN. UPDATE THE PANEL DIRECTORY WITH THE DEVICE/EQUIPMENT TYPE, ROOM NUMBER, ROOM NAME, ETC. REFERENCE SPECIFICATIONS AND GENERAL NOTES FOR ADDITIONAL INFORMATION. ANY EXISTING CIRCUITS DETERMINED TO BE SPARES, SHALL BE FLIPPED TO THE OFF POSITION AND PANEL DIRECTORY UPDATED ACCORDINGLY. CONTRACTOR SHALL FIELD VERIFY.
2. REUSE EXISTING PANEL SPACE FOR NEW CIRCUITING AND NEW BREAKER. CONTRACTOR SHALL FIELD VERIFY PRIOR TO STARTING ANY WORK.

Load Analysis - Boone ES

480 / 277 , 3 -PHASE, 4 -WIRE

Date: 12/17/2025

DESCRIPTION				NEC	KVA
EXISTING LOAD:					
PEAK KVA FROM CPE =	497,000	VA X	125%	220.87	621.3
REMOVED LOAD:					
LIGHTING:					
INTERIOR =	2,520	VA		220.12	-2.5
ADDED LOAD:					
LIGHTING:					
INTERIOR =	777	VA X	125% = 0.40 W/SF	220.12	1.0
PLUMBING:					
EWH'S =	8,000	VA X	100%		8.0
CIRCULATION PUMPS =	170	VA			0.2
				TOTAL =	627.9
				TOTAL AMPS:	755.2
SQ. FOOTAGE = 1,942				SERVICE SIZE:	2000.0
				SPARE AMPACITY:	1244.8

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STATE OF TEXAS BRENT B. MOE 117260 LICENSED PROFESSIONAL ENGINEER 04-06-26

DBR 713.914.0888 p Houston, Texas 77098 www.dbrhouston.com TBPE Firm Registration No: 2234 DBR Project # 250076.000 BM RM TD BJM ST N J L -

BOONE ELEMENTARY SCHOOL
ALIEF INDEPENDENT SCHOOL DISTRICT
11400 BISSONNET STREET HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
10-31-25

REVISIONS
2 02-11-26 ISSUE FOR BID & PERMIT
3 04-06-26 OWNER VE

Project Number

ELECTRICAL SCHEDULES

E5.02

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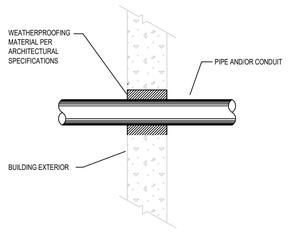
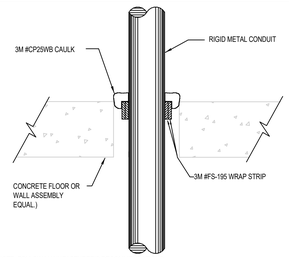
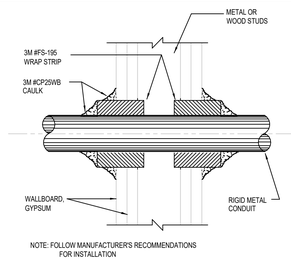


1 PIPE AND/OR CONDUIT PENETRATION
NOT TO SCALE E10018



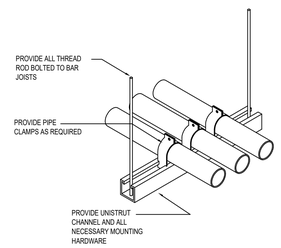
NOTE: FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.

2 2, 3 AND 4 HR. PENETRATIONS FOR CONCRETE FLOOR AND WALL
NOT TO SCALE E10019

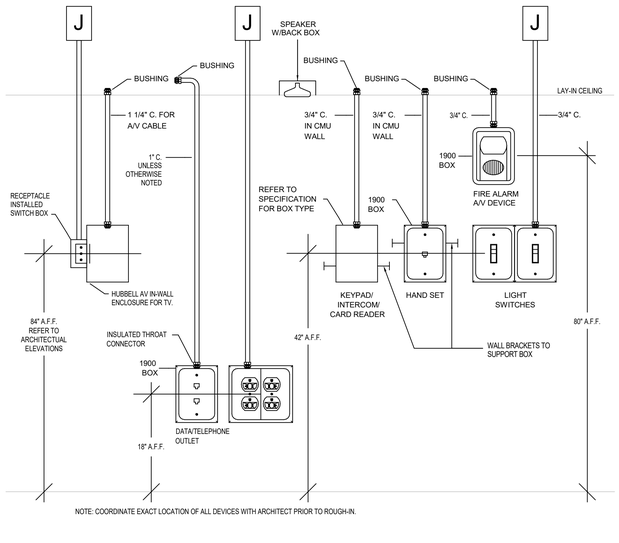


NOTE: FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION

3 1 AND 2 HR. GYPSUM/WALLBOARD PIPE PENETRATION
NOT TO SCALE E10017

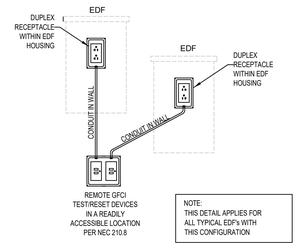


4 UNISTRUT CONDUIT DETAIL
NOT TO SCALE E10003

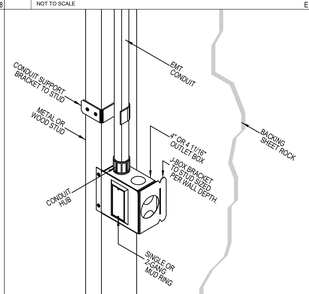


NOTE: COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.

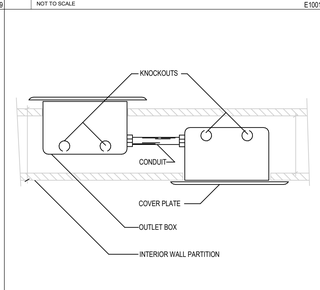
5 TYPICAL DEVICE ELEVATIONS
NOT TO SCALE E11001



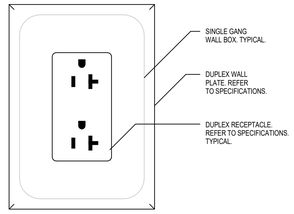
6 ELEC. DRINKING FOUNTAIN DETAIL
NOT TO SCALE E13008



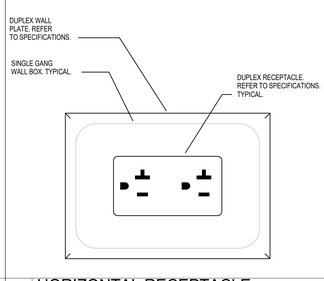
7 J-BOX BRACKET TO STUD DETAIL
NOT TO SCALE E13022



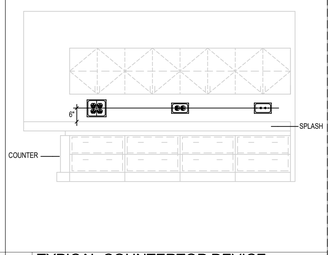
8 BACK-TO-BACK OUTLETS
NOT TO SCALE E13023



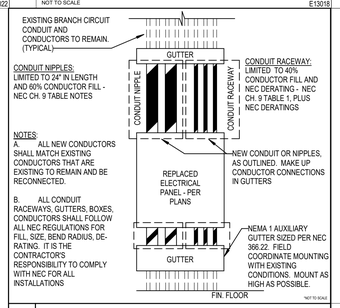
9 TYPICAL RECEPTACLE MOUNTING DETAIL
NOT TO SCALE E13018



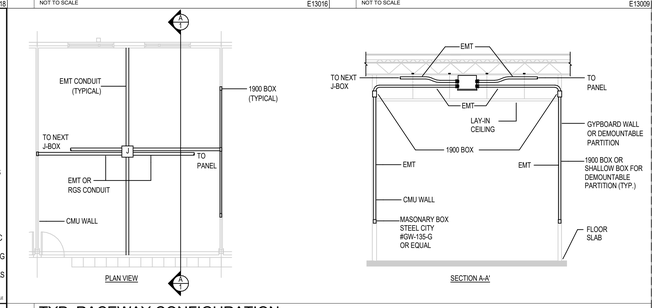
10 HORIZONTAL RECEPTACLE MOUNTING DETAIL
NOT TO SCALE E13016



11 TYPICAL COUNTERTOP DEVICE ELEVATION
NOT TO SCALE E13009



13 PANEL REPLACEMENT
E2303



12 TYP. RACEWAY CONFIGURATION
NOT TO SCALE E18001

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ELECTRICAL DETAILS

E6.01

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(NOT ALL ITEMS INDICATED APPLY TO THIS PROJECT)

ABBREVIATIONS

A

A	AIR (COMPRESSED)
AC	AIR COMPRESSOR
AD	AIR DRYER
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AUX	AUXILIARY
AV	ACID VENT
AVV	AIR ADMITTANCE VALVE
AW	ACID WASTE

B

B	BOILER
BF	BOTTLE FILLER
BFF	BELOW FINISH FLOOR
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BT	BATH TUB
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACK WATER VALVE

C

C	CELSIUS
CAB	CABINET
CB	CATCH BASIN
CD	CONDENSATE DRAIN LINE
CI	CAST IRON
CIRC	CIRCULATING
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CMU	CONCRETE MASONRY UNIT
CL	CENTERLINE
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE, CONCENTRIC
CONN	CONNECTION
CP	CIRCULATING PUMP, CHROME PLATE
CPI	CAST IRON PIPE INSTITUTE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CTE	CONNECT TO EXISTING
CW	COLD WATER

D

DBP	DOMESTIC BOOSTER PUMP
DC	DOWNSPOUT COVER
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN, DOWNSPOUT NOZZLE
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING

E

ECC	ECCENTRIC
EDF	ELECTRIC DRINKING FOUNTAIN
EL OR ELVA	ELEVATION
ES	EMERGENCY SHOWER
ESP	ELEVATOR SUMP PUMP
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EW	EYE WASH
EWH	ELECTRIC WATER HEATER

F

F	FARENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FCV	FLOOR CONTROL VALVE
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FEC	FIRE EXSTINGUISHER CABINET
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FIXT	FIXTURE
FL	FLOW LINES
FLEX	FLEXIBLE
FLR	FLOOR
FP	FIRE PUMP
FS	FLOW SWITCH, FIRE SPRINKLER FLOOR SINK
FT	FOOT, FEET
FW	FORCE WASTE, FILTER WATER

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GD	GARBAGE DISPOSAL
GI	GREASE INTERCEPTOR
GL	GLOBE VALVE
GPD	GALLONS PER DAY
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GT	GREASE TRAP
GV	GATE VALVE, GREASE VENT
GW	GREASE WASTE
GWH	GAS WATER HEATER

H

HB	HOSE BIBB
HC	HANDICAPPED
HD	HEAD, HUB DRAIN
HKP	HOUSEKEEPING PAD
HP	HORSEPOWER
HR	HOSE REEL
HSC	HORIZONTAL SPLIT CASE
HT	HEIGHT
HTR	HEATER
HW	HOT WATER
HWR	HOT WATER RETURN
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INSUL	INSULATION
IW	INDIRECT WASTE
IWH	INSTANTANEUOS WATER HEATER

J

JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPTMENT CONTRACTOR
KVA	KILOVOLT- AMPS
KW	KILOWATT

L

L	LENGTH, LAVATORY
LAV	LAVATORY
LF	LINEAR FEET
LP	LOW PRESSURE
LPG	LIQUEFIED PETROLEUM GAS
LT	LINT, LINT TRAP
LVL	LEVEL

M

MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MS	MOP SINK
MSB	MOP SERVICE BASIN
MTD	MOUNTED
MUW	MAKE-UP WATER

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE

O

O	MEDICAL OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OS&Y	OPEN STEM AND YOLK

P

PC	PLUMBING CONTRACTOR
PH	PHASE
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PNL	PANEL
POU	POINT-OF-USE
PP	POLYPROPYLENE
PPM	PART PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
PVDF	POLYVINYL IDENE FLUORIDE

Q

QTY	QUANTITY

R

RCP	REFLECTED CEILING PLAN, REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE	REFERENCE,REFER
RECIRC	RECIRCULATE
REFR	REFRIGERATOR
RH	ROOF HYDRANT
RM	ROOM
RO	REVERSE OSMOSIS
RPBF	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

SA	SHOCK ABSORBER
SC	SCHEDULE
SD	STORM DRAIN, SANITARY DRAIN
SEC	SECONDARY
SECT	SECTION
SF	SQUARE FEET
SH	SHOWER
SHI	SOLID HAIR INTERCEPTOR
SI	SOLIDS INTERCEPTOR
SIM	SIMILAR
SK	SINK
SOS	SAND OIL SEPERATOR
SOV	SHUT-OFF VALVE
SP	SUMP PUMP, STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	SERVICE SINK, SOIL STACK, STAINLESS STEEL
SSD	SUBSURFACE DRAIN
STD	STANDARD
STL	STEEL
STR	STRAINER
SV	SANITARY VENT
SW	SOFT WATER

T

TCO	TRAFFIC CLEANOUT
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TDL	TOTAL DEVELOPED LENGTH
TLT	TOILET
TMV	THERMOSTATIC MIXING VALVE
TOB	TOP OF BEAM
TOF	TOP OF FOOTER
TP	TRAP PRIMER
TPD	TRAP PRIMER DEVICE
TS	TAMPER SWITCH
TYP	TYPICAL

U

U	URINAL
UF	UNDERFLOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
US	UNDERSLAB

V

V	VOLT, VENT
VAC	VACUUM(MEDICAL)
VB	VALVE BOX, VACUUM BREAKER
VFD	VARIABLE FREQUENCY DRIVE
VP	VACUUM PUMP
VS	VENT STACK
VTR	VENT THRU ROOF

W

W	WATT, WASTE, WIDTH, WASHER
W/	WITH
W/O	WITHOUT
WADG	WASTE ANESTHETIC GAS DISPOSAL
WB	WALL BOX
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WM	WATER METER
WMB	WASHER MACHINE BOX
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WS	WATER SOFTENER, WASTE STACK
WSFU	WATER SUPPLY FIXTURE UNIT
WT	WATERTIGHT, WEIGHT

Y

YCO	YARD CLEANOUT
YH	YARD HYDRANT

Z

Z	ZONE

SYMBOLS

PLUMBING SYSTEMS

- SANITARY DRAIN BELOW FLOOR
- S(E) — EXISTING SOIL OR WASTE PIPING B.G. - S(E)
- SANITARY DRAIN ABOVE FLOOR
- S(E) — EXISTING SOIL OR WASTE PIPING A.G. - S(E)
- PIPE DEMO
- SANITARY VENT
- EXISTING VENT PIPING
- GW — GREASE WASTE(ABOVE CEILING)
- GW — GREASE WASTE(BELOW FLOOR)
- SD — STORM DRAIN(ABOVE CEILING)
- SD — STORM DRAIN(BELOW FLOOR)
- OD — OVERFLOW DRAIN(ABOVE CEILING)
- OD — OVERFLOW DRAIN(BELOW FLOOR)
- AW — ACID WASTE(ABOVE CEILING)
- AW(E) — EXISTING ACID WASTE PIPING A.G. - AW(E)
- AW — ACID WASTE(BELOW FLOOR)
- AW(E) — EXISTING ACID WASTE PIPING B.G. - AW(E)
- AV — ACID VENT(ABOVE CEILING OR BELOW FLOOR)
- AV(E) — EXISTING ACID VENT PIPING - AV(E)
- NP-CW — NON-POTABLE - COLD WATER
- COLD WATER - CW
- CW(E) — EXISTING DOMESTIC COLD WATER - CW(E)
- HOT WATER - HW
- HW(E) — EXISTING DOMESTIC HOT WATER - HW(E)
- HOT WATER RECIRCULATION
- HWR(E) — EXISTING DOMESTIC HOT WATER RETURN - HWR(E)
- G (4oz) — NATURAL GAS (LOW PRESSURE)
- G (2 PSI) — NATURAL GAS (MEDIUM PRESSURE)
- G (5 PSI) — NATURAL GAS (HIGH PRESSURE)
- T — TEMPERED WATER
- A — COMPRESSED AIR
- MA — MEDICAL AIR
- O — MEDICAL OXYGEN
- MV — MEDICAL VACUUM
- F — FIRE STANDPIPE, FIRE LINE
- FS — WET AUTOMATIC FIRE SPRINKLER
- FW — FORCE WASTE
- TP — TRAP PRIMER
- D — DRAIN LINE
- SW — SOFT WATER
- LT — LINT WASTE
- LP — LIQUIFIED PETROLEUM GAS
- N — NITROGEN
- N2O — NITROUS OXIDE
- IA — INSTRUMENT AIR
- WAGD — WASTE ANESTHETIC GAS DISPOSAL

PIPING FITTINGS

- CAP ON END OF PIPE
- ELBOW UP
- ELBOW DOWN
- VALVE IN DROP
- VALVE IN RISE
- DIRECTION OF FLOW
- DIRECTION OF SLOPE DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- TEE OUTLET UP
- TEE OUTLET DOWN
- UNION
- FLANGE
- STRAINER WITH BLOWDOWN VALVE
- GATE VALVE, HVAC BALANCING/STOP VALVE
- GLOBE VALVE
- BALL VALVE
- BALANCING VALVE WITH DIFFERENTIAL PRESSURE TAPS
- OS&Y VALVE
- CHECK VALVE
- BUTTERFLY VALVE
- TWO-WAY MODULATING CONTROL VALVE
- THREE-WAY MODULATING CONTROL VALVE
- SOLENOID VALVE
- PRESSURE REDUCING VALVE
- GAS REGULATOR
- GAS COCK
- SPRINKLER FLOOR CONTROL STATION
- MANUAL AIR VENT
- AUTOMATIC AIR VENT
- T&P RELIEF VALVE
- LINE CLEANOUT/ WALL CLEANOUT
- FLOOR CLEANOUT
- GRADE CLEANOUT
- PRESSURE GAUGE WITH GAUGE COCK
- THERMOMETER
- FLOW VENTURI
- VACUUM BREAKER
- VACUUM RELIEF VALVE
- BACKFLOW PREVENTOR
- CIRCULATING PUMP
- WATER SUB-METER
- LOCAL ALARM
- MASTER ALARM
- AREA ALARM

MISCELLANEOUS

- DRAIN(TYPE AND SIZE AS NOTED ON PLANS)
- ROOF DRAIN OR OVERFLOW DRAIN
- ROOF DRAIN OR OVERFLOW DRAIN(FROM ABOVE)
- HOSE BIBB
- WALL HYDRANT
- PLUMBING FIXTURES
- EXISTING PLUMBING FIXTURES
- POINT OF NEW CONNECTION TO EXISTING PIPING
- P.X.X — PLUMBING DRAWING NOTE REFERENCE
- 2 / P2.1 — DETAIL NUMBER OR PLAN / SHEET WHERE DETAIL OR PLAN IS SHOWN
- FS — FLOW SWITCH
- TS — TAMPER SWITCH
- ACCESS PANEL (AP)
- FIRE DEPARTMENT SIAMESE CONNECTION(WALL MOUNTED)
- FIRE DEPARTMENT SIAMESE CONNECTION(FREE STANDING)
- 2 / P7.1 — PLUMBING RISER DIAGRAM NUMBER / SHEET WHERE PLUMBING RISER DIAGRAM IS SHOWN

PLUMBING CODES

2021 UNIFORM PLUMBING CODE
2021 EXISTING BUILDING CODE

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PLUMBING SYMBOL LEGEND

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GENERAL WORK NOTES

1. ALL WORK, METHODS, AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE PREVAILING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
2. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS, ELEVATIONS, DIRECTION OF FLOW, PIPE SIZES & CAPACITIES, AND PIPE MATERIAL & CONDITION AT PROPOSED POINTS OF CONNECTION WITH EXISTING BUILDING PLUMBING LINES AND SITE CIVIL LINES PRIOR TO INSTALLATION OF ANY NEW WORK. MODIFY/REPLACE EXISTING PIPING IF AND AS REQUIRED TO ENSURE PROPER CONNECTIONS. ONLY CONNECT NEW LINES TO SUITABLE EXISTING LINES OF EQUAL OR GREATER SIZE.
3. COORDINATE ROUTING OF BURIED PIPING WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND UTILITIES, AND ALL OTHER SUB-SURFACE BUILDING ELEMENTS. MAKE ADJUSTMENTS AS REQUIRED AND ADVISE ARCHITECT/ENGINEER OF ANY GRADING CONFLICTS PRIOR TO COMMENCING INSTALLATION.
4. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL CONDITIONS AND PROVIDE PROPER PIPING INSTALLATIONS AS REQUIRED WITHOUT DAMAGE TO STRUCTURE. WHERE STRUCTURAL MODIFICATIONS WILL BE REQUIRED, THE CONTRACTOR SHALL FIRST RECEIVE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER AND PROVIDE ALL SUCH WORK ACCORDINGLY.
5. COORDINATE IN FIELD TO ENSURE NO LESS THAN 6 INCHES OF EARTHEN COVER FROM TOPS OF DRAINAGE PIPES TO BOTTOMS OF GRADE BEAMS, FOUNDATION WALLS, OR SIMILAR ELEMENTS. WHERE SUCH COVER CANNOT BE PROVIDED DUE TO INVERT ELEVATIONS, PROVIDE SCHEDULE 40 GALVANIZED STEEL PIPE SLEEVES THROUGH THE FOUNDATION ELEMENTS. SLEEVES SHALL BE NO SMALLER THAN TWO PIPE SIZES LARGER THAN THE PIPE SERVED. SEAL WATERTIGHT. COORDINATE WITH AND ADHERE TO ALL RELATED REQUIREMENTS PER THE STRUCTURAL ENGINEER.
6. CONTRACTOR SHALL FIELD COORDINATE LOCATIONS AND ELEVATIONS OF ALL PLUMBING PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. WHERE RELOCATIONS OF NEW WORK ARE REQUIRED TO CORRECT CONFLICTS WITH OTHER TRADES IT SHALL BE DONE AT NO ADDITIONAL COST TO OWNER.
7. ALL PIPE PASSING THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SUPPORTED AT THE PENETRATION AND SHALL BE SEALED WITH APPROVED FIRE STOP MATERIALS AS SPECIFIED AND AS REQUIRED BY CODE AND THE AUTHORITIES HAVING JURISDICTION.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING ALL PLUMBING PIPING SLEEVE LOCATIONS WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF ANY PIPING OR SUPPORTS.
9. HORIZONTAL GRAVITY DRAINAGE PIPING SHALL BE PROVIDED AT NO LESS THAN THE MINIMUM SLOPE AS REQUIRED BY THE PREVAILING PLUMBING CODE.
   A. IN ACCORDANCE WITH THE UPC: GRAVITY DRAINAGE PIPING 3" AND SMALLER SHALL BE PROVIDED AT NO LESS THAN 1/4 INCH PER FOOT UNIFORM SLOPE AND GRAVITY DRAINAGE PIPING 4" AND LARGER SHALL BE PROVIDED AT NO LESS THAN 1/8 INCH PER FOOT UNIFORM SLOPE.
   B. IN ACCORDANCE WITH THE IPC: GRAVITY DRAINAGE PIPING 2-1/2" AND SMALLER SHALL BE PROVIDED AT NO LESS THAN 1/4 INCH PER FOOT UNIFORM SLOPE AND GRAVITY DRAINAGE PIPING 3" AND LARGER SHALL BE PROVIDED AT NO LESS THAN 1/8 INCH PER FOOT UNIFORM SLOPE.
   C. WHERE THE PREVAILING CODE REQUIRES A STEEPER SLOPE THAN INDICATED ABOVE (SUCH AS FOR GREASE WASTE PIPING) THEN SUCH REQUIREMENT SHALL CONTROL.
10. SLOPE ALL VENT PIPE BACK FROM THE VENT TERMINAL AT A MINIMUM 6" PER 100 FEET OF RUN.
11. THE DISCHARGE LINE FROM ANY EJECTOR OR PUMP WHICH CONNECTS TO A HORIZONTAL GRAVITY DRAINAGE LINE SHALL BE FROM THE TOP, THROUGH A WYE BRANCH FITTING.
12. PROVIDE FITTINGS FOR DRAINAGE WASTE AND VENT (DWV) AND STORM PIPING SYSTEMS OF APPROVED DRAINAGE PATTERN AND LONG OR SHORT RADIUS TYPES AS REQUIRED AND APPROVED FOR USE IN COMPLIANCE WITH PLUMBING CODE REQUIREMENTS.
13. PROVIDE CLEANOUTS AT EACH CHANGE OF DRAINLINE DIRECTION GREATER THAN 45° AND IN COMPLIANCE WITH PLUMBING CODE REQUIREMENTS.
14. PROVIDE BRACING TO PREVENT AXIAL MOVEMENT FOR ALL DRAINAGE PIPING. PROVIDE RESTRAINTS AT ALL CHANGES IN DIRECTION AND AT ALL DIAMETER CHANGES GREATER THAN TWO PIPE SIZES. SPECIFICALLY ENGINEERED BRACES, STRAPS, AND CLAMPS CONSISTENT WITH THE PIPE AND COUPLING MANUFACTURER RECOMMENDATIONS, THE APPLICABLE INSTALLATION STANDARDS, AND LOCAL CODE REQUIREMENTS SHALL BE ACCEPTABLE. HOLDRITE OR PRE-APPROVED EQUIVALENT PRODUCTS.
15. PROVIDE ISOLATING BALL VALVES FOR ALL BRANCHES OFF DOMESTIC WATER MAINS. ALL PLUMBING SYSTEM VALVES SHALL BE INSTALLED IN ACCESSIBLE CEILING SPACES. WHERE CEILING IS NOT ACCESSIBLE, OR SPACE IS CONFLICTING, VALVES SHALL BE INSTALLED IN PARTITIONS OR PIPE CHASES. PROVIDE MILCOR STYLE 'K' PAINTED STEEL HINGED ACCESS PANELS IN LOCATIONS PRE-APPROVED BY THE ARCHITECT.
16. ALL HOT WATER AND HOT WATER CIRCULATING PIPING SHALL BE PROVIDED WITH FIBERGLASS INSULATION WITH ALL SERVICE JACKET AND SELF SEALING LAP JOINT AS FOLLOWS:
   A. 1" THICK INSULATION FOR PIPE SIZES 1-1/4" AND SMALLER.
   B. 1-1/2" THICK INSULATION FOR PIPE SIZES 1-1/2" AND LARGER.
17. INSTALL EACH WATER HEATER AND ALL OTHER PLUMBING EQUIPMENT WITH ADEQUATE CLEARANCES FOR ACCESS BY SERVICE PERSONNEL AND WITH PROPER ORIENTATION FOR ELEMENT REMOVAL/REPLACEMENT.
18. CONTRACTOR SHALL STERILIZE ALL DOMESTIC WATER PIPING ACCORDING TO AMERICAN WATER WORKS ASSOCIATION (AWWA) SPECIFICATIONS.
19. ALL CAST IRON PIPE, FITTINGS AND INSTALLATION SHALL COMPLY WITH THE CAST IRON SOIL PIPE INSTITUTE (CISPI) STANDARDS.
20. FLASH FLOOR DRAINS IN FLOORS WITH TOPPING OVER FINISHED AREAS WITH 40 MIL PVC MEMBRANE, 10 INCHES CLEAR ON SIDES WITH MINIMUM 36 X 36 INCH SHEET SIZE. FASTEN WATERPROOFING MEMBRANE FLASHING TO DRAIN CLAMPING DEVICE.
21. NO PLUMBING PIPING SHALL BE ROUTED OVER MAJOR MECHANICAL EQUIPMENT, MDF/IDF/DATA CLOSETS, ELECTRICAL ROOMS, OR ANY SUCH EQUIPMENT.
22. COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND ALSO TO MINIMIZE INTERRUPTION OF SERVICES FOR RENOVATIONS.
23. THE PROPER INSTALLATION OF NEW FIXTURES AND THE PROPER CONTINUED OPERATION OF EXISTING BUILDING FIXTURES TO REMAIN (FOR RENOVATIONS) SHALL GOVERN THE EXTENT AND NATURE OF WORK.
24. FOR RENOVATIONS THE CONTRACTOR SHALL MAKE ARRANGEMENTS IN ADVANCE WITH THE OWNER PRIOR TO ANY NECESSARY SHUT DOWN OF THE DOMESTIC WATER OR ANY OTHER SERVICE. ANY SUCH SHUT DOWN SHALL BE AT A TIME AND FOR A DURATION SATISFACTORY TO THE OWNER, WHO SHALL MAKE THE FINAL DETERMINATION AS TO ITS ACCEPTABILITY.
25. RENOVATIONS SITE INSPECTIONS: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMITTING A BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND EXACT NATURE OF WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN THE CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDS FOR ANY OMISSION WHICH RESULTS FROM FAILURE TO MAKE SUCH A THOROUGH EXAMINATION. NOTE THAT FOR GRAPHICAL CLARITY, ALL EXISTING PIPING TO REMAIN OR BE ABANDONED IN PLACE MAY NOT BE SHOWN ON THE FLOOR PLANS.

DEMOLITION NOTES:

1. FIELD VERIFY AS NECESSARY THE EXACT LOCATIONS/ROUTINGS/SIZES OF PLUMBING FIXTURES, PIPING, AND EQUIPMENT TO BE REMOVED OR RE-USED. REFER TO ARCHITECTURAL DRAWINGS FOR CLARIFICATION AS REQUIRED.
2. ALL PLUMBING FIXTURES/EQUIPMENT NOT SPECIFICALLY IDENTIFIED FOR REMOVAL SHALL REMAIN. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES/CONFLICTS FOUND IN THE FIELD.
3. UNLESS NOTED OTHERWISE, WHERE FIXTURES ARE TO BE REMOVED: REMOVE FIXTURE, CARRIER, FAUCET/FLUSH VALVE, SUPPLIES/STOPS, TUBULAR BRASS, AND ASSOCIATED PIPING AS DESCRIBED.
4. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS, WHERE EACH NEW WALL HUNG FIXTURE WILL BE PROVIDED AND WHERE EACH EXISTING WALL HUNG FIXTURE WILL BE RE-INSTALLED, A NEW CORRESPONDING FIXTURE CARRIER SHALL ALSO BE PROVIDED. THIS REQUIREMENT SHALL APPLY TO ONE-FOR-ONE FIXTURE REPLACEMENTS AND ALL ADJUSTMENTS TO WALL HUNG FIXTURE LOCATIONS AND FIXTURE HEIGHTS. ALL WORK ASSOCIATED WITH PROVIDING SUCH CARRIERS SHALL BE INCLUDED IN THE PROJECT SCOPE WITH NO EXCEPTIONS.
5. ALL PLUMBING FIXTURES AND/OR EQUIPMENT REMOVED SHALL BE SUBMITTED TO THE OWNER WITH THE OPTION TO BE REUSED, WHICH SHALL BE SOLELY AT THE DISCRETION OF THE OWNER. ITEMS THE OWNER DOES NOT WISH TO REUSE BUT WISHES TO RETAIN SHALL BE DELIVERED TO STORAGE AS DIRECTED. ITEMS THE OWNER DOES NOT WISH TO REUSE OR RETAIN SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF LEGALLY.
6. REMOVE ALL PIPING FROM ABOVE FLOOR TO BELOW ROOF/FLOOR ABOVE WHICH WAS PREVIOUSLY ABANDONED OR WHICH SERVES PLUMBING FIXTURES DESIGNATED FOR REMOVAL, UNLESS NEW FIXTURES ARE TO BE INSTALLED IN THOSE LOCATIONS - REFER TO PLUMBING FLOOR PLANS. PRIOR TO ANY REMOVAL, FIELD VERIFY THAT LINES TO BE REMOVED DO NOT SERVE ANY FIXTURES TO REMAIN. CAP REMOVED BRANCH LINES AS CLOSE AS POSSIBLE TO EXISTING MAINS TO REMAIN.
7. WHERE SLAB ON GRADE FLOOR DRAINS OR SIMILAR INSTALLATIONS ARE TO BE REMOVED, THE STRAINER AND DRAIN BODY SHALL BE REMOVED. PLUG THE WASTE PIPE WATERTIGHT BELOW FINISHED FLOOR. PATCH AND REFINISH THE FLOOR TO MATCH EXISTING.
8. AT PLUMBING WASTE/VENT PIPE PENETRATIONS THROUGH SLAB ON GRADE NO LONGER REQUIRED, PLUG THE PIPES WATERTIGHT BELOW FINISHED FLOOR. PATCH AND REFINISH THE FLOOR TO MATCH EXISTING.
9. WHERE BURIED WASTE/VENT BRANCH LINES ARE PLUGGED AND ABANDONED IN PLACE, THE ABANDONED LINES SHALL REMAIN OTHERWISE SERVICEABLE AND THE REMAINING PIPING SYSTEM SHALL REMAIN INTACT AND FUNCTIONAL.
10. WHERE FIXTURES ARE REMOVED, NO NEW FIXTURES ARE TO BE INSTALLED, AND EXISTING VENTS THROUGH ROOF ARE NO LONGER REQUIRED, VENT TERMINALS ARE TO BE COMPLETELY REMOVED UNLESS NOTED OTHERWISE. THE ROOF SHALL BE REPAIRED AND SEALED WATERTIGHT TO MATCH THE EXISTING ROOF SYSTEM.
11. IN THE COURSE OF DEMOLITION, ANY PIPING TO REMAIN THAT IS EXPOSED AND FOUND TO BE UNLABELED SHALL BE IDENTIFIED AND LABELED ACCORDINGLY. PROVIDE PIPE MARKERS TO INDICATE TYPE OF SERVICE AND DIRECTION OF FLOW.
12. IN THE COURSE OF DEMOLITION, THE CONTRACTOR SHALL ASSIST THE OWNER BY BRINGING TO THE DESIGN TEAM'S ATTENTION ANY EXISTING PLUMBING RELATED ITEMS INTENDED TO REMAIN BUT WHICH ARE FOUND TO BE UNFIT FOR SERVICE OR IN NEED OF REPAIR. THIS SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, THE FOLLOWING: LEAKING OR DETERIORATED PIPING AND VALVES; IMPROPERLY SLOPED/SUPPORTED OR SAGGING PIPE; MISSING, DAMAGED, OR DETERIORATED INSULATION; CODE REQUIRED BUT MISSING BACKFLOW PREVENTION MEASURES; FIXTURES, FLUSH VALVES, FAUCETS, EQUIPMENT, AND APPURTENANCES NOT FUNCTIONING AS INTENDED.
13. IN THE COURSE OF DEMOLITION, THE CONTRACTOR SHALL ASSIST THE OWNER BY BRINGING TO THE DESIGN TEAM'S ATTENTION ANY EXISTING NON-PLENUM RATED PIPING (PVC, ETC.) INTENDED TO REMAIN WHICH IS FOUND IN A RETURN AIR PLENUM SPACE. UNLESS DEEMED UNACCEPTABLE BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) OR OWNER, ALL SUCH PIPING SHALL BE WRAPPED WITH FIRE RESISTANT INSULATION. 3M FIRE BARRIER PLENUM WRAP 5A OR PRE-APPROVED EQUAL THAT HAS BEEN TESTING IN ACCORDANCE WITH ASTM E84 AND UL 910. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDED METHODS.

FIXTURES NOTES

1. DO NOT ROUGH-IN UNDERGROUND PIPING OR ANY OTHER CONNECTIONS FOR FIXTURES FROM THE PLUMBING DRAWINGS. REFER TO LATEST ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DIMENSIONED LOCATIONS. COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH THE LATEST ARCHITECTURAL DRAWINGS, SPECIFICATIONS, AND MANUFACTURER RECOMMENDATIONS PRIOR TO ANY ROUGH-INS.
2. CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS AND DIMENSIONS OF FINISHED FLOORS AND WALLS. TRUE ALL DRAINS, ROUGH-INS AND CARRIERS IN ACCORDANCE WITH THE PROPOSED ELEVATIONS AND FINISHED SURFACES.
3. THE MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG AND COUNTER MOUNTED FIXTURES SHALL BE COORDINATED WITH THE LATEST ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-IN WORK.
4. PROVIDE LABOR AND MATERIALS AS REQUIRED TO MAKE FINAL CONNECTIONS TO ALL PLUMBING FIXTURES, EQUIPMENT, AND RELATED ITEMS FURNISHED UNDER SEPARATE DIVISIONS. INSTALL ASSOCIATED TRIM AND COMPONENT ACCESSORIES FURNISHED UNDER SEPARATE DIVISIONS.
5. CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF ACTUAL EQUIPMENT TO BE SUPPLIED FOR THE FINAL COORDINATION OF ALL ROUGH-INS BEFORE BEGINNING WORK.
6. ALL FIXTURE AND EQUIPMENT STUB-OUTS SHALL BE PROVIDED WITH A STOP VALVE. UNLESS SPECIFIED OTHERWISE, ALL FIXTURE STOPS SHALL BE SOLID BRASS, LOOSE KEY OPERATED, CHROME PLATED, AND FITTED TIGHT TO CHROME PLATED BRASS WALL ESCUTCHEON PLATES COMPLETE WITH SUPPLY RISERS OF TYPE 'L' TUBING, CHROME PLATED. MCGUIRE MANUFACTURING OR PRE-APPROVED EQUAL.
7. ALL EXPOSED FIXTURE P-TRAPS WITHIN THE BUILDING AND ABOVE FLOOR SHALL BE CHROME PLATED ADJUSTABLE, HEAVY CAST BRASS WITH CLEANOUT PLUG, SLIP NUTS, AND 17 GAUGE SEAMLESS TUBULAR BRASS DRAIN TO WALL WITH WALL FLANGE. MCGUIRE MANUFACTURING OR PRE-APPROVED EQUAL.
8. EACH FIXTURE TRAP SHALL HAVE A LIQUID SEAL OF NOT LESS THAN 2 INCHES AND NOT MORE THAN 4 INCHES, EXCEPT WHERE A DEEPER SEAL IS FOUND NECESSARY BY THE AUTHORITY HAVING JURISDICTION.
9. ALL ROUGH IN OPENINGS SHALL BE FITTED WITH CHROME PLATED SOLID RING TYPE ESCUTCHEON PLATES FITTED TIGHT TO THE PIPE AND FLUSH TO THE WALL.
10. ALL EXPOSED TAILPIECES, P-TRAPS, TRAP ARMS, ASSOCIATED HARDWARE AND ESCUTCHEONS SHALL BE CHROME PLATED.
11. ALL FIXTURES INDICATED AS OR REQUIRED TO BE HANDICAPPED ACCESSIBLE ("ADA" OR "TAS") SHALL BE PROVIDED IN APPROVED TYPES, WITH REQUIRED CONTROLS AND PROVIDED WITH THE REQUIRED HEIGHTS AND CLEARANCES. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONED MOUNTING HEIGHTS AND SPECIFIED CLEARANCE REQUIREMENTS.
12. ALL EXPOSED LAVATORY AND SINK PIPING FOR ACCESSIBLE FIXTURES SHALL BE INSULATED WITH APPROVED, MANUFACTURED MOLDED VINYL COVERS BY TRUEBRO OR APPROVED EQUAL. PROVIDE OFFSET DRAIN FITTINGS WHERE REQUIRED TO ENSURE REQUIRED MINIMUM CLEARANCES.
13. ALL ACCESSIBLE SINKS SHALL BE PROVIDED WITH DRAIN OUTLETS LOCATED ACCORDINGLY TOWARD THE REAR OF BASIN.
14. ENSURE TO ORIENT ALL ACCESSIBLE WATER CLOSET FLUSH OPERATORS ON THE "WIDE" SIDE OF THE FIXTURE ENCLOSURE.
15. SEAL ALL SPACES BETWEEN PLUMBING FIXTURES AND MOUNTING SURFACES WITH WHITE SILICONE CAULK WIPED SMOOTH AND FLUSH WITH FIXTURE.
16. FLOOR DRAINS SHALL BE INSTALLED AT LOW POINTS OF SLOPED FLOORS. CONTRACTOR SHALL FIELD COORDINATE WITH STRUCTURAL TO WITH INTENDED ARCHITECTURAL FLOOR FINISHES TO ENSURE THAT DRAINS ARE LOCATED ACCORDINGLY.
17. PROVIDE A COMPATIBLE WATER FILTER AT EACH ICE MAKING MACHINE.
18. ALL SINKS AND URINALS SHALL BE PROVIDED WITH WALL CLEANOUTS.
19. SHOCK ARRESTORS SHALL CONFORM WITH THE REQUIREMENTS OF ASSE 1010 AND SHALL BE SIZED AND LOCATED PER THE PLUMBING AND DRAINAGE INSTITUTE STANDARD WH-201. PROVIDE ACCESS PANELS SIZED ACCORDINGLY TO ENSURE MAINTENANCE AND REPLACEMENT ACCESS TO ALL SHOCK ARRESTORS. FINAL LOCATIONS AND SIZES OF REQUIRED ACCESS PANELS SHALL BE REVIEWED FOR APPROVAL BY THE ARCHITECT PRIOR TO INSTALLATION.

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PLUMBING GENERAL NOTES

P0.11

1 **LEVEL 01 - DEMOLITION PLUMBING PLAN**
1/16" = 1'-0"

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LEVEL 01 - DEMOLITION PLUMBING PLAN

P2.11

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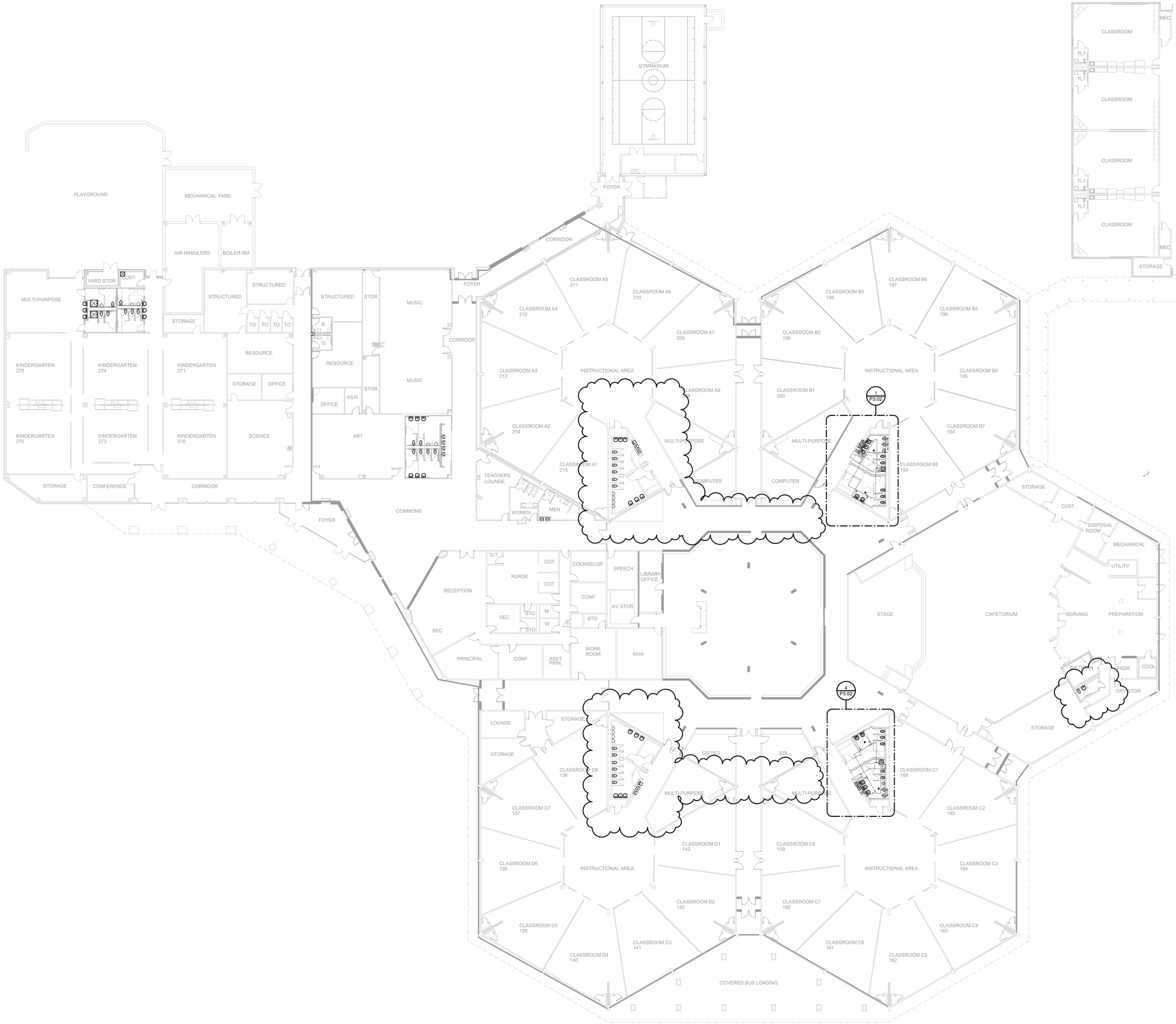

PLUMBING KEYED NOTES

1 LEVEL 01 - PLUMBING PLAN

1/16" = 1'-0"

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LEVEL 01 - PLUMBING PLAN

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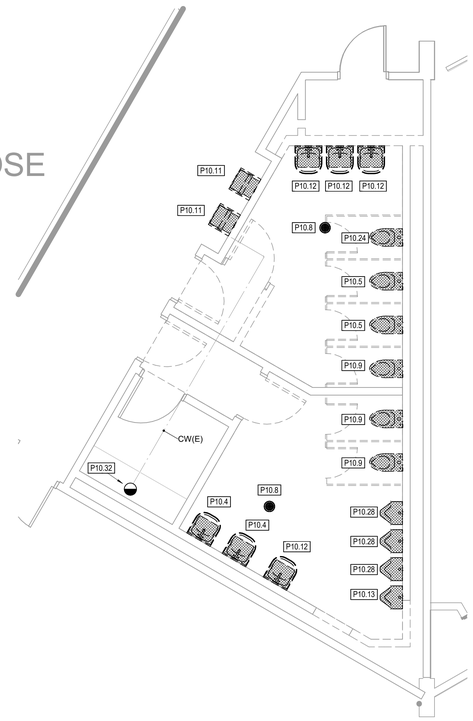
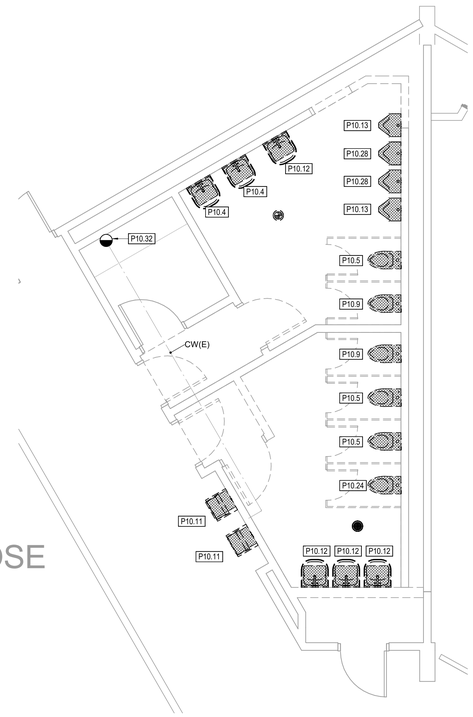


1 LEVEL 01 - DEMOLITION PLUMBING PLAN - INSTRUCTIONAL AREA NE RESTROOMS

1/4" = 1'-0"



4 LEVEL 01 - DEMOLITION PLUMBING PLAN - INSTRUCTIONAL SE RESTROOMS

1/4" = 1'-0"

MULTI-PURPOSE

PLUMBING KEYED NOTES

P10.4 REMOVE EXISTING LAVATORY. MODIFY EXISTING PLUMBING PIPING FOR NEW LAVATORY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.5 REMOVE EXISTING WATER CLOSET. MODIFY EXISTING PLUMBING PIPING FOR NEW WATER CLOSET. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.8 APPROXIMATE LOCATION OF EXISTING 3" FLOOR DRAIN; PREPARE FLOOR DRAIN FOR NEW STRAINER AND GRATE. NEW GRATE WILL BE SQUARE IN LIEU OF ROUND. PREPARE SURROUNDING FLOOR AS REQUIRED.

P10.9 REMOVE EXISTING WATER CLOSET IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.11 REMOVE EXISTING DRINKING FOUNTAIN. MODIFY EXISTING PLUMBING PIPING FOR NEW WATER FOUNTAIN. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.12 REMOVE EXISTING LAVATORY IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.13 REMOVE EXISTING URINAL IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.24 REMOVE EXISTING WATER CLOSET. MODIFY EXISTING PLUMBING PIPING FOR NEW URINAL. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.28 REMOVE EXISTING URINAL. MODIFY EXISTING PLUMBING PIPING FOR NEW WATER CLOSET. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.32 REMOVE EXISTING 1/2" WATER LINE CONNECTED TO EXISTING DRINKING FOUNTAIN(S). CAP AND ABANDON IN PLACE.

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P3.01

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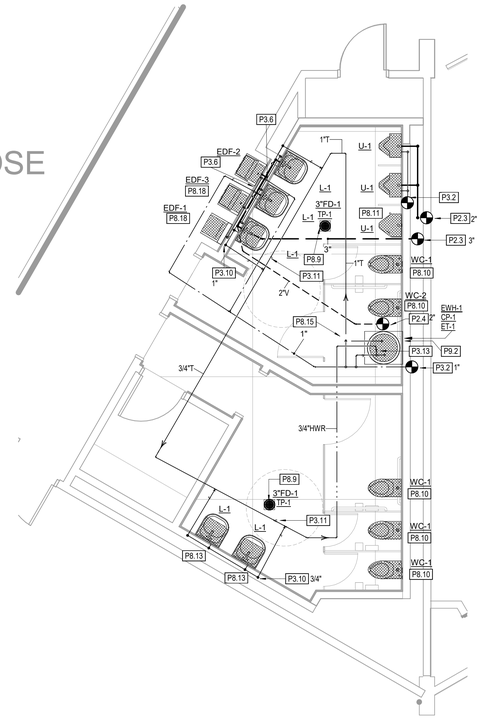
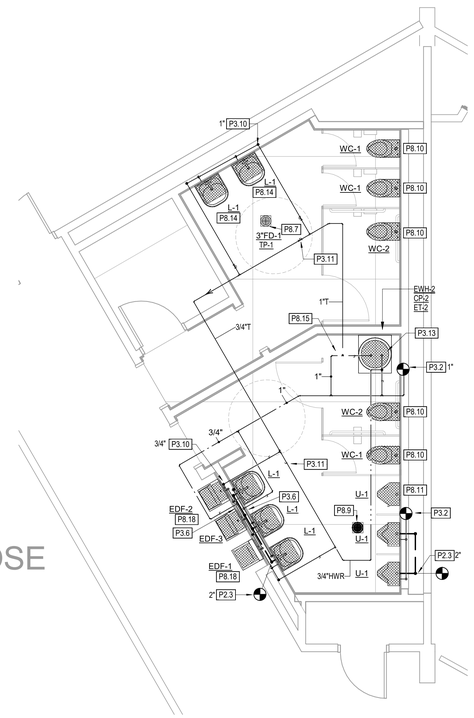
MULTI-PURPOSE



1 LEVEL 01 - PLUMBING PLAN - INSTRUCTIONAL AREA NE RESTROOMS
1/4" = 1'-0"



4 LEVEL 01 - PLUMBING PLAN - INSTRUCTIONAL SE RESTROOMS
1/4" = 1'-0"

MULTI-PURPOSE

PLUMBING KEYED NOTES

P2.3 MODIFY AS REQUIRED AND CONNECT NEW SANITARY WASTE BELOW FLOOR TO EXISTING OF EQUAL OR GREATER SIZE.

P2.4 MODIFY AS REQUIRED AND CONNECT NEW VENT ABOVE CEILING TO EXISTING OF EQUAL OR GREATER SIZE.

P3.2 MODIFY AS REQUIRED AND CONNECT NEW COLD WATER ABOVE CEILING TO EXISTING OF EQUAL OR GREATER SIZE.

P3.6 DROP AND EXTEND 3/4" COLD WATER TO SERVE FIXTURE(S).

P3.10 HOT WATER DROP DOWN TO, RISE UP FROM, AND CIRCULATED HOT WATER LINE INSIDE WALL/CHASE AND WITHIN 2'-0" OF HOT WATER ROUGH-IN TO LAVATORY FOR 2015 IECC COMPLIANCE. SIZE AS NOTED.

P3.11 PROVIDE NORMALLY CLOSED BYPASS VALVE ON HOT WATER LOOP.

P3.13 HOT WATER RETURN BALANCING VALVE. SET TEMP AND FLOW AS SHOWN IN DRAWINGS.

P8.7 NEW FLOOR DRAIN LOCATION EXTENDED FROM EXISTING LOCATION. SAW-CUT SLAB AND PATCH TO MATCH AS NECESSARY.

P8.9 REPLACE EXISTING FLOOR DRAIN GRATE AND STRAINER IN SAME LOCATION. FLOOR DRAIN GRATE SHALL BE SQUARE TYPE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION. FLOOR DRAIN LOCATIONS WERE TAKEN FROM EXISTING ENGINEERING DRAWINGS ON FILE.

P8.10 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW WATER CLOSET. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW WATER CLOSET.

P8.11 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW URINAL. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW URINAL.

P8.13 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW DRINKING FOUNTAIN. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE DRINKING FOUNTAIN.

P8.14 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW LAVATORY/LAVATORIES. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW LAVATORY/LAVATORIES.

P8.15 PROVIDE (TMV-1) HYDROGUARD SERIES LFLM490 THERMOSTATIC TEMPERING VALVE FOR HOT WATER DISTRIBUTION.

P8.18 EXTEND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW DRINKING FOUNTAIN. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE DRINKING FOUNTAIN.

P9.2 SUSPENDED ELECTRIC WATER HEATER T&P RELIEF VALVE AND DRAIN PAN SHALL DISCHARGE TO NEW FUNNEL DRAIN.

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PLUMBING FIXTURE SCHEDULE

PLAN MARK	MINIMUM ROUGH-IN SIZES					DESCRIPTION
	WASTE & VENT		DRAIN	CW	HW	
WATER CLOSET WC-1	4"	2"	4"	1-1/2"	---	AMERICAN STANDARD No. 2257.101"AFWALL" WHITE V.C. ELONGATED SIPHON JET WALL HUNG (1.28 GPF) BOWL WITH TOP SPUD
FLUSH VALVE						SLOAN REGAL No. 111-1.28 FLUSH VALVE LOW CONSUMPTION (MANUAL) VALVE. POLISHED CHROME FINISH.
ACCESSORIES						BEMIS 1655-SS/CT EXTRA HEAVY DUTY TOILET SEAT, BLACK,ELONGATED BOWL, OPEN SEAT LESS COVER WITH SELF-SUSTAINING, STAINLESS STEEL CHECK HINGE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CARRIER. FOR FULL DESCRIPTION REFER TO PROJECT SPECIFICATIONS. REFER TO ARCHITECTS PLANS FOR ADA MOUNTING HEIGHT.
WATER CLOSET WC-2 ADA	4"	2"	4"	1-1/2"	---	AMERICAN STANDARD No. 2257.101"AFWALL" SAME AS ABOVE EXCEPT WITH TRIM AS REQUIRED FOR ADA USE. REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT.
URINAL U-1 ADA	2"	2"	2"	3/4"	---	AMERICAN STANDARD No. 6590.001 "WASHBROOK" WHITE V.C. WASHOUT FIXTURE (0.125 GPF) WITH WALL HANGERS, MOUNTING BRACKET, CHROME FINISH BEEHIVE STRAINER, TOP SPUD
FLUSH VALVE						SLOAN REGAL No. 111-0.5 FLUSH VALVE LOW CONSUMPTION (MANUAL) VALVE. POLISHED CHROME FINISH.
ACCESSORIES						PROVIDE ZURN OR EQUAL FLOOR MOUNTED CARRIER. FOR FULL DESCRIPTION REFER TO PROJECT SPECIFICATIONS, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT.
LAVATORY L-1 WALL MOUNT - ADA	2"	2"	1-1/4"	3/4"	3/4"	AMERICAN STANDARD LUCERNE 0356.421 WALL HUNG LAVATORY WITH FRONT OVERFLOW AND FAUCET HOLES DRILLED ON 4" CENTERS, WHITE VITREOUS CHINA.
FAUCET						CHICAGO No. 802-VE2805-317ABCP (0.5 GPM) CENTERSET FAUCET WITH VANDAL PROOF WRIST BLADE HANDLES.
ACCESSORIES						REFER TO PLUMBING SUPPLIES AND TRIM SCHEDULE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS.
ELECTRIC DRINKING FOUNTAIN EDF-1 ADA (LOWSIDE)	2"	2"	1-1/4"	3/4"	---	HALSEY TAYLOR No. HTHB-HACG8SS-WF BOTTLE FILLING STATION & SINGLE COOLER FILTERED REFRIGERATED STAINLESS. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50° F DRINKING WATER, BASED ON 80° F INLET WATER AND 90° F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE FILTERED, GREEN TICKER, LAMINAR FLOW, REAL DRAIN, VANDAL RESISTANT, VISUAL FILTER MONITOR. FURNISHED WITH VANDAL RESISTANT BUBBLER. ELECTRONIC BOTTLE FILLER BUTTON WITH MECHANICAL FRONT BUBBLER BUTTON ACTIVATION. PRODUCT SHALL BE WALL MOUNT (ON WALL), FOR INDOOR APPLICATIONS, SERVING 1 STATION(S). UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120.
ELECTRICAL REQUIREMENTS						1/5 HP, 4.0 FL. AMPS. WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS.
ACCESSORIES						REFER TO PLUMBING SUPPLY AND TRIM SCHEDULE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS.
ELECTRIC DRINKING FOUNTAIN EDF-2 (HIGHSIDE)	2"	2"	1-1/4"	3/4"	---	HALSEY TAYLOR No. HAC8SS-WF WALL MOUNT ADA COOLER FILTERED 8.0 GPH STAINLESS. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50° F DRINKING WATER, BASED ON 80° F INLET WATER AND 90° F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE FILTERED, FURNISHED WITH DOUBLE BUBBLER, MECHANICAL FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION. PRODUCT SHALL BE WALL MOUNT (ON WALL), FOR INDOOR APPLICATIONS, SERVING 1 STATION(S0. UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120.
ELECTRICAL REQUIREMENTS						1/5 HP, 4.0 FL. AMPS. WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS.
ACCESSORIES						REFER TO PLUMBING SUPPLY AND TRIM SCHEDULE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS.
ELECTRIC DRINKING FOUNTAIN EDF-3 ADA (HIGHSIDE)	2"	2"	1-1/4"	3/4"	---	HALSEY TAYLOR No. HTHB-HACGBSS-WF BOTTLE FILLING STATION & SINGLE COOLER FILTERED REFRIGERATED STAINLESS. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50° F DRINKING WATER, BASED ON 80° F INLET WATER AND 90° F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE FILTERED, GREEN TICKER, LAMINAR FLOW, REAL DRAIN, VANDAL RESISTANT, VISUAL FILTER MONITOR. FURNISHED WITH VANDAL RESISTANT BUBBLER. ELECTRONIC BOTTLE FILLER BUTTON WITH MECHANICAL FRONT BUBBLER BUTTON ACTIVATION. PRODUCT SHALL BE WALL MOUNT (ON WALL), FOR INDOOR APPLICATIONS, SERVING 1 STATION(S). UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120.
ELECTRICAL REQUIREMENTS						1/5 HP, 4.0 FL. AMPS. WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS.
ACCESSORIES						REFER TO PLUMBING SUPPLY AND TRIM SCHEDULE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS.

*.- REFER TO DRAWINGS FOR SIZING.
GENERAL NOTES:
1. FOR ALL SUPPLY STOPS AND TRIM REFER TO THE PLUMBING FIXTURE SUPPLIES AND TRIM SCHEDULE.
2. FOR MOUNTING HEIGHTS OF INDIVIDUAL FIXTURES, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
3. CONTRACTOR TO COORDINATE LOCATION OF DRAINS AND FLOOR SINKS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

PLUMBING FIXTURE SCHEDULE

PLAN MARK	MINIMUM ROUGH-IN SIZES					DESCRIPTION
	WASTE & VENT		DRAIN	CW	HW	
THERMOSTATIC MIXING VALVE TMV-1	---	---	---	1/2"	1/2"	POWERS WATTS MODEL: LFLM490 LEAD FREE THERMOSTATIC MIXING VALVE, ASSE 1070 WITH INLET CHECK STOPS TO LIMIT HOT WATER TEMPERATURE. SET TEMPERATURE AT 110°. PROVIDE WITH MOUNTING BRACKET.
FLOOR DRAIN FD-1	3"	2"	3"	---	---	ZURN No. ZN-415 CAST IRON DRAIN WITH 6" DIAMETER TYPE 'B' STRAINER AND 1/2" IPS TRAP PRIMER CONNECTION. FOR FLOOR DRAIN BODY POURED IN CONCRETE SLAB PROVIDE ZURN Z1023 TRAP PRIMER EXTENSION.
TRAP PRIMER TP-1	---	---	---	1/2"	---	PRECISION PLUMBING PRODUCTS, INC. FLUSH VALVE PRIMER No. FVP-1VB WITH VACUUM BREAKER TRAP REFILL SUPPLY. CONTRACTOR TO INSTALL PRIMER ON NEAREST WATER CLOSET TO FLOOR DRAIN SUPPLIED. ALL EXPOSED PIPING SHALL BE CHROME PLATED AND CONCEALED SUPPLY TUBING SHALL BE 1/2" TYPE "K" SOFT COPPER.
WALL CLEANOUT WCO	---	---	---	---	---	ZURN No. ZN-1440 DURO-COATED CAST IRON CLEANOUT TEE WITH COUNTER-SUNK GASKET, WATERTIGHT THREADED PLUG AND ZURN 1460 SQUARE SMOOTH ACCESS COVER WITH VANDAL PROOF SCREWS.
FLOOR CLEANOUT FCO	---	---	---	---	---	ZURN No.ZN-1400 CAST IRON CLEANOUT WITH COUNTER-SUNK PLUG AND ROUND SCORIATED TOP FOR GENERAL PURPOSE AREAS. PROVIDE VARIATION AS REQUIRED FOR FLOOR FINISH WHERE INSTALLED. SEE ARCHITECT DWG'S FOR FLOOR TYPES.
GRADE CLEANOUT GCO	---	---	---	---	---	ZURN No. Z-1402 DURO-COATED CAST IRON CLEANOUT WITH WATERTIGHT COUNTER-SUNK PLUG AND SCORIATED SECURED TOP WITH FRAME. INSTALL IN 18"x18"x6" THICK CONCRETE PAD.

* - REFER TO DRAWINGS FOR SIZING.
GENERAL NOTES:
1. FOR ALL SUPPLY STOPS AND TRIM REFER TO THE PLUMBING FIXTURE SUPPLIES AND TRIM SCHEDULE.
2. FOR MOUNTING HEIGHTS OF INDIVIDUAL FIXTURES, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
3. CONTRACTOR TO COORDINATE LOCATION OF DRAINS AND FLOOR SINKS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

PLUMBING FIXTURE SUPPLIES AND TRIM

FIXTURE	MANUFACTURER	STRAINER	P-TRAP	SIZE	ANGLE STOP AND SUPPLY RISER
LAVATORY	McGUIRE	HD155A	8872	1-1/4"	LFBV2165-LK, 1/2" I.P.S. X 3/8" O.D.
DRINKING FOUNTAIN	McGUIRE	HD155A	8872	1-1/4"	LFBV2165-LK, 1/2" I.P.S. X 3/8" O.D.
SINK	McGUIRE	152N	8912	1-1/2"	LFBV2165-LK, 1/2" I.P.S. X 3/8" O.D.
2 COMPARTMENT SINK, NO DISPENSER	McGUIRE	(2) 152N WITH CONTINUOUS WASTE 111C16G17	8912	1-1/2"	LFBV2165-LK, 1/2" I.P.S. X 3/8" O.D.

NOTE:

1. STRAINERS SHALL BE HEAVY CAST BRASS CHROME PLATED WITH MATCHING GRID TYPE STRAINER, WITH OR WITHOUT OVERFLOW AS REQUIRED. 17 GAUGE SEAMLESS BRASS TAILPIECE OF LENGTH DETERMINED BY INSTALLATION REQUIREMENTS. PROVIDE COMPLETE WITH WASHERS AND BRASS LOCKNUT.

2. P-TRAPS SHALL BE 17 GAUGE SEAMLESS CHROME-PLATED BRASS, ADJUSTABLE TYPE. PROVIDE COMPLETE WITH CLEANOUT PLUG, CHROME-PLATED BRASS SLIP NUTS, WALL BEND, AND WROUGHT BRASS ESCUTCHEON OF DEPTH DETERMINED BY INSTALLATION REQUIREMENTS.

3. ANGLE STOPS SHALL BE LEAD-FREE COMMERCIAL PATTERN CHROME-PLATED BRASS, QUARTER-TURN BALL TYPE WITH LOOSE KEY HANDLES. PROVIDE COMPLETE WITH CHROME-PLATED COPPER SUPPLY RISERS AND WROUGHT BRASS ESCUTCHEON OF DEPTH DETERMINED BY INSTALLATION REQUIREMENTS.

4. PIPE TRIM INSULATION SHALL BE COMPLIANT, WHITE MOLDED VINYL, FADE/DISCOLORATION-RESISTANT, BACTERIA/FUNGAL-RESISTANT INSULATION.
5. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CARRIER.

PIPING MATERIAL SCHEDULE

PIPING SYSTEM	PIPING MATERIAL
DOMESTIC HOT& COLD WATER PIPING, WITHIN BUILDING BELOW GRADE	COPPER TUBING: ASTM B88, TYPE K, SOFT ANNEALED
DOMESTIC HOT& COLD WATER PIPING, WITHIN BUILDING ABOVE GRADE	COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN.
SANITARY SOIL, WASTE AND VENT PIPING, BURIED WITHIN 5 FT OF BUILDING, BELOW GRADE	NEWAGE EPOXY COATED CAST IRON PIPE
SANITARY SOIL, WASTE AND VENT PIPING, WITHIN BUILDING, ABOVE GRADE	NEWAGE EPOXY COATED CAST IRON PIPE

GENERAL NOTES:
1. REFER TO PROJECT SPECIFICATIONS FOR FURTHER CLARIFICATION AND COMPLETE PIPING DESCRIPTION.

ELECTRIC WATER HEATER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL #	TYPE	FUEL	GALLONS	HEATING LOAD (BTU/hr)	CW INLET	HW OUTLET	GPH RECOVERY @ 80° TEMP RISE	STANDBY LOSS (%/hour)	ELECTRICAL REQUIREMENTS			
											VOLTS (V)	PHASE	kW	AMPS
ELECTRIC WATER HEATER EWH-1	A.O. SMITH	DEL 20	STORAGE TANK	ELECTRIC	20	13,649	1"	1"	20	0.87	480	3	4.0	4.8
ELECTRIC WATER HEATER EWH-2	A.O. SMITH	DEL-20	STORAGE TANK	ELECTRIC	20	13,649	1"	1"	20	0.87	480	3	4.0	4.8

NOTES:
1. FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS, VERIFY WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

PLAN MARK	MANUFACTURER	MODEL #	DESCRIPTION	ELECTRICAL REQUIREMENTS			
				VOLTS (V)	PHASE	kW	HP
CIRCULATION PUMP CP-1 (EWH-1)	GRUNDFOS	MAGNA3 32-60	ALL STAINLESS STEEL FLANGED PUMP, 1/25 HP WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS AND FITTED WITH REMOTE HEAT SENSING AQUASTAT CONTROLLER. CONTROLLED BY ELECTRICAL CONTRACTOR, DESIGNED AT 15 FT HEAD LOSS.	115	1	85 W	0.04
CIRCULATION PUMP CP-2 (EWH-2)	GRUNDFOS	MAGNA3 32-60	ALL STAINLESS STEEL FLANGED PUMP, 1/25 HP WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS AND FITTED WITH REMOTE HEAT SENSING AQUASTAT CONTROLLER. CONTROLLED BY ELECTRICAL CONTRACTOR, DESIGNED AT 15 FT HEAD LOSS.	115	1	85 W	0.04
THERMAL EXPANSION TANK ET-1	AMTROL	THERM-X-TROL MODEL ST-5-C	ASME THERMAL EXPANSION ABSORBERS, SAFETY RELIEF VALVE, MAXIMUM WORKING PRESSURE 150 PSIG, TOTAL VOLUME 2.0 GALLONS.	--	--	--	--
THERMAL EXPANSION TANK ET-2	AMTROL	THERM-X-TROL MODEL ST-5-C	ASME THERMAL EXPANSION ABSORBERS, SAFETY RELIEF VALVE, MAXIMUM WORKING PRESSURE 150 PSIG, TOTAL VOLUME 2.0 GALLONS.	--	--	--	--

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TBPE Firm Registration No. 2234
DBR Project # 250076.000
BM RM/TD/LB/MS/TN/JL -

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ANTHONY S. JASPAL
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Project Number

PLUMBING SCHEDULES

P5.01

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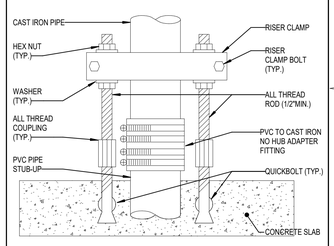
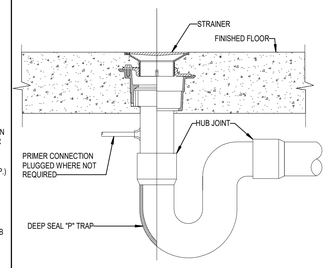
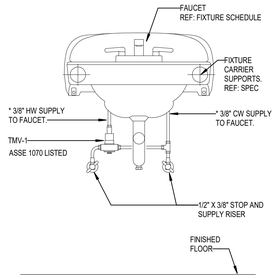


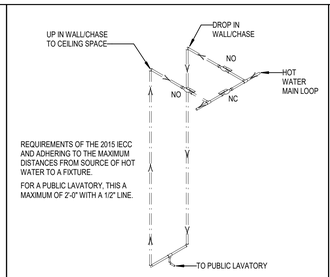
1 PVC TO CAST IRON SUPPORT



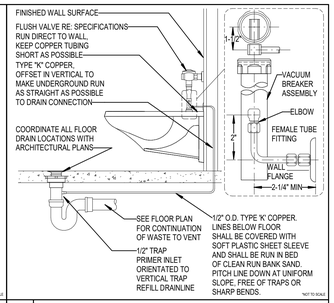
2 FLOOR DRAIN



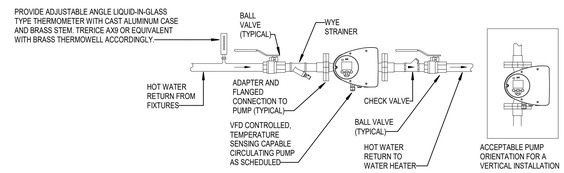
3 TMV-1 INSTALLATION



4 HOT WATER LOOP W/BYPASS



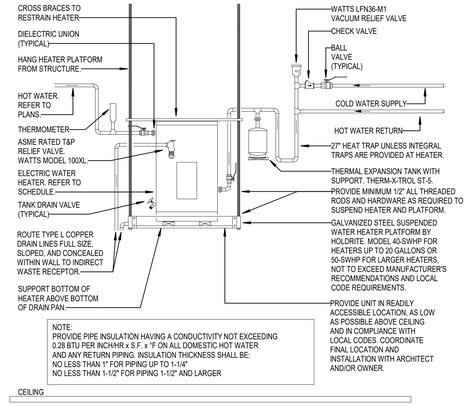
5 TRAP PRIMER



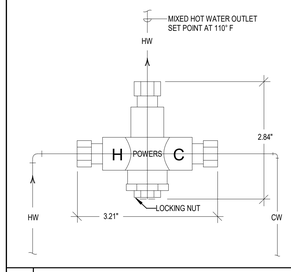
NOTES

1. MOUNT PUMP SECURELY IN AN ACCESSEBLE LOCATION AT 48" A.F.F.
2. ENSURE THERMOMETER IS POSITIONED FOR CLEAR VISIBILITY AND READABILITY FROM A STANDING POSITION AT FLOOR LEVEL.
3. INSULATION IS NOT SHOWN FOR CLARITY BUT SHALL BE PROVIDED AS SPECIFIED.
4. CONTROL BOX SHALL BE ROTATED IN THE FIELD AS NECESSARY PER MANUFACTURER RECOMMENDATIONS TO ENSURE ADEQUATE COOLING. ADDITIONALLY, THE TEMPERATURE OF THE AMBIENT AIR MUST NOT EXCEED 104 DEGREES F.
5. THE PUMP CAN BE INSTALLED IN A HORIZONTAL (AS SHOWN) OR VERTICAL PIPE BUT THE PUMP SHALL ALWAYS BE INSTALLED WITH A HORIZONTAL MOTOR SHAFT. ROTATE PUMP "HEAD" COMPONENT IN THE FIELD AS NECESSARY PER THE MANUFACTURER'S INSTRUCTIONS.
6. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS, THE PUMP SHALL BE SET TO CONSTANT TEMPERATURE CONTROL MODE. THIS MODE SHALL KEEP RETURN PIPE TEMPERATURE CONSTANT AND ALSO LIMIT FLOW TO A MAXIMUM RATE. THE PUMP SHALL AUTOMATICALLY RAMP DOWN WHEN WATER IN THE CIRCULATION LOOP IS AT THE DESIRED TEMPERATURE. REFER TO THE PLANS FOR SYSTEM TEMPERATURE AND FLOW CRITERIA.

6 DOMESTIC HOT WATER CIRCULATOR PIPING INSTALLATION - VFD CONTROLLED "SMART" PUMP



7 SUSPENDED ELECTRICAL WATER HEATER PIPING WITH HOTE WATER RETURN



8 THERMOSTATIC MIXING VALVE

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DBR Project # 250076.000
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HOUSTON, TX 77099

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PLUMBING DETAILS

P6.01

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ALIEF ISD

HEFLIN ELEMENTARY SCHOOL - RESTROOM RENOVATIONS - PACKAGE II

3303 SYNOTT ROAD
HOUSTON, TEXAS 77082

ISSUE FOR BID & PERMIT
MAY 6, 2025

PROJECT LOCATION

PROJECT ADDRESS:
3303 SYNOTT ROAD
HOUSTON, TEXAS 77082

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PROJECT INFORMATION

SCOPE OF WORK: THE SCOPE OF THIS PROJECT IS AN INTERIOR IMPROVEMENT OF SELECT EXISTING RESTROOMS AND REPLACING SELECT EXISTING DRINKING FOUNTAINS WITHIN AN EXISTING ELEMENTARY SCHOOL. WORK TO INCLUDE NEW WALLS, DOORS, MILLWORK AND FINISHES; WITH SOME MECHANICAL, ELECTRICAL AND PLUMBING ADJUSTMENTS.

NO CHANGE TO OCCUPANCY TYPE.

TABS#: 202501838

GOVERNING CODES & REGULATIONS:

GOVERNING AHJ:	CITY OF HOUSTON STATE OF TEXAS
BUILDING CODE:	2021 INTERNATIONAL BUILDING CODE (W/ HOUSTON AMENDMENTS)
MECHANICAL CODE:	2021 UNIFORM MECHANICAL CODE (W/ HOUSTON AMENDMENTS)
ELECTRICAL CODE:	2023 NATIONAL ELECTRICAL CODE
PLUMBING CODE:	2021 UNIFORM PLUMBING CODE (W/ HOUSTON AMENDMENTS)
FIRE CODE:	2021 INTERNATIONAL FIRE CODE (W/ HOUSTON AMENDMENTS)
ENERGY CODE:	2021 INTERNATIONAL ENERGY CONSERVATION CODE (W/ HOUSTON AMENDMENTS)
ACCESSIBILITY:	2012 TEXAS ACCESSIBILITY STANDARDS
BUILDING OWNER:	ALIEF ISD ADMINISTRATION BUILDING 4250 COOK ROAD HOUSTON, TX 77072 JESSE GONZALEZ 281.498.8110 EXT 29582 JESSE.GONZALEZ@ALIEFISD.NET

PROJECT TEAM

CLIENT NAME	ALIEF ISD ADMINISTRATION BUILDING 4250 COOK ROAD HOUSTON, TX 77072	JESSE GONZALEZ 281.498.8110 EXT 29582 jesse.gonzalez@aliefisd.net
OWNDER'S REPRESENTATIVE	ALIEF ISD ADMINISTRATION BUILDING 4250 COOK ROAD HOUSTON, TX 77072	JESSE GONZALEZ 281.498.8110 EXT 29582 jesse.gonzalez@aliefisd.net
ARCHITECT	DLR GROUP 1000 LOUISIANA STREET, SUITE 1100 HOUSTON, TX 77002	AJ SUSTAITA 713.561.3925 asustaita@dlrgroup.com
MEP ENGINEER	DBR INC. 9990 RICHMOND AVE, SUITE 300 HOUSTON, TX 77042	BRENT MOE 713.914.0888 bmoe@dbrinc.com

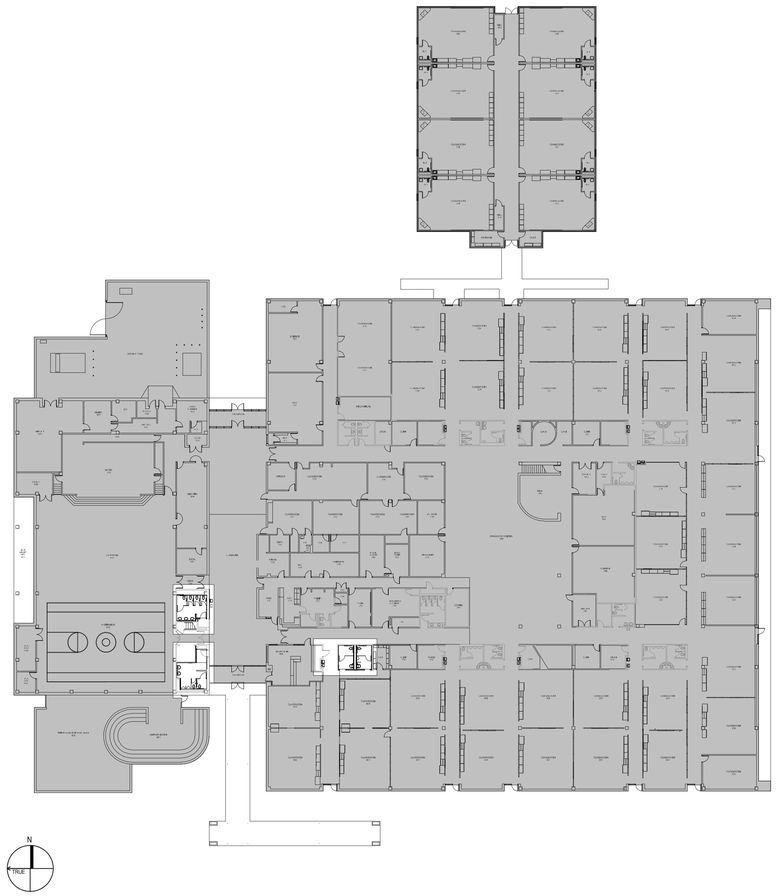
ALTERNATE PRICING

1. X
2. X

DEFERRED SUBMITTALS

NA

KEY PLANS



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A1.1	OVERALL - FLOOR PLAN
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4 02-11-26 ISSUE FOR BID & PERMIT

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COVER SHEET

G0.1

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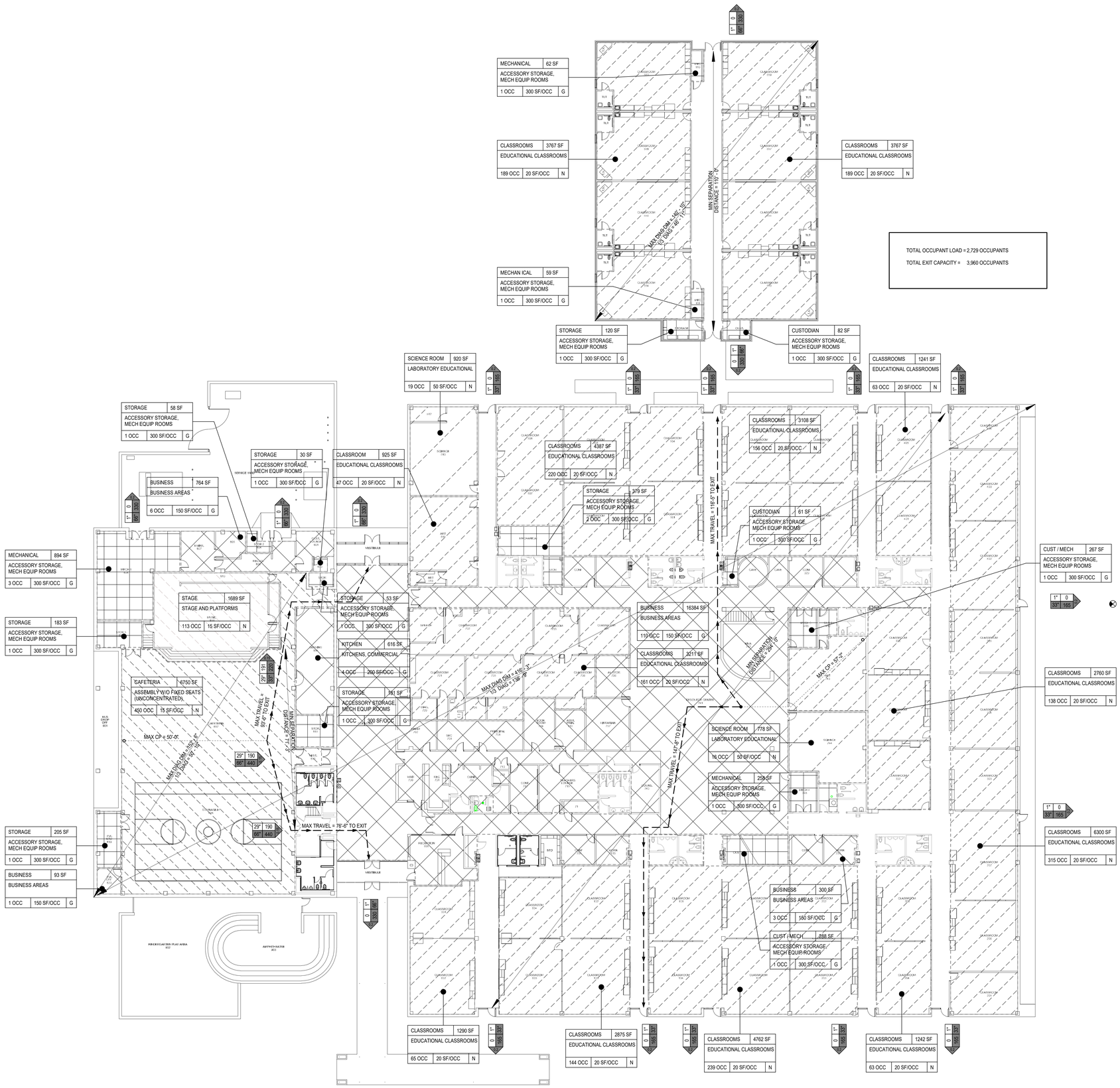

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TRUE

6A CP1.1

CODE PLAN

SCALE: 1/16" = 1'-0"

Area/Occupant Load Schedule (Code Analysis)

Name	Function of Space	Area	Occupancy Load Factor	OLF
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	120 SF	300	1
CUSTODIAN	ACCESSORY STORAGE, MECH EQUIP ROOMS	82 SF	300	1
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	62 SF	300	1
MECHAN ICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	59 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	379 SF	300	2
CUSTODIAN	ACCESSORY STORAGE, MECH EQUIP ROOMS	61 SF	300	1
CUST / MECH	ACCESSORY STORAGE, MECH EQUIP ROOMS	267 SF	300	1
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	258 SF	300	1
CUST / MECH	ACCESSORY STORAGE, MECH EQUIP ROOMS	288 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	30 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	58 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	53 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	183 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	205 SF	300	1
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	894 SF	300	3
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	181 SF	300	1
CAFETERIA	ASSEMBLY W/O FIXED SEATS (UNCONCENTRATED)	6750 SF	15	450
BUSINESS	BUSINESS AREAS	16384 SF	150	110
BUSINESS	BUSINESS AREAS	Not Placed	150	
BUSINESS	BUSINESS AREAS	300 SF	150	2
BUSINESS	BUSINESS AREAS	Not Placed	150	
BUSINESS	BUSINESS AREAS	Not Placed	150	
BUSINESS	BUSINESS AREAS	93 SF	150	1
BUSINESS	BUSINESS AREAS	764 SF	150	6
Area	EDUCATIONAL CLASSROOMS	Not Placed	20	
CLASSROOMS	EDUCATIONAL CLASSROOMS	3767 SF	20	189
CLASSROOMS	EDUCATIONAL CLASSROOMS	3767 SF	20	189
CLASSROOM	EDUCATIONAL CLASSROOMS	925 SF	20	47
CLASSROOMS	EDUCATIONAL CLASSROOMS	4387 SF	20	220
CLASSROOMS	EDUCATIONAL CLASSROOMS	3108 SF	20	156
CLASSROOMS	EDUCATIONAL CLASSROOMS	1290 SF	20	65
CLASSROOMS	EDUCATIONAL CLASSROOMS	2875 SF	20	144
CLASSROOMS	EDUCATIONAL CLASSROOMS	4762 SF	20	239
CLASSROOMS	EDUCATIONAL CLASSROOMS	1242 SF	20	63
CLASSROOMS	EDUCATIONAL CLASSROOMS	6300 SF	20	315
CLASSROOMS	EDUCATIONAL CLASSROOMS	2760 SF	20	138
CLASSROOMS	EDUCATIONAL CLASSROOMS	1241 SF	20	63
CLASSROOMS	EDUCATIONAL CLASSROOMS	3211 SF	20	161
KITCHEN	KITCHENS, COMMERCIAL	616 SF	200	4
SCIENCE ROOM	LABORATORY EDUCATIONAL	920 SF	50	19
SCIENCE ROOM	LABORATORY EDUCATIONAL	778 SF	50	16
STAGE	STAGE AND PLATFORMS	1689 SF	15	113
				2729

2,066 BASED ON TEA

LEGEND - CODE FLOOR PLANS

Area name | XXXX SF
Space Function
XXX OCC | XXX SF/OCC | G

ROOM NUMBER
/ XXXX SF / [XXX] — AREA (SF), OCCUPANT LOAD

ROOM NAME
NAME / XXXX SF / [XXX] — AREA (SF), OCCUPANT LOAD

EXIT TAG
- CUMULATIVE OCCUPANT LOAD
- EGRESS CAPACITY

REQUIRED OCCUPANT LOAD
REQUIRED WIDTH FOR OCCUPANT LOAD (INCHES)
0 | 1" / 0 | 0" — CAPACITY OF EGRESS COMPONENT (WIDTH IN INCHES), CAPACITY OF EGRESS COMPONENT (OCCUPANTS)
EGRESS CAPACITY FACTOR (INCHES/OCCUPANT)
- WHEN CAPACITY FACTOR TRIANGLE IS FILLED - THIS IS TOTAL OCCUPANT LOAD AT THIS EXIT FROM THIS STORY

DOOR TAG
PD / XX MIN
- PANIC DEVICE
- DOOR FIRE RATING

EXIT SIGN

MAX TRAVEL = Length — EXIT ACCESS TRAVEL DISTANCE
MAX CP = Length — COMMON PATH OF EGRESS TRAVEL DISTANCE
MAX DIAG DIM = X'-X" / 1/3 DIAG = X'-X" — MAX OVERALL DIAGONAL DIM OF AREA SERVED
MIN SEPARATION DISTANCE = X'-X" — MIN EXIT SEPARATION

SEPARATION LEGEND

HOURLY RATING
0 = 0 HOUR
5 = 1/2 HOUR
1 = 1 HOUR
2 = 2 HOUR
3 = 3 HOUR
4 = 4 HOUR

FIRE AND SMOKE SEPARATION TYPES
C = CORRIDOR (CYAN)
EW = EXTERIOR WALL (PURPLE)
FW = FIRE WALL (BLUE)
FB = FIRE BARRIER (RED)
FP = FIRE PARTITION (MAGENTA)
SP = SMOKE PARTITION (GREEN)
SB = SMOKE BARRIER (GREEN)
VS = VERTICAL SHAFT (ORANGE)
VX = VERTICAL EXIT ENCLOSURE (ORANGE)
XP = EXIT PASSAGEWAY (YELLOW)

DLR GROUP
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05/06/2025

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HEFLIN E.S. - RESTROOM RENOVATIONS
ALIEF INDEPENDENT SCHOOL DISTRICT
3303 SYNOTT ROAD
HOUSTON, TX 77082

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2012 TAS Standards for Accessible Design

for Public Accomodations and Commercial Facilities: Title III

CHAPTER 3: BUILDING BLOCKS

301 General

301.1 Scope. The provisions of Chapter 3 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

302 Floor or Ground Surfaces

302.1 General. Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302.

EXCEPTIONS:
1. Within animal containment areas, floor and ground surfaces shall not be required to be stable, firm, and slip resistant.
2. Areas of sport activity shall not be required to comply with 302.

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed edge. Carpet edge trim shall comply with 303.

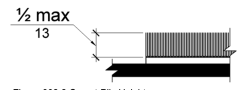

Figure 302.2 Carpet Pile Height

302.3 Openings. Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.

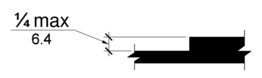

Figure 303.2 Vertical Change in Level

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

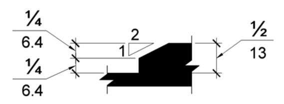

Figure 303.3 Beveled Change in Level

303.4 Ramps. Changes in level greater than 1/2 inch (13 mm) high shall be ramped, and shall comply with 405 or 406.

304 Turning Space

304.1 General. Turning space shall comply with 304.

304.2 Floor or Ground Surfaces. Floor or ground surfaces of a turning space shall comply with 302. Changes in level are not permitted.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

304.3 Size. Turning space shall comply with 304.3.1 or 304.3.2.

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

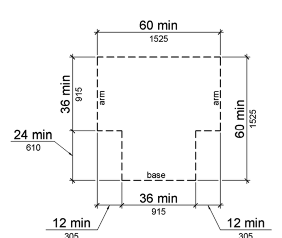

Figure 304.3.2 T-Shaped Turning Space

304.4 Door Swing. Doors shall be permitted to swing into turning spaces.

305 Clear Floor or Ground Space

305.1 General. Clear floor or ground space shall comply with 305.

305.2 Floor or Ground Surfaces. Floor or ground surfaces of a clear floor or ground space shall comply with 302. Changes in level are not permitted.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

305.3 Size. The clear floor or ground space shall be 30 inches (760 mm) minimum by 48 inches (1220 mm) minimum.

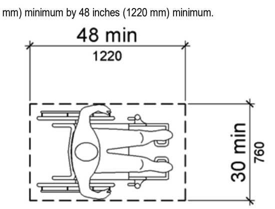

Figure 305.3 Clear Floor or Ground Space

305.4 Knee and Toe Clearance. Unless otherwise specified, clear floor or ground space shall be permitted to include knee and toe clearance complying with 306.

305.5 Position. Unless otherwise specified, clear floor or ground space shall be positioned for either forward or parallel approach to an element.

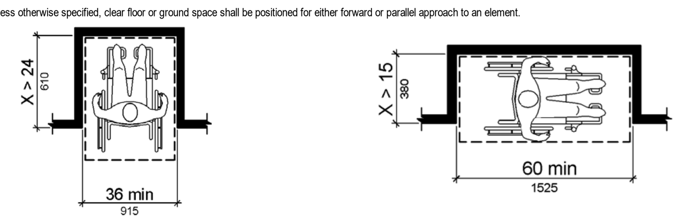

Figure 305.5 Position of Clear Floor or Ground Space

305.6 Approach. One full unobstructed side of the clear floor or ground space shall adjoin an accessible route or adjoin another clear floor or ground space.

305.7 Maneuvering Clearance. Where a clear floor or ground space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearance shall be provided in accordance with 305.7.1 and 305.7.2.

305.7.1 Forward Approach. Alcoves shall be 36 inches (915 mm)wide minimum where the depth exceeds 24 inches (610 mm).

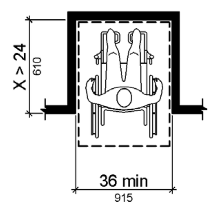

Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

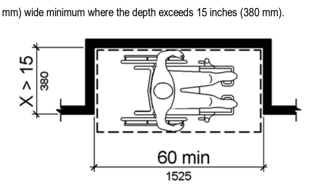

Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

306 Knee and Toe Clearance

306.1 General. Where space beneath an element is included as part of clear floor or ground space or turning space, the space shall comply with 306. Additional space shall not be prohibited beneath an element but shall not be considered as part of the clear floor or ground space or turning space.

306.2 Toe Clearance.

306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

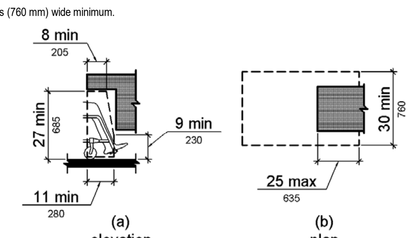

Figure 306.2 Toe Clearance

306.3 Knee Clearance.

306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.

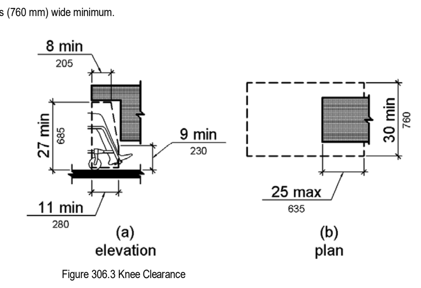

Figure 306.3 Knee Clearance

307 Protruding Objects

307.1 General. Protruding objects shall comply with 307.

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

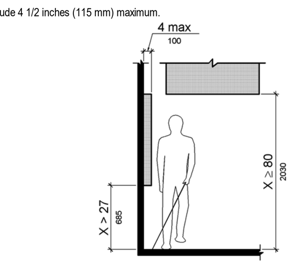

Figure 307.2 Limits of Protruding Objects

307.3 Post-Mounted Objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum above the finish floor or ground.

EXCEPTION: The sloping portions of handrails serving stairs and ramps shall not be required to comply with 307.3.

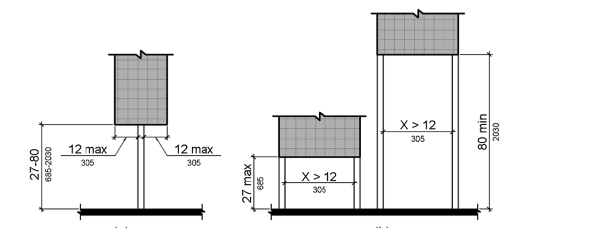

Figure 307.3 Post-Mounted Protruding Objects

307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

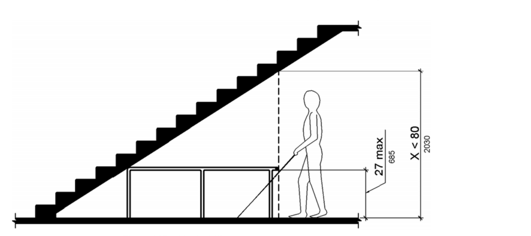

Figure 307.4 Vertical Clearance

307.5 Required Clear Width. Protruding objects shall not reduce the clear width required for accessible routes.

308 Reach Ranges

308.1 General. Reach ranges shall comply with 308.

Children's Reach Ranges			
Forward or Side Reach	Ages 3 and 4	Ages 5 through 8	Ages 9 through 12
High (maximum)	36 in (915 mm)	40 in (1015 mm)	44 in (1120 mm)
Low (minimum)	20 in (510 mm)	18 in (455 mm)	16 in (405 mm)

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

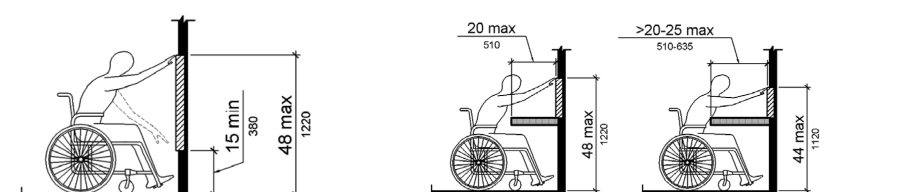

Figure 308.2.1 Unobstructed Forward Reach

Figure 308.2.2 Obstructed High Forward Reach

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

EXCEPTIONS:
1. An obstruction shall be permitted between the clear floor or ground space and the element where the depth of the obstruction is 10 inches (255 mm) maximum.
2. Operable parts of fuel dispensers shall be permitted to be 54 inches (1370 mm) maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs.

308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

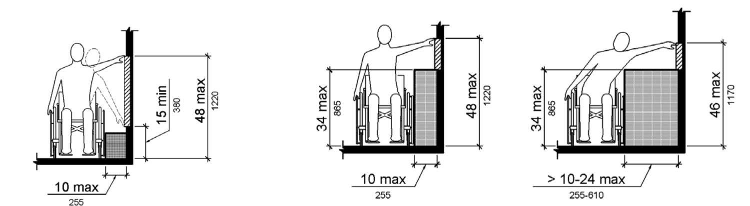

Figure 308.3.1 Unobstructed Side Reach

Figure 308.3.2 Obstructed High Side Reach

CHAPTER 4: ACCESSIBLE ROUTES

401 General

401.1 Scope. The provisions of Chapter 4 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

402 Accessible Routes

402.1 General. Accessible routes shall comply with 402.

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

403 Walking Surfaces

403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

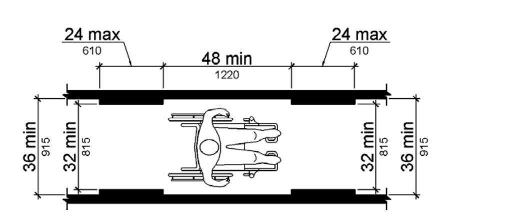

Figure 403.5.1 Clear Width of an Accessible Route

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

EXCEPTION: Where the clear width at the turn is 60 inches (1525 mm) minimum compliance with 403.5.2 shall not be required.

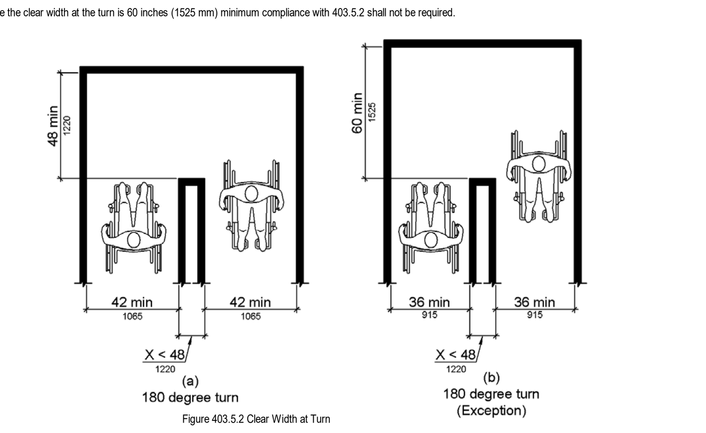

Figure 403.5.2 Clear Width at Turn

403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum. Passing spaces shall be either: a space 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum; or, an intersection of two walking surfaces providing a T-shaped space complying with 304.3.2 where the base and arms of the T-shaped space extend 48 inches (1220 mm) minimum beyond the intersection.

403.6 Handrails. Where handrails are provided along walking surfaces with running slopes not steeper than 1:20 they shall comply with 505.

404 Doors, Doorways, and Gates

404.1 General. Doors, doorways, and gates that are part of an accessible route shall comply with 404.

EXCEPTION: Doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with 404.2.7, 404.2.8, 404.2.9, 404.3.2 and 404.3.4 through 404.3.7.

404.2 Manual Doors, Doorways, and Manual Gates. Manual doors and doorways and manual gates intended for user passage shall comply with 404.2.

404.2.1 Revolving Doors, Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

404.2.2 Double-Leaf Doors and Gates. At least one of the active leaves of doorways with two leaves shall comply with 404.2.3 and 404.2.4.

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

EXCEPTIONS:
1. In alterations, a projection of 5/8 inch (16 mm) maximum into the required clear width shall be permitted for the latch side stop.
2. Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

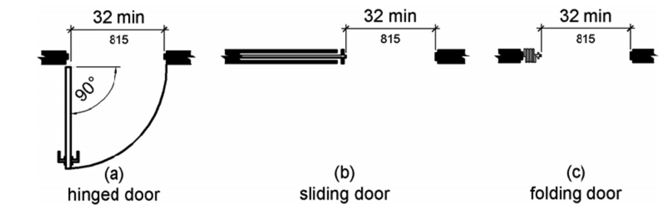

Figure 404.2.3 Clear Width of Doorways

404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

EXCEPTION: Entry doors to hospital patient rooms shall not be required to provide the clearance beyond the latch side of the door.

404.2.4.1 Swinging Doors and Gates. Swinging doors and gates shall have maneuvering clearances complying with Table 404.2.4.1.

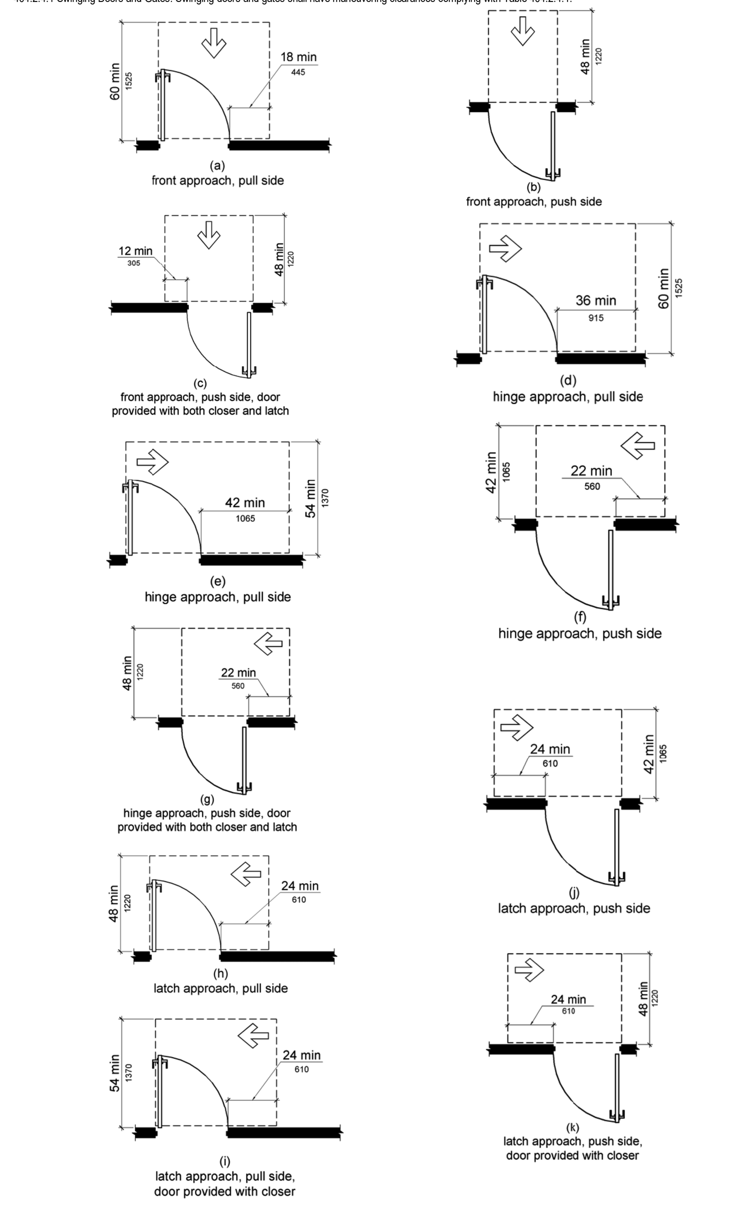

Figure 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates

404.2.4.2 Doorways without Doors or Gates, Sliding Doors, and Folding Doors. Doorways less than 36 inches (915 mm) wide without doors or gates, sliding doors, or folding doors shall have maneuvering clearances complying with Table 404.2.4.2.

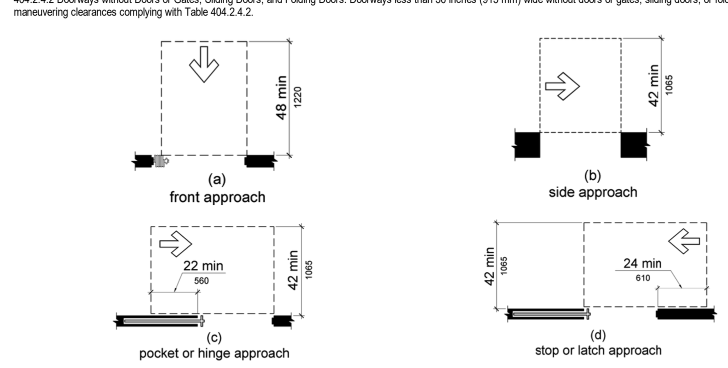

Figure 404.2.4.2 Maneuvering Clearances at Doorways Without Doors, Sliding Doors, Gates, and Folding Doors

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

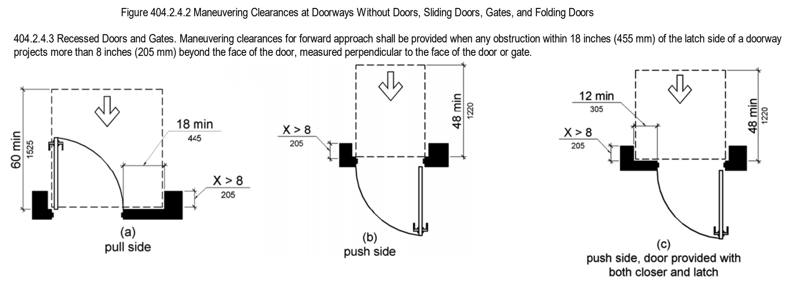

Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

404.2.4.4 Floor or Ground Surface. Floor or ground surface within required maneuvering clearances shall comply with 302. Changes in level are not permitted.

EXCEPTIONS:
1. Slopes not steeper than 1:48 shall be permitted.
2. Changes in level at thresholds complying with 404.2.5 shall be permitted.

404.2.5 Thresholds. Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303.

EXCEPTION: Existing or altered thresholds 3/4 inch (19 mm) high maximum that have a beveled edge on each side with a slope not steeper than 1:2 shall not be required to comply with 404.2.5.

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

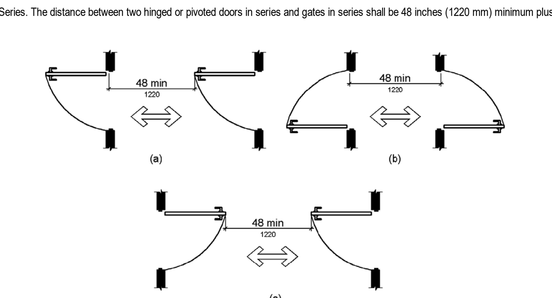

Figure 404.2.6 Doors in Series and Gates in Series

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

405 Ramps

405.1 General. Ramps on accessible routes shall comply with 405.

EXCEPTION: In assembly areas, aisle ramps adjacent to seating and not serving elements required to be on an accessible route shall not be required to comply with 405.

405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.

EXCEPTION: In existing sites, buildings, and facilities, ramps shall be permitted to have running slopes steeper than 1:12 complying with Table 405.2 where such slopes are necessary due to space limitations.

Table 405.2 Maximum Ramp Slope and Rise for Existing Sites, Buildings, and Facilities	
Slope (A slope steeper than 1:8 is prohibited)	Maximum Rise
Steeper than 1:10 but not steeper than 1:8	3 inches (75 mm)
Steeper than 1:12 but not steeper than 1:10	6 inches (150 mm)

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

405.4 Floor or Ground Surfaces. Floor or ground surfaces of ramp runs shall comply with 302. Changes in level other than the running slope and cross slope are not permitted on ramp runs.

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.

EXCEPTION: Within employee work areas, the required clear width of ramps that are a part of common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum.

405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run. Landings shall comply with 405.7.

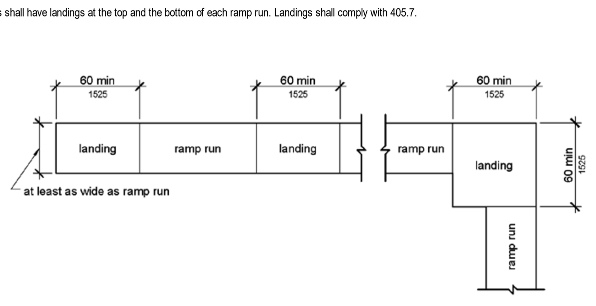

Figure 405.7 Ramp Landings

405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 505.

405.9.2 Curb or Barrier. A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground surface.

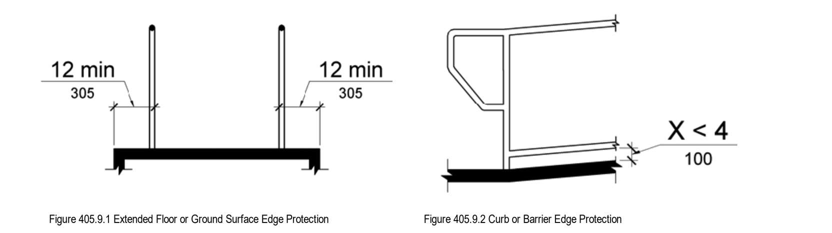

Figure 405.9.1 Extended Floor or Ground Surface Edge Protection

Figure 405.9.2 Curb or Barrier Edge Protection

405.10 Wet Conditions. Landings subject to wet conditions shall be designed to prevent the accumulation of water.

406 Curb Ramps

406.1 General. Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.

406.2 Counter Slope. Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

406.3 Sides of Curb Ramps. Where provided, curb ramp flares shall not be steeper than 1:10.

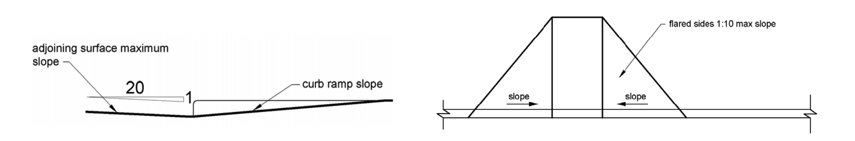

Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps

Figure 406.3 Sides of Curb Ramps

406.4 Landings. Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36 inches (915 mm) minimum. The landing clear width shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing.

EXCEPTION: In alterations, where there is no landing at the top of curb ramps, curb ramp flares shall be provided and shall not be steeper than 1:12.

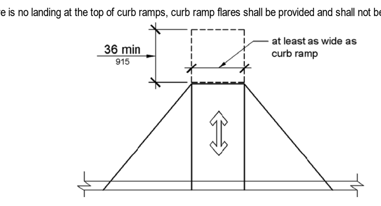

Figure 406.4 Landings at the Top of Curb Ramps

406.5 Location. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.

406.6 Diagonal Curb Ramps. Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have a clear space 48 inches (1220 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1220 mm) minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches (610 mm) long minimum located on each side of the curb ramp and within the marked crossing.

407.2 Elevator Landing Requirements. Elevator landings shall comply with 407.2.

407.2.1 Call Controls. Where elevator call buttons or keypads are provided, they shall comply with 407.2.1 and 309.4. Call buttons shall be raised or flush.

EXCEPTION: Existing elevators shall be permitted to have recessed call buttons.

407.2.1.1 Height. Call buttons and keypads shall be located within one of the reach ranges specified in 308, measured to the centerline of the highest operable part.

EXCEPTION: Existing call buttons and existing keypads shall be permitted to be located at 54 inches (1370 mm) maximum above the finish floor, measured to the centerline of the highest operable part.

407.2.1.2 Size. Call buttons shall be 3/4 inch (19 mm) minimum in the smallest dimension.

EXCEPTION: Existing elevator call buttons shall not be required to comply with 407.2.1.2.

407.2.1.3 Clear Floor or Ground Space. A clear floor or ground space complying with 305 shall be provided at call controls.

407.2.2 Hall Signals. Hall signals, including in-car signals, shall comply with 407.2.2.

407.2.2.1 Visible and Audible Signals. A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel. Where in-car signals are provided, they shall be visible from the floor area adjacent to the hall call buttons.

EXCEPTIONS:
1. Visible and audible signals shall not be required at each destination-oriented elevator where a visible and audible signal complying with 407.2.2 is provided indicating the elevator car designation information.
2. In existing elevators, a signal indicating the direction of car travel shall not be required.

407.2.2.2 Visible Signals. Visible signal fixtures shall be centered at 72 inches (1830 mm) minimum above the finish floor or ground. The visible signal elements shall be 2 1/2 inches (64 mm) minimum measured along the vertical centerline of the element. Signals shall be visible from the floor area adjacent to the hall call button.

EXCEPTIONS:
1. Destination-oriented elevators shall be permitted to have signals visible from the floor area adjacent to the hoistway entrance.
2. Existing elevators shall not be required to comply with 407.2.2.2.

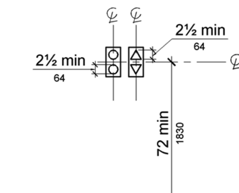

Figure 407.2.2.2 Visible Hall Signals

407.2.3 Hoistway Signs. Signs at elevator hoistways shall comply with 407.2.3.

407.2.3.1 Floor Designation. Floor designations complying with 703.2 and 703.4.1 shall be provided on both jambs of elevator hoistway entrances. Floor designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high minimum. A tactile star shall be provided on both jambs at the main entry level.

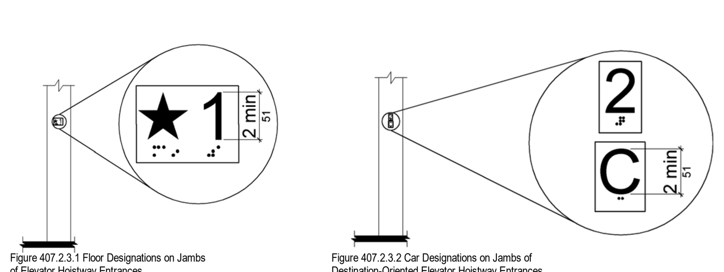

Figure 407.2.3.1 Floor Designations on Jambs of Elevator Hoistway Entrances

Figure 407.2.3.2 Car Designations on Jambs of Destination-Oriented Elevator Hoistway Entrances

CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

604 Water Closets and Toilet Compartments

604.1 General. Water closets and toilet compartments shall comply with 604.2 through 604.8.

EXCEPTION: Water closets and toilet compartments for children's use shall be permitted to comply with 604.9.

604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

604.3 Clearance. Clearances around water closets and in toilet compartments shall comply with 604.3.

604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.

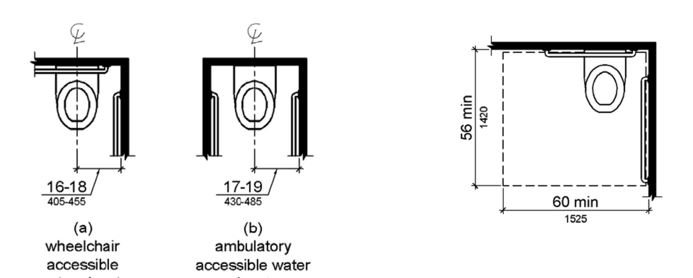

Figure 604.2 Water Closet Location

Figure 604.3.1 Size of Clearance at Water Closets

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

EXCEPTIONS:
1. A water closet in a toilet room for a single occupant accessed only through a private office and not for common use or public use shall not be required to comply with 604.4.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

EXCEPTIONS:
1. Grab bars shall not be required to be installed in a toilet room for a single occupant accessed only through a private office and not for common use or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall.

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

EXCEPTIONS:
1. The rear grab bar shall be permitted to be 24 inches (610 mm) long minimum, centered on the water closet, where wall space does not permit a length of 36 inches (915 mm) minimum due to the location of a recessed fixture adjacent to the water closet.
2. Where an administrative authority requires flush controls for flush valves to be located in a position that conflicts with the location of the rear grab bar, then the rear grab bar shall be permitted to be split or shifted to the open side of the toilet area.

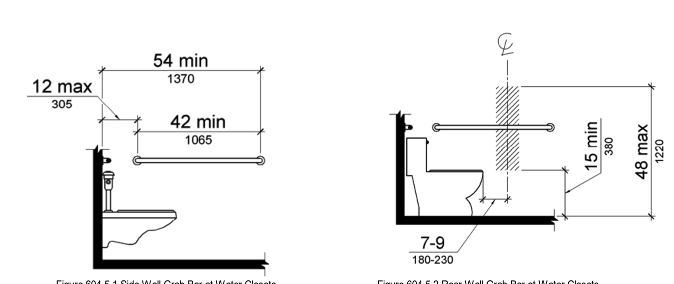

Figure 604.5.1 Side Wall Grab Bar at Water Closets

Figure 604.5.2 Rear Wall Grab Bar at Water Closets

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with 604.8.1.

604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

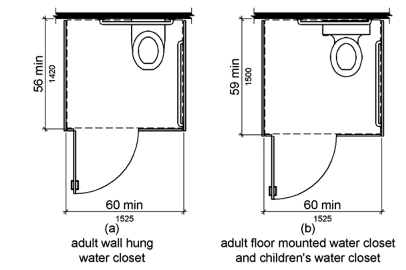

Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

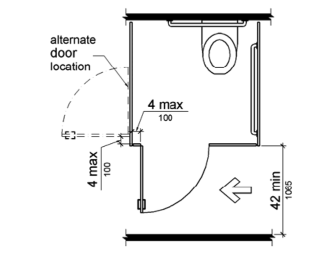

Figure 604.8.1.2 Wheelchair Accessible Toilet Compartment Doors

604.8.1.4 Toe Clearance. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.

EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm) deep.

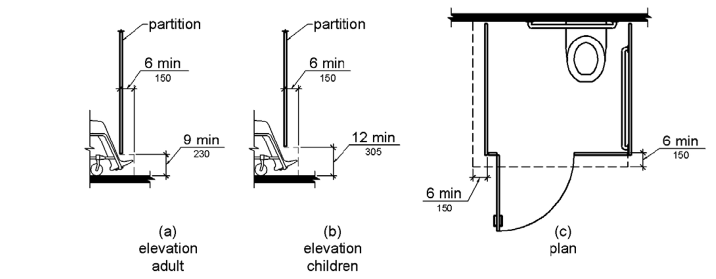

Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply with 604.8.2.

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum.

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.2.3 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

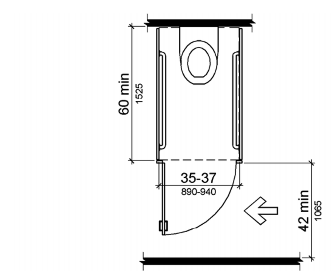

Figure 604.8.2 Ambulatory Accessible Toilet Compartment

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604.9 Water Closets and Toilet Compartments for Children's Use. Water closets and toilet compartments for children's use shall comply with 604.9.

605 Urinals

605.1 General. Urinals shall comply with 605.

605.2 Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

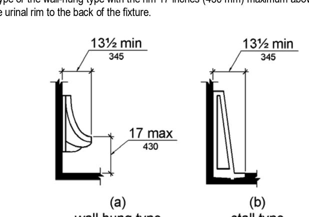

Figure 605.2 Height and Depth of Urinals

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

EXCEPTION: Braille provided on elevator car controls shall be separated 3/16 inch (4.8 mm) minimum and shall be located either directly below or adjacent to the corresponding raised characters or symbols.

703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

EXCEPTION: Tactile characters for elevator car controls shall not be required to comply with 703.4.1.

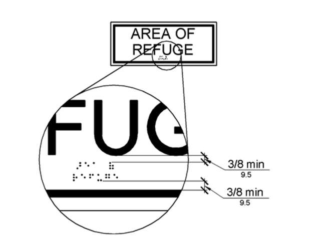

Figure 703.3.2 Position of Braille

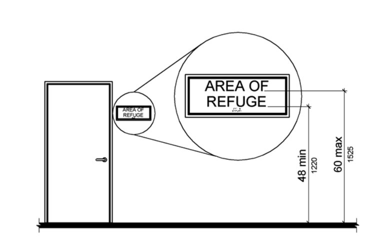

Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

EXCEPTION: Signs with tactile characters shall be permitted on the push side of doors with closers and without hold-open devices.

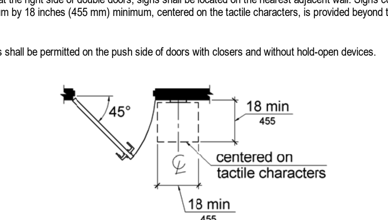

Figure 703.4.2 Location of Tactile Signs at Doors

CHAPTER 8: SPECIAL ROOMS, SPACES AND ELEMENTS

804 Kitchens and Kitchenettes

804.1 General. Kitchens and kitchenettes shall comply with 804.

804.2 Clearance. Where a pass through kitchen is provided, clearances shall comply with 804.2.1. Where a U-shaped kitchen is provided, clearances shall comply with 804.2.2.

EXCEPTION: Spaces that do not provide a cooktop or conventional range shall not be required to comply with 804.2.

Advisory 804.2 Clearance. Clearances are measured from the furthest projecting face of all opposing base cabinets, counter tops, appliances, or walls, excluding hardware.

804.2.1 Pass Through Kitchen. In pass through kitchens where counters, appliances or cabinets are on two opposing sides, or where counters, appliances or cabinets are opposite a parallel wall, clearance between all opposing base cabinets, counter tops, appliances, or walls within kitchen work areas shall be 40 inches (1015 mm) minimum. Pass through kitchens shall have two entries.

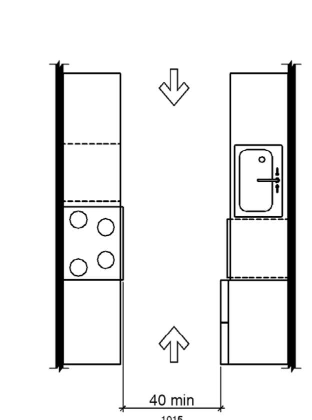

Figure 804.2.1 Pass Through Kitchens

804.2.2 U-Shaped. In U-shaped kitchens enclosed on three contiguous sides, clearance between all opposing base cabinets, counter tops, appliances, or walls within kitchen work areas shall be 60 inches (1525 mm) minimum.

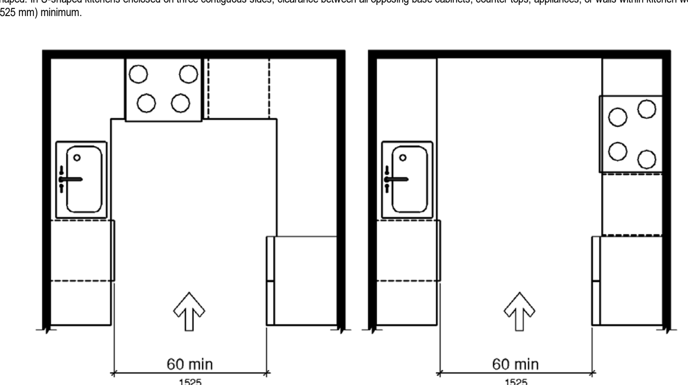

Figure 804.2.2 U-Shaped Kitchens

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ALIEF INDEPENDENT SCHOOL DISTRICT

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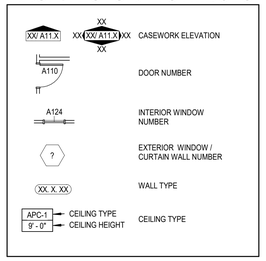
ARCHITECTURAL ABBREVIATIONS

		GD	GARBAGE DISPOSAL	SC	SHOWER CURTAIN
		GEN	GENERAL	SCD	SEAT COVER DISPENSER
A/E	ARCHITECT/ENGINEER	GFA	GROSS FLOOR AREA	SCH	SHOWER CURTAIN HOOK
AB	AIR BARRIER	GL	GLUE LAMINATED	SCR	SHOWER CURTAIN ROD
ABS	ASBESTOS	GL	GLASS	SCT	STRUCTURAL CLAY TILE
ACC	ADA ACCESSIBLE	GMP	GUARANTEED MAXIMUM PRICE	SD	SOAP DISPENSER
ACR	ACRYLIC	GR	GUARD RAIL	SECY	SECRETARY
ACT	ACOUSTIC CEILING TILE	GR	GRADE	SF	SQUARE FEET
AD	ACCESS DOOR	GRS	GALVANIZED RIGID STEEL	SG	SPANDREL GLASS
ADJ	ADJUSTABLE	GWB	GYPSUM WALL BOARD	SG	SPECIALTY GLASS
ADJT	ADJACENT	GYP	GYPSUM	SGL	SINGLE
ADMIN	ADMINISTRATION			SGV	SINGLE GAS VALVE
AEC	AUTOMATED EXTERNAL DEFIBRILLATORS	HC	HOLLOW CORE	SH	SHOWER
AL	ALUMINUM	HD	HAND DRYER	SHM	SECURITY HOLLOW METAL
ALUM	ALUMINUM	HDF	HIGH DENSITY FIBERBOARD	SLNT	SEALANT
AP	ACCESS PANEL	HDR	HEADER	SM	SHEET METAL
APC	ACOUSTIC PANEL CEILING	HDWD	HARDWOOD	SND	SANITARY NAPKIN DISPOSAL
ASPH	ASPHALT	HDWR	HARDWARE	SNV	SANITARY NAPKIN VENDOR
AUTO	AUTOMATIC	HM	HOLLOW METAL	SO	SENSOR OPERATED
AVG	AVERAGE	HR	HOUR	SPL	SOUND PRESSURE LEVEL
AWP	ACOUSTIC WALL PANEL	HR	HANDRAIL	SQ	SQUARE
		HS	HARDWARE SET	SR	SURFACE MOUNTED ELECTRICAL RACEWAY
B.O.	BOTTOM OF	HSS	HOLLOW STRUCTURAL SHAPE	SS	SOLID SURFACE
BCS	BABY CHANGING STATION	HVAC	HEATING VENTILATING AND AIR CONDITIONING	SSA	STORM SHELTER AREA
BD	BOARD			SSM	SOLID SURFACE
BLK	BLOCK	IAW	IN ACCORDANCE WITH	SSS	STAINLESS STEEL SHELF
BLKG	BLOCKING	ID	INSIDE DIAMETER	SST	STAINLESS STEEL
BLKHD	BULKHEAD	IF	INSIDE FACE	ST	STONE
BM(S)	BEAM(S)	IIP	INSULATED INFILL PANEL GLASS	ST	STAIR
BOT	BOTTOM	IJ	ISOLATION JOINT	STAG'D	STAGGERED
BRDG	BRIDGING	IJS	IN JOIST SPACE	STC	SOUND TRANSMISSION CLASS
BRG	BEARING	INC	INCLUDE(ING)	STGR	STRINGER
BRKT	BRACKET	INSUL	INSULATION	SUBFL	SUBFLOOR
BT	BATHTUB			SUL	SULPHUR
BTWN	BETWEEN	JAN	JANITOR	SURF	SURFACE
		JBE	JOIST BEARING ELEVATION	SUSP	SUSPENDED
CAB	CABINET	JBX	JUNCTION BOX	SVF	SHEET VINYL FLOORING
CBD	CHALKBOARD	JCT	JUNCTION	SVF	SERVICE FIXTURE
CER	CERAMIC	JFB	JOINT FILLER BOARD	SVG	SERVICE FIXTURE GROUP
CF	CUBIC FEET	JST	JOIST		
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	JT	JOINT	T	TREAD
CFMF	COLD-FORMED METAL FRAMING			T&G	TONGUE AND GROOVE
CG	CLEAR FLOAT GLASS	KCJ	KEYED CONSTRUCTION JOINT	T.O.	TOP OF
CGD	CORNER GUARD	KD	KNOCKDOWN	TAN	TANGENT
CI	CAST IRON	KH	KITCHEN HOOD	TB	TOWEL BAR
CIG	CLEAR INSULATING GLASS	KIT	KITCHEN	TBD	TACK BOARD
CIP	CAST IN PLACE			TCP	TOILET COMPARTMENT PARTITION
CJ	CONTROL JOINT	L	ANGLE	TERR	TERRAZZO
CJA	CONTROL JOINT ABOVE	LAB	LABORATORY	TFG	TINTED FLOAT GLASS
CLO	CLOSET	LAM	LAMINATED	TG	TEMPERED GLASS
CLR	CLEAR	LAV	LAVATORY	TH	THRESHOLD
CMU	CONCRETE MASONRY UNIT	LBR	LUMBER	THK	THICK(NESS)
COL	COLUMN	LDG	LOADING	TI	TENANT IMPROVEMENT
COM	COMMON	LF	LINEAR FOOT	TIG	TINTED INSULATING GLASS
COMB	COMBINATION	LG	LENGTH (LONG)	TMR	TILT MIRROR UNIT
COMM	COMMUNICATIONS	LG	LAMINATED GLASS	TOIL	TOILET
COMPR	COMPRESSIBLE	LIN	LINEAR	TOP	TOP OF PAVING
CONF	CONFERENCE	LINO	LINOLEUM	TRANS	TRANSVERSE
CONFIG	CONFIGURATION	LKR	LOCKER	TT	TERRAZZO TILE
CORR	CORRIDOR	LOC	LOCATION	TTD	TOILET TISSUE DISPENSER
CP	COVER PLATE	LONG	LONGITUDINAL	TTG	TINTED TEMPERED FLOAT GLASS
CPT	CARPET	LSC	LIFE SAFETY CODE	TTIG	TINTED TEMPERED INSULATING GLASS
CR	CHAIR RAIL	LTG	LIGHTING	TW	TACK WALL
CS	COUNTERSINK	LV	LOUVER		
CSTJ	CONSTRUCTION JOINT	LVT	LUXURY VINYL TILE	UL	UNDERWRITERS LABORATORIES
CSWK	CASEWORK			UR	URINAL
CT	CERAMIC TILE	MAG	MAGNETIC	US	UTILITY SHELF
CTG	CLEAR TEMPERED FLOAT GLASS	MAINT	MAINTENANCE	UTIL	UTILITY
CTIG	CLEAR TEMPERED INSULATING GLASS	MAN	MANUAL		
CU	COPPER	MAS	MASONRY	VB	VAPOR BARRIER
CU	COMBINATION UNIT	MATL	MATERIAL	VB	VINYL BASE
CV	CONDOM VENDOR	MB	MOP BASIN	VCB	VENTED COVE BASE
CY	CUBIC YARD	MBD	MARKER BOARD	VF	VINYL FLOOR
CYL	CYLINDER	MBH	MOP/BROOM HOLDER	VOC	VOLITILE ORGANIC COMPOUND
		MC	MEDICINE CABINET	VOL	VOLUME
DB	DECIBEL	MEMB	MEMBRANE	VP	VENEER PLASTER
DBL	DOUBLE	MH	MANHOLE	VT	VINYL TILE
DC	DUST COLLECTOR	MIRS	MIRROR WITH SHELF	VWC	VINYL WALL COVERING
DEPR	DEPRESS(ION)(ED)	MTD	MOUNTED		
DEPT	DEPARTMENT	MTG	MOUNTING	W	WIDE
DET	DETENTION	MUL	MULLION	WB	WALL BASE
DF	DRINKING FOUNTAIN			WC	WATER CLOSET
DG	DOOR GRILLE	NC	NOISE CRITERIA	WC	WALL COVERING
DIAG	DIAGONAL	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	WCL	WATER CLOSET/LAVATORY COMBINATION
DPFG	DAMPROOFING	NOM	NOMINAL	WD	WOOD
DR	DOOR			WDF	WOOD FLOORING
DSN	DOWNSPOUT NOZZLE	O to O	OUT TO OUT	WDW	WINDOW
DW	DISHWASHER	OA	OVERALL	WG	POLISHED WIRE GLASS
DWL(S)	DOWEL(S)	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	WI	WROUGHT IRON
DWR	DRAWER	OFF	OFFICE	WOM	WALK OFF MAT
		OFOI	OWNER FURNISHED OWNER INSTALLED	WR	WASTE RECEPTACLE
EB	EXPANSION BOLT	OH	OPPOSITE HAND	WRB	WEATHER RESISTANT BARRIER
EE	EACH END	OPG(S)	OPENING(S)	WW	WARM WHITE
EEW	EMERGENCY EYE WASH	OSHA	OPERATIONAL SAFETY AND HEALTH ADMINISTRATION	WWF	WELDED WIRE FABRIC
EEWS	EMERGENCY EYE WASH SHOWER	OTB	OPEN TO BELOW		
EFF	EFFICIENCY	OVFL	OVERFLOW	YD	YARD
EJ	EXPANSION JOINT				
ELAS	ELASTOMERIC	P	PAINT		
ELEV	ELEVATOR	PAN B	PANIC BOLT		
EMER	EMERGENCY	PB	PARTICLE BOARD		
ENCL	ENCLOSURE	PC	PRECAST CONCRETE		
ENTR	ENTRANCE	PCD	PAPER CUP DISPENSER		
ERF	EPOXY RESIN FLOORING	PCT	PORCELAIN CERAMIC TILE		
EUI	ENERGY USE INTENSITY	PD	PANIC DEVICE		
EW	EACH WAY	PERF	PERFORATED		
EWC	ELECTRIC WATER COOLER	PERP	PERPENDICULAR		
EXP	EXPANSION	PG	PATTERN GLASS		
EXP	EXPOSED	PIC	PORTABLE INSTRUMENT CONNECTION		
		PIG	PATTERN INSULATING GLASS		
F	FABRIC	PL	PLATE		
F.O.	FACE OF	PL	PROPERTY LINE		
FAB	FABRICATE(D)	PL	PLASTIC LAMINATE		
FB	FACE BRICK	PLAM	PLASTIC LAMINATE		
FD	FLOOR DRAIN	PLBG	PLUMBING		
FDN	FOUNDATION	PR	PAIR		
FE	FIRE EXTINGUISHER	PREFAB	PREFABRICATED		
FEC	FIRE EXTINGUISHER CABINET	PROJ	PROJECT(OR) (ION)		
FF	FINISH FLOOR	PS	PROJECTION SCREEN		
FH	FIRE HYDRANT	PT	POINT		
FHC	FIRE HOSE CABINET	PT	POINT OF TANGENCY		
FIG	FIGURE	PTD	PAPER TOWEL DISPENSER		
FIX	FIXTURE	PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE		
FLASH	FLASHING	PTN	PARTITION		
FLEX	FLEXIBLE	PVC	POLYVINYL CHLORIDE		
FLG	FLOORING	PWL	SOUND POWER LEVEL		
FLM	FULL LENGTH MIRROR				
FLUOR	FLUORESCENT	QGV	QUAD GAS VALVE		
FO	FINISH OPENING	QT	QUARRY TILE		
FOC	FACE OF CONCRETE	QTR RND	QUARTER ROUND		
FOF	FACE OF FINISH				
FOM	FACE OF MASONRY	R	RISER		
FOS	FACE OF STUD	RAD	RADIUS		
FOW	FACE OF WALL	RB	RUBBER BASE		
FP	FIREPROOFING	RC	REMOTE CONTROL		
FPG	FIRE-PROTECTIVE GLASS	RCP	REFLECTED CEILING PLAN		
FR	FIRE RESISTANT	RD	ROOF DRAIN		
FRG	FIRE-RESISTIVE GLASS	REF	REFERENCE		
FRP	FIBERGLASS REINFORCED PANEL	REFL	REFLECTED		
FRT	FIRE RESISTANCE TREATED	REM	REMOVABLE		
FS	FLOOR SINK	RESIL	RESILIENT		
FSS	FOLDING SHOWER SEAT	RF	RESILIENT FLOORING		
FTG	FOOTING	RF	RUBBER FLOOR		
FVC	FIRE VALVE CABINET	RFM	RECESSED FLOOR MAT		
FWC	FABRIC WALL COVERING	RH	ROBE HOOK		
		RI&C	ROUGH IN AND CONNECT		
G	GROUT				
GA	GAUGE	S	SINK		
GAL	GALLON	SAT	SPRAYED ACOUSTIC TREATMENT		
GALV	GALVANIZED	SAW	SOUND ABSORBING WALL UNITS		
GB	GRAB BAR	SB	SPLASH BLOCK		
		SC	SOLID CORE		

ARCHITECTURAL SYMBOLS



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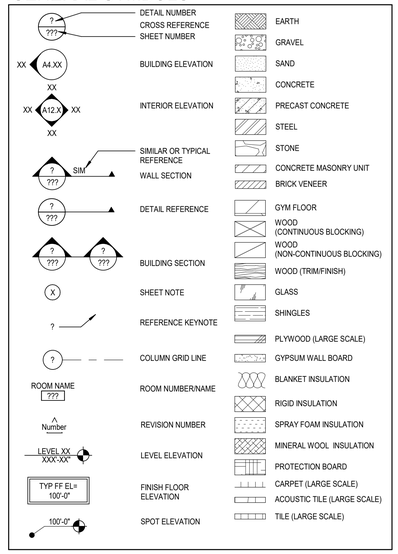

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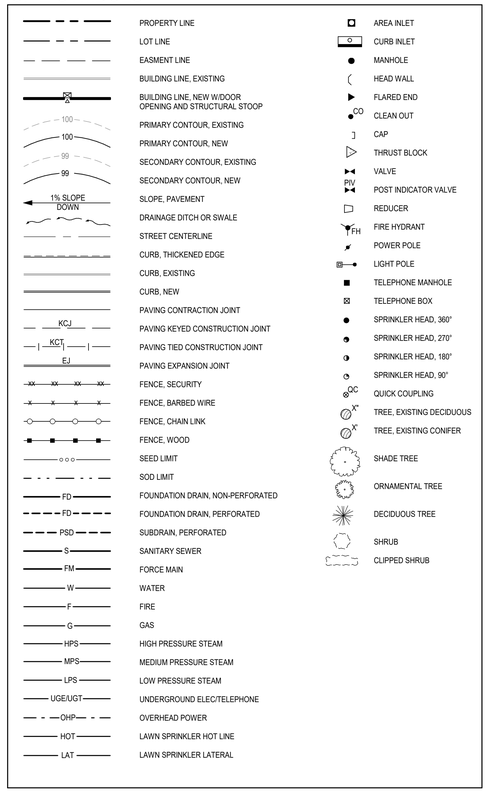

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX.X.XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

GENERAL NOTES

A. GENERAL NOTES APPLY TO ALL SHEETS.
B. DIMENSIONS ARE ACTUAL AND ARE TO FACE OF STUDS, FACE OF CONCRETE WALLS, FACE OF CMU WALLS, FACE OF FRAMES, OR CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE.
C. THE OWNER SHALL FURNISH AND INSTALL THE FOLLOWING ITEMS: 1. SOAP DISPENSERS
D. INCLUDE ALL OWNER-FURNISHED AND INSTALLED ITEMS AND OWNER-FURNISHED AND CONTRACTOR-INSTALLED ITEMS IN THE CONSTRUCTION SCHEDULE, AND SHALL COORDINATE WITH THE OWNER TO ACCOMMODATE THESE ITEMS.
E. COORDINATE ALL MECHANICAL CHASE SIZES WITH THE MECHANICAL CONTRACTOR.
F. ARCHITECTURAL FINISH FLOOR ELEVATION IS EXISTING TO REMAIN, VIF.
G. SEE SHEET XX.X FOR LOCATION OF WALLS OF FIRE-RESISTANCE-RATED CONSTRUCTION. ALL WALLS OF FIRE-RESISTANCE-RATED CONSTRUCTION SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE.
H. ALL PENETRATIONS THROUGH WALLS SHALL BE SEALED WITH PENETRATION FIRE STOPPING MATERIAL AS REQUIRED TO ACHIEVE THE RESPECTIVE FIRE-RESISTANCE RATING AND SMOKE STOPPAGE. SEE SPECIFICATION SECTION 078413.
I. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS THE SIZE AND LOCATION OF EQUIPMENT PADS SHOWN ON PLANS.
J. FIRE-RESISTANCE-RATED ENCLOSURES AROUND ALL STEEL COLUMNS SHALL BE CONTINUOUS FROM FLOOR TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE FOR EACH LEVEL.
K. CONSTRUCTION DOCUMENTS ARE COMPLEMENTARY. SEE DRAWING FOR QUANTITIES AND LOCATION OF WORK. SEE SPECIFICATIONS FOR QUALITIES AND CONDITIONS OF WORK.
L. WORK: ALL ASPECTS OF THE WORK AND ITEMS NOT SPECIFICALLY MENTIONED, BUT NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED AND INDICATED IN THE CONTRACTOR'S BID.
M. SHEET NOTES ONLY APPLY TO PARTICULAR DRAWING OR SERIES OF DRAWINGS.
N. NO ASBESTOS OR PCB CONTAINING MATERIALS SHALL BE USED ON THIS PROJECT.
O. DO NOT SCALE DRAWINGS. DIMENSIONS NOTED PREVAIL. NOTIFY ARCHITECT IN CASE OF DISCREPANCY.
P. HORIZONTAL AND VERTICAL DIMENSIONS ARE MINIMUM DIMENSIONS. CLEARANCES ARE GIVEN TO FINISH SURFACES. GC TO VERIFY ALL CLEARANCES. NOTIFY ARCHITECT IN CASE OF DISCREPANCY.

DLR GROUP
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REGISTERED ARCHITECT
JUSTIN A. FISHER
23632
STATE OF TEXAS
05/06/2025

Heflin Hounds are Predictively Awesome

HEFLIN E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

3303 SYNOTT ROAD
HOUSTON, TX 77082

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
4 02-11-26 ISSUE FOR BID & PERMIT

39-25156-00

GENERAL NOTES, ARCHITECTURAL SYMBOLS & ABBREVIATIONS

A0.1

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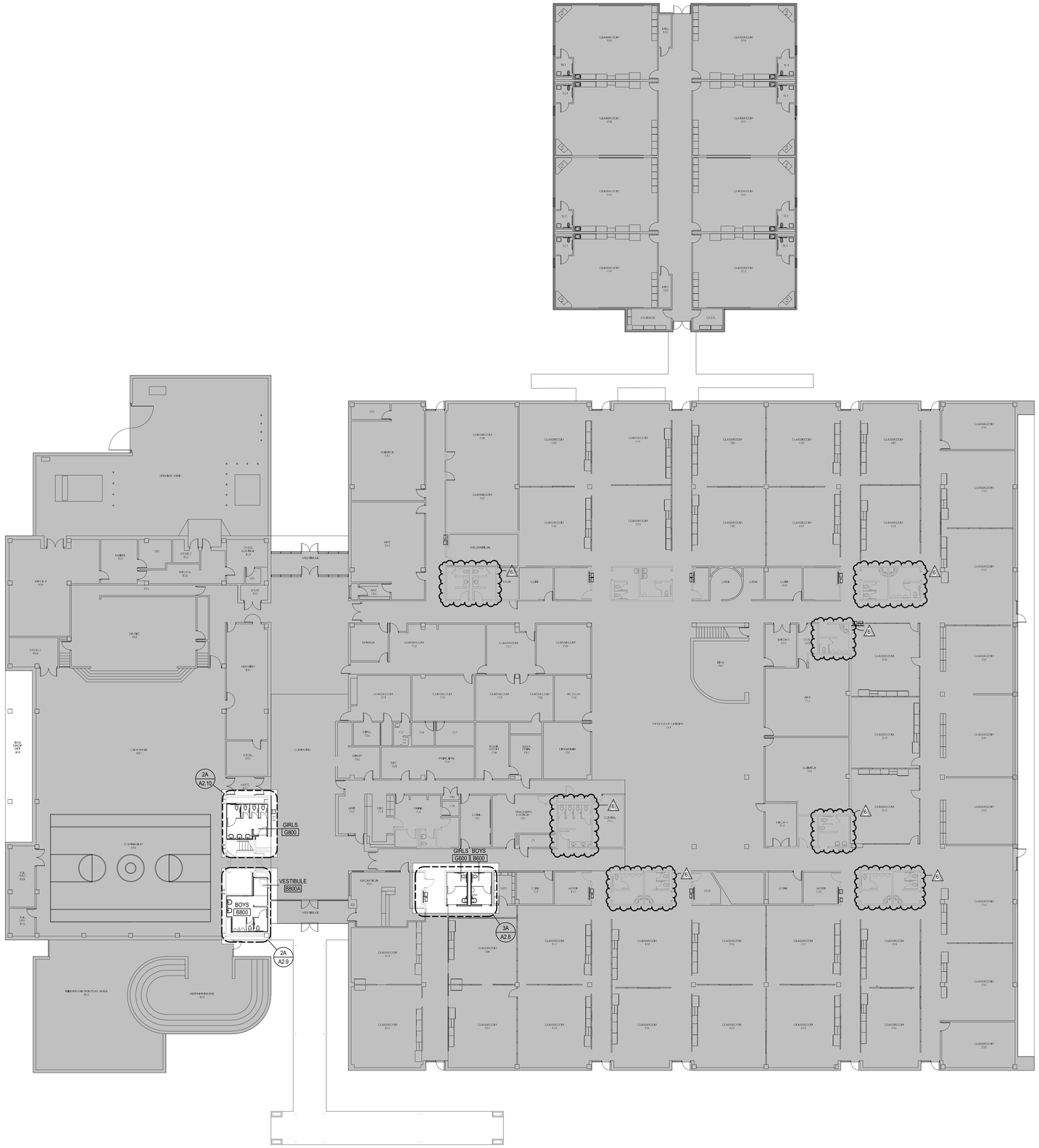

N
TRUE

1 A1.1 OVERALL - FLOOR PLAN

SCALE: 1/16" = 1'-0"

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX.X.XX) THUS: SEE SHEET A6.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS. I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
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9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

SHEET NOTES

1 NEW BOTTLE FILLER DRINKING FOUNTAIN, REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.

2 EXISTING SALVAGED RE-INSTALLED BOTTLE FILLER / DRINKING FOUNTAIN, REFER MEP DRAWINGS.

3 GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.

4 GC TO PROVIDE ADA CANE DETECTION APRON ON HIGH SIDE OF DRINKING FOUNTAIN.

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REGISTERED ARCHITECT JUSTIN A. ALBRIGHT 23632 STATE OF TEXAS
05/06/2025

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HEFLIN E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

3303 SYNOTT ROAD
HOUSTON, TX 77082

ISSUE FOR BID & PERMIT
05.06.2025

REVISIONS
3 ADD 5 10-31-25 CLIENT VE
4 02-11-26 ISSUE FOR BID & PERMIT
6 ADD 7 04-06-26 OWNER VE

39-25156-00

OVERALL - FLOOR PLAN

A1.1

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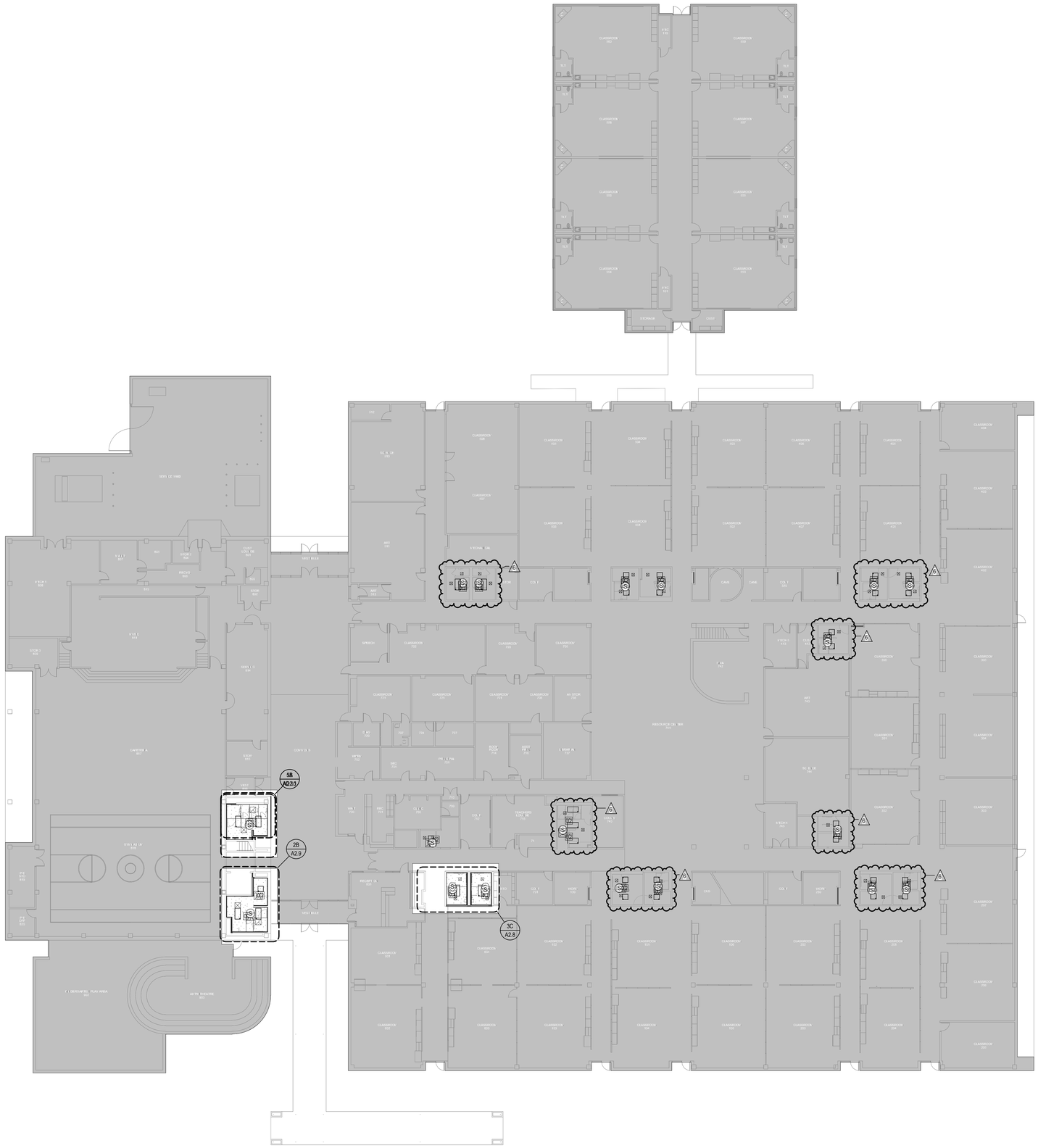

N
TRUE

OVERALL REFLECTED CEILING PLAN, LEVEL 1
SCALE: 1/16" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFERENCE KEYNOTES

SHEET NOTES

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REGISTERED ARCHITECT
JUSTIN A. ARRAM
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STATE OF TEXAS
05/06/2025

Heflin Hounds
Where Everybody Is Awesome

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3 ADD 5 10-31-25 CLIENT VE
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LEVEL 01 - OVERALL - REFLECTED CEILING PLAN

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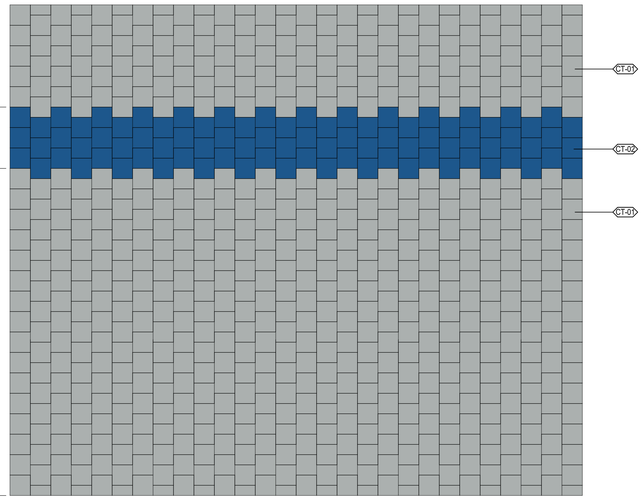
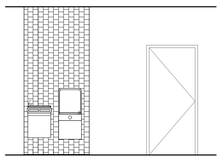


4E / A2.1 TYPICAL WALL TILE PATTERN - RESTROOMS AND DRINKING FOUNTAIN WALLS
SCALE: 1" = 1'-0"



5A / A2.1 DRINKING FOUNTAIN ELEV @ MEN / WOMEN STAFF
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

SHEET NOTES

1 NEW BOTTLE FILLER DRINKING FOUNTAIN. REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.

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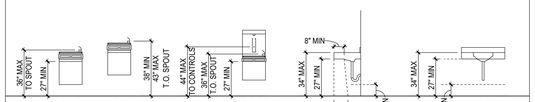
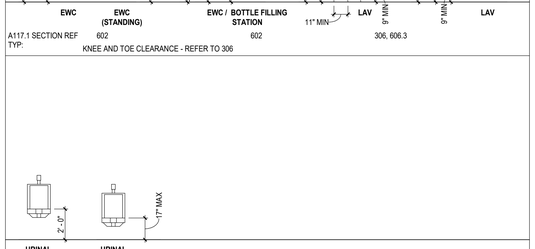
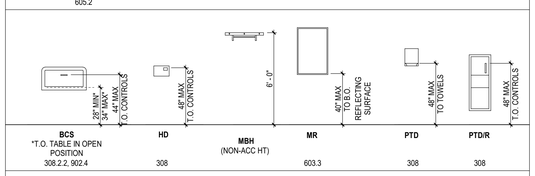
4 GC TO PROVIDE ADA CANE DETECTION APRON ON HIGH SIDE OF DRINKING FOUNTAIN.

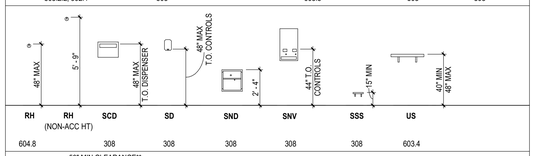
ADULT MOUNTING HEIGHTS - 2017 ICC A117.1

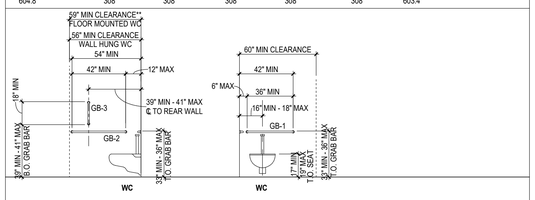
ACCESSIBLE (ACC) UNO

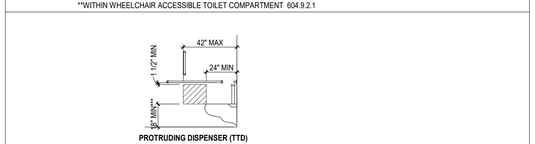












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2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX_X.XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
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7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

ACT, ACOUSTICAL CEILING TILE

XXX — CEILING TYPE
X-XX — CEILING HEIGHT

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E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
I. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
J. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
K. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR, UNO.
L. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

AREA NOT IN CONTRACT (NIC)
NO — PLAN KEYED NOTE
CPT / VCT — FLOOR FINISH TRANSITION
FLOOR MATERIAL DIRECTION
XX-01 — FINISH MATERIAL TAG
XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

DLR GROUP
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REGISTERED ARCHITECT JUSTIN A. TATE 23632 STATE OF TEXAS
05/06/2025

Heflin Hounds Proudly Awesome

HEFLIN E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

3303 SYNOTT ROAD
HOUSTON, TX 77082

ISSUE FOR BID & PERMIT
05.06.2025

REVISIONS

1	ADD 1	06-16-25 COH COMMENTS
2	ADD 2	08-05-25 TAS COMMENTS
4		02-11-26 ISSUE FOR BID & PERMIT
5	ADD 6	02-25-26 ADD 6 BID ADDENDA
6	ADD 7	04-06-26 OWNER VE

39-25156-00

ENLARGED FLOOR PLANS & ELEVATIONS

A2.1

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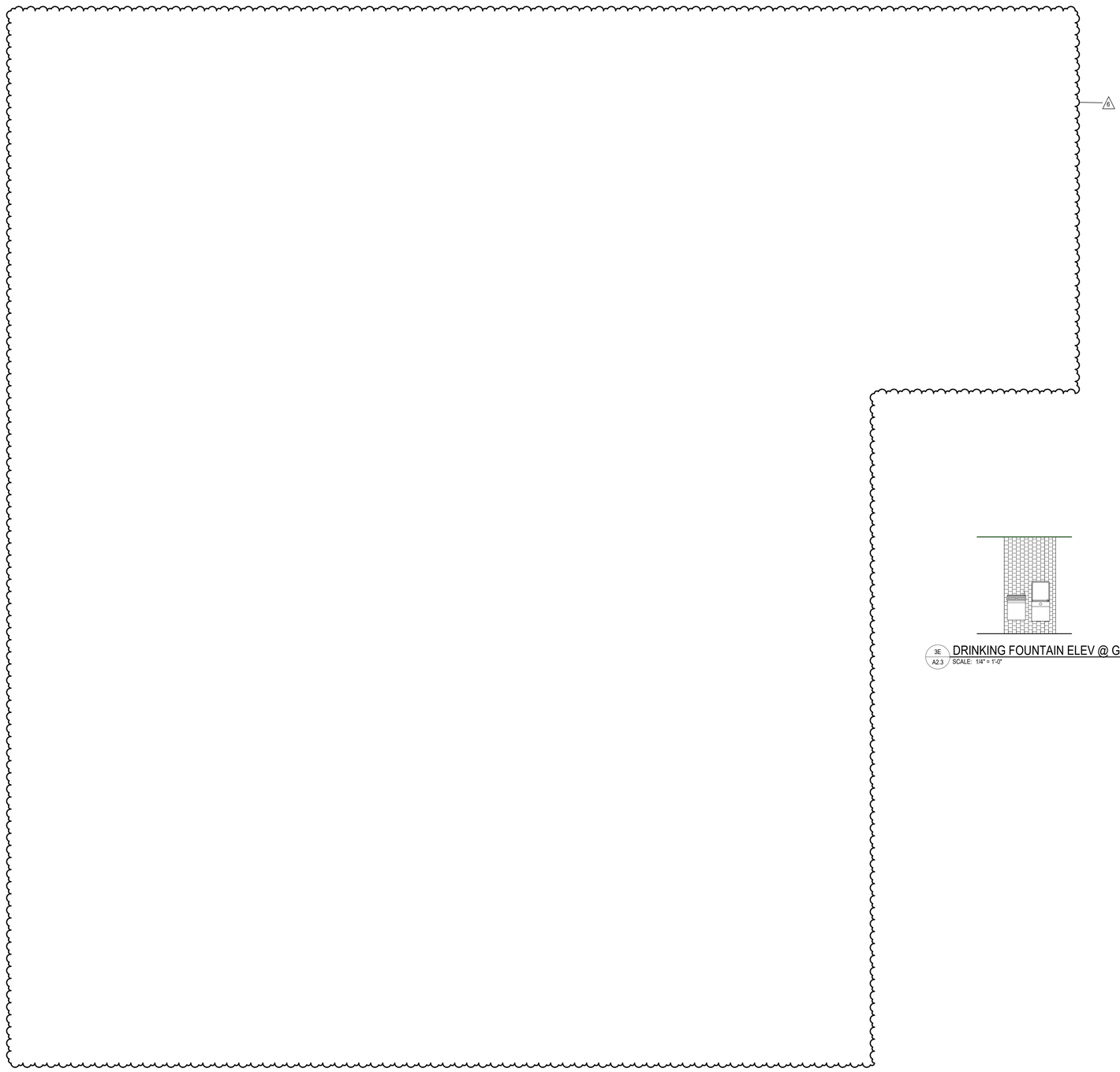

3E A2.3 DRINKING FOUNTAIN ELEV @ GIRLS 400
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
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GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
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HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

(#) SHEET NOTES

1 NEW BOTTLE FILLER DRINKING FOUNTAIN. REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.

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FINISH PLAN LEGEND

AREA NOT IN CONTRACT (NIC)
(NO) PLAN KEYED NOTE
CPT / VCT FLOOR FINISH TRANSITION
FLOOR MATERIAL DIRECTION
XX-01 FINISH MATERIAL TAG
XX-01 EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

DLRGROUP
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REGISTERED ARCHITECT TASHA A. SUSTAITA 23632 STATE OF TEXAS
05/06/2025

Heflin Hounds are Positively Awesome

HEFLIN E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

3303 SYNOTT ROAD
HOUSTON, TX 77082

ISSUE FOR BID & PERMIT
05.06.2025

REVISIONS

1	ADD 1	06-16-25	CCH COMMENTS
2	ADD 2	08-05-25	TAS COMMENTS
4		02-11-26	ISSUE FOR BID & PERMIT
6	ADD 7	04-06-26	OWNER VE

39-25156-00

ENLARGED FLOOR PLANS & ELEVATIONS

A2.3

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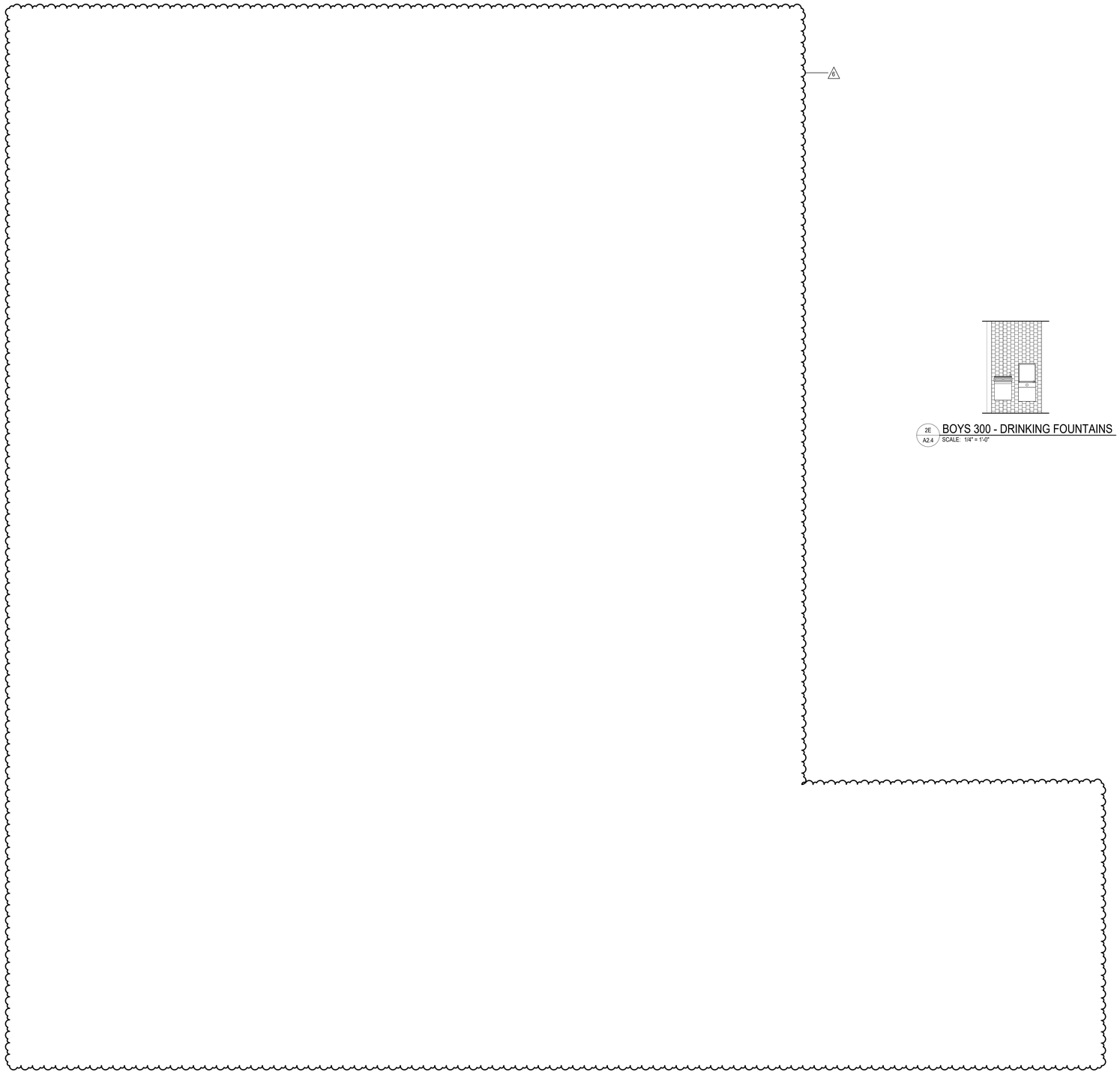

2E / A2.4 BOYS 300 - DRINKING FOUNTAINS
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES ABBREVIATIONS

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SCD	SEAT COVER DISPENSER
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SD	SOAP DISPENSER
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TTD	TOILET TISSUE DISPENSER
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REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

ACT, ACOUSTICAL CEILING TILE

XXX / X-XX — CEILING TYPE / CEILING HEIGHT

INTERIOR FINISH PLAN GENERAL NOTES

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E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
I. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
J. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
K. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR, UNO.
L. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

AREA NOT IN CONTRACT (NIC)

NO — PLAN KEYED NOTE

CPT / VCT — FLOOR FINISH TRANSITION

FLOOR MATERIAL DIRECTION

XX-01 — FINISH MATERIAL TAG

XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

DLR GROUP
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REGISTERED ARCHITECT JUSTIN A. TAYLOR 23632 STATE OF TEXAS
05/06/2025

Heflin Hounds Go Proudly Awesome

HEFLIN E.S. - RESTROOM RENOVATIONS

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39-25156-00

ENLARGED FLOOR PLANS & ELEVATIONS

A2.4

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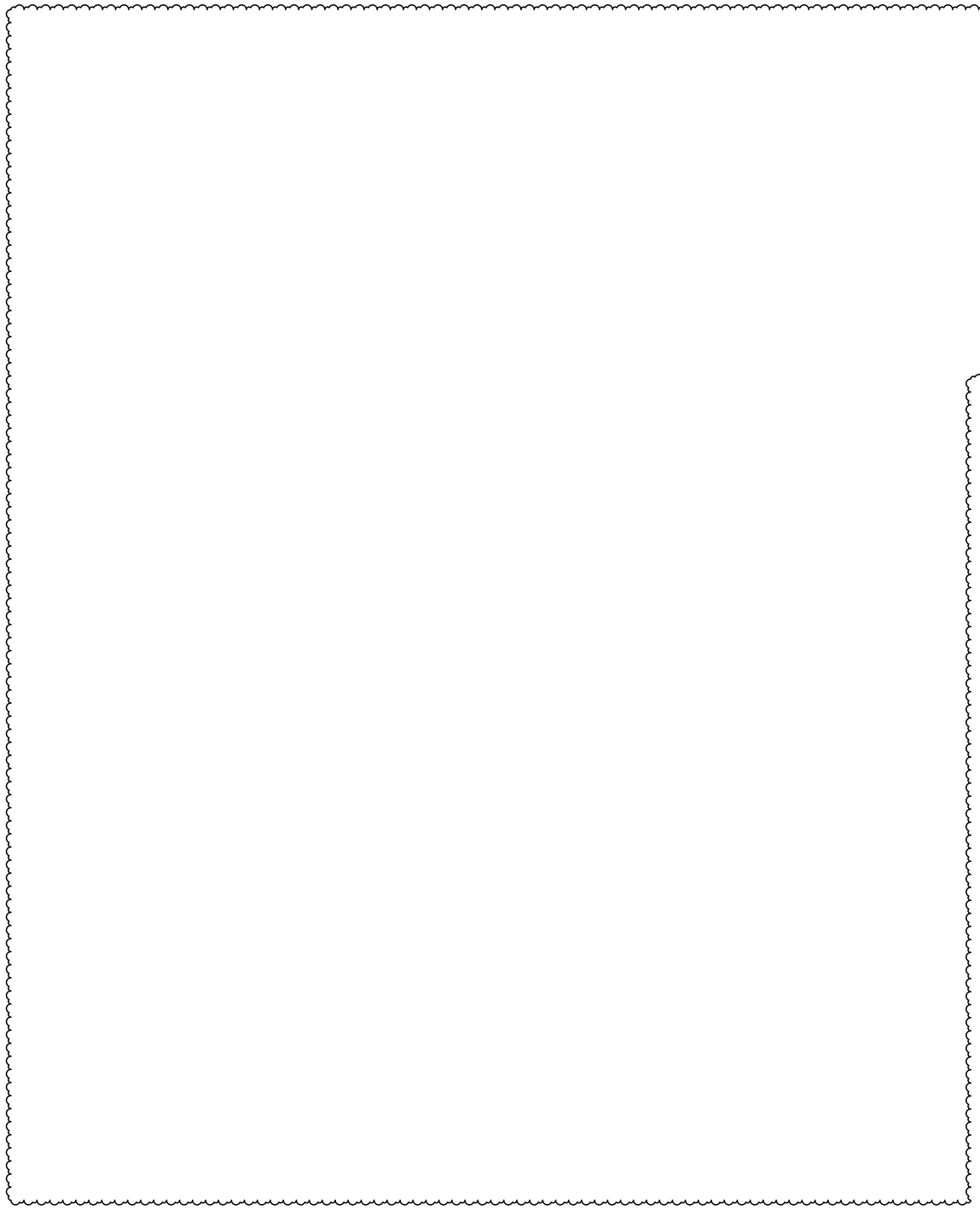

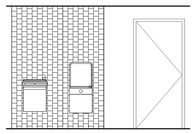

3E A2.5 DRINKING FOUNTAIN ELEV @ BOYS 200
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
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EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
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MBH	MOP/BROOM HOLDER
MR	MIRROR
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PTD	PAPER TOWEL DISPENSER
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RH	ROBE HOOK
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4 GC TO PROVIDE ADA CANE DETECTION APRON ON HIGH SIDE OF DRINKING FOUNTAIN.

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
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3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
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XX-01 FINISH MATERIAL TAG

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ENLARGED FLOOR PLANS & ELEVATIONS

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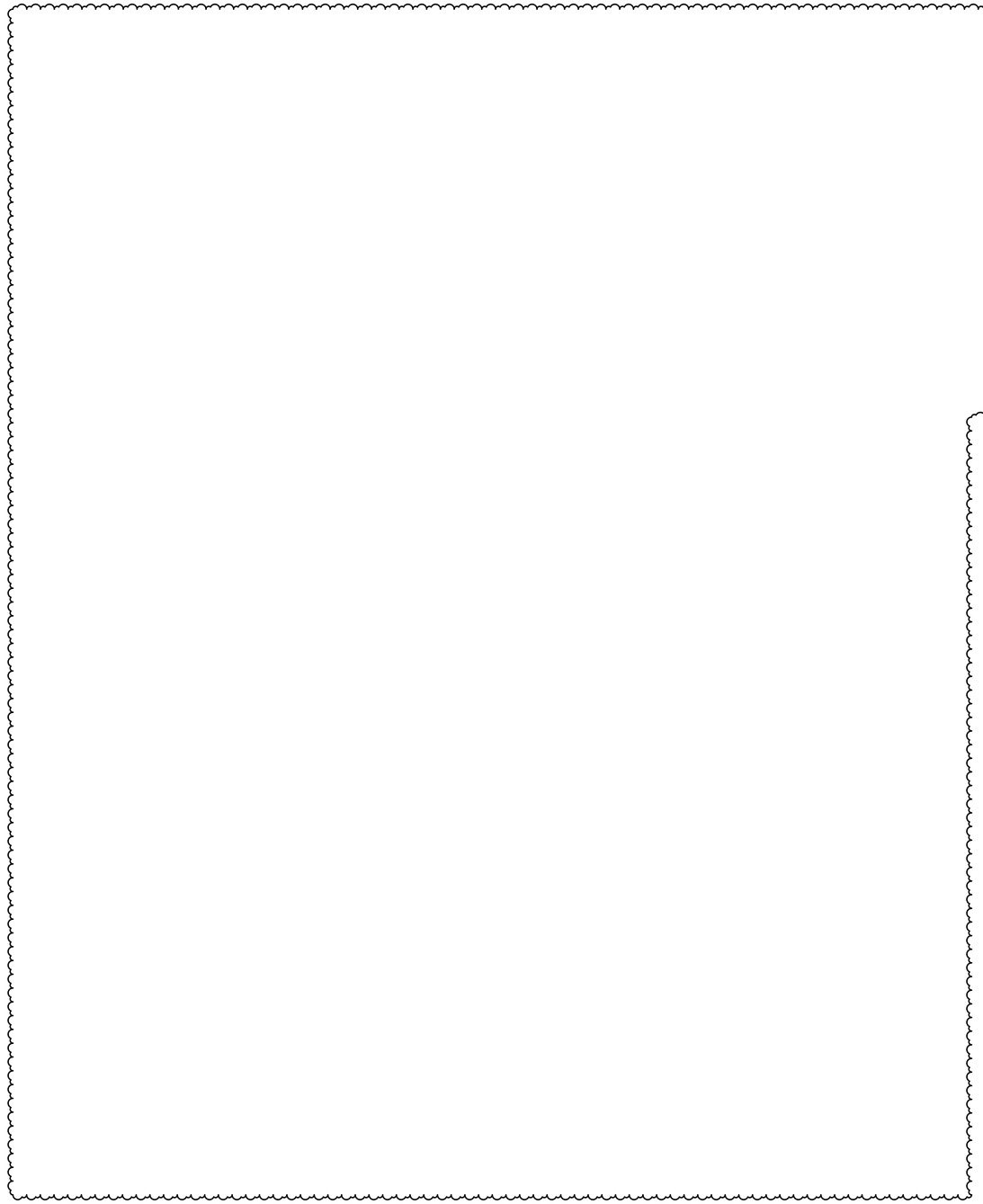

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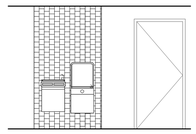
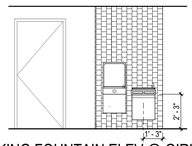


3E A2.6 DRINKING FOUNTAIN ELEV @ BOYS 100
SCALE: 1/4" = 1'-0"



3F A2.6 DRINKING FOUNTAIN ELEV @ GIRLS 100
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05/06/2025

Heflin Hounds are Predictively Awesome

HEFLIN E.S. - RESTROOM RENOVATIONS

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39-25156-00

ENLARGED FLOOR PLANS & ELEVATIONS

A2.6

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GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX_X_XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

ACT, ACOUSTICAL CEILING TILE

XXX — CEILING TYPE
X-XX — CEILING HEIGHT

INTERIOR FINISH PLAN GENERAL NOTES

A. FINISH SCHEDULE GENERAL NOTES APPLY TO ALL FINISH SCHEDULE SHEETS.
B. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
C. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS.
D. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED.
E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
I. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
J. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
K. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR, UNO.
L. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

AREA NOT IN CONTRACT (NIC)

N0 — PLAN KEYED NOTE

CPT / VCT — FLOOR FINISH TRANSITION

FLOOR MATERIAL DIRECTION

XX-01 — FINISH MATERIAL TAG

XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

DLR GROUP
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REGISTERED ARCHITECT — JUSTIN A. [illegible] — 23632 — STATE OF TEXAS
05/06/2025

Heflin Hounds — Go Proudly Awesome

HEFLIN E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

3303 SYNOTT ROAD
HOUSTON, TX 77082

ISSUE FOR BID & PERMIT
05.06.2025

REVISIONS

1	ADD 1	06-16-25	COH COMMENTS
3	ADD 5	10-31-25	CLIENT VE
4		02-11-26	ISSUE FOR BID & PERMIT
6	ADD 7	04-06-26	OWNER VE

39-25156-00

ENLARGED FLOOR PLANS & ELEVATIONS

A2.7

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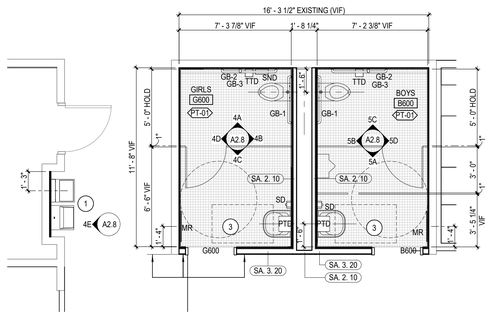
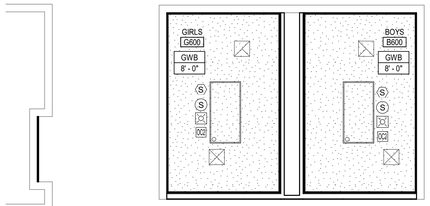


3A A2.8 ENLARGED FLOOR PLAN - BOYS / GIRLS 600
SCALE: 1/4" = 1'-0"



3C A2.8 ENLARGED RCP - BOYS / GIRLS 600
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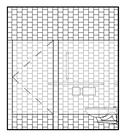
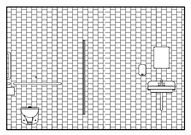
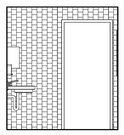


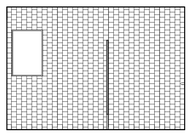
4A A2.8 G600 - GIRLS - NORTH
SCALE: 1/4" = 1'-0"



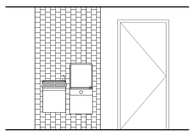
4B A2.8 G600 - GIRLS - EAST
SCALE: 1/4" = 1'-0"



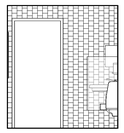
4C A2.8 G600 - GIRLS - SOUTH
SCALE: 1/4" = 1'-0"



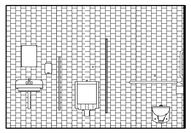
4D A2.8 G600 - GIRLS - WEST
SCALE: 1/4" = 1'-0"



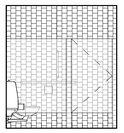
4E A2.8 DRINKING FOUNTAIN ELEV @ BOYS / GIRLS 600
SCALE: 1/4" = 1'-0"



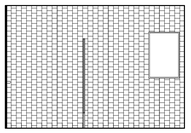
5A A2.8 B600 - BOYS - SOUTH
SCALE: 1/4" = 1'-0"



5B A2.8 B600 - BOYS - WEST
SCALE: 1/4" = 1'-0"



5C A2.8 B600 - BOYS - NORTH
SCALE: 1/4" = 1'-0"



5D A2.8 B600 - BOYS - EAST
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

(#) SHEET NOTES

1 NEW BOTTLE FILLER DRINKING FOUNTAIN. REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.
2 EXISTING SALVAGED RE-INSTALLED BOTTLE FILLER / DRINKING FOUNTAIN, REFER MEP DRAWINGS.
3 GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.
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5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
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9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

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E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES, AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

ACT, ACOUSTICAL CEILING TILE

XXX — CEILING TYPE
X-XX — CEILING HEIGHT

INTERIOR FINISH PLAN GENERAL NOTES

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B. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
C. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS.
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E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
I. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
J. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
K. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR, UNO.
L. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

AREA NOT IN CONTRACT (NIC)
(NO) PLAN KEYED NOTE
CPT / VCT FLOOR FINISH TRANSITION
FLOOR MATERIAL DIRECTION
XX-01 FINISH MATERIAL TAG
XX-01 EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

DLRGROUP
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REGISTERED ARCHITECT JUSTIN A. TAYLOR 23632 STATE OF TEXAS
05/06/2025

Heflin Hounds Proudly Awesome

HEFLIN E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

3303 SYNOTT ROAD
HOUSTON, TX 77082

ISSUE FOR BID & PERMIT
05.06.2025

REVISIONS

1	ADD 1	06-16-25	COH COMMENTS
2	ADD 2	08-05-25	TAS COMMENTS
3	ADD 5	10-31-25	CLIENT VE
4		02-11-26	ISSUE FOR BID & PERMIT

39-25156-00

ENLARGED FLOOR PLANS & ELEVATIONS

A2.8

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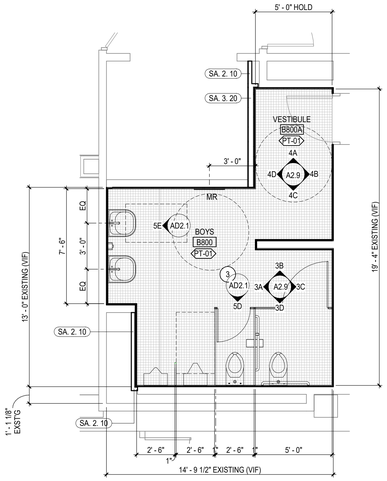
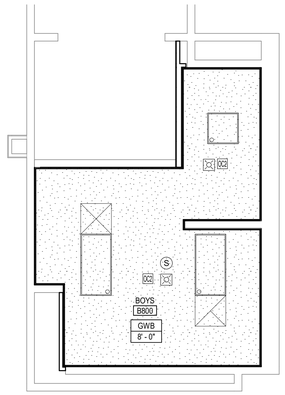
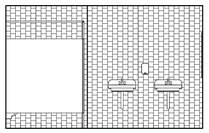


2A A2.9 ENLARGED FLOOR PLAN - BOYS 800
SCALE: 1/4" = 1'-0"



2B A2.9 ENLARGED REFLECTED CEILING PLAN - BOYS 800
SCALE: 1/4" = 1'-0"



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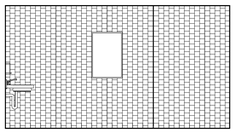

3B A2.9 B800 - BOYS - NORTH
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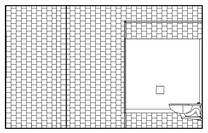
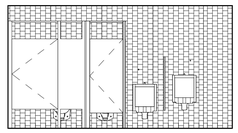
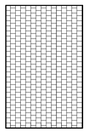


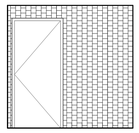
3C A2.9 B800 - BOYS - EAST
SCALE: 1/4" = 1'-0"



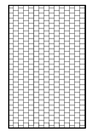
3D A2.9 B800 - BOYS - SOUTH
SCALE: 1/4" = 1'-0"



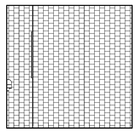
4A A2.9 B800A - VESTIBULE - NORTH
SCALE: 1/4" = 1'-0"



4B A2.9 B800A - VESTIBULE - EAST
SCALE: 1/4" = 1'-0"



4C A2.9 B800A - VESTIBULE - SOUTH
SCALE: 1/4" = 1'-0"



4D A2.9 B800A - VESTIBULE - WEST
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
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GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
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GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
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LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

(#) SHEET NOTES

1 NEW BOTTLE FILLER DRINKING FOUNTAIN, REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.

2 EXISTING SALVAGED RE-INSTALLED BOTTLE FILLER / DRINKING FOUNTAIN, REFER MEP DRAWINGS.

3 GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.

4 GC TO PROVIDE ADA CANE DETECTION APRON ON HIGH SIDE OF DRINKING FOUNTAIN.

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX_X_XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

ACT, ACOUSTICAL CEILING TILE

XXX — CEILING TYPE
X-XX — CEILING HEIGHT

INTERIOR FINISH PLAN GENERAL NOTES

A. FINISH SCHEDULE GENERAL NOTES APPLY TO ALL FINISH SCHEDULE SHEETS.
B. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
C. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS.
D. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED.
E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
I. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
J. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
K. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR, UNO.
L. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

AREA NOT IN CONTRACT (NIC)
NO — PLAN KEYED NOTE
CPT / VCT — FLOOR FINISH TRANSITION
FLOOR MATERIAL DIRECTION
XX-01 — FINISH MATERIAL TAG
XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

DLR GROUP
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REGISTERED ARCHITECT
JUSTIN A. FISHER
23632
STATE OF TEXAS
05/06/2025

Heflin Hounds
Proudly Awesome

HEFLIN E.S. - RESTROOM RENOVATIONS
ALIEF INDEPENDENT SCHOOL DISTRICT
3303 SYNOTT ROAD
HOUSTON, TX 77082

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
1 ADD 1 06-16-25 COH COMMENTS
3 ADD 5 10-31-25 CLIENT VE
4 02-11-26 ISSUE FOR BID & PERMIT

39-25156-00

ENLARGED FLOOR PLANS & ELEVATIONS

A2.9

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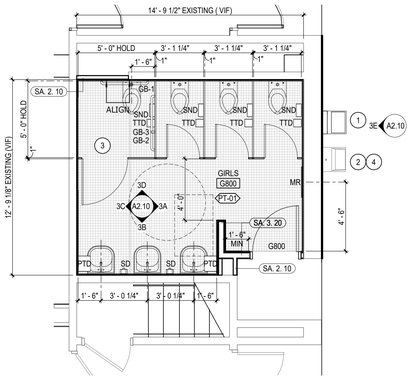
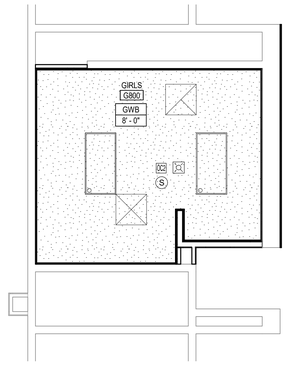
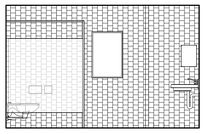


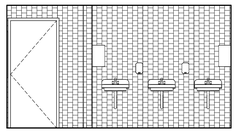
2A A2.10 ENLARGED FLOOR PLAN - GIRLS 800
SCALE: 1/4" = 1'-0"



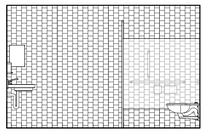
1B A2.10 ENLARGED REFLECTED CEILING PLAN - GIRLS 800
SCALE: 1/4" = 1'-0"



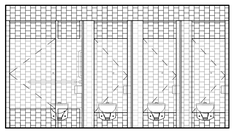
3A A2.10 G800 - GIRLS - EAST
SCALE: 1/4" = 1'-0"



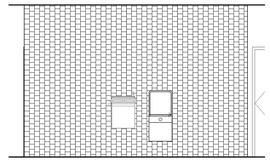
3B A2.10 G800 - GIRLS - SOUTH
SCALE: 1/4" = 1'-0"



3C A2.10 G800 - GIRLS - WEST
SCALE: 1/4" = 1'-0"



3D A2.10 G800 - GIRLS - NORTH
SCALE: 1/4" = 1'-0"



3E A2.10 DRINKING FOUNTAIN AT GIRLS 800
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES ABBREVIATIONS

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   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
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ACT, ACOUSTICAL CEILING TILE

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F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
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J. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
K. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR, UNO.
L. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

AREA NOT IN CONTRACT (NIC)
NO — PLAN KEYED NOTE
CPT / VCT — FLOOR FINISH TRANSITION
FLOOR MATERIAL DIRECTION
XX-01 — FINISH MATERIAL TAG
XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

DLR GROUP
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REGISTERED ARCHITECT
ABIRAM SUSTAITA
23632
STATE OF TEXAS
05/06/2025

Heflin Hounds
Proudly Awesome

HEFLIN E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

3303 SYNOTT ROAD
HOUSTON, TX 77082

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
1 ADD 1 06-16-25 COH COMMENTS
3 ADD 5 10-31-25 CLIENT VE
4 02-11-26 ISSUE FOR BID & PERMIT

39-25156-00

ENLARGED FLOOR PLANS & ELEVATIONS

A2.10

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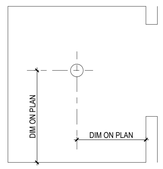
TYPICAL RULES FOR DETERMINING LOCATIONS OF VISIBLE CEILING ITEMS, DIMENSIONS, AND CONFIGURATIONS

LOCATE ITEMS AS INDICATED WHEN SHOWN DIMENSIONED BY A REFLECTED CEILING PLAN, ENLARGED REFLECTED CEILING PLAN, OR DETAIL.

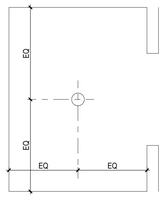
SPECIFIC DIMENSIONS SHOWN BY REFLECTED CEILING PLANS, ELEVATIONS, OR DETAILS TAKE PRECEDENCE OVER TYPICAL LOCATION RULES.



RULE 1

WHEN COMPLETELY DIMENSIONED ON REFLECTED CEILING PLAN

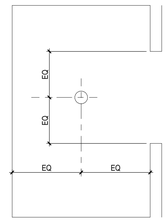
LOCATE ITEMS CENTERED IN SPACE (OR CEILING PLANE) WHEN SHOWN (BUT NOT DIMENSIONED) VISUALLY AT APPROXIMATE CENTER OF SPACE.



RULE 2

WHEN NOT DIMENSIONED BUT SHOWN CENTERED

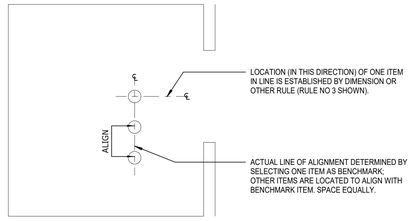
LOCATE ITEMS CENTERED ON ADJACENT OPENING OR FEATURE WHEN SHOWN (BUT NOT DIMENSIONED) OFF-CENTER IN OVERALL SPACE BUT CENTERED AGAINST ADJACENT FEATURE.



RULE 3

WHEN OFF-CENTER IN SPACE BUT CENTERED ON ADJACENT FEATURE

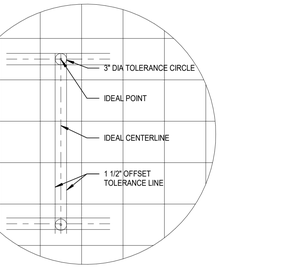
LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC) ALIGNED WITH ADJACENT ITEMS FOR WHICH DIMENSIONS OR RULES ARE PROVIDED. VISUAL ALIGNMENT IS CRITICAL. THE CONTRACTOR SHALL SELECT ONE ITEM IN EACH LINE (ON BASIS OF TOLERANCES, SEQUENCE OF CONSTRUCTION, TRADE, OR OTHER CRITERIA) TO SERVE AS THE BENCHMARK FOR EACH ALIGNMENT.



RULE 4

WHEN ALIGNED WITH OTHER FEATURES

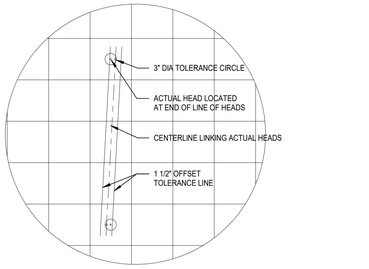
LOCATE ITEMS ALIGNED WITH OTHER ITEMS SHOWN DIMENSIONED ELSEWHERE IN SPACE (OR CEILING PLANE).



RULE 5

ALIGN WITH FEATURES SHOWN DIMENSIONED ELSEWHERE IN SPACE

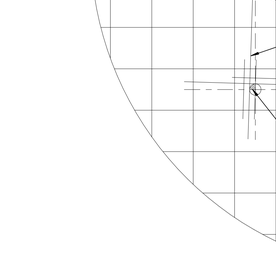
LOCATE ITEMS ALIGNED WITH OTHER ITEMS SHOWN DIMENSIONED ELSEWHERE IN SPACE (OR CEILING PLANE).



RULE 6

LOCATE FEATURES SYMMETRICALLY

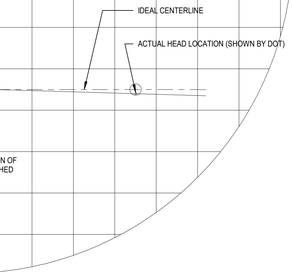
LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC) AT CENTER OF OF PANEL ON SQUARE GRID-TYPE CEILINGS



RULE 7

WHEN NOT DIMENSIONED BUT OCCURS ON A SQUARE GRID-TYPE CEILING

LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC) AT CENTER OF SHORT DIRECTION OF RECTANGULAR PANEL; LOCATE AT 1/4, 1/2, OR 3/4 POINT OF LONG DIRECTION OF RECTANGULAR PANEL



RULE 8

WHEN NOT DIMENSIONED BUT OCCURS ON A RECTANGULAR GRID-TYPE CEILING

TYPICAL TOLERANCES FOR LOCATING SPRINKLER HEADS

FOR MANY SPACES, THE ARCHITECTURAL REFLECTED CEILING PLANS ESTABLISH AN IDEAL PATTERN FOR LOCATING SPRINKLER HEADS. IN SPACES WHERE HEADS ARE SHOWN, FOLLOW PATTERN ESTABLISHED BY THE DRAWINGS. WHERE ADDL HEADS ARE REQUIRED TO CONFORM WITH CODE, PROVIDE HEADS IN GENERAL CONFORMITY WITH PATTERN ESTABLISHED BY THE DRAWINGS.

IN SPACES WHERE SPRINKLER HEADS ARE NOT SHOWN IN THE ARCHITECTURAL REFLECTED CEILING PLANS, PROVIDE HEADS AS REQUIRED BY CODE.

RULE 1

LOCATE HEADS AS SHOWN ON A-SERIES DRAWINGS

LOCATE SPRINKLER HEADS WITHIN 3" DIAMETER OF IDEAL POINT DIMENSIONED (OR SHOWN BY RULE) ON REFLECTED CEILING PLAN.

RULE 2

LOCATE HEADS WITHIN 3" DIAMETER OF IDEAL LOCATION POINT

LOCATE SPRINKLER HEADS WITHIN 3" DIAMETER OF IDEAL POINT DIMENSIONED (OR SHOWN BY RULE) ON REFLECTED CEILING PLAN.

RULE 3

LOCATE LINES OF HEADS WITHIN 1 1/2" OF IDEAL CENTERLINE

LOCATE SPRINKLER HEADS WITHIN 3" DIAMETER OF IDEAL POINT DIMENSIONED (OR SHOWN BY RULE) ON REFLECTED CEILING PLAN.

RULE 4

LOCATE LINES OF HEADS WITHIN 1 1/2" OF LINE LINKING ACTUAL END HEADS

RULES NO. 2, NO. 3, AND 4 WHEN COMBINED MAY RESULT IN MORE RESTRICTIVE TOLERANCES

RULE 5

RULES COMBINED

GENERAL NOTES

A. THE A-SERIES DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND LOCATION OF ALL EXPOSED ELEMENTS. THE A-SERIES DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND LOCATION OF ALL PARTS OF THE WORK.

EXCEPTION: DIMENSIONED LOCATIONS SHOWN ON ON DRAWINGS OF OTHER DISCIPLINES SHALL GOVERN ONLY WHERE:

1. SPECIFICALLY AND INDIVIDUALLY INDICATED BY SYMBOL, KEYED NOTE, OR NOTATION ON THE ARCHITECTURAL DRAWINGS.
2. OCCURRING WITHIN A ROOM OR OTHER IDENTIFIABLE SPACE FOR WHICH ARCHITECTURE SHEET OR SCHEDULE NOTES INDICATE THAT DIMENSIONS PROVIDED ELSEWHERE SHALL GOVERN.

B. THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE THE TYPICAL RULES WHICH GOVERN THE LOCATION, CONFIGURATION IN RELATIONSHIP TO OTHER ELEMENTS OF THE WORK, AND FINISHED ALIGNMENT OF ALL ITEMS OCCURRING ON REFLECTED CEILING PLANS OF THE PROJECT.

C. THE A-SERIES FLOOR PLANS, REFLECTED CEILING PLANS, SECTIONS, ELEVATIONS, AND DETAILS ILLUSTRATE THE DIMENSIONED LOCATION OF MANY - BUT NOT ALL - EXPOSED PARTS OF THE WORK. APPLY THE RULES ON THIS SHEET - IN DESCENDING ORDER - TO DETERMINE THE LOCATION OF EXPOSED PART OF THE WORK.

1. WHEN UNIQUELY AND SPECIFICALLY DIMENSIONED ON THE A-SERIES PLANS, SECTIONS, OR ELEVATIONS (OR COMBINATION THEREOF), LOCATE AS DIMENSIONED.
2. IF NOT SHOWN, OR IF SHOWN BUT NOT DIMENSIONED, BY THE A-SERIES PLANS OR ELEVATIONS, LOCATE AS INDICATED BY THE APPLICABLE RULE.

D. REFER TO THE "ARCHITECTURAL GENERAL NOTES" FOR ADDITIONAL NOTES WHICH MAY BE APPLICABLE TO THE WORK SHOWN ON THIS SHEET.

E. REFER TO THE "PROJECT GENERAL NOTES" FOR ADDITIONAL NOTES WHICH APPLY TO THE ENTIRE PROJECT.

DLR GROUP
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REGISTERED ARCHITECT JUSTIN T. ALLEN 23632 STATE OF TEXAS
02/06/2025

Heflin Hounds
Proudly Awesome

HEFLIN E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

3303 SYNOTT ROAD
HOUSTON, TX 77082

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TYPICAL REFLECTED CEILING PLAN RULES

A3.0

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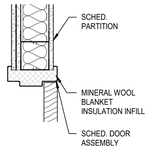
DOOR AND FRAME SCHEDULE

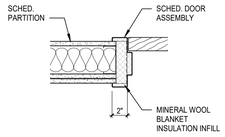
NUMBER	PANEL NO. OF PANELS	PANEL WIDTH	PANEL HEIGHT	PANEL THICKNESS	PANEL MATERIAL	PANEL GLASS	PANEL TYPE	FRAME MATERIAL	FRAME TYPE	FIRE RATING	HARDWARE SET	DETAILS HEAD	DETAILS JAMB LEFT	DETAILS JAMB RIGHT	DETAILS SILL	COMMENTS
B600								HM			002	2A/A8.2	2B/A8.2	2B/A8.2 O.H.	2C/A8.2	CASED OPENING
G600								HM			002	2A/A8.2	2B/A8.2	2B/A8.2 O.H.	2C/A8.2	CASED OPENING
G800	1	3' - 0"	7' - 0"	1 3/4"	WD		F	HM	1		801	2A/A8.2	2B/A8.2	2B/A8.2 O.H.	2C/A8.2	DOOR PLAM TO MATCH EXISTING

NOTE:
GC TO PAINT ALL DOOR FRAMES AND CASED OPENINGS TOUCHED BY THIS RENOVATION PROJECT (EXISTING OR NEW), TO MATCH ADJACENT WALL COLOR.

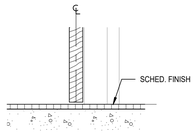
GC TO FIELD VERIFY EXISTING DOOR OPENINGS AND COORDINATE NEW OPENINGS WITH EXISTING.



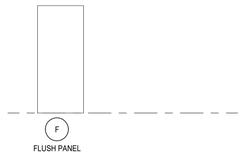
2A A8.2 HM DOOR HEAD
SCALE: 1 1/2" = 1'-0"



2B A8.2 HM DOOR JAMB
SCALE: 1 1/2" = 1'-0"

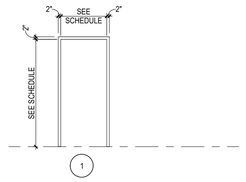


2C A8.2 HM DOOR SILL
SCALE: 1 1/2" = 1'-0"

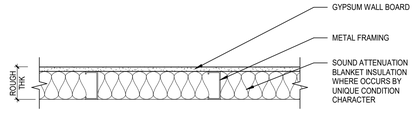


FLUSH PANEL

DOOR PANEL TYPES

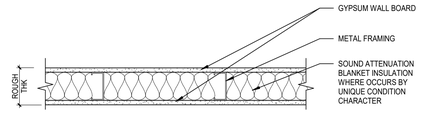


INTERIOR FRAME TYPES



S_-_-1_ NON-RATED STUD PARTITION

MARK			ROUGH THICKNESS	FIRE/SMOKE RATING	FIRE/SMOKE TESTED ASSEMBLIES	SOUND STC RATING	SOUND TESTED ASSEMBLIES	T.O. WALL DETAIL	B.O. WALL DETAIL	COMMENTS
SA	2	10	3 1/8"	NR	NA					



S_-_-2_ NON-RATED STUD PARTITION

MARK			ROUGH THICKNESS	FIRE/SMOKE RATING	FIRE/SMOKE TESTED ASSEMBLIES	SOUND STC RATING	SOUND TESTED ASSEMBLIES	T.O. WALL DETAIL	B.O. WALL DETAIL	COMMENTS
SA	3	20	4 7/8"	NR	NA					

DOOR AND FRAME SCHEDULE GENERAL NOTES

A. ALL EXTERIOR HOLLOW METAL FRAMES SHALL BE FILLED WITH INSULATION.
B. ALL INTERIOR HOLLOW METAL FRAMES SET IN MASONRY AND CONCRETE WALLS SHALL BE GROUTED SOLID.
C. ALL HOLLOW METAL FRAMES SET IN METAL STUD WALLS SHALL BE FILLED WITH MINERAL WOOL BLANKET INSULATION.
D. ALL EXTERIOR FRAMES SHALL BE INSTALLED WITH 1/4" SHIM AND SEALANT AROUND PERIMETER OF FRAME.
E. MASONRY LINTELS AND STEEL LINTELS ARE SHOWN ON STRUCTURAL DRAWINGS.
F. GLASS TYPES FOR DOORS ARE INDICATED IN THE DOOR GLAZING COLUMN OF THE DOOR AND FRAME SCHEDULE. GLASS TYPES FOR FRAMES ARE INDICATED ON THE FRAME ELEVATIONS.
G. FOR COILING DOORS, GRILLES AND SECTIONAL DOORS, WIDTH AND HEIGHT DIMENSIONS SHOWN IN DOOR AND FRAME SCHEDULE REPRESENT FINISHED OPENING SIZE. CONTRACTOR TO COORDINATE EXACT SIZE OF DOOR WITH MANUFACTURER.
H. FRAME MANUFACTURER SHALL COORDINATE LOCATIONS OF ALL CONCEALED CONDUIT AND J-BOXES REQUIRED FOR SECURITY SYSTEM HARDWARE PRIOR TO MANUFACTURING OF HOLLOW METAL FRAMES AND COORDINATE WITH SECURITY HARDWARE AND DEVICES.
I. PROVIDE HEAD RECEIVERS AT ALUMINUM STOREFRONTS AND CURTAIN WALLS AS REQUIRED FOR STRUCTURAL DEFLECTION ALLOWANCE.
J. SEE SPECIFICATIONS HARDWARE SECTION FOR HARDWARE SETS NOTED IN DOOR AND FRAME SCHEDULE.

DOOR PANEL TYPE DESCRIPTIONS

DG	DUAL LITE GLASS
F	FLUSH PANEL
FG	FULL LITE GLASS
FL	FULL LOUVERED
G	HALF LITE GLASS
GL	HALF LITE GLASS & LOUVERED
L	LOUVERED (BOTTOM)
LL	LOUVERED (TOP & BOTTOM)
N	NARROW LITE GLASS
NL	NARROW LITE GLASS & LOUVERED
TL	LOUVERED (TOP)
V	VISION LITE GLASS (10" SQUARE)
VL	VISION LITE GLASS & LOUVERED

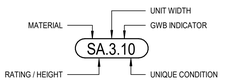
PARTITION TYPES DESCRIPTIONS

MATERIAL DESCRIPTION
S = STEEL (METAL STUDS)
W = WOOD STUDS
H = SHAFT WALLS
M = MASONRY
C = CONCRETE

RATING / HEIGHT
A = FULL HEIGHT / UNDERSIDE OF STRUCT (NOT RATED)
B = 6" ABOVE CEILING (NOT RATED)
C = UNDERSIDE OF CEILING (NOT RATED)
D = PARTIAL HEIGHT (NOT RATED)
X = VARIABLE HEIGHT (NOT RATED)
S = SMOKE PARTITON (NOT RATED)
0 = 0 HOUR RATED (CORRIDOR)
5 = 0.5 HOUR RATED
1 = 1 HOUR RATED
2 = 2 HOUR RATED
3 = 3 HOUR RATED
4 = 4 HOUR RATED

UNIT WIDTH / CONFIGURATION
F = FURRING STRIPS / CHANNELS
1 = 1 5/8" METAL
2 = 2 1/2" METAL / 1 1/2" WOOD
3 = 3 5/8" METAL
4 = 4" METAL / 3 1/2 WOOD / 3 5/8" CMU
6 = 6" METAL / 5 1/2" WOOD / 5 5/8" CMU / 6" CONC
8 = 8" METAL / 7 1/4" WOOD / 7 5/8" CMU / 8" CONC
10 = 10" CONC
12 = 11 5/8" CMU / 12" CONC
X = NON-STANDARD WIDTH, SEE DETAILS
D = DOUBLE STUD FRAMING
S = STAGGERED STUD FRAMING

GYPSUM WALLBOARD INDICATOR
(NOT INCLUDING SHAFT LINER)
0 = NO GWB
1 = ONE LAYER, TAG SIDE
2 = ONE LAYER, EACH SIDE
3 = TWO LAYERS TAG SIDE, ONE LAYER OTHER
4 = TWO LAYERS, EACH SIDE
5 = TWO LAYERS TAG SIDE, NO GWB OTHER
6 = THREE LAYERS, EACH SIDE



WALL TYPE TAG

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REGISTERED ARCHITECT JUSTIN A. ALEXANDER 23632 STATE OF TEXAS
05/06/2025

Heflin Hounds are Positively Awesome

HEFLIN E.S. - RESTROOM RENOVATIONS
ALIEF INDEPENDENT SCHOOL DISTRICT
3303 SYNOTT ROAD
HOUSTON, TX 77082

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DOOR & FRAME TYPE & SCHEDULE

A8.2

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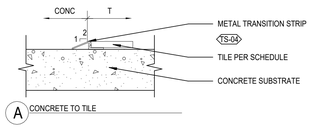
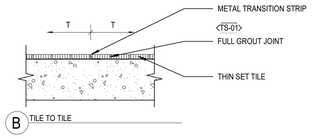
FINISH SCHEDULE

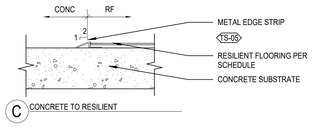
TAG	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR/FINISH	SIZE	COMMENTS
093013 TILING, GROUT & METAL TRIM ACCESSORIES						
CT-01	CERAMIC TILE	DALTILE	COLOR WHEEL CLASSIC	MATTE DESERT GRAY X114	4X4	RESTROOM WALL TILE, WATER-RESISTANT GYPSUM BOARD SHALL BE USED AS A BASE FOR WALL TILE AS SPECIFIED.
CT-02	CERAMIC TILE	DALTILE	COLOR WHEEL CLASSIC	SEA BREEZE 1174	4X4	RESTROOM ACCENT WALL TILE, WATER-RESISTANT GYPSUM BOARD SHALL BE USED AS A BASE FOR WALL TILE AS SPECIFIED.
G-01	GROUT	LATICRETE	PERMACOLOR	RAVEN 45		1/8" GROUT JOINT THICKNESS
PT-01	PORCELAIN TILE	DALTILE	COLOR WHEEL CLASSIC	MATTE CHARCOAL 0780	2X2	RESTROOM FLOOR TILE, CLASS A FOR ASTM E84 & CLASS II FOR MINIMUM CRITICAL RADIANT FLUX.
TS-1	METAL TRIM ACCESSORY	SCHLUTER	METAL COVE SHAPED TRIM - DILEX-AHK			AT BOTTOM OF WALL TILES
TS-2	METAL TRIM ACCESSORY	SCHLUTER	FINEC			AT OUTSIDE CORNER EDGES
099124 PAINTING						
P-01	PAINT	BENJAMIN MOORE	LOW VOC, PREMIUM PAINT	BABY'S BREATH CEILING, EGGSHELL FINISH		CLASS A FOR ASTM E84
P-02	PAINT	BENJAMIN MOORE	LOW VOC, PREMIUM PAINT	DECORATOR'S WHITE CC-20; SEMI-GLOSS FINISH		CLASS A FOR ASTM E84
102100 TOILET COMPARTMENTS						
TC-01	TOILET COMPARTMENT	ASI PARTITIONS	SOLID PLASTIC (HDPE)	AZURE 9231		FLOOR ANCHORED; TOP BRACED, CLASS A FOR ASTM E84
PLASTIC LAMINATE LEGEND. SPEC SECTIONS: 064023, 064116, 123213, 123623.13						
PL-01	PLASTIC LAMINATE	WILSONART		MATCH NEW LIBRARY SIGNAGE		FOR ROOM SIGNAGE



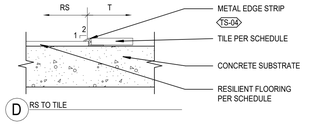
A CONCRETE TO TILE



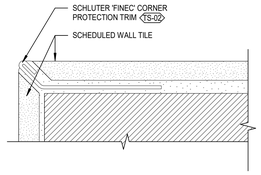
B TILE TO TILE



C CONCRETE TO RESILIENT



D RS TO TILE



2C A12.01 OUTER CORNER TILE TRANSITION
SCALE: 12" = 1'-0"

2D A12.01 FLOOR TRANSITION DETAILS
SCALE: 1 1/2" = 1'-0"

FINISH SCHEDULE GENERAL NOTES

A. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE ROOM FINISH SCHEDULE OR FINISH PLANS.
B. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
C. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-? UNLESS NOTED OTHERWISE.
D. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
E. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
F. CONTRACTOR SHALL FURNISH AND INSTALL WALL BASE AROUND CASEWORK AND MILLWORK.
G. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR.
H. SEE SHEET XX.X FOR TYPICAL TACKWALL DETAILS.
I. SEE SHEET XX.X FOR ACOUSTICAL WALL PANEL ELEVATIONS AND DETAILS.

CASEWORK AND MILLWORK GENERAL NOTES

A. CASEWORK AND MILLWORK GENERAL NOTES APPLY TO ALL CASEWORK/MILLWORK SHEETS.
B. ELEVATIONS DENOTED AS MILLWORK ARE SPECIFIED UNDER DIVISION 06. ALL OTHERS SHALL BE SPECIFIED UNDER DIVISION 12, UNLESS NOTED OTHERWISE.
C. ALL BASE CABINETS TO BE 2'-0" DEEP UNITS, UNLESS NOTED OTHERWISE.
D. ALL UPPER WALL CABINETS TO BE 1'-2" DEEP UNITS, UNLESS NOTED OTHERWISE.
E. ALL TALL STORAGE CABINETS TO BE 2'-0" DEEP UNITS, UNLESS NOTED OTHERWISE.
F. ALL SHELVING IN CASEWORK TO BE ADJUSTABLE SHELVING, UNLESS NOTED OTHERWISE.
G. CATALOG NUMBERS SHOWN ON THE ELEVATIONS FOR CASEWORK ARE XXXXX MANUFACTURER, UNLESS NOTED OTHERWISE . (M) AFTER THE CATALOG NUMBER INDICATES THE CABINET IS SHOWN MODIFIED FROM THE MANUFACTURER'S STANDARD.
H. ▨ INDICATES CASEWORK TO BE BID AS AN ALTERNATE. SEE ALTERNATES SECTION IN THE SPECIFICATIONS FOR DESCRIPTIONS.
I. WHERE PLUMBING OR ELECTRICAL DEVICES ARE LOCATED IN CASEWORK, CASEWORK CONTRACTOR SHALL PROVIDE OPENINGS. COORDINATE LOCATION AND QUANTITY WITH THE PLUMBING OR ELECTRICAL CONTRACTOR.
J. PROVIDE SEALANT AT ALL PERIMETER JOINTS WHERE COUNTERTOPS, BACK AND SIDE SPLASHES, CASEWORK AND MILLWORK ABUT WALLS.
K. FIELD VERIFY ALL DIMENSIONS OF CABINET LOCATIONS IN THE BUILDING PRIOR TO FABRICATION.
L. PROVIDE LOCKS WHERE INDICATED AT DOORS AND DRAWERS.
M. PROVIDE FINISHED ENDS AT ALL EXPOSED ENDS OF CASEWORK AND MILLWORK.
N. ALL EXPOSED SURFACES IN OPEN SHELVING SHALL BE PLASTIC LAMINATE COVERED.
O. SEE DETAIL XX/AX.X FOR TYPICAL COUNTERTOP DETAIL.

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ABIRAM USTARIZ
23632
STATE OF TEXAS
05/06/2025

Heflin Hounds
Proudly Awesome

HEFLIN E.S. - RESTROOM RENOVATIONS
ALIEF INDEPENDENT SCHOOL DISTRICT
3303 SYNOTT ROAD
HOUSTON, TX 77082

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
1 ADD 1 06-16-25 COH COMMENTS
4 02-11-26 ISSUE FOR BID & PERMIT

39-25156-00

FINISH SCHEDULES

A12.01

Autodesk Docs://39-25156-00 Alief ISD restrm reno/39-25156-00 Heflin Elementary_AR_2024.rvt
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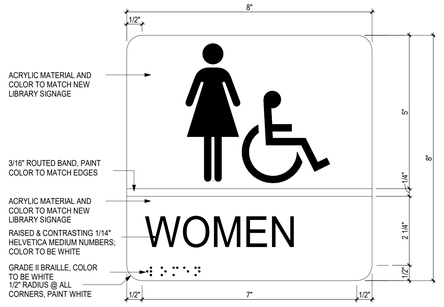
ROOM SIGN SCHEDULE				
CONSTRUCTION ROOM NUMBER (FOR CONSTRUCTION PURPOSES ONLY)	CONSTRUCTION ROOM NAME (FOR CONSTRUCTION PURPOSES ONLY)	ALIEF ISD ROOM SIGN NUMBER (FOR ROOM SIGNAGE INSTALLATION)	ALIEF ISD ROOM SIGN NAME (FOR ROOM SIGNAGE INSTALLATION)	SIGN TYPE
B600	BOYS			B
B800	BOYS			B
B800A	VESTIBULE			N/A
G600	GIRLS			A
G800	GIRLS			A

△6

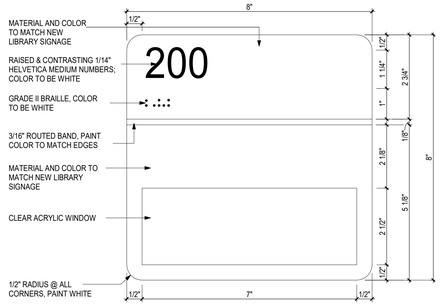
NOTE: ACTUAL ROOM NUMBERS AND ROOM NAMES TO BE PROVIDED AT LATER DATE.



TYPE A (SHOWN) - WOMEN
TYPE B - MEN

SIGN TYPE A & B - TOILET SIGN

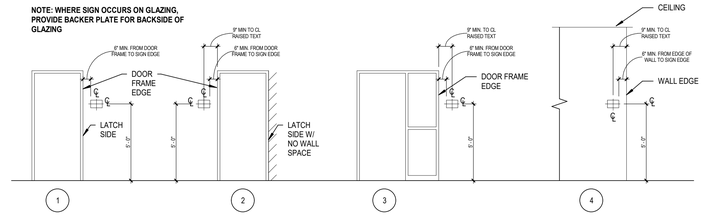
SCALE: 6" = 1'-0"

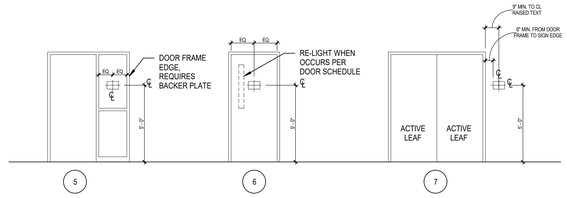


SIGN TYPE E - ADMIN SPACES

SCALE: 6" = 1'-0"

NOTE: WHERE SIGN OCCURS ON GLAZING, PROVIDE BACKER PLATE FOR BACKSIDE OF GLAZING





SIGN MOUNTING HEIGHTS

SCALE: 1/4" = 1'-0"

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REGISTERED ARCHITECT
JUSTIN A. TAYLOR
23632
STATE OF TEXAS
05/06/2025

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REVISIONS

4	02-11-26	ISSUE FOR BID & PERMIT
6 ADD 7	04-06-26	OWNER VE

39-25156-00

SIGNAGE PLAN

A14.1

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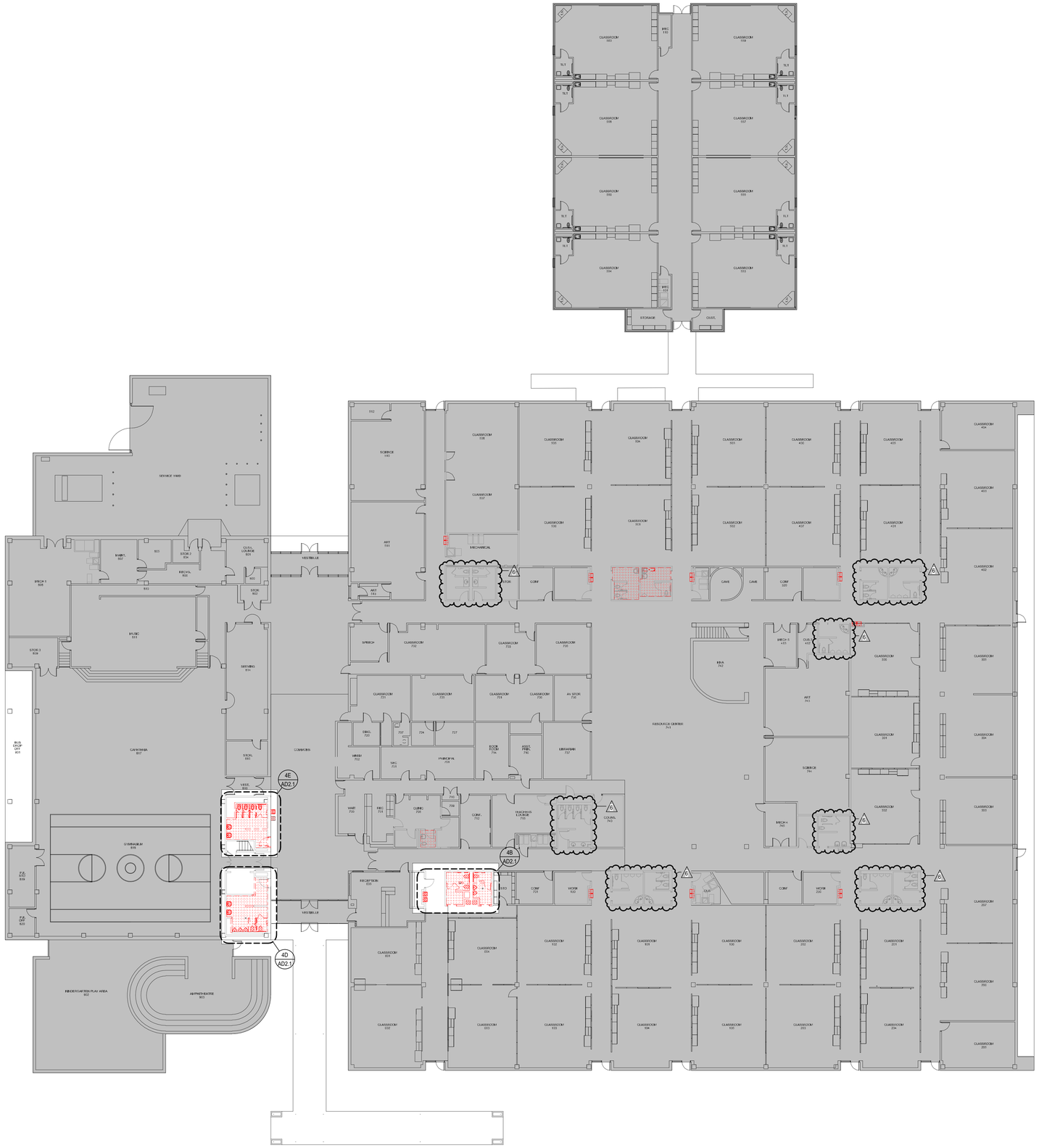

N TRUE

1 AD1.1 OVERALL - DEMOLITION PLAN

SCALE: 1/16" = 1'-0"

DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL ENGINEER.
P. WHERE CMU WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING CMU IN TOOTH-IN PATTERN BOTH SIDES OF DEMOLITION FOR CONTRACTOR TO TOOTH-IN NEW CMU PATCHES.
Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

REFERENCE KEYNOTES

SHEET NOTES

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REGISTERED ARCHITECT JUSTIN A. LEE 23632 STATE OF TEXAS
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6 ADD 7 04-06-26 OWNER VE

39-25156-00

OVERALL - DEMOLITION PLAN

AD1.1

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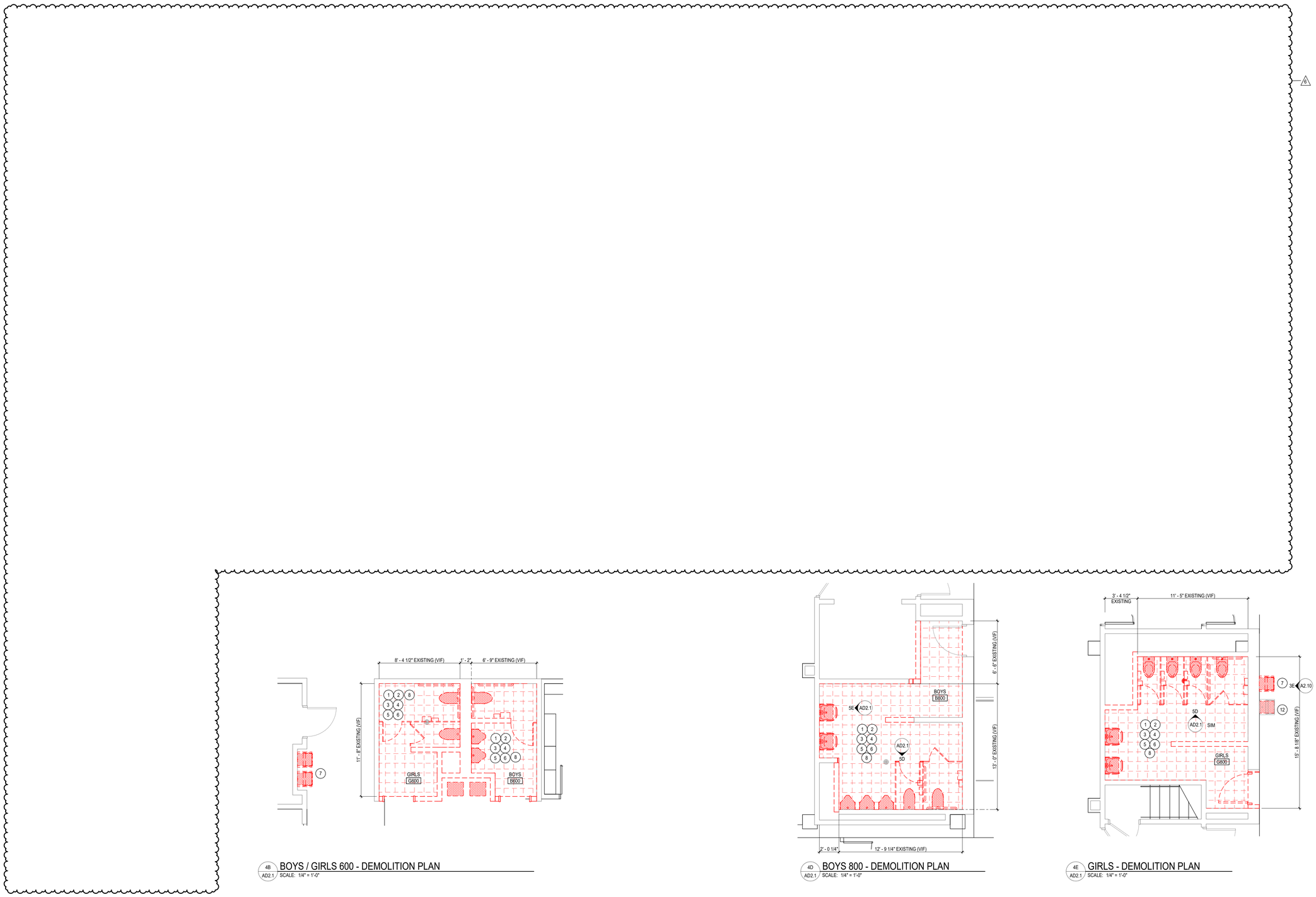
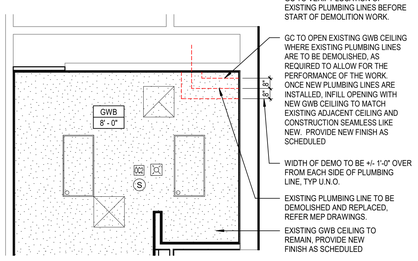


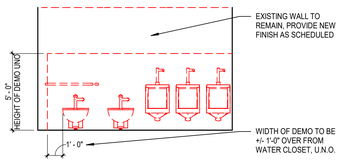
4B AD2.1 BOYS / GIRLS 600 - DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

4D AD2.1 BOYS 800 - DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

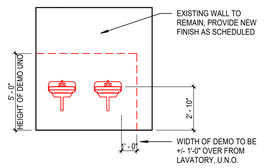
4E AD2.1 GIRLS - DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



5A AD2.1 TYP ENLARGED RCP @ GWB PLUMBING DEMOLITION
SCALE: 1/4" = 1'-0"



5D AD2.1 TYP ELEV AT EXISTING WC WALL DEMO
SCALE: 1/4" = 1'-0"



5E AD2.1 TYP ELEV AT EXISTING LAV WALL DEMO
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SHEET NOTES

1 GC TO VERIFY EXISTING FLOOR FINISH. IF EXISTING FLOOR FINISH IS TERRAZZO, GC IS TO KEEP EXISTING FLOOR FINISH, DEEP CLEAN, POLISH AND PROTECT IT. IF EXISTING FLOOR FINISH IS NOT TERRAZZO, IT IS TO BE REMOVED AND DISCARDED.
2 EXISTING PLUMBING FIXTURES AND ACCESSORIES, REMOVE AND DISCARD. CAP UNUSED PLUMBING OUT OF SIGHT, REFER TO PLUMBING DRAWINGS.
3 EXISTING WALL FINISH, REMOVE AND DISCARD. PREP WALL TO RECEIVE NEW FINISHES.
4 EXISTING TOILET PARTITION (AND OR URINAL SCREEN), REMOVE AND DISCARD.
5 EXISTING WALL, REMOVE AND DISCARD TO EXTENTS SHOWN.
6 EXISTING MILLWORK, REMOVE AND DISCARD.
7 EXISTING DRINKING FOUNTAIN, REMOVE AND DISCARD.
8 EXISTING CEILING AND LIGHT FIXTURES, REMOVE AND DISCARD, REFER 5A/AD2.1 FOR ADDITIONAL NOTES.
12 EXISTING DRINKING FOUNTAIN, REMOVE AND SALVAGE FOR RE-USE, PROTECT.

DEMOLITION PLAN LEGEND

- AREA NOT IN CONTRACT (NIC)
- EXISTING PARTITION TO BE DEMOLISHED
- EXISTING PARTITION TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED
- EXISTING DOOR TO REMAIN
- ACOUSTIC CEILING SYSTEM TO BE DEMOLISHED, GRID & TILE
- LIGHT FIXTURE TO BE DEMOLISHED
- EXISTING CEILING MOUNTED LIGHT FIXTURE TO BE DEMOLISHED
- LIGHT FIXTURE TO BE DEMOLISHED
- 5' - 0" DIMENSION (FACE TO FACE, TYPICAL)
- EXISTING FLOOR FINISH TO BE DEMOLISHED

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REGISTERED ARCHITECT JUSTIN A. [illegible] 23632 STATE OF TEXAS
05/06/2025

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ENLARGED DEMOLITION PLANS

AD2.1

Autodesk Docs://39-25156-00 Alief ISD restrm renov/39-25156-00 Heflin Elementary_AR_2024.rvt
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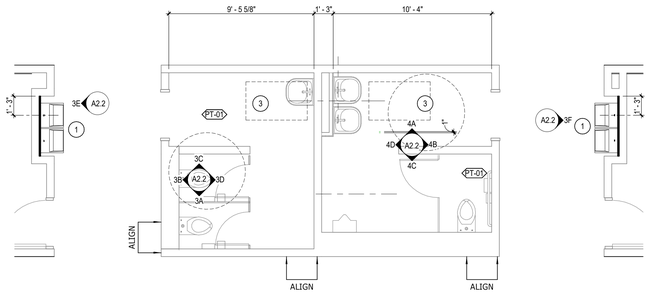
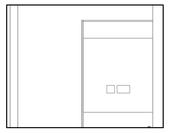
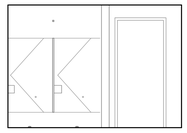


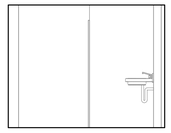
1A A2.2 ENLARGED FLOOR PLAN - BOYS / GIRLS 500
SCALE: 1/4" = 1'-0"



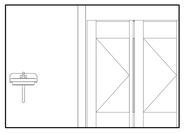
3A A2.2 G500 - GIRLS - SOUTH
SCALE: 1/4" = 1'-0"



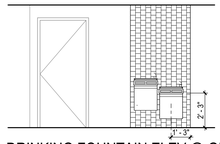
3B A2.2 G500 - GIRLS - WEST
SCALE: 1/4" = 1'-0"



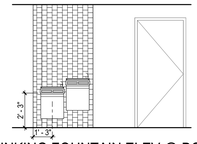
3C A2.2 G500 - GIRLS - NORTH
SCALE: 1/4" = 1'-0"



3D A2.2 G500 - GIRLS - EAST
SCALE: 1/4" = 1'-0"

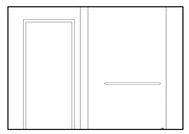


3E A2.2 DRINKING FOUNTAIN ELEV @ GIRLS 500
SCALE: 1/4" = 1'-0"

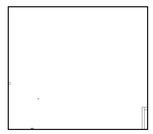


3F A2.2 DRINKING FOUNTAIN ELEV @ BOYS 500
SCALE: 1/4" = 1'-0"

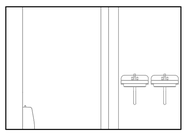
4A A2.2 B500 - BOYS - NORTH
SCALE: 1/4" = 1'-0"



4B A2.2 B500 - BOYS - EAST
SCALE: 1/4" = 1'-0"



4C A2.2 B500 - BOYS - SOUTH
SCALE: 1/4" = 1'-0"



4D A2.2 B500 - BOYS - WEST
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

(#) SHEET NOTES

1 NEW BOTTLE FILLER DRINKING FOUNTAIN. REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.

2 EXISTING SALVAGED RE-INSTALLED BOTTLE FILLER / DRINKING FOUNTAIN, REFER MEP DRAWINGS.

3 GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.

4 GC TO PROVIDE ADA CANE DETECTION APRON ON HIGH SIDE OF DRINKING FOUNTAIN.

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX_X_XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS: I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES, AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

ACT, ACOUSTICAL CEILING TILE

XXX — CEILING TYPE
X-XX — CEILING HEIGHT

INTERIOR FINISH PLAN GENERAL NOTES

A. FINISH SCHEDULE GENERAL NOTES APPLY TO ALL FINISH SCHEDULE SHEETS.
B. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
C. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS.
D. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED.
E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
I. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
J. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
K. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR, UNO.
L. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

AREA NOT IN CONTRACT (NIC)
NO — PLAN KEYED NOTE
CPT VCT — FLOOR FINISH TRANSITION
FLOOR MATERIAL DIRECTION
XX-01 — FINISH MATERIAL TAG
XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

DLR GROUP
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REGISTERED ARCHITECT
JUSTIN A. TAYLOR
23632
STATE OF TEXAS
05/06/2025

Heflin Hounds
Proudly Awesome

HEFLIN E.S. - RESTROOM RENOVATIONS
ALIEF INDEPENDENT SCHOOL DISTRICT
3303 SYNOTT ROAD
HOUSTON, TX 77082

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
1 ADD 1 06-16-25 COH COMMENTS
2 ADD 2 08-05-25 TAS COMMENTS

39-25156-00

ENLARGED FLOOR PLANS & ELEVATIONS

A2.2

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ABBREVIATIONS

A

A	AIR (COMPRESSED)
ABV	ABOVE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT, AIR COMPRESSOR
ACCH	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR, AREA DRAIN
ADJ	ADJUSTABLE
AF	AIR FILTER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHRI	AIR-CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMB	AMBIENT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARCH	ARCHITECT, ARCHITECTURAL
AS	AIR SEPARATOR
ASHP	AIR SOURCE HEAT PUMP
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AVG	AVERAGE
AWS	AMERICAN WELDING SOCIETY
AUX	AUXILIARY

B

B	BOILER
BC	BELOW COUNTER
B/C	BACK OF CURB
BFF	BELOW FINISHED FLOOR
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BM	BENCHMARK
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BP	BACKFLOW PREVENTER
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE

C

C	CELSIUS
CAB	CABINET
CD	CONDENSATE DRAIN LINE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CH	CHILLER
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CHW	CHILLED WATER
CHWP	CHILLED WATER PUMP
CI	CAST IRON
CIRC	CIRCULATING
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESSOR
CONC	CONCRETE, CONCENTRIC
COND	CONDENSER, CONDENSATE
CONN	CONNECTION
CONT	CONTINUOUS,CONTINUATION
CTR	CENTER
CU	COPPER
CV	CONSTANT VOLUME

D

D	DEPTH, DRAIN, DRYER
DB	DRY BULB
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DDMB	DUAL DUCT MIXING BOX
DESIG	DESIGNATION
DTL	DETAIL
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DPR	DAMPER
DW	DISHWASHER
DWG	DRAWING
DX	DIRECT EXPANSION

E

EA	EACH
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
EDB	ENTERING DRY BULB
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EMERG	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETD	EXISTING TO BE DEMOLISHED
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORATOR
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EX	EXPLOSION PROOF
EXT	EXTERNAL
EXTG	EXISTING

F

F	FAHRENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCU	FAN COIL UNIT
FD	FLOOR DRAIN, FIRE DAMPER
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FPTU	FAN POWERED TERMINAL UNIT
FT	FOOT, FEET
FUT	FUTURE

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLV	GLOBE VALVE
GND	GROUND
GPM	GALLONS PER MINUTE
GUH	GAS UNIT HEATER
GV	GATE VALVE

H

HDT	HORIZONTAL DRAW THROUGH
HORIZ	HORIZONTAL
HP	HORSEPOWER, HEAT PUMP
HSTAT	HUMIDISTAT
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HWP	HEATING WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IH	INFRARED HEATER
IN	INCH
INSUL	INSULATION
INT	INTERNAL, INTERIOR

K

KEC	KITCHEN EQUIPMENT CONTRACTOR
KO	KNOCKOUT
KVA	KILOVOLT- AMPS
KW	KILOWATT

L

L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LF	LINEAR FEET
LP	LOW PRESSURE
LRA	LOCKED ROTOR AMPS
LVL	LEVEL
LWB	LEAVING WET BULB
LWCO	LOW WATER CUT OFF
LWT	LEAVING WATER TEMPERATURE

M

MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MI	MALLEABLE IRON
MIN	MINIMUM
MP	MEDIUM PRESSURE
MTD	MOUNTED
MU	MAKE-UP
MVD	MANUAL VOLUME DAMPER
MSAH	MINI-SPLIT AIR HANDLER
MSCU	MINI-SPLIT CONDENSING UNIT
MZ	MULTI-ZONE

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE

O

OA	OUTSIDE AIR
OAF	OUTSIDE AIR FAN
OAHU	OUTSIDE AIR HANDLING UNIT
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OFCU	OUTSIDE AIR FAN COIL UNIT
OPG	OPENING
OS&Y	OUTSIDE SCREW AND YOKE

P

PG	PRESSURE GAUGE
PP	POLYPROPYLENE
PPM	PART PER MILLION
PRI	PRIMARY
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE

Q

QTY	QUANTITY

R

RA	RETURN AIR
RAD	REFRIGERATED AIR DRYER
RAF	RETURN AIR FAN
RAG	RETURN AIR GRILLE
RAT	RETURN AIR TEMPERATURE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE	REFERENCE, REFER
RED	REDUCER
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION, REVISE
RH	RELATIVE HUMIDITY
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RLA	RUNNING LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SAG	SUPPLY AIR GRILLE
SAR	SUPPLY AIR REGISTER
SC	STEAM CONDENSATE
SCHED	SCHEDULED
SEC	SECONDARY
SECT	SECTION
SENS	SENSIBLE
SF	SQUARE FEET
SFCS	SPRINKLER FLOOR CONTROL STATION
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SM	SHEETMETAL
SP	STATIC PRESSURE, SUMP PUMP
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	STAINLESS STEEL
SSSC	SOLID STATE SPEED CONTROL
STD	STANDARD
STL	STEEL
STM	STEAM
STR	STRAINER
SURF	SURFACE
SUSP	SUSPEND
SV	SANITARY VENT
SW	SOFT WATER
SZ	SINGLE ZONE

T

TC	TEMPERATURE CONTROL
TDH	TOTAL DYNAMIC HEAD
TF	TRANSFER FAN
TH BLK	THRUST BLOCK
THERM	THERMOMETER
TMV	THERMOSTATIC MIXING VALVE
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TW	TEMPERED HOT WATER
TYP	TYPICAL

U

UCD	UNDER CUT DOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC
UNO	UNLESS NOTED OTHERWISE
U/F	UNDERFLOOR
U/S	UNDERSLAB

V

V	VOLT
VA	VOLT- AMPERE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VB	VALVE BOX, VACUUM BREAKER
VD	VOLUME DAMPER
VDT	VERTICAL DRAW THROUGH
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VB	VALVE IN BOX
VOV	VALVE ON VERTICAL
VP	VACUUM PUMP
VRF	VARIABLE REFRIGERANT FLOW
VVR	VARIABLE AIR VOLUME REHEAT

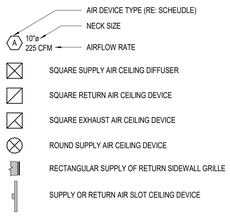
W

W	WATT, WIDTH
W/	WITH
W/O	WITHOUT
WB	WET BULB
WM	WATER METER
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WSHP	WATER SOURCE HEAT PUMP
WWF	WELDED WIRE FABRIC

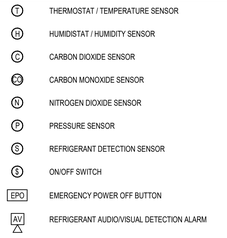
Z

Z	ZONE

AIR DEVICE TYPES



WALL MOUNTED SENSOR AND DEVICE TYPES



CONTROLS SCHEMATIC SYMBOLS LEGEND

AI	ANALOG INPUT	FS	FLOW SWITCH
AO	ANALOG OUTPUT	DAT	DISCHARGE AIR TEMPERATURE SENSOR
DI/BI	DIGITAL/BINARY INPUT	S	WALL SENSOR
DO/BO	DIGITAL/BINARY OUTPUT	T	THERMOSTAT
MD	ON-OFF MOTORIZED DAMPER	CO2	CARBON DIOXIDE SENSOR
MMD	MODULATING TYPE MOTORIZED DAMPER	SP	SET POINT
AFMS	AIR FLOW MEASURING STATION	S/A	SUPPLY AIR
MCV	CONTROL VALVE MODULATING TYPE	R/A	RETURN AIR
VFD	VARIABLE FREQUENCY DRIVE	O/A	OUTSIDE AIR
CSR	CURRENT SENSING RELAY	HC	HEATING COIL
FRZ	FREEZESTAT	CC	COOLING COIL
HSL	HIGH STATIC LIMIT	DX	DIRECT EXPANSION COOLING COIL
SPT	STATIC PRESSURE TRANSMITTER	PICCV	PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE
DPT	DIFFERENTIAL PRESSURE TRANSDUCER	AFC	AIRFLOW CROSS
FM	FLOW METER	DPS	DIFFERENTIAL PRESSURE SWITCH

PIPING TYPES

CD	CONDENSATE DRAIN LINE	REF	REFRIGERANT PIPING SIZED BY MFR.
CHS	CHILLED WATER SUPPLY	HPS	HIGH PRESSURE STEAM SUPPLY
CHR	CHILLED WATER RETURN	HPR	HIGH PRESSURE CONDENSATE RETURN
HWS	HOT WATER SUPPLY	LPS	LOW PRESSURE STEAM SUPPLY
HWR	HOT WATER RETURN	LPR	LOW PRESSURE CONDENSATE RETURN
CWS	CONDENSER WATER SUPPLY	PCR	PUMPED CONDENSATE RETURN
CWR	CONDENSER WATER RETURN		

DESIGN CRITERIA

LOCATION:
3303 SYNOTT ROAD
HOUSTON, TX 77082

DESIGN CONDITIONS:

HEATING DB:	31.4 °F (ASHRAE 99.6%)
COOLING DB / WB:	97.6 °F / 76.6 °F (ASHRAE 0.4%)
DEHUMIDIFICATION DP / DB:	78.3 °F / 82.9 °F (ASHRAE 0.4%)

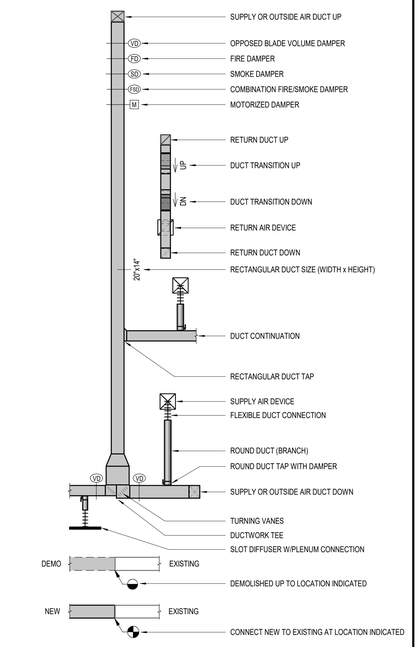
SPACE INDOOR DESIGN TEMPERATURE:

HEATING DB:	70 °F
COOLING DB:	75 °F
RELATIVE HUMIDITY	55%

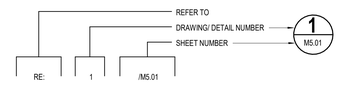
BUILDING CODES & STANDARDS

APPLICABLE CODES:
2021 INTERNATIONAL BUILDING CODE (WITH HOUSTON AMENDMENTS)
2021 INTERNATIONAL FIRE CODE (WITH HOUSTON AMENDMENTS)
2021 UNIFORM MECHANICAL CODE (WITH HOUSTON AMENDMENTS)
2021 UNIFORM PLUMBING CODE (WITH HOUSTON AMENDMENTS)
2021 INTERNATIONAL ENERGY CONSERVATION CODE (WITH HOUSTON AMENDMENTS)
2023 NATIONAL ELECTRICAL CODE (STATE MANDATED)

DUCTWORK



DRAWING/DETAIL REFERENCE KEY



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DBR Project # 250076.000
BM RM/TD/LB/MS TN/JAL -

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ALIEF INDEPENDENT SCHOOL DISTRICT
3303 SYNOTT ROAD
HOUSTON, TX 77082

ISSUE FOR BID & PERMIT
10-31-25

REVISIONS

2	CD 11-26	ISSUE FOR BID & PERMIT
3	04-09-26	OWNER VE

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MECHANICAL SYMBOL LEGEND

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DEMO/RENO MECHANICAL GENERAL NOTES

A. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR SCOPE OF DEMOLITION WORK, EXACT LOCATIONS, CONDITIONS, PHASING, CONSTRUCTION SCHEDULING, AND ANY ADDITIONAL DEMOLITION NOTES, REQUIREMENTS, ETC.

B. MECHANICAL DEMOLITION DRAWINGS ARE GENERALLY DIAGRAMMATIC AND IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT ALL MECHANICAL SYSTEMS SHALL REMAIN UNLESS NOTED TO BE REMOVED OR DEMOLISHED. VERIFY EXACT LOCATIONS AND CONDITIONS AND COORDINATE WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO REMOVING ANY EXISTING ITEMS. DO NOT ABANDON ANY ITEMS IN PLACE.

C. EQUIPMENT, DUCTWORK, PIPING, ETC. INDICATED AS EXISTING (E) SHALL REMAIN AND BE RE-USED IN EXISTING LOCATIONS. IF EXISTING ITEMS CONFLICT WITH NEW CONSTRUCTION, CONTRACTOR SHALL RELOCATE, REWORK, REROUTE, RECONNECT, AND REINSTALL COMPLETELY AS REQUIRED AS IF NEW AT NO ADDITIONAL COST. COORDINATE WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, ARCHITECT, ETC. PRIOR TO RELOCATION. REFER TO APPLICABLE NOTES FOR NEW ITEMS.

D. EQUIPMENT, DUCTWORK, PIPING ETC. INDICATED AS EXISTING TO BE DEMOLISHED (D) SHALL BE REMOVED IN THEIR ENTIRETY. ALL APPURTENANCES, RELATED COMPONENTS, INCLUDING ALL DUCTWORK, PIPING, SUPPORTS, HANGERS, CONTROLS, ETC. ASSOCIATED WITH EACH ITEM SHALL BE REMOVED UNLESS NOTED OTHERWISE. CAP ALL DUCTWORK AND PIPING AS REQUIRED SERVING EACH ITEM AT BUILDING MAINS. VERIFY EXACT LOCATIONS AND CONDITIONS AND COORDINATE WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO REMOVING ANY EXISTING ITEMS. DO NOT ABANDON ANY ITEMS IN PLACE.

E. WHERE CONSTRUCTION, EXISTING DUCTWORK, MECHANICAL / PLUMBING / FIRE SPRINKLER PIPING, ELECTRICAL CONDUIT, CABLING, ETC. WHICH MUST REMAIN AS PART OF AN ACTIVE SYSTEM CONFLICTS WITH NEW CONSTRUCTION, CONTRACTOR SHALL RELOCATE, REWORK, REROUTE, RECONNECT, AND REINSTALL COMPLETELY AS REQUIRED AS IF NEW AT NO ADDITIONAL COST. COORDINATE WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, ARCHITECT, ETC. PRIOR TO RELOCATION. REFER TO APPLICABLE NOTES FOR NEW ITEMS.

F. CONTRACTOR SHALL COORDINATE WITH EACH TRADE CONTRACTOR FOR REMOVAL OF EXISTING ELECTRICAL AND PLUMBING SERVICES INCLUDING ALL CONDUIT, WIRING, PIPING, INSULATION, APPURTENANCES, RELATED COMPONENTS, ETC. ASSOCIATED WITH REMOVAL OF EXISTING MECHANICAL EQUIPMENT. VERIFY EXACT LOCATIONS AND CONDITIONS AND COORDINATE WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO REMOVING ANY EXISTING ITEMS. DO NOT ABANDON ANY ITEMS IN PLACE.

G. THESE DRAWINGS WERE PREPARED FROM THE BEST INFORMATION AVAILABLE, ORIGINAL DRAWINGS, FIELD OBSERVATIONS, ETC., BUT MAY NOT INDICATE THE EXACT LOCATION OF ALL EXISTING MECHANICAL COMPONENTS. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE EXISTING CONDITIONS SURROUNDING THE INSTALLATION OF THEIR WORK PRIOR TO PROCEEDING WITH THE INSTALLATION. MODIFICATIONS REQUIRED DUE TO EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER / OWNER FOR REVIEW BY WAY OF SHOP DRAWINGS OR SKETCHES DETAILING THE EXISTING CONDITIONS AND THE PROPOSED REVISION.

H. CONTRACTOR SHALL BE RESPONSIBLE TO VISIT THE JOBSITE, COMPLETELY REVIEW CONTRACT DOCUMENTS, AND FIELD VERIFY EXTENT OF WORK AND EXACT LOCATIONS AND CONDITIONS OF ALL NEW AND EXISTING CONSTRUCTION, ELEVATIONS, SERVICE POINTS, ETC. AS REQUIRED FOR A COMPLETE AND CORRECTLY OPERATING SYSTEM. CONTACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, AND REPORT IN WRITING ANY CONFLICTS, PROBLEMS, OR ANY CONDITION THAT MAY ADVERSELY AFFECT THE PROPER EXECUTION OF THE WORK THAT IS NOT INDICATED ON THE DRAWINGS. THIS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR MAKING ANY CORRECTIONS OR ALTERATIONS DEEMED NECESSARY TO COMPLETE THE WORK AND SHALL INCLUDE ALL ASSOCIATED COSTS IN THEIR BID WITH NO ADDITIONAL EXPENSE.

I. CONTRACTOR SHALL COORDINATE ALL CUTTING AND PATCHING OF EXISTING WALLS, CEILINGS, ROOF AND FLOOR REQUIRED FOR THEIR WORK WITH GENERAL CONTRACTOR, STRUCTURAL ENGINEER, AND OWNER'S REPRESENTATIVE. ALL PENETRATIONS SHALL BE SEALED AND RESTORED TO THE ORIGINAL CONDITIONS, STRUCTURAL PROPERTIES, AND FINISHED IN SAME MATERIALS AND MANNER AS ADJACENT AREAS. ALL ROOF PENETRATIONS, ROOF PIPE SUPPORTS, FLASHINGS, ETC. SHALL BE MADE WATERTIGHT AND AS RECOMMENDED BY THE ROOF MANUFACTURER. ALL EXISTING PENETRATIONS WHICH ARE NOT TO BE REUSED SHALL BE PROPERLY SEALED OFF TO MAINTAIN THE STRUCTURAL, WATERPROOF, AND FIREPROOF INTEGRITY OF THE WALL, FLOOR, OR ROOF SYSTEM PENETRATED.

J. COORDINATE ALL RENOVATIONS / REMODEL / DEMOLITION WORK WITH THE OWNER'S REPRESENTATIVE, BUILDING ENGINEER / MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT, FIXTURES, OR SYSTEMS THAT WILL AFFECT OTHER SYSTEM WITHIN THE AREA OF CONSTRUCTION, OR OTHER AREAS OF THE BUILDING. CONTRACTOR SHALL NOTE THAT THE BUILDING IS OCCUPIED, AND WILL REMAIN SO DURING CONSTRUCTION; AND, THEREFORE, UTILITIES / BUILDING SYSTEMS MUST REMAIN IN OPERATION. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE AND BUILDING ENGINEER / MAINTENANCE PERSONNEL. PROVIDE TEMPORARY CONNECTIONS OF UTILITIES AND AIR CONDITIONING AS NECESSARY TO FACILITATE THE PHASING OF CONSTRUCTION.

K. ALL WORK SHALL BE SCHEDULED AND PERFORMED IN STRICT COORDINATION WITH CONSTRUCTION PHASING AND WITH OWNERS' SCHEDULES, OCCUPANCIES, ETC. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK, PIPING, ETC. AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE.

L. PRIOR TO THE REMOVAL OF ANY MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT, FIXTURES, OR SYSTEMS, THE CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEM AND CONFIRM THAT THE ITEMS BEING REMOVED DO NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE CONTRACT LIMITS). WHEN RENOVATION / REMODEL / DEMOLITION WORK IS PERFORMED, THE CONTRACTOR SHALL EXERCISE CARE IN PROTECTING EXISTING ITEMS TO REMAIN AND EXISTING ITEMS TO BE REMOVED AND RELOCATED. PROTECT ALL EXISTING BUILDING COMPONENTS, WALLS, FLOORS, FINISHES, FURNISHINGS, ADJACENT EQUIPMENT, LIGHTING, ETC. ANY ITEMS DAMAGED OR WHERE FINISHES HAVE BEEN MARRED, SHALL BE REPAIRED AND REFINISHED TO ORIGINAL CONDITION AT NO COST TO THE OWNER. ALL ITEMS SOILED IN THE PROGRESS OF THE WORK SHALL BE CLEANED TO THEIR PRE- EXISTING CONDITIONS.

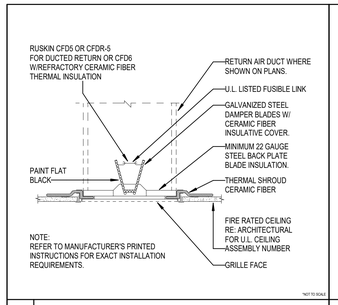
M. ALL EXISTING EQUIPMENT REMOVED SHALL BE PROTECTED FROM DAMAGE IN SO FAR AS PRACTICAL. THESE ITEMS SHALL BE STORED ON SITE FOR A MINIMUM OF TWO (2) WEEKS UNLESS INDICTED OTHERWISE BY THE OWNER'S REPRESENTATIVE TO ALLOW INSPECTION BY THE OWNER. ALL ITEMS RETAINED BY THE OWNER SHALL BE TAGGED AND STORED ON SITE UNTIL DIRECTED OTHERWISE BY OWNER. ALL ITEMS NOT RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND DISPOSED OF PROPERLY.

N. REWORK AND REPAIR ALL DUCTWORK AND PIPING INSULATION DAMAGED OR REMOVED DURING RENOVATION / REMODEL / DEMOLITION AS REQUIRED TO MATCH EXISTING.

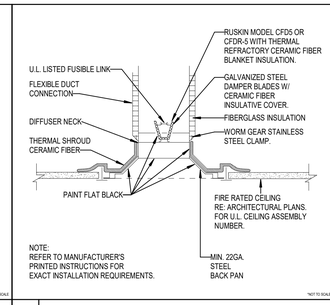
O. EQUIPMENT INGRESS AND EGRESS ROUTES FOR THE RENOVATION WORK SHALL BE COORDINATED WITH THE OWNER. COORDINATE TIMES, DATES, AND DURATIONS WITH OWNER A MINIMUM OF 2 WEEKS IN ADVANCE TO ENSURE THERE ARE NO CONFLICTS IN USAGE OF EQUIPMENT/SPACES.

P. ALL EXISTING EQUIPMENT THAT INCLUDES A REFRIGERATION CIRCUIT THAT IS TO BE DEMOLISHED OR RELOCATED SHALL HAVE THE REFRIGERANT CHARGE RECOVERED PRIOR TO DEMOLITION OR RELOCATION. REFRIGERANT RECOVERY SHALL COMPLY WITH EPA, STATE, AND LOCAL JURISDICTION REQUIREMENTS. RECOVERED REFRIGERANTS SHALL NOT BE USED IN ANY SYSTEM, NEW OR EXISTING, UNLESS THE REFRIGERANT HAS BEEN RECLAIMED AND FOUND TO MEET THE PURITY REQUIREMENTS OF AHRI 700.

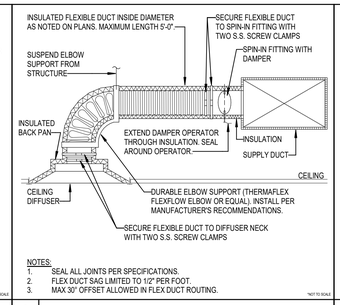
Q. EXISTING EQUIPMENT BEING RELOCATED SHALL BE VERIFIED TO BE IN PROPER OPERATING CONDITION PRIOR TO EQUIPMENT RELOCATION. VERIFICATION SHALL BE PERFORMED BY EQUIPMENT MANUFACTURER'S AUTHORIZED SERVICE REPRESENTATIVE. IF EXISTING EQUIPMENT IS FOUND TO BE DEFICIENT, THE SERVICE REPRESENTATIVE SHALL NOTIFY THE ENGINEER AND OWNER AND PROVIDE RECOMMENDATIONS TO RESTORE EQUIPMENT TO PROPER OPERATING CONDITION.



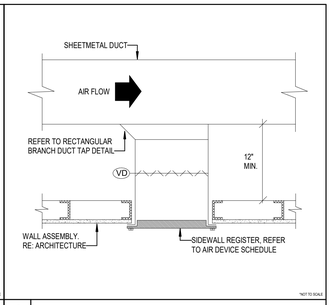
4 FIRE RATED RETURN GRILLE M1003



3 FIRE RATED SUPPLY DAMPER M1004



2 CEILING DIFFUSER CONNECTION M1004



1 SIDEWALL SUPPLY REGISTER M1010

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MECHANICAL GENERAL NOTES & DETAILS

M0.11

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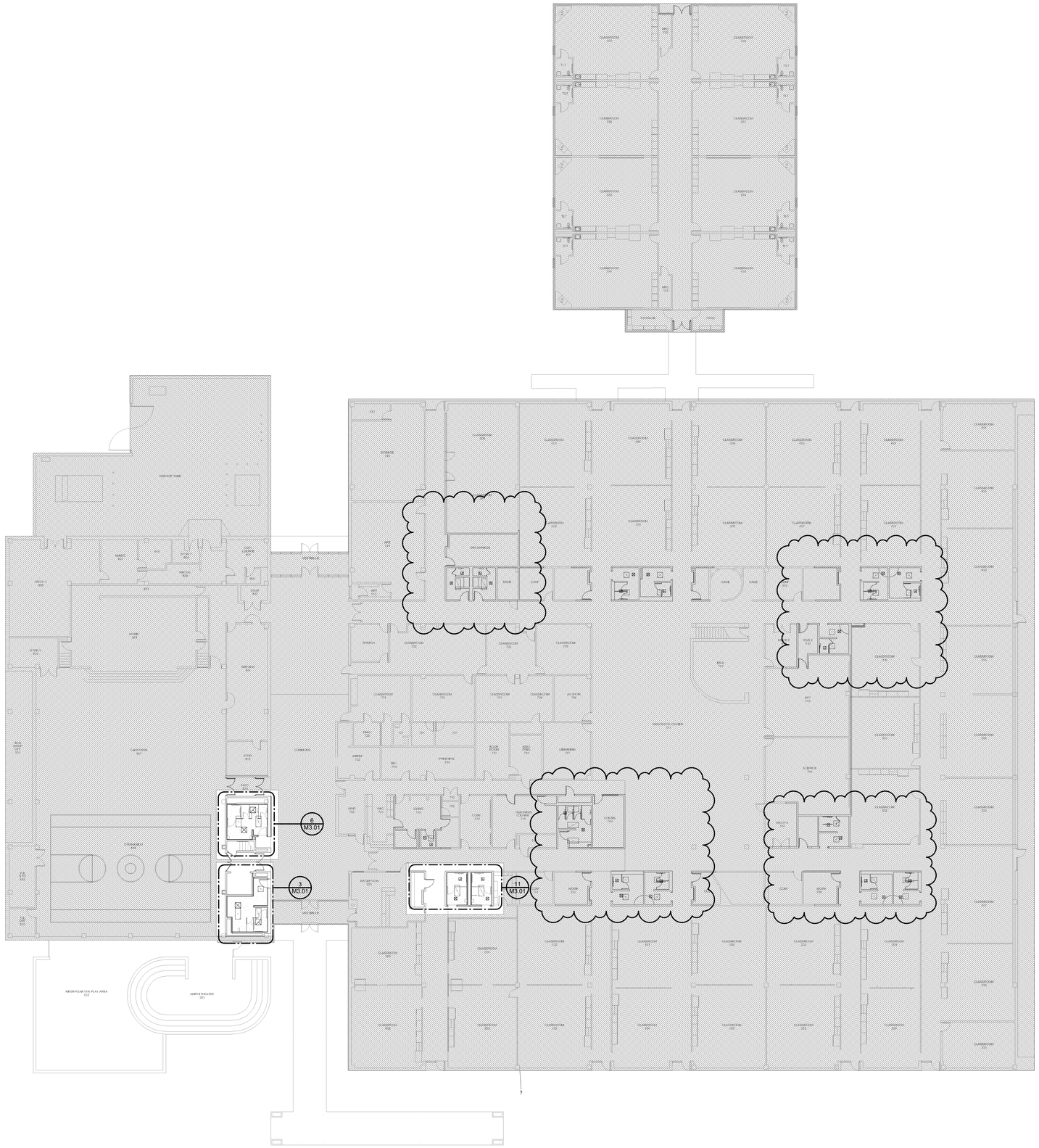

N
TRUE

1 **LEVEL 01 - MECHANICAL PLAN**
1/16" = 1'-0"

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LEVEL 01 - MECHANICAL PLAN

M2.11

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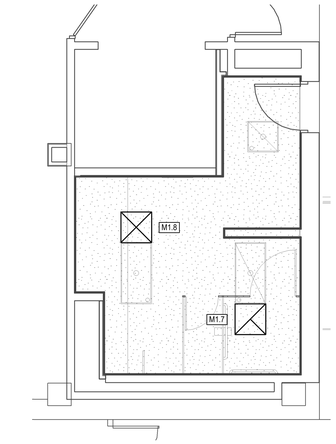

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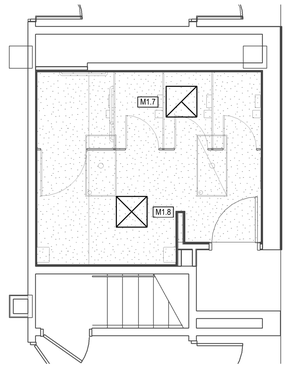
3 **LEVEL 01 - MECHANICAL PLAN - RR B 800**

1/4" = 1'-0"



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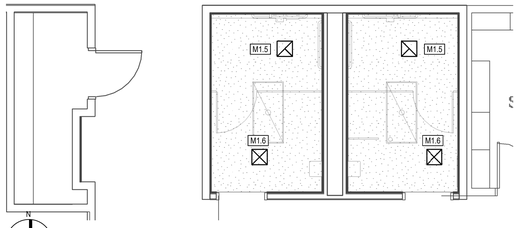
6 **LEVEL 01 - MECHANICAL PLAN - RR G 800**

1/4" = 1'-0"



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11 **LEVEL 01 - MECHANICAL PLAN - RR G & B 600**

1/4" = 1'-0"

MECHANICAL KEYED NOTES

M1.5 MECHANICAL CONTRACTOR SHALL REPLACE EXISTING EXHAUST AIR GRILLE IN RESTROOM AREA TO NEW LOCATION SHOWN. PROVIDE NECESSARY TRANSITION TO CONNECT NEW 1'X1' GRILLE TO EXISTING DUCTWORK. SEAL AIR TIGHT. COORDINATE GRILLE LOCATION WITH LIGHTING. BASIS OF DESIGN: MODEL TITUS PAR-FR. COORDINATE WITH ARCHITECT FOR FINISH/COLOR.

M1.6 MECHANICAL CONTRACTOR SHALL REPLACE EXISTING SUPPLY AIR DIFFUSER IN RESTROOM AREA TO NEW LOCATION SHOWN. PROVIDE NECESSARY TRANSITION TO CONNECT NEW 1'X1' DIFFUSER TO EXISTING DUCTWORK. SEAL AIR TIGHT. COORDINATE GRILLE LOCATION WITH LIGHTING. BASIS OF DESIGN: MODEL TITUS TMSA-FR. COORDINATE WITH ARCHITECT FOR FINISH/COLOR.

M1.7 MECHANICAL CONTRACTOR SHALL REPLACE EXISTING EXHAUST AIR GRILLE IN RESTROOM AREA TO NEW LOCATION SHOWN. PROVIDE NECESSARY TRANSITION TO CONNECT NEW 2'X2' GRILLE TO EXISTING DUCTWORK. SEAL AIR TIGHT. COORDINATE GRILLE LOCATION WITH LIGHTING. BASIS OF DESIGN: MODEL TITUS PAR-FR. COORDINATE WITH ARCHITECT FOR FINISH/COLOR.

M1.8 MECHANICAL CONTRACTOR SHALL REPLACE EXISTING SUPPLY AIR DIFFUSER IN RESTROOM AREA TO NEW LOCATION SHOWN. PROVIDE NECESSARY TRANSITION TO CONNECT NEW 2'X2' DIFFUSER TO EXISTING DUCTWORK. SEAL AIR TIGHT. COORDINATE GRILLE LOCATION WITH LIGHTING. BASIS OF DESIGN: MODEL TITUS TMSA-FR. COORDINATE WITH ARCHITECT FOR FINISH/COLOR.

TN PN

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LEVEL 01 - MECHANICAL PLAN - ENLARGED

M3.01

ABBREVIATIONS

AC	ALTERNATING CURRENT
AF	AMPERE FUSE; AMPERE FRAME
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPT CAPACITY
AL	ALUMINUM
AM	AMMETER
AMP	AMPLIFIER
ANN	ANNUNCIATOR
ASC	AMPERES SHORT CIRCUIT
AT	AMPERE TRIP RATING
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
BKR	BREAKER
BLDG.	BUILDING
C	CONDUIT, CELSIUS
CKT	CIRCUIT
CLG.	CEILING
CONT.	CONTINUOUS,CONTINUATION
CONTR	CONTROLLER, CONTRACTOR
CT	CURRENT TRANSFORMER/COOLING TOWER
CU	COPPER
DAS	DISTRIBUTED ANTENNA SYSTEM
DC	DIRECT CURRENT
DISC	DISCONNECT
DP	DISTRIBUTION PANEL
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DWG	DRAWING
ELEV.	ELEVATOR
EPO	EMERGENCY POWER OFF
ERRC	EMERGENCY RESPONDER RADIO COVERAGE SYSTEM
FA	FIRE ALARM
FF	FURNITURE FIRE FEED
FLA	FULL LOAD AMPS
FTL	FEED-THRU LUGS
GA	GAUGE
GEN	GENERATOR
GND	GROUND
GTD	GENERATOR TRANSFER DEVICE
IG	ISOLATED GROUND
LF	LINEAR FEET
LTG	LIGHTING
LV	LOW VOLTAGE
LVL	LEVEL
MAX.	MAXIMUM
MC	METAL CLAD CABLE
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCCB	MOLDED CASE CIRCUIT BREAKER
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MIC	MICROPHONE
MIN.	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MSB	MAIN SWITCHBOARD
N3R	NEMA 3R
N4X	NEMA 4X
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NFS	NON-FUSED SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE
PH	PHASE
POS	POINT OF SALE
QTY	QUANTITY
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
RE	REFERENCE, REFER
SF	SQUARE FOOT
SIM	SIMILAR
SKVA	STARTING KILOVOLT-AMPS
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE-POLE, DOUBLE-THROW
SPST	SINGLE-POLE, SINGLE-THROW
SPEC	SPECIFICATION
SQFT	SQUARE FOOT
ST	SHUNT TRIP
SWB	SWITCHBOARD
TL	TWIST-LOCK
TOC	TOP OF CURB
TOS	TOP OF STEEL
TR	TAMPER RESISTANT RECEPTACLE
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SYSTEM
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF
WT	WATERTIGHT, WEIGHT
W/SF	WATTS PER SQUARE FOOT
XFMR	TRANSFORMER

MANY ABBREVIATIONS NOT LISTED MAY BE FOUND IN THE NATIONAL ELECTRIC CODE, OR IN THE INTERNATIONAL AND UNIFORM CODES

PHASING

(E)	EXISTING (TO REMAIN)
(D)	SHALL BE DEMOLISHED
(N)	PROVIDE NEW
(R)	RELOCATED ELEMENT

BUILDING CODES & STANDARDS

APPLICABLE CODES:
2021 INTERNATIONAL BUILDING CODE (WITH HOUSTON AMENDMENTS)
2021 INTERNATIONAL FIRE CODE (WITH HOUSTON AMENDMENTS)
2021 UNIFORM MECHANICAL CODE (WITH HOUSTON AMENDMENTS)
2021 UNIFORM PLUMBING CODE (WITH HOUSTON AMENDMENTS)
2021 INTERNATIONAL ENERGY CONSERVATION CODE (WITH HOUSTON AMENDMENTS)
2023 NATIONAL ELECTRICAL CODE (STATE MANDATED)

ELECTRICAL SYMBOLS

MOTORS AND CONTROLS

- MOTOR RATED SWITCH WITH THERMAL OVERLOADS
- (5) SINGLE OR THREE PHASE MOTOR NUMBER INDICATES HORSE POWER
- ELECTRIC DUCT HEATER
- DISCONNECT (SAFETY) SWITCH "200/3/150" DENOTES AMPERES/POLE/FUSE, "NF" DENOTES NON-FUSED "N3R" DENOTES NEMA 3R
- [B] ENCLOSED CIRCUIT BREAKER- "200/3/150" DENOTES AMPERES/POLE/TRIP.
- MOTOR STARTER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER. "30/3/15/80" DENOTES AMPERES/POLES/FUSE/ STARTER SIZE. "NF" DENOTES NON-FUSED. FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- VFD VARIABLE FREQUENCY DRIVE PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- EPO EMERGENCY POWER OFF BUTTON.

RECEPTACLES AND OUTLETS

ALL RECEPTACLES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS.

ABBREVIATIONS APPLICABLE TO RECEPTACLES:
"GFCI" GROUND FAULT INTERRUPTER
"WP" WEATHERPROOF
"IG" ISOLATED GROUND
"TIR" TAMPER RESISTANT
"USB" RECEPTACLE WITH USB CHARGING PORTS
"AC" ABOVE COUNTER MOUNTING
"UC" UNDER COUNTER MOUNTING
"H" HORIZONTALLY ORIENTED RECEPTACLE

- SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.
- DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V. SHADED INDICATES SPLIT-WIRED
- FOURPLEX (QUADRUPLEX) RECEPTACLE
- DUPLEX RECEPTACLE (PEDESTAL MOUNTED)
- CONTROLLED WALL RECEPTACLE. DUPLEX: SPLIT-WIRED QUAD: SEPARATELY WIRED UNDER A COMMON COVERPLATE.
- POWER DEVICE RED IN COLOR, ON EMERGENCY POWER CIRCUIT
- CEILING RECEPTACLE/QUAD, EMERGENCY POWER SYMBOL MAY APPLY
- SPECIAL RECEPTACLE, NEMA CONFIGURATION PER PLAN OR EQUIPMENT
- TV TV ROUGH-IN: 3-GANG RECESSED TV BOX, CONTAINING 1 DUPLEX RECEPTACLE, 1 GANG FOR AV, 1 GANG FOR DATA
- FLOOR BOX OR POKE THRU. POKE-THRU'S WHERE IN SUSPENDED SLABS, RECESSED IN FOUNDATION WHERE SLAB ON GRADE
- FLUSH ELECTRICAL FLOOR OUTLET. REFER TO FLOOR BOX SCHEDULE, FIRE RATED POKE-THROUGH SCHEDULE AND KEYED NOTES.
- DC DROP CORD WITH SIMPLEX RECEPTACLE UNLESS OTHERWISE NOTED
- CR CORD REEL WITH DUPLEX RECEPTACLE UNLESS OTHERWISE NOTED
- J J JUNCTION BOX
  "MD" INDICATES POWER CONNECTION TO SERVE MOTOR DAMPER
  "HD" INDICATES POWER CONNECTION TO SERVE HAND DRYER
  "FV" INDICATES POWER CONNECTION TO SERVE FLUSH VALVES
- P PULL BOX (OVER 4" SQUARE)
- BELL/BUZZER/CHIME
- PUSH BUTTON/DOOR BELL/START-STOP
- PP POWER POLE
- POINT OF DIRECT CONNECTION TO EQUIPMENT
- C (2) CLOCK RECEPTACLE SHALL BE MOUNTED 12" BELOW FINISHED CEILING. (2) DENOTES DOUBLE SIDED CLOCK.

LIGHTING

LETTER(S) DENOTE TYPE- SEE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

2' X 4' 2' X 2' 1' X 4' 1' X 2' 1' X 1'

- STRIP LIGHTING FIXTURES.
- ROUND DOWNLIGHT FIXTURE.
- SQUARE DOWNLIGHT FIXTURE.
- WALL MOUNTED LIGHTING FIXTURE.
- TRACK LIGHTING FIXTURE. MOUNTED AS SHOWN ON LIGHTING FIXTURE SCHEDULE.
- CEILING MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- WALL MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- EMERGENCY WALL MOUNTED LIGHTING FIXTURE. BATTERY OPERATED UNLESS NOTED OTHERWISE.
- SITE LIGHTING FIXTURE.

HATCHING PATTERNS BELOW SHALL APPLY TO ALL LIGHTING FIXTURE SYMBOLS.

- NL EMERGENCY LIGHT FIXTURE WITH BATTERY PACK. PROVIDE WITH UNSWITCHED HOT FOR LOSS OF VOLTAGE AND CHARGING (SAME CIRCUIT AS NORMAL POWER LIGHTING). FIXTURES SHALL BE WIRED IN A MANNER AS TO ALLOW SWITCHING OF FIXTURES WITHOUT DISCHARGING THE EMERGENCY BATTERY. BATTERY PACK IS TO ONLY OPERATE IN THE EVENT OF A POWER OUTAGE.
  "NL" NIGHT LIGHT ON UNSWITCHED 24HR OPERATION
- EM CIRCUIT LIGHT FIXTURE ON LIFE SAFETY BRANCH CIRCUIT. GENERATOR TRANSFER DEVICES REQUIRED (UL1008 OR UL924) PROVIDE UNSWITCHED HOT, NEUTRAL AND GROUND FOR ALL LIFE SAFETY LIGHTING ORIGINATING FROM THE LIFE SAFETY CIRCUIT SHOWN.
- CRITICAL OPERATIONS LIGHTING ORIGINATING FROM THE CRITICAL CIRCUIT INDICATED. HATCHED AS INDICATED. HATCHING TYPICAL FOR ALL CRITICAL BRANCH LIGHT FIXTURES

RACEWAYS AND WIRING

- CAP AND STAKE
- CONDUIT CONCEALED IN WALL OR CEILING
- UNDERGROUND, UNDERSLAB, CONCEALED ROUTING
- OHE OVERHEAD ELECTRIC PRIMARY UTILITY POWER LINE
- CONDUIT UP/DOWN
- HASH MARKS INDICATE NUMBER OF CONDUCTORS. LEFT TO RIGHT: PHASE/NEUTRAL/GROUND/ISOLATED GROUND. NO HASH MARKS INDICATES EMPTY CONDUIT, 1" MINIMUM, UNLESS NOTED OTHERWISE.
- 1LA-2,4,6 HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED.
- (ON)1LA-6 PARTIAL/SHARED CIRCUIT HOMERUN TO PANEL.
- TELECOMMUNICATIONS CABLE TRAY SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.

ELECTRICAL EQUIPMENT

- DISTRIBUTION PANEL
- MSB SWITCHBOARD, MAIN DISTRIBUTION PANEL OR MOTOR CONTROL CENTER
- PANELBOARD (FLUSH/SURFACE MOUNT)
- FLOOR MOUNTED DRY-TYPE TRANSFORMER
- SUSPENDED OR WALL MOUNTED TRANSFORMER
- ATS AUTOMATIC TRANSFER SWITCH
- FIRE RATED PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4' X 8' X 3/4" UNLESS NOTED OTHERWISE

COMMUNICATIONS

DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 18" ABOVE FINISHED FLOOR (AFF)

- DATA/COMM/AV ROUGH-IN. CONDUIT TO PLENUM AND BOX ONLY
- HS DS SCHOOL INTERCOMMUNICATION SYSTEM HANDSET.

DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 42" AFF

- VC VOLUME CONTROL - WALL MOUNTED
- CB INTERCOM/PA SYSTEM CALL-IN OR CALL-BACK DEVICE

DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 120" AFF OR 12" BELOW CEILING, WHICHEVER IS LOWER

- S L INTERCOM/PA SPEAKER "L" LOCAL SOUND REINFORCEMENT

CEILING MOUNTED DEVICES:

- S VC INTERCOM/PA SPEAKER "VC" INDICATES VOLUME CONTROL ON SPEAKER.

REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

ONE-LINE DIAGRAM

- TRANSFORMER, TYPE AND RATINGS AS NOTED
- 800A/3P SWITCH, RATING AS SHOWN
- 400A FUSE, RATING AS SHOWN
- ST SHUNT TRIP
- GFP GROUND FAULT PROTECTION
- K KIRK-KEY INTERLOCK
- M DIGITAL METER OR SUB-METER INTEGRATED INTO EQUIPMENT
- 1200/5 CURRENT TRANSFORMER, RATED AS SHOWN
- GROUND CONNECTION
- AUTOMATIC TRANSFER SWITCH
- BUS DUCT PLUG
- M ELECTRICAL UTILITY REVENUE METER
- SPD SURGE PROTECTION DEVICE
- GANN GENERATOR ANNUNCIATOR PANEL
- CIRCUIT BREAKER
- DRAW-OUT CIRCUIT BREAKER
- NEW EQUIPMENT/WIRING
- DEMOLITION EQUIPMENT/WIRING
- EXISTING EQUIPMENT/WIRING
- UNDERGROUND WIRING

DAYLIGHT ZONES

DAYLIGHT ZONE/PRIMARY SECONDARY DAYLIGHT ZONE

DAYLIGHT ZONES SHALL BE INCLUSIVE OF THE FIXTURES WITHIN THE SHADED REGION, AND SHALL BE DIMMED USING ON-BOARD OR EXTERNAL CONTROL IN ACCORDANCE WITH IECC 2021. IECC 2018 OR 2015 MAY BE REFERENCED ONLY WHERE ADOPTED BY LOCAL AHJ.

GENERAL NOTES:

A. NOT ALL SYMBOLS SHOWN ON THIS SYMBOL LIST ARE USED IN THE CONTRACT DOCUMENTS.

MISCELLANEOUS

- F SHADED SYMBOLS INDICATE EXISTING DEVICES TO REMAIN, UNLESS OTHERWISE NOTED.
- INDICATES WALL-MOUNTED WHEN ATTACHED TO ANY SYMBOL
- 1 DRAWING NOTE REFERENCE
- SOS AREA OF RESCUE ASSISTANCE

FIRE ALARM

- W WATER FLOW SWITCH
- SP SUPERVISORY SWITCH
- S SMOKE DETECTOR - MULTI CRITERIA DETECTOR
- S # SMOKE DETECTOR - "SB" INDICATES IN INTEGRAL SOUNDER BASE "D" INDICATES DUCT TYPE "R" INDICATES 120 VOLT RESIDENTIAL TYPE
- H HEAT DETECTOR
- S BT BEAM DETECTOR TRANSMITTER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
- S BR BEAM DETECTOR RECEIVER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
- S FIRE ALARM SPEAKER STROBE / CEILING MOUNTED
- S FIRE ALARM SPEAKER / CEILING MOUNT.
- DH MAGNETIC DOOR HOLDER
- R AUXILIARY CONTROL RELAY
- FH FIRE FIGHTER HANDSET
- F FIRE ALARM PULL STATION +42" AFF
- F FIREMAN'S TELEPHONE JACK +42" AFF
- AUDIO VISUAL FIRE ALARM HORN STROBE +80" AFF- 15/75cd U.N.O.
- VISUAL FIRE ALARM (STROBE) CEILING MOUNT - 15/75cd U.N.O.
- AUDIO FIRE ALARM HORN +80" AFF
- FACP FIRE ALARM CONTROL PANEL
- ANN REMOTE FIRE ALARM ANNUNCIATOR PANEL
- RPS REMOTE POWER SUPPLY FOR AUDIO/VISUAL FIRE ALARM DEVICES.
- FSD FIRE SMOKE DAMPER
- REMOTE LED INDICATOR LIGHT

SECURITY

- PB ADA AUTO DOOR OPEN BUTTON
- DR DOOR RELEASE BUTTON
- CR WALL MOUNTED CARD READER

REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

SWITCHES AND LIGHTING CONTROL DEVICES

ALL SWITCH TYPES AND SENSORS TYPES FOUND ON 'LIGHTING CONTROL DEVICE SCHEDULE' LOCATED ON ELECTRICAL SCHEDULE SHEETS

SWITCH ANNOTATION AS FOLLOWS:
X TYPE, PER SCHEDULE (NO TYPE INDICATES SINGLE POLE TOGGLE SWITCH)
$a,b,c SWITCH LEGS, PER PLAN, SHOWN HERE AS 3 (a,b,c)

OCCUPANCY SENSOR ANNOTATION, AS FOLLOWS:
OCx OCCUPANCY / VACANCE SENSOR 'x' INDICATES TYPE, PER SCHEDULE
CEILING SENSOR
WITH BRACKET INDICATES WALL / CORNER MOUNT

LIGHT SENSOR ANNOTATION, AS FOLLOWS:
PC DIGITAL PHOTOCELL
DS DAYLIGHT HARVESTING SENSOR

RELAY PANELS, CONTACTORS, TIME SWITCHES:
XX RELAYS/CONTACTORS/TIMERS/DEVICES WHERE 'XX' INDICATES:
"LC" LIGHTING CONTRACTOR
"LCP" LIGHTING CONTROL PANEL
"TS" TIME SWITCH
"TC" TIME CLOCK

DRAWING/DETAIL REFERENCE KEY

RE: 1 /E3-2 — REFER TO DRAWING/DETAIL NUMBER; SHEET NUMBER; 1 E3-2

PANELBOARD NOMENCLATURE

5 DP C H A 1
- SUB PANEL
- AREA
- VOLTAGE: H: 480Y/277V; L: 208Y/120V
- BRANCH: NONE: NORMAL; E: LIFE SAFETY; O: EQUIPMENT; C: CRITICAL; R: LEGALLY REQUIRED; X: OPTIONAL STAND-BY
- DISTRIBUTION PANEL (IF APPLICABLE)
- LEVEL

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HEFLIN E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

3303 SYNOTT ROAD HOUSTON, TX 77082

ISSUE FOR BID & PERMIT
10-31-25

REVISIONS
2 02-11-26 ISSUE FOR BID & PERMIT
3 04-06-26 OWNER VE

39-25156-00

ELECTRICAL SYMBOL LEGEND

E0.01

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GENERAL LIGHTING DEMOLITION NOTES:

A. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRESENT ON SITE PRIOR TO BIDDING, AND SHALL BE EXPECTED TO PERFORM DEMOLITION AND INSTALL NEW AS SHOWN ON THE DOCUMENTS, INCLUDING SCOPE THAT MAY NOT FEASIBLY BE INDICATED ON PLAN.

B. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING ELECTRICAL DEVICES ON EXISTING CEILING. ALL ABANDONED DEVICES IN CEILING WITHIN SCOPE OF WORK SHALL BE REMOVED.

C. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL TO ALL REMOVED MATERIALS. CONTRACTOR SHALL COORDINATE WITH OWNER FOR LOCATION TO RETURN ANY AND ALL MATERIAL FOR OWNER STORAGE. FAILURE TO TURN OVER REMOVED MATERIAL TO OWNER MAY REQUIRE CONTRACTOR TO REPLACE EQUIPMENT REMOVED WITH NEW.

D. REMOVE ALL ELECTRICAL DEVICES WITHIN DEMOLISHED WALLS INCLUDING SWITCHES AND FIRE ALARM DEVICES. REFER TO ARCHITECTURAL DEMO PLAN. THIS SCOPE MAY NOT BE DIRECTLY IMPLIED BY NOTES ON DEMO PLANS AS IT IS ASSUMED THIS SCOPE EXISTS BASED ON ARCHITECTURAL DEMOLITION PLANS.

E. CONTRACTOR SHALL REVIEW DEMO AND NEW WORK PLANS SIMULTANEOUSLY TO IDENTIFY SCOPE THAT IS TO BE MODIFIED FOR REUSE WITH NEW SCOPE.

F. ALL FIXTURES REMOVED AND REINSTALLED SHALL BE CLEANED, RELAMPED AS REQUIRED AND TOUCHED UP WITH PAINT. ALL DAMAGED PARTS MUST BE REPLACED. THE FIXTURES SHALL THEN BE REINSTALLED AS REQUIRED. PROVIDE NEW DRIVERS AS REQUIRED.ALL EXISTING SWITCHING ZONES SHALL REMAIN UNCHANGED UNLESS DIRECTED OTHER OR PLANS.

G. ALL LIGHTING CIRCUITS SHALL BE DEMOLISHED AS REQUIRED BY THE DEMOLITION SCOPE ON THE DOCUMENTS. REPAIR ANY CIRCUITS THAT ARE PARTIALLY DEMOLISHED AND CONTAIN OUTLETS THAT ARE 'NOT IN SCOPE' OR OUTSIDE OF THE LIMITS OF CONSTRUCTION TO WORKING CONDITION. PROVIDE ADDITIONAL CONDUIT, WIRE AND BOXES AS NEEDED.

H. MODIFIED LIGHTING CIRCUITS SHALL NOT EXCEED 50% CIRCUIT LOAD BASED ON CIRCUIT AMPACITY.

I. ALL EXISTING INTERCOM/SPEAKERS SHALL BE REMOVED AND REINSTALLED AS REQUIRED TO FACILITATE RENOVATION. SUBJECT TO EXISTING EQUIPMENT OPERATION CONDITION VERIFICATION.

J. WHERE CEILING REPLACEMENTE IS REQUIRED, ALL EXISTING CEILING DEVICES SHALL BE UNINSTALLED AND REINSTALLED AS REQUIRED, INCLUDING PUBLIC ADDRESS DEVICES, FIRE ALARM DEVICES, LIGHTING CONTROL DEVICES, ETC. REFER TO ARCHITECTURAL PLANS FOR CEILING REPLACEMENT LOCATIONS.

GENERAL ELECTRICAL NOTES:

A. ELECTRICAL DEVICE LOCATIONS SHOWN ARE NOT EXACT. ALL DEVICE LOCATIONS SHALL BE VERIFIED WITH ARCHITECTURAL MILLWORK, CASEWORK, AND GENERAL ELEVATION VIEWS.

B. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES FOR ALL TECHNOLOGY, LOW VOLTAGE, ACCESS CONTROL SECURITY, SURVEILLANCE, AND OTHER DIVISION 27/28 SCOPE. REFER TO DIVISION 27/28 DRAWINGS AND SPECIFICATIONS FOR ALL WORK REQUIRED. OMISSION OF THIS SCOPE FROM DIV 26 SCOPE OF WORK IS PROHIBITED.

C. HVAC AND PLUMBING EQUIPMENT LOCATIONS ARE NOT EXACT, AND THE EXACT POINT OF CONNECTION TO EQUIPMENT MAY VARY. COORDINATE EXACT ROUGH-IN REQUIREMENTS IN FIELD AND WITH FINAL SUBMITTALS.

D. PROVIDE LABELING OF ALL DEVICES, CONDUIT, PANELS, AND JUNCTION BOXES WITH TYPE-WRITTEN LABEL IDENTIFYING CIRCUIT ON THE BACK OF DEVICE COVER PLATES AND ON COVER OF JUNCTION BOXES IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

E. ROOF PENETRATIONS SHALL BE MINIMIZED. WHERE ABLE, ROUTE ALL CONDUIT FOR ROOF MOUNTED EQUIPMENT THROUGH ROOF CURB. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING NECESSARY WATER PROOFING AROUND ROOF PENETRATIONS WITH ROOFING INSTALLER.

F. ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL ROOMS, ELEVATOR PITS OR SHAFTS, ELEVATOR EQUIPMENT ROOMS, SERVING ELECTRIC DRINKING FOUNTAINS OR VENDING MACHINES, LOCATED WITHIN 6' OF A SINK, LOCATED ABOVE A WET COUNTERTOP OR IN A KITCHEN OR COFFEE BAR SHALL BE GFCI. FEED-THRU GFCI/GFI IS PROHIBITED. ALL GFCI/GFI DEVICES SHALL BE PROVIDED WITH INDIVIDUAL TEST/RESET FEATURES. ALL GFCI RECEPTACLES SHALL BE ACCESSIBLE. PROVIDE SEPARATE RECEPTACLE PROTECTED BY "FACELESS GFCI." REQUIRED TO COMPLY WITH CURRENTLY ADOPTED NEC.

G. MULTI-WIRE HOME RUNS SHALL NOT BE ALLOWED. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. SHARING CONDUIT IS PERMISSIBLE WHERE TOTAL CONDUCTOR AMPACITY DERATING HAS BEEN PERFORMED BY ELECTRICAL CONTRACTOR. THE NEUTRAL IS CONSIDERED CURRENT-CARRYING. ROUTE A MAXIMUM OF THE 3 BRANCH CIRCUITS IN A SINGLE 3/4" RACEWAY. EACH NEUTRAL SHALL BE LABELED TO INDICATE THE CIRCUIT NUMBER CORRESPONDING TO THE HOT CONDUCTOR. THIS LABEL SHALL INCLUDE THE PANELBOARD, JUNCTION BOXES AND OUTLET BOXES.

H. ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE EXCEPT IN MDF/IDF CLOSETS.

I. CONTRACTOR SHALL PROVIDE PLENUM RATED MATERIAL FOR ALL INFRASTRUCTURE LOCATED IN PLENUMS NOT PROTECTED BY CONDUIT OR ANOTHER APPROVED/LISTED FIRE ENCLOSURE.

J. NEW ELECTRICAL EQUIPMENT LOCATED IN ELECTRICAL ROOMS SHALL BE ARRANGED TO COMPLY WITH LATEST NEC ARTICLE 110.

K. ELECTRICAL AND TECHNOLOGY OUTLETS SHOWN IN SOUND RATED PARTITIONS SHALL NOT BE PLACED BACK-TO-BACK. OFFSET AT LEAST ONE STUD AND SEAL FOR SOUND AS REQUIRED.

L. ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. CONTRACTOR PAY PROVIDE NON-TAMPER RESISTANT RECEPTACLES WHERE NOT REQUIRED PER CURRENT NEC ARTICLE 406.

M. ALL VFDS, MOTOR STARTERS, OR DISCONNECT SWITCHES SHALL BE SUPPLIED BY DIVISION 23 AND INSTALLED BY DIVISION 26 UNLESS NOTED OTHERWISE. ELECTRICAL CONNECTIONS SHALL BE PROVIDED BY DIVISION 26. DIVISION 26 SHALL COORDINATE WITH DIVISION 23 PRIOR TO ROUGH-IN.

N. PROVIDE LABELING OF ALL DEVICES, CONDUIT, PANELS, AND JUNCTION BOXES IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

O. PROVIDE TIME DELAY RELAY FOR EACH FAN COIL UNIT (FCU) AND AIR COOLED CONDENSING UNIT (ACCU) TO ALLOW THEM TO START UP IN 30 SECOND INTERVALS IN THE EVENT OF A POWER LOSS.

P. FEED-THRU GFCI/GFI IS PROHIBITED. ALL GFCI/GFI DEVICES SHALL BE PROVIDED WITH INDIVIDUAL TEST/RESET FEATURES.

Q. LABEL ALL CIRCUITS AT ALL JUNCTION BOXES AND OUTLETS (AS DEFINED BY NEC) WITH TYPE-WRITTEN LABEL IDENTIFYING CIRCUIT ON THE BACK OF DEVICE COVER PLATES OR ON COVER OF JUNCTION BOX. IF A BOX HAS MULTIPLE CIRCUITS WITHIN, LABEL ALL CIRCUITS.

R. DRAWINGS ARE DIAGRAMMATIC AND NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL OR THEIR EXACT LOCATION. THE CONTRACTOR SHALL COORDINATE WITH THE VARIOUS TRADES TO AVOID INTERFERENCE BETWEEN DEVICES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE A COMPLETE WORKING SYSTEM WHICH WILL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, AND AHJ.

S. BRANCH CIRCUITS SHALL NOT BE ROUTED UNDER SLAB EXCEPT AS SHOWN. FEEDERS SERVING SWITCHGEAR, DISTRIBUTION PANELS, LIGHTING CLASS PANELBOARDS AND MECHANICAL EQUIPMENT MAY BE INSTALLED UNDER SLAB. FEEDER TO BE ROUTED UNDER SLAB ARE SHOWN AS DASHED LINES, AND OVERHEAD FEEDERS ARE SHOWN AS SOLID, CONTINUOUS LINES. REFER TO FLOOR PLANS AND ELECTRICAL SYMBOLS LEGEND.

T. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL EXHAUST FAN CONTROLS. PROVIDE A FAN SWITCH IF INDICATED BY MECHANICAL.

U. ALL ELECTRICAL CONDUITS SHALL RUN PERPENDICULAR OR PARALLEL TOTHE WALLS, BEAMS, ETC. AND SHALL BE COORDINATED WITH ARHITECT PRIOR TO ROUTING. ALL CONDUITS SHALL BE PAINTED AS DIRECTED BY ARCHITECT.

V. ALL RECEPTACLES DENOTED AS WEATHERPROOF RECEPTACLES SHALL BE WEATHERPROOF WHILE IN USE RECEPTACLES WITH AN OUTLET BOX HOOD LISTED AS "EXTRA DUTY" PER NEC 2023 406.9(B)(1).

W. CONTRACTOR SHALL INSTALL EQUIPMENT GROUNDING CONDUCTOR IN ALL RACEWAYS. INSTALL GROUNDING BUSHINGS WHERE CONCENTRIC OR ECCENTRIC KNOCKOUTS OR REDUCING BUSHINGS ARE USED. BOND ALL BOXES TO EQUIPMENT GROUNDING CONDUCTOR.

X. NO MORE THAN SIX PHASE CONDUCTORS SHALL BE INSTALLED IN A SINGLERACEWAY .ANY COMBINATION OF PHASE CONDUCTORS AND GROUNDED (NEUTRAL)CONDUCTORS AND EQUIPMENT GROUND CONDUCTORS IN ANY RACEWAY SHALL NOT EXCEED SEVEN.

Y. ALL CONDUCTORS SHALL BE COPPER; ALUMINUM IS NOT ACCEPTABLE.

Z. PROVIDE CONCRETE HOUSEKEEPING PAD FOR ALL PAD-MOUNTED TRANSFORMERS AND PAD-MOUNTED SWITCHGEAR.

AA. ELECTRICAL DEVICES SHOWN ARE NOT EXACT. ALL DEVICE LOCATIONS AND MOUNTING HEIGHTS SHALL BE VERIFIED WITH ARCHITECT AND ARCHITECTURAL MILLWORK, CASEWORK, AND GENERAL ELEVATION VIEWS.

BB. PROVIDE POWER FOR ALL FIRE AND SMOKE DAMPERS, BLAST DAMPERS, AND MOTORIZED DAMPERS IN BUILDING. REFER TO MECHANICAL DRAWINGS FOR PROPOSED LOCATIONS. COORDINATE EXACT LOCATIONS AND QUANTITIES WITH DIVISION 23.

GENERAL POWER DEMOLITION NOTES:

A. EXISTING CIRCUIT BREAKERS VACATED DUE TO REMODELING WORK SHALL REMAIN AS SPARE BREAKERS AND LEFT IN THE 'OFF' POSITION.

B. WHERE INDICATED OR REQUIRED BY OTHER TRADES, CONTRACTOR SHALL REMOVE ALL ELECTRICAL CONNECTIONS TO EXISTING PREWIRED FURNITURE. REMOVE CONDUIT AND WIRING BACK TO LAST ACTIVE JUNCTION. ALL DATA CABLING SHALL BE REMOVED.

C. CONTRACTOR SHALL REPORT ANY DAMAGED DEVICES THAT ARE SHOWN AS EXISTING TO REMAIN. ALL DEVICES FOUND TO BE DAMAGED AT THE TIME OF SUBSTANTIAL COMPLETION THAT NOT REPORTED PRIOR TO STARTING WORK SHALL BE REPLACED AT THE CONTRACTOR'S COST.

D. DEMOLISHED POKE-THRUS SHALL BE DISCONNECTED FROM EXISTING BRANCH CIRCUIT, DATA AND/OR AV CONDUCTORS. CAP WITH A UL LISTED FIRE RATED POKE-THRU COVER.

E. EXISTING RECEPTACLE OR MECHANICAL CIRCUITS MODIFIED IN FIELD SHALL NOT EXCEED 80% CAPACITY BASED ON AMP-RATING OF CIRCUIT.

LIGHTING GENERAL NOTES:

A. ALL LIGHTING CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH PERFORMANCE DESCRIPTION INDICATED IN THE LIGHTING CONTROL DEVICE SCHEDULE FOUND ON SCHEDULE SHEETS.

B. MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED UNDER A COMMON COVER PLATE.

C. PROVIDE LABELING OF ALL CONTROL DEVICES, SWITCH PACKS, LIGHT FIXTURES, JUNCTION BOXES, ETC IN ACCORDANCE WITH SPECIFICATIONS.

D. LIGHTING FIXTURE LOCATIONS SHOWN TAKE PRECEDENCE IN CEILING LOCATION TO ALL OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING OTHER TRADES DO NOT IMPACT SPACING AND/OR OVERLAYMENT OF OTHER DEVICES WHERE LIGHT FIXTURES ARE INSTALLED.

E. REFERENCE SYMBOLS LEGEND FOR LIGHT SWITCH AND LIGHTING CONTROL DEVICE NOMENCLATURE AND SWITCH-LEG ANNOTATION OR LABELING.

F. ALL 2X2, 2X4 FIXTURES INSTALLED IN SUSPENDED GRID CEILING SHALL BE PROVIDED WITH (4) SECONDARY SUPPORT WIRES ANCHORED DIRECTLY TO STRUCTURE.

G. ALL ELECTRICAL CONDUITS SHALL RUN PERPENDICULAR OR PARALLEL TO THE WALLS, BEAMS, ETC. AND SHALL BE COORDINATED WITH ARHITECT PRIOR TO ROUTING. ALL CONDUITS SHALL BE PAINTED AS DIRECTED BY ARCHITECT.

H. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES.

I. ALL LIGHT FIXTURES/LENS SHALL BE CLEAN OF DUST,DIRT/DEBRIS AT THE TIME OF SUBSTANTIAL COMPLETION.

J. ROUTE A HOT LEG, SWITCHED LEG, AND A GROUND FOR ALL LINE VOLTAGE SWITCHES.

K. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATIONS WITH DUCTWORK AND PIPING IN MECHANICAL ROOMS.

L. ALL 2X2, 2X4 FIXTURES INSTALLED IN SUSPENDED GRID CEILING SHALL BE PROVIDED WITH (2) SECONDARY SUPPORT WIRES ANCHORED DIRECTLY TO STRUCTURE.

M. ALL NEW DEVICES LOCATED ON EXISTING CONCRETE OR BLOCK WALLS/CEILINGS SHALL HAVE SURFACE MOUNTED CONDUIT. PAINT CONDUIT TO MATCH COLOR OF WALL. COORDINATE WITH ARCHITECT. WHERE DEVICES ARE LOCATED IN SAME LOCATION AS EXISTING DEVICES, REUSE BACK BOXES AND EXISTING CONCEALED CONDUIT WHERE ABLE.

N. WHERE CEILING REPLACEMENTE IS REQUIRED, ALL EXISTING CEILING DEVICES SHALL BE UNINSTALLED AND REINSTALLED AS REQUIRED, INCLUDING PUBLIC ADDRESS DEVICES, FIRE ALARM DEVICES, LIGHTING CONTROL DEVICES, ETC. REFER TO ARCHITECTURAL PLANS FOR CEILING REPLACEMENT LOCATIONS.

EMER. LIGHTING GENERAL NOTES:

A. PROVIDE ALL EMERGENCY LIGHT FIXTURES WITH UNSWITCHED HOT LEG AS INDICATED IN NEC 700.12 AND PROVIDE LOCK-ON DEVICE AS REQUIRED BY NEC 700.

B. ROUTE AN UNSWITCHED HOT LEG TO ALL LIGHT FIXTURES DESIGNATED AS EMERGENCY FIXTURES. HOT LEG SHALL ORIGINATE FROM CIRCUIT SERVING NORMAL LIGHTING FIXTURES IN THAT SPACE. UNSWITCHED HOT LEG SHALL CONNECT TO THE NORMAL POWER SENSING LUG ON THE EMERGENCY BATTERY PACK.

C. PROVIDE UN-SWITCHED CIRCUIT TO ALL EXIT SIGNS. CONNECT TO DEDICATED CIRCUIT INDICATED AND PROVIDE LOCK-ON DEVICE AS REQUIRED BY NEC 700.

FIRE ALARM REMODELING NOTES:

A. CONTRACTORS ARE RESPONSIBLE FOR VISITING THE SITE AND VERIFYING THE EXISTING FIRE ALARM SYSTEM AND SCOPE OF WORKED REQUIRED PER PLANS AND SPECIFICATIONS, PRIOR TO BIDDING. VERIFY EXISTING SITE CONDITIONS, MAKE AND MODEL OF CURRENT FIRE ALARM SYSTEM. NECESSITY OF ANY FRONT-END UPGRADES, CODE COMPLIANCE OF EXISTING DEVICES LOCATED WITHIN THE SCOPE OF WORK AREA, TO BE KNOWN BY FIRE ALARM CONTRACTOR UPON DESIGN OF FIRE ALARM SHOP DRAWINGS.

B. THE INTENT OF THIS PLAN IS TO INCORPORATE NEW AND RELOCATED DEVICES WITH THE EXISTING BUILDING FIRE ALARM SYSTEM.

C. ALL NOTIFICATION DEVICES SHALL BE ACTIVATED AS REQUIRED BY APPLICABLE CODE WHEN FIRE ALARM SYSTEM IS INITIATED.

D. IT IS ASSUMED WITH THIS REMODEL THAT THE EXISTING SYSTEM MEETS REQUIRED CODES FOR THE ORIGINAL DATE OF INSTALLATION, AND BUILDING MANAGEMENT HAS MAINTAINED SYSTEM IN COMPLIANCE WITH LIFE SAFETY 101. FOR SEQUENCE OF OPERATIONS AND SPECIFICATIONS, REFER TO ORIGINAL SYSTEM DOCUMENT. COORDINATE WITH BUILDING MANAGEMENT.

E. THE EQUIPMENT SUPPLIER AND INSTALLING CONTRACTOR SHALL BE LICENSED BY THE STATE FIRE MARSHALL TO SELL, INSTALL, AND SERVICE FIRE ALARM SYSTEMS AS REQUIRED BY LOCAL CODES AND INSURANCE CODE.

F. ALL NEW EQUIPMENT REQUIRED FOR THIS REMODEL SHALL BE COMPATIBLE WITH THE EXISTING BUILDING SYSTEM AND IS TO BE A PART OF THE SUBMITTAL PROCESS AS NOTED IN THE ELECTRICAL SPECIFICATIONS FOR THIS PROJECT. PROVIDE ADDITION SYSTEM POWER BOOSTER WHERE REQUIRED.

G. VERIFY QUANTITIES OF NEW DEVICES TO INTERFACE WITH THE EXISTING BUILDING SYSTEM. THE CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGEMENT AND SHALL NOTIFY THE ENGINEER IF ANY CONFLICT EXISTS PREVENTING MODIFICATIONS REQUIRED IN THESE PLANS.

H. THE SYSTEM WHEN MODIFIED, SHALL BE A COMPLETE AND WORKING SYSTEM, AND COMPLY WITH THE MOST RECENT RULES, REGULATIONS, AND ORDINANCES THAT PRESENTLY APPLY TO THIS REMODEL.

I. ANY DEVICE THAT SUFFERS MALFUNCTION DURING RENOVATION SHALL BE REPLACED AT NO COST TO OWNER. CONTRACTOR SHALL TAKE PROPER STEPS TO ENSURE DUST AND DEBRIS DOES NOT NEGATIVELY INTERFERE WITH OPERATION OF ANY EXISTING EQUIPMENT LEFT OPERATIONAL DURING RENOVATION.

GENERAL SITE PLAN NOTES:

A. CONTRACTOR SHALL INSTALL ALL RACEWAYS, DUCTBANKS, CONCRETE PADS ETC. REQUIRED BY THE UTILITY COMPANY. OBTAIN WRITTEN INSTRUCTIONS FROM THE UTILITY COMPANY BEFORE ROUGH IN.

B. CONTRACTOR SHALL BORE UNDERNEATH EXISTING PAVEMENT WHERE CONDUITS ARE ROUTED UNDER EXISTING PAVING. SAW CUTTING IS NOT PERMITTED WITHOUT OWNER PERMISSION PRIOR TO BEGINNING WORK.

C. CONDUIT SHALL BE PERMITTED TO BE ROUTED EXPOSED/SURFACE MOUNTED IN MECHANICAL YARDS. EXPOSED CONDUITS SHALL RUN PERPENDICULAR OR PARALLEL TO THE WALLS, BEAMS, ETC. ROUTING SHALL BE COORDINATED WITH OWNER PRIOR TO ROUGH-IN.

D. CONTRACTOR SHALL SAW CUT EXISTING CONCRETE SLABS WHEN REQUIRED TO INSTALL NEW RACEWAYS. COORDINATE PROPOSED ROUTING WITH ARCHITECT PRIOR TO SAW CUTTING. CONTRACTOR SHALL PATCH TO MATCH EXISTING CONDITIONS. PERFORM X-RAY SCAN ON ANY POST TENSION SLAB PRIOR TO COMMENCING CUTTING.

E. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS WHEN EXCAVATING TO AVOID DAMAGE TO EXISTING POWER, COMMUNICATIONS, WATER, SANITARY/SEWER, AND/OR GAS LINES THAT MAY BE BURIED IN AREAS OF NEW CONSTRUCTION OR WHEN TRENCHING FOR NEW FEEDERS AND BRANCHES IS REQUIRED. COORDINATE WITH CIVIL PLANS FOR ADDITIONAL INFORMATION.

F. COORDINATE EQUIPMENT LOCATIONS WITH ARCHITECTURAL AND CIVIL PLANS FOR EXACT EQUIPMENT LOCATION BEFORE INSTALLATION. EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE.

G. THE CONTRACTOR SHALL PROVIDE AND INSTALL PULL STRINGS TO ALL SPARE OR UNUSED UNDERGROUND CONDUITS.

H. CONTRACTOR SHALL PROVIDE CONDUIT AS REQUIRED BY DIVISION 27/28. COORDINATE WITH DIVISION 27/28 SYSTEM PROVIDER FOR EXACT SIZE AND QUANTITY OF CONDUITS REQUIRED.

I. PROVIDE FLUSH WITH GRADE TRAFFIC-RATED CONCRETE PULL-BOXES AS REQUIRED EVERY 250' MAXIMUM FOR ALL BELOW GRADE CONDUIT RUNS SHOWN. LOW VOLTAGE AND LINE VOLTAGE CABLING SHALL NOT BE RUN THROUGH THE SAME PULL BOX.

J. ELECTRICAL SERVICE PULL-BOXES/MANHOLES SHALL BE COORDINATED WITH THE POWER COMPANY. REFER TO POWER COMPANY STANDARDS FOR EXACT REQUIREMENTS.

K. UNDER GROUND BRANCH CIRCUITS CONDUITS SHALL BE A MINIMUM SIZE OF 1 INCH USING #10 AWG CONDUCTORS UNLESS OTHERWISE NOTED.

L. ALL UNDERGROUND FEEDERS AND BRANCH CIRCUIT SHALL BE PROVIDED WITH PULLBOXES AS REQUIRED BY NEC.

M. ALL PULL BOXES SHALL BE INSTALLED FLUSH WITH FINISHED GRADE. REFER TO CIVIL PLANS FOR FINAL GRADE ELEVATION.

N. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS. WHERE CONDUIT PATH CROSSES UNDER EXISTING PAVEMENT.

GENERAL ELECTRICAL DEMOLITION NOTES:

A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED THE EXISTING JOB SITE CONDITIONS DURING THE BIDDING PERIOD TO OBTAIN THE SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF THE ARCHITECTURAL MODIFICATIONS TO THE EXISTING CONDITIONS. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND OUTLETS, CONSISTING OF FIXTURES, DEVICES, EQUIPMENT OR APPARATUS, WHICH MUST BE REROUTED, RELOCATED OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED SO THAT THE REMODELING WORK MAY BE ACCOMPLISHED. NOT ALL EXISTING OUTLETS ARE NECESSARILY INDICATED ON THE DRAWINGS.

B. CONTRACTOR SHALL REVIEW DEMOLITION AND NEW WORK PLANS SIMULTANEOUSLY TO IDENTIFY SCOPE THAT IS TO BE MODIFIED FOR REUSE WITH NEW SCOPE.

C. CONTRACTOR SHALL VERIFY AND DOCUMENT EXISTING CONDITIONS OF ALL OUTLETS THAT ARE INDICATED OR REQUIRED TO BE REMOVED AND REINSTALLED TO FACILITATE THE WORK REQUIRED BY ALL TRADES. THE CONTRACTOR SHALL REPLACE NON-OPERABLE DEVICES AT NO ADDITIONAL COST TO THE OWNER. DOCUMENT OUTLETS IN NON-WORKING CONDITION PRIOR TO REMOVAL AND NOTIFY THE OWNER.

D. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL TO ALL REMOVED MATERIALS. CONTRACTOR SHALL COORDINATE WITH OWNER FOR LOCATION TO RETURN ANY AND ALL MATERIAL FOR OWNER STORAGE. FAILURE TO TURN OVER REMOVED MATERIAL TO OWNER MAY REQUIRE CONTRACTOR TO REPLACE EQUIPMENT REMOVED WITH NEW.

E. REMOVE ALL ELECTRICAL DEVICES WITHIN DEMOLISHED WALLS INCLUDING RECEPTACLES, DATA/TELEPHONE DROPS, P/A DEVICES, CONDUIT, AND WIRING. ALL EXISTING DEVICES MAY NOT BE DOCUMENTED ON PLANS. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR DEMOLISHED WALLS. REMOVE CONDUIT AND WIRING BACK TO PANEL OR LAST ACTIVE JUNCTION BOX.

F. ALL ABANDONED CONDUIT AND BOXES FOUND IN CRAWLSPACES, CEILINGS SPACES, CHASES, OR UTILITY SPACES SHALL BE REMOVED. EXISTING UNDERGROUND CONDUIT MAY BE ABANDONED. CAP ABANDONED UNDERGROUND CONDUIT FLUSH WITH GRADE.

G. OWNER SHALL RESERVE THE RIGHT TO CLAIM ALL EQUIPMENT AND CABLING REMOVED DURING DEMOLITION.

H. RE-ESTABLISH SERVICE TO ALL OUTLETS THAT MAY BE INTERRUPTED DUE TO REMODELING WORK.

I. PROVIDE ALL APPURTENANCES REQUIRED TO REROUTE, RELOCATE, REMOVE OR REINSTALL ALL ITEMS REQUIRED BY SCOPE OF REMODEL.

J. ALL ABANDONED MATERIAL SHALL BE REMOVED FROM JOBSITE PRIOR TO PROJECT COMPLETION.

K. IDENTIFICATION AND LABELING SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATIONS.

L. CIRCUIT NUMBERS ARE FOR PLAN REFERENCE ONLY. CONTRACTOR SHALL RELABEL ALL CIRCUIT DIRECTORIES WITH LOAD NAMES FOR ALL EXISTING AND NEW PANELS THAT WERE MODIFIED WITHIN THIS PROJECT.

FIRE ALARM GENERAL NOTES:

A. CONTRACTOR SHALL SUBMIT LICENSED SEALED FIRE ALARM DRAWINGS TO THE AHJ/PERMIT OFFICE FOR PLAN REVIEW BY MEANS OF DEFERRED SUBMITTAL.

B. ALL CEILING MOUNTED DEVICES SHALL BE CENTERED IN THE CEILING TILE.

C. ALL FIRE ALARM VISUAL AND AUDIO/VISUAL DEVICES SHALL BE CONFIGURED TO PROVIDE CANDELA RATINGS IN ACCORDANCE WITH ADA & NFPA COVERAGES.

D. CONTRACTOR SHALL PROVIDE 120V DEDICATED 20A BRANCH CIRCUIT WITH LOCK-ON BREAKER PROVISIONS TO EACH SPEAKER AMPLIFIER AND VISUAL DEVICE POWER SUPPLIES AS REQUIRED BY FIRE ALARM SHOP DRAWINGS. CONNECT TO EMERGENCY POWER WHEN AVAILABLE.

E. ALL WIRING FOR DEVICES IN EXPOSED STRUCTURE AREAS SHALL BE ROUTED WITHIN CONDUIT. EXPOSED ROUTING SHALL BE AVOIDED. EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.

F. CONTRACTOR SHALL PROVIDE CONDUIT PATHWAYS FOR FIRE ALARM PLENUM CONDUCTORS WHERE ROUTED ABOVE HARD CEILING AREAS. CONDUIT RACEWAYS SHALL ALLOW ACCESS TO CONDUIT AT EACH END IN ACCESSIBLE LOCATIONS ABOVE CEILINGS.

G. LOCATE NEW SMOKE DETECTORS IN THE PATH OF EGRESS , ELECTRICAL, MECHANICAL, IDF ROOMS, STORAGE ROOMS AND OTHER LOCATIONS IN CHILDREN AREAS.

H. DUCT MOUNTED SMOKE DETECTORS SERVING HVAC UNITS WITH 2000 CFM OR GREATER SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION IN RETURN AIR DUCT INSIDE THE BUILDING THE UNIT SERVES. IT IS NOT ACCEPTABLE TO INSTALL DUCT MOUNTED SMOKE DETECTORS AT THE HVAC UNIT ON THE ROOF OR EXTERIOR OF THE BUILDING.

I. LOCATE HEAT DETECTORS IN BREAKROOM AREAS.

J. PROVIDE NEW AUDIO & VISUAL DEVICES PER APPLICABLE CODE.

K. FIRE ALARM SYSTEM SHALL BE PROVIDED PER PERFORMANCE SPEC. CONTRACTOR SHALL REFERENCE SPEC SECTION NUMBER 284600 FOR FIRE ALARM SYSTEM.

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ELECTRICAL GENERAL NOTES

E0.11

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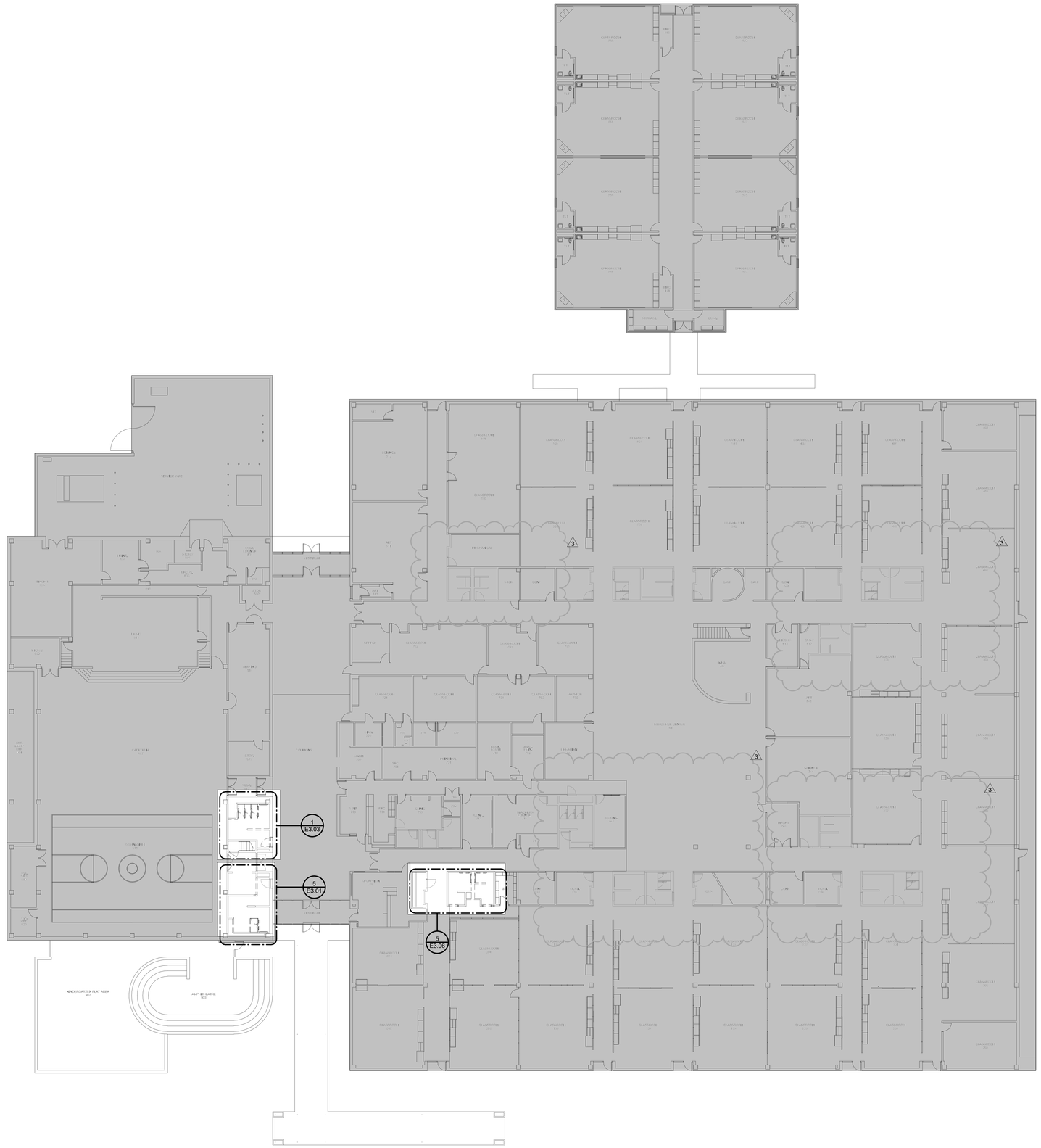

N
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1 **LEVEL 01 - DEMOLITION COMPOSITE ELECTRICAL LIGHTING PLAN**
1/16" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

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LEVEL 01 - COMPOSITE DEMOLITION ELECTRICAL LIGHTING PLAN

E1.11

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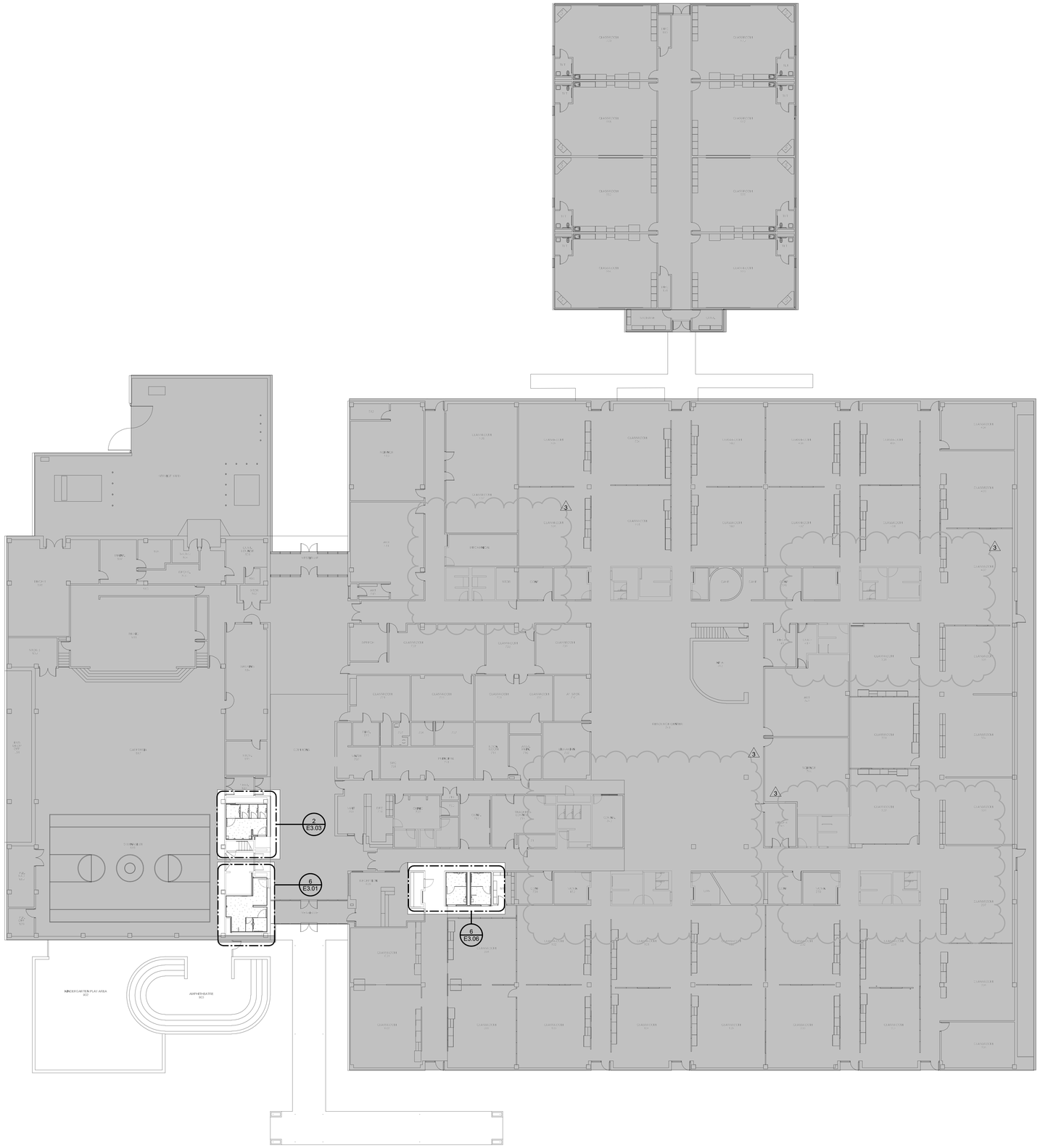

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

N
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1 **LEVEL 01 - COMPOSITE ELECTRICAL LIGHTING PLAN**
1/16" = 1'-0"

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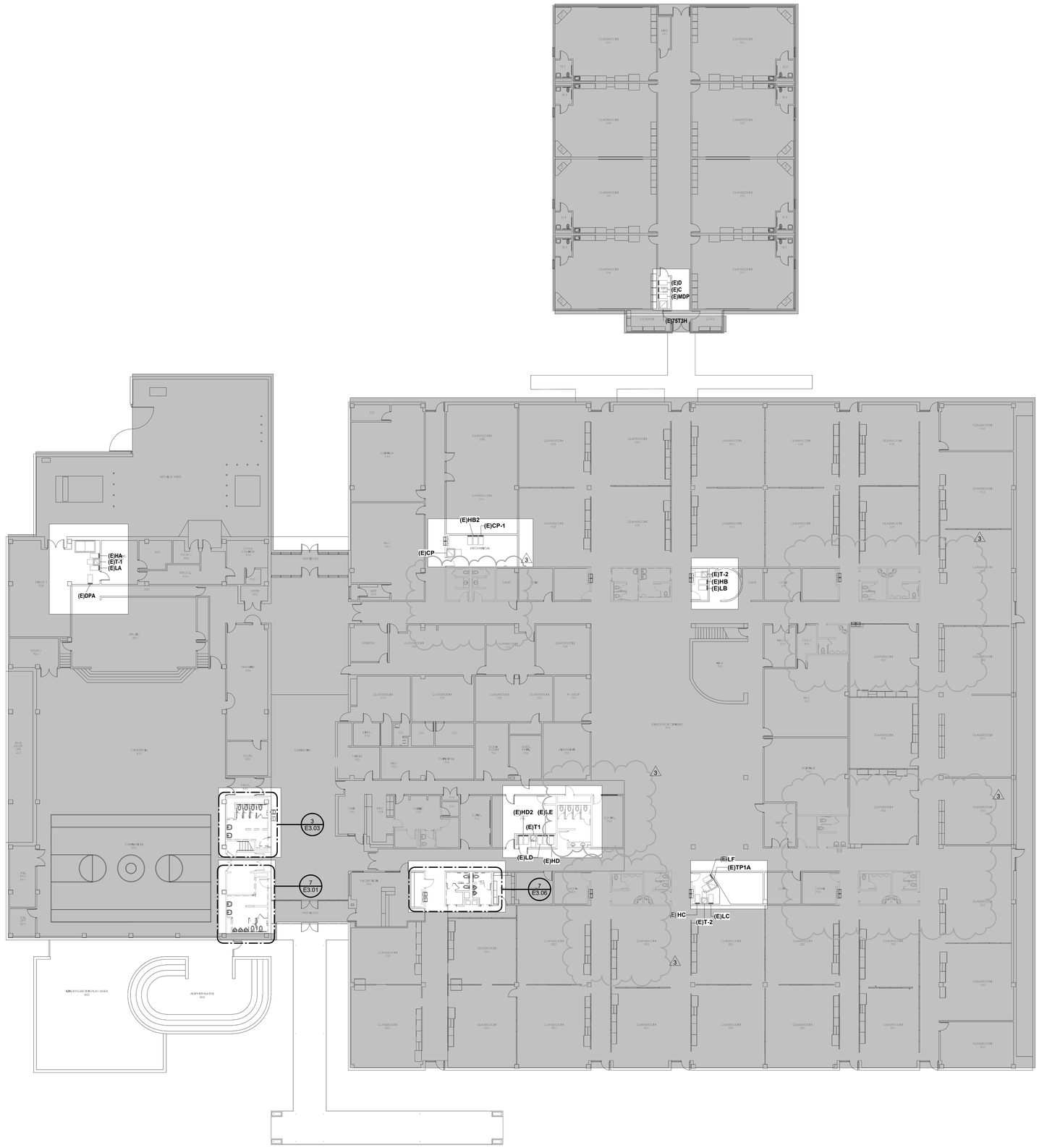
LEVEL 01 - COMPOSITE ELECTRICAL LIGHTING PLAN

E1.12

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.



N
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1 **LEVEL 01 - DEMOLITION COMPOSITE ELECTRICAL POWER PLAN**
1/16" = 1'-0"

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LEVEL 01 - COMPOSITE DEMOLITION ELECTRICAL POWER PLAN

E2.11

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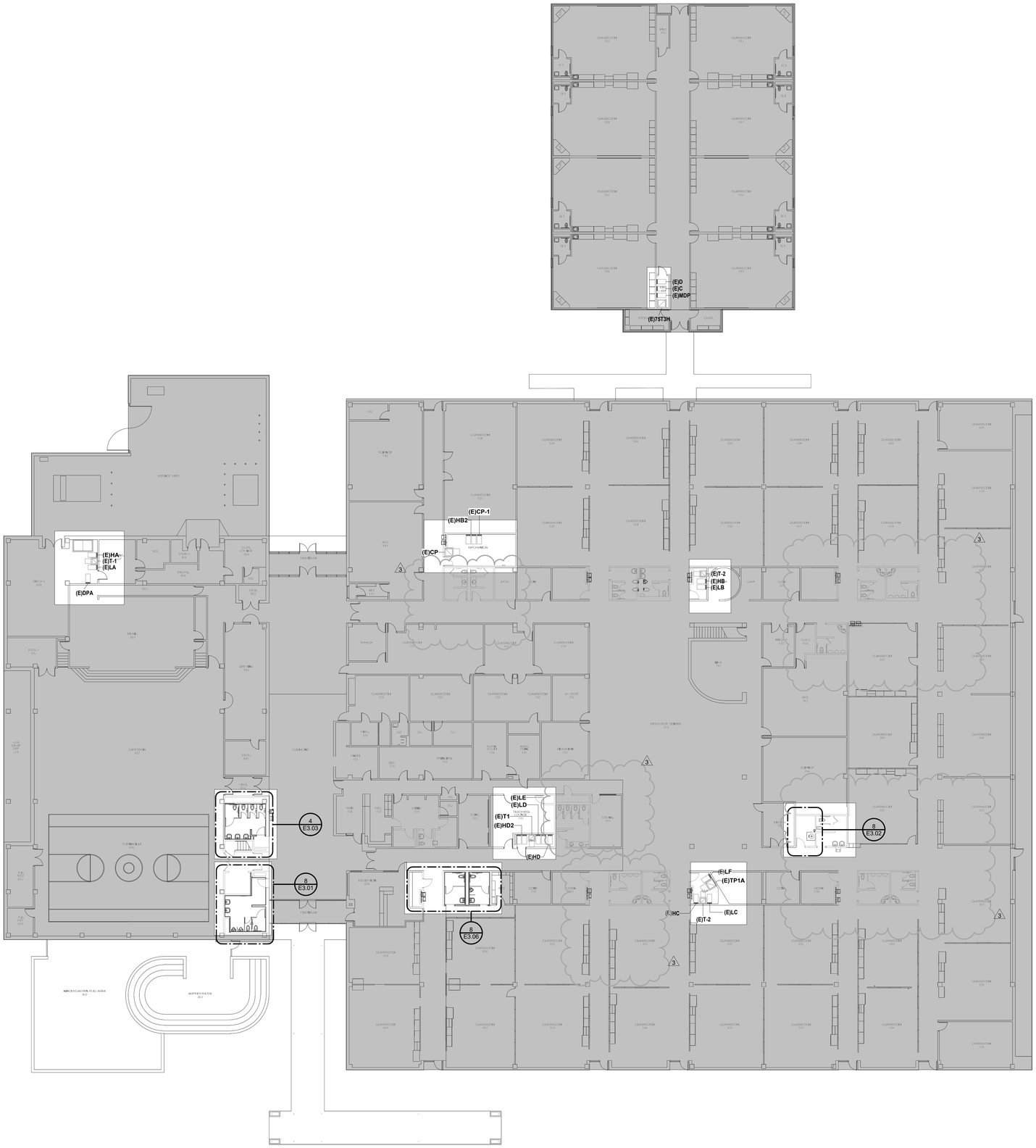
GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.



N
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1 **LEVEL 01 - COMPOSITE ELECTRICAL POWER PLAN**
1/16" = 1'-0"

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LEVEL 01 - COMPOSITE ELECTRICAL POWER PLAN

E2.12

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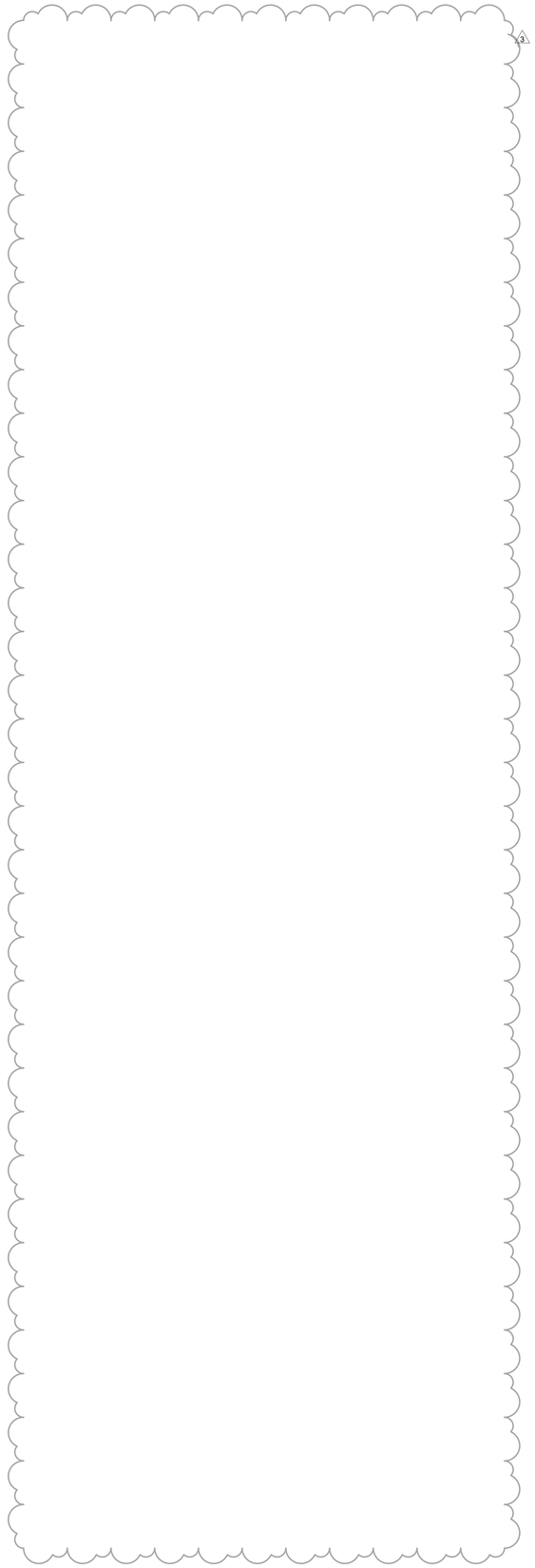


GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

E0.1 DEMOLITION SCOPE OF WORK INCLUDES ALL AREAS WITH DEMOLISHED WALLS AND PARTIALLY DEMOLISHED WALLS. REMOVE CONDUCTORS AND CONDUIT BACK TO PANEL. ANY UNDER SLAB CONDUIT MAY BE ABANDONED IN PLACE. FOR ALL DEVICES REMOVED FROM WALLS THAT ARE EXISTING TO REMAIN, CONTRACTOR SHALL PATCH WALLS TO MATCH EXISTING CONDITIONS, COORDINATE WITH ARCHITECT. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

E4.1 CONNECT NEW RECEPTACLE TO EXISTING CIRCUIT SERVING THIS SPACE PRIOR TO DEMOLITION. CONTRACTOR SHALL NOT EXCEED 80% BREAKER RATING PER NEC.

E8.1 EXISTING LIGHTING AND LIGHTING CONTROLS IN SPACE SHALL BE REMOVED. EXISTING LIGHTING CIRCUIT SHALL REMAIN AND BE REUSED. REFERENCE NEW PLANS FOR NEW LIGHTING LAYOUTS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

E8.2 APPROXIMATE LOCATION OF EXISTING SWITCH. EXISTING SWITCH SHALL BE DEMOLISHED AND NEW PROVIDED, REFER TO NEW PLANS. NEW SWITCH SHALL BE LOCATED IN SAME LOCATION AS REMOVED SWITCH. EXISTING SWITCH LOCATIONS SHALL BE FIELD VERIFIED, SWITCHES SHOWN ON PLAN FOR REFERENCE ONLY.

ELECTRICAL KEYED NOTES

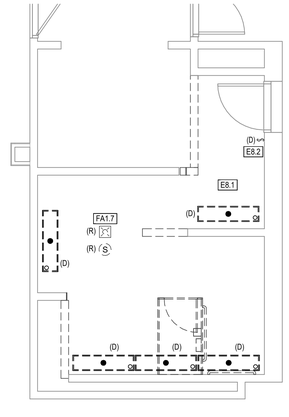
E10.1 APPROXIMATE LOCATION OF NEW SWITCH. NEW SWITCH SHALL BE LOCATED IN SAME LOCATION AS REMOVED SWITCH. EXISTING SWITCH LOCATIONS SHALL BE FIELD VERIFIED, SWITCHES SHOWN ON PLAN FOR REFERENCE ONLY.

E11.1 PROVIDE NEW LED LIGHTING AND NEW LIGHTING CONTROLS IN THIS SPACE AS SHOWN ON PLANS. RECONNECT TO EXISTING LIGHTING CIRCUIT AND TO NEW CONTROLS. EXTEND CONDUIT/CONDUCTORS AS REQUIRED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

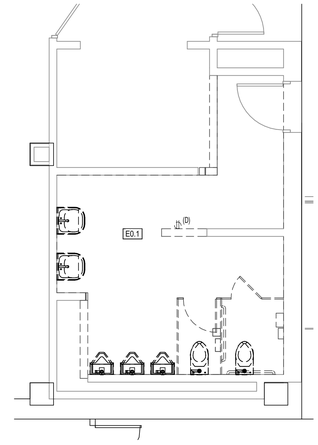
FIRE ALARM KEYED NOTES

FA1.7 ALL EXISTING CEILING MOUNTED FIRE ALARM DEVICES AND PUBLIC ANNOUNCEMENT 'PA' SPEAKER(S) SHALL BE REMOVED AND RELOCATED, REFER TO NEW PLANS FOR NEW LAYOUTS.

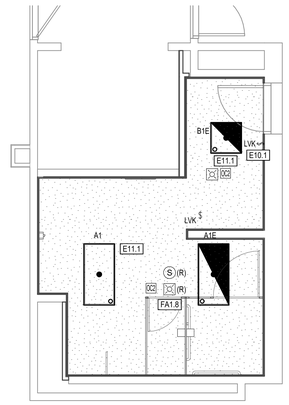
FA1.8 PROVIDE RELOCATED CEILING MOUNTED FIRE ALARM DEVICES AND PUBLIC ANNOUNCEMENT 'PA' SPEAKER(S) DEVICES AS SHOWN ON PLANS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.



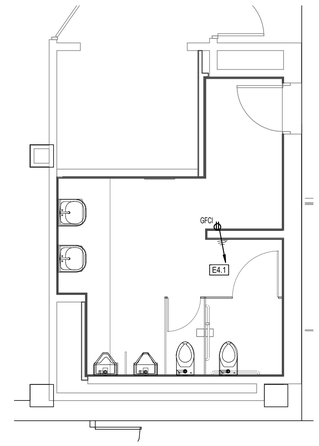
5 LEVEL 01 - DEMOLITION ELECTRICAL LIGHTING PLAN - RR B 800
1/4" = 1'-0"



7 LEVEL 01 - DEMOLITION ELECTRICAL POWER PLAN - RR B 800
1/4" = 1'-0"



6 LEVEL 01 - ELECTRICAL LIGHTING PLAN - RR B 800
1/4" = 1'-0"



8 LEVEL 01 - ELECTRICAL POWER PLAN - RR B 800
1/4" = 1'-0"

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LEVEL 01 - ELECTRICAL PLANS - ENLARGED

E3.01

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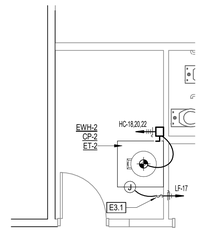
GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

☐ ELECTRICAL KEYED NOTES

E3.1 PROVIDE 120V POWER TO CIRCULATION PUMP AND TIME SWITCH. PROVIDE ASSOCIATED DISCONNECTS AS REQUIRED. COORDINATE EXACT EQUIPMENT REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

☐ FIRE ALARM KEYED NOTES



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8 LEVEL 01 - ELECTRICAL POWER PLAN - RR G 300
1/4" = 1'-0"

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LEVEL 01 - ELECTRICAL PLANS - ENLARGED

E3.02

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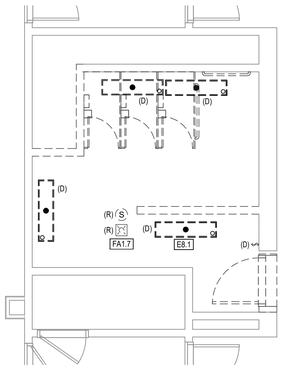

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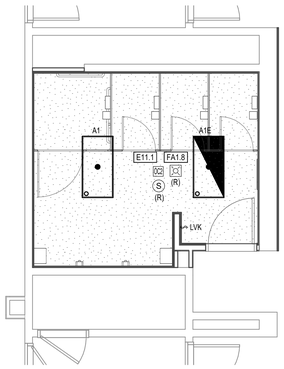
1 LEVEL 01 - DEMOLITION ELECTRICAL LIGHTING PLAN - RR G 800

1/4" = 1'-0"



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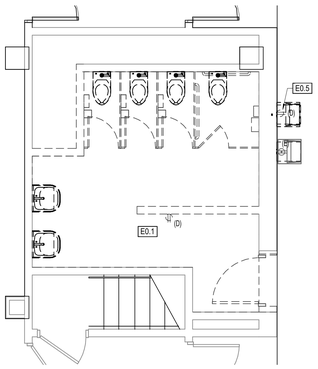
2 LEVEL 01 - ELECTRICAL LIGHTING PLAN - RR G 800

1/4" = 1'-0"



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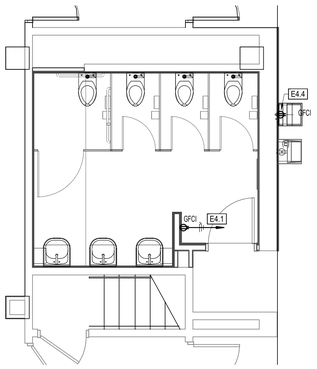
3 LEVEL 01 - DEMOLITION ELECTRICAL POWER PLAN - RR G 800

1/4" = 1'-0"



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4 LEVEL 01 - ELECTRICAL POWER PLAN - RR G 800

1/4" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

E0.1 DEMOLITION SCOPE OF WORK INCLUDES ALL AREAS WITH DEMOLISHED WALLS AND PARTIALLY DEMOLISHED WALLS. REMOVE CONDUCTORS AND CONDUIT BACK TO PANEL. ANY UNDER SLAB CONDUIT MAY BE ABANDONED IN PLACE. FOR ALL DEVICES REMOVED FROM WALLS THAT ARE EXISTING TO REMAIN, CONTRACTOR SHALL PATCH WALLS TO MATCH EXISTING CONDITIONS, COORDINATE WITH ARCHITECT. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

E0.5 EXISTING DRINKING FOUNTAIN BEING DEMOLISHED AND REPLACED WITH NEW. CONTRACTOR SHALL DEMOLISH EXISTING RECEPTACLE AND PROVIDE NEW, REFER TO NEW ELECTRICAL PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.

E4.1 CONNECT NEW RECEPTACLE TO EXISTING CIRCUIT SERVING THIS SPACE PRIOR TO DEMOLITION. CONTRACTOR SHALL NOT EXCEED 80% BREAKER RATING PER NEC.

E4.4 APPROXIMATE LOCATION OF NEW DRINKING FOUNTAIN REPLACING EXISTING ONE. PROVIDE NEW GFCI ELECTRICAL RECEPTACLE AS SHOWN ON PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED. REFER TO ELECTRICAL FOUNTAIN DETAIL #6/E5.01. PROVIDE REMOTE GFCI TEST BUTTON ADJACENT TO DRINKING FOUNTAIN AT NORMAL RECEPTACLE HEIGHT IN AN ACCESSIBLE LOCATION. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.

E8.1 EXISTING LIGHTING AND LIGHTING CONTROLS IN SPACE SHALL BE REMOVED. EXISTING LIGHTING CIRCUIT SHALL REMAIN AND BE REUSED. REFERENCE NEW PLANS FOR NEW LIGHTING LAYOUTS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

E11.1 PROVIDE NEW LED LIGHTING AND NEW LIGHTING CONTROLS IN THIS SPACE AS SHOWN ON PLANS. RECONNECT TO EXISTING LIGHTING CIRCUIT AND TO NEW CONTROLS. EXTEND CONDUIT/CONDUCTORS AS REQUIRED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

FIRE ALARM KEYED NOTES

FA1.7 ALL EXISTING CEILING MOUNTED FIRE ALARM DEVICES AND PUBLIC ANNOUNCEMENT 'PA' SPEAKER(S) SHALL BE REMOVED AND RELOCATED, REFER TO NEW PLANS FOR NEW LAYOUTS.

FA1.8 PROVIDE RELOCATED CEILING MOUNTED FIRE ALARM DEVICES AND PUBLIC ANNOUNCEMENT 'PA' SPEAKER(S) DEVICES AS SHOWN ON PLANS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

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LEVEL 01 - ELECTRICAL PLANS - ENLARGED

E3.03

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GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

☐ ELECTRICAL KEYED NOTES

☐ FIRE ALARM KEYED NOTES

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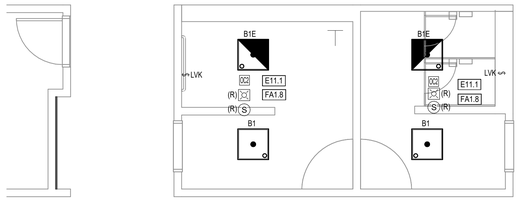

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2 LEVEL 01 - ELECTRICAL LIGHTING PLAN - RR G & B 200

1/4" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

E11.1 PROVIDE NEW LED LIGHTING AND NEW LIGHTING CONTROLS IN THIS SPACE AS SHOWN ON PLANS. RECONNECT TO EXISTING LIGHTING CIRCUIT AND TO NEW CONTROLS. EXTEND CONDUIT/CONDUCTORS AS REQUIRED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

FIRE ALARM KEYED NOTES

FA1.8 PROVIDE RELOCATED CEILING MOUNTED FIRE ALARM DEVICES AND PUBLIC ANNOUNCEMENT 'PA' SPEAKER(S) DEVICES AS SHOWN ON PLANS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

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39-25156-00

LEVEL 01 - ELECTRICAL PLANS - ENLARGED

E3.05

Autodesk Docs://39-25156-00 Alief ISD restrm renov/250076_HEFFLIN EL RESTROOM RENO_MEP24.rvt
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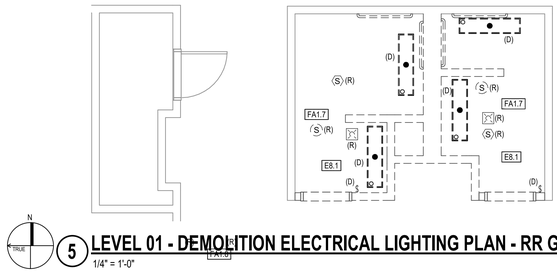
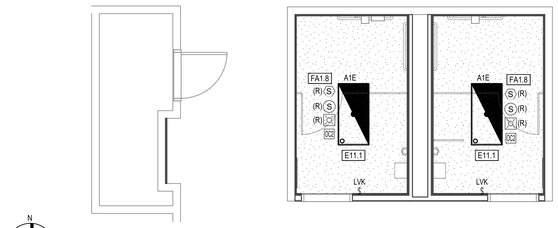


N TRUE

5 LEVEL 01 - DEMOLITION ELECTRICAL LIGHTING PLAN - RR G & B 600

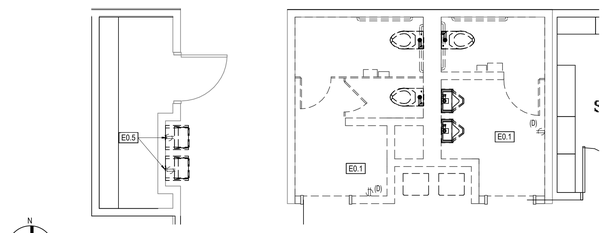
1/4" = 1'-0"



N TRUE

6 LEVEL 01 - ELECTRICAL LIGHTING PLAN - RR G & B 600

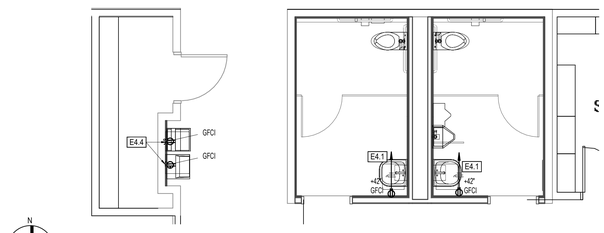
1/4" = 1'-0"



N TRUE

7 LEVEL 01 - DEMOLITION ELECTRICAL POWER PLAN - RR G & B 600

1/4" = 1'-0"



N TRUE

8 LEVEL 01 - ELECTRICAL POWER PLAN - RR G & B 600

1/4" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

E0.1 DEMOLITION SCOPE OF WORK INCLUDES ALL AREAS WITH DEMOLISHED WALLS AND PARTIALLY DEMOLISHED WALLS. REMOVE CONDUCTORS AND CONDUIT BACK TO PANEL. ANY UNDER SLAB CONDUIT MAY BE ABANDONED IN PLACE. FOR ALL DEVICES REMOVED FROM WALLS THAT ARE EXISTING TO REMAIN, CONTRACTOR SHALL PATCH WALLS TO MATCH EXISTING CONDITIONS. COORDINATE WITH ARCHITECT. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

E0.5 EXISTING DRINKING FOUNTAIN BEING DEMOLISHED AND REPLACED WITH NEW. CONTRACTOR SHALL DEMOLISH EXISTING RECEPTACLE AND PROVIDE NEW. REFER TO NEW ELECTRICAL PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.

E4.1 CONNECT NEW RECEPTACLE TO EXISTING CIRCUIT SERVING THIS SPACE PRIOR TO DEMOLITION. CONTRACTOR SHALL NOT EXCEED 80% BREAKER RATING PER NEC.

E4.4 APPROXIMATE LOCATION OF NEW DRINKING FOUNTAIN REPLACING EXISTING ONE. PROVIDE NEW GFCI ELECTRICAL RECEPTACLE AS SHOWN ON PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED. REFER TO ELECTRICAL FOUNTAIN DETAIL #6/E5.01. PROVIDE REMOTE GFCI TEST BUTTON ADJACENT TO DRINKING FOUNTAIN AT NORMAL RECEPTACLE HEIGHT IN AN ACCESSIBLE LOCATION. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.

E8.1 EXISTING LIGHTING AND LIGHTING CONTROLS IN SPACE SHALL BE REMOVED. EXISTING LIGHTING CIRCUIT SHALL REMAIN AND BE REUSED. REFERENCE NEW PLANS FOR NEW LIGHTING LAYOUTS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

E11.1 PROVIDE NEW LED LIGHTING AND NEW LIGHTING CONTROLS IN THIS SPACE AS SHOWN ON PLANS. RECONNECT TO EXISTING LIGHTING CIRCUIT AND TO NEW CONTROLS. EXTEND CONDUIT/CONDUCTORS AS REQUIRED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

FIRE ALARM KEYED NOTES

FA1.7 ALL EXISTING CEILING MOUNTED FIRE ALARM DEVICES AND PUBLIC ANNOUNCEMENT 'PA' SPEAKER(S) SHALL BE REMOVED AND RELOCATED. REFER TO NEW PLANS FOR NEW LAYOUTS.

FA1.8 PROVIDE RELOCATED CEILING MOUNTED FIRE ALARM DEVICES AND PUBLIC ANNOUNCEMENT 'PA' SPEAKER(S) DEVICES AS SHOWN ON PLANS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

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LEVEL 01 - ELECTRICAL PLANS - ENLARGED

E3.06

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GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

☐ ELECTRICAL KEYED NOTES

☐ ELECTRICAL KEYED NOTES

☐ FIRE ALARM KEYED NOTES

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LEVEL 01 - ELECTRICAL PLANS - ENLARGED

E3.07

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	MOUNTING	LAMPS	VOLTAGE	WATTAGE	DESCRIPTION
A1	DAYBRITE	2FPZ-48L-835-4-DS-UNV-DIM-FSK24	RECESSED	3500K LED	277 V	37 VA	2X4 LED FLAT PANEL WITH 4800 LUMENS AND 0-10V DIMMING.
A1E	DAYBRITE	2FPZ-48L-835-4-DS-UNV-DIM-FSK24	RECESSED	3500K LED	277 V	37 VA	2X4 LED FLAT PANEL WITH 4800 LUMENS AND 0-10V DIMMING. PROVIDE 90 MINUTE BATTERY BACKUP.
B1	DAYBRITE	2FPZ-45L-835-2-DS-UNV-DIM-FSK22	RECESSED	3500K LED	277 V	36 VA	2X2 LED FLAT PANEL WITH 4500 LUMENS AND 0-10V DIMMING.
B1E	DAYBRITE	2FPZ-45L-835-2-DS-UNV-DIM-FSK22	RECESSED	3500K LED	277 V	36 VA	2X2 LED FLAT PANEL WITH 4500 LUMENS AND 0-10V DIMMING. PROVIDE 90 MINUTE BATTERY BACKUP.

NOTES:
1. LIGHTING FIXTURE CATALOG NUMBERS AND DESCRIPTIONS ARE SCHEDULED FOR ESTABLISHING QUALITY, APPEARANCE AND PERFORMANCE OF THE FIXTURES AS REQUIRED BY THE DESIGN. EXACT CATALOG NUMBERS DESCRIBING MOUNTING CONDITIONS, FINISHES AND REQUIREMENTS RELATED TO TRIMS AND LENS FOR ALL FIXTURES SHALL BE CONFIRMED (BY THE CONTRACTOR) WITH THE ROOM FINISH SCHEDULE AND REFLECTED CEILING PLANS, INCLUDING GRID TYPES, ON THE ARCHITECTURAL DRAWINGS PRIOR TO BIDDING. FIXTURES SHALL BE SUBMITTED ACCORDING TO THE CONDITIONS INDICATED ON THE ARCHITECTURAL PLANS. REFER TO THE WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. THE NEW LIGHT FIXTURES SCHEDULED ARE THE BASIS OF DESIGN. IT IS NOT INTENDED TO LIMIT COMPETITION FROM EQUAL MANUFACTURERS. ALL BIDDERS SHALL SUBMIT THEIR PROPOSED LIGHT FIXTURES IN SUBMITTAL FORM A MINIMUM OF 10 BUSINESS DAYS PRIOR TO BID DATE FOR REVIEW. APPROVED LIGHT FIXTURES WILL BE ISSUED IN AN ADDENDUM.

LIGHTING CONTROLS DEVICE SCHEDULE

TYPE	DESCRIPTION	COMMENTS
S S^3 S^4 S^K	LINE VOLTAGE SWITCH.	'3' INDICATES THREE WAY SWITCHING. '4' INDICATES FOUR WAY SWITCHING. 'K' INDICATES SWITCH SHALL BE KEYED SWITCH.
S^{OC1}	LINE VOLTAGE WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR	SENSOR SHALL BE SET TO VACANCY MODE
S^{OC2}	LINE VOLTAGE WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DUAL RELAYS.	SENSOR SHALL BE SET TO VACANCY MODE. ONE RELAY SHALL SERVE 120 VOLT LIGHTING IN AREA INDICATED, AND ONE RELAY SHALL SERVE 277 VOLT LIGHTING.
S^{OCD}	LOW VOLTAGE OC SENSOR SWITCH WITH 0-10V DIMMER	SENSOR SHALL BE SET TO VACANCY MODE
S^{LV} S^{LVK}	LOW VOLTAGE MANUAL CONTROL.	CONNECT TO POWER PACK OR ROOM CONTROLLER IF OCCUPANCY SENSORS ARE INDICATED ON PLAN. PROVIDE MULTI-BUTTON SWITCH AS REQUIRED PER SWITCH LEGS SHOWN ON PLANS. 'K' INDICATES SWITCH SHALL BE KEYED SWITCH.
S^{D}	LOW VOLTAGE SWITCH WITH 0-10V DIMMER	PROVIDE MULTI-BUTTON SWITCH AS REQUIRED PER SWITCH LEGS SHOWN ON PLANS. PROVIDE POWER PACKS OR ROOM CONTROLLERS AS REQUIRED.
OC1	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO VACANCY MODE. PROVIDE POWER PACKS AS NEEDED.
OC2	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO OCCUPANCY MODE. PROVIDE POWER PACKS AS REQUIRED.

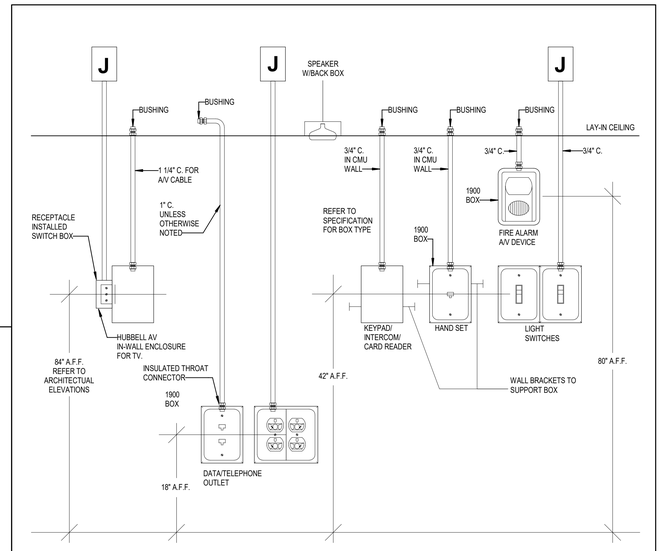
NOTES:
1. WATTSTOPPER IS THE BASIS OF DESIGN.
2. THE LIGHTING CONTROLS SCHEDULED ARE THE BASIS OF DESIGN. IT IS NOT INTENDED TO LIMIT COMPETITION FROM EQUAL MANUFACTURERS. ALL BIDDERS SHALL SUBMIT THEIR PROPOSED LIGHTING CONTROLS IN SUBMITTAL FORM A MINIMUM OF 10 BUSINESS DAYS PRIOR TO BID DATE FOR REVIEW. APPROVED LIGHTING CONTROL SYSTEMS WILL BE ISSUED IN AN ADDENDUM.
3. BASIS OF DESIGN SHALL BE A HARD-WIRED TYPE SYSTEM, UNLESS NOTED OTHERWISE.

2021 STANDARD SEQUENCE OF OPERATIONS

ROOM TYPE	AUTO ON1	MANUAL ON (VACANCY)	AUTO OFF (20MIN MAX)	PARTIAL OFF AT NORMAL HOURS2	AUTO OFF AFTER HOURS (20MIN MAX)	TIME ON	TIME OFF	ASTRONOMIC or PHOTOCELL ON/OFF	AUTO STEP CONTROL WITH OFF4	AUTO CONTINUOUS DIM WITH OFF4, 5	MANUAL BI-LEVEL REDUCTION CONTROL6	MANUAL CONTINUOUS DIM CONTROL	MANUAL ON/OFF SWITCH	MANUAL DIMMER SWITCH	DISPLAY, ACCENT, TASK CONTROL7	AUTOMATIC RECEPTACLE CONTROL	SEQUENCE OF OPERATION
	OCCUPANCY SENSOR					TIME SWITCH			DAYLIGHT CTL		LT REDUCT		MANUAL CONTROL				v1 - 03192022
Spaces (≤ 300 sq ft)	50%		20 min							D	●	D	●	D			Auto On 50%; Occupancy sensor Auto Off; Manual control and ≥50% light reduction with two on/off controls; Where >150W in daylight area, use continuous dimming daylighting control and dimmer switch.
Janitor Closet		●	20 min										●				Manual On; Occupancy sensor Auto Off. Manual control device.
Restroom	100%		20 min										●				Auto On 100%. Occupancy sensor Auto Off. Manual control.

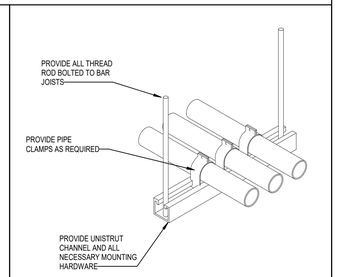
●▣ Designation for code compliant default control design for spaces without daylighting control
D = Where daylighting control is required, "D" designation indicates controls required in the space for code compliance design
CK = Captive Key Switch system for use in Hotel/Motel and Guest Suites

NOTES: 1 May be Manual On or Auto On to ≤50%. Full Auto On only permitted in Corridors, Interior Parking, Stairways, Lobbies, Restrooms, Open Office, Library Stacks, Locker Rooms.
2 Partial Auto Off must reduce lighting by ≥50% during normal operating hours in corridors, warehouse aisles and open areas. Each aisle must be independently controlled. Full Auto Off complies with Partial Auto Off.
3 Exterior / Parking / Site lighting must Auto Off during daylight hours, reduce by at least 50% between midnight and 6AM or from one hour after business closing until 6AM before business opening.
4 Automatic daylight control required where >150W lighting power in skylight or sidelight daylight area. Continuous dimming with Off. Assumes 0-10V dimmable fixtures in daylight and non-daylight area unless otherwise specified.
5 Code requires automatic continuous dimming with full Off capability in daylighting areas of all space types.
6 Manual bilevel lighting reduction control must allow ≥50% of the general lighting to be manually turned off by a control device located in the space.
7 Display, Accent and Task lighting must have manual control independent from general lighting. Auto Off with occupancy sensors or time switch control required. Exempt from automatic daylighting control.



NOTE: COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.

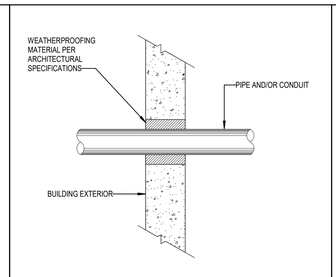
1 TYPICAL DEVICE ELEVATIONS E1001



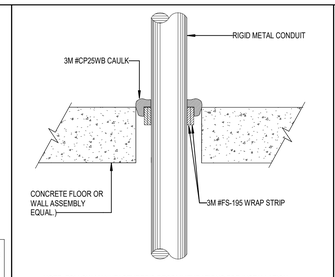
2 UNISTRUT CONDUIT E1003

NOTE: FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION

3 2 HR. GYPSUM WALLBOARD PIPE PENETRATION E1007

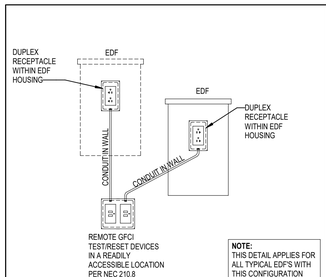


4 PIPE AND/OR CONDUIT PENETRATION E1016



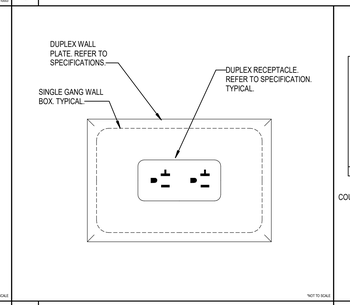
NOTE: FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.

5 2, 3 AND 4 HR. PENETRATIONS FOR CONCRETE E1015



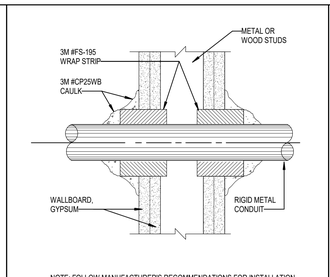
NOTE: THIS DETAIL APPLIES FOR ALL TYPICAL EDF'S WITH THIS CONFIGURATION

6 ELEC. DRINKING FOUNTAIN E1008

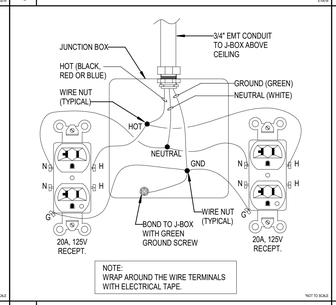


8 HORIZONTAL RECEPTACLE MOUNTING E1004

9 TYPICAL RECEPTACLE MOUNTING E1005

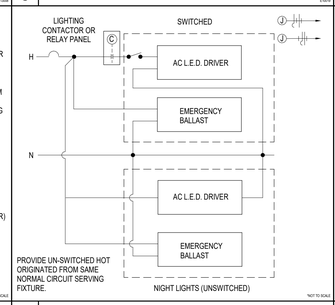


10 BACK - TO - BACK OUTLETS E1002

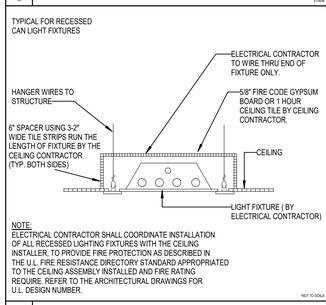


NOTE: WRAP AROUND THE WIRE TERMINALS WITH ELECTRICAL TAPE.

11 20A, 125V RECEPTACLE WIRING E1020

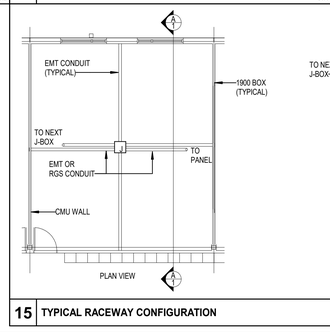


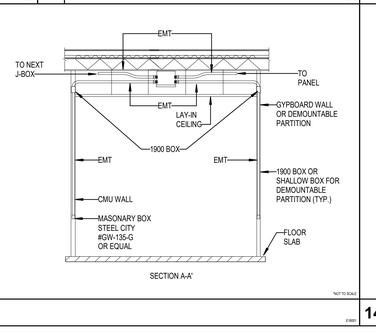
12 EMERGENCY BATTERY WIRING E1009



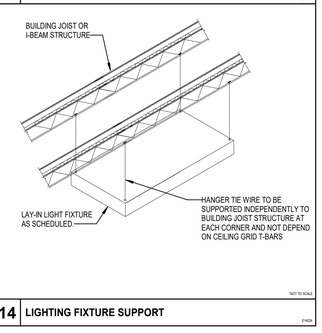
NOTE:
ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL RECESSED LIGHTING FIXTURES WITH THE CEILING INSTALLER, TO PROVIDE FIRE PROTECTION AS DESCRIBED IN THE U.L. FIRE RESISTANCE DIRECTORY STANDARD APPROPRIATED TO THE CEILING ASSEMBLY INSTALLED AND FIRE RATING REQUIRE. REFER TO THE ARCHITECTURAL DRAWINGS FOR U.L. DESIGN NUMBER.

13 FIRE RATED LIGHT FIXTURE E1007





15 TYPICAL RACEWAY CONFIGURATION E1001



14 LIGHTING FIXTURE SUPPORT E1004

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ELECTRICAL SCHEDULES & DETAILS

E5.01

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Panelboard HC

65000 A AIC Rating
New
X Existing

480/277 Wye Volt, 3 Phase, 4 Wire | 1 Section | Type 1 -Nema Rating | Mains Type: MLO | 0 A -- -- | 100 A BUS (Copper) | -- | LUGS: SINGLE -- | Mounting Stye: SURFACE

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
1	1000 VA	--	EXISTING LOAD	12	20 A	1 2	20 A	12	EXISTING LOAD	--	1000 VA	1
1	1000 VA	--	EXISTING LOAD	12	20 A	3 4	20 A	12	EXISTING LOAD	--	1000 VA	1
1	1000 VA	--	EXISTING LOAD	12	20 A	5 6	20 A	12	EXISTING LOAD	--	1000 VA	1
1	1000 VA	--	EXISTING LOAD	12	20 A	7 8	20 A	12	EXISTING LOAD	--	1000 VA	1
1	1000 VA	--	EXISTING LOAD	12	20 A	9 10	20 A	12	EXISTING LOAD	--	1000 VA	1
						11 12						
2	0 VA	--	Spare	8	35 A	13 14	50 A	8	(E)T-2	SP	0 VA	1
						15 16						
						17 18						
2	0 VA	--	Spare	12	20 A	19 20	15 A	12	EWH-2	WH	3000 VA	3
						21 22						
	0 VA	--	Space	12	--	23 24	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	25 26	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	27 28	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	29 30	--	12	Space	--	0 VA	

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.47	(R)Receptacle				210.20A	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.	3000 VA	100.00%	3000 VA
220.60	(F)Fans				220.50	(MT)Lrg. Motor			
	(M)Misc.					(SP)Sub Pnl.			
					630.11B	(W) Welders			

Total Connected Load: 13000 VA VA = 16 A
Total Load (Diversified): 13000 VA VA = 16 A
Location of Panel:

Panelboard LF

10000 A AIC Rating
New
X Existing

120/208 Wye Volt, 3 Phase, 4 Wire | 1 Section | Type 1 -Nema Rating | Mains Type: MCB | 200 A MCB -- | 250 A BUS (Copper) | -- | LUGS: -- -- | Mounting Stye: SURFACE

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
1	500 VA	--	EXISTING LOAD	12	20 A	1 2						
1	500 VA	--	EXISTING LOAD	12	20 A	3 4	20 A	12	EXISTING LOAD	--	4323 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	5 6						
1	500 VA	--	EXISTING LOAD	12	20 A	7 8						
						9 10	20 A	12	EXISTING LOAD	--	4323 VA	1
1	4323 VA	--	EXISTING LOAD	12	20 A	11 12						
						13 14						
2	0 VA	--	Spare	12	20 A	15 16	20 A	12	EXISTING LOAD	--	4323 VA	1
3	85 VA	WH	CP-2	12	20 A	17 18						
	0 VA	--	Space	12	--	19 20	20 A	12	EXISTING LOAD	--	500 VA	1
	0 VA	--	Space	12	--	21 22	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	23 24	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	25 26	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	27 28	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	29 30	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	31 32	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	33 34	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	35 36	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	37 38						
	0 VA	--	Space	12	--	39 40	35 A	8	EXISTING LOAD	--	7563 VA	1
	0 VA	--	Space	12	--	41 42						

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.47	(R)Receptacle				210.20A	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.	85 VA	100.00%	85 VA
220.60	(F)Fans				220.50	(MT)Lrg. Motor			
	(M)Misc.					(SP)Sub Pnl.			
					630.11B	(W) Welders			

Total Connected Load: 27440 VA VA = 76 A
Total Load (Diversified): 27440 VA VA = 76 A
Location of Panel:

GENERAL ELECTRICAL NOTE:

A. ALL CIRCUITS ON EXISTING PANELS ARE EXISTING CIRCUIT/BREAKERS TO REMAIN UNLESS NOTED OTHERWISE BY KEYED NOTE.

B. ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE SCHEDULED.

C. CONTRACTOR SHALL REFER TO PROJECT SPECIFICATIONS FOR SPARE CONDUITS TO BE PROVIDED PER PANEL

D. ALL PANEL SCHEDULES SHALL BE UPDATED WITH NEW DIRECTORIES. ANY EXISTING CIRCUITS TO REMAIN SHALL BE CIRCUIT TRACED AND LABELING UPDATED ACCORDINGLY WITH ROOM NAMES, NUMBERS, DEVICE/EQUIPMENT TYPE. ROOM NAMING AND NUMBERING SHALL BE BASED ON THE FINAL ROOMNAMING AND NUMBERING IDENTIFIED BY THE ARCHITECT AND OWNER. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION AND ADDITIONAL DIRECTORY REQUIREMENTS.

PANEL SCHEUDULE KEYED NOTES:

1. EXISTING BRANCH CIRCUIT TO REMAIN. CONTRACTOR SHALL CIRCUIT TRACE AND FIELD VERIFY THE EXISTING LOAD CIRCUIT. UPDATE THE PANEL DIRECTORY WITH THE DEVICE/EQUIPMENT TYPE, ROOM NUMBER, ROOM NAME, ETC. REFERENCE SPECIFICATIONS AND GENERAL NOTES FOR ADDITIONAL INFORMATION. ANY EXISTING CIRCUITS DETERMINED TO BE SPARES, SHALL BE FLIPPED TO THE OFF POSITION AND PANEL DIRECTORY UPDATED ACCORDINGLY. CONTRACTOR SHALL FIELD VERIFY.
2. EXISTING BREAKER IN THE PANEL SHALL REMAIN AS SPARE, FLIPPED TO THE OFF POSITION AND LABELED ON THE NEW PANEL DIRECTORY AS A SPARE BREAKER. CONTRACTOR SHAL FIELD VERIFY.
3. REUSE EXISTING PANEL SPACE FOR NEW CIRCUITING AND NEW BREAKER. CONTRACTOR SHALL FIELD VERIFY EXISTING CIRCUITING/EQUIPMENT THAT IS EXISTING TO REMAIN PRIOR TO UTILIZING PANEL SPACE. EQUIPMENT/CIRCUITS DETERMINED TO BE EXISTING TO REMAIN DURING FIELD VERIFICATION SHALL REMAIN IN PLACE AS REQUIRED.
4. REUSE EXISTING BREAKER FOR NEW ELECTRICL CIRCUIT. CONTRACTOR SHALL FIELD VERIFY.

Load Analysis - Heflin ES

480 / 277 , 3 -PHASE, 4 -WIRE — Date: 5/6/2025

DESCRIPTION						NEC	KVA
EXISTING LOAD:							
PEAK KVA FROM CPE =	376,000	VA	X	125%		220.87	470.0
REMOVED LOAD:							
LIGHTING:							
INTERIOR =	2,398	VA				220.12	-2.4
ADDED LOAD:							
LIGHTING:							
INTERIOR =	1,199	VA	X	125%	= 0.01 W/SF	220.12	1.5
PLUMBING:							
EWH'S =	3,000	VA	X	100%			3.0
CIRCULATION PUMPS =	85	VA					0.1
						TOTAL =	472.2
SQ. FOOTAGE = 90,940						TOTAL AMPS:	568.0
						SERVICE SIZE:	1200.0
						SPARE AMPACITY:	632.0

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HOUSTON, TX 77082

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39-25156-00

ELECTRICAL SCHEDULES

E5.02

(NOT ALL ITEMS INDICATED APPLY TO THIS PROJECT)

ABBREVIATIONS

A

A	AIR (COMPRESSED)
AC	AIR COMPRESSOR
AD	AIR DRYER
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AUX	AUXILIARY
AV	ACID VENT
AVV	AIR ADMITTANCE VALVE
AW	ACID WASTE

B

B	BOILER
BF	BOTTLE FILLER
BFF	BELOW FINISH FLOOR
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BT	BATH TUB
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACK WATER VALVE

C

C	CELSIUS
CAB	CABINET
CB	CATCH BASIN
CD	CONDENSATE DRAIN LINE
CI	CAST IRON
CIRC	CIRCULATING
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CMU	CONCRETE MASONRY UNIT
CL	CENTERLINE
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE, CONCENTRIC
CONN	CONNECTION
CP	CIRCULATING PUMP, CHROME PLATE
CPI	CAST IRON PIPE INSTITUTE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CTE	CONNECT TO EXISTING
CW	COLD WATER

D

DBP	DOMESTIC BOOSTER PUMP
DC	DOWNSPOUT COVER
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN, DOWNSPOUT NOZZLE
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING

E

ECC	ECCENTRIC
EDF	ELECTRIC DRINKING FOUNTAIN
EL OR ELVA	ELEVATION
ES	EMERGENCY SHOWER
ESP	ELEVATOR SUMP PUMP
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EW	EYE WASH
EWH	ELECTRIC WATER HEATER

F

F	FARENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FCV	FLOOR CONTROL VALVE
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FEC	FIRE EXSTINGUISHER CABINET
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FIXT	FIXTURE
FL	FLOW LINES
FLEX	FLEXIBLE
FLR	FLOOR
FP	FIRE PUMP
FS	FLOW SWITCH, FIRE SPRINKLER
	FLOOR SINK
FT	FOOT, FEET
FW	FORCE WASTE, FILTER WATER

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GD	GARBAGE DISPOSAL
GI	GREASE INTERCEPTOR
GL	GLOBE VALVE
GPD	GALLONS PER DAY
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GT	GREASE TRAP
GV	GATE VALVE, GREASE VENT
GW	GREASE WASTE
GWH	GAS WATER HEATER

H

HB	HOSE BIBB
HC	HANDICAPPED
HD	HEAD, HUB DRAIN
HKP	HOUSEKEEPING PAD
HP	HORSEPOWER
HR	HOSE REEL
HSC	HORIZONTAL SPLIT CASE
HT	HEIGHT
HTR	HEATER
HW	HOT WATER
HWR	HOT WATER RETURN
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INSUL	INSULATION
IW	INDIRECT WASTE
IWH	INSTANTANEUOS WATER HEATER

J

JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPTMENT CONTRACTOR
KVA	KILOVOLT- AMPS
KW	KILOWATT

L

L	LENGTH, LAVATORY
LAV	LAVATORY
LF	LINEAR FEET
LP	LOW PRESSURE
LPG	LIQUEFIED PETROLEUM GAS
LT	LINT, LINT TRAP
LVL	LEVEL

M

MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MS	MOP SINK
MSB	MOP SERVICE BASIN
MTD	MOUNTED
MUW	MAKE-UP WATER

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE

O

O	MEDICAL OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OS&Y	OPEN STEM AND YOLK

P

PC	PLUMBING CONTRACTOR
PH	PHASE
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PNL	PANEL
POU	POINT-OF-USE
PP	POLYPROPYLENE
PPM	PART PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
PVDF	POLYVINYL IDENE FLUORIDE

Q

QTY	QUANTITY

R

RCP	REFLECTED CEILING PLAN, REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE	REFERENCE,REFER
RECIRC	RECIRCULATE
REFR	REFRIGERATOR
RH	ROOF HYDRANT
RM	ROOM
RO	REVERSE OSMOSIS
RPBF	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

SA	SHOOK ABSORBER
SC	SCHEDULE
SD	STORM DRAIN, SANITARY DRAIN
SEC	SECONDARY
SECT	SECTION
SF	SQUARE FEET
SH	SHOWER
SHI	SOLID HAIR INTERCEPTOR
SI	SOLIDS INTERCEPTOR
SIM	SIMILAR
SK	SINK
SOS	SAND OIL SEPERATOR
SOV	SHUT-OFF VALVE
SP	SUMP PUMP, STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	SERVICE SINK, SOIL STACK, STAINLESS STEEL
SSD	SUBSURFACE DRAIN
STD	STANDARD
STL	STEEL
STR	STRAINER
SV	SANITARY VENT
SW	SOFT WATER

T

TCO	TRAFFIC CLEANOUT
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TDL	TOTAL DEVELOPED LENGTH
TLT	TOILET
TMV	THERMOSTATIC MIXING VALVE
TOB	TOP OF BEAM
TOF	TOP OF FOOTER
TP	TRAP PRIMER
TPD	TRAP PRIMER DEVICE
TS	TAMPER SWITCH
TYP	TYPICAL

U

U	URINAL
UF	UNDERFLOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
US	UNDERSLAB

V

V	VOLT, VENT
VAC	VACUUM(MEDICAL)
VB	VALVE BOX, VACUUM BREAKER
VFD	VARIABLE FREQUENCY DRIVE
VP	VACUUM PUMP
VS	VENT STACK
VTR	VENT THRU ROOF

W

W	WATT, WASTE, WIDTH, WASHER
W/	WITH
W/O	WITHOUT
WADG	WASTE ANESTHETIC GAS DISPOSAL
WB	WALL BOX
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WM	WATER METER
WMB	WASHER MACHINE BOX
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WS	WATER SOFTENER, WASTE STACK
WSFU	WATER SUPPLY FIXTURE UNIT
WT	WATERTIGHT, WEIGHT

Y

YCO	YARD CLEANOUT
YH	YARD HYDRANT

Z

Z	ZONE

SYMBOLS

PLUMBING SYSTEMS

- SANITARY DRAIN BELOW FLOOR
- S(E) — EXISTING SOIL OR WASTE PIPING B.G. - S(E)
- SANITARY DRAIN ABOVE FLOOR
- S(E) — EXISTING SOIL OR WASTE PIPING A.G. - S(E)
- PIPE DEMO
- SANITARY VENT
- EXISTING VENT PIPING
- GW — GREASE WASTE(ABOVE CEILING)
- GW — GREASE WASTE(BELOW FLOOR)
- SD — STORM DRAIN(ABOVE CEILING)
- SD — STORM DRAIN(BELOW FLOOR)
- OD — OVERFLOW DRAIN(ABOVE CEILING)
- OD — OVERFLOW DRAIN(BELOW FLOOR)
- AW — ACID WASTE(ABOVE CEILING)
- AW(E) — EXISTING ACID WASTE PIPING A.G. - AW(E)
- AW — ACID WASTE(BELOW FLOOR)
- AW(E) — EXISTING ACID WASTE PIPING B.G. - AW(E)
- AV — ACID VENT(ABOVE CEILING OR BELOW FLOOR)
- AV(E) — EXISTING ACID VENT PIPING - AV(E)
- NP-CW — NON-POTABLE - COLD WATER
- COLD WATER - CW
- CW(E) — EXISTING DOMESTIC COLD WATER - CW(E)
- HOT WATER - HW
- HW(E) — EXISTING DOMESTIC HOT WATER - HW(E)
- HOT WATER RECIRCULATION
- HWR(E) — EXISTING DOMESTIC HOT WATER RETURN - HWR(E)
- G (4oz) — NATURAL GAS (LOW PRESSURE)
- G (2 PSI) — NATURAL GAS (MEDIUM PRESSURE)
- G (5 PSI) — NATURAL GAS (HIGH PRESSURE)
- T — TEMPERED WATER
- A — COMPRESSED AIR
- MA — MEDICAL AIR
- O — MEDICAL OXYGEN
- MV — MEDICAL VACUUM
- F — FIRE STANDPIPE, FIRE LINE
- FS — WET AUTOMATIC FIRE SPRINKLER
- FW — FORCE WASTE
- TP — TRAP PRIMER
- D — DRAIN LINE
- SW — SOFT WATER
- LT — LINT WASTE
- LP — LIQUIFIED PETROLEUM GAS
- N — NITROGEN
- N2O — NITROUS OXIDE
- IA — INSTRUMENT AIR
- WAGD — WASTE ANESTHETIC GAS DISPOSAL

PIPING FITTINGS

- CAP ON END OF PIPE
- ELBOW UP
- ELBOW DOWN
- VALVE IN DROP
- VALVE IN RISE
- DIRECTION OF FLOW
- DIRECTION OF SLOPE DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- TEE OUTLET UP
- TEE OUTLET DOWN
- UNION
- FLANGE
- STRAINER WITH BLOWDOWN VALVE
- GATE VALVE, HVAC BALANCING/STOP VALVE
- GLOBE VALVE
- BALL VALVE
- BALANCING VALVE WITH DIFFERENTIAL PRESSURE TAPS
- OS&Y VALVE
- CHECK VALVE
- BUTTERFLY VALVE
- TWO-WAY MODULATING CONTROL VALVE
- THREE-WAY MODULATING CONTROL VALVE
- SOLENOID VALVE
- PRESSURE REDUCING VALVE
- GAS REGULATOR
- GAS COCK
- SPRINKLER FLOOR CONTROL STATION
- MANUAL AIR VENT
- AUTOMATIC AIR VENT
- T&P RELIEF VALVE
- LINE CLEANOUT/ WALL CLEANOUT
- FLOOR CLEANOUT
- GRADE CLEANOUT
- PRESSURE GAUGE WITH GAUGE COCK
- THERMOMETER
- FLOW VENTURI
- VACUUM BREAKER
- VACUUM RELIEF VALVE
- BACKFLOW PREVENTOR
- CIRCULATING PUMP
- WATER SUB-METER
- LOCAL ALARM
- MASTER ALARM
- AREA ALARM

MISCELLANEOUS

- DRAIN(TYPE AND SIZE AS NOTED ON PLANS)
- ROOF DRAIN OR OVERFLOW DRAIN
- ROOF DRAIN OR OVERFLOW DRAIN(FROM ABOVE)
- HOSE BIBB
- WALL HYDRANT
- PLUMBING FIXTURES
- EXISTING PLUMBING FIXTURES
- POINT OF NEW CONNECTION TO EXISTING PIPING
- P.X.X — PLUMBING DRAWING NOTE REFERENCE
- 2 / P2.1 — DETAIL NUMBER OR PLAN / SHEET WHERE DETAIL OR PLAN IS SHOWN
- FS — FLOW SWITCH
- TS — TAMPER SWITCH
- ACCESS PANEL (AP)
- FIRE DEPARTMENT SIAMESE CONNECTION(WALL MOUNTED)
- FIRE DEPARTMENT SIAMESE CONNECTION(FREE STANDING)
- 2 / P7.1 — PLUMBING RISER DIAGRAM NUMBER / SHEET WHERE PLUMBING RISER DIAGRAM IS SHOWN

PLUMBING CODES

2021 UNIFORM PLUMBING CODE
2021 EXISTING BUILDING CODE

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PLUMBING SYMBOL LEGEND

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DEMOLITION NOTES:

1. FIELD VERIFY AS NECESSARY THE EXACT LOCATIONS/ROUTING/SIZES OF PLUMBING FIXTURES, PIPING, AND EQUIPMENT TO BE REMOVED OR RE-USED. REFER TO ARCHITECTURAL DRAWINGS FOR CLARIFICATION AS REQUIRED.
2. ALL PLUMBING FIXTURES/EQUIPMENT NOT SPECIFICALLY IDENTIFIED FOR REMOVAL SHALL REMAIN. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES/CONFLICTS FOUND IN THE FIELD.
3. UNLESS NOTED OTHERWISE, WHERE FIXTURES ARE TO BE REMOVED: REMOVE FIXTURE, CARRIER, FAUCET/FLUSH VALVE, SUPPLIES/STOPS, TUBULAR BRASS, AND ASSOCIATED PIPING AS DESCRIBED.
4. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS, WHERE EACH NEW WALL HUNG FIXTURE WILL BE PROVIDED AND WHERE EACH EXISTING WALL HUNG FIXTURE WILL BE RE-INSTALLED, A NEW CORRESPONDING FIXTURE CARRIER SHALL ALSO BE PROVIDED. THIS REQUIREMENT SHALL APPLY TO ONE-FOR-ONE FIXTURE REPLACEMENTS AND ALL ADJUSTMENTS TO WALL HUNG FIXTURE LOCATIONS AND FIXTURE HEIGHTS. ALL WORK ASSOCIATED WITH PROVIDING SUCH CARRIERS SHALL BE INCLUDED IN THE PROJECT SCOPE WITH NO EXCEPTIONS.
5. ALL PLUMBING FIXTURES AND/OR EQUIPMENT REMOVED SHALL BE SUBMITTED TO THE OWNER WITH THE OPTION TO BE REUSED, WHICH SHALL BE SOLELY AT THE DISCRETION OF THE OWNER. ITEMS THE OWNER DOES NOT WISH TO REUSE BUT WISHES TO RETAIN SHALL BE DELIVERED TO STORAGE AS DIRECTED. ITEMS THE OWNER DOES NOT WISH TO REUSE OR RETAIN SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF LEGALLY.
6. REMOVE ALL PIPING FROM ABOVE FLOOR TO BELOW ROOF/FLOOR ABOVE WHICH WAS PREVIOUSLY ABANDONED OR WHICH SERVES PLUMBING FIXTURES DESIGNATED FOR REMOVAL, UNLESS NEW FIXTURES ARE TO BE INSTALLED IN THOSE LOCATIONS - REFER TO PLUMBING FLOOR PLANS. PRIOR TO ANY REMOVAL, FIELD VERIFY THAT LINES TO BE REMOVED DO NOT SERVE ANY FIXTURES TO REMAIN. CAP REMOVED BRANCH LINES AS CLOSE AS POSSIBLE TO EXISTING MAINS TO REMAIN.
7. WHERE SLAB ON GRADE FLOOR DRAINS OR SIMILAR INSTALLATIONS ARE TO BE REMOVED, THE STRAINER AND DRAIN BODY SHALL BE REMOVED. PLUG THE WASTE PIPE WATERTIGHT BELOW FINISHED FLOOR. PATCH AND REFINISH THE FLOOR TO MATCH EXISTING.
8. AT PLUMBING WASTE/VENT PIPE PENETRATIONS THROUGH SLAB ON GRADE NO LONGER REQUIRED, PLUG THE PIPES WATERTIGHT BELOW FINISHED FLOOR. PATCH AND REFINISH THE FLOOR TO MATCH EXISTING.
9. WHERE BURIED WASTE/VENT BRANCH LINES ARE PLUGGED AND ABANDONED IN PLACE, THE ABANDONED LINES SHALL REMAIN OTHERWISE SERVICEABLE AND THE REMAINING PIPING SYSTEM SHALL REMAIN INTACT AND FUNCTIONAL.
10. WHERE FIXTURES ARE REMOVED, NO NEW FIXTURES ARE TO BE INSTALLED, AND EXISTING VENTS THROUGH ROOF ARE NO LONGER REQUIRED, VENT TERMINALS ARE TO BE COMPLETELY REMOVED UNLESS NOTED OTHERWISE. THE ROOF SHALL BE REPAIRED AND SEALED WATERTIGHT TO MATCH THE EXISTING ROOF SYSTEM.
11. IN THE COURSE OF DEMOLITION, ANY PIPING TO REMAIN THAT IS EXPOSED AND FOUND TO BE UNLABELED SHALL BE IDENTIFIED AND LABELED ACCORDINGLY. PROVIDE PIPE MARKERS TO INDICATE TYPE OF SERVICE AND DIRECTION OF FLOW.
12. IN THE COURSE OF DEMOLITION, THE CONTRACTOR SHALL ASSIST THE OWNER BY BRINGING TO THE DESIGN TEAM'S ATTENTION ANY EXISTING PLUMBING RELATED ITEMS INTENDED TO REMAIN BUT WHICH ARE FOUND TO BE UNFIT FOR SERVICE OR IN NEED OF REPAIR. THIS SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, THE FOLLOWING: LEAKING OR DETERIORATED PIPING AND VALVES; IMPROPERLY SLOPED/SUPPORTED OR SAGGING PIPE; MISSING, DAMAGED, OR DETERIORATED INSULATION; CODE REQUIRED BUT MISSING BACKFLOW PREVENTION MEASURES; FIXTURES, FLUSH VALVES, FAUCETS, EQUIPMENT, AND APPURTENANCES NOT FUNCTIONING AS INTENDED.
13. IN THE COURSE OF DEMOLITION, THE CONTRACTOR SHALL ASSIST THE OWNER BY BRINGING TO THE DESIGN TEAM'S ATTENTION ANY EXISTING NON-PLENUM RATED PIPING (PVC, ETC.) INTENDED TO REMAIN WHICH IS FOUND IN A RETURN AIR PLENUM SPACE. UNLESS DEEMED UNACCEPTABLE BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) OR OWNER, ALL SUCH PIPING SHALL BE WRAPPED WITH FIRE RESISTANT INSULATION. 3M FIRE BARRIER PLENUM WRAP 5A OR PRE-APPROVED EQUAL THAT HAS BEEN TESTING IN ACCORDANCE WITH ASTM E84 AND UL 910. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDED METHODS.

FIXTURES NOTES

1. DO NOT ROUGH-IN UNDERGROUND PIPING OR ANY OTHER CONNECTIONS FOR FIXTURES FROM THE PLUMBING DRAWINGS. REFER TO LATEST ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DIMENSIONED LOCATIONS. COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH THE LATEST ARCHITECTURAL DRAWINGS, SPECIFICATIONS, AND MANUFACTURER RECOMMENDATIONS PRIOR TO ANY ROUGH-INS.
2. CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS AND DIMENSIONS OF FINISHED FLOORS AND WALLS. TRUE ALL DRAINS, ROUGH-INS AND CARRIERS IN ACCORDANCE WITH THE PROPOSED ELEVATIONS AND FINISHED SURFACES.
3. THE MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG AND COUNTER MOUNTED FIXTURES SHALL BE COORDINATED WITH THE LATEST ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-IN WORK.
4. PROVIDE LABOR AND MATERIALS AS REQUIRED TO MAKE FINAL CONNECTIONS TO ALL PLUMBING FIXTURES, EQUIPMENT, AND RELATED ITEMS FURNISHED UNDER SEPARATE DIVISIONS. INSTALL ASSOCIATED TRIM AND COMPONENT ACCESSORIES FURNISHED UNDER SEPARATE DIVISIONS.
5. CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF ACTUAL EQUIPMENT TO BE SUPPLIED FOR THE FINAL COORDINATION OF ALL ROUGH-INS BEFORE BEGINNING WORK.
6. ALL FIXTURE AND EQUIPMENT STUB-OUTS SHALL BE PROVIDED WITH A STOP VALVE. UNLESS SPECIFIED OTHERWISE, ALL FIXTURE STOPS SHALL BE SOLID BRASS, LOOSE KEY OPERATED, CHROME PLATED, AND FITTED TIGHT TO CHROME PLATED BRASS WALL ESCUTCHEON PLATES COMPLETE WITH SUPPLY RISERS OF TYPE 'L' TUBING, CHROME PLATED. MCGUIRE MANUFACTURING OR PRE-APPROVED EQUAL.
7. ALL EXPOSED FIXTURE P-TRAPS WITHIN THE BUILDING AND ABOVE FLOOR SHALL BE CHROME PLATED ADJUSTABLE, HEAVY CAST BRASS WITH CLEANOUT PLUG, SLIP NUTS, AND 17 GAUGE SEAMLESS TUBULAR BRASS DRAIN TO WALL WITH WALL FLANGE. MCGUIRE MANUFACTURING OR PRE-APPROVED EQUAL.
8. EACH FIXTURE TRAP SHALL HAVE A LIQUID SEAL OF NOT LESS THAN 2 INCHES AND NOT MORE THAN 4 INCHES, EXCEPT WHERE A DEEPER SEAL IS FOUND NECESSARY BY THE AUTHORITY HAVING JURISDICTION.
9. ALL ROUGH IN OPENINGS SHALL BE FITTED WITH CHROME PLATED SOLID RING TYPE ESCUTCHEON PLATES FITTED TIGHT TO THE PIPE AND FLUSH TO THE WALL.
10. ALL EXPOSED TAILPIECES, P-TRAPS, TRAP ARMS, ASSOCIATED HARDWARE AND ESCUTCHEONS SHALL BE CHROME PLATED.
11. ALL FIXTURES INDICATED AS OR REQUIRED TO BE HANDICAPPED ACCESSIBLE ("ADA" OR "TAS") SHALL BE PROVIDED IN APPROVED TYPES, WITH REQUIRED CONTROLS AND PROVIDED WITH THE REQUIRED HEIGHTS AND CLEARANCES. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONED MOUNTING HEIGHTS AND SPECIFIED CLEARANCE REQUIREMENTS.
12. ALL EXPOSED LAVATORY AND SINK PIPING FOR ACCESSIBLE FIXTURES SHALL BE INSULATED WITH APPROVED, MANUFACTURED MOLDED VINYL COVERS BY TRUEBRO OR APPROVED EQUAL. PROVIDE OFFSET DRAIN FITTINGS WHERE REQUIRED TO ENSURE REQUIRED MINIMUM CLEARANCES.
13. ALL ACCESSIBLE SINKS SHALL BE PROVIDED WITH DRAIN OUTLETS LOCATED ACCORDINGLY TOWARD THE REAR OF BASIN.
14. ENSURE TO ORIENT ALL ACCESSIBLE WATER CLOSET FLUSH OPERATORS ON THE "WIDE" SIDE OF THE FIXTURE ENCLOSURE.
15. SEAL ALL SPACES BETWEEN PLUMBING FIXTURES AND MOUNTING SURFACES WITH WHITE SILICONE CAULK WIPED SMOOTH AND FLUSH WITH FIXTURE.
16. FLOOR DRAINS SHALL BE INSTALLED AT LOW POINTS OF SLOPED FLOORS. CONTRACTOR SHALL FIELD COORDINATE WITH STRUCTURAL TO WITH INTENDED ARCHITECTURAL FLOOR FINISHES TO ENSURE THAT DRAINS ARE LOCATED ACCORDINGLY.
17. PROVIDE A COMPATIBLE WATER FILTER AT EACH ICE MAKING MACHINE.
18. ALL SINKS AND URINALS SHALL BE PROVIDED WITH WALL CLEANOUTS.
19. SHOCK ARRESTORS SHALL CONFORM WITH THE REQUIREMENTS OF ASSE 1010 AND SHALL BE SIZED AND LOCATED PER THE PLUMBING AND DRAINAGE INSTITUTE STANDARD WH-201. PROVIDE ACCESS PANELS SIZED ACCORDINGLY TO ENSURE MAINTENANCE AND REPLACEMENT ACCESS TO ALL SHOCK ARRESTORS. FINAL LOCATIONS AND SIZES OF REQUIRED ACCESS PANELS SHALL BE REVIEWED FOR APPROVAL BY THE ARCHITECT PRIOR TO INSTALLATION.

GENERAL PLUMBING NOTES: (RENOVATIONS)

1. FIELD VERIFY AS NECESSARY THE EXACT LOCATION, SIZE, DEPTH BELOW FLOOR/HEIGHT ABOVE CEILING, ROUTING, DIRECTION OF FLOW, CAPACITY, PIPE MATERIAL, AND CONDITION OF EXISTING PIPING. MAKE ADJUSTMENTS AS REQUIRED.
2. COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND TO MINIMIZE INTERRUPTION OF SERVICES.
3. THE PROPER INSTALLATION OF NEW FIXTURES AND THE PROPER CONTINUED OPERATION OF EXISTING BUILDING FIXTURES TO REMAIN SHALL GOVERN THE EXTENT AND NATURE OF WORK.
4. THE CONTRACTOR SHALL MAKE ARRANGEMENTS IN ADVANCE WITH THE OWNER PRIOR TO ANY NECESSARY SHUT DOWN OF THE DOMESTIC WATER OR ANY OTHER SERVICE. ANY SUCH SHUT DOWN SHALL BE AT A TIME AND FOR A DURATION SATISFACTORY TO THE OWNER, WHO SHALL MAKE THE FINAL DETERMINATION AS TO ITS ACCEPTABILITY.
5. SITE INSPECTION: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMITTING A BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND EXACT NATURE OF WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN THE CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDS FOR ANY OMISSION WHICH RESULTS FROM FAILURE TO MAKE SUCH A THOROUGH EXAMINATION. NOTE THAT FOR GRAPHICAL CLARITY, ALL EXISTING PIPING TO REMAIN OR BE ABANDONED IN PLACE MAY NOT BE SHOWN ON THE FLOOR PLANS.

GENERAL WORK NOTES

1. ALL WORK, METHODS, AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE PREVAILING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
2. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS, ELEVATIONS, DIRECTION OF FLOW, PIPE SIZES & CAPACITIES, AND PIPE MATERIAL & CONDITION AT PROPOSED POINTS OF CONNECTION WITH EXISTING BUILDING PLUMBING LINES AND SITE CIVIL LINES PRIOR TO INSTALLATION OF ANY NEW WORK. MODIFY/REPLACE EXISTING PIPING IF AND AS REQUIRED TO ENSURE PROPER CONNECTIONS. ONLY CONNECT NEW LINES TO SUITABLE EXISTING LINES OF EQUAL OR GREATER SIZE.
3. COORDINATE ROUTING OF BURIED PIPING WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND UTILITIES, AND ALL OTHER SUB-SURFACE BUILDING ELEMENTS. MAKE ADJUSTMENTS AS REQUIRED AND ADVISE ARCHITECT/ENGINEER OF ANY GRADING CONFLICTS PRIOR TO COMMENCING INSTALLATION.
4. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL CONDITIONS AND PROVIDE PROPER PIPING INSTALLATIONS AS REQUIRED WITHOUT DAMAGE TO STRUCTURE. WHERE STRUCTURAL MODIFICATIONS WILL BE REQUIRED, THE CONTRACTOR SHALL FIRST RECEIVE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER AND PROVIDE ALL SUCH WORK ACCORDINGLY.
5. COORDINATE IN FIELD TO ENSURE NO LESS THAN 6 INCHES OF EARTHEN COVER FROM TOPS OF DRAINAGE PIPES TO BOTTOMS OF GRADE BEAMS, FOUNDATION WALLS, OR SIMILAR ELEMENTS. WHERE SUCH COVER CANNOT BE PROVIDED DUE TO INVERT ELEVATIONS, PROVIDE SCHEDULE 40 GALVANIZED STEEL PIPE SLEEVES THROUGH THE FOUNDATION ELEMENTS. SLEEVES SHALL BE NO SMALLER THAN TWO PIPE SIZES LARGER THAN THE PIPE SERVED. SEAL WATERTIGHT. COORDINATE WITH AND ADHERE TO ALL RELATED REQUIREMENTS PER THE STRUCTURAL ENGINEER.
6. CONTRACTOR SHALL FIELD COORDINATE LOCATIONS AND ELEVATIONS OF ALL PLUMBING PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. WHERE RELOCATIONS OF NEW WORK ARE REQUIRED TO CORRECT CONFLICTS WITH OTHER TRADES IT SHALL BE DONE AT NO ADDITIONAL COST TO OWNER.
7. ALL PIPE PASSING THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SUPPORTED AT THE PENETRATION AND SHALL BE SEALED WITH APPROVED FIRE STOP MATERIALS AS SPECIFIED AND AS REQUIRED BY CODE AND THE AUTHORITIES HAVING JURISDICTION.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING ALL PLUMBING PIPING SLEEVE LOCATIONS WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF ANY PIPING OR SUPPORTS.
9. HORIZONTAL GRAVITY DRAINAGE PIPING SHALL BE PROVIDED AT NO LESS THAN THE MINIMUM SLOPE AS REQUIRED BY THE PREVAILING PLUMBING CODE.
   A. IN ACCORDANCE WITH THE UPC: GRAVITY DRAINAGE PIPING 3" AND SMALLER SHALL BE PROVIDED AT NO LESS THAN 1/4 INCH PER FOOT UNIFORM SLOPE AND GRAVITY DRAINAGE PIPING 4" AND LARGER SHALL BE PROVIDED AT NO LESS THAN 1/8 INCH PER FOOT UNIFORM SLOPE.
   B. IN ACCORDANCE WITH THE IPC: GRAVITY DRAINAGE PIPING 2-1/2" AND SMALLER SHALL BE PROVIDED AT NO LESS THAN 1/4 INCH PER FOOT UNIFORM SLOPE AND GRAVITY DRAINAGE PIPING 3" AND LARGER SHALL BE PROVIDED AT NO LESS THAN 1/8 INCH PER FOOT UNIFORM SLOPE.
   C. WHERE THE PREVAILING CODE REQUIRES A STEEPER SLOPE THAN INDICATED ABOVE (SUCH AS FOR GREASE WASTE PIPING) THEN SUCH REQUIREMENT SHALL CONTROL.
10. SLOPE ALL VENT PIPE BACK FROM THE VENT TERMINAL AT A MINIMUM 6" PER 100 FEET OF RUN.
11. THE DISCHARGE LINE FROM ANY EJECTOR OR PUMP WHICH CONNECTS TO A HORIZONTAL GRAVITY DRAINAGE LINE SHALL BE FROM THE TOP, THROUGH A WYE BRANCH FITTING.
12. PROVIDE FITTINGS FOR DRAINAGE WASTE AND VENT (DWV) AND STORM PIPING SYSTEMS OF APPROVED DRAINAGE PATTERN AND LONG OR SHORT RADIUS TYPES AS REQUIRED AND APPROVED FOR USE IN COMPLIANCE WITH PLUMBING CODE REQUIREMENTS.
13. PROVIDE CLEANOUTS AT EACH CHANGE OF DRAINLINE DIRECTION GREATER THAN 45° AND IN COMPLIANCE WITH PLUMBING CODE REQUIREMENTS.
14. PROVIDE BRACING TO PREVENT AXIAL MOVEMENT FOR ALL DRAINAGE PIPING. PROVIDE RESTRAINTS AT ALL CHANGES IN DIRECTION AND AT ALL DIAMETER CHANGES GREATER THAN TWO PIPE SIZES. SPECIFICALLY ENGINEERED BRACES, STRAPS, AND CLAMPS CONSISTENT WITH THE PIPE AND COUPLING MANUFACTURER RECOMMENDATIONS, THE APPLICABLE INSTALLATION STANDARDS, AND LOCAL CODE REQUIREMENTS SHALL BE ACCEPTABLE. HOLDRITE OR PRE-APPROVED EQUIVALENT PRODUCTS.
15. PROVIDE ISOLATING BALL VALVES FOR ALL BRANCHES OFF DOMESTIC WATER MAINS. ALL PLUMBING SYSTEM VALVES SHALL BE INSTALLED IN ACCESSIBLE CEILING SPACES. WHERE CEILING IS NOT ACCESSIBLE, OR SPACE IS CONFLICTING, VALVES SHALL BE INSTALLED IN PARTITIONS OR PIPE CHASES. PROVIDE MILCOR STYLE 'K' PAINTED STEEL HINGED ACCESS PANELS IN LOCATIONS PRE-APPROVED BY THE ARCHITECT.
16. ALL HOT WATER AND HOT WATER CIRCULATING PIPING SHALL BE PROVIDED WITH FIBERGLASS INSULATION WITH ALL SERVICE JACKET AND SELF SEALING LAP JOINT AS FOLLOWS:
   A. 1" THICK INSULATION FOR PIPE SIZES 1-1/4" AND SMALLER.
   B. 1-1/2" THICK INSULATION FOR PIPE SIZES 1-1/2" AND LARGER.
17. INSTALL EACH WATER HEATER AND ALL OTHER PLUMBING EQUIPMENT WITH ADEQUATE CLEARANCES FOR ACCESS BY SERVICE PERSONNEL AND WITH PROPER ORIENTATION FOR ELEMENT REMOVAL/REPLACEMENT.
18. CONTRACTOR SHALL STERILIZE ALL DOMESTIC WATER PIPING ACCORDING TO AMERICAN WATER WORKS ASSOCIATION (AWWA) SPECIFICATIONS.
19. ALL CAST IRON PIPE, FITTINGS AND INSTALLATION SHALL COMPLY WITH THE CAST IRON SOIL PIPE INSTITUTE (CISPI) STANDARDS.
20. FLASH FLOOR DRAINS IN FLOORS WITH TOPPING OVER FINISHED AREAS WITH 40 MIL PVC MEMBRANE, 10 INCHES CLEAR ON SIDES WITH MINIMUM 36 X 36 INCH SHEET SIZE. FASTEN WATERPROOFING MEMBRANE FLASHING TO DRAIN CLAMPING DEVICE.
21. NO PLUMBING PIPING SHALL BE ROUTED OVER MAJOR MECHANICAL EQUIPMENT, MDF/IDF/DATA CLOSETS, ELECTRICAL ROOMS, OR ANY SUCH EQUIPMENT.
22. COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND ALSO TO MINIMIZE INTERRUPTION OF SERVICES FOR RENOVATIONS.
23. THE PROPER INSTALLATION OF NEW FIXTURES AND THE PROPER CONTINUED OPERATION OF EXISTING BUILDING FIXTURES TO REMAIN (FOR RENOVATIONS) SHALL GOVERN THE EXTENT AND NATURE OF WORK.
24. FOR RENOVATIONS THE CONTRACTOR SHALL MAKE ARRANGEMENTS IN ADVANCE WITH THE OWNER PRIOR TO ANY NECESSARY SHUT DOWN OF THE DOMESTIC WATER OR ANY OTHER SERVICE. ANY SUCH SHUT DOWN SHALL BE AT A TIME AND FOR A DURATION SATISFACTORY TO THE OWNER, WHO SHALL MAKE THE FINAL DETERMINATION AS TO ITS ACCEPTABILITY.
25. RENOVATIONS SITE INSPECTIONS: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMITTING A BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND EXACT NATURE OF WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN THE CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDS FOR ANY OMISSION WHICH RESULTS FROM FAILURE TO MAKE SUCH A THOROUGH EXAMINATION. NOTE THAT FOR GRAPHICAL CLARITY, ALL EXISTING PIPING TO REMAIN OR BE ABANDONED IN PLACE MAY NOT BE SHOWN ON THE FLOOR PLANS.

GENERAL PLUMBING NOTES: (NEWWORK - RENOVATION AND NEW CONSTRUCTION)

1. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL CODES AND AUTHORITIES HAVING JURISDICTION.
2. CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS AS REQUIRED TO MAKE FINAL CONNECTIONS FOR ALL PLUMBING FIXTURES, EQUIPMENT AND RELATED ITEMS PROVIDED UNDER SEPARATE DIVISIONS.
3. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS AND ELEVATIONS OF PROPOSED POINTS OF CONNECTION WITH EXISTING BUILDING PLUMBING UTILITY LINES AND SITE CIVIL LINES PRIOR TO INSTALLATION OF ANY NEW WORK.
4. CONTRACTOR SHALL BE RESPONSIBLE TO ALERT ARCHITECT AND ENGINEER OF GRADING CONFLICTS PRIOR TO COMMENCING INSTALLATION OF ANY WORK.
5. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL CONDITIONS AS EXISTING AND PROVIDE PROPER PIPING INSTALLATIONS AS REQUIRED WITHOUT DAMAGE TO STRUCTURE. WHERE STRUCTURAL MODIFICATIONS ARE TO BE REQUIRED, CONTRACTOR SHALL FIRST RECEIVE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING LOCATIONS AND ELEVATIONS OF ALL PLUMBING PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. WHERE RELOCATIONS OF NEW WORK ARE REQUIRED TO CORRECT CONFLICTS WITH OTHER TRADES IT SHALL BE DONE AT NO ADDITIONAL COST TO OWNER.
7. ALL PIPE PASSING THROUGH FIRE RATED WALLS OR FLOOR SLAB SHALL BE SUPPORTED AT THE PENETRATION AND SHALL BE SEALED WITH APPROVED FIRE STOP MATERIALS AS SPECIFIED AND REQUIRED BY CODE AUTHORITIES HAVING JURISDICTION.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING ALL PLUMBING PIPING SLEEVE LOCATIONS WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF ANY PIPING OR SUPPORTS.
9. DO NOT SCALE PLUMBING DRAWINGS FOR FIELD ROUGH-IN WORK. CONTRACTOR SHALL REFER TO THE DIMENSIONED ARCHITECTURAL AND STRUCTURAL DRAWINGS TO FIELD DETERMINE EXACT LOCATIONS OF ROUGH-IN WORK.
10. SANITARY DRAINAGE PIPE 3" AND SMALLER SHALL HAVE A UNIFORM MINIMUM CONTINUOUS SLOPE OF 1/4 INCH PER FOOT OF RUN. DRAINAGE PIPE 4" AND LARGER SHALL SLOPE AT MINIMUM 1/8 INCH PER FOOT OF RUN. SLOPE ALL VENT PIPE MINIMUM 6" PER 100 FEET OF RUN.
11. STORM DRAINAGE PIPE SHALL HAVE A UNIFORM MINIMUM CONTINUOUS SLOPE OF 1/8 INCH PER FOOT OF RUN. SLOPES OF 1/4 INCH PER FOOT ARE PERMITTED WHERE NOTED ON PLAN OR AS REQUIRED.
12. PROVIDE FITTINGS FOR SANITARY DRAIN, WASTE AND WASTE PIPING SYSTEMS OF APPROVED DRAINAGE PATTERN AND LONG OR SHORT RADIUS TYPES AS REQUIRED AND APPROVED FOR USE IN COMPLIANCE WITH PLUMBING CODE REQUIREMENTS.
13. PROVIDE CLEANOUTS AT EACH CHANGE OF DRAINLINE DIRECTION GREATER THAN 45° AND IN COMPLIANCE WITH PLUMBING CODE REQUIREMENTS.
14. PROVIDE BRACING TO PREVENT AXIAL MOVEMENT FOR ALL DRAINAGE PIPING. PROVIDE RESTRAINTS AT ALL CHANGES IN DIRECTION AND AT ALL DIAMETER CHANGES GREATER THAN TWO PIPE SIZES. BRACES, BLOCKS, RODDING AND OTHER METHODS AS PRESCRIBED BY THE PIPE AND COUPLING MANUFACTURER SHALL BE ACCEPTABLE.
15. PROVIDE ISOLATING BALL VALVES FOR ALL BRANCHES OFF DOMESTIC WATER MAINS. ALL PLUMBING SYSTEM VALVES SHALL BE INSTALLED IN ACCESSIBLE CEILING SPACES. WHERE CEILING IS NOT ACCESSIBLE, OR SPACE IS CONFLICTING, VALVES SHALL BE INSTALLED IN PARTITIONS OR PIPE CHASES. PROVIDE MILCOR STYLE 'K' PAINTED STEEL HINGED ACCESS PANELS IN LOCATIONS PRE-APPROVED BY THE ARCHITECT.
16. ALL HOT WATER AND HOT WATER CIRCULATING PIPING SHALL HAVE 1" THICK FIBERGLASS INSULATION WITH ALL SERVICE JACKET AND SELF SEALING LAP JOINT.
17. INSTALL EACH WATER HEATER AND ALL OTHER PLUMBING EQUIPMENT WITH ADEQUATE CLEARANCES FOR ACCESS BY SERVICE PERSONNEL AND WITH PROPER ORIENTATION FOR ELEMENT REMOVALS/REPLACEMENTS.
18. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING LOCATIONS OF ALL SANITARY VENTS UP THROUGH ROOF TO MAINTAIN MINIMUM 25' CLEARANCE TO ANY BUILDING OUTDOOR AIR INLET.
19. CONTRACTOR SHALL STERILIZE ALL DOMESTIC WATER PIPING ACCORDING TO AMERICAN WATER WORKS ASSOCIATION (AWWA) SPECIFICATIONS.
20. SHOCK ARRESTORS SHALL CONFORM WITH THE REQUIREMENTS OF SSE 1010 AND SHALL BE SIZED AND LOCATED PER PLUMBING AND DRAINAGE INSTITUTE STANDARD WH-201. ACCESS PANELS REQUIRED FOR FIXTURE GROUPS SHALL BE SIZED TO ALLOW SERVICE TO SHOCK ARRESTORS WHERE POSSIBLE. LOCATIONS AND SIZES OF REQUIRED ACCESS PANELS SHALL BE REVIEWED FOR APPROVAL BY THE ARCHITECT PRIOR TO INSTALLATION.
21. ALL CAST IRON FITTINGS AND INSTALLATION SHALL COMPLY WITH THE CAST IRON SOIL PIPE INSTITUTE (CISPI) STANDARDS.
22. FLASH FLOOR DRAINS IN FLOORS WITH TOPPING OVER FINISHED AREAS WITH 40 MIL PVC MEMBRANE, 10 INCHES CLEAR ON SIDES WITH MINIMUM 36 X 36 INCH SHEET SIZE. FASTEN WATERPROOFING MEMBRANE FLASHING TO DRAIN CLAMP DEVICE.

GENERAL FIRE PROTECTION NOTES

1. MODIFICATIONS TO THE EXISTING FIRE SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY A STATE LICENSED FIRE SPRINKLER CONTRACTOR (HEREINAFTER CONTRACTOR) IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 (PREVAILING EDITION) AND ALL AUTHORITIES HAVING JURISDICTION.
2. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF EXISTING SPRINKLER HEADS, PIPING, AND APPURTENANCES AS NECESSARY.
3. PROVIDE ALL SPRINKLER HEADS, PIPE, FITTINGS, HANGERS, AND ACCESSORIES AS NECESSARY. ENSURE ANY VALVE SUPERVISORY SWITCHES AND FLOW SWITCHES ARE COORDINATED WITH THE BUILDING FIRE ALARM SYSTEM.
4. THE FINAL FIRE SPRINKLER SYSTEM SHALL PROVIDE COMPLETE AUTOMATIC PROTECTION AND COVERAGE AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION AND NFPA 13 (PREVAILING EDITION). THE SPRINKLER SYSTEM MUST ALSO BE APPROVED BY THE OWNER'S FIRE INSURANCE UNDERWRITER.
5. COORDINATE SPRINKLER HEAD LOCATIONS WITH LATEST ARCHITECTURAL REFLECTED CEILING PLANS AND FINISHES. EXTEND BRANCH LINES ACCORDINGLY TO PROVIDE SPRINKLERS BOTH ABOVE AND BELOW ANY "CLOUD" CEILINGS, IF PRESENT. ALL SPRINKLER HEADS SHALL BE INSTALLED IN CENTER OF CEILING TILES REGARDLESS OF ANY NECESSITY TO PROVIDE ADDITIONAL HEADS TO ACCOMPLISH UNIFORM APPEARANCE OF THE COMPLETED INSTALLATION BY THIS REQUIREMENT. THE CONTRACTOR SHALL MAKE ADJUSTMENTS AS NECESSARY DURING THE SHOP DRAWING PROCESS TO MEET ARCHITECTURAL REVIEW REQUIREMENTS WHILE STILL ENSURING COMPLETE AND COMPLIANT COVERAGE.
6. ENSURE TO LOCATE THE INSPECTOR'S TEST CONNECTION AT THE END OF THE MOST REMOTE BRANCH LINE FOR EACH SYSTEM.
7. SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL BY THE OWNER'S FIRE INSURANCE UNDERWRITER AND FIRE MARSHAL. THEY SHALL ALSO BE SUBMITTED FOR REVIEW BY THE ARCHITECT AND ENGINEER OF RECORD.
8. SPRINKLER SYSTEM SHALL CONTAIN NO SUCH ADDITIONAL VALVES DOWNSTREAM OF THE CONTROL STATION.
9. THE SPRINKLER SYSTEM SHALL BE DESIGNED AS REQUIRED TO ACCOMMODATE FIXTURES, PARTITIONS, SOFFITS, FURR DOWNS, CEILING HEIGHTS, OBSTRUCTIONS, ETC.
10. REFER TO THE OWNER'S CRITERIA/CONSTRUCTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
11. REFER TO THE ARCHITECTURAL CODE ANALYSIS FOR ANY SPECIAL REQUIREMENTS.
12. THE EXISTING SPRINKLER SYSTEM SHALL BE FULLY CHARGED AND OPERATIONAL WHEN THE CONTRACTOR IS OFF THE SITE.
13. PRIOR TO THE PROPOSED SHUT-DOWN/INTERRUPTION OF ANY EXISTING FIRE PROTECTION SYSTEM, THE CONTRACTOR SHALL ADVISE THE OWNER/OWNER'S APPOINTED REPRESENTATIVE NO LESS THAN 24 HOURS PRIOR. ALL SUCH SERVICE INTERRUPTIONS SHALL BE FULLY COORDINATED.
14. THE CONTRACTOR SHALL PERFORM ALL WORK IN A WORKMANLIKE MANNER. UPON COMPLETION OF WORK THE CONTRACTOR SHALL TEST, THEN CONNECT TO THE MAIN SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE SYSTEM TO FULL OPERATION.

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10-31-25

REVISIONS

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PLUMBING GENERAL NOTES

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LEVEL 01 - DEMOLITION PLUMBING PLAN

P2.11

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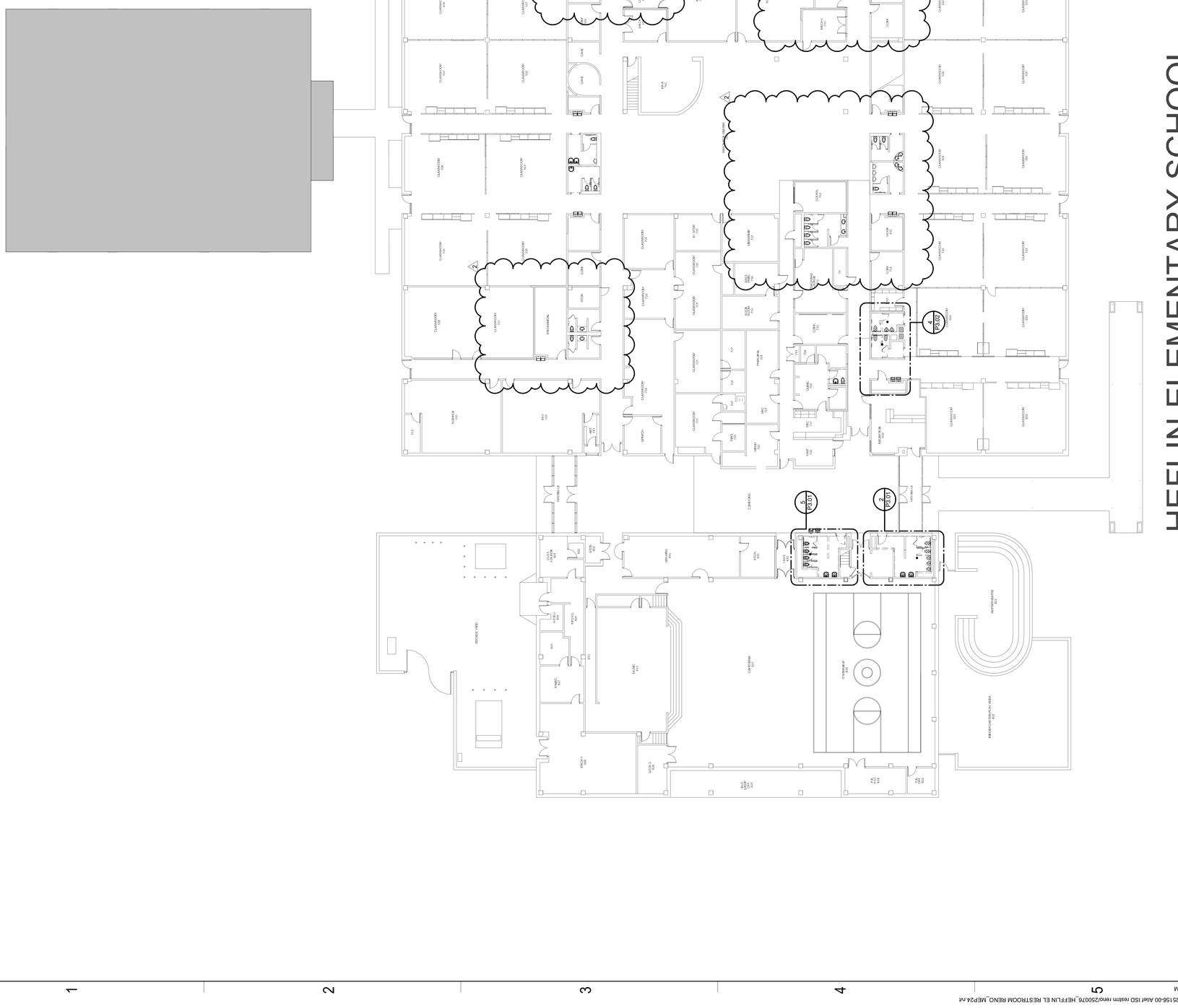

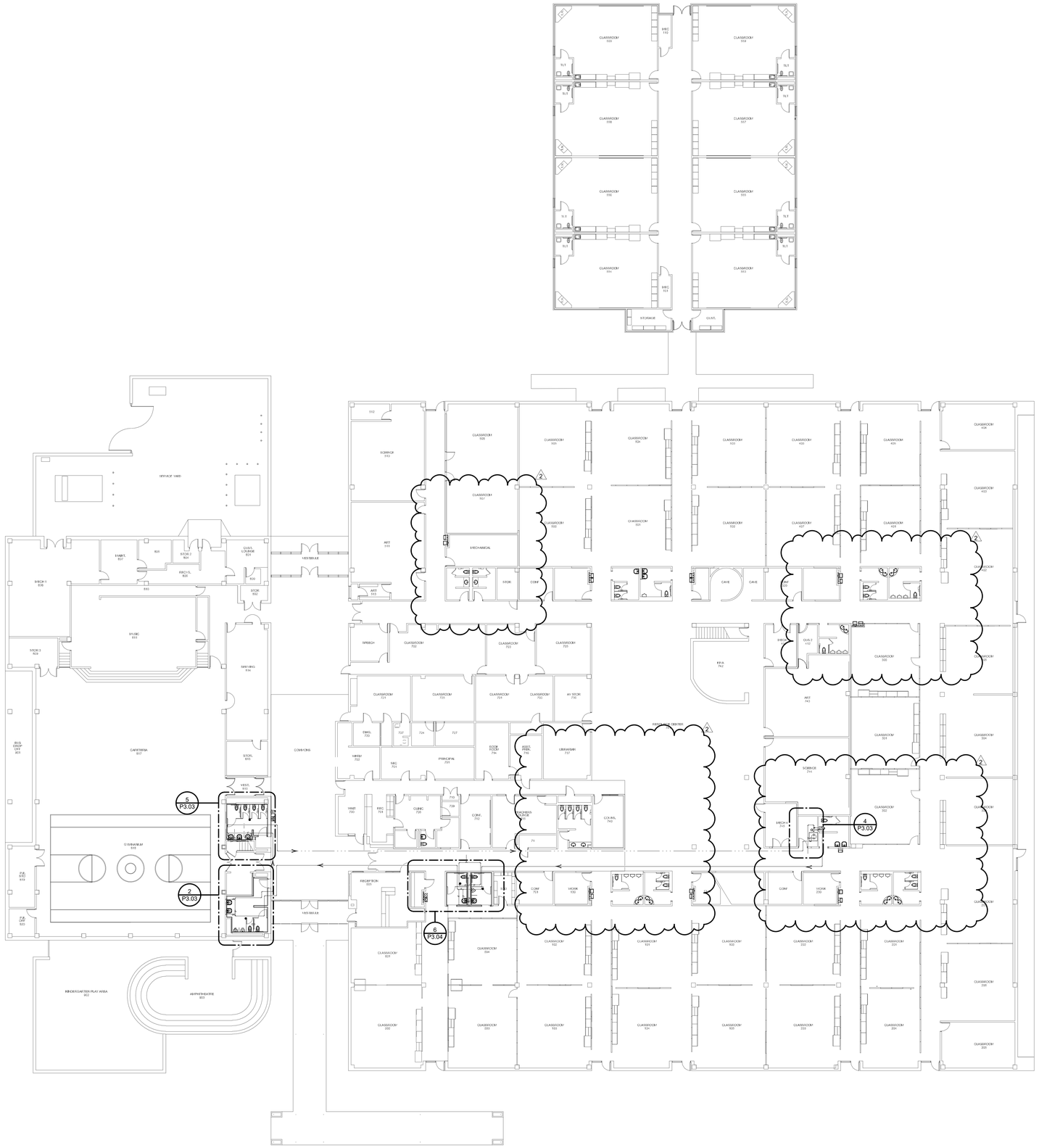

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1 **LEVEL 01 - PLUMBING PLAN**

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LEVEL 01 - PLUMBING PLAN

P2.12

PLUMBING KEYED NOTES

P10.4 REMOVE EXISTING LAVATORY. MODIFY EXISTING PLUMBING PIPING FOR NEW LAVATORY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.5 REMOVE EXISTING WATER CLOSET. MODIFY EXISTING PLUMBING PIPING FOR NEW WATER CLOSET. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.6 REMOVE EXISTING URINAL. MODIFY EXISTING PLUMBING PIPING FOR NEW URINAL. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

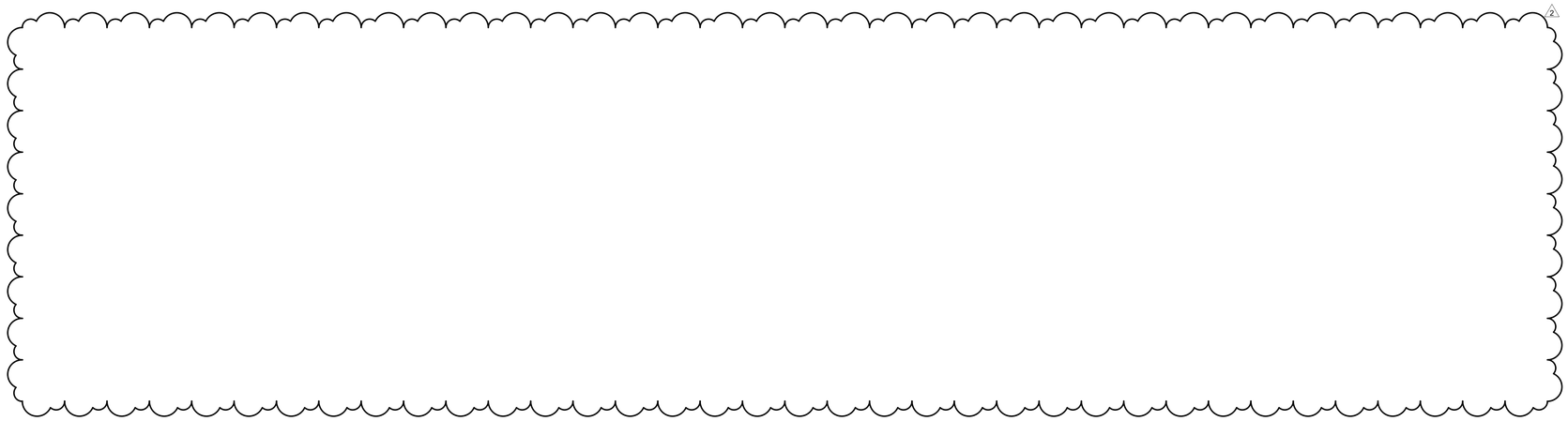
P10.8 APPROXIMATE LOCATION OF EXISTING 3" FLOOR DRAIN; PREPARE FLOOR DRAIN FOR NEW STRAINER AND GRATE. NEW GRATE WILL BE SQUARE IN LIEU OF ROUND, PREPARE SURROUNDING FLOOR AS REQUIRED.

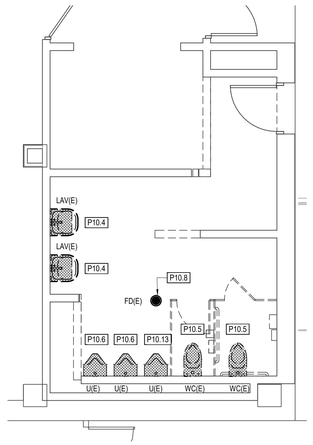
P10.11 REMOVE EXISTING DRINKING FOUNTAIN. MODIFY EXISTING PLUMBING PIPING FOR NEW WATER FOUNTAIN. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.12 REMOVE EXISTING LAVATORY IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.13 REMOVE EXISTING URINAL IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.14 APPROXIMATE LOCATION OF EXISTING 3" FLOOR DRAIN; PREPARE FOR NEW FLOOR DRAIN TO BE EXTENDED BEYOND TOILET PARTITION. NEW GRATE SHALL BE SQUARE IN LIEU OF ROUND AS DESCRIBED IN PLUMBING FIXTURE SCHEDULE FOR FD-1. PREPARE SURROUNDING FLOOR AS REQUIRED. SAW-CUT SLAB AND PATCH TO MATCH AS REQUIRED.





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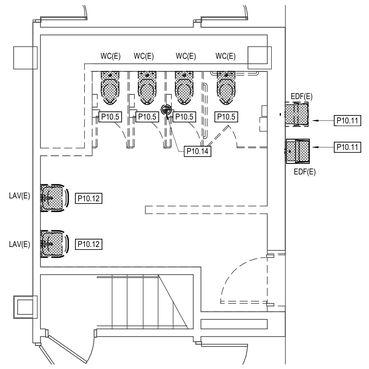
2 **LEVEL 01 - DEMOLITION PLUMBING PLAN - RR B 800**

1/4" = 1'-0"



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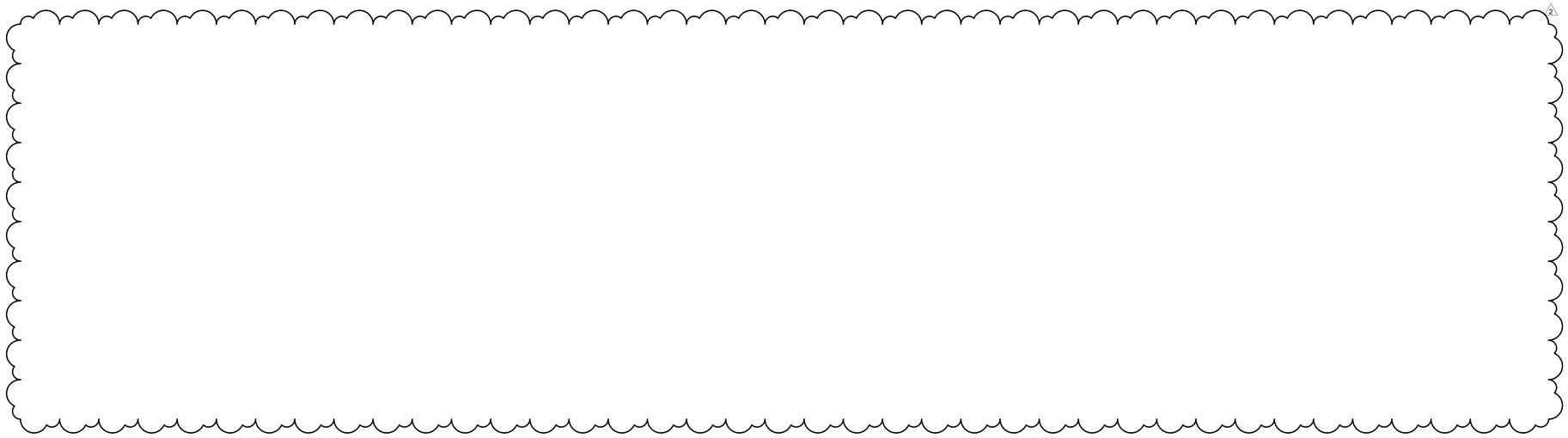
5 **LEVEL 01 - DEMOLITION PLUMBING PLAN - RR G 800**

1/4" = 1'-0"



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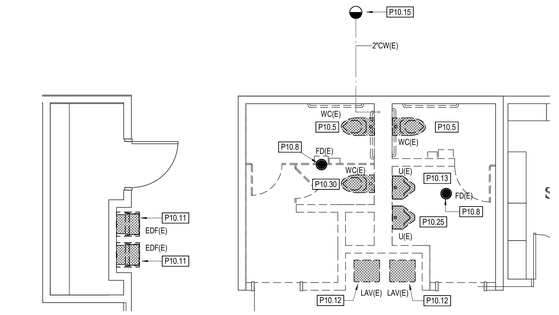
LEVEL 01 - DEMOLITION PLUMBING PLAN - ENLARGED

P3.01



4 **LEVEL 01 - DEMOLITION PLUMBING PLAN - RR G & B 600**

1/4" = 1'-0"

PLUMBING KEYED NOTES

P10.5 REMOVE EXISTING WATER CLOSET. MODIFY EXISTING PLUMBING PIPING FOR NEW WATER CLOSET. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.8 APPROXIMATE LOCATION OF EXISTING 3" FLOOR DRAIN; PREPARE FLOOR DRAIN FOR NEW STRAINER AND GRATE. NEW GRATE WILL BE SQUARE IN LIEU OF ROUND. PREPARE SURROUNDING FLOOR AS REQUIRED.

P10.11 REMOVE EXISTING DRINKING FOUNTAIN. MODIFY EXISTING PLUMBING PIPING FOR NEW WATER FOUNTAIN. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.12 REMOVE EXISTING LAVATORY IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.13 REMOVE EXISTING URINAL IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.15 EXISTING DOMESTIC COLD WATER LINE TO BE REMOVED BACK TO THIS POINT AND PREPARED FOR FUTURE TIE IN. RE: NEW PLANS.

P10.25 REMOVE EXISTING URINAL. MODIFY EXISTING PLUMBING PIPING FOR NEW LAVATORY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.30 REMOVE EXISTING WATER CLOSET. MODIFY EXISTING PLUMBING PIPING FOR NEW LAVATORY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

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LEVEL 01 - DEMOLITION PLUMBING PLAN - ENLARGED

P3.02

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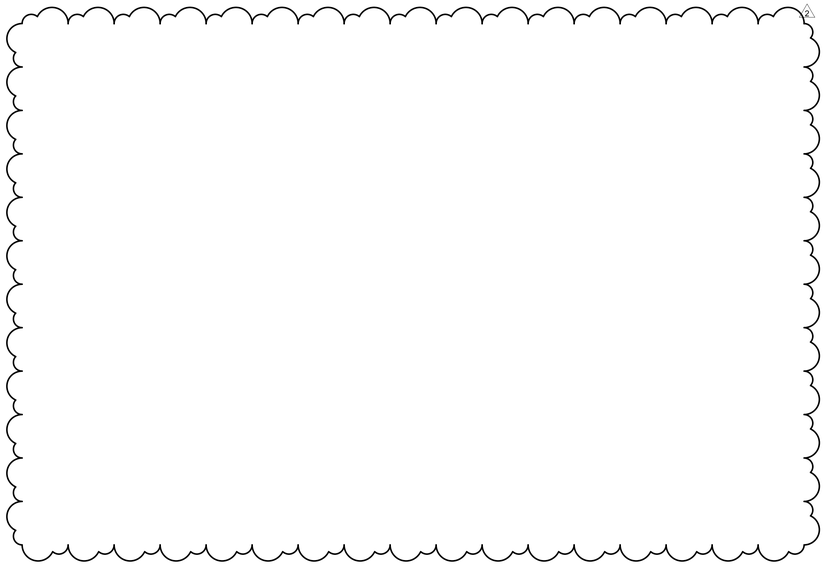

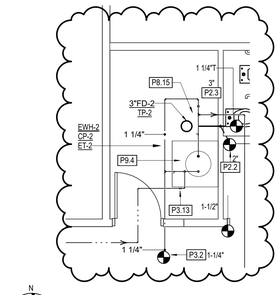

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4 LEVEL 01 - PLUMBING PLAN - RR G 300

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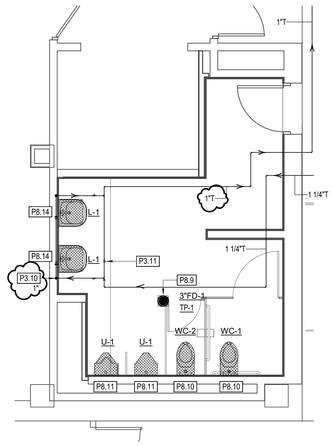

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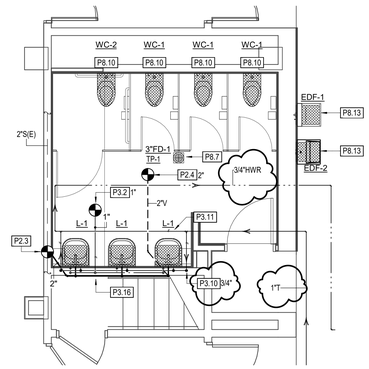
2 LEVEL 01 - PLUMBING PLAN - RR B 800

1/4" = 1'-0"



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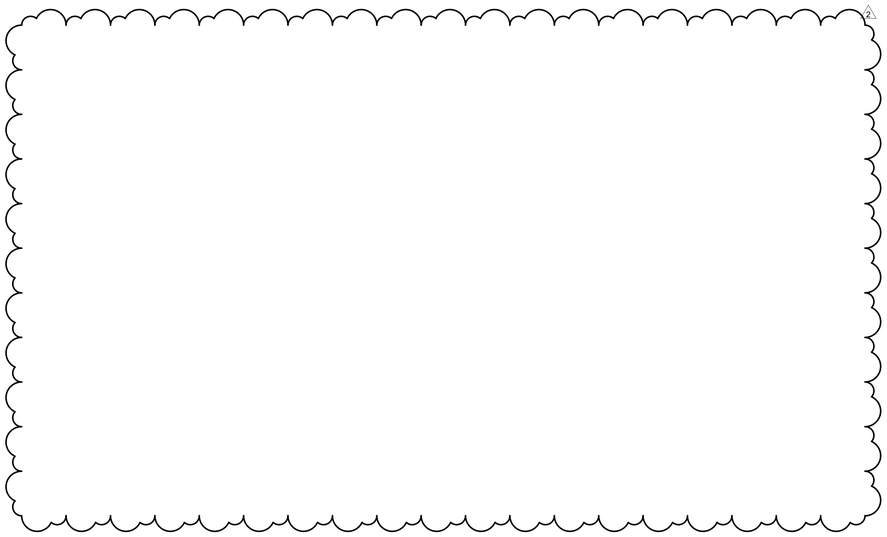
5 LEVEL 01 - PLUMBING PLAN - RR G 800

1/4" = 1'-0"



PLUMBING KEYED NOTES

P2.2 APPROXIMATE LOCATION OF EXISTING VENT LINE ABOVE CEILING, SIZE AS NOTED.

P2.3 MODIFY AS REQUIRED AND CONNECT NEW SANITARY WASTE BELOW FLOOR TO EXISTING OF EQUAL OR GREATER SIZE.

P2.4 MODIFY AS REQUIRED AND CONNECT NEW VENT ABOVE CEILING TO EXISTING OF EQUAL OR GREATER SIZE.

P3.2 MODIFY AS REQUIRED AND CONNECT NEW COLD WATER ABOVE CEILING TO EXISTING OF EQUAL OR GREATER SIZE.

P3.10 HOT WATER DROP DOWN TO, RISE UP FROM, AND CIRCULATED HOT WATER LINE INSIDE WALL/CHASE AND WITHIN 2'-0" OF HOT WATER ROUGH-IN TO LAVATORY FOR 2015 IECC COMPLIANCE. SIZE AS NOTED.

P3.11 PROVIDE NORMALLY CLOSED BYPASS VALVE ON HOT WATER LOOP.

P3.13 HOT WATER RETURN BALANCING VALVE. SET TEMP AND FLOW AS SHOWN IN DRAWINGS.

P3.16 DROP AND EXTEND 1" COLD WATER TO SERVE FIXTURE(S).

P8.7 NEW FLOOR DRAIN LOCATION EXTENDED FROM EXISTING LOCATION. SAW-CUT SLAB AND PATCH TO MATCH AS NECESSARY.

P8.9 REPLACE EXISTING FLOOR DRAIN GRATE AND STRAINER IN SAME LOCATION. FLOOR DRAIN GRATE SHALL BE SQUARE TYPE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION. FLOOR DRAIN LOCATIONS WERE TAKEN FROM EXISTING ENGINEERING DRAWINGS ON FILE.

P8.10 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW WATER CLOSET. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW WATER CLOSET.

P8.11 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW URINAL. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW URINAL.

P8.13 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW DRINKING FOUNTAIN. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE DRINKING FOUNTAIN.

P8.14 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW LAVATORY/LAVATORIES. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW LAVATORY/LAVATORIES.

P8.15 PROVIDE (TMV-1) HYDROGUARD SERIES LFLM490 THERMOSTATIC TEMPERING VALVE FOR HOT WATER DISTRIBUTION.

P9.4 FLOOR MOUNT ELECTRIC WATER HEATER T&P RELIEF VALVE AND DRAIN PAN SHALL DISCHARGE TO NEW FUNNEL DRAIN.

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P3.03

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PLUMBING KEYED NOTES

P3.2 MODIFY AS REQUIRED AND CONNECT NEW COLD WATER ABOVE CEILING TO EXISTING OF EQUAL OR GREATER SIZE.

P3.7 DROP AND EXTEND MINIMUM 1-1/2" COLD WATER TO SERVE FIXTURE(S).

P3.10 HOT WATER DROP DOWN TO, RISE UP FROM, AND CIRCULATED HOT WATER LINE INSIDE WALL/CHASE AND WITHIN 2'-0" OF HOT WATER ROUGH-IN TO LAVATORY FOR 2015 IECC COMPLIANCE. SIZE AS NOTED.

P3.11 PROVIDE NORMALLY CLOSED BYPASS VALVE ON HOT WATER LOOP.

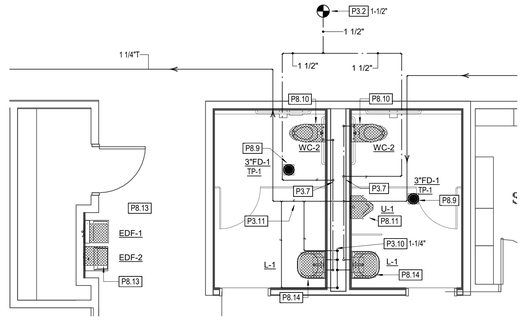
P8.9 REPLACE EXISTING FLOOR DRAIN GRATE AND STRAINER IN SAME LOCATION. FLOOR DRAIN GRATE SHALL BE SQUARE TYPE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION. FLOOR DRAIN LOCATIONS WERE TAKEN FROM EXISTING ENGINEERING DRAWINGS ON FILE.

P8.10 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW WATER CLOSET. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW WATER CLOSET.

P8.11 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW URINAL. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW URINAL.

P8.13 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW DRINKING FOUNTAIN. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE DRINKING FOUNTAIN.

P8.14 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW LAVATORY/LAVATORIES. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW LAVATORY/LAVATORIES.



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6 LEVEL 01 - PLUMBING PLAN - RR G & B 600

1/4" = 1'-0"

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LEVEL 01 - PLUMBING PLAN - ENLARGED

P3.04

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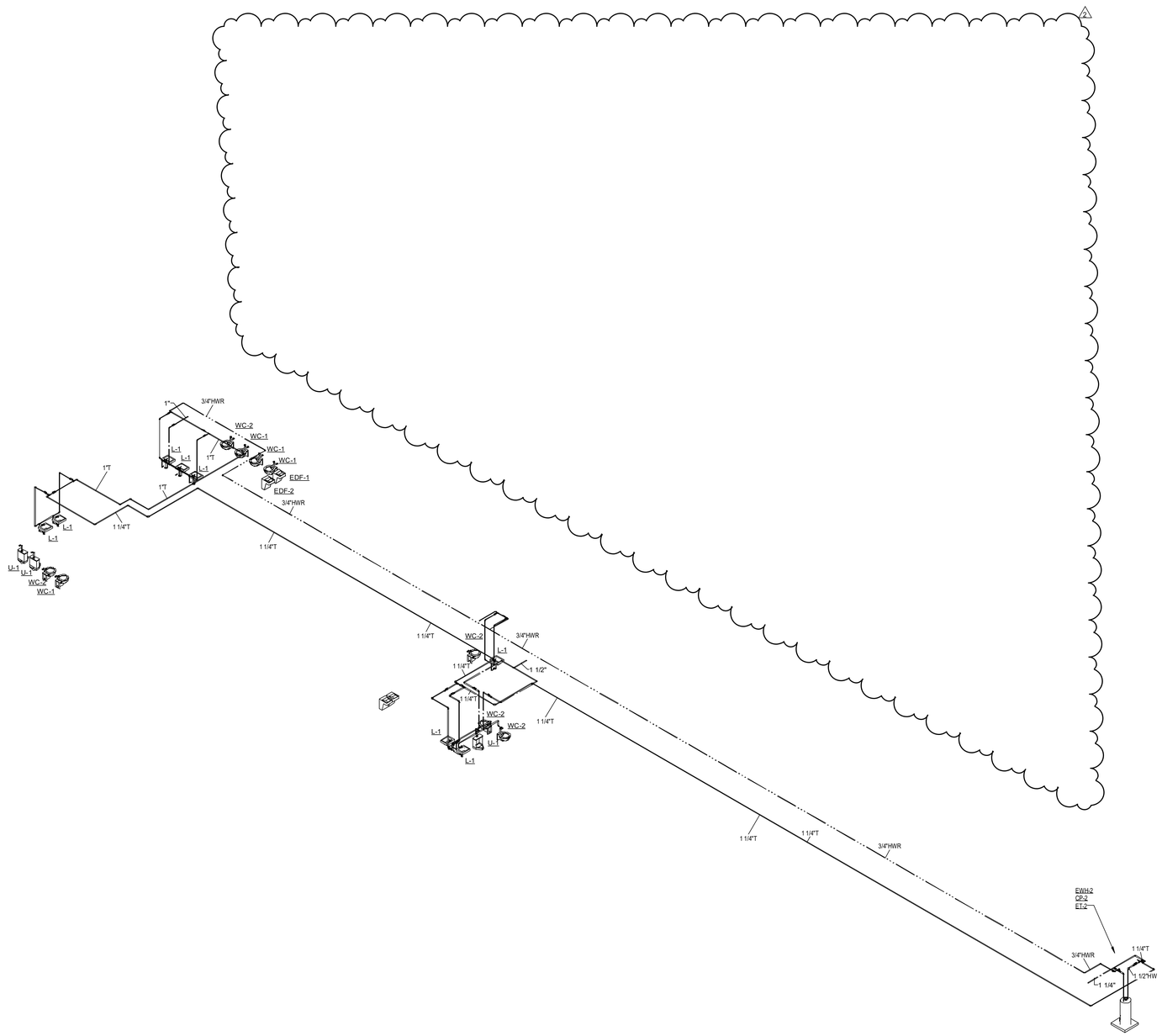

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1 **RISER - WATER**

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PLUMBING FIXTURE SCHEDULE

PLAN MARK	MINIMUM ROUGH-IN SIZES					DESCRIPTION
	WASTE & VENT		DRAIN	CW	HW	
WATER CLOSET WC-1	4"	2"	4"	1-1/2"	---	AMERICAN STANDARD No. 2257.101 "AFWALL" WHITE V.C. ELONGATED SIPHON JET WALL HUNG (1.28 GPF) BOWL WITH TOP SPUD
FLUSH VALVE						SLOAN REGAL No. 111-1.28 FLUSH VALVE LOW CONSUMPTION (MANUAL) VALVE. POLISHED CHROME FINISH.
ACCESSORIES						BEMIS 1655-SSICT EXTRA HEAVY DUTY TOILET SEAT, BLACK,ELONGATED BOWL, OPEN SEAT LESS COVER WITH SELF-SUSTAINING, STAINLESS STEEL CHECK HINGE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CARRIER. FOR FULL DESCRIPTION REFER TO PROJECT SPECIFICATIONS. REFER TO ARCHITECTS PLANS FOR ADA MOUNTING HEIGHT.
WATER CLOSET WC-2 ADA	4"	2"	4"	1-1/2"	---	AMERICAN STANDARD No. 2257.101"AFWALL" SAME AS ABOVE EXCEPT WITH TRIM AS REQUIRED FOR ADA USE. REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT.
URINAL U-1 ADA	2"	2"	2"	3/4"	---	AMERICAN STANDARD No. 6590.001 "WASHBROOK" WHITE V.C. WASHOUT FIXTURE (0.125 GPF) WITH WALL HANGERS, MOUNTING BRACKET, TOP SPUD. PROVIDE CHROME FINISH KOHLER "BARTON" BEEHIVE STRAINER.
FLUSH VALVE						SLOAN No. 186-0.5 FLUSH VALVE HIGH EFFICIENCY (MANUAL) VALVE. POLISHED CHROME FINISH.
ACCESSORIES						PROVIDE ZURN OR EQUAL FLOOR MOUNTED CARRIER. FOR FULL DESCRIPTION REFER TO PROJECT SPECIFICATIONS, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT.
LAVATORY L-1 WALL MOUNT - ADA	2"	2"	1-1/4"	3/4" 1/2"TW (80°)	3/4"	AMERICAN STANDARD LUCERNE 0356.421 WALL HUNG LAVATORY WITH FRONT OVERFLOW AND FAUCET HOLES DRILLED ON 4" CENTERS, WHITE VITREOUS CHINA.
FAUCET						CHICAGO No. 802-VE3805-317ABCP (0.5 GPM) CENTERSET FAUCET WITH VANDAL PROOF WRIST BLADE HANDLES.
ACCESSORIES						REFER TO PLUMBING SUPPLIES AND TRIM SCHEDULE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS. PROVIDE TMV-1 SET TEMPERATURE TO 90°.
ELECTRIC DRINKING FOUNTAIN EDF-1 ADA (LOWSIDE)	2"	2"	1-1/4"	3/4"	---	HALSEY TAYLOR No. HTHB-HACGBSS-WF BOTTLE FILLING STATION & SINGLE COOLER FILTERED REFRIGERATED STAINLESS, CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50° F DRINKING WATER, BASED ON 80° F INLET WATER AND 90° F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE FILTERED, GREEN TICKER, LAMINAR FLOW, REAL DRAIN, VANDAL RESISTANT, VISUAL FILTER MONITOR. FURNISHED WITH VANDAL RESISTANT BUBBLER. ELECTRONIC BOTTLE FILLER BUTTON WITH MECHANICAL FRONT BUBBLER BUTTON ACTIVATION. PRODUCT SHALL BE WALL MOUNT (ON WALL). FOR INDOOR APPLICATIONS, SERVING 1 STATION(S). UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120.
ELECTRICAL REQUIREMENTS						1/5 HP, 4.0 FL. AMPS. WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS.
ACCESSORIES						REFER TO PLUMBING SUPPLY AND TRIM SCHEDULE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS.
ELECTRIC DRINKING FOUNTAIN EDF-2 (HIGHSIDE)	2"	2"	1-1/4"	3/4"	---	HALSEY TAYLOR No. HAC8SS-WF WALL MOUNT ADA COOLER FILTERED 8.0 GPH STAINLESS. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50° F DRINKING WATER, BASED ON 80° F INLET WATER AND 90° F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE FILTERED, FURNISHED WITH DOUBLE BUBBLER, MECHANICAL FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION. PRODUCT SHALL BE WALL MOUNT (ON WALL). FOR INDOOR APPLICATIONS, SERVING 1 STATION(S0. UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120.
ELECTRICAL REQUIREMENTS						1/5 HP, 4.0 FL. AMPS. WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS.
ACCESSORIES						REFER TO PLUMBING SUPPLY AND TRIM SCHEDULE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS.
MOP SINK MS-1	3"	2"	3"	3/4"	3/4"	MUSTEE MODEL No. 63M FLOOR MOUNTED SQUARE 24" X 24" HIGH IMPACT RESISTANT DURASTONE STRUCTURAL FIBBER GLASS MOP SERVICE BASIN.
FAUCET						MUSTEE MODEL No. 63.600A SERVICE FAUCET, HEAVY DUTY, CHROME PLATED BRASS DUAL HANDLE SINK FAUCET WITH TOP REINFORCING BAR AND PAIL HOOK ON SPOUT.
ACCESSORIES						MUSTEE MODEL No. 65.60 MOP HANGER, MUSTEE MODEL No. 65.700 HOSE AND HOSE HOLDER.

* - REFER TO DRAWINGS FOR SIZING.
GENERAL NOTES:
1. FOR ALL SUPPLY STOPS AND TRIM REFER TO THE PLUMBING FIXTURE SUPPLIES AND TRIM SCHEDULE.
2. FOR MOUNTING HEIGHTS OF INDIVIDUAL FIXTURES, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
3. CONTRACTOR TO COORDINATE LOCATION OF DRAINS AND FLOOR SINKS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

PLUMBING FIXTURE SCHEDULE

PLAN MARK	MINIMUM ROUGH-IN SIZES					DESCRIPTION
	WASTE & VENT		DRAIN	CW	HW	
THERMOSTATIC MIXING VALVE TMV-1	---	---	---	1/2"	1/2"	LEONARD MODEL: 270-LF ADJUSTABLE POINT-OF-USE LEAD FREE THERMOSTATIC MIXING VALVE, ASSE 1070 WITH INLET CHECK STOPS TO LIMIT HOT WATER TEMPERATURE. SET TEMPERATURE AT 110°. PROVIDE WITH MOUNTING BRACKET.
FLOOR DRAIN FD-1	3"	2"	3"	---	---	ZURN No. ZN-415 CAST IRON DRAIN WITH 6" DIAMETER TYPE 'B' STRAINER AND 1/2" IPS TRAP PRIMER CONNECTION. FOR FLOOR DRAIN BODY POURED IN CONCRETE SLAB PROVIDE ZURN Z1023 TRAP PRIMER EXTENSION. PROVIDE SQUARE TYPE GRATE COVER.
FLOOR DRAIN FD-2	3"	2"	3"	---	---	ZURN No. ZN-415 CAST IRON DRAIN WITH 7" DIAMETER TYPE 'E' STRAINER, TRAP PRIMER CONNECTION AND 4" DIAMETER FUNNEL GRATE. FOR FLOOR DRAIN BODY POURED IN CONCRETE SLAB PROVIDE ZURN Z1023 TRAP PRIMER EXTENSION.
TRAP PRIMER TP-1	---	---	---	1/2"	---	PRECISION PLUMBING PRODUCTS, INC. FLUSH VALVE PRIMER No. FVP-1VB WITH VACUUM BREAKER TRAP REFILL SUPPLY. CONTRACTOR TO INSTALL PRIMER ON NEAREST WATER CLOSET TO FLOOR DRAIN SUPPLIED. ALL EXPOSED PIPING SHALL BE CHROME PLATED AND CONCEALED SUPPLY TUBING SHALL BE 1/2" TYPE "K" SOFT COPPER.
TRAP PRIMER TP-2	---	---	---	1/2"	---	PRECISION PLUMBING PRODUCTS, INC. No. PO-500 AUTOMATIC PRESSURE DROP TRAP PRIMER VALVE. INSTALL CONCEALED IN ACCESSIBLE LOCATION, BEHIND APPROVED ACCESS PANEL OR EXPOSED IN MECHANICAL EQUIPMENT AREAS WITH TRAP PRIMER DISTRIBUTION UNIT. INSTALL AT MINIMUM 15" A.F.F.
WALL CLEANOUT WCO	---	---	---	---	---	ZURN No. ZN-1440 DURO-COATED CAST IRON CLEANOUT TEE WITH COUNTER-SUNK GASKET, WATERTIGHT THREADED PLUG AND ZURN 1460 SQUARE SMOOTH ACCESS COVER WITH VANDAL PROOF SCREWS.
FLOOR CLEANOUT FCO	---	---	---	---	---	ZURN No ZN-1400 CAST IRON CLEANOUT WITH COUNTER-SUNK PLUG AND ROUND SCORIATED TOP FOR GENERAL PURPOSE AREAS. PROVIDE VARIATION AS REQUIRED FOR FLOOR FINISH WHERE INSTALLED. SEE ARCHITECT DWG'S FOR FLOOR TYPES.
GRADE CLEANOUT GCO	---	---	---	---	---	ZURN No. Z-1402 DURO-COATED CAST IRON CLEANOUT WITH WATERTIGHT COUNTER-SUNK PLUG AND SCORIATED SECURED TOP WITH FRAME. INSTALL IN 18"x18"x8" THICK CONCRETE PAD.

* - REFER TO DRAWINGS FOR SIZING.
GENERAL NOTES:
1. FOR ALL SUPPLY STOPS AND TRIM REFER TO THE PLUMBING FIXTURE SUPPLIES AND TRIM SCHEDULE.
2. FOR MOUNTING HEIGHTS OF INDIVIDUAL FIXTURES, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
3. CONTRACTOR TO COORDINATE LOCATION OF DRAINS AND FLOOR SINKS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

ELECTRIC WATER HEATER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL #	TYPE	FUEL	GALLONS	HEATING LOAD (BTU/hr)	CW INLET	HW OUTLET	GPH RECOVERY @ 80° TEMP RISE	STANDBY LOSS (%/hour)	ELECTRICAL REQUIREMENTS			
											VOLTS (V)	PHASE	KW	AMPS
ELECTRIC WATER HEATER EWH-2	A.O. SMITH	DEL-40	STORAGE TANK	ELECTRIC	40	13,649	1-1/4"	1-1/4"	15	0.87	480	3	4.0	4.8

NOTES:
1. PROVIDE WITH WALL MOUNTED WATER HEATER PLATFORM.
2. PROVIDE ASME TEMPERATURE AND PRESSURE RELIEF VALVE, AND DIAL THERMOMETER IN HW OUTLET PIPING
3. FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS, VERIFY WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

PLAN MARK	MANUFACTURER	MODEL #	DESCRIPTION	ELECTRICAL REQUIREMENTS			
				VOLTS (V)	PHASE	KW	HP
CIRCULATION PUMP CP-2 (EWH-2)	GRUNDFOS	UP26-96SF	ALL STAINLESS STEEL FLANGED PUMP, 1/25 HP WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS AND FITTED WITH REMOTE HEAT SENSING AQUASTAT CONTROLLER. CONTROLLED BY ELECTRICAL CONTRACTOR, DESIGNED AT 15 FT HEAD LOSS.	115	1	85 W	0.04
THERMAL EXPANSION TANK ET-2	AMTROL	THERM-X-TROL MODEL ST-5-C	ASME THERMAL EXPANSION ABSORBERS, SAFETY RELIEF VALVE, MAXIMUM WORKING PRESSURE 150 PSIG, TOTAL VOLUME 2.0 GALLONS.	--	--	--	--

PLUMBING FIXTURE SUPPLIES AND TRIM

FIXTURE	MANUFACTURER	STRAINER	P-TRAP	SIZE	ANGLE STOP AND SUPPLY RISER
LAVATORY	McGUIRE	HD155A	8872	1-1/4"	LFBV2165-LK, 1/2" I.P.S. X 3/8" O.D.
DRINKING FOUNTAIN	McGUIRE	HD155A	8872	1-1/4"	LFBV2165-LK, 1/2" I.P.S. X 3/8" O.D.
SINK	McGUIRE	152N	8912	1-1/2"	LFBV2165-LK, 1/2" I.P.S. X 3/8" O.D.
2 COMPARTMENT SINK, NO DISPENSER	McGUIRE	(2) 152N WITH CONTINUOUS WASTE 111C16G17	8912	1-1/2"	LFBV2165-LK, 1/2" I.P.S. X 3/8" O.D.

NOTE:
1. STRAINERS SHALL BE HEAVY CAST BRASS CHROME PLATED WITH MATCHING GRID TYPE STRAINER, WITH OR WITHOUT OVERFLOW AS REQUIRED. 17 GAUGE SEAMLESS BRASS TAILPIECE OF LENGTH DETERMINED BY INSTALLATION REQUIREMENTS. PROVIDE COMPLETE WITH WASHERS AND BRASS LOCKNUT.
2. P-TRAPS SHALL BE 17 GAUGE SEAMLESS CHROME-PLATED BRASS, ADJUSTABLE TYPE. PROVIDE COMPLETE WITH CLEANOUT PLUG, CHROME-PLATED BRASS SLIP NUTS, WALL BEND, AND WROUGHT BRASS ESCUTCHEON OF DEPTH DETERMINED BY INSTALLATION REQUIREMENTS.
3. ANGLE STOPS SHALL BE LEAD-FREE COMMERCIAL PATTERN CHROME-PLATED BRASS, QUARTER-TURN BALL TYPE WITH LOOSE KEY HANDLES. PROVIDE COMPLETE WITH CHROME-PLATED COPPER SUPPLY RISERS AND WROUGHT BRASS ESCUTCHEON OF DEPTH DETERMINED BY INSTALLATION REQUIREMENTS.
4. PIPE TRIM INSULATION SHALL BE COMPLIANT, WHITE MOLDED VINYL, FADE/DISCOLORATION-RESISTANT, BACTERIA/FUNGAL-RESISTANT INSULATION.
5. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CARRIER.

PIPING MATERIAL SCHEDULE

PIPING SYSTEM	PIPING MATERIAL
DOMESTIC HOT& COLD WATER PIPING, WITHIN BUILDING BELOW GRADE	COPPER TUBING: ASTM B88, TYPE K, SOFT ANNEALED
DOMESTIC HOT& COLD WATER PIPING, WITHIN BUILDING ABOVE GRADE	COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN.
FIRE SPRINKLER BELOW GROUND	DUCTILE IRON
FIRE SPRINKLER ABOVE GROUND - 2" AND SMALLER (WET PIPE SPRINKLER)	ASTM A135/A135M / ASTM A53/A53M SCHEDULE 10 BLACK STEEL PIPE WITH ROLL-GROOVED ENDS, JOINED WITH MECHANICAL COUPLINGS AND WITH MANUFACTURED CARBON STEEL GROOVED FITTINGS WITH MATCHING MECHANICAL COUPLINGS FOR PIPE 2-1/2" AND LARGER.
FIRE SPRINKLER ABOVE GROUND - 2-1/2" AND LARGER (WET PIPE SPRINKLER)	ASTM A135/A135M / ASTM A53/A53M SCHEDULE 10 BLACK STEEL PIPE WITH ROLL-GROOVED ENDS, JOINED WITH MECHANICAL COUPLINGS AND WITH MANUFACTURED CARBON STEEL GROOVED FITTINGS WITH MATCHING MECHANICAL COUPLINGS FOR PIPE 2-1/2" AND LARGER.
SANITARY SOIL, WASTE AND VENT PIPING, BURIED WITHIN 5 FT OF BUILDING, BELOW GRADE	PVC PIPE: ASTM D1785 / ASTM D2665 SCHEDULE 40 SOLID WALL; INSTALLED PER ASTM D2321.
SANITARY SOIL, WASTE AND VENT PIPING, WITHIN BUILDING, ABOVE GRADE	CAST IRON PIPE: CISPI 301 OR ASTM A888, HUBLESS.

GENERAL NOTES:
1. REFER TO PROJECT SPECIFICATIONS FOR FURTHER CLARIFICATION AND COMPLETE PIPING DESCRIPTION.

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3 04-06-26 OWNER VE

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PLUMBING SCHEDULES

P5.01

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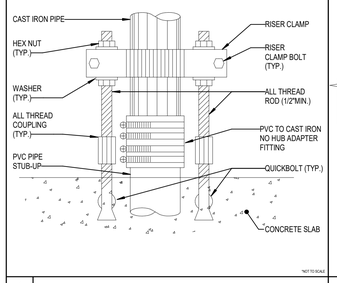
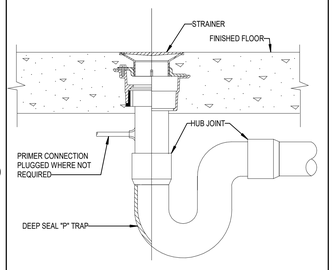
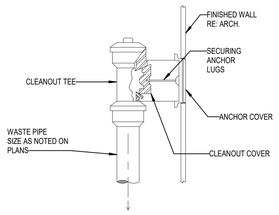


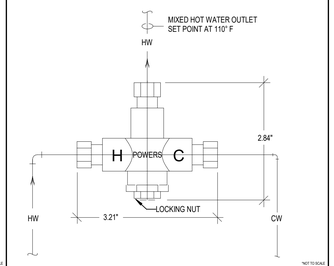
1 PVC TO CAST IRON SUPPORT P1006



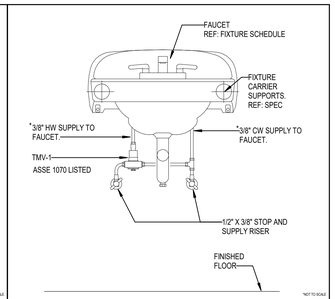
2 FLOOR DRAIN P1040



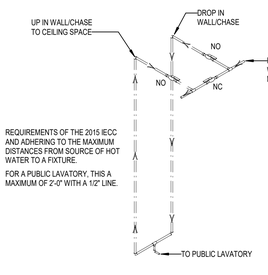
3 WALL CLEANOUT - FIRE DEPT. P1071



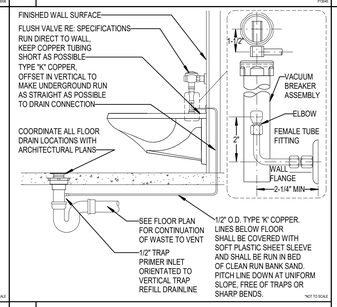
4 THERMOSTATIC MIXING VALVE P1058



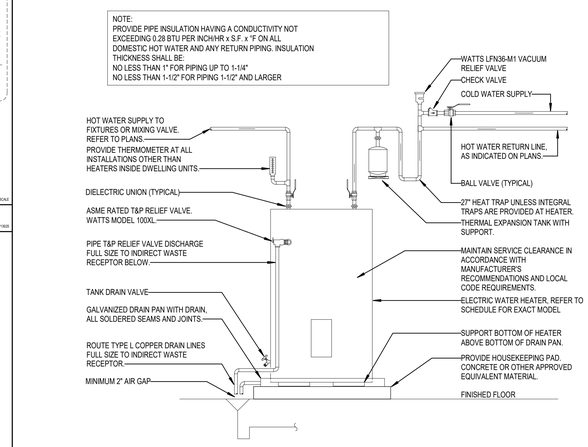
5 TMV-1 INSTALLATION P1054



6 HOT WATER LOOP W/BYPASS P1060



7 TRAP PRIMER P1062



8 FLOOR MOUNTED ELECTRIC WATER HEATER W/HOT WATER RETURN P1800

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PLUMBING DETAILS

P6.01

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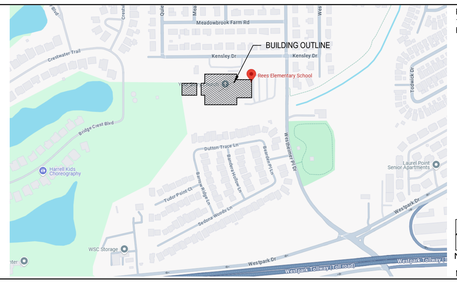
ALIEF ISD RESTROOM RENOVATION - PACKAGE I

REES ELEMENTARY SCHOOL

16305 KENSLEY DRIVE
HOUSTON, TEXAS 77082

ISSUE FOR BID & PERMIT
OCTOBER 31, 2025

PROJECT LOCATION



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PROJECT ADDRESS:
16305 KENSLEY DRIVE
HOUSTON, TEXAS 77082

PROJECT INFORMATION

SCOPE OF WORK: THE SCOPE OF THIS PROJECT IS AN INTERIOR IMPROVEMENT OF SELECT EXISTING RESTROOMS AND REPLACING SELECT EXISTING DRINKING FOUNTAINS WITHIN AN EXISTING ELEMENTARY SCHOOL. WORK TO INCLUDE NEW WALLS, DOORS, AND FINISHES; WITH SOME MECHANICAL, ELECTRICAL AND PLUMBING ADJUSTMENTS.

NO CHANGE TO OCCUPANCY TYPE.

TABS#: TABS2026004777

GOVERNING CODES & REGULATIONS:

GOVERNING AHJ:	CITY OF HOUSTON STATE OF TEXAS
BUILDING CODE:	2021 INTERNATIONAL BUILDING CODE (W/ HOUSTON AMENDMENTS)
MECHANICAL CODE:	2021 UNIFORM MECHANICAL CODE (W/ HOUSTON AMENDMENTS)
ELECTRICAL CODE:	2023 NATIONAL ELECTRICAL CODE
PLUMBING CODE:	2021 UNIFORM PLUMBING CODE (W/ HOUSTON AMENDMENTS)
FIRE CODE:	2021 INTERNATIONAL FIRE CODE (W/ HOUSTON AMENDMENTS)
ENERGY CODE:	2021 INTERNATIONAL ENERGY CONSERVATION CODE (W/ HOUSTON AMENDMENTS)
ACCESSIBILITY:	2012 TEXAS ACCESSIBILITY STANDARDS

BUILDING OWNER: ALIEF ISD ADMINISTRATION BUILDING
4250 COOK ROAD
HOUSTON, TX 77072
JESSE GONZALEZ
281.498.8110 EXT 29582
JESSE.GONZALEZ@ALIEFISD.NET

PROJECT TEAM

CLIENT NAME	ALIEF ISD ADMINISTRATION BUILDING 4250 COOK ROAD HOUSTON, TX 77072	JESSE GONZALEZ 281.498.8110 EXT 29582 jesse.gonzalez@aliefisd.net
OWNDER'S REPRESENTATIVE	ALIEF ISD ADMINISTRATION BUILDING 4250 COOK ROAD HOUSTON, TX 77072	JESSE GONZALEZ 281.498.8110 EXT 29582 jesse.gonzalez@aliefisd.net
ARCHITECT	DLR GROUP 1000 LOUISIANA STREET, SUITE 1100 HOUSTON, TX 77002	AJ SUSTAITA 713.561.3925 asustaita@drgroup.com
MEP ENGINEER	DBR INC. 9990 RICHMOND AVE, SUITE 300 HOUSTON, TX 77042	BRENT MOE 713.914.0888 bmoe@dbrinc.com

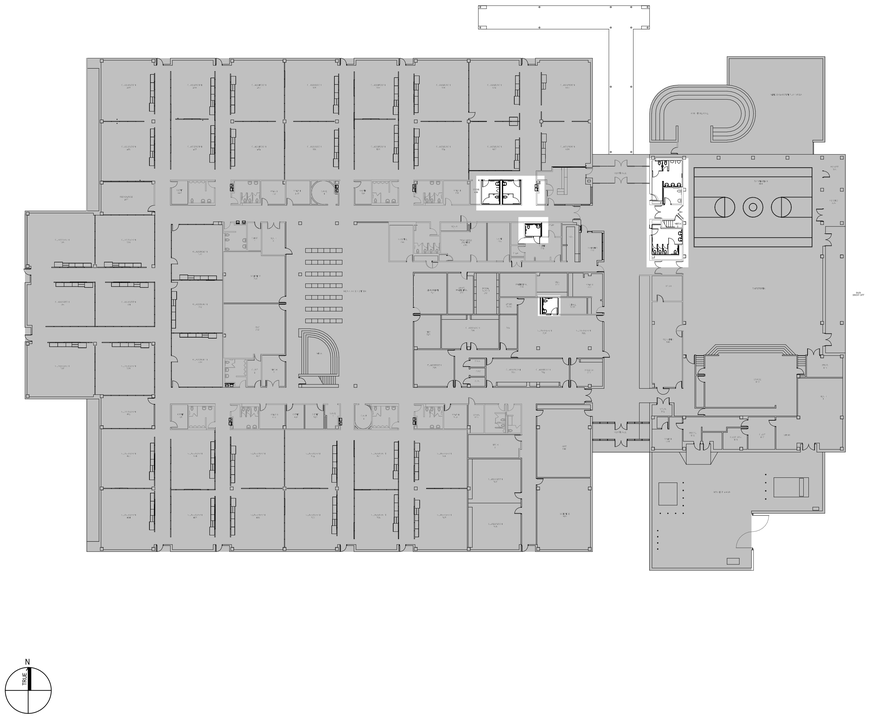
ALTERNATE PRICING

1. X
2. X

DEFERRED SUBMITTALS

MODIFICATIONS TO THE EXISTING SPRINKLERS AND FIRE ALARMS SHALL BE SUBMITTED AND PERMITTED SEPARATELY, PRIOR TO THEIR MODIFICATIONS.

KEY PLANS



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CP1.2	TEXAS ADA
CP1.3	PLUMBING FIXTURE COUNT

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A2.6	ENLARGED FLOOR PLANS
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G0.1

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Area/Occupant Load Schedule (Code Analysis)

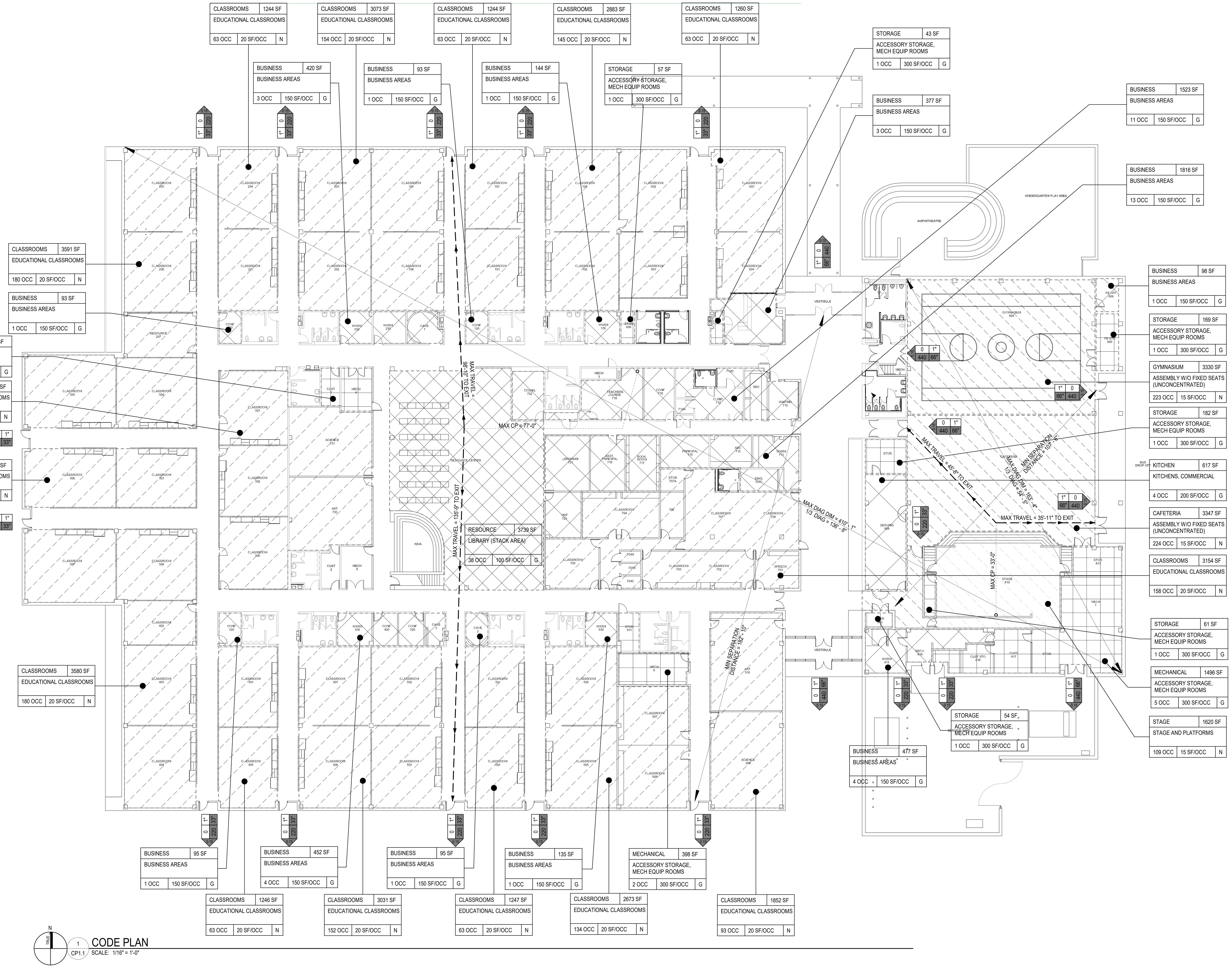
Name	Function of Space	Area	Occupancy Load Factor	OLF
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	57 SF	300	1
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	273 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	43 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	182 SF	300	1
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	1496 SF	300	5
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	61 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	54 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	169 SF	300	1
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	398 SF	300	2
CAFETERIA	ASSEMBLY W/O FIXED SEATS (UNCONCENTRATED)	3347 SF	15	224
GYMNASIUM	ASSEMBLY W/O FIXED SEATS (UNCONCENTRATED)	3330 SF	15	222
BUSINESS	BUSINESS AREAS	93 SF	150	1
BUSINESS	BUSINESS AREAS	420 SF	150	3
BUSINESS	BUSINESS AREAS	93 SF	150	1
BUSINESS	BUSINESS AREAS	144 SF	150	1
BUSINESS	BUSINESS AREAS	377 SF	150	3
BUSINESS	BUSINESS AREAS	477 SF	150	4
BUSINESS	BUSINESS AREAS	98 SF	150	1
BUSINESS	BUSINESS AREAS	452 SF	150	4
BUSINESS	BUSINESS AREAS	95 SF	150	1
BUSINESS	BUSINESS AREAS	135 SF	150	1
BUSINESS	BUSINESS AREAS	95 SF	150	1
BUSINESS	BUSINESS AREAS	1523 SF	150	11
BUSINESS	BUSINESS AREAS	1816 SF	150	13
CLASSROOMS	EDUCATIONAL CLASSROOMS	3591 SF	20	180
CLASSROOMS	EDUCATIONAL CLASSROOMS	3580 SF	20	179
CLASSROOMS	EDUCATIONAL CLASSROOMS	1326 SF	20	67
CLASSROOMS	EDUCATIONAL CLASSROOMS	3073 SF	20	154
CLASSROOMS	EDUCATIONAL CLASSROOMS	1244 SF	20	63
CLASSROOMS	EDUCATIONAL CLASSROOMS	1244 SF	20	63
CLASSROOMS	EDUCATIONAL CLASSROOMS	2883 SF	20	145
CLASSROOMS	EDUCATIONAL CLASSROOMS	1260 SF	20	63
CLASSROOMS	EDUCATIONAL CLASSROOMS	3519 SF	20	176
CLASSROOMS	EDUCATIONAL CLASSROOMS	1246 SF	20	63
CLASSROOMS	EDUCATIONAL CLASSROOMS	3031 SF	20	152
CLASSROOMS	EDUCATIONAL CLASSROOMS	1247 SF	20	63
CLASSROOMS	EDUCATIONAL CLASSROOMS	2673 SF	20	134
CLASSROOMS	EDUCATIONAL CLASSROOMS	1852 SF	20	93
CLASSROOMS	EDUCATIONAL CLASSROOMS	3154 SF	20	158
KITCHEN	KITCHENS, COMMERCIAL	617 SF	200	4
RESOURCE	LIBRARY (STACK AREA)	3739 SF	100	38
STAGE	STAGE AND PLATFORMS	1620 SF	15	108
		56126 SF		2408

1,840 BASED ON TEA

1,840 OCCUPANTS BASED ON TEA

TOTAL OCCUPANT LOAD = 2,408 OCCUPANTS

TOTAL EXIT CAPACITY = 5,280 OCCUPANTS



1 CODE PLAN
CP1.1 SCALE: 1/16" = 1'-0"

LEGEND - CODE FLOOR PLANS

Area name	XXXX SF	
Space Function		
XXX OCC	XXX SF/OCC	G

— ROOM NUMBER
XXXX SF — AREA (SF)
XXX — OCCUPANT LOAD

NAME — ROOM NAME
XXXX SF — AREA (SF)
XXX — OCCUPANT LOAD

EXIT TAG
- CUMULATIVE OCCUPANT LOAD
- EGRESS CAPACITY

REQUIRED OCCUPANT LOAD
REQUIRED WIDTH FOR OCCUPANT LOAD (INCHES)
0 1" / 0 0" (0.15)
CAPACITY OF EGRESS COMPONENT (WIDTH IN INCHES)
CAPACITY OF EGRESS COMPONENT (OCCUPANTS)
EGRESS CAPACITY FACTOR (INCHES/OCCUPANT)
- WHEN CAPACITY FACTOR TRIANGLE IS FILLED - THIS IS TOTAL OCCUPANT LOAD AT THIS EXIT FROM THIS STORY

PD XX MIN — DOOR TAG
- PANIC DEVICE
- DOOR FIRE RATING

EXIT SIGN

MAX TRAVEL = Length — EXIT ACCESS TRAVEL DISTANCE

MAX CP = Length — COMMON PATH OF EGRESS TRAVEL DISTANCE

MAX DIAG DIM = X'-X" / 1/3 DIAG = X'-X" — MAX OVERALL DIAGONAL DIM OF AREA SERVED

MIN SEPARATION DISTANCE = X'-X" — MIN EXIT SEPARATION

SEPARATION LEGEND

HOURLY RATING
0 = 0 HOUR
5 = 1/2 HOUR
1 = 1 HOUR
2 = 2 HOUR
3 = 3 HOUR
4 = 4 HOUR

FIRE AND SMOKE SEPARATION TYPES
C = CORRIDOR (CYAN)
EW = EXTERIOR WALL (PURPLE)
FW = FIRE WALL (BLUE)
FB = FIRE BARRIER (RED)
FP = FIRE PARTITION (MAGENTA)
SP = SMOKE PARTITION (GREEN)
SB = SMOKE BARRIER (GREEN)
VS = VERTICAL SHAFT (ORANGE)
VX = VERTICAL EXIT ENCLOSURE (ORANGE)
XP = EXIT PASSAGEWAY (YELLOW)

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Rees ELEMENTARY PERFORMING AND VISUAL ARTS ACADEMY

REES E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

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1 02-11-26 ISSUE FOR BID & PERMIT

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CODE PLAN

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2012 TAS Standards for Accessible Design

for Public Accomodations and Commercial Facilities: Title III

CHAPTER 3: BUILDING BLOCKS

301 General

301.1 Scope. The provisions of Chapter 3 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

302 Floor or Ground Surfaces

302.1 General. Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302.

EXCEPTIONS:
1. Within animal containment areas, floor and ground surfaces shall not be required to be stable, firm, and slip resistant.
2. Areas of sport activity shall not be required to comply with 302.

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed edge. Carpet edge trim shall comply with 303.

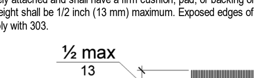

Figure 302.2 Carpet Pile Height

302.3 Openings. Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.

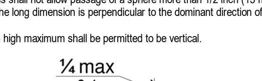

Figure 303.2 Vertical Change in Level

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

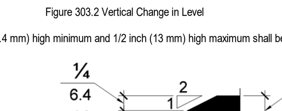

Figure 303.3 Beveled Change in Level

303.4 Ramps. Changes in level greater than 1/2 inch (13 mm) high shall be ramped, and shall comply with 405 or 406.

304 Turning Space

304.1 General. Turning space shall comply with 304.

304.2 Floor or Ground Surfaces. Floor or ground surfaces of a turning space shall comply with 302. Changes in level are not permitted.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

304.3 Size. Turning space shall comply with 304.3.1 or 304.3.2.

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

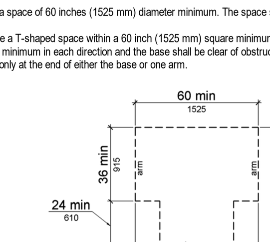

Figure 304.3.2 T-Shaped Turning Space

304.4 Door Swing. Doors shall be permitted to swing into turning spaces.

305 Clear Floor or Ground Space

305.1 General. Clear floor or ground space shall comply with 305.

305.2 Floor or Ground Surfaces. Floor or ground surfaces of a clear floor or ground space shall comply with 302. Changes in level are not permitted.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

305.3 Size. The clear floor or ground space shall be 30 inches (760 mm) minimum by 48 inches (1220 mm) minimum.

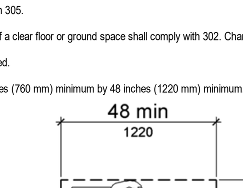

Figure 305.3 Clear Floor or Ground Space

305.4 Knee and Toe Clearance. Unless otherwise specified, clear floor or ground space shall be permitted to include knee and toe clearance complying with 306.

305.5 Position. Unless otherwise specified, clear floor or ground space shall be positioned for either forward or parallel approach to an element.

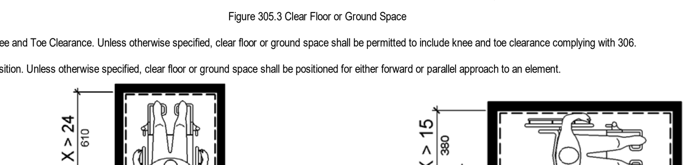

Figure 305.5 Position of Clear Floor or Ground Space

305.6 Approach. One full unobstructed side of the clear floor or ground space shall adjoin an accessible route or adjoin another clear floor or ground space.

305.7 Maneuvering Clearance. Where a clear floor or ground space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearance shall be provided in accordance with 305.7.1 and 305.7.2.

305.7.1 Forward Approach. Alcoves shall be 36 inches (915 mm)wide minimum where the depth exceeds 24 inches (610 mm).

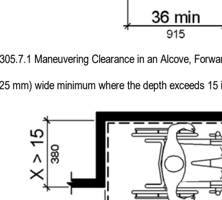

Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

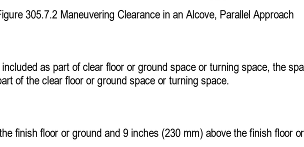

Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

306 Knee and Toe Clearance

306.1 General. Where space beneath an element is included as part of clear floor or ground space or turning space, the space shall comply with 306. Additional space shall not be prohibited beneath an element but shall not be considered as part of the clear floor or ground space or turning space.

306.2 Toe Clearance.

306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

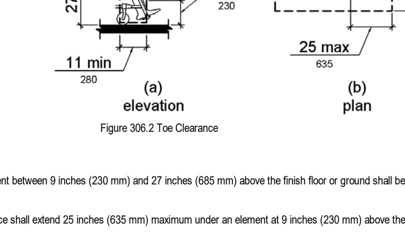

Figure 306.2 Toe Clearance

306.3 Knee Clearance.

306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.

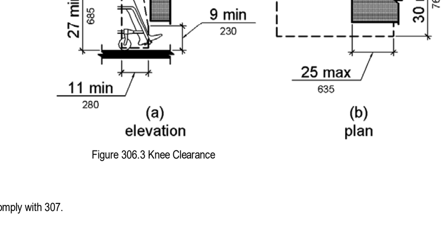

Figure 306.3 Knee Clearance

307 Protruding Objects

307.1 General. Protruding objects shall comply with 307.

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

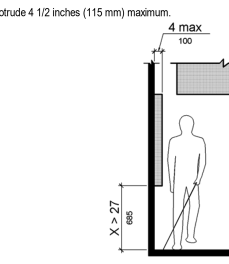

Figure 307.2 Limits of Protruding Objects

307.3 Post-Mounted Objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum above the finish floor or ground.

EXCEPTION: The sloping portions of handrails serving stairs and ramps shall not be required to comply with 307.3.

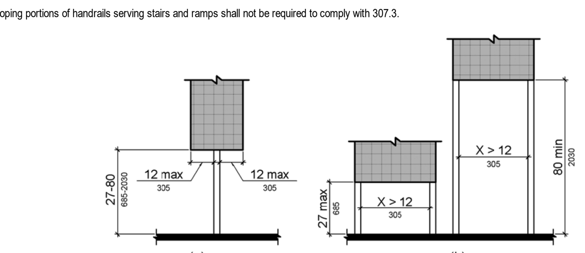

Figure 307.3 Post-Mounted Protruding Objects

307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

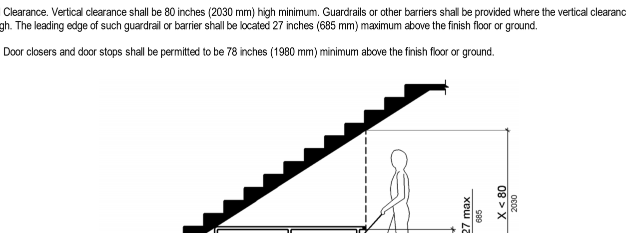

Figure 307.4 Vertical Clearance

307.5 Required Clear Width. Protruding objects shall not reduce the clear width required for accessible routes.

308 Reach Ranges

308.1 General. Reach ranges shall comply with 308.

Children's Reach Ranges			
Forward or Side Reach	Ages 3 and 4	Ages 5 through 8	Ages 9 through 12
High (maximum)	36 in (915 mm)	40 in (1015 mm)	44 in (1120 mm)
Low (minimum)	20 in (510 mm)	18 in (455 mm)	16 in (405 mm)

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

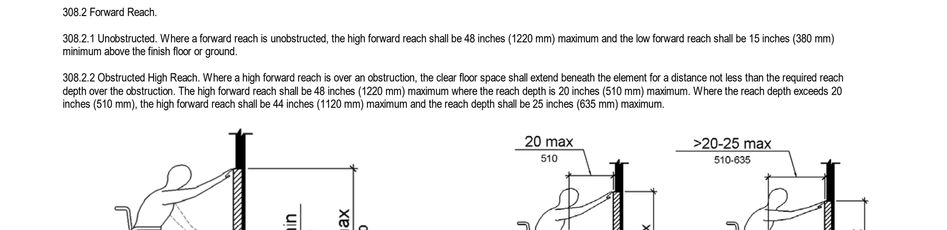

Figure 308.2.1 Unobstructed Forward Reach

Figure 308.2.2 Obstructed High Forward Reach

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

EXCEPTIONS:
1. An obstruction shall be permitted between the clear floor or ground space and the element where the depth of the obstruction is 10 inches (255 mm) maximum.
2. Operable parts of fuel dispensers shall be permitted to be 54 inches (1370 mm) maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs.

308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

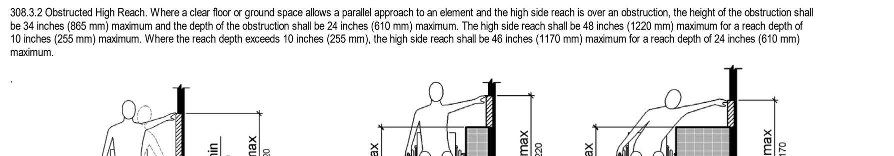

Figure 308.3.1 Unobstructed Side Reach

Figure 308.3.2 Obstructed High Side Reach

CHAPTER 4: ACCESSIBLE ROUTES

401 General

401.1 Scope. The provisions of Chapter 4 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

402 Accessible Routes

402.1 General. Accessible routes shall comply with 402.

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

403 Walking Surfaces

403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

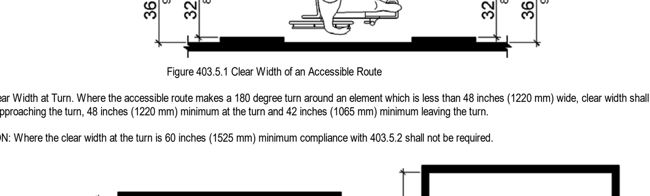

Figure 403.5.1 Clear Width of an Accessible Route

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

EXCEPTION: Where the clear width at the turn is 60 inches (1525 mm) minimum compliance with 403.5.2 shall not be required.

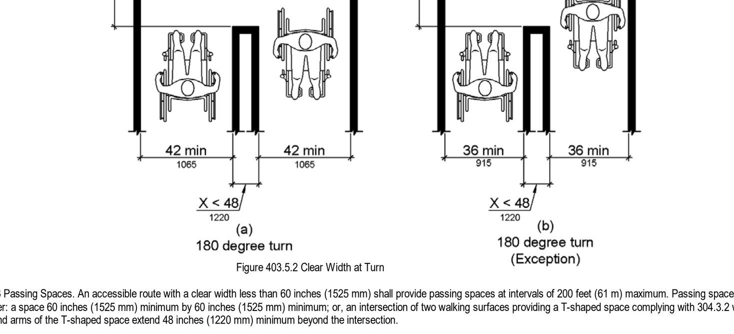

Figure 403.5.2 Clear Width at Turn

403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum. Passing spaces shall be either: a space 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum; or, an intersection of two walking surfaces providing a T-shaped space complying with 304.3.2 where the base and arms of the T-shaped space extend 48 inches (1220 mm) minimum beyond the intersection.

403.6 Handrails. Where handrails are provided along walking surfaces with running slopes not steeper than 1:20 they shall comply with 505.

404 Doors, Doorways, and Gates

404.1 General. Doors, doorways, and gates that are part of an accessible route shall comply with 404.

EXCEPTION: Doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with 404.2.7, 404.2.8, 404.2.9, 404.3.2 and 404.3.4 through 404.3.7.

404.2 Manual Doors, Doorways, and Manual Gates. Manual doors and doorways and manual gates intended for user passage shall comply with 404.2.

404.2.1 Revolving Doors, Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

404.2.2 Double-Leaf Doors and Gates. At least one of the active leaves of doorways with two leaves shall comply with 404.2.3 and 404.2.4.

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

EXCEPTIONS:
1. In alterations, a projection of 5/8 inch (16 mm) maximum into the required clear width shall be permitted for the latch side stop.
2. Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

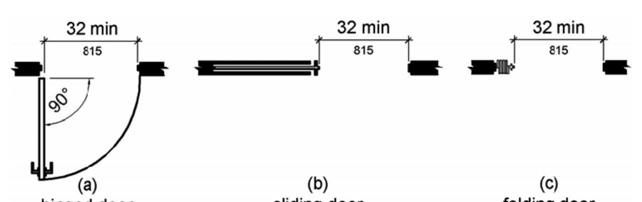

Figure 404.2.3 Clear Width of Doorways

404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

EXCEPTION: Entry doors to hospital patient rooms shall not be required to provide the clearance beyond the latch side of the door.

404.2.4.1 Swinging Doors and Gates. Swinging doors and gates shall have maneuvering clearances complying with Table 404.2.4.1.

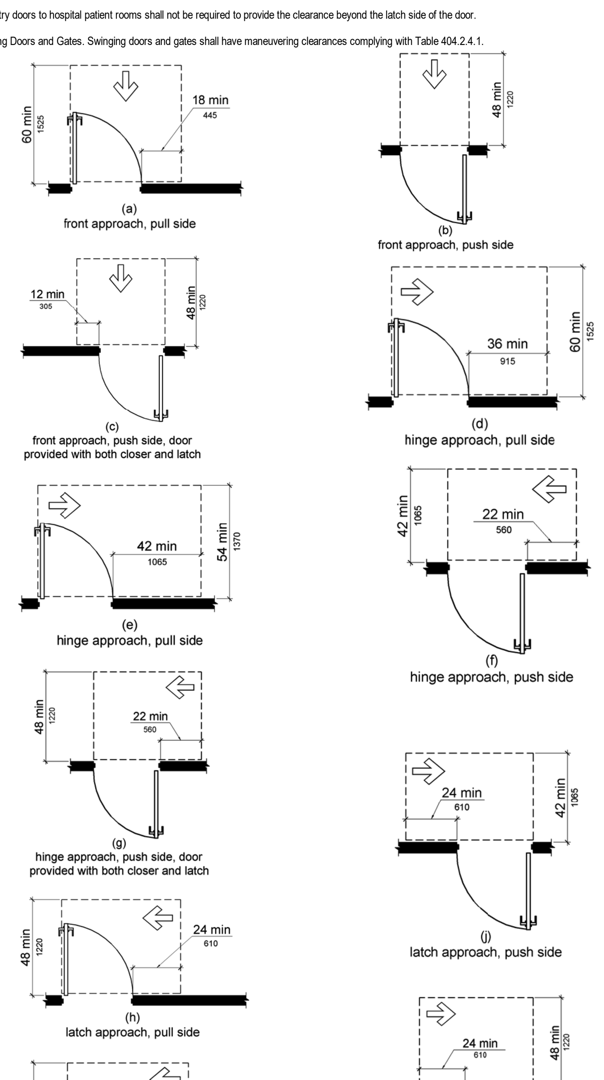

Figure 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates

404.2.4.2 Doorways without Doors or Gates, Sliding Doors, and Folding Doors. Doorways less than 36 inches (915 mm) wide without doors or gates, sliding doors, or folding doors shall have maneuvering clearances complying with Table 404.2.4.2.

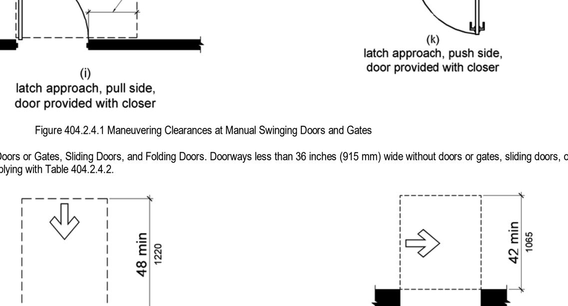

Figure 404.2.4.2 Maneuvering Clearances at Doorways Without Doors, Sliding Doors, Gates, and Folding Doors

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

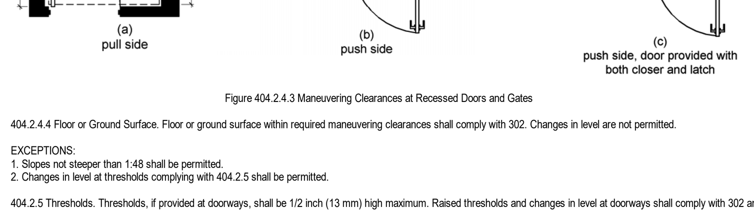

Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

404.2.4.4 Floor or Ground Surface. Floor or ground surface within required maneuvering clearances shall comply with 302. Changes in level are not permitted.

EXCEPTIONS:
1. Slopes not steeper than 1:48 shall be permitted.
2. Changes in level at thresholds complying with 404.2.5 shall be permitted.

404.2.5 Thresholds. Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303.

EXCEPTION: Existing or altered thresholds 3/4 inch (19 mm) high maximum that have a beveled edge on each side with a slope not steeper than 1:2 shall not be required to comply with 404.2.5.

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

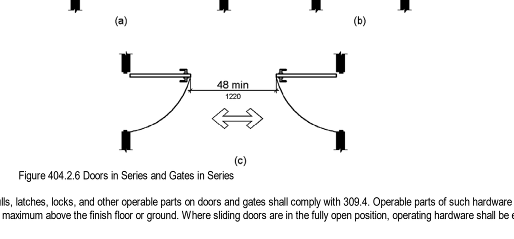

Figure 404.2.6 Doors in Series and Gates in Series

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

405 Ramps

405.1 General. Ramps on accessible routes shall comply with 405.

EXCEPTION: In assembly areas, aisle ramps adjacent to seating and not serving elements required to be on an accessible route shall not be required to comply with 405.

405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.

EXCEPTION: In existing sites, buildings, and facilities, ramps shall be permitted to have running slopes steeper than 1:12 complying with Table 405.2 where such slopes are necessary due to space limitations.

Table 405.2 Maximum Ramp Slope and Rise for Existing Sites, Buildings, and Facilities

Slope (A slope steeper than 1:8 is prohibited)	Maximum Rise
Steeper than 1:10 but not steeper than 1:8	3 inches (75 mm)
Steeper than 1:12 but not steeper than 1:10	6 inches (150 mm)

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

405.4 Floor or Ground Surfaces. Floor or ground surfaces of ramp runs shall comply with 302. Changes in level other than the running slope and cross slope are not permitted on ramp runs.

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.

EXCEPTION: Within employee work areas, the required clear width of ramps that are a part of common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum.

405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run. Landings shall comply with 405.7.

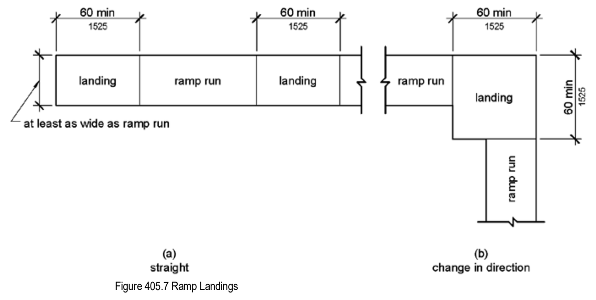

Figure 405.7 Ramp Landings

405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 505.

405.9.2 Curb or Barrier. A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground surface.

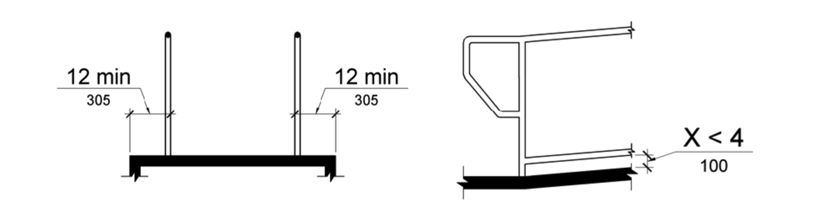

Figure 405.9.1 Extended Floor or Ground Surface Edge Protection

Figure 405.9.2 Curb or Barrier Edge Protection

405.10 Wet Conditions. Landings subject to wet conditions shall be designed to prevent the accumulation of water.

406 Curb Ramps

406.1 General. Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.

406.2 Counter Slope. Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

406.3 Sides of Curb Ramps. Where provided, curb ramp flares shall not be steeper than 1:10.

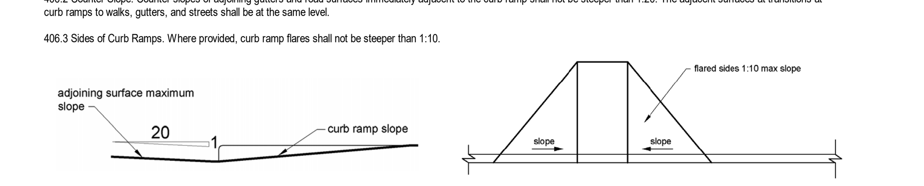

Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps

Figure 406.3 Sides of Curb Ramps

406.4 Landings. Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36 inches (915 mm) minimum. The landing clear width shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing.

EXCEPTION: In alterations, where there is no landing at the top of curb ramps, curb ramp flares shall be provided and shall not be steeper than 1:12.

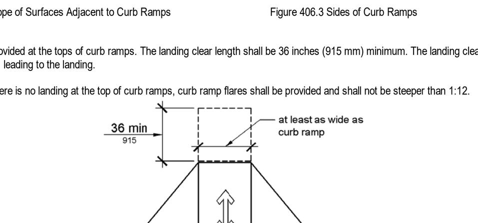

Figure 406.4 Landings at the Top of Curb Ramps

406.5 Location. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.

406.6 Diagonal Curb Ramps. Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have a clear space 48 inches (1220 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1220 mm) minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches (610 mm) long minimum located on each side of the curb ramp and within the marked crossing.

407.2 Elevator Landing Requirements. Elevator landings shall comply with 407.2.

407.2.1 Call Controls. Where elevator call buttons or keypads are provided, they shall comply with 407.2.1 and 309.4. Call buttons shall be raised or flush.

EXCEPTION: Existing elevators shall be permitted to have recessed call buttons.

407.2.1.1 Height. Call buttons and keypads shall be located within one of the reach ranges specified in 308, measured to the centerline of the highest operable part.

EXCEPTION: Existing call buttons and existing keypads shall be permitted to be located at 54 inches (1370 mm) maximum above the finish floor, measured to the centerline of the highest operable part.

407.2.1.2 Size. Call buttons shall be 3/4 inch (19 mm) minimum in the smallest dimension.

EXCEPTION: Existing elevator call buttons shall not be required to comply with 407.2.1.2.

407.2.1.3 Clear Floor or Ground Space. A clear floor or ground space complying with 305 shall be provided at call controls.

407.2.2 Hall Signals. Hall signals, including in-car signals, shall comply with 407.2.2.

407.2.2.1 Visible and Audible Signals. A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel. Where in-car signals are provided, they shall be visible from the floor area adjacent to the hall call buttons.

EXCEPTIONS:
1. Visible and audible signals shall not be required at each destination-oriented elevator where a visible and audible signal complying with 407.2.2 is provided indicating the elevator car designation information.
2. In existing elevators, a signal indicating the direction of car travel shall not be required.

407.2.2.2 Visible Signals. Visible signal fixtures shall be centered at 72 inches (1830 mm) minimum above the finish floor or ground. The visible signal elements shall be 2 1/2 inches (64 mm) minimum measured along the vertical centerline of the element. Signals shall be visible from the floor area adjacent to the hall call button.

EXCEPTIONS:
1. Destination-oriented elevators shall be permitted to have signals visible from the floor area adjacent to the hoistway entrance.
2. Existing elevators shall not be required to comply with 407.2.2.2.

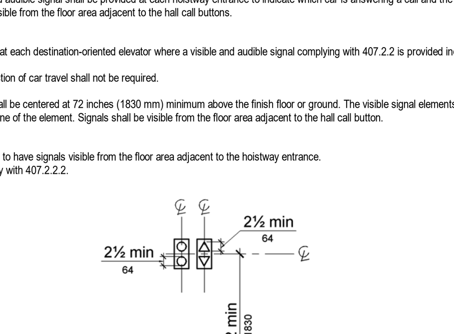

Figure 407.2.2.2 Visible Hall Signals

407.2.3 Hoistway Signs. Signs at elevator hoistways shall comply with 407.2.3.

407.2.3.1 Floor Designation. Floor designations complying with 703.2 and 703.4.1 shall be provided on both jambs of elevator hoistway entrances. Floor designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high minimum. A tactile star shall be provided on both jambs at the main entry level.

Figure 407.2.3.1 Floor Designations on Jambs of Elevator Hoistway Entrances

Figure 407.2.3.2 Car Designations on Jambs of Destination-Oriented Elevator Hoistway Entrances

CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

604 Water Closets and Toilet Compartments

604.1 General. Water closets and toilet compartments shall comply with 604.2 through 604.8.

EXCEPTION: Water closets and toilet compartments for children's use shall be permitted to comply with 604.9.

604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

604.3 Clearance. Clearances around water closets and in toilet compartments shall comply with 604.3.

604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.

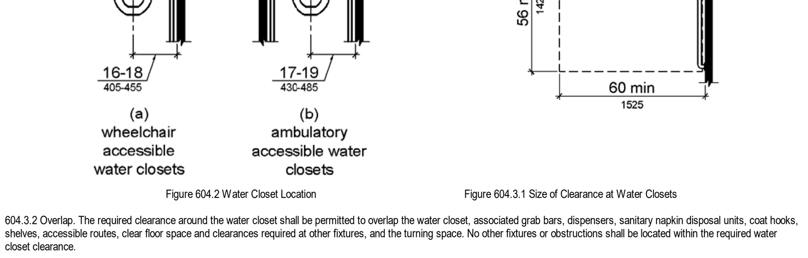

Figure 604.2 Water Closet Location

Figure 604.3.1 Size of Clearance at Water Closets

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

EXCEPTIONS:
1. A water closet in a toilet room for a single occupant accessed only through a private office and not for common use or public use shall not be required to comply with 604.4.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

EXCEPTIONS:
1. Grab bars shall not be required to be installed in a toilet room for a single occupant accessed only through a private office and not for common use or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall.

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

EXCEPTIONS:
1. The rear grab bar shall be permitted to be 24 inches (610 mm) long minimum, centered on the water closet, where wall space does not permit a length of 36 inches (915 mm) minimum due to the location of a recessed fixture adjacent to the water closet.
2. Where an administrative authority requires flush controls for flush valves to be located in a position that conflicts with the location of the rear grab bar, then the rear grab bar shall be permitted to be split or shifted to the open side of the toilet area.

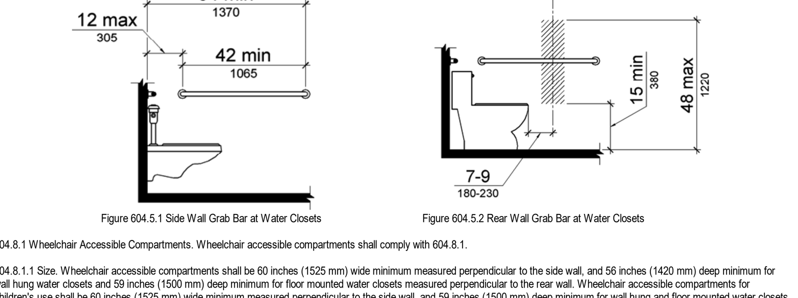

Figure 604.5.1 Side Wall Grab Bar at Water Closets

Figure 604.5.2 Rear Wall Grab Bar at Water Closets

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with 604.8.1.

604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

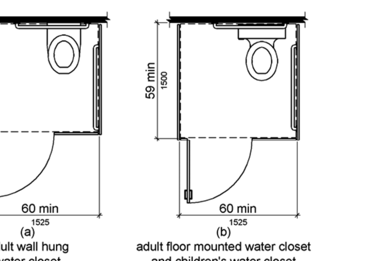

Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

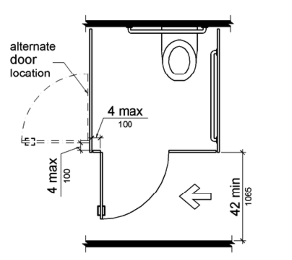

Figure 604.8.1.2 Wheelchair Accessible Toilet Compartment Doors

604.8.1.4 Toe Clearance. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.

EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm) deep.

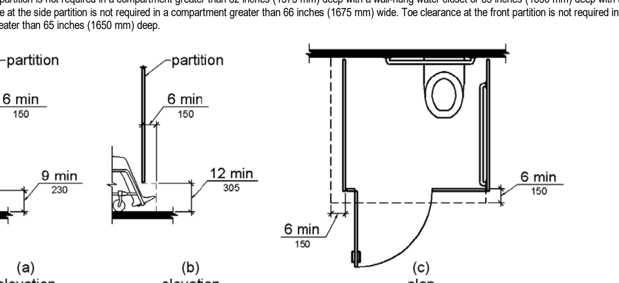

Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply with 604.8.2.

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum.

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.2.3 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

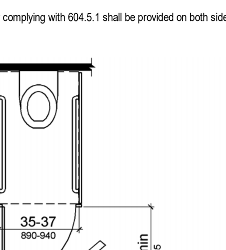

Figure 604.8.2 Ambulatory Accessible Toilet Compartment

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604.9 Water Closets and Toilet Compartments for Children's Use. Water closets and toilet compartments for children's use shall comply with 604.9.

605 Urinals

605.1 General. Urinals shall comply with 605.

605.2 Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

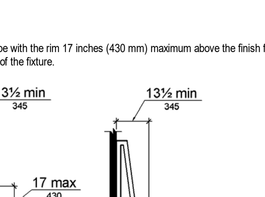

Figure 605.2 Height and Depth of Urinals

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

EXCEPTION: Braille provided on elevator car controls shall be separated 3/16 inch (4.8 mm) minimum and shall be located either directly below or adjacent to the corresponding raised characters or symbols.

703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

EXCEPTION: Tactile characters for elevator car controls shall not be required to comply with 703.4.1.

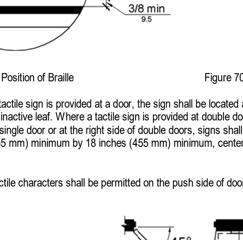

Figure 703.3.2 Position of Braille

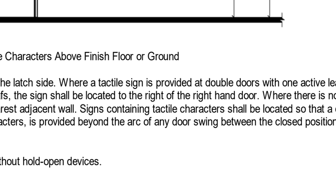

Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

EXCEPTION: Signs with tactile characters shall be permitted on the push side of doors with closers and without hold-open devices.

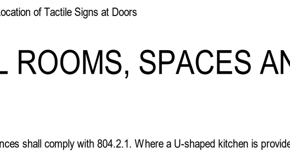

Figure 703.4.2 Location of Tactile Signs at Doors

CHAPTER 8: SPECIAL ROOMS, SPACES AND ELEMENTS

804 Kitchens and Kitchenettes

804.1 General. Kitchens and kitchenettes shall comply with 804.

804.2 Clearance. Where a pass through kitchen is provided, clearances shall comply with 804.2.1. Where a U-shaped kitchen is provided, clearances shall comply with 804.2.2.

EXCEPTION: Spaces that do not provide a cooktop or conventional range shall not be required to comply with 804.2.

Advisory 804.2 Clearance. Clearances are measured from the furthest projecting face of all opposing base cabinets, counter tops, appliances, or walls, excluding hardware.

804.2.1 Pass Through Kitchen. In pass through kitchens where counters, appliances or cabinets are on two opposing sides, or where counters, appliances or cabinets are opposite a parallel wall, clearance between all opposing base cabinets, counter tops, appliances, or walls within kitchen work areas shall be 40 inches (1015 mm) minimum. Pass through kitchens shall have two entries.

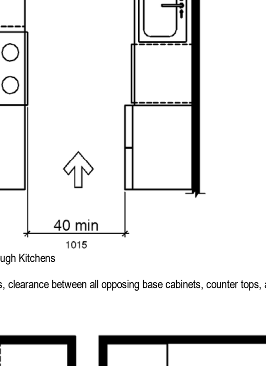

Figure 804.2.1 Pass Through Kitchens

804.2.2 U-Shaped. In U-shaped kitchens enclosed on three contiguous sides, clearance between all opposing base cabinets, counter tops, appliances, or walls within kitchen work areas shall be 60 inches (1525 mm) minimum.

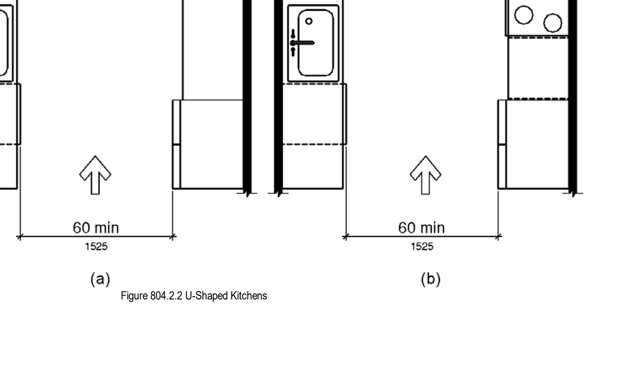

Figure 804.2.2 U-Shaped Kitchens

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ALIEF INDEPENDENT SCHOOL DISTRICT

16305 KENSLEY DRIVE
HOUSTON, TEXAS 77082

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CP1.2

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PLUMBING FIXTURE CALCULATIONS

TEA NUMBERS IN RED

BUILDING OCCUPANT LOAD TABLE FOR PLUMBING FIXTURE CALCULATIONS PER 2021 IBC TABLE 1004.5

AREA (SF) PER OCCUPANCY TYPE				PERSONS PER OCCUPANCY TYPE (ROUNDED)								TOTAL OCCUPANTS
				MALE				FEMALE				
E	A	B	S-2	E	A	B	S-2	E	A	B	S-2	
34,923	8,297	5,818	2,733	873+1	277+19	19	5	873+2	277 +19	20	5	2,390
NOTES:				** (+KITCHEN) *(+ LIBRARY)				**(+ KITCHEN) *(+ LIBRARY)				
				598+1				598+2				1,840

* LIBRARY: 1 SF/100 = 3,739 SF/100 OR 38 OCCUPANTS

** KITCHEN: 1 SF/200 = 617 SF/200 OR 3 OCCUPANTS

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES PER IBC 2021 TABLE 2902.1

TYPE OF OCCUPANCY	WATER CLOSETS		LAVATORIES	DRINKING FOUNTAINS	SERVICE SINK
	MALE	FEMALE			
EDUCATIONAL	1 PER 50	1 PER 50	1 PER 50	1 PER 100	1
ASSEMBLY (A-3)	1 PER 125	1 PER 65	1 PER 200	1 PER 500	1
BUSINESS (B)	1 PER 25: 1ST 50 1 PER 50: EXC. 50		1 PER 40: 1ST 80 1 PER 80: EXC. 80	1 PER 100	1
WAREHOUSE (S-2)	1 PER 100		1 PER 100	1 PER 400	1

PER IBC **2902.1.1** Fixture calculations. To determine the occupant load of each sex, the total occupant load shall be divided in half. To determine the required number of fixtures, the fixture ratio or ratios for each fixture type shall be applied to the occupant load of each sex in accordance with Table 2902.1. Fractional numbers resulting from applying the fixture ratios of Table 2902.1 shall be rounded up to the next whole number. For calculations involving multiple occupancies, **such fractional numbers for each occupancy shall first be summed and then rounded up to the next whole number.**

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES PER IBC 2021 TABLE 2902.1
* URINAL SUBSTITUTIONS PER IPC 419.2

WATER CLOSETS

MALE

E	A	B	S-2	DECIMAL TOTAL	REQUIRED WATER CLOSETS	WATER CLOSETS PROVIDED	URINALS PROVIDED *	TEA
874/50 = 17.48	296/125 = 2.36	*(0-50)/50 = 0	5/100 = .05	20.65	21	13	9	
599/50 = 11.98				WATER CLOSETS	15.15	16		+1 +6

* (B W/C PART 1): 19/25 = .76 WATER CLOSET

FEMALE

E	A	B	S-2	DECIMAL TOTAL	REQUIRED WATER CLOSETS	WATER CLOSETS PROVIDED	TEA
875/50 = 17.5	296/65 = 1.48	*(0-50)/50 = 0	5/100 = .05	22.9	23	23	
600/50 = 12				LAVATORIES	14.33	15	+0 +8

* (B W/C PART 1): 20/25 = .80 WATER CLOSET

MALE

E	A	B	S-2	DECIMAL TOTAL	REQUIRED LAVATORIES	LAVATORIES PROVIDED	TEA
874/50 = 17.48	296/200 = 1.48	0/80 = 0	5/100 = .05	19.48	20	14	
599/50 = 11.98				LAVATORIES	13.99	14	-6 0

* (B LAV PART 1): 19/40 = .475 LAVATORIES

FEMALE

E	A	B	S-2	DECIMAL TOTAL	REQUIRED LAVATORIES	LAVATORIES PROVIDED	TEA
875/50 = 17.5	296/200 = 1.48	0/80 = 0	5/100 = .05	19.53	20	19	
600/50 = 12				DRINKING FOUNTAINS	14.03	15	-1 +4

* (B LAV PART 1): 20/40 = .5 LAVATORIES

E	A	B	S-2	DECIMAL TOTAL	REQUIRED DRINKING FOUNTAINS	DRINKING FOUNTAINS PROVIDED	TEA
1,749/100 = 17.49	592/500 = 1.18	39/100 = .39	10/1,000 = .01	19.07	20	18	
1,199/100 = 11.99					13.57	14	-2 +4

SERVICE SINKS

REQUIRED SERVICE SINKS	REQUIRED SINKS PROVIDED
4	0

Area/Occupant Load Schedule (Code Analysis)

Name	Function of Space	Area	Occupancy Load Factor	OLF
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	57 SF	300	1
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	273 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	43 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	182 SF	300	1
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	1496 SF	300	5
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	61 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	54 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	169 SF	300	1
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	398 SF	300	2
CAFETERIA	ASSEMBLY W/O FIXED SEATS (UNCONCENTRATED)	3347 SF	15	224
GYMNASIUM	ASSEMBLY W/O FIXED SEATS (UNCONCENTRATED)	3330 SF	15	222
BUSINESS	BUSINESS AREAS	93 SF	150	1
BUSINESS	BUSINESS AREAS	420 SF	150	3
BUSINESS	BUSINESS AREAS	93 SF	150	1
BUSINESS	BUSINESS AREAS	144 SF	150	1
BUSINESS	BUSINESS AREAS	377 SF	150	3
BUSINESS	BUSINESS AREAS	477 SF	150	4
BUSINESS	BUSINESS AREAS	98 SF	150	1
BUSINESS	BUSINESS AREAS	452 SF	150	4
BUSINESS	BUSINESS AREAS	95 SF	150	1
BUSINESS	BUSINESS AREAS	135 SF	150	1
BUSINESS	BUSINESS AREAS	95 SF	150	1
BUSINESS	BUSINESS AREAS	1523 SF	150	11
BUSINESS	BUSINESS AREAS	1816 SF	150	13
CLASSROOMS	EDUCATIONAL CLASSROOMS	3591 SF	20	180
CLASSROOMS	EDUCATIONAL CLASSROOMS	3580 SF	20	179
CLASSROOMS	EDUCATIONAL CLASSROOMS	1326 SF	20	67
CLASSROOMS	EDUCATIONAL CLASSROOMS	3073 SF	20	154
CLASSROOMS	EDUCATIONAL CLASSROOMS	1244 SF	20	63
CLASSROOMS	EDUCATIONAL CLASSROOMS	1244 SF	20	63
CLASSROOMS	EDUCATIONAL CLASSROOMS	2883 SF	20	145
CLASSROOMS	EDUCATIONAL CLASSROOMS	1260 SF	20	63
CLASSROOMS	EDUCATIONAL CLASSROOMS	3519 SF	20	176
CLASSROOMS	EDUCATIONAL CLASSROOMS	1246 SF	20	63
CLASSROOMS	EDUCATIONAL CLASSROOMS	3031 SF	20	152
CLASSROOMS	EDUCATIONAL CLASSROOMS	1247 SF	20	63
CLASSROOMS	EDUCATIONAL CLASSROOMS	2673 SF	20	134
CLASSROOMS	EDUCATIONAL CLASSROOMS	1852 SF	20	93
CLASSROOMS	EDUCATIONAL CLASSROOMS	3154 SF	20	158
KITCHEN	KITCHENS, COMMERCIAL	617 SF	200	4
RESOURCE	LIBRARY (STACK AREA)	3739 SF	100	38
STAGE	STAGE AND PLATFORMS	1620 SF	15	108
		56126 SF		2408

1,840 BASED ON TEA

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REGISTERED ARCHITECT JUSTIN A. TATE 23632 STATE OF TEXAS 12/31/2025

REES E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

16305 KENSLEY DRIVE
HOUSTON, TEXAS 77062

ISSUE FOR BID & PERMIT
10-31-25

REVISIONS
1 02.11.26 ISSUE FOR BID & PERMIT

39-25156-00

PLUMBING FIXTURE COUNT

CP1.3

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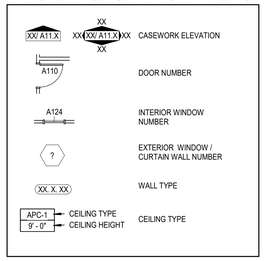
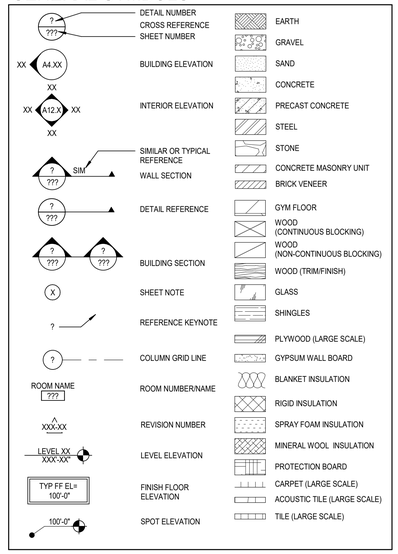
ARCHITECTURAL ABBREVIATIONS

		GD	GARBAGE DISPOSAL	SC	SHOWER CURTAIN
		GEN	GENERAL	SCD	SEAT COVER DISPENSER
A/E	ARCHITECT/ENGINEER	GFA	GROSS FLOOR AREA	SCH	SHOWER CURTAIN HOOK
AB	AIR BARRIER	GL	GLUE LAMINATED	SCR	SHOWER CURTAIN ROD
ABS	ASBESTOS	GL	GLASS	SCT	STRUCTURAL CLAY TILE
ACC	ADA ACCESSIBLE	GMP	GUARANTEED MAXIMUM PRICE	SD	SOAP DISPENSER
ACR	ACRYLIC	GR	GUARD RAIL	SECY	SECRETARY
ACT	ACOUSTIC CEILING TILE	GR	GRADE	SF	SQUARE FEET
AD	ACCESS DOOR	GRS	GALVANIZED RIGID STEEL	SG	SPANDREL GLASS
ADJ	ADJUSTABLE	GWB	GYPSUM WALL BOARD	SG	SPECIALTY GLASS
ADJT	ADJACENT	GYP	GYPSUM	SGL	SINGLE
ADMIN	ADMINISTRATION			SGV	SINGLE GAS VALVE
AEC	AUTOMATED EXTERNAL DEFIBRILLATORS	HC	HOLLOW CORE	SH	SHOWER
AL	ALUMINUM	HD	HAND DRYER	SHM	SECURITY HOLLOW METAL
ALUM	ALUMINUM	HDF	HIGH DENSITY FIBERBOARD	SLNT	SEALANT
AP	ACCESS PANEL	HDR	HEADER	SM	SHEET METAL
APC	ACOUSTIC PANEL CEILING	HDWD	HARDWOOD	SND	SANITARY NAPKIN DISPOSAL
ASPH	ASPHALT	HDWR	HARDWARE	SNV	SANITARY NAPKIN VENDOR
AUTO	AUTOMATIC	HM	HOLLOW METAL	SO	SENSOR OPERATED
AVG	AVERAGE	HR	HOUR	SPL	SOUND PRESSURE LEVEL
AWP	ACOUSTIC WALL PANEL	HR	HANDRAIL	SQ	SQUARE
		HS	HARDWARE SET	SR	SURFACE MOUNTED ELECTRICAL RACEWAY
B.O.	BOTTOM OF	HSS	HOLLOW STRUCTURAL SHAPE	SS	SOLID SURFACE
BCS	BABY CHANGING STATION	HVAC	HEATING VENTILATING AND AIR CONDITIONING	SSA	STORM SHELTER AREA
BD	BOARD			SSM	SOLID SURFACE
BLK	BLOCK	IAW	IN ACCORDANCE WITH	SSS	STAINLESS STEEL SHELF
BLKG	BLOCKING	ID	INSIDE DIAMETER	SST	STAINLESS STEEL
BLKHD	BULKHEAD	IF	INSIDE FACE	ST	STONE
BM(S)	BEAM(S)	IIP	INSULATED INFILL PANEL GLASS	ST	STAIR
BOT	BOTTOM	IJ	ISOLATION JOINT	STAG'D	STAGGERED
BRDG	BRIDGING	IJS	IN JOIST SPACE	STC	SOUND TRANSMISSION CLASS
BRG	BEARING	INC	INCLUDE(ING)	STGR	STRINGER
BRKT	BRACKET	INSUL	INSULATION	SUBFL	SUBFLOOR
BT	BATHTUB			SUL	SULPHUR
BTWN	BETWEEN	JAN	JANITOR	SURF	SURFACE
		JBE	JOIST BEARING ELEVATION	SUSP	SUSPENDED
CAB	CABINET	JBX	JUNCTION BOX	SVF	SHEET VINYL FLOORING
CBD	CHALKBOARD	JCT	JUNCTION	SVF	SERVICE FIXTURE
CER	CERAMIC	JFB	JOINT FILLER BOARD	SVG	SERVICE FIXTURE GROUP
CF	CUBIC FEET	JST	JOIST		
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	JT	JOINT	T	TREAD
CFMF	COLD-FORMED METAL FRAMING			T&G	TONGUE AND GROOVE
CG	CLEAR FLOAT GLASS	KCJ	KEYED CONSTRUCTION JOINT	T.O.	TOP OF
CGD	CORNER GUARD	KD	KNOCKDOWN	TAN	TANGENT
CI	CAST IRON	KH	KITCHEN HOOD	TB	TOWEL BAR
CIG	CLEAR INSULATING GLASS	KIT	KITCHEN	TBD	TACK BOARD
CIP	CAST IN PLACE			TCP	TOILET COMPARTMENT PARTITION
CJ	CONTROL JOINT	L	ANGLE	TERR	TERRAZZO
CJA	CONTROL JOINT ABOVE	LAB	LABORATORY	TFG	TINTED FLOAT GLASS
CLO	CLOSET	LAM	LAMINATED	TG	TEMPERED GLASS
CLR	CLEAR	LAV	LAVATORY	TH	THRESHOLD
CMU	CONCRETE MASONRY UNIT	LBR	LUMBER	THK	THICK(NESS)
COL	COLUMN	LDG	LOADING	TI	TENANT IMPROVEMENT
COM	COMMON	LF	LINEAR FOOT	TIG	TINTED INSULATING GLASS
COMB	COMBINATION	LG	LENGTH (LONG)	TMR	TILT MIRROR UNIT
COMM	COMMUNICATIONS	LG	LAMINATED GLASS	TOIL	TOILET
COMPR	COMPRESSIBLE	LIN	LINEAR	TOP	TOP OF PAVING
CONF	CONFERENCE	LINO	LINOLEUM	TRANS	TRANSVERSE
CONFIG	CONFIGURATION	LKR	LOCKER	TT	TERRAZZO TILE
CORR	CORRIDOR	LOC	LOCATION	TTD	TOILET TISSUE DISPENSER
CP	COVER PLATE	LONG	LONGITUDINAL	TTG	TINTED TEMPERED FLOAT GLASS
CPT	CARPET	LSC	LIFE SAFETY CODE	TTIG	TINTED TEMPERED INSULATING GLASS
CR	CHAIR RAIL	LTG	LIGHTING	TW	TACK WALL
CS	COUNTERSINK	LV	LOUVER		
CSTJ	CONSTRUCTION JOINT	LVT	LUXURY VINYL TILE	UL	UNDERWRITERS LABORATORIES
CSWK	CASEWORK			UR	URINAL
CT	CERAMIC TILE	MAG	MAGNETIC	US	UTILITY SHELF
CTG	CLEAR TEMPERED FLOAT GLASS	MAINT	MAINTENANCE	UTIL	UTILITY
CTIG	CLEAR TEMPERED INSULATING GLASS	MAN	MANUAL		
CU	COPPER	MAS	MASONRY	VB	VAPOR BARRIER
CU	COMBINATION UNIT	MATL	MATERIAL	VB	VINYL BASE
CV	CONDOM VENDOR	MB	MOP BASIN	VCB	VENTED COVE BASE
CY	CUBIC YARD	MBD	MARKER BOARD	VF	VINYL FLOOR
CYL	CYLINDER	MBH	MOP/BROOM HOLDER	VOC	VOLITILE ORGANIC COMPOUND
		MC	MEDICINE CABINET	VOL	VOLUME
DB	DECIBEL	MEMB	MEMBRANE	VP	VENEER PLASTER
DBL	DOUBLE	MH	MANHOLE	VT	VINYL TILE
DC	DUST COLLECTOR	MIRS	MIRROR WITH SHELF	VWC	VINYL WALL COVERING
DEPR	DEPRESSION(ED)	MTD	MOUNTED		
DEPT	DEPARTMENT	MTG	MOUNTING	W	WIDE
DET	DETENTION	MUL	MULLION	WB	WALL BASE
DF	DRINKING FOUNTAIN			WC	WATER CLOSET
DG	DOOR GRILLE	NC	NOISE CRITERIA	WC	WALL COVERING
DIAG	DIAGONAL	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	WCL	WATER CLOSET/LAVATORY COMBINATION
DPFG	DAMPROOFING	NOM	NOMINAL	WD	WOOD
DR	DOOR			WDF	WOOD FLOORING
DSN	DOWNSPOUT NOZZLE	O to O	OUT TO OUT	WDW	WINDOW
DW	DISHWASHER	OA	OVERALL	WG	POLISHED WIRE GLASS
DWL(S)	DOWEL(S)	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	WI	WROUGHT IRON
DWR	DRAWER	OFF	OFFICE	WOM	WALK OFF MAT
		OFOI	OWNER FURNISHED OWNER INSTALLED	WR	WASTE RECEPTACLE
EB	EXPANSION BOLT	OH	OPPOSITE HAND	WRB	WEATHER RESISTANT BARRIER
EE	EACH END	OPG(S)	OPENING(S)	WW	WARM WHITE
EEW	EMERGENCY EYE WASH	OSHA	OPERATIONAL SAFETY AND HEALTH ADMINISTRATION	WWF	WELDED WIRE FABRIC
EEWS	EMERGENCY EYE WASH SHOWER	OTB	OPEN TO BELOW		
EFF	EFFICIENCY	OVFL	OVERFLOW	YD	YARD
EJ	EXPANSION JOINT				
ELAS	ELASTOMERIC	P	PAINT		
ELEV	ELEVATOR	PAN B	PANIC BOLT		
EMER	EMERGENCY	PB	PARTICLE BOARD		
ENCL	ENCLOSURE	PC	PRECAST CONCRETE		
ENTR	ENTRANCE	PCD	PAPER CUP DISPENSER		
ERF	EPOXY RESIN FLOORING	PCT	PORCELAIN CERAMIC TILE		
EUI	ENERGY USE INTENSITY	PD	PANIC DEVICE		
EW	EACH WAY	PERF	PERFORATED		
EWC	ELECTRIC WATER COOLER	PERP	PERPENDICULAR		
EXP	EXPANSION	PG	PATTERN GLASS		
EXP	EXPOSED	PIC	PORTABLE INSTRUMENT CONNECTION		
		PIG	PATTERN INSULATING GLASS		
F	FABRIC	PL	PLATE		
F.O.	FACE OF	PL	PROPERTY LINE		
FAB	FABRICATE(D)	PL	PLASTIC LAMINATE		
FB	FACE BRICK	PLAM	PLASTIC LAMINATE		
FD	FLOOR DRAIN	PLBG	PLUMBING		
FDN	FOUNDATION	PR	PAIR		
FE	FIRE EXTINGUISHER	PREFAB	PREFABRICATED		
FEC	FIRE EXTINGUISHER CABINET	PROJ	PROJECT(OR) (ION)		
FF	FINISH FLOOR	PS	PROJECTION SCREEN		
FH	FIRE HYDRANT	PT	POINT		
FHC	FIRE HOSE CABINET	PT	POINT OF TANGENCY		
FIG	FIGURE	PTD	PAPER TOWEL DISPENSER		
FIX	FIXTURE	PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE		
FLASH	FLASHING	PTN	PARTITION		
FLEX	FLEXIBLE	PVC	POLYVINYL CHLORIDE		
FLG	FLOORING	PWL	SOUND POWER LEVEL		
FLM	FULL LENGTH MIRROR				
FLUOR	FLUORESCENT	QGV	QUAD GAS VALVE		
FO	FINISH OPENING	QT	QUARRY TILE		
FOC	FACE OF CONCRETE	QTR RND	QUARTER ROUND		
FOF	FACE OF FINISH				
FOM	FACE OF MASONRY	R	RISER		
FOS	FACE OF STUD	RAD	RADIUS		
FOW	FACE OF WALL	RB	RUBBER BASE		
FP	FIREPROOFING	RC	REMOTE CONTROL		
FPG	FIRE-PROTECTIVE GLASS	RCP	REFLECTED CEILING PLAN		
FR	FIRE RESISTANT	RD	ROOF DRAIN		
FRG	FIRE-RESISTIVE GLASS	REF	REFERENCE		
FRP	FIBERGLASS REINFORCED PANEL	REFL	REFLECTED		
FRT	FIRE RESISTANCE TREATED	REM	REMOVABLE		
FS	FLOOR SINK	RESIL	RESILIENT		
FSS	FOLDING SHOWER SEAT	RF	RESILIENT FLOORING		
FTG	FOOTING	RF	RUBBER FLOOR		
FVC	FIRE VALVE CABINET	RFM	RECESSED FLOOR MAT		
FWC	FABRIC WALL COVERING	RH	ROBE HOOK		
		RI&C	ROUGH IN AND CONNECT		
G	GROUT				
GA	GAUGE	S	SINK		
GAL	GALLON	SAT	SPRAYED ACOUSTIC TREATMENT		
GALV	GALVANIZED	SAW	SOUND ABSORBING WALL UNITS		
GB	GRAB BAR	SB	SPLASH BLOCK		
		SC	SOLID CORE		

ARCHITECTURAL SYMBOLS



GENERAL SYMBOLS



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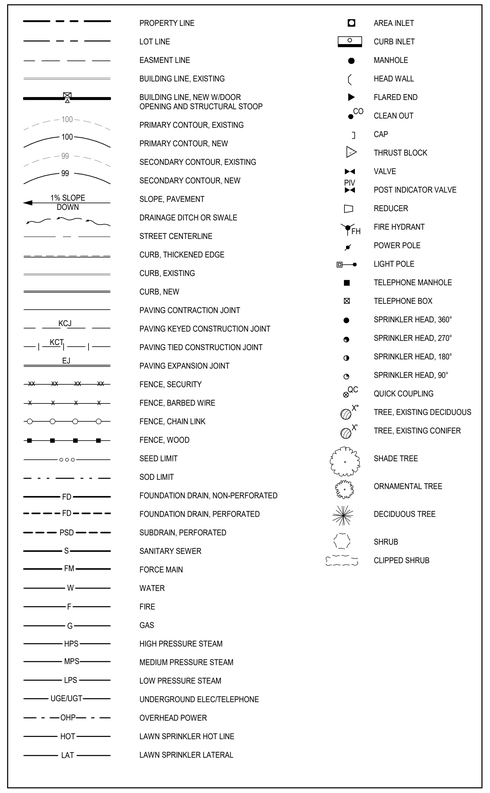

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX.X.XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS. SEE DETAILS ON SHEET XX.X.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

GENERAL NOTES

A. GENERAL NOTES APPLY TO ALL SHEETS.
B. DIMENSIONS ARE ACTUAL AND ARE TO FACE OF STUDS, FACE OF CONCRETE WALLS, FACE OF CMU WALLS, FACE OF FRAMES, OR CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE.
C. THE OWNER SHALL FURNISH AND INSTALL THE FOLLOWING ITEMS: 1. SOAP DISPENSERS
D. INCLUDE ALL OWNER-FURNISHED AND INSTALLED ITEMS AND OWNER-FURNISHED AND CONTRACTOR-INSTALLED ITEMS IN THE CONSTRUCTION SCHEDULE, AND SHALL COORDINATE WITH THE OWNER TO ACCOMMODATE THESE ITEMS.
E. COORDINATE ALL MECHANICAL CHASE SIZES WITH THE MECHANICAL CONTRACTOR.
F. ARCHITECTURAL FINISH FLOOR ELEVATION IS EXISTING TO REMAIN, VIF.
G. SEE SHEET XX.X FOR LOCATION OF WALLS OF FIRE-RESISTANCE-RATED CONSTRUCTION. ALL WALLS OF FIRE-RESISTANCE-RATED CONSTRUCTION SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE.
H. ALL PENETRATIONS THROUGH WALLS SHALL BE SEALED WITH PENETRATION FIRE STOPPING MATERIAL AS REQUIRED TO ACHIEVE THE RESPECTIVE FIRE-RESISTANCE RATING AND SMOKE STOPPAGE. SEE SPECIFICATION SECTION 078413.
I. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS THE SIZE AND LOCATION OF EQUIPMENT PADS SHOWN ON PLANS.
J. FIRE-RESISTANCE-RATED ENCLOSURES AROUND ALL STEEL COLUMNS SHALL BE CONTINUOUS FROM FLOOR TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE FOR EACH LEVEL.
K. CONSTRUCTION DOCUMENTS ARE COMPLEMENTARY. SEE DRAWING FOR QUANTITIES AND LOCATION OF WORK. SEE SPECIFICATIONS FOR QUALITIES AND CONDITIONS OF WORK.
L. WORK: ALL ASPECTS OF THE WORK AND ITEMS NOT SPECIFICALLY MENTIONED, BUT NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED AND INDICATED IN THE CONTRACTOR'S BID.
M. SHEET NOTES ONLY APPLY TO PARTICULAR DRAWING OR SERIES OF DRAWINGS.
N. NO ASBESTOS OR PCB CONTAINING MATERIALS SHALL BE USED ON THIS PROJECT.
O. DO NOT SCALE DRAWINGS. DIMENSIONS NOTED PREVAIL. NOTIFY ARCHITECT IN CASE OF DISCREPANCY.
P. HORIZONTAL AND VERTICAL DIMENSIONS ARE MINIMUM DIMENSIONS. CLEARANCES ARE GIVEN TO FINISH SURFACES. GC TO VERIFY ALL CLEARANCES. NOTIFY ARCHITECT IN CASE OF DISCREPANCY.

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REGISTERED ARCHITECT
JUSTIN A. FISHER
23632
STATE OF TEXAS
12/31/2025

REES ELEMENTARY
PERFORMING AND VISUAL ARTS ACADEMY

REES E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

1605 KENSLEY DRIVE
HOUSTON, TEXAS 77502

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39-25156-00

GENERAL NOTES, ARCHITECTURAL SYMBOLS & ABBREVIATIONS

A0.1

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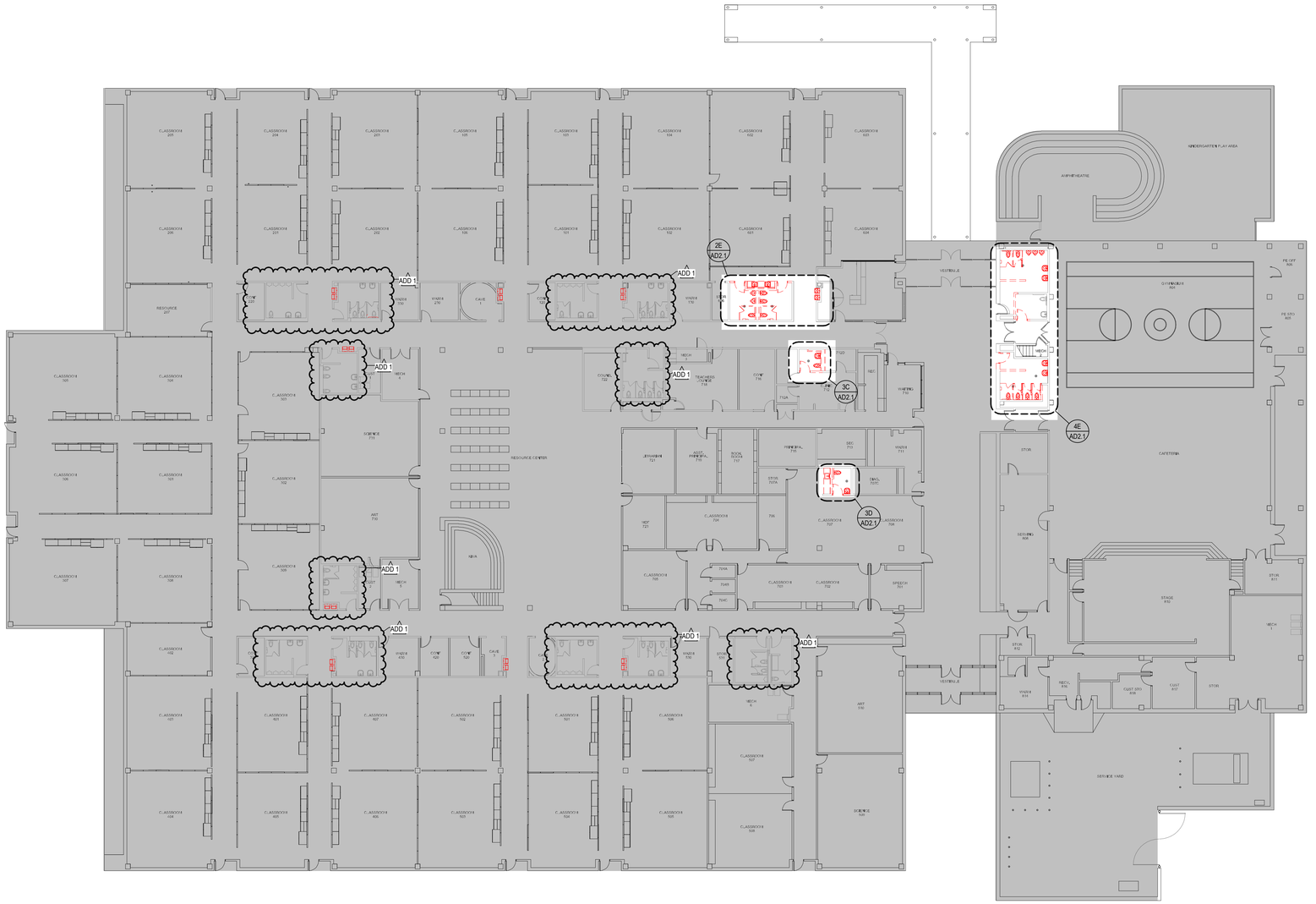

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AD1.1

OVERALL DEMOLITION PLAN, LEVEL 1

SCALE: 1/16" = 1'-0"

DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL ENGINEER.
P. WHERE CMU WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING CMU IN TOOTH-IN PATTERN BOTH SIDES OF DEMOLITION FOR CONTRACTOR TO TOOTH-IN NEW CMU PATCHES.
Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

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REGISTERED ARCHITECT JUSTIN A. ARRAM 23632 STATE OF TEXAS
12/31/2025

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REES E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

16305 KENSLEY DRIVE
HOUSTON, TEXAS 77082

ISSUE FOR BID & PERMIT
10-31-25

REVISIONS

1	02-11-26	ISSUE FOR BID & PERMIT
ADD 1	04-06-26	OWNER VE

39-25156-00

LEVEL 01 - DEMOLITION PLAN

AD1.1

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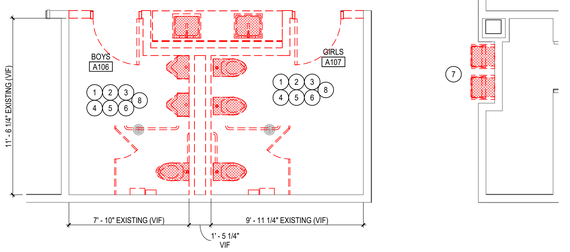
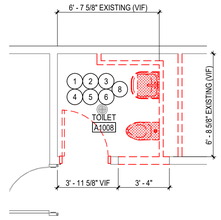
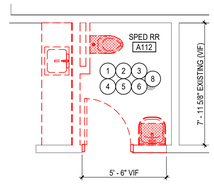


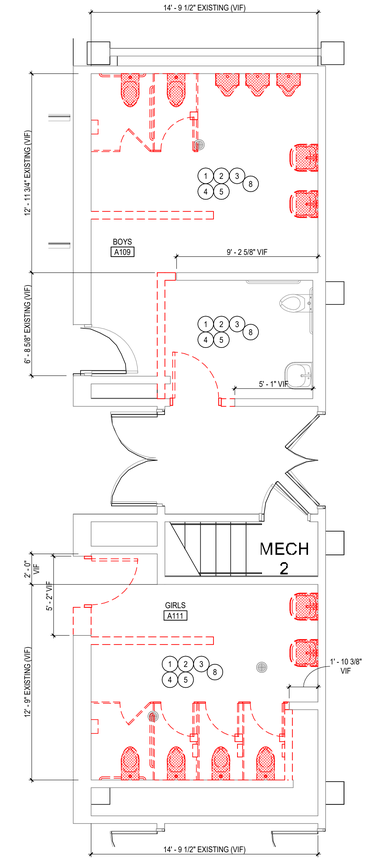
2E AD2.1 ENLARGED DEMO PLAN - BOYS A106 / GIRLS A107
SCALE: 1/4" = 1'-0"



3C AD2.1 ENLARGED DEMO PLAN - A1008
SCALE: 1/4" = 1'-0"

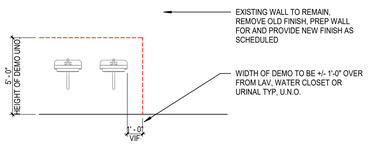


3D AD2.1 ENLARGED DEMO PLAN - SPED A112
SCALE: 1/4" = 1'-0"

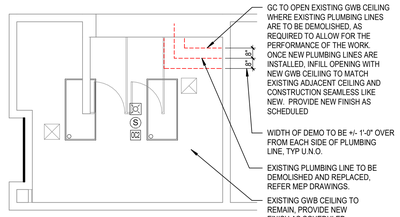


4E AD2.1 ENLARGED DEMO PLAN - BOYS A109 / GIRLS A111
SCALE: 1/4" = 1'-0"

ADD 1



5D AD2.1 TYP ELEV AT EXISTING GYP BD WALL LAV, WC OR URINAL DEMO
SCALE: 1/4" = 1'-0"



5E AD2.1 TYP ENLARGED RCP @ GWB PLUMBING DEMOLITION
SCALE: 1/4" = 1'-0"

DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL ENGINEER.
P. WHERE CMU WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING CMU IN TOOTH-IN PATTERN BOTH SIDES OF DEMOLITION FOR CONTRACTOR TO TOOTH-IN NEW CMU PATCHES.
Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

SHEET NOTES

1 GC TO VERIFY EXISTING FLOOR FINISH. IF EXISTING FLOOR FINISH IS TERRAZZO, GC IS TO KEEP EXISTING FLOOR FINISH, DEEP CLEAN, POLISH AND PROTECT IT. IF EXISTING FLOOR FINISH IS NOT TERRAZZO, IT IS TO BE REMOVED AND DISCARDED.
2 EXISTING PLUMBING FIXTURES AND ACCESSORIES, REMOVE AND DISCARD. CAP UNUSED PLUMBING OUT OF SIGHT, REFER TO PLUMBING DRAWINGS.
3 EXISTING TILE WALL FINISH, REMOVE AND DISCARD. PREP WALL TO RECEIVE NEW FINISHES.
4 EXISTING TOILET PARTITION (AND OR URINAL SCREEN), REMOVE AND DISCARD.
5 EXISTING WALL, REMOVE AND DISCARD TO EXTENTS SHOWN.
6 EXISTING MILLWORK, REMOVE AND DISCARD.
7 EXISTING DRINKING FOUNTAIN, REMOVE AND DISCARD.
8 EXISTING CEILING AND LIGHT FIXTURES, REMOVE AND DISCARD. REFER S6/AD2.1 FOR ADDITIONAL NOTES.

DEMOLITION PLAN LEGEND

- AREA NOT IN CONTRACT (NIC)
- EXISTING PARTITION TO BE DEMOLISHED
- EXISTING PARTITION TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED
- EXISTING DOOR TO REMAIN
- ACOUSTIC CEILING SYSTEM TO BE DEMOLISHED, GRID & TILE
- 5' - 0" DIMENSION (FACE TO FACE, TYPICAL)

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REGISTERED ARCHITECT JUSTIN A. ALEXANDER 23632 STATE OF TEXAS
10/31/2025

REES ELEMENTARY
PERFORMING AND VISUAL ARTS ACADEMY

REES E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

16305 KENSLEY DRIVE
HOUSTON, TEXAS 77082

ISSUE FOR BID & PERMIT
10-31-25

REVISIONS
1 02-11-26 ISSUE FOR BID & PERMIT
ADD 1 04-06-26 OWNER VE

39-25156-00

ENLARGED DEMOLITION PLAN

AD2.1

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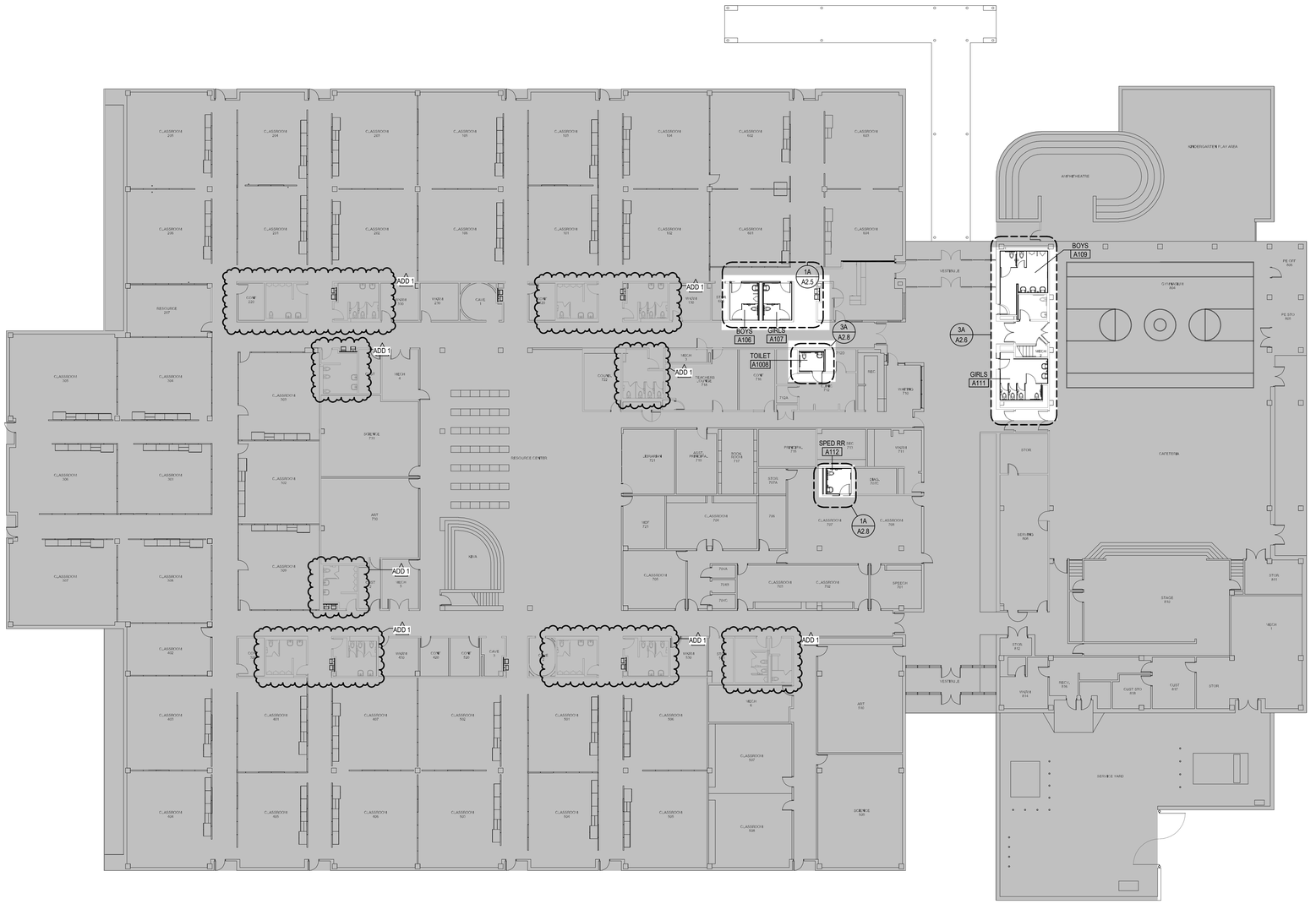

N

1 A1.1

OVERALL - FLOOR PLAN

SCALE: 1/16" = 1'-0"

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX.X.XX) THUS: SEE SHEET A6.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS. SEE DETAILS ON SHEET XX.X.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS. I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

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REGISTERED ARCHITECT JUSTIN A. ALBRIGHT 23632 STATE OF TEXAS 12/31/2025

REES ELEMENTARY PERFORMING AND VISUAL ARTS ACADEMY

REES E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

16305 KENSLEY DRIVE
HOUSTON, TEXAS 77082

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39-25156-00

OVERALL - FLOOR PLAN

A1.1

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REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

N
TRUE
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A1.2
OVERALL - REFLECTED CEILING PLAN
SCALE: 1/16" = 1'-0"

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REGISTERED ARCHITECT
ABRAM BUSTAITA
23632
STATE OF TEXAS
10/31/2025

Rees ELEMENTARY
PERFORMING AND VISUAL ARTS ACADEMY

REES E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

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OVERALL - REFLECTED CEILING PLAN

A1.2

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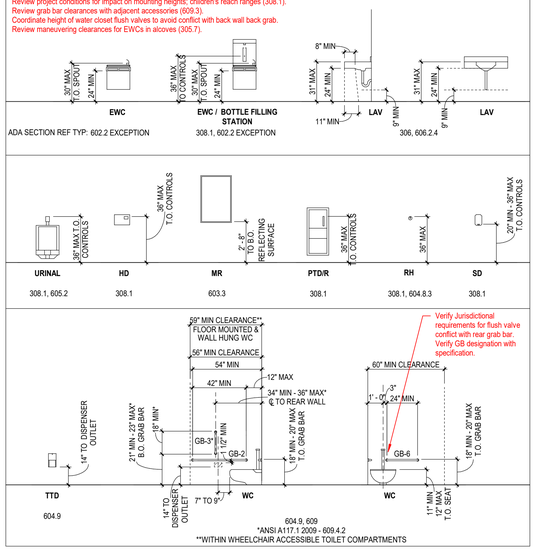
CHILDREN MOUNTING HEIGHTS (AGES 3-4) - 2010 ADA STANDARDS

ACCESSIBLE (ACC) UNO

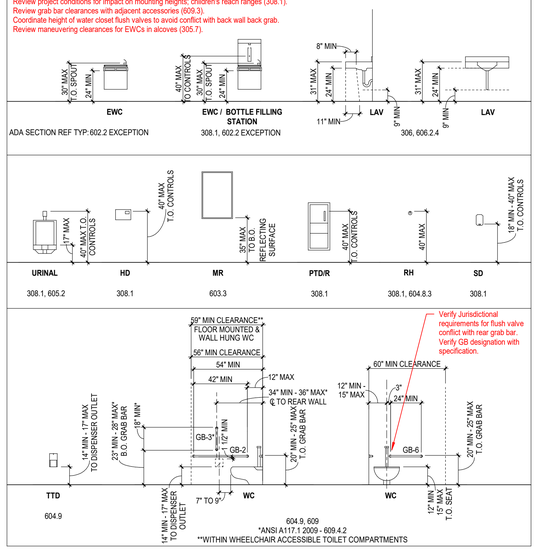
Review project conditions for impact on mounting heights; children's reach ranges (308.1).
Review grab bar clearances with adjacent accessories (609.3).
Coordinate height of water closet flush valves to avoid conflict with back wall back grab.
Review maneuvering clearances for EWCs in alcoves (305.7).



CHILDREN MOUNTING HEIGHTS (AGES 5-8) - 2010 ADA STANDARDS

ACCESSIBLE (ACC) UNO

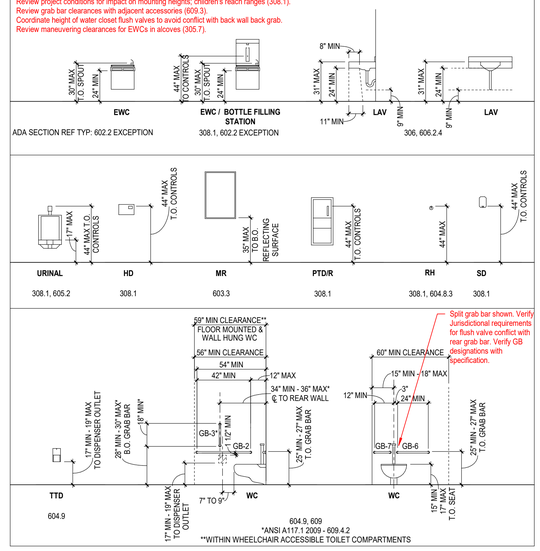
Review project conditions for impact on mounting heights; children's reach ranges (308.1).
Review grab bar clearances with adjacent accessories (609.3).
Coordinate height of water closet flush valves to avoid conflict with back wall back grab.
Review maneuvering clearances for EWCs in alcoves (305.7).



CHILDREN MOUNTING HEIGHTS (AGES 9-12) - 2010 ADA STANDARDS

ACCESSIBLE (ACC) UNO

Review project conditions for impact on mounting heights; children's reach ranges (308.1).
Review grab bar clearances with adjacent accessories (609.3).
Coordinate height of water closet flush valves to avoid conflict with back wall back grab.
Review maneuvering clearances for EWCs in alcoves (305.7).

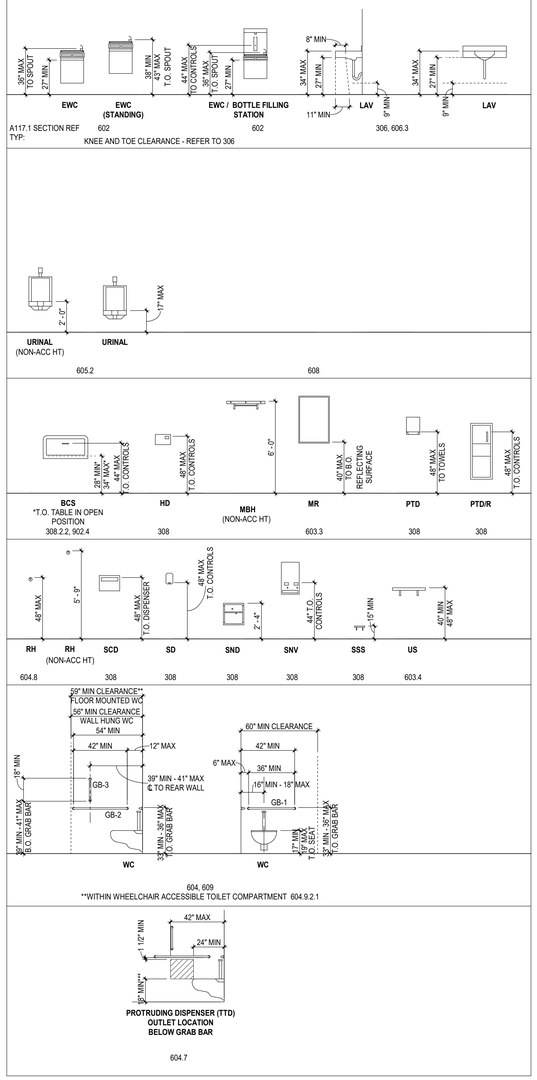


TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

ADULT MOUNTING HEIGHTS - 2017 ICC A117.1

ACCESSIBLE (ACC) UNO



GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX.X.XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE 5A.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS. SEE DETAILS ON SHEET XX.X
5. NOT USED.
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9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
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   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

ACT, ACOUSTICAL CEILING TILE

XXX — CEILING TYPE
X-XX — CEILING HEIGHT

GENERAL NOTES FOR ACCESSIBILITY - 2010 ADA

A. ACCESSIBLE URINAL SHALL PROVIDE CLEAR FLOOR SPACE PER 605.3.
B. ACCESSIBLE WATER CLOSETS SHALL PROVIDE CLEAR SPACE PER 604.3.1.
C. ACCESSIBLE LAVATORIES AND SINKS SHALL PROVIDE CLEAR SPACE PER 606.2.
D. ACCESSIBLE TOILET ROOMS SHALL PROVIDE A TURNING SPACE OF 60 INCHES IN DIAMETER PER 304.3.1.
E. ACCESSIBLE DRINKING FOUNTAINS / ELECTRIC WATER COOLERS SHALL PROVIDE CLEAR FLOOR SPACE PER 602.2.
F. ACCESSIBLE TOILET PARTITIONS SHALL COMPLY WITH 604.8.1.
G. EXPOSED PIPES AND SURFACES UNDER LAVATORIES AND SINKS SHALL BE INSULATED PER 606.5.

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SCHEDULES

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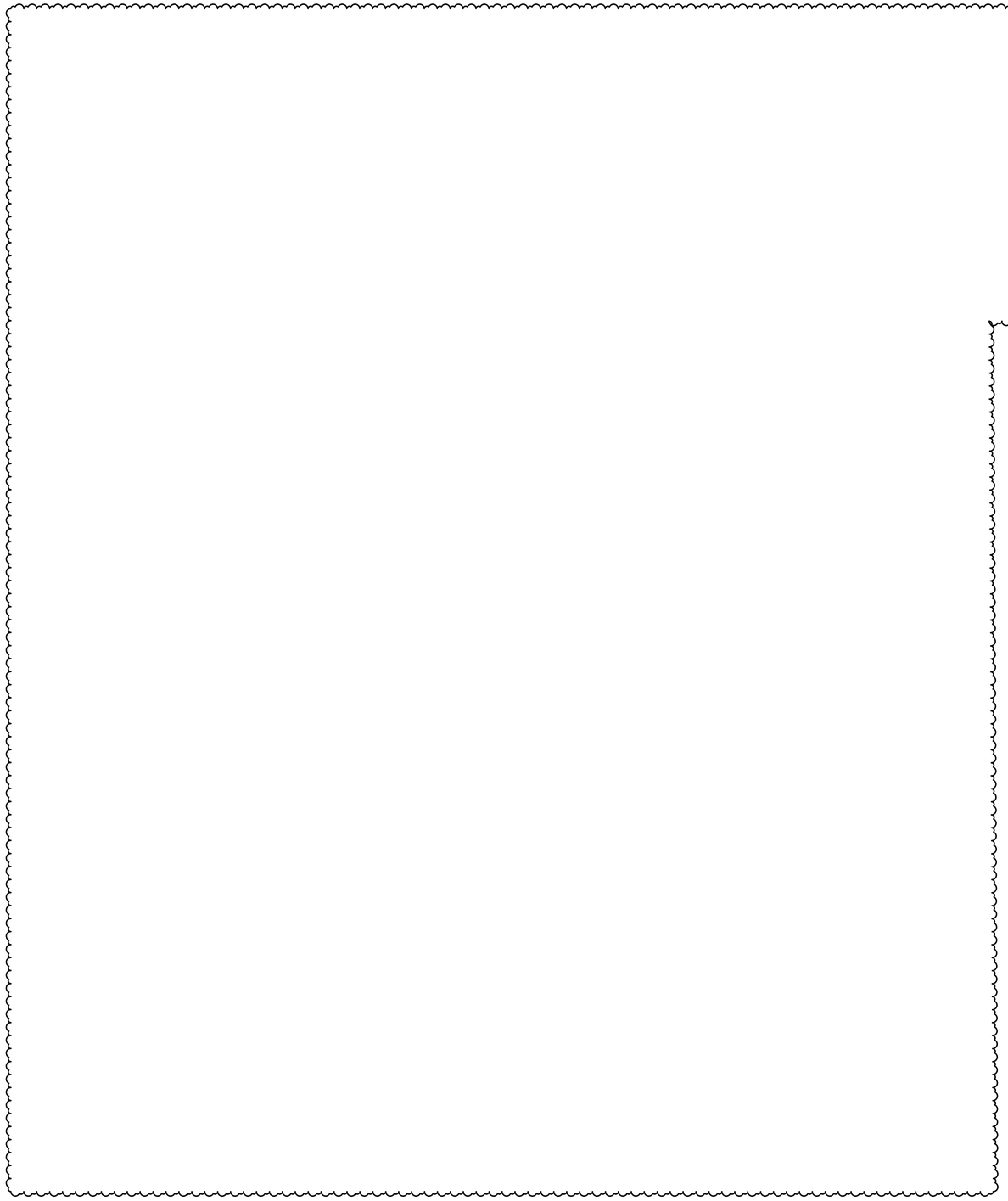
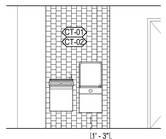
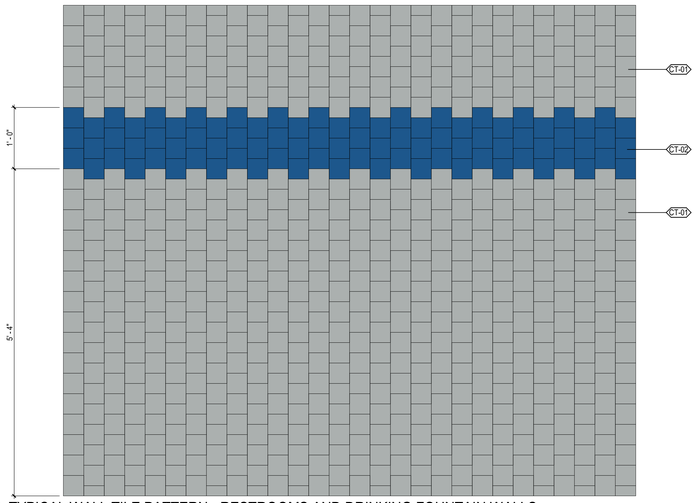




3E A2.2 DRINKING FOUNTAINS
SCALE: 1/4" = 1'-0"



5D A2.2 TYPICAL WALL TILE PATTERN - RESTROOMS AND DRINKING FOUNTAIN WALLS
SCALE: 1" = 1'-0"

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
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GB-5	GRAB BAR (SHOWER)
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GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

(#) SHEET NOTES

1 NEW BOTTLE FILLER DRINKING FOUNTAIN, REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.
2 EXISTING SALVAGED RE-INSTALLED BOTTLE FILLER / DRINKING FOUNTAIN, REFER MEP DRAWINGS.
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GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX.X.XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS. SEE DETAILS ON SHEET XX.X.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
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REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

ACT, ACOUSTICAL CEILING TILE

XXX / X-XX — CEILING TYPE / CEILING HEIGHT

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E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
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J. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
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L. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

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CPT / VCT FLOOR FINISH TRANSITION
FLOOR MATERIAL DIRECTION
XX-01 FINISH MATERIAL TAG
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REGISTERED ARCHITECT JUSTIN ALLRAN 23632 STATE OF TEXAS
12/31/2025

REES ELEMENTARY PERFORMING AND VISUAL ARTS ACADEMY

REES E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

16305 KENSLEY DRIVE
HOUSTON, TEXAS 77082

ISSUE FOR BID & PERMIT
10-31-25

REVISIONS

1	02-11-26	ISSUE FOR BID & PERMIT
ADD 1	04-06-26	OWNER VE

39-25156-00

ENLARGED FLOOR PLANS

A2.2

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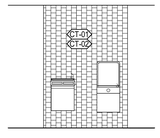

3E / A2.3 DRINKING FOUNTAIN @ GIRLS
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
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(#) SHEET NOTES

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FINISH PLAN LEGEND

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(NO) PLAN KEYED NOTE
CPT / VCT — FLOOR FINISH TRANSITION
FLOOR MATERIAL DIRECTION
XX-01 FINISH MATERIAL TAG
XX-01 EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

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REGISTERED ARCHITECT JUSTIN ALLEN 23632 STATE OF TEXAS
12/31/2025

REES ELEMENTARY PERFORMING AND VISUAL ARTS ACADEMY

REES E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

16305 KENSLEY DRIVE
HOUSTON, TEXAS 77082

ISSUE FOR BID & PERMIT
10-31-25

REVISIONS
1 03-11-26 ISSUE FOR BID & PERMIT
ADD 1 04-06-26 OWNER VE

39-25156-00

ENLARGED FLOOR PLANS

A2.3

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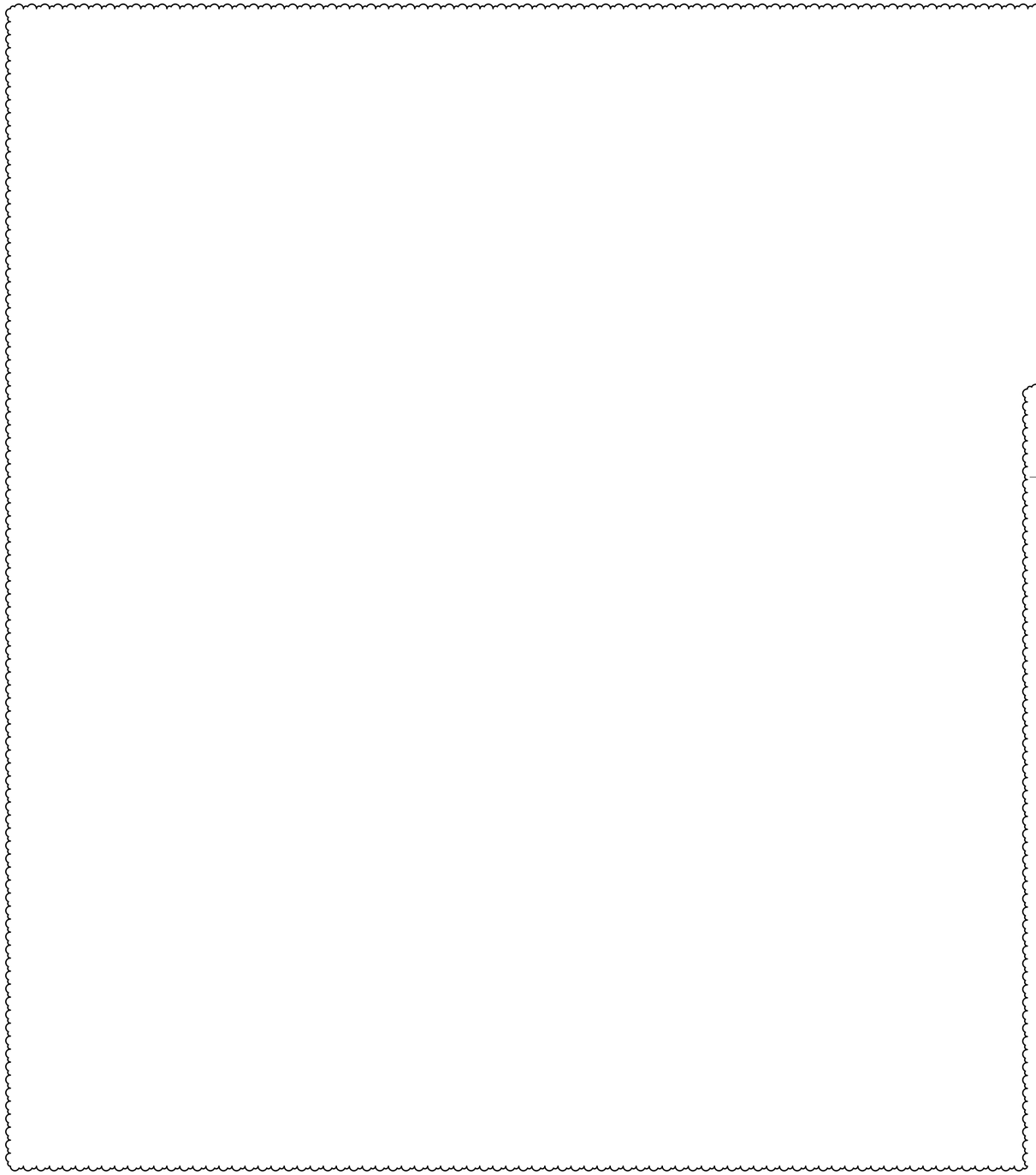
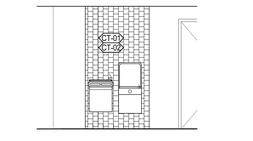


3E A2.4 DRINKING FOUNTAIN
SCALE: 1/4" = 1'-0"



3F A2.4 ELEV @ DRINKING FOUNTAIN
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
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MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
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SHEET NOTES

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- AREA NOT IN CONTRACT (NIC)
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- CPT / VCT — FLOOR FINISH TRANSITION
- FLOOR MATERIAL DIRECTION
- XX-01 FINISH MATERIAL TAG
- XX-01 EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

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REGISTERED ARCHITECT JUSTIN A. LEE 23632 STATE OF TEXAS
12/31/2025

REES ELEMENTARY PERFORMING AND VISUAL ARTS ACADEMY

REES E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

16305 KENSLEY DRIVE
HOUSTON, TEXAS 77062

ISSUE FOR BID & PERMIT
10-31-25

REVISIONS

1	02-11-26	ISSUE FOR BID & PERMIT
ADD 1	04-06-26	OWNER VE

39-25156-00

ENLARGED FLOOR PLANS

A2.4

Autodesk Docs://39-25156-00 Alief ISD restrm reno/39-25156-00 Rees Elementary_AR_2024.rvt
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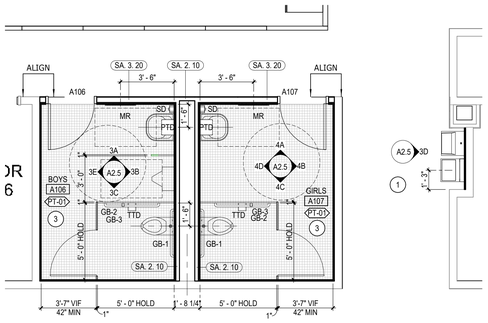
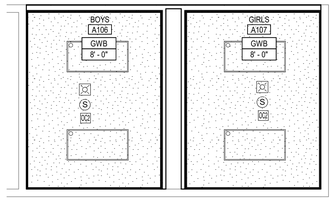


1A A2.5 ENLARGED FLOOR PLAN - BOYS / GIRLS

SCALE: 1/4" = 1'-0"



1C A2.5 ENLARGED RCP - BOYS / GIRLS

SCALE: 1/4" = 1'-0"

3A A2.5 A106 - BOYS - NORTH

SCALE: 1/4" = 1'-0"

3B A2.5 A106 - BOYS - EAST

SCALE: 1/4" = 1'-0"

3C A2.5 A106 - BOYS - SOUTH

SCALE: 1/4" = 1'-0"

3E A2.5 A106 - BOYS - WEST

SCALE: 1/4" = 1'-0"

3D A2.5 ELEV @ DRINKING FOUNTAINS

SCALE: 1/4" = 1'-0"

4A A2.5 A107 - GIRLS - NORTH

SCALE: 1/4" = 1'-0"

4B A2.5 A107 - GIRLS - EAST

SCALE: 1/4" = 1'-0"

4C A2.5 A107 - GIRLS - SOUTH

SCALE: 1/4" = 1'-0"

4D A2.5 A107 - GIRLS - WEST

SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

SHEET NOTES

1 NEW BOTTLE FILLER DRINKING FOUNTAIN. REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.

2 EXISTING SALVAGED RE-INSTALLED BOTTLE FILLER / DRINKING FOUNTAIN, REFER MEP DRAWINGS.

3 GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX_X_XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS. SEE DETAILS ON SHEET XX.X.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS. I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

ACT, ACOUSTICAL CEILING TILE

XXX — CEILING TYPE
X-XX — CEILING HEIGHT

INTERIOR FINISH PLAN GENERAL NOTES

A. FINISH SCHEDULE GENERAL NOTES APPLY TO ALL FINISH SCHEDULE SHEETS.
B. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
C. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS.
D. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED.
E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
I. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
J. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
K. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR, UNO.
L. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

AREA NOT IN CONTRACT (NIC)

NO — PLAN KEYED NOTE

CPT / VCT — FLOOR FINISH TRANSITION

FLOOR MATERIAL DIRECTION

XX-01 — FINISH MATERIAL TAG

XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

DLR GROUP
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REGISTERED ARCHITECT
JUSTIN A. LEE
23632
STATE OF TEXAS
12/31/2025

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1 02-11-26 ISSUE FOR BID & PERMIT

39-25156-00

ENLARGED FLOOR PLANS

A2.5

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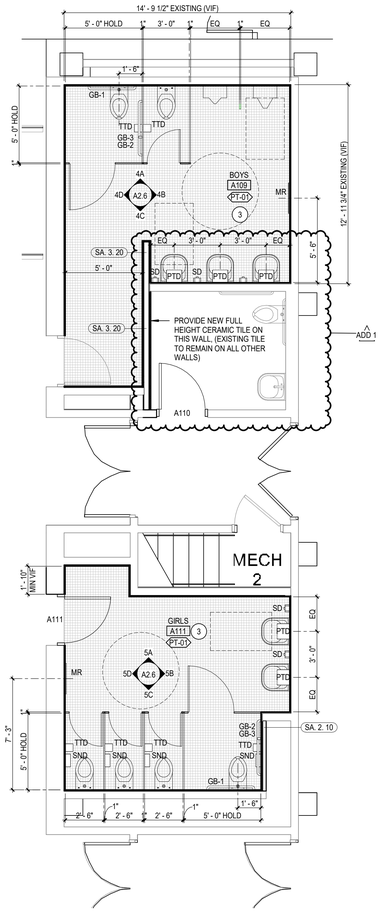
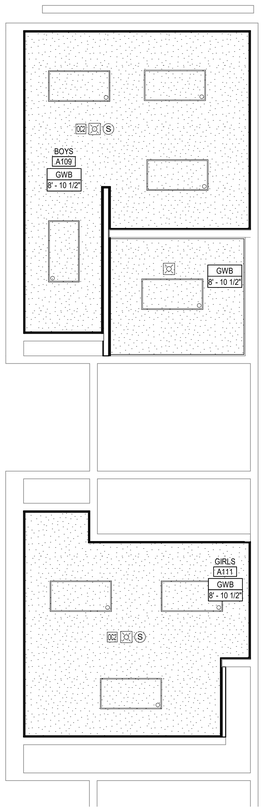


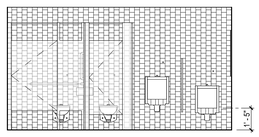
3A A2.6 ENLARGED FLOOR PLAN - BOYS / GIRL'S

SCALE: 1/4" = 1'-0"



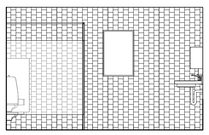
3B A2.6 ENLARGED RCP - BOY'S / GIRL'S

SCALE: 1/4" = 1'-0"



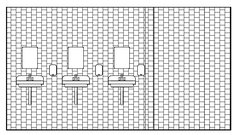
4A A2.6 A109 - BOYS - NORTH

SCALE: 1/4" = 1'-0"



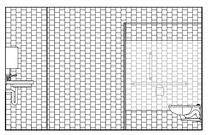
4B A2.6 A109 - BOYS - EAST

SCALE: 1/4" = 1'-0"



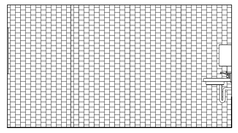
4C A2.6 A109 - BOYS - SOUTH

SCALE: 1/4" = 1'-0"



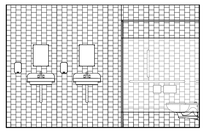
4D A2.6 A109 - BOYS - WEST

SCALE: 1/4" = 1'-0"



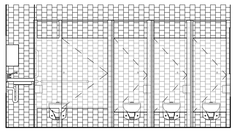
5A A2.6 A111 - GIRLS - NORTH

SCALE: 1/4" = 1'-0"



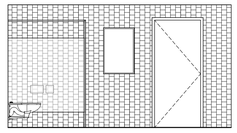
5B A2.6 A111 - GIRLS - EAST

SCALE: 1/4" = 1'-0"



5C A2.6 A111 - GIRLS - SOUTH

SCALE: 1/4" = 1'-0"



5D A2.6 A111 - GIRLS - WEST

SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
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GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

(#) SHEET NOTES

1 NEW BOTTLE FILLER DRINKING FOUNTAIN. REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.

2 EXISTING SALVAGED RE-INSTALLED BOTTLE FILLER / DRINKING FOUNTAIN, REFER MEP DRAWINGS.

3 GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX_X_XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS. SEE DETAILS ON SHEET XX.X.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
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D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

ACT, ACOUSTICAL CEILING TILE

XXX — CEILING TYPE
X-XX — CEILING HEIGHT

INTERIOR FINISH PLAN GENERAL NOTES

A. FINISH SCHEDULE GENERAL NOTES APPLY TO ALL FINISH SCHEDULE SHEETS.
B. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
C. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS.
D. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED.
E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
I. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
J. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
K. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR, UNO.
L. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

AREA NOT IN CONTRACT (NIC)
NO — PLAN KEYED NOTE
CPT / VCT — FLOOR FINISH TRANSITION
FLOOR MATERIAL DIRECTION
XX-01 — FINISH MATERIAL TAG
XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

DLR GROUP
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REGISTERED ARCHITECT — JUSTIN A. REBMAN — 23632 — STATE OF TEXAS — 12/31/2025

Rees Elementary — PERFORMING AND VISUAL ARTS ACADEMY

REES E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

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10-31-25

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39-25156-00

ENLARGED FLOOR PLANS

A2.6

Autodesk Docs://39-25156-00 Alief ISD restrm reno/39-25156-00 Rees Elementary_AR_2024.rvt
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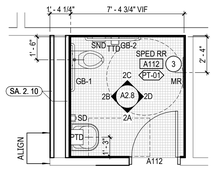
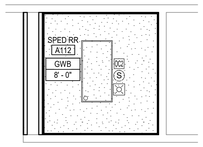


1A A2.8 ENLARGED PLAN AT SPED
SCALE: 1/4" = 1'-0"



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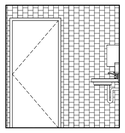
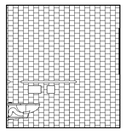
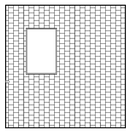


2A A2.8 A112 - SPED RR - SOUTH
SCALE: 1/4" = 1'-0"

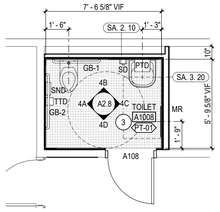
2B A2.8 A112 - SPED RR - WEST
SCALE: 1/4" = 1'-0"



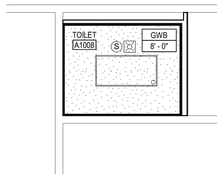
2C A2.8 A112 - SPED RR - NORTH
SCALE: 1/4" = 1'-0"



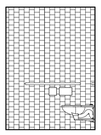
2D A2.8 A112 - SPED RR - EAST
SCALE: 1/4" = 1'-0"



3A A2.8 ENLARGED FLOOR PLAN @ A1008
SCALE: 1/4" = 1'-0"

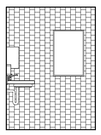


3B A2.8 OVERALL - RCP A1008
SCALE: 1/4" = 1'-0"

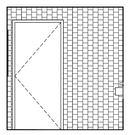


4A A2.8 A1008 - TOILET - WEST
SCALE: 1/4" = 1'-0"

4B A2.8 A1008 - TOILET - NORTH
SCALE: 1/4" = 1'-0"



4C A2.8 A1008 - TOILET - EAST
SCALE: 1/4" = 1'-0"



4D A2.8 A1008 - TOILET - SOUTH
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

(#) SHEET NOTES

1 NEW BOTTLE FILLER DRINKING FOUNTAIN. REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.
2 EXISTING SALVAGED RE-INSTALLED BOTTLE FILLER / DRINKING FOUNTAIN, REFER MEP DRAWINGS.
3 GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX.X.XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS. SEE DETAILS ON SHEET XX.X.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

ACT, ACOUSTICAL CEILING TILE

XXX — CEILING TYPE
X-XX — CEILING HEIGHT

INTERIOR FINISH PLAN GENERAL NOTES

A. FINISH SCHEDULE GENERAL NOTES APPLY TO ALL FINISH SCHEDULE SHEETS.
B. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
C. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS.
D. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED.
E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
I. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
J. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
K. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR, UNO.
L. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

AREA NOT IN CONTRACT (NIC)
NO — PLAN KEYED NOTE
CPT / VCT — FLOOR FINISH TRANSITION
FLOOR MATERIAL DIRECTION
XX-01 — FINISH MATERIAL TAG
XX-01 — EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

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REGISTERED ARCHITECT JUSTIN A. LEE 23632 STATE OF TEXAS
12/31/2025

REES ELEMENTARY
PERFORMING AND VISUAL ARTS ACADEMY

REES E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

1605 KENSLEY DRIVE
HOUSTON, TEXAS 77062

ISSUE FOR BID & PERMIT
10-31-25
REVISIONS
1 02-11-26 ISSUE FOR BID & PERMIT

39-25156-00

ENLARGED FLOOR PLANS

A2.8

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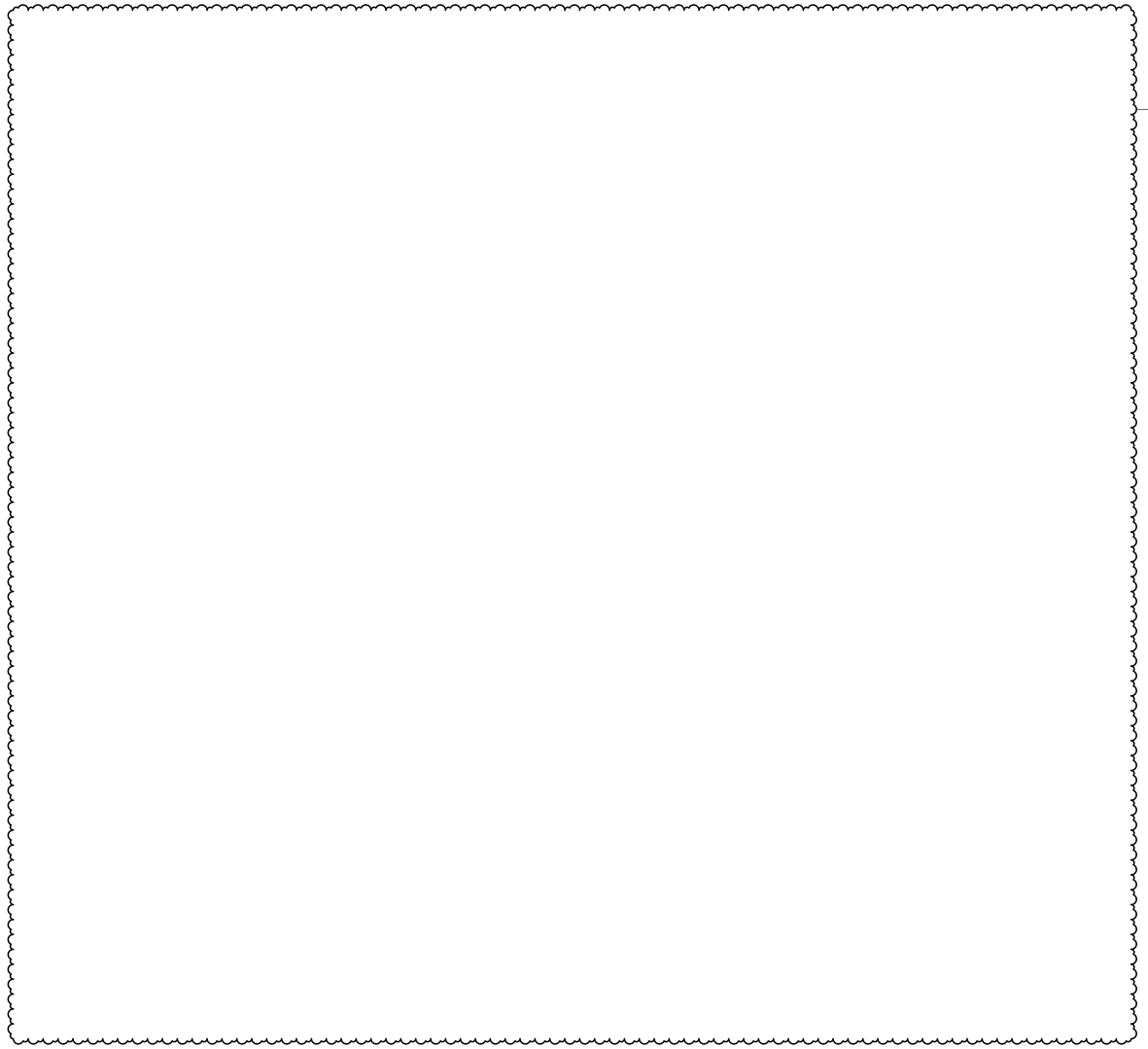

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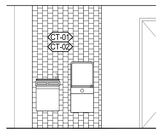

3E / A2.9 DRINKING FOUNTAIN AT ART
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

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6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS: I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
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   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
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GWB, GYPSUM BOARD CEILING

ACT, ACOUSTICAL CEILING TILE

XXX / X-XX — CEILING TYPE / CEILING HEIGHT

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E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE FINISH SCHEDULE OR FINISH PLANS.
G. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
H. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
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J. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
K. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR, UNO.
L. PROVIDE EDGE BAND AT ALL EDGES OF MDF DOORS AND DRAWER FRONTS TO MATCH DOOR/DRAWER FINISH. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL.

FINISH PLAN LEGEND

AREA NOT IN CONTRACT (NIC)
(NO) PLAN KEYED NOTE
CPT / VCT — FLOOR FINISH TRANSITION
FLOOR MATERIAL DIRECTION
XX-01 FINISH MATERIAL TAG
XX-01 EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

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REGISTERED ARCHITECT JUSTIN ALLEN 23632 STATE OF TEXAS
12/31/2025

REES ELEMENTARY PERFORMING AND VISUAL ARTS ACADEMY

REES E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

1605 KENSLEY DRIVE
HOUSTON, TEXAS 77502

ISSUE FOR BID & PERMIT
10-31-25

REVISIONS

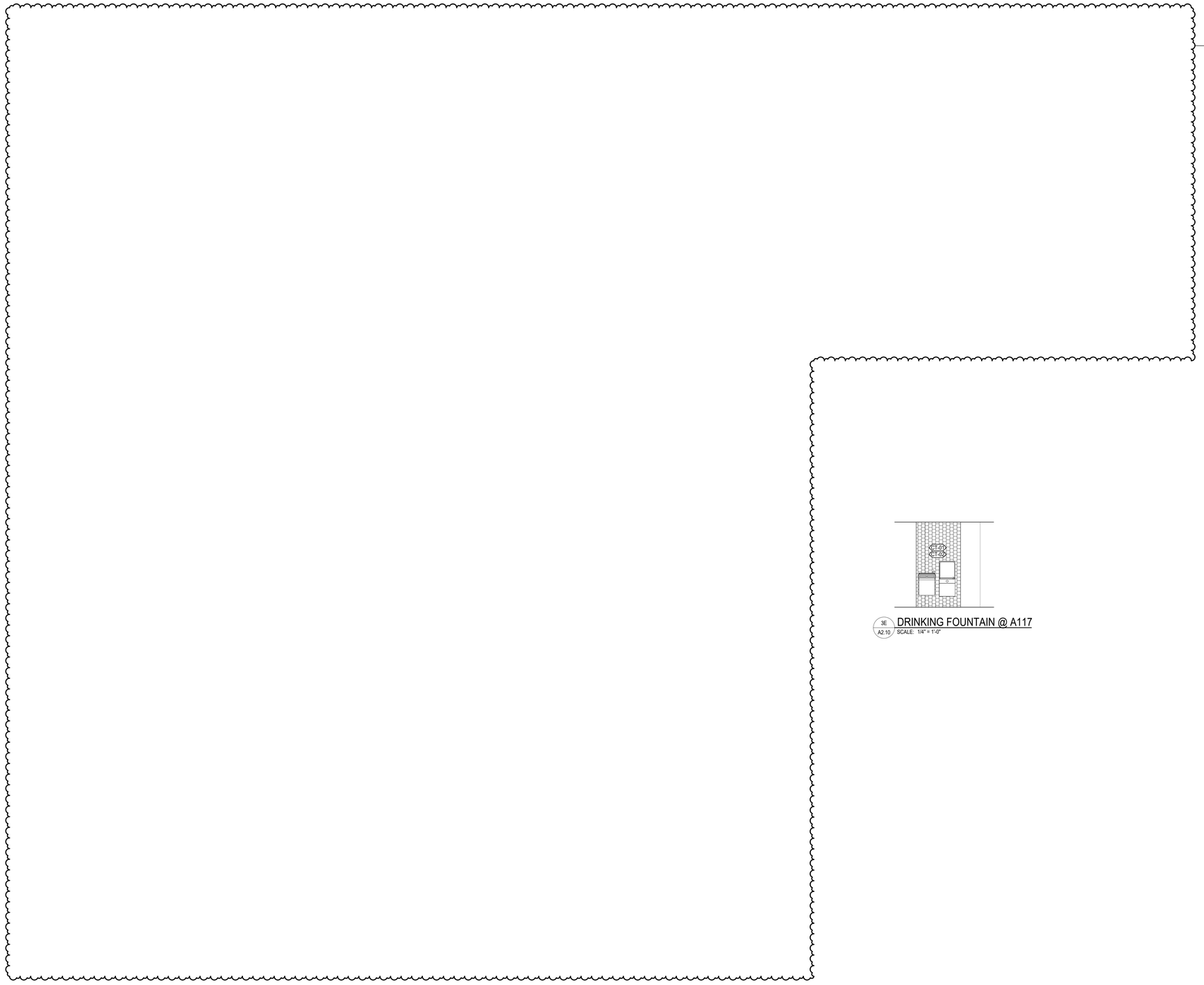
1	02-11-26	ISSUE FOR BID & PERMIT
ADD 1	04-06-26	OWNER VE

39-25156-00

ENLARGED FLOOR PLANS

A2.9

Autodesk Docs://39-25156-00 Alief ISD restrm reno/39-25156-00 Rees Elementary_AR_2024.rvt
4/7/2026 11:03:57 AM



3E / A2.10 DRINKING FOUNTAIN @ A117
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

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F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
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H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
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CPT / VCT — FLOOR FINISH TRANSITION
FLOOR MATERIAL DIRECTION
XX-01 FINISH MATERIAL TAG
XX-01 EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

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REGISTERED ARCHITECT JUSTIN A. [illegible] 23632 STATE OF TEXAS
12/31/2025

REES ELEMENTARY PERFORMING AND VISUAL ARTS ACADEMY

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ISSUE FOR BID & PERMIT
10-31-25

REVISIONS
1 03-11-26 ISSUE FOR BID & PERMIT
ADD 1 04-06-26 OWNER VE

39-25156-00

ENLARGED FLOOR PLANS

A2.10

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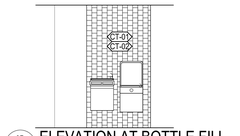
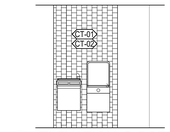
ADD 1



3D / A2.11 ELEVATION AT BOTTLE FILL
SCALE: 1/4" = 1'-0"



3E / A2.11 ELEVATION @ BOTTLE FILL
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TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
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REGISTERED ARCHITECT JUSTIN R. ALLEN 23632 STATE OF TEXAS
12/31/2025

Rees ELEMENTARY PERFORMING AND VISUAL ARTS ACADEMY

REES E.S. - RESTROOM RENOVATIONS

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REVISIONS
1 02-11-26 ISSUE FOR BID & PERMIT
ADD 1 04-06-26 OWNER VE

39-25156-00

ENLARGED FLOOR PLANS

A2.11

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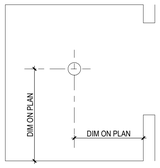
TYPICAL RULES FOR DETERMINING LOCATIONS OF VISIBLE CEILING ITEMS, DIMENSIONS, AND CONFIGURATIONS

LOCATE ITEMS AS INDICATED WHEN SHOWN DIMENSIONED BY A REFLECTED CEILING PLAN, ENLARGED REFLECTED CEILING PLAN, OR DETAIL.

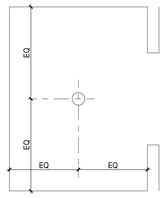
SPECIFIC DIMENSIONS SHOWN BY REFLECTED CEILING PLANS, ELEVATIONS, OR DETAILS TAKE PRECEDENCE OVER TYPICAL LOCATION RULES.



RULE 1

WHEN COMPLETELY DIMENSIONED ON REFLECTED CEILING PLAN

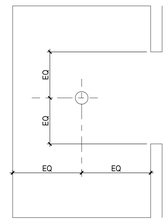
LOCATE ITEMS CENTERED IN SPACE (OR CEILING PLANE) WHEN SHOWN (BUT NOT DIMENSIONED) VISUALLY AT APPROXIMATE CENTER OF SPACE.



RULE 2

WHEN NOT DIMENSIONED BUT SHOWN CENTERED

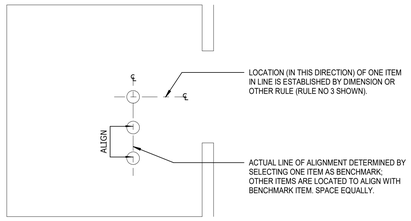
LOCATE ITEMS CENTERED ON ADJACENT OPENING OR FEATURE WHEN SHOWN (BUT NOT DIMENSIONED) OFF-CENTER IN OVERALL SPACE BUT CENTERED AGAINST ADJACENT FEATURE.



RULE 3

WHEN OFF-CENTER IN SPACE BUT CENTERED ON ADJACENT FEATURE

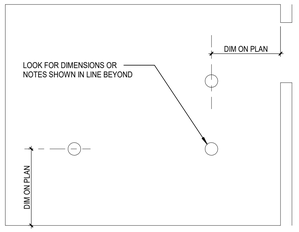
LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC) ALIGNED WITH ADJACENT ITEMS FOR WHICH DIMENSIONS OR RULES ARE PROVIDED. VISUAL ALIGNMENT IS CRITICAL. THE CONTRACTOR SHALL SELECT ONE ITEM IN EACH LINE (ON BASIS OF TOLERANCES, SEQUENCE OF CONSTRUCTION, TRADE, OR OTHER CRITERIA) TO SERVE AS THE BENCHMARK FOR EACH ALIGNMENT.



RULE 4

WHEN ALIGNED WITH OTHER FEATURES

LOCATE ITEMS ALIGNED WITH OTHER ITEMS SHOWN DIMENSIONED ELSEWHERE IN SPACE (OR CEILING PLANE).



RULE 5

ALIGN WITH FEATURES SHOWN DIMENSIONED ELSEWHERE IN SPACE

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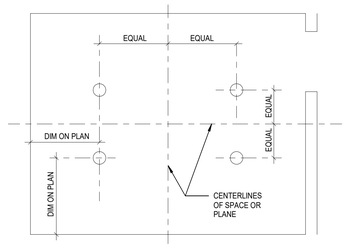
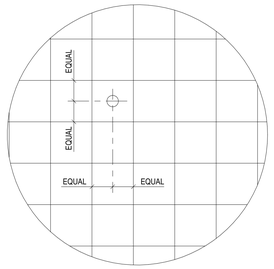


RULE 6

LOCATE FEATURES SYMMETRICALLY

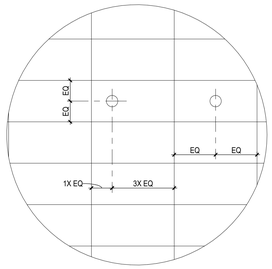
LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC) AT CENTER OF OF PANEL ON SQUARE GRID-TYPE CEILINGS



RULE 7

WHEN NOT DIMENSIONED BUT OCCURS ON A SQUARE GRID-TYPE CEILING

LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC) AT CENTER OF SHORT DIRECTION OF RECTANGULAR PANEL; LOCATE AT 1/4, 1/2, OR 3/4 POINT OF LONG DIRECTION OF RECTANGULAR PANEL



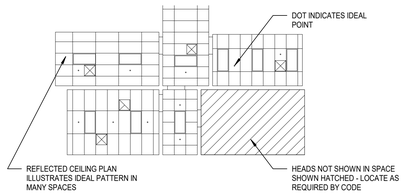
RULE 8

WHEN NOT DIMENSIONED BUT OCCURS ON A RECTANGULAR GRID-TYPE CEILING

TYPICAL TOLERANCES FOR LOCATING SPRINKLER HEADS

FOR MANY SPACES, THE ARCHITECTURAL REFLECTED CEILING PLANS ESTABLISH AN IDEAL PATTERN FOR LOCATING SPRINKLER HEADS. IN SPACES WHERE HEADS ARE SHOWN, FOLLOW PATTERN ESTABLISHED BY THE DRAWINGS. WHERE ADDL HEADS ARE REQUIRED TO CONFORM WITH CODE, PROVIDE HEADS IN GENERAL CONFORMITY WITH PATTERN ESTABLISHED BY THE DRAWINGS.

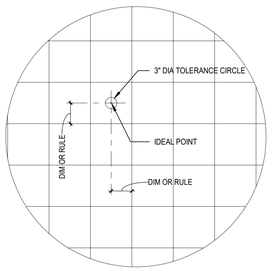
IN SPACES WHERE SPRINKLER HEADS ARE NOT SHOWN IN THE ARCHITECTURAL REFLECTED CEILING PLANS, PROVIDE HEADS AS REQUIRED BY CODE.



RULE 1

LOCATE HEADS AS SHOWN ON A-SERIES DRAWINGS

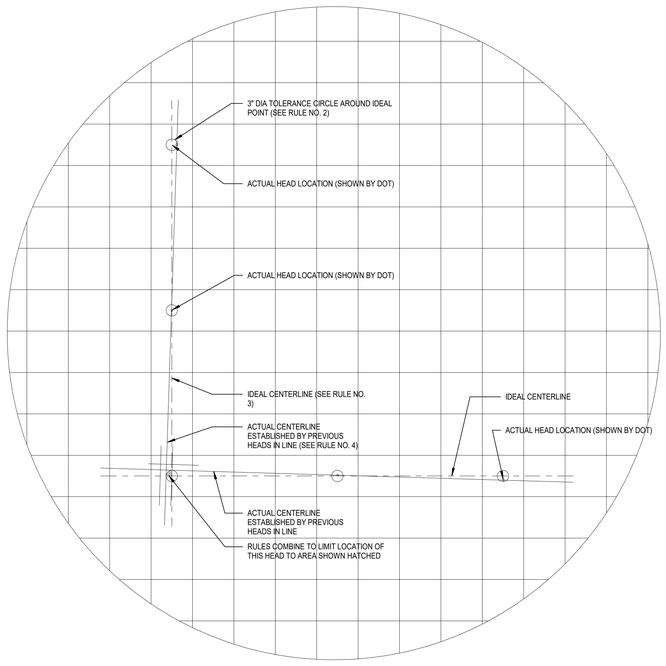
LOCATE SPRINKLER HEADS WITHIN 3" DIAMETER OF IDEAL POINT DIMENSIONED (OR SHOWN BY RULE) ON REFLECTED CEILING PLAN.



RULE 2

LOCATE HEADS WITHIN 3" DIAMETER OF IDEAL LOCATION POINT

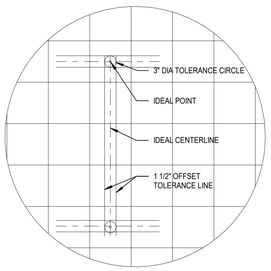
RULES NO. 2, NO. 3, AND 4 WHEN COMBINED MAY RESULT IN MORE RESTRICTIVE TOLERANCES



RULE 5

RULES COMBINED

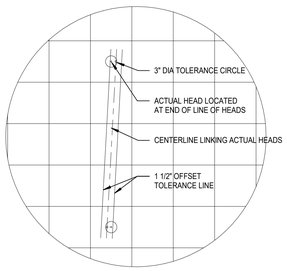
LOCATE SPRINKLER HEADS WITHIN 3" DIAMETER OF IDEAL POINT DIMENSIONED (OR SHOWN BY RULE) ON REFLECTED CEILING PLAN.



RULE 3

LOCATE LINES OF HEADS WITHIN 1 1/2" OF IDEAL CENTERLINE

LOCATE SPRINKLER HEADS WITHIN 3" DIAMETER OF IDEAL POINT DIMENSIONED (OR SHOWN BY RULE) ON REFLECTED CEILING PLAN.



RULE 4

LOCATE LINES OF HEADS WITHIN 1 1/2" OF LINE LINKING ACTUAL END HEADS

GENERAL NOTES

A. THE A-SERIES DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND LOCATION OF ALL EXPOSED ELEMENTS. THE A-SERIES DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND LOCATION OF ALL PARTS OF THE WORK.

EXCEPTION: DIMENSIONED LOCATIONS SHOWN ON ON DRAWINGS OF OTHER DISCIPLINES SHALL GOVERN ONLY WHERE:

1. SPECIFICALLY AND INDIVIDUALLY INDICATED BY SYMBOL, KEYED NOTE, OR NOTATION ON THE ARCHITECTURAL DRAWINGS.
2. OCCURRING WITHIN A ROOM OR OTHER IDENTIFIABLE SPACE FOR WHICH ARCHITECTURE SHEET OR SCHEDULE NOTES INDICATE THAT DIMENSIONS PROVIDED ELSEWHERE SHALL GOVERN.

B. THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE THE TYPICAL RULES WHICH GOVERN THE LOCATION, CONFIGURATION IN RELATIONSHIP TO OTHER ELEMENTS OF THE WORK, AND FINISHED ALIGNMENT OF ALL ITEMS OCCURRING ON REFLECTED CEILING PLANS OF THE PROJECT.

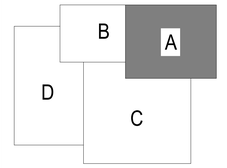
C. THE A-SERIES FLOOR PLANS, REFLECTED CEILING PLANS, SECTIONS, ELEVATIONS, AND DETAILS ILLUSTRATE THE DIMENSIONED LOCATION OF MANY - BUT NOT ALL - EXPOSED PARTS OF THE WORK. APPLY THE RULES ON THIS SHEET - IN DESCENDING ORDER - TO DETERMINE THE LOCATION OF EXPOSED PART OF THE WORK.

1. WHEN UNIQUELY AND SPECIFICALLY DIMENSIONED ON THE A-SERIES PLANS, SECTIONS, OR ELEVATIONS (OR COMBINATION THEREOF), LOCATE AS DIMENSIONED.
2. IF NOT SHOWN, OR IF SHOWN BUT NOT DIMENSIONED, BY THE A-SERIES PLANS OR ELEVATIONS, LOCATE AS INDICATED BY THE APPLICABLE RULE.

D. REFER TO THE "ARCHITECTURAL GENERAL NOTES" FOR ADDITIONAL NOTES WHICH MAY BE APPLICABLE TO THE WORK SHOWN ON THIS SHEET.

E. REFER TO THE "PROJECT GENERAL NOTES" FOR ADDITIONAL NOTES WHICH APPLY TO THE ENTIRE PROJECT.

KEY PLAN



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TYPICAL REFLECTED CEILING PLAN RULES

A3.0

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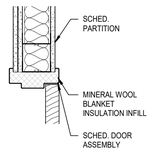
DOOR AND FRAME SCHEDULE

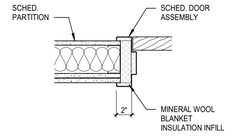
NUMBER	PANEL NO. OF PANELS	PANEL WIDTH	PANEL HEIGHT	PANEL THICKNESS	PANEL MATERIAL	PANEL GLASS	PANEL TYPE	FRAME MATERIAL	FRAME TYPE	FIRE RATING	HARDWARE SET	DETAILS HEAD	DETAILS JAMB LEFT	DETAILS JAMB RIGHT	DETAILS SILL	COMMENTS
A106	1	3' - 0"	7' - 0"	1 3/4"	WD		F	HM	1		801	2A/A8.2	2B/A8.2	2B/A8.2 O.H.	2C/A8.2	DOOR PLAM TO MATCH EXISTING
A107	1	3' - 0"	7' - 0"	1 3/4"	WD		F	HM	1		801	2A/A8.2	2B/A8.2	2B/A8.2 O.H.	2C/A8.2	DOOR PLAM TO MATCH EXISTING
A108	1	3' - 0"	7' - 0"	1 3/4"	WD		F	HM	1		341	2A/A8.2	2B/A8.2	2B/A8.2 O.H.	2C/A8.2	DOOR PLAM TO MATCH EXISTING
A110	1	3' - 0"	7' - 0"	1 3/4"	WD		F	HM	1		341-STF	2A/A8.2	2B/A8.2	2B/A8.2 O.H.	2C/A8.2	DOOR PLAM TO MATCH EXISTING
A111	1	3' - 0"	7' - 0"	1 3/4"	WD		F	HM	1		801	2A/A8.2	2B/A8.2	2B/A8.2 O.H.	2C/A8.2	DOOR PLAM TO MATCH EXISTING
A112	1	3' - 0"	7' - 0"	1 3/4"	WD		F	HM	1		403	2A/A8.2	2B/A8.2	2B/A8.2 O.H.	2C/A8.2	DOOR PLAM TO MATCH EXISTING

NOTE:
GC TO PAINT ALL DOOR FRAMES AND CASED OPENINGS TOUCHED BY THIS RENOVATION PROJECT (EXISTING OR NEW), TO MATCH ADJACENT WALL COLOR.

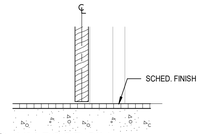
GC TO FIELD VERIFY EXISTING DOOR OPENINGS AND COORDINATE NEW OPENINGS WITH EXISTING.



2A / A8.2 HM DOOR HEAD
SCALE: 1 1/2" = 1'-0"

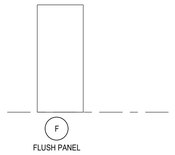


2B / A8.2 HM DOOR JAMB
SCALE: 1 1/2" = 1'-0"



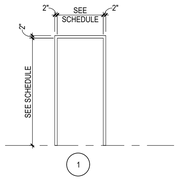
2C / A8.2 HM DOOR SILL
SCALE: 1 1/2" = 1'-0"

A ADD 1

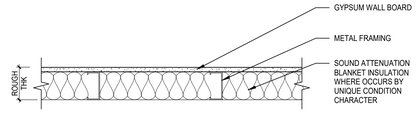


FLUSH PANEL

DOOR PANEL TYPES

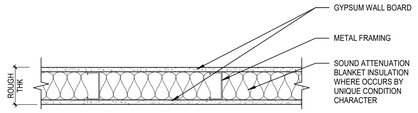


INTERIOR FRAME TYPES



S_-_-1_ NON-RATED STUD PARTITION

MARK			ROUGH THICKNESS	FIRE/SMOKE RATING	FIRE/SMOKE TESTED ASSEMBLIES	SOUND STC RATING	SOUND TESTED ASSEMBLIES	T.O. WALL DETAIL	B.O. WALL DETAIL	COMMENTS
SA	2	10	3 1/8"	NR	NA					
SA	3	10	4 1/4"	NR	NA					



S_-_-2_ NON-RATED STUD PARTITION

MARK			ROUGH THICKNESS	FIRE/SMOKE RATING	FIRE/SMOKE TESTED ASSEMBLIES	SOUND STC RATING	SOUND TESTED ASSEMBLIES	T.O. WALL DETAIL	B.O. WALL DETAIL	COMMENTS
SA	3	20	4 7/8"	NR	NA					

DOOR AND FRAME SCHEDULE GENERAL NOTES

A. NOT USED.
B. ALL INTERIOR HOLLOW METAL FRAMES SET IN MASONRY AND CONCRETE WALLS SHALL BE GROUTED SOLID.
C. ALL HOLLOW METAL FRAMES SET IN METAL STUD WALLS SHALL BE FILLED WITH MINERAL WOOL BLANKET INSULATION.
D. NOT USED.
E. NOT USED.
F. GLASS TYPES FOR DOORS ARE INDICATED IN THE DOOR GLAZING COLUMN OF THE DOOR AND FRAME SCHEDULE. GLASS TYPES FOR FRAMES ARE INDICATED ON THE FRAME ELEVATIONS.
G. NOT USED.
H. FRAME MANUFACTURER SHALL COORDINATE LOCATIONS OF ALL CONCEALED CONDUIT AND J-BOXES REQUIRED FOR SECURITY SYSTEM HARDWARE PRIOR TO MANUFACTURING OF HOLLOW METAL FRAMES AND COORDINATE WITH SECURITY HARDWARE AND DEVICES.
I. NOT USED.
J. SEE SPECIFICATIONS HARDWARE SECTION FOR HARDWARE SETS NOTED IN DOOR AND FRAME SCHEDULE.

DOOR PANEL TYPE DESCRIPTIONS

DG	DUAL LITE GLASS
F	FLUSH PANEL
FG	FULL LITE GLASS
FL	FULL LOUVERED
G	HALF LITE GLASS
GL	HALF LITE GLASS & LOUVERED
L	LOUVERED (BOTTOM)
LL	LOUVERED (TOP & BOTTOM)
N	NARROW LITE GLASS
NL	NARROW LITE GLASS & LOUVERED
TL	LOUVERED (TOP)
V	VISION LITE GLASS (10" SQUARE)
VL	VISION LITE GLASS & LOUVERED

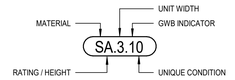
PARTITION TYPES DESCRIPTIONS

MATERIAL DESCRIPTION
S = STEEL (METAL STUDS)
W = WOOD STUDS
H = SHAFT WALLS
M = MASONRY
C = CONCRETE

RATING / HEIGHT
A = FULL HEIGHT / UNDERSIDE OF STRUCT (NOT RATED)
B = 6" ABOVE CEILING (NOT RATED)
C = UNDERSIDE OF CEILING (NOT RATED)
D = PARTIAL HEIGHT (NOT RATED)
X = VARIABLE HEIGHT (NOT RATED)
S = SMOKE PARTITON (NOT RATED)
0 = 0 HOUR RATED (CORRIDOR)
S = 0.5 HOUR RATED
1 = 1 HOUR RATED
2 = 2 HOUR RATED
3 = 3 HOUR RATED
4 = 4 HOUR RATED

UNIT WIDTH / CONFIGURATION
F = FURRING STRIPS / CHANNELS
1 = 1 5/8" METAL
2 = 2 1/2" METAL / 1 1/2" WOOD
3 = 3 5/8" METAL
4 = 4" METAL / 3 1/2 WOOD / 3 5/8" CMU
6 = 6" METAL / 5 1/2" WOOD / 5 5/8" CMU / 6" CONC
8 = 8" METAL / 7 1/4" WOOD / 7 5/8" CMU / 8" CONC
10 = 10" CONC
12 = 11 5/8" CMU / 12" CONC
X = NON-STANDARD WIDTH, SEE DETAILS
D = DOUBLE STUD FRAMING
S = STAGGERED STUD FRAMING

GYPSUM WALLBOARD INDICATOR
(NOT INCLUDING SHAFT LINER)
0 = NO GWB
1 = ONE LAYER, TAG SIDE
2 = ONE LAYER, EACH SIDE
3 = TWO LAYERS TAG SIDE, ONE LAYER OTHER
4 = TWO LAYERS, EACH SIDE
5 = TWO LAYERS TAG SIDE, NO GWB OTHER
6 = THREE LAYERS, EACH SIDE



WALL TYPE TAG

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DOOR & FRAME TYPE & SCHEDULE

A8.2

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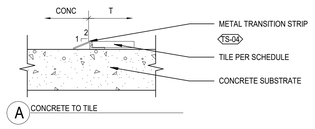
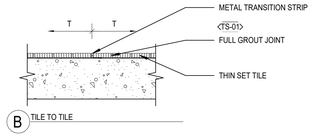
FINISH SCHEDULE

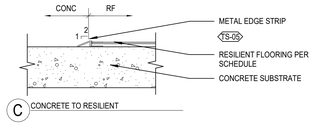
TAG	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR/FINISH	SIZE	COMMENTS
093013 TILING, GROUT & METAL TRIM ACCESSORIES						
CT-01	CERAMIC TILE	DALTILE	COLOR WHEEL CLASSIC	MATTE DESERT GRAY X714	4X4	RESTROOM WALL TILE, WATER-RESISTANT GYPSUM BOARD SHALL BE USED AS A BASE FOR WALL TILE AS SPECIFIED.
CT-02	CERAMIC TILE	DALTILE	COLOR WHEEL CLASSIC	DH50 SUNFLOWER	4X4	RESTROOM ACCENT WALL TILE, WATER-RESISTANT GYPSUM BOARD SHALL BE USED AS A BASE FOR WALL TILE AS SPECIFIED.
CT-03	CERAMIC TILE	DALTILE	COLOR WHEEL CLASSIC	K189 NAVY	4X4	RESTROOM ACCENT WALL TILE, WATER-RESISTANT GYPSUM BOARD SHALL BE USED AS A BASE FOR WALL TILE AS SPECIFIED.
G-01	GROUT	LATICRETE	PERMACOLOR	RAVEN 45		1/8" GROUT JOINT THICKNESS
PT-01	PORCELAIN TILE	DALTILE	COLOR WHEEL CLASSIC	MATTE CHARCOAL 0780	2X2	RESTROOM FLOOR TILE, CLASS A FOR ASTM E84 & CLASS II FOR MINIMUM CRITICAL RADIANT FLUX
TS-1	METAL TRIM ACCESSORY	SCHLUTER	METAL COVE SHAPED TRIM - DILEX-AHK			AT BOTTOM OF WALL TILES
TS-2	METAL TRIM ACCESSORY	SCHLUTER	FINEC			AT OUTSIDE CORNER EDGES
099124 PAINTING						
P-01	CEILING PAINT	BENJAMIN MOORE	LOW VOC, PREMIUM PAINT	BABY'S BREATH CEILING, EGGSHELL FINISH		CLASS A FOR ASTM E84
P-02	WALL PAINT	BENJAMIN MOORE	LOW VOC, PREMIUM PAINT	DECORATOR'S WHITE CC-20, SEMI-GLOSS FINISH		CLASS A FOR ASTM E84
102100 TOILET COMPARTMENTS						
TC-01	TOILET COMPARTMENT	ASI PARTITIONS	SOLID PLASTIC (HDPE)	CHARCOAL 9237		FLOOR ANCHORED; TOP BRACED, CLASS A FOR ASTM E84
PLASTIC LAMINATE LEGEND. SPEC SECTIONS: 064023, 064116, 123213, 123623.13						
PL-01	PLASTIC LAMINATE	WILSONART		MATCH EXISTING		FOR ROOM SIGNAGE



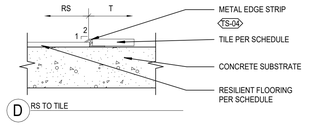
A CONCRETE TO TILE



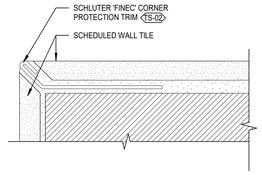
B TILE TO TILE



C CONCRETE TO RESILIENT



D RS TO TILE



2C A12.01 OUTER CORNER TILE TRANSITION
SCALE: 12" = 1'-0"

2D A12.01 FLOOR TRANSITION DETAILS
SCALE: 1 1/2" = 1'-0"

FINISH SCHEDULE GENERAL NOTES

A. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE ROOM FINISH SCHEDULE OR FINISH PLANS.
B. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
C. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
D. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
E. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
F. NOT USED.
G. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR.

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FINISH SCHEDULES

A12.01

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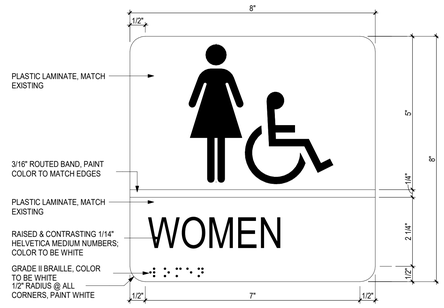
ROOM SIGN SCHEDULE				
CONSTRUCTION ROOM NUMBER (FOR CONSTRUCTION PURPOSES ONLY)	CONSTRUCTION ROOM NAME (FOR CONSTRUCTION PURPOSES ONLY)	ALIEF ISD ROOM SIGN NUMBER (FOR ROOM SIGNAGE INSTALLATION)	ALIEF ISD ROOM SIGN NAME (FOR ROOM SIGNAGE INSTALLATION)	SIGN TYPE
A106	BOYS			B
A107	GIRLS			A
A109	BOYS			B
A111	GIRLS			A
A112	SPED RR			C

ADD 1

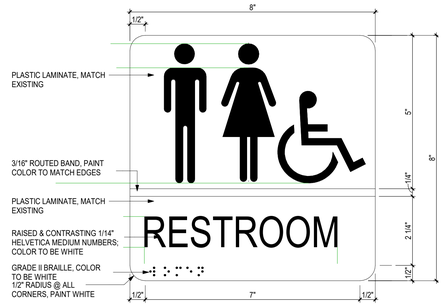
NOTE: ACTUAL ROOM NUMBERS AND ROOM NAMES TO BE PROVIDED AT LATER DATE. MATCH NEW SIGNAGE TO EXISTING SIGNAGE.



TYPE A (SHOWN) - WOMEN
TYPE B - MEN

SIGN TYPE A & B - TOILET SIGN

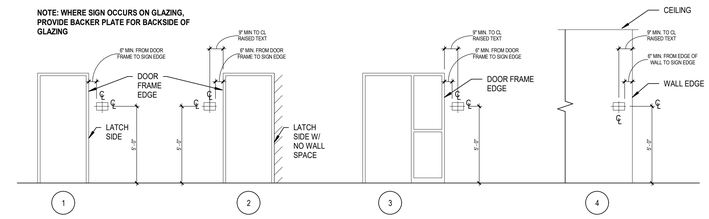
SCALE: 6" = 1'-0"

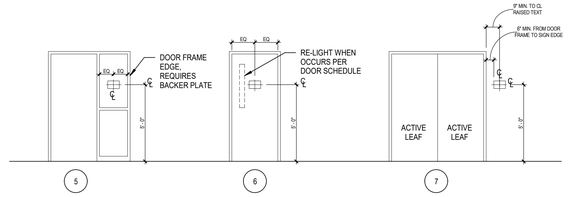


SIGN TYPE C

SCALE: 6" = 1'-0"

NOTE: WHERE SIGN OCCURS ON GLAZING, PROVIDE BACKER PLATE FOR BACKSIDE OF GLAZING





SIGN MOUNTING HEIGHTS

SCALE: 1/4" = 1'-0"

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ADD 1	04-06-26	OWNER VE

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SIGNAGE PLAN

A14.1

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ABBREVIATIONS

A

A	AIR (COMPRESSED)
ABV	ABOVE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT, AIR COMPRESSOR
ACCH	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR, AREA DRAIN
ADJ	ADJUSTABLE
AF	AIR FILTER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHRI	AIR-CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMB	AMBIENT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARCH	ARCHITECT, ARCHITECTURAL
AS	AIR SEPARATOR
ASHP	AIR SOURCE HEAT PUMP
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AVG	AVERAGE
AWS	AMERICAN WELDING SOCIETY
AUX	AUXILIARY

B

B	BOILER
BC	BELOW COUNTER
B/C	BACK OF CURB
BFF	BELOW FINISHED FLOOR
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BM	BENCHMARK
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BP	BACKFLOW PREVENTER
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE

C

C	CELSIUS
CAB	CABINET
CD	CONDENSATE DRAIN LINE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CH	CHILLER
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CHW	CHILLED WATER
CHWP	CHILLED WATER PUMP
CI	CAST IRON
CIRC	CIRCULATING
CL	CENTERLINE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESSOR
CONC	CONCRETE, CONCENTRIC
COND	CONDENSER, CONDENSATE
CONN	CONNECTION
CONT	CONTINUOUS,CONTINUATION
CTR	CENTER
CU	COPPER
CV	CONSTANT VOLUME

D

D	DEPTH, DRAIN, DRYER
DB	DRY BULB
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DDMB	DUAL DUCT MIXING BOX
DESIG	DESIGNATION
DTL	DETAIL
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DPR	DAMPER
DW	DISHWASHER
DWG	DRAWING
DX	DIRECT EXPANSION

E

EA	EACH
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
EDB	ENTERING DRY BULB
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EMERG	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETD	EXISTING TO BE DEMOLISHED
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORATOR
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EX	EXPLOSION PROOF
EXT	EXTERNAL
EXTG	EXISTING

F

F	FAHRENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCU	FAN COIL UNIT
FD	FLOOR DRAIN, FIRE DAMPER
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FPTU	FAN POWERED TERMINAL UNIT
FT	FOOT, FEET
FUT	FUTURE

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLV	GLOBE VALVE
GND	GROUND
GPM	GALLONS PER MINUTE
GUH	GAS UNIT HEATER
GV	GATE VALVE

H

HDT	HORIZONTAL DRAW THROUGH
HORIZ	HORIZONTAL
HP	HORSEPOWER, HEAT PUMP
HSTAT	HUMIDISTAT
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HWP	HEATING WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IH	INFRARED HEATER
IN	INCH
INSUL	INSULATION
INT	INTERNAL, INTERIOR

K

KEC	KITCHEN EQUIPMENT CONTRACTOR
KO	KNOCKOUT
KVA	KILOVOLT- AMPS
KW	KILOWATT

L

L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LF	LINEAR FEET
LP	LOW PRESSURE
LRA	LOCKED ROTOR AMPS
LVL	LEVEL
LWB	LEAVING WET BULB
LWCO	LOW WATER CUT OFF
LWT	LEAVING WATER TEMPERATURE

M

MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MI	MALLEABLE IRON
MIN	MINIMUM
MP	MEDIUM PRESSURE
MTD	MOUNTED
MU	MAKE-UP
MVD	MANUAL VOLUME DAMPER
MSAH	MINI-SPLIT AIR HANDLER
MSCU	MINI-SPLIT CONDENSING UNIT
MZ	MULTI-ZONE

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE

O

OA	OUTSIDE AIR
OAF	OUTSIDE AIR FAN
OAHU	OUTSIDE AIR HANDLING UNIT
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OFCU	OUTSIDE AIR FAN COIL UNIT
OPG	OPENING
OS&Y	OUTSIDE SCREW AND YOKE

P

PG	PRESSURE GAUGE
PP	POLYPROPYLENE
PPM	PART PER MILLION
PRI	PRIMARY
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE

Q

QTY	QUANTITY

R

RA	RETURN AIR
RAD	REFRIGERATED AIR DRYER
RAF	RETURN AIR FAN
RAG	RETURN AIR GRILLE
RAT	RETURN AIR TEMPERATURE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE	REFERENCE, REFER
RED	REDUCER
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION, REVISE
RH	RELATIVE HUMIDITY
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RLA	RUNNING LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SAG	SUPPLY AIR GRILLE
SAR	SUPPLY AIR REGISTER
SC	STEAM CONDENSATE
SCHED	SCHEDULED
SEC	SECONDARY
SECT	SECTION
SENS	SENSIBLE
SF	SQUARE FEET
SFCS	SPRINKLER FLOOR CONTROL STATION
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SM	SHEETMETAL
SP	STATIC PRESSURE, SUMP PUMP
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	STAINLESS STEEL
SSSC	SOLID STATE SPEED CONTROL
STD	STANDARD
STL	STEEL
STM	STEAM
STR	STRAINER
SURF	SURFACE
SUSP	SUSPEND
SV	SANITARY VENT
SW	SOFT WATER
SZ	SINGLE ZONE

T

TC	TEMPERATURE CONTROL
TDH	TOTAL DYNAMIC HEAD
TF	TRANSFER FAN
TH BLK	THRUST BLOCK
THERM	THERMOMETER
TMV	THERMOSTATIC MIXING VALVE
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TW	TEMPERED HOT WATER
TYP	TYPICAL

U

UCD	UNDER CUT DOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC
UNO	UNLESS NOTED OTHERWISE
U/F	UNDERFLOOR
U/S	UNDERSLAB

V

V	VOLT
VA	VOLT- AMPERE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VB	VALVE BOX, VACUUM BREAKER
VD	VOLUME DAMPER
VDT	VERTICAL DRAW THROUGH
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIB	VALVE IN BOX
VOV	VALVE ON VERTICAL
VP	VACUUM PUMP
VRF	VARIABLE REFRIGERANT FLOW
VVR	VARIABLE AIR VOLUME REHEAT

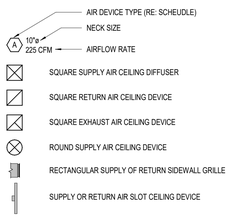
W

W	WATT, WIDTH
W/	WITH
W/O	WITHOUT
WB	WET BULB
WM	WATER METER
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WSHP	WATER SOURCE HEAT PUMP
WWF	WELDED WIRE FABRIC

Z

Z	ZONE

AIR DEVICE TYPES



WALL MOUNTED SENSOR AND DEVICE TYPES

- (T) THERMOSTAT / TEMPERATURE SENSOR
- (H) HUMIDISTAT / HUMIDITY SENSOR
- (C) CARBON DIOXIDE SENSOR
- (CO) CARBON MONOXIDE SENSOR
- (N) NITROGEN DIOXIDE SENSOR
- (P) PRESSURE SENSOR
- (S) REFRIGERANT DETECTION SENSOR
- ($) ON/OFF SWITCH
- EPO EMERGENCY POWER OFF BUTTON
- AV REFRIGERANT AUDIO/VISUAL DETECTION ALARM

CONTROLS SCHEMATIC SYMBOLS LEGEND

AI	ANALOG INPUT	FS	FLOW SWITCH
AO	ANALOG OUTPUT	DAT	DISCHARGE AIR TEMPERATURE SENSOR
DI/BI	DIGITAL/BINARY INPUT	(S)	WALL SENSOR
DO/BO	DIGITAL/BINARY OUTPUT	(T)	THERMOSTAT
MD	ON-OFF MOTORIZED DAMPER	CO2	CARBON DIOXIDE SENSOR
MMD	MODULATING TYPE MOTORIZED DAMPER	SP	SET POINT
AFMS	AIR FLOW MEASURING STATION	S/A	SUPPLY AIR
MCV	CONTROL VALVE MODULATING TYPE	R/A	RETURN AIR
VFD	VARIABLE FREQUENCY DRIVE	O/A	OUTSIDE AIR
CSR	CURRENT SENSING RELAY	HC	HEATING COIL
FRZ	FREEZESTAT	CC	COOLING COIL
HSL	HIGH STATIC LIMIT	DX	DIRECT EXPANSION COOLING COIL
SPT	STATIC PRESSURE TRANSMITTER	PICCV	PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE
DPT	DIFFERENTIAL PRESSURE TRANSDUCER	AFC	AIRFLOW CROSS
FM	FLOW METER	DPS	DIFFERENTIAL PRESSURE SWITCH

PIPING TYPES

CD	CONDENSATE DRAIN LINE	REF	REFRIGERANT PIPING SIZED BY MFR.
CHS	CHILLED WATER SUPPLY	HPS	HIGH PRESSURE STEAM SUPPLY
CHR	CHILLED WATER RETURN	HPR	HIGH PRESSURE CONDENSATE RETURN
HWS	HOT WATER SUPPLY	LPS	LOW PRESSURE STEAM SUPPLY
HWR	HOT WATER RETURN	LPR	LOW PRESSURE CONDENSATE RETURN
CWS	CONDENSER WATER SUPPLY	PCR	PUMPED CONDENSATE RETURN
CWR	CONDENSER WATER RETURN		

DESIGN CRITERIA

LOCATION:
(Enter project address here)

ELEVATION: X,XXX FEET

DESIGN CONDITIONS:

HEATING DB:	XX °F (ASHRAE 99.6%)
COOLING DB / WB:	XX °F / XX °F (ASHRAE 0.4%)
DEHUMIDIFICATION DP / DB:	XX °F / XX °F (ASHRAE 0.4%)

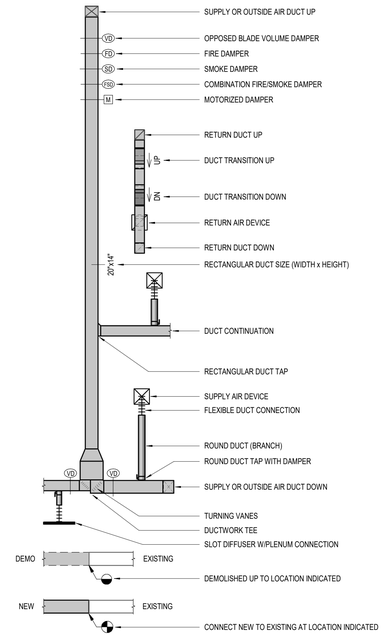
SPACE INDOOR DESIGN TEMPERATURE:

HEATING DB:	70 °F
COOLING DB:	75 °F
RELATIVE HUMIDITY	55%

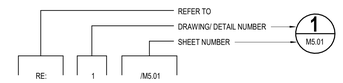
BUILDING CODES & STANDARDS

APPLICABLE CODES:
20XX INTERNATIONAL BUILDING CODE
20XX INTERNATIONAL FIRE CODE
20XX INTERNATIONAL MECHANICAL CODE
20XX INTERNATIONAL PLUMBING CODE
20XX INTERNATIONAL ENERGY CONSERVATION CODE
20XX INTERNATIONAL FUEL GAS CODE
20XX NATIONAL ELECTRICAL CODE

DUCTWORK



DRAWING/DETAIL REFERENCE KEY



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10-31-2025
REVISIONS
2 02-11-26 ISSUE FOR BID & PERMIT
3 04-06-26 OWNER VE

Project Number

MECHANICAL SYMBOL LEGEND

M0.01

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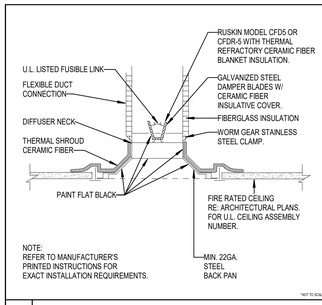
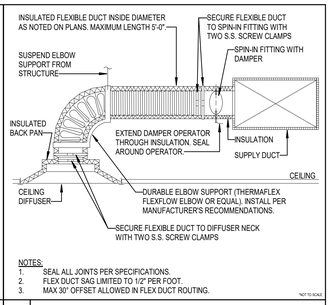


2 FIRE RATED SUPPLY DAMPER M1B1B



1 CEILING DIFFUSER CONNECTION M1B1B

DEMO/RENO MECHANICAL GENERAL NOTES

A. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR SCOPE OF DEMOLITION WORK, EXACT LOCATIONS, CONDITIONS, PHASING, CONSTRUCTION SCHEDULING, AND ANY ADDITIONAL DEMOLITION NOTES, REQUIREMENTS, ETC.

B. MECHANICAL DEMOLITION DRAWINGS ARE GENERALLY DIAGRAMMATIC AND IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT ALL MECHANICAL SYSTEMS SHALL REMAIN UNLESS NOTED TO BE REMOVED OR DEMOLISHED. VERIFY EXACT LOCATIONS AND CONDITIONS AND COORDINATE WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO REMOVING ANY EXISTING ITEMS. DO NOT ABANDON ANY ITEMS IN PLACE.

C. EQUIPMENT, DUCTWORK, PIPING, ETC. INDICATED AS EXISTING (E) SHALL REMAIN AND BE RE-USED IN EXISTING LOCATIONS. IF EXISTING ITEMS CONFLICT WITH NEW CONSTRUCTION, CONTRACTOR SHALL RELOCATE, REWORK, REROUTE, RECONNECT, AND REINSTALL COMPLETELY AS REQUIRED AS IF NEW AT NO ADDITIONAL COST. COORDINATE WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, ARCHITECT, ETC. PRIOR TO RELOCATION. REFER TO APPLICABLE NOTES FOR NEW ITEMS.

D. EQUIPMENT, DUCTWORK, PIPING ETC. INDICATED AS EXISTING TO BE DEMOLISHED (D) SHALL BE REMOVED IN THEIR ENTIRETY. ALL APPURTENANCES, RELATED COMPONENTS, INCLUDING ALL DUCTWORK, PIPING, SUPPORTS, HANGERS, CONTROLS, ETC. ASSOCIATED WITH EACH ITEM SHALL BE REMOVED UNLESS NOTED OTHERWISE. CAP ALL DUCTWORK AND PIPING AS REQUIRED SERVING EACH ITEM AT BUILDING MAINS. VERIFY EXACT LOCATIONS AND CONDITIONS AND COORDINATE WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO REMOVING ANY EXISTING ITEMS. DO NOT ABANDON ANY ITEMS IN PLACE.

E. WHERE CONSTRUCTION, EXISTING DUCTWORK, MECHANICAL / PLUMBING / FIRE SPRINKLER PIPING, ELECTRICAL CONDUIT, CABLING, ETC. WHICH MUST REMAIN AS PART OF AN ACTIVE SYSTEM CONFLICTS WITH NEW CONSTRUCTION, CONTRACTOR SHALL RELOCATE, REWORK, REROUTE, RECONNECT, AND REINSTALL COMPLETELY AS REQUIRED AS IF NEW AT NO ADDITIONAL COST. COORDINATE WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, ARCHITECT, ETC. PRIOR TO RELOCATION. REFER TO APPLICABLE NOTES FOR NEW ITEMS.

F. CONTRACTOR SHALL COORDINATE WITH EACH TRADE CONTRACTOR FOR REMOVAL OF EXISTING ELECTRICAL AND PLUMBING SERVICES INCLUDING ALL CONDUIT, WIRING, PIPING, INSULATION, APPURTENANCES, RELATED COMPONENTS, ETC. ASSOCIATED WITH REMOVAL OF EXISTING MECHANICAL EQUIPMENT. VERIFY EXACT LOCATIONS AND CONDITIONS AND COORDINATE WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO REMOVING ANY EXISTING ITEMS. DO NOT ABANDON ANY ITEMS IN PLACE.

G. THESE DRAWINGS WERE PREPARED FROM THE BEST INFORMATION AVAILABLE. ORIGINAL DRAWINGS, FIELD OBSERVATIONS, ETC., BUT MAY NOT INDICATE THE EXACT LOCATION OF ALL EXISTING MECHANICAL COMPONENTS. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE EXISTING CONDITIONS SURROUNDING THE INSTALLATION OF THEIR WORK PRIOR TO PROCEEDING WITH THE INSTALLATION. MODIFICATIONS REQUIRED DUE TO EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER / OWNER FOR REVIEW BY WAY OF SHOP DRAWINGS OR SKETCHES DETAILING THE EXISTING CONDITIONS AND THE PROPOSED REVISION.

H. CONTRACTOR SHALL BE RESPONSIBLE TO VISIT THE JOBSITE, COMPLETELY REVIEW CONTRACT DOCUMENTS, AND FIELD VERIFY EXTENT OF WORK AND EXACT LOCATIONS AND CONDITIONS OF ALL NEW AND EXISTING CONSTRUCTION, ELEVATIONS, SERVICE POINTS, ETC. AS REQUIRED FOR A COMPLETE AND CORRECTLY OPERATING SYSTEM. CONTACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, AND REPORT IN WRITING ANY CONFLICTS, PROBLEMS, OR ANY CONDITION THAT MAY ADVERSELY AFFECT THE PROPER EXECUTION OF THE WORK THAT IS NOT INDICATED ON THE DRAWINGS. THIS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR MAKING ANY CORRECTIONS OR ALTERATIONS DEEMED NECESSARY TO COMPLETE THE WORK AND SHALL INCLUDE ALL ASSOCIATED COSTS IN THEIR BID WITH NO ADDITIONAL EXPENSE.

I. CONTRACTOR SHALL COORDINATE ALL CUTTING AND PATCHING OF EXISTING WALLS, CEILINGS, ROOF AND FLOOR REQUIRED FOR THEIR WORK WITH GENERAL CONTRACTOR, STRUCTURAL ENGINEER, AND OWNER'S REPRESENTATIVE. ALL PENETRATIONS SHALL BE SEALED AND RESTORED TO THE ORIGINAL CONDITIONS, STRUCTURAL PROPERTIES, AND FINISHED IN SAME MATERIALS AND MANNER AS ADJACENT AREAS. ALL ROOF PENETRATIONS, ROOF PIPE SUPPORTS, FLASHINGS, ETC. SHALL BE MADE WATERTIGHT AND AS RECOMMENDED BY THE ROOF MANUFACTURER. ALL EXISTING PENETRATIONS WHICH ARE NOT TO BE REUSED SHALL BE PROPERLY SEALED OFF TO MAINTAIN THE STRUCTURAL, WATERPROOF, AND FIREPROOF INTEGRITY OF THE WALL, FLOOR, OR ROOF SYSTEM PENETRATED.

J. COORDINATE ALL RENOVATIONS / REMODEL / DEMOLITION WORK WITH THE OWNER'S REPRESENTATIVE, BUILDING ENGINEER / MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT, FIXTURES, OR SYSTEMS THAT WILL AFFECT OTHER SYSTEM WITHIN THE AREA OF CONSTRUCTION, OR OTHER AREAS OF THE BUILDING. CONTRACTOR SHALL NOTE THAT THE BUILDING IS OCCUPIED, AND WILL REMAIN SO DURING CONSTRUCTION; AND, THEREFORE, UTILITIES / BUILDING SYSTEMS MUST REMAIN IN OPERATION. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE AND BUILDING ENGINEER / MAINTENANCE PERSONNEL. PROVIDE TEMPORARY CONNECTIONS OF UTILITIES AND AIR CONDITIONING AS NECESSARY TO FACILITATE THE PHASING OF CONSTRUCTION.

K. ALL WORK SHALL BE SCHEDULED AND PERFORMED IN STRICT COORDINATION WITH CONSTRUCTION PHASING AND WITH OWNERS' SCHEDULES, OCCUPANCIES, ETC. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK, PIPING, ETC. AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE.

L. PRIOR TO THE REMOVAL OF ANY MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT, FIXTURES, OR SYSTEMS, THE CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEM AND CONFIRM THAT THE ITEMS BEING REMOVED DO NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE CONTRACT LIMITS). WHEN RENOVATION / REMODEL / DEMOLITION WORK IS PERFORMED, THE CONTRACTOR SHALL EXERCISE CARE IN PROTECTING EXISTING ITEMS TO REMAIN AND EXISTING ITEMS TO BE REMOVED AND RELOCATED. PROTECT ALL EXISTING BUILDING COMPONENTS, WALLS, FLOORS, FINISHES, FURNISHINGS, ADJACENT EQUIPMENT, LIGHTING, ETC. ANY ITEMS DAMAGED OR WHERE FINISHES HAVE BEEN MARRED, SHALL BE REPAIRED AND REFINISHED TO ORIGINAL CONDITION AT NO COST TO THE OWNER. ALL ITEMS SOILED IN THE PROGRESS OF THE WORK SHALL BE CLEANED TO THEIR PRE- EXISTING CONDITIONS.

M. ALL EXISTING EQUIPMENT REMOVED SHALL BE PROTECTED FROM DAMAGE IN SO FAR AS PRACTICAL. THESE ITEMS SHALL BE STORED ON SITE FOR A MINIMUM OF TWO (2) WEEKS UNLESS INDICTED OTHERWISE BY THE OWNER'S REPRESENTATIVE TO ALLOW INSPECTION BY THE OWNER. ALL ITEMS RETAINED BY THE OWNER SHALL BE TAGGED AND STORED ON SITE UNTIL DIRECTED OTHERWISE BY OWNER. ALL ITEMS NOT RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND DISPOSED OF PROPERLY.

N. REWORK AND REPAIR ALL DUCTWORK AND PIPING INSULATION DAMAGED OR REMOVED DURING RENOVATION / REMODEL / DEMOLITION AS REQUIRED TO MATCH EXISTING.

O. EQUIPMENT INGRESS AND EGRESS ROUTES FOR THE RENOVATION WORK SHALL BE COORDINATED WITH THE OWNER. COORDINATE TIMES, DATES, AND DURATIONS WITH OWNER A MINIMUM OF 2 WEEKS IN ADVANCE TO ENSURE THERE ARE NO CONFLICTS IN USAGE OF EQUIPMENT/SPACES.

P. ALL EXISTING EQUIPMENT THAT INCLUDES A REFRIGERATION CIRCUIT THAT IS TO BE DEMOLISHED OR RELOCATED SHALL HAVE THE REFRIGERANT CHARGE RECOVERED PRIOR TO DEMOLITION OR RELOCATION. REFRIGERANT RECOVERY SHALL COMPLY WITH EPA, STATE, AND LOCAL JURISDICTION REQUIREMENTS. RECOVERED REFRIGERANTS SHALL NOT BE USED IN ANY SYSTEM, NEW OR EXISTING, UNLESS THE REFRIGERANT HAS BEEN RECLAIMED AND FOUND TO MEET THE PURITY REQUIREMENTS OF AHRI 700.

Q. EXISTING EQUIPMENT BEING RELOCATED SHALL BE VERIFIED TO BE IN PROPER OPERATING CONDITION PRIOR TO EQUIPMENT RELOCATION. VERIFICATION SHALL BE PERFORMED BY EQUIPMENT MANUFACTURER'S AUTHORIZED SERVICE REPRESENTATIVE. IF EXISTING EQUIPMENT IS FOUND TO BE DEFICIENT, THE SERVICE REPRESENTATIVE SHALL NOTIFY THE ENGINEER AND OWNER AND PROVIDE RECOMMENDATIONS TO RESTORE EQUIPMENT TO PROPER OPERATING CONDITION.

DLRGROUP
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MECHANICAL GENERAL NOTES & DETAILS

M0.11

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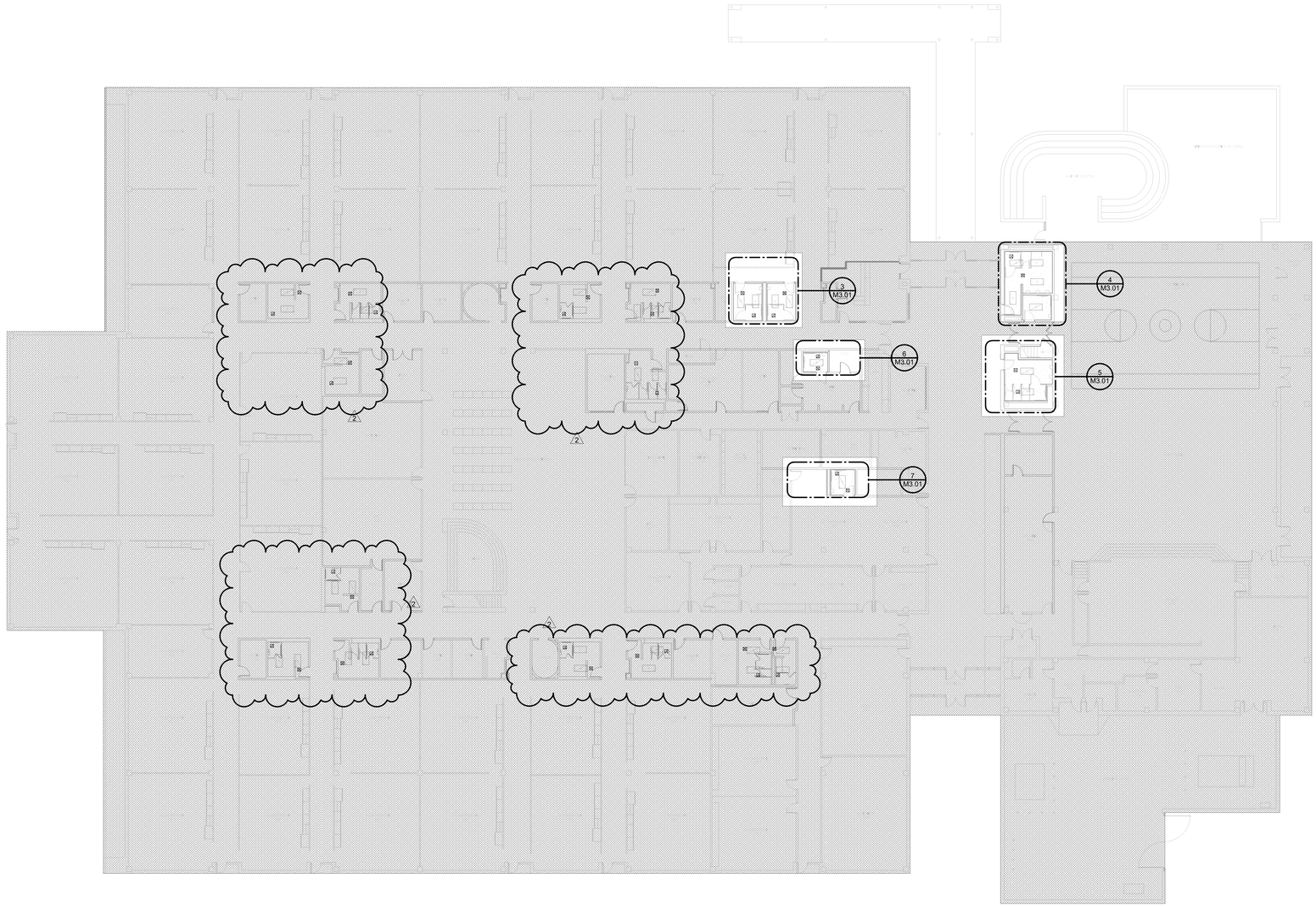

1 LEVEL 01 - MECHANICAL PLAN

1/16" = 1'-0"

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10-31-2025

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LEVEL 01 - MECHANICAL PLAN

M2.11

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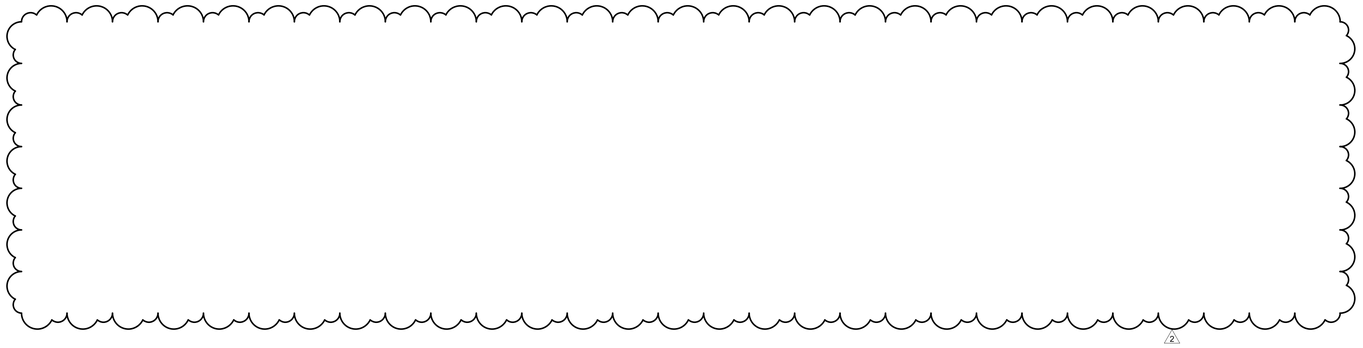
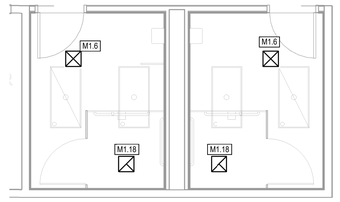


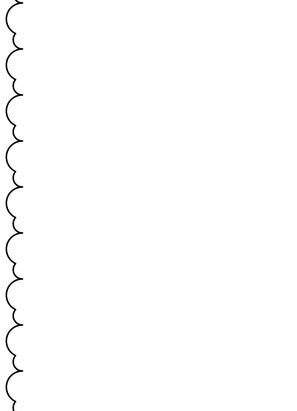


3 LEVEL 01 - MECHANICAL PLAN - BOYS & GIRLS A106 / A107
1/4" = 1'-0"

MECHANICAL KEYED NOTES

M1.6 MECHANICAL CONTRACTOR SHALL REPLACE EXISTING SUPPLY AIR DIFFUSER IN RESTROOM AREA TO NEW LOCATION SHOWN. PROVIDE NECESSARY TRANSITION TO CONNECT NEW 1'X1' DIFFUSER TO EXISTING DUCTWORK, SEAL AIR TIGHT. COORDINATE GRILLE LOCATION WITH LIGHTING. BASIS OF DESIGN: MODEL TITUS TMSA-FR. COORDINATE WITH ARCHITECT FOR FINISH/COLOR.

M1.18 MECHANICAL CONTRACTOR SHALL REPLACE 1'X1' EXISTING RETURN AIR DIFFUSER IN RESTROOM AREA TO NEW LOCATION SHOWN. COORDINATE GRILLE LOCATION WITH LIGHTING. BASIS OF DESIGN: MODEL TITUS PAR-AA. COORDINATE WITH ARCHITECT FOR FINISH/COLOR.



4 LEVEL 01 - MECHANICAL PLAN - BOYS A109 & STAFF A110
1/4" = 1'-0"

5 LEVEL 01 - MECHANICAL PLAN - GIRLS A111
1/4" = 1'-0"

6 LEVEL 01 - MECHANICAL PLAN - TOILET A1008
1/4" = 1'-0"

7 LEVEL 01 - MECHANICAL PLAN - SPED RR A112
1/4" = 1'-0"

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LEVEL 01 - MECHANICAL PLAN - ENLARGED

M3.01

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ABBREVIATIONS

AC	ALTERNATING CURRENT
AF	AMPERE FUSE; AMPERE FRAME
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPT CAPACITY
AL	ALUMINUM
AM	AMMETER
AMP	AMPLIFIER
ANN	ANNUNCIATOR
ASC	AMPERES SHORT CIRCUIT
AT	AMPERE TRIP RATING
ATS	AUTOMATIC TRANSFER SWITCH
AUX.	AUXILIARY
BKR	BREAKER
BLDG.	BUILDING
C	CONDUIT, CELSIUS
CKT	CIRCUIT
CLG.	CEILING
CONT.	CONTINUOUS,CONTINUATION
CONTR	CONTROLLER, CONTRACTOR
CT	CURRENT TRANSFORMER/COOLING TOWER
CU	COPPER
DAS	DISTRIBUTED ANTENNA SYSTEM
DC	DIRECT CURRENT
DISC	DISCONNECT
DP	DISTRIBUTION PANEL
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DWG	DRAWING
ELEV.	ELEVATOR
EPO	EMERGENCY POWER OFF
ERRC	EMERGENCY RESPONDER RADIO COVERAGE SYSTEM
FA	FIRE ALARM
FF	FURNITURE FEED
FLA	FULL LOAD AMPS
FTL	FEED-THRU LUGS
GA	GAUGE
GEN	GENERATOR
GND	GROUND
GTD	GENERATOR TRANSFER DEVICE
IG	ISOLATED GROUND
LF	LINEAR FEET
LTG	LIGHTING
LV	LOW VOLTAGE
LVL	LEVEL
MAX.	MAXIMUM
MC	METAL CLAD CABLE
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCCB	MOLDED CASE CIRCUIT BREAKER
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MIC	MICROPHONE
MIN.	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MSB	MAIN SWITCHBOARD
N3R	NEMA 3R
N4X	NEMA 4X
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NFS	NON-FUSED SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE
PH	PHASE
POS	POINT OF SALE
QTY	QUANTITY
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
RE	REFERENCE, REFER
SF	SQUARE FOOT
SIM	SIMILAR
SKVA	STARTING KILOVOLT-AMPS
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE-POLE, DOUBLE-THROW
SPST	SINGLE-POLE, SINGLE-THROW
SPEC	SPECIFICATION
SQFT	SQUARE FOOT
ST	SHUNT TRIP
SWB	SWITCHBOARD
TL	TWIST-LOCK
TOC	TOP OF CURB
TOS	TOP OF STEEL
TR	TAMPER RESISTANT RECEPTACLE
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SYSTEM
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF
WT	WATERTIGHT, WEIGHT
W/SF	WATTS PER SQUARE FOOT
XFMR	TRANSFORMER

MANY ABBREVIATIONS NOT LISTED MAY BE FOUND IN THE NATIONAL ELECTRIC CODE, OR IN THE INTERNATIONAL AND UNIFORM CODES

PHASING

(E)	EXISTING (TO REMAIN)
(D)	SHALL BE DEMOLISHED
(N)	PROVIDE NEW
(R)	RELOCATED ELEMENT

ELECTRICAL SYMBOLS

MOTORS AND CONTROLS

- MOTOR RATED SWITCH WITH THERMAL OVERLOADS
- (5) SINGLE OR THREE PHASE MOTOR NUMBER INDICATES HORSE POWER
- ELECTRIC DUCT HEATER
- DISCONNECT (SAFETY) SWITCH "200/3/150" DENOTES AMPERES/POLE/FUSE, "NF" DENOTES NON-FUSED "N3R" DENOTES NEMA 3R
- (B) ENCLOSED CIRCUIT BREAKER- "200/3/150" DENOTES AMPERES/POLE/TRIP.
- MOTOR STARTER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER. "30/3/15/80" DENOTES AMPERES/POLES/FUSE/ STARTER SIZE. "NF" DENOTES NON-FUSED. FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- VFD VARIABLE FREQUENCY DRIVE PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- EPO EMERGENCY POWER OFF BUTTON.

RECEPTACLES AND OUTLETS

ALL RECEPTACLES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS.

ABBREVIATIONS APPLICABLE TO RECEPTACLES:
- "GFCI" GROUND FAULT INTERRUPTER
- "WP" WEATHERPROOF
- "IG" ISOLATED GROUND
- "TR" TAMPER RESISTANT
- "USB" RECEPTACLE WITH USB CHARGING PORTS
- "AC" ABOVE COUNTER MOUNTING
- "UC" UNDER COUNTER MOUNTING
- "H" HORIZONTALLY ORIENTED RECEPTACLE

- SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.
- DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V. SHADED INDICATES SPLIT-WIRED
- FOURPLEX (QUADRUPLEX) RECEPTACLE
- DUPLEX RECEPTACLE (PEDESTAL MOUNTED)
- CONTROLLED WALL RECEPTACLE. DUPLEX: SPLIT-WIRED QUAD: SEPARATELY WIRED UNDER A COMMON COVERPLATE.
- POWER DEVICE RED IN COLOR, ON EMERGENCY POWER CIRCUIT
- CEILING RECEPTACLE/QUAD, EMERGENCY POWER SYMBOL MAY APPLY
- SPECIAL RECEPTACLE, NEMA CONFIGURATION PER PLAN OR EQUIPMENT
- TV TV ROUGH-IN: 3-GANG RECESSED TV BOX, CONTAINING 1 DUPLEX RECEPTACLE, 1 GANG FOR AV, 1 GANG FOR DATA
- FLOOR BOX OR POKE THRU. POKE-THRU'S WHERE IN SUSPENDED SLABS, RECESSED IN FOUNDATION WHERE SLAB ON GRADE
- FLUSH ELECTRICAL FLOOR OUTLET. REFER TO FLOOR BOX SCHEDULE, FIRE RATED POKE-THROUGH SCHEDULE AND KEYED NOTES.
- DC DROP CORD WITH SIMPLEX RECEPTACLE UNLESS OTHERWISE NOTED
- CR CORD REEL WITH DUPLEX RECEPTACLE UNLESS OTHERWISE NOTED
- J JUNCTION BOX
  - "MD" INDICATES POWER CONNECTION TO SERVE MOTOR DAMPER
  - "HD" INDICATES POWER CONNECTION TO SERVE HAND DRYER
  - "FV" INDICATES POWER CONNECTION TO SERVE FLUSH VALVES
- P PULL BOX (OVER 4" SQUARE)
- BELL/BUZZER/CHIME
- PUSH BUTTON/DOOR BELL/START-STOP
- PP POWER POLE
- POINT OF DIRECT CONNECTION TO EQUIPMENT
- C (2) CLOCK RECEPTACLE SHALL BE MOUNTED 12" BELOW FINISHED CEILING. (2) DENOTES DOUBLE SIDED CLOCK.

LIGHTING

LETTER(S) DENOTE TYPE- SEE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

2' X 4' 2' X 2' 1' X 4' 1' X 2' 1' X 1'

- STRIP LIGHTING FIXTURES.
- ROUND DOWNLIGHT FIXTURE.
- SQUARE DOWNLIGHT FIXTURE.
- WALL MOUNTED LIGHTING FIXTURE.
- TRACK LIGHTING FIXTURE. MOUNTED AS SHOWN ON LIGHTING FIXTURE SCHEDULE.
- CEILING MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- WALL MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- EMERGENCY WALL MOUNTED LIGHTING FIXTURE. BATTERY OPERATED UNLESS NOTED OTHERWISE.
- SITE LIGHTING FIXTURE.

HATCHING PATTERNS BELOW SHALL APPLY TO ALL LIGHTING FIXTURE SYMBOLS.

- NL EMERGENCY LIGHT FIXTURE WITH BATTERY PACK. PROVIDE WITH UNSWITCHED HOT FOR LOSS OF VOLTAGE AND CHARGING (SAME CIRCUIT AS NORMAL POWER LIGHTING). FIXTURES SHALL BE WIRED IN A MANNER AS TO ALLOW SWITCHING OF FIXTURES WITHOUT DISCHARGING THE EMERGENCY BATTERY. BATTERY PACK IS TO ONLY OPERATE IN THE EVENT OF A POWER OUTAGE.
  "NL" NIGHT LIGHT ON UNSWITCHED 24HR OPERATION
- EM CIRCUIT LIGHT FIXTURE ON LIFE SAFETY BRANCH CIRCUIT. GENERATOR TRANSFER DEVICES REQUIRED (UL1008 OR UL924) PROVIDE UNSWITCHED HOT, NEUTRAL AND GROUND FOR ALL LIFE SAFETY LIGHTING ORIGINATING FROM THE LIFE SAFETY CIRCUIT SHOWN.
- CRITICAL OPERATIONS LIGHTING ORIGINATING FROM THE CRITICAL CIRCUIT INDICATED. HATCHED AS INDICATED. HATCHING TYPICAL FOR ALL CRITICAL BRANCH LIGHT FIXTURES

RACEWAYS AND WIRING

- CAP AND STAKE
- CONDUIT CONCEALED IN WALL OR CEILING
- UNDERGROUND, UNDERSLAB, CONCEALED ROUTING
- OHE OVERHEAD ELECTRIC PRIMARY UTILITY POWER LINE
- CONDUIT UP/DOWN
- HASH MARKS INDICATE NUMBER OF CONDUCTORS. LEFT TO RIGHT: PHASE/NEUTRAL/GROUND/ISOLATED GROUND. NO HASH MARKS INDICATES EMPTY CONDUIT, 1" MINIMUM, UNLESS NOTED OTHERWISE.
- 1LA-2,4,6 HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED.
- (ON)1LA-6 PARTIAL/SHARED CIRCUIT HOMERUN TO PANEL.
- TELECOMMUNICATIONS CABLE TRAY SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.

ELECTRICAL EQUIPMENT

- DISTRIBUTION PANEL
- MSB SWITCHBOARD, MAIN DISTRIBUTION PANEL OR MOTOR CONTROL CENTER
- PANELBOARD (FLUSH/SURFACE MOUNT)
- FLOOR MOUNTED DRY-TYPE TRANSFORMER
- SUSPENDED OR WALL MOUNTED TRANSFORMER
- ATS AUTOMATIC TRANSFER SWITCH
- FIRE RATED PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4' X 8' X 3/4" UNLESS NOTED OTHERWISE

COMMUNICATIONS

DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 18" ABOVE FINISHED FLOOR (AFF)

- DATA/COMM/AV ROUGH-IN. CONDUIT TO PLENUM AND BOX ONLY
- HS DS SCHOOL INTERCOMMUNICATION SYSTEM HANDSET.

DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 42" AFF

- VC VOLUME CONTROL - WALL MOUNTED
- CB INTERCOM/PA SYSTEM CALL-IN OR CALL-BACK DEVICE

DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 120" AFF OR 12" BELOW CEILING, WHICHEVER IS LOWER

- S L INTERCOM/PA SPEAKER "L" LOCAL SOUND REINFORCEMENT

CEILING MOUNTED DEVICES:

- S VC INTERCOM/PA SPEAKER "VC" INDICATES VOLUME CONTROL ON SPEAKER.

REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

ONE-LINE DIAGRAM

- TRANSFORMER, TYPE AND RATINGS AS NOTED
- 800A/3P SWITCH, RATING AS SHOWN
- 400A FUSE, RATING AS SHOWN
- ST SHUNT TRIP
- GFP GROUND FAULT PROTECTION
- K KIRK-KEY INTERLOCK
- M DIGITAL METER OR SUB-METER INTEGRATED INTO EQUIPMENT
- 1200/5 CURRENT TRANSFORMER, RATED AS SHOWN
- GROUND CONNECTION
- AUTOMATIC TRANSFER SWITCH
- BUS DUCT PLUG
- M ELECTRICAL UTILITY REVENUE METER
- SPD SURGE PROTECTION DEVICE
- GANN GENERATOR ANNUNCIATOR PANEL
- CIRCUIT BREAKER
- DRAW-OUT CIRCUIT BREAKER
- NEW EQUIPMENT/WIRING
- DEMOLITION EQUIPMENT/WIRING
- EXISTING EQUIPMENT/WIRING
- UNDERGROUND WIRING

DAYLIGHT ZONES

DAYLIGHT ZONE/PRIMARY SECONDARY DAYLIGHT ZONE

DAYLIGHT ZONES SHALL BE INCLUSIVE OF THE FIXTURES WITHIN THE SHADED REGION, AND SHALL BE DIMMED USING ON-BOARD OR EXTERNAL CONTROL IN ACCORDANCE WITH IECC 2021. IECC 2018 OR 2015 MAY BE REFERENCED ONLY WHERE ADOPTED BY LOCAL AHJ.

GENERAL NOTES:

A. NOT ALL SYMBOLS SHOWN ON THIS SYMBOL LIST ARE USED IN THE CONTRACT DOCUMENTS.

MISCELLANEOUS

- F SHADED SYMBOLS INDICATE EXISTING DEVICES TO REMAIN, UNLESS OTHERWISE NOTED.
- INDICATES WALL-MOUNTED WHEN ATTACHED TO ANY SYMBOL
- 1 DRAWING NOTE REFERENCE
- SOS AREA OF RESCUE ASSISTANCE

FIRE ALARM

- W WATER FLOW SWITCH
- SP SUPERVISORY SWITCH
- S SMOKE DETECTOR - MULTI CRITERIA DETECTOR
- S # SMOKE DETECTOR - "SB" INDICATES IN INTEGRAL SOUNDER BASE "D" INDICATES DUCT TYPE "R" INDICATES 120 VOLT RESIDENTIAL TYPE
- H HEAT DETECTOR
- S BT BEAM DETECTOR TRANSMITTER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
- S BR BEAM DETECTOR RECEIVER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
- S FIRE ALARM SPEAKER STROBE / CEILING MOUNTED
- S FIRE ALARM SPEAKER / CEILING MOUNT.
- DH MAGNETIC DOOR HOLDER
- R AUXILIARY CONTROL RELAY
- FH FIRE FIGHTER HANDSET
- F FIRE ALARM PULL STATION +42" AFF
- F FIREMAN'S TELEPHONE JACK +42" AFF
- AUDIO VISUAL FIRE ALARM HORN STROBE +80" AFF- 15/75cd U.N.O.
- VISUAL FIRE ALARM (STROBE) CEILING MOUNT - 15/75cd U.N.O.
- AUDIO FIRE ALARM HORN +80" AFF
- FACP FIRE ALARM CONTROL PANEL
- ANN REMOTE FIRE ALARM ANNUNCIATOR PANEL
- RPS REMOTE POWER SUPPLY FOR AUDIO/VISUAL FIRE ALARM DEVICES.
- FSD FIRE SMOKE DAMPER
- REMOTE LED INDICATOR LIGHT

SECURITY

- PB ADA AUTO DOOR OPEN BUTTON
- DR DOOR RELEASE BUTTON
- CR WALL MOUNTED CARD READER

REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

SWITCHES AND LIGHTING CONTROL DEVICES

ALL SWITCH TYPES AND SENSORS TYPES FOUND ON 'LIGHTING CONTROL DEVICE SCHEDULE' LOCATED ON ELECTRICAL SCHEDULE SHEETS

SWITCH ANNOTATION AS FOLLOWS:
- X TYPE, PER SCHEDULE; NO TYPE INDICATES SINGLE POLE TOGGLE SWITCH
- $a,b,c SWITCH LEGS, PER PLAN, SHOWN HERE AS 3 (a,b,c)

OCCUPANCY SENSOR ANNOTATION, AS FOLLOWS:
- OCx OCCUPANCY / VACANCE SENSOR 'x' INDICATES TYPE, PER SCHEDULE
- CEILING SENSOR
- WITH BRACKET INDICATES WALL / CORNER MOUNT

LIGHT SENSOR ANNOTATION, AS FOLLOWS:
- PC DIGITAL PHOTOCELL
- DS DAYLIGHT HARVESTING SENSOR

RELAY PANELS, CONTACTORS, TIME SWITCHES:
- XX RELAYS/CONTACTORS/TIMERS/DEVICES WHERE 'XX' INDICATES:
  - "LC" LIGHTING CONTRACTOR
  - "LCP" LIGHTING CONTROL PANEL
  - "TS" TIME SWITCH
  - "TC" TIME CLOCK

DRAWING/DETAIL REFERENCE KEY

RE: 1 /E3-2 — REFER TO DRAWING/DETAIL NUMBER; SHEET NUMBER (1 / E3-2)

PANELBOARD NOMENCLATURE

5 DP C H A 1
- 1 SUB PANEL
- A AREA
- H VOLTAGE: H: 480Y/277V; L: 208Y/120V
- C BRANCH: NONE: NORMAL; E: LIFE SAFETY; O: EQUIPMENT; C: CRITICAL; R: LEGALLY REQUIRED; X: OPTIONAL STAND-BY
- DP DISTRIBUTION PANEL (IF APPLICABLE)
- 5 LEVEL

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ELECTRICAL SYMBOL LEGEND

E0.01

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GENERAL LIGHTING DEMOLITION NOTES:

A. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRESENT ON SITE PRIOR TO BIDDING, AND SHALL BE EXPECTED TO PERFORM DEMOLITION AND INSTALL NEW AS SHOWN ON THE DOCUMENTS, INCLUDING SCOPE THAT MAY NOT FEASIBLY BE INDICATED ON PLAN.

B. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING ELECTRICAL DEVICES ON EXISTING CEILING. ALL ABANDONED DEVICES IN CEILING WITHIN SCOPE OF WORK SHALL BE REMOVED.

C. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL TO ALL REMOVED MATERIALS. CONTRACTOR SHALL COORDINATE WITH OWNER FOR LOCATION TO RETURN ANY AND ALL MATERIAL FOR OWNER STORAGE. FAILURE TO TURN OVER REMOVED MATERIAL TO OWNER MAY REQUIRE CONTRACTOR TO REPLACE EQUIPMENT REMOVED WITH NEW.

D. REMOVE ALL ELECTRICAL DEVICES WITHIN DEMOLISHED WALLS INCLUDING SWITCHES AND FIRE ALARM DEVICES. REFER TO ARCHITECTURAL DEMO PLAN. THIS SCOPE MAY NOT BE DIRECTLY IMPLIED BY NOTES ON DEMO PLANS AS IT IS ASSUMED THIS SCOPE EXISTS BASED ON ARCHITECTURAL DEMOLITION PLANS.

E. CONTRACTOR SHALL REVIEW DEMO AND NEW WORK PLANS SIMULTANEOUSLY TO IDENTIFY SCOPE THAT IS TO BE MODIFIED FOR REUSE WITH NEW SCOPE.

F. ALL FIXTURES REMOVED AND REINSTALLED SHALL BE CLEANED, RELAMPED AS REQUIRED AND TOUCHED UP WITH PAINT. ALL DAMAGED PARTS MUST BE REPLACED. THE FIXTURES SHALL THEN BE REINSTALLED AS REQUIRED. PROVIDE NEW DRIVERS AS REQUIRED.ALL EXISTING SWITCHING ZONES SHALL REMAIN UNCHANGED UNLESS DIRECTED OTHER ON PLANS.

G. ALL LIGHTING CIRCUITS SHALL BE DEMOLISHED AS REQUIRED BY THE DEMOLITION SCOPE ON THE DOCUMENTS. REPAIR ANY CIRCUITS THAT ARE PARTIALLY DEMOLISHED AND CONTAIN OUTLETS THAT ARE 'NOT IN SCOPE' OR OUTSIDE OF THE LIMITS OF CONSTRUCTION TO WORKING CONDITION. PROVIDE ADDITIONAL CONDUIT, WIRE AND BOXES AS NEEDED.

H. MODIFIED LIGHTING CIRCUITS SHALL NOT EXCEED 50% CIRCUIT LOAD BASED ON CIRCUIT AMPACITY.

I. ALL EXISTING INTERCOM/SPEAKERS SHALL BE REMOVED AND REINSTALLED AS REQUIRED TO FACILITATE RENOVATION. SUBJECT TO EXISTING EQUIPMENT OPERATION CONDITION VERIFICATION.

J. WHERE CEILING REPLACEMENTE IS REQUIRED, ALL EXISTING CEILING DEVICES SHALL BE UNINSTALLED AND REINSTALLED AS REQUIRED, INCLUDING PUBLIC ADDRESS DEVICES, FIRE ALARM DEVICES, LIGHTING CONTROL DEVICES, ETC. REFER TO ARCHITECTURAL PLANS FOR CEILING REPLACEMENT LOCATIONS.

GENERAL ELECTRICAL NOTES:

A. ELECTRICAL DEVICE LOCATIONS SHOWN ARE NOT EXACT. ALL DEVICE LOCATIONS SHALL BE VERIFIED WITH ARCHITECTURAL MILLWORK, CASEWORK, AND GENERAL ELEVATION VIEWS.

B. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES FOR ALL TECHNOLOGY, LOW VOLTAGE, ACCESS CONTROL SECURITY, SURVEILLANCE, AND OTHER DIVISION 27/28 SCOPE. REFER TO DIVISION 27/28 DRAWINGS AND SPECIFICATIONS FOR ALL WORK REQUIRED. OMISSION OF THIS SCOPE FROM DIV 26 SCOPE OF WORK IS PROHIBITED.

C. HVAC AND PLUMBING EQUIPMENT LOCATIONS ARE NOT EXACT, AND THE EXACT POINT OF CONNECTION TO EQUIPMENT MAY VARY. COORDINATE EXACT ROUGH-IN REQUIREMENTS IN FIELD AND WITH FINAL SUBMITTALS.

D. PROVIDE LABELING OF ALL DEVICES, CONDUIT, PANELS, AND JUNCTION BOXES WITH TYPE-WRITTEN LABEL IDENTIFYING CIRCUIT ON THE BACK OF DEVICE COVER PLATES AND ON COVER OF JUNCTION BOXES IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

E. ROOF PENETRATIONS SHALL BE MINIMIZED. WHERE ABLE, ROUTE ALL CONDUIT FOR ROOF MOUNTED EQUIPMENT THROUGH ROOF CURB. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING NECESSARY WATER PROOFING AROUND ROOF PENETRATIONS WITH ROOFING INSTALLER.

F. ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL ROOMS, ELEVATOR PITS OR SHAFTS, ELEVATOR EQUIPMENT ROOMS, SERVING ELECTRIC DRINKING FOUNTAINS OR VENDING MACHINES, LOCATED WITHIN 6' OF A SINK, LOCATED ABOVE A WET COUNTERTOP OR IN A KITCHEN OR COFFEE BAR SHALL BE GFCI. FEED-THRU GFCI/GFI IS PROHIBITED, ALL GFCI/GFI DEVICES SHALL BE PROVIDED WITH INDIVIDUAL TEST/RESET FEATURES. ALL GFCI RECEPTACLES SHALL BE ACCESSIBLE. PROVIDE SEPARATE RECEPTACLE PROTECTED BY "FACELESS GFCI." REQUIRED TO COMPLY WITH CURRENTLY ADOPTED NEC.

G. MULTI-WIRE HOME RUNS SHALL NOT BE ALLOWED. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. SHARING CONDUIT IS PERMISSIBLE WHERE TOTAL CONDUCTOR AMPACITY DERATING HAS BEEN PERFORMED BY ELECTRICAL CONTRACTOR. THE NEUTRAL IS CONSIDERED CURRENT-CARRYING. ROUTE A MAXIMUM OF THE 3 BRANCH CIRCUITS IN A SINGLE 3/4" RACEWAY. EACH NEUTRAL SHALL BE LABELED TO INDICATE THE CIRCUIT NUMBER CORRESPONDING TO THE HOT CONDUCTOR. THIS LABEL SHALL INCLUDE THE PANELBOARD, JUNCTION BOXES AND OUTLET BOXES.

H. ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE EXCEPT IN MDF/IDF CLOSETS.

I. CONTRACTOR SHALL PROVIDE PLENUM RATED MATERIAL FOR ALL INFRASTRUCTURE LOCATED IN PLENUMS NOT PROTECTED BY CONDUIT OR ANOTHER APPROVED/LISTED FIRE ENCLOSURE.

J. NEW ELECTRICAL EQUIPMENT LOCATED IN ELECTRICAL ROOMS SHALL BE ARRANGED TO COMPLY WITH LATEST NEC ARTICLE 110.

K. ELECTRICAL AND TECHNOLOGY OUTLETS SHOWN IN SOUND RATED PARTITIONS SHALL NOT BE PLACED BACK-TO-BACK. OFFSET AT LEAST ONE STUD AND SEAL FOR SOUND AS REQUIRED.

L. ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. CONTRACTOR PAY PROVIDE NON-TAMPER RESISTANT RECEPTACLES WHERE NOT REQUIRED PER CURRENT NEC ARTICLE 406.

M. ALL VFDS, MOTOR STARTERS, OR DISCONNECT SWITCHES SHALL BE SUPPLIED BY DIVISION 23 AND INSTALLED BY DIVISION 26 UNLESS NOTED OTHERWISE. ELECTRICAL CONNECTIONS SHALL BE PROVIDED BY DIVISION 26. DIVISION 26 SHALL COORDINATE WITH DIVISION 23 PRIOR TO ROUGH-IN.

N. PROVIDE LABELING OF ALL DEVICES, CONDUIT, PANELS, AND JUNCTION BOXES IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

O. PROVIDE TIME DELAY RELAY FOR EACH FAN COIL UNIT (FCU) AND AIR COOLED CONDENSING UNIT (ACCU) TO ALLOW THEM TO START UP IN 30 SECOND INTERVALS IN THE EVENT OF A POWER LOSS.

P. FEED-THRU GFCI/GFI IS PROHIBITED, ALL GFCI/GFI DEVICES SHALL BE PROVIDED WITH INDIVIDUAL TEST/RESET FEATURES.

Q. LABEL ALL CIRCUITS AT ALL JUNCTION BOXES AND OUTLETS (AS DEFINED BY NEC) WITH TYPE-WRITTEN LABEL IDENTIFYING CIRCUIT ON THE BACK OF DEVICE COVER PLATES OR ON COVER OF JUNCTION BOX. IF A BOX HAS MULTIPLE CIRCUITS WITHIN, LABEL ALL CIRCUITS.

R. DRAWINGS ARE DIAGRAMMATIC AND NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL OR THEIR EXACT LOCATION. THE CONTRACTOR SHALL COORDINATE WITH THE VARIOUS TRADES TO AVOID INTERFERENCE BETWEEN DEVICES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE A COMPLETE WORKING SYSTEM WHICH WILL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, AND AHJ.

S. BRANCH CIRCUITS SHALL NOT BE ROUTED UNDER SLAB EXCEPT AS SHOWN. FEEDERS SERVING SWITCHGEAR, DISTRIBUTION PANELS, LIGHTING CLASS PANELBOARDS AND MECHANICAL EQUIPMENT MAY BE INSTALLED UNDER SLAB. FEEDER TO BE ROUTED UNDER SLAB ARE SHOWN AS DASHED LINES, AND OVERHEAD FEEDERS ARE SHOWN AS SOLID, CONTINUOUS LINES. REFER TO FLOOR PLANS AND ELECTRICAL SYMBOLS LEGEND.

T. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL EXHAUST FAN CONTROLS. PROVIDE A FAN SWITCH IF INDICATED BY MECHANICAL.

U. ALL ELECTRICAL CONDUITS SHALL RUN PERPENDICULAR OR PARALLEL TOTHE WALLS, BEAMS, ETC. AND SHALL BE COORDINATED WITH ARHITECT PRIOR TO ROUTING. ALL CONDUITS SHALL BE PAINTED AS DIRECTED BY ARCHITECT.

V. ALL RECEPTACLES DENOTED AS WEATHERPROOF RECEPTACLES SHALL BE WEATHERPROOF WHILE IN USE RECEPTACLES WITH AN OUTLET BOX HOOD LISTED AS "EXTRA DUTY" PER NEC 2023 406.9(B)(1).

W. CONTRACTOR SHALL INSTALL EQUIPMENT GROUNDING CONDUCTOR IN ALL RACEWAYS. INSTALL GROUNDING BUSHINGS WHERE CONCENTRIC OR ECCENTRIC KNOCKOUTS OR REDUCING BUSHINGS ARE USED. BOND ALL BOXES TO EQUIPMENT GROUNDING CONDUCTOR.

X. NO MORE THAN SIX PHASE CONDUCTORS SHALL BE INSTALLED IN A SINGLERACEWAY. ANY COMBINATION OF PHASE CONDUCTORS AND GROUNDED (NEUTRAL)CONDUCTORS AND EQUIPMENT GROUND CONDUCTORS IN ANY RACEWAY SHALL NOT EXCEED SEVEN.

Y. ALL CONDUCTORS SHALL BE COPPER; ALUMINUM IS NOT ACCEPTABLE.

Z. PROVIDE CONCRETE HOUSEKEEPING PAD FOR ALL PAD-MOUNTED TRANSFORMERS AND PAD-MOUNTED SWITCHGEAR.

AA. ELECTRICAL DEVICES SHOWN ARE NOT EXACT. ALL DEVICE LOCATIONS AND MOUNTING HEIGHTS SHALL BE VERIFIED WITH ARCHITECT AND ARCHITECTURAL MILLWORK, CASEWORK, AND GENERAL ELEVATION VIEWS.

BB. PROVIDE POWER FOR ALL FIRE AND SMOKE DAMPERS, BLAST DAMPERS, AND MOTORIZED DAMPERS IN BUILDING. REFER TO MECHANICAL DRAWINGS FOR PROPOSED LOCATIONS. COORDINATE EXACT LOCATIONS AND QUANTITIES WITH DIVISION 23.

GENERAL POWER DEMOLITION NOTES:

A. EXISTING CIRCUIT BREAKERS VACATED DUE TO REMODELING WORK SHALL REMAIN AS SPARE BREAKERS AND LEFT IN THE 'OFF' POSITION.

B. WHERE INDICATED OR REQUIRED BY OTHER TRADES, CONTRACTOR SHALL REMOVE ALL ELECTRICAL CONNECTIONS TO EXISTING PREWIRED FURNITURE. REMOVE CONDUIT AND WIRING BACK TO LAST ACTIVE JUNCTION. ALL DATA CABLING SHALL BE REMOVED.

C. CONTRACTOR SHALL REPORT ANY DAMAGED DEVICES THAT ARE SHOWN AS EXISTING TO REMAIN. ALL DEVICES FOUND TO BE DAMAGED AT THE TIME OF SUBSTANTIAL COMPLETION THAT NOT REPORTED PRIOR TO STARTING WORK SHALL BE REPLACED AT THE CONTRACTOR'S COST.

D. DEMOLISHED POKE-THRUS SHALL BE DISCONNECTED FROM EXISTING BRANCH CIRCUIT, DATA AND/OR AV CONDUCTORS. CAP WITH A UL LISTED FIRE RATED POKE-THRU COVER.

E. EXISTING RECEPTACLE OR MECHANICAL CIRCUITS MODIFIED IN FIELD SHALL NOT EXCEED 80% CAPACITY BASED ON AMP-RATING OF CIRCUIT.

LIGHTING GENERAL NOTES:

A. ALL LIGHTING CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH PERFORMANCE DESCRIPTION INDICATED IN THE LIGHTING CONTROL DEVICE SCHEDULE FOUND ON SCHEDULE SHEETS.

B. MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED UNDER A COMMON COVER PLATE.

C. PROVIDE LABELING OF ALL CONTROL DEVICES, SWITCH PACKS, LIGHT FIXTURES, JUNCTION BOXES, ETC IN ACCORDANCE WITH SPECIFICATIONS.

D. LIGHTING FIXTURE LOCATIONS SHOWN TAKE PRECEDENCE IN CEILING LOCATION TO ALL OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING OTHER TRADES DO NOT IMPACT SPACING AND/OR OVERLAYMENT OF OTHER DEVICES WHERE LIGHT FIXTURES ARE INSTALLED.

E. REFERENCE SYMBOLS LEGEND FOR LIGHT SWITCH AND LIGHTING CONTROL DEVICE NOMENCLATURE AND SWITCH-LEG ANNOTATION OR LABELING.

F. ALL 2X2, 2X4 FIXTURES INSTALLED IN SUSPENDED GRID CEILING SHALL BE PROVIDED WITH (4) SECONDARY SUPPORT WIRES ANCHORED DIRECTLY TO STRUCTURE.

G. ALL ELECTRICAL CONDUITS SHALL RUN PERPENDICULAR OR PARALLEL TO THE WALLS, BEAMS, ETC. AND SHALL BE COORDINATED WITH ARHITECT PRIOR TO ROUTING. ALL CONDUITS SHALL BE PAINTED AS DIRECTED BY ARCHITECT.

H. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES.

I. ALL LIGHT FIXTURES/LENS SHALL BE CLEAN OF DUST/DIRT/DEBRIS AT THE TIME OF SUBSTANTIAL COMPLETION.

J. ROUTE A HOT LEG, SWITCHED LEG, AND A GROUND FOR ALL LINE VOLTAGE SWITCHES.

K. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATIONS WITH DUCTWORK AND PIPING IN MECHANICAL ROOMS.

L. ALL 2X2, 2X4 FIXTURES INSTALLED IN SUSPENDED GRID CEILING SHALL BE PROVIDED WITH (2) SECONDARY SUPPORT WIRES ANCHORED DIRECTLY TO STRUCTURE.

M. ALL NEW DEVICES LOCATED ON EXISTING CONCRETE OR BLOCK WALLS/CEILINGS SHALL HAVE SURFACE MOUNTED CONDUIT. PAINT CONDUIT TO MATCH COLOR OF WALL. COORDINATE WITH ARCHITECT. WHERE DEVICES ARE LOCATED IN SAME LOCATION AS EXISTING DEVICES, REUSE BACK BOXES AND EXISTING CONCEALED CONDUIT WHERE ABLE.

N. WHERE CEILING REPLACEMENT IS REQUIRED, ALL EXISTING CEILING DEVICES SHALL BE UNINSTALLED AND REINSTALLED AS REQUIRED, INCLUDING PUBLIC ADDRESS DEVICES, FIRE ALARM DEVICES, LIGHTING CONTROL DEVICES, ETC. REFER TO ARCHITECTURAL PLANS FOR CEILING REPLACEMENT LOCATIONS.

EMER. LIGHTING GENERAL NOTES:

A. PROVIDE ALL EMERGENCY LIGHT FIXTURES WITH UNSWITCHED HOT LEG AS INDICATED IN NEC 700.12 AND PROVIDE LOCK-ON DEVICE AS REQUIRED BY NEC 700.

B. ROUTE AN UNSWITCHED HOT LEG TO ALL LIGHT FIXTURES DESIGNATED AS EMERGENCY FIXTURES. HOT LEG SHALL ORIGINATE FROM CIRCUIT SERVING NORMAL LIGHTING FIXTURES IN THAT SPACE. UNSWITCHED HOT LEG SHALL CONNECT TO THE NORMAL POWER SENSING LUG ON THE EMERGENCY BATTERY PACK.

C. PROVIDE UN-SWITCHED CIRCUIT TO ALL EXIT SIGNS. CONNECT TO DEDICATED CIRCUIT INDICATED AND PROVIDE LOCK-ON DEVICE AS REQUIRED BY NEC 700.

FIRE ALARM REMODELING NOTES:

A. CONTRACTORS ARE RESPONSIBLE FOR VISITING THE SITE AND VERIFYING THE EXISTING FIRE ALARM SYSTEM AND SCOPE OF WORKED REQUIRED PER PLANS AND SPECIFICATIONS, PRIOR TO BIDDING. VERIFY EXISTING SITE CONDITIONS, MAKE AND MODEL OF CURRENT FIRE ALARM SYSTEM, NECESSITY OF ANY FRONT-END UPGRADES, CODE COMPLIANCE OF EXISTING DEVICES LOCATED WITHIN THE SCOPE OF WORK AREA, TO BE KNOWN BY FIRE ALARM CONTRACTOR UPON DESIGN OF FIRE ALARM SHOP DRAWINGS.

B. THE INTENT OF THIS PLAN IS TO INCORPORATE NEW AND RELOCATED DEVICES WITH THE EXISTING BUILDING FIRE ALARM SYSTEM.

C. ALL NOTIFICATION DEVICES SHALL BE ACTIVATED AS REQUIRED BY APPLICABLE CODE WHEN FIRE ALARM SYSTEM IS INITIATED.

D. IT IS ASSUMED WITH THIS REMODEL THAT THE EXISTING SYSTEM MEETS REQUIRED CODES FOR THE ORIGINAL DATE OF INSTALLATION, AND BUILDING MANAGEMENT HAS MAINTAINED SYSTEM IN COMPLIANCE WITH LIFE SAFETY 101. FOR SEQUENCE OF OPERATIONS AND SPECIFICATIONS, REFER TO ORIGINAL SYSTEM DOCUMENT. COORDINATE WITH BUILDING MANAGEMENT.

E. THE EQUIPMENT SUPPLIER AND INSTALLING CONTRACTOR SHALL BE LICENSED BY THE STATE FIRE MARSHALL TO SELL, INSTALL, AND SERVICE FIRE ALARM SYSTEMS AS REQUIRED BY LOCAL CODES AND INSURANCE CODE.

F. ALL NEW EQUIPMENT REQUIRED FOR THIS REMODEL SHALL BE COMPATIBLE WITH THE EXISTING BUILDING SYSTEM AND IS TO BE A PART OF THE SUBMITTAL PROCESS AS NOTED IN THE ELECTRICAL SPECIFICATIONS FOR THIS PROJECT. PROVIDE ADDITION SYSTEM POWER BOOSTER WHERE REQUIRED.

G. VERIFY QUANTITIES OF NEW DEVICES TO INTERFACE WITH THE EXISTING BUILDING SYSTEM. THE CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGEMENT AND SHALL NOTIFY THE ENGINEER IF ANY CONFLICT EXISTS PREVENTING MODIFICATIONS REQUIRED IN THESE PLANS.

H. THE SYSTEM WHEN MODIFIED, SHALL BE A COMPLETE AND WORKING SYSTEM, AND COMPLY WITH THE MOST RECENT RULES, REGULATIONS, AND ORDINANCES THAT PRESENTLY APPLY TO THIS REMODEL.

I. ANY DEVICE THAT SUFFERS MALFUNCTION DURING RENOVATION SHALL BE REPLACED AT NO COST TO OWNER. CONTRACTOR SHALL TAKE PROPER STEPS TO ENSURE DUST AND DEBRIS DOES NOT NEGATIVELY INTERFERE WITH OPERATION OF ANY EXISTING EQUIPMENT LEFT OPERATIONAL DURING RENOVATION.

FIRE ALARM GENERAL NOTES:

A. CONTRACTOR SHALL SUBMIT LICENSED SEALED FIRE ALARM DRAWINGS TO THE AHJ/PERMIT OFFICE FOR PLAN REVIEW BY MEANS OF DEFERRED SUBMITTAL.

B. ALL CEILING MOUNTED DEVICES SHALL BE CENTERED IN THE CEILING TILE.

C. ALL FIRE ALARM VISUAL AND AUDIO/VISUAL DEVICES SHALL BE CONFIGURED TO PROVIDE CANDELA RATINGS IN ACCORDANCE WITH ADA & NFPA COVERAGES.

D. CONTRACTOR SHALL PROVIDE 120V DEDICATED 20A BRANCH CIRCUIT WITH LOCK-ON BREAKER PROVISIONS TO EACH SPEAKER AMPLIFIER AND VISUAL DEVICE POWER SUPPLIES AS REQUIRED BY FIRE ALARM SHOP DRAWINGS. CONNECT TO EMERGENCY POWER WHEN AVAILABLE.

E. ALL WIRING FOR DEVICES IN EXPOSED STRUCTURE AREAS SHALL BE ROUTED WITHIN CONDUIT. EXPOSED ROUTING SHALL BE AVOIDED. EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.

F. CONTRACTOR SHALL PROVIDE CONDUIT PATHWAYS FOR FIRE ALARM PLENUM CONDUCTORS WHERE ROUTED ABOVE HARD CEILING AREAS. CONDUIT RACEWAYS SHALL ALLOW ACCESS TO CONDUIT AT EACH END IN ACCESSIBLE LOCATIONS ABOVE CEILINGS.

G. LOCATE NEW SMOKE DETECTORS IN THE PATH OF EGRESS , ELECTRICAL, MECHANICAL, IDF ROOMS, STORAGE ROOMS AND OTHER LOCATIONS IN CHILDREN AREAS.

H. DUCT MOUNTED SMOKE DETECTORS SERVING HVAC UNITS WITH 2000 CFM OR GREATER SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION IN RETURN AIR DUCT INSIDE THE BUILDING THE UNIT SERVES. IT IS NOT ACCEPTABLE TO INSTALL DUCT MOUNTED SMOKE DETECTORS AT THE HVAC UNIT ON THE ROOF OR EXTERIOR OF THE BUILDING.

I. LOCATE HEAT DETECTORS IN BREAKROOM AREAS.

J. PROVIDE NEW AUDIO & VISUAL DEVICES PER APPLICABLE CODE.

K. FIRE ALARM SYSTEM SHALL BE PROVIDED PER PERFORMANCE SPEC. CONTRACTOR SHALL REFERENCE SPEC SECTION NUMBER 284600 FOR FIRE ALARM SYSTEM.

GENERAL ELECTRICAL DEMOLITION NOTES:

A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED THE EXISTING JOB SITE CONDITIONS DURING THE BIDDING PERIOD TO OBTAIN THE SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF THE ARCHITECTURAL MODIFICATIONS TO THE EXISTING CONDITIONS. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND OUTLETS, CONSISTING OF FIXTURES, DEVICES, EQUIPMENT OR APPARATUS, WHICH MUST BE REROUTED, RELOCATED OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED SO THAT THE REMODELING WORK MAY BE ACCOMPLISHED. NOT ALL EXISTING OUTLETS ARE NECESSARILY INDICATED ON THE DRAWINGS.

B. CONTRACTOR SHALL REVIEW DEMOLITION AND NEW WORK PLANS SIMULTANEOUSLY TO IDENTIFY SCOPE THAT IS TO BE MODIFIED FOR REUSE WITH NEW SCOPE.

C. CONTRACTOR SHALL VERIFY AND DOCUMENT EXISTING CONDITIONS OF ALL OUTLETS THAT ARE INDICATED OR REQUIRED TO BE REMOVED AND REINSTALLED TO FACILITATE THE WORK REQUIRED BY ALL TRADES. THE CONTRACTOR SHALL REPLACE NON-OPERABLE DEVICES AT NO ADDITIONAL COST TO THE OWNER. DOCUMENT OUTLETS IN NON-WORKING CONDITION PRIOR TO REMOVAL AND NOTIFY THE OWNER.

D. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL TO ALL REMOVED MATERIALS. CONTRACTOR SHALL COORDINATE WITH OWNER FOR LOCATION TO RETURN ANY AND ALL MATERIAL FOR OWNER STORAGE. FAILURE TO TURN OVER REMOVED MATERIAL TO OWNER MAY REQUIRE CONTRACTOR TO REPLACE EQUIPMENT REMOVED WITH NEW.

E. REMOVE ALL ELECTRICAL DEVICES WITHIN DEMOLISHED WALLS INCLUDING RECEPTACLES, DATA/TELEPHONE DROPS, P/A DEVICES, CONDUIT, AND WIRING. ALL EXISTING DEVICES MAY NOT BE DOCUMENTED ON PLANS. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR DEMOLISHED WALLS. REMOVE CONDUIT AND WIRING BACK TO PANEL OR LAST ACTIVE JUNCTION BOX.

F. ALL ABANDONED CONDUIT AND BOXES FOUND IN CRAWLSPACES, CEILINGS SPACES, CHASES, OR UTILITY SPACES SHALL BE REMOVED. EXISTING UNDERGROUND CONDUIT MAY BE ABANDONED. CAP ABANDONED UNDERGROUND CONDUIT FLUSH WITH GRADE.

G. OWNER SHALL RESERVE THE RIGHT TO CLAIM ALL EQUIPMENT AND CABLING REMOVED DURING DEMOLITION.

H. RE-ESTABLISH SERVICE TO ALL OUTLETS THAT MAY BE INTERRUPTED DUE TO REMODELING WORK.

I. PROVIDE ALL APPURTENANCES REQUIRED TO REROUTE, RELOCATE, REMOVE OR REINSTALL ALL ITEMS REQUIRED BY SCOPE OF REMODEL.

J. ALL ABANDONED MATERIAL SHALL BE REMOVED FROM JOBSITE PRIOR TO PROJECT COMPLETION.

K. IDENTIFICATION AND LABELING SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATIONS.

L. CIRCUIT NUMBERS ARE FOR PLAN REFERENCE ONLY. CONTRACTOR SHALL RELABEL ALL CIRCUIT DIRECTORIES WITH LOAD NAMES FOR ALL EXISTING AND NEW PANELS THAT WERE MODIFIED WITHIN THIS PROJECT.

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ELECTRICAL GENERAL NOTES

E0.11

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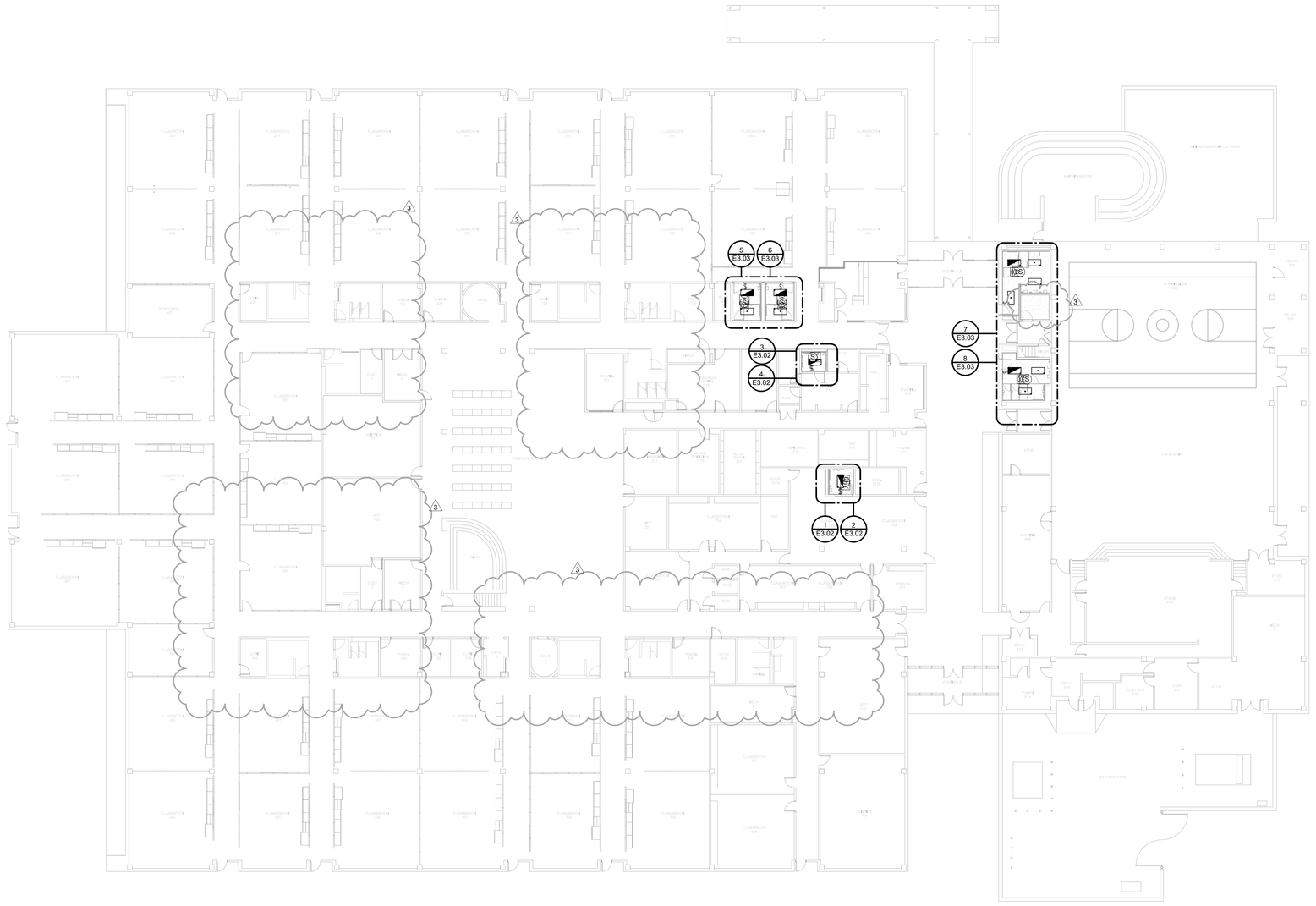

1 LEVEL 01 - COMPOSITE DEMOLITION ELECTRICAL LIGHTING PLAN

1/16" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

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LEVEL 01 - COMPOSITE ELECTRICAL LIGHTING PLAN - DEMO AND NEW

E1.11

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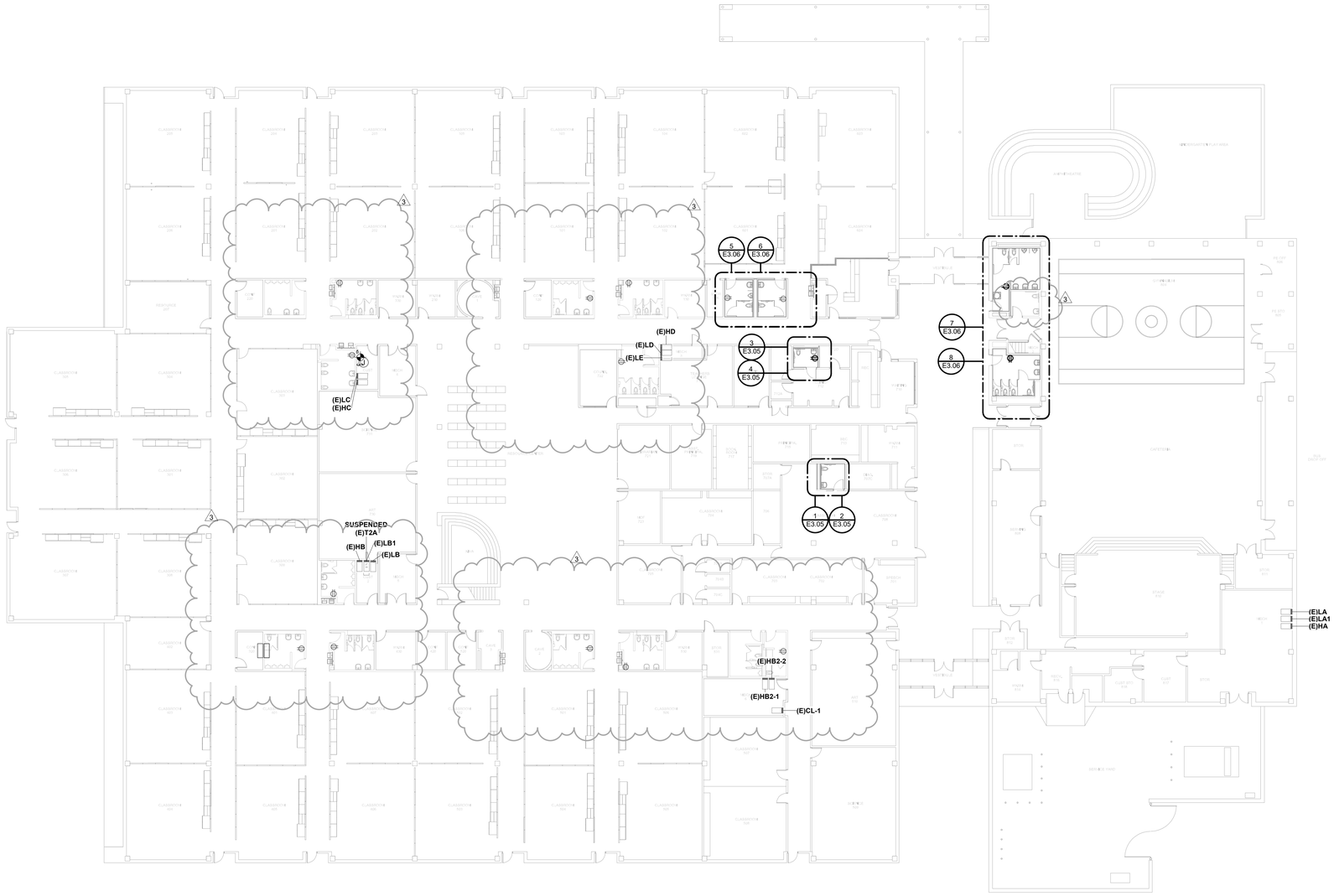

1 LEVEL 01 - COMPOSITE DEMOLITION ELECTRICAL POWER PLAN

1/16" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

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LEVEL 01 - COMPOSITE ELECTRICAL POWER PLAN - DEMO AND NEW

E2.11

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GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

☐ ELECTRICAL KEYED NOTES

☐ FIRE ALARM KEYED NOTES

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LEVEL 01 - ELECTRICAL PLANS - ENLARGED

E3.01

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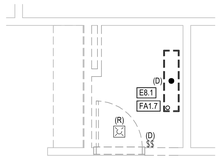
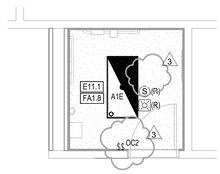
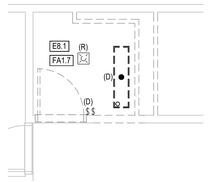


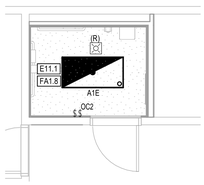
1 LEVEL 01 - DEMOLITION ELECTRICAL LIGHTING PLAN - CLASSROOM 707 RESTROOM
1/4" = 1'-0"



2 LEVEL 01 - ELECTRICAL LIGHTING PLAN - CLASSROOM 707 RESTROOM
1/4" = 1'-0"



3 LEVEL 01 - DEMOLITION ELECTRICAL LIGHTING PLAN - CLINIC RESTROOM
1/4" = 1'-0"



4 LEVEL 01 - ELECTRICAL LIGHTING PLAN - CLINIC RESTROOM
1/4" = 1'-0"

3

3

3

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

E8.1 EXISTING LIGHTING AND LIGHTING CONTROLS IN SPACE SHALL BE REMOVED. EXISTING LIGHTING CIRCUIT SHALL REMAIN AND BE REUSED. REFERENCE NEW PLANS FOR NEW LIGHTING LAYOUTS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

E11.1 PROVIDE NEW LED LIGHTING AND NEW LIGHTING CONTROLS IN THIS SPACE AS SHOWN ON PLANS. RECONNECT TO EXISTING LIGHTING CIRCUIT AND TO NEW CONTROLS. EXTEND CONDUIT/CONDUCTORS AS REQUIRED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

FIRE ALARM KEYED NOTES

FA1.7 ALL EXISTING CEILING MOUNTED FIRE ALARM DEVICES AND PUBLIC ANNOUNCEMENT 'PA' SPEAKER(S) SHALL BE REMOVED AND RELOCATED. REFER TO NEW PLANS FOR NEW LAYOUTS.

FA1.8 PROVIDE RELOCATED CEILING MOUNTED FIRE ALARM DEVICES AND PUBLIC ANNOUNCEMENT 'PA' SPEAKER(S) DEVICES AS SHOWN ON PLANS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

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LEVEL 01 - ELECTRICAL PLANS - ENLARGED

E3.02

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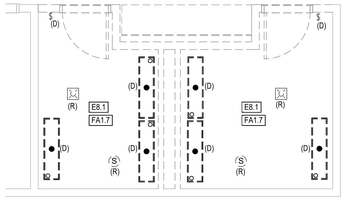
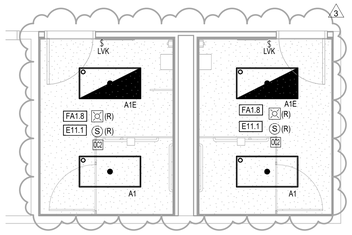
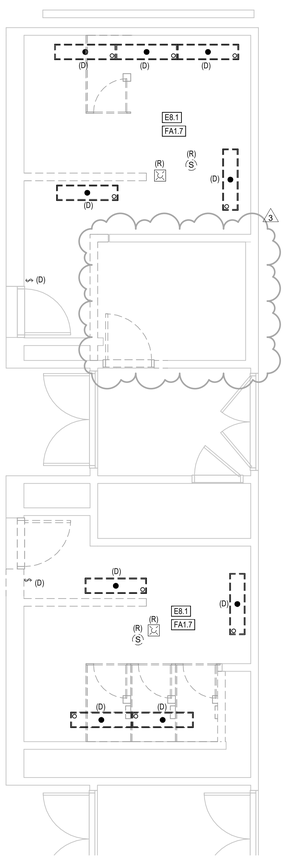


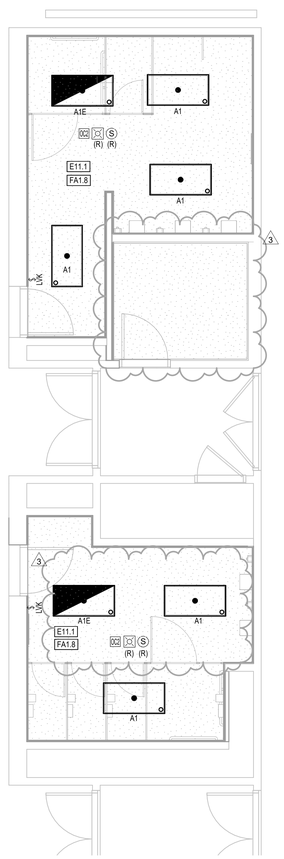
5 **LEVEL 01 - DEMOLITION ELECTRICAL LIGHTING PLAN - 600 BOYS AND GIRLS RESTROOMS**
1/4" = 1'-0"



6 **LEVEL 01 - ELECTRICAL LIGHTING PLAN - 600 BOYS AND GIRLS RESTROOMS**
1/4" = 1'-0"



7 **LEVEL 01 - DEMOLITION ELECTRICAL LIGHTING PLAN - GYM RESTROOMS**
1/4" = 1'-0"



8 **LEVEL 01 - ELECTRICAL LIGHTING PLAN - GYM RESTROOMS**
1/4" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

E8.1 EXISTING LIGHTING AND LIGHTING CONTROLS IN SPACE SHALL BE REMOVED. EXISTING LIGHTING CIRCUIT SHALL REMAIN AND BE REUSED. REFERENCE NEW PLANS FOR NEW LIGHTING LAYOUTS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

E11.1 PROVIDE NEW LED LIGHTING AND NEW LIGHTING CONTROLS IN THIS SPACE AS SHOWN ON PLANS. RECONNECT TO EXISTING LIGHTING CIRCUIT AND TO NEW CONTROLS. EXTEND CONDUIT/CONDUCTORS AS REQUIRED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

FIRE ALARM KEYED NOTES

FA1.7 ALL EXISTING CEILING MOUNTED FIRE ALARM DEVICES AND PUBLIC ANNOUNCEMENT 'PA' SPEAKER(S) SHALL BE REMOVED AND RELOCATED. REFER TO NEW PLANS FOR NEW LAYOUTS.

FA1.8 PROVIDE RELOCATED CEILING MOUNTED FIRE ALARM DEVICES AND PUBLIC ANNOUNCEMENT 'PA' SPEAKER(S) DEVICES AS SHOWN ON PLANS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

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LEVEL 01 - ELECTRICAL PLANS - ENLARGED

E3.03

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3

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

3

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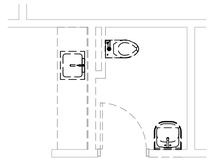
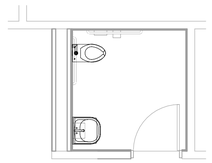
LEVEL 01 - ELECTRICAL PLANS - ENLARGED

E3.04



1 LEVEL 01 - DEMOLITION ELECTRICAL POWER PLAN - CLASSROOM 707 RESTROOM
1/4" = 1'-0"



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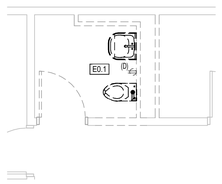
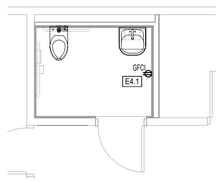
1/4" = 1'-0"



3 LEVEL 01 - DEMOLITION ELECTRICAL POWER PLAN - CLINIC RESTROOM
1/4" = 1'-0"



4 LEVEL 01 - ELECTRICAL POWER PLAN - CLINIC RESTROOM
1/4" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

E0.1 DEMOLITION SCOPE OF WORK INCLUDES ALL AREAS WITH DEMOLISHED WALLS AND PARTIALLY DEMOLISHED WALLS. REMOVE CONDUCTORS AND CONDUIT BACK TO PANEL. ANY UNDER SLAB CONDUIT MAY BE ABANDONED IN PLACE. FOR ALL DEVICES REMOVED FROM WALLS THAT ARE EXISTING TO REMAIN, CONTRACTOR SHALL PATCH WALLS TO MATCH EXISTING CONDITIONS. COORDINATE WITH ARCHITECT. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

E4.1 CONNECT NEW RECEPTACLE TO EXISTING CIRCUIT SERVING THIS SPACE PRIOR TO DEMOLITION. CONTRACTOR SHALL NOT EXCEED 80% BREAKER RATING PER NEC.

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E3.05

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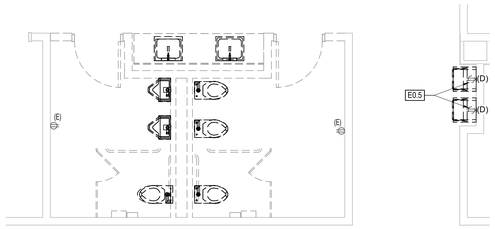
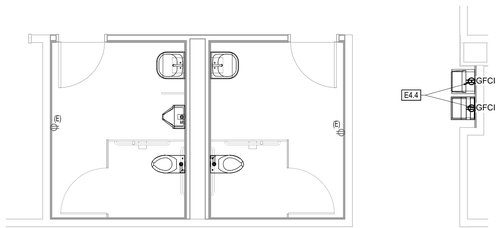


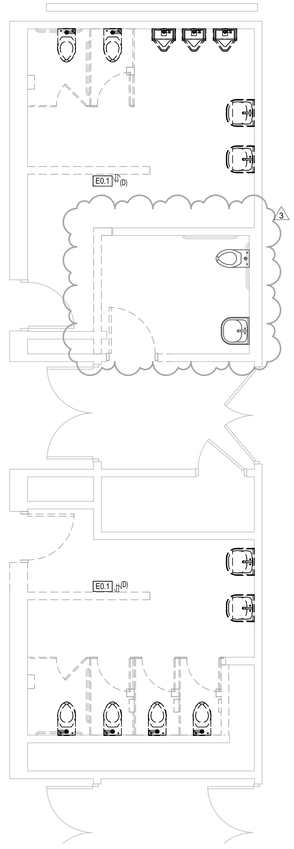
5 LEVEL 01 - DEMOLITION ELECTRICAL POWER PLAN - 600 BOYS AND GIRLS RESTROOMS

1/4" = 1'-0"



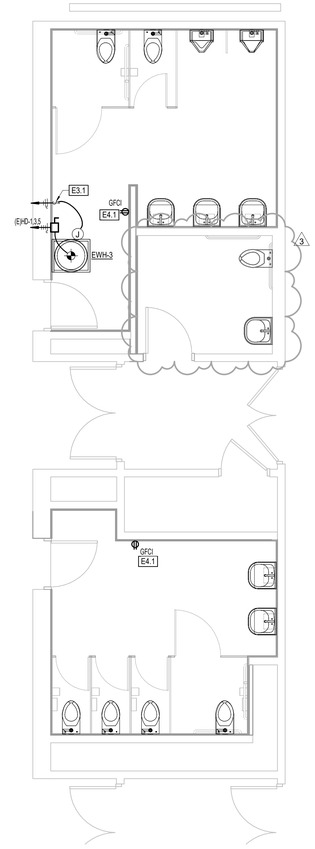
6 LEVEL 01 - ELECTRICAL POWER PLAN - 600 BOYS AND GIRLS RESTROOMS

1/4" = 1'-0"



7 LEVEL 01 - DEMOLITION ELECTRICAL POWER PLAN - GYM RESTROOMS

1/4" = 1'-0"



8 LEVEL 01 - ELECTRICAL POWER PLAN - GYM RESTROOMS

1/4" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

E0.1 DEMOLITION SCOPE OF WORK INCLUDES ALL AREAS WITH DEMOLISHED WALLS AND PARTIALLY DEMOLISHED WALLS. REMOVE CONDUCTORS AND CONDUIT BACK TO PANEL. ANY UNDER SLAB CONDUIT MAY BE ABANDONED IN PLACE. FOR ALL DEVICES REMOVED FROM WALLS THAT ARE EXISTING TO REMAIN, CONTRACTOR SHALL PATCH WALLS TO MATCH EXISTING CONDITIONS. COORDINATE WITH ARCHITECT. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

E0.5 EXISTING DRINKING FOUNTAIN BEING DEMOLISHED AND REPLACED WITH NEW. CONTRACTOR SHALL DEMOLISH EXISTING RECEPTACLE AND PROVIDE NEW. REFER TO NEW ELECTRICAL PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.

E3.1 PROVIDE 120V POWER TO CIRCULATION PUMP AND TIME SWITCH. PROVIDE ASSOCIATED DISCONNECTS AS REQUIRED. COORDINATE EXACT EQUIPMENT REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

E4.1 CONNECT NEW RECEPTACLE TO EXISTING CIRCUIT SERVING THIS SPACE PRIOR TO DEMOLITION. CONTRACTOR SHALL NOT EXCEED 80% BREAKER RATING PER NEC.

E4.4 APPROXIMATE LOCATION OF NEW DRINKING FOUNTAIN REPLACING EXISTING ONE. PROVIDE NEW GFCI ELECTRICAL RECEPTACLE AS SHOWN ON PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED. REFER TO ELECTRICAL FOUNTAIN DETAIL #6/E5.01. PROVIDE REMOTE GFCI TEST BUTTON ADJACENT TO DRINKING FOUNTAIN AT NORMAL RECEPTACLE HEIGHT IN AN ACCESSIBLE LOCATION. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.

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LEVEL 01 - ELECTRICAL PLANS - ENLARGED

E3.06

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LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	MOUNTING	LAMPS	VOLTAGE	WATTAGE	DESCRIPTION
(D)	DAYBRITE	2FPZ-48L-835-4-DS-UNV-DIM-FSK24	RECESSED	3500°K L.E.D	277 V	37 VA	2X4 LED FLAT PANEL WITH 4800 LUMENS AND 0-10V DIMMING.
A1	DAYBRITE	2FPZ-48L-835-4-DS-UNV-DIM-FSK24	RECESSED	3500°K L.E.D	277 V	37 VA	2X4 LED FLAT PANEL WITH 4800 LUMENS AND 0-10V DIMMING.
A1E	DAYBRITE	2FPZ-48L-835-4-DS-UNV-DIM-FSK24	RECESSED	3500°K L.E.D	277 V	37 VA	2X4 LED FLAT PANEL WITH 4800 LUMENS AND 0-10V DIMMING. PROVIDE 90 MINU

NOTES:
1. LIGHTING FIXTURE CATALOG NUMBERS AND DESCRIPTIONS ARE SCHEDULED FOR ESTABLISHING QUALITY, APPEARANCE AND PERFORMANCE OF THE FIXTURES AS REQUIRED BY THE DESIGN. EXACT CATALOG NUMBERS DESCRIBING MOUNTING CONDITIONS, FINISHES AND REQUIREMENTS RELATED TO TRIMS AND LENS FOR ALL FIXTURES SHALL BE CONFIRMED (BY THE CONTRACTOR) WITH THE ROOM FINISH SCHEDULE AND REFLECTED CEILING PLANS, INCLUDING GRID TYPES, ON THE ARCHITECTURAL DRAWINGS PRIOR TO BIDDING. FIXTURES SHALL BE SUBMITTED ACCORDING TO THE CONDITIONS INDICATED ON THE ARCHITECTURAL PLANS. REFER TO THE WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. THE NEW LIGHT FIXTURES SCHEDULED ARE THE BASIS OF DESIGN. IT IS NOT INTENDED TO LIMIT COMPETITION FROM EQUAL MANUFACTURERS. ALL BIDDERS SHALL SUBMIT THEIR PROPOSED LIGHT FIXTURES IN SUBMITTAL FORM A MINIMUM OF 10 BUSINESS DAYS PRIOR TO BID DATE FOR REVIEW. APPROVED LIGHT FIXTURES WILL BE ISSUED IN AN ADDENDUM.

LIGHTING CONTROLS DEVICE SCHEDULE

TYPE	DESCRIPTION	COMMENTS
S S^{3} S^{4} S^{K}	LINE VOLTAGE SWITCH.	'3' INDICATES THREE WAY SWITCHING. '4' INDICATES FOUR WAY SWITCHING. 'K' INDICATES SWITCH SHALL BE KEYED SWITCH.
S^{OC1}	LINE VOLTAGE WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR	SENSOR SHALL BE SET TO VACANCY MODE
S^{OC2}	LINE VOLTAGE WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DUAL RELAYS.	SENSOR SHALL BE SET TO VACANCY MODE. ONE RELAY SHALL SERVE 120 VOLT LIGHTING IN AREA INDICATED, AND ONE RELAY SHALL SERVE 277 VOLT LIGHTING.
S^{OCD}	LOW VOLTAGE OC SENSOR SWITCH WITH 0-10V DIMMER	SENSOR SHALL BE SET TO VACANCY MODE
S^{LV} S^{LVK}	LOW VOLTAGE MANUAL CONTROL.	CONNECT TO POWER PACK OR ROOM CONTROLLER IF OCCUPANCY SENSORS ARE INDICATED ON PLAN. PROVIDE MULTI-BUTTON SWITCH AS REQUIRED PER SWITCH LEGS SHOWN ON PLANS. 'K' INDICATES SWITCH SHALL BE KEYED SWITCH.
S^{D}	LOW VOLTAGE SWITCH WITH 0-10V DIMMER	PROVIDE MULTI-BUTTON SWITCH AS REQUIRED PER SWITCH LEGS SHOWN ON PLANS. PROVIDE POWER PACKS OR ROOM CONTROLLERS AS REQUIRED.
OC1	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO VACANCY MODE. PROVIDE POWER PACKS AS NEEDED.
OC2	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO OCCUPANCY MODE. PROVIDE POWER PACKS AS REQUIRED.

NOTES:
1. WATTSTOPPER IS THE BASIS OF DESIGN.
2. THE LIGHTING CONTROLS SCHEDULED ARE THE BASIS OF DESIGN. IT IS NOT INTENDED TO LIMIT COMPETITION FROM EQUAL MANUFACTURERS. ALL BIDDERS SHALL SUBMIT THEIR PROPOSED LIGHTING CONTROLS IN SUBMITTAL FORM A MINIMUM OF 10 BUSINESS DAYS PRIOR TO BID DATE FOR REVIEW. APPROVED LIGHTING CONTROL SYSTEMS WILL BE ISSUED IN AN ADDENDUM.
3. BASIS OF DESIGN SHALL BE A HARD-WIRED TYPE SYSTEM, UNLESS NOTED OTHERWISE.

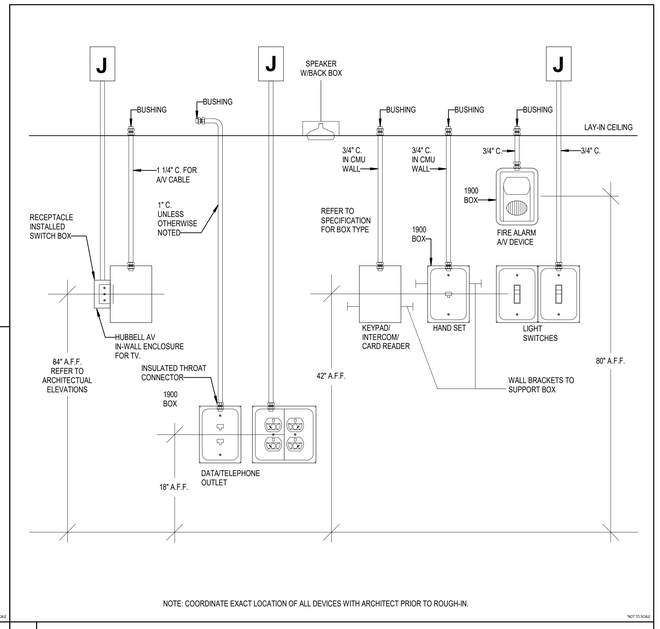
2021 STANDARD SEQUENCE OF OPERATIONS

ROOM TYPE	AUTO ON1	MANUAL ON (VACANCY)	AUTO OFF (20MIN MAX)	PARTIAL OFF AT NORMAL HOURS2	AUTO OFF AFTER HOURS (30MIN MAX)	TIME ON	TIME OFF	ASTRONOMIC or PHOTOCELL ON/OFF	AUTO STEP CONTROL WITH OFF4	AUTO CONTINUOUS DIM WITH OFF4, 5	MANUAL BI-LEVEL REDUCTION CONTROL6	MANUAL CONTINUOUS DIM CONTROL	MANUAL ON/OFF SWITCH	MANUAL DIMMER SWITCH	DISPLAY, ACCENT, TASK CONTROL7	AUTOMATIC RECEPTACLE CONTROL	SEQUENCE OF OPERATION
	OCCUPANCY SENSOR					TIME SWITCH			DAYLIGHT CTL		LT REDUCT		MANUAL CONTROL				
Spaces (≤ 300 sq ft)	50%		20 min							D	●	D	●	D			Auto On 50%, Occupancy sensor Auto Off. Manual control and >50% light reduction with two on/off controls; Where >150W in daylight area, use continuous dimming daylighting control and dimmer switch.
Janitor Closet		●	20 min										●				Manual On; Occupancy sensor Auto Off, Manual control device.
Restroom	100%		20 min										●				Auto On 100%. Occupancy sensor Auto Off, Manual control.

v1 - 8519202

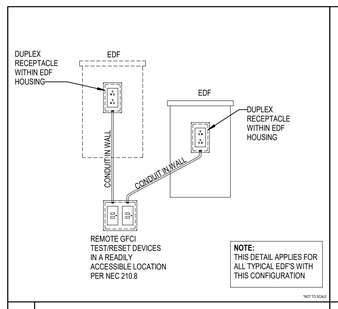
●🖬 Designation for code compliant default control design for spaces without daylighting control
D = Where daylighting control is required, "D" designation indicates controls required in the space for code compliance design
CK = Captive Key Switch system for use in Hotel/Motel and Guest Suites

NOTES:
1 May be Manual On or Auto On to ≤50%. Full Auto On only permitted in Corridors, Interior Parking, Stairways, Lobbies, Restrooms, Open Office, Library Stacks, Locker Rooms.
2 Partial Auto Off must reduce lighting by ≥50% during normal operating hours in corridors, warehouse aisles and open areas. Each aisle must be independently controlled. Full Auto Off complies with Partial Auto Off.
3 Exterior / Parking / Site lighting must Auto Off during daylight hours, reduce by at least 50% between midnight and 6AM or from one hour after business closing until 6AM before business opening.
4Automatic daylight control required where >150W lighting power in toplight or sidelight daylight area. Continuous dimming with Off. Assumes 0-10V dimmable fixtures in daylight and non-daylight area unless otherwise specified.
5Code requires automatic continuous dimming with full Off capability in daylighting areas of all space types.
6Manual bilevel lighting reduction control must allow ≥50% of the general lighting to be manually turned off by a control device located in the space.
7Display, Accent and Task lighting must have manual control independent from general lighting. Auto Off with occupancy sensors or time switch control required. Exempt from automatic daylighting control.

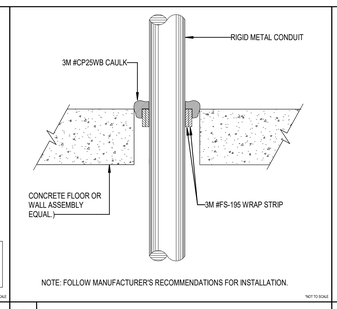


NOTE: COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.

1 TYPICAL DEVICE ELEVATIONS

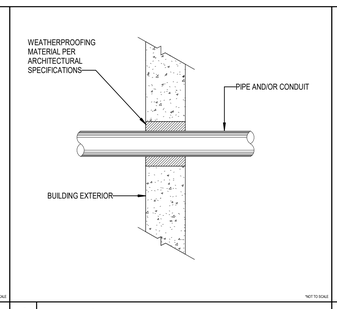


6 ELEC. DRINKING FOUNTAIN

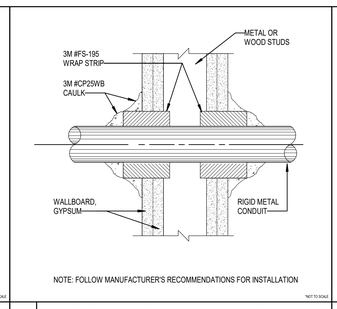


NOTE: FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.

5 2, 3 AND 4 HR. PENETRATIONS FOR CONCRETE

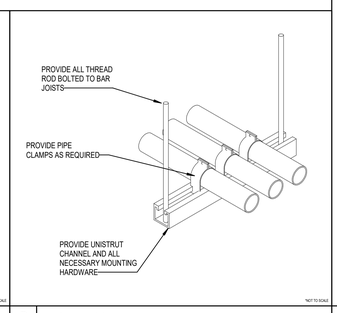


4 PIPE AND/OR CONDUIT PENETRATION

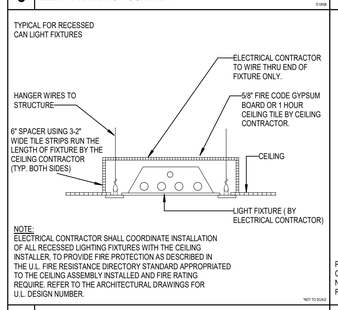


NOTE: FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION

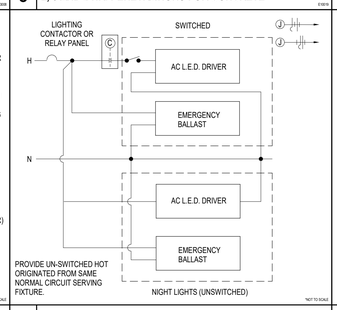
3 2 HR. GYPSUM WALLBOARD PIPE PENETRATION



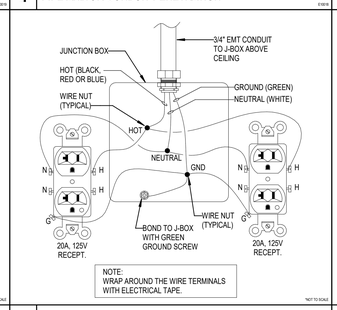
2 UNISTRUT CONDUIT



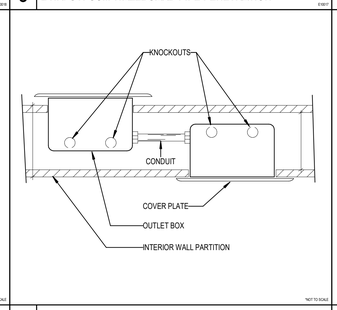
13 FIRE RATED LIGHT FIXTURE



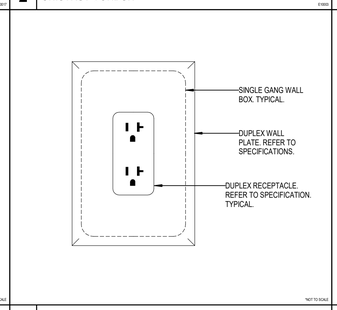
12 EMERGENCY BATTERY WIRING



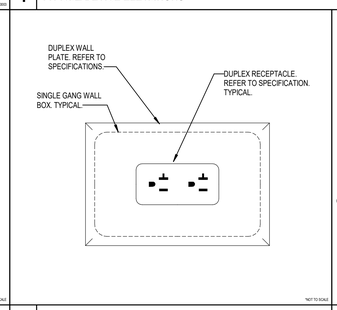
11 20A, 125V RECEPTACLE WIRING



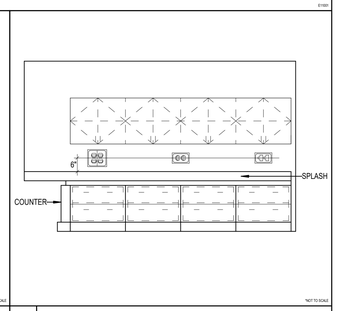
10 BACK - TO - BACK OUTLETS



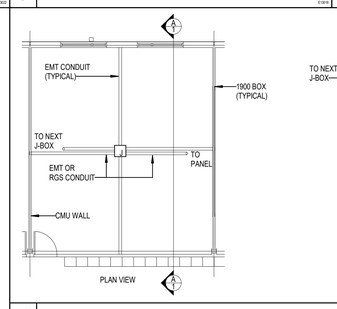
9 TYPICAL RECEPTACLE MOUNTING



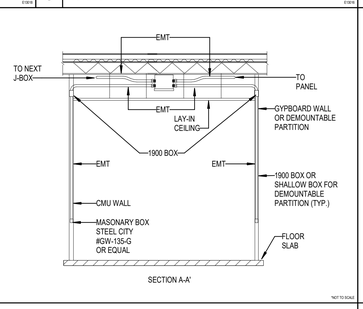
8 HORIZONTAL RECEPTACLE MOUNTING

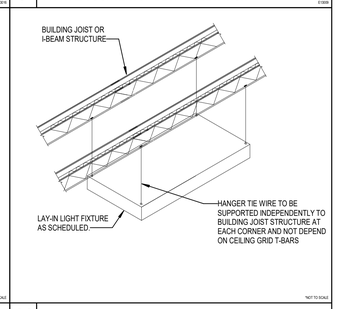


7 TYPICAL COUNTERTOP DEVICE ELEVATION



15 TYPICAL RACEWAY CONFIGURATION





14 LIGHTING FIXTURE SUPPORT

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ELECTRICAL SCHEDULES

E5.01

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PANEL SCHEDULE GENERAL NOTES:

A. ALL CIRCUITS ON EXISTING PANELS ARE EXISTING CIRCUIT/BREAKERS TO REMAIN UNLESS NOTED OTHERWISE BY KEYED NOTE.

B. ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE SCHEDULED.

C. CONTRACTOR SHALL REFER TO PROJECT SPECIFICATIONS FOR SPARE CONDUITS TO BE PROVIDED PER PANEL

D. ALL PANEL SCHEDULES SHALL BE UPDATED WITH NEW DIRECTORIES. ANY EXISTING CIRCUITS TO REMAIN SHALL BE CIRCUIT TRACED AND LABELING UPDATED ACCORDINGLY WITH ROOM NAMES, NUMBERS, DEVICE/EQUIPMENT TYPE. ROOM NAMING AND NUMBERING SHALL BE BASED ON THE FINAL ROOMNAMING AND NUMBERING IDENTIFIED BY THE ARCHITECT AND OWNER. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION AND ADDITIONAL DIRECTORY REQUIREMENTS.

PANEL SCHEDULE KEYED NOTES:

1. EXISTING BRANCH CIRCUIT TO REMAIN. CONTRACTOR SHALL CIRCUIT TRACE AND FIELD VERIFY THE EXISTING LOAD CIRCUIT. UPDATE THE PANEL DIRECTORY WITH THE DEVICE/EQUIPMENT TYPE, ROOM NUMBER, ROOM NAME, ETC. REFERENCE SPECIFICATIONS AND GENERAL NOTES FOR ADDITIONAL INFORMATION. ANY EXISTING CIRCUITS DETERMINED TO BE SPARES, SHALL BE FLIPPED TO THE OFF POSITION AND PANEL DIRECTORY UPDATED ACCORDINGLY. CONTRACTOR SHALL FIELD VERIFY.

2. EXISTING BREAKER IN THE PANEL SHALL REMAIN AS SPARE, FLIPPED TO THE OFF POSITION AND LABELED ON THE NEW PANEL DIRECTORY AS A SPARE BREAKER. CONTRACTOR SHAL FIELD VERIFY.

3. REUSE EXISTING PANEL SPACE FOR NEW CIRCUITING AND NEW BREAKER. CONTRACTOR SHALL FIELD VERIFY EXISTING CIRCUITING/EQUIPMENT THAT IS EXISTING TO REMAIN PRIOR TO UTILIZING PANEL SPACE. EQUIPMENT/CIRCUITS DETERMINED TO BE EXISTING TO REMAIN DURING FIELD VERIFICATION SHALL REMAIN IN PLACE AS REQUIRED.

4. REUSE EXISTING BREAKER FOR NEW ELECTRICL CIRCUIT. CONTRACTOR SHALL FIELD VERIFY.

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ELECTRICAL SCHEDULES

E5.02

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(NOT ALL ITEMS INDICATED APPLY TO THIS PROJECT)

ABBREVIATIONS

A

A	AIR (COMPRESSED)
AC	AIR COMPRESSOR
AD	AIR DRYER
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AUX	AUXILIARY
AV	ACID VENT
AVV	AIR ADMITTANCE VALVE
AW	ACID WASTE

B

B	BOILER
BF	BOTTLE FILLER
BFF	BELOW FINISH FLOOR
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BT	BATH TUB
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACK WATER VALVE

C

C	CELSIUS
CAB	CABINET
CB	CATCH BASIN
CD	CONDENSATE DRAIN LINE
CI	CAST IRON
CIRC	CIRCULATING
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CMU	CONCRETE MASONRY UNIT
CL	CENTERLINE
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE, CONCENTRIC
CONN	CONNECTION
CP	CIRCULATING PUMP, CHROME PLATE
CPI	CAST IRON PIPE INSTITUTE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CTE	CONNECT TO EXISTING
CW	COLD WATER

D

DBP	DOMESTIC BOOSTER PUMP
DC	DOWNSPOUT COVER
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN, DOWNSPOUT NOZZLE
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING

E

ECC	ECCENTRIC
EDF	ELECTRIC DRINKING FOUNTAIN
EL OR ELVA	ELEVATION
ES	EMERGENCY SHOWER
ESP	ELEVATOR SUMP PUMP
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EW	EYE WASH
EWH	ELECTRIC WATER HEATER

F

F	FARENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FCV	FLOOR CONTROL VALVE
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FEC	FIRE EXSTINGUISHER CABINET
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FIXT	FIXTURE
FL	FLOW LINES
FLEX	FLEXIBLE
FLR	FLOOR
FP	FIRE PUMP
FS	FLOW SWITCH, FIRE SPRINKLER FLOOR SINK
FT	FOOT, FEET
FW	FORCE WASTE, FILTER WATER

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GD	GARBAGE DISPOSAL
GI	GREASE INTERCEPTOR
GL	GLOBE VALVE
GPD	GALLONS PER DAY
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GT	GREASE TRAP
GV	GATE VALVE, GREASE VENT
GW	GREASE WASTE
GWH	GAS WATER HEATER

H

HB	HOSE BIBB
HC	HANDICAPPED
HD	HEAD, HUB DRAIN
HKP	HOUSEKEEPING PAD
HP	HORSEPOWER
HR	HOSE REEL
HSC	HORIZONTAL SPLIT CASE
HT	HEIGHT
HTR	HEATER
HW	HOT WATER
HWR	HOT WATER RETURN
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INSUL	INSULATION
IW	INDIRECT WASTE
IWH	INSTANTANEUOS WATER HEATER

J

JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPTMENT CONTRACTOR
KVA	KILOVOLT- AMPS
KW	KILOWATT

L

L	LENGTH, LAVATORY
LAV	LAVATORY
LF	LINEAR FEET
LP	LOW PRESSURE
LPG	LIQUEFIED PETROLEUM GAS
LT	LINT, LINT TRAP
LVL	LEVEL

M

MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MS	MOP SINK
MSB	MOP SERVICE BASIN
MTD	MOUNTED
MUW	MAKE-UP WATER

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE

O

O	MEDICAL OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OS&Y	OPEN STEM AND YOLK

P

PC	PLUMBING CONTRACTOR
PH	PHASE
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PNL	PANEL
POU	POINT-OF-USE
PP	POLYPROPYLENE
PPM	PART PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
PVDF	POLYVINYL IDENE FLUORIDE

Q

QTY	QUANTITY

R

RCP	REFLECTED CEILING PLAN, REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE	REFERENCE,REFER
RECIRC	RECIRCULATE
REFR	REFRIGERATOR
RH	ROOF HYDRANT
RM	ROOM
RO	REVERSE OSMOSIS
RPBF	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

SA	SHOOK ABSORBER
SC	SCHEDULE
SD	STORM DRAIN, SANITARY DRAIN
SEC	SECONDARY
SECT	SECTION
SF	SQUARE FEET
SH	SHOWER
SHI	SOLID HAIR INTERCEPTOR
SI	SOLIDS INTERCEPTOR
SIM	SIMILAR
SK	SINK
SOS	SAND OIL SEPERATOR
SOV	SHUT-OFF VALVE
SP	SUMP PUMP, STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	SERVICE SINK, SOIL STACK, STAINLESS STEEL
SSD	SUBSURFACE DRAIN
STD	STANDARD
STL	STEEL
STR	STRAINER
SV	SANITARY VENT
SW	SOFT WATER

T

TCO	TRAFFIC CLEANOUT
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TDL	TOTAL DEVELOPED LENGTH
TLT	TOILET
TMV	THERMOSTATIC MIXING VALVE
TOB	TOP OF BEAM
TOF	TOP OF FOOTER
TP	TRAP PRIMER
TPD	TRAP PRIMER DEVICE
TS	TAMPER SWITCH
TYP	TYPICAL

U

U	URINAL
UF	UNDERFLOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
US	UNDERSLAB

V

V	VOLT, VENT
VAC	VACUUM(MEDICAL)
VB	VALVE BOX, VACUUM BREAKER
VFD	VARIABLE FREQUENCY DRIVE
VP	VACUUM PUMP
VS	VENT STACK
VTR	VENT THRU ROOF

W

W	WATT, WASTE, WIDTH, WASHER
W/	WITH
W/O	WITHOUT
WADG	WASTE ANESTHETIC GAS DISPOSAL
WB	WALL BOX
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WM	WATER METER
WMB	WASHER MACHINE BOX
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WS	WATER SOFTENER, WASTE STACK
WSFU	WATER SUPPLY FIXTURE UNIT
WT	WATERTIGHT, WEIGHT

Y

YCO	YARD CLEANOUT
YH	YARD HYDRANT

Z

Z	ZONE

SYMBOLS

PLUMBING SYSTEMS

- SANITARY DRAIN BELOW FLOOR
- S(E) — EXISTING SOIL OR WASTE PIPING B.G. - S(E)
- SANITARY DRAIN ABOVE FLOOR
- S(E) — EXISTING SOIL OR WASTE PIPING A.G. - S(E)
- PIPE DEMO
- SANITARY VENT
- EXISTING VENT PIPING
- GW — GREASE WASTE(ABOVE CEILING)
- GW — GREASE WASTE(BELOW FLOOR)
- SD — STORM DRAIN(ABOVE CEILING)
- SD — STORM DRAIN(BELOW FLOOR)
- OD — OVERFLOW DRAIN(ABOVE CEILING)
- OD — OVERFLOW DRAIN(BELOW FLOOR)
- AW — ACID WASTE(ABOVE CEILING)
- AW(E) — EXISTING ACID WASTE PIPING A.G. - AW(E)
- AW — ACID WASTE(BELOW FLOOR)
- AW(E) — EXISTING ACID WASTE PIPING B.G. - AW(E)
- AV — ACID VENT(ABOVE CEILING OR BELOW FLOOR)
- AV(E) — EXISTING ACID VENT PIPING - AV(E)
- NP-CW — NON-POTABLE - COLD WATER
- COLD WATER - CW
- CW(E) — EXISTING DOMESTIC COLD WATER - CW(E)
- HOT WATER - HW
- HW(E) — EXISTING DOMESTIC HOT WATER - HW(E)
- HOT WATER RECIRCULATION
- HWR(E) — EXISTING DOMESTIC HOT WATER RETURN - HWR(E)
- G (4oz) — NATURAL GAS (LOW PRESSURE)
- G (2 PSI) — NATURAL GAS (MEDIUM PRESSURE)
- G (5 PSI) — NATURAL GAS (HIGH PRESSURE)
- T — TEMPERED WATER
- A — COMPRESSED AIR
- MA — MEDICAL AIR
- O — MEDICAL OXYGEN
- MV — MEDICAL VACUUM
- F — FIRE STANDPIPE, FIRE LINE
- FS — WET AUTOMATIC FIRE SPRINKLER
- FW — FORCE WASTE
- TP — TRAP PRIMER
- D — DRAIN LINE
- SW — SOFT WATER
- LT — LINT WASTE
- LP — LIQUIFIED PETROLEUM GAS
- N — NITROGEN
- N2O — NITROUS OXIDE
- IA — INSTRUMENT AIR
- WAGD — WASTE ANESTHETIC GAS DISPOSAL

PIPING FITTINGS

- CAP ON END OF PIPE
- ELBOW UP
- ELBOW DOWN
- VALVE IN DROP
- VALVE IN RISE
- DIRECTION OF FLOW
- DIRECTION OF SLOPE DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- TEE OUTLET UP
- TEE OUTLET DOWN
- UNION
- FLANGE
- STRAINER WITH BLOWDOWN VALVE
- GATE VALVE, HVAC BALANCING/STOP VALVE
- GLOBE VALVE
- BALL VALVE
- BALANCING VALVE WITH DIFFERENTIAL PRESSURE TAPS
- OS&Y VALVE
- CHECK VALVE
- BUTTERFLY VALVE
- TWO-WAY MODULATING CONTROL VALVE
- THREE-WAY MODULATING CONTROL VALVE
- SOLENOID VALVE
- PRESSURE REDUCING VALVE
- GAS REGULATOR
- GAS COCK
- SPRINKLER FLOOR CONTROL STATION
- MANUAL AIR VENT
- AUTOMATIC AIR VENT
- T&P RELIEF VALVE
- LINE CLEANOUT/ WALL CLEANOUT
- FLOOR CLEANOUT
- GRADE CLEANOUT
- PRESSURE GAUGE WITH GAUGE COCK
- THERMOMETER
- FLOW VENTURI
- VACUUM BREAKER
- VACUUM RELIEF VALVE
- BACKFLOW PREVENTOR
- CIRCULATING PUMP
- WATER SUB-METER
- LOCAL ALARM
- MASTER ALARM
- AREA ALARM

MISCELLANEOUS

- DRAIN(TYPE AND SIZE AS NOTED ON PLANS)
- ROOF DRAIN OR OVERFLOW DRAIN
- ROOF DRAIN OR OVERFLOW DRAIN(FROM ABOVE)
- HOSE BIBB
- WALL HYDRANT
- PLUMBING FIXTURES
- EXISTING PLUMBING FIXTURES
- POINT OF NEW CONNECTION TO EXISTING PIPING
- P.X.X — PLUMBING DRAWING NOTE REFERENCE
- 2 / P2.1 — DETAIL NUMBER OR PLAN / SHEET WHERE DETAIL OR PLAN IS SHOWN
- FS — FLOW SWITCH
- TS — TAMPER SWITCH
- ACCESS PANEL (AP)
- FIRE DEPARTMENT SIAMESE CONNECTION(WALL MOUNTED)
- FIRE DEPARTMENT SIAMESE CONNECTION(FREE STANDING)
- 2 / P7.1 — PLUMBING RISER DIAGRAM NUMBER / SHEET WHERE PLUMBING RISER DIAGRAM IS SHOWN

PLUMBING CODES

2021 UNIFORM PLUMBING CODE
2021 EXISTING BUILDING CODE

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PLUMBING SYMBOL LEGEND

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GENERAL WORK NOTES

1. ALL WORK, METHODS, AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE PREVAILING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
2. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS, ELEVATIONS, DIRECTION OF FLOW, PIPE SIZES & CAPACITIES, AND PIPE MATERIAL & CONDITION AT PROPOSED POINTS OF CONNECTION WITH EXISTING BUILDING PLUMBING LINES AND SITE CIVIL LINES PRIOR TO INSTALLATION OF ANY NEW WORK. MODIFY/REPLACE EXISTING PIPING IF AND AS REQUIRED TO ENSURE PROPER CONNECTIONS. ONLY CONNECT NEW LINES TO SUITABLE EXISTING LINES OF EQUAL OR GREATER SIZE.
3. COORDINATE ROUTING OF BURIED PIPING WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND UTILITIES, AND ALL OTHER SUB-SURFACE BUILDING ELEMENTS. MAKE ADJUSTMENTS AS REQUIRED AND ADVISE ARCHITECT/ENGINEER OF ANY GRADING CONFLICTS PRIOR TO COMMENCING INSTALLATION.
4. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL CONDITIONS AND PROVIDE PROPER PIPING INSTALLATIONS AS REQUIRED WITHOUT DAMAGE TO STRUCTURE. WHERE STRUCTURAL MODIFICATIONS WILL BE REQUIRED, THE CONTRACTOR SHALL FIRST RECEIVE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER AND PROVIDE ALL SUCH WORK ACCORDINGLY.
5. COORDINATE IN FIELD TO ENSURE NO LESS THAN 6 INCHES OF EARTHEN COVER FROM TOPS OF DRAINAGE PIPES TO BOTTOMS OF GRADE BEAMS, FOUNDATION WALLS, OR SIMILAR ELEMENTS. WHERE SUCH COVER CANNOT BE PROVIDED DUE TO INVERT ELEVATIONS, PROVIDE SCHEDULE 40 GALVANIZED STEEL PIPE SLEEVES THROUGH THE FOUNDATION ELEMENTS. SLEEVES SHALL BE NO SMALLER THAN TWO PIPE SIZES LARGER THAN THE PIPE SERVED. SEAL WATERTIGHT. COORDINATE WITH AND ADHERE TO ALL RELATED REQUIREMENTS PER THE STRUCTURAL ENGINEER.
6. CONTRACTOR SHALL FIELD COORDINATE LOCATIONS AND ELEVATIONS OF ALL PLUMBING PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. WHERE RELOCATIONS OF NEW WORK ARE REQUIRED TO CORRECT CONFLICTS WITH OTHER TRADES IT SHALL BE DONE AT NO ADDITIONAL COST TO OWNER.
7. ALL PIPE PASSING THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SUPPORTED AT THE PENETRATION AND SHALL BE SEALED WITH APPROVED FIRE STOP MATERIALS AS SPECIFIED AND AS REQUIRED BY CODE AND THE AUTHORITIES HAVING JURISDICTION.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING ALL PLUMBING PIPING SLEEVE LOCATIONS WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF ANY PIPING OR SUPPORTS.
9. HORIZONTAL GRAVITY DRAINAGE PIPING SHALL BE PROVIDED AT NO LESS THAN THE MINIMUM SLOPE AS REQUIRED BY THE PREVAILING PLUMBING CODE.
   A. IN ACCORDANCE WITH THE UPC: GRAVITY DRAINAGE PIPING 3" AND SMALLER SHALL BE PROVIDED AT NO LESS THAN 1/4 INCH PER FOOT UNIFORM SLOPE AND GRAVITY DRAINAGE PIPING 4" AND LARGER SHALL BE PROVIDED AT NO LESS THAN 1/8 INCH PER FOOT UNIFORM SLOPE.
   B. IN ACCORDANCE WITH THE IPC: GRAVITY DRAINAGE PIPING 2-1/2" AND SMALLER SHALL BE PROVIDED AT NO LESS THAN 1/4 INCH PER FOOT UNIFORM SLOPE AND GRAVITY DRAINAGE PIPING 3" AND LARGER SHALL BE PROVIDED AT NO LESS THAN 1/8 INCH PER FOOT UNIFORM SLOPE.
   C. WHERE THE PREVAILING CODE REQUIRES A STEEPER SLOPE THAN INDICATED ABOVE (SUCH AS FOR GREASE WASTE PIPING) THEN SUCH REQUIREMENT SHALL CONTROL.
10. SLOPE ALL VENT PIPE BACK FROM THE VENT TERMINAL AT A MINIMUM 6" PER 100 FEET OF RUN.
11. THE DISCHARGE LINE FROM ANY EJECTOR OR PUMP WHICH CONNECTS TO A HORIZONTAL GRAVITY DRAINAGE LINE SHALL BE FROM THE TOP, THROUGH A WYE BRANCH FITTING.
12. PROVIDE FITTINGS FOR DRAINAGE WASTE AND VENT (DWV) AND STORM PIPING SYSTEMS OF APPROVED DRAINAGE PATTERN AND LONG OR SHORT RADIUS TYPES AS REQUIRED AND APPROVED FOR USE IN COMPLIANCE WITH PLUMBING CODE REQUIREMENTS.
13. PROVIDE CLEANOUTS AT EACH CHANGE OF DRAINLINE DIRECTION GREATER THAN 45° AND IN COMPLIANCE WITH PLUMBING CODE REQUIREMENTS.
14. PROVIDE BRACING TO PREVENT AXIAL MOVEMENT FOR ALL DRAINAGE PIPING. PROVIDE RESTRAINTS AT ALL CHANGES IN DIRECTION AND AT ALL DIAMETER CHANGES GREATER THAN TWO PIPE SIZES. SPECIFICALLY ENGINEERED BRACES, STRAPS, AND CLAMPS CONSISTENT WITH THE PIPE AND COUPLING MANUFACTURER RECOMMENDATIONS, THE APPLICABLE INSTALLATION STANDARDS, AND LOCAL CODE REQUIREMENTS SHALL BE ACCEPTABLE. HOLDRITE OR PRE-APPROVED EQUIVALENT PRODUCTS.
15. PROVIDE ISOLATING BALL VALVES FOR ALL BRANCHES OFF DOMESTIC WATER MAINS. ALL PLUMBING SYSTEM VALVES SHALL BE INSTALLED IN ACCESSIBLE CEILING SPACES. WHERE CEILING IS NOT ACCESSIBLE, OR SPACE IS CONFLICTING, VALVES SHALL BE INSTALLED IN PARTITIONS OR PIPE CHASES. PROVIDE MILCOR STYLE "K" PAINTED STEEL HINGED ACCESS PANELS IN LOCATIONS PRE-APPROVED BY THE ARCHITECT.
16. ALL HOT WATER AND HOT WATER CIRCULATING PIPING SHALL BE PROVIDED WITH FIBERGLASS INSULATION WITH ALL SERVICE JACKET AND SELF SEALING LAP JOINT AS FOLLOWS:
   A. 1" THICK INSULATION FOR PIPE SIZES 1-1/4" AND SMALLER.
   B. 1-1/2" THICK INSULATION FOR PIPE SIZES 1-1/2" AND LARGER.
17. INSTALL EACH WATER HEATER AND ALL OTHER PLUMBING EQUIPMENT WITH ADEQUATE CLEARANCES FOR ACCESS BY SERVICE PERSONNEL AND WITH PROPER ORIENTATION FOR ELEMENT REMOVAL/REPLACEMENT.
18. CONTRACTOR SHALL STERILIZE ALL DOMESTIC WATER PIPING ACCORDING TO AMERICAN WATER WORKS ASSOCIATION (AWWA) SPECIFICATIONS.
19. ALL CAST IRON PIPE, FITTINGS AND INSTALLATION SHALL COMPLY WITH THE CAST IRON SOIL PIPE INSTITUTE (CISPI) STANDARDS.
20. FLASH FLOOR DRAINS IN FLOORS WITH TOPPING OVER FINISHED AREAS WITH 40 MIL PVC MEMBRANE, 10 INCHES CLEAR ON SIDES WITH MINIMUM 36 X 36 INCH SHEET SIZE. FASTEN WATERPROOFING MEMBRANE FLASHING TO DRAIN CLAMPING DEVICE.
21. NO PLUMBING PIPING SHALL BE ROUTED OVER MAJOR MECHANICAL EQUIPMENT, MDF/IDF/DATA CLOSETS, ELECTRICAL ROOMS, OR ANY SUCH EQUIPMENT.
22. COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND ALSO TO MINIMIZE INTERRUPTION OF SERVICES FOR RENOVATIONS.
23. THE PROPER INSTALLATION OF NEW FIXTURES AND THE PROPER CONTINUED OPERATION OF EXISTING BUILDING FIXTURES TO REMAIN (FOR RENOVATIONS) SHALL GOVERN THE EXTENT AND NATURE OF WORK.
24. FOR RENOVATIONS THE CONTRACTOR SHALL MAKE ARRANGEMENTS IN ADVANCE WITH THE OWNER PRIOR TO ANY NECESSARY SHUT DOWN OF THE DOMESTIC WATER OR ANY OTHER SERVICE. ANY SUCH SHUT DOWN SHALL BE AT A TIME AND FOR A DURATION SATISFACTORY TO THE OWNER, WHO SHALL MAKE THE FINAL DETERMINATION AS TO ITS ACCEPTABILITY.
25. RENOVATIONS SITE INSPECTIONS: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMITTING A BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND EXACT NATURE OF WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN THE CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDS FOR ANY OMISSION WHICH RESULTS FROM FAILURE TO MAKE SUCH A THOROUGH EXAMINATION. NOTE THAT FOR GRAPHICAL CLARITY, ALL EXISTING PIPING TO REMAIN OR BE ABANDONED IN PLACE MAY NOT BE SHOWN ON THE FLOOR PLANS.

DEMOLITION NOTES:

1. FIELD VERIFY AS NECESSARY THE EXACT LOCATIONS/ROUTING/SIZES OF PLUMBING FIXTURES, PIPING, AND EQUIPMENT TO BE REMOVED OR RE-USED. REFER TO ARCHITECTURAL DRAWINGS FOR CLARIFICATION AS REQUIRED.
2. ALL PLUMBING FIXTURES/EQUIPMENT NOT SPECIFICALLY IDENTIFIED FOR REMOVAL SHALL REMAIN. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES/CONFLICTS FOUND IN THE FIELD.
3. UNLESS NOTED OTHERWISE, WHERE FIXTURES ARE TO BE REMOVED; REMOVE FIXTURE, CARRIER, FAUCET/FLUSH VALVE, SUPPLIES/STOPS, TUBULAR BRASS, AND ASSOCIATED PIPING AS DESCRIBED.
4. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS, WHERE EACH NEW WALL HUNG FIXTURE WILL BE PROVIDED AND WHERE EACH EXISTING WALL HUNG FIXTURE WILL BE RE-INSTALLED, A NEW CORRESPONDING FIXTURE CARRIER SHALL ALSO BE PROVIDED. THIS REQUIREMENT SHALL APPLY TO ONE-FOR-ONE FIXTURE REPLACEMENTS AND ALL ADJUSTMENTS TO WALL HUNG FIXTURE LOCATIONS AND FIXTURE HEIGHTS. ALL WORK ASSOCIATED WITH PROVIDING SUCH CARRIERS SHALL BE INCLUDED IN THE PROJECT SCOPE WITH NO EXCEPTIONS.
5. ALL PLUMBING FIXTURES AND/OR EQUIPMENT REMOVED SHALL BE SUBMITTED TO THE OWNER WITH THE OPTION TO BE REUSED, WHICH SHALL BE SOLELY AT THE DISCRETION OF THE OWNER. ITEMS THE OWNER DOES NOT WISH TO REUSE BUT WISHES TO RETAIN SHALL BE DELIVERED TO STORAGE AS DIRECTED. ITEMS THE OWNER DOES NOT WISH TO REUSE OR RETAIN SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF LEGALLY.
6. REMOVE ALL PIPING FROM ABOVE FLOOR TO BELOW ROOF/FLOOR ABOVE WHICH WAS PREVIOUSLY ABANDONED OR WHICH SERVES PLUMBING FIXTURES DESIGNATED FOR REMOVAL, UNLESS NEW FIXTURES ARE TO BE INSTALLED IN THOSE LOCATIONS - REFER TO PLUMBING FLOOR PLANS. PRIOR TO ANY REMOVAL, FIELD VERIFY THAT LINES TO BE REMOVED DO NOT SERVE ANY FIXTURES TO REMAIN. CAP REMOVED BRANCH LINES AS CLOSE AS POSSIBLE TO EXISTING MAINS TO REMAIN.
7. WHERE SLAB ON GRADE FLOOR DRAINS OR SIMILAR INSTALLATIONS ARE TO BE REMOVED, THE STRAINER AND DRAIN BODY SHALL BE REMOVED. PLUG THE WASTE PIPE WATERTIGHT BELOW FINISHED FLOOR. PATCH AND REFINISH THE FLOOR TO MATCH EXISTING.
8. AT PLUMBING WASTE/VENT PIPE PENETRATIONS THROUGH SLAB ON GRADE NO LONGER REQUIRED, PLUG THE PIPES WATERTIGHT BELOW FINISHED FLOOR. PATCH AND REFINISH THE FLOOR TO MATCH EXISTING.
9. WHERE BURIED WASTE/VENT BRANCH LINES ARE PLUGGED AND ABANDONED IN PLACE, THE ABANDONED LINES SHALL REMAIN OTHERWISE SERVICEABLE AND THE REMAINING PIPING SYSTEM SHALL REMAIN INTACT AND FUNCTIONAL.
10. WHERE FIXTURES ARE REMOVED, NO NEW FIXTURES ARE TO BE INSTALLED, AND EXISTING VENTS THROUGH ROOF ARE NO LONGER REQUIRED, VENT TERMINALS ARE TO BE COMPLETELY REMOVED UNLESS NOTED OTHERWISE. THE ROOF SHALL BE REPAIRED AND SEALED WATERTIGHT TO MATCH THE EXISTING ROOF SYSTEM.
11. IN THE COURSE OF DEMOLITION, ANY PIPING TO REMAIN THAT IS EXPOSED AND FOUND TO BE UNLABELED SHALL BE IDENTIFIED AND LABELED ACCORDINGLY. PROVIDE PIPE MARKERS TO INDICATE TYPE OF SERVICE AND DIRECTION OF FLOW.
12. IN THE COURSE OF DEMOLITION, THE CONTRACTOR SHALL ASSIST THE OWNER BY BRINGING TO THE DESIGN TEAM'S ATTENTION ANY EXISTING PLUMBING RELATED ITEMS INTENDED TO REMAIN BUT WHICH ARE FOUND TO BE UNFIT FOR SERVICE OR IN NEED OF REPAIR. THIS SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, THE FOLLOWING: LEAKING OR DETERIORATED PIPING AND VALVES; IMPROPERLY SLOPED/SUPPORTED OR SAGGING PIPE; MISSING, DAMAGED, OR DETERIORATED INSULATION; CODE REQUIRED BUT MISSING BACKFLOW PREVENTION MEASURES; FIXTURES, FLUSH VALVES, FAUCETS, EQUIPMENT, AND APPURTENANCES NOT FUNCTIONING AS INTENDED.
13. IN THE COURSE OF DEMOLITION, THE CONTRACTOR SHALL ASSIST THE OWNER BY BRINGING TO THE DESIGN TEAM'S ATTENTION ANY EXISTING NON-PLENUM RATED PIPING (PVC, ETC.) INTENDED TO REMAIN WHICH IS FOUND IN A RETURN AIR PLENUM SPACE. UNLESS DEEMED UNACCEPTABLE BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) OR OWNER, ALL SUCH PIPING SHALL BE WRAPPED WITH FIRE RESISTANT INSULATION. 3M FIRE BARRIER PLENUM WRAP 5A OR PRE-APPROVED EQUAL THAT HAS BEEN TESTING IN ACCORDANCE WITH ASTM E84 AND UL 910. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDED METHODS.

FIXTURES NOTES

1. DO NOT ROUGH-IN UNDERGROUND PIPING OR ANY OTHER CONNECTIONS FOR FIXTURES FROM THE PLUMBING DRAWINGS. REFER TO LATEST ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DIMENSIONED LOCATIONS. COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH THE LATEST ARCHITECTURAL DRAWINGS, SPECIFICATIONS, AND MANUFACTURER RECOMMENDATIONS PRIOR TO ANY ROUGH-INS.
2. CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS AND DIMENSIONS OF FINISHED FLOORS AND WALLS. TRUE ALL DRAINS, ROUGH-INS AND CARRIERS IN ACCORDANCE WITH THE PROPOSED ELEVATIONS AND FINISHED SURFACES.
3. THE MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG AND COUNTER MOUNTED FIXTURES SHALL BE COORDINATED WITH THE LATEST ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-IN WORK.
4. PROVIDE LABOR AND MATERIALS AS REQUIRED TO MAKE FINAL CONNECTIONS TO ALL PLUMBING FIXTURES, EQUIPMENT, AND RELATED ITEMS FURNISHED UNDER SEPARATE DIVISIONS. INSTALL ASSOCIATED TRIM AND COMPONENT ACCESSORIES FURNISHED UNDER SEPARATE DIVISIONS.
5. CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF ACTUAL EQUIPMENT TO BE SUPPLIED FOR THE FINAL COORDINATION OF ALL ROUGH-INS BEFORE BEGINNING WORK.
6. ALL FIXTURE AND EQUIPMENT STUB-OUTS SHALL BE PROVIDED WITH A STOP VALVE. UNLESS SPECIFIED OTHERWISE, ALL FIXTURE STOPS SHALL BE SOLID BRASS, LOOSE KEY OPERATED, CHROME PLATED, AND FITTED TIGHT TO CHROME PLATED BRASS WALL ESCUTCHEON PLATES COMPLETE WITH SUPPLY RISERS OF TYPE 'L' TUBING, CHROME PLATED. MCGUIRE MANUFACTURING OR PRE-APPROVED EQUAL.
7. ALL EXPOSED FIXTURE P-TRAPS WITHIN THE BUILDING AND ABOVE FLOOR SHALL BE CHROME PLATED ADJUSTABLE, HEAVY CAST BRASS WITH CLEANOUT PLUG, SLIP NUTS, AND 17 GAUGE SEAMLESS TUBULAR BRASS DRAIN TO WALL WITH WALL FLANGE. MCGUIRE MANUFACTURING OR PRE-APPROVED EQUAL.
8. EACH FIXTURE TRAP SHALL HAVE A LIQUID SEAL OF NOT LESS THAN 2 INCHES AND NOT MORE THAN 4 INCHES, EXCEPT WHERE A DEEPER SEAL IS FOUND NECESSARY BY THE AUTHORITY HAVING JURISDICTION.
9. ALL ROUGH IN OPENINGS SHALL BE FITTED WITH CHROME PLATED SOLID RING TYPE ESCUTCHEON PLATES FITTED TIGHT TO THE PIPE AND FLUSH TO THE WALL.
10. ALL EXPOSED TAILPIECES, P-TRAPS, TRAP ARMS, ASSOCIATED HARDWARE AND ESCUTCHEONS SHALL BE CHROME PLATED.
11. ALL FIXTURES INDICATED AS OR REQUIRED TO BE HANDICAPPED ACCESSIBLE ("ADA" OR "TAS") SHALL BE PROVIDED IN APPROVED TYPES, WITH REQUIRED CONTROLS AND PROVIDED WITH THE REQUIRED HEIGHTS AND CLEARANCES. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONED MOUNTING HEIGHTS AND SPECIFIED CLEARANCE REQUIREMENTS.
12. ALL EXPOSED LAVATORY AND SINK PIPING FOR ACCESSIBLE FIXTURES SHALL BE INSULATED WITH APPROVED, MANUFACTURED MOLDED VINYL COVERS BY TRUEBRO OR APPROVED EQUAL. PROVIDE OFFSET DRAIN FITTINGS WHERE REQUIRED TO ENSURE REQUIRED MINIMUM CLEARANCES.
13. ALL ACCESSIBLE SINKS SHALL BE PROVIDED WITH DRAIN OUTLETS LOCATED ACCORDINGLY TOWARD THE REAR OF BASIN.
14. ENSURE TO ORIENT ALL ACCESSIBLE WATER CLOSET FLUSH OPERATORS ON THE "WIDE" SIDE OF THE FIXTURE ENCLOSURE.
15. SEAL ALL SPACES BETWEEN PLUMBING FIXTURES AND MOUNTING SURFACES WITH WHITE SILICONE CAULK WIPED SMOOTH AND FLUSH WITH FIXTURE.
16. FLOOR DRAINS SHALL BE INSTALLED AT LOW POINTS OF SLOPED FLOORS. CONTRACTOR SHALL FIELD COORDINATE WITH STRUCTURAL TO WITH INTENDED ARCHITECTURAL FLOOR FINISHES TO ENSURE THAT DRAINS ARE LOCATED ACCORDINGLY.
17. PROVIDE A COMPATIBLE WATER FILTER AT EACH ICE MAKING MACHINE.
18. ALL SINKS AND URINALS SHALL BE PROVIDED WITH WALL CLEANOUTS.
19. SHOCK ARRESTORS SHALL CONFORM WITH THE REQUIREMENTS OF ASSE 1010 AND SHALL BE SIZED AND LOCATED PER THE PLUMBING AND DRAINAGE INSTITUTE STANDARD WH-201. PROVIDE ACCESS PANELS SIZED ACCORDINGLY TO ENSURE MAINTENANCE AND REPLACEMENT ACCESS TO ALL SHOCK ARRESTORS. FINAL LOCATIONS AND SIZES OF REQUIRED ACCESS PANELS SHALL BE REVIEWED FOR APPROVAL BY THE ARCHITECT PRIOR TO INSTALLATION.

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PLUMBING GENERAL NOTES

P0.11

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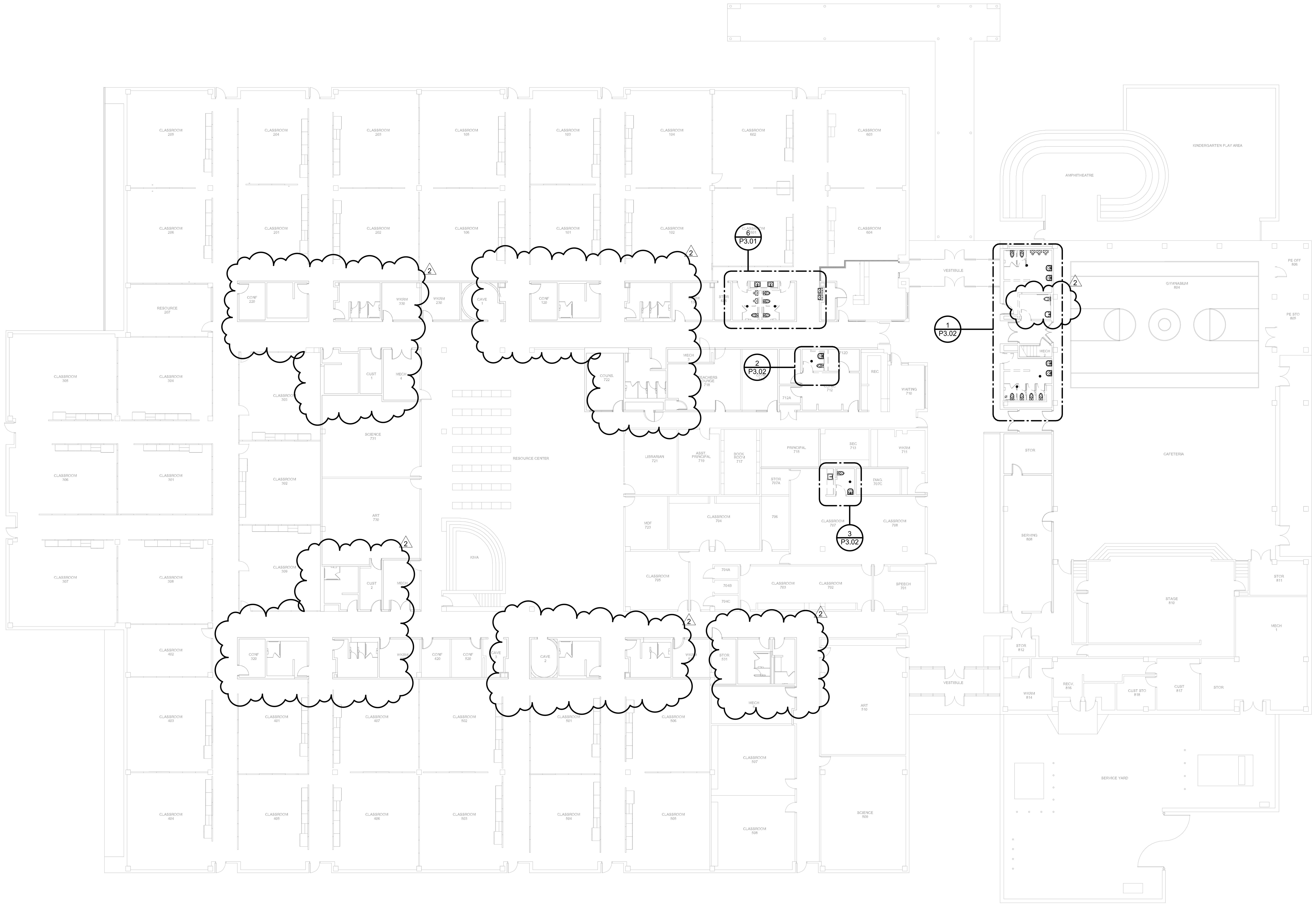

1 LEVEL 01 - DEMOLITION PLUMBING PLAN

1/16" = 1'-0"

TN PN

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P2.11

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1 **LEVEL 01 - PLUMBING PLAN**
1/16" = 1'-0"

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PLUMBING KEYED NOTES

P10.5 REMOVE EXISTING WATER CLOSET. MODIFY EXISTING PLUMBING PIPING FOR NEW WATER CLOSET. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.6 REMOVE EXISTING URINAL. MODIFY EXISTING PLUMBING PIPING FOR NEW URINAL. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

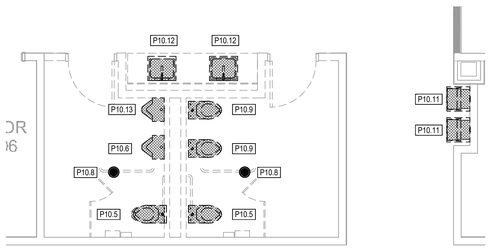
P10.8 APPROXIMATE LOCATION OF EXISTING 3" FLOOR DRAIN; PREPARE FLOOR DRAIN FOR NEW STRAINER AND GRATE. NEW GRATE WILL BE SQUARE IN LIEU OF ROUND, PREPARE SURROUNDING FLOOR AS REQUIRED.

P10.9 REMOVE EXISTING WATER CLOSET IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.11 REMOVE EXISTING DRINKING FOUNTAIN. MODIFY EXISTING PLUMBING PIPING FOR NEW WATER FOUNTAIN. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.12 REMOVE EXISTING LAVATORY IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.13 REMOVE EXISTING URINAL IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.



6 LEVEL 01 - DEMOLITION PLUMBING PLAN - 600 BOYS AND GIRLS

1/4" = 1'-0"

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P3.01

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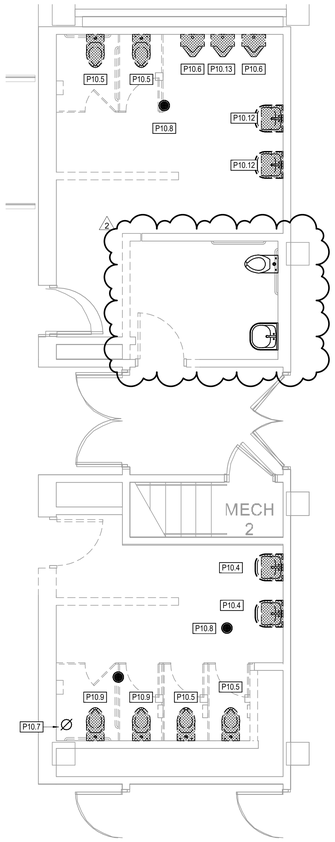
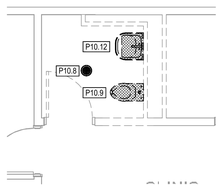
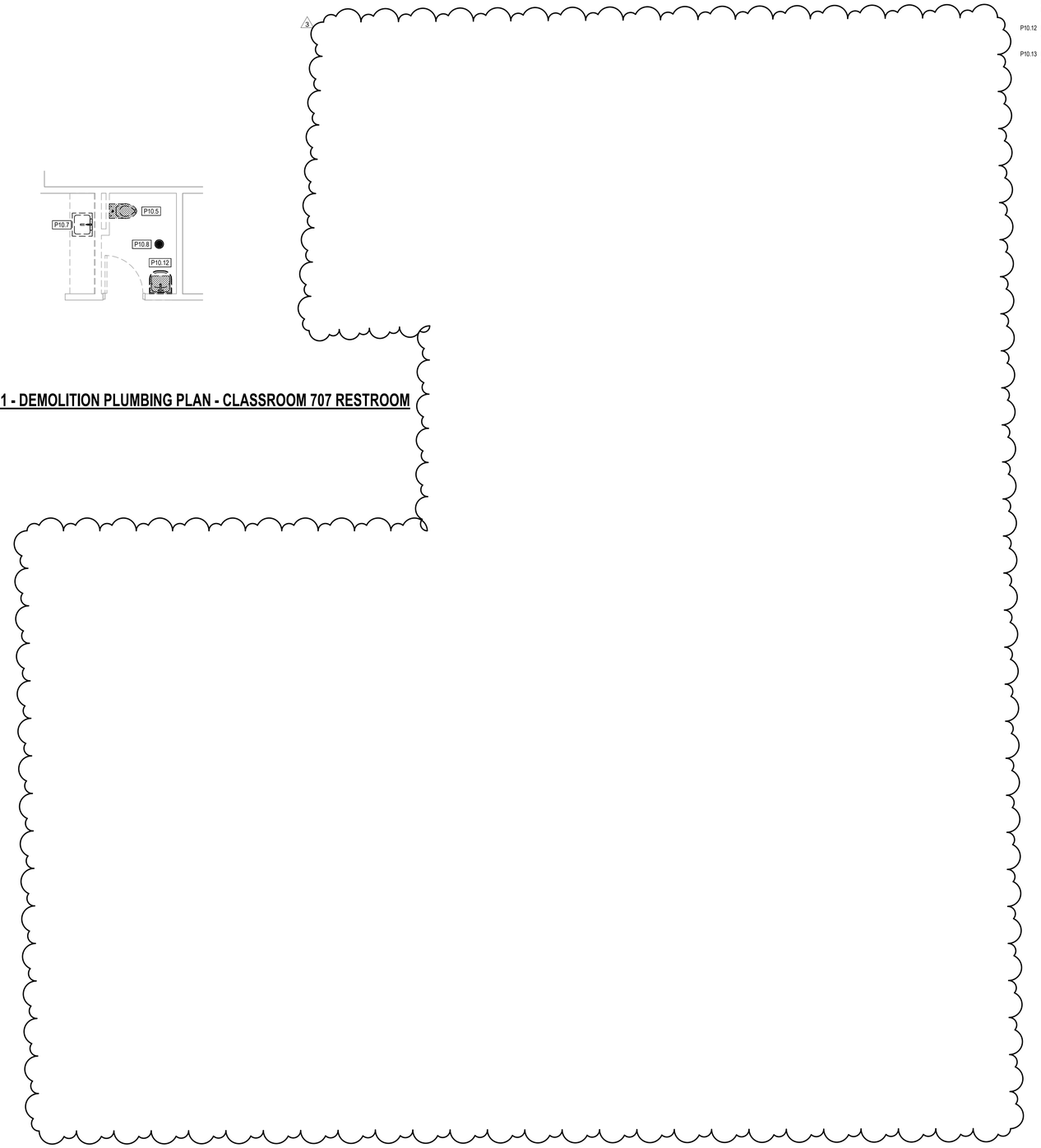


1 LEVEL 01 - DEMOLITION PLUMBING PLAN - GYM RESTROOMS
1/4" = 1'-0"



2 LEVEL 01 - DEMOLITION PLUMBING PLAN - CLINIC RESTROOM
1/4" = 1'-0"

3 LEVEL 01 - DEMOLITION PLUMBING PLAN - CLASSROOM 707 RESTROOM
1/4" = 1'-0"



PLUMBING KEYED NOTES

P10.4 REMOVE EXISTING LAVATORY. MODIFY EXISTING PLUMBING PIPING FOR NEW LAVATORY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.5 REMOVE EXISTING WATER CLOSET. MODIFY EXISTING PLUMBING PIPING FOR NEW WATER CLOSET. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.6 REMOVE EXISTING URINAL. MODIFY EXISTING PLUMBING PIPING FOR NEW URINAL. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.7 EXISTING TO REMAIN.

P10.8 APPROXIMATE LOCATION OF EXISTING 3" FLOOR DRAIN. PREPARE FLOOR DRAIN FOR NEW STRAINER AND GRATE. NEW GRATE WILL BE SQUARE IN LIEU OF ROUND. PREPARE SURROUNDING FLOOR AS REQUIRED.

P10.9 REMOVE EXISTING WATER CLOSET IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.12 REMOVE EXISTING LAVATORY IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.13 REMOVE EXISTING URINAL IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

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P3.02

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PLUMBING KEYED NOTES

P2.3 MODIFY AS REQUIRED AND CONNECT NEW SANITARY WASTE BELOW FLOOR TO EXISTING OF EQUAL OR GREATER SIZE.

P3.2 MODIFY AS REQUIRED AND CONNECT NEW COLD WATER ABOVE CEILING TO EXISTING OF EQUAL OR GREATER SIZE.

P3.6 DROP AND EXTEND 3/4" COLD WATER TO SERVE FIXTURE(S).

P3.10 HOT WATER DROP DOWN TO, RISE UP FROM, AND CIRCULATED HOT WATER LINE INSIDE WALL/CHASE AND WITHIN 2'-0" OF HOT WATER ROUGH-IN TO LAVATORY FOR 2015 IECC COMPLIANCE. SIZE AS NOTED.

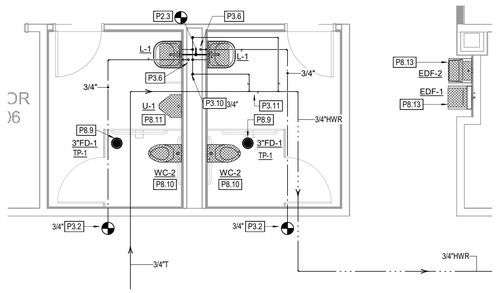
P3.11 PROVIDE NORMALLY CLOSED BYPASS VALVE ON HOT WATER LOOP.

P8.9 REPLACE EXISTING FLOOR DRAIN GRATE AND STRAINER IN SAME LOCATION. FLOOR DRAIN GRATE SHALL BE SQUARE TYPE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION. FLOOR DRAIN LOCATIONS WERE TAKEN FROM EXISTING ENGINEERING DRAWINGS ON FILE.

P8.10 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW WATER CLOSET. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW WATER CLOSET.

P8.11 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW URINAL. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW URINAL.

P8.13 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW DRINKING FOUNTAIN. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE DRINKING FOUNTAIN.



6 LEVEL 01 - PLUMBING PLAN - 600 BOYS AND GIRLS RESTROOMS

1/4" = 1'-0"

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P3.03

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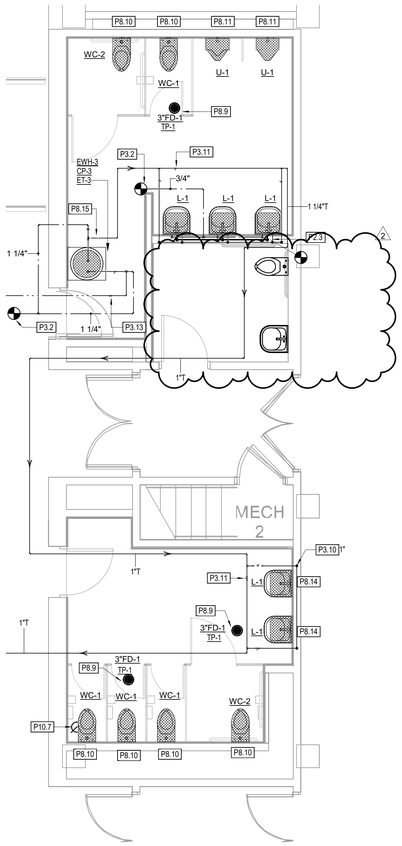
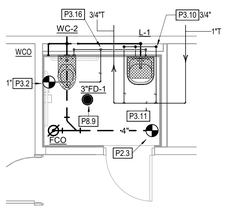


1 LEVEL 01 - PLUMBING PLAN - GYM RESTROOMS

1/4" = 1'-0"

3 LEVEL 01 - PLUMBING PLAN - CLASSROOM 707 RESTROOM

1/4" = 1'-0"



2 LEVEL 01 - PLUMBING PLAN - CLINIC RESTROOM

1/4" = 1'-0"

PLUMBING KEYED NOTES

P2.3 MODIFY AS REQUIRED AND CONNECT NEW SANITARY WASTE BELOW FLOOR TO EXISTING OF EQUAL OR GREATER SIZE.

P3.2 MODIFY AS REQUIRED AND CONNECT NEW COLD WATER ABOVE CEILING TO EXISTING OF EQUAL OR GREATER SIZE.

P3.10 HOT WATER DROP DOWN TO, RISE UP FROM, AND CIRCULATED HOT WATER LINE INSIDE WALL/CHASE AND WITHIN 2'-0" OF HOT WATER ROUGH-IN TO LAVATORY FOR 2015 IECC COMPLIANCE. SIZE AS NOTED.

P3.11 PROVIDE NORMALLY CLOSED BYPASS VALVE ON HOT WATER LOOP.

P3.13 HOT WATER RETURN BALANCING VALVE. SET TEMP AND FLOW AS SHOWN IN DRAWINGS.

P3.16 DROP AND EXTEND 1" COLD WATER TO SERVE FIXTURE(S).

P8.9 REPLACE EXISTING FLOOR DRAIN GRATE AND STRAINER IN SAME LOCATION. FLOOR DRAIN GRATE SHALL BE SQUARE TYPE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION. FLOOR DRAIN LOCATIONS WERE TAKEN FROM EXISTING ENGINEERING DRAWINGS ON FILE.

P8.10 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW WATER CLOSET. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW WATER CLOSET.

P8.11 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW URINAL. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW URINAL.

P8.14 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW LAVATORY/LAVATORIES. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW LAVATORY/LAVATORIES.

P8.15 PROVIDE (TMV-1) HYDROGUARD SERIES LFLM490 THERMOSTATIC TEMPERING VALVE FOR HOT WATER DISTRIBUTION.

P10.7 EXISTING TO REMAIN.

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LEVEL 01 - PLUMBING PLAN - ENLARGED

P3.04

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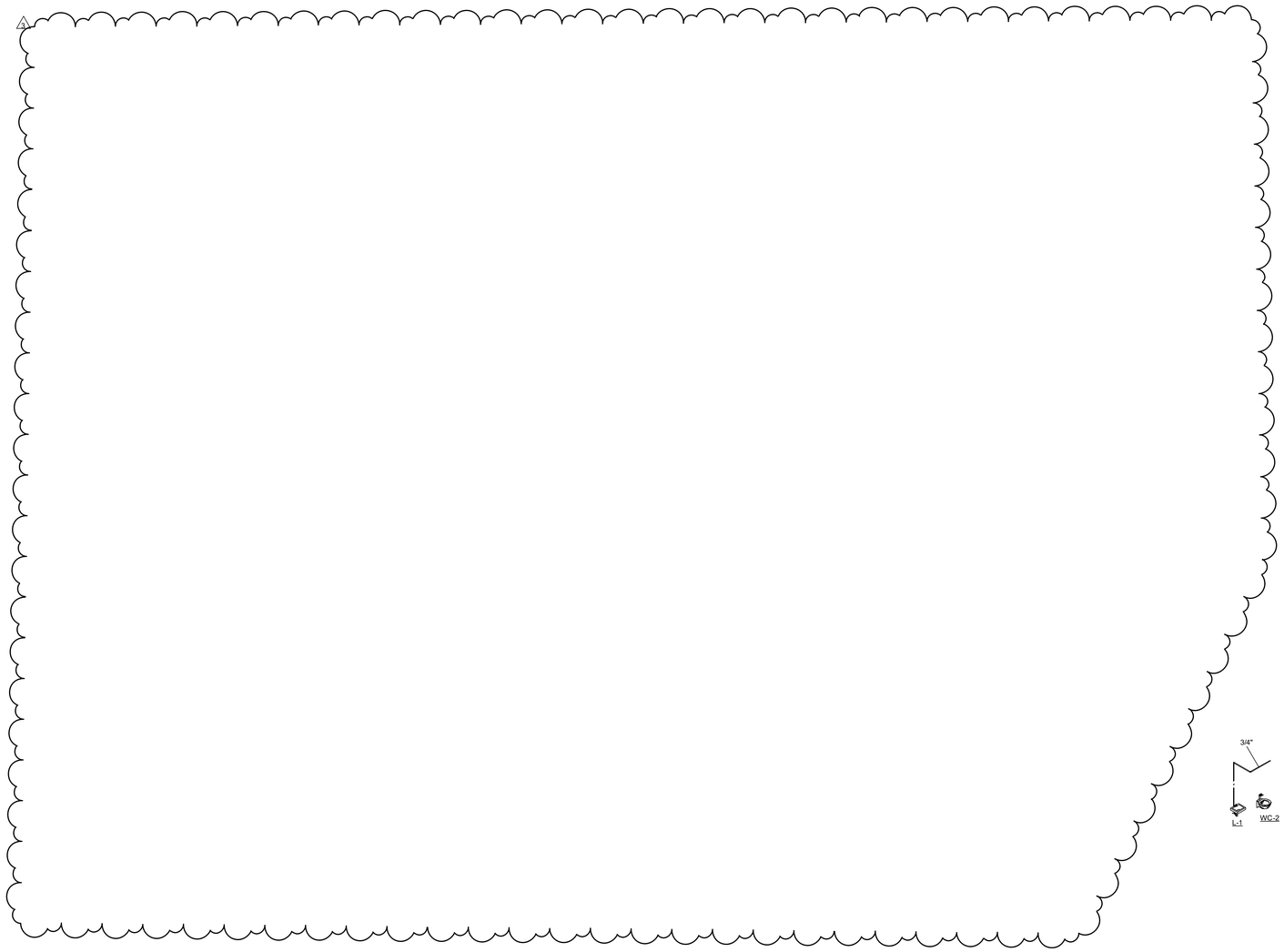

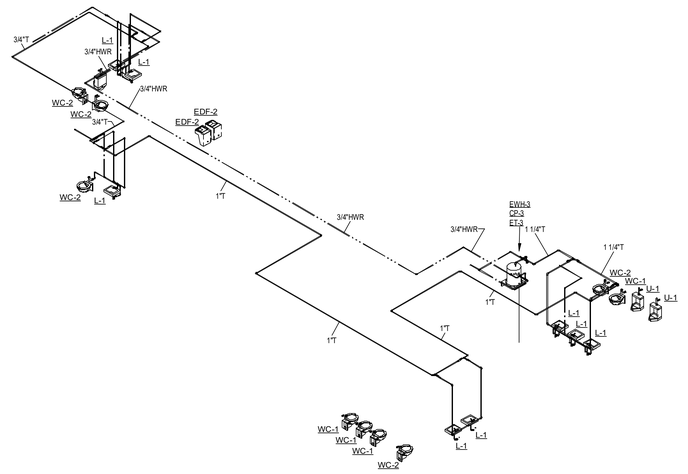

1 **RISER - WATER**

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PLUMBING RISERS

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PLUMBING FIXTURE SCHEDULE

PLAN MARK	MINIMUM ROUGH-IN SIZES					DESCRIPTION
	WASTE & VENT		DRAIN	CW	HW	
WATER CLOSET WC-1	4"	2"	4"	1-1/2"	---	AMERICAN STANDARD No. 2257.101 "AFWALL" WHITE V.C. ELONGATED SIPHON JET WALL HUNG (1.28 GPF) BOWL WITH TOP SPUD
FLUSH VALVE						SLOAN REGAL No. 111-1.28 FLUSH VALVE LOW CONSUMPTION (MANUAL) VALVE. POLISHED CHROME FINISH.
ACCESSORIES						BEMIS 1655-SSICT EXTRA HEAVY DUTY TOILET SEAT, BLACK,ELONGATED BOWL, OPEN SEAT LESS COVER WITH SELF-SUSTAINING, STAINLESS STEEL CHECK HINGE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CARRIER. FOR FULL DESCRIPTION REFER TO PROJECT SPECIFICATIONS. REFER TO ARCHITECTS PLANS FOR ADA MOUNTING HEIGHT.
WATER CLOSET WC-2 ADA	4"	2"	4"	1-1/2"	---	AMERICAN STANDARD No. 2257.101"AFWALL" SAME AS ABOVE EXCEPT WITH TRIM AS REQUIRED FOR ADA USE. REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT.
URINAL U-1 ADA	2"	2"	2"	3/4"	---	AMERICAN STANDARD No. 6590.001 "WASHBROOK" WHITE V.C. WASHOUT FIXTURE (0.125 GPF) WITH WALL HANGERS, MOUNTING BRACKET, CHROME FINISH BEEHIVE STRAINER, TOP SPUD
FLUSH VALVE						SLOAN REGAL No. 111-0.5 FLUSH VALVE LOW CONSUMPTION (MANUAL) VALVE. POLISHED CHROME FINISH.
ACCESSORIES						PROVIDE ZURN OR EQUAL FLOOR MOUNTED CARRIER. FOR FULL DESCRIPTION REFER TO PROJECT SPECIFICATIONS, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT.
LAVATORY L-1 WALL MOUNT - ADA	2"	2"	1-1/4"	3/4"	3/4"	AMERICAN STANDARD LUCERNE 0356.421 WALL HUNG LAVATORY WITH FRONT OVERFLOW AND FAUCET HOLES DRILLED ON 4" CENTERS, WHITE VITREOUS CHINA.
FAUCET						CHICAGO No. 802-VE280S-317ABCP (0.5 GPM) CENTERSET FAUCET WITH VANDAL PROOF WRIST BLADE HANDLES.
ACCESSORIES						REFER TO PLUMBING SUPPLIES AND TRIM SCHEDULE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS.
ELECTRIC DRINKING FOUNTAIN EDF-1 ADA (LOWSIDE)	2"	2"	1-1/4"	3/4"	---	HALSEY TAYLOR No. HTHB-HACG8SS-WF BOTTLE FILLING STATION & SINGLE COOLER FILTERED REFRIGERATED STAINLESS, CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50° F DRINKING WATER, BASED ON 80° F INLET WATER AND 90° F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE FILTERED, GREEN TICKER, LAMINAR FLOW, REAL DRAIN, VANDAL RESISTANT, VISUAL FILTER MONITOR. FURNISHED WITH VANDAL RESISTANT BUBBLER. ELECTRONIC BOTTLE FILLER BUTTON WITH MECHANICAL FRONT BUBBLER BUTTON ACTIVATION. PRODUCT SHALL BE WALL MOUNT (ON WALL), FOR INDOOR APPLICATIONS, SERVING 1 STATION(S). UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120.
ELECTRICAL REQUIREMENTS						1/5 HP, 4.0 FL. AMPS. WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS.
ACCESSORIES						REFER TO PLUMBING SUPPLY AND TRIM SCHEDULE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS.
ELECTRIC DRINKING FOUNTAIN EDF-2 (HIGHSIDE)	2"	2"	1-1/4"	3/4"	---	HALSEY TAYLOR No. HACBSS-WF WALL MOUNT ADA COOLER FILTERED 8.0 GPH STAINLESS, CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50° F DRINKING WATER, BASED ON 80° F INLET WATER AND 90° F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE FILTERED, FURNISHED WITH DOUBLE BUBBLER, MECHANICAL FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION. PRODUCT SHALL BE WALL MOUNT (ON WALL), FOR INDOOR APPLICATIONS, SERVING 1 STATION(S). UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120.
ELECTRICAL REQUIREMENTS						1/5 HP, 4.0 FL. AMPS. WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS.
ACCESSORIES						REFER TO PLUMBING SUPPLY AND TRIM SCHEDULE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS.
ELECTRIC DRINKING FOUNTAIN EDF-3 ADA (HIGHSIDE)	2"	2"	1-1/4"	3/4"	---	HALSEY TAYLOR No. HTHB-HACG8SS-WF BOTTLE FILLING STATION & SINGLE COOLER FILTERED REFRIGERATED STAINLESS, CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50° F DRINKING WATER, BASED ON 80° F INLET WATER AND 90° F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE FILTERED, GREEN TICKER, LAMINAR FLOW, REAL DRAIN, VANDAL RESISTANT, VISUAL FILTER MONITOR. FURNISHED WITH VANDAL RESISTANT BUBBLER. ELECTRONIC BOTTLE FILLER BUTTON WITH MECHANICAL FRONT BUBBLER BUTTON ACTIVATION. PRODUCT SHALL BE WALL MOUNT (ON WALL), FOR INDOOR APPLICATIONS, SERVING 1 STATION(S). UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120.
ELECTRICAL REQUIREMENTS						1/5 HP, 4.0 FL. AMPS. WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS.
ACCESSORIES						REFER TO PLUMBING SUPPLY AND TRIM SCHEDULE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS.

* - REFER TO DRAWINGS FOR SIZING.
GENERAL NOTES:
1. FOR ALL SUPPLY STOPS AND TRIM REFER TO THE PLUMBING FIXTURE SUPPLIES AND TRIM SCHEDULE.
2. FOR MOUNTING HEIGHTS OF INDIVIDUAL FIXTURES, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
3. CONTRACTOR TO COORDINATE LOCATION OF DRAINS AND FLOOR SINKS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

PLUMBING FIXTURE SUPPLIES AND TRIM

FIXTURE	MANUFACTURER	STRAINER	P-TRAP	SIZE	ANGLE STOP AND SUPPLY RISER
LAVATORY	McGUIRE	HD155A	8872	1-1/4"	LFBV2165-LK, 1/2" I.P.S. X 3/8" O.D.
DRINKING FOUNTAIN	McGUIRE	HD155A	8872	1-1/4"	LFBV2165-LK, 1/2" I.P.S. X 3/8" O.D.
SINK	McGUIRE	152N	8912	1-1/2"	LFBV2165-LK, 1/2" I.P.S. X 3/8" O.D.
2 COMPARTMENT SINK, NO DISPENSER	McGUIRE	(2) 152N WITH CONTINUOUS WASTE 111C16G17	8912	1-1/2"	LFBV2165-LK, 1/2" I.P.S. X 3/8" O.D.

NOTE:

1. STRAINERS SHALL BE HEAVY CAST BRASS CHROME PLATED WITH MATCHING GRID TYPE STRAINER, WITH OR WITHOUT OVERFLOW AS REQUIRED. 17 GAUGE SEAMLESS BRASS TAILPIECE OF LENGTH DETERMINED BY INSTALLATION REQUIREMENTS. PROVIDE COMPLETE WITH WASHERS AND BRASS LOCKNUT.

2. P-TRAPS SHALL BE 17 GAUGE SEAMLESS CHROME-PLATED BRASS, ADJUSTABLE TYPE. PROVIDE COMPLETE WITH CLEANOUT PLUG, CHROME-PLATED BRASS SLIP NUTS, WALL BEND, AND WROUGHT BRASS ESCUTCHEON OF DEPTH DETERMINED BY INSTALLATION REQUIREMENTS.

3. ANGLE STOPS SHALL BE LEAD-FREE COMMERCIAL PATTERN CHROME-PLATED BRASS, QUARTER-TURN BALL TYPE WITH LOOSE KEY HANDLES. PROVIDE COMPLETE WITH CHROME-PLATED COPPER SUPPLY RISERS AND WROUGHT BRASS ESCUTCHEON OF DEPTH DETERMINED BY INSTALLATION REQUIREMENTS.

4. PIPE TRIM INSULATION SHALL BE COMPLIANT, WHITE MOLDED VINYL, FADE/DISCOLORATION-RESISTANT, BACTERIA/FUNGAL-RESISTANT INSULATION.
5. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CARRIER.

PLUMBING FIXTURE SCHEDULE

PLAN MARK	MINIMUM ROUGH-IN SIZES					DESCRIPTION
	WASTE & VENT		DRAIN	CW	HW	
THERMOSTATIC MIXING VALVE TMV-1	---	---	---	1/2"	1/2"	POWERS WATTS MODEL: LFLM490 LEAD FREE THERMOSTATIC MIXING VALVE. ASSE 1070 WITH INLET CHECK STOPS TO LIMIT HOT WATER TEMPERATURE. SET TEMPERATURE AT 110°. PROVIDE WITH MOUNTING BRACKET.
FLOOR DRAIN FD-1	3"	2"	3"	---	---	ZURN No. ZN-415 CAST IRON DRAIN WITH 6" DIAMETER TYPE "B" STRAINER AND 1/2" IPS TRAP PRIMER CONNECTION. FOR FLOOR DRAIN BODY POURED IN CONCRETE SLAB PROVIDE ZURN Z1023 TRAP PRIMER EXTENSION.
TRAP PRIMER TP-1	---	---	---	1/2"	---	PRECISION PLUMBING PRODUCTS, INC. FLUSH VALVE PRIMER No. FVP-1VB WITH VACUUM BREAKER TRAP REFILL SUPPLY. CONTRACTOR TO INSTALL PRIMER ON NEAREST WATER CLOSET TO FLOOR DRAIN SUPPLIED. ALL EXPOSED PIPING SHALL BE CHROME PLATED AND CONCEALED SUPPLY TUBING SHALL BE 1/2" TYPE "K" SOFT COPPER.
WALL CLEANOUT WCO	---	---	---	---	---	ZURN No. ZN-1440 DURO-COATED CAST IRON CLEANOUT TEE WITH COUNTER-SUNK GASKET, WATERTIGHT THREADED PLUG AND ZURN 1460 SQUARE SMOOTH ACCESS COVER WITH VANDAL PROOF SCREWS.
FLOOR CLEANOUT FCO	---	---	---	---	---	ZURN No ZN-1400 CAST IRON CLEANOUT WITH COUNTER-SUNK PLUG AND ROUND SCORIATED TOP FOR GENERAL PURPOSE AREAS. PROVIDE VARIATION AS REQUIRED FOR FLOOR FINISH WHERE INSTALLED. SEE ARCHITECT DWG'S FOR FLOOR TYPES.
GRADE CLEANOUT GCO	---	---	---	---	---	ZURN No. Z-1402 DURO-COATED CAST IRON CLEANOUT WITH WATERTIGHT COUNTER-SUNK PLUG AND SCORIATED SECURED TOP WITH FRAME. INSTALL IN 18"x18"x6" THICK CONCRETE PAD.

* - REFER TO DRAWINGS FOR SIZING.
GENERAL NOTES:
1. FOR ALL SUPPLY STOPS AND TRIM REFER TO THE PLUMBING FIXTURE SUPPLIES AND TRIM SCHEDULE.
2. FOR MOUNTING HEIGHTS OF INDIVIDUAL FIXTURES, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
3. CONTRACTOR TO COORDINATE LOCATION OF DRAINS AND FLOOR SINKS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

ELECTRIC WATER HEATER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL #	TYPE	FUEL	GALLONS	HEATING LOAD (BTU/hr)	CW INLET	HW OUTLET	GPH RECOVERY @ 80° TEMP RISE	STANDBY LOSS (%/hour)	ELECTRICAL REQUIREMENTS			
											VOLTS (V)	PHASE	KW	AMPS
ELECTRIC WATER HEATER EWH-3	A.O. SMITH	DEL-40	STORAGE TANK	ELECTRIC	40	13,649	1-1/4"	1-1/4"	20	0.87	480	3	4.0	4.8

NOTES:
1. FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS, VERIFY WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

PLAN MARK	MANUFACTURER	MODEL #	DESCRIPTION	ELECTRICAL REQUIREMENTS			
				VOLTS (V)	PHASE	KW	HP
CIRCULATION PUMP CP-3 (EWH-3)	GRUNDFOS	MAGNA3 32-60	ALL STAINLESS STEEL FLANGED PUMP, 1/25 HP WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS AND FITTED WITH REMOTE HEAT SENSING AQUASTAT CONTROLLER. CONTROLLED BY ELECTRICAL CONTRACTOR, DESIGNED AT 15 FT HEAD LOSS.	115	1	85 W	0.04
THERMAL EXPANSION TANK ET-3	AMTROL	THERM-X-TROL MODEL ST-5-C	ASME THERMAL EXPANSION ABSORBERS, SAFETY RELIEF VALVE, MAXIMUM WORKING PRESSURE 150 PSIG, TOTAL VOLUME 2.0 GALLONS.	--	--	--	--

PIPING MATERIAL SCHEDULE

PIPING SYSTEM	PIPING MATERIAL
DOMESTIC HOT& COLD WATER PIPING, WITHIN BUILDING BELOW GRADE	COPPER TUBING: ASTM B88, TYPE K, SOFT ANNEALED
DOMESTIC HOT& COLD WATER PIPING, WITHIN BUILDING ABOVE GRADE	COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN.
SANITARY SOIL, WASTE AND VENT PIPING, BURIED WITHIN 5 FT OF BUILDING, BELOW GRADE	NEWAGE EPOXY COATED CAST IRON PIPE
SANITARY SOIL, WASTE AND VENT PIPING, WITHIN BUILDING, ABOVE GRADE	NEWAGE EPOXY COATED CAST IRON PIPE
GENERAL NOTES: 1. REFER TO PROJECT SPECIFICATIONS FOR FURTHER CLARIFICATION AND COMPLETE PIPING DESCRIPTION.	

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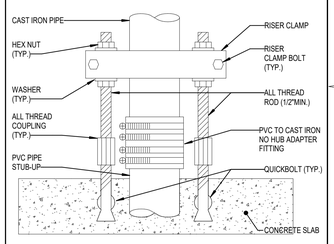
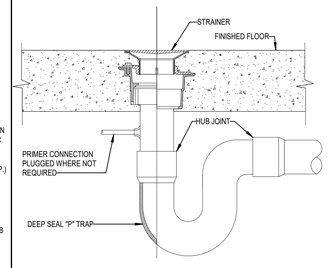
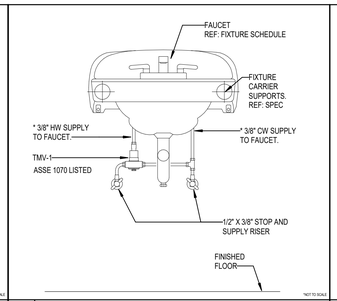


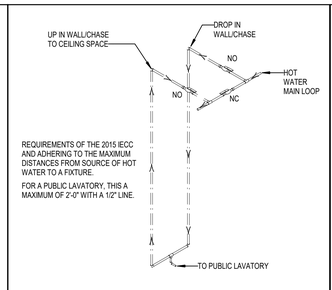
1 PVC TO CAST IRON SUPPORT P1006



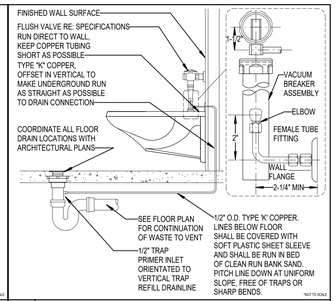
2 FLOOR DRAIN P1004



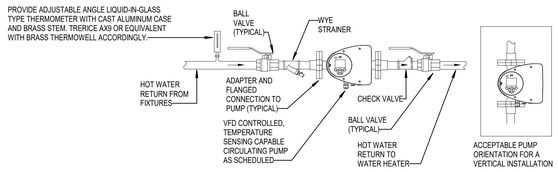
3 TMV-1 INSTALLATION P1704



4 HOT WATER LOOP W/BYPASS P1992



5 TRAP PRIMER P1920

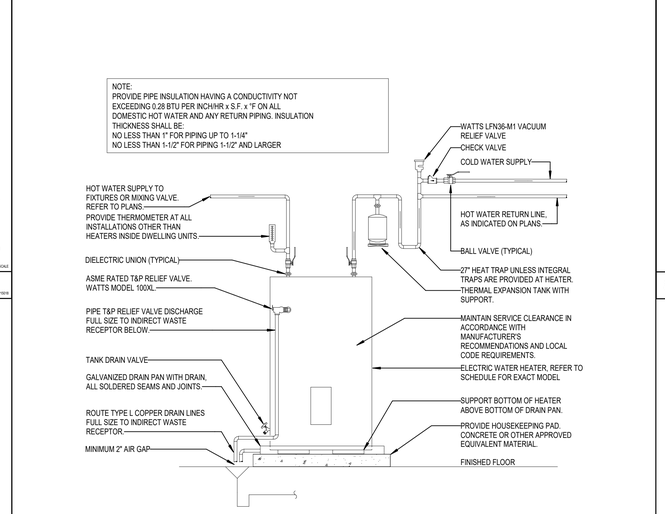


NOTES

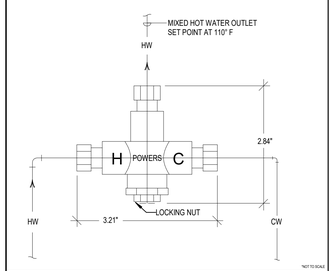
1. MOUNT PUMP SECURELY IN AN ACCESSIBLE LOCATION AT 48" A.F.F.
2. ENSURE THERMOMETER IS POSITIONED FOR CLEAR VISIBILITY AND READABILITY FROM A STANDING POSITION AT FLOOR LEVEL.
3. INSULATION IS NOT SHOWN FOR CLARITY BUT SHALL BE PROVIDED AS SPECIFIED.
4. CONTROL BOX SHALL BE ROTATED IN THE FIELD AS NECESSARY PER MANUFACTURER RECOMMENDATIONS TO ENSURE ADEQUATE COOLING. ADDITIONALLY, THE TEMPERATURE OF THE AMBIENT AIR MUST NOT EXCEED 104 DEGREES F.
5. THE PUMP CAN BE INSTALLED IN A HORIZONTAL (AS SHOWN) OR VERTICAL PIPE BUT THE PUMP SHALL ALWAYS BE INSTALLED WITH A HORIZONTAL MOTOR SHAFT. ROTATE PUMP "HEAD" COMPONENT IN THE FIELD AS NECESSARY PER THE MANUFACTURER'S INSTRUCTIONS.
6. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS, THE PUMP SHALL BE SET TO CONSTANT TEMPERATURE CONTROL MODE. THIS MODE SHALL KEEP RETURN PIPE TEMPERATURE CONSTANT AND ALSO LIMIT FLOW TO A MAXIMUM RATE. THE PUMP SHALL AUTOMATICALLY RAMP DOWN WHEN WATER IN THE CIRCULATION LOOP IS AT THE DESIRED TEMPERATURE. REFER TO THE PLANS FOR SYSTEM TEMPERATURE AND FLOW CRITERIA.

NOT TO SCALE

6 DOMESTIC HOT WATER CIRCULATOR PIPING INSTALLATION - VFD CONTROLLED "SMART" PUMP P1919



7 FLOOR MOUNTED ELECTRIC WATER HEATER W/HOT WATER RETURNDETAIL P1800



8 THERMOSTATIC MIXING VALVE P1928

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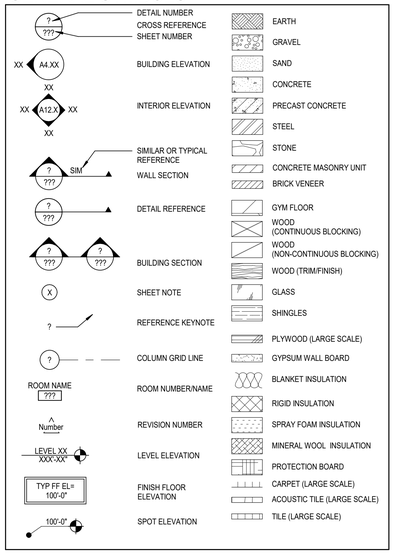
A/E	ARCHITECT/ENGINEER
AB	AIR BARRIER
ABS	ASBESTOS
ACC	ADA ACCESSIBLE
ACR	ACRYLIC
ACT	ACOUSTIC CEILING TILE
AD	ACCESS DOOR
ADJ	ADJUSTABLE
ADJT	ADJACENT
ADMIN	ADMINISTRATION
AED	AUTOMATED EXTERNAL DEFIBRILLATORS
AL	ALUMINUM
ALUM	ALUMINUM
AP	ACCESS PANEL
APC	ACOUSTIC PANEL CEILING
ASPH	ASPHALT
AUTO	AUTOMATIC
AVG	AVERAGE
AWP	ACOUSTIC WALL PANEL
B.O.	BOTTOM OF
BCS	BABY CHANGING STATION
BD	BOARD
BLK	BLOCK
BLKG	BLOCKING
BLKHD	BULKHEAD
BM(S)	BEAM(S)
BOT	BOTTOM
BRDG	BRIDGING
BRG	BEARING
BRKT	BRACKET
BT	BATHTUB
BTWN	BETWEEN
CAB	CABINET
CBD	CHALKBOARD
CER	CERAMIC
CF	CUBIC FEET
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFMF	COLD-FORMED METAL FRAMING
CG	CLEAR FLOAT GLASS
CGD	CORNER GUARD
CI	CAST IRON
CIG	CLEAR INSULATING GLASS
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CJA	CONTROL JOINT ABOVE
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COM	COMMON
COMB	COMBINATION
COMM	COMMUNICATIONS
COMPR	COMPRESSIBLE
CONF	CONFERENCE
CONFIG	CONFIGURATION
CORR	CORRIDOR
CP	COVER PLATE
CPT	CARPET
CR	CHAIR RAIL
CS	COUNTERSINK
CSTJ	CONSTRUCTION JOINT
CSWK	CASEWORK
CT	CERAMIC TILE
CTG	CLEAR TEMPERED FLOAT GLASS
CTIG	CLEAR TEMPERED INSULATING GLASS
CU	COPPER
CU	COMBINATION UNIT
CV	CONDOM VENDOR
CY	CUBIC YARD
CYL	CYLINDER
DB	DECIBEL
DBL	DOUBLE
DC	DUST COLLECTOR
DEPR	DEPRESS(ION)(ED)
DEPT	DEPARTMENT
DET	DETENTION
DF	DRINKING FOUNTAIN
DG	DOOR GRILLE
DIAG	DIAGONAL
DPFG	DAMPROOFING
DR	DOOR
DSN	DOWNSPOUT NOZZLE
DW	DISHWASHER
DWL(S)	DOWEL(S)
DWR	DRAWER
EB	EXPANSION BOLT
EE	EACH END
EEW	EMERGENCY EYE WASH
EEWS	EMERGENCY EYE WASH SHOWER
EFF	EFFICIENCY
EJ	EXPANSION JOINT
ELAS	ELASTOMERIC
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENTR	ENTRANCE
ERF	EPOXY RESIN FLOORING
EUI	ENERGY USE INTENSITY
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXP	EXPANSION
EXP	EXPOSED
F	FABRIC
F.O.	FACE OF
FAB	FABRICATE(D)
FB	FACE BRICK
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIG	FIGURE
FIX	FIXTURE
FLASH	FLASHING
FLEX	FLEXIBLE
FLG	FLOORING
FLM	FULL LENGTH MIRROR
FLUOR	FLUORESCENT
FO	FINISH OPENING
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FP	FIREPROOFING
FPG	FIRE-PROTECTIVE GLASS
FR	FIRE RESISTANT
FRG	FIRE-RESISTIVE GLASS
FRP	FIBERGLASS REINFORCED PANEL
FRT	FIRE RESISTANCE TREATED
FS	FLOOR SINK
FSS	FOLDING SHOWER SEAT
FTG	FOOTING
FVC	FIRE VALVE CABINET
FWC	FABRIC WALL COVERING
G	GROUT
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GD	GARBAGE DISPOSAL
GEN	GENERAL
GFA	GROSS FLOOR AREA
GL	GLUE LAMINATED
GL	GLASS
GMP	GUARANTEED MAXIMUM PRICE
GR	GUARD RAIL
GR	GRADE
GRS	GALVANIZED RIGID STEEL
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HC	HOLLOW CORE
HD	HAND DRYER
HDF	HIGH DENSITY FIBERBOARD
HDR	HEADER
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HR	HOUR
HR	HANDRAIL
HS	HARDWARE SET
HSS	HOLLOW STRUCTURAL SHAPE
HVAC	HEATING VENTILATING AND AIR CONDITIONING
IAW	IN ACCORDANCE WITH
ID	INSIDE DIAMETER
IF	INSIDE FACE
IIP	INSULATED INFILL PANEL GLASS
IJ	ISOLATION JOINT
IJS	IN JOIST SPACE
INC	INCLUDE(ING)
INSUL	INSULATION
JAN	JANITOR
JBE	JOIST BEARING ELEVATION
JBX	JUNCTION BOX
JCT	JUNCTION
JFB	JOINT FILLER BOARD
JST	JOIST
JT	JOINT
KCJ	KEYED CONSTRUCTION JOINT
KD	KNOCKDOWN
KH	KITCHEN HOOD
KIT	KITCHEN
L	ANGLE
LAB	LABORATORY
LAM	LAMINATED
LAV	LAVATORY
LBR	LUMBER
LDG	LOADING
LF	LINEAR FOOT
LG	LENGTH (LONG)
LG	LAMINATED GLASS
LIN	LINEAR
LINO	LINOLEUM
LKR	LOCKER
LOC	LOCATION
LONG	LONGITUDINAL
LSC	LIFE SAFETY CODE
LTG	LIGHTING
LV	LOUVER
LVT	LUXURY VINYL TILE
MAG	MAGNETIC
MAINT	MAINTENANCE
MAN	MANUAL
MAS	MASONRY
MATL	MATERIAL
MB	MOP BASIN
MBD	MARKER BOARD
MBH	MOP/BROOM HOLDER
MC	MEDICINE CABINET
MEMB	MEMBRANE
MH	MANHOLE
MRS	MIRROR WITH SHELF
MTD	MOUNTED
MTG	MOUNTING
MUL	MULLION
NC	NOISE CRITERIA
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NOM	NOMINAL
O to O	OUT TO OUT
OA	OVERALL
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OPPOSITE HAND
OPG(S)	OPENING(S)
OSHA	OPERATIONAL SAFETY AND HEALTH ADMINISTRATION
OTB	OPEN TO BELOW
OVFL	OVERFLOW
P	PAINT
PAN B	PANIC BOLT
PB	PARTICLE BOARD
PC	PRECAST CONCRETE
PCD	PAPER CUP DISPENSER
PCT	PORCELAIN CERAMIC TILE
PD	PANIC DEVICE
PERF	PERFORATED
PERP	PERPENDICULAR
PG	PATTERN GLASS
PIC	PORTABLE INSTRUMENT CONNECTION
PIG	PATTERN INSULATING GLASS
PL	PLATE
PL	PROPERTY LINE
PL	PLASTIC LAMINATE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PR	PAIR
PREFAB	PREFABRICATED
PROJ	PROJECT(OR) (ION)
PS	PROJECTION SCREEN
PT	POINT
PT	POINT OF TANGENCY
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PWL	SOUND POWER LEVEL
QGV	QUAD GAS VALVE
QT	QUARRY TILE
QTR RND	QUARTER ROUND
R	RISER
RAD	RADIUS
RB	RUBBER BASE
RC	REMOTE CONTROL
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REFL	REFLECTED
REM	REMOVABLE
RESIL	RESILIENT
RF	RESILIENT FLOORING
RF	RUBBER FLOORING
RFM	RECESSED FLOOR MAT
RH	ROBE HOOK
RI&C	ROUGH IN AND CONNECT
S	SINK
SAT	SPRAYED ACOUSTIC TREATMENT
SAW	SOUND ABSORBING WALL UNITS
SB	SPLASH BLOCK
SC	SOLID CORE
SC	SHOWER CURTAIN
SCD	SEAT COVER DISPENSER
SCH	SHOWER CURTAIN HOOK
SCR	SHOWER CURTAIN ROD
SCT	STRUCTURAL CLAY TILE
SD	SOAP DISPENSER
SECY	SECRETARY
SF	SQUARE FEET
SG	SPANDREL GLASS
SG	SPECIALTY GLASS
SGL	SINGLE
SGV	SINGLE GAS VALVE
SH	SHOWER
SHM	SECURITY HOLLOW METAL
SLNT	SEALANT
SM	SHEET METAL
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SO	SENSOR OPERATED
SPL	SOUND PRESSURE LEVEL
SQ	SQUARE
SR	SURFACE MOUNTED ELECTRICAL RACEWAY
SS	SOLID SURFACE
SSA	STORM SHELTER AREA
SSM	SOLID SURFACE
SSS	STAINLESS STEEL SHELF
SST	STAINLESS STEEL
ST	STONE
ST	STAIR
STAG'D	STAGGERED
STC	SOUND TRANSMISSION CLASS
STGR	STRINGER
SUBFL	SUBFLOOR
SUL	SULPHUR
SURF	SURFACE
SUSP	SUSPENDED
SVF	SHEET VINYL FLOORING
SVF	SERVICE FIXTURE
SVG	SERVICE FIXTURE GROUP
T	TREAD
T&G	TONGUE AND GROOVE
T.O.	TOP OF
TAN	TANGENT
TB	TOWEL BAR
TBD	TACK BOARD
TCP	TOILET COMPARTMENT PARTITION
TERR	TERRAZZO
TFG	TINTED FLOAT GLASS
TG	TEMPERED GLASS
TH	THRESHOLD
THK	THICK(NESS)
TI	TENANT IMPROVEMENT
TIG	TINTED INSULATING GLASS
TMR	TILT MIRROR UNIT
TOIL	TOILET
TOP	TOP OF PAVING
TRANS	TRANSVERSE
TT	TERRAZZO TILE
TTD	TOILET TISSUE DISPENSER
TTG	TINTED TEMPERED FLOAT GLASS
TTIG	TINTED TEMPERED INSULATING GLASS
TW	TACK WALL
UL	UNDERWRITERS LABORATORIES
UR	URINAL
US	UTILITY SHELF
UTIL	UTILITY
VB	VAPOR BARRIER
VB	VINYL BASE
VCB	VENTED COVE BASE
VF	VINYL FLOOR
VOC	VOLITILE ORGANIC COMPOUND
VOL	VOLUME
VP	VENEER PLASTER
VT	VINYL TILE
VWC	VINYL WALL COVERING
W	WIDE
WB	WALL BASE
WC	WATER CLOSET
WC	WALL COVERING
WCL	WATER CLOSET/LAVATORY COMBINATION
WD	WOOD
WDF	WOOD FLOORING
WDW	WINDOW
WG	POLISHED WIRE GLASS
WI	WROUGHT IRON
WOM	WALK OFF MAT
WR	WASTE RECEPTACLE
WRB	WEATHER RESISTANT BARRIER
WW	WARM WHITE
WWF	WELDED WIRE FABRIC
YD	YARD

GENERAL SYMBOLS



PROJECT DESCRIPTION

THE SCOPE OF THIS PROJECT IS AN INTERIOR IMPROVEMENT OF SELECT EXISTING RESTROOMS WITHIN AN EXISTING ELEMENTARY SCHOOL. WORK TO INCLUDE NEW WALLS, CEILINGS, DOORS, MILLWORK AND FINISHES; WITH SOME MECHANICAL, ELECTRICAL AND PLUMBING ADJUSTMENTS.

NO CHANGE TO OCCUPANCY TYPE.

TABB: 2025018383

APPLICABLE CODES/GUIDELINES

APPLICABLE CODES & REGULATIONS:

GOVERNING AHJ: A. CITY OF HOUSTON
B. STATE OF TEXAS

A. CITY & STATE LEVEL GOVERNING CODES & REGULATIONS:

BUILDING:	2021 INTERNATIONAL BUILDING CODE (IBC) 2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
ENERGY:	2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
FIRE PROTECTION:	2021 FIRE CODE (INTERNATIONAL FIRE CODE)
PLUMBING:	2021 INTERNATIONAL PLUMBING CODE (UPC)
MECHANICAL:	2021 INTERNATIONAL MECHANICAL CODE (UMC)
FUEL/GAS:	2021 INTERNATIONAL FUEL GAS CODE (IFGC)
ELECTRICAL:	2023 INTERNATIONAL ELECTRICAL CODE (NEC)
ACCESSIBILITY:	2012 TEXAS ACCESSIBILITY STANDARDS (TAS) TDLR COMPLIANCE FOR ELIMINATOIN OF ARCHITECTURAL BARRIERS
TEA:	TEXAS EDUCATION AGENCY (TEA) RULES APPLY FOR SCHOOL FACILITIES STANDARDS, INCLUDING SPACE REQUIREMENTS
HEALTH & SAFETY:	TEXAS HEALTH AND SAFETY CODES GOVERNING HEALTH AND SANITATION REQUIREMENTS FOR SCHOOL FACILITIES; INCLUDING FOOD SERVICE AREAS AND WATER QUANTITY STANDARDS

DEFERRED SUBMITTALS

MODIFICATIONS TO THE EXISTING SPRINKLERS AND FIRE ALARMS SHALL BE SUBMITTED AND PERMITTED SEPARATELY, PRIOR TO THEIR MODIFICATIONS.

PROJECT TEAM

CLIENT: **ALIEF INDEPENDENT SCHOOL DISTRICT**
4250 COOK ROAD
HOUSTON, TX 77072
ATTN: JESSE GONZALEZ; JESSE.GONZALEZ@ALIEFISD.NET

ARCHITECT: **DLR GROUP**
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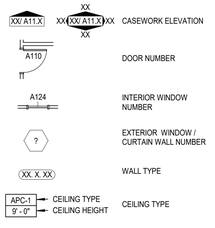
HOUSTON, TX 77002
ATTN: AJ SUSTAITA; ASUSTAITA@DLRGROUP.COM

MEP: DBR INC
9990 RICHMOND AVE, SUITE 300
HOUSTON, TX 77042
ATTN: BRENT MOE; BMOE@DBRINC.COM

ARCHITECTURAL SYMBOLS



SMITH ELEMENTARY

ALIEF INDEPENDENT SCHOOL DISTRICT - PACKAGE I

11300 STANCLIFF RD
HOUSTON, TEXAS 77099

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MAY 6, 2025

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SMITH E.S. - RESTROOM RENOVATIONS
ALIEF INDEPENDENT SCHOOL DISTRICT
11300 STANCLIFF RD
HOUSTON, TX 77099

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1 ADD 1 06-16-25 COH COMMENTS
3 ADD 5 10-31-25 CLIENT VE
4 6 02-11-26 ISSUE FOR BID & PERMIT

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COVER SHEET

G0.1

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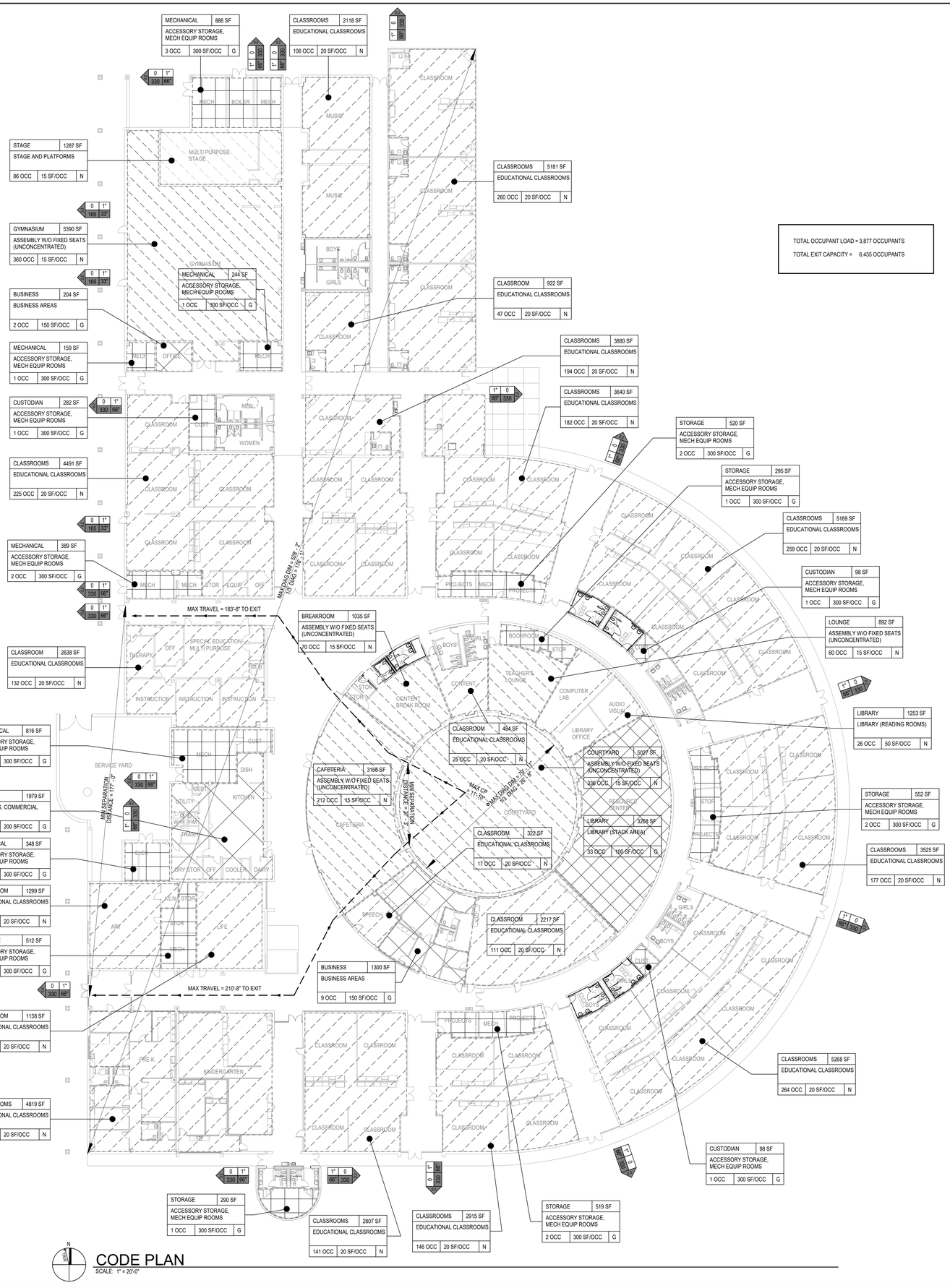
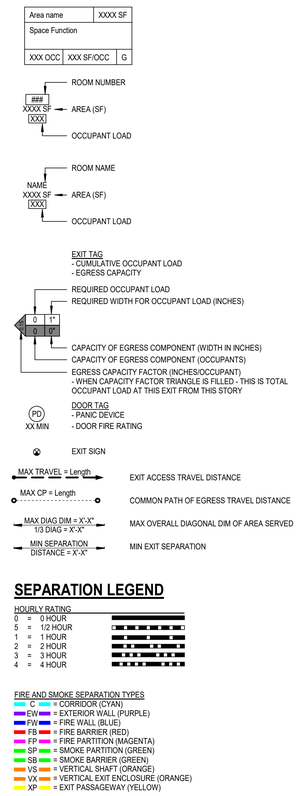


Area/Occupant Load Schedule (Code Analysis)				
Name	Function of Space	Area	Occupancy Load Factor	OLF
CLASSROOM	(none)	Not Placed		
Area	(none)	Not Placed		
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	886 SF	300	3
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	159 SF	300	1
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	244 SF	300	1
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	389 SF	300	2
CUSTODIAN	ACCESSORY STORAGE, MECH EQUIP ROOMS	282 SF	300	1
MECHANICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	816 SF	300	3
ELECTRICAL	ACCESSORY STORAGE, MECH EQUIP ROOMS	348 SF	300	2
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	512 SF	300	2
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	290 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	519 SF	300	2
CUSTODIAN	ACCESSORY STORAGE, MECH EQUIP ROOMS	98 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	520 SF	300	2
CUSTODIAN	ACCESSORY STORAGE, MECH EQUIP ROOMS	98 SF	300	1
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	552 SF	300	2
STORAGE	ACCESSORY STORAGE, MECH EQUIP ROOMS	295 SF	300	1
CAFETERIA	ASSEMBLY W/O FIXED SEATS (UNCONCENTRATED)	3166 SF	15	212
GYMNASIUM	ASSEMBLY W/O FIXED SEATS (UNCONCENTRATED)	5390 SF	15	360
BREAKROOM	ASSEMBLY W/O FIXED SEATS (UNCONCENTRATED)	1035 SF	15	69
LOUNGE	ASSEMBLY W/O FIXED SEATS (UNCONCENTRATED)	892 SF	15	60
COURTYARD	ASSEMBLY W/O FIXED SEATS (UNCONCENTRATED)	5027 SF	15	336
BUSINESS	BUSINESS AREAS	204 SF	150	2
BUSINESS	BUSINESS AREAS	1300 SF	150	9
CLASSROOMS	EDUCATIONAL CLASSROOMS	5181 SF	20	260
CLASSROOMS	EDUCATIONAL CLASSROOMS	2118 SF	20	106
CLASSROOM	EDUCATIONAL CLASSROOMS	922 SF	20	47
CLASSROOMS	EDUCATIONAL CLASSROOMS	3880 SF	20	194
CLASSROOMS	EDUCATIONAL CLASSROOMS	3640 SF	20	182
CLASSROOMS	EDUCATIONAL CLASSROOMS	5169 SF	20	259
CLASSROOMS	EDUCATIONAL CLASSROOMS	2915 SF	20	146
CLASSROOMS	EDUCATIONAL CLASSROOMS	5268 SF	20	264
CLASSROOMS	EDUCATIONAL CLASSROOMS	3525 SF	20	177
CLASSROOMS	EDUCATIONAL CLASSROOMS	4491 SF	20	225
CLASSROOMS	EDUCATIONAL CLASSROOMS	2807 SF	20	141
CLASSROOM	EDUCATIONAL CLASSROOMS	2638 SF	20	132
CLASSROOM	EDUCATIONAL CLASSROOMS	1138 SF	20	57
CLASSROOM	EDUCATIONAL CLASSROOMS	1299 SF	20	65
CLASSROOMS	EDUCATIONAL CLASSROOMS	4819 SF	20	241
CLASSROOM	EDUCATIONAL CLASSROOMS	484 SF	20	25
CLASSROOM	EDUCATIONAL CLASSROOMS	2217 SF	20	111
CLASSROOM	EDUCATIONAL CLASSROOMS	322 SF	20	17
KITCHEN	KITCHENS, COMMERCIAL	1979 SF	200	10
LIBRARY	LIBRARY (READING ROOMS)	1253 SF	50	26
LIBRARY	LIBRARY (STACK AREA)	3268 SF	100	33
STAGE	STAGE AND PLATFORMS	1287 SF	15	86
				3877

2,760 BASED ON TEA

LEGEND - CODE FLOOR PLANS



SEPARATION LEGEND

HOURLY RATING
0 = 0 HOUR
.5 = 1/2 HOUR
1 = 1 HOUR
2 = 2 HOUR
3 = 3 HOUR
4 = 4 HOUR

FIRE AND SMOKE SEPARATION TYPES
C = CORRIDOR (CYAN)
EW = EXTERIOR WALL (PURPLE)
FW = FIRE WALL (BLUE)
FB = FIRE BARRIER (RED)
FP = FIRE PARTITION (MAGENTA)
SP = SMOKE PARTITION (GREEN)
SB = SMOKE BARRIER (GREEN)
VS = VERTICAL SHAFT (ORANGE)
VX = VERTICAL EXIT ENCLOSURE (ORANGE)
XP = EXIT PASSAGEWAY (YELLOW)

DLR GROUP
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REGISTERED ARCHITECT JUSTIN A. ALLEN 23632 STATE OF TEXAS
05/06/2025

SMITH E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

11300 STANCLIFF RD
HOUSTON, TX 77099

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Project Number

CODE PLAN

CP1.1

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2012 TAS Standards for Accessible Design

for Public Accomodations and Commercial Facilities: Title III

CHAPTER 3: BUILDING BLOCKS

301 General

301.1 Scope. The provisions of Chapter 3 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

302 Floor or Ground Surfaces

302.1 General. Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302.

EXCEPTIONS:
1. Within animal containment areas, floor and ground surfaces shall not be required to be stable, firm, and slip resistant.
2. Areas of sport activity shall not be required to comply with 302.

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed edge. Carpet edge trim shall comply with 303.

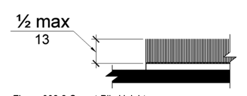

Figure 302.2 Carpet Pile Height

302.3 Openings. Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.

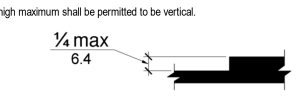

Figure 303.2 Vertical Change in Level

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

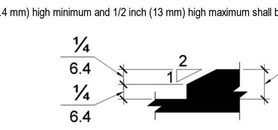

Figure 303.3 Beveled Change in Level

303.4 Ramps. Changes in level greater than 1/2 inch (13 mm) high shall be ramped, and shall comply with 405 or 406.

304 Turning Space

304.1 General. Turning space shall comply with 304.

304.2 Floor or Ground Surfaces. Floor or ground surfaces of a turning space shall comply with 302. Changes in level are not permitted.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

304.3 Size. Turning space shall comply with 304.3.1 or 304.3.2.

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

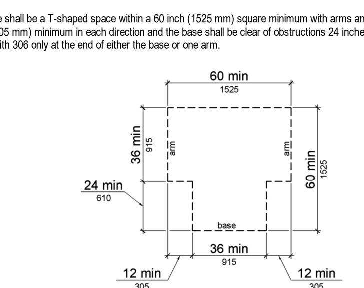

Figure 304.3.2 T-Shaped Turning Space

304.4 Door Swing. Doors shall be permitted to swing into turning spaces.

305 Clear Floor or Ground Space

305.1 General. Clear floor or ground space shall comply with 305.

305.2 Floor or Ground Surfaces. Floor or ground surfaces of a clear floor or ground space shall comply with 302. Changes in level are not permitted.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

305.3 Size. The clear floor or ground space shall be 30 inches (760 mm) minimum by 48 inches (1220 mm) minimum.

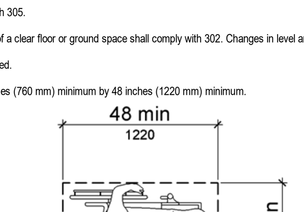

Figure 305.3 Clear Floor or Ground Space

305.4 Knee and Toe Clearance. Unless otherwise specified, clear floor or ground space shall be permitted to include knee and toe clearance complying with 306.

305.5 Position. Unless otherwise specified, clear floor or ground space shall be positioned for either forward or parallel approach to an element.

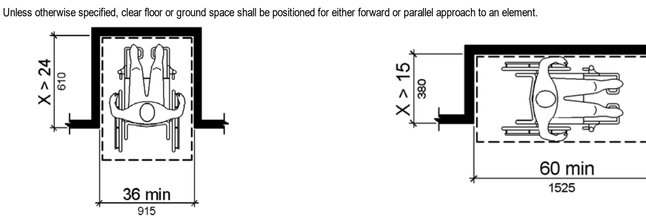

Figure 305.5 Position of Clear Floor or Ground Space

305.6 Approach. One full unobstructed side of the clear floor or ground space shall adjoin an accessible route or adjoin another clear floor or ground space.

305.7 Maneuvering Clearance. Where a clear floor or ground space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearance shall be provided in accordance with 305.7.1 and 305.7.2.

305.7.1 Forward Approach. Alcoves shall be 36 inches (915 mm)wide minimum where the depth exceeds 24 inches (610 mm).

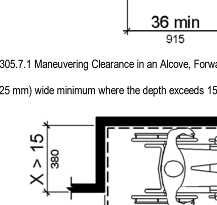

Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

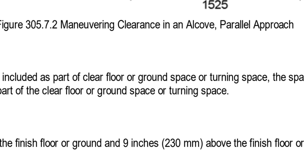

Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

306 Knee and Toe Clearance

306.1 General. Where space beneath an element is included as part of clear floor or ground space or turning space, the space shall comply with 306. Additional space shall not be prohibited beneath an element but shall not be considered as part of the clear floor or ground space or turning space.

306.2 Toe Clearance.

306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

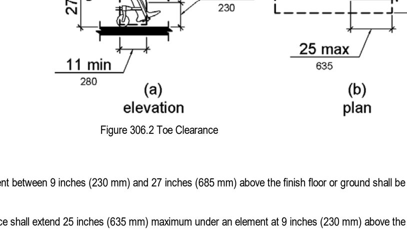

Figure 306.2 Toe Clearance

306.3 Knee Clearance.

306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.

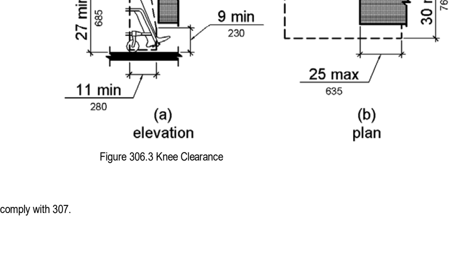

Figure 306.3 Knee Clearance

307 Protruding Objects

307.1 General. Protruding objects shall comply with 307.

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

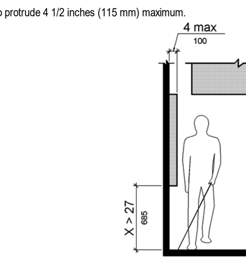

Figure 307.2 Limits of Protruding Objects

307.3 Post-Mounted Objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum above the finish floor or ground.

EXCEPTION: The sloping portions of handrails serving stairs and ramps shall not be required to comply with 307.3.

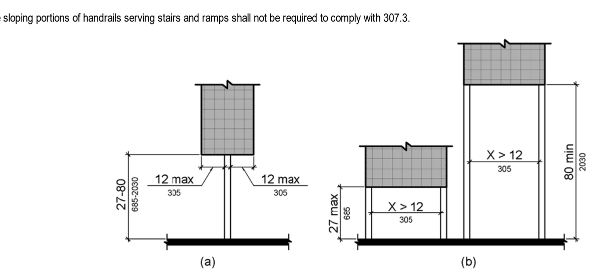

Figure 307.3 Post-Mounted Protruding Objects

307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

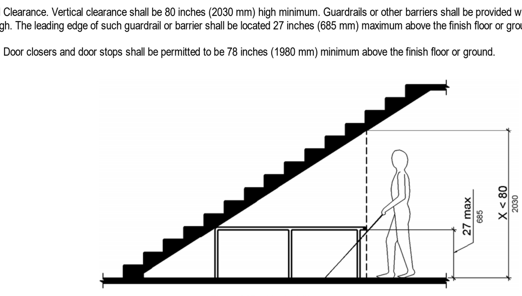

Figure 307.4 Vertical Clearance

307.5 Required Clear Width. Protruding objects shall not reduce the clear width required for accessible routes.

308 Reach Ranges

308.1 General. Reach ranges shall comply with 308.

Children's Reach Ranges

Forward or Side Reach	Ages 3 and 4	Ages 5 through 8	Ages 9 through 12
High (maximum)	36 in (915 mm)	40 in (1015 mm)	44 in (1120 mm)
Low (minimum)	20 in (510 mm)	18 in (455 mm)	16 in (405 mm)

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

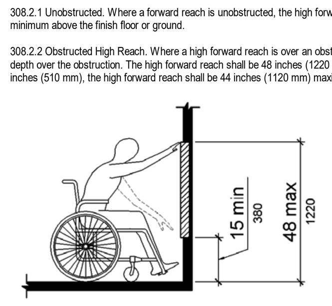

Figure 308.2.1 Unobstructed Forward Reach

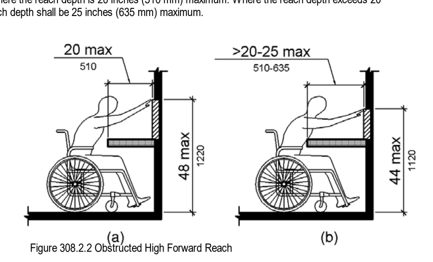

Figure 308.2.2 Obstructed High Forward Reach

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

EXCEPTIONS:
1. An obstruction shall be permitted between the clear floor or ground space and the element where the depth of the obstruction is 10 inches (255 mm) maximum.
2. Operable parts of fuel dispensers shall be permitted to be 54 inches (1370 mm) maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs.

308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

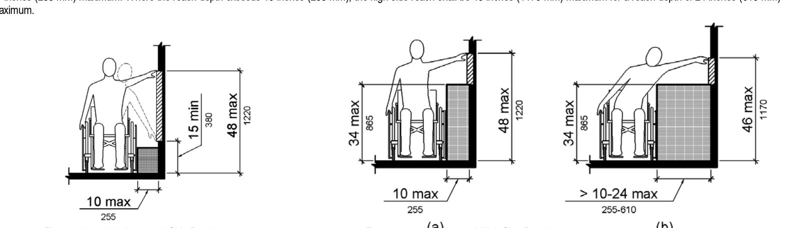

Figure 308.3.1 Unobstructed Side Reach

Figure 308.3.2 Obstructed High Side Reach

CHAPTER 4: ACCESSIBLE ROUTES

401 General

401.1 Scope. The provisions of Chapter 4 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

402 Accessible Routes

402.1 General. Accessible routes shall comply with 402.

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

403 Walking Surfaces

403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

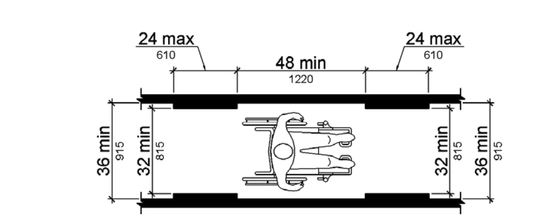

Figure 403.5.1 Clear Width of an Accessible Route

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

EXCEPTION: Where the clear width at the turn is 60 inches (1525 mm) minimum compliance with 403.5.2 shall not be required.

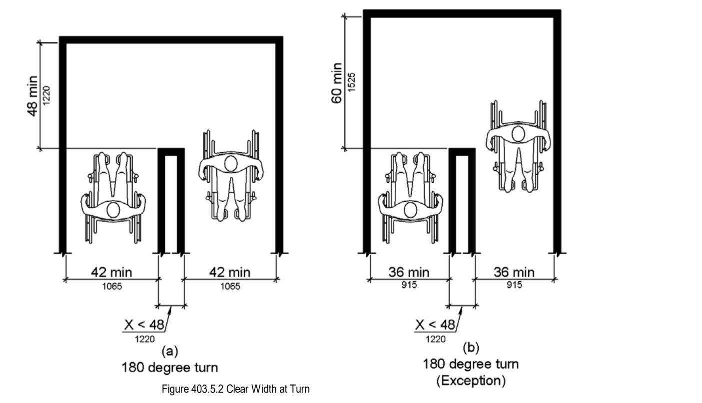

Figure 403.5.2 Clear Width at Turn

403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum. Passing spaces shall be either: a space 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum; or, an intersection of two walking surfaces providing a T-shaped space complying with 304.3.2 where the base and arms of the T-shaped space extend 48 inches (1220 mm) minimum beyond the intersection.

403.6 Handrails. Where handrails are provided along walking surfaces with running slopes not steeper than 1:20 they shall comply with 505.

404 Doors, Doorways, and Gates

404.1 General. Doors, doorways, and gates that are part of an accessible route shall comply with 404.

EXCEPTION: Doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with 404.2.7, 404.2.8, 404.2.9, 404.3.2 and 404.3.4 through 404.3.7.

404.2 Manual Doors, Doorways, and Manual Gates. Manual doors and doorways and manual gates intended for user passage shall comply with 404.2.

404.2.1 Revolving Doors, Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

404.2.2 Double-Leaf Doors and Gates. At least one of the active leaves of doorways with two leaves shall comply with 404.2.3 and 404.2.4.

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

EXCEPTIONS:
1. In alterations, a projection of 5/8 inch (16 mm) maximum into the required clear width shall be permitted for the latch side stop.
2. Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

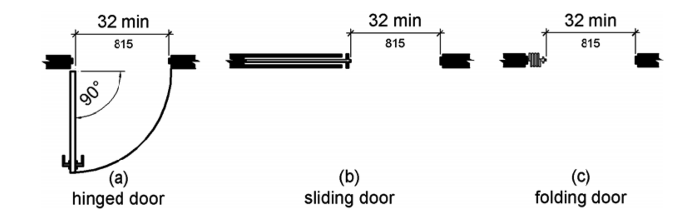

Figure 404.2.3 Clear Width of Doorways

404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

EXCEPTION: Entry doors to hospital patient rooms shall not be required to provide the clearance beyond the latch side of the door.

404.2.4.1 Swinging Doors and Gates. Swinging doors and gates shall have maneuvering clearances complying with Table 404.2.4.1.

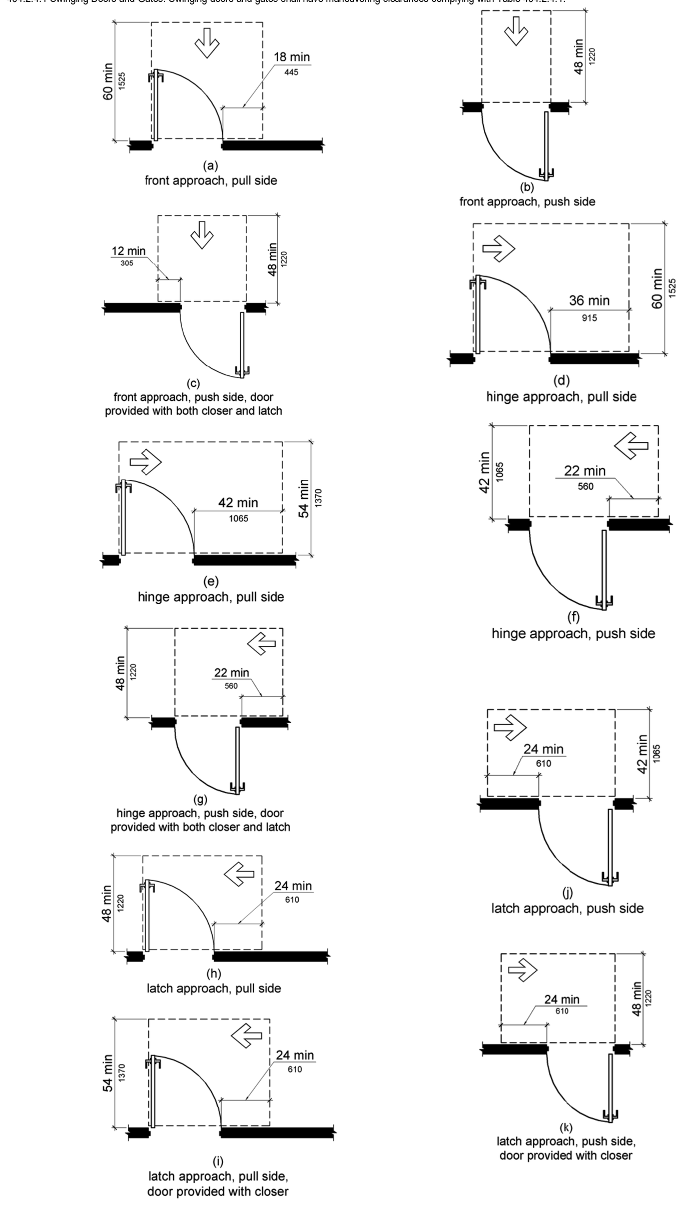

Figure 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates

404.2.4.2 Doorways without Doors or Gates, Sliding Doors, and Folding Doors. Doorways less than 36 inches (915 mm) wide without doors or gates, sliding doors, or folding doors shall have maneuvering clearances complying with Table 404.2.4.2.

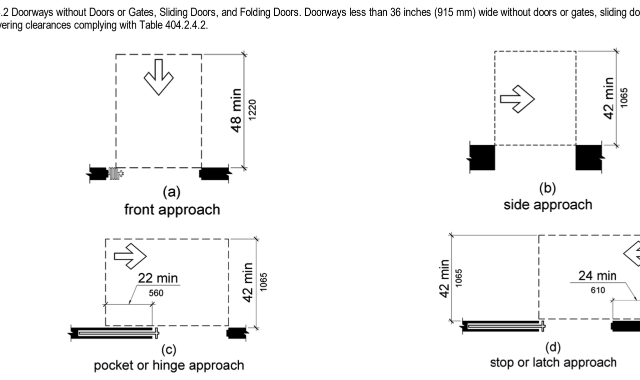

Figure 404.2.4.2 Maneuvering Clearances at Doorways Without Doors, Sliding Doors, Gates, and Folding Doors

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

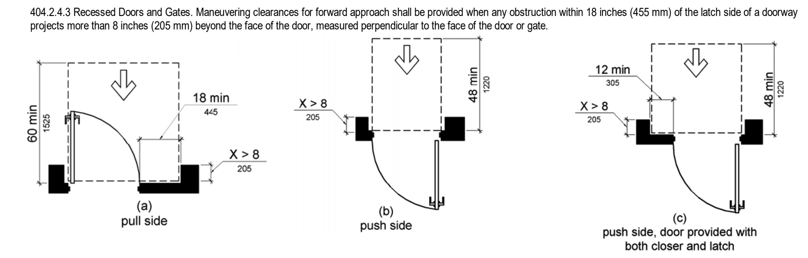

Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

404.2.4.4 Floor or Ground Surface. Floor or ground surface within required maneuvering clearances shall comply with 302. Changes in level are not permitted.

EXCEPTIONS:
1. Slopes not steeper than 1:48 shall be permitted.
2. Changes in level at thresholds complying with 404.2.5 shall be permitted.

404.2.5 Thresholds. Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303.

EXCEPTION: Existing or altered thresholds 3/4 inch (19 mm) high maximum that have a beveled edge on each side with a slope not steeper than 1:2 shall not be required to comply with 404.2.5.

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

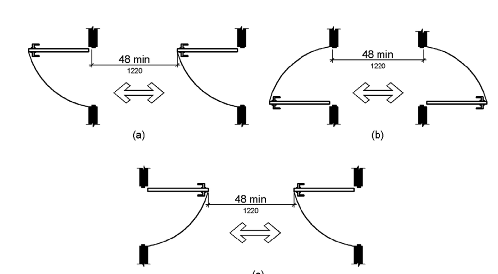

Figure 404.2.6 Doors in Series and Gates in Series

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

405 Ramps

405.1 General. Ramps on accessible routes shall comply with 405.

EXCEPTION: In assembly areas, aisle ramps adjacent to seating and not serving elements required to be on an accessible route shall not be required to comply with 405.

405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.

EXCEPTION: In existing sites, buildings, and facilities, ramps shall be permitted to have running slopes steeper than 1:12 complying with Table 405.2 where such slopes are necessary due to space limitations.

Table 405.2 Maximum Ramp Slope and Rise for Existing Sites, Buildings, and Facilities

Slope (A slope steeper than 1:8 is prohibited)	Maximum Rise
Steeper than 1:10 but not steeper than 1:8	3 inches (75 mm)
Steeper than 1:12 but not steeper than 1:10	6 inches (150 mm)

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

405.4 Floor or Ground Surfaces. Floor or ground surfaces of ramp runs shall comply with 302. Changes in level other than the running slope and cross slope are not permitted on ramp runs.

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.

EXCEPTION: Within employee work areas, the required clear width of ramps that are a part of common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum.

405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run. Landings shall comply with 405.7.

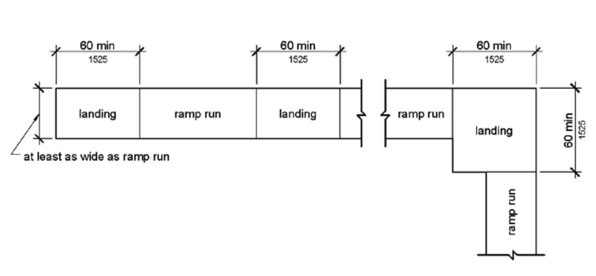

Figure 405.7 Ramp Landings

405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 505.

405.9.2 Curb or Barrier. A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground surface.

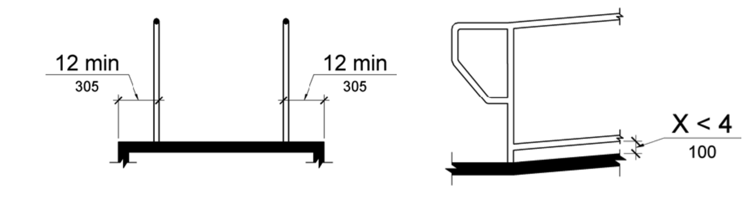

Figure 405.9.1 Extended Floor or Ground Surface Edge Protection

Figure 405.9.2 Curb or Barrier Edge Protection

405.10 Wet Conditions. Landings subject to wet conditions shall be designed to prevent the accumulation of water.

406 Curb Ramps

406.1 General. Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.

406.2 Counter Slope. Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

406.3 Sides of Curb Ramps. Where provided, curb ramp flares shall not be steeper than 1:10.

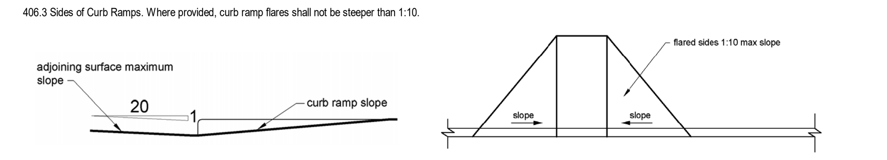

Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps

Figure 406.3 Sides of Curb Ramps

406.4 Landings. Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36 inches (915 mm) minimum. The landing clear width shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing.

EXCEPTION: In alterations, where there is no landing at the top of curb ramps, curb ramp flares shall be provided and shall not be steeper than 1:12.

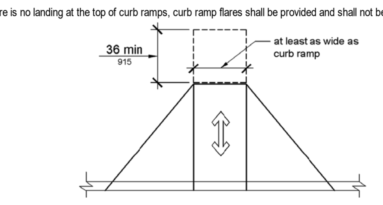

Figure 406.4 Landings at the Top of Curb Ramps

406.5 Location. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.

406.6 Diagonal Curb Ramps. Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have a clear space 48 inches (1220 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1220 mm) minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches (610 mm) long minimum located on each side of the curb ramp and within the marked crossing.

407.2 Elevator Landing Requirements. Elevator landings shall comply with 407.2.

407.2.1 Call Controls. Where elevator call buttons or keypads are provided, they shall comply with 407.2.1 and 309.4. Call buttons shall be raised or flush.

EXCEPTION: Existing elevators shall be permitted to have recessed call buttons.

407.2.1.1 Height. Call buttons and keypads shall be located within one of the reach ranges specified in 308, measured to the centerline of the highest operable part.

EXCEPTION: Existing call buttons and existing keypads shall be permitted to be located at 54 inches (1370 mm) maximum above the finish floor, measured to the centerline of the highest operable part.

407.2.1.2 Size. Call buttons shall be 3/4 inch (19 mm) minimum in the smallest dimension.

EXCEPTION: Existing elevator call buttons shall not be required to comply with 407.2.1.2.

407.2.1.3 Clear Floor or Ground Space. A clear floor or ground space complying with 305 shall be provided at call controls.

407.2.2 Hall Signals. Hall signals, including in-car signals, shall comply with 407.2.2.

407.2.2.1 Visible and Audible Signals. A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel. Where in-car signals are provided, they shall be visible from the floor area adjacent to the hall call buttons.

EXCEPTIONS:
1. Visible and audible signals shall not be required at each destination-oriented elevator where a visible and audible signal complying with 407.2.2 is provided indicating the elevator car designation information.
2. In existing elevators, a signal indicating the direction of car travel shall not be required.

407.2.2.2 Visible Signals. Visible signal fixtures shall be centered at 72 inches (1830 mm) minimum above the finish floor or ground. The visible signal elements shall be 2 1/2 inches (64 mm) minimum measured along the vertical centerline of the element. Signals shall be visible from the floor area adjacent to the hall call button.

EXCEPTIONS:
1. Destination-oriented elevators shall be permitted to have signals visible from the floor area adjacent to the hoistway entrance.
2. Existing elevators shall not be required to comply with 407.2.2.2.

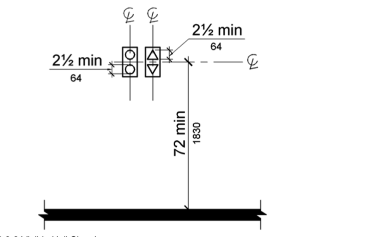

Figure 407.2.2.2 Visible Hall Signals

407.2.3 Hoistway Signs. Signs at elevator hoistways shall comply with 407.2.3.

407.2.3.1 Floor Designation. Floor designations complying with 703.2 and 703.4.1 shall be provided on both jambs of elevator hoistway entrances. Floor designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high minimum. A tactile star shall be provided on both jambs at the main entry level.

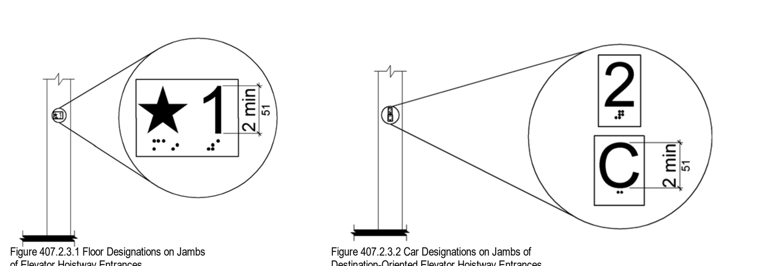

Figure 407.2.3.1 Floor Designations on Jambs of Elevator Hoistway Entrances

Figure 407.2.3.2 Car Designations on Jambs of Destination-Oriented Elevator Hoistway Entrances

CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

604 Water Closets and Toilet Compartments

604.1 General. Water closets and toilet compartments shall comply with 604.2 through 604.8.

EXCEPTION: Water closets and toilet compartments for children's use shall be permitted to comply with 604.9.

604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

604.3 Clearance. Clearances around water closets and in toilet compartments shall comply with 604.3.

604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.

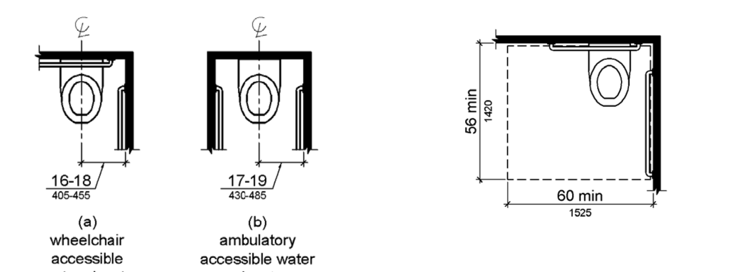

Figure 604.2 Water Closet Location

Figure 604.3.1 Size of Clearance at Water Closets

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

EXCEPTIONS:
1. A water closet in a toilet room for a single occupant accessed only through a private office and not for common use or public use shall not be required to comply with 604.4.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

EXCEPTIONS:
1. Grab bars shall not be required to be installed in a toilet room for a single occupant accessed only through a private office and not for common use or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall.

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

EXCEPTIONS:
1. The rear grab bar shall be permitted to be 24 inches (610 mm) long minimum, centered on the water closet, where wall space does not permit a length of 36 inches (915 mm) minimum due to the location of a recessed fixture adjacent to the water closet.
2. Where an administrative authority requires flush controls for flush valves to be located in a position that conflicts with the location of the rear grab bar, then the rear grab bar shall be permitted to be split or shifted to the open side of the toilet area.

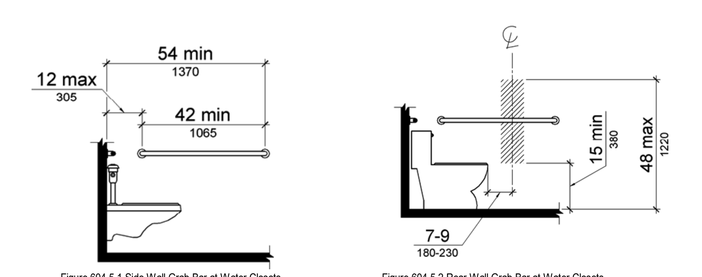

Figure 604.5.1 Side Wall Grab Bar at Water Closets

Figure 604.5.2 Rear Wall Grab Bar at Water Closets

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with 604.8.1.

604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

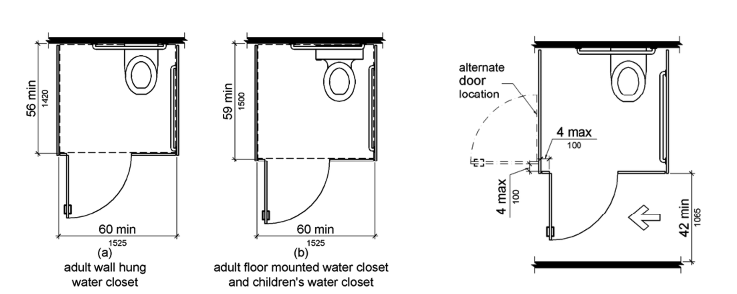

Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

Figure 604.8.1.2 Wheelchair Accessible Toilet Compartment Doors

604.8.1.4 Toe Clearance. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.

EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm) deep.

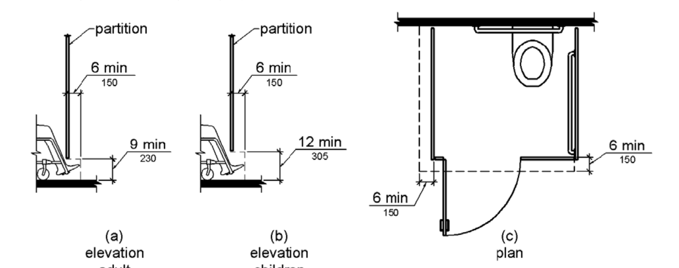

Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply with 604.8.2.

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum.

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.2.3 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

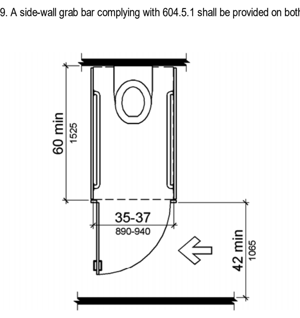

Figure 604.8.2 Ambulatory Accessible Toilet Compartment

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604.9 Water Closets and Toilet Compartments for Children's Use. Water closets and toilet compartments for children's use shall comply with 604.9.

605 Urinals

605.1 General. Urinals shall comply with 605.

605.2 Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

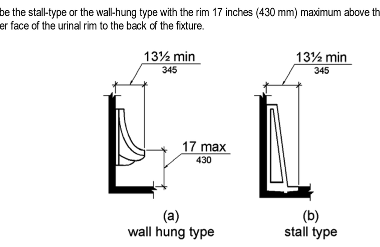

Figure 605.2 Height and Depth of Urinals

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

EXCEPTION: Braille provided on elevator car controls shall be separated 3/16 inch (4.8 mm) minimum and shall be located either directly below or adjacent to the corresponding raised characters or symbols.

703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

EXCEPTION: Tactile characters for elevator car controls shall not be required to comply with 703.4.1.

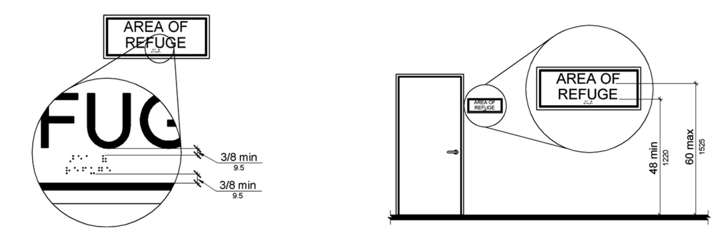

Figure 703.3.2 Position of Braille

Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

EXCEPTION: Signs with tactile characters shall be permitted on the push side of doors with closers and without hold-open devices.

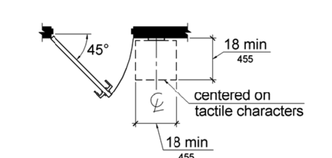

Figure 703.4.2 Location of Tactile Signs at Doors

CHAPTER 8: SPECIAL ROOMS, SPACES AND ELEMENTS

804 Kitchens and Kitchenettes

804.1 General. Kitchens and kitchenettes shall comply with 804.

804.2 Clearance. Where a pass through kitchen is provided, clearances shall comply with 804.2.1. Where a U-shaped kitchen is provided, clearances shall comply with 804.2.2.

EXCEPTION: Spaces that do not provide a cooktop or conventional range shall not be required to comply with 804.2.

Advisory 804.2 Clearance. Clearances are measured from the furthest projecting face of all opposing base cabinets, counter tops, appliances, or walls, excluding hardware.

804.2.1 Pass Through Kitchen. In pass through kitchens where counters, appliances or cabinets are on two opposing sides, or where counters, appliances or cabinets are opposite a parallel wall, clearance between all opposing base cabinets, counter tops, appliances, or walls within kitchen work areas shall be 40 inches (1015 mm) minimum. Pass through kitchens shall have two entries.

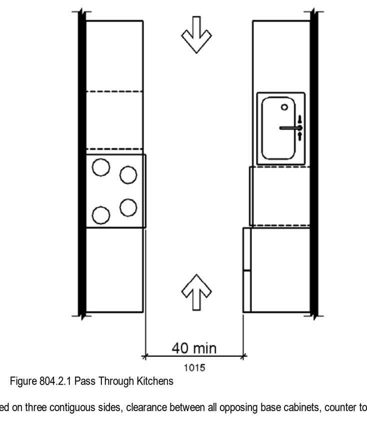

Figure 804.2.1 Pass Through Kitchens

804.2.2 U-Shaped. In U-shaped kitchens enclosed on three contiguous sides, clearance between all opposing base cabinets, counter tops, appliances, or walls within kitchen work areas shall be 60 inches (1525 mm) minimum.

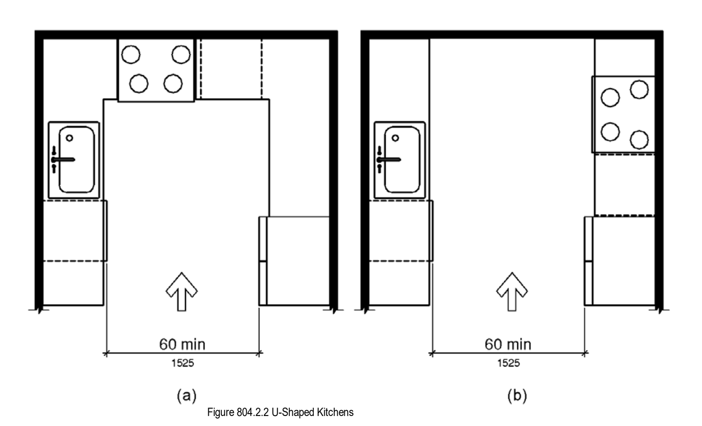

Figure 804.2.2 U-Shaped Kitchens

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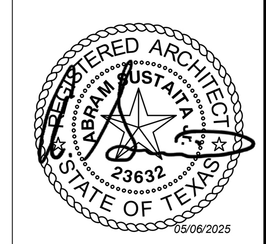

SMITH E.S. - RESTROOM RENOVATIONS
ALIEF INDEPENDENT SCHOOL DISTRICT

11300 STANCLIFF RD
HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
4 6 02-11-26 ISSUE FOR BID & PERMIT

Project Number
TEXAS ADA

CP1.2

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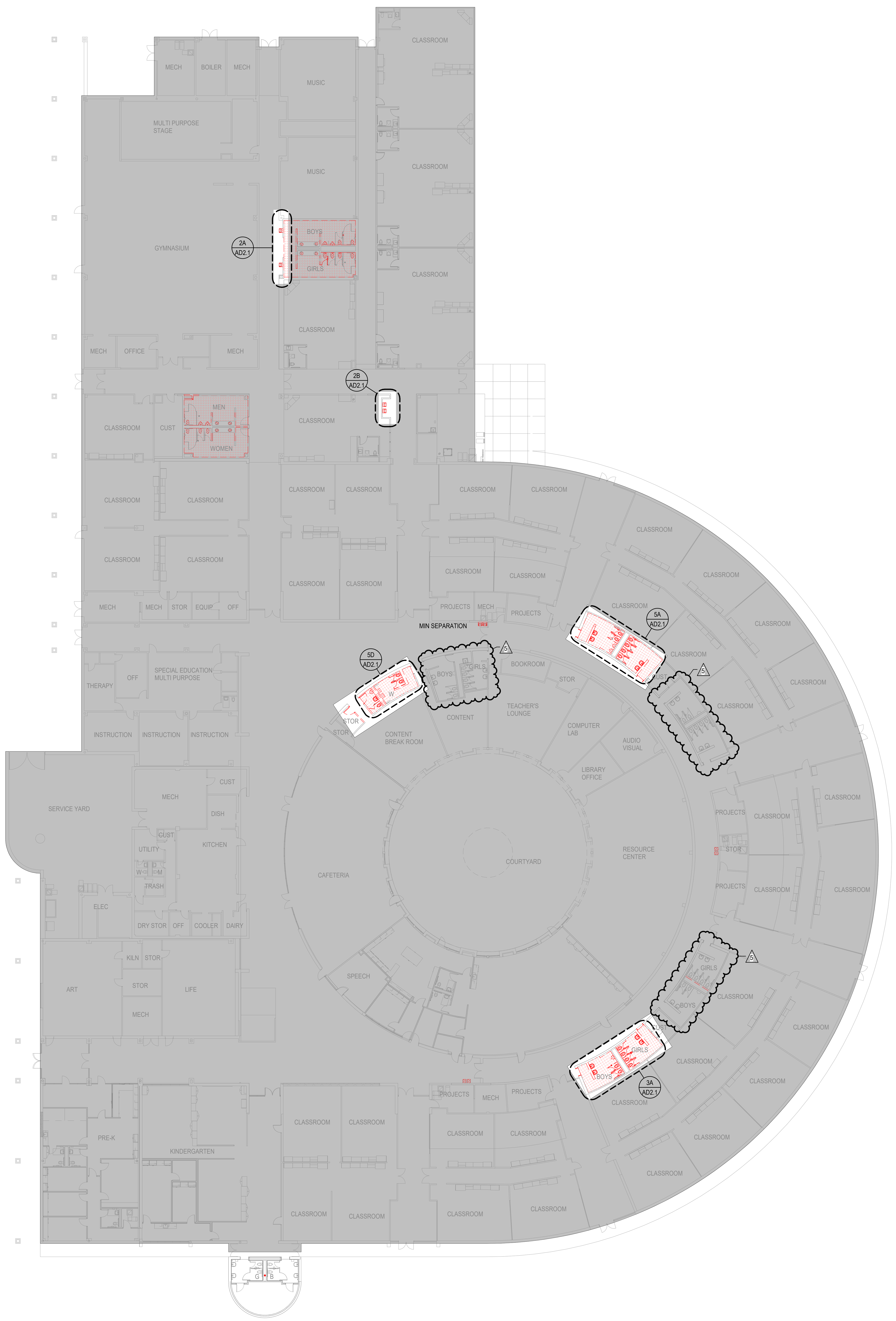

OVERALL DEMOLITION PLAN

SCALE: 1" = 20'-0"

DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL ENGINEER.
P. WHERE CMU WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING CMU IN TOOTH-IN PATTERN BOTH SIDES OF DEMOLITION FOR CONTRACTOR TO TOOTH-IN NEW CMU PATCHES.
Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

REFERENCE KEYNOTES

SHEET NOTES

DLRGROUP
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REGISTERED ARCHITECT
ABRAM AUSTAITA
23632
STATE OF TEXAS
05/06/2025

SMITH ELEMENTARY
SHARKS
EST. 1972

SMITH E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

11300 STANCLIFF RD
HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
05.06.2025

REVISIONS

3	ADD 5	10-31-25	CLIENT VE
4	6	02-11-26	ISSUE FOR BID & PERMIT
5	ADD 7	04-06-26	OWNER VE

Project Number

OVERALL DEMOLITION PLAN

AD1.1

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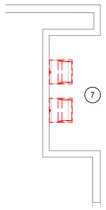

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2B AD2.1 DEMO @ DF
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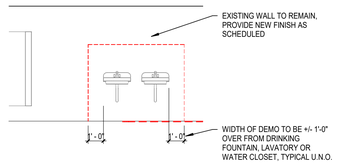

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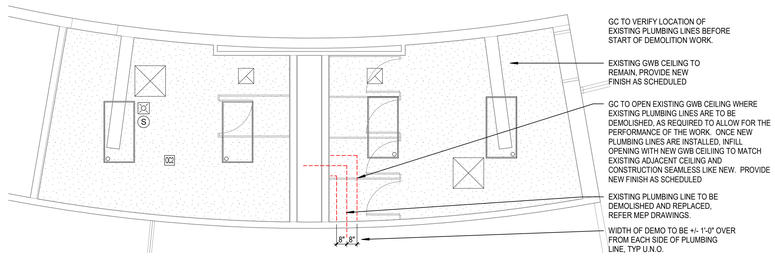

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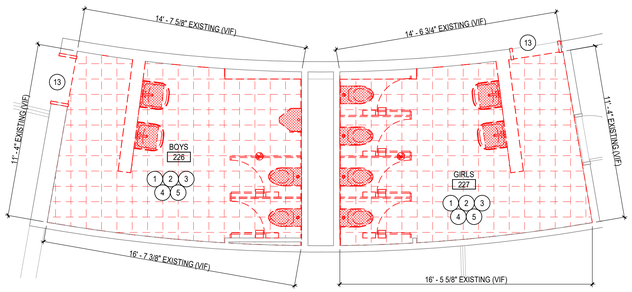

3A AD2.1 BOYS 226 / GIRLS 227 DEMOLITION PLAN
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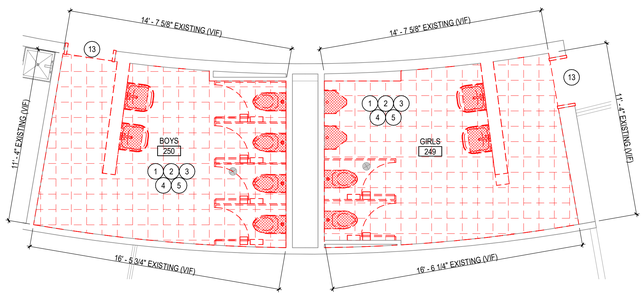

5A AD2.1 BOYS 250 / GIRLS 249 DEMOLITION PLAN
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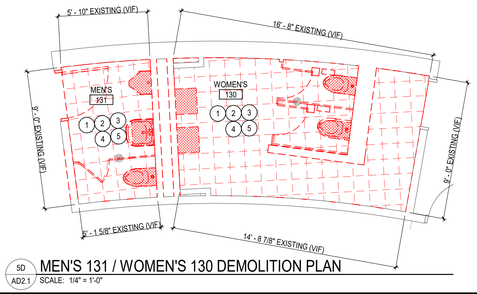

5D AD2.1 MEN'S 131 / WOMEN'S 130 DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

DEMOLITION GENERAL NOTES

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B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS. AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL ENGINEER.
P. WHERE CMU WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING CMU IN TOOTH-IN PATTERN BOTH SIDES OF DEMOLITION FOR CONTRACTOR TO TOOTH-IN NEW CMU PATCHES.
Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.

SHEET NOTES

1 GC TO VERIFY EXISTING FLOOR FINISH. IF EXISTING FLOOR FINISH IS TERRAZZO, GC IS TO KEEP EXISTING FLOOR FINISH, DEEP CLEAN, POLISH AND PROTECT IT. IF EXISTING FLOOR FINISH IS NOT TERRAZZO, IT IS TO BE REMOVED AND DISCARDED.
2 REMOVE AND DISCARD EXISTING PLUMBING FIXTURES AND ACCESSORIES. CAP UNUSED PLUMBING OUT OF SIGHT. REFER TO PLUMBING DRAWING.
3 REMOVE AND DISCARD EXISTING LIGHT FIXTURES. SEE RCP'S FOR NEW LAYOUT.
4 REMOVE AND DISCARD EXISTING TOILET PARTITIONS AND URINAL SCREENS.
5 REMOVE AND DISCARD EXISTING GYPSUM BOARD WALL AS INDICATED.
7 EXISTING DRINKING FOUNTAIN, REMOVE AND DISCARD.
13 DOOR FRAME, REMOVE AND DISCARD. PREP WALL TO RECEIVE NEW FRAME.

DEMOLITION PLAN LEGEND

- AREA NOT IN CONTRACT (NIC)
- EXISTING PARTITION TO BE DEMOLISHED
- EXISTING PARTITION TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED
- EXISTING DOOR TO REMAIN
- ACOUSTIC CEILING SYSTEM TO BE DEMOLISHED, GRID & TILE
- LIGHT FIXTURE TO BE DEMOLISHED
- EXISTING CEILING MOUNTED LIGHT FIXTURE TO BE DEMOLISHED
- LIGHT FIXTURE TO BE DEMOLISHED
- 5' - 0" DIMENSION (FACE TO FACE, TYPICAL)
- EXISTING FLOOR FINISH TO BE DEMOLISHED

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REGISTERED ARCHITECT JUSTIN A. FOX 23632 STATE OF TEXAS
03/06/2025

ALIEF ISD SHARKS

SMITH E.S. - RESTROOM RENOVATIONS
ALIEF INDEPENDENT SCHOOL DISTRICT
11300 STANCLIFF RD
HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS

2	ADD 2	08-05-25	RAS COMMENTS
3	ADD 5	10-31-25	CLIENT VE
4	6	02-11-26	ISSUE FOR BID & PERMIT
5	ADD 7	04-06-26	OWNER VE

Project Number

ENLARGED DEMOLITION PLAN - RESTROOMS

AD2.1

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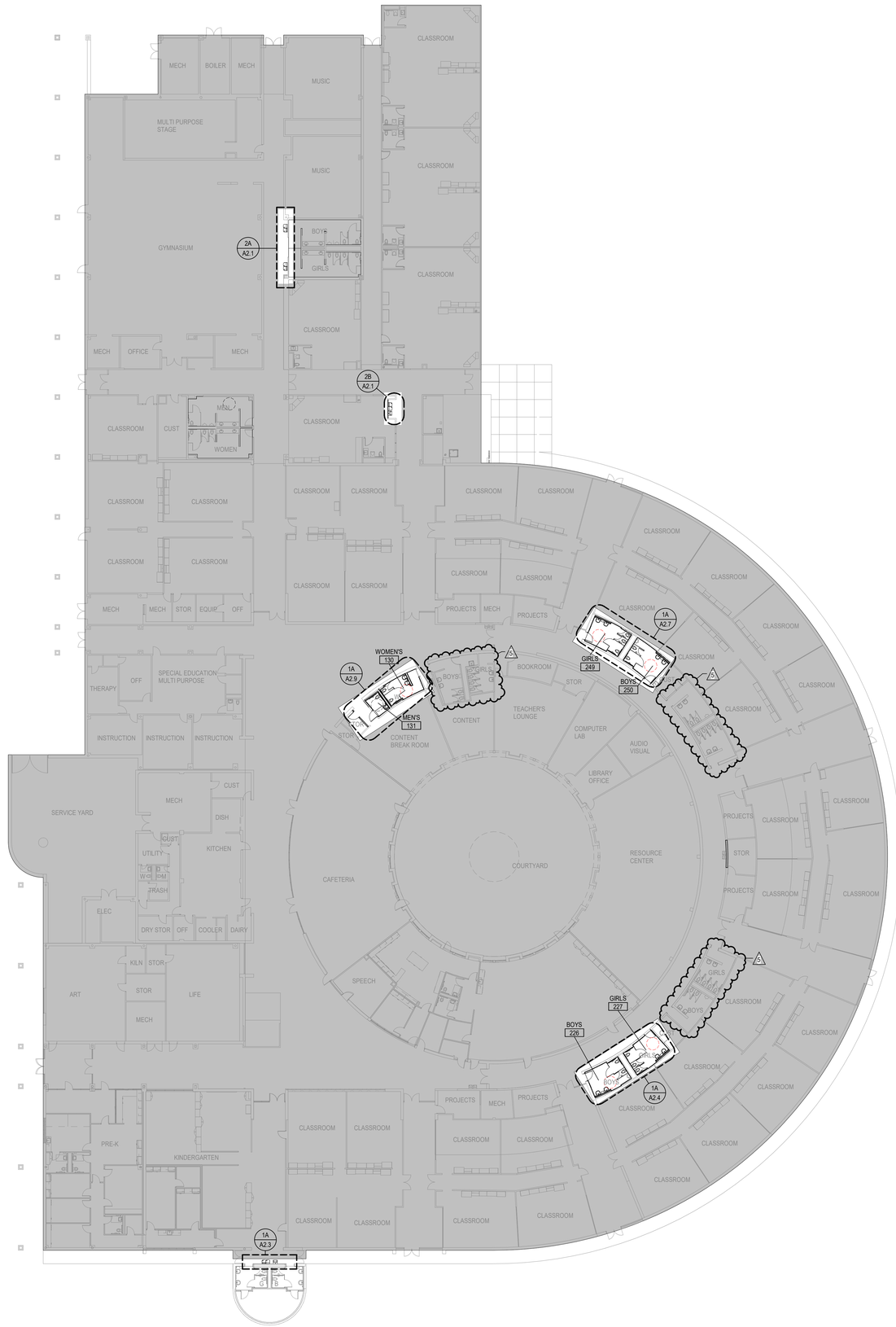

N

OVERALL FLOOR PLAN

SCALE: 1" = 20'-0"

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX.X.XX) THUS: SEE SHEET A6.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS. I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

SHEET NOTES

1 NEW BOTTLE FILLER DRINKING FOUNTAIN. REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.

3 GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.

4 GC TO PROVIDE ADA CANE DETECTION APRON AT HIGH SIDE OF DRINKING FOUNTAIN.

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REGISTERED ARCHITECT JUSTIN A. ABRAM 23632 STATE OF TEXAS
05/06/2025

SMITH E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

11300 STANCLIFF RD
HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
05.06.2025

REVISIONS

3	ADD 5	10-31-25	CLIENT VE
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5	ADD 7	04-06-26	OWNER VE

Project Number

OVERALL FLOOR PLAN

A1.1

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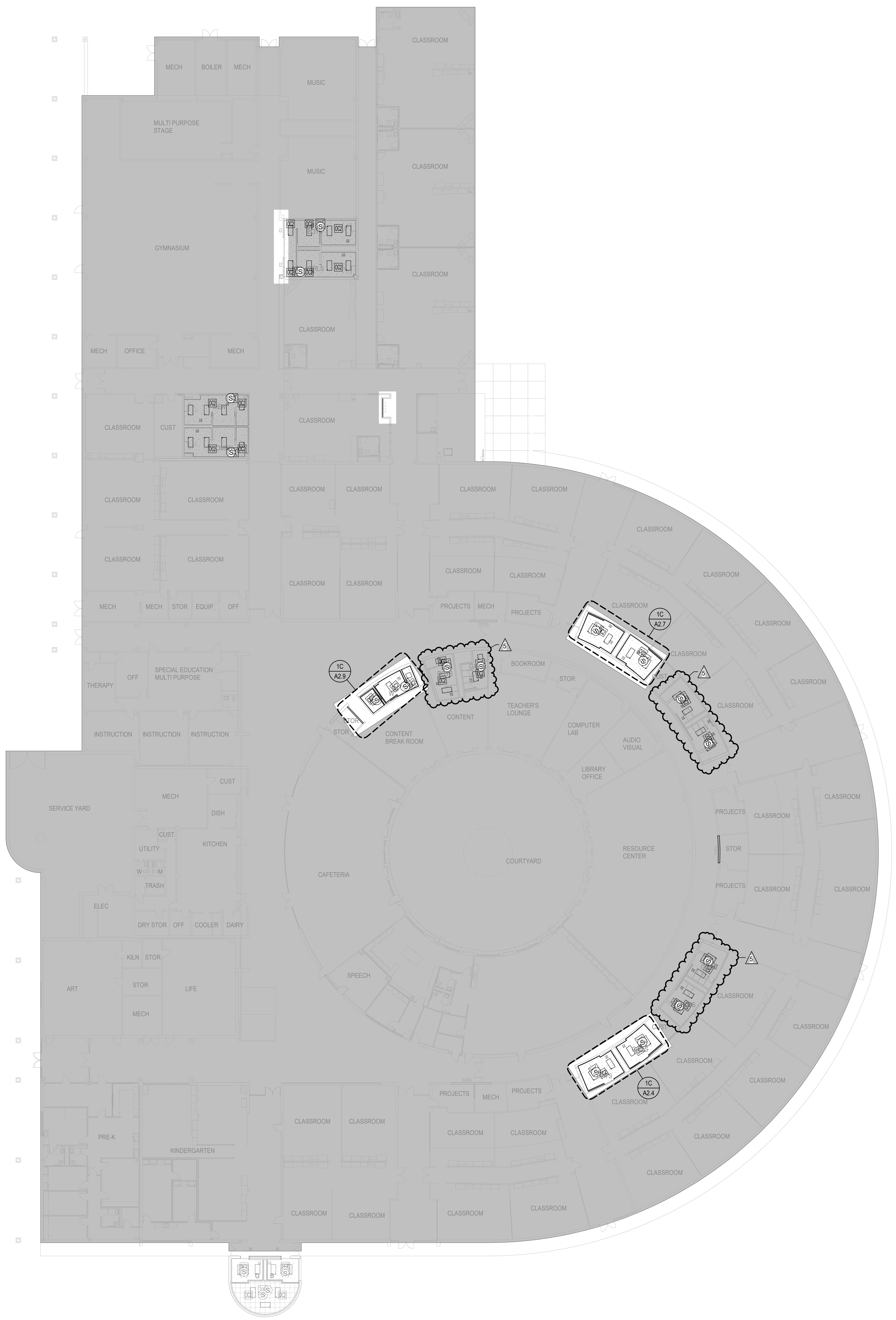

OVERALL REFLECTED CEILING PLAN

SCALE: 1" = 20'-0"

GENERAL ARCHITECTURAL NOTES

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12. NOT USED.

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REGISTERED ARCHITECT
ABRAM BUSTAITA
23632
STATE OF TEXAS
05/06/2025

SMITH ELEMENTARY
SHARKS
EST. 1972

SMITH E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

11300 STANCLIFF RD
HOUSTON, TX 77099

ISSUE FOR BID & PERMIT

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REVISIONS

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Project Number

OVERALL REFLECTED CEILING PLAN

A1.2

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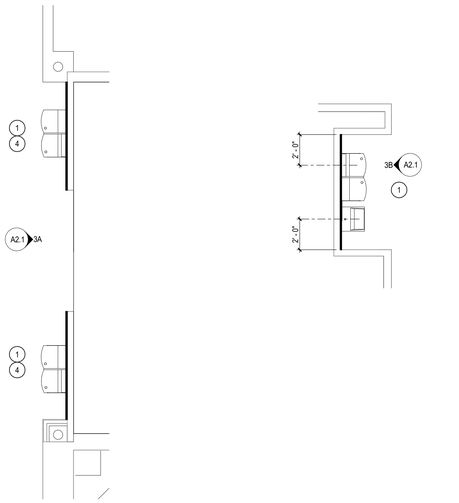
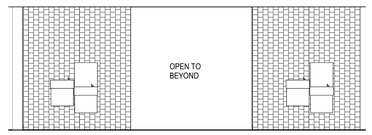
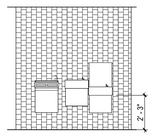


2A A2.1 DRINKING FOUNTAINS AT GYM
SCALE: 1/4" = 1'-0"

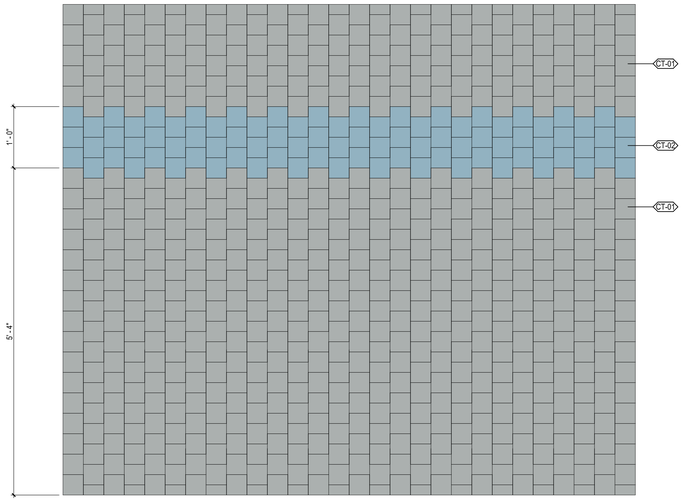
2B A2.1 DRINKING FOUNTAINS
SCALE: 1/4" = 1'-0"



3A A2.1 DRINKING FOUNTAIN ELEVATION AT BOYS 108 / GIRLS 109
SCALE: 1/4" = 1'-0"



3B A2.1 ELEVATION NEAR 410
SCALE: 1/4" = 1'-0"



2D A2.1 TYPICAL WALL TILE PATTERN - RESTROOMS AND DRINKING FOUNTAIN WALLS
SCALE: 1" = 1'-0"

SHEET NOTES

1 NEW BOTTLE FILLER DRINKING FOUNTAIN; REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.

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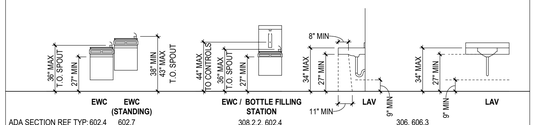
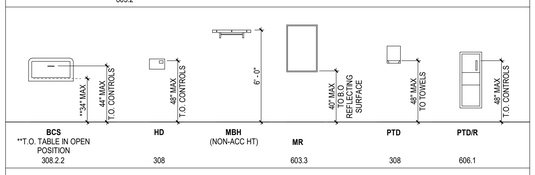
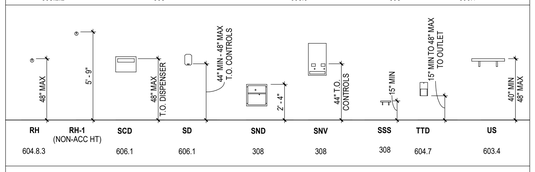
4 GC TO PROVIDE ADA CANE DETECTION APRON AT HIGH SIDE OF DRINKING FOUNTAIN.

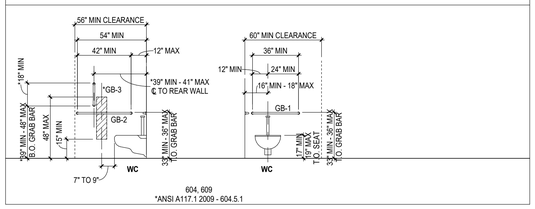
ADULT MOUNTING HEIGHTS - 2010 ADA STANDARDS

ACCESSIBLE (ACC) UNO









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11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

GENERAL NOTES FOR ACCESSIBILITY - 2010 ADA

A. ACCESSIBLE URINAL SHALL PROVIDE CLEAR FLOOR SPACE PER 605.3.
B. ACCESSIBLE WATER CLOSETS SHALL PROVIDE CLEAR SPACE PER 604.3.1.
C. ACCESSIBLE LAVATORIES AND SINKS SHALL PROVIDE CLEAR SPACE PER 606.2.
D. ACCESSIBLE TOILET ROOMS SHALL PROVIDE A TURNING SPACE OF 60 INCHES IN DIAMETER PER 304.3.1.
E. ACCESSIBLE DRINKING FOUNTAINS / ELECTRIC WATER COOLERS SHALL PROVIDE CLEAR FLOOR SPACE PER 602.2.
F. ACCESSIBLE TOILET PARTITIONS SHALL COMPLY WITH 604.8.1.
G. EXPOSED PIPES AND SURFACES UNDER LAVATORIES AND SINKS SHALL BE INSULATED PER 606.5.

REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

XXX — CEILING TYPE
X-XX — CEILING HEIGHT

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV.	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

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REGISTERED ARCHITECT JUSTIN A. ALBRIGHT 23632 STATE OF TEXAS
03/06/2025

SMITH E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

11300 STANCLIFF RD
HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
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REVISIONS

1	ADD 1	06-16-25	CCH COMMENTS
2	ADD 2	08-05-25	RAS COMMENTS
3	ADD 5	10-31-25	CLIENT VE
4	6	02-11-26	ISSUE FOR BID & PERMIT

Project Number

ENLARGED FLOOR PLANS AND ELEVATIONS

A2.1

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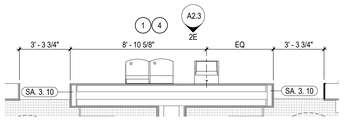
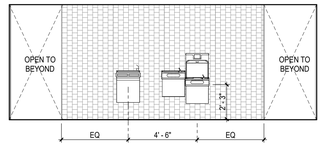


1A / A2.3 ENLARGED FLOOR PLAN - BOYS / GIRLS 207
SCALE: 1/4" = 1'-0"



2E / A2.3 RESTROOM 207 DRINKING FOUNTAIN ELEVATION
SCALE: 1/4" = 1'-0"

SHEET NOTES

1 NEW BOTTLE FILLER DRINKING FOUNTAIN. REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.

3 GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.

4 GC TO PROVIDE ADA CANE DETECTION APRON AT HIGH SIDE OF DRINKING FOUNTAIN.

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX.X.XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

XXX — CEILING TYPE
X-XX — CEILING HEIGHT

DLR GROUP
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REGISTERED ARCHITECT JUSTIN ALIEF 23632 STATE OF TEXAS
05/06/2025

ALIEF SHARKS

SMITH E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

1130 STANCLIFF RD
HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
05.06.2025

REVISIONS

1	ADD 1	06-16-25	CDH COMMENTS
3	ADD 5	10-31-25	CLIENT VE
4	6	02-11-26	ISSUE FOR BID & PERMIT

Project Number

ENLARGED FLOOR PLANS AND ELEVATIONS

A2.3

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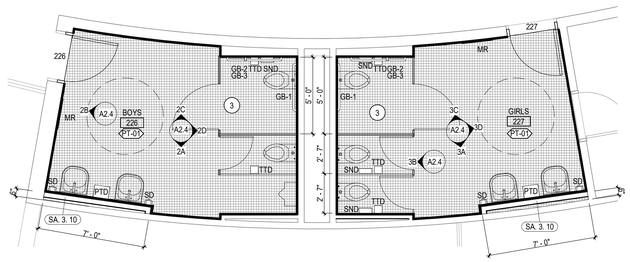
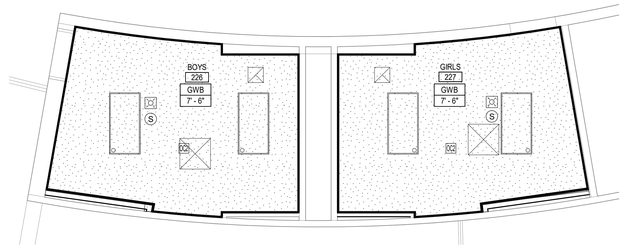


1A A2.4 ENLARGED FLOOR PLAN - BOYS 226 / GIRLS 227
SCALE: 1/4" = 1'-0"



1C A2.4 ENLARGED RCP - BOYS 226 / GIRLS 227
SCALE: 1/4" = 1'-0"

2A A2.4 226 - BOYS - SOUTH
SCALE: 1/4" = 1'-0"

2B A2.4 226 - BOYS - WEST
SCALE: 1/4" = 1'-0"

2C A2.4 226 - BOYS - NORTH
SCALE: 1/4" = 1'-0"

2D A2.4 226 - BOYS - EAST
SCALE: 1/4" = 1'-0"

3A A2.4 227 - GIRLS - SOUTH
SCALE: 1/4" = 1'-0"

3B A2.4 227 - GIRLS - WEST
SCALE: 1/4" = 1'-0"

3C A2.4 227 - GIRLS - NORTH
SCALE: 1/4" = 1'-0"

3D A2.4 227 - GIRLS - EAST
SCALE: 1/4" = 1'-0"

4B A2.4 DRINKING FOUNTAIN NEAR KINDERGARTEN
SCALE: 1/4" = 1'-0"

SHEET NOTES

1 NEW BOTTLE FILLER DRINKING FOUNTAIN. REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.

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GENERAL ARCHITECTURAL NOTES

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4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
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11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

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REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

XXX — CEILING TYPE
X-XX — CEILING HEIGHT

DLR GROUP
© DLR Group

REGISTERED ARCHITECT
ABIRAM SUSTAITA
23632
STATE OF TEXAS
05/06/2025

SMITH E.S. - RESTROOM RENOVATIONS
ALIEF INDEPENDENT SCHOOL DISTRICT
11300 STANCLIFF RD
HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
1 ADD 1 06-16-25 COH COMMENTS
2 ADD 2 08-05-25 RAS COMMENTS
3 ADD 5 10-31-25 CLIENT VE
4 6 02-11-26 ISSUE FOR BID & PERMIT

Project Number

ENLARGED FLOOR PLANS AND ELEVATIONS

A2.4

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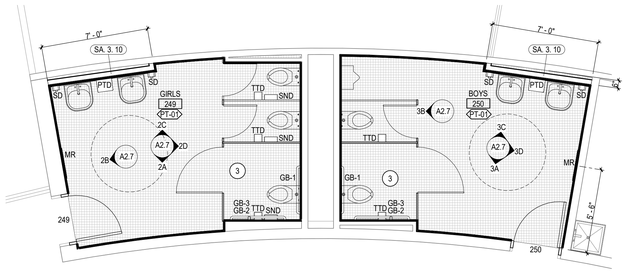
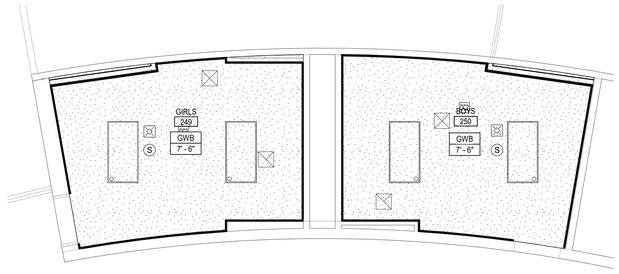


1A A2.7 ENLARGED FLOOR PLAN - BOYS 250 / GIRLS 249
SCALE: 1/4" = 1'-0"



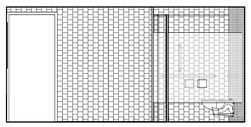
1C A2.7 ENLARGED RCP - BOYS 250 / GIRLS 249
SCALE: 1/4" = 1'-0"

2A A2.7 249 - GIRLS - SOUTH
SCALE: 1/4" = 1'-0"

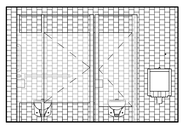
2B A2.7 249 - GIRLS - WEST
SCALE: 1/4" = 1'-0"

2C A2.7 249 - GIRLS - NORTH
SCALE: 1/4" = 1'-0"

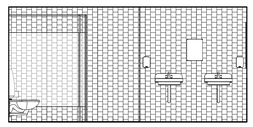
2D A2.7 249 - GIRLS - EAST
SCALE: 1/4" = 1'-0"



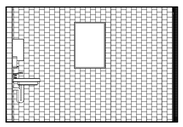
3A A2.7 250 - BOYS - SOUTH
SCALE: 1/4" = 1'-0"



3B A2.7 250 - BOYS - WEST
SCALE: 1/4" = 1'-0"



3C A2.7 250 - BOYS - NORTH
SCALE: 1/4" = 1'-0"



3D A2.7 250 - BOYS - EAST
SCALE: 1/4" = 1'-0"

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
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3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
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REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

XXX — CEILING TYPE
X-XX — CEILING HEIGHT

SHEET NOTES

1 NEW BOTTLE FILLER DRINKING FOUNTAIN. REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.
3 GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.
4 GC TO PROVIDE ADA CANE DETECTION APRON AT HIGH SIDE OF DRINKING FOUNTAIN.

DLR GROUP
© DLR Group

REGISTERED ARCHITECT JUSTIN A. ALBRIGHT 23632 STATE OF TEXAS
05/06/2025

SMITH E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

1300 STANCLIFF RD
HOUSTON, TX 77099

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05.06.2025
REVISIONS
1 ADD 1 06-16-25 COH COMMENTS
2 ADD 2 08-05-25 RAS COMMENTS
4 6 02-11-26 ISSUE FOR BID & PERMIT

Project Number

ENLARGED FLOOR PLANS AND ELEVATIONS

A2.7

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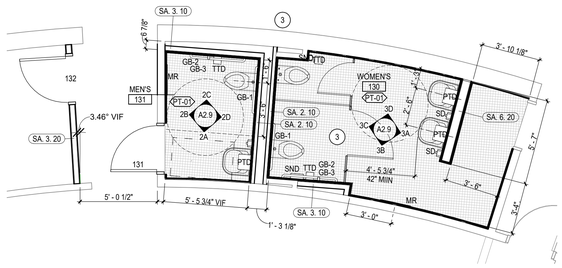
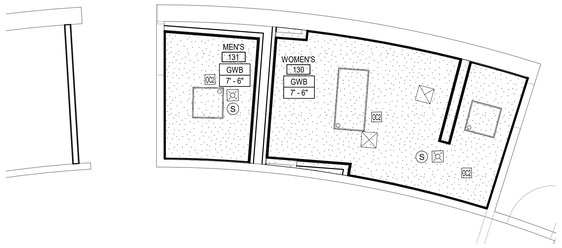


1A A2.9 ENLARGED FLOOR PLAN - WOMEN'S 130 / MEN'S 131
SCALE: 1/4" = 1'-0"



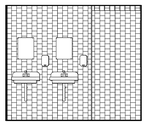
1C A2.9 ENLARGED RCP - MENS 131 / WOMEN'S 130
SCALE: 1/4" = 1'-0"

2A A2.9 131 - MEN'S - SOUTH
SCALE: 1/4" = 1'-0"

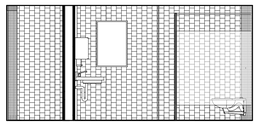
2B A2.9 131 - MEN'S - WEST
SCALE: 1/4" = 1'-0"

2C A2.9 131 - MEN'S - NORTH
SCALE: 1/4" = 1'-0"

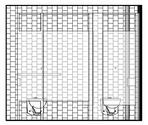
2D A2.9 131 - MEN'S - EAST
SCALE: 1/4" = 1'-0"



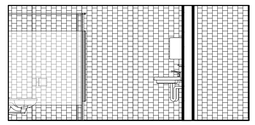
3A A2.9 131 - WOMEN'S - EAST
SCALE: 1/4" = 1'-0"



3B A2.9 131 - WOMEN'S - SOUTH
SCALE: 1/4" = 1'-0"



3C A2.9 131 - WOMEN'S - WEST
SCALE: 1/4" = 1'-0"



3D A2.9 131 - WOMEN'S - NORTH
SCALE: 1/4" = 1'-0"

SHEET NOTES

1 NEW BOTTLE FILLER DRINKING FOUNTAIN. REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.

3 GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.

4 GC TO PROVIDE ADA CANE DETECTION APRON AT HIGH SIDE OF DRINKING FOUNTAIN.

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX.X.XX) THUS: SEE SHEET A6.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

XXX — CEILING TYPE
X-XX — CEILING HEIGHT

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REGISTERED ARCHITECT JUSTIN A. ALLEN 23632 STATE OF TEXAS
02/06/2025

SMITH E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

1300 STANCLIFF RD
HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
05.06.2025

REVISIONS

1	ADD 1	06-16-25	COH COMMENTS
2	ADD 2	08-05-25	RAS COMMENTS
4	6	02-11-26	ISSUE FOR BID & PERMIT

Project Number

ENLARGED FLOOR PLANS AND ELEVATIONS

A2.9

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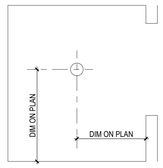
TYPICAL RULES FOR DETERMINING LOCATIONS OF VISIBLE CEILING ITEMS, DIMENSIONS, AND CONFIGURATIONS

LOCATE ITEMS AS INDICATED WHEN SHOWN DIMENSIONED BY A REFLECTED CEILING PLAN, ENLARGED REFLECTED CEILING PLAN, OR DETAIL.

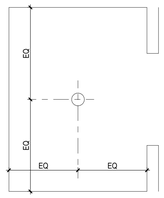
SPECIFIC DIMENSIONS SHOWN BY REFLECTED CEILING PLANS, ELEVATIONS, OR DETAILS TAKE PRECEDENCE OVER TYPICAL LOCATION RULES.



RULE 1

WHEN COMPLETELY DIMENSIONED ON REFLECTED CEILING PLAN

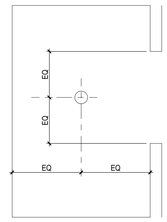
LOCATE ITEMS CENTERED IN SPACE (OR CEILING PLANE) WHEN SHOWN (BUT NOT DIMENSIONED) VISUALLY AT APPROXIMATE CENTER OF SPACE.



RULE 2

WHEN NOT DIMENSIONED BUT SHOWN CENTERED

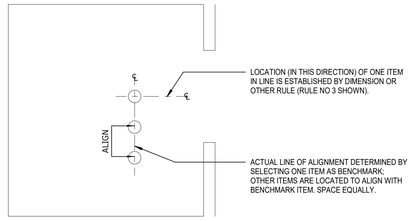
LOCATE ITEMS CENTERED ON ADJACENT OPENING OR FEATURE WHEN SHOWN (BUT NOT DIMENSIONED) OFF-CENTER IN OVERALL SPACE BUT CENTERED AGAINST ADJACENT FEATURE.



RULE 3

WHEN OFF-CENTER IN SPACE BUT CENTERED ON ADJACENT FEATURE

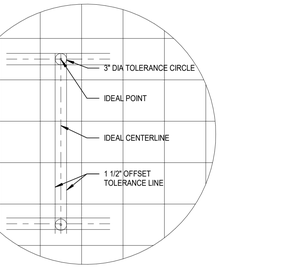
LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC) ALIGNED WITH ADJACENT ITEMS FOR WHICH DIMENSIONS OR RULES ARE PROVIDED. VISUAL ALIGNMENT IS CRITICAL. THE CONTRACTOR SHALL SELECT ONE ITEM IN EACH LINE (ON BASIS OF TOLERANCES, SEQUENCE OF CONSTRUCTION, TRADE, OR OTHER CRITERIA) TO SERVE AS THE BENCHMARK FOR EACH ALIGNMENT.



RULE 4

WHEN ALIGNED WITH OTHER FEATURES

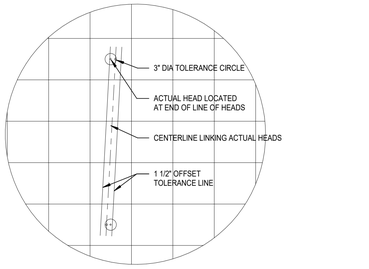
LOCATE ITEMS ALIGNED WITH OTHER ITEMS SHOWN DIMENSIONED ELSEWHERE IN SPACE (OR CEILING PLANE).



RULE 5

ALIGN WITH FEATURES SHOWN DIMENSIONED ELSEWHERE IN SPACE

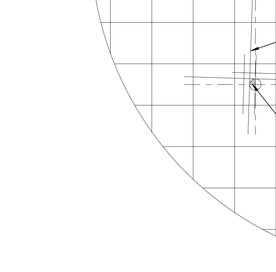
LOCATE ITEMS ALIGNED WITH OTHER ITEMS SHOWN DIMENSIONED ELSEWHERE IN SPACE (OR CEILING PLANE).



RULE 6

LOCATE FEATURES SYMMETRICALLY

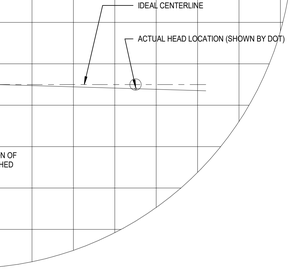
LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC) AT CENTER OF OF PANEL ON SQUARE GRID-TYPE CEILINGS



RULE 7

WHEN NOT DIMENSIONED BUT OCCURS ON A SQUARE GRID-TYPE CEILING

LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC) AT CENTER OF SHORT DIRECTION OF RECTANGULAR PANEL; LOCATE AT 1/4, 1/2, OR 3/4 POINT OF LONG DIRECTION OF RECTANGULAR PANEL



RULE 8

WHEN NOT DIMENSIONED BUT OCCURS ON A RECTANGULAR GRID-TYPE CEILING

TYPICAL TOLERANCES FOR LOCATING SPRINKLER HEADS

FOR MANY SPACES, THE ARCHITECTURAL REFLECTED CEILING PLANS ESTABLISH AN IDEAL PATTERN FOR LOCATING SPRINKLER HEADS. IN SPACES WHERE HEADS ARE SHOWN, FOLLOW PATTERN ESTABLISHED BY THE DRAWINGS. WHERE ADDL HEADS ARE REQUIRED TO CONFORM WITH CODE, PROVIDE HEADS IN GENERAL CONFORMITY WITH PATTERN ESTABLISHED BY THE DRAWINGS.

IN SPACES WHERE SPRINKLER HEADS ARE NOT SHOWN IN THE ARCHITECTURAL REFLECTED CEILING PLANS, PROVIDE HEADS AS REQUIRED BY CODE.

RULE 1

LOCATE HEADS AS SHOWN ON A-SERIES DRAWINGS

LOCATE SPRINKLER HEADS WITHIN 3" DIAMETER OF IDEAL POINT DIMENSIONED (OR SHOWN BY RULE) ON REFLECTED CEILING PLAN.

RULE 2

LOCATE HEADS WITHIN 3" DIAMETER OF IDEAL LOCATION POINT

RULES NO. 2, NO. 3, AND 4 WHEN COMBINED MAY RESULT IN MORE RESTRICTIVE TOLERANCES

RULE 5

RULES COMBINED

LOCATE SPRINKLER HEADS WITHIN 3" DIAMETER OF IDEAL POINT DIMENSIONED (OR SHOWN BY RULE) ON REFLECTED CEILING PLAN.

RULE 3

LOCATE LINES OF HEADS WITHIN 1 1/2" OF IDEAL CENTERLINE

LOCATE SPRINKLER HEADS WITHIN 3" DIAMETER OF IDEAL POINT DIMENSIONED (OR SHOWN BY RULE) ON REFLECTED CEILING PLAN.

RULE 4

LOCATE LINES OF HEADS WITHIN 1 1/2" OF LINE LINKING ACTUAL END HEADS

GENERAL NOTES

A. THE A-SERIES DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND LOCATION OF ALL EXPOSED ELEMENTS. THE A-SERIES DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND LOCATION OF ALL PARTS OF THE WORK.

   EXCEPTION: DIMENSIONED LOCATIONS SHOWN ON ON DRAWINGS OF OTHER DISCIPLINES SHALL GOVERN ONLY WHERE:

   1. SPECIFICALLY AND INDIVIDUALLY INDICATED BY SYMBOL, KEYED NOTE, OR NOTATION ON THE ARCHITECTURAL DRAWINGS.
   2. OCCURRING WITHIN A ROOM OR OTHER IDENTIFIABLE SPACE FOR WHICH ARCHITECTURE SHEET OR SCHEDULE NOTES INDICATE THAT DIMENSIONS PROVIDED ELSEWHERE SHALL GOVERN.

B. THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE THE TYPICAL RULES WHICH GOVERN THE LOCATION, CONFIGURATION IN RELATIONSHIP TO OTHER ELEMENTS OF THE WORK, AND FINISHED ALIGNMENT OF ALL ITEMS OCCURRING ON REFLECTED CEILING PLANS OF THE PROJECT.

C. THE A-SERIES FLOOR PLANS, REFLECTED CEILING PLANS, SECTIONS, ELEVATIONS, AND DETAILS ILLUSTRATE THE DIMENSIONED LOCATION OF MANY - BUT NOT ALL - EXPOSED PARTS OF THE WORK. APPLY THE RULES ON THIS SHEET - IN DESCENDING ORDER - TO DETERMINE THE LOCATION OF EXPOSED PART OF THE WORK.

   1. WHEN UNIQUELY AND SPECIFICALLY DIMENSIONED ON THE A-SERIES PLANS, SECTIONS, OR ELEVATIONS (OR COMBINATION THEREOF), LOCATE AS DIMENSIONED.
   2. IF NOT SHOWN, OR IF SHOWN BUT NOT DIMENSIONED, BY THE A-SERIES PLANS OR ELEVATIONS, LOCATE AS INDICATED BY THE APPLICABLE RULE.

D. REFER TO THE "ARCHITECTURAL GENERAL NOTES" FOR ADDITIONAL NOTES WHICH MAY BE APPLICABLE TO THE WORK SHOWN ON THIS SHEET.

E. REFER TO THE "PROJECT GENERAL NOTES" FOR ADDITIONAL NOTES WHICH APPLY TO THE ENTIRE PROJECT.

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REGISTERED ARCHITECT JUSTIN A. ALLEN 23632 STATE OF TEXAS
05/06/2025

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Project Number

TYPICAL REFLECTED CEILING PLAN RULES

A3.0

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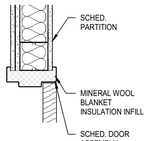
DOOR AND FRAME SCHEDULE

NUMBER	PANEL NO. OF PANELS	PANEL WIDTH	PANEL HEIGHT	PANEL THICKNESS	PANEL MATERIAL	PANEL GLASS	PANEL TYPE	FRAME MATERIAL	FRAME TYPE	FIRE RATING	HARDWARE SET	DETAILS HEAD	DETAILS JAMB LEFT	DETAILS JAMB RIGHT	DETAILS SILL	COMMENTS
131	1	3' - 0"	7' - 0"	1 3/4"	WD		F	HM	1		341-STF	2A/A8.2	3A/A8.2	3A/A8.3	4A/A8.2	DOOR PLAM TO MATCH EXISTING
132	1	3' - 0"	7' - 0"	1 3/4"	WD		F	HM	1		N/A	2A/A8.2	3A/A8.2	3A/A8.3	4A/A8.2	DOOR PLAM TO MATCH EXISTING. REUSE EXISTING DOOR HARDWARE FOR REINSTALLATION.
226	1	3' - 0"	7' - 0"	1 3/4"	WD		F	HM	1		801	2A/A8.2	3A/A8.3	3A/A8.3	4A/A8.2	DOOR PLAM TO MATCH EXISTING
227	1	3' - 0"	7' - 0"	1 3/4"	WD		F	HM	1		801	2A/A8.2	3A/A8.3	3A/A8.3	4A/A8.2	DOOR PLAM TO MATCH EXISTING
249	1	3' - 0"	7' - 0"	1 3/4"	WD		F	HM	1		801	2A/A8.2	3A/A8.2	3A/A8.3	4A/A8.2	DOOR PLAM TO MATCH EXISTING
250	1	3' - 0"	7' - 0"	1 3/4"	WD		F	HM	1		801	2A/A8.2	3A/A8.2	3A/A8.3	4A/A8.2	DOOR PLAM TO MATCH EXISTING

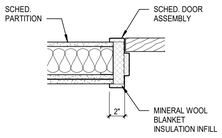
5

NOTE:
GC TO PAINT ALL DOOR FRAMES AND CASED OPENINGS TOUCHED BY THIS RENOVATION PROJECT (EXISTING OR NEW), TO MATCH ADJACENT WALL COLOR.

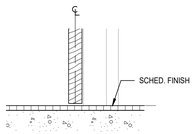
GC TO FIELD VERIFY EXISTING DOOR OPENINGS AND COORDINATE NEW OPENINGS WITH EXISTING.



2A / A8.2 HM DOOR HEAD
SCALE: 1 1/2" = 1'-0"



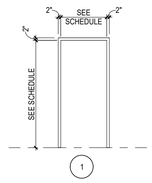
3A / A8.2 HM DOOR JAMB
SCALE: 1 1/2" = 1'-0"



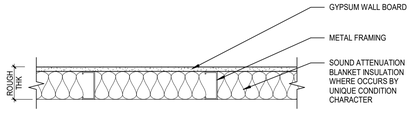
4A / A8.2 HM DOOR SILL
SCALE: 1 1/2" = 1'-0"

F
FLUSH PANEL

DOOR PANEL TYPES

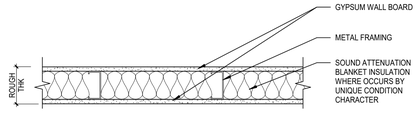


INTERIOR FRAME TYPES



S_-_-1_ NON-RATED STUD PARTITION

MARK			ROUGH THICKNESS	FIRE/SMOKE RATING	FIRE/SMOKE TESTED ASSEMBLIES	SOUND STC RATING	SOUND TESTED ASSEMBLIES	T.O. WALL DETAIL	B.O. WALL DETAIL	COMMENTS
SA	2	10	3 1/8"	NR	NA					
SA	3	10	4 1/4"	NR	NA					



S_-_-2_ NON-RATED STUD PARTITION

MARK			ROUGH THICKNESS	FIRE/SMOKE RATING	FIRE/SMOKE TESTED ASSEMBLIES	SOUND STC RATING	SOUND TESTED ASSEMBLIES	T.O. WALL DETAIL	B.O. WALL DETAIL	COMMENTS
SA	3	20	4 7/8"	NR	NA					
SA	6	20	7 1/4"	NR	NA					

DOOR AND FRAME SCHEDULE GENERAL NOTES

A. ALL EXTERIOR HOLLOW METAL FRAMES SHALL BE FILLED WITH INSULATION.
B. ALL INTERIOR HOLLOW METAL FRAMES SET IN MASONRY AND CONCRETE WALLS SHALL BE GROUTED SOLID.
C. ALL HOLLOW METAL FRAMES SET IN METAL STUD WALLS SHALL BE FILLED WITH MINERAL WOOL BLANKET INSULATION.
D. ALL EXTERIOR FRAMES SHALL BE INSTALLED WITH 1/4" SHIM AND SEALANT AROUND PERIMETER OF FRAME.
E. MASONRY LINTELS AND STEEL LINTELS ARE SHOWN ON STRUCTURAL DRAWINGS.
F. GLASS TYPES FOR DOORS ARE INDICATED IN THE DOOR GLAZING COLUMN OF THE DOOR AND FRAME SCHEDULE. GLASS TYPES FOR FRAMES ARE INDICATED ON THE FRAME ELEVATIONS.
G. FOR COILING DOORS, GRILLES AND SECTIONAL DOORS, WIDTH AND HEIGHT DIMENSIONS SHOWN IN DOOR AND FRAME SCHEDULE REPRESENT FINISHED OPENING SIZE. CONTRACTOR TO COORDINATE EXACT SIZE OF DOOR WITH MANUFACTURER.
H. FRAME MANUFACTURER SHALL COORDINATE LOCATIONS OF ALL CONCEALED CONDUIT AND J-BOXES REQUIRED FOR SECURITY SYSTEM HARDWARE PRIOR TO MANUFACTURING OF HOLLOW METAL FRAMES AND COORDINATE WITH SECURITY HARDWARE AND DEVICES.
I. PROVIDE HEAD RECEIVERS AT ALUMINUM STOREFRONTS AND CURTAIN WALLS AS REQUIRED FOR STRUCTURAL DEFLECTION ALLOWANCE.
J. SEE SPECIFICATIONS HARDWARE SECTION FOR HARDWARE SETS NOTED IN DOOR AND FRAME SCHEDULE.

DOOR PANEL TYPE DESCRIPTIONS

DG	DUAL LITE GLASS
F	FLUSH PANEL
FG	FULL LITE GLASS
FL	FULL LOUVERED
G	HALF LITE GLASS
GL	HALF LITE GLASS & LOUVERED
L	LOUVERED (BOTTOM)
LL	LOUVERED (TOP & BOTTOM)
N	NARROW LITE GLASS
NL	NARROW LITE GLASS & LOUVERED
TL	LOUVERED (TOP)
V	VISION LITE GLASS (10" SQUARE)
VL	VISION LITE GLASS & LOUVERED

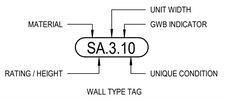
PARTITION TYPES DESCRIPTIONS

MATERIAL DESCRIPTION
S = STEEL (METAL STUDS)
W = WOOD STUDS
H = SHAFT WALLS
M = MASONRY
C = CONCRETE

RATING / HEIGHT
A = FULL HEIGHT / UNDERSIDE OF STRUCT (NOT RATED)
B = 6" ABOVE CEILING (NOT RATED)
C = UNDERSIDE OF CEILING (NOT RATED)
D = PARTIAL HEIGHT (NOT RATED)
X = VARIABLE HEIGHT (NOT RATED)
S = SMOKE PARTITON (NOT RATED)
0 = 0 HOUR RATED (CORRIDOR)
.5 = 0.5 HOUR RATED
1 = 1 HOUR RATED
2 = 2 HOUR RATED
3 = 3 HOUR RATED
4 = 4 HOUR RATED

UNIT WIDTH / CONFIGURATION
F = FURRING STRIPS / CHANNELS
1 = 1 5/8" METAL
2 = 2 1/2" METAL / 1 1/2" WOOD
3 = 3 5/8" METAL
4 = 4" METAL / 3 1/2 WOOD / 3 5/8" CMU
6 = 6" METAL / 5 1/2" WOOD / 5 5/8" CMU / 6" CONC
8 = 8" METAL / 7 1/4" WOOD / 7 5/8" CMU / 8" CONC
10 = 10" CONC
12 = 11 5/8" CMU / 12" CONC
X = NON-STANDARD WIDTH, SEE DETAILS
D = DOUBLE STUD FRAMING
S = STAGGERED STUD FRAMING

GYPSUM WALLBOARD INDICATOR
(NOT INCLUDING SHAFT LINER)
0 = NO GWB
1 = ONE LAYER, TAG SIDE
2 = ONE LAYER, EACH SIDE
3 = TWO LAYERS TAG SIDE, ONE LAYER OTHER
4 = TWO LAYERS, EACH SIDE
5 = TWO LAYERS TAG SIDE, NO GWB OTHER
6 = THREE LAYERS, EACH SIDE



WALL TYPE TAG

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REGISTERED ARCHITECT JUSTIN A. LEE 23632 STATE OF TEXAS
05/06/2025

SMITH E.S. - RESTROOM RENOVATIONS
ALIEF INDEPENDENT SCHOOL DISTRICT
1300 STANCLIFF RD
HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
05.06.2025

REVISIONS

2	ADD 2	08-05-25	RAS COMMENTS
3	ADD 5	10-31-25	CLIENT VE
4	6	02-11-26	ISSUE FOR BID & PERMIT
5	ADD 7	04-06-26	OWNER VE

Project Number

DOOR & FRAME TYPE & SCHEDULE

A8.2

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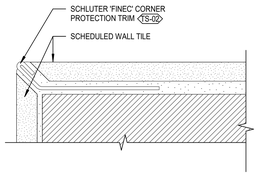
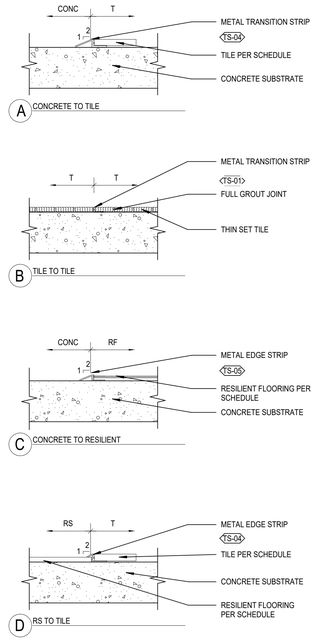
FINISH SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR/FINISH	SIZE	COMMENTS
093013 TILING, GROUT & METAL TRIM ACCESSORIES						
CT-01	CERAMIC TILE	DALTILE	COLOR WHEEL CLASSIC	MATTE DESERT GRAY X714	4X4	RESTROOM WALL TILE, WATER-RESISTANT GYPSUM BOARD SHALL BE USED AS A BASE FOR WALL TILE AS SPECIFIED.
CT-02	CERAMIC TILE	DALTILE	COLOR WHEEL CLASSIC	WATERFALL 0169	4X4	RESTROOM ACCENT WALL TILE, WATER-RESISTANT GYPSUM BOARD SHALL BE USED AS A BASE FOR WALL TILE AS SPECIFIED.
G-01	GROUT	LATICRETE	PERMACOLOR	RAVEN 45		1/8" GROUT JOINT THICKNESS
PT-01	PORCELAIN TILE	DALTILE	COLOR WHEEL CLASSIC	MATTE CHARCOAL 0780	2X2	RESTROOM FLOOR TILE, CLASS A FOR ASTM E84 & CLASS II FOR MINIMUM CRITICAL RADIANT FLUX
TS-1	METAL TRIM ACCESSORY	SCHLUTER	METAL COVE SHAPED TRIM - DILEX-AHK			AT BOTTOM OF WALL TILES
TS-2	METAL TRIM ACCESSORY	SCHULTER	FINEC			AT OUTSIDE CORNERS EDGES
099124 PAINTING						
P-01	CEILING PAINT	BENJAMIN MOORE	LOW VOC, PREMIUM PAINT	BABY'S BREATH CEILING, EGGSHELL FINISH		CLASS A FOR ASTM E84
P-02	WALL PAINT	BENJAMIN MOORE	LOW VOC, PREMIUM PAINT	DECORATOR'S WHITE CC-20; SEMI-GLOSS FINISH		CLASS A FOR ASTM E84
102100 TOILET COMPARTMENTS						
TC-01	TOILET COMPARTMENT	ASI PARTITIONS	SOLID PLASTIC (HDPE)	AZURE 9231		FLOOR ANCHORED; TOP BRACED, CLASS A FOR ASTM E84
PLASTIC LAMINATE LEGEND. SPEC SECTIONS: 064023, 064116, 123213, 123623.13						
PL-01	PLASTIC LAMINATE	WILSONART		MATCH NEW LIBRARY SIGNAGE		FOR ROOM SIGNAGE



2C A12.01 OUTER CORNER TILE TRANSITION
SCALE: 12" = 1'-0"



2D A12.01 FLOOR TRANSITION DETAILS
SCALE: 1 1/2" = 1'-0"

FINISH SCHEDULE GENERAL NOTES

A. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED IN THE ROOM FINISH SCHEDULE OR FINISH PLANS.
B. EXPOSED CONCRETE FLOORS NOT SHOWN TO RECEIVE A FINISH SHALL RECEIVE LIQUID FLOOR TREATMENT OR CURING AND SEALING COMPOUND UNLESS NOTED OTHERWISE. SEE SPEC SECTION 033000.
C. ALL GYPSUM WALLBOARD BULKHEADS SHALL BE PAINTED P-01 UNLESS NOTED OTHERWISE.
D. SEE REFLECTED CEILING PLANS FOR CEILING MATERIAL AND HEIGHT.
E. CEILING HEIGHTS, AS NOTED ON THE REFLECTED CEILING PLANS, ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
F. NOT USED.
G. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR.
H. SEE SHEET XX.X FOR TYPICAL TACKWALL DETAILS.
I. SEE SHEET XX.X FOR ACOUSTICAL WALL PANEL ELEVATIONS AND DETAILS.

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05/06/2025

SMITH E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

11300 STANCLIFF RD
HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
05.06.2025

REVISIONS
1 ADD 1 09-16-25 COH COMMENTS
4 6 02-11-26 ISSUE FOR BID & PERMIT

Project Number

FINISH SCHEDULES

A12.01

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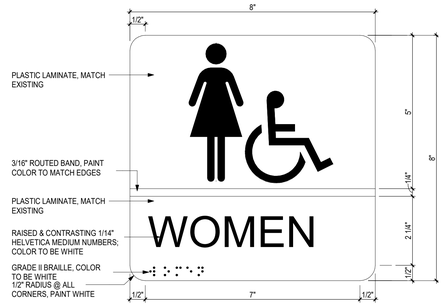
ROOM SIGN SCHEDULE				
CONSTRUCTION ROOM NUMBER (FOR CONSTRUCTION PURPOSES ONLY)	CONSTRUCTION ROOM NAME (FOR CONSTRUCTION PURPOSES ONLY)	ALIEF ISD ROOM SIGN NUMBER (FOR ROOM SIGNAGE INSTALLATION)	ALIEF ISD ROOM SIGN NAME (FOR ROOM SIGNAGE INSTALLATION)	SIGN TYPE
130	WOMEN'S			A
131	MEN'S			B
207A	GIRLS			A
207B	BOYS			B
207C	STORAGE			
226	BOYS			B
227	GIRLS			A
249	GIRLS			A
250	BOYS			B

NOTE: ACTUAL ROOM NUMBERS AND ROOM NAMES TO BE PROVIDED AT LATER DATE.

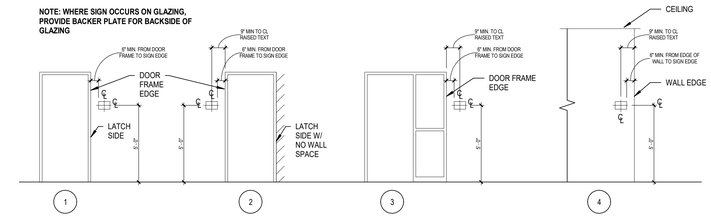


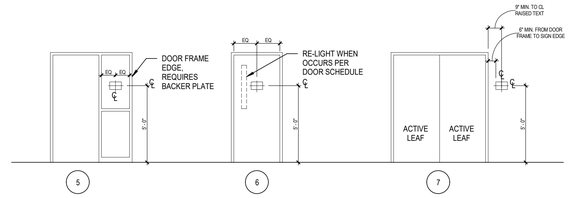
TYPE A (SHOWN) - WOMEN
TYPE B - MEN

SIGN TYPE A & B - TOILET SIGN

SCALE: 6" = 1'-0"

NOTE: WHERE SIGN OCCURS ON GLAZING, PROVIDE BACKER PLATE FOR BACKSIDE OF GLAZING





SIGN MOUNTING HEIGHTS

SCALE: 1/4" = 1'-0"

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REGISTERED ARCHITECT
JUSTIN A. ABRAM
23632
STATE OF TEXAS
05/06/2025

SMITH E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

1300 STANCLIFF RD
HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
05.06.2025

REVISIONS
4 6 02-11-26 ISSUE FOR BID & PERMIT
5 ADD 7 04-06-26 OWNER VE

Project Number

SIGNAGE PLAN

A14.1

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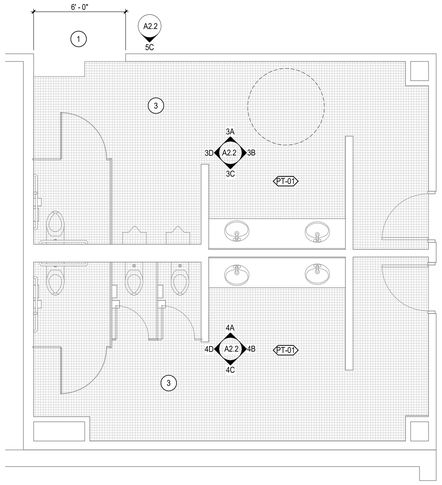
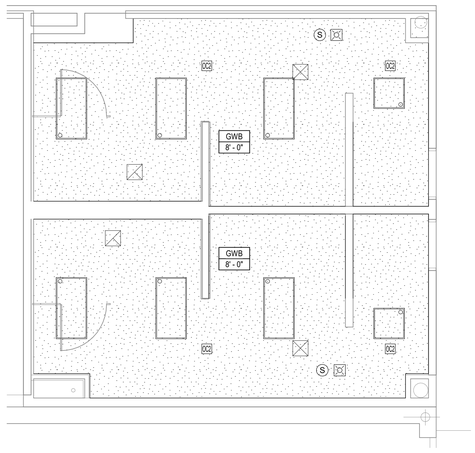
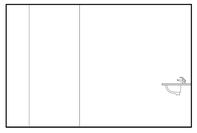


2A A2.2 ENLARGED FLOOR PLAN - MEN'S 410 / WOMEN'S 411
SCALE: 1/4" = 1'-0"

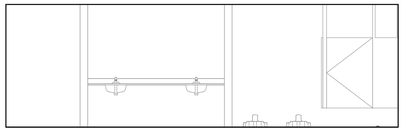


2B A2.2 ENLARGED RCP - MEN'S 410 / WOMEN'S 411
SCALE: 1/4" = 1'-0"

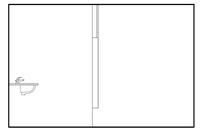
3A A2.2 410 - MEN'S - NORTH
SCALE: 1/4" = 1'-0"



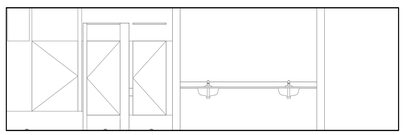
3B A2.2 410 - MEN'S - EAST
SCALE: 1/4" = 1'-0"



3C A2.2 410 - MEN'S - SOUTH
SCALE: 1/4" = 1'-0"

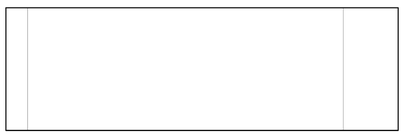


3D A2.2 410 - MEN'S - WEST
SCALE: 1/4" = 1'-0"

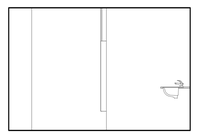


4A A2.2 411 - WOMEN'S - NORTH
SCALE: 1/4" = 1'-0"

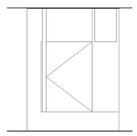
4B A2.2 411 - WOMEN'S - EAST
SCALE: 1/4" = 1'-0"



4C A2.2 411 - WOMEN'S - SOUTH
SCALE: 1/4" = 1'-0"



4D A2.2 411 - WOMEN'S - WEST
SCALE: 1/4" = 1'-0"



5C A2.2 NEW DRINKING FOUNTAIN AT 410
SCALE: 1/4" = 1'-0"

SHEET NOTES

1 NEW BOTTLE FILLER DRINKING FOUNTAIN. REFER MEP DRAWINGS. TOUCH UP, REPAIR AND PREP WALL FOR NEW FINISH WHERE EXISTING DRINKING FOUNTAIN WAS REMOVED.

3 GRAB BARS (GB): PROVIDE INSTALLATION ANCHORING SPECIFICATIONS AS REQUIRED BY MANUFACTURER'S STANDARDS FOR GRAB BARS, SHOWER SEATS AND DRESSING ROOM BENCH SEAT SYSTEMS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 LBS APPLIED IN ANY DIRECTION AT ANY POINT PER SECTION 1607.8.2.

4 GC TO PROVIDE ADA CANE DETECTION APRON AT HIGH SIDE OF DRINKING FOUNTAIN.

GENERAL ARCHITECTURAL NOTES

1. ALL INTERIOR CMU WALLS SHALL BE 8 INCHES NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
2. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS (XX.X.XX) THUS: SEE SHEET A8.2 FOR TYPES. ALL INTERIOR PARTITIONS ARE TYPE SA.3.20 UNLESS NOTED OTHERWISE.
3. ALL MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE, PER PARTITION TYPE.
4. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS.
5. NOT USED.
6. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
7. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
8. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE (CJA) SHALL BE LOCATED AS SHOWN ON THE FLOOR PLAN AND BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON THE CONCRETE FLOOR SLAB ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS.
9. NOT USED.
10. EXTEND FURRING CHANNELS AND GYPSUM BOARD UP 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS.
11. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
12. NOT USED.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.

REFLECTED CEILING PLAN LEGEND

CEILING TYPES

GWB, GYPSUM BOARD CEILING

XXX CEILING TYPE
X'-XX" CEILING HEIGHT

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE
BCS	BABY CHANGING STATION
EWC	ELECTRIC WATER COOLER
FSS	FOLDING SHOWER SEAT
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
GB-3	GRAB BAR (VERTICAL)
GB-4	GRAB BAR (AMBULATORY STALL)
GB-5	GRAB BAR (SHOWER)
GB-6	GRAB BAR (BACK WALL 24")
GB-7	GRAB BAR (BACK WALL 12")
HD	HAND DRYER
LAV	LAVATORY
MBH	MOP/BROOM HOLDER
MR	MIRROR
MR/S	MIRROR WITH SHELF
PTD	PAPER TOWEL DISPENSER
PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
RH	ROBE HOOK
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
SNV	SANITARY NAPKIN VENDOR
SSS	STAINLESS STEEL SHELF
TTD	TOILET TISSUE DISPENSER
US	UTILITY SHELF
WC	WATER CLOSET
WR	WASTE RECEPTACLE

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REGISTERED ARCHITECT RAS RAM JUSTIN 23632 STATE OF TEXAS
05/06/2025

SMITH E.S. - RESTROOM RENOVATIONS
ALIEF INDEPENDENT SCHOOL DISTRICT
11300 STANCLIFF RD
HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
05.06.2025
REVISIONS
1 ADD 1 06-16-25 COH COMMENTS
2 ADD 2 08-05-25 RAS COMMENTS

Project Number

ENLARGED FLOOR PLANS AND ELEVATIONS

A2.2

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ABBREVIATIONS

A

A	AIR (COMPRESSED)
ABV	ABOVE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT, AIR COMPRESSOR
ACCH	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR, AREA DRAIN
ADJ	ADJUSTABLE
AF	AIR FILTER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHRI	AIR-CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMB	AMBIENT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARCH	ARCHITECT, ARCHITECTURAL
AS	AIR SEPARATOR
ASHP	AIR SOURCE HEAT PUMP
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AVG	AVERAGE
AWS	AMERICAN WELDING SOCIETY
AUX	AUXILIARY

B

B	BOILER
BC	BELOW COUNTER
B/C	BACK OF CURB
BFF	BELOW FINISHED FLOOR
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BM	BENCHMARK
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BP	BACKFLOW PREVENTER
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE

C

C	CELSIUS
CAB	CABINET
CD	CONDENSATE DRAIN LINE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CH	CHILLER
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CHW	CHILLED WATER
CHWP	CHILLED WATER PUMP
CI	CAST IRON
CIRC	CIRCULATING
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESSOR
CONC	CONCRETE, CONCENTRIC
COND	CONDENSER, CONDENSATE
CONN	CONNECTION
CONT	CONTINUOUS,CONTINUATION
CTR	CENTER
CU	COPPER
CV	CONSTANT VOLUME

D

D	DEPTH, DRAIN, DRYER
DB	DRY BULB
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DDMB	DUAL DUCT MIXING BOX
DESIG	DESIGNATION
DTL	DETAIL
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DPR	DAMPER
DW	DISHWASHER
DWG	DRAWING
DX	DIRECT EXPANSION

E

EA	EACH
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
EDB	ENTERING DRY BULB
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EMERG	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETD	EXISTING TO BE DEMOLISHED
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORATOR
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EX	EXPLOSION PROOF
EXT	EXTERNAL
EXTG	EXISTING

F

F	FAHRENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCU	FAN COIL UNIT
FD	FLOOR DRAIN, FIRE DAMPER
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FPTU	FAN POWERED TERMINAL UNIT
FT	FOOT, FEET
FUT	FUTURE

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLV	GLOBE VALVE
GND	GROUND
GPM	GALLONS PER MINUTE
GUH	GAS UNIT HEATER
GV	GATE VALVE

H

HDT	HORIZONTAL DRAW THROUGH
HORIZ	HORIZONTAL
HP	HORSEPOWER, HEAT PUMP
HSTAT	HUMIDISTAT
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HWP	HEATING WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IH	INFRARED HEATER
IN	INCH
INSUL	INSULATION
INT	INTERNAL, INTERIOR

K

KEC	KITCHEN EQUIPMENT CONTRACTOR
KO	KNOCKOUT
KVA	KILOVOLT- AMPS
KW	KILOWATT

L

L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LF	LINEAR FEET
LP	LOW PRESSURE
LRA	LOCKED ROTOR AMPS
LVL	LEVEL
LWB	LEAVING WET BULB
LWCO	LOW WATER CUT OFF
LWT	LEAVING WATER TEMPERATURE

M

MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MI	MALLEABLE IRON
MIN	MINIMUM
MP	MEDIUM PRESSURE
MTD	MOUNTED
MU	MAKE-UP
MVD	MANUAL VOLUME DAMPER
MSAH	MINI-SPLIT AIR HANDLER
MSCU	MINI-SPLIT CONDENSING UNIT
MZ	MULTI-ZONE

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE

O

OA	OUTSIDE AIR
OAF	OUTSIDE AIR FAN
OAHU	OUTSIDE AIR HANDLING UNIT
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OFCU	OUTSIDE AIR FAN COIL UNIT
OPG	OPENING
OS&Y	OUTSIDE SCREW AND YOKE

P

PG	PRESSURE GAUGE
PP	POLYPROPYLENE
PPM	PART PER MILLION
PRI	PRIMARY
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE

Q

QTY	QUANTITY

R

RA	RETURN AIR
RAD	REFRIGERATED AIR DRYER
RAF	RETURN AIR FAN
RAG	RETURN AIR GRILLE
RAT	RETURN AIR TEMPERATURE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE	REFERENCE, REFER
RED	REDUCER
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION, REVISE
RH	RELATIVE HUMIDITY
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RLA	RUNNING LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SAG	SUPPLY AIR GRILLE
SAR	SUPPLY AIR REGISTER
SC	STEAM CONDENSATE
SCHED	SCHEDULED
SEC	SECONDARY
SECT	SECTION
SENS	SENSIBLE
SF	SQUARE FEET
SFCS	SPRINKLER FLOOR CONTROL STATION
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SM	SHEETMETAL
SP	STATIC PRESSURE, SUMP PUMP
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	STAINLESS STEEL
SSSC	SOLID STATE SPEED CONTROL
STD	STANDARD
STL	STEEL
STM	STEAM
STR	STRAINER
SURF	SURFACE
SUSP	SUSPEND
SV	SANITARY VENT
SW	SOFT WATER
SZ	SINGLE ZONE

T

TC	TEMPERATURE CONTROL
TDH	TOTAL DYNAMIC HEAD
TF	TRANSFER FAN
TH BLK	THRUST BLOCK
THERM	THERMOMETER
TMV	THERMOSTATIC MIXING VALVE
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TW	TEMPERED HOT WATER
TYP	TYPICAL

U

UCD	UNDER CUT DOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC
UNO	UNLESS NOTED OTHERWISE
U/F	UNDERFLOOR
U/S	UNDERSLAB

V

V	VOLT
VA	VOLT- AMPERE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VB	VALVE BOX, VACUUM BREAKER
VD	VOLUME DAMPER
VDT	VERTICAL DRAW THROUGH
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIB	VALVE IN BOX
VOV	VALVE ON VERTICAL
VP	VACUUM PUMP
VRF	VARIABLE REFRIGERANT FLOW
VVR	VARIABLE AIR VOLUME REHEAT

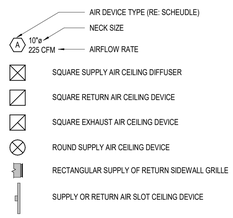
W

W	WATT, WIDTH
W/	WITH
W/O	WITHOUT
WB	WET BULB
WM	WATER METER
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WSHP	WATER SOURCE HEAT PUMP
WWF	WELDED WIRE FABRIC

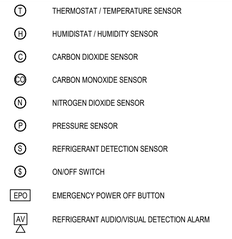
Z

Z	ZONE

AIR DEVICE TYPES



WALL MOUNTED SENSOR AND DEVICE TYPES



CONTROLS SCHEMATIC SYMBOLS LEGEND

AI	ANALOG INPUT	FS	FLOW SWITCH
AO	ANALOG OUTPUT	DAT	DISCHARGE AIR TEMPERATURE SENSOR
DI/BI	DIGITAL/BINARY INPUT	S	WALL SENSOR
DO/BO	DIGITAL/BINARY OUTPUT	T	THERMOSTAT
MD	ON-OFF MOTORIZED DAMPER	CO2	CARBON DIOXIDE SENSOR
MMD	MODULATING TYPE MOTORIZED DAMPER	SP	SET POINT
AFMS	AIR FLOW MEASURING STATION	S/A	SUPPLY AIR
MCV	CONTROL VALVE MODULATING TYPE	R/A	RETURN AIR
VFD	VARIABLE FREQUENCY DRIVE	O/A	OUTSIDE AIR
CSR	CURRENT SENSING RELAY	HC	HEATING COIL
FRZ	FREEZESTAT	CC	COOLING COIL
HSL	HIGH STATIC LIMIT	DX	DIRECT EXPANSION COOLING COIL
SPT	STATIC PRESSURE TRANSMITTER	PICCV	PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE
DPT	DIFFERENTIAL PRESSURE TRANSDUCER	AFC	AIRFLOW CROSS
FM	FLOW METER	DPS	DIFFERENTIAL PRESSURE SWITCH

PIPING TYPES

CD	CONDENSATE DRAIN LINE	REF	REFRIGERANT PIPING SIZED BY MFR.
CHS	CHILLED WATER SUPPLY	HPS	HIGH PRESSURE STEAM SUPPLY
CHR	CHILLED WATER RETURN	HPR	HIGH PRESSURE CONDENSATE RETURN
HWS	HOT WATER SUPPLY	LPS	LOW PRESSURE STEAM SUPPLY
HWR	HOT WATER RETURN	LPR	LOW PRESSURE CONDENSATE RETURN
CWS	CONDENSER WATER SUPPLY	PCR	PUMPED CONDENSATE RETURN
CWR	CONDENSER WATER RETURN		

DESIGN CRITERIA

LOCATION:
11300 STANCLIFF RD
HOUSTON, TX 77099

DESIGN CONDITIONS:

HEATING DB:	31.4 °F (ASHRAE 99.6%)
COOLING DB / WB:	97.6 °F / 76.6 °F (ASHRAE 0.4%)
DEHUMIDIFICATION DP / DB:	78.3 °F / 82.9 °F (ASHRAE 0.4%)

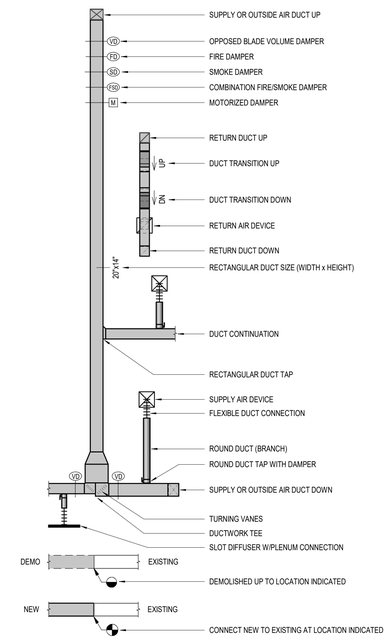
SPACE INDOOR DESIGN TEMPERATURE:

HEATING DB:	70 °F
COOLING DB:	75 °F
RELATIVE HUMIDITY	55%

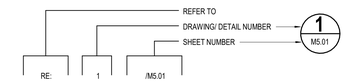
BUILDING CODES & STANDARDS

APPLICABLE CODES:
2021 INTERNATIONAL BUILDING CODE (WITH HOUSTON AMENDMENTS)
2021 INTERNATIONAL FIRE CODE (WITH HOUSTON AMENDMENTS)
2021 UNIFORM MECHANICAL CODE (WITH HOUSTON AMENDMENTS)
2021 UNIFORM PLUMBING CODE (WITH HOUSTON AMENDMENTS)
2021 INTERNATIONAL ENERGY CONSERVATION CODE (WITH HOUSTON AMENDMENTS)
2023 NATIONAL ELECTRICAL CODE (STATE MANDATED)

DUCTWORK



DRAWING/DETAIL REFERENCE KEY



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HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
10-31-25

REVISIONS

2	02-11-26	ISSUE FOR BID & PERMIT
3	04-06-26	OWNER VE

39-25156-00

MECHANICAL SYMBOL LEGEND

M0.01

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DEMO/RENO MECHANICAL GENERAL NOTES

A. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR SCOPE OF DEMOLITION WORK. EXACT LOCATIONS, CONDITIONS, PHASING, CONSTRUCTION SCHEDULING, AND ANY ADDITIONAL DEMOLITION NOTES, REQUIREMENTS, ETC.

B. MECHANICAL DEMOLITION DRAWINGS ARE GENERALLY DIAGRAMMATIC AND IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT ALL MECHANICAL SYSTEMS SHALL REMAIN UNLESS NOTED TO BE REMOVED OR DEMOLISHED. VERIFY EXACT LOCATIONS AND CONDITIONS AND COORDINATE WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO REMOVING ANY EXISTING ITEMS. DO NOT ABANDON ANY ITEMS IN PLACE.

C. EQUIPMENT, DUCTWORK, PIPING, ETC. INDICATED AS EXISTING (E) SHALL REMAIN AND BE RE-USED IN EXISTING LOCATIONS. IF EXISTING ITEMS CONFLICT WITH NEW CONSTRUCTION, CONTRACTOR SHALL RELOCATE, REWORK, REROUTE, RECONNECT, AND REINSTALL COMPLETELY AS REQUIRED AS IF NEW AT NO ADDITIONAL COST. COORDINATE WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, ARCHITECT, ETC. PRIOR TO RELOCATION. REFER TO APPLICABLE NOTES FOR NEW ITEMS.

D. EQUIPMENT, DUCTWORK, PIPING ETC. INDICATED AS EXISTING TO BE DEMOLISHED (D) SHALL BE REMOVED IN THEIR ENTIRETY. ALL APPURTENANCES, RELATED COMPONENTS, INCLUDING ALL DUCTWORK, PIPING, SUPPORTS, HANGERS, CONTROLS, ETC. ASSOCIATED WITH EACH ITEM SHALL BE REMOVED UNLESS NOTED OTHERWISE. CAP ALL DUCTWORK AND PIPING AS REQUIRED SERVING EACH ITEM AT BUILDING MAINS. VERIFY EXACT LOCATIONS AND CONDITIONS AND COORDINATE WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO REMOVING ANY EXISTING ITEMS. DO NOT ABANDON ANY ITEMS IN PLACE.

E. WHERE CONSTRUCTION, EXISTING DUCTWORK, MECHANICAL / PLUMBING / FIRE SPRINKLER PIPING, ELECTRICAL CONDUIT, CABLING, ETC. WHICH MUST REMAIN AS PART OF AN ACTIVE SYSTEM CONFLICTS WITH NEW CONSTRUCTION, CONTRACTOR SHALL RELOCATE, REWORK, REROUTE, RECONNECT, AND REINSTALL COMPLETELY AS REQUIRED AS IF NEW AT NO ADDITIONAL COST. COORDINATE WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, ARCHITECT, ETC. PRIOR TO RELOCATION. REFER TO APPLICABLE NOTES FOR NEW ITEMS.

F. CONTRACTOR SHALL COORDINATE WITH EACH TRADE CONTRACTOR FOR REMOVAL OF EXISTING ELECTRICAL AND PLUMBING SERVICES INCLUDING ALL CONDUIT, WIRING, PIPING, INSULATION, APPURTENANCES, RELATED COMPONENTS, ETC. ASSOCIATED WITH REMOVAL OF EXISTING MECHANICAL EQUIPMENT. VERIFY EXACT LOCATIONS AND CONDITIONS AND COORDINATE WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO REMOVING ANY EXISTING ITEMS. DO NOT ABANDON ANY ITEMS IN PLACE.

G. THESE DRAWINGS WERE PREPARED FROM THE BEST INFORMATION AVAILABLE, ORIGINAL DRAWINGS, FIELD OBSERVATIONS, ETC., BUT MAY NOT INDICATE THE EXACT LOCATION OF ALL EXISTING MECHANICAL COMPONENTS. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE EXISTING CONDITIONS SURROUNDING THE INSTALLATION OF THEIR WORK PRIOR TO PROCEEDING WITH THE INSTALLATION. MODIFICATIONS REQUIRED DUE TO EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER / OWNER FOR REVIEW BY WAY OF SHOP DRAWINGS OR SKETCHES DETAILING THE EXISTING CONDITIONS AND THE PROPOSED REVISION.

H. CONTRACTOR SHALL BE RESPONSIBLE TO VISIT THE JOBSITE, COMPLETELY REVIEW CONTRACT DOCUMENTS, AND FIELD VERIFY EXTENT OF WORK AND EXACT LOCATIONS AND CONDITIONS OF ALL NEW AND EXISTING CONSTRUCTION, ELEVATIONS, SERVICE POINTS, ETC. AS REQUIRED FOR A COMPLETE AND CORRECTLY OPERATING SYSTEM. CONTACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, AND REPORT IN WRITING ANY CONFLICTS, PROBLEMS, OR ANY CONDITION THAT MAY ADVERSELY AFFECT THE PROPER EXECUTION OF THE WORK THAT IS NOT INDICATED ON THE DRAWINGS. THIS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR MAKING ANY CORRECTIONS OR ALTERATIONS DEEMED NECESSARY TO COMPLETE THE WORK AND SHALL INCLUDE ALL ASSOCIATED COSTS IN THEIR BID WITH NO ADDITIONAL EXPENSE.

I. CONTRACTOR SHALL COORDINATE ALL CUTTING AND PATCHING OF EXISTING WALLS, CEILINGS, ROOF AND FLOOR REQUIRED FOR THEIR WORK WITH GENERAL CONTRACTOR, STRUCTURAL ENGINEER, AND OWNER'S REPRESENTATIVE. ALL PENETRATIONS SHALL BE SEALED AND RESTORED TO THE ORIGINAL CONDITIONS, STRUCTURAL PROPERTIES, AND FINISHED IN SAME MATERIALS AND MANNER AS ADJACENT AREAS. ALL ROOF PENETRATIONS, ROOF PIPE SUPPORTS, FLASHINGS, ETC. SHALL BE MADE WATERTIGHT AND AS RECOMMENDED BY THE ROOF MANUFACTURER. ALL EXISTING PENETRATIONS WHICH ARE NOT TO BE REUSED SHALL BE PROPERLY SEALED OFF TO MAINTAIN THE STRUCTURAL, WATERPROOF, AND FIREPROOF INTEGRITY OF THE WALL, FLOOR, OR ROOF SYSTEM PENETRATED.

J. COORDINATE ALL RENOVATIONS / REMODEL / DEMOLITION WORK WITH THE OWNER'S REPRESENTATIVE, BUILDING ENGINEER / MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT, FIXTURES, OR SYSTEMS THAT WILL AFFECT OTHER SYSTEM WITHIN THE AREA OF CONSTRUCTION, OR OTHER AREAS OF THE BUILDING. CONTRACTOR SHALL NOTE THAT THE BUILDING IS OCCUPIED, AND WILL REMAIN SO DURING CONSTRUCTION; AND, THEREFORE, UTILITIES / BUILDING SYSTEMS MUST REMAIN IN OPERATION. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE AND BUILDING ENGINEER / MAINTENANCE PERSONNEL. PROVIDE TEMPORARY CONNECTIONS OF UTILITIES AND AIR CONDITIONING AS NECESSARY TO FACILITATE THE PHASING OF CONSTRUCTION.

K. ALL WORK SHALL BE SCHEDULED AND PERFORMED IN STRICT COORDINATION WITH CONSTRUCTION PHASING AND WITH OWNERS' SCHEDULES, OCCUPANCIES, ETC. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK, PIPING, ETC. AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE.

L. PRIOR TO THE REMOVAL OF ANY MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT, FIXTURES, OR SYSTEMS, THE CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEM AND CONFIRM THAT THE ITEMS BEING REMOVED DO NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE CONTRACT LIMITS). WHEN RENOVATION / REMODEL / DEMOLITION WORK IS PERFORMED, THE CONTRACTOR SHALL EXERCISE CARE IN PROTECTING EXISTING ITEMS TO REMAIN AND EXISTING ITEMS TO BE REMOVED AND RELOCATED. PROTECT ALL EXISTING BUILDING COMPONENTS, WALLS, FLOORS, FINISHES, FURNISHINGS, ADJACENT EQUIPMENT, LIGHTING, ETC. ANY ITEMS DAMAGED OR WHERE FINISHES HAVE BEEN MARRED, SHALL BE REPAIRED AND REFINISHED TO ORIGINAL CONDITION AT NO COST TO THE OWNER. ALL ITEMS SOILED IN THE PROGRESS OF THE WORK SHALL BE CLEANED TO THEIR PRE- EXISTING CONDITIONS.

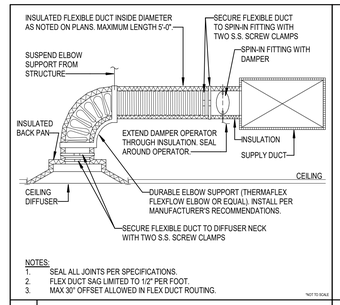
M. ALL EXISTING EQUIPMENT REMOVED SHALL BE PROTECTED FROM DAMAGE IN SO FAR AS PRACTICAL. THESE ITEMS SHALL BE STORED ON SITE FOR A MINIMUM OF TWO (2) WEEKS UNLESS INDICTED OTHERWISE BY THE OWNER'S REPRESENTATIVE TO ALLOW INSPECTION BY THE OWNER. ALL ITEMS RETAINED BY THE OWNER SHALL BE TAGGED AND STORED ON SITE UNTIL DIRECTED OTHERWISE BY OWNER. ALL ITEMS NOT RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND DISPOSED OF PROPERLY.

N. REWORK AND REPAIR ALL DUCTWORK AND PIPING INSULATION DAMAGED OR REMOVED DURING RENOVATION / REMODEL / DEMOLITION AS REQUIRED TO MATCH EXISTING.

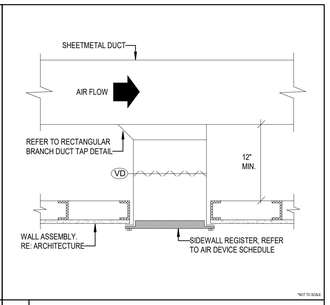
O. EQUIPMENT INGRESS AND EGRESS ROUTES FOR THE RENOVATION WORK SHALL BE COORDINATED WITH THE OWNER. COORDINATE TIMES, DATES, AND DURATIONS WITH OWNER A MINIMUM OF 2 WEEKS IN ADVANCE TO ENSURE THERE ARE NO CONFLICTS IN USAGE OF EQUIPMENT/SPACES.

P. ALL EXISTING EQUIPMENT THAT INCLUDES A REFRIGERATION CIRCUIT THAT IS TO BE DEMOLISHED OR RELOCATED SHALL HAVE THE REFRIGERANT CHARGE RECOVERED PRIOR TO DEMOLITION OR RELOCATION. REFRIGERANT RECOVERY SHALL COMPLY WITH EPA, STATE, AND LOCAL JURISDICTION REQUIREMENTS. RECOVERED REFRIGERANTS SHALL NOT BE USED IN ANY SYSTEM, NEW OR EXISTING, UNLESS THE REFRIGERANT HAS BEEN RECLAIMED AND FOUND TO MEET THE PURITY REQUIREMENTS OF AHRI 700.

Q. EXISTING EQUIPMENT BEING RELOCATED SHALL BE VERIFIED TO BE IN PROPER OPERATING CONDITION PRIOR TO EQUIPMENT RELOCATION. VERIFICATION SHALL BE PERFORMED BY EQUIPMENT MANUFACTURER'S AUTHORIZED SERVICE REPRESENTATIVE. IF EXISTING EQUIPMENT IS FOUND TO BE DEFICIENT, THE SERVICE REPRESENTATIVE SHALL NOTIFY THE ENGINEER AND OWNER AND PROVIDE RECOMMENDATIONS TO RESTORE EQUIPMENT TO PROPER OPERATING CONDITION.



2 CEILING DIFFUSER CONNECTION M0306



1 SIDEWALL SUPPLY REGISTER M0306

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MECHANICAL GENERAL NOTES & DETAILS

M0.11

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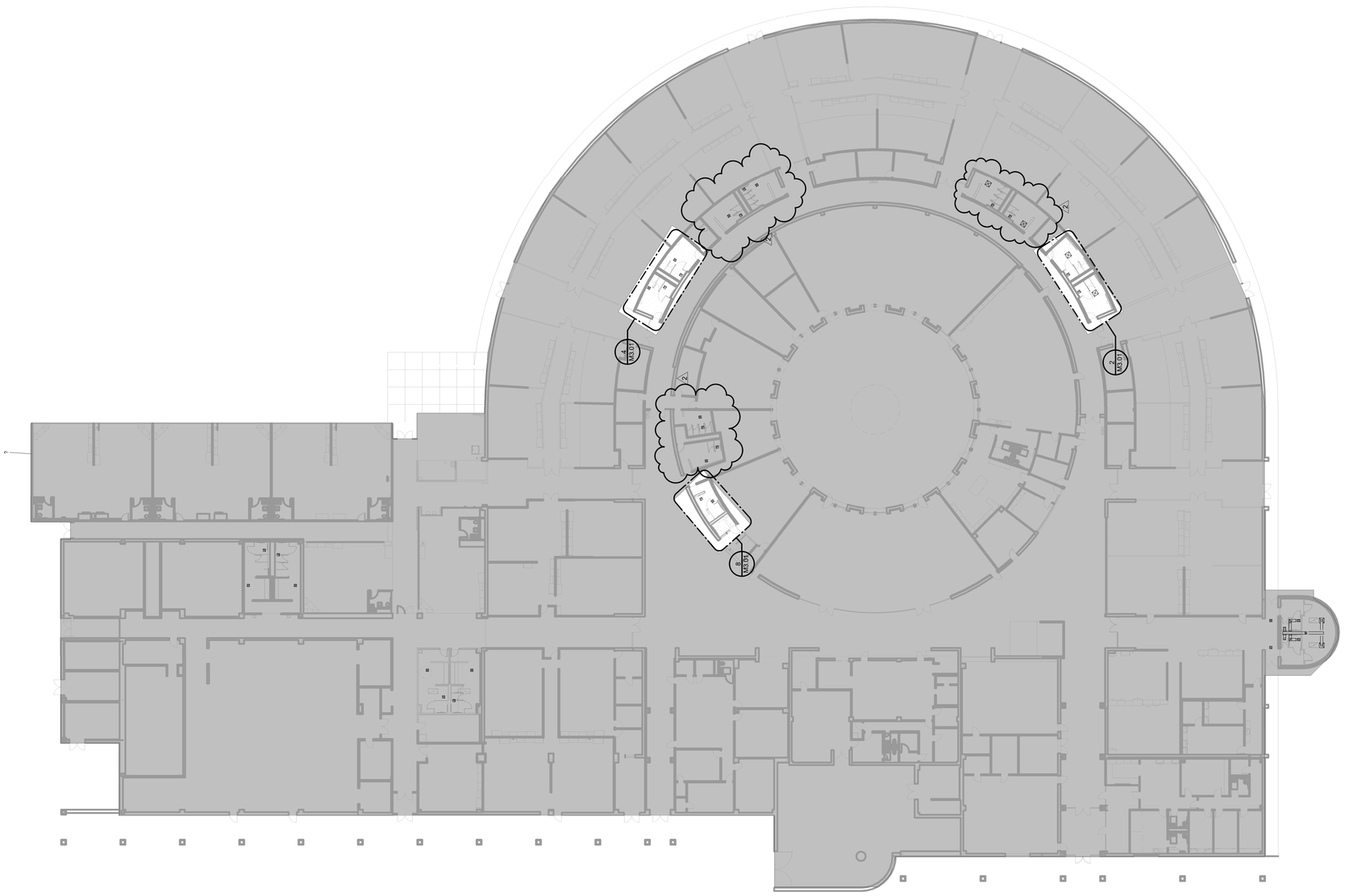
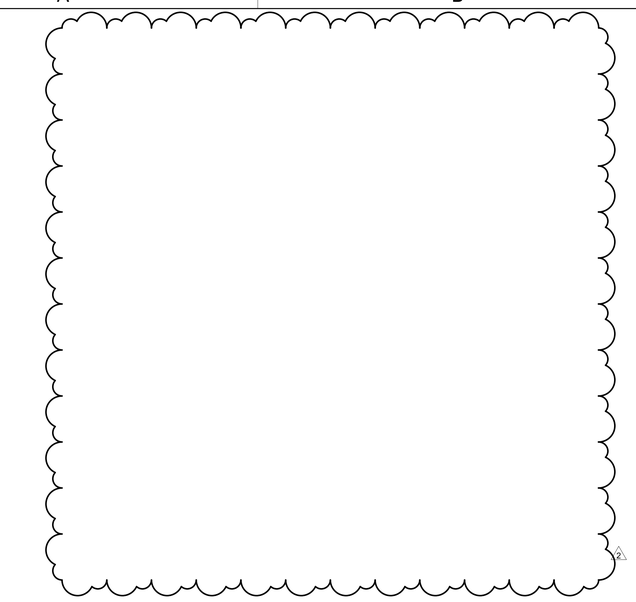
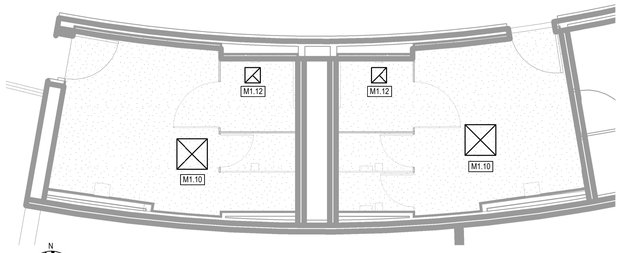
LEVEL 01 - MECHANICAL PLAN

M2.11



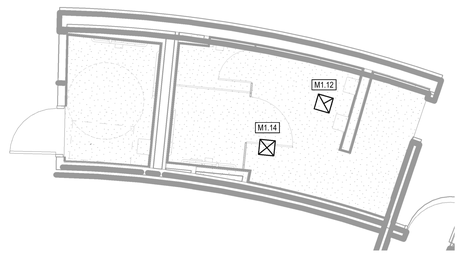
1 LEVEL 01 - MECHANICAL PLAN
1" = 20'-0"





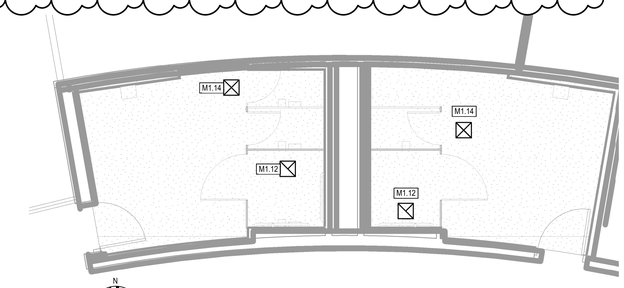
2 LEVEL 01 - MECHANICAL PLAN - BOYS 226 / GIRLS 227

1/4" = 1'-0"



8 LEVEL 01 - MECHANICAL PLAN - MENS 131 / WOMENS 130

1/4" = 1'-0"



4 LEVEL 01 - MECHANICAL PLAN - BOYS 250 / GIRLS 249

1/4" = 1'-0"

MECHANICAL KEYED NOTES

M1.10 MECHANICAL CONTRACTOR SHALL REPLACE EXISTING RETURN AIR GRILLE IN RESTROOM AREA TO NEW LOCATION SHOWN. PROVIDE NECESSARY TRANSITION TO CONNECT NEW 2'X2' GRILLE TO EXISTING DUCTWORK. SEAL AIR TIGHT. COORDINATE GRILLE LOCATION WITH LIGHTING. BASIS OF DESIGN: MODEL TITUS TMS-AA. COORDINATE WITH ARCHITECT FOR FINISH/COLOR.

M1.12 MECHANICAL CONTRACTOR SHALL REPLACE EXISTING EXHAUST AIR GRILLE IN RESTROOM AREA TO NEW LOCATION SHOWN. PROVIDE NECESSARY TRANSITION TO CONNECT NEW 1'X1' GRILLE TO EXISTING DUCTWORK. SEAL AIR TIGHT. COORDINATE GRILLE LOCATION WITH LIGHTING. RE-BALANCE TO CFM INDICATED ON PLANS. BASIS OF DESIGN: MODEL TITUS PAR-AA. COORDINATE WITH ARCHITECT FOR FINISH/COLOR.

M1.14 MECHANICAL CONTRACTOR SHALL REPLACE EXISTING EXHAUST AIR GRILLE IN RESTROOM AREA TO NEW LOCATION SHOWN. PROVIDE NECESSARY TRANSITION TO CONNECT NEW 1'X1' GRILLE TO EXISTING DUCTWORK. SEAL AIR TIGHT. COORDINATE GRILLE LOCATION WITH LIGHTING. BASIS OF DESIGN: MODEL TITUS TDC-AA. COORDINATE WITH ARCHITECT FOR FINISH/COLOR.

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SMITH E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

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HOUSTON, TX 77099

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LEVEL 01 - MECHANICAL PLAN - ENLARGED

M3.01

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ABBREVIATIONS

AC	ALTERNATING CURRENT
AF	AMPERE FUSE; AMPERE FRAME
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPT CAPACITY
AL	ALUMINUM
AM	AMMETER
AMP	AMPLIFIER
ANN	ANNUNCIATOR
ASC	AMPERES SHORT CIRCUIT
AT	AMPERE TRIP RATING
ATS	AUTOMATIC TRANSFER SWITCH
AUX.	AUXILIARY
BKR	BREAKER
BLDG.	BUILDING
C	CONDUIT, CELSIUS
CKT	CIRCUIT
CLG.	CEILING
CONT.	CONTINUOUS,CONTINUATION
CONTR	CONTROLLER, CONTRACTOR
CT	CURRENT TRANSFORMER/COOLING TOWER
CU	COPPER
DAS	DISTRIBUTED ANTENNA SYSTEM
DC	DIRECT CURRENT
DISC	DISCONNECT
DP	DISTRIBUTION PANEL
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DWG	DRAWING
ELEV.	ELEVATOR
EPO	EMERGENCY POWER OFF
ERRC	EMERGENCY RESPONDER RADIO COVERAGE SYSTEM
FA	FIRE ALARM
FF	FURNITURE FIRE FEED
FLA	FULL LOAD AMPS
FTL	FEED-THRU LUGS
GA	GAUGE
GEN	GENERATOR
GND	GROUND
GTD	GENERATOR TRANSFER DEVICE
IG	ISOLATED GROUND
LF	LINEAR FEET
LTG	LIGHTING
LV	LOW VOLTAGE
LVL	LEVEL
MAX.	MAXIMUM
MC	METAL CLAD CABLE
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCCB	MOLDED CASE CIRCUIT BREAKER
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MIC	MICROPHONE
MIN.	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MSB	MAIN SWITCHBOARD
N3R	NEMA 3R
N4X	NEMA 4X
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NFS	NON-FUSED SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE
PH	PHASE
POS	POINT OF SALE
QTY	QUANTITY
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
RE	REFERENCE, REFER
SF	SQUARE FOOT
SIM	SIMILAR
SKVA	STARTING KILOVOLT-AMPS
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE-POLE, DOUBLE-THROW
SPST	SINGLE-POLE, SINGLE-THROW
SPEC	SPECIFICATION
SQFT	SQUARE FOOT
ST	SHUNT TRIP
SWB	SWITCHBOARD
TL	TWIST-LOCK
TOC	TOP OF CURB
TOS	TOP OF STEEL
TR	TAMPER RESISTANT RECEPTACLE
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SYSTEM
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF
WT	WATERTIGHT, WEIGHT
W/SF	WATTS PER SQUARE FOOT
XFMR	TRANSFORMER

MANY ABBREVIATIONS NOT LISTED MAY BE FOUND IN THE NATIONAL ELECTRIC CODE, OR IN THE INTERNATIONAL AND UNIFORM CODES

PHASING

(E)	EXISTING (TO REMAIN)
(D)	SHALL BE DEMOLISHED
(N)	PROVIDE NEW
(R)	RELOCATED ELEMENT

BUILDING CODES & STANDARDS

APPLICABLE CODES:
2021 INTERNATIONAL BUILDING CODE (WITH HOUSTON AMENDMENTS)
2021 INTERNATIONAL FIRE CODE (WITH HOUSTON AMENDMENTS)
2021 UNIFORM MECHANICAL CODE (WITH HOUSTON AMENDMENTS)
2021 UNIFORM PLUMBING CODE (WITH HOUSTON AMENDMENTS)
2021 INTERNATIONAL ENERGY CONSERVATION CODE (WITH HOUSTON AMENDMENTS)
2023 NATIONAL ELECTRICAL CODE (STATE MANDATED)

ELECTRICAL SYMBOLS

MOTORS AND CONTROLS

- MOTOR RATED SWITCH WITH THERMAL OVERLOADS
- (5) SINGLE OR THREE PHASE MOTOR NUMBER INDICATES HORSE POWER
- ELECTRIC DUCT HEATER
- DISCONNECT (SAFETY) SWITCH "200/3/150" DENOTES AMPERES/POLE/FUSE, "NF" DENOTES NON-FUSED "N3R" DENOTES NEMA 3R
- [B] ENCLOSED CIRCUIT BREAKER- "200/3/150" DENOTES AMPERES/POLE/TRIP.
- MOTOR STARTER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER. "30/3/15/80" DENOTES AMPERES/POLES/FUSE/ STARTER SIZE. "NF" DENOTES NON-FUSED. FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- VFD VARIABLE FREQUENCY DRIVE PROVIDED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- EPO EMERGENCY POWER OFF BUTTON.

RECEPTACLES AND OUTLETS

ALL RECEPTACLES SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS.

ABBREVIATIONS APPLICABLE TO RECEPTACLES:
"GFCI" GROUND FAULT INTERRUPTER
"WP" WEATHERPROOF
"IG" ISOLATED GROUND
"TIR" TAMPER RESISTANT
"USB" RECEPTACLE WITH USB CHARGING PORTS
"AC" ABOVE COUNTER MOUNTING
"UC" UNDER COUNTER MOUNTING
"H" HORIZONTALLY ORIENTED RECEPTACLE

- SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.
- DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V. SHADED INDICATES SPLIT-WIRED
- FOURPLEX (QUADRUPLEX) RECEPTACLE
- DUPLEX RECEPTACLE (PEDESTAL MOUNTED)
- CONTROLLED WALL RECEPTACLE. DUPLEX: SPLIT-WIRED QUAD: SEPARATELY WIRED UNDER A COMMON COVERPLATE.
- POWER DEVICE RED IN COLOR, ON EMERGENCY POWER CIRCUIT
- CEILING RECEPTACLE/QUAD, EMERGENCY POWER SYMBOL MAY APPLY
- SPECIAL RECEPTACLE, NEMA CONFIGURATION PER PLAN OR EQUIPMENT
- TV TV ROUGH-IN: 3-GANG RECESSED TV BOX, CONTAINING 1 DUPLEX RECEPTACLE, 1 GANG FOR A/V, 1 GANG FOR DATA
- FLOOR BOX OR POKE THRU. POKE-THRU'S WHERE IN SUSPENDED SLABS, RECESSED IN FOUNDATION WHERE SLAB ON GRADE
- FLUSH ELECTRICAL FLOOR OUTLET. REFER TO FLOOR BOX SCHEDULE, FIRE RATED POKE-THROUGH SCHEDULE AND KEYED NOTES.
- DC DROP CORD WITH SIMPLEX RECEPTACLE UNLESS OTHERWISE NOTED
- CR CORD REEL WITH DUPLEX RECEPTACLE UNLESS OTHERWISE NOTED
- J J JUNCTION BOX
  "MD" INDICATES POWER CONNECTION TO SERVE MOTOR DAMPER
  "HD" INDICATES POWER CONNECTION TO SERVE HAND DRYER
  "FV" INDICATES POWER CONNECTION TO SERVE FLUSH VALVES
- P PULL BOX (OVER 4" SQUARE)
- BELL/BUZZER/CHIME
- PUSH BUTTON/DOOR BELL/START-STOP
- PP POWER POLE
- POINT OF DIRECT CONNECTION TO EQUIPMENT
- C (2) CLOCK RECEPTACLE SHALL BE MOUNTED 12" BELOW FINISHED CEILING. (2) DENOTES DOUBLE SIDED CLOCK.

LIGHTING

LETTER(S) DENOTE TYPE- SEE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

2' X 4' 2' X 2' 1' X 4' 1' X 2' 1' X 1'

- STRIP LIGHTING FIXTURES.
- ROUND DOWNLIGHT FIXTURE.
- SQUARE DOWNLIGHT FIXTURE.
- WALL MOUNTED LIGHTING FIXTURE.
- TRACK LIGHTING FIXTURE. MOUNTED AS SHOWN ON LIGHTING FIXTURE SCHEDULE.
- CEILING MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- WALL MOUNTED EXIT SIGN; ARROWS AS INDICATED. SHADED AREA DENOTES FACE.
- EMERGENCY WALL MOUNTED LIGHTING FIXTURE. BATTERY OPERATED UNLESS NOTED OTHERWISE.
- SITE LIGHTING FIXTURE.

HATCHING PATTERNS BELOW SHALL APPLY TO ALL LIGHTING FIXTURE SYMBOLS.

- NL EMERGENCY LIGHT FIXTURE WITH BATTERY PACK, PROVIDE WITH UNSWITCHED HOT FOR LOSS OF VOLTAGE AND CHARGING (SAME CIRCUIT AS NORMAL POWER LIGHTING). FIXTURES SHALL BE WIRED IN A MANNER AS TO ALLOW SWITCHING OF FIXTURES WITHOUT DISCHARGING THE EMERGENCY BATTERY. BATTERY PACK IS TO ONLY OPERATE IN THE EVENT OF A POWER OUTAGE.
  "NL" NIGHT LIGHT ON UNSWITCHED 24HR OPERATION
- EM CIRCUIT LIGHT FIXTURE ON LIFE SAFETY BRANCH CIRCUIT, GENERATOR TRANSFER DEVICES REQUIRED (UL1008 OR UL924) PROVIDE UNSWITCHED HOT, NEUTRAL AND GROUND FOR ALL LIFE SAFETY LIGHTING ORIGINATING FROM THE LIFE SAFETY CIRCUIT SHOWN.
- CRITICAL OPERATIONS LIGHTING ORIGINATING FROM THE CRITICAL CIRCUIT INDICATED. HATCHED AS INDICATED. HATCHING TYPICAL FOR ALL CRITICAL BRANCH LIGHT FIXTURES

RACEWAYS AND WIRING

- CAP AND STAKE
- CONDUIT CONCEALED IN WALL OR CEILING
- UNDERGROUND, UNDERSLAB, CONCEALED ROUTING
- OHE OVERHEAD ELECTRIC PRIMARY UTILITY POWER LINE
- CONDUIT UP/DOWN
- HASH MARKS INDICATE NUMBER OF CONDUCTORS. LEFT TO RIGHT: PHASE/NEUTRAL/GROUND/ISOLATED GROUND. NO HASH MARKS INDICATES EMPTY CONDUIT, 1" MINIMUM, UNLESS NOTED OTHERWISE.
- 1LA-2,4,6 HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED.
- (ON)1LA-6 PARTIAL/SHARED CIRCUIT HOMERUN TO PANEL.
- TELECOMMUNICATIONS CABLE TRAY SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.

ELECTRICAL EQUIPMENT

- DISTRIBUTION PANEL
- MSB SWITCHBOARD, MAIN DISTRIBUTION PANEL OR MOTOR CONTROL CENTER
- PANELBOARD (FLUSH/SURFACE MOUNT)
- FLOOR MOUNTED DRY-TYPE TRANSFORMER
- SUSPENDED OR WALL MOUNTED TRANSFORMER
- ATS AUTOMATIC TRANSFER SWITCH
- FIRE RATED PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4' X 8' X 3/4" UNLESS NOTED OTHERWISE

COMMUNICATIONS

DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 18" ABOVE FINISHED FLOOR (AFF)

- DATA/COMM/AV ROUGH-IN. CONDUIT TO PLENUM AND BOX ONLY
- HS DS SCHOOL INTERCOMMUNICATION SYSTEM HANDSET.

DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 42" AFF

- VC VOLUME CONTROL - WALL MOUNTED
- CB INTERCOM/PA SYSTEM CALL-IN OR CALL-BACK DEVICE

DEFAULT ELEVATION (UNLESS INDICATED OTHERWISE) TO CENTER OF ROUGH-IN: 120" AFF OR 12" BELOW CEILING, WHICHEVER IS LOWER

- S L INTERCOM/PA SPEAKER "L" LOCAL SOUND REINFORCEMENT

CEILING MOUNTED DEVICES:

- S VC INTERCOM/PA SPEAKER "VC" INDICATES VOLUME CONTROL ON SPEAKER.

REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

ONE-LINE DIAGRAM

- 800A/3P TRANSFORMER, TYPE AND RATINGS AS NOTED
- SWITCH, RATING AS SHOWN
- 400A FUSE, RATING AS SHOWN
- ST SHUNT TRIP
- GFP GROUND FAULT PROTECTION
- K KIRK-KEY INTERLOCK
- M DIGITAL METER OR SUB-METER INTEGRATED INTO EQUIPMENT
- 1200/5 CURRENT TRANSFORMER, RATED AS SHOWN
- GROUND CONNECTION
- AUTOMATIC TRANSFER SWITCH
- BUS DUCT PLUG
- M ELECTRICAL UTILITY REVENUE METER
- SPD SURGE PROTECTION DEVICE
- GANN GENERATOR ANNUNCIATOR PANEL
- CIRCUIT BREAKER
- DRAW-OUT CIRCUIT BREAKER
- NEW EQUIPMENT/WIRING
- DEMOLITION EQUIPMENT/WIRING
- EXISTING EQUIPMENT/WIRING
- UNDERGROUND WIRING

DAYLIGHT ZONES

DAYLIGHT ZONE/PRIMARY SECONDARY DAYLIGHT ZONE

DAYLIGHT ZONES SHALL BE INCLUSIVE OF THE FIXTURES WITHIN THE SHADED REGION, AND SHALL BE DIMMED USING ON-BOARD OR EXTERNAL CONTROL IN ACCORDANCE WITH IECC 2021. IECC 2018 OR 2015 MAY BE REFERENCED ONLY WHERE ADOPTED BY LOCAL AHJ.

GENERAL NOTES:

A. NOT ALL SYMBOLS SHOWN ON THIS SYMBOL LIST ARE USED IN THE CONTRACT DOCUMENTS.

MISCELLANEOUS

- F SHADED SYMBOLS INDICATE EXISTING DEVICES TO REMAIN, UNLESS OTHERWISE NOTED.
- INDICATES WALL-MOUNTED WHEN ATTACHED TO ANY SYMBOL
- 1 DRAWING NOTE REFERENCE
- SOS AREA OF RESCUE ASSISTANCE

FIRE ALARM

- W WATER FLOW SWITCH
- SP SUPERVISORY SWITCH
- S SMOKE DETECTOR - MULTI CRITERIA DETECTOR
- S # SMOKE DETECTOR - "SB" INDICATES IN INTEGRAL SOUNDER BASE "D" INDICATES DUCT TYPE "R" INDICATES 120 VOLT RESIDENTIAL TYPE
- H HEAT DETECTOR
- S BT BEAM DETECTOR TRANSMITTER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
- S BR BEAM DETECTOR RECEIVER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
- S FIRE ALARM SPEAKER STROBE / CEILING MOUNTED
- S FIRE ALARM SPEAKER / CEILING MOUNT.
- DH MAGNETIC DOOR HOLDER
- R AUXILIARY CONTROL RELAY
- FH FIRE FIGHTER HANDSET
- F FIRE ALARM PULL STATION +42" AFF
- F FIREMAN'S TELEPHONE JACK +42" AFF
- AUDIO VISUAL FIRE ALARM HORN STROBE +80" AFF- 15/75cd U.N.O.
- VISUAL FIRE ALARM (STROBE) CEILING MOUNT - 15/75cd U.N.O.
- AUDIO FIRE ALARM HORN +80" AFF
- FACP FIRE ALARM CONTROL PANEL
- ANN REMOTE FIRE ALARM ANNUNCIATOR PANEL
- RPS REMOTE POWER SUPPLY FOR AUDIO/VISUAL FIRE ALARM DEVICES.
- FSD FIRE SMOKE DAMPER
- REMOTE LED INDICATOR LIGHT

SECURITY

- PB ADA AUTO DOOR OPEN BUTTON
- DR DOOR RELEASE BUTTON
- CR WALL MOUNTED CARD READER

REFERENCE TECHNOLOGY/SECURITY SHEET FOR ADDITIONAL INFORMATION.

SWITCHES AND LIGHTING CONTROL DEVICES

ALL SWITCH TYPES AND SENSORS TYPES FOUND ON 'LIGHTING CONTROL DEVICE SCHEDULE'. LOCATED ON ELECTRICAL SCHEDULE SHEETS

SWITCH ANNOTATION AS FOLLOWS:
- X TYPE, PER SCHEDULE (NO TYPE INDICATES SINGLE POLE TOGGLE SWITCH)
- $a,b,c SWITCH LEGS, PER PLAN, SHOWN HERE AS 3 (a,b,c)

OCCUPANCY SENSOR ANNOTATION, AS FOLLOWS:
- OCx OCCUPANCY / VACANCE SENSOR 'x' INDICATES TYPE, PER SCHEDULE
- CEILING SENSOR
- WITH BRACKET INDICATES WALL / CORNER MOUNT

LIGHT SENSOR ANNOTATION, AS FOLLOWS:
- PC DIGITAL PHOTOCELL
- DS DAYLIGHT HARVESTING SENSOR

RELAY PANELS, CONTACTORS, TIME SWITCHES:
- XX RELAYS/CONTACTORS/TIMERS/DEVICES WHERE "XX" INDICATES:
  "LC" LIGHTING CONTRACTOR
  "LCP" LIGHTING CONTROL PANEL
  "TS" TIME SWITCH
  "TC" TIME CLOCK

DRAWING/DETAIL REFERENCE KEY

RE: 1 /E3-2 — REFER TO DRAWING/DETAIL NUMBER 1, SHEET NUMBER E3-2

PANELBOARD NOMENCLATURE

5 DP C H A 1
- SUB PANEL
- AREA
- VOLTAGE H: 480Y/277V L: 208Y/120V
- BRANCH NONE: NORMAL E: LIFE SAFETY Q: EQUIPMENT C: CRITICAL R: LEGALLY REQUIRED X: OPTIONAL STAND-BY
- DISTRIBUTION PANEL (IF APPLICABLE)
- LEVEL

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ELECTRICAL SYMBOL LEGEND

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GENERAL LIGHTING DEMOLITION NOTES:

A. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRESENT ON SITE PRIOR TO BIDDING, AND SHALL BE EXPECTED TO PERFORM DEMOLITION AND INSTALL NEW AS SHOWN ON THE DOCUMENTS, INCLUDING SCOPE THAT MAY NOT FEASIBLY BE INDICATED ON PLAN.

B. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING ELECTRICAL DEVICES ON EXISTING CEILING. ALL ABANDONED DEVICES IN CEILING WITHIN SCOPE OF WORK SHALL BE REMOVED.

C. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL TO ALL REMOVED MATERIALS. CONTRACTOR SHALL COORDINATE WITH OWNER FOR LOCATION TO RETURN ANY AND ALL MATERIAL FOR OWNER STORAGE. FAILURE TO TURN OVER REMOVED MATERIAL TO OWNER MAY REQUIRE CONTRACTOR TO REPLACE EQUIPMENT REMOVED WITH NEW.

D. REMOVE ALL ELECTRICAL DEVICES WITHIN DEMOLISHED WALLS INCLUDING SWITCHES AND FIRE ALARM DEVICES. REFER TO ARCHITECTURAL DEMO PLAN. THIS SCOPE MAY NOT BE DIRECTLY IMPLIED BY NOTES ON DEMO PLANS AS IT IS ASSUMED THIS SCOPE EXISTS BASED ON ARCHITECTURAL DEMOLITION PLANS.

E. CONTRACTOR SHALL REVIEW DEMO AND NEW WORK PLANS SIMULTANEOUSLY TO IDENTIFY SCOPE THAT IS TO BE MODIFIED FOR REUSE WITH NEW SCOPE.

F. ALL FIXTURES REMOVED AND REINSTALLED SHALL BE CLEANED, RELAMPED AS REQUIRED AND TOUCHED UP WITH PAINT. ALL DAMAGED PARTS MUST BE REPLACED. THE FIXTURES SHALL THEN BE REINSTALLED AS REQUIRED. PROVIDE NEW DRIVERS AS REQUIRED.ALL EXISTING SWITCHING ZONES SHALL REMAIN UNCHANGED UNLESS DIRECTED OTHER ON PLANS.

G. ALL LIGHTING CIRCUITS SHALL BE DEMOLISHED AS REQUIRED BY THE DEMOLITION SCOPE ON THE DOCUMENTS. REPAIR ANY CIRCUITS THAT ARE PARTIALLY DEMOLISHED AND CONTAIN OUTLETS THAT ARE 'NOT IN SCOPE' OR OUTSIDE OF THE LIMITS OF CONSTRUCTION TO WORKING CONDITION. PROVIDE ADDITIONAL CONDUIT, WIRE AND BOXES AS NEEDED.

H. MODIFIED LIGHTING CIRCUITS SHALL NOT EXCEED 50% CIRCUIT LOAD BASED ON CIRCUIT AMPACITY.

I. ALL EXISTING INTERCOM/SPEAKERS SHALL BE REMOVED AND REINSTALLED AS REQUIRED TO FACILITATE RENOVATION. SUBJECT TO EXISTING EQUIPMENT OPERATION CONDITION VERIFICATION.

J. WHERE CEILING REPLACEMENTE IS REQUIRED, ALL EXISTING CEILING DEVICES SHALL BE UNINSTALLED AND REINSTALLED AS REQUIRED, INCLUDING PUBLIC ADDRESS DEVICES, FIRE ALARM DEVICES, LIGHTING CONTROL DEVICES, ETC. REFER TO ARCHITECTURAL PLANS FOR CEILING REPLACEMENT LOCATIONS.

GENERAL ELECTRICAL NOTES:

A. ELECTRICAL DEVICE LOCATIONS SHOWN ARE NOT EXACT. ALL DEVICE LOCATIONS SHALL BE VERIFIED WITH ARCHITECTURAL MILLWORK, CASEWORK, AND GENERAL ELEVATION VIEWS.

B. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, OUTLET BOXES, JUNCTION BOXES FOR ALL TECHNOLOGY, LOW VOLTAGE, ACCESS CONTROL SECURITY, SURVEILLANCE, AND OTHER DIVISION 27/28 SCOPE. REFER TO DIVISION 27/28 DRAWINGS AND SPECIFICATIONS FOR ALL WORK REQUIRED. OMISSION OF THIS SCOPE FROM DIV 26 SCOPE OF WORK IS PROHIBITED.

C. HVAC AND PLUMBING EQUIPMENT LOCATIONS ARE NOT EXACT, AND THE EXACT POINT OF CONNECTION TO EQUIPMENT MAY VARY. COORDINATE EXACT ROUGH-IN REQUIREMENTS IN FIELD AND WITH FINAL SUBMITTALS.

D. PROVIDE LABELING OF ALL DEVICES, CONDUIT, PANELS, AND JUNCTION BOXES WITH TYPE-WRITTEN LABEL IDENTIFYING CIRCUIT ON THE BACK OF DEVICE COVER PLATES AND ON COVER OF JUNCTION BOXES IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

E. ROOF PENETRATIONS SHALL BE MINIMIZED. WHERE ABLE, ROUTE ALL CONDUIT FOR ROOF MOUNTED EQUIPMENT THROUGH ROOF CURB. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING NECESSARY WATER PROOFING AROUND ROOF PENETRATIONS WITH ROOFING INSTALLER.

F. ALL RECEPTACLES LOCATED IN RESTROOMS, JANITOR CLOSETS, MECHANICAL ROOMS, ELEVATOR PITS OR SHAFTS, ELEVATOR EQUIPMENT ROOMS, SERVING ELECTRIC DRINKING FOUNTAINS OR VENDING MACHINES, LOCATED WITHIN 6' OF A SINK, LOCATED ABOVE A WET COUNTERTOP OR IN A KITCHEN OR COFFEE BAR SHALL BE GFCI. FEED-THRU GFCI/GFI IS PROHIBITED. ALL GFCI/GFI DEVICES SHALL BE PROVIDED WITH INDIVIDUAL TEST/RESET FEATURES. ALL GFCI RECEPTACLES SHALL BE ACCESSIBLE. PROVIDE SEPARATE RECEPTACLE PROTECTED BY "FACELESS GFCI." REQUIRED TO COMPLY WITH CURRENTLY ADOPTED NEC.

G. MULTI-WIRE HOME RUNS SHALL NOT BE ALLOWED. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS. SHARING CONDUIT IS PERMISSIBLE WHERE TOTAL CONDUCTOR AMPACITY DERATING HAS BEEN PERFORMED BY ELECTRICAL CONTRACTOR. THE NEUTRAL IS CONSIDERED CURRENT-CARRYING. ROUTE A MAXIMUM OF THE 3 BRANCH CIRCUITS IN A SINGLE 3/4" RACEWAY. EACH NEUTRAL SHALL BE LABELED TO INDICATE THE CIRCUIT NUMBER CORRESPONDING TO THE HOT CONDUCTOR. THIS LABEL SHALL INCLUDE THE PANELBOARD, JUNCTION BOXES AND OUTLET BOXES.

H. ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE EXCEPT IN MDF/IDF CLOSETS.

I. CONTRACTOR SHALL PROVIDE PLENUM RATED MATERIAL FOR ALL INFRASTRUCTURE LOCATED IN PLENUMS NOT PROTECTED BY CONDUIT OR ANOTHER APPROVED/LISTED FIRE ENCLOSURE.

J. NEW ELECTRICAL EQUIPMENT LOCATED IN ELECTRICAL ROOMS SHALL BE ARRANGED TO COMPLY WITH LATEST NEC ARTICLE 110.

K. ELECTRICAL AND TECHNOLOGY OUTLETS SHOWN IN SOUND RATED PARTITIONS SHALL NOT BE PLACED BACK-TO-BACK. OFFSET AT LEAST ONE STUD AND SEAL FOR SOUND AS REQUIRED.

L. ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. CONTRACTOR PAY PROVIDE NON-TAMPER RESISTANT RECEPTACLES WHERE NOT REQUIRED PER CURRENT NEC ARTICLE 406.

M. ALL VFDS, MOTOR STARTERS, OR DISCONNECT SWITCHES SHALL BE SUPPLIED BY DIVISION 23 AND INSTALLED BY DIVISION 26 UNLESS NOTED OTHERWISE. ELECTRICAL CONNECTIONS SHALL BE PROVIDED BY DIVISION 26. DIVISION 26 SHALL COORDINATE WITH DIVISION 23 PRIOR TO ROUGH-IN.

N. PROVIDE LABELING OF ALL DEVICES, CONDUIT, PANELS, AND JUNCTION BOXES IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.

O. PROVIDE TIME DELAY RELAY FOR EACH FAN COIL UNIT (FCU) AND AIR COOLED CONDENSING UNIT (ACCU) TO ALLOW THEM TO START UP IN 30 SECOND INTERVALS IN THE EVENT OF A POWER LOSS.

P. FEED-THRU GFCI/GFI IS PROHIBITED, ALL GFCI/GFI DEVICES SHALL BE PROVIDED WITH INDIVIDUAL TEST/RESET FEATURES.

Q. LABEL ALL CIRCUITS AT ALL JUNCTION BOXES AND OUTLETS (AS DEFINED BY NEC) WITH TYPE-WRITTEN LABEL IDENTIFYING CIRCUIT ON THE BACK OF DEVICE COVER PLATES OR ON COVER OF JUNCTION BOX. IF A BOX HAS MULTIPLE CIRCUITS WITHIN, LABEL ALL CIRCUITS.

R. DRAWINGS ARE DIAGRAMMATIC AND NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL OR THEIR EXACT LOCATION. THE CONTRACTOR SHALL COORDINATE WITH THE VARIOUS TRADES TO AVOID INTERFERENCE BETWEEN DEVICES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE A COMPLETE WORKING SYSTEM WHICH WILL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, AND AHJ.

S. BRANCH CIRCUITS SHALL NOT BE ROUTED UNDER SLAB EXCEPT AS SHOWN. FEEDERS SERVING SWITCHGEAR, DISTRIBUTION PANELS, LIGHTING CLASS PANELBOARDS AND MECHANICAL EQUIPMENT MAY BE INSTALLED UNDER SLAB. FEEDER TO BE ROUTED UNDER SLAB ARE SHOWN AS DASHED LINES, AND OVERHEAD FEEDERS ARE SHOWN AS SOLID, CONTINUOUS LINES. REFER TO FLOOR PLANS AND ELECTRICAL SYMBOLS LEGEND.

T. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL EXHAUST FAN CONTROLS. PROVIDE A FAN SWITCH IF INDICATED BY MECHANICAL.

U. ALL ELECTRICAL CONDUITS SHALL RUN PERPENDICULAR OR PARALLEL TOTHE WALLS, BEAMS, ETC. AND SHALL BE COORDINATED WITH ARHITECT PRIOR TO ROUTING. ALL CONDUITS SHALL BE PAINTED AS DIRECTED BY ARCHITECT.

V. ALL RECEPTACLES DENOTED AS WEATHERPROOF RECEPTACLES SHALL BE WEATHERPROOF WHILE IN USE RECEPTACLES WITH AN OUTLET BOX HOOD LISTED AS "EXTRA DUTY" PER NEC 2023 406.9(B)(1).

W. CONTRACTOR SHALL INSTALL EQUIPMENT GROUNDING CONDUCTOR IN ALL RACEWAYS. INSTALL GROUNDING BUSHINGS WHERE CONCENTRIC OR ECCENTRIC KNOCKOUTS OR REDUCING BUSHINGS ARE USED. BOND ALL BOXES TO EQUIPMENT GROUNDING CONDUCTOR.

X. NO MORE THAN SIX PHASE CONDUCTORS SHALL BE INSTALLED IN A SINGLERACEWAY. ANY COMBINATION OF PHASE CONDUCTORS AND GROUNDED (NEUTRAL)CONDUCTORS AND EQUIPMENT GROUND CONDUCTORS IN ANY RACEWAY SHALL NOT EXCEED SEVEN.

Y. ALL CONDUCTORS SHALL BE COPPER; ALUMINUM IS NOT ACCEPTABLE.

Z. PROVIDE CONCRETE HOUSEKEEPING PAD FOR ALL PAD-MOUNTED TRANSFORMERS AND PAD-MOUNTED SWITCHGEAR.

AA. ELECTRICAL DEVICES SHOWN ARE NOT EXACT. ALL DEVICE LOCATIONS AND MOUNTING HEIGHTS SHALL BE VERIFIED WITH ARCHITECT AND ARCHITECTURAL MILLWORK, CASEWORK, AND GENERAL ELEVATION VIEWS.

BB. PROVIDE POWER FOR ALL FIRE AND SMOKE DAMPERS, BLAST DAMPERS, AND MOTORIZED DAMPERS IN BUILDING. REFER TO MECHANICAL DRAWINGS FOR PROPOSED LOCATIONS. COORDINATE EXACT LOCATIONS AND QUANTITIES WITH DIVISION 23.

GENERAL POWER DEMOLITION NOTES:

A. EXISTING CIRCUIT BREAKERS VACATED DUE TO REMODELING WORK SHALL REMAIN AS SPARE BREAKERS AND LEFT IN THE 'OFF' POSITION.

B. WHERE INDICATED OR REQUIRED BY OTHER TRADES, CONTRACTOR SHALL REMOVE ALL ELECTRICAL CONNECTIONS TO EXISTING PREWIRED FURNITURE. REMOVE CONDUIT AND WIRING BACK TO LAST ACTIVE JUNCTION. ALL DATA CABLING SHALL BE REMOVED.

C. CONTRACTOR SHALL REPORT ANY DAMAGED DEVICES THAT ARE SHOWN AS EXISTING TO REMAIN. ALL DEVICES FOUND TO BE DAMAGED AT THE TIME OF SUBSTANTIAL COMPLETION THAT NOT REPORTED PRIOR TO STARTING WORK SHALL BE REPLACED AT THE CONTRACTOR'S COST.

D. DEMOLISHED POKE-THRUS SHALL BE DISCONNECTED FROM EXISTING BRANCH CIRCUIT, DATA AND/OR AV CONDUCTORS. CAP WITH A UL LISTED FIRE RATED POKE-THRU COVER.

E. EXISTING RECEPTACLE OR MECHANICAL CIRCUITS MODIFIED IN FIELD SHALL NOT EXCEED 80% CAPACITY BASED ON AMP-RATING OF CIRCUIT.

LIGHTING GENERAL NOTES:

A. ALL LIGHTING CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH PERFORMANCE DESCRIPTION INDICATED IN THE LIGHTING CONTROL DEVICE SCHEDULE FOUND ON SCHEDULE SHEETS.

B. MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED UNDER A COMMON COVER PLATE.

C. PROVIDE LABELING OF ALL CONTROL DEVICES, SWITCH PACKS, LIGHT FIXTURES, JUNCTION BOXES, ETC IN ACCORDANCE WITH SPECIFICATIONS.

D. LIGHTING FIXTURE LOCATIONS SHOWN TAKE PRECEDENCE IN CEILING LOCATION TO ALL OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING OTHER TRADES DO NOT IMPACT SPACING AND/OR OVERLAYMENT OF OTHER DEVICES WHERE LIGHT FIXTURES ARE INSTALLED.

E. REFERENCE SYMBOLS LEGEND FOR LIGHT SWITCH AND LIGHTING CONTROL DEVICE NOMENCLATURE AND SWITCH-LEG ANNOTATION OR LABELING.

F. ALL 2X2, 2X4 FIXTURES INSTALLED IN SUSPENDED GRID CEILING SHALL BE PROVIDED WITH (4) SECONDARY SUPPORT WIRES ANCHORED DIRECTLY TO STRUCTURE.

G. ALL ELECTRICAL CONDUITS SHALL RUN PERPENDICULAR OR PARALLEL TO THE WALLS, BEAMS, ETC. AND SHALL BE COORDINATED WITH ARHITECT PRIOR TO ROUTING. ALL CONDUITS SHALL BE PAINTED AS DIRECTED BY ARCHITECT.

H. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES.

I. ALL LIGHT FIXTURES/LENS SHALL BE CLEAN OF DUST/DIRT/DEBRIS AT THE TIME OF SUBSTANTIAL COMPLETION.

J. ROUTE A HOT LEG, SWITCHED LEG, AND A GROUND FOR ALL LINE VOLTAGE SWITCHES.

K. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATIONS WITH DUCTWORK AND PIPING IN MECHANICAL ROOMS.

L. ALL 2X2, 2X4 FIXTURES INSTALLED IN SUSPENDED GRID CEILING SHALL BE PROVIDED WITH (2) SECONDARY SUPPORT WIRES ANCHORED DIRECTLY TO STRUCTURE.

M. ALL NEW DEVICES LOCATED ON EXISTING CONCRETE OR BLOCK WALLS/CEILINGS SHALL HAVE SURFACE MOUNTED CONDUIT. PAINT CONDUIT TO MATCH COLOR OF WALL, COORDINATE WITH ARCHITECT. WHERE DEVICES ARE LOCATED IN SAME LOCATION AS EXISTING DEVICES, REUSE BACK BOXES AND EXISTING CONCEALED CONDUIT WHERE ABLE.

N. WHERE CEILING REPLACEMENTE IS REQUIRED, ALL EXISTING CEILING DEVICES SHALL BE UNINSTALLED AND REINSTALLED AS REQUIRED, INCLUDING PUBLIC ADDRESS DEVICES, FIRE ALARM DEVICES, LIGHTING CONTROL DEVICES, ETC. REFER TO ARCHITECTURAL PLANS FOR CEILING REPLACEMENT LOCATIONS.

EMER. LIGHTING GENERAL NOTES:

A. PROVIDE ALL EMERGENCY LIGHT FIXTURES WITH UNSWITCHED HOT LEG AS INDICATED IN NEC 700.12 AND PROVIDE LOCK-ON DEVICE AS REQUIRED BY NEC 700.

B. ROUTE AN UNSWITCHED HOT LEG TO ALL LIGHT FIXTURES DESIGNATED AS EMERGENCY FIXTURES. HOT LEG SHALL ORIGINATE FROM CIRCUIT SERVING NORMAL LIGHTING FIXTURES IN THAT SPACE. UNSWITCHED HOT LEG SHALL CONNECT TO THE NORMAL POWER SENSING LUG ON THE EMERGENCY BATTERY PACK.

C. PROVIDE UN-SWITCHED CIRCUIT TO ALL EXIT SIGNS. CONNECT TO DEDICATED CIRCUIT INDICATED AND PROVIDE LOCK-ON DEVICE AS REQUIRED BY NEC 700.

FIRE ALARM REMODELING NOTES:

A. CONTRACTORS ARE RESPONSIBLE FOR VISITING THE SITE AND VERIFYING THE EXISTING FIRE ALARM SYSTEM AND SCOPE OF WORKED REQUIRED PER PLANS AND SPECIFICATIONS, PRIOR TO BIDDING. VERIFY EXISTING SITE CONDITIONS, MAKE AND MODEL OF CURRENT FIRE ALARM SYSTEM, NECESSITY OF ANY FRONT-END UPGRADES, CODE COMPLIANCE OF EXISTING DEVICES LOCATED WITHIN THE SCOPE OF WORK AREA, TO BE KNOWN BY FIRE ALARM CONTRACTOR UPON DESIGN OF FIRE ALARM SHOP DRAWINGS.

B. THE INTENT OF THIS PLAN IS TO INCORPORATE NEW AND RELOCATED DEVICES WITH THE EXISTING BUILDING FIRE ALARM SYSTEM.

C. ALL NOTIFICATION DEVICES SHALL BE ACTIVATED AS REQUIRED BY APPLICABLE CODE WHEN FIRE ALARM SYSTEM IS INITIATED.

D. IT IS ASSUMED WITH THIS REMODEL THAT THE EXISTING SYSTEM MEETS REQUIRED CODES FOR THE ORIGINAL DATE OF INSTALLATION, AND BUILDING MANAGEMENT HAS MAINTAINED SYSTEM IN COMPLIANCE WITH LIFE SAFETY 101. FOR SEQUENCE OF OPERATIONS AND SPECIFICATIONS, REFER TO ORIGINAL SYSTEM DOCUMENT. COORDINATE WITH BUILDING MANAGEMENT.

E. THE EQUIPMENT SUPPLIER AND INSTALLING CONTRACTOR SHALL BE LICENSED BY THE STATE FIRE MARSHALL TO SELL, INSTALL, AND SERVICE FIRE ALARM SYSTEMS AS REQUIRED BY LOCAL CODES AND INSURANCE CODE.

F. ALL NEW EQUIPMENT REQUIRED FOR THIS REMODEL SHALL BE COMPATIBLE WITH THE EXISTING BUILDING SYSTEM AND IS TO BE A PART OF THE SUBMITTAL PROCESS AS NOTED IN THE ELECTRICAL SPECIFICATIONS FOR THIS PROJECT. PROVIDE ADDITION SYSTEM POWER BOOSTER WHERE REQUIRED.

G. VERIFY QUANTITIES OF NEW DEVICES TO INTERFACE WITH THE EXISTING BUILDING SYSTEM. THE CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGEMENT AND SHALL NOTIFY THE ENGINEER IF ANY CONFLICT EXISTS PREVENTING MODIFICATIONS REQUIRED IN THESE PLANS.

H. THE SYSTEM WHEN MODIFIED, SHALL BE A COMPLETE AND WORKING SYSTEM, AND COMPLY WITH THE MOST RECENT RULES, REGULATIONS, AND ORDINANCES THAT PRESENTLY APPLY TO THIS REMODEL.

I. ANY DEVICE THAT SUFFERS MALFUNCTION DURING RENOVATION SHALL BE REPLACED AT NO COST TO OWNER. CONTRACTOR SHALL TAKE PROPER STEPS TO ENSURE DUST AND DEBRIS DOES NOT NEGATIVELY INTERFERE WITH OPERATION OF ANY EXISTING EQUIPMENT LEFT OPERATIONAL DURING RENOVATION.

GENERAL SITE PLAN NOTES:

A. CONTRACTOR SHALL INSTALL ALL RACEWAYS, DUCTBANKS, CONCRETE PADS ETC. REQUIRED BY THE UTILITY COMPANY. OBTAIN WRITTEN INSTRUCTIONS FROM THE UTILITY COMPANY BEFORE ROUGH IN.

B. CONTRACTOR SHALL BORE UNDERNEATH EXISTING PAVEMENT WHERE CONDUITS ARE ROUTED UNDER EXISTING PAVING. SAW CUTTING IS NOT PERMITTED WITHOUT OWNER PERMISSION PRIOR TO BEGINNING WORK.

C. CONDUIT SHALL BE PERMITTED TO BE ROUTED EXPOSED/SURFACE MOUNTED IN MECHANICAL YARDS. EXPOSED CONDUITS SHALL RUN PERPENDICULAR OR PARALLEL TO THE WALLS, BEAMS, ETC. ROUTING SHALL BE COORDINATED WITH OWNER PRIOR TO ROUGH-IN.

D. CONTRACTOR SHALL SAW CUT EXISTING CONCRETE SLABS WHEN REQUIRED TO INSTALL NEW RACEWAYS. COORDINATE PROPOSED ROUTING WITH ARCHITECT PRIOR TO SAW CUTTING. CONTRACTOR SHALL PATCH TO MATCH EXISTING CONDITIONS. PERFORM X-RAY SCAN ON ANY POST TENSION SLAB PRIOR TO COMMENCING CUTTING.

E. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS WHEN EXCAVATING TO AVOID DAMAGE TO EXISTING POWER, COMMUNICATIONS, WATER, SANITARY/SEWER, AND/OR GAS LINES THAT MAY BE BURIED IN AREAS OF NEW CONSTRUCTION OR WHEN TRENCHING FOR NEW FEEDERS AND BRANCHES IS REQUIRED. COORDINATE WITH CIVIL PLANS FOR ADDITIONAL INFORMATION.

F. COORDINATE EQUIPMENT LOCATIONS WITH ARCHITECTURAL AND CIVIL PLANS FOR EXACT EQUIPMENT LOCATION BEFORE INSTALLATION. EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE.

G. THE CONTRACTOR SHALL PROVIDE AND INSTALL PULL STRINGS TO ALL SPARE OR UNUSED UNDERGROUND CONDUITS.

H. CONTRACTOR SHALL PROVIDE CONDUIT AS REQUIRED BY DIVISION 27/28. COORDINATE WITH DIVISION 27/28 SYSTEM PROVIDER FOR EXACT SIZE AND QUANTITY OF CONDUITS REQUIRED.

I. PROVIDE FLUSH WITH GRADE TRAFFIC-RATED CONCRETE PULL-BOXES AS REQUIRED EVERY 250' MAXIMUM FOR ALL BELOW GRADE CONDUIT RUNS SHOWN. LOW VOLTAGE AND LINE VOLTAGE CABLING SHALL NOT BE RUN THROUGH THE SAME PULL BOX.

J. ELECTRICAL SERVICE PULL-BOXES/MANHOLES SHALL BE COORDINATED WITH THE POWER COMPANY. REFER TO POWER COMPANY STANDARDS FOR EXACT REQUIREMENTS.

K. UNDER GROUND BRANCH CIRCUITS CONDUITS SHALL BE A MINIMUM SIZE OF 1 INCH USING #10 AWG CONDUCTORS UNLESS OTHERWISE NOTED.

L. ALL UNDERGROUND FEEDERS AND BRANCH CIRCUIT SHALL BE PROVIDED WITH PULLBOXES AS REQUIRED BY NEC.

M. ALL PULL BOXES SHALL BE INSTALLED FLUSH WITH FINISHED GRADE. REFER TO CIVIL PLANS FOR FINAL GRADE ELEVATION.

N. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS. WHERE CONDUIT PATH CROSSES UNDER EXISTING PAVEMENT.

GENERAL ELECTRICAL DEMOLITION NOTES:

A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED THE EXISTING JOB SITE CONDITIONS DURING THE BIDDING PERIOD TO OBTAIN THE SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF THE ARCHITECTURAL MODIFICATIONS TO THE EXISTING CONDITIONS. THE SCOPE OF WORK SHALL INCLUDE MATERIALS AND OUTLETS, CONSISTING OF FIXTURES, DEVICES, EQUIPMENT OR APPARATUS, WHICH MUST BE REROUTED, RELOCATED OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED SO THAT THE REMODELING WORK MAY BE ACCOMPLISHED. NOT ALL EXISTING OUTLETS ARE NECESSARILY INDICATED ON THE DRAWINGS.

B. CONTRACTOR SHALL REVIEW DEMOLITION AND NEW WORK PLANS SIMULTANEOUSLY TO IDENTIFY SCOPE THAT IS TO BE MODIFIED FOR REUSE WITH NEW SCOPE.

C. CONTRACTOR SHALL VERIFY AND DOCUMENT EXISTING CONDITIONS OF ALL OUTLETS THAT ARE INDICATED OR REQUIRED TO BE REMOVED AND REINSTALLED TO FACILITATE THE WORK REQUIRED BY ALL TRADES. THE CONTRACTOR SHALL REPLACE NON-OPERABLE DEVICES AT NO ADDITIONAL COST TO THE OWNER. DOCUMENT OUTLETS IN NON-WORKING CONDITION PRIOR TO REMOVAL AND NOTIFY THE OWNER.

D. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL TO ALL REMOVED MATERIALS. CONTRACTOR SHALL COORDINATE WITH OWNER FOR LOCATION TO RETURN ANY AND ALL MATERIAL FOR OWNER STORAGE. FAILURE TO TURN OVER REMOVED MATERIAL TO OWNER MAY REQUIRE CONTRACTOR TO REPLACE EQUIPMENT REMOVED WITH NEW.

E. REMOVE ALL ELECTRICAL DEVICES WITHIN DEMOLISHED WALLS INCLUDING RECEPTACLES, DATA/TELEPHONE DROPS, PA DEVICES, CONDUIT, AND WIRING. ALL EXISTING DEVICES MAY NOT BE DOCUMENTED ON PLANS. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR DEMOLISHED WALLS. REMOVE CONDUIT AND WIRING BACK TO PANEL OR LAST ACTIVE JUNCTION BOX.

F. ALL ABANDONED CONDUIT AND BOXES FOUND IN CRAWLSPACES, CEILINGS SPACES, CHASES, OR UTILITY SPACES SHALL BE REMOVED. EXISTING UNDERGROUND CONDUIT MAY BE ABANDONED. CAP ABANDONED UNDERGROUND CONDUIT FLUSH WITH GRADE.

G. OWNER SHALL RESERVE THE RIGHT TO CLAIM ALL EQUIPMENT AND CABLING REMOVED DURING DEMOLITION.

H. RE-ESTABLISH SERVICE TO ALL OUTLETS THAT MAY BE INTERRUPTED DUE TO REMODELING WORK.

I. PROVIDE ALL APPURTENANCES REQUIRED TO REROUTE, RELOCATE, REMOVE OR REINSTALL ALL ITEMS REQUIRED BY SCOPE OF REMODEL.

J. ALL ABANDONED MATERIAL SHALL BE REMOVED FROM JOBSITE PRIOR TO PROJECT COMPLETION.

K. IDENTIFICATION AND LABELING SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATIONS.

L. CIRCUIT NUMBERS ARE FOR PLAN REFERENCE ONLY. CONTRACTOR SHALL RELABEL ALL CIRCUIT DIRECTORIES WITH LOAD NAMES FOR ALL EXISTING AND NEW PANELS THAT WERE MODIFIED WITHIN THIS PROJECT.

FIRE ALARM GENERAL NOTES:

A. CONTRACTOR SHALL SUBMIT LICENSED SEALED FIRE ALARM DRAWINGS TO THE AHJ/PERMIT OFFICE FOR PLAN REVIEW BY MEANS OF DEFERRED SUBMITTAL.

B. ALL CEILING MOUNTED DEVICES SHALL BE CENTERED IN THE CEILING TILE.

C. ALL FIRE ALARM VISUAL AND AUDIO/VISUAL DEVICES SHALL BE CONFIGURED TO PROVIDE CANDELA RATINGS IN ACCORDANCE WITH ADA & NFPA COVERAGES.

D. CONTRACTOR SHALL PROVIDE 120V DEDICATED 20A BRANCH CIRCUIT WITH LOCK-ON BREAKER PROVISIONS TO EACH SPEAKER AMPLIFIER AND VISUAL DEVICE POWER SUPPLIES AS REQUIRED BY FIRE ALARM SHOP DRAWINGS. CONNECT TO EMERGENCY POWER WHEN AVAILABLE.

E. ALL WIRING FOR DEVICES IN EXPOSED STRUCTURE AREAS SHALL BE ROUTED WITHIN CONDUIT. EXPOSED ROUTING SHALL BE AVOIDED. EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.

F. CONTRACTOR SHALL PROVIDE CONDUIT PATHWAYS FOR FIRE ALARM PLENUM CONDUCTORS WHERE ROUTED ABOVE HARD CEILING AREAS. CONDUIT RACEWAYS SHALL ALLOW ACCESS TO CONDUIT AT EACH END IN ACCESSIBLE LOCATIONS ABOVE CEILINGS.

G. LOCATE NEW SMOKE DETECTORS IN THE PATH OF EGRESS , ELECTRICAL, MECHANICAL, IDF ROOMS, STORAGE ROOMS AND OTHER LOCATIONS IN CHILDREN AREAS.

H. DUCT MOUNTED SMOKE DETECTORS SERVING HVAC UNITS WITH 2000 CFM OR GREATER SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION IN RETURN AIR DUCT INSIDE THE BUILDING THE UNIT SERVES. IT IS NOT ACCEPTABLE TO INSTALL DUCT MOUNTED SMOKE DETECTORS AT THE HVAC UNIT ON THE ROOF OR EXTERIOR OF THE BUILDING.

I. LOCATE HEAT DETECTORS IN BREAKROOM AREAS.

J. PROVIDE NEW AUDIO & VISUAL DEVICES PER APPLICABLE CODE.

K. FIRE ALARM SYSTEM SHALL BE PROVIDED PER PERFORMANCE SPEC, CONTRACTOR SHALL REFERENCE SPEC SECTION NUMBER 284600 FOR FIRE ALARM SYSTEM.

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39-25156-00

ELECTRICAL GENERAL NOTES

E0.11

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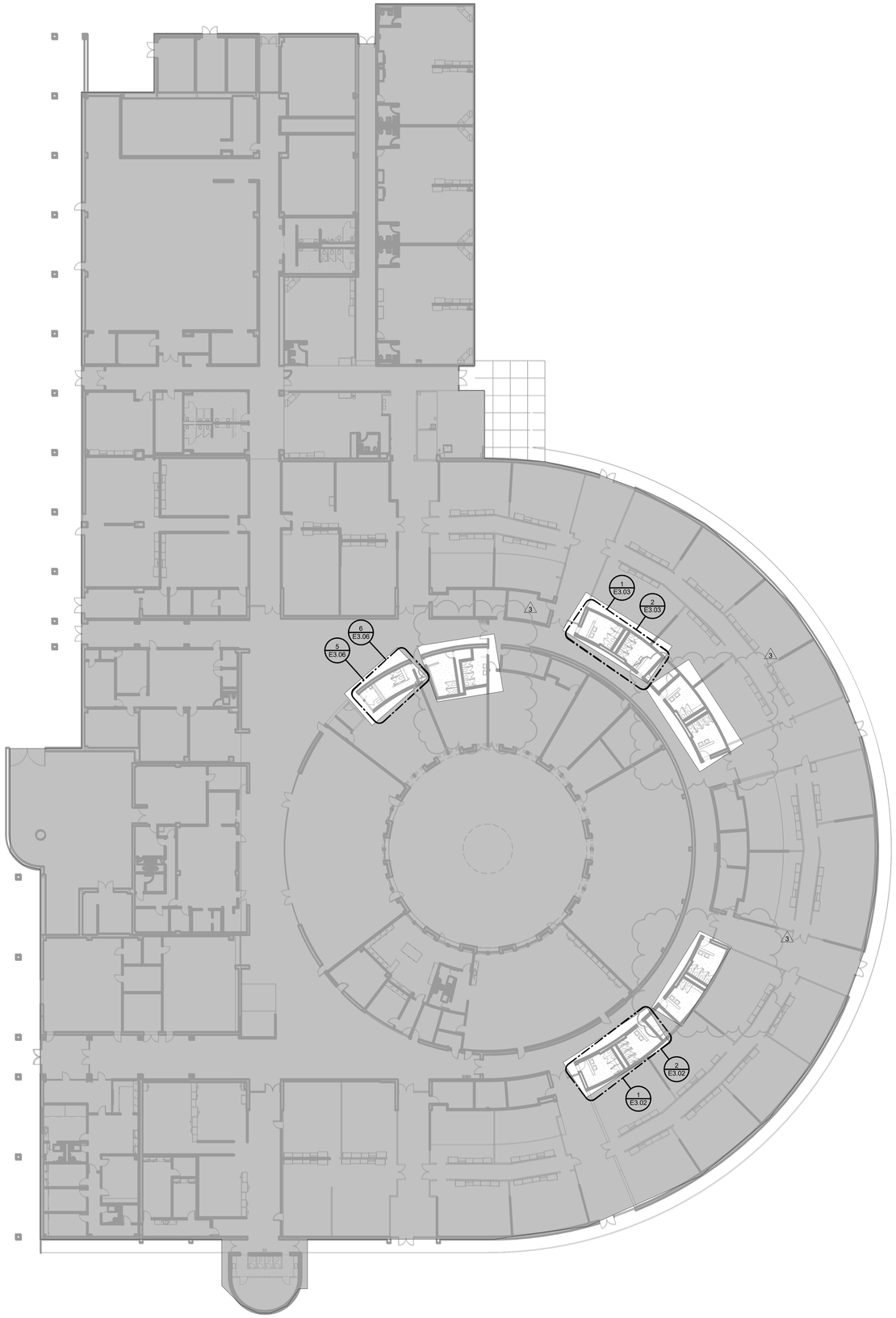
GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.



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1 **LEVEL 01 - COMPOSITE ELECTRICAL LIGHTING PLAN - DEMO AND NEW**

1" = 20'-0"

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LEVEL 01 - COMPOSITE ELECTRICAL LIGHTING PLAN - DEMO AND NEW

E1.11

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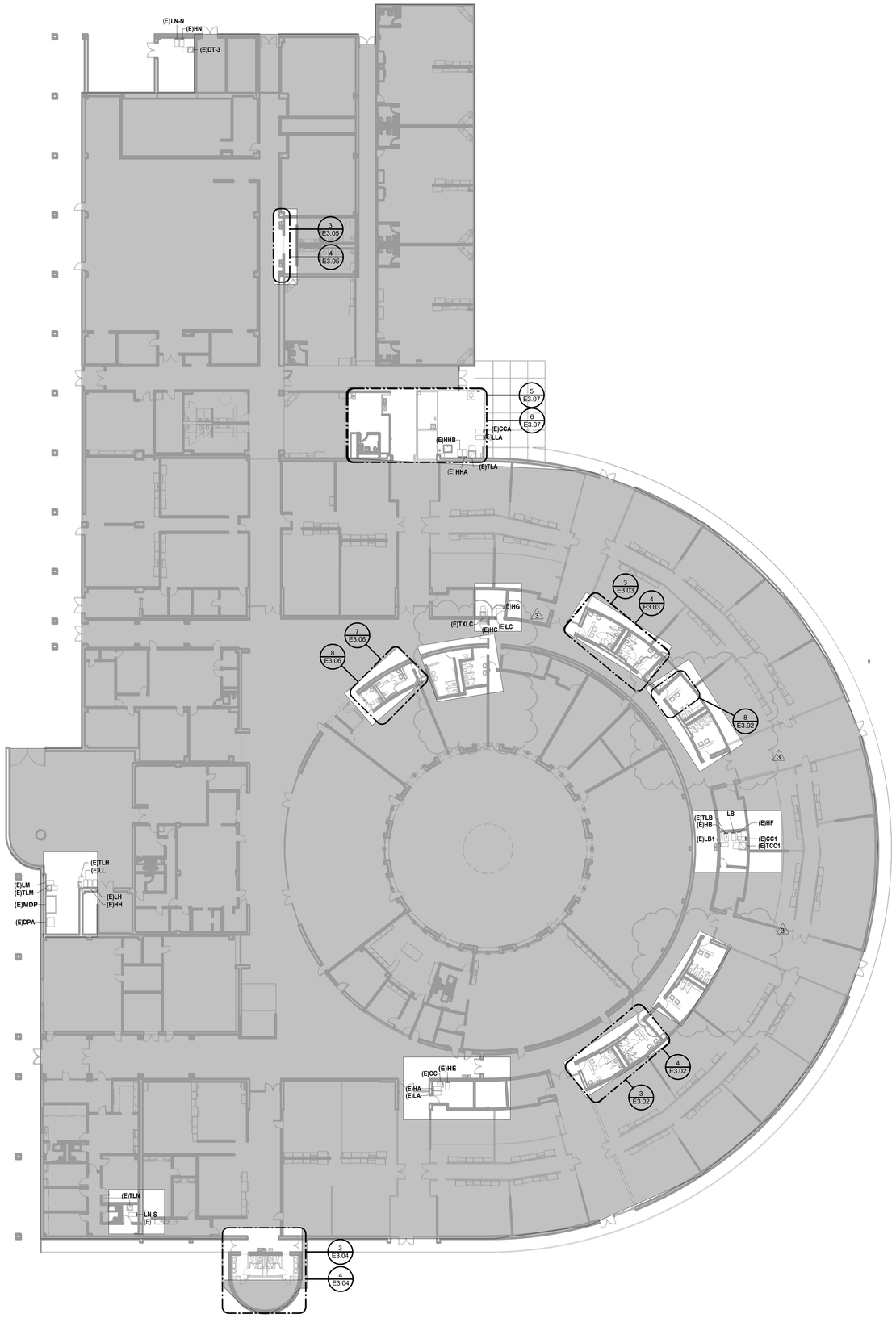

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1 **LEVEL 01 - COMPOSITE ELECTRICAL POWER PLAN - DEMO AND NEW**

1" = 20'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

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LEVEL 01 - COMPOSITE ELECTRICAL POWER PLAN - DEMO AND NEW

E2.11

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GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

☐ ELECTRICAL KEYED NOTES

☐ FIRE ALARM KEYED NOTES

3

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LEVEL 01 - ELECTRICAL PLANS - ENLARGED

E3.01

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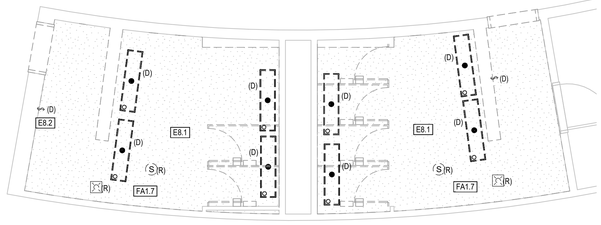
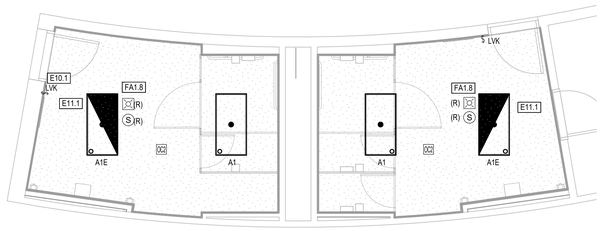
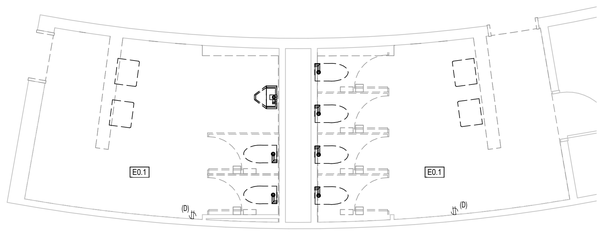


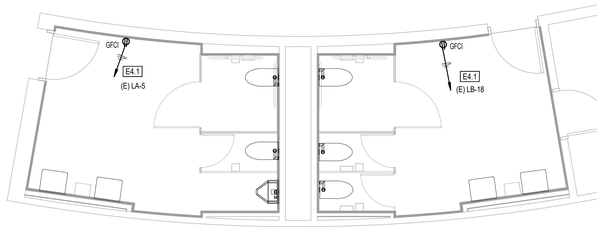
1 LEVEL 01 - DEMOLITION ELECTRICAL LIGHTING PLAN - BOYS 226 / GIRLS 227
1/4" = 1'-0"



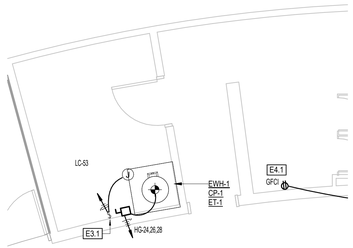
2 LEVEL 01 - ELECTRICAL LIGHTING PLAN - BOYS 226 / GIRLS 227
1/4" = 1'-0"



3 LEVEL 01 - DEMOLITION ELECTRICAL POWER PLAN - BOYS 226 / GIRLS 227
1/4" = 1'-0"



4 LEVEL 01 - ELECTRICAL POWER PLAN - BOYS 226 / GIRLS 227
1/4" = 1'-0"



8 LEVEL 01 - ELECTRICAL POWER PLAN - BOYS 247 / GIRLS 246
1/4" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

E0.1 DEMOLITION SCOPE OF WORK INCLUDES ALL AREAS WITH DEMOLISHED WALLS AND PARTIALLY DEMOLISHED WALLS. REMOVE CONDUCTORS AND CONDUIT BACK TO PANEL. ANY UNDER SLAB CONDUIT MAY BE ABANDONED IN PLACE. FOR ALL DEVICES REMOVED FROM WALLS THAT ARE EXISTING TO REMAIN, CONTRACTOR SHALL PATCH WALLS TO MATCH EXISTING CONDITIONS. COORDINATE WITH ARCHITECT. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

E3.1 PROVIDE 120V POWER TO CIRCULATION PUMP AND TIME SWITCH. PROVIDE ASSOCIATED DISCONNECTS AS REQUIRED. COORDINATE EXACT EQUIPMENT REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

E4.1 CONNECT NEW RECEPTACLE TO EXISTING CIRCUIT SERVING THIS SPACE PRIOR TO DEMOLITION. CONTRACTOR SHALL NOT EXCEED 80% BREAKER RATING PER NEC.

E8.1 EXISTING LIGHTING AND LIGHTING CONTROLS IN SPACE SHALL BE REMOVED. EXISTING LIGHTING CIRCUIT SHALL REMAIN AND BE REUSED. REFERENCE NEW PLANS FOR NEW LIGHTING LAYOUTS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

E8.2 APPROXIMATE LOCATION OF EXISTING SWITCH. EXISTING SWITCH SHALL BE DEMOLISHED AND NEW PROVIDED. REFER TO NEW PLANS. NEW SWITCH SHALL BE LOCATED IN SAME LOCATION AS REMOVED SWITCH. EXISTING SWITCH LOCATIONS SHALL BE FIELD VERIFIED, SWITCHES SHOWN ON PLAN FOR REFERENCE ONLY.

E10.1 APPROXIMATE LOCATION OF NEW SWITCH. NEW SWITCH SHALL BE LOCATED IN SAME LOCATION AS REMOVED SWITCH. EXISTING SWITCH LOCATIONS SHALL BE FIELD VERIFIED, SWITCHES SHOWN ON PLAN FOR REFERENCE ONLY.

E11.1 PROVIDE NEW LED LIGHTING AND NEW LIGHTING CONTROLS IN THIS SPACE AS SHOWN ON PLANS. RECONNECT TO EXISTING LIGHTING CIRCUIT AND TO NEW CONTROLS. EXTEND CONDUIT/CONDUCTORS AS REQUIRED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

FIRE ALARM KEYED NOTES

FA1.7 ALL EXISTING CEILING MOUNTED FIRE ALARM DEVICES AND PUBLIC ANNOUNCEMENT 'PA' SPEAKER(S) SHALL BE REMOVED AND RELOCATED, REFER TO NEW PLANS FOR NEW LAYOUTS.

FA1.8 PROVIDE RELOCATED CEILING MOUNTED FIRE ALARM DEVICES AND PUBLIC ANNOUNCEMENT 'PA' SPEAKER(S) DEVICES AS SHOWN ON PLANS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

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LEVEL 01 - ELECTRICAL PLANS - ENLARGED

E3.02

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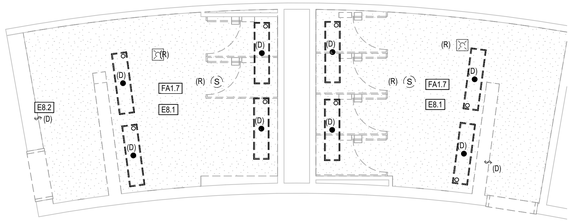
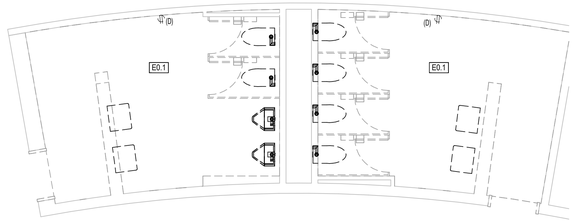


N

1 LEVEL 01 - DEMOLITION ELECTRICAL LIGHTING PLAN - BOYS 250 / GIRLS 249

1/4" = 1'-0"



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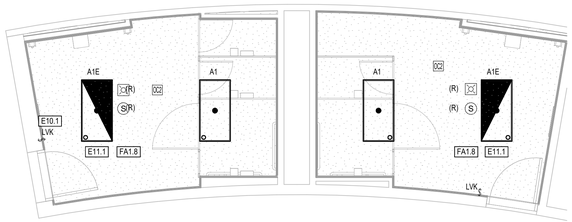
3 LEVEL 01 - DEMOLITION ELECTRICAL POWER PLAN - BOYS 250 / GIRLS 249

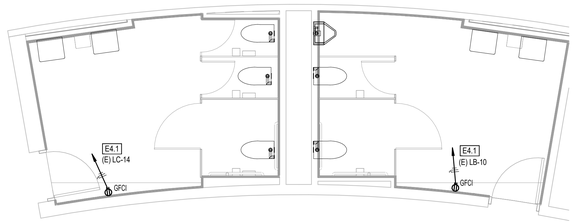
1/4" = 1'-0"



N

2 LEVEL 01 - ELECTRICAL LIGHTING PLAN - BOYS 250 / GIRLS 249

1/4" = 1'-0"



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4 LEVEL 01 - ELECTRICAL POWER PLAN - BOYS 250 / GIRLS 249

1/4" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

E0.1 DEMOLITION SCOPE OF WORK INCLUDES ALL AREAS WITH DEMOLISHED WALLS AND PARTIALLY DEMOLISHED WALLS. REMOVE CONDUCTORS AND CONDUIT BACK TO PANEL. ANY UNDER SLAB CONDUIT MAY BE ABANDONED IN PLACE. FOR ALL DEVICES REMOVED FROM WALLS THAT ARE EXISTING TO REMAIN, CONTRACTOR SHALL PATCH WALLS TO MATCH EXISTING CONDITIONS. COORDINATE WITH ARCHITECT. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

E4.1 CONNECT NEW RECEPTACLE TO EXISTING CIRCUIT SERVING THIS SPACE PRIOR TO DEMOLITION. CONTRACTOR SHALL NOT EXCEED 80% BREAKER RATING PER NEC.

E8.1 EXISTING LIGHTING AND LIGHTING CONTROLS IN SPACE SHALL BE REMOVED. EXISTING LIGHTING CIRCUIT SHALL REMAIN AND BE REUSED. REFERENCE NEW PLANS FOR NEW LIGHTING LAYOUTS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

E8.2 APPROXIMATE LOCATION OF EXISTING SWITCH. EXISTING SWITCH SHALL BE DEMOLISHED AND NEW PROVIDED. REFER TO NEW PLANS. NEW SWITCH SHALL BE LOCATED IN SAME LOCATION AS REMOVED SWITCH. EXISTING SWITCH LOCATIONS SHALL BE FIELD VERIFIED, SWITCHES SHOWN ON PLAN FOR REFERENCE ONLY.

E10.1 APPROXIMATE LOCATION OF NEW SWITCH. NEW SWITCH SHALL BE LOCATED IN SAME LOCATION AS REMOVED SWITCH. EXISTING SWITCH LOCATIONS SHALL BE FIELD VERIFIED, SWITCHES SHOWN ON PLAN FOR REFERENCE ONLY.

E11.1 PROVIDE NEW LED LIGHTING AND NEW LIGHTING CONTROLS IN THIS SPACE AS SHOWN ON PLANS. RECONNECT TO EXISTING LIGHTING CIRCUIT AND TO NEW CONTROLS. EXTEND CONDUIT/CONDUCTORS AS REQUIRED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

FIRE ALARM KEYED NOTES

FA1.7 ALL EXISTING CEILING MOUNTED FIRE ALARM DEVICES AND PUBLIC ANNOUNCEMENT 'PA' SPEAKER(S) SHALL BE REMOVED AND RELOCATED, REFER TO NEW PLANS FOR NEW LAYOUTS.

FA1.8 PROVIDE RELOCATED CEILING MOUNTED FIRE ALARM DEVICES AND PUBLIC ANNOUNCEMENT 'PA' SPEAKER(S) DEVICES AS SHOWN ON PLANS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

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LEVEL 01 - ELECTRICAL PLANS - ENLARGED

E3.03

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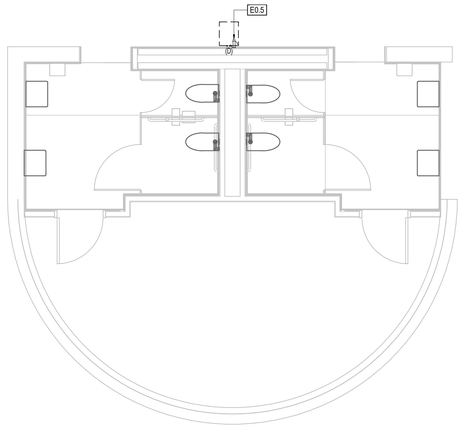
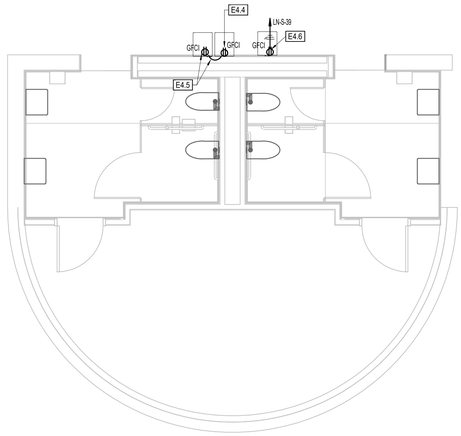


3 **LEVEL 01 - DEMOLITION ELECTRICAL POWER PLAN - BOYS AND GIRLS 207**
1/4" = 1'-0"



4 **LEVEL 01 - ELECTRICAL POWER PLAN - BOYS AND GIRLS 207**
1/4" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

E0.5 EXISTING DRINKING FOUNTAIN BEING DEMOLISHED AND REPLACED WITH NEW. CONTRACTOR SHALL DEMOLISH EXISTING RECEPTACLE AND PROVIDE NEW, REFER TO NEW ELECTRICAL PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.

E4.4 APPROXIMATE LOCATION OF NEW DRINKING FOUNTAIN REPLACING EXISTING ONE. PROVIDE NEW GFCI ELECTRICAL RECEPTACLE AS SHOWN ON PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED. REFER TO ELECTRICAL FOUNTAIN DETAIL #6/ES.01. PROVIDE REMOTE GFCI TEST BUTTON ADJACENT TO DRINKING FOUNTAIN AT NORMAL RECEPTACLE HEIGHT IN AN ACCESSIBLE LOCATION. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.

E4.5 CONNECT NEW GFCI RECEPTACLE WITH EXISTING RECEPTACLE CIRCUIT SERVING THIS AREA. CONTRACTOR SHALL FIELD VERIFY/COORDINATE EXACT LOCATIONS, INSTALLATION DETAILS, ETC. WITH ARCHITECT/OWNER PRIOR TO STARTING ANY WORK. CONTRACTOR SHALL NOT EXCEED 80% BREAKER RATING PER NEC.

E4.6 APPROXIMATE LOCATION OF NEW DRINKING FOUNTAIN. PROVIDE NEW GFCI ELECTRICAL RECEPTACLE AS SHOWN ON PLANS. REFER TO ELECTRICAL FOUNTAIN DETAIL #6/ES.01. PROVIDE REMOTE GFCI TEST BUTTON ADJACENT TO DRINKING FOUNTAIN AT NORMAL RECEPTACLE HEIGHT IN AN ACCESSIBLE LOCATION. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.

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LEVEL 01 - ELECTRICAL PLANS - ENLARGED

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GENERAL ELECTRICAL NOTE:

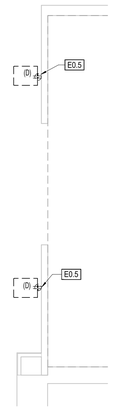
A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

E0.5 EXISTING DRINKING FOUNTAIN BEING DEMOLISHED AND REPLACED WITH NEW. CONTRACTOR SHALL DEMOLISH EXISTING RECEPTACLE AND PROVIDE NEW, REFER TO NEW ELECTRICAL PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.

E4.4 APPROXIMATE LOCATION OF NEW DRINKING FOUNTAIN REPLACING EXISTING ONE. PROVIDE NEW GFCI ELECTRICAL RECEPTACLE AS SHOWN ON PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED. REFER TO ELECTRICAL FOUNTAIN DETAIL #E/ES.01. PROVIDE REMOTE GFCI TEST BUTTON ADJACENT TO DRINKING FOUNTAIN AT NORMAL RECEPTACLE HEIGHT IN AN ACCESSIBLE LOCATION. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.

E4.7 PROVIDE NEW GFCI TYPE DUPLEX RECEPTACLE. EXISTING CIRCUIT, CONDUIT AND CONDUCTORS SHALL BE REUSED. REFER TO DEMOLITION PLANS FOR ADDITIONAL DETAILS.



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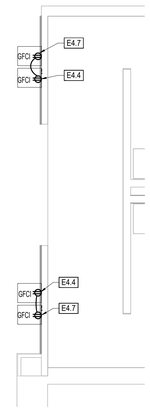
3 LEVEL 01 - DEMOLITION ELECTRICAL POWER PLAN - BOYS/GIRLS ADDITION

1/4" = 1'-0"

FIRE ALARM KEYED NOTES



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4 LEVEL 01 - ELECTRICAL POWER PLAN - BOYS/GIRLS ADDITION

1/4" = 1'-0"

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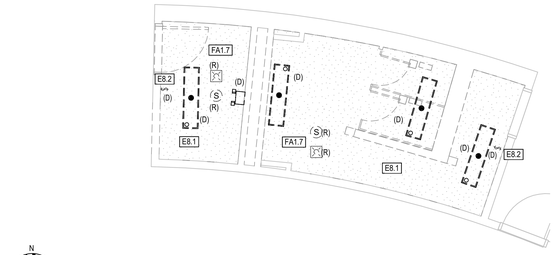

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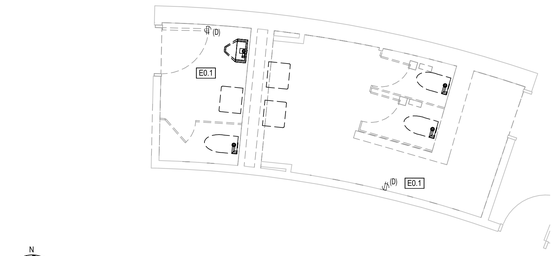
5 LEVEL 01 - DEMOLITION ELECTRICAL LIGHTING PLAN - MENS 131 / WOMENS 130

1/4" = 1'-0"

N

6 LEVEL 01 - ELECTRICAL LIGHTING PLAN - MENS 131 / WOMENS 130

1/4" = 1'-0"



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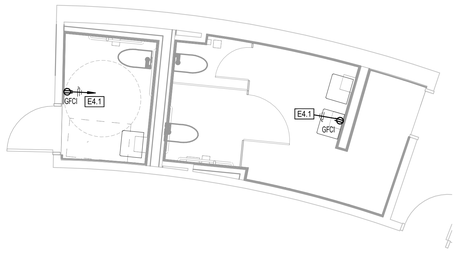
7 LEVEL 01 - DEMOLITION ELECTRICAL POWER PLAN - MENS 131 / WOMENS 130

1/4" = 1'-0"



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8 LEVEL 01 - ELECTRICAL POWER PLAN - MENS 131 / WOMENS 130

1/4" = 1'-0"

GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

E0.1 DEMOLITION SCOPE OF WORK INCLUDES ALL AREAS WITH DEMOLISHED WALLS AND PARTIALLY DEMOLISHED WALLS. REMOVE CONDUCTORS AND CONDUIT BACK TO PANEL. ANY UNDER SLAB CONDUIT MAY BE ABANDONED IN PLACE. FOR ALL DEVICES REMOVED FROM WALLS THAT ARE EXISTING TO REMAIN, CONTRACTOR SHALL PATCH WALLS TO MATCH EXISTING CONDITIONS. COORDINATE WITH ARCHITECT. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

E4.1 CONNECT NEW RECEPTACLE TO EXISTING CIRCUIT SERVING THIS SPACE PRIOR TO DEMOLITION. CONTRACTOR SHALL NOT EXCEED 80% BREAKER RATING PER NEC.

E8.1 EXISTING LIGHTING AND LIGHTING CONTROLS IN SPACE SHALL BE REMOVED. EXISTING LIGHTING CIRCUIT SHALL REMAIN AND BE REUSED. REFERENCE NEW PLANS FOR NEW LIGHTING LAYOUTS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

E8.2 APPROXIMATE LOCATION OF EXISTING SWITCH. EXISTING SWITCH SHALL BE DEMOLISHED AND NEW PROVIDED. REFER TO NEW PLANS. NEW SWITCH SHALL BE LOCATED IN SAME LOCATION AS REMOVED SWITCH. EXISTING SWITCH LOCATIONS SHALL BE FIELD VERIFIED, SWITCHES SHOWN ON PLAN FOR REFERENCE ONLY.

E10.1 APPROXIMATE LOCATION OF NEW SWITCH. NEW SWITCH SHALL BE LOCATED IN SAME LOCATION AS REMOVED SWITCH. EXISTING SWITCH LOCATIONS SHALL BE FIELD VERIFIED, SWITCHES SHOWN ON PLAN FOR REFERENCE ONLY.

E11.1 PROVIDE NEW LED LIGHTING AND NEW LIGHTING CONTROLS IN THIS SPACE AS SHOWN ON PLANS. RECONNECT TO EXISTING LIGHTING CIRCUIT AND TO NEW CONTROLS. EXTEND CONDUIT/CONDUCTORS AS REQUIRED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

FIRE ALARM KEYED NOTES

FA1.7 ALL EXISTING CEILING MOUNTED FIRE ALARM DEVICES AND PUBLIC ANNOUNCEMENT 'PA' SPEAKER(S) SHALL BE REMOVED AND RELOCATED, REFER TO NEW PLANS FOR NEW LAYOUTS.

FA1.8 PROVIDE RELOCATED CEILING MOUNTED FIRE ALARM DEVICES AND PUBLIC ANNOUNCEMENT 'PA' SPEAKER(S) DEVICES AS SHOWN ON PLANS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER PRIOR TO STARTING ANY WORK.

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LEVEL 01 - ELECTRICAL PLANS - ENLARGED

E3.06

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GENERAL ELECTRICAL NOTE:

A. REFER TO SHEET E0.11 FOR ALL GENERAL ELECTRICAL NOTES.

ELECTRICAL KEYED NOTES

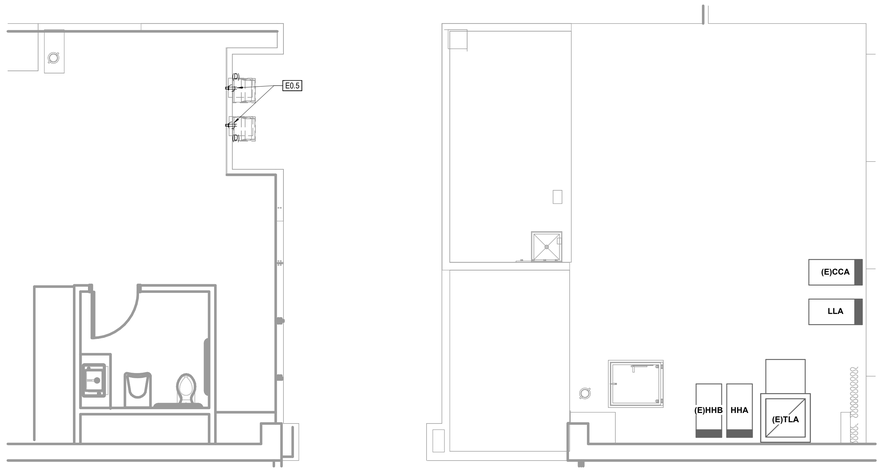
E0.5 EXISTING DRINKING FOUNTAIN BEING DEMOLISHED AND REPLACED WITH NEW. CONTRACTOR SHALL DEMOLISH EXISTING RECEPTACLE AND PROVIDE NEW, REFER TO NEW ELECTRICAL PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.

E3.1 PROVIDE 120V POWER TO CIRCULATION PUMP AND TIME SWITCH. PROVIDE ASSOCIATED DISCONNECTS AS REQUIRED. COORDINATE EXACT EQUIPMENT REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

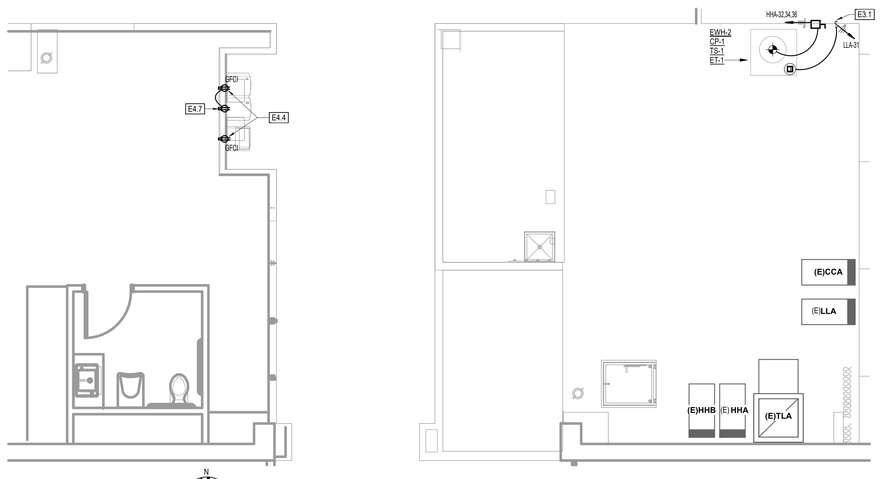
E4.4 APPROXIMATE LOCATION OF NEW DRINKING FOUNTAIN REPLACING EXISTING ONE. PROVIDE NEW GFCI ELECTRICAL RECEPTACLE AS SHOWN ON PLANS. REUSE EXISTING ELECTRICAL CIRCUIT AND EXTEND CONDUCTORS AND CONDUIT AS REQUIRED. REFER TO ELECTRICAL FOUNTAIN DETAIL #5/E5.01. PROVIDE REMOTE GFCI TEST BUTTON ADJACENT TO DRINKING FOUNTAIN AT NORMAL RECEPTACLE HEIGHT IN AN ACCESSIBLE LOCATION. COORDINATE WITH PLUMBING CONTRACTOR AND ARCHITECT PRIOR TO STARTING ANY WORK.

E4.7 PROVIDE NEW GFCI TYPE DUPLEX RECEPTACLE. EXISTING CIRCUIT, CONDUIT AND CONDUCTORS SHALL BE REUSED. REFER TO DEMOLITION PLANS FOR ADDITIONAL DETAILS.

FIRE ALARM KEYED NOTES



5 **LEVEL 01 - DEMOLITION ELECTRICAL POWER PLAN - MECH 608**
1/4" = 1'-0"



6 **LEVEL 01 - ELECTRICAL POWER PLAN - MECH 608**
1/4" = 1'-0"

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LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	MOUNTING	LAMPS	VOLTAGE	WATTAGE	DESCRIPTION
A1	DAYBRITE	2FPZ-48L-835-4-DS-UNV-DIM-FSK24	RECESSED	3500K LED	277 V	37 VA	2X4 LED FLAT PANEL WITH 4800 LUMENS AND 0-10V DIMMING.
A1E	DAYBRITE	2FPZ-48L-835-4-DS-UNV-DIM-FSK24	RECESSED	3500K LED	277 V	37 VA	2X4 LED FLAT PANEL WITH 4800 LUMENS AND 0-10V DIMMING. PROVIDE 90 MINUTE BATTERY BACKUP.
B1	DAYBRITE	2FPZ-45L-835-2-DS-UNV-DIM-FSK22	RECESSED	3500K LED	277 V	58 VA	2X2 LED FLAT PANEL WITH 4500 LUMENS AND 0-10V DIMMING.
B1E	DAYBRITE	2FPZ-45L-835-2-DS-UNV-DIM-FSK22	RECESSED	3500K LED	277 V	36 VA	2X2 LED FLAT PANEL WITH 4500 LUMENS AND 0-10V DIMMING. PROVIDE 90 MINUTE BATTERY BACKUP.

NOTES:
1. LIGHTING FIXTURE CATALOG NUMBERS AND DESCRIPTIONS ARE SCHEDULED FOR ESTABLISHING QUALITY, APPEARANCE AND PERFORMANCE OF THE FIXTURES AS REQUIRED BY THE DESIGN. EXACT CATALOG NUMBERS DESCRIBING MOUNTING CONDITIONS, FINISHES AND REQUIREMENTS RELATED TO TRIMS AND LENS FOR ALL FIXTURES SHALL BE CONFIRMED (BY THE CONTRACTOR) WITH THE ROOM FINISH SCHEDULE AND REFLECTED CEILING PLANS, INCLUDING GRID TYPES, ON THE ARCHITECTURAL DRAWINGS PRIOR TO BIDDING. FIXTURES SHALL BE SUBMITTED ACCORDING TO THE CONDITIONS INDICATED ON THE ARCHITECTURAL PLANS. REFER TO THE WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. THE NEW LIGHT FIXTURES SCHEDULED ARE THE BASIS OF DESIGN. IT IS NOT INTENDED TO LIMIT COMPETITION FROM EQUAL MANUFACTURERS. ALL BIDDERS SHALL SUBMIT THEIR PROPOSED LIGHT FIXTURES IN SUBMITTAL FORM A MINIMUM OF 10 BUSINESS DAYS PRIOR TO BID DATE FOR REVIEW. APPROVED LIGHT FIXTURES WILL BE ISSUED IN AN ADDENDUM.

LIGHTING CONTROLS DEVICE SCHEDULE

TYPE	DESCRIPTION	COMMENTS
S S^3 S^4 S^K	LINE VOLTAGE SWITCH.	'3' INDICATES THREE WAY SWITCHING. '4' INDICATES FOUR WAY SWITCHING. 'K' INDICATES SWITCH SHALL BE KEYED SWITCH.
S^{OC1}	LINE VOLTAGE WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR	SENSOR SHALL BE SET TO VACANCY MODE
S^{OC2}	LINE VOLTAGE WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DUAL RELAYS.	SENSOR SHALL BE SET TO VACANCY MODE. ONE RELAY SHALL SERVE 120 VOLT LIGHTING IN AREA INDICATED, AND ONE RELAY SHALL SERVE 277 VOLT LIGHTING.
S^{DCD}	LOW VOLTAGE OC SENSOR SWITCH WITH 0-10V DIMMER	SENSOR SHALL BE SET TO VACANCY MODE
S^{LV} S^{LVK}	LOW VOLTAGE MANUAL CONTROL.	CONNECT TO POWER PACK OR ROOM CONTROLLER IF OCCUPANCY SENSORS ARE INDICATED ON PLAN. PROVIDE MULTI-BUTTON SWITCH AS REQUIRED PER SWITCH LEGS SHOWN ON PLANS. 'K' INDICATES SWITCH SHALL BE KEYED SWITCH.
S^{D}	LOW VOLTAGE SWITCH WITH 0-10V DIMMER	PROVIDE MULTI-BUTTON SWITCH AS REQUIRED PER SWITCH LEGS SHOWN ON PLANS. PROVIDE POWER PACKS OR ROOM CONTROLLERS AS REQUIRED.
OC1	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO VACANCY MODE. PROVIDE POWER PACKS AS NEEDED.
OC2	CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR.	SET TO OCCUPANCY MODE. PROVIDE POWER PACKS AS REQUIRED.

NOTES:
1. WATTSTOPPER IS THE BASIS OF DESIGN.
2. THE LIGHTING CONTROLS SCHEDULED ARE THE BASIS OF DESIGN. IT IS NOT INTENDED TO LIMIT COMPETITION FROM EQUAL MANUFACTURERS. ALL BIDDERS SHALL SUBMIT THEIR PROPOSED LIGHTING CONTROLS IN SUBMITTAL FORM A MINIMUM OF 10 BUSINESS DAYS PRIOR TO BID DATE FOR REVIEW. APPROVED LIGHTING CONTROL SYSTEMS WILL BE ISSUED IN AN ADDENDUM.
3. BASIS OF DESIGN SHALL BE A HARD-WIRED TYPE SYSTEM, UNLESS NOTED OTHERWISE.

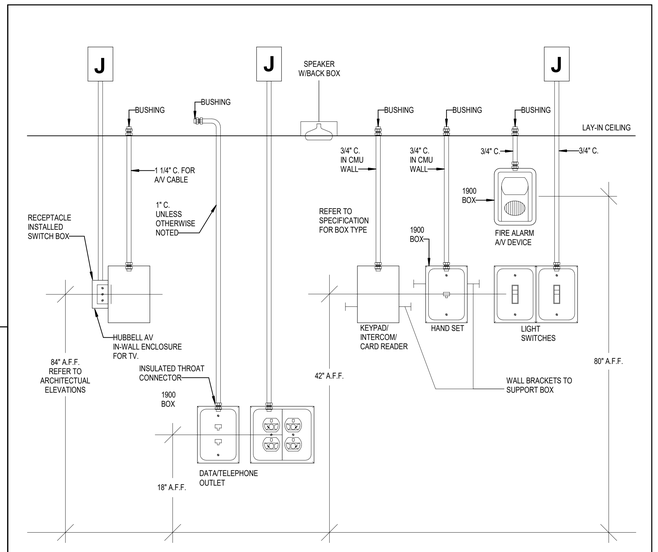
2021 STANDARD SEQUENCE OF OPERATIONS

v1 - 05192022

ROOM TYPE	AUTO ON†	MANUAL ON (VACANCY)	AUTO OFF (20MIN MAX)	PARTIAL OFF AT NORMAL HOURS2	AUTO OFF - AFTER HOURS (30MIN MAX)	TIME ON	TIME OFF	ASTRONOMIC or PHOTOCELL ON/OFF	AUTO STEP CONTROL WITH OFF4	AUTO CONTINUOUS DIM WITH OFF4, 5	MANUAL BI-LEVEL REDUCTION CONTROL6	MANUAL CONTINUOUS DIM CONTROL	MANUAL ON/OFF SWITCH	MANUAL DIMMER SWITCH	DISPLAY, ACCENT, TASK CONTROL7	AUTOMATIC RECEPTACLE CONTROL	SEQUENCE OF OPERATION
	OCCUPANCY SENSOR					TIME SWITCH			DAYLIGHT CTL		LT REDUCT		MANUAL CONTROL				
Spaces (≤ 300 sq ft)	50%		20 min							D	●	D	●	D			Auto On 50%. Occupancy sensor Auto Off. Manual control and ≥50% light reduction with two on/off controls; Where >150W in daylight area, use continuous dimming daylighting control and dimmer switch.
Janitor Closet		●	20 min										●				Manual On; Occupancy sensor Auto Off. Manual control device.
Restroom	100%		20 min										●				Auto On 100%. Occupancy sensor Auto Off. Manual control.

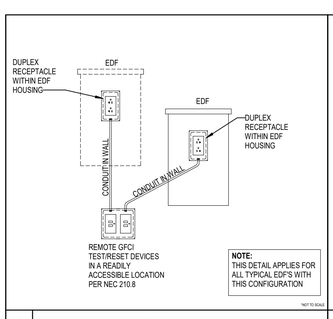
●■ Designation for code compliant default control design for spaces without daylighting control
D = Where daylighting control is required, "D" designation indicates controls required in the space for code compliance design
CK = Captive Key Switch system for use in Hotel/Motel and Guest Suites

NOTES:
1 May be Manual On or Auto On to ≤50%. Full Auto On only permitted in Corridors, Interior Parking, Stairways, Lobbies, Restrooms, Open Office, Library Stacks, Locker Rooms.
2 Partial Auto Off must reduce lighting by ≥50% during normal operating hours in corridors, warehouse aisles and open areas. Each aisle must be independently controlled. Full Auto Off complies with Partial Auto Off.
3 Exterior / Parking / Site lighting must Auto Off during daylight hours, reduce by at least 50% between midnight and 6AM or from one hour after business closing until 6AM before business opening.
4Automatic daylight control required where >150W lighting power in toplight or sidelight daylight area. Continuous dimming with Off. Assumes 0-10V dimmable fixtures in daylight and non-daylight area unless otherwise specified.
5Code requires automatic continuous dimming with full Off capability in daylighting areas of all space types.
6Manual bilevel lighting reduction control must allow ≥50% of the general lighting to be manually turned off by a control device located in the space.
7Display, Accent and Task lighting must have manual control independent from general lighting. Auto Off with occupancy sensors or time switch control required. Exempt from automatic daylighting control.

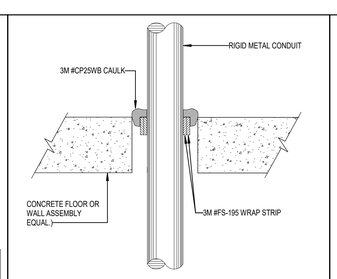


NOTE: COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.

1 TYPICAL DEVICE ELEVATIONS E1001

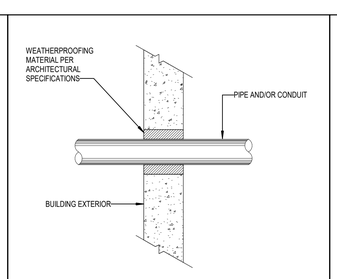


6 ELEC. DRINKING FOUNTAIN E1009

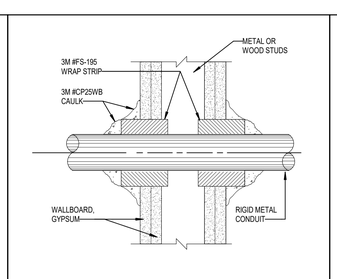


NOTE: FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.

5 2, 3 AND 4 HR. PENETRATIONS FOR CONCRETE E1007

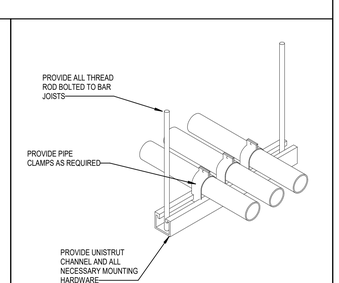


4 PIPE AND/OR CONDUIT PENETRATION E1006

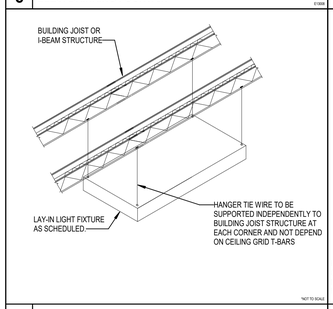


NOTE: FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION

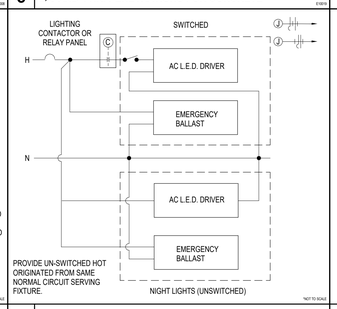
3 2 HR. GYPSUM WALLBOARD PIPE PENETRATION E1007



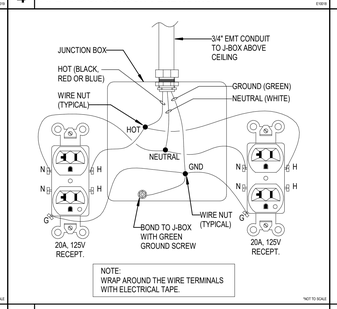
2 UNISTRUT CONDUIT E1005



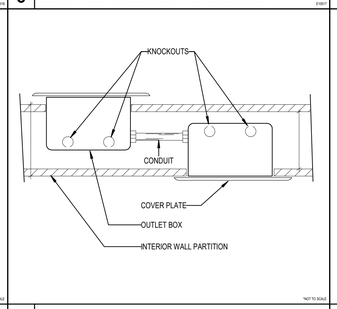
13 LIGHTING FIXTURE SUPPORT E1424



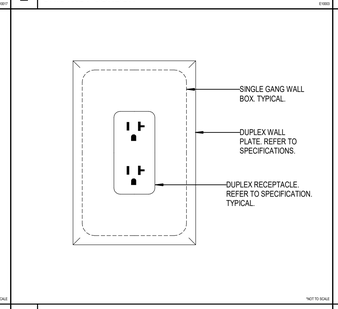
12 EMERGENCY BATTERY WIRING E1403



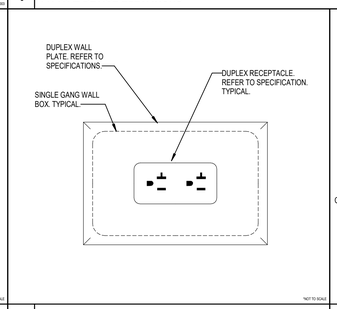
11 20A, 125V RECEPTACLE WIRING E1007



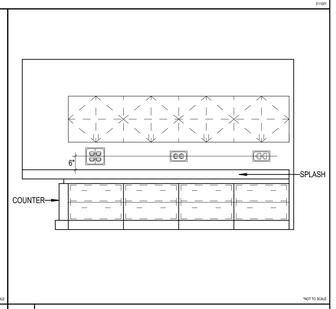
10 BACK - TO - BACK OUTLETS E1007



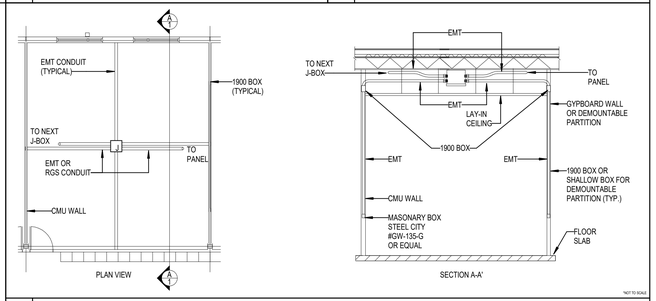
9 TYPICAL RECEPTACLE MOUNTING E1978



8 HORIZONTAL RECEPTACLE MOUNTING E1978



7 TYPICAL COUNTERTOP DEVICE ELEVATION E1009



14 TYPICAL RACEWAY CONFIGURATION E1001

DLR GROUP
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BRENT B. MOE 117260 LICENSED PROFESSIONAL ENGINEER 4-6-26
DBR 713.914.0888 p Houston, Texas 77098 www.dbr-houston.com TBPE Firm Registration No. 2234 DBR Project # 250076.000
BM RM/TG/LB/MS TN/JAL -

SMITH E.S. - RESTROOM RENOVATIONS
ALIEF INDEPENDENT SCHOOL DISTRICT
11300 STANCLIFF RD HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
10-31-25
REVISIONS
2 02-11-26 ISSUE FOR BID & PERMIT
3 04-06-26 OWNER VE

39-25156-00

ELECTRICAL SCHEDULES & DETAILS

E5.01

Autodesk Docs://39-25156-00 Alief ISD restrm reno/250076_SMITH EL RESTROOM RENO_MEP24.rvt
2/11/2026 11:35:28 AM

Panelboard HHA

65000 A AIC Rating
New
X Existing

480/277 Wye Volt, 3 Phase, 4 Wire · 1 Section · Type 1 -Nema Rating | Mains Type: MCB | 400 A MCB -- · 400 A BUS (Copper) · -- | LUGS: -- · -- | Mounting Stye: SURFACE

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
1	1000 VA	--	EXIST LOAD LIGHTING	12	20 A	1	2						
1	1000 VA	--	EXIST LOAD LIGHTING	12	20 A	3	4	50 A	8	EXISTING LOAD	--	24939 VA	1
1	1000 VA	--	EXIST LOAD LIGHTING	12	20 A	5	6						
1	1000 VA	--	EXIST LOAD LIGHTING	12	20 A	7	8						
1	1000 VA	--	EXIST LOAD LIGHTING	12	20 A	9	10	30 A	10	EXISTING LOAD	--	14964 VA	1
1	1000 VA	--	EXIST LOAD CORRIDOR...	12	20 A	11	12						
1	1000 VA	--	EXIST LOAD CORRIDOR...	12	20 A	13	14						
1	1000 VA	--	EXIST LOAD EXTERIOR...	12	20 A	15	16	20 A	12	EXISTING LOAD	--	13302 VA	1
1	1000 VA	--	EXISTING LOAD	12	20 A	17	18						
1	1000 VA	--	EXISTING LOAD	12	20 A	19	20						
1	1000 VA	--	EXISTING LOAD	12	20 A	21	22	20 A	12	EXISTING LOAD	--	13302 VA	1
1	1000 VA	--	EXISTING LOAD	12	20 A	23	24						
1	1000 VA	--	EXISTING LOAD	12	20 A	25	26						
1	1000 VA	--	EXISTING LOAD	12	20 A	27	28	100 A	3	EXISTING LOAD	--	49881 VA	1
1	1000 VA	--	EXISTING LOAD	12	20 A	29	30						
	0 VA	--	Space	12	--	31	32						
	0 VA	--	Space	12	--	33	34	15 A	12	EWH-2	WH	2000 VA	3
	0 VA	--	Space	12	--	35	36						
						37	38						
1	0 VA	--	(NOT A SPACE PROVISIONS FOR SUBFEED BREAKER)	12	--	39	40	110 A	1	(E)TLA (SUBFEED BREAKER)	Spare; WH	26569 VA	1
						41	42						

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.47	(R)Receptacle				210.20A	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.	2085 VA	100.00%	2085 VA
220.60	(F)Fans				220.50	(MT)Lrg. Motor			
	(M)Misc.					(SP)Sub Pnl.			
					630.11B	(W) Welders			

Total Connected Load: 159957 VA VA = 192 A
Total Load (Diversified): 159957 VA VA = 192 A
Location of Panel:

Panelboard LLA

10000 A AIC Rating
New
X Existing

120/208 Wye Volt, 3 Phase, 4 Wire · 1 Section · Type 1 -Nema Rating | Mains Type: MCB | 150 A MCB -- · 225 A BUS (Copper) · -- | LUGS: -- · -- | Mounting Stye: SURFACE

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
1	500 VA	--	EXISTING LOAD	12	20 A	1	2	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	3	4	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	5	6	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	7	8	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	9	10	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	11	12	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	13	14	20 A	12	EXISTING LOAD	--	2496 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	15	16						
1	500 VA	--	EXISTING LOAD	12	20 A	17	18	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	19	20	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	21	22	60 A	6	EXISTING LOAD	--	7488 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	23	24						
1	500 VA	--	EXISTING LOAD	12	20 A	25	26	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	27	28	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	29	30	20 A	12	EXISTING LOAD	--	500 VA	1
3	85 VA	WH	CP-2	12	20 A	31	32	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	33	34	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	35	36	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	37	38	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	39	40	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	41	42	20 A	12	EXISTING LOAD	--	500 VA	1

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.47	(R)Receptacle				210.20A	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.	85 VA	100.00%	85 VA
220.60	(F)Fans				220.50	(MT)Lrg. Motor			
	(M)Misc.					(SP)Sub Pnl.			
					630.11B	(W) Welders			

Total Connected Load: 26569 VA VA = 74 A
Total Load (Diversified): 26569 VA VA = 74 A
Location of Panel:

Panelboard HG

65000 A AIC Rating
New
X Existing

480/277 Wye Volt, 3 Phase, 4 Wire · 1 Section · Type 1 -Nema Rating | Mains Type: MCB | 150 A MCB -- · 150 A BUS (Copper) · -- | LUGS: -- · -- | Mounting Stye: SURFACE

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
						1	2	20 A	12	EXISTING LOAD	--	1000 VA	1
1	19953 VA	--	EXISTING LOAD	8	40 A	3	4	20 A	12	EXISTING LOAD	--	1000 VA	1
						5	6	20 A	12	EXISTING LOAD	--	1000 VA	1
						7	8	20 A	12	EXISTING LOAD	--	1000 VA	1
1	19953 VA	--	EXISTING LOAD	8	40 A	9	10	20 A	12	EXISTING LOAD	--	1000 VA	1
						11	12	20 A	12	EXISTING LOAD	--	1000 VA	1
						13	14	20 A	12	EXISTING LOAD	--	1000 VA	1
1	9975 VA	--	EXISTING LOAD	12	20 A	15	16	20 A	12	EXISTING LOAD	--	1000 VA	1
						17	18	20 A	12	EXISTING LOAD	--	1000 VA	1
						19	20	20 A	12	EXISTING LOAD	--	1000 VA	1
1	9975 VA	--	EXISTING LOAD	12	20 A	21	22	20 A	12	EXISTING LOAD	--	1000 VA	1
						23	24						
						25	26	15 A	12	EWH-1	WH	3000 VA	3
1	9975 VA	--	EXISTING LOAD	12	20 A	27	28						
						29	30	--	12	Space	--	0 VA	
						31	32	--	12	Space	--	0 VA	
1	9975 VA	--	EXISTING LOAD	12	20 A	33	34	--	12	Space	--	0 VA	
						35	36	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	37	38						
	0 VA	--	Space	12	--	39	40	60 A	6	SPD	--	0 VA	1
	0 VA	--	Space	12	--	41	42						

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.47	(R)Receptacle				210.20A	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.	3000 VA	100.00%	3000 VA
220.60	(F)Fans				220.50	(MT)Lrg. Motor			
	(M)Misc.					(SP)Sub Pnl.			
					630.11B	(W) Welders			

Total Connected Load: 93806 VA VA = 113 A
Total Load (Diversified): 93806 VA VA = 113 A
Location of Panel:

Panelboard LC

10000 A AIC Rating
New
X Existing

120/208 Wye Volt, 3 Phase, 4 Wire · 1 Section · Type 1 -Nema Rating | Mains Type: MCB | 100 A MCB -- · 225 A BUS (Copper) · -- | LUGS: -- · -- | Mounting Stye: SURFACE

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
1	4992 VA	--	EXIST LOAD	8	40 A	1	2	20 A	12	EXISTING LOAD	--	500 VA	1
						3	4	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	5	6	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	7	8	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	9	10	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	11	12	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	13	14	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	15	16	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	17	18	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	19	20	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	21	22	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	23	24	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	25	26	20 A	12	EXISTING LOAD RECEP.	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	27	28	20 A	12	EXISTING LOAD RECEP.	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	29	30	20 A	12	EXISTING LOAD RECEP.	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	31	32	20 A	12	EXISTING LOAD RECEP.	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	33	34	20 A	12	EXISTING LOAD RECEP.	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	35	36	20 A	12	EXISTING LOAD RECEP.	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	37	38	20 A	12	EXISTING LOAD RECEP.	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	39	40	20 A	12	EXIST LOAD. WH - LOUNGE	--	720 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	41	42	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	43	44						
1	500 VA	--	EXISTING LOAD	12	20 A	45	46	60 A	6	SPD	--	0 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	47	48						
1	500 VA	--	EXISTING LOAD	12	20 A	49	50	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	51	52	20 A	12	EXISTING LOAD	--	500 VA	1
3	85 VA	WH	CP-1	12	20 A	53	54	20 A	12	EXISTING LOAD	--	500 VA	1
	0 VA	--	Space	12	--	55	56	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	57	58	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	59	60	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	61	62	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	63	64	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	65	66	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	67	68	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	69	70	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	71	72	--	12	Space	--	0 VA	

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.47	(R)Receptacle				210.20A	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.	85 VA	100.00%	85 VA
220.60	(F)Fans				220.50	(MT)Lrg. Motor			
	(M)Misc.					(SP)Sub Pnl.			
					630.11B	(W) Welders			

Total Connected Load: 29297 VA VA = 81 A
Total Load (Diversified): 29297 VA VA = 81 A
Location of Panel:

Panelboard LN-N

10000 A AIC Rating
New
X Existing

120/208 Wye Volt, 3 Phase, 4 Wire · 1 Section · Type 1 -Nema Rating | Mains Type: MCB | 225 A MCB -- · 225 A BUS (Copper) · -- | LUGS: -- · -- | Mounting Stye: SURFACE

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
	0 VA	--	Space	12	--	1	2						
	0 VA	--	Space	12	--	3	4	100 A	3	PANEL MAIN CIRCUIT BREAKER	--	0 VA	
	0 VA	--	Space	12	--	5	6						
1	500 VA	--	EXISTING LOAD	12	20 A	7	8	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	9	10	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	11	12	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	13	14	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	15	16	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	17	18	20 A	12	EXISTING LOAD	--	500 VA	1
3	960 VA	R	DRINKING FOUNTAINS	12	20 A	19	20	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	21	22	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	23	24	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	25	26	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	27	28	30 A	10	EXISTING LOAD	--	1000 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	29	30						
1	1000 VA	--	EXISTING LOAD	8	40 A	31	32	20 A	12	EXISTING LOAD	--	500 VA	1
						33	34	20 A	12	EXISTING LOAD	--	500 VA	1
1	0 VA	--	EXISTING LOAD	12	20 A	35	36	20 A	12	EXISTING LOAD	--	500 VA	1
						37	38	20 A	12	EXISTING LOAD	--	500 VA	1
1	1500 VA	--	EXISTING LOAD	12	20 A	39	40	20 A	12	EXISTING LOAD	--	500 VA	1
						41	42	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	43	44	20 A	12	EXISTING LOAD	--	500 VA	1
	0 VA	--	Space	12	--	45	46	--	12	Space	--	0 VA	
1	500 VA	--	EXISTING LOAD	12	20 A	47	48	20 A	12	EXISTING LOAD	--	500 VA	1

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.47	(R)Receptacle	960 VA	100.00%	960 VA	210.20A	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.			
220.60	(F)Fans				220.50	(MT)Lrg. Motor			
	(M)Misc.					(SP)Sub Pnl.			
					630.11B	(W) Welders			

Total Connected Load: 19960 VA VA = 55 A
Total Load (Diversified): 19960 VA VA = 55 A
Location of Panel:

Panelboard LN-S

10000 A AIC Rating
New
X Existing

120/208 Wye Volt, 3 Phase, 4 Wire · 1 Section · Type 1 -Nema Rating | Mains Type: MCB | 225 A MCB -- · 225 A BUS (Copper) · -- | LUGS: -- · -- | Mounting Stye: SURFACE

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
1	500 VA	--	EXISTING LOAD	12	20 A	1	2	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	3	4	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	5	6	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	7	8	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	9	10	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	11	12	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	13	14	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	15	16	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	17	18	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	19	20	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	21	22	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	23	24	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	25	26	20 A	12	EXISTING LOAD	--	500 VA	1
1	1000 VA	--	EXISTING LOAD	12	20 A	27	28	20 A	12	EXISTING LOAD	--	500 VA	1
						29	30	--	12	Space	--	0 VA	
						31	32						
1	1500 VA	--	STORAGE WATER HEATER(E)	10	30 A	33	34	20 A	12	EXISTING LOAD	--	1500 VA	1
						35	36						
	0 VA	--	Space	12	--	37	38	--	12	Space	--	0 VA	
3	480 VA	R	DRINKING FOUNTAIN	12	20 A	39	40	--	12	Space	--	0 VA	
	0 VA	--	Space	12	--	41	42	--	12	Space	--	0 VA	

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.47	(R)Receptacle	480 VA	100.00%	480 VA	210.20A	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.			
220.60	(F)Fans				220.50	(MT)Lrg. Motor			
	(M)Misc.					(SP)Sub Pnl.			
					630.11B	(W) Welders			

Total Connected Load: 17980 VA VA = 50 A
Total Load (Diversified): 17980 VA VA = 50 A
Location of Panel:

GENERAL ELECTRICAL NOTE:

A. ALL CIRCUITS ON EXISTING PANELS ARE EXISTING CIRCUIT/BREAKERS TO REMAIN UNLESS NOTED OTHERWISE BY KEYED NOTE.

B. ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE SCHEDULED..

C. CONTRACTOR SHALL REFER TO PROJECT SPECIFICATIONS FOR SPARE CONDUITS TO BE PROVIDED PER PANEL
.

D. ALL PANEL SCHEDULES SHALL BE UPDATED WITH NEW DIRECTORIES. ANY EXISTING CIRCUITS TO REMAIN SHALL BE CIRCUIT TRACED AND LABELING UPDATED ACCORDINGLY WITH ROOM NAMES, NUMBERS, DEVICE/EQUIPMENT TYPE. ROOM NAMING AND NUMBERING SHALL BE BASED ON THE FINAL ROOMNAMING AND NUMBERING IDENTIFIED BY THE ARCHITECT AND OWNER. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION AND ADDITIONAL DIRECTORY REQUIREMENTS.

PANEL SCHEUDULE KEYED NOTES:

1. EXISTING BRANCH CIRCUIT TO REMAIN. CONTRACTOR SHALL CIRCUIT TRACE AND FIELD VERIFY THE EXISTING LOAD CIRCUIT. UPDATE THE PANEL DIRECTORY WITH THE DEVICE/EQUIPMENT TYPE, ROOM NUMBER, ROOM NAME, ETC. REFERENCE SPECIFICATIONS AND GENERAL NOTES FOR ADDITIONAL INFORMATION. ANY EXISTING CIRCUITS DETERMINED TO BE SPARES, SHALL BE FLIPPED TO THE OFF POSITION AND PANEL DIRECTORY UPDATED ACCORDINGLY. CONTRACTOR SHALL FIELD VERIFY.
2. EXISTING BREAKER IN THE PANEL SHALL REMAIN AS SPARE, FLIPPED TO THE OFF POSITION AND LABELED ON THE NEW PANEL DIRECTORY AS A SPARE BREAKER. CONTRACTOR SHAL FIELD VERIFY.
3. REUSE EXISTING PANEL SPACE FOR NEW CIRCUITING AND NEW BREAKER. CONTRACTOR SHALL FIELD VERIFY EXISTING CIRCUITING/EQUIPMENT THAT IS EXISTING TO REMAIN PRIOR TO UTILIZING PANEL SPACE. EQUIPMENT/CIRCUITS DETERMINED TO BE EXISTING TO REMAIN DURING FIELD VERIFICATION SHALL REMAIN IN PLACE AS REQUIRED.
4. REUSE EXISTING BREAKER FOR NEW ELECTRICL CIRCUIT. CONTRACTOR SHALL FIELD VERIFY.

Panelboard LB

10000 A AIC Rating
New
X Existing

120/208 Wye Volt, 3 Phase, 4 Wire · 1 Section · Type 1 -Nema Rating | Mains Type: MCB | 225 A MCB -- · 225 A BUS (Copper) · -- | LUGS: -- · -- | Mounting Stye: SURFACE

NOTE	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CB	CKT	CKT	CB	WIRE	DESCRIPTION	TYPE	LOAD (VA)	NOTE
1	500 VA	--	EXISTING LOAD	12	20 A	1	2	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	3	4	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	5	6	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	7	8	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	9	10	20 A	12	EXISTING LOAD	--	540 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	11	12	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	13	14	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	15	16	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	17	18	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	19	20	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	21	22	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	23	24	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	25	26	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	27	28	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	29	30	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	31	32	20 A	12	EXISTING LOAD	--	500 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	33	34	20 A	12	EXISTING LOAD	--	500 VA	1
	0 VA	--	Space	12	--	35	36	20 A	12	EXISTING LOAD	--	500 VA	1
	0 VA	--	Space	12	--	37	38						
1	500 VA	--	EXISTING LOAD	12	20 A	39	40	60 A	6	(E)LB1	Spare	0 VA	1
1	500 VA	--	EXISTING LOAD	12	20 A	41	42						

NEC REF:	Load Type	Conn.	Fct.	Diversity	NEC REF:	Load Type	Conn.	Fct.	Diversity
220.47	(R)Receptacle				210.20A	(L)Lighting			
220.56	(K)Kitchen					(EL)Ext. Ltg.			
220.60	(C)Cooling			0 VA	620.14	(E)Elevators			
220.60	(H)Heating			0 VA		(WH)Wat. Htr.			
220.60	(F)Fans				220.50	(MT)Lrg. Motor			
	(M)Misc.					(SP)Sub Pnl.			
					630.11B	(W) Welders			

Total Connected Load: 18540 VA VA = 51 A
Total Load (Diversified): 18540 VA VA = 51 A
Location of Panel:

Load Analysis - Smith ES

480 / 277 , 3 -PHASE, 4 -WIRE — Date: 5/6/2025

DESCRIPTION				NEC	KVA
EXISTING LOAD:					
PEAK KVA FROM CPE =	558,000 VA X	125%		220.87	697.5
REMOVED LOAD:					
LIGHTING:					
INTERIOR =	3,240 VA			220.12	-3.2
ADDED LOAD:					
LIGHTING:					
INTERIOR =	1,620 VA X	125%	= 0.01 W/SF	220.12	2.0
PLUMBING:					
EWH'S =	5,000 VA X	100%			5.0
CIRCULATION PUMPS =	170 VA				0.2
DRINKING FOUNTAINS=	2,880 VA				2.9
				TOTAL =	704.3
				TOTAL AMPS:	847.2
SQ. FOOTAGE = 121,365				SERVICE SIZE:	2000.0
				SPARE AMPACITY:	1152.8

DLRGROUP
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STATE OF TEXAS
BRENT B. MOE
117260
LICENSED
PROFESSIONAL ENGINEER
4-6-26

SMITH ELEMENTARY
SHARKS
EST. 1972

DBR
713.914.0888 p
https://www.dbrinc.com
TBPE Firm Registration No. 2234
DBR Project # 250076.000
BM | RM/TD | LB/MS | TN/JL | -

SMITH E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

11300 STANCLIFF RD
HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
10-31-25
REVISIONS
2 02-11-26 ISSUE FOR BID & PERMIT
3 04-06-26 OWNER VE

39-25156-00

ELECTRICAL PANEL SCHEDULES

E5.02

Autodesk Docs://39-25156-00 Alief ISD restrm reno/250076_SMITH EL RESTROOM RENO_MEP24.rvt
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(NOT ALL ITEMS INDICATED APPLY TO THIS PROJECT)

ABBREVIATIONS

A

A	AIR (COMPRESSED)
AC	AIR COMPRESSOR
AD	AIR DRYER
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AUX	AUXILIARY
AV	ACID VENT
AVV	AIR ADMITTANCE VALVE
AW	ACID WASTE

B

B	BOILER
BF	BOTTLE FILLER
BFF	BELOW FINISH FLOOR
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STRUCTURE
BT	BATH TUB
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACK WATER VALVE

C

C	CELSIUS
CAB	CABINET
CB	CATCH BASIN
CD	CONDENSATE DRAIN LINE
CI	CAST IRON
CIRC	CIRCULATING
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CMU	CONCRETE MASONRY UNIT
CL	CENTERLINE
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE, CONCENTRIC
CONN	CONNECTION
CP	CIRCULATING PUMP, CHROME PLATE
CPI	CAST IRON PIPE INSTITUTE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CTE	CONNECT TO EXISTING
CW	COLD WATER

D

DBP	DOMESTIC BOOSTER PUMP
DC	DOWNSPOUT COVER
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN, DOWNSPOUT NOZZLE
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING

E

ECC	ECCENTRIC
EDF	ELECTRIC DRINKING FOUNTAIN
EL OR ELVA	ELEVATION
ES	EMERGENCY SHOWER
ESP	ELEVATOR SUMP PUMP
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EW	EYE WASH
EWH	ELECTRIC WATER HEATER

F

F	FARENHEIT, FIRE
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FCV	FLOOR CONTROL VALVE
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FEC	FIRE EXSTINGUISHER CABINET
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FIXT	FIXTURE
FL	FLOW LINES
FLEX	FLEXIBLE
FLR	FLOOR
FP	FIRE PUMP
FS	FLOW SWITCH, FIRE SPRINKLER
	FLOOR SINK
FT	FOOT, FEET
FW	FORCE WASTE, FILTER WATER

G

G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GD	GARBAGE DISPOSAL
GI	GREASE INTERCEPTOR
GL	GLOBE VALVE
GPD	GALLONS PER DAY
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GT	GREASE TRAP
GV	GATE VALVE, GREASE VENT
GW	GREASE WASTE
GWH	GAS WATER HEATER

H

HB	HOSE BIBB
HC	HANDICAPPED
HD	HEAD, HUB DRAIN
HKP	HOUSEKEEPING PAD
HP	HORSEPOWER
HR	HOSE REEL
HSC	HORIZONTAL SPLIT CASE
HT	HEIGHT
HTR	HEATER
HW	HOT WATER
HWR	HOT WATER RETURN
HZ	HERTZ

I

ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INSUL	INSULATION
IW	INDIRECT WASTE
IWH	INSTANTANEUOS WATER HEATER

J

JP	JOCKEY PUMP

K

KEC	KITCHEN EQUIPTMENT CONTRACTOR
KVA	KILOVOLT- AMPS
KW	KILOWATT

L

L	LENGTH, LAVATORY
LAV	LAVATORY
LF	LINEAR FEET
LP	LOW PRESSURE
LPG	LIQUEFIED PETROLEUM GAS
LT	LINT, LINT TRAP
LVL	LEVEL

M

MAX	MAXIMUM
MBTUH	THOUSAND OF BTU'S
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MS	MOP SINK
MSB	MOP SERVICE BASIN
MTD	MOUNTED
MUW	MAKE-UP WATER

N

N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE

O

O	MEDICAL OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OS&Y	OPEN STEM AND YOLK

P

PC	PLUMBING CONTRACTOR
PH	PHASE
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PNL	PANEL
POU	POINT-OF-USE
PP	POLYPROPYLENE
PPM	PART PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
PVDF	POLYVINYL IDENE FLUORIDE

Q

QTY	QUANTITY

R

RCP	REFLECTED CEILING PLAN, REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE	REFERENCE,REFER
RECIRC	RECIRCULATE
REFR	REFRIGERATOR
RH	ROOF HYDRANT
RM	ROOM
RO	REVERSE OSMOSIS
RPBF	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
RV	RELIEF VALVE

S

SA	SHOOK ABSORBER
SC	SCHEDULE
SD	STORM DRAIN, SANITARY DRAIN
SEC	SECONDARY
SECT	SECTION
SF	SQUARE FEET
SH	SHOWER
SHI	SOLID HAIR INTERCEPTOR
SI	SOLIDS INTERCEPTOR
SIM	SIMILAR
SK	SINK
SOS	SAND OIL SEPERATOR
SOV	SHUT-OFF VALVE
SP	SUMP PUMP, STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SS	SERVICE SINK, SOIL STACK, STAINLESS STEEL
SSD	SUBSURFACE DRAIN
STD	STANDARD
STL	STEEL
STR	STRAINER
SV	SANITARY VENT
SW	SOFT WATER

T

TCO	TRAFFIC CLEANOUT
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TDL	TOTAL DEVELOPED LENGTH
TLT	TOILET
TMV	THERMOSTATIC MIXING VALVE
TOB	TOP OF BEAM
TOF	TOP OF FOOTER
TP	TRAP PRIMER
TPD	TRAP PRIMER DEVICE
TS	TAMPER SWITCH
TYP	TYPICAL

U

U	URINAL
UF	UNDERFLOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
US	UNDERSLAB

V

V	VOLT, VENT
VAC	VACUUM(MEDICAL)
VB	VALVE BOX, VACUUM BREAKER
VFD	VARIABLE FREQUENCY DRIVE
VP	VACUUM PUMP
VS	VENT STACK
VTR	VENT THRU ROOF

W

W	WATT, WASTE, WIDTH, WASHER
W/	WITH
W/O	WITHOUT
WADG	WASTE ANESTHETIC GAS DISPOSAL
WB	WALL BOX
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WM	WATER METER
WMB	WASHER MACHINE BOX
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WS	WATER SOFTENER, WASTE STACK
WSFU	WATER SUPPLY FIXTURE UNIT
WT	WATERTIGHT, WEIGHT

Y

YCO	YARD CLEANOUT
YH	YARD HYDRANT

Z

Z	ZONE

SYMBOLS

PLUMBING SYSTEMS

- SANITARY DRAIN BELOW FLOOR
- S(E) — EXISTING SOIL OR WASTE PIPING B.G. - S(E)
- SANITARY DRAIN ABOVE FLOOR
- S(E) — EXISTING SOIL OR WASTE PIPING A.G. - S(E)
- PIPE DEMO
- SANITARY VENT
- EXISTING VENT PIPING
- GW — GREASE WASTE(ABOVE CEILING)
- GW — GREASE WASTE(BELOW FLOOR)
- SD — STORM DRAIN(ABOVE CEILING)
- SD — STORM DRAIN(BELOW FLOOR)
- OD — OVERFLOW DRAIN(ABOVE CEILING)
- OD — OVERFLOW DRAIN(BELOW FLOOR)
- AW — ACID WASTE(ABOVE CEILING)
- AW(E) — EXISTING ACID WASTE PIPING A.G. - AW(E)
- AW — ACID WASTE(BELOW FLOOR)
- AW(E) — EXISTING ACID WASTE PIPING B.G. - AW(E)
- AV — ACID VENT(ABOVE CEILING OR BELOW FLOOR)
- AV(E) — EXISTING ACID VENT PIPING - AV(E)
- NP-CW — NON-POTABLE - COLD WATER
- COLD WATER - CW
- CW(E) — EXISTING DOMESTIC COLD WATER - CW(E)
- HOT WATER - HW
- HW(E) — EXISTING DOMESTIC HOT WATER - HW(E)
- HOT WATER RECIRCULATION
- HWR(E) — EXISTING DOMESTIC HOT WATER RETURN - HWR(E)
- G (4oz) — NATURAL GAS (LOW PRESSURE)
- G (2 PSI) — NATURAL GAS (MEDIUM PRESSURE)
- G (5 PSI) — NATURAL GAS (HIGH PRESSURE)
- T — TEMPERED WATER
- A — COMPRESSED AIR
- MA — MEDICAL AIR
- O — MEDICAL OXYGEN
- MV — MEDICAL VACUUM
- F — FIRE STANDPIPE, FIRE LINE
- FS — WET AUTOMATIC FIRE SPRINKLER
- FW — FORCE WASTE
- TP — TRAP PRIMER
- D — DRAIN LINE
- SW — SOFT WATER
- LT — LINT WASTE
- LP — LIQUIFIED PETROLEUM GAS
- N — NITROGEN
- N2O — NITROUS OXIDE
- IA — INSTRUMENT AIR
- WAGD — WASTE ANESTHETIC GAS DISPOSAL

PIPING FITTINGS

- CAP ON END OF PIPE
- ELBOW UP
- ELBOW DOWN
- VALVE IN DROP
- VALVE IN RISE
- DIRECTION OF FLOW
- DIRECTION OF SLOPE DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- TEE OUTLET UP
- TEE OUTLET DOWN
- UNION
- FLANGE
- STRAINER WITH BLOWDOWN VALVE
- GATE VALVE, HVAC BALANCING/STOP VALVE
- GLOBE VALVE
- BALL VALVE
- BALANCING VALVE WITH DIFFERENTIAL PRESSURE TAPS
- OS&Y VALVE
- CHECK VALVE
- BUTTERFLY VALVE
- TWO-WAY MODULATING CONTROL VALVE
- THREE-WAY MODULATING CONTROL VALVE
- SOLENOID VALVE
- PRESSURE REDUCING VALVE
- GAS REGULATOR
- GAS COCK
- SPRINKLER FLOOR CONTROL STATION
- MANUAL AIR VENT
- AUTOMATIC AIR VENT
- T&P RELIEF VALVE
- LINE CLEANOUT/ WALL CLEANOUT
- FLOOR CLEANOUT
- GRADE CLEANOUT
- PRESSURE GAUGE WITH GAUGE COCK
- THERMOMETER
- FLOW VENTURI
- VACUUM BREAKER
- VACUUM RELIEF VALVE
- BACKFLOW PREVENTOR
- CIRCULATING PUMP
- WATER SUB-METER
- LOCAL ALARM
- MASTER ALARM
- AREA ALARM

MISCELLANEOUS

- DRAIN(TYPE AND SIZE AS NOTED ON PLANS)
- ROOF DRAIN OR OVERFLOW DRAIN
- ROOF DRAIN OR OVERFLOW DRAIN(FROM ABOVE)
- HOSE BIBB
- WALL HYDRANT
- PLUMBING FIXTURES
- EXISTING PLUMBING FIXTURES
- POINT OF NEW CONNECTION TO EXISTING PIPING
- P.X.X — PLUMBING DRAWING NOTE REFERENCE
- 2 / P2.1 — DETAIL NUMBER OR PLAN / SHEET WHERE DETAIL OR PLAN IS SHOWN
- FS — FLOW SWITCH
- TS — TAMPER SWITCH
- ACCESS PANEL (AP)
- FIRE DEPARTMENT SIAMESE CONNECTION(WALL MOUNTED)
- FIRE DEPARTMENT SIAMESE CONNECTION(FREE STANDING)
- 2 / P7.1 — PLUMBING RISER DIAGRAM NUMBER / SHEET WHERE PLUMBING RISER DIAGRAM IS SHOWN

PLUMBING CODES

2021 UUNIFORM PLUMBING CODE
2021 EXISTING BUILDING CODE

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STATE OF TEXAS — ANTHONY B. JASPAL — 95728 — LICENSED PROFESSIONAL ENGINEER — 11/4/25

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SMITH E.S. - RESTROOM RENOVATIONS

ALIEF INDEPENDENT SCHOOL DISTRICT

11300 STANCLIFF RD
HOUSTON, TX 77099

ISSUE FOR BID & PERMIT
10-31-25

REVISIONS

2	02 11-26	ISSUE FOR BID & PERMIT
3	04-06-26	OWNER VE

39-25156-00

PLUMBING SYMBOL LEGEND

P0.01

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DEMOLITION NOTES:

1. FIELD VERIFY AS NECESSARY THE EXACT LOCATIONS/ROUTING/SIZES OF PLUMBING FIXTURES, PIPING, AND EQUIPMENT TO BE REMOVED OR RE-USED. REFER TO ARCHITECTURAL DRAWINGS FOR CLARIFICATION AS REQUIRED.
2. ALL PLUMBING FIXTURES/EQUIPMENT NOT SPECIFICALLY IDENTIFIED FOR REMOVAL SHALL REMAIN. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES/CONFLICTS FOUND IN THE FIELD.
3. UNLESS NOTED OTHERWISE, WHERE FIXTURES ARE TO BE REMOVED: REMOVE FIXTURE, CARRIER, FAUCET/FLUSH VALVE, SUPPLIES/STOPS, TUBULAR BRASS, AND ASSOCIATED PIPING AS DESCRIBED.
4. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS, WHERE EACH NEW WALL HUNG FIXTURE WILL BE PROVIDED AND WHERE EACH EXISTING WALL HUNG FIXTURE WILL BE RE-INSTALLED, A NEW CORRESPONDING FIXTURE CARRIER SHALL ALSO BE PROVIDED. THIS REQUIREMENT SHALL APPLY TO ONE-FOR-ONE FIXTURE REPLACEMENTS AND ALL ADJUSTMENTS TO WALL HUNG FIXTURE LOCATIONS AND FIXTURE HEIGHTS. ALL WORK ASSOCIATED WITH PROVIDING SUCH CARRIERS SHALL BE INCLUDED IN THE PROJECT SCOPE WITH NO EXCEPTIONS.
5. ALL PLUMBING FIXTURES AND/OR EQUIPMENT REMOVED SHALL BE SUBMITTED TO THE OWNER WITH THE OPTION TO BE REUSED, WHICH SHALL BE SOLELY AT THE DISCRETION OF THE OWNER. ITEMS THE OWNER DOES NOT WISH TO REUSE BUT WISHES TO RETAIN SHALL BE DELIVERED TO STORAGE AS DIRECTED. ITEMS THE OWNER DOES NOT WISH TO REUSE OR RETAIN SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF LEGALLY.
6. REMOVE ALL PIPING FROM ABOVE FLOOR TO BELOW ROOF/FLOOR ABOVE WHICH WAS PREVIOUSLY ABANDONED OR WHICH SERVES PLUMBING FIXTURES DESIGNATED FOR REMOVAL, UNLESS NEW FIXTURES ARE TO BE INSTALLED IN THOSE LOCATIONS - REFER TO PLUMBING FLOOR PLANS. PRIOR TO ANY REMOVAL, FIELD VERIFY THAT LINES TO BE REMOVED DO NOT SERVE ANY FIXTURES TO REMAIN. CAP REMOVED BRANCH LINES AS CLOSE AS POSSIBLE TO EXISTING MAINS TO REMAIN.
7. WHERE SLAB ON GRADE FLOOR DRAINS OR SIMILAR INSTALLATIONS ARE TO BE REMOVED, THE STRAINER AND DRAIN BODY SHALL BE REMOVED. PLUG THE WASTE PIPE WATERTIGHT BELOW FINISHED FLOOR. PATCH AND REFINISH THE FLOOR TO MATCH EXISTING.
8. AT PLUMBING WASTE/VENT PIPE PENETRATIONS THROUGH SLAB ON GRADE NO LONGER REQUIRED, PLUG THE PIPES WATERTIGHT BELOW FINISHED FLOOR. PATCH AND REFINISH THE FLOOR TO MATCH EXISTING.
9. WHERE BURIED WASTE/VENT BRANCH LINES ARE PLUGGED AND ABANDONED IN PLACE, THE ABANDONED LINES SHALL REMAIN OTHERWISE SERVICEABLE AND THE REMAINING PIPING SYSTEM SHALL REMAIN INTACT AND FUNCTIONAL.
10. WHERE FIXTURES ARE REMOVED, NO NEW FIXTURES ARE TO BE INSTALLED, AND EXISTING VENTS THROUGH ROOF ARE NO LONGER REQUIRED, VENT TERMINALS ARE TO BE COMPLETELY REMOVED UNLESS NOTED OTHERWISE. THE ROOF SHALL BE REPAIRED AND SEALED WATERTIGHT TO MATCH THE EXISTING ROOF SYSTEM.
11. IN THE COURSE OF DEMOLITION, ANY PIPING TO REMAIN THAT IS EXPOSED AND FOUND TO BE UNLABELED SHALL BE IDENTIFIED AND LABELED ACCORDINGLY. PROVIDE PIPE MARKERS TO INDICATE TYPE OF SERVICE AND DIRECTION OF FLOW.
12. IN THE COURSE OF DEMOLITION, THE CONTRACTOR SHALL ASSIST THE OWNER BY BRINGING TO THE DESIGN TEAM'S ATTENTION ANY EXISTING PLUMBING RELATED ITEMS INTENDED TO REMAIN BUT WHICH ARE FOUND TO BE UNFIT FOR SERVICE OR IN NEED OF REPAIR. THIS SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, THE FOLLOWING: LEAKING OR DETERIORATED PIPING AND VALVES; IMPROPERLY SLOPED/SUPPORTED OR SAGGING PIPE; MISSING, DAMAGED, OR DETERIORATED INSULATION; CODE REQUIRED BUT MISSING BACKFLOW PREVENTION MEASURES; FIXTURES, FLUSH VALVES, FAUCETS, EQUIPMENT, AND APPURTENANCES NOT FUNCTIONING AS INTENDED.
13. IN THE COURSE OF DEMOLITION, THE CONTRACTOR SHALL ASSIST THE OWNER BY BRINGING TO THE DESIGN TEAM'S ATTENTION ANY EXISTING NON-PLENUM RATED PIPING (PVC, ETC.) INTENDED TO REMAIN WHICH IS FOUND IN A RETURN AIR PLENUM SPACE. UNLESS DEEMED UNACCEPTABLE BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) OR OWNER, ALL SUCH PIPING SHALL BE WRAPPED WITH FIRE RESISTANT INSULATION. 3M FIRE BARRIER PLENUM WRAP SA OR PRE-APPROVED EQUAL THAT HAS BEEN TESTING IN ACCORDANCE WITH ASTM E84 AND UL 910. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDED METHODS.

FIXTURES NOTES

1. DO NOT ROUGH-IN UNDERGROUND PIPING OR ANY OTHER CONNECTIONS FOR FIXTURES FROM THE PLUMBING DRAWINGS. REFER TO LATEST ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DIMENSIONED LOCATIONS. COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH THE LATEST ARCHITECTURAL DRAWINGS, SPECIFICATIONS, AND MANUFACTURER RECOMMENDATIONS PRIOR TO ANY ROUGH-INS.
2. CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS AND DIMENSIONS OF FINISHED FLOORS AND WALLS. TRUE ALL DRAINS, ROUGH-INS AND CARRIERS IN ACCORDANCE WITH THE PROPOSED ELEVATIONS AND FINISHED SURFACES.
3. THE MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG AND COUNTER MOUNTED FIXTURES SHALL BE COORDINATED WITH THE LATEST ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-IN WORK.
4. PROVIDE LABOR AND MATERIALS AS REQUIRED TO MAKE FINAL CONNECTIONS TO ALL PLUMBING FIXTURES, EQUIPMENT, AND RELATED ITEMS FURNISHED UNDER SEPARATE DIVISIONS. INSTALL ASSOCIATED TRIM AND COMPONENT ACCESSORIES FURNISHED UNDER SEPARATE DIVISIONS.
5. CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF ACTUAL EQUIPMENT TO BE SUPPLIED FOR THE FINAL COORDINATION OF ALL ROUGH-INS BEFORE BEGINNING WORK.
6. ALL FIXTURE AND EQUIPMENT STUB-OUTS SHALL BE PROVIDED WITH A STOP VALVE. UNLESS SPECIFIED OTHERWISE, ALL FIXTURE STOPS SHALL BE SOLID BRASS, LOOSE KEY OPERATED, CHROME PLATED, AND FITTED TIGHT TO CHROME PLATED BRASS WALL ESCUTCHEON PLATES COMPLETE WITH SUPPLY RISERS OF TYPE 'L' TUBING, CHROME PLATED. MCGUIRE MANUFACTURING OR PRE-APPROVED EQUAL.
7. ALL EXPOSED FIXTURE P-TRAPS WITHIN THE BUILDING AND ABOVE FLOOR SHALL BE CHROME PLATED ADJUSTABLE, HEAVY CAST BRASS WITH CLEANOUT PLUG, SLIP NUTS, AND 17 GAUGE SEAMLESS TUBULAR BRASS DRAIN TO WALL WITH WALL FLANGE. MCGUIRE MANUFACTURING OR PRE-APPROVED EQUAL.
8. EACH FIXTURE TRAP SHALL HAVE A LIQUID SEAL OF NOT LESS THAN 2 INCHES AND NOT MORE THAN 4 INCHES, EXCEPT WHERE A DEEPER SEAL IS FOUND NECESSARY BY THE AUTHORITY HAVING JURISDICTION.
9. ALL ROUGH IN OPENINGS SHALL BE FITTED WITH CHROME PLATED SOLID RING TYPE ESCUTCHEON PLATES FITTED TIGHT TO THE PIPE AND FLUSH TO THE WALL.
10. ALL EXPOSED TAILPIECES, P-TRAPS, TRAP ARMS, ASSOCIATED HARDWARE AND ESCUTCHEONS SHALL BE CHROME PLATED.
11. ALL FIXTURES INDICATED AS OR REQUIRED TO BE HANDICAPPED ACCESSIBLE ("ADA" OR "TAS") SHALL BE PROVIDED IN APPROVED TYPES, WITH REQUIRED CONTROLS AND PROVIDED WITH THE REQUIRED HEIGHTS AND CLEARANCES. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONED MOUNTING HEIGHTS AND SPECIFIED CLEARANCE REQUIREMENTS.
12. ALL EXPOSED LAVATORY AND SINK PIPING FOR ACCESSIBLE FIXTURES SHALL BE INSULATED WITH APPROVED, MANUFACTURED MOLDED VINYL COVERS BY TRUEBRO OR APPROVED EQUAL. PROVIDE OFFSET DRAIN FITTINGS WHERE REQUIRED TO ENSURE REQUIRED MINIMUM CLEARANCES.
13. ALL ACCESSIBLE SINKS SHALL BE PROVIDED WITH DRAIN OUTLETS LOCATED ACCORDINGLY TOWARD THE REAR OF BASIN.
14. ENSURE TO ORIENT ALL ACCESSIBLE WATER CLOSET FLUSH OPERATORS ON THE "WIDE" SIDE OF THE FIXTURE ENCLOSURE.
15. SEAL ALL SPACES BETWEEN PLUMBING FIXTURES AND MOUNTING SURFACES WITH WHITE SILICONE CAULK WIPED SMOOTH AND FLUSH WITH FIXTURE.
16. FLOOR DRAINS SHALL BE INSTALLED AT LOW POINTS OF SLOPED FLOORS. CONTRACTOR SHALL FIELD COORDINATE WITH STRUCTURAL TO WITH INTENDED ARCHITECTURAL FLOOR FINISHES TO ENSURE THAT DRAINS ARE LOCATED ACCORDINGLY.
17. PROVIDE A COMPATIBLE WATER FILTER AT EACH ICE MAKING MACHINE.
18. ALL SINKS AND URINALS SHALL BE PROVIDED WITH WALL CLEANOUTS.
19. SHOCK ARRESTORS SHALL CONFORM WITH THE REQUIREMENTS OF ASSE 1010 AND SHALL BE SIZED AND LOCATED PER THE PLUMBING AND DRAINAGE INSTITUTE STANDARD WH-201. PROVIDE ACCESS PANELS SIZED ACCORDINGLY TO ENSURE MAINTENANCE AND REPLACEMENT ACCESS TO ALL SHOCK ARRESTORS. FINAL LOCATIONS AND SIZES OF REQUIRED ACCESS PANELS SHALL BE REVIEWED FOR APPROVAL BY THE ARCHITECT PRIOR TO INSTALLATION.

GENERAL PLUMBING NOTES: (RENOVATIONS)

1. FIELD VERIFY AS NECESSARY THE EXACT LOCATION, SIZE, DEPTH BELOW FLOOR/HEIGHT ABOVE CEILING, ROUTING, DIRECTION OF FLOW, CAPACITY, PIPE MATERIAL, AND CONDITION OF EXISTING PIPING. MAKE ADJUSTMENTS AS REQUIRED.
2. COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND TO MINIMIZE INTERRUPTION OF SERVICES.
3. THE PROPER INSTALLATION OF NEW FIXTURES AND THE PROPER CONTINUED OPERATION OF EXISTING BUILDING FIXTURES TO REMAIN SHALL GOVERN THE EXTENT AND NATURE OF WORK.
4. THE CONTRACTOR SHALL MAKE ARRANGEMENTS IN ADVANCE WITH THE OWNER PRIOR TO ANY NECESSARY SHUT DOWN OF THE DOMESTIC WATER OR ANY OTHER SERVICE. ANY SUCH SHUT DOWN SHALL BE AT A TIME AND FOR A DURATION SATISFACTORY TO THE OWNER, WHO SHALL MAKE THE FINAL DETERMINATION AS TO ITS ACCEPTABILITY.
5. SITE INSPECTION: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMITTING A BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND EXACT NATURE OF WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN THE CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDS FOR ANY OMISSION WHICH RESULTS FROM FAILURE TO MAKE SUCH A THOROUGH EXAMINATION. NOTE THAT FOR GRAPHICAL CLARITY, ALL EXISTING PIPING TO REMAIN OR BE ABANDONED IN PLACE MAY NOT BE SHOWN ON THE FLOOR PLANS.

GENERAL WORK NOTES

1. ALL WORK, METHODS, AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE PREVAILING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
2. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS, ELEVATIONS, DIRECTION OF FLOW, PIPE SIZES & CAPACITIES, AND PIPE MATERIAL & CONDITION AT PROPOSED POINTS OF CONNECTION WITH EXISTING BUILDING PLUMBING LINES AND SITE CIVIL LINES PRIOR TO INSTALLATION OF ANY NEW WORK. MODIFY/REPLACE EXISTING PIPING IF AND AS REQUIRED TO ENSURE PROPER CONNECTIONS. ONLY CONNECT NEW LINES TO SUITABLE EXISTING LINES OF EQUAL OR GREATER SIZE.
3. COORDINATE ROUTING OF BURIED PIPING WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND UTILITIES, AND ALL OTHER SUB-SURFACE BUILDING ELEMENTS. MAKE ADJUSTMENTS AS REQUIRED AND ADVISE ARCHITECT/ENGINEER OF ANY GRADING CONFLICTS PRIOR TO COMMENCING INSTALLATION.
4. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL CONDITIONS AND PROVIDE PROPER PIPING INSTALLATIONS AS REQUIRED WITHOUT DAMAGE TO STRUCTURE. WHERE STRUCTURAL MODIFICATIONS WILL BE REQUIRED, THE CONTRACTOR SHALL FIRST RECEIVE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER AND PROVIDE ALL SUCH WORK ACCORDINGLY.
5. COORDINATE IN FIELD TO ENSURE NO LESS THAN 6 INCHES OF EARTHEN COVER FROM TOPS OF DRAINAGE PIPES TO BOTTOMS OF GRADE BEAMS, FOUNDATION WALLS, OR SIMILAR ELEMENTS. WHERE SUCH COVER CANNOT BE PROVIDED DUE TO INVERT ELEVATIONS, PROVIDE SCHEDULE 40 GALVANIZED STEEL PIPE SLEEVES THROUGH THE FOUNDATION ELEMENTS. SLEEVES SHALL BE NO SMALLER THAN TWO PIPE SIZES LARGER THAN THE PIPE SERVED. SEAL WATERTIGHT. COORDINATE WITH AND ADHERE TO ALL RELATED REQUIREMENTS PER THE STRUCTURAL ENGINEER.
6. CONTRACTOR SHALL FIELD COORDINATE LOCATIONS AND ELEVATIONS OF ALL PLUMBING PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. WHERE RELOCATIONS OF NEW WORK ARE REQUIRED TO CORRECT CONFLICTS WITH OTHER TRADES IT SHALL BE DONE AT NO ADDITIONAL COST TO OWNER.
7. ALL PIPE PASSING THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SUPPORTED AT THE PENETRATION AND SHALL BE SEALED WITH APPROVED FIRE STOP MATERIALS AS SPECIFIED AND AS REQUIRED BY CODE AND THE AUTHORITIES HAVING JURISDICTION.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING ALL PLUMBING PIPING SLEEVE LOCATIONS WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF ANY PIPING OR SUPPORTS.
9. HORIZONTAL GRAVITY DRAINAGE PIPING SHALL BE PROVIDED AT NO LESS THAN THE MINIMUM SLOPE AS REQUIRED BY THE PREVAILING PLUMBING CODE.
   A. IN ACCORDANCE WITH THE UPC: GRAVITY DRAINAGE PIPING 3" AND SMALLER SHALL BE PROVIDED AT NO LESS THAN 1/4 INCH PER FOOT UNIFORM SLOPE AND GRAVITY DRAINAGE PIPING 4" AND LARGER SHALL BE PROVIDED AT NO LESS THAN 1/8 INCH PER FOOT UNIFORM SLOPE.
   B. IN ACCORDANCE WITH THE IPC: GRAVITY DRAINAGE PIPING 2-1/2" AND SMALLER SHALL BE PROVIDED AT NO LESS THAN 1/4 INCH PER FOOT UNIFORM SLOPE AND GRAVITY DRAINAGE PIPING 3" AND LARGER SHALL BE PROVIDED AT NO LESS THAN 1/8 INCH PER FOOT UNIFORM SLOPE.
   C. WHERE THE PREVAILING CODE REQUIRES A STEEPER SLOPE THAN INDICATED ABOVE (SUCH AS FOR GREASE WASTE PIPING) THEN SUCH REQUIREMENT SHALL CONTROL.
10. SLOPE ALL VENT PIPE BACK FROM THE VENT TERMINAL AT A MINIMUM 6" PER 100 FEET OF RUN.
11. THE DISCHARGE LINE FROM ANY EJECTOR OR PUMP WHICH CONNECTS TO A HORIZONTAL GRAVITY DRAINAGE LINE SHALL BE FROM THE TOP, THROUGH A WYE BRANCH FITTING.
12. PROVIDE FITTINGS FOR DRAINAGE WASTE AND VENT (DWV) AND STORM PIPING SYSTEMS OF APPROVED DRAINAGE PATTERN AND LONG OR SHORT RADIUS TYPES AS REQUIRED AND APPROVED FOR USE IN COMPLIANCE WITH PLUMBING CODE REQUIREMENTS.
13. PROVIDE CLEANOUTS AT EACH CHANGE OF DRAINLINE DIRECTION GREATER THAN 45° AND IN COMPLIANCE WITH PLUMBING CODE REQUIREMENTS.
14. PROVIDE BRACING TO PREVENT AXIAL MOVEMENT FOR ALL DRAINAGE PIPING. PROVIDE RESTRAINTS AT ALL CHANGES IN DIRECTION AND AT ALL DIAMETER CHANGES GREATER THAN TWO PIPE SIZES. SPECIFICALLY ENGINEERED BRACES, STRAPS, AND CLAMPS CONSISTENT WITH THE PIPE AND COUPLING MANUFACTURER RECOMMENDATIONS, THE APPLICABLE INSTALLATION STANDARDS, AND LOCAL CODE REQUIREMENTS SHALL BE ACCEPTABLE. HOLDRITE OR PRE-APPROVED EQUIVALENT PRODUCTS.
15. PROVIDE ISOLATING BALL VALVES FOR ALL BRANCHES OFF DOMESTIC WATER MAINS. ALL PLUMBING SYSTEM VALVES SHALL BE INSTALLED IN ACCESSIBLE CEILING SPACES. WHERE CEILING IS NOT ACCESSIBLE, OR SPACE IS CONFLICTING, VALVES SHALL BE INSTALLED IN PARTITIONS OR PIPE CHASES. PROVIDE MILCOR STYLE 'K' PAINTED STEEL HINGED ACCESS PANELS IN LOCATIONS PRE-APPROVED BY THE ARCHITECT.
16. ALL HOT WATER AND HOT WATER CIRCULATING PIPING SHALL BE PROVIDED WITH FIBERGLASS INSULATION WITH ALL SERVICE JACKET AND SELF SEALING LAP JOINT AS FOLLOWS:
   A. 1" THICK INSULATION FOR PIPE SIZES 1-1/4" AND SMALLER.
   B. 1-1/2" THICK INSULATION FOR PIPE SIZES 1-1/2" AND LARGER.
17. INSTALL EACH WATER HEATER AND ALL OTHER PLUMBING EQUIPMENT WITH ADEQUATE CLEARANCES FOR ACCESS BY SERVICE PERSONNEL AND WITH PROPER ORIENTATION FOR ELEMENT REMOVAL/REPLACEMENT.
18. CONTRACTOR SHALL STERILIZE ALL DOMESTIC WATER PIPING ACCORDING TO AMERICAN WATER WORKS ASSOCIATION (AWWA) SPECIFICATIONS.
19. ALL CAST IRON PIPE, FITTINGS AND INSTALLATION SHALL COMPLY WITH THE CAST IRON SOIL PIPE INSTITUTE (CISPI) STANDARDS.
20. FLASH FLOOR DRAINS IN FLOORS WITH TOPPING OVER FINISHED AREAS WITH 40 MIL PVC MEMBRANE, 10 INCHES CLEAR ON SIDES WITH MINIMUM 36 X 36 INCH SHEET SIZE. FASTEN WATERPROOFING MEMBRANE FLASHING TO DRAIN CLAMPING DEVICE.
21. NO PLUMBING PIPING SHALL BE ROUTED OVER MAJOR MECHANICAL EQUIPMENT, MDF/IDF/DATA CLOSETS, ELECTRICAL ROOMS, OR ANY SUCH EQUIPMENT.
22. COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND ALSO TO MINIMIZE INTERRUPTION OF SERVICES FOR RENOVATIONS.
23. THE PROPER INSTALLATION OF NEW FIXTURES AND THE PROPER CONTINUED OPERATION OF EXISTING BUILDING FIXTURES TO REMAIN (FOR RENOVATIONS) SHALL GOVERN THE EXTENT AND NATURE OF WORK.
24. FOR RENOVATIONS THE CONTRACTOR SHALL MAKE ARRANGEMENTS IN ADVANCE WITH THE OWNER PRIOR TO ANY NECESSARY SHUT DOWN OF THE DOMESTIC WATER OR ANY OTHER SERVICE. ANY SUCH SHUT DOWN SHALL BE AT A TIME AND FOR A DURATION SATISFACTORY TO THE OWNER, WHO SHALL MAKE THE FINAL DETERMINATION AS TO ITS ACCEPTABILITY.
25. RENOVATIONS SITE INSPECTIONS: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMITTING A BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND EXACT NATURE OF WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN THE CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDS FOR ANY OMISSION WHICH RESULTS FROM FAILURE TO MAKE SUCH A THOROUGH EXAMINATION. NOTE THAT FOR GRAPHICAL CLARITY, ALL EXISTING PIPING TO REMAIN OR BE ABANDONED IN PLACE MAY NOT BE SHOWN ON THE FLOOR PLANS.

GENERAL PLUMBING NOTES: (NEWWORK - RENOVATION AND NEW CONSTRUCTION)

1. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL CODES AND AUTHORITIES HAVING JURISDICTION.
2. CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS AS REQUIRED TO MAKE FINAL CONNECTIONS FOR ALL PLUMBING FIXTURES, EQUIPMENT AND RELATED ITEMS PROVIDED UNDER SEPARATE DIVISIONS.
3. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS AND ELEVATIONS OF PROPOSED POINTS OF CONNECTION WITH EXISTING BUILDING PLUMBING UTILITY LINES AND SITE CIVIL LINES PRIOR TO INSTALLATION OF ANY NEW WORK.
4. CONTRACTOR SHALL BE RESPONSIBLE TO ALERT ARCHITECT AND ENGINEER OF GRADING CONFLICTS PRIOR TO COMMENCING INSTALLATION OF ANY WORK.
5. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL CONDITIONS AS EXISTING AND PROVIDE PROPER PIPING INSTALLATIONS AS REQUIRED WITHOUT DAMAGE TO STRUCTURE. WHERE STRUCTURAL MODIFICATIONS ARE TO BE REQUIRED, CONTRACTOR SHALL FIRST RECEIVE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING LOCATIONS AND ELEVATIONS OF ALL PLUMBING PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. WHERE RELOCATIONS OF NEW WORK ARE REQUIRED TO CORRECT CONFLICTS WITH OTHER TRADES IT SHALL BE DONE AT NO ADDITIONAL COST TO OWNER.
7. ALL PIPE PASSING THROUGH FIRE RATED WALLS OR FLOOR SLAB SHALL BE SUPPORTED AT THE PENETRATION AND SHALL BE SEALED WITH APPROVED FIRE STOP MATERIALS AS SPECIFIED AND REQUIRED BY CODE AUTHORITIES HAVING JURISDICTION.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING ALL PLUMBING PIPING SLEEVE LOCATIONS WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF ANY PIPING OR SUPPORTS.
9. DO NOT SCALE PLUMBING DRAWINGS FOR FIELD ROUGH-IN WORK. CONTRACTOR SHALL REFER TO THE DIMENSIONED ARCHITECTURAL AND STRUCTURAL DRAWINGS TO FIELD DETERMINE EXACT LOCATIONS OF ROUGH-IN WORK.
10. SANITARY DRAINAGE PIPE 3" AND SMALLER SHALL HAVE A UNIFORM MINIMUM CONTINUOUS SLOPE OF 1/4 INCH PER FOOT OF RUN. DRAINAGE PIPE 4" AND LARGER SHALL SLOPE AT MINIMUM 1/8 INCH PER FOOT OF RUN. SLOPE ALL VENT PIPE MINIMUM 6" PER 100 FEET OF RUN.
11. STORM DRAINAGE PIPE SHALL HAVE A UNIFORM MINIMUM CONTINUOUS SLOPE OF 1/8 INCH PER FOOT OF RUN. SLOPES OF 1/4 INCH PER FOOT ARE PERMITTED WHERE NOTED ON PLAN OR AS REQUIRED.
12. PROVIDE FITTINGS FOR SANITARY DRAIN, WASTE AND WASTE PIPING SYSTEMS OF APPROVED DRAINAGE PATTERN AND LONG OR SHORT RADIUS TYPES AS REQUIRED AND APPROVED FOR USE IN COMPLIANCE WITH PLUMBING CODE REQUIREMENTS.
13. PROVIDE CLEANOUTS AT EACH CHANGE OF DRAINLINE DIRECTION GREATER THAN 45° AND IN COMPLIANCE WITH PLUMBING CODE REQUIREMENTS.
14. PROVIDE BRACING TO PREVENT AXIAL MOVEMENT FOR ALL DRAINAGE PIPING. PROVIDE RESTRAINTS AT ALL CHANGES IN DIRECTION AND AT ALL DIAMETER CHANGES GREATER THAN TWO PIPE SIZES. BRACES, BLOCKS, RODDING AND OTHER METHODS AS PRESCRIBED BY THE PIPE AND COUPLING MANUFACTURER SHALL BE ACCEPTABLE.
15. PROVIDE ISOLATING BALL VALVES FOR ALL BRANCHES OFF DOMESTIC WATER MAINS. ALL PLUMBING SYSTEM VALVES SHALL BE INSTALLED IN ACCESSIBLE CEILING SPACES. WHERE CEILING IS NOT ACCESSIBLE, OR SPACE IS CONFLICTING, VALVES SHALL BE INSTALLED IN PARTITIONS OR PIPE CHASES. PROVIDE MILCOR STYLE 'K' PAINTED STEEL HINGED ACCESS PANELS IN LOCATIONS PRE-APPROVED BY THE ARCHITECT.
16. ALL HOT WATER AND HOT WATER CIRCULATING PIPING SHALL HAVE 1" THICK FIBERGLASS INSULATION WITH ALL SERVICE JACKET AND SELF SEALING LAP JOINT.
17. INSTALL EACH WATER HEATER AND ALL OTHER PLUMBING EQUIPMENT WITH ADEQUATE CLEARANCES FOR ACCESS BY SERVICE PERSONNEL AND WITH PROPER ORIENTATION FOR ELEMENT REMOVALS/REPLACEMENTS.
18. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD COORDINATING LOCATIONS OF ALL SANITARY VENTS UP THROUGH ROOF TO MAINTAIN MINIMUM 25' CLEARANCE TO ANY BUILDING OUTDOOR AIR INLET.
19. CONTRACTOR SHALL STERILIZE ALL DOMESTIC WATER PIPING ACCORDING TO AMERICAN WATER WORKS ASSOCIATION (AWWA) SPECIFICATIONS.
20. SHOCK ARRESTORS SHALL CONFORM WITH THE REQUIREMENTS OF SSE 1010 AND SHALL BE SIZED AND LOCATED PER PLUMBING AND DRAINAGE INSTITUTE STANDARD WH-201. ACCESS PANELS REQUIRED FOR FIXTURE GROUPS SHALL BE SIZED TO ALLOW SERVICE TO SHOCK ARRESTORS WHERE POSSIBLE. LOCATIONS AND SIZES OF REQUIRED ACCESS PANELS SHALL BE REVIEWED FOR APPROVAL BY THE ARCHITECT PRIOR TO INSTALLATION.
21. ALL CAST IRON FITTINGS AND INSTALLATION SHALL COMPLY WITH THE CAST IRON SOIL PIPE INSTITUTE (CISPI) STANDARDS.
22. FLASH FLOOR DRAINS IN FLOORS WITH TOPPING OVER FINISHED AREAS WITH 40 MIL PVC MEMBRANE. 10 INCHES CLEAR ON SIDES WITH MINIMUM 36 X 36 INCH SHEET SIZE. FASTEN WATERPROOFING MEMBRANE FLASHING TO DRAIN CLAMP DEVICE.

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PLUMBING GENERAL NOTES

P0.11

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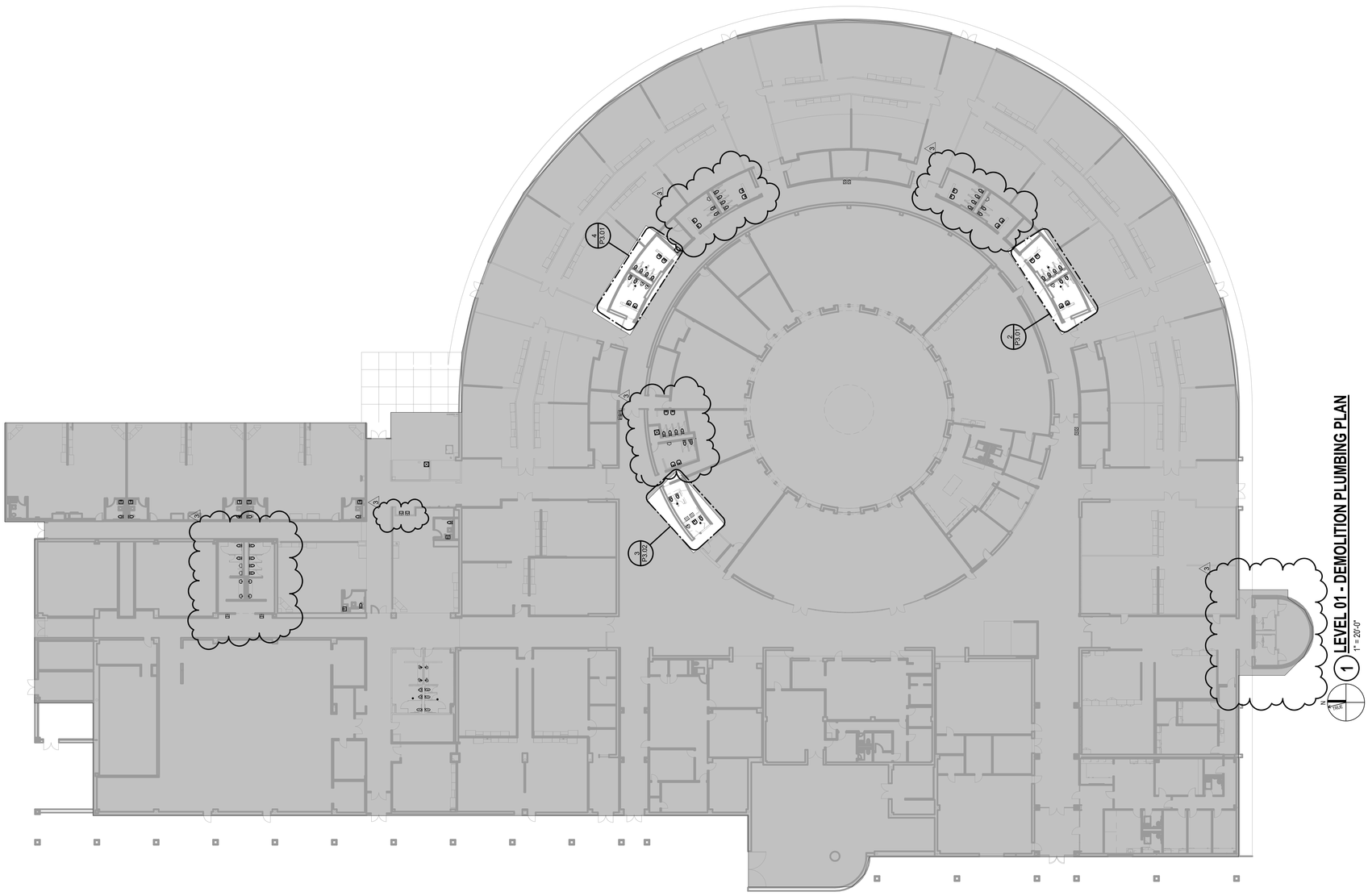
LEVEL 01 - DEMOLITION PLUMBING PLAN

P2.11



1 LEVEL 01 - DEMOLITION PLUMBING PLAN
1" = 20'-0"

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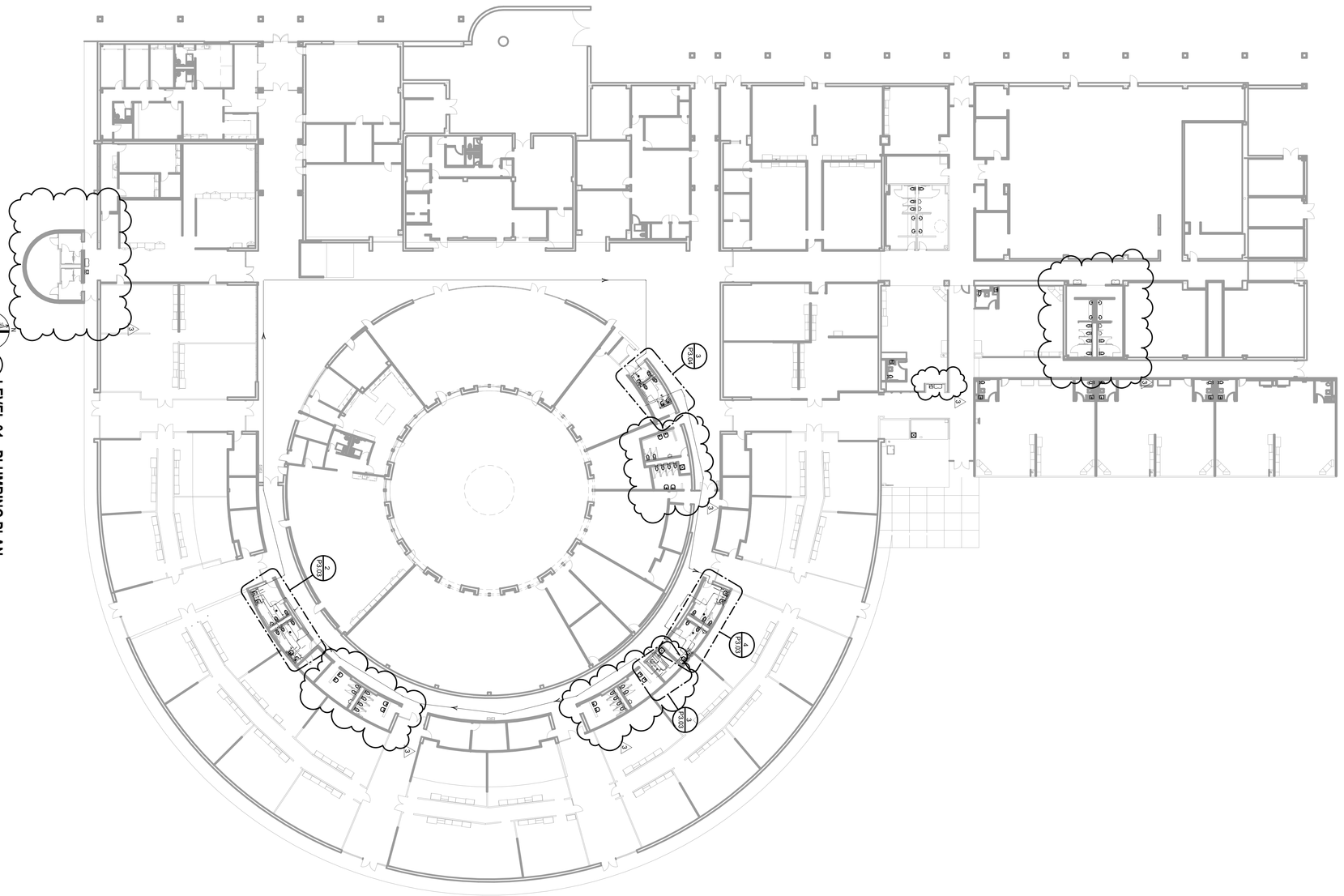

1 LEVEL 01 - PLUMBING PLAN
1" = 20'-0"

P2.12

39-25156-00

LEVEL 01 - PLUMBING PLAN

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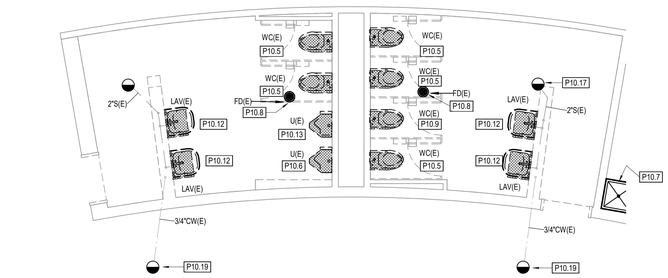

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4 LEVEL 01 - DEMOLITION PLUMBING PLAN - BOYS 250 / GIRLS 249

1/4" = 1'-0"

N

2 LEVEL 01 - DEMOLITION PLUMBING PLAN - BOYS 226 / GIRLS 227

1/4" = 1'-0"

PLUMBING KEYED NOTES

P10.5 REMOVE EXISTING WATER CLOSET. MODIFY EXISTING PLUMBING PIPING FOR NEW WATER CLOSET. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.6 REMOVE EXISTING URINAL. MODIFY EXISTING PLUMBING PIPING FOR NEW URINAL. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.7 EXISTING TO REMAIN.

P10.8 APPROXIMATE LOCATION OF EXISTING 3" FLOOR DRAIN. PREPARE FLOOR DRAIN FOR NEW STRAINER AND GRATE. NEW GRATE WILL BE SQUARE IN LIEU OF ROUND. PREPARE SURROUNDING FLOOR AS REQUIRED.

P10.9 REMOVE EXISTING WATER CLOSET IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.12 REMOVE EXISTING LAVATORY IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.13 REMOVE EXISTING URINAL IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.14 APPROXIMATE LOCATION OF EXISTING 3" FLOOR DRAIN. PREPARE FOR NEW FLOOR DRAIN TO BE EXTENDED BEYOND TOILET PARTITION. NEW GRATE SHALL BE SQUARE IN LIEU OF ROUND AS DESCRIBED IN PLUMBING FIXTURE SCHEDULE FOR FD-1. PREPARE SURROUNDING FLOOR AS REQUIRED. SAW-CUT SLAB AND PATCH TO MATCH AS REQUIRED.

P10.15 EXISTING DOMESTIC COLD WATER LINE TO BE REMOVED BACK TO THIS POINT AND PREPARED FOR FUTURE TIE IN. RE: NEW PLANS.

P10.17 EXISTING SANITARY LINE TO BE REMOVED BACK TO THIS POINT AND CAPPED FOR ABANDONMENT.

P10.19 EXISTING DOMESTIC COLD WATER LINE TO BE REMOVED BACK TO THE MAIN AND CAPPED FOR ABANDONMENT.

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LEVEL 01 - DEMOLITION PLUMBING PLAN - ENLARGED

P3.01

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PLUMBING KEYED NOTES

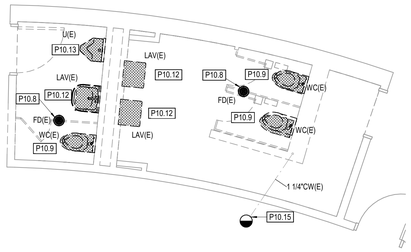
P10.8 APPROXIMATE LOCATION OF EXISTING 3" FLOOR DRAIN; PREPARE FLOOR DRAIN FOR NEW STRAINER AND GRATE. NEW GRATE WILL BE SQUARE IN LIEU OF ROUND. PREPARE SURROUNDING FLOOR AS REQUIRED.

P10.9 REMOVE EXISTING WATER CLOSET IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.12 REMOVE EXISTING LAVATORY IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.13 REMOVE EXISTING URINAL IN ITS ENTIRETY. CAP ANY UNUSED PIPING IN A CONCEALED LOCATION. PATCH WALL AND/OR FLOOR TO MATCH EXISTING.

P10.15 EXISTING DOMESTIC COLD WATER LINE TO BE REMOVED BACK TO THIS POINT AND PREPARED FOR FUTURE TIE IN. RE: NEW PLANS.



N

3 LEVEL 01 - DEMOLITION PLUMBING PLAN - MENS 131 / WOMENS 130

1/4" = 1'-0"

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LEVEL 01 - DEMOLITION PLUMBING PLAN - ENLARGED

P3.02

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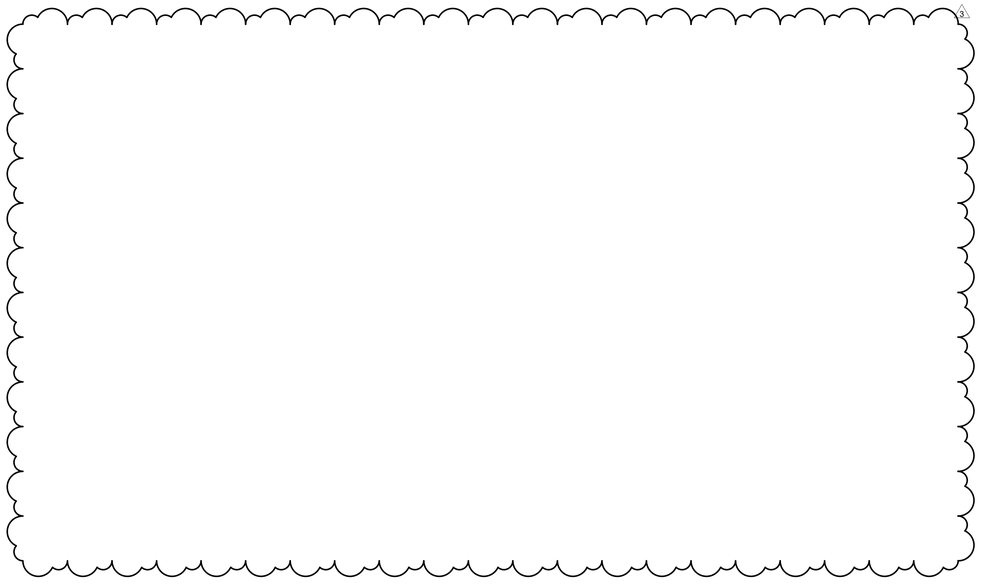
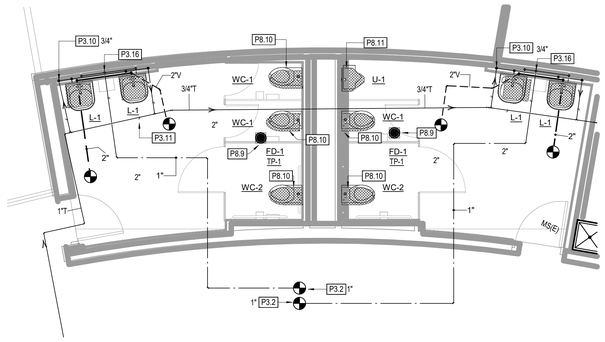




N

4 LEVEL 01 - PLUMBING PLAN - BOYS 250 / GIRLS 249

1/4" = 1'-0"

PLUMBING KEYED NOTES

P2.3 MODIFY AS REQUIRED AND CONNECT NEW SANITARY WASTE BELOW FLOOR TO EXISTING OF EQUAL OR GREATER SIZE.

P2.4 MODIFY AS REQUIRED AND CONNECT NEW VENT ABOVE CEILING TO EXISTING OF EQUAL OR GREATER SIZE.

P3.2 MODIFY AS REQUIRED AND CONNECT NEW COLD WATER ABOVE CEILING TO EXISTING OF EQUAL OR GREATER SIZE.

P3.7 DROP AND EXTEND MINIMUM 1-1/2" COLD WATER TO SERVE FIXTURE(S).

P3.10 HOT WATER DROP DOWN TO, RISE UP FROM, AND CIRCULATED HOT WATER LINE INSIDE WALL/CHASE AND WITHIN 2'-0" OF HOT WATER ROUGH-IN TO LAVATORY FOR 2015 IECC COMPLIANCE. SIZE AS NOTED.

P3.11 PROVIDE NORMALLY CLOSED BYPASS VALVE ON HOT WATER LOOP.

P3.13 HOT WATER RETURN BALANCING VALVE. SET TEMP AND FLOW AS SHOWN IN DRAWINGS.

P3.16 DROP AND EXTEND 1" COLD WATER TO SERVE FIXTURE(S).

P8.7 NEW FLOOR DRAIN LOCATION EXTENDED FROM EXISTING LOCATION. SAW-CUT SLAB AND PATCH TO MATCH AS NECESSARY.

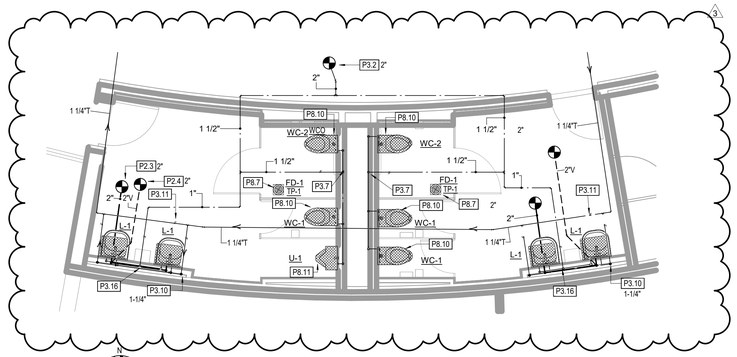
P8.9 REPLACE EXISTING FLOOR DRAIN GRATE AND STRAINER IN SAME LOCATION. FLOOR DRAIN GRATE SHALL BE SQUARE TYPE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION. FLOOR DRAIN LOCATIONS WERE TAKEN FROM EXISTING ENGINEERING DRAWINGS ON FILE.

P8.10 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW WATER CLOSET. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW WATER CLOSET.

P8.11 EXTEND COLD WATER AND VENT ABOVE CEILING TO EXISTING UTILITIES AND MODIFY AS REQUIRED TO SERVE NEW URINAL. EXTEND WASTE BELOW FLOOR TO EXISTING UTILITY AND MODIFY AS REQUIRED TO SERVE NEW URINAL.

P8.15 PROVIDE (TMV-1) HYDROGUARD SERIES LFLM490 THERMOSTATIC TEMPERING VALVE FOR HOT WATER DISTRIBUTION.

P9.4 FLOOR MOUNT ELECTRIC WATER HEATER T&P RELIEF VALVE AND DRAIN PAN SHALL DISCHARGE TO NEW FUNNEL DRAIN.



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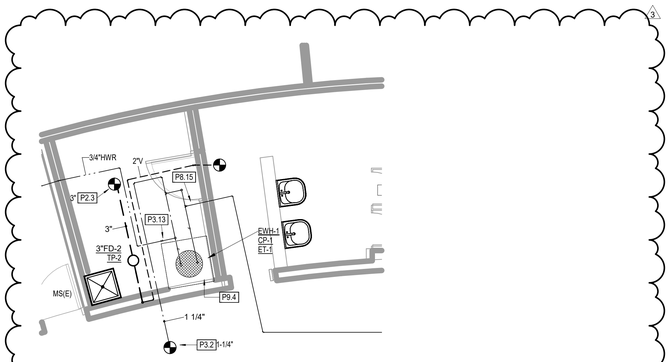
2 LEVEL 01 - PLUMBING PLAN - BOYS 226 / GIRLS 227

1/4" = 1'-0"



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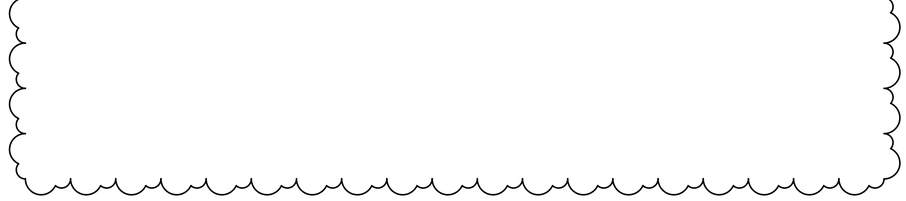
3 LEVEL 01 - PLUMBING PLAN - BOYS 247 / GIRLS 246

1/4" = 1'-0"



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LEVEL 01 - PLUMBING PLAN - ENLARGED

P3.03

PLUMBING KEYED NOTES

P2.3 MODIFY AS REQUIRED AND CONNECT NEW SANITARY WASTE BELOW FLOOR TO EXISTING OF EQUAL OR GREATER SIZE.

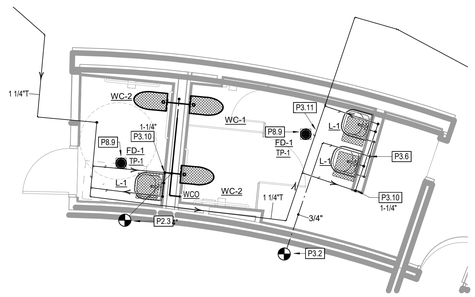
P3.2 MODIFY AS REQUIRED AND CONNECT NEW COLD WATER ABOVE CEILING TO EXISTING OF EQUAL OR GREATER SIZE.

P3.6 DROP AND EXTEND 3/4" COLD WATER TO SERVE FIXTURE(S).

P3.10 HOT WATER DROP DOWN TO, RISE UP FROM, AND CIRCULATED HOT WATER LINE INSIDE WALL/CHASE AND WITHIN 2'-0" OF HOT WATER ROUGH-IN TO LAVATORY FOR 2015 IECC COMPLIANCE. SIZE AS NOTED.

P3.11 PROVIDE NORMALLY CLOSED BYPASS VALVE ON HOT WATER LOOP.

P8.9 REPLACE EXISTING FLOOR DRAIN GRATE AND STRAINER IN SAME LOCATION. FLOOR DRAIN GRATE SHALL BE SQUARE TYPE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION. FLOOR DRAIN LOCATIONS WERE TAKEN FROM EXISTING ENGINEERING DRAWINGS ON FILE.



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3 LEVEL 01 - PLUMBING PLAN - MENS 131 / WOMENS 130

1/4" = 1'-0"

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LEVEL 01 - PLUMBING PLAN - ENLARGED

P3.04

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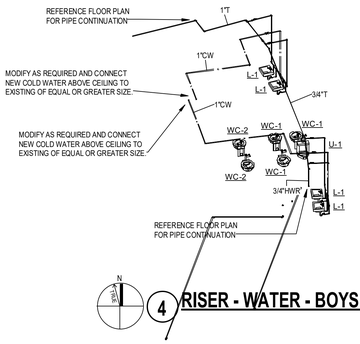
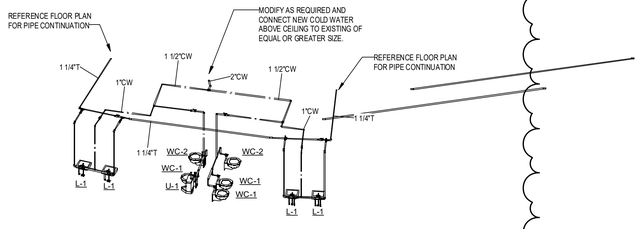


4 **RISER - WATER - BOYS 250 / GIRLS 249**



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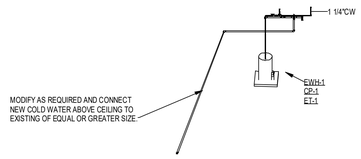

3 **RISER - WATER - BOYS 247 / GIRLS 246**

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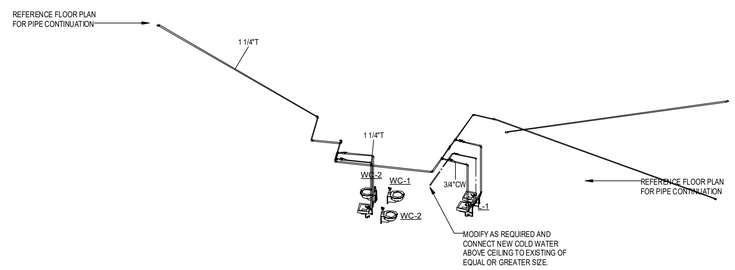
PLUMBING RISERS

P4.01



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3 **RISER - WATER - MENS 131 / WOMENS 130**

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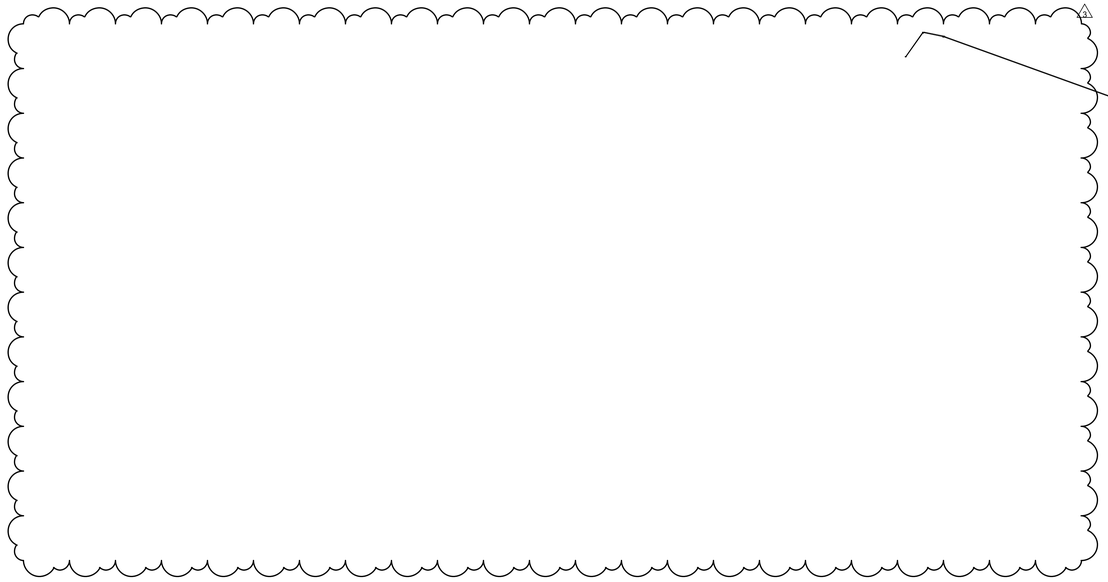
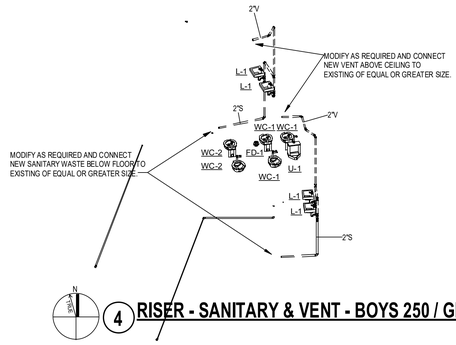
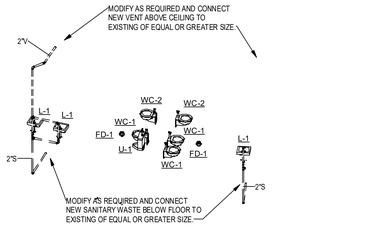
P4.02





4 RISER - SANITARY & VENT - BOYS 250 / GIRLS 249



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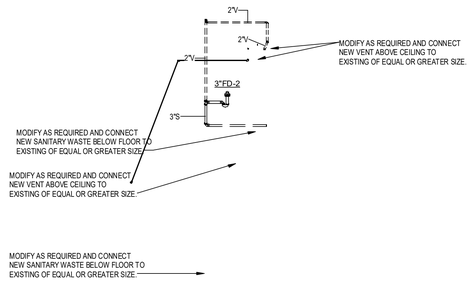

3 RISER - SANITARY & VENT - BOYS 247 / GIRLS 246

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P4.03

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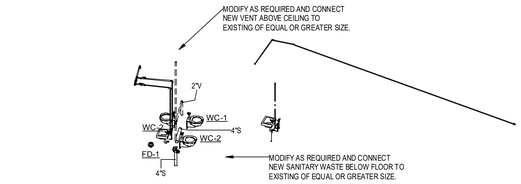

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3 **RISER - SANITARY & VENT - MENS 131 / WOMENS 130**

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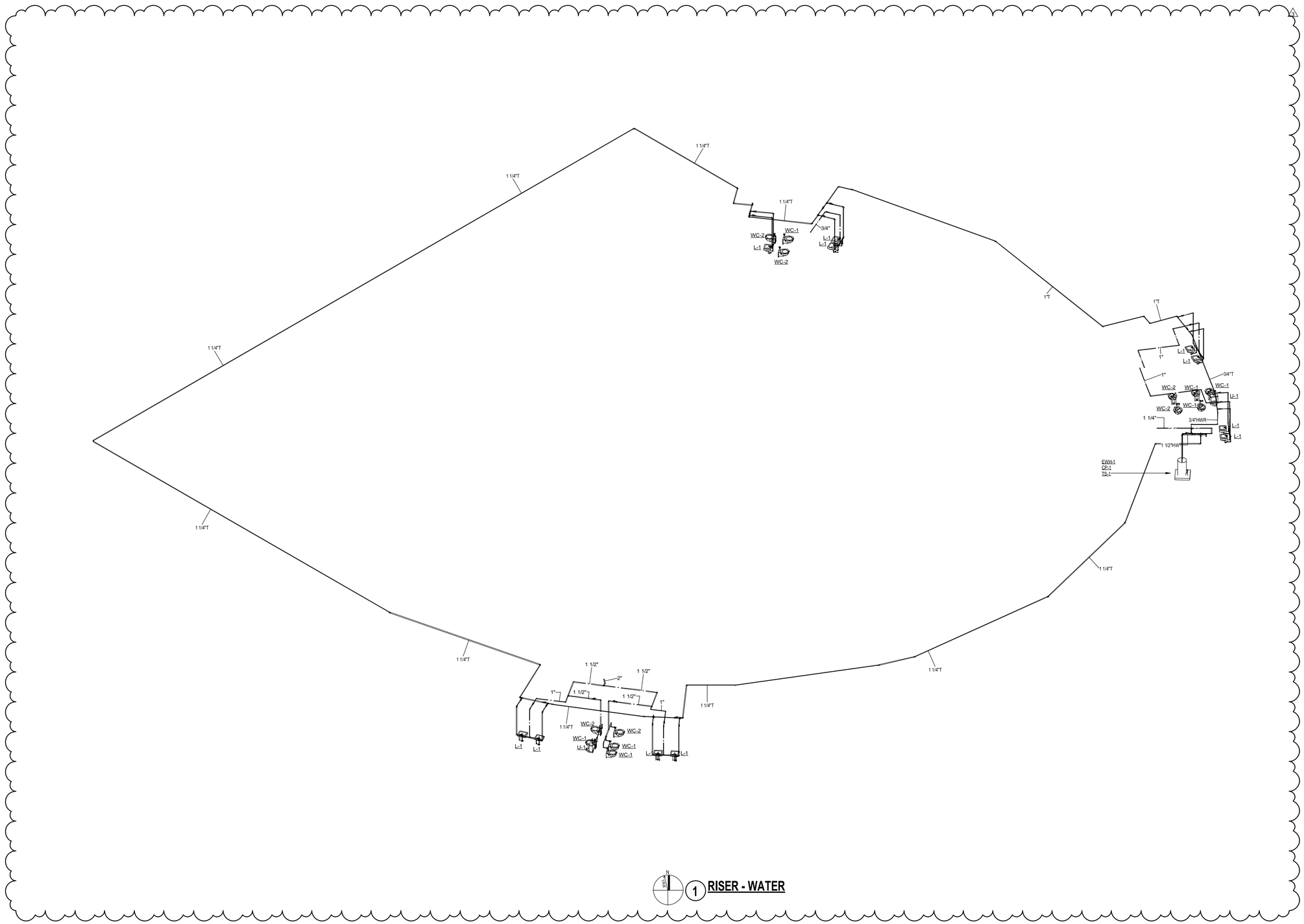
PLUMBING RISERS

P4.04



1 **RISER - WATER**

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PLUMBING RISERS

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PLUMBING FIXTURE SCHEDULE

PLAN MARK	MINIMUM ROUGH-IN SIZES					DESCRIPTION
	WASTE & VENT		DRAIN	CW	HW	
WATER CLOSET WC-1	4"	2"	4"	1-1/2"	---	AMERICAN STANDARD No. 2257.101 "AFWALL" WHITE V.C. ELONGATED SIPHON JET WALL HUNG (1.28 GPF) BOWL WITH TOP SPUD
FLUSH VALVE						SLOAN REGAL No. 111-1.28 FLUSH VALVE LOW CONSUMPTION (MANUAL) VALVE. POLISHED CHROME FINISH.
ACCESSORIES						BEMIS 1655-SS/CT EXTRA HEAVY DUTY TOILET SEAT, BLACK,ELONGATED BOWL, OPEN SEAT LESS COVER WITH SELF-SUSTAINING, STAINLESS STEEL CHECK HINGE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CARRIER. FOR FULL DESCRIPTION REFER TO PROJECT SPECIFICATIONS. REFER TO ARCHITECTS PLANS FOR ADA MOUNTING HEIGHT.
WATER CLOSET WC-2 ADA	4"	2"	4"	1-1/2"	---	AMERICAN STANDARD No. 2257.101"AFWALL" SAME AS ABOVE EXCEPT WITH TRIM AS REQUIRED FOR ADA USE. REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT.
URINAL U-1 ADA	2"	2"	2"	3/4"	---	AMERICAN STANDARD No. 6590.001 "WASHBROOK" WHITE V.C. WASHOUT FIXTURE (0.125 GPF) WITH WALL HANGERS, MOUNTING BRACKET, TOP SPUD. PROVIDE CHROME FINISH KOHLER "BARTON" REMOVABLE BEEHIVE STRAINER.
FLUSH VALVE						SLOAN No. 186-0.5 FLUSH VALVE HIGH EFFICIENCY (MANUAL) VALVE. POLISHED CHROME FINISH.
ACCESSORIES						PROVIDE ZURN OR EQUAL FLOOR MOUNTED CARRIER. FOR FULL DESCRIPTION REFER TO PROJECT SPECIFICATIONS, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT.
LAVATORY L-1 WALL MOUNT - ADA	2"	2"	1-1/4"	3/4" 1/2"TW (90°)	3/4"	AMERICAN STANDARD LUCERNE 0355.012 WALL HUNG LAVATORY WITH FRONT OVERFLOW AND FAUCET HOLES DRILLED ON 4" CENTERS, WHITE VITREOUS CHINA.
FAUCET						CHICAGO No. 802-VE2805-317ABCP (0.5 GPM) CENTERSET FAUCET WITH VANDAL PROOF WRIST BLADE HANDLES
ACCESSORIES						REFER TO PLUMBING SUPPLIES AND TRIM SCHEDULE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS. PROVIDE TMV-1 SET TEMPERATURE TO 90°.
ELECTRIC DRINKING FOUNTAIN EDF-1 ADA (LOWSIDE)	2"	2"	1-1/4"	3/4"	---	HALSEY TAYLOR No. HTHB-HAC8SS-WF BOTTLE FILLING STATION & SINGLE COOLER FILTERED REFRIGERATED STAINLESS. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50° F DRINKING WATER, BASED ON 80° F INLET WATER AND 90° F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE FILTERED, GREEN TICKER, LAMINAR FLOW, REAL DRAIN, VANDAL RESISTANT, VISUAL FILTER MONITOR. FURNISHED WITH VANDAL RESISTANT BUBBLER. ELECTRONIC BOTTLE FILLER BUTTON WITH MECHANICAL FRONT BUBBLER BUTTON ACTIVATION. PRODUCT SHALL BE WALL MOUNT (ON WALL), FOR INDOOR APPLICATIONS. SERVING 1 STATION(S). UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120.
ELECTRICAL REQUIREMENTS						1/5 HP, 4.0 FL. AMPS. WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS.
ACCESSORIES						REFER TO PLUMBING SUPPLY AND TRIM SCHEDULE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING...
ELECTRIC DRINKING FOUNTAIN EDF-2 (HIGHSIDE)	2"	2"	1-1/4"	3/4"	---	HALSEY TAYLOR No. HAC8SS-WF WALL MOUNT ADA COOLER FILTERED 8.0 GPH STAINLESS. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50° F DRINKING WATER, BASED ON 80° F INLET WATER AND 90° F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE FILTERED, FURNISHED WITH DOUBLE BUBBLER, MECHANICAL FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION. PRODUCT SHALL BE WALL MOUNT (ON WALL), FOR INDOOR APPLICATIONS. SERVING 1 STATION(S)0. UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120.
ELECTRICAL REQUIREMENTS						1/5 HP, 4.0 FL. AMPS. WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS.
ACCESSORIES						REFER TO PLUMBING SUPPLY AND TRIM SCHEDULE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHTS.
ELECTRIC DRINKING FOUNTAIN EDF-3 ADA	2"	2"	1-1/4"	3/4"	---	HALSEY TAYLOR No. HTHB-HAC8BLSS-WF BOTTLE FILLING STATION & BI-LEVEL HIGH EFFICIENCY VANDAL RESISTANT COOLER FILTERED REFRIGERATED STAINLESS. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50° F DRINKING WATER, BASED ON 80° F INLET WATER AND 90° F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE ANTIMICROBIAL* FILTERED, GREEN TICKER, HANDS FREE, HIGH EFFICIENCY, LAMINAR FLOW, REAL DRAIN, VANDAL RESISTANT, VISUAL FILTER MONITOR. FURNISHED WITH VANDAL RESISTANT STREAMSAVER ™ BUBBLER. ELECTRONIC BOTTLE FILLER SENSOR WITH MECHANICAL FRONT BUBBLER BUTTON ACTIVATION. PRODUCT SHALL BE WALL MOUNT (ON WALL), FOR INDOOR APPLICATIONS, SERVING 2 STATION(S). UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120.
ELECTRICAL REQUIREMENTS						1/5 HP, 4.0 FL. AMPS. WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS.
ACCESSORIES						REFER TO PLUMBING SUPPLY AND TRIM SCHEDULE. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CONCEALED ARM CARRIER, REFER TO ARCHITECTS PLANS FOR MOUNTING...
MOP SINK MS-1	3"	2"	3"	3/4"	3/4"	MUSTEE MODEL No. 63M FLOOR MOUNTED SQUARE 24" X 24" HIGH IMPACT RESISTANT DURASTONE STRUCTURAL FIBBER GLASS MOP SERVICE BASIN.
FAUCET						MUSTEE MODEL No. 63.600A SERVICE FAUCET, HEAVY DUTY, CHROME PLATED BRASS DUAL HANDLE SINK FAUCET WITH TOP REINFORCING BAR AND PAIL HOOK ON SPOUT.
ACCESSORIES						MUSTEE MODEL No. 65.60 MOP HANGER, MUSTEE MODEL No. 65.700 HOSE AND HOSE HOLDER.

* - REFER TO DRAWINGS FOR SIZING.
GENERAL NOTES:
1. FOR ALL SUPPLY STOPS AND TRIM REFER TO THE PLUMBING FIXTURE SUPPLIES AND TRIM SCHEDULE.
2. FOR MOUNTING HEIGHTS OF INDIVIDUAL FIXTURES, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
3. CONTRACTOR TO COORDINATE LOCATION OF DRAINS AND FLOOR SINKS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

ELECTRIC WATER HEATER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL #	TYPE	FUEL	GALLONS	HEATING LOAD (BTU/hr)	CW INLET	HW OUTLET	GPH RECOVERY @ 80° TEMP RISE	STANDBY LOSS (%/hour)	ELECTRICAL REQUIREMENTS			
											VOLTS (V)	PHASE	kW	AMPS
ELECTRIC WATER HEATER EWH-1	A.O. SMITH	DEL-40	STORAGE TANK	ELECTRIC	40	10,236	1-1/4"	1-1/4"	41	0.87	480	3	6.0	7.2

NOTES:
1. PROVIDE WITH WALL MOUNTED WATER HEATER PLATFORM.
2. PROVIDE ASME TEMPERATURE AND PRESSURE RELIEF VALVE, AND DIAL THERMOMETER IN HW OUTLET PIPING
3. FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS, VERIFY WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

PLAN MARK	MANUFACTURER	MODEL #	DESCRIPTION	ELECTRICAL REQUIREMENTS			
				VOLTS (V)	PHASE	kW	HP
CIRCULATION PUMP CP-1 (EWH-1)	GRUNDFOS	MAGNA3 32-60	ALL STAINLESS STEEL FLANGED PUMP, 1/25 HP WIRED FOR POWER AS SCHEDULED ON ELECTRICAL DRAWINGS AND FITTED WITH REMOTE HEAT SENSING AQUASTAT CONTROLLER. CONTROLLED BY ELECTRICAL CONTRACTOR, DESIGNED AT 15 FT HEAD LOSS.	115	1	85 W	0.04
THERMAL EXPANSION TANK ET-1	AMTROL	THERM-X-TROL MODEL ST-5-C	ASME THERMAL EXPANSION ABSORBERS, SAFETY RELIEF VALVE, MAXIMUM WORKING PRESSURE 150 PSIG, TOTAL VOLUME 2.0 GALLONS.	--	--	--	--

PLUMBING FIXTURE SCHEDULE

PLAN MARK	MINIMUM ROUGH-IN SIZES					DESCRIPTION
	WASTE & VENT		DRAIN	CW	HW	
THERMOSTATIC MIXING VALVE TMV-1	---	---	---	1/2"	1/2"	LEONARD MODEL: 270-LF ADJUSTABLE POINT-OF-USE LEAD FREE THERMOSTATIC MIXING VALVE, ASSE 1070 WITH INLET CHECK STOPS TO LIMIT HOT WATER TEMPERATURE. SET TEMPERATURE AT 110°. PROVIDE WITH MOUNTING BRACKET.
FLOOR DRAIN FD-1	3"	2"	3"	---	---	ZURN No. ZN-415 CAST IRON DRAIN WITH 6" DIAMETER TYPE "B" STRAINER AND 1/2" IPS TRAP PRIMER CONNECTION. FOR FLOOR DRAIN BODY POURED IN CONCRETE SLAB PROVIDE ZURN Z1023 TRAP PRIMER EXTENSION. PROVIDE SQUARE COVER GRATE TYPE.
FLOOR DRAIN FD-2	3"	2"	3"	---	---	ZURN No. ZN-415 CAST IRON DRAIN WITH 7" DIAMETER TYPE 'E' STRAINER, TRAP PRIMER CONNECTION AND 4" DIAMETER FUNNEL GRATE. FOR FLOOR DRAIN BODY POURED IN CONCRETE SLAB PROVIDE ZURN Z1023 TRAP PRIMER EXTENSION.
TRAP PRIMER TP-1	---	---	---	1/2"	---	PRECISION PLUMBING PRODUCTS, INC. FLUSH VALVE PRIMER No. FVP-1VB WITH VACUUM BREAKER TRAP REFILL SUPPLY. CONTRACTOR TO INSTALL PRIMER ON NEAREST WATER CLOSET TO FLOOR DRAIN SUPPLIED. ALL EXPOSED PIPING SHALL BE CHROME PLATED AND CONCEALED SUPPLY TUBING SHALL BE 1/2" TYPE "K" SOFT COPPER.
TRAP PRIMER TP-2	---	---	---	1/2"	---	PRECISION PLUMBING PRODUCTS, INC. No. PO-500 AUTOMATIC PRESSURE DROP TRAP PRIMER VALVE. INSTALL CONCEALED IN ACCESSIBLE LOCATION, BEHIND APPROVED ACCESS PANEL OR EXPOSED IN MECHANICAL EQUIPMENT AREAS WITH TRAP PRIMER DISTRIBUTION UNIT. INSTALL AT MINIMUM 15" A.F.F.
WALL CLEANOUT WCO	---	---	---	---	---	ZURN No. ZN-1440 DURO-COATED CAST IRON CLEANOUT TEE WITH COUNTER-SUNK GASKET, WATERTIGHT THREADED PLUG AND ZURN 1460 SQUARE SMOOTH ACCESS COVER WITH VANDAL PROOF SCREWS.
FLOOR CLEANOUT FCO	---	---	---	---	---	ZURN No.ZN-1400 CAST IRON CLEANOUT WITH COUNTER-SUNK PLUG AND ROUND SCORIATED TOP FOR GENERAL PURPOSE AREAS. PROVIDE VARIATION AS REQUIRED FOR FLOOR FINISH WHERE INSTALLED. SEE ARCHITECT DWG'S FOR FLOOR TYPES.
GRADE CLEANOUT GCO	---	---	---	---	---	ZURN No. Z-1402 DURO-COATED CAST IRON CLEANOUT WITH WATERTIGHT COUNTER-SUNK PLUG AND SCORIATED SECURED TOP WITH FRAME. INSTALL IN 18"x18"x6" THICK CONCRETE PAD.

* - REFER TO DRAWINGS FOR SIZING.
GENERAL NOTES:
1. FOR ALL SUPPLY STOPS AND TRIM REFER TO THE PLUMBING FIXTURE SUPPLIES AND TRIM SCHEDULE.
2. FOR MOUNTING HEIGHTS OF INDIVIDUAL FIXTURES, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
3. CONTRACTOR TO COORDINATE LOCATION OF DRAINS AND FLOOR SINKS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

PLUMBING FIXTURE SUPPLIES AND TRIM

FIXTURE	MANUFACTURER	STRAINER	P-TRAP	SIZE	ANGLE STOP AND SUPPLY RISER
LAVATORY	McGUIRE	HD155A	8872	1-1/4"	LFBV2165-LK, 1/2" I.P.S. X 3/8" O.D.
DRINKING FOUNTAIN	McGUIRE	HD155A	8872	1-1/4"	LFBV2165-LK, 1/2" I.P.S. X 3/8" O.D.
SINK	McGUIRE	152N	8912	1-1/2"	LFBV2165-LK, 1/2" I.P.S. X 3/8" O.D.
2 COMPARTMENT SINK, NO DISPENSER	McGUIRE	(2) 152N WITH CONTINUOUS WASTE 111C16G17	8912	1-1/2"	LFBV2165-LK, 1/2" I.P.S. X 3/8" O.D.

NOTE:

1. STRAINERS SHALL BE HEAVY CAST BRASS CHROME PLATED WITH MATCHING GRID TYPE STRAINER, WITH OR WITHOUT OVERFLOW AS REQUIRED. 17 GAUGE SEAMLESS BRASS TAILPIECE OF LENGTH DETERMINED BY INSTALLATION REQUIREMENTS. PROVIDE COMPLETE WITH WASHERS AND BRASS LOCKNUT.

2. P-TRAPS SHALL BE 17 GAUGE SEAMLESS CHROME-PLATED BRASS, ADJUSTABLE TYPE. PROVIDE COMPLETE WITH CLEANOUT PLUG, CHROME-PLATED BRASS SLIP NUTS, WALL BEND, AND WROUGHT BRASS ESCUTCHEON OF DEPTH DETERMINED BY INSTALLATION REQUIREMENTS.

3. ANGLE STOPS SHALL BE LEAD-FREE COMMERCIAL PATTERN CHROME-PLATED BRASS, QUARTER-TURN BALL TYPE WITH LOOSE KEY HANDLES. PROVIDE COMPLETE WITH CHROME-PLATED COPPER SUPPLY RISERS AND WROUGHT BRASS ESCUTCHEON OF DEPTH DETERMINED BY INSTALLATION REQUIREMENTS.

4. PIPE TRIM INSULATION SHALL BE COMPLIANT, WHITE MOLDED VINYL, FADE/DISCOLORATION-RESISTANT, BACTERIA/FUNGAL-RESISTANT INSULATION.
5. PROVIDE ZURN OR EQUAL FLOOR MOUNTED CARRIER.

PIPING MATERIAL SCHEDULE

PIPING SYSTEM	PIPING MATERIAL
DOMESTIC HOT& COLD WATER PIPING, WITHIN BUILDING BELOW GRADE	COPPER TUBING: ASTM B88, TYPE K, SOFT ANNEALED
DOMESTIC HOT& COLD WATER PIPING, WITHIN BUILDING ABOVE GRADE	COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN.
FIRE SPRINKLER BELOW GROUND	DUCTILE IRON
FIRE SPRINKLER ABOVE GROUND - 2" AND SMALLER (WET PIPE SPRINKLER)	ASTM A135/A135M / ASTM A53/A53M SCHEDULE 10 BLACK STEEL PIPE WITH ROLL-GROOVED ENDS. JOINED WITH MECHANICAL COUPLINGS AND WITH MANUFACTURED CARBON STEEL GROOVED FITTINGS WITH MATCHING MECHANICAL COUPLINGS FOR PIPE 2-1/2" AND LARGER.
FIRE SPRINKLER ABOVE GROUND - 2-1/2" AND LARGER (WET PIPE SPRINKLER)	ASTM A135/A135M / ASTM A53/A53M SCHEDULE 10 BLACK STEEL PIPE WITH ROLL-GROOVED ENDS. JOINED WITH MECHANICAL COUPLINGS AND WITH MANUFACTURED CARBON STEEL GROOVED FITTINGS WITH MATCHING MECHANICAL COUPLINGS FOR PIPE 2-1/2" AND LARGER.
SANITARY SOIL, WASTE AND VENT PIPING, BURIED WITHIN 5 FT OF BUILDING, BELOW GRADE	PVC PIPE: ASTM D1785 / ASTM D2665 SCHEDULE 40 SOLID WALL; INSTALLED PER ASTM D2321.
SANITARY SOIL, WASTE AND VENT PIPING, WITHIN BUILDING, ABOVE GRADE	CAST IRON PIPE: CISPI 301 OR ASTM A888, HUBLESS.
GENERAL NOTES: 1. REFER TO PROJECT SPECIFICATIONS FOR FURTHER CLARIFICATION AND COMPLETE PIPING DESCRIPTION.	

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PLUMBING SCHEDULES

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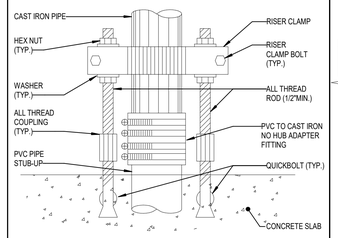
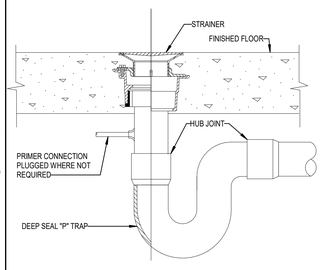
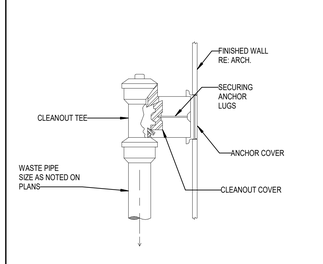


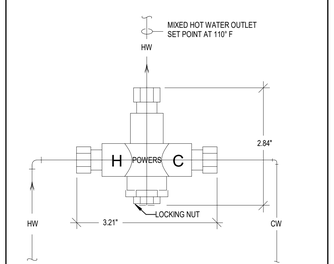
1 PVC TO CAST IRON SUPPORT



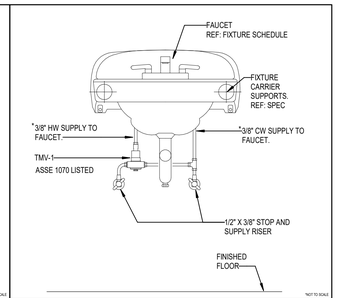
2 FLOOR DRAIN



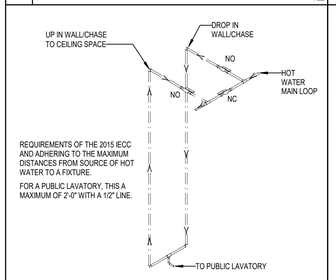
3 WALL CLEANOUT - FIRE DEPT.



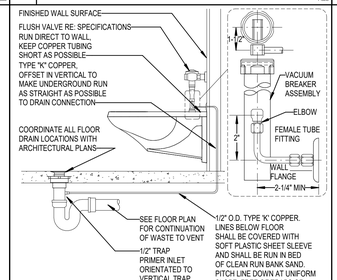
4 THERMOSTATIC MIXING VALVE



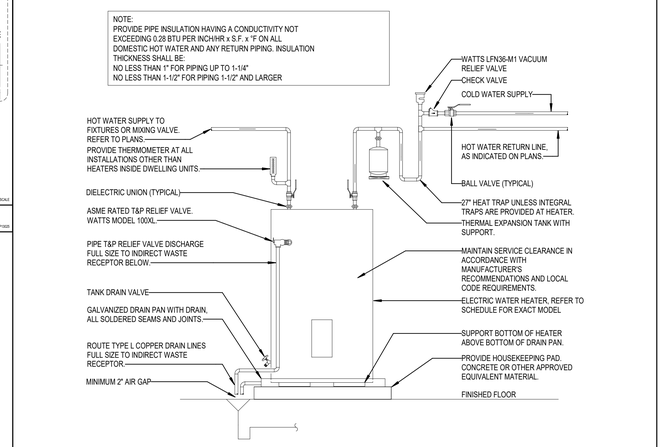
5 TMV-1 INSTALLATION



6 HOT WATER LOOP W/BYPASS



TRAP PRIMER



8 FLOOR MOUNTED ELECTRIC WATER HEATER W/HOT WATER RETURN

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