NEW OPPORTUNITY AWARENESS CENTER

Katy ISD

Katy, TX



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Katy ISD
Katy, TX

NEW OPPORTUNITY AWARENESS CENTER

REGISTERED ARCHITECT CHARLES W. JOHNSON 20944 STATE OF TEXAS

05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	CLP

PROJECT NO.

25-0067.00

SHEET TITLE

COVER

SHEET NO.

COVER

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NEW OPPORTUNITY AWARENESS CENTER

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ABBREVIATIONS

A

AFF	ABOVE FINISH FLOOR
ACT	ACOUSTICAL CEILING TILE
ADDL	ADDITIONAL
AB	AIR BARRIER
ACM	ALUMINUM COMPOSITE PANEL
ADA	AMERICANS WITH DISABILITIES ACT
AL/ALUM	ALUMINUM
APPROX	APPROXIMATE OR APPROXIMATELY
ARCH	ARCHITECT OR ARCHITECTURAL

B

BD	BOARD
BOW	BOTTOM OF WALL
BUR	BUILT-UP ROOFING
BLDG	BUILDING

C

℄	CENTER LINE
CR	CLASSROOM
CFS	COLD-FORMED STEEL
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CM	CONSTRUCTION MANAGER
CONT	CONTINUOUS
CI	CONTINUOUS INSULATION
CJ	CONTROL JOINT
COORD	COORDINATE
CORR	CORRIDOR

D

DIA	DIAMETER
DO.	DOOR OPENING
DN	DOWN
DS	DOWNSPOUT

E

EA	EACH
EW	EACH WAY
ELEC	ELECTRICAL
EWC	ELECTRIC WATER COOLER
ELEV	ELEVATION
EQ	EQUAL
EQPT	EQUIPMENT
EXIST	EXISTING
EJ	EXPANSION JOINT
EXT	EXTERIOR
EIFS	EXTERIOR INSULATION & FINISH SYSTEM

F

FT	FEET or FOOT
FRP	FIBERGLASS REINFORCED PLASTIC
FV	FIELD-VERIFY
FIN	FINISH
FF	FINISH FLOOR
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER & CABINET
FHC	FIRE HOSE CABINET
FHCS	FLAT-HEAD COUNTERSUNK
FL	FLOOR
FD	FLOOR DRAIN
FLR	FLUORESCENT

G / H

GALV	GALVANIZED
GA	GAGE
GC	GENERAL CONTRACTOR
GO	GLAZED OPENING
GYP	GYPSUM
HT	HEIGHT
HP	HIGH POINT
HM	HOLLOW METAL
HORZ	HORIZONTAL
HB	HORIZONTAL BLINDS
HDG	HOT-DIP GALVANIZED
HR	HOUR

I / J / K

ID	INSIDE DIAMETER
INSUL	INSULATION
IFP	INTERACTIVE FLAT PANEL
IMB	INTERACTIVE MARKERBOARD
INT	INTERIOR
IBC	INTERNATIONAL BUILDING CODE

L

LAV	LAVATORY
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LVT	LUXURY VINYL TILE

M

MFR	MANUFACTURER
MFG	MANUFACTURING
MB	MARKER BOARD
MO	MASONRY OPENING
MAX	MAXIMUM
MECH	MECHANICAL

M (CONT.)

MOD BIT	MODIFIED BITUMEN
MULL	MULLION
MEP	MECHANICAL-ELECTRICAL-PLUMBING
MCM	METAL COMPOSITE MATERIAL
MIN	MINIMUM
MISC	MISCELLANEOUS

N

NOM	NOMINAL
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO. /#	NUMBER

O

OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OHD	OVERHEAD
OFCI	OWNER-FURNISHED, CONTRACTOR-INSTALLED
OFOI	OWNER-FURNISHED, OWNER INSTALLED

P / Q

PR	PAIR
P.LAM.	PLASTIC LAMINATE
PLT	PLATE
PLMB	PLUMBING
PT	POINT
PCF	POUNDS PER CUBIC FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PREFAB	PREFABRICATED
PROJ	PROJECTOR or PROJECTION
QT	QUARRY TILE

R

R.	RADIUS
REBAR	REINFORCING BAR
REF.	REFERENCE or REFER TO
RCP	REFLECTED CEILING PLAN
RE:	REGARDING
REFG	REFRIGERATOR
REINF	REINFORCE or REINFORCING
REQD	REQUIRED
R.	RISER (STAIR)
RWS	ROLLING WINDOW SHADES
RD	ROOF DRAIN
RO	ROUGH OPENING

S

SIM.	SIMILAR
SC	SOLID CORE
SAB	SOUND ATTENUATION BLANKET
SAFB	SOUND ATTENUATION FIRE BLANKET
STC	SOUND TRANSMISSION CLASS
SPEC	SPECIFICATION
SQ	SQUARE
SF	SQUARE FOOT
SS	STAINLESS STEEL
STRUC.	STRUCTURAL
SUSP.	SUSPENDED

T

TB	TACKBOARD
TS	TACKSTRIP
TW	TACK WALL
TC	TEACHER'S CABINET
TAS	TEXAS ACCESSIBILITY STANDARDS
T.	TREAD (STAIR)
T&B	TOP & BOTTOM
TO.	TOP OF
TC	TOP OF CURB
TOD	TOP OF DECK
TOJ	TOP OF JOIST
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP.	TYPICAL

U / V

U/C	UNDER COUNTER
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
VERT	VERTICAL
VCT	VINYL COMPOSITION TILE
VWC	VINYL WALL COVERING

W / X / Y / Z

WC	WATER CLOSET
WRB	WATER-RESISTIVE BARRIER
WT	WEIGHT
W	WIDE
W/	WITH
W/O	WITHOUT
WP	WORKING POINT
WWF	WELDED WIRE FABRIC

SYMBOLS LEGEND

ROOM NAME 101 — ROOM NAME & NUMBER

101 — DOOR NUMBER

AC — ACCESS CONTROL

X — SIGNAGE

HB — HORIZONTAL BLINDS

1 — DEMO/PLAN NOTE

XXX-01 — ROOF TYPE

XXX-01 — ASSEMBLY TYPE

1/ A101 — DETAIL SECTION

X1 — PLUMBING TAG

1 / A101 — BUILDING SECTION

1 / A101 — WALL SECTION

1 / A101 — CALLOUT HEAD

SFX — ALUMINUM-FRAMED GLAZED OPENING SYSTEM

GO — HOLLOW METAL-FRAMED GLAZED OPENING SYSTEM

X1 — PARTITION TYPE

X1 — TOILET ACCESSORY/ SPECIALTY EQUIPMENT

X1 — PLUMBING FIXTURE

XXX-01 — FLOOR TYPE

11 1' - 0" — CEILING TYPE & HEIGHT

Type X-X / X HR — FIRE RESISTANCE

←C→ — FLOOR TRANSITION

A101 — BUILDING ELEVATION

1/ A101 — INTERIOR/ CASEWORK ELEVATION

N — PLAN NORTH/ TRUE NORTH

DATUM ELEVATION

MATERIAL LEGEND

EARTH	CERAMIC TILE
POROUS FILL	GLASS (LARGE SCALE)
CONCRETE/ GROUT	INSULATION (RIGID FOAM BOARD)
BRICK	INSULATION (EPS FOAM BOARD)
CMU (LARGE SCALE)	INSULATION (BATT/ BLANKET)
MARBLE	INSULATION (SEMI-RIGID BOARD)
METAL (LARGE SCALE)	WOOD, ROUGH (CONTINUOUS)
METAL (SMALL SCALE)	WOOD, ROUGH (BLOCKING)
RESILIENT FLOORING	WOOD, FINISH
ACOUSTICAL TILE	PLYWOOD (LARGE SCALE)
TERRAZZO	FIBER CEMENT PANEL
PLASTER, SAND, GROUT, GYPSUM BOARD	METAL LATH
	GYPSUM BOARD

PROJECT INFORMATION

TDLR PROJECT REGISTRATION NUMBER: TABSXXXXXXXX

APPROXIMATE BUILDING AREAS

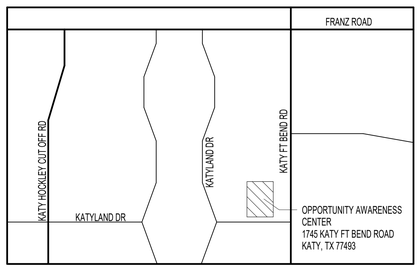
GROUND LEVEL AREA.:	19,851 S.F.
TOTAL BLDG AREA.:	19,851 S.F.
LEGAL DESCRIPTION:	LOT X BLOCK X

BUILDING CONSTRUCTION INFORMATION

TYPE OF CONSTRUCTION (TABLE 601 - IBC):	TYPE II-B
FIRE PROTECTION SYSTEM:	AUTOMATIC SPRINKLER SYSTEM THROUGHOUT

GENERAL NOTES

1. Refer to the CODE-series sheets tor Code Information, Design Criteria and Fire Protection Requirements.
2. Verify and document existing dimensions and conditions at the site before beginning construction. Notify the Architect of conflicts or variations prior to commencement of construction.
3. Based on the applicable design criteria, submit Shop Drawings of the proposed pattern of control joints in masonry veneer, CMU, gypsum board, plaster and stucco to the Architect for review and approval prior to construction.
4. In case of discrepancies in or between the Contract Documents, the greater quantity or better quality shall be bid. Clarifications regarding the discrepancies shall be requested from the Architect prior to construction, and the resulting interpretations implemented in accordance with the Contract Documents.



SITE LOCATION MAP

INDEX OF DRAWINGS

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CIVIL	
C0.00	COVER SHEET
C1.00	GENERAL NOTES
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C2.00	CLEARING AND GRUBBING PLAN
C3.00	SITE DIMENTION PLAN
C4.00	OVERALL SITE UTILITY PLAN
C5.00	SITE UTILITY PLAN
C6.00	STORM PLAN
C7.00	GRADING PLAN
C8.00	PAVING PLAN
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A7.31	GLAZING ASSEMBLY DETAILS
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TS5.11	SECURITY SCHEDULES

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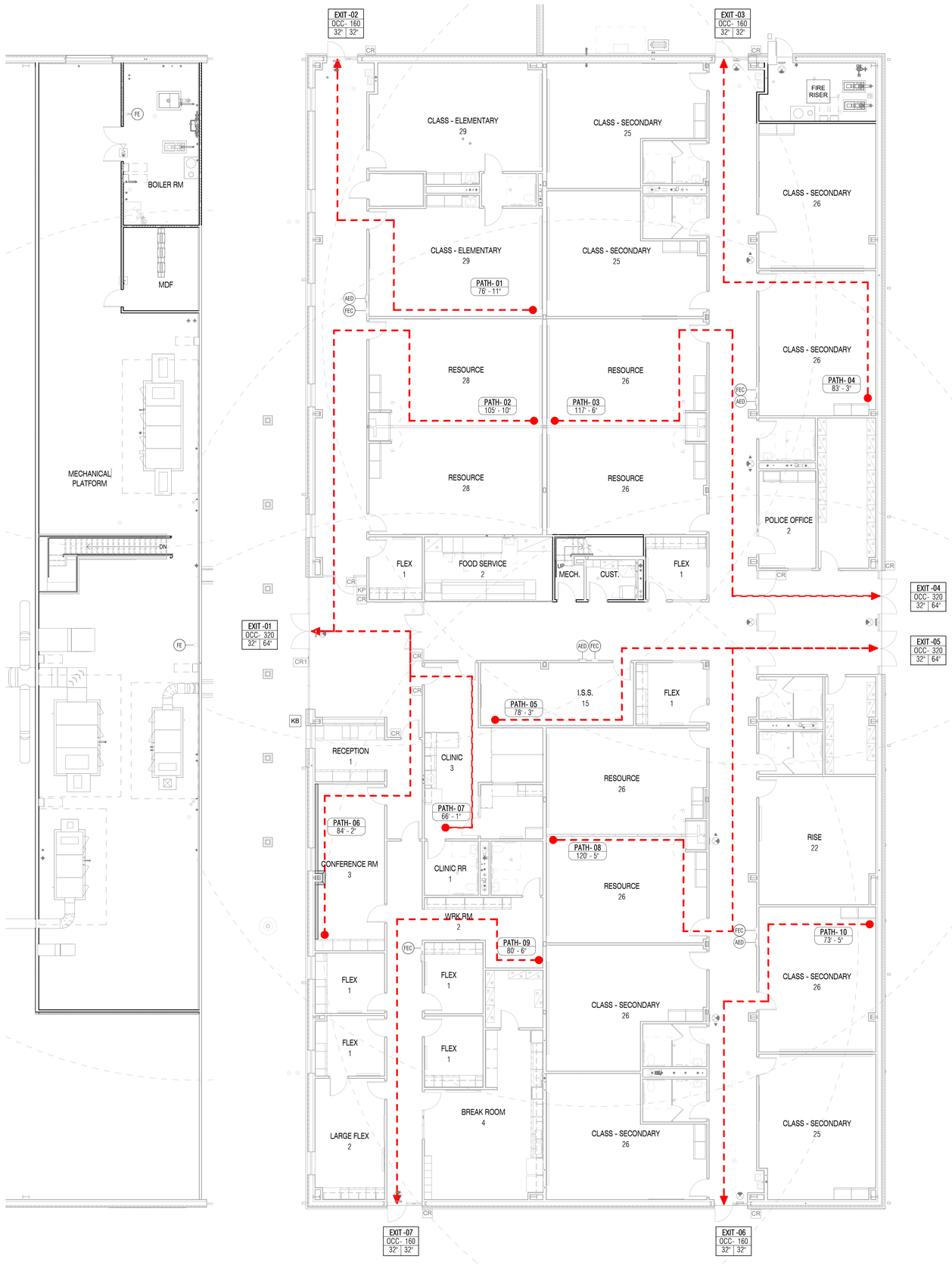
SHEET TITLE

INDEX, GENERAL NOTES AND ABBREVIATIONS

SHEET NO.

INDEX

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2 LIFE SAFETY FLOOR PLAN - MECHANICAL PLATFORM
SCALE: 1/8" = 1'-0"

1 OVERALL LIFE SAFETY FLOOR PLAN - LEVEL ONE
SCALE: 1/8" = 1'-0"

DESIGN CRITERIA

TYPE OF CONSTRUCTION		
Construction Classification (IBC Section 602):	Type II-B	
FIRE PROTECTION AND LIFE SAFETY SYSTEMS		
Fire Protection System (IBC Chapter 9):	Automatic Sprinkler NFPA 13	Portable Fire Extinguishers provided per IBC Section 906 & NFPA 10
APPROXIMATE BUILDING AREA		
Level One	19,851SF	
Mechanical Platform (not included in total building area per 505.3)	4,500 SF	
TOTAL BUILDING AREA:	**19,851 SF**	

BUILDING CODE REFERENCE	REQUIRED	PROVIDED
CHAPTER 3 - OCCUPANCY CLASSIFICATION AND USE		
Section 302 - OCCUPANCY CLASSIFICATION AND USE DESIGNATION		
Section 302.1 - Occupancy Classification	Educational: Group E (See Section 305)	
CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS		
Section 504 - BUILDING HEIGHTS AND NUMBER OF STORIES		
Table 504.3 - Height in Feet	75 Feet (Max.)	28 Feet
Table 504.4 - Number of Stories	3 Stories (Max.)	1 Stories

Section 505.3 - MECHANICAL PLATFORMS
Equipment platforms in buildings shall not be considered as a portion of the floor below. Such equipment platforms shall not contribute to either the building area or number of stories as regulated by Section 503.1. The area of the equipment platform shall not be included in determining the fire area. Equipment platforms shall not be a part of any mezzanine and such platforms and the walkways, stairs, alternating tread devices and ladders providing access to an equipment platform shall not serve as ...

Section 505.3.1 - AREA LIMITATION
The aggregate area of all equipment platforms within a room shall be not greater than two-thirds of the area of the rooom in...

	Maximum area of Mechanical Platform Allowed	**Area of Mechanical Platform Provided**
	19,851 x (2/3) = 13,234 SF	4,500 SF
Section 506 - BUILDING AREA		
Table 506.2 - Allowable Area Factor, one-story, fully-sprinklered	58,000 SF	19,851 SF
Section 509 - INCIDENTAL USES		
Table 509.1 Incidental Uses	**Room or Area**	**Separation and/or Protection**
	Furnace room where any piece of equipment is over 400,000 Btu per hour input	Automatic sprinkler system provided
	Rooms with boiler where the largest piece of equipment is over...	Automatic sprinkler system provided

Section 509.2 - PROTECTION
Where Table 509.1 permits an automatic sprinkler system without a fire barrier, the incidental uses shall be separated from the remainder of the building by construction capable of resisting the passage of smoke. The walls shall extend from the top of the foundation or floor assembly below to the underside of the ceiling that is a component of a fire-resistance-rated floor assembly or roof assembly above or to the underside of the floor or roof sheathing, deck or slab above. Doors shall be self- or authomatic-closing upon detection of smoke in accordance with Section 716.2.6.6. Doors shall not be undercut in excess of the clearance permitted in accordance with NFPA 80. Walls surrounding the incidental use shall not have air transfer openings unless provided with smoke dampers in accordance with Section 710.8.
Reference Sheets A6.11 and A7.01

CHAPTER 6 - TYPES OF CONSTRUCTION		
Section 601 - GENERAL		
Table 601 - Fire Resistance Rating Requirements for Building Elements	Construction Type II-B	
Primary Structural Frame	0-hours	0-hours
Bearing Walls - Exterior	0-hours	0-hours
Bearing Walls - Interior	0-hours	0-hours
Non-bearing Walls and Partitions - Exterior (see Table 705.5)	0-hours	0-hours
Non-bearing Walls and Partitions - Interior	0-hours	0-hours
Fire Barrier (see Section 707)	0-hours	0-hours
Floor Construction and Associated Secondary Structural Members	0-hours	0-hours
Roof Construction and Associated Secondary Structural Members	0-hours	0-hours
CHAPTER 10 - MEANS OF EGRESS		
Section 1004 - OCCUPANT LOAD		
Section 1004.1 - Design Occupant Load		**TOTAL = 208 Occupants**
Table 1004.5 - Maximum Floor Area Allowances per Occupant (Occupant Load) (refer to Life Safety Plan for Occupant Load per room)		Lev 1 = 481 Occupants
CHAPTER 29 - PLUMBING SYSTEMS		
Section 2902 - MINIMUM PLUMBING FACILITIES		
Table 2902.1 - Minimum Number of Required Plumbing Fixtures (using TEA Design Occupant Load)		
TEA Design Occupant Load (per TEA Guidelines Theoretical Maximum Capacity for Occupant Load)		**TOTAL = 208 Occupants**
Male Occupants (50% of Total)	104 Occupants	
Water Closets, incl. Urinals (1 per 50)	104/ 50 = 3 (Min.)	5
Urinals (incl. in Water Closet calculation; 67% Max. of Provided WC count)	*0.67 x 3 = 3 (Max.)*	*None Provided*
Lavatories (1 per 50)	104/ 50 = 3 (Min.)	5
Female Occupants (50% of Total)	104 Occupants	
Water Closets (1 per 50)	104/ 50 = 3 (Min.)	5
Lavatories (1 per 50)	104/ 50 = 3 (Min.)	5
Drinking Fountains (1 per 100)	208 / 100 = 3 (Min.)	3
Service Sinks	1 (Min.)	1

NOTES
Food Service: Food serving counters only; no student dining occurs in this space.

2021 IECC DESIGN CRITERIA

CLIMATE ZONE 2

TABLE C402.1.3 - OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS, U-FACTOR METHOD		
Roof - Metal Buildings	U-0.035	
Walls, above grade - Metal Buidings	U0.079	
Walls, below grade	N/A	
Floors, slab-on-grade	F-0.73	*not required to contain insulation
Opaque Doors, swinging	U-0.37	*in accordance with NFRC-100

NOTES
COMcheck analysis provided in supporting documentation.

LIFE SAFETY PLAN LEGEND

- EXIT ACCESS PATH
- EXIT ACCESS PATH NUMBER / TRAVEL DISTANCE → PATH-00 / Length — EXIT ACCESS PATH NUMBER & TRAVEL DISTANCE
- EXIT DOOR NUMBER / NUMBER OF OCCUPANTS THRU EXIT / EGRESS WIDTH REQUIRED/PROVIDED → EXIT -00 / OCC- ## / XX" XX" — MEANS OF EGRESS EXIT AT DOOR (w/ Occupant Load)
- ROOM NAME / OCCUPANT LOAD → ROOM NAME / # — ROOM NAME & OCCUPANT LOAD
- FEC — FIRE EXTINGUISHER W/ CABINET & BRACKET
- FE — FIRE EXTINGUISHER W/ BRACKET
- KB — KNOX BOX
- FIRE RISER — FIRE RISER LOCATION
- Smoke Rated Partition, Ref. A6.11

NOTES:
1. All CODE1 sheets to be printed in color.

APPLICABLE CODES

2021 International Building Code w/ City of Katy Amendments
2021 International Fire Code w/ City of Katy Amendments
2021 International Plumbing Code w/ City of Katy Amendments
2021 International Mechanical Code w/ City of Katy Amendments
2023 National Electrical Code w/ City of Katy Amendments
2021 International Energy Conservation Code
2012 Texas Accessibility Standards
NFPA 101 Life Safety Code
NOTES
Ordinance 3116, adopted 10-23-23

OCCUPANCY TABULATION - PER IBC 2021

ROOM NUMBER	ROOM NAME	FLOOR AREA	OCCUPANCY	FLOOR AREA PER OCCUPANT	OCCUPANT LOAD
BUSINESS					
101	CLINIC	385 SF	BUSINESS	150	3
101B	CLINIC RR	86 SF	BUSINESS	150	1
103	FOOD SERVICE	238 SF	BUSINESS	150	2
202	FLEX	131 SF	BUSINESS	150	1
301	POLICE OFFICE	165 SF	BUSINESS	150	2
302	FLEX	114 SF	BUSINESS	150	1
401	FLEX	99 SF	BUSINESS	150	1
A100A	RECEPTION	117 SF	BUSINESS	150	1
A100B	WRK RM	199 SF	BUSINESS	150	2
A102	CONFERENCE RM	342 SF	BUSINESS	150	3
A103	FLEX	125 SF	BUSINESS	150	1
A104	FLEX	124 SF	BUSINESS	150	1
A105	FLEX	123 SF	BUSINESS	150	1
A106	FLEX	124 SF	BUSINESS	150	1
A107	LARGE FLEX	248 SF	BUSINESS	150	2
A108	BREAK ROOM	484 SF	BUSINESS	150	4
		3103 SF			27
ED, CLASSROOM					
102	I.S.S.	284 SF	ED, CLASSROOM	20	15
204	RESOURCE	506 SF	ED, CLASSROOM	20	26
205	RISE	438 SF	ED, CLASSROOM	20	22
206	RESOURCE	513 SF	ED, CLASSROOM	20	26
207	CLASS - SECONDARY	501 SF	ED, CLASSROOM	20	26
208	CLASS - SECONDARY	501 SF	ED, CLASSROOM	20	26
211	CLASS - SECONDARY	494 SF	ED, CLASSROOM	20	25
214	CLASS - SECONDARY	501 SF	ED, CLASSROOM	20	26
304	RESOURCE	511 SF	ED, CLASSROOM	20	26
305	CLASS - SECONDARY	501 SF	ED, CLASSROOM	20	26
306	RESOURCE	510 SF	ED, CLASSROOM	20	26
308	CLASS - SECONDARY	493 SF	ED, CLASSROOM	20	25
309	CLASS - SECONDARY	501 SF	ED, CLASSROOM	20	26
313	CLASS - SECONDARY	497 SF	ED, CLASSROOM	20	25
402	RESOURCE	554 SF	ED, CLASSROOM	20	28
403	RESOURCE	554 SF	ED, CLASSROOM	20	28
404	CLASS - ELEMENTARY	577 SF	ED, CLASSROOM	20	29
405	SENSORY	53 SF	ED, CLASSROOM	20	3
406	CLASS - ELEMENTARY	567 SF	ED, CLASSROOM	20	29
		9056 SF			463
GRAND TOTAL		12160 SF			490

VLK

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Katy ISD
Katy, TX

NEW OPPORTUNITY AWARENESS CENTER

REGISTERED ARCHITECT CHARLES W. JOHNSON 20944 STATE OF TEXAS
05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	MCA / LMR

PROJECT NO.
25-0067.00

SHEET TITLE
CODE REVIEW, BUILDING DESIGN CRITERIA & DIAGRAMS

SHEET NO.
CODE1.1

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CONSTRUCTION PLAN FOR PRIVATE WATER, SANITARY SEWER, STORM SEWER AND PAVING

TO SERVE

"NEW OPPORTUNITY AWARENESS CENTER"

1745 KATY FORT BEND ROAD, KATY, TX 77493

(PROJECT LOCATED WITHIN THE CITY OF KATY AND INSIDE HARRIS COUNTY)

JOB No.: 207-25-005-01 DATE: MAY 2026

Katy Independent School District

STOP - CALL BEFORE YOU DIG!!

CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITY LINES BY CONTACTING "TEXAS ONE CALL" AT 1-800-245-4545 AT LEAST 48 HOURS BEFORE YOU DIG, DRILL OR BLAST.

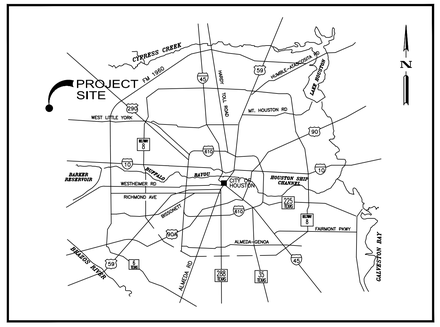
EXISTING, WATER, SANITARY, GAS, ELECTRICAL, TELECOMMUNICATIONS AND ALL OTHER UTILITY LINES ARE SHOWN PER RECORD DRAWINGS. CONTRACTOR SHALL VERIFY LOCATION AT THE SITE PRIOR TO CONSTRUCTION.

THE CONTRACTOR(S) SHALL NOTIFY CITY OF KATY PERMITS AND INSPECTIONS DEPARTMENT OFFICE FORTY-EIGHT (48) HOURS IN ADVANCE OF COMMENCING UTILITY AND/OR PAVING CONSTRUCTION AT (281) 391-4830 AND WRITTEN NOTIFICATION FORTY-EIGHT (48) HOURS IN ADVANCE OF COMMENCING CONSTRUCTION AT 901 AVENUE C, KATY, TX 77493.

ALL CONTRACTORS MUST PROVIDE THE CITY OF KATY WITH A CERTIFICATE OF GENERAL LIABILITY INSURANCE. CERTIFICATE MUST BE FAXED OR EMAILED DIRECTLY FROM THE INSURANCE COMPANY TO THE CITY. CITY OF KATY FAX NUMBER IS 281-391-4834 AND EMAIL IS katypermits@cityofkaty.com. THE INSURANCE MUST LIST AS CERTIFICATE HOLDER THE CITY OF KATY, PERMITS DEPT., P.O. BOX 617 KATY, TX 77492.

AUTHORIZATION NOTICE ISSUED BY CITY OF KATY ENGINEERING REQUIRED PRIOR TO CONSTRUCTION OF UTILITIES OR LEFT TURN LANES WITHIN CITY OF KATY PUBLIC RIGHTS-OF-WAY.

CONTRACTOR AND OWNER SHALL COMPLY WITH THE REGULATIONS OF CITY OF KATY AND WALLER COUNTY, TEXAS FOR FLOOD PLAIN MANAGEMENT.


PROJECT SITE
CYPRESS CREEK
FM 1960
WEST LITTLE YORK
WESTHEIMER RD
RICHMOND AVE
BUFFALO SPEEDWAY
BAYOU
CITY OF HOUSTON
WEST BELT
WEST LOOP
WEST BELT
WEST LOOP
WEST BELT
WEST LOOP

GENERAL CONSTRUCTION NOTES

SEC. 10.05.002 STREET PAVING:

THE FOLLOWING MINIMUM STANDARDS APPLY TO SUBDIVISION STREET PAVING:

(1) TYPE. REINFORCED CONCRETE SURFACE WITH CONCRETE CURB AND GUTTER.

(2) PAVEMENT WIDTH.

(A) MAJOR STREETS: FORTY–FOUR FEET (44') TO SIXTY–FOUR FEET (64') BETWEEN BACK OF CURBS.

(B) SECONDARY STREETS: THIRTY–EIGHT FEET (38') TO FORTY–FOUR FEET (44') BETWEEN BACK OF CURBS.

(C) RESIDENTIAL STREETS: TWENTY–EIGHT FEET (28') TO THIRTY–TWO FEET (32') BETWEEN BACK OF CURBS.

(3) CROSS–SECTION. A STANDARD CROSS–SECTION FOR A RESIDENTIAL STREET IS SHOWN IN FIGURE I. CROSS–SECTIONS FOR SECONDARY AND MAJOR STREETS SHALL BE PROPORTIONED SIMILARLY. AT INTERSECTIONS, CURB RETURN RADIUS SHALL BE TWENTY–FIVE FEET (25'); AT CUL–DE–SACS, FORTY–FIVE FEET (45').

(4) CONCRETE.

(A) REINFORCING STEEL.

(i) MATERIAL: OPEN HEARTH NEW BILLET STEEL.

(ii) YIELD STRENGTH: 60,000 PSI, MINIMUM.

(iii) SPLICES: TWENTY–FOUR (24) BAR DIAMETERS.

(iv) BAR SIZE AND SPACING: NO. 3 BARS AT EIGHTEEN INCH (18") CENTERS, EACH WAY, MINIMUM. STREET SHOULD BE DESIGNED BASED UPON THE SUBGRADE AND LOAD USE OF STREET.

(v) BAR SUPPORT: METAL OR PLASTIC "CHAIRS" SHALL BE USED TO HOLD BARS IN POSITION DURING PLACEMENT OF CONCRETE.

(B) CONCRETE MIXTURE.

(i) COMPRESSIVE STRENGTH: 3,000 PSI, MINIMUM AT TWENTY–EIGHT (28) DAYS.

(ii) SLUMP: FOUR AND ONE–HALF INCHES (4–1/2") MAXIMUM.

(iii) CEMENT FACTOR: 5.0 BAGS PER CUBIC YARD, MINIMUM.

(C) CEMENT. TYPE I (NORMAL) PORTLAND CEMENT, OR WITH CITY ENGINEER'S APPROVAL, TYPE III (HIGH EARLY STRENGTH).

(D) AGGREGATE. COARSE AND FINE AGGREGATE SHALL MEET THE REQUIREMENTS OF TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION "ITEM 360" FOR CONCRETE PAVEMENT.

(E) JOINTING.

(i) EXPANSION JOINTS WITH SLEEVED LOAD TRANSMISSION DOWELS: AT INTERSECTIONS. ALSO EVERY EIGHTY (80) LINEAR FEET, MINIMUM.

(ii) WOOD JOINTS: SOUND HEART REDWOOD.

(iii) JOINT SEAL: QA 90 ASPHALT OR OTHER TYPES WITH APPROVAL.

(F) CURING. CURING METHOD SHALL RETAIN AT LEAST NINETY–SEVEN PERCENT (97%) OF MOISTURE AT TWENTY–FOUR (24) HOURS, AT LEAST NINETY–FIVE PERCENT (95%) AT THREE (3) DAYS, AND AT LEAST NINETY–ONE PERCENT (91%) AT SEVEN (7) DAYS. (ASTM PROCEDURE C–5)

(G) TESTS. COMPRESSIVE STRENGTH: THREE (3) CYLINDERS PER TWO HUNDRED (200) LINEAR FEET.

(H) PLACEMENT. CONCRETE SHALL NOT BE PLACED ON FROZEN SUBGRADE; WHEN AIR TEMPERATURE IS THIRTY–EIGHT (38) DEGREES F OR BELOW; WHEN AIR TEMPERATURE IS BELOW FORTY–TWO (42) DEGREES F AND DECLINING; WHEN FINISHING CANNOT BE COMPLETED DURING NATURAL DAYLIGHT.

(5) SUBGRADE.

(A) ROLLING MACHINERY: ALL SUBGRADE SHALL BE ROLLED.

(B) DENSITY REQUIRED: AT LEAST NINETY–FIVE PERCENT (95%) OF MAXIMUM DENSITY (STANDARD PROCTOR DENSITY TEST).

(C) LIME STABILIZATION: REQUIRED WHEN PLASTICITY INDEX (P.I.) OF SUBGRADE SOIL EXCEEDS 18.

(D) CEMENT STABILIZATION: REQUIRED WHEN LOW P.I. "SPONGY" OR WET SOILS ARE ENCOUNTERED.

(E) SUBGRADE SHALL NOT BE ALLOWED TO DRY BEFORE CONCRETE OR BASE IS PLACED, NOR SHALL CONCRETE OR BASE BE PLACED ON FROZEN SUBGRADE.

(F) DENSITY TESTS: AT TWO HUNDRED (200) LINEAR FEET INTERVALS, OR CLOSER WHEN REQUESTED BY CITY ENGINEER. DENSITY TESTS SHALL BE "STAGGERED" ACROSS THE WIDTH OF THE PAVEMENT. AT NO POINT SHOULD DENSITY TEXTS BE TAKEN IN A STRAIGHT LINE. AT LEAST ONE DENSITY TEST MUST BE TAKEN ON THE OUTSIDE EDGE OF THE PAVEMENT IN CULDE–SACS.

SEC. 10.05.003 SIDEWALKS:

SIDEWALKS SHALL MEET THE FOLLOWING MINIMUM STANDARDS.

(1) DIMENSIONS.

(A) WIDTH: FOUR FEET (4'), ZERO INCHES (0"), MINIMUM.

(B) THICKNESS: ZERO FEET (0'), FOUR INCHES (4"), MINIMUM.

(2) SUBGRADE. TWO INCHES (2") OF COMPACTED SAND.

(3) CROSS SLOPE. ONE–FOURTH INCH (1/4") PER FOOT, TOWARD CURB. SLOPES ON SIDEWALKS MUST BE ADA COMPLIANT.

(4) REINFORCING SHALL BE #3 REBAR AT NO GREATER THAN 18" C–C OR #6 6 X 6 WELDED WIRE MESH SUPPORTED BY EITHER CHAIRS OR C.M.U. BRICKS.

(5) LOAD TRANSMISSION DEVICES (DOWELS) SHALL BE #4 REBAR, 12" LONG, EMBEDDED 6" EITHER SIDE OF EXPANSION JOINT, ONE END SHALL BE SLEEVED. SET LOAD TRANSMISSION DEVICES 12" C–C, MAXIMUM.

(6) EXPANSION JOINTS ARE TO BE SPACED 10' C–C AND ARE TO BE SOUND HEART REDWOOD, 3/4" THICK WITH QA 90 ASPHALT OR APPROVED SEAL.

(7) CONTROL JOINTS ARE TO BE CUT (1/4" X 1/2") AT NO GREATER THAN 5' C–C SPACING.

(8) LOCATION. AS PER FIGURE I FOLLOWING SUBSECTION 10.05.002(3).

(ORDINANCE 2874, EX. A, ADOPTED 10/22/18)

SEC. 10.05.004 WATER SYSTEM:

THE FOLLOWING MINIMUM STANDARDS APPLY TO WATER SYSTEM EXTENSIONS WITHIN THE CITY:

(1) MAIN LINES.

(A) MINIMUM DIAMETER: SIX INCHES (6").

(B) DEPTH: THREE FEET (3'), SIX INCHES (6") OF COVER BELOW FINAL GRADE.

(C) MATERIAL: C–900 PVC DR 18.

(D) LOCATION: AS PER FIGURE I [FOLLOWING SUBSECTION 10.05.002(3)]. MAINS SHALL BE LOOPED, WITH NO DEAD–ENDS SERVING MORE THAN FOUR (4) LOTS.

(E) MAINS SHALL BE LOOPED WITH NO DEAD–ENDS SERVING MORE THAN 4 LOTS.

(F) TRACER WIRE SHALL BE LAID (CONTINUOUS) ON TOP OF PIPE AND UP THROUGH EVERY VALVE BOX.

(2) VALVES.

(A) LOCATIONS: AT TEES – TWO (2) VALVES. AT CROSSES – THREE (3) VALVES. AT EACH CONNECTION TO EXISTING WATER SYSTEM – ONE (1) VALVE.

(B) TYPE: NON–RISING STEM, O–RING SEALS, MUELLER OR CLOW BRAND. COUNTERCLOCKWISE OPENING, MECHANICAL JOINT.

(3) FIRE HYDRANTS.

(A) LOCATIONS: AT EACH STREET INTERSECTION AND CUL–DE–SAC END. SINGLE–FAMILY RESIDENTIAL AREAS: SIX HUNDRED FOOT (600') INTERVALS, MAXIMUM. COMMERCIAL, INCLUDING RESERVES: THREE HUNDRED FOOT (300') INTERVALS, MINIMUM.

(B) TYPE: MUELLER BRAND, 3–WAY 5–1/4" BARREL WITH 4–1/2" STEAMER (PUMPER) NOZZLE AND TWO (2) 2–1/2 INCH HOSE NOZZLES. COUNTERCLOCKWISE OPENING, MECHANICAL JOINT. EACH FIRE HYDRANT IS TO HAVE AN INDIVIDUAL GATE VALVE (WITH ADJUSTABLE RISER BOX) LOCATED WITHIN 4 FEET OF THE FIRE HYDRANT.

(4) FITTINGS.

(A) MATERIAL: CAST IRON, CEMENT LINED, MECHANICAL JOINT. ALL FITTINGS ARE TO BE THRUST BLOCKED WITH CONCRETE. ALL FITTINGS ARE TO BE WRAPPED WITH PLASTIC OR SIMILAR MATERIALS TO PREVENT CONCRETE FROM ADHERING TO THE MECHANICAL JOINT CONNECTION COMPONENTS.

(B) PRESSURE RATING: 250 PSI.

(5) SERVICES.

(A) CORPORATION STOP: MUELLER H–15000 (FLARE) OR H–15008 (COMPRESSION).

(B) CURB STOP: MUELLER B25168 (FLARE) OR B25170 (COMPRESSION), ENDING IN AN APPROVED CONCRETE OR PLASTIC METER BOX. (ALL BOXES IN NEW DEVELOPMENT ARE TO BE OF THE SAME MATERIAL.)

(C) METER NIPPLE REQUIRED: MUELLER H–10896.

(D) PIPE MATERIAL: SOFT COPPER.

(E) SIZE: 1", ONE PER EACH RESIDENTIAL LOT.

(F) CONCRETE OR PLASTIC METER BOX OF APPROPRIATE SIZE IS REQUIRED.

(G) ALL CURBS ARE TO BE MARKED TO INDICATE THE LOCATION OF THE WATER SERVICES FOR EACH INDIVIDUAL LOT.

(H) TAP AND SLEEVE, MULLER OR SMITH & BLAIR (STAINLESS STEEL BAND AND BOLTS, EPOXY COATED SADDLE).

(I) SENSUS RADIO READ METERS WITH MXU ASSEMBLY.

(6) BACKFILL.

(A) UNDER STREETS: WRAP WATER LINE WITH 6" LAYER OF BANK SAND, REMAINDER OF TRENCH TO BE FILLED WITH 1.0 SACK (100 PSI) PER CUBIC YARD CEMENT STABILIZED SAND, COMPACTED TO 95% PROCTOR.

(B) OTHER LOCATIONS: WRAP WATER LINE WITH A 6" LAYER OF BANK SAND, REMAINDER OF TRENCH TO BE FILLED USING COMPACTED NATIVE SOIL. SANDY SOIL MUST BE WATER JETTED; OTHER SOILS MAY BE COMPACTED BY ROLLING WITH A "CATERPILLAR" TRACTOR OR SIMILAR METHOD.

(C) ALL TRENCHES ARE TO BE COMPACTED TO 95% STANDARD PROCTOR.

(1999 CODE, SEC. 9.504)

SEC. 10.05.005 SANITARY SEWER SYSTEM:

ALL HOMES MUST BE CONNECTED TO THE CITY'S CENTRAL SANITARY SEWER SYSTEM. THE FOLLOWING MINIMUM STANDARDS APPLY TO SANITARY SEWER EXTENSIONS WITHIN THE CITY:

(1) MAIN LINES.

(A) MINIMUM DIAMETER: SIX INCHES (6").

(B) MINIMUM DEPTH: FOUR FEET (4'), ZERO INCHES (0"). EXCEPTIONS MAY BE MADE ON DEPTH WITH CITY PUBLIC WORKS DIRECTOR APPROVAL.

(C) MATERIAL:

(i) PIPE: SDR 26 PVC.

(ii) FITTINGS: SAME CLASS AS PIPE, WITH RUBBER GASKETS.

ALL SANITARY SEWER LINES MUST BE AIR TESTED AND PASS DEFLECTION TESTING 30 DAYS (OR LONGER) AFTER INSTALLATION. THE CITY RESERVES THE RIGHT TO REQUIRE FILMING OF ANY SEWER INSTALLATION, AT THE DEVELOPER'S EXPENSE.

(2) MANHOLES.

(A) SIZE:

(i) FOUR FEET (4'), ZERO INCHES (0") INSIDE DIAMETER.

(ii) THIRTY–TWO INCH (32") DIAMETER OPENING IN CONE SECTION FOR ACCESS TO THE SANITARY SEWER FOR CLEANING AND MAINTENANCE.

(B) SPACING: THREE HUNDRED FEET (300') MAXIMUM AND AT CHANGES IN DIRECTION OR SIZE OF MAIN LINE.

(C) MATERIAL:

(i) PRE–CAST CONCRETE MANHOLE MEETING ASTM C478 (LATEST REVISION).

(ii) CAST–IN–PLACE MANHOLES SHALL BE 4000 PSI CONCRETE WITH WALL THICKNESS OF NO LESS THAN FIVE INCHES (5"). THE BASE SHALL BE NO LESS THAN TWELVE INCHES (12") THICK.

(D) PIPE CONNECTION: EACH PIPE CONNECTION TO SANITARY SEWER MANHOLES SHALL BE MADE WATERTIGHT BY EITHER:

(i) APPROVED FLEXIBLE CONNECTORS; OR

(ii) WATERTIGHT GROUT.

(E) FOUNDATIONS: PLACE MANHOLE BASE ON TWELVE INCHES (12") MINIMUM OF COMPACTED CEMENT STABILIZED SAND.

(F) MANHOLE RING AND LID:

(i) INSTALL THIRTY–TWO INCH (32") DIAMETER CAST IRON RING USING APPROVED SEALANT.

(ii) IN PAVEMENT: ADJUST RING AND COVER TO GRADE. (THE CITY MAY REQUIRE INFILTRATION PREVENTION MEASURES, TO BE DECIDED ON A CASE–BY–CASE BASIS. IF THEY ARE REQUIRED THE DEVELOPER MUST PAY FOR THEM.)

(iii) IN UNPAVED AREAS: ADJUST RING AND COVER TO AT LEAST SIX INCHES (6") ABOVE SURROUNDING GRADE, SLOPING GRADE AWAY FROM THE MANHOLE.

(iv) MANHOLE LID IS TO HAVE "SANITARY SEWER" CAST INTO IT. NO OTHER REFERENCE IS TO BE CAST INTO THE LID.

(3) SERVICES.

(A) MINIMUM SIZES:

(i) RESIDENTIAL: SINGLE SERVICE – FOUR INCHES (4"); DOUBLE SERVICE – SIX INCHES (6").

(ii) COMMERCIAL: SIX INCH (6") MINIMUM.

(B) MATERIAL: SCH. 40 OR SDR 26 PVC.

(C) FITTINGS REQUIRED: WYE, BEND, AND PLUG.

(D) STACK REQUIRED: WHERE SEWER DEPTH EXCEEDS SIX FEET (6'), ZERO INCHES (0").

(E) MARKING: "AS BUILT" PLANS REQUIRED SHOWING LOCATIONS, WITH 4" X 4" OAK TIMBER MARKING EACH SERVICE AND EXTENDING TWO FEET (2') ABOVE GROUND. PAINTED WITH A BRIGHT COLOR PAINT. (CAPPED FOUR INCH (4") DIAMETER PVC PIPE MAY BE USED IN LIEU OF THE OAK TIMBER.) CURB IS TO BE MARKED TO INDICATE THE LOCATION OF THE SANITARY SEWER SERVICE.

(F) BEDDING: CEMENT–STABILIZED SAND (ONE SACK PER CUBIC YARD). THICKNESS TO BE ONE–HALF (1/2) OF THE PIPE DIAMETER BENEATH THE PIPE (IN NO CASE LESS THAN 6" THICKNESS) AND TO THE CENTERLINE OF THE PIPE.

(4) BACKFILL. SAME AS FOR WATER SYSTEMS.

(5) LOCATION. EXCEPT IN UNUSUAL CIRCUMSTANCES AND AFTER RECOMMENDATION BY THE CITY ENGINEER AND APPROVAL OF CPZ, SANITARY SEWER MAINS SHALL BE LOCATED IN FRONT OF LOTS. THEY SHALL BE PLACED WITHIN STREET RIGHTS–OF–WAY OPPOSITE WATER MAINS. IF AUTHORIZED TO BE PLACED AT REAR OF LOT, MAINS SHALL BE NO CLOSER THAN FIVE FEET (5') TO THE EASEMENT BOUNDARY.

(1999 CODE, SEC. 9.505)

SEC. 10.05.006 DRAINAGE:

(a) THE FOLLOWING MINIMUM STANDARDS APPLY TO DRAINAGE CONSTRUCTION WITHIN NEW SUBDIVISIONS.

(1) STORM SEWERS AND CULVERTS.

(A) MINIMUM DIAMETER: TWENTY–FOUR INCHES (24"); EIGHTEEN INCHES (18") FOR PIPE SERVING ONE (1) INLET.

(B) MINIMUM SLOPE: STORM SEWERS – 0.1% CULVERTS SHORTER THAN ONE HUNDRED FEET (100') – 0.1 FOOT.

(C) MATERIAL:

(i) CLASS III REINFORCED CONCRETE PIPE.

(ii) HIGH DENSITY POLYETHYLENE (HDPE) CORRUGATED SMOOTH LINED THERMOPLASTIC PIPE MAY BE USED WHEN APPROVED BY THE CITY ENGINEER.

(iii) TEXAS DEPARTMENT OF TRANSPORTATION STANDARD BOX CULVERTS AND HEADWALLS.

(D) JOINTS:

(i) CLASS III REINFORCED CONCRETE PIPE: BELL AND SPIGOT JOINTS WITH "O" RING TYPE GASKETS.

(ii) HIGH DENSITY POLYETHYLENE PIPE: BELL AND SPIGOT JOINTS WITH "O" RING TYPE GASKETS.

(iii) BOX CULVERTS: "RAM–NEK" TYPE ASPHALTIC SEALER OR APPROVED EQUAL WITH JOINTS TO MEET TEXAS DEPARTMENT OF TRANSPORTATION SPECIFICATION.

(E) BEDDING: ALL STORM SEWER IS TO BE BEDDED WITH ONE AND ONE–HALF (1–1/2) SACK PER CUBIC YARD OF CEMENTSTABILIZED SAND, COMPACTED TO TWELVE INCHES (12") THICKNESS, MINIMUM.

(F) BACKFILL: ALL STORM SEWER PIPING SHALL BE BACKFILLED TO A MINIMUM OF TWELVE INCHES (12") OVER THE TOP OF THE PIPE WITH ONE AND ONE–HALF (1–1/2) SACK PER CUBIC YARD CEMENT–STABILIZED SAND, COMPACTED BY MECHANICAL MEANS. WHEN USING HDPE PIPE, CAUTION SHALL BE TAKEN TO INSURE PROPER BEDDING AND BACKFILL TO MEET THE MANUFACTURER'S RECOMMENDATIONS TO PROVIDE THE STRUCTURAL SUPPORT NECESSARY.

(G) JUNCTION BOXES AND MANHOLES:

(i) SIZE: NOMINAL PIPE SIZE PLUS TWELVE INCHES (12").

(ii) MATERIAL: REINFORCED CONCRETE, DESIGNED FOR THE LOAD. MINIMUM WALL THICKNESS – 5".

(iii) LOCATION:

a. AT CHANGES IN PIPE SIZE OR DIRECTION.

b. AT DISTANCES NOT TO EXCEED FOUR HUNDRED FEET (400').

(iv) ACCESS COVERS: TWENTY–FOUR INCH DIAMETER CAST IRON RING AND COVER WITH THE WORD "STORM" CAST INTO THE COVER.

(H) INLETS:

(iw) MINIMUM THROAT SIZE: SIX INCHES (6") HIGH BY FIVE FEET (5') LONG.

(ii) MATERIAL: REINFORCED CONCRETE, DESIGNED FOR LOAD.

(iii) WALL THICKNESS: FIVE INCHES (5").

(iv) ACCESS: TWENTY–FOUR INCH DIAMETER CAST IRON RING AND COVER (SEE SUBSECTION (G)(IV) ABOVE).

(I) TRENCH DRAINAGE: "TRENCH DRAINS" ARE ALLOWED ONLY IN THE OLD KATY DISTRICT OKD) ZONING DISTRICT.

(ORDINANCE 2863 ADOPTED 8/27/18)

(2) OPEN CHANNELS.

(A) UNLINED DITCHES: SIDE SLOPES – THREE (3) HORIZONTAL, ONE (1) VERTICAL. BOTTOM SLOPE – 0.05% MINIMUM. EASEMENT WIDTH – TOP WIDTH PLUS SIXTEEN FEET (16') ON ONE (1) SIDE PLUS SIX FEET (6') ON OTHER SIDE.

(B) LINED CHANNELS: BOTTOM SLOPE – 0.05% MINIMUM. LINING MATERIAL – FIVE INCH (5") THICK CONCRETE WITH #3 BARS AT EIGHTEEN INCHES (18") CENTER TO CENTER. WITH APPROVAL OF THE CITY, PRE–CAST CONCRETE PAVEMENT MAY BE USED IN LIEU OF CONCRETE. CONCRETE CHARACTERISTICS – SAME AS FOR STREET PAVING. EASEMENT WIDTH – TOP WIDTH PLUS TWELVE FEET (12') ON ONE (1) SIDE AND FOUR FEET (4') ON THE OTHER SIDE.

(3) DESIGN CRITERIA.

(A) STORM PERIOD: TWENTY–FIVE (25) YEARS.

(B) RUNOFF COEFFICIENT:

(i) SINGLE–FAMILY RESIDENTIAL AREAS: FIFTY PERCENT (50%).

(ii) COMMERCIAL AREAS: EIGHTY PERCENT (80%).

(1999 CODE, SEC. 9.506)

(b) THE FOLLOWING MINIMUM STANDARDS APPLY TO ALL DRAINAGE CONSTRUCTION WITHIN THE ADDICKS RESERVOIR WATERSHED, BARKER RESERVOIR AND CYPRESS CREEK WATERSHED UPSTREAM OF US 290.

(1) HARRIS COUNTY FLOOD CONTROL DISTRICT'S "SUPPLEMENTAL GUIDELINES AND CRITERIA FOR DEVELOPING IN THE ADDICKS RESERVOIR WATERSHED, BARKER RESERVOIR WATERSHED, AND CYPRESS CREEK WATERSHED UPSTREAM OF US 290," DATED MARCH 2016.

(2) HARRIS COUNTY FLOOD CONTROL DISTRICT'S POLICY AND PROCEDURES MANUAL.

(3) WHERE THERE IS A CONFLICT WITH THE HARRIS COUNTY FLOOD CONTROL DISTRICT'S POLICY AND PROCEDURES MANUAL AND OR THE HARRIS COUNTY FLOOD CONTROL DISTRICT'S "SUPPLEMENTAL GUIDELINES AND CRITERIA FOR DEVELOPING IN THE ADDICKS RESERVOIR WATERSHED, BARKER RESERVOIR WATERSHED, AND CYPRESS CREEK WATERSHED UPSTREAM OF US 290," DATED MARCH 2016 AND THE CRITERIA OF ANOTHER GOVERNMENTAL ENTITY THAT HAS REGULATORY AUTHORITY OVER THE DRAINAGE CONSTRUCTION, THE MORE RESTRICTIVE CRITERIA SHALL APPLY.

(4) ALL CITY OF KATY DRAINAGE CRITERIA NOT IN CONFLICT WITH THIS PROVISION SHALL REMAIN UNCHANGED UNLESS THE CITY OF KATY HAS SPECIFICALLY EXEMPTED THE APPLICATION OF THIS PROVISION TO THE CRITERIA.

(ORDINANCE 2863 ADOPTED 8/27/18)

SEC. 10.05.007 STREET SIGNS:

FOR UNIFORMITY, STREET SIGNS SHALL BE ORDERED THROUGH THE CITY. COST OF THE SIGNS AND ERECTION ARE THE RESPONSIBILITY OF THE DEVELOPER. SIGNS ARE REQUIRED AT EACH STREET INTERSECTION. (1999 CODE, SEC. 9.507)

PROTECTION REQUIREMENTS AT WATER LINE – SANITARY SEWER CROSSINGS

	PROPOSED WATER LINE				PROPOSED SANITARY SEWER			
	OVER		UNDER		OVER		UNDER	
	EXISTING SS	PROP SS	EXISTING SS	PROP SS	EXISTING WL	PROP WL	EXISTING WL	PROP WL
Minimum 2 feet vertical clearance	✓[1]	✓[1]	✓	✓	Not Allowed	✓	✓[1]	✓[1]
Place 1 full section (min 18ft) Of WL centered at SS crossing. Provide restrained joints on WL, spaced at least 9 ft. horizontally from centerline Of SS	✓	✓	✓	✓		✓		✓
Place 1 full section (min 18ft) Of SS centered at WL crossing. Provide restrained joints on SS, spaced at least 9 ft. horizontally from centerline Of WL		✓					✓	✓
Replace 1 full section Of existing SS with pressure–rated DIP or pressure rated PVC pipe with adapters and restrained joints centered at WL crossing	✓[2,3]		✓[3]					
Provide DIP for small diameter WL (less than 24 inches), PVC pipe is only allowed if encased per TAC § 290.44, and use restrained joints for both DIP and PVC pipe			✓	✓		✓		
Embed SS with CSS for the total length Of 1 pipe segment plus 1 foot Beyond the joints on each end	✓[2,3]	✓[4]	✓[3]	✓[4]		✓[4]	✓[4]	✓[4]
Place 1 full section (min 18 ft) of min 150 psi SS centered at WL crossing. Provide restrained joints on SS, spaced at least 9 ft horizontally from centerline of WL or encase in a joint of 150 psi pressure pipe (min 18 ft) two nominal sizes larger with spacers at 5 ft interval.				✓		✓		

1. Minimum clearance is 2 feet for non–pressure rated SS and 6 inches for pressure rated SS (with at least 150 psi pressure rating)
2. Required if existing SS is disturbed and/or there is evidence of leakage
3. Not required for augered WL unless there is evidence Of leakage; completely fill augered hold with BenTonite/clay mixture
4. Not required for augered SS; completely fill augered hole with BenTonite/clay mixture

AT&T TEXAS/SWBT FACILITIES NOTES:

1. THE LOCATIONS OF AT&T TEXAS/SWBT FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
2. THE CONTRACTOR SHALL CALL 1–800–344–8377 (TEXAS 811) A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.
3. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T TEXAS/SWBT FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON–MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE AT&T TEXAS/SWBT FACILITIES.
4. WHEN AT&T TEXAS/SWBT FACILITIES ARE EXPOSED, THE CONTRACTOR WILL PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES, THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.
5. THE PRESENCE OR ABSENCE OF AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE FACILITIES SHOWN ON THESE PLANS DOES NOT MEAN THAT THERE ARE NO DIRECT BURIED CABLES OR OTHER CABLES IN CONDUIT IN THE AREA.
6. PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER ROOSEVELT LEE JR. AT (713) 567–4552 OR EMAIL HIM AT RL7259@ATT.COM, IF THERE ARE QUESTIONS ABOUT BORING OR EXCAVATING NEAR AT&T TEXAS/SWBT FACILITIES

DIRECT BURIED CABLE PROCEDURE
DIRECT BURIED CABLE RECORDS ARE NOT AVAILABLE. TO DETERMINE THE LOCATION OF DIRECT BURIED CABLE PLANT DURING THE DESIGN PHASE OF YOUR PROJECT, FOLLOW THE PROCEDURE OUTLINED BELOW:

- CALL 1–800–344–8377 (TEXAS 811) AND ADVISE YOU NEED THE EXISTING AT&T TEXAS TEXAS/SWBT FACILITIES LOCATED FOR THE DESIGN PHASE OF YOUR PROJECT PLEASE ALLOW AT LEAST 72 HOURS FOR THE CABLES TO GET MARKED BEFORE SENDING YOUR FIELD CREW FOR BASE LINE SURVEY FOR LOCATES OF. BE SPECIFIC ON THE PROJECT LOCATIONS.
- THE LOCATOR WILL FIELD LOCATE THE EXISTING AT&T TEXAS/SWBT FACILITIES WITH ORANGE PAINT AND/OR FLAGS.
- YOUR FIELD PARTY CAN SURVEY THE BURIED CABLE LOCATION USING THE ORANGE MARKS ON THE GROUND. IF THE CABLE ARE NOT MARKED, PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER ROOSEVELT LEE JR. AT (713) 567–4552 OR E–MAIL HIM AT RL7259@ATT.COM.
- PLOT THE EXACT LOCATION OF THE AT&T TEXAS/SWBT DIRECT BURIED CABLE FACILITIES ON THE PLAN AND PROFILE SHEETS.

CENTERPOINT ENERGY UTILITY NOTES

CAUTION: UNDERGROUND GAS FACILITIES

THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1–800–545–6005 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

- WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713) 207–5463 OR (713–945–8037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON–MECHANIZED EXCAVATION PROCEDURES.
- WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.
- FOR EMERGENCIES REGARDING GAS LINES CALL (713) 659–3552 OR (713) 207–4200.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

WARNING: OVERHEAD ELECTRICAL LINES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRAWINGS AS THE LINES ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:

- ANY ACTIVITY WHERE PERSON OR THINGS MAY COME WITHIN SIX(6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES; AND
- OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN 10 FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES.

PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL CENTERPOINT ENERGY AT (713) 207–2222.

ACTIVITIES ON/OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY

NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS GIVEN. IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207–6348 OR (713) 207–5769.

PAVING CONSTRUCTION NOTES:

1. PAVING SHALL BE IN ACCORDANCE WITH CITY OF KATY SUBDIVISION ORDINANCE, AND THESE PLANS AND SPECIFICATIONS.
2. ALL ROAD WIDTH, CURB RADII, AND CURB ALIGNMENT SHOWN INDICATE BACK OF CURB. T.C. INDICATES TOP OF CURB. T.P. INDICATES TOP OF PAVEMENT.
3. GUIDELINES SET FORTH IN THE 1980 "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" SHALL BE OBSERVED. THERE WILL BE NO SEPARATE PAYMENT FOR THIS ITEM.
4. TRANSVERSE EXPANSION JOINTS SHALL BE INSTALLED AT EACH CURB RETURN AND AT A MAXIMUM SPACING OF 60 FEET. MAXIMUM CONTROL JOINT SPACING ARE 12.5 FEET FOR 5 INCH. THICK CONCRETE, 15 FEET FOR 6 AND 7 INCH. THICK CONCRETE.
5. THE SUBGRADE IS TO BE SIX INCHES (6") DEEP SCARIFIED, LIME STABILIZED 2% HYDRATE LIME AND 8% FLY ASH BY DRY WEIGHT. COMPACTED TO 95% STANDARD PROCTOR DENSITY PER ASTM D–698 AT A MOISTURE CONTENT BETWEEN AND 4 PERCENT WET OF THE OPTIMUM MOISTURE CONTENT. FINAL REFER TO GEOTECHNICAL REPORT FOR FINAL RECOMMENDATION (WHEN AVAILABLE) AND FOR ADDITIONAL SITE PREPARATION AND PAVING SUBGRADE RECOMMENDATION.
6. REFER TO SITE PLAN FOR PAVING THICKNESS. CONCRETE SHALL BE PORTLAND CEMENT HAS MINIMUM 3500 PSI COMPRESSIVE STRENGTH AT 28 DAYS. REINFORCING STEEL TO CONFORM TO ASTM A–615, GRADE 60. PROVIDE MINIMUM TEN INCH (10") LAPS, MINIMUM #4 REBARS.
7. AT EACH FLUSHING VALVE LOCATION, THE CONTRACTOR SHALL SET ONE BLUE RELFECTORIZED BUTTON SIX INCHES (6") OFF THE CENTERLINE OF PAVING ON THE FLUSHING VALVE SIDE (NO SEPARATE PAY).
8. WHERE PROPOSED PAVEMENT IS TO MATCH EXISTING PAVEMENT, EXISTING REBARS OR DOWELS PROJECTING FROM PAVEMENT TO BE CLEANED AND TIED INTO PROPOSED PAVEMENT. REMOVE EXISTING BARRICADES. NO SEPARATE PAY.
9. WHERE PROPOSED PAVEMENT ENDS AT A CONSTRUCTION JOINT, EXTEND REBARS EIGHTEEN INCHES (18"), COAT WITH ASPHALT AND WRAP WITH BURLAP; AT EXPANSION JOINTS, EXTEND DOWEL FIVE INCHES (5"), COAT AND WRAP SAME AS CONSTRUCTION JOINT. NO SEPARATE PAY.
10. NECESSARY TESTING OF SUBGRADE, FLEXIBLE BASE PAVEMENT AND CONCRETE PAVEMENT, TO PROVE THAT THESE ITEMS MEET REQUIREMENTS, SHALL BE DONE BY A COMMERCIAL TESTING LABORATORY APPROVED BY THE ENGINEER AND OWN

RESTRICTED RESERVE "A"
KATY INDEPENDENT SCHOOL DISTRICT
STUDENT ACTIVITY FACILITY
F.C. 673104, H.C.M.R.

CALLED 16.446 ACRES
KATY INDEPENDENT SCHOOL DISTRICT
H.C.C.F. No. 20110090517

CALLED 42.7512 ACRES
KATY INDEPENDENT SCHOOL DISTRICT
H.C.C.F. No. 20100524643

20' DRAINAGE ESMT.
H.C.C.F. No. W758809
AMENDED UNDER
H.C.C.F. No's 20090017372 & 20090017858

75' DRAINAGE EASEMENT
H.C.C.F. NO. G445820

75' DRAINAGE EASEMENT
H.C.C.F. No's G865975 & G445820

CENTERLINE OF DITCH

TBM "A"

N85°33'03"W 482.55'

TOP OF BANK

DITCH

CMC

UGV

CONCRETE

6' WROUGHT IRON FENCE

24" OAK CLUSTER

10" OAK

HEADWALL

GRASS

GRATE INLET
TG=138.94
FL 24" HDP (E) 132.14
FL 24" HDP (W) 132.19

24" HDP

RIGHT-OF-WAY LINE

35' B.L. (SEE NOTE #4)

KATY-FORT BEND ROAD
(100' R.O.W.)
H.C.C.F. NOS. U965099 & V059544

TBM "F"

24" RCP

"C1" INLET
TN=138.24
FL 24" RCP (E) 133.16

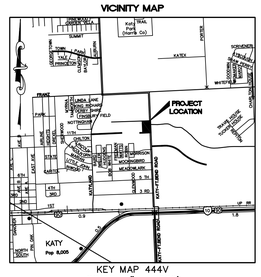
SIGN

CALLED 65.000 ACRES
KATY INDEPENDENT SCHOOL DISTRICT
H.C.C.F. No. G445819

GRATE INLET
TG=137.69
FL 24" RCP (E) 133.22
FL 24" RCP (W) 133.31

SWALE

VICINITY MAP



KEY MAP 444V
SCALE: 1" = 3000'

30 0 15 30 60
SCALE: 1"= 30'

LEGEND

- BENCHMARK
- BOLLARD
- "C1" INLET
- GAS VALVE
- GATE POST
- GUY WIRE
- INLET
- LIGHT STANDARD
- POWER POLE
- SIGN

ABBREVIATIONS

B.L.–BUILDING LINE
CBC–CONCRETE BOX CULVERT
ESMT.–EASEMENT
FC–FILM CODE
FL–FLOW LINE
H.C.C.F.–HARRIS COUNTY CLERK'S FILE
H.C.M.R.–HARRIS COUNTY MAP RECORDS
HDP–HIGH DENSITY POLYETHYLENE PIPE
OHE–OVERHEAD ELECTRIC
RCP–REINFORCED CONCRETE PIPE
R.O.W.–RIGHT–OF–WAY
TG–TOP OF GRATE
TR–TOP OF RIM
UGV–UNDERGROUND VAULT

SURVEYOR'S NOTES:

1. THE CAD FILE OF THE DRAWING SHOWN HEREIN IS BASED ON TEXAS SOUTH CENTRAL ZONE NO. 4204, STATE PLANE SURFACE VALUE (NAD83) AND MAY BE CONVERTED TO GRID BY SCALING THE DRAWING BY THE FOLLOWING COMBINED SCALE FACTOR OF 0.999893587.

2. ACCORDING TO F.I.R.M. MAP NO. 48473C0375E (COMMUNITY–PANEL NO. 4803010375E), MAP REVISED DATE: FEBRUARY 18, 2009. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO IDENTIFY SPECIFIC FLOODING CONDITIONS.

3. ALL UTILITIES SHOWN HEREON ARE LOCATED USING "APPARENT & VISIBLE" EVIDENCE BY ON–SITE OBSERVATION UNLESS OTHERWISE NOTED.

4. THE SUBJECT TRACT IS AFFECTED BY THE CITY ORDINANCES AND ZONING REGULATIONS FOR ZONE "R1" OF THE CITY OF KATY.

5. –I– INDICATES AN UNDERGROUND SEWER LINE WITH UNKNOWN DIRECTION, SIZE OR LOCATION OR A POSSIBLE STUB–OUT.

REFERENCE BENCHMARK:

RM190195 – NGS STAINLESS STEEL ROD W/ LOGO CAP STAMPED "HGCSD24 1986" AT BUSINESS US 90, NORTH OF IH 10 LOCATED IN GROUND, IN FRONT OF HOUSTON LIGHTING & POWER, SOUTH MEDIAN BETWEEN DRIVEWAYS IN KEY MAP 444Y IN THE BARKER WATERSHED NEAR STREAM T101–03–00.
ELEVATION = 140.44' (NAVD 1988, 2001 ADJ.)

TEMPORARY BENCHMARKS:

TBM "A" – BOX CUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED IN THE MEDIAN OF THE MOST EASTERLY DRIVE CONNECTING RHODES STADIUM AND LEGACY STADIUM.
ELEVATION = 144.39'

TBM "F" – BOX CUT ON TOP OF "C" INLET LOCATED ON THE WEST SIDE OF KATY FORT BEND ROAD ±1765 FEET SOUTH OF FRANZ ROAD AND ±875' NORTH OF COLONIAL PARKWAY.
ELEVATION = 138.22'

STATE OF TEXAS
REGISTERED
JOEL D. WALKER
5189
PROFESSIONAL
LAND SURVEYOR

TO: KATY INDEPENDENT SCHOOL DISTRICT

THIS SURVEY SUBSTANTIALLY COMPLIES WITH THE CURRENT TEXAS SOCIETY OF PROFESSIONAL SURVEYORS STANDARDS AND SPECIFICATIONS FOR A CATEGORY 6, CONDITION 1 SURVEY AND THE CURRENT MINIMUM REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYING ACT.

8/18/25
DATE

Joel D. Walker
JOEL D. WALKER, R.P.L.S.
TEXAS REGISTRATION NO. 5189

KATY INDEPENDENT SCHOOL DISTRICT

TOPOGRAPHIC SURVEY

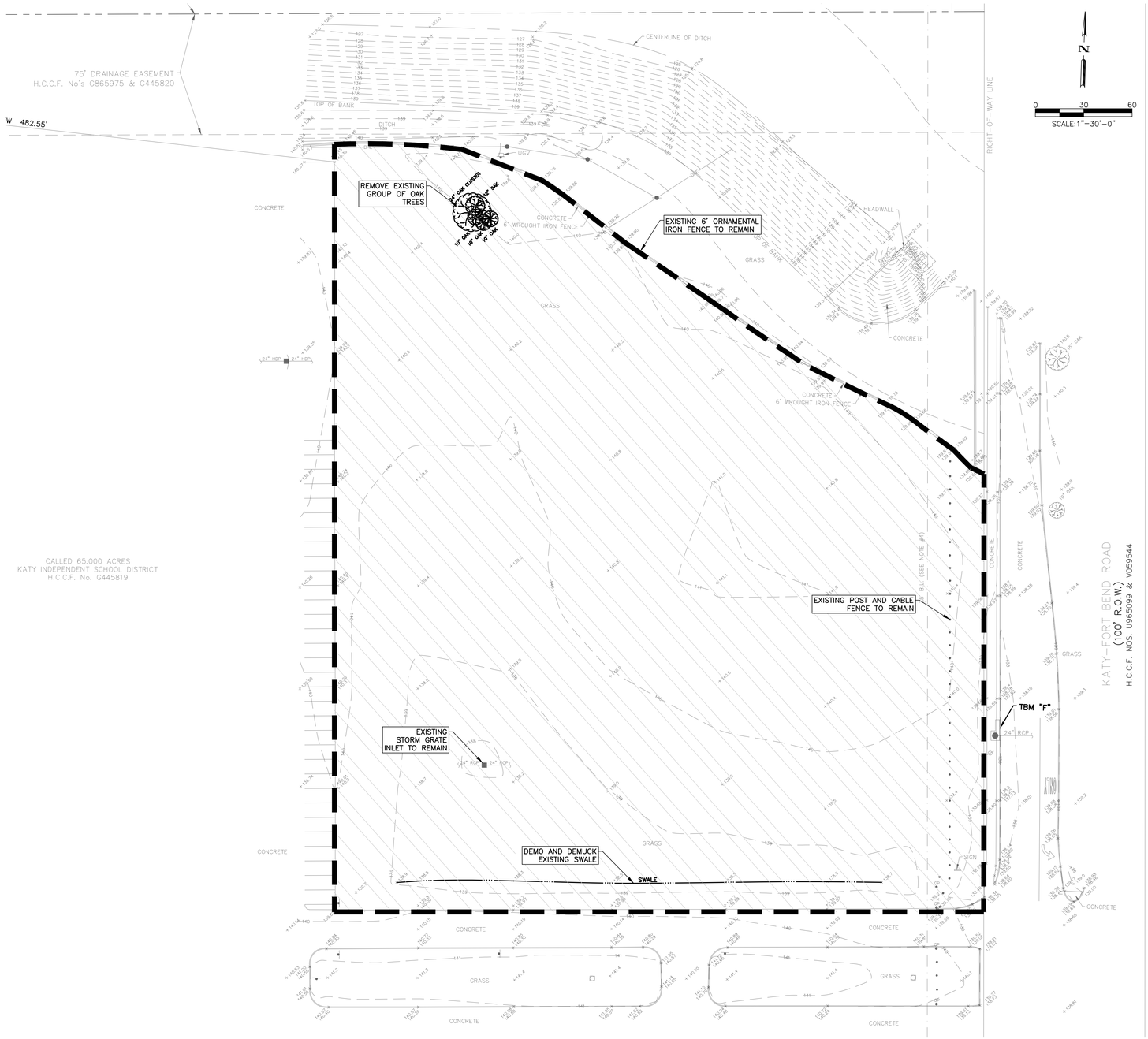
RHODES STADIUM
OUT OF THE
H.T. & B. RR. CO. SURVEY
ABSTRACT NO. 471
CITY OF KATY,
HARRIS COUNTY, TEXAS

WEST BELT
SURVEYING, INC.
21029 PARK ROW
KATY, TX. 77449
PHONE: (281) 599-8288
FAX: (281) 492-0226
CERTIFIED FIRM NO. 10073800

NO.	DATE	REVISIONS	BY

DRAWN BY: MDL	CHECKED BY: KMH
SCALE: 1"=30'	APPROVED BY: JDW
PROJECT NO. S528–0079C	DATE: AUGUST 18, 2025

19 Aug 2025 12:53PM markl
G:\sdsk\proj\S528079C\DWG\T081825.dwg



CLEARING AND GRUBBING:

1. SCOPE
   THE WORK SHALL CONSIST OF CLEARING AND GRUBBING AND DISPOSAL OF SNAGS, LOGS, BRUSH STUMPS, SHRUBS AND RUBBISH FROM THE DESIGNATED AREA.

2. PROTECTION OF EXISTING VEGETATION
   TREES AND OTHER VEGETATION DESIGNATED TO REMAIN UNDISTURBED SHALL BE PROTECTED FROM DAMAGE THROUGHOUT THE DURATION OF THE CONSTRUCTION PERIOD, ANY DAMAGES RESULTING FROM THE CONTRACTOR'S OPERATIONS OR NEGLECT SHALL BE REPAIRED BY THE CONTRACTOR.

   EARTH FILL, STOCKPILING OF MATERIALS, VEHICULAR PARKING, AND EXCESSIVE FOOT OR VEHICULAR TRAFFIC SHALL NOT BE ALLOWED WITHIN THE DRIP LINE OF VEGETATION DESIGNATED TO REMAIN IN PLACE. VEGETATION DAMAGED BY ANY OF THESE OR SIMILAR ACTIONS SHALL BE REPLACED WITH VIABLE VEGETATION OF THE SAME SPECIES, SIMILAR CONDITION, AND LIKE SIZE UNLESS OTHERWISE APPROVED BY THE CONTRACTING OFFICER.

   ANY CUTS, SKINS, SCRAPES OR BRUISES TO THE BARK OF THE VEGETATION SHALL BE CAREFULLY TRIMMED AND LOCAL NURSERY ACCEPTED PROCEDURES UTILIZED TO SEAL DAMAGED BARK.

   ANY LIMBS OR BRANCHES ONE-HALF (1/2) INCH OR GREATER IN DIAMETER WHICH ARE BROKEN, SEVERED OR OTHERWISE SERIOUSLY DAMAGED DURING CONSTRUCTION SHALL BE CUT OFF AT THE BASE OF THE DAMAGED LIMB OR BRANCH FLUSH WITH THE ADJACENT LIMB OR TREE TRUNK.

   ALL ROOTS ONE (1) OR GREATER IN DIAMETER WHICH ARE CUT, BROKEN OR OTHERWISE SEVERED DURING CONSTRUCTION OPERATIONS SHALL HAVE THE END SMOOTHLY CUT PERPENDICULAR TO THE ROOT. ROOTS EXPOSED DURING EXCAVATION OR OTHER OPERATIONS SHALL BE COVERED WITH MOIST EARTH AND/OR BACKFILLED AS SOON AS POSSIBLE TO PREVENT THE ROOTS FROM DRYING OUT.

3. MARKING
   THE LIMITS OF THE AREA(S) TO BE CLEARED AND GRUBBED WILL BE MARKED BY MEANS OF STAKES, FLAGS, TREE MARKINGS OR OTHER SUITABLE METHODS. TREES TO BE LEFT STANDING AND UNINJURED WILL BE DESIGNATED BY SPECIAL MARKINGS PLACED ON THE TRUNK ABOUT SIX (6) FEET ABOVE THE GROUND SURFACE.

4. CLEARING AND GRUBBING
   ALL SNAGS, LOGS, BRUSH, STUMPS, SHRUBS, RUBBISH AND SIMILAR MATERIALS SHALL BE CLEARED FROM WITHIN THE LIMITS OF THE DESIGNATED AREAS, UNLESS OTHERWISE SPECIFIED, ALL STUMPS, ROOTS AND ROOT CLUSTERS HAVING A DIAMETER OF ONE (1) INCH OR LARGER SHALL BE GRUBBED OUT TO A DEPTH OF AT LEAST TWO (2) FEET BELOW SUBGRADE FOR CONCRETE STRUCTURES AND ONE (1) FOOT BELOW THE GROUND SURFACE AT EMBANKMENT SITES AND OTHER DESIGNATED AREAS.

5. DISPOSAL
   ALL MATERIALS CLEARED AND GRUBBED FROM THE DESIGNATED AREAS SHALL BE DISPOSED OF OFFSITE. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL LOCAL RULES AND REGULATIONS AND THE PAYMENT OF ANY ALL FEES THAT MAY RESULT FROM DISPOSAL AT LOCATIONS AWAY FROM THE PROJECT SITE.

LEGEND

CLEARING AND GRUBBING LIMITS

CLEARING AND GRUBBING AREA
3.66 ACRES

NOTE:
ALL MATERIALS CLEARED FROM THE DESIGNATED AREAS SHALL BE DISPOSED OF OFFSITE. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL LOCAL RULES AND REGULATIONS AND THE PAYMENT OF ANY ALL FEES THAT MAY RESULT FROM DISPOSAL AT LOCATIONS AWAY FROM THE PROJECT SITE.

Texas 811

WARNING:

CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITY LINES BY CONTACTING "TEXAS 811" AT 811 OR 713-223-4567 AT LEAST 48 HOURS BEFORE YOU DIG, DRILL OR BLAST.

EXISTING, WATER, SANITARY, GAS, ELECTRICAL, TELECOMMUNICATIONS AND ALL OTHER UTILITY LINES ARE SHOWN PER RECORD DRAWINGS. CONTRACTOR SHALL VERIFY LOCATION AT THE SITE PRIOR TO CONSTRUCTION.

VLK

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CIVIL ENGINEER
Adico Consulting Engineers
205 E Edgewood Drive
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Main Phone: 832.895.1093
https://adico-llc.com/

ADICO, LLC
TBPE FIRM NO. F-16423

STATE OF TEXAS
PHASITH NANTHAVONGDUANGSY
99284
LICENSED PROFESSIONAL ENGINEER
05-26-2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Principal DINH H.
Proj. Eng. PHASITH N.

PROJECT NO.
25-0067.00

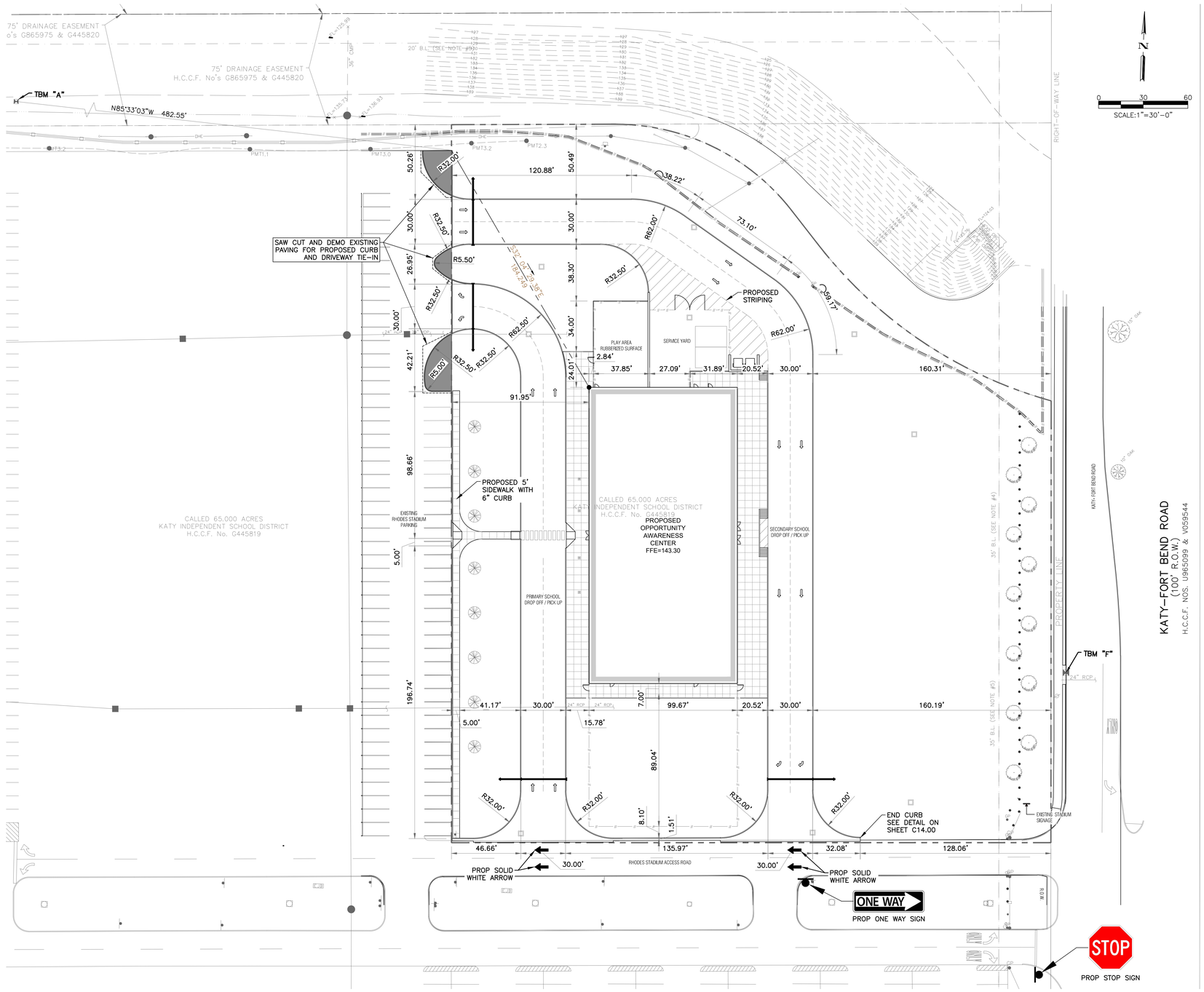
SHEET TITLE
CLEARING AND GRUBBING PLAN

SHEET NO.
C2.00

1745 KATY FORT BEND ROAD
KATY, TEXAS 77493

NEW OPPORTUNITY AWARENESS CENTER

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KATY-FORT BEND ROAD
(100' R.O.W.)
H.C.C.F. NOS. U965099 & V059544

SITE PLAN NOTES

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
2. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
3. ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
4. ALL ISLANDS WITH CURB SHALL BE LANDSCAPED PER LANDSCAPE PLAN.
5. NOT ALL DIMENSIONS ARE SHOWN ON THIS PLAN, SEE ARCHITECTURAL SITE PLAN FOR DETAILED DIMENSIONS.
6. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
8. REFER TO TOPOGRAPHICAL SURVEY FOR EXISTING CONDITIONS, REFER TO PLAT FOR PROPERTY BOUNDARIES.
9. THE SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE STANDARD SITE WORK SPECIFICATION.

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1745 KATY FORT BEND ROAD
KATY, TEXAS 77493

NEW OPPORTUNITY AWARENESS CENTER

ADICO, LLC
TBPE FIRM NO. F-16423
STATE OF TEXAS
PHASITH NHOTHAVANHNY
99284
LICENSED
PROFESSIONAL ENGINEER
05-26-2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

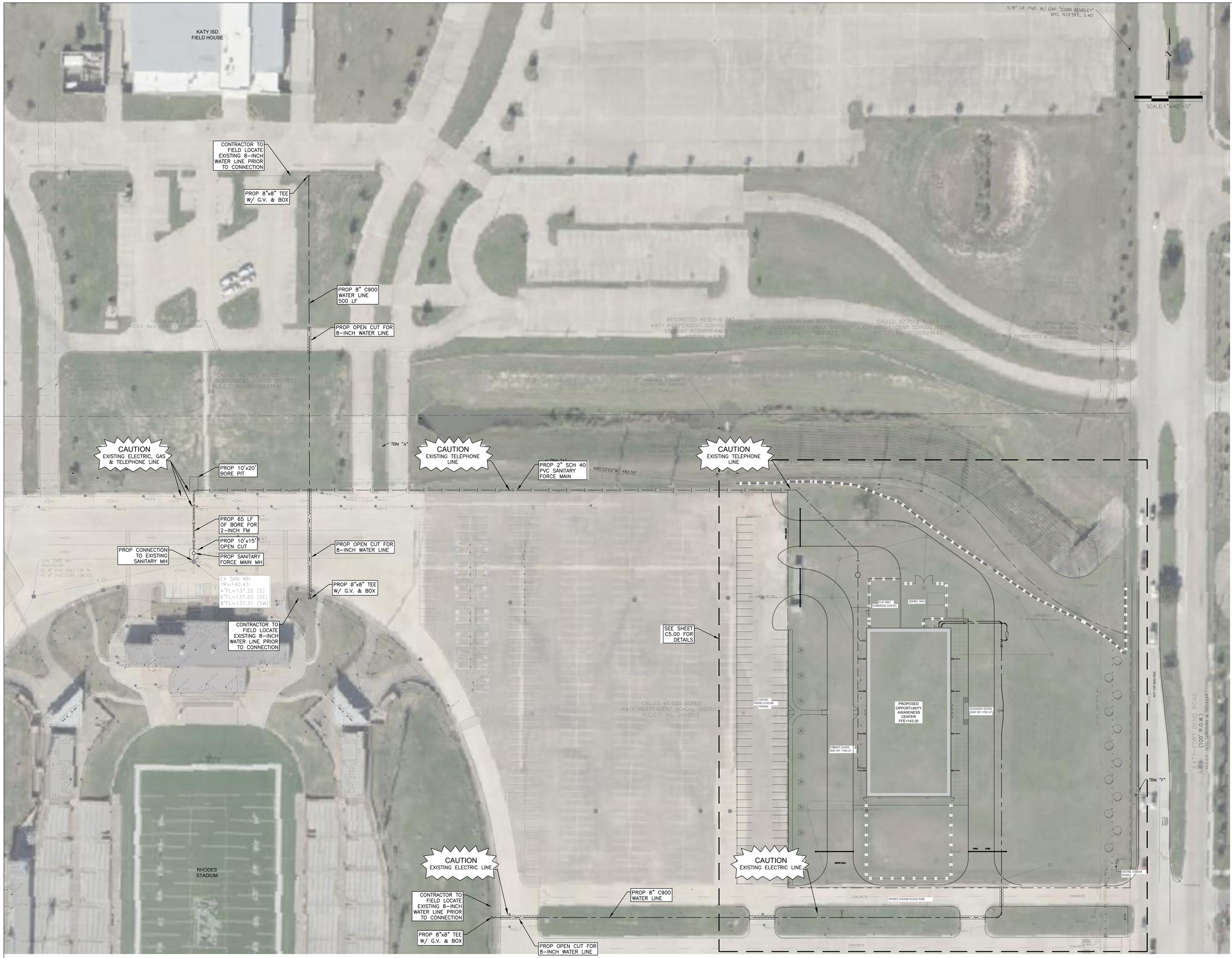
Principal DINH H.
Proj. Eng. PHASITH N.

PROJECT NO.
25-0067.00

SHEET TITLE
SITE DIMENSION PLAN

SHEET NO.
C3.00

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ADICO, LLC
TBPE FIRM NO. F-16423



ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Principal DINH H.

Proj. Eng. PHASITH N.

PROJECT NO.

25-0067.00

SHEET TITLE

OVERALL
SITE UTILITY PLAN

SHEET NO.

C4.00

NEW OPPORTUNITY AWARENESS CENTER

1745 KATY FORT BEND ROAD
KATY, TEXAS 77493

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100-YEAR FLOOD PLAIN INFORMATION:
ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP, HARRIS COUNTY, TEXAS, AND INCORPORATED AREAS, COMMUNITY PANEL NO. 48473C0375E MAP REVISED DATED FEBRUARY 18, 2009, THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. DETERMINE TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

BENCHMARK INFORMATION:
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PERMIT NOTES:

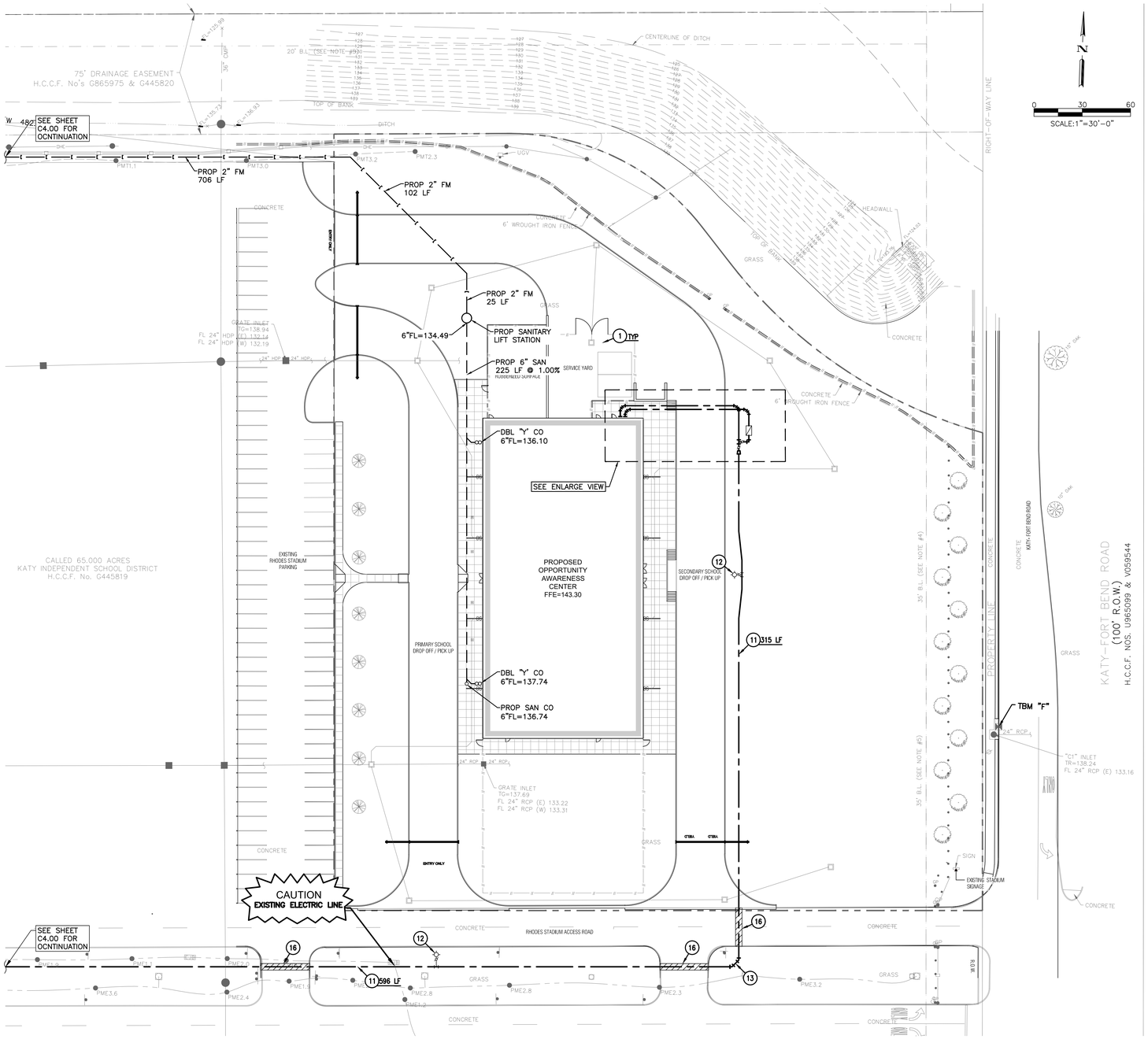
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3. THE CONTRACTOR(S) SHALL NOTIFY CITY OF KATY BUILDING AND PERMITS DEPARTMENT OFFICE TWENTY-FOUR (24) HOURS IN ADVANCE OF COMMENCING UTILITY AND/OR PAVING CONSTRUCTION AT (281) 391-4830 AND WRITTEN NOTIFICATION FORTY-EIGHT (48) HOURS IN ADVANCE OF COMMENCING CONSTRUCTION AT 901 AVENUE C, KATY, TX 77493.

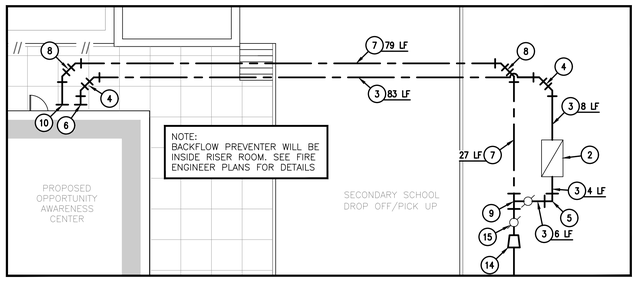
UTILITY NOTES:

1. UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ENGINEER OF ANY CONFLICT OR DISCREPANCIES.
2. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES FOR SERVICE ORIGINATION AND CONNECTION.
3. CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ANY EXISTING ITEMS ONSITE.
4. CONTRACTOR SHALL KEEP THE SITE CLEAN OF DEBRIS AND ANY EROSION CONTROL MEASURES ARE ADEQUATELY PLACED.
5. CONTRACTOR TO COORDINATE LOCATIONS OF UNDERGROUND IRRIGATION SLEEVING PRIOR TO PAVING. SEE LANDSCAPE PLANS.
6. CONTRACTOR TO COORDINATE LOCATIONS OF UNDERGROUND CONDUIT FOR SITE LIGHTING PRIOR TO PAVING.
7. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION. COPIES OF OSHA STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE. INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 903 SAN JACINTO, RM 319, AUSTIN, TX. 78701. TEL: (512) 916-5783.
8. REFERENCE MEP PLANS FOR UTILITY CONDUIT LOCATIONS.
9. GAS LINE SHALL BE POLYETHYLENE (PE) PIPE ASTM D 2513 SDR 11 WITH FITTINGS POLYETHYLENE ASTM D 2683, SOCKET FUSION TYPE OR ASTM D 3261 BUTT FUSION TYPE WITH DIMENSIONS MATCHING PE PIPE. PE TRANSITION FITTINGS: FACTORY FABRICATED FITTINGS WITH PE PIPE COMPLYING WITH ASTM D 2513, SDR 11; AND STEEL PIPE COMPLYING WITH ASTM A 53/A 53M, BLACK STEEL, SCHEDULE 40 TYPE E OR S, GRADE B. TRANSITION SERVICE RISER: PE TRANSITION FITTING WITH CORROSION PROTECTIVE COATING FOR ABOVE GROUND STEEL PIPE.

WATER LINE AND SANITARY SEWER NOTES:

1. CONTRACTOR TO ALLOW A MINIMUM OF 12 INCHES VERTICAL CLEARANCE BETWEEN PROPOSED WATER LINE AND OTHER EXISTING OR PROPOSED UTILITIES. MINIMUM 2 FT CLEAR FROM SANITARY SEWER.
2. ALL WATER LINES TO HAVE A MINIMUM COVER OF 4' BELOW FINISHED GRADE. VARY THE FLOWLINE UNIFORMLY FROM DEPTH AND LOCATION SHOWN TO ACHIEVE COVER.
3. ALL WATER LINE FITTINGS TO BE EITHER: BRONZE, PVC, OR DUCTILE IRON.
4. ALL WATER LINE FITTINGS TO BE INSTALLED WITH ADEQUATE CONCRETE THRUST BLOCKS.
5. ALL WATER LINES TO BE TESTED AS PER THE CITY OF KATY SPECIFICATIONS, DETAILS AND FIRE MARSHALL AS APPLICABLE.
6. ALL WATER LINES TO BE WRAPPED IN A MINIMUM OF 6-INCHES OF CLEAN BANK SAND, OR ONSITE SUITABLE FILL MATERIAL, UNLESS OTHERWISE NOTED. REMAINING BACKFILL TO BE MADE WITH COMPACTED SELECT MATERIAL UNLESS OTHERWISE NOTED.
7. WHENEVER NEW WATER LINES CROSS SANITARY SEWER LINES WITH LESS THAN TWENTY FOUR (24) INCHES OF VERTICAL CLEARANCE, THE SEWER LINE SHALL BE CONSTRUCTED IN A CONTINUOUS CAST IRON CASING FOR A DISTANCE OF NINE (9) FEET EACH SIDE OF THE WATER LINE. MINIMUM VERTICAL CLEARANCE TO BE SIX (6) INCHES WITH THE SEWER LINE LOCATED LOWER THAN THE WATER LINE.
8. REFER TO GENERAL NOTES SHEET C02.00 FOR WATER AND SANITARY SEWER PIPE MATERIAL AND SPECIFICATIONS REQUIRED BY CITY OF KATY





ENLARGE VIEW
SCALE:1"=10'

CONSTRUCTION KEY NOTES

KEY	NOTE
1	PROP STORM INLET, SEE SHEET C15.00 FOR DETAILS.
2	PROP 4" RPZ WITH INSULATED ENCLOSURE.
3	PROP 4" C900 PVC DOMESTIC WATER LINE.
4	PROP 2-4"x45 DEGREE BEND W/ FITTINGS AND CONCRETE THRUST BLOCK.
5	PROP 4"x90 DEGREE BEND W/ FITTINGS AND CONCRETE THRUST BLOCK.
6	PROP 4" CONNECTION TO DOMESTIC WATER LINE. SEE PLUMBING PLANS FOR CONTINUATION INSIDE BUILDING.
7	PROP 6" C900 PVC WATER LINE.
8	PROP 2-6"x45 DEGREE BEND W/ FITTINGS AND CONCRETE THRUST BLOCK.
9	PROP 6"x4" TEE W/ FITTINGS, CONCRETE THRUST BLOCK AND 4" GATE VALVE W/BOX.
10	PROP 6" CONNECTION TO RISER ROOM. SEE FIRE ENGINEER PLANS FOR CONTINUATION INSIDE BUILDING.
11	PROP 8" C900 PVC WATER LINE.
12	PROP FIRE HYDRANT ASSEMBLY INCLUDING, 8"x6" TEE, 6" 90 DEGREE ELBOW 6" G.V. W/ BOX. SEE DETALS SHEET C16.00.
13	PROP 2-8"x45 DEGREE BEND W/ FITTINGS AND CONCRETE THRUST BLOCK.
14	PROP 8"x6" REDUCER.
15	PROP 6" GATE VALVE W/BOX.
16	PROP OPEN CUT FOR 8-INCH WATER LINE.

Texas 811

WARNING:
CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITY LINES BY CONTACTING "TEXAS 811" AT 811 OR 713-223-4567 AT LEAST 48 HOURS BEFORE YOU DIG, DRILL OR BLAST.

EXISTING, WATER, SANITARY, GAS, ELECTRICAL, TELECOMMUNICATIONS AND ALL OTHER UTILITY LINES ARE SHOWN PER RECORD DRAWINGS. CONTRACTOR SHALL VERIFY LOCATION AT THE SITE PRIOR TO CONSTRUCTION.

LEGEND:
- PROPOSED STORM SEWER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED WATER LINE
- PROPOSED FIRE HYDRANT
- PROPOSED GATE VALVE
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY/ STORM CLEAN OUT
- PROPOSED STORM MANHOLE W/GRATE TOP
- PROPOSED STORM INLET
- PROPOSED REDUCED PRESSURE ZONE BACKFLOW PREVENTER

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1745 KATY FORT BEND ROAD
KATY, TEXAS 77493

NEW OPPORTUNITY AWARENESS CENTER

ADICO, LLC
TBPE FIRM NO. F-16423
REGISTERED PROFESSIONAL ENGINEER
PHASITH NHITHAVANANTHONG
99284
LICENSED
05-26-2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Principal DINH H.
Proj. Eng. PHASITH N.

PROJECT NO.
25-0067.00

SHEET TITLE
SITE UTILITY PLAN

SHEET NO.
C5.00

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CONSTRUCTION KEY NOTES	
KEY	NOTE
1	TIE DOWNSPOUTS TO UNDERGROUND STORM SEWER. USE 8" HDPE STM SWR. @ 0.54%.

100-YEAR FLOOD PLAIN INFORMATION:
ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP, HARRIS COUNTY, TEXAS, AND INCORPORATED AREAS, COMMUNITY PANEL NO. 48473C0375E MAP REVISED DATED FEBRUARY 18, 2009, THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. DETERMINE TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

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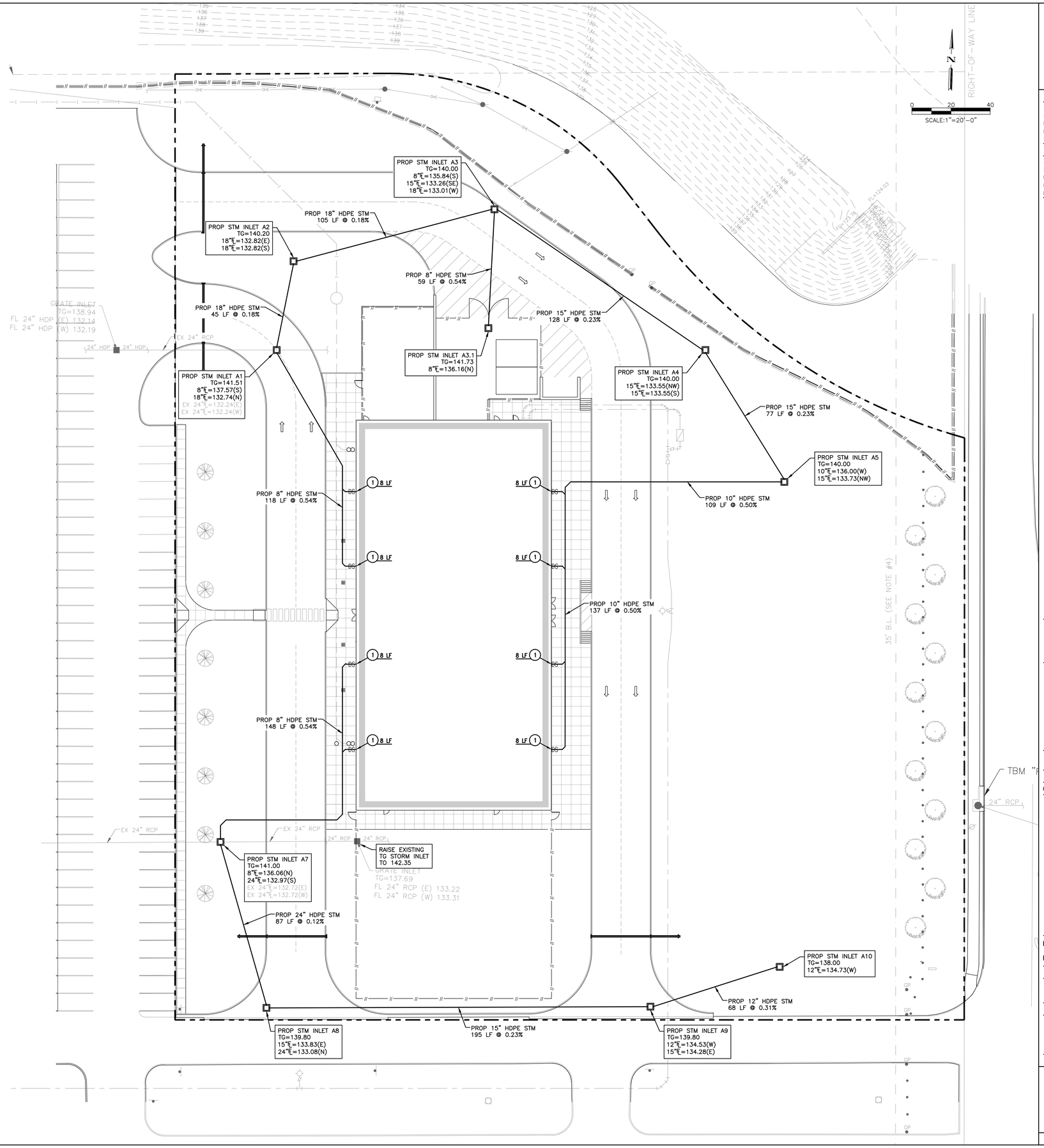
- PROPOSED STORM INLET
- PROPOSED STORM SEWER

Texas 811

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1745 KATY FORT BEND ROAD
KATY, TEXAS 77493

NEW OPPORTUNITY AWARENESS CENTER

ADICO, LLC
TBPE FIRM NO. F-16423
ROBERT ANTHONY HAWKINS 99284
05-26-2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Principal DINH H.
Proj. Eng. PHASITH N.

PROJECT NO.
25-0067.00

SHEET TITLE
STORM PLAN

SHEET NO.
C6.00

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GENERAL GRADING NOTES:

1. CONTRACTOR TO REGRADE ALL DISTURBED AREAS AFTER CONSTRUCTION IS COMPLETE TO EQUAL OR BETTER CONDITION. SEED OR HYDROMULCH DISTURBED AREAS TO ESTABLISH TURF INSIDE HARRIS COUNTY RIGHT-OF-WAY AND ANY PRIVATE PROPERTY THAT IS DISTURBED.
2. REGRADE ALL DITCHES AFTER CONSTRUCTION IS COMPLETE THAT ARE DISTURBED DURING CONSTRUCTION. REGRADE DITCH TO ESTABLISH FLOW IN A POSITIVE DIRECTION.
3. ALL OPEN EXCAVATION TO BE CLEARLY IDENTIFIED BY CONTRACTOR. CONTRACTOR IS REQUIRED TO COVER ALL OPEN EXCAVATION AREAS AT THE END OF EACH WORK DAY AND WHENEVER CONTRACTOR IS NOT WORKING ONSITE USING STEEL PLATES.
4. ALL PAVING "TP" AND "TC" SHOWN ARE TAKEN FROM BACK OF CONCRETE PAVEMENT.
5. CONTRACTOR IS REQUIRED TO ENSURE THAT ALL CONSTRUCTED SLOPES AND ELEVATIONS COMPLY WITH TEXAS DEPARTMENT OF LICENSING AND REGULATION REQUIREMENTS FOR ACCESSIBILITY. GRADES SHOWN ON THE PLANS HAVE BEEN CAREFULLY DETERMINED BASED ON MINIMUM ACCESSIBILITY STANDARDS.
6. CHANGES IN LEVEL OR TOP OF PAVEMENT AT ALL BUILDING EXITS SHALL BE 1/4" MAXIMUM.
7. ALL CROSS SLOPES AT ACCESSIBLE ROUTES SHALL BE 2% MAXIMUM.
8. WHERE AN ACCESSIBLE ROUTE CHANGES DIRECTION, A 5'X5' LANDING SHALL BE PROVIDED WITH MAXIMUM 2% SLOPE IN ANY DIRECTION.
9. NO PORTION OF THE A.D.A. ACCESSIBLE PARKING AREA SHALL EXCEED 2% MAXIMUM SLOPE IN ANY DIRECTION.
10. ACCESSIBLE ROUTES MAY HAVE SLOPES UP TO 5%.
11. ALL ADA WHEELCHAIR RAMPS SHALL BE MAXIMUM 1:12 (8.33%). ALL RAMPS MUST HAVE A 5'X5' LANDING WITH A MAXIMUM 2% SLOPE AT THE TOP AND BOTTOM. ANY RAMP RUN THAT RISES MORE THAN 6-INCHES VERTICALLY REQUIRES HAND RAILS (RE: ARCH PLANS).
12. THE FINISHED GRADES SHOWN ON THIS PLAN REPRESENT FINAL ELEVATIONS. THE CONTRACTOR MUST TAKE CARE TO ENSURE THAT THE FINISHED GRADES SHOWN HEREON ARE NOT EXCEEDED BY LANDSCAPING, MULCH, FILL MATERIAL OR OTHER LANDSCAPE DEVICES THAT BLOCK POSITIVE DRAINAGE AWAY FROM THE BUILDING OR SLAB. THE THICKNESS OF GRASS SOD, LANDSCAPING MATERIALS, OR OTHER OUTDOOR DEVICES SHOULD BE DEDUCTED FROM THE FINISHED GRADE ELEVATIONS SHOWN ON THESE PLANS IN ORDER TO DETERMINE THE FINAL GRADE ELEVATIONS DURING CONSTRUCTION.

NOTE:
IN AREAS WHERE THE PROJECT DESIGN INCORPORATES FILL ADJACENT TO NEIGHBORING LANDOWNERS, THE CONTRACTOR SHALL IMPLEMENT GRADING AND/OR PERIMETER RUNOFF CATCHMENT DEVICES (E.G.–PERIMETER DITCHES) DURING CONSTRUCTION TO ENSURE THAT ADJACENT PARCELS BORDERING THE PROJECT SITE DO NOT EXPERIENCE INTERIM DRAINAGE FLOWS THAT EXCEED PRE-DEVELOPMENT CONDITIONS FOR STORM EVENTS UP TO AND INCLUDING THE CURRENT STORM DRAINAGE DESIGN CRITERIA AT THE TIME OF THE PERMIT OR CARRY SEDIMENT GENERATED AS PART OF CONSTRUCTION ACTIVITIES. WHERE APPLICABLE, THESE PRACTICES ARE IN ADDITION TO THE STANDARD STORM WATER POLLUTION PREVENTION PLAN DESIGN AND SHALL INCUDE ADDITIONAL DITCHES REDIRECTION SITE DRAINAGE OR TEMPORARY PIPING. THIS NOTE IS NOT INTENDED TO ADDRESS ANY LIABILITY OR RESPONSIBILITY UNDER TEXAS WATER CODE 11.086

Texas 811

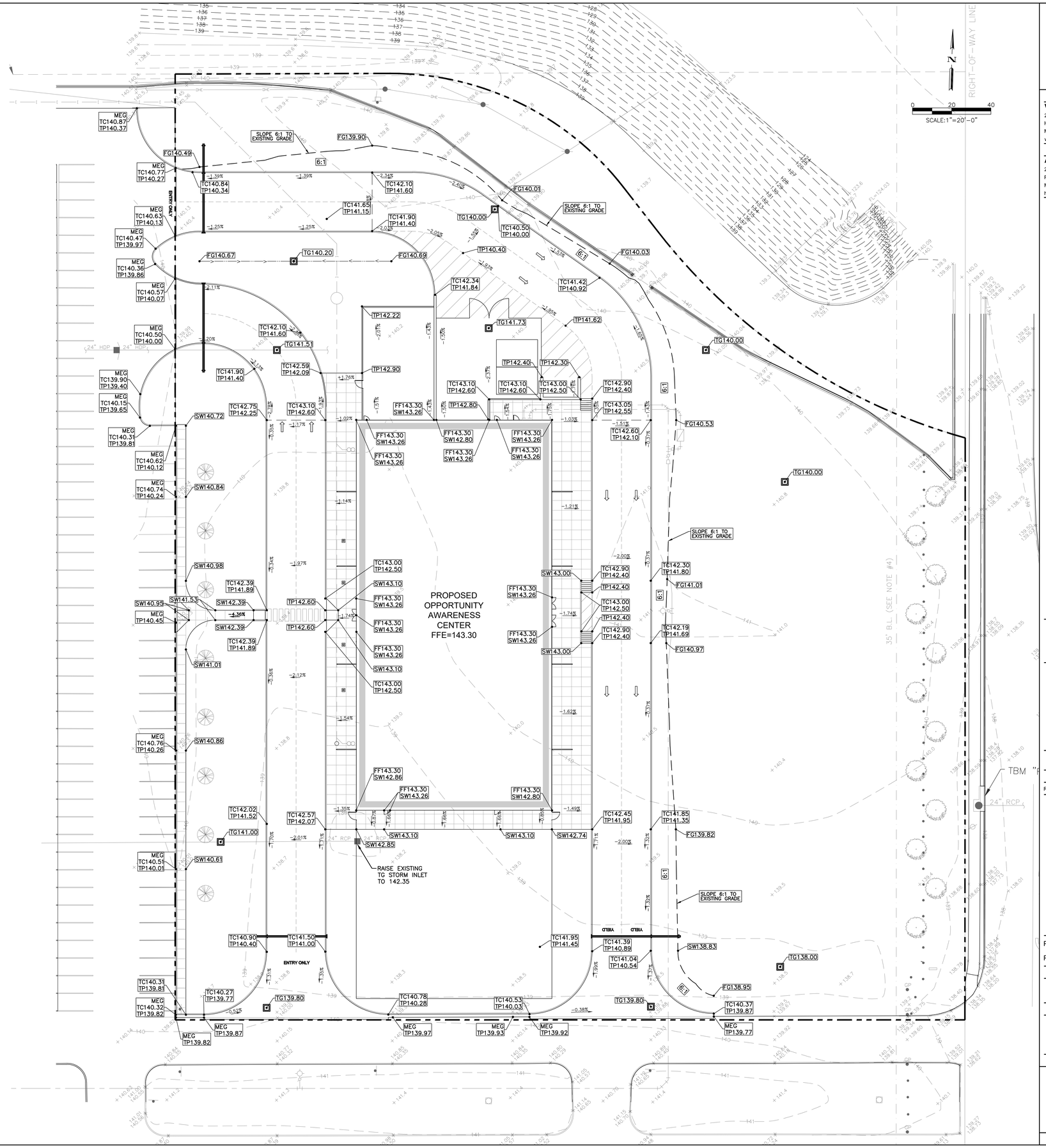
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LEGEND:

	PROPOSED SWALES
53.00	EXISTING CONTOUR
MEG	MATCH EXISTING GRADE
TC14.00	PROPOSED TOP OF CURB ELEVATION
TP14.00	PROPOSED TOP OF PAVEMENT
SW14.00	PROPOSED TOP OF SIDEWALK ELEVATION
FG14.00	PROPOSED FINISH GRADE ELEVATION
FF14.00	PROPOSED FINISHED FLOOR ELEVATION
TG14.00	PROPOSED TOP OF GRATE ELEVATION
TW14.00	PROPOSED TOP OF WALL ELEVATION
FL14.00	PROPOSED FLOW LINE ELEVATION



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1745 KATY FORT BEND ROAD
KATY, TEXAS 77493

NEW OPPORTUNITY AWARENESS CENTER

ADICO, LLC
TBPE FIRM NO. F-16423
STATE OF TEXAS
FRANCIS NGUYEN
99284
LICENSED PROFESSIONAL ENGINEER
05-26-2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

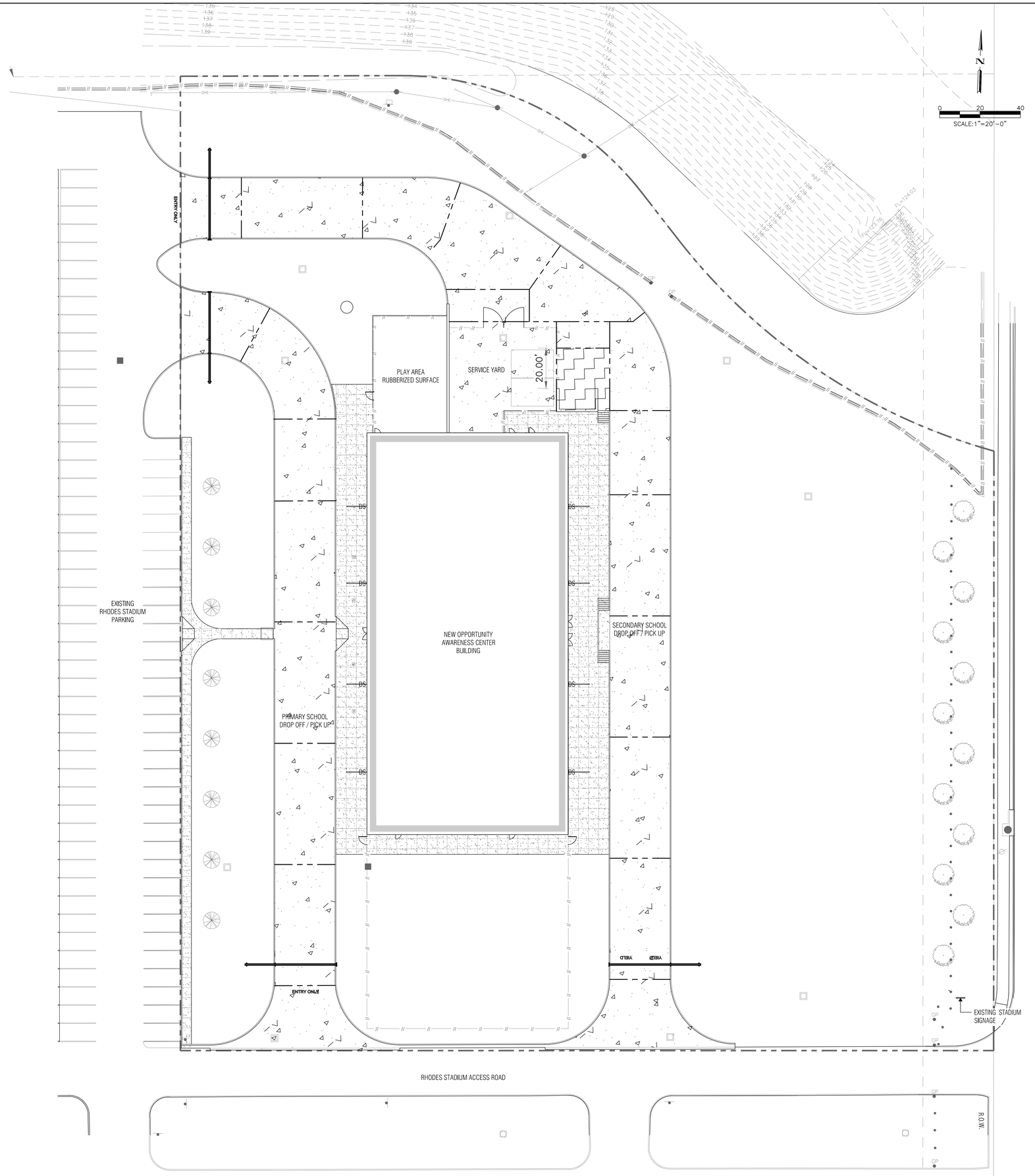
Principal DINH H.
Proj. Eng. PHASITH N.

PROJECT NO.
25-0067.00

SHEET TITLE
GRADING PLAN

SHEET NO.
C7.00

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NOTE:
CONTROL JOINT OR SAW JOINT
NOT SHOWN. SEE TYPICAL PAVING
DETAIL SHEET C14.00 FOR DETAILS

LEGEND

- PROPOSED 4.5"-INCH THICK CONCRETE PAVING W/ #3 REBAR @ 18" OC EA WAY
- PROPOSED 6"-INCH THICK CONCRETE PAVING W/ #3 REBAR @ 18" OC EA WAY
- PROPOSED 7"-INCH THICK CONCRETE PAVING W/ #4 REBAR @ 18" OC EA WAY

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REVISIONS

Revision No.	Revision Date

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Proj. Eng. PHASITH N.

PROJECT NO.
25-0067.00

SHEET TITLE
PAVING PLAN

SHEET NO.
C8.00

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2-YEAR FREQUENCY STORM SEWER CALCULATIONS:

STORM SEWER CALCULATIONS

Storm Frequency: 2 year

Runoff Coefficient: Business Districts 0.80

Project: KATY ISD NEW OPPORTUNITY AWARENESS CENTER
Job No.: 25005-01
By: SN
Date: 5/12/2026

b = 48.35
d = 9.07
e = 0.7244

HGL Starting Elevation = 134.24
Total Drainage Area = 4.24 acres

C:\Users\eperez\Adico Dropbox\ADICO\ALLC\00 - CLIENTS\207 - VLK\207-25-005-01 KISD New Opportunity Awareness Center\2 - Eng\Storm Computations\[Storm Sewer Calculations KISD New Opportunity Awareness Center.xlsx]storm sewer design

M.H.	M.H.	Pipe Length	Pipe Size	Pipe	Pipe Slope	Area	Area	Runoff Coeff.	Total Area	Time of Conc.	Intensity I	Inlet Flows	Sum of Flows	Design Flow	Design Velocity	Actual Velocity	Hydraulic Gradient	Change in Head	Upstream Top of Grate	Hydraulic Grade M.H. From	Hydraulic Grade M.H. To	M.H. Drop D.S.	Pipe Flowline U.S.	Pipe Flowline D.S.	Depth from Gutter Line to HGL	Pipe Cover U.S.	Pipe Cover D.S.	Travel Time
From	To	(feet)	(inches)	Material	%	(SF)	(acres)	C	(acres)	(min.)	(in./hr.)	(cfs)	(cfs)	(cfs)	(fps)	(fps)	(%)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(minutes)
System A																													
A6	A5	246.00	10	HDPE	0.40%	9,920.0	0.23	0.80	0.23	22.7	3.95	0.72	0.72	1.64	3.00	1.32	0.077%	0.19	140.00	137.02	136.83	1.85	136.98	136.00	2.98	2.19	3.17	3.11
A5	A4	77.00	15	HDPE	0.23%	22,597.0	0.52	0.80	0.75	25.8	3.69	1.53	2.25	3.66	2.98	1.83	0.087%	0.07	140.00	134.87	134.80		133.73	133.55	5.13	5.02	5.20	0.70
A4	A3	128.00	15	HDPE	0.23%	14,710.0	0.34	0.80	1.08	26.5	3.64	0.98	3.23	3.66	2.98	2.63	0.179%	0.23	140.00	134.74	134.51		133.55	133.26	5.26	5.20	5.49	0.81
A3	A2	105.00	18	HDPE	0.18%	10,244.0	0.24	0.80	1.38	27.3	3.58	0.67	4.09	5.27	2.98	2.31	0.109%	0.11	140.00	134.43	134.32		133.01	132.82	5.57	5.49	5.68	0.76
A2	A1	45.00	18	HDPE	0.18%	8,501.0	0.20	0.80	1.57	28.1	3.52	0.55	4.64	5.27	2.98	2.63	0.140%	0.06	140.20	134.30	134.24		132.82	132.74	5.90	5.88	5.96	0.29
A1	EX	81.00	24	HDPE	0.12%	4,951.0	0.11	0.80	1.80	28.4	3.51	0.32	5.37	9.26	2.95	1.71	0.040%	0.03	141.48	134.17	134.14		132.24	132.14	7.31	7.24	7.34	0.79
A1.1	A1	118.00	8	HDPE	0.54%	4,957.0	0.11	0.90	0.11	21.8	4.03	0.41	0.41	1.05	3.01	1.18	0.083%	0.10	143.00	138.34	138.24	4.00	138.21	137.57	4.66	4.13	4.76	1.66
A3.1	A3	59.00	8	HDPE	0.54%	2,444.0	0.06	0.80	0.06	21.0	4.11	0.18	0.18	1.05	3.01	0.53	0.017%	0.01	141.63	136.52	136.51	2.00	136.16	135.84	5.11	4.80	5.12	1.86
A10	A9	64.00	12	HDPE	0.31%	26,897.0	0.62	0.80	0.62	24.2	3.82	1.89	1.89	2.34	2.98	2.40	0.201%	0.13	139.00	135.76	135.63		134.73	134.53	3.24	3.27	3.47	0.44
A9	A8	198.00	15	HDPE	0.23%	30,852.0	0.71	0.80	1.33	24.6	3.78	2.14	4.03	3.66	2.98	3.28	0.279%	0.55	139.80	135.63	135.08		134.28	133.83	4.17	4.27	4.72	1.00
A8	A7	87.00	24	HDPE	0.12%	25,428.0	0.58	0.80	1.91	25.6	3.70	1.73	5.76	9.26	2.95	1.83	0.046%	0.04	139.80	135.01	134.97	0.25	133.08	132.97	4.79	4.72	4.83	0.79
A7	EX	90.00	24	HDPE	0.84%	13,933.0	0.32	0.80	2.34	26.4	3.64	0.93	7.06	24.47	7.79	2.25	0.070%	0.06	141.00	134.03	133.97		132.72	131.97	6.97	6.28	7.03	0.67
A7.1	A7	148.00	8	HDPE	0.54%	4,957.0	0.11	0.80	0.11	21.8	4.03	0.37	0.37	1.05	3.01	1.05	0.066%	0.10	141.63	136.82	136.72	2.00	136.86	136.06	4.81	4.11	4.91	2.35
A11	EX	NA	NA	NA	NA	4,110.0	0.09	0.80	0.09	21.6	4.05	0.31	0.31	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA

100-YEAR FREQUENCY STORM SEWER CALCULATIONS:

STORM SEWER CALCULATIONS

Storm Frequency: 100 year

Runoff Coefficient: Business Districts 0.80

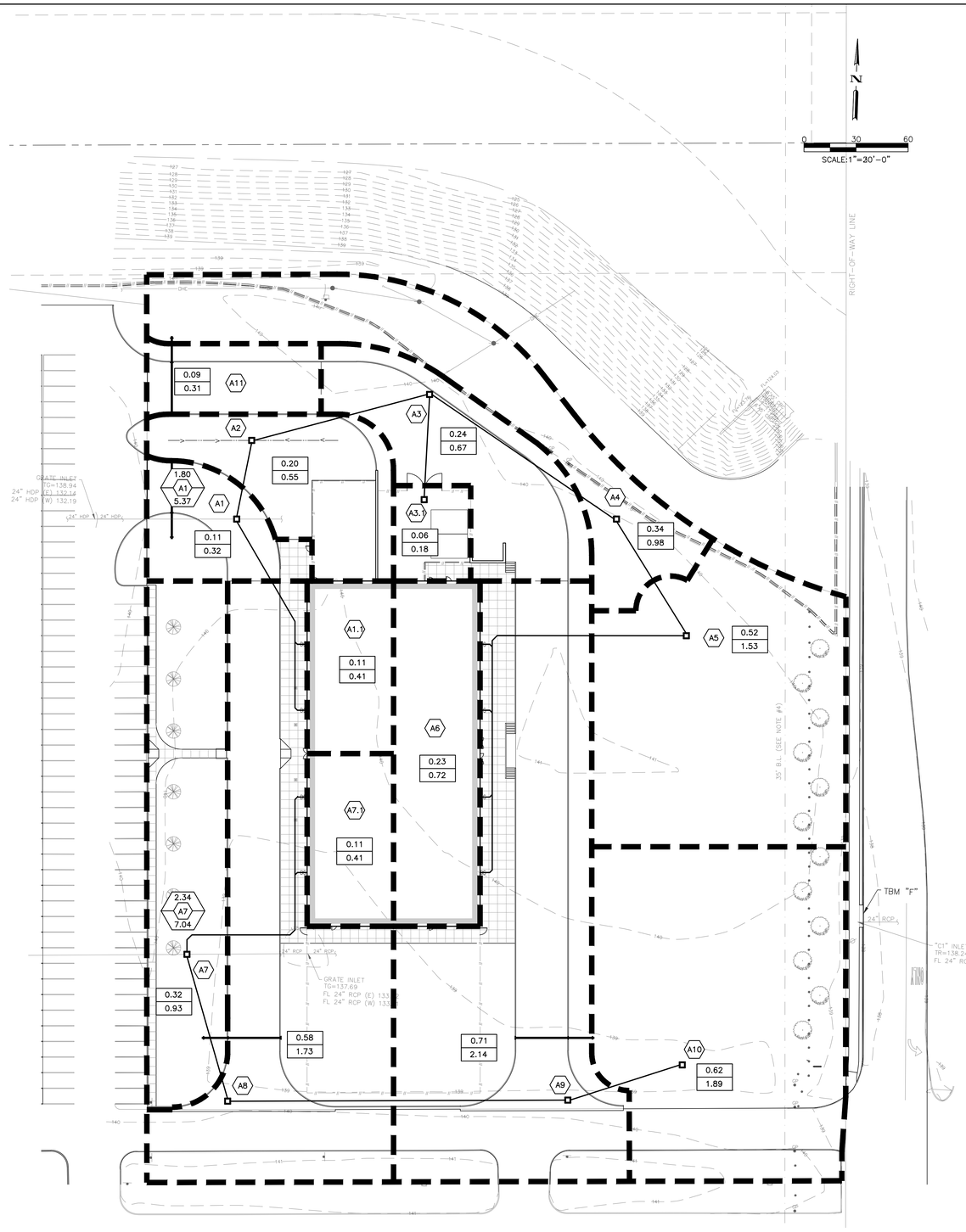
Project: KATY ISD NEW OPPORTUNITY AWARENESS CENTER
Job No.: 25005-01
By: SN
Date: 5/12/2026

b = 60.66
d = 4.44
e = 0.5797

HGL Starting Elevation = 134.32
Total Drainage Area = 4.24 acres

C:\Users\eperez\Adico Dropbox\ADICO\ALLC\00 - CLIENTS\207 - VLK\207-25-005-01 KISD New Opportunity Awareness Center\2 - Eng\Storm Computations\[Storm Sewer Calculations KISD New Opportunity Awareness Center.xlsx]storm sewer design

M.H.	M.H.	Pipe Length	Pipe Size	Pipe	Pipe Slope	Area	Area	Runoff Coeff.	Total Area	Time of Conc.	Intensity I	Inlet Flows	Sum of Flows	Design Flow	Design Velocity	Actual Velocity	Hydraulic Gradient	Change in Head	Upstream Top of Grate	Hydraulic Grade M.H. From	Hydraulic Grade M.H. To	M.H. Drop D.S.	Pipe Flowline U.S.	Pipe Flowline D.S.	Depth from Gutter Line to HGL	Pipe Cover U.S.	Pipe Cover D.S.	Travel Time
From	To	(feet)	(inches)	Material	%	(SF)	(acres)	C	(acres)	(min.)	(in./hr.)	(cfs)	(cfs)	(cfs)	(fps)	(fps)	(%)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(minutes)
System A																													
A6	A5	246.00	10	HDPE	0.40%	9,920.0	0.23	0.80	0.23	22.7	8.95	1.63	1.63	1.64	3.00	2.99	0.396%	0.98	140.00	137.90	136.92	1.85	136.98	136.00	2.10	2.19	3.17	1.37
A5	A4	77.00	15	HDPE	0.23%	22,597.0	0.52	0.80	0.75	24.1	8.70	3.61	5.24	3.66	2.98	4.27	0.471%	0.36	140.00	136.92	136.56		133.73	133.55	3.08	5.02	5.20	0.30
A4	A3	128.00	15	HDPE	0.23%	14,710.0	0.34	0.80	1.08	24.4	8.64	2.34	7.58	3.66	2.98	6.17	0.985%	1.26	140.00	136.56	135.30		133.55	133.26	3.44	5.20	5.49	0.35
A3	A2	105.00	18	HDPE	0.18%	10,244.0	0.24	0.80	1.38	24.7	8.58	1.62	9.61	5.27	2.98	5.44	0.599%	0.63	140.00	135.30	134.67		133.01	132.82	4.70	5.49	5.68	0.32
A2	A1	45.00	18	HDPE	0.18%	8,501.0	0.20	0.80	1.57	25.0	8.53	1.33	10.94	5.27	2.98	6.19	0.776%	0.35	140.20	134.67	134.32		132.82	132.74	5.53	5.88	5.96	0.12
A1	EX	81.00	24	HDPE	0.12%	4,951.0	0.11	0.80	1.80	25.2	8.51	0.77	12.65	9.26	2.95	4.03	0.224%	0.18	141.48	134.32	134.14		132.24	132.14	7.16	7.24	7.34	0.34
A1.1	A1	118.00	8	HDPE	0.54%	4,957.0	0.11	0.90	0.11	21.8	9.12	0.93	0.93	1.05	3.01	2.68	0.428%	0.51	143.00	138.74	138.24	4.00	138.21	137.57	4.26	4.13	4.76	0.73
A3.1	A3	59.00	8	HDPE	0.54%	2,444.0	0.06	0.80	0.06	21.0	9.29	0.42	0.42	1.05	3.01	1.19	0.085%	0.05	141.63	136.56	136.51	2.00	136.16	135.84	5.07	4.80	5.12	0.82
A10	A9	64.00	12	HDPE	0.31%	26,897.0	0.62	0.80	0.62	24.2	8.68	4.29	4.29	2.34	2.98	5.46	1.036%	0.66	139.00	138.71	138.05		134.73	134.53	0.29	3.27	3.47	0.20
A9	A8	198.00	15	HDPE	0.23%	30,852.0	0.71	0.80	1.33	24.4	8.64	4.90	9.18	3.66	2.98	7.48	1.447%	2.87	139.80	138.05	135.19		134.28	133.83	1.75	4.27	4.72	0.44
A8	A7	87.00	24	HDPE	0.12%	25,428.0	0.58	0.80	1.91	24.8	8.57	4.00	13.19	9.26	2.95	4.20	0.243%	0.21	139.80	135.19	134.97	0.25	133.08	132.97	4.61	4.72	4.83	0.35
A7	EX	90.00	24	HDPE	0.84%	13,933.0	0.32	0.80	2.34	25.2	8.51	2.18	16.19	24.47	7.79	5.15	0.367%	0.33	141.00	134.30	133.97		132.72	131.97	6.70	6.28	7.03	0.29
A7.1	A7	148.00	8	HDPE	0.54%	4,957.0	0.11	0.80	0.11	21.8	9.12	0.83	0.83	1.05	3.01	2.38	0.338%	0.50	141.63	137.22	136.72	2.00	136.86	136.06	4.41	4.11	4.91	1.04
A11	EX	NA	NA	NA	NA	4,110.0	0.09	0.80	0.09	21.6	9.17	0.69	0.69	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA



DETENTION NOTE:
EXISTING DETENTION CAPACITY IS PROVIDED IN DRAINAGE CHANNEL AS PART OF 150.545 ACRES DEVELOPMENT PER AGREEMENT OF DRAINAGE EASEMENT, FILE NO. G445820

100-YEAR FLOOD PLAIN INFORMATION:
ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP, HARRIS COUNTY, TEXAS, AND INCORPORATED AREAS, COMMUNITY PANEL NO. 48473C0375E MAP REVISED DATED FEBRUARY 18, 2009, THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. DETERMINE TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

BENCHMARK INFORMATION:
1. RM190195 – NGS STAINLESS STEEL ROD W/ LOGO CAP STAMPED "HGCSD24 1986" AT BUSINESS US 90, NORTH OF IH 10 LOCATED IN GROUND, IN FRONT OF HOUSTON LIGHTING & POWER, SOUTH MEDIAN BETWEEN DRIVEWAYS IN KEY MAP 444Y IN THE BARKER WATERSHED NEAR STREAM T101-03-00. ELEVATION = 140.44' (NAVD 1988, 2001 ADJ.)
2. TBM "A" – BOX CUT ON CONCRETE BASE OF LIGHT STANDARD LOCATED IN THE MEDIAN OF THE MOST EASETERLY DRIVE CONNECTING RHODES STADIUM AND LEGACY STADIUM. ELEVATION = 144.39'
3. TBM "F" – BOX CUT ON TOP OF "C" INLET LOCATED ON THE WEST SIDE OF KATY FORT BEND ROAD ±1765 FEET SOUTH OF FRANZ ROAD AND ±875' NORTH OF COLONIAL PARKWAY. ELEVATION = 138.22'

DRAINAGE LEGEND

- DRAINAGE AREA BOUNDARY
- SYSTEM BOUNDARY
- 1.21 / 2.10 — ACREAGE (AC) / 2-YEAR RUNOFF (CFS)
- CUMULATIVE ACREAGE (AC)
- 3.25 / 12 / 9.25 — MANHOLE NUMBER / CUMULATIVE 2-YEAR RUNOFF (CFS)
- SHEET FLOW DIRECTION
- OFFSITE SHEET FLOW DIRECTION

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1745 KATY FORT BEND ROAD
KATY, TEXAS 77493

NEW OPPORTUNITY AWARENESS CENTER

ADICO, LLC
TBPE FIRM NO. F-16423
STATE OF TEXAS · DINH HOANG NGUYEN · 99284 · LICENSED · PROFESSIONAL ENGINEER
05-26-2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

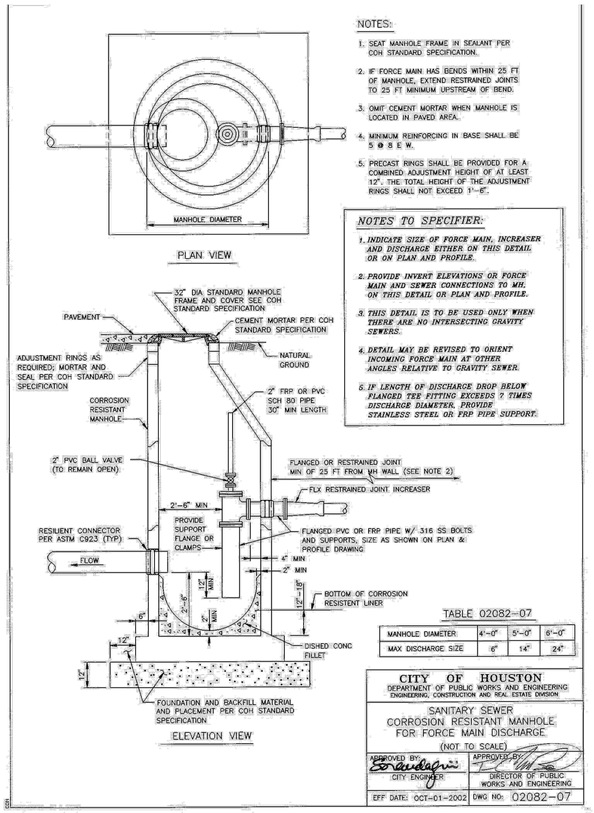
Principal DINH H.
Proj. Eng. PHASITH N.

PROJECT NO.
25-0067.00

SHEET TITLE
DRAINAGE AREA MAP

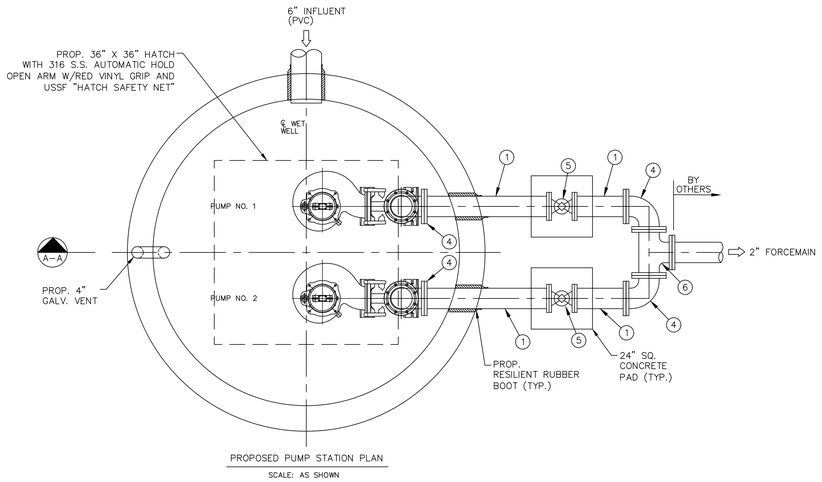
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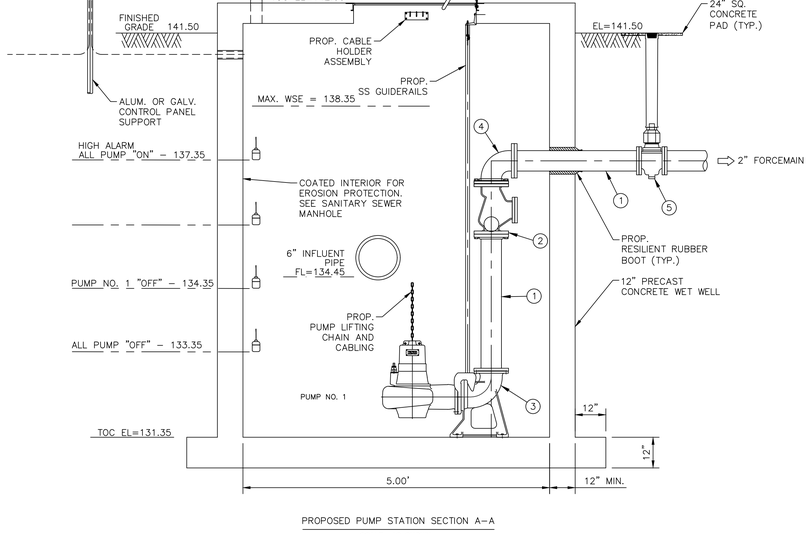
SANITARY FORCE MAIN MANHOLE

SCALE: N.T.S.



PROPOSED PUMP STATION PLAN

SCALE: AS SHOWN



PROPOSED PUMP STATION SECTION A-A

SCALE: AS SHOWN

SANITARY SEWER LIFT STATION

SCALE: N.T.S.

NOTES

1. REINFORCED CONCRETE PIPE (RCP) SECTION SHALL BE FOR USE IN WET WELL CONSTRUCTION, WHERE INTERNAL PRESSURE HEAD DOES NOT EXCEED 40 FEET.
2. RCP SECTION SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ACI 350R-01, ASTM C913-02, AND ASTM C890-91.
3. CONCRETE SHALL BE CLASS I/II WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI.
4. WELDED WIRE REINFORCEMENT (WWR) TO MEET ASTM A185 WITH MIMIMUM YIELD STRENGTH OF 65,000 PSI. ALTERNATE REINFORCEMENT CAGE CONFIGURATIONS AND STYLES MAY BE USED IF AN EQUIVALENT REINFORCEMENT AREA IS PROVIDED.
5. ADDITIONAL CIRCUMFERENTIAL REINFORCEMENT HAS BEEN INCLUDED IN THE DESIGN, FOR PLACEMENT PURPOSES, TO ACCOUNT FOR PIPE PENETRATIONS. SIZE OF OPENINGS NOT TO EXCEED 24" IN DIAMETER.
6. SUPPLY AND INSTALL ONE (1) 36" X 36" ALUMINUM HATCH TO BE RATED FOR 300 POUNDS PER SQUARE FEET (PSF), WITH SKID RESISTANT FLOOR PLATE, STAINLESS STEEL TAMPER PROOF BOLTING, HINGES AND SLAMLOCK WITH USSF "HATCH SAFETY NET". VERIFY DIMENSIONS AND COORDINATE INSTALLATION WITH HATCH MANUFACTURER.
7. PUMP CONTROLS SHALL BE INSTALLED INSIDE A NEMA 3R ENCLOSURE WITH ALUMINUM INNER DOOR, 304 STAINLESS STEEL WITH PADLOCKABLE HANDLE.
8. FIELD EXCAVATION AND PREPARATION SHALL BE COORDINATED AND COMPLETED BY CONTRACTOR.
9. ALL ADDITIONAL PIPING REQUIRED BUT NOT SHOW TO BE PROVIDED BY CONTRACTOR.
10. CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS, DIMENSIONS AND ORIENTATION OF PIPING (INFLUENT AND EFFLUENT) PRIOR TO FABRICATION AND/OR CONSTRUCTION.
11. PROVIDE TWO (2) SUBMERSIBLE PUMPS WITH THE FOLLOWING OPERATING CONDITION(S):
DESIGN POINT 1: 80 GPM @ 217' TDH

STATION OPERATION TABLES		
RISING LEVEL CYCLE		
WATER LEVEL ELEVATION	ACTION	PUMP(S) IN OPERATION
133.35	PUMP OFF LEVEL - NO ACTION	ALL PUMPS OFF
134.35	PUMP NO. 1 TURNS ON	PUMP NO. 1 ON
137.35	PUMP NO. 2 TURNS ON	PUMP NO. 2 ON
137.35	HIGH LEVEL ALARM "ON"	ALARM "ON"
FALLING LEVEL CYCLE		
WATER LEVEL ELEVATION	ACTION	PUMP(S) IN OPERATION
137.35	HIGH LEVEL ALARM "OFF"	ALARM "OFF"
134.35	ALL PUMPS "OFF"	PUMPS "OFF"

SET PUMP TO ALTERNATE OPERATION

FITTING SCHEDULE		
MARK	SIZE	DESCRIPTION
1	2"	SPOOL PIECE (DIP, FE)
2	2"	BALL CHECK VALVE
3	2"	DISCHARGE ELBOW
4	2"	90° BEND (DIP, FE)
5	2"	GATE VALVE (FE)
6	2"	TEE (DIP, FE)

PUMP DATA TABLE	
PUMP CHARACTERISTICS	PUMP NO. 1,2
MOTOR DATA	
NOMINAL SIZE (HP)	2
MAX SPEED (RPM)	3450
CAPACITY (GPM)	
DESIGN	18
RUNOUT	35
DISCHARGE HEAD (FT)	
DESIGN	20
RUNOUT	30
SHUT OFF	9
EFFICIENCY (%)	
DESIGN	87

PUMP MANUFACTURE: MYER VF20-43-20, GRINDER PUMP 3 PHASE, 60 HZ OR APPROVED EQUALS BY ENGINEER.

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ADICO, LLC
TBPE FIRM NO. F-16423

1745 KATY FORT BEND ROAD
KATY, TEXAS 77493

NEW OPPORTUNITY AWARENESS CENTER

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

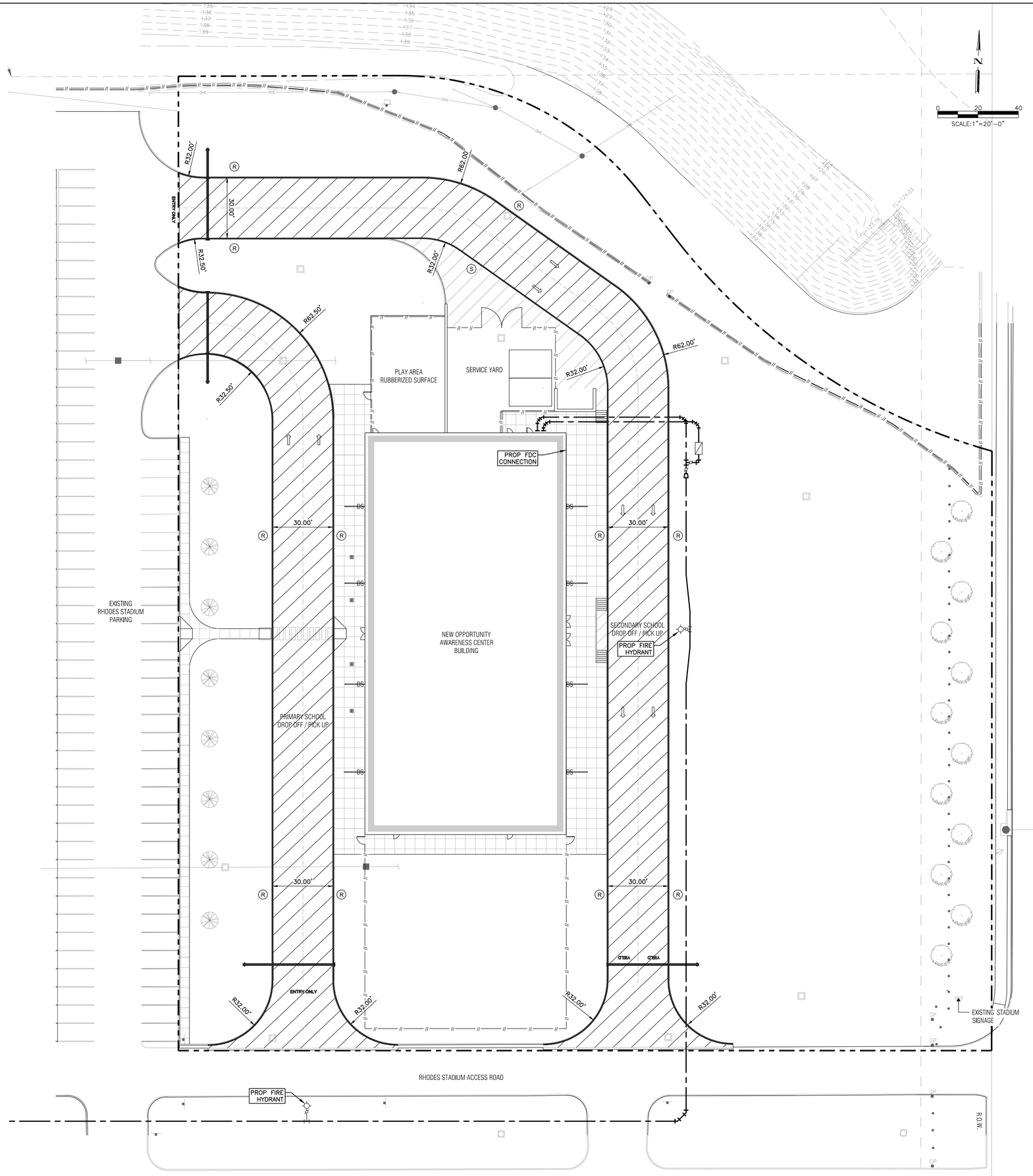
Principal DINH H.
Proj. Eng. PHASITH N.

PROJECT NO.
25-0067.00

SHEET TITLE
SANITARY SEWER LIFT STATION

SHEET NO.
C10.00

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FIRE ACCESS ROAD/FIRE LANE NOTES:

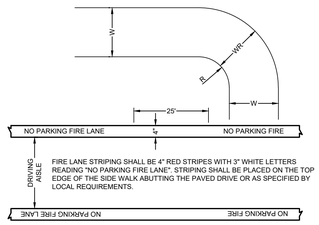
1. ANY COLOR OTHER THAN RED MAY BE USED IN "NO PARKING" AREAS THAT ARE NOT APPROVED FIRE LANES.
2. RED COLORED CURBS, PAVEMENT STRIPING OR WHEEL STOPS SHALL BE USED ONLY TO DESIGNATE APPROVED FIRE LANES.
3. WHERE FIRE LANES ARE CLEARLY DEFINED BY CURB/PAVEMENT STRIPING, FIRE LANE SIGNS ARE NOT REQUIRED.
4. ALL CURBS LOCATED ON EITHER SIDE OF A FIRE LANE SHALL BE PAINTED RED OR A RED STRIPE SHALL BE PLACED ALONE THE PAVEMENT WHERE THERE IS NO CURB. PAINTED CURBS AND FIRE LANE STRIPED SHALL ALSO BE CONSPICUOUSLY AND LEGIBLY MARKER WITH THE WARNING "FIRE LANE–TOW AWAY ZONE" IN WHITE LETTERS AT LEAST THREE (3) INCHES IN HEIGHT, AT INTERVALS NOT EXCEEDING (50) FEET.

FIRE LANE/ACCESS LEGEND:

- DESIGNATED FIRE LANE AREA FOR PERMIT APPROVAL PURPOSES. VERIFY FINAL APPROVED LOCATION WITH ARCHITECTURAL PLANS.
- (R) PAINT CURBS WITH RED PAINT TO SIGNIFY FIRE LANE.
- (S) (S) PAVEMENT SHALL BE PAINTED WITH RED STRIPED TO SIGNIFY FIRE LANE.

W	R	WR
20'	30'	30' MIN.
25'	20'	30' MIN.
30'	10'	30' MIN.

W = WIDTH (FEET) OF FIRE LANE
R = RADIUS NECESSARY TO ACCOMMODATE FIRE VEHICLES
WR = TURNING RADIUS PAVEMENT WIDTH



FIRE LANE STRIPING DETAIL

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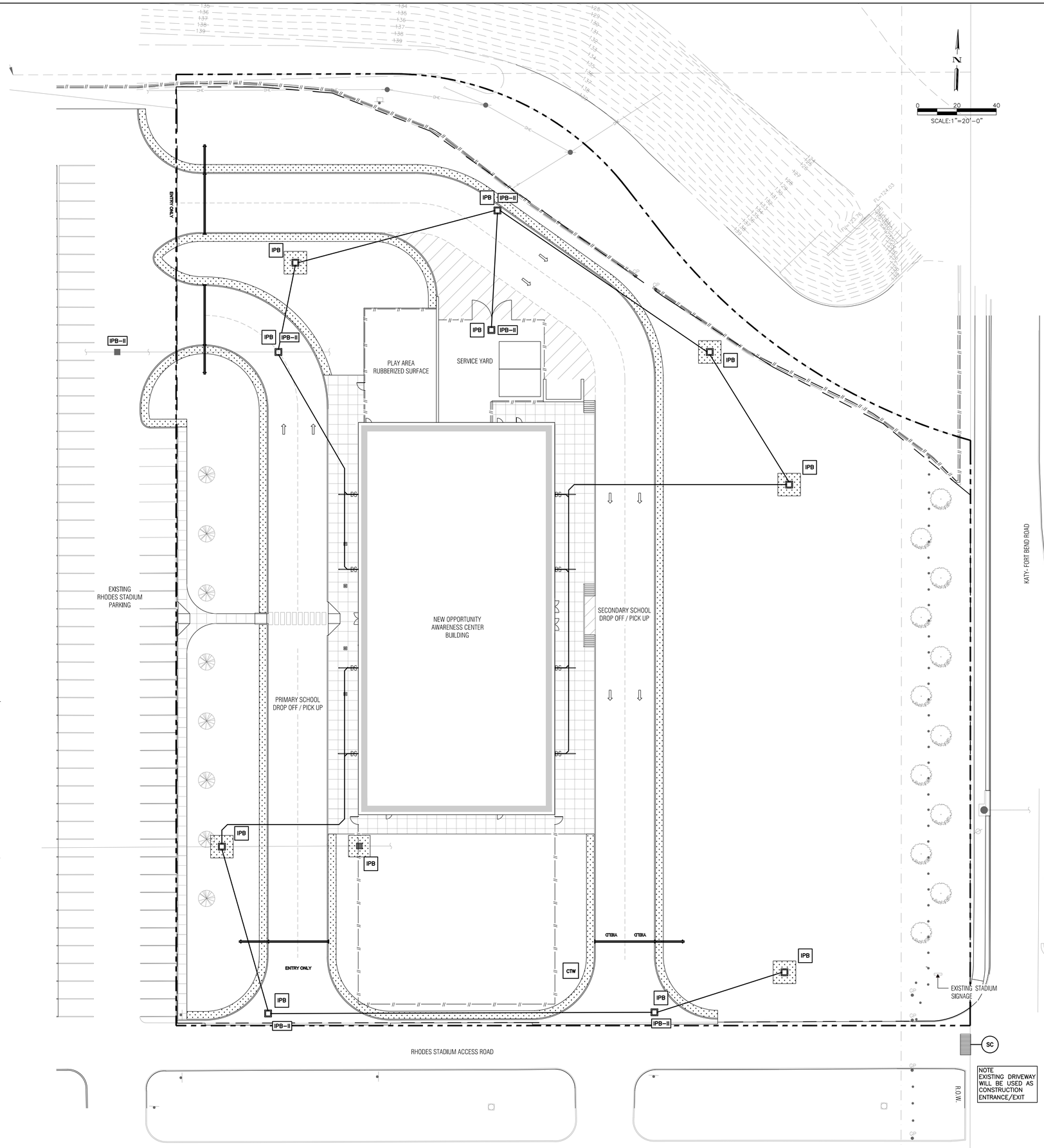
Principal DINH H.
Proj. Eng. PHASITH N.

PROJECT NO.
25-0067.00

SHEET TITLE
FIRE ACCESS LANE

SHEET NO.
C11.00

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POLLUTION PREVENTION NOTES:

1. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL INSTALL POLLUTION PREVENTION SYSTEMS AT LOCATIONS SHOWN ON PLANS.
2. IF POLLUTION PREVENTION SYSTEMS ARE EXISTING FROM PRIOR CONTRACTS, OWNER AND/OR OWNER'S REPRESENTATIVE WITH THE CONTRACTOR SHALL EXAMINE THE EXISTING POLLUTION PREVENTION SYSTEMS FOR DAMAGE PRIOR TO CONTRACTOR STARTING CONSTRUCTION OF THE CONTRACT. ANY DAMAGE NOTED AT THIS ITEM SHALL BE REPAIRED AT OWNER'S EXPENSE.
3. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY. ALL CONSTRUCTION STORM RUNOFF SHALL COMPLY WITH THE TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM (TPDES) REQUIREMENTS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ENFORCEMENT OF TPDES REQUIREMENTS PER "GENERAL REQUIREMENTS FOR PERMIT TXR150000".
5. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING GENERAL SOURCE CONTROLS.
6. THE LOCATION OF THE STABILIZED CONSTRUCTION ACCESS IS TO BE DETERMINED BY THE CONTRACTOR.
7. ALL RESERVES AND AREAS BETWEEN BACK-OF-CURB AND RIGHT-OF-WAY SHALL BE HYDRO-MULCHED SEEDED. ALL LOTS AND OTHER AREAS DISTURBED DURING CONSTRUCTION SHALL BE BROADCAST SEEDED.
8. CONTRACTOR SHALL INSPECT ALL POLLUTION PREVENTION SYSTEMS SPECIFIED HEREIN, AS REQUIRED IN THE PERMIT.
9. CONTRACTOR SHALL MAINTAIN, REPAIR AND/OR REPLACE DAMAGED EROSION AND SEDIMENTATION CONTROL SYSTEMS THROUGHOUT THE DURATION OF THE CONTRACT.
10. CONTRACTOR SHALL PROVIDE PROTECTED STORAGE AREAS FOR CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS AND OTHER POTENTIALLY TOXIC MATERIALS.
11. CONTRACTOR SHALL LOCATE FUEL/MATERIAL STORAGE AREAS AWAY FROM STORM WATER CONVEYANCE SYSTEMS. CONTRACTOR SHALL USE A LINER UNDER ABOVE GROUND STORAGE TANKS. CONTRACTOR SHALL USE FILTER FABRIC FENCING, HAY BALES, OR BERMS AROUND FUEL STORAGE AREAS.
12. CONTRACTOR SHALL ADVISE OWNER IMMEDIATELY, VERBALLY, AND IN WRITING OF ANY FUEL OR TOXIC MATERIAL SPILLS ONTO THE PROJECT/CONSTRUCTION AREA AND THE ACTIONS TAKEN TO REMEDY THE PROBLEM.
13. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF HIS FUELS, MATERIALS, AND CONTAMINATED EXCAVATIONS IN A LEGALLY APPROVED MANNER.
14. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATELY MAINTAINED SANITARY FACILITIES.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR STREET CLEANING, ON A DAILY BASIS, ALL MUD AND DIRT DEPOSITED ON THE EXISTING PAVEMENT DUE TO HIS CONSTRUCTION ACTIVITY.
16. CONTRACTOR SHALL PROVIDE A STABILIZED CONSTRUCTION ENTRANCE/EXIT.
17. SEDIMENT WILL BE REMOVED FROM BEHIND THE FILTER FABRIC FENCE WHEN IT BECOMES ABOUT ONE-THIRD OF THE HEIGHT OF THE FENCE.
18. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE HAS BEEN ESTABLISHED, STRUCTURAL CONTROLS WILL BE REMOVED AND ALL DISTURBED AREAS WILL BE RESTABILIZED.
19. AT THE COMPLETION OF THE PROJECT/CONTRACT, THE OWNER AND/OR OWNER'S REPRESENTATIVE AND THE CONTRACTOR SHALL EXAMINE THE POLLUTION PREVENTION SYSTEM BEFORE RELIEVING CONTRACTOR OF HIS MAINTENANCE RESPONSIBILITIES.

SWPPP LEGEND:

FF	FILTER FABRIC FENCE
RFF	REINFORCED FILTER FABRIC FENCE
IPB–II	INLET PROTECTION BARRIER (STAGE II INLET)
IPB	INLET PROTECTION BARRIER
SC	STABILIZED CONSTRUCTION ENTRANCE/EXIT
FD–TYPE1	FILTER DAM – TYPE 1
CTW	CONCRETE TRUCK WASHOUT
	SOD (1 ROW ALONG ROAD) (2 ROWS AROUND INLET)

NOTE: SEE C13.00 FOR STORM WATER POLLUTION PREVENTION DETAILS

VLK

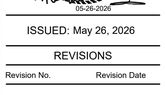
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ADICO, LLC
TBPE FIRM NO. F-16423



ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Principal DINH H.
Proj. Eng. PHASITH N.

PROJECT NO.
25-0067.00

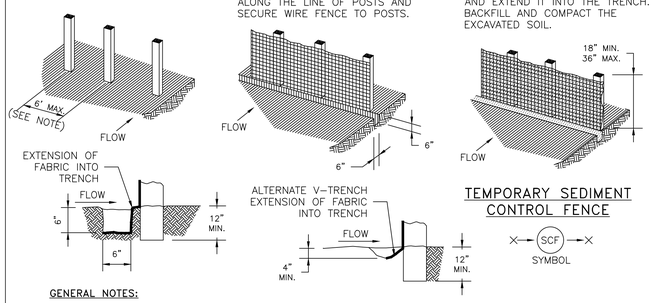
SHEET TITLE
STORM WATER POLLUTION PREVENTION PLAN

SHEET NO.
C12.00

1745 KATY FORT BEND ROAD
KATY, TEXAS 77493

NEW OPPORTUNITY AWARENESS CENTER

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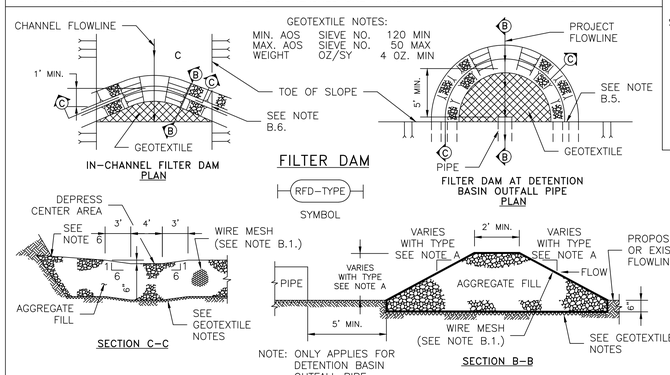


TEMPORARY SEDIMENT CONTROL FENCE

SCF SYMBOL

GENERAL NOTES:

1. SECURELY FASTEN MESH FENCING TO POSTS WITH STAPLES, TIE WIRES, OR RINGS.
2. SECURELY FASTEN FILTER FABRIC TO MESH FENCING.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT A POST, FOLD TOGETHER, AND ATTACH TO A POST.
4. REMOVE SEDIMENT DEPOSITS WHEN SILT REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE IN DEPTH.



FILTER DAM

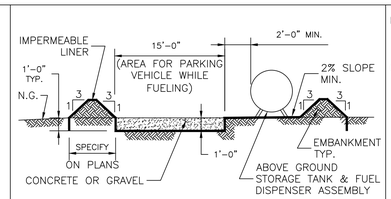
RFD-TYPE SYMBOL

A. TYPES OF FILTER DAMS

1. TYPE 1 (NON-REINFORCED)
   a. HEIGHT – 18-24 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH – 2 FEET (MINIMUM)
   c. SLOPES – 2:1 (MAXIMUM).
2. TYPE 2 (REINFORCED).
   a. HEIGHT – 18-36 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH – 2 FEET (MINIMUM).
   c. SLOPES – 2:1 (MAXIMUM).
3. TYPE 3 (REINFORCED)
   a. HEIGHT – 36-48 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH – 2 FEET (MINIMUM).
   c. SLOPES – 3:1 (MAXIMUM).
4. TYPE 4 (GABION)
   a. HEIGHT – 30 INCHES (MINIMUM). MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH – 2 FEET (MINIMUM).
5. TYPE 5. AS SHOWN ON THE PLANS.

B. CONSTRUCT FILTER DAMS ACCORDING TO THE FOLLOWING CRITERIA UNLESS SHOWN OTHERWISE ON THE PLANS.

1. TYPE 2 AND 3 FILTER DAMS: SECURE WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1 INCH DIAMETER HEXAGONAL OPENINGS.
2. PLACE AGGREGATE FILL ON THE WIRE MESH TO HEIGHT AND SLOPES SHOWN ON PLANS OR AS SPECIFIED BY THE ENGINEER.
   a. 3-5 INCHES FOR ROCK FILTER DAM TYPES 1, 2 AND 4.
   b. 4-8 INCHES FOR ROCK FILTER DAM TYPE 3.
3. FOLD WIRE MESH AT UPSTREAM SIDE OVER AGGREGATE FILL AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR RINGS.
4. IN STREAMS: SECURE OR STAKE MESH TO STREAM BED PRIOR TO AGGREGATE PLACEMENT.
5. EMBED ONE FOOT MINIMUM INTO SLOPE AND RAISE ONE FOOT HIGHER THAN CENTER OF DEPRESSED AREA AT SLOPE.

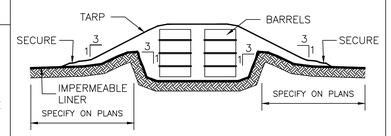


ABOVE GROUND TEMPORARY VEHICLE AND EQUIPMENT FUELING AREA WITH TANK

TFA SYMBOL

GENERAL NOTES:

1. THE SIZE OF TANK FOUNDATION AREA DEPENDS ON THE SIZE OF ABOVE GROUND STORAGE TANK AND DISPENSER ASSEMBLY.
2. PROVIDE A MINIMUM SLOPE OF 2% TOWARD THE SUMP PIT.
3. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS.

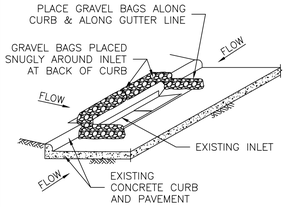


BARREL STORAGE AREA

BSA SYMBOL

GENERAL NOTES:

1. ALTERNATIVELY, STORE BARRELS IN AN ENCLOSED BUILDING OR SHED.
2. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS. 60 mil MINIMUM.
3. CONSTRUCT BERMED AREA WITH VOLUME GREATER THAN OR EQUAL TO 110% VOLUME OF BARRELS.

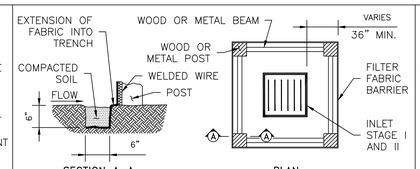


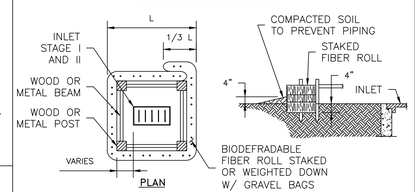
INLET PROTECTION BARRIERS FOR STAGE II INLETS

IPB-II SYMBOL

GENERAL NOTES:

1. REMOVE SEDIMENT DEPOSIT WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-THIRD THE HEIGHT OF THE BARRIER.
2. GRAVEL BAGS SHALL NOT BLOCK THROAT OF INLET UNLESS DIRECTED BY ENGINEER.



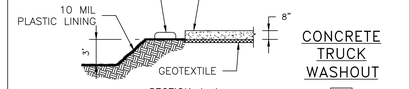


GENERAL NOTES:

1. BIODEGRADABLE FIBER ROLLS WILL BE UTILIZED ONLY WHEN SITE CONDITIONS DO NOT PERMIT THE USE OF FILTER FABRIC BARRIER AND AS APPROVED BY THE ENGINEER.

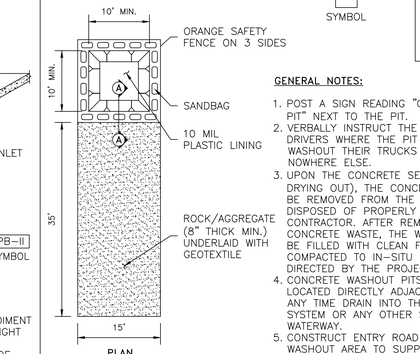
INLET PROTECTION BARRIERS FOR STAGE I INLETS

IPB SYMBOL



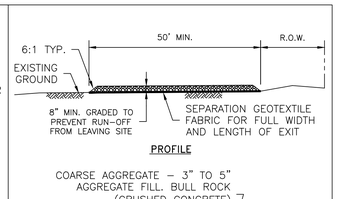
CONCRETE TRUCK WASHOUT

CTW SYMBOL



GENERAL NOTES:

1. POST A SIGN READING "CONCRETE WASHOUT PIT" NEXT TO THE PIT.
2. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASHOUT THEIR TRUCKS IN THE PIT AND NOWHERE ELSE.
3. UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASHOUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN-SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.
4. CONCRETE WASHOUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.
5. CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS EQUIPMENT.



CONSTRUCTION EXIT

CE-1 SYMBOL

GENERAL NOTES:

1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE CONSTRUCTION EXIT.
4. WHEN SHOWN ON THE CONSTRUCTION DRAWINGS, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.
7. MINIMUM 14 FEET WIDTH FOR ONE WAY TRAFFIC AND 20 FEET WIDTH FOR TWO WAY TRAFFIC.

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NEW OPPORTUNITY AWARENESS CENTER

ADICO, LLC
TBPE FIRM NO. F-16423

ISSUED: May 26, 2026

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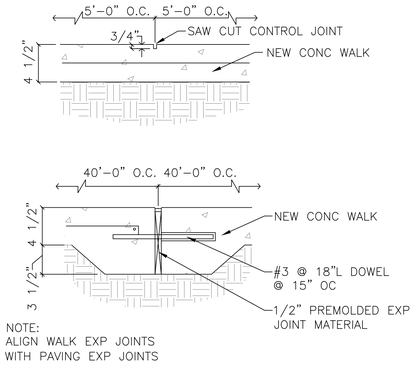
Principal DINH H.
Proj. Eng. PHASITH N.

PROJECT NO.
25-0067.00

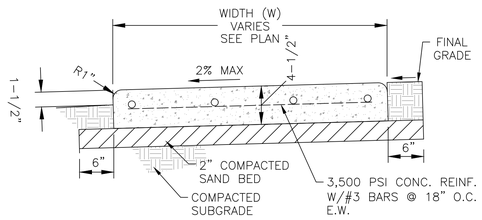
SHEET TITLE
STORM WATER POLLUTION PREVENTION DETAILS

SHEET NO.
C13.00

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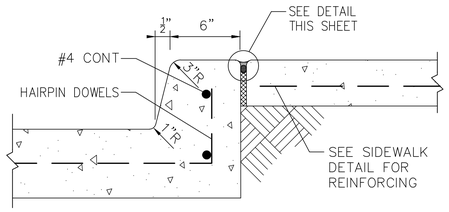


SIDEWALK CONTROL & EXPANSION JOINT

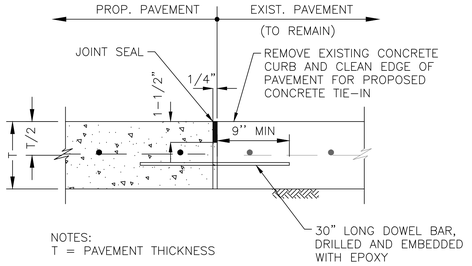


PROVIDE A SAWED JOINT SPACED EQUAL TO WIDTH (W) AND EXPANSION JOINTS TO BE PLACED @ 4 X WIDTH

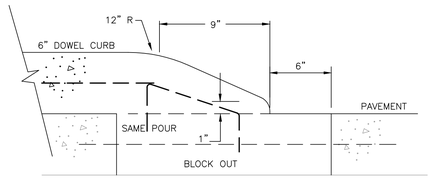
1 CONCRETE SIDEWALK DETAIL NTS



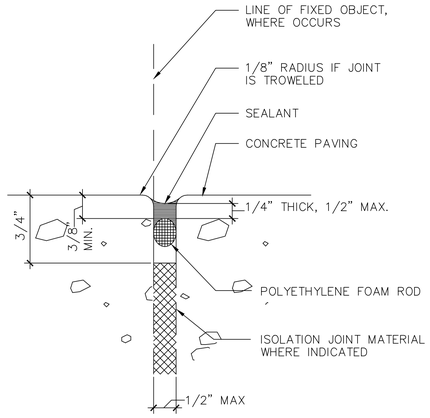
2 SIDEWALK AT CURB NTS



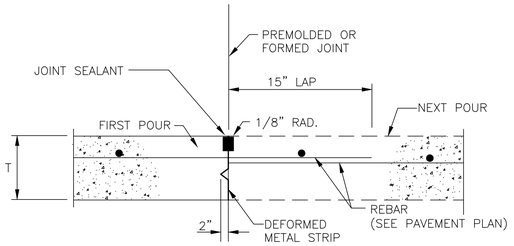
3 PROPOSED CONCRETE TO EXISTING CONCRETE TIE IN NTS



4 END OF CURB DETAIL NTS

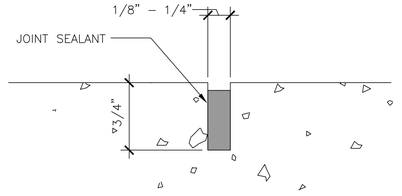


5 ISOLATION JOINT NTS



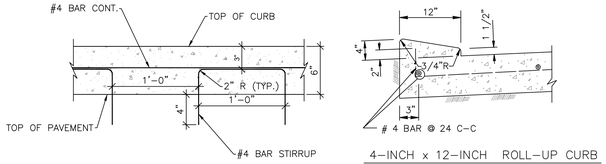
NOTE: CONSTRUCTION JOINT TO BE USED WHEN POURING OPERATION IS DELAYED (NOT TO REPLACE EXPANSION JOINT)

6 CONSTRUCTION JOINT NTS

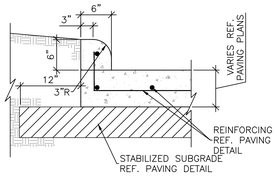


NOTE: JOINT IS TO BE SAWCUT WITHIN 2 HRS. OF CONCRETE POUR.

7 TYPICAL CONTROL JOINT (SAWCUT) NTS

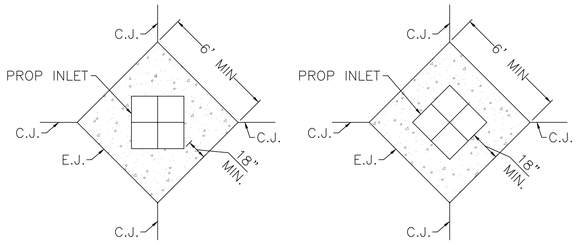


4-INCH x 12-INCH ROLL-UP CURB



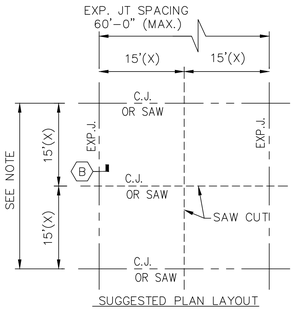
NOTES:
1. FOR NEW PAVEMENT STIRRUPS SHALL BE SET IN FRESH CONCRETE AND SECURED.
2. FOR NEW CURB ON EXISTING PAVEMENT STIRRUPS SHALL BE DRILLED AND EPOXIED INTO THE EXISTING PAVEMENT.
3. MIN COVER ON ALL REINFORCING STEEL SHALL BE 2".
4. PLACE ¾" INCH PREFORMED EXPANSION JOINTS THROUGH CURB AND GUTTERS AT LOCATIONS OF EXPANSION JOINTS IN PAVEMENT, AT END OF RADIUS RETURNS AT STREET INTERSECTIONS AND DRIVEWAYS, AND AT CURB INLETS. MAXIMUM SPACING SHALL BE 60' CENTERS.
5. PLACE ¼" TOOLED JOINTS THROUGH CURB AND GUTTERS AT LOCATIONS OF SAWED JOINTS IN PAVEMENT.

8 CONCRETE CURB NTS



NOTE: SEE STORM MANHOLE BLOCKOUT FOR RE-INFORCEMENT

9 PAVING BLOCK OUT DETAIL FOR INLETS NTS



SUGGESTED PLAN LAYOUT

NOTE:

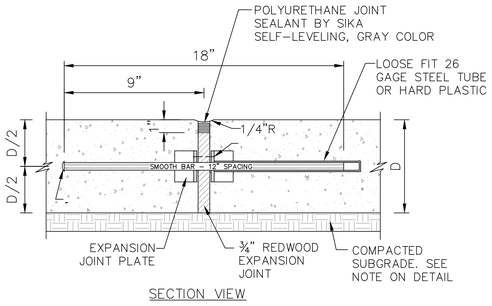
X = C.J. (CONTROL JOINT) OR SAW JOINT SPACING SHALL BE:

5" THICK = 12.5' SPACING
6" THICK = 15' SPACING
7" THICK = 15' SPACING

SAW CUT DEPTH SHALL BE 25% OF PAVING THICKNESS.

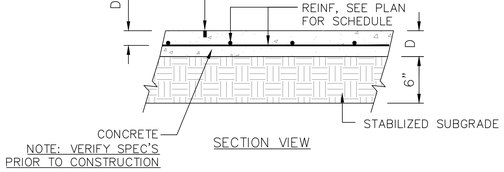
MAXIMUM SPACING FOR EXPANSION JOINT SHALL NOT EXCEED 60'.
NO EXPANSION JOINT AT LOW POINT OF PAVING

A JOINT LAYOUT



SECTION VIEW

B REINFORCED PAVING EXPANSION JOINT DETAIL



SECTION VIEW

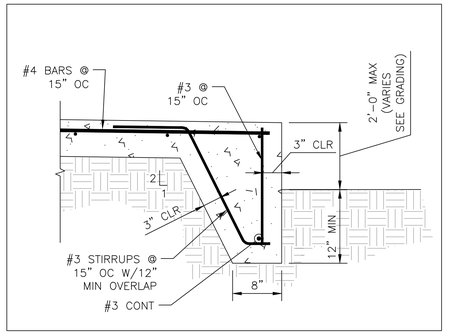
LIME-FLY ASH STABILIZED SUBGRADE (MINIMUM 5% TO 10% FLY-ASH BY DRY WEIGHT PER TXDOT STANDARD SPECIFICATIONS ITEM 265). COMPACTED TO MINIMUM 95% OF STANDARD PROCTOR DENSITY (ASTM D 698). SEE GEOTECHNICAL RECOMMENDATION PREPARED BY GEOTECH ENGINEERING AND TESTING, PROJECT NO. 25-571E, DATED MARCH 25, 2026

C PAVING DETAIL

DOWEL SCHEDULE

PAVEMENT THICKNESS D (IN)	DOWEL SIZE AND SPACINGS		
	DIAMETER (IN)	LENGTH (IN)	SPACING (IN)
4 1/2	1/2	18	12
5	1/2	18	12
6	3/4	18	12
7	1	18	12
8	1	18	12
9	1	18	12
10	1 1/4	18	12

10 TYPICAL PAVING DETAIL



11 TYPICAL SIDEWALK WITH TURNDOWN NTS

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ADICO, LLC
TBPE FIRM NO. F-16423

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Principal DINH H.
Proj. Eng. PHASITH N.

PROJECT NO.
25-0067.00

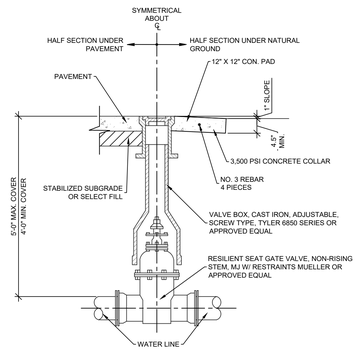
SHEET TITLE
PAVING AND GRADING DETAILS

SHEET NO.
C14.00

1745 KATY FORT BEND ROAD
KATY, TEXAS 77493

NEW OPPORTUNITY AWARENESS CENTER

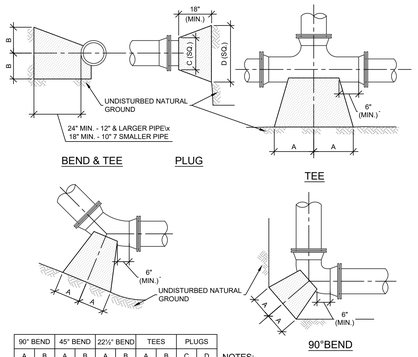
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NOTES:

1. PROVIDE OPERATING NUT EXTENSION, AS NEEDED, TO APPROXIMATELY THREE (3) FEET BELOW FINISHED GRADE.
2. VALVE BOX SHALL NOT TRANSMIT ANY LOAD DIRECTLY TO THE VALVE OR PIPE.
3. GATE VALVES SHALL BE COUNTER-CLOCKWISE OPEN.
4. SECURE TRACER WIRE INSIDE OF VALVE BOX.

GATE VALVE N.T.S.

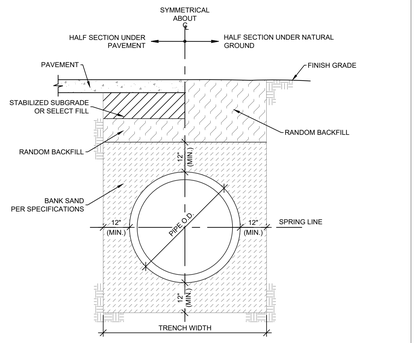


90° BEND		45° BEND		22½° BEND		TEES		PLUGS	
A	B	A	B	A	B	A	B	C	D
12"	7"	6"	7"	6"	6"	7"	8"	8"	14"
14"	8"	7"	9"	6"	6"	8"	11"	8"	18"
16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
38"	27"	21"	27"	12"	24"	24"	30"	20"	54"

NOTES:

1. THRUST BLOCKS AT TRENCH FACE MUST HAVE A MINIMUM BEARING SURFACE OF 1.0 SF AND THE LEAST DIMENSION SHALL BE NO SMALLER THAN 1.5 TIMES PIPE DIAMETER, BUT NOT LESS THAN 1.0 FT.
2. THRUST BLOCKS SHALL BE PACKED AT ALL FITTINGS.
3. ALL FITTINGS SHALL BE M.J. RESTRAINED JOINT (EBAA IRON, SERIES 2000PV, OR APPROVED EQUAL).

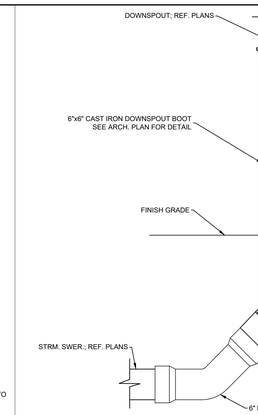
THRUST BLOCKING N.T.S.



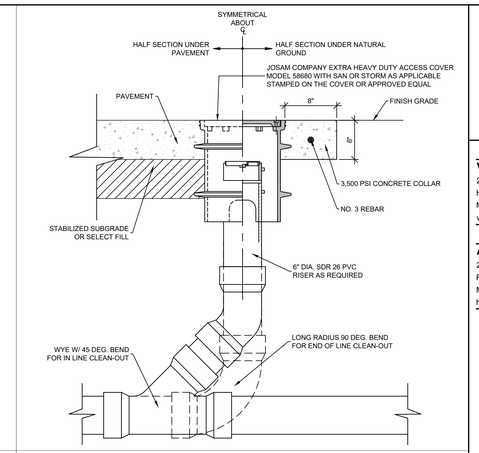
NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED SEWERS SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/-2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
3. MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 30-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 30-INCHES.

WATER LINE BEDDING & BACKFILL N.T.S.



DOWNSPOUT CONNECTION N.T.S.

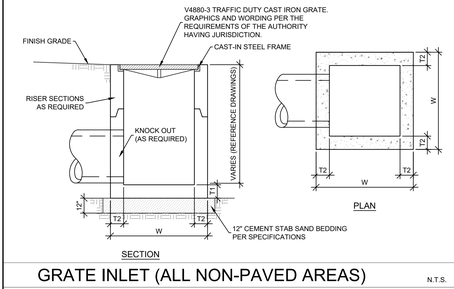


STORM SEWER CLEAN OUT N.T.S.

KNOCK OUT	W	GRATE SIZE	T1	T2
10"	15"	12"X12"X1"	3"	2 1/2"
12"	20"	14"X14"X1 1/2"	4"	3"
15"	24"	18"X18"X1 1/2"	4"	4"
17"	26"	20"X20"X1 1/2"	4"	4"
22"	32"	24"X24"X2"	5"	5"
24"	37"	27"X27"X2"	6"	6"
30"	42"	32"X32"X2"	6"	6"
32"	48"	38"X38"X2"	6"	6"
48"	60"	38"X38"X2"	6"	6"
60"	72"	38"X38"X2"	6"	6"
72"	84"	38"X38"X2"	6"	6"
84"	96"	38"X38"X2"	6"	6"

NOTES:

1. PRECAST CONCRETE MANHOLES SHALL BE MADE OF CLASS II CONCRETE WITH A DESIGN STRENGTH OF 4,500 PSI AT 28 DAYS AND RATED FOR H-20 LOADING.
2. STRUCTURAL REINFORCEMENT SHALL BE GRADE 60 CONFORMING TO ASTM A-615.
3. DEPTH OF INLET SHALL DETERMINE THE NUMBER OF RISER SECTIONS AND ADJUSTMENT RINGS REQUIRED. BRICKS SHALL NOT BE USED.
4. GROUT INSIDE AND OUTSIDE OF EXTENSION RING(S) AND ALL PIPES.
5. ALL PIPES SHALL BE CUT FLUSH WITH THE INLET.

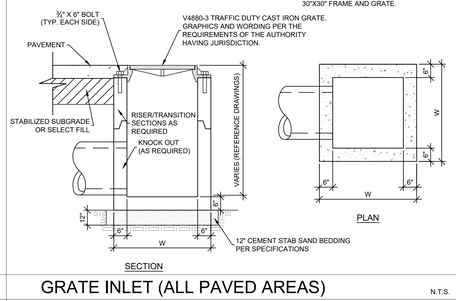


GRATE INLET (ALL NON-PAVED AREAS) N.T.S.

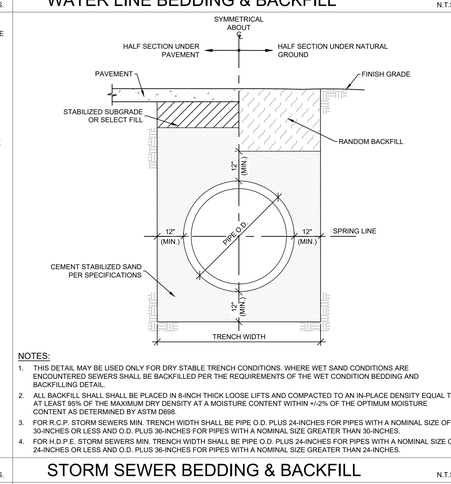
KNOCK OUT	W	GRATE SIZE
30"	42"	30"X30"X2"
36"	48"	30"X30"X2"
48"	60"	30"X30"X2"
60"	72"	30"X30"X2"
72"	84"	30"X30"X2"
84"	96"	30"X30"X2"

NOTES:

1. PRECAST CONCRETE MANHOLES SHALL BE MADE OF CLASS II CONCRETE WITH A DESIGN STRENGTH OF 4,500 PSI AT 28 DAYS AND RATED FOR H-20 LOADING.
2. STRUCTURAL REINFORCEMENT SHALL BE GRADE 60 CONFORMING TO ASTM A-615.
3. DEPTH OF INLET SHALL DETERMINE THE NUMBER OF RISER SECTIONS AND ADJUSTMENT RINGS REQUIRED. BRICKS SHALL NOT BE USED.
4. GROUT INSIDE AND OUTSIDE OF EXTENSION RING(S) AND ALL PIPES.
5. ALL PIPES SHALL BE CUT FLUSH WITH THE INLET.
6. IF BOTTOM SECTION INSIDE DIMENSIONS ARE GREATER THAN 30"X30", PROVIDE A TRANSITION SECTION TO ACCEPT A 30"X30" FRAME AND GRATE.



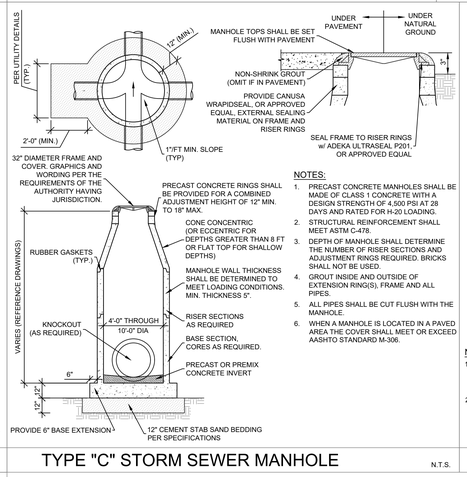
GRATE INLET (ALL PAVED AREAS) N.T.S.



NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED SEWERS SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/-2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
3. FOR R.C.P. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 30-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 30-INCHES.
4. FOR H.D.P.E. STORM SEWERS MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 24-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 24-INCHES.

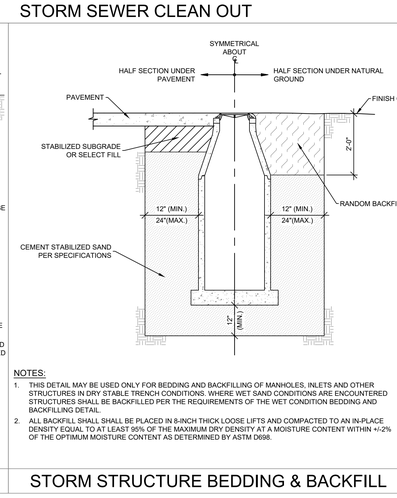
STORM SEWER BEDDING & BACKFILL N.T.S.



NOTES:

1. PRECAST CONCRETE MANHOLES SHALL BE MADE OF CLASS 1 CONCRETE WITH A DESIGN STRENGTH OF 4,500 PSI AT 28 DAYS AND RATED FOR H-20 LOADING.
2. STRUCTURAL REINFORCEMENT SHALL MEET ASTM C-478.
3. DEPTH OF MANHOLE SHALL DETERMINE THE NUMBER OF RISER SECTIONS AND ADJUSTMENT RINGS REQUIRED. BRICKS SHALL NOT BE USED.
4. GROUT INSIDE AND OUTSIDE OF EXTENSION RING(S), FRAME AND ALL PIPES.
5. ALL PIPES SHALL BE CUT FLUSH WITH THE MANHOLE.
6. WHEN A MANHOLE IS LOCATED IN A PAVED AREA THE COVER SHALL MEET OR EXCEED AASHTO STANDARD M-306.

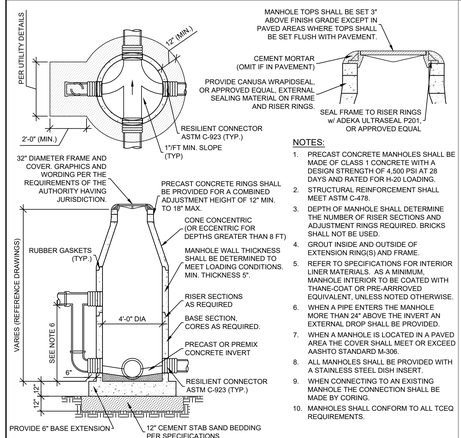
TYPE "C" STORM SEWER MANHOLE N.T.S.



NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR BEDDING AND BACKFILLING OF MANHOLES, INLETS AND OTHER STRUCTURES IN DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED STRUCTURES SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/-2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.

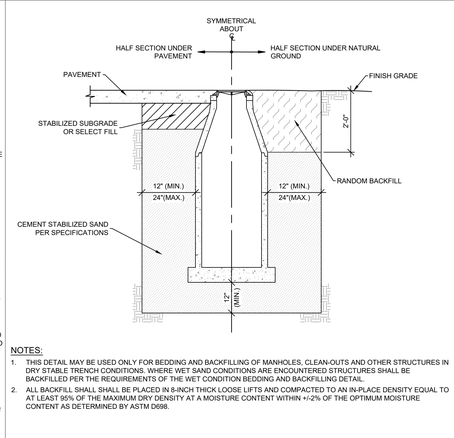
STORM STRUCTURE BEDDING & BACKFILL N.T.S.



NOTES:

1. PRECAST CONCRETE MANHOLES SHALL BE MADE OF CLASS 1 CONCRETE WITH A DESIGN STRENGTH OF 4,500 PSI AT 28 DAYS AND RATED FOR H-20 LOADING.
2. STRUCTURAL REINFORCEMENT SHALL MEET ASTM C-478.
3. DEPTH OF MANHOLE SHALL DETERMINE THE NUMBER OF RISER SECTIONS AND ADJUSTMENT RINGS REQUIRED. BRICKS SHALL NOT BE USED.
4. GROUT INSIDE AND OUTSIDE OF EXTENSION RING(S) AND ALL PIPES.
5. REFER TO SPECIFICATIONS FOR INTERIOR LINER MATERIALS. AS A MINIMUM, MANHOLE INTERIOR TO BE COATED WITH THANE-COAT OR PRE-ARROVED EQUIVALENT, UNLESS NOTED OTHERWISE.
6. WHEN A PIPE ENTERS THE MANHOLE MORE THAN 24" ABOVE THE INVERT AN EXTERNAL DROP SHALL BE PROVIDED.
7. WHEN A MANHOLE IS LOCATED IN A PAVED AREA THE COVER SHALL MEET OR EXCEED AASHTO STANDARD M-306.
8. ALL MANHOLES SHALL BE PROVIDED WITH A STAINLESS STEEL DISH INSERT.
9. WHEN CONNECTING TO AN EXISTING MANHOLE THE CONNECTION SHALL BE MADE BY CORING.
10. MANHOLES SHALL CONFORM TO ALL TCEQ REQUIREMENTS.

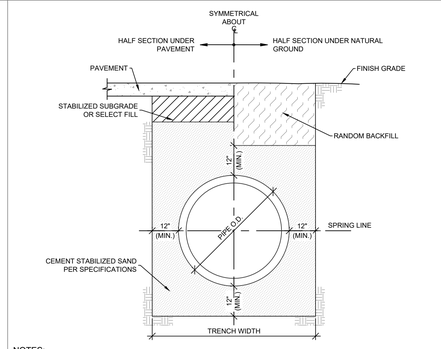
SANITARY SEWER MANHOLE N.T.S.



NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR BEDDING AND BACKFILLING OF MANHOLES, CLEAN-OUTS AND OTHER STRUCTURES IN DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED STRUCTURES SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/-2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.

SANITARY STRUCTURE BEDDING & BACKFILL N.T.S.



NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED SEWERS SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL SHALL SHALL BE PLACED IN 8-INCH THICK LOOSE LIFTS AND COMPACTED TO AN IN-PLACE DENSITY EQUAL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/-2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
3. MIN. TRENCH WIDTH SHALL BE PIPE O.D. PLUS 24-INCHES FOR PIPES WITH A NOMINAL SIZE OF 30-INCHES OR LESS AND O.D. PLUS 36-INCHES FOR PIPES WITH A NOMINAL SIZE GREATER THAN 30-INCHES.

SANITARY SEWER BEDDING & BACKFILL N.T.S.

VLK

ARCHITECT

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20445 State Hwy 249, Suite 350
Houston, Texas 77070
Main Phone: 281.671.2300
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CIVIL ENGINEER

Adico Consulting Engineers
205 E Edgewood Drive
Friendswood, Texas 77546
Main Phone: 832.895.1093
https://adico-llc.com/

ADICO, LLC
TBPE FIRM NO. F-16423

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Principal DINH H.

Proj. Eng. PHASITH N.

PROJECT NO.

25-0067.00

SHEET TITLE

MISCELLANEOUS DETAILS

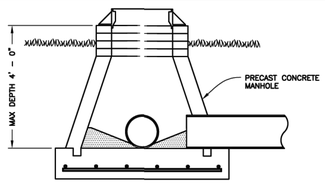
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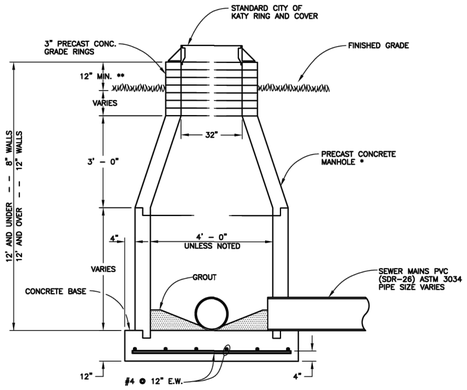
1745 KATY FORT BEND ROAD
KATY, TEXAS 77493

NEW OPPORTUNITY AWARENESS CENTER

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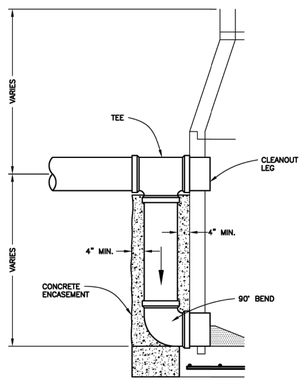
STANDARD MANHOLE
SEE DETAIL BELOW FOR MORE INFORMATION



STANDARD MANHOLE DETAIL

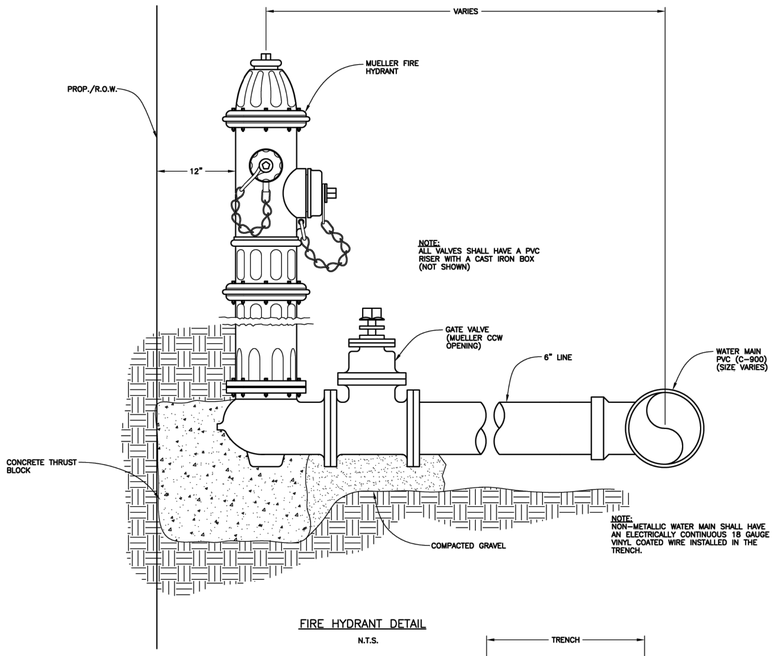
* FIBERGLASS MANHOLE MAY BE USED EXCEPT IN ROADS AND DITCHES. APPROVAL BY CITY ENGINEER. FOR FIBERGLASS MANHOLES, WRAP UPPER 3' WITH 4" OF CONCRETE AND ONE LAYER OF 1010 - 1010 W.W.M.

** EXCEPT ROAD SURFACE.

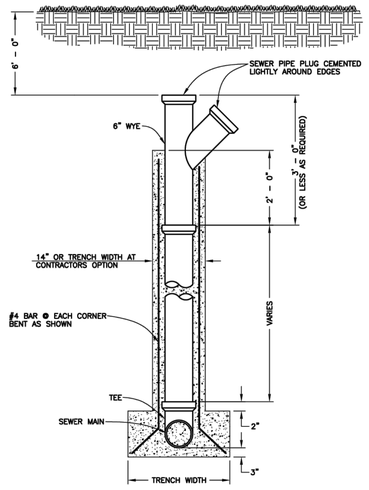


STANDARD MANHOLE WITH DROP
N.T.S.

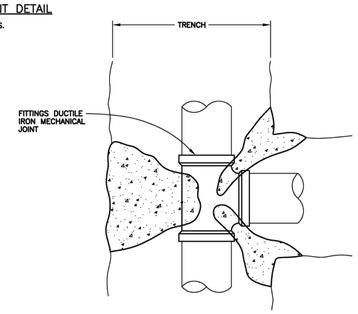
NOTE:
FOUNDATION FOR DROP SECTION TO BE POURED MONOLITHIC WITH MANHOLE BASE.



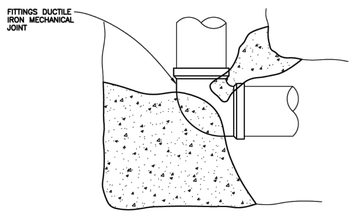
FIRE HYDRANT DETAIL
N.T.S.



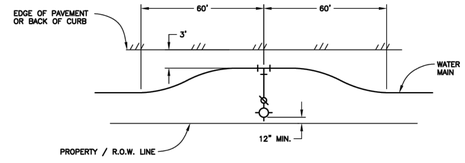
SANITARY SEWER STACK
N.T.S.



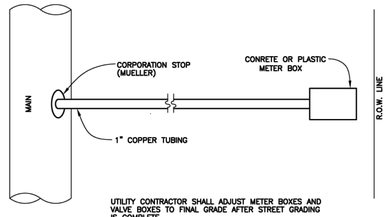
THRUST BLOCK FOR TEES
N.T.S.



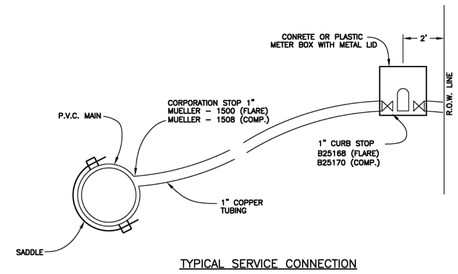
THRUST BLOCK FOR 90°, 45°, & 22.5° BENDS
N.T.S.



TYPICAL FIRE HYDRANDT LOCATION IN R.O.W.
N.T.S.



UTILITY CONTRACTOR SHALL ADJUST METER BOXES AND VALVE BOXES TO FINAL GRADE AFTER STREET GRADING IS COMPLETE.



TYPICAL SERVICE CONNECTION

CONSTRUCTION NOTES

1. ALL CONCRETE USED SHALL BE A 5 SACK PER CUBIC YARD MIX WITH 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
2. ALL WATER MAINS SHALL BE PVC (C-900). ALL SEWER MAINS SHALL BE PVC (SDR-26 ASTM 3034). WHERE SEWER MAINS CROSS UNDER PAVEMENT, THEY SHALL BE BACKFILLED WITH 1-1/2 SACK PER YARD CEMENT STABILIZED SAND.
3. ALL WATER LINES WILL BE PRESSURE TESTED AT 150 P.S.I. FOR A PERIOD OF 3 HOURS. ALL SERVICES SHALL BE SOFT COPPER WITH FLARED FITTINGS.
4. ALL WATER METER BOXES SHALL BE CONCRETE AND LOCATED AS SHOWN.

*REVISED: 10-27-09

Clay & Leyendecker, Inc.
Consulting Engineers & Surveyors
Katy, Texas
Texas Registered Engineering Firm F-2309

CITY OF KATY
MINIMUM SUBDIVISION STANDARDS FOR WATER AND SANITARY SEWER

Scale : AS NOTED
Job No. : WATR_SWR2.DWG
Dwn. By : P.T.S. | Date : 9-17-04
Sheet Number of

VLK

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Friendswood, Texas 77546
Main Phone: 832.895.1093
https://adico-llc.com/

1745 KATY FORT BEND ROAD
KATY, TEXAS 77493

NEW OPPORTUNITY AWARENESS CENTER

ADICO, LLC
TBPE FIRM NO. F-16423

STATE OF TEXAS
PHASITH NAVARATHNARAJAH
99284
LICENSED
PROFESSIONAL ENGINEER
05-26-2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

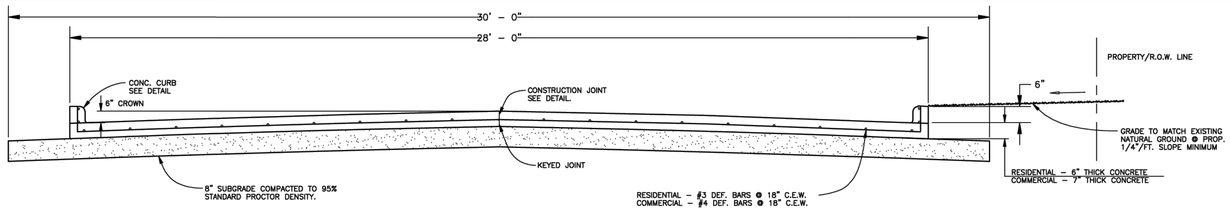
Principal DINH H.
Proj. Eng. PHASITH N.

PROJECT NO.
25-0067.00

SHEET TITLE
CITY OF KATY STANDARD DETAILS (1 OF 2)

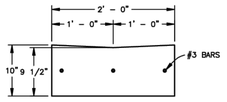
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C16.00

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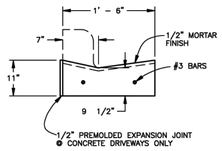


ALL REINFORCING STEEL SHALL CONFORM TO A.S.T.M. SPEC.

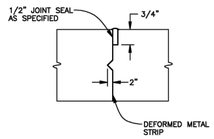
CONCRETE PAVEMENT – – CONCRETE CURB



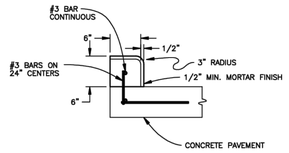
VALLEY GUTTER



CONCRETE GUTTER @ DRIVEWAY



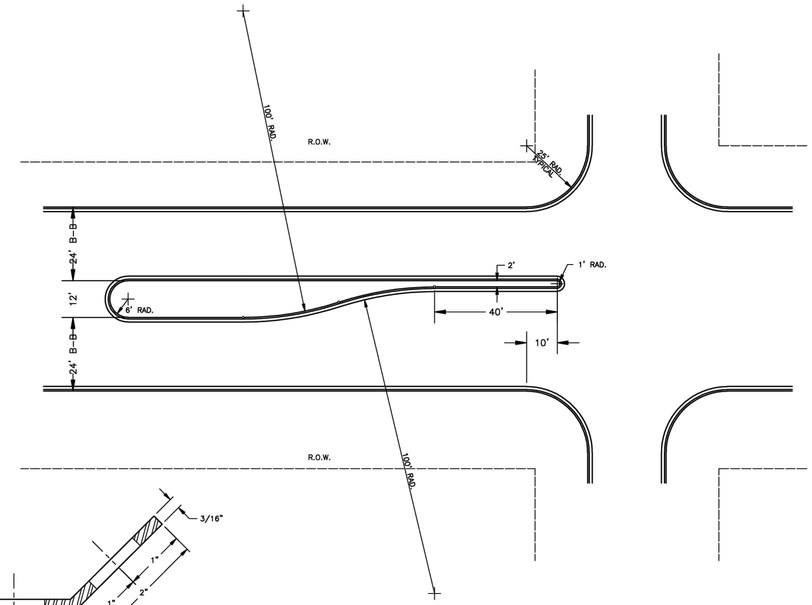
CONSTRUCTION JOINT SEAL



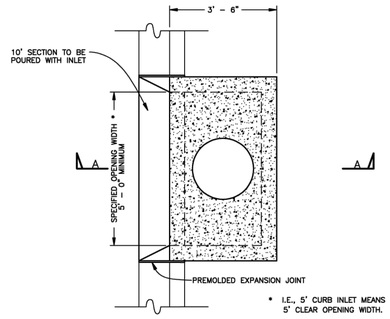
WHEN CONCRETE CURB IS TO BE PLACED ON EXISTING CONC. BASE 1/2" ø DEF. BARS, 10" LONG, 24" C–C DOWELLED & SET IN SULPHUR OR QUICK SETTING CEMENT.

MORTAR FINISH NOT REQUIRED WHEN CURB IS POURED BY MACHINE, BUT WILL HAVE THE SAME OUTSIDE DIMENSIONS.

CONCRETE CURB DETAIL

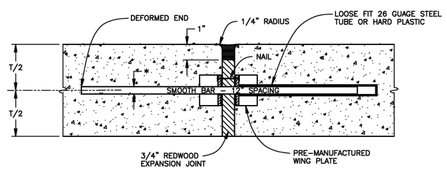


TYPICAL STREET INTERSECTION FOR BOULEVARD SECTION



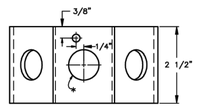
* I.E., 5' CURB INLET MEANS 5' CLEAR OPENING WIDTH.

PLAN VIEW OF CURB INLET



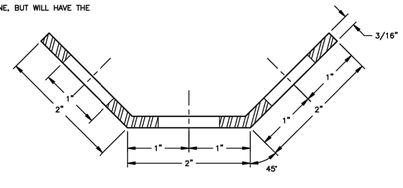
* 3/4" ø FOR RESIDENTIAL STREETS
1" ø FOR COMMERCIAL STREETS

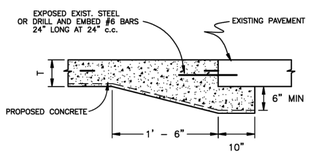
DOWELL TYPE EXPANSION JOINT



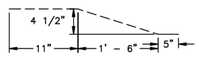
WING PLATES

* STATIONARY WING PLATE; PRESSED TO DOWEL BAR, ASSURING PERFECT 90° ALIGNMENT. LOOSE WING PLATE; CENTER HOLE 1/16" LARGER THAN BAR TO ALLOW FREE MOVEMENT AT ALL TIMES.



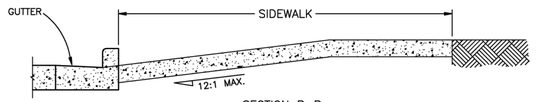


DETAIL SHOWING UNDERCUT

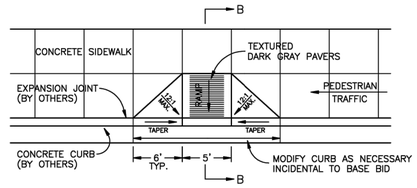


UNDERCUT BAR

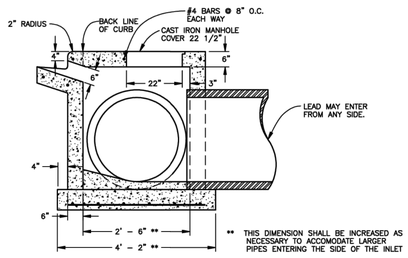
PAVING HEADER



SECTION B–B

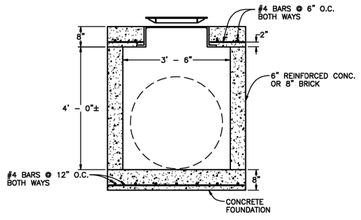


HANDICAP RAMP DETAIL

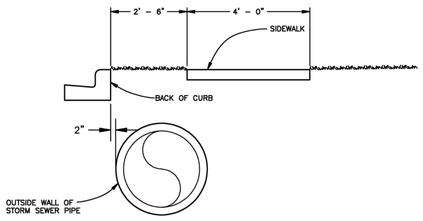


** THIS DIMENSION SHALL BE INCREASED AS NECESSARY TO ACCOMODATE LARGER PIPES ENTERING THE SIDE OF THE INLET

SECTION "A – A"



JUNCTION BOX DETAIL



TYPICAL STORM SEWER – – SIDEWALK LOCATION

CONSTRUCTION NOTES

1. ALL CONCRETE USED SHALL BE A 5 SACK PER CUBIC YARD CEMENT MIX WITH 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
2. WHERE STORM SEWER LINES CROSS UNDER PROPOSED PAVEMENT, THE TRENCH SHALL BE BACKFILLED WITH 1–1/2 SACK PER YARD OF CEMENT STABILIZED SAND.
3. ALL STORM SEWER LINES SHALL BE REINFORCED CONCRETE PIPE (CLASS III) WITH RUBBER GASKETS OR H.D.P.E. PIPE.
4. EXPANSION JOINTS SHALL BE INSTALLED AT A MAXIMUM LENGTH OF 80 FOOT ALONG THE CONCRETE STREETS AND AT ALL STREET RADII.
5. IF THE SUBGRADE HAS A P.I. OF 20 OR HIGHER, THE TOP 8 INCHES SHALL BE STABILIZED WITH 8% LIME MIXTURE AND COMPACTED TO 95% STANDARD PROCTOR.
6. IF THE SUBGRADE HAS A P.I. OF LESS THAN 20, NO STABILIZATION WILL BE REQUIRED, UNLESS ADVERSE WEATHER CONDITIONS DICTATE OTHERWISE. USE CEMENT WHERE STABILIZATION IS NEEDED.

Clay & Leyendecker, Inc.
Consulting Engineers & Surveyors
Katy, Texas
Texas Registered Engineering Firm F-2309

SUBDIVISION STANDARD PAVEMENT AND DRAINAGE DETAILS

Scale : As Noted
Job No. : Strtdtl
Dwn. By : S.P. Date : 2–10–99
Sheet Number ____ of ____

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https://adico-llc.com/

1745 KATY FORT BEND ROAD
KATY, TEXAS 77493

NEW OPPORTUNITY AWARENESS CENTER

ADICO, LLC
TBPE FIRM NO. F-16423

STATE OF TEXAS
MARK ANTHONY HINOJOSA
99284
LICENSED
PROFESSIONAL ENGINEER
05-26-2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Principal DINH H.
Proj. Eng. PHASITH N.

PROJECT NO.
25-0067.00

SHEET TITLE
CITY OF KATY STANDARD DETAILS (2 OF 2)

SHEET NO.
C17.00

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LANDSCAPE LEGEND

AREA TO RECEIVE HYDROMULCH

*PROVIDE HYDROMULTCH TO ANY AREAS DISTURBED DURING CONSTRUCTION.

AREA TO RECEIVE SOLID SOD.

*PROVIDE 1 STRIP WIDE OF SOD ADJACENT TO ALL PAVEMENT, FLATWORK AND SURROUNDING ALL AREA INLETS.

AREA TO HAVE RUBBERIZED SURFACE

LANDSCAPE REQUIREMENTS

A. STREET TREES	STREET NAME	LINEAL FEET	TREE PLANTING REQUIREMENT	TOTAL TREES REQUIRED	TOTAL TREES PLANTED
	KATY FORT BEND ROAD	297 FT	297 FT / 25 FT = 12	12	12
B. TREE REPLACEMENT	NO. OF TREES DEMOLISHED		TREE PLANTING REQUIREMENT		
	4		4 X 2 TREES = 8	8	8
E. PARKING LOT TREES	NO. OF PROPOSED PARKING SPACES (ALLOCATED FROM EXISTING)		TREE PLANTING REQUIREMENT	TOTAL TREES REQUIRED	TOTAL TREES PLANTED
	36		36 / 15 SPACES = 3 TREES	3	3
				TOTAL TREES:	23
C. SHRUBS	STREET FRONT TREE REQUIREMENT		SHRUB REQUIREMENT	TOTAL SHRUBS REQUIRED	TOTAL SHRUBS PLANTED
	12		12 / 2 TREES X 3 SHRUBS = 18	18	18
	PARKING LOT TREE REQUIREMENT		SHRUB REQUIREMENT	TOTAL SHRUBS REQUIRED	TOTAL SHRUBS PLANTED
	3		3 X 3 SHRUBS = 9	9	10
				TOTAL SHRUBS:	28
D. ADDITIONAL NOTES	1.The City of Katy requires for every 50'-0" of street frontage, 2 trees and 3 shrubs shall be planted. 2.The City of Katy requires for every 1 tree removed, 2 replacement trees shall be planted. 3.The City of Katy requires for every 15 parking spaces, 1 tree and 3 shurbs shall be planted. 4. Adjacent properties owned by Katy Independant School District. Landscape buffer not required.				

PLANTING GENERAL NOTES

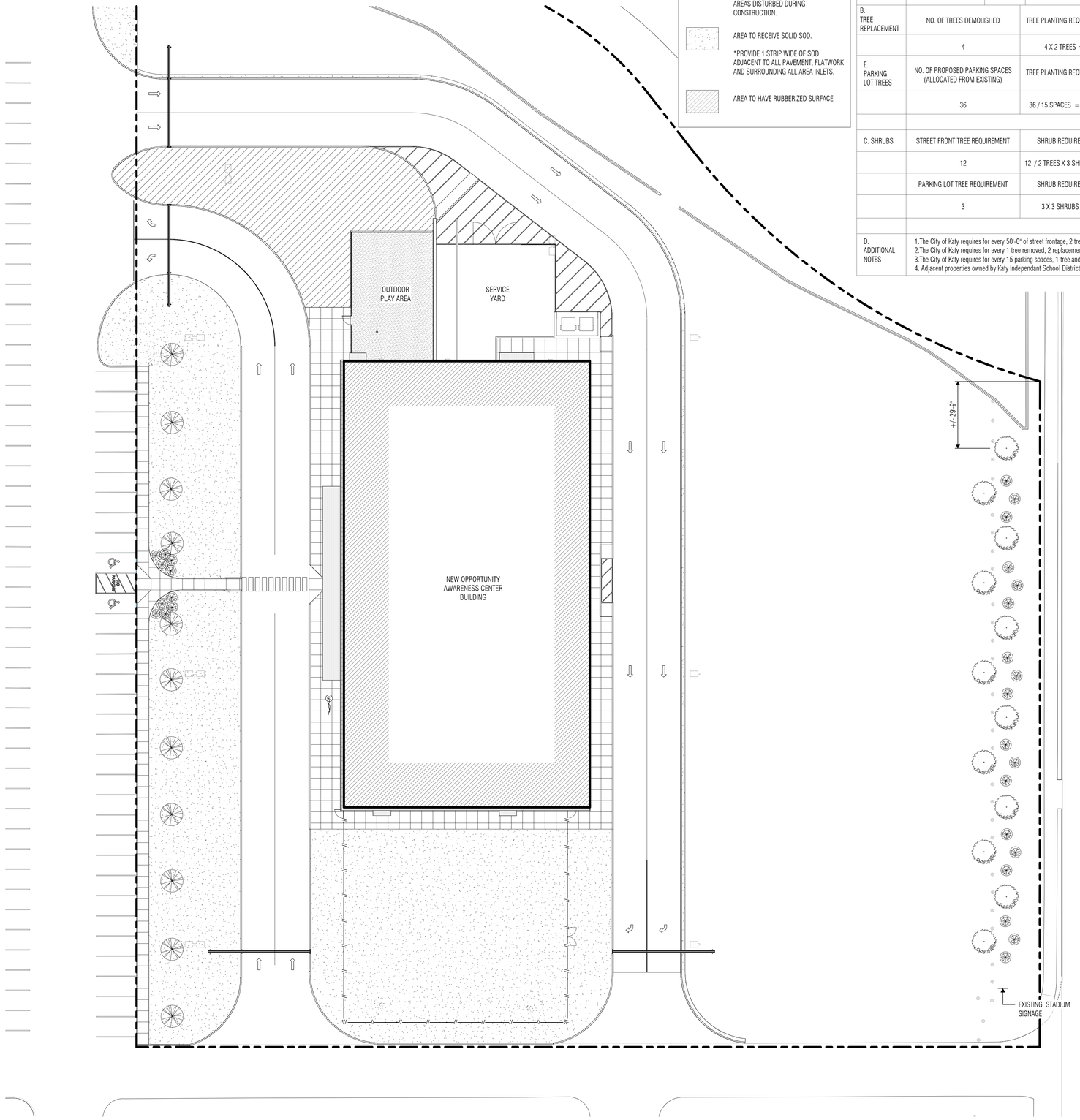
1. ALL PLANTS SHALL BE SET OUT FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
2. FINE GRADING SHALL BE PERFORMED IN ALL AREAS TO BE LANDSCAPED. FINE GRADING SHALL INCLUDE THE REMOVAL OF DEBRIS, ROCKS, ETC. FROM THE SITE AND ENSURE POSITIVE DRAINAGE IN ALL AREAS.
3. THE CONTRACTOR SHALL LOCATE ALL UTILITIES AND EASEMENTS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES DURING THE COURSE OF CONSTRUCTION.
4. IT IS PREFERABLE THAT NO TREE BE STAKED. HOWEVER, CONDITIONS AND PLANT MATERIAL SIZE MAY REQUIRE STAKING. THE OWNER SHALL DETERMINE IF SUPPORT IS NEEDED AND SHALL DIRECT THE CONTRACTOR ACCORDINGLY.
5. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS ASSOCIATED WITH THE LANDSCAPE AND ACCESSORIES.
6. ALL PLANT MATERIALS SHALL MEET ANSI Z60.1 STANDARDS FOR CALIPER, HEIGHT AND ROOT BALLSIZE. ANY MATERIALS THAT DO NOT MEET OR EXCEED SUCH STANDARDS SHALL BE REJECTED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
7. BALLED AND BURLAPPED TREES SHALL HAVE THE TOP HALF OF THE WIRE BASKET REMOVED. THE BURLAP SHALL BE REMOVED TO THE GREATEST EXTENT POSSIBLE, USING A KNIFE TO CUT AND REMOVE THE BOTTOM HALF UNDER THE WIRE BASKET THAT REMAINS.

LANDSCAPE IRRIGATION SYSTEM

1. Contractor to provide an irrigation system within the extents shown on 1/L1.01 LANDSCAPE PLAN.
2. Design and layout of irrigation system to be provided by a Licensed Irrigation Designer in the State of Texas.
3. A point of water meter connection is approximate as shown on 1/L1.01 and C4. Irrigation Contractor is responsible for the location of the irrigation meter and is of the size required to service the system as designed.
4. Provide RainBird ESP-LXME with network communication cartiridge and integral water-conserving technology, in weather-proof enclosure as irrigation controller.
5. Licensed Irrigation Designer is responsible for providing a layout that coordinates and avoids conflicts with site utilities.
6. All work and materials to be in full accordance with latest rules and regulations of safety orders of the Division of Industrial Safety; the Uniform Plumbing Code published by the Western Plumbing Officials' Association; and other applicable laws of regulations, and TCEQ.
7. Contractor to furnish and maintain all warning signs, shoring, barricades, red lanterns, etc., as required by the Safety Orders of the Division of Industrial and local ordinances.
8. Contractor to obtain all permits and pay required fees to any governmental agency having jurisdiction over the work. Arrange inspections required by local agencies and ordinances during the course of construction as required.

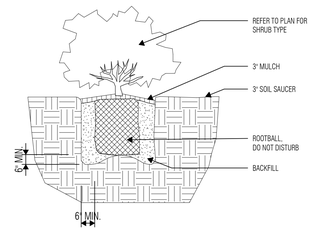
LANDSCAPE PLAN LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	DESCRIPTIONS, SIZE & WORKS SPECIFICATIONS	QUANTITY
	LAGERSTOREMIA FAURIEI	CREPE MYRTILE 'FANTASY'	REPLACEMENT TREES 1 1/2" CAL., 30 GAL. CONTAINER; 10' TO 12' HEIGHT - SINGLE TRUNK	11
	QUERCUS TEXANA	TEXAS RED OAK	STREET FRONT TREES 1 1/2" CAL., 30 GAL. CONTAINER; 10' TO 12' HEIGHT - SINGLE TRUNK	12
	RHAPHIOLEPIS INDICA	INDIAN HAWTHORN 'CALISTO'	SHRUBS 3 GAL. CONTAINER	28

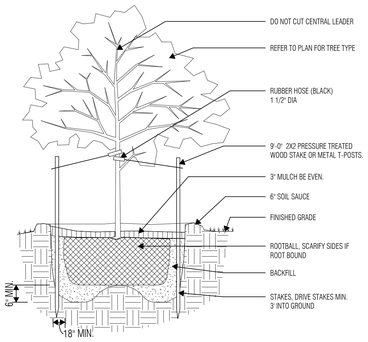


N
TRUE NORTH

1 LANDSCAPE PLAN
SCALE: 1" = 20'-0"



3 SHRUB PLANTING DETAIL
SCALE: 1/8" = 1'-0"



2 TREE PLANTING DETAIL
SCALE: 1/4" = 1'-0"

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Katy ISD
Katy, TX

NEW OPPORTUNITY AWARENESS CENTER

REGISTERED ARCHITECT
CHARLES W. JOHNSON
#23064
STATE OF TEXAS

05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

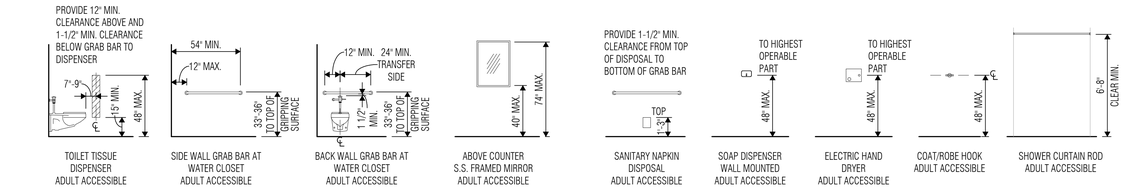
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	AHT/LY

PROJECT NO.
25-0067.00

SHEET TITLE
LANDSCAPE PLAN

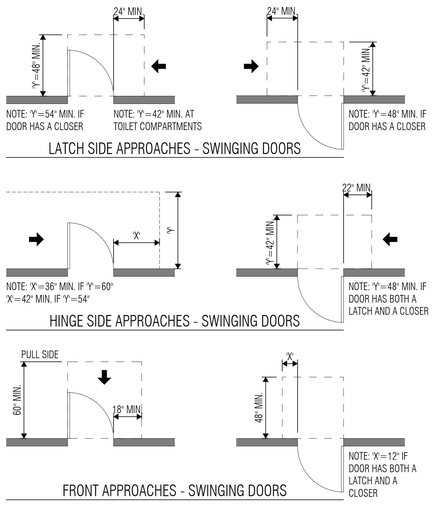
SHEET NO.
L1.01

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1 ACCESSIBLE TOILET ACCESSORY & PLUMBING FIXTURE MOUNTING CRITERIA - ADULT (AGES 13 & ABOVE)

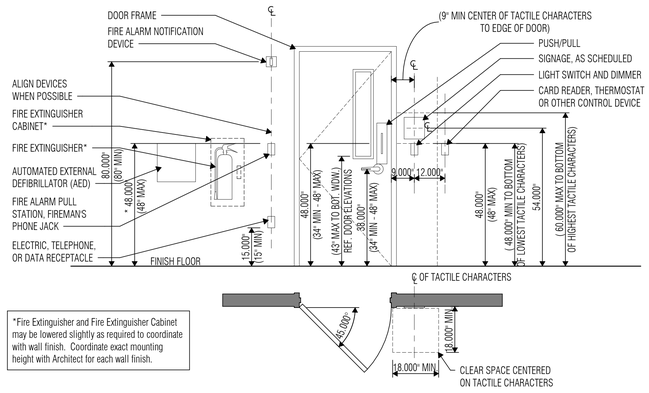
SCALE: 1/4" = 1'-0"



2 MINIMUM MANEUVERING CLEARANCES AT DOORS

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

NOTES:
1. All items of the same type are to be located at the same height throughout the project, U.N.O. Notify Architect of any discrepancies.
2. Dimensions indicate project requirements. Dimensions in ( ) indicate maximum and/or minimum requirements per Authorities Having Jurisdiction.



*Fire Extinguisher and Fire Extinguisher Cabinet may be lowered slightly as required to coordinate with wall finish. Coordinate exact mounting height with Architect for each wall finish.

3 MISC ACCESSIBLE MOUNTING CRITERIA

SCALE: 1/2" = 1'-0"

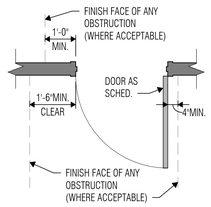
TEXAS ACCESSIBILITY STANDARDS

PROVISIONS FOR ADULTS AND CHILDREN	ADULTS AGES 13 & ABOVE	CHILDREN AGES 12 & UNDER
REACH RANGES		
UNOBSTRUCTED FRONTAL AND SIDE APPROACH	15" MIN. - 48" MAX.	16" MIN. - 44" MAX.
OBSTRUCTED FRONT APPROACH ≤ 20" D. (OPEN UNDER)	48" MAX.	44" MAX.
OBSTRUCTED FRONT APPROACH > 20" D. - 25" D. MAX (OPEN UNDER)	44" MAX.	44" MAX.
OBSTRUCTED SIDE APPROACH ≤ 10" D. - 34" H. MAX	48" MAX.	44" MAX.
OBSTRUCTED SIDE APPROACH > 10" D. - 24" D. MAX & 34" H. MAX	46" MAX.	44" MAX.
RAMPS AND STAIRS		
TOP OF HANDRAIL GRIPPING SURFACE	34" - 38"	34" - 38"
DRINKING FOUNTAINS AND WATER COOLERS		
FRONTAL APPROACH		
SPOUT HEIGHT (TO OUTLET)	36" MAX.	36" MAX.[3]
KNEE CLEARANCE	27" MIN.	27" MIN.[3]
SIDE APPROACH		
SPOUT HEIGHT (TO OUTLET)	USE FRONT APPROACH	USE FRONT APPROACH[3]
KNEE CLEARANCE		
STANDING		
SPOUT HEIGHT (TO OUTLET)	38" MIN. - 43" MAX.	36" MIN. - 43" MAX.[1]
WATER CLOSETS		
CENTERLINE TO WALL OR PARTITION	16" - 18"	12" - 18"
CENTERLINE TO WALL OR PARTITION AT AMBULATORY STALL	17" - 19"	17" - 19"
TOP OF SEAT	17" - 19"	11" - 17"
GRAB BARS (TO TOP OF GRIPPING SURFACE)	33" - 36"	18" - 27"
TOILET TISSUE DISPENSER HEIGHT	15" - 48"	14" - 19"
HAND-OPERATED FLUSH CONTROLS	44" MAX.	36" MAX.
URINALS		
RIM OF BASIN	17" MAX.	17" MAX.[1]
HAND-OPERATED FLUSH CONTROLS	48" MAX.	44" MAX.
LAVATORIES AND SINKS		
RIM OR COUNTER SURFACE	34" MAX.	31" MAX.
KNEE CLEARANCE (LAVATORIES)	27" MIN.	24" MIN.
KNEE CLEARANCE (SINKS)	27" MIN.	24" MIN.
TO FAUCET HANDLES FROM FRONT EDGE	25" MAX.[2]	25" MAX.[1,2]
MIRRORS		
TO TOP OF REFLECTING SURFACE	74" MIN.	74" MIN.
TO BOTTOM OF REFLECTING SURFACE AT LAVS & COUNTERS	40" MAX.	40" MAX.[1]
TO BOTTOM OF REFLECTING SURFACE	35" MAX.	35" MAX.[1]
CONTROLS AND OPERATING MECHANISMS		
HIGHEST OPERABLE PART		
UNOBSTRUCTED FRONTAL AND SIDE APPROACH	48" MAX.	44" MAX.
OBSTRUCTED FRONT APPROACH ≤ 20" D. (OPEN UNDER)	48" MAX.	44" MAX.
OBSTRUCTED FRONT APPROACH > 20" D. - 25" D. MAX. (OPEN UNDER)	44" MAX.	44" MAX.
OBSTRUCTED SIDE APPROACH ≤ 10" D. - 34" D. MAX. & 34" H. MAX.	48" MAX.	44" MAX.
OBSTRUCTED SIDE APPROACH > 10" D. - 24" D. MAX. & 34" H. MAX.	46" MAX.	44" MAX.
FIXED OR BUILT-IN SEATING, TABLES, & WORK STATIONS		
HEIGHT OF TABLES OR COUNTERS	28" - 34"	26" - 30"
KNEE CLEARANCES	27" MIN.	24" MIN.
DRESSING, FITTING & LOCKER ROOMS		
TOP OF BENCH	17" - 19"	17" - 19" [1]
BACK SUPPORT 18" H MIN. OR AFFIX BENCH TO WALL		
FOOD SERVICE LINES		
TOP OF TRAY SLIDE	28" - 34"	28" - 34" [1]

[1] NOTE: Dimension for Children is not specifically addressed in 2012 T.A.S.
[2] NOTE: Faucet handle location cannot be past the back of the allowable toe space, and only 6" deep toe space from the bottom portion of the provided kneespace is allowable for consideration.
[3] NOTE: Where required knee clearance is not provided, spout shall be 30" maximum a.f.f. and no greater than 3 1/2" from front edge/bumper.

TAS NOTES

1. The dimensional ranges included for items on this sheet are the maximum and minimum dimensions allowed by the Texas Accessibility Standards (TAS). There are no tolerances allowed for these dimensions.
2. Mounting criteria for Toilet Accessories on this sheet is the allowable criteria per the TAS. Refer to Sheet A2.38 for project-specific mounting criteria (if different than the TAS requirements), as well as for non-accessible mounting criteria.



NOTES:
1. Confirm compliance of each door clearance prior to the layout or installation of any wall, door, casework or other item which may encroach into the required clearances.
2. Refer to Floor Plans for partition types. This detail applies to all new doors and all existing doors to remain within the areas containing work as defined by the construction documents.

4 TYPICAL DOOR CLEARANCES AT HINGE & STRIKE SIDE

SCALE: 1/2" = 1'-0"

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Houston, Texas 77070
Main Phone: 281.671.2300
www.vlkarchitects.com

Katy ISD
Katy, TX

NEW OPPORTUNITY AWARENESS CENTER

REGISTERED ARCHITECT CHARLES W. JOHNSON 24009 STATE OF TEXAS

05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	MCA / LMR

PROJECT NO.

25-0067.00

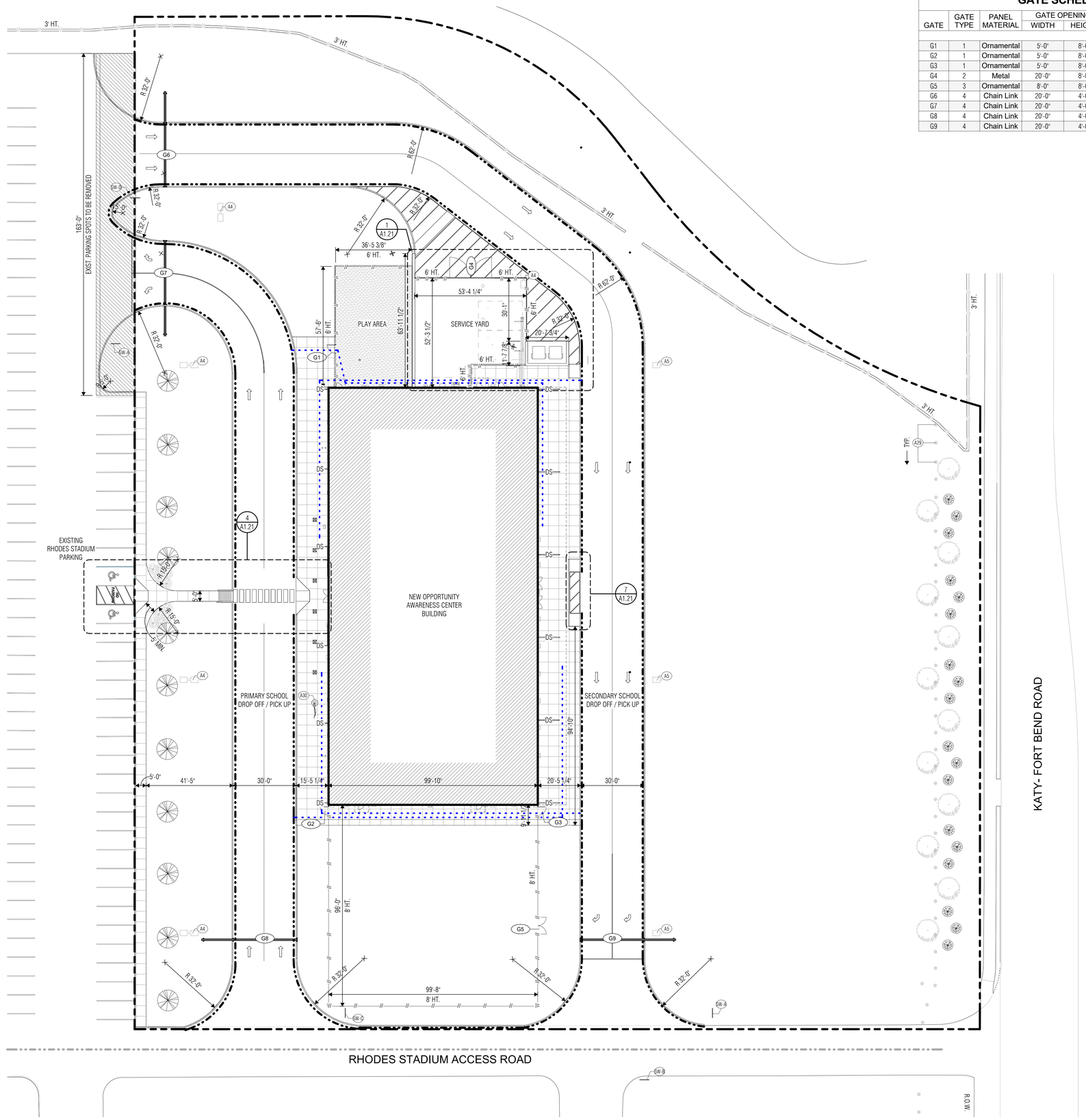
SHEET TITLE

TEXAS ACCESSIBILITY STANDARDS REQUIREMENTS

SHEET NO.

A0.21

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N

TRUE NORTH

1 OVERALL SITE PLAN

SCALE: 1" = 20'-0"

GATE SCHEDULE

GATE	GATE TYPE	PANEL MATERIAL	GATE OPENING WIDTH	GATE OPENING HEIGHT	HARDWARE SET	KEYED NOTES
G1	1	Ornamental	5'-0"	8'-0"	J715	PANIC BAR
G2	1	Ornamental	5'-0"	8'-0"	J715	PANIC BAR
G3	1	Ornamental	5'-0"	8'-0"	J715	PANIC BAR
G4	2	Metal	20'-0"	8'-0"	J-2PL	PAD LOCK
G5	3	Ornamental	8'-0"	8'-0"	J-2PL	PAD LOCK
G6	4	Chain Link	20'-0"	4'-0"	J001SL	PAD LOCK
G7	4	Chain Link	20'-0"	4'-0"	J001SL	PAD LOCK
G8	4	Chain Link	20'-0"	4'-0"	J001SL	PAD LOCK
G9	4	Chain Link	20'-0"	4'-0"	J001SL	PAD LOCK

SITE PLAN NOTES

1. Verify and document existing dimensions and conditions at the site before beginning construction. Notify the Architect of conflicts or variations prior to commencement of construction.
2. To prevent damage to existing trees and shrubs in proximity to the Work, provide and maintain protective barriers around those items in accordance with the specified procedures, or in the absence of those procedures, with recognized landscaping and horticultural practices.

SITE PLAN LEGEND

- PROPERTY LINE
- FIRE LANE (PER CITY STANDARDS)
- ORNAMENTAL FENCE, See Plan for Heights
- EXISTING ORNAMENTAL FENCE, See Plan for Heights
- 200 LINEAR FEET (LF) HOSE LAY

KEYED NOTES SCHEDULE

KEY	NOTE
A4	DOUBLE HEAD LIGHTING POLE, REF. ELECTRICAL
A5	SINGLE HEAD LIGHTING POLE, REF. ELECTRICAL
A29	EXIST. 6" BOLLARD, TO REMAIN
A30	FLAGPOLE, U.S. & TEXAS FLAGS
SW-A	SIGNAGE - EXIT ONLY
SW-B	SIGNAGE - ONE WAY
SW-C	SIGNAGE - ELEMENTARY STUDENT DROP-OFF / PICK-UP - ENTRY ONLY
SW-D	SIGNAGE - SECONDARY STUDENT DROP-OFF / PICK-UP - BUS-LOOP - ENTRY ONLY

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NEW OPPORTUNITY AWARENESS CENTER

REGISTERED ARCHITECT
CHARLES W. JOHNSON
27644
STATE OF TEXAS

05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	AHT/JGH

PROJECT NO.

25-0067.00

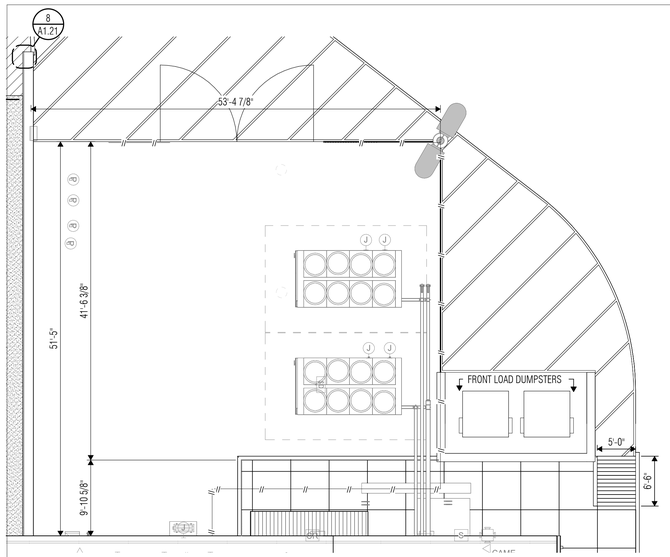
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OVERALL SITE PLAN

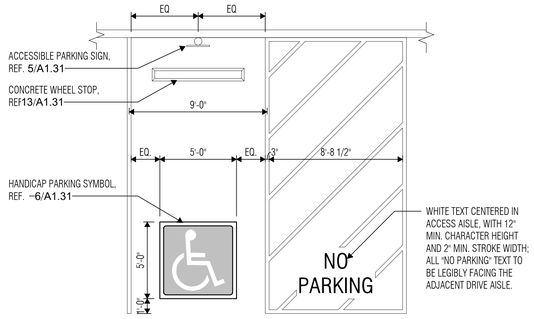
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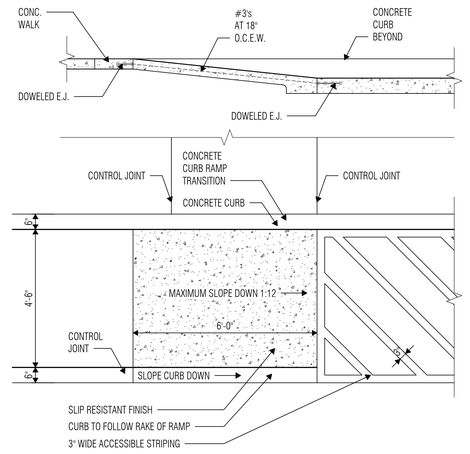
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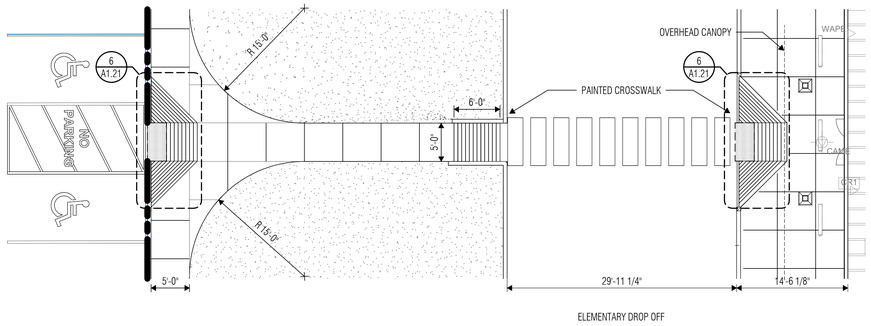
1 ENLARGED SERVICE YARD PLAN
SCALE: 1/8" = 1'-0"



2 TYP. ACCESSIBLE PARKING STRIPING DETAIL
SCALE: 1/4" = 1'-0"



3 CURB RAMP PLAN - DETAIL
SCALE: 1/2" = 1'-0"

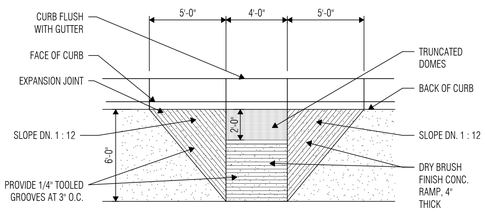


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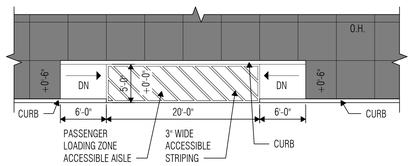
4 ENLARGED ACCESIBLE ROUTE AT PARKING
SCALE: 1/8" = 1'-0"



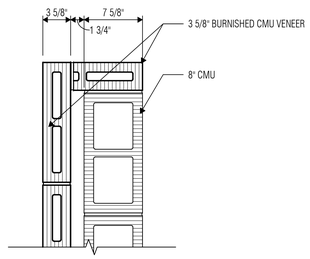
5 FIRE LANE STRIPING DETAIL
SCALE: 1/4" = 1'-0"



6 CURB RAMP PLAN - TRUNCATED DOMES
SCALE: 1/4" = 1'-0"



7 PASSENGER LOADING ZONE
SCALE: 1/8" = 1'-0"



8 ENLARGED SITE PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

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REGISTERED ARCHITECT CHARLES W. JOHNSON 20094 STATE OF TEXAS
05/26/2026

ISSUED: May 26, 2026

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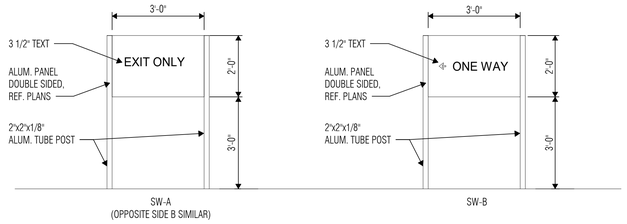
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	AHT/JGH

PROJECT NO.
25-0067.00

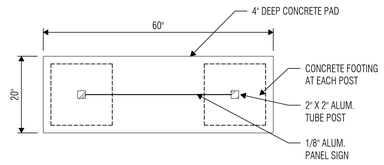
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ENLARGED ARCHITECTURAL SITE PLANS & DETAILS

SHEET NO.
A1.21

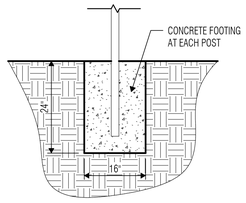
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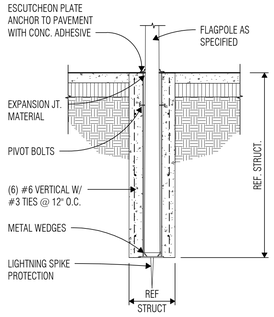
1 SITE WAYFINDING - SIGNAGE TYPES
SCALE: 1/2" = 1'-0"



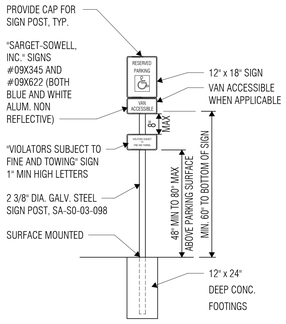
2 SITE WAYFINDING - TYP. PLAN
SCALE: 3/4" = 1'-0"



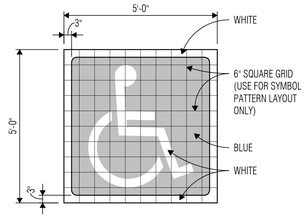
3 SITE WAYFINDING - TYP. FOOTING
SCALE: 3/4" = 1'-0"



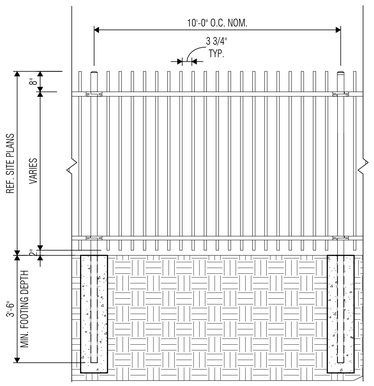
4 FLAGPOLE FOUNDATION DETAIL
SCALE: 1/2" = 1'-0"



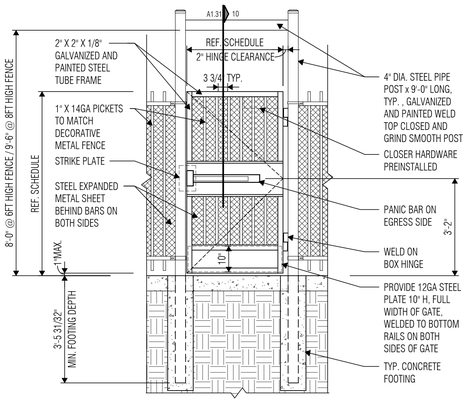
5 ACCESSIBLE PARKING SIGN
SCALE: 1/2" = 1'-0"



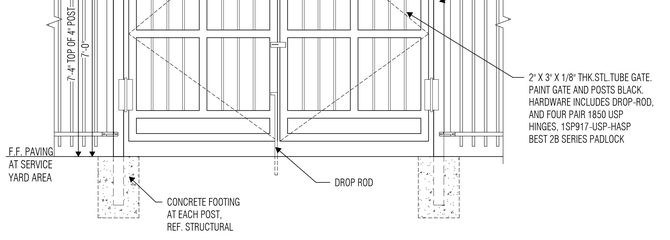
6 PLAN/DETAIL AT H.C. SYMBOL
SCALE: 1/2" = 1'-0"



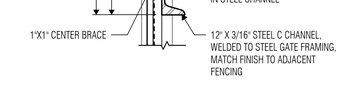
7 ORNAMENTAL METAL FENCE
SCALE: 1/2" = 1'-0"



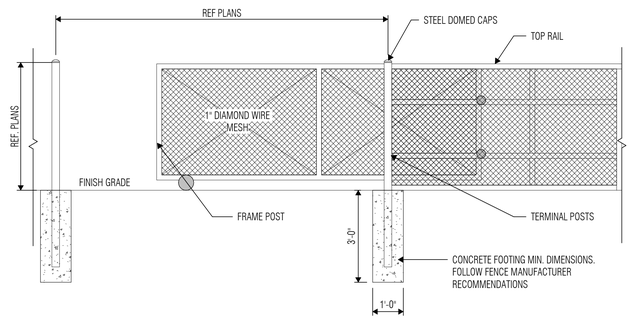
8 PEDESTRIAN SINGLE - ORNAMENTAL - GATE TYPE 1
SCALE: 1/2" = 1'-0"



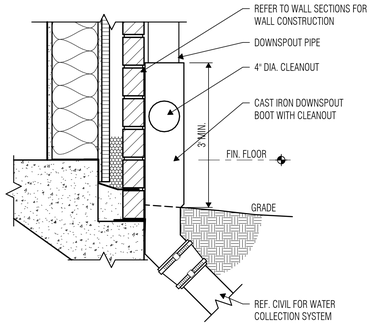
9 180 DEGREE SWINGING GATE - GATE TYPE 2
SCALE: 1/2" = 1'-0"



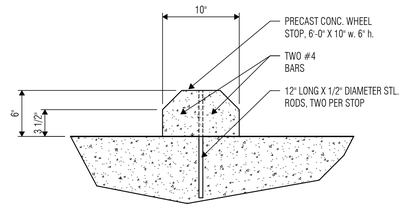
10 GATE HARDWARE DETAIL
SCALE: 1 1/2" = 1'-0"



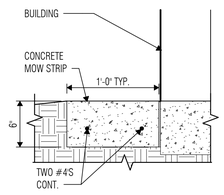
11 ROLLING GATE - GATE TYPE 4
SCALE: 1/2" = 1'-0"



12 TYP. DOWNSPOUT BOOT
SCALE: 1 1/2" = 1'-0"



13 WHEEL STOP DETAIL
SCALE: 1 1/2" = 1'-0"



14 CONCRETE MOW STRIP
SCALE: 1 1/2" = 1'-0"

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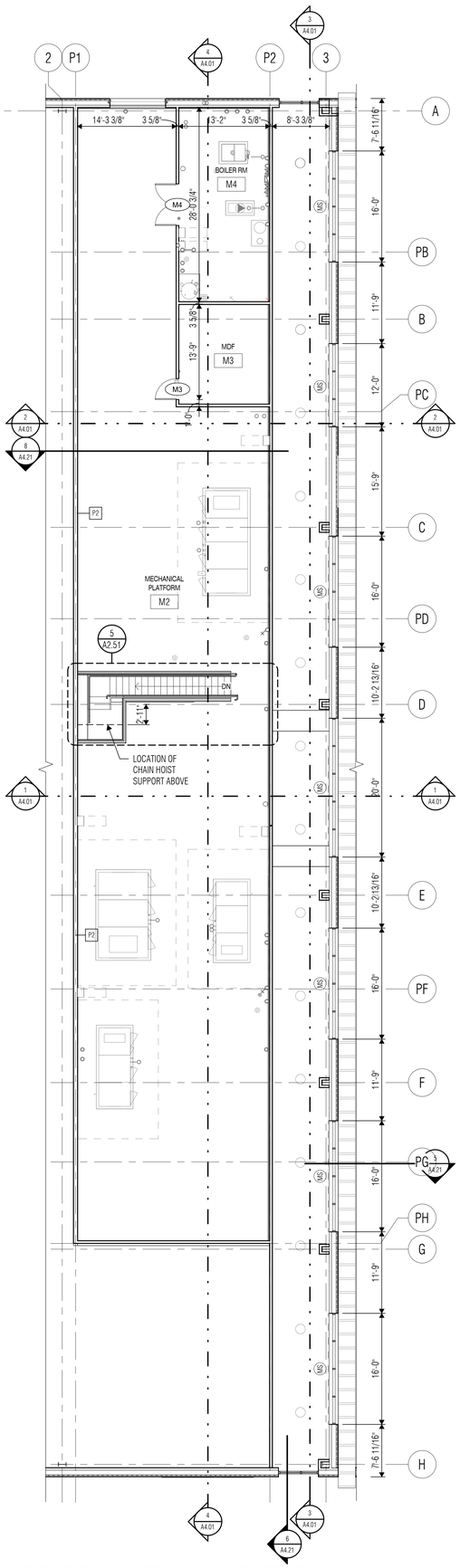
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
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Drawn By	AHT/JGH

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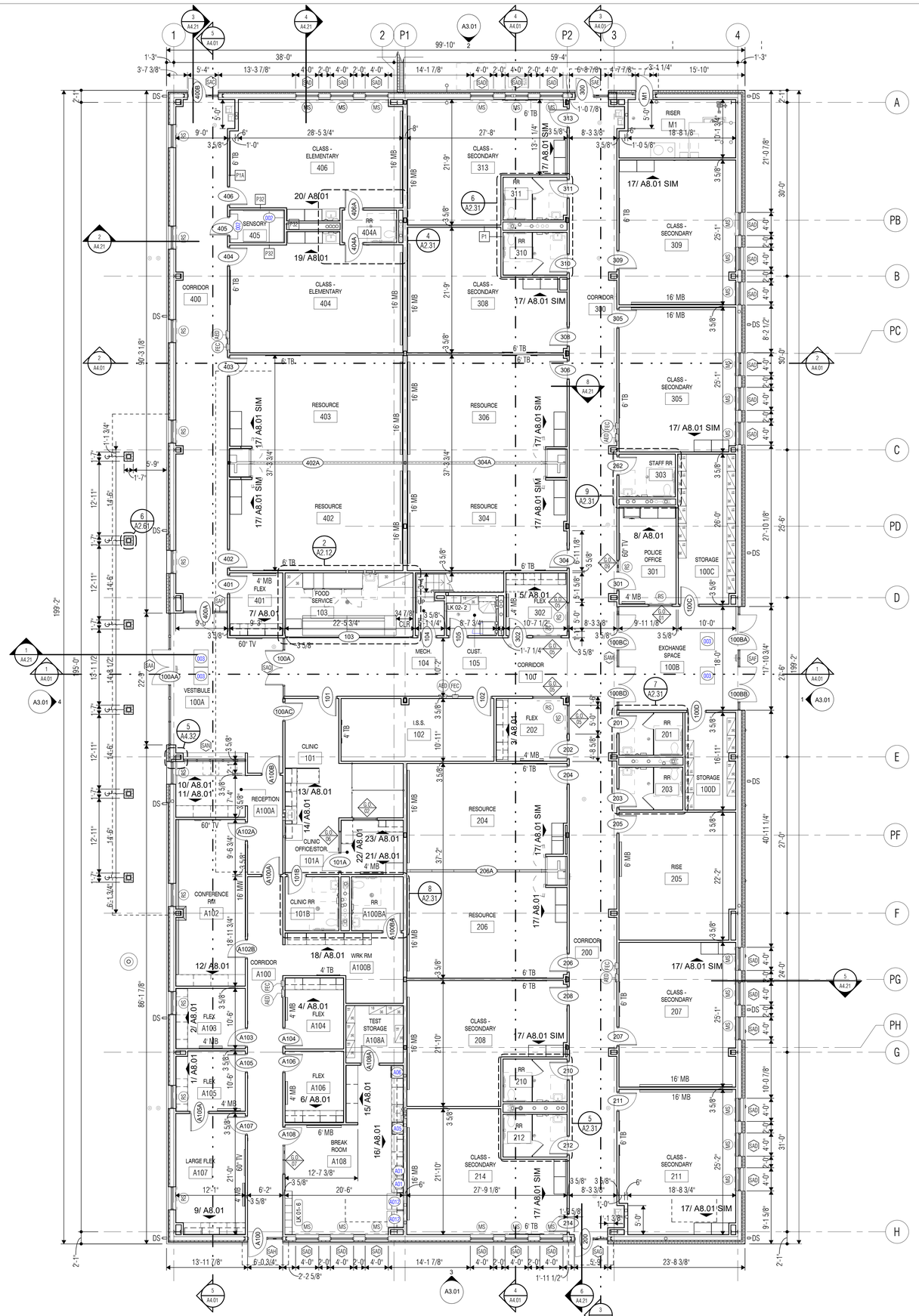
SHEET TITLE
ARCHITECTURAL SITE PLAN DETAILS

SHEET NO.
A1.31

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2 FLOOR PLAN - MECHANICAL PLATFORM
SCALE: 1/8" = 1'-0"



1 ORIENTATION FLOOR PLAN - LEVEL ONE
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1. Primary Ground Level floor elevation is 140.30' (Mean Sea Level), which equals to 100'-0" datum.
2. Dimensions on Floor Plans are to face of stud unless noted otherwise.
3. Coordinate the location of electrical devices with casework, millwork, lockers, etc. Any electrical device that is not properly coordinated shall be relocated at no additional cost.
4. Exterior wall construction is identified on the Wall Sections. Refer to the A4 series sheets for Wall Sections, and to Sheet A4.11 for Exterior Wall Assemblies.
5. Refer to Exterior Elevation Notes for control joint requirements at all inside corners of masonry veneer.
6. Refer to Sheet A2.21 for Partition Types.
7. Interior partitions are Type "P1" unless noted otherwise.
8. Refer to Detail 3/A0.21 for Typical Door Maneuvering Clearances. All new doors shall meet the requirements of that detail. If any door is found that does not comply with these requirements, request clarification from the Architect prior to construction.
9. Refer to Sheet3/A2.21 for Typical Gypsum Board Control Joint Details at all CFS and light-gage steel stud partition openings.
10. Refer to Sheet A2.21 for Typical Partition Penetration Details, including pipe, conduit and ductwork penetrations.
11. Refer to Exterior Elevations for exact locations of downspouts.
12. Provide factory bullnose units at all interior exposed vertical edges of CMU, except at starter course with applied base material where square-edge units shall be provided in lieu of bullnose units.
13. Provide minimum 20 gage (33 mils) light-gage steel studs at all interior partitions scheduled to receive ceramic tile, plaster, abuse-resistant gyp board or impact-resistant gyp board.
14. Provide minimum 18 (43 mils) gage cold-formed steel studs at all interior partitions scheduled to receive anchored masonry or stone veneer as well as interior partitions with steel plate or steel sheet X-bracing.
15. Provide minimum 18 gage (43 mils) cold-formed steel studs as designed by stud engineer for all interior partiti1ons scheduled to receive adhered masonry or stone veneer.
16. At light-gage steel stud partitions that extend above the ceiling, provide diagonal 20 (30 mils) gage stud braces at 4'-0" o.c. to structure above (not to steel deck) as required to provide rigid anchorage and support of partitions.
17. Provide minimum 2 X 6 fire-retardant treated wood blocking in both new and existing stud walls and partitions, at mounting locations for wall-mounted accessories, handrails, casework, markerboards, tackboards, folding partitions, toilet partitions, and all other wall-mounted items. Refer to Sheet 2/A8.21for typical blocking requirements at various conditions.
18. At Mechanical, Electrical and Boiler Room partitions, seal tightly around all penetrations. Utilize fire safing material at rated partitions.
19. Provide sealant and/or fire safing at all floor penetrations, as applicable.
20. Refer to Reflected Ceiling Plan for clerestory and transom windows.

FLOOR PLAN LEGEND

METAL STUD PARTITION. Extend 4" above highest ceiling plane and brace to structure above as noted in Floor Plan Notes. Refer to Life Safety and Floor Plan sheets for fire, smoke and sound-conditioned partitions that extend to deck above.

LOCKER TYPE (LKA-4) — For locker types, ref.5/A2.21
LOCKER QUANTITY

FURNITURE, FIXTURE OR EQUIPMENT BY OWNER. Coordinate with adjacent electrical devices, casework, etc.

MB	MARKERBOARD, Preceding number is length, in feet.
TB	TACKBOARD, Preceding number is length, in feet.
FE	FIRE EXTINGUISHER, with bracket.
FEC	FIRE EXTINGUISHER, with cabinet and bracket.
RS	ROLLING WINDOW SHADES
MS	MOTORIZED ROLLING SHADES
DS	DOWNSPOUT
AED	AED, with cabinet and bleed kit.

KEY NOTE LEGEND	
Key Value	Key Note Text

002	Wall Pads, 7'-0" Tall
003	Screening Device, OFOI
A01	Microwave, CFCI
A05	Dishwasher, CFCI
A06	Ice Machine, CFCI
A012	Refrigerator w/ Ice Maker + Lock, CFCI

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05/26/2026

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Designer	Brad Ewing
Drawn By	MCA

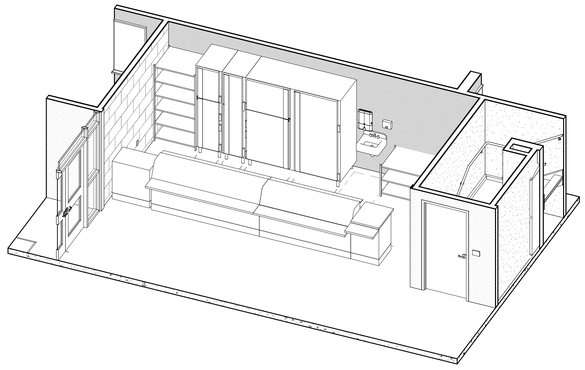
PROJECT NO.
25-0067.00

SHEET TITLE
FLOOR PLAN

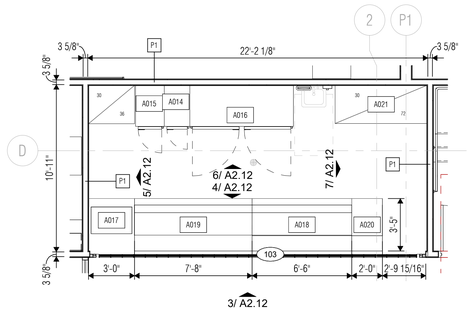
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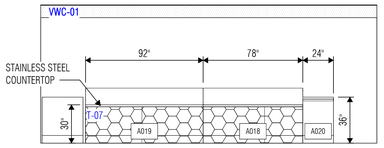
FOOD SERVICE EQUIP SCHEDULE						
Mark	Type	Manufacturer	Model Number	Depth	Width	Height
A014	FS_Reach-in-Warmer_1-Door	Continental Refrigerator	DL1W	2'-11 3/8"	2'-2"	6'-11 1/4"
A015	FS_Reach-in-Cooler_1-Door	Continental Refrigerator	D1REN	2'-11 3/8"	2'-4 1/2"	6'-11 1/4"
A016	FS_Reach-in-Cooler_2-Door	Continental Refrigerator	D2REN	2'-11 3/8"	4'-9"	6'-11 1/4"
A017	FS_Milk Cooler	Continental Refrigerator	MC3NSSDCW	2'-9"	2'-10"	3'-5 1/2"
A018	FS_Serving Line_78	Mod-U-Serv		3'-0"	3'-0"	2'-6"
A019	FS_Serving Line_92	Mod-U-Serv		3'-0"	3'-0"	2'-6"
A020	FS_Cashier			3'-0"	3'-0"	3'-0"
A021	FS_Work Table					



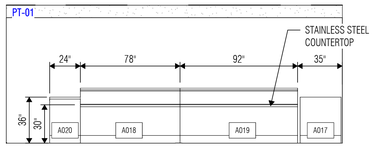
1 FOOD SERVICE MODEL
SCALE:



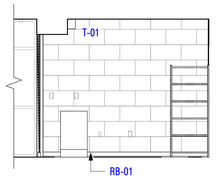
2 FOOD SERVICE - ENLARGED PLAN
SCALE: 1/4" = 1'-0"



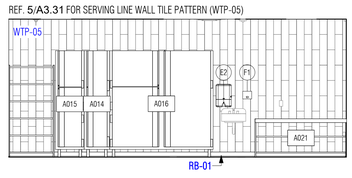
3 FRONT OF SERVING LINE
SCALE: 1/4" = 1'-0"



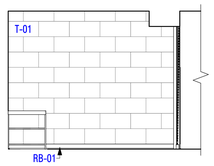
4 BACK OF SERVING LINE
SCALE: 1/4" = 1'-0"



5 FOOD SERVICE - WEST
SCALE: 1/4" = 1'-0"



6 FOOD SERVICE - NORTH
SCALE: 1/4" = 1'-0"



7 FOOD SERVICE - EAST
SCALE: 1/4" = 1'-0"

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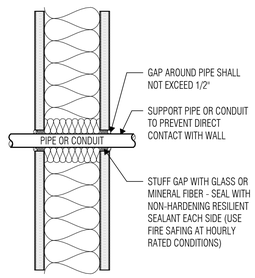
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Designer
Drawn By	Author

PROJECT NO.
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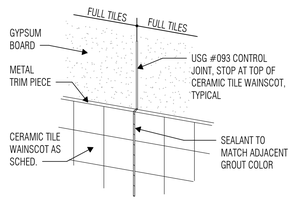
SHEET TITLE
FOOD SERVICE ENLARGED PLANS AND DETAILS

SHEET NO.
A2.12

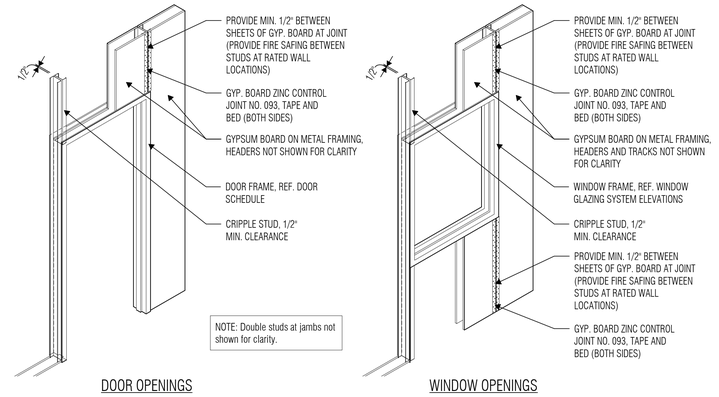
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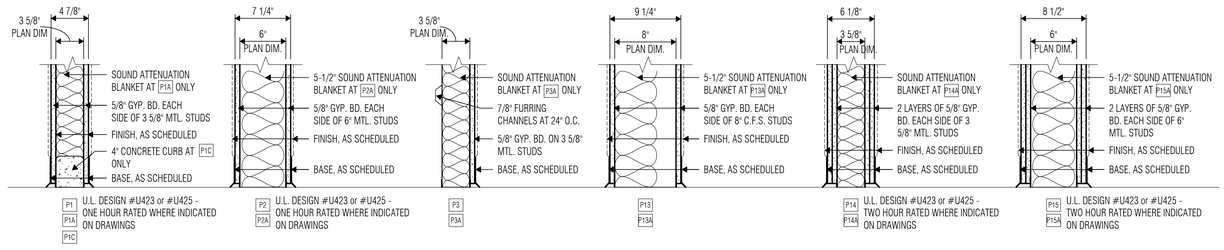
1 PARTITION DETAIL
SCALE: 3" = 1'-0"



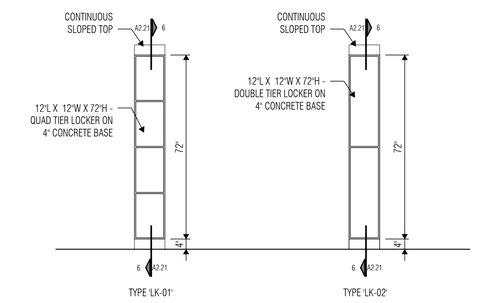
2 DETAIL OF GYP CONTROL JOINT
SCALE: 1 1/2" = 1'-0"



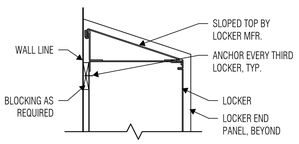
3 TYPICAL CONTROL JOINT DETAIL AT OPENINGS
SCALE: 1/2" = 1'-0"



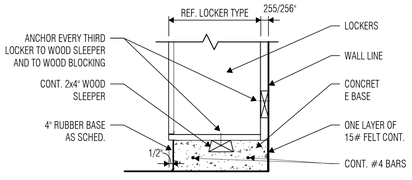
4 PARTITION TYPES
SCALE: 1 1/2" = 1'-0"



5 LOCKER TYPE ELEVATIONS
SCALE: 1/2" = 1'-0"



6 LOCKER CAP DETAIL
SCALE: 1 1/2" = 1'-0"



7 LOCKER BASE DETAIL
SCALE: 1 1/2" = 1'-0"

PARTITION NOTES

1. Refer to Floor Plan Notes for additional metal stud requirements at Ceramic Tile, Plaster, Anchored Masonry or Stone Veneer, and Adhered Masonry or Stone Veneer.
2. Refer to Sheet A2.22 for typical partition details.
3. Refer to Life Safety sheets for location of fire rated partitions.
4. Refer to Reflected Ceiling Plan Sheets for location of non-rated partitions that extend to the structural deck above.
5. Provide firestopping as required to achieve the fire-resistive rating at all penetrations, gaps and other openings through or around rated floors, roofs, walls and partitions.
6. At all rated and acoustical partitions that extend to structural deck above, seal to the floor below and to the structure above. Provide firestopping at rated partitions, and acoustical sealant at acoustical and sound conditioned other partitions.
7. At all partitions that extend to structural deck above, provide gypsum board enclosure around beams, joists, ducts, etc. as required to maintain fire-resistive ratings and acoustical requirements.
8. All non-rated partitions shall extend to 4" above ceiling, unless noted otherwise, refer to RCP Sheets. Brace partitions per Floor Plan Notes.

STUD PARTITION SIZING SCHEDULE

STUD DEPTH	STUD SPACING	STUD GAGE	EQ STUD	MAX LENGTH	MAX LENGTH (at Tile/Plaster)
2-1/2"	16" O.C	25 (18 mils)	25EQ	12'-0"	N/A
2-1/2"	16" O.C	20 (30 mils)	20EQ	12'-6"	N/A
2-1/2"	16" O.C	20 (33 mils)	N/A	13'-6"	N/A
3-5/8"	16" O.C	25 (18 mils)	25EQ	15'-6"	N/A
3-5/8"	16" O.C	20 (30 mils)	20EQ	16'-0"	N/A
3-5/8"	16" O.C	20 (33 mils)	N/A	17'-0"	14'-6" (2)
6"	16" O.C	25 (18 mils)	25EQ	21'-6"	N/A
6"	16" O.C	20 (30 mils)	20EQ	22'-6"	N/A
6"	16" O.C	20 (33 mils)	N/A	25'-0"	21'-6" (2)

NOTES:
1. All doors shall have a minimum of 20 gage (30 mils) framing where required by specifications.
2. See Floor Plan Notes and Partition Notes for additional metal stud requirements at ceramic tile, plaster, anchored masonry/stone veneer, or adhered masonry/stone veneer.
3. Max. Lengths assume both sides of studs braced full-height of partition.
4. Max. Lengths are unbraces lengths based on 5 psf lateral loading and L/240 deflection (L/360 at tile/plaster).
5. Equivalent (EQ) studs are not allowable at abuse-resistant or impact-resistant gyp board. Provide 20 gage (33 mils) studs at these locations.

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REGISTERED ARCHITECT
CHARLES W. JOHNSON
22644
STATE OF TEXAS
05/26/2026

ISSUED: May 26, 2026

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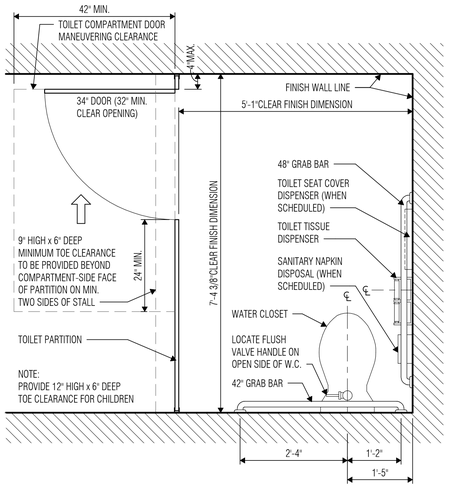
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	JGH

PROJECT NO.
25-0067.00

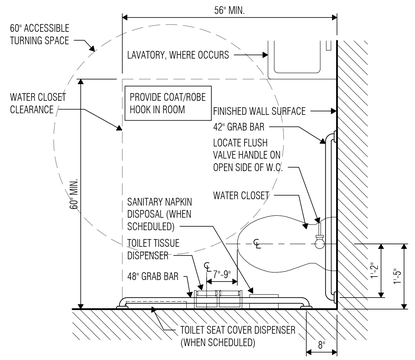
SHEET TITLE
PARTITION TYPES AND DETAILS

SHEET NO.
A2.21

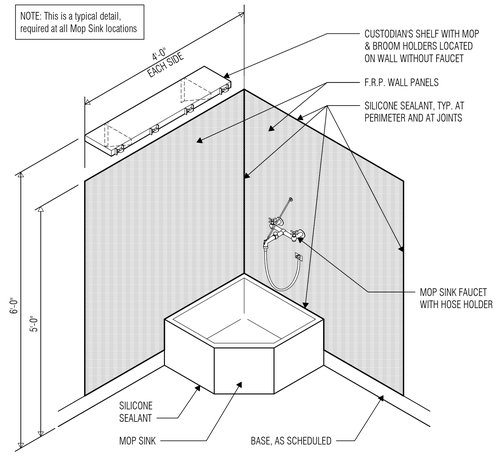
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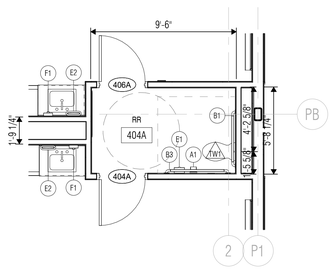
1 ACCESSIBLE TOILET COMPARTMENT
SCALE: 3/4" = 1'-0"



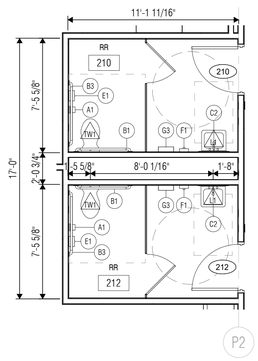
2 ACCESSIBLE TOILET ROOM
SCALE: 3/4" = 1'-0"



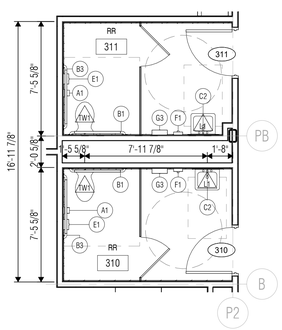
3 CUSTODIAL ROOM WAINSCOT & ACCESSORIES
SCALE: 3/4" = 1'-0"



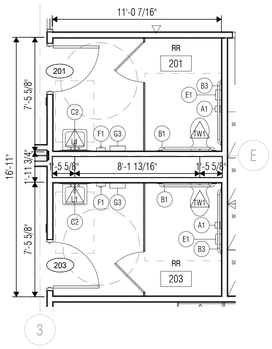
4 ENLARGED TOILET PLAN
SCALE: 1/4" = 1'-0"



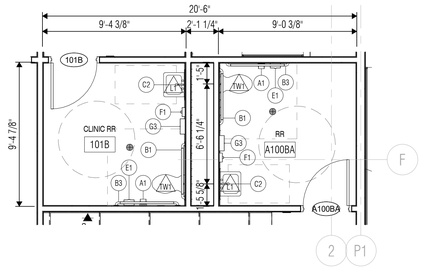
5 ENLARGED TOILET PLAN
SCALE: 1/4" = 1'-0"



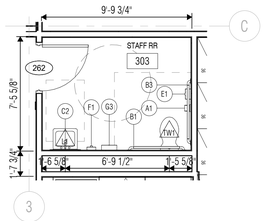
6 ENLARGED TOILET PLAN
SCALE: 1/4" = 1'-0"



7 ENLARGED TOILET PLAN
SCALE: 1/4" = 1'-0"



8 ENLARGED TOILET PLAN
SCALE: 1/4" = 1'-0"



9 ENLARGED TOILET PLAN
SCALE: 1/4" = 1'-0"

TOILET ACCESSORY LEGEND

TYPE MARK	FAMILY AND TYPE	MOUNTING HEIGHT	OFCI
A1	Toilet Paper Dispenser: Single	20" to Center	Yes
B1	Grab Bar: Water Closet, Back Wall (Adult)	Refer to A0.31	No
B3	Grab Bar: Water Closet, Side Wall (Adult)	Refer to A0.31	No
C2	Mirror - Framed: Above Counters (Adult) - 24"x36"	39" to Bottom of Reflective Surface	No
E1	Sanitary Napkin Disposal: Sanitary Napkin Disposal	25" to Top	Yes
E2	Paper Towel Dispenser, Surface Mounted (E2): Model B-2620 (Muti-Fold)		
F1	Soap Dispenser, Wall Mounted: Standard (Adult Accessible)	47" to Control	Yes
G3	Hand Dryer, Surface Mounted: Standard (Adult Accessible)	47" to Control	No
H1	Mop and Broom Holder: With Utility Shelf	72" to Top of Shelf	No

PLUMBING FIXTURE LEGEND

TYPE MARK	FAMILY AND TYPE	MOUNTING HEIGHT
	Floor Drain_Round: 5" Strainer - 4" Drain	
L1	Lavatory: Standard (Adult Accessible)	34" to Rim
TW1	Water Closet: Wall Mounted	16" Top of Seat

ENLARGED FLOOR PLAN NOTES

1. Dimensions on Enlarged Floor Plans are to face of wall finish material unless noted otherwise.
2. Dashed lines shown on Enlarged Floor Plans indicate accessibility requirements and are indicated for information only.
3. Install all accessible plumbing fixtures and toilet accessories in accordance with the Texas Accessibility Standards and as indicated on Sheets A0.31, Sheet A2.38, and Sheet A2.39.
4. Install all non-accessible plumbing fixtures and toilet accessories at manufacturers' recommended mounting heights, unless noted otherwise.
5. Refer to Toilet Accessory Legend on Sheet A2.38 for Toilet Accessory information and mounting heights.
6. At accessible toilet compartments, install water closets with the centerline of fixture at 1'-5" off the side wall finish material. At both ambulatory-accessible and non-accessible toilet compartments, install water closets at the centerline of the compartment.
7. Install hand-operated flush controls for wheelchair accessible water closets on the open side of the water closet. Flush control assembly shall not extend above grab bar, and top of flush control assembly shall be held a minimum of 1-1/2" below the grab bar.
8. Provide pipe protection for all exposed piping at both accessible and non-accessible lavatories.
9. Floor drains are indicated for location purposes only. Refer to Plumbing Drawings for floor drain sizes and plumbing information.

FLOOR PLAN LEGEND

METAL STUD PARTITION. Extend 4" above highest ceiling plane and brace to structure above as noted in Floor Plan Notes. Refer to Life Safety and Floor Plan sheets for fire, smoke and sound-conditioned partitions that extend to deck above.

LKA-4 — LOCKER TYPE
For locker types, ref.5/A2.21
LOCKER QUANTITY

FURNITURE, FIXTURE OR EQUIPMENT BY OWNER. Coordinate with adjacent electrical devices, casework, etc.

MB	MARKERBOARD, Preceding number is length, in feet.
TB	TACKBOARD, Preceding number is length, in feet.
FE	FIRE EXTINGUISHER, with bracket.
FEC	FIRE EXTINGUISHER, with cabinet and bracket.
RS	ROLLING WINDOW SHADES
MS	MOTORIZED ROLLING SHADES
DS	DOWNSPOUT
AED	AED, with cabinet and bleed kit.

TOILET ACCESSORY NOTES

1. All items are contractor-furnished and installed unless noted otherwise.
2. Provide blocking in walls for all wall-mounted items, including O.F.C.I. and O.F.O.I. items. Refer to Sheet A2.21
3. All mounting heights are from finished flooring material at centerline of accessory unless noted otherwise.
4. Roll-in Type Showers larger than 30"x60" will require different toilet accessories.
5. Set height of curtain rod so curtain is 1" above threshold.
6. Mounting height of mirrors at Standard Height Lavatories should be installed such that the bottom of mirror aligns with bottom of accessible mirror when possible.
7. Child Accessible Mounting Height shall be 40" when primary users are ages 6 through 8, and 36" when primary users are ages 3 through 4.

PLUMBING FIXTURE NOTES

NOTES:

1. Note that the architectural marks in this legend may differ from the designations in the MEP Plumbing Legend.
2. Reference MEP Plumbing drawings and legends for additional fixtures.
3. Mounting height at floor-mounted fixture might vary slightly based on actual product selected.
4. Mounting height is based on maximum allowable and cannot be exceeded.
5. The TAS required kneespace of 27" is not provided using this mounting height; ensure spout is located 3-1/2" max. from front edge/bumper as required for parallel approach per the TAS.
6. For standard urinals at child-only facilities, provide 20" to rim.
7. Install all accessible plumbing fixtures and toilet accessories in accordance with the Texas Accessibility Standards, and as indicated on this sheet. Install all non-accessible plumbing fixtures and toilet accessories at manufacturers' recommended mounting heights, unless noted otherwise.
8. At accessible toilet rooms and compartments, install water closets with the centerline of fixture at 1'-5" off the side wall finish material. At both ambulatory-accessible and non-accessible toilet compartments, install water closets at the center of the compartment.
9. Install hand-operated flush controls for wheelchair accessible water closets on the open side of the water closet. Flush control assembly shall not extend above grab bar, and top of flush control assembly shall be held a minimum of 1-1/2" below the grab bar.

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CHARLES W. JOHNSON 27044 REGISTERED ARCHITECT STATE OF TEXAS
05/26/2026

ISSUED: May 26, 2026

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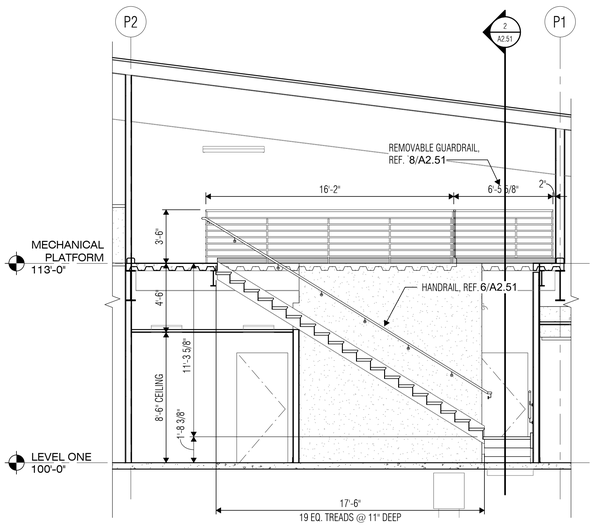
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	MCA

PROJECT NO.
25-0067.00

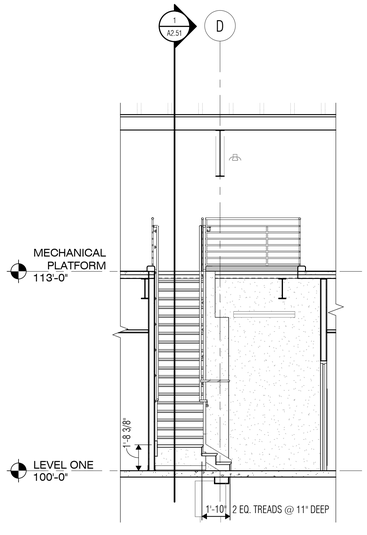
SHEET TITLE
ENLARGED TOILET PLANS AND ELEVATIONS

SHEET NO.
A2.31

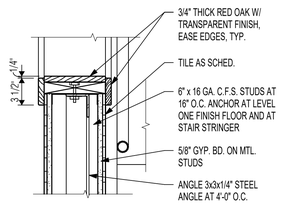
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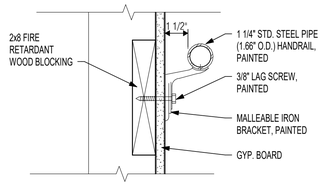
1 PLATFORM STAIR SECTION
SCALE: 1/4" = 1'-0"



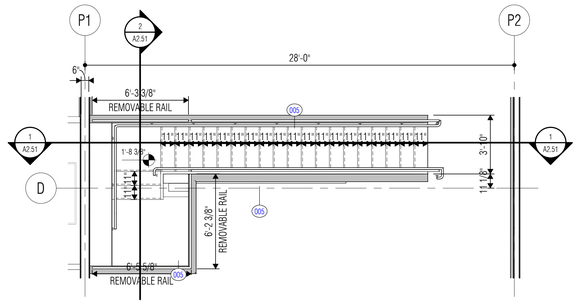
2 PLATFORM STAIR SECTION
SCALE: 1/4" = 1'-0"



3 MC139 - DETAIL at STAIR
SCALE: 1 1/2" = 1'-0"



4 MC122 - HANDRAIL DETAIL
SCALE: 3" = 1'-0"



5 PLATFORM STAIR PLAN
SCALE: 1/4" = 1'-0"

NOTES:
1. Handrails shall be continuous along both sides of stairs. The inside handrail of switchback or dogleg stairs shall always be continuous.
2. If handrails are not continuous, they shall extend at least 12" beyond the top riser and one tread depth beyond the bottom riser. At the top, extension shall be parallel with the floor or ground surface. At the bottom, the handrail shall continue to slope.
3. The clear space between the handrail and the wall shall be 1 1/2".
4. Gripping surfaces shall be continuous.
5. Ends of handrails shall be returned smoothly to floor, wall or post.
6. Handrails shall not rotate in their fittings.

6 TYPICAL STAIR HANDRAIL ELEVATION
SCALE: 1/4" = 1'-0"

7 MC111 - STAIR DETAIL- FLOOR SLAB
SCALE: 1 1/2" = 1'-0"

8 TYPICAL GUARDRAIL ELEVATION
SCALE: 3/4" = 1'-0"

9 MC115 - STAIR DETAIL_BOTTOM
SCALE: 1 1/2" = 1'-0"

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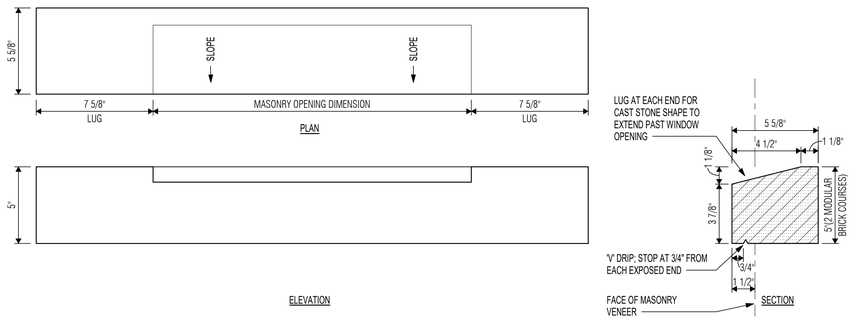
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	MCA

PROJECT NO.
25-0067.00

SHEET TITLE
STAIR PLANS AND DETAILS

SHEET NO.
A2.51

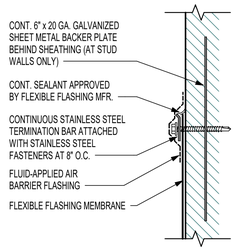
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1 CAST STONE SHAPE - CS-1

SCALE: 3" = 1'-0"

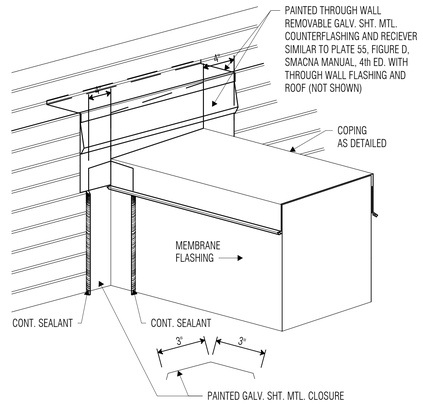
*CS-1 BM.L.30
AT 3" WINDOW SETBACK IN MASONRY VENEER w/ LUGS



2 TERMINATION BAR DETAIL

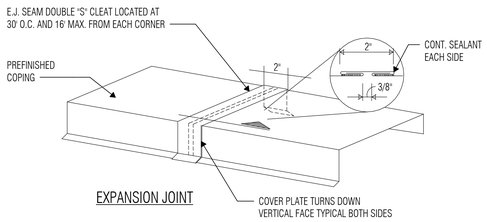
SCALE: 6" = 1'-0"

GD010



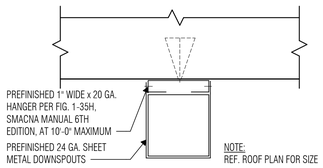
3 TYP. COPING WALL ABUTMENT DETAIL

SCALE: 1 1/2" = 1'-0"



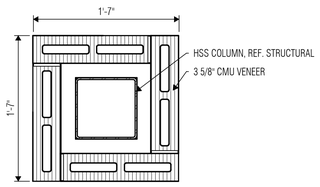
4 TYP. PREFINISHED METAL COPING JOINT DETAIL

SCALE: 1 1/2" = 1'-0"



5 PLAN DETAIL @ DOWNSPOUT

SCALE: 3" = 1'-0"



6 PLAN DETAIL - TYP. EXT. CANOPY COLUMN

SCALE: 1 1/2" = 1'-0"

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Designer	Brad Ewing
Drawn By	JGH / CLP

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SHEET TITLE

MISCELLANEOUS DETAILS

SHEET NO.

A2.61

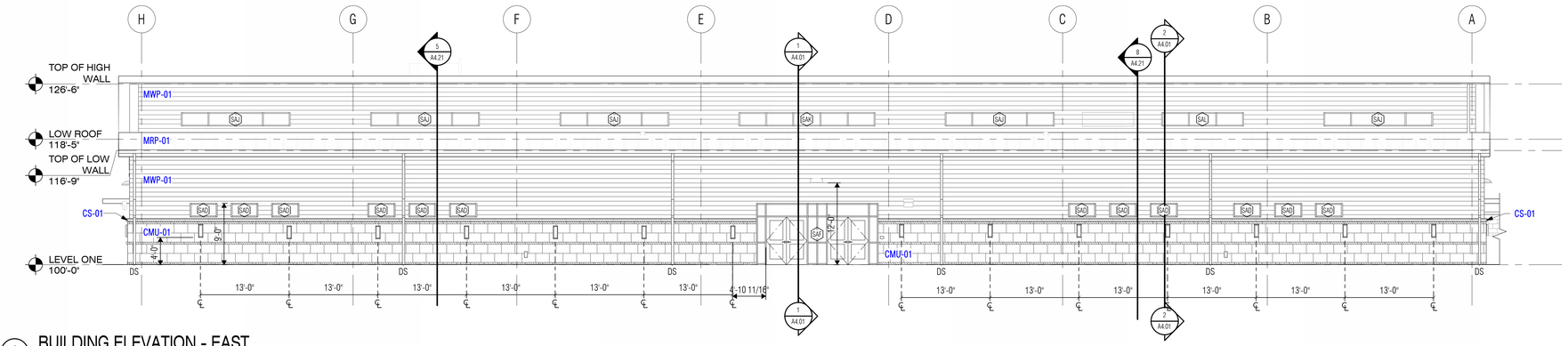
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EXTERIOR ELEVATION NOTES

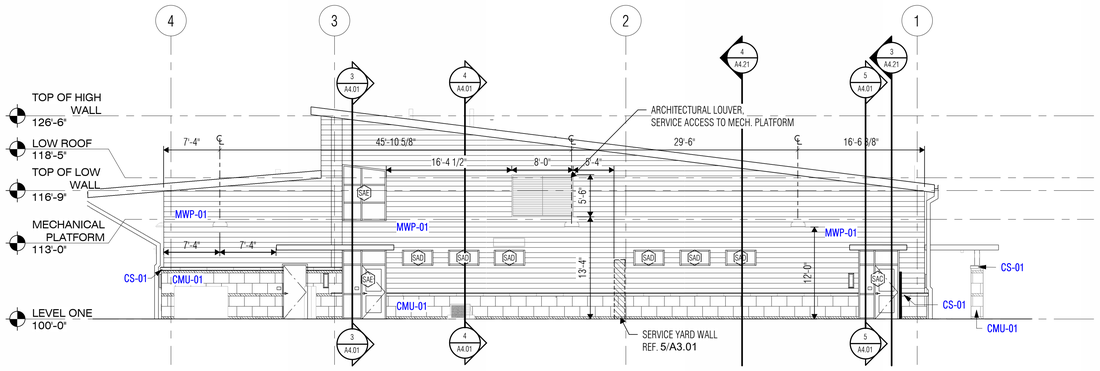
1. Refer to Sheet A3.11 for Typical Control Joint and Building Expansion Joint Details.
2. Based on the applicable design criteria, submit the proposed pattern of control joints in masonry veneer, CMU and stucco/cement plaster to the Architect for review and approval prior to construction.
3. Verify mounting heights of all Electrical and Mechanical items on the exterior of the building prior to construction, whether specifically indicated on the Exterior Elevations or not.
4. Install cast stone in accordance with the recommendations of the Cast Stone Institute, unless specifically noted or detailed otherwise.
5. Refer to Sheet A3.11 for Loose Lintel Details. Refer to Structural Drawings for maximum span and bearing requirements.
6. Terminate recessed and projected masonry veneer courses at 4" from intersecting window frames, door frames, sloping roofs, etc., unless noted otherwise.

EXTERIOR ELEVATION LEGEND

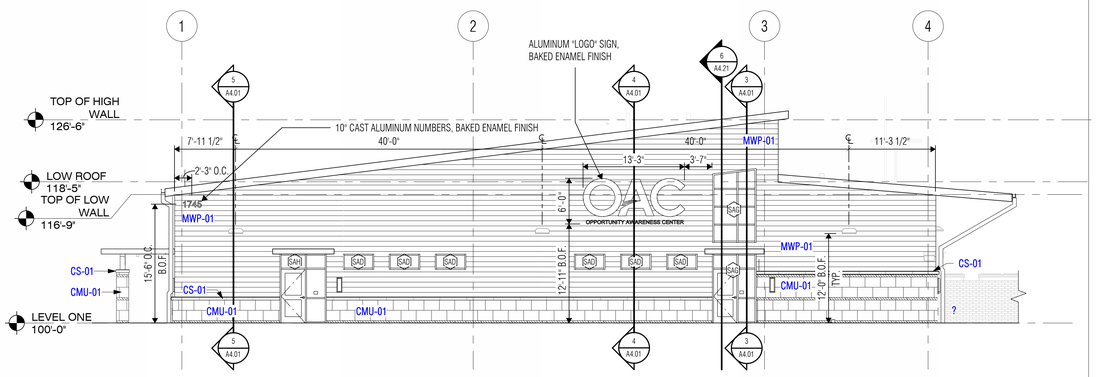
DS	DOWNSPOUT
SFX	ALUMINUM STOREFRONT, REF. SHEET A7.21
XX-##	EXTERIOR FINISH MATERIAL, REF. SHEET A9.01



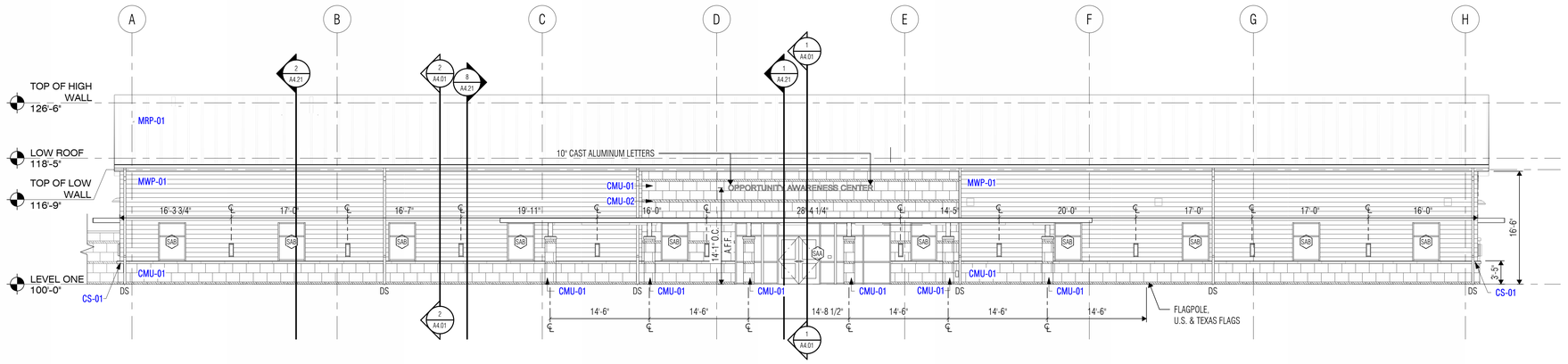
1 BUILDING ELEVATION - EAST
SCALE: 1/8" = 1'-0"



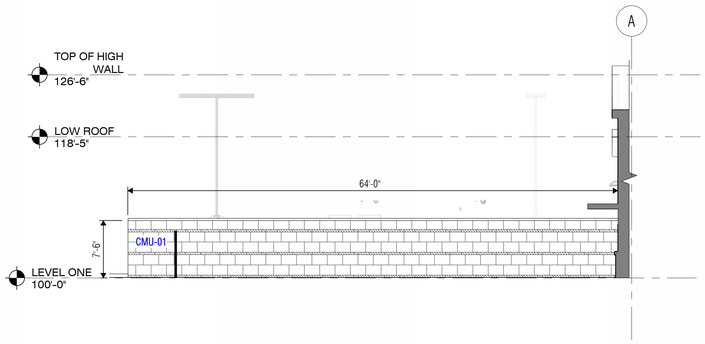
2 BUILDING ELEVATION - NORTH
SCALE: 1/8" = 1'-0"



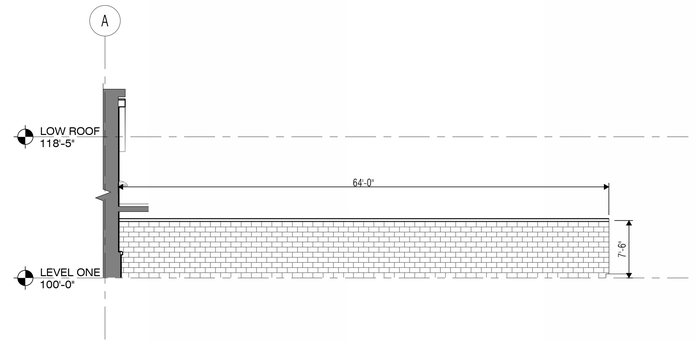
3 BUILDING ELEVATION - SOUTH
SCALE: 1/8" = 1'-0"



4 BUILDING ELEVATION - WEST
SCALE: 1/8" = 1'-0"



5 BUILDING ELEVATION - SERVICE YARD WALL WEST
SCALE: 1/8" = 1'-0"



6 BUILDING ELEVATION - SERVICE YARD WALL EAST
SCALE: 1/8" = 1'-0"

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Katy, TX

NEW OPPORTUNITY AWARENESS CENTER

REGISTERED ARCHITECT CHARLES W. JOHNSON 20944 STATE OF TEXAS
05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

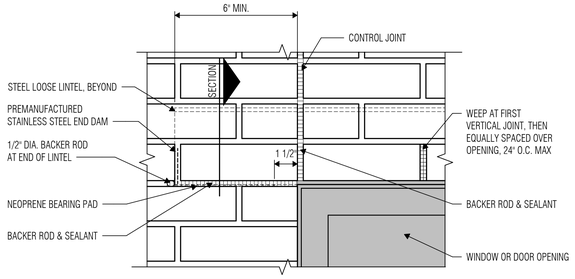
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	MCA

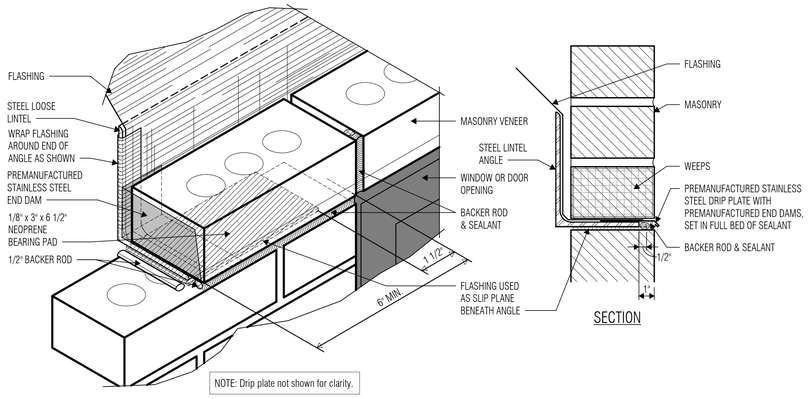
PROJECT NO.
25-0067.00

SHEET TITLE
EXTERIOR ELEVATIONS

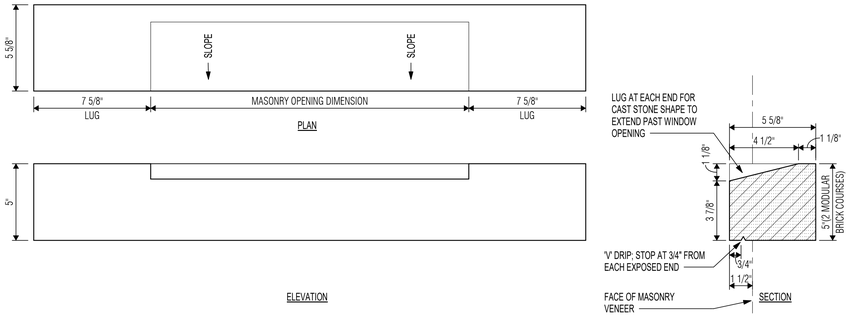
SHEET NO.
A3.01

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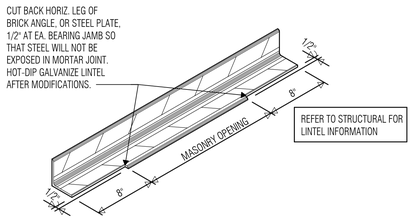




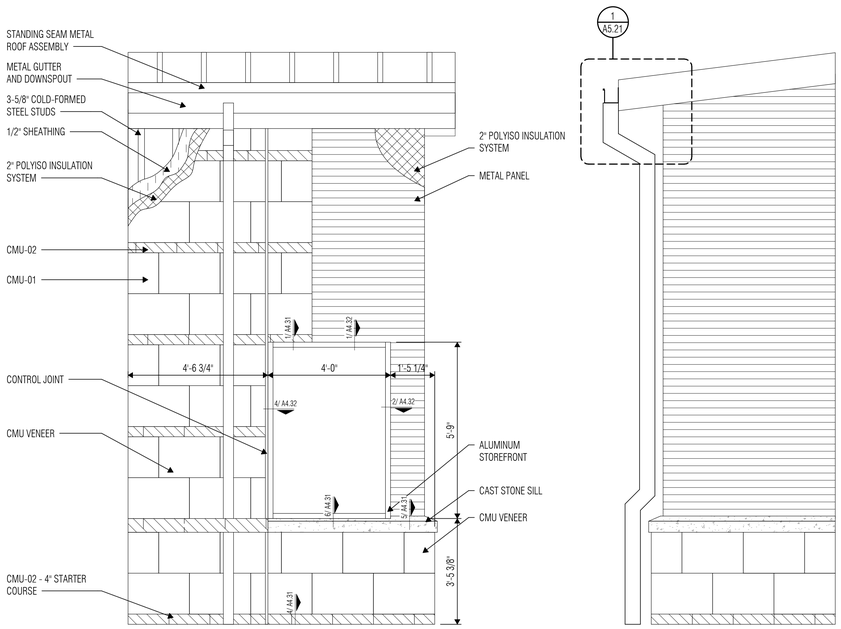
1 MASONRY VENEER CONTROL JOINT AT LOOSE LINTEL
SCALE: 3" = 1'-0"



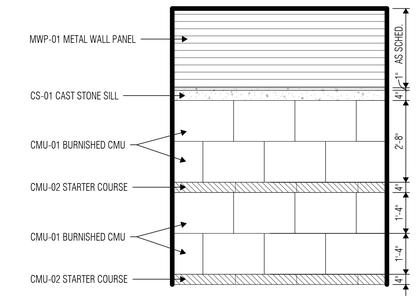
2 CAST STONE SHAPE - CS-1
SCALE: 3" = 1'-0"



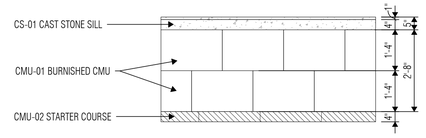
3 LOOSE LINTEL DETAIL, TYP.
SCALE: 1 1/2" = 1'-0"



4 MOCK-UP WALL
SCALE: 1/2" = 1'-0"



5 COURSING PATTERN - TALL WAINSCOT
SCALE: 1/2" = 1'-0"



6 COURSING PATTERN - SHORT WAINSCOT
SCALE: 1/2" = 1'-0"

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NEW OPPORTUNITY AWARENESS CENTER

REGISTERED ARCHITECT
STEPHEN W. JOHNSON
22944
STATE OF TEXAS
05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

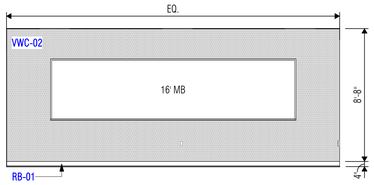
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	MCA

PROJECT NO.
25-0067.00

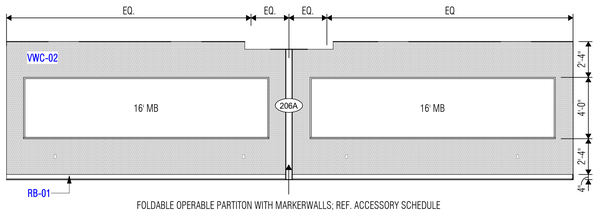
SHEET TITLE
EXTERIOR ELEVATION DETAILS

SHEET NO.
A3.11

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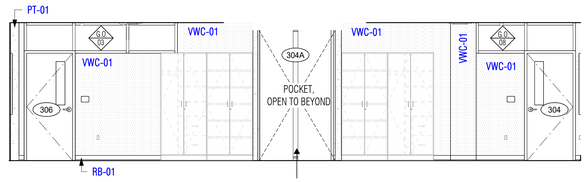


1 TYPICAL TEACHING WALL
SCALE: 1/4" = 1'-0"



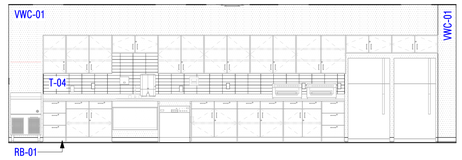
FOLDABLE OPERABLE PARTITON WITH MARKERWALLS; REF. ACCESSORY SCHEDULE

2 TYPICAL TEACHING WALL WITH OPERABLE PARTITION
SCALE: 1/4" = 1'-0"

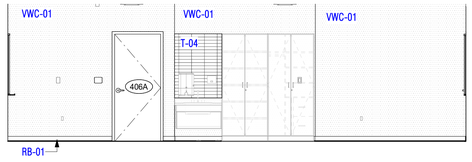


FOLDABLE OPERABLE PARTITON WITH MARKERWALLS; REF. ACCESSORY SCHEDULE

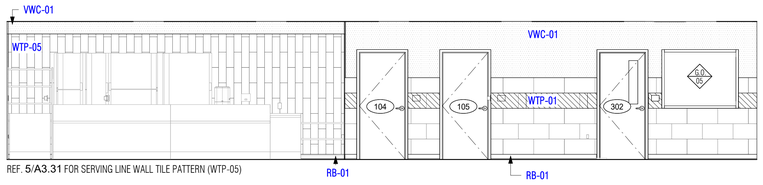
3 TYPICAL CASEWORK WALL WITH OPERABLE PARTITION
SCALE: 1/4" = 1'-0"



4 BREAK ROOM - EAST ELEVATION
SCALE: 1/4" = 1'-0"

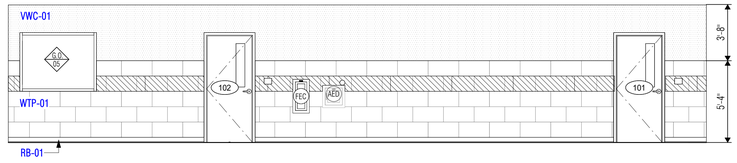


5 ELEMENTARY CLASSROOM - SINK
SCALE: 1/4" = 1'-0"

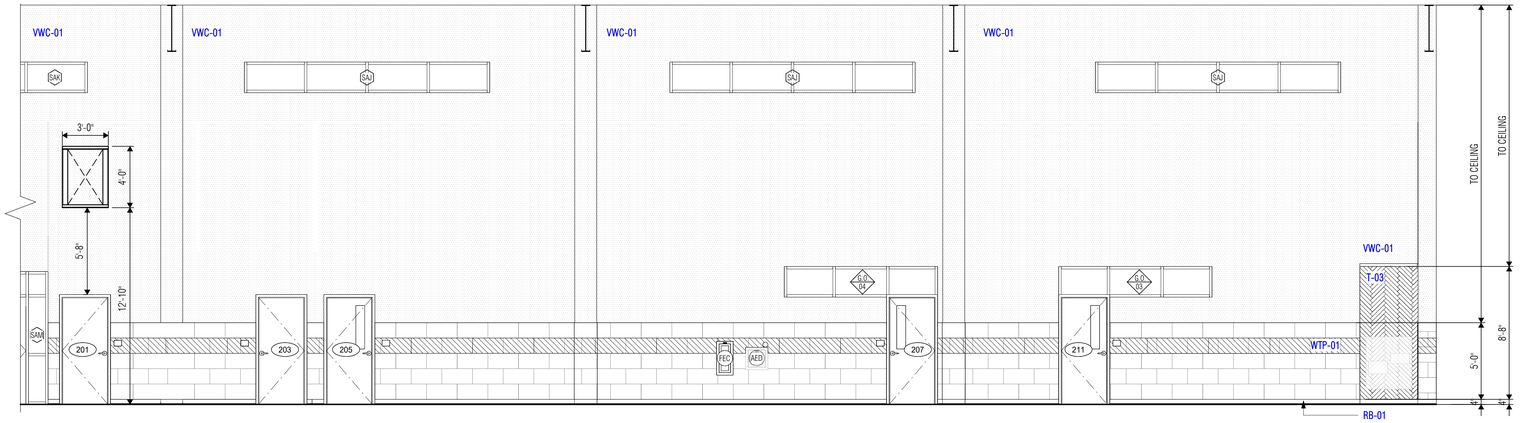


REF. 5/A3.31 FOR SERVING LINE WALL TILE PATTERN (WTP-05)

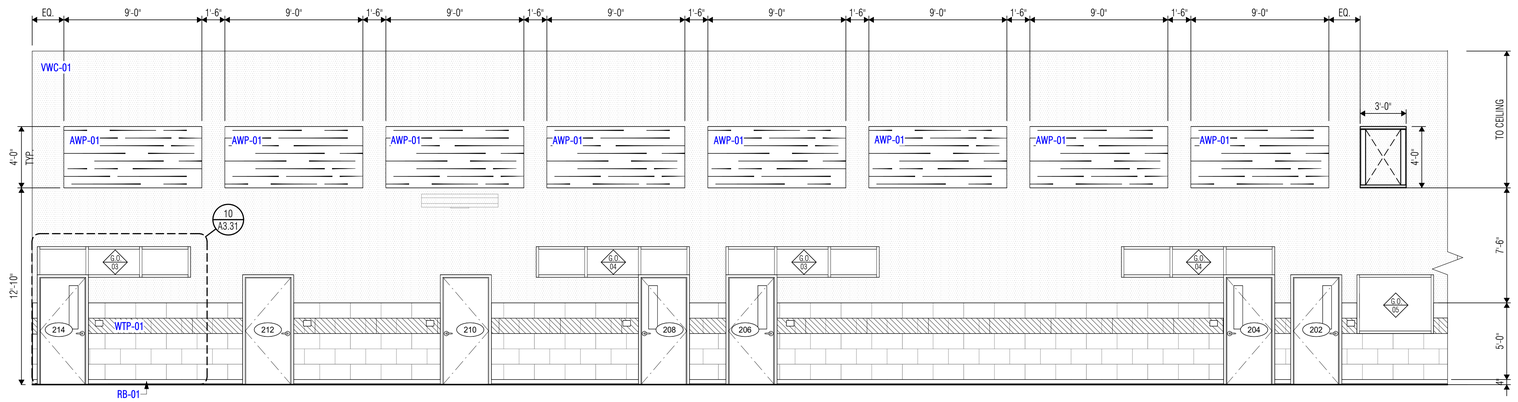
6 CORRIDOR 100 SERVING LINE - NORTH ELEVATION
SCALE: 1/4" = 1'-0"



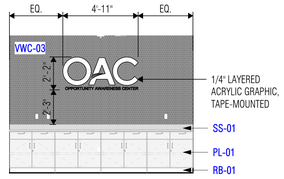
7 CORRIDOR 100 - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



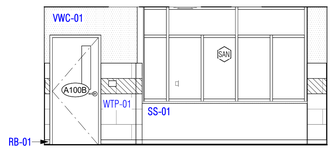
8 CORRIDOR 200 - EAST ELEVATION
SCALE: 1/4" = 1'-0"



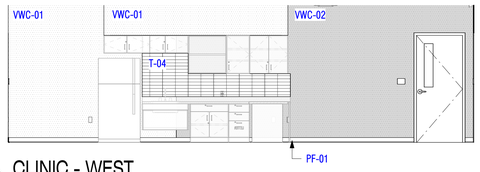
9 CORRIDOR 200 - WEST ELEVATION
SCALE: 1/4" = 1'-0"



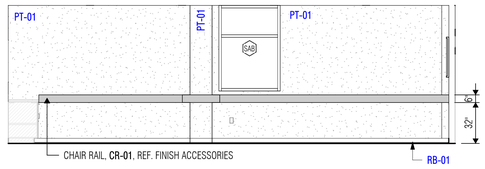
10 RECEPTION - SOUTH WALL
SCALE: 1/4" = 1'-0"



11 RECEPTION @ VESTIBULE
SCALE: 1/4" = 1'-0"



12 CLINIC - WEST
SCALE: 1/4" = 1'-0"



13 CONFERENCE ROOM - WEST
SCALE: 1/4" = 1'-0"

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JAMES W. JOHNSON
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REGISTERED ARCHITECT
STATE OF TEXAS
05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

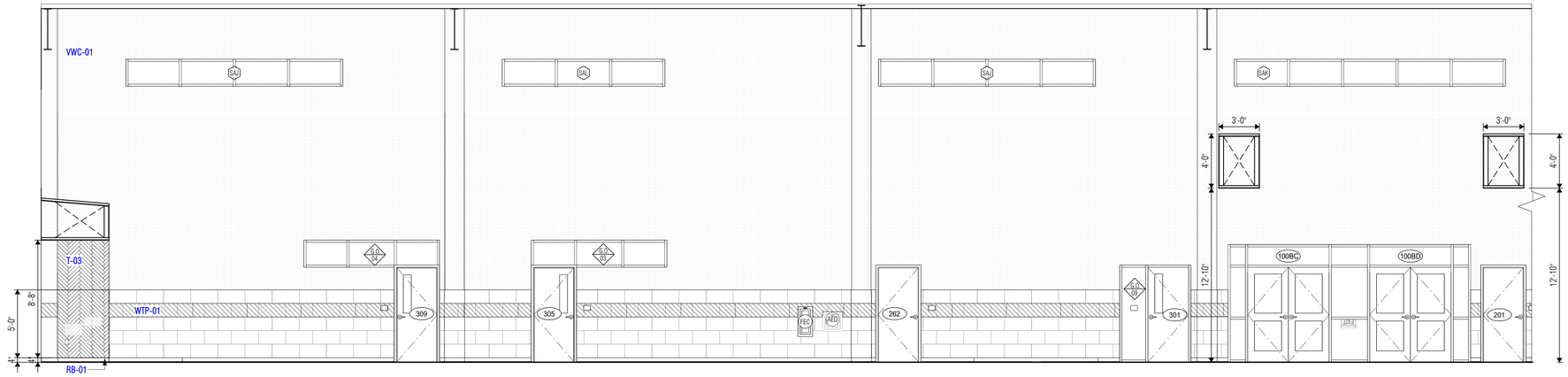
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	HEF/LY

PROJECT NO.
25-0067.00

SHEET TITLE
INTERIOR ELEVATIONS

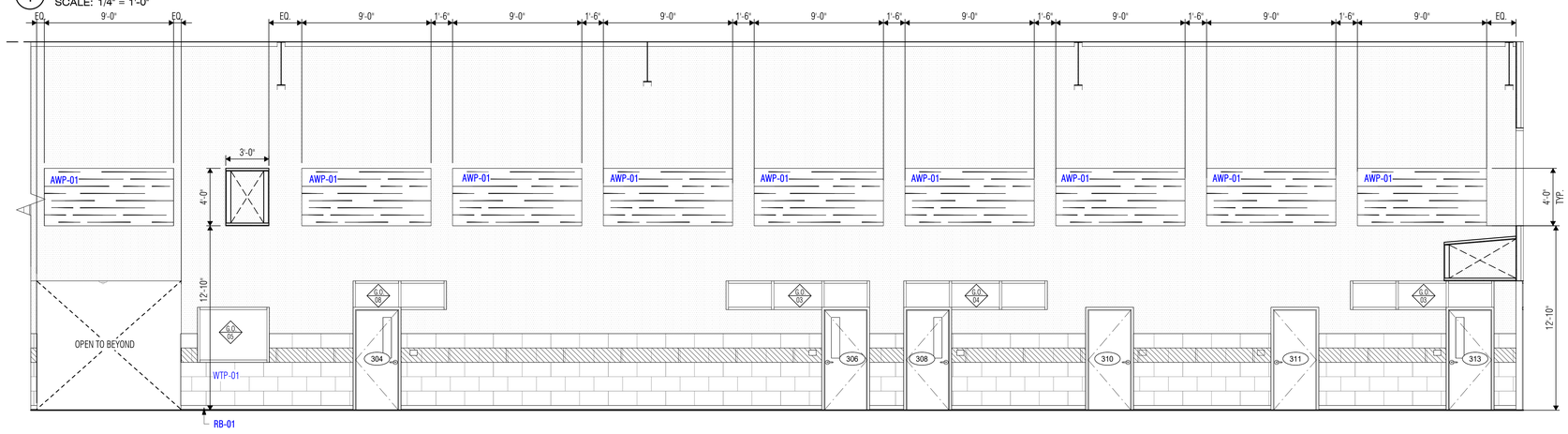
SHEET NO.
A3.21

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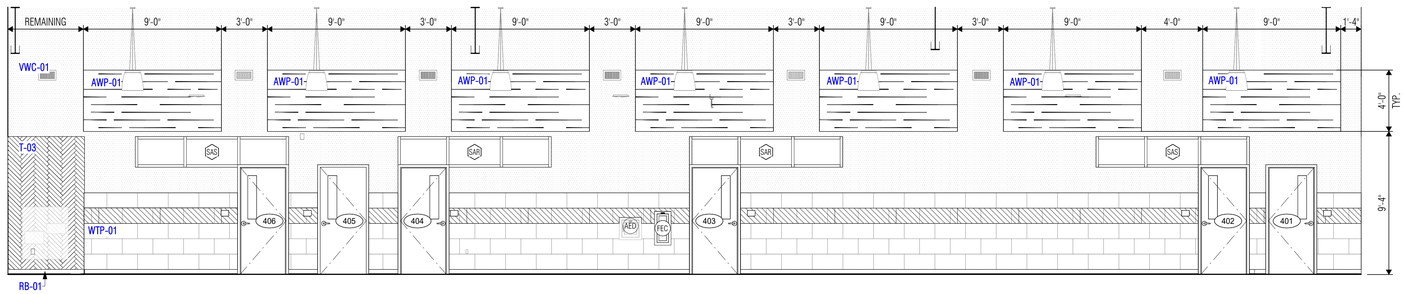
1 CORRIDOR 300 - EAST ELEVATION

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



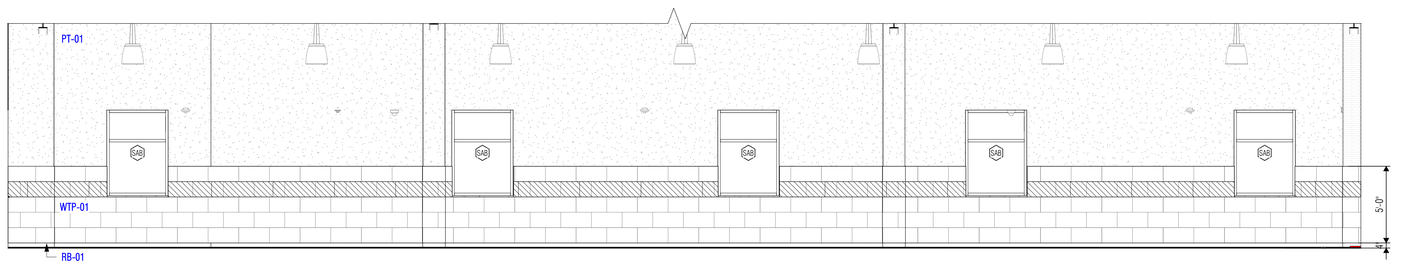
2 CORRIDOR 300 - WEST ELEVATION

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



3 CORRIDOR 400 - EAST ELEVATION

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



4 CORRIDOR 400 - WEST ELEVATION

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

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REGISTERED ARCHITECT
CHARLES W. JOHNSON
STATE OF TEXAS

05/26/2026

ISSUED: May 26, 2026

REVISIONS

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Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	HEF/LY

PROJECT NO.

25-0067.00

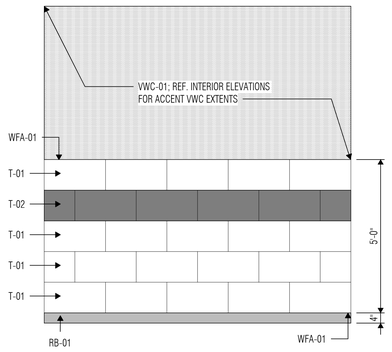
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INTERIOR ELEVATIONS

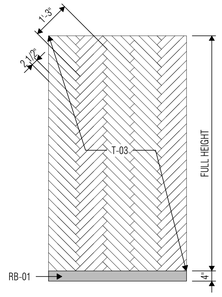
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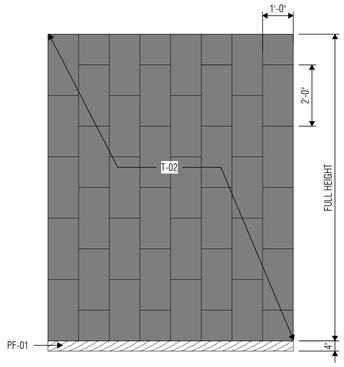
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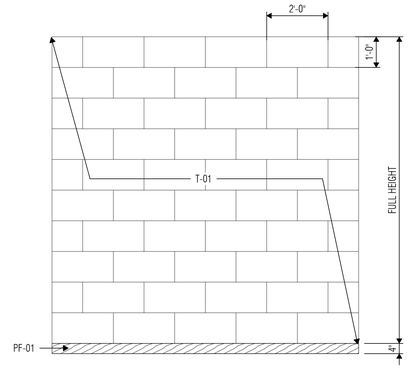
1 WAINSCOT TILE PATTERN (WTP-01)
SCALE: 1/2" = 1'-0"



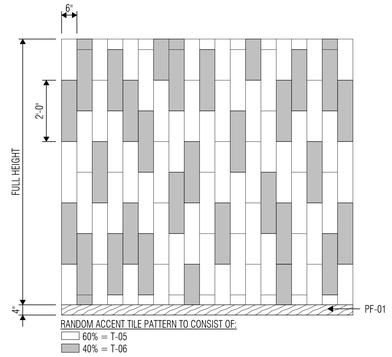
2 DRINKING FOUNTAIN TILE (WTP-02)
SCALE: 1/2" = 1'-0"



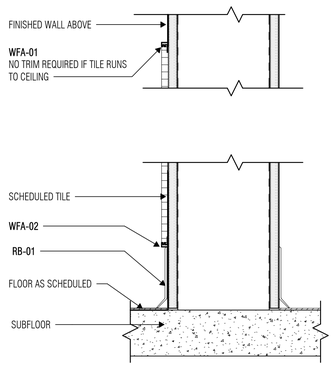
3 RESTROOMS WET WALL (WTP-03)
SCALE: 1/2" = 1'-0"



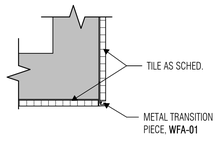
4 RESTROOMS FIELD (WTP-04)
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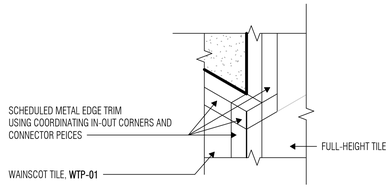
5 SERVING LINE TILE (WTP-05)
SCALE: 1/2" = 1'-0"



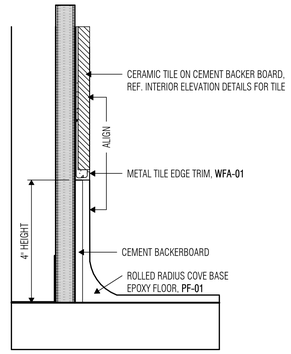
6 WALL TILE TO RUBBER BASE
SCALE: 3" = 1'-0"



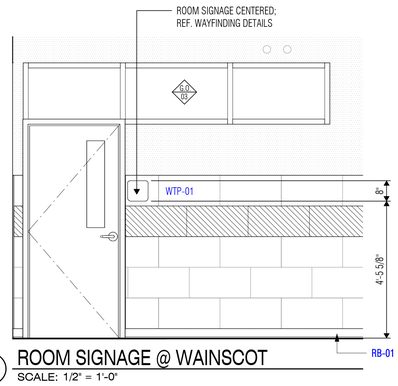
7 PLAN DETAIL AT TILE TO OUTSIDE CORNER
SCALE: 3" = 1'-0"



8 TRIM DETAIL AT HALF HEIGHT TILE TO FULL HEIGHT TILE
SCALE: 6" = 1'-0"



9 WALL TILE TO EPOXY COVE BASE
SCALE: 6" = 1'-0"



10 ROOM SIGNAGE @ WAINSCOT
SCALE: 1/2" = 1'-0"

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CHARLES W. JOHNSON
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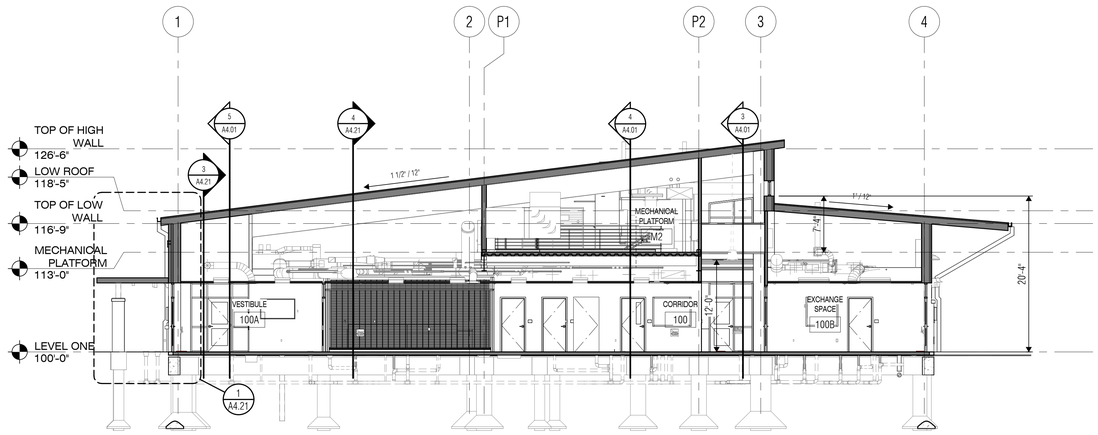
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	HEF/LY

PROJECT NO.
25-0067.00

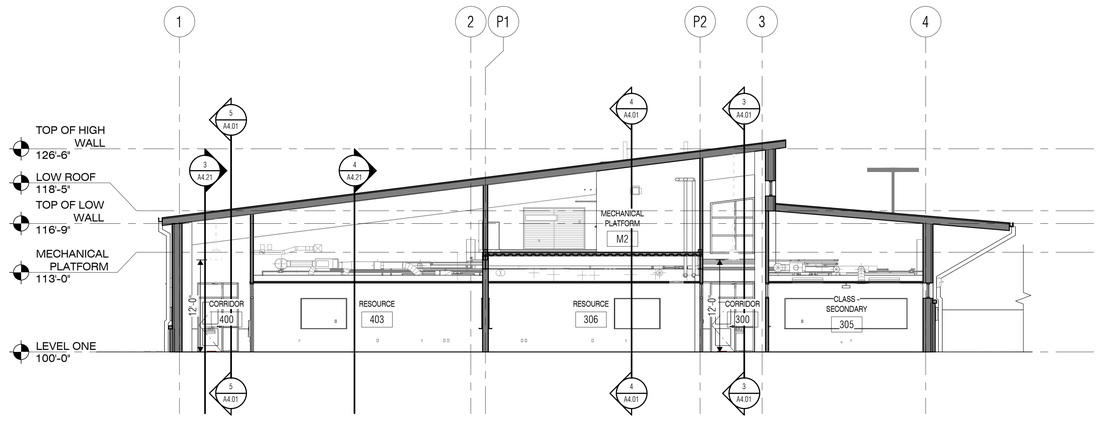
SHEET TITLE
INTERIOR ELEVATION DETAILS

SHEET NO.
A3.31

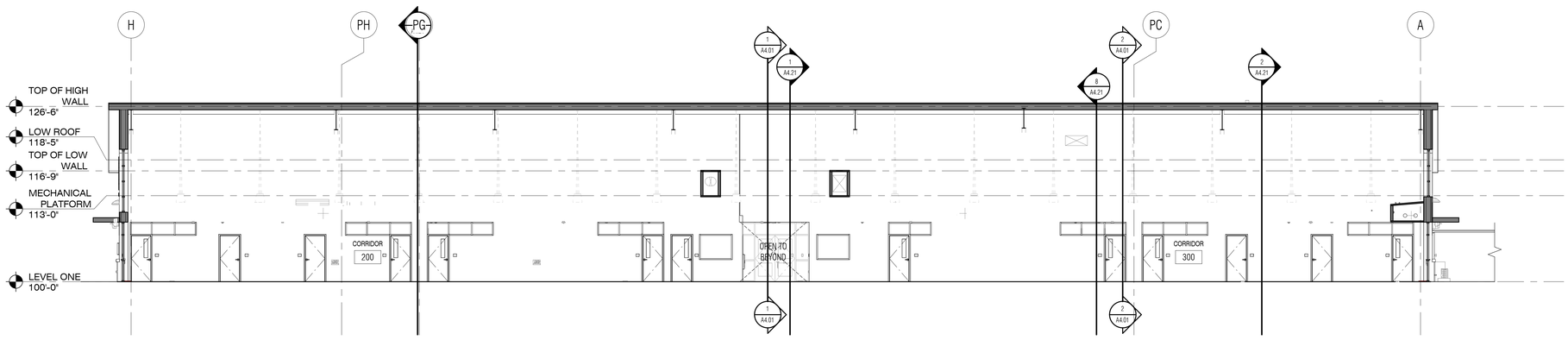
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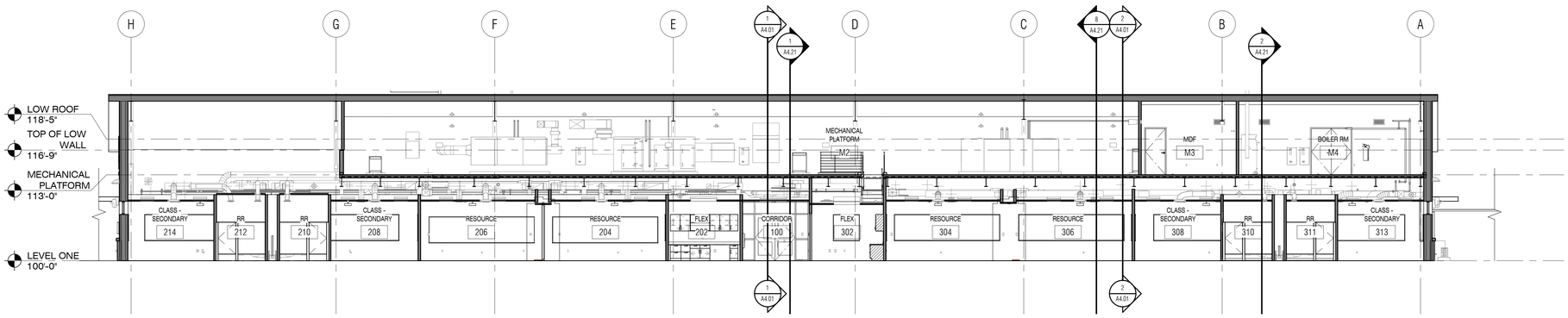
1 BUILDING SECTION
SCALE: 1/8" = 1'-0"



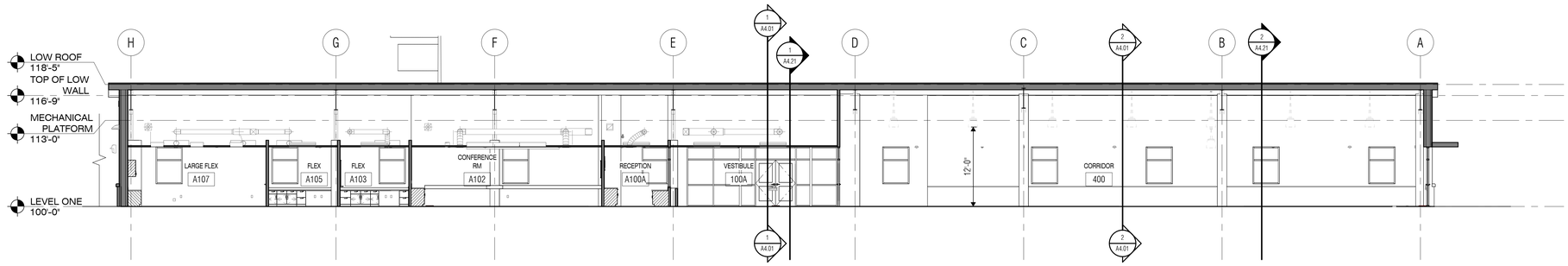
2 BUILDING SECTION
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3 BUILDING SECTION
SCALE: 1/8" = 1'-0"



4 BUILDING SECTION
SCALE: 1/8" = 1'-0"



5 BUILDING SECTION
SCALE: 1/8" = 1'-0"

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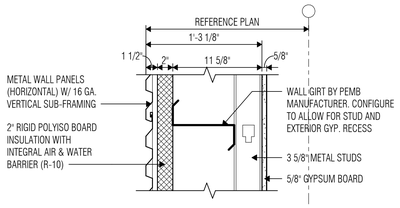
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	JGH / CLP

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25-0067.00

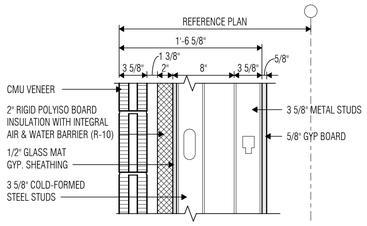
SHEET TITLE
BUILDING SECTIONS

SHEET NO.
A4.01

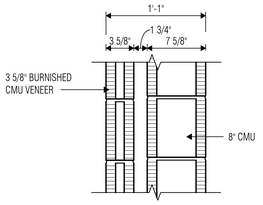
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MWS-24 WATERTIGHT METAL WALL PANELS (HORIZONTAL) ON METAL BUILDING SYSTEM FRAMING

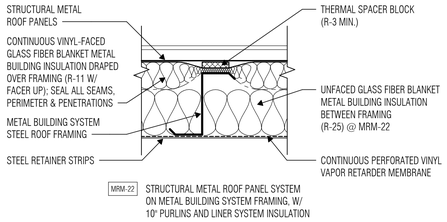


CVS-21 CMU VENEER (3 5/8") ON 3 5/8" STEEL STUDS



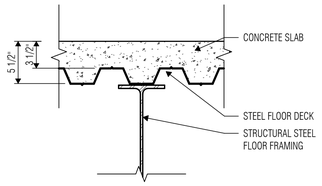
CVC-01 CMU VENEER (3 5/8") ON 8" CMU

1 EXTERIOR WALL ASSEMBLIES
SCALE: 1 1/2" = 1'-0"

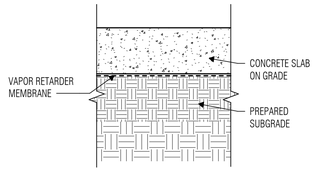


MRM-22 STRUCTURAL METAL ROOF PANEL SYSTEM ON METAL BUILDING SYSTEM FRAMING, W/ 10" PURLINS AND LINER SYSTEM INSULATION

2 ROOF ASSEMBLIES
SCALE: 1 1/2" = 1'-0"

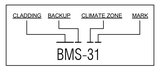


CSS-01 CONCRETE SLAB ON STEEL DECK & FRAMING UL D925



CSG-01 CONCRETE SLAB ON GRADE

3 FLOOR ASSEMBLIES
SCALE: 1 1/2" = 1'-0"



BUILDING ASSEMBLY MASTER LIST

TYPE MARK	DESCRIPTION
	<varies>
Floor	
CSG-01	Concrete Slab on Grade
CSS-01	Concrete Slab on Steel Deck & Framing
Wall	
BKC-01	Brick Veneer (King Size) on 8" CMU (screen wall; non-conditioned building)
CVC-01	CMU Veneer (3 5/8") on 8" CMU (screen wall; non-conditioned building)
CVS-21	<varies>
MWS-24	Watertight Metal Wall Panels (Horizontal) on Metal Building System Framing
Roof	
MRM-22	Structural Metal Roof Panel System on Metal Building System Framing, w/8" Purlins and Liner System Insulation

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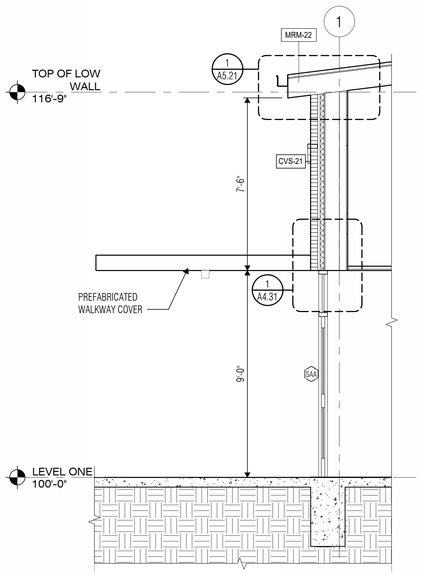
Director	Charles Johnson
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Designer	Brad Ewing
Drawn By	JGH / CLP

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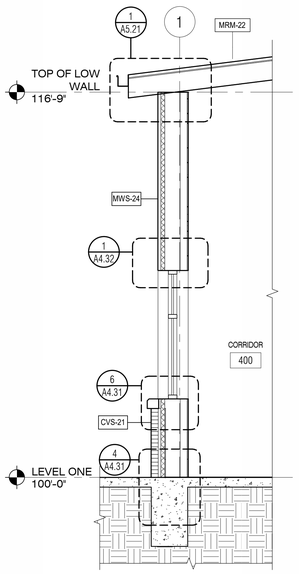
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BUILDING ASSEMBLY TYPES

SHEET NO.
A4.11

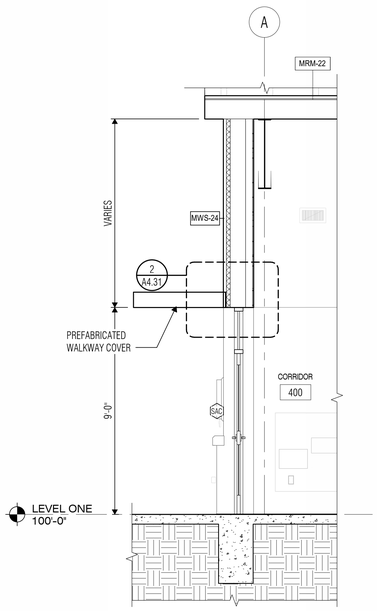
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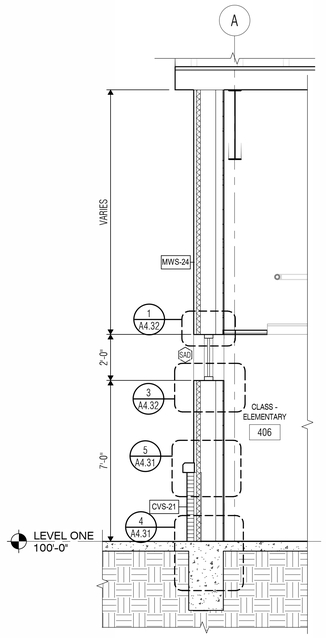
1 WALL SECTION
SCALE: 3/8" = 1'-0"



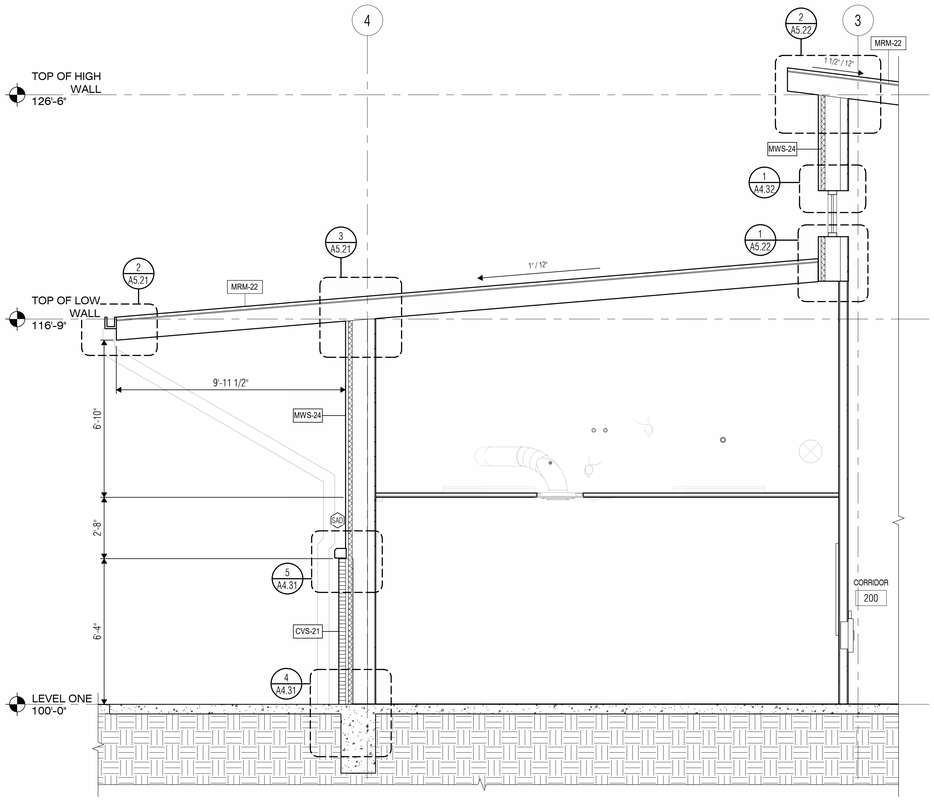
2 WALL SECTION
SCALE: 3/8" = 1'-0"



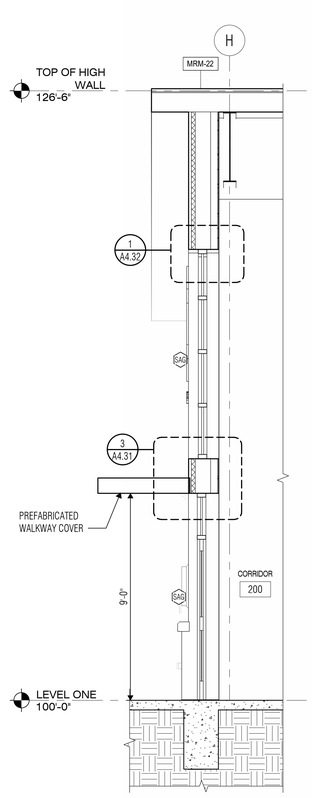
3 WALL SECTION
SCALE: 3/8" = 1'-0"



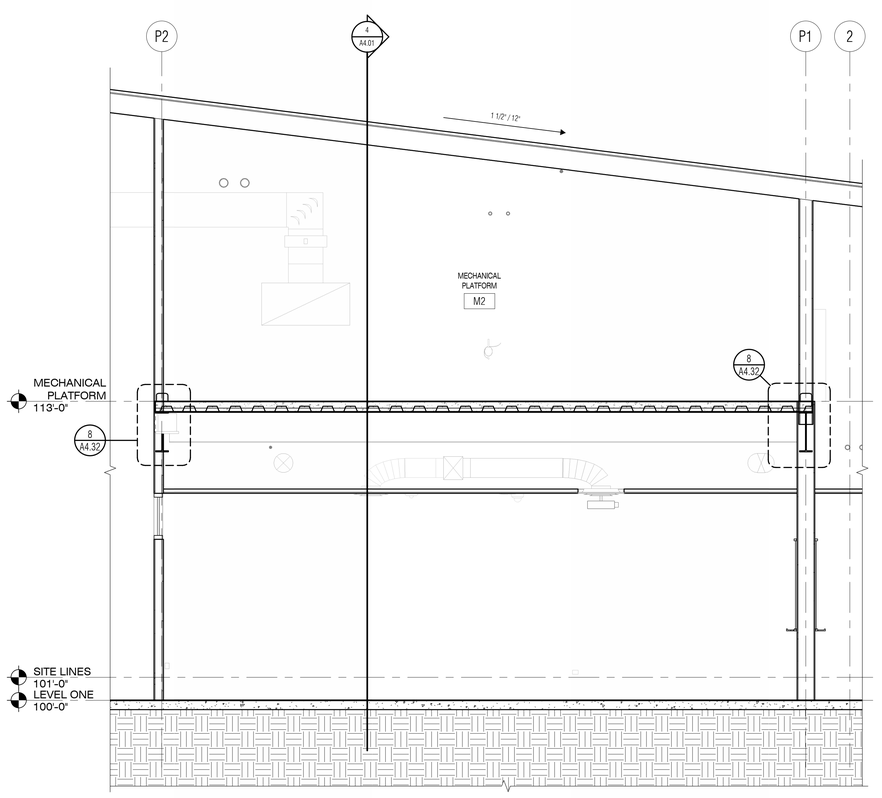
4 WALL SECTION
SCALE: 3/8" = 1'-0"



5 WALL SECTION
SCALE: 3/8" = 1'-0"



6 WALL SECTION
SCALE: 3/8" = 1'-0"



8 WALL SECTION AT PLATFORM
SCALE: 3/8" = 1'-0"

CLADDING BACKUP CLIMATE ZONE MARK
BMS-31

BUILDING ASSEMBLY LEGEND

TYPE MARK	DESCRIPTION
Floor	
CSG-01	Concrete Slab on Grade
CSS-01	Concrete Slab on Steel Deck & Framing
Wall	
CVS-21	CMU Veneer (3 5/8") on 3 5/8" Steel Studs
MWS-24	Watertight Metal Wall Panels (Horizontal) on Metal Building System Framing
Roof	
MRM-22	Structural Metal Roof Panel System on Metal Building System Framing, w/8" Purlins and Liner System Insulation

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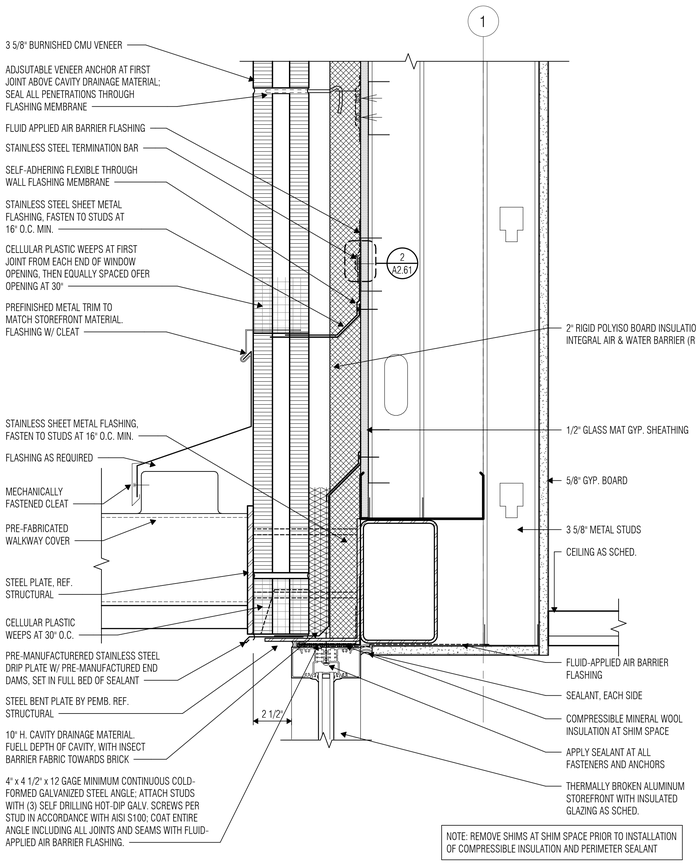
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	JGH / CLP

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25-0067.00

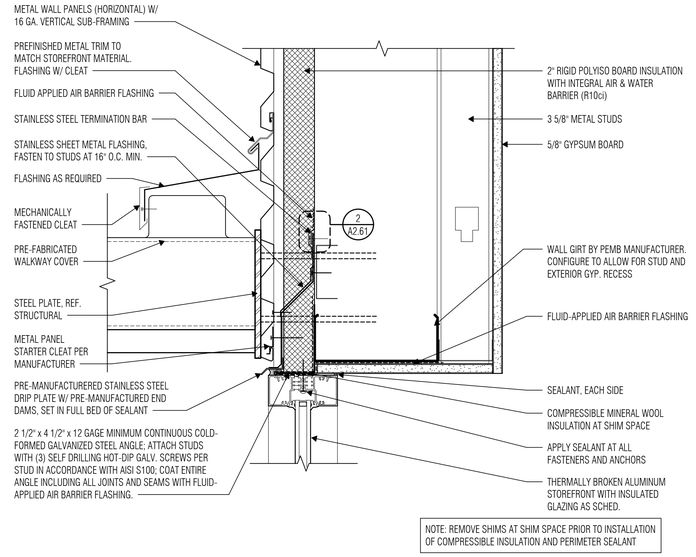
SHEET TITLE
WALL SECTIONS

SHEET NO.
A4.21

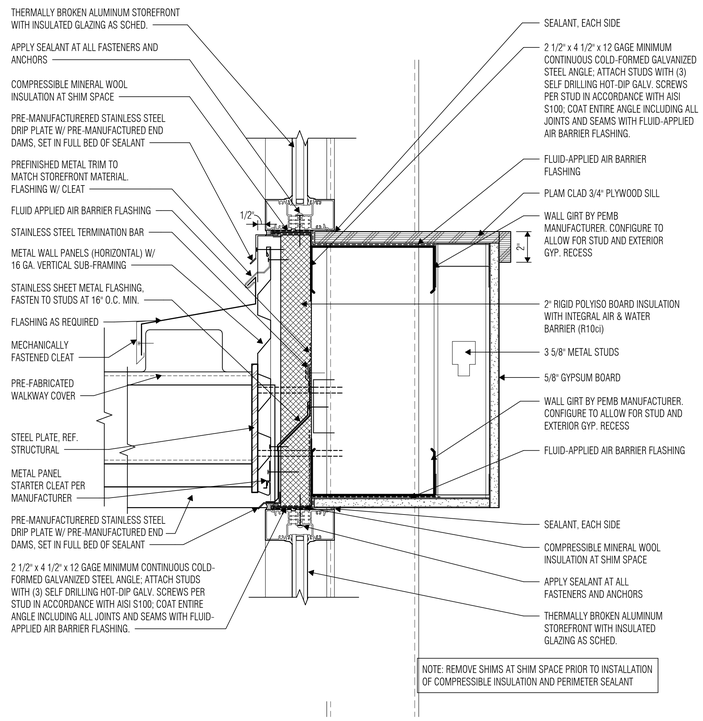
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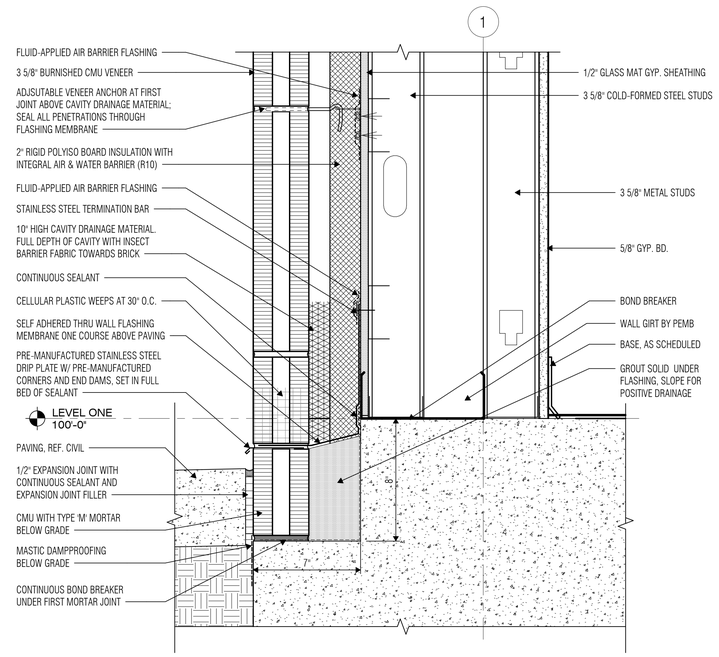
1 CVS WALL AT STOREFRONT HEAD W/ CANOPY
SCALE: 3" = 1'-0"



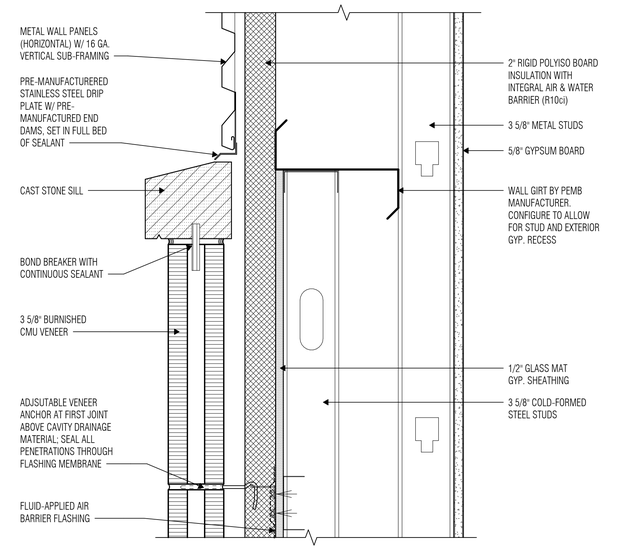
2 MWS WALL AT STOREFRONT HEAD W/ CANOPY
SCALE: 3" = 1'-0"



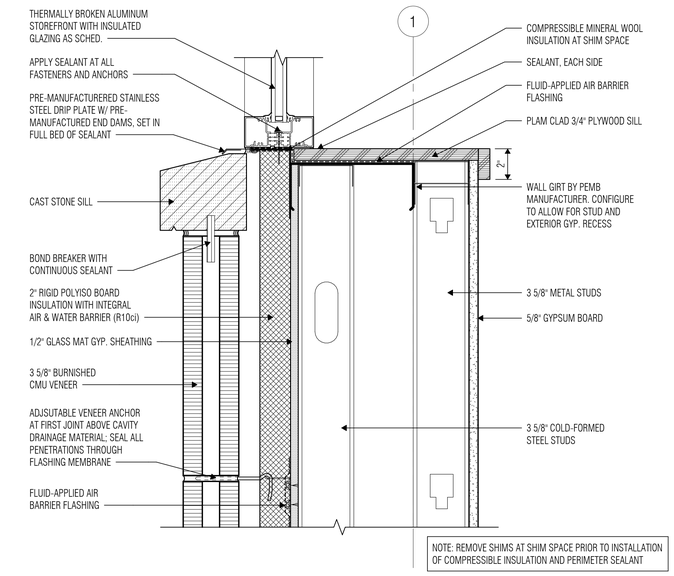
3 MWS WALL AT STOREFRONT W/ CANOPY
SCALE: 3" = 1'-0"



4 CVS WALL AT GRADE LEVEL
SCALE: 3" = 1'-0"



5 MWS TO CVS TRANSITION AT CAST STONE
SCALE: 3" = 1'-0"



6 CVS WALL AT STOREFRONT SILL
SCALE: 3" = 1'-0"

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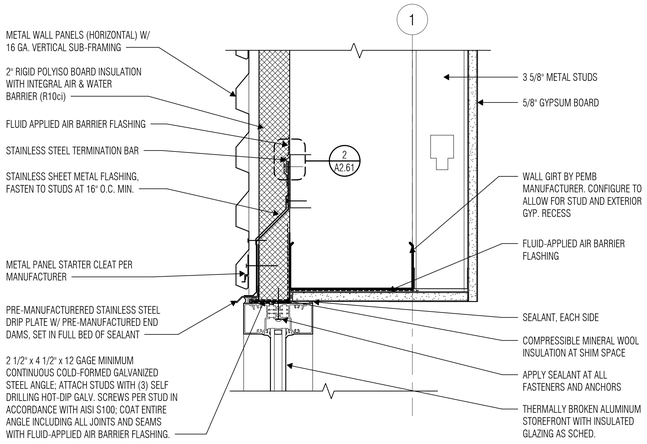
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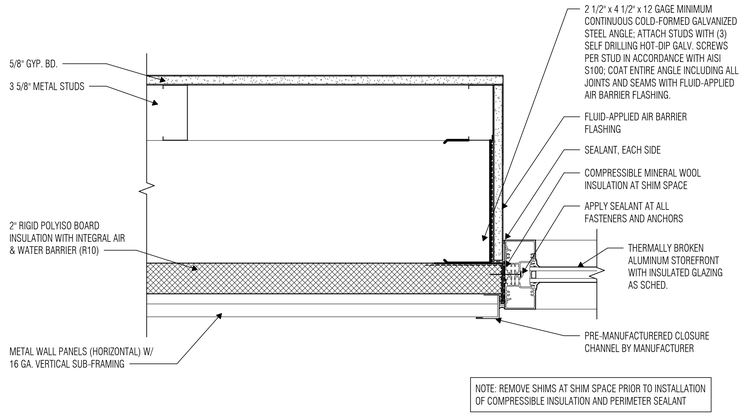
SHEET TITLE
BUILDING ASSEMBLY DETAILS

SHEET NO.
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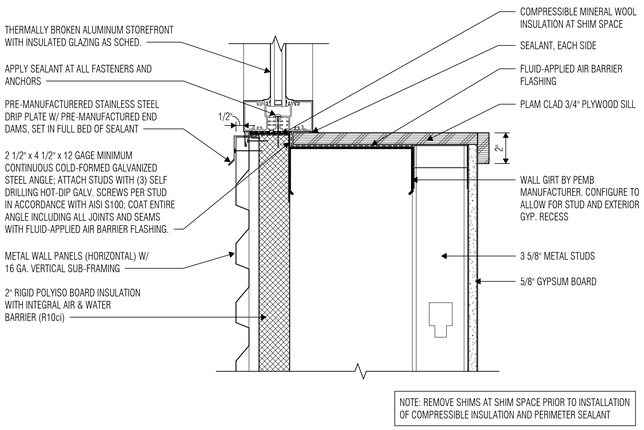
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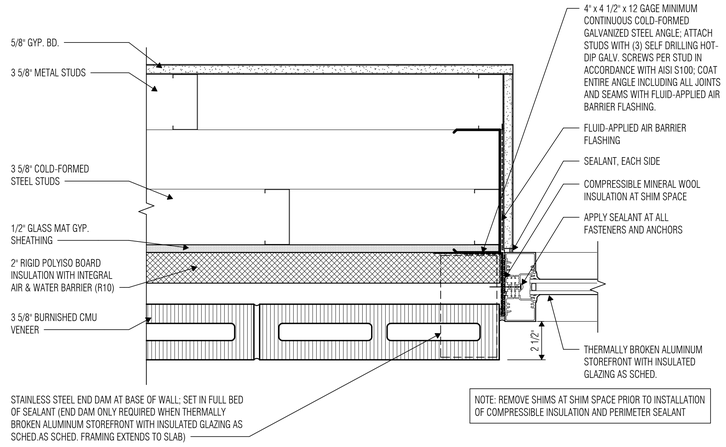
1 MWS WALL AT STOREFRONT HEAD
SCALE: 3" = 1'-0"



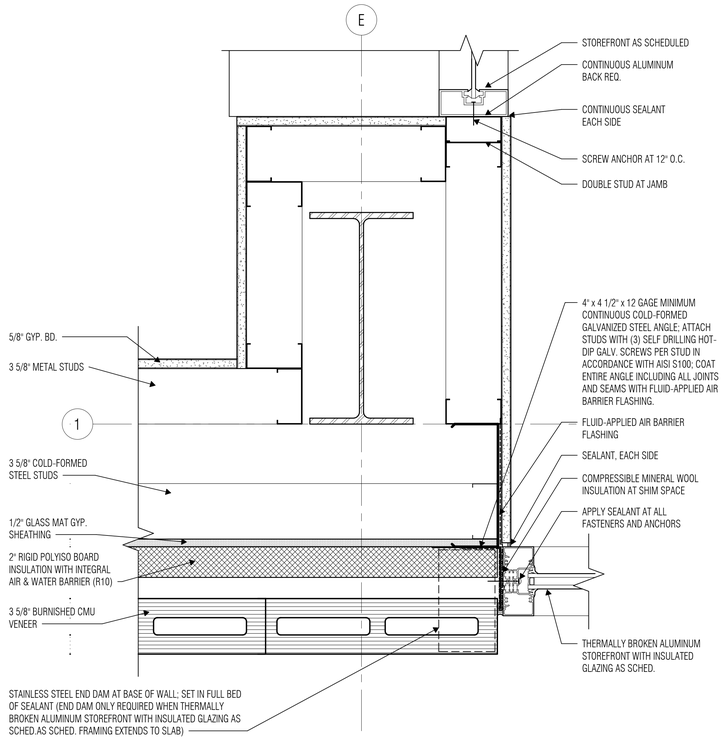
2 MWS STOREFRONT AT JAMB
SCALE: 3" = 1'-0"



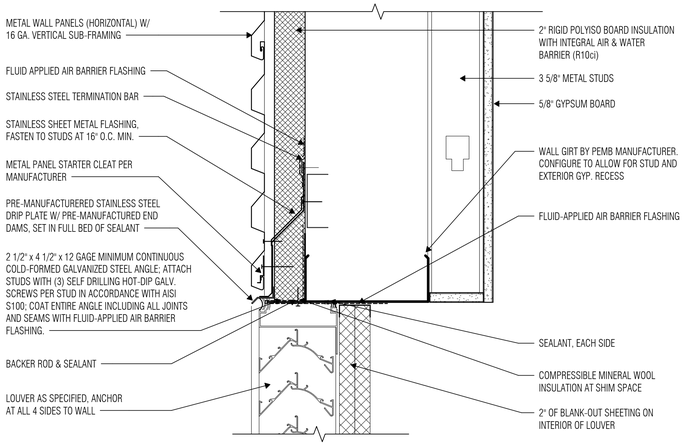
3 MWS WALL AT STOREFRONT SILL
SCALE: 3" = 1'-0"



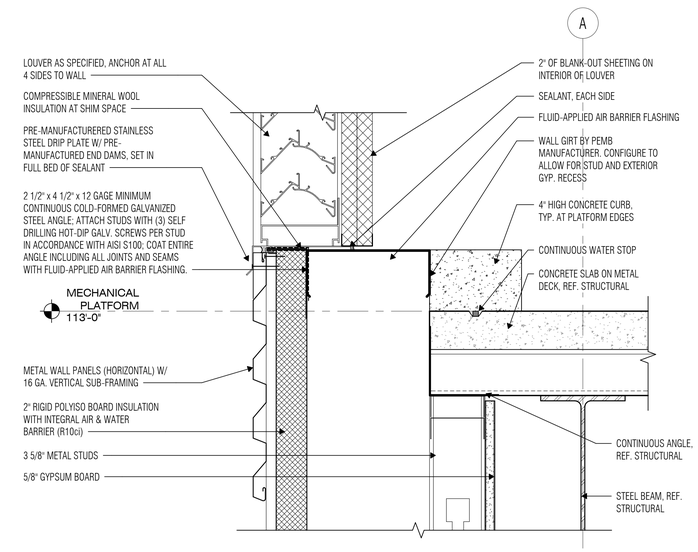
4 CVS STOREFRONT AT JAMB
SCALE: 3" = 1'-0"



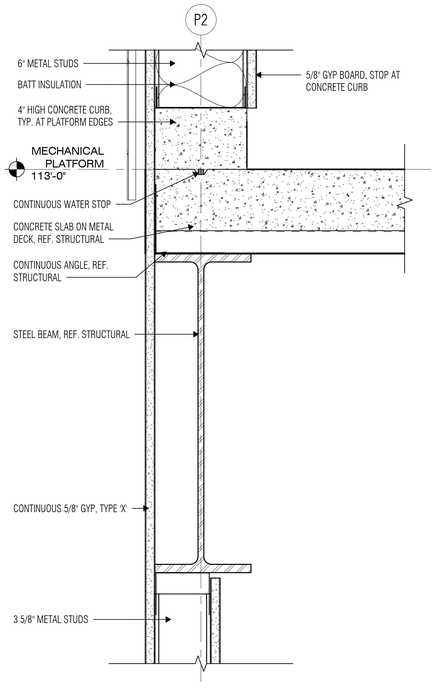
5 DETAIL AT FRONT STOREFRONT
SCALE: 3" = 1'-0"



6 HEAD DETAIL AT ARCH LOUVER
SCALE: 3" = 1'-0"



7 SILL DETAIL AT ARCH LOUVER
SCALE: 3" = 1'-0"



8 DETAIL AT PLATFORM CURB
SCALE: 3" = 1'-0"

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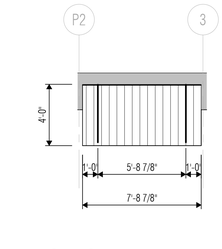
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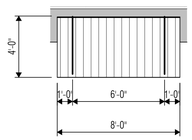
SHEET TITLE
BUILDING ASSEMBLY DETAILS

SHEET NO.
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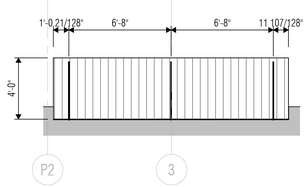
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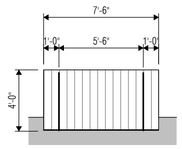
6 CANOPY PLAN - E
SCALE: 1/4" = 1'-0"



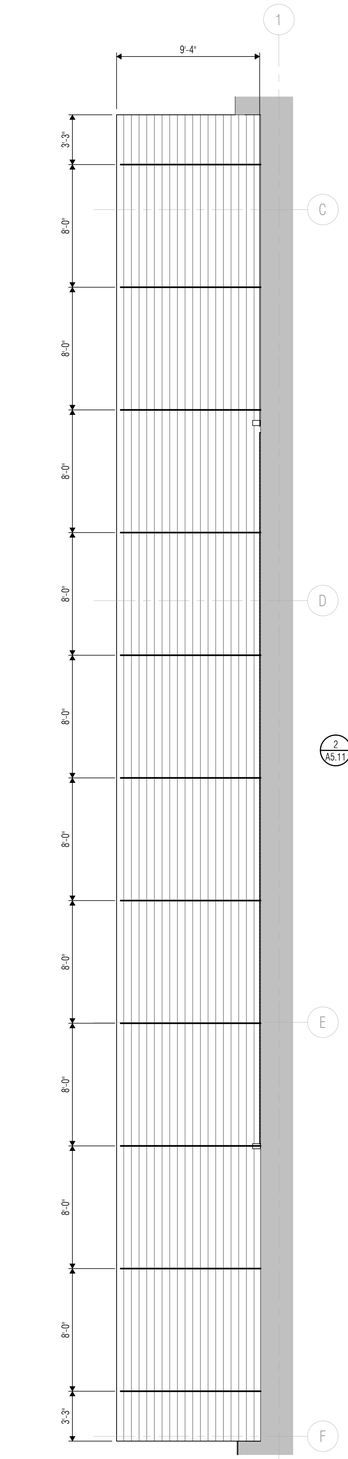
5 CANOPY PLAN - D
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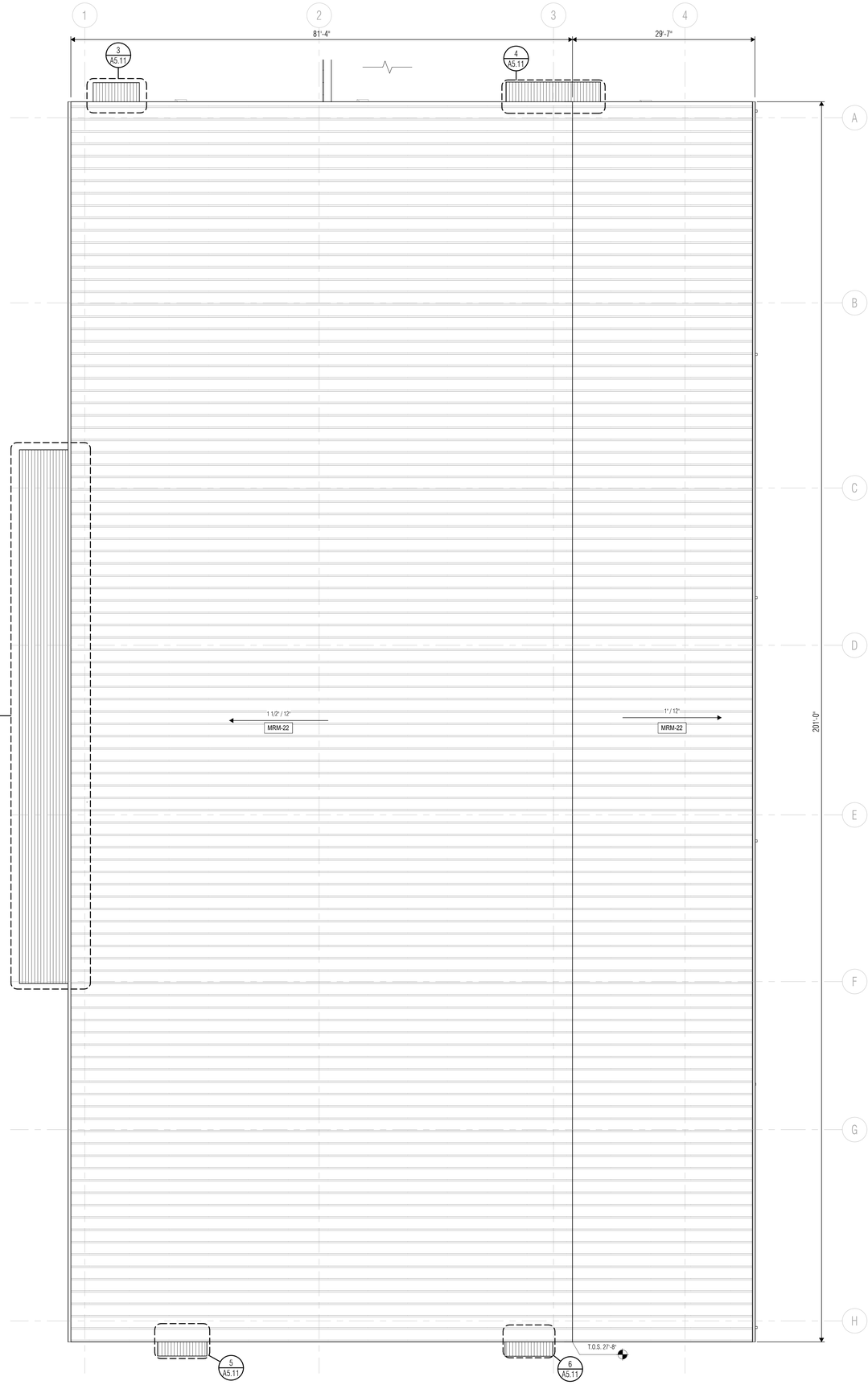
4 CANOPY PLAN - C
SCALE: 1/4" = 1'-0"



3 CANOPY PLAN - B
SCALE: 1/4" = 1'-0"



2 CANOPY PLAN - A
SCALE: 1/4" = 1'-0"



1 OVERALL ROOF PLAN
SCALE: 1/8" = 1'-0"

ROOF PLAN NOTES

1. Provide tapered insulation crickets at the high side of all rooftop curbs, mounting rails, and other miscellaneous roof penetrations as required to shed water around them and to ensure positive roof drainage, whether indicated on the drawings or not.
2. Crickets shall slope 1/2" per foot, unless noted otherwise.
3. Locate overflow scuppers per Building Elevations. If conflicts occur, contact Architect prior to construction.
4. Provide roof walkway protection at base of all roof ladders, around all sides of roof hatches, on all sides of rooftop units and condensing units, and on paths leading from roof access points to rooftop units and condensing units, whether indicated on drawings or not.
5. Provide layer of roof walkway protection under all pipe and conduit supports, fully-adhered to roof membrane.
6. Provide additional layer of single-ply roof membrane at the discharge point of downspouts, where splash pans are not provided.
7. Provide metal end closure at the ends of expansion joints, flashings and counterflashings.
8. Paint all exposed galvanized metal flashings, miscellaneous steel, piping, conduits, etc. that are not prefinished.

ROOF PLAN LEGEND

MRP	PREFINISHED METAL ROOF PANELS
T.O.D.	TOP OF DECK ELEVATION
T.O.S.	TOP OF STEEL ELEVATION
DS	DOWNSPOUT, REF. 5/A2.61
MC	MANUFACTURED COPING, REF. 4/A2.61
RV	RELIEF VENT, REF. M.E.P.
EF	EXHAUST FAN, REF. M.E.P.

GENERAL CANOPY NOTES

1. ALL CANOPIES TO BE CONSTRUCTED OF 2 3/4" DECK WITH 6" X 6" GUTTER BEAMS AND 3" X 8" FASCIAS, U.N.O.
2. ALL CANOPIES TO BE 9' - 0" A.F.F. U.N.O.
3. REF. ROOF PLAN FOR CANOPY LOCATIONS

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REVISIONS

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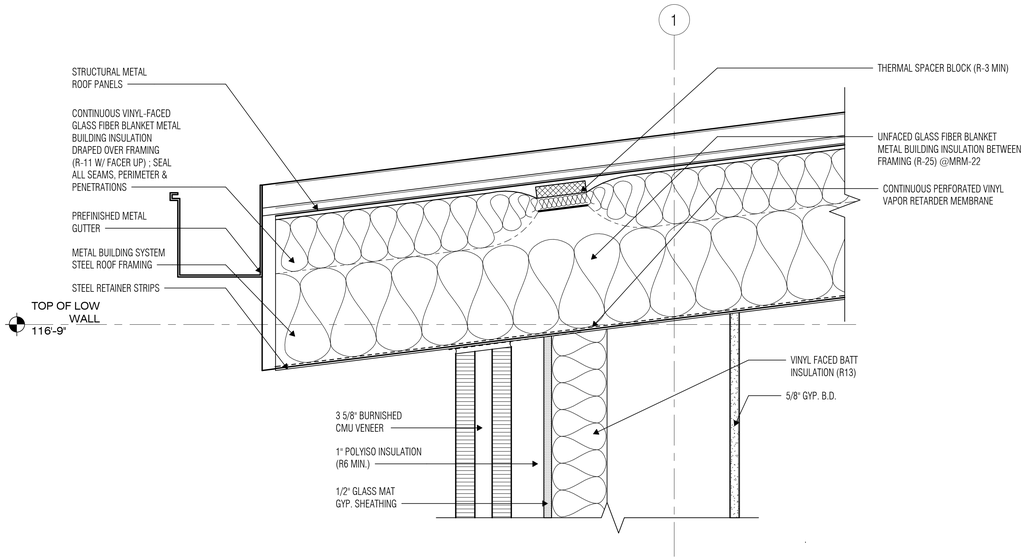
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	MCA

PROJECT NO.
25-0067.00

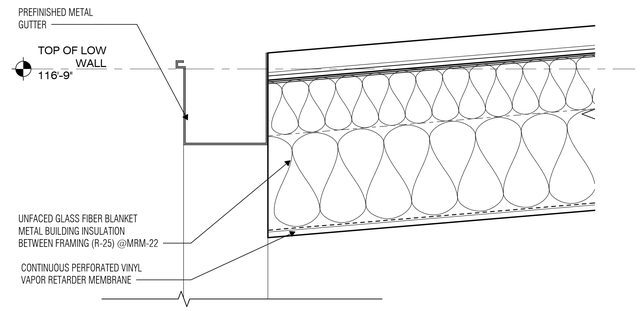
SHEET TITLE
OVERALL ROOF & CANOPY PLANS

SHEET NO.
A5.11

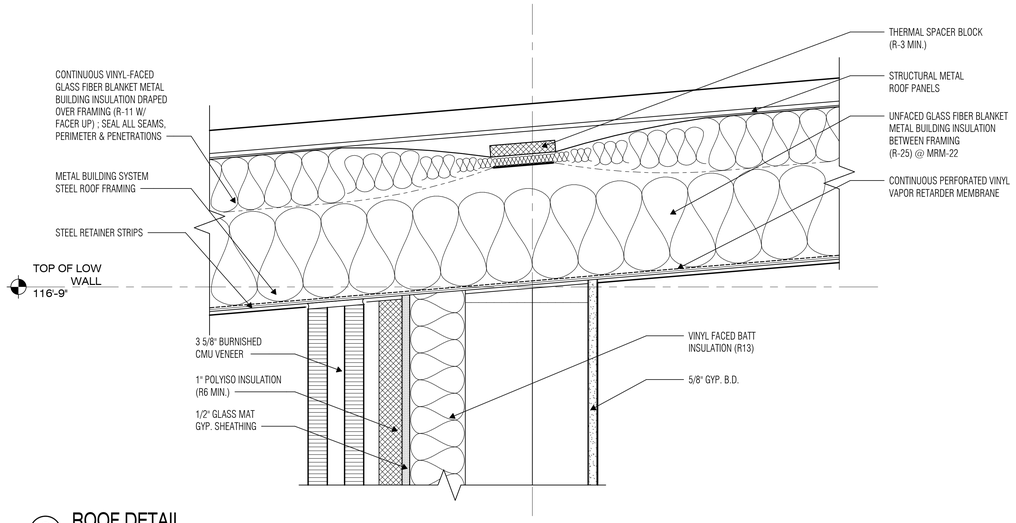
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1 ROOF DETAIL
SCALE: 3" = 1'-0"



2 ROOF DETAIL
SCALE: 3" = 1'-0"



3 ROOF DETAIL
SCALE: 3" = 1'-0"

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NEW OPPORTUNITY AWARENESS CENTER

REGISTERED ARCHITECT CHARLES W. JOHNSON 20944 STATE OF TEXAS
05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

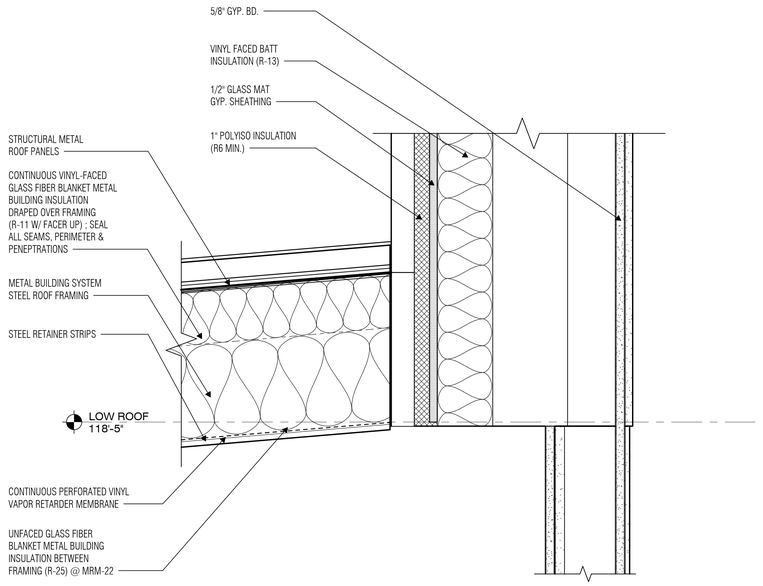
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	JGH / CLP

PROJECT NO.
25-0067.00

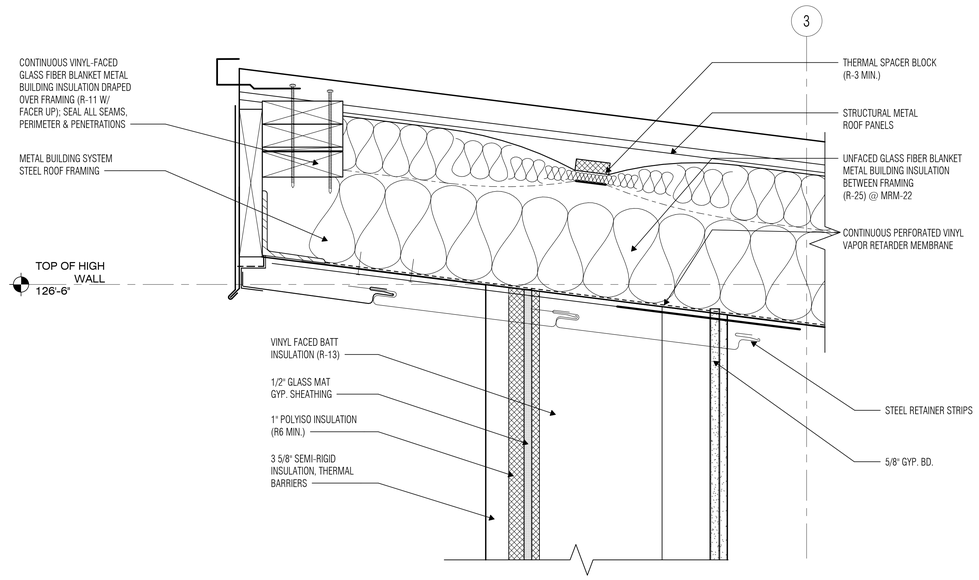
SHEET TITLE
ROOF DETAILS

SHEET NO.
A5.21

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1 ROOF DETAIL
SCALE: 3" = 1'-0"



2 ROOF DETAIL
SCALE: 3" = 1'-0"

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NEW OPPORTUNITY AWARENESS CENTER

REGISTERED ARCHITECT
JAMES W. JOHNSON
22544
STATE OF TEXAS
05/26/2026

ISSUED: May 26, 2026

REVISIONS

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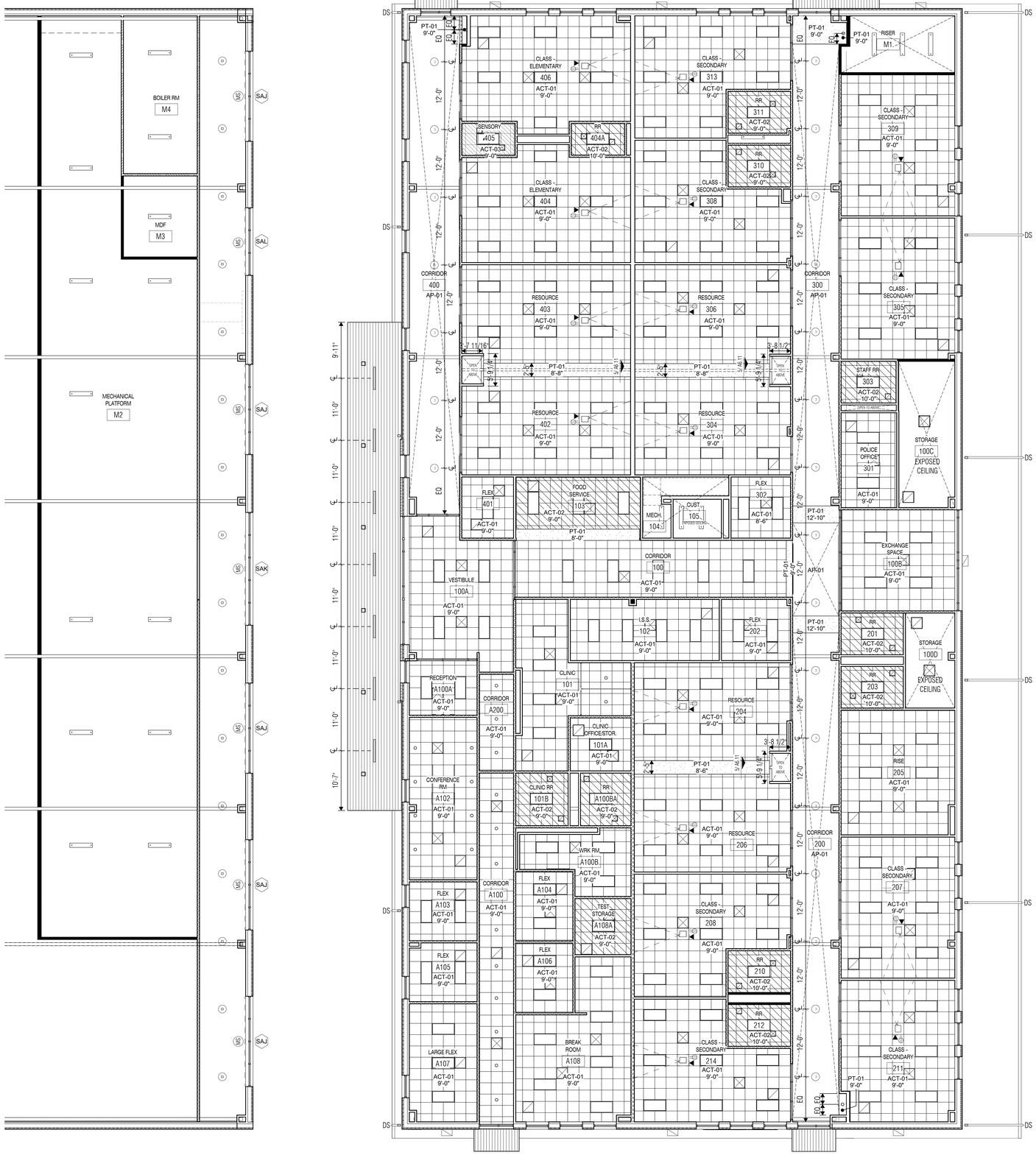
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	JGH / CLP

PROJECT NO.
25-0067.00

SHEET TITLE
ROOF DETAILS

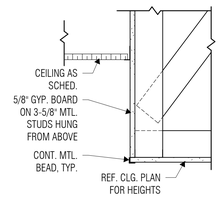
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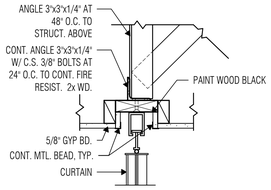


2 REFLECTED CEILING PLAN - MECHANICAL PLATFORM
SCALE: 1/8" = 1'-0"

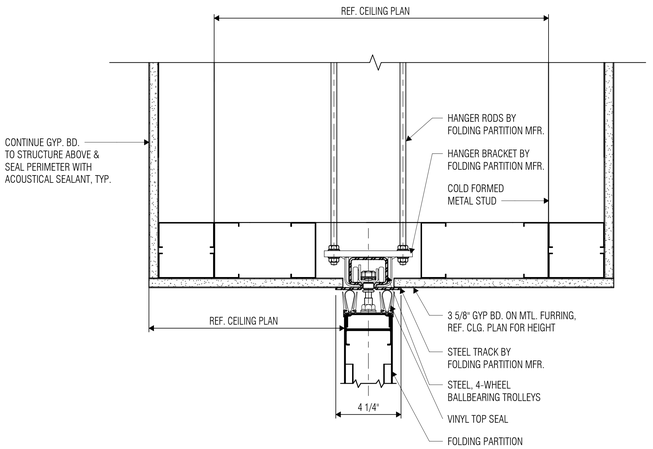
1 REFLECTED CEILING PLAN - LEVEL ONE
SCALE: 1/8" = 1'-0"



3 C508 - DETAIL AT FURR DOWN
SCALE: 1 1/2" = 1'-0"



4 C702 - DETAIL AT CURTAIN TRACK
SCALE: 1 1/2" = 1'-0"



5 SECTION AT OPERABLE PARTITON
SCALE: 3" = 1'-0"

REFLECTED CEILING PLAN NOTES

1. All ceiling heights shall be [9'0"] A.F.F. unless noted otherwise.
2. Refer to Detail 2/A2.21 for Typical Gypsum Board Ceiling Control Joint Detail.
3. Refer to Detail 2/A2.21 for Typical Plaster Ceiling Control Joint Detail.
4. Provide vented reveals at perimeter of all non-insulated exterior plaster soffits. Provide venting strips or perforated panels at perimeter of all non-insulated metal panel soffits. Venting at non-insulated soffits shall be provided whether specifically indicated on the drawings or not.
5. Provide partition to deck (PTD) at walls surrounding spaces with exposed structure. Refer to Reflected Ceiling Plan Legend for PTD requirements.
6. Provide hold-down clips for all acoustic lay-in ceiling panels at vestibules, at sloped ceilings, at fire-rated ceilings, and within 6 feet of exterior doors without vestibules.
7. At ceiling furring details, the suspended assemblies, bracing, blocking, etc. shown on the details are for schematic representation only. Provide stable, secure and permanent assemblies at these locations in accordance with recommended light-gage steel framing installation practices.
8. At partitions that do not extend to deck above, extend partition 4" minimum above highest adjacent ceiling and brace per Floor Plan Legend and Floor Plan Notes.

REFLECTED CEILING PLAN LEGEND

HVAC SUPPLY AND RETURN GRILLES Shown for location purposes only. Refer to Mechanical Drawings.

LIGHT FIXTURES. Refer to Electrical Drawings.

Smoke Partition

Acoustical/ Sound Partition

Non-rated Partition to Deck

SMOKE PARTITION. Extend partition to deck above and seal with sealant as required to resist the passage of smoke. Paint stenciled label on partitions above ceiling at 15'-0" o.c. as follows: 'SMOKE BARRIER - PROTECT ALL OPENINGS'. Seal all joints and penetrations. Brace partitions per Floor Plan General Notes.

ACOUSTICAL/SOUND PARTITION. Extend partition to deck above and seal with acoustical sealant. Seal all joints and penetrations with acoustical sealant. Brace partitions per Floor Plan General Notes.

NON-RATED PARTITION TO DECK. Extend partition to deck above. Brace partitions per Floor Plan General Notes.

CEILING SCHEDULE

TYPE MARK	TYPE
ACT-01	2' x 2' ACT System
ACT-02	2' x 2' Aluminum ACT Vinyl Coated
ACT-03	2' x 2' ACT System - Batt Insulation Above
AP-01	Acoustical Fiber Wood Panel
PT-01	Gypsum Board Ceiling

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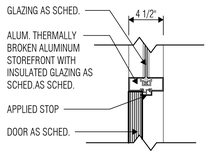
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	AHT/JGH

PROJECT NO.
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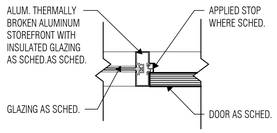
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REFLECTED CEILING PLAN

SHEET NO.
A6.11

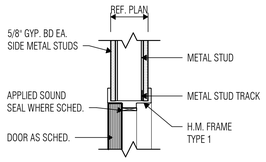
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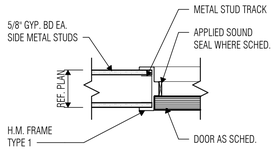
1 INT. ALUM HEAD AT GLAZING
SCALE: 1 1/2" = 1'-0"



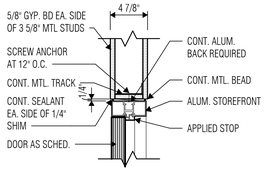
2 INT. ALUM JAMB AT GLAZING
SCALE: 1 1/2" = 1'-0"



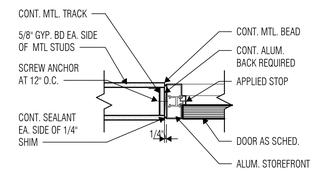
3 INT. HM DOOR HEAD AT STUD
SCALE: 1 1/2" = 1'-0"



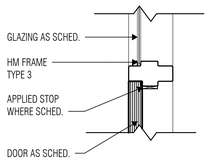
4 INT. HM DOOR JAMB AT STUD
SCALE: 1 1/2" = 1'-0"



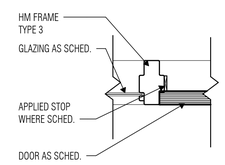
5 INT. ALUM HEAD AT STUD
SCALE: 1 1/2" = 1'-0"



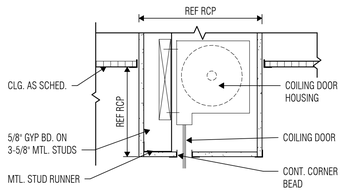
6 INT. ALUM JAMB AT STUD
SCALE: 1 1/2" = 1'-0"



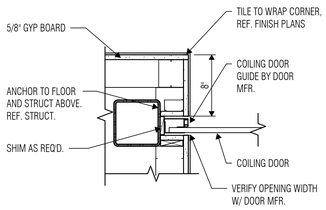
7 INT. HM DOOR HEAD AT GLAZING
SCALE: 1 1/2" = 1'-0"



8 INT. HM DOOR JAMB AT GLAZING
SCALE: 1 1/2" = 1'-0"



12 HEAD DETAIL AT GRILLE
SCALE: 1 1/2" = 1'-0"



13 JAMB DETAIL AT GRILLE
SCALE: 1 1/2" = 1'-0"

DOOR SCHEDULE

DOOR	DOOR TYPE	PANEL MATERIAL	FRAME TYPE	DOOR OPENING WIDTH	DOOR OPENING HEIGHT	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	FIRE RATING	HARDWARE SET	KEYED NOTES
100A	SFD-S	3	Aluminum	6'-0"	7'-0"	1	2			CV710AM	2,4,5
100AA	SFD-S	3	Aluminum	6'-0"	7'-0"					C714ACM	1,2,4,5,7
100AC	C	1	H.M.	3'-0"	7'-0"	3	4			C201	4,5
100BA	SFD-S	3	Aluminum	6'-0"	7'-0"					C714ACM	1,4,5,7
100BB	SFD-S	3	Aluminum	6'-0"	7'-0"					E714ACM	1,2,5,7
100BC	SFD-S	3	Aluminum	6'-0"	7'-0"	1	2			CV710AM	4,5
100BD	SFD-S	3	Aluminum	6'-0"	7'-0"	1	2			EV710AM	2,5
100C	A	1	H.M.	3'-0"	7'-0"	3	4			201	
100D	A	1	H.M.	3'-0"	7'-0"	3	4			201	
101	C	1	H.M.	3'-0"	7'-0"	3	4				
101A	G	3	H.M.	3'-0"	7'-0"	3	4,8			103	
101B	A	1	H.M.	3'-0"	7'-0"	3	4			341	
102	C	1	H.M.	3'-0"	7'-0"	3	4			553	
103	L	5		21'-6"	8'-0"					001KS1	
104	A	1	H.M.	3'-0"	7'-0"	3	4		45 MIN	201	
105	A	1	H.M.	3'-0"	7'-0"	3	4			201H	
200	SFD-Q	3	Aluminum	3'-0 3/16"	7'-0"					C715AC	4,5,7
201	A	1	H.M.	3'-0"	7'-0"	3	4			341	
202	C	1	H.M.	3'-0"	7'-0"	3	4			103	
203	A	1	H.M.	3'-0"	7'-0"	3	4			341	
204	C	1	H.M.	3'-0"	7'-0"	3	4			553	
205	C	1	H.M.	3'-0"	7'-0"	3	4			553	
206	C	1	H.M.	3'-0"	7'-0"	3	4			553	
206A	P	4		27'-4"						003FL2	8
207	C	1	H.M.	3'-0"	7'-0"	3	4			553	
208	C	1	H.M.	3'-0"	7'-0"	3	4			553	
210	A	1	H.M.	3'-0"	7'-0"	3	4			341	
211	C	1	H.M.	3'-0"	7'-0"	3	4			553	
212	A	1	H.M.	3'-0"	7'-0"	3	4			341	
214	C	1	H.M.	3'-0"	7'-0"	3	4			553	
262	A	1	H.M.	3'-0"	7'-0"	3	4			341-STF	
300	SFD-Q	3	Aluminum	3'-0"	7'-0"					C715AC	4,5,7
301	C	3	H.M.	3'-0"	7'-0"	3	4,8			101A	
302	C	1	H.M.	3'-0"	7'-0"	3	4			101	
304	C	1	H.M.	3'-0"	7'-0"	7	4			553	
304A	P	4		27'-4"						003FL2	8
305	C	1	H.M.	3'-0"	7'-0"	7	4			553	
306	C	1	H.M.	3'-0"	7'-0"	3	4			553	
308	C	1	H.M.	3'-0"	7'-0"	3	4			553	
309	C	1	H.M.	3'-0"	7'-0"	7	4			553	
310	A	1	H.M.	3'-0"	7'-0"	3	4			341	
311	A	1	H.M.	3'-0"	7'-0"	3	4			341	
313	C	1	H.M.	3'-0"	7'-0"	3	4			553	
400A	SFD-Q	3	Aluminum	3'-1"	7'-0"	7	8			CR711A	4,5
400B	SFD-Q	3	Aluminum	3'-0"	7'-0"					C715AC	4,5,7
401	C	1	H.M.	3'-0"	7'-0"	3	4			101	
402	C	1	H.M.	3'-0"	7'-0"	3	4			553	
402A	P	4		29'-10"						003FL2	8
403	C	1	H.M.	3'-0"	7'-0"	3	4			553	
404	C	1	H.M.	3'-0"	7'-0"	3	4			553	
404A	A	1	H.M.	3'-0"	7'-0"	3	4			343S	
405	C	1	H.M.	3'-0"	7'-0"	3	4			403	
406	C	1	H.M.	3'-0"	7'-0"	3	4			553	
406A	A	1	H.M.	3'-0"	7'-0"	3	4			343S	
A100	SFD-Q	3	Aluminum	3'-1 5/8"	7'-0"					C715AC	4,5,7
A100A	C	1	H.M.	3'-0"	7'-0"	3	4			101	
A100B	C	1	H.M.	3'-0"	7'-0"	3	4			C711	4,5
A100BA	A	1	H.M.	3'-0"	7'-0"	3	4			341-STF	
A102A	C	1	H.M.	3'-0"	7'-0"	3	4			103	
A102B	C	1	H.M.	3'-0"	7'-0"	3	4			103	
A103	C	1	H.M.	3'-0"	7'-0"	3	4			103	
A104	C	1	H.M.	3'-0"	7'-0"	3	4			103	4
A105	C	1	H.M.	3'-0"	7'-0"	3	4			103	
A105A	C	1	H.M.	3'-0"	7'-0"	3	4			103	
A106	C	1	H.M.	3'-0"	7'-0"	3	4			103	
A107	C	1	H.M.	3'-0"	7'-0"	3	4			103	
A108	C	3	H.M.	3'-0"	7'-0"	3	4,8			101	
A108A	A	1	H.M.	3'-0"	7'-0"	3	4			203	
M1	A	2	H.M.	3'-0"	7'-0"	3	4			205	5
M3	A	2	H.M.	3'-0"	7'-0"	3	4			201	
M4	B	2	H.M.	6'-0"	7'-0"	3	4		45 MIN	710MEL-SM	

DOOR SCHEDULE NOTES

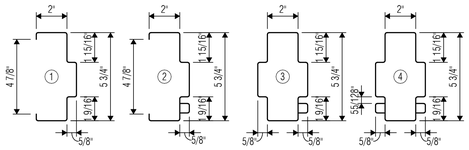
1. At Doors marked 'SMK', provide smoke seals at frame and door bottom to resist the passage of smoke. Provide threshold if required by code or if necessary for proper function of door bottom seal.
2. At Doors marked 'SND', frames to be stuffed with mineral fiber insulation prior to installation and the perimeter of the frame sealed to the surrounding wall with non-hardening acoustical sealant on both sides of the partition. Threshold, where used, shall be sealed to the floor with acoustical sealant.
3. At Doors without a Frame Type designation, the door frame is part of a Glazing System, Sound-Control Door Assembly, Tornado-Resistant Door Assembly, etc.
4. At Doors with a Frame Type designation "AL", the door frame is an interior aluminum frame that is not part of a glazing system
5. At Doors with a Frame Type designation "N/A", there is no door frame required (e.g. all-glass doors, gates, etc.).
6. At Doors with a Frame Type designation "REF DET", refer to the referenced Head and Jamb detail for frame information.
7. At Doors with a Door Type or Frame Type designation "EX", the door or door frame is existing to remain.
8. Refer to Hardware Schedule for additional information regarding hardware.
9. Vision panels at non-rated interior doors shall be 1/4" clear tempered glass (CT4) U.N.O. Vision panels at interior fire-rated glass (CC4) U.N.O. Vision panels at exterior doors shall be 1" tinted tempered insulating glass (TT1) U.N.O.
10. Refer to Glazing System Elevation Sheets for Glass Types.

DOOR KEYED NOTES

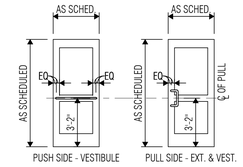
KEY NUMBER	KEYED NOTES
1	Double Egress Doors
2	Keyed Removable Mullion
4	Access Control / Card Reader
5	Door Position Switch
7	Weatherstripping All Sides
8	Folding Partition
9	Chain Link Gate with Maintenance Lock

PANEL MATERIAL NOTES

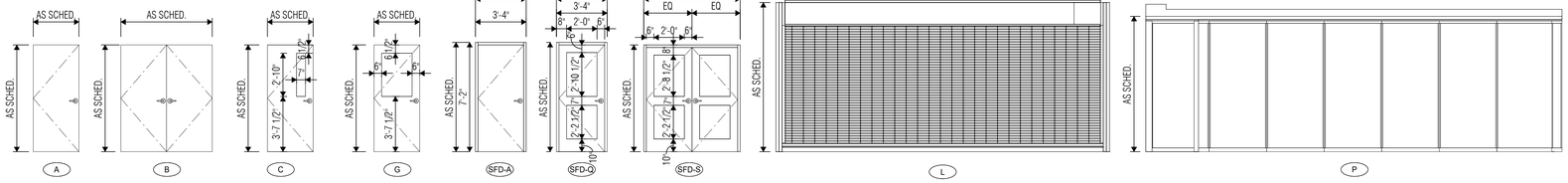
TYPE MARK	PANEL MATERIAL
1	Plastic Laminate
2	Painted Hollow Metal
3	Wide Stile Storefront Panel
4	Dry Erase Marker Surface Operable Partition
5	Motorized Non Insulated Stainless Steel



9 HOLLOW METAL FRAME TYPES
SCALE: 3" = 1'-0"



10 PUSH/ PULL HEIGHTS
SCALE: 1/4" = 1'-0"



11 DOOR TYPES
SCALE: 1/4" = 1'-0"

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ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

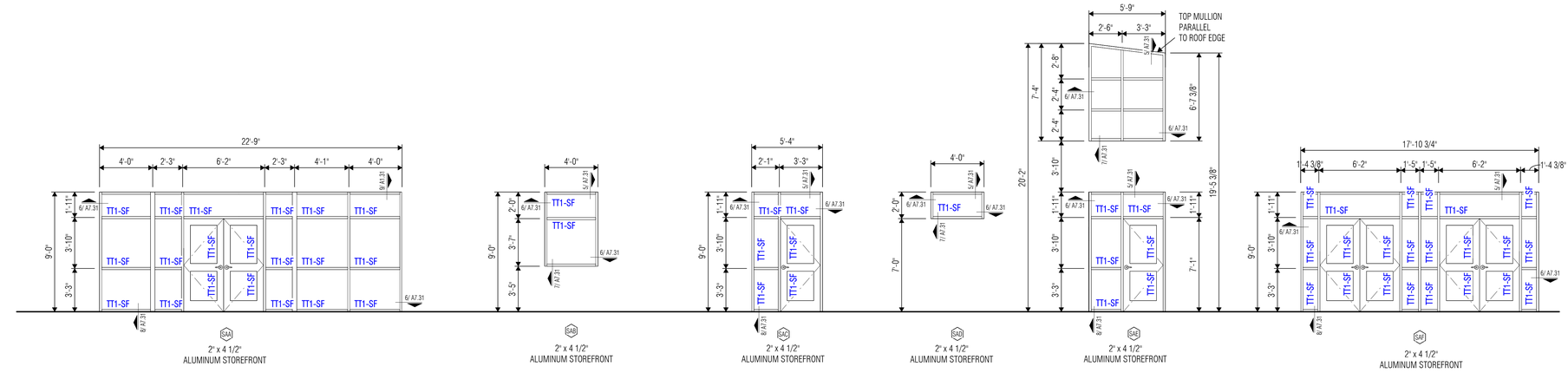
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	AHT/MCA

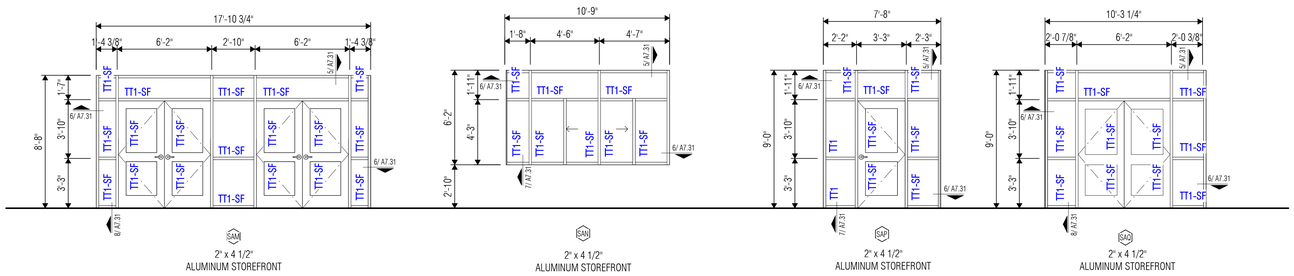
PROJECT NO.
25-0067.00

SHEET TITLE
DOOR SCHEDULE, DOOR TYPE ELEVATIONS, & DETAILS

SHEET NO.
A7.01

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GLAZING SYSTEM NOTES

1. All exterior glazing to be TT1 U.N.O.
2. All interior glazing to be CT4 U.N.O.
3. Overall dimensions of glazing system elevations reflect rough opening dimensions, inclusive of perimeter joints.
4. Provide 3/16" thick heavy wall framing members at all door frames in exterior and interior aluminum Storefront systems.
5. Provide 3/16" thick heavy wall door adapters at all door frame members in exterior and interior aluminum Curtain Wall systems.
6. Door opening dimensions in Curtain Wall systems reflect 1" door adapters at jamb conditions, and 1-3/4" door adapters at head conditions. Adjust dimensions between mullions at door openings in curtain wall systems as required for actual size of door adapters provided. Door sizes as identified in Door Schedule shall be maintained.
7. Refer to 10/A7.01 for Typical Push/Pull Mounting Heights Detail for aluminum/glass doors.

GLAZING SYSTEM LEGEND

STOREFRONT FRAMING WITH 3/16" THICK 'HEAVY WALL' MATERIAL. TYPICAL AT ALL DOOR FRAME MEMBERS IN STOREFRONT GLAZING SYSTEMS.

CURTAIN WALL FRAMING WITH STEEL REINFORCING PROVIDED BY MANUFACTURER.

GLAZING TYPE LEGEND

Material: Description	Material: Name
CT4	CLEAR, TEMPERED, 1/4" THICK GLASS
TT1	TINTED, TEMPERED, 1" THICK INSULATING GLASS
TT1-SF	TINTED, TEMPERED, 1" THICK INSULATING GLASS, SECURITY FILM, FIELD APPLIED TO GLASS

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Katy, TX

NEW OPPORTUNITY AWARENESS CENTER

REGISTERED ARCHITECT
CHARLES W. JOHNSON
22644
STATE OF TEXAS

05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	MCA

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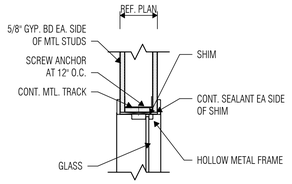
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GLAZING ASSEMBLY ELEVATIONS

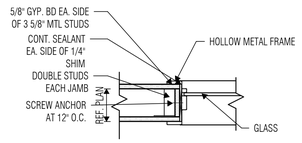
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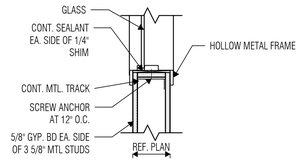
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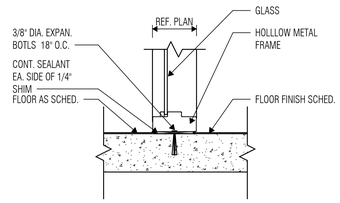
1 HM HEAD AT STUD
SCALE: 1 1/2" = 1'-0"



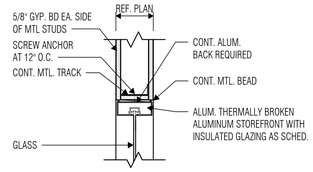
2 HM JAMB AT STUD
SCALE: 1 1/2" = 1'-0"



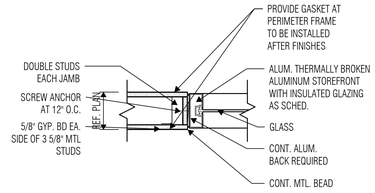
3 HM SILL AT STUD
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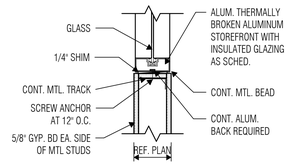
4 HM SILL AT FLOOR
SCALE: 1 1/2" = 1'-0"



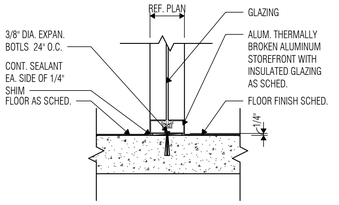
5 SF HEAD AT STUD
SCALE: 1 1/2" = 1'-0"



6 SF JAMB AT STUD
SCALE: 1 1/2" = 1'-0"



7 SF SILL AT STUD
SCALE: 1 1/2" = 1'-0"



8 SF SILL AT FLOOR
SCALE: 1 1/2" = 1'-0"

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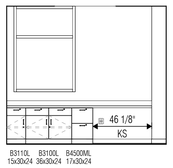
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GLAZING ASSEMBLY DETAILS

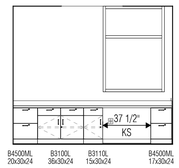
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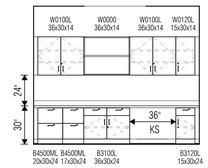
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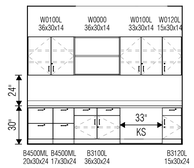
1 FLEX 106 - WEST
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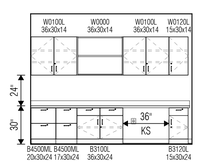
2 FLEX 104 - WEST
SCALE: 1/4" = 1'-0"



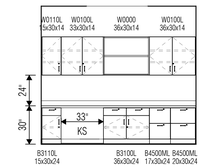
3 FLEX 202 - WEST
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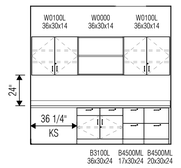
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SCALE: 1/4" = 1'-0"



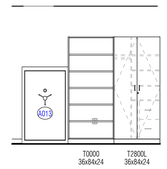
5 FLEX 302 - NORTH
SCALE: 1/4" = 1'-0"



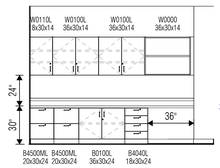
6 FLEX 107 - SOUTH
SCALE: 1/4" = 1'-0"



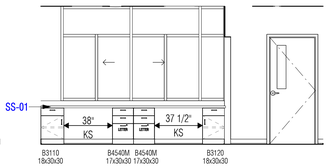
7 FLEX 401 - EAST1
SCALE: 1/4" = 1'-0"



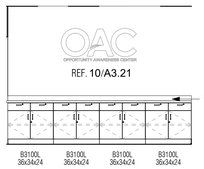
8 POLICE 301 - NORTH
SCALE: 1/4" = 1'-0"



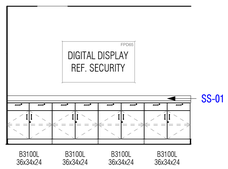
9 LARGE FLEX - SOUTH
SCALE: 1/4" = 1'-0"



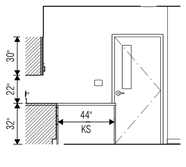
10 RECEPTION - NORTH
SCALE: 1/4" = 1'-0"



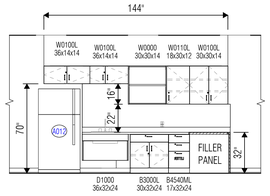
11 RECEPTION - SOUTH
SCALE: 1/4" = 1'-0"



12 CONFERENCE - SOUTH
SCALE: 1/4" = 1'-0"



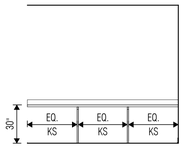
13 CLINIC - NORTH
SCALE: 1/4" = 1'-0"



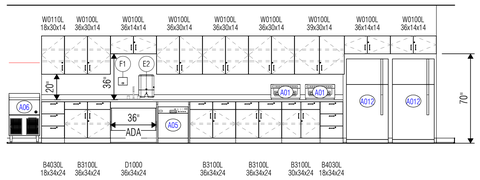
14 CLINC - WEST
SCALE: 1/4" = 1'-0"

C.S.I. Catalog Casework Number
X0000MLV
WWHHxD
M = Modified from Standard Catalog Selection
L = Locked Cabinet
V = Light Valance Panel (C.S.I. #R9600-03)
Casework Size

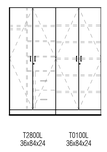
Note:
1. The height indicated at base cabinets includes the countertop.



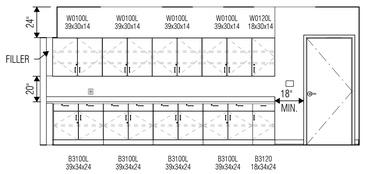
15 BREAK ROOM - WEST
SCALE: 1/4" = 1'-0"



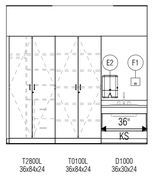
16 BREAK ROOM - EAST
SCALE: 1/4" = 1'-0"



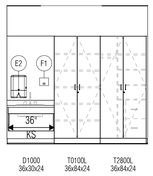
17 CLASSROOM TYP.
SCALE: 1/4" = 1'-0"



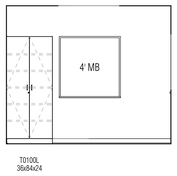
18 WORK ROOM - NORTH
SCALE: 1/4" = 1'-0"



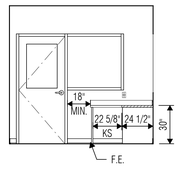
19 ELEM. CLASS 404 - NORTH
SCALE: 1/4" = 1'-0"



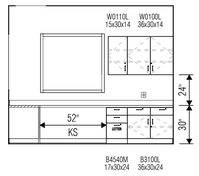
20 ELEM. CLASS 406 - SOUTH
SCALE: 1/4" = 1'-0"



21 CLINIC OFFICE - SOUTH
SCALE: 1/4" = 1'-0"



22 CLINIC OFFICE - WEST
SCALE: 1/4" = 1'-0"



23 CLINIC OFICE - NORTH
SCALE: 1/4" = 1'-0"

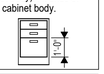
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Katy ISD
Katy, TX

NEW OPPORTUNITY AWARENESS CENTER

CASEWORK NOTES

1. Casework shall meet criteria set forth in Americans with Disabilities Act and Texas Accessibility Standards.
2. All casework model numbers are based on Case Systems, Inc. Refer to casework elevations for height and width of each unit.
3. Coordinate locations of electrical and/or plumbing within casework and millwork. Notify Architect of any conflicts prior to installation.
4. Coordinate all column locations prior to installation of casework.
5. Refer to Floor Plan Notes for blocking requirements at stud partitions.
6. All adjustable shelves longer than 2'-3", and shelves of any length at open shelving units, shall be 1" thick..
7. Provide finished surface on all exposed surfaces.
8. Plastic Laminate on all casework shall be PL-01 U.N.O., Countertops to be PL-02, U.N.O.
9. Provide fillers and finished end panels (F.E.) as required. Refer to Detail 1/A8.21 for filler requirements.
10. Provide locks on all doors and drawers as indicated.
11. All counters shall have 4" high splashes, U.N.O.
12. At countertop locations, no joints in plastic laminate should occur over knee spaces, or within 24 inches of sinks and lavatories.
13. Casework cabinet doors and drawers shall be flush overlay.
14. Base cabinets should not extend to floor. Sub-base shall be separate and recessed 1/2" at sides of cabinet to receive rubber base.
15. Provide 1-1/2" thick divider panel between knee spaces and adjacent spaces (e.g. dishwasher openings, other knee spaces, etc.).
16. At front of casework, countertops shall extend 1/2" over base cabinet door/drawer (approximately 1-1/2" over base cabinet body). At ends of casework, countertops shall extend 1/2" over base cabinet body. Refer to Detail 1/A8.21
17. Provide custom height at all file-size drawers to be a minimum of 1'-0" deep. Provide locks at all file-size drawers.



KEY NOTE LEGEND

Key Value	Key Note Text
A01	Microwave, CFCI
A05	Dishwasher, CFCI
A06	Ice Machine, CFCI
A012	Refrigerator w/ Ice Maker + Lock, CFCI
A013	Gun Safe, OFOI

REGISTERED ARCHITECT
CHARLES W. JOHNSON
20944
STATE OF TEXAS
05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

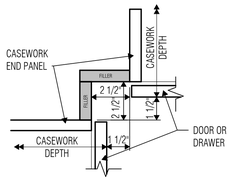
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	JGH

PROJECT NO.
25-0067.00

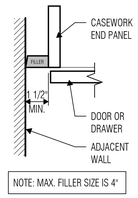
SHEET TITLE
CASEWORK ELEVATIONS

SHEET NO.
A8.01

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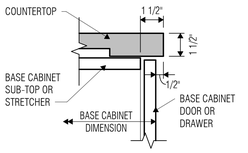


INSIDE CORNER FILLER
AT ADJACENT CABINETS

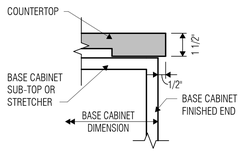


NOTE: MAX. FILLER SIZE IS 4"

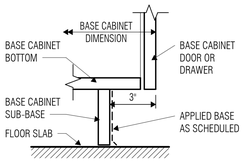
FILLER AT ADJACENT WALL



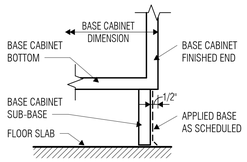
COUNTERTOP
FRONT OVERHANG



COUNTERTOP
END OVERHANG



BASE CABINET TOE KICK
AT FRONT

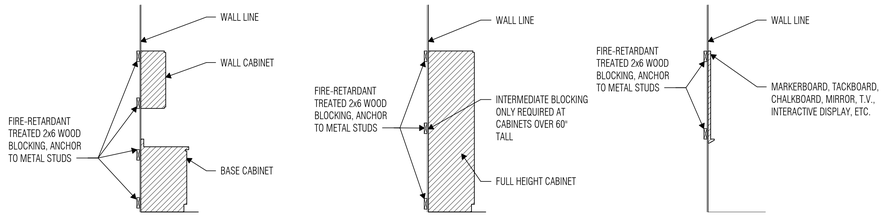


BASE CABINET SUB-BASE
AT FINISHED END

1 TYPICAL CASEWORK DETAILS

SCALE: 3" = 1'-0"

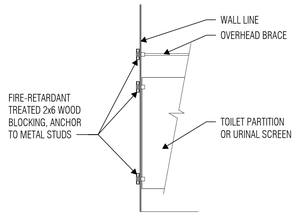
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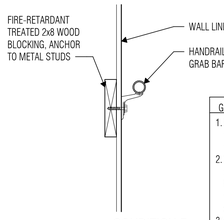
CONDITION A

CONDITION B

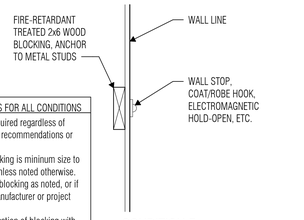
CONDITION C



CONDITION D



CONDITION E
SCALE: 1 1/2" = 1'-0"



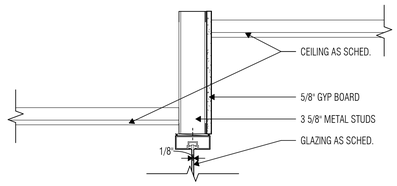
CONDITION F
SCALE: 1 1/2" = 1'-0"

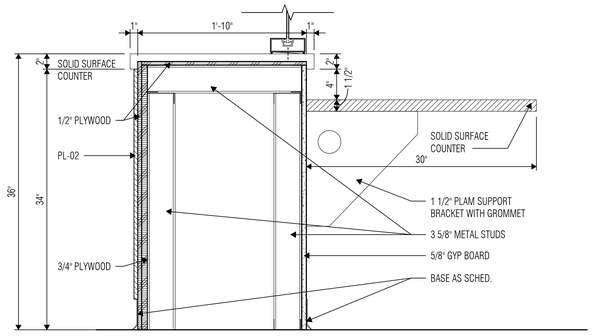
GENERAL NOTES FOR ALL CONDITIONS

1. Blocking is required regardless of manufacturer's recommendations or requirements.
2. 2x6 wood blocking is mininum size to be provided, unless noted otherwise. Provide larger blocking as noted, or if required by manufacturer or project conditions.
3. Verify exact location of blocking with manufacturer's installation requirements.

2 TYPICAL WOOD BLOCKING DETAILS

SCALE: 3/8" = 1'-0"





3 RECEPTION DESK - SOLID SURFACE WATERFALL

SCALE: 1 1/2" = 1'-0"

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NEW OPPORTUNITY AWARENESS CENTER

CHARLES W. JOHNSON
REGISTERED ARCHITECT
22944
STATE OF TEXAS

05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	JGH

PROJECT NO.

25-0067.00

SHEET TITLE

CASEWORK SECTIONS
AND DETAILS

SHEET NO.

A8.21

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MATERIAL FINISH SCHEDULE

NOTE: ALL MATERIALS, PRODUCTS, SIZES, COLORS AND PATTERNS ARE THE BASIS OF DESIGN. REFERENCE PROJECT MANUAL FOR ADDITIONAL APPROVED MANUFACTURERS MEETING THE DESIGN INTENT. SUBSTITUTIONS WILL BE CONSIDERED WHEN SUBMITTED IN COMPLIANCE WITH SECTION 01 62 00 – PRODUCT OPTIONS.

MATERIAL: MARK	DESCRIPTION	SPEC SECTION	MANUFACTURER INFO: MANUFACTURER	SERIES/STYLE	COLOR/FINISH	SIZE	COMMENTS
CEILING FINISH							
ACT-01	Acoustic Ceiling Tile (24X24)	09 51 00					
ACT-02	Acoustic Ceiling Tile - Vinyl Coated	09 51 00					
ACT-03	Acoustic Ceiling Tile (24X24) - Batt Insulation Above	09 51 00					
AP-01	Acoustical Wood Fiber Panels	09 84 13	Armstrong	Tectum Direct Attach High NRC	Match PT-01	12"x48"x2"	D-20 - Hat channels to run perpendicular to roof purlins. NRC 0.70
ES-01	Exposed to Structure Paint	09 91 00	Sherwin Williams	--	SW 7551 Greek Villa		All exposed structure
MC-01	Prefrabricated Walkway Cover Soffit	10 73 26			Clear Anodized		
EXTERIOR FINISH							
CMU-01	CMU - Burnished	04 20 00	Best Block	Burnished	704 - White Terrazo	16" x 24" x 4	Running Bond
CMU-02	CMU - Burnished Accent	04 20 00	Best Block	Burnished	704 - White Terrazo	4" x 24" x 4	
CS-01	Cast Stone Sill	04 72 00	Advanced Architectural Stone	Smooth	Classic White		Random Ashlar pattern size 4/6/8
MRP-01	Metal Roof Panel	07 41 20	Berridge	Double-Lock / Zee-Lock	Cityscape		
MWP-01	Metal Wall Panel	07 42 13	Berridge	HR-16	Zinc-Cote		Horizontal Orientation
FLOOR FINISH							
CO-01	Concrete - Polished	03 35 43	As Specified	--	--	--	
CO-02	Concrete - Sealed	03 30 00	As Specified	--	--	--	
CPT-01	Carpet - Field	09 68 13	Tarkett	Create Balance 11770	Resourceful 32813	Powerbond Roll	
CPT-02	Carpet - Walk-Off	09 68 13	Tarkett	Assertive Stria 04839	Forge 26213	Powerbond Roll	Install pattern to run Plan East / West
LVT-01	Luxury Vinyl Tile - Field	09 65 00	Shaw Contract	Solitude	French Grey 48599	6" x 48"	Install planks to run Plan East / West
PF-01	Poured Floor - Fluid Applied	09 67 23	Sherwin Williams	Resuflor Deco Quartz	Winter Sky BC23	--	With Integral Cove Base
MILLWORK & ARCHITECTURAL FINISHES							
PL-01	Plastic Laminate - Doors & Cabinets	12 32 16	Arborite	A3 - Vertical Laminate	Essential Artisan Walnut W2011 AW	--	Vertical Grain
PL-02	Plastic Laminate - Countertops	12 32 16	Arborite	A4 - Horizontal Laminate	Chambray Gris P399-CA	--	
PT-03	Paint - H.M Doors & Frames	09 91 00	Sherwin Williams	--	SW 7064 Passive	--	
SS-01	Solid Surface - Countertops	12 32 16	LX Hauseys	Solid Surface	Glitz GP313	--	To be used at Reception & Conference Room
T-07	Tile - Serving Line Face	09 30 00	Stone Source	Studio Elements Artisan	Ink Hexagon	6" x 7"	Ref. Food Service
WALL FINISH							
AWP-01	Acoustic Wall Panel - Blue	09 84 13	Acoufelt	Fracture Two-Tone; Raindrop	Backing: Almond; Face: Denim	14mm w/ 50mm air gap	Run Pattern Horizontal ; NRC 0.75
FRP	Fiberglass Reinforced Panels	09 77 00	Marlite	Standard FRP	P151 Light Gray	--	To be used at janitor closets.
PT-01	Paint - Field	09 91 00	Sherwin Williams	--	SW 7551 Greek Villa	--	
PT-02	Paint - Blue Accent	09 91 00	Sherwin Williams	--	SW 6229 Tempe Star	--	
RB-01	Rubber Base	09 65 44	Johnsonite	Traditional Vinyl, Type TV	Pebble 32	4"	
T-01	Tile - Field	09 30 00	Stone Source	Sassuolo Aggregate Stone	White; Natural	12" x 24"	Ref. WTP-01
T-02	Tile - Accent	09 30 00	Stone Source	Palermo Terra Ferma	Berry; Natural	12" x 24"	Ref. WTP-01; WTP-02
T-03	Tile - Drinking Fountain	09 30 00	Stone Source	Palma Craft	Marine; Satin	2.5" x 15"	Ref. WTP-03
T-04	Tile - Backsplash	09 30 00	Stone Source	Sienna Stone	Bianco; Glossy	2.5" x 10"	Installation: Horizontal Stack Bond
T-05	Tile - Serving Line Accent 01	09 30 00	Stone Source	Fiorano USA City Lights	Pure; Glossy	6" x 24"	Ref. WTP-05
T-06	Tile - Serving Line Accent 02	09 30 00	Stone Source	Fionrano USA City Lights	Essential Gray; Glossy	6" x 24"	Ref. WTP-05
VWC-01	Vinyl Wallcovering - Field	09 72 16	Koroseal	Axis II	Urban White 1920-08	--	
VWC-02	Vinyl Wallcovering - Classroom Accent	09 72 16	Koroseal	Axis II	Ancient Lake 1920-09	--	
VWC-03	Vinyl Wallcovering - Admin Accent	09 72 16	Koroseal	Vive	Electric Blue SG14-09	--	

FINISH ACCESSORY, FURNITURE AND EQUIPMENT SCHEDULE

NOTE: ALL MATERIALS, PRODUCTS, SIZES, COLORS AND PATTERNS ARE THE BASIS OF DESIGN. REFERENCE PROJECT MANUAL FOR ADDITIONAL APPROVED MANUFACTURERS MEETING THE DESIGN INTENT. SUBSTITUTIONS WILL BE CONSIDERED WHEN SUBMITTED IN COMPLIANCE WITH SECTION 01 62 00 – PRODUCT OPTIONS.

MARK	DESCRIPTION	SPEC SECTION	MANUFACTURER INFO: MANUFACTURER	SERIES/STYLE	COLOR/FINISH	SIZE	COMMENTS
FLOOR FINISH ACCESSORY							
FFA-01	Floor Transition	09 68 00	Schluter	Schiene	Satin Anodized Aluminum		
FFA-02	Floor Transition	09 68 00	Schluter	Reno-U	Satin Anodized Aluminum		
FFA-03	Floor Transition	09 68 00	Tarkett Johnsonite	Slim Line Transition - EG-XX-J	55 Silver Grey WG		
SPECIALTY EQUIPMENT							
ATH	Athletic Equipment - Wall Pads	11 66 00	PSS Performance	Wall Pads	Grey	4'-0" x 8'-0"	To be used at sensory room
HB	Horizontal Blinds	12 21 13	SWF Contract	Mini Blinds	Silver 737	1"	
ID	Identifying Devices	10 14 00	STGS	Wilsonart; Standard Laminate	BLUE TBD		
LK-01	Lockers - Metal	10 51 13	Penco	As Specified	826 Slate Blue	-	Ref. 5/A2.21
LK-02	Lockers - Metal	10 51 13	Penco	As Specified	826 Slate Blue	-	Ref. 5/A2.21
MB	Markerboard - Premanufactured	10 11 16	Claridge	LCS Porcelain Dry Erase Whiteboard	White	Clear Anodized Frames	
PC-01	Privacy Curtain	10 21 23	Construction Specialties	CSelect Fabric; Bark	Rain Clouds	-	
RS	Roller Shades	12 24 13	Mechoshade Systems	1500 Series	1519 Silver Birch	-	
TB	Tackboard	10 11 16	Claridge	Claridge Cork	1113 Steel Gray	Clear Anodized Frames	
TC	Toilet Compartment	10 21 13	ASI	Black Core Phenolic	Weathered Ash #9842	-	
WALL FINISH ACCESSORY							
CG-01	Corner Guard	10 26 13					
CR-01	Chair Rail	10 26 13	Construction Specialties	SCR-40	Smokey Elm #1351	4"	To be used at large conference
G-01	Grout - Color A	09 30 13	Mapei	--	5093 Warm Gray	--	To be used with T-01 & T-04
G-02	Grout - Color B	09 30 13	Mapei	--	5231 Deep Ocean	--	To be used with T-02, T-03, T-05, & T-06
WFA-01	Tile Edge/Corner Trim - Metal	09 30 00	Schluter	Quadec	Anodized Aluminum	--	Top & Exposed Edges; Refer to Interior Details
WFA-02	Tile Edge/Corner Trim - Metal	09 30 00	Schluter	Jolly	Anodized Aluminum	--	Bottom Edges at Recessed Wall Tile Patterns; Top & Sides

ROOM FINISH SCHEDULE

ROOM NAME	ROOM NUMBER	FLOOR	BASE	WALL	REMARKS
CORRIDOR	100	CO-01	RB-01	VWC-01/WTP-01	
VESTIBULE	100A	CPT-02	RB-01	VWC-01/PT-01/WTP-01	
EXCHANGE SPACE	100B	CPT-02	RB-01	VWC-01/PT-01/WTP-01	
STORAGE	100C	CO-02	RB-01	PT-01	
STORAGE	100D	CO-02	RB-01	PT-01	
CLINIC	101	PF-01	PF-01	VWC-01/T-04	REF. ACCESSORY SCHEDULE FOR PRIVACY CURTAINS
CLINIC OFFICE/STOR.	101A	PF-01	PF-01	WTP-03/WTP-04	REF. 3/A3.31 & 4/A3.31
CLINIC RR	101B	PF-01	PF-01	VWC-01	
I.S.S.	102	CO-01	RB-01	VWC-01	
FOOD SERVICE	103	CO-01	RB-01	T-05/T-06	REF. WTP-05
MECH.	104	CO-02	RB-01	PT-01	
CUST.	105	CO-02	RB-01	PT-01/FRP	
CORRIDOR	200	CO-01/CPT-02	RB-01	VWC-01/WTP-01/WTP-02	REF. INTERIOR ELEVATIONS FOR AWP-01 LAYOUT
RR	201	PF-01	PF-01	WTP-03/WTP-04	REF. 3/A3.31 & 4/A3.31
FLEX	202	CPT-01	RB-01	VWC-01/VWC-03	
RR	203	PF-01	PF-01	WTP-03/WTP-04	REF. 3/A3.31 & 4/A3.31
RESOURCE	204	CO-01	RB-01	VWC-01/VWC-02	
RISE	205	CO-01	RB-01	VWC-01/VWC-02/PT-01	
RESOURCE	206	CO-01	RB-01	VWC-01/VWC-02	
CLASS - SECONDARY	207	CO-01	RB-01	VWC-01/VWC-02/PT-01	
CLASS - SECONDARY	208	CO-01	RB-01	VWC-01/VWC-02	
RR	210	PF-01	PF-01	WTP-0/WTP-04	REF. 3/A3.31 & 4/A3.31
CLASS - SECONDARY	211	CO-01	RB-01	VWC-01/VWC-02/PT-01	
RR	212	PF-01	PF-01	WTP-0/WTP-04	REF. 3/A3.31 & 4/A3.31
CLASS - SECONDARY	214	CO-01	RB-01	VWC-01/VWC-02/PT-01	
CORRIDOR	300	CO-01/CPT-02	RB-01	VWC-01/WTP-01/WTP-02	REF. INTERIOR ELEVATIONS FOR AWP-01 LAYOUT
POLICE OFFICE	301	CO-01	RB-01	VWC-01/VWC-03	
FLEX	302	CPT-01	RB-01	VWC-01/VWC-03	
STAFF RR	303	PF-01	PF-01	WTP-03/WTP-04	REF. 3/A3.31 & 4/A3.31
RESOURCE	304	CO-01	RB-01	VWC-01/VWC-02	
CLASS - SECONDARY	305	CO-01	RB-01	VWC-01/VWC-02/PT-01	
RESOURCE	306	CO-01	RB-01	VWC-01/VWC-02	
CLASS - SECONDARY	308	CO-01	RB-01	VWC-01/VWC-02	
CLASS - SECONDARY	309	CO-01	RB-01	VWC-01/VWC-02/PT-01	
RR	310	PF-01	PF-01	WTP-03/WTP-04	REF. 3/A3.31 & 4/A3.31
RR	311	PF-01	PF-01	WTP-03/WTP-04	REF. 3/A3.31 & 4/A3.31
CLASS - SECONDARY	313	CO-01	RB-01	VWC-01/VWC-02/PT-01	
CORRIDOR	400	CO-01/CPT-02	RB-01	VWC-01/PT-01/WTP-01	REF. INTERIOR ELEVATIONS FOR AWP-01 LAYOUT
FLEX	401	CO-01	RB-01	VWC-01/VWC-03	
RESOURCE	402	CO-01	RB-01	VWC-01/VWC-02	
RESOURCE	403	CO-01	RB-01	VWC-01/VWC-02	
CLASS - ELEMENTARY	404	CO-01	RB-01	VWC-01/VWC-02/T-04	
RR	404A	PF-01	PF-01	WTP-03/WTP-04	REF. 3/A3.31 & 4/A3.31
SENSORY	405	LVT-01	CO-01	VWC-01/ATH	REF. ACCESSORY SCHEDULE FOR ATHLETIC WALL PADS
CLASS - ELEMENTARY	406	CO-01	RB-01	VWC-01/VWC-02/PT-01/T-04	
CORRIDOR	A100	CO-01/CPT-02	RB-01	VWC-01	
RECEPTION	A100A	CPT-01	RB-01	VWC-01/VWC-03/PT-01	
WRK RM	A100B	LVT-01	RB-01	VWC-01	
RR	A100BA	PF-01	PF-01	WTP-03/WTP-04	REF. 3/A3.31 & 4/A3.31
CONFERENCE RM	A102	CPT-01	RB-01	VWC-01/VWC-03/PT-01	
FLEX	A103	CPT-01	RB-01	VWC-01/PT-02	
FLEX	A104	CPT-01	RB-01	VWC-01/VWC-03	
FLEX	A105	CPT-01	RB-01	VWC-01/PT-02	
FLEX	A106	CPT-01	RB-01	VWC-01/VWC-03	
LARGE FLEX	A107	CPT-01	RB-01	VWC-01/PT-02	
BREAK ROOM	A108	LVT-01	RB-01	VWC-01/VWC-02/PT-01/T-04	
TEST STORAGE	A108A	CO-02	RB-01	VWC-01	
CORRIDOR	A200	CO-01	RB-01	VWC-01	
RISER	M1	CO-02	RB-01	PT-01	
MECHANICAL PLATFORM	M2	CO-02	RB-01	PT-01	
MDF	M3	CO-02	RB-01	PT-01	
BOILER RM	M4	CO-02	RB-01	PT-01	

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05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No. | Revision Date

Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	HEF/LY

PROJECT NO.

25-0067.00

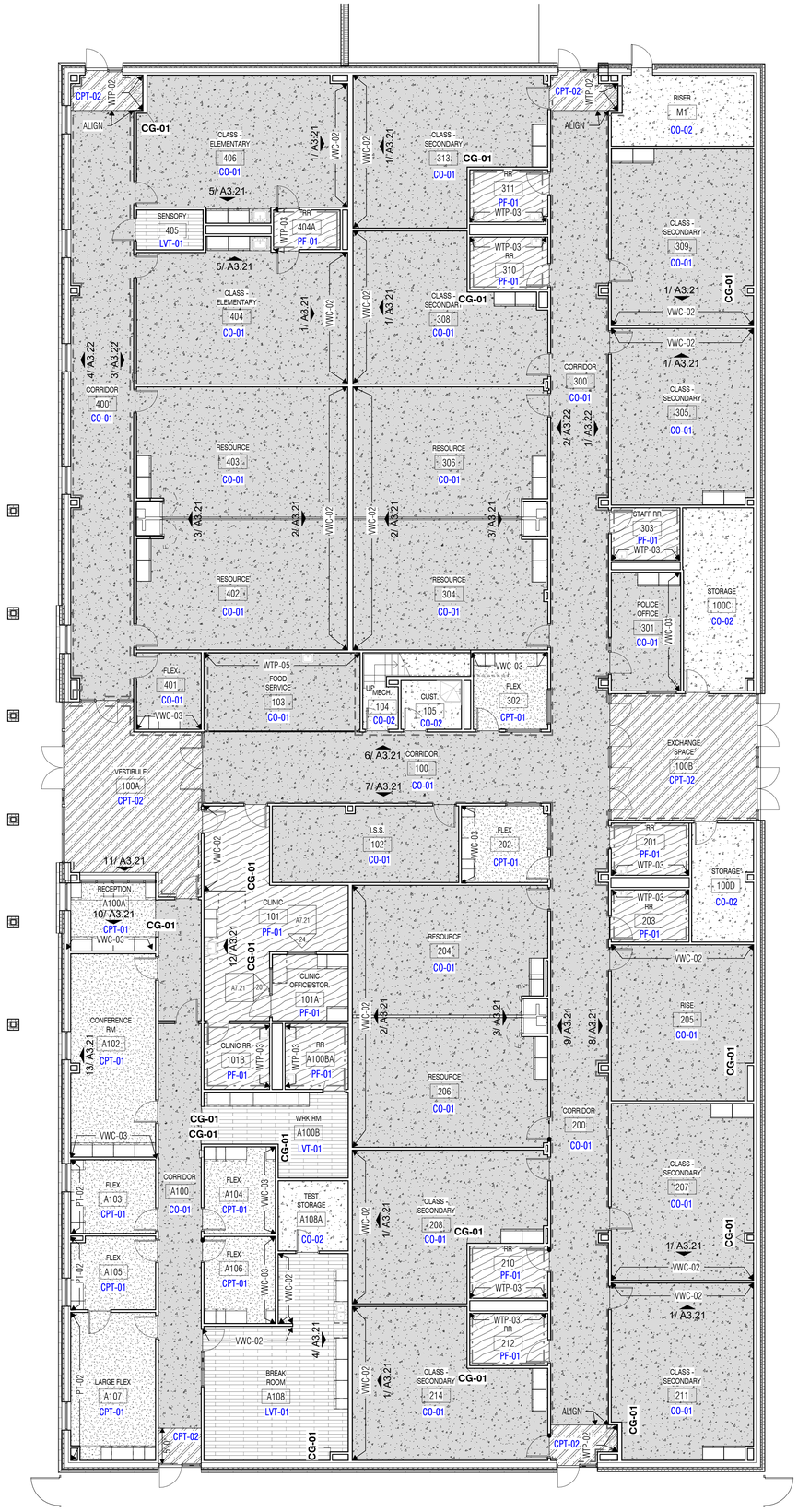
SHEET TITLE

MATERIAL FINISH SCHEDULES

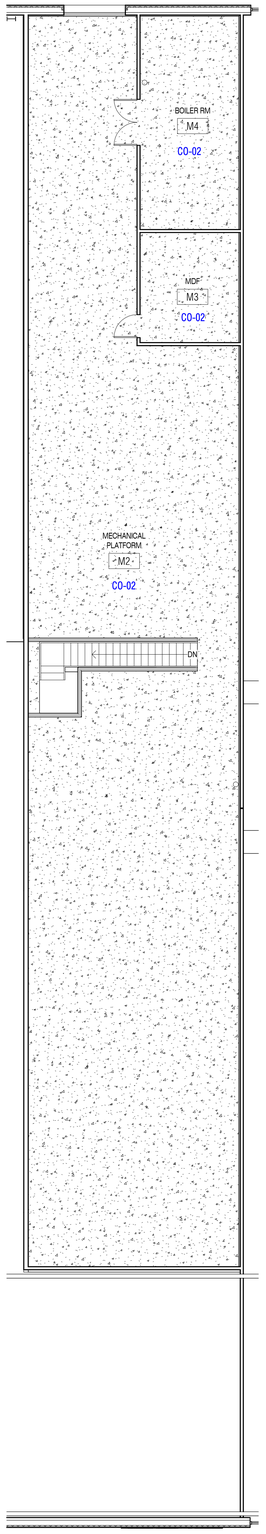
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1 INTERIOR FINISH PLAN - LEVEL 1
SCALE: 1/8" = 1'-0"



2 INTERIOR FINISH PLAN - MECHANICAL PLATFORM
SCALE: 1/8" = 1'-0"

INTERIOR FINISH SCHEDULE NOTES

1. **General Finish Notes**
   - A. Any finish conflict between finish schedules and finish floor plans to be brought to the Architect's attention for resolution.
2. **Floor Finishes**
   - A. Refer to Interior Finish Plans for floor finish patterns.
   - B. Refer to Interior Finish Plans for tile origin in each room. If origin point is not indicated, center in middle of the room or corridor.
   - C. All changes in floor material between rooms shall occur at centerline of doorway, U.N.O.
   - D. Level and float flooring at public corridor walls.
   - E. All toilets and other areas capable of water incursion shall have a 2" x ½" wide marble threshold with ¼" beveled edges centered under each door.
   - F. Sealant color shall match adjacent material.
   - G. Typical flooring application at brick walls:
     1. Resilient Tile/ Sheet Flooring: Rake brick joint at floor level and install sealant between LVT and brick.
     2. Carpet: Rake brick joint at floor level and tuck carpet tight into raked brick joint.
3. **Wall Finishes**
   - A. Finishes shall continue to inside corner, U.N.O.
   - B. Provide Corner Guard CG-01 (to ceiling) at all vinyl wall covering outside corners at public areas, whether indicated on finish plans or not.
   - C. **Vinyl Wallcovering Information**:
     1. No vinyl wallcovering should be terminated at an outside corner. All vinyl wallcovering to wrap to inside corner,U.N.O.
     2. Provide Corner Guard at any vinyl wall covering outside corner when the color changes at the corner.
     3. Provide Corner Guard CG-01 (to ceiling) at all vinyl wall covering outside corners at public areas, whether indicated on finish plans or not.
   - D. **Paint Information:**
     1. **Walls:**
        - a. All exterior walls with gypsum board interior shall be painted PT-01, U.N.O.
        - b. All interior sealants shall be painted to match adjacent wall.
     2. **Hollow Metal Doors and Windows:**
        - a. Hollow metal doors shall be painted PT-03, U.N.O.
        - b. Hollow metal door frames and vision panel frames shall be painted PT-03, U.N.O.
        - c. At door frames with 2 different colors, transition color at inside corner of door stop, on the door side of the stop.
        - d. Hollow metal glazed opening frames shall be painted PT-03, U.NO.
     3. At painted CMU base, color shall match the wall above.
4. **Ceiling Finishes**
   - A. Refer to Reflected Ceiling Plans for scheduled finish.
   - B. At ceilings with exposed structure, all exposed elements shall be painted the scheduled color, including mechanical ductwork, electrical, piping, conduit, j-boxes, etc.
   - C. All interior gypsum board ceilings to be painted PT-01, U.N.O.
   - D. All interior gypsum board furr-downs to be painted PT-01, U.N.O.
5. **Tiling**
   - A. Refer to Detail1/A3.31 for typical wainscot tile wall pattern.
   - B. Refer to Detail 4/A3.31 for typical field toilet room wall patterns.
   - C. Refer to Detail 3/A3.31 for typical accent toilet room wall patterns.
   - D. Refer to Detail 2/A3.31 for typical drinking fountain wall patterns.
   - E. Refer to Detail 5/A3.31 for typical serving line wall pattern.
   - F. Provide Metal Trim WFA-01 at all top & exposed edges at all tile locations.
   - G. Provide Metal Trim WFA-02 at all bottom edges at recessed wall tile patterns (tops & sides) in corridors, whether indicated on finish plans or not.
6. **Casework/ Architectural Woodwork**
   1. Typical Casework/Millwork cabinet body, doors, and drawer fronts shall be PL-01, U.N.O.
   2. Countertops shall be PL-02, U.N.O
   3. Interior Plastic Laminate clad wood doors to be PL-01.
   4. Window Sills shall be PL-02, U.N.O.

INTERIOR FLOOR FINISH LEGEND

TYPE MARK	TYPE
	<varies>
CO-01	Finish Floor - Concrete Polished
CO-02	Finish Floor - Concrete Sealed
CPT-01	Finish Floor - Carpet Field
CPT-03	Finish Floor - Carpet Walk Off
CSG-01	CSG-01_Concrete Slab on Grade
CSS-01	CSS-01_Concrete Slab on Steel Deck & Framing
LVT-01	Finish Floor - Luxury Vinyl Tile Field
PF	Finish Floor - Poured Flooring Resinous/Fluid Applied
SP-2	Site - Paving - Concrete - 6" DEMO

WALL FINISH LEGEND

WTP-01	WALL TILE PATTERN - WAINSCOT; REF.1/A3.31
WTP-02	WALL TILE PATTERN - DRINKING FOUNTAIN; REF. 2/A3.31
WTP-03	WALL TILE PATTERN - RR WET WALL; REF. 3/A3.31
WTP-04	WALL TILE PATTERN - RESTROOM FIELD; REF. 4/A3.31
WTP-05	WALL TILE PATTERN - SERVING LINE; REF. A9.01
CG-01	CORNER GUARD; REF.
PT	PAINT
VWC	VINYL WALLCOVERING

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STATE OF TEXAS
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ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

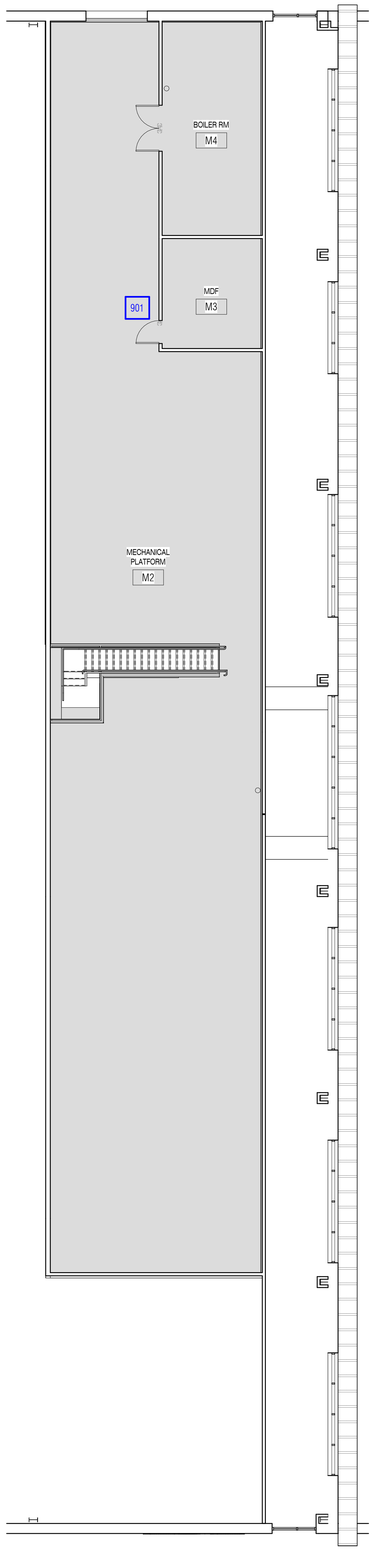
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Brad Ewing
Drawn By	HEF/LY

PROJECT NO.
25-0067.00

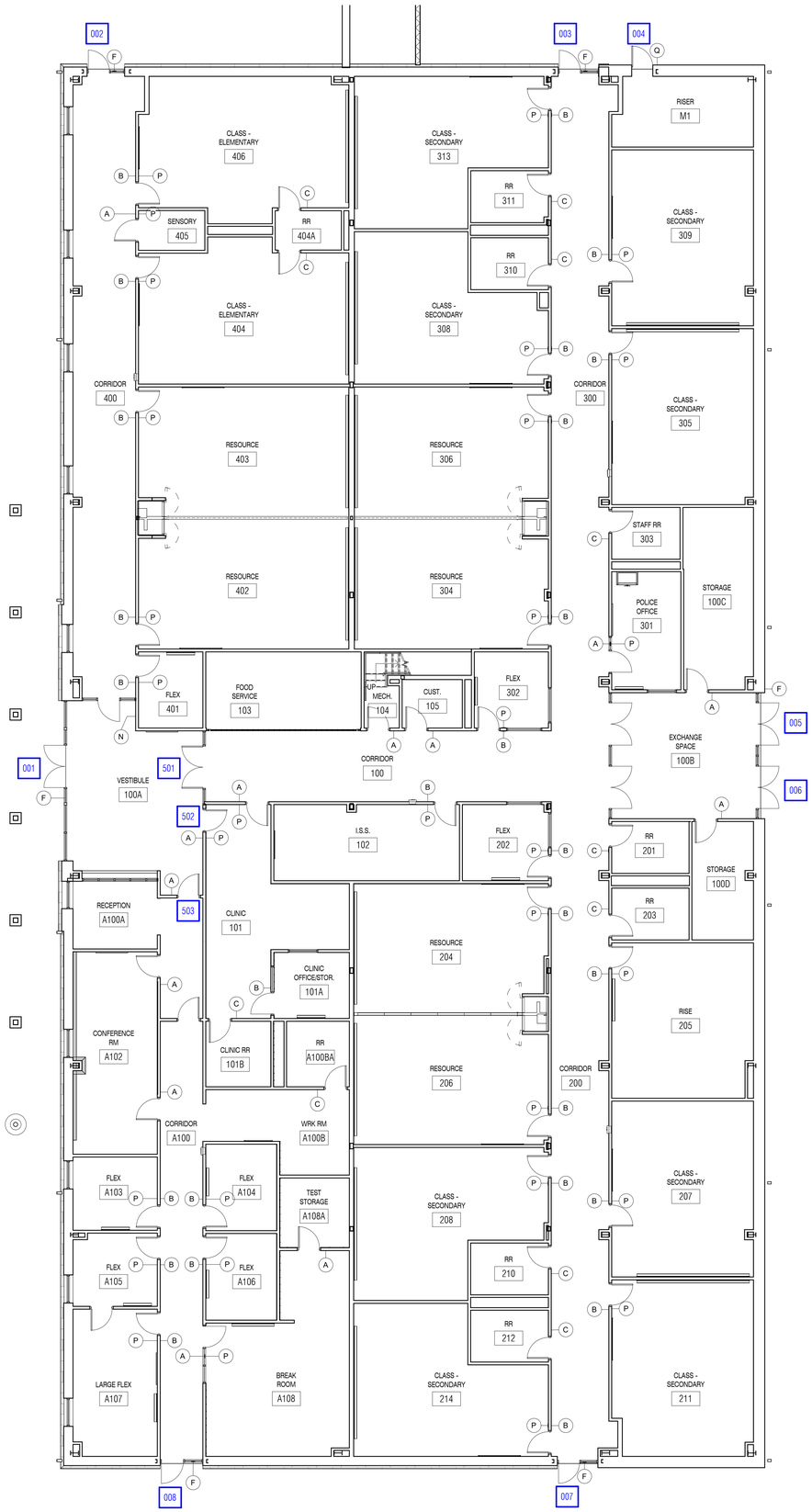
SHEET TITLE
INTERIOR FINISH PLANS

SHEET NO.
A9.11

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2 UNIT WAYFINDING - MECHANICAL PLATFORM
SCALE: 1/8" = 1'-0"



1 UNIT WAYFINDING PLAN - LEVEL 1
SCALE: 1/8" = 1'-0"

SIGNAGE PLAN NOTES

1. REFER TO X / XXX FOR TYP. MOUNTING HEIGHT REQS.

XXX — 6" REFLECTIVE VINYL NUMBERS TO BE ADHERED TO EXTERIOR UPPER RIGHT CORNER OF DOOR LEAFS ON DOORS, AND GLAZING ON THERMALLY BROKEN ALUMINUM STOREFRONT WITH INSULATED GLAZING AS SCHED.AS SCHED. AS NOTED ON SIGNAGE PLANS.

SIGNAGE SCHEDULE

ROOM NUMBER	SIGN TYPE	ROOM: NAME	ROOM: SIGNAGE TEXT	ROOM: SIGNAGE NUMBER
100A	N	VESTIBULE		
100C	A	STORAGE		
100D	A	STORAGE		
101	A	CLINIC		
101	A	CLINIC		
101	P	CLINIC		
101	P	CLINIC		
101A	B	CLINIC OFFICE/STOR.		
101B	C	CLINIC RR	CLINIC RESTROOM	
102	B	I.S.S.		
102	P	I.S.S.		
104	A	MECH.	MECHANICAL	
105	A	CUST.	CUSTODIAL	
201	C	RR	RESTROOM	
202	B	FLEX		
202	P	FLEX		
203	C	RR	RESTROOM	
204	B	RESOURCE		
204	P	RESOURCE		
205	B	RISE		
205	P	RISE		
206	B	RESOURCE		
206	P	RESOURCE		
207	B	CLASS - SECONDARY		
207	P	CLASS - SECONDARY		
208	B	CLASS - SECONDARY		
208	P	CLASS - SECONDARY		
210	C	RR	RESTROOM	
211	B	CLASS - SECONDARY		
211	P	CLASS - SECONDARY		
212	C	RR	RESTROOM	
214	B	CLASS - SECONDARY		
214	P	CLASS - SECONDARY		
301	A	POLICE OFFICE		
301	P	POLICE OFFICE		
302	B	FLEX		
302	P	FLEX		
303	C	STAFF RR	RESTROOM	
304	B	RESOURCE		
304	P	RESOURCE		
305	B	CLASS - SECONDARY		
305	P	CLASS - SECONDARY		
306	B	RESOURCE		
306	P	RESOURCE		
308	B	CLASS - SECONDARY		
308	P	CLASS - SECONDARY		
309	B	CLASS - SECONDARY		
309	P	CLASS - SECONDARY		
310	C	RR	RESTROOM	
311	C	RR	RESTROOM	
313	B	CLASS - SECONDARY		
313	P	CLASS - SECONDARY		
401	B	FLEX		
401	P	FLEX		
402	B	RESOURCE		
402	P	RESOURCE		
403	P	RESOURCE		
403	B	RESOURCE		
404	B	CLASS - ELEMENTARY		
404	P	CLASS - ELEMENTARY		
404A	C	RR	RESTROOM	
404A	C	RR	RESTROOM	
405	A	SENSORY		
405	P	SENSORY		
406	B	CLASS - ELEMENTARY		
406	P	CLASS - ELEMENTARY		
A100BA	C	RR	RESTROOM	
A102	A	CONFERENCE RM	CONFERENCE ROOM	
A102	A	CONFERENCE RM	CONFERENCE ROOM	
A103	B	FLEX		
A103	P	FLEX		
A104	B	FLEX		
A104	P	FLEX		
A105	B	FLEX		
A105	P	FLEX		
A106	B	FLEX		
A106	P	FLEX		
A107	B	LARGE FLEX		
A107	P	LARGE FLEX		
A108	A	BREAK ROOM		
A108	P	BREAK ROOM		
A108A	A	TEST STORAGE		
A200	A	CORRIDOR		

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Katy ISD
Katy, TX

NEW OPPORTUNITY AWARENESS CENTER

REGISTERED ARCHITECT — CHARLES W. JOHNSON — 22094 — STATE OF TEXAS

05/26/2026

ISSUED: May 26, 2026

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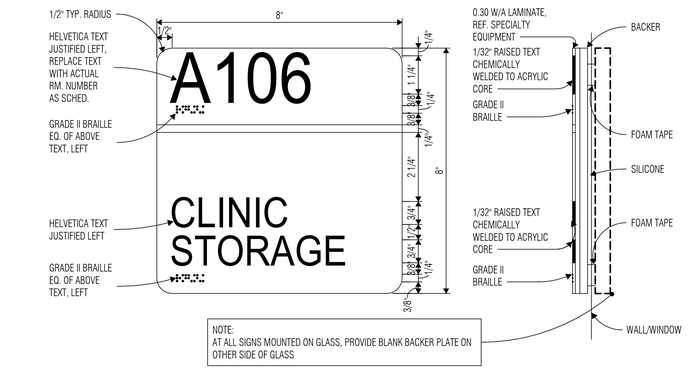
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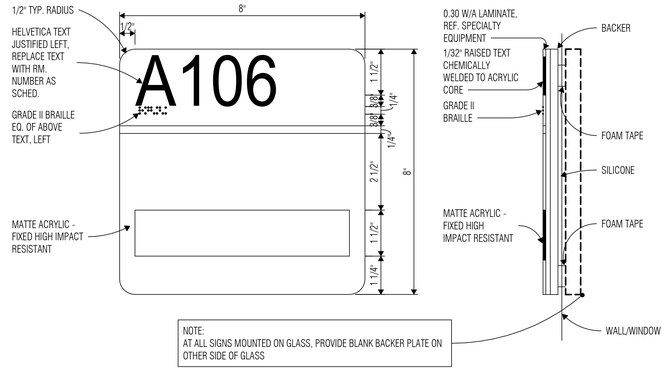
SHEET TITLE
WAYFINDING PLANS

SHEET NO.
A9.41A

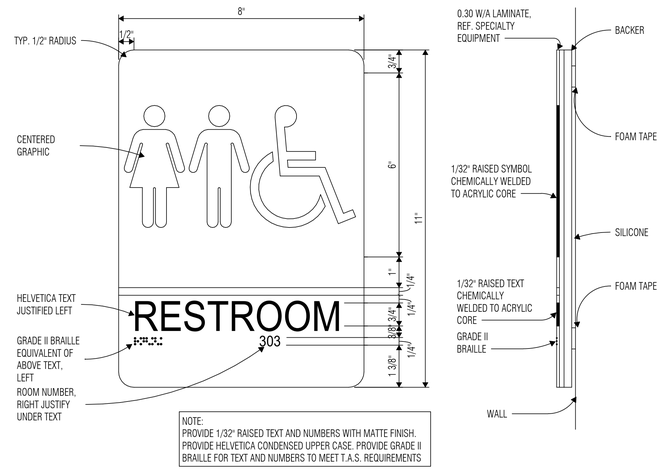
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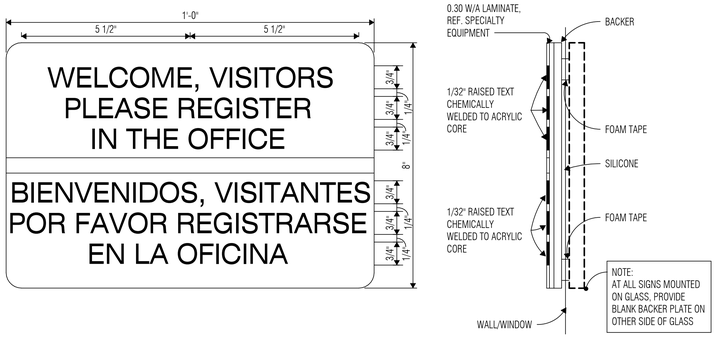
1 SIGN TYPE A
SCALE: 6" = 1'-0"



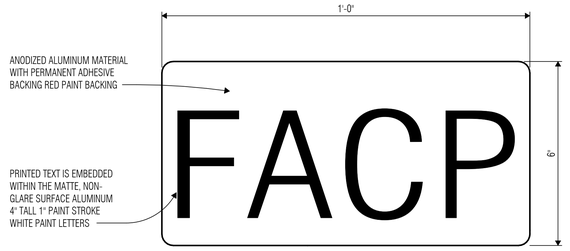
2 SIGN TYPE B
SCALE: 6" = 1'-0"



3 SIGN TYPE C
SCALE: 6" = 1'-0"



4 SIGN TYPE F
SCALE: 6" = 1'-0"



6 SIGN TYPE K
SCALE: 6" = 1'-0"

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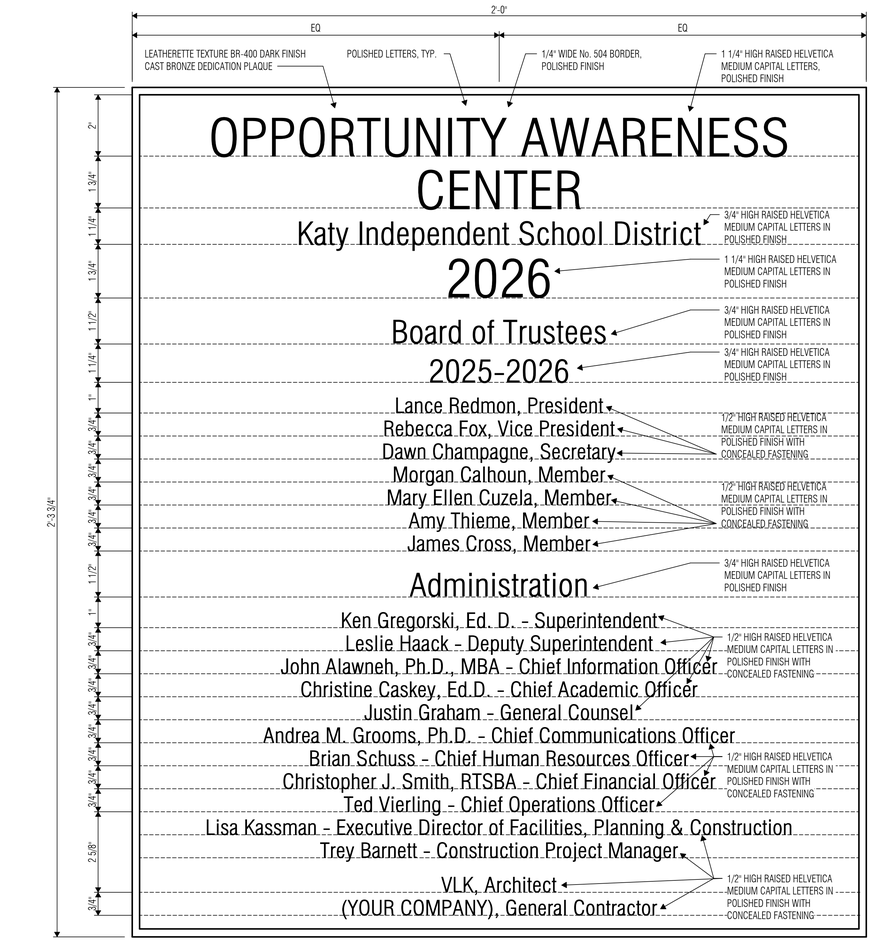
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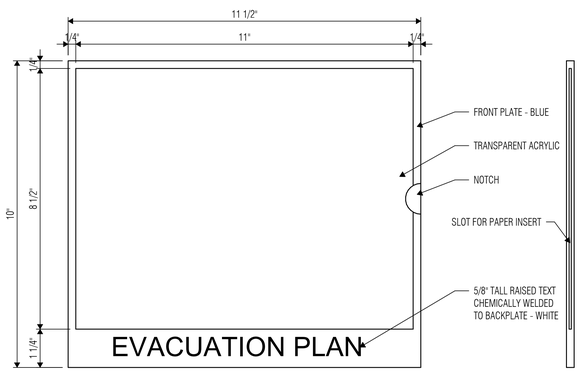
SHEET TITLE
WAYFINDING DETAILS

SHEET NO.
A9.48

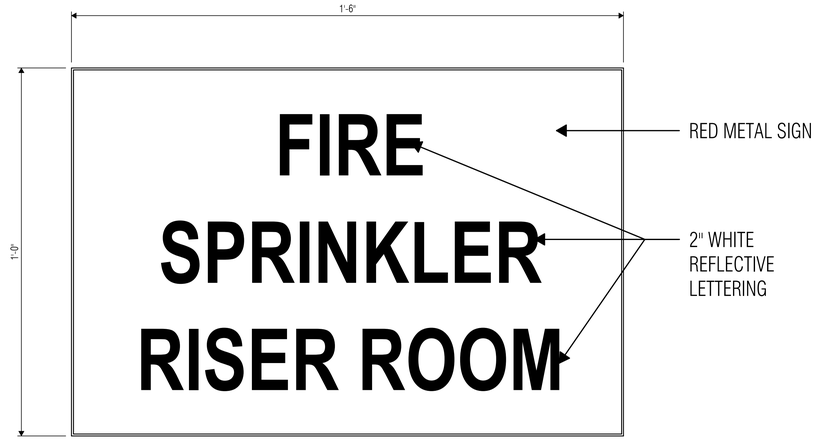
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1 SIGN TYPE N
SCALE: 6" = 1'-0"



2 SIGN TYPE P
SCALE: 6" = 1'-0"



SIGN SHALL BE MOUNTED AT THE CENTERPOINT OF THE DOOR

TOP OF SIGN SHALL BE MOUNTED 6' FROM BOTTOM OF THE DOOR

3 SIGN TYPE Q
SCALE: 6" = 1'-0"

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SHEET TITLE
WAYFINDING DETAILS

SHEET NO.
A9.49

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GENERAL

1. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES. THE CODES LISTED SHALL INCLUDE ALL AMENDMENTS AND ADDENDA IN FORCE AT THE DATE OF THE CONTRACT DOCUMENTS.

   2021 EDITION OF THE INTERNATIONAL BUILDING CODE

2. WHERE CONFLICT EXISTS AMONG THE VARIOUS PARTS OF THE STRUCTURAL AND ARCHITECTURAL CONTRACT DOCUMENTS THE STRICTEST REQUIREMENTS SHALL GOVERN.

3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE AND REPORT ANY DISCREPANCIES OR INCONSISTENCIES FROM ASSUMED CONDITIONS TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.

4. DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH DETAILS APPLY WHETHER OR NOT THEY ARE CUT AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE ENGINEER.

5. DO NOT SCALE THE DRAWINGS.

6. THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCY BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.

7. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE FIELD.

8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO HYDROSTATIC, EARTH, WIND OR SEISMIC FORCES, AND CONSTRUCTION EQUIPMENT. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

9. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE.

10. IT IS THE DESIGN INTENT FOR ALL CONCRETE POURS TO HAPPEN IN SEQUENTIAL ORDER FROM FOUNDATIONS THROUGH ROOF. THE CONTRACTOR SHALL DISCUSS WITH THE A/E TEAM THE FEASIBILITY OF NON-SEQUENTIAL POURING OF CONCRETE AND ITS IMPACT ON THE DESIGN INTENT AND ALLOW SUFFICIENT TIME FOR SUCH SCHEME TO BE INVESTIGATED OR REVIEWED.

11. PERIODIC SITE OBSERVATION BY THE ENGINEER IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OF THE WORK, BUT RATHER PERIODIC IN NATURE TO GUARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE WORK OF THE CONTRACTOR.

12. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN THE STRUCTURAL MEMBERS.

13. DO NOT PENETRATE ANY STRUCTURAL ELEMENTS (BEAMS, COLUMNS, WALLS, SLABS, ETC.) WITHOUT PRIOR WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

14. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

15. SEE THE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:

    SIZE AND LOCATION OF DOOR AND WINDOW OPENINGS,
    SIZE AND LOCATION OF INTERIOR AND EXTERIOR NON-LOAD BEARING PARTITIONS, SIZE AND LOCATION OF CONCRETE CURB, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHAMFERS, GROOVES, INSERTS, ETC., SIZE AND LOCATION OF FLOOR AND ROOF OPENINGS, FLOOR AND ROOF FINISHES, STAIR FRAMING AND DETAILS, DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, CEILING AND EXTERIOR WALL ASSEMBLIES.

16. SEE THE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:

    PIPES, SLEEVES, HANGERS, TRENCHES, WALL, FLOOR AND ROOF OPENINGS, DUCT PENETRATIONS, ETC., EXCEPT AS SHOWN OR NOTED OTHERWISE ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS, CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL, OR PLUMBING FIXTURES, SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES AND ANCHOR BOLTS FOR MOUNTS.

DESIGN CRITERIA

1. DEAD LOAD MATERIALS ASSUMED IN THE DESIGN ARE SHOWN ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.

2. AN ALLOWANCE OF 15 PSF HAS BEEN MADE FOR PARTITIONS AS A UNIFORMLY DISTRIBUTED LIVE LOAD, WHEREVER PARTITIONS ARE USED AND LOCATION SUBJECT TO CHANGE EXCLUDING PUBLIC LOBBIES, CORRIDORS, RESTROOMS, AND PLACES OF PUBLIC ASSEMBLY.

3. LIVE LOADS:

LOCATION	UNIFORM LOAD	CONCENTRATED LOAD
ROOF	20 PSF REDUCIBLE	300 LBS
CORRIDORS	100 PSF REDUCIBLE	
MECHANICAL PLATFORM	150 PSF UNREDUCIBLE	
STAIRS AND EXITS	100 PSF REDUCIBLE	300 LBS
GROUND FLR, COMMON AREAS	100 PSF REDUCIBLE	
HANDRAILS AND GUARDRAILS	50 PLF OR 200 LBS APPLIED AT TOP RAIL IN ANY DIRECTION. 50 LBS IN ANY DIRECTION APPLIED AT INTERMEDIATE RAILS.	

4. WIND LOADS

ULTIMATE WIND SPEED	140 MPH (3-SEC GUST)
NOMINAL WIND SPEED	109 MPH (3-SEC GUST)
RISK CATEGORY	III
EXPOSURE CATEGORY	C
INTERNAL PRESSURE COEFF.	+/- 0.18
COMPONENTS & CLADDING	SEE S1.02

5. HANDRAILS, GUARDRAILS AND GRAB BARS (INCLUDING ATTACHMENT TO STRUCTURE) SHALL BE DESIGNED BY THE FABRICATOR FOR THE LOADS INDICATED IN THE REFERENCED BUILDING CODE. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER IN THE STATE OF WHERE THE PROJECT IS LOCATED, REPRESENTING THE FABRICATOR.

6. STAIRS SHALL BE DESIGNED BY THE STEEL FABRICATOR FOR CODE REQUIRED LOADS. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER IN THE STATE OF WHERE THE PROJECT IS LOCATED, REPRESENTING THE FABRICATOR.

FOUNDATION

1. THE FOUNDATION DESIGN IS BASED ON THE FOLLOWING GEOTECHNICAL REPORT (AND ANY ADDENDA) PREPARED BY THE FOLLOWING COMPANY:

   COMPANY GEOTECH ENGINEERING AND TESTING
   REPORT NO. 25-571E
   DATED AUGUST 27, 2025

   ALL RECOMMENDATIONS THEREIN THAT RELATE TO THE WORK SHOWN ON THESE DRAWINGS SHALL BE FOLLOWED.

2. THE FOUNDATION SYSTEM IS DESIGNED BASED ON THE FOLLOWING

   ALLOWABLE BEARING PRESSURE: (DRILLED-AND-UNDERREAMED PIERS)
   SUSTAINED LOADS 4,000 PSF
   TOTAL LOADS 6,000 PSF

3. THE GENERAL CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER OR OTHER AUTHORIZED INSPECTOR FOR REVIEW OF FOUNDATION BEARING SURFACE, INSPECTION OF FOUNDATION INSTALLATION, AND PLACEMENT OF REINFORCING STEEL. THE CONTRACTOR SHALL NOT PLACE CONCRETE WITHOUT INSPECTOR'S APPROVAL.

4. THE CONTRACTOR SHALL NOTIFY THE AUTHORIZED INSPECTOR 48 HOURS IN ADVANCE OF ANY MAJOR FOUNDATION POUR.

5. FORM EXPOSED FACES OF GRADE BEAMS.

6. GRADE BEAM BOTTOM STEEL SHALL BE CHAIRED AT 5 FOOT MAXIMUM CENTERS USING BEAM BOLSTERS PROVIDING 3 INCH BOTTOM COVER TO REINFORCING STEEL. BEAM BOLSTERS USED SHALL BE INTENDED FOR SUPPORT ON SOIL.

7. BOTTOM BARS OF GRADE BEAM SHALL BE SPLICED (WHERE REQUIRED) AT THE PIERS ONLY. TOP BARS SHALL BE SPLICED (WHERE REQUIRED) AT THE MIDSPAN OF THE GRADE BEAMS. LAP LENGTH SHALL BE TENSION LAP SPLICE UNLESS SPECIFIED OTHERWISE. PROVIDE CORNER BARS TO MATCH TOP AND BOTTOM STEEL.

8. ALL REINFORCING STEEL FOR SLABS SHALL BE CHAIRED WITH SLAB BOLSTERS FOR SUPPORT ON SOIL AT 4'-0" MAXIMUM CENTERS EACH WAY FOR REINFORCING FOR SLABS. DEPTH OF CHAIRS SHALL PROVIDE COVER TO REINFORCING AS NOTED ON PLANS/DETAILS.

9. SLAB ON GRADE CONSTRUCTION SHALL FOLLOW THE RECOMMENDATIONS OF GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION ACI 302.1R. PROVIDE (3) #3 X 4'-0" TOP AND BOTTOM AT ALL SLAB ON GRADE RE-ENTRANT CORNERS.

10. SUBGRADE PREPARATION SHALL CONFORM TO THE SOILS REPORT NOTED ABOVE. IF REPORT DOES NOT SPECIFY THE AMOUNT OF SELECT FILL, PROVIDE FILL AS REQUIRED ABOVE TO REDUCE PVR TO 1 INCH.

11. VAPOR RETARDER SHALL HAVE NO MORE THAN 0.01 PERMS AS TESTED BEFORE AND AFTER MANDATORY CONDITIONING (ASTM E 1745 SECTION 7.1 AND SUB-PARAGRAPHS 7.1.2-5), MEET OR EXCEED THE REQUIREMENTS OF ASTM E 1745 CLASS A AND BE NO LESS THAN 15 MILS THICK.

12. ALL VAPOR RETARDER SEAMS SHALL BE OVERLAPPED A MINIMUM OF 6 INCHES AND TAPED WITH MANUFACTURER'S TAPE. ALL PENETRATIONS, BLOCK-OUTS, AND OPENINGS SHALL BE SEALED USING A COMBINATION OF THE VAPOR RETARDER, MASTIC AND MANUFACTURER'S TAPE. DO NOT PENETRATE VAPOR RETARDER WITH FORMWORK STAKES. USE STEGO BEAST FORM STAKES OR EQUIVALENT WHERE REQUIRED.

13. REMOVE ALL VEGETATION, TREE ROOTS, ORGANIC TOPSOIL, EXISTING FOUNDATIONS, PAVED AREAS, AND ANY UNDESIRABLE MATERIALS FROM THE CONSTRUCTION AREA.

14. SCARIFY THE SUBGRADE, ADD MOISTURE, OR DRY AS NECESSARY AND RECOMPACT TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR TEST).

15. THE SUBGRADE AREAS SHALL THEN BE PROOF-ROLLED WITH A LOADED DUMP TRUCK OR SIMILAR PNEUMATIC-TIRED EQUIPMENT WITH LOADS RANGING FROM 25-TO 50 TONS. ANY SOILS DEFLECTING EXCESSIVELY UNDER MOVING LOADS SHALL BE UNDERCUT TO FIRM SOILS AND RECOMPACTED. THE MOISTURE CONTENT AT THE TIME OF COMPACTION OF SUBGRADE SOILS SHALL BE WITHIN –2 TO +2% OF THE OPTIMUM PROCTOR VALUE.

16. SELECT STRUCTURAL FILL BENEATH THE BUILDING AREA SHALL CONSIST OF OFF-SITE INORGANIC CLAY OR SILTY CLAY WITH A LIQUID LIMIT LESS THAN 40 AND A PLASTICITY INDEX BETWEEN 12 AND 20 AND AT LEAST 50% OF SOIL PARTICLES PASSING NO.200 SIEVE. STRUCTURAL FILL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING EIGHT INCHES IN THICKNESS AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698. THE MOISTURE CONTENT OF THE FILL AT THE TIME OF COMPACTION SHALL BE WITHIN OPTIMUM TO +3% OF THE OPTIMUM VALUE.

17. PROVIDE MINIMUM 24 INCHES OF SELECT STRUCTURAL FILL UNDER BUILDING SLAB TO SEPARATE BUILDING SLAB FROM THE EXISTING GRADE. REMOVE EXISTING GRADE AS REQUIRED. CONTRACTOR SHALL RETAIN A TESTING LABORATORY FOR THE DETERMINATION OF SOIL COMPACTION AND CONCRETE TESTING. SUBMIT RESULTS TO ARCHITECT.

18. THE CONTRACTOR SHALL ENSURE THE SELECT STRUCTURAL FILL MATERIAL IS PROPERLY MIXED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER AND TESTING LAB AND SHALL MAKE PROVISIONS FOR SOIL PULVERIZATION OR OTHER MIXING METHODS AS REQUIRED.

19. THE BEARING STRATUM OF EACH DRILLED PIER SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER OR OTHER AUTHORIZED INSPECTOR PRIOR TO POURING OF CONCRETE.

20. THE BOTTOM ELEVATION OF PIERS IS SHOWN ON THE DRAWINGS FOR BID PURPOSES. THE ACTUAL REQUIRED BEARING ELEVATION MAY VARY AS REQUIRED TO PROVIDE PROPER CAPACITY AS DETERMINED BY THE GEOTECHNICAL ENGINEER. FOOTINGS SHALL BE POURED IMMEDIATELY AFTER EXCAVATION.

21. PROVIDE AND INSTALL 1/8 INCH STEEL TEMPLATES TO ACCURATELY SET VERTICAL PIER REINFORCING STEEL, AND ANCHOR BOLTS FOR STEEL COLUMNS.

22. THE PRESENCE OF SAND SEAMS AND SLICKENSIDES IN THE LAYERS MAY CAUSE SLOUGHING DURING PIER EXCAVATION. THIS MAY REQUIRE THE USE OF TEMPORARY STEEL CASING.

23. DUE TO POTENTIAL VARIABILITY OF THE ON-SITE SOILS AND POTENTIAL GROUNDWATER FLUCTUATIONS, FOUR CORNER PIERS BE DRILLED FIRST TO BETTER EVALUATE THE CONSTRUCTABILITY OF THE DEPTH AND BELL TO SHAFT RATIOS PER THE SOILS REPORT NOTED ABOVE.

24. REDUCING THE POTENTIAL FOR CAVING OF THE BELL CAN BE ACHIEVED BY LIMITING THE BELL TO SHAFT DIAMETER RATIO TO 2:1 OR INSTALLING STRAIGHT SHAFT FOOTINGS WITH SHAFT DIAMETER OF BELL DIAMETER.

25. THE GROUNDWATER LEVELS MAY FLUCTUATE SEASONALLY AND WITH CLIMATIC CHANGES. SEEPAGE OF GROUNDWATER INTO THE EXCAVATIONS IS POSSIBLE AND SEEPAGE FROM "PERCHED" WATER TRAPPED IN THE SOILS MAY ALSO OCCUR. THE CONTRACTOR SHALL MAKE PROVISIONS FOR DEWATERING THE FOOTING EXCAVATION IF GROUNDWATER IS ENCOUNTERED.

26. CONCRETE SHALL BE PLACED AS SOON AS POSSIBLE AFTER THE FOOTING EXCAVATIONS ARE COMPLETED TO REDUCE THE POTENTIAL FOR WATER SEEPAGE AND TO MINIMIZE THE DISTURBANCE TO THE BEARING AREA. IN NO CASE, SHOULD AN EXCAVATION BE LEFT OPEN OVERNIGHT.

CONCRETE

1. ALL ASPECTS OF WORK RELATING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:

   CURRENT EDITION OF ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
   CURRENT EDITION OF ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
   CRSI MANUAL OF STANDARD PRACTICE

2. STRUCTURAL CONCRETE 28-DAY COMPRESSIVE STRENGTHS AND TYPES ARE AS FOLLOWS:

LOCATION	STRENGTH	TYPE	AGGREGATE SIZE	EXPOSURE CLASS
FOUNDATIONS	3000 PSI	NORMAL WT	1 1/2"	F0, S0, W0, C0
GRADE BEAMS	3000 PSI	NORMAL WT	1 1/2"	F0, S0, W0, C0
SLAB-ON-GRADE	3000 PSI	NORMAL WT	1 1/2"	F0, S0, W0, C0
METAL DECK SLAB	3500 PSI	NORMAL WT	1"	F0, S0, W0, C0
STAIR PANS	3000 PSI	NORMAL WT	3/8"	F0, S0, W0, C0
TOPPING SLAB	3000 PSI	LIGHTWEIGHT	3/8"	F0, S0, W0, C0

3. THERE SHALL BE NO HORIZONTAL COLD JOINT IN ANY CONCRETE POUR.

4. ADMIXTURES USED SHALL BE COMPATIBLE WITH FLOOR TREATMENTS. FINISH APPLICATOR SHALL APPROVE ADMIXTURES AND CURING COMPOUNDS PRIOR TO USE.

5. EXPOSURE CLASSES FOR FREEZING AND THAWING (F), SULFATE (S), WATER (W), AND CORROSION PROTECTION (C) HAVE BEEN PROVIDED. CONCRETE MIXES SHALL CONFORM TO ALL ACI 318 REQUIREMENTS BASED ON EXPSURE CLASS, INCLUDING, BUT NOT LIMITED TO WATER CEMENT RATIO, COMPRESSION STRENGTH, AIR CONTENT, CEMENTITIOUS MATERIALS, CALCIUM CLORIDE ADMIXTURES, AND WATER-SOLUABLE CHLORIDE ION CONTENT.

6. CONCRETE FOR SLAB-ON-GRADE SHALL HAVE A MAXIMUM WATER-CEMENT RATIO OF 0.45. ALL OTHER CONCRETE SHALL HAVE A MAXIMUM WATER-CEMENT RATIO OF 0.50. ADJUST CONCRETE STRENGTH BEYOND MINIMUM SPECIFIED ABOVE TO MAINTAIN MAXIMUM WATER-CEMENT RATIO.

7. CONCRETE FOR SLAB-ON-GRADE AND METAL DECK SHALL BE PROPORTIONED FOR A MAXIMUM ALLOWABLE UNIT SHRINKAGE OF 0.04% (400 MICROSTATIONS) AT 28 DAYS OF DRYING. LENGTH CHANGE SHALL BE MEASURED IN ACCORDANCE WITH ASTM C157.

8. FLY ASH CONFORMING TO ASTM C618, MAY BE USED UNLESS NOTED OTHERWISE. THE MAXIMUM AMOUNT OF FLY ASH SHALL BE 25% OF THE TOTAL CEMENTITIOUS MATERIAL BY WEIGHT.

9. AT POLISHED OR STAINED CONCRETE, THE FLY ASH ALLOWANCE IN NOTE 8 DOES NOT APPLY. NO FLY ASH IS PERMITTED IN THESE MIXES. ADDITIONALLY, NO AIR ENTRAINMENT IS ALLOWED EITHER. MAX WATER CEMENT RATIO SHALL BE 0.45. WET CURING IS REQUIRED AT POLISHED CONCRETE. USE ONE SOURCE FOR CEMENT, AGGREGATES, AND POZZOLANS THROUGHOUT THE PROJECT. DO NOT USE CALCIUM CHLORIDE-BASED ADMIXTURES. NON-CHLORIDE ADMIXTURES MAY BE USED. GENERAL CONTRACTOR SHALL PROTECT AREAS TO RECEIVE CONCRETE FINISH AT ALL TIMES DURING CONSTRUCTION TO PREVENT OILS, DIRT, METAL, EXCESSIVE WATER, AND OTHER POTENTIALLY DAMAGING MATERIALS FROM AFFECTING THE FINISHED CONCRETE SURFACE.

10. AT POLISHED OR STAINED CONCRETE THE FLOOR FLATNESS (FF) SHALL BE 40 OR BETTER AND THE FLOOR LEVELNESS (FL) SHALL BE 30 OR BETTER UNLESS MORE STRINGENT REQUIREMENTS ARE PROVIDED IN THE SPECIFICATIONS.

11. CONCRETE FORMS SHALL BE LAID OUT AND CONSTRUCTED TO PROVIDE THE SPECIFIED CAMBERS INDICATED ON THE STRUCTURAL DRAWINGS.

12. CONCRETE FOR SLABS TO RECEIVE A HARD-TROWELED FINISH SHALL NOT CONTAIN AIR-ENTRAINING ADMIXTURES OR HAVE A TOTAL AIR CONTENT GREATER THAN 3 PERCENT.

13. SUBMIT SHOP DRAWINGS TO ARCHITECT AND ENGINEER INDICATING LOCATIONS OF CONCRETE JOINTS TO REVIEW PRIOR TO PLACING CONCRETE. PLACE JOINTS AT LOCATIONS TO MINIMIZE THE EFFECTS OF SHRINKAGE AS WELL AS BEING PLACED AT POINTS OF LOW STRESS.

14. ROUGHEN CONCRETE SURFACES TO 1/4 INCH AMPLITUDE WHERE MASONRY WALLS INTERSECT CONCRETE OR WHERE NEW CONCRETE INTERFACES WITH EXISTING CONCRETE.

15. MECHANICAL PIPES AND ELECTRICAL CONDUITS WHICH PASS THROUGH SLAB-ON-GRADE, CONCRETE ON METAL DECK, FRAMED CONCRETE FLOORS, AND WALLS DO NOT REQUIRE SLEEVES UNLESS NOTED OTHERWISE ON THE PROJECT SPECIFICATIONS, MECHANICAL OR ELECTRICAL DRAWINGS. IF SLEEVES ARE REQUIRED, INSTALL SLEEVES BEFORE PLACING CONCRETE. DO NOT CUT ANY REINFORCING WHICH MAY INTERFERE WITH SLEEVE PLACEMENT. CORING OPENINGS IN CONCRETE IS NOT PERMITTED. NOTIFY THE ARCHITECT AND ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. NO PIPES OR ELECTRICAL CONDUIT SHALL PASS THROUGH CONCRETE BEAMS OR COLUMNS UNLESS SPECIFICALLY DETAILED.

16. WITH THE EXCEPTION OF SLABS ON GRADE AND CONCRETE ON METAL DECK, THE OUTSIDE DIAMETER OF MECHANICAL PIPES AND/OR ELECTRICAL CONDUITS (OTHER THAN THOSE PASSING THROUGH) SHALL NOT EXCEED 1/3 OF THE SLAB THICKNESS AND SHALL BE CENTERED BETWEEN THE TOP AND BOTTOM REINFORCING UNLESS SPECIFICALLY DETAILED OTHERWISE. CONCENTRATIONS OF MECHANICAL PIPES AND/OR ELECTRICAL CONDUITS SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE PROVIDED. CONDUIT AND PIPE SHALL BE SPACED AT 3' OR 3 DIAMETERS ON CENTER, WHICHEVER IS GREATER.

17. FOR SLABS ON GRADE AND METAL DECK SLABS NO PIPES OR CONDUITS SHALL BE PLACED WITHIN THE INDICATED SLAB THICKNESS AND SHALL BE LOCATED BELOW THE SLAB UNLESS SPECIFICALLY DETAILED OTHERWISE.

18. THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ALL FORMS, SHORES, BACKSHORES, FALSEWORK, BRACING, AND OTHER TEMPORARY SUPPORTS SHALL BE ENGINEERED TO SUPPORT ALL LOADS IMPOSED INCLUDING THE WET WEIGHT OF CONCRETE, CONSTRUCTION EQUIPMENT, LIVE LOADS, LATERAL LOADS DUE TO WIND AND WET CONCRETE IMBALANCE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DETERMINING WHEN TEMPORARY SUPPORTS, SHORES, BACKSHORES, AND OTHER BRACING MAY BE SAFELY REMOVED.

REINFORCING STEEL

1. ALL ASPECTS OF WORK RELATING TO THE REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:

   CURRENT EDITION OF ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
   CRSI MANUAL OF STANDARD PRACTICE

2. DEFORMED BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.

3. WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ASTM A185, YIELD STRENGTH 65,000 PSI. WELDED DEFORMED WIRE FABRIC FOR ASTM A497, YIELD STRENGTH 70,000 PSI. ALL WELDED WIRE FABRIC SHALL BE FURNISHED IN FLAT SHEETS ONLY. WHEREVER WELDED WIRE FABRIC IS SPECIFIED AS REINFORCEMENT, IT SHALL BE CONTINUOUS ACROSS THE ENTIRE CONCRETE SURFACE AND NOT INTERRUPTED BY BEAMS OR GIRDERS AND PROPERLY LAPPED ONE CROSS WIRE SPACING PLUS 2 INCHES.

4. MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6 INCHES OR ONE FULL MESH AND ONE HALF, WHICHEVER IS GREATER.

5. WELDING OF REINFORCING IS PERMITTED ONLY WHERE SHOWN ON THE DRAWINGS OR WHEN APPROVED BY THE ENGINEER OF RECORD. WELDING OF REINFORCING BARS SHALL BE WITH LOW HYDROGEN ELECTRODES IN ACCORDANCE WITH THE RECOMMENDED PRACTICES OF AWS D1.4.

6. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.

7. REINFORCING DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME NUMBER, SIZE, SPACING, AND GRADE AS THE SPECIFIED VERTICAL REINFORCING, UNO.

8. IN ADDITION TO ALL OF THE REINFORCING STEEL INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL PROVIDE FOR AN ALLOWANCE OF A NET (TWO) TONS OF REINFORCING BARS TO BE FURNISHED, FABRICATED, AND PLACED DURING THE PROGRESSION OF WORK AS MAY BE DIRECTED BY THE ENGINEER OF RECORD.

9. CLEAR COVERAGE OF CONCRETE OVER REINFORCING BARS SHALL BE AS FOLLOWS:

LOCATION OF CONCRETE	MINIMUM COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	
#6 THROUGH #18 BAR	2"
#5 BAR AND SMALLER	1 1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND	
SLABS, WALLS, JOISTS	3/4"
BEAMS, COLUMNS (INCLUDING TIES)	1 1/2"
SLAB ON GRADE	SEE DETAILS

NON-SHRINK GROUT FOR BASE PLATES AND BEARING PLATES

1. GROUT FOR BASE PLATES AND BEARING PLATES SHALL BE A NON-METALLIC, SHRINKAGE RESISTANT, PREMIXED, NON-CORROSIVE, NON-STAINING PRODUCT CONTAINING PORTLAND CEMENT, SILICA SANDS, SHRINKAGE COMPENSATING AGENTS, AND FLUIDITY IMPROVING COMPOUNDS.

2. GROUT SHALL CONFORM TO CORPS OF ENGINEERS SPECIFICATION FOR NON-SHRINK GROUT, CE-CRD-C621. TWENTY-EIGHT DAY COMPRESSIVE STRENGTH AS DETERMINED BY GROUT CUBE TESTS, SHALL BE 5,000 PSI. MINIMUM THICKNESS OF GROUT UNDER ALL BASE PLATES AND BEARING PLATES SHALL BE 1 INCH, UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS.

3. GROUT SHALL BE PLACED IN A FLUID FLOWABLE STATE UNDER BASE PLATES THAT HAVE A FORM BUILT AROUND THEM FOR GROUT CONFINEMENT. GROUT SHOULD BE CURED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

4. GROUT SHALL BE PLACED AND HARDENED PRIOR TO POURING ANY ELEVATED CONCRETE FLOORS SUPPORTED ON THE ASSOCIATED COLUMN.

5. BASE PLATES SHALL BE LOCATED USING LEVELING NUTS OR SHIMS. SHIMS SHALL BE STEEL OR A PLASTIC/COMPOSITE PRODUCT WITH COMPRESSIVE STRENGTH GREATER THAN OR EQUAL TO MINIMUM 28 DAY COMPRESSIVE STRENGTH OF THE GROUT.

6. LEVELING NUTS MAY NOT BE USED WHERE ANCHOR RODS ARE DIRECTLY EMBEDDED IN SPREAD FOOTINGS. LEVELING NUTS MAY BE USED WHEN ANCHOR RODS ARE EMBEDDED IN PLINTHS SUPPORTED BY SPREAD FOOTINGS OR PIERS.

7. G.C. TO COORDINATE REQUIRED GROUT THICKNESS WITH SUBCONTRACTORS. IF A DIFFERENT GROUT THICKNESS THAN SHOWN ON THE DETAILS IS DESIRED SUBMIT REQUEST FOR ALTERNATE THICKNESS TO EOR.

COLD-FORMED STEEL

1. ALL ASPECTS OF WORK RELATING TO COLD-FORMED (LIGHT GAGE) STEEL CONSTRUCTION SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:

   CURRENT EDITION OF THE AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, INCLUDING ANY SUPPLEMENTS.

2. COLD-FORMED STEEL MEMBERS SHALL BE OF THE SIZE, GAUGE, AND SPACING SHOWN ON THE DRAWINGS. FLANGE WIDTHS SHALL BE 1 5/8" WITH 1/2" RETURNS UNLESS SPECIFIED OTHERWISE.

3. ALL FRAMING MEMBERS SHALL BE MANUFACTURED FROM CORROSION RESISTANT STEEL CONFORMING TO ASTM A653 (G60). 25 GAUGE THROUGH 18 GAUGE MEMBERS SHALL BE FORMED FROM STEEL HAVING A MINIMUM 33 KSI YIELD POINT PER ASTM A653 GRADE 33. 16 GAUGE THROUGH 12 GAUGE MEMBERS SHALL BE FORMED FROM STEEL HAVING A MINIMUM 50 KSI YIELD POINT PER ASTM A446 GRADE 50.

4. SPLICES IN FRAMING COMPONENTS EXCEPT RUNNERS AND TRACKS SHALL NOT BE PERMITTED.

5. AT LOAD BEARING WALLS SUPPORTING FLOOR OR ROOF JOISTS, LOCATE STUDS DIRECTLY UNDER THE JOISTS OR PROVIDE LOAD DISTRIBUTING MEMBER BETWEEN STUDS TO SUPPORT JOISTS.

6. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDING. WELDING SHALL BE DONE USING FILLET, PLUG, BUTT OR SEAM WELDS WITH A MINIMUM 3/32 IN. AWS TYPE 6013 WELDING RODS. WELD AREAS SHOULD BE RE-TOUCHED WITH THE APPROPRIATE PAINT OR COLD-GALVANIZING TO RETAIN CORROSION RESISTANCE. ALL WORK SHALL BE COMPLETED BY QUALIFIED WELDERS IN ACCORDANCE WITH AWS D1.3 STANDARDS.

7. PROVIDE HORIZONTAL BRIDGING IN ALL STUD SYSTEMS AT 4'-0" O.C. VERTICALLY FOR AXIALLY LOADED STUDS AND AT 6'-0" O.C. FOR NON-LOAD BEARING STUDS. WELD AT EACH STUD INTERSECTION.

8. SCREWS SHALL BE SELF-DRILLING AND OF TYPE S-12, ASTM C-954, EXCEPT THAT TYPE S, ASTM C-1002 MAY BE USED FOR 20 GAUGE OR 22 GAUGE MATERIAL ONLY. SCREWS SHALL BE 3/8" TO 1/2" LONGER THAT TOTAL MATERIAL THICKNESS.

9. SHEATHING MATERIALS FOR SHEAR WALLS MUST EXTEND AND BE CONNECTED TO THE TOP AND BOTTOM TRACKS.

10. STEEL STRUCTURAL STUD TRACK OF THE SAME GAUGE AS THE STUDS SHALL BE USED AT THE TOP AND BOTTOM OF ALL STUD WALLS UNLESS NOTED OTHERWISE. STUDS SHALL BE INSTALLED SIT FLAT AGAINST THE WEB OF THE STUD TRACK AND BE ATTACHED WITH 1-#8 X 5/8" SCREW EACH SIDE OF EACH STUD.

11. WEB PUNCH-OUTS SHOULD BE COORDINATED WITH BRACING AND UTILITY REQUIREMENTS. WEB PUNCH-OUTS OR WEB OPENINGS SHALL BE LOCATED A MINIMUM OF 6" OR MEMBER DEPTH, WHICHEVER IS GREATER, FROM STUD OR JOIST BEARING POINTS.

12. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS, OR AS REQUIRED FOR AN ANGUL

STRUCTURAL STEEL

1. ALL ASPECTS OF WORK RELATING TO THE DESIGN, FABRICATION, DETAILING, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:

   CURRENT EDITION OF THE AISC STEEL CONSTRUCTION MANUAL LATEST EDITION OF THE ANSI/AWS D1.1

2. STRUCTURAL STEEL MATERIALS SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:

WIDE FLANGE, CHANNELS	ASTM A992
ANGLES, PLATES, BARS	ASTM A572 GR 50
PIPES	ASTM A53 GR B
HSS (RECTANGULAR OR SQUARE)	ASTM A500 GR B (Fy = 46 KSI) OR GR C (Fy = 50 KSI)
HSS (ROUND)	ASTM A500 GR B (Fy = 42 KSI) OR GR C (Fy = 50 KSI)
ANCHOR RODS	ASTM F1554-36 U.N.O
HIGH STRENGTH BOLTS	ASTM F3125 GR A325 OR GR F1852 U.N.O.
HEADED STUD ANCHORS (HSA)	ASTM A108
DEFORMED BAR ANCHORS (DBA)	ASTM A496

3. THE DESIGN OF ALL STEEL CONNECTIONS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED, EMPLOYED BY THE FABRICATOR. CALCULATIONS SEALED BY THE FABRICATOR'S PROFESSIONAL ENGINEER MUST BE SUBMITTED IF REQUESTED.

4. SURFACES WHICH ARE TO BE FIREPROOFED WITH SPRAY-ON FIREPROOFING OR EMBEDDED IN CONCRETE SHALL NOT BE SHOP PAINTED. DO NOT PAINT TOP FLANGES OF COMPOSITE BEAMS NOR SURFACES OF MEMBERS WHERE WELDING OR HIGH STRENGTH FRICTION BOLTING WILL OCCUR. COORDINATE ALL SHOP PAINTING OF STRUCTURAL STEEL WITH ARCHITECT'S PAINTING REQUIREMENTS AS SPECIFIED ON THE ARCHITECTURAL DRAWINGS AND IN THE SPECIFICATIONS.

5. IT IS THE INTENTION OF THE PLANS AND SPECIFICATIONS THAT SHOP CONNECTIONS BE WELDED OR BOLTED AND THAT FIELD CONNECTIONS BE BOLTED, UNLESS DETAILED OTHERWISE ON THE DRAWINGS.

6. ALL TYPICAL BEAM SIMPLE CONNECTIONS SHALL BE STANDARD DOUBLE ANGLE OR SINGLE ANGLE FRAMED BEAM CONNECTIONS UNLESS NOTED OTHERWISE. SHEAR TAB CONNECTIONS MAY BE USED AT LOCATIONS WHERE DOUBLE ANGLE CONNECTIONS ARE NOT POSSIBLE. SEATED BEAM CONNECTIONS SHALL NOT BE USED UNLESS INDICATED ON THE DRAWINGS. PROVIDE FULL DEPTH SHEAR TAB IF BEAM FRAMES ON ONLY ONE SIDE OF A GIRDER.

7. DESIGN CONNECTIONS OF NON-COMPOSITE BEAMS TO SUPPORT A REACTION R (UNLESS SPECIFIED OTHERWISE) EQUAL TO ONE HALF THE TOTAL UNIFORM LOAD CAPACITY FROM THE TABLE OF UNIFORM LOAD CONSTANTS IN THE AISC MANUAL.

8. BEAM CONNECTIONS FOR COMPOSITE BEAMS SHALL BE DESIGNED FOR REACTIONS LISTED IN THE TABLE BELOW. ALL VALUES LISTED IN THE TABLE ARE LOAD RESISTANCE FACTOR DESIGN (LRFD).

BEAM SIZE	REACTION	BEAM SIZE	REACTION
W10	30 KIPS	W16	80 KIPS
W12	40 KIPS	W18	100 KIPS
W14	50 KIPS	W21	120 KIPS
W16	80 KIPS	W24	140 KIPS

9. ADD TO THE REACTION LISTED ABOVE, ANY LOADS OR REACTIONS OF MEMBERS SUPPORTED BY THE BEAM WITHIN THREE FEET OF BEAM END AND THE VERTICAL COMPONENTS OF FORCES IN BRACE MEMBERS FRAMING INTO THE BEAMS.

10. BRACING CONNECTIONS SHALL DEVELOP FULL TENSILE FORCES AT EACH END OF THE BRACING MEMBER UNLESS BRACING FORCES ARE SPECIFIED ON THE DRAWINGS.

11. ALL WELDING SHALL COMPLY TO THE AMERICAN WELDING SOCIETY STANDARD (AWS D1.1). ALL WELDED JOINTS SHALL BE DETAILED AS INDICATED BY THE PREQUALIFIED JOINT DETAILS IN THE STRUCTURAL WELDING CODE. WELD LENGTHS CALLED FOR ON THE PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WELD SIZE SHALL BE AISC MINIMUM UNLESS A LARGER SIZE IS NOTED. ALL WELDS SHALL USE MINIMUM E70XX ELECTRODES.

12. ALL WELDING SHALL BE PERFORMED BY A WELDER CERTIFIED IN ACCORDANCE WITH THE AWS STANDARDS.

13. MISCELLANEOUS STEEL CONNECTIONS SHALL BE WELDED ALL AROUND WITH AISC MINIMUM FILLET WELD UNLESS A LARGER WELD IS SPECIFIED. STEEL MEMBERS CONTINUOUSLY ATTACHED SHALL BE STITCH WELDED TOGETHER WITH AISC MINIMUM 2" LONG FILLET WELD AT 12" O.C. UNLESS A LARGER WELD OR DIFFERENT GAGE IS SPECIFIED.

14. ALL BOLTS SHALL BE DESIGNED AS BEARING BOLTS WITH THREADS INCLUDED IN THE SHEAR PLANE. ALL BOLTS SHALL BE NEW AND NOT RE-USED. BOLT HOLES IN STEEL SHALL BE 1/16 INCH LARGER THAN NOMINAL SIZE OF BOLT USED, EXCEPT ANCHOR ROD HOLES. MINIMUM BOLT DIAMETER SHALL BE 3/4 INCH. ALL BOLTS SHALL BE TIGHTENED TO A SNUG-TIGHT POSITION, EXCEPT AT BRACES, MOMENT CONNECTIONS AND CONNECTIONS MARKED AS SLIP CRITICAL (SC) SHALL BE TIGHTENED USING LOAD INDICATING WASHERS OR TENSION BOLTS.

15. SHEAR STUDS AND THEIR INSTALLATION SHALL MEET ALL REQUIREMENTS OF AWS D1.1. STUD DIAMETER AND LENGTH SHALL BE 3/4 INCH DIAMETER X 4-3/16 INCH LONG BEFORE WELDING. STUDS SHALL BE WELDED IN THE FIELD (NOT THE SHOP) USING AUTOMATICALLY TIMED STUD WELDING EQUIPMENT. THE TOP FLANGE OF THE BEAM MUST BE UNPAINTED AND FREE OF HEAVY RUST, MILL SCALE AND OTHER FOREIGN MATERIALS.

16. ALL STEEL EXPOSED TO WEATHER OR OUTSIDE THE BUILDING'S WATERPROOFING, SUCH AS BRICK SHELF ANGLES, SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION AS SPECIFIED BY THE STEEL STRUCTURES PAINTING COUNCIL (SSPC). THE ZINC COATING FOR STEEL SHAPES AND PLATES SHALL AVERAGE NOT LESS THAN 2.3 OZ. WITH NO INDIVIDUAL THICKNESS LESS THAN 2.0 OZ.

17. GALVANIZE ALL NUTS, BOLTS, AND WASHERS USED IN THE CONNECTION OF GALVANIZED STEEL.

18. GALVANIZED MEMBERS SHALL HAVE "Z.R.C. COLD GALVANIZING COMPOUND OR APPROVED EQUIVALENT APPLIED TO FIELD WELDED CONNECTIONS. SURFACE AREAS TO RECEIVE COLD GALVANIZING COMPOUND SHALL BE CLEAN OF DIRT AND DEBRIS PRIOR TO COMPOUND APPLICATION. SEE MANUFACTURER'S LITERATURE FOR ADDITIONAL RECOMMENDATIONS.

19. THE APPLICATION OF THE FIREPROOFING TO THE STEEL MEMBERS AND STEEL DECK IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MUST ENFORCE THE REQUIREMENTS OF THE MANUFACTURER AND NOT IMPOSE ADDITIONAL LOADS, INCLUDING CONSTRUCTION LIVE LOADS, DURING THE APPLICATION AND CURING OF THE FIREPROOFING.

20. IN ADDITION TO ALL OF THE STEEL INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL PROVIDE FOR AN ALLOWANCE OF A NET (2 1/2) TONS OF STEEL TO BE FURNISHED, FABRICATED, DETAILED, AND ERECTED DURING THE PROGRESSION OF WORK AS MAY BE DIRECTED BY THE ENGINEER OF RECORD.

21. THE CONTRACTOR SHALL MAKE AN ALLOWANCE FOR THE ADJUSTMENT AND DETAILING OF STEEL DURING THE SHOP DRAWING REVIEW PROCESS.

SUBMITTALS

1. THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS:

   CONCRETE MIX DESIGNS AND ACCESSORIES
   REINFORCING STEEL
   STRUCTURAL STEEL (*,^)
   METAL DECK
   MISCELLANEOUS STEEL
   STEEL STAIR (^,*)
   PRE-ENGINEERED METAL BUILDING (*,#)
   CURTAIN WALL (^,#)
   LIGHT-GAGE FRAMING (^,*)
   CONCRETE MASONRY (MATERIAL AND REBAR PLACEMENT PLANS)
   SLAB CONTRACTION JOINT LAYOUT

   ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A REGISTERED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. ITEMS MARKED (#) SHALL BE SUBMITTED TO ENGINEER FOR OWNER'S RECORD ONLY AND WILL NOT HAVE ENGINEER'S SHOP DRAWING STAMP. ITEMS MARKED (^) SHALL HAVE SEALED STRUCTURAL CALCULATIONS SUBMITTED TO ENGINEER FOR OWNER'S RECORD.

2. ALL SHOP DRAWINGS MUST BE REVIEWED AND SEALED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL.

3. CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES (E.G. PDFS) OF ALL SHOP DRAWINGS SPECIFIED TO BE RETURNED BY THE ENGINEER.

4. THE OMISSION FROM THE SHOP DRAWINGS OF ANY MATERIAL REQUIRED BY THE CONTRACT DOCUMENTS TO BE FURNISHED SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.

5. SUBMIT TWO COPIES OF MANUFACTURER'S LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION ON THE PROJECT.

6. THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREIN.

SPECIAL INSPECTION

1. ALL ASPECTS OF WORK RELATING TO SPECIAL INSPECTION SHALL CONFORM TO THE FOLLOWING CODES AND SPECIFICATIONS:

   2021 INTERNATIONAL BUILDING CODE (CHAPTER 17).

2. THE OWNER'S SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

3. PRIOR TO THE BEGINNING OF CONSTRUCTION, THE ARCHITECT (OR ENGINEER) SHALL CALL A PRE-CONSTRUCTION MEETING WITH THE ARCHITECT, ENGINEER, BUILDING OFFICIAL, CONTRACTOR AND SPECIAL INSPECTORS TO REVIEW THE SPECIAL INSPECTION REQUIREMENTS.

4. DUTIES OF THE OWNER'S SPECIAL INSPECTOR INCLUDE (BUT ARE NOT LIMITED TO):

   A. ACKNOWLEDGE THE SPECIAL INSPECTION AND TESTING AGREEMENT PROVIDED BY THE LOCAL JURISDICTION.

   B. THE OWNER'S SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND TO THE BUILDING OFFICIAL.

   C. THE OWNER'S SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, ARCHITECT, REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, CONTRACTOR AND (OTHER DESIGNATED PARTIES), IN A TIMELY MANNER, AS ESTABLISHED AT THE PRE-CONSTRUCTION MEETING.

   D. THE OWNER'S SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE INTERNATIONAL BUILDING CODE.

5. DUTIES OF THE CONTRACTOR INCLUDE (BUT ARE NOT LIMITED TO):

   A. NOTIFY THE SPECIAL INSPECTOR THAT THE WORK IS READY FOR INSPECTION AT LEAST 24 HOURS BEFORE SUCH INSPECTION.

   B. ALL WORK REQUIRING SPECIAL INSPECTION SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL IT HAS BEEN OBSERVED AND INDICATED TO BE IN CONFORMANCE BY THE SPECIAL INSPECTOR AND APPROVED BY THE BUILDING OFFICIAL.

   C. PROVIDE THE SPECIAL INSPECTOR WITH ACCESS TO APPROVED CONSTRUCTION DOCUMENTS AT JOBSITE.

   D. MAINTAIN AT THE JOBSITE COPIES OF ALL REPORTS SUBMITTED BY THE SPECIAL INSPECTOR.

6. CONTINUOUS SPECIAL INSPECTION REFERS TO INSPECTIONS BY THE SPECIAL INSPECTOR WHO IS CONTINUOUSLY PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.

7. PERIODIC SPECIAL INSPECTION REFERS TO INSPECTIONS BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.

8. SPECIAL INSPECTIONS AND TESTING SHALL BE REQUIRED FOR THE FOLLOWING TYPES OF WORK LISTED BELOW. SPECIAL INSPECTIONS AND TESTING SHALL FOLLOW THE REQUIREMENTS OF THE BUILDING AND MATERIAL CODE REFERENCES AND TABLES. IN THE EVENT OF A CONFLICT BETWEEN REFERENCES, THE OWNER'S SPECIAL INSPECTOR SHALL FOLLOW THE MORE STRINGENT REQUIREMENT.

SOILS	IBC 1705.6 AND TABLE 1705.6, APPROVED GEOTECHNICAL REPORT AND CONSTRUCTION DOCUMENTS
CAST-IN-PLACE FOUNDATIONS	IBC 1705.8 AND TABLE 1705.8 APPROVED GEOTECHNICAL REPORT AND CONSTRUCTION DOCUMENTS
CONCRETE	IBC 1705.3 AND TABLE 1705.3
STEEL	IBC 1705.2 AND TABLE 1705.2.3 AND AISC 360 CHAPTER N AND SDI QA/QC DOCUMENT
SHOP FABRICATION	IBC 1704.2.5 (NOT REQUIRED IF FABRICATOR IS APPROVED IN ACCORDANCE WITH IBC 1704.2.5.1.
MASONRY	IBC 1705.4, TMS 402/ACI 530/ASCE 5 SECTION 3.1 AND TABLE 3.1.2, TMS 602/ACI 530.1/ASCE 6 SECTION 1.6 AND TABLE 4
SPRAYED FIRE-RESISTANT MATERIALS	IBC 1705.15 AND CONSTRUCTION DOCUMENTS
MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS	IBC 1705.16 AND AWCI 12-B AND CONSTRUCTION DOCUMENTS
EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)	IBC 1705.17
EXPANSION/EPOXY ANCHORS	MANUFACTURER'S ICC REPORT

ABBREVIATIONS

ABBR.	ABBREVIATION
A.F.F.	ABOVE FINISH FLOOR
ADDN'L	ADDITIONAL
AHU	AIR HANDLING UNIT
ALT.	ALTERNATE
ANCH.	ANCHOR
A.B.	ANCHOR BOLT
A.R.	ANCHOR ROD
APPROX.	APPROXIMATELY
ARCH.	ARCHITECT(URAL)
BM.	BEAM
BRG.	BEARING
BTW	BETWEEN
BOT.	BOTTOM
B.F.B.	BOTTOM FLANGE BRACE
B.O.	BOTTOM OF
BRDG.	BRIDGING
BLDG	BUILDING
C	CAMBER
CANT.	CANTILEVER
C.I.P.	CAST IN PLACE
C/C	CENTER TO CENTER
CL	CENTERLINE
CH	CHANNEL
CLR.	CLEAR(ANCE)
CFMF	COLD FORMED METAL FRAMING
COL.	COLUMN
CJP	COMPLETE JOINT PENETRATION
CONC.	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONN.	CONNECTION
CONST.	CONSTRUCTION
C.J.	CONSTRUCTION / CONTRACTION JOINT
CONT.	CONTINUOUS
COORD.	COORDINATE
DL	DEAD LOAD
DBA	DEFORM BAR ANCHOR
D	DEPTH
DET.	DETAIL
DIA. or Ø	DIAMETER
DIM.	DIMENSION
DWL.	DOWEL
D.N.	DOWN
DWG.	DRAWING
EA.	EACH
E.F.	EACH FACE
E.W.	EACH WAY
EL.	ELEVATION
ELEV.	ELEVATOR
EMBED.	EMBEDMENT
ENGR.	ENGINEER
EOR	ENGINEER OF RECORD
EQ.	EQUAL
EQUIP.	EQUIPMENT
EQUIV.	EQUIVALENT
EXIST.	EXISTING
E.J.	EXPANSION JOINT
EXT.	EXTERIOR
f'c=	28 DAY CONCRETE STRENGTH
FAB.	FABRICATE
F.S.	FAR SIDE
FIN	FINISH/FINISHED
FLR	FLOOR
F.D.	FLOOR DRAIN
FTG.	FOOTING
Fy=	YIELD STRENGTH
GALV.	GALVANIZED
GA.	GAUGE
GEN	GENERAL
G.C.	GENERAL CONTRACTOR
GFRC	GLASS FIBER REINFORCED CONCRETE
GR.	GRADE/GRADING
HGR.	HANGER
HSA	HEADED STUD ANCHOR
HI	HIGH
HSS	HOLLOW STRUCTURAL SECTION
HORIZ. OR (H)	HORIZONTAL
H	HORIZONTAL REACTION
IN	INCH
INFO.	INFORMATION
ID	INSIDE DIAMETER
I.F.	INSIDE FACE
INT.	INTERIOR
JT.	JOINT
JST.	JOIST
K	KIPS (1000 LBS)
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	ANGLE
Ld	DEVELOPMENT LENGTH
LWC	LIGHTWEIGHT CONCRETE
LL	LIVE LOAD
LLBB	LONG LEG BACK TO BACK
LLV	LONG LEG VERTICAL
LLH	LONG LGE HORIZONTAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LONG	LONGITUDINAL
LO	LOW
LBS	POUNDS
MFR. / MNFR.	MANUFACTURER
MAS.	MASONRY
MAX.	MAXIMUM

MECH.	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MTL.	METAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M	MOMENT
M.C.	MOMENT CONNECTION
N.S.	NEAR SIDE
NWC	NORMAL WEIGHT CONCRETE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO.	NUMBER
O.C.	ON CENTER(S)
OPNG.	OPENING
OPP.	OPPOSITE
OPH.	OPPOSITE HAND
OD	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OA	OVERALL
O.H.	OVERHEAD
OVS.	OVERSIZED HOLE
P	AXIAL LOAD
P.J.	PANEL JOINT
PAR.	PARALLEL
PRKG.	PARKING
PJP	PARTIAL JOINT PENETRATION
PVMT	PAVEMENT
PVG	PAVING
PERP.	PERPENDICULAR
PL.	PLATE
PLBG	PLUMBING
PT	POST-TENSION(ED)
PCF	POUNDS PER CUBIC FOOT/FEET
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT/FEET
PSI	POUNDS PER SQUARE INCH
P/C	PRECAST CONCRETE
PRELIM.	PRELIMINARY
P.L.	PROPERTY LINE
QTY	QUANTITY
R	RADIUS, REACTION, REMAINDER
REC.	RECESSED
RE:	REFER TO
REF.	REFERENCE
REINF.	REINFORCED / REINFORCING
REBAR	REINFORCING BAR
REQ'D	REQUIRED
REV.	REVISION
R.D.	ROOF DRAIN
RTU	ROOF TOP UNIT
SCHED.	SCHEDULE
SECT.	SECTION
SHT.	SHEET
SLBB	SHORT LEG BACK TO BACK
SIM.	SIMILAR
SC	SLIP CRITICAL, SHEAR CONNECTOR
SPA.	SPACING
SPEC.	SPECIFICATION
SQ.	SQUARE
SF.	SQUARE FOOT/FEET
STD	STANDARD
STL	STEEL
STIFF.	STIFFENER
STIR.	STIRRUP
STRUCT.	STRUCTURE/STRUCTURAL
TEMP.	TEMPERED
THK	THICK(NESS)
t	THICKNESS, TREAD
THD	THREADED
T.O.	TOP OF
T.O.C.	TOP OF CONCRETE
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PARAPET
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
VERT. OR (V)	VERTICAL
WT.	WEIGHT
WWR	WELD WIRE REINF.
WF	WIDE FLANGE
W	WIDTH
WL	WIND LOAD
W.P.	WORK POINT
XXS	DOUBLE EXTRA STRONG
XS	EXTRA STRONG
&	AND
≈	APPROXIMATELY EQUAL
@	AT
°	DEGREE
=	EQUAL
≥	GREATER THAN or EQUAL
≤	LESS THAN or EQUAL
#	NUMBER or POUNDS
/	PER
±	PLUS or MINUS
Ø	ROUND/DIAMETER

SYMBOLS LEGEND

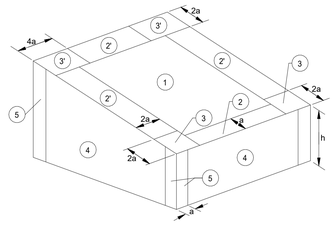
SYMBOLS	DESCRIPTION
N	NORTH ARROW
XX S-X.XX	ENLARGE FLOOR PLAN REFERENCE OR ENLARGE DETAIL REFERENCE
XX S-X.XX	DETAIL SECTION (STRUCTURAL)
XX/S-X.XX	BRACING ELEVATION
11 5/8" / 5"	DIMENSIONS
XX/S-X.XX / XX/S-X.XX	MATCHLINE
1	REVISION NUMBER & AFFECTED AREA
LEVEL NAME 0' - 0"	VERTICAL ELEVATION
EX: 152' - 6"	EXISTING ELEVATION
152' - 6"	NEW ELEVATION
	M.C. OR MOMENT CONNECTION
	DEPRESSION
	PANEL WALL TAG
12/36 BELL DIAMETER (IN) / SHAFT DIAMETER (IN)	BELLED PIER
P1	PILE SHAFT
F3	FOOTING

STRUCTURAL SHEET INDEX

SHEET NUMBER	SHEET NAME	Current Revision
S1.01	GENERAL NOTES	
S1.02	GENERAL NOTES	
S2.00	FOUNDATION PLAN - OVERALL	
S2.01	MECHANICAL PLATFORM FRAMING PLAN - OVERALL	
S3.1	TYPICAL FOUNDATION DETAILS	
S3.2	TYPICAL FOUNDATION DETAILS	
S3.3	TYPICAL FOUNDATION DETAILS	
S3.4	TYPICAL FOUNDATION DETAILS	
S3.5	TYPICAL FOUNDATION DETAILS	
S4.1	TYPICAL FLOOR DETAILS	
S4.2	TYPICAL FLOOR DETAILS	
S5.1	TYPICAL CMU WALL AND CANOPY DETAILS	
Grand total: 12		

ROOF PRESSURE (GROSS)						
ZONE	0-10 SQ. FT.	20 SQ. FT.	50 SQ. FT.	100 SQ. FT.	500 SQ. FT.	>1000 SQ. FT.
1	+18, -48	+17, -48	+16, -48	+16, -48	+16, -48	+16, -46
2	+18, -55	+17, -48	+16, -53	+16, -52	+16, -52	+16, -50
3	+18, -74	+17, -67	+16, -58	+16, -52	+16, -52	+16, -50
2'	+18, -104	+17, -93	+16, -78	+16, -67	+16, -67	+16, -64
3'	+18, -104	+17, -93	+16, -78	+16, -67	+16, -67	+16, -64

WALL PRESSURE						
ZONE	0-10 SQ. FT.	20 SQ. FT.	50 SQ. FT.	100 SQ. FT.	500 SQ. FT.	>1000 SQ. FT.
4	+40, -44	+39, -42	+36, -40	+36, -38	+30, -34	+30, -34
5	+40, -54	+39, -50	+36, -46	+35, -42	+30, -34	+30, -34



NOTES:
1. (0-10 SQ. FT.) EXAMPLE DENOTES EFFECTIVE WIND AREA.
2. + AND - SIGNS SIGNIFY PRESSURES ACTING TOWARD OR AWAY FROM THE SURFACES, RESPECTIVELY. ALL VALUES SHOWN ARE IN PSF.
3. WIND PRESSURE FOR EFFECTIVE WIND AREAS BETWEEN THE SPECIFIED RANGES MAY BE DETERMINED BY INTERPOLATION, OTHERWISE, USE THE VALUE ASSOCIATED WITH THE LOWER EFFECTIVE AREA.
4. h = EAVE HEIGHT.
5. ELEMENTS WITH TRIBUTARY AREAS GREATER THAN 700 SQ. FEET MAY BE DESIGNED USING MWFRS PROVISIONS.
6. VALUES SHOWN ARE BASED ON IBC 2021 / ASCE 7-16 WIND CALCULATIONS FOR COMPONENTS AND CLADDING AND ARE ULTIMATE VALUES (LRFD). VALUES SHOWN ARE FOR USE IN ASCE 7-16 LOAD COMBINATIONS SHOWN IN SECTION 2.3.1 (1.0W).
7. THE BUILDING LAYOUT SHOWN IS INTENDED TO BE SCHEMATIC, APPLY WIND PRESSURE PROVIDED SIMILARLY TO THE BUILDING(S) AT THIS PROJECT.
8. UNLESS OTHERWISE SPECIFIED, ROOF DEAD LOAD TO BE USED FOR NET UPLIFT CALCULATIONS SHALL NOT EXCEED 5 PSF. NET UPLIFT PRESSURE SHALL NOT BE LESS THAN 16 PSF.

COMPONENTS & CLADDING PRESSURES

ASCE Hazards Report

Address: 1733 Katyland Dr, Katy, Texas 77493
Standard: ASCE/SEI 7-16
Risk Category: III
Soil Class: D - Stiff Soil
Latitude: 29.798041
Longitude: -95.811107
Elevation: 139.98540189751174 ft (NAVD 88)





Wind

Results:

Wind Speed	140 Vmph
10-year MRI	76 Vmph
25-year MRI	88 Vmph
50-year MRI	99 Vmph
100-year MRI	109 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1C and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Fri Jan 30 2026

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 3% probability of exceedance in 50 years (annual exceedance probability = 0.000588, MRI = 1,700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

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STATE OF TEXAS — KHALIL TABAJA — 117126 — LICENSED — PROFESSIONAL ENGINEER
05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Director
Proj. Arch.
Designer KT
Drawn By TH

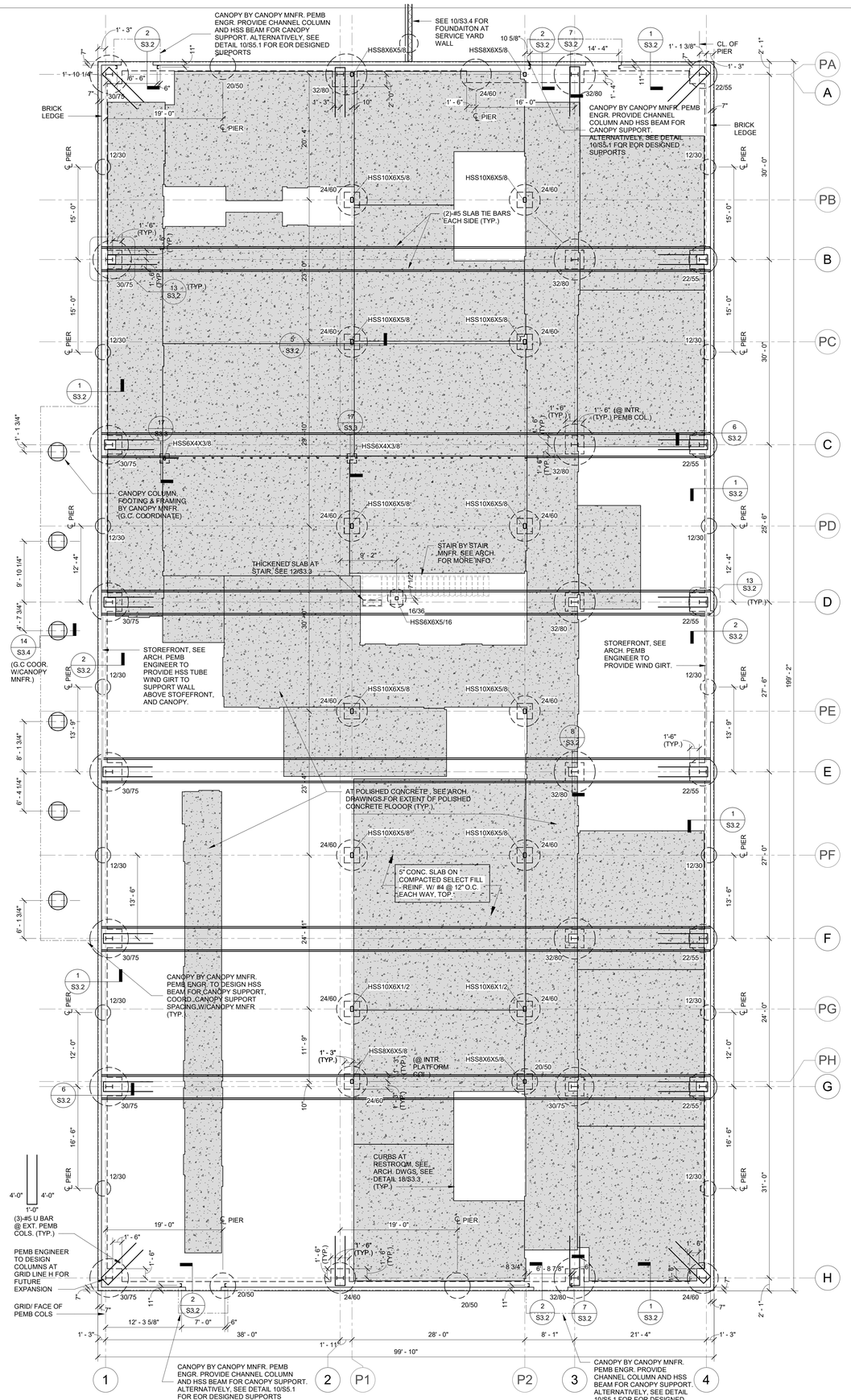
PROJECT NO.
25-0067.00

SHEET TITLE
GENERAL NOTES

SHEET NO.
S1.02

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1 FOUNDATION PLAN - OVERALL
SCALE: 1/8" = 1'-0"

PEMB FOUNDATION PLAN NOTES:

1. ALL PIERS ARE CENTERED UNDER COLUMN CENTERLINES, U.N.O.
2. PIERS UNDER GRADE BEAM (WITHOUT COLUMNS) SHALL BE CENTERED UNDER GRADE BEAMS, U.N.O.
3. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FLOOR SLOPES, DEPRESSIONS, ETC.
4. COORDINATE ALL BRICK LEDGES AND DEPTH WITH ARCHITECTURAL DRAWINGS.
5. LOCATIONS NOTED THUS: 0' - 0" (143.30', VERIFY WITH CIVIL) INDICATES TOP OF SLAB ELEVATION.
6. SEE PEMB FOR BASE PLATE INFORMATION.
7. REFER TO PEMB FOR SIZE, LOCATION AND ORIENTATION OF ALL COLUMNS, ANCHOR BOLTS. NOTIFY ARCH. OF ANY DISCREPANCIES BETWEEN PLANS FOR RESOLUTION PRIOR TO FABRICATION AND INSTALLATION.
8. SEE 10/S3.3, 7/S3.3 & S/S3.3 FOR ADDITIONAL REBAR AT OPENINGS, DISCONTINUOUS JOINTS, AND RE-ENTRANT CORNERS IN SLAB-ON-GRADE.
9. PROVIDE CONTRACTION JOINTS AND DISCONTINUOUS SLAB REINFORCING AS SHOWN IN DETAIL 6/S3.3 & 7/S3.3.
10. REFER TO MEP FOR SLOPE - INVERT ELEVATION (I.E.) AT DRAINS.
11. TYPICAL SLOPE AT FLOOR IS 1/8" PER FOOT, U.N.O. ON ARCH.
12. PROVIDE (3)-#3X4'-0" TOP & BOT. AT ALL RE-ENTRANT CORNERS AT SLAB ON GRADE. TOP REINFORCING SHALL BE PLACED AT 1 1/4" CLEAR FROM THE TOP OF THE SLAB.
13. ——► WHERE SHOWN ON PLAN INDICATES SLOPE DIRECTION. SEE ARCH. FOR INFORMATION.
14. ALL COLUMN LOCATIONS SHOWN AND ASSOCIATED FOUNDATIONS ARE PLACEHOLDERS IN THE ABSENCE OF A COMPLETE METAL BUILDING DESIGN SUBMITTAL. SEE GENERAL NOTES FOR SUBMITTAL REQUIREMENTS.
15. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF POLISHED CONCRETE FLOOR.

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117126
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PROFESSIONAL ENGINEER
05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

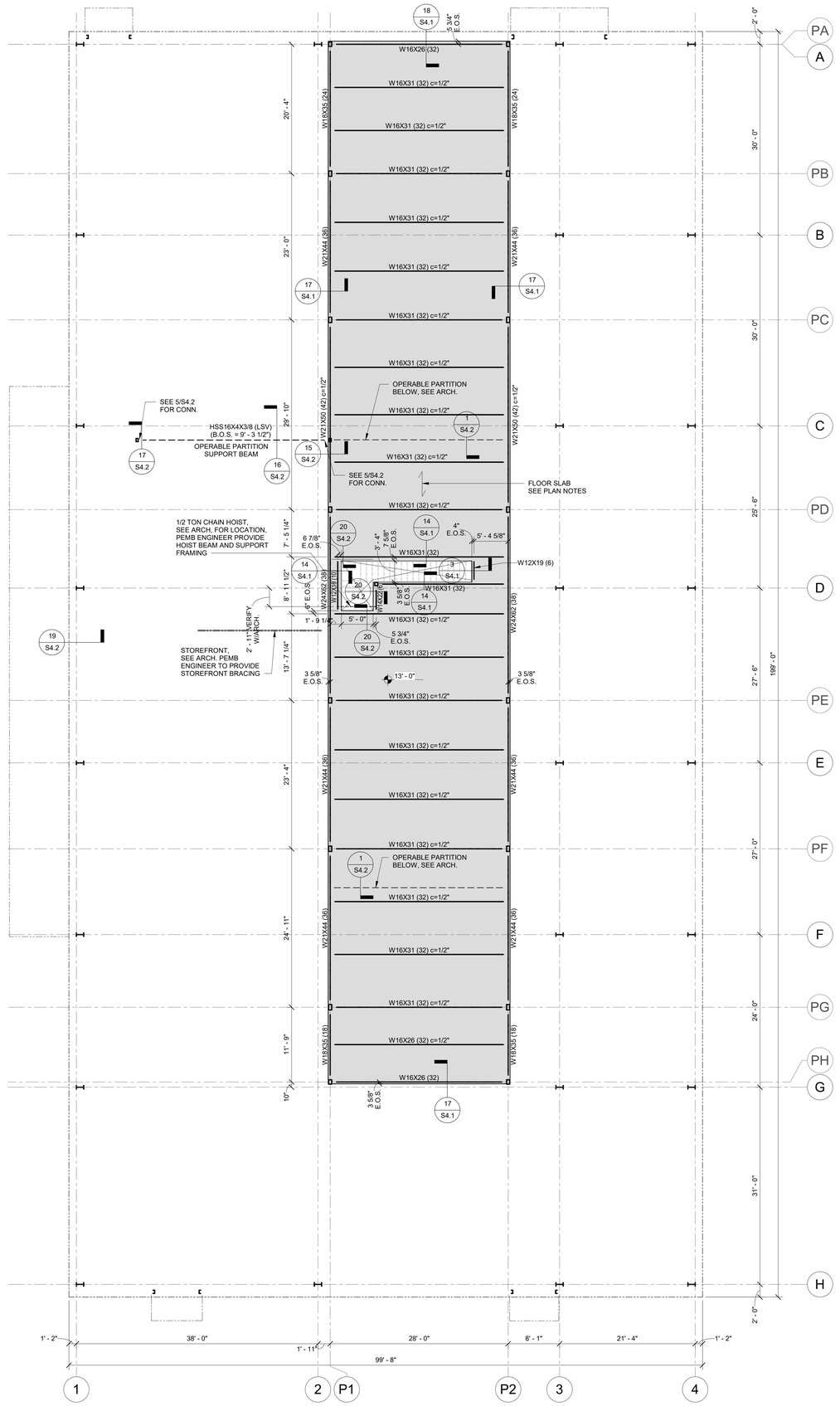
Director
Proj. Arch.
Designer KT
Drawn By TH

PROJECT NO.
25-0067.00

SHEET TITLE
FOUNDATION PLAN - OVERALL

SHEET NO.
S2.00

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1 MECHANICAL PLATFORM FRAMING PLAN - OVERALL
SCALE: 1/8" = 1'-0"

FLOOR FRAMING PLAN NOTES:

1. TOP OF CONCRETE ELEVATION = 113' - 0"
2. LOCATIONS SHOWN THUS: (12) C=3/4" INDICATES NUMBER OF SHEAR CONNECTORS AS 12 AND UPWARD CAMBER AT MID SPAN OF BEAM AS 3/4".
3. SPACE BEAMS EQUALLY U.N.O.
4. PROVIDE END PLATES AT ALL TUBE BEAMS.
5. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION / CONSTRUCTION.
6. ALL LOWER TUBE BEAM ELEVATIONS TO BE VERIFIED WITH ARCHITECT DRAWINGS.
7. FLOOR SHALL BE 3 1/2" NORMAL WEIGHT CONCRETE OVER THE FLUTES OF 2" x 18 GA TYPE VLI STEEL DECK AS MANUFACTURED BY VULCRAFT OR APPROVED EQUIVALENT TO TOTAL THICKNESS = 5 1/2". REINFORCE CONCRETE WITH #3 AT 18" O.C. EACH WAY. PLACE REBAR PERPENDICULAR TO BEAMS (PARALLEL TO DECK) IN THE OUTSIDE LAYER. WELD DECK USING 5/8"Ø NET EFFECTIVE PUDDLE WELDS:
   a. PERPENDICULAR BEARING : 36/4 PATTERN.
   b. PARALLEL BEARING AND EDGE : AT 12" O.C.
   c. SIDE SEAMS : SEAM WELDS AT 12" O.C.
8. SEE 19/4.1 FOR ADDITIONAL SLAB REINFORCING AT ALL BEAMS & GIRDERS.
9. SEE 13/S4.1 & 20/S4.1 FOR ADDITIONAL SLAB REINFORCING AT OPENINGS AND EDGES.
10. SEE 7/S4.1 FOR ADDITIONAL STEEL ANGLES AND REINFORCING AT STEEL COLUMNS.
11. AT SLOPED FLOOR LOCATIONS ON ELEVATED FLOORS WHERE OVERALL SLAB THICKNESS IS LESS THAN 5 1/2", SPRAY FIREPROOFING SHALL BE APPLIED TO THE UNDERSIDE OF THE DECK IN SLOPED AREA TO MEET REQUIRED FIRE RATING. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE RATING.
12. IN LIUE OF THE CRITERIA PROVIDE WITHIN THE GENERAL NOTES, THE FABRICATOR MAY DESIGN THE BEAM CONNECTIONS AT THIS FLOOR LEVEL FOR THE ULTIMATE STRENGTH DESIGN (LRFD) SHEAR REACTIONS SHOWN IN THE CHART BELOW. THIS CHART DOES NOT APPLY TO ANY BEAMS AT MOMENT CONNECTIONS OR BRACE FRAMES. WHERE BEAMS SHOWN ON PLAN AREA NOT INDICATED IN CHART. APPLY CRITERIA IN THE GENERAL NOTES.

BEAM SIZE @ 2ND LEVEL	FACTORED END REACTION (kips)
W12	20
W14	25
W16	60
W18	60
W21	80
W24	80

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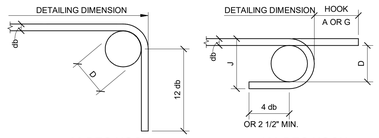
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Designer KT
Drawn By TH

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25-0067.00

SHEET TITLE
MECHANICAL PLATFORM FRAMING PLAN - OVERALL

SHEET NO.
S2.01

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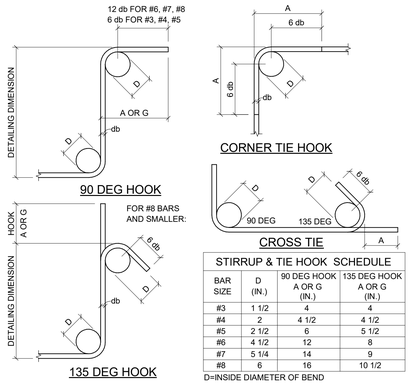
90 DEG HOOK 180 DEG HOOK

RECOMMENDED END HOOKS, ALL GRADES				
BAR SIZE	FINISHED BEND DIAMETER D, (IN.)	180 DEG HOOKS		90 DEG HOOKS
		A OR G, (IN.)	J, (IN.)	A OR G, (IN.)
#3	2 1/4	5	3	6
#4	3	6	4	8
#5	3 3/4	7	5	10
#6	4 1/2	8	6	12
#7	5 1/4	10	7	14
#8	6	11	8	16
#9	9 1/2	15	11 3/4	19
#10	10 3/4	17	13 1/4	22
#11	12	19	14 3/4	24
#14	18 1/4	27	21 3/4	31
#18	24	36	28 1/2	41

D = INSIDE DIAMETER OF BEND

TYPICAL DETAIL END HOOK TYPES

20 SCALE: N.T.S.

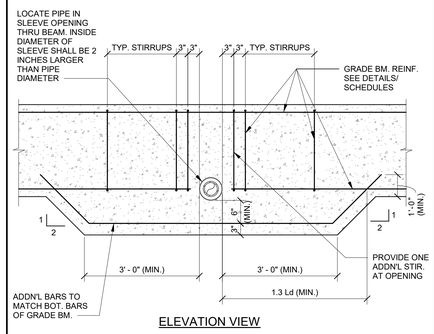


STIRRUP & TIE HOOK SCHEDULE			
BAR SIZE	D (IN.)	90 DEG HOOK A OR G (IN.)	135 DEG HOOK A OR G (IN.)
#3	1 1/2	4	4
#4	2	4 1/2	4 1/2
#5	2 1/2	6	5 1/2
#6	4 1/2	12	8
#7	5 1/4	14	9
#8	6	16	10 1/2

D=INSIDE DIAMETER OF BEND

TYPICAL DETAIL STIRRUP AND TIE HOOK TYPES

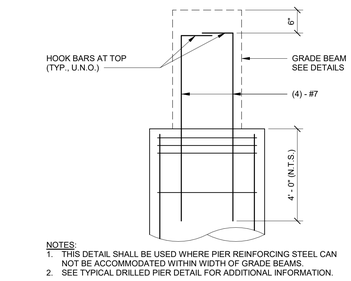
16 SCALE: N.T.S.



ELEVATION VIEW

TYPICAL DETAIL OPENING THRU GRADE BEAM THAT CONFLICTS WITH BOTTOM REINFORCEMENT

8 SCALE: N.T.S.



NOTES:
1. THIS DETAIL SHALL BE USED WHERE PIER REINFORCING STEEL CAN NOT BE ACCOMMODATED WITHIN WIDTH OF GRADE BEAMS.
2. SEE TYPICAL DRILLED PIER DETAIL FOR ADDITIONAL INFORMATION.

TYPICAL DETAIL SHAFT SIZE LARGER THAN GRADE BEAM WIDTH

4 SCALE: N.T.S.

DEVELOPMENT LENGTHS OF STANDARD HOOKS IN TENSION
GRADE 60 (UNCOATED) REINFORCEMENT
(NORMAL WEIGHT CONCRETE)

BAR SIZE	F'c = 3000		F'c = 4000		F'c = 5000		F'c = 6000		F'c = 7000		F'c = 8000		F'c = 9000		F'c = 10000	
	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb	Lhb	0.7Lhb
#3	9	6	8	6	7	6	6	6	6	6	6	6	6	6	6	6
#4	11	8	10	7	9	6	8	6	8	6	7	6	7	6	6	6
#5	14	10	12	9	11	8	10	7	9	7	9	6	8	6	8	6
#6	17	12	15	10	13	9	12	9	11	8	11	8	10	7	9	7
#7	20	14	17	12	15	11	14	10	13	9	12	9	12	8	11	8
#8	22	16	19	14	17	12	16	11	15	11	14	10	13	9	12	9
#9	25	18	22	15	20	14	18	13	17	12	16	11	15	10	14	10
#10	28	20	25	17	22	16	20	14	19	13	18	12	17	12	16	11
#11	31	22	27	19	24	17	22	16	21	15	19	14	18	13	17	12

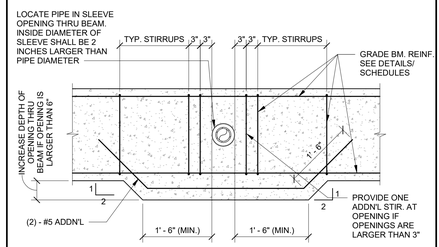
90° HOOKS 180° HOOKS



NOTES:
1. ALL LENGTHS SHOWN IN THE TABLE ARE IN INCHES.
2. Lhb = TENSION DEVELOPMENT LENGTH.
3. Ldh = Lhb, UNLESS CONDITIONS OF ITEM 4 ARE SATISFIED.
4. Ldh = 0.7 Lhb, WHEN SIDE COVER NORMAL TO PLANE OF HOOK IS NOT LESS THAN 2 1/2 INCHES AND FOR 90° HOOK, COVER ON BAR EXTENSION BEYOND HOOK SHALL NOT BE LESS THAN 2 INCHES.
5. HOOKS SHALL NOT BE CONSIDERED EFFECTIVE IN DEVELOPING BARS IN COMPRESSION.

TYPICAL DETAIL DEVELOPMENT LENGTH OF STANDARD HOOKS IN TENSION (NORMAL WEIGHT CONCRETE)

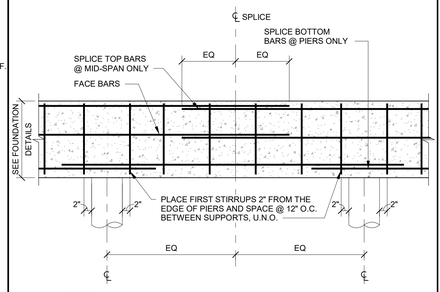
19 SCALE: N.T.S.



ELEVATION OF GRADE BEAM

TYPICAL DETAIL OPENING THRU GRADE BEAM

7 SCALE: N.T.S.



NOTES:
1. SLAB STEEL NOT SHOWN FOR CLARITY.
2. SEE TYPICAL DETAIL "TENSION DEVELOPMENT AND SPLICE LENGTH" FOR SPLICE DIMENSION.

TYPICAL DETAIL BEAM REINFORCING SPLICE DETAIL

3 SCALE:N.T.S.

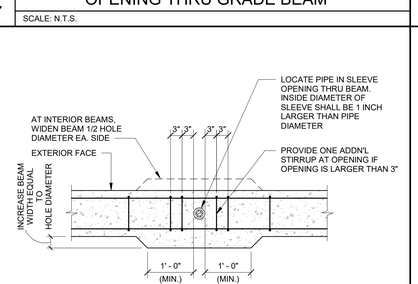
COMPRESSION DEVELOPMENT LENGTHS
AND COMPRESSION LAP SPLICE LENGTHS
GRADE 60 (UNCOATED) REINFORCEMENT
(NORMAL WEIGHT CONCRETE)

BAR SIZE	F'c = 3000		F'c = 4000		F'c ≥ 5000		BAR SIZE
	Ldc	Splice	Ldc	Splice	Ldc	Splice	
#3	9	12	8	12	8	12	#3
#4	11	15	10	15	9	15	#4
#5	14	19	12	19	12	19	#5
#6	17	23	15	23	14	23	#6
#7	20	27	17	27	16	27	#7
#8	22	30	19	30	18	30	#8
#9	25	34	22	34	21	34	#9
#10	28	39	25	39	23	39	#10
#11	31	43	27	43	26	43	#11
#14	38	51	33	51	31	51	#14
#18	50	68	43	68	41	68	#18

NOTES:
1. ALL LENGTHS SHOWN IN THE TABLE ARE IN INCHES.
2. Ldc = COMPRESSION DEVELOPMENT LENGTH.
3. THE ABOVE TABLE IS VALID FOR
   a. BEAMS AND COLUMNS WHERE CONCRETE COVER > = db, c/c BAR SPACING > = 2db AND WITH STIRRUPS OR TIES THROUGHOUT Ld NOT LESS THAN THE CODE MINIMUM.
   b. OTHER ELEMENTS SUCH AS SLABS, WALLS, ETC. WHERE CONCRETE COVER > = db, c/c BAR SPACING > = 3db.
4. WHEN BARS OF A DIFFERENT SIZE ARE LAP SPLICED IN COMPRESSION, SPLICE LENGTH SHALL BE THE LARGER OF Ldc OF THE LARGER BAR AND COMPRESSION LAP SPLICE LENGTH OF SMALLER BAR.
5. BARS SPLICED BY NON-CONTACT LAP SPLICES SHALL NOT BE SPACED TRANSVERSELY FARTHER APART THAN THE SMALLER OF ONE-FIFTH THE REQUIRED LAP SPLICE LENGTH AND 6 IN.

TYPICAL DETAIL COMPRESSION DEVELOPMENT AND SPLICE LENGTHS (NORMAL WEIGHT CONCRETE)

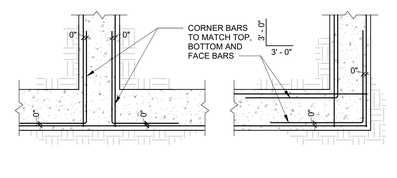
18 SCALE: N.T.S.



PLAN VIEW

TYPICAL DETAIL VERTICAL HOLE THRU GRADE BEAM LARGER THAN 3" DIAMETER

6 SCALE: N.T.S.



PLAN VIEW "T" INTERSECTION PLAN VIEW CORNER

TYPICAL DETAIL REINFORCEMENT STEEL CORNER AND INTERSECTION BARS

2 SCALE: N.T.S.

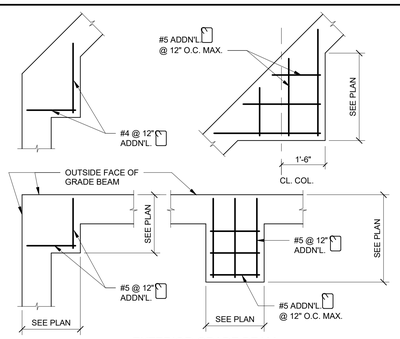
TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICE LENGTHS
GRADE 60 (UNCOATED) REINFORCEMENT
(NORMAL WEIGHT CONCRETE)

BAR SIZE	F'c = 3000		F'c = 4000		F'c = 5000		F'c = 6000		F'c = 7000		F'c = 8000		F'c = 9000		F'c = 10000	
	CLASS A 1.0Ld	CLASS B 1.3Ld	CLASS A 1.0Ld	CLASS B 1.3Ld	CLASS A 1.0Ld	CLASS B 1.3Ld	CLASS A 1.0Ld	CLASS B 1.3Ld	CLASS A 1.0Ld	CLASS B 1.3Ld	CLASS A 1.0Ld	CLASS B 1.3Ld	CLASS A 1.0Ld	CLASS B 1.3Ld	CLASS A 1.0Ld	CLASS B 1.3Ld
#3	17	22	15	19	13	17	12	16	12	16	12	16	12	16	12	16
#4	22	29	19	25	17	23	16	21	15	19	14	18	13	17	12	16
#5	28	36	24	31	22	28	20	26	18	24	17	22	16	21	15	20
#6	33	43	29	37	26	34	24	31	22	28	21	27	19	25	18	24
#7	48	63	42	54	38	49	34	45	32	41	30	39	28	36	27	35
#8	55	72	48	62	43	56	39	51	36	47	34	44	32	42	30	39
#9	62	81	54	70	48	63	44	57	41	53	38	50	36	47	34	44
#10	70	91	61	79	54	71	50	64	46	60	43	56	41	53	39	50
#11	78	101	67	87	60	78	55	71	51	66	48	62	45	58	43	55

NOTES:
1. ALL LENGTHS SHOWN IN THE TABLE ARE IN INCHES.
2. Ld = TENSION DEVELOPMENT LENGTH.
3. THE ABOVE TABLE IS VALID FOR
   a. BEAMS AND COLUMNS WHERE CONCRETE COVER > = db, c/c BAR SPACING > = 2db AND WITH STIRRUPS OR TIES THROUGHOUT Ld NOT LESS THAN THE CODE MINIMUM.
   b. OTHER ELEMENTS SUCH AS SLABS, WALLS, ETC. WHERE CONCRETE COVER > = db, c/c BAR SPACING > = 3db.
4. FOR TOP BARS, MULTIPLY THE SPLICE LENGTHS BY 1.30. TOP BARS REQUIRE A MINIMUM OF 12" OF FRESH CONCRETE BELOW BAR.
5. WHEN BARS OF A DIFFERENT SIZE ARE LAP SPLICED IN TENSION, SPLICE LENGTH SHALL BE THE LARGER OF Ld OF THE LARGER BAR AND COMPRESSION LAP SPLICE LENGTH OF SMALLER BAR.
6. BARS SPLICED BY NON-CONTACT LAP SPLICES SHALL NOT BE SPACED TRANSVERSELY FARTHER APART THAN THE SMALLER OF ONE-FIFTH THE REQUIRED LAP SPLICE LENGTH AND 6

TYPICAL DETAIL TENSION DEVELOPMENT AND SPLICE LENGTHS (NORMAL WEIGHT CONCRETE)

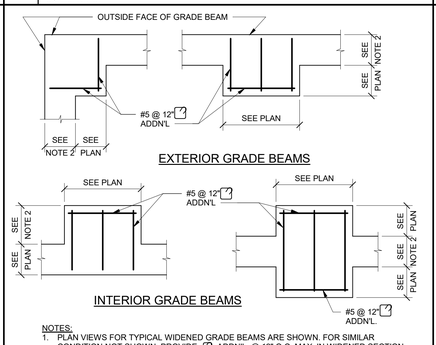
17 SCALE: N.T.S.



EXTERIOR GRADE BEAM

TYPICAL DETAIL ADDITIONAL BARS AT WIDENED GRADE BEAM (PLAN VIEW)

9 SCALE: N.T.S.



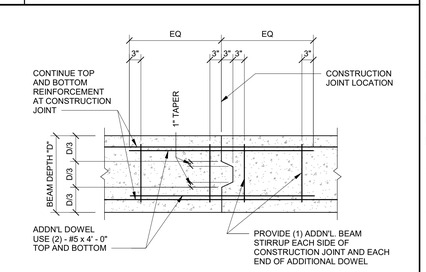
EXTERIOR GRADE BEAMS

INTERIOR GRADE BEAMS

NOTES:
1. PLAN VIEWS FOR TYPICAL WIDENED GRADE BEAMS ARE SHOWN. FOR SIMILAR CONDITION NOT SHOWN, PROVIDE (2) ADDN'L. @ 12" O.C. MAX. IN WIDENED SECTION.
2. SEE DETAIL SHEETS FOR GRADE BEAM WIDTH.

TYPICAL DETAIL ADDITIONAL BARS AT WIDENED GRADE BEAM (PLAN VIEW)

5 SCALE: N.T.S.



NOTES:
1. GENERAL CONTRACTOR SHALL SUBMIT DESIRED CONSTRUCTION JOINT LAYOUT AS A SHOP DRAWING FOR APPROVAL A MINIMUM OF TWO WEEKS PRIOR TO POUR.
2. CONSTRUCTION JOINT LOCATIONS SHALL BE COORDINATED WITH REINFORCING STEEL SUPPLIER AND ERECTOR.
3. JOINT LOCATIONS SHALL BE WITHIN TWO FEET EITHER SIDE OF BEAM MIDSPAN.
4. FOR JOINT LOCATIONS OTHER THAN WITHIN TWO FEET EITHER SIDE OF BEAM MIDSPAN, CONTRACTOR SHALL COORDINATE REQUIRED ADDITIONAL REINFORCEMENT WITH THE ENGINEER ON THE SHOP DRAWINGS.

TYPICAL DETAIL GRADE BEAM CONSTRUCTION JOINT

1 SCALE: N.T.S.

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05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Director
Proj. Arch.
Designer KT
Drawn By TH

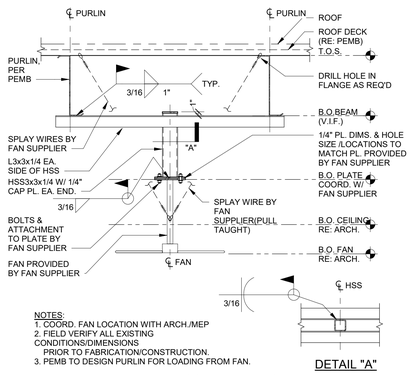
PROJECT NO.
25-0067.00

SHEET TITLE
TYPICAL FOUNDATION DETAILS

SHEET NO.
S3.1

NEW OPPORTUNITY AWARENESS CENTER

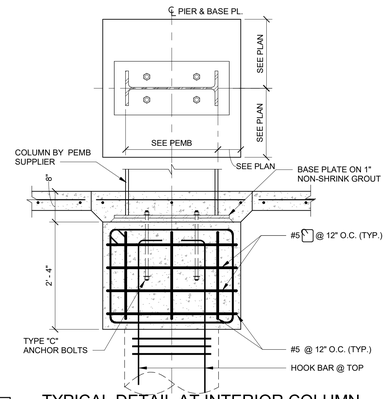
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NOTES:
1. COORD. FAN LOCATION WITH ARCH./MEP
2. FIELD VERIFY ALL EXISTING CONDITIONS/DIMENSIONS PRIOR TO FABRICATION/CONSTRUCTION.
3. PEMB TO DESIGN PURLIN FOR LOADING FROM FAN.

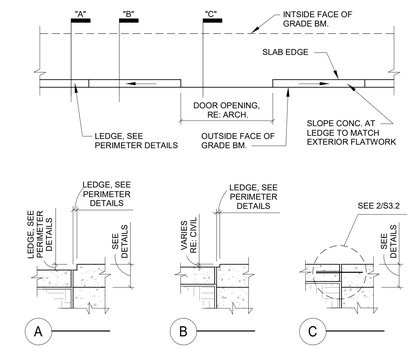
TYPICAL DETAIL
BIG ASS FAN AT PURLINS

16 SCALE: N.T.S.



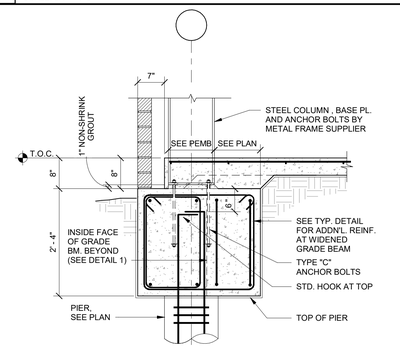
TYPICAL DETAIL AT INTERIOR COLUMN

8 SCALE: 3/4" = 1'-0"



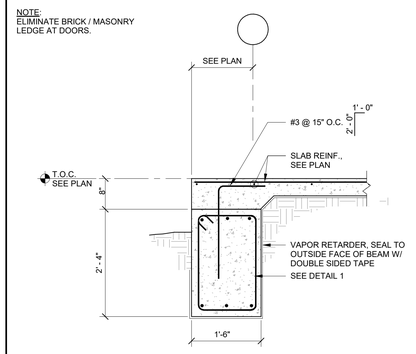
TYPICAL DETAIL
SLAB EDGE AT METAL PANEL AT DOORS

15 SCALE: 3/4" = 1'-0"



TYPICAL DETAIL WIDENED GRADE BEAM AT EXTERIOR PRE-ENGINEERED METAL BUILDING SIDE COLUMN

7 SCALE: 3/4" = 1'-0"

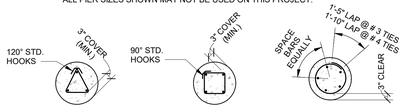


TYPICAL DETAIL
EXTERIOR GRADE BEAM

3 SCALE: 3/4" = 1'-0"

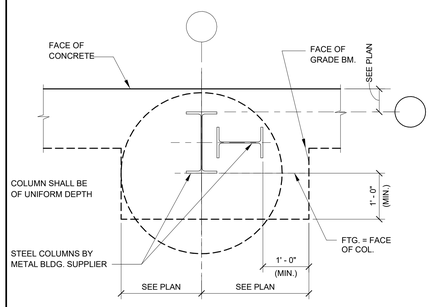
DRILLED PIER VERTICAL REINFORCEMENT SCHEDULE		
SHAFT DIAMETER (INCHES)	VERTICAL REINFORCEMENT	TIES (USE #3 @ 12" U.N.O.)
12	3 - #5	#3 @ 10"
14, 16	4 - #5	#3 @ 10"
18, 20	4 - #6	
22, 24, 26	5 - #7	
28, 30	5 - #8	
32, 36	5 - #9	

*ALL PIER SIZES SHOWN MAY NOT BE USED ON THIS PROJECT.



TYPICAL DETAIL
SHAFT BAR PLACEMENT PLANS

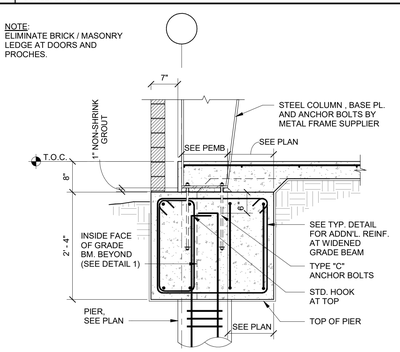
18 SCALE: N.T.S.



NOTE:
1. LOCATIONS OF PORTAL FRAMES ARE UNKNOWN UNTIL PEMB SHOP DRAWINGS ARE RECEIVED, G.C. TO COORDINATE LOCATIONS AND ADJUST PLINTH SIZES ACCORDINGLY

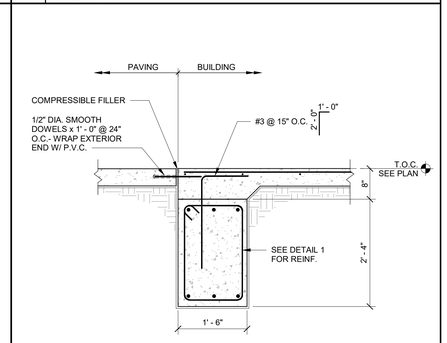
TYPICAL DETAIL
PLAN AT PORTAL FRAME

14 SCALE: 3/4" = 1'-0"



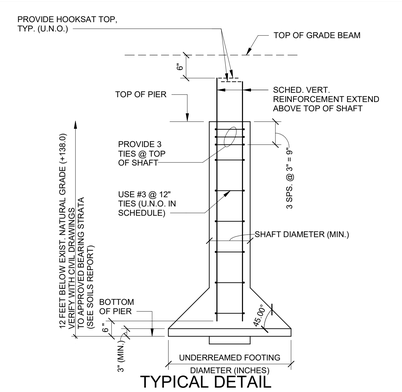
TYPICAL DETAIL
WIDENED GRADE BEAM AT EXTERIOR PRE-ENGINEERED METAL BUILDING COLUMN

6 SCALE: 3/4" = 1'-0"



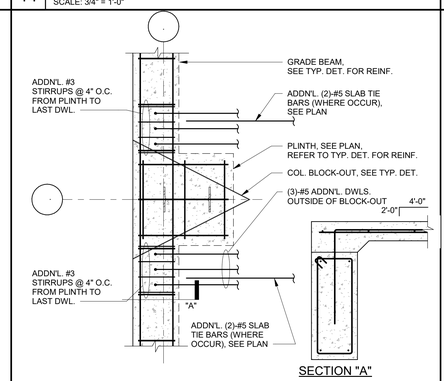
TYPICAL DETAIL
EXTERIOR GRADE BEAM AT DOORS/FLATWORK

2 SCALE: 3/4" = 1'-0"



TYPICAL DETAIL
DRILLED PIER

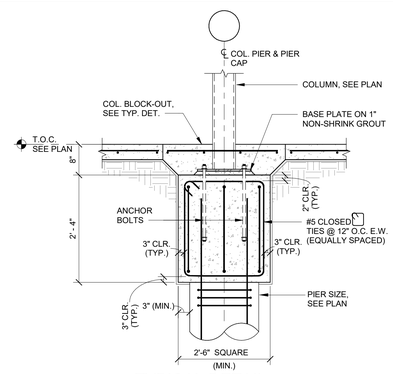
17 SCALE: N.T.S.



SECTION "A"

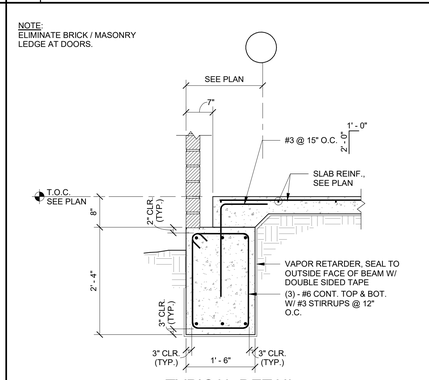
TYPICAL DETAIL ADDITIONAL REINFORCING AT PERIMETER COLUMNS

13 SCALE: 3/4" = 1'-0"



TYPICAL DETAIL
INTERIOR COLUMN WITH PIER CAP

5 SCALE: 3/4" = 1'-0"



TYPICAL DETAIL
EXTERIOR GRADE BEAM

1 SCALE: 3/4" = 1'-0"

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ISSUED: May 26, 2026

REVISIONS

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Director
Proj. Arch.
Designer KT
Drawn By TH

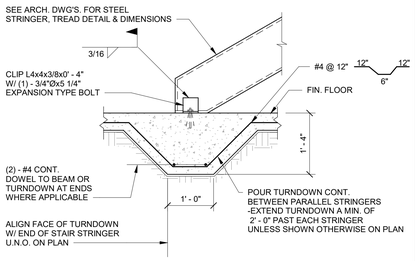
PROJECT NO.
25-0067.00

SHEET TITLE
TYPICAL FOUNDATION DETAILS

SHEET NO.
S3.2

NEW OPPORTUNITY AWARENESS CENTER

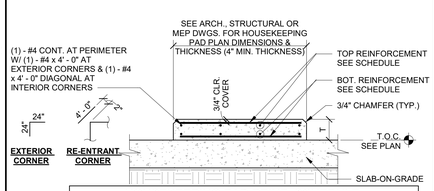
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NOTES:
1. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF STAIR STRINGER LOCATIONS WITH ARCHITECTURAL DRAWINGS & PROVIDE TURNDOWNS WHERE REQUIRED WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT.
2. CLIP ANGLE TO BE HIDDEN BENEATH FIRST TREAD. WHERE OPEN RISERS ARE USED, COORDINATE THE LOCATION WITH THE ARCHITECT.

TYPICAL DETAIL
TURNDOWN AT STEEL STAIR SLAB-ON-GRADE

12 SCALE: N.T.S.

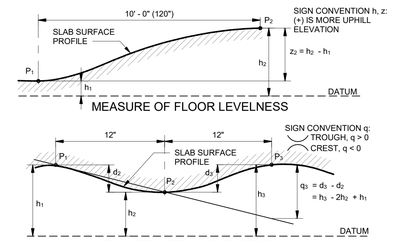


HOUSEKEEPING PAD REINF. SCHEDULE		
PAD THICKNESS	TOP REINFORCEMENT	BOTTOM REINF.
T ≤ 4"	WWR 4x4-W2.9xW2.9 OR #3 @12" E.W.	NONE
4" < T ≤ 6"	WWR 4x4-W4xW4 OR #4 @18" E.W.	NONE
6" < T ≤ 8"	WWR 4x4-W6xW6 OR #4 @12" E.W.	NONE
8" < T ≤ 12"	#4 @ 18" E.W.	#4 @ 18" E.W.
12" < T ≤ 16"	#4 @ 12" E.W.	#4 @ 12" E.W.

NOTES:
1. GENERAL CONTRACTOR TO COORDINATE WITH MECHANICAL DRAWINGS AND SPECIFICATIONS TO DETERMINE REQUIREMENTS FOR HOUSEKEEPING PADS OVER SLAB-ON-GRADE AND PROVIDE WHERE REQUIRED WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT. COORDINATE DIMENSIONS AND OTHER SPECIAL REQUIREMENTS WITH EQUIPMENT MANUFACTURERS AS REQUIRED.
2. PAD SHALL NOT BE POURED UNTIL AFTER SLAB HAS REACHED ITS SPECIFIED 28 DAYS STRENGTH.
3. CONCRETE FOR HOUSEKEEPING PAD SHALL BE NORMAL WEIGHT CONCRETE WITH f'c = 3,000 PSI.

TYPICAL DETAIL
CONCRETE ISLAND OR HOUSEKEEPING PAD SLAB-ON-GRADE

8 SCALE: N.T.S.



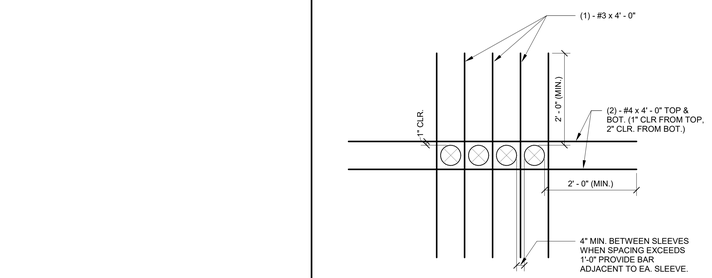
MEASURE OF FLOOR LEVELNESS

MEASURE OF FLOOR FLATNESS

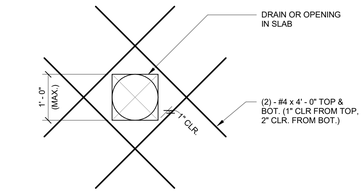
NOTES:
1. F_L = LEVELNESS F-NUMBER
   $F_L = \frac{12.5}{(3 \times S_Z) + Z}$ WHERE Z = MEAN VALUE OF ALL z FLOOR READINGS. S_Z = STANDARD DEVIATION OF ALL z FLOOR READINGS.
2. F_F = LEVELNESS F-NUMBER
   $F_F = \frac{4.57}{(3 \times S_Q) + Q}$ WHERE Q = MEAN VALUE OF ALL z FLOOR READINGS. S_Z = STANDARD DEVIATION OF ALL q FLOOR READINGS
3. F_L AND F_F SHALL BE STATISTICALLY DETERMINED ACCORDING TO ASTM E 1155 "STANDARD TEST METHOD FOR DETERMINING FLOOR FLATNESS AND LEVELNESS USING THE F-NUMBER SYSTEM."
4. REFER TO CONCRETE SPECIFICATIONS FOR REQUIRED F_F AND F_L VALUES.

TYPICAL DETAIL
SLAB SURFACE TOLERANCE

4 SCALE: N.T.S.



MULTIPLE OPENINGS (PIPE SLEEVES)

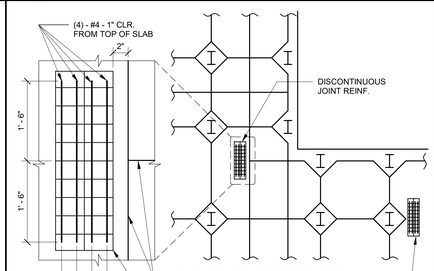


SINGLE DRAIN OR OPENING

NOTES:
1. COORDINATE OPENING SIZE AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. CONDUIT & PIPES OF ALUMINUM SHALL NOT BE PLACED IN CONCRETE UNLESS EFFECTIVELY COATED W/ PROTECTIVE MATERIAL TO PREVENT CHEMICAL REACTION.

TYPICAL DETAIL
ADDITIONAL REINFORCEMENT AT OPENINGS AT SLAB-ON-GRADE

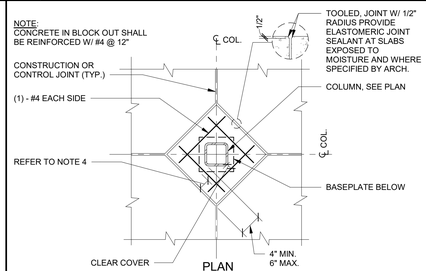
10 SCALE: N.T.S.



NOTE:
DISCONTINUOUS CONTRACTION OR CONSTRUCTION JOINTS SHOULD BE AVOIDED WHERE POSSIBLE.

TYPICAL DETAIL
ADDITIONAL REINFORCEMENT AT DISCONTINUOUS JOINT IN SLAB-ON-GRADE

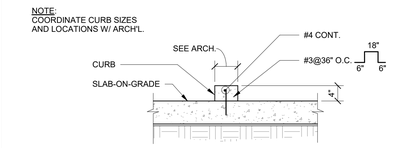
7 SCALE: N.T.S.



NOTES :
1. GENERAL CONTRACTOR TO COORDINATE REQUIRED SIZE OF BLOCK OUT FOR COLUMNS. SUBMIT THE DESIRED BLOCK-OUT SIZE TO ARCHITECT FOR APPROVAL.
2. PROVIDE 3" MINIMUM CONCRETE COVER ALL AROUND COLUMN.
3. BLOCKOUT SHALL BE SIZED TO PROVIDE 3" MINIMUM CONCRETE COVER ALL AROUND COLUMN AND BASE PLATE.
4. GENERAL CONTRACTOR TO INCREASE COLUMN BLOCK-OUT DIMENSIONS AS REQUIRED TO ACCOMMODATE GUSSET PLATES AT BRACE FRAMES.

TYPICAL DETAIL
BLOCK-OUT AROUND COLUMN (SLAB-ON-GRADE)

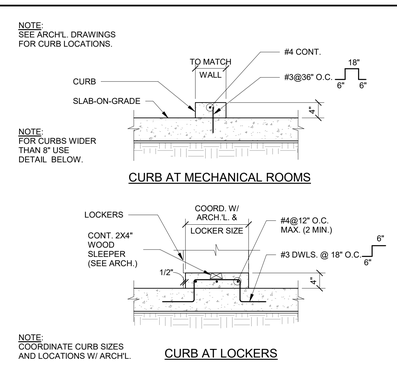
3 SCALE: N.T.S.



CURB AT RESTROOMS

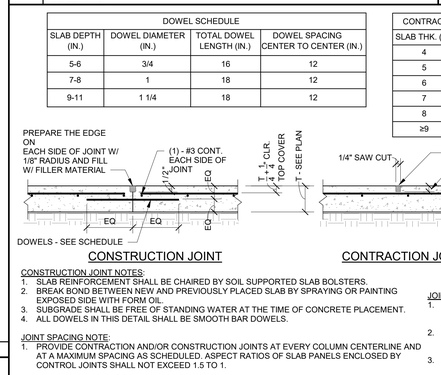
TYPICAL DETAIL
CURB AT RESTROOMS

18 SCALE: N.T.S.



TYPICAL DETAIL
CURB AT MECH. ROOMS AND LOCKERS

14 SCALE: N.T.S.



CONSTRUCTION JOINT NOTES:
1. SLAB REINFORCEMENT SHALL BE CHAIRED BY SOIL SUPPORTED SLAB BOLSTERS.
2. BREAK BOND BETWEEN NEW AND PREVIOUSLY PLACED SLAB BY SPRAYING OR PAINTING EXPOSED SIDE WITH FORM OIL.
3. SUBGRADE SHALL BE FREE OF STANDING WATER AT THE TIME OF CONCRETE PLACEMENT.
4. ALL DOWELS IN THIS DETAIL SHALL BE SMOOTH BAR DOWELS.

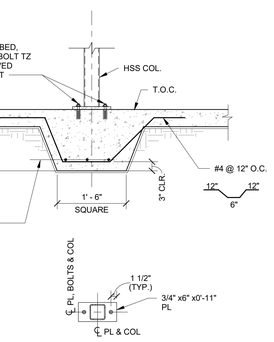
JOINT SPACING NOTE:
1. PROVIDE CONTRACTION AND/OR CONSTRUCTION JOINTS AT EVERY COLUMN CENTERLINE AND AT A MAXIMUM SPACING AS SCHEDULED. ASPECT RATIOS OF SLAB PANELS ENCLOSED BY CONTROL JOINTS SHALL NOT EXCEED 1.5 TO 1.

SAW CONTRACTION JOINT NOTES:
1. MAKE SAW CUT AS SOON AS SLAB IS ABLE TO SUPPORT WEIGHT OF WORKERS AND SAWING EQUIPMENT WITHOUT DAMAGE TO FINISH SURFACE OF SLAB.
2. ALL JOINTS SHALL BE CONTINUOUS. DO NOT OFFSET OR STAGGER JOINTS.
3. CLEAN JOINT PRIOR TO FILLING THE JOINT.

JOINT FILLER MATERIAL NOTES:
1. FILLER MATERIAL USED SHALL BE EPOXY RESINS WITH A MINIMUM SHORE "A" HARDNESS OF 80 AND SHALL CONFORM TO ASTM D2240. JOINT FILLER SHALL BE APPROVED BY ENGINEER PRIOR TO APPLICATION. INSTALL JOINT FILLER PER MANUFACTURER'S SPECIFICATIONS.
2. WHERE POSSIBLE, FILLER MATERIAL SHALL BE APPLIED WHEN BUILDING IS UNDER PERMANENT TEMPERATURE CONTROL. THIS SHALL BE EITHER AT THE END OF CONSTRUCTION OF THE COMPLETE BUILDING SHELL, OR A MINIMUM OF 90 DAYS AFTER SLAB CONSTRUCTION.
3. ALL EXPOSED SLAB JOINTS SHALL BE FILLED WITH FILLER MATERIAL.

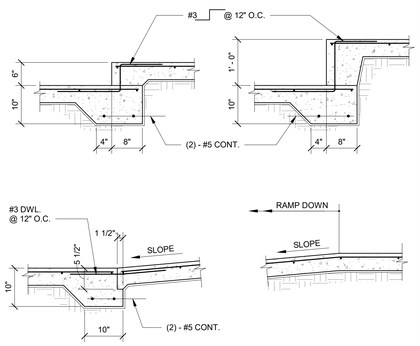
TYPICAL DETAIL
CONSTRUCTION AND CONTRACTION JOINTS SLAB-ON-GRADE

6 SCALE: N.T.S.



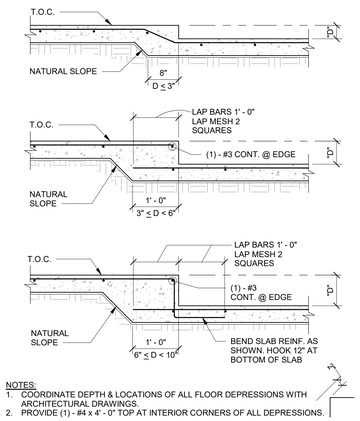
HSS COLUMN POST AT THICKENDED SLAB

17 SCALE: 3/4" = 1'-0"



TYPICAL DETAIL
AT RAMP

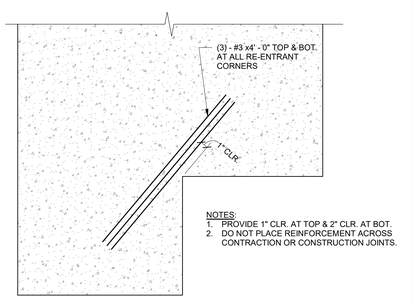
13 SCALE: 3/4" = 1'-0"



NOTES:
1. COORDINATE DEPTH & LOCATIONS OF ALL FLOOR DEPRESSIONS WITH ARCHITECTURAL DRAWINGS.
2. PROVIDE (1) - #4 x 4' - 0" TOP AT INTERIOR CORNERS OF ALL DEPRESSIONS.

TYPICAL DETAIL
AT FLOOR DEPRESSIONS

9 SCALE: N.T.S.

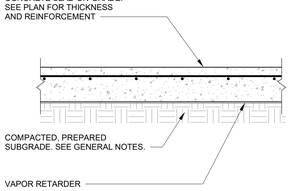


SCHEMATIC SLAB-ON-GRADE

NOTES:
1. PROVIDE 1" CLR. AT TOP & 2" CLR. AT BOT.
2. DO NOT PLACE REINFORCEMENT ACROSS CONTRACTION OR CONSTRUCTION JOINTS.

TYPICAL DETAIL
RE-ENTRANT CORNER BARS AT SLAB-ON-GRADE

5 SCALE: N.T.S.



NOTE:
1. UNLESS SPECIFIED ELSEWHERE, VAPOR RETARDER SHALL BE A MINIMUM OF 15 MILS THICK (UNLESS THICKER SPECIFIED IN SPECS/ARCH. DRAWINGS) MEETING OR EXCEEDING ASTM E-1745, CLASS C, AND HAVE NO MORE THAN 0.01 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E-96.

TYPICAL DETAIL
SLAB-ON-GRADE CONSTRUCTION SUBGRADE PREPARATION

1 SCALE: N.T.S.

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Proj. Arch.
Designer KT
Drawn By TH

PROJECT NO.
25-0067.00

SHEET TITLE
TYPICAL FOUNDATION DETAILS

SHEET NO.
S3.3

Matrix Structural Engineers
TBPE Firm Registration No. F-2640
STATE OF TEXAS
KHALIL TABAJA
137174
LICENSED
PROFESSIONAL ENGINEER
05/26/2026

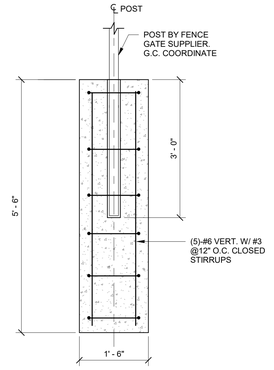
ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

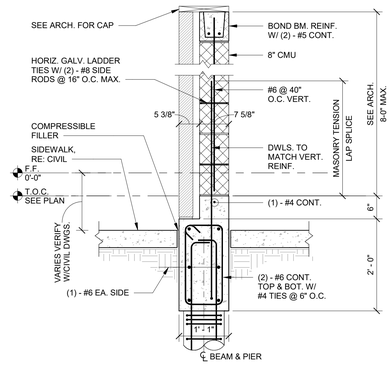
NEW OPPORTUNITY AWARENESS CENTER

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FOUNDATION AT
FENCE SWINGING GATE POST

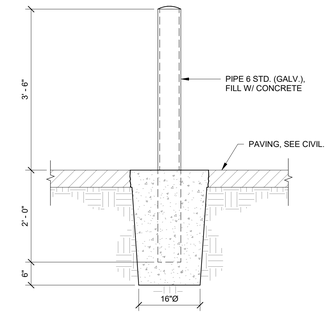
12 SCALE: N.T.S.



TYPICAL DETAIL
GRADE BEAM AT FREESTANDING DUMPSTER

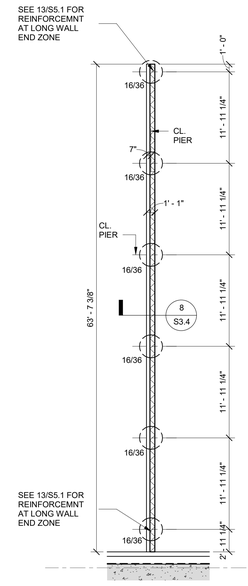
8 SCALE: 3/4" = 1'-0"

NOTES:
1. BOLLARD IS NOT DESIGNED AS A VEHICLE BARRIER, BUT RATHER IS INTENDED AS A TRAFFIC DIVERTER AND IS NOT DESIGNED FOR SIGNIFICANT IMPACT LOADS.



TYPICAL DETAIL
TRAFFIC DIVERTER BOLLARD

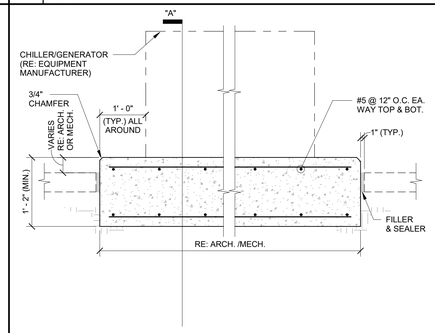
4 SCALE: 3/4" = 1'-0"



NOTES:
1. ALL PIERS SHALL BE CENTERED UNDER GRADE BEAMS, U.N.O.
2. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL SLOPES, DEPRESSIONS, ETC.
3. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION / CONSTRUCTION.
4. G.C. COORDINATE SIDEWALK/FLATWORK ELEVATION WITH CIVIL DRAWGINGS

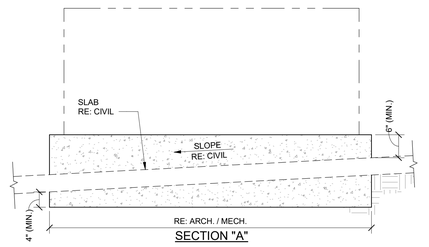
FOUNDATION PLAN - SERVICE YARD WALL

10 SCALE: 1/8" = 1'-0"



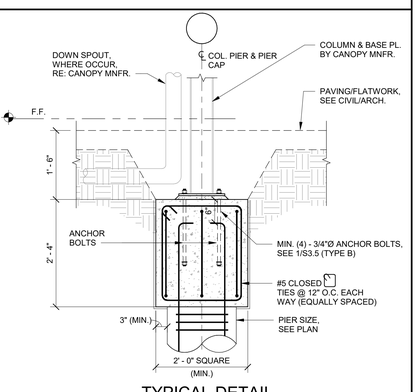
TYPICAL DETAIL
CHILLER/GENERATOR PAD

7 SCALE: 3/4" = 1'-0"



SECTION "A"

NOTES:
1. COORDINATE LOCATION WITH MEP DRAWINGS.
2. VERIFY ALL DIMENSIONS PRIOR TO FABRICATION/ CONSTRUCTION.

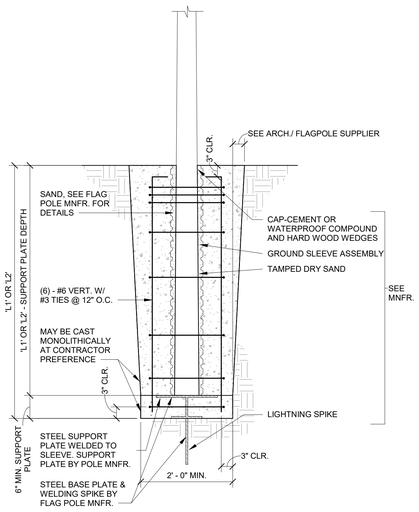


TYPICAL DETAIL
EXTERIOR CANOPY COLUMN WITH PIER CAP

14 SCALE: 3/4" = 1'-0"

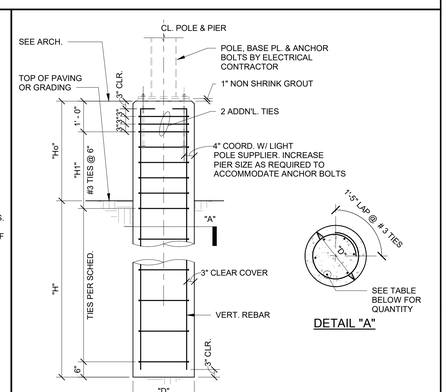
MIN. 'L' DEPTH			
MAX. POLE HEIGHT (ft.)	MAX. FLAG AREA ft²	'L1'	'L2'
20	24	4' - 0"	3' - 0"
25	30	5' - 0"	4' - 0"
30	60	5' - 6"	4' - 6"
35	60	6' - 0"	4' - 6"
45	96	7' - 6"	5' - 6"
50	150	8' - 6"	6' - 6"

NOTES:
1. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI WITH A MAXIMUM AGGREGATE SIZE OF 1 1/2" AND A MAXIMUM WATER / CEMENT RATIO OF 0.54.
2. ALL REINFORCEMENT SHALL CONFORM TO ASTM A615, GR. 60.
3. ASSUMPTIONS FOR FOUNDATION DESIGN INCLUDE A 5"-12", 20-50 FT. POLE W/ FIXTURES AND A MAXIMUM FLAG AREA OF 24-150 SQ. FT.
4. SEE MNFR. DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
5. WIND LOAD CRITERIA IS PER IBC 2018, Vult = 140 MPH.
6. FOR A STATED POLE HEIGHT SHOWN ON THE TABLE, THE DEPTH OF PIER IS DEEMED ADEQUATE IF THE MAX. FLAG AREA IS LESS THAN SHOWN ON TABLE ABOVE. WHERE MULTIPLE FLAGS ARE INSTALLED, THE COMBINED AREA OF THE FLAGS SHALL BE USED.
7. USE DEPTH 'L2' WHERE FLAG POLE IS CONFINED BY PAVING, AT BASE, OTHERWISE USE 'L1'.
8. THE PRESENCE OF SAND SEAMS AND SLICKENSIDES IN THE LAYERS MAY CAUSE SLOUGHING DURING PIER EXCAVATION, THIS MAY REQUIRE THE USE OF TEMPORARY STEEL CASING.
9. CONCRETE SHALL BE POURED IMMEDIATELY AFTER EXCAVATION.



TYPICAL DETAIL
FLAG POLE FOUNDATION

5 SCALE: N.T.S.



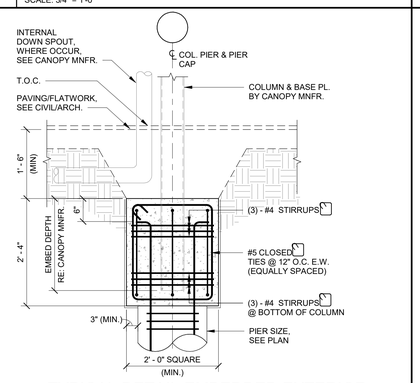
DETAIL "A"

POLE MARK	NOM. POLE HEIGHT	ASSUMED EPA (sf)	"H" DEPTH OF PIER	"Ho" ABOVE GRADE	"H1"	"D" DIAMETER OF PIER	VERTICAL REINF	TIES	REMARKS
LP1	15' - 0"	5.0	5' - 0"	RE: ARCH.	1' - 6"	24"	6 - #6	#3 @ 12"	TYPICAL PARKING
LP2	25' - 0"	10.0	8' - 0"	RE: ARCH.	1' - 6"	24"	6 - #6	#3 @ 12"	TYPICAL PARKING
LP3	35' - 0"	10.0	10' - 0"	RE: ARCH.	1' - 6"	24"	6 - #7	#3 @ 12"	

NOTES:
1. WIND LOAD CRITERIA IS PER IBC 2021. Vult = 140 MPH.
2. CONCRETE COMPRESSIVE STRENGTH, F'C = 3,000 PSI (NWC), WITH A MAX WATER/CEMENT RATIO OF 0.54.
3. STEEL REINFORCEMENT SHALL BE ASTM A615, GR. 60.
4. REFER TO ARCH DRAWINGS/CIVIL DRAWINGS FOR LOCATIONS OF LIGHT POLES.
5. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION (AND SPECIFICATIONS FOR LIGHT STANDARDS).
6. VERIFY PROJECTION OF CONCRETE ABOVE GROUND WITH ARCHITECT.
7. EPA INDICATES MAXIMUM EXPOSED PROJECTED AREA AT THE TOP OF THE POLE IN ANY DIRECTION.
8. FOR A STATED POLE HEIGHT SHOWN ON THE TABLE, THE DEPTH OF PIER IS DEEMED ADEQUATE IF EPA IS LESS THAN SHOWN ON TABLE ABOVE.
9. THE PRESENCE OF SAND SEAMS AND SLICKENSIDES IN THE LAYERS MAY CAUSE SLOUGHING DURING PIER EXCAVATION, THIS MAY REQUIRE THE USE OF TEMPORARY STEEL CASING.
10. CONCRETE SHALL BE POURED IMMEDIATELY AFTER EXCAVATION.

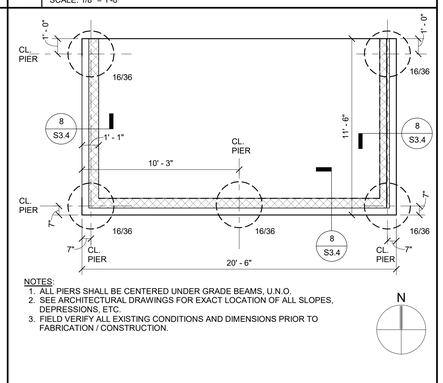
TYPICAL DETAIL
LIGHT POLE FOUNDATION

1 SCALE: N.T.S.



TYPICAL DETAIL EMBEDDED EXTERIOR
CANOPY COLUMN WITH PIER CAP

13 SCALE: 3/4" = 1'-0"



NOTES:
1. ALL PIERS SHALL BE CENTERED UNDER GRADE BEAMS, U.N.O.
2. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL SLOPES, DEPRESSIONS, ETC.
3. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION / CONSTRUCTION.

DUMPSTER ENCLOSURE PLAN

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

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KHALIL TABAJA
117324
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05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

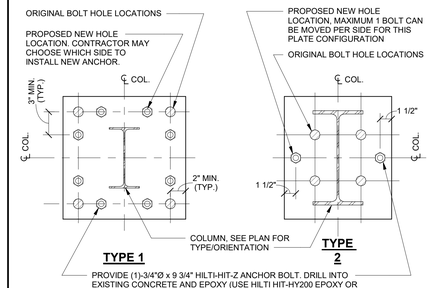
Director
Proj. Arch.
Designer KT
Drawn By TH

PROJECT NO.
25-0067.00

SHEET TITLE
TYPICAL FOUNDATION DETAILS

SHEET NO.
S3.4

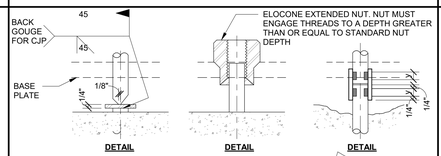
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NOTES:
1. THIS DETAIL SHALL NOT BE USED AT BRACE FRAMES OR MOMENT FRAMES. ENGINEER APPROVAL IS REQUIRED PRIOR TO INSTALLATION FOR EA. LOCATION WITH DAMAGED ANCHOR BOLTS.
2. CUT AWAY DAMAGED ANCHOR BOLTS AND PROVIDE NEW HOLES FOR EPOXY ANCHOR.
3. HIT-Z-R ANCHORS SHALL BE USED IN LIEU OF HIT-Z ANCHORS AT COLUMNS EXPOSED TO WEATHER.

TYPICAL DETAIL REPAIR AT GRAVITY BASE PLATE

4 SCALE: N.T.S.



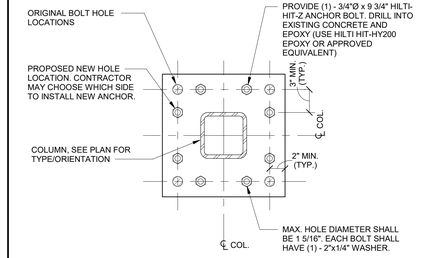
SCHEDULE (GRADE 36)*		
BOLT DIA.	t	y
3/4	1/4"	1"
7/8	1/4"	1 1/4"
1	5/16"	1 1/2"
1 1/4	3/8"	1 3/4"
1 1/2	7/16"	2 1/4"
1 3/4	1/2"	2 1/2"
2	9/16"	2 3/4"

* MULTIPLY CHART VALUES BY 1.3 FOR GRADE 55

NOTE: IF BASEPLATE IS GALVANIZED REPAIR MATERIAL MUST ALSO BE GALVANIZED

TYPICAL DETAIL REPAIR AT ANCHOR BOLT

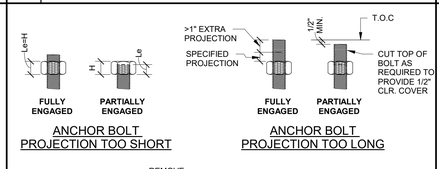
7 SCALE:N.T.S.



NOTES:
1. THIS DETAIL SHALL NOT BE USED AT BRACE FRAMES OR MOMENT FRAMES. ENGINEER APPROVAL IS REQUIRED PRIOR TO INSTALLATION FOR EA. LOCATION WITH DAMAGED ANCHOR BOLTS.
2. CUT AWAY DAMAGED ANCHOR BOLTS AND PROVIDE NEW HOLES FOR EPOXY ANCHOR.
3. HIT-Z-R ANCHORS SHALL BE USED IN LIEU OF HIT-Z ANCHORS AT COLUMNS EXPOSED TO WEATHER.

TYPICAL DETAIL REPAIR AT GRAVITY BASE PLATE

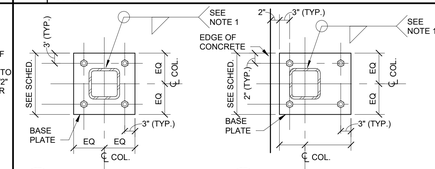
3 SCALE: N.T.S.



NOTES:
1. WHERE ANCHOR BOLT PROJECTION IS TOO LONG, SUBMIT RFI TO EOR FOR APPROVAL AS THE BOTTOM OF ANCHOR BOLT ELEVATION MAY NOT BE ADEQUATE. CUT TOP OF BOLT DOWN AS REQUIRED TO PROVIDE COVER. FOR GRAVITY BASE PLATES CONTRACTOR MAY REPLACE OUT OF PLACE ANCHOR WITH EPOXY ANCHOR AS SHOWN IN DETAIL 3/S3.5 & 4/S3.5
2. WHERE ANCHOR BOLT PROJECTION IS LOWER THAN SPECIFIED BUT FULL THREAD ENGAGEMENT WAS ACHIEVED THE BOLT IS ACCEPTABLE. WHERE PROJECTION IS SUCH THAT THE NUT IS PARTIALLY ENGAGED, SUBMIT RFI TO EOR WITH Le AND H DIMENSIONS AS WELL AS THE COLUMN LOCATION.
3. AT DAMAGED ANCHOR BOLTS OR PARTIALLY THREADED FASTENERS DEEMED UNACCEPTABLE BY THE EOR, CONTRACTOR MAY REPAIR BOLT PER DETAIL 7/S3.5 IN LIEU OF REPAIR, AT GRAVITY BASE PLATE CONTRACTOR MAY REPLACE BOLT WITH DRILLED AND EPOXIED ANCHOR PER DETAIL 3/S3.5 & 4/S3.5

TYPICAL DETAIL REPAIR AT ANCHOR BOLT

6 SCALE.N.T.S.

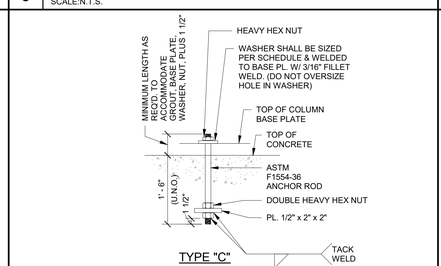


BASE PLATE SCHEDULE		
COLUMN	BASE PLATE	ANCHOR BOLTS
HSS 10 x 6	16" x 16" x 1 1/4"	(4)-1"Ø TYPE B
HSS 8 x 6	16" x 16" x 1 1/4"	(4)-1"Ø TYPE B
HSS 6 x 6	15" x 15" x 1"	(4)-1"Ø TYPE B

NOTES:
1. MINIMUM FILLET WELD ACCORDING TO AISC (1/4" MIN.). WELDING AROUND CORNER RADIUS IS NOT REQUIRED U.N.O.
2. USE OVERSIZED HOLES FOR ANCHOR RODS ACCORDING TO AISC.
3. WASHERS SHALL BE INSTALLED OVER OVERSIZED HOLES.
4. CONTRACTOR SHALL PROVIDE 1/8" THICK TEMPLATE FOR ANCHOR ROD INSTALLATION.

TYPICAL DETAIL BASE PLATE AT HSS COLUMNS

2 SCALE: N.T.S.



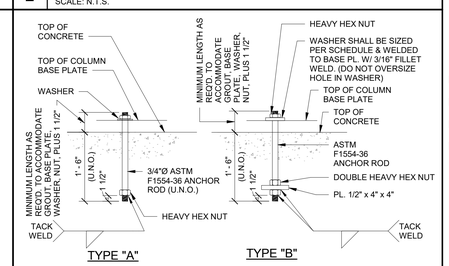
TYPE "C" WASHER SCHEDULE		
ANCHOR ROD DIA.	WASHER SIZE*	MIN. WASHER THICKNESS
3/4"	2"	1/4"
7/8"	2 1/2"	5/16"
1"	3"	3/8"
1 1/4"	3 1/2"	1/2"
1 1/2"	4"	1/2"
1 3/4"	4 1/2"	5/8"
2"	5"	3/4"
2 1/2"	5 1/2"	7/8"

NOTE:
USE TYPE "C" ANCHOR BOLTS AT PEMB.COLUMNS

*CIRCULAR OR SQUARE WASHERS MEETING WASHER SIZE ARE ACCEPTABLE

TYPICAL DETAIL ANCHOR BOLT

5 SCALE: N.T.S.



TYPE "B" WASHER SCHEDULE		
ANCHOR ROD DIA.	WASHER SIZE*	MIN. WASHER THICKNESS
3/4"	2"	1/4"
7/8"	2 1/2"	5/16"
1"	3"	3/8"
1 1/4"	3 1/2"	1/2"
1 1/2"	4"	1/2"
1 3/4"	4 1/2"	5/8"
2"	5"	3/4"
2 1/2"	5 1/2"	7/8"

NOTE:
USE TYPE "B" ANCHOR BOLTS AT COLUMNS WITH DIAGONAL BRACES, MOMENT CONNECTIONS, & AT CANOPY COLUMNS

*CIRCULAR OR SQUARE WASHERS MEETING WASHER SIZE ARE ACCEPTABLE

TYPICAL DETAIL ANCHOR BOLT

1 SCALE: N.T.S.

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ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

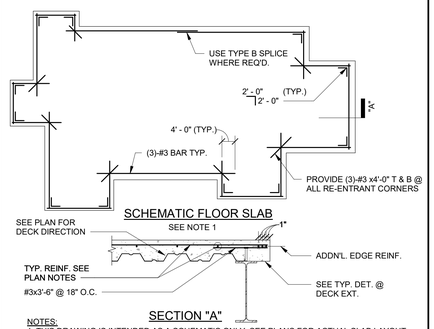
Director
Proj. Arch.
Designer KT
Drawn By TH

PROJECT NO.
25-0067.00

SHEET TITLE
TYPICAL FOUNDATION DETAILS

SHEET NO.
S3.5

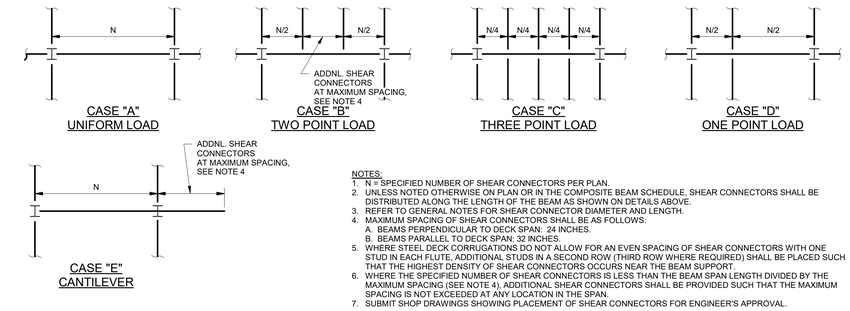
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NOTES:
1. THIS DRAWING IS INTENDED AS A SCHEMATIC ONLY. SEE PLANS FOR ACTUAL SLAB LAYOUT.
2. TYPICAL REINFORCING PARALLEL TO EDGE REINF. SHALL START 6" FROM EDGE REBAR.
3. ADDITIONAL BARS NEED ONLY BE PROVIDED AT OPENINGS LARGER THAN 4' - 0" WIDE.

TYPICAL DETAIL
REINFORCING AT SLAB EDGE

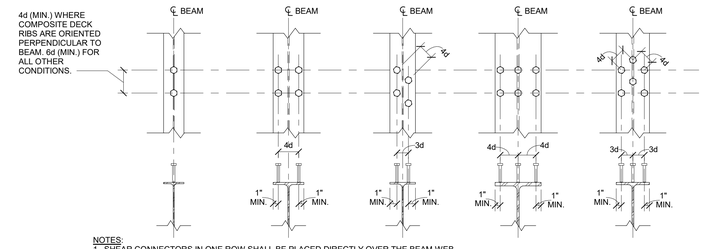
20 SCALE: N.T.S.



NOTES:
1. N = SPECIFIED NUMBER OF SHEAR CONNECTORS PER PLAN.
2. UNLESS NOTED OTHERWISE ON PLAN OR IN THE COMPOSITE BEAM SCHEDULE, SHEAR CONNECTORS SHALL BE DISTRIBUTED ALONG THE LENGTH OF THE BEAM AS SHOWN ON DETAILS ABOVE.
3. REFER TO GENERAL NOTES FOR SHEAR CONNECTOR DIAMETER AND LENGTH.
4. MAXIMUM SPACING OF SHEAR CONNECTORS SHALL BE AS FOLLOWS:
   A. BEAMS PERPENDICULAR TO DECK SPAN: 24 INCHES.
   B. BEAMS PARALLEL TO DECK SPAN: 32 INCHES.
5. WHERE STEEL DECK CORRUGATIONS DO NOT ALLOW FOR AN EVEN SPACING OF SHEAR CONNECTORS WITH ONE STUD IN EACH FLUTE, ADDITIONAL STUDS IN A SECOND ROW (THIRD ROW WHERE REQUIRED) SHALL BE PLACED SUCH THAT THE HIGHEST DENSITY OF SHEAR CONNECTORS OCCURS NEAR THE BEAM SUPPORT.
6. WHERE THE SPECIFIED NUMBER OF SHEAR CONNECTORS IS LESS THAN THE BEAM SPAN LENGTH DIVIDED BY THE MAXIMUM SPACING (SEE NOTE 4), ADDITIONAL SHEAR CONNECTORS SHALL BE PROVIDED SUCH THAT THE MAXIMUM SPACING IS NOT EXCEEDED AT ANY LOCATION IN THE SPAN.
7. SUBMIT SHOP DRAWINGS SHOWING PLACEMENT OF SHEAR CONNECTORS FOR ENGINEER'S APPROVAL.

TYPICAL DETAIL
SHEAR CONNECTOR PLACEMENT DIAGRAMS
COMPOSITE METAL DECK

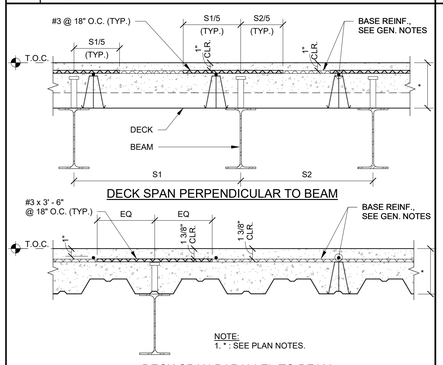
16 SCALE: N.T.S.



NOTES:
1. SHEAR CONNECTORS IN ONE ROW SHALL BE PLACED DIRECTLY OVER THE BEAM WEB.
2. PLACE STUDS IN A SINGLE ROW WHERE SPACING REQUIREMENTS PERMIT. STUDS SHALL BE PLACED IN TWO ROWS OR THREE ROWS ONLY WHERE REQUIRED IN ORDER TO PLACE THE TOTAL NUMBER OF STUDS. SEE TYPICAL DETAIL, "SHEAR CONNECTOR PLACEMENT DIAGRAMS COMPOSITE METAL DECK".
3. PROVIDE MINIMUM 1" SPACING FROM EDGE OF FLANGE TO CENTERLINE OF STUD.
4. SUBMIT SHOP DRAWINGS SHOWING PLACEMENT OF SHEAR CONNECTORS FOR ENGINEER'S APPROVAL.
5. D - INDICATES STUD SHAFT DIAMETER.
6. IF THE STEEL BEAM FLANGE IS NARROW, SPACING REQUIREMENTS MAYBE MET BY STAGGERING STUDS AS SHOWN.
7. SPACINGS SHOWN ARE MINIMUM AND MAY BE EXCEEDED WHERE SPACE IS AVAILABLE. SEE TYPICAL DETAIL "SHEAR CONNECTOR PLACEMENT DIAGRAMS ON COMPOSITE METAL DECK" FOR ADDITIONAL INFO.

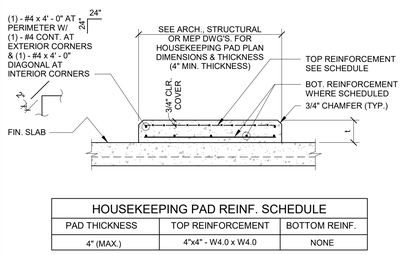
TYPICAL DETAIL
SHEAR CONNECTOR SPACING CRITERIA

8 SCALE: N.T.S.



TYPICAL DETAIL
ADDITIONAL REBAR FOR
CONCRETE ON STEEL DECK

19 SCALE: N.T.S.

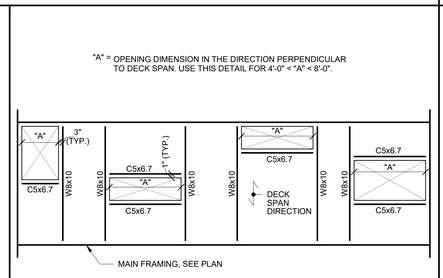


HOUSEKEEPING PAD REINF. SCHEDULE		
PAD THICKNESS	TOP REINFORCEMENT	BOTTOM REINF.
4" (MAX.)	4"x4" - W4.0 x W4.0	NONE

NOTE:
1. GENERAL CONTRACTOR TO DETERMINE REQUIREMENTS FOR HOUSEKEEPING PADS OVER STRUCTURAL SLAB AND PROVIDE WHERE REQUIRED WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT. COORDINATE DIMENSIONS AND OTHER SPECIAL REQUIREMENTS WITH EQUIPMENT MANUFACTURERS AS REQUIRED.
2. PAD SHALL NOT BE POURED UNTIL AFTER SLAB HAS REACHED ITS SPECIFIED 28 DAYS STRENGTH.
3. CONCRETE FOR HOUSEKEEPING PAD SHALL BE LIGHTWEIGHT CONCRETE WITH f'c = 3,000 psi

TYPICAL DETAIL
CONCRETE ISLAND OR HOUSEKEEPING PAD
SECOND FLOOR

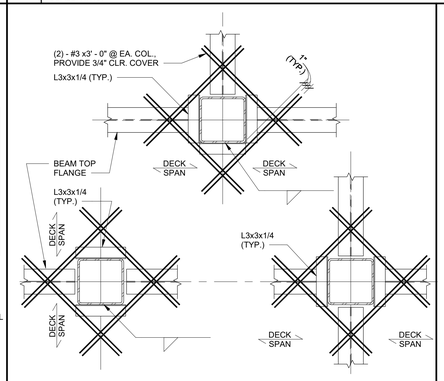
15 SCALE: N.T.S.



NOTES :
1. COORDINATE OPENING SIZE AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. THIS DETAIL SHOWS TYPICAL CONFIGURATIONS. VERIFY WITH STRUCTURE ENGINEER FOR SPECIAL CASES.
3. REFER TO STRUCTURAL ENGINEER FOR FRAMING IF DIMENSION "A" EXCEEDS 8'-0".
4. DECK MANUFACTURER TO PROVIDE 14 GAGE METAL EDGE CLOSURE AROUND EACH OPENING UNLESS DETAILED OTHERWISE.

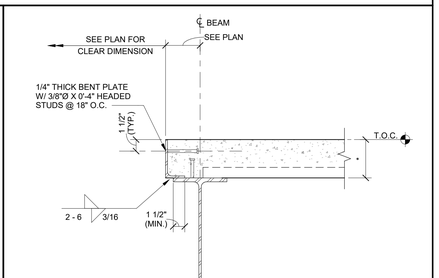
TYPICAL DETAIL
FRAMED OPENINGS IN COMPOSITE
METAL DECK SLAB FLOOR OR ROOF

11 SCALE: N.T.S.



TYPICAL DETAIL
METAL DECK SUPPORT AT STEEL COLUMNS

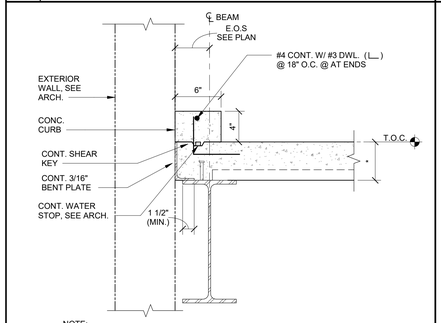
7 SCALE: N.T.S.



NOTE:
1. SEE PLAN FOR DECK DIRECTION.
2. REFER TO STAIR DRAWINGS FOR CONNECTION OF STAIR STRINGERS TO BEAM.
3. * : SEE PLAN NOTES.

TYPICAL DETAIL
STEEL STAIR FLOOR LANDING
COMPOSITE METAL DECK

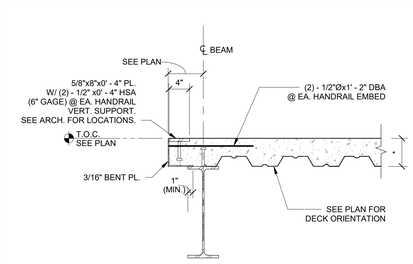
3 SCALE: N.T.S.



NOTE:
1. SEE PLAN FOR DECK DIRECTION.
2. REFER TO 1/S4.1 FOR MORE INFO, AND DETAIL 20/S4.1 FOR ADD'L REINF.
3. * : SEE PLAN NOTES.

TYPICAL DETAIL
STEEL STAIR FLOOR LANDING
COMPOSITE METAL DECK

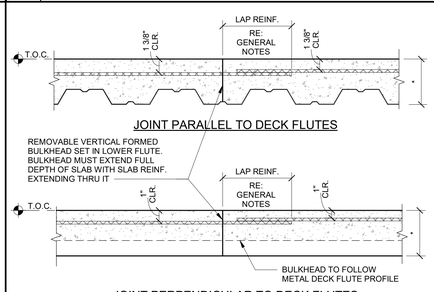
18 SCALE: N.T.S.



NOTES:
1. HANDRAIL AND THEIR ATTACHMENT BY HANDRAIL SUPPLIER.
2. SLAB REINF. NOT SHOWN FOR CLARITY.
3. SEE TYPICAL SLAB EDGE DETAILS FOR INFORMATION NOT NOTED.
4. SEE ARCHITECTURAL FOR EXACT LOCATIONS.
5. * : SEE PLAN NOTES.

TYPICAL DETAIL
EMBED AT HANDRAIL SUPPORT

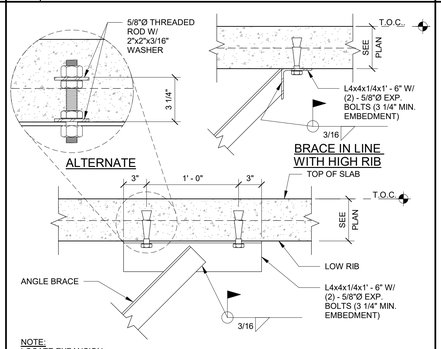
14 SCALE: N.T.S.



NOTES:
1. CONSTRUCTION JOINTS PARALLEL TO DECK FLUTES SHALL BE LOCATED NO CLOSER THAN 5' - 0" FROM THE CENTERLINE OF THE NEAREST GIRDER.
2. CONSTRUCTION JOINTS PERPENDICULAR TO DECK FLUTES SHALL BE LOCATED AT THE CENTER OF THE METAL DECK SPAN.
3. * : SEE PLAN NOTES.

TYPICAL DETAIL
CONSTRUCTION JOINT
CONCRETE SLAB ON METAL DECK

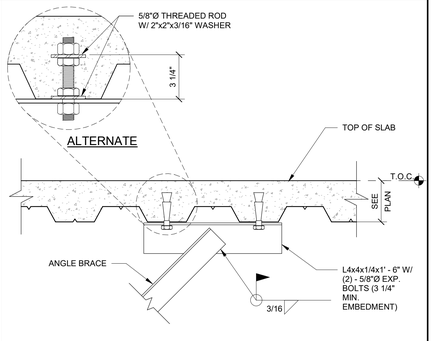
10 SCALE: N.T.S.



NOTE:
LOCATE EXPANSION BOLTS IN CENTER OF DECK FLUTE

TYPICAL DETAIL
BRACE CONNECTION TO SLAB

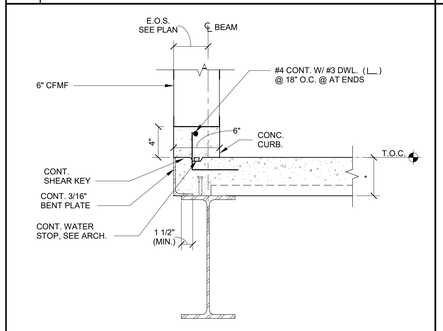
6 SCALE: N.T.S.



NOTE:
LOCATE EXPANSION BOLTS IN CENTER OF DECK FLUTE

TYPICAL DETAIL
BRACE CONNECTION TO SLAB

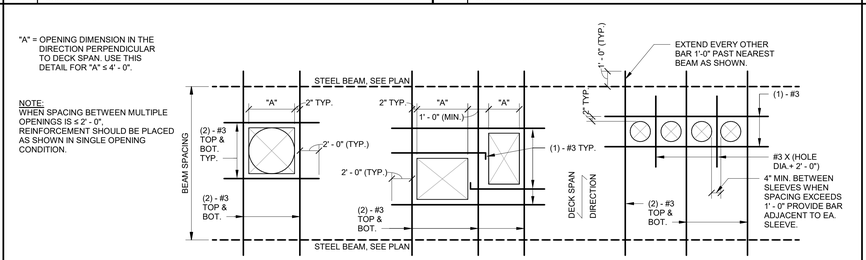
2 SCALE: N.T.S.



NOTE:
1. SEE PLAN FOR DECK DIRECTION.
2. REFER TO 1/S4.1 FOR MORE INFO, AND DETAIL 20/S4.1 FOR ADD'L REINF.
3. * : SEE PLAN NOTES.

TYPICAL DETAIL
STEEL STAIR FLOOR LANDING
COMPOSITE METAL DECK

17 SCALE: N.T.S.

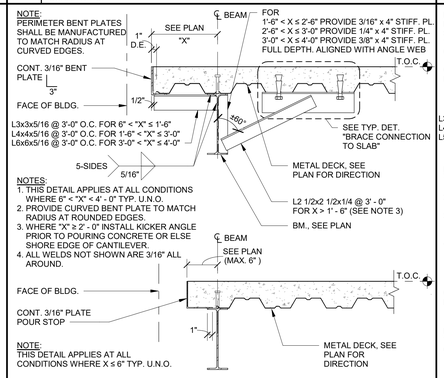


NOTE:
WHEN SPACING BETWEEN MULTIPLE OPENINGS IS ≤ 2' - 0", REINFORCEMENT SHOULD BE PLACED AS SHOWN IN SINGLE OPENING CONDITION.

NOTES:
1. COORDINATE OPENING SIZE AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. MAXIMUM DIMENSION "A" SHALL BE 4'-0". REFER TO PLAN OR DETAIL ON DRAWINGS FOR FRAMING OF OPENINGS GREATER THAN 4' - 0".
3. WWF SLAB REINFORCEMENT SHALL BE CUT AROUND OPENING. WWF SHALL EXTEND TO WITHIN 2" OF OPENING ON ALL SIDES.
4. OPENINGS 10" AND SMALLER DO NOT REQUIRE ADDITIONAL REINFORCEMENT.
5. FIELD CUT OPENINGS IN DECK AFTER CONCRETE SLAB HAS BEEN POURED AND HAS ATTAINED MINIMUM OF 75% OF ITS SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
6. REINFORCEMENT PERPENDICULAR TO DECK SPAN SHALL BE PLACED ON TOP OF DECK FLUTES.
7. REINFORCEMENT PARALLEL TO DECK SPAN SHALL BE PLACED IN THE LOWER FLUTE AND SHALL BE CHAIRED TO PROVIDE 3/4" COVER.
8. THIS DETAIL SHOWS TYPICAL CONDITIONS, VERIFY REINFORCING STEEL PLACEMENT WITH ENGINEER FOR SPECIAL CASES.
9. PROVIDE REINFORCEMENT AS SHOWN FOR SQUARE, RECTANGULAR AND ROUND OPENINGS.

TYPICAL DETAIL
OPENINGS IN COMPOSITE METAL DECK SLAB, FLOOR OR ROOF

13 SCALE: N.T.S.

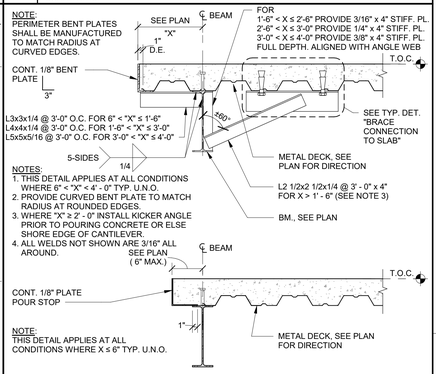


NOTES:
1. THIS DETAIL APPLIES AT ALL CONDITIONS WHERE 6" < "X" < 4' - 0" TYP. U.N.O.
2. PROVIDE CURVED BENT PLATE TO MATCH RADIUS AT ROUNDED EDGES.
3. WHERE "X" ≥ 2' - 0" INSTALL KICKER ANGLE PRIOR TO POURING CONCRETE OR ELSE SHORE EDGE OF CANTILEVER.
4. ALL WELDS NOT SHOWN ARE 3/16" ALL AROUND.

NOTE:
THIS DETAIL APPLIES AT ALL CONDITIONS WHERE X ≤ 6" TYP. U.N.O.

TYPICAL DETAIL
EDGE DETAIL - EXTERIOR
COMPOSITE METAL DECK

5 SCALE: N.T.S.



NOTES:
1. THIS DETAIL APPLIES AT ALL CONDITIONS WHERE 6" < "X" < 4' - 0" TYP. U.N.O.
2. PROVIDE CURVED BENT PLATE TO MATCH RADIUS AT ROUNDED EDGES.
3. WHERE "X" ≥ 2' - 0" INSTALL KICKER ANGLE PRIOR TO POURING CONCRETE OR ELSE SHORE EDGE OF CANTILEVER.
4. ALL WELDS NOT SHOWN ARE 3/16" ALL AROUND.

NOTE:
THIS DETAIL APPLIES AT ALL CONDITIONS WHERE X ≤ 6" TYP. U.N.O.

TYPICAL DETAIL
EDGE DETAIL - INTERIOR
COMPOSITE METAL DECK

1 SCALE: N.T.S.

VLK

ARCHITECT

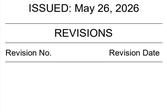
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TBPE Firm Registration No. F-2640



05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Director
Proj. Arch.
Designer KT
Drawn By TH

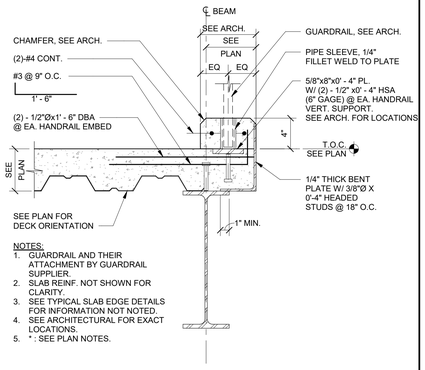
PROJECT NO.
25-0067.00

SHEET TITLE
TYPICAL FLOOR DETAILS

SHEET NO.
S4.1

NEW OPPORTUNITY AWARENESS CENTER

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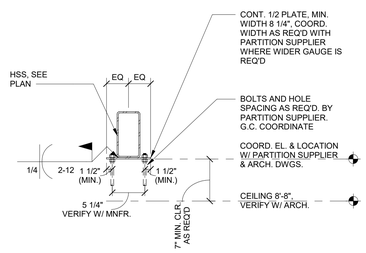


NOTES:
1. GUARDRAIL AND THEIR ATTACHMENT BY GUARDRAIL SUPPLIER.
2. SLAB REINF. NOT SHOWN FOR CLARITY.
3. SEE TYPICAL SLAB EDGE DETAILS FOR INFORMATION NOT NOTED.
4. SEE ARCHITECTURAL FOR EXACT LOCATIONS.
5. '-' SEE PLAN NOTES.

TYPICAL DETAIL
EMBED AT REMOVABLE GUARDRAIL SUPPORT

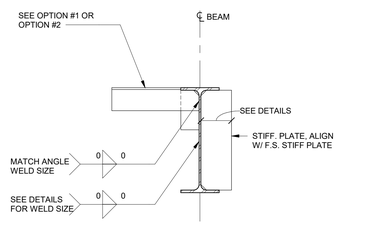
20 SCALE: N.T.S.

NOTE:
1. G.C. COORDIANTE FINISH FLOOR TO UNDERSIDE OF STRUCTURAL SUPPORT ELEVATION. BOLTS SIZE AND SPACING WITH OPERABLE PARTITION MNFR. BEFORE FABRICATION.



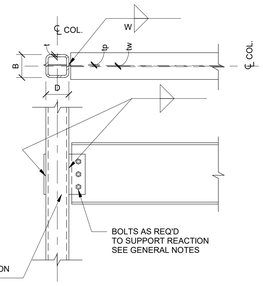
TYPICAL DETAIL
OPERABLE PARTITION SUPPORT
AT HSS BEAM

16 SCALE: N.T.S.



TYPICAL DETAIL
OUTLOOKER ANGLE AT BEAM AT FLOOR

11 SCALE: N.T.S.

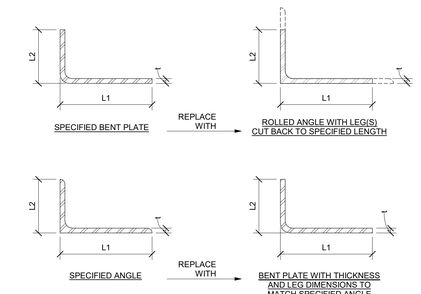


FLOOR

NOTES:
1. tp AND/OR tw SHALL BE LESS THAN OR EQUAL TO 1/4" AT 3/16" THICK HSS TUBES. AT THICKER TUBES tp AND/OR tw SHALL BE LESS THAN OR EQUAL TO 7/16" FOR CONNECTIONS WITH 2 TO 5 BOLTS, AND SHALL BE LESS THAN OR EQUAL TO 5/16" FOR CONNECTIONS WITH 6 OR MORE BOLTS.
2. PLATE DEPTH "L" SHALL NOT BE LESS THAN 1/2 THE "T" DIMENSION OF THE SUPPORTED BEAM.

TYPICAL DETAIL
STEEL BEAM TO HSS
COLUMN CONNECTION AT FLOOR

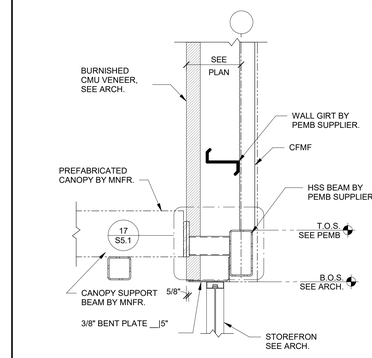
8 SCALE: N.T.S.



NOTE:
1. AT CONTRACTOR/FABRICATOR PREFERENCE ANGLE AND 90° BENT PLATES MAY BE SUBSTITUTED AS SHOWN U.N.O. BY EOR/ARCH.

TYPICAL DETAIL
ANGLE OR BENT PLATE SUBSTITUTION

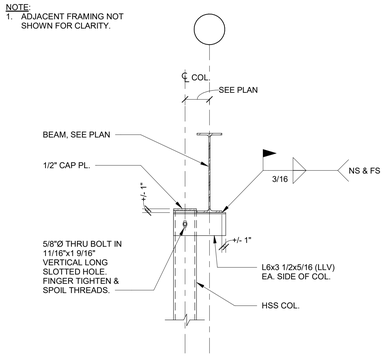
4 SCALE: N.T.S.



DETAIL AT STOREFRONT W/CANOPY

19 SCALE: N.T.S.

NOTE:
1. ADJACENT FRAMING NOT SHOWN FOR CLARITY.



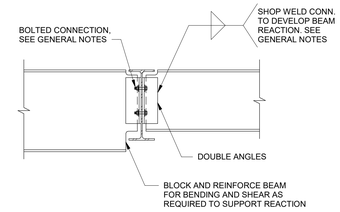
SLIDING CONNECTION AT HSS COLUMN

15 SCALE: N.T.S.

NOTES:
1. REFER TO GENERAL NOTES FOR BEAM REACTION DESIGN CRITERIA.
2. PROVIDE PRE-DESIGNED CONNECTIONS AS SHOWN IN AISC MANUAL WHERE APPLICABLE.
3. REFER TO GENERAL NOTES FOR BOLT TYPE.
4. SUPPORTED BEAMS PRIMARILY SUPPORT DISTRIBUTED LOADS FROM SLABS OR DECKING.
5. SUPPORTING BEAMS SUPPORT SIGNIFICANT POINT LOADS FROM ONE OR MORE SUPPORTED BEAMS OR FROM COLUMNS BEING TRANSFERRED. SUPPORTING BEAMS MAY BE SUPPORTED BY COLUMNS OR BY OTHER SUPPORTING BEAMS.
6. FOR AISC SIMPLE SHEAR CONNECTIONS AT SUPPORTED BEAM ENDS, USE DOUBLE ANGLE, SINGLE PLATE, OR SINGLE ANGLE U.N.O.
7. WELDED/BOLTED, WELDED/WELDED OR BOLTED/BOLTED CONNECTIONS PER AISC ARE PERMITTED.
8. ALL CONNECTIONS SHALL MEET THE ROTATIONAL DUCTILITY AND STABILITY REQUIREMENTS
9. BEAMS WITH SHEAR END PLATES REQUIRE CLOSE CONTROL IN FABRICATION TO ENSURE PROPER LENGTH AND SQUARE BEAM ENDS, PARTICULARLY WHEN CAMBER IS SPECIFIED.

TYPICAL DETAIL
BEAM TO BEAM SHEAR
CONNECTION (4 TYPES)

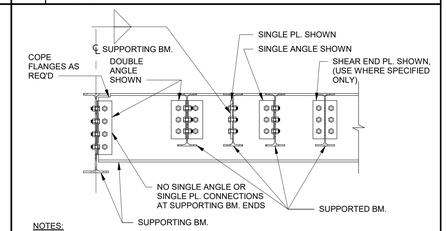
3 SCALE: N.T.S.



NOTES :
1. REFER TO GENERAL NOTES FOR BEAM REACTION DESIGN CRITERIA.
2. PROVIDE PRE-DESIGNED CONNECTIONS AS SHOWN IN AISC MANUAL PART 4 WHERE APPLICABLE.
3. REFER TO GENERAL NOTES FOR BOLT TYPE.
4. ALL CONNECTIONS SHALL MEET THE ROTATIONAL DUCTILITY AND STABILITY REQUIREMENTS PROVIDED BY AISC.

TYPICAL DETAIL
BEAM TO BEAM DOUBLE ANGLE
SHEAR CONNECTION

7 SCALE: N.T.S.

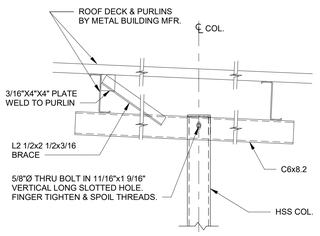


NOTES:
1. REFER TO GENERAL NOTES FOR BEAM REACTION DESIGN CRITERIA.
2. PROVIDE PRE-DESIGNED CONNECTIONS AS SHOWN IN AISC MANUAL WHERE APPLICABLE.
3. REFER TO GENERAL NOTES FOR BOLT TYPE.
4. SUPPORTED BEAMS PRIMARILY SUPPORT DISTRIBUTED LOADS FROM SLABS OR DECKING.
5. SUPPORTING BEAMS SUPPORT SIGNIFICANT POINT LOADS FROM ONE OR MORE SUPPORTED BEAMS OR FROM COLUMNS BEING TRANSFERRED. SUPPORTING BEAMS MAY BE SUPPORTED BY COLUMNS OR BY OTHER SUPPORTING BEAMS.
6. FOR AISC SIMPLE SHEAR CONNECTIONS AT SUPPORTED BEAM ENDS, USE DOUBLE ANGLE, SINGLE PLATE, OR SINGLE ANGLE U.N.O.
7. WELDED/BOLTED, WELDED/WELDED OR BOLTED/BOLTED CONNECTIONS PER AISC ARE PERMITTED.
8. ALL CONNECTIONS SHALL MEET THE ROTATIONAL DUCTILITY AND STABILITY REQUIREMENTS
9. BEAMS WITH SHEAR END PLATES REQUIRE CLOSE CONTROL IN FABRICATION TO ENSURE PROPER LENGTH AND SQUARE BEAM ENDS, PARTICULARLY WHEN CAMBER IS SPECIFIED.

TYPICAL DETAIL
BEAM TO BEAM SHEAR
CONNECTION (4 TYPES)

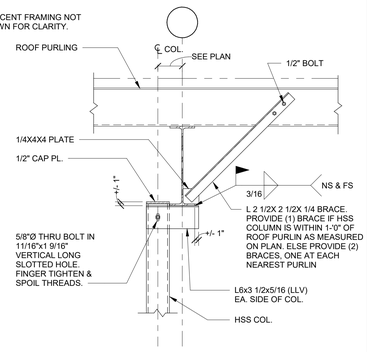
3 SCALE: N.T.S.

NOTE:
1. ADJACENT NOT SHOWN FOR CLARITY.



AT PURLINS

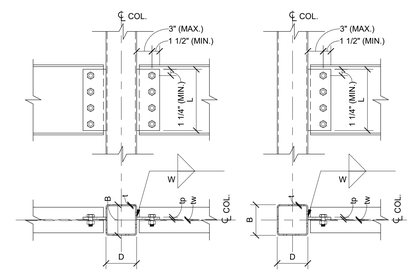
NOTE:
1. ADJACENT FRAMING NOT SHOWN FOR CLARITY.



AT WIDE FLANGE BEAM

TYPICAL DETAIL
SLIDING CONNECTION AT HSS COLUMN

17 SCALE: N.T.S.



MAX. COLUMN WIDTH	
t	B OR D MAX.
3/16"	6"
1/4"	8"
5/16"	10"
3/8"	12"
1/2"	16"
5/8"	18"

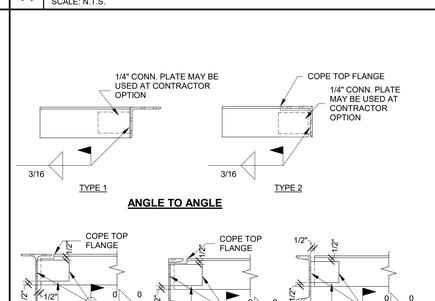
MAX. DESIGN END REACTION Ru (KIPS)*						
L (IN.)	t = 3/16"	t = 1/4"	t = 5/16"	t = 3/8"	t = 1/2"	t = 5/8"
5.5	15	20	25	30	40	50
8.5	36	48	60	73	97	121
11.5	66	89	111	133	178	222
14.5	106	142	177	212	283	354
17.5	154	206	258	309	412	516
20.5	212	283	354	425	566	708
23.5	278	373	466	558	744	930
26.5	354	474	592	710	946	1183

* - VALUES SHOWN FOR ASTM A500 GR. B STEEL. FOR ASTM A500 GR. C, MULTIPLY VALUES BY 1.07.

NOTES:
1. REFER TO GENERAL NOTES FOR BEAM REACTION DESIGN CRITERIA, REACTIONS SHOWN ARE FACTORED LOADS (LRFD).
2. PROVIDE PRE-DESIGNED CONNECTIONS AS SHOWN IN AISC MANUAL WHERE APPLICABLE.
3. REFER TO GENERAL NOTES FOR BOLT TYPE.
4. THIS CONNECTION MAY ONLY BE USED WITH THE GEOMETRY SHOWN ABOVE AND WHERE THE BEAM DESIGN REACTION IS LESS THAN THE VALUE SHOWN IN THE SCHEDULE. ALL VALUES SHOWN ARE ULTIMATE DESIGN (LRFD) VALUES.
5. tp SHALL BE LESS THAN OR EQUAL TO 1/4" AT 3/16" THICK HSS, AND LESS THAN OR EQUAL TO 3/8" AT 1/4" THICK HSS.
6. AT ALL PLATE CONNECTIONS WITH STANDARD HOLES, tp AND/OR tw SHALL BE LESS THAN OR EQUAL TO 7/16" FOR CONNECTIONS WITH 2 TO 5 BOLTS, AND SHALL BE LESS THAN OR EQUAL TO 5/16" FOR CONNECTIONS WITH 6 OR MORE BOLTS. AT ALL PLATE CONNECTIONS WITH HORIZONTAL SHORT SLOTTED HOLES, tp AND/OR tw SHALL BE LESS THAN OR EQUAL TO 7/16 FOR CONNECTIONS WITH 6 OR MORE BOLTS.
7. COLUMN WIDTH B OR D SHALL BE LESS THAN OR EQUAL TO THE MAXIMUM WIDTH SHOWN IN THE SCHEDULE.
8. W SHALL BE 5/8 (tp).
9. FOR TWO SIDED CONNECTIONS, ALL CRITERIA MUST BE MET AT BOTH SIDES. WHERE ONLY ONE SIDE FAILS THE CRITERIA A WT CONNECTION MAY BE PROVIDED AT THAT SIDE.
10. THIS DETAIL IS NOT ALLOWED AT BRACED FRAMES OR OTHER AXIALLY LOADED CONNECTIONS.
11. SEE 9/S4.2 FOR WT CONNECTIONS WHERE THIS DETAIL DOES NOT APPLY.
12. PLATE DEPTH "L" SHALL NOT BE LESS THAN 1/2 THE "T" DIMENSION OF THE SUPPORTED BEAM.

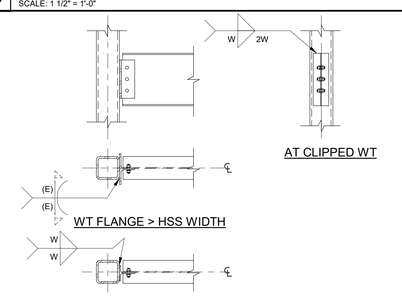
TYPICAL DETAIL
SINGLE PLATE TO RECTANGULAR HSS
WALL CONNECTION

13 SCALE: N.T.S.



TYPICAL DETAIL ANGLE CONNECTIONS

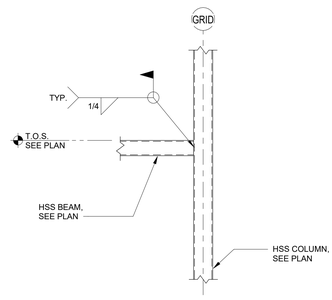
10 SCALE: 1 1/2" = 1'-0"



NOTES:
1. WELD SIZES W & E SHALL MEET AISC MIN. SIZE TO ENSURE ROTATIONAL DUCTILITY.
2. WT WEB THICKNESS SHALL NOT EXCEED 7/16".
3. THIS DETAIL MAY BE USED IN LIEU OF THE TYPICAL CONN. DETAIL AT CONTRACTOR PREFERENCE.
4. REFER TO GENERAL NOTES FOR BEAM REACTION DESIGN CRITERIA.
5. REFER TO GENERAL NOTES FOR BOLT TYPE.
6. EITHER WELDED/BOLTED OR WELDED/WELDED CONNECTIONS ARE ACCEPTABLE.

ALTERNATE DETAIL
STEEL BEAM TO HSS COLUMN CONNECTION

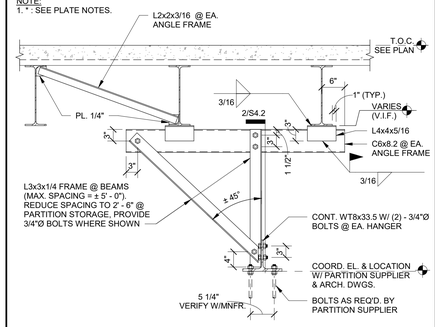
9 SCALE: N.T.S.



HSS BEAM AT HSS COLUMN

5 SCALE: 3/4" = 1'-0"

NOTE:
1. * - SEE PLATE NOTES.



TYPICAL DETAIL
OPERABLE PARTITION SUPPORT

1 SCALE: N.T.S.

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PROFESSIONAL ENGINEER
05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Director
Proj. Arch.
Designer KT
Drawn By TH

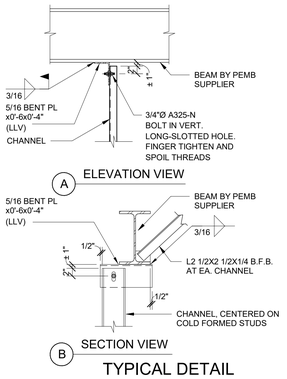
PROJECT NO.
25-0067.00

SHEET TITLE
TYPICAL FLOOR DETAILS

SHEET NO.
S4.2

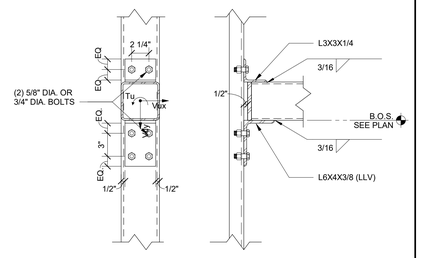
NEW OPPORTUNITY AWARENESS CENTER

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TYPICAL DETAIL
CHANNEL TO BEAM SLIDING CONNECTION

12 SCALE: 3/4" = 1'-0"



TYPE 2

	MINIMUM LAP SPLICE LENGTH				REINFORCEMENT OFF CENTER	HOOKED BAR DEVELOPMENT LENGTH
	REINFORCEMENT AT CENTER OF WALL					
BAR SIZE	6" CMU	8" CMU	10" CMU	12" CMU	ANY	ANY
3	12	12	12	12	17	5
4	18	13	12	12	29	7
5	28[4]	20	16	13	45	9
6	51[4]	37	29	24	54	10
7	NA[5]	50	39	32	63	12
8	NA[5]	72	58	48	72	13

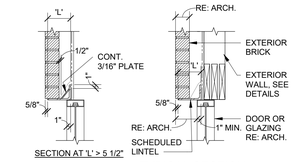
NOTES:
1. TABLE FOR USE WITH GRADE 60 UNCOATED REINF. BARS IN CMU (f'm = 2000 psi)
2. BARS SPLICED BY NON-CONTACT LAP SPLICE SHALL NOT BE SPACED FARTHER APART THAN, ONE-FIFTH THE REQUIRED LAP LENGTH, OR 8".
3. LAP LENGTHS PER IBC 2021.
4. PERMITTED ONLY IF ALL MORTAR FINS ARE REMOVED ROM THE CELL TO BE GROUTED.
5. BAR EXCEEDS MAX. ALLOWABLE SIZE.
6. DEVELOPMENT LENGTH OF EPOXY COATED BARS SHALL BE TAKEN AS 1.5 TIMES THE VALUES IN THE CHART.

TYPICAL DETAIL
MASONRY TENSION LAP SPLICE (INCHES)

4 SCALE: N.T.S.

MINIMUM ANGLE SIZE

CLEAR OPENING	EXPANSION JOINT AT RUNNING BOND			
	NONE	ONE SIDE	BOTH SIDES	STACK BOND
≤6'-0"	L3 1/2 x 'L' x 5/16	L5 x 'L' x 1/4	L5 x 'L' x 5/16	L7 x 'L' x 3/8
6'-8"	L4 x 'L' x 5/16	L5 x 'L' x 5/16	L6 x 'L' x 5/16	L7 x 'L' x 3/8
7'-4"	L5 x 'L' x 1/4	L6 x 'L' x 5/16	L6 x 'L' x 3/8	L8 x 'L' x 7/16
8'-0"	L6 x 'L' x 5/16	L6 x 'L' x 3/8	L7 x 'L' x 3/8	L8 x 'L' x 7/16
10'-0"	L7 x 'L' x 3/8	L8 x 'L' x 7/16	L8 x 'L' x 7/16	NA
12'-0"	L8 x 'L' x 7/16	NA	NA	NA



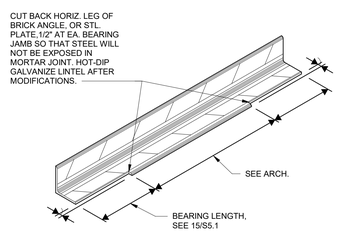
TYPICAL SECTION

NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
2. PROVIDE 1" OF BEARING AT EACH JAMB FOR EACH FOOT OF CLEAR SPAN BUT NOT LESS THAN 6".
3. WHERE MINIMUM BEARING CANNOT BE ACHIEVED, PROVIDE ADEQUATE CONNECTION TO ADJACENT STRUCTURAL MEMBERS OR PROVIDE SEPARATE VERTICAL SUPPORTS. SUBMIT SUCH DETAILS FOR THE ENGINEER'S APPROVAL.
4. ALL LINTELS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
5. FOR MASONRY OPENINGS GREATER THAN 10'-0", SEE DETAILS ON THE DRAWINGS OR REFER TO ENGINEER.
6. BRICK HEIGHTS OVER OPENINGS GREATER THAN ONE HALF THE LINTEL SPAN SHALL BE SHORED UNTIL MORTAR HAS SET AND CURED.
7. 'L' DIMENSION SHALL NOT BE LESS THAN 4". FOR 'L' DIMENSION GREATER THAN 5 1/2", PROVIDE 3/16" PLATE STIFFENER.
8. WHERE MINIMUM ANGLE THICKNESS EXCEEDS GROUT BED THICKNESS, BOOT CUT BRICK AS REQ'D IN ORDER TO MAINTAIN LEVEL COURSING
9. REFER TO ARCHITECTURAL DRAWINGS FOR VERTICAL BRICK JOINT LOCATIONS
10. WHERE NO BRICK JOINTS OCCUR, LINTEL SCHEDULE IS VALID FOR ALL BRICK WALL HEIGHTS. WHERE EXPANSION JOINTS ARE PROVIDED AT ONE OR BOTH SIDES OF OPENINGS, OR WHERE STACK BONDED BRICK IS USED. LINTEL SCHEDULE IS VALID FOR A CARRIED BRICK HEIGHT UP TO 26 FT. SEE EOR IF THIS VALUE IS EXCEEDED.

TYPICAL DETAIL
STEEL LOOSE LINTEL
SCHEDULE EXTERIOR BRICK

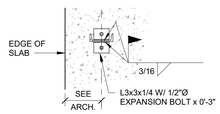
18 SCALE: 3/4" = 1'-0"

NOTE:
SEE 15/S5.1 FOR LINTEL SCHEDULE

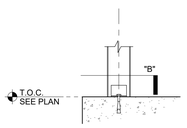


TYPICAL DETAIL
LOOSE LINTEL CUT BACK AND BEARING

15 SCALE: N.T.S.

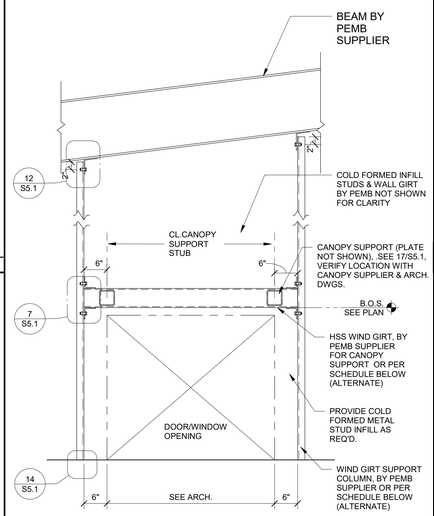


SECTION "B"



TYPICAL DETAIL
WIND GIRT WITH CHANNEL SUPPORTS

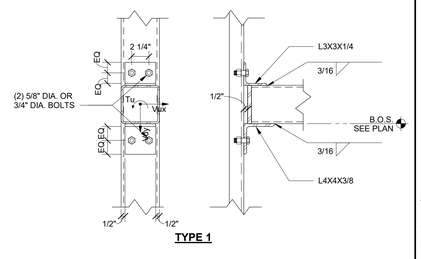
14 SCALE: N.T.S.



FRAMING SCHEDULE			
COL. SPACING	WIND GIRTS	COLUMNS	CONNECTION
< 8'-0"	HSS6X5X5/16 (LSV)	MC6X15.3	TYPE 1, SEE 7/S5.1
< 14'-4"	HSS6X5X3/8 (LSV)	MC7X19.1	TYPE 2, SEE 7/S5.1

TYPICAL DETAIL
WIND GIRT WITH CHANNEL SUPPORTS

10 SCALE: N.T.S.



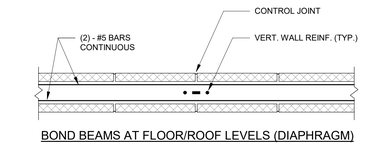
TYPE 1

	Vuy	Vux	Tu
TYPE 1	10 KIPS	7 KIPS	2.5 K-FT
TYPE 2	10 KIPS	15 KIPS	5 K-FT

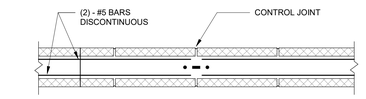
HSS TUBE TO VERTICAL
CHANNEL CONNECTION

7 SCALE: 1 1/2" = 1'-0"

NOTE:
COORDINATE CONTROL JOINT LOCATIONS WITH ARCHITECTURAL DRAWINGS.



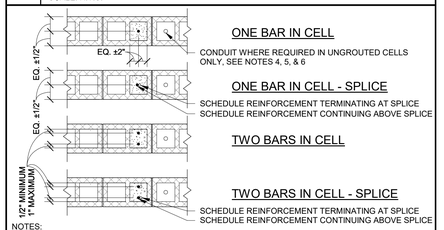
BOND BEAMS AT FLOOR/ROOF LEVELS (DIAPHRAGM)



BOND BEAMS AT INTERMEDIATE LEVELS

TYPICAL DETAIL BOND BEAM AT CONTROL JOINTS

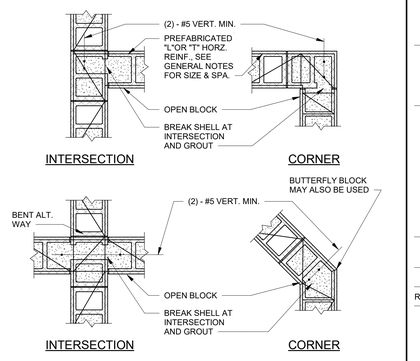
6 SCALE: N.T.S.



NOTES:
1. REINFORCEMENT MUST BE PLACED USING REINFORCING BAR POSITIONERS THAT LOCATE THE BAR AS SPECIFIED AND PREVENT MOVEMENT OF THE BAR DURING CONSTRUCTION.
2. SPLICED REINFORCEMENT MUST BE A CONTACT LAP SPLICE WITH SPLICED BARS ALIGNED PARALLEL TO THE WALL AS SHOWN.
3. THE ENGINEER MUST BE NOTIFIED PRIOR TO PLACEMENT OF REINFORCEMENT THAT IS REQUIRED TO BE PLACED OUTSIDE OF THE TOLERANCES OF THIS DETAIL SUCH AS TO AVOID INTERFERENCE WITH OTHER REINFORCEMENT, CONDUITS, OR EMBEDDED ITEMS.
4. CONDUIT, PIPES AND SLEEVES SHALL BE NO CLOSER THAN 3 DIAMETERS ON CENTER (USE LARGER DIAMETER WHERE MULTIPLE SIZES ARE USED).
5. ALUMINUM PIPES MAY NOT BE USED UNLESS EFFECTIVELY COATED TO PREVENT CHEMICAL REACTION.
6. PIPES SHALL NOT BE EMBEDDED IN MASONRY WHEN:
   (a) CONTAINING LIQUIDS, GAS, OR VAPORS AT A TEMPERATURE HIGHER THAN 150°F (66°C).
   (b) UNDER PRESSURE IN EXCESS OF 55 PSI (379 KPA).
   (c) CONTAINING WATER OR OTHER LIQUIDS SUBJECT TO FREEZING.

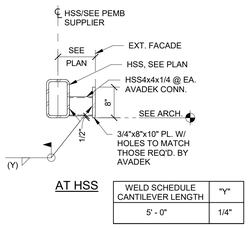
TYPICAL DETAIL
CMU VERTICAL BAR PLACEMENT

3 SCALE: N.T.S.



TYPICAL DETAIL CMU WALL INTERSECTIONS

2 SCALE: N.T.S.



AT HSS

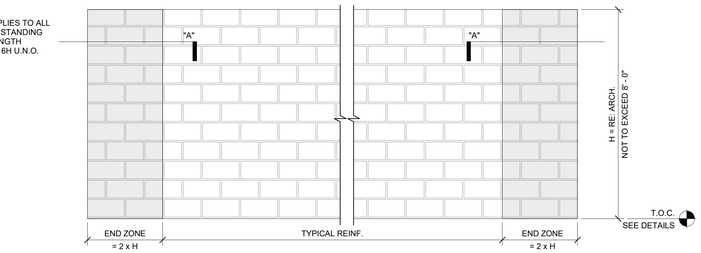
WELD SCHEDULE CANTILEVER LENGTH	"Y"
5' - 0"	1/4"

NOTES:
1. CONTRACTOR SHALL CONFIRM SPACING FROM CANOPY SUPPLIER PRIOR TO FABRICATION & SUBMIT SHOP DRAWINGS FOR APPROVAL.
2. SIMPLE SPAN INDICATES CANOPY IS SUPPORTED ON EXTERIOR COLUMNS.
3. ALL STEEL TO BE HOT DIPPED GALVANIZED

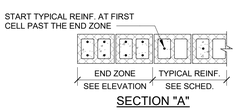
TYPICAL DETAIL
AT CANOPY CONNECTION

17 SCALE: N.T.S.

NOTE:
THIS DETAIL APPLIES TO ALL EXTERIOR FREESTANDING WALLS WITH LENGTH GREATER THAN 6H U.N.O.



ELEVATION



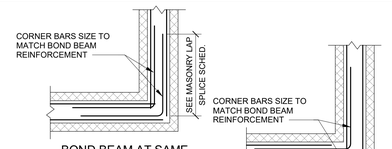
SECTION "A"

CMU WALL REINFORCEMENT SCHEDULE	
TYPICAL REINF.	#6 @ 40" O.C.
END ZONE REINF.	(2) - #5 @ 16" O.C.*

*PROVIDE 1 BAR AT EA. FACE

TYPICAL DETAIL
REINFORCING AT "LONG" CMU SCREEN WALLS

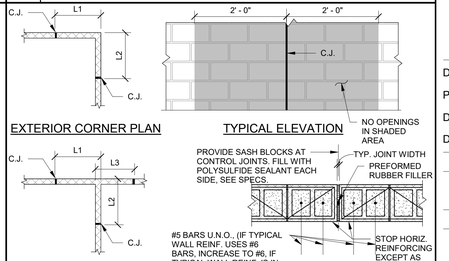
13 SCALE: N.T.S.



NOTE:
OMIT CORNER BARS AT CONTROL JOINT LOCATIONS AS INDICATED ON TYPICAL CMU ELEVATION.

TYPICAL DETAIL CMU BOND BEAM REINFORCEMENT

5 SCALE: N.T.S.



NOTES:
1. CONTRACTOR SHALL OBTAIN ARCHITECT'S APPROVAL OF JOINT LOCATIONS, WHICH SHALL NOT EXCEED THE MINIMUM OF 1.5 TIMES THE WALL HEIGHT OR 20'-0".
2. HORIZONTAL REINFORCING AT FLOOR AND ROOF LINES SHALL BE CONTINUOUS THRU JOINT.
3. CONCRETE BLOCK SHOWN - BRICK SIMILAR.
4. SAWCUT BLOCK OR BRICK AS REQUIRED.
5. AT EXTERIOR CORNERS, LOCATE JOINTS SUCH THAT: L1 + L2 ≤ 20' - 0".
6. AT EXTERIOR "T" INTERSECTIONS, LOCATE JOINTS SUCH THAT: L1 + L2 ≤ 20' - 0", L2 + L3 ≤ 20' - 0" AND L1 + L3 - WALL THICKNESS ≤ 20' - 0"

TYPICAL DETAIL MASONRY WALL CONTROL JOINT

1 SCALE: N.T.S.

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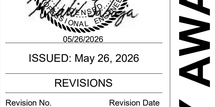
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05/26/2026

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Director
Proj. Arch.
Designer KT
Drawn By TH

PROJECT NO.
25-0067.00

SHEET TITLE
TYPICAL CMU WALL AND CANOPY DETAILS

SHEET NO.
S5.1

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PROJECT DESIGN CONDITIONS

WEATHER STATION	ASHRAE 90.1 ZONE	LATITUDE	LONGITUDE	ELEVATION	COOLING			DEHUMIDIFICATION		HEATING	
					0.4%			1.0%		99.6%	
					HOTTEST MONTH	DB (°F)	MCWB (°F)	WB (°F)	MCDB (°F)	COLDEST MONTH	DB (°F)
Houston Executive, TX USA	2A	29.800N	95.9W	168 FT	AUGUST	98.9	76.1	81.1	82.4	JANUARY	27.9

ABBREVIATIONS:
DB: DRY BULB TEMPERATURE
WB: WET BULB TEMPERATURE
MCDB: MEAN COINCIDENT DRY BULB TEMPERATURE
MCWB: MEAN COINCIDENT WET BULB TEMPERATURE

General Notes
(1) Based on 2021 ASHRAE Handbook - Fundamentals

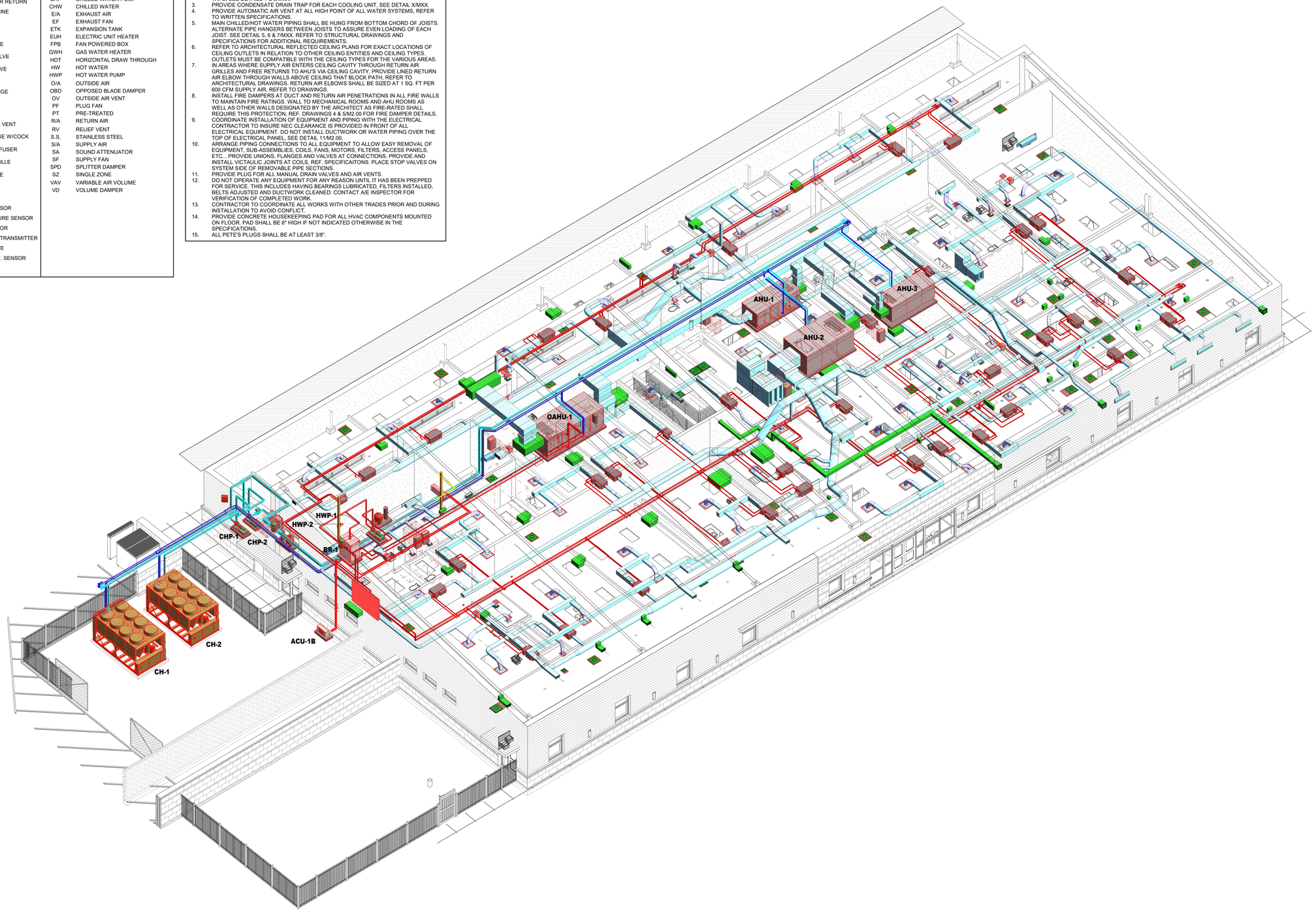
MECHANICAL LEGEND AND SYMBOL SCHEDULE

CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
CWS	CONDENSER WATER SUPPLY
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
D	CONDENSATE LINE
	PETE'S PLUG
	VALVE
	CONTROL VALVE
M	MOTORIZED VALVE
	BUTTERFLYVALVE
	BALL VALVE
	UNION OR FLANGE
	CHECK VALVE
	STRAINER
	AUTOMATIC AIR VENT
	PRESSURE GAGE W/COCK
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	EXHAUST GRILLE
M	MOTORIZED
FS	FLOW SWITCH
PS	PRESSURE SENSOR
PH	HI-LIMIT PRESSURE SENSOR
AF	AIR FLOW SENSOR
T	TEMPERATURE TRANSMITTER
S	SOLENOID VALVE
P	PRESSURE DIFF. SENSOR
	ACCESS PANEL

A.P.	ACCESS PANEL
A/C	AIR CONDITIONING UNIT
AHU	AIR HANDLING UNIT
ASEP	AIR SEPARATOR
CH	CHILLER
CHP	CHILLED WATER PUMP
CHW	CHILLED WATER
E/A	EXHAUST AIR
EF	EXHAUST FAN
ETK	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
FPB	FAN POWERED BOX
GWH	GAS WATER HEATER
HDT	HORIZONTAL DRAW THROUGH
HW	HOT WATER
HWP	HOT WATER PUMP
O/A	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OV	OUTSIDE AIR VENT
PF	PLUG FAN
PT	PRE-TREATED
R/A	RETURN AIR
RV	RELIEF VENT
S.S.	STAINLESS STEEL
S/A	SUPPLY AIR
SA	SOUND ATTENUATOR
SF	SUPPLY FAN
SPD	SPLITTER DAMPER
SZ	SINGLE ZONE
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER

GENERAL MECHANICAL NOTES

1. REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. DUCTS SIZES SHOWN ARE NET FREE AIR PASSAGE DIMENSIONS. SUPPLY AIR DUCTS ARE NOT LINED, BUT ARE EXTERNALLY INSULATED, UNLESS INDICATED OTHERWISE ON THE DRAWINGS. RUN OUTS TO CEILING OUTLETS SHALL BE EXTERNALLY INSULATED GALVANIZED SHEET METAL WITH SPIN-IN VOLUME DAMPER AT TRUNK TAPS, SEE DETAILS 1 & 3/MXX.
3. PROVIDE CONDENSATE DRAIN TRAP FOR EACH COOLING UNIT, SEE DETAIL X/MXX.
4. PROVIDE AUTOMATIC AIR VENT AT ALL HIGH POINT OF ALL WATER SYSTEMS, REFER TO WRITTEN SPECIFICATIONS.
5. MAIN CHILLED/HOT WATER PIPING SHALL BE HUNG FROM BOTTOM CHORD OF JOISTS. ALTERNATE PIPE HANGERS BETWEEN JOISTS TO ASSURE EVEN LOADING OF EACH JOIST. SEE DETAIL 5, 6 & 7/MXX. REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING OUTLETS IN RELATION TO OTHER CEILING ENTITIES AND CEILING TYPES. OUTLETS MUST BE COMPATIBLE WITH THE CEILING TYPES FOR THE VARIOUS AREAS.
7. IN AREAS WHERE SUPPLY AIR ENTERS CEILING CAVITY THROUGH RETURN AIR GRILLES AND FREE RETURNS TO AHU'S VIA CEILING CAVITY, PROVIDE LINED RETURN AIR ELBOW THROUGH WALLS ABOVE CEILING THAT BLOCK PATH, REFER TO ARCHITECTURAL DRAWINGS. RETURN AIR ELBOWS SHALL BE SIZED AT 1 SQ. FT PER 600 CFM SUPPLY AIR, REFER TO DRAWINGS.
8. INSTALL FIRE DAMPERS AT DUCT AND RETURN AIR PENETRATIONS IN ALL FIRE WALLS TO MAINTAIN FIRE RATINGS. WALL TO MECHANICAL ROOMS AND AHU ROOMS AS WELL AS OTHER WALLS DESIGNATED BY THE ARCHITECT AS FIRE-RATED SHALL REQUIRE THIS PROTECTION, REF. DRAWINGS 4 & 5/M2.00 FOR FIRE DAMPER DETAILS.
9. COORDINATE INSTALLATION OF EQUIPMENT AND PIPING WITH THE ELECTRICAL CONTRACTOR TO INSURE NEC CLEARANCE IS PROVIDED IN FRONT OF ALL ELECTRICAL EQUIPMENT. DO NOT INSTALL DUCTWORK OR WATER PIPING OVER THE TOP OF ELECTRICAL PANEL, SEE DETAIL 11/M2.00.
10. ARRANGE PIPING CONNECTIONS TO ALL EQUIPMENT TO ALLOW EASY REMOVAL OF EQUIPMENT, SUB-ASSEMBLIES, COILS, FANS, MOTORS, FILTERS, ACCESS PANELS, ETC... PROVIDE UNIONS, FLANGES AND VALVES AT CONNECTIONS. PROVIDE AND INSTALL VICTAULIC JOINTS AT COILS, REF. SPECIFICAITONS. PLACE STOP VALVES ON SYSTEM SIDE OF REMOVABLE PIPE SECTIONS.
11. PROVIDE PLUG FOR ALL MANUAL DRAIN VALVES AND AIR VENTS.
12. DO NOT OPERATE ANY EQUIPMENT FOR ANY REASON UNTIL IT HAS BEEN PREPPED FOR SERVICE. THIS INCLUDES HAVING BEARINGS LUBRICATED, FILTERS INSTALLED, BELTS ADJUSTED AND DUCTWORK CLEANED. CONTACT A/E INSPECTOR FOR VERIFICATION OF COMPLETED WORK.
13. CONTRACTOR TO COORDINATE ALL WORKS WITH OTHER TRADES PRIOR AND DURING INSTALLATION TO AVOID CONFLICT.
14. PROVIDE CONCRETE HOUSEKEEPING PAD FOR ALL HVAC COMPONENTS MOUNTED ON FLOOR. PAD SHALL BE 6" HIGH IF NOT INDICATED OTHERWISE IN THE SPECIFICATIONS.
15. ALL PETE'S PLUGS SHALL BE AT LEAST 3/8".



1 **MECHANICAL ISOMETRIC VIEW**
SCALE=

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MECHANICAL

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ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	MH
Drawn By	MH

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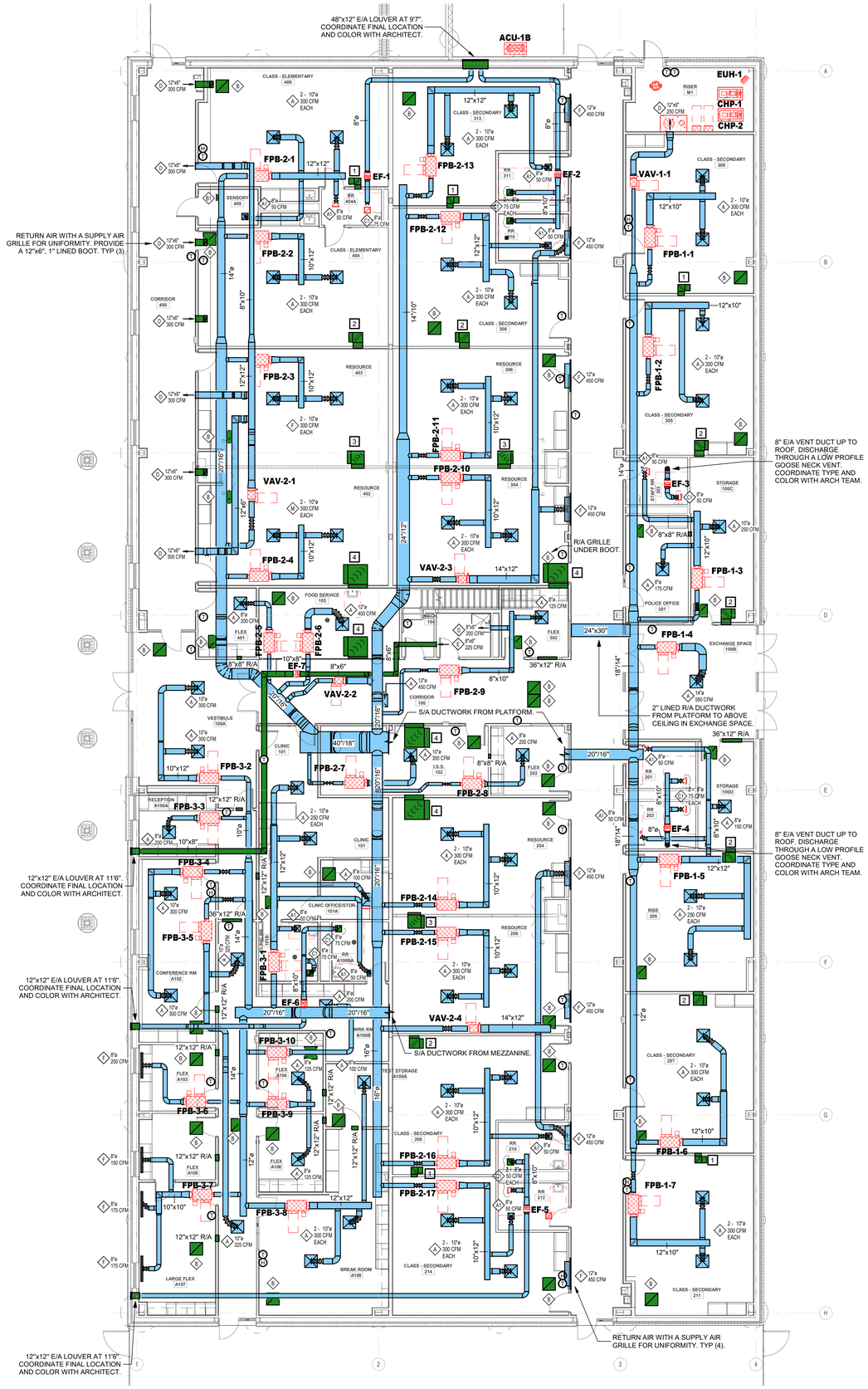
SHEET TITLE
MECHANICAL ISOMETRIC VIEW

SHEET NO.
M0.00

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MECHANICAL KEY NOTES

1. 12"X12", 1" ACOUSTICALLY LINED, RETURN AIR BOOT.
2. 18"X12", 1" ACOUSTICALLY LINED, RETURN AIR BOOT.
3. 24"X12", 1" ACOUSTICALLY LINED, RETURN AIR BOOT.
4. 36"X12", 1" ACOUSTICALLY LINED, RETURN AIR BOOT.



1 **MECHANICAL LEVEL ONE FLOOR PLAN**
SCALE= 1/8" = 1'-0"

2 **MECHANICAL PLATFORM**
SCALE= 1/8" = 1'-0"

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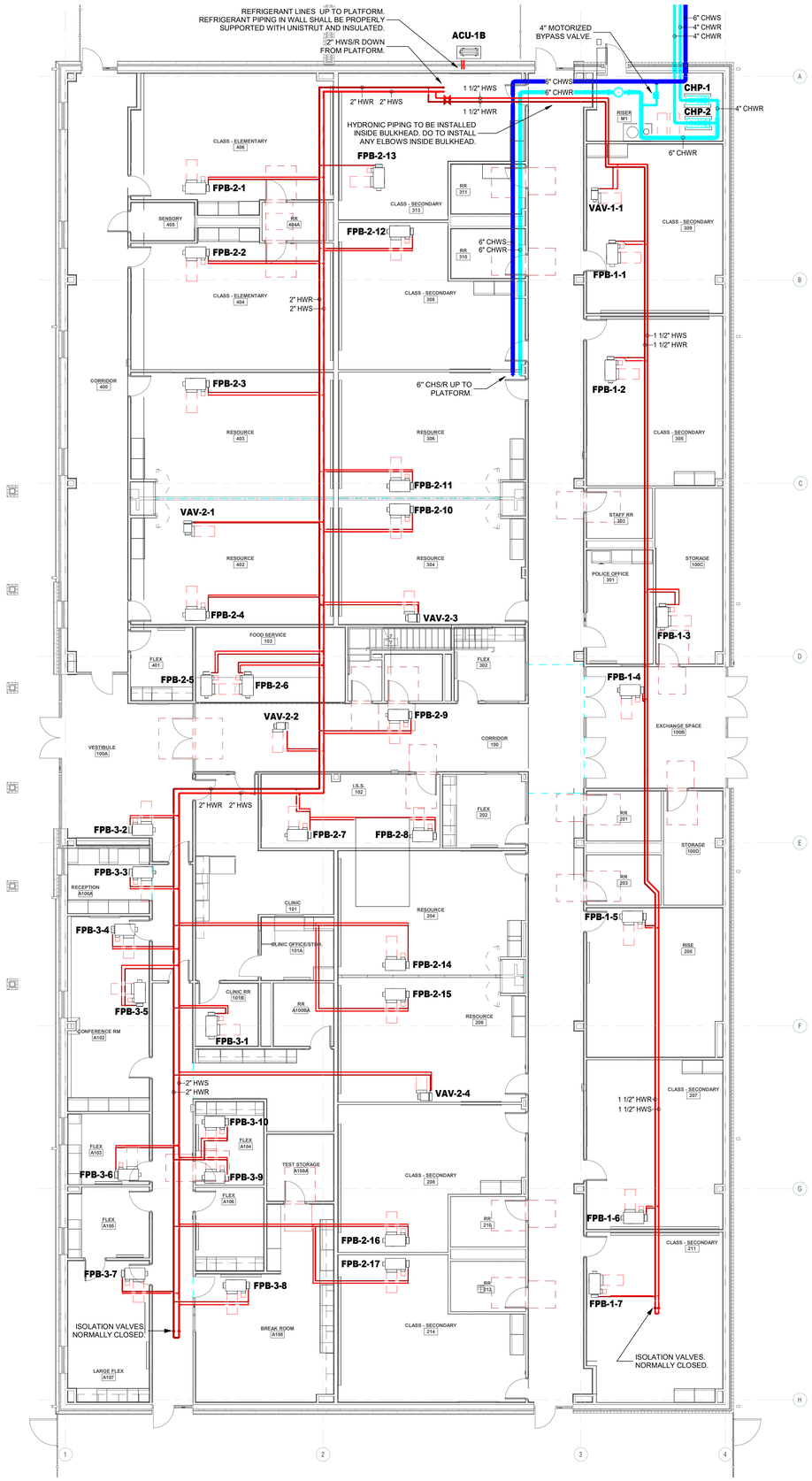
Director	Charles Johnson
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Designer	MH
Drawn By	MH

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MECHANICAL LEVEL ONE FLOOR PLAN

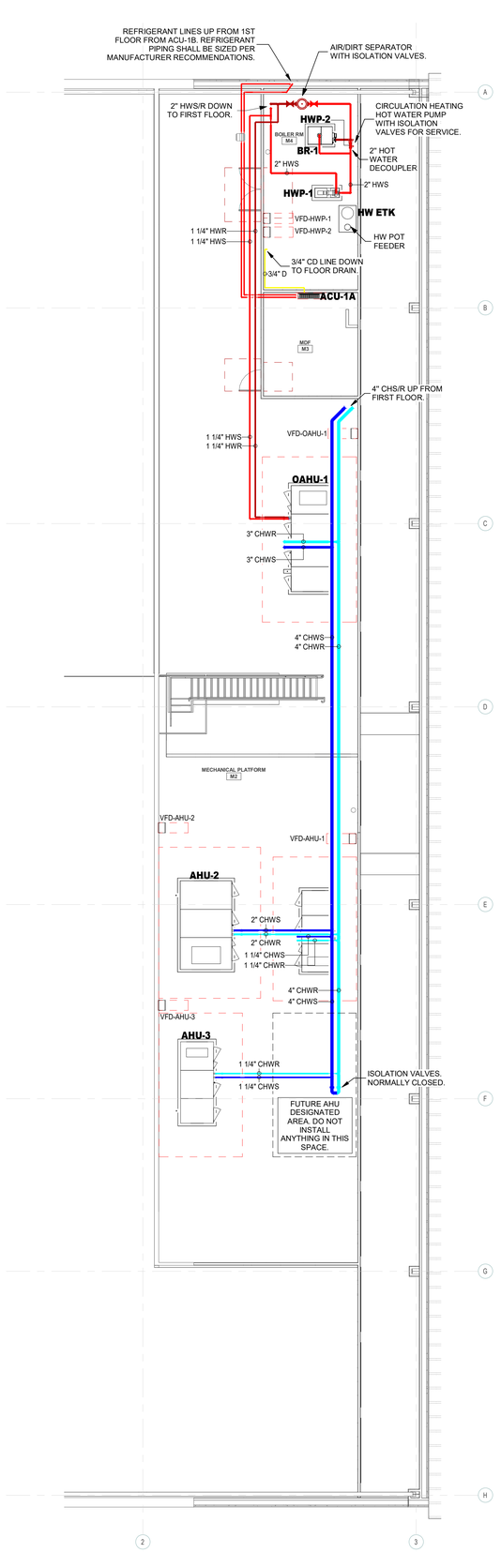
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M2.11

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1 MECHANICAL PIPING LEVEL ONE FLOOR PLAN

SCALE= 1/8" = 1'-0"



2 MECHANICAL PIPING MEZZANINE PLAN

SCALE= 1/8" = 1'-0"

MECHANICAL PIPING NOTES

1. ALL HYDRONIC PIPING SHALL BE INSTALLED IN A MANNER THAT ALLOWS FOR PROPER MANUFACTURER RECOMMENDED CLEARANCES. PIPING SHALL NOT BLOCKED ACCESS TO SERVICE UNITS (PUMPS, CHILLERS, AHU, VAV/FPB BOXES, BOILERS, ETC)
2. CONTRACTOR TO INSTALL PIPING AS CLOSED AS SHOWN ON CONTRACT DOCUMENTS. WHEN NOT POSSIBLE DUE TO PLENUM CONSTRAINTS, REROUTE PIPING IN A MANNER THAT DOES NOT ADD TOO MUCH PRESSURE DROP TO THE SYSTEM.
3. INSTALL MANUAL AIR VENTS AT ALL HIGH POINTS. EVERY TIME HYDRONIC PIPING CHANGES IN ELEVATION AND AIR CAN GET TRAPPED, AN AIR VENT SHALL BE PLACED. AIR VENTS SHALL ALL BE ACCESSIBLE. DO NOT INSTALL ABOVE ANY EQUIPMENT, DUCTWORK, PIPING, CONDUIT, ETC. IF AIR VENTS ARE INSTALLED ABOVE HARD CEILING, PROVIDE AN 18"X18" ACCESS DOOR.
4. ALL PETE'S PLUGS SHALL BE AT LEAST 3/8".
5. REFRIGERANT PIPING SHALL BE INSULATED WITH 1.5" THICK, EPDM CLOSED CELL FOAM INSULATION AND COVERED WITH ALUMINUM JACKETING WHEN EXPOSED. THIS APPLIES TO EXTERIOR AND EXPOSED IN MECHANICAL ROOM. ONLY PLACE REFRIGERANT PIPING SHALL NOT HAVE ALUMINUM COVERED IS INSIDE WALL CAVITY.
6. CONDENSATE PIPING SHALL BE INSULATED WITH 3/4" THICK, EPDM CLOSED CELL FOAM INSULATION.

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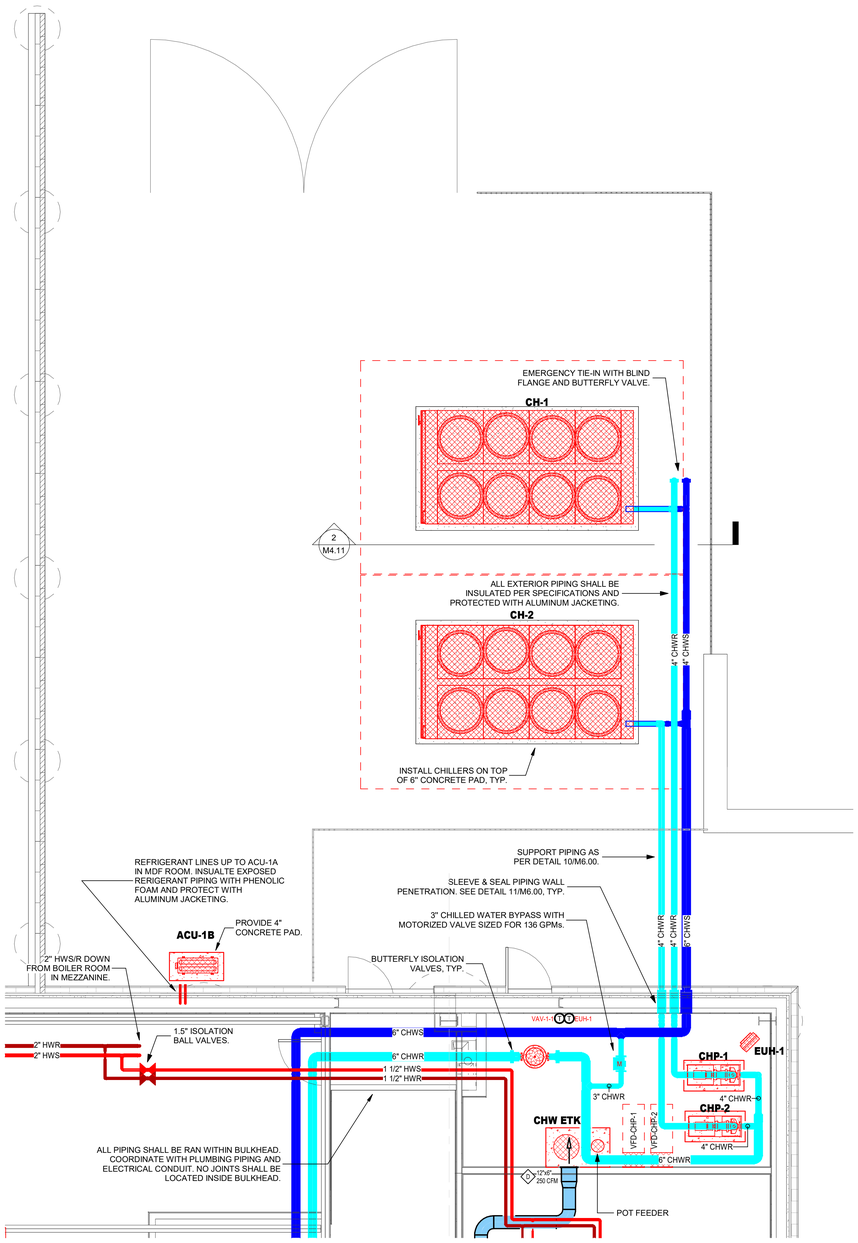
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	MH
Drawn By	MH

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SHEET TITLE
MECHANICAL PIPING FLOOR PLANS

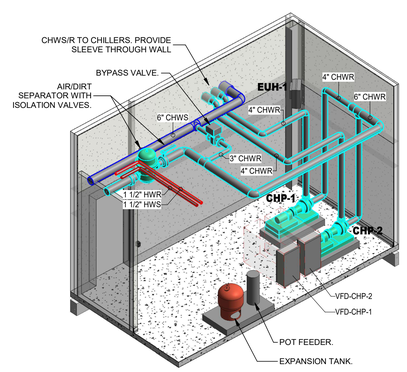
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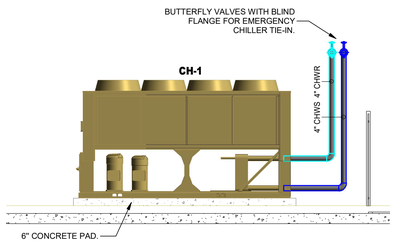
1 MECHANICAL YARD

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



3 MECHANICAL 3D VIEW- CENTRAL PLANT

SCALE=



2 MECHANICAL SECTION VIEW - CH 1

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

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SHEET TITLE
MECHANICAL YARD

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M4.11

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AIR HANDLING UNIT SCHEDULE

	MARK	AHU-1	AHU-2	AHU-3	OAHU-1
CABINET	TYPE	VAV-HDT	VAV-HDT	VAV-HDT	SZ-HDT
	FAN TYPE / DISCHARGE	VFD / HORIZONTAL	VFD / HORIZONTAL	VFD / HORIZONTAL	VFD / HORIZONTAL
	TOTAL CFM	4,000	11,000	4,000	8,000
	O/A CFM	1,700	3,700	600	8,000
	EXT. STATIC WG	1.5"	1.5"	1.5"	1.0"
	FAN QUANTITY	1	1	1	1
	EQUIPMENT HP	3.5	10	3.5	7.5
	VOLTAGE	460/3/60	460/3/60	460/3/60	460/3/60
COOLING	COIL CFM	4,000	11,000	4,000	8,000
	MIN. ROWS	6	6	6	6
	MAX FINS / INCH	12	12	12	12
	FACE VELOCITY	500 FPM	500 FPM	500 FPM	450 FPM
	EAT db, °F	74	74	74	98.9
	EAT wb, °F	62.5	62.5	62.5	80
	LAT db, °F	50.9	51.2	50.9	48.3
	LAT wb, °F	50.8	51	50.8	48.2
	GSH MBH	99.1	270	99.1	409
	GTH MBH	130	352	130	806
	GPM	16.2	44.0	16.2	101
	LINE SIZE	1.25"	2"	1.25"	3"
	EWT °F	42	42	42	42
	LWT °F	57	57	57	57
	MAX. PD. FEET	12	12	12	12
	COND. DRAIN SIZE	1.0"	1.0"	1.0"	1.0"
HEATING	COIL POSITION	NO HEAT	NO HEAT	NO HEAT	PRE - HEAT
	COIL CFM				8,000
	MIN. ROWS				1
	FINS/INCH				10
	FACE VELOCITY				450 FPM
	EAT, °F				27.9
	LAT, °F				55
	GTH MBH				235
	EWT, °F				140
	LWT, °F				100
	GPM				12
	LINE SIZE				1.25"
	MAX. P.D. FEET				6

NOTES:
1. REFERENCE SHEET M7.01 FOR CONTROL SCHEMATICS.
2. EXT. SP DOES NOT INCLUDE FILTERS, COILS, CASING, CONVERSIONS OR MIXING DAMPER LOSSES.
3. INCLUDE 0.25" SP FOR LOADED FILTERS.
4. MOTORS SHALL BE COPPER WOUND, PREMIUM EFFICIENCY TYPE (+90% MINIMUM).
5. ECM MOTORS ARE NOT ACCEPTABLE.
6. PROVIDE 2" THICK MERV 13 FILTERS WITH MAXIMUM FILTER VELOCITY AT 350 FT / MIN.
7. ALL UNITS SHALL BE INTERNALLY ISOLATED.
8. DESIGN FAN HP IS MOTOR SIZE WIRED BY ELECTRICAL. MANUFACTURERS REQUIRING LARGER MOTORS MUST PAY FOR INCREASED CIRCUIT COSTS. SMALLER MOTORS MAY BE PROVIDED IF BHP IS LESS THAN SCHEDULED AND A 1/4" WG PRESSURE DROP DOES NOT OVERLOAD MOTOR.
9. PROVIDE 2" VIBRATION ISOLATORS BETWEEN AHU AND CONCRETE PAD.
10. MIXING BOX SHALL BE PROVIDED BY MANUFACTURER. COORDINATE WITH DUCTWORK SIZE FOR OPENINGS.

AIR-COOLED CHILLER SCHEDULE

	MARK	CH-1	CH-2
CHILLER	CAPACITY TONS, NOMINAL	110	110
	CAPACITY TON, ACTUAL	104.6	104.6
	COOLER FLOW RATE, GPM	166 GPM	166 GPM
	MINIMUM FLOW RATE, GPM	136 GPM	136 GPM
	EWT, ° F	57°F	57°F
	LWT, ° F	42°F	42°F
	MAX. P.D.	12 FT	12 FT
	FOUL'G FACTOR	0.0001	0.0001
MISC	COMPRESSOR TYPE	SCROLL	SCROLL
	REFRIGERANT	R-454B	R-454B
	EER/IPLV (AHRI)	10.62 / 16.06	10.62 / 16.06
	VOLTAGE	460V / 3 PH	460V / 3 PH
	MCA / MOCP, AMPS	227 / 300	227 / 300
	TRANE #	CGAM	CGAM

NOTES:
1. CHILLERS SHALL HAVE ONE (1) POINT POWER CONNECTION.
2. PROVIDE CONDENSER COILS WITH PHENOLIC COATING USING A DIP AND BAKE PROCESS. THE ENTIRE TUBES, FINS AND HEADERS SHALL BE COATED.
3. AMBIENT AIR = 100°F.
4. PROVIDE EXTRA HIGH EFFICIENCY/PERFORMANCE & HIGH AMBIENT OPTIONS TO OPERATE AT 115°F.
5. PROVIDE HEAD PRESSURE CONTROLS FOR OPERATION DOWN TO 20°F AMBIENT.
6. PROVIDE 10-YEAR PARTS, LABOR, AND REFRIGERANT WARRANTY.
7. LOUVERED COIL GUARDS AND COMPRESSOR ACCESS WIRE GUARDS.
8. PROVIDE LOW NOISE CONDENSER FANS AND COMPRESSORS SOUND TREATMENT.
9. PROVIDE LOW AMBIENT KIT AND BARREL HEATER ON EMERGENCY GENERATOR.

CONDENSING BOILER SCHEDULE

MARK	BR-1
INPUT MBH	1,000
OUTPUT MBH	977
MIN. EFFICIENCY	98%
MAX OPERATING PRESSURE	80 PSI
GAS PRESSURE	3" - 14" WC
SYSTEM GPM	49 GPM
EWT / LWT, °F	100°F / 140°F
MAX. PD, FT	10 FT.
VOLTAGE	120V / 1 PH / 60 HZ
MCA / MOCP	12.7 A / 20 A
MANUFACTURER	VIESSMANN
MODEL #	VITOCROSSAL 200 CI2-1000

NOTES:
1. BOILER MANUFACTURER TO PROVIDE CATEGORY IV FLUE VENT, ACID NEUTRALIZING KIT, CO MONITOR, GAS PRESSURE REDUCING VALVES VENTED TO THE OUTSIDE FOR EACH BOILER.
2. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE BOILER MANUFACTURER PRIOR TO COMMENCING INSTALLATION OF PIPING AND FLUE VENT.

PUMP SCHEDULE

MARK	CHP- 1 & 2	HWP- 1	HWP- 2
SERVES	CHILLED WATER	HOT WATER	HOT WATER CIRCULATION
TYPE	END SUCTION	END SUCTION	INLINE
GPM	166 GPM	49 GPM	49 GPM
HEAD FT.	50 FT	70 FT	20 FT
MIN. EFF. %	75%	66%	70%
MAX. RPM	1760 RPM	1750 RPM	1750 RPM
DESIGN H.P.	3 HP	3 HP	1 HP
MOTOR ENCLOSURE	TEFC	TEFC	TEFC
VOLTAGE	460V / 3 PH	460V / 3 PH	460V / 3 PH
S/D SIZE	3" X 2.5"	1.5" X 1.25"	2" X 2"
ARMSTRONG MODEL	4280	4280	4360

NOTE: SEE DRAWING 3/M6.02 FOR DETAIL

MOTOR STARTER REQUIREMENTS

EQUIPMENT	STARTER TYPE	PROVIDED UNDER
CHW-1 & 2	VARIABLE FREQUENCY	MECHANICAL
HWP-1& 2	VARIABLE FREQUENCY	MECHANICAL
ALL AHUS	VARIABLE FREQUENCY	MECHANICAL
ALL EXHAUST FANS	STANDARD	MECHANICAL
ALL FPB BOXES	STANDARD	MECHANICAL
ALL VAV BOXES	STANDARD	MECHANICAL
ALL OTHER MOTORS	STANDARD	MECHANICAL

NOTES:
1. MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR MOTOR STARTER PROCUREMENT.

MDF A/C UNITS (ACU)

ACU-1A (INDOOR UNIT): MITSUBISHI MSY-D36NA, 36.0 MBH
COOLING CAPACITY, 15.1 SEER, WIRED CONTROLLER

ACU-1B (OUTDOOR UNIT): MITSUBISHI MUY-D36NA, 36.0 MBH
COOLING CAPACITY, E-COATED COIL.

POWER SUPPLY: 208V / 1PH / 60HZ, 25A MCA / 35A MOCP.

ACCESSORIES: LOW AMBIENT KIT & CRANKCASE HEATER

REFRIGERANT PIPING SIZE SHALL BE AS REQUIRED BY THE MANUFACTURER

AIR DEVICE SCHEDULE

MARK	DESCRIPTION
A A1	CEILING SUPPLY DIFFUSER - 24" X 24" FACE, PATTERN TYPE, ALUMINUM CONSTRUCTION, WHITE FINISH PRICE SPD A1 = 12" X 12" FACE
B B1	CEILING RETURN GRILLE - 24" X 24" PERFORATED FACE, ALUMINUM CONSTRUCTION, WHITE FINISH PRICE PDDR B1 = 12" X 12" FACE
C	CEILING EXHAUST GRILLE - 24" X 24" PERFORATED FACE, ALUMINUM CONSTRUCTION, WHITE FINISH PRICE PDDR
D	SIDEWALL SUPPLY GRILLE - DOUBLE DEFLECTION, ALUMINUM CONSTRUCTION, ADJUSTABLE BLADES, WHITE FINISH UNLESS OTHER OTHERWISE ON DRAWINGS. SIZE SPECIFIED ON DRAWINGS. PRICE 600.
E	SIDEWALL RETURN GRILLE - DOUBLE DEFLECTION, ALUMINUM CONSTRUCTION, ADJUSTABLE BLADES, WHITE FINISH UNLESS OTHER OTHERWISE ON DRAWINGS. SIZE SPECIFIED ON DRAWINGS. PRICE 600.
F	CUSTOM FLOW LINEAR SLOT DIFFUSER - 60" LONG, 2-SLOT, 1.5" WIDE SLOT, 12"ø INLET, W/ INSULATED PLENUM, ADJUSTASLOT PATTERN CONTROLLER. PRICE 600.

NOTES:
1 REFER TO ARCHITECTURAL REFLECTED CEILING PLAN TO VERIFY CEILING TYPE FOR EACH AIR DEVICE.
2. AIR DEVICES TO HAVE COLOR/FINISH INDICATED ON SCHEDULE UNLESS NOTED OTHERWISE ON DRAWINGS. ALL AIR DEVICES SHALL COME FACTORY PAINTED. FIELD PAINTING IS NOT ACCEPTABLE.

FAN POWERED BOX SCHEDULE

MARK	COOLING MAX	COOLING MIN	REHEAT	DIAMETER	E.S.P (W.G)	VELOCITY	HP	MCA	MOCP	VOLTS	HEATING MBH	HEATING GPM	PIPE SIZE & CONN. SIDE	PRICE MODEL #
FPB-1-1	600	180	360	8	0.3"	1719	0.75 HP	1.91	15	277V	13.6	0.7	3/4", RH	FDC
FPB-1-2	600	180	360	8	0.3"	1719	0.75 HP	1.91	15	277V	13.6	0.7	3/4", RH	FDC
FPB-1-3	475	143	285	8	0.3"	1361	0.75 HP	1.91	15	277V	10.8	0.5	3/4", RH	FDC
FPB-1-4	550	165	330	8	0.3"	1576	0.75 HP	1.91	15	277V	12.5	0.6	3/4", RH	FDC
FPB-1-5	750	225	450	10	0.3"	1375	0.75 HP	1.91	16	277V	17.0	0.9	3/4", RH	FDC
FPB-1-6	600	180	360	8	0.3"	1719	0.75 HP	1.91	15	277V	13.6	0.7	3/4", LH	FDC
FPB-1-7	600	180	360	8	0.3"	1719	0.75 HP	1.91	15	277V	13.6	0.7	3/4", LH	FDC
FPB-2-1	700	210	420	10	0.3"	1283	0.75 HP	1.91	15	277V	15.9	0.8	3/4", LH	FDC
FPB-2-2	600	180	360	8	0.3"	1719	0.75 HP	1.91	15	277V	13.6	0.7	3/4", RH	FDC
FPB-2-3	600	180	360	8	0.3"	1719	0.75 HP	1.91	15	277V	13.6	0.7	3/4", RH	FDC
FPB-2-4	600	180	360	8	0.3"	1719	0.75 HP	1.91	15	277V	13.6	0.7	3/4", LH	FDC
FPB-2-5	200	60	120	6	0.3"	1019	0.75 HP	1.91	15	277V	4.5	0.2	3/4", RH	FDC
FPB-2-6	400	120	240	8	0.3"	1146	0.75 HP	1.91	15	277V	9.1	0.5	3/4", LH	FDC
FPB-2-7	350	105	210	6	0.3"	1783	0.75 HP	1.91	15	277V	7.9	0.4	3/4", LH	FDC
FPB-2-8	200	60	120	6	0.3"	1019	0.75 HP	1.91	15	277V	4.5	0.2	3/4", LH	FDC
FPB-2-9	325	98	195	6	0.3"	1655	0.75 HP	1.91	15	277V	7.4	0.4	3/4", RH	FDC
FPB-2-10	600	180	360	8	0.3"	1719	0.75 HP	1.91	15	277V	13.6	0.7	3/4", RH	FDC
FPB-2-11	600	180	360	8	0.3"	1719	0.75 HP	1.91	15	277V	13.6	0.7	3/4", LH	FDC
FPB-2-12	650	195	390	8	0.3"	1862	0.75 HP	1.91	15	277V	14.7	0.7	3/4", RH	FDC
FPB-2-13	650	195	390	8	0.3"	1862	0.75 HP	1.91	15	277V	14.7	0.7	3/4", LH	FDC
FPB-2-14	600	180	360	8	0.3"	1719	0.75 HP	1.91	15	277V	13.6	0.7	3/4", LH	FDC
FPB-2-15	600	180	360	8	0.3"	1719	0.75 HP	1.91	15	277V	13.6	0.7	3/4", RH	FDC
FPB-2-16	650	195	390	8	0.3"	1862	0.75 HP	1.91	15	277V	14.7	0.7	3/4", LH	FDC
FPB-2-17	650	195	390	8	0.3"	1862	0.75 HP	1.91	15	277V	14.7	0.7	3/4", RH	FDC
FPB-3-1	700	210	420	10	0.3"	1283	0.75 HP	1.91	15	277V	15.9	0.8	3/4", RH	FDC
FPB-3-2	600	180	360	8	0.3"	1719	0.75 HP	1.91	15	277V	13.6	0.7	3/4", RH	FDC
FPB-3-3	200	60	120	6	0.3"	1019	0.75 HP	1.91	15	277V	4.5	0.2	3/4", LH	FDC
FPB-3-4	600	180	360	8	0.3"	1719	0.75 HP	1.91	16	277V	13.6	0.7	3/4", LH	FDC
FPB-3-5	650	195	390	8	0.3"	1862	0.75 HP	1.91	17	277V	14.7	0.7	3/4", RH	FDC
FPB-3-6	200	60	120	6	0.3"	1019	0.75 HP	1.91	18	277V	4.5	0.2	3/4", RH	FDC
FPB-3-7	500	150	300	8	0.3"	1432	0.75 HP	1.91	19	277V	11.3	0.6	3/4", LH	FDC
FPB-3-8	700	210	420	10	0.3"	1283	0.75 HP	1.91	20	277V	15.9	0.8	3/4", RH	FDC
FPB-3-9	250	75	150	6	0.3"	1273	0.75 HP	1.91	21	277V	5.7	0.3	3/4", LH	FDC
FPB-3-10	200	60	120	6	0.3"	1019	0.75 HP	1.91	22	277V	4.5	0.2	3/4", RH	FDC

NOTES:
1. FAN POWERED BOXES SHALL HAVE DIRECT DRIVE MOTOR WITH SPEED CONTROLLER, 277V/1PH POWER. ECM MOTORS ARE NOT ACCEPTABLE.
2. ALL UNITS REQUIRING HEAT SHALL BE EQUIPPED WITH HOT WATER HEATING COIL.
3. STATIC PRESSURES SHOWN ARE EXTERNAL TO UNITS. MANUFACTURER SHALL ADD DAMPER, HEATING COIL, CASING, FILTER, AND OTHER UNIT LOSSES BEFORE SELECTING FAN.
4. HEATING CAPACITY IS BASED ON COLD AIR AT 55ºF AND VALVE AT 50% OPENED MIXING WITH PLENUM AIR AT 68ºF.
5. REFERENCE 13/M6.00 FOR DETAIL AND WRITTEN SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
6. TERMINAL UNIT MANUFACTURER MUST FACTORY MOUNT, WIRE, AND PROGRAM DDC CONTROLLER AND CONTROL DEVICES.
7. ENTERING WATER TEMPERATURE IS 140°F

EXHAUST AND SUPPLY FANS SCHEDULE

MARK	SERVES	INTERLOCK	TYPE	DRIVE	CFM	STATIC PRESSURE	RPM	DESIGN H.P.	VOLTAGE	MANUFACTURER	MODEL #	NOTES
EF-1	RESTROOMS	BAS	INLINE	DIRECT	75 CFM	0.375"	1565	0.05 HP	120V	GREENHECK	SQ-70-VG	1,2,3
EF-2	RESTROOMS	BAS	INLINE	DIRECT	150 CFM	0.375"	1683	0.04 HP	120V	GREENHECK	SQ-70-VG	1,2,3
EF-3	RESTROOMS	BAS	INLINE	DIRECT	75 CFM	0.375"	1565	0.05 HP	120V	GREENHECK	SQ-70-VG	1,2,3
EF-4	RESTROOMS	BAS	INLINE	DIRECT	150 CFM	0.375"	1683	0.04 HP	120V	GREENHECK	SQ-70-VG	1,2,3
EF-5	RESTROOMS	BAS	INLINE	DIRECT	150 CFM	0.50"	1397	0.09 HP	120V	GREENHECK	SQ-97-VG	1,2,3
EF-6	RESTROOMS	BAS	INLINE	DIRECT	150 CFM	0.375"	1683	0.04 HP	120V	GREENHECK	SQ-70-VG	1,2,3
EF-7	CUSTODIAL STORAGE	BAS	INLINE	DIRECT	225 CFM	0.50"	1226	0.07 HP	120V	GREENHECK	SQ-98-VG	1,2,3
SF-1	MDF ROOM	THERMOSTAT	INLINE	DIRECT	400 CFM	0.375"	1475	0.05 HP	120V	GREENHECK	SQ-90-VG	1,2,3
SF-2	BOILER ROOM	THERMOSTAT	INLINE	DIRECT	400 CFM	0.375"	1475	0.05 HP	120V	GREENHECK	SQ-90-VG	1,2,3

NOTES:
1. STATIC PRESSURE SHOWN IS EXTERNAL TO UNIT. MANUFACTURER SHALL ADD DAMPER AND ACCESSORY LOSSES TO THIS VALUE BEFORE SELECTING FAN.
2. DISCONNECT SWITCH WITH SPEED CONTROLLER AND HORIZONTAL VERTICAL BACKDRAFT DAMPER.
3. ECM FANS ARE NOT ACCEPTABLE. ONLY DIRECT DRIVE FANS WITH SPEED CONTROLLER ALLOWED.

VARIABLE AIR VOLUME BOX SCHEDULE

MARK	COOLING MAX	COOLING MIN	REHEAT	DIAMETER	E.S.P (W.G)	VELOCITY	VOLTS	HEATING MBH	HEATING GPM	PIPE SIZE & HAND SIDE	PRICE MODEL #
VAV-1-1	250	75	150	6	0.3"	1273	120V	5.7	0.3	3/4", RH	SDV
VAV-2-1	900	270	540	10	0.3"	1650	120V	20.4	1.0	3/4", RH	SDV
VAV-2-2	450	135	270	8	0.3"	1289	120V	10.2	0.5	3/4", RH	SDV
VAV-2-3	900	270	540	10	0.3"	1650	120V	20.4	1.0	3/4", LH	SDV
VAV-2-4	900	270	540	10	0.3"	1650	120V	20.4	1.0	3/4", LH	SDV

NOTES:
1. PROVIDE 120V TO VAV BOXES. BUILT IN TRANSFORMER TO STEP DOWN TO 24V FOR DAMPER CONTROL.
2. ALL UNITS REQUIRING HEAT SHALL BE EQUIPPED WITH HOT WATER HEATING COIL.
3. STATIC PRESSURES SHOWN ARE EXTERNAL TO UNITS. MANUFACTURER SHALL ADD DAMPER, HEATING COIL, CASING, FILTER, AND OTHER UNIT LOSSES BEFORE SELECTING...
4. HEATING CAPACITY IS BASED ON COLD AIR AT 55°F AND AIR VALVE AT 50% OPENED FOR VAV.
5. REFERENCE 16/M6.00 FOR DETAIL AND WRITTEN SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
6. TERMINAL UNIT MANUFACTURER MUST FACTORY MOUNT, WIRE, AND PROGRAM DDC CONTROLLER AND CONTROL DEVICES.
7. ENTERING WATER TEMPERATURE IS 140°F

ELECTRIC UNIT HEATER

MARK	EUH-1
SERVES	FIRE RISER B119
HEATING CAPACITY, KW	5.0 KW
AIR FLOW RATE	400 CFM
AIR TEMP. RISE	40°F
MAX. MOUNTING HEIGHT	9FT.
VOLTAGE	480V / 3PH
AMPS	6.1 A
MARKEL MODEL#	P3P5105CA1N

NOTE: PROVIDE WALL MOUNTING ACCESSORIES AND THERMOSTAT.
SOO: EUH SHALL ENERGIZE WHEN ROOM TEMP DROPS BELOW 45F AND SHALL DE-ENERGIZE WHEN ROOM TEMP REACHES 68F.

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STATE OF TEXAS
MIGUEL A. HANZE
151421
LICENSED
PROFESSIONAL ENGINEER

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

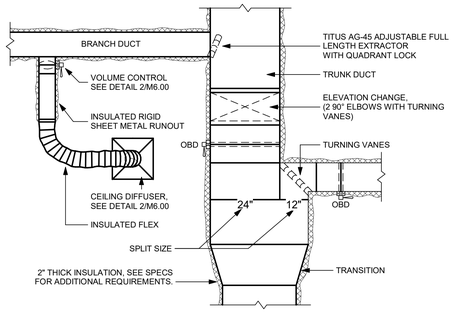
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	MH
Drawn By	MH

PROJECT NO.
25-0067.00

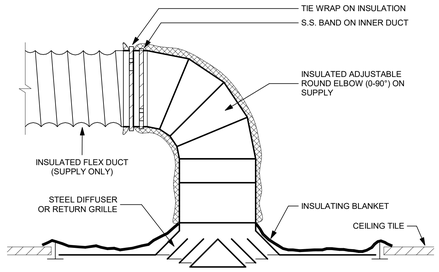
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MECHANICAL SCHEDULES

SHEET NO.
M5.00

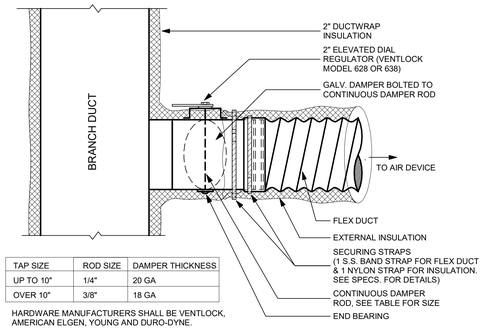
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1 DUCTWORK DETAILS
NO SCALE



2 CEILING AIR DEVICE DETAIL
NO SCALE

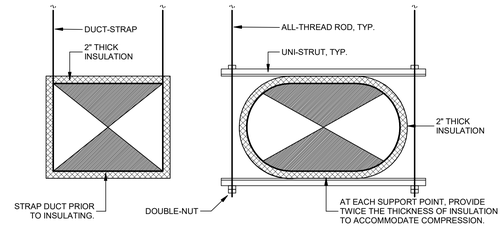


TAP SIZE	ROD SIZE	DAMPER THICKNESS
UP TO 10"	1/4"	20 GA
OVER 10"	3/8"	18 GA

HARDWARE MANUFACTURERS SHALL BE VENTLOCK, AMERICAN ELGEN, YOUNG AND DURO-DYNE.

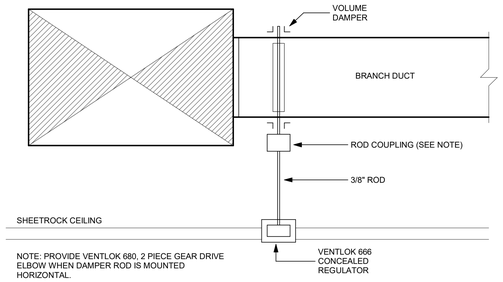
NOTE: DELETE CONICAL SECTION IF TOO LARGE FOR DUCT.

3 DUCT TAP CONNECTION DETAIL
NO SCALE

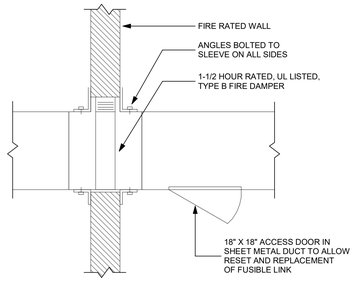


NOTE: ROUND MEDIUM PRESSURE DUCT MAY BE SUPPORTED WITH DUCT-STRAPS.

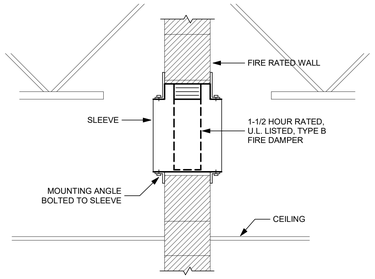
4 EXTERNALLY INSULATED DUCT SUPPORT DETAIL
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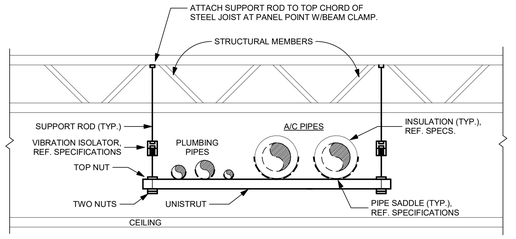
5 DUCT REGULATOR DETAIL
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6 DUCT FIRE DAMPER DETAIL
NO SCALE

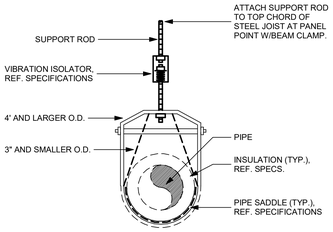


7 NON-DUCTED FIRE DAMPER DETAIL
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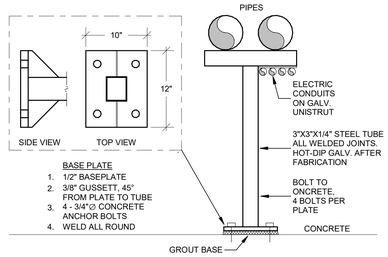


NOTE: STRAP ALL PIPING DOWN TO UNISTRUT NO MORE THAN 20 FT INTERVAL.

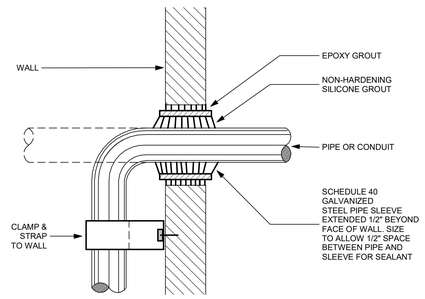
8 MULTIPLE PIPE HANGER DETAIL
NO SCALE



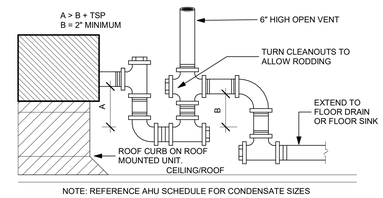
9 SINGLE PIPE HANGER DETAIL
NO SCALE



10 OUTDOOR PIPING SUPPORT DETAIL
NO SCALE

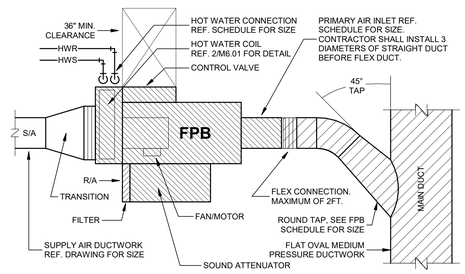


11 WALL PENETRATION DETAIL
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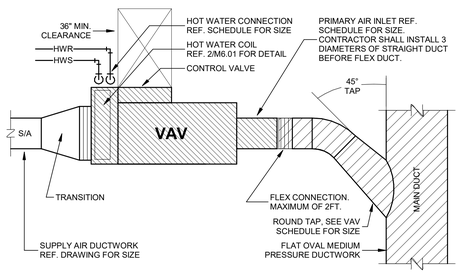


NOTE: REFERENCE AHU SCHEDULE FOR CONDENSATE SIZES

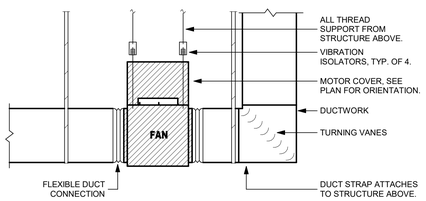
12 CONDENSATE DRAIN DETAIL
NO SCALE



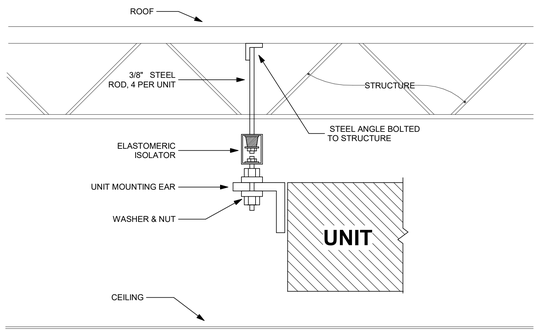
13 FAN POWERED BOX DETAIL
NO SCALE



16 VAV BOX DETAIL
NO SCALE



14 TYPICAL INLINE FAN INSTALLATION
NO SCALE



PROVIDE SELF LOCKING NUT FOR ALL HANGER RODS.

15 FPB & INLINE HANGER DETAIL
NO SCALE

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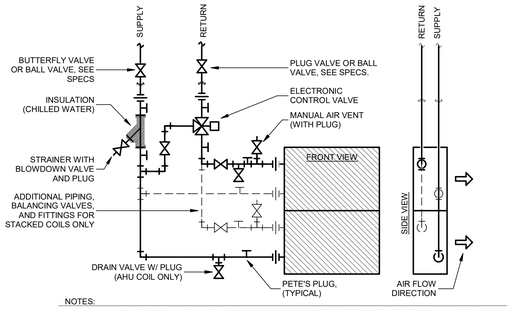
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	MH
Drawn By	MH

PROJECT NO.
25-0067.00

SHEET TITLE
MECHANICAL DETAILS

SHEET NO.
M6.00

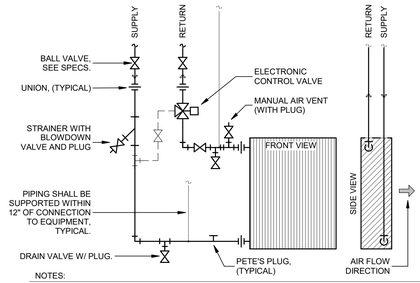
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NOTES:

1. EF SPECS FOR VALVE DESCRIPTIONS.
2. PROVIDE THREADED OR WELDED JOINTS PER SPECS.
3. P&T PORTS, BLOWDOWN VALVE, ETC. SHALL EXTEND THROUGH INSULATION
4. THIS DETAIL APPLIES TO ALL CHILLED & HOT WATER COILS FOR AHU ONLY.
5. 3-WAY CHILLED WATER VALVES: OAHU-1

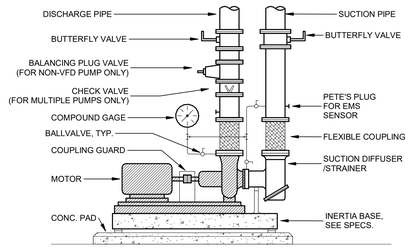
1 AHU COIL PIPING DETAIL
NO SCALE



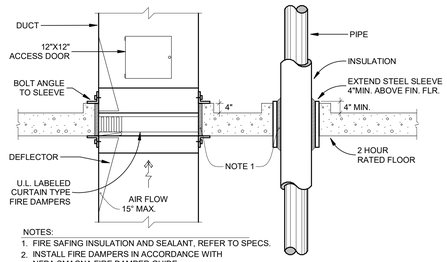
NOTES:

1. REF SPECS FOR VALVE DESCRIPTIONS
2. PROVIDE THREADED OR WELDED JOINTS PER SPECS.
3. P&T PORTS, BLOWDOWN VALVE, ETC. SHALL EXTEND THRU INSULATION.
4. PIPING SHALL BE SUPPORTED/BRACED WITHIN 12" OF CONNECTION TO EQUIPMENT.
5. 3-WAY HOT WATER VALVES: FPB-1-6, FPB-3-3, VAV-2-5, & VAV-2-1

2 CVB/VAV COIL PIPING DETAIL
NO SCALE



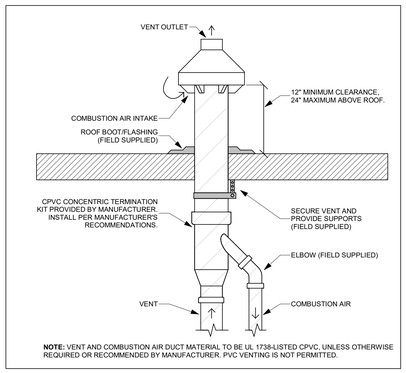
3 END SUCTION PUMP
NO SCALE



NOTES:

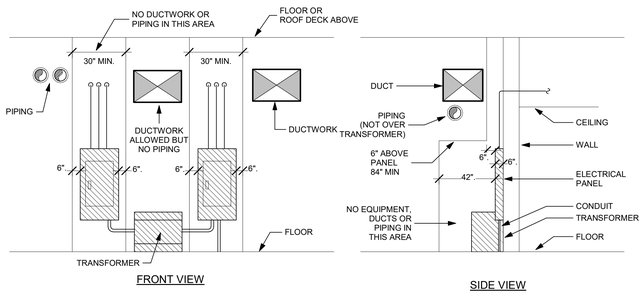
1. FIRE SAFING INSULATION AND SEALANT, REFER TO SPECS.
2. INSTALL FIRE DAMPERS IN ACCORDANCE WITH NFPA SMACNA FIRE DAMPER GUIDE.

4 FLOOR PENETRATION FIRE BARRIER DETAIL
NO SCALE



NOTE: VENT AND COMBUSTION AIR DUCT MATERIAL TO BE UL 1738-LISTED CPVC, UNLESS OTHERWISE REQUIRED OR RECOMMENDED BY MANUFACTURER. PVC VENTING IS NOT PERMITTED.

5 CONCENTRIC VENT DETAIL
NO SCALE



6 MECHANICAL - ELECTRICAL COORDINATION DETAIL
NO SCALE

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151421
LICENSED PROFESSIONAL ENGINEER
MECHANICAL

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

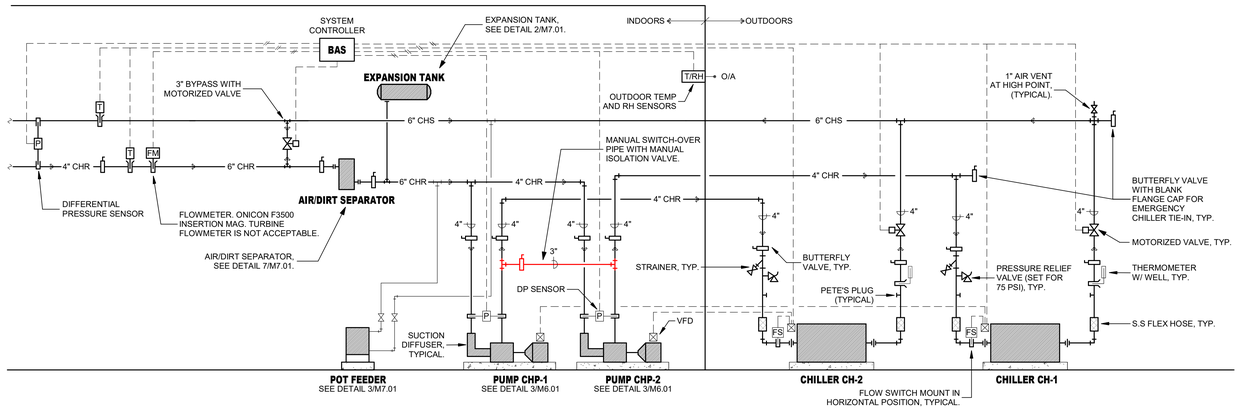
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	MH
Drawn By	MH

PROJECT NO.
25-0067.00

SHEET TITLE
MECHANICAL DETAILS

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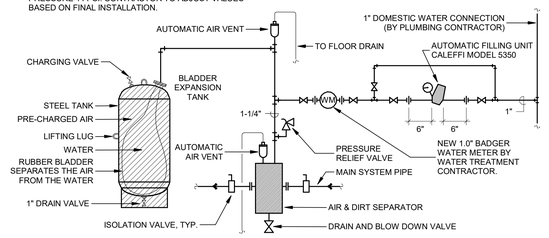


1 AIR-COOLED CHILLED WATER SYSTEM PIPING AND CONTROL SCHEMATIC

NO SCALE

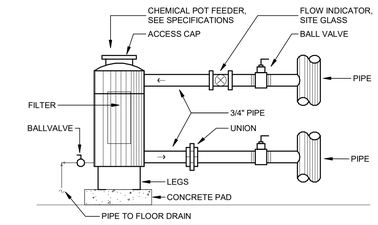
1. CHILLED WATER SYSTEM -TACO CA-90-125: 23 GAL. ACCEPTANCE, FILL PRESSURE 15 PSI, TANK PRESSURE 14 PSI. CONTRACTOR TO ADJUST VALUES BASED ON FINAL INSTALLATION.

2. HOT WATER SYSTEM -TACO CA-140-125: 37 GAL. ACCEPTANCE, FILL PRESSURE 15 PSI, TANK PRESSURE 14 PSI. CONTRACTOR TO ADJUST VALUES BASED ON FINAL INSTALLATION.



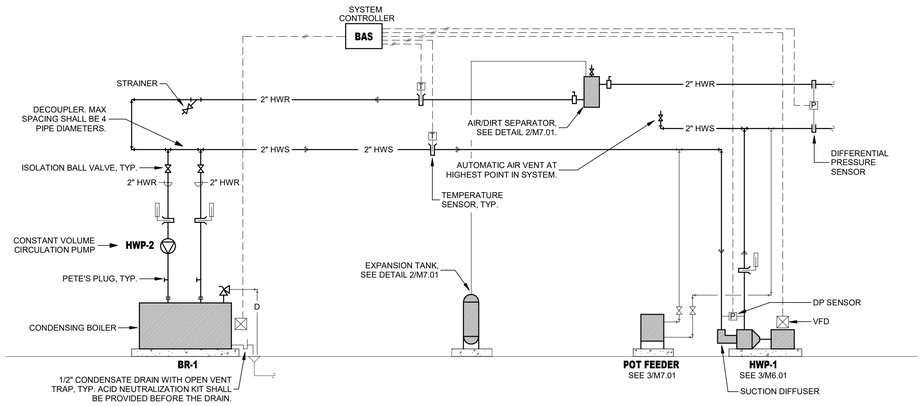
2 AIR SEPARATOR AND EXPANSION TANK DETAIL

NO SCALE



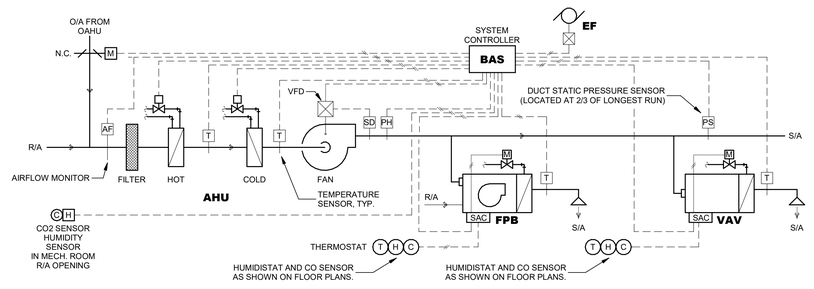
3 CHEMICAL POT FEEDER / FILTER

NO SCALE



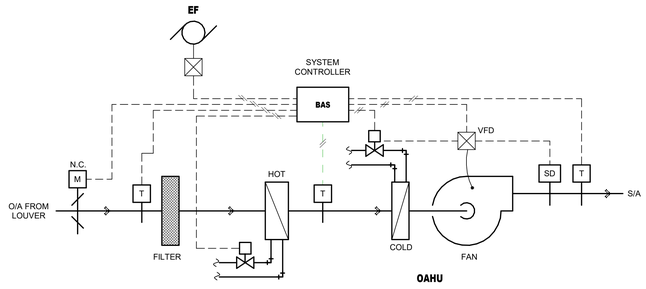
4 HOT WATER PIPING AND CONTROL SCHEMATICS

NO SCALE



5 VAV AHU CONTROL SCHEMATICS

NO SCALE



6 OAHU CONTROLS SCHEMATIC

NO SCALE

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Drawn By	MH

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SHEET TITLE

MECHANICAL SCHEMATICS

SHEET NO.

M7.01

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CHILLED WATER SYSTEM TYPE 1A

AHU's CHW PLANT

POINT DESCRIPTION	REQD.	OVRIDE	TYPE	DEVICE	ALARM	NOTES
CH START/STOP (EA)	X	X	DO	CONTROL RELAY		
CH %RLA (EA)	X		AI	CURRENT TRANSDUCER		BACNET INPUT FROM CHILLER IN LIEU OF CURRENT TRANSDUCER OK IF AVAILABLE
CH ALARM (EA)	X		DI	LATCHING RELAY ON CH (REQ. MANUAL RESET)	X	
CH EVAP LWT (EA)	X		AI	RTD, PIPE MOUNTED		MATCHED TO THERMOWELL
CH LWT RESET (EA)	X		AO	CH. CONTROL MODULE		
CH EVAP RETURN TEMP (EA)	X		AI	RTD, PIPE MOUNTED		MATCHED TO THERMOWELL
CHILLER BACNET INTEGRATION (EA)	X		READ	BACNET CARD		
CHWP START FROM CHILLER (EA)	X		DI	CHILLER DRY CONTACTS		
PCHW PUMP START/STOP (EA)	X	X	DO	CONTROL RELAY		
PCHW PUMP SPEED (EA)	X		AO	VFD / SPEED CONTROLLER		
PCHW PUMP STATUS (EA)	X		DI	CURRENT SWITCH	X	
EVAP. ISOLATION VALVE (EA)			AO	MODULATING VALVE ACTUATOR		
EVAP. ISOLATION VALVE FEEDBACK (EA)			AI	MODULATING VALVE ACTUATOR FEEDBACK	X	
EVAP. DIFFERENTIAL PRESSURE (EA)			AI	LOW RANGE DP SENSOR		
PRIMARY COMMON SUPPLY TEMP	X		AI	RTD, PIPE MOUNTED		MATCHED TO THERMOWELL
PRIMARY COMMON RETURN TEMP	X		AI	RTD, PIPE MOUNTED		MATCHED TO THERMOWELL
PRIMARY CHILLED WATER GPM	X		AI	INSERTION MAG OR ULTRASONIC FLOWMETER		
CHW BYPASS VALVE	X		AO	MODULATING VALVE ACTUATOR		REMOTE-MOUNTED WIRED BACK TO CHILLER PLANT CONTROLLER ON SAME CONTOLLER AS BUILDING FLOWMETER
CHW BYPASS VALVE FEEDBACK	X		AI	MODULATING VALVE ACTUATOR		REMOTE-MOUNTED WIRED BACK TO CHILLER PLANT CONTROLLER ON SAME CONTOLLER AS BUILDING FLOWMETER
BUILDING SUPPLY TEMP (EA)	X		AI	RTD, PIPE MOUNTED	X	CRITICAL & HIGH PRIORITY, MATCHED TO THERMOWELL
BUILDING RET. TEMP (EA)	X		AI	RTD, PIPE MOUNTED		MATCHED TO THERMOWELL
BUILDING GPM (EA)	X		AI	INSERTION MAG OR ULTRASONIC FLOWMETER		
BUILDING DP (EA)	X		AI	DP TRANSDUCER, PIPE MOUNTED		

HEATING HOT WATER SYSTEM TYPE 2A

BOILER PLANT

POINT DESCRIPTION	REQD.	OVRIDE	TYPE	DEVICE	ALARM	NOTES
BOILER START/STOP (MASTER)	X	X	DO	CONTROL RELAY		SEE NOTE BELOW
HHW SETPOINT (MASTER)	X		AO	BOILER LEAD CONTROLLER INPUT		SIGNAL DOUBLES AS S/S ON SOME SYSTEMS
BOILER ALARM (EA)	X		DI	SAFTEY RELAY	X	
BOILER FAN STATUS (EA)	X		DI	CURRENT SWITCH		
BOILER PUMP STATUS (EA)	X		DI	CURRENT SWITCH		
BOILER STACK TEMP (EA)	X		AI	RTD, FLUE MOUNTED		
BOILER OPERATING STATUS (EA)	X		READ	BACNET CARD		FIRING RATE, PURGE STATUS, ETC.
BOILER LWT (EA)	X		AI	RTD, PIPE MOUNTED		MATCHED TO THERMOWELL
BOILER LOOP COMMON SUPPLY TEMP	X		AI	RTD, PIPE MOUNTED		MATCHED TO THERMOWELL
BOILER LOOP COMMON RETURN TEMP	X		AI	RTD, PIPE MOUNTED		MATCHED TO THERMOWELL
BUILDING LOOP COMMON SUPPLY TEMP	X		AI	RTD, PIPE MOUNTED		MATCHED TO THERMOWELL
BUILDING LOOP COMMON RETURN TEMP	X		AI	RTD, PIPE MOUNTED		MATCHED TO THERMOWELL
BUILDING PUMP START/STOP (EA)	X	X	DO	CONTROL RELAY		
PUMP STATUS (EA)	X		DI	CURRENT SWITCH	X	
PUMP SPEED (EA)	X	X	AO	VFD / SPEED CONTROLLER		
BUILDING SUPPLY TEMP	X		AI	RTD, PIPE MOUNTED		MATCHED TO THERMOWELL
BUILDING RETURN TEMP	X		AI	RTD, PIPE MOUNTED		MATCHED TO THERMOWELL
BUILDING DP	X		AI	DP TRANSDUCER, PIPE MOUNTED		

ZONE CONTROL

APPLIES TO UNITS: ALL SDVAV AHU VAV BOXES W/REHEAT (NO FAN)

POINT DESCRIPTION	REQD.	OVRIDE	TYPE	DEVICE	ALARM	NOTES
ZONE DAMPER	X	X	AO	ACTUATOR		
ZONE REHEAT VALVE	X	X	AO	ACTUATOR		
ZONE DISCH TEMP	X		AI	SINGLE PROBE		LOCATED FAR ENOUGH DOWNSTREAM OF COIL TO AVOID RADIATION
ZONE SPACE HUMIDITY	X		AI	SPACE SENSOR		SEE AHU POINT LIST, TWO (2) PER AHU REQUIRED
ZONE SPACE CO2			AI	SPACE SENSOR		
SPACE TEMPERATURE	X		AI	SPACE THERMOSTAT		

ZONE CONTROL

APPLIES TO UNITS: ALL SDVAV AHU VAV BOXES (NO REHEAT, NO FAN)

POINT DESCRIPTION	REQD.	OVRIDE	TYPE	DEVICE	ALARM	NOTES
ZONE DAMPER	X	X	AO	ACTUATOR		
ZONE REHEAT VALVE			AO	ACTUATOR		
ZONE DISCH TEMP	X		AI	SINGLE PROBE		LOCATED FAR ENOUGH DOWNSTREAM OF COIL TO AVOID RADIATION
ZONE SPACE HUMIDITY			AI	SPACE SENSOR		
ZONE SPACE CO2			AI	SPACE SENSOR		
SPACE TEMPERATURE	X		AI	SPACE THERMOSTAT		

ZONE CONTROL

APPLIES TO UNITS: ALL SDVAV AHU CVB'S

POINT DESCRIPTION	REQD.	OVRIDE	TYPE	DEVICE	ALARM	NOTES
ZONE DAMPER	X	X	AO	ACTUATOR		
FAN START/STOP	X	X	BO	CONTROL RELAY		
FAN STATUS	X		AI	CURRENT TRANSDUCER		
FAN SPEED	X		AO	0-10V		BAS SHALL MODULATE FAN SPEED. MINIMUM OPERATING SPEED SHALL BE LIMITED TO 50% ADJUSTABLE.
ZONE REHEAT VALVE	X	X	AO	ACTUATOR		
ZONE DISCH TEMP	X		AI	AVERAGING PROBE		LOCATED FAR ENOUGH DOWNSTREAM OF COIL TO AVOID RADIATION
ZONE SPACE HUMIDITY	X		AI	SPACE SENSOR		SEE AHU POINT LIST, TWO(2) PER AHU REQUIRED
ZONE SPACE CO2			AI	SPACE SENSOR		
SPACE TEMPERATURE	X		AI	SPACE THERMOSTAT		

OUTSIDE AIR UNIT (OAHU) POINT LIST

APPLIES TO UNITS: OAHU-1

POINT DESCRIPTION	REQD.	OVRIDE	TYPE	DEVICE	ALARM	NOTES
OA DAMPER	X	X	AO	ACTUATOR		
OA DAMPER OPEN POSITION	X		BI	DAMPER END SWITCH		HARDWIRE INTERLOCKED WITH FAN OPERATION
OA DAMPER CLOSED POSITION	X		BI	DAMPER END SWITCH		
OA DAMPER	X	X	BI	2 POSITION DAMPER		
OA AIRFLOW			AI	AFMS		MUST BE FILTERED
OUTSIDE AIR TEMPERATURE			AI	DUCT SENSOR		
SUPPLY FAN START/STOP	X	X	DO	CONTROL RELAY		
SUPPLY FAN STATUS	X		DI	CURRENT SWITCH		
SUPPLY FAN SPEED	X		AO	VFD / SPEED CONTROLLER		
PHC CONTROL VALVE	X	X	AO	ACTUATOR		
PHC DISCHARGE TEMP	X		AI	AVG SENSOR, PROBE		
FREEZE STAT	X		BI	LOW LIMIT TEMP SWITCH		HARDWIRE INTERLOCK TO FAN AND DAMPER OPERATION
CHW VALVE	X	X	AO	ACTUATOR		
CHW DISCHARGE TEMP	X		AI	AVG SENSOR, PROBE		
DUCT STATIC SENSOR	X		AI	DUCT SENSOR		
HIGH STATIC LIMIT	X		BI	HIGH STATIC SWITCH		HARDWIRE WITH SUPPLY FAN

SDVAV AHU POINT LIST

APPLIES TO UNITS: AHU-1, 2 AND 3

POINT DESCRIPTION	REQD.	OVRIDE	TYPE	DEVICE	ALARM	NOTES
OA DAMPER	X		BO	ACTUATOR		
OA DAMPER	X	X	AO	ACTUATOR		THIS ACTUATOR IS ON THE OA DUCT NEAR THE INTAKE TO THE AHU IF SUPPLIED FROM OAHU
OA AIRFLOW			AI	AFMS		
OA TEMP			AI	AVG SENSOR, PROBE		
RA DAMPER			AO	ACTUATOR		
RA FLOW			AI	AFMS		MUST BE FILTERED
RA TEMP			AI	AVG SENSOR, PROBE		
RA RH	X		AI	DUCT SENSOR		
RA CO2	X		AI	DUCT SENSOR		
MIXED AIR TEMP			AI	AVG SENSOR, PROBE		
FREEZE STAT	X		BI	LOW LIMIT TEMP SWITCH	X	
SUPPLY FAN START/STOP	X	X	DO	CONTROL RELAY		
SUPPLY FAN STATUS	X		DI	CURRENT SWITCH	X	
SUPPLY FAN SPEED	X	X	AO	VFD / SPEED CONTROLLER		
CHW VALVE	X	X	AO	ACTUATOR		
CHW DISCHARGE TEMP	X		AI	AVG SENSOR, PROBE	X	
HIGH STATIC LIMIT	X		BI	HIGH STATIC SWITCH	X	HARDWIRE TO FAN
DUCT STATIC PRESSURE	X		AI	DUCT SENSOR		
ZONE SPACE HUMIDITY	X		AI	SPACE SENSOR		TWO (2) REQUIRED, CONFIRM WITH OWNER INSTALLATION LOCATION. EACH RH SHOULD BE PAIRED AND CO-LOCATED WITH SPACE T FOR DEWPOINT T CALCULATION (COMBINATION SENSOR PREFERRED)

EXHAUST FANS

APPLIES TO: EF-1 THRU 10

POINT DESCRIPTION	REQD.	OVRIDE	TYPE	DEVICE	ALARM	NOTES
START/STOP	X	X	DO	CONTROL RELAY		
DAMPER	X	X	HW	ACTUATOR		HARDWIRE INTERLOCK TO FAN START/STOP, WHERE SHOWN ON PLANS WITH "M" SYMBOL
SPACE TEMPERATURE			DI	TEMP SENSOR (LINE VOLTAGE)		
STATUS	X		AI	CURRENT TRANSDUCER	X	

MDF/IDF TEMPERATURES

POINT DESCRIPTION	REQD.	OVRIDE	TYPE	DEVICE	ALARM	NOTES
MDF/IDF TEMPERATURES	X		AI	SPACE THERMISTOR		

HVAC SHUTDOWN

POINT DESCRIPTION	REQD.	OVRIDE	TYPE	DEVICE	ALARM	NOTES
HVAC SHUTDOWN	X		DI	SHUTDOWN STATION	X	CRITICAL PRIORITY WHEN ACTIVATED

OUTSIDE AIR CONDITIONS

POINT DESCRIPTION	REQD.	OVRIDE	TYPE	DEVICE	ALARM	NOTES
OA TEMP	X		AI	THERMISTOR	X	COMPARE TO OA TEMP AT LOCAL AIRPORT
OA HUMIDITY	X		AI	HUMIDITY SENSOR	X	COMPARE TO HUMIDITY AT LOCAL AIRPORT

EXTERIOR LIGHTING CONTROLS

TOTAL NUMBER OF LIGHTING ZONES = SEE ELECTRICAL PLANS

POINT DESCRIPTION	REQD.	OVRIDE	TYPE	DEVICE	ALARM	NOTES
LIGHTING CONTACTOR	X	X	DO	CONTROL RELAY		
EXTERIOR LTG. OVERRIDE	X		DI	EXTERIOR OVERRIDE STATION		

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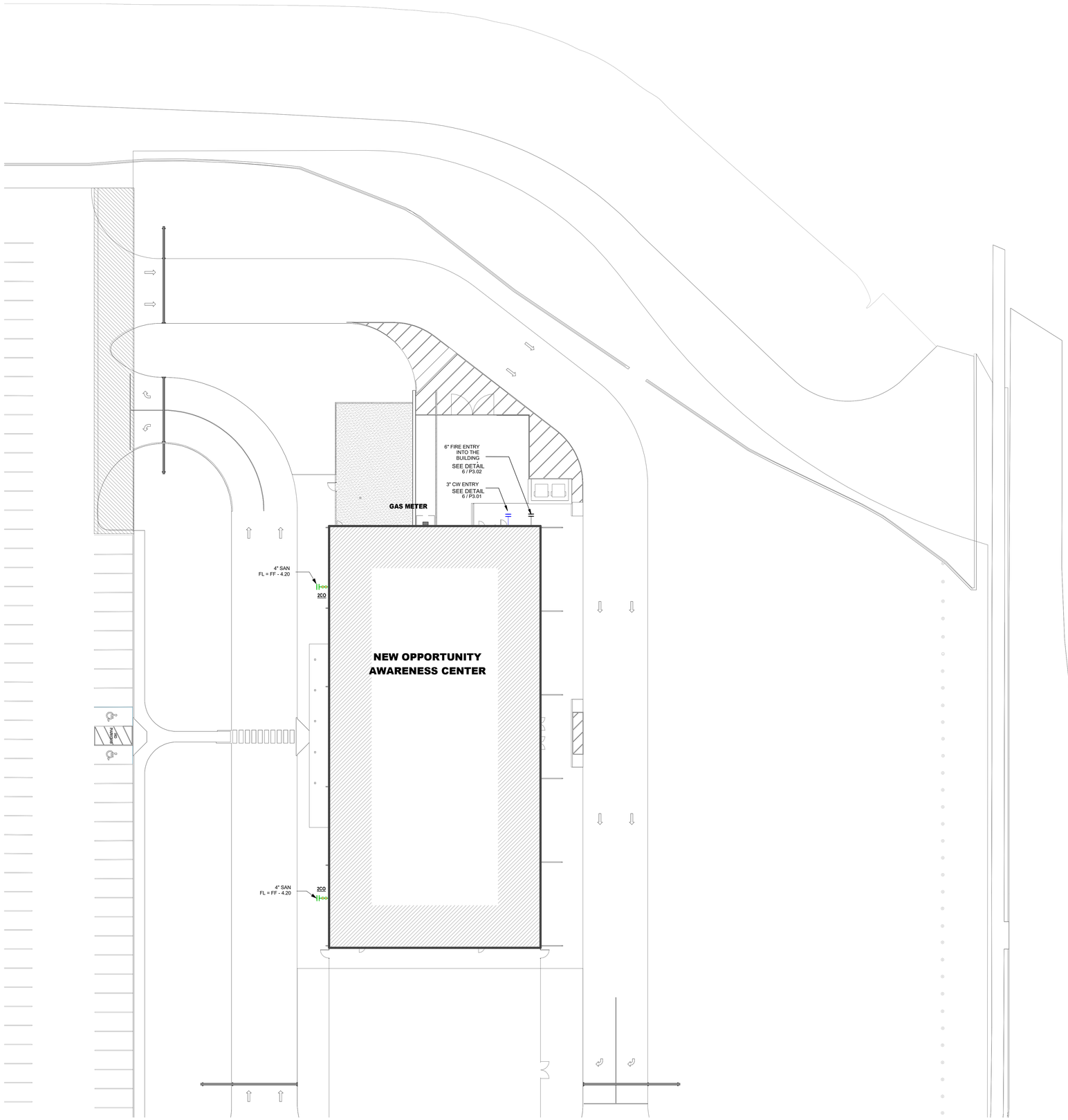
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	MH
Drawn By	MH

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SHEET TITLE
MECHANICAL POINTS LISTS

SHEET NO.
M8.01

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1 **PLUMBING SITE PLAN**

SCALE= 1" = 20'-0"

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SHEET TITLE
PLUMBING SITE PLAN

SHEET NO.
P1.11

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1 PLUMBING UNDERGROUND FLOOR PLAN

SCALE= 1/8" = 1'-0"

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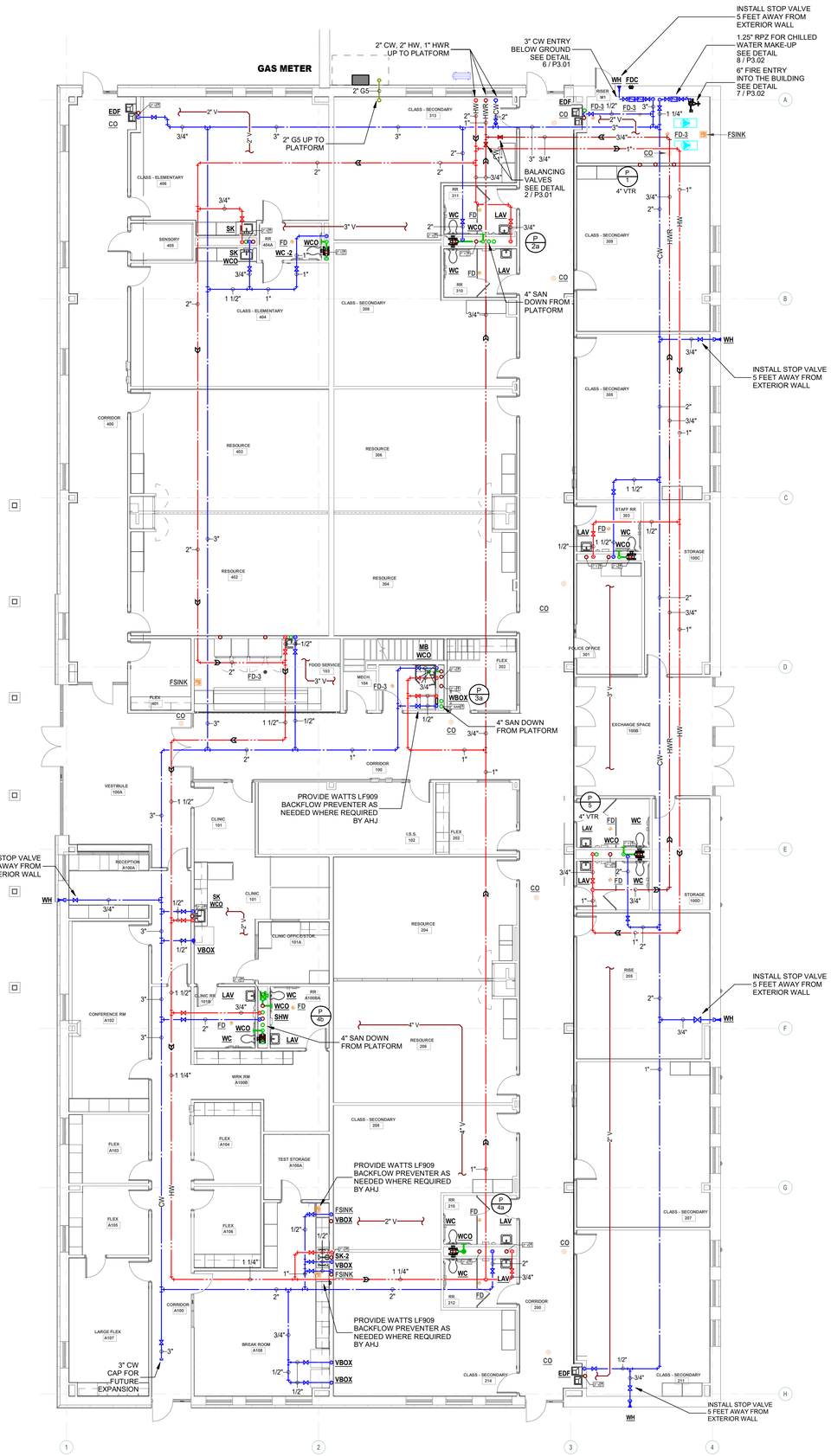
Director	Charles Johnson
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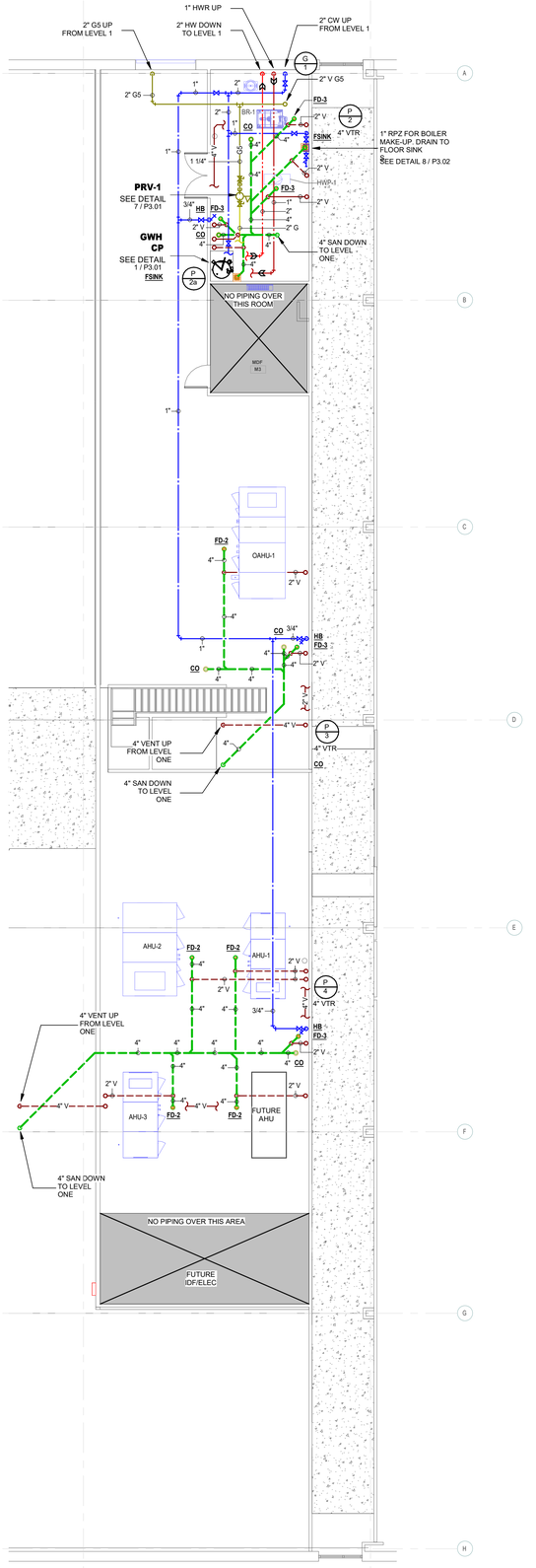
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SHEET TITLE
PLUMBING
UNDERGROUND FLOOR
PLAN

SHEET NO.
P2.10

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1 PLUMBING LEVEL ONE FLOOR PLAN

SCALE= 1/8" = 1'-0"

2 PLUMBING PLATFORM PLAN

SCALE= 1/8" = 1'-0"

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PROJECT NO.

25-0067.00

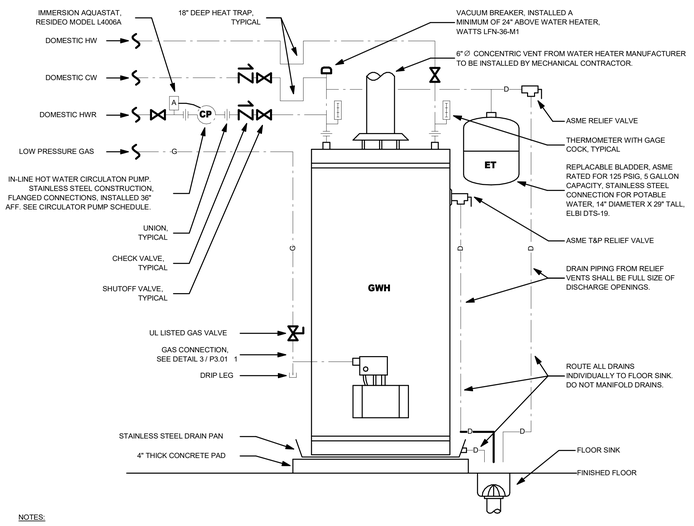
SHEET TITLE

PLUMBING LEVEL ONE FLOOR PLAN

SHEET NO.

P2.11

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GWH SCHEDULE	
MARK	GWH
SERVES	BUILDING
FUEL TYPE	NATURAL GAS
NATURAL GAS INPUT	199,900 BTUH
RECOVERY	233 GPH @ 100°F RISE
STORAGE CAPACITY	100 GALLONS
CONTROLS VOLTAGE	115 VOLTS
PVI MODEL	CONQUEST 20 L 100A-GCL

PROVIDE PRESSURE GAUGE, LOW WATER CUT OFF, FIFTEEN (15) YEAR COMMERCIAL TANK AND HEATING SURFACES WARRANTY, CONCENTRIC VENT KIT AND FACTORY AUTHORIZED STARTUP. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

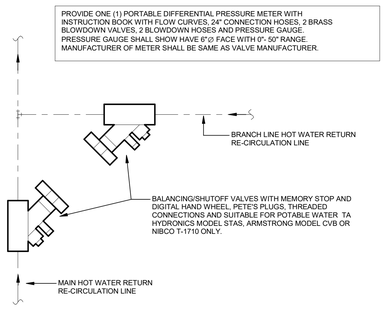
CP SCHEDULE	
MARK	CP
SERVES	GWH
CAPACITY	10 GPM @ 43' HEAD
VOLTAGE	120V (1/2 HP)
TACO MODEL	2400 3P

STAINLESS STEEL CONSTRUCTION, FLANGED CONNECTIONS. GRUNDFOS AND B&G PL SERIES ALL BRONZE PUMPS SHALL ALSO BE ACCEPTABLE.

NOTES:

1. ALL WATER HEATERS SHALL HAVE FIFTEEN (15) YEAR COMMERCIAL WARRANTY ON TANK AND ALL PARTS. ANY ITEMS NOT COVERED BY WATER HEATER MANUFACTURER'S WARRANTY SHALL BE COVERED BY THE PLUMBING CONTRACTOR. SUBMITTAL SHALL INCLUDE WRITTEN DOCUMENTATION STATING THAT TANK AND PARTS OF ALL WATER HEATERS SHALL BE COVERED FOR FIFTEEN (15) FULL YEARS FROM DATE OF OWNER ACCEPTANCE OF BUILDING. WARRANTY DOCUMENTATION SHALL ALSO LIST WHO IS PROVIDING THE WARRANTY COVERAGE.
2. PROVIDE PRESSURE GAUGE, LOW WATER CUT OFF, CONCENTRIC VENT KIT, NECESSARY VALVES AND UNIONS, 4" CONCRETE PAD, AND FACTORY AUTHORIZED STARTUP. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. ALL CIRCULATOR PUMPS ALSO CONTROLLED BY TIMECLOCK PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. CIRCULATOR PUMPS SHALL ALSO BE WIRED TO AN IMMERSION TYPE AQUASTAT (SURFACE MOUNT IS NOT ACCEPTABLE) MOUNTED ON THE HWR. RESIDEO MODEL L4006A.
4. ALL HW AND HWR PIPING INSULATED WITH 1.5" THICK FIBERGLASS MEETING ALL REQUIREMENTS OF THE INTERNATIONAL ENERGY CODE.
5. ALL HW SYSTEMS SHALL STORE AND SUPPLY 140°F WATER.

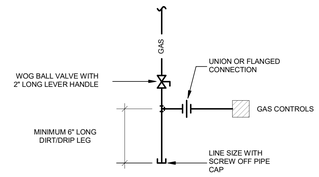
1 GAS WATER HEATER (GWH)
NO SCALE



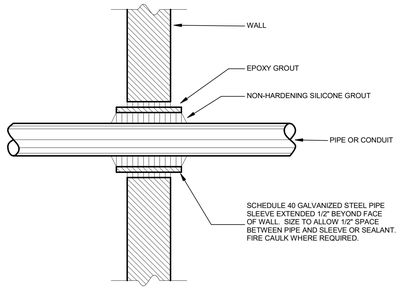
NOTES:

1. PROVIDE AT EACH JUNCTION OF BRANCH HOT WATER RETURN LOOPS TO MAIN CIRCULATING HOT WATER LINE, SEE PLUMBING PLANS.
2. PLUMBING CONTRACTOR SHALL CONTRACT A CERTIFIED TESTING AND BALANCING FIRM TO BALANCE EACH HOT WATER STATION SUCH THAT HOT WATER IS PROVIDED AT EVERY HOT WATER FIXTURE IN A TIMELY MANNER (15 SECONDS OR LESS).
3. AFTER BALANCING CONTRACTOR COMPLETES BALANCING OF THE HW SYSTEM AND OWNER IS SATISFIED WITH THE HOT WATER DELIVERY THROUGHOUT THE BUILDING, THE TAB CONTRACTOR SHALL PROVIDE OWNER WITH LAMINATED 11X17 FLOOR PLAN OF BUILDING FLOORS SHOWING LOCATION OF EACH HW BALANCING VALVE AND SETTING FOR EACH HW BALANCING VALVE. A COPY OF THESE PLANS SHALL BE INCLUDED IN CLOSE-OUT DOCUMENTS BY CONTRACTOR.

2 HOT WATER BALANCING STATION
NO SCALE

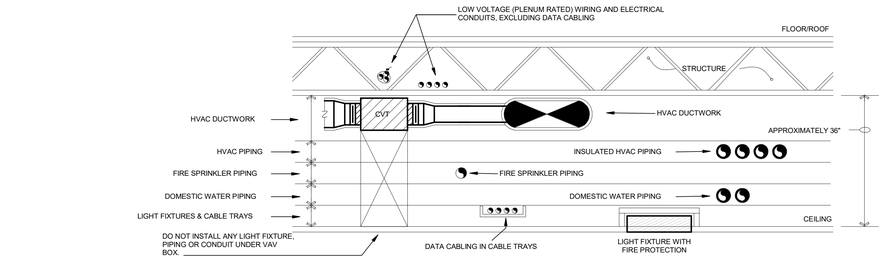


3 TYPICAL GAS CONNECTION
NO SCALE



THIS DETAIL APPLIES TO ALL PIPING THROUGH WALLS OR FLOORS, INCLUDING FIRE SPRINKLER PIPING.

4 WALL PENETRATION DETAIL
NO SCALE



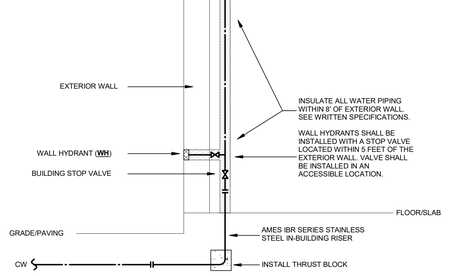
PLENUM PRIORITY NOTES

ELECTRICAL CONDUIT	INSTALLED WITHIN OPEN WEBS OF JOIST FRAMING. IF FRAMING IS USED FOR SUPPORT OF CONDUIT, A SADDLE SHALL BE REQUIRED FOR ISOLATION AT EACH SUPPORT POINT.
LOW VOLTAGE WIRING (EXCEPT DATA CABLING)	INSTALLED WITHIN OPEN WEBS OF JOIST FRAMING AND RUN PARALLEL OR PERPENDICULAR TO BUILDING WALLS. ALL INDIVIDUAL WIRES SHALL BE BUNDLED TOGETHER WITH PLASTIC TIE STRAPS AT 6 FOOT MAXIMUM INTERVALS AND EACH WIRE SHALL BE IDENTIFICATION TAGGED AT 25 FOOT MAXIMUM INTERVALS.
HVAC DUCTWORK	INSTALLED AS SNUG TO BOTTOM OF STRUCTURE AS POSSIBLE, ALLOWING ONLY ENOUGH SPACE FOR INSULATION WRAP. OFFSET HOT AND COLD MEDIUM PRESSURE DUCTS FOR TAKE-OFFS FOR DOUBLE DUCT VAV BOXES.
HVAC PIPING	INSTALLED IN PLANE DIRECTLY BELOW HVAC DUCTWORK. ALL VALVES AND INSTRUMENTS SHALL BE ACCESSIBLE AND EASILY OPERATED FROM BELOW.
FIRESPRINKLER PIPING	INSTALLED IN PLANE DIRECTLY BELOW HVAC PIPING.
DOMESTIC WATER PIPING	INSTALLED IN PLANE DIRECTLY ABOVE LIGHT FIXTURES. ALL VALVES AND INSTRUMENTS SHALL BE ACCESSIBLE AND EASILY OPERATED FROM BELOW. BALL VALVES INSTALLED WITH STEM HORIZONTAL SHALL BE USED IN LIEU OF WHEEL HANDLE VALVES OR OTHER TYPES EXCEPT IN SITUATIONS WHERE BALL VALVES ARE NOT APPROPRIATE.
LIGHT FIXTURES	TAKE PRIORITY IN SPECIAL LAYOUT. ALL OTHER SYSTEMS (DOUBLE DUCT UNITS, DUCTWORK, PIPING, CONDUITS, ETC.) SHALL BE ROUTED IN PLENUM SPACE TO AVOID PASSING DIRECTLY (LOW) OVER LIGHTING FIXTURES PREVENTING THEIR INSTALLATION, SERVICING AND/OR REMOVAL.
GRAVITY FED PLUMBING	THIS INCLUDES PLUMBING WASTE/VENT AND ROOF DRAIN SYSTEMS. THESE SYSTEMS TAKE PRIORITY OVER ALL OTHER SYSTEMS BUT MUST BE INSTALLED TAKING OTHER SYSTEMS INTO CONSIDERATION. IN GENERAL, ROOF DRAIN PIPING SHALL START AS HIGH AS POSSIBLE. WASTE/VENT PIPING SHALL BE INSTALLED IN VAC PIPING SPACE (IF AVAILABLE) IN AREAS WHERE CROSSING DUCTWORK. DO NOT INSTALL WASTE/VENT OR ROOF DRAIN PIPING UNDER DOUBLE DUCT VAV BOXES IF AVOIDABLE.

NOTES:

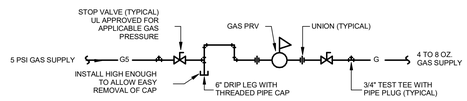
1. PIPING, CONDUIT AND DUCTWORK SUPPORTS ARE NOT SHOWN ON THIS DETAIL. SUPPORT ALL ENTITIES AS REQUIRED BY THE WRITTEN SPECIFICATIONS.
2. DO NOT INSTALL ANY PIPE OVER TOP OF ANY ELECTRICAL EQUIPMENT. THIS INCLUDES FIRE SPRINKLER PIPING. NO EXCEPTIONS.
3. DO NOT INSTALL ANY PIPE OVER TOP OF ANY IDF/MDF/SERVER/NETWORK EQUIPMENT. THIS INCLUDES EQUIPMENT PROVIDED BY OWNER. THIS INCLUDES FIRE SPRINKLER PIPING. NO EXCEPTIONS.

5 PLENUM SPACE PRIORITY DETAIL
NO SCALE



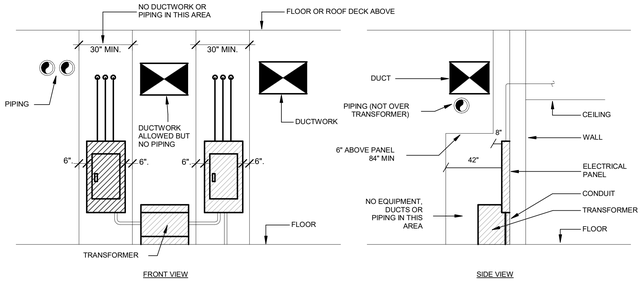
6 BUILDING WATER ENTRY/EXIT DETAIL
NO SCALE

GAS PRV SCHEDULE	
MARK	PRV
LOCATION	MECH D104 ROOF
SERVES	GWH
GAS LOAD	199 CFH
DISTANCE FROM METER	10 FEET
DISTANCE TO LAST OUTLET	50 FEET
INLET (SIZE/PRESSURE)	1.25" / 5 PSIG
OUTLET (SIZE/PRESSURE)	2" / 4-8 OZ.



VENT ALL REGULATORS TO OUTDOORS. THIS INCLUDES PRVs PROVIDED WITH BOILERS AND GWHs.

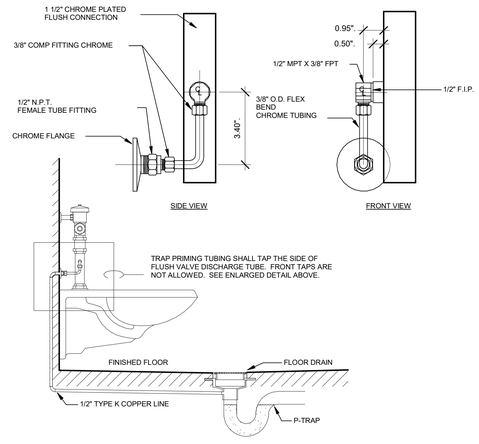
7 GAS PRESSURE REGULATOR DETAIL
NO SCALE



NOTES:

1. DO NOT INSTALL ANY PIPING BENEATH CVT BOXES.
2. DO NOT INSTALL ANY PIPE OVER TOP OF ANY ELECTRICAL EQUIPMENT. THIS INCLUDES FIRE SPRINKLER PIPING. NO EXCEPTIONS.
3. DO NOT INSTALL ANY PIPE OVER TOP OF ANY IDF/MDF/SERVER/NETWORK EQUIPMENT. THIS INCLUDES EQUIPMENT PROVIDED BY OWNER. THIS INCLUDES FIRE SPRINKLER PIPING. NO EXCEPTIONS.

8 MECHANICAL - ELECTRICAL COORDINATION DETAIL
NO SCALE



SLOAN ROYAL OR PPP FLUSH VALVE TRAP PRIMER MODELS ONLY.

9 FLUSH VALVE TRAP PRIMING TUBE DETAIL
NO SCALE

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Katy ISD
Katy, TX

NEW OPPORTUNITY AWARENESS CENTER

STATE OF TEXAS
MIGUEL A. HANZE
151421
LICENSED PROFESSIONAL ENGINEER

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

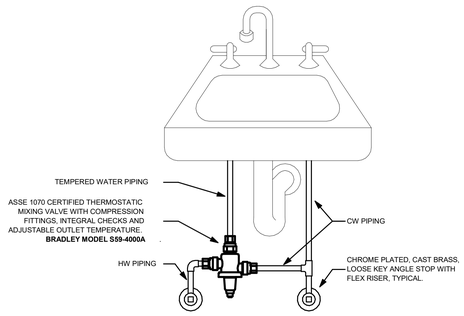
Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	AM
Drawn By	AM

PROJECT NO.
25-0067.00

SHEET TITLE
PLUMBING SCHEDULES AND DETAILS

SHEET NO.
P3.01

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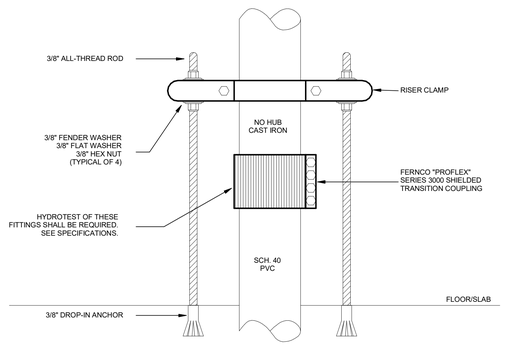


NOTES:

1. THIS DETAIL ONLY APPLIES TO ALL LAVATORIES AND SINKS THAT HAVE HOT WATER.
2. ALL CW AND HW CONNECTIONS SHALL HAVE COMPRESSION TYPE FITTINGS.
3. TMV SHALL BE INSTALLED IN A EASILY/READILY ACCESSIBLE LOCATION WITH MOUNTING BRACKET.
4. DELIVERY TEMPERATURES SHALL NOT EXCEED 110°F. VARIANCE OF TEMPERATURE RANGE OF MIXING VALVE SHALL BE CONSIDERED. REFER TO MANUFACTURERS TEMPERATURE PERFORMANCE OF VALVE AT HIGHEST FLOW RATE OF FAUCET.

1 KNEESPACE TMV DETAIL

NO SCALE

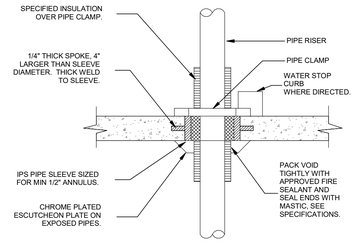


NOTES:

1. PROVIDE FERNCO "PROFLEX" SERIES 3000 SHIELDED TRANSITION COUPLING LISTED FOR PVC TO NO-HUB CAST IRON APPLICATIONS. HYDROTEST OF COUPLING SHALL BE REQUIRED.
2. ALL-THREAD RODS AND RISER CLAMP INSTALLATION REQUIRED AS SHOWN ABOVE.

2 PVC-TO-CAST IRON INSTALLATION DETAIL

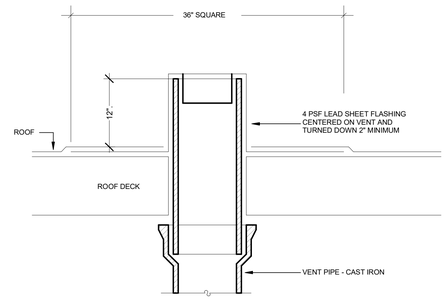
NO SCALE



THIS DETAIL APPLIES TO ALL PIPING THROUGH FLOORS, INCLUDING FIRE SPRINKLER PIPING.

3 PIPE THROUGH FLOOR SLAB DETAIL

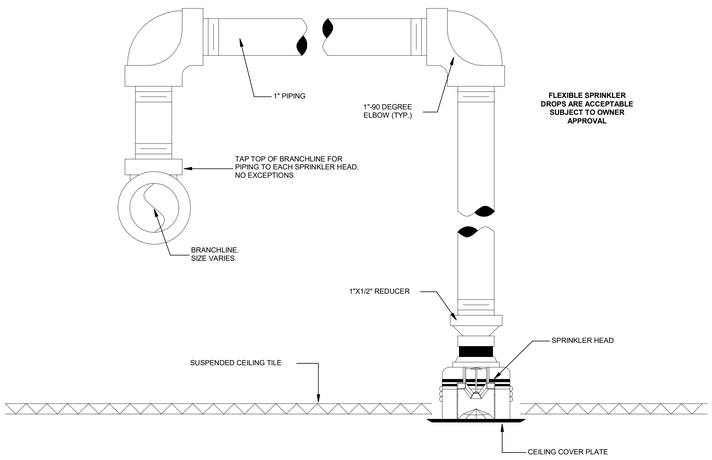
NO SCALE



COORDINATE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. DO NOT INSTALL VENTS WITHIN 10 FEET OF MECHANICAL AIR INTAKES

4 ROOF VENT DETAIL

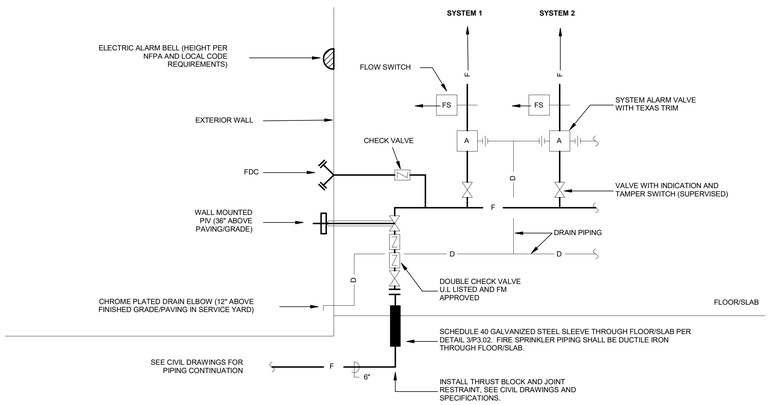
NO SCALE



FLEXIBLE SPRINKLER DROPS ARE ACCEPTABLE SUBJECT TO OWNER APPROVAL

5 FIRE SPRINKLERHEAD INSTALLATION DETAIL

NO SCALE

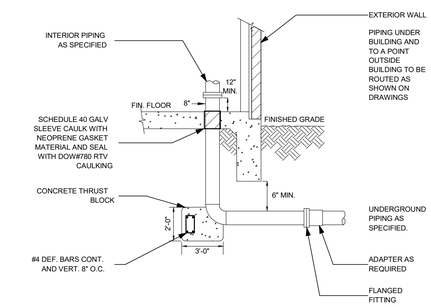


NOTES:

1. NUMBER OF FIRE SPRINKLER ZONES/SYSTEMS, PIPING SIZES AND ALL OTHER CRITERIA SHALL BE GOVERNED BY THE NFPA AND ALL OTHER LOCAL CODES AND REQUIREMENTS.
2. ENTIRE BUILDING SHALL BE FIRE SPRINKLERED.
3. SEE WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. TEST VALVES SHALL NOT BE LOCATED EXPOSED IN FINISHED ROOMS AND SHALL NOT DISCHARGE TO EXTERIOR OF BUILDING WHERE CONCRETE IS LOCATED (I.E. SIDEWALK OR DRIVE). INSTALL DISCHARGE IN GRASSY AREAS OR TO DRAINS VARIOUS MECHANICAL ROOMS THROUGHOUT BUILDING (REFERENCE PLUMBING FLOOR PLANS).
5. ALL SPRINKLER HEADS IN AREAS WITH CEILING GRID SHALL BE CONCEALED TYPE AND SHALL BE CENTERED IN CEILING TILES.

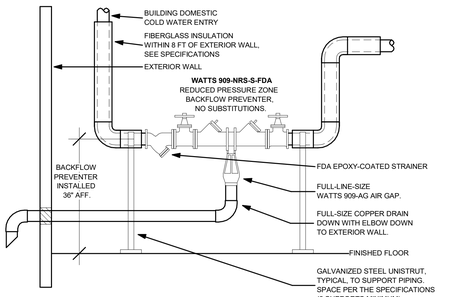
6 FIRE SPRINKLER SYSTEM RISER SCHEMATIC

NO SCALE



7 SPRINKLER SYSTEM ENTRY RISER

NO SCALE

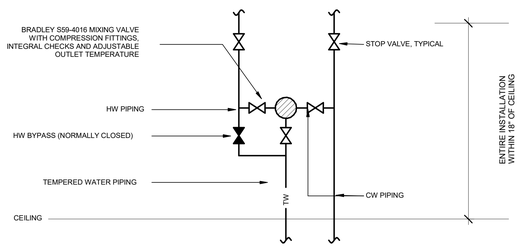


NOTES:

ALL BACKFLOW PREVENTION DEVICES, INCLUDING IN KITCHEN AREA, SHALL BE INSTALLED NO HIGHER THAN 36" ABOVE FINISHED FLOOR AND SHALL BE READILY ACCESSIBLE FOR TESTING AND REPAIR.

8 BACKFLOW PREVENTER INSTALLATION DETAIL

NO SCALE



NOTES:

1. THIS DETAIL APPLIES TO KITCHEN PLUMBING CONNECTIONS AND SCULLERY SINKS SEE KITCHEN PLUMBING CONNECTION SCHEDULE AND PLUMBING FIXTURE SCHEDULE.
2. ALL CW AND HW CONNECTIONS SHALL HAVE COMPRESSION TYPE FITTINGS.
3. TMV SHALL BE INSTALLED IN A EASILY/READILY ACCESSIBLE LOCATION.

9 ABOVE CEILING TMV DETAIL

SCALE = 1" = 1'-0"

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MIGUEL A. HANZE
151421
LICENSED PROFESSIONAL ENGINEER

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	AM
Drawn By	AM

PROJECT NO.

25-0067.00

SHEET TITLE

PLUMBING SCHEDULES AND DETAILS

SHEET NO.

P3.02

NEW OPPORTUNITY AWARENESS CENTER

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PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	CONNECTION SIZE				SPECIFICATION
		SS	SV	CW	HW	
WC	STANDARD WATER CLOSET WITH FLUSH VALVE TRAP PRIMER	4"	2"	1"	-	WALL MOUNTED, WHITE VITREOUS CHINA, SIPHON JET ACTION, 1.28 GPF, WATERSENSE LABELED, ELONGATED BOWL, CERAMIC GLAZING, TOP SPUD, ADA/TAS COMPLIANT AMERICAN STANDARD MILLENIUM FLOWISE MODEL 2257.101; SLOAN ROYAL 111 MANUAL OPERATED, NON-HOLD OPEN HIGH-EFFICIENCY FLUSH VALVE WITH FLUSH VALVE TRAP PRIMER, 1.28 GPF, COMPLETE WITH VACUUM BREAKER AND ANGLE STOP SET, AND ADA/TAS COMPLIANT LEVER ACTUATOR WITH LEVER INSTALLED ON LEFT SIDE (FOR FIXTURES DESIGNATED AS "ACCESSIBLE", INSTALL LEVER ON "WIDE-SIDE" OF TOILET STALL) AND, FLOOR MOUNTED CARRIER; BEMIS 1655-SSCT, WHITE, OPEN FRONT SEAT LESS COVER WITH SELF-SUSTAINING, STAINLESS STEEL CHECK HINGE.
LAV	STANDARD RESTROOM LAVATORY	1-1/2"	2"	1/2"	1/2"	WALL HUNG, WHITE VITREOUS CHINA, 4" CENTERS, FRONT OVERFLOW, SELF-DRAINING DECK AREA, 21" X 18", 4" MAXIMUM FRONT LIP DEPTH, ADA/TAS COMPLIANT AMERICAN STANDARD MODEL 0355.012; CHROME PLATED, ALL CAST BRASS CONSTRUCTION, ADA/TAS COMPLIANT, VANDAL-PROOF, MANUAL NON-METERING FAUCET WITH USER TEMPERATURE CONTROL, HIGH TEMPERATURE LIMIT STOP, LEVER HANDLE OPERATION, 0.5 GPM NON-AERATING LAMINAR SPRAY, CENTERSHANK, DECK MOUNTED WITH 4" CENTERS, FLEXIBLE SUPPLY HOSES WITH 3/8" COMPRESSION FITTING, CERTIFIED FOR MEETING ALL REQUIREMENTS OF NSF 61 SECTION 9, CHICAGO MODEL 2200-4E2805ABCP; ASSE1070 CERTIFIED THERMOSTATIC MIXING VALVE, BRADLEY MODEL S59-4000A, CHROME PLATED, 17-GAUGE CAST BRASS GRID DRAIN WITH WHEELCHAIR OFFSET FITTING, CHROME PLATED, 17-GAUGE, CAST BRASS P-TRAP WITH CLEANOUT PLUG; CHROME PLATED, CAST BRASS, LOOSE KEY ANGLE STOPS WITH CHROME PLATED COPPER RISERS; TRUEBRO HANDI LAV-GUARD VANDAL-PROOF, WHITE INSULATION KITS; AND, FLOOR MOUNTED, CONCEALED ARMS CARRIER. INSTALL UNDER LAV MIXING VALVE ON HW SUPPLY SIDE OF FAUCET. TEMPERED SUPPLY ONLY TO EACH FAUCET. SEE DETAIL 1/P3.02. SEE ARCHITECTURE FOR MOUNTING HEIGHTS.
SK-2	WORK SINK	1-1/2"	2"	1/2"	1/2"	DOUBLE BOWL DROP-IN SINK, 18-GAUGE STAINLESS STEEL WITH STAINLESS STEEL CHANNELS, ADA/TAS COMPLIANT, DRAINS IN REAR CENTER OF BOWLS, FULLY UNDERCOATED AND SOUND DEADENED, THREE (3) FAUCET HOLES, 33" X 19" X 6-1/2" DEEP ELKAY MODEL LRAD-331965; 8" CENTERS CONCEALED DECK MOUNT, 1.5 GPM ADA/TAS COMPLIANT, HIGH ARC FAUCET, QUARTER TURN CERAMIC CARTRIDGES, LEVER HANDLES, COMPLETELY VANDAL PROOF INCLUDING AERATOR (CHICAGO E12VP), WITH COPPER SUPPLIES AND CERTIFIED FOR MEETING ALL REQUIREMENTS OF NSF 61 SECTION 9, CHICAGO MODEL 201-RSHABAE35VKKAB; ELKAY 1-1/2" 99 DRAIN OUTLET WITH HEAVY-GAUGE STAINLESS STEEL BODY, REMOVABLE STAINLESS STEEL BASKET WITH LOCKING SHELL AND RUBBER STOPPER ON BOTTOM; CHROME PLATED, 17-GAUGE CAST BRASS P-TRAP WITH CLEANOUT PLUG; CHROME PLATED, CAST BRASS, LOOSE KEY ANGLE STOPS WITH CHROME PLATED COPPER RISERS; AND, TRUEBRO HANDI LAV-GUARD, VANDAL-PROOF, WHITE INSULATION KITS WHERE KNEESPACE MILLWORK SCREEN IS NOT PROVIDED. INSTALL ASSE 1070 TEMPERED MIXING VALVE ON HW SUPPLY SIDE OF FAUCET PER DETAIL 1/P3.02
SK	CLASSROOM SINK	1-1/2"	2"	1/2"	1/2"	SAME AS TYPE "SK-2" EXCEPT WITH SINGLE BOWL DROP-IN SINK, 18-GAUGE STAINLESS STEEL WITH STAINLESS STEEL CHANNELS, ADA/TAS COMPLIANT, DRAINS IN REAR CENTER OF BOWLS, FULLY UNDERCOATED AND SOUND DEADENED, FOUR (4) FAUCET HOLES, 22" X 19" X 6-1/2" ELKAY MODEL LRAD-221965
MB	MOP BASIN	3"	2"	3/4"	3/4"	28" X 28" X 12" DEEP TERRAZZO, TWO (2) STAINLESS STEEL SPLASH CATCHER PANELS, 6" DROP FRONT WITH STAINLESS STEEL CAP. CAST BRASS DRAIN WITH STAINLESS STEEL STRAINER, STERN WILLIAMS HILOW MODEL HL-1900-BP. FAUCET SHALL BE POLISHED CHROME PLATED SERVICE SINK TYPE WITH VACUUM BREAKER, INTEGRAL SUPPLY CHECK STOPS, SPOUT WITH PAIL HOOK, HOSE END AND TOP BRACE, CHICAGO MODEL 897-CP ONLY (INSTALL BACKING/BRACING INSIDE WALL TO SUPPORT FAUCET AND TOP BRACE).
EDF	DUAL DRINKING FOUNTAIN WITH BOTTLE FILLER	1-1/2"	1-1/2"	1/2"	-	DUAL STATION, MOUNTED ON WALL WITH CARRIER, ALL STAINLESS STEEL, 0.7 GPM MAX, ADA/TAS COMPLIANT, BARRIER FREE, SENSOR ACTIVATED, 8 GPH AT ARI STANDARDS, 2-STREAM METAL BUBBLER, VANDAL-PROOF KITS, LEAD-FREE (CERTIFIED FOR MEETING ALL REQUIREMENTS OF NSF 61 SECTION 9), REFRIGERANT HFC-134a, MECHANICAL ACTUATION VALVE (NO ELECTRONIC SOLENOID VALVE), FILTERED, WITH VISUAL FILTER MONITOR AND BOTTLE FILLER. HALSEY TAYLOR MODEL HTHB-HVRGRNBL-WF; CHROME PLATED, 17-GAUGE CAST BRASS P-TRAP WITH CLEANOUT PLUG; CHROME PLATED, CAST BRASS, LOOSE KEY ANGLE STOP WITH CHROME PLATED COPPER RISER; CHAIR CARRIERS; AND, STAINLESS STEEL ADA APRON WHERE REQUIRED BY ADA/TAS.

DRAINS, CLEANOUTS AND HYDRANTS

MARK	DESCRIPTION	CONNECTION SIZE				SPECIFICATION
		SS	SV	CW	HW	
FD	FLOOR DRAIN W/ TRAP PRIMER	4"	2"	1/2"	-	TWO-PIECE CAST IRON WITH SEEPAGE FLANGE, REVERSIBLE CLAMPING COLLAR, 1/2" TRAP PRIMER CONNECTION, 6" ROUND HEAVY-DUTY SOLID STAINLESS STEEL STRAINER. ZURN MODEL ZD415BS-P.
FD-2	EQUIPMENT FLOOR DRAIN	4"	2"	-	-	CAST IRON, MEDIUM DEPTH DRAIN WITH FLANGE, CLAMPING DEVICE, SEEPAGE OPENINGS, DUCTILE IRON TRUE-FIT SEDIMENT BUCKET , PROSET TRAP GUARD. ZURN MODEL ZS540-LG. DRAIN SHALL BE DESIGNED SUCH THAT GRATE CANNOT BE INSTALLED WITHOUT SEDIMENT BUCKET.
FD-3	GRATED MECHANICAL ROOM FLOOR DRAIN	4"	2"	-	-	CAST IRON WITH FLANGE, SEEPAGE OPENINGS, 9" HEAVY-DUTY DUCTILE IRON GRATE WITH STAINLESS STEEL VENEER, CLAMPING DEVICE AND PROSET TRAP GUARD. ZURN MODEL ZS550-PROSET.
FD-K	KITCHEN FLOOR DRAIN	4"	2"			TWO-PIECE CAST IRON WITH SEEPAGE FLANGE, REVERSIBLE CLAMPING COLLAR, 7" ROUND HEAVY-DUTY SOLID STAINLESS TRACTOR DUTY GRATE. ZURN MODEL ZS415-7N.
FSINK	3/4 GRATE, 12" FLOOR SINK	4"	2"	-	-	CAST IRON, 8" DEEP SUMP, A.R.E. INTERIOR, INTEGRAL FLANGE FOR SUPPORT, CLAMPING DEVICE WHERE VAPOR BARRIER IS INSTALLED BETWEEN SLAB AND CONCRETE BEDDING FOR FLOOR, ALUMINUM SECONDARY DOME STRAINER AND 12" SQUARE HEAVY DUTY STAINLESS STEEL TRACTOR DUTY FRAME WITH 3/4-TRACTOR GRATE. ZURN MODEL ZS1901-K-3-32-PROSET.
CO	FLOOR CLEANOUT	VARIES	-	-	-	ADJUSTABLE EXTENSION HOUSING, CAST IRON FERRULE WITH FULL-LINE-SIZE ABS PLUG (UP TO 4"), 5" DIAMETER STAINLESS STEEL ACCESS COVER WITH VANDAL-PROOF SECURITY SCREWS, ROUND FRAME AND TOP STYLE COMPATIBLE WITH FLOOR TYPE (REFERENCE ARCHITECTURAL DRAWINGS FOR FLOOR TYPES). ZURN MODEL ZS1400-VP. OUTDOOR CLEANOUT - SAME AS TYPE "CO" EXCEPT WITH HEAVY-DUTY DUCTILE IRON, NICKEL BRONZE TOP. ZURN MODEL ZN1400-VP-HD. INSTALL 18" X 18" X 6" THICK CONCRETE PAD AROUND EACH OUTDOOR CLEANOUT.
WCO	WALL CLEANOUT	VARIES	-	-	-	CAST IRON FERRULE WITH COUNTERSUNK HEAD (FULL-LINE-SIZE ABS PLUG UP TO 4"). ZURN MODEL Z1440. ACCESS COVER SHALL BE 8" SQUARE, 16 GAUGE STEEL HINGED ACCESS DOOR WITH SCRE DRIVER LOCK, ACUDOR UF-500 MODEL OR APPROVED EQUAL. PAINT COLOR SPECIFIED BY ARCHITECT. INSIDE CABINETWORK WHERE CLEANOUT IS **NOT** VISIBLE, ACCESS PANEL MAY BE ROUND STAINLESS STEEL TYPE WITH SCREWDRIVER ACCESS, ZURN MODEL ZS1469-VP
2CO	DOUBLE CLEANOUTS	4"	-	-	-	SAME AS OUTDOOR CLEANOUTS. INSTALLED FOR TWO-WAY RODDING. SINGLE CLEANOUT WITH 2-WAY FITTING IS NOT ACCEPTABLE, PROVIDE TWO SEPARATE CLEANOUTS. INSTALL 18" X 18" X 6" THICK CONCRETE PAD AROUND EACH OUTDOOR CLEANOUT.
WH	EXTERIOR WALL HYDRANT	-	-	3/4"	-	NON-FREEZE HOSE BOX, QUARTER-TURN WHEEL HANDLE, ASSE APPROVED ANTI-SIPHON INTEGRAL VACUUM BREAKER AND DUAL CHECK VALVE, 3/4" STRAIGHT INLET HOSE CONNECTION, CAST STAINLESS STEEL HYDRANT BOX, FLUSH MOUNTED 16-GAUGE STAINLESS STEEL FRAME AND 180° DROP DOWN DOOR AND WALL CLAMP JAY R. SMITH MODEL 5519-WC.
HB	HOSE BIBB	-	-	3/4"	-	3/4" HOSE THREAD, INTEGRAL VACUUM BREAKER SPOUT, ROUGH CHROME FINISH WITH REMOVABLE KEYED HANDLE, WALL FLANGE; CHICAGO MODEL 952.

FIRE PROTECTION SYMBOLS LEGEND

F	FIRE PROTECTION PIPING
AWSP	AUTOMATIC WET STANDPIPE
MWSP	MANUAL WET STANDPIPE
ADSP	AUTOMATIC DRY STANDPIPE
MDSP	MANUAL DRY STANDPIPE
AWS	AUTOMATIC WET SPRINKLERS
ADS	AUTOMATIC DRY SPRINKLERS
D	DRAIN PIPING
	STOP VALVE (NORMALLY OPEN)
	STOP VALVE (NORMALLY CLOSED)
	OS&Y VALVE (NORMALLY OPEN)
	OS&Y VALVE (NORMALLY CLOSED)
F-1	RISER F-1
(E)	EXISTING
(N)	NEW
FDC	FIRE DEPARTMENT CONNECTION
FHV	FIRE HOSE VALVE
FPTH	FIRE PUMP TEST HEADER
PIV	POST INDICATOR VALVE
FSR	FIRE SPRINKLER RISER(S)
FPUMP	FIRE PUMP
JPUMP	JOCKEY PUMP

PLUMBING SYMBOLS LEGEND

SAN	SANITARY WASTE BELOW SLAB (SAN)	(E) EXISTING	**GT** GREASE TRAP
	SANITARY WASTE ABOVE SLAB (SAN)	(N) NEW	**ANT** ACID NEUTRALIZATION TANK
V	VENT PIPING BELOW SLAB (V)	SAN. SANITARY	**SO** SAND/OIL SEPARATOR
V	VENT PIPING ABOVE SLAB (V)	CW DOMESTIC COLD WATER	**STW** SAMPLING TEST WELL
	DOMESTIC COLD WATER PIPING (CW)	HW DOMESTIC HOT WATER	**GM** GAS METER
	DOMESTIC HOT WATER PIPING (HW)	HWR DOMESTIC HOT WATER RETURN	**EWH** ELECTRIC WATER HEATER
	DOMESTIC HOT WATER RETURN PIPING (HWR)	WC WATER CLOSET	**GWH** GAS WATER HEATER
G50	GAS SERVICE (BY UTILITY PROVIDER) (G50)	LAV LAVATORY	**CP** HOT WATER CIRCULATOR PUMP
G5	INTERMEDIATE PRESSURE GAS PIPING (5 PSIG) (G5)	UR URINAL	**SP** SUMP PUMP
G	LOW PRESSURE GAS PIPING (4-8 OZ.) (G)	SK SINK	FD FLOOR DRAIN
D	DRAIN/RELIEF VENT PIPING	MB MOP BASIN	FSINK FLOOR SINK
	STOP VALVE (NORMALLY OPEN)	EDF ELECTRIC DRINKING FOUNTAIN	TD TRENCH DRAIN
	STOP VALVE (NORMALLY CLOSED)	WH WALL HYDRANT	2CO DOUBLE SAN. CLEANOUT (2-WAY)
	GAS VALVE (NORMALLY OPEN)	HB HOSEBIBB	CO SANITARY SEWER CLEANOUT
	GAS VALVE (NORMALLY CLOSED)	WBOX CLOTHES WASHER DRAIN/VALVE BOX	WCO WALL CLEANOUT
	SOLENOID VALVE (NORMALLY OPEN)	VBOX RECESSED WATER VALVE BOX	ACO ACID WASTE CLEANOUT
	SOLENOID VALVE (NORMALLY CLOSED)		AWCO ACID WASTE WALL CLEANOUT
	BACKFLOW PREVENTER (WATTS 909 ONLY)		
P-1	RISER P-1, 2" VENT THROUGH ROOF		
2" VTR			
	GAS PRESSURE REDUCING/REGULATING VALVE		

PLUMBING PIPING MATERIALS

SANITARY WASTE AND VENT

BELOW SLAB: SCHEDULE 40, DWV PVC.

ABOVE SLAB: STANDARD WEIGHT, CAST IRON, NO-HUB PIPING.

DOMESTIC WATER

INTERIOR: TYPE L COPPER WITH SOLDER TYPE WROUGHT COPPER FITTINGS, MADE UP WITH LEAD-FREE SOLDER.

TRAP PRIMER: 1/2" TYPE K COPPER LINE

EXTERIOR: TYPE K COPPER WITH NO FITTINGS AND PVC SLEEVE. SLEEVE SHALL BE 2 PIPE SIZES LARGER THAN PIPE AND BE MINIMUM 2". BEYOND 5 FEET FROM BUILDING, SEE CIVIL DRAWINGS AND SPECIFICATIONS.

NATURAL GAS

INTERIOR: SCHEDULE 40 BLACK STEEL WITH WELDED JOINTS.

EXTERIOR ABOVE GRADE: SCHEDULE 40 BLACK STEEL WITH WELDED JOINTS. ALL PIPING PAINTED WITH INDUSTRIAL GRADE PAINT.

EXTERIOR BELOW GRADE: U.L. LISTED POLYETHYLENE GAS PIPING WITH SOCKET WELD JOINTS.

SEE WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PLUMBING FIXTURE NOTES

1. ALL FIXTURES SHALL MEET WATER CONSERVATION PERFORMANCE STANDARDS MANDATED BY SENATE BILL 587. ALL FIXTURES SHALL HAVE FLOW RESTRICTION DEVICES (DRINKING FOUNTAINS SHALL BE SELF-CLOSING) TO COMPLY WITH THESE REQUIREMENTS.
2. ALL FIXTURES SHALL HAVE CONTROLS REQUIRING OPERATING FORCE NO GREATER THAN FIVE (5) POUNDS.
3. FOR LAVATORIES AND SINKS, ALL FAUCETS SHALL BE NO-LEAD SOLID BRASS, MEETING ALL REQUIREMENTS OF ANSI/NSF 61, SECTION 9 AND CERTIFIED BY U.L. AS SUCH. ALSO, INSTALL BRADLEY MODEL S59-4000A MIXING VALVE ON HOT WATER SUPPLY SIDE OF ALL FAUCETS UNLESS HIGH TEMPERATURE LIMIT IS PROVIDED WITH FAUCET. AND, INSTALL TRUEBRO HANDI LAV-GUARD VANDAL-PROOF INSULATION KITS OVER P-TRAP. SUPPLIES, STOPS AND ALL SHARP EDGES FOR ALL SINKS AND LAVATORIES WHERE CASEWORK KNEESPACE SCREEN IS NOT INSTALLED.
4. ALL PLUMBING FIXTURES REFERENCED AS "ADA" OR "HANDICAP" SHALL MEET ALL REQUIREMENTS OF THE ADA AND THE TEXAS ACCESSIBILITY STANDARDS. IT SHALL BE THE PLUMBING CONTRACTORS RESPONSIBILITY TO MEET THESE REQUIREMENTS.
5. IN MANY CASES, FIXTURES WITH THE SAME PLUMBING DESIGNATION HAVE DIFFERENT INSTALLATION HEIGHTS - REFERENCE ARCHITECTURAL DRAWINGS FOR ALL INSTALLATION HEIGHTS AND HANDICAP FIXTURE DESIGNATIONS. FIXTURES DESIGNATED AS ADULT HANDICAP SHALL MEET ALL REQUIREMENTS OF THE ADA. FIXTURES DESIGNATED AS CHILD HANDICAP SHALL MEET ALL REQUIREMENTS OF THE TEXAS ACCESSIBILITY STANDARDS FOR THE SPECIFIED CHILD AGE GROUP (SPECIFIED BY ARCHITECT).
6. FOR ALL PLUMBING FIXTURES, WHERE COPPER PIPING IS STUBBED THROUGH WALL FOR DRAIN CONNECTION, INSTALL MARVEL FITTING FOR EASE OF SERVICE AND REPAIRS.

SEE WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	AM
Drawn By	AM

PROJECT NO.

25-0067.00

SHEET TITLE

PLUMBING SCHEDULES AND DETAILS

SHEET NO.

P3.03

NEW OPPORTUNITY AWARENESS CENTER

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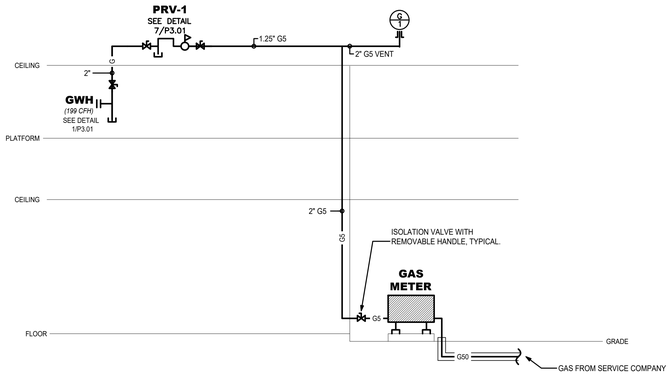
NATURAL GAS LOAD

METER OUTLET PRESSURE SHALL BE 5 PSI.

FURTHEST PIPING RUN FROM METER IS 50 FEET.

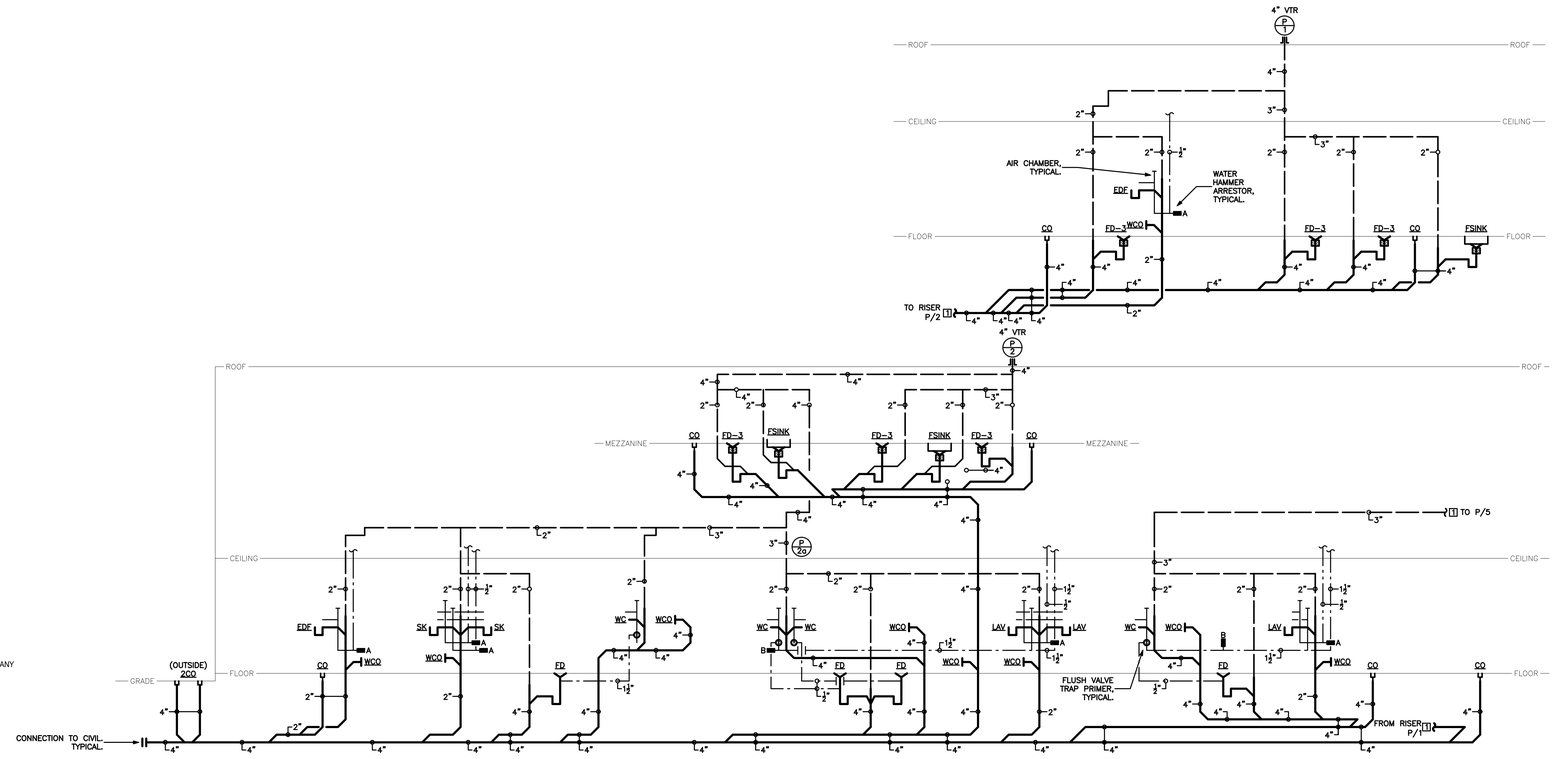
CONNECTED LOADS

GWH	→	199 CFH
TOTAL GAS LOAD	→	199 CFH



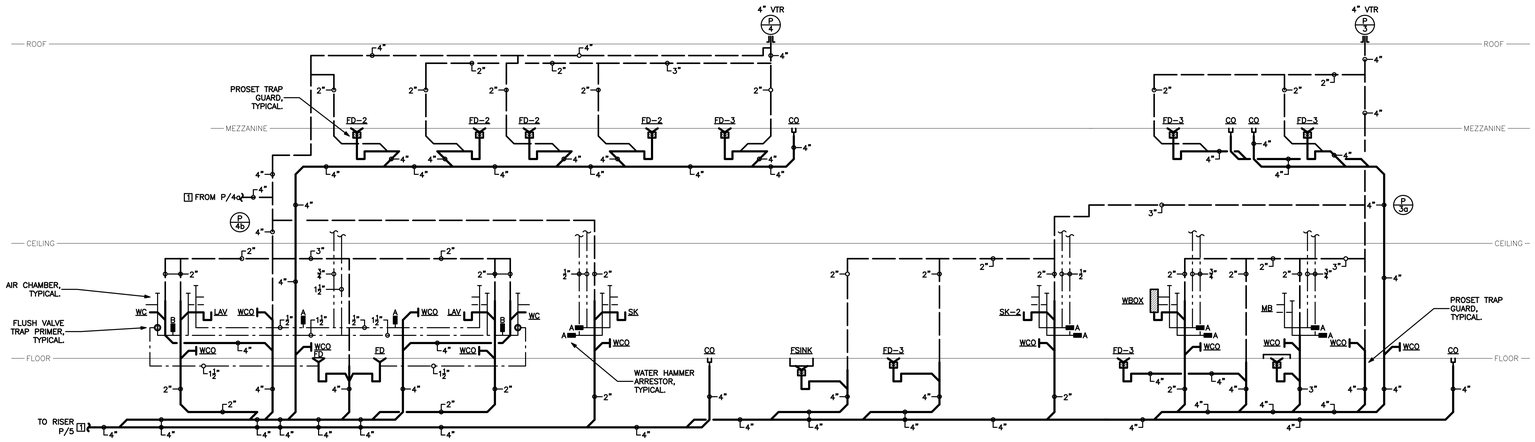
1 TYPICAL NATURAL GAS RISER DIAGRAM

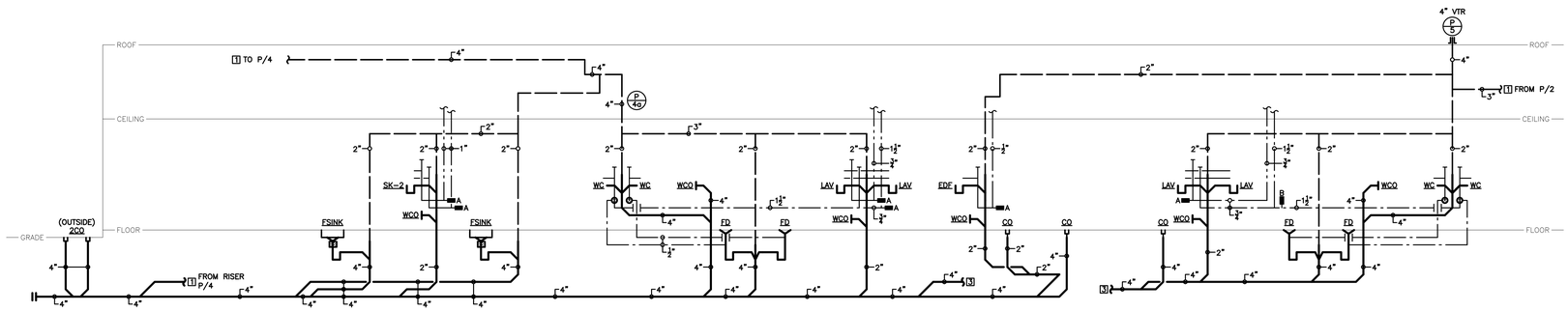
NO SCALE



2 PLUMBING RISER DIAGRAM

NO SCALE





3 PLUMBING RISER DIAGRAM

NO SCALE

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Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	AM
Drawn By	AM

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SHEET TITLE

PLUMBING RISER DIAGRAM

SHEET NO.

P4.01

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POWER LEGEND

SYMBOLS	DESCRIPTION
	SURFACE MOUNTED PANELBOARD
	RECESSED PANELBOARD
	HOMERUN TO PANELBOARD
	MOTOR
X/Y/Z	FUSED DISCONNECT SWITCH. "X" INDICATES SWITCH SIZE, "Y" INDICATES FUSE SIZE, "Z" INDICATES NUMBER OF POLES
X/Y	DISCONNECT SWITCH. "X" INDICATES SWITCH SIZE, "Y" INDICATES NUMBER OF POLES
	COMBINATION STARTER WITH INTEGRAL DISCONNECT SWITCH
	VFD STARTER WITH INTEGRAL DISCONNECT SWITCH
	SIMPLEX RECEPTACLE. SYMBOL WITH LINE THRU IT DENOTES MOUNTED ABOVE COUNTER.
	DUPLEX RECEPTACLE. SYMBOL WITH LINE THRU IT DENOTES MOUNTED ABOVE COUNTER.
AC	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE. "AC" DENOTES ABOVE COUNTER.
	PLUG LOAD CONTROLLED DUPLEX RECEPTACLE. SYMBOL WITH LINE THRU IT DENOTES MOUNTED ABOVE COUNTER.
	DUPLEX RECEPTACLE WITH TWO INTEGRAL USB CHARGING PORTS. SYMBOL WITH LINE THRU IT DENOTES MOUNTED ABOVE COUNTER.
AC	ISOLATED GROUND DUPLEX RECEPTACLE. "AC" DENOTES ABOVE COUNTER.
	ISOLATED GROUND TWISTLOCK RECEPTACLE. NEMA CONFIGURATION TO MATCH PLUG.
	SPECIAL RECEPTACLE. NEMA CONFIGURATION TO MATCH PLUG.
	QUAD RECEPTACLE. SYMBOL WITH LINES THRU IT DENOTES MOUNTED ABOVE COUNTER.
AC	GROUND FAULT CIRCUIT INTERRUPTER QUAD RECEPTACLE. "AC" DENOTES ABOVE COUNTER.
AC	ISOLATED GROUND QUAD RECEPTACLE. "AC" DENOTES ABOVE COUNTER.
	MULTI OUTLET SURFACE RACEWAY, SIMILAR TO WIREMOLD #4000. REFER TO THE DETAILS SHEET FOR ADDITIONAL INFORMATION.
	FLOOR BOX AND/OR POKE THRU DEVICE. SEE SCHEDULE FOR DETAILS. "X" INDICATES CIRCUIT NUMBER.
CORD CLOG OFF	PROVIDE POWER CORD REEL MANUFACTURED BY HUBBELL, PROVIDE INTEGRAL GFCI PROTECTION DEVICE. STOP BALL AND KELLEMS STRAIN RELIEF CORD GRIP AT DROP CORD 120V 20A RECEPTACLE.
DROP CORD OFF	PROVIDE POWER DROP CORD RECEPTACLE MANUFACTURED BY HUBBELL, PROVIDE KELLEMS STRAIN RELIEF CORD GRIP AT BOTH CEILING J-BOX AND DROP CORD RECEPTACLE. PROVIDE GFCI PROTECTION DEVICE AND 20A, 120V HEAVY DUTY POWER CORD.
	JUNCTION BOX - WALL MOUNTED
	JUNCTION BOX - CEILING MOUNTED
	JUNCTION BOX - FLOOR MOUNTED
	POWER FEED TO SYSTEM FURNITURE, WALL MOUNTED. PROVIDE FLEXIBLE WHIP CONNECTION TO THE FURNITURE AS REQUIRED.
	PUSH BUTTON
E	EMERGENCY PUSH BUTTON
—E—	ELECTRICAL FEEDER
—D—	DATA CONDUIT, MINIMUM 1"C
—AV—	VIDEO/AUDIO CONDUIT, MINIMUM 1.25"C
	UNDERGROUND CONDUIT
	GROUNDING CONNECTION (SYSTEM AND/OR EQUIPMENT)
$M	MOTOR RATED TOGGLE SWITCH RATED FOR MOTOR AMP & HP
$MP	MOTOR RATED TOGGLE SWITCH WITH RED PILOT ON LIGHT

NOTES:

1. REF. SPECIFICATIONS FOR ADA MOUNTING HEIGHT DEVICES.
2. ALL ELECTRICAL WIRING DEVICE ON EMERGENCY CIRCUIT SHALL BE RED COLOR.
3. PROVIDE NEMA 3R DISCONNECT SWITCH IN ELECT / MECH ROOM AND OUTDOORS. REFER TO PANEL SCHEDULE FOR DISCONNECT SIZE IF NOT INDICATED.
4. PROVIDE NEMA 4X DISCONNECT SWITCH IN KITCHEN AREA. REFER TO PANEL SCHEDULE FOR DISCONNECT SIZE IF NOT INDICATED.
5. SWITCH PLATE NOTE:
   ALL SWITCHES OPERATING LOADS OTHER THAN ROOM LIGHTING SHALL BE ENGRAVED WITH BLACK LETTERS EXPLAINING SWITCH FUNCTIONS I.E. EXHAUST FAN. WORDING SHALL BE DETERMINED BY KISD ELECTRICAL DEPARTMENT.
6. PROVIDE ENGRAVED NAMEPLATE FOR ALL SAFETY SWITCHES AND STARTERS.
7. RECEPTACLES AND TOGGLE SWITCHES CONNECTED TO EMERGENCY CIRCUIT SHALL BE RED COLOR, TYPICAL OF ALL.

FLOOR BOX/POKE THRU SCHEDULE

SYMBOLS	DESCRIPTION
	1-GANG CAST IRON FLOOR BOX: WALKER #880CS1-1 WITH (1) #817B FLUSH BRASS FLANGE, (1) #828R BRASS COVER PLATE AND THE FOLLOWING DEVICE(S): (1) 120V, 1Ø, 20A DUPLEX RECEPTACLE.
	2-GANG CAST IRON FLOOR BOX: WALKER #880CS2-1 WITH (1) #827B FLUSH BRASS FLANGE, (1) #828R BRASS COVER PLATE [FOR POWER], (1) #828GFITC BRASS COVER PLATE [FOR TELEDATA], AND THE FOLLOWING DEVICE(S): (1) 120V, 1Ø, 20A DUPLEX RECEPTACLE.
	3-GANG CAST IRON FLOOR BOX: WALKER #880CS3-1 WITH (1) #837B FLUSH BRASS FLANGE, (2) #828R BRASS COVER PLATE [FOR POWER], (1) #828GFITC BRASS COVER PLATE [FOR TELEDATA], AND THE FOLLOWING DEVICE(S): (2) 120V, 1Ø, 20A DUPLEX RECEPTACLES.

RISER DIAGRAM LEGEND

SYMBOLS	DESCRIPTION
PANEL XX	ELECTRICAL PANELBOARD
XFMR XX; Y X	DRYTYPE TRANSFORMER "X" DENOTES VOLTAGE "Y" DENOTES TRANSFORMER SIZE (KVA)
X Y	CIRCUIT BREAKER "X" DENOTES SIZE OF CIRCUIT BREAKER (AMPS) "Y" DENOTES # OF POLES
X Y	FUSE "X" DENOTES SIZE OF FUSE (AMPS) "Y" DENOTES QTY OF FUSES
X Y	ENCLOSED CIRCUIT BREAKER "X" DENOTES SIZE OF CIRCUIT BREAKER (AMPS) "Y" DENOTES # OF POLES
X	NON-FUSED DISCONNECT SWITCH "X" DENOTES FRAME SIZE OF SWITCH (AMPS)
X Y Z	FUSED DISCONNECT SWITCH "X" DENOTES FRAME SIZE OF SWITCH (AMPS) "Y" DENOTES SIZE OF FUSE (AMPS) "Z" DENOTES QTY OF FUSES
	CURRENT TRANSFORMER (CT)
M	ELECTRICAL METER
N E L; X Y	TRANSFER SWITCH "X" TYPE OF SWITCH ATS: AUTOMATIC TRANSFER SWITCH MTS: MANUAL TRANSFER SWITCH "Y" DENOTES SWITCH SIZE (AMPS)
N L; X Y	TRANSFER SWITCH WITH BYPASS ISOLATION "X" TYPE OF SWITCH ATS: AUTOMATIC TRANSFER SWITCH MTS: MANUAL TRANSFER SWITCH "Y" DENOTES SWITCH SIZE (AMPS)
G	EMERGENCY / STANDBY GENERATOR WITH (1) OUTPUT CIRCUIT BREAKER "X" DENOTES SIZE OF CIRCUIT BREAKER (AMPS) "Y" DENOTES # OF POLES
G; X Y X Y	EMERGENCY / STANDBY GENERATOR WITH (2) OUTPUT CIRCUIT BREAKER "X" DENOTES SIZE OF CIRCUIT BREAKER (AMPS) "Y" DENOTES # OF POLES
X Y; SPD; FIRE PUMP	FIRE PUMP CONTROLLER "X" DENOTES VOLTAGE/PHASE "Y" DENOTES HORSE POWER
X Y; SPD; FIRE PUMP	FIRE PUMP CONTROLLER "X" DENOTES VOLTAGE/PHASE "Y" DENOTES HORSE POWER
	SWITCHBOARD "X" DENOTES AMPERAGE "Y" DENOTES VOLTAGE "Z" DENOTES SWITCHBOARD DESIGNATION MAIN SWITCHBOARD 'Z' XXXA, YYY/YYYV, 3PH, 4W
X Y	UPS "X" DENOTES SIZE OF THE UPS (KVA) AND VOLTAGE "Y" DENOTES INPUT / OUTPUT AMPS
	AC / DC INVERTER
X X XX	FEEDER LABEL REFER TO FEEDER SCHEDULE FOR ADDITIONAL INFORMATION
GF	GROUND FAULT PROTECTION

LIGHTING LEGEND

SYMBOLS	DESCRIPTION
SDK	LOW VOLTAGE DIGITAL KEY OPERATED LIGHT SWITCH
SDK3	LOW VOLTAGE DIGITAL KEY OPERATED 3-WAY LIGHT SWITCH
SDK4	LOW VOLTAGE DIGITAL KEY OPERATED 4-WAY LIGHT SWITCH
SDT	DIGITAL DIMMER LIGHT WITH UP/DOWN & ON/OFF BUTTON
SB1	LOW VOLTAGE SINGLE-BUTTON LIGHT SWITCH
SB2	LOW VOLTAGE TWO-BUTTON LIGHT SWITCH
SB3	LOW VOLTAGE THREE-BUTTON LIGHT SWITCH
SB4	LOW VOLTAGE FOUR-BUTTON LIGHT SWITCH
OS	DIGITAL HIGH BAY INFRARED OCCUPANCY SENSOR
OS	DIGITAL CEILING MOUNTED ULTRASONIC TECHNOLOGY OCCUPANCY SENSOR
OS	DIGITAL CEILING MOUNTED INFRARED TECHNOLOGY OCCUPANCY SENSOR
OS	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
OS	CORNER MOUNT LIGHTING OCCUPANCY SENSOR AT +12FT
	PHOTO CELL FOR DAYLIGHT CONTROL
$VS	DUAL TECHNOLOGY WALL OCCUPANCY SENSOR WALL SWITCH
$IR	INFRARED WALL OCCUPANCY SESNOR WALL SWITCH, LUTRON MS-Z101
$OS	WALL OCCUPANCY SESNOR WALL SWITCH
RCA	ROOM CONTROLLER
PL	PLUG LOAD CONTROLLER
EL	REMERGENCY LIGHTING CONTROL UNIT
GDTF	GENERATOR TRANSFER DEVICE FOR LIGHT FIXTURES
A a	LIGHT FIXTURE. CAPITAL LETTER INDICATES FIXTURE TYPE. LOWERCASE LETTER INDICATES ZONE CONTROLLED.
	CEILING MOUNTED EXIT SIGN. SHADED AREAS INDICATE LIGHTED SIDES.
	WALL MOUNTED EXIT SIGN. SHADED AREAS INDICATE LIGHTED SIDES.
$	20A, 125V/277V LIGHT SWITCH
$3	20A, 125V/277V 3-WAY LIGHT SWITCH
$4	20A, 125V/277V 4-WAY LIGHT SWITCH
$K	20A, 125V/277V KEY OPERATED LIGHT SWITCH
$3K	20A, 125V/277V KEY OPERATED 3-WAY LIGHT SWITCH
$4K	20A, 125V/277V KEY OPERATED 4-WAY LIGHT SWITCH
$T	TIMER SWITCH
TC	TIME CLOCK
LC	LIGHTING CONTACTOR

NOTES:

1. ALL KEY SWITCHES MUST HAVE KEY TYPE APPROVED BY OWNER.
2. MOUNTING HEIGHT FOR LIGHT SWITCHES SHALL BE AT +46" AFF. SEE SPECIFICATIONS FOR MOUNTING HEIGHT OF OTHER DEVICES.
3. FIXTURES WITH 'NL' DESIGNATE NIGHT LIGHT FIXTURES (ALWAYS ON).
4. IF ZONE NOT INDICATED. LIGHT FIXTURES SHALL BE CONTROLLED BY SWITCH IN THAT ASSOCIATED SPACE.
5. LOWERCASE LETTER AT SWITCH INDICATES ZONE CONTROLLED.
6. FOR ADJUSTABLE SENSORS, SET TIME DELAY TO 30 MINUTES AND SENSITIVITY TO 100%.
7. ALL CEILING MOUNT SENSORS SHOULD BE LOCATED A MINIMUM OF SIX FEET FROM HVAC SUPPLY/RETURN VENTS.
8. CONTRACTOR SHALL PROVIDE THE APPROPRIATE NUMBER OF ROOM CONTROLLERS FOR THE PROJECT. COORDINATE WITH THE MANUFACTURER FOR THE CORRECT QUANTITY.
9. CONTRACTOR SHALL PROVIDE 4"X4" JUNCTION BOX AS REQUIRED.

MOUNTING HEIGHTS

HEIGHT	DESCRIPTION
10'-0"	EMERGENCY BATTERY UNITS (OR 1'-0" BELOW CEILING)
90" TO 6"BELOW CLG	FIRE ALARM AUDIBLE ALARM SIGNALS
7'-6" TO 8'-0"	FIRE ALARM COMBINATION ALARM SIGNALS
7'-0" TO 8'-0"	FIRE ALARM VISUAL SIGNALS
6'-6"	TOP OF ELECTRICAL PANEL BOARDS
6'-0"	TOP OF HIGHEST ELECTRICAL DISCONNECT SWITCH OR STARTER
4'-0"	TOP OF WALL MOUNTED DEVICES SUCH AS LIGHT SWITCHES, MANUAL MOTOR STARTERS, THERMOSTATS , TELEPHONE/INTERCOM HANDSETS, FIREALARM, PULLSTATIONS, ETC.
4'-0"	TOP OF WALL MOUNTED WIREMOLD (U.N.O.)
2'-0"	BOTTOM OF RECEPTACLES IN MECHANICAL ROOMS AND EXTERIOR OF BUILDING
1'-6"	TOP OF ELECTRICAL PANEL BOARDS
0'-0"	FINISHED FLOOR ELEVATION.

FIRE ALARM LEGEND

SYMBOLS	DESCRIPTION
FA; SW	FIRE ALARM HORN/STROBE AND SPEAKER/STROBE, WALL MOUNTED
V	FIRE ALARM STROBE, WALL MOUNTED
H; S	FIRE ALARM HORN AND SPEAKER, WALL MOUNTED
	FIRE ALARM HORN/STROBE AND SPEAKER /STROBE, CEILING MOUNTED
M	FIRE ALARM STROBE, CEILING MOUNTED
	FIRE ALARM HORN AND SPEAKER, CEILING MOUNTED
F	FIRE ALARM MANUAL PULL STATION
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR PANEL
D	DUCT SMOKE DETECTOR
PS	CEILING MOUNTED SMOKE DETECTOR.
H	CEILING MOUNTED HEAT DETECTOR, 135° UON.
H 195	CEILING MOUNTED HEAT DETECTOR, 195° UON.
CO	CARBON MONOXIDE DETECTOR
SC	COMBINATION SMOKE/CARBON MONOXIDE DETECTOR
BD	BEAM DETECTOR
DH	DOOR HOLDER
TS	SPRINKLER SYSTEM TAMPER SWITCH
FS	SPRINKLER SYSTEM FLOW SWITCH
AM	ADDRESSABLE MODULE
S KL	REMOTE TEST KEY SWITCH AND INDICATING LIGHT FOR SMOKE DUCT DETECTOR
BS; CB	TWO-WAY COMMUNICATION BASE STATION/CALL BOX

NOTES:

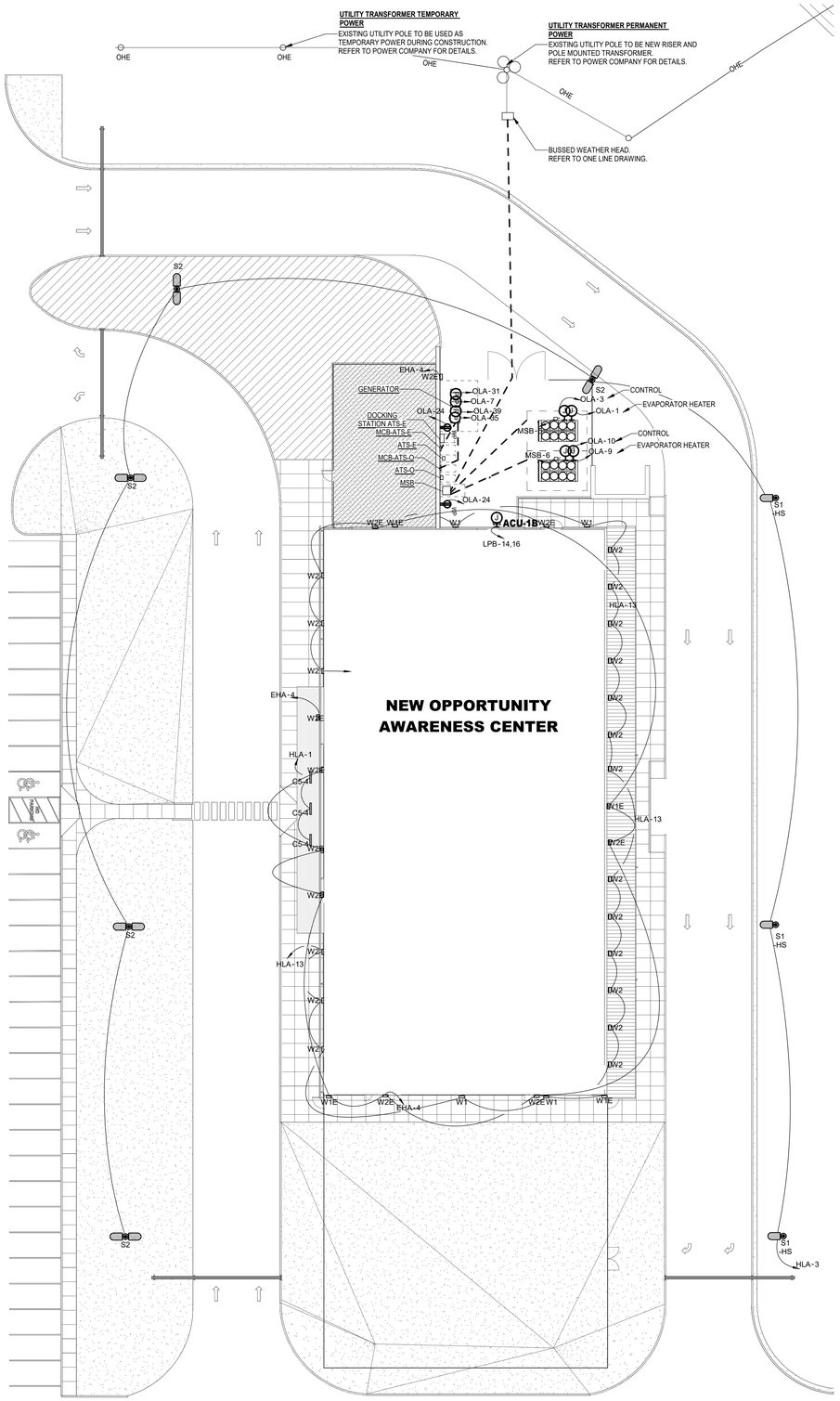
1. ALL FIRE ALARM DEVICES LOCATED OUTDOOR OR AT AREA WITHOUT AIR CONDITIONING SHALL BE RATED FOR WET LOCATION.
2. PROVIDE PROTECTIVE GUARD TO PROTECT ALL FIRE ALARM DEVICES AT THE GYM AND SPORTS AREA.
3. SEE ARCHITECTURAL PLAN FOR CEILING HEIGHT. PROVIDE SMOKE SAMPLING TUBE AND PIPE SYSTEM FOR AREA WITH 30FT CEILING IN LIEU OF CEILING SMOKE DETECTOR.
4. STROBE LIGHT OUTPUT MUST COMPLY WITH NFPA 72 AND ADA REQUIREMENTS.

ELECTRICAL ABBREVIATIONS

A	AMPERE
AF	AMP FRAME
AT	AMP TRIP
AC	ALTERNATING CURRENT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
CB	CIRCUIT BREAKER
CATV	COMMUNITY ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CPU	CENTRAL PROCESSING UNIT
CU	COPPER
CT	CURRENT TRANSFORMER
DC	DIRECT CURRENT
DN	DOWN
EX	EXISTING
E	EMERGENCY
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FDR	FEEDER
FL	FLOOR
F	FUSE OR FUSED
FVNR	FULL VOLTAGE NON REVERSING
GEN	GENERATOR
GF	GROUND FAULT (DETECTOR)
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
G OR GND	GROUND
HT	HEIGHT
HID	HIGH INTENSITY DISCHARGE
HP	HORSE POWER
HOA	HAND-OFF-AUTOMATIC
ISO	ISOLATED
JB	JUNCTION BOX
K	KILO, THOUSAND
KCMIL	THOUSAND CIRCULAR MILS
LED	LIGHT EMITTING DIODE
M	MOTOR
MATV	MASTER ANTENNA TELEVISION
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MF	MAIN FUSE
MH	MOUNTING HEIGHT
MLO	MAIN LUGS ONLY
MT	MOUNT
MTG	MOUNTING
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
P	POLE
PNL	PANELBOARD
PVC	POLY-VINYL-CHLORIDE
RC	REMOTE CONTROL
RECPT	RECEPTACLE
REF	REFERENCE
RMS	ROOT MEAN SQUARE
ST	SHUNT TRIP
SYM	SYMMETRICAL
SW	SWITCH
SWBD	SWITCHBOARD
TB	TERMINAL BOX
TC	TIME CLOCK
TEL	TELEPHONE
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VA	VOLT-AMPERE
W	WATTS
WP	WEATHERPROOF COVER (RECEPTACLES SHALL BE WEATHER-RESISTANT GFCI TYPE)
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
Y	WYE
Z	IMPEDANC

GENERAL ELECTRICAL NOTES

1. REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. INSTALL SYSTEMS IN ACCORDANCE WITH THE 2023 NATIONAL ELECTRIC CODE.
3. ALL UNDERGROUND FEEDERS SHALL BE RED CONCRETE ENCASED.
4. PROVIDE LIGHT FIXTURE FIRE PROTECTION AND CONDUIT FIRE SEALING TO MAINTAIN FIRE RATING OF WALLS AND CEILINGS PER ARCHITECT'S SCHEDULE. REFER TO SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
5. DRAWINGS ARE DIAGRAMMATIC AND DEFINE THE INTENT OF THE WORK. LOCATIONS OF EQUIPMENT, FIXTURES, DEVICES, PANELBOARDS, DUCTS, PIPING, DIFFUSERS, PARTITIONS, OPENINGS, ETC. ARE APPROXIMATE AND ARE SUBJECT TO MODIFICATIONS CAUSED BY STRUCTURAL CONDITIONS AND EQUIPMENT PROVIDED BY OTHER CONTRACTORS, SUBCONTRACTORS OR THE OWNER. COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES. PRIOR TO INSTALLATION, REVIEW THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. IN THE EVENT OF CONFLICT, THE ARCHITECT'S LOCATION WILL GENERALLY PREVAIL BUT SHOULD BE CLARIFIED BY RFI. PROVIDE DEVICES SHOWN ON THE ELECTRICAL DRAWING EVEN IF NOT SHOWN ON ARCHITECTURAL DRAWINGS. MINOR MODIFICATIONS OF LAYOUT AND ADJUSTMENTS TO EFFECT SUCH COORDINATION SHALL BE MADE AT NO COST TO THE OWNER. SPECIFICATIONS MAY REQUIRE WORK, EQUIPMENT, SYSTEMS, METHODS, ETC. THAT IS NOT INDICATED ON THE DRAWINGS.
6. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE COMPLEMENTARY TO EACH OTHER. WHERE DISCREPANCIES OR CONFLICTS OCCUR, THE CONTRACTOR SHALL INCLUDE THE MORE COSTLY METHOD IN HIS PROPOSAL UNLESS CLARIFIED BY BULLETIN OR ADDENDUM ACKNOWLEDGED PRIOR TO RECEIPT OF BIDS.
7. DRAWINGS SHALL NOT BE SCALED. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND REQUIREMENTS OF THE WORK. ALTHOUGH SIZE AND LOCATION OF EQUIPMENT IS DRAWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY INFORMATION AT THE PROJECT SITE.
8. THE TERM 'OTHERS' SHALL BE UNDERSTOOD TO MEAN CONTRACTORS, SUBCONTRACTORS OR TRADESMEN ON THE PROJECT PERFORMING WORK ON THIS PROJECT UNDER SECTIONS OR DIVISIONS OTHER THAN DIVISION 26 - ELECTRICAL WORK.
9. VERIFY THAT FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS ARE AS INDICATED.
10. PRIOR TO BIDDING VISIT THE PROJECT SITE TO DETERMINE THE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. SCHEDULE SITE VISIT WITH OWNER.
11. PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR THE INSTALLATION, RELOCATION AND CONNECTION OF THE ELECTRICAL WORK.
12. ALL MATERIAL SHALL BE UNDERWRITERS' LABORATORIES LISTED FOR ITS APPLICATION WHERE SUCH LISTING IS APPLICABLE.
13. ALL EQUIPMENT SHALL BE AS INDICATED OR AS APPROVED BY THE ENGINEER.
14. SUBMIT SHOP DRAWINGS, PRODUCT DATA SHEETS AND WIRING DIAGRAMS FOR ALL ELECTRICAL CONSTRUCTION MATERIALS, DEVICES, EQUIPMENT, APPLIANCES AND SYSTEMS.
15. REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER TRADES FOR EQUIPMENT LOCATIONS AND CONTROLS.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF DEBRIS GENERATED BY HIS WORK AND WORKERS AT THE END OF EACH WORKING DAY AND FOR GENERAL GOOD HOUSEKEEPING BY HIS WORKERS. CONTRACTOR SHALL PROVIDE REQUIRED REFUSE CONTAINERS.
17. WIRING RUNS INDICATED ON THE DRAWINGS EXPRESS THE INTENT OF CIRCUIT ASSIGNMENT AND SWITCH CONTROL. ACTUAL WIRING METHODS USED SHALL BE SUITED FOR THE CONSTRUCTION OF THE BUILDING. REFER TO DRAWINGS OF OTHER TRADES AND EXISTING CONDITIONS. SEE ARCHITECTURAL DRAWINGS FOR DETAILS. NUMBER OF CONDUCTORS IS NOT ALWAYS INDICATED.
18. PERFORM MANUFACTURER'S RECOMMENDED TESTS AND SUBMIT RESULTS.
19. VERIFY PROPER ROTATION OF ALL ROTATING ELECTRICAL MACHINERY.
20. TEST SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, CABLES, BUS DUCTS, SWITCHES, CIRCUIT BREAKERS, GROUNDING SYSTEM, GROUND FAULT PROTECTION SYSTEM, SURGE ARRESTORS AND TVSS DEVICES, GENERATORS, AND TRANSFER SWITCHES IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE CURRENT EDITION OF THE INTERNATIONAL ELECTRICAL TESTING ASSOCIATION ACCEPTANCE TESTING SPECIFICATIONS FOR ELECTRIC POWER DISTRIBUTION EQUIPMENT AND SYSTEMS (NETA ATS). PERFORM EACH VISUAL AND MECHANICAL INSPECTION AND ELECTRICAL TEST LISTED.
21. CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY OF ANY CONFLICT DISCOVERED BEFORE PERFORMING ANY WORK RELATED TO SUCH CONFLICT.
22. DO NOT INSTALL ELECTRICAL PANELS, SWITCHBOARDS AND TRANSFORMERS BELOW DUCT WORK AND WATER PIPING. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT ELECTRICAL REQUIREMENT OF HVAC EQUIPMENT PRIOR TO ORDERING CIRCUIT BREAKERS AND WIRE.
23. COORDINATE ELECTRICAL EQUIPMENT WITH PIPING AND DUCTWORK. PROVIDE ADEQUATE WORKING CLEARANCE PER NEC PRIOR TO ROUGH-IN.
24. EXACT LOCATION OF EQUIPMENT SHALL BE COORDINATED IN THE FIELD.
25. PERFORM ALL CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF THE WORK. CUT NO STRUCTURAL MEMBER WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. FINISH AND PAINT ALL PATCHED SURFACES WITH TWO COATS OF PAINT TO MATCH EXISTING SURFACES AS CLOSELY AS POSSIBLE. SEAL OPENINGS VERMIN AND WATER PROOF AND MAINTAIN FIRE RATING. USE SPECIFIED TECHNOLOGIES, INC. "SPECSEAL" SERIES LCI FOR PENETRATIONS
26. ALL PENETRATIONS IN FOUNDATION WALLS AND FLOORS INCLUDING SLAB PENETRATIONS SHALL BE SUBSTANTIALLY SEALED BY UTILIZING A NON-CRACKING POLYURETHANE OR SIMILAR CAULK OR EQUIVALENT TO CLOSE OFF THE SOIL GAS ENTRY ROUTES. ALL CONDUITS IN THE SPACE BELOW THE FOUNDATION FLOOR WHICH PENETRATE THESE BARRIERS SHALL HAVE THREADED OR SOLVENTED FITTINGS.
27. ALL NEW RACEWAY, WIRING AND CABLE IN NEW AND EXISTING FINISHED SPACES SHALL BE RUN CONCEALED IN NEW AND EXISTING CONSTRUCTION UNLESS OTHERWISE INDICATED; CUT AND PATCH AS REQUIRED. PROVIDE PULLBOXES, SIZE AND TYPE AS REQUIRED.
28. ALL NEW WIRING IS TO BE RUN CONCEALED WHERE POSSIBLE. PROVIDE PULLBOXES, SIZE AND LOCATION AS REQUIRED.
29. EXPOSED RACEWAY, IF PERMITTED, SHALL BE RUN TRUE, PLUMB AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. [RIGID METAL CONDUIT,] [EMT WITH RAINTIGHT STEEL FITTINGS,] 3/4 INCH MINIMUM, SHALL BE USED OUTDOORS; ELECTRICAL METALLIC TUBING, 3/4 INCH MINIMUM, SHALL BE USED IN INDOOR UNFINISHED SPACES.
30. ALL WIRING SHALL BE COPPER CONDUCTOR WITH 600 VOLTS INSULATION IN METAL RACEWAY WITH APPROVED FITTINGS UNLESS OTHERWISE INDICATED.
31. SERVICE ENTRANCE CONDUCTORS UNDERGROUND IN RACEWAY: TYPE THHN-THWN 90 DEGREE C. WHERE EXPOSED WITHIN THE BUILDING OR STRUCTURE, ENCASE RACEWAY IN CONCRETE, MINIMUM 2-INCHES THICK.
32. FEEDERS AND BRANCH CIRCUITS UNDERGROUND IN RACEWAY: TYPE THHN-THWN 90 DEGREE C
33. INTERIOR FEEDERS AND BRANCH CIRCUITS IN RACEWAY: TYPE THHN 90 DEGREE C.
34. ELEVATOR FEEDER: TYPE THHN, 90 DEGREE C.
35. FEEDERS SHALL BE MINIMUM #6 AWG; BRANCH CIRCUIT WIRING MINIMUM #12 AWG; CONTROL WIRING MINIMUM #14 AWG; UNLESS OTHERWISE INDICATED. FEEDER AND BRANCH CIRCUIT WIRING LARGER THAN #10 AWG SHALL BE STRANDED CONDUCTOR; #10 AWG AND SMALLER, STRANDED CONDUCTOR OR SOLID CONDUCTOR; CONTROL WIRING, STRANDED CONDUCTOR.
36. DO NOT INSTALL CONDUCTORS, WIRES OR CABLES OF ANY OTHER SYSTEM IN THE SAME RACEWAY OR CABLE WITH FIRE ALARM POWER SUPPLY CIRCUITS, NON-POWER LIMITED FIRE ALARM CIRCUITS OR POWER LIMITED FIRE ALARM CIRCUITS.
37. MAKE FLEXIBLE CONNECTIONS TO MOTORS AND OTHER ROTATING / VIBRATING EQUIPMENT.
38. WIRE EXIT LIGHTS AND EMERGENCY FIXTURES (BUGEYES) SHALL BE CIRCUITED TO THE UNSWITCHED SIDE OF THE LIGHTING CIRCUITED FEEDING THE ASSOCIATED AREA.
39. PROVIDE DISCONNECTS FOR ALL APPLIANCES, EQUIPMENT, MOTORS AND CONTROLLERS.
40. INSTALL MOTOR STARTERS, CONTROLLERS OR COMBINATION STARTERS FURNISHED FOR EACH MOTOR. LOCATE AS DIRECTED IN THE FIELD.
41. PROVIDE UN-SWITCHED 125 VOLT 20 AMP RECEPTACLE OUTLETS LOCATED ON THE SAME LEVEL AND WITHIN 25 FEET OF ALL HEATING, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT UNLESS OTHERWISE NOTED.
42. PROVIDE PERMANENTLY INSTALLED LIGHTING OUTLETS TO ILLUMINATE THE AREAS IN ATTICS OR CRAWL SPACES IN WHICH EACH PIECE OF HEATING, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT IS LOCATED. PROVIDE LUMINAIRE, LAMP AND LIGHT SWITCH APPROPRIATE FOR THE LOCATION. INSTALL LIGHT SWITCH NEAR THE ACCESS TO THE AREA UNLESS OTHERWISE NOTED.
43. ROUTE RACEWAYS THROUGH ROOF USING DEDICATED ROOF JACKS OR PITCH POCKETS. RUN RACEWAY ON ROOF ON DEDICATED ROOF SUPPORTS EIGHT INCHES HIGH MINIMUM.
44. ALL 125 VOLT, SINGLE PHASE, 15- AND 20-AMPERE SINGLE AND DUPLEX RECEPTACLES WHICH DO NOT SERVE A DEDICATED APPLIANCE AND ARE WITHIN A 6 FOOT RADIUS OF A SINK, ARE INSTALLED IN WET LOCATIONS, ARE INSTALLED IN BATHROOMS, ON ROOFS, OR OUTDOORS WITH DIRECT GRADE ACCESS, SHALL BE GROUND FAULT CIRCUIT INTERRUPTING TYPE WHERE AVAILABLE OR SHALL BE PROTECTED BY GROUND FAULT CIRCUIT INTERRUPTING CIRCUIT BREAKERS.
45. THE EMERGENCY SYSTEM CONSISTS OF ALL FEEDERS AND BRANCH CIRCUITS INDICATED AS THE LIFE SAFETY AND CRITICAL BRANCHES, THE WIRING OF THE EMERGENCY SYSTEM SHALL BE RUN IN ELECTRICAL METALLIC TUBING IN ACCORDANCE WITH NEC 517-30(C)(3).
46. CONTRACTOR SHALL PROVIDE FIELD MARKINGS ON ELECTRICAL SERVICE EQUIPMENT TO INCLUDE THE AVAILABLE SHORT CIRCUIT RATING FROM THE UTILITY PER NEC 110.24.
47. CONTRACTOR SHALL PROVIDE AND INSTALL A LOCAL LOCKABLE DISCONNECT SWITCH BY EACH PIECE OF MOTORIZED OR PACKAGED EQUIPMENT. DISCONNECT AMPACITY RATING SHALL AT LEAST MATCH THAT OF THE UPSTREAM CIRCUIT BREAKER PROTECTING THE EQUIPMENT. INDOOR DISCONNECTS SHALL BE NEMA 1 TYPE AND OUTDOOR DISCONNECTS SHALL BE NEMA 3R TYPE. DISCONNECTS IN KITCHEN AREAS SHALL BE NEMA 4X TYPE.
48. COORDINATE POWER AND DATA WITH THE FURNITURE SUPPLIER PRIOR TO ROUGH-IN, AT CASEWORK WITH KNEE SPACE, MOUNT RECEPTACLES AND DATA OUTLETS IN KNEE SPACE. COORDINATE WITH ARCHITECT AND FURNITURE SUPPLIER TO ENSURE THAT PROTECTIVE GROMMETS ARE PROVIDED IN THE COUNTER.
49. ELECTRICAL DEVICES IN FIRE RATED WALLS SHALL BE A MINIMUM OF 24" AWAY FROM DEVICES ON THE OPPOSITE SIDE OF THE WALL TO MAINTAIN FIRE RATING.
50. MINIMUM SIZE CONDUIT FOR POWER SHALL BE 3/4". FLEX METAL CONDUIT IN WET AND DAMP LOCATION SHALL HAVE LIQUID TIGHT CONSTRUCTION. MINIMUM SIZE CONDUIT FOR DATA S



1 ELECTRICAL SITE PLAN

SCALE= 1" = 20'-0"

ELECTRICAL SITE NOTES

1. REFER TO ELECTRICAL ONE LINE DRAWING.
2. ALL EXTERIOR ELECTRICAL EQUIPMNET TO BE NEMA 4X.
3. CONDUIT ROUTING SHOWN FOR REFERENCE AND SHALL BE COORDINATED IN THE FIELD.
4. FINAL DESIGN OF THE UTILITY INCOMING POWER SUPPLY SHALL BE BY THE UTILITY COMPANY PROVIDER.
5. ALL WORK SHALL BE COORDINATED IN THE FIELD WITH ALL TRADES. DEVIATIONS FROM CONTRACT DOCUMENTS SHALL BE REPORTED TO THE DESIGN TEAM.
6. PROVIDE UNDERGROUND CONDUIT TO FEED THE NEW POLE MOUNTED LIGHTING FIXTURES. ALL UNDERGROUND CONDUIT SHALL BE COORDINATED WITH CIVIL, MECHANICAL AND PLUMBING PRIOR TO ROUGH-IN.
7. REFER TO LIGHTING FIXTURE SCHEDULE FOR LIGHT FIXTURE SPECIFICATIONS.
8. POLE MOUNTED LIGHT FIXUTURES ARE TO BE CONTROLLED VIA RELAY CONTACTOR LINKED TO A TIMECLOCK AND PHOTOCELL WITH AN OVERRIDE SWITCH TO THE BAS. FINAL LOCATION OF SWITCH TO BE COORDINATED WITH OWNER AND ARCHITECT.
9. SITE POLE LIGHTS SHOULD BE CONTROLLED SEPARATELY FROM ANY EXISTING LIGHTS.
10. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR EXACT WIRE SIZE.
11. PROVIDE RECEPTACLE FOR IRRIGATION CONTROL SYSTEM. FINAL LOCATION TO BE COORDINATED WITH ALL TRADES
12. REFER TO TECHNOLOGY DRAWINGS FOR EXACT CAMERA LOCATIONS.
13. CONTRACTOR TO VERIFY MINIMUM OF 10FEET FROM SERVICE ENTRANCE TO BUSSED WEATHER HEAD.
14. LOCATE LIGHT FIXTURES TO AVOID INTERFERENCE WITH ROLLING GATE OPERATION. COORDINATE LOCATIONS WITH ALL TRADES PRIOR TO INSTALLATION.
15. PROVIDE A TWO-CONTACTOR LIGHTING CONTROL RELAY TO SERVE WALL PACK AND SITE POLE LIGHTING. BUILDING FAÇADE LIGHTING SHALL BE CONTROLLED ON A SEPARATE CONTACTOR AND SHALL OPERATE INDEPENDENTLY OF SITE POLE LIGHTING.

CONDUIT PATH LEGEND

———	CONDUIT PATH IS OVERHEAD.
- - - - - - - -	CONDUIT PATH IS UNDERGROUND.

LEGEND APPLIES TO UTILITY AND SERVICE ENTRANCE.

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ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

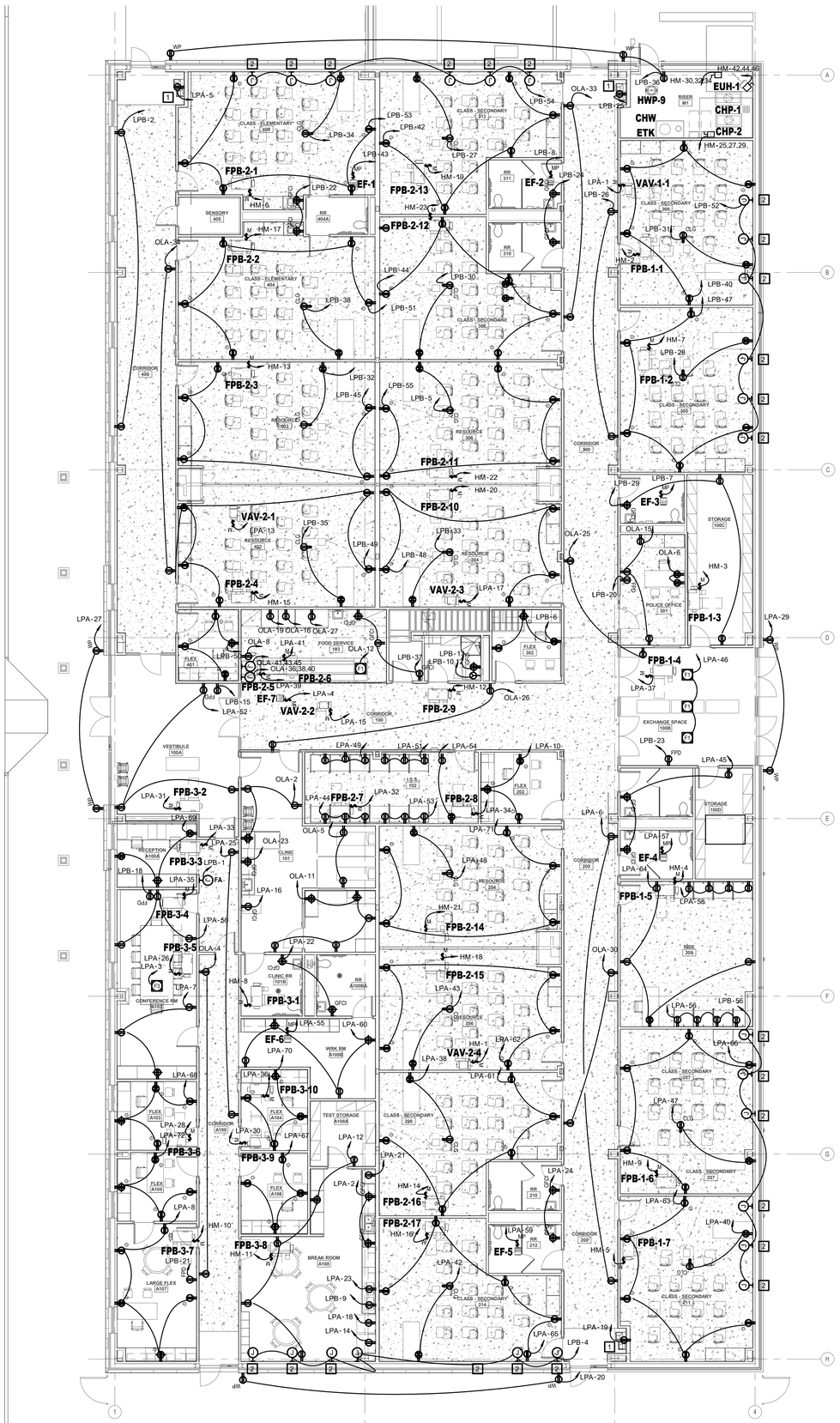
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Designer	Designer
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SHEET TITLE
ELECTRICAL SITE PLAN

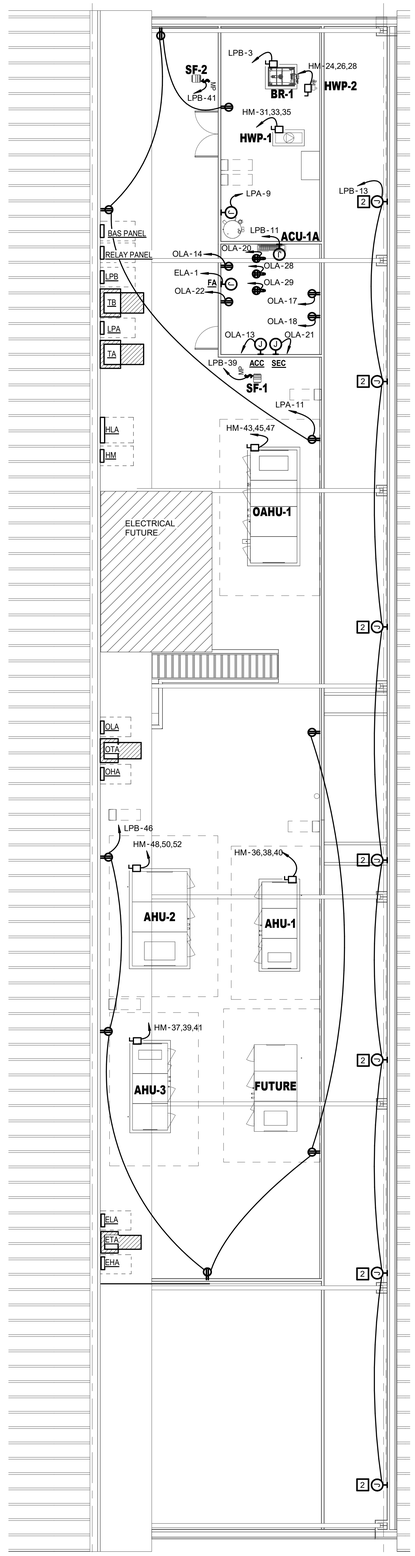
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1 ELECTRICAL POWER LEVEL ONE FLOOR PLAN

SCALE= 1/8" = 1'-0"



2 POWER PLATFORM

SCALE= 1/8" = 1'-0"

GENERAL POWER NOTES

1. INSTALL SYSTEMS IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
2. RACEWAY SYSTEMS:
   A. CONCEAL ALL RACEWAY SYSTEMS IN CEILING, WALLS AND FLOORS. CONDUIT SHALL BE INSTALLED PARALLEL TO BUILDING COORDINATES. PROVIDE ADEQUATE AND STURDY SUPPORT FOR ALL PARTS OF RACEWAY SYSTEM. CONDUIT CONCEALED IN WALLS MAY BE SUPPORTED WITH HEAVY GAGE WIRE HANGERS. EXPOSED CONDUIT MUST BE SUPPORTED WITH MATERIAL SPECIFICALLY MADE FOR THIS PURPOSE. DO NOT USE WIRE HANGERS.
   B. CONTINUITY: MAKE ALL JOINTS AND CONNECTIONS IN A MANNER WHICH WILL INSURE MECHANICAL STRENGTH AND ELECTRICAL CONTINUITY. USE DOUBLE LOCKNUTS AND INSULATED BUSHINGS OR INSULATED COMPRESSION TYPE CONNECTORS FOR ALL CONDUIT CONNECTIONS TO BOXES. USE INSULATED GROUNDING BUSHINGS WHEREVER WHEN INTERNAL GROUND WIRE IS INSTALLED AND WHEN CONCENTRIC OR ECCENTRIC KNOCKOUTS ARE ENCOUNTERED.
   C. PULL BOX LOCATIONS: AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
   D. EXPANSION FITTINGS: INSTALL O.Z. OR EQUAL EXPANSION FITTING IN EACH RUN OF CONDUIT WHICH CROSSES BUILDING EXPANSION JOINT.
   E. OPENINGS: KEEP ALL RACEWAY OPENINGS CLOSED IN A MANNER TO PREVENT ENTRY OF MOISTURE AND FOREIGN MATERIALS UNTIL CONDUCTORS ARE INSTALLED.
   F. FIRE PROOFING: ALL RACEWAY COMPONENTS PASSING THROUGH OR INSTALLED WITHIN U.L. RATED WALLS, CEILING OR FLOOR STRUCTURES SHALL BE FIREPROOFED WITH 3M FIRE BARRIER CP25WB CAULK, MOLDABLE PUTTY OR FS-195 WRAP/STRIP INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
   G. ALL JUNCTION AND PULL BOXES SHALL BE MARKED NOTING CIRCUITS CONTAINED.
   H. SEALING: ALL CONDUIT, JUNCTION BOX, OUTLET BOX AND OTHER PENETRATIONS OF THE BUILDING ENVELOP SHALL BE SEALED WITH NON-HARDENING CAULKING OR OTHER NON-HARDENING MATERIAL AS REQUIRED BY THE INTERNATIONAL ENERGY CONSERVATION CODE.
3. TYPE OF CONDUIT FOR VARIOUS LOCATIONS:
   A. UNDERGROUND: RIGID GALVANIZED STEEL OR SCHEDULE 40 PVC.
   B. IN CONCRETE WALLS: RIGID GALVANIZED STEEL OR SCHEDULE 40 PVC.
   C. IN MASONRY WALLS: RIGID GALVANIZED STEEL.
   D. INSIDE OF BUILDING IN CEILING CAVITY OR IN DRY WALL: GALVANIZED STEEL EMT WITH STEEL, COMPRESSION FITTINGS.
   E. USE FLEXIBLE CONDUIT ONLY FOR CONNECTION TO MOTORS FROM RIGID CONDUIT SYSTEM. PROVIDE LIQUID TIGHT CONSTRUCTION AND FITTINGS. MAXIMUM LENGTH IS SIX FEET.
   F. FITTINGS: ALL RIGID GALVANIZED STEEL CONDUIT SHALL HAVE THREADED FITTINGS. PROVIDE INSULATED BUSHINGS FOR ALL CONNECTIONS TO BOXES WHERE THREADED CONDUIT IS USED. PROVIDE INSULATED BUSHINGS FOR ALL EMT CONDUIT 1" OR LARGER OR HOUSING #6 OR LARGER WIRES.
4. PROVIDE PULL BOXES, JUNCTION BOXES, WIRING TROUGHS AND CABINETS WHEREVER REQUIRED FOR PROPER INSTALLATION OF VARIOUS ELECTRICAL SYSTEMS. PULL BOXES SHALL BE MADE OF CODE GAGE STEEL WITH SIDES FORMED AND WELDED, SCREW COVERS UNLESS SHOWN TO HAVE HINGED DOORS. HINGED DOORS TO BE SAME AS FURNISHED ON PANEL BOARDS, WITH SAME LOCKING DEVICES. KNOCKOUTS SHALL BE FACTORY MADE OR FORMED IN FIELD WITH A CUTTING TOOL WHICH WILL PROVIDE A CLEAN, SYMMETRICALLY CUT HOLE. DO NOT GANG BOXES OR USE EXTENSION RINGS TO INCREASE CAPACITY.
5. PROVIDE OUTLET BOXES FOR ALL SWITCHES, RECEPTACLES AND THE VARIOUS OTHER OUTLETS AND EQUIPMENT SHOWN. OUTLET BOXES SHALL BE GALVANIZED STEEL, ONE PIECE CONSTRUCTION, IN ALL CASES SUITABLE FOR INTENDED USE. PROVIDE "GANG" BOXES WHERE DEVICES ARE SHOWN GROUPED. USE HOT DIPPED GALVANIZED CAST IRON FOR FLOORS OR EXTERIOR LOCATIONS.
6. ALL WIRING SHALL BE 600 VOLT, SOFT DRAWN ANNEALED COPPER, 98% CONDUCTIVITY, CONTINUOUS FROM OUTLET TO OUTLET. MINIMUM WIRE SIZE #12. ALL WIRE SHALL BE STRANDED TYPE THHN OR THWN-2 (WET RATED FOR 90° C). ALL WIRES SHALL BE COLOR CODED WITH SAME COLOR CONNECTED TO SAME UNGROUNDED PHASE THROUGHOUT THE INSTALLATION.
7. ALL CIRCUIT SHALL HAVE GREEN GROUND WIRE SIZED PER NATIONAL ELECTRIC CODE. PERMANENTLY AND SECURELY GROUND THE REFRIGERATION EQUIPMENT AND CONDUIT SYSTEM AND ALL OTHER COMPONENTS OF THE ELECTRICAL SYSTEM INSTALLED OR CONNECTED BY THE SUB-CONTRACTOR. FOLLOW NEC AND BUILDING CODE REQUIREMENTS.
8. WHERE PORTIONS OF INTERIOR RACEWAY SYSTEM ARE EXPOSED TO WIDELY DIFFERENT TEMPERATURES, PROVIDE AIR SEALING PER NEC TO PREVENT CIRCULATION OF AIR FROM WARMER TO A COOLER SECTION.
9. ALL MATERIAL MUST BE NEW AND OF GOOD QUALITY AND SHALL BEAR THE STAMP OF APPROVAL OF THE UNDERWRITERS' LABORATORIES, INC. (U.L.).

ELECTRICAL KEY NOTES

1. DRINKING FOUNTAINS ARE TO HAVE A BLANK FACE GFCI LOCATED AT 84" AFF.
2. LOCATION OF MOTORIZED SHADE CONNECTION TO BE FIELD VERIFIED.

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05/26/2026

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Katy, TX

NEW OPPORTUNITY AWARENESS CENTER

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Designer
Drawn By	AR & CR

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SHEET TITLE

ELECTRICAL POWER LEVEL ONE FLOOR PLAN

SHEET NO.

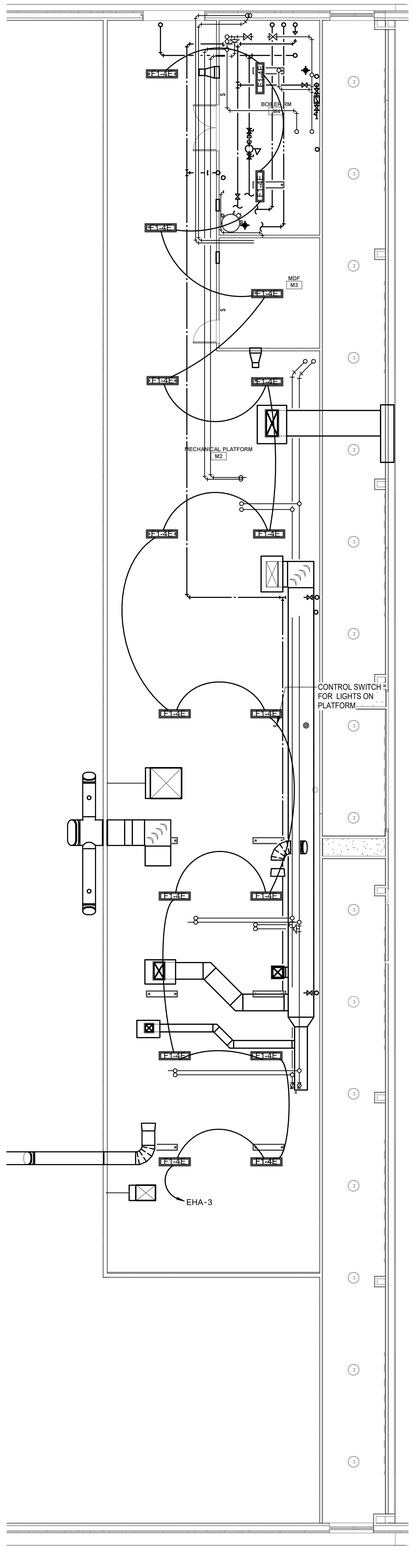
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1 ELECTRICAL LIGHTING LEVEL ONE CEILING PLAN

SCALE= 1/8" = 1'-0"



2 ELECTRICAL LIGHTING PLATFORM CEILING PLAN

SCALE= 1/8" = 1'-0"

GENERAL LIGHTING NOTES

1. ALL EXIT SIGNS SHALL BE MOUNTED AT 6" ABOVE THE DOOR FRAME. ALL EXIT SIGNS TO BE CONNECTED WITH 2#12 + 1#12G IN 3/4" CONDUIT TO NEAREST UNSWITCHED EMERGENCY LIGHTING CIRCUIT.
2. ALL LIGHTING TO BE COORDINATED WITH ARCHITECTURAL RCP PLANS FOR EXACT LOCATIONS AND ELEVATIONS.
3. EXTERNAL LIGHTING SHALL BE CONTROLLED VIA CONTACTOR PANEL LINK TO THE BAS.
4. REFER TO LIGHTING SCHEDULE DRAWING FOR THE LUMINARIES SPECIFICATION.
5. MULTIPLE SWITCHES SHOWN TOGETHER SHALL BE GANGED TOGETHER UNDER A COMMON COVER PLATE.
6. FINAL FINISH OF ALL LIGHTING FIXTURES ARE TO BE AGREED WITH THE ARCHITECT.
7. ALL CLASSROOMS TO HAVE LIGHTING CONTROL WITH MANUAL DIMMING. CLASSROOMS TO BE PROVIDED WITH 6 BUTTON 1 GANG DIMMABLE SWITCH, PROVIDE 2 LIGHTING ZONE FOR PROJECTOR AND FULL CLASSROOM. COORDINATE FINAL LOCATION OF TEACHING WALL PER CLASSROOM PRIOR TO CIRCUITING LIGHTING ZONE.
8. ALL CEILING MOUNTED DEVICES LOCATED IN LAY-IN CEILINGS SHALL BE CENTERED IN THE CEILING TILE. DETECTION SHALL BE DUAL TECHNOLOGY TYPE WITH INFRARED AND ULTRASONIC OR PHONIC.
9. EMERGENCY LIGHTING SHALL BE FED FROM THE LIFE SAFETY PANEL FROM THE GENERATOR. CIRCUITS SHALL BE ROUTED IN SEPARATE CONDUIT FOR EMERGENCY LIGHTING.
10. FINAL LAYOUT OF EMERGENCY EXIT SIGN TO BE CONFIRMED WITH THE EGRESS PLAN. EXIT SIGNS TO BE FED FROM THE CLOSEST EMERGENCY LIGHTING CIRCUIT.
12. ALL LIGHTING SWITCHES PLATE SHALL BE WITH GRAY COLOR.
13. ALL LIGHTING FIXTURES INSTALLED WITHIN MDF/IDF ROOM SHALL BE COORDINATED WITH RACK FINAL LOCATION PRIOR ROUGH-IN.
14. NETWORKED LIGHTING CONTROL SHALL BE INTEGRATED WITH THE BUILDING MANAGEMENT CONTROL SYSTEM (BMCS/BAS) TO ALLOW THE BMCS TO MONITOR THE INDIVIDUAL ROOM/SPACE/AREA OCCUPIED/UNOCCUPIED STATE OF THE OCCUPANCY AND VACANCY SENSORS TO ENHANCE BMCS CONTROL OF HVAC EQUIPMENT. THE PHYSICAL INTEGRATION SHALL BE A SINGLE POINT OF COMMUNICATION BETWEEN THE LIGHTING CONTROL NETWORK HEAD END OR MASTER CONTROLLER AND THE BMCS.
15. NETWORKED LIGHTING CONTROL SHALL BE INTEGRATED WITH THE FIRE ALARM SYSTEM TO ALLOW THE FIRE ALARM SYSTEM TO FORCE TO FULL ON ALL NFPA 101 EGRESS PATH LIGHTING THAT IS CONTROLLED BY OCCUPANCY OR VACANCY SENSORS UPON ACTIVATION OF A FIRE ALARM OR FIRE DRILL.
16. LOW VOLTAGE LV CONTROL KEY SWITCHES AND LOW VOLTAGE LV OVERRIDE KEY SWITCHES SHALL USE A LEVITON #WS-35 TYPE KEY, THIS MAY INCLUDE THE USE OF LEVITON 120/277-VOLT KEY TOGGLE OR MOMENTARY SWITCHES TO BE USED ON LOW VOLTAGE CONTROL CIRCUITS TO ACHIEVE THE PROPER FUNCTION.
17. LV SPDT KEY SWITCH NEXT TO EACH SECURITY KEYPAD TO MANUALLY TURN CORRIDOR LIGHTS ON/OFF. LIGHTS WILL REMAIN ON AFTER MANUAL ON FOR TWO HOURS MINIMUM AND THEN UNTIL AN UNOCCUPIED STATE OR MANUALLY TURNING OFF AT THE KEY SWITCH IN WHICH THE LIGHTS SHALL TURN OFF. ANY OCCUPANCY SENSOR IN A RESPECTIVE CORRIDOR SHALL TURN ON ALL CORRIDOR LIGHTS LOCATED IN THAT CORRIDOR REGARDLESS OF CORRIDOR SIZE OR LENGTH.
19. EXIT SIGNS SHALL BE PROVIDED WITH 'RED' LETTERING.

LIGHT CONTROL SCHEDULE	CORRIDORS	CLASSROOMS	MEP ROOMS	OFFICE	STORAGE	RESTROOM	BREAKROOM	NURSE	EXTERIOR
TOGGLE SWITCH			X						
DIMMER SWITCH		X		X			X		
SCENE SWITCH									
KEY SWITCH	X								
TOUCH SCREEN CONTROL PANEL FOR MOTORIZED SHADES	X								
OCCUPANY SWITCH (OCCUPANCY SENSOR MODE)						X		X	
OCCUPANCY SWITCH (VACANCY MODE)					X			X	
OCCUPANCY SENSOR (OCCUPANCY MODE)	X	X		X			X		X
DAYLIGHT SENSOR	X								X
TIMECLOCK CONTROL									X
OVERRIDE SWITCH									X

NOTES:

NURSE: LIGHTS OVER EXAM TABLE TO BE VACANY MODE, ALL OTHER LIGHTS TO BE OCCUPANY MODE.

PROVIDE ZONE CONTROL FOR SITE LIGHTING. ROOM TYPES FOR INTENT ONLY. REFER TO PLANS

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Designer	Designer
Drawn By	AR

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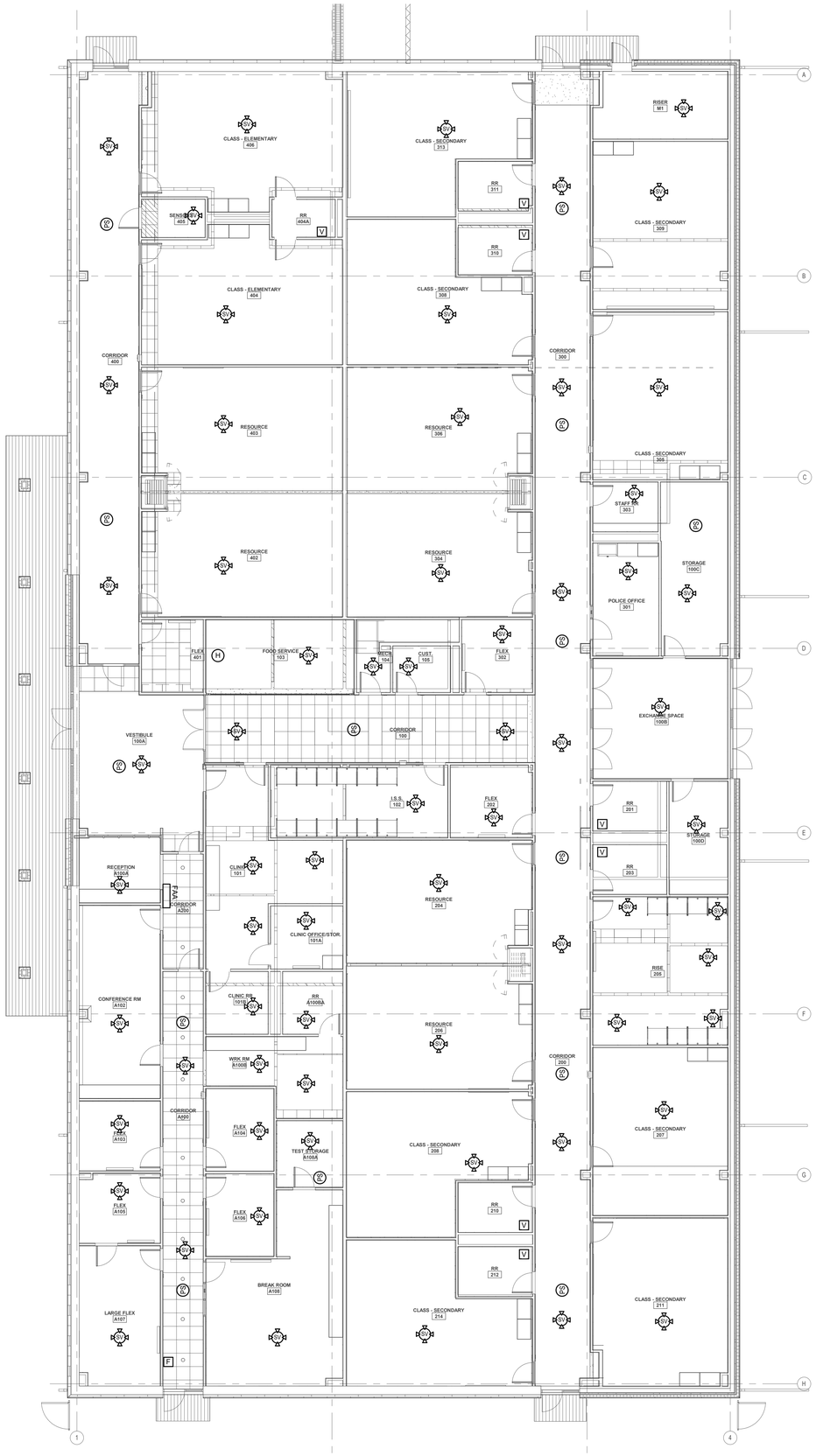
SHEET TITLE

ELECTRICAL LIGHTING LEVEL ONE CEILING PLAN

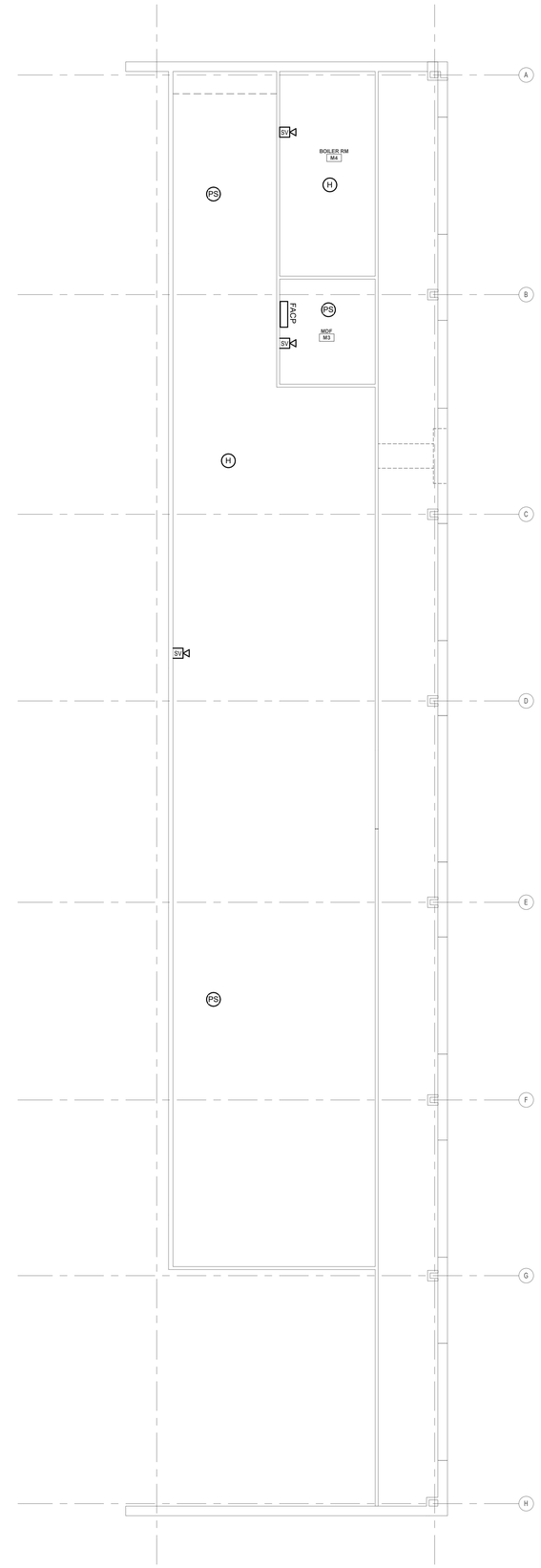
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1 **ELECTRICAL FIRE ALARM LEVEL ONE CEILING PLAN**
SCALE= 1/8" = 1'-0"



2 **ELECTRICAL FIREALARM PLATFORM CEILING PLAN**
SCALE= 1/8" = 1'-0"

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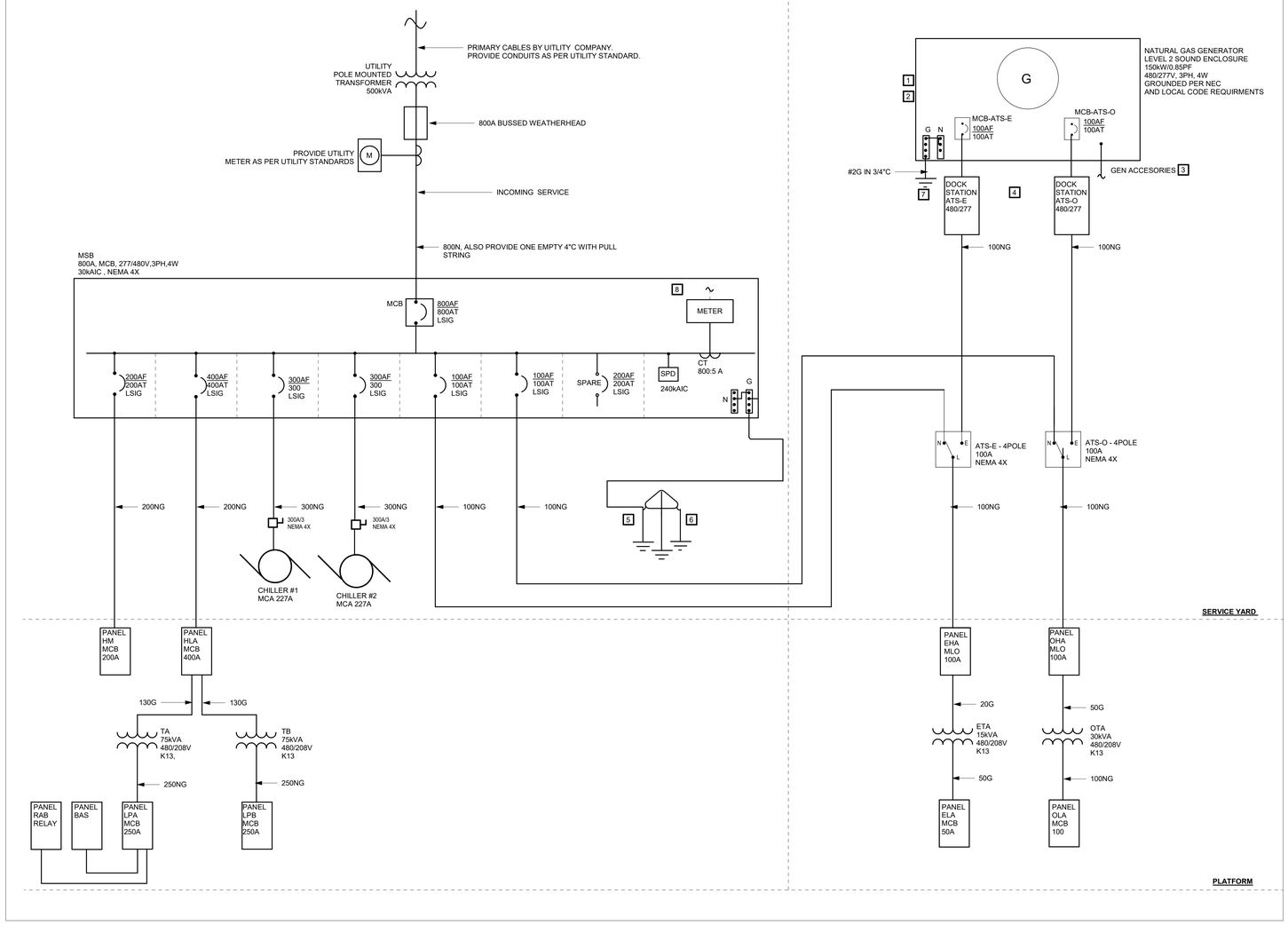
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SHEET TITLE
ELECTRICAL FIRE ALARM LEVEL ONE CEILING PLAN

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1 _ONE LINE DIAGRAM

SCALE= NOT TO SCALE

GENERAL ELECTRICAL NOTES

1. REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. INSTALL SYSTEMS IN ACCORDANCE WITH THE 2023 NEC.
3. ALL MATERIAL MUST BE NEW AND OF GOOD QUALITY AND SHALL BEAR THE STAMP OF APPROVAL OF UNDERWRITTERS' LABORATORIES, INC. (UL).
4. COORDINATE WITH MECHANICAL FOR EXACT ELECTRICAL REQUIREMENTS PRIOR TO ORDERING EQUIPMENT.
5. ELECTRICAL EQUIPMENT HAS BEEN COORDINATED WITH PIPING AN DUCTWORK. DO NOT RELOCATE PANELS WITHOUT PRIOR APPROVAL.
6. DO NOT INSTALL ELECTRICAL EQUIPMENT UNTIL 1/4" SCALE DRAWINGS SHOWING THE LOCATION OF EQUIPMENT RELATIVE TO MECHANICAL AND PLUMBING ARE SUBMITTED, APPROVED AND CLEARANCES MAINTED AS PER NEC AND AHJ.
7. ALL OUTDOOR EQUIPMENT SHALL BE RATED NEMA 4X.
8. SEE SHORT CIRCUIT ANALYSIS FOR EQUIPMENT INTERRUPT CURRENT RATING.
9. ALL FEERDERS AND BRANCH CIRCUITS SHALL HAVE GREEN GROUND WIRE SIZED PER NEC.
10. CONTRACTOR SHALL SUBMIT ONE LINE DIAGRAM AND PANEL SCHEDULES TO SWITCHGEAR MANUFACTURER TO PROVIDE PHASE SHIFT STUDIES FOR HARMONIC MITIGATION TRANSFORMERS PRIOR TO ORDERING THE HARMONIC MITIGATION TRANSFORMERS.
11. SEE PANEL SCHEDULES FOR FEEDER SIZES NOT SHOWN ON THIS DRAWING.
12. ALL HIGH AND LOW PANELS WITH SPDS INTERGRAL TO THE PANEL.

ELECTRICAL KEY NOTES

1. PROVIDE A RED MUSHROOM-HEAD EMERGENCY STOP PUSHBUTTON FOR GENERATOR SHUTDOWN, LOCATED IN AN ACCESSIBLE POSITION.
2. INSTALL GENERATOR PER MANUFACTURER REQUIREMENTS.MPROVIDE MINIMUM CLEARANCES AS FOLLOWS:
   10 FT MIN FROM PROPERTY LINES
   3 FT MIN FROM EXTERIOR WALLS AND ROOF OVERHANGS.
   10 FT MIN FROM OPERABLE OPENINGS (DOORS, WINDOWS, AIR INTAKES).
   10 FT MIN ABOVE ADJOINING OPENINGS.
3. PROVIDE BRANCH CIRCUITS FOR BATTERY CHARGER, ALTERNATOR HEATER, COOLANT HEATER, AND TWO (2) I"-C CONTROL CIRCUITS. REFER TO PANEL SCHEDULE FOR CIRCUITING.
4. PROVIDE TWIST LOCKS FOR DOCKING STATION. PROVIDE TWO (2) BANANA PLUG CLIPS FOR TEMPORARY GENERATOR START SIGNAL. USE #12 AWG IN 1" CONDUIT BACK TO ATS-E.
5. CONNECT GROUND BAR TO THREE GROUND RODS IN 10FOOT TRIANGLE WITH 4/0G. REF GROUNDING DETAIL FOR ADDITIONAL BONDING TO BLDG STEEL AND WATER/METAL PIPING
6. GROUND NEUTRAL IN MAIN CIRCUIT BREAKER TO GROUND BAR THEN TO GROUND RODS WITH 300KCMIL, 1"C
7. BOND NEUTRAL TO GROUND BAR IN GENERATOR.
8. PROVIDE DATA DROP FOR METER INTERCONNECT TO MDF VIA 3/4"C

COPPER FEEDER SCHEDULE

FEEDER DESIGNATION	NO. OF SETS	PHASE CONDUCTORS (PER SET)	N NEUTRAL CONDUCTOR (PER SET)	G GROUND CONDUCTOR (PER SET)	SG SYSTEM BONDING JUMPER (PER SET)	P PARTIAL NEUTRAL SERVICE CONDUCTOR (PER SET)	I ISOLATE GROUND CONDUCTOR (PER SET)	CONDUIT SIZE – CONDUIT TYPES EMT, FCM, IMC, RMC, SCH 40 PVS: 3 PHASE NEUTRAL & GROUND 'NG','NSG', 'PG','PSG' (PER SET)	3 PHASE & GROUND 'G' (PER SET)	3 PHASE NEUTRAL GROUND & ISOLATE GROUND 'NGI','NSGI' (PER SET)	CONDUIT SIZE – CONDUIT TYPES SCH 80 PVC: 3 PHASE NEUTRAL & GROUND 'NG','NSG', 'PG','PSG' (PER SET)	3 PHASE & GROUND 'G' (PER SET)	3 PHASE NEUTRAL GROUND & ISOLATE GROUND 'NGI','NSGI' (PER SET)
15	1	3 # 12	1 # 12	1 # 12	1 # 8	*	1 # 12	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
20	1	3 # 12	1 # 12	1 # 12	1 # 8	*	2 # 12	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
30	1	3 # 10	1 # 10	1 # 10	1 # 8	*	1 # 10	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
40/50	1	3 # 8	1 # 8	1 # 10	1 # 8	*	1 # 10	3/4"	3/4"	1"	1"	3/4"	1"
60	1	3 # 6	1 # 6	1 # 10	1 # 8	*	1 # 10	1"	3/4"	1"	1"	1"	1 1/4"
70/80	1	3 # 4	1 # 4	1 # 8	1 # 8	*	1 # 8	1 1/4"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
100	1	3 # 2	1 # 2	1 # 6	1 # 6	1 # 8	1 # 8	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/4"	1 1/2"
115	1	3 # 2	1 # 2	1 # 6	1 # 8	1 # 8	1 # 6	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/4"	1 1/2"
130	1	3 # 1	1 # 1	1 # 6	1 # 6	1 # 6	1 # 6	1 1/2"	1 1/2"	1 1/2"	2"	1 1/2"	2"
150	1	3 # 1/0	1 # 1/0	1 # 6	1 # 6	1 # 6	1 # 6	2"	1 1/2"	2"	2"	1 1/2"	2"
175	1	3 # 2/0	1 # 2/0	1 # 6	1 # 4	1 # 4	1 # 6	2"	1 1/2"	2"	2"	2"	2"
200	1	3 # 3/0	1 # 3/0	1 # 6	1 # 4	1 # 4	1 # 6	2"	2"	2"	2 1/2"	2"	2 1/2"
225	1	3 # 4/0	1 # 4/0	1 # 4	1 # 2	1 # 2	1 # 4	2 1/2"	2"	2 1/2"	2 1/2"	2"	2 1/2"
250	1	3 # 250	1 # 250	1 # 4	1 # 2	1 # 2	1 # 4	2 1/2"	2"	2 1/2"	3"	2 1/2"	3"
300	1	3 # 350	1 # 350	1 # 4	1 # 2	1 # 2	1 # 4	3"	2 1/2"	3"	3"	3"	3"
350	1	3 # 500	1 # 500	1 # 3	1 # 1/0	1 # 1/0	1 # 3	4"	3"	4"	4"	3"	4"
400	2	3 # 3/0	1 # 3/0	1 # 3	1 # 1/0	1 # 1/0	1 # 3	2"	2"	2 1/2"	2 1/2"	2"	2 1/2"
460	2	3 # 4/0	1 # 4/0	1 # 2	1 # 1/0	1 # 1/0	1 # 2	2 1/2"	2"	2 1/2"	2 1/2"	2"	2 1/2"
500	2	3 # 250	1 # 250	1 # 2	1 # 1/0	1 # 1/0	1 # 2	2 1/2"	2 1/2"	3"	3"	2 1/2"	3"
600	2	3 # 350	1 # 350	1 # 1	1 # 2/0	1 # 2/0	*	3"	2 1/2"	*	3"	3"	*
700	2	3 # 500	1 # 500	1 # 1/0	1 # 2/0	1 # 2/0	*	4"	3"	*	3"	3"	*
800	3	3 # 300	1 # 300	1 # 1/0	1 # 2/0	1 # 2/0	*	3"	2 1/2"	*	3"	2 1/2"	*
1000	3	3 # 400	1 # 400	1 # 2/0	1 # 3/0	1 # 3/0	*	3"	3"	*	4"	3"	*
1200	4	3 # 350	1 # 350	1 # 3/0	1 # 4/0	1 # 4/0	*	3"	2 1/2"	*	3"	3"	*
1600	5	3 # 400	1 # 400	1 # 4/0	1 # 250	1 # 250	*	3"	3"	*	4"	3"	*
2000	6	3 # 400	1 # 400	1 # 250	1 # 300	1 # 300	*	3"	3"	*	4"	3"	*
2500	7	3 # 500	1 # 500	1 # 350	1 # 500	1 # 500	*	4"	3"	*	4"	4"	*
3000	8	3 # 500	1 # 500	1 # 400	1 # 500	1 # 500	*	4"	3"	*	4"	4"	*
4000	11	3 # 500	1 # 500	1 # 500	2 # 350	1 # 500	*	4"	4"	*	4"	4"	*

EXAMPLES:
1. 150NG = INDICATES 1 SET OF 4# 1/0 + 1#6 GROUND CONDUCTOR PER SET.
2. 500P = INDICATES 2 SET OF 3#250 KCMIL AND 1#1/0 PARTIAL NEUTRAL CONDUCTOR PER SET.
3. 3000NNG = INDICATES 5#350 KCMIL AND 1#4 GROUND CONDUCTOR.

LOAD ANALYSIS NORMAL POWER

Load Description		Building Load Connected			Demand		
Building	**Area (SF)**	**VA/SF**	**kVA**	**Amps**	**Factor**	**kVA**	**Amps**
Lighting(480/277V)	19,871	3.00	59.61	215.21	125%	74.52	269.01
General Power (208/120V)	19,871	3.00	59.61	165.59	Note 1	34.81	96.68
Kitchen(208/120V)	600	40.00	24.00	66.67	100%	24.00	66.67
Fire Alarm System(208/120V)			3.00	3.61	100%	3.00	3.61
Exterior Lighting(480/277V)			2.00	7.22	125%	2.50	9.03
IT Equipment(208/120V)			2.00	5.56	100%	2.00	5.56
Total Building			**150.23**	**180.78**		**140.82**	**169.46**
Mechanical Equipment	**Qty**	**kVA (ea)**	**HP**	**kVA.**	**Amps**	**Factor**	**kVA**	**Amps**
Chiller 1(480/277V)	1	121.10		121.10	152.00	100%	121.10	152.00
Chiller 2(480/277V)	1	121.10		121.10	152.00	175%	211.93	266.00
AHU (largest)(480/277V)	1	7.46	10.00	7.46	8.98	250%	18.65	22.44
AHU (Remainder)(480/277V)	4	2.61	3.50	10.44	12.57	100%	10.44	12.57
Fan Power Units (480/277V)	22	2.11	4.00	46.42	55.86	100%	46.42	55.86
Pumps(480/277V)	4	1.49	2.00	5.97	7.18	100%	5.97	7.18
VAV(208/120V)	17	0.10		1.63	1.96	100%	1.63	1.96
Exhaust fans (208/120V)	11	0.19	0.25	2.05	2.47	100%	2.05	2.47
Mech Total				**314.13**	**378.02**		**418.20**	**503.25**
Plumbing Equipment	**Qty**	**kVA (ea)**		**kVA.**	**Amps**	**Factor**	**kVA**	**Amps**
Plumbing Electronic Manifold (120V)	4	0		0	3.3	100%	0	3.3
Circulating pump(120V)	4	1		2	20.0	100%	2	20.0
Plumbing Total				**2.80**	**3.37**		**2.80**	**3.37**
Demand Total (480/277V, 3PH, 4W)				**467**	**562**		**562**	**676**
Spare + Future Capacity 25%				**117**	**141**		**140**	**169**
Total Demand								**845**

Note 1:First 10KVA taken at 100%, over 10KVA taken at 50%

LOAD ANALYSIS EMERGENCY POWER (GENERATOR)

Load Description			Demand		
Building	**kVA**	**Amps**	**Factor**	**kVA**	**Amps**
Emergency Sytems as defined by NEC 700	10.00	36.10	125%	12.50	45.13
Optional Standby as defined by NEC 702	10.00	12.03	100%	10.00	12.03
Total Building	**20.00**	**24.07**		**22.50**	**27.08**
Spare + Future Capacity 25%	**25**	**30**		**6**	**7**
Total Demand				**28**	**34**

AS PER KATY ISD STANDARD 26 3200 SECTION 4 A 150kW Generator has been selected.

SHORT CIRCUIT ANALYSIS

LOCATION	EQUIPMENT	EQUIPMENT AIC FULLY RATING INFINITE BUS METHOD (A)
SERVICE YARD	UTILITY	
	GENERATOR @ X"d 0.15pu	42000
	MSB	42000
	ATS-E	42000
	ATS-O	42000
PLATFORM	HM	42000
	HLA	42000
	LPA	22000
	LPB	22000
	EHA	42000
	OHA	42000
	OLA	10000
	ELA	10000

TVSS SHALL HAVE SAME AIC RATING AS SWITCHGEAR TO BE PROTECTED

1. A PERMANENTLY AFFIXED LABEL SHALL BE ATTACHED TO ALL NEW ELECTRICAL EQUIPMENT WITH THE AVAILABLE FAULT CURRENT AT THE TIME OF INSTALLATION AND CALCULATION. THE LABEL SHALL BE 2" X 3" IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THIS LABEL SHALL ALSO INCLUDE THE DATE OF THE CALCULATION.

CAUTION ___ SERIES COMBINATION SYSTEM
RATED ___ AMPERES. IDENTIFIED
REPLACEMENT COMPONENTS REQUIRED.

FEEDER VOLTAGE DROP

Load Name	Voltage	Poles	Load (A)	Voltage Drop	MaxLength (ft)
PANEL HM	480	3	79.0	2.49	200
PANEL HLA	480	3	73.0	2.30	200
PANEL LPA	208	3	101.0	0.22	20
PANEL LPB	208	3	66.0	0.14	20
PANEL EHA	480	3	10.0	1.00	200
PANEL OHA	480	3	20.0	1.99	200
PANEL OLA	208	3	46.0	0.71	10
PANEL ELA	208	3	3.0	0.05	10

VLK

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LTY ENGINEERS
TEXAS ENG. FIRM REG. NO. F-16543

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NEW OPPORTUNITY AWARENESS CENTER

STATE OF TEXAS
MIGUEL A. HANZE
151421
LICENSED PROFESSIONAL ENGINEER

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Designer
Drawn By	AR

PROJECT NO.
25-0067.00

SHEET TITLE
ONE LINE DIAGRAM

SHEET NO.
E3.00

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Switchboard: MSB

Location: | **Volts:** 480/277 Wye | **A.I.C. Rating:** 30000
Supply From: | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 800 A
Enclosure: 4X | **MCB Rating:** 800 A

Notes:
REFER TO ONE LINE DRAWING FOR ADDITIONAL INFORMATION.

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	True Current	Remarks
1	ATS-E	3	100 A	100 A	7018 VA	8 A	
2	ATS-O	3	100 A	100 A	14900 VA	18 A	
3	HMA	3	200 A	200 A	57152 VA	69 A	
4	HLA	3	400 A	400 A	91587 VA	110 A	
5	CHILLER 1	3	300 A	300 A	188724 VA	227 A	
6	CHILLER 2	3	300 A	300 A	188724 VA	227 A	
7	FUTURE SPARE CAPACITY	3	200 A	200 A	140000 VA	--	
				Total Conn. Load:	687975 VA		
				Total Amps:	828 A		

Load Classification	Connected Load	Estimated Demand Current	Demand Factor	Estimated Demand	Panel Totals
Other	50372 VA	61 A	100.00%	50372 VA	
Power	37608 VA	45 A	100.00%	37608 VA	Total Conn. Load: 687975 VA
Lighting	9760 VA	12 A	100.00%	9760 VA	Total Est. Demand: 827435 VA
Mechanical Equipment Chiller 1	188724 VA	227 A	100.00%	188724 VA	Total Conn. Current: 828 A
Receptacle	59760 VA	48 A	66.73%	39880 VA	Total Est. Demand Current: 995 A
Lighting - Dwelling Unit	345 VA	0 A	100.00%	345 VA	
Lighting - Exterior	1421 VA	2 A	125.00%	1776 VA	
Spare	140000 VA	168 A	100.00%	140000 VA	
Mechanical Equipment Chiller 2	188724 VA	397 A	175.00%	330267 VA	
Mechanical Equipment AHU largest	11640 VA	35 A	250.00%	29100 VA	

NOTES

Branch Panel: HLA

Location: | **Volts:** 480Y/277V | **A.I.C. Rating:** 42000
Supply From: MSB | **Phases:** 3 | **Mains Type:** MCB
Mounting: Recessed | **Wires:** 4 | **Mains Rating:** 400A
Enclosure: Type 1 | **Rating:** 400A

Notes:

CKT	Circuit Description	Comments	Trip	P	A		B		C		P	Trip	Comments	Circuit Description	CKT
1	EXTERIOR CANOPY		20 A	1	56 VA	1326 VA					1	20 A		LIGHTING SOUTH	2
3	EXTERIOR LIGHTING		20 A	1			2209 VA	2596 VA			1	20 A		LIGHTING CORRIDOR	4
5									0 VA	0 VA	1	20 A		Spare	6
7	LIGHTING WEST		20 A	1	326 VA	1277 VA					1	20 A		LIGHTING CORRIDOR WEST	8
9	LIGHTING NORTH		20 A	1			1692 VA	0 VA			1	20 A		Spare	10
11	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	12
13	EXTERIOR WALLPACK LIGHTING		20 A	1	626 VA	936 VA					1	20 A		LIGHTING EAST	14
15	XFMR TB FEEDING LB		250 A	3			14395 VA	0 VA			1	20 A		Spare	16
17	--	--	--	--					14279 VA	12571 VA	3	250 A		XFMR TA FEEDING LA	18
19	--	--	--	--	14295 VA	12586 VA					--	--	--	--	20
21	Spare		20 A	1			0 VA	12651 VA			--	--	--	--	22
23	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	24
25	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	26
27	Spare		20 A	1			0 VA	--			1	--		Space	28
29	Space		--	1					--	--	1	--		Space	30
31	Space		--	1	--	--					1	--		Space	32
33	Space		--	1			--	--			1	--		Space	34
35	Space		--	1					--	--	1	--		Space	36
37	Space		--	1	--	--					1	--		Space	38
39	Space		--	1			--	--			1	--		Space	40
41	Space		--	1					--	--	1	--		Space	42
			Total Load:		31283 VA		33463 VA		26850 VA						
			Total...		115 A		123 A		97 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting - Dwelling Unit	225 VA	100.00%	225 VA	
Lighting - Exterior	626 VA	125.00%	782 VA	Total Conn. Load: 91587 VA
Other	31734 VA	100.00%	31734 VA	Total Est. Demand: 76179 VA
Receptacle	51120 VA	69.56%	35560 VA	Total Conn.: 110 A
Power	1524 VA	100.00%	1524 VA	Total Est. Demand: 92 A
Lighting	6532 VA	100.00%	6532 VA	

Notes:

Branch Panel: HM

Location: | **Volts:** 480Y/277V | **A.I.C. Rating:** 42000
Supply From: MSB | **Phases:** 3 | **Mains Type:** MCB
Mounting: Recessed | **Wires:** 4 | **Mains Rating:** 200A
Enclosure: Type 1 | **Rating:** 200A

Notes:

CKT	Circuit Description	Comments	Trip	P	A		B		C		P	Trip	Comments	Circuit Description	CKT
1	VAV-2-4		20 A	1	100 VA	424 VA					1	20 A		FPB-1-1	2
3	FPB-1-3		20 A	1			424 VA	424 VA			1	20 A		FPB-1-5	4
5	FPB-1-7		20 A	1					424 VA	424 VA	1	20 A		FPB-2-1	6
7	FPB-1-2		20 A	1	424 VA	424 VA					1	20 A		FPB-3-1	8
9	FPB-1-6		20 A	1			424 VA	424 VA			1	20 A		FPB-3-7	10
11	FPB-3-8		20 A	1					424 VA	424 VA	1	20 A		FPB-2-9	12
13	FPB-2-3		20 A	1	424 VA	424 VA					1	20 A		FPB-2-16	14
15	FPB-2-4		20 A	1			424 VA	424 VA			1	20 A		FPB-2-17	16
17	FPB-2-2		20 A	1					424 VA	424 VA	1	20 A		FPB-2-15	18
19	FPB-2-13		20 A	1	424 VA	424 VA					1	20 A		FPB-2-10	20
21	FPB-2-14		20 A	1			424 VA	424 VA			1	20 A		FPB-2-11	22
23	FPB-2-12		20 A	1					424 VA	582 VA	3	20 A		HWP-2	24
25	CHP-2		15 A	3	942 VA	582 VA					--	--	--	--	26
27	--	--	--	--			942 VA	582 VA			--	--	--	--	28
29	--	--	--	--					942 VA	1330 VA	3	15 A		CHP-1	30
31	HWP-1		15 A	3	1330 VA	1330 VA					--	--	--	--	32
33	--	--	--	--			1330 VA	1330 VA			--	--	--	--	34
35	--	--	--	--					1330 VA	1552 VA	3	15 A		AHU-1	36
37	AHU-3		15 A	3	1552 VA	1552 VA					--	--	--	--	38
39	--	--	--	--			1552 VA	1552 VA			--	--	--	--	40
41	--	--	--	--					1552 VA	1691 VA	3	20 A		EUH-1	42
43	OAHU-1		20 A	3	3048 VA	1691 VA					--	--	--	--	44
45	--	--	--	--			3048 VA	1691 VA			--	--	--	--	46
47	--	--	--	--					3048 VA	3880 VA	3	30 A		AHU-2	48
49	Spare		20 A	1	0 VA	3880 VA					--	--	--	--	50
51	Spare		20 A	1			0 VA	3880 VA			--	--	--	--	52
53	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	54
55	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	56
57	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	58
59	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	60
61	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	62
63	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	64
65	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	66
67	Space		--	1	--	--					1	--		Space	68
69	Space		--	1			--	--			1	--		Space	70
71	Space		--	1					--	--	1	--		Space	72
73	Space		--	1	--	--					1	--		Space	74
75	Space		--	1			--	--			1	--		Space	76
77	Space		--	1					--	--	1	--		Space	78
79	Space		--	1	--	--					1	--		Space	80
81	Space		--	1			--	--			1	--		Space	82
83	Space		--	1					--	--	1	--		Space	84
			Total Load:		18976 VA		19300 VA		18876 VA						
			Total...		69 A		70 A		68 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	9428 VA	100.00%	9428 VA	
Power	36084 VA	100.00%	36084 VA	Total Conn. Load: 57152 VA
Mechanical Equipment AHU largest	11640 VA	250.00%	29100 VA	Total Est. Demand: 74612 VA
				Total Conn.: 69 A
				Total Est. Demand: 90 A

Notes:

Branch Panel: LPA

Location: | **Volts:** 208Y/120V | **A.I.C. Rating:** 22000
Supply From: TA | **Phases:** 3 | **Mains Type:** MCB
Mounting: Recessed | **Wires:** 4 | **Mains Rating:** 250A
Enclosure: Type 1 | **Rating:** 250A

Notes:

CKT	Circuit Description	Comments	Trip	P	A		B		C		P	Trip	Comments	Circuit Description	CKT
1	VAV-1-1		20 A	1	100 VA	360 VA					1	20 A		BREAK ROOM A108 RECEPTACLES	2
3	CONFERENCE ROOM FLOOR RECEPT		20 A	1			180 VA	595 VA			1	20 A		EF-7	4
5	DRINKING FOUNTAIN		20 A	1					180 VA	360 VA	1	20 A		CORRIDOR RECEPTACLES	6
7	CONFERENCE RM A102 RECEPTS		20 A	1	540 VA	1080 VA					1	20 A		LARGE FLEX A107 RECEPTACLES	8
9	Other		20 A	1			600 VA	720 VA			1	20 A		FLEX 202 RECEPTACLES	10
11	MECHANICAL PLATFORM RECEPTS		20 A	1					720 VA	900 VA	1	20 A		BREAK ROOM A108 RECEPTACLES	12
13	VAV-2-1		20 A	1	100 VA	180 VA					1	20 A		REFRIGERATOR	14
15	VAV-2-2		20 A	1			100 VA	180 VA			1	20 A		REFRIGERATOR	16
17	VAV-2-3		20 A	1					100 VA	180 VA	1	20 A		REFRIGERATOR	18
19	DRINKING FOUNTAIN		20 A	1	180 VA	360 VA					1	20 A		EXTERIOR RECEPTACLES	20
21	ICE MACHINE		20 A	1			180 VA	360 VA			1	20 A		RESTROOM RECEPTACLES	22
23	MICROWAVE		20 A	1					180 VA	360 VA	1	20 A		RR 210 AND 212 RECEPTS	24
25	CORRIDOR RECEPTACLES		20 A	1	360 VA	424 VA					1	20 A		FPB-3-5	26
27	EXTERIOR RECEPTACLES		20 A	1			360 VA	424 VA			1	20 A		FPB-3-6	28
29	EXTERIOR RECEPTACLES		20 A	1					360 VA	424 VA	1	20 A		VAV-3-9	30
31	FPB-3-2		20 A	1	424 VA	424 VA					1	20 A		FPB-2-7	32
33	FPB-3-3		20 A	1			424 VA	424 VA			1	20 A		FPB-2-8	34
35	FPB-3-4		20 A	1					424 VA	424 VA	1	20 A		FPB-3-10	36
37	FPB-1-4		20 A	1	424 VA	540 VA					1	20 A		SECONDARY 208 RECEPTACLES	38
39	FPB-2-5		20 A	1			424 VA	540 VA			1	20 A		SECONDARY 211 RECEPTACLES	40
41	FPB-2-6		20 A	1					424 VA	540 VA	1	20 A		SECONDARY 214 RECEPTACLES	42
43	RESOURCE 206 RECEPTACLES		20 A	1	540 VA	540 VA					1	20 A		I.S.S. 102 RECEPTACLES	44
45	RR AND STORAGE 100D RECEPTS		20 A	1			540 VA	540 VA			1	20 A		METAL DETECTOR	46
47	SECONDARY 207 RECEPTACLES		20 A	1					540 VA	540 VA	1	20 A		RESOURCE 204 RECEPTACLES	48
49	I.S.S. 102 RECEPTACLES		20 A	1	540 VA	540 VA					1	20 A		CONFERENCE RM A102 RECEPTS	50
51	I.S.S. 102 RECEPTACLES		20 A	1			540 VA	540 VA			1	20 A		CORRIDOR RECEPTACLES	52
53	I.S.S. 102 RECEPTACLES		20 A	1					540 VA	540 VA	1	20 A		I.S.S. 102 RECEPTACLES	54
55	EXHAUST FAN		20 A	1	595 VA	720 VA					1	20 A		RISE 205 RECEPTACLES	56
57	EXHAUST FAN		20 A	1			595 VA	720 VA			1	20 A		RISE 205 RECEPTACLES	58
59	EXHAUST FAN		20 A	1					595 VA	720 VA	1	20 A		WRK RM A109 RECEPTS	60
61	SECONDARY 208 RECEPTACLES		20 A	1	900 VA	900 VA					1	20 A		RESOURCE 206 RECEPTICALS	62
63	SECONDARY 211 RECEPTACLES		20 A	1			900 VA	900 VA			1	20 A		RISE 205 RECEPTACLES	64
65	SECONDARY 214 RECEPTACLES		20 A	1					900 VA	900 VA	1	20 A		SECONDARY 207 RECEPTACLES	66
67	FLEX A106 RECEPTACLES		20 A	1	900 VA	900 VA					1	20 A		FLEX A103 RECEPTACLES	68
69	RECEPTION A100A RECEPTS		20 A	1			900 VA	900 VA			1	20 A		FLEX A104 RECEPTACLES	70
71	RESOURCE 204 RECEPTACLES		20 A	1					900 VA	900 VA	1	20 A		FLEX A105 RECEPTACLES	72
73	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	74
75	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	76
77	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	78
79	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	80
81	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	82
83	RELAY PANEL		20 A	1					0 VA	0 VA	1	20 A		BAS PANEL	84
			Total Load:		12571 VA		12586 VA		12651 VA						
			Total...		105 A		105 A		105 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	8468 VA	100.00%	8468 VA	
Receptacle	29340 VA	84.08%	24670 VA	Total Conn. Load: 37808 VA
				Total Est. Demand: 33138 VA
				Total Conn.: 105 A
				Total Est. Demand: 92 A

Notes:

Branch Panel: LPB

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22000
Supply From: TB | **Phases:** 3 | **Mains Type:** MCB
Mounting: Recessed | **Wires:** 4 | **Mains Rating:** 250A
Enclosure: Type 1 | **Rating:** 250A

Notes:

CKT	Circuit Description	Comments	Trip	P	A		B		C		P	Trip	Comments	Circuit Description	CKT
1	FAA		20 A	1	0 VA	360 VA					1	20 A		CORRIDOR RECEPTACLES	2
3	BR-1		20 A	1			1524 VA	1620 VA			1	20 A		WINDOW SHADES	4
5	ELEMENTARY 306 RECEPTICALS		20 A	1					540 VA	720 VA	1	20 A		FLEX 302 RECEPTICALS	6
7	EXHAUST FAN - RR		20 A	1	595 VA	595 VA					1	20 A		EXHAUST FAN - RR 310	8
9	MICROWAVE		20 A	1			180 VA	180 VA			2	30 A		DRYER - CUST STORAGE 104	10
11	FACP PANEL		50 A	1	--	--			4160 VA	0 VA	--	--	--	--	12
13	WINDOW SHADES		20 A	1	1890 VA	2080 VA					2	20 A		ACU-1B	14
15	FPD		20 A	1			180 VA	2080 VA			--	--	--	--	16
17	WASHER - CUST STORAGE 104		20 A	1					180 VA	180 VA	1	20 A		FPD	18
19	MECHANICAL PLATFORM RECEPTS		20 A	1	180 VA	180 VA					1	20 A		FPD	20
21	FPD		20 A	1			180 VA	360 VA			1	20 A		ELEM 406 AND 407 GFI RECEPTS	22
23	FPD		20 A	1					180 VA	360 VA	1	20 A		RR 310 AND 311 GFI RECEPTS	24
25	DRINKING FOUNTAIN		20 A	1	180 VA	360 VA					1	20 A		CORRIDOR RECEPTACLES	26
27	SECONDARY 313 RECEPTICALS		20 A	1			540 VA	540 VA			1	20 A		SECONDARY 305 RECEPTICALS	28
29	STORAGE 100C AND RR RECEPTS		20 A	1					540 VA	540 VA	1	20 A		SECONDARY 308 RECEPTICALS	30
31	SECONDARY 309 RECEPTICALS		20 A	1	540 VA	540 VA					1	20 A		RESOURCE 403 RECEPTICALS	32
33	RESOURCE 304 RECEPTICALS		20 A	1			540 VA	540 VA			1	20 A		ELEMENTARY 406 RECEPTICALS	34
35	RESOURCE 402 RECEPTICALS		20 A	1					540 VA	540 VA	1	20 A		EXTERIOR RECEPTACLES	36
37	FOOD SERVICE 103 RECEPTICALS		20 A	1	540 VA	540 VA					1	20 A		ELEMENTARY 404 RECEPTICALS	38
39	SF-1		20 A	1			595 VA	900 VA			1	20 A		SECONDARY 309 RECEPTICALS	40
41	SF-2		20 A	1					595 VA	900 VA	1	20 A		SECONDARY 313 RECEPTICALS	42
43	EXHAUST FAN - RR 311		20 A	1	595 VA	900 VA					1	20 A		SECONDARY 308 RECEPTICALS	44
45	RESOURCE 403 RECEPTICALS		20 A	1			900 VA	900 VA			1	20 A		MECHANICAL PLATFORM RECEPTS	46
47	SECONDARY 305 RECEPTICALS		20 A	1					900 VA	900 VA	1	20 A		RESOURCE 304 RECEPTICALS	48
49	RESOURCE 402 RECEPTICALS		20 A	1	900 VA	900 VA					1	20 A		FLEX 401 RECEPTICALS	50
51	ELEMENTARY 404 RECEPTICALS		20 A	1			900 VA	1620 VA			1	20 A		WINDOW SHADES	52
53	ELEMENTARY 406 RECEPTICALS		20 A	1					900 VA	1620 VA	1	20 A		WINDOW SHADES	54
55	ELEMENTARY 306 RECEPTICALS		20 A	1	900 VA	1620 VA					1	20 A		WINDOW SHADES	56
57	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	58
59	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	60
			Total Load:		14395 VA		14279 VA		14295 VA						
			Total...		120 A		119 A		119 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	19665 VA	100.00%	19665 VA	
Receptacle	21780 VA	95.91%	20890 VA	Total Conn. Load: 42969 VA
Power	1524 VA	100.00%	1524 VA	Total Est. Demand: 42079 VA
				Total Conn.: 119 A
				Total Est. Demand: 117 A

Notes:

Branch Panel: OHA

Location: | **Volts:** 480/277 Wye | **A.I.C. Rating:** 42000
Supply From: ATS-O | **Phases:** 3 | **Mains Type:** MCB
Mounting: Recessed | **Wires:** 4 | **Mains Rating:** 100A
Enclosure: Type 1 | **Rating:** 100A

Notes:

CKT	Circuit Description	Comments	Trip	P	A		B		C		P	Trip	Comments	Circuit Description	CKT
1	XFMR OTA		100 A	3	4970 VA	--					1	--		Space	2
3	--	--	--	--			4950 VA	--			1	--		Space	4
5	--	--	--	--					4980 VA	--	1	--		Space	6
7	Spare		20 A	1	0 VA	--					1	--		Space	8
9	Spare		20 A	1			0 VA	--			1	--		Space	10
11	Spare		20 A	1					0 VA	--	1	--		Space	12
13	Space		--	1	--	--					1	--		Space	14
15	Space		--	1			--	--			1	--		Space	16
17	Space		--	1					--	--	1	--		Space	18
			Total Load:		4970 VA		4950 VA		4980 VA						
			Total...		18 A		18 A		18 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	6260 VA	100.00%	6260 VA	
Receptacle	8640 VA	100.00%	8640 VA	Total Conn. Load: 14900 VA
				Total Est. Demand: 14900 VA
				Total Conn.: 18 A
				Total Est. Demand: 18 A

Notes:

Branch Panel: EHA

Location: | **Volts:** 480Y/277V | **A.I.C. Rating:** 42000
Supply From: ATS-E | **Phases:** 3 | **Mains Type:** MLO
Mounting: Recessed | **Wires:** 4 | **Mains Rating:** 100
Enclosure: Type 3R | **Rating:** 100

Notes:

CKT	Circuit Description	Comments	Trip	P	A		B		C		P	Trip	Comments	Circuit Description	CKT
1	EMERGENCY LIGHTING CORRIDOR		20 A	1	90 VA	2098 VA					1	20 A		EMERGENCY LIGHTING CORRIDOR	2
3	PLATFORM LIGHTING		20 A	1			612 VA	795 VA			1	20 A		EMERGENCY LIGHTING EXTERIOR	4
5	EMERGENCY LIGHTING NORTH SIDE		20 A	1					1116 VA	1398 VA	1	20 A		EMERGENCY LIGHTING SOUTH SIDE	6
7	Spare		20 A	1	0 VA	180 VA					3	50 A		XFMR ETA	8
9	EMERGENCY LIGHTING CORRIDOR		20 A	1			900 VA	0 VA			--	--	--	--	10
11	Spare		20 A	1					0 VA	0 VA	--	--	--	--	12
13	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	14
15	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	16
17	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	18
19	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	20
21	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	22
23	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	24
25	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare	26
27	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	28
29	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	30
31	Space		--	1	--	--					1	--		Space	32
33	Space		--	1			--	--			1	--		Space	34
35	Space		--	1					--	--	1	--		Space	36
37	Space		--	1	--	--					1	--		Space	38
39	Space		--	1			--	--			1	--		Space	40
41	Space		--	1					--	--	1	--		Space	42
			Total Load:		2273 VA		2283 VA		2514 VA						
			Total...		8 A		8 A		9 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting - Dwelling Unit	120 VA	100.00%	120 VA	
Lighting - Exterior	795 VA	125.00%	994 VA	Total Conn. Load: 7018 VA
Other	2950 VA	100.00%	2950 VA	Total Est. Demand: 7215 VA
Lighting	3240 VA	100.00%	3240 VA	Total Conn.: 8 A
				Total Est. Demand: 9 A

Notes:

Branch Panel: ELA

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10000
Supply From: ETA | **Phases:** 3 | **Mains Type:** MCB
Mounting: Recessed | **Wires:** 4 | **Mains Rating:** 50
Enclosure: Type 1 | **Rating:** 50

Notes:

CKT	Circuit Description	Comments	Trip	P	A		B		C		P	Trip	Comments	Circuit Description	CKT
1	FACP PANEL		50 A	1	180 VA	0 VA					1	20 A		Spare	2
3	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare	4
5	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare	6
7	Spare		20 A	1	0 VA	--					1	--		Space	8
9	Space		--	1			--	--			1	--		Space	10
11	Space		--	1					--	--	1	--		Space	12
13	Space		--	1	--	--					1	--		Space	14
15	Space		--	1			--	--			1	--		Space	16
17	Space		--	1					--	--	1	--		Space	18
			Total Load:		180 VA		0 VA		0 VA						
			Total...		2 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	180 VA	100.00%	180 VA	
				Total Conn. Load: 180 VA
				Total Est. Demand: 180 VA
				Total Conn.: 0 A
				Total Est. Demand: 0 A

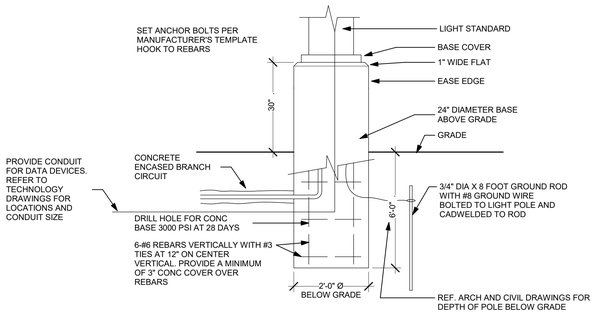
Notes:

Branch Panel: OLA

Location: | **Volts:** 208Y/120V | **A.I.C. Rating:** 10000
Supply From: OTA | **Phases:** 3 | **Mains Type:** MCB
Mounting: Recessed | **Wires:** 4 | **Mains Rating:** 100A
Enclosure: Type 1 | **Rating:** 100A

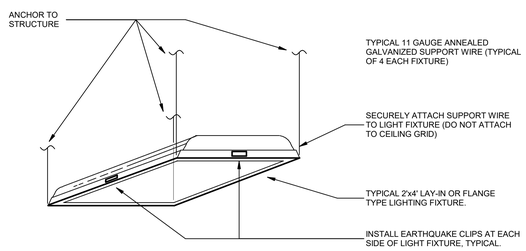
Notes:

CKT	Circuit Description	Comments	Trip	P	A		B		C		P	Trip	Comments	Circuit Description	CKT
1	BARREL EVAPORATOR HEATER CH1		20 A	1	50 VA	720 VA					1	20 A		CLINIC 101 RECEPTACLES	2
3	CHILLER 1 CONTROL CKT		20 A	1			50 VA	360 VA			1	20 A		CORRIDOR RECEPTACLES	4
5	CLINIC 101 RECEPTICALS		20 A	1					360 VA	720 VA	1	20 A		POLICE OFFICE 301 - RECEPTICALS	6
7	GEN ALTERNATOR		20 A	1	1200 VA	180 VA					1	20 A		REACH-IN MILK COOLER	8
9	BARREL EVAPORATOR HEATER CH2		20 A	1			500 VA	500 VA			1



1 LIGHT POLE BASE DETAIL

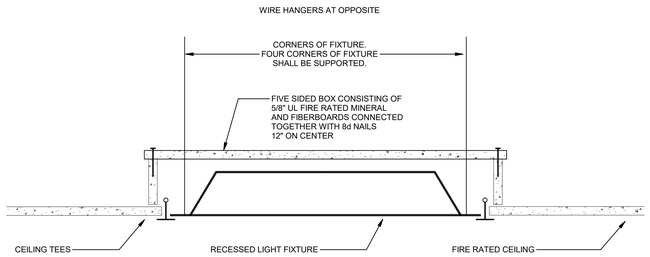
NO SCALE



NOTE:
ALL RECESSED LIGHT FIXTURES SHALL HAVE CAM LATCHES. THE SCHOOL DISTRICT PROHIBITS ROOSTER HEAD AND SPRING LOADED LATCHES.

2 FIXTURE SUPPORT DETAIL

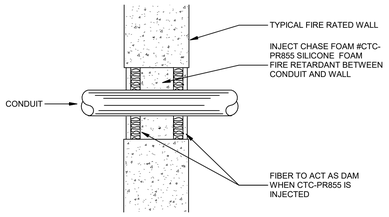
NO SCALE



PROVIDE FIREPROOFING IN ACCORDANCE WITH THE UL FIRE RESISTANCE RATING FOR THE CEILING TYPE SPECIFIED BY THE ARCHITECT.
COORDINATE WITH ARCHITECTURAL DRAWINGS FOR AREAS WITH RATED CEILING.

3 LIGHT FIXTURE FIREFROOFING DETAIL

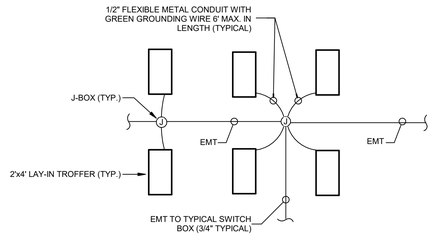
NO SCALE



NOTE:
FIRE RATING OF COMPLETED FIREPROOFED ASSEMBLY SHALL BE EQUAL OR EXCEED RATING OF WALL.

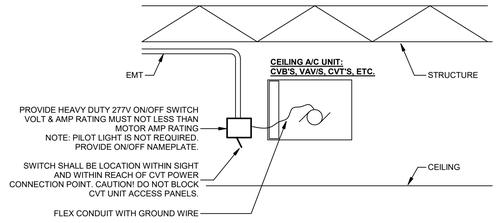
4 FIREWALL PENETRATION DETAIL

NO SCALE



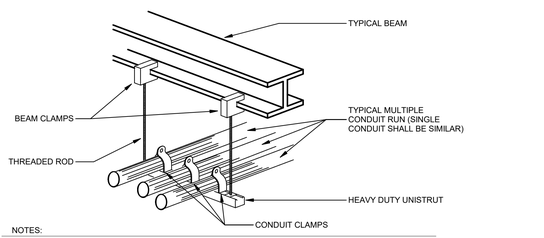
5 CONDUIT/J-BOX DETAIL

NO SCALE



6 CEILING A/C UNIT WIRING DETAIL

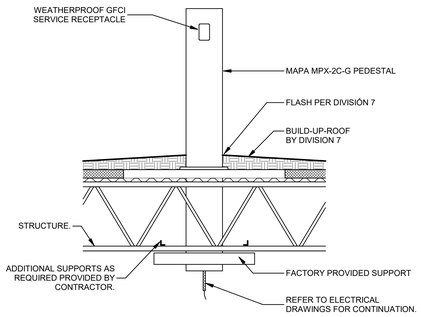
NO SCALE



NOTE:
1. PROVIDE AND INSTALL GROUNDING BUSHING FOR DISCONNECT SWITCHES, PANELS AND TRANSFORMERS.

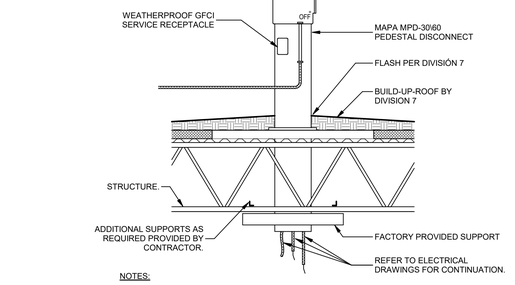
7 GROUNDING BUSHING WIRING DETAIL

NO SCALE



8 PEDESTAL MOUNT ROOF RECEPTACLE

NO SCALE



NOTES:
WATER – TIGHT FLEX CONDUIT SHALL NOT RESTRICT FAN FROM ROTATING ON HINGED SUB-BASE FOR SERVICE TO DAMPERS AND DUCT CONNECTION. REFER TO DIVISION 26

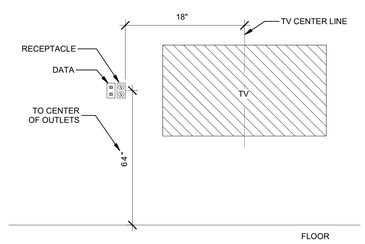
9 PEDESTAL MOUNT DISCONNECT

NO SCALE

NOTES:
1. ALL SUPPORT DEVICES SHALL BE UL LISTED AND NEC APPROVED.
2. REFER TO NEC FOR CONDUIT SUPPORT SPACING.

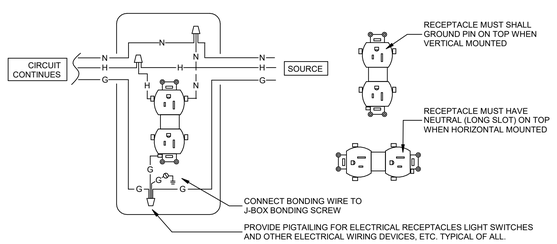
10 TRAPEZE MOUNTED CONDUIT DETAIL

NO SCALE



11 TV ELECTRICAL DETAIL

NO SCALE



12 PIGTAIL WIRING DETAIL

NO SCALE

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Katy ISD
Katy, TX

STATE OF TEXAS
MIGUEL A. HANZE
151421
LICENSED PROFESSIONAL ENGINEER

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Designer
Drawn By	AR

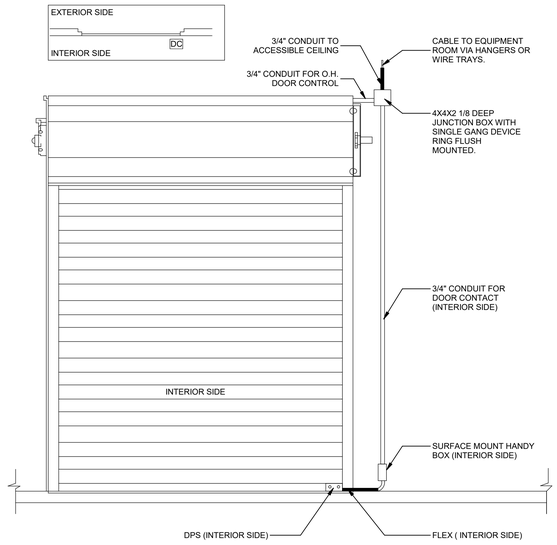
PROJECT NO.
25-0067.00

SHEET TITLE
ELECTRICAL DETAILS

SHEET NO.
E5.00

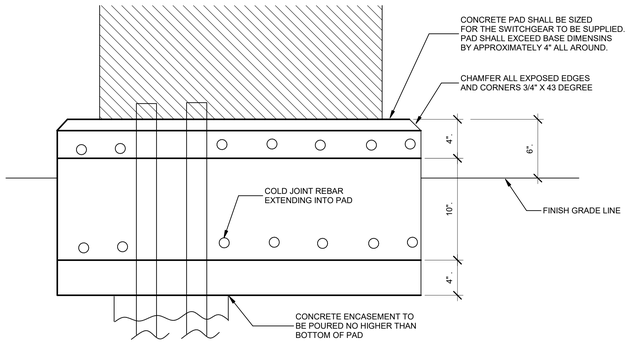
NEW OPPORTUNITY AWARENESS CENTER

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1 EXTERIOR OVERHEAD DOOR DETAIL

NO SCALE

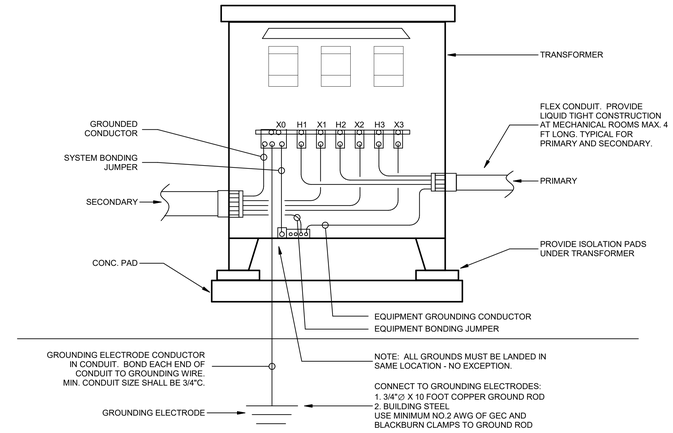


NOTES:

1. CONCRETE SHALL HAVE MINIMUM COMPRESSION IN 28 DAYS, 3000 PSI.
2. REINFORCING STEEL SHALL BE INTERMEDIATE GRADE DEFORMED BARS IN ACCORDANCE WITH A.S.T.M. SPECIFICATION A-615, GRADE 60, OR BETTER.
3. ALL SPLICES IN REINFORCING SHALL LAP A LENGTH EQUAL TO 24 BAR DIAMETERS.
4. ALL DIMENSIONS ON REINFORCING ARE TO THE CENTER OF BARS.
5. CONCRETE SHALL BE THOROUGHLY WORKED AROUND REINFORCING, AND EMBEDDD FIXTURES AND INTO ALL CORNERS OF FORMS.
6. GROUT SHALL BE A MIXTURE OF 1 PART CEMENT OT 2 PARTS SAND WITH ENOUGH WATER TO PRODUCE A WORKTABLE MIXTURE.
7. CONCRETE IS TO BE POURED ONLY WHEN THE ATMOSPHERIC TEMPERATURE IS A MINIMUM 40° F AND RISING.
8. STRIP BACK ALL VEGETATION AND APPROXIMATELY 12" OF TOP SOIL. REMOVE ALL LOOSE CLODS AND STONES. BACKFILL AND THOROUGHLY COMPACT ALL CONDUIT TRENCHES AND HOLES BEFORE CONCRETE IS PLACED.
9. REINFORCING SHALL HAVE A MINIMUM OF 2.5" CONCRETE COVER.
10. SLOPE PAD 1" FONT TO BACK.

2 CONCRETE EQUIPMENT PAD ELEVATION

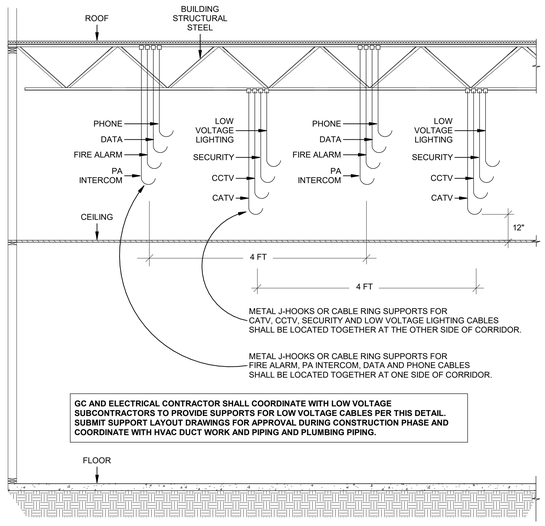
NO SCALE



1. WHEN TRANSFORMER IS ON THE FIRST FLOOR, LOCATE GROUND ROD ADJACENT TO TRANSFORMER.
2. WHEN TRANSFORMER IS ON THE SECOND FLOOR, LOCATE GROUND ROD TO NEAREST FIRST FLOOR MECHANICAL ROOM.

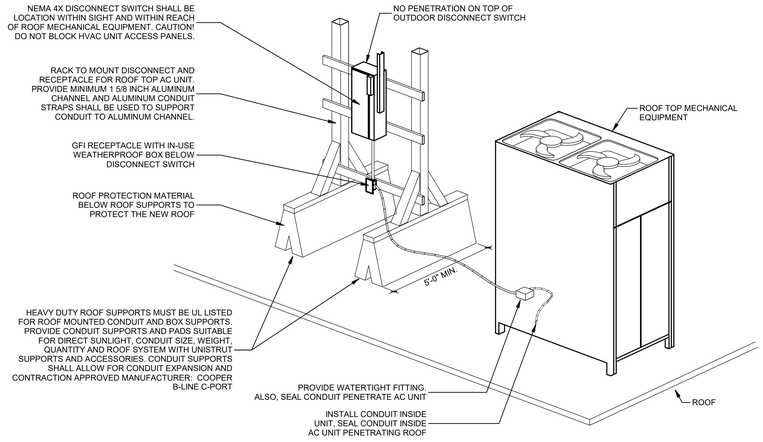
3 TRANSFORMER CONNECTION AND GROUNDING DETAIL

NO SCALE



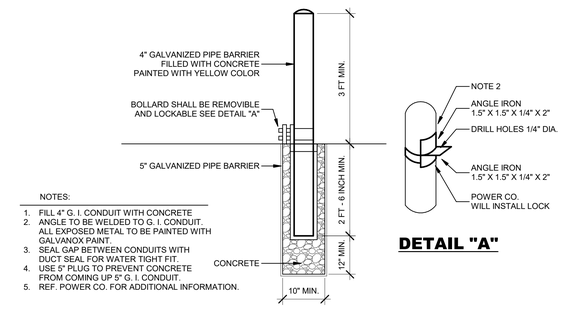
4 LOW VOLTAGE CABLE SUPPORTING DETAIL

NO SCALE



5 ROOF TOP AC UNIT DISCONNECT & RECEPTACLE DETAIL

NO SCALE



NOTES:

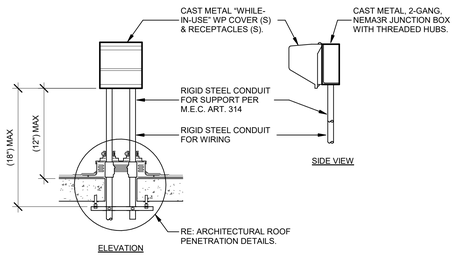
1. FILL 4" G. I. CONDUIT WITH CONCRETE.
2. ANGLE TO BE WELDED TO G. I. CONDUIT. ALL EXPOSED METAL TO BE PAINTED WITH GALVANOX PAINT.
3. SEAL GAP BETWEEN CONDUITS WITH DUCT SEAL FOR WATER TIGHT FIT.
4. USE 5" PLUG TO PREVENT CONCRETE FROM COMING UP 5" G. I. CONDUIT.
5. REF. POWER CO. FOR ADDITIONAL INFORMATION.

DETAIL "A"

INSTALL BOLLARD ON APPROXIMATELY 3'-6" CENTERS PER POWER CO. STANDARD. REF. POWER CO. FOR ADDITIONAL INFORMATION. THIS DETAIL APPLIES TO PAD MOUNTED TRANSFORMER, EMERGENCY GENERATOR AND OTHER OUTDOOR ELECTRICAL EQUIPMENT.

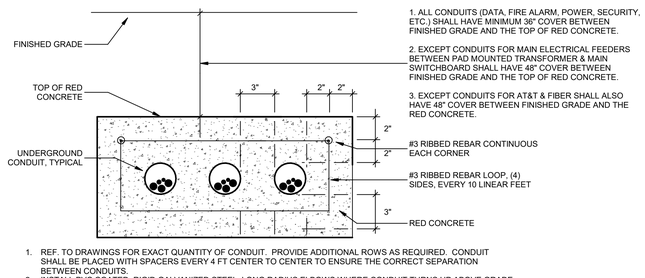
6 REMOVABLE PROTECTIVE BOLLARD DETAIL

NO SCALE



7 RECEPTACLE ROOF MOUNTING DETAIL

NO SCALE



1. ALL CONDUITS (DATA, FIRE ALARM, POWER, SECURITY, ETC.) SHALL HAVE MINIMUM 36" COVER BETWEEN FINISHED GRADE AND THE TOP OF RED CONCRETE.
2. EXCEPT CONDUITS FOR MAIN ELECTRICAL FEEDERS BETWEEN PAD MOUNTED TRANSFORMER & MAIN SWITCHBOARD SHALL HAVE 48" COVER BETWEEN FINISHED GRADE AND THE TOP OF RED CONCRETE.
3. EXCEPT CONDUITS FOR AT&T & FIBER SHALL ALSO HAVE 48" COVER BETWEEN FINISHED GRADE AND THE RED CONCRETE.

1. REF. TO DRAWINGS FOR EXACT QUANTITY OF CONDUIT. PROVIDE ADDITIONAL ROWS AS REQUIRED. CONDUIT SHALL BE PLACED WITH SPACERS EVERY 4 FT CENTER TO CENTER TO ENSURE THE CORRECT SEPARATION BETWEEN CONDUITS.
2. INSTALL PVC COATED, RIGID GALVANIZED STEEL, LONG RADIUS ELBOWS WHERE CONDUIT TURNS UP ABOVE GRADE. PVC COATED, RIGID GALVANIZED STEEL ELBOW AND CONDUIT MUST BE EXTENDED TO 18" ABOVE GRADE.
3. ENCASE UNDERGROUND CONDUIT NOT UNDER BUILDING SLAB IN 3" RED CONCRETE ENVELOPE.
4. SEE SPECIFICATION FOR ADDITIONAL REQUIREMENT SUCH LIKE WARNING TAPS, MAGNETIC MARKING TAPE, ETC.

8 DUCT BANK DETAIL-SECTION

NO SCALE

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NEW OPPORTUNITY AWARENESS CENTER

STATE OF TEXAS
MIGUEL A. HANZE
151421
REGISTERED
PROFESSIONAL ENGINEER

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Designer
Drawn By	AR

PROJECT NO.

25-0067.00

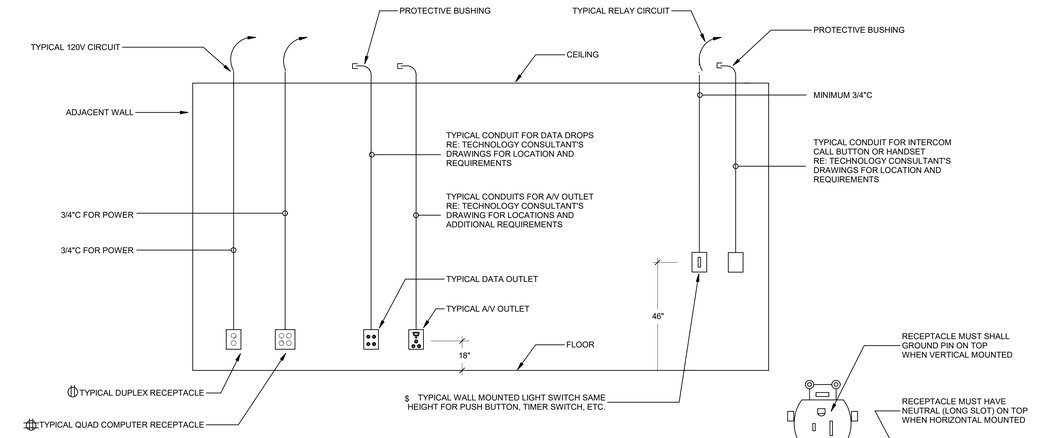
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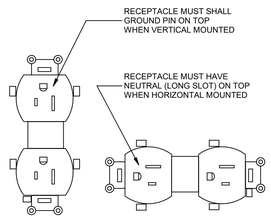
ELECTRICAL DETAILS

SHEET NO.

E5.01

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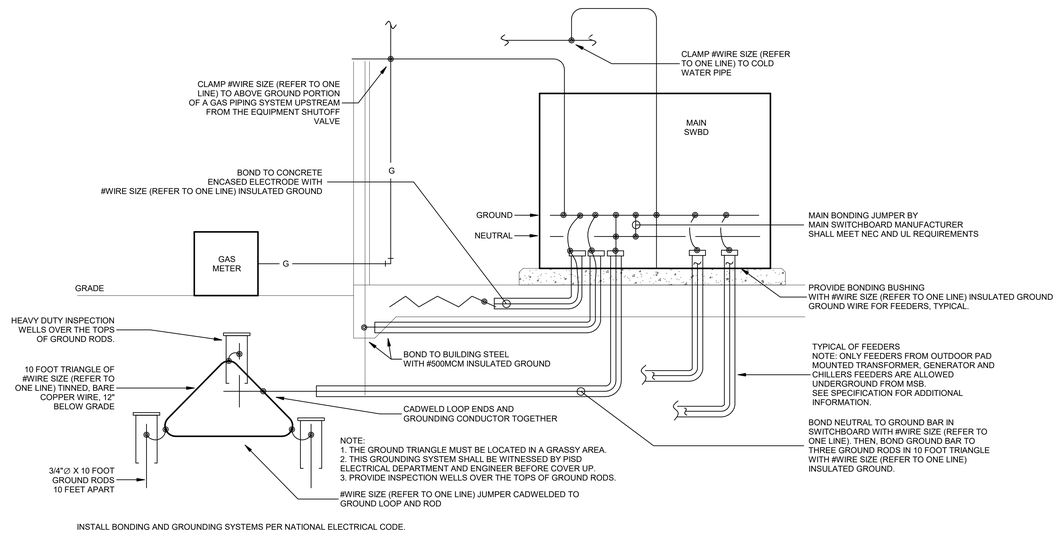




1. ALL RECEPTACLES SHALL HAVE THE GROUND PIN UP IF MOUNTED VERTICALLY.
   ALL RECEPTACLES SHALL HAVE NEUTRAL (LONG SLOT) IS UP IF HORIZONTALLY MOUNTED.
2. PA INTERCOM, LOCAL SOUND, CCTV, SECURITY, DATA, AUDIO/VIDEO, AND OTHER TECHNOLOGY CABLING AND DEVICES ARE SHOWN ON TECHNOLOGY CONSULTANT'S DRAWINGS.
   ELECTRICAL CONTRACTOR SHALL PROVIDE EMPTY CABLE TRAYS, SLEEVES, CONDUITS, J-BOXES AND BUSHINGS FOR THESE SYSTEMS. SEE TECHNOLOGY CONSULTANT'S DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENT.
3. FIRE ALRAM DEVICE ARE SHOWN ON FIRE ALARM FLOOR PLANS. EACH FIRE ALARM DEVICES SHALL HAVE MINIMUM 3/4"C.
   FIRE ALARM SUBCONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR CONDUIT AND J-BOX LAYOUT/REQUIREMENT.
   ALL CABLE TRAYS, SLEEVES, CONDUITS, J-BOXES AND BUSHINGS FOR FIRE ALARM SYSTEM SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.

1 CONDUIT SIZE FOR ELECTRICAL DEVICES

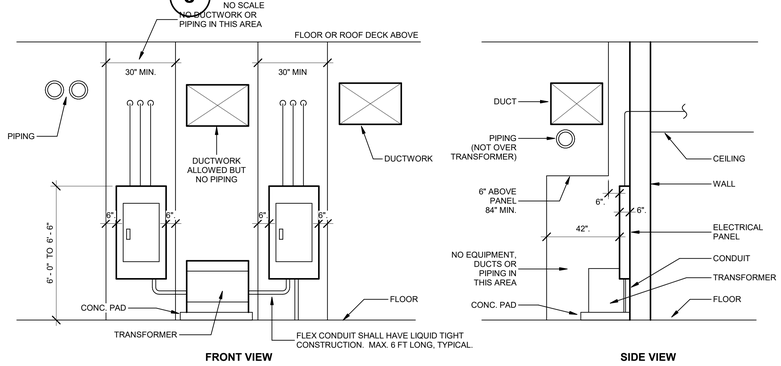
NO SCALE



INSTALL BONDING AND GROUNDING SYSTEMS PER NATIONAL ELECTRICAL CODE.

3 ELECTRICAL SERVICE GROUNDING DETAIL

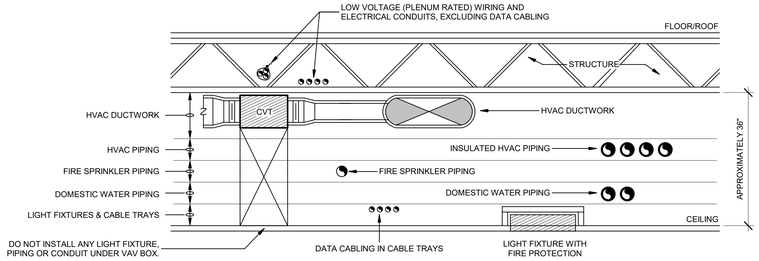
NO SCALE



COORDINATE WITH OTHER TRADES TO ENSURE NO PIPING AND DUCTWORK ABOVE ELECTRICAL EQUIPMENT AS SHOWN.

5 ELECTRICAL - MECHANICAL COORDINATION DETAIL

NO SCALE



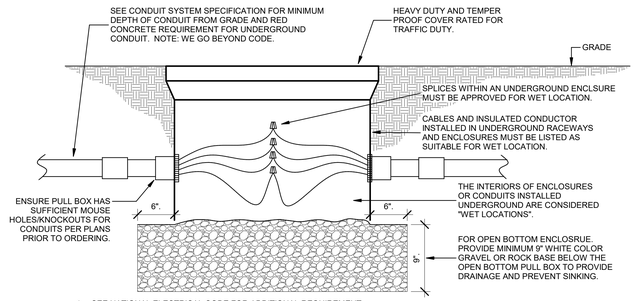
PLENUM PRIORITY NOTES

ELECTRICAL CONDUIT	INSTALLED WITHIN OPEN WEBS OF JOIST FRAMING. IF FRAMING IS USED FOR SUPPORT OF CONDUIT, A SADDLE SHALL BE REQUIRED FOR ISOLATION AT EACH SUPPORT POINT.
LOW VOLTAGE WIRING (EXCEPT DATA CABLING)	INSTALLED WITHIN OPEN WEBS OF JOIST FRAMING AND RUN PARALLEL OR PERPENDICULAR TO BUILDING WALLS. ALL INDIVIDUAL WIRES SHALL BE BUNDLED TOGETHER WITH PLASTIC TIE STRAPS AT 6 FOOT MAXIMUM INTERVALS AND EACH WIRE SHALL BE IDENTIFICATION TAGGED AT 25 FOOT MAXIMUM INTERVALS.
HVAC DUCTWORK	INSTALLED AS SNUG TO BOTTOM OF STRUCTURE AS POSSIBLE, ALLOWING ONLY ENOUGH SPACE FOR INSULATION WRAP. OFFSET HOT AND COLD MEDIUM PRESSURE DUCTS FOR TAKE-OFFS FOR DOUBLE DUCT VAV BOXES.
HVAC PIPING	INSTALLED IN PLANE DIRECTLY BELOW HVAC DUCTWORK. ALL VALVES AND INSTRUMENTS SHALL BE ACCESSIBLE AND EASILY OPERATED FROM BELOW.
FIRE SPRINKLER PIPING	INSTALLED IN PLANE DIRECTLY BELOW HVAC PIPING.
DOMESTIC WATER PIPING	INSTALLED IN PLANE DIRECTLY ABOVE LIGHT FIXTURES. ALL VALVES AND INSTRUMENTS SHALL BE ACCESSIBLE AND EASILY OPERATED FROM BELOW. BALL VALVES INSTALLED WITH STEM HORIZONTAL SHALL BE USED IN LIEU OF WHEEL HANDLE VALVES OR OTHER TYPES EXCEPT IN SITUATIONS WHERE BALL VALVES ARE NOT APPROPRIATE.
LIGHT FIXTURES	TAKE PRIORITY IN SPECIAL LAYOUT. ALL OTHER SYSTEMS (DOUBLE DUCT UNITS, DUCTWORK, PIPING, CONDUITS, ETC.) SHALL BE ROUTED IN PLENUM SPACE TO AVOID PASSING DIRECTLY (LOW) OVER LIGHTING FIXTURES PREVENTING THEIR INSTALLATION, SERVICING AND/OR REMOVAL.
GRAVITY FED PLUMBING	THIS INCLUDES PLUMBING WASTE/VENT AND ROOF DRAIN SYSTEMS. THESE SYSTEMS TAKE PRIORITY OVER ALL OTHER SYSTEMS BUT MUST BE INSTALLED TAKING OTHER SYSTEMS INTO CONSIDERATION. IN GENERAL, ROOF DRAIN PIPING SHALL START AS HIGH AS POSSIBLE. WASTE/VENT PIPING SHALL BE INSTALLED IN HVAC PIPING SPACE (IF AVAILABLE) IN AREAS WHERE CROSSING DUCTWORK. DO NOT INSTALL WASTE/VENT OR ROOF DRAIN PIPING UNDER DOUBLE DUCT VAV BOXES IF AVOIDABLE.

NOTE:
PIPING, CONDUIT AND DUCTWORK SUPPORTS ARE NOT SHOWN ON THIS DETAIL.
SUPPORT ALL ENTITIES AS REQUIRED BY THE WRITTEN SPECIFICATIONS.

2 PLENUM PRIORITY NOTES

NO SCALE



1. SEE NATIONAL ELECTRICAL CODE FOR ADDITIONAL REQUIREMENT.
2. COORDINATE PULL BOX LOCATION WITH OWNER AND UTILITY COMPANY PRIOR TO INSTALLATION.
3. THE UNDERGROUND PULL BOX IS FOR "TECHNOLOGY" CABLING APPLICATION ONLY.
   DO NOT INSTALL IN-GROUND BOXES FOR ELECTRICAL WIRING UNLESS APPROVED BY PISD ELECTRICAL MAINTENANCE IN WRITING.

UNDERGROUND ENCLOSURE SPECIFICATION

UNDERGROUND ENCLOSURE SHALL BE HUBBELL QUAZITE SERIES UNDERGROUND ENCLOSURE, UL LISTED AND MANUFACTURED BY LENOIR CITY, INC.
EQUAL UNDERGROUND ENCLOSURE MANUFACTURED BY CDR WITH ETL VERIFICATION SHALL BE ALSO ACCEPTABLE.
ENCLOSURES, BOXES AND COVERS ARE REQUIRED TO CONFORM TO ALL TEST PROVISIONS OF THE MOST CURRENT ANSI/SCTE 77 "SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY" FOR ANSI TIER 22 APPLICATIONS FOR BOTH COVERS AND BOXES. ALL COVERS ARE REQUIRED TO HAVE THE TIER LEVEL RATING EMBOSSED ON THE SURFACE WITH 2 BOLTS. IN NO ASSEMBLY CAN THE COVER DESIGN LOAD EXCEED THE DESIGN LOAD OF THE BOX. ALL COMPONENTS IN AN ASSEMBLY (BOX & COVER) ARE MANUFACTURED USING MATCHED SURFACE TOOLING, INDEPENDENT THIRD PARTY VERIFICATION OR TEST REPORTS STAMPED BY A REGISTERED PROFESSIONAL ENGINEER CERTIFYING THAT ALL TEST PROVISIONS OF THIS SPECIFICATION HAVE BEEN MET ARE REQUIRED WITH EACH SUBMITTAL. ELECTRICAL CONTRACTOR SHALL PROVIDE PROPER SIZE OF UNDERGROUND ENCLOSURE TO COORDINATE WITH THE CONDUITS AND FEEDERS PER NATIONAL ELECTRICAL CODE.

4 UNDERGROUND PULL BOX DETAIL

NO SCALE

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NEW OPPORTUNITY AWARENESS CENTER

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Director	Charles Johnson
Proj. Arch.	Lynn Rabatsky
Designer	Designer
Drawn By	AR

PROJECT NO.
25-0067.00

SHEET TITLE
ELECTRICAL DETAILS

SHEET NO.
E5.02

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TECHNOLOGY SYMBOLS & LEGEND

VOICE SYMBOLS

	SINGLE VOICE OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED.
X	VOICE OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED. X = NUMBER OF CABLE TERMINATIONS PER LOCATION.
	SINGLE VOICE OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED.
X	VOICE OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED, X = NUMBER OF CABLE TERMINATIONS PER LOCATION AS INDICATED.
	POWER/COMMUNICATIONS POLE WITH A SINGLE VOICE OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
X	POWER/COMMUNICATIONS POLE WITH X = NUMBER OF VOICE OUTLETS, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
	SINGLE VOICE OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE-THRU AS SPECIFIED.
X	VOICE OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE -THRU AS SPECIFIED WITH X = NUMBER OF VOICE TERMINATIONS PER LOCATION.
W	SINGLE VOICE OUTLET FOR WALL-MOUNTED PHONE, CABLE TYPE AS SPECIFIED, MOUNTED +52-INCHES A.F.F. UNLESS OTHERWISE NOTED.

DATA SYMBOLS

	SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED.
X	DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED. X = NUMBER OF CABLE TERMINATIONS PER LOCATION.
	SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED.
X	DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED, X = NUMBER OF CABLE TERMINATIONS PER LOCATION AS INDICATED.
	POWER/COMMUNICATIONS POLE WITH A SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
X	POWER/COMMUNICATIONS POLE WITH X = NUMBER OF DATA OUTLETS, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
	SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE-THRU AS SPECIFIED.
X	DATA OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE -THRU AS SPECIFIED WITH X = NUMBER OF CABLE TERMINATIONS PER LOCATION.
W	SINGLE DATA OUTLET FOR WALL-MOUNTED IP PHONE, CABLE TYPE AS SPECIFIED, MOUNTED +52-INCHES A.F.F. UNLESS OTHERWISE NOTED.
	SINGLE ABOVE CEILING DATA OUTLET, CABLE TYPE AS SPECIFIED.
X	ABOVE CEILING DATA OUTLET, CABLE TYPE AS SPECIFIED WITH X = NUMBER OF CABLE TERMINATIONS PER LOCATION.
X WAPW	DATA CABLE FOR WALL MOUNTED WIRELESS ACCESS POINT, CABLE TYPE AS SPECIFIED WITH X= NUMBER OF CABLE TERMINATIONS PER LOCATION WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING. PLACE A ORANGE ADHESIVE DOT AND LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW.
X WAPC	DATA CABLE FOR AN ABOVE CEILING MOUNTED WIRELESS ACCESS POINT, CABLE TYPE AS SPECIFIED WITH X= NUMBER OF CABLE TERMINATIONS PER LOCATION WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING. PLACE A ORANGE ADHESIVE DOT AND LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW.
X WAPE	DATA CABLE FOR AN EXTERIOR WALL MOUNTED WIRELESS ACCESS POINT, CABLE TYPE AS SPECIFIED WITH X= NUMBER OF CABLE TERMINATIONS PER LOCATION WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING. PLACE A ORANGE ADHESIVE DOT AND LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW.
X CAMW	DATA CABLE FOR INTERIOR WALL MOUNTED VIDEO SURVEILLANCE CAMERA, CABLE TYPE AS SPECIFIED WITH X= NUMBER OF CABLE TERMINATIONS PER LOCATION WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING. PLACE A GREEN ADHESIVE DOT AND LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW, REFER TO SECURITY DRAWINGS PRIOR TO INSTALLATION.
X CAMC	DATA CABLE FOR INTERIOR ABOVE CEILING MOUNTED VIDEO SURVEILLANCE CAMERA, CABLE TYPE AS SPECIFIED WITH X= NUMBER OF CABLE TERMINATIONS PER LOCATION WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING. PLACE A GREEN ADHESIVE DOT AND LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW, REFER TO SECURITY DRAWINGS PRIOR TO INSTALLATION.
X CAME	DATA CABLE FOR AN EXTERIOR CEILING MOUNTED VIDEO SURVEILLANCE CAMERA, CABLE TYPE AS SPECIFIED WITH X= NUMBER OF CABLE TERMINATIONS PER LOCATION WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING. PLACE A GREEN ADHESIVE DOT AND LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW, REFER TO SECURITY DRAWINGS PRIOR TO INSTALLATION.
X CAME	DATA CABLE FOR AN EXTERIOR WALL MOUNTED VIDEO SURVEILLANCE CAMERA, CABLE TYPE AS SPECIFIED WITH X= NUMBER OF CABLE TERMINATIONS PER LOCATION WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING. PLACE A GREEN ADHESIVE DOT AND LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW, REFER TO SECURITY DRAWINGS PRIOR TO INSTALLATION.

ROUGH-IN & MISC. SYMBOLS

R	ROUGH-IN LOCATION, INFRASTRUCTURE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED.
R	ROUGH-IN LOCATION, INFRASTRUCTURE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED.
R	POWER POLE WITH ROUGH-IN LOCATION, INFRASTRUCTURE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
R	ROUGH-IN LOCATION, TERMINATED IN FLOOR BOX/POKE-THRU AS SPECIFIED.
WAP	WIRELESS ACCESS POINT. EQUIPMENT AS SPECIFIED.

GENERAL SYMBOLS

# / SHEET — DRAWING TITLE / SCALE: SCALE	DRAWING TITLE CALLOUT, # = DETAIL NUMBER.
# / SHEET	DETAIL CALLOUT, # = DETAIL NUMBER.
# / SHEET	SECTION CALLOUT, # = DETAIL NUMBER.
SHEET / #	ELEVATION CALLOUT, # = DETAIL NUMBER.
#	KEYED NOTE, # = KEYED NOTE NUMBER.
#	REVISION TRIANGLE, # = REVISION NUMBER (PER SHEET).
TR (IDF XXX)	INDICATES TELECOMMUNICATIONS REGION

VOICE/DATA SYMBOLS

	SINGLE VOICE & SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED.
X Y	VOICE & DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED. X = NUMBER OF VOICE TERMINATIONS , Y = NUMBER OF DATA TERMINATIONS PER LOCATION.
	SINGLE VOICE & SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED.
X Y	VOICE & DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED, X = NUMBER OF VOICE OUTLETS AND Y = NUMBER OF DATA OUTLETS PER LOCATION AS INDICATED.
	POWER/COMMUNICATIONS POLE WITH A SINGLE VOICE OUTLET AND SINGLE DATA OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
X Y	POWER/COMMUNICATIONS POLE WITH X = NUMBER OF VOICE TERMINATIONS, Y = NUMBER OF DATA TERMINATIONS, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
	SINGLE VOICE OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE-THRU AS SPECIFIED.
X Y	VOICE OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE -THRU AS SPECIFIED WITH X = NUMBER OF VOICE TERMINATIONS, Y = NUMBER OF DATA TERMINATIONS PER LOCATION.

FIBER OPTIC SYMBOLS

	SINGLE FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED.
X	FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +18-INCHES A.F.F. UNLESS OTHERWISE NOTED. X = NUMBER OF CABLE TERMINATIONS PER LOCATION.
	SINGLE FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED.
X	FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED +6-INCHES ABOVE COUNTER OR BACKSPLASH UNLESS OTHERWISE NOTED, X = NUMBER OF CABLE TERMINATIONS PER LOCATION AS INDICATED.
	POWER/COMMUNICATIONS POLE WITH A SINGLE FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
X	POWER/COMMUNICATIONS POLE WITH X = NUMBER OF FIBER OPTIC OUTLETS, CABLE TYPE AS SPECIFIED, MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED.
	SINGLE FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE-THRU AS SPECIFIED.
X	FIBER OPTIC OUTLET, CABLE TYPE AS SPECIFIED, TERMINATED IN FLOOR BOX/POKE -THRU AS SPECIFIED WITH X = NUMBER OF CABLE TERMINATIONS PER LOCATION.

CABLE PLANT & RISER DIAGRAM

	MAINTENANCE HOLE, SIZE & TYPE AS SPECIFIED.
	PULLBOX, SIZE AND TYPE AS SPECIFIED.
UGC	DIRECT BURIED COMMUNICATIONS, CABLE TYPE AS SPECIFIED.
AER	AERIAL COMMUNICATIONS, CABLE TYPE AS SPECIFIED.
	CONDUIT, SIZE AND TYPE AS SPECIFIED.

AUDIOVISUAL SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO CENTERLINE	BACK BOX	CONDUIT SIZE
P#	PROJECTOR, # = TYPE AS SPECIFIED	PER DRAWINGS	PER DRAWINGS	N/A
FPD#	FLAT PANEL DISPAY, # = DISPLAY SIZE	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
R	WALL-MOUNTED ROUGH-IN LOCATION	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
R	FLOOR-MOUNTED ROUGH-IN LOCATION	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS

GENERAL SYMBOLS

1 / TA-302	ELEVATION CALLOUT, # = DETAIL NUMBER.

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
AER	AERIAL
DEMARC	DEMARCATION POINT
EMT	ELECTRIC METALLIC TUBE
F.O.C.	FIBER OPTIC CABLE
GIP	GALVANIZED IRON PIPE
HE	PA/INTERCOM HEAD-END
IMC	INTERMEDIATE METAL CONDUIT
ISP	INSIDE CABLE PLANT
IDF	INTERMEDIATE DISTRIBUTION FRAME
MDF	MAIN DISTRIBUTION FRAME
MH	MAINTENANCE HOLE
MM	MULTIMODE
OSP	OUTSIDE CABLE PLANT
PB	PULLBOX
PR	PAIR
PVC	POLYVINYL CHLORIDE
RSC	RIGID STEEL CONDUIT
SM	SINGLE MODE
SP	SERVICE PROVIDER
STP	SHIELDED TWISTED PAIR
TB	TERMINAL BLOCK
TR	TELECOMMUNICATION REGION
UGC	UNDERGROUND COMMUNICATION
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR

NOTES

1. CONTRACTOR SHALL REVIEW DRAWINGS AND SPECIFICATIONS THAT MAKE UP THE CONTRACT DOCUMENTS AND COMPLETE ALL WORK INCLUDED THEREIN.
2. SCALE OF TECHNOLOGY DRAWINGS IS PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER CABLE LENGTHS, SIZE OF PATHWAYS, DIMENSIONS, ETC.
3. TECHNOLOGY DRAWINGS SHALL BE USED TO COMPLEMENT THE WRITTEN SPECIFICATIONS.
4. ANY DISCREPANCY OR CONFLICT WITHIN OR BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGN CONSULTANT. DISCREPANCIES OR CONFLICTS NOT BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGN CONSULTANT AND SUBSEQUENTLY CLARIFIED DURING THE BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN BID OR PROPOSED IN THE MORE COSTLY OR DIFFICULT MANNER, AND THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE ARCHITECT'S/DESIGN CONSULTANT'S INTERPRETATION.

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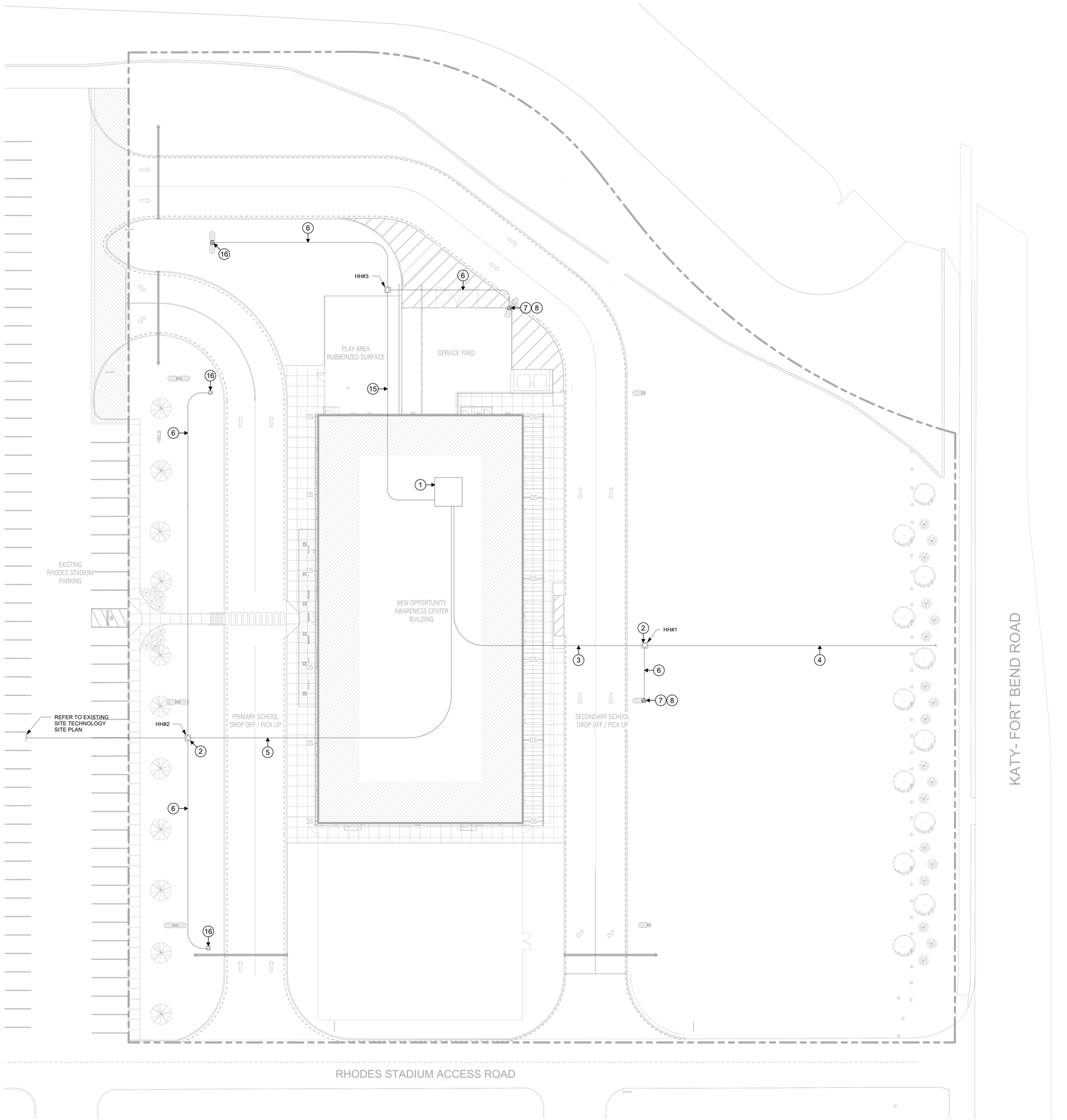
SHEET TITLE

TECHNOLOGY SYMBOLS & LEGEND

SHEET NO.

T0.00

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N

TRUE NORTH

1 / T1.11 TECHNOLOGY OVERALL SITE PLAN
1" = 20'-0"

TECHNOLOGY SITE PLAN GENERAL NOTES

1. ALL CONDUIT PATHWAYS, ROUGH-INS, CONDUIT SLEEVES, ETC. INDICATED ON THE TECHNOLOGY DRAWINGS ARE TO BE PROVIDED AND INSTALLED BY DIVISION 26.
2. ALL POWER INDICATED ON THE TECHNOLOGY DRAWINGS IS TO BE PROVIDED AND INSTALLED BY DIVISION 26.
3. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH FIRE RATED WALLS/STRUCTURES FOR TECHNOLOGY CABLING BACK TO THE ORIGINAL RATING.
4. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH NON-RATED WALLS/STRUCTURES FOR TECHNOLOGY CABLING FOR SOUND TO REDUCE NOISE TRAVELING THROUGH PENETRATIONS.
5. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH WALLS/STRUCTURES FOR TECHNOLOGY CABLING TO PREVENT WATER INFILTRATION INTO THE SPACE.
6. CONDUITS SHALL MAINTAIN A MINIMUM OF 12-INCHES OF WELL TAMPED EARTH OR 3-INCHES OF CONCRETE SEPARATION BETWEEN ANY FOREIGN CONDUITS AND/OR PIPES THROUGHOUT THE ENTIRE CONDUIT PATHWAY.
7. CONDUIT SEGMENTS SHALL BE NO MORE THAN 600-FEET IN LENGTH WITH NO MORE THAN THE EQUIVALENT OF (2) 90 DEGREE BENDS BETWEEN PULLING POINTS.
8. CONDUITS SHALL MAINTAIN A BEND RADIUS OF 6 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS 2-INCHES OR SMALLER AND 10 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS GREATER THAN 2-INCHES.
9. CONTRACTOR SHALL PROVIDE DETECTABLE WARNING TAPE 12-INCHES BELOW GRADE ON TOP OF ALL CONDUITS THROUGHOUT THE ENTIRE CONDUIT TRENCH.
10. CONTRACTOR SHALL COORDINATE ALL CONDUIT PATHWAYS WITH THE ARCHITECT AND LANDSCAPE PLAN PRIOR TO BEGINNING ANY TRENCHING.
11. ALL CONDUITS SHALL HAVE A PULL STRING INSTALLED FOR PULLING OF CABLE.
12. ALL SPARE CONDUITS OR CONDUITS FILLED WITH LESS THAN THE MAXIMUM ALLOWED FILL RATIO SHALL HAVE A PULL STRING INSTALLED AND LEFT FOR FUTURE PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.

TECHNOLOGY SITE PLAN KEYED NOTES

1. APPROXIMATE LOCATION OF NEW MDF ROOM M3.
2. (36)-INCH X (36)-INCH X (36)-INCH HAND HOLE WITH LOCKABLE COVER RATED FOR ENVIRONMENT STAMPED WITH TELECOMMUNICATIONS. COVER OF HANDHOLE SHALL BE FLUSH WITH FINAL FINISHED GRADE. (BY DIV. 26)
3. (2) 4-INCH SCHEDULE 80 PVC CONDUITS BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM THE NEW HANDHOLE TO THE BUILDING POINT OF ENTRY SERVING THE NEW MDF LOCATION. CONDUITS SHALL TRANSITION TO VERTICAL RISER PATHWAYS AS REQUIRED TO SERVE THE MDF LOCATED ON THE PLATFORM LEVEL. CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS AT EACH END OF THE CONDUIT. COORDINATE EXACT POINT OF ENTRY, SLEEVES, AND VERTICAL PATHWAY ROUTING WITH ARCHITECTURAL AND STRUCTURAL CONDITIONS. (BY DIV. 26).
4. (2) 4-INCH SCHEDULE 80 PVC CONDUIT BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM NEW HANDHOLE TO SERVER PROVIDER POLE(S). THE CONDUIT RISERS SHALL BE TERMINATED 10 FEET ABOVE FINISHED GRADE AT THE POLE(S). CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. CONTRACTOR SHALL PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS ON EACH END OF THE CONDUIT. THESE CONDUITS SHALL BE RESERVED FOR SERVICE PROVIDER USE ONLY. (BY DIV. 26).
5. (2) 4-INCH SCHEDULE 80 PVC CONDUITS BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM THE NEW HANDHOLE TO THE BUILDING POINT OF ENTRY SERVING THE NEW MDF LOCATION. CONDUITS SHALL TRANSITION TO VERTICAL RISER PATHWAYS AS REQUIRED TO SERVE THE MDF LOCATED ON THE PLATFORM LEVEL. CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS AT EACH END OF THE CONDUIT. COORDINATE EXACT POINT OF ENTRY, SLEEVES, AND VERTICAL PATHWAY ROUTING WITH ARCHITECTURAL AND STRUCTURAL CONDITIONS. (BY DIV. 26).
6. (1) 1 1/4-INCH SCHEDULE 80 PVC CONDUIT BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM LOCKABLE COMMUNICATIONS HAND HOLE TO LIGHT POLE FOR POLE MOUNTED SECURITY CAMERA. CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. CONTRACTOR SHALL PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS ON EACH END OF THE CONDUIT. (BY DIV. 26).
7. APPROXIMATE LOCATION OF POLE MOUNTED VIDEO SURVEILLANCE CAMERA.
8. PROVIDE POWERED FIBER OPTIC CABLE TO SUPPORT SECURITY POLE-MOUNTED CAMERA. TERMINATE AT MEDIA CONVERTER INSTALLED WITHIN NEMA-RATED WEATHERPROOF ENCLOSURE. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS (BY DIV. 27).
9. APPROXIMATE LOCATION WHERE EXISTING UNDERGROUND COMMUNICATIONS PATHWAYS TERMINATE ADJACENT TO NEW BUILDING; PROVIDE NEW INTERCEPT HANDHOLE/PULLBOX AT THIS LOCATION TO FACILITATE TRANSITION BETWEEN NEW PATHWAYS FROM NEW BUILDING AND EXISTING PATHWAYS ROUTING BACK TO EXISTING BUILDING IDF; ANY REQUIRED CONDUIT INTERCEPTION, MODIFICATION, OR ADJUSTMENT SHALL BE BY DIV. 26, WHILE DIV. 27 SHALL PROVIDE AND ROUTE TELECOMMUNICATIONS CABLING THROUGH NEW AND EXISTING PATHWAYS; CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND EXISTING CONDITIONS PRIOR TO INSTALLATION.
10. APPROXIMATE LOCATION OF EXISTING UNDERGROUND COMMUNICATIONS TRENCH ROUTING THROUGH PARKING LOT SERVING PATHWAYS BETWEEN NEW AND EXISTING BUILDINGS; CONTRACTOR SHALL UTILIZE THIS EXISTING TRENCH FOR TELECOMMUNICATIONS PATHWAY EXTENSION AND TIE-IN TO ROUTE BACK TO EXISTING BUILDING IDF; CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING, DEPTH, AND CONDITION OF EXISTING CONDUITS WITHIN TRENCH PRIOR TO INSTALLATION AND COORDINATE ALL WORK TO MAINTAIN CONTINUITY OF EXISTING SYSTEMS. (BY DIV. 27)
11. APPROXIMATE LOCATION OF EXISTING WALL-MOUNTED COMMUNICATIONS PULLBOX FOR TELECOMMUNICATIONS TIE-IN SERVING PATHWAYS TO RHODES STADIUM FIELD HOUSE IDF AND ASSOCIATED SITE INFRASTRUCTURE, INCLUDING UNDERGROUND ROUTING TO PARKING LOT COMMUNICATIONS PULLBOXES SUPPORTING EXTERIOR DEVICES AND TRANSITION TO ABOVE-CEILING PATHWAYS; CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND EXISTING PATHWAY CONDITIONS PRIOR TO INSTALLATION AND COORDINATE ALL NEW WORK WITH EXISTING SYSTEMS. (BY DIV. 27)
12. EXISTING TELECOMMUNICATIONS CABLING AND PATHWAYS ROUTED THROUGH MECHANICAL ROOM F112A SERVING AS A PASS-THROUGH TO THE RHODES STADIUM FIELD HOUSE IDF; CONTRACTOR SHALL UTILIZE THIS SPACE FOR CONTINUATION OF CABLING ONLY AND SHALL NOT INSTALL NEW TERMINATION EQUIPMENT WITHIN MECHANICAL ROOM UNLESS OTHERWISE NOTED; FIELD VERIFY EXACT ROUTING, PATHWAY CONDITIONS, AND COORDINATE WITH EXISTING CONDUITS, SLEEVES, AND ABOVE-CEILING PATHWAYS PRIOR TO INSTALLATION. (BY DIV. 27)
13. EXISTING IDF EQUIPMENT LOCATED WITHIN LAUNDRY ROOM F113A; CONTRACTOR SHALL EXTEND NEW FIBER OPTIC BACKBONE CABLING FROM NEW BUILDING TO THIS IDF AND TERMINATE WITHIN NEW OR EXISTING FIBER ENCLOSURE (LIU) FOR TELECOMMUNICATIONS TIE-IN; CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, AVAILABLE RACK SPACE, AND PATHWAY ROUTING PRIOR TO INSTALLATION AND COORDINATE ALL WORK WITH EXISTING SYSTEMS. (BY DIV. 27)
14. (2) 4-INCH SCHEDULE 80 PVC CONDUIT BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM NEW HANDHOLE TO NEW HANDHOLE. CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. CONTRACTOR SHALL PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS ON EACH END OF THE CONDUIT. THESE CONDUITS SHALL BE RESERVED FOR SERVICE PROVIDER USE ONLY. (BY DIV. 26).
15. (2) 2-INCH SCHEDULE 80 PVC CONDUITS BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM THE NEW HANDHOLE TO THE BUILDING POINT OF ENTRY SERVING THE NEW MDF LOCATION. CONDUITS SHALL TRANSITION TO VERTICAL RISER PATHWAYS AS REQUIRED TO SERVE THE MDF LOCATED ON THE PLATFORM LEVEL. CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS AT EACH END OF THE CONDUIT. COORDINATE EXACT POINT OF ENTRY, SLEEVES, AND VERTICAL PATHWAY ROUTING WITH ARCHITECTURAL AND STRUCTURAL CONDITIONS. (BY DIV. 26).
16. PROVIDE POWERED FIBER OPTIC CABLE TO POLE LOCATION FOR FUTURE USE. TERMINATE AT MEDIA CONVERTER INSTALLED WITHIN NEMA-RATED WEATHERPROOF ENCLOSURE. (BY DIV. 27)

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05/26/2026

ISSUED: May 26, 2026

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Director
Proj. Arch.
Designer CCG
Drawn By CCG

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SHEET TITLE
TECHNOLOGY OVERALL SITE PLAN

SHEET NO.
T1.11

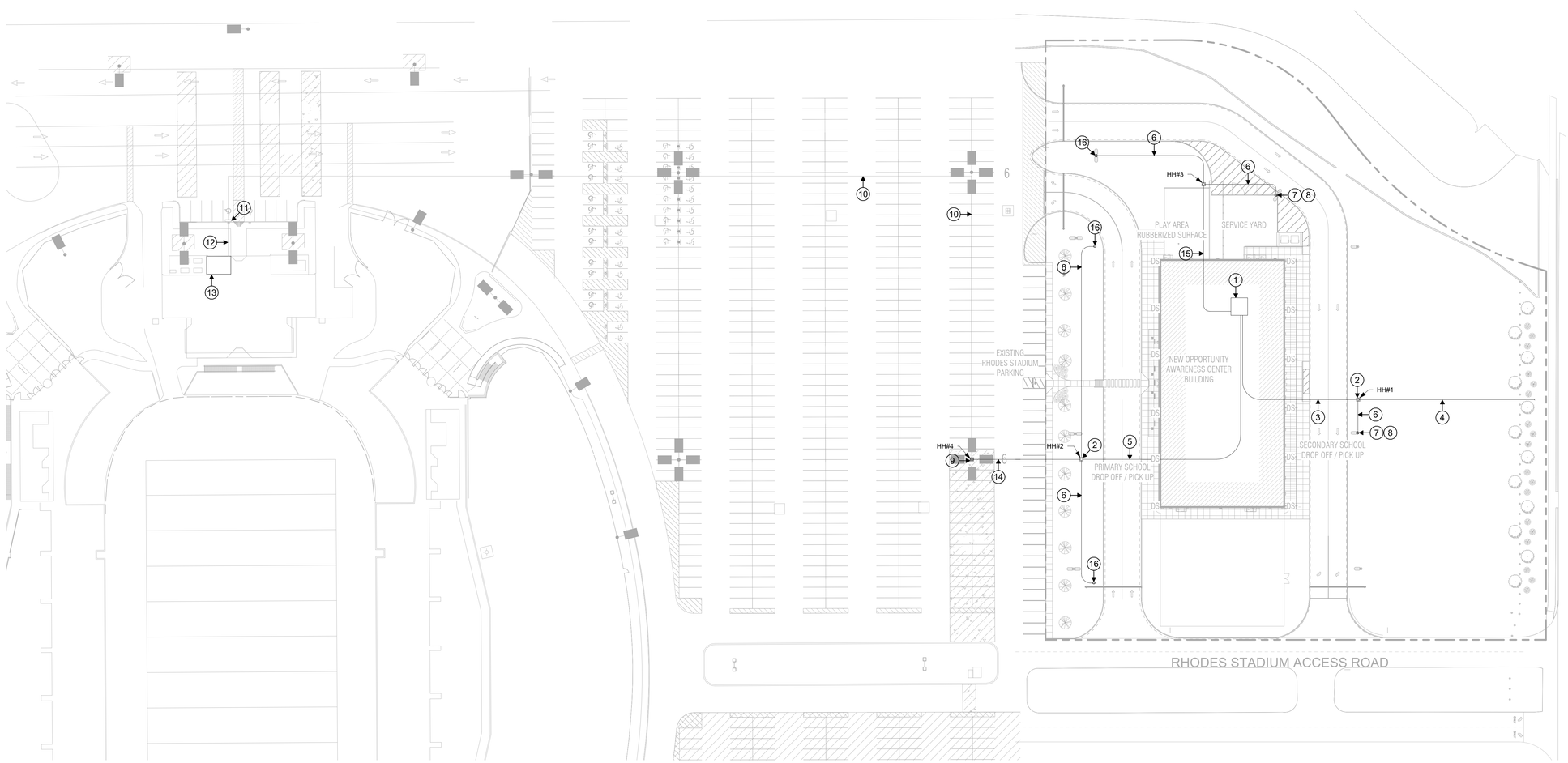
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TECHNOLOGY SITE PLAN KEYED NOTES

1. APPROXIMATE LOCATION OF NEW MDF ROOM M3.
2. (36)-INCH X (36)-INCH X (36)-INCH HAND HOLE WITH LOCKABLE COVER RATED FOR ENVIRONMENT STAMPED WITH TELECOMMUNICATIONS. COVER OF HANDHOLE SHALL BE FLUSH WITH FINAL FINISHED GRADE. (BY DIV. 26)
3. (2) 4-INCH SCHEDULE 80 PVC CONDUITS BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM THE NEW HANDHOLE TO THE BUILDING POINT OF ENTRY SERVING THE NEW MDF LOCATION. CONDUITS SHALL TRANSITION TO VERTICAL RISER PATHWAYS AS REQUIRED TO SERVE THE MDF LOCATED ON THE PLATFORM LEVEL. CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS AT EACH END OF THE CONDUIT. COORDINATE EXACT POINT OF ENTRY, SLEEVES, AND VERTICAL PATHWAY ROUTING WITH ARCHITECTURAL AND STRUCTURAL CONDITIONS. (BY DIV. 26).
4. (2) 4-INCH SCHEDULE 80 PVC CONDUIT BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM NEW HANDHOLE TO SERVER PROVIDER POLE(S). THE CONDUIT RISERS SHALL BE TERMINATED 10 FEET ABOVE FINISHED GRADE AT THE POLE(S). CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. CONTRACTOR SHALL PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS ON EACH END OF THE CONDUIT. THESE CONDUITS SHALL BE RESERVED FOR SERVICE PROVIDER USE ONLY. (BY DIV. 26).
5. (2) 4-INCH SCHEDULE 80 PVC CONDUITS BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM THE NEW HANDHOLE TO THE BUILDING POINT OF ENTRY SERVING THE NEW MDF LOCATION. CONDUITS SHALL TRANSITION TO VERTICAL RISER PATHWAYS AS REQUIRED TO SERVE THE MDF LOCATED ON THE PLATFORM LEVEL. CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS AT EACH END OF THE CONDUIT. COORDINATE EXACT POINT OF ENTRY, SLEEVES, AND VERTICAL PATHWAY ROUTING WITH ARCHITECTURAL AND STRUCTURAL CONDITIONS. (BY DIV. 26).
6. (1) 1 1/4-INCH SCHEDULE 80 PVC CONDUIT BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM LOCKABLE COMMUNICATIONS HAND HOLE TO LIGHT POLE FOR POLE MOUNTED SECURITY CAMERA. CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. CONTRACTOR SHALL PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS ON EACH END OF THE CONDUIT. (BY DIV. 26).
7. APPROXIMATE LOCATION OF POLE MOUNTED VIDEO SURVEILLANCE CAMERA.
8. PROVIDE POWERED FIBER OPTIC CABLE TO SUPPORT SECURITY POLE-MOUNTED CAMERA. TERMINATE AT MEDIA CONVERTER INSTALLED WITHIN NEMA-RATED WEATHERPROOF ENCLOSURE. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
9. APPROXIMATE LOCATION WHERE EXISTING UNDERGROUND COMMUNICATIONS PATHWAYS TERMINATE ADJACENT TO NEW BUILDING; PROVIDE NEW INTERCEPT HANDHOLE/PULLBOX AT THIS LOCATION TO FACILITATE TRANSITION BETWEEN NEW PATHWAYS FROM NEW BUILDING AND EXISTING PATHWAYS ROUTING BACK TO EXISTING BUILDING IDF; ANY REQUIRED CONDUIT INTERCEPTION, MODIFICATION, OR ADJUSTMENT SHALL BE BY DIV. 26, WHILE DIV. 27 SHALL PROVIDE AND ROUTE TELECOMMUNICATIONS CABLING THROUGH NEW AND EXISTING PATHWAYS; CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND EXISTING CONDITIONS PRIOR TO INSTALLATION.
10. APPROXIMATE LOCATION OF EXISTING UNDERGROUND COMMUNICATIONS TRENCH ROUTING THROUGH PARKING LOT SERVING PATHWAYS BETWEEN NEW AND EXISTING BUILDINGS; CONTRACTOR SHALL UTILIZE THIS EXISTING TRENCH FOR TELECOMMUNICATIONS PATHWAY EXTENSION AND TIE-IN TO ROUTE BACK TO EXISTING BUILDING IDF; CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING, DEPTH, AND CONDITION OF EXISTING CONDUITS WITHIN TRENCH PRIOR TO INSTALLATION AND COORDINATE ALL WORK TO MAINTAIN CONTINUITY OF EXISTING SYSTEMS. (BY DIV. 27)
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15. (2) 2-INCH SCHEDULE 80 PVC CONDUITS BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM THE NEW HANDHOLE TO THE BUILDING POINT OF ENTRY SERVING THE NEW MDF LOCATION. CONDUITS SHALL TRANSITION TO VERTICAL RISER PATHWAYS AS REQUIRED TO SERVE THE MDF LOCATED ON THE PLATFORM LEVEL. CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS AT EACH END OF THE CONDUIT. COORDINATE EXACT POINT OF ENTRY, SLEEVES, AND VERTICAL PATHWAY ROUTING WITH ARCHITECTURAL AND STRUCTURAL CONDITIONS. (BY DIV. 26).
16. PROVIDE POWERED FIBER OPTIC CABLE TO POLE LOCATION FOR FUTURE USE. TERMINATE AT MEDIA CONVERTER INSTALLED WITHIN NEMA-RATED WEATHERPROOF ENCLOSURE. (BY DIV. 27)

TECHNOLOGY SITE PLAN GENERAL NOTES

1. ALL CONDUIT PATHWAYS, ROUGH-INS, CONDUIT SLEEVES, ETC. INDICATED ON THE TECHNOLOGY DRAWINGS ARE TO BE PROVIDED AND INSTALLED BY DIVISION 26.
2. ALL POWER INDICATED ON THE TECHNOLOGY DRAWINGS IS TO BE PROVIDED AND INSTALLED BY DIVISION 26.
3. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH FIRE RATED WALLS/STRUCTURES FOR TECHNOLOGY CABLING BACK TO THE ORIGINAL RATING.
4. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH NON-RATED WALLS/STRUCTURES FOR TECHNOLOGY CABLING FOR SOUND TO REDUCE NOISE TRAVELING THROUGH PENETRATIONS.
5. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH WALLS/STRUCTURES FOR TECHNOLOGY CABLING TO PREVENT WATER INFILTRATION INTO THE SPACE.
6. CONDUITS SHALL MAINTAIN A MINIMUM OF 12-INCHES OF WELL TAMPED EARTH OR 3-INCHES OF CONCRETE SEPARATION BETWEEN ANY FOREIGN CONDUITS AND/OR PIPES THROUGHOUT THE ENTIRE CONDUIT PATHWAY.
7. CONDUIT SEGMENTS SHALL BE NO MORE THAN 600-FEET IN LENGTH WITH NO MORE THAN THE EQUIVALENT OF (2) 90 DEGREE BENDS BETWEEN PULLING POINTS.
8. CONDUITS SHALL MAINTAIN A BEND RADIUS OF 6 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS 2-INCHES OR SMALLER AND 10 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS GREATER THAN 2-INCHES.
9. CONTRACTOR SHALL PROVIDE DETECTABLE WARNING TAPE 12-INCHES BELOW GRADE ON TOP OF ALL CONDUITS THROUGHOUT THE ENTIRE CONDUIT TRENCH.
10. CONTRACTOR SHALL COORDINATE ALL CONDUIT PATHWAYS WITH THE ARCHITECT AND LANDSCAPE PLAN PRIOR TO BEGINNING ANY TRENCHING.
11. ALL CONDUITS SHALL HAVE A PULL STRING INSTALLED FOR PULLING OF CABLE.
12. ALL SPARE CONDUITS OR CONDUITS FILLED WITH LESS THAN THE MAXIMUM ALLOWED FILL RATIO SHALL HAVE A PULL STRING INSTALLED AND LEFT FOR FUTURE PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.



N
TRUE NORTH

1 / T1.12 TECHNOLOGY EXISTING OVERALL SITE PLAN
1" = 40'-0"

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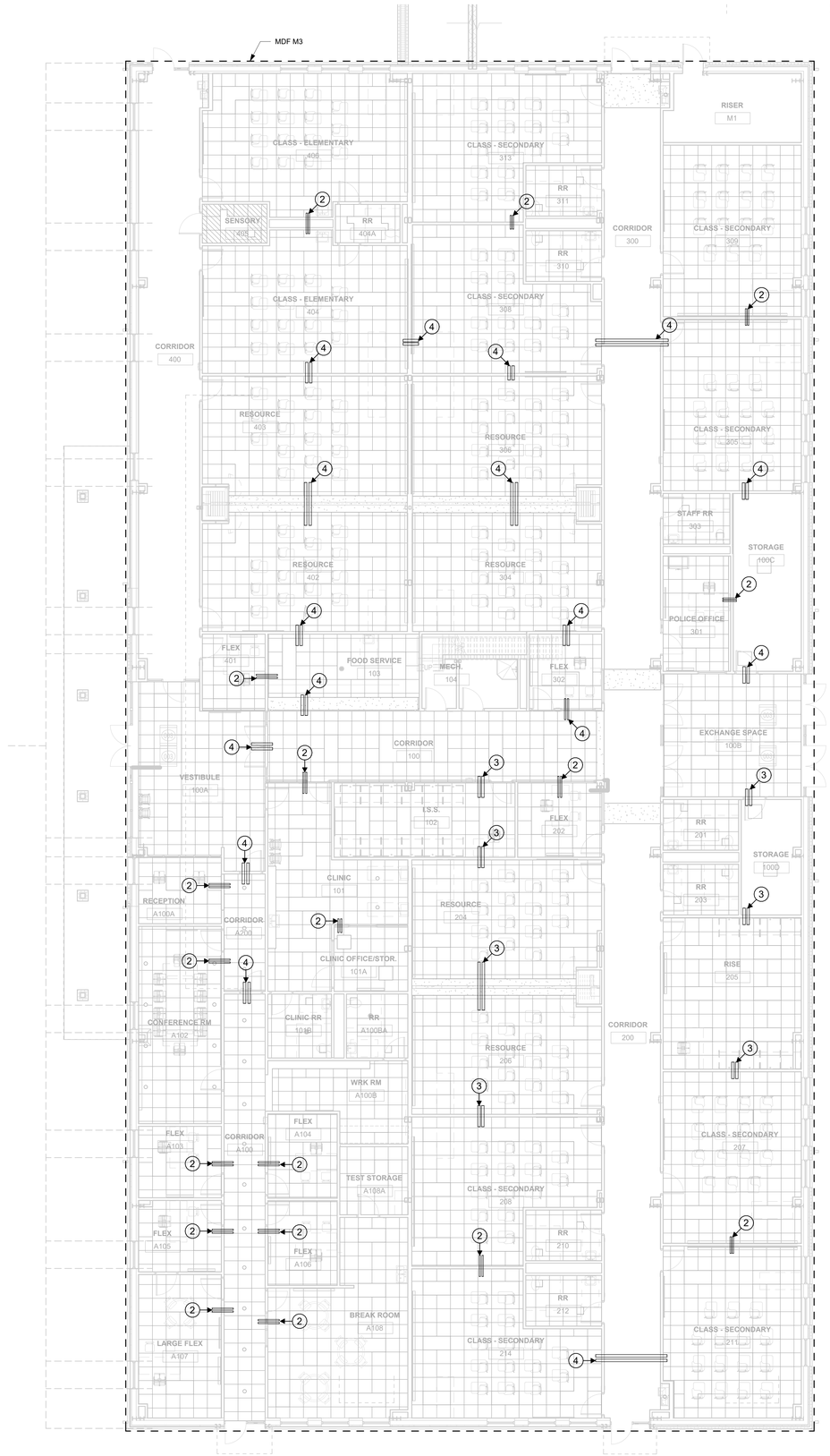
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Designer CCG
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TECHNOLOGY EXISTING OVERALL SITE PLAN

SHEET NO.
T1.12

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1 T2.11 TECHNOLOGY ORIENTATION PLAN - LEVEL ONE
1/8" = 1'-0"

TECHNOLOGY 1ST FLOOR COMPOSITE PLAN GENERAL NOTES

1. ALL CABLING TO WORK AREA OUTLETS SHOWN ON THIS PLAN IS NEW. ROUGH-INS FOR BACKBOXES ARE EXISTING UNLESS NOTED OTHERWISE. ALL WORK, INCLUDING PATHWAYS AND BACKBOXES, IN THE ADDITION ARE NEW.
2. THE TECHNOLOGY REGION / WIRING BOUNDARIES ARE IDENTIFIED ON THE OVERALL SHEETS ONLY AND NOT ON THE ENLARGED SHEETS. CONTRACTOR SHALL REFER TO THE OVERALL SHEETS FOR ALL TECHNOLOGY REGIONS / WIRING BOUNDARIES.
3. ALL CONDUIT PATHWAYS, ROUGH-INS, BACKBOXES, FLOOR BOXES, CONDUIT SLEEVES, ETC. INDICATED ON THE TECHNOLOGY DRAWINGS ARE TO BE PROVIDED AND INSTALLED BY DIVISION 26. REFERENCE TECHNOLOGY DEMOLITION DRAWINGS "TD0..#" SERIES DRAWINGS FOR
4. ALL POWER INDICATED ON THE TECHNOLOGY DRAWINGS IS TO BE PROVIDED AND INSTALLED BY DIVISION 26.
5. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH FIRE RATED WALLS/STRUCTURES FOR TECHNOLOGY CABLING BACK TO THE ORIGINAL RATING.
6. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH NON-RATED WALLS/STRUCTURES FOR TECHNOLOGY CABLING FOR SOUND TO REDUCE NOISE TRAVELING THROUGH PENETRATIONS.
7. TECHNOLOGY CABLING SHALL BE ROUTED IN SEPARATE PATHWAYS IN J-HOOKS, CONDUITS, CONDUIT SLEEVES, CORES, ETC. THROUGHOUT THE ENTIRE PATHWAY. DIFFERENT MEDIA TYPES (DATA, VIDEO, SECURITY, ETC.) SHALL NOT SHARE THE SAME J-HOOK, CONDUIT, CONDUIT SLEEVE, CORE, ETC.
8. UNLESS NOTED OTHERWISE, ALL CONDUITS FOR TECHNOLOGY DEVICES SHALL ROUTE FROM THE DEVICE LOCATION AND TERMINATE ABOVE AN ACCESSIBLE CEILING (AN OPEN CEILING OR CLOUD TYPE CEILING IS NOT CONSIDERED AN ACCESSIBLE CEILING) IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF A MAIN CORRIDOR. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF / IDF ROOM TO MINIMIZE THE CABLE LENGTH ENSURING CABLE LENGTH DOES NOT EXCEED 275 FEET.
9. UNLESS NOTED OTHERWISE ALL CONDUITS SHALL BE HOMERUN FROM THE DEVICE LOCATION AND NO DAISY CHAINING OF DEVICES / ROUGH-INS SHALL BE ALLOWED.
10. CONDUIT SEGMENTS SHALL BE NO MORE THAN 100-FEET IN LENGTH WITH NO MORE THAN THE EQUIVALENT OF (2) 90 DEGREE BENDS BETWEEN PULLING POINTS.
11. CONDUITS SHALL MAINTAIN A BEND RADIUS OF 6 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS 2-INCHES OR SMALLER AND 10 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS GREATER THAN 2-INCHES.
12. ALL CONDUITS SHALL HAVE A PULL STRING INSTALLED FOR PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.
13. ALL SPARE CONDUITS OR CONDUITS FILLED WITH LESS THAN THE MAXIMUM ALLOWED FILL RATIO SHALL HAVE A PULL STRING INSTALLED AND LEFT FOR FUTURE PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.
14. EQUIPMENT NOT RELATED TO THE SUPPORT OF THE TELECOMMUNICATIONS ROOM (E.G., PIPING, DUCTWORK, PNEUMATIC TUBING) SHALL NOT BE INSTALLED IN, PASS THROUGH, OR ENTER THE TELECOMMUNICATIONS ROOM
15. ALL CONDUITS FOR TECHNOLOGY DEVICES SHALL ROUTE FROM THE DEVICE LOCATION AND TERMINATE ABOVE A LAY- IN TYPE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE A LAY-IN TYPE CEILING TO PREVENT THE CABLES FROM BEING EXPOSED, THE CONDUIT SHALL ROUTE TO THE NEAREST LAY-IN TYPE CEILING OFF A MAIN CORRIDOR OR THE NEAREST MDF/IDF. THE CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE MAIN CORRIDOR OR THE NEAREST MDF/IDF TO MINIMIZE THE CABLE LENGTH ENSURING THE CABLE LENGTH DOES NOT EXCEED 275 FEET. CONDUIT, CONNECTIONS, J-BOXES, SUSPENSION, ANCHORAGES, AND OTHER CONDUIT COMPONENTS EXPOSED TO VIEW IN PUBLIC SPACES SHALL BE ROUTED AND INSTALLED CAREFULLY TO MINIMIZE VISUAL IMPACT AND SHALL BE FULLY PAINTED TO MATCH UNLESS NOTED OTHERWISE.
16. PROVIDE VERTICAL TELECOMMUNICATIONS PATHWAYS FROM THE MDF LOCATED ON THE PLATFORM LEVEL TO SERVE TECHNOLOGY DISTRIBUTION ON THE FIRST FLOOR. PATHWAYS SHALL CONSIST OF CONDUITS, SLEEVES, OR OTHER APPROVED TELECOMMUNICATIONS PATHWAYS ROUTED THROUGH STRUCTURAL FRAMING, WALLS, OR SHAFT SPACES AS REQUIRED. CONTRACTOR SHALL COORDINATE FINAL ROUTING WITH STRUCTURAL AND ARCHITECTURAL CONDITIONS. PROVIDE PULL BOXES OR JUNCTION BOXES AS REQUIRED TO MAINTAIN COMPLIANT CABLE PULL DISTANCES AND BEND RADII.

TECHNOLOGY 1ST FLOOR COMPOSITE PLAN KEYED NOTES

1. (1) 2-INCH EMT CONDUIT SLEEVE ABOVE ACCESSIBLE CEILING WITH NYLON BUSHING ON EACH END AND SECURED TO WALL. CONDUIT SLEEVE SHALL BE USED FOR LOW VOLTAGE TECHNOLOGY CABLE ONLY. (BY DIV 26)
2. (2) 2-INCH EMT CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH NYLON BUSHING ON EACH END AND SECURED TO WALL. CONDUIT SLEEVES SHALL BE USED FOR LOW VOLTAGE TECHNOLOGY CABLE ONLY. (BY DIV 26)
3. (2) 4-INCH EMT CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH NYLON BUSHING ON EACH END AND SECURED TO WALL. CONDUIT SLEEVES SHALL BE USED FOR LOW VOLTAGE TECHNOLOGY CABLE ONLY. (BY DIV 26)
4. (4) 4-INCH EMT CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH NYLON BUSHINGS ON EACH END AND SECURED TO WALL. CONDUIT SLEEVES SHALL BE USED FOR LOW VOLTAGE TECHNOLOGY CABLE ONLY. (BY DIV 26)

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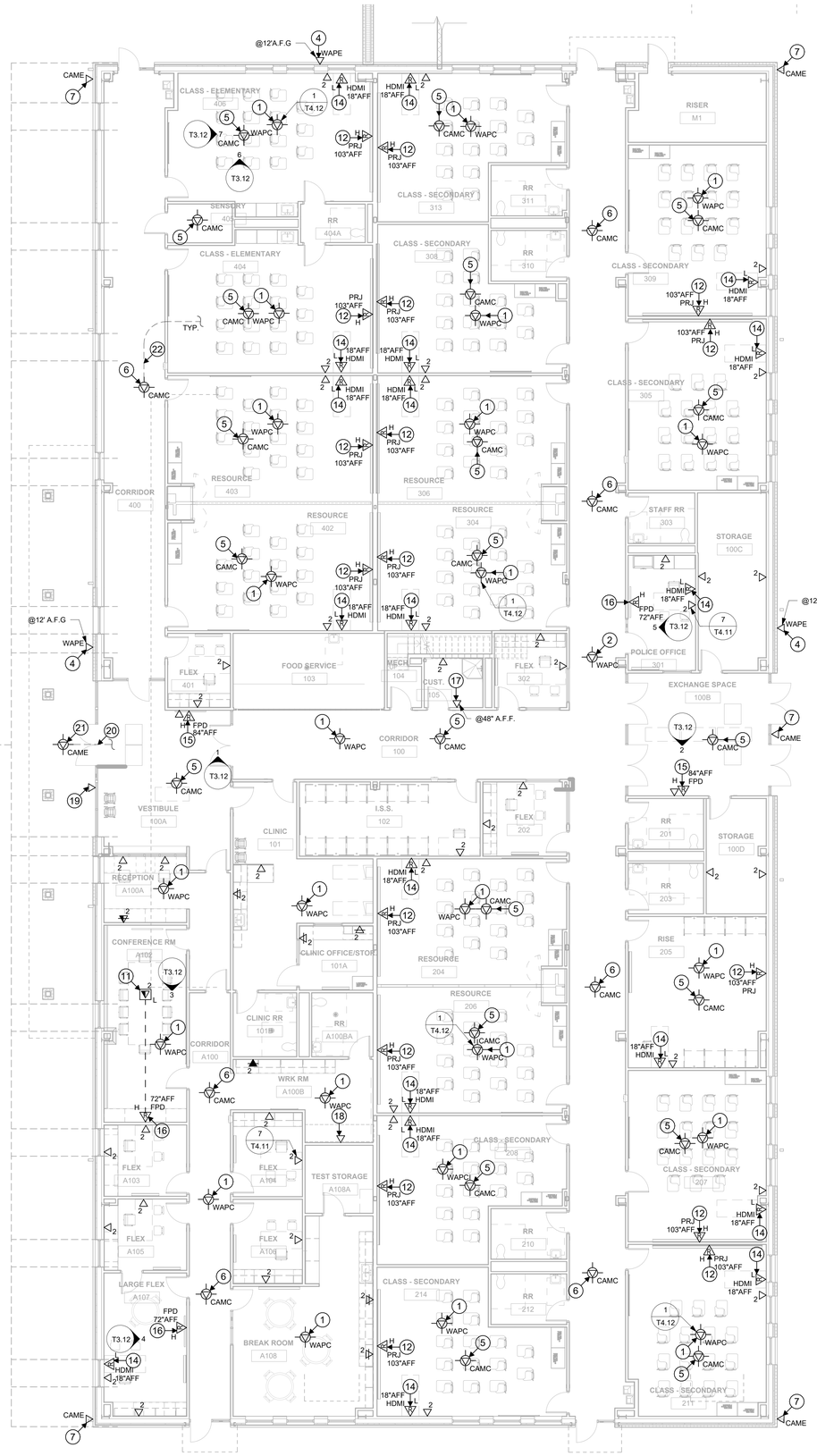
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Designer CCG
Drawn By CCG

PROJECT NO.
25-0067.00

SHEET TITLE
TECHNOLOGY ORIENTATION PLAN - LEVEL ONE

SHEET NO.
T2.11

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1 T2.12 TECHNOLOGY ENLARGED ORIENTATION PLAN - LEVEL ONE
1/8" = 1'-0"

TECHNOLOGY FLOOR PLANS GENERAL NOTES

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7. TECHNOLOGY CABLING SHALL BE ROUTED IN SEPARATE PATHWAYS IN J-HOOKS, CONDUITS, CONDUIT SLEEVES, CORES, ETC. THROUGHOUT THE ENTIRE PATHWAY. DIFFERENT MEDIA TYPES (DATA, VIDEO, SECURITY, ETC.) SHALL NOT SHARE THE SAME J-HOOK, CONDUIT, CONDUIT SLEEVE, CORE, ETC.
8. UNLESS NOTED OTHERWISE, ALL CONDUITS FOR TECHNOLOGY DEVICES SHALL ROUTE FROM THE DEVICE LOCATION AND TERMINATE ABOVE AN ACCESSIBLE CEILING (AN OPEN CEILING OR CLOUD TYPE CEILING IS NOT CONSIDERED AN ACCESSIBLE CEILING) IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF A MAIN CORRIDOR. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF / IDF ROOM TO MINIMIZE THE CABLE LENGTH ENSURING CABLE LENGTH DOES NOT EXCEED 275 FEET.
9. UNLESS NOTED OTHERWISE ALL CONDUITS SHALL BE HOMERUN FROM THE DEVICE LOCATION AND NO DAISY CHAINING OF DEVICES / ROUGH-INS SHALL BE ALLOWED.
10. CONDUIT SEGMENTS SHALL BE NO MORE THAN 100-FEET IN LENGTH WITH NO MORE THAN THE EQUIVALENT OF (2) 90 DEGREE BENDS BETWEEN PULLING POINTS.
11. CONDUITS SHALL MAINTAIN A BEND RADIUS OF 6 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS 2-INCHES OR SMALLER AND 10 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS GREATER THAN 2-INCHES.
12. ALL CONDUITS SHALL HAVE A PULL STRING INSTALLED FOR PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.
13. ALL SPARE CONDUITS OR CONDUITS FILLED WITH LESS THAN THE MAXIMUM ALLOWED FILL RATIO SHALL HAVE A PULL STRING INSTALLED AND LEFT FOR FUTURE PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.
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15. ALL CONDUITS FOR TECHNOLOGY DEVICES SHALL ROUTE FROM THE DEVICE LOCATION AND TERMINATE ABOVE A LAY- IN TYPE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE A LAY-IN TYPE CEILING TO PREVENT THE CABLES FROM BEING EXPOSED, THE CONDUIT SHALL ROUTE TO THE NEAREST LAY-IN TYPE CEILING OFF A MAIN CORRIDOR OR THE NEAREST MDF/IDF. THE CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE MAIN CORRIDOR OR THE NEAREST MDF/IDF TO MINIMIZE THE CABLE LENGTH ENSURING THE CABLE LENGTH DOES NOT EXCEED 275 FEET. CONDUIT, CONNECTIONS, J-BOXES, SUSPENSION, ANCHORAGES, AND OTHER CONDUIT COMPONENTS EXPOSED TO VIEW IN PUBLIC SPACES SHALL BE ROUTED AND INSTALLED CAREFULLY TO MINIMIZE VISUAL IMPACT AND SHALL BE FULLY PAINTED TO MATCH UNLESS NOTED OTHERWISE.
16. ANY PULL-DOWN SCREENS IDENTIFIED FOR REMOVAL SHALL BE REMOVED BY OWNER. CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO DEMOLITION.
17. HDMI ROUGH-INS (HI AND LOW LOCATIONS) SHALL BE PROVIDED AS INDICATED. CONTRACTOR SHALL PROVIDE A MINIMUM 3- FEET SERVICE LOOP AT EACH END OF ALL HDMI CABLING TO ALLOW FOR FINAL CONNECTION AND TERMINATION.
18. CONTRACTOR SHALL PROVIDE CEILING BRACKET FOR PROJECTOR. INCLUDING KISD PROJECTOR POLE AND MOUNT WITH CEILING GRID MOUNT. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF CEILING MOUNT AND ASSOCIATED POWER WITH OWNER PRIOR TO INSTALLATION.

TECHNOLOGY FLOOR PLANS KEYED NOTES

1. DATA CABLE WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING FOR OWNER PROVIDED / OWNER INSTALLED CEILING MOUNTED WIRELESS ACCESS POINT. CONTRACTOR SHALL PLACE A GREEN ADHESIVE DOT AND A LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW THE OUTLET LOCATION FOR FUTURE IDENTIFICATION OF THE OUTLET LOCATION.
2. DATA CABLE FOR OWNER PROVIDED / OWNER INSTALLED INTERIOR CEILING MOUNTED WIRELESS ACCESS POINT WHERE THERE IS NOT AN ACCESSIBLE CEILING. DATA CABLE SHALL BE TERMINATED WITH A SURFACE MOUNTED BOX LOCATED INSIDE THE WIRELESS ACCESS POINT ROUGH-IN.
3. DATA CABLE FOR OWNER PROVIDED / OWNER INSTALLED WALL MOUNTED WIRELESS ACCESS POINT WHERE THERE IS NOT AN ACCESSIBLE CEILING. DATA CABLE SHALL BE TERMINATED WITH A SURFACE MOUNTED BOX LOCATED INSIDE THE WIRELESS ACCESS POINT ROUGH-IN.
4. DATA CABLE FOR OWNER PROVIDED / OWNER INSTALLED EXTERIOR WALL MOUNTED WIRELESS ACCESS POINT WHERE THERE IS NOT AN ACCESSIBLE CEILING. DATA CABLE SHALL BE TERMINATED WITH A SURFACE MOUNTED BOX LOCATED INSIDE THE WIRELESS ACCESS POINT ROUGH-IN
5. DATA CABLE WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING FOR CEILING MOUNTED VIDEO SURVEILLANCE CAMERA. CONTRACTOR SHALL PLACE A YELLOW ADHESIVE DOT AND A LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW THE OUTLET LOCATION FOR FUTURE IDENTIFICATION OF THE OUTLET LOCATION. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
6. DATA CABLE FOR INTERIOR WALL MOUNTED VIDEO SURVEILLANCE CAMERA WHERE THERE IS NOT AN ACCESSIBLE CEILING. DATA CABLE SHALL BE TERMINATED WITH A SURFACE MOUNTED BOX LOCATED INSIDE THE CAMERA ROUGH-IN. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
7. DATA CABLE FOR EXTERIOR WALL MOUNTED VIDEO SURVEILLANCE CAMERA WHERE THERE IS NOT AN ACCESSIBLE CEILING. DATA CABLE SHALL BE TERMINATED WITH A SURFACE MOUNTED BOX LOCATED INSIDE THE CAMERA ROUGH-IN. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
8. DATA CABLE FOR MECHANICAL / ELECTRICAL CONTROLS. REFER TO MECHANICAL / ELECTRICAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
9. DATA CABLES FOR SECURITY PANEL. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
10. DATA CABLE FOR FIRE ALARM PANEL. REFER TO FIRE ALARM DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
11. FLOOR BOX AS SPECIFIED AND INSTALLED BY DIVISION 26. PROVIDE (1) 1-INCH CONDUIT DEDICATED FOR DATA CABLE FROM THE POKE THROUGH TO ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE POKE THROUGH IS LOCATED. PROVIDE (1) 1.5-INCH " CONDUIT FROM FLOOR BOX TO THE ACCESSIBLE CEILING AT THE SAME WALL OF THE DISPLAY. AV CONTRACTOR TO PROVIDE PRESENTER STATION HDMI PASS-THROUGH CONNECTION PLATE IN FLOOR BOX. PROVIDE AV PATCH CABLING FROM FLOOR BOX TO TABLE CUBBY OR TABLE GROMMET. REFER TO ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL CONDUIT ROUGH-IN REQUIREMENTS PRIOR TO INSTALLATION.
12. APPROXIMATE ROUGH-IN LOCATION FOR OWNER-FURNISHED / OWNER-INSTALLED WALL-MOUNTED SHORT-THROW PROJECTOR. DIV 26 PROVIDE ONE (1) 20A / 120V QUAD OUTLET AT 103-INCHES ABOVE FINISHED FLOOR ON CENTER. AV CONTRACTOR SHALL PROVIDE PATCH CABLE AND 1-GANG GROMMET WALL PLATE (103" AFF), PER SPECIFICATIONS. COORDINATE OFFSET ROUGH-INS FOR CLASSROOMS WITH TEACHING WALLS BACK-TO-BACK.
13. NOT USED
14. APPROXIMATE ROUGH-IN LOCATION FOR PRESENTER STATION HDMI CONNECTION. DIV 26 PROVIDE ONE (1) 1-GANG 3-INCH-DEEP BACK BOX, MOUNTED FLUSH AT 18-INCHES ABOVE FINISHED FLOOR ON CENTER, AND (1) 1-INCH EMT CONDUIT PATHWAY TO THE ABOVE ACCESSIBLE CEILING.
15. APPROXIMATE ROUGH-IN LOCATION FOR OWNER-FURNISHED / OWNER-INSTALLED WALL-MOUNTED FLAT PANEL DISPLAY AND MOUNT. DIV 26 PROVIDE ONE (1) 15A / 120V DUPLEX OUTLET AT 84-INCHES ABOVE FINISHED FLOOR ON CENTER. AV CONTRACTOR SHALL PROVIDE PATCH CABLE AND 1-GANG GROMMET WALL PLATE (84" AFF), PER SPECIFICATIONS. DIV 27 PROVIDE (1) DATA DROP AND FACEPLATE AT 84" AFF.
16. APPROXIMATE ROUGH-IN LOCATION FOR OWNER-FURNISHED / OWNER-INSTALLED WALL-MOUNTED FLAT PANEL DISPLAY AND MOUNT. DIV 26 PROVIDE ONE (1) 15A / 120V DUPLEX OUTLET AT 72-INCHES ABOVE FINISHED FLOOR ON CENTER. AV CONTRACTOR SHALL PROVIDE PATCH CABLE AND 1-GANG GROMMET WALL PLATE (72" AFF), PER SPECIFICATIONS.
17. DATA CABLE FOR KRONOS CLOCK. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. (BY DIV. 27/26)
18. DATA CABLE FOR OWNER PROVIDED / OWNER INSTALLED PRINTER.
19. DATA CABLE FOR VIDEO INTERCOM DOOR STATION. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
20. APPROXIMATE ROUTE CONDUIT SHALL TAKE TO A LAY-IN TYPE CEILING OR ALONG THE UNDERSIDE OF THE CANOPY STRUCTURE WHERE APPLICABLE. CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING LINES AND IN THE MOST DIRECT ROUTE POSSIBLE TO THE NEAREST LAY-IN TYPE CEILING OFF A MAIN CORRIDOR, OR TO THE DESIGNATED CANOPY TRANSITION POINT, TO MINIMIZE CABLE LENGTHS. ENSURE TOTAL CABLE DISTANCE DOES NOT EXCEED 275 FEET. PROVIDE JUNCTION BOXES AND PULL POINTS AS REQUIRED. (BY DIV. 26)
21. DATA CABLE WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING FOR CANOPY-MOUNTED EXTERIOR VIDEO SURVEILLANCE CAMERA. CABLING SHALL BE ROUTED THROUGH A 1" CONDUIT FROM THE ACCESSIBLECEILING SPACE TO THE CANOPY STRUCTURE. ALL CONDUIT PENETRATIONS TO EXTERIOR SHALL BE PROPERLY SEALED AND WEATHERPROOFED. DATA DROP SHALL BE PROVIDED AND INSTALLED BY DIVISION 27. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
22. APPROXIMATE ROUTE CONDUIT SHALL TAKE TO A LAY- IN TYPE CEILING. THE CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO THE WALLS AND IN THE MOST DIRECT MANNER POSSIBLE TO THE NEAREST LAY-IN TYPE CEILING OFF A MAIN CORRIDOR TO MINIMIZE THE CABLE LENGTH, ENSURING THE CABLE LENGTH DOES NOT EXCEED 275 FEET. PROVIDE JUNCTION BOXES AS REQUIRED. (BY DIV 26)

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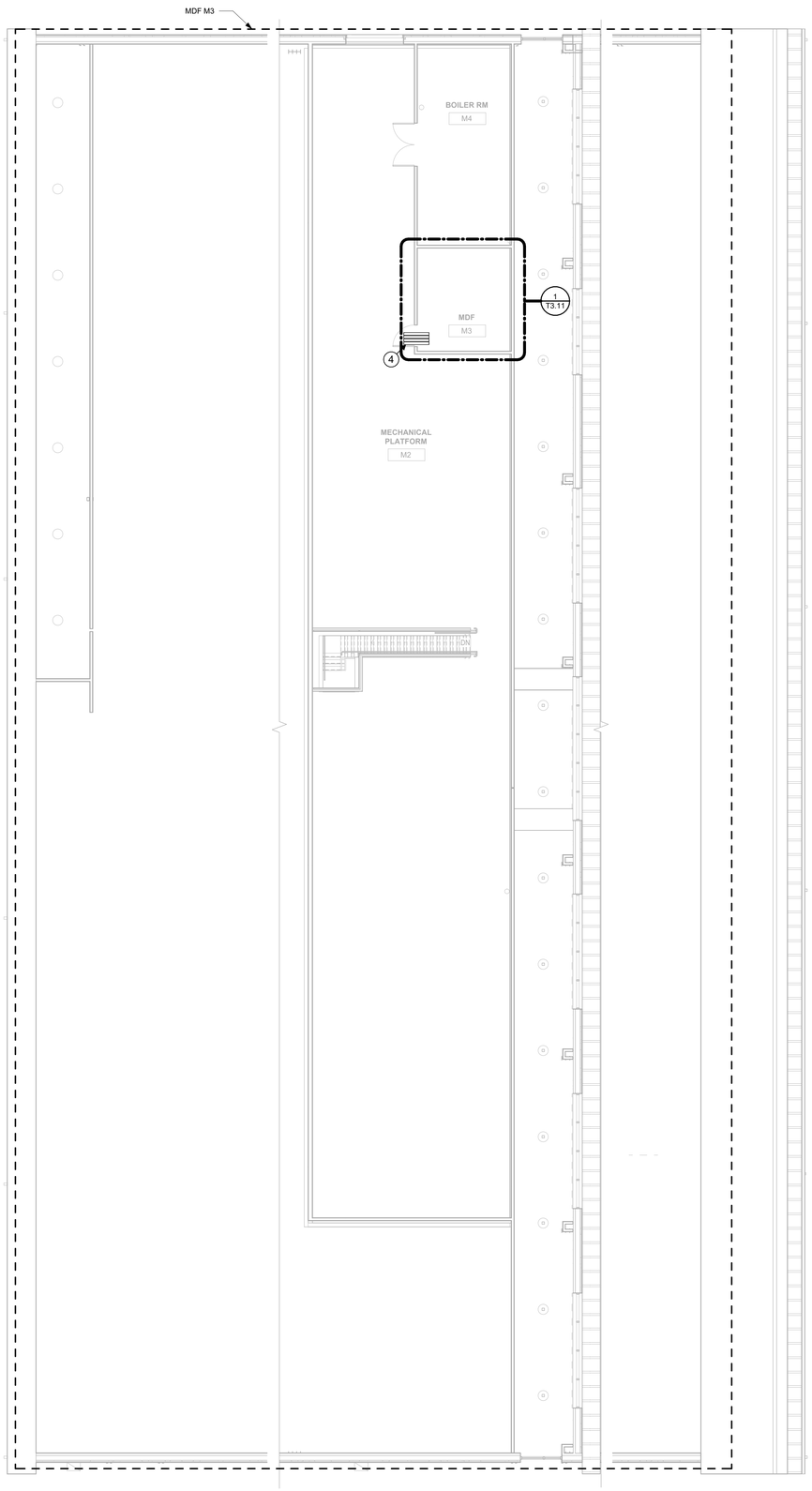
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SHEET TITLE
TECHNOLOGY ENLARGED ORIENTATION PLAN - LEVEL ONE

SHEET NO.
T2.12

NEW OPPORTUNITY AWARENESS CENTER

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1 T2.13 TECHNOLOGY OVERALL PLATFORM FLOOR PLAN
1/8" = 1'-0"

TECHNOLOGY 1ST FLOOR COMPOSITE PLAN GENERAL NOTES

1. ALL CABLING TO WORK AREA OUTLETS SHOWN ON THIS PLAN IS NEW. ROUGH-INS FOR BACKBOXES ARE EXISTING UNLESS NOTED OTHERWISE. ALL WORK, INCLUDING PATHWAYS AND BACKBOXES, IN THE ADDITION ARE NEW.
2. THE TECHNOLOGY REGION / WIRING BOUNDARIES ARE IDENTIFIED ON THE OVERALL SHEETS ONLY AND NOT ON THE ENLARGED SHEETS. CONTRACTOR SHALL REFER TO THE OVERALL SHEETS FOR ALL TECHNOLOGY REGIONS / WIRING BOUNDARIES.
3. ALL CONDUIT PATHWAYS, ROUGH-INS, BACKBOXES, FLOOR BOXES, CONDUIT SLEEVES, ETC. INDICATED ON THE TECHNOLOGY DRAWINGS ARE TO BE PROVIDED AND INSTALLED BY DIVISION 26. REFERENCE TECHNOLOGY DEMOLITION DRAWINGS "TD0..#" SERIES DRAWINGS FOR
4. ALL POWER INDICATED ON THE TECHNOLOGY DRAWINGS IS TO BE PROVIDED AND INSTALLED BY DIVISION 26.
5. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH FIRE RATED WALLS/STRUCTURES FOR TECHNOLOGY CABLING BACK TO THE ORIGINAL RATING.
6. CONTRACTOR SHALL RESTORE ALL PENETRATIONS PROVIDED THROUGH NON-RATED WALLS/STRUCTURES FOR TECHNOLOGY CABLING FOR SOUND TO REDUCE NOISE TRAVELING THROUGH PENETRATIONS.
7. TECHNOLOGY CABLING SHALL BE ROUTED IN SEPARATE PATHWAYS IN J-HOOKS, CONDUITS, CONDUIT SLEEVES, CORES, ETC. THROUGHOUT THE ENTIRE PATHWAY. DIFFERENT MEDIA TYPES (DATA, VIDEO, SECURITY, ETC.) SHALL NOT SHARE THE SAME J-HOOK, CONDUIT, CONDUIT SLEEVE, CORE, ETC.
8. UNLESS NOTED OTHERWISE, ALL CONDUITS FOR TECHNOLOGY DEVICES SHALL ROUTE FROM THE DEVICE LOCATION AND TERMINATE ABOVE AN ACCESSIBLE CEILING (AN OPEN CEILING OR CLOUD TYPE CEILING IS NOT CONSIDERED AN ACCESSIBLE CEILING) IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF A MAIN CORRIDOR. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF / IDF ROOM TO MINIMIZE THE CABLE LENGTH ENSURING CABLE LENGTH DOES NOT EXCEED 275 FEET.
9. UNLESS NOTED OTHERWISE ALL CONDUITS SHALL BE HOMERUN FROM THE DEVICE LOCATION AND NO DAISY CHAINING OF DEVICES / ROUGH-INS SHALL BE ALLOWED.
10. CONDUIT SEGMENTS SHALL BE NO MORE THAN 100-FEET IN LENGTH WITH NO MORE THAN THE EQUIVALENT OF (2) 90 DEGREE BENDS BETWEEN PULLING POINTS.
11. CONDUITS SHALL MAINTAIN A BEND RADIUS OF 6 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS 2-INCHES OR SMALLER AND 10 TIMES THE DIAMETER OF THE CONDUIT FOR CONDUITS GREATER THAN 2-INCHES.
12. ALL CONDUITS SHALL HAVE A PULL STRING INSTALLED FOR PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.
13. ALL SPARE CONDUITS OR CONDUITS FILLED WITH LESS THAN THE MAXIMUM ALLOWED FILL RATIO SHALL HAVE A PULL STRING INSTALLED AND LEFT FOR FUTURE PULLING OF CABLE. CLEARLY LABEL AS "PULL STRING" INDICATING OPPOSITE END LOCATION.
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16. PROVIDE VERTICAL TELECOMMUNICATIONS PATHWAYS FROM THE MDF LOCATED ON THE PLATFORM LEVEL TO SERVE TECHNOLOGY DISTRIBUTION ON THE FIRST FLOOR. PATHWAYS SHALL CONSIST OF CONDUITS, SLEEVES, OR OTHER APPROVED TELECOMMUNICATIONS PATHWAYS ROUTED THROUGH STRUCTURAL FRAMING, WALLS, OR SHAFT SPACES AS REQUIRED. CONTRACTOR SHALL COORDINATE FINAL ROUTING WITH STRUCTURAL AND ARCHITECTURAL CONDITIONS. PROVIDE PULL BOXES OR JUNCTION BOXES AS REQUIRED TO MAINTAIN COMPLIANT CABLE PULL DISTANCES AND BEND RADII.

TECHNOLOGY 1ST FLOOR COMPOSITE PLAN KEYED NOTES

1. (1) 2-INCH EMT CONDUIT SLEEVE ABOVE ACCESSIBLE CEILING WITH NYLON BUSHING ON EACH END AND SECURED TO WALL. CONDUIT SLEEVE SHALL BE USED FOR LOW VOLTAGE TECHNOLOGY CABLE ONLY. (BY DIV 26)
2. (2) 2-INCH EMT CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH NYLON BUSHING ON EACH END AND SECURED TO WALL. CONDUIT SLEEVES SHALL BE USED FOR LOW VOLTAGE TECHNOLOGY CABLE ONLY. (BY DIV 26)
3. (2) 4-INCH EMT CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH NYLON BUSHING ON EACH END AND SECURED TO WALL. CONDUIT SLEEVES SHALL BE USED FOR LOW VOLTAGE TECHNOLOGY CABLE ONLY. (BY DIV 26)
4. (4) 4-INCH EMT CONDUIT SLEEVES ABOVE ACCESSIBLE CEILING WITH NYLON BUSHINGS ON EACH END AND SECURED TO WALL. CONDUIT SLEEVES SHALL BE USED FOR LOW VOLTAGE TECHNOLOGY CABLE ONLY. (BY DIV 26)

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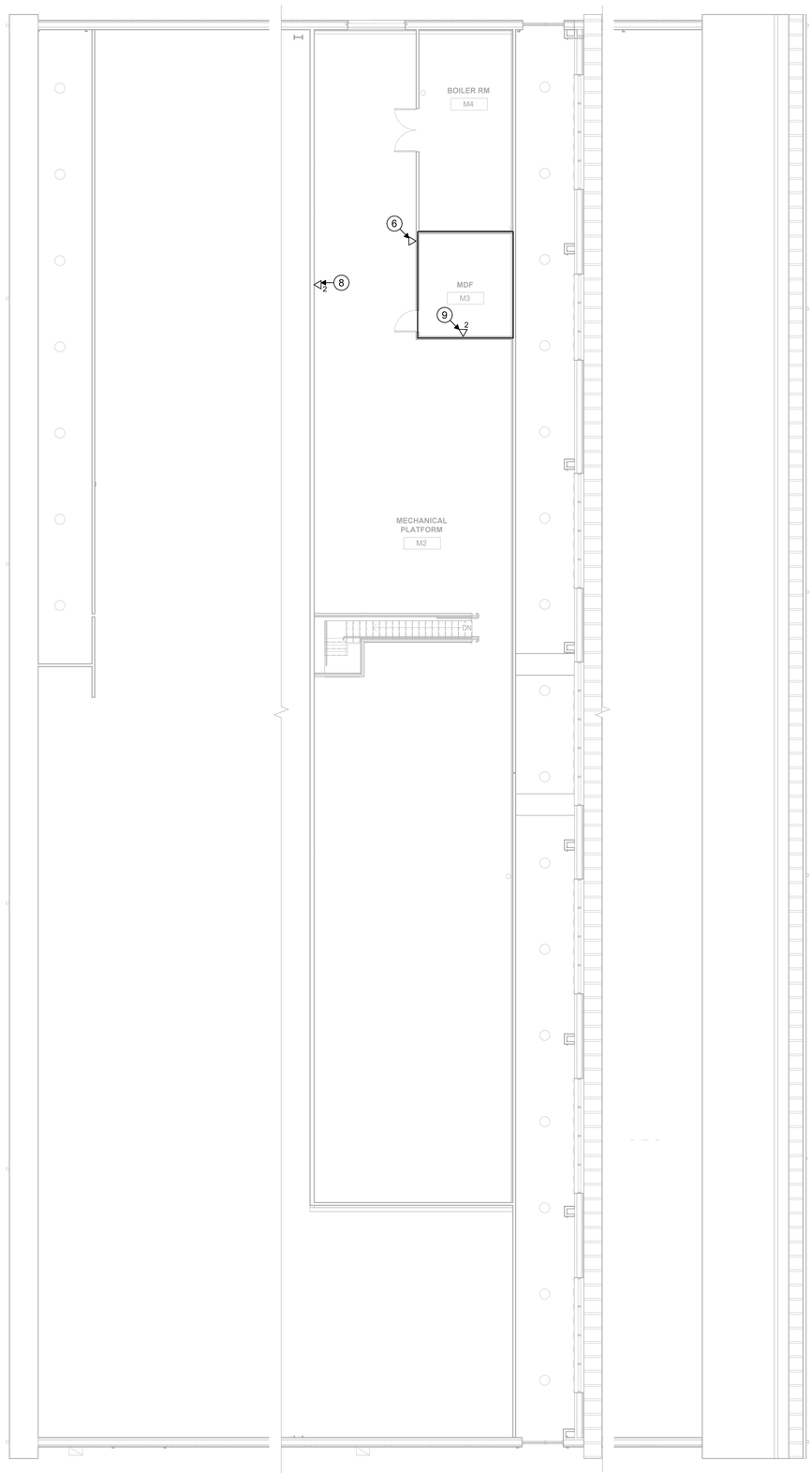
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Proj. Arch.
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SHEET TITLE
TECHNOLOGY OVERALL PLATFORM FLOOR PLAN

SHEET NO.
T2.13

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1 / T2.14 TECHNOLOGY PLATFORM FLOOR PLAN
1/8" = 1'-0"

TECHNOLOGY FLOOR PLANS GENERAL NOTES

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18. CONTRACTOR SHALL PROVIDE CEILING BRACKET FOR PROJECTOR, INCLUDING KISD PROJECTOR POLE AND MOUNT WITH CEILING GRID MOUNT. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF CEILING MOUNT AND ASSOCIATED POWER WITH OWNER PRIOR TO INSTALLATION.

TECHNOLOGY FLOOR PLANS KEYED NOTES

1. DATA CABLE WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING FOR OWNER PROVIDED / OWNER INSTALLED CEILING MOUNTED WIRELESS ACCESS POINT. CONTRACTOR SHALL PLACE A GREEN ADHESIVE DOT AND A LABEL MIRRORING THE LABEL ON THE SURFACE MOUNTED BOX ON THE CEILING GRID DIRECTLY BELOW THE OUTLET LOCATION FOR FUTURE IDENTIFICATION OF THE OUTLET LOCATION.
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8. DATA CABLE FOR MECHANICAL / ELECTRICAL CONTROLS. REFER TO MECHANICAL / ELECTRICAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
9. DATA CABLES FOR SECURITY PANEL. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
10. DATA CABLE FOR FIRE ALARM PANEL. REFER TO FIRE ALARM DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
11. FLOOR BOX AS SPECIFIED AND INSTALLED BY DIVISION 26. PROVIDE (1) 1-INCH CONDUIT DEDICATED FOR DATA CABLE FROM THE POKE THROUGH TO ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE POKE THROUGH IS LOCATED. PROVIDE (1) 1.5-INCH " CONDUIT FROM FLOOR BOX TO THE ACCESSIBLE CEILING AT THE SAME WALL OF THE DISPLAY. AV CONTRACTOR TO PROVIDE PRESENTER STATION HDMI PASS-THROUGH CONNECTION PLATE IN FLOOR BOX. PROVIDE AV PATCH CABLING FROM FLOOR BOX TO TABLE CUBBY OR TABLE GROMMET. REFER TO ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL CONDUIT ROUGH-IN REQUIREMENTS PRIOR TO INSTALLATION.
12. APPROXIMATE ROUGH-IN LOCATION FOR OWNER-FURNISHED / OWNER-INSTALLED WALL-MOUNTED SHORT-THROW PROJECTOR. DIV 26 PROVIDE ONE (1) 20A / 120V QUAD OUTLET AT 103-INCHES ABOVE FINISHED FLOOR ON CENTER. AV CONTRACTOR SHALL PROVIDE PATCH CABLE AND 1-GANG GROMMET WALL PLATE (103" AFF), PER SPECIFICATIONS. COORDINATE OFFSET ROUGH-INS FOR CLASSROOMS WITH TEACHING WALLS BACK-TO-BACK.
13. NOT USED
14. APPROXIMATE ROUGH-IN LOCATION FOR PRESENTER STATION HDMI CONNECTION. DIV 26 PROVIDE ONE (1) 1-GANG 3-INCH-DEEP BACK BOX, MOUNTED FLUSH AT 18-INCHES ABOVE FINISHED FLOOR ON CENTER, AND (1) 1-INCH EMT CONDUIT PATHWAY TO THE ABOVE ACCESSIBLE CEILING.
15. APPROXIMATE ROUGH-IN LOCATION FOR OWNER-FURNISHED / OWNER-INSTALLED WALL-MOUNTED FLAT PANEL DISPLAY AND MOUNT. DIV 26 PROVIDE ONE (1) 15A / 120V DUPLEX OUTLET AT 84-INCHES ABOVE FINISHED FLOOR ON CENTER. AV CONTRACTOR SHALL PROVIDE PATCH CABLE AND 1-GANG GROMMET WALL PLATE (84" AFF), PER SPECIFICATIONS. DIV 27 PROVIDE (1) DATA DROP AND FACEPLATE AT 84" AFF.
16. APPROXIMATE ROUGH-IN LOCATION FOR OWNER-FURNISHED / OWNER-INSTALLED WALL-MOUNTED FLAT PANEL DISPLAY AND MOUNT. DIV 26 PROVIDE ONE (1) 15A / 120V DUPLEX OUTLET AT 72-INCHES ABOVE FINISHED FLOOR ON CENTER. AV CONTRACTOR SHALL PROVIDE PATCH CABLE AND 1-GANG GROMMET WALL PLATE (72" AFF), PER SPECIFICATIONS.
17. DATA CABLE FOR KRONOS CLOCK. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS. (BY DIV. 27/26)
18. DATA CABLE FOR OWNER PROVIDED / OWNER INSTALLED PRINTER.
19. DATA CABLE FOR VIDEO INTERCOM DOOR STATION. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
20. APPROXIMATE ROUTE CONDUIT SHALL TAKE TO A LAY-IN TYPE CEILING OR ALONG THE UNDERSIDE OF THE CANOPY STRUCTURE WHERE APPLICABLE. CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING LINES AND IN THE MOST DIRECT ROUTE POSSIBLE TO THE NEAREST LAY-IN TYPE CEILING OFF A MAIN CORRIDOR, OR TO THE DESIGNATED CANOPY TRANSITION POINT, TO MINIMIZE CABLE LENGTHS. ENSURE TOTAL CABLE DISTANCE DOES NOT EXCEED 275 FEET. PROVIDE JUNCTION BOXES AND PULL POINTS AS REQUIRED. (BY DIV. 26)
21. DATA CABLE WITH 20-FEET OF SLACK NEATLY COILED AND STORED ON J-HOOK ABOVE ACCESSIBLE CEILING FOR CANOPY-MOUNTED EXTERIOR VIDEO SURVEILLANCE CAMERA. CABLING SHALL BE ROUTED THROUGH A 1" CONDUIT FROM THE ACCESSIBLECEILING SPACE TO THE CANOPY STRUCTURE. ALL CONDUIT PENETRATIONS TO EXTERIOR SHALL BE PROPERLY SEALED AND WEATHERPROOFED. DATA DROP SHALL BE PROVIDED AND INSTALLED BY DIVISION 27. REFER TO SECURITY DRAWINGS FOR EXACT LOCATION AND CONDUIT ROUGH-IN REQUIREMENTS.
22. APPROXIMATE ROUTE CONDUIT SHALL TAKE TO A LAY- IN TYPE CEILING. THE CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO THE WALLS AND IN THE MOST DIRECT MANNER POSSIBLE TO THE NEAREST LAY-IN TYPE CEILING OFF A MAIN CORRIDOR TO MINIMIZE THE CABLE LENGTH, ENSURING THE CABLE LENGTH DOES NOT EXCEED 275 FEET. PROVIDE JUNCTION BOXES AS REQUIRED. (BY DIV 26)

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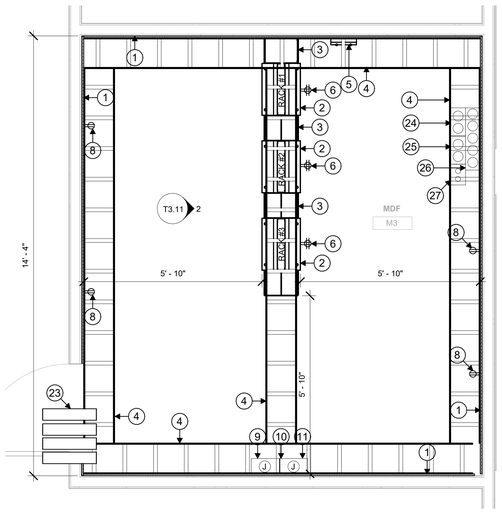
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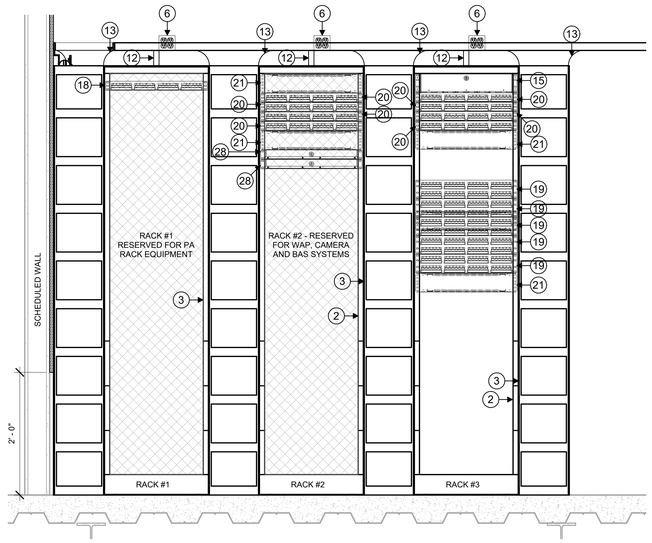
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TECHNOLOGY PLATFORM FLOOR PLAN

SHEET NO.
T2.14

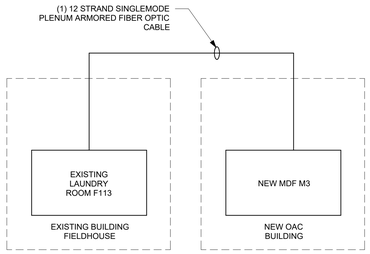
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1 T3.11 MDF M3 ENLARGED VIEW
1/2" = 1'-0"



2 T3.11 MDF M3 - RACK ELEVATIONS
1" = 1'-0"



3 T3.11 TECHNOLOGY RISER DIAGRAM
N.T.S.

CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR THE INSTALLATION OF NEW FIBER CABLING FROM THE MDF IN THE NEW OAC BUILDING TO THE EXISTING IDF LOCATION.

GENERAL NOTE:
CONTRACTOR SHALL REUSE EXISTING CONDUIT AND PATHWAYS FOR BACKBONE DISTRIBUTION WHERE FEASIBLE.
ALL NEW FIBER BACKBONE CABLING SHALL BE INSTALLED TO SUPPORT CURRENT AND FUTURE SYSTEM REQUIREMENTS.

MDF ROOM LAYOUT GENERAL NOTES

1. IN THE EVENT THE CONTRACTOR PROVIDES AND INSTALLS 2-POST EQUIPMENT RACKS IN THE MDF/IDF ROOMS, THE DIVISION 27 CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE IF THE OWNER NEEDS ADDITIONAL EQUIPMENT RACK SUPPORT SUCH AS RAILS OR DEEP SHELVING TO SUPPORT FUTURE OWNER PROVIDED/OWNER INSTALLED UPS SYSTEM EQUIPMENT.
2. THE CONTRACTOR SHALL CONFIRM PATCH PANEL COUNTS WITH CABLE QUANTITIES PRIOR TO BIDDING.
3. EQUIPMENT NOT RELATED TO THE SUPPORT OF THE TELECOMMUNICATIONS ROOM (E.G., PIPING, DUCTWORK, PNEUMATIC TUBING) SHALL NOT BE INSTALLED IN, PASS THROUGH, OR ENTER THE TELECOMMUNICATIONS ROOM.
4. A VERTICAL SECTION OF LADDER RACK SHALL BE ATTACHED TO THE WALLBOARD TO MANAGE BACKBONE CABLES, SERVICE PROVIDER CABLES, OR CABLES AS THEY TRANSITION FROM THE ENTRANCE CONDUITS TO OVERHEAD LADDER RACK.
5. ALL MDF/IDF ROOM POWER AT THE RACKS SHALL BE PROVIDED ON THEIR OWN CIRCUIT BREAKER. POWER OUTLETS AT THE RACK SHALL NOT SHARE THE SAME CIRCUIT BREAKER. (BY DIV. 26).

MDF ROOM LAYOUT KEYED NOTES

1. 4-FEET X 8-FEET X ¾-INCH A-B GRADE, VOID FREE, FIRE RATED PLYWOOD INSTALLED VERTICALLY STARTING AT 24-INCHES ABOVE FINISHED FLOOR ON ALL PERIMETER WALLS. PAINT WITH (2) COATS OF FIRE-RETARDANT PAINT. (BY DIV. 27)
2. 19-INCH X 84-INCH EQUIPMENT RACK. (BY DIV. 27)
3. 10" VERTICAL WIRE MANAGERS. (BY DIV. 27)
4. 12-INCH LADDER RACK MOUNTED AT 87-INCHES ABOVE FINISHED FLOOR. (BY DIV. 27)
5. GROUND BUS BAR MOUNTED AT 84-INCHES ABOVE FINISHED FLOOR. (BY DIV. 27)
6. DEDICATED 20 AMP CIRCUIT WITH QUAD RECEPTACLE MOUNTED TO LADDER RACK AT REAR SIDE OF EQUIPMENT RACKS. (BY DIV. 26)
7. DEDICATED 30 AMP CIRCUIT WITH NEMA L6-30R TWIST LOCK RECEPTACLE MOUNTED TO LADDER RACK AT REAR SIDE OF EQUIPMENT RACKS. (BY DIV. 26)
8. 20 AMP CIRCUIT WITH DUPLEX NEMA 5-20R RECEPTACLE FLUSH MOUNTED TO THE FINISHED WALL SURFACE AT 18-INCHES ABOVE FINISHED FLOOR. MAXIMUM OF (6) PER CIRCUIT. (BY DIV.26)
9. DEDICATED 20 AMP, 120V CIRCUIT HARDWIRED TO ACCESS CONTROL SECURITY PANEL. CIRCUIT SHALL BE SERVED FROM EMERGENCY/GENERATOR-BACKED POWER. (BY DIV. 26)
10. DEDICATED 20 AMP, 120V CIRCUIT HARDWIRED TO INTRUSION DETECTION SECURITY PANEL. CIRCUIT SHALL BE SERVED FROM EMERGENCY/GENERATOR-BACKED POWER. (BY DIV. 26)
11. 48-INCHES WIDE X 84-INCHES HIGH RESERVED FOR ACCESS CONTROL SYSTEM. (BY DIV. 27 / 28)
12. LADDER RACK STAND OFF BRACKETS.
13. LADDER RACK RADIUS DROPS
14. 1RU FIBER OPTIC ENCLOSURE
15. 2RU FIBER OPTIC ENCLOSURE
16. 3RU FIBER OPTIC ENCLOSURE
17. 4RU FIBER OPTIC ENCLOSURE
18. 1RU 24 PORT PATCH PANEL- COPPER BACKBONE
19. 2RU 48 PORT CAT6 COPPER PATCH PANEL
20. 1RU 24 PORT CAT6 COPPER PATCH PANEL
21. 2RU HORIZONTAL WIRE MANAGER
22. 2RU 48 PORT NETWORK SWITCH. OWNER PROVIDED.
23. (4) 4-INCH EMT CONDUIT SLEEVES FOR HORIZONTAL CABLE DISTRIBUTION FROM TELECOMMUNICATIONS ROOMS. SLEEVES SHALL EXTEND FROM ABOVE THE ACCESSIBLE CEILING TO THE CABLE RUNWAY WITHIN THE TELECOMMUNICATIONS SPACE. ENSURE SLEEVES ARE INSTALLED WITH NYLON BUSHINGS ON BOTH ENDS AND SECURELY ANCHORED TO THE WALL. THESE CONDUIT SLEEVES SHALL BE DEDICATED FOR LOW-VOLTAGE TECHNOLOGY CABLING ONLY. (BY DIV 26).
24. (2) 4-INCH SCHEDULE 80 PVC CONDUIT BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM NEW HANDHOLE TO SERVER PROVIDER POLE(S). THE CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. THE CONDUIT RISERS SHALL BE TERMINATED 10 FEET ABOVE FINISHED GRADE AT THE POLE(S). CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. CONTRACTOR SHALL PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS ON EACH END OF THE CONDUIT. THESE CONDUITS SHALL BE RESERVED FOR SERVICE PROVIDER USE ONLY. (BY DIV. 26).
25. (2) 4-INCH SCHEDULE 80 PVC CONDUITS BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM THE NEW HANDHOLE TO THE BUILDING POINT OF ENTRY SERVING THE NEW MDF LOCATION. CONDUITS SHALL TRANSITION TO VERTICAL RISER PATHWAYS AS REQUIRED TO SERVE THE MDF LOCATED ON THE PLATFORM LEVEL. CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS AT EACH END OF THE CONDUIT. COORDINATE EXACT POINT OF ENTRY, SLEEVES, AND VERTICAL PATHWAY ROUTING WITH ARCHITECTURAL AND STRUCTURAL CONDITIONS. (BY DIV. 26).
26. (5) 4-INCH CONDUITS ROUTED FROM THE MDF LOCATED ON THE PLATFORM LEVEL DOWN TO THE FIRST FLOOR CEILING SPACE TO SUPPORT HORIZONTAL CABLING DISTRIBUTION THROUGHOUT THE BUILDING. CONDUITS SHALL TRANSITION FROM THE MDF SPACE AND EXTEND TO THE ACCESSIBLE CEILING SPACE BELOW FOR DISTRIBUTION TO TELECOMMUNICATIONS OUTLETS AND TECHNOLOGY SYSTEMS. CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS AT EACH END OF THE CONDUIT. CONTRACTOR SHALL COORDINATE EXACT STUB-DOWN LOCATION AND ROUTING WITH ARCHITECTURAL, STRUCTURAL, AND MECHANICAL CONDITIONS TO ENSURE ADEQUATE CLEARANCE AND ACCESS FOR HORIZONTAL CABLING DISTRIBUTION. (BY DIV. 26).
27. (2) 2-INCH SCHEDULE 80 PVC CONDUITS BURIED 36-INCHES BELOW FINAL FINISHED GRADE FROM THE NEW HANDHOLE TO THE BUILDING POINT OF ENTRY SERVING THE NEW MDF LOCATION. CONDUITS SHALL TRANSITION TO VERTICAL RISER PATHWAYS AS REQUIRED TO SERVE THE MDF LOCATED ON THE PLATFORM LEVEL. CONTRACTOR SHALL PROVIDE PULL STRING INSIDE EACH CONDUIT. PROVIDE NYLON BUSHINGS AND PROTECTIVE CAPS AT EACH END OF THE CONDUIT. COORDINATE EXACT POINT OF ENTRY, SLEEVES, AND VERTICAL PATHWAY ROUTING WITH ARCHITECTURAL AND STRUCTURAL CONDITIONS. (BY DIV. 26).
28. 1RU RACK-MOUNTED ALTRONIX NETWAYSP4P SERIES POWERED FIBER TRANSCEIVER INSTALLED WITHIN MDF EQUIPMENT RACK. UNIT SHALL SUPPORT POWERED FIBER CONNECTIONS TO POLE-MOUNTED CAMERA LOCATIONS (ACTIVE AND FUTURE) AS INDICATED ON DRAWINGS. COORDINATE FINAL PORT UTILIZATION WITH FIELD DEVICE QUANTITIES. (BY DIV. 27)

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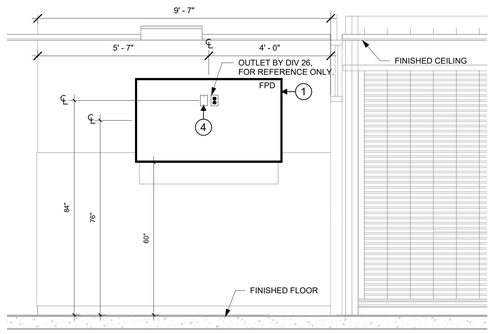
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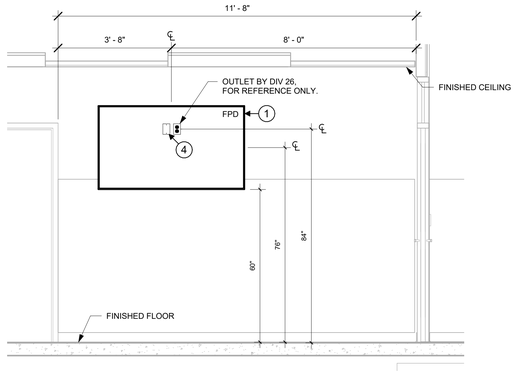
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TECHNOLOGY ENLARGED VIEWS AND ELEVATIONS

SHEET NO.
T3.11

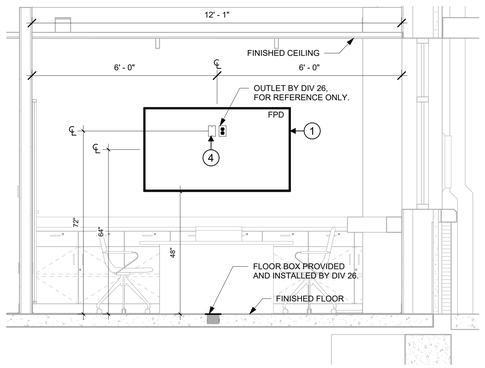
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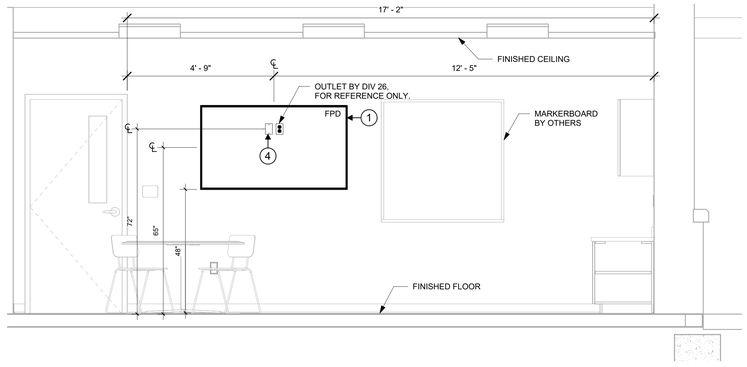
1 T3.12 VESTIBULE 100A - ELEVATION VIEW
1/2" = 1'-0"



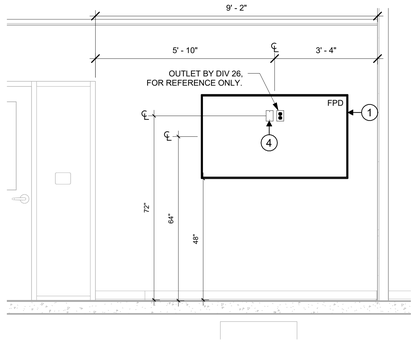
2 T3.12 EXCHANGE SPACE 100B - ELEVATION VIEW
1/2" = 1'-0"



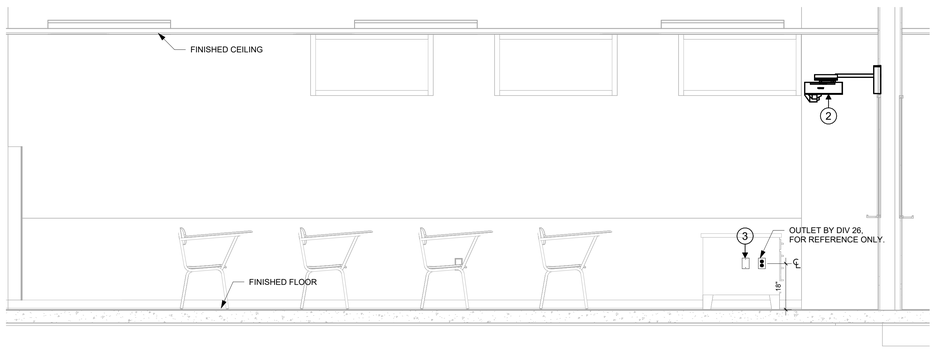
3 T3.12 CONFERENCE RM A102 - ELEVATION VIEW
1/2" = 1'-0"



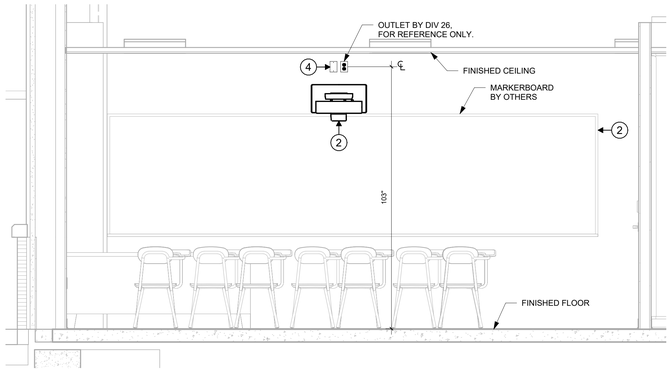
4 T3.12 LARGE FLEX A107 - ELEVATION VIEW
1/2" = 1'-0"



5 T3.12 POLICE OFFICE 301 - ELEVATION VIEW
1/2" = 1'-0"



6 T3.12 CLASS - ELEMENTARY 406 - ELEVATION VIEW
1/2" = 1'-0"



7 T3.12 CLASS - ELEMENTARY 406 - ELEVATION VIEW
1/2" = 1'-0"

GENERAL NOTES

1. ALL DISPLAYS SHALL BE INSTALLED TO MEET ADA DEPTH REQUIREMENTS FROM WALL. CONTRACTOR SHALL NOTIFY ARCHITECT AND CONSULTANT IF ANY DEVICES ARE NON-COMPLIANT WITH ADA REQUIREMENTS.
2. DISPLAY AND AUDIOVISUAL DEVICES INSTALLATION HEIGHTS AND LOCATIONS ARE SHOWN FOR DESIGN INTENT ONLY. CONFIRM FINAL MOUNTING LOCATIONS WITH ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS BEFORE INSTALLATION.
3. COORDINATE CONDUIT, BACK BOXES, FLOOR BOXES, AND POWER REQUIREMENTS WITH ELECTRICAL FOR FINAL INSTALLATION REQUIREMENTS.

KEYED NOTES

1. ROUGH-IN LOCATION FOR FUTURE OWNER-FURNISHED / OWNER-INSTALLED WALL-MOUNTED FLAT PANEL DISPLAY AND MOUNT.
2. ROUGH-IN LOCATION FOR FUTURE OWNER-FURNISHED / OWNER-INSTALLED WALL-MOUNTED SHORT-THROW PROJECTOR.
3. ROUGH-IN LOCATION FOR PRESENTER STATION HDMI CONNECTION.
4. ROUGH-IN LOCATION FOR PRESENTER DEVICE PASS-THROUGH PLATE.

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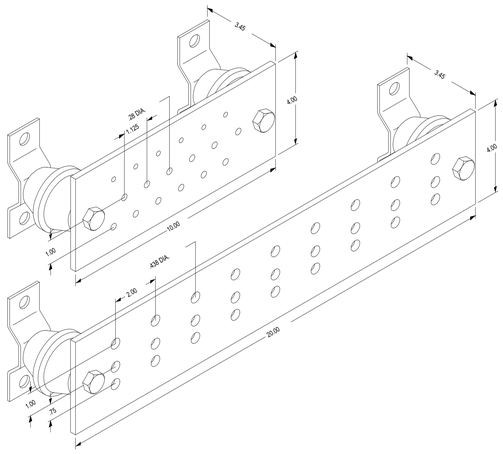
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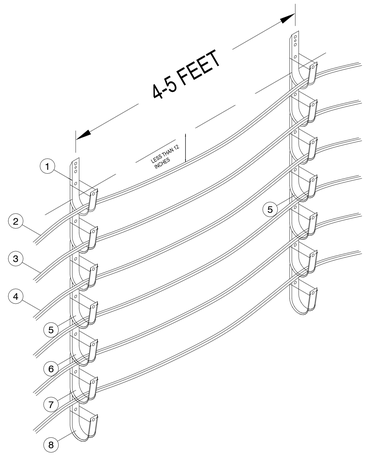
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1 / T4.11 WALL-MOUNTED BUS BAR

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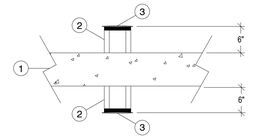


KEYED NOTES:

1. J-HOOK WITH RETAINER CLIP ABOVE ACCESSIBLE CEILING (BY DIV 27).
2. FIBER OPTIC CABLE ABOVE ACCESSIBLE CEILING (BY DIV 27).
3. COPPER BACKBONE ABOVE ACCESSIBLE CEILING (BY DIV 27).
4. VOICE AND DATA CABLE ABOVE ACCESSIBLE CEILING (BY DIV 28).
5. WIRELESS ACCESS POINT ABOVE ACCESSIBLE CEILING (BY DIV 27).
6. SECURITY CABLE ABOVE ACCESSIBLE CEILING (BY DIV 27).
7. FIRE ALARM CABLE ABOVE ACCESSIBLE CEILING (BY OTHER).
8. SPARE J-HOOK (BY DIV 27).

2 / T4.11 TYPICAL J-HOOK CABLE PATHWAY

SCALE: N.T.S.

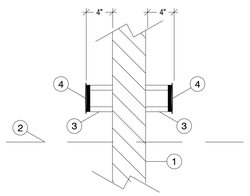


KEYED NOTES:

1. SCHEDULED FLOOR OR DECK.
2. CONDUIT SLEEVE (BY DIV 26).
3. NYLON BUSHING (BY DIV 26).

3 / T4.11 TYPICAL CONDUIT SLEEVE THROUGH FLOOR OR DECK DETAIL

SCALE: N.T.S.

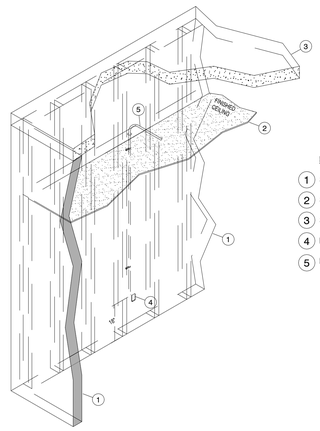


KEYED NOTES:

1. SCHEDULED WALL.
2. SCHEDULED CEILING.
3. CONDUIT SLEEVE (BY DIV 26).
4. NYLON BUSHING (BY DIV 26).

4 / T4.11 TYPICAL CONDUIT SLEEVE GOING THROUGH WALL

SCALE: N.T.S.

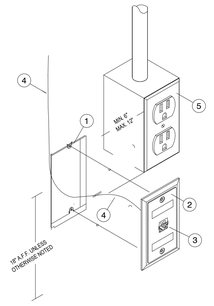


KEYED NOTES:

1. SCHEDULED WALL.
2. SCHEDULED CEILING.
3. SCHEDULED DECK ABOVE.
4. LOW VOLTAGE MOUNTING PLATE WITH 200LB PULL STRING(BY DIV 26).
5. PULL STRING TO CUT-IN / LOW VOLTAGE MOUNTING PLATE

5 / T4.11 TYPICAL TECHNOLOGY ROUGH-IN

SCALE: N.T.S.

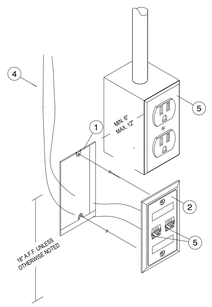


KEYED NOTES:

1. NVENT CADDY MP1P OR EQAUL LOW VOLTAGE MOUNTING PLATE
2. SINGLE GANG WALL PLATE WITH DESIGNATION IN WINDOW (BY DIV 27).
3. DATA INSERT (BY DIV 27).
4. CABLE AS SPECIFIED (BY DIV 27).
5. ELECTRICAL RECEPTACLE, GANG BOX AND CONDUIT SHOWN FOR REFERENCE ONLY (REFER TO DIV 26).

6 / T4.11 TYPICAL SINGLE DATA OUTLET CONFIGURATION

SCALE: N.T.S.

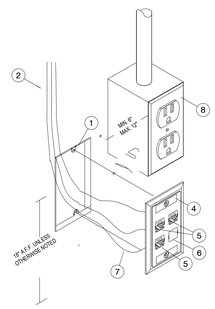


KEYED NOTES:

1. NVENT CADDY MP1P OR EQAUL LOW VOLTAGE MOUNTING PLATE
2. SINGLE GANG WALL PLATE WITH DESIGNATION IN WINDOW (BY DIV 27).
3. DATA INSERT (BY DIV 27).
4. CABLE AS SPECIFIED (BY DIV 27).
5. ELECTRICAL RECEPTACLE, GANG BOX AND CONDUIT SHOWN FOR REFERENCE ONLY (REFER TO DIV 26).

7 / T4.11 TYPICAL DUAL DATA OUTLET CONFIGURATION

SCALE: N.T.S.

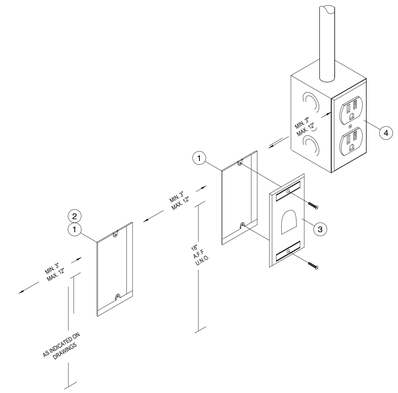


KEYED NOTES:

1. NVENT CADDY MP1P OR EQAUL LOW VOLTAGE MOUNTING PLATE
2. SINGLE GANG WALL PLATE WITH DESIGNATION IN WINDOW (BY DIV 27).
3. DATA INSERT (BY DIV 27).
4. BLANK INSERT (BY DIV 27)
5. CABLE AS SPECIFIED (BY DIV 27).
6. ELECTRICAL RECEPTACLE, GANG BOX AND CONDUIT SHOWN FOR REFERENCE ONLY (REFER TO DIV 26).

8 / T4.11 TYPICAL THREE DATA OUTLET CONFIGURATION

SCALE: N.T.S.



KEYED NOTES:

1. NVENT CADDY MP1P OR EQAUL LOW VOLTAGE MOUNTING PLATE.
2. ADJACENT DATA RECEPTACLE. REFERENCE TECHNOLOGY FLOOR PLANS IF AND WHEN THIS EQUIPMENT IS REQUIRED
3. AUDIOVISUAL SYSTEM PASS THRU FACEPLATE, SEMTRON OR EQUAL
4. ADJACENT ELECTRICAL RECEPTACLE, GANG BOX AND CONDUIT SHOWN FOR REFERENCE ONLY (REFER TO DIV 26).

9 / T4.11 TYPICAL AUDIOVISUAL ROUGH-IN

SCALE: N.T.S.

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EXPIRES 12-31-26
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RCDD
05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

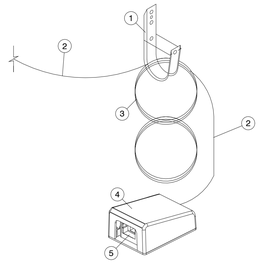
Director
Proj. Arch.
Designer CCG
Drawn By CCG

PROJECT NO.
25-0067.00

SHEET TITLE
TECHNOLOGY TYPICAL DETAILS

SHEET NO.
T4.11

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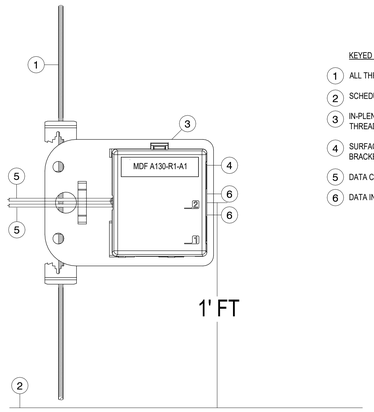


KEYED NOTES:

1. J-HOOK WITH RETAINER CLIP ABOVE ACCESSIBLE CEILING (BY DIV 27).
2. DATA CABLE ABOVE ACCESSIBLE CEILING (BY DIV 27).
3. FIGURE EIGHT SERVICE LOOP ABOVE ACCESSIBLE CEILING NEATLY COILED AND SECURED TO J-HOOK (BY DIV 27).
4. SURFACE MOUNT BOX ABOVE ACCESSIBLE CEILING SECURED TO BUILDING STRUCTURE, NOT MORE THAN 1' ABOVE CEILING GRID (BY DIV 27).
5. DATA INSERT (BY DIV 27).

1 / T4.12 TYPICAL ABOVE CEILING SINGLE DATA OUTLET

SCALE: N.T.S.

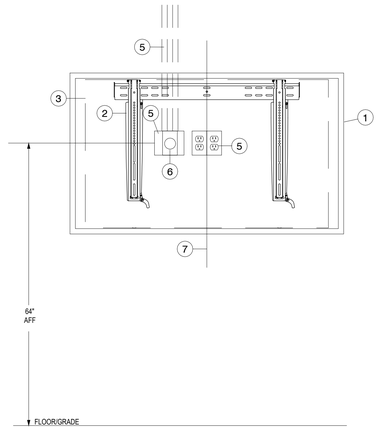


KEYED NOTES:

1. ALL THREAD TO BUILDING STRUCTURE (BY DIV. 27)
2. SCHEDULING CEILING
3. IN-PLENUM CEILING BRACKET PN 49223-CBC ATTACHED TO ALL THREAD (BY DIV. 27)
4. SURFACE MOUNT BOX ABOVE ACCESSIBLE CEILING SECURED TO BRACKET (BY DIV. 27)
5. DATA CABLE (BY DIV. 27)
6. DATA INSERT (BY DIV. 27)

2 / T4.12 TYPICAL ABOVE CEILING DATA OUTLET

SCALE: N.T.S.



KEYED NOTES:

1. OWNER FURNISHED OWNER INSTALLED INTERACTIVE PANEL DISPLAY.
2. OWNER FURNISHED OWNER INSTALLED FLAT PANEL DISPLAY MOUNTING BRACKET -
3. IN-WALL BLOCKING FOR FLAT PANEL MOUNTING. BLOCKING TO BE PRESENT ON ALL SIDES OF RECESSED BACK BOX. REFERENCE ARCHITECTURAL DRAWINGS FOR BLOCKING INFORMATION
4. ELECTRICAL POWER RECEPTACLE, REFERENCE ELECTRICAL DRAWINGS FOR OUTLET TYPE (BY DIV26)
5. DUAL GANG BACK BOX WITH SINGLE GANG REDUCING MUD RING. PROVIDE (2) 1-.25 CONDUITS TO ACCESSIBLE CEILING (BY DIV 26).
6. PROVIDE SINGLE GANG AV PASS THROUGH FACEPLATE FOR AV CABLING (BY DIV27)
7. CENTER LINE OF DISPLAY

3 / T4.12 TYPE IPD TYPICAL WALL-MOUNTED INTERACTIVE PANEL DISPLAY

SCALE: N.T.S.

KEYED NOTES:

1. 4 11/16-INCH x 4 11/16-INCH x 2 1/8-INCH RECESSED DOUBLE GANG BOX (BY DIV 26).
2. 1-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF OF A MAIN CORRIDOR. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF/IDF ROOM TO MINIMIZE THE CABLE LENGTH (BY DIV 26).
3. SINGLE GANG REDUCER RING (BY DIV 26).
4. SINGLE GANG WALL PLATE WITH DESIGNATION IN WINDOW (BY DIV 27).
5. DATA INSERT (BY DIV 27).
6. CABLE AS SPECIFIED (BY DIV 27).
7. ELECTRICAL RECEPTACLE, GANG BOX AND CONDUIT SHOWN FOR REFERENCE ONLY (REFER TO DIV 26).

4 / T4.12 TYPICAL FOUR DATA OUTLET CONFIGURATION

SCALE: N.T.S.

KEYED NOTES:

1. CEILING DECK AS SCHEDULED.
2. EXTERIOR WALL AS SCHEDULED.
3. LAY-IN CEILING AS SCHEDULED.
4. 4 11/16-INCH x 4 11/16-INCH x 2 1/8-INCH SURFACE MOUNTED DOUBLE GANG BOX (BY DIV 26).
5. 1-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING (BY DIV 26).
6. DOUBLE GANG PLASTER RING (BY DIV 26).
7. PATCH CORD AS SPECIFIED. ALL EXTERNAL DATA, WIRELESS ACCESS POINT AND CAMERAS ARE TO BE OSP RATED PATCH CABLE.
8. SURFACE MOUNT BOX ABOVE ACCESSIBLE CEILING SECURED TO BUILDING STRUCTURE, NOT MORE THAN 1' ABOVE CEILING GRID (BY DIV 27).
9. 20 FOOT SERVICE LOOP ABOVE ACCESSIBLE CEILING NEATLY COILED AND SECURED TO J-HOOK (BY DIV 27).
10. J-HOOK ABOVE ACCESSIBLE CEILING (BY DIV 27).
11. DATA CABLE ABOVE ACCESSIBLE CEILING (BY DIV 27).

5 / T4.12 TYPICAL EXTERIOR WALL MOUNTED WIRELESS ACCESS POINT OR CAMERA

SCALE: N.T.S.

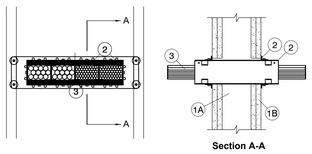
KEYED NOTES:

1. GROUNDING BUSHING (BY DIV 26).
2. #6 GROUND WIRE TO TMGB/TGB (BY DIV 26).
3. 4-INCH RIGID STEEL CONDUIT WRAPPED WITH PASCO PROTECTIVE TAPE SYSTEM (BY DIV 26)
4. PVC FEMALE ADAPTER (BY DIV 26).
5. SCHEDULE 80 PVC (BY DIV 26).

6 / T4.12 TYPICAL TECHNOLOGY DUCT ENTRY INTO BUILDING

SCALE: N.T.S.

System No. W-L-3218
F Ratings - 1, 2, 3 and 4 Hr (See Items 1 and 3)
T Ratings - 3/4 and 1 Hr (See Item 3)
L Rating At Ambient - Less Than 1, 1.3, 4 or 7 CFM (See Item 3)
L Rating At 400 F - Less Than 1, 2 or 3 CFM (See Item 3)



Section A-A

1. Wall Assembly - The 1, 2, 3 or 4 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described within the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:
   A. Studs - Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* - Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Opening in gypsum board to be max 1/4 in. (6 mm) larger then width and height dimensions of firestop device(s).

   The hourly F Rating of the firestop system is dependent upon the hourly rating of the wall in which it is installed.
2. Firestop Device* - One, two, three, four or seven firestop device modules ganged together. Each firestop device module consists of a 3 by 3 by 10-1/2 in. (76 by 76 by 267 mm) long galv steel tube with an intumescent material lining. Firestop device modules to be installed in accordance with the accompanying installation instructions. The space between the firestop device module(s) and the periphery of the opening shall be min 0 in. (0 mm, point contact) to max 1/8 in. (3.2 mm). In round openings, the space between the firestop device and the periphery of the opening shall be min 0 in. (point contact) to max 1/2 in. (13 mm). Firestop device module(s) secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device by means of steel set screws provided with device. Each four- and seven-gang steel wall plate shall be fastened to the studs with steel screws sized to extend through the gypsum board layers and penetrate 1/2 in. (13 mm) into the framing member. Each firestop device module is to be installed with ends projecting an equal distance beyond each surface of the wall assembly.

   As an alternate, the four- and seven-gang steel wall plates may be installed directly against the studs for walls having 16 and 24 in. (406 and 610 mm) center-to-center stud spacing, respectively, prior to installation of the gypsum board layers. The steel wall plates shall be secured to the stud by means of steel screws. After installation of the steel wall plates and firestop device modules, the gypsum board shall be installed as specified in the individual U300 or U400 Design with a maximum 1/8 in. (3.2 mm) gap between the firestop device module and the cutout in the gypsum board. Gap between the firestop device module and the cutout in the gypsum board may be filled with gypsum joint compound or fill material (Item 4).

   SPECIFIED TECHNOLOGIES INC - EZ PATH Series 33 Fire Rated Pathway

2A. Firestop Device* - Extension Module - (Optional, Not Shown) - Module attached to ends of 3 by 3 by 10-1/2 in. (76 by 76 by 267 mm) long firestop device (Item 3) to increase its length to facilitate installation in thicker walls. Each module consists of a 3 by 3 by 6 in. (76 by 76 by 152 mm) long galv steel tube with an intumescent material lining. Extension module to be installed in accordance with the accompanying installation instructions. When module is used, firestop device (Item 2) and extension module(s) secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device or extension module(s) by means of steel set screws provided with wall plates. Firestop device and extension module(s) assembly to be installed with ends projecting an equal distance beyond each surface of the wall assembly.

   SPECIFIED TECHNOLOGIES INC - EZ PATH Extension

3. Cables - Within the loading area for each firestop device module, the cables may represent a 0 to 100 percent visual fill. Cable fill to be distributed at a uniform height across the width of the firestop device module. Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types of cables may be used:
   A. Max 400 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) jacketing and insulation.
   B. Max 350 kcmil single copper conductor power cable with XLPE jacket and insulation
   C. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
   D. Max 3/C No. 10 AWG metal clad or armored cable with steel or aluminum jacket.
   E. Max 3/C No. 8 AWG NM cable (Romex) with PVC insulation and jacket.
   F. Max four pair No. 22 AWG (or smaller) copper conductor data cable with PVC or plenum rated jacketing and insulation.
   G. Max RG/U coaxial cable with fluorinated ethylene insulation and jacketing.
   H. Fiber optic cable with PVC or polyethylene (PE) jacket and insulation having a max diam of 5/8 in. (16 mm).
   I. Optical Fiber Raceway+ - Max 1-1/2 in. (38 mm) diam (or smaller) optical fiber raceway ("innerduct") formed of either PVC or polyvinylidene fluoride (PVDF) with optical fiber cable fill. Raceways installed in accordance with the National Electrical Code (NFPA 70).

   When the hourly rating of the wall assembly is 1 hr, the T Rating is 3/4 hr. When the hourly fire rating of the wall assembly is greater than 1 hr, the T Rating is 3/4 hr when Item 3A, 3B, 3C, 3D or 3E is used. Otherwise the T Rating is 1 hr. When Item 3A, 3B, 3C, 3D or 3E is used, the maximum F Rating is 2 hr. When max 200 pair No. 24 AWG telecommunication cable is used or when Item 3F, 3G, 3H or 3I is used, the maximum F Rating is 4 hr.

   The L Rating for each empty firestop device module is less than 1 cfm at ambient and at 400F. When Item 3A is used, the L Rating for each firestop device module with 100 percent visual fill is 4 cfm at ambient and 3 cfm at 400F. When Item 3F is used, the L Rating for each firestop device module with 100 percent visual fill is 1.3 cfm at ambient and 1 cfm at 400F. When Item 3G or 3H is used, the L Rating for each firestop device module with 100 percent visual fill is 7 cfm at ambient and 2 cfm at 400F.
4. Fill, Void or Cavity Material* - Sealant or Putty - (Not Shown) - As an alternate to gypsum joint compound, the gap between the firestop device module and the cutout in the gypsum board may be sealed with fill material on each side of the wall assembly when four- and seven-gang steel wall plates are installed directly against the wood or steel studs.

   SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant, SpecSeal LCI Sealant, SpecSeal Putty

   *Bearing the UL Classification Mark

7 / T4.12 TYPICAL STI EZ-PATH SLEEVE DETAIL

SCALE: N.T.S.

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Anthony Vistein
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EXPIRES 12-31-26
RCDD
05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

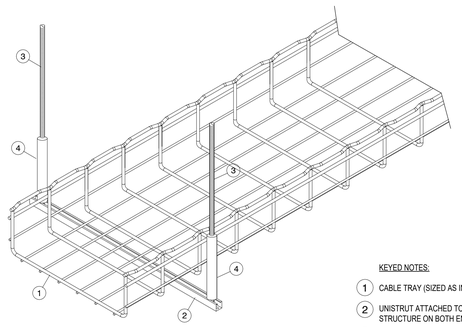
Director
Proj. Arch.
Designer CCG
Drawn By CCG

PROJECT NO.
25-0067.00

SHEET TITLE
TECHNOLOGY TYPICAL DETAILS

SHEET NO.
T4.12

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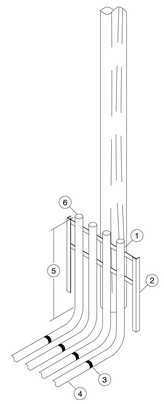


KEYED NOTES:

1. CABLE TRAY (SIZED AS INDICATED ON DRAWINGS) (BY DIV 26).
2. UNISTRUT ATTACHED TO CABLE TRAY AND SECURED TO STRUCTURE ON BOTH ENDS (BY DIV 26).
3. ALL THREAD TO BUILDING STRUCTURE (BY DIV 26).
4. THREADED ROD PROTECTOR (BY DIV 26).

1 / T4.13 TYPICAL ABOVE CEILING CABLE TRAY DETAIL

SCALE: N.T.S.

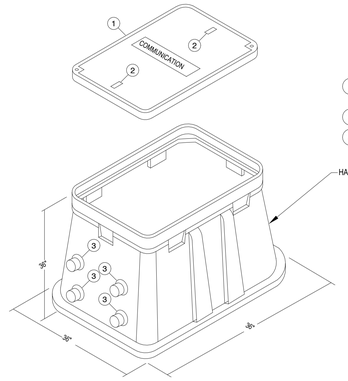


KEYED NOTES:

1. 4-INCH RIGID STEEL CONDUIT WRAPPED WITH PASCO PROTECTIVE TAPE SYSTEM (BY DIV 26).
2. UNISTRUT RACKING CONSTRUCTED IN FIELD (BY DIV 26).
3. PVC FEMALE ADAPTER (BY DIV 26).
4. 4-INCH SCHEDULE 80 PVC CONDUIT (BY DIV 26).
5. 4-INCH RIGID STEEL CONDUIT SHALL BE EXTENDED 36 INCHES ABOVE GRADE (BY DIV 26).
6. CONDUITS SHALL BE CAPPED AND SEALED TO PREVENT MOISTURE AND DEBRIS FROM ENTERING CONDUITS (BY DIV 26).

2 / T4.13 TYPICAL POLE RISER

SCALE: N.T.S.



KEYED NOTES:

1. COVER RATED (POLYMER CONCRETE) FOR ENVIRONMENT WITH "FORT BEND ISD TELECOMMUNICATIONS" STENCILED ON TOP (BY DIV. 26)
2. LIFTING EYE (BY DIV 26).
3. 4-INCH TERMINATOR (BY DIV 26).

3 / T4.13 TYPICAL TECHNOLOGY HANDHOLES (HH)

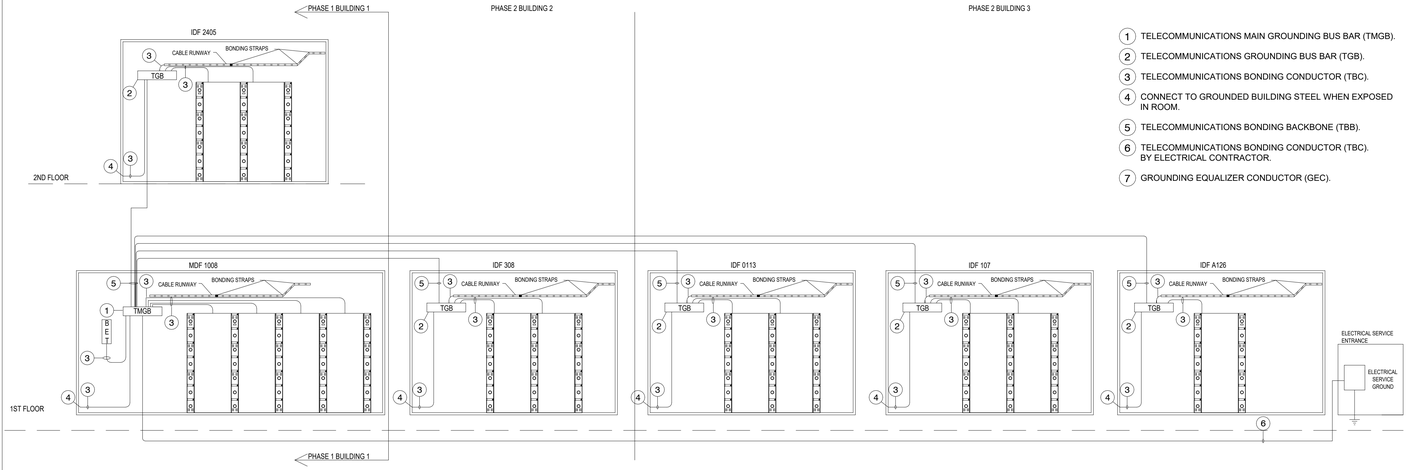
SCALE: N.T.S.

TBB/GE CONDUCTOR SIZING	
LENGTH IN LINEAR M (FT)	SIZE (AWG)
LESS THAN 4 (13)	6
4 - 6 (14-20)	4
6 - 8 (21 - 26)	3
8 - 10 (27 - 33)	2
10 - 13 (34 - 41)	1
13 - 16 (42 - 52)	1/0
16 - 20 (53 - 66)	2/0
20 - 26 (67 - 84)	3/0
26 - 32 (85 - 105)	4/0
32 - 38 (106 - 125)	250 kcmil
38 - 46 (126 - 150)	300 kcmil
46 - 53 (151 - 175)	350 kcmil
53 - 76 (176 - 250)	500 kcmil
76 - 91 (251 - 300)	600 kcmil
GREATER THAN 91 (301)	750 kcmil

ROUTE THE TBB TO EACH TGB IN AS STRAIGHT A PATH AS POSSIBLE. THE TBB SHOULD BE INSTALLED AS A CONTINUOUS CONDUCTOR, AVOIDING SPLICES WHERE POSSIBLE.

4 / T4.13 TBB CONDUCTOR SIZING

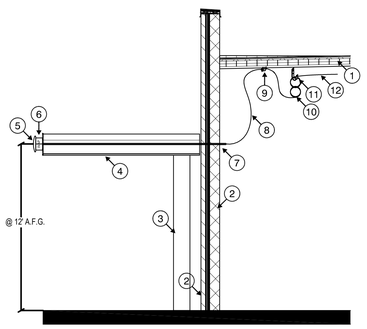
SCALE: N.T.S.



1. TELECOMMUNICATIONS MAIN GROUNDING BUS BAR (TMGB).
2. TELECOMMUNICATIONS GROUNDING BUS BAR (TGB).
3. TELECOMMUNICATIONS BONDING CONDUCTOR (TBC).
4. CONNECT TO GROUNDED BUILDING STEEL WHEN EXPOSED IN ROOM.
5. TELECOMMUNICATIONS BONDING BACKBONE (TBB).
6. TELECOMMUNICATIONS BONDING CONDUCTOR (TBC), BY ELECTRICAL CONTRACTOR.
7. GROUNDING EQUALIZER CONDUCTOR (GEC).

5 / T4.13 GROUNDING RISER DIAGRAM

SCALE: N.T.S.



KEYED NOTES:

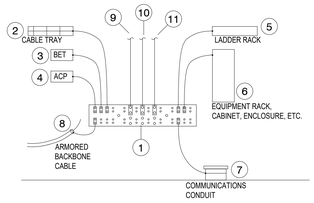
1. CEILING DECK AS SCHEDULED.
2. EXTERIOR WALL AS SCHEDULED.
3. CANOPY POLE AS SCHEDULED.
4. CANOPY AS SCHEDULED.
5. EXTERIOR WIRELESS ACCESS POINT. (OF/OI)
6. 4 11/16-INCH X 4 11/16-INCH X 2 1/8-INCH RECESSED DOUBLE GANG BOX WITH WEATHERPROOF BACKBOX. (BY DIV 26).
7. 1-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING. (BY DIV 26).
8. PATCH CORD AS SPECIFIED. ALL EXTERNAL DATA, WIRELESS ACCESS POINT AND CAMERAS TO BE OSP RATED PATCH CABLE.
9. SURFACE MOUNT BOX ABOVE ACCESSIBLE CEILING SECURED TO BUILDING STRUCTURE. (BY DIV 27).
10. 20 FOOT SERVICE LOOP ABOVE ACCESSIBLE CEILING NEATLY COILED AND SECURED TO J-HOOK. (BY DIV 27).
11. J-HOOK ABOVE ACCESSIBLE CEILING. (BY DIV 27).
12. DATA CABLE ABOVE ACCESSIBLE CEILING. (BY DIV 27).

6 / T4.13 MOUNTED WIRELESS ACCESS TYPICAL EXTERIOR CANOPY

SCALE: N.T.S.

GENERAL NOTES:

1. MAKE ALL BONDING CONNECTIONS WITH TWO-HOLE COMPRESSION LUGS.
2. SIZE ALL BONDING CONDUCTORS PER TELECOM BONDING CONDUCTOR SIZING TABLE.
3. THIS IS A TYPICAL DETAIL, NOT ALL EQUIPMENT REQUIRING BONDING MAY BE PRESENT IN EACH TELECOM ROOM.

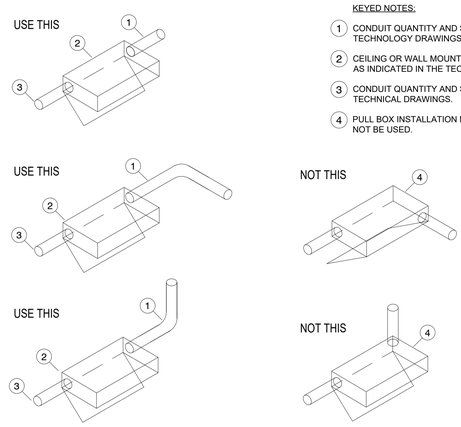


KEYED NOTES:

1. TELECOMMUNICATIONS GROUNDING BUSBAR WITH BICSI STYLE HOLE PATTERN, SIZED PER [DRAWINGS/SPECIFICATIONS] (BY DIV 27).
2. BOND TO CABLE TRAY IN CORRIDOR. (BY DIV 26)
3. BOND TO BUILDING ENTRANCE TERMINALS AND PROTECTORS. (BY DIV 27)
4. BOND TO ACCESS CONTROL PANELS AND OTHER SECURITY ENCLOSURES. (BY DIV 28)
5. BOND TO OVERHEAD LADDER RACK; ENSURE ALL LADDER RACK SECTIONS ARE BONDED TOGETHER. (BY DIV 27)
6. BOND TO EACH EQUIPMENT RACK, CABINET, ENCLOSURE, ETC. (BY DIV 27)
7. BOND TO EACH CONTINUOUS COMMUNICATIONS CONDUIT THAT ENTERS THE TELECOM ROOM. (SLEEVES DO NOT NEED TO BE BONDED). (BY DIV 26)
8. BOND TO EACH ARMORED BACKBONE CABLE THAT TERMINATES IN THE TELECOM ROOM. (BY DIV 27)
9. FOR TELECOMMUNICATIONS MAIN GROUNDING BUSBAR, PROVIDE BONDING CONDUCTOR FOR TELECOMMUNICATIONS TO MAIN ELECTRICAL GROUND. (BY DIV 26)
10. FOR TELECOMMUNICATIONS GROUNDING BUSBARS ONLY: BONDING CONDUCTOR TO [BUILDING STEEL] [TELECOMMUNICATIONS BONDING BACKBONE] [GROUND BUS OF ELECTRICAL PANEL SERVING TELECOM ROOM POWER]. (BY DIV 26)
11. [FOR TELECOMMUNICATIONS MAIN GROUNDING BUSBAR, PROVIDE TELECOMMUNICATIONS BONDING BACKBONE PER TYPICAL GROUNDING DIAGRAM.] (BY DIV 26)

8 / T4.13 TELECOMMUNICATIONS BONDING BUSBAR DETAIL

SCALE: N.T.S.



KEYED NOTES:

1. CONDUIT QUANTITY AND SIZE AS INDICATED IN THE TECHNOLOGY DRAWINGS.
2. CEILING OR WALL MOUNTED PULL BOX WITH LOCKING COVER AS INDICATED IN THE TECHNOLOGY DRAWINGS.
3. CONDUIT QUANTITY AND SIZE AND INDICATED IN THE TECHNICAL DRAWINGS.
4. PULL BOX INSTALLATION MEANS AND METHODS THAT SHALL NOT BE USED.

9 / T4.13 TYPICAL PULL BOX ENTRANCE POINT MEANS AND METHODS DETAIL

SCALE: N.T.S.

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Anthony Vistein
BICSI ID # 203153
EXPIRES 12-31-26
RCDD
05/26/2026

ISSUED: May 26, 2026

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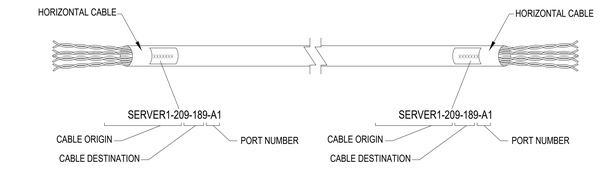
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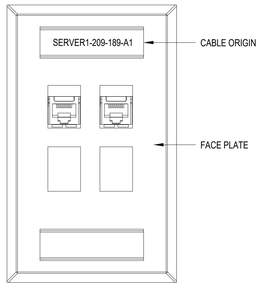
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SHEET TITLE
TECHNOLOGY TYPICAL DETAILS

SHEET NO.
T4.13

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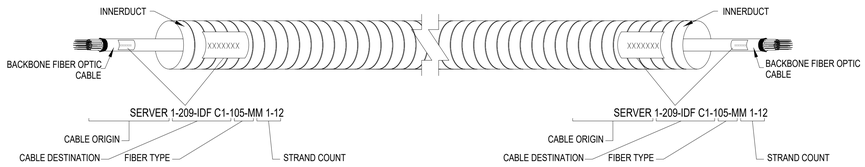


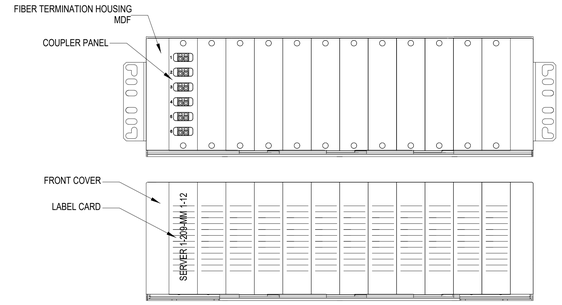


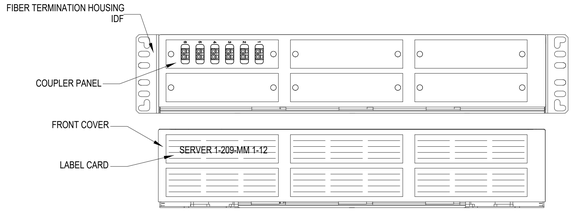


1 T5.11 TYPICAL HORIZONTAL DATA CABLE LABELING SCHEME

SCALE: N.T.S.

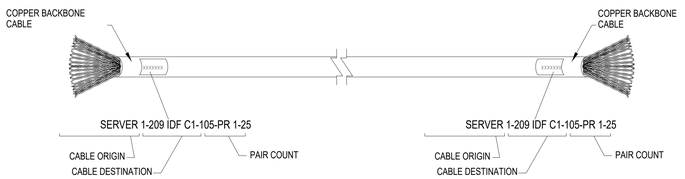






2 T5.11 TYPICAL FIBER BACKBONE LABELING SCHEME

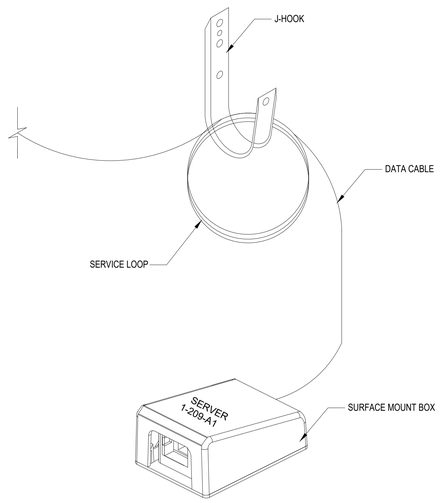
SCALE: N.T.S.





3 T5.11 TYPICAL COPPER BACKBONE LABELING SCHEME

SCALE: N.T.S.



4 T5.11 ABOVE ACCESSIBLE CEILING LABELING SCHEME

SCALE: N.T.S.

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TECHNOLOGY TYPICAL LABELING SCHEME

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PUBLIC ADDRESS SYMBOLS & LEGEND

PUBLIC ADDRESS SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO CENTERLINE	BACK BOX	CONDUIT SIZE
ACP	AUDIOVISUAL CONTROL PROCESSOR	RACK, AV WALL BOX, WALL MOUNTED	N/A	1" CONDUIT TO ACCESSIBLE CEILING
AMP	SPEAKER AMPLIFIER	RACK, AV WALL BOX, WALL MOUNTED	N/A	N/A
ALS	ASSISTED LISTENING SYSTEM	SURFACE CEILING MOUNTED	2-GANG	1" CONDUIT TO ACCESSIBLE CEILING
AT#	CEILING-MOUNTED ANTENNA, # = TYPE AS SPECIFIED	PER DRAWINGS	2-GANG	1" CONDUIT TO ACCESSIBLE CEILING
AT#	WALL-MOUNTED ANTENNA, # = TYPE AS SPECIFIED	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
AV#	AV DEVICE	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
BT	BLUETOOTH RECEIVER	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
C	CEILING-MOUNTED CLOCK.	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
C	WALL-MOUNTED CLOCK.	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
C D	DOUBLE-SIDED WALL-MOUNTED CLOCK.	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
CAM	CEILING-MOUNTED AUDIOVISUAL CAMERA	SURFACE CEILING MOUNTED	2-GANG	1.25" CONDUIT TO ACCESSIBLE CEILING
CAM	WALL-MOUNTED AUDIOVISUAL CAMERA	PER DRAWINGS	1-GANG	1.25" CONDUIT TO ACCESSIBLE CEILING
CB	WALL-MOUNTED CALL BUTTON	PER DRAWINGS	1-GANG	1" CONDUIT TO ACCESSIBLE CEILING
CE	CEILING MOUNTED EQUIPMENT ENCLOSURE	FLUSH CEILING MOUNTED	2-GANG ELECTRICAL 2-GANG DATA 2-GANG AV	1.5" AV CONDUIT TO ACCESSIBLE CEILING
CP#	WALL OR TABLE TOP MOUNTED CONTROL PANEL, # = TYPE AS SPECIFIED	WALL MOUNTED 48" ABOVE FINISHED FLOOR	WILL VARY PER PROJECT OR TYPE	1" CONDUIT TO ACCESSIBLE CEILING
CTV	CATV LOCATION, CABLE TYPE AND TERMINATION AS SPECIFIED	PER DRAWINGS	2-GANG	1" CONDUIT TO ACCESSIBLE CEILING
DA	DISTRIBUTION AMPLIFIER	RACK OR AV WALL BOX MOUNTED.	N/A	N/A
DS	DIGITAL SIGNAGE PLAYER	RACK OR AV WALL BOX MOUNTED.	N/A	N/A
DSP	AUDIO DIGITAL SIGNAL PROCESSOR	RACK OR AV WALL BOX MOUNTED.	N/A	N/A
EQ#	EQUIPMENT RACK, # = TYPE AS SPECIFIED	PER DRAWINGS /PER SPECS	N/A	N/A
FB#	FLOOR BOX, # = TYPE AS SPECIFIED	PER DRAWINGS	2-GANG ELECTRICAL 2-GANG DATA 2-GANG AV	1.5" AV CONDUIT TO ACCESSIBLE CEILING
IPE	IP ENCODER	RACK OR AV WALL BOX MOUNTED.	N/A	N/A
IPD	IP DECODER	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
L	LECTERN / PODIUM	FLUSH CEILING MOUNTED	N/A	1" CONDUIT TO ACCESSIBLE CEILING
MC#	CEILING-MOUNTED MICROPHONE, # = TYPE AS SPECIFIED	PER DRAWINGS	1-GANG	1" CONDUIT TO ACCESSIBLE CEILING
MC#	WALL-MOUNTED OR TABLETOP MOUNTED MICROPHONE, # = TYPE AS SPECIFIED	PER DRAWINGS	2-GANG	1" CONDUIT TO ACCESSIBLE CEILING
MCT	MOBILE CART	N/A	N/A	N/A
MM#	CEILING-MOUNTED MULTIMEDIA PLATE, # = TYPE AS SPECIFIED	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
MM#	WALL-MOUNTED MULTIMEDIA PLATE, # = TYPE AS SPECIFIED	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
OS	CEILING-MOUNTED OCCUPANCY SENSOR	SURFACE CEILING MOUNTED	1-GANG	1" CONDUIT TO ACCESSIBLE CEILING
OS	WALL-MOUNTED OCCUPANCY SENSOR	PER DRAWINGS	1-GANG	1" CONDUIT TO ACCESSIBLE CEILING
PS	CEILING-MOUNTED PARTITION SENSOR	SURFACE CEILING MOUNTED	1-GANG	1" CONDUIT TO ACCESSIBLE CEILING
P#	PROJECTOR, # = TYPE AS SPECIFIED	PER DRAWINGS	N/A	N/A
R	WALL-MOUNTED ROUGH-IN LOCATION	18" ABOVE FINISHED FLOOR OR PER DRAWINGS	2-GANG OF PER DRAWINGS	1" CONDUIT TO ACCESSIBLE CEILING
RS	ROOM SCHEDULER	48" ABOVE FINISHED FLOOR	3-GANG OR PER MANUFACTURER	1" CONDUIT TO ACCESSIBLE CEILING

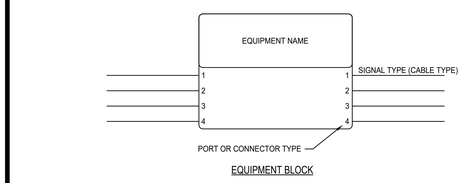
PUBLIC ADDRESS SYMBOLS - CONTINUED

SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO CENTERLINE	BACK BOX	CONDUIT SIZE
RX#	AUDIOVISUAL RECEIVER	PER DRAWINGS	N/A	N/A
S#	CEILING-MOUNTED SPEAKER, # = TYPE AS SPECIFIED	SURFACE CEILING MOUNTED	1-GANG	1" CONDUIT TO ACCESSIBLE CEILING
S#	WALL-MOUNTED SPEAKER, # = TYPE AS SPECIFIED	PER DRAWINGS	1-GANG	1" CONDUIT TO ACCESSIBLE CEILING
SB	SOUND BAR.	PER DRAWINGS	N/A	N/A
SBC	INTEGRATED SOUND BAR WITH CAMERA AND MICROPHONE.	PER DRAWINGS	N/A	N/A
TC	TABLETOP CABLE CUBBY.	N/A	N/A	N/A
TX#	AUDIOVISUAL TRANSMITTER.	18" A.F.F. OR PER DRAWINGS	2-GANG	1" CONDUIT TO ACCESSIBLE CEILING
VC	WALL-MOUNTED VOLUME CONTROL.	48" A.F.F. OR PER DRAWINGS	1-GANG	1" CONDUIT TO ACCESSIBLE CEILING
VCC	VIDEO CONFERENCING COMPUTER.	RACK OR AV WALL BOX MOUNTED.	N/A	N/A
WB#	AUDIOVISUAL WALL BOX, # = TYPE AS SPECIFICED	PER DRAWINGS	2-GANG ELECTRICAL 2-GANG DATA 2-GANG AV	N/A
WP	WIRELESS PRESENTATION.	RACK OR AV WALL BOX MOUNTED.	N/A	N/A
FPD#	FLAT PANEL DISPAY, # = DISPLAY SIZE	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
IFP#	INTERACTIVE FLAT PANEL, # = DISPLAY SIZE	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
SCR#	PROJECTION SCREEN, # = DISPLAY SIZE	PER DRAWINGS	2 - GANG ELECTRICAL 2 - GANG AV	1" CONDUIT TO ACCESSIBLE CEILING
VW#	VIDEO WALL, # = DISPLAY SIZE	PER DRAWINGS	PER DRAWINGS	PER DRAWINGS
	DEVICE CONDUIT ABOVE CEILING.	N/A	N/A	N/A
	DEVICE CONDUIT BELOW FLOOR.	N/A	N/A	N/A

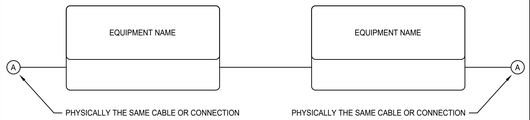
GENERAL SYMBOLS

# SHEET DRAWING TITLE SCALE: SCALE	DRAWING TITLE CALLOUT, # = DETAIL NUMBER.
# SHEET	DETAIL CALLOUT, # = DETAIL NUMBER.
# SHEET	SECTION CALLOUT, # = DETAIL NUMBER.
1 TA-302	ELEVATION CALLOUT, # = DETAIL NUMBER.
#	KEYED NOTE, # = KEYED NOTE NUMBER.
#	REVISION TRIANGLE, # = REVISION NUMBER (PER SHEET).
TR (IDF XXX)	INDICATES TELECOMMUNICATIONS REGION.

PUBLIC ADDRESS SIGNAL FLOW SYMBOLS



EQUIPMENT BLOCK



ON-PAGE EQUIPMENT LEADER

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
AER	AERIAL
BYOD	BRING YOUR OWN DEVICE
CATV	COMMUNITY ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CL	CENTERLINE
CLT	CLOSET
EMT	ELECTRIC METALLIC TUBE
F.O.C.	FIBER OPTIC CABLE
HE	PA/INTERCOM HEAD-END
ISP	INSIDE CABLE PLANT
IDF	INTERMEDIATE DISTRIBUTION FRAME
MDF	MAIN DISTRIBUTION FRAME
MM	MULTIMODE
OSP	OUTSIDE CABLE PLANT
PB	PULLBOX
PR	PAIR
PVC	POLYVINYL CHLORIDE
SM	SINGLE MODE
STP	SHIELDED TWISTED PAIR
TB	TERMINAL BLOCK
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
OFOI	OWNER FURNISHED/OWNER INSTALLED
OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
CFCI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED

NOTES

SYMBOLS & LEGEND SHEET

1. CONTRACTOR SHALL REVIEW DRAWINGS AND SPECIFICATIONS THAT MAKE UP THE CONTRACT DOCUMENTS AND COMPLETE ALL WORK INCLUDED THEREIN.
2. SCALE OF AUDIOVISUAL DRAWINGS IS PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER CABLE LENGTHS, SIZE OF PATHWAYS, DIMENSIONS, ETC.
3. AUDIOVISUAL DRAWINGS SHALL BE USED TO COMPLEMENT THE WRITTEN SPECIFICATIONS.
4. ANY DISCREPANCY OR CONFLICT WITHIN OR BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGN CONSULTANT. DISCREPANCIES OR CONFLICTS NOT BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGN CONSULTANT AND SUBSEQUENTLY CLARIFIED DURING THE BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN BID OR PROPOSED IN THE MORE COSTLY OR DIFFICULT MANNER, AND THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE ARCHITECT'S/DESIGN CONSULTANT'S INTERPRETATION.
5. IN THE EVENT OF A DISCREPANCY BETWEEN THE AUDIOVISUAL DRAWINGS AND SPECIFICATIONS THE GREATER QUANTITY AND COST SHALL BE UTILIZED.
6. CONFIRM MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
7. THE CENTERLINE OF DEVICE INSTALL LOCATIONS ARE FOR REFERENCE AND DESIGN INTENT. CONFIRM WITH ARCHITECT, OWNER, AND FIELD CONDITIONS.
8. ALL DISPLAYS OR WALL MOUNTED DEVICES SHALL BE WITHIN ADA REQUIREMENTS. CONTRACTOR SHALL IDENTIFY ANY NON-COMPLIANT DEVICES AND BRING TO THE ATTENTION OF THE ARCHITECT AND CONSULTANT.

INDEX OF DRAWINGS

TPA0.00 PUBLIC ADDRESS SYMBOLS & LEGEND
TPA2.11 PUBLIC ADDRESS ORIENTATION PLAN - LEVEL ONE
TPA2.12 PUBLIC ADDRESS PLATFORM FLOOR PLAN
TPA4.11 PUBLIC ADDRESS TYPICAL DETAILS

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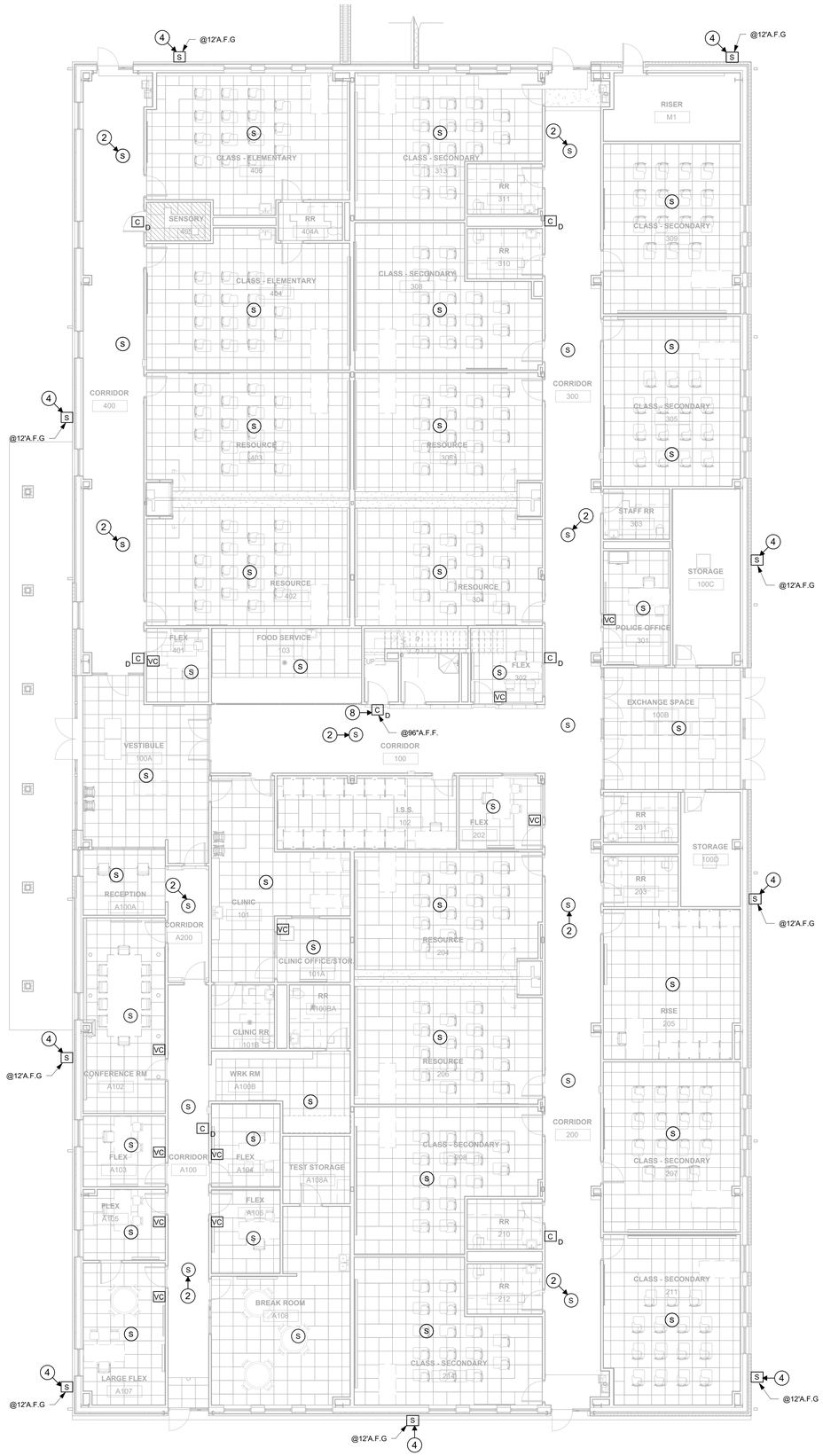
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2. ZONE 2-CONTRACTOR SHALL CONNECT ALL SECONDARY SPEAKERS ON THERE OWN ZONE (BY DIV. 27)
3. ZONE 3-CONTRACTOR SHALL CONNECT ALL INTERIOR SPEAKERS ON THERE OWN ZONE (BY DIV. 27)
4. ZONE 4-CONTRACTOR SHALL CONNECT ALL EXTERIOR SPEAKERS ON THERE OWN ZONE (BY DIV. 27)
5. ZONE 5 - CONTRACTOR SHALL PROVIDE ALL CALL PAGING FOR ZONES FOR ZONES 1,2,3,4 AND 5.



1 PUBLIC ADDRESS ORIENTATION PLAN - LEVEL ONE
TPA2.11 1/8" = 1'-0"

TPA GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL WALL-MOUNTED ROUGH-IN LOCATIONS AND DEVICE INSTALLATIONS IN CORRIDORS AND ROOMS WITH THE ARCHITECTURAL WALL PANELS AND ACOUSTICAL FEATURES. COORDINATION MUST BE COMPLETED WITH THE ARCHITECT PRIOR TO ANY ROUGH-IN OR INSTALLATION WORK.
2. CONTRACTOR SHALL CONDUCT A MANDATORY SITE TOUR TO REVIEW THE EXISTING CONDITIONS, PATHWAYS AND PAGING HEADEND PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL PROVIDE THE PAGING OVERRIDE TO THE AUDIO-VISUAL CLASSROOM SPEAKER AS REQUIRED. (BY DIV 27)
4. ALL CONDUITS FOR PAGING DEVICES SHALL ROUTE FROM THE DEVICE LOCATION AND TERMINATE ABOVE A LAY- IN TYPE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE A LAY-IN TYPE CEILING TO PREVENT THE CABLES FROM BEING EXPOSED, THE CONDUIT SHALL ROUTE TO THE NEAREST LAY-IN TYPE CEILING OFF A MAIN CORRIDOR. THE CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE MAIN CORRIDOR TO MINIMIZE THE CABLE LENGTH ENSURING THE CABLE LENGTH DOES NOT EXCEED 275 FEET. CONDUIT, CONNECTIONS, J-BOXES, SUSPENSION, ANCHORAGES, AND OTHER CONDUIT COMPONENTS EXPOSED TO VIEW IN PUBLIC SPACES SHALL BE ROUTED AND INSTALLED CAREFULLY TO MINIMIZE VISUAL IMPACT AND SHALL BE FULLY PAINTED TO MATCH UNLESS NOTED OTHERWISE.

TPA OVERALL FLOOR PLAN KEYED NOTES

1. APPROXIMATE LOCATION OF MDF ROOM.
2. APPROXIMATE LOCATION OF TYPICAL NEW CEILING MOUNTED PA SPEAKER. (BY DIV 27)
3. APPROXIMATE LOCATION OF TYPICAL NEW INTERIOR WALL MOUNTED PA SPEAKER. (BY DIV 27)
4. APPROXIMATE LOCATION OF TYPICAL NEW EXTERIOR WALL MOUNTED SPEAKER. (BY DIV 27)
5. APPROXIMATE LOCATION OF TYPICAL NEW PA SYSTEM VOLUME CONTROL. (BY DIV 27)
6. APPROXIMATE LOCATION OF NEW PAGING HEADEND.
7. APPROXIMATE ROUTE CONDUIT SHALL TAKE TO AN ABOVE CEILING SPACE WITH DROP TILE CEILING. (BY DIV 26)
8. APPROXIMATE LOCATION OF TYPICAL NEW WALL MOUNTED CLOCK. (BY DIV 27)

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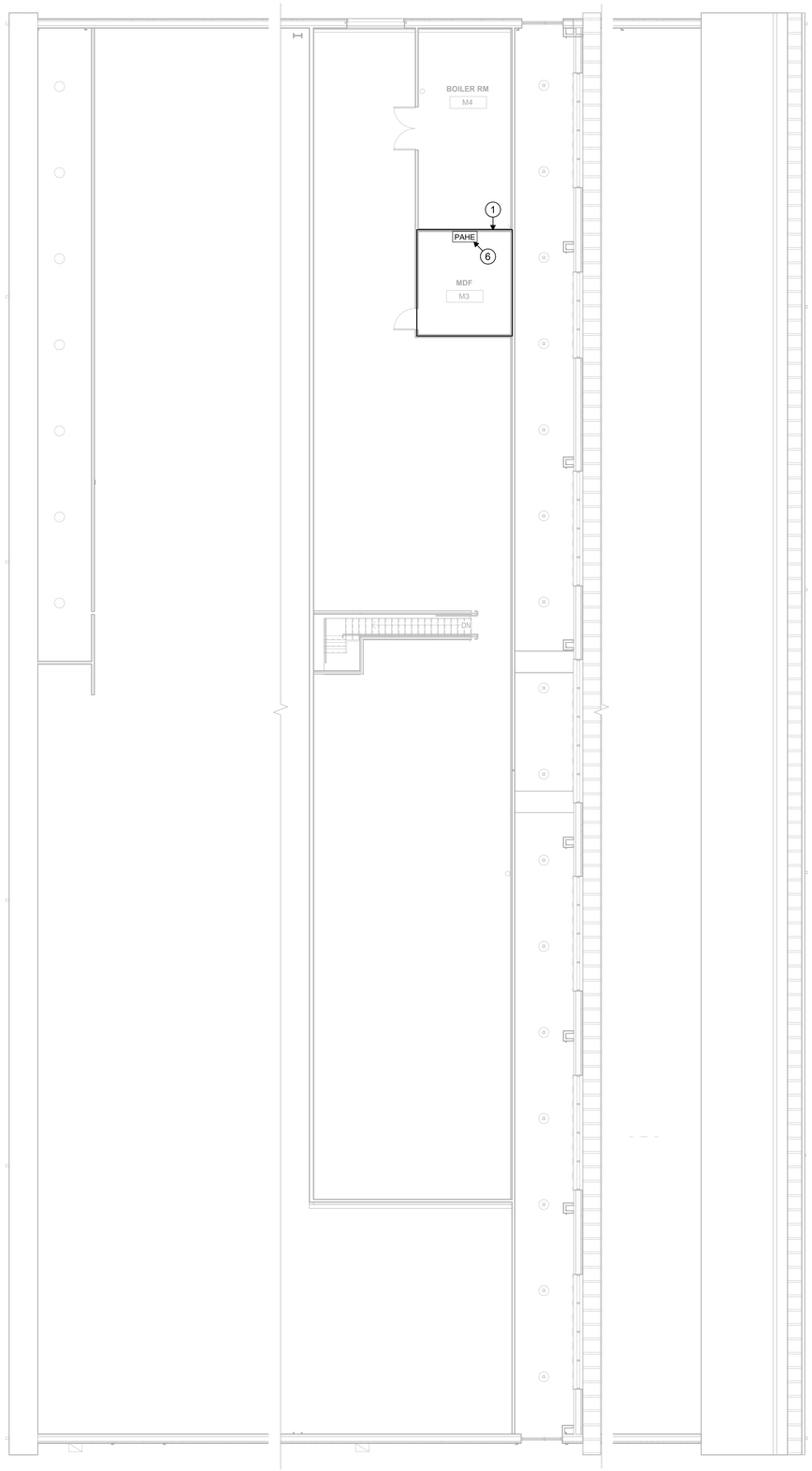
SHEET TITLE
PUBLIC ADDRESS ORIENTATION PLAN - LEVEL ONE

SHEET NO.
TPA2.11

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4. ZONE 4-CONTRACTOR SHALL CONNECT ALL EXTERIOR SPEAKERS ON THERE OWN ZONE (BY DIV. 27)
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1 PUBLIC ADDRESS PLATFORM FLOOR PLAN
TPA2.12 1/8" = 1'-0"

TPA GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL WALL-MOUNTED ROUGH-IN LOCATIONS AND DEVICE INSTALLATIONS IN CORRIDORS AND ROOMS WITH THE ARCHITECTURAL WALL PANELS AND ACOUSTICAL FEATURES. COORDINATION MUST BE COMPLETED WITH THE ARCHITECT PRIOR TO ANY ROUGH-IN OR INSTALLATION WORK.
2. CONTRACTOR SHALL CONDUCT A MANDATORY SITE TOUR TO REVIEW THE EXISTING CONDITIONS, PATHWAYS AND PAGING HEADEND PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL PROVIDE THE PAGING OVERRIDE TO THE AUDIO-VISUAL CLASSROOM SPEAKER AS REQUIRED. (BY DIV 27)
4. ALL CONDUITS FOR PAGING DEVICES SHALL ROUTE FROM THE DEVICE LOCATION AND TERMINATE ABOVE A LAY- IN TYPE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE A LAY-IN TYPE CEILING TO PREVENT THE CABLES FROM BEING EXPOSED, THE CONDUIT SHALL ROUTE TO THE NEAREST LAY-IN TYPE CEILING OFF A MAIN CORRIDOR. THE CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE MAIN CORRIDOR TO MINIMIZE THE CABLE LENGTH ENSURING THE CABLE LENGTH DOES NOT EXCEED 275 FEET. CONDUIT, CONNECTIONS, J-BOXES, SUSPENSION, ANCHORAGES, AND OTHER CONDUIT COMPONENTS EXPOSED TO VIEW IN PUBLIC SPACES SHALL BE ROUTED AND INSTALLED CAREFULLY TO MINIMIZE VISUAL IMPACT AND SHALL BE FULLY PAINTED TO MATCH UNLESS NOTED OTHERWISE.

TPA OVERALL FLOOR PLAN KEYED NOTES

1. APPROXIMATE LOCATION OF MDF ROOM.
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3. APPROXIMATE LOCATION OF TYPICAL NEW INTERIOR WALL MOUNTED PA SPEAKER. (BY DIV 27)
4. APPROXIMATE LOCATION OF TYPICAL NEW EXTERIOR WALL MOUNTED SPEAKER. (BY DIV 27)
5. APPROXIMATE LOCATION OF TYPICAL NEW PA SYSTEM VOLUME CONTROL. (BY DIV 27)
6. APPROXIMATE LOCATION OF NEW PAGING HEADEND.
7. APPROXIMATE ROUTE CONDUIT SHALL TAKE TO AN ABOVE CEILING SPACE WITH DROP TILE CEILING. (BY DIV 26)
8. APPROXIMATE LOCATION OF TYPICAL NEW WALL MOUNTED CLOCK. (BY DIV 27)

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REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
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EXPIRES 12-31-26
Anthony Vistein
RCDD
05/26/2026

ISSUED: May 26, 2026

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Proj. Arch.
Designer CCG
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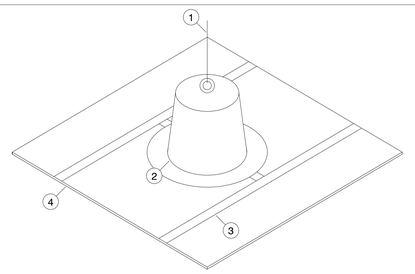
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PUBLIC ADDRESS
PLATFORM FLOOR PLAN

SHEET NO.

TPA2.12

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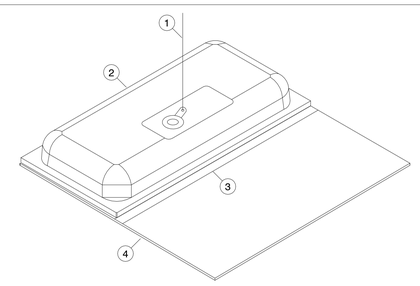


KEYED NOTES:

1. SUPPORT CABLE/THREADED ROD SECURELY FASTENED TO OVERHEAD STRUCTURE. ALL MOUNTING HARDWARE/FRAMING/STRUCTURE/STRUCTURAL MOUNTING POINTS MUST BE CAPABLE OF SUPPORTING AT LEAST FIVE (5) TIMES THE COMBINED WEIGHT OF ALL SUSPENDED EQUIPMENT AND HARDWARE (BY DIV 27).
2. LOUDSPEAKER - MANUFACTURER / MODEL NUMBER AS SPECIFIED (BY DIV 27). COORDINATE FINISH WITH ARCHITECT.
3. TILE BRIDGE/SUPPORT HARDWARE - MANUFACTURER/MODEL NUMBER AS SPECIFIED/REQUIRED (BY DIV 27).
4. SCHEDULED CEILING - REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

1 / TPA4.11 TYPICAL CUT-IN LOUDSPEAKER MOUNTING DETAIL

SCALE: N.T.S.

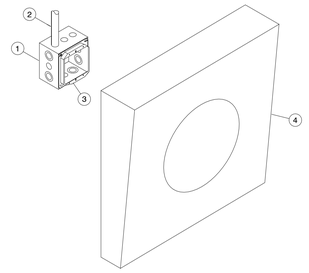


KEYED NOTES:

1. SUPPORT CABLE/THREADED ROD SECURELY FASTENED TO OVERHEAD STRUCTURE. ALL MOUNTING HARDWARE/FRAMING/STRUCTURE/STRUCTURAL MOUNTING POINTS MUST BE CAPABLE OF SUPPORTING AT LEAST FIVE (5) TIMES THE COMBINED WEIGHT OF ALL SUSPENDED EQUIPMENT AND HARDWARE (BY DIV 27).
2. LOUDSPEAKER - MANUFACTURER/MODEL NUMBER AS SPECIFIED (BY DIV 27).
3. T-RAIL CROSSPIECE (BY DIV 27).
4. SCHEDULED CEILING - REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION

2 / TPA4.11 TYPICAL LAY-IN LOUDSPEAKER MOUNTING DETAIL

SCALE: N.T.S.

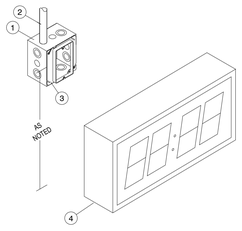


KEYED NOTES:

1. 3/4" EMT CONDUIT FROM DOUBLE-GANG BOX / ACCESSIBLE CEILING TO NEXT DOUBLE-GANG BOX IN SPEAKER CHAIN (BY DIV 16).
2. 4-11/16" X 4-11/16" X 2-1/8" SURFACE-MOUNTED DOUBLE-GANG BOX (BY DIV 16).
3. DOUBLE-GANG PLASTER RING (BY DIV 16).
4. SURFACE-MOUNTED INDOOR LOUDSPEAKER - MANUFACTURER / MODEL NUMBER AS SPECIFIED. REFER TO DRAWINGS, DETAILS, SPECIFICATIONS AND EQUIPMENT SCHEDULES FOR ADDITIONAL INFORMATION. (BY DIV 17).

3 / TPA4.11 TYPICAL INDOOR SURFACE-MOUNTED LOUDSPEAKER MOUNTING DETAIL

SCALE: N.T.S.

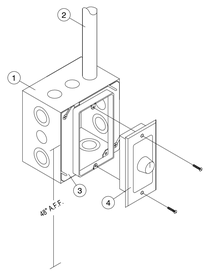


KEYED NOTES:

1. 4-11/16" X 4-11/16" X 2-1/8" RECESSED DOUBLE GANG BOX (BY DIV 26).
2. 1-INCH EMT CONDUIT FROM BACK BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED (BY DIV 26).
3. SINGLE-GANG PLASTER RING - DEVICE OPENING MUST HAVE RIGHT-ANGLE CORNERS TO AVOID PHYSICAL CONFLICTS WITH DEVICE(S) (BY DIV 26).
4. DIGITAL CLOCK - MANUFACTURER/MODEL NUMBER AS SPECIFIED. REFER TO DRAWINGS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION (BY DIV 27).

4 / TPA4.11 TYPICAL WALL-MOUNTED DIGITAL CLOCK DETAIL

SCALE: N.T.S.



KEYED NOTES:

1. 4-11/16" X 4-11/16" X 2-1/8" RECESSED DOUBLE GANG BOX (BY DIV 26).
2. 1-INCH EMT CONDUIT FROM BACK BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING IN THE SAME ROOM WHERE THE DEVICE IS LOCATED (BY DIV 26).
3. SINGLE-GANG PLASTER RING - DEVICE OPENING MUST HAVE RIGHT-ANGLE CORNERS TO AVOID PHYSICAL CONFLICTS WITH DEVICE(S) (BY DIV 26).
4. AUDIO LEVEL CONTROL - MANUFACTURER/MODEL NUMBER AS SPECIFIED. REFER TO DRAWINGS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION (BY DIV 27).

5 / TPA4.11 TYPICAL WALL MOUNTED AUDIO LEVEL CONTROL DETAIL

SCALE: N.T.S.

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SHEET TITLE
PUBLIC ADDRESS TYPICAL DETAILS

SHEET NO.
TPA4.11

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SECURITY SYMBOLS & LEGEND

ACCESS CONTROL SYMBOLS

AD	INTERFACE TO AUTOMATIC DOOR CONTROL AND MONITORING.
BI	INTERFACE TO RETRACTABLE VEHICLE BOLLARD.
BR	BIOMETRIC READER.
CH	DOOR BELL CHIME.
CR	CARD READER.
CR1	CARD READER MULLION MOUNT.
CR2	ELEVATOR CARD READER.
CR3	CARD READER/INTERCOM UNIT.
CR4	CARD READER/INTERCOM PEDESTRIAN PEDESTAL.
D	DURESS BUTTON MOUNTED IN KNEE SPACE OF DESK, TABLE OR COUNTER PROVIDE ARMORED CABLE FROM DURESS BUTTON TO JUNCTION BOX.
D	WALL MOUNTED DURESS BUTTON.
DB	DOOR BELL.
DC	DOOR CONTACT.
DC1	OVERHEAD DOOR CONTACT. PROVIDE ARMORED CABLE FROM SWITCH TO JUNCTION BOX.
DMA	DOOR MANAGEMENT ANNUNCIATOR.
DR	SINGLE DOOR RELEASE PUSHBUTTON UNDER COUNTER. ARMORED CABLE FROM PUSHBUTTON TO JUNCTION BOX.
EL	INTERFACE TO ELEVATOR CONTROL/MONITORING.
FA	INTERFACE TO FIRE ALARM SYSTEM.
GC	INTERFACE TO PARKING GATE CONTROL/MONITORING.
IC	AUDIO INTERCOM SUBSTATION.
IM	INTERCOM MASTER STATION AS INDICATED BLOCK DIAGRAM AND/OR DETAILS.
KS	KEYSWITCH.
LD	LOCKDOWN BUTTON UNDER COUNTER. ARMORED CABLE FROM LOCKDOWN BUTTON TO JUNCTION BOX.
LD	LOCKDOWN BUTTON.
OD	INTERFACE TO OVERHEAD DOOR CONTROL/MONITORING.
RD	INTERFACE TO MOTORIZED REVOLVING DOOR CONTROL/MONITORING.
REX	REQUEST-TO-EXIT IS INTEGRAL WITH ELECTRIFIED LOCKING HARDWARE. PROVIDED AND INSTALLED BY OTHERS.
RX	REQUEST-TO-EXIT MOTION SENSOR MOUNTED CEILING-MOUNTED.
RX	REQUEST-TO-EXIT MOTION SENSOR DOOR FRAME-MOUNTED.
SD	INTERFACE TO SLIDING DOOR CONTROL/MONITORING.
SR	SECURITY SYSTEM RISER, DATA GATHERING PANEL AND LOW VOLTAGE POWER SUPPLY DISTRIBUTION LOCATION.
VI	VIDEO INTERCOM SUBSTATION.
VM	DESKTOP VIDEO INTERCOM MASTER STATION.
WD	WIRELESS DURESS BUTTON MOUNTED IN KNEE SPACE OF DESK, TABLE, OR COUNTER.

ACCESS CONTROL SYMBOLS

WDRR	WIRELESS DOOR RELEASE RECEIVER DEVICE.
WDRT	WIRELESS DOOR RELEASE TRANSMITTER DEVICE.
WR	WIRELESS DURESS BUTTON RECEIVER DEVICE.
WT	WIRELESS DURESS BUTTON TRANSMITTER DEVICE.
	PRE-WIRE AND BLANK COVER PLATE FOR FUTURE DEVICE.

ELECTRONIC SURVEILLANCE SYMBOLS

	FIXED SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.
	CEILING-MOUNTED FIXED SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.
	180° SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.
	CEILING-MOUNTED 180° SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.
	360° SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.
	CEILING-MOUNTED 360° SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.
PTZ	PAN, TILT & ZOOM SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.
PTZ CLG	CEILING-MOUNTED PAN, TILT & ZOOM SURVEILLANCE CAMERA, CAMERA MODEL AND MOUNTING HEIGHT AS SPECIFIED.

GENERAL SYMBOLS

# SHEET — DRAWING TITLE — SCALE: SCALE	DRAWING TITLE CALLOUT, # = DETAIL NUMBER.
# SHEET	DETAIL CALLOUT, # = DETAIL NUMBER.
# SHEET	SECTION CALLOUT, # = DETAIL NUMBER.
SHEET #	ELEVATION CALLOUT, # = DETAIL NUMBER.
#	KEYED NOTE, # = KEYED NOTE NUMBER.
#	REVISION TRIANGLE, # = REVISION NUMBER (PER SHEET).
TR (IDF XXX)	INDICATES SECURITY REGION

INTRUSION DETECTION SYMBOLS

AL	ALARM ANNUNCIATOR LIGHT.
AP	ANNUNCIATOR PANEL AS INDICATED IN BLOCK DIAGRAMS AND/OR DETAILS.
AV	AUDIO VISUAL ANNUNCIATOR.
FA	INTERFACE TO FREEZER/TEMPERATURE ALARM. PROVIDED AND INSTALLED BY OTHERS.
FC	FUTURE CABLE AS SPECIFIED.
GB	CEILING-MOUNTED GLASS BREAK SENSOR.
GB	GLASS BREAK SENSOR.
KP	PERSONAL IDENTIFICATION NUMBER KEYPAD.
M	SOUND DETECTION MICROPHONE.
MD	360° MOTION DETECTOR MOUNTED TO CEILING.
MD	MOTION DETECTOR.
MD LR	LONG RANGE MOTION DETECTOR.
RA	INTERFACE TO REFRIGERATOR/TEMPERATURE ALARM. PROVIDED AND INSTALLED BY OTHERS.
ST	STROBE LIGHT SURFACE MOUNTED TO CEILING.
ST	STROBE LIGHT.
V	VIBRATION DETECTOR.

MISCELLANEOUS SECURITY SYMBOLS

B	ALERTUS BEACON MOUNTED AT 60" A.F.F. UNLESS OTHERWISE NOTED
EP	EMERGENCY PHONE.
LS	FLOOR MOUNTED LIQUID SENSOR. PROVIDE ARMORED CABLE FROM SENSOR TO JUNCTION BOX.
S	INTERCOM SPEAKER FLUSH MOUNTED IN CEILING.
	ALERTUS LED MARQUEE (SINGLE SIDED)
	ALERTUS LED MARQUEE (DOUBLE SIDED)

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
AER	AERIAL
B	BURIED
CAT.3/5	CATEGORY 3/5
CATV	COMMUNITY ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CLT	CLOSET
CO	CENTRAL OFFICE
DEMARC	DEMARCATION POINT
DPDT	DOUBLE PULL DOUBLE THROW
EMT	ELECTRIC METALLIC TUBE
F.O.C.	FIBER OPTIC CABLE
GIP	GALVANIZED IRON PIPE
HE	PA/INTERCOM HEAD-END
IRC	INTERMEDIATE RIGID CONDUIT
ISP	INSIDE CABLE PLANT
IDF	INTERMEDIATE DISTRIBUTION FRAME
MDF	MAIN DISTRIBUTION FRAME
MH	MANHOLE
MM	MULTIMODE
OSP	OUTSIDE CABLE PLANT
PB	PULLBOX
PR	PAIR
PBX	PRIVATE BRANCH EXCHANGE
PVC	POLYVINYL CHLORIDE
SM	SINGLE MODE
SP	SERVICE PROVIDER
STP	SHIELDED TWISTED PAIR
TB	TERMINAL BLOCK
UTP	UNSHIELDED TWISTED PAIR

NOTES

1. CONTRACTOR SHALL REVIEW DRAWINGS AND SPECIFICATIONS THAT MAKE UP THE CONTRACT DOCUMENTS AND COMPLETE ALL WORK INCLUDED THEREIN.
2. SCALE OF SECURITY DRAWINGS IS PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER CABLE LENGTHS, SIZE OF PATHWAYS, DIMENSIONS, ETC.
3. SECURITY DRAWINGS SHALL BE USED TO COMPLEMENT THE WRITTEN SPECIFICATIONS.
4. ANY DISCREPANCY OR CONFLICT WITHIN OR BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGN CONSULTANT. DISCREPANCIES OR CONFLICTS NOT BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGN CONSULTANT AND SUBSEQUENTLY CLARIFIED DURING THE BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN BID OR PROPOSED IN THE MORE COSTLY OR DIFFICULT MANNER, AND THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE ARCHITECT'S/DESIGN CONSULTANT'S INTERPRETATION.
5. ANY REFERENCE TO OR INDICATION OF DOOR HARDWARE IS SHOWN FOR REFERENCE ONLY. COORDINATE WITH THE DIVISION 8 ENGINEER/CONSULTANT FOR DOOR HARDWARE CLARIFICATION OR INFORMATION (BY DIV. 8).

INDEX OF DRAWINGS

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TS2.12	SECURITY PLATFORM FLOOR PLAN
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TS4.12	SECURITY TYPICAL DETAILS
TS5.11	SECURITY SCHEDULES

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05/26/2026

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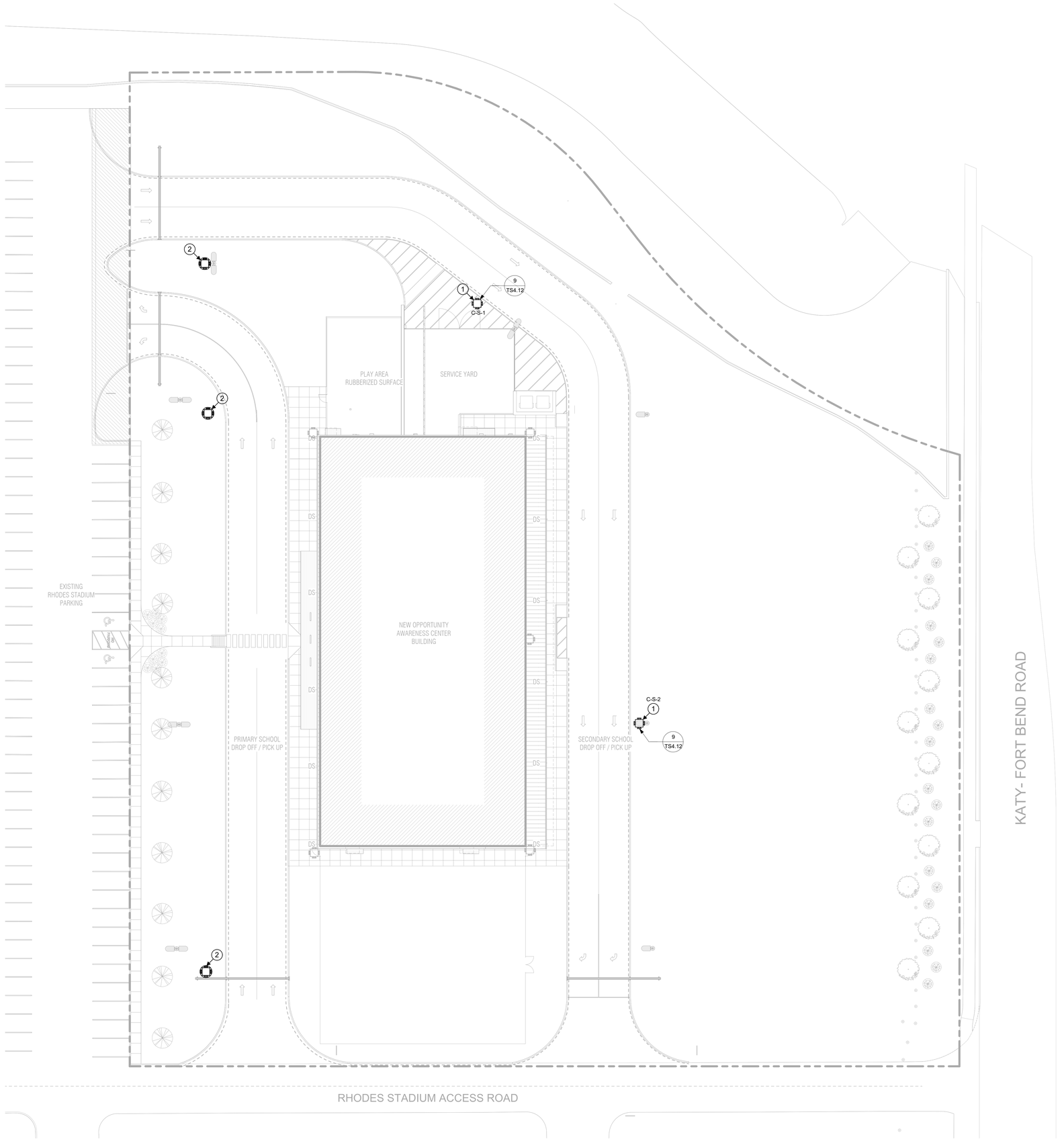
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SECURITY SYMBOLS & LEGEND

SHEET NO.

TS0.00

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N

TRUE NORTH

1 TS1.11 SECURITY OVERALL SITE PLAN
1" = 20'-0"

SECURITY SITE PLAN GENERAL NOTES:

1. ALL SECURITY INSTALLATIONS SHALL COMPLY WITH LOCAL JURISDICTIONAL CODES, INCLUDING PERMITTING REQUIREMENTS FOR LOW-VOLTAGE, CCTV, AND ACCESS CONTROL SYSTEMS WHERE APPLICABLE. CONTRACTOR SHALL CONFIRM ALL PERMITTING NEEDS PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY BOXES, CONDUIT, CABLING, SUPPORTS, TERMINATIONS, AND ACCESSORIES FOR A FULLY FUNCTIONAL AND CODE-COMPLIANT SECURITY SYSTEM, REGARDLESS OF WHETHER EACH ITEM IS SHOWN.
3. ALL CONDUIT PATHWAYS, ROUGH-INS, SLEEVES, AND ASSOCIATED INFRASTRUCTURE SHOWN ON SECURITY DRAWINGS SHALL BE INSTALLED BY DIVISION 26 (ELECTRICAL).
4. ALL POWER TO SECURITY DEVICES, PANELS, AND EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY DIVISION 26 (ELECTRICAL) UNLESS OTHERWISE NOTED.
5. SECURITY DATA NETWORK CABLING, FIBER CONNECTIVITY, AND ASSOCIATED EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY DIVISION 27 (COMMUNICATIONS). REFER TO T-SERIES DRAWINGS FOR ROUTING AND REQUIREMENTS.
6. ELECTRIFIED DOOR HARDWARE INDICATED ON SECURITY DRAWINGS SHALL BE PROVIDED AND INSTALLED BY DIVISION 8. REFER TO HARDWARE SCHEDULES FOR MODEL TYPES, POWER TRANSFER DEVICES, AND CONTROL INTERFACE REQUIREMENTS.
7. VEHICLE GATE EQUIPMENT AND OPERATORS SHALL BE PROVIDED AND INSTALLED BY DIVISION 11. COORDINATE ALL SECURITY-RELATED RELAY CABLING AND TERMINATIONS IN THE FIELD.
8. WHERE SYSTEMS INTERFACE WITH EMERGENCY SERVICES (E.G., GATES, EGRESS HARDWARE, OR INTERCOMS), COORDINATION WITH THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) IS REQUIRED PRIOR TO COMMISSIONING.
9. WHERE INTEGRATION WITH BUILDING SYSTEMS IS REQUIRED (E.G., BMS, ELEVATOR RECALL, INTERCOM, OR FIRE ALARM), COORDINATION SHALL BE PERFORMED WITH THE RESPECTIVE SYSTEM VENDORS PRIOR TO ROUGH-IN.
10. SECURITY EQUIPMENT SHALL BE POWERED FROM DEDICATED CIRCUITS UNLESS OTHERWISE NOTED. COORDINATE PANEL LOCATIONS, BREAKER REQUIREMENTS, AND UPS BACKUP (IF REQUIRED) WITH DIVISION 26.
11. ALL SECURITY SYSTEM COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER MANUFACTURER REQUIREMENTS AND APPLICABLE ELECTRICAL CODES.
12. CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTES WITH ARCHITECTURAL, CIVIL, ELECTRICAL, AND LANDSCAPE DRAWINGS PRIOR TO INSTALLATION OR TRENCHING.
13. ALL PENETRATIONS THROUGH FIRE-RATED WALLS OR STRUCTURES FOR SECURITY CABLING SHALL BE SEALED TO RESTORE ORIGINAL FIRE-RESISTANCE RATINGS.
14. PENETRATIONS THROUGH NON-RATED WALLS SHALL BE SEALED TO REDUCE ACOUSTIC TRANSMISSION BETWEEN SPACES.
15. ALL WALL AND FLOOR PENETRATIONS SHALL BE SEALED TO PREVENT WATER INTRUSION INTO INTERIOR OR CONDITIONED SPACES.
16. CONTRACTOR SHALL RESTORE ALL SURFACES (E.G., WALLS, PAVEMENT, LANDSCAPING) AFFECTED BY SECURITY INSTALLATION TO ORIGINAL OR BETTER CONDITION.
17. COORDINATE CAMERA MOUNTING HEIGHTS ON LIGHT POLES (BY DIVISION 26), INCLUDING HANDHOLE ORIENTATION AND POWER/CABLING ACCESS.
18. ALL SECURITY DEVICE LOCATIONS SHOWN ARE DIAGRAMMATIC AND NOT TO SCALE. FINAL PLACEMENT SHALL BE COORDINATED WITH THE ARCHITECT OR SECURITY DESIGN CONSULTANT PRIOR TO ROUGH-IN.
19. COORDINATE ALL EXTERIOR CAMERA LOCATIONS WITH LANDSCAPING AND ADJACENT BUILDING ELEMENTS. ENSURE CLEAR FIELDS OF VIEW FREE FROM OBSTRUCTIONS SUCH AS TREES, DOWNSPOUTS, OR SIGNAGE.
20. DEVICE HEIGHTS, ESPECIALLY FOR ACCESS CONTROL AND INTERCOMS, SHALL MEET ADA ACCESSIBILITY REQUIREMENTS AND APPLICABLE LOCAL/STATE CODES.
21. VERIFY EXACT MOUNTING CONDITIONS IN THE FIELD AND COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS WITH STRUCTURE, FINISHES, OR UTILITIES.
22. ALL INSTALLED SYSTEMS AND COMPONENTS SHALL BE TESTED FOR FULL FUNCTIONALITY, INTEGRATION, AND COMPLIANCE WITH SPECIFICATIONS PRIOR TO FINAL TURNOVER.
23. CONTRACTOR SHALL COORDINATE FINAL TERMINATIONS, PROGRAMMING, AND SYSTEM COMMISSIONING WITH THE SECURITY VENDOR OR INTEGRATOR. SYSTEM FUNCTIONALITY SHALL BE DEMONSTRATED AND ACCEPTED BY THE OWNER PER WRITTEN SPECIFICATIONS.
24. CONTRACTOR SHALL REFER TO T-SERIES TECHNOLOGY OR STRUCTURED CABLING DRAWINGS FOR DEVICE DATA NETWORK CABLING, RISER INFORMATION, AND ADDITIONAL SYSTEM-SPECIFIC REQUIREMENTS.
25. CONTRACTOR SHALL SUBMIT PRODUCT DATA SHEETS, SHOP DRAWINGS, AND DEVICE CUT SHEETS FOR ALL SECURITY EQUIPMENT FOR REVIEW AND APPROVAL PRIOR TO ORDERING.
26. UPON COMPLETION, PROVIDE RECORD DRAWINGS (AS-BUILTS), INCLUDING CONDUIT ROUTING, DEVICE LOCATIONS, CABLE IDS, AND PANEL TERMINATIONS. LABEL ALL DEVICES IN THE FIELD TO MATCH RECORD DOCUMENTS.
27. CONTRACTOR SHALL NOTIFY THE SECURITY CONSULTANT AND/OR ARCHITECT OF ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS PRIOR TO INSTALLATION. UNAUTHORIZED SUBSTITUTIONS OR RELOCATIONS MAY BE SUBJECT TO REMOVAL AND CORRECTION AT THE CONTRACTOR'S EXPENSE.

SECURITY SITE PLAN KEYED NOTES:

1. APPROXIMATE LOCATION OF DUAL CHANNEL LIGHT POLE AS SPECIFIED (BY DIV. 26). MOUNT SECURITY DEVICES AS INDICATED. REFERENCE STRUCTURAL, CIVIL, ELECTRICAL AND TECHNOLOGY DRAWINGS FOR ADDITIONAL REQUIREMENTS.
2. APPROXIMATE LOCATION OF DUAL CHANNEL LIGHT POLE AS SPECIFIED (BY DIV. 26). PROVIDE CONDUIT AND ROUGH-IN ONLY FOR FUTURE SECURITY CAMERA. REFERENCE TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION.

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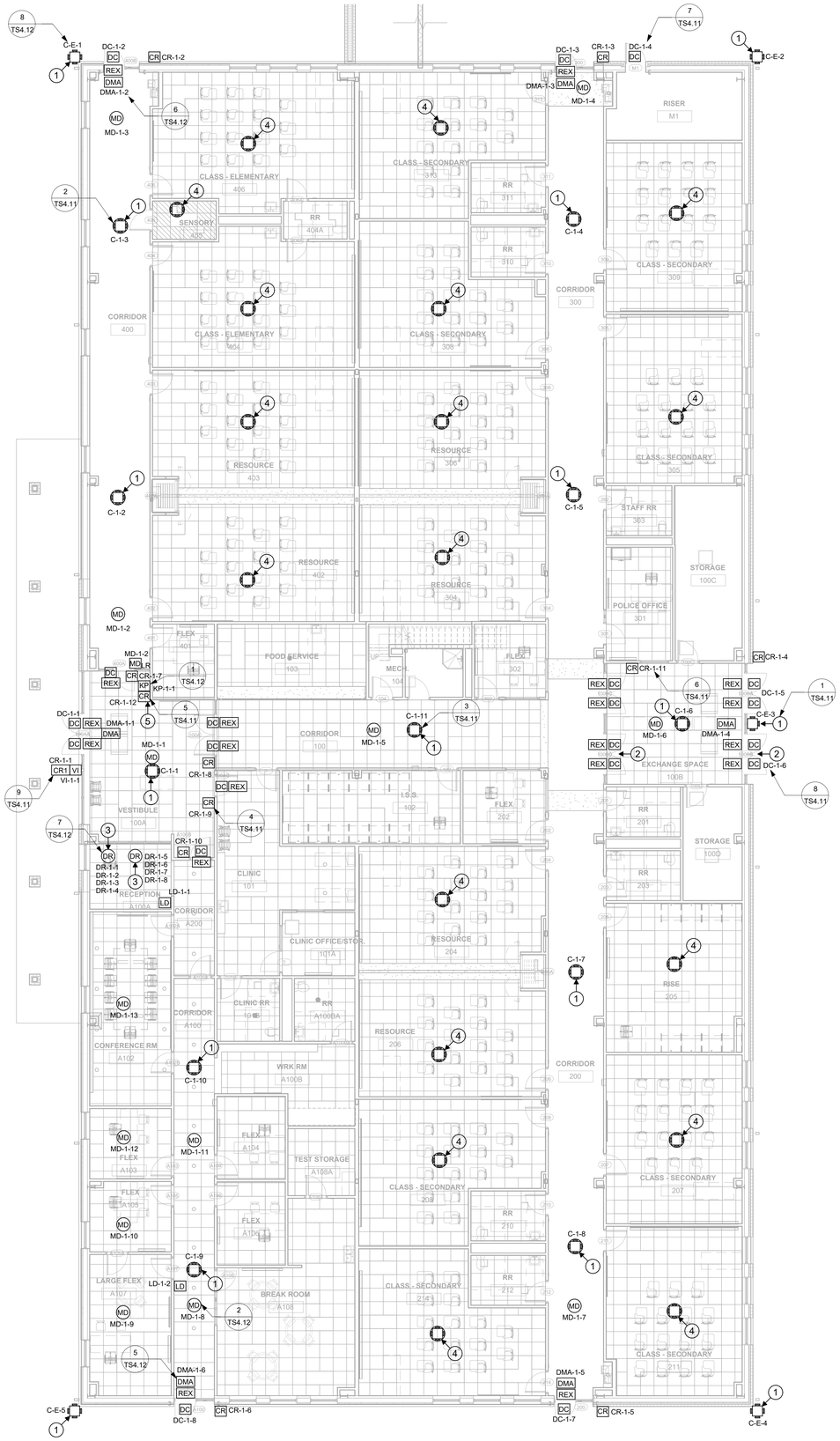
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SHEET TITLE
SECURITY OVERALL SITE PLAN

SHEET NO.
TS1.11

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1 TS2.11 SECURITY ORIENTATION PLAN - LEVEL ONE
1/8" = 1'-0"

SECURITY FLOOR PLANS GENERAL NOTES:

1. ALL SECURITY INSTALLATIONS SHALL COMPLY WITH LOCAL CODES AND PERMITTING REQUIREMENTS FOR LOW-VOLTAGE, CCTV, AND ACCESS CONTROL SYSTEMS. CONTRACTOR SHALL VERIFY AND OBTAIN ALL REQUIRED PERMITS PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED BOXES, CONDUIT, CABLING, SUPPORTS, TERMINATIONS, AND ACCESSORIES FOR A COMPLETE AND CODE-COMPLIANT SECURITY SYSTEM, WHETHER OR NOT EACH ITEM IS SPECIFICALLY SHOWN.
3. ALL CONDUIT PATHWAYS, ROUGH-INS, SLEEVES, AND ASSOCIATED INFRASTRUCTURE SHOWN ON SECURITY DRAWINGS SHALL BE INSTALLED BY DIVISION 26 (ELECTRICAL).
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5. SECURITY DATA NETWORK CABLING, FIBER CONNECTIVITY, AND ASSOCIATED EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY DIVISION 27 (COMMUNICATIONS). REFER TO T-SERIES DRAWINGS FOR ROUTING AND REQUIREMENTS.
6. ELECTRIFIED DOOR HARDWARE INDICATED ON SECURITY DRAWINGS SHALL BE PROVIDED AND INSTALLED BY DIVISION 8. REFER TO DOOR HARDWARE SCHEDULES FOR MODEL TYPES, POWER TRANSFER DEVICES, AND CONTROL INTERFACE REQUIREMENTS.
7. VEHICLE GATE EQUIPMENT AND OPERATORS SHALL BE PROVIDED AND INSTALLED BY DIVISION 11. COORDINATE ALL SECURITY-RELATED RELAY CABLING AND TERMINATIONS IN THE FIELD.
8. ELEVATOR SECURITY INTERFACES, INCLUDING CARD READER FLOOR ACCESS, HALL CALL CONTROL, AND CAMERAS, SHALL BE COORDINATED WITH THE ELEVATOR VENDOR. TRAVEL CABLES AND ASSOCIATED TERMINATIONS SHALL BE PROVIDED AND INSTALLED BY THE ELEVATOR CONTRACTOR. REFER TO ELEVATOR SHOP DRAWINGS AND SPECIFICATIONS FOR INTERFACE REQUIREMENTS.
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11. SECURITY EQUIPMENT SHALL BE POWERED FROM DEDICATED CIRCUITS UNLESS OTHERWISE NOTED. COORDINATE PANEL LOCATIONS, BREAKER REQUIREMENTS, AND UPS BACKUP (IF REQUIRED) WITH DIVISION 26.
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14. ALL PENETRATIONS THROUGH FIRE-RATED WALLS OR STRUCTURES FOR SECURITY CABLING SHALL BE SEALED TO RESTORE ORIGINAL FIRE-RESISTANCE RATINGS.
15. PENETRATIONS THROUGH NON-RATED WALLS SHALL BE SEALED TO REDUCE ACOUSTIC TRANSMISSION BETWEEN SPACES.
16. ALL WALL AND FLOOR PENETRATIONS SHALL BE SEALED TO PREVENT WATER INTRUSION INTO INTERIOR OR CONDITIONED SPACES.
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SECURITY FLOOR PLAN KEYED NOTES:

1. PROVIDE ROUGH-IN FOR OFOI CAMERA. INCLUDE CONDUIT BACKBOX AND DATA CABLE. COORDINATE FIELD OF VIEW AND MOUNTING HEIGHT WITH OWNER.
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3. INSTALL FOUR (4) DOOR RELEASE BUTTONS BENEATH DESK OR COUNTER AS SHOWN. COORDINATE EXACT PLACEMENT AND ORIENTATION WITH OWNER. ENSURE BUTTONS ARE SECURELY MOUNTED, LABELED, AND INTEGRATED WITH ASSOCIATED DOOR LOCKING HARDWARE FOR PROPER DOOR RELEASE FUNCTION.
4. PROVIDE DATA NETWORK CABLE FOR FUTURE CAMERA ROUGH-IN. REFERENCE TECHOLOGY DRAWINGS FOR ADDITIONAL INFORMATION.
5. ARMING CARD READER IN WHITE WITH PROTECTIVE SMOKE COVER. INTERFACE WITH ADJACENT ALARM KEYPAD TO ARM / DISARM WITH AUTHORIZED CARD ACCESS.

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NEW OPPORTUNITY AWARENESS CENTER

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BICSI ID # 203153
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RCDD
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ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

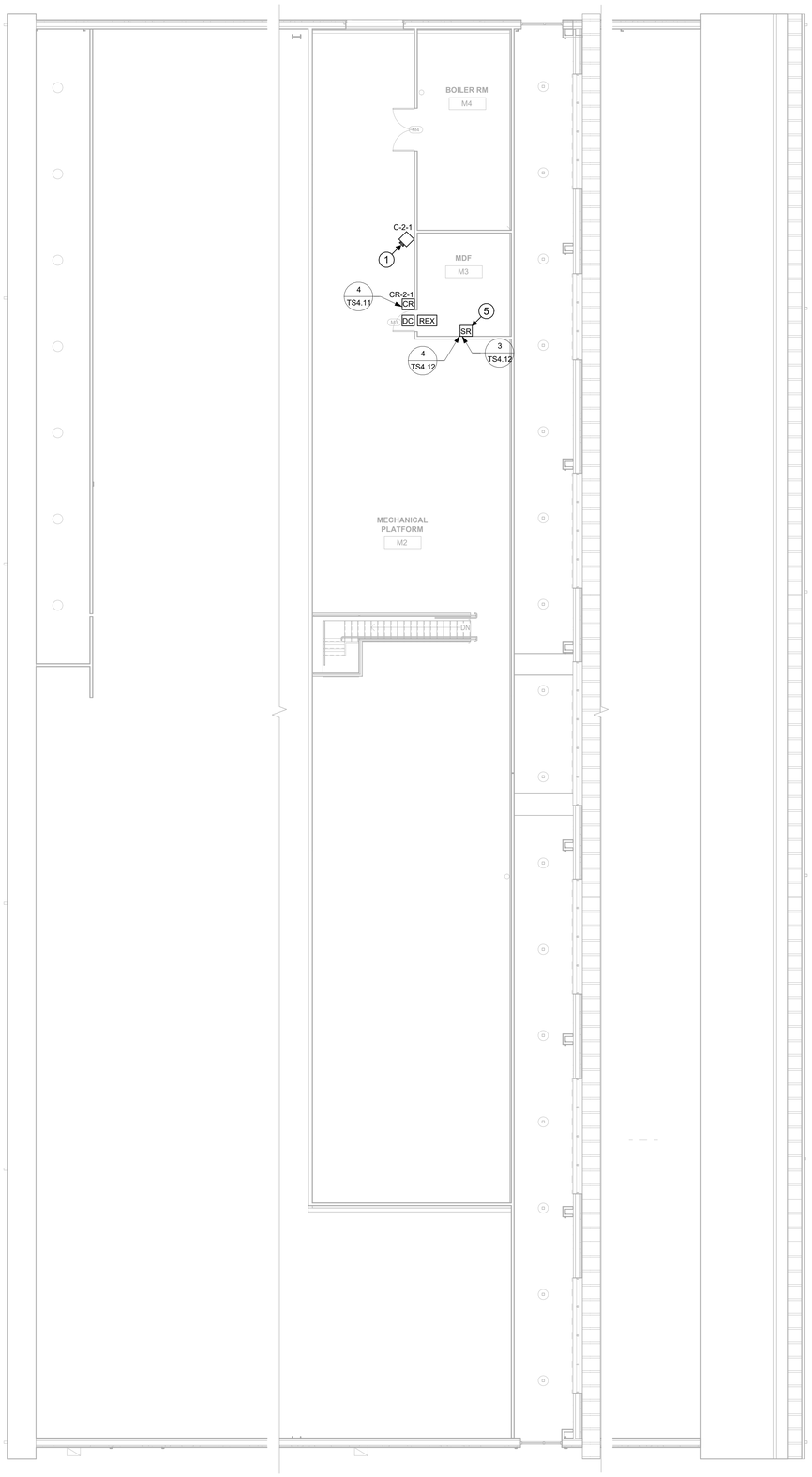
Director
Proj. Arch.
Designer CCG
Drawn By CCG

PROJECT NO.
25-0067.00

SHEET TITLE
SECURITY ORIENTATION PLAN - LEVEL ONE

SHEET NO.
TS2.11

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1 TS2.12 SECURITY PLATFORM FLOOR PLAN
1/8" = 1'-0"

SECURITY FLOOR PLANS GENERAL NOTES:

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ISSUED: May 26, 2026

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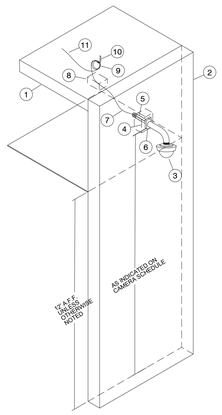
Director
Proj. Arch.
Designer CCG
Drawn By CCG

PROJECT NO.
25-0067.00

SHEET TITLE
SECURITY PLATFORM FLOOR PLAN

SHEET NO.
TS2.12

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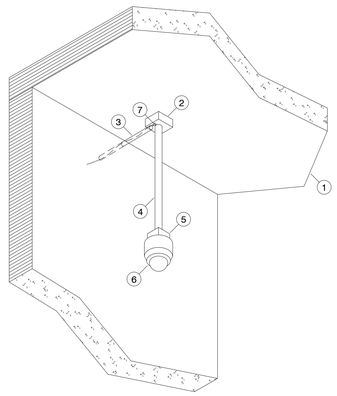


KEYED NOTES:

1. CEILING AS SCHEDULED.
2. EXTERIOR WALL AS SCHEDULED.
3. EXTERIOR WALL MOUNTED IP VIDEO SURVEILLANCE HD DOME CAMERA (BY OWNER)
4. 4 11/16-INCH x 4 11/16-INCH x 2 1/8-INCH RECESSED DOUBLE GANG BOX WITH SINGLE GANG PLASTER RING(BY DIV 26).
5. 3/4-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING (BY DIV 26).
6. WEATHERTIGHT GASKET FOR WEATHERPROOF BACKBOX (BY DIV 26).
7. PATCH CORD AS SPECIFIED.
8. SURFACE MOUNT BOX ABOVE ACCESSIBLE CEILING (BY DIV 27).
9. 20 FOOT SERVICE LOOP ABOVE ACCESSIBLE CEILING NEATLY COILED AND SECURED TO J-HOOK (BY DIV 27).
10. J-HOOK ABOVE ACCESSIBLE CEILING (BY DIV 27).
11. DATA CABLE ABOVE ACCESSIBLE CEILING (BY DIV 27).

TYPICAL EXTERIOR FIXED WALL MOUNTED SURVEILLANCE CAMERA

1 / TS4.11 — SCALE: N.T.S.

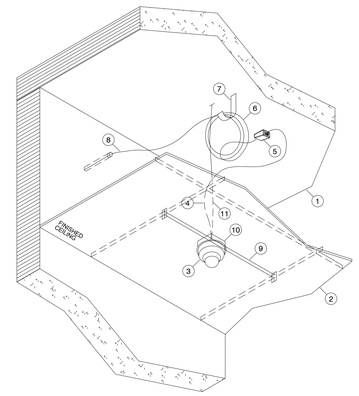


KEYED NOTES:

1. CEILING AS SCHEDULED
2. 4 1/16-INCH X 4 1/16-INCH X 2 1/8-INCH DEEP BACK BOX WITH 4 INCH SQUARE 3/4-INCH THREADED CONDUIT SWIVEL COVER PLATE SURFACE MOUNTED TO CEILING (BY DIV.16)
3. (1) 1-INCH EMT CONDUIT WITH 200 LBS. PULL STRING AND NYLON BUSHING FROM WEATHERPROOF BACK BOX TO THE IDF ROOM OR NEAREST ACCESSIBLE CEILING (BY DIV. 16)
4. (1) 3/4-INCH IMC THREADED CONDUIT FROM SWIVEL COVER PLATE TO CAMERA BACK BOX. (BY DIV. 16)
5. 4 1/16-INCH X 4 1/16-INCH X 2 1/8-INCH DEEP BACK BOX SECURELY THREADED AND CONNECTED TO CONDUIT.
6. FIXED SURVEILLANCE CAMERA MOUNTED TO CAMERA BACK BOX (BY OWNER)
7. PATCH CORD FROM DATA JACK IN JUNCTION BOX TO VIDEO SURVEILLANCE CAMERA

TYPICAL INTERIOR PENDANT MOUNTED SURVEILLANCE CAMERA

2 / TS4.11 — SCALE: N.T.S.

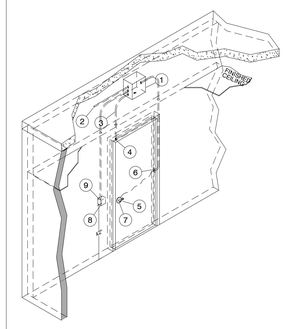


KEYED NOTES:

1. CEILING DECK AS SCHEDULED.
2. LAY-IN CEILING AS SCHEDULED.
3. CEILING MOUNTED INTERIOR IP VIDEO SURVEILLANCE DOME CAMERA (BY OWNER)
4. PATCH CORD (BY DIV 27).
5. SURFACE MOUNT DATA OUTLET ABOVE ACCESSIBLE CEILING (BY DIV 27).
6. 20 FOOT SERVICE LOOP ABOVE ACCESIBLE CEILING NEATLY COILED AND SECURED TO J-HOOK (BY DIV 27).
7. J-HOOK ABOVE ACCESSIBLE CEILING (BY DIV 27).
8. DATA CABLE ABOVE ACCESSIBLE CEILING (BY DIV 27).
9. HEAVY DUTY T-GRID, SURVEILLANCE CAMERA SUPPORT ATTACHED TO CEILING GRID (BY DIV 26).
10. DOUBLE GANG BACKBOX WITH SINGLE GANG PLASTER RING (BY DIV 26).
11. GUIDEWIRE FROM DOUBLE GANG BACKBOX WITH DUAL-GANG MUD RING TO STRUCTURE (BY DIV 26).

TYPICAL INTERIOR CEILING MOUNTED SURVEILLANCE CAMERA

3 / TS4.11 — SCALE: N.T.S.

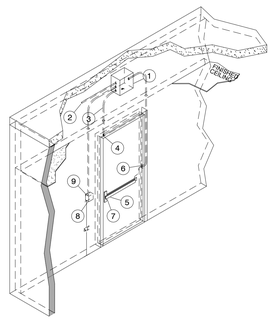


KEYED NOTES:

1. (1) 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR (BY DIV. 26).
2. (1) 1-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX TO ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR FOR ACCESS CONTROL CABLE (BY DIV. 26).
3. (1) 1/2-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX TO HEAD OF DOOR FRAME FOR CONCEALED DOOR POSITION SWITCH. STUB CONDUIT INTO HEAD OF DOOR FRAME 6-INCHES FROM THE STRIKE SIDE OF THE DOOR. PROVIDE A 3-INCH BLOCKOUT FOR GROUTED DOORS (BY DIV. 26).
4. CONCEALED DOOR POSITION SWITCH (BY DIV. 28).
5. (1) REQUEST TO EXIT MOTION SENSOR INTEGRAL TO LEVERSET (BY DIV. 26).
6. (1) 3/4-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX DOWN DOOR FRAME FOR POWER TRANSFER HINGE (BY DIV. 26).
7. (1) ELECTRIFIED LEVERSET ON SECURE SIDE OF DOOR (BY DIV. 8).
8. (1) 3/4-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX TO A RECESSED DOUBLE GANG BOX WITH A SINGLE GANG PLASTER RING FOR CARD READER ON UNSECURE SIDE OF DOOR (BY DIV. 26).
9. (1) CARD READER ON UNSECURE SIDE OF DOOR (BY DIV. 28).

WALL MOUNTED CARD READER WITH ELECTRIFIED LEVERSET AND REQUEST TO EXIT INTEGRAL SWITCH

4 / TS4.11 — SCALE: N.T.S.

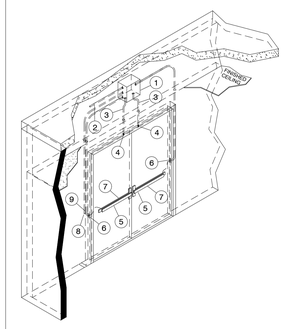


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7. (1) ELECTRIFIED EXIT DEVICE ON SECURE SIDE OF DOOR (BY DIV. 8).
8. (1) 3/4-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX TO A RECESSED DOUBLE GANG BOX WITH A SINGLE GANG PLASTER RING FOR CARD READER ON UNSECURE SIDE OF DOOR (BY DIV. 26).
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WALL MOUNTED CARD READER WITH ELECTRIFIED EXIT DEVICE AND REQUEST TO EXIT INTEGRAL SWITCH

5 / TS4.11 — SCALE: N.T.S.

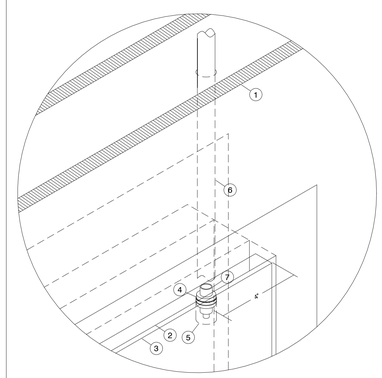


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4. CONCEALED DOOR POSITION SWITCH (BY DIV. 28).
5. (1) REQUEST TO EXIT MOTION SENSOR INTEGRAL TO ELECTRIFIED EXIT DEVICE (BY DIV. 28).
6. (1) 3/4-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX DOWN DOOR FRAME FOR POWER TRANSFER HINGE (BY DIV. 26).
7. (1) ELECTRIFIED EXIT DEVICE ON SECURE SIDE OF DOOR (BY DIV. 8).
8. (1) 1/2-INCH EMT CONDUIT FROM 12-INCH WIDE X 12-INCH HIGH X 8-INCH DEEP JUNCTION BOX DOWN DOOR FRAME TO 3/8-INCH HOLE IN FRAME AT 42-INCH A.F.F. FOR CARD READER (BY DIV. 26).
9. (1) CARD READER ON UNSECURE SIDE OF DOOR (BY DIV. 28).

MULLION MOUNTED CARD READER WITH DOUBLE ELECTRIFIED EXIT DEVICE AND REQUEST TO EXIT INTEGRAL SWITCH

6 / TS4.11 — SCALE: N.T.S.

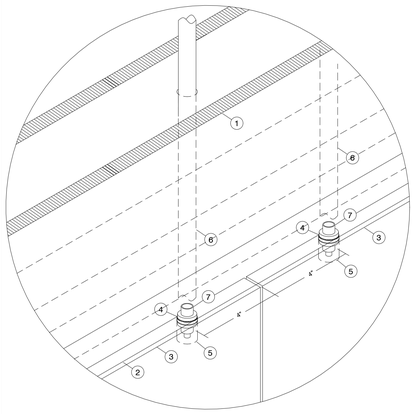


KEYED NOTES:

1. SCHEDULED PARTITION.
2. HEAD OF DOOR FRAME. PROVIDE TAB AT DOOR FRAME TO SECURE CONDUIT DIRECTLY ABOVE DOOR POSITION SWITCH.
3. SCHEDULED DOOR.
4. 15/16" DIAMETER HOLE IN THE HEAD OF FRAME FOR CONCEALED DOOR CONTACT.
5. 15/16" DIAMETER X 1 5/8" DEEP HOLE IN TOP OF DOOR FOR CONCEALED DOOR CONTACT MAGNET.
6. 1/2" CONDUIT FROM 6" X 6" X 4" JUNCTION BOX ABOVE DOOR (BY DIV 26).
7. DOOR CONTACT (REFERENCE SPECIFICATION).

DOOR CONTACT - SINGLE DOOR RECESSED

7 / TS4.11 — SCALE: SCALE

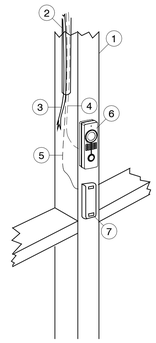


KEYED NOTES:

1. SCHEDULED PARTITION.
2. HEAD OF DOOR FRAME. PROVIDE TAB AT DOOR FRAME TO SECURE CONDUIT DIRECTLY ABOVE DOOR POSITION SWITCH.
3. SCHEDULED DOOR.
4. 15/16" DIAMETER HOLE IN THE HEAD OF FRAME FOR CONCEALED DOOR CONTACT.
5. 15/16" DIAMETER X 1 5/8" DEEP HOLE IN TOP OF DOOR FOR CONCEALED DOOR CONTACT MAGNET.
6. 1/2" CONDUIT FROM 6" X 6" X 4" JUNCTION BOX ABOVE DOOR (BY DIV 26).
7. DOOR CONTACT (REFERENCE SPECIFICATION).

DOOR CONTACT - DOUBLE DOOR RECESSED

8 / TS4.11 — SCALE: SCALE



KEYED NOTES:

1. STOREFRONT MULLION AS SCHEDULED (BY OTHERS)
2. (1) 3/4 INCH CONDUIT FROM NEAREST ACCESSIBLE CEILING OR SECURITY ENCLOSURE STUBBED INTO MULLION FOR MULLION MOUNT CARD READER AND INTERCOM. COORDINATE INSTALLATION OF CONDUIT PAST MULLION CHANNEL INTERSECTIONS WITH STOREFRONT INSTALLER (BY DIV. 26)
3. 200 LBS PULL STRING OR MULE TAPE FOR FUTURE USE (BY DIV. 26)
4. DATA CABLING AS SPECIFIED (BY DIV. 27)
5. CARD READER JUMPER CABLING AS SPECIFIED (BY DIV. 28)
6. IP VIDEO INTERCOM AS SPECIFIED SURFACED MOUNTED WITH SECURITY FASTENERS (BY DIV. 28)
7. CARD READER AS SPECIFIED. (BY DIV. 28)

TYPICAL MULLION MOUNTED IP INTERCOM WITH CARD READER

9 / TS4.11 — SCALE: N.T.S.

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05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

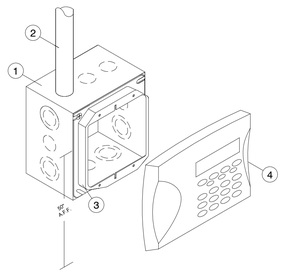
Director
Proj. Arch.
Designer CCG
Drawn By CCG

PROJECT NO.
25-0067.00

SHEET TITLE
SECURITY TYPICAL DETAILS

SHEET NO.
TS4.11

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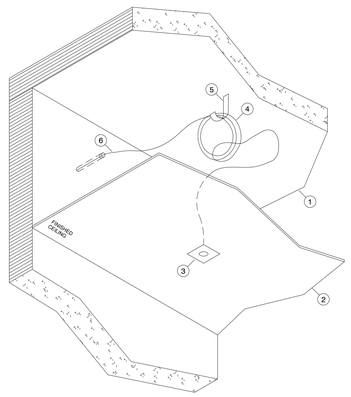


KEYED NOTES:

1. 4 1/16-INCH x 4 1/16-INCH x 2 1/8-INCH DOUBLE GANG BOX (BY DIV 26). RECESS WHEN POSSIBLE.
2. 1-INCH EMT CONDUIT FROM DOUBLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED TO CABLE TRAY (BY DIV 26).
3. DOUBLE GANG PLASTER RING (BY DIV 26).
4. SCHEDULED ARM/DISARM KEYPAD (REFERENCE SPECIFICATION).

1 / TS4.12 TYPICAL ARM/DISARM KEYPAD DETAIL

SCALE: N.T.S.



KEYED NOTES:

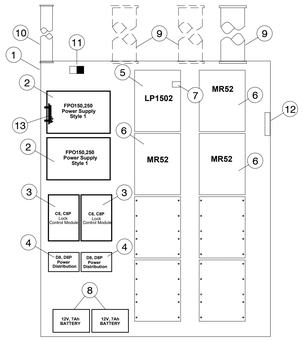
1. CEILING DECK AS SCHEDULED.
2. LAY-IN CEILING AS SCHEDULED.
3. CEILING MOUNTED MOTION DETECTOR (REFERENCE DIV 28 SPECIFICATIONS FOR EXACT MODEL).
4. 20 FOOT SERVICE LOOP ABOVE ACCESSIBLE CEILING NEATLY COILED AND SECURED TO J-HOOK (BY DIV 28).
5. J-HOOK ABOVE ACCESSIBLE CEILING (BY DIV 28).
6. SECURITY CABLE ABOVE ACCESSIBLE CEILING (BY DIV 28).

2 / TS4.12 TYPICAL INTERIOR CEILING MOUNTED MOTION DETECTOR

SCALE: N.T.S.

GENERAL NOTE:

1. THIS DETAIL IS FOR REFERENCE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE SECURITY CONTRACTOR TO SIZE EACH ACCESS CONTROL PANEL WITH 20% ADDITIONAL OVERALL AMPERAGE. THE SECURITY CONTRACTOR SHALL REFERENCE THE DIVISION 8 FINISH HARDWARE SCHEDULE FOR ALL LOCK POWER REQUIREMENTS IN ORDER TO PROVIDE A FULLY FUNCTION ACCESS CONTROL SYSTEM. SECURITY CONTRACTOR SHALL VERIFY POWER SUPPLY COMPATIBILITY WITH DIVISION 8 CONTACTOR HARDWARE PRIOR TO INSTALLATION.

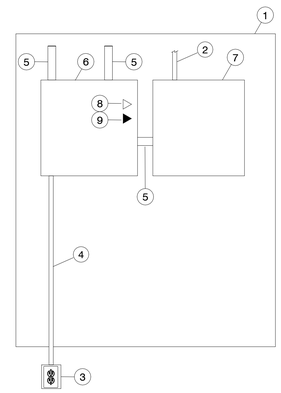


KEYED NOTES:

1. LIFESAFTEY ENCLOSURE (BY DIV. 28)
2. 12/24VDC POWER SUPPLY AS REQUIRED. IT IS THE RESPONSIBILITY OF THE DIV. 28 CONTRACTOR TO SIZE EACH POWER SUPPLY WITH 20% ADDITIONAL POWER FOR FUTURE GROWTH (BY DIV. 28)
3. DUAL VOLTAGE RELAY BASED LOCK CONTROL MODULE AS REQUIRED. EACH ELECTRIFIED LOCK SHALL BE PROTECTED BY A DEDICATED FUSED OUTPUT (BY DIV. 28)
4. DUAL VOLTAGE POWER DISTRIBUTION MODULE AS REQUIRED. EACH REQUEST TO EXIT MOTION SENSORS SHALL BE PROTECTED BY A DEDICATED FUSED OUTPUT (BY DIV. 28)
5. INTELLIGENT 2 DOOR CONTROLLER AS REQUIRED (BY DIV. 28)
6. 2 DOOR SUB CONTROLLER(S) AS REQUIRED (BY DIV. 28)
7. INTELLIGENT CONTROLLER NETWORK INTERFACE. (1) DATA CABLE SHALL BE PATCHED TO OWNER'S EXISTING NETWORK (BY DIV. 27)
8. BATTERY BACKUP AS SPECIFIED. BATTERIES SHALL BE MACHINE LABELED WITH THE DATE OF INSTALLATION. BATTERIES SHALL BE PLACED ON DIELECTRIC MATERIAL (BY DIV. 28)
9. PROVIDE 2-INCH CONDUIT STUBBED UP AS REQUIRED WITH THREADED NYLON BUSHING TO ENCLOSURE FOR LOW VOLTAGE SECURITY DEVICE CABLING. REFERENCE DEVICE SCHEDULES FOR QUANTITY NEEDED TO HOLD ALL CABLING AS REQUIRED (BY DIV. 26)
10. (1) 3/4-INCH CONDUIT WITH THREADED NYLON BUSHING NEAR POWER SUPPLY TERMINATION LOCATION. (BY DIV. 26)
11. MANUFACTURER PROVIDED CIRCUIT BREAKER ROCKER SWITCH CONNECTED TO 120VAC POWER SUPPLY CIRCUIT (BY DIV. 26)
12. SECURITY ENCLOSURE DOOR TAMPER SWITCH AS SPECIFIED (BY DIV. 28)
13. NETWORKED POWER SUPPLY STATUS MONITORING MODULE AS SPECIFIED (BY DIV. 28)

3 / TS4.12 TYPICAL ENCLOSED ACCESS CONTROL PANEL

SCALE: N.T.S.

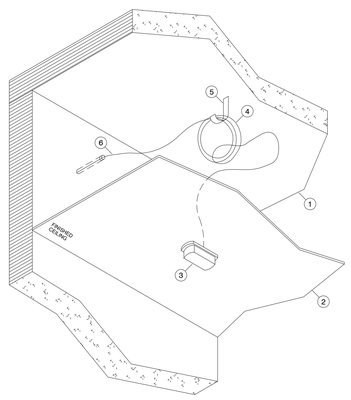


KEYNOTES

1. FIRE-RATED PLYWOOD BACKBOARD (BY OTHERS)
2. TYPICAL 3/4-INCH CONDUIT FOR DEDICATED 20 AMP CIRCUIT HARDWIRED TO INTRUSION DEVICE POWER SUPPLY. EXACT SIZE AND LOCATION OF CONDUIT BASED ON ENCLOSURE. (BY DIV. 26)
3. DEDICATED 20 AMP RECESSED DUAL OUTLET RECEPTACLE CIRCUIT WITH NEMA 1 TRANSFORMER COVER. PROVIDE MEIR BW-250 OR APPROVED EQUIVALENT. (BY DIV. 26)
4. 1/2-INCH CONDUIT WITH THREADED PLASTIC BUSHINGS FOR LOW VOLTAGE POWER TRANSFORMER CABLING (BY DIV. 26)
5. 1-INCH CONDUIT SLEEVES WITH THREADED PLASTIC BUSHINGS FOR INTRUSION DETECTION SYSTEM CABLING (BY DIV. 26)
6. INTRUSION DETECTION SYSTEM PANEL ENCLOSURE (BY DIV. 28)
7. INTRUSION DEVICE POWER SUPPLY ENCLOSURE (BY DIV. 28)
8. NETWORK DATA INTERFACE CABLE AS REQUIRED. (BY DIV. 27)
9. TELEPHONE DIALER INTERFACE CABLE AS REQUIRED. (BY DIV. 27)

4 / TS4.12 TYPICAL INTRUSION DETECTION SYSTEM PANEL

SCALE: N.T.S.

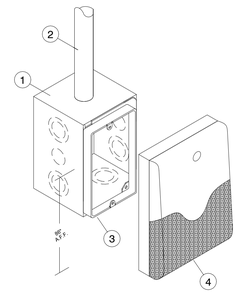


KEYED NOTES:

1. CEILING DECK AS SCHEDULED.
2. LAY-IN CEILING AS SCHEDULED.
3. CEILING MOUNTED DURESS STROBE (REFERENCE DIV 28 SPECIFICATIONS FOR EXACT MODEL).
4. 20 FOOT SERVICE LOOP ABOVE ACCESSIBLE CEILING NEATLY COILED AND SECURED TO J-HOOK (BY DIV 28).
5. J-HOOK ABOVE ACCESSIBLE CEILING (BY DIV 28).
6. SECURITY CABLE ABOVE ACCESSIBLE CEILING (BY DIV 28).

5 / TS4.12 TYPICAL INTERIOR CEILING MOUNTED DURESS STROBE

SCALE: N.T.S.

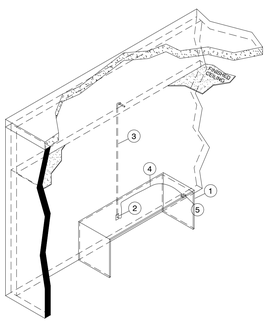


KEYED NOTES:

1. 2-INCH x 4-INCH x 2 1/8-INCH RECESSED SINGLE GANG BOX (BY DIV 26).
2. 1-INCH EMT CONDUIT FROM SINGLE GANG BOX WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED OUT ABOVE ACCESSIBLE CEILING. IN THE SAME ROOM WHERE THE DEVICE IS LOCATED. IF THE ROOM WHERE THE DEVICE IS LOCATED DOES NOT HAVE AN ACCESSIBLE CEILING, THE CONDUIT SHALL ROUTE TO THE NEAREST ACCESSIBLE CEILING OFF OF A MAIN CORRIDOR. CONDUIT PATHWAY SHALL TAKE THE SHORTEST ROUTE TO THE APPLICABLE MDF/IDF ROOM TO MINIMIZE THE CABLE LENGTH (BY DIV 26).
3. SINGLE GANG PLASTER RING (BY DIV 26).
4. SCHEDULED WALL-MOUNTED SIREN WITH LED STROBE.

6 / TS4.12 SIREN WITH LED STROBE - WALL MOUNTED DETAIL

SCALE: N.T.S.

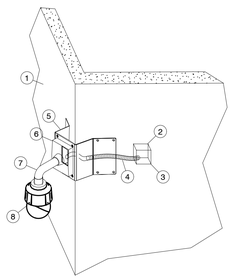


KEYED NOTES

1. DESK / COUNTER AS SCHEDULED.
2. RECESSED DOUBLE GANG JUNCTION BOX WITH SINGLE GANG PLASTER RING AND COVER PLATE MOUNTED AT 18-INCHES A.F.F. (BY DIV. 26)
3. 1-INCH CONDUIT FROM JUNCTION BOX WITH 200 LBS. PULL STRING AND PLASTIC BUSHINGS ON EACH END STUBBED INTO NEAREST ACCESSIBLE CEILING.
4. 3/8-INCH FLEXIBLE METAL CONDUIT SECURELY MOUNTED TO UNDER DESK KNEE SPACE FOR SECURITY DEVICE CABLING. PROVIDE GROMMET / CLAMP CONNECTERS AND CLASPS AS REQUIRED. (BY DIV. 28)
5. DOOR RELEASE BUTTON AS SPECIFIED MOUNTED WITHIN KNEE SPACE. COORDINATE FINAL PLACEMENT AND ORIENTATION WITH OWNER (BY DIV.28)

7 / TS4.12 TYPICAL DOOR RELEASE BUTTON - UNDER DESK MOUNT

SCALE: N.T.S.

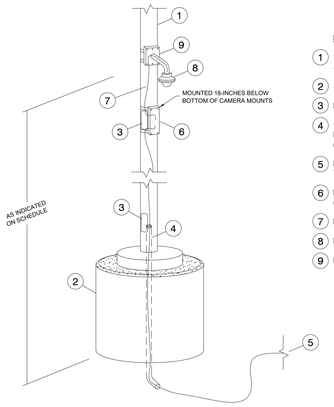


KEYED NOTES:

1. EXTERIOR WALL AS SCHEDULED.
2. 4 11/16" X 4 11/16" X 2 1/8" SQUARE JUNCTION BOX FLUSH WITH INTERIOR WALL SURFACE. POSITION BOX NO MORE THAN 18-INCHES FROM BUILDING CORNER. (BY DIV. 26)
3. NETWORK DATA CONNECTIONS. REFER TO TECHNOLOGY DRAWINGS AND SPECIFICATIONS FOR DETAILS. (BY DIV. 27)
4. 3/4-INCH CONDUIT STUB-OUT FROM JUNCTION BOX TO CORNER-MOUNT CAMERA LOCATION. COORDINATE WITH EXTERIOR FINISHES TO CONCEAL CONDUIT WITHIN WALL CAVITIES. SECURE CONDUIT STUB-OUT TO BACK OF CAMERA BRACKET WITH APPROPRIATE BUSHINGS. PROVIDE WEATHERPROOFING IN ACCORDANCE WITH CODE REQUIREMENTS. (BY DIV. 26)
5. CORNER-MOUNT CAMERA BRACKET AS SPECIFIED. (BY OWNER)
6. WALL-MOUNT CAMERA BRACKET AS SPECIFIED. (BY OWNER)
7. CAMERA GOOSENECK / PENDANT MOUNT AS SPECIFIED. (BY OWNER)
8. VIDEO SURVEILLANCE CAMERA AS SPECIFIED. (BY OWNER)

8 / TS4.12 TYPICAL EXTERIOR CORNER MOUNTED SURVEILLANCE CAMERA

SCALE: N.T.S.



KEYED NOTES:

1. SCHEDULED POLE WITH CABLE CHANNEL AS SPECIFIED (BY DIV. 26).
2. SCHEDULED POLE BASE AS SPECIFIED (BY DIV. 26).
3. POLE ACCESS POINTS (BY DIV. 26).
4. 1-INCH CONDUIT WITH 200 LBS PULL STRING AND NYLON BUSHING STUBBED UP TO ACCESS POINT (BY DIV. 26).
5. POWERED FIBER CABLE AS SPECIFIED FROM MDF/IDF TO CAMERA POLE (BY DIV. 27).
6. POWERED FIBER CABLE POE INJECTOR AS SPECIFIED (BY DIV. 27).
7. PATCH CABLES AS SPECIFIED (BY DIV. 27).
8. IP CAMERA AND MOUNTS AS SPECIFIED (BY OWNER)
9. POLE MOUNT BRACKETS AS SPECIFIED (BY OWNER)

9 / TS4.12 TYPICAL POWERED FIBER POLE MOUNTED CAMERAS

SCALE: N.T.S.

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EXPIRES 12-31-26
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RCDD
05/26/2026

ISSUED: May 26, 2026

REVISIONS

Revision No.	Revision Date

Director
Proj. Arch.
Designer CCG
Drawn By CCG

PROJECT NO.

25-0067.00

SHEET TITLE

SECURITY TYPICAL DETAILS

SHEET NO.

TS4.12

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KATY ISD NEW OPPORTUNITY AWARENESS CENTER
VIDEO SURVEILLANCE SYSTEM DEVICE SCHEDULE

DEVICE NUMBER	DEVICE TYPE	DEVICE RATING	MOUNTING	DEVICE HEIGHT (TO CENTER)	NOTES
C-E-1	OFOI 360° CAMERA	EXTERIOR	CORNER	12-FEET A.F.G.	
C-E-2	OFOI 360° CAMERA	EXTERIOR	CORNER	12-FEET A.F.G.	
C-E-3	OFOI 180° CAMERA	EXTERIOR	WALL	SEE NOTES	Center above storefront doors approx. 9FT. A.F.G.
C-E-4	OFOI 360° CAMERA	EXTERIOR	CORNER	12-FEET A.F.G.	
C-E-5	OFOI 360° CAMERA	EXTERIOR	CORNER	12-FEET A.F.G.	
C-1-1	OFOI 360° CAMERA	INTERIOR	CEILING	SEE TYPICAL DETAIL	
C-1-2	OFOI 360° CAMERA	INTERIOR	PENDANT	SEE TYPICAL DETAIL	
C-1-3	OFOI 360° CAMERA	INTERIOR	PENDANT	SEE TYPICAL DETAIL	
C-1-4	OFOI 360° CAMERA	INTERIOR	CEILING	SEE TYPICAL DETAIL	
C-1-5	OFOI 360° CAMERA	INTERIOR	PENDANT	SEE TYPICAL DETAIL	
C-1-6	OFOI 360° CAMERA	INTERIOR	CEILING	SEE TYPICAL DETAIL	
C-1-7	OFOI 360° CAMERA	INTERIOR	CEILING	SEE TYPICAL DETAIL	
C-1-8	OFOI 360° CAMERA	INTERIOR	CEILING	SEE TYPICAL DETAIL	
C-1-9	OFOI 360° CAMERA	INTERIOR	CEILING	SEE TYPICAL DETAIL	
C-1-10	OFOI 360° CAMERA	INTERIOR	CEILING	SEE TYPICAL DETAIL	
C-1-11	OFOI 360° CAMERA	INTERIOR	CEILING	SEE TYPICAL DETAIL	
C-2-1	OFOI SINGLE LENS CAMERA	EXTERIOR	WALL	9-FEET A.F.F.	

KATY ISD NEW OPPORTUNITY AWARENESS CENTER
ACCESS CONTROL SYSTEM DEVICE SCHEDULE

DEVICE NUMBER	DEVICE TYPE	MOUNTING	ASSOCIATED DOOR NUMBER	ASSOCIATED DOOR TYPE	DEVICE HEIGHT (TO CENTER)	TERMINATION POINT	NOTES
CR-1-1	CARD READER KEYPAD	MULLION	100AA	DOUBLE	46-INCHES A.F.F.	MDF M3	
CR-1-2	CARD READER	WALL	A100B	SINGLE	46-INCHES A.F.F.	MDF M3	
CR-1-3	CARD READER	WALL	100AC	SINGLE	46-INCHES A.F.F.	MDF M3	
CR-1-4	CARD READER	WALL	100A	DOUBLE	46-INCHES A.F.F.	MDF M3	
CR-1-5	CARD READER	WALL	400A	SINGLE	46-INCHES A.F.F.	MDF M3	
CR-1-6	CARD READER	WALL	100CC	SINGLE	46-INCHES A.F.F.	MDF M3	
CR-1-7	CARD READER	WALL	300	SINGLE	46-INCHES A.F.F.	MDF M3	
CR-1-8	CARD READER	WALL	100BA	DOUBLE	46-INCHES A.F.F.	MDF M3	
CR-1-9	CARD READER	WALL	100BC	DOUBLE	46-INCHES A.F.F.	MDF M3	
CR-1-10	CARD READER	WALL	200	SINGLE	46-INCHES A.F.F.	MDF M3	
CR-1-11	CARD READER	WALL	A100B	SINGLE	46-INCHES A.F.F.	MDF M3	
CR-1-12	CARD READER	WALL	N/A	N/A	48-INCHES A.F.F.	MDF M3	Arm / Disarm Reader
CR-2-1	CARD READER	WALL	M3	SINGLE	46-INCHES A.F.F.	MDF M3	
DMA-1-1	DOOR MANAGEMENT ALARM	CEILING	100AA	DOUBLE	SEE TYPICAL DETAIL	MDF M3	
DMA-1-2	DOOR MANAGEMENT ALARM	WALL	100CC	SINGLE	SEE TYPICAL DETAIL	MDF M3	
DMA-1-3	DOOR MANAGEMENT ALARM	WALL	300	SINGLE	SEE TYPICAL DETAIL	MDF M3	
DMA-1-4	DOOR MANAGEMENT ALARM	CEILING	100BA, 100BB	DOUBLE	SEE TYPICAL DETAIL	MDF M3	Interface DMA with doors 100BA and 100BB
DMA-1-5	DOOR MANAGEMENT ALARM	WALL	200	SINGLE	SEE TYPICAL DETAIL	MDF M3	
DMA-1-6	DOOR MANAGEMENT ALARM	CEILING	A100	SINGLE	SEE TYPICAL DETAIL	MDF M3	
DR-1-1	DOOR RELEASE BUTTON	UNDER DESK	400A	SINGLE	SEE TYPICAL DETAIL	MDF M3	
DR-1-2	DOOR RELEASE BUTTON	UNDER DESK	100A	DOUBLE	SEE TYPICAL DETAIL	MDF M3	
DR-1-3	DOOR RELEASE BUTTON	UNDER DESK	100AC	SINGLE	SEE TYPICAL DETAIL	MDF M3	
DR-1-4	DOOR RELEASE BUTTON	UNDER DESK	A100B	SINGLE	SEE TYPICAL DETAIL	MDF M3	
DR-1-5	DOOR RELEASE BUTTON	UNDER DESK	400A	SINGLE	SEE TYPICAL DETAIL	MDF M3	
DR-1-6	DOOR RELEASE BUTTON	UNDER DESK	100A	DOUBLE	SEE TYPICAL DETAIL	MDF M3	
DR-1-7	DOOR RELEASE BUTTON	UNDER DESK	100AC	SINGLE	SEE TYPICAL DETAIL	MDF M3	
DR-1-8	DOOR RELEASE BUTTON	UNDER DESK	A100B	SINGLE	SEE TYPICAL DETAIL	MDF M3	
IO-1-1	DOOR CONTACT	RECESSED	100BB	DOUBLE	SEE TYPICAL DETAIL	MDF M3	Provide DPDT contact. Interface with IDS. Program for monitoring of closure status on ACS
IO-1-2	DOOR CONTACT	RECESSED	100BD	DOUBLE	SEE TYPICAL DETAIL	MDF M3	Provide DPDT contact. Interface with IDS. Program for monitoring of closure status on ACS
VI-1-1	INTERCOM DOOR STATION	MULLION	100AA	DOUBLE	SEE TYPICAL DETAIL	M3	Interface with ACS for remote release

KATY ISD NEW OPPORTUNITY AWARENESS CENTER
INTRUSION DETECTION SYSTEM DEVICE SCHEDULE

DEVICE NUMBER	DEVICE TYPE	MOUNTING	DEVICE HEIGHT (TO CENTER)	TERMINATION POINT	NOTES
MD-1-1	MOTION DETECTOR - 360°	CEILING	SEE TYPICAL DETAIL	MDF M3	
MD-1-2	MOTION DETECTOR - 360°	PENDANT	SEE NOTES	MDF M3	Mount approx. 12-feet A.F.F. Coordinate with lighting.
MD-1-3	MOTION DETECTOR - 360°	PENDANT	SEE NOTES	MDF M3	Mount approx. 12-feet A.F.F. Coordinate with lighting.
MD-1-4	MOTION DETECTOR - 360°	CEILING	SEE NOTES	MDF M3	Mount to soffit centered with adjacent fixtures.
MD-1-5	MOTION DETECTOR - 360°	CEILING	SEE TYPICAL DETAIL	MDF M3	
MD-1-6	MOTION DETECTOR - 360°	CEILING	SEE TYPICAL DETAIL	MDF M3	
MD-1-7	MOTION DETECTOR - 360°	PENDANT	SEE NOTES	MDF M3	Mount approx. 12-feet A.F.F. Coordinate with lighting.
MD-1-8	MOTION DETECTOR - 360°	CEILING	SEE TYPICAL DETAIL	MDF M3	
MD-1-9	MOTION DETECTOR - 360°	CEILING	SEE TYPICAL DETAIL	MDF M3	
MD-1-10	MOTION DETECTOR - 360°	CEILING	SEE TYPICAL DETAIL	MDF M3	
MD-1-11	MOTION DETECTOR - 360°	CEILING	SEE TYPICAL DETAIL	MDF M3	
MD-1-12	MOTION DETECTOR - 360°	CEILING	SEE TYPICAL DETAIL	MDF M3	
MD-1-13	MOTION DETECTOR - 360°	CEILING	SEE TYPICAL DETAIL	MDF M3	
DC-1-1	DOOR CONTACT	RECESSED	SEE TYPICAL DETAIL	MDF M3	Provide cable only. Device by ACS installer
DC-1-2	DOOR CONTACT	RECESSED	SEE TYPICAL DETAIL	MDF M3	Provide cable only. Device by ACS installer
DC-1-3	DOOR CONTACT	RECESSED	SEE TYPICAL DETAIL	MDF M3	Provide cable only. Device by ACS installer
DC-1-4	DOOR CONTACT	RECESSED	SEE TYPICAL DETAIL	MDF M3	
DC-1-5	DOOR CONTACT	RECESSED	SEE TYPICAL DETAIL	MDF M3	Provide cable only. Device by ACS installer
DC-1-6	DOOR CONTACT	RECESSED	SEE TYPICAL DETAIL	MDF M3	Provide cable only. Device by ACS installer
DC-1-7	DOOR CONTACT	RECESSED	SEE TYPICAL DETAIL	MDF M3	Provide cable only. Device by ACS installer
DC-1-8	DOOR CONTACT	RECESSED	SEE TYPICAL DETAIL	MDF M3	Provide cable only. Device by ACS installer
KP-1-1	ALARM KEYPAD	WALL	48-INCHES A.F.F.	MDF M3	

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Director
Proj. Arch.
Designer CCG
Drawn By CCG

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NEW OPPORTUNITY AWARENESS CENTER

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