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ADDENDUM NO. 05
January 8th, 2025

To Drawings and Specifications dated December 05, 2025.

PKG 3B – GPHS ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY

Prepared by: PBK
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PBK Project No: 240539

Notice to Bidders

A. Receipt of this Addendum shall be acknowledged on the Bid Form.
B. This Addendum forms part of the Contract documents for the above referenced project and shall be incorporated integrally therewith.
C. Each bidder shall make necessary adjustments and submit his proposal with full knowledge of all modifications, clarifications, and supplemental data included therein. Where provisions of the following supplemental data differ from those of the original Contract Documents, this Addendum shall govern.

GENERAL

Item No. 01 **CSP 25-605 Phase 3B GPHS Athletics, Academic & Multi-Purpose Facility Bid Package Volume 01 –** Revised bid date to the following:

i. Base Proposals are due on January 13, 2026 at 2:00 PM C/T.
ii. Alternate Proposals and subcontractor list are due on January 13, 2026 at 3:00 PM C/T.

Item No. 02 **Pre-proposal Questions**

Question 01: Sheets A-101B, A-936. Please provide page A-936 - interior restroom elevations. The page is in the sheet index but not included in the drawings.

i. Response: Sheets A-944, A-945, A-946, A-947 contain restroom elevations for each specific RR. (Sheet A-936 has been removed from the index)

Question 02: 2/A-942 and 1&2/A-943. On interior elevations 2/A-942 and 1&2/A-943 show a pattern of what looks like CMU Block. Per 4/A-623 is list 3 5/8” CMU and 3 5/8 Sound block. What material goes here?

i. Response: Per wall section 04/A-623, the wall type at this location is 04 20 00.CV1 (3 5/8" CMU, Burnished Block) from A.F.F. to 3'-0". The upper portion of the wall, from 40'-0" to 42'-0", is 04 20 00.CV3 (3 5/8" Burnished block, sound block).

Question 03: With regards to the floor finish in the Multi-Purpose Room, if it is to be Synthetic Turf with a foam pad please confirm if there will be a concrete slab underneath it. S-101G looks to indicate this as it calls for a depressed slab but it is not totally clear.

i. Response: The floor finish of the multipurpose room will be installed in a separate phase. Exposed concrete slab only, refer to architectural & structural drawings for depression dimension.

Question 04: Please provide an interior elevation for the plan north wall in room 1111

i. Response: ADD 5, reference to 14/A-955

Question 05: Refer to 4/A-934 - Weight Room West Elevation, please clarify the signage material. Will this be painted or 3-Dimensional?

i. Response: It will be painted, updated note on elevation for ADD 5

Question 06: Addendum 1 added a chain link pedestrian gate between the existing Performing Arts Center and the new Multi-Purpose Building on sheet AS-111. Please provide the dimensions for this gate.

i. Response: Refer to revised sheet AS-101 for dimensions and hardware.

Question 07: Please provide a Masonry Spec for the Sound Block referenced in addendum 1 on the interior elevation sht.

i. Response: Refer to spec section 04 20 00 Unit Masonry, part 2.3 CONCRETE MASONRY UNITS. B. Concrete Acoustical Masonry Unit Veneer (CV3):
   a. 1. Basis of Design: Soundblox manufactured by Sound Seal.
   b. 2. Size: Refer to Drawings.

Question 08: Per Sheet A-900, room signage is to match signage from phase 2. The colors to match are not noted on the graphic standards sheet AG051. Can you provide the colors to be used?

i. Response: Reference to updated finish schedule on Sheet A-900 for PLAM selections.

Question 09: Please provide the ceiling type for the medium gray colored ceiling shown in the main corridor surround the suspended baffles. There is no item in the ceiling legend that matches that color.

i. Response: Gypsum Ceiling, painted in P2

Question 10: 10 56 13 Substitution request: Lyon Shelving.

i. Response: Lyon Shelving is an acceptable manufacturer. See approval attached.

Question 11: 10 56 13 Substitution request: Dixie Shelving.

i. Response: Dixie Shelving is an acceptable manufacturer. See approval attached.

Question 12: Elevation 1/A-933 indicates PLAM Paneling on the South Wall of the competition gym indicated by Keynote 06 20 00.PL3, but the hatch pattern looks to indicate CMU. Please clarify.

i. Response: I do not see a keynote indicating PL3. It will be all painted CMU.

Question 13: Is there a proposed route and an RCP plan for the assumed demo and reinstallation of the ceilings in the existing CTE building in relation to the sprinkler/water main install?

i. Response: Refer to plumbing and mechanical plans for proposed routing. Reference updated Arch RCP plan for lowered ceiling height (9'-0" in lieu of 10'-0") to accommodate new systems in existing CTE corridor plenum

Question 14: With regards to running the sprinkler/water main in the existing CTE to the proposed new addition in this phase, please clarify if we will be expected to sleeve/seal thru existing partitions. Please also clarify if there are any fire walls along the proposed routing that will have to be maintained/reinspected after the work.

i. Response: It is expected to sleeve/seal thru existing partitions. The connection between the existing building and new addition will require 2-hour fire rated penetrations. Refer to G-101 for rated walls.

Question 15: 10 22 39 Substitution Request: Moderco.

i. Response: Moderco is an acceptable manufacturer. See approval attached.

Question 16: Substitution request from Platinum Visual System. I have forwarded email with pdf attachments.

i. Response: Platinum Visual system did not provide product data/cutsheets to be included for review. The substitution request has been rejected.

Question 17: Door 1135A is not listed on the door schedule. Please provide.

i. Response: Provide lockset Set #125, refer to revised hardware specification attached.

Question 18: Please clarify if there will be a concrete base under the lockers and if so, please provide a detail.

i. Response: ADD 5, Please refer to Detail 15/A-935 Typical Locker base detail.

Question 19: Will the locker room benches be fixed or loose? If they are to be fixed please provide a foundation detail.

i. Response: Locker room benches are fixed by bolt down method, not coring.

Question 20: Per PF-101 and others, please confirm if demolition and removal of the fire protection system for the temporary swing spaces is in this scope of work for the bid. If so, please provide timeline for the demolition and if it will be performed in an occupied environment.

i. Response: Installation, demolition, and removal of the fire protection system for the temporary swing spaces by others (NIC) once the spaces are no longer needed. The phasing timeline to accomplish this work in accordance with the surrounding construction and to comply with NFPA shall be determined by the GC. Coordinate with the District for tie-in/cross over of utilities for when students and staff are not occupying the space.

Question 21: Please clarify if there is any casework in the Boys Sports Coaches Office (1541). Please provide elevations if these are casework items.

i. Response: No casework in the space. Countertops have been removed on ADD 5

Question 22: Regarding the Temp Band 1131 and Temp Choir 1131.3, please clarify what acoustics will be required in these rooms. Please either specify or provide elevations for these rooms.

i. Response: Acoustical wall panels have been added, refer to revised sheet xxx attached.

Question 23: The plan north elevation in the Ticket Booth (1504) is labelled incorrectly, it should read 13/A-951. Please revise.

i. Response: Plan north is not called out for an elevation, plan east location: 14/A-951, plan west location: 04/A-931

Question 24: The plan north elevation in the concessions (1505) is labelled incorrectly, it should read 18/A-951. Please revise.

i. Response: Plan north is not called out for an elevation, plan east location: 19/A-951. Plan west is referenced on both 18/A-951 for casework, 05/A-931 for wall paint colors.

Question 25: We are provided with Specification 32 18 23.18 - Knitted Nylon Synthetic Turf System with Foam Pad in the project manual. Please clarify where this applies on the project?

i. Response: Spec 31 18 23.18 to be omitted from project. Collab Flex Room 1113 flooring will have turf, refer to correct spec 09 65 66 Resilient Athletic Flooring attached.

Question 26: On Sheet A-101F, the elevation tag in PLC/Work Room (1133) has us refer to Elevations 10 & 13 on Sheet A-951. These are not the correct elevations for this

room. Please clarify and provide the elevations as it does not look like they are given anywhere in the casework elevation sheets.

i. Response: Plan north elevation location: 10/A-951, plan east elevation location: 13/A-951

Question 27: A-101H has an elevation tag that has us refer to 03/A-501. This appears to be incorrect. Please clarify.

i. Response: Corrected with elevation 02/A-506

Question 28: A-940 Temp Band room 1131 references sheet A-940 which is not contained in this drawing set. Please provide sheet A-940.

i. A-940 Temp Band room 1131 references sheet A-940 which is not contained in this drawing set. Please provide sheet A-940.

Question 29: Are the As-Builts for the existing buildings to be demolished? Specifically, the structural foundations as well as any incoming utilities (i.e. electrical, plumbing, site utilities, etc).

i. Response: All utility lines shall be properly disconnected, terminated, and capped. Utility lines serving the existing field house shall be removed within a 10-foot perimeter of the proposed Athletics Building footprint.

ii. Existing structural piers shall be carefully removed to minimize disturbance to the surrounding natural soil subgrade. Refer to the attached drawings for pier sizes and locations. For bidding purposes, assume all existing piers extend 10 feet below the existing field house finished floor elevation.

iii. Bidders shall include the cost of reinstating disturbed subgrade as follows: All soil disturbed during foundation removal shall be excavated and removed from the site. Backfill from the excavation bottom up to approximately 4 feet below the bottom of the proposed shallow footings shall consist of cement-stabilized sand or excavatable flowable fill. Select fill shall be placed above the cement-stabilized sand or excavatable flowable fill to final grade. Attached are the existing site MEP and foundation conditions for existing field house.

Question 30: Specifications for Overhead Counter Doors (08 33 13) notes doors to be galvanized steel with stainless steel finish. The door schedule however indicates that they are to be aluminum with clear anodized finish. Please confirm door curtain material and finish. -Specifications for Overhead Coiling Doors (08 33 23) notes doors to be galvanized steel with powder coat finish in Dark Bronze. The door schedule however indicates that they are to be aluminum with clear anodized finish. Please confirm door curtain material and finish. -Door 1100B (Bi Folding Door) is included on the door schedule with no sizing provided. It is still noted to be included on floor plan A101C but is not shown on the exterior elevation A502. Is this door intended to still be on the project and at what size

i. Response: Overhead Counter Doors are aluminum with clear anodized finish per out schedule, refer to ADD 05. Overhead Coiling Doors are galvanized steel with powder coat finish in Dark Bronze per specification, refer to ADD 05. 1100B dimensions have been adjusted ref to ADD 05

Question 31: Sheet A-102C, Room 2147 has door numbers 2147A, 2147B, 2147.1A & 2147.1B shown but aren’t on the door schedule. (Doors are in frames SF-06). Please clarify door types.

i. Response: Doors 2147A, 2147B, 2147.1A & 2147.1B added to the door schedule

Question 32: Sheet A102E, Room 2113 has doors 2113A, 2113B, 2113.1A & 2113.1B shown but aren't on door schedule. (Doors are in frame CW-19). Please Clarify Door Types.

i. Response: Doors 2113.1A, 2113.1B, 2113A & 2113B added to the door schedule

Question 33: Specification 07 72 33 subpart 2.2 A states for the roof hatch to be 2'-6" X 4'-6", however subpart 2.2 F lists model S-50TB which is 2'-6" X 3'-0". Please confirm the design intent.

i. Response: Refer to revised spec 07 72 33 stating correct size.

Question 34: Please clarify the material for the HRL railing. Will it be stainless or painted?

i. Response: Railing systems to be stainless steel except in mechanical rooms. Refer to specification 05 73 00.

Question 35: Ref. Door Schedule, A-810. Please provide the missing information for doors: FSD1-17, FS24-30.

i. Response: Refer to revised sheet A-810.

Question 36: Please clarify if all the walls in the multi-purpose room are per the elevations shown on A942 & A943. We ask this because per these elevations, most of the walls are CMU with brick veneer being only applied on the east wall. Elevation 2 shows all CMU but there is a section callout on A-102D that refers us to detail 6/A623 which shows brick veneer.

i. Response: Detail has been updated to show the correct material detail 04/A-726. Refer to ADD 05.

Question 37: 12 21 13, 12 24 00 Please provide locations on the drawings for horizontal louver blinds, faux wood blinds, and roller window shades.

A. Response: See general note added to sheet A-821 and A-102A for clarification.

1. Exterior windows at classrooms:
   - 2" faux wood blinds including door vision lites (offices + classroom doors)
2. Interior windows:
   - no treatment where there is a sliding marker board (classrooms)
   - 2" faux wood blinds including door vision lites (offices)
3. Competition Gym clerestory:
   - Motorized roller shades

Question 38: The plans indicate (3) 12'-0" Wide x 6'-0" Tall double swing ornamental gates. Maglin has advised that double swing gates are not available as a standard offering got the Yellow Flex System. Please confirm whether the gate design can be revised to align with Maglin's standard gate options, which include: Single Swing Gates Only, Max Sizes of 4' x 4' or 6' x 4', Left or right hand operation, push or pull. The manufacturer requires this information to verify system feasibility and to pre-configure the modular panels before issuing a formal quote.

i. Response: In lieu of custom gates from Maglin, gates to be provided by Renfrow + Co. Contact Christian Carter @ 214-971-0426 (christian@renfrowco.com) and send gate details / quantity for formal quote. Design intent and dimensions to remain.

SPECIFICATIONS

Item No. 1 04 20 00 UNIT MASONRY

A. CV1 & CV2 sizes updated from 16x8 to 24x12

Item No. 2 07 72 33 ROOF SCUTTLE (HATCH)

A. Added the revised specifications

Item No. 3 08 33 13 COILING COUNTER DOOR

A. Finish changed to match the door schedule aluminum with clear anodized

Item No. 4 08 33 43 FIRE AND SMOKE RATED CURTAINS

A. Replaced in its entirety

Item No. 5 08 71 00 DOOR HARDWARE

A. Revised the spec to reflect changes made to the door schedule in ADD 01.
- Added card readers, fire rating and blinds to the vision lites on type NV-1
- Updated hardware for the gates added on AS-111 (ADD05)

Item No. 6 08 80 00 – GLAZING

A. **2.3 MATERIALS**

1. Added the following information for each glazing type.

GI1: Solarban® 70 on Solarbronze® 6mm (2) | Air 1/2" (12.7mm) | Clear 6mm

1. Thickness – 1”
2. Transmittance UV – 3%
3. Transmittance Visible – 39%
4. Transmittance Total Solar – 14%
5. Exterior Solar Reflectance – 20%
6. Exterior Visible Reflectance – 8%
7. Interior Visible Reflectance – 13%
8. U-Value (Winter Nighttime) (Btu/hr*ft2*°F) – 0.28
9. U-Value (Summer Daytime) (Btu/hr*ft2*°F) – 0.26
10. Shading Coefficient (SC) – 0.23
11. Solar Heat Gain Coefficient (SHGC) – 0.20
12. Light To Solar Gain (LSG) – 1.95
13. Thermal Stress Risk (If annealed glass) – High

GL1: Solarban® 70 on Solarbronze® 6mm (2) | Air 1/2" (12.7mm) | 6mmClear_060PVB_6mmClear

1. Thickness – 1 1/4"
2. Transmittance UV – 0%
3. Transmittance Visible – 37%
4. Transmittance Total Solar – 13%
5. Exterior Solar Reflectance – 20%
6. Exterior Visible Reflectance – 8%
7. Interior Visible Reflectance – 12%
8. U-Value (Winter Nighttime) (Btu/hr*ft2*°F) – 0.28
9. U-Value (Summer Daytime) (Btu/hr*ft2*°F) – 0.26
10. Shading Coefficient (SC) – 0.23
11. Solar Heat Gain Coefficient (SHGC) – 0.20
12. Light To Solar Gain (LSG) – 1.85
13. Thermal Stress Risk (If annealed glass) – High

GI2: Solarban® 70 on Solarbronze® 6mm (2) | Air 1/2" (12.7mm) | 6mmClear_060PVB_6mm100%Etch(6)Clear

1. Thickness – 1 1/4”
2. Transmittance UV – 0%
3. Transmittance Visible – 36%

4. Transmittance Total Solar – 13%
5. Exterior Solar Reflectance – 20%
6. Exterior Visible Reflectance – 8%
7. Interior Visible Reflectance – 12%
8. U-Value (Winter Nighttime) (Btu/hr*ft2*°F) – 0.28
9. U-Value (Summer Daytime) (Btu/hr*ft2*°F) – 0.26
10. Shading Coefficient (SC) – 0.23
11. Solar Heat Gain Coefficient (SHGC) – 0.20
12. Light To Solar Gain (LSG) – 1.80
13. Thermal Stress Risk (If annealed glass) – High

GL2: Solarban® 70 on Solarbronze® 6mm (2) | Air 1/2" (12.7mm) | 6mm50%White(3)Clear_060PVB_6mm100%Gray(6)Clear

1. Thickness – 1 1/4”
2. Transmittance UV – 0%
3. Transmittance Visible – 1%
4. Transmittance Total Solar – 0%
5. Exterior Solar Reflectance – 22%
6. Exterior Visible Reflectance – 13%
7. Interior Visible Reflectance – 26%
8. U-Value (Winter Nighttime) (Btu/hr*ft2*°F) – 0.28
9. U-Value (Summer Daytime) (Btu/hr*ft2*°F) – 0.26
10. Shading Coefficient (SC) – 0.16
11. Solar Heat Gain Coefficient (SHGC) – 0.14
12. Light To Solar Gain (LSG) – 0.07
13. Thermal Stress Risk (If annealed glass) – High

GG1L: Clear 6mm

1. Thickness – 1/4”
2. Transmittance UV – 66%
3. Transmittance Visible – 89%
4. Transmittance Total Solar – 77%
5. Exterior Solar Reflectance – 7%
6. Exterior Visible Reflectance – 8%
7. Interior Visible Reflectance – 9%
8. U-Value (Winter Nighttime) (Btu/hr*ft2*°F) – 1.02
9. U-Value (Summer Daytime) (Btu/hr*ft2*°F) – 0.92
10. Shading Coefficient (SC) – 0.94
11. Solar Heat Gain Coefficient (SHGC) – 0.82
12. Light To Solar Gain (LSG) – 1.09
13. Thermal Stress Risk (If annealed glass) – Low

GS1: Solarban® 70 on Solarbronze® 6mm (2) | Air 1/2" (12.7mm) | 100% Gray frit (4) on 6mm Clear

1. Thickness – 1”
2. Transmittance UV – 0%
3. Transmittance Visible – 2%
4. Transmittance Total Solar – 1%
5. Exterior Solar Reflectance – 20%
6. Exterior Visible Reflectance – 10%
7. Interior Visible Reflectance – 26%
8. U-Value (Winter Nighttime) (Btu/hr*ft2*°F) – 0.28
9. U-Value (Summer Daytime) (Btu/hr*ft2*°F) – 0.26
10. Shading Coefficient (SC) – 0.19
11. Solar Heat Gain Coefficient (SHGC) – 0.16
12. Light To Solar Gain (LSG) – .13
13. Thermal Stress Risk (If annealed glass) – High

GG2: Clear 1" inch

1. Thickness – 1"
2. Transmittance UV – 0%
3. Transmittance Visible – 79%
4. Transmittance Total Solar – 70%
5. Exterior Solar Reflectance – 15%
6. Exterior Visible Reflectance – 15%
7. Interior Visible Reflectance – 15%
8. U-Value (Winter Nighttime) (Btu/hr*ft2*°F) – 0.47
9. U-Value (Summer Daytime) (Btu/hr*ft2*°F) – 0.45
10. Shading Coefficient (SC) – 0.70
11. Solar Heat Gain Coefficient (SHGC) – 0.70
12. Light To Solar Gain (LSG) – 1.13
13. Thermal Stress Risk (If annealed glass) – High

Item No. 7 09 65 66 RESILIENT ATHLETIC FLOORING

A. Added Indoor turf athletic flooring (PRA-3)

Item No. 8 09 84 00 ACOUSTIC ROOM COMPONENTS

A. Revised the BOD for ARC 11,12 & 13, as well as the type.

Item No. 9 10 22 39 FOLDING PANEL PARTITIONS

A. Replaced in its entirety.

Item No. 10 23 09 93 – SEQUENCES OF OPERATION FOR HVAC CONTROLS

A. Add the following general notes:

1. During all phases of construction, existing sequences associated with relocated air-cooled chiller CH-01 (serving existing CTE building) shall remain as is.
2. If **Unify** is accepted, the controls contractor shall integrate the new system with the existing system serving the CTE building. All existing sequences shall remain unchanged.
3. If **ALC** is accepted, the controls contractor shall upgrade the existing CTE building controls and integrate the new modular central plant controls to align with the existing sequences.
4. The existing CTE building, modular central plant, athletics, academic, and multipurpose facilities shall all be managed under a single unified control system.

B. Section 5: Remove AHU-A2-01 & AHU-B2-01 from the list.

C. Section 6: Add AHU-A2-01 & AHU-B2-01 to the list.

D. Section 10: Remove Outside Air & Exhaust Air Flow control points.

E. Section 39: Add the following sequence of operation for the OAHU-MP-01.

Equipment Control Points

Discharge air temperature – AI
Cooling coil discharge air temperature - AI
Pre-heat coil discharge air temperature – AI
Core leaving air temperature – AI
Core entering air temperature - AI
Outside air flow – AI
Exhaust air flow – AI
Duct Static Pressure – AI
Supply fan status – DI
Exhaust fan status – DI
Freeze alarm – freeze stat mounted upstream of CHW coil – DI
Static pressure high limit switch – DI

Supply Fan start/stop – DO
Exhaust fan start/stop – DO
CHW valve control - AO
HW pre-heat valve control - AO
Supply fan speed control – AO
Exhaust fan speed control – AO
Outdoor air damper – AO
RA damper – AO
Exhaust damper – AO
UV Light – DO

Unit Activation

When the outdoor air handling unit is requested to run by an air handler it serves, the Building Automation System (B.A.S.) shall first open the outdoor air damper and the actuator's internal end switch will close when the damper is open allowing the outdoor air unit to be started. The B.A.S. shall send a signal to the outdoor air handling unit inverter, which will start the fan. An airflow sensing switch shall prove status to the B.A.S. and shall alarm at the central site if the switch is not made within 20 seconds (operator adjustable). There shall also be a 10 second (operator adjustable) de-bounce time to prevent nuisance alarms from a bouncing switch. The outdoor air damper shall be fully open before the outdoor air handling unit fan can be energized in either the hand or auto position.

Fan Control

When the air handler is requested to run, the B.A.S. control module will send signal to the air handler inverter, which will energize the fan. An airflow sensing switch will prove status to the Building Automation System (BAS) and alarm the central site if the switch is not made within 20 seconds (operator adjustable). There will also be a 10 second (operator adjustable) de-bounce time to prevent nuisance alarms from a bouncing switch. A run request will be sent to the Chilled Water System when the air-handling unit is active, and cooling is required.

Temperature Control

When outdoor air handling unit is active, and heating is required a duct temperature sensor mounted downstream of the pre-heat coil will modulate pre-heat valve to maintain the operator adjustable pre-heat discharge air temperature set point of 55^0F (adjustable). If cooling is required a duct temperature sensor mounted in the unit's supply air stream shall monitor the unit's supply air temperature and modulate the chilled water valve to maintain the operator adjustable discharge air temperature set point. The operator shall be able to select if the supply air cooling set point shall be reset based on the outside air temperature or use an operator adjustable set point of 55^0F. The outside air temperature reset schedule shall be a linear reset schedule with initial setpoints of 58^0F supply air at 60^0F outside air temperature and 55^0F supply air at 75^0F. The pre-heat control shall be disabled if the outside air temperature is greater than 55^0F and the supply air cooling control shall be disabled if the outside air temperature is less than 53^0F. All of the values shall be operator adjustable.

A manual reset freeze stat mounted in the discharge air stream of the pre-heating coil. If the freeze stat trips the BAS shall open the HW and CHW control valves to 50% (adjustable), close the outdoor air damper, de-energize the outdoor air unit

fan, energize a secondary chilled water pump, a secondary hot water pump and boilers (see heating water sequence of operation), and alarm at the central site if the leaving air temperature drops to 34°F (locally adjustable). The freeze stat must be manually reset once the temperature rises above the trip point.

Supply Fan Air Volume Control

While the air handling unit is active, the BAS shall maintain the duct static pressure setpoint at 1.5" w.g. (adjustable, final setpoint to be determined by TAB contractor) by modulating the speed of the supply fan through a variable speed drive (VSD). A static pressure sensor mounted two-thirds down the longest duct run shall monitor the duct static pressure. A manual-reset static pressure high limit switch shall monitor the static pressure of the supply duct. If the duct static pressure rises above 3.0" w.g. (locally adjustable) the air handling unit shall be de-energized via hard-wire interlock to the VFD safety circuit. The BAS shall monitor the high static limit switch and shall display an alarm at the central site. The static pressure high limit switch must be manually reset.

Exhaust Fan Air Volume Control

Outside and exhaust shall be measured by the airflow measuring station and reported to the BAS. Exhaust fan to track and offset supply air cfm to maintain positive building pressure.

Associated Equipment

During the occupied time period, the outside air damper shall be open. The exhaust fans associated with the air handler shall also be energized only during the occupied time period. The outside air dampers shall remain closed & exhaust fans shall remain off, even during a scheduled occupancy time based on a global command from a shelter in place (building shutdown) button activation or based on a summer mode schedule.

An airflow switch shall monitor the pressure across the air filter. A contact closure from the air filter switch will alarm and notify maintenance through the B.A.S. of a dirty filter.

The UV light shall have an occupancy/vacancy schedule similar to the associated AHU. UV light shall not turn on during unoccupied mode.

Equipment off Conditions

When the outdoor air-handling unit is off, it's chilled and heating water valves shall be closed and the outdoor air damper shall also be closed. If the outside air temperature drops below 34°F (operator adjustable), the B.A.S. shall open both chilled and hot water valves to 50% (adjustable) and the secondary pumps shall run for freeze protection.

Item No 01 27 51 23.80 - LOCAL SOUND REINFORCING SYSTEMS

A. Between section 2.20 – MULTIPURPOSE SPACE 1100 and PART 3 – EXECUTION, Added section 2.21 AUXILIARY GYMNASIUM A & B.
B. Called out equipment required for installation of local sound in Auxiliary gymnasiums.

Item No 02 28 31 00 - FIRE DETECTION AND NOTIFICATION SYSTEM

A. Removed Section 1.4 ACCEPTABLE MANUFACTURERS > B. which noted SilentKnight as an alternative. No exceptions to notifier will be accepted.
B. Amended section 2.3 COMPONENTS > N. Single Ended Reflected Type Beam Smoke Sensor with Remote Test Switch > 1. & 2.
1. Removed mention of Silent Knight compatible products to notifier-specific models.

DRAWINGS

CIVIL

Item No. 01 C003 DEMOLITION PLAN
A. Add demolition items for installation of central plant as shown
B. Add demolition items for installation of pump house as shown
C. Add demolition items for installation of 8” fire line as shown
D. Add striping of exist. grass area as shown
E. Revise demolition for 6” fire line as shown

Item No. 02 C101 SITE PLAN
A. Add Bollards as shown
B. Revise sidewalk and fence as shown

Item No. 03 C102 DIMENSIONAL CONTROL PLAN
A. Refer added Dimension for central plant

Item No. 04 C103 FIRE APPARATUS PLAN
A. Add Fire Lane restriping as shown

Item No. 05 C201 UTILITY PLAN
A. Add 8” fire line as show
B. Revise 6” domestic line and 6” fire line as shown
C. Add sanitary lead for central plant as shown
D. Add 16” steel casing around exist. 8” sanitary as shown
E. Revise 6” sanitary line at north as shown
F. Updated top of rim elevations

Item No. 06 C 301 DRAINAGE PLAN
A. Omit the removal of the existing manhole and instead include bolting of the existing storm manhole as indicated
B. Update flowlines as shown
C. Updated top of rim elevations

Item No. 07 C 402 PAVING PLAN
A. Replace asphalt with 7” conc. pavement for Bus drop off as shown

Item No. 08 C 601 DETAILS
A. Add details as shown

Item No. 09 C 602 DETAILS
A. Add details as shown

Item No. 10 C 603 DETAILS
A. Add details as shown

LANDSCAPE

Item No. 01 L1.01 GRADING AND DRAINAGE PLAN
A. Spot elevations updated
B. (3) Box culvert inlets removed
C. (2) catch basins added in paving
D. (1) Landscape drain added

Item No. 02 L1.03 GRADING AND DRAINAGE PLAN ENLARGEMENTS

A. Spot elevation updated to respond to the slight tweaks in the stair and ramp configurations

Item No. 03 L2.01 MATERIALS PLAN

A. Planting and seating modules removed to resolve conflict with overhead door
B. Keynotes updated to respond to the slight tweaks in the stair and ramp config.

Item No. 04 L2.02 MATERIALS PLAN

A. Refer to clouds for updates

Item No. 05 L2.03 MATERIALS PLAN ENLARGEMENTS

A. Keynote updated to respond to the slight tweaks in the stair and ramp config

Item No. 06 L4.01 PLANTING PLAN

A. Planting eliminated at the planting modules that were removed.

Item No. 07 L4.03 PLANTING PLAN ENLARGEMENTS

A. Planting adjusted to respond to the slight tweaks in the stair and ramp config

STRUCTURAL

Item No. 01 S-011: General Notes

A. Updated design criteria verbiage as shown on the sheet
B. Updated wind design pressures

Item No. 02 S-013: General Subgrade Notes and Typical Details

A. Modified subgrade preparation notes

Item No. 03 SD-101A: Foundation Demo Plan - Area A

A. Modified demolition note verbiage as shown on the sheet

Item No. 04 SD-101B: Foundation Demo Plan - Area B

A. Modified demolition note verbiage as shown on the sheet

Item No. 05 SD-101M: Foundation Demo Plan – Existing Mechanical Yard

A. Modified demolition note verbiage as shown on the sheet

Item No. 06 S-101A: Foundation Plan - Area A

A. Added plinth plan note
B. Modified exterior planter, ramp and stair locations as well as their respective foundations as shown on the sheet
C. Modified foundation as shown on the sheet

Item No. 07 S-101B: Foundation Plan - Area B

A. Added plinth plan note
B. Extended grade beams along grids GL and GS
C. Modified foundation as shown on the sheet

Item No. 08 S-101C: Foundation Plan - Area C

A. Added plinth plan note
B. Modified exterior planter, ramp and stair locations as well as their respective foundations as shown on the sheet
C. Modified foundation as shown on the sheet

Item No. 09 S-101D: Foundation Plan - Area D

A. Added plinth plan note
B. Modified foundation as shown on the sheet

Item No. 10 S-101E: Foundation Plan - Area E

A. Added plinth plan note
B. Modified exterior planter, ramp and stair locations as well as their respective foundations as shown on the sheet
C. Modified foundation as shown on the sheet

Item No. 11 S-101F: Foundation Plan - Area F

A. Added plinth plan note
B. Modified foundation as shown on the sheet

Item No. 12 S-101G: Foundation Plan - Area G

A. Added plinth plan note
B. Modified foundation as shown on the sheet

Item No. 13 S-101M: Foundation Plan - Miscellaneous

A. Modified foundation as shown on the sheet

Item No. 14 S-102C: Second Floor Framing Plan - Area C

A. Modified framing as shown on the sheet
B. Added annotation for bottom flange bracing per note 13 as shown on the sheet

Item No. 15 S-102D: Second Floor Framing Plan - Area D

A. Modified framing as shown on the sheet
B. Added annotation for bottom flange bracing per note 13 as shown on the sheet

Item No. 16 S-102E: Second Floor Framing Plan - Area E

A. Modified framing as shown on the sheet
B. Added annotation for bottom flange bracing per note 13 as shown on the sheet

Item No. 17 S-102F: Second Floor Framing Plan - Area F

A. Modified framing as shown on the sheet
B. Added annotation for bottom flange bracing per note 13 as shown on the sheet

Item No. 18 S-103A: Third Floor Low Roof Framing Plan - Area A

A. Added note for joist extensions

Item No. 19 S-103C: Third Floor Framing Plan - Area C

A. Modified framing as shown on the sheet
B. Added annotation for bottom flange bracing per note 13 as shown on the sheet

Item No. 20 S-103D: Third Floor and Low Roof Framing Plan - Area D

A. Modified framing as shown on the sheet
B. Added annotation for bottom flange bracing per note 13 as shown on the sheet

Item No. 21 S-103E: Third Floor Framing Plan - Area E

A. Modified framing as shown on the sheet
B. Added annotation for bottom flange bracing per note 13 as shown on the sheet

Item No. 22 S-103F: Third Floor and Low Roof Framing Plan - Area F

A. Modified framing as shown on the sheet
B. Added annotation for bottom flange bracing per note 13 as shown on the sheet
C. Added annotation for column bracing per 5/S-502 as shown on the sheet

Item No. 23 S-104A: Gym Low Roof Framing Plan - Area A

A. Added annotation for bottom flange bracing per note 13 as shown on the sheet

Item No. 24 S-104C: Gym Low Roof Framing Plan - Area C

A. Added annotation for bottom flange bracing per note 13 as shown on the sheet
B. Added additional load notes per note 14 as shown on the sheet
C. Modified framing as shown on the sheet

Item No. 25 S-104D: Classroom Low Roof and Floor Framing Plan - Area D

A. Added annotation for bottom flange bracing per note 13 as shown on the sheet
B. Added additional load notes per note 14 as shown on the sheet
C. Modified framing as shown on the sheet

Item No. 26 S-104E: Classroom Low Roof Framing Plan - Area E

A. Added annotation for bottom flange bracing per note 13 as shown on the sheet
B. Added additional load notes per note 14 as shown on the sheet
C. Modified framing as shown on the sheet

Item No. 27 S-104F: Classroom Low Roof and Floor Framing Plan - Area F

A. Added annotation for bottom flange bracing per note 13 as shown on the sheet
B. Added additional load notes per note 14 as shown on the sheet
C. Added annotation for column bracing per 5/S-502 as shown on the sheet

Item No. 28 S-105B: Gym High Roof Framing Plan - Area B

A. Added annotation for bottom flange bracing per note 13 as shown on the sheet

Item No. 29 S-105G: Classroom High Roof Framing Plan - Area G

A. Added annotation for bottom flange bracing per note 13 as shown on the sheet

Item No. 30 S-302: General Grade Beam Notes and Typical Details

A. Modified Grade beam schedule as shown on the sheet

Item No. 31 S-303: General Foundation Notes and Typical Details

A. Removed 2/S-303
B. Modified Straight shaft pier information
C. Modified Straight Shaft Pier schedule

Item No. 32 S-303SF: General Foundation Notes and Typical Details

A. Modified spread footing information
B. Modified Continuous Footing Schedule

Item No. 33 S-311: Foundation Details

A. Modified Detail 9/S-311

Item No. 34 S-312: Foundation Details

A. Modified Detail 7/S-312
B. Added Detail 9/S-312

Item No. 35 S-320: Site Items Foundation Sections and Details

A. Modified Details 3 & 4/S-320
B. Added Detail 8/S-320

Item No. 36 S-321: Site Items Foundation Sections and Details

A. Modified Detail 4 & 8/S-320

Item No. 37 S-504: General Steel Notes and Typical Details

A. Modified Detail 1/S-504

Item No. 38 S-508: General Steel Notes and Typical Details

A. Modified Detail 5, 6 & 7/S-508

Item No. 39 S-512: Composite Framing Details

A. Modified Detail 5 & 8/S-512

Item No. 40 S-514: Composite Framing Details

A. Modified Detail 4, 5, 7, 8, 9 & 10/S-514

Item No. 41 S-600: Typical Wind Bracing Elevations - Area A

A. Modified bracing
B. Provided Worst Case LC axial values

Item No. 42 S-601: Typical Wind Bracing Elevations - Area A

A. Provided Worst Case LC axial values

Item No. 43 S-602: Typical Wind Bracing Elevations - Area A

A. Modified bracing
B. Provided Worst Case LC axial values

Item No. 44 S-603: Typical Wind Bracing Elevations - Area A

A. Modified bracing
B. Provided Worst Case LC axial values

Item No. 45 S-604: Typical Wind Bracing Elevations - Area A

A. Modified bracing
B. Provided Worst Case LC axial values

Item No. 46 S-605: Typical Wind Bracing Elevations - Area A

A. Modified bracing
B. Provided Worst Case LC axial values

Item No. 47 S-606: Typical Wind Bracing Elevations - Area A

A. Modified bracing
B. Provided Worst Case LC axial values

Item No. 48 S-607: Typical Wind Bracing Elevations - Area A

A. Modified bracing

B. Provided Worst Case LC axial values

ROOFING (BEAM)

Item No. 01 A-323 – ROOFING DETAILS

A. Added detail 14: flashing for the mechanical platform

ARCHITECTURAL

Item No. 01 AS-111 – SITE PLAN

A. Added detail 02
B. Added callout of detail 01
C. Added the gate schedule

Item No. 02 ASD-101 – LEVEL 01 – DEMOLITION SITE PLAN

A. Added existing aluminum canopy and keynote for it to be removed and re-installed.

Item No. 03 AD-101 – LEVEL 01 – DEMOLITION PLAN

A. Revised the extents of exterior metal panel demolition

Item No. 04 G-101 – 1st FLOOR CODE REVIEW

A. Marked points of exit access and exit discharge, highlighting exit / exit door widths
B. Updated occupancy load for the competition gym and MPF
C. Added occupancy load division across exits, marking required width and showing proposed width of exit.

Item No. 05 G-102 – 2nd FLOOR CODE REVIEW

A. Marked points of exit access and exit discharge, highlighting exit / exit door widths
B. Added occupancy load division across exits, marking required width and showing proposed width of exit.

Item No. 06 G-103 – 3rd FLOOR CODE REVIEW

A. Marked points of exit access and exit discharge, highlighting exit / exit door widths
B. Added occupancy load division across exits, marking required width and showing proposed width of exit.

Item No. 07 A-101A – Level 01- AREA A FLOOR PLAN

A. Added ADA spaces on each side of the competition gym per TAS comments.

Item No. 08 A-101B – Level 01- AREA B FLOOR PLAN

A. Added the cane detection rail below stair 01 and stair 02
B. Countertops removed from Room 1541
C. Exterior wall recess extended across custodial room 1527
D. The slab/floor in the corridor plan south of custodial 1527 is sloped down 5” towards the door C1508 (in order to improve exterior condition at the edge of the running track)
E. Added CMU jamb extension

Item No. 09 A-101C – Level 01- AREA C FLOOR PLAN

A. Added the cane detection rail below stair 05
B. Added dimensions where necessary
C. Added an OHCG in the corridor – 3116.9
    1. All Hardware by Door Manufacturer.

Item No. 10 A-101D – Level 01- AREA D FLOOR PLAN

A. Added the cane detection rail below stair 06

Item No. 11 A-101E – Level 01- AREA E FLOOR PLAN

A. Added the cane detection rail below stair 09

Item No. 12 A-101F – Level 01- AREA F FLOOR PLAN

A. Detail 01: Added missing tags for metal shelving in schoolbook room (1127)
B. Revised qty of metal shelving on the equipment sched.
C. Added elevation markers in room 1131.3 temp choir and room 1131 temp band.
D. Added an OHCG on the main street – 3116.2

1. All Hardware by Door Manufacturer.
2. Overhead door in PH2 has been moved to Grid C12 (A101i)

Item No. 13 A-102A – Level 02 AREA A FLOOR PLAN

A. Revised ceiling at custodial 1527 to match plan change
B. Added keynote for motorized shades.

Item No. 14 A-102D – Level 02- AREA D FLOOR PLAN

A. Extended chase to accommodate plumbing, lab table adjusted accordingly

Item No. 15 A-102F – Level 02- AREA F FLOOR PLAN

A. Added dashed line for the exterior soffit.

Item No. 16 A-103D – Level 03- AREA D FLOOR PLAN

A. Extended chase to accommodate plumbing, lab table adjusted accordingly

Item No. 17 A-201 – LEVEL 1- OVERALL CEILING PLAN

A. Lowered existing ceiling in corridor to 9'-0'
B. 1113 & 1150 collab/flex space changed from can to pendant lights

Item No. 18 A-201A – LEVEL 1- AREA A CEILING PLAN

A. Removed type 4 & 5 from the ceiling materials legend

Item No. 19 A-201B – LEVEL 1- AREA B CEILING PLAN

A. Updated ceiling and adjusted the spacing between light fixtures.
B. Added dimensions where necessary
C. Revised ceiling at custodial 1527 to match plan change
D. Added can light to exterior soffit
E. Removed type 4 & 5 from the ceiling materials legend

Item No. 20 A-201C – LEVEL 1- AREA B CEILING PLAN

A. Removed type 4 & 5 from the ceiling materials legend

Item No. 21 A-201D – LEVEL 1- AREA B CEILING PLAN

A. Removed type 4 & 5 from the ceiling materials legend

Item No. 22 A-201E – LEVEL 1- AREA B CEILING PLAN

A. Removed type 4 & 5 from the ceiling materials legend

Item No. 23 A-201F – LEVEL 1- AREA B CEILING PLAN

A. Removed type 4 & 5 from the ceiling materials legend
B. Lowered ceiling to 9'-0'

Item No. 24 A-201G – Level 1- AREA G CEILING PLAN

A. Respaced the can lights – plan west of MPF
B. Updated the pendant lights to be surface mounted in the vestibule 1135
C. Removed type 4 & 5 from the ceiling materials legend

Item No. 25 A-202 – LEVEL 2- OVERALL CEILING PLAN

A. 2113 & 2147 collab/flex space changed from can to pendant lights

Item No. 26 A-202A – LEVEL 2- AREA A CEILING PLAN

A. Light fixture on either end of the exterior soffit shifted away from the panel joint
B. Removed type 4 & 5 from the ceiling materials legend
C. Added a note for motorized zipper tension blackout shade system to the skylights in the comp gym.

Item No. 27 A-202B – LEVEL 2- AREA B CEILING PLAN

A. Removed type 4 & 5 from the ceiling materials legend

Item No. 28 A-202C – LEVEL 2- AREA C CEILING PLAN

A. Removed type 4 & 5 from the ceiling materials legend

Item No. 29 A-202D – LEVEL 2- AREA D CEILING PLAN

A. Removed type 4 & 5 from the ceiling materials legend

Item No. 30 A-202E – LEVEL 2- AREA E CEILING PLAN

A. Removed type 4 & 5 from the ceiling materials legend

Item No. 31 A-202F – LEVEL 2- AREA F CEILING PLAN

A. Removed type 4 & 5 from the ceiling materials legend

Item No. 32 A-203 – LEVEL 3- OVERALL CEILING PLAN

A. 3700A & 3700B collab/flex space changed from can to pendant lights

Item No. 33 A-203B – LEVEL 3 - AREA B CEILING PLAN

A. Removed type 4 & 5 from the ceiling materials legend

Item No. 34 A-203C – LEVEL 3 - AREA C CEILING PLAN

A. Adjusted dimensions

Item No. 35 A-203D – LEVEL 3 - AREA D CEILING PLAN

A. Removed type 4 & 5 from the ceiling materials legend

Item No. 36 A-203E – LEVEL 3 - AREA E CEILING PLAN

A. Removed type 4 & 5 from the ceiling materials legend

Item No. 37 A-203F – LEVEL 3 - AREA F CEILING PLAN

A. Removed type 4 & 5 from the ceiling materials legend

Item No. 38 A-203G – LEVEL 3 - AREA G CEILING PLAN

A. Removed type 4 & 5 from the ceiling materials legend

Item No. 39 A-403 – ENLARGED FLOOR PLAN

A. Extended chase to accommodate plumbing

Item No. 40 A-406 – ENLARGED TOILET PLANS

A. Detail 01: Flipped the door to the ADA stalls (for both 1542 and 1532.), to not be directly opposite to the WC per TAS comments
B. Detail 02/03/04/05: Adjusted dimensions, added a wingwall against the paper towel dispenser for cane detection compliance, flipped the door for the ADA stall to not be directly opposite to the WC per TAS comments.
C. Added dimensions

Item No. 41 A-407 – ENLARGED TOILET PLANS

A. Detail 01/02/04/05: Adjusted dimensions, added a wingwall against the paper towel dispenser for cane detection compliance, flipped the door for the ADA stall to not be directly opposite to the WC per TAS comments.
B. Added dimensions

Item No. 42 A-420 – ENLARGED STAIR PLANS & SECTIONS

A. Detail 02: The wall mounted linear light fixtures increased to 6’ on stair 01
B. Detail 01/03/05: Added a 4” cane detection rail below the stairs.

Item No. 43 A-421 – ENLARGED STAIR PLANS & SECTIONS

A. Detail 02: The wall mounted linear light fixtures increased to 6’ on stair 02

Item No. 44 A-422 – ENLARGED STAIR PLANS & SECTIONS

A. Detail 02/03: The wall mounted linear light fixtures increased to 6’ on stair 03
B. Detail 04/05: Added a 4” cane detection rail below the stairs.
C. Detail 01: Added dimensions

Item No. 45 A-423 – ENLARGED STAIR PLANS & SECTIONS

A. Detail 02/03/11: The wall mounted linear light fixtures increased to 6’ on stair 05
B. Detail 01/05/06/08/13: Added a 4” cane detection rail below stairs 04/05.
C. Detail 06: Additional dimensions added.

Item No. 46 A-424 – ENLARGED STAIR PLANS & SECTIONS

A. Detail 09: The wall mounted linear light fixtures increased to 6’ on stair 06

Item No. 47 A-425 – ENLARGED STAIR PLANS & SECTIONS

A. Detail 01/11/12: Added a 4” cane detection rail below stairs.
B. Detail 02: The wall mounted linear light fixtures increased to 6’ on stair 07

Item No. 48 A-426 – ENLARGED STAIR PLANS & SECTIONS

A. Detail 01/05: Added a 4” cane detection rail below stairs.
B. Detail 02: The wall mounted linear light fixtures increased to 6’ (from 4’) on stair 09

Item No. 49 A-428 – STAIR DETAIL

A. Updated detail 05 with PLAM finish.

Item No. 50 A-504 – EXTERIOR ELEVATIONS

A. Detail 02: Updated control joint layout.
B. Updated elevation to match plan change at custodial 1527

Item No. 51 A-505 – EXTERIOR ELEVATIONS

A. Detail 02: revised control joint layout

Item No. 52 A-602 – OVERALL BUILDING SECTION

A. Added detail tag - 10/A-422

Item No. 53 A-603 – BUILDING SECTION

A. Detail 02/03: Added detail tag 13/A-713

Item No. 54 A-605 – BUILDING SECTION

A. Detail 04/06: updated sill details

Item No. 55 A-623 – BUILDING SECTION

A. Basketball goals adjusted to be 10’-0” from F.F.
B. Detail 05: Updated detail 13/A-723
C. Wall moved by 1" to avoid conflict with structure.
D. Updated head detail on section 06

Item No. 56 A-628 – WALL SECTION

A. Revised detail tag 13/A-713 on section 01 & 02

Item No. 57 A-701 – PLAN DETAILS

A. Replaced ‘fireproofing’ with intumescent coating
B. Updated masonry tie details and adjusted the placement
C. Detail 07: Removed “07 81 23.IIC”

Item No. 58 A-703 – PLAN DETAILS

A. Detail 09: Added dimension to the drinking fountain

Item No. 59 A-713 – METAL PANEL WALL SECTIONS

A. Updated detail 13 – Wall section @ EJ at roof (new and existing)

Item No. 60 A-723 – PLAN DETAILS

A. Added detail 13 – Curtainwall sill @ Slab & modular brick CFMF interior

Item No. 61 A-731 – CEILING DETAILS

A. Added Detail 18

Item No. 62 A-810 – DOOR SCHEDULE LEVEL 1

A. 1515C & 1520.1A material to be powder coated
B. Added dimensions to 1100B
C. Added new door – 3116.2 and 3116.9
D. Added doors FSD 1-17
E. Corrected FS 24-30

Item No. 63 A-811 – DOOR SCHEDULE LEVEL 2 & 3

A. Added to the schedule: Door #s 2147A, 2147B, 2147.1A & 2147.1B (collab/flex room) Type: FG-1
B. Added to the schedule: Door #s 2113.1A, 2113.1B, 2113A & 2113B (collab/flex room) Type: FG-1

Item No. 64 A-812 – DOOR – PANEL AND FRAME TYPES

A. Added panel type for the vertically folding glass door.

Item No. 65 A-821 – Window and Store front elevations

A. Added general notes for window shades, blinds and sills.

Item No. 66 A-842 – CURTAIN WALL ELEVATIONS

A. CW-20 height changed to 24'-8"

Item No. 67 A-900 – FINISH SCHEDULE

A. Updated interior finish legend

Item No. 68 A-933 – INTERIOR ELEVATIONS

A. Detail 04: Added a note for painted lettering.

Item No. 69 A-934 – INTERIOR ELEVATIONS

A. Detail 15: Added new detail – typ. locker base detail.

Item No. 70 A-935 – INTERIOR ELEVATIONS

A. Detail 15: Added new detail – typ. locker base detail.
B. Added locker tags

Item No. 71 A-939 – INTERIOR ELEVATIONS

A. Sheet added in its entirety

Item No. 72 A-940 – INTERIOR ELEVATIONS

A. Sheet added in its entirety.

Item No. 73 A-941 – INTERIOR ELEVATIONS

A. Updated CJ and AWP on elevations 04 and 07

Item No. 74 A-942 – INTERIOR ELEVATIONS

A. Added CJ
B. Fixed Railing and Panel Spacing for Railing
C. Detail 02: Interior multipurpose-West: CW-20 aligned to the CMU coursing

Item No. 75 A-943 – INTERIOR ELEVATIONS

A. Added CJ
B. Fixed Railing and Panel Spacing for Railing

Item No. 76 A-955 – INTERIOR ELEVATIONS

A. Detail 14: Added north elevation for room 1111.

Item No. 77 AG-051 – SIGNANE GRAPHIC STANDARDS

A. Updated PLAM keynote on signage

MECHANICAL

Item No. 01. MD-100 – MECHANICAL DEMO SITE PLAN

1) Added demolishing of Heat Exchanger 6” CHS/R lines going through CTE building. Added keynotes 4 through 8 regarding demolition of HX loop.

Item No. 02. MD-101H - 1ST FLOOR MECHANICAL DEMO PLAN - AREA H - CTE

1) Updated location of central plant shown on floor plan.

Item No. 03. M-101A - 1ST FLOOR MECHANICAL PLAN - AREA A NEW GYM FLOOR PLAN

1) Changed supply cfm to both restrooms. They were not updated when number of fixtures went from 11 to 10.
2) Updated temp sensors for AHU-A2-01, AHU-A2-02, and AHU-A2-03.

Item No. 04. M-101B - 1ST FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN

1) Added Keynote 13 for HWS/R piping going up to floor above.
2) Shifted EF-B1-01 and associated louver due to louver interference with column/gridline shift.
3) Updated Linear diffuser layout in Corridor. Added Keynote 14 and 15 regarding layout/placement.
4) Updated size of CVB-B1-02-01 ductwork.
5) Added missing temp sensors to FCU-IDF-1524.1, FCU-IDF-1545, and FCU-PUMP-ROOM.
6) Updated temp sensor for AHU-B1-01 for weight room.
7) Added missing return grille in 1543-Boys Laundry.
8) Adjusted air terminals and ductwork serving 1527-Custodial.

Item No. 05. M-101C - 1ST FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

1) Removed extra unnecessary return grilles in exterior classrooms
2) Updated keynote 4. Added tag showing exhaust duct size on plans.
3) Changed Keynote 7 to “NOT USED” since it was not on the plans.

4) Moved badly misaligned supply diffusers in 1149-English#5
5) Updated placement of linear diffusers in corridor outside Collab. Flex Room. Removed keynote 9.
6) Updated Refrigerant line routing for FCU-IDF-1162.

Item No. 06. M-101D - 1ST FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

1) Removed extra unnecessary return grilles in some classrooms
2) Updated Linear diffuser layout in Corridor. Added Keynote 7 and 8 regarding layout/placement.
3) Shifted CVB-d1-01-10 so it was not above a light. Adjusted hydronic piping and ductwork accordingly.
4) Relocated temp sensor for CVB-D1-01-09.
5) Updated location of refrigerant piping going up to floor above for FCU-IDF-1138.

Item No. 07. M-101E - 1ST FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

1) Updated cfm tag for supply diffuser in 1103-Life Skills
2) Added missing air transfer opening keynote for 1108.1-Storage
3) Revised Key plan.
4) Updated placement of linear diffusers in corridor outside Collab. Flex Room. Removed keynote 9.
5) Updated location of refrigerant piping going up to 2nd floor from FCU-IDF-1106

Item No. 08. M-101F - 1ST FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

1) Corrected supply cfm in 1132.1-Testing Office
2) Added keynote 8 regarding supply air duct going up to floor above in temp band room
3) Updated Linear diffuser layout in Corridor. Added Keynote 9 regarding layout/placement
4) Removed extra air transfer opening in 1131.3-Temp Choir
5) Added keynote 10 for exhaust duct going up to second floor.
6) Updated temp sensor for AHU-F2-02 serving 1131-Temp Band/Library.

Item No. 09. M-101H - 1ST FLOOR MECHANICAL PLAN - AREA H - CTE

1) Updated location of central plant Pkg 3C shown on floor plan. Updated connection to it as a result.
2) Removed connection of HX loop into Main CHS/R lines in CTE corridor.

Item No. 010. M-102A – 2ND FLOOR MECHANICAL PLAN - AREA A NEW GYM FLOOR PLAN

1) Added keynote 5 regarding coordination of ductwork for gym going thru structural joist.

Item No. 011. M-102B – 2ND FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN

1) Updated Linear Diffuser Layout in all main corridors. Added keynote 17 and 18 regarding linear diffuser placement.
2) Added keynote 16 for hydronic piping going up to mechanical mezzanine.
3) Updated diffuser placements in 2502-Stairs 01 and 2509-Stairs 02. Added return register type A to each stairwell too
4) Added missing fire damper for SA ductwork to C2512-skybridge that was accidentally deleted in addendum 03.
5) Updated temp sensor in 2506-Team Lounge for AHU-B2-01.
6) Updated Supply CFM in 2506-Team Lounge.
7) Added supply air terminal in 2503-Custodial. Increase exhaust CFM also in custodial since area increased.
8) Updated exhaust and supply air ductwork going up to mechanical mezzanine above.
9) Routed refrigerant lines from FCU-IDF-1524.1 through provided chase surrounding column wrap in 2511-Testing Storage RM.
10) Reconfigured diffuser layout for 2513-STAIRS 04 by GYM B

Item No. 012. M-102C - 2ND FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

1) Updated wrong CFM on SA Grille in 2158-Electrical
2) Added missing diffuser tags on SA diffusers for 2155.1-Storage and 2156-Specialist.
3) Updated placement of linear diffuser in corridor outside Collab. Flex Room. Removed keynote 11.
4) Updated Refrigerant line routing for FCU-IDF-1162 from below up to roof to share plumbing chase.

Item No. 013. M-102D - 2ND FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

1) Updated Linear Diffuser Layout in all main corridors. Added keynote 6,7, and 8 regarding linear diffuser placement.
2) Added missing keynote 1 in 2142-Social Studies
3) Added missing temp sensor for VAV-D2-01-01 in 2136-Electrical.
4) Updated location of refrigerant piping going up from 1st floor to roof for FCU-IDF-1138

Item No. 014. M-102E - 2ND FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

1) Updated placement of linear diffuser in corridor outside Collab. Flex Room. Removed keynote 10.
2) Added missing temp sensor for VAV-E2-01-01 in electrical room.
3) Updated location for routing of refrigerant piping for FCU-IDF-1106.

Item No. 015. M-102F - 2ND FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

1) Updated Linear Diffuser Layout in all main corridors. Added keynote 7, 8, and 9 regarding linear diffuser placement.
2) Removed return grille in 2117-Stair 07 left over when Stairwells were serviced by FCUs.
3) Added missing diffuser tag in 2130-Math
4) Added keynote 4 to refrigerant lines in chase by Main Street
5) Updated temp sensor for FCU-IDF-2125
6) Added missing temp sensor for VAV-F2-01-01 serving electrical room.

Item No. 016. M-103B - 3RD FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN

1) Added keynote 3 and labeling for refrigerant lines from 2nd floor up roof.
2) Moved duct serving storage rooms by GYM A to inside the storage room.
3) Added keynote 4 regarding coordination of ductwork for gym going between structural joists.
4) Adjusted refrigerant lines coming from FCU-IDF-1524.1.
5) Reconfigured diffuser layout for 3132-STAIRS 03 by GYM B.

Item No. 017. M-103C - 3RD FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

1) Updated CFM of supply grille in 3148-Electrical to match schedule.
2) Updated supply diffuser tag in 3141-Chem from TYP.6 to TYP.3
3) Added missing keynote 1 to return air openings.
4) Updated Refrigerant line routing for FCU-IDF-1162 from below up to roof to share plumbing chase.
5) Updated temp sensor for ALL CVBs on third floor to only be temp sensor.

Item No. 018. M-103D - 3RD FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

1) Updated Linear Diffuser Layout in main corridor. Added keynote 11,12, and 13 regarding linear diffuser placement.
2) Added missing keynote 1 to return air openings.
3) Added missing keynote 10 to CVB taps on CVB-D3-01-05 and CVB-D3-01-06

4) Updated CFM for Supply Air Grille in 3133-ELEC to match schedule.
5) Updated location of refrigerant piping going down to FCU-IDF-1138 to share plumbing chase.
6) Updated temp sensor for ALL CVBs on third floor to only be temp sensor.
7) Updated tap to exhaust grille in 3140-Chemistry Lab due to structural conflicts.
8) Relocated single supply diffuser from CVB-C3-01-06A that was conflicting with large 54”x20” exhaust duct.

Item No. 019. M-103E - 3RD FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

1) Updated key plan on TTB.
2) Added missing Temp sensor for VAV-E3-01-01 in 3105-Electrical.
3) Updated location of refrigerant piping going down to second floor for FCU-IDF-1106.
4) Added missing return grille in 3104-Bio Lab
5) Updated temp sensor for ALL CVBs on third floor to only be temp sensor.

Item No. 020. M-103F - 3RD FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

1) Updated Linear Diffuser Layout in main corridor. Added keynote 11,12, and 13 regarding linear diffuser placement.
2) Updated ductwork size for CVB-F3-01-03A.
3) Updated temp sensor for ALL CVBs on third floor to only be temp sensor.
4) Added missing temp sensor for VAV-F3-01-01.
5) Relocated single supply diffuser from CVB-C3-01-06A that was conflicting with large” x20” exhaust duct.

Item No. 021. M-103G - 3RD FLOOR MECHANICAL PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

1) Removed all keyed notes and labeling that were shown on the corridor and classrooms on project south area of area G, refer to M-103D and M-103F for keyed notes and labeling in that area.
2) Added keynote 1 to one of the main ducts of the MP field that was missing.
3) Added duct continuation symbol to ductwork from MP field leading to 400-Mech.
4) Revised keynote 1 to include exposed NON-fabric duct being double wall.

Item No. 022. M-201 – ENLARGED TEMPORARY MECHANICAL PLAN

1) Demolished heat exchanger, heat exchanger pump, heat exchanger pump VFD, and heat exchanger CHS/R lines. Edited keynote 13 and 14 pertaining to demolition.
2) Relocated hot water expansion tanks and chemical treatment pad to less obtrusive location now that heat exchanger loop will be demolished. Updated keynote 5 for location.

Item No. 023. M-202 – ENLARGED MECHANICAL PLAN

1) Updated floor plan after demolition HX loop on M-201. Updated keynote 5 and 6 as a result.
2) Updated floor plan after different locations of boiler expansion and chemical treatment tank in

Item No. 024. M-203 – ENLARGED MECHANICAL PLAN

1) Removed Motorized damper on intake side of OAHU-C1-01, OAHU-D1-01, OAHU-E1-01, and OAHU-F1-01.

Item No. 025. M-204 – ENLARGED MECHANICAL PLAN

1) Updated the Revit Models for OAHU-E3-01 and OAHU-C3-01. They were not updated the last time we got reselections.

Item No. 026. M-205 – ENLARGED MECHANICAL PLAN

1) Updated OAHU-MP-01 layout since it needed energy recovery per 2015 IECC for the AHUs serving the indoor field.
2) Increase louver size. See keynote updated keynote 14

3) Replaced left most Relief hood to an intake hood (IH-MP-01) serving OAHU-MP-01. It also shifted it.
4) Updated name of right most relief hood to RH-MP-01 from 02. It also shifted slightly.
5) Offset hydronic piping a little due to larger size of OAHU-MP-01.
6) Added keynote 17 for providing double wall ductwork for exposed ductwork serving field.
7) Added AFMS to OA ductwork of AHU-MP-01 and AHU-MP-01. Also added AFMS to exhaust ductwork of OAHU-MP-01.
8) Added keynote 18 for transitioning RTU-MP-01 and 02 ductwork to single wall, externally wrapped ductwork inside the bldg.
9) Added condensate piping portable piping supports on floor plan and keynote for RTU condensate drain lines.
10) Added missing label for RTU SERVICE PLATFORM for RTU-MP-02
11) Removed motorized and volume damper from intake side of OAHU-B1-02.
12) Updated OA ductwork coming out of OAHU-B1-02.

Item No. 027. M-206 – ENLARGED MECHANICAL PLAN

1) Updated wrong keynote label for Refrigerant lines coming from first floor up to the roof.
2) Removed motorized and volume damper from OAHU-B1-03.
3) corrected mislabeled keynote from keynote 4 to 5 on exhaust duct going up to floor above on 01:M-206.

Item No. 028. M-207 – ENLARGED MECHANICAL PLAN

1) Removed volume and motorized dampers on OAHU-B3-01, OAHU-B1-01, and OAHU-A2-01.
2) Added keynote 16 to exposed ductwork serving gym areas.
3) Adjusted EF-B2-01 ductwork,
4) Adjusted ductwork from AHU-B3-02 going down to serve the two storage rooms by gym A. Added fire damper to keynote 14.
5) Added missing motorized and volume damper for OA duct serving AHU-B2-01.

Item No. 029. M-301 - MECHANICAL ROOF PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERAL FLOOR PLAN

1) updated RH-MP-01 to an intake hood IH-MP-01. Shifted slightly too.
2) Renamed RH-MP-02 to RH-MP-01. Shifted slightly too.

Item No. 030. M-401 - MECHANICAL PIPING DIAGRAM

1) Added 3-way valves to OAHU-MP-01, AHU-MP-01, and AHU-MP-02 so minimum flow through a single chilled water pump is maintained.
2) Removed heat exchanger loop from piping diagram.

Item No. 031. M-402 - MECHANICAL PIPING DIAGRAM

1) Added 3-way valves to OAHU-B1-03, AHU-C3-01, and AHU-A2-01 so minimum flow through a single chilled water pump is maintained.

Item No. 032. M-403 - MECHANICAL PIPING DIAGRAM

1) A

Item No. 033. M-404 - MECHANICAL PIPING DIAGRAM

1) Corrected mislabeled tag for AHU-MP-02.
2) Added 3-way valves to AHU-MP-01, OAHU-MP-01, and AHU-MP-02 so minimum flow through a single hot water pump is maintained.

Item No. 034. M-405 - MECHANICAL PIPING DIAGRAM

1) Added 3-way valves to AHU-A2-03 and OAHU-B1-02 so minimum flow through a single hot water pump is maintained.

Item No. 035. M-501 - MECHANICAL SCHEDULES

1) Updated “MODULAR INDOOR CENTRAL-STATION AIR-HANDLING UNIT SCHEDULE” with the following:
i. Removed OAHU-MP-01 since it was updated with an Energy Recovery Core.

ii. Removed Schedule Note 12(regarding heating in the re-heat position) to all Single Duct VAV AHUs since heating is taken care at the CVBs.

iii. Tweaked the supply CFMs for most of the AHUs.

Item No. 036. M-502 - MECHANICAL SCHEDULES

1) Updated “MODULAR INDOOR CENTRAL-STATION OUTSIDE AIR-HANDLING UNIT WITH ENERGY CORE SCHEDULE” with OAHU-MP-01.
2) Added schedule note 23 to RTU-MP-01 and RTU-MP-02 regarding control panel requirements.
3) Added schedule note 20 to stairwell RTUs regarding control panel requirements.
4) Updated schedule note 6 to stairwell RTUs for all evaporator and condenser coils being microchannel. Coils shall be fully dipped and epoxy coated.

Item No. 037. M-503 - MECHANICAL SCHEDULES

1) Went through all the CVBs and adjusted the cfms accordingly.
2) Updated Ductless Mini-split Schedule for the ATHL BLDG with the following changes.
   i. Removed FCU-STAIRS-B1 that was left over from switch to RTUs in the Stairwells
   ii. Corrected the names of mini split units and some room names they were serving.

Item No. 038. M-504 - MECHANICAL SCHEDULES

1) Removed RH-MP-02 from “HVAC GRAVITY VENTILATOR SCHEDULE”
2) Added IH-MP-01 to “HVAC GRAVITY VENTILATOR SCHEDULE”
3) Corrected some ACCU’s naming in the “DUCTLESS MINI-SPLIT….MPF BLDG” schedule.
4) Increased cfm of EF-B2-01 from 820 to 840 cfm since custodial room area increased.

Item No. 039. M-602 - MECHANICAL DETAILS

1) Replaced detail #5 from ceiling cassette detail to “FUME HOOD EXHAUST FAN DETAIL”
2) Replaced detail #11 from AHU 2-way coil kits (2.5” or larger) to “COIL PIPING ACCESSORIES WITH 3-WAY VALVE…”

Item No. 040. M-604 - MECHANICAL DETAILS

1) Added missing details number 4 through 14.

ELECTRICAL

Item No. 01. E-101B - 1ST FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN

A. Added circuit for elevator
B. Updated receptacle location

Item No. 02. E-101C - 1ST FLOOR POWER PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Added circuit for mechanical equipment
B. Electrical equipment name correction
C. Added power for security grill

Item No. 03. E-101D - 1ST FLOOR POWER PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated mechanical equipment location

Item No. 04. E-101F - 1ST FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY

A. Added power for security grill

Item No. 05. E-101H - 1ST FLOOR POWER PLAN - AREA H - CTE

A. Added additional demolished piece of equipment

Item No. 06. E-102A -2ND FLOOR POWER PLAN - AREA A NEW GYM FLOOR PLAN

A. Added additional demolished piece of equipment

Item No. 07. E-102B - 2ND FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN

A. Added receptacles for sound rack

Item No. 08. E-102F - 2ND FLOOR POWER PLAN - AREA F NEW GYM FLOOR PLAN

A. Electrical Equipment name correction

Item No. 09. E-103C - 3RD FLOOR POWER PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Added utility controller power
B. Updated receptacle location to conform to latest benchtop layout
C. Updated keyed notes

Item No. 010. E-103D - 3RD FLOOR POWER PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Added utility controller power
B. Updated receptacle location to conform to latest benchtop layout
C. Updated keyed notes

Item No. 011. E-103E - 3RD FLOOR POWER PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated receptacle location to conform to latest benchtop layout
B. Updated keyed notes

Item No. 012. E-103F - 3RD FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated receptacle location to conform to latest benchtop layout
B. Updated keyed notes

Item No. 013. E-201A - 1ST FLOOR LIGHTING PLAN - AREA A NEW GYM FLOOR PLAN

A. Updated lighting contactors
B. Updated switching competition gym

Item No. 014. E-201B - 1ST FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN

C. Updated lighting contactors
D. Added fixture labeling
E. Updated stairwell lighting

Item No. 015. E-201C - 1ST FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated lighting contactors
B. Update collab lighting

Item No. 016. E-201D - 1ST FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated lighting contactors
B. Updated main street circuiting

Item No. 017. E-201E - 1ST FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated lighting contactors
B. Updated canopy lighting circuiting
C. Updated collab lighting

Item No. 018. E-201F - 1ST FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated lighting contactors
B. Added can lights to room
C. Updated main street circuiting

Item No. 019. E-201G - 1ST FLOOR LIGHTING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated control group E fixtures and circuiting

Item No. 020. E-202A - 2ND FLOOR LIGHTING PLAN - AREA A NEW GYM FLOOR PLAN

A. Added daylight zone control
B. Updated emergency power circuiting
C. Clarified fixture grouping and control

Item No. 021. E-202B - 2ND FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN

A. Updated stairwell lighting
B. Updated lighting contactors
C. Updated emergency circuiting

Item No. 022. E-202C - 2ND FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated lighting contactors
B. Updated hallway and Collab lighting

Item No. 023. E-202D - 2ND FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated hallway and main street lighting and circuiting

Item No. 024. E-202E - 2ND FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated hallway and collab lighting

Item No. 025. E-202F - 2ND FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated lighting contactors
B. Updated hallway lighting

Item No. 026. E-203B - 3RD FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN

A. Updated emergency lighting circuit
B. Added daylight control to auxiliary gyms

Item No. 027. E-203C - 3RD FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated lighting contactors
B. Updated collab lighting

Item No. 028. E-203D - 3RD FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated emergency circuit

Item No. 029. E-203E - 3RD FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated lighting contactors
B. Updated collab lighting

Item No. 030. E-203F - 3RD FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Updated lighting contactors
B. Updated stairwell lighting

Item No. 031. E-203G - 3RD FLOOR LIGHTING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Added daylight control groups
B. Updated emergency circuiting

Item No. 032. E-402 - ENLARGED ELECTRICAL PLAN

A. Updated circuiting for IDF room

Item No. 033. E-502 - ELECTRICAL RISER DIAGRAM

A. Added feeder for Fire Pump building panel

Item No. 034. E-601 - ELECTRICAL CONTACTOR SCHEDULE

A. Updated contactor schedule
B. Updated lighting schedule

Item No. 035. EP-700 - ELECTRICAL PANEL SCHEDULES

A. Updated panel schedules to match drawing changes

Item No. 036. EP-704 - ELECTRICAL PANEL SCHEDULES

A. Updated panel schedules to match drawing changes

Item No. 037. EP-705 - ELECTRICAL PANEL SCHEDULES

A. Updated panel schedules to match drawing changes

Item No. 038. EP-706 - ELECTRICAL PANEL SCHEDULES

A. Updated panel schedules to match drawing changes

Item No. 039. EP-707 - ELECTRICAL PANEL SCHEDULES

A. Updated panel schedules to match drawing changes

Item No. 040. EP-708 - ELECTRICAL PANEL SCHEDULES

A. Updated panel schedules to match drawing changes

Item No. 041. EP-709 - ELECTRICAL PANEL SCHEDULES

A. Updated panel schedules to match drawing changes

Item No. 042. EP-710 - ELECTRICAL PANEL SCHEDULES

A. Updated panel schedules to match drawing changes

Item No. 043. EP-713 - ELECTRICAL PANEL SCHEDULES

A. Updated panel schedules to match drawing changes

Item No. 044. ES-101 - ELECTRICAL SITE PLAN

A. Updated lighting contactors
B. Updated site lighting to conform to latest landscaping plan

Item No. 045. ES-101A - ELECTRICAL SITE PLAN - ENLARGED VIEWS

A. Added fire pump building and associated panelboard
B. Updated site lighting to conform to latest landscaping plan

PLUMBING

Item No. 01. PD-101 – PLUMBING DEMO SITE PLAN

A. Revise note of abandoning 6” fire water dry line to instead refer to Civil for scope of work.

Item No. 02. PS-101 – PLUMBING SITE PLAN

A. Revise note of abandoning 6” fire water dry line to instead refer to Civil for scope of work.
B. Clarify that the 8” underground fire water routing from the pump house to the package 3B central plant shall be by Civil and to refer to Civil for exact routing.
C. Clarify coordination notes to state that the Contractor shall saw cut as required to route new systems as shown underground, and coordinate with existing underground systems and the Civil drawings as required. Patch and repair concrete to match existing conditions, refer to Civil details for pavement repairs.

Item No. 03. PF-101 – 1ST FLOOR FIRE PROTECTION PLAN

A. Clarify that the 8” underground fire water routing from the pump house to the package 3B central plant shall be by Civil and to refer to Civil for exact routing.
B. Clarify coordination notes to state that the Contractor shall saw cut as required to route new systems as shown underground, and coordinate with existing underground systems and the Civil drawings as required. Patch and repair concrete to match existing conditions, refer to Civil details for pavement repairs.
C. Add standpipe note to provide prime and paint of exposed standpipe components in the stairwell.
D. Clarify that the temporary swing space sprinkler protection shall be by others (NIC). Phasing shall be determined by the GC.

Item No. 04. PF-102 – 2ND FLOOR FIRE PROTECTION PLAN

A. Add standpipe note to provide prime and paint of exposed standpipe components in the stairwell.

Item No. 05. PF-103 – 3RD FLOOR FIRE PROTECTION PLAN

A. Add standpipe note to provide prime and paint of exposed standpipe components in the stairwell.

Item No. 06. PU-101E – 1ST FLOOR PLUMBING UNDERFLOOR PLAN – AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Shift piping connection to align with shifted sink location in 18+ STUDENTS 1111.

Item No. 07. PU-101F – 1ST FLOOR PLUMBING UNDERFLOOR PLAN – AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Add note clarifying connection of sump pump ejected waste to waste main.

Item No. 08. P-101B – 1ST FLOOR PLUMBING PLAN – AREA B NEW GYM FLOOR PLAN

A. Revise one (1) SH – 1 to be SH – 2 instead in GIRLS PE RR & SHOWER 1530.1.
B. Revise two (2) SH – 2 to be SH – 1 instead in W COACHES LOCKER/SHOWER 1529.1.
C. Revise two (2) SH – 2 to be SH – 1 instead in M COACHES LOCKER/SHOWER 1541.1.

Item No. 09. P-101D – 1ST FLOOR PLUMBING PLAN – AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Clarify that the temporary swing space sprinkler protection shall be by others (NIC). Phasing shall be determined by the GC.

Item No. 010. P-101E – 1ST FLOOR PLUMBING PLAN – AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Shift piping connection to align with shifted sink location in 18+ STUDENTS 1111.

Item No. 011. P-101F – 1ST FLOOR PLUMBING PLAN – AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

A. Clarify that the temporary swing space sprinkler protection shall be by others (NIC). Phasing shall be determined by the GC.

Item No. 012. P-101GT – 1ST FLOOR PLUMBING PLAN – AREA G – TEMPORARY SWING SPACES

A. Clarify that the temporary swing space sprinkler protection shall be by others (NIC). Phasing shall be determined by the GC.

TECHNOLOGY

Item No 01 TF-101D - 1ST FLOOR FIRE ALARM PLAN - AREA D - MP FACILITY FLOOR PLAN

A. Replace sheet in its entirety.
B. Added relay for emergency operation of overhead coiling grille.

Item No 02 TF-101F - 1ST FLOOR FIRE ALARM PLAN - AREA F - MP FACILITY FLOOR PLAN

A. Replace sheet in its entirety.
B. Added relay for emergency operation of overhead coiling grille.
C. Adjusted wall mounted speaker strobe position to accommodate overhead coiling grille.

Item No 03 TN-101B - 1ST FLOOR TECHNOLOGY PLAN -AREA B - GYM FLOOR PLAN

A. Replace sheet in its entirety.
B. Added card reader to FREIGHT 1511 elevator.
C. Added Camera to cover landing in STAIR 03 1550.
D. Added Camera to cover landing in STAIR 04 1536.

Item No 04 TN-101C - 1ST FLOOR TECHNOLOGY PLAN -AREA C - MP FACILITY FLOOR PLAN

A. Replace sheet in its entirety.
B. Added Camera to cover landing in STAIR 05 1161.

Item No 05 TN-101D - 1ST FLOOR TECHNOLOGY PLAN -AREA D - MP FACILITY FLOOR PLAN

A. Replace sheet in its entirety.
B. Added Camera to cover landing in STAIR 06 1144.
C. Added door contacts to VESTIBULE 1135 doorways.

Item No 06 TN-101E - 1ST FLOOR TECHNOLOGY PLAN -AREA E - MP FACILITY FLOOR PLAN

A. Replace sheet in its entirety.

B. Added Camera to cover landing in STAIR 09 1101.

Item No 07 TN-101F - 1ST FLOOR TECHNOLOGY PLAN -AREA F - MP FACILITY FLOOR PLAN

A. Replace sheet in its entirety.
B. Added Camera to cover landing in STAIR 07 1118.
C. Added Card Reader to ELEV. 1126.
D. Added TYPE 2 Ceiling mount camera to TESTING / STORAGE 1132.
E. Added Card Reader to exterior door of TESTING OFFICE 1132.1.

Item No 08 TN-102B - 2ND FLOOR TECHNOLOGY PLAN - AREA B - GYM FLOOR PLAN

A. Replace sheet in its entirety.
B. Added AUXILIARY GYM A 2510 & AUXILIARY GYM B 2513 AV KEYNOTES section.
   1. Added keynote 14 to section calling out conduit pathway to local sound rack.
   2. Added keynote 15 calling out power requirements and backpan conduit routing requirements for local sound rack.
C. Added local sound speaker and wall-mounted elements to AUXILIARY GYM A.
D. Added local sound speaker and wall-mounted elements to AUXILIARY GYM B.
E. Added local sound rack to TESTING STORAGE 2511.
F. Added callout for local sound rack enlarged plan.
G. Added Card reader to FREIGHT 2504 Elevator.
H. Added Card reader and door contact to TEAM LOUNGE 2506.
I. Added Camera to cover landing in STAIR 03 2512.3.
J. Added Camera to cover landing in STAIR 04 2513.

Item No 09 TN-102C – 2ND FLOOR TECHNOLOGY PLAN -AREA C - MP FACILITY FLOOR PLAN

A. Replace sheet in its entirety.
B. Added Camera to cover landing in STAIR 05 2157.

Item No 10 TN-102D – 2ND FLOOR TECHNOLOGY PLAN -AREA D - MP FACILITY FLOOR PLAN

A. Replace sheet in its entirety.
B. Added Camera to cover landing in STAIR 06 2141.

Item No 11 TN-102E – 2ND FLOOR TECHNOLOGY PLAN -AREA E - MP FACILITY FLOOR PLAN

A. Replace sheet in its entirety.
B. Added Camera to cover landing in STAIR 09 2101.

Item No 12 TN-102F – 2ND FLOOR TECHNOLOGY PLAN -AREA F - MP FACILITY FLOOR PLAN

A. Replace sheet in its entirety.
B. Added Camera to cover landing in STAIR 07 2117.
C. Added Card Reader to ELEV. 2120.

Item No 13 TN-103C – 3RD FLOOR TECHNOLOGY PLAN -AREA C - MP FACILITY FLOOR PLAN

A. Replace sheet in its entirety.
B. Added Camera to cover landing in STAIR 05 3151.

Item No 14 TN-103D – 3RD FLOOR TECHNOLOGY PLAN -AREA D - MP FACILITY FLOOR PLAN

A. Replace sheet in its entirety.
B. Added Camera to cover landing in STAIR 06 3136.

Item No 15 TN-103E – 3RD FLOOR TECHNOLOGY PLAN -AREA E - MP FACILITY FLOOR PLAN

A. Replace sheet in its entirety.

B. Added Camera to cover landing in STAIR 09 3101.

Item No 16 **TN-103F - 3RD FLOOR TECHNOLOGY PLAN - AREA F - MP FACILITY FLOOR PLAN**

A. Replace sheet in its entirety.
B. Added card readers on interior and exterior for badge-in/badge-out access to plan south door in CORRIDOR C3700.1.
C. Added Door contact to plan south door in CORRIDOR C3700.1.
D. Adjusted interior camera angle to account for door.
E. Added TYPE 1 exterior camera to plan south door in CORRIDOR C3700.1.
F. Added Camera to cover landing in STAIR 07 3114.
G. Added Card Reader to ELEV. 3118.

Item No 17 **T-405 - TECHNOLOGY SECTIONS - LOCAL SOUND RACKS**

A. Replace sheet in its entirety.
B. Added detail 6 - 2ND FLOOR TECHNOLOGY PLAN – TESTING STORAGE 2511 LOCAL SOUND RACK ENLARGED.
C. Added detail 7 - TESTING STORAGE 2511 AUX GYM A & B LOCAL SOUND RACK ELEVATION.

END OF ADDENDUM NO. 05

01/08/2026

Proposal Checklist

Project:	Galena Park High School Package 3B (Academics, MP, and Athletics)
Project #:	B104
Total Project Budget:	$110,000,000
Pre-Proposal Conference:	Galena Park ISD Administration Building 14705 Woodforest Blvd, Houston, TX 77015 December 10, 2025 at 10:00 AM Attendance is highly recommended.
Proposal Opening Location:	Galena Park ISD Administration Building 14705 Woodforest Blvd, Houston, TX 77015
Proposal Deadline:	January 13, 2026 at 2:00 PM C/T

Items Due 5 Business Days Prior to Proposal Opening – January 5, 2026

Pre-Proposal Information (See attribute 6 for additional information)

- ☐ OSHA (Occupational Safety & Health Administration) inspection logs for the last 3 years, a loss analysis from the Offeror's insurance carrier, & a loss history covering all lines of insurance coverage carried by the Offeror.
- ☐ Qualification Statement (AIA Document A305).
- ☐ A list of at least five (5) projects of similar scope as the project being proposed of which have been completed in the last five (5) years.
- ☐ Contractor's Proposed Project Personnel.

Items Due at Bid Time – January 13, 2026 at 2:00 PM C/T

Bid Package including:

- ☐ Bid Bond/Proposal Bond (10%)
- ☐ Response to Sections 1 - 20
- ☐ Respond to All Bid Lines
- ☐ Respond to All Alternate Bid Lines January 13,2026 @3PM C/T
- ☐ Unit Prices
- ☐ Subcontractor Listing -January 13,2026@ 3PM C/T
- ☐ Small Business Enterprise Program (SBEP)
- ☐ Contractor Information

Bid Attachments

- ☐ Request for Taxpayer Identification Number and Certification W9
- ☐ Conflict of Interest Questionnaire
- ☐ Certificate of Interested Parties Form 1295
- ☐ State and Federal Certification Forms
- ☐ Certification of Criminal History Record Information

Contract Documents [provided for Proposal Preparation, does not need to be submitted with proposal]

Base Proposal Information

CSP #	25-605
Project:	Galena Park High School Package 3B (Academics, MP, and Athletics)
Type:	Competitive Sealed Proposal
Issue Date:	December 7, 2025
Question Deadline:	December 27, 2025
Response Deadline:	January 08, 2026

25-605 **PROPOSAL** Close Date and Time: January 13, 2026 @ 2:00 PM C/T

Galena Park Independent School District (GPISD) is requesting **Competitive Sealed Proposals (CSP** 25-605**)** for Galena Park High School Package 3B (Academics, MP, and Athletics) **(GPISD Project B104**). **Base Proposals are due on January 13, 2026 at 2:00 PM C/T, Alternate Proposals and subcontractor list are due on January 13, 2026 at 3:00 PM C/T,** after which proposals will be opened publicly and read aloud at the GPISD Administration Building. Submissions must be delivered to the **Facility Planning and Construction Department** in the GPISD Administration Building, 14705 Woodforest Blvd., Houston, TX 77015, in a sealed envelope by the close date and time stated in this bid event. A Proposal Security in the amount of ten percent (10%) of the proposal amount is required.

The scope of work includes 269,000 sqft Academic Wing, Athletics Complex, and Multipurpose Facility. A pre-proposal conference will be held at the **GPISD Administration Building** on **December 10, 2025 at 10:00 AM**. Attendance is highly recommended.

Proposal Documents will be available on December 7, 2025 on the district website, and on the GPISD eBid system https://galenaparkisd.ionwave.net.

GPISD reserves the right to reject any and all proposals, the right to negotiate with any proposers after submission of proposals, and at its discretion, may waive any formalities or minor irregularities regarding the proposals.

SECTION 04 20 00 - UNIT MASONRY

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. The provisions of the General Conditions, Supplementary Conditions, Drawings, Specifications, and the Sections included under Division 01 General Requirements and References, are included as a part of this Section as though bound herein.

1.2 SUMMARY

A. Section Includes:
   1. Concrete block.
   2. Clay facing brick.
   3. Common brick.
   4. Hollow brick.
   5. Mortar and grout.
   6. Reinforcement and anchorage.
   7. Flashings.

B. Related Sections:
   1. Section 03 20 00 - Concrete Reinforcing: Reinforcing steel for grouted masonry.
   2. Section 03 30 00 - Cast-in-Place Concrete: Installation of dovetail slots for masonry anchors.
   3. Section 05 50 00 - Metal Fabrications: Loose steel lintels.
   4. Section 07 62 00 - Roof-Related Sheet Metal: Through-wall masonry flashings.
   5. Section 07 92 00 - Joint Sealants: Sealing control and expansion joints.

1.3 REFERENCE STANDARDS

A. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2023.

B. ASTM A641/A641M - Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire; 2019.

C. ASTM A951/A951M - Standard Specification for Steel Wire for Masonry Joint Reinforcement; 2022.

D. ASTM A1064/A1064M - Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete; 2022.

E. ASTM C62 - Standard Specification for Building Brick (Solid Masonry Units Made from Clay or Shale); 2023.

F. ASTM C90 - Standard Specification for Loadbearing Concrete Masonry Units; 2023.

G. ASTM C91/C91M - Standard Specification for Masonry Cement; 2023.

H. ASTM C129 - Standard Specification for Nonloadbearing Concrete Masonry Units; 2023.

I. ASTM C144 - Standard Specification for Aggregate for Masonry Mortar; 2018.

J. ASTM C150/C150M - Standard Specification for Portland Cement; 2022.

K. ASTM C207 - Standard Specification for Hydrated Lime for Masonry Purposes; 2018.

L. ASTM C216 - Standard Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale); 2023.

M. ASTM C270 - Standard Specification for Mortar for Unit Masonry; 2019a, with Editorial Revision.

N. ASTM C404 - Standard Specification for Aggregates for Masonry Grout; 2024.

O. ASTM C652 - Standard Specification for Hollow Brick (Hollow Masonry Units Made from Clay or Shale); 2022.

P. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2020, with Errata (2023).

Q. AWS D1.2/D1.2M - Structural Welding Code - Aluminum; 2014, with Errata (2020).

R. AWS D1.3/D1.3M - Structural Welding Code - Sheet Steel; 2018, with Errata (2022).

S. AWS D1.6/D1.6M - Structural Welding Code— Stainless Steel; Current.

T. BIA Technical Notes No. 7 - Water Penetration Resistance – Design and Detailing; 2017.

U. UL (FRD) - Fire Resistance Directory; Current Edition.

1.4 ADMINISTRATIVE REQUIREMENTS

A. Refer to Section 01 31 00 - Project Management and Coordination for additional requirements.

1.5 SUBMITTALS

A. Refer to Section 01 33 00 - Submittal Procedures for submittal procedures.

B. Product Data: Provide data for masonry units, fabricated wire reinforcement, mortar, and masonry accessories.

C. Shop Drawings: Indicate pertinent dimensions, materials, anchorage, size and type of fasteners, and accessories for brickwork support system.
   1. Include calculations or selections from the manufacturer's prescriptive design tables that indicate compliance with the applicable building code and project conditions.
   2. Include the design engineer's stamp or seal on each sheet of shop drawings.

D. Samples: Submit four samples of decorative block units to illustrate color, texture, and extremes of color range.

E. Manufacturer's Certificate: Certify that masonry units meet or exceed specified requirements.

F. Manufacturer's Certificate: Certify that water repellent admixture manufacturer has certified masonry unit manufacturer as an approved user of water repellent admixture in the manufacture of concrete block.

G. Test Reports: Concrete masonry manufacturer's test reports for units with integral water repellent admixture.

H. Designer's Qualification Statement.

I. Manufacturer's Qualification Statement.

J. Installer's Qualification Statement.

K. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. Refer to Section 01 60 00 - Product Requirements, for additional provisions.
   2. Extra Units: Furnish additional units of each type, size, and color combination equal to 1 percent of each type provided, with a minimum of 10 units..

1.6 QUALITY ASSURANCE

A. Comply with provisions of TMS 402/602, except where exceeded by requirements of Contract Documents.
   1. Maintain one copy of each document on project site.

B. Fire Rated Assemblies: Comply with applicable code for UL (FRD) Assembly No. E119.

C. Designer Qualifications: Perform design under direct supervision of a Professional Engineer experienced in design of this type of work and licensed in the State in which the Project is located.

D. Manufacturer Qualifications: Company specializing in manufacturing the type of products specified in this section with minimum three years of documented experience.

E. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver, handle, and store masonry units by means that will prevent mechanical damage and contamination by other materials.

B. Handle and store unit masonry in protective cartons or trays. Do not remove from protective packaging until ready for installation.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Subject to compliance with specification requirements, products by the listed manufacturers or fabricators may be submitted for use in the Work.
   1. Concrete Masonry Units:
      a. Acme Block & Brick: www.acmeblockandbrick.com.
      b. Best Block: www.bestblock.com.
      c. Boral Industries Company:
      d. Concrete Products Group (The): www.concreteproductsgroup.com.
      e. Omni Block, Inc.: www.omniblock.com.
      f. Sound Seal.
      g. Revels Block & Brick Company:
      h. Texas Building Products, Inc.:
   2. Brick Mansonry Units:
      a. ACME Block & Brick: www.acmeblockandbrick.com.
      b. Belden Brick: www.beldenbrick.com.
      c. Endicott Clay Products Co: www.endicott.com.
      d. General Shale, a subsidiary of Wienerberger AG: www.generalshale.com.
      e. Interstate Brick: https://interstatebrick.com.
      f. Meridian Brick LLC: www.meridianbrick.com.
   3. Reinforcement and Anchorage:
      a. Blok-Lok Limited: www.blok-lok.com.
      b. Hohmann & Barnard, Inc: www.h-b.com.

B. Substitutions: Refer to Section 01 25 13 - Product Substitution Procedures.
   1. Manufacturers and fabricators not listed must have a minimum of 5 years' experience manufacturing products meeting or exceeding the specifications and comply with Division 01 requirements regarding substitutions to be considered. Submit as a substitution.

2.2 DESCRIPTION

A. Regulatory Requirements:
   1. Welding Qualifications: Qualify procedures and personnel according to the following:
      a. Aluminum: AWS D1.2/D1.2M.
      b. Sheet Steel: AWS D1.3/D1.3M.
      c. Stainless Steel: AWS D1.6/D1.6M.
      d. Steel: AWS D1.1/D1.1M.

2.3 CONCRETE MASONRY UNITS

A. Burnished Concrete Block (CV1, CV2): Comply with referenced standards and as follows:
   1. Basis of Design: Best Block.
   2. Size: Standard units with nominal face dimensions of ~~16 by 8 inches (400 by 200 mm)~~ 24 inches by 12 inches and nominal depth as indicated on Drawings..
   3. Special Shapes: Provide non-standard blocks configured for corners, lintels. headers, control joint edges, and other conditions indicated on Drawings.
      a. Provide bullnose units for outside corners.
   4. Finish:
      a. CV1: White Limestone 700.

b. CV2: White Terrazzo 704.
5. Load-Bearing Units: ASTM C90, normal weight.
a. Both hollow and solid block, as indicated.
b. Exposed Faces: Manufacturer's full range of colors and textures where indicated.
6. Non-Loadbearing Units: ASTM C129.
a. Hollow block, as indicated.
b. Normal weight.

B. Concrete Acoustical Masonry Unit Veneer (CV3):
1. Basis of Design: Soundblox manufactured by Sound Seal.
2. Size: Refer to Drawings.

2.4 BRICK UNITS

A. Facing Brick: ASTM C216, Type FBS Smooth, Grade SW.
1. Basis of Design Product:
a. BK-1:
1) Manufacturer: Cloud Ceramics.
2) Color:Galena New Blend.
3) Finish: As selected by the Architect.
4) Size: Modular, Running Bond.
b. BK-2:
1) Manufacturer: Cloud Ceramics.
2) Color:Midnight Ironspot Velour.
3) Size: Modular, Running Bond.
2. Special Shapes: Molded units as required by conditions indicated, unless standard units can be sawn to produce equivalent effect.

B. Building (Common) Brick: ASTM C62, Grade SW; solid units.
1. Nominal size: As indicated on Drawings.

C. Hollow Facing and Building Brick: ASTM C652, Grade SW; Type HBS; Class H40V.
1. Nominal size: As indicated on drawings.

2.5 MORTAR AND GROUT MATERIALS

A. Masonry Cement: ASTM C91/C91M, Type N.
1. Colored Mortar: Premixed cement as required to match Architect's color sample.

B. Portland Cement: ASTM C150/C150M, Type I; color as required to produce approved color sample.
1. Not more than 0.60 percent alkali.

C. Hydrated Lime: ASTM C207, Type S.

D. Mortar Aggregate: ASTM C144.

E. Grout Aggregate: ASTM C404.

F. Water: Clean and potable.

2.6 REINFORCEMENT AND ANCHORAGE

A. Basis of Design Products:
1. Products manufactured by Blok-Lok Limited.
2. X-Seal Anchor manufactured by Hohmann & Barnard, Inc.
3. Products manufactrued by WIRE-BOND.

B. Joint Reinforcement: Use ladder type joint reinforcement where vertical reinforcement is involved and truss type elsewhere, unless otherwise indicated.

C. Single Wythe Joint Reinforcement: ASTM A951/A951M.
1. Type: Truss or ladder.

2. Material: ASTM A1064/A1064M steel wire, mill galvanized to ASTM A641/A641M Class 3.
3. Size: 0.1483 inch (3.8 mm) side rods with 0.1483 inch (3.8 mm) cross rods; width as required to provide not less than 5/8 inch (16 mm) of mortar coverage on each exposure.

D. Multiple Wythe Joint Reinforcement: ASTM A951/A951M.
1. Type: Truss.
2. Material: ASTM A1064/A1064M steel wire, mill galvanized to ASTM A641/A641M Class 3.
3. Size: 0.1483 inch (3.8 mm) side rods with 0.1483 inch (3.8 mm) cross rods; width as required to provide not less than 5/8 inch (16 mm) of mortar coverage on each exposure.

E. Adjustable Multiple Wythe Joint Reinforcement: ASTM A951/A951M.
1. Type: Truss, with adjustable ties or tabs spaced at 16 in (406 mm) on center.
2. Material: ASTM A1064/A1064M steel wire, hot dip galvanized after fabrication to ASTM A153/A153M Class B.
3. Size: 0.1875 inch (4.8 mm) side rods with 0.1483 inch (3.8 mm) cross rods and adjustable components of 0.1875 inch (4.8 mm)wire, width of components as required to provide not less than 5/8 inch (16 mm) of mortar coverage from each masonry face.
4. Vertical Adjustment: Not more than 1 1/4 inches (32 mm).
5. Insulation Clips: Provide clips at tabs or ties designed to secure insulation against outer face of inner wythe of masonry.

F. Strap Anchors: Bent steel shapes, 1-1/2 inch (38 mm) width, 0.105 inch (2.7 mm) thick, 24 inch (610 mm) length, with 1-1/2 inch (38 mm) long, 90 degree bend at each end to form a U or Z shape or with cross pins, hot dip galvanized to ASTM A153/A153M Class B.

G. Flexible Anchors: 2-piece anchors that permit differential movement between masonry and building frame, sized to provide not less than 5/8 inch (16 mm) of mortar coverage from masonry face.

2.7 FLASHINGS

A. Metal Flashing Materials: Refer to Section 07 62 00 - Roof Related Sheet Metal.

2.8 MORTAR AND GROUT MIXING

A. Mortar for Unit Masonry: ASTM C270, using the Proportion Specification.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that field conditions are acceptable and are ready to receive masonry.

B. Verify that related items provided under other sections are properly sized and located.

C. Verify that built-in items are in proper location, and ready for roughing into masonry work.

3.2 PREPARATION

A. Direct and coordinate placement of metal anchors supplied for installation under other sections.

B. Provide temporary bracing during installation of masonry work. Maintain in place until building structure provides permanent bracing.

3.3 COLD AND HOT WEATHER REQUIREMENTS

3.4 COURSING

A. Establish lines, levels, and coursing indicated. Protect from displacement.

B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.

C. Concrete Masonry Units:
1. Bond: As indicated on Drawings.
2. Coursing: One unit and one mortar joint to equal 8 inches (200 mm).
3. Mortar Joints: Concave.

D. Brick Units:
   1. Bond: As indicated on Drawings.
   2. Coursing: Three units and three mortar joints to equal 8 inches (200 mm).
   3. Mortar Joints: Concave.

3.5 PLACING AND BONDING

A. Lay solid masonry units in full bed of mortar, with full head joints, uniformly jointed with other work.

B. Lay hollow masonry units with face shell bedding on head and bed joints.

C. Buttering corners of joints or excessive furrowing of mortar joints is not permitted.

D. Remove excess mortar and mortar smears as work progresses.

E. Interlock intersections and external corners, except for units laid in stack bond.

F. Do not shift or tap masonry units after mortar has achieved initial set. Where adjustment must be made, remove mortar and replace.

G. Perform job site cutting of masonry units with proper tools to provide straight, clean, unchipped edges. Prevent broken masonry unit corners or edges.

H. Cut mortar joints flush where wall tile is scheduled or resilient base is scheduled.

I. Isolate masonry partitions from vertical structural framing members with a control joint as indicated.

J. Isolate top joint of masonry partitions from horizontal structural framing members and slabs or decks with compressible joint filler.

3.6 REINFORCEMENT AND ANCHORAGE - GENERAL, SINGLE WYTHE MASONRY, AND CAVITY WALL MASONRY

A. Unless otherwise indicated on drawings or specified under specific wall type, install horizontal joint reinforcement 16 inches (400 mm) on center.

B. Place masonry joint reinforcement in first and second horizontal joints above and below openings. Extend minimum 16 inches (400 mm) each side of opening.

C. Place continuous joint reinforcement in first and second joint below top of walls.

D. Embed longitudinal wires of joint reinforcement in mortar joint with at least 5/8 inch (16 mm) mortar cover on each side.

E. Lap joint reinforcement ends minimum 6 inches (150 mm).

F. Reinforce stack bonded unit joint corners and intersections with strap anchors 16 inches (400 mm) on center.

G. Fasten anchors to structural framing and embed in masonry joints as masonry is laid. Unless otherwise indicated on drawings or closer spacing is indicated under specific wall type, space anchors at maximum of 36 inches (900 mm) horizontally and 24 inches (600 mm) vertically.

H. Embed ties and anchors in mortar joint and extend into masonry unit a minimum of 1-1/2 inches (38 mm) with at least 5/8 inch (16 mm) mortar cover to the outside face of the anchor.

3.7 MASONRY FLASHINGS

A. Whether or not specifically indicated, install masonry flashing to divert water to exterior at all locations where downward flow of water will be interrupted.
   1. Extend flashings full width at such interruptions and at least 6 inches (152 mm), minimum, into adjacent masonry or turn up flashing ends at least 1 inch (25.4 mm), minimum, to form watertight pan at non-masonry construction.
   2. Remove or cover protrusions or sharp edges that could puncture flashings.
   3. Seal lapped ends and penetrations of flashing before covering with mortar.

B. Terminate flashing up 8 inches (203 mm) minimum on vertical surface of backing:

1. Install vertical leg of flashing behind water-resistive barrier sheet over backing.
2. Install vertical leg of flashing over fluid-applied or self-adhered air/vapor barriers over backing or per manufacturer's directions.
3. Terminate vertical leg of flashing into bed joint in masonry or reglet in concrete.
4. Anchor vertical leg of flashing into backing with a termination bar and sealant.
5. Apply cap bead of sealant on top edge of self-adhered flashing.

C. Support flexible flashings across gaps and openings.

3.8 TOLERANCES

A. Maximum Variation From Unit to Adjacent Unit: 1/16 inch (1.6 mm).

B. Maximum Variation from Plane of Wall: 1/4 inch in 10 ft (6 mm/3 m) and 1/2 inch in 20 ft (13 mm/6 m) or more.

C. Maximum Variation from Plumb: 1/4 inch (6 mm) per story non-cumulative; 1/2 inch (13 mm) in two stories or more.

D. Maximum Variation from Level Coursing: 1/8 inch in 3 ft (3 mm/m) and 1/4 inch in 10 ft (6 mm/3 m); 1/2 inch in 30 ft (13 mm/9 m).

E. Maximum Variation of Mortar Joint Thickness: Head joint, minus 1/4 inch, plus 3/8 inch (minus 6.4 mm, plus 9.5 mm).

F. Maximum Variation from Cross Sectional Thickness of Walls: 1/4 inch (6 mm).

3.9 CUTTING AND FITTING

A. Cut and fit for chases. Coordinate with other sections of work to provide correct size, shape, and location.

B. Obtain approval prior to cutting or fitting masonry work not indicated or where appearance or strength of masonry work may be impaired.

3.10 PARGING

A. Dampen masonry walls prior to parging.

B. Scarify each parging coat to ensure full bond to subsequent coat.

C. Parge masonry walls in two uniform coats of mortar to a total thickness of 3/4 inch (19 mm).

D. Steel trowel surface smooth and flat with a maximum surface variation of 1/8 inch per foot (1 mm/m).

E. Strike top edge of parging at 45 degrees.

3.11 CLEANING

A. Remove excess mortar and mortar droppings.

B. Replace defective mortar. Match adjacent work.

C. Clean soiled surfaces with cleaning solution.

D. Use non-metallic tools in cleaning operations.

3.12 PROTECTION

A. Without damaging completed work, provide protective boards at exposed external corners that are subject to damage by construction activities.

END OF SECTION 04 20 00

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SECTION 07 72 33 - ROOF SCUTTLE (HATCHES)

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 RELATED WORK

A. Section 05 31 00 - Metal Deck

B. Section 05 50 00 - Miscellaneous Metals

C. Section 06 10 00 - Rough Carpentry

D. Section 07 54 23 – Fully Adhered PVC Membrane Roofing System

1.3 COORDINATION

A. Coordinate layout and installation of roof accessories with roofing membrane and base flashing and interfacing and adjoining construction to provide a watertight installation.

B. Coordinate dimensions with rough-in information or Shop Drawings of equipment to be supported.

1.4 SUBMITTALS

A. Product Data: Submit schedules, charts, literature and illustrations to indicate the performance, fabrication procedures, product variations, and accessories.

B. Shop Drawings: Include materials, opening sizes, fabrication details, hardware, attachments, related and adjacent work, and finishes.

1.5 QUALITY ASSURANCE

A. Regulatory Requirements:

1. Miami-Dade County, FL Approved NOA
   a. TAS 201 Impact test
   b. TAS 202 Uniform Static Air Pressure
   c. TAS 203 Cyclic Wind Pressure Loading
2. OSHA 29 CFR 1910.23 Guarding floor and wall openings and holes
3. OSHA 29 CFR 1926.502 Fall protection systems criteria
4. International Building Code (IBC) Section 1013.6 Roof Access
5. International Building Code (IBC) Section 1009.11 Means of Egress, Stairways, Stairway to Roof
6. International Building Code for venting requirements
7. IBC Section 410 for Stages and Platforms
8. IBC Section 910 for Factory and Storage occupancies
9. IBC Section 1207 Sound Transmission
10. Underwriters Laboratories Inc, UL 793 Listed for Heat and Smoke Vents
11. FM Global, Factory Mutual, FM 4430 Heat and Smoke Vents for Roofs
12. Reference NFPA 204 for general maintenance of Heat and Smoke vents

13. ASTM E 90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements

1.6 DELIVERY, STORAGE AND HANDLING

A. Deliver materials to Project site ready use.

B. Exercise proper care in handling of Work so as not to disrupt finished surfaces.

C. Store materials under cover in a dry and clean location off the ground.

1.7 WARRANTY

A. Warrant the work specified herein for five (5) years, against becoming unserviceable or causing an objectionable appearance resulting from either defective or nonconforming materials and workmanship.

B. Defects shall include, but not be limited to, the following:
1. Faulty, improper or inadequate attachment or installation.
2. Difficult or noisy operation.
3. Noticeable deterioration of finish.
4. Leakage of water into the building or within the construction.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Basis of Design Product: Subject to compliance with requirements: The Bilco Company.

B. Manufacturers listed below whose products are equivalent to those specified are approved for use on the Project. Other manufacturers must have a minimum of five (5) years experience manufacturing equivalent products to those specified and comply with Division 1 requirements regarding substitutions to be considered.
1. Acudor Products Inc.
2. Babcock-Davis Hatchways, Inc.
3. Dur-Red Products
4. J. L. Industries, Inc.
5. Karp Associates, Inc.
6. Nystrom Building Products

2.2 ROOF SCUTTLES (HATCHES)

A. Size: 2’-6” x 3’-0”, unless shown otherwise.

B. Finish: White Powder Coat Aluminum.

C. Thermally Broken Cover: Shall be 11 gauge aluminum with 3" concealed polyisocyanurate insulation, 5" beaded, overlapping flange, fully welded at corners, and internally reinforced for 40 psf live load., fully covered and protected by an aluminum liner. No water standing on top of the cover will be permitted.

D. Thermally Broken Curb: Shall be 12 inches in height above finished roof surface and constructed of 11 gauge aluminum. It shall be formed with a 5-1/2 inch flange with holes provided for securing to the roof deck. Curb shall be equipped with an integral metal capflashing of the same gauge and material as the curb, full welded at the corners for weathertightness. Capflashing shall be equipped with the Bilclip™ flashing system, including stamped tabs and Pak-Rope. Insulation on the exterior of the curb shall be rigid fiber board three (3) inches in thickness.

E. Thermally Broken Scuttle (Hatch): Shall be completely assembled with heavy pintle hinges, positive snap latch with turn handles, padlock hasps inside and outside, and a mechanically retained thermoplastic rubber gasket. Compression spring operators enclosed in telescopic tubes shall be provided for smooth, easy and controlled door operation throughout the entire arc of opening and closing. Operation shall not be affected by temperature. Cover shall be equipped with an automatic hold-open arm complete with red vinyl grip handle to permit easy release and one-hand control of the cover to its closed and latched position. All hardware shall be stainless steel. Gasket shall be extruded EPDM adhesive back seal and continuous around cover.

F. Approved Model / Manufacturer: Type No. “S-50TB” Roof Scuttles (Hatches) for ladder access, or Architect approved equal.

G. Roof Access Ladder: As specified in Section 05 50 00, Miscellaneous Metals. Ladder shall be oriented and mounted along the short dimension of the hatch.

H. Fall Protection Safety Rail: 30”x36” Model SP 3036 manufactured by **SafePro L.C.** Guardrail height shall be 42” above finished roof surface. Color shall be powder coated safety yellow.

I. Telescoping Ladder Safety Post: Model ER-1 Extend-A-Rail Ladders Safety Post as manufactured by Precision Ladders LLC. 1.62” OD Schedule 40 anodized aluminum pipe post and 16”x4”x¼” aluminum mounting plate. Provide with locking slot and knob. All mounting hardware shall be Type 316 stainless steel.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Coordinate installation of sealant and roofing cement with Work of this Section to ensure water tightness.

B. Coordinate installation of components of this Section with installation of roof deck, roof structure, roofing membrane, and base flashing.

C. Roof hatches shall be welded to structural steel frame of building.

D. Install hatches in accordance with details on drawings, approved shop drawings, and manufacturer’s instructions.

E. Set units plumb, level, and true to line without warp or rack. Separate metal from incompatible metal or corrosive substrates, including wood, by coating concealed surfaces, at locations of contact, with bituminous coating or providing other permanent separation.

F. Flange Seals: Unless otherwise indicated, set flanges of accessory units in a thick bed of roofing cement to form a watertight and airtight seal.

3.2 FIELD QUALITY CONTROL

A. Pull internal and / or external manual pull handles and then close vents from the exterior at the roof top level.

B. Do not paint the internal mechanisms, especially moving parts such as spring, dampers, rotary latches and especially the fusible links. Painting any of these components may damage the vents and will void the warranty.

3.3 ADJUSTING

A. Adjust movable parts for smooth operation.

B. Operational Units: Test-operate units with operable components. Clean and lubricate joints and hardware. Adjust for proper operation

3.4 CLEANING

A. Clean exposed surfaces per manufacturer's written instructions. Touch up damaged metal coatings.

END OF SECTION 07 72 33

SECTION 08 33 13 - COILING COUNTER DOORS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. The provisions of the General Conditions, Supplementary Conditions, Drawings, Specifications, and the Sections included under Division 01 General Requirements and References, are included as a part of this Section as though bound herein.

1.2 SUMMARY

A. Section Includes:
   1. Electric-operated, coiling counter doors.

B. Related Sections:
   1. Section 05 50 00 - Metal Fabrications.
   2. Section 06 10 00 - Rough Carpentry.
   3. Section 08 71 00 - Door Hardware.
   4. Section 09 90 00 - Painting and Coating.
   5. Division 26 - Electrical.

1.3 SUBMITTALS

A. Reference Section 01 33 00 - Submittal Procedures; submit the following items:
   1. Shop Drawings: Include special conditions not detailed in Product Data. Show interface with adjacent work.
   2. Quality Assurance/Control Submittals:
      a. Provide manufacturer ISO 9001 registration.
      b. Provide manufacturer and installer qualifications - see below.
      c. Provide manufacturer's installation instructions.
   3. Closeout Submittals:
      a. Operation and Maintenance Manual.
      b. Certificate stating that installed materials comply with this specification.

1.4 QUALITY ASSURANCE

A. Qualifications:
   1. Manufacturer Qualifications: ISO 9001 registered and a minimum of five years experience in producing counter doors of the type specified.
   2. Installer Qualifications: Manufacturer’s approval.

1.5 DELIVERY STORAGE AND HANDLING

A. Refer to Section 01 60 00 - Product Requirements.

B. Follow manufacturer’s instructions.

1.6 WARRANTY

A. Standard Warranty: Two years from date of shipment against defects in material and workmanship

B. Maintenance: Submit for owner’s consideration and acceptance of a maintenance service agreement for installed products.

PART 2 PRODUCTS

2.1 MANUFACTURER

A. Subject to compliance with specification requirements, products by the listed manufacturers or fabricators may be submitted for use in the Work.
   1. Clopay Corporation: www.clopaydoor.com.
   2. CornellCookson, LLC.: www.cornellcookson.com.

B. Substitutions: Refer to Section 01 25 13 - Product Substitution Procedures.

1. Manufacturers and fabricators not listed must have a minimum of 5 years' experience manufacturing products meeting or exceeding the specifications and comply with Division 01 requirements regarding substitutions to be considered. Submit as a substitution.

2.2 DESCRIPTION

A. Regulatory Requirements:
   1. Code Standards:
      a. Refer to specification Section 01 41 00 - Regulatory Requirements for code requirements and code standards applicable to all materials and work necessary to complete the scope of work.
   2. Welding Qualifications: Qualify procedures and personnel according to the following:
      a. Aluminum: AWS D1.2/D1.2M.
      b. Sheet Steel: AWS D1.3/D1.3M.
      c. Stainless Steel: AWS D1.6/D1.6M.
      d. Steel: AWS D1.1/D1.1M.

2.3 ELECTRICALLY-OPERATED COILING COUNTER DOORS

A. Basis of Design Product:
   1. Model ESC10 as manufactured by CornellCookson, LLC.

B. Curtain:
   1. Slat Configuration:
      a. Galvanized Steel with Finish No. 1F: Interlocked flat-faced slats, 1-1/2 inches (38 mm) high by 1/2 inch (13 mm) deep, minimum 22 gauge ASTM A653/A653M, Commercial Quality, galvanized steel with extruded tubular aluminum bottom bar with continuous lift handle and vinyl astragal.
   2. Finish:
      a. ~~Stainless Steel: #4 finish.~~
      b. Aluminum: Clear anodized.

C. Endlocks:
   1. Fabricate interlocking slat sections with high strength molded nylon endlocks riveted to ends of alternate slats

D. Guides:
   1. Fabrication:
      a. Aluminum: Heavy duty extruded aluminum sections with Snap-on cover to conceal fasteners. Provide polypropylene pile runners on both sides of curtain to eliminate metal to metal contact between guides and curtain.
   2. Finish:
      a. Material: Powder coat.
      b. Color: As selected by Architect.

E. Tube Motor Shaft Assembly:
   1. Barrel: Steel pipe capable of supporting curtain load with maximum deflection of 0.03 inches per foot (2.5 mm per meter) of width.

F. Brackets:
   1. Fabricate from reinforced steel plate with bearings at rotating support points to support counterbalance shaft assembly and form end closures.
      a. Finish:
         1) Material: Cornell SpectraShield® Coating System.
         2) Color: As selected by Architect.

G. Hood:
   1. Minimum 24 gauge galvanized steel with reinforced top and bottom edges. Provide minimum 1/4 inch (6.35 mm) steel intermediate support brackets.
      a. Finish:

1) Material: Cornell SpectraShield® Coating System.
2) Color: As selected by Architect.

2.4 OPERATION

A. Electric Tube Motor Operator:
   1. Rated for a maximum of 10 cycles per day, cULus recognized, rated (50 nm) (100 nm) or (200 nm) as recommended by door manufacturer for size and type of door, 110 Volts, 1 Phase.
   2. Provide complete with electric tube motor, maintenance free electric brake, emergency manual crank hoist and control station(s). Motor shall be protected against overload with an auto-reset thermal sensing device.
   3. Operator shall be equipped with an emergency manual crank hoist assembly that safely cuts operator power when engaged. A disconnect chain shall not be required to engage or release the manual crank hoist.
   4. Operator shall be capable of 10-14 RPM. Fully adjustable, mechanical internal worm limit switch mechanism shall synchronize the operator with the door.
   5. Electrical Contractor shall mount the control station(s) and supply the appropriate disconnect switch, all conduit and wiring per the overhead door wiring instructions.

B. Control Station: For use with motor operated units only.
   1. Flush mounted: "Open/Close" key switch with BEST cylinder.

C. Control Operation:
   1. Constant pressure to close:
      a. 2-wire, electric sensing edge seal extending full width of door bottom bar. Contact before door fully closes shall cause door to immediately stop downward travel and reverse direction to the fully opened position. Provide a wireless edge connection to control circuit.

2.5 ACCESSORIES

A. Locking:
   1. Master Key Cylinder Lock to Owner Standards:
      a. Operable from coil side of bottom bar. Provide Interlock switches on motor operated units.
      b. BEST 7-Pin.

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine substrates upon which work will be installed and verify conditions are in accordance with approved shop drawings.

B. Coordinate with responsible entity to perform corrective work on unsatisfactory substrates.

C. Commencement of work by installer is acceptance of substrate.

3.2 INSTALLATION

A. Install door and operating equipment with necessary hardware, anchors, inserts, hangers and supports.

B. Follow manufacturer's installation instructions.

3.3 ADJUSTING

A. Following completion of installation, including related work by others, lubricate, test, and adjust doors for ease of operation, free from warp, twist, or distortion.

3.4 CLEANING

A. Clean surfaces soiled by work as recommended by manufacturer.

B. Remove surplus materials and debris from the site.

3.5 DEMONSTRATION

A. Demonstrate proper operation to Owner's Designated Representative (ODR).

B. Instruct Owner's Designated Representative (ODR) in maintenance procedures.

END OF SECTION 08 33 13

SECTION 08 33 43 - FIRE AND SMOKE RATED CURTAINS

PART 1 GENERAL

1.1 SUMMARY

A. Work Results:

B. Principal Products:

C. Section Includes:
1. Overhead UL 10B coiling fabric fire curtains.

1.2 ADMINISTRATIVE REQUIREMENTS

A. Coordination Procedures:
1. Coordinate curtain system installation with power, signal, fire alarm, and smoke detection systems specified in Division 26 and Division 28.
2. Coordinate requirements for supports and adjacent fire-resistance-rated wall assemblies.

B. Preinstallation Meeting Attendees and Procedures:
1. Conduct coordination meeting to ensure checklist is complete before starting work of this section.
2. Additional Attendees:
a. Electrical and fire alarm installers.

1.3 ACTION SUBMITTALS

A. Shop Drawings: Show fabrication and installation details. Include plans, sections, details, attachment, and the following:
1. Operating clearances.
2. Track and equipment supports.
3. Control equipment locations.

1.4 INFORMATIONAL SUBMITTALS

A. Test and Evaluation Certifications: Independent testing agency test results showing:
1. Fire ratings, per UL 10B.
2. Hose stream testing, per ASTM E2226.
3. Smoke and draft ratings, per UL 1784.

B. Qualification Statements: Installer, Maintenance provider

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Contracts: Retain manufacturer-certified technicians to perform annual maintenance and testing. Retain permanent record of tests.

B. Operation and Maintenance Data: Include maintaining, operating and resetting instructions.

C. Warranty Documentation.

1.6 QUALITY ASSURANCE

A. Qualifications:
   1. Installers: Manufacturer approved.

1.7 FIELD CONDITIONS

A. Existing Conditions: Verify field measurements before fabrication. Show field measurements on Shop Drawings.

PART 2 PRODUCTS

2.1 OVERHEAD UL 10B COILING FABRIC FIRE CURTAIN

A. Fire-Rated Coiling Fabric Fire Curtain: Fire alarm-activated coiling curtain assembly; UL 1784 S label and UL 10B, hose stream tested.
   1. Manufacturers and Products:
      a. DSI-HS10B Hose Stream Rated Smoke and Fire Curtain manufactured by Door Systems; or Architect approved equal.
   2. Fire Rating: UL 10B 3 hours
   3. Hose Stream: ASTM E2226, passing.
   4. Air Leakage Rate: 3.0 cfm/sf maximum at 0.10 inch water pressure differential.
   5. Fail-Safe Release: Manufacturer standard device built into drive unit to close curtain upon power failure.
   6. Curtain: Manufacturer standard tested product.
   7. Components: Manufacturer standard head boxes, guide rails, bottom bars, rollers, cover plates, and motors.
   8. Exposed Metal: Standard factory primer or Conceal (See Drawings).

2.2 COMMON COMPONENTS

A. Electrical Components, Devices, and Accessories: NFPA 70 listed, labeled, and marked for intended locations and applications.

B. Operators, Controls, Actuators, and Safeties: Manufacturer standard products listed by UL, or other testing agency acceptable to authorities having jurisdiction.
   1. Group Control Panel: Curtain deployment mechanism synced and integrated with emergency systems, capable of controlling multiple curtain motors.
      a. Voltage: 208/230.
      b. Mounting: See Drawings.

C. Test Feature: Accessible switch to test curtain operation.

2.3 PERFORMANCE

A. Surface Burning, Curtain: ASTM E84 Class A.
   1. Flame Spread Index: 25, maximum.
   2. Smoke Developed Index: 50, maximum.

2.4 FINISHES

A. Metal/Steel:
   1. Shop Primer for Field Finishing

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify blocking, installation tolerances, clearances, and other conditions.

3.2 INSTALLATION

A. Follow NFPA 80.

B. Install hood assembly anchorage devices to substrate. Avoid inducing distortion or stress.

C. Securely and rigidly brace components suspended from structure.

D. Fit and align assembly, including vertical guides. Level and plumb to provide smooth operation.

E. Rough in and wire electrical service to motors per Division 26 requirements.

F. Make fire alarm system connections.

3.3 FIELD QUALITY CONTROL

A. Field Tests and Inspections: Owner will engage inspectors to perform tests and inspections and prepare reports. Allow inspectors access to work areas.

B. Curtain Operation Test:
   1. Verify each curtain deploys upon signal from fire alarm system.
   2. Verify each curtain deploys by gravity upon loss of power.

C. Non-Conforming Work: Make corrections or replace, and re-test.

3.4 CLOSEOUT ACTIVITIES

A. Demonstrate required testing and maintenance procedures.

3.5 MAINTENANCE

A. Maintenance and Testing: NFPA 80; engage manufacturer certified technicians to maintain and test smoke containment systems minimum once per year.
   1. Transmit copy of each maintenance and inspection report to Owner.

END OF SECTION 08 33 43

SECTION 087100
DOOR HARDWARE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Hardware for wood and hollow metal doors.

B. Thresholds.

C. Weatherstripping and gasketing.

1.02 RELATED REQUIREMENTS

A. Section 081113 - Hollow Metal Doors and Frames.

B. Section 081116 - Aluminum Doors and Frames.

C. Section 081213 - Hollow Metal Frames.

D. Section 081416 - Flush Wood Doors.

E. Section 081433 - Stile and Rail Wood Doors.

F. Section 084313 - Aluminum-Framed Storefronts: Door hardware, except as noted in section.

1.03 REFERENCE STANDARDS

A. ADA Standards - 2010 ADA Standards for Accessible Design; 2010.

B. ASTM E283/E283M - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen; 2019.

C. BHMA A156.1 - Standard for Butts and Hinges; 2021.

D. BHMA A156.2 - Bored and Preassembled Locks and Latches; 2022.

E. BHMA A156.3 - Exit Devices; 2020.

F. BHMA A156.4 - Door Controls - Closers; 2019.

G. BHMA A156.5 - Cylinders and Input Devices for Locks; 2020.

H. BHMA A156.6 - Standard for Architectural Door Trim; 2021.

I. BHMA A156.7 - Template Hinge Dimensions; 2016.

J. BHMA A156.16 - Auxiliary Hardware; 2018.

K. BHMA A156.21 - Thresholds; 2019.

L. BHMA A156.22 - Standard for Gasketing; 2021.

M. BHMA A156.26 - Standard for Continuous Hinges; 2021.

N. BHMA A156.28 - Standard for Recommended Practices for Mechanical Keying Systems; 2018.

O. BHMA A156.115 - Hardware Preparation in Steel Doors and Steel Frames; 2016.

P. BHMA A156.115W - Hardware Preparation in Wood Doors with Wood or Steel Frames; 2006.

Q. DHI (H&S) - Sequence and Format for the Hardware Schedule; 2019.

R. DHI (KSN) - Keying Systems and Nomenclature; 2019.

S. DHI (LOCS) - Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames; 2004.

T. DHI WDHS.3 - Recommended Locations for Architectural Hardware for Flush Wood Doors; 1993; also in WDHS-1/WDHS-5 Series, 1996.

U. ICC (IBC) - International Building Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

V. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.

W. ITS (DIR) - Directory of Listed Products; Current Edition.

X. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2022.

Y. NFPA 105 - Standard for Smoke Door Assemblies and Other Opening Protectives; 2022.

Z. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; 2022.

AA. UL (DIR) - Online Certifications Directory; Current Edition.

BB. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies; Current Edition, Including All Revisions.

CC. UL 437 - Standard for Key Locks; Current Edition, Including All Revisions.

DD. UL 1037 - Antitheft Alarms and Devices; Current Edition, Including All Revisions.

EE. UL 1610 - Central-Station Burglar-Alarm Units; Current Edition, Including All Revisions.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordinate the manufacture, fabrication, and installation of products that door hardware is installed on.

B. Sequence installation to ensure facility services connections are achieved in an orderly and expeditious manner.

C. Preinstallation Meeting: Convene a preinstallation meeting one week prior to commencing work of this section; require attendance by affected installers and the following:
   1. Architect.
   2. Installer's Architectural Hardware Consultant (AHC).
   3. Hardware Installer.
   4. Owner's Security Consultant.

D. Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware.

E. Keying Requirements Meeting:
   1. Schedule meeting at project site prior to Contractor occupancy.
   2. Attendance Required:
      a. Contractor.
      b. Owner.
      c. Door Hardware Installer.
      d. Owner's Security Consultant.
   3. Agenda:
      a. Establish keying requirements.
      b. Verify locksets and locking hardware are functionally correct for project requirements.
      c. Verify that keying and programming complies with project requirements.
      d. Establish keying submittal schedule and update requirements.
   4. Incorporate "Keying Requirements Meeting" decisions into keying submittal upon review of door hardware keying system including, but not limited to, the following:
      a. Key control system requirements.
   5. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.
   6. Deliver established keying requirements to manufacturers.

1.05 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittal procedures.

B. Product Data: Manufacturer's catalog literature for each type of hardware, marked to clearly show products to be furnished for this project, and includes construction details, material descriptions, finishes, and dimensions and profiles of individual components.

C. Shop Drawings - Door Hardware Schedule: A detailed listing that includes each item of hardware to be installed on each door.
   1. Prepared by or under supervision of Architectural Hardware Consultant (AHC).
   2. Comply with DHI (H&S) using door numbering scheme and hardware set numbers as indicated in Contract Documents.
      a. Submit in vertical format.

3. Include complete description for each door listed.

D. Shop Drawings - Electrified Door Hardware: Include diagrams for power, signal, and control wiring for electrified door hardware that include details of interface with building safety and security systems. Provide elevations and diagrams for each electrified door opening as follows:
   1. Prepared by or under supervision of Architectural Hardware Consultant (AHC).
   2. Elevations: Include front and back elevations of each door opening showing electrified devices with connections installed and an operations narrative describing how opening operates from either side at any given time.
   3. Diagrams: Include point-to-point wiring diagrams that show each device in door opening system with related colored wire connections to each device.

E. Samples for Verification:
   1. Submit minimum size of 2 by 4 inch (51 by 102 mm) for sheet samples, and minimum length of 4 inch (102 mm) for other products.
   2. Submit one (1) sample of hinge, lockset, and closer illustrating style, color, and finish.
   3. Include product description with samples.

F. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.

G. Manufacturer's qualification statement.

H. Installer's qualification statement.

I. Supplier's qualification statement.

J. Maintenance Data: Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.

K. Keying Schedule:
   1. Submit three (3) copies of Keying Schedule in compliance with requirements established during Keying Requirements Meeting unless otherwise indicated.

L. Warranty: Submit manufacturer's warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

M. Project Record Documents: Record actual locations of concealed equipment, services, and conduit.

N. Maintenance Materials and Tools: Furnish the following for Owner's use in maintenance of project.
   1. See Section 016000 - Product Requirements, for additional provisions.

1.06 QUALITY ASSURANCE

A. Standards for Fire-Rated Doors: Maintain one copy of each referenced standard on site, for use by Architect and Contractor.

B. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years of documented experience.

C. Installer Qualifications: Company specializing in performing work of the type specified for commercial door hardware with at least three years of documented experience.

D. Supplier Qualifications: Company with certified Architectural Hardware Consultant (AHC) to assist in work of this section.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Package hardware items individually; label and identify each package with door opening code to match door hardware schedule.

1.08 WARRANTY

A. See Section 017800 - Closeout Submittals for additional warranty requirements.

B. Manufacturer Warranty: Provide manufacturer warranty against defects in material and workmanship for period indicated, from Date of Substantial Completion. Complete forms in Owner's name and register with manufacturer.
   1. Closers: Five years, minimum.
   2. Exit Devices: Three years, minimum.

3. Locksets and Cylinders: Three years, minimum.
4. Other Hardware: Two years, minimum.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

A. Provide specified door hardware as required to make doors fully functional, compliant with applicable codes, and secure to extent indicated.

B. Provide individual items of single type, of same model, and by same manufacturer.

C. Closers:
1. Provide door closer on each exterior door, unless otherwise indicated.
2. Provide door closer on each fire-rated and smoke-rated door.
3. Spring hinges are not an acceptable self-closing device, unless otherwise indicated.

D. Drip Guards: Provide at head of outswinging exterior doors unless protected by roof or canopy directly overhead.

E. Weatherstripping and Gasketing:

F. Fasteners:
1. Provide fasteners of proper type, size, quantity, and finish that comply with commercially recognized standards for proposed applications.
   a. Aluminum fasteners are not permitted.
   b. Provide phillips flat-head screws with heads finished to match door surface hardware unless otherwise indicated.
2. Provide machine screws for attachment to reinforced hollow metal and aluminum frames.
   a. Self-drilling (Tek) type screws are not permitted.
3. Provide stainless steel machine screws and lead expansion shields for concrete and masonry substrates.
4. Provide wall grip inserts for hollow wall construction.
5. Fire-Resistance-Rated Applications: Comply with NFPA 80.
   a. Provide wood or machine screws for hinges mortised to doors or frames, strike plates to frames, and closers to doors and frames.
   b. Provide steel through bolts for attachment of surface mounted closers, hinges, or exit devices to door panels unless proper door blocking is provided.

2.02 PERFORMANCE REQUIREMENTS

A. Provide door hardware products that comply with the following requirements:
1. Applicable provisions of federal, state, and local codes.
2. Accessibility: ADA Standards and ICC A117.1.
3. Fire-Resistance-Rated Doors: NFPA 80, listed and labeled by qualified testing agency for fire protection ratings indicated, based on testing at positive pressure in accordance with NFPA 252 or UL 10C.
4. Hardware on Fire-Resistance-Rated Doors: Listed and classified by UL (DIR), ITS (DIR), or testing firm acceptable to authorities having jurisdiction as suitable for application indicated.
5. Hardware Preparation for Steel Doors and Steel Frames: BHMA A156.115.
6. Hardware Preparation for Wood Doors with Wood or Steel Frames: BHMA A156.115W.
7. Products Requiring Electrical Connection: Listed and classified by UL (DIR) as suitable for the purpose specified.

2.03 HINGES

A. Manufacturers: Conventional butt hinges.
1. BEST; dormakaba Group: www.bestaccess.com/#sle.
2. Hager; Hager Companies: https://www.hagerco.com/home.
3. McKinney; Assa Abloy: https://www.mckinneyhinge.com/en.
4. Ives; Allegion PLC: https://us.allegion.com/en/products/brands/ives.html
5. Substitutions: Not permitted.

B. Properties:

1. Butt Hinges: As applicable to each item specified.
   a. Standard Weight Hinges: Minimum of two (2) permanently lubricated non-detachable bearings.
   b. Heavy Weight Hinges: Minimum of four (4) permanently lubricated bearings on heavy weight hinges.
   c. Template screw hole locations.
   d. Bearing assembly installed after plating.
   e. Bearings: Exposed fully hardened bearings.
   f. Bearing Shells: Shapes consistent with barrels.
   g. Pins: Easily seated, non-rising pins.
      1) Fully plate hinge pins.
      2) Non-Removable Pins: Slotted stainless steel screws.
   h. UL 10C listed for fire-resistance-rated doors.
2. Continuous Hinges: As applicable to each item specified.
   a. Geared Continuous Hinges: As applicable to each item specified.
      1) Non-handed.
      2) Anti-spinning through-fastener.
      3) UL 10C listed for fire-resistance-rated doors.
         (a) Metal Door Installation: Rated up to 90 minutes.
         (b) Wood Door Installation: Rated up to 60 minutes.
      4) Sufficient size to permit door to swing 180 degrees

C. Sizes: See Door Hardware Schedule.
   1. Hinge Widths: As required to clear surrounding trim.
   2. Sufficient size to allow 180 degree swing of door.

D. Finishes: See Door Hardware Schedule.
   1. Fully polish hinges; front, back, and barrel.

E. Grades:
   1. Butt Hinges: Comply with BHMA A156.1 and BHMA A156.7 for templated hinges.
   2. Continuous Hinges: Comply with BHMA A156.26, Grade 1.

F. Material: Base metal as indicated for each item by BHMA material and finish designation.

G. Types:
   1. Butt Hinges: Include full mortise hinges.
   2. Continuous Hinges: Include geared hinges.

H. Quantities:
   1. Butt Hinges: Three (3) hinges per leaves up to 90 inches (2286 mm) in height. Add one (1) for each additional 30 inches (762 mm) in height or fraction thereof.
      a. Hinge weight and size unless otherwise indicated in hardware sets:
         1) For doors up to 36 inches (914 mm) wide and up to 1-3/4 inches (44.5 mm) thick provide hinges with a minimum thickness of 0.134 inch (3.4 mm) and a minimum of 4-1/2 inches (114 mm) in height.
         2) For doors from 36 inches (914 mm) wide up to 42 inches (1067 mm) wide and up to 1-3/4 inches (44.5 mm) thick provide hinges with a minimum thickness of 0.145 inch (3.7 mm) and a minimum of 4-1/2 inches (114 mm) in height.
         3) For doors from 42 inches (1067 mm) wide up to 48 inches (1219 mm) wide and up to 1-3/4 inches (44.5 mm) thick provide hinges with a minimum thickness of 0.180 inch (4.6 mm) and a minimum of 5 inches (127 mm) in height.
         4) For doors greater than 1-3/4 inches (44.5 mm) thick provide hinges with a minimum thickness of 0.180 inch (4.6 mm) and a minimum of 5 inches (127 mm) in height.
   2. Continuous Hinges: One per door leaf.

I. Applications: At swinging doors.
   1. Provide non-removable pins at out-swinging doors with locking hardware and all exterior doors.

J. Products:
1. Butt Hinges:
a. Ball Bearing, Five (5) Knuckle.
2. Continuous Hinges:
a. Aluminum geared hinges.

2.04 BOLTS

A. Manufacturers:
1. Trimco: www.trimcohardware.com/#sle.
2. Ives; Allegion PLC: https://us.allegion.com/en/products/brands/ives.html.
3. Rockwood; Assa Abloy: https://www.rockwoodmfg.com/en.
4. Substitutions: See Section 016000 - Product Requirements.

B. Properties:
1. Flush Bolts:
a. Automatic Flush Bolts: Automatically latching upon closing of door leaf.
1) Bolt Throw: 3/4 inch (19 mm), minimum.
2. Dustproof Strikes: For bolting into floor, provide except at metal thresholds.

C. Options:
1. Lever extensions: Provide for top bolt at oversized doors.

D. Products:
1. Automatic flush bolts.

2.05 EXIT DEVICES

A. Manufacturers:
1. BEST, dormakaba Group: www.bestaccess.com/#sle.Corbin Russwin; Assa Abloy: https://www.corbinrusswin.com/
2. Von Duprin; Allegion PLC:https://www.vonduprin.com/en/index.html.
3. Substitutions: See Section 016000 - Product Requirements.

B. Properties:
1. Actuation: Full-length touchpad.
2. Touchpads: 'T" style metal touchpads and rail assemblies with matching chassis covers end caps.
3. Latch Bolts: Stainless steel deadlocking with 3/4 inch (19 mm) projection using latch bolt.
4. Lever Design: Match project standard lockset trims.
5. Cylinder: Include where cylinder dogging or locking trim is indicated.
6. Strike as recommended by manufacturer for application indicated.
7. Sound dampening on touch bar.
8. Dogging:
a. Non-Fire-Resistance-Rated Devices: Cylinder 1/4 inch (6 mm).
b. Fire-Resistance-Rated Devices: Manual dogging not permitted.
9. Touch bar assembly on wide style exit devices to have a 1/4 inch (6.3 mm) clearance to allow for vision frames.
10. All exposed exit device components to be of architectural metals and “true” architectural finishes.
11. Handing: Field-reversible.
12. Fasteners on Back Side of Device Channel: Concealed - exposed fasteners not allowed.
13. Vertical Latch Assemblies' Operation: Gravity, without use of springs.

C. Grades: Complying with BHMA A156.3, Grade 1.
1. Provide exit devices tested and certified by UL or by a recognized independent laboratory for mechanical operational testing to 10 million cycles minimum with inspection confirming Grade 1 Loaded Forces have been maintained.

2.06 LOCK CYLINDERS

A. Manufacturers:
1. BEST, dormakaba Group: www.bestaccess.com/#sle.

2. Substitutions: Not permitted.

B. Properties:
1. Lock Cylinders: Provide key access on outside of each lock, unless otherwise indicated.
a. Provide cylinders from same manufacturer as locking device.
b. Provide cams and/or tailpieces as required for locking devices.
c. Provide cylinders with appropriate format interchangeable cores where indicated.

C. Grades:
1. Standard Security Cylinders: Comply with BHMA A156.5.

D. Material:

E. Types: As applicable to each item specified.
1. Standard security small format interchangeable core (SFIC) type cylinders, with seven-pin, 1CM-7 cores.

F. Applications: At locations indicated in hardware sets, and as follows
1. As required for items with locking devices provided by other sections, including at elevator controls and cabinets.
a. When provisions for lock cylinders are referenced elsewhere in the Project Manual to this Section, provide compatible type of lock cylinder, keyed to building keying system, unless otherwise indicated.

G. Products:
1. Rim/mortise.

2.07 MORTISE LOCKS

A. Manufacturers:
1. BEST, dormakaba Group: www.bestaccess.com/#sle.
2. Substitutions: Not permitted.

B. Properties:
1. Mechanical Locks: Manufacturer's standard.
a. Fitting modified ANSI A115.1 door preparation.
b. Door Thickness Coordination Fitting 1-3/4 inch (44 mm) to 2-1/4 inch (57 mm) thick doors.
c. Latch: Solid, one-piece, anti-friction, self-lubricating stainless steel.
1) Latchbolt Throw: 3/4 inch (19 mm), minimum.
d. Auxiliary Deadlatch: One piece stainless steel, permanently lubricated.
e. Backset: 2-3/4 inch (70 mm).
f. Lever Trim:
1) Functionality: Allow the lever handle to move up to 45 degrees from horizontal position prior to engaging the latchbolt assembly.
2) Strength: Locksets outside locked lever designed to withstand minimum 1,400 inch-lbs (158.2 Nm) of torque. In excess of that, a replaceable part will shear. Key from outside and/or inside lever will still operate lockset.
3) Spindle: Designed to prevent forced entry from attacking of lever.
4) Independent spring mechanism for each lever.
(a) Trim to be self-aligning and thru-bolted.
5) Handles: Made of forged or cast brass, bronze, or stainless steel construction. Levers that contain a hollow cavity are not acceptable.
6) Levers to operate a roller bearing spindle hub mechanism.

C. Finishes: See Door Hardware Schedule.
1. Core Faces: Match finish of lockset.

D. Grades:

E. Options:
1. Provide locksets made in a manufacturing facility to compliant with ISO 9001-Quality Management and ISO 14001-Environmental Management.

F. Products: Mortise locks, including standard and electrified types.

1. 40H.

2.08 CYLINDRICAL LOCKS

A. Manufacturers:
   1. BEST, dormakaba Group: www.bestaccess.com/#sle.
   2. Substitutions: Not permitted.

B. Properties:
   1. Mechanical Locks:
      a. Fitting modified ANSI A115.2 door preparation.
      b. Door Thickness Fit: 1-3/8 inches (35 mm) to 2-1/4 inches (57 mm) thick doors.
      c. Construction: Hub, side plate, shrouded rose, locking pin to be a one-piece casting with a shrouded locking lug.
         1) Through-bolted anti-rotational studs.
      d. Cast stainless steel latch retractor with roller bearings for exceptionally smooth operation and superior strength and durability.
      e. Bored Hole: 2-1/8 inch (54 mm) diameter.
      f. Backset: 2-3/4 inches (70 mm) unless otherwise indicated.
      g. Latch: Single piece tail-piece construction.
         1) Latchbolt Throw: 9/16 inch (14.3 mm), minimum.
      h. Cylinders:
         1) Cylinder Core Types: Locks capable of supporting manufacturers' cores, as applicable.
            (a) Small format interchangeable.
      i. Lever Trim:
         1) Style: See Door Hardware Schedule.
         2) Functionality: Allow the lever handle to move up to 45 degrees from horizontal position prior to engaging the latchbolt assembly.
         3) Strength: Locksets outside locked lever designed to withstand minimum1,400 inch-lbs (158.2 Nm) of torque. In excess of that, a replaceable part will shear. Key from outside and/or inside lever will still operate lockset.
         4) Independent spring mechanism for each lever.
            (a) Contain lever springs in the main lock hub.
         5) Outside Lever Sleeve: Seamless one-piece construction.
         6) Keyed Levers: Removable only after core is removed by authorized control key.

C. Finishes: See Door Hardware Schedule.
   1. Core Faces: Match finish of lockset.

D. Grades: Comply with BHMA A156.2, Grade 1, Series 4000, Operational Grade 1, Extra Heavy Duty.
   1. Durability: Passing 50 Million cycle tests verified by third party testing agency.

E. Material: Manufacturer's stadard for specified lock.
   1. Critical Latch and Chassis Components: Brass or corrosion-resistance treated steel.
   2. Outside Lever Sleeve: Hardened steel alloy.

F. Options:

G. Products: Cylindrical locks, including mechanical and electrified types.
   1. 9K (Grade 1).

2.09 DOOR PULLS AND PUSH PLATES

A. Manufacturers:
   1. Trimco: www.trimcohardware.com/#sle.
   2. Ives; Allegion PLC: https://us.allegion.com/en/products/brands/ives.html.
   3. Rockwood; Assa Abloy: https://www.rockwoodmfg.com/en.
   4. Substitutions: Not permitted.

B. Properties:
   1. Pull Type: Straight, unless otherwise indicated.
   2. Push Plate Type: Flat, with square corners, unless otherwise indicated.

a. Edges: Beveled, unless otherwise indicated.

C. Grades: Comply with BHMA A156.6.

D. Material: Stainless steel, unless otherwise indicated.

E. Products:
1. Push-Pull Plates.

2.10 COORDINATORS

A. Manufacturers:
1. Ives; Allegion PLC: https://us.allegion.com/en/products/brands/ives.html
2. Rockwood; Assa Abloy: https://www.rockwoodmfg.com/en.
3. Substitutions: Not permitted.

B. Properties:
1. General: Non-handed devices, with field-selectable active door leaf.

C. Grades:

D. Code Compliance: As required by authorities having jurisdiction in the State in which the Project is located.
1. Meet UL 10C for Positive Pressure.

E. Types:

F. Installation:
1. Mounting: Provide necessary mounting brackets and filler bars to ensure proper installation of coordinator and related hardware.
2. Coordination: Properly sequence installation of other door hardware affected by placement of coordinators and carry bars.

2.11 CLOSERS

A. Manufacturers:
1. BEST, dormakaba Group: www.bestaccess.com/#sle.
2. dormakaba, dormakaba Group: https://www.dormakaba.com/
3. Sargent; Assa Abloy: https://www.sargentlock.com
4. LCN; Allegion PLC: https://www.lcnclosers.com/en/index.html.
5. Substitutions: Not permitted.

B. Properties:

C. Grades:
1. Closers: Comply with BHMA A156.4, Grade 1.
a. Underwriters Laboratories Compliance:
1) Product Listing: UL (DIR) and ULC for use on fire-resistance-rated doors.
(a) UL 228 - Door Closers-Holders, With or Without Integral Smoke Detectors.

D. Types:
1. Rack-and-pinion, surface-mounted. 1-1/2 inches (38 mm) minimum bore.

E. Options:
1. Advanced backcheck.

F. Installation:
1. Mounting: Includes surface mounted installations.
2. Mount closers on non-public side of door and stair side of stair doors unless otherwise noted in hardware sets.
3. At outswinging exterior doors, mount closer on interior side of door.
4. Provide adapter plates, shim spacers, and blade stop spacers as required by frame and door conditions.
5. Where an overlapping astragal is included on pairs of swinging doors, provide coordinator to ensure door leaves close in proper order.

2.12 PROTECTION PLATES

A. Manufacturers:

1. Ives; Allegion PLC: https://us.allegion.com/en/products/brands/ives.html.
2. Rockwood; Assa Abloy: https://www.rockwoodmfg.com/en.
3. Substitutions: Not permitted.

B. Properties:
1. Plates:
a. Kick Plates: Provide along bottom edge of push side of every wood door with closer, except aluminum storefront and glass entry doors, unless otherwise indicated.
b. Edges: Beveled, on four (4) unless otherwise indicated.

C. Grades: Comply with BHMA A156.6.

D. Material: As indicated for each item by BHMA material and finish designation.
1. Metal Properties: Stainless steel.

E. Installation:
1. Fasteners: Countersunk screw fasteners

2.13 STOPS AND HOLDERS

A. Manufacturers:
1. Trimco: www.trimcohardware.com/#sle.
2. Rockwood; Assa Abloy: https://www.rockwoodmfg.com/en.
3. Ives; Allegion PLC: https://us.allegion.com/en/products/brands/ives.html.
4. Substitutions: Not permitted.

B. General: Provide overhead stop/holder when wall or floor stop is not feasible.

C. Grades:
1. Door Holders, Wall Bumpers, and Floor Stops: Comply with BHMA A156.16 and Resilient Material Retention Test as described in this standard.

D. Material: Base metal as indicated for each item by BHMA material and finish designation.

E. Types:
1. Wall Bumpers: Bumper, concave, wall stop.
2. Floor Stops: Provide with bumper floor stop.

F. Installation:
1. Non-Masonry Walls: Confirm adequate wall reinforcement has been installed to allow lasting installation of wall bumpers.

G. Products:
1. Wall Bumpers.
2. Floor Stops.

2.14 THRESHOLDS

A. Manufacturers:
1. National Guard Products, Inc: www.ngpinc.com/#sle.
2. Pemko; Assa Abloy: https://www.pemko.com/en/products/gasketing/perimeter-gaskets.
3. Substitutions: Not permitted.

B. Properties:
1. Threshold Surface: Fluted horizontal grooves across full width.

C. Grades: Thresholds: Comply with BHMA A156.21.

D. Types: As applicable to project conditions. Provide barrier-free type at every location where specified.

2.15 WEATHERSTRIPPING AND GASKETING

A. Manufacturers:
1. National Guard Products, Inc: www.ngpinc.com/#sle.
2. Pemko; Assa Abloy: https://www.pemko.com/en/products/gasketing/perimeter-gaskets.
3. Substitutions: Not permitted.

B. Properties:

1. Weatherstripping Air Leakage Performance: Not exceeding 0.3 cfm/sq ft of door opening at 0.3 inches of water pressure differential for single doors, and 0.5 cfm/sq ft of door area at 0.3 inches of water pressure differential for double doors for gasketing other than smoke control, as tested according to ASTM E283/E283M; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.

C. Grades: Comply with BHMA A156.22.

D. Products:
1. Weatherstripping: See Door Hardware Schedule.
2. Door Bottom Seals:
a. Door Sweeps: See Door Hardware Schedule.

2.16 KEYS AND CORES

A. Manufacturers:
1. BEST, dormakaba Group: www.bestaccess.com/#sle.
2. Substitutions: Not permitted.

B. Properties: Complying with guidelines of BHMA A156.28.
1. Provide small format interchangeable core.
2. Provide Patented CORMAX keys and cores.
3. Provide keying information in compliance with DHI (KSN) standards.
4. Keying Schedule: Arrange for a keying meeting, with Architect, Owner and hardware supplier, and other involved parties to ensure locksets and locking hardware, are functionally correct and keying complies with project requirements.
5. Keying: Master keyed.
6. Include construction keying and control keying with removable core cylinders.
7. Supply keys in following quantities:
a. Master Keys: 4 each.
b. Construction Master Keys: 6 each.
c. Construction Keys: 15 each.
d. Construction Control Keys: 2 each.
e. Control Keys if New System: 2 each.
8. Provide key collection envelopes, receipt cards, and index cards in quantity suitable to manage number of keys.
9. Deliver keys with identifying tags to Owner by security shipment direct from manufacturer.
10. Permanent Keys and Cores: Stamped with applicable key marking for identification. Do not include actual key cuts within visual key control marks or codes. Stamp permanent keys "Do Not Duplicate."
11. **Owner to install all permanent cores** and return construction cores to hardware supplier. Construction cores and keys to remain property of hardware supplier.

C. Products:
1. Patented:
a. CORMAX.

2.17 KEY CABINETS

A. Manufacturers:
1. Lund Equipment Company, Inc: www.lundkey.com/#sle.
2. Telkee: www.telkee.com/#sle.
3. Substitutions: See Section 016000 - Product Requirements.

B. Properties:.
1. Key Management System: For each keyed lock on project, provide one set of consecutively numbered duplicate key tags with hanging hole and snap catch.
2. Security Key Tags: For each keyed lock on project, provide one set of matching key tags for permanent attachment to one key of each set.
3. Provide key collection envelopes, receipt cards, and index cards in quantity suitable to manage number of keys.
4. Mounting: Wall surface mounted.

5. Capacity: Actual quantity of keys, plus 25 percent additional capacity.
6. Key cabinet lock to facility's keying system.

C. Finishes: Baked enamel, manufacturer's standard color.

D. Material: Sheet steel.

E. Products:
1. Lund.
2. Telkee.

2.18 FIRE DEPARTMENT LOCK-BOXES

A. Manufacturers:
1. Knox Company; Knox-Box Rapid Entry System www.knoxbox.com/#sle.
2. Substitutions: See Section 016000 - Product Requirements.

B. Properties:
1. Heavy-duty, recessed, solid steel box with hinged door and interior gasket seal; single drill-resistant lock with dust covers and tamper alarm.
2. Capacity: Holds 10 keys.
3. Construction complying with UL 1037, UL 1610, and UL 437.

C. Locations:
1. **One recessed unit at main entrance.**
2. **Two surface mounted units at locations directed by COH**

D. Finishes: Manufacturer's standard coating.
1. Color: Manufacturer's standard dark bronze.

E. Options:. As applicable to each item specified.

F. Products:
1. Knox.

2.19 FINISHES

A. Finishes: Identified in Hardware Sets.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that doors and frames are ready to receive this work; labeled, fire-rated doors and frames are properly installed, and dimensions are as indicated on shop drawings.

B. Correct all defects prior to proceeding with installation.

C. Verify that electric power is available to power operated devices and of correct characteristics.

3.02 INSTALLATION

A. Install hardware in accordance with manufacturer's instructions and applicable codes.

B. Install hardware using the manufacturer’s fasteners provided. Drill and tap all screw holes located in metallic materials. Do not use “Riv-Nuts” or similar products.

C. Install hardware on fire-rated doors and frames in accordance with applicable codes and NFPA 80.

D. Install hardware for smoke and draft control doors in accordance with NFPA 105.

E. Use templates provided by hardware item manufacturer.

F. Do not install surface mounted items until application of finishes to substrate are fully completed.

G. Wash down masonry walls and complete painting or staining of doors and frames.

H. Complete finish flooring prior to installation of thresholds.

I. Door Hardware Mounting Heights: Distance from finished floor to center line of hardware item. As indicated in following list; unless noted otherwise in Door Hardware Schedule or on drawings.

1. For Steel Doors and Frames: Install in compliance with DHI (LOCS) recommendations.
2. For Steel Door Frames: See Section 081213.
3. For Aluminum-Framed Storefront Doors and Frames: See Section 084313.
4. For Wood Doors: Install in compliance with DHI WDHS.3 recommendations.
5. Flush Wood Doors: See Section 081416.
6. Stile and Rail Wood Doors: See Section 081433.
7. Mounting heights in compliance with ADA Standards:
   a. Locksets: 40-5/16 inch (1024 mm).
   b. Push Plates/Pull Bars: 42 inch (1067 mm).
   c. Deadlocks (Deadbolts): 48 inch (1219 mm).
   d. Exit Devices: 40-5/16 inch (1024 mm).
   e. Door Viewer: 43 inch (1092 mm); standard height 60 inch (1524 mm).

J. Set exterior door thresholds with full-width bead of elastomeric sealant at each point of contact with floor providing a continuous weather seal; anchor thresholds with stainless steel countersunk screws.

K. Include in installation for existing doors and frames any necessary field modification and field preparation of doors and frames for new hardware. Provide necessary fillers, reinforcements, and fasteners for mounting new hardware and to cover existing door and frame preparations.

3.03 FIELD QUALITY CONTROL

A. Perform field inspection and testing under provisions of Section 014000 - Quality Requirements.

3.04 ADJUSTING

A. Adjust work under provisions of Section 017000 - Execution and Closeout Requirements.

B. Adjust hardware for smooth operation.

C. Adjust gasketing for complete, continuous seal; replace if unable to make complete seal.

3.05 CLEANING

A. Clean finished hardware in accordance with manufacturer's written instructions after final adjustments have been made.

B. Clean adjacent surfaces soiled by hardware installation activities.

C. See Section 017419 - Construction Waste Management and Disposal, for additional requirements.

3.06 PROTECTION

A. Protect finished Work under provisions of Section 017000 - Execution and Closeout Requirements.

B. Do not permit adjacent work to damage hardware or finish.

3.07 DOOR HARDWARE

Manufacturer list

A-R	Adams Rite
BES	Best
PRE	BEST (Precision)
NGP	National Guard Products
SEL	SELECT
TRI	Trimco

Option list

Code:	Name:
3	2-3/4" Backset
00	Standard 1-3/4" Door
Mullion	Provide at the mullion
V4908	Key controls lever
16	16 adjustable size 1-6
H	Hotel Function
7	7 Pin
CA-03	No label saved for the current or all languages
N	Passage
B2	UL Stop Mounted Coordinator
4914	Lever/knob always active
LM	Lost Motion
83"	83" Standard for Nominal Door Height
S	Single Keyed Classroom
D	Storeroom
AVB	AVB Advanced Variable Backchk
B4E Heavy	Heavy Bevel Edges
AB	Entrance
VIBE	Double Visual Indicator
PATD	Patented keyed core
R	Classroom
2	Standard Length
10"	Height
X 2" LDW	Width
3	Push Plate 4" x 16"
4903	Key retracts latchbolt
PHI	Anti-Vandal Pull without Astragal For Precision PHI Apex 2000 Series
4" ODW	4" Over Door Width
4	Standard Mortise
L	Privacy Function
PATD	Patented
CD	Cylinder Dogging: 1-1/4" Mortise Cylinder not included
Head & Jambs (2)	Provide at the head and both jambs
0	Keyless
3B	Pull Plate 4" x 16" with 10" CTC Pull
LAR	Length As Required
NRP	NON-REMOVABLE PINS
CSK	Counter Sunk Holes

Finish list

Code:	Name:
B	Brown
689	Aluminum

32D	Satin Stainless Steel
CL	Clear
628	Clear Anodized
630	Satin stainless steel
626	Satin chromium plated
A	Anodized Aluminum
26D	Satin chromium plated

Specification Report

Set #101

Doors: 2147.1A, 2147.1B, 2147B, 2147A

1.0	Continuous Hinge	SL27	CL	SEL
1.0	Exit Device	2103 CD CA-03	630	PRE
1.0	Pull	1097 PHI	630	TRI
1.0	Rim Cylinder	12E 7 2 PATD	626	BES
1.0	Mortise Cylinder	1E 7 4 PATD	626	BES
1.0	Door Closer	EHD90 16 SDS90	689	BES
1.0	Drip Cap	16 4" ODW @ Exterior Openings	A	NGP
1.0	Gasketing	BY ALUM DOOR/FRAME MANUFACTURER		
1.0	Sweep	200S LAR	A	NGP
1.0	Threshold	8425 LAR	A	NGP

Set #102

Doors: 1500E, 1500F, 1507, 1507A, 2513A

6.0	Hinge	FBB168 NRP 45X45	26D	BES
1.0	Keyed Removeable Mullion	KR822	689	PRE
2.0	Exit Device	2103 CD CA-03	630	PRE
2.0	Pull	1097 PHI	630	TRI
3.0	Rim Cylinder	12E 7 2 PATD	626	BES
2.0	Mortise Cylinder	1E 7 4 PATD	626	BES
2.0	Door Closer	EHD90 16 AF90P	689	BES
2.0	Kick Plate	K0050 10" X 1" LDW CSK B4E	630	TRI
2.0	Gasketing	5050 Head & Jambs (2)	B	NGP
1.0	Gasketing	5100N Mullion		NGP
2.0	Dome Stop	1211	630	TRI

Set #102.1

Doors: 1500D

6.0	Hinge	FBB168 NRP 45X45	26D	BES
2.0	Power Transfer	EPT-12C		BES
1.0	Keyed Removeable Mullion	KR822	689	PRE
2.0	Exit Device	MLR TS 2103 CA-03	630	PRE
2.0	Pull	1097 PHI	630	TRI
3.0	Rim Cylinder	12E 7 2 PATD	626	BES
2.0	Door Closer	EHD90 16 AF90P	689	BES
2.0	Kick Plate	K0050 10" X 1" LDW CSK B4E	630	TRI
2.0	Gasketing	5050 Head & Jambs (2)	B	NGP

1.0	Gasketing	5100N Mullion		NGP
2.0	Dome Stop	1211	630	TRI
1.0	Wall Reader	BY SECURITY CONTRACTOR		
1.0	Power Supply	BY SECURITY CONTRACTOR		
2.0	Door Position Switch	BY SECURITY CONTRACTOR		

NOTE: DOORS NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL RETRACTS LATCH AND ALLOWS FOR INGRESS. EMERGENCY KEY OVERRIDE. RX SWITCH IN PUSHBAR TO SHUNT ALARM. FREE EGRESS AT ALL TIMES.

Set #102.2

Doors: 1500A, C1508, C1508C, C1508D, 1100A, C1100.1, C1000N

2.0	Continuous Hinge	SL27 EPT	CL	SEL
2.0	Power Transfer	EPT-12C		BES
1.0	Keyed Removeable Mullion	KR822	689	PRE
2.0	Exit Device	MLR TS 2103 CA-03	630	PRE
2.0	Pull	1097 PHI	630	TRI
3.0	Rim Cylinder	12E 7 2 PATD	626	BES
2.0	Door Closer	EHD90 16 SDS90	689	BES
1.0	Gasketing	BY ALUM DOOR/FRAME MANUFACTURER		
1.0	Gasketing	5100N Mullion		NGP
1.0	Wall Reader	BY SECURITY CONTRACTOR		
1.0	Power Supply	BY SECURITY CONTRACTOR		
2.0	Door Position Switch	BY SECURITY CONTRACTOR		

NOTE: DOORS NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL RETRACTS LATCH AND ALLOWS FOR INGRESS. EMERGENCY KEY OVERRIDE. RX SWITCH IN PUSHBAR TO SHUNT ALARM. FREE EGRESS AT ALL TIMES.

Set #102.3

Doors: C1100.2

2.0	Continuous Hinge	SL27 EPT	CL	SEL
2.0	Power Transfer	EPT-12C		BES
1.0	Keyed Removeable Mullion	KR822	689	PRE
2.0	Exit Device	MLR TS 2103 CA-03	630	PRE
2.0	Pull	1097 PHI	630	TRI
3.0	Rim Cylinder	12E 7 2 PATD	626	BES
2.0	Door Closer	EHD90 16 AF90P	689	BES
1.0	Gasketing	BY ALUM DOOR/FRAME MANUFACTURER		
1.0	Gasketing	5100N Mullion		NGP
2.0	Dome Stop	1211	630	TRI
1.0	Wall Reader	BY SECURITY CONTRACTOR		
1.0	Power Supply	BY SECURITY CONTRACTOR		

2.0	Door Position Switch	BY SECURITY CONTRACTOR		

NOTE: DOORS NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL RETRACTS LATCH AND ALLOWS FOR INGRESS. EMERGENCY KEY OVERRIDE. RX SWITCH IN PUSHBAR TO SHUNT ALARM. FREE EGRESS AT ALL TIMES.

Set #103

Doors: 1550.1, 2511, 2512.2, 2512.2B, 2124, 3113, 3139

6.0	Hinge	FBB179 NRP 45X45	26D	BES
1.0	Flushbolt	3820x3810	626	TRI
1.0	Strike	3910	626	TRI
1.0	Cylindrical Lock	9K 3 7 D 14 C LM PATD	626	BES
2.0	Door Closer	EHD90 16 SDS90	689	BES
2.0	Kick Plate	K0050 10" X 1" LDW CSK B4E	630	TRI
1.0	Coordinator	3090 SERIES	626	TRI
1.0	Gasketing	5050 Head & Jambs (2)	B	NGP

Set #105

Doors: 1548, 1117, 1131, 1131.1, 1131.3, 1148, 2510, 2510A, 2513, C2501, 2115, 2145, C2100.3, C2100.3A

6.0	Hinge	FBB168 NRP 45X45	26D	BES
1.0	Keyed Removeable Mullion	KR822	689	PRE
2.0	Pull	1097 PHI	630	TRI
2.0	Exit Device	2103 CD CA-03	630	PRE
3.0	Rim Cylinder	12E 7 2 PATD	626	BES
2.0	Mortise Cylinder	1E 7 4 PATD	626	BES
2.0	Door Closer	EHD90 16 SDS90	689	BES
2.0	Kick Plate	K0050 10" X 1" LDW CSK B4E	630	TRI
1.0	Gasketing	5100N Mullion		NGP
2.0	Gasketing	5050 Head & Jambs (2)	B	NGP

Set #106

Doors: 1515, 1515B

6.0	Hinge	FBB168 NRP 45X45	26D	BES
1.0	Keyed Removeable Mullion	KR822	689	PRE
2.0	Exit Device	2108 CD V4908 D	630	PRE
3.0	Rim Cylinder	12E 7 2 PATD	626	BES
2.0	Mortise Cylinder	1E 7 4 PATD	626	BES

2.0	Door Closer	EHD90 16 AF90P	689	BES
2.0	Kick Plate	K0050 10" X 1" LDW CSK B4E	630	TRI
1.0	Gasketing	5100N Mullion		NGP
2.0	Gasketing	5050 Head & Jambs (2)	B	NGP
2.0	Dome Stop	1211	630	TRI

Set #107

Doors: 1524

6.0	Hinge	FBB179 NRP 45X45	26D	BES
1.0	Flushbolt	3820x3810	626	TRI
1.0	Strike	3910	626	TRI
1.0	Cylindrical Lock	9K 3 7 D 14 C LM PATD	626	BES
2.0	Door Closer	EHD90 16 AF90P	689	BES
2.0	Kick Plate	K0050 10" X 1" LDW CSK B4E	630	TRI
1.0	Coordinator	3090 SERIES	626	TRI
1.0	Gasketing	5050 Head & Jambs (2)	B	NGP
2.0	Dome Stop	1211	630	TRI

Set #108

Doors: 1513

6.0	Hinge	FBB179 NRP 45X45	26D	BES
1.0	Flushbolt	3820x3810	626	TRI
1.0	Strike	3910	626	TRI
1.0	Cylindrical Lock	9K 3 7 D 14 C LM PATD	626	BES
2.0	Door Closer	EHD90 16 SIS90	689	BES
2.0	Kick Plate	K0050 10" X 1" LDW CSK B4E	630	TRI
1.0	Coordinator	3090 SERIES	626	TRI
1.0	Gasketing	5050 Head & Jambs (2)	B	NGP

Set #110.1 - HW

Doors: 1132

3.0	Hinge	FBB168 NRP 45X45	26D	BES
1.0	Cylindrical Lock	9K 3 7 D 14 C LM PATD	626	BES
1.0	Door Closer	EHD90 16 AF90P	689	BES
1.0	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1.0	Gasketing	5050 Head & Jambs (2)	B	NGP
1.0	Dome Stop	1211	630	TRI

Set #110

Doors: 1519, 1526, 1543, 1102, 1103, 1104, 1107, 1108, 1111, 1114, 1116, 1127, 1131.3A, 1133, 1140, 1141, 1143, 1145, 1146, 1147, 1149, 1151, 1155, 1156, 1157, 1158, 1159, 2506, 2105, 2106, 2107, 2108, 2112, 2114, 2116, 2119, 2122, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2139, 2140,

2142, 2143, 2144, 2146, 2148, 2152, 2153, 2154, 2155, 3102B, 3103B, 3107, 3107A, 3108B, 3116, 3119.1, 3119.1A, 3120, 3122, 3125, 3126, 3127, 3128, 3129, 3132B, 3134, 3135B, 3137, 3140B, 3141B, 3145, 3145A, 3147B, 3150B

3.0	Hinge	FBB179 NRP 45X45	26D	BES
1.0	Cylindrical Lock	9K 3 7 D 14 C LM PATD	626	BES
1.0	Door Closer	EHD90 16 AF90P	689	BES
1.0	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1.0	Gasketing	5050 Head & Jambs (2)	B	NGP
1.0	Dome Stop	1211	630	TRI

Set #111

Doors: 1133A, 1134A, 1136A, 2121, 3102, 3102A, 3104, 3104A, 3108, 3108A, 3112, 3112A, 3119, 3119A, 3132, 3132A, 3135, 3135A, 3140, 3140A, 3141, 3141A, 3147, 3147A, 3149, 3149A

3.0	Hinge	FBB168 NRP 45X45	26D	BES
1.0	Exit Device	2108 CD V4908 D	630	PRE
1.0	Rim Cylinder	12E 7 2 PATD	626	BES
1.0	Mortise Cylinder	1E 7 4 PATD	626	BES
1.0	Door Closer	EHD90 16 AF90P	689	BES
1.0	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1.0	Gasketing	5050 Head & Jambs (2)	B	NGP
1.0	Dome Stop	1211	630	TRI

Set #112

Doors: 1536A, 1550A, 2505, 2512.3, 2513, 2121A, 1511

3.0	Hinge	FBB168 NRP 45X45	26D	BES
1.0	Exit Device	2114 4914 D	630	PRE
1.0	Door Closer	EHD90 16 AF90P	689	BES
1.0	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1.0	Gasketing	5050 Head & Jambs (2)	B	NGP
1.0	Dome Stop	1211	630	TRI

Set #113

Doors: 1536, 2513A, 2103

3.0	Hinge	FBB191 NRP 45X45	32D	BES
1.0	Exit Device	2103 CD CA-03	630	PRE
1.0	Pull	1097 PHI	630	TRI
1.0	Rim Cylinder	12E 7 2 PATD	626	BES
1.0	Mortise Cylinder	1E 7 4 PATD	626	BES
1.0	Door Closer	EHD90 16 SDS90	689	BES
1.0	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1.0	Gasketing	700S Head & Jambs (2)	A	NGP

1.0	Sweep	200S LAR	A	NGP
1.0	Threshold	8425 LAR	A	NGP

Set #113.1

Doors: 1550, 1118

3.0	Hinge	FBB191 NRP 45X45	32D	BES
1.0	Power Transfer	EPT-12C		BES
1.0	Exit Device	MLR TS 2103 CD CA-03	630	PRE
1.0	Pull	1097 PHI	630	TRI
1.0	Rim Cylinder	12E 7 2 PATD	626	BES
1.0	Mortise Cylinder	1E 7 4 PATD	626	BES
1.0	Door Closer	EHD90 16 SDS90	689	BES
1.0	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1.0	Gasketing	700S Head & Jambs (2)	A	NGP
1.0	Sweep	200S LAR	A	NGP
1.0	Threshold	8425 LAR	A	NGP
1.0	Wall Reader	BY SECURITY CONTRACTOR		
1.0	Power Supply	BY SECURITY CONTRACTOR		
1.0	Door Position Switch	BY SECURITY CONTRACTOR		

NOTE: DOOR NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL RETRACTS LATCH AND ALLOWS FOR INGRESS. EMERGENCY KEY OVERRIDE. RX SWITCH IN PUSHBAR TO SHUNT ALARM. FREE EGRESS AT ALL TIMES.

Set #114

Doors: 1142.1, 1160, 2127, 2136, 2158, 3105, 3124, 3133, 3148

3.0	Hinge	FBB168 NRP 45X45	26D	BES
1.0	Exit Device	2103 CD 4903 D	630	PRE
1.0	Rim Cylinder	12E 7 2 PATD	626	BES
1.0	Mortise Cylinder	1E 7 4 PATD	626	BES
1.0	Door Closer	EHD90 16 SDS90	689	BES
1.0	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1.0	Gasketing	5050 Head & Jambs (2)	B	NGP

Set #114.1

Doors: 1128

3.0	Hinge	FBB168 NRP 45X45	26D	BES
1.0	Exit Device	FL2103 CD 4903 D	630	PRE
1.0	Rim Cylinder	12E 7 2 PATD	626	BES
1.0	Mortise Cylinder	1E 7 4 PATD	626	BES
1.0	Door Closer	EHD90 16 AF90P	689	BES
1.0	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1.0	Gasketing	5050 Head & Jambs (2)	B	NGP

Set #116

Doors: 1501, 1506, 1516, 1517, 1529.2, 1530, 1531, 1533, 1534, 1535, 1537, 1538, 1540, 1541.1, 1546, 1549, C1508.1, C1508.2, C1508.3, C1508.4, 1109, 1112, 1152, 1154, 2507, 2508, 2109, 2111, 2149, 2151, 3109, 3111, 3142, 3144

3.0	Hinge	FBB168 NRP 45X45	26D	BES
1.0	Push Plate	1001 3	630	TRI
1.0	Pull Plate	1018 3B	630	TRI
1.0	Deadbolt	8T 3 S PATD	626	BES
1.0	Door Closer	EHD90 16 AF90P	689	BES
1.0	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1.0	Gasketing	5050 Head & Jambs (2)	B	NGP
1.0	Dome Stop	1211	630	TRI

Set #117

Doors: 1110, 2110, 3110

3.0	Hinge	FBB179 NRP 45X45	26D	BES
1.0	Mortise Lock	45H 7 H 14 H PATD VIBE	630	BES
1.0	Door Closer	EHD90 16 AF90P	689	BES
1.0	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1.0	Gasketing	5050 Head & Jambs (2)	B	NGP
1.0	Dome Stop	1211	630	TRI

Set #118

Doors: 1105, 1107.1, 1119, 1153, 2123, 2126, 2150, 3143

3.0	Hinge	FBB179 NRP 45X45	26D	BES
1.0	Mortise Lock	45H 0 L 14 H VIBE	630	BES
1.0	Deadbolt	8T 3 S PATD	626	BES
1.0	Door Closer	EHD90 16 SDS90	689	BES
1.0	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1.0	Gasketing	5050 Head & Jambs (2)	B	NGP

Set #120.1 - HW

Doors: 1114.1, 1114.1A

3.0	Hinge	FBB168 5X45	26D	BES
1.0	Cylindrical Lock	9K 3 0 N 14 C	626	BES
1.0	Gasketing	5050 Head & Jambs (2)	B	NGP
1.0	Dome Stop	1211	630	TRI

Set #121

Doors: 1518, 1520, 1521, 1522, 1523, 1525, 1528, 1529, 1529A, 1539, 1541, 1541A, 1120, 1121, 1122, 1123, 1124, 1125, 1132.1, 2102, 2135, 2135A, 2156, 3121, 1524.2

3.0	Hinge	FBB179 NRP 45X45	26D	BES
1.0	Cylindrical Lock	9K 3 7 AB 14 C LM PATD	626	BES
1.0	Dome Stop	1211	630	TRI
1.0	Gasketing	5050 Head & Jambs (2)	B	NGP

Set #122

Doors: 1544

3.0	Hinge	FBB179 NRP 45X45	26D	BES
1.0	Cylindrical Lock	9K 3 7 D 14 C LM PATD	626	BES
1.0	Door Closer	EHD90 16 AF90P	689	BES
1.0	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1.0	Dome Stop	1211	630	TRI
1.0	Gasketing	700S Head & Jambs (2)	A	NGP
1.0	Sweep	200S LAR	A	NGP
1.0	Threshold	8425 LAR	A	NGP

Set #122.1 - HW

Doors: 2118

3.0	Hinge	FBB168 NRP 5X45	26D	BES
1.0	Cylindrical Lock	9K 3 7 D 14 C LM PATD	626	BES
1.0	Door Closer	EHD90 16 SDS90	689	BES
1.0	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1.0	Gasketing	5050 Head & Jambs (2)	B	NGP

Set #123

Doors: 1115, 1158.1, 3106

3.0	Hinge	FBB179 NRP 45X45	26D	BES
1.0	Cylindrical Lock	9K 3 7 D 14 C LM PATD	626	BES
1.0	Door Closer	EHD90 16 SDS90	689	BES
1.0	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1.0	Gasketing	5050 Head & Jambs (2)	B	NGP

Set #123.1

Doors: 1138, 1129, 1106, 2125, 2137, 3123, 1545, 2104, 2159, 1162, 3131, 1524.1, 1505, 1504, 1503, 3146

3.0	Hinge	FBB179 NRP 45X45	26D	BES
1.0	Power Transfer	EPT-12C	26D	BES

1.0	Electromechanical Cylindrical Lock	9KW 3 7 DEU 14C LM RQE PATD	626	BES
1.0	Door Closer	EHD90 16 SDS90	689	BES
1.0	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1.0	Gasketing	5050 Head & Jambs (2)	B	NGP
1.0	Wall Reader	BY SECURITY CONTRACTOR		
1.0	Door Position Switch	BY SECURITY CONTRACTOR		
1.0	Power Supply	BY SECURITY CONTRACTOR		

NOTE: DOOR NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL RELEASES LEVER FOR INGRESS. EMERGENCY KEY OVERRIDE. RQE SWITCH IN LEVERSET TO SHUNT ALARM. FREE EGRESS AT ALL TIMES.

Set #123.2

Doors: 1142, 2510.2

3.0	Hinge	FBB179 NRP 45X45	26D	BES
1.0	Power Transfer	EPT-12C	26D	BES
1.0	Electromechanical Cylindrical Lock	9KW 3 7 DEU 14C LM RQE PATD	626	BES
1.0	Door Closer	EHD90 16 AF90P	689	BES
1.0	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1.0	Gasketing	5050 Head & Jambs (2)	B	NGP
1.0	Wall Reader	BY SECURITY CONTRACTOR		
1.0	Door Position Switch	BY SECURITY CONTRACTOR		
1.0	Power Supply	BY SECURITY CONTRACTOR		
1.0	Dome Stop	1211	630	TRI

NOTE: DOOR NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL RELEASES LEVER FOR INGRESS. EMERGENCY KEY OVERRIDE. RQE SWITCH IN LEVERSET TO SHUNT ALARM. FREE EGRESS AT ALL TIMES.

Set #124.1 - HW

Doors: 1502, 1512, 1520.1, 1527, 1116.1, 1116.1A, 1123.1, 1137, 2503, 2510.1, 3117, 1546.1

3.0	Hinge	FBB168 NRP 5X45	26D	BES
1.0	Cylindrical Lock	9K 3 7 D 14 C LM PATD	626	BES
1.0	Door Closer	EHD90 16 AF90P	689	BES
1.0	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1.0	Gasketing	5050 Head & Jambs (2)	B	NGP
1.0	Dome Stop	1211	630	TRI

Set #124

Doors: 1504.1, 1505A, 1510, 1531.1, 1533.1, 1534.1, 1535.1, 1538.1, 1547, 1104.1, 1107.2, 1108.1, 1139, C1103, 2512.1, 2105.1, 2138, 2155.1, 3503, 3103, 3115, 3130, 3138, 3147C, 3150, 1511.1

3.0	Hinge	FBB179 NRP 45X45	26D	BES

1.0	Cylindrical Lock	9K 3 7 D 14 C LM PATD	626	BES
1.0	Door Closer	EHD90 16 AF90P	689	BES
1.0	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1.0	Gasketing	5050 Head & Jambs (2)	B	NGP
1.0	Dome Stop	1211	630	TRI

Set #125

Doors: 1505B, 1520.1A, 1100B, 1135, 1135A, 2101, 2157, 3101, 3114, 3136, 3151

1.0	Hardware	BY OTHERS		

Set #129

Doors: C3700

1.0	Hardware	Unable to Locate		

Set #130

Doors: 1500B, 1500C, C1508A, 1100, 1100C, 1100D, 1101A, 1113, 1113A, 1161A, C1100.A

2.0	Continuous Hinge	SL27	CL	SEL
1.0	Keyed Removeable Mullion	KR822	689	PRE
2.0	Exit Device	2103 CD CA-03	630	PRE
2.0	Pull	1097 PHI	630	TRI
3.0	Rim Cylinder	12E 7 2 PATD	626	BES
2.0	Mortise Cylinder	1E 7 4 PATD	626	BES
2.0	Door Closer	EHD90 16 SDS90	689	BES
1.0	Drip Cap	16 4" ODW	A	NGP
1.0	Gasketing	BY ALUM DOOR/FRAME MANUFACTURER		
2.0	Sweep	200S LAR	A	NGP
1.0	Threshold	8425 LAR	A	NGP

Set #131

Doors: 1150B, 1150A

2.0	Continuous Hinge	SL27	CL	SEL
1.0	Keyed Removeable Mullion	KR822	689	PRE
2.0	Exit Device	2103 CD CA-03	630	PRE
2.0	Pull	1097 PHI	630	TRI
3.0	Rim Cylinder	12E 7 2 PATD	626	BES
2.0	Mortise Cylinder	1E 7 4 PATD	626	BES
2.0	Door Closer	EHD90 16 SDS90	689	BES
1.0	Gasketing	BY ALUM DOOR/FRAME MANUFACTURER		

Set #132 - Gates

Doors: Gate 3

2.0	Gate Hinge/Closer Set	Mammoth 180		LOC
1.0	Keyed Removeable Mullion	KR822	689	PRE
2.0	Exit Device	2103 CD CA-03	630	PRE
2.0	Pull	1097 PHI	630	TRI
3.0	Rim Cylinder	12E 7 2 PATD	626	BES
2.0	Mortise Cylinder	1E 7 4 PATD	626	BES

NOTE: ALL REMAINING HARDWARE BY GATE MANUFACTURER

Set #133 - Gates

Doors: Gate 1

1.0	Gate Hinge/Closer Set	Mammoth 180		LOC
1.0	Exit Device	2103 CD CA-03	630	PRE
1.0	Pull	1097 PHI	630	TRI
1.0	Rim Cylinder	12E 7 2 PATD	626	BES
1.0	Mortise Cylinder	1E 7 4 PATD	626	BES

NOTE: ALL REMAINING HARDWARE BY GATE MANUFACTURER

Set #134 - Gates

Doors: Gate 2

1.0	Padlock	11B-7-22	606	BES

NOTE: ALL REMAINING HARDWARE BY GATE MANUFACTURER

SECTION 09 65 66 - RESILIENT ATHLETIC FLOORING

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:
   1. Rubber sheet flooring, adhesively installed.

B. Related Requirements:

1.3 REFERENCE STANDARDS

A. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers--Tension; 2016 (Reapproved 2021).

B. DIN EN 14904 - Surfaces for Sports Areas – Indoor Surfaces for Multi-Sports Use – Specification; 2006.

1.4 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene a preinstallation meeting one week before starting work of this section; require attendance by all affected installers; review preparation and installation procedures and coordination and scheduling necessary for related work.

1.5 SUBMITTALS

A. Refer to Section 01 33 00 - Submittal Procedures for submittal procedures.

B. Product Data: Manufacturer's printed data sheets for products specified.

C. Shop Drawings: Fabrication and installation details, and layout, colors, and widths of game lines and equipment locations.

D. Selection Samples: Manufacturer's color charts for flooring materials specified and game line paints, indicating full range of colors and textures available.

E. Verification Samples: Actual flooring material specified, not less than 12 inch (305 mm) square, mounted on solid backing.
   1. Include samples of game lines, illustrating colors selected.

F. Test Reports: Submit test reports showing compliance with DIN EN 14904.

G. Concrete Subfloor Test Report: Submit a copy of the moisture and alkalinity (pH) test reports.

H. Sustainable Design Submittal: Submit VOC content documentation for flooring and adhesives.

I. Manufacturer's Instructions: Indicate standard and special installation procedures.

J. Installer's qualification statement.

K. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. Refer to Section 01 60 00 - Product Requirements for additional provisions.
   2. Extra Flooring Material: 10 square yards (9 sq m) matching installed flooring.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with at least three years of documented experience.

B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Refer to Section 01 74 19 - Construction Waste Management and Disposal for packaging waste requirements.

B. Deliver materials to project site in unopened containers clearly labeled with manufacturer's name and identification of contents.

C. Store materials in dry and clean location until needed for installation. During installation, handle in a manner that will prevent marring and soiling of finished surfaces.

1.8 FIELD CONDITIONS

A. Maintain temperature in spaces to receive adhesively installed resilient flooring within range of 70 to 95 degrees F (21 to 35 degrees C) for not less than 48 hours before the beginning of installation and for not less than 48 hours after installation has been completed. Subsequently, do not allow temperature in installed spaces to drop below 50 degrees F (10 degrees C) or to go above 100 degrees F (38 degrees C).

PART 2 PRODUCTS

2.1 PREFORMED ATHLETIC FLOORING

A. All products by the same manufacturer.

B. Acceptable Manufacturers:
   1. Specifications are based on the products identified as Basis of Design. Manufacturers listed whose products meet or exceed the specifications are approved for use in the Work. Other manufacturers must have a minimum of five (5) years' experience manufacturing products meeting or exceeding the specifications and comply with Division 01 requirements regarding substitutions to be considered.
      a. Burke Flooring: www.burkeflooring.com/#sle.
      b. Dinoflex Group: www.dinoflex.com/#sle.
      c. Grid: www.builtbygrid.com/#sle.
      d. LG Hausys America, Inc; : www.lghausysusa.com/#sle.
      e. No Fault Sport Group: www.nofault.com/#sle.
      f. Pawling Corporation: www.pawling.com/#sle.
      g. Robbins Sports Surfaces: www.robbinsfloor.com/#sle.
      h. Tarkett Sports: www.tarkettsportsindoor.com/#sle.
      i. Ultimate RB: www.ultimaterb.com/#sle.
      j. U.S. Rubber Recycling, Inc: www.usrubber.com/#sle.
   2. Substitutions: Refer to Section 01 25 13 - Product Substitution Procedures.

C. Rubber Sheet Flooring (PRA-1-2): Recycled SBR (styrene butadiene rubber) and colored EPDM granules with urethane binder, lengths to avoid transverse seams.
   1. Thickness: Minimum 18mm.
   2. Sheet Width: Minimum 48 inches (1220 mm).
   3. Tensile Strength: Minimum 150 psi (1.0 MPa), per ASTM D412.
   4. Color:
      a. PRA-1: RA1 Mellowed.
      b. PRA-2: 507 Night.
   5. Products:
      a. Replay as manufactured by Tarkett.

D. Indoor Turf Athletic Flooring (PRA-3):
   1. Basis of Design: Drop Turf manufactured by Tarkett Sports.
   2. Color: Green.
   3. Size: Roll, 15 feet wide by custom length as required by application.
   4. Fiber Height: 0.75 inches.
   5. Fiber Type: Split-Film and Thatch.
   6. Gauge: 3/16.
   7. Backing: 5 mm.

2.2 ACCESSORIES

A. Flooring Adhesive: Waterproof; types recommended by flooring manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine substrates for conditions detrimental to installation of athletic flooring. Proceed with installation only after unsatisfactory conditions have been corrected.

B. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of athletic flooring to substrate.

3.2 PREPARATION

A. Remove coatings that are incompatible with flooring adhesives, using methods recommended by flooring manufacturer.

B. Broom clean areas to receive athletic flooring immediately before beginning installation.

3.3 INSTALLATION

A. Starting installation constitutes acceptance of subfloor conditions.

B. Install in accordance with manufacturer's written instructions.

C. Resilient Sheet Flooring:
   1. Unroll flooring and allow to relax before beginning installation.
   2. Mix adhesive thoroughly and apply to substrate with notched trowel. Roll flooring into fresh adhesive, overlapping end seams and double cutting, butting factory edges and compression fitting.
   3. Roll entire flooring surface with steel roller to assure adhesion to substrate and eliminate air bubbles.
   4. Immediately remove any adhesive from flooring surface, using chemical recommended by flooring manufacturer.
   5. Weld seams using techniques and equipment recommended by manufacturer.
   6. Lay out game lines using tape and taping machine approved by flooring manufacturer. Apply game line paint with roller, and allow to dry before removing tape.
   7. Apply transparent top coat over flooring if recommended by manufacturer, to achieve a uniform finished appearance.

3.4 CLEANING

A. Clean flooring using methods recommended by manufacturer.

3.5 PROTECTION

A. Protect finished athletic flooring from construction traffic to ensure that it is without damage upon Date of Substantial Completion.

END OF SECTION 09 65 66

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SECTION 09 84 00 - ACOUSTIC ROOM COMPONENTS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. The provisions of the General Conditions, Supplementary Conditions, Drawings, Specifications, and the Sections included under Division 01 General Requirements and References, are included as a part of this Section as though bound herein.

1.2 SUMMARY

A. Section Includes:
   1. Fabric-covered acoustic room components.

B. Related Sections:
   1. Section 05 50 00 - Metal Fabrications: Miscellaneous metal supports.

1.3 REFERENCES

A. ASTM C365/C365M - Standard Test Method for Flatwise Compressive Properties of Sandwich Cores; 2022.

B. ASTM C423 - Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method; 2017.

C. ASTM C636/C636M - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels; 2019 (Reapproved 2025).

D. ASTM D3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber; 2021.

E. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023d.

F. ASTM E1111/E1111M - Standard Test Method for Measuring the Interzone Attenuation of Open Office Components; 2014 (Reapproved 2022).

G. ASTM E1414/E1414M - Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum; 2021a.

1.4 SUBMITTALS

A. Product Data:
   1. Manufacturer’s specifications and other data needed to prove compliance with specified requirements.
   2. Manufacturer’s installation instructions.

B. Shop Drawings: Show panel joints, detail references, dimensions and methods of attachment.

C. Samples: 12 inch x 12 inch sample of actual material and color charts showing manufacturer's full range of colors for Architect’s selection.

1.5 QUALITY ASSURANCE

A. Provide acoustical panels, diffusers and fabrics of each type required from one (1) manufacturer, of uniform texture and color.

B. Installer. Provide evidence of appropriate experience in system installation and that installation method proposed is acceptable to panel manufacturer.

C. Single Source Responsibility: Obtain acoustical panel materials from a single manufacturer.

1.6 DELIVERY, STORAGE AND HANDLING

A. Carefully protect work during shipment, storage and installation.

B. Deliver materials to job site and store elevated above floor in an enclosed space with proper ventilation and protection from damage.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Subject to compliance with specification requirements, products by the listed manufacturers or fabricators may be submitted for use in the Work.
   1. Acoustical Panels:
      a. Acoustical Resources, Inc.
      b. Armstrong World Industries.
      c. Autex Acoustics.
      d. AVL Systems, Inc.
      e. Benton Brothers Solutions, Inc.
      f. CSI Creative.
      g. Conwed Designscapes.
      h. Decoustics.
      i. Finelite, Inc.: www.finelite.com,
      j. Golterman & Sabo, Inc.
      k. Kirei USA, LLC.
      l. Lamvin, Inc.
      m. MBI Products Company.
      n. Rockfon.
      o. Sky Acoustics.
      p. Sound Concepts.
      q. Wall Technology, Inc.
   2. Wood Fiber Acoustical Panels:
      a. Cardinal Acoustics: www.cardinalacoustics.com.
      b. Tectum, a division of Armstrong World Industries, Inc.

B. Substitutions: Refer to Section 01 25 13 - Product Substitution Procedures.
   1. Manufacturers and fabricators not listed must have a minimum of 5 years' experience manufacturing products meeting or exceeding the specifications and comply with Division 01 requirements regarding substitutions to be considered. Submit as a substitution

2.2 DESCRIPTION

A. Regulatory Requirements:
   1. Code Standards:
      a. Refer to specification Section 01 41 00 - Regulatory Requirements for code requirements and code standards applicable to all materials and work necessary to complete the scope of work.

2.3 MATERIALS

A. Fabric-Faced Acoustical Room Components:
   1. Acoustical Room Component Type 1 (ARC-1): All panels over 7 feet-0 inches above finished floor.
      a. Basis of Design Product/Manufacturer: EchoLine as manufactured by Kirei USA.
      b. Type: Absorber Panels.
      c. Core Composition: 6-7 PCF medium density single glass fiber core.
      d. Flame Spread: Class A, 25 or less.
      e. Shape: Rectangle.
      f. Panel Edge Profile: Square, chemically hardened.
      g. Size:Large.
      h. Thickness: 1 inches.
      i. Color: Refer to Drawings.
   2. Acoustical Room Component Type 2 (ARC-2, 3 & 4): All panels below 7 feet-0 inches above finished floor.

a. Basis of Design: Coligo Rectangle as manufactured by MPS Acoustics.
b. Type: Absorber Panels – Impact Resistant, Tackable.
c. Core Composition: 6-7 PCF medium density single glass fiber core laminated with 1/8 inch thick compressed high density acoustically transparent glass fiber face of 16-20 PCF.
d. Flame Spread: Class A, 25 or less.
e. NRC: 0.95 in accordance with ASTM C423.
f. Panel Edge Profile: Square, chemically hardened.
g. Color(s):
    1) ARC-2: As selected by Architect from Manufacturer's full line.
    2) ARC-3: 03 Marble.
    3) ARC-4: 04 Graphite.
h. Size: Two (2) inches thick by size shown on drawings (2-1/8 inch overall)

3. Acoustical Room Component Type 3 (ARC-5, 6 & 7):
    a. Basis of Design: Shapes Wall Tile as manufactured by Acoufelt.
    b. Type: Absorber Panels. Provide impact resistant panels where indicated on Drawings.
    c. Core Composition: 6-7 PCF medium density single glass fiber core.
    d. Flame Spread: Class A, 25 or less.
    e. NRC: 1.10 in accordance with ASTM C423.
    f. Panel Edge Profile: Chamfered, chemically hardened.
    g. Shape: Hexagon.
    h. Color(s):
        1) ARC-5: Architect to select from Manufacturer's full range.
        2) ARC-6: GR02 Grey.
        3) ARC-7: CH01 Charcoal.
    i. Size: 1 inch thick by size indicated on Drawings.
4. Acoustic Room Component Type 8 (ARC-8): Ceiling-Hung Baffle
    a. Basis of Design:
        1) Joist LED manufactured by MPS Acoustics.
    b. Material: PET felt: 100% polyester fiber.
    c. Size: Refer to Drawings.
    d. Color: 09 Onlyx; Luminaire.
    e. Flame Spread: Class A, 25 or less in accordance with ASTM E84.
5. Acoustic Room Component (ARC-9, ARC-10):
    a. Basis of Design Product/Manufacturer:
        1) JoistCeiling Baffle manufactured by MPS Acoustics.
    b. Core Composition: PET.
    c. Finish:
        1) ARC-9: 09 Onlyx; Luminaire.
        2) ARC-10: 11 Lemon; Luminaire.
    d. Color: As selected by Architect from manufacturer’s full line.
    e. Thickness: 2-1/8 inches.
    f. Mounting Type: As recommended by Manufacturer.
    g. Flame Spread: Class A, 25 or less.
    h. Noise Reduction Coefficient (NRC) in accordance with ASTM C423.
    i. Size: 2-1/8 inches thick by size shown on drawings.
6. Acoustical Room Component Type 11, 12 & 13 (ARC-11, 12 & 13): ~~Ceiling Hung Panel~~
    a. Basis of Design: ~~Hexagon Ceiling Cloud as manufactured by Acoufelt~~ Fabric Wrapped Acoustical Panels Manufactured by Acoustical Resources.
    b. ~~Baffles~~ Panels:
        1) Type: ~~Ceiling-hung, acoustic baffles.~~ Fabric Wrapped Acoustical Panel

2) Composition: Medium-density, glass fiber core.
3) Panel Shape: As indicated on Drawings.
4) Panel Edge Profile: Manufacturer's standard.
5) Size: 2 inches thick by size indicated on Drawings.
6) Color/ Fabric: ~~As selected by Architect.~~
   (a) ARC-11: 2079 Graphite manufactured by Guilford of Maine.
   (b) ARC-12: 2082 Sunshine manufactured by Guildford of Maine.
   (c) ARC-13: 2053 Asteroid manufactured by Guildford of Maine.

c. Suspension System: As recommended by manufacturer.

7. Cementitious Wood Fiber Panels:
   a. Acoustical Room Component Type 13 (ARC-14): Cementitious Wood Fiber Panels
      1) Basis of Design: “Tectum Finale” manufactured by Armstrong World Industries, Inc.
      2) Material: Aspen wood fibers bonded with inorganic hydraulic cement.
      3) Thickness: 2 inches.
      4) Edge:
         (a) Long Edge: Square.
      5) Size: Refer to Drwings.
      6) Frame: None.
      7) Color: As selected by Architect.
      8) Mounting Style: As indicated on Drawings.
      9) Location: As indicated on Drawings.
8. Acoustical room Component (ARC-15): Ceiling Hung Baffle
   a. Basis of Design: Single Baffles 003 manufactured by CSI Creative.
   b. Model: BFL-SGL-003.
   c. Material: PET.
   d. Thickness: 12mm
   e. Finish: Soundcore.
   f. Color: Architect to select from manufacturer's full range.
9. Acoustical Room Component (ARC-16): Pyramidal Ceiling Diffuser
   a. Basis of Design: “Pyramidal Diffuser” manufactured by Acoustical Resources, Inc.; Associated Fiberglass.
   b. Material: Glass fiber mat core saturated with fire retardant polyester resin molded into one piece special off-set pyramidal shape.
   c. Size/Location: 47-3/4 inch x 47-3/4 inch inches installed in ceiling grid as shown on drawings.
   d. NRC: 0.15.
   e. Finish: Gel coated, lemon-peel textured in color to be selected by Architect from manufacturer’s full line of available colors.
   f. Flame Spread: Class A, 25 or less in accordance with ASTM E84.
10. Fabric Facing: 100 percent polyester fabric, Guilford of Maine Anchorage - 2335 Series in colors selected by Architect from manufacturer's full range of colors, or approved equal. Finish shall be applied directly to face and edges of the panel and returned onto the back of the panel to provide a full finished edge. All corners shall be fully tailored.
11. Mounting Accessories:
    a. Top Clips and Brackets:
       1) Factory mounted concealed mechanical “Z” clips screw fastened to the back of resin hardened spots on panel at maximum 24 inch on center spacing.
       2) Set clips inboard one (1) to two (2) inches from panel edges.
       3) “Z” clips shall engage on galvanized single or double wall brackets with closed ends to prevent lateral panel movement.
       4) Clips shall be fabric covered if exposed to view.

b. Bottom: 6 inch hook & loop brackets shall be shimmed on stacked spacer panels to provide even face alignment.

B. Cementitious Wood Fiber Panels:
1. Acoustical Room Component (ARC-14): Cementitious Wood Fiber Panels
a. Basis of Design: “Tectum Finale” manufactured by Armstrong World Industries, Inc.
b. Material: Aspen wood fibers bonded with inorganic hydraulic cement.
c. Thickness: 2 inches.
d. Edge:
1) Long Edge: Square.
2) Short Edge: Square.
e. Size: Refer to Drwings.
f. Frame: None.
g. Color: As selected by Architect.
h. Mounting Style: As indicated on Drawings.
i. Location: As indicated on Drawings.

PART 3 EXECUTION

3.1 INSPECTION

A. Verify dimensions to insure proper fabrication of materials.

3.2 INSTALLATION

A. Install wall panels, ceiling diffusers, and fabrics only after all wet work has been completed and temperature conditions approximate conditions when space will be occupied.

B. Install wall panels, ceiling diffusers, and fabrics in accordance with manufacturer's instructions and approved shop drawings.

C. Install Tectum Wall Panels on Natatorium walls with venting space between the wall and panels in accordance with manufacturer’s instructions.

D. Install wall panels, and ceiling diffusers in proper alignment. Shim wall track as necessary to provide a level frame work.

E. Arrange wall panels symmetrically on each wall, unless otherwise indicated, Remove wall panels, ceiling diffusers, and fabrics are damaged and unacceptable to Architect and replace with new undamaged materials at no expense to Owner.

END OF SECTION 09 84 00

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SECTION 10 22 39 - FOLDING PANEL PARTITIONS

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Top-supported folding panel partitions, horizontal opening.

B. Related Requirements:
   1. Section 06 10 00 - Rough Carpentry: Wood blocking and track support shimming.
   2. Section 08 71 00 - Door Hardware: Lock cylinders for panels
   3. Section 09 90 00 - Painting and Coating: Field applied paint finish to panels.
   4. Section 10 11 00 - Visual Display Units: Product requirements for markerboard finish for installation by this section.

1.2 REFERENCE STANDARDS

A. ANSI A208.1 - American National Standard for Particleboard; 2022.

B. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.

C. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.

D. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric); 2021.

E. ASTM C1396/C1396M - Standard Specification for Gypsum Board; 2017.

F. ASTM C665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing; 2023.

G. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023d.

H. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements; 2023.

I. ASTM E413 - Classification for Rating Sound Insulation; 2022.

J. ASTM E557 - Standard Guide for Architectural Design and Installation Practices for Sound Isolation Between Spaces Separated by Operable Partitions; 2012 (Reapproved 2020).

K. ASTM E596 - Standard Test Method for Laboratory Measurement of Noise Reduction of Sound-Isolating Enclosures; 2022.

L. ASTM F793/F793M - Standard Classification of Wall Coverings by Use Characteristics; 2025.

1.3 ADMINISTRATIVE REQUIREMENTS

A. Pre-Installation Meeting: Convene at project site seven calendar days prior to scheduled beginning of construction activities of this section to review section requirements.
   1. Require attendance by representatives of installer.
   2. Notify Architect four calendar days in advance of scheduled meeting date.

1.4 SUBMITTALS

A. Refer to Section 01 33 00 - Submittal Procedures, for submittal procedures.

B. Product Data: Provide data on partition materials, operation, hardware and accessories, track switching components, and colors and finishes available.

C. Design Data: Design calculations, bearing seal and signature of structural engineer licensed to practice in the State in which the Project is located, showing loads at points of attachment to the building structure.

D. Shop Drawings: Indicate opening sizes, track layout, details of track and required supports, static and dynamic loads, location and details of pass door and frame, adjacent construction and finish trim, and stacking depth.

E. Samples for Selection: Submit two samples of full manufacturer's color range for selection of colors.

F. Samples for Review: Submit two samples of surface finish, 12 by 12 inches (300 by 300 mm) size, illustrating quality, colors selected, texture, and weight.

G. Certificates: Certify that partition system meets or exceeds specified acoustic requirements.

H. Manufacturer's Instructions: Indicate special procedures.

I. Maintenance Data: Include recommended cleaning methods, cleaning materials, and stain removal methods. Describe cleaning materials detrimental to finish surfaces and hardware finish.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified this section with minimum three years of documented experience.

B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until installation.

1.7 WARRANTY

A. Refer to Section 01 77 00 - Closeout Procedures, for additional warranty requirements.

B. Correct defective Work within five year period after Date of Substantial Completion.

C. Provide two year manufacturer warranty against defects in material and workmanship, excluding abuse.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Subject to compliance with specification requirements, products by the listed manufacturers or fabricators may be submitted for use in the Work.
   1. Folding Panel Partitions - Horizontal Opening:
      a. Kwik-Wall Company: www.kwik-wall.com.
      b. Moderco, Inc: www.moderco.com.
      c. Modernfold, a DORMA Group Company: www.modernfold.com.

B. Substitutions: Refer to Section 01 25 13 - Product Substitution Procedures.
   1. Manufacturers and fabricators not listed must have a minimum of 5 years’ experience manufacturing products meeting or exceeding the specifications and comply with Division 01 requirements regarding substitutions to be considered. Submit as a substitution

2.2 FOLDING PANEL PARTITIONS - HORIZONTAL OPENING

A. Basis of Design Product:
   1. Model 841 manufactured by Moderco, Inc.

B. Folding Panel Partitions: Side opening; paired panels; side stacking; manually operated.

C. Panel Construction:
   1. Frame: 16 gauge, 0.0598 inch (1.52 mm) thick formed sheet steel frame top, bottom, jambs, and intermediates; welded construction, with acoustical insulation fill.
   2. Substrate: Gypsum board.
   3. Panel Substrate Facing: Steel sheet, manufacturer's standard thickness.
   4. Hinges: Continuous piano type.

5. Panel Properties:
   a. Thickness With Finish: 3 inches (75 mm).
   b. Width: Standard width.
   c. Weight: 8 lb/sq ft (40 kg/sq m).

D. Panel Finishes:
   1. Facing: As indicated on Drawings.
   2. Trim: Concealed.

E. Panel Seals:
   1. Panel to Panel Seals: Grooved and gasketed astragals, with continuous flexible ribbed vinyl seal fitted to panel edge construction; color to match panel finish.
   2. Acoustic Seals: Flexible acoustic seals at jambs, meeting mullions, ceilings, retractable floor and ceiling seals, and above track to structure acoustic seal.

F. Suspension System:
   1. Track: Formed steel; 0.12 inch (3 mm) in size; thickness and profile designed to support loads, steel sub-channel and track connectors, and track switches.
   2. Carriers: Steel, ball bearing wheels on trolley carrier at top of every second panel, sized to carry imposed loads, with threaded pendant bolt for vertical adjustment.

G. Performance:
   1. Acoustic Performance:
      a. Noise Reduction Coefficient (NRC): ASTM E596, NRC of 0.65 minimum.
      b. Sound Transmission Class (STC): 50 STC calculated in accordance with ASTM E413, based on tests conducted in accordance with ASTM E90, on panel size of 100 sq ft (9.3 sq m).
   2. Surface Burning Characteristics of Panel Finish: Flame spread/smoke developed index of 25/50, maximum, when tested in accordance with ASTM E84.
   3. Installed partition system track capable of supporting imposed loads, with maximum deflection of 1/360 of span.

H. Operation:
   1. Manual.
   2. Safety Features:
      a. Pocket Door Interlock: Mechanism to prevent operation of panels unless storage pocket doors are fully open.

I. Accessories:
   1. Ceiling Closure: White enameled ceiling closure; aluminum jamb and head molding, fittings and attachments, and intermediate meeting posts.
   2. Pocket Enclosures: Door, frame, and trim to match adjacent walls.
   3. Acoustic Sealant: As recommended by partition manufacturer.

2.3 MATERIALS

A. Aluminum Extrusions: ASTM B221 (ASTM B221M), 6063 alloy, T6 temper.

B. Standard Gypsum Board: ASTM C1396/C1396M, 3/8 inch (9.5 mm) thick, maximum permissible length; ends square cut, square edges.

C. Fire Rated Gypsum Board: ASTM C1396/C1396M, Type X, UL rated; 1/2 inch (12.7 mm) thick, maximum practical length; ends square cut, square edges.

D. Acoustic Insulation:
   1. Type: As required for acoustic performance indicated.
   2. Thickness: As required for acoustic performance indicated.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that field measurements are as indicated.

B. Verify that required utilities are available, of the correct characteristics, in proper location, and ready for use.

C. Verify track supports are laterally braced and will permit track to be level within 1/4 inch (6.4 mm) of required position and parallel to the floor surface.

D. Verify floor flatness of 1/8 inch in 10 feet (3 mm in 3 m), non-cumulative.

E. Verify wall plumbness of 1/8 inch in 10 feet (3 mm in 3 m), non-cumulative.

3.2 INSTALLATION

A. Install partition in accordance with manufacturer's instructions and ASTM E557.

B. Install electric operator, wiring, and controls. Locate control station(s) as indicated.

C. Fit and align partition assembly and pocket doors level and plumb.

D. Lubricate moving components.

E. Install acoustic sealant to achieve required acoustic performance.

F. Coordinate electrical connections.

3.3 ADJUSTING

A. Adjust partition assembly to provide smooth operation from stacked to full open position. Do not over-compress acoustic seals.

B. Visually inspect partition in full extended position for light leaks to identify a potential acoustical leak.

C. Adjust partition assembly to achieve lightproof seal.

3.4 CLEANING

A. Clean finish surfaces and partition accessories.

3.5 CLOSEOUT ACTIVITIES

A. Demonstrate operation of partition and identify potential operational problems.

END OF SECTION 10 22 39

control purposes, interfaces for all available apps or associated playback control functions, Bluetooth pairing and allow the user to navigate back to the Auto mode, Manual Mode or Media Controls page.

i. The “VIDEO CONTROLS” page shall automatically power on the display or projector and drop the projector screen/lift, and route the HDMI source from the ‘PS’ to all associated destinations. Provide buttons to allow the user to navigate back to the home page or system shutdown page.

j. The “DIVIDE/COMBINE” page shall provide selection of the 3 room spaces between Team Room 1969 and Conditioning 1968 as one functioning system, or two independent systems, or 3 independent systems. Functionality shall be for failover in cases where partition sensor is not detecting open or closed partitions for auto divide/combine.

k. When system shutdown is selected, a prompt shall appear with the text “PLEASE CONFIRM SHUTDOWN”. The user will then select a button labeled “Yes” or “No”. If no is selected, the “HOME” page shall appear. If yes is selected, a system shutdown loading bar shall appear. All amplifiers and video displays/projectors shall be put in standby mode, projector screens/lifts raised and shades opened. Once the system shutdown sequence is complete, the “SYSTEM START UP” page shall be visible.

2.21 AUXILIARY GYMNASIUM A & B ADDENDUM #5

A. LOUDSPEAKERS (1 qty. in each Gym)

1. Octasound SP800A.
   a. Mount to where speaker is level with the bottom of the bar-joist, or 8” below finished ceiling.
   b. Provide proper mounting hardware. Paint exposed hardware to match ceiling.

B. AMPLIFIERS

1. 1 qty. CX-Q 2K4, Network amplifier.
   a. One speaker per channel.

C. DSP, CONTROL AND PERIPHERALS

1. 2 qty. QSC TSC-50-G3, 5” Touch screen controller.
   a. 2 qty. FSR WB-TSC-SM-7.
   b. One in each Gym.
2. 1 qty. QSC Core 8 Flex.
   c. 1 qty. Q-SYS CORE 8 FLEX/ CORE NANO, SINGLE MOUNT, 19- INCH mounting hardware for 19 inch rack.
   d. Lan A for QLan/Dante, Lan B for internet (GPISD LAN) access.
   e. Coordinate with the District IT department to provide internet access.
   f. 1 qty. QSC UCI Deployment license.
3. 1 qty. QSC Scripting license.
4. 1 qty. QSC 32 X 32 Dante license.
5. 1 qty. QSC Microsoft Teams license.
6. 2 qty. Attero Tech unD6IO-BT, double-gang US Bluetooth Wall Plate Interface.
   a. One in each Gym.

D. AUDIO NETWORK

1. 1 qty. Netgear M4350-8M2V Fully Managed Switch (MSM4310) 8-Port with 2x SFP ports, PoE ++ Managed Switch

E. PLATES, PANELS AND DISPLAYS - All custom wall plates shall be manufactured by ProCo, RCI or Whirlwind. Anodized aluminum, BLACK with white lettering in 1/8" Sans Serif font.

1. ANTENNA PLATE, "W".
   a. ProCo 2 gang anodized plate, black with 1 qty 50 Ohm BNC connectors and 1 qty Atlas Sound AD-12BE.
   b. Quantity and locations as shown on drawings.

2. ASSISTED LISTENING ANTENNA PLATE, "H".
   a. ProCo single gang antenna plate with 1 qty. 50 Ohm BNC connector.
   b. Quantity and locations as shown on drawings.

H. WIRELESS MICROPHONES

1. 1 qty. Shure ULXD4Q-G50, Four channel digital wireless microphone receiver.
2. 2 qty. Shure ULXD2SM58-G50, wireless microphone handheld transmitter.
   a. One for each Gym.
3. 2 qty. Shure ULXD1-G50, wireless microphone bodypack transmitter.
   a. One for each Gym.
4. 2 qty. Shure SM31FH Fitness headset microphone.
   a. One for each Gym.
5. 2 qty. Shure WA360 mute switches.
   a. One for each Gym.
6. 2 qty. Shure SBC200, 2 bay charging station for wireless microphone transmitters.
7. 4 qty. Shure SB900B, rechargeable wireless microphone batteries.
8. 4 qty. Shure UA8-470-636 – black, ½ antenna.

J. ASSISTED LISTENING SYSTEM

1. 2 qty. LS-54-216 Assisted Listening System
   a. One for each Gym.
2. 2 qty. LA-124 antenna. Install at locations shown on drawings.
3. Provide enough LR-4200-216 Receivers to meet TAS and ADA standards as required by law.
4. Provide with each additional LR-4200-216 Receiver:
   a. 1 qty. LA-401 Ear Speaker.
   b. 1 qty. LA-430 Earphone/Neck Loop Lanyard
5. Provide 1 qty. LA-124 antenna.
6. Coordinate with Architect for installation location of each LA-304 Signage Kit.

K. EQUIPMENT RACK AND ACCESSORIES – LOCATED IN TESTING STORAGE 2511

1. 1 qty. Middle Atlantic DWR-18-26PD, pivoting wall mount rack.
   a. Installed in TESTING STORAGE 2511. Reference drawings for location.
2. 1 qty. Middle Atlantic PDX-920R-SP, Rackmount Power, 9 Outlet, 20A with Series Surge Protection.
3. 1 qty. Middle Atlantic UPS-2200R, Rackmount Uninterruptible Power Supply 1650W.
4. 1 qty. Middle Atlantic D3LK – 3RU Locking Drawer
5. 1 qty. Middle Atlantic FI-3
6. 1 qty. Middle Atlantic DWR-FK6-26 Fan Kit.
7. 1 qty. Middle Atlantic BR2 Brush Plate.

8. Install all rack mounted equipment with Middle Atlantic HTX, T20 Star Post,10-32 security-screws.
9. Provide 5 extra front door keys to the Owner.
10. Provide front door.
11. Populate all unused rack spaces with blank panels.

PART 3 – EXECUTION

3.1 WIRING AND INSTALLATION TECHNIQUES

A. Coordinate all work with all other trades to avoid causing delays in construction schedule. Contractor shall expedite the delivery of materials and provide additional labor as required to meet construction deadline.

B. Coordinate final connection of power and ground wiring to equipment racks by electrical contractor. Power and ground wiring shall terminate inside equipment racks on standard duplex outlets. Mount as to not interfere with internal equipment of the rack. Power shall be a dedicated circuit and not share with any other source. Ground per NEC with third wire (green) to panel ground lug at breaker supply panel.

C. All equipment and enclosures described in this specification section shall be plumb and square. All equipment except portable equipment shall be permanently attached to the structure and held firmly in place. Supports shall be adequate to support their loads with a safety factor of at least five.

D. Wiring and installation under this contract to meet NFPA, NEC, and local code requirements where applicable.

E. The process of equalizing and testing the Audio Sound System may necessitate moving and adjusting certain component parts (e.g., loudspeakers). This shall be done without claim for additional payment.

F. Take such precautions as are necessary to prevent and guard against electromagnetic and electrostatic hum. Separate all low level microphone and auxiliary inputs from speaker output conductors, data or other system wiring.

G. All wiring shall be labeled using vinyl wire labeling tags. Use Brady^{tm} model BMP21 or equal wire labeling printer. Label input, output and wireless wiring. Label electrical power beaker at electrical panel. Label location of room and power panel/breaker at equipment rack. Protect labels with clear heat shrink.

H. Label all mixer inputs with their respective input. Example: mixer input 1 – “Mic-1”, etc. Label to reflect name on engraved wall plate.

I. Solder all microphone connections using rosin core solder. Use temperature controlled soldering equipment. Microphone XLR connectors shall use standard wiring code as follows: pin 1 shield/ground, pin 2 positive, pin 3 negative.

J. Paint all back boxes and conduit prior to installation of wiring or connectors. Protect and do not paint any wiring or equipment rack cabinets.

K. Install equipment cabinet in a controlled temperature, dry and accessible area. Provide sufficient space to completely open the front and rear of the cabinet. Equipment not to be in general gym area where it can be damaged.

F. Requirements of Local Authorities having Jurisdiction
G. Underwriters Laboratory Requirements and Listings for use in Fire Protective Signaling Systems as follows:

UL 864 Control Panels (9th Edition) UL 268 Smoke Detectors - Systems UL 268A Duct Smoke Detectors
UL 521 Heat Detectors
UL 228 Door Holder-Closers
UL 464 Audible Signaling Appliances UL 1971 Visual Signaling Appliances UL 38 Manual Alarm Stations

1.3 CONTRACTOR QUALIFICATIONS

A. The installing contractor shall be the authorized representative of the fire alarm manufacturer to sell, install, and service the proposed manufacturer's equipment. The installing contractor shall have represented the fire alarm manufacturer's product for at least two years.

B. The installing contractor shall be licensed by the State Fire Marshal to sell, install, and service fire alarm systems as required by the Texas Insurance Code.

C. The installing contractor shall have on his staff an installation technician licensed by the State Fire Marshal's office for such purpose and under whose supervision installation, final connections, and check out will take place as required by the Texas Insurance Code.

D. The installing contractor or equipment supplier shall have on staff a minimum of two (2) certified NICET Level III state licensed fire alarm planning superintendents under whose supervision system design shall take place. In lieu of an alarm planning superintendent, the contractor may provide design supervision by a registered professional engineer.

E. The installing contractor shall provide 24-hour, 365 days per year emergency service with factory trained, state licensed service technicians.

F. The installing contractor shall have been actively engaged in the business of planning, selling, installing, and servicing fire alarm systems in the surrounding area for at least ten (10) years

1.4 ACCEPTABLE MANUFACTURERS

A. Notifier NFS2-3030 series and applicable annunciator panels.

~~B. SilentKnight 6820EVS series as last resort where Notifier is unavailable in acceptable timeframe of construction completion.~~ **ADDENDUM #5**

C. All equipment, materials, accessories, devices, etc. covered by this standard and/or noted on the contract drawings shall be new and unused and be U.L. listed for their intended use.

D. All equipment provided shall be available for purchase from at least two authorized distributors within the greater Houston metropolitan area. Single source proprietary equipment is prohibited unless approved by GPISD.

1.5 SUBMITTALS

provide a broad frequency response range, low harmonic distortion and maintain a high sound pressure level at all tap settings to provide accurate and intelligible broadcast of evacuation messages.

3. Field-selectable settings, including candela, speaker voltage and power settings, and automatic selection of 12- or 24-volt operation enable installers to easily adapt devices to meet requirements.
4. Weatherproof audibles shall be System sensor models or approved equals. The speaker devices shall be able to produce a continuous output or a temporal code-3 output that can be synchronized.
5. Speaker shall be listed to Underwriters Laboratories Standard S4048 for outdoor fire protective signaling systems. Speaker shall have a frequency range of 400 to 4,000 Hz and shall have an operating temperature from –40°F to 150.8°F. Speaker shall have power taps and wattage settings that are selected by rotary switches. The speaker must be installed with its weatherproof back box in order to remain outdoor approved per UL listing S4048. The speaker shall be suitable for use in air handling spaces and wet environments.

N. Single Ended Reflected Type Beam Smoke Sensor with Remote Test Switch: **ADDENDUM #5**

1. ~~The Honeywell OSI-RI-SK intelligent addressable reflector-type linear optical beam smoke detector is uniquely suited for protecting large open areas with high ceilings. The OSI-RI-SK detector is a combined transmitter/receiver and is compatible with Silent Knight Addressable Fire Alarm Control Panels.~~ Provide Notifier FS-OSI-RI intelligent, addressable reflective imaging beam smoke detector for protection of large open areas with high ceilings where spot-type detectors are impractical. The FS-OSI-RI is a combined transmitter/receiver unit that operates on the principle of infrared light obscuration with a high-efficiency reflector and shall be fully compatible with Notifier addressable fire alarm control panels operating in FlashScan® or CLIP mode.
2. ~~The receiver imager automatically tracks the reflector in case of building movement or support structure movement. This allows the OSI-RI-SK to be highly resistant to movement, eliminating the number one cause of false alarms and/or faults with traditional beam detectors. Optical filtering, high-speed image acquisition and intelligent software algorithms provide the system with highly improved resistance to false alarms from sunlight, reflected sunlight or any other very bright light sources. Advanced smoke imaging techniques allow the detector to avoid false alarms from partial and sudden blockage from foreign object intrusion.~~ The receiver imager of the FS-OSI-RI features automatic reflector tracking to tolerate building or support-structure movement, reducing false alarms common to traditional beam detectors. Optical filtering, high-speed image acquisition, and intelligent signal-processing algorithms increase resistance to false alarms from direct or reflected sunlight and other high-intensity light sources. Advanced smoke imaging techniques further minimize false alarms from partial or sudden blockage due to foreign object intrusion.
3. Remote test station capable for electronic simulated smoke test from ground level.
4. 50° horizontal and 20° vertical beam adjustment.

O. Battery

1. The battery shall have sufficient capacity to power the fire alarm system for no less than twenty-four hours plus 15 minutes of alarm upon a normal AC power failure.
2. The batteries are to be completely maintenance free. No liquids are required. Fluid level checks for refilling, spills, and leakage shall not be required.
3. If necessary, to meet standby requirements, external battery and charger systems may be used.

PBK Architects
Project No. 240539

PKG 3B – Athletics, Academic, & Multi-Purpose Facility
Galena Park Independent School District

REQUEST FOR SUBSTITUTION

Contract Award Date: Bidding 1/12/2026

To: PBK Architects

Substitution Requested By: NAH Sports Flooring / Robbins

Project Name and Number: Galena Park ISD PKG 3B Athletics / Academic, Multi-purpose Facility
PBK PROJECT # 240539

We submit for consideration the following product in lieu of the specified item for the above project:

Drawing No.	Specification Section	Paragraph	Specified Item
	096466		Wood Athletic Flooring

Proposed Substitution: Robbins Sports Surfacing

Request is made during ✓ bidding ____ construction period.

Submit in accordance with Section 01 33 00.

1. Technical data, cost, and time information relating to changes to Construction Documents required by proposed substitution.
2. Detailed comparison of proposed substitution and specified product including but not limited to warranty, significant variations, qualifications of manufacturers, and maintenance.
3. Complete technical data, detailed shop drawings, samples, installation procedures, warranty, and substantiating data marked to indicate equivalent quality and performance to that specified. Manufacturer sell sheets are not acceptable submittals.

Cause for Request: Robbins is not specified as a mfg. - There is only 1 mfg. listed.

Cost saving realized by Owner N/A

Does substitution affect adjacent Work, Construction Documents, cost, schedule, quality, and related submittals?

Yes ____ No ✓ On separate sheet, explain affects to the Work, documents, schedule, and submittals.

The Contractor is responsible for associated costs and additional time of the proposed substitution including costs incurred by the Architect for evaluation of substitution and changes to the documents. Describe costs for changes to design, including engineering and detailing costs caused by the requested substitution.

Warranty: Is the warranty for the requested substitution the same or different? Yes ____ No ✓

Explain Differences: None other than the manufacturer

Contractor Certification:

In making a request for substitution, the Contractor certifies that:

1. The proposed substitution has been thoroughly researched and evaluated and determined as equivalent or superior to specified product or material, will fit into space provided, and is compatible with adjacent materials.
2. It will provide the same or better warranty for the proposed substitution at no additional cost to the Owner.

3. Cost data is complete and includes related costs under the Contract. Claims for additional costs related to the proposed substitution that may subsequently become apparent are waived.
4. It will assume the responsibility for delays and costs caused by the proposed substitution, if approved, are accepted by the Contractor unless delays are and costs are specifically mentioned and approved in writing by the Owner and the Architect.
5. It will assume the liability for the performance of the substitution and its performance.
6. The installation of the proposed substitution is coordinated with the Work and with changes required for the Work.
7. It will reimburse the Owner and Architect for evaluation and redesign services associated with the substitution request and, when required, by approval by governing authorities.

Submitted by:

Signature of Contractor — V.P. Sales - Texas — Title

NAH Sports Flooring — 713-956-2700 — 12/23/2025

Firm — Telephone — Date

Signature shall be by the individual authorized to legally bind the Contractor's to the above terms. Failure to provide legally binding signature will result in retraction of approval.

FOR USE BY ARCHITECT:

☑ Accepted ___ Accepted as Noted
___ Not Accepted ___ Received Too Late

By: gloria carlos

Date: 01/06/2026

Remarks: Eclipse® (anchored)

FOR USE BY OWNER:

____ Accepted ____ Not Accepted

By: _____

By: _____

Remarks: _____

END OF SECTION 01 25 00

REQUEST FOR SUBSTITUTION

Contract Award Date: _____

To: PBK Architects, Inc.

Substitution Requested By: Dynamic Sports Construction, Inc.

Project Name and Number: Galena Park High School Package 3B Project No. 240539

We submit for consideration the following product in lieu of the specified item for the above project:

Drawing No.	Specification Section	Paragraph	Specified Item
A-901B	09 65 66	2.1 C	Tarkett Replay 18mm

Proposed Substitution: DynaFit® Performance 18.5mm

Request is made during ✓ bidding _____ construction period.

Submit in accordance with Section 01 33 00.

1. Technical data, cost, and time information relating to changes to Construction Documents required by proposed substitution.
2. Detailed comparison of proposed substitution and specified product including but not limited to warranty, significant variations, qualifications of manufacturers, and maintenance.
3. Complete technical data, detailed shop drawings, samples, installation procedures, warranty, and substantiating data marked to indicate equivalent quality and performance to that specified. Manufacturer sell sheets are not acceptable submittals.

Cause for Request: Request is for approval of product equal to the specified product.

Cost saving realized by Owner Approval of our system provides for competitive bidding which typically saves an owner money.

Does substitution affect adjacent Work, Construction Documents, cost, schedule, quality, and related submittals?

Yes _____ No ✓ On separate sheet, explain affects to the Work, documents, schedule, and submittals.

The Contractor is responsible for associated costs and additional time of the proposed substitution including costs incurred by the Architect for evaluation of substitution and changes to the documents. Describe costs for changes to design, including engineering and detailing costs caused by the requested substitution.

Proposed substitution does not cause any costs for changes.

Warranty: Is the warranty for the requested substitution the same or different? Yes ✓ No _____

Explain Differences: _____

Contractor Certification:

In making a request for substitution, the Contractor certifies that:

1. The proposed substitution has been thoroughly researched and evaluated and determined as equivalent or superior to specified product or material, will fit into space provided, and is compatible with adjacent materials.
2. It will provide the same or better warranty for the proposed substitution at no additional cost to the Owner.

3. Cost data is complete and includes related costs under the Contract. Claims for additional costs related to the proposed substitution that may subsequently become apparent are waived.
4. It will assume the responsibility for delays and costs caused by the proposed substitution, if approved, are accepted by the Contractor unless delays are and costs are specifically mentioned and approved in writing by the Owner and the Architect.
5. It will assume the liability for the performance of the substitution and its performance.
6. The installation of the proposed substitution is coordinated with the Work and with changes required for the Work.
7. It will reimburse the Owner and Architect for evaluation and redesign services associated with the substitution request and, when required, by approval by governing authorities.

Submitted by:

Robert Wolosensky — President
Signature of Contractor — Title

Dynamic Sports Construction, Inc. — 512-260-6722 — 12/19/25
Firm — Telephone — Date

Signature shall be by the individual authorized to legally bind the Contractor's to the above terms. Failure to provide legally binding signature will result in retraction of approval.

FOR USE BY ARCHITECT:

✓ Accepted ___ Accepted as Noted
___ Not Accepted ___ Received Too Late

By: gloria carlos

Date: 01/06/2026

Remarks: _____

FOR USE BY OWNER:

____ Accepted ___ Not Accepted

By: _____

By: _____

Remarks: _____

END OF SECTION 01 25 00

PBK Architects
Project No. 240539

PKG 3B – Athletics, Academic, & Multi-Purpose Facility
Galena Park Independent School District

REQUEST FOR SUBSTITUTION

Contract Award Date: Bidding 1/12/2026

To: PBK Architects

Substitution Requested By: NAH sports flooring / ECORE

Project Name and Number: Galena Park ISD PKG 3B Athletics, Academic, Multipurpose facility
PBK project # 240539

We submit for consideration the following product in lieu of the specified item for the above project:

Drawing No.	Specification Section	Paragraph	Specified Item
	096566	Resilient Athletic Flooring	

Proposed Substitution: ECORE Premium Fit 18mm

Request is made during ✓ bidding ____ construction period.

Submit in accordance with Section 01 33 00.

1. Technical data, cost, and time information relating to changes to Construction Documents required by proposed substitution.
2. Detailed comparison of proposed substitution and specified product including but not limited to warranty, significant variations, qualifications of manufacturers, and maintenance.
3. Complete technical data, detailed shop drawings, samples, installation procedures, warranty, and substantiating data marked to indicate equivalent quality and performance to that specified. Manufacturer sell sheets are not acceptable submittals.

Cause for Request: ECORE is Not a listed mfg. however they private label for a couple mfg. listed.

Cost saving realized by Owner N/A

Does substitution affect adjacent Work, Construction Documents, cost, schedule, quality, and related submittals?

Yes ____ No ✓ On separate sheet, explain affects to the Work, documents, schedule, and submittals.

The Contractor is responsible for associated costs and additional time of the proposed substitution including costs incurred by the Architect for evaluation of substitution and changes to the documents. Describe costs for changes to design, including engineering and detailing costs caused by the requested substitution.

Warranty: Is the warranty for the requested substitution the same or different? Yes ____ No ✓

Explain Differences: ____

Contractor Certification:

In making a request for substitution, the Contractor certifies that:

1. The proposed substitution has been thoroughly researched and evaluated and determined as equivalent or superior to specified product or material, will fit into space provided, and is compatible with adjacent materials.
2. It will provide the same or better warranty for the proposed substitution at no additional cost to the Owner.

3. Cost data is complete and includes related costs under the Contract. Claims for additional costs related to the proposed substitution that may subsequently become apparent are waived.
4. It will assume the responsibility for delays and costs caused by the proposed substitution, if approved, are accepted by the Contractor unless delays are and costs are specifically mentioned and approved in writing by the Owner and the Architect.
5. It will assume the liability for the performance of the substitution and its performance.
6. The installation of the proposed substitution is coordinated with the Work and with changes required for the Work.
7. It will reimburse the Owner and Architect for evaluation and redesign services associated with the substitution request and, when required, by approval by governing authorities.

Submitted by:

Signature of Contractor — V.P. Sales TX (Title)

NAH Sports Flooring (Firm) 713-956-2700 (Telephone) 12/23/2025 (Date)

Signature shall be by the individual authorized to legally bind the Contractor's to the above terms. Failure to provide legally binding signature will result in retraction of approval.

FOR USE BY ARCHITECT:

✓ Accepted ___ Accepted as Noted
___ Not Accepted ___ Received Too Late

By: gloria carlos

Date: 01/06/2026

Remarks: _____

FOR USE BY OWNER:

____ Accepted ____ Not Accepted

By: _____

By: _____

Remarks: _____

END OF SECTION 01 25 00

REQUEST FOR SUBSTITUTION

Contract Award Date: TBD

To: PBK Architects

Substitution Requested By: Rob Pelletier Construction

Project Name and Number: Galena Park High School Package 3B - 240539

We submit for consideration the following product in lieu of the specified item for the above project:

Drawing No.	Specification Section	Paragraph	Specified Item
A2.03	10 22 39	Folding Partition	Modernfold

Proposed Substitution: Moderco Signature 842 Manual

Request is made during _X_ bidding _____ construction period.

Submit in accordance with Section 01 33 00.

1. Technical data, cost, and time information relating to changes to Construction Documents required by proposed substitution.
2. Detailed comparison of proposed substitution and specified product including but not limited to warranty, significant variations, qualifications of manufacturers, and maintenance.
3. Complete technical data, detailed shop drawings, samples, installation procedures, warranty, and substantiating data marked to indicate equivalent quality and performance to that specified. Manufacturer sell sheets are not acceptable submittals.

Cause for Request: Competitive bidding and we would like to submit with our manufacturer Moderco

Cost saving realized by Owner TBD

Does substitution affect adjacent Work, Construction Documents, cost, schedule, quality, and related submittals?

Yes _____ No _X_ On separate sheet, explain affects to the Work, documents, schedule, and submittals.

The Contractor is responsible for associated costs and additional time of the proposed substitution including costs incurred by the Architect for evaluation of substitution and changes to the documents. Describe costs for changes to design, including engineering and detailing costs caused by the requested substitution.

Our work will not affect other trades or alter any documents

Warranty: Is the warranty for the requested substitution the same or different? Yes _X_ No _____

Explain Differences: None

Contractor Certification:

In making a request for substitution, the Contractor certifies that:

1. The proposed substitution has been thoroughly researched and evaluated and determined as equivalent or superior to specified product or material, will fit into space provided, and is compatible with adjacent materials.
2. It will provide the same or better warranty for the proposed substitution at no additional cost to the Owner.

3. Cost data is complete and includes related costs under the Contract. Claims for additional costs related to the proposed substitution that may subsequently become apparent are waived.
4. It will assume the responsibility for delays and costs caused by the proposed substitution, if approved, are accepted by the Contractor unless delays are and costs are specifically mentioned and approved in writing by the Owner and the Architect.
5. It will assume the liability for the performance of the substitution and its performance.
6. The installation of the proposed substitution is coordinated with the Work and with changes required for the Work.
7. It will reimburse the Owner and Architect for evaluation and redesign services associated with the substitution request and, when required, by approval by governing authorities.

Submitted by:

Anthony Fitzgerald — Estimator

Signature of Contractor — Title

Rob Pelletier Construction — 12/22/2025

Firm — Telephone — Date

Signature shall be by the individual authorized to legally bind the Contractor's to the above terms. Failure to provide legally binding signature will result in retraction of approval.

FOR USE BY ARCHITECT:

☑ Accepted ___ Accepted as Noted
___ Not Accepted ___ Received Too Late

By: gloria carlos

Date: 01/07/2026

Remarks: _____

FOR USE BY OWNER:

____ Accepted ___ Not Accepted

By: _____

By: _____

Remarks: _____

END OF SECTION 01 25 00

REQUEST FOR SUBSTITUTION

Contract Award Date: Bid Due date: Jan. 12, 2026

To: _____

Substitution Requested By: Houston Steel Equipment

Project Name and Number: Galena Park ISD PKG 3B Ath., Academic, & Multi-Purpose Facility

We submit for consideration the following product in lieu of the specified item for the above project:

Drawing No.	Specification Section	Paragraph	Specified Item
A-101A & A-101B plus	10 56 13	2.1 Manufacturers	2.1- A.-1.

Proposed Substitution: Dixie Shelving Concept Local Houston Supplier of Four Post Metal Shelving

Request is made during X bidding _____ construction period.

Submit in accordance with Section 01 33 00.

1. Technical data, cost, and time information relating to changes to Construction Documents required by proposed substitution.
2. Detailed comparison of proposed substitution and specified product including but not limited to warranty, significant variations, qualifications of manufacturers, and maintenance.
3. Complete technical data, detailed shop drawings, samples, installation procedures, warranty, and substantiating data marked to indicate equivalent quality and performance to that specified. Manufacturer sell sheets are not acceptable submittals.

Cause for Request: Competitive pricing Local Houston Business

Cost saving realized by Owner _____

Does substitution affect adjacent Work, Construction Documents, cost, schedule, quality, and related submittals?

Yes _____ No X On separate sheet, explain affects to the Work, documents, schedule, and submittals.

The Contractor is responsible for associated costs and additional time of the proposed substitution including costs incurred by the Architect for evaluation of substitution and changes to the documents. Describe costs for changes to design, including engineering and detailing costs caused by the requested substitution.

Dixie / Shelving Concepts is a locally owned Manufacturer Dixie would be a cost savings

Warranty: Is the warranty for the requested substitution the same or different? Yes same No _____

Explain Differences: Lyon Workspace is equal to the manufactures listed on the 10 56 13 Metal Shelving specs

Contractor Certification:

In making a request for substitution, the Contractor certifies that:

1. The proposed substitution has been thoroughly researched and evaluated and determined as equivalent or superior to specified product or material, will fit into space provided, and is compatible with adjacent materials.
2. It will provide the same or better warranty for the proposed substitution at no additional cost to the Owner.

3. Cost data is complete and includes related costs under the Contract. Claims for additional costs related to the proposed substitution that may subsequently become apparent are waived.
4. It will assume the responsibility for delays and costs caused by the proposed substitution, if approved, are accepted by the Contractor unless delays are and costs are specifically mentioned and approved in writing by the Owner and the Architect.
5. It will assume the liability for the performance of the substitution and its performance.
6. The installation of the proposed substitution is coordinated with the Work and with changes required for the Work.
7. It will reimburse the Owner and Architect for evaluation and redesign services associated with the substitution request and, when required, by approval by governing authorities.

Submitted by:

_____
Signature of Contractor Title

_____
Firm Telephone Date

Signature shall be by the individual authorized to legally bind the Contractor's to the above terms. Failure to provide legally binding signature will result in retraction of approval.

FOR USE BY ARCHITECT:

✓ Accepted ___ Accepted as Noted
___ Not Accepted ___ Received Too Late

By: gloria carlos

Date: 01/06/2026

Remarks: _____

FOR USE BY OWNER:

____ Accepted ___ Not Accepted

By: _____

By: _____

Remarks: _____

END OF SECTION 01 25 00

REQUEST FOR SUBSTITUTION

Contract Award Date: Bid Due date: Jan. 12, 2026

To: _____

Substitution Requested By: Houston Steel Equipment

Project Name and Number: Galena Park ISD PKG 3B Ath., Academic, & Multi-Purpose Facility

We submit for consideration the following product in lieu of the specified item for the above project:

Drawing No.	Specification Section	Paragraph	Specified Item
A-101A & A-101B plus	10 56 13	2.1 Manufacturers	2.1- A.-1.

Proposed Substitution: Lyon Workspace

Request is made during X bidding _____ construction period.

Submit in accordance with Section 01 33 00.

1. Technical data, cost, and time information relating to changes to Construction Documents required by proposed substitution.
2. Detailed comparison of proposed substitution and specified product including but not limited to warranty, significant variations, qualifications of manufacturers, and maintenance.
3. Complete technical data, detailed shop drawings, samples, installation procedures, warranty, and substantiating data marked to indicate equivalent quality and performance to that specified. Manufacturer sell sheets are not acceptable submittals.

Cause for Request: Competitive pricing

Cost saving realized by Owner _____

Does substitution affect adjacent Work, Construction Documents, cost, schedule, quality, and related submittals?

Yes _____ No X On separate sheet, explain affects to the Work, documents, schedule, and submittals.

The Contractor is responsible for associated costs and additional time of the proposed substitution including costs incurred by the Architect for evaluation of substitution and changes to the documents. Describe costs for changes to design, including engineering and detailing costs caused by the requested substitution.

Lyon Workspace is a Manufacturer on the Locker specs. Combining Lockers and Shelving to a single Manufacture would be a cost savings

Warranty: Is the warranty for the requested substitution the same or different? Yes same No _____

Explain Differences: Lyon Workspace is equal to the manufactures listed on the 10 56 13 Metal Shelving specs

Contractor Certification:

In making a request for substitution, the Contractor certifies that:

1. The proposed substitution has been thoroughly researched and evaluated and determined as equivalent or superior to specified product or material, will fit into space provided, and is compatible with adjacent materials.
2. It will provide the same or better warranty for the proposed substitution at no additional cost to the Owner.

3. Cost data is complete and includes related costs under the Contract. Claims for additional costs related to the proposed substitution that may subsequently become apparent are waived.
4. It will assume the responsibility for delays and costs caused by the proposed substitution, if approved, are accepted by the Contractor unless delays are and costs are specifically mentioned and approved in writing by the Owner and the Architect.
5. It will assume the liability for the performance of the substitution and its performance.
6. The installation of the proposed substitution is coordinated with the Work and with changes required for the Work.
7. It will reimburse the Owner and Architect for evaluation and redesign services associated with the substitution request and, when required, by approval by governing authorities.

Submitted by:

_____
Signature of Contractor Title

_____
Firm Telephone Date

Signature shall be by the individual authorized to legally bind the Contractor's to the above terms. Failure to provide legally binding signature will result in retraction of approval.

FOR USE BY ARCHITECT:

✓ Accepted ___ Accepted as Noted
___ Not Accepted ___ Received Too Late

By: gloria carlos

Date: 01/06/2026

Remarks: _____

FOR USE BY OWNER:

____ Accepted ___ Not Accepted

By: _____

By: _____

Remarks: _____

END OF SECTION 01 25 00

PBK Architects
Project No. 240539

PKG 3B – Athletics, Academic, & Multi-Purpose Facility
Galena Park Independent School District

REQUEST FOR SUBSTITUTION

Contract Award Date: _____

To: PBK

Substitution Requested By: Platinum Visual

Project Name and Number: PKG 3B - Athletics, Academic & M/P facility #240539

We submit for consideration the following product in lieu of the specified item for the above project:

Drawing No.	Specification Section	Paragraph	Specified Item
A's	10 1100	2.3. A. 12	Claridge.

Proposed Substitution: Platinum Visual

Request is made during ✓ bidding _____ construction period.

Submit in accordance with Section 01 33 00.

1. Technical data, cost, and time information relating to changes to Construction Documents required by proposed substitution.
2. Detailed comparison of proposed substitution and specified product including but not limited to warranty, significant variations, qualifications of manufacturers, and maintenance.
3. Complete technical data, detailed shop drawings, samples, installation procedures, warranty, and substantiating data marked to indicate equivalent quality and performance to that specified. Manufacturer sell sheets are not acceptable submittals.

Cause for Request: Platinum would like to bid

Cost saving realized by Owner unknown

Does substitution affect adjacent Work, Construction Documents, cost, schedule, quality, and related submittals? No

Yes _____ No ✓ On separate sheet, explain affects to the Work, documents, schedule, and submittals.

The Contractor is responsible for associated costs and additional time of the proposed substitution including costs incurred by the Architect for evaluation of substitution and changes to the documents. Describe costs for changes to design, including engineering and detailing costs caused by the requested substitution.

n/a

Warranty: Is the warranty for the requested substitution the same or different? Yes ✓ No _____

Explain Differences: negligible - See marked up 10 1100 attached.

Contractor Certification:

In making a request for substitution, the Contractor certifies that:

1. The proposed substitution has been thoroughly researched and evaluated and determined as equivalent or superior to specified product or material, will fit into space provided, and is compatible with adjacent materials.
2. It will provide the same or better warranty for the proposed substitution at no additional cost to the Owner.

3. Cost data is complete and includes related costs under the Contract. Claims for additional costs related to the proposed substitution that may subsequently become apparent are waived.
4. It will assume the responsibility for delays and costs caused by the proposed substitution, if approved, are accepted by the Contractor unless delays are and costs are specifically mentioned and approved in writing by the Owner and the Architect.
5. It will assume the liability for the performance of the substitution and its performance.
6. The installation of the proposed substitution is coordinated with the Work and with changes required for the Work.
7. It will reimburse the Owner and Architect for evaluation and redesign services associated with the substitution request and, when required, by approval by governing authorities.

Submitted by: Melissa Bracy

Mel Bracy — Texas Regional Sales Mgr.
Signature of Contractor — Title

Platinum Vinyl, Local # 480/419-9434 — 12/12/2025
Firm — Telephone — Date

Signature shall be by the individual authorized to legally bind the Contractor's to the above terms. Failure to provide legally binding signature will result in retraction of approval.

FOR USE BY ARCHITECT:

___ Accepted ___ Accepted as Noted
☑ Not Accepted ___ Received Too Late

By: gloria carlos

Date: 01/06/2026

Remarks: No product data information/cut sheets were included for review.

FOR USE BY OWNER:

____ Accepted ___ Not Accepted

By: _____

By: _____

Remarks: _____

END OF SECTION 01 25 00

Knowledge for Creating and Sustaining the Built Environment

SUBSTITUTION REQUEST

(During the Bidding/Negotiating Phase)

Project:	Galena ISD - Galena Park High School Phase 3B Academic Wing MP Athletics	Substitution Request Number:	
	Galena Park, TX	From:	Peachtree Protective Covers, Inc.
To:	PBK Architects, Inc.	Date:	December 31, 2025
		A/E Project Number:	
Re:	Substitution Request - Metal Canopies	Contract For:	Metal Canopies

Specification Title: Metal Canopies Description: Manufacturers

Section: 107316.13 Page: 3 Article/Paragraph: 2.1

Proposed Substitution: Peachtree Protective Covers, Inc.

Manufacturer: PPC Address: 3255 S. Sweetwater Rd., Lithia Springs, GA 30122 Phone: (770) 439-2120

Trade Name: Extruded Aluminum Walkway Covers Model No: N/A

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request: applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by:	Clyde Miller
Signed by:	Clyde Miller
Firm:	Peachtree Protective Covers, Inc.
Address:	3255 S. Sweetwater Rd.
	Lithia Springs, GA 30122
Telephone:	(770) 439-2120

A/E's REVIEW AND ACTION

☐ Substitution approved – Make submittals in accordance with Specification Section 01330.

☐ Substitution approved as noted – Make submittals in accordance with Specification Section 01330.

☑ Substitution rejected – Use specified materials.

☑ Substitution Request received too late – Use specified materials.

Signed by: **gloria carlos** Date: **01/06/2026**

Supporting Data Attached: ☐ Drawings ☒ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ _____

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99 Canal Center Plaza, Suite 300 Alexandria, VA 22314

Form used is not from the project manual found in Division 01 25 13.01 Request for Substitution Form.

PBK Architects
Project No. 240539

PKG 3B – Athletics, Academic, & Multi-Purpose Facility
Galena Park Independent School District

REQUEST FOR SUBSTITUTION

Contract Award Date: _____

To: Sydney McKay, Project Control Specialist, Galena Park ISD

Substitution Requested By: Worthington Contract Furniture, Field Agent for Irwin Seating Company

Project Name and Number: Galena Park HS Pkg 3B (Academic Wing, Multi-Purpose Facility, and Athletics Complex 25-605

We submit for consideration the following product in lieu of the specified item for the above project:

Drawing No.	Specification Section	Paragraph	Specified Item
_____	12 66 13-Telescoping Bleachers	2.01 Manufacturers	Hussey Seating Co. "Maxium 26" Series - Wall attached

Proposed Substitution: Irwin Seating Company's VersaTract Telescopic Seating with the Infinity Seat.

Request is made during _X_ bidding _____ construction period.

Submit in accordance with Section 01 33 00.

1. Technical data, cost, and time information relating to changes to Construction Documents required by proposed substitution.
2. Detailed comparison of proposed substitution and specified product including but not limited to warranty, significant variations, qualifications of manufacturers, and maintenance.
3. Complete technical data, detailed shop drawings, samples, installation procedures, warranty, and substantiating data marked to indicate equivalent quality and performance to that specified. Manufacturer sell sheets are not acceptable submittals.

Cause for Request: We are not a dealer for Hussey Seating Company

Cost saving realized by Owner Unknown

Does substitution affect adjacent Work, Construction Documents, cost, schedule, quality, and related submittals?

Yes _____ No _X_ On separate sheet, explain affects to the Work, documents, schedule, and submittals.

The Contractor is responsible for associated costs and additional time of the proposed substitution including costs incurred by the Architect for evaluation of substitution and changes to the documents. Describe costs for changes to design, including engineering and detailing costs caused by the requested substitution.

None

Warranty: Is the warranty for the requested substitution the same or different? Yes _X_ No _____

Explain Differences: _____

Contractor Certification:

In making a request for substitution, the Contractor certifies that:

1. The proposed substitution has been thoroughly researched and evaluated and determined as equivalent or superior to specified product or material, will fit into space provided, and is compatible with adjacent materials.
2. It will provide the same or better warranty for the proposed substitution at no additional cost to the Owner.

3. Cost data is complete and includes related costs under the Contract. Claims for additional costs related to the proposed substitution that may subsequently become apparent are waived.
4. It will assume the responsibility for delays and costs caused by the proposed substitution, if approved, are accepted by the Contractor unless delays are and costs are specifically mentioned and approved in writing by the Owner and the Architect.
5. It will assume the liability for the performance of the substitution and its performance.
6. The installation of the proposed substitution is coordinated with the Work and with changes required for the Work.
7. It will reimburse the Owner and Architect for evaluation and redesign services associated with the substitution request and, when required, by approval by governing authorities.

Submitted by:

Signature of Contractor Alex Murrell	RSM South Central Title
Irwin Seating Co. Firm	720-601-2112 Cell Telephone
12/29/2025 Date	

Signature shall be by the individual authorized to legally bind the Contractor's to the above terms. Failure to provide legally binding signature will result in retraction of approval.

FOR USE BY ARCHITECT:

☐ Accepted
☑ Not Accepted
☐ Accepted as Noted
☑ Received Too Late

By: gloria carlos

Date: 01/06/2026

Remarks: District uses Hussey

FOR USE BY OWNER:

____ Accepted ____ Not Accepted

By: _____

By: _____

Remarks: _____

END OF SECTION 01 25 00

' this sheet is not 30"
y, 42" it is a reduced
rint, scale accordingly

1/16"=1' 0 16 32 48 | 1/8"=1' 0 8 16 24 | 1/4"=1' 0 4 8 12 | 1/2"=1' 0 2 4 6 | 3/4"=1' 0 2 4 | 1"=1' 0 1 2 3 | 1 1/2"=1' 0 1 2 | 3"=1' 0 1

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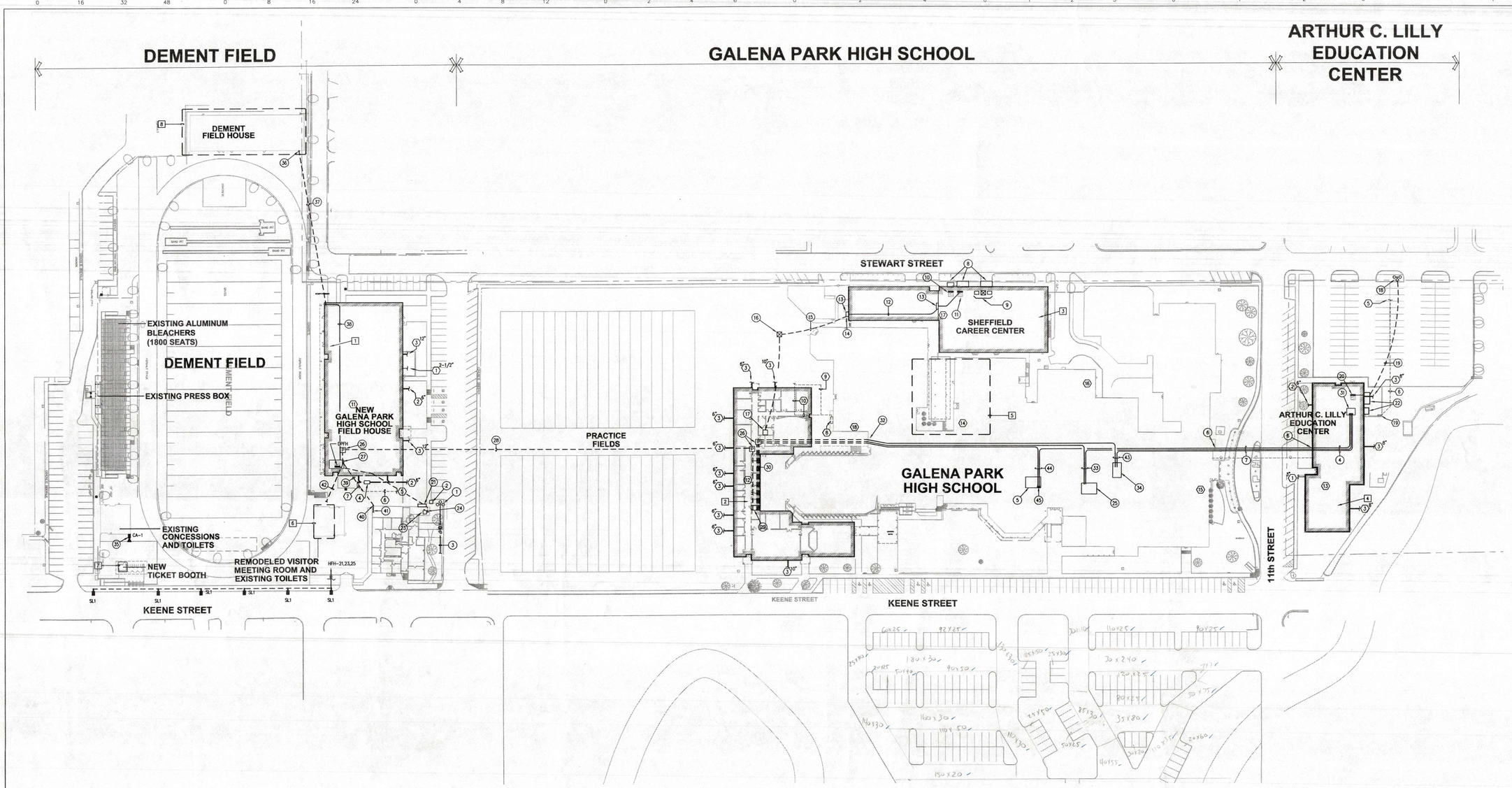


1 MEP10 MECHANICAL, ELECTRICAL AND PLUMBING SITE PLAN

1"=60'-0"

ELECTRICAL KEYED PLAN NOTES:

1. EXISTING POLE MOUNTED TRANSFORMER BANK TO REMAIN. REVISE SERVICE DROP FROM OVERHEAD TO UNDERGROUND. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
2. PROVIDE ALL NECESSARY MATERIAL AND LABOR REQUIRED TO RELOCATE EXISTING TELEPHONE SERVICE TO THE PORTION OF THE EXISTING EXTERIOR WALL WHICH IS TO REMAIN.
3. EXISTING OVERHEAD PRIMARY TO REMAIN.
4. DATA, TV, P/A, SECURITY, CCTV, AND FIRE ALARM CABLE TO BE ROUTED IN CEILING PLENUM TO RESPECTIVE HEADEND ROOMS.
5. APPROXIMATE LOCATION OF NEW CATV HEADEND ROOM @2001.4 ON THE SECOND FLOOR.
6. SEAL WALL PENETRATIONS WEATHER TIGHT.
7. ROUTE SIX (6) 3" CONDUITS WITH PULLSTRINGS UNDER THE BRIDGE. SECURE CONDUITS TIGHT TO BOTTOM OF BRIDGE. ONE CONDUIT DEDICATED FOR EACH DISCIPLINE DATA, TV, P/A, SECURITY, CCTV, AND FIRE ALARM.
8. EXISTING BUSED WEATHER HEAD REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
9. EXISTING ELECTRICAL EQUIPMENT ON ROOF TO REMAIN.
10. EXISTING 120/208V, 3 PHASE, FOUR WIRE SWITCHBOARD TO REMAIN.
11. EXISTING 277/480V, 3 PHASE, FOUR WIRE SWITCHBOARD TO REMAIN. SOURCE OF POWER FOR NEW FINE ARTS ADDITION. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
12. NEW FINE ARTS BUILDING FEEDER ROUTED ON ROOF. COORDINATE ROUTING WITH EXISTING CONDITIONS
13. HDHL-3R PULL BOX ON ROOF. SIZED PER NEC. FIELD COORDINATE LOCATION WITH EXISTING CONDITION.
14. ROUTE FEEDER DOWN TO BELOW GRADE ON FACE OF EXTERIOR WALL.
15. ROUTE FEEDER UNDERGROUND IN GRASSY AREA. BORE BELOW WALLS WHERE REQUIRED.
16. FLUSH WITH GRADE TRAFFIC RATED PULL BOX WITH BOLT DOWN COVER. FIELD COORDINATE EXACT PLACEMENT.
17. TURN FEEDER UP IN MECHANICAL ROOM AND ROUTE UP TO MECHANICAL MEZZANINE.
18. PROPOSED LOCATION OF CENTER POINT ENERGY POLE MOUNTED TRANSFORMER BANK. POINT OF ATTACHMENT TO 277/480V, 3 PHASE, 4 WIRE ELECTRICAL SERVICE. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
19. UNDERGROUND SECONDARY ELECTRICAL SERVICE ENTRANCE. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
20. DISTRIBUTION PANEL DPH. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
21. WALL MOUNTED BUSSED WEATHERHEAD. REFER TO ONE LINE FOR ADDITIONAL INFORMATION.
22. WALL MOUNTED CT CAN AND METER. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
23. EXISTING DISCONNECT SWITCH TO REMAIN. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
24. CONTRACTOR SHALL STUB-UP NEW UNDERGROUND SECONDARY FEEDER FROM NEW BUSSED WEATHERHEAD AT EXTERIOR WALL UP AND PENETRATE EXISTING WALL AND RECONNECT TO EXISTING 400A SWITCH. SEAL WATERTIGHT PENETRATION.
25. APPROXIMATE LOCATION OF EXISTING MDF ROOM @1004.
26. CONTRACTOR TO PROVIDE PULL BOX AS REQUIRED BY NEC AND CABLE MANUFACTURER.
27. APPROXIMATE LOCATION OF NEW IDF "H" ROOM @1919. CABLE ROUTED TO THIS LOCATION FROM MDF ROOM IS A CONTINUOUS RUN THROUGH CONDUIT AND PLENUM SPACE.
28. ROUTE FOUR (4) 3" CONDUITS WITH PULLSTRING FROM IDF "F" LOCATION UNDER SLAB TO STUB UP IN IDF "H". ONE CONDUIT DEDICATED FOR EACH DATA, P/A, FIRE ALARM AND TV.
29. APPROXIMATE LOCATION OF NEW IDF "F" ROOM @1208.
30. ROUTE SIX (6) 3" CONDUITS WITH PULLSTRING FROM IDF "F" LOCATION UNDER SLAB TO OUTSIDE EXISTING BUILDING. ONE CONDUIT DEDICATED FOR EACH DISCIPLINE DATA, P/A, FIRE ALARM, TV, SECURITY AND CCTV. CONTRACTOR NOT TO EXCEED ALLOWABLE BEND RADIUS REQUIRED BY CABLE MANUFACTURER.
31. APPROXIMATE LOCATION OF NEW IDF "G" ROOM @1707.
32. ROUTE SIX (6) 3" CONDUITS WITH PULLSTRING UP SIDE OF BUILDING. MAKE WATERTIGHT PENETRATION TO FIRST FLOOR CEILING PLENUM. COORDINATE EXACT LOCATION OF PENETRATION WITH ARCHITECT.
33. DATA, P/A, AND FIRE ALARM CABLE TO BE ROUTED DOWN CORRIDOR IN CEILING PLENUM TO EXISTING MDF ROOM 1004.
34. APPROXIMATE LOCATION OF EXISTING CCTV HEAD END ROOM @1119.2.
35. MOUNT CAMERA IN BOX ROUGHED IN BY OTHERS.
36. ROUTE FIVE (5) 3" CONDUITS UP EXTERIOR WALL OF EXISTING FIELD HOUSE ABOVE CEILING LINE. MAKE WEATHER TIGHT PENETRATION ABOVE CEILING AND FIELD COORDINATE POINT OF ENTRY WITH EXISTING CONDITIONS.
37. ROUTE FIVE (5) 3" CONDUITS BELOW GRADE AND STUB UP IN NEW FIELD HOUSE ROOM @1916. ONE CONDUIT DEDICATED FOR EACH DISCIPLINE DATA, P/A, TV, SECURITY AND CCTV.
38. ROUTE DATA, P/A, TV, SECURITY AND CCTV CABLE IN ACCESSIBLE CEILING TO IDF "H"
39. ROUTE ONE (1) 3" CONDUIT, DEDICATED FOR DATA, UNDER GROUND. STUB UP IN IDF "H" NEAR PHONE BOARD.
40. ROUTE ONE (1) 3" CONDUIT UP EXTERIOR WALL OF EXISTING DAY CARE/POLICE BUILDING ABOVE CEILING LINE. ENTER BUILDING ABOVE CEILING. SEAL WALL PENETRATION WEATHER TIGHT. FIELD COORDINATE POINT OF ENTRY INTO BUILDING WITH EXISTING CONDITIONS.
41. ROUTE DATA CABLE FROM IDF "H" IN NEW FIELD HOUSE TO EXISTING DAY CARE/POLICE BUILDING IDF.
42. CONTINUE, CAPPED AND FLAGGED, 3" CONDUIT FROM BASE OF LIGHTING STANDARD UNDER GRADE TO STUB UP IN ELECTRICAL ROOM @1919 AT TELEPHONE BOARD.
43. CCTV CABLE TO BE ROUTED DOWN CORRIDOR IN CEILING PLENUM TO EXISTING CCTV HEADEND ROOM @1119.2.
44. TV CABLE TO BE ROUTED DOWN CORRIDOR IN CEILING PLENUM TO EXISTING CATV HEADEND ROOM @2001.4.
45. ELECTRICAL CONTRACTOR, ROUTE TWO (2) 3" CONDUITS FROM FIRST FLOOR TO SECOND FLOOR CEILING PLENUM FOR ROUTING OF TV CABLES. MAINTAIN FIRE RATING ON ALL FLOOR PENETRATIONS. PROVIDE PROPER BUSHINGS AS REQUIRED TO PROTECT CABLING DURING INSTALLATION. PAINT CONDUIT TO MATCH EXISTING WALL. TIGHT. FIELD COORDINATE POINT OF PENETRATION WITH EXISTING CONDITIONS.

NOTE:
CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING TO AVOID DAMAGE TO POWER, COMMUNICATIONS, WATER AND/OR/GAS LINES, BURIED IN AREA OF NEW CONSTRUCTION.

PLUMBING KEYED PLAN NOTES:

1. DOMESTIC WATER SERVICE ENTRY, SIZE AS NOTED, REFER TO CIVIL UTILITY DRAWINGS FOR CONTINUATION BEYOND 5' OF THE BUILDING LINE.
2. SANITARY BUILDING DRAIN, SIZE AS NOTED, REFER TO CIVIL UTILITY DRAWINGS FOR CONTINUATION BEYOND 5' OF THE BUILDING LINE AND TO PLUMBING FLOOR PLAN FOR INVERT ELEVATION INFORMATION.
3. STORM DRAIN, SIZE AS NOTED, REFER TO CIVIL UTILITY DRAWINGS FOR CONTINUATIONS BEYOND 5' OF THE BUILDING LINE AND PLUMBING FLOOR PLAN FOR AREA DRAINED INFORMATION. SET ALL STORM DRAINS 48" BFF.
4. LINT TRAP (500 GALLONS) SEE DETAIL 11/P3.01 AND REFER TO FLOOR PLAN SHEET P2.01 FOR ADDITIONAL DETAIL IN THIS AREA.
5. EXTENSION OF GAS SERVICE LINE TO UTILITY MAIN AND CONNECTION SHALL BE BY THE GAS UTILITY COMPANY. THIS CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY ALL REQUIRED FEES ASSOCIATED WITH THE NEW GAS SERVICE AND GAS SETTING OF THE METER ASSEMBLY. FIELD COORDINATE EXACT LOCATION AND ROUTING OF GAS SERVICE LINE WITH ALL TRADES PRIOR TO INSTALLATION.
6. GAS SERVICE YARD LINE BY GAS UTILITY COMPANY, FIELD COORDINATE EXACT LOCATION AND ROUTING WITH ALL TRADES PRIOR TO INSTALLATION.
7. GAS METER ASSEMBLY. FOR TOTAL CONNECTED DEMAND OF 600 CFH TO BE SUPPLIED AT 5 PSIG BUILDING SERVICE PRESSURE. PROVIDE REGULATOR ON METER OUTLET FOR 8 OUNCE SERVICE TO BUILDING. PROVIDE MINIMUM 3 PROTECTIVE BOLLARDS TO PROTECT FROM VEHICLE TRAFFIC
8. EXISTING GAS METER TO REMAIN – NO NEW DEMAND ON THIS METER.
9. EXISTING GAS SERVICE YARD LINE RELOCATED; FIELD COORDINATE EXACT LOCATION.
10. EXISTING GAS SERVICE YARD LINE TO BE REMOVED.
11. REFER TO SHEET P2.01 FOR PLUMBING IN THIS AREA
12. REFER TO SHEET P2.02 FOR PLUMBING IN THIS AREA
13. REFER TO SHEET P2.03 FOR PLUMBING IN THIS AREA
14. REFER TO SHEET P2.04, DRAWING 1 FOR PLUMBING IN THIS AREA
15. REFER TO SHEET P2.04, DRAWING 2 FOR PLUMBING IN THIS AREA
16. REFER TO SHEET P2.04, DRAWING 3 FOR PLUMBING IN THIS AREA
17. REFER TO SHEET P2.05, DRAWING 1 FOR PLUMBING IN THIS AREA
18. REFER TO SHEET P2.05, DRAWING 2 FOR PLUMBING IN THIS AREA
19. GAS METER ASSEMBLY. FOR TOTAL CONNECTED DEMAND OF 750 CFH TO BE SUPPLIED AT 5 PSIG BUILDING SERVICE PRESSURE. PROVIDE REGULATOR ON METER OUTLET FOR 8 OUNCE SERVICE TO BUILDING. PROVIDE MINIMUM 3 PROTECTIVE BOLLARDS TO PROTECT FROM VEHICLE TRAFFIC

MECHANICAL KEYED PLAN NOTES:

1. REFER TO 1/M2.01 FOR MECHANICAL WORK IN THIS AREA.
2. REFER TO 1/M2.02 FOR MECHANICAL WORK IN THIS AREA.
3. REFER TO 1/M2.03 & 2/M2.03 FOR MECHANICAL WORK IN THIS AREA.
4. REFER TO 1/M2.04 FOR MECHANICAL WORK IN THIS AREA.
5. REFER TO 1/M3.06 & 5/M3.02 FOR MECHANICAL WORK IN THIS AREA.
6. REFER TO 3/M3.02 FOR MECHANICAL WORK IN THIS AREA.
7. REFER TO 4/M3.02 FOR MECHANICAL WORK IN THIS AREA.
8. REFER TO X/MX.0X FOR MECHANICAL WORK IN THIS AREA.

GENERAL REMODELING NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE VERIFIED EXISTING JOB-SITE CONDITIONS DURING THE BIDDING PERIOD, SO HE WILL HAVE OBTAINED THE SCOPE OF ELECTRICAL WORK INVOLVED AS A RESULT OF THE LIGHTING MODIFICATIONS TO THE EXISTING LIGHTING INSTALLATION. THE SCOPE OF THE WORK SHALL INCLUDE MATERIALS AND LIGHTING FIXTURES, CONDITION OF FIXTURES, DEVICES, WHICH MUST BE REROUTED, RELOCATED OR REMOVED EITHER TEMPORARILY OR PERMANENTLY, OR WHICH MUST BE PROVIDED, SO THAT INDICATED REMODELING MAY BE ACCOMPLISHED. NOT ALL EXISTING LIGHTING FIXTURES OR DEVICES ARE NECESSARY INDICATED ON THE DRAWINGS.
2. WHEN LIGHTING FIXTURES ARE ABANDONED, WIRE MUST BE PULLED OUT OF CONDUIT BACK TO THE NEAREST REMAINING BOX OR CABINET AND EXPOSED CONDUIT THAT HAS BEEN ABANDONED MUST BE REMOVED.
3. RE-ESTABLISH SERVICE TO ALL LIGHTING FIXTURES THAT MAY BE INTERRUPTED BECAUSE OF THE REMODELING WORK.
4. PROVIDE ALL APPURTENANCES REQUIRED TO REROUTE, RELOCATE, REMOVE OR REINSTALL ALL ITEMS DESCRIBED IN THESE NOTES.
5. VERIFY THE LOADING OF EACH CIRCUIT AFFECTED BY REMODELING WORK. MAXIMUM LOAD OF ANY BRANCH CIRCUIT MUST NOT EXCEED 80% OF ITS RATING.
6. REMOVE ALL OUTLETS AND WIRING ASSOCIATED WITH ALL EQUIPMENT BEING REMOVED, INCLUDING MECHANICAL AND PLUMBING EQUIPMENT.
7. ALL EXISTING LIGHT FIXTURES TO BE RELOCATED MUST BE CLEANED, RELAMPED AS REQUIRED, AND TOUCHED UP WITH PAINT, AND ALL DAMAGED PARTS REPLACED. THE FIXTURES SHALL THEN BE REINSTALLED AS REQUIRED. PROVIDE NEW BALLAST AS REQUIRED.
8. PROVIDE ADDITIONAL BRANCH BREAKER IN EXISTING PANEL BOARDS AS REQUIRED. IF EXISTING PANEL BOARDS ARE FULL, PROVIDE NEW PANELBOARDS, FEEDERS, BREAKERS, CONDUIT, WIRE, ETC, TO COMPLETE THE REMODEL WORK.

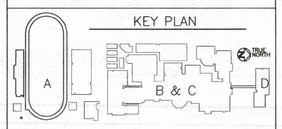
DBR ENGINEERING CONSULTANTS
9990 Richmond Avenue
South Building, Suite 300
Houston, Texas 77042
713.914.0888 p
713.914.0886 f

DBR Project Number 02176.000

REC	AA	PMW	RU

FKP Architects, Inc.
ARCHITECTURE • INTERIOR ARCHITECTURE
PLANNING • EQUIPMENT PLANNING

KEY PLAN



5-5-03

No.	Description	Date:

REVISIONS

Project Name:

GALENA PARK HIGH SCHOOL AND DEMENT FIELD

ADDITIONS & RENOVATIONS

GALENA PARK INDEPENDENT SCHOOL DISTRICT

27501.00

Designed by: AA/PW/RU Date:
Drawn By: AA/PW/RU Date:
Checked by: AA/PW/RU Date:
Approved by: AA/PW/RU Date:

Drawing Title:

OVERALL MEP SITE PLAN

Issue: FOR BID
Scale:
Re: Plan
Date: 5 MAY 2003

Drawing No. MEP1.00

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If this sheet is not 30" by 42", it is a reduced print; scale accordingly.

1/16"=1' 0 16 32 48 | 1/8"=1' 0 8 16 24 | 1/4"=1' 0 4 8 12 | 1/2"=1' 0 2 4 6 | 3/4"=1' 0 2 4 | 1"=1' 0 1 2 3 | 1 1/2"=1' 0 1 2 | 3"=1' 0 1

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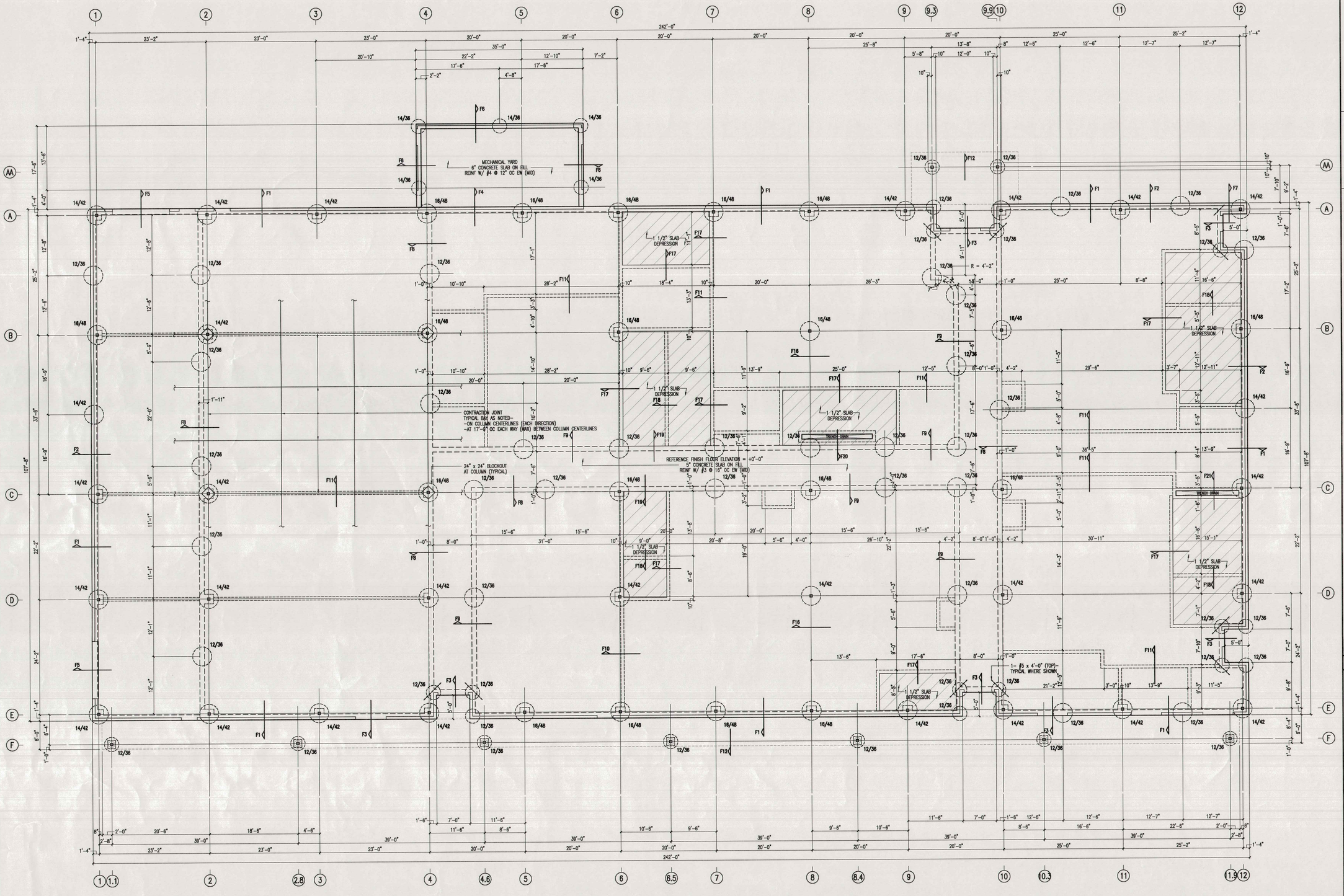


GROUND LEVEL – FIELD HOUSE – AREA "A" – FLOOR AND FOUNDATION PLAN

SCALE 1/8" = 1'-0"

NORTH

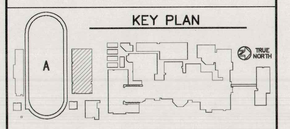
FOUNDATION PLAN NOTES:

1. SEE SHEET S-10 FOR STRUCTURAL GENERAL NOTES.
2. CONTRACTOR IS TO VERIFY SIZE, LOCATION AND DEPTH OF ALL FLOOR DEPRESSIONS, PITS AND TRENCHES W/ 'A' SHEETS PRIOR TO PLACING CONCRETE FOR SAME.

FKP

FKP Architects, Inc.
ARCHITECTURE • INTERIOR ARCHITECTURE
PLANNING • EQUIPMENT PLANNING

KEY PLAN



STATE OF TEXAS
IVAN V. PIERATT
25083
REGISTERED PROFESSIONAL ENGINEER

02117
PSS PARTNERSHIP INC
CONSULTING ENGINEERS
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY IVAN V. PIERATT, P.E. 25083 ON MAY 2, 2003.

Number	Description	Date
2	CLARIFICATION No. 2	09-19-03
1	CLARIFICATION No. 1	07-24-03

REVISIONS

Project Name:

GALENA PARK HIGH SCHOOL AND DEMENT FIELD

ADDITIONS & RENOVATIONS

GALENA PARK INDEPENDENT SCHOOL DISTRICT

27501.00

Designed by: IVP
Drawn by: TFS
Checked by: –
Q.A. by: –

Drawing Title:

GROUND LEVEL FIELD HOUSE AREA "A" FLOOR AND FOUNDATION PLAN

Issue: FOR BID
Scale: 1/8" = 1'-0"
Date: 5 MAY 2003

Drawing No.

S-1

NORTH

15 30
30 0 60

NOTES TO SHEET

1. CONTRACTOR TO COORDINATE SALVAGED ITEMS WITH OWNER PRIOR TO REMOVAL
2. CONTRACTOR SHALL TAKE EXTREME PRECAUTION TO PROTECT THE EXISTING RUNNING TRACK AND TURF FIELD DURING CONSTRUCTION UNDER NO CIRCUMSTANCE SHALL CONSTRUCTION EQUIPMENT OR MATERIALS TRAVEL OVER OR BE PLACED ON THE TURF FIELD
3. TREE REMOVAL SHALL INCLUDE THE REMOVAL OF ENTIRE ROOTBALL AND BACKFILL OF REMAINING VOID IN COMPACTED LIFTS PER GEOTECH
4. CONTRACTOR SHALL SEAL ALL OPENINGS RESULTING FROM THE REMOVAL OF EXISTING STORM SEWER WITHIN THE BOX CULVERT; USE CONCRETE IN ACCORDANCE WITH THE WALL THICKNESS AND REINFORCEMENT SPECIFICATIONS DETAILED ON SHEET C 603.

LEGEND

STRIP EXISTING GRASS AREAS TO 6" DEPTH MINIMUM AND DISPOSE OF SPOILS

LADY OF FATIMA CHURCH

REMOVE AND REPLACE EXIST. CONC. WALK AND CURB RAMP

ABANDON EXIST. 4" WATER

REMOVE EXIST. WATER METER TO REMAIN

REMOVE EXIST. 4" BACKFLOW PREVENTOR

REMOVE EXIST. 4" WATER

SAWCUT, REMOVE EXIST. CONC. PAVEMENT FOR PROP. PUMP HOUSE RE: STRUCTURAL

SAWCUT, REMOVE & REPLACE EXIST. CONC. PAVEMENT FOR THE INSTALLATION OF 6" FIRE LINE

SAWCUT AND REMOVE CONC. PAVEMENT FOR INSTALLATION OF 6" DRY FIRE

SAWCUT AND REMOVE CONC. PAVEMENT FOR INSTALLATION OF 8" SPRINKLER LINE RE: MEP

EXIST. 6" DRY FIRE LINE TO BE REROUTED AND RE-PURPOSED (PER AS BUILTS)

SAWCUT AND REMOVE CONC. PAVEMENT FOR INSTALLATION OF 6" WATER

RE: MEP FOR REMOVAL OF EXISTING EQUIPMENT AND STRUCTURE

REMOVE EXIST. BOLLARDS AROUND CHILLER PLATFORM

SAWCUT AND REMOVE EXIST. CONC. PAVEMENT FOR PROP. BUILDING SLAB RE: STRUCTURAL

SAWCUT AND REMOVE EXIST. CONC. PAVEMENT AS REQUIRED TO INSTALL STEEL CASING TO SANITARY SEWER AS SHOWN IN UTILITY PLAN

REMOVE EXIST. SLAB, AND FENCE

REMOVE & RELOCATE EXIST. GAS METER & LINE (RE: MEP)

REMOVE & RELOCATE EXIST. AC UNIT (RE: MEP)

REMOVE & RELOCATE EXIST. UNDERGROUND VAULT (RE: MEP)

REMOVE EXIST. STORM LINES AND INLETS

REMOVE EXIST. 12" STM.

CAP AND ABANDON EXISTING 8" WATERLINE IN PLACE

REMOVE EXIST. 8" WATER LINE

REMOVE & STORE EXIST. BAND TOWER

REMOVE SIDEWALK

REMOVE EXIST. IRRIGATION LINES AND VALVES

REMOVE EXIST. TREE

REMOVE EXIST. FENCE AND GATE

REMOVE EXIST. UNDERGROUND ELECTRIC

REMOVE & RELINQUISH EXIST. POWER POLE TO OWNER

REMOVE & RELINQUISH EXIST. FENCE AND GATE TO OWNER

REMOVE EXIST. PAVEMENT

REMOVE EXIST. SIGN

REMOVE EXIST. UNDERGROUND VAULT

EXIST. AVADEK CANOPY & COLUMNS TO BE REMOVED AND REINSTALLED. PAVEMENT UNDER AVADEK CANOPY TO BE REMOVED.

EXIST. FENCE & GATE TO REMAIN

REMOVE EXIST. FENCE

REMOVE EXIST. STORM LINES AND INLETS

REMOVE EXIST. 15" STM. & MH (PER AS BUILT)

REMOVE EXIST. FENCE & GATE W/CARD READER

REMOVE EXIST. STREET LIGHTS AND CONCRETE BASE

SEAL 24" DIA. OPENING IN BOX CULVERT RE: NOTE 4

REMOVE EXIST. 6" SAN. LINES AND MH

REMOVE EXIST. 12" STM. (PER AS BUILT)

SEAL 12" DIA. OPENING IN BOX CULVERT RE: NOTE 4

SEAL 12" DIA. OPENING IN BOX CULVERT RE: NOTE 4

REMOVE EXIST. HVAC EQUIPMENTS, SLAB AND FENCE

REMOVE BATTING CAGES

REMOVE EXIST. GAS LINE

REMOVE EXIST. GREASE TRAP

REMOVE EXIST. GAS METER

REMOVE EXIST. HVAC EQUIPMENTS, SLAB AND FENCE

REMOVE EXIST. BUILDING RE: ARCH.

REMOVE EXIST. 12" CLAY

REMOVE EXIST. 8" PVC AND MH

REMOVE EXIST. FENCE

REMOVE EXIST. IRRIGATION LINES AND VALVES

REMOVE EXIST. IRRIGATION LINES AND VALVES

REMOVE EXIST. IRRIGATION LINES AND VALVES

PLUG EXIST 18" STORM

REMOVE EXIST. STORM LINES AND INLETS

REMOVE EXIST. SIDEWALK

RELOCATE EXIST. FIELD LIGHT
REMOVE EXIST. FOOTING

REMOVE EXIST. GATE/POSTS

REMOVE EXIST. STORM LINES AND INLETS

REMOVE EXIST. SIDEWALK
EXIST. TRACK CURB TO REMAIN

REMOVE EXIST. SIDEWALK
EXIST. TRACK CURB TO REMAIN

RELOCATE EXIST. FIELD LIGHT
REMOVE EXIST. FOOTING

REMOVE EXIST. UNDERGROUND ELECTRIC (RE:MEP)

REMOVE EXIST. PAVEMENT

REMOVE & REPLACE EXIST. SIDEWALK, PAVEMENT & CURB FOR THE INSTALLATION OF PROP. SANITARY LINE. MATCH EXISTING PAVEMENT SECTION

REMOVE OH TELECOMM RE: MEP

REMOVE EXIST. POWER POLE RE: MEP

EXIST. FH. TO REMAIN

REMOVE EXIST. POWER POLE

REMOVE EXIST. SIDEWALK

REMOVE OH POWER LINE RE: MEP

CLEAR & GRUB

REMOVE EXIST. CURB & GUTTER

RELOCATE EXIST. SOLAR STAND

RELOCATE EXIST. SIGN

RELOCATE EXIST. CABLE BOX

REMOVE EXIST. POWER POLE RE: MEP

REMOVE OH TELECOMM RE: MEP

REMOVE EXIST. CURB INLET

REMOVE EXIST. ACCESSIBLE RAMP

REMOVE EXIST. ACCESSIBLE RAMP

REMOVE EXIST. STREET SIGN

REMOVE EXIST. SIDEWALK

REMOVE & REPLACE EXIST. ASPHALT PAVEMENT FOR THE INSTALLATION OF PROP. SANITARY LINE. MATCH EXIST. PVMT SECTION

REMOVE EXIST. FENCE AND GATE

REMOVE. EXIST. 6" SAN SWR (PER AS BUILT)

REMOVE EXIST. ACCESSIBLE RAMP

REMOVE EXIST. FENCE AND GATE

REMOVE EXIST. ACCESSIBLE RAMPS

REMOVE EXIST. FENCE

8TH STREET (50' R.O.W.) VOL. 6, PG. 69, H.C.M.R.

7TH STREET (50' R.O.W.) VOL. 6, PG. 69, H.C.M.R.

6TH STREET (50' R.O.W.) VOL. 6, PG. 69, H.C.M.R.

UNIVERSAL CITY ADDITION VOL. 6, PG. 69, H.C.M.R.

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-865-0008

RAJEEB K. RAJBHANDARI
116968
LICENSED
PROFESSIONAL ENGINEER
01/08/2026
ENGINEERS
F-18326

CLIENT
GALENA PARK ISD

DATE: DECEMBER 05, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/18/2025
3	ADDENDUM 5	01/ 8/2026

CHECKED BY: RKR
DRAWN BY: JW

DEMOLITION PLAN

3

C 003

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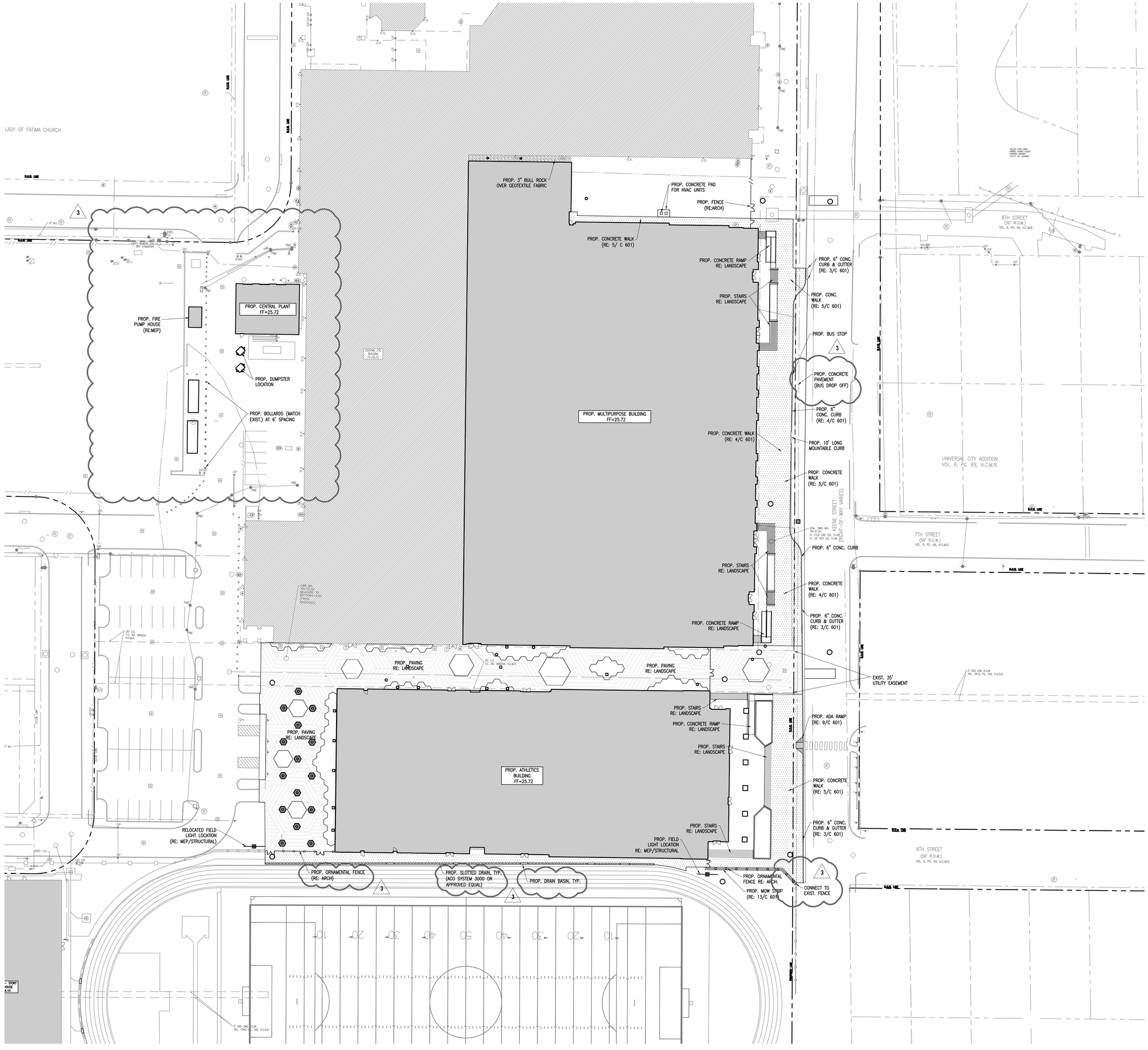

PBK

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TX FIRM: BR 1608
HOUSTON, TX
713-365-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

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116968
LICENSED
PROFESSIONAL ENGINEER
01/08/2026
ENGINEERS
F-18326

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
DECEMBER 05, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/18/2025
3	ADDENDUM 5	01/08/2026

CHECKED BY:RKR

DRAWN BY: JW

SITE PLAN

C 101

B:\24\240539 - GPHS MPFOC\DI\GI\Building Addition Phase 3B\Dwgs\C 101 SITE PLAN.dwg Last Saved: JWHATLEY
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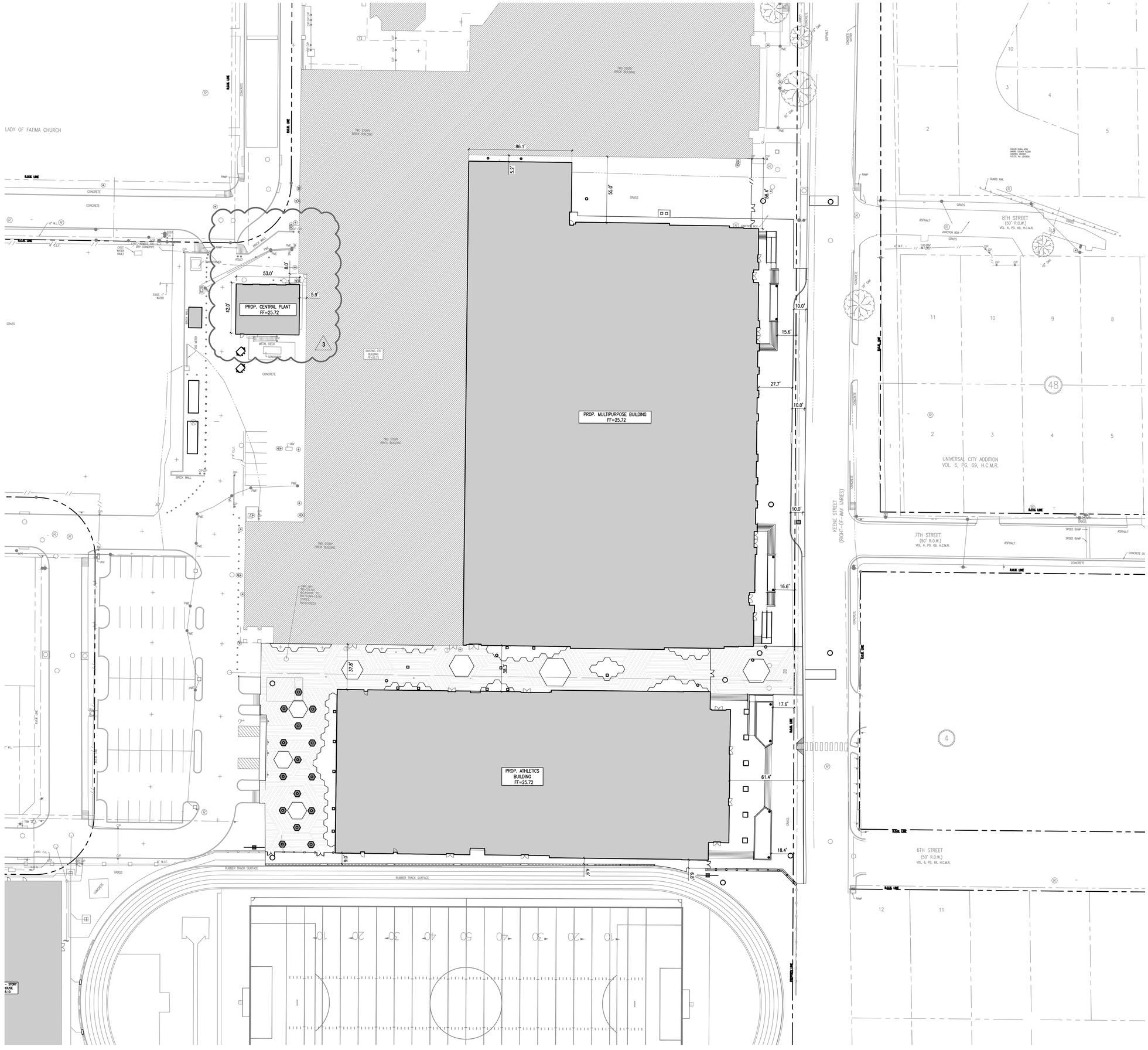

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

RAJEEB K. RAJBHANDARI
116968
LICENSED
PROFESSIONAL ENGINEER
01/08/2026
ENGINEERS
F-18326

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
DECEMBER 05, 2025	240539

DRAWING HISTORY

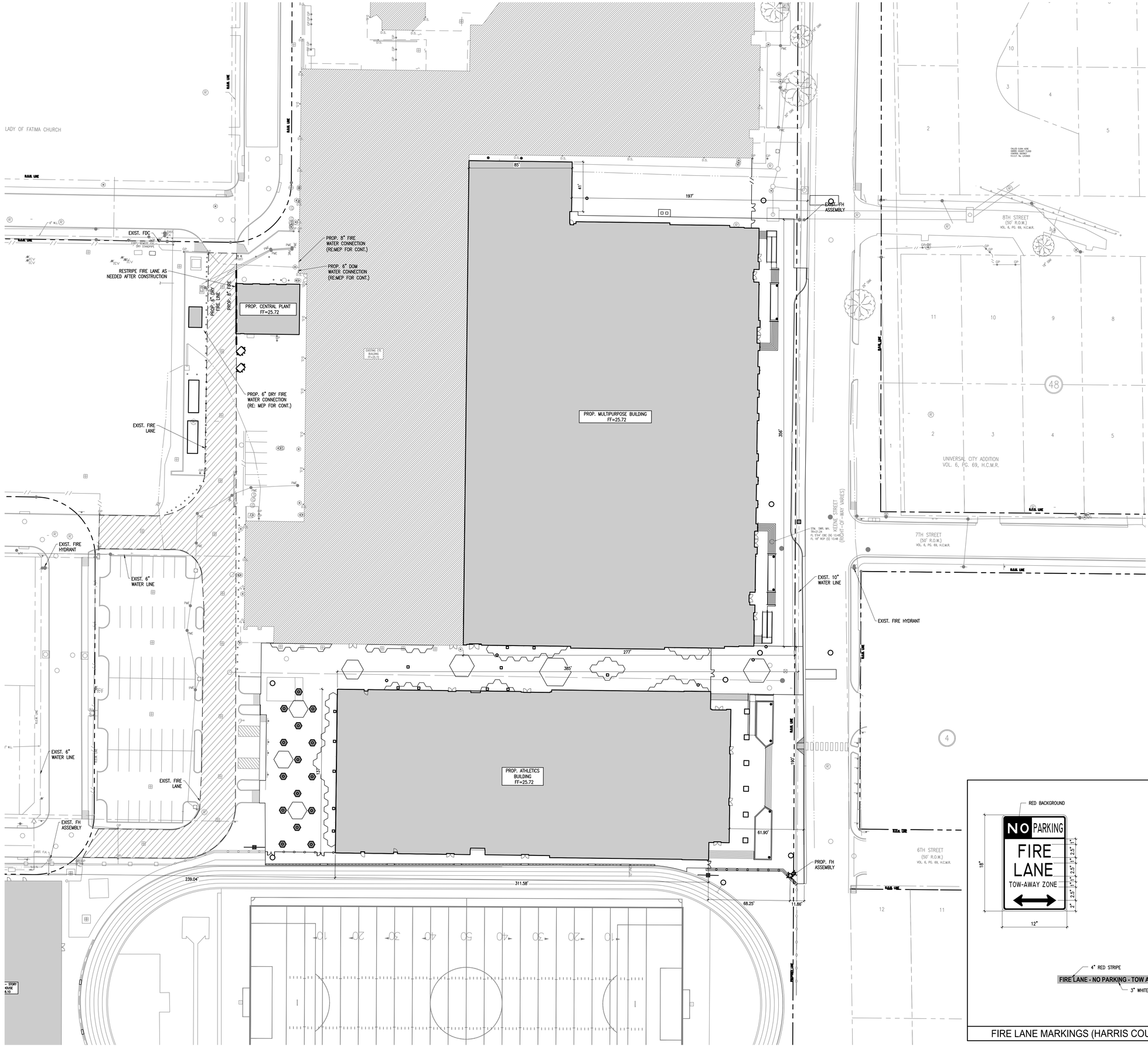
No.	Description	Date
3	ADDENDUM 5	01/08/2026

CHECKED BY: RKR

DRAWN BY: JW

DIMENSIONAL CONTROL PLAN

C 102



RED BACKGROUND

NOTES:

1. FIRE LANES/FIRE APPARATUS ACCESS ROADS SHALL BE MARKED ON THE CURBS OR PAVEMENT WITH A RED STRIPE 4" IN HEIGHT AND STENCILED EVERY 50' WITH THE WORDS "FIRE LANE – NO PARKING – TOW AWAY ZONE" IN 3" WHITE LETTERS.
2. AT THE BEGINNING AND END OF THE FIRE LANE, THE SIGN SHALL HAVE A SINGLE HEADED ARROW POINTING IN THE DIRECTION THE REGULATION IS IN EFFECT. THE INTERMEDIATE SIGNS SHALL HAVE DOUBLE HEADED ARROWS POINTING IN BOTH DIRECTIONS.
3. THE MAXIMUM SPACING OF THE SIGNS SHALL BE 75', CONTINGENT UPON TRAFFIC ENGINEERING'S REVIEW AND APPROVAL.
4. THE SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOR MORE THAN 45° WITH THE CURB OR LINE OF TRAFFIC FLOW.
5. THE CLEARANCE TO THE BOTTOM OF THE SIGN SHALL BE 7 FEET. THERE SHALL BE NO OTHER SIGNS ATTACHED TO THE SIGN OR THE SIGN POLE.
6. THE SIGN PLATE SHALL BE A MINIMUM OF 12" X 18" WITH A THICKNESS OF 0.80".

4" RED STRIPE

FIRE LANE - NO PARKING - TOW AWAY ZONE

3" WHITE LETTERS

FIRE LANE MARKINGS (HARRIS COUNTY)

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DRAWN BY: JW

FIRE APPARATUS PLAN

3

C 103

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NORTH

15 30
30 0 60

NOTES TO SHEET

1. CONTRACTOR SHALL TAKE EXTREME CAUTION TO PROTECT EXISTING GRASS PRACTICE FIELD AND REPAIR ANY DAMAGE TO PRE-EXISTING CONDITIONS OR BETTER

3

LADY OF FATIMA CHURCH

RAIL LINE

CONNECT TO EXIST. 6" WATER
1-90° BEND
1-6" GV W/BOX
1-6" 90° ELBOW
1-6" 45° ELBOW
2-8" 45° ELBOW
CONNECT PROP. 6" DOM. WATER LINE TO EXISTING 6" DRY FIRE LINE
PROP. 8" FIRE WATER CONNECTION (RE:MEP FOR CONT.)
2-45° ELBOW
PROP. 6" DOM WATER CONNECTION (RE:MEP FOR CONT.)
PROP. 6" RPZ BACKFLOW PREVENTOR
PROP. 6"x6" TEE
PROP. GATE VALVE W/BOX
1-6"X6" TEE
1-1" GV W/BOX
1-6" GV W/BOX
CONNECT TO EXIST. 6" DRY FIRE LINE
1-6" 90° ELBOW
PROP. 6" (FIRE) WATER LINE
PROP. FIRE PUMP HOUSE (RE:MEP)
PROP. 8" FIRE WATER RE: MEP FOR CONT.
!!!!!CAUTION!!!!! EXIST. GAS LINE RE:MEP
PROP. 6" 90° ELBOW
PROP. 6" (FIRE) WATER CONNECTION (RE: MEP FOR CONT.)
PROP. STORAGE TANKS (RE:MEP)
PROP. 6" DRY FIRE WATER CONNECTION (RE: MEP FOR CONT.)
PROP. CENTRAL PLANT FF=25.72
6" SAN FL=18.00 (RE:MEP FOR CONT.)
50FL~16" STEEL CASING AROUND EXIST. 8" SAN. SWR RE: 10/ C 602
2-6" 45° ELBOW
1-6" 90° ELBOW
PROP. 6" DRY FIRE LINE
PROP. 8" FIRE LINE
EXISTING OIL BUILDING FF=25.72

PROP. MULTIPURPOSE BUILDING FF=25.72

30" STM. & 8" SAN. X-ING
FL 30" RCB=14.78
FL 8" PVC=12.25
56'~8" SAN @ 0.50%
PROP. SAN. MH. TR=22.60
FL 8" SAN. (SW)=16.25
FL 8" SAN. (E)=12.30
FL 4" SAN. (SE)=15.85
PROP. SAN CO
148'~6" SAN @ 1.00%
6" SAN FL=18.06 (RE:MEP FOR CONT.)
4" SAN FL=18.97 (RE: MEP FOR CONT.)
4" SAN. & 24" STM. X-ING FL 24" HDPE=17.68 FL 4" PVC=16.50
96'~4" SAN @ 2.00%
4" SAN FL=18.39 (RE: MEP FOR CONT.)
10" WATER & 8" SAN. X-ING FL 8" PVC=12.12 FL 10" WTR = 15.00± (NFV)
PROP. SAN. MH.-7 TR=MATCH EXIST. TP EX. FL 12" SAN. (N&S)=10.00± PROP. FL 8" SAN. (W)=12.00
8TH STREET (50' R.O.W.) VOL. 6, PG. 69, H.C.M.R.
UNIVERSAL CITY ADDITION VOL. 6, PG. 69, H.C.M.R.
7TH STREET (50' R.O.W.) VOL. 6, PG. 69, H.C.M.R.
6TH STREET (50' R.O.W.) VOL. 6, PG. 69, H.C.M.R.
KENT STREET (WIDTH VARIES)

ADJUST EXIST. MH RIM EXIST TR=21.44 PROP TR=21.50
4" SAN FL=18.39 (RE: MEP FOR CONT.)
PROP. SAN. MH.-4 TR= 22.35 FL 4" SAN. (W)=17.60 FL 6" SAN. (SW)=14.00 FL 8" SAN. (E)=10.30 FL 4" SAN. (NE)=16.60
82'~4" SAN @ 2.00%
5'~ 4" PVC @ 2.00%
4" SAN FL=17.72 (RE:MEP FOR CONT.)
4" SAN FL=18.53 (RE:MEP FOR CONT.)
FL=14.50
188'~ 4" SAN @ 2.00%
60'~ 8" PVC @ 0.50%
PROP. SAN. MH. W/DROP PIPE TR= MATCH EXIST. TP FL 12" SAN. (N&S)=8.50 FL 8" SAN. (E)=10.00
18" SAN & 8" SAN X-ING FL 18" PVC=12.00 FL 8" PVC=10.20
5'X4' STM & 8" SAN X-ING FL 5'X4' RCB= 13.63 FL 8" PVC=10.25
PROP. SAN MH-2 TR=22.50 FL EXIST. 12" CLAY (E)=11.90 (CONTRACTOR TO VERIFY) FL 12" PVC (SW)=11.90
60'~ 8" SAN. @ MIN. 0.34%
PROP. SAN MH-1 TR=25.540 FL 12" PVC (NE)=12.12 FL. EXIST. 12" PVC (SW)=12.12 (CONTRACTOR TO VERIFY)
60'~ 8" SAN @ MIN. 1.00%
FL=19.00
6" SAN FL=19.14 (RE:MEP FOR CONT.)
50'~ 8" SAN @ MIN. 0.50%
FL=18.75
160'~ 10" SAN @ MIN. 0.40%
EXIST. 18" SAN. (PER AS BUILTS)
6" SAN FL=18.55 (RE:MEP FOR CONT.)
FL=18.10
6" SAN FL=20.14 (RE:MEP FOR CONT.)
6" SAN FL=20.14 (RE:MEP FOR CONT.)
36'~ 6" PVC @ 1.00%
20'~ 10" PVC @ MIN. 0.40%
FL=14.10
PROP. SAN. MH.-3 TR= 23.02 EX. FL 15" SAN. (E&W)=12.00 FL 10" SAN.=18.05
PROP. ATHLETICS BUILDING FF=25.72

5' GAS LINE R.O.W. VOL. 1043, PG. 540, H.C.D.R.
5' GAS LINE R.O.W. VOL. 3913, PG. 304, H.C.D.R.

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CHECKED BY: RKR
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UTILITY PLAN

C 201

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NORTH

15 30
30 0 60

RECONNECT TO EXIST. ROOF DRAINS
(CONTRACTOR TO FIELD VERIFY DRAIN SIZES)

PROP. INLINE DRAIN
TR=23.30
12" HDPE
FL=21.00

PROP. INLINE DRAIN
TR=23.10
8" HDPE FL=20.70

PROP. 12" HDPE

CONNECT TO
EXIST. 12" HDPE
FL=20.00

40'~ 24"
HDPE @ 0.25%
FL=19.90
FL=17.80

158'~24" STM @ 0.25%

12" STM.
FL=20.80
(RE:MEP FOR CONT.)

12" STM.
FL=20.22
(RE:MEP FOR CONT.)

10" STM.
FL=20.89
(RE:MEP FOR CONT.)

8" STM.
FL=18.06
(RE:MEP FOR CONT.)

REPLACE EXIST. STM.
MANHOLE COVER WITH GRATE

EXIST. STM. MH.
TR=22.60
FL EXIST. 5'X4' RCB (S&E)=16.10
FL EXIST. 30 RCP (N)=16.50
FL 30" HDPE (W)=17.70

8'~10" HDPE
CONNECT TO EXIST. 5'X4' BOX CULVERT
FL=14.00

10" STM.
FL=17.89
(RE:MEP FOR CONT.)

PROP. CENTRAL PLANT
FF=25.72

PROP. MULTIPURPOSE BUILDING
FF=25.72

PROP. TYPE C MH ON
TOP OF EXIST 5'x4' RCB
RE: 9 / C 603
TR=21.25
EXIST. 5'X4' RCB
FL=13.45
12" PVC FL=18.00

BOLT EXIST. MANHOLE COVER WITH
INFLOW PREVENTOR & BURY

AL-1
TG=20.00
FL=MATCH
EXIST.

CONNECT TO
EXIST. STM. SWR.
FL (S)=15.00

ADJUST EXIST. STM MH
EXIST. TR=25.50
PROP. TR=25.26

5'~12" HDPE
CONNECT TO EXIST.
BOX CULVERT
FL=15.50

10" STM.
FL=20.89
(RE:MEP FOR CONT.)

6'~ 18" HDPE
CONNECT TO EXIST. 5'X4'
BOX CULVERT
FL=15.00

10" STM.
FL=20.89
(RE:MEP FOR CONT.)

6'~ 12" HDPE
CONNECT TO EXIST. 5'X4'
BOX CULVERT
FL=15.00

10'~10" HDPE
CONNECT TO EXIST. 5'X4' BOX CULVERT
FL=14.00

10" STM
FL= 17.80
(RE:MEP FOR CONT.)

8" STM.
FL=18.06
(RE:MEP FOR CONT.)

4" PVC

EXIST. STM MH
TR=22.23
FL EXIST. 2'x4' RCB (N&W)=13.63
FL 30" HDPE (S)=15.88

20'~30" HDPE @ 0.25%

EXIST. STM. MH
TR=22.30
FL 18" PVC (SE)=17.60
FL 12" HDPE (W)=18.00
FL 30" HDPE (N)=15.94

18'~ 24" HDPE @ 0.25%
FL=18.90

7'~6" HDPE @ 1.00%
FL=19.10

FL=19.25

70'~6" HDPE @ 1.00%

48'~18" HDPE @ 0.50%

50'~6" HDPE @ 1.00%

CONNECT TO EXIST. BOX CULVERT
FL=15.00

42'~12" HDPE
@ 0.50%

PROP. STM MH-2
TR=25.20
24" HDPE (N) FL=15.05
18" HDPE (E) FL=18.60
12" HDPE (S) FL=19.25

FL=19.45

5' MIN.

4" PVC

FL=19.95

4" PVC

10" STM.
FL=20.72
(RE:MEP FOR CONT.)

AL-3
TG=25.34
FL=20.00

6" STM.
FL=20.47
(RE:MEP FOR CONT.)

AL-2
TG=25.34
FL=20.00

40'~18" HDPE @ 0.50%

4" PVC

FL=18.20

8" STM.
FL=18.47
(RE:MEP FOR CONT.)

6" STM.
FL=18.64
(RE:MEP FOR CONT.)

FL=17.70

15'~ 18"
HDPE @ 0.25%

FL=17.75

30'~ 18"
HDPE @ 0.25%

6" STM.
FL=18.64
(RE:MEP FOR CONT.)

FL=17.85

30'~ 18"
HDPE @ 0.25%

6" STM.
FL=18.64
(RE:MEP FOR CONT.)

6" STM.
FL=18.64
(RE:MEP FOR CONT.)

FL=17.95

95'~ 18"
HDPE @ 0.25%

PROP. ATHLETICS
BUILDING
FF=25.72

4" PVC

110'~12" STM @ 0.50%

CONNECT TO EXIST. 12" PVC
FL=20.10
(CONTRACTOR TO FIELD VERIFY)

8" STM.
FL=18.47
(RE:MEP FOR CONT.)

45'~ 12" HDPE
@ 0.25%

PROP. STM MH-1
TR=24.80
FL 12" HDPE (E&N)=20.00

6" STM.
FL=21.06
(RE:MEP FOR CONT.)

FL=21.00

56'~ 6" PVC @ 1.00%

FL=21.60

56'~ 6" PVC @ 1.00%

FL=22.25

56'~ 6" PVC @ 1.00%

FL=22.85

40'~ 12"
HDPE @ 0.50%
FL=20.40

44'~ 12" HDPE @ 0.50%
FL=20.85

12'~ 6" PVC @ 1.00%

FL=18.20

PROP. SLOTTED DRAIN
(ACO SYSTEM 3000
OR APPROVED EQUAL)

25'~ 12" PVC @ 0.25% MIN.

LADY OF FATIMA CHURCH

RAIL LINE

8TH STREET
(50' R.O.W.)
VOL. 6, PG. 69, H.C.M.R.

UNIVERSAL CITY ADDITION
VOL. 6, PG. 69, H.C.M.R.

7TH STREET
(50' R.O.W.)
VOL. 6, PG. 69, H.C.M.R.

6TH STREET
(50' R.O.W.)
VOL. 6, PG. 69, H.C.M.R.

EXISTING ISC BUILDING
FF=25.72

5/8" I.R. FND W/CAP
"WEST BELT SURVEYING INC."

5' GAS LINE R.O.W.
VOL. 1040, PG. 340, H.C.D.R.

5' GAS LINE R.O.W.
VOL. 3913, PG. 504, H.C.D.R.

1 STORY
ADJSE
6.10

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F-18326

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GALENA PARK ISD	
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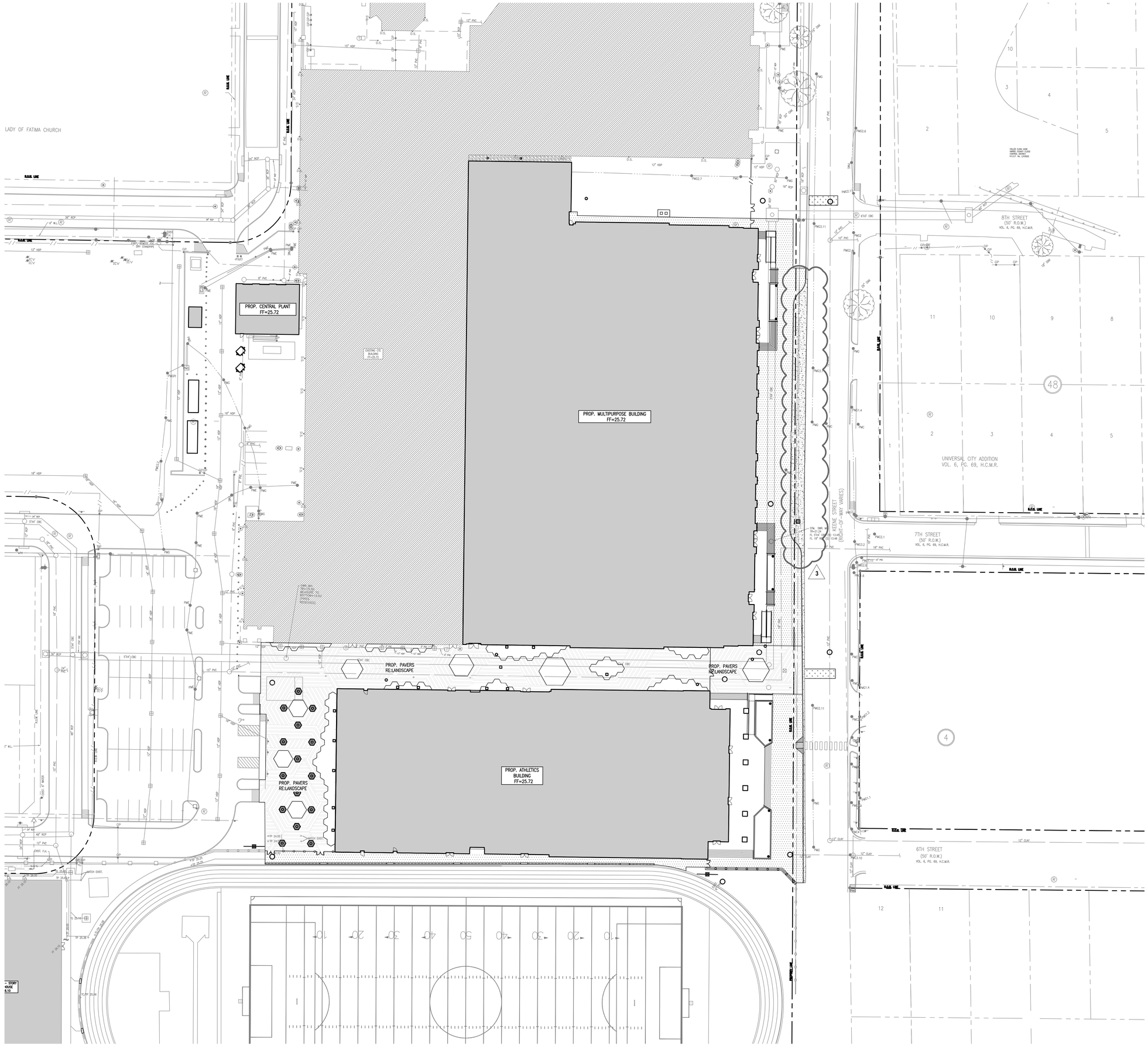
CHECKED BY: RKR
DRAWN BY: JW

DRAINAGE PLAN

3

C 301



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STATE OF TEXAS

01/08/2026

ENGINEERS
F-16526

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CHECKED BY:RKR

DRAWN BY: JW

PAVING PLAN

C 402

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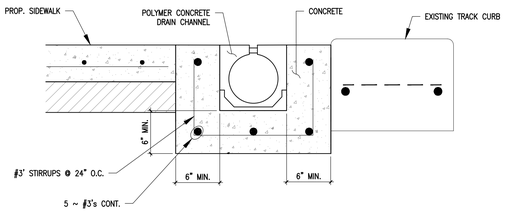
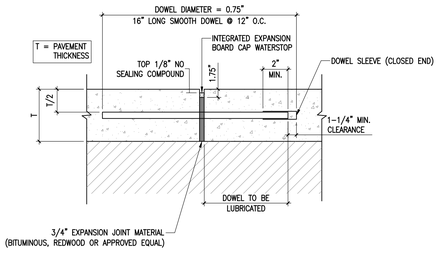


DETAILS NOTES:

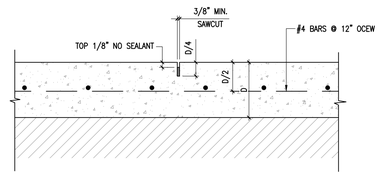
1. THE SURFACE DRAINAGE SYSTEM SHALL BE SYSTEM 3000 AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC., CHARDON, OH., OR APPROVED EQUAL.
2. CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE.
3. THE SYSTEM SHALL BE 4.25 INCHES (108MM) NOMINAL INSIDE WIDTH WITH A 5.7 IN. (145MM) OVERALL WIDTH. THE CHANNEL SHALL BE 5.7 IN.(145MM) IN OVERALL DEPTH. THE MINIMUM SLOT DIMENSION SHALL BE 0.625 IN. (15MM). ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.
4. POLYMER CONCRETE SHALL HAVE MATERIAL PROPERTIES OF: COMPRESSIVE STRENGTH RANGE BETWEEN 14,000–14,500 PSI; FLEXURAL STRENGTH BETWEEN 3600–4500 PSI; TENSILE STRENGTH OF 1500 PSI. THE MATERIAL WATER ABSORPTION RATE SHALL NOT EXCEED 0.1% BY WEIGHT AND SHALL BE RESISTANT TO PROLONGED SALT EXPOSURE, AND REPETITIVE FROST CYCLES.
5. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. REFER TO PLANS FOR TRENCH AND CATCH BASIN LOCATION.

12 ACO 3000 SLOTTED DRAIN



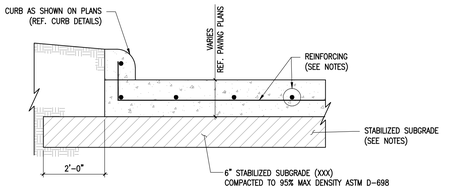
NOTE:
1. DOWELS SHALL BE SUPPORTED BY AN APPROVED DEVICE.

11 CONCRETE SIDEWALK AT BUILDING



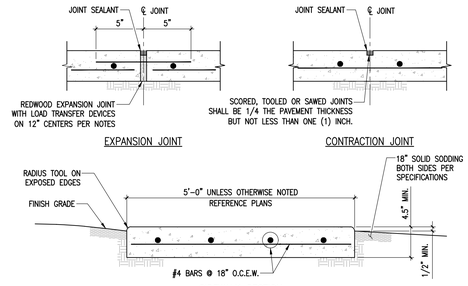
NOTE:
1. SAWCUTS 1/4" WIDE ARE TO BE SEALED WITH SILICONE JOINT SEALING COMPOUND UP TO 1/8" BELOW TOP OF PAVEMENT. SEE SPECIFICATIONS FOR REQUIRED JOINT SEALANT.
2. COMPLETE SAWCUT JOINTS WITHIN 12 HOURS OF CONCRETE PLACEMENT.

10 MOUNTABLE CURB



NOTES:
1. AREAS TO RECEIVE PAVING SHALL BE STRIPPED OF THE ORGANIC TOPSOIL TO A DEPTH OF AT LEAST 6-INCHES AND TO A DEPTH AS NECESSARY TO OBTAIN THE DESIRED FINISH GRADE. AFTER REMOVAL OF THE TOPSOIL THE EXPOSED SUBGRADE SHALL BE PROOFROLLED WITH A 15-TON ROLLER TO DETECT ANY WET, SOFT, OR UNSTABLE SOILS. WET, SOFT OR UNSTABLE SOILS SHALL BE TREATED WITH SUITABLE DRYING OR STABILIZING AGENTS OR REMOVED AND REPLACE WITH PROPERLY COMPACTED FILL AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
2. IF IT IS NECESSARY TO PLACE FILL IN ORDER TO BRING THE PAVEMENT SUBGRADE TO THE REQUIRED ELEVATION, SUITABLE EARTH FILL OR SELECT FILL SHALL BE UTILIZED. SUITABLE EARTH FILL AND SELECT FILL SHALL BE FREE OF ORGANICS, DELETERIOUS SUBSTANCES AND BE A CLAYEY SAND OR INACTIVE LEAN CLAY WITH A MAXIMUM LIQUID LIMIT OF 35 AND PLASTICITY INDEX RANGE OF 8 TO 20. FILL MATERIAL 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. REFERENCE PAVING PLANS FOR SUBGRADE STABILIZATION REQUIREMENTS.
4. CONCRETE PAVEMENT SHALL CONSIST OF NOT LESS THAN 5.5 SACKS OF CONCRETE PER CUBIC YARD AND OBTAIN A 28-DAY COMPRESSIVE STRENGTH OF AT LEAST 3,500 PSI. REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. REINFORCING SHALL CONSIST OF THE THE FOLLOWING
   - 5-INCH THICK PAVING – #4 BARS AT 18" O.C.E.W.
   - 6-INCH THICK PAVING – #4 BARS AT 12" O.C.E.W. OR #5 BARS AT 18" O.C.E.W.
   - 7-INCH AND 8-INCH THICK PAVING – #5 BARS AT 18" O.C.E.W.

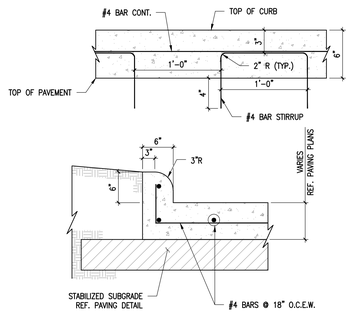
9 ACCESSIBLE CURB RAMP



SIDEWALK SECTION

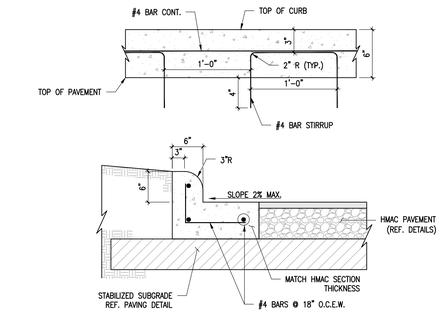
NOTES:
1. SLOPE TRANSVERSE SURFACE 2% (1:50) IN DIRECTION OF GENERAL SITE AREA DRAINAGE.
2. RUNNING SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT EXCEED 5% (1:20).
3. FLOAT EDGES 1/4" MAXIMUM AT CONTROL JOINTS.
4. USE REDWOOD BOARD EXPANSION JOINT w/ #4 SMOOTH BAR w/ LOAD KEY (10" LONG).
5. REDWOOD BOARD EXPANSION JOINTS ON 15 FOOT CENTERS MAXIMUM.
6. CONTROL JOINT SPACING NOT TO EXCEED FIVE (5) FEET. SCORED, TOOLED OR SAWN JOINTS SHALL BE 1/4 THE PAVEMENT THICKNESS BUT NOT LESS THAN ONE (1) INCH.
7. SIDEWALK JOINTS SHALL ALIGN WITH PAVING JOINTS WHEN SIDEWALK IS ADJACENT TO PAVING.

8 EXPANSION JOINT (X)



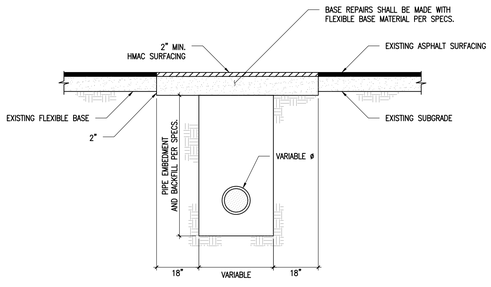
NOTES:
1. FOR NEW PAVEMENT STIRRUPS SHALL BE SET IN FRESH CONCRETE AND SECURED.
2. FOR NEW CURB ON EXISTING PAVEMENT STIRRUPS SHALL BE DRILLED AND EPOXIED INTO THE EXISTING PAVEMENT.
3. MIN COVER ON ALL REINFORCING STEEL SHALL BE 2".
4. PLACE 3/4" INCH PREFORMED EXPANSION JOINTS THROUGH CURB AND GUTTERS 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 1/4" TOOLED JOINTS THROUGH CURB AND GUTTERS AT LOCATIONS OF SAWED JOINTS IN PAVEMENT.

7 SAWCUT JOINT (S)



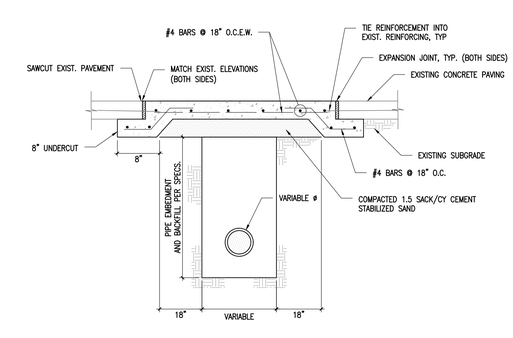
NOTES:
1. FOR NEW PAVEMENT STIRRUPS SHALL BE SET IN FRESH CONCRETE AND SECURED.
2. FOR NEW CURB ON EXISTING PAVEMENT STIRRUPS SHALL BE DRILLED AND EPOXIED INTO THE EXISTING PAVEMENT.
3. MIN COVER ON ALL REINFORCING STEEL SHALL BE 2".
4. PLACE 3/4" INCH PREFORMED EXPANSION JOINTS THROUGH CURB AND GUTTERS 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 1/4" TOOLED JOINTS THROUGH CURB AND GUTTERS AT LOCATIONS OF SAWED JOINTS IN PAVEMENT.

6 CONCRETE PAVEMENT



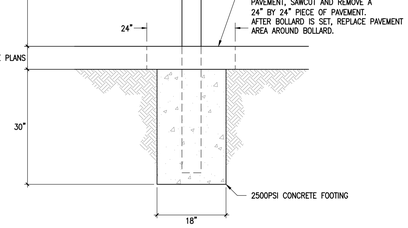
NOTES:
1. IF REINFORCED CONCRETE IS OVERLAYED WITH ASPHALT, REPLACE WITH 2" MIN. HMAC SURFACING.
2. CENTER REINFORCING IN SLAB THICKNESS.

5 CONCRETE SIDEWALK

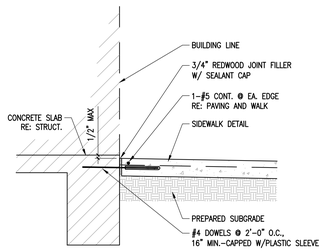


NOTES:
1. CENTER REINFORCING IN SLAB THICKNESS.

4 CONCRETE CURB

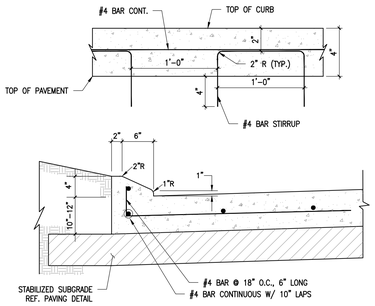


3 CONCRETE CURB AND GUTTER



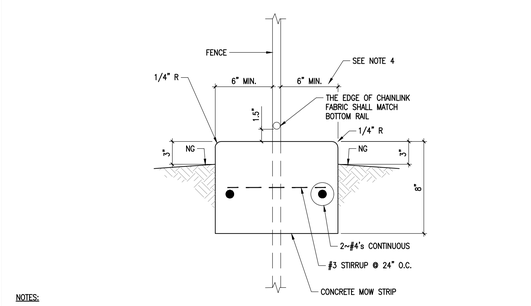
NOTE:
APPLICABLE AT DOOR CONDITIONS ONLY.

2 BOLLARD DETAIL



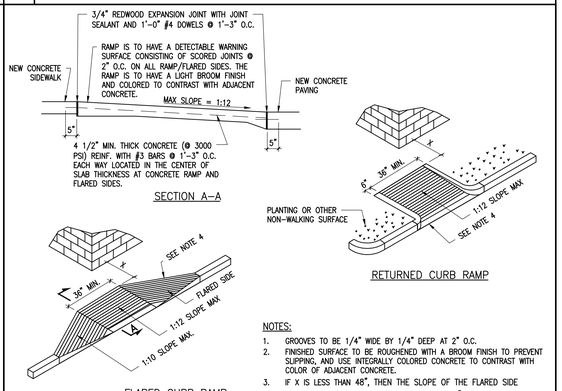
NOTES:
1. WHEN THE CURB IS NOT PLACED BY MACHINE, THE CURB SHALL BE PLACED BY HAND OF THE SAME DIMENSIONS SHOWN (UNLESS OTHERWISE APPROVED BY THE ENGINEER), BY FLOATING, STEEL TROWELING AND FINISHING BY HAND BRUSHING.

1 REPAIR OF CONCRETE PAVEMENT



NOTES:
1. X-JT @ 60' O/C.
2. CONTROL JOINT @ 10' O/C.
3. POLE DIAMETER VARIES.
4. FENCE POST FACE SHALL BE CONSISTANLY 6" OFF FACE OF MOW STRIP

13 MOW STRIP AT NEW FENCE



NOTES:
1. GROOVES TO BE 1/4" WIDE BY 1/4" DEEP AT 2" O.C.
2. FINISHED SURFACE TO BE ROUGHENED WITH A BROOM FINISH TO PREVENT SLIPPING, AND USE INTEGRALLY COLORED CONCRETE TO CONTRAST WITH COLOR OF ADJACENT CONCRETE.
3. IF X IS LESS THAN 48", THEN THE SLOPE OF THE FLARED SIDE SHALL NOT EXCEED 1:12 X MIN. SHALL BE 42".
4. RAMP IS TO BE ISOLATED ON ALL SIDES WITH EXPANSION JOINTS.

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

ISSUE FOR PROPOSAL

1000 Keene St.
Galena Park, TX 77547

Galena Park ISD

RAJEEB K. RAJBHANDARI
116968
LICENSED
PROFESSIONAL ENGINEER
01/08/2026

ENGINEERS F-18326

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
DECEMBER 05, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/18/2025
3	ADDENDUM 5	01/08/2026

CHECKED BY:RKR

DRAWN BY: JW

DETAILS

3

C 601

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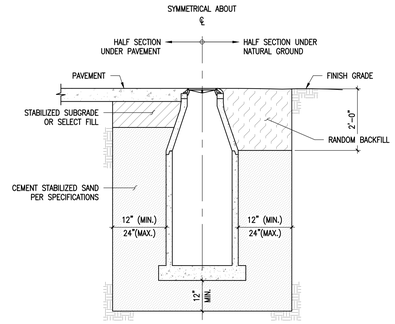
Thursday, January 8, 2026 10:28:49 AM

16 NOT USED

15 NOT USED

14 NOT USED

13 NOT USED



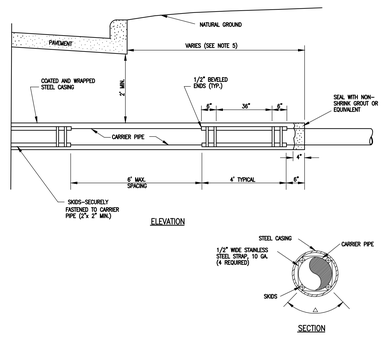
NOTES:

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.

12 NOT USED

11 STEEL CASING

1. SPACING BETWEEN TIMBERS:
   △=90° FOR 12" AND UNDER,
   △=60° FOR PIPE OVER 12".
2. CASING SIZE AND THICKNESS SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE ENTITY HAVING JURISDICTION AND/OR OTHER PERMITS, AS REQUIRED.
3. MAINTAIN 1/2" MINIMUM CLEARANCE BETWEEN THE OUTSIDE DIAMETER OF CARRIER PIPE AND CASING AT ALL LOCATIONS.
4. DIMENSIONS ARE APPROXIMATE ONLY. CONTRACTOR SHALL INSTALL ADEQUATELY SIZED CASING TO ACCOMMODATE THE CARRIER PIPE.
5. FOR NON-CURBED STREETS THE MINIMUM REQUIRED LENGTH WILL BE ESTABLISHED BY THE ENGINEER.
6. CONTRACTOR SHALL CENTER 1 FULL RESTRAINED JOINT SECTION (MIN 18 FT) OF WATER LINE AT PROPOSED SANITARY SEWER CROSSING. CONTRACTOR SHALL MAINTAIN MIN. 2 FT' VERTICAL CLEARANCE. IF LESS THAN 2 FT CAN NOT BE ACHIEVED, THEN THE WATER LINE IS TO BE ENCASED IN STEEL. WATER LINES SHALL BE RESTRAINED JOINT PIPE IN CONTINUOUS STEEL CASING AND SHALL EXTEND A MINIMUM OF 15 FEET BEYOND THE LAST BEND.
7. THE CARRIER PIPELINE SHALL EXTEND A MINIMUM OF 1 FOOT BEYOND THE END OF THE CASING TO ALLOW FLANGED JOINTS TO BE CONSTRUCTED.
8. WATER LINE OR SANITARY SEWER SHALL BE CONSTRUCTED WITH APPROVED RESTRAINED JOINTS IN AN APPROVED CONTINUOUS CASING WITH AT LEAST TWO NOMINAL SIZES LARGER THAN THE CARRIER PIPE. THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE-FOOT INTERVALS WITH SPACERS OR BE FILLED TO THE SPRINGLINE WITH WASHED SAND.
9. CASING PIPE SHALL BE SPECIFIED BY MATERIAL TYPE, INSIDE DIAMETER AND WALL THICKNESS AND MEET THE REQUIREMENTS OF THE CITY'S STANDARD SPECIFICATIONS AND AWWA STANDARDS.

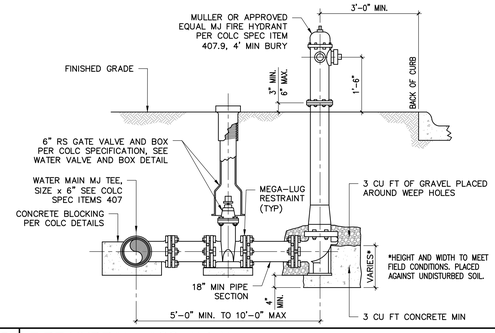


10 NOT USED

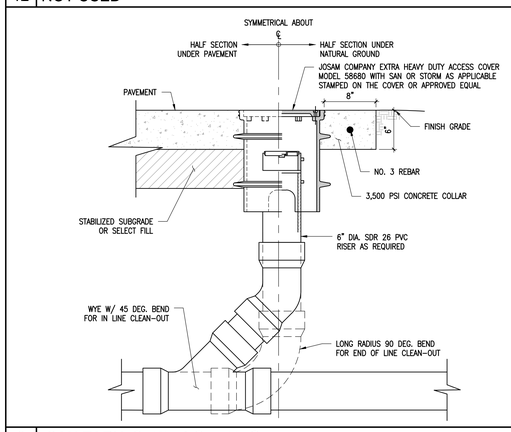
9 SANITARY SEWER STRUCTURE BEDDING AND BACKFILL

NOTES:

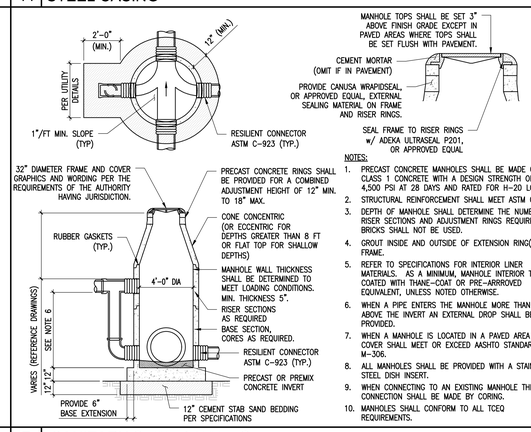
1. OIL SHALL BE PLACED IN HYDRANT AT THE TIME OF INSTALLATION.
2. 4 1/2" NST PUMPER NOZZLE SHALL FACE ROADWAY.
3. VALVE BONNET TO BE ASSEMBLED WITH STAINLESS STEEL BOLTS.
4. IN LOCATIONS OF CUL-DE-SAC'S OMIT TEE AND INSTALL VALVE AND HYDRANT AT END OF LINE.



8 SANITARY SEWER CLEAN OUT



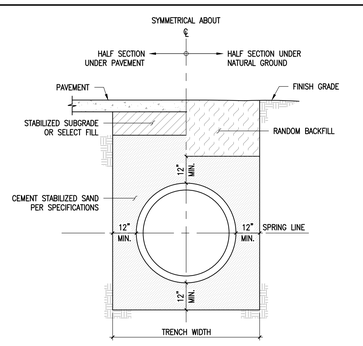
7 SANITARY SEWER MANHOLE



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 FRAME.
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.

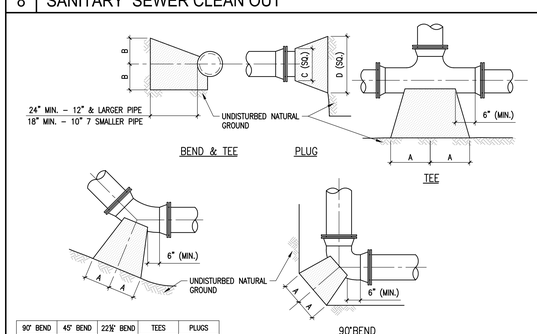
6 SANITARY SEWER BEDDING AND BACKFILL



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.

5 FIRE HYDRANT ASSEMBLY

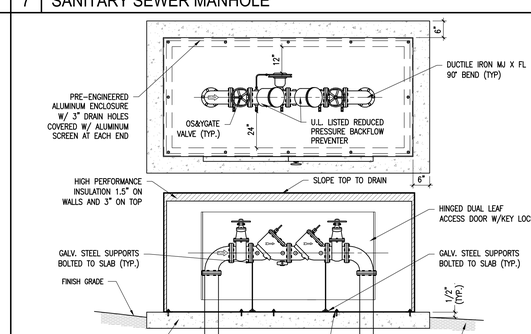


90° BEND		45° BEND		22½° BEND		TEES			PLUGS	
A	B	A	B	A	B	A	B	C	C	D
12"	7"	6"	7"	6"	6"	7"	8"	8"	8"	14"
14"	8"	7"	9"	6"	6"	8"	11"	8"	8"	18"
16"	10"	9"	10"	6"	8"	10"	12"	10"	10"	21"
22"	13"	12"	13"	8"	10"	13"	16"	12"	12"	29"
29"	21"	16"	21"	11"	16"	18"	24"	16"	16"	41"
38"	27"	21"	27"	12"	24"	24"	30"	20"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

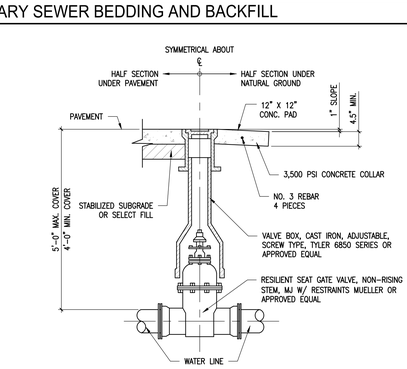
4 THRUST BLOCKING



NOTES:

1. CLASS 1 CONCRETE WITH A DESIGN STRENGTH OF 4,500 PSI AT 28 DAYS. REINFORCEMENT SHALL BE GRADE 60 STEEL CONFORMING TO ASTM A615 ON REQUIRED CENTERS.
2. ALL ABOVE GROUND PIPING SHALL BE DUCTILE IRON.
3. BACKFLOW PREVENTER SHALL BE WATTS LF909 UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

3 ABOVE GROUND RPZ W/ ENCLOSE



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.

2 GATE VALVE

NOTES:

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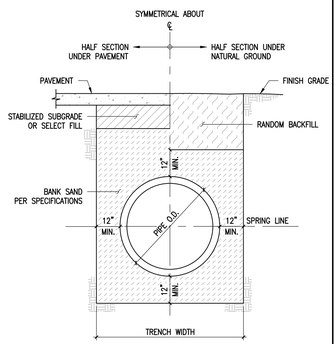

1 WATER LINE BEDDING & BACKFILL

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

RAJEEB K. RAJBHANDARI
116968
LICENSED PROFESSIONAL ENGINEER
01/08/2026
ENGINEERS
F-18326

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
DECEMBER 05, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADDENDUM 5	01/08/2026

CHECKED BY:RKR

DRAWN BY: JW

DETAILS

3

C 602

B:\24\240539 - GPHS MP\FOC\DIG\Building Addition Phase 3B\DwgsC 602 DETAILS.dwg Last Saved: AGLUZMAN
Thursday, January 8, 2026 10:27:21 AM

15 | NOT USED

12 | NOT USED

11 | BOX CULVERT

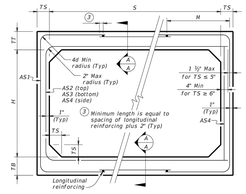
9 | MANHOLE ON EXIST. BOX CULVERT

BOX DATA

SECTION DIMENSIONS S (ft.)	H (ft.)	TT (in.)	TB (in.)	TS (in.)	Fill Height (ft.)	M (Min) (in.)	REINFORCING (sq. in. / ft.) AS1	AS2	AS3	AS4	AS5	AS7	AS8	① Lift Weight (tons)
5	2	8	7	6	< 2	-	0.19	0.27	0.18	0.14	0.19	0.19	0.17	6.0
5	2	6	6	6	2 < 3	44	0.22	0.20	0.16	0.14	-	-	-	5.1
5	2	6	6	6	3 - 5	44	0.16	0.14	0.14	0.14	-	-	-	5.1
5	2	6	6	6	10	36	0.15	0.14	0.14	0.14	-	-	-	5.1
5	2	6	6	6	15	36	0.20	0.18	0.18	0.14	-	-	-	5.1
5	2	6	6	6	20	36	0.26	0.23	0.24	0.14	-	-	-	5.1
5	2	6	6	6	25	36	0.33	0.29	0.29	0.14	-	-	-	5.1
5	2	6	6	6	30	36	0.39	0.34	0.35	0.14	-	-	-	5.1
5	3	8	7	6	< 2	-	0.19	0.31	0.21	0.14	0.19	0.19	0.17	6.6
5	3	6	6	6	2 < 3	45	0.18	0.24	0.19	0.14	-	-	-	5.7
5	3	6	6	6	3 - 5	36	0.14	0.17	0.16	0.14	-	-	-	5.7
5	3	6	6	6	10	36	0.14	0.16	0.17	0.14	-	-	-	5.7
5	3	6	6	6	15	35	0.16	0.21	0.22	0.14	-	-	-	5.7
5	3	6	6	6	20	35	0.21	0.27	0.28	0.14	-	-	-	5.7
5	3	6	6	6	25	35	0.26	0.34	0.34	0.14	-	-	-	5.7
5	3	6	6	6	30	35	0.31	0.41	0.41	0.14	-	-	-	5.7
5	4	8	7	6	< 2	-	0.19	0.33	0.24	0.14	0.19	0.19	0.17	7.2
5	4	6	6	6	2 < 3	45	0.16	0.27	0.22	0.14	-	-	-	6.3
5	4	6	6	6	3 - 5	45	0.14	0.19	0.18	0.14	-	-	-	6.3
5	4	6	6	6	10	36	0.14	0.18	0.18	0.14	-	-	-	6.3
5	4	6	6	6	15	35	0.14	0.23	0.24	0.14	-	-	-	6.3
5	4	6	6	6	20	35	0.17	0.30	0.31	0.14	-	-	-	6.3
5	4	6	6	6	25	35	0.21	0.37	0.38	0.14	-	-	-	6.3
5	4	6	6	6	30	35	0.25	0.44	0.45	0.14	-	-	-	6.3
5	5	8	7	6	< 2	-	0.19	0.35	0.26	0.14	0.19	0.19	0.17	7.8
5	5	6	6	6	2 < 3	45	0.14	0.29	0.24	0.14	-	-	-	6.9
5	5	6	6	6	3 - 5	45	0.14	0.21	0.20	0.14	-	-	-	6.9
5	5	6	6	6	10	45	0.14	0.19	0.20	0.14	-	-	-	6.9
5	5	6	6	6	15	36	0.14	0.24	0.25	0.14	-	-	-	6.9
5	5	6	6	6	20	35	0.15	0.31	0.32	0.14	-	-	-	6.9
5	5	6	6	6	25	35	0.18	0.38	0.39	0.14	-	-	-	6.9
5	5	6	6	6	30	35	0.21	0.46	0.47	0.14	-	-	-	6.9

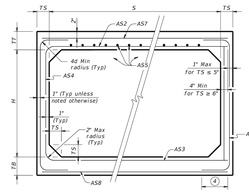
① For box length = 8'-0"

② AS1 thru AS4, AS7 and AS8 are minimum required areas of reinforcement per linear foot of box length. AS5 is minimum required area of reinforcement per linear foot of box width.



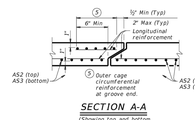
CORNER OPTION "A" CORNER OPTION "B"

FILL HEIGHT 2 FT AND GREATER



CORNER OPTION "A" CORNER OPTION "B"

FILL HEIGHT LESS THAN 2 FT



SECTION A-A
(Showing top and bottom slab joint reinforcement.)

MATERIAL NOTES:
Provide 0.03 sq. in./ft. minimum longitudinal reinforcement at each face in slabs and walls. This minimum requirement may be met by the transverse wires when wire mesh reinforcement is used.
Provide Class H concrete (f'c = 5,000 psi).

GENERAL NOTES:
Designs shown conform to ASTM C1577. Refer to ASTM C1577 for information or details not shown.
See Box Culverts Precast Miscellaneous Details (SCP-MD) standard sheet for details and notes not shown.
In lieu of furnishing the designs shown on this sheet, the contractor may furnish an alternate design if the design is equivalent to the footprint for the dimensions given in the table. Submit shop plans for alternate designs in accordance with Item "Precast Concrete Structural Members (Fabrication)".

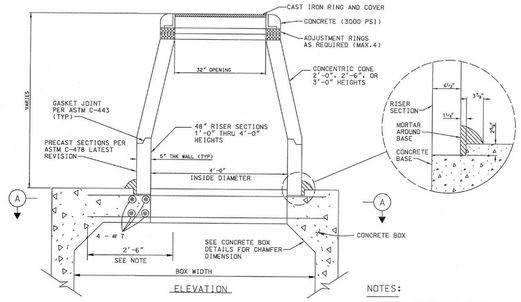
HL93 LOADING

Texas Department of Transportation — Bridge Division Standard

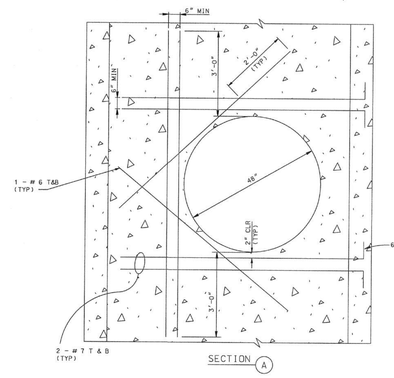
SINGLE BOX CULVERTS PRECAST 5'-0" SPAN

SCP-5

File: CD-SCP05-20.dgn	dn: TxDOT	ck: TxDOT	dw: TxDOT	ck: TxDOT
©TxDOT February 2020	CONT	SECT	JOB	HIGHWAY
REVISIONS	DIST	COUNTY		SHEET NO.



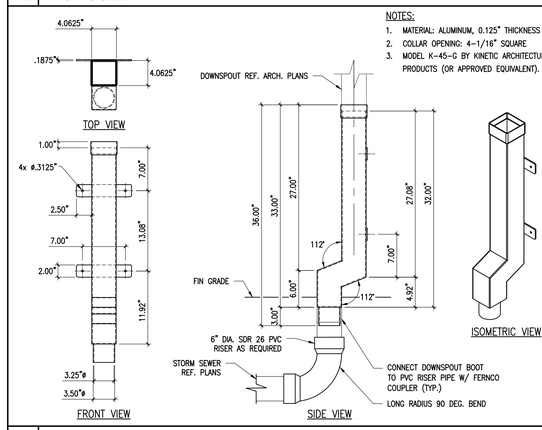
ELEVATION



NOTES:
1. FOR SMALLER BOX SEWER WIDTHS, WHERE IT IS NOT POSSIBLE TO EXTEND REINFORCING STEEL 2'-6" BEYOND THE OPENING, REINFORCING STEEL SHALL BE EXTENDED 3" TO THE EDGE OF THE WALL.
2. INVERTS SHALL BE SPECIFICALLY SIZED FOR CONNECTING PIPES AND SHALL BE U-SHAPED WITH THE MIN. DEPTH EQUAL TO ½ OF THE LARGER PIPE DIAMETER.
3. FOR DEPTHS GREATER THAN 15 FEET AND FOR PIPES OTHER THAN PERPENDICULAR TO MANHOLE WALL, SHOP DRAWINGS WITH MANUFACTURER'S CERTIFICATION SHALL BE SUBMITTED FOR ENGINEER'S APPROVAL.
4. ADDITIONAL REINFORCEMENT IN BOX CULVERT FOR MANHOLE OPENING ONLY IS SHOWN. SEE BOX CULVERT DETAILS FOR STEEL REINFORCEMENT IN BOX CULVERT.

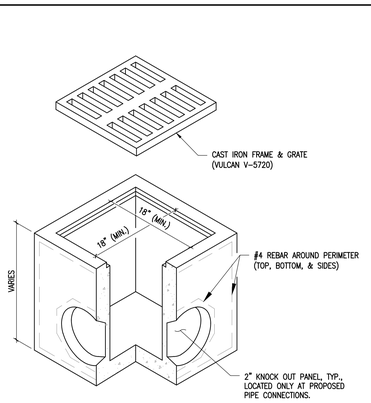
8 | DOWNSPOUT BOOT

NOTES:
1. MATERIAL: ALUMINUM, 0.125" THICKNESS
2. COLLAR OPENING: 4-1/16" SQUARE
3. MODEL K-45-G BY KINETIC ARCHITECTURAL PRODUCTS (OR APPROVED EQUIVALENT).

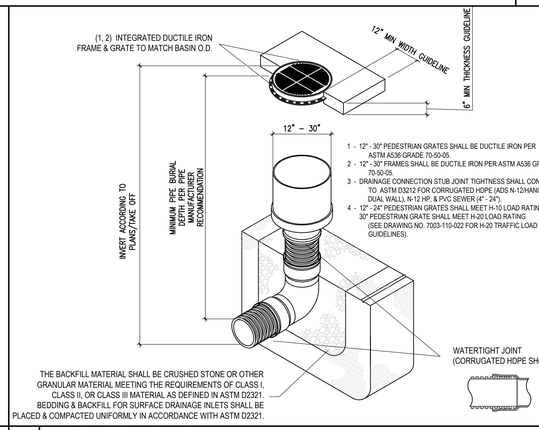


11 | BOX CULVERT

NOTES:
1. WALLS & BOTTOM SHALL BE CONSTRUCTED OF 6" REINFORCED, CLASS "A" (4000 psi) CONCRETE.
2. PRECAST CONCRETE INLET BASINS SHALL BE PROVIDED WITH PRE-FORMED KNOCKOUTS ONLY IN WALLS WHERE PIPE CONNECTIONS ARE TO BE MADE. KNOCKOUTS SHALL BE PIPE O.D. + 4" MAX. AND CIRCULAR SHAPED.
3. IN GRASS AREAS, FOLLOWING FINAL GRADING, THE CONTRACTOR SHALL PLACE SOLID SOD A MINIMUM OF 5 FEET AROUND PERIMETER OF TOP OF INLET.
4. IF THE BASE SECTION IS PRECAST WITH A BOTTOM, A 12" THICK CEMENT STABILIZED SAND BASE SHALL BE REQUIRED BENEATH THE STRUCTURE, EXTENDING 12" PAST THE OUTER FACE.
5. WHEN HDPE PIPE IS USED, PROVIDE 6" CLEARANCE BETWEEN INLET BOTTOM & FLOWLINE OF PIPE. GROUT ENTIRE BOTTOM OF INLET. EXTEND PIPE INTO INLET AT LEAST ONE FULL CORRUGATION. NO JOINT WITHIN 6 FEET OF INLET.
6. INSTALL FILTER FABRIC OVER INLET GRATE TO PREVENT SILTS FROM ENTERING INLET.

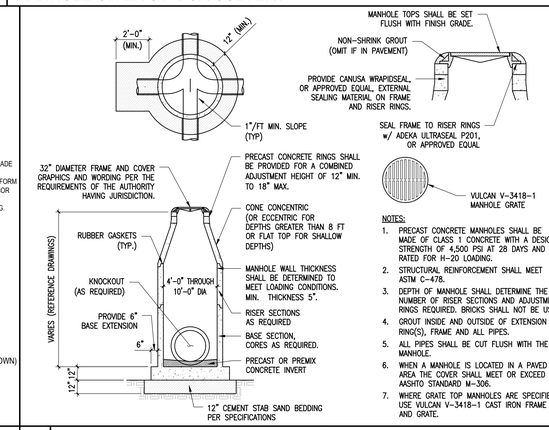


6 | INLET STRUCTURE IN CONCRETE



THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

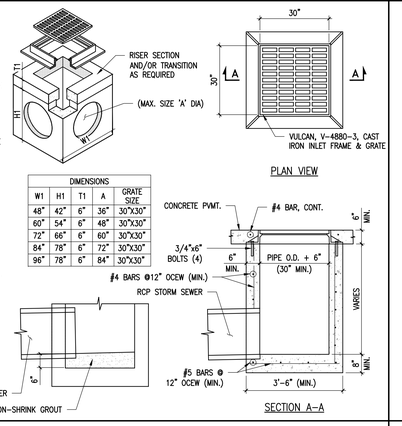
5 | TYPE "C" STORM SEWER MANHOLE



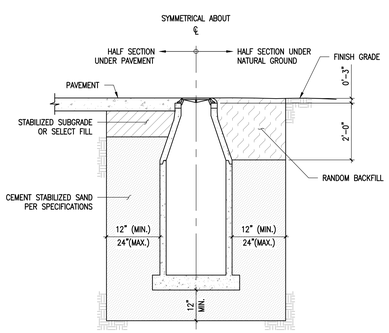
NOTES:
1. PRECAST CONCRETE MANHOLES SHALL BE MADE OF CLASS 1 CONCRETE WITH A DESIGN STRENGTH OF 4,500 PSI AT 28 DAYS AND RATED FOR H-20 LOADING.
2. STRUCTURAL REINFORCEMENT SHALL MEET ASTM C-478.
3. DEPTH OF MANHOLE SHALL DETERMINE THE NUMBER OF RISER SECTIONS AND ADJUSTMENT RINGS REQUIRED. BRICKS SHALL 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.
7. WHERE GRATE TOP MANHOLES ARE SPECIFIED, USE VULCAN V-3418-1 CAST IRON FRAME AND GRATE.

4 | AREA INLET

NOTES:
1. WALLS SHALL BE CONSTRUCTED OF 6" REINFORCED, CLASS "A" (4000 psi) CONCRETE.
2. PRECAST CONCRETE INLET BASINS SHALL BE PROVIDED WITH PRE-FORMED KNOCKOUTS ONLY IN WALLS WHERE PIPE CONNECTIONS ARE TO BE MADE. KNOCKOUTS SHALL BE PIPE O.D. + 4" MAX. AND CIRCULAR SHAPED.
3. IN GRASS AREAS, FOLLOWING FINAL GRADING, THE CONTRACTOR SHALL PLACE SOLID SOD A MINIMUM OF 5 FEET AROUND PERIMETER OF TOP OF INLET.
4. IF THE BASE SECTION IS PRECAST WITH A BOTTOM, A 12" THICK CEMENT STABILIZED SAND BASE SHALL BE REQUIRED BENEATH THE STRUCTURE, EXTENDING 12" PAST THE OUTER FACE.
5. WHEN HDPE PIPE IS USED, PROVIDE 6" CLEARANCE BETWEEN INLET BOTTOM & FLOWLINE OF PIPE. GROUT ENTIRE BOTTOM OF INLET. EXTEND PIPE INTO INLET AT LEAST ONE FULL CORRUGATION. NO JOINT WITHIN 6 FEET OF INLET.
6. INSTALL FILTER FABRIC OVER INLET GRATE TO PREVENT SILTS FROM ENTERING INLET.
7. IF BOTTOM SECTION INSIDE DIM. IS LARGER THAN 30"x30", PROVIDE TRANSITION SECTION TO ACCEPT A 30"x30" FRAME & GRATE.

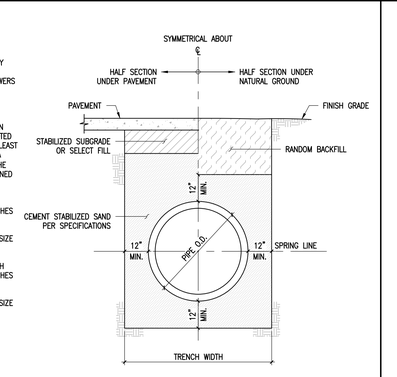


3 | STORM SEWER STRUCTURE BEDDING AND BACKFILL



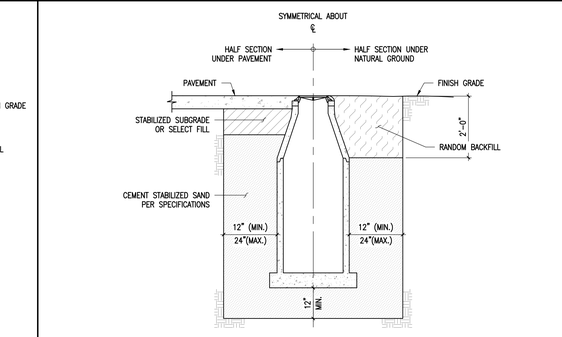
NOTES:
1. THIS DETAIL MAY BE USED ONLY FOR BEDDING AND BACKFILLING OF MANHOLES, INLETS AND OTHER STRUCTURES IN DRY STABLE TRENCH CONDITIONS. WHERE WET SAND CONDITIONS ARE ENCOUNTERED STRUCTURES SHALL BE BACKFILLED PER THE REQUIREMENTS OF THE WET CONDITION BEDDING AND BACKFILLING DETAIL.
2. ALL BACKFILL 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.

2 | STORM SEWER BEDDING AND BACKFILL



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.

1 | SANITARY SEWER STRUCTURE BEDDING AND BACKFILL



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.

NOT USED

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Galena Park ISD

RAJEEB K. RAJBHANDARI 116968 LICENSED PROFESSIONAL ENGINEER
01/08/2026
ENGINEERS F-18326

CLIENT: GALENA PARK ISD
DATE: DECEMBER 05, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

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3	ADDENDUM 5	01/08/2026

CHECKED BY: RKR
DRAWN BY: JW

DETAILS

3

C 603

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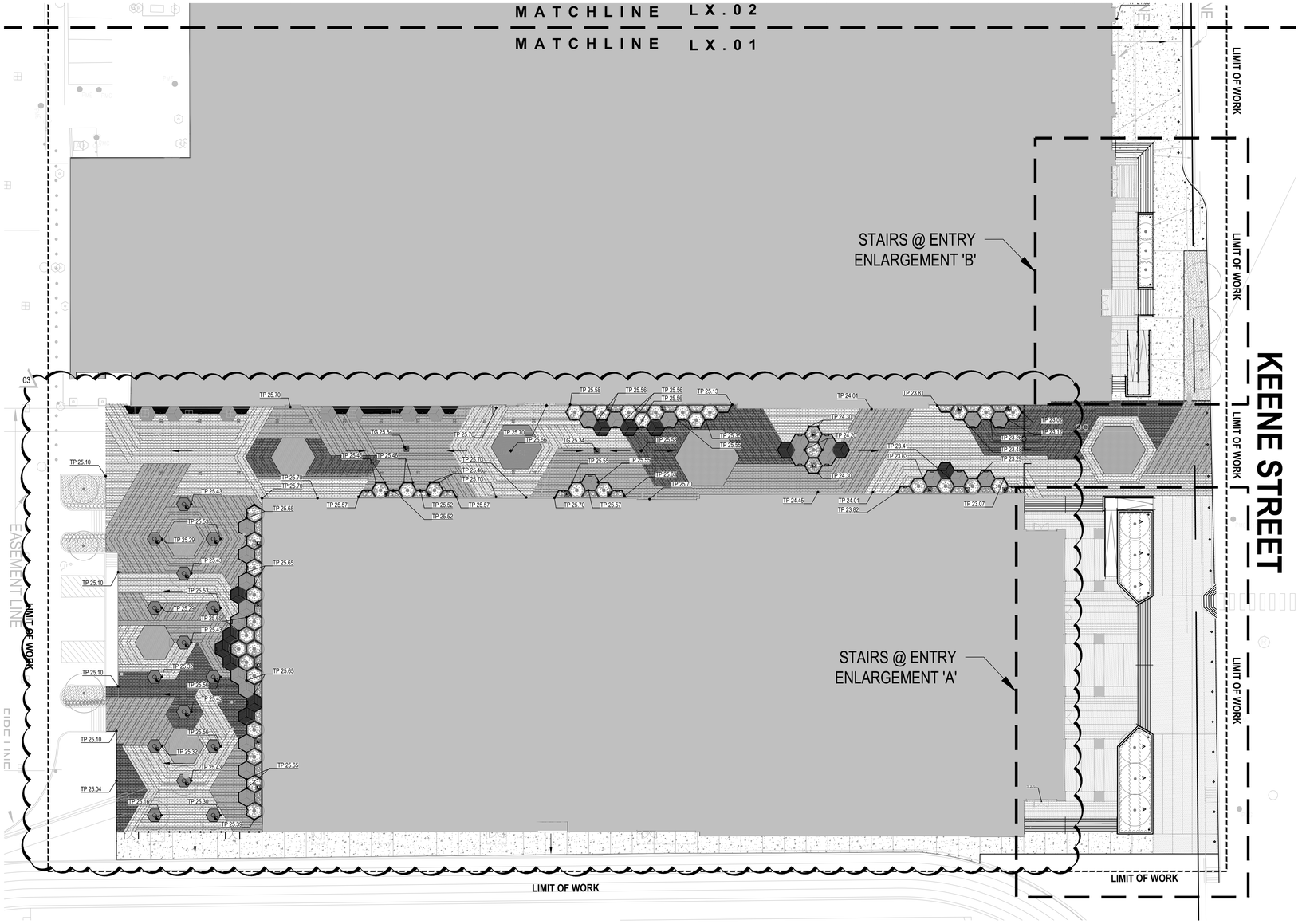
Thursday, January 8, 2026 1:00:20 PM

WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/DOOR:

0"
1"

GRADING LEGEND

- PLANTING DRAIN
- LAWN DRAIN
- PAVING DRAIN
- PAVING DRAIN IN GRAVEL
- DRAIN INLET AT BOX CULVERT
- SLOPE ON PAVEMENT
- SLOPE IN PLANTING



0 10' 20'
1" = 20'

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LX.03
LX.01

KEY PLAN
NORTH: PLAN TRUE

REGISTERED LANDSCAPE ARCHITECT
JACOB T. GALLOWAY
6072
STATE OF TEXAS

12/05/2025

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
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DRAWN BY: AT

GRADING AND DRAINAGE PLAN

L1.01

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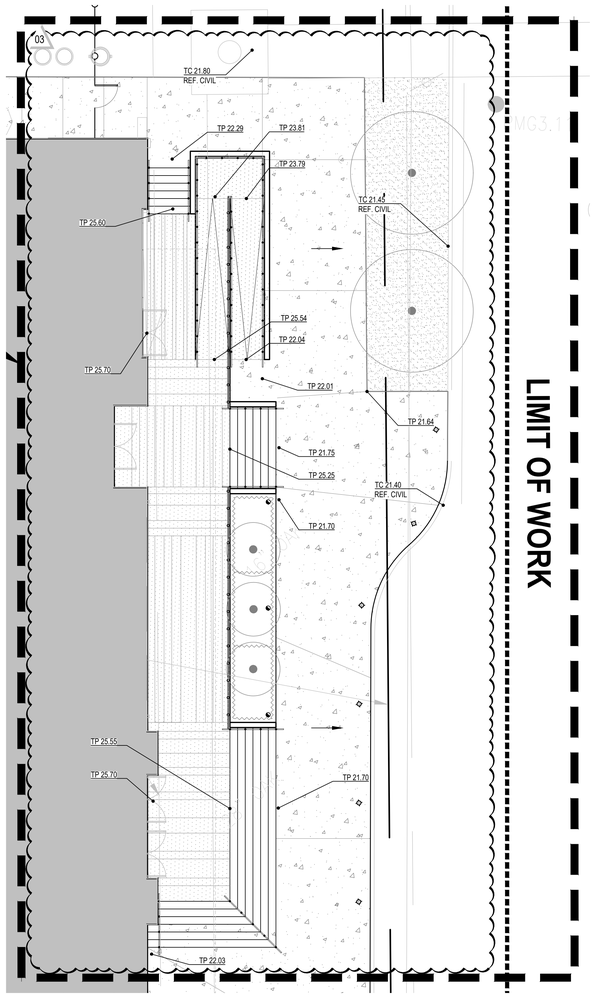
1/7/2026 4:29:08 PM

WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

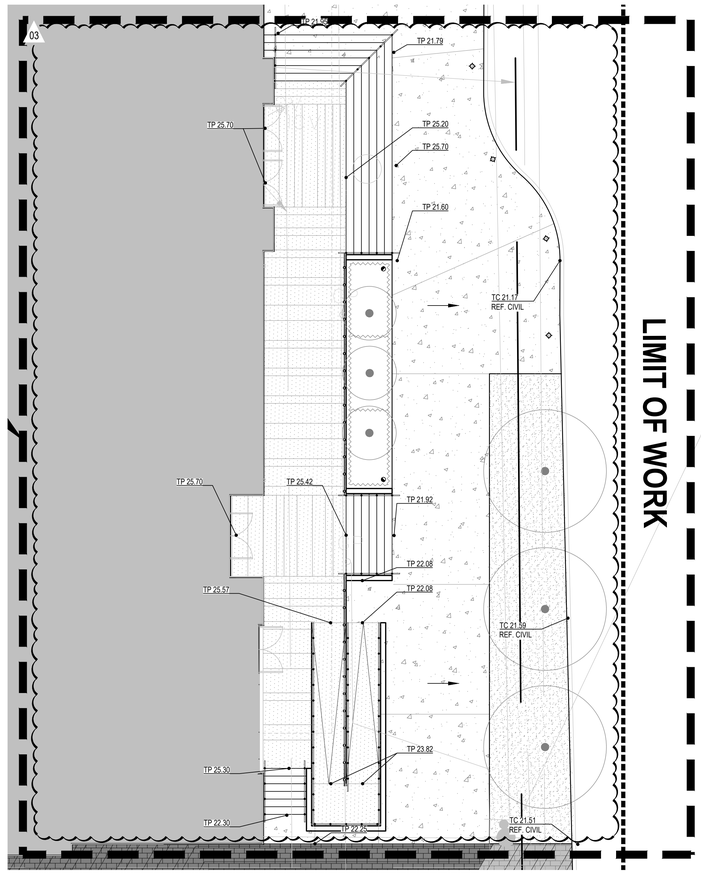
0"
1"

GRADING LEGEND

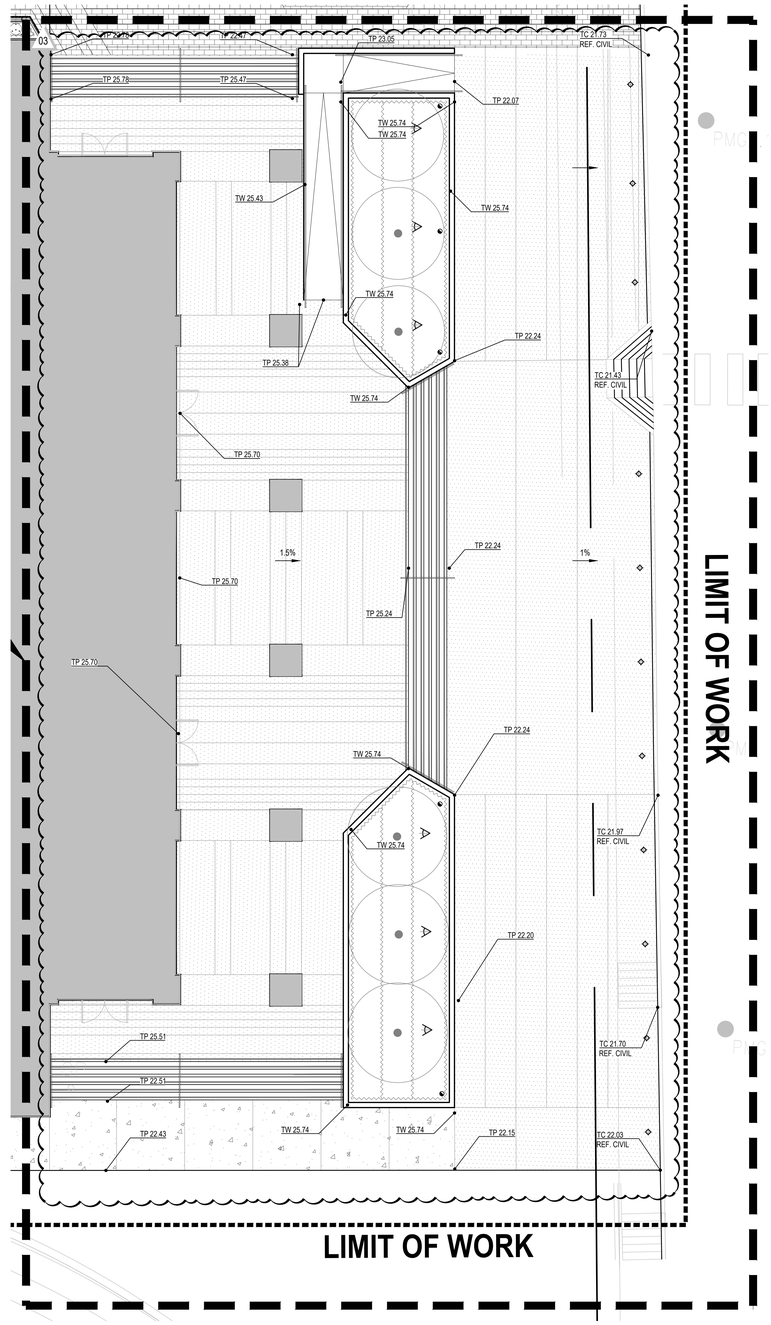
- PLANTING DRAIN
- LAWN DRAIN
- PAVING DRAIN
- PAVING DRAIN IN GRAVEL
- DRAIN INLET AT BOX CULVERT
- SLOPE ON PAVEMENT
- SLOPE IN PLANTING



03 STAIRS @ ENTRY ENLARGEMENT 'C'
1/8" = 1'-0"



02 STAIRS @ ENTRY ENLARGEMENT 'B'
1/8" = 1'-0"



01 STAIRS @ ENTRY ENLARGEMENT 'A'
1/8" = 1'-0"

0 4' 8'
1/4" = 1'-0"

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Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

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GRADING AND DRAINAGE PLAN ENLARGEMENTS

L1.03

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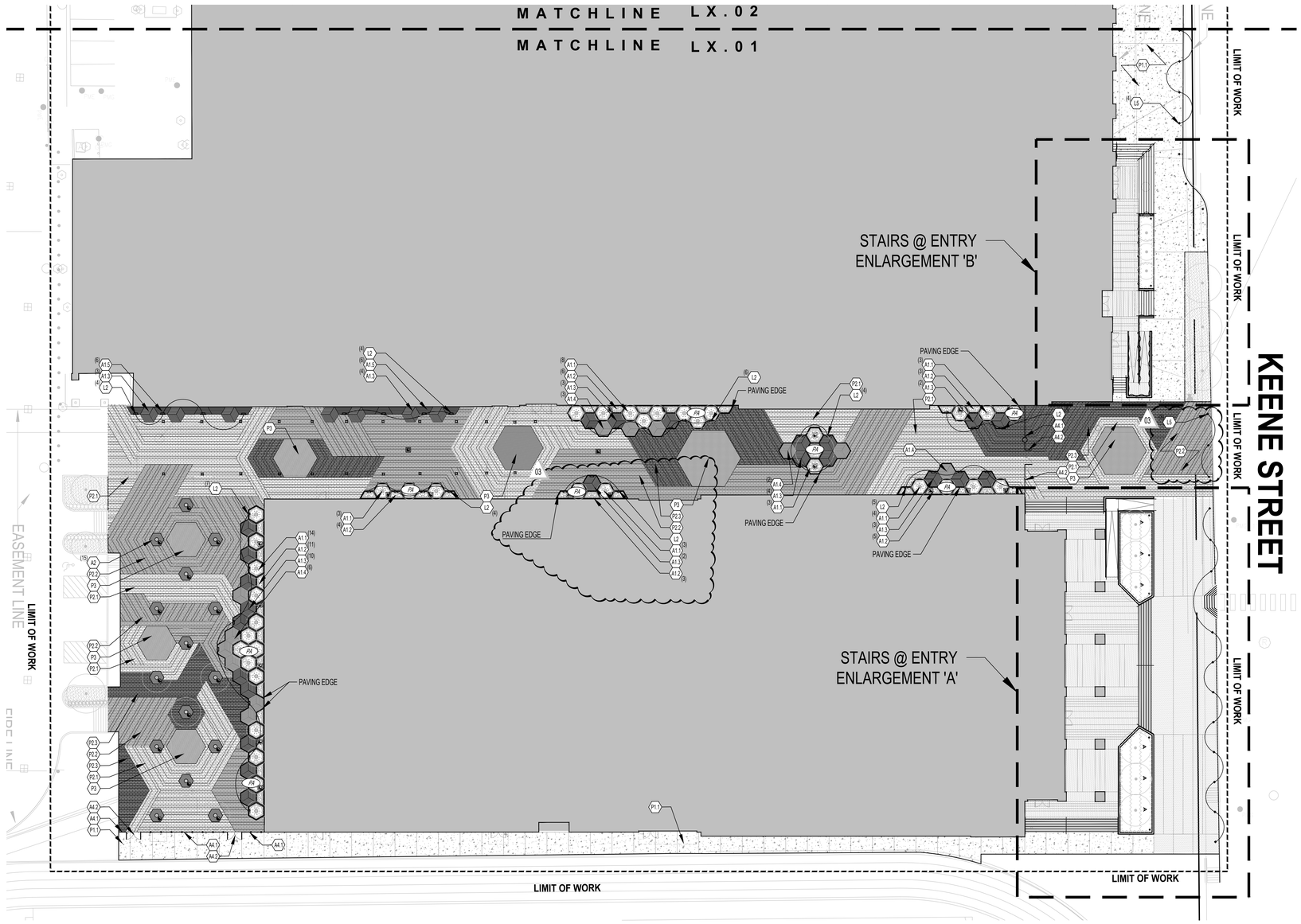
WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/DOOR:

0"
1"

MATERIALS LEGEND

- TYP. CONCRETE
- SPECIALTY CONCRETE
- PEDESTRIAN PAVERS
- DECORATIVE GRAVEL
- TOE OF STAIR
- TOOLED OR SAW CUT JOINT, REF. CALLOUT
- EXPANSION JOINT
- PLANTED AREA, REF. PLANTING PLAN



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1" = 20'

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LX.03
LX.01

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STATE OF TEXAS

12/05/2025

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
03	ADDENDUM 05	01/08/2026

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MATERIALS PLAN

L2.01

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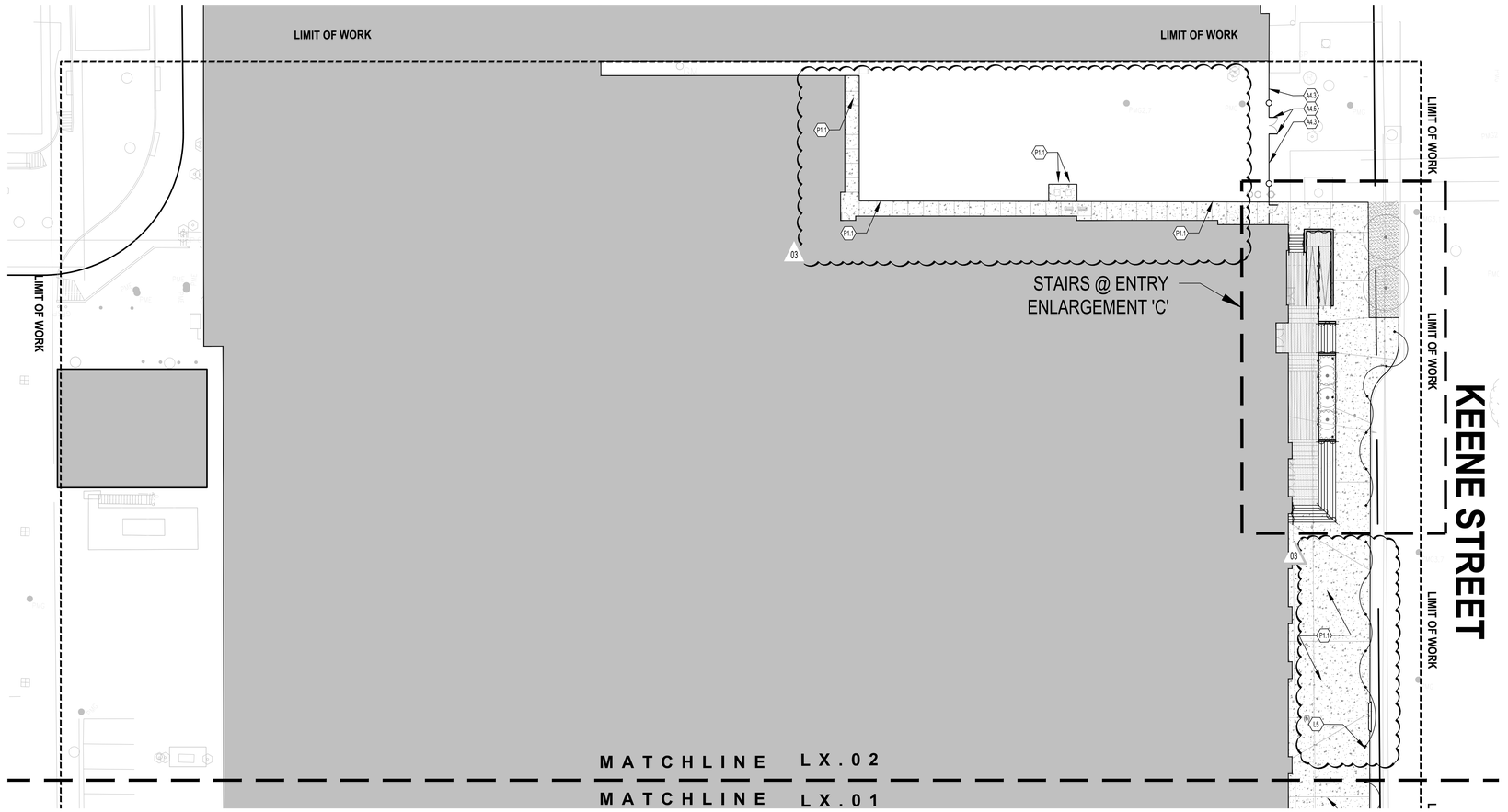
WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

0"
1"



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- SPECIALTY CONCRETE
- PEDESTRIAN PAVERS
- DECORATIVE GRAVEL
- TOE OF STAIR
- TOOLED OR SAW CUT JOINT, REF. CALLOUT
- EXPANSION JOINT
- PLANTED AREA, REF. PLANTING PLAN

0 10' 20'
1" = 20'

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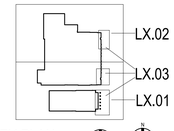

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12/05/2025

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
03	ADDENDUM 05	01/08/2026

CHECKED BY: AT
DRAWN BY: AT

MATERIALS PLAN

L2.02

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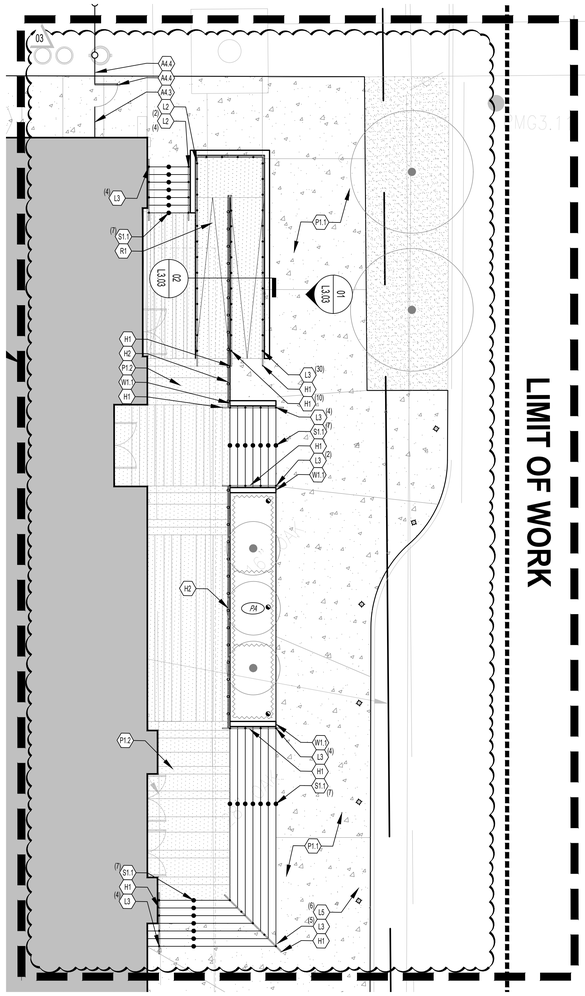
Plot Stamp:
1/7/2026 4:29:24 PM

WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

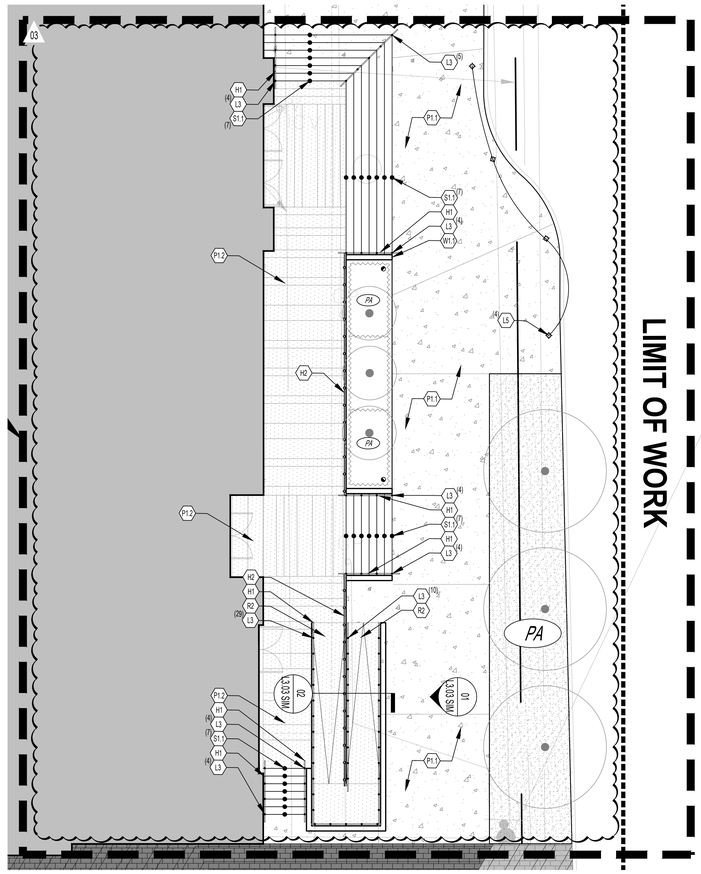
0"
1"

MATERIALS LEGEND

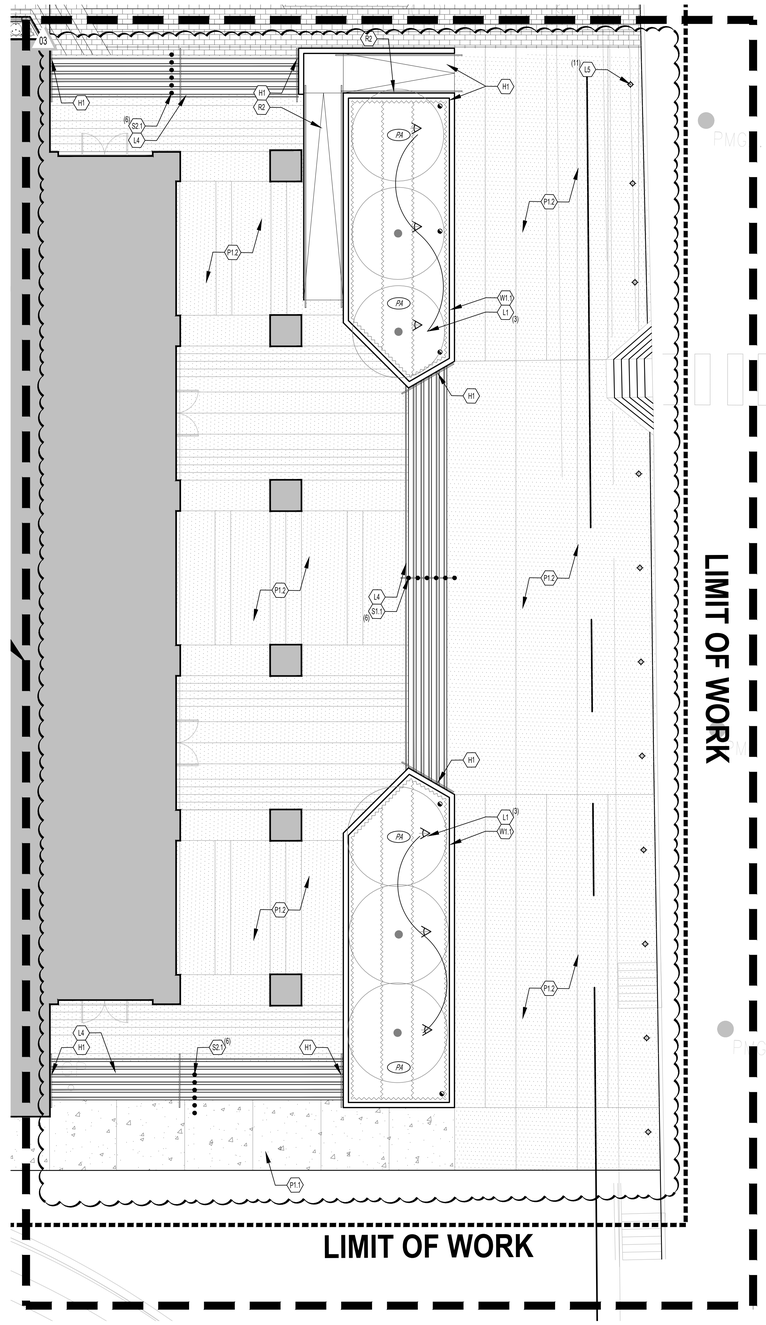
- TYP. CONCRETE
- SPECIALTY CONCRETE
- PEDESTRIAN PAVERS
- DECORATIVE GRAVEL
- TOE OF STAIR
- TOOLED OR SAW CUT JOINT, REF. CALLOUT
- EXPANSION JOINT
- PA — PLANTED AREA, REF. PLANTING PLAN



03 STAIRS @ ENTRY ENLARGEMENT 'C'
1/8" = 1'-0"



02 STAIRS @ ENTRY ENLARGEMENT 'B'
1/8" = 1'-0"



01 STAIRS @ ENTRY ENLARGEMENT 'A'
1/8" = 1'-0"

0 4' 8'
1/8" = 1'-0"

PBK
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TX FIRM: BR 1608
HOUSTON, TX
713-965-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

LX.02
LX.03
LX.01

KEY PLAN
NORTH: PLAN TRUE

REGISTERED LANDSCAPE ARCHITECT
JACOB T. GALLAGHER
3072
STATE OF TEXAS

12/05/2025

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
03	ADDENDUM 05	01/08/2026

CHECKED BY: AT
DRAWN BY: AT

MATERIALS PLAN ENLARGEMENTS

L2.03

File Path: U:\Eagleland\P_Project Drive\TEXAS\25_TX-Galena Park HS-240539\4 Construction Documents

Plot Stamp:
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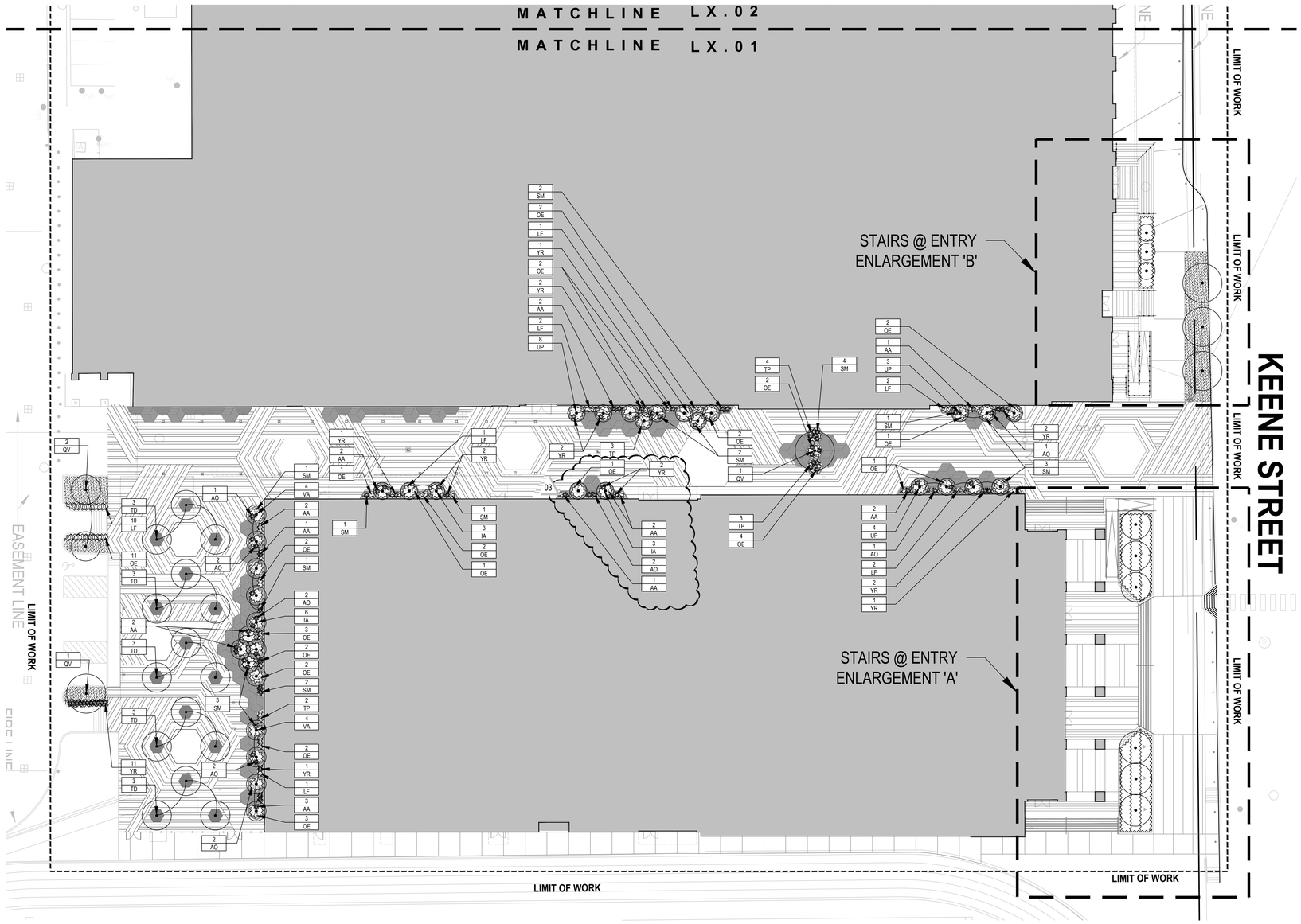
WALL SECTIONS
A-621
FOR BLUEBEAM LABELING/OCR:

0"
1"



PLANTING LEGEND

- SOD
- TYP. PLANTING AREA
- PROPOSED SINGLE TRUNK TREE
- PROPOSED MULTI-TRUNK TREE

0 10' 20'
1" = 20'

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1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

LX.02
LX.03
LX.01

KEY PLAN
NORTH: PLAN TRUE

REGISTERED LANDSCAPE ARCHITECT
JACOB T. GALLIMORE
6572
STATE OF TEXAS

12/05/2025

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
02	ADDENDUM 03	12/18/2025
03	ADDENDUM 05	01/08/2026

CHECKED BY: AT
DRAWN BY: AT

PLANTING PLAN

L4.01

File Path: U:\Egeland\P_Project Drive\TEXAS\25_TX-Galena Park HS-240539\4 Construction Documents
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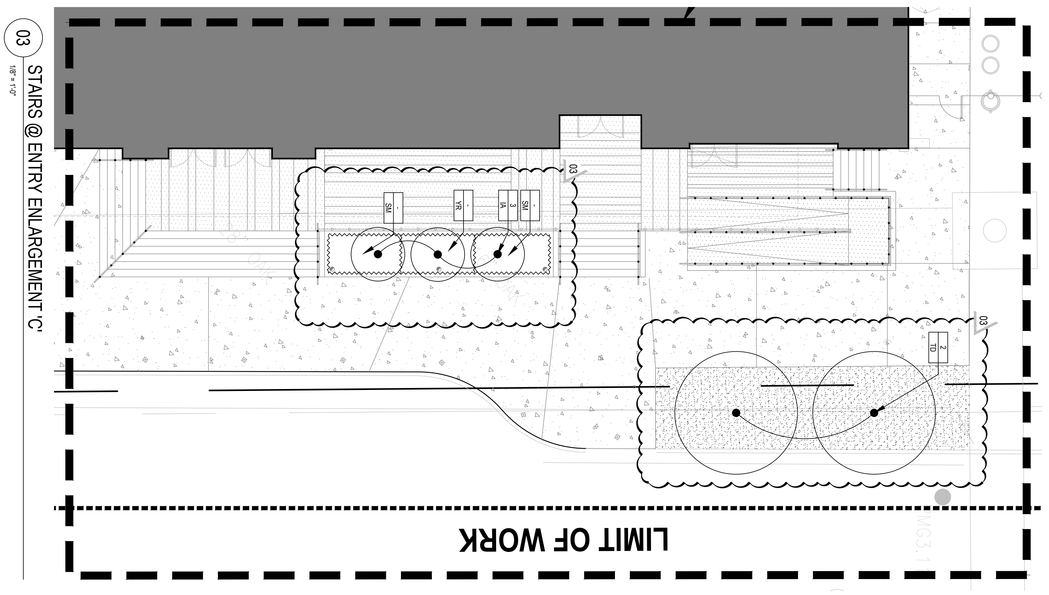

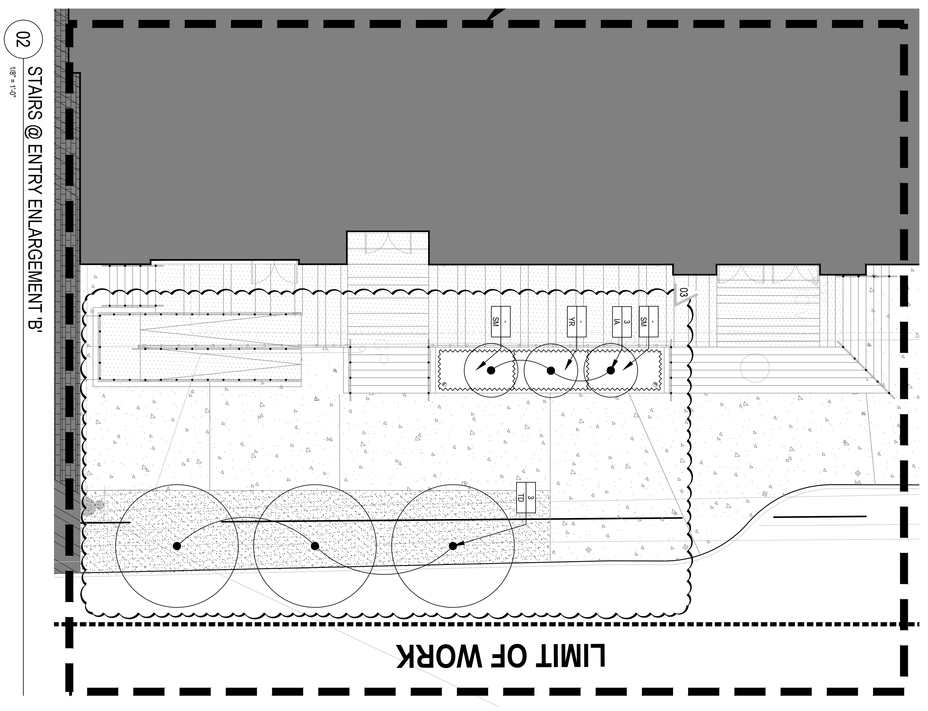

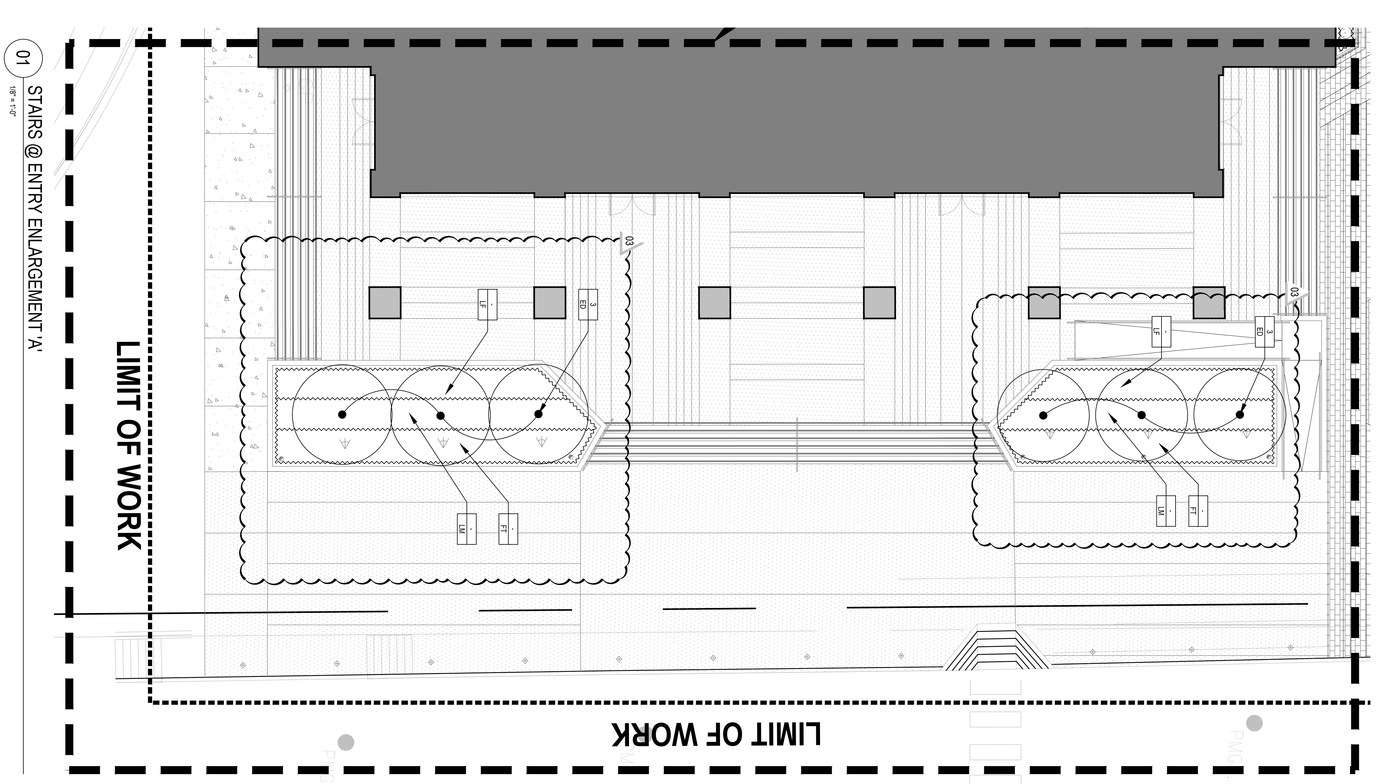

0 4' 8'
1/8" = 1'-0"

L4.03
PLANTING PLAN ENLARGEMENTS

CHECKED BY: AT
DRAWN BY: AT

No.	Description	Date
02	ADDENDUM 02	12/19/2025
03	ADDENDUM 03	01/06/2026

CLIENT: Galena Park ISD
DATE: December 5, 2025
PROJECT NUMBER: 240539
DRAWING HISTORY

12/05/2025

KEY PLAN
NORTH PLAN
TRUE
LX.01 LX.03 LX.02

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

PBK
HOUSTON, TX
713-965-0608
TX FIRM: BR 1608
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GENERAL NOTES
S-011
FOR BLUEBEAM LABEL/INDOOR:

0"
1"

GENERAL:

CODES, DRAWINGS AND SPECIFICATIONS:

1. THE CONSTRUCTION DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE IBC 2009. ALL CODES AND SPECIFICATIONS LISTED ABOVE SHALL INCLUDE ALL AMENDMENTS AND ADDENDA IN FORCE AT THE DATE OF THE CONTRACT DOCUMENTS.

TYPICAL DETAILS:

1. TYPICAL DETAILS SHOWN ON THE DRAWINGS SHALL APPLY TO ALL SIMILAR LIKE CONDITIONS OCCURRING ON THE PROJECT WHETHER OR NOT THEY ARE KEYED IN AT EACH PARTICULAR LOCATION.

MISCELLANEOUS:

1. WHERE CONFLICTS EXIST BETWEEN THE VARIOUS PUBLICATIONS AS SPECIFIED HEREIN, THE STRICTER REQUIREMENTS SHALL GOVERN UNLESS NOTED OTHERWISE. WHERE CONFLICTS EXIST BETWEEN THE VARIOUS PARTS OF THE STRUCTURAL CONTRACT DOCUMENTS (STRUCTURAL DOCUMENTS, SPECIFICATIONS) AS SPECIFIED HEREIN, THE STRICTER REQUIREMENTS SHALL GOVERN.
2. 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.
3. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE.
4. SLEEVES AND BLOCKOUTS REQUIRED FOR PASSAGE OF DUCTWORK, PIPING, DRAINS, CONDUIT, ETC., AND ANCHORS REQUIRED FOR ANCHORING EQUIPMENT AND PIPING ARE NOT GENERALLY INDICATED ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL DETERMINE SUCH REQUIREMENTS FROM OTHER SERIES DRAWINGS, SUBCONTRACTORS, AND SUPPLIERS AND SHALL COORDINATE THE LOCATIONS AND DETAILS FOR THESE ITEMS PRIOR TO FABRICATION OR CONSTRUCTION OF THE STRUCTURE. ANY CONFLICTS BETWEEN THESE ITEMS AND THE BUILDING STRUCTURE SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION.
5. VERIFY, OR ESTABLISH, LOCATIONS AND DIMENSIONS OF ALL FRAMED OPENINGS RELATED TO EQUIPMENT OR DUCTWORK, INCLUDING INSULATION, IF ANY. WHERE SUBSTANTIAL RELOCATION OR RECONFIGURATION IS REQUIRED, SUBMIT A DRAWING TO THE ARCHITECT FOR REVIEW.
6. MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL WHICH ARE NOT AS SPECIFIED IN THE DOCUMENTS SHALL BE ACCOMPANIED BY A CURRENT ES REPORT (BY ICC EVALUATION SERVICE, INC.) OR ICBO REPORT (BY INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS). MATERIALS OR PRODUCTS THAT DO NOT HAVE AN ES OR ICBO REPORT INDICATING THE SUBSTITUTED MATERIAL OR PRODUCT TO BE EQUAL TO THAT SPECIFIED, WILL NOT BE CONSIDERED.
7. IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SHOWN OR SPECIFIED IN SIMILAR CONDITIONS.
8. 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.
9. ALL HEAVILY LOADED VEHICLES, CONCRETE TRUCKS AND CRANES SHALL NOT BE DRIVEN ACROSS GRADE BEAMS OR BUILDING SLABS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THE SLAB INDUCED FROM THIS TYPE OF EQUIPMENT.
10. ERECTION OF STRUCTURAL STEEL MAY NOT BEGIN UNTIL CONCRETE FOUNDATION HAS CURED FOR A MINIMUM OF THREE DAYS. STRUCTURAL STEEL OR OTHER HEAVY LOADS SHALL NOT BE STOCKPILED ON ANY SLAB UNTIL IT HAS CURED FOR A MINIMUM OF SEVEN DAYS.
11. NOTE THAT THE GROUND FLOOR SLAB IS A GROUND SUPPORTED SLAB AT GRADE AS PER THE DESIGN RECOMMENDED IN THE SOIL REPORT. IT IS NOT A STRUCTURAL SLAB AND AS SUCH IT IS NOT DESIGNED FOR ANY EXTERNAL UPWARD OR DOWNWARD LOADS, IT IS INTENDED TO BE ENTIRELY SUPPORTED BY THE PREPARED GROUND UNDER THE SLAB. THE CONTRACTOR SHOULD NOTE THAT THE PERFORMANCE OF THE SLAB AS DESIGNED AND INTENDED BY THE SOIL ENGINEER IS HIGHLY DEPENDENT ON HOW WELL THE CONTRACTOR FOLLOWS THE SITE PREPARATION INSTRUCTION IN THE SOIL REPORT.
12. ALL STRUCTURAL ELEMENTS OF THE PROJECT HAVE BEEN DESIGNED BY THE STRUCTURAL ENGINEER TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES THAT COULD OCCUR IN THE FINAL COMPLETED STRUCTURE ONLY. THE ABILITY OF THE STRUCTURAL FRAME TO RESIST THE REQUIRED CODE FORCES DERIVES FROM THE COMPLETE INSTALLATION OF THE LATERAL FORCE RESISTING SYSTEMS AND DIAPHRAGMS DESCRIBED BELOW. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL REQUIRED BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PROCESS UNTIL THE LATERAL-LOAD RESISTING OR STABILITY-PROVIDING SYSTEM IS COMPLETELY INSTALLED AND ALL DESIGNATED CONCRETE ELEMENTS (IF ANY) HAVE REACHED A MINIMUM OF 75% OF THEIR DESIGN STRENGTH.
13. THE STRUCTURE HAS BEEN DESIGNED FOR THE LOADS IDENTIFIED WITHIN THESE STRUCTURAL DRAWINGS THAT ARE ANTICIPATED TO BE APPLIED TO THE FINAL STRUCTURE ONCE COMPLETED AND OCCUPIED. THE CONTRACTOR SHALL NOT OVERLOAD THE STRUCTURE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE ADEQUACY OF THE STRUCTURE TO SUPPORT ANY APPLIED CONSTRUCTION LOADS, INCLUDING THOSE DUE TO CONSTRUCTION VEHICLES OR EQUIPMENT, MATERIAL HANDLING OR STORAGE, SHORING OR RESHORING, OR ANY OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL SUBMIT CALCULATIONS SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED VERIFYING THE ADEQUACY OF THE STRUCTURE FOR ANY PROPOSED CONSTRUCTION LOADS THAT ARE IN EXCESS OF THE STATED DESIGN LOADS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE TO DESIGN OR CHECK THE STRUCTURE FOR LOADS APPLIED TO THE STRUCTURE FOR ANY CONSTRUCTION ACTIVITY.

DESIGN CRITERIA:

DEAD LOADS:

1. DEAD LOADS INCLUDE THE WEIGHT OF THE STRUCTURAL COMPONENTS AND ALLOWANCES FOR PERMANENT PARTITIONS, PERMANENT FIXTURES, FINISHES, ROOFING, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION MATERIALS SHOWN OR SPECIFIED.
2. LOADINGS FOR MECHANICAL ROOMS ARE BASED ON THE WEIGHTS OF ASSUMED EQUIPMENT AS INDICATED ON THE MECHANICAL DRAWINGS (INCLUDING THE WEIGHT OF CONCRETE PADS, WHERE INDICATED). ANY CHANGES IN TYPE, SIZE, LOCATION OR NUMBER OF PIECES OF EQUIPMENT SHOULD BE REPORTED TO THE ARCHITECT FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.
3. DESIGN DEAD LOADING IS AS FOLLOWS:

ROOF (RIGID INSULATION BOARD)	SELF WEIGHT + 25 PSF COLLATERAL
ROOF (LIGHTWEIGHT INSULATION FILL)	SELF WEIGHT + 35 PSF COLLATERAL
FLOOR	SELF WEIGHT + 25 PSF COLLATERAL

LIVE LOADS:

1. DESIGN LIVE LOADING IS AS FOLLOWS:

ROOF	20 PSF, 300# CONCENTRATED LOAD (REDUCIBLE)
TYPICAL FLOORS	100 PSF , 1000# CONCENTRATED LOAD (REDUCIBLE)
ALL SLABS-ON-GRADE	100 PSF
MECHANICAL/ELECTRICAL ROOM (MIN.)	150 PSF (UNREDUCIBLE)
ELEVATOR MACHINE ROOM	150 PSF (UNREDUCIBLE)
HANDRAILS AND GUARDRAILS	50 PLF OR 200# APPLIED AT TOP RAIL IN ANY DIRECTION
LIBRARY, COMPUTER ROOM	150 PSF (UNREDUCIBLE)
LIGHT STORAGE	150 PSF (UNREDUCIBLE)
STAGE	125 PSF (UNREDUCIBLE)
STAIRWAYS AND EXITS	100 PSF + 300# CONCENTRATED LOAD AT TREAD MIDSPAN
CATWALKS	40 PSF

SNOW LOADS:

1. DESIGN SNOW LOADING IS AS FOLLOWS:

GROUND SNOW LOAD, Pg	5.0 PSF
SNOW LOAD IMPORTANCE FACTOR	1.1
SNOW RISK CATEGORY	III
SNOW THERMAL FACTOR, Ct	1.0
SNOW EXPOSURE FACTOR, Ce	0.9
FLAT SNOW LOAD, Pf	3.5 PSF
ROOF SLOPE FACTOR, Cs	1.0
SLOPED (BALANCED) SNOW LOAD, Ps	3.5 PSF

WIND LOADS:

1. WIND PRESSURES ARE BASED ON THE PROVISIONS OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-05, CITY OF GALENA PARK AMENDMENTS, AND THE FOLLOWING CRITERIA:

A. WIND DESIGN DATA (USED FOR PRESSURE DETERMINATION FOR THE DESIGN OF BUILDING)

1. BASIC WIND SPEED, V	116 MPH (3-SECOND GUST) (SERVICE WIND SPEED) ******PLEASE NOTE: THIS BUILDING WIND PRESSURES ARE DETERMINED UNDER THE LEGACY IBC 2009 AND ASCE7-05 CODES*******
2. WIND OCCUPANCY CATEGORY	III
3. WIND IMPORTANCE FACTOR, I	1.15
4. WIND EXPOSURE CATEGORY	B
5. INTERNAL PRESSURE COEFFICIENT, Gcpi	+/-0.18
6. WIDTH OF END ZONE, 2a	55.2 FT

B. WIND-BORNE DEBRIS DATA*** (USED TO DETERMINE IF BUILDING IS LOCATED WITHIN A WIND-BORNE DEBRIS REGION) ******PLEASE NOTE: THIS BUILDING WIND-STORM DETERMINATION IS UNDER THE NEW IBC 2021 AND ASCE 7-16 CODES*******

1. WIND-BORNE DEBRIS BASIC WIND SPEED TRIGGER, V	140 MPH (3-SECOND GUST) (ULTIMATE)
2. BASIC WIND SPEED, V	(91 MPH)
3. WIND OCCUPANCY CATEGORY	II
4. WIND-BORNE DEBRIS PROTECTION REQUIRED?	NO

******* - THE INFORMATION SHOWN IN WIND LOADS SECTION 1.B IS ONLY PROVIDED TO INDICATE IF THE BUILDING IS WITHIN A WIND-BORNE DEBRIS AREA. THIS SECTION DOES NOT APPLY TO ANY COMPONENTS THAT ARE LISTED AS DELEGATED DESIGN. ALL DELEGATED DESIGN COMPONENTS SHALL BE DESIGN FOR THE WIND DESIGN DATA AND DESIGN WIND PRESSURES PROVIDED IN SECTION 1.A AND 1.C.

C. DESIGN WIND PRESSURES ******* PLEASE NOTE: THE PRESSURES NOTED BELOW ARE ALL LEGACY SERVICE / ASD PRESSURES AND WILL REQUIRE INCREASE FACTORS TO COMPARE TO TODAY'S ULTIMATE PRESSURES AND TODAY'S COMMON CHARTS/DESIGN VALUES... YOU CANNOT USE THE VALUES DIRECTLY AGAINST A WIND CHART TODAY. THIS WOULD SEVERELY UNDERESTIMATE THE PRESSURE *******

TO COMPARE THESE PRESSURES TO DAY'S COMMON ULTIMATE CHARTS AND DESIGN TABLES THESE VALUES MUST BE MULTIPLIED BY 1.6 TO CONVERT TO ULTIMATE LOAD.

1. MAIN WIND-FORCE RESISTING SYSTEM (MWFRS)

I. WALLS (WW+LW) **(SERVICE / ASD PRESSURE VALUES)** - MULTIPLY BY 1.6 TO OBTAIN ULTIMATE PRESSURE VALUES

0'-15'	36.2 PSF
15'-20'	37.4 PSF
20'-25'	38.4 PSF
25'-30'	39.2 PSF
30'-40'	40.6 PSF
40'-50'	41.8 PSF
50'-60'	42.8 PSF
60'-70'	43.6 PSF
70'-72'	43.8 PSF

2. COMPONENTS AND CLADDING

I. WALLS (AREA = 75 SF)

INTERIOR ZONE	40.6 PSF
END ZONE	45.8 PSF

II. ROOF UPLIFT (GROSS) - ROOF ATTACHMENTS (AREA = 10 SF)

NEGATIVE ZONE 1	46.5 PSF
NEGATIVE ZONE 2	78.0 PSF
NEGATIVE ZONE 3	117.5 PSF
OVERHANG 1 & 2 *	67.0 PSF
OVERHANG ZONE 3*	110.4 PSF

III. ROOF UPLIFT (GROSS) - JOISTS (AREA = 100 SF)

NEGATIVE ZONE 1	42.6 PSF
NEGATIVE ZONE 2	50.4 PSF
NEGATIVE ZONE 3	50.4 PSF
OVERHANG 1 & 2 *	63.1 PSF
OVERHANG ZONE 3*	31.5 PSF

IV. ROOF UPLIFT (GROSS) - GIRDERS (AREA > 700 SF)

0' TO 72	50.0 PSF
72 TO 144	40.9 PSF
>144	35.0 PSF
WINDWARD ROOF OVERHANGS (ADD TO WINDWARD ROOF PRESSURE)	30.0 PSF (UPWARD)

V. ROOF POSITIVE WIND PRESSURE (GROSS) - ALL ZONES

C&C AREA = 10 SF	18.9 PSF
C&C AREA = 100 SF	15.0 PSF
C&C AREA > 700 SF	15.0 PSF

* - OVERHANG PRESSURES IN THE TABLE ABOVE ASSUME AN INTERNAL PRESSURE COEFFICIENT (Gcpi) OF 0.0

SEISMIC LOADS:

1. THE STRUCTURE AND COMPONENTS OF THE BUILDING HAVE BEEN DESIGNED IN ACCORDANCE WITH AFOREMENTIONED BUILDING CODE WITH THE FOLLOWING CRITERIA:

RISK CATEGORY	III
IMPORTANCE FACTOR	1.25
MAPPED SPECTRAL RESPONSE COEFFICIENT:	Ss = 0.072g S1 = 0.039g
SITE CLASS	D
DESIGN SPECTRAL RESPONSE COEFFICIENTS:	Sds = 0.058g Sd1 = 0.044g
SEISMIC DESIGN CATEGORY	A
LATERAL SYSTEM	STRUCTURAL STEEL SYSTEM NOT SPECIFICALLY DESIGNED FOR SEISMIC RESISTANCE
BASE SHEAR	V = 0.029W K
SEISMIC RESPONSE COEFFICIENT	CS = 0.029
RESPONSE MODIFICATION FACTOR	R = 3.0
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE

ALLOWANCE NOTES:

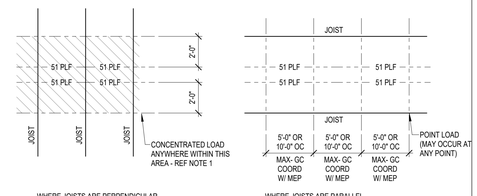
TO ACCOUNT FOR ANY POTENTIALLY UNREALIZED CONDITIONS THE GENERAL CONTRACTOR SHALL PROVIDE THE FOLLOWING ALLOWANCES:

1. PROVIDE AN ALLOWANCE FOR AN ADDITIONAL 35 TONS OF MISCELLANEOUS STEEL. SIZES OF MEMBERS AND USE OF MEMBERS SHALL BE AS DIRECTED BY THE ARCHITECT IN THE FIELD. ALLOWANCE SHALL INCLUDE/ACCOUNT FOR ALL COSTS FOR MATERIAL, FABRICATION, DELIVERY, ERECTION, ETC. ANY UNUSED PORTION OF THE 35 TONS OF STEEL SHALL BE CREDITED BACK TO THE OWNER AT $4,800.00 / TON.
2. PROVIDE AN ALLOWANCE FOR AN ADDITIONAL 350 CUBIC YARDS OF CONCRETE. SIZE OF MEMBERS AND USE OF MEMBERS SHALL BE AS DIRECTED BY THE ARCHITECT IN THE FIELD. ALLOWANCE SHALL INCLUDE/ACCOUNT FOR ALL COSTS FOR MATERIAL, FABRICATION, DELIVERY, LABOR FOR INSTALLATION/ PLACEMENT, FORMWORK, ETC. REINFORCEMENT FOR CONCRETE SHALL ALSO BE INCLUDED AS PART OF THIS ALLOWANCE AND SHALL BE ASSUMED TO BE 2% MINIMUM BY VOLUME. ANY UNUSED PORTION OF THE 350 CUBIC YARDS SHALL BE CREDITED BACK TO THE OWNER AT $190.00 / CUBIC YARD.
3. CONTRACTOR SHALL PROVIDE IN HIS BID A UNIT PRICE ADD AND UNIT PRICE DEDUCT FOR EACH PIER SIZE UTILIZED ON THE PROJECT.
4. THE PRICE FOR CASING OF PIERS SHALL BE INCLUDED WITHIN THE BASE BID FOR ALL DRILLED (BELLED) PIERS ON THE PROJECT. CONTRACTOR SHALL PROVIDE AN ALLOWANCE FOR 100% CASING OF DRILLED PIERS. CONTRACTOR SHALL ALSO PROVIDE UNIT PRICE FOR EACH SIZE OF CASING UTILIZED ON THE PROJECT. PAYMENT FOR CASING SHALL BE BASED UPON NET LENGTH OF CASING UTILIZED MULTIPLIED BY THE UNIT PRICE.
5. THE DRAWINGS AND SPECIFICATIONS MAY NOT INDICATE OR DESCRIBE ALL OF THE WORK REQUIRED FOR THE PERFORMANCE AND COMPLETION OF THE PROJECT. REFER TO IMPORTANT FOUNDATION / CONCRETE, MASONRY / CMU, AND STEEL NOTES TO PROPOSERS FOLLOWING THIS SECTION.

MISCELLANEOUS LOADS:

1. ALL JOISTS ALONG PIPE RUN SHALL BE DESIGNED FOR SUSPENDED PIPE WEIGHT. IT'S THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE HOW OFTEN PIPES WILL BE HUNG (5'-0" OC OR 10'-0" OC) SO THAT PROPER LOADING MAY BE ACCOUNTED FOR. IT IS RECOMMENDED TO HANG FROM EACH JOIST (GC MUST COORDINATE WITH MEP CONTRACTOR TO ENSURE SAME HANGING PATTERN IS FOLLOWED):

ADDITIONAL JOIST DEAD-LOAD FOR MECHANICAL PIPE LOADS WITH WATER		
PIPE SIZE (DIAMETER)	PERPENDICULAR CONDITION	PARALLEL CONDITION
3"	110 LBS AT 10'-0"	11 PLF
4"	170 LBS AT 10'-0"	17 PLF
5"	240 LBS AT 10'-0"	24 PLF
6"	320 LBS AT 10'-0"	32 PLF
8"	510 LBS AT 10'-0"	51 PLF
10"	750 LBS AT 10'-0"	75 PLF



PIPE RUN JOIST LOADING

NOTE:
WHERE PIPES RUN PERPENDICULAR TO JOISTS, JOISTS THAT ARE SUPPORTING PIPES SHALL BE DESIGNED FOR ADDITIONAL CONCENTRATED DEAD LOAD AT ANY POINT ALONG JOIST SPAN WITHIN THE HATCHED AREA.

2. ARCHITECTURAL BARRIER ACT STANDARD:

ITEM	REQUIRED CAPACITY
GRAB BAR	250 POUNDS ANY DIRECTION
TUB OR SHOWER SEAT	250 POUNDS ANY DIRECTION
FASTENERS & MOUNTING DEVICES	250 POUNDS ANY DIRECTION

BUILDING MOVEMENT AND DEFLECTION:

A. ROOF MEMBERS	DEFLECTION LIMIT
1. LIVE LOAD MAXIMUM ALLOWABLE DEFLECTION	SPAN/360
2. TOTAL LOAD MAXIMUM ALLOWABLE DEFLECTION	SPAN/240
B. FLOOR MEMBERS	
1. LIVE LOAD MAXIMUM ALLOWABLE DEFLECTION	SPAN/360
2. TOTAL LOAD MAXIMUM ALLOWABLE DEFLECTION	SPAN/240
C. MEMBERS SUPPORTING MASONRY	
1. LIVE LOAD MAXIMUM ALLOWABLE DEFLECTION	SPAN/600 OR 3/8"
D. BUILDING FRAME	
1. MAXIMUM ALLOWABLE STORY DRIFT	HEIGHT/500 (TOTAL BUILDING HEIGHT)

IMPORTANT NOTES TO CONTRACTORS & PROPOSERS:

FOUNDATION / CONCRETE:

1. THESE DRAWINGS AND SPECIFICATIONS DO NOT NECESSARILY INDICATE ALL OF THE WORK REQUIRED FOR THE COMPLETION OF THE PROJECT. THESE DRAWINGS DO NOT NECESSARILY INDICATE ALL FOUNDATION / CONCRETE WORK WHICH MAY BE REQUIRED BASED ON THE ARCHITECTURAL DRAWINGS.
2. WHERE FOUNDATION / CONCRETE ITEMS ARE IMPLIED OR INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FABRICATION AND INSTALLATION OF THESE ITEMS. THIS INCLUDES ANY FOUNDATION / CONCRETE ITEMS INDICATED ON THE ARCHITECTURAL DRAWINGS AND NOT SHOWN ON THE STRUCTURAL DRAWINGS AND ANY ITEMS SHOWN ON THE STRUCTURAL DRAWINGS AND NOT NOTED. PROPOSERS SHALL ASSUME FOR PROPOSAL PURPOSES ONLY THE SIZE OF THESE ITEMS ARE AS FOLLOWS:

A. GRADE BEAMS:	GB2 (REFER TO GRADE BEAM SCHEDULE)
B. PILASTER OR PLINTH:	PILASTER MATCHING SIZE AND REINF. PER TYPICAL PILASTER DETAILS.
C. SLAB-ON-GRADE:	5" THICK CONCRETE SLAB ON GRADE REINFORCED WITH EITHER: - #3 BARS AT 10" OC EACH WAY ON 2 3/4" CHAIRS SPACED AT 36" OC EACH WAY, OR, - #4 BARS AT 16" OC EACH WAY ON 2 1/2" CHAIRS SPACED AT 36" OC EACH WAY. PLACE THE SLAB ON A 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL. REFER TO SOIL REPORT. FOR SLAB JOINT DETAILS, REFER TO 1/S-301 AND 2/S-301.
D. STEM WALLS:	10" THICK WITH (2) LAYERS OF #5 BARS AT 12" OC EACH WAY, ONE LAYER ON EACH FACE WITH 3" CLEAR COVER.

THE CONTRACTOR SHALL SUBMIT AN RFI AND THE ENGINEER SHALL APPROVE THE SIZE OF THE MEMBER BEFORE CONSTRUCTION OR FABRICATION

3. THERE ARE NUMEROUS AREAS OF "EXTERIOR CONCRETE" THAT IS SHOWN BY STRUCTURAL. IN ALL CASES THIS CONCRETE IS INTENDED TO BE SUSPENDED WHETHER ADJACENT TO SLAB-ON-GRADE OR SUSPENDED SLAB AREAS. THE FINISH OF THIS CONCRETE SHALL FOLLOW DIRECTION FROM ARCH/CIVIL. STRUCTURAL CANNOT DICTATE THE DIRECTION OF SLOPE OR FINISH OF THESE CONCRETE AREAS. IT IS THE GC'S SOLE RESPONSIBILITY TO COORDINATE WITH THE ARCH AND CIVIL DRAWINGS AND PROVIDE APPROPRIATE SLOPE DIRECTION, SLOPE AMOUNT, AND SURFACE FINISH TO MEET ALL REQUIREMENTS SET FOR IN ARCH AND CIVIL DRAWINGS, TYPICAL. GC SHALL ENSURE ALL STOREFRONTS, DOORS AND/OR OTHER OPENING INFILL ELEMENTS HAVE AN APPROVED WATERSTOP BELOW BETWEEN THE INFILL COMPONENT AND THE SLAB. THIS IS REQUIRED AT ALL AREAS BUT EXCEPTIONALLY CRITICAL AT THE AREAS WITH EXTERIOR STRUCTURAL SLAB.

4. UNLESS SPECIFICALLY DIRECTED OTHERWISE WITHIN THE STRUCTURAL CD'S OR SPECIFICATIONS, AT ALL SAW-CUT AND CONSTRUCTION JOINTS WITHIN CONCRETE SLABS-ON-GRADE THE GENERAL CONTRACTOR SHALL PROVIDE A SEMI-RIGID JOINT FILLER, EITHER MM80 OR EUCO 700 WITHIN EACH JOINT. THE JOINT FILLER MUST BE INSTALLED SOON AFTER CONCRETE SLAB INSTALLATION TO PREVENT SPALL AND BREAK-DOWN OF THE HARD CONCRETE EDGES OF THE SAW-CUTS AND CONSTRUCTION JOINTS UNDER THE CONSTRUCTION EQUIPMENT. FOLLOW ALL MANUFACTURERS RECOMMENDATIONS FOR PROPER CLEANING AND PREP PRIOR TO INSTALL. THE FILLER MUST FILL THE FULL LENGTH AND FULL DEPTH OF THE JOINT. ONCE INSTALLED THE JOINT FILLER SHALL BE PROTECTED UNTIL THE BUILDING IS APPROVED FOR OCCUPANCY. IF THE CONTRACTOR DESIRES TO PROVIDE AN APPROVED EQUAL TO THE PRODUCTS SPECIFIED ABOVE OR WITHIN THE CONSTRUCTION DOCUMENTS THE GENERAL CONTRACTOR MUST RECEIVE WRITTEN APPROVAL FROM THE STRUCTURAL EOR PRIOR TO ASSUMING COST WITHIN BID. UNTIL SUCH APPROVAL CAN BE PROVIDED THE GENERAL CONTRACTOR SHALL ACCOUNT FOR THE COST OF THE APPROVED PRODUCTS WITHIN THE CD'S AND / OR AS NOTED ABOVE.

MASONRY / CMU:

1. THESE DRAWINGS AND SPECIFICATIONS DO NOT NECESSARILY INDICATE ALL OF THE WORK REQUIRED FOR THE COMPLETION OF THE PROJECT. THESE DRAWINGS DO NOT NECESSARILY INDICATE ALL MASONRY / CMU WORK WHICH MAY BE REQUIRED BASED ON THE ARCHITECTURAL DRAWINGS.
2. IF A CMU WALL IS INDICATED ON THE ARCHITECTURAL DRAWINGS AND NO SUPPORT MEMBERS OR NOTES HAVE BEEN INDICATED WHERE SUPPORT AND NOTES HAVE BEEN PROVIDED FOR OTHER SIMILAR CONDITIONS THE GC SHALL ASSUME A LIKE FOR LIKE SUPPORT SYSTEM FOR SIMILAR HEIGHTS OF CMU. FOR EXAMPLE: IF A FULL HEIGHT WALL IS SHOWN ON ARCHITECTURAL IT SHALL BE ASSUMED THAT THE SAME STRUCTURAL SUPPORT WILL BE PROVIDED BELOW THIS WALL AS IS SHOWN FOR ALL FULL HEIGHT WALLS, THIS WOULD INCLUDE THE SAME TYPICAL GRADE BEAM, TYPICAL PIER, AND TYPICAL CMU REINFORCEMENT.
3. U.N.O. GC SHALL ASSUME ALL INTERIOR CMU WALLS, NOT BEING USED AS STRUCTURAL SHEARWALLS, WILL BE BRACED TO THE ABOVE STRUCTURE, ROOF OR FLOOR, PER 5/S-403AND THAT WALLS ARE REINFORCED PER 2/S-401. U.N.O. GC SHALL ASSUME ALL EXTERIOR CMU WALLS AND ALL INTERIOR CMU WALLS BEING USED AS SHEARWALLS TO BE STRUCTURALLY CLIPPED TO THE FLOOR OR ROOF ABOVE PER 8/S-402 AND THAT ALL WALLS ARE REINFORCED PER €/S-401

STEEL:

1. THESE DRAWINGS AND SPECIFICATIONS DO NOT NECESSARILY INDICATE ALL OF THE WORK REQUIRED FOR THE COMPLETION OF THE PROJECT. THESE DRAWINGS DO NOT NECESSARILY INDICATE ALL SECONDARY FRAMING WHICH MAY BE REQUIRED BASED ON THE ARCHITECTURAL DRAWINGS.
2. WHERE MISCELLANEOUS METAL ITEMS ARE IMPLIED OR INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FABRICATION AND INSTALLATION OF THESE ITEMS. THIS INCLUDES ANY MISCELLANEOUS METAL ITEMS INDICATED ON THE ARCHITECTURAL DRAWINGS AND NOT SHOWN ON THE STRUCTURAL DRAWINGS AND ANY ITEMS SHOWN ON THE STRUCTURAL DRAWINGS AND NOT NOTED. PROPOSERS SHALL ASSUME FOR PROPOSAL PURPOSES ONLY THE SIZE OF THESE ITEMS ARE AS FOLLOWS:

A. ANGLES: L6X6X3/8
B. CHANNELS: C12X20.7
C. PLATES: 1/2" THICK
D. ANCHOR RODS: 1 1/2" DIAMETER X 18" LONG
E. EPOXY ANCHORS: 3/4 " DIAMETER AT 48" OC MAX SPACING
F. WIDE FLANGE BEAMS: W24X55
G. WIDE FLANGE COLUMNS: W12X79
H. HSS COLUMNS: HSS8X8X1/2
I. HSS BEAMS: HSS18X6X5/8
J. VERT. BRACE: HSS8X8X3/8

THE CONTRACTOR SHALL SUBMIT AN RFI AND THE ENGINEER SHALL APPROVE THE SIZE OF THE MEMBER BEFORE CONSTRUCTION OR FABRICATION

3. PROVIDE SUPPORT FOR EDGES OF ROOF AND FLOOR DECK WHETHER SHOWN ON THE DRAWINGS OR NOT. PROVIDE CONTINUOUS SCREED ANGLE OR BENT PLATE FOR SLAB EDGES.
4. PROVIDE SHEAR STUDS AT ALL FLOOR BEAMS. BEAMS WITHOUT STUDS NOTED SHALL HAVE 3/4 " DIAMETER STUDS SPACED AT 12" OC.
5. THE GENERAL CONTRACTOR AND THE ELEVATOR SUPPLIER SHALL REVIEW THE STRUCTURAL DRAWINGS FOR FLOOR TO FLOOR AND FLOOR TO ROOF HEIGHTS FOR THE REQUIRED DISTANCE BETWEEN BRACE POINTS, FOR THEIR RAIL DESIGN. PROVIDE A W18x50 MINIMUM HOIST BEAM SIZE. IF NO OTHER SIZE IS PROVIDED ON THE PLANS. BRACING REQUIREMENTS FOR THE TOP OF THE RAIL, OR INTERMEDIATE RAIL BRACE POINTS, SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS. IF BRACING IS REQUIRED BUT NOT SHOWN, PROVIDE A MINIMUM OF HSS6x6X3/8 VERTICAL POST ATTACHED TO THE STRUCTURE WITH W8x24 BEAMS OR C6x13 CHANNELS SPANNING BETWEEN THE FRAMING MEMBERS. ALL MISCELLANEOUS STEEL MEMBERS REQUIRED TO ATTACH RAILS AT THE RAIL BRACE POINTS SHALL BE SUPPLIED BY THE ELEVATOR SUPPLIER. ELEVATOR MACHINE BEAM OR SHIVE BEAM LOADS SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS. LOADS AND LOAD LOCATIONS VARYING FROM THE LOADS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED WITH THE STRUCTURAL ENGINEER OF RECORD.

THE FRAMING AND INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS IS BASED ON:
ELEVATOR MODEL NO. PER SPEC. - REF ARC

GENERAL SUBGRADE NOTES AND TYP DETAILS
S-013
FOR BLUEBEAM LABEL/INDOOR:

0"
1"

GENERAL FOUNDATION NOTES:

1. THE FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED ON THE GEOTECHNICAL INVESTIGATION REPORT AS FOLLOWS:
   GEOTECHNICAL CONSULTANT: UES PROFESSIONAL SOLUTIONS, LLC.
   GEOTECHNICAL REPORT NUMBER: H251673-2
   GEOTECHNICAL REPORT LOCATION: 14705 WOODFOREST BOULEVARD HOUSTON, TEXAS, 77015
   DATE OF REPORT: 11/07/2025
2. ALL RECOMMENDATIONS THEREIN THAT RELATE TO THE WORK SHOWN ON THESE DRAWINGS SHALL BE USED. FOR ANY CONFLICTS BETWEEN THE GEOTECHNICAL REPORT AND THESE DRAWINGS, THE GC SHALL ISSUE A REQUEST FOR INFORMATION/CLARIFICATION.
3. GEOTECHNICAL REPORT IS AVAILABLE TO THE GENERAL CONTRACTOR UPON REQUEST TO THE OWNER. THE INFORMATION INCLUDED THEREIN MAY BE USED BY THE GENERAL CONTRACTOR FOR HIS GENERAL INFORMATION ONLY. THE ARCHITECT AND ENGINEER WILL NOT BE RESPONSIBLE FOR THE ACCURACY OR APPLICABILITY OF SUCH DATA THEREIN.
4. PREPARED GRADE AREA UNDER ALL BUILDING SLABS AND GRADE BEAMS SHALL BE COVERED WITH A 15 MIL WATER VAPOR BARRIER MEETING THE REQUIREMENTS OF ASTM E 1745 (LATEST EDITION), CLASS A OR BETTER WITH MAXIMUM WATER PERMEANCE OF 0.01 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96. THE BARRIER/BARRIER/MEMBRANE SHALL BE INSTALLED AND LAPPED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM E1643 (LATEST EDITION). PENETRATIONS SHALL BE SEALED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
5. WHERE VOID FORMS ARE REQUIRED, THESE FORMS SHALL BE CAPABLE OF SUPPORTING THE WEIGHT OF THE WET CONCRETE AND REINFORCEMENT. AFTER PLACEMENT ON THE SUBGRADE, THE FORMS SHALL BE TAPED AT ALL JOINTS. 1/8" THICK HARDBOARD SHALL BE LAID OVER THE TOP OF THE VOID FORMS PRIOR TO PLACEMENT OF THE REINFORCEMENT, AT LARGE AREAS AS REQUIRED. VOID FORMS SHALL BE SECURED TO THE SUBGRADE PER MANUFACTURER'S RECOMMENDATIONS. VOID FORMS SHALL BE WAX COATED FOR MOISTURE PROTECTION, RECTANGULAR IN PROFILE, AND EQUAL TO THE WIDTH OF THE ADJACENT GRADE BEAM. SOIL RETAINERS ARE REQUIRED, GRADE BEAMS TO BE FORMED EACH SIDE.

EARTHWORK STRUCTURAL TESTING AND INSPECTIONS:

1. UNLESS NOTED OTHERWISE BY THE OWNER OR ARCHITECT, THE GENERAL CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER OR OTHER AUTHORIZED INSPECTOR DURING EARTHWORK OPERATIONS, AND KEEP A COMPETENT TRAINED TECHNICIAN ASSIGNED TO THE PROJECT ON SITE DURING OPERATIONS. SERVICES PROVIDED SHALL INCLUDE:
   A. OBSERVE STRIPPING OPERATIONS AND EVALUATE THE REQUIRED STRIPPING DEPTH DURING THESE OPERATIONS.
   B. OBSERVE PROOFROLLING OPERATIONS AFTER SITE STRIPPING AND DETERMINE IF ANY SOFT SPOTS NEED TO BE UNDERCUT TO FIRM SOILS, REPLACED WITH SELECT FILL AND RECOMPACTED.
   C. VERIFY THAT THE SUBGRADE IS SCARIFIED, MOISTURE CONDITIONED, AND LIME STABILIZED (IF REQUIRED) PER SUBGRADE PREPARATION.
   D. THE SELECT FILL PAD MATERIAL SHALL BE TESTED FOR ACCEPTABILITY AND A MOISTURE DENSITY CURVE SHALL BE ESTABLISHED. SELECT FILL MATERIAL SHALL BE AS INDICATED ON SUBGRADE PREPARATION.
   E. VERIFY THAT THE SELECT FILL IS PLACED IN EIGHT INCH LOOSE LIFTS AND COMPACTED PER SUBGRADE PREPARATION.
   F. SELECT FILL MATERIAL SHALL BE TESTED DURING PLACEMENT OF EACH LIFT FOR THE ATTERBERG LIMITS IN ACCORDANCE WITH ASTM D4318-98 METHOD B "STANDARD TEST METHOD FOR LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS" TO VERIFY THAT THE SELECT FILL MATERIAL IS IN ACCORDANCE WITH THE ORIGINALLY APPROVED SELECT FILL MATERIAL. PROVIDE TESTS PER SUBGRADE PREPARATION.
   G. PROVIDE FIELD MOISTURE TESTS FOR THE FULL DEPTH OF THE PAD PER SUBGRADE PREPARATION.
   H. OBSERVE THE EXCAVATION DAILY AND ENSURE THAT THE CONTRACTOR MAINTAINS A CLEAN EXCAVATION THAT IS FREE OF WATER 100% OF THE TIME. CONTRACTOR SHALL PROVIDE PUMPS AS REQUIRED TO REMOVE WATER AT ALL TIMES.
   J. OBSERVE GRADING OPERATIONS TO ENSURE THAT PROPER DRAINAGE AWAY FROM THE BUILDING PAD IS PROVIDED.

SUBGRADE PREPARATION:

1. THE CONTRACTOR SHALL READ THE GEOTECHNICAL REPORT AND BE THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATION GIVEN THEREIN. ALL SUBGRADE PREPARATION, FILL, FILL PLACEMENT, AND FOUNDATION CONSTRUCTION SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE STRUCTURAL DOCUMENTS AND THE GEOTECHNICAL REPORT, AND SHALL BE OBSERVED, TESTED, AND APPROVED BY THE PROJECT'S GEOTECHNICAL-ENGINEER-OF-RECORD (GER) PRIOR TO PROCEEDING WITH FOUNDATION CONSTRUCTION.
2. SITE PREPARATION FOR THE BUILDING PAD SHALL CONSIST OF THE REMOVAL OF EXISTING PAVEMENT, TOPSOIL, VEGETATION, ORGANIC MATTER, AND OTHER DEBRIS/UNSUITABLE SURFACE MATERIAL AS NECESSARY TO PROVIDE THE REQUIRED AMOUNT OF FILL UNDER THE BUILDING AND EXTENDING OUT BEYOND THE PERIMETER OF THE BUILDING AS SHOWN IN THE SITE PREPARATION DETAIL. THE EXPOSED SUREFACE SHOULD BE SACRIFICED AN ADDITIONAL DEPTH OF 6 INCHES. PROPER SITE DRAINAGE SHOULD BE MAINTAINED DURING CONSTRUCTION SO THAT PONDING OF SURFACE RUNOFF DOES NOT OCCUR AND CAUSE CONSTRUCTION DELAYS AND/OR INHIBIT SITE ACCESS.
3. THE SUBGRADE SHALL BE PROOFROLLED WITH A HEAVY, RUBBER-TIRED VEHICLE (STATIC WEIGHT OF AT LEAST 20 TONS AND WITH TIRE PRESSURES OF AT LEAST 90 PSI). THE CONTRACTOR SHALL MAKE AT LEAST TWO COMPLETE PASSES OVER THE AREA WITH THE SECOND PASS PERPENDICULAR TO THE FIRST PASS. AREAS OF THE SUBGRADE THAT ARE OBSERVED TO BE SOFT OR WEAK SHALL BE OVEREXCAVATED AND REPLACED WITH PROPERLY COMPACTED SOILS EXHIBITING SIMILAR CLASSIFICATION, MOISTURE CONTENT, AND DENSITY AS THE ADJACENT IN-SITU SOILS. PROOFROLLING SHOULD BE PERFORMED UNDER THE DIRECT OBSERVATION OF THE GEOTECHNICAL ENGINEER OR HIS/HER REPRESENTATIVE.
4. PREPARE THE BUILDING SUBGRADE SOILS IN DIRECT ACCORDANCE WITH THE RECOMMENDATIONS LISTED IN THE "EARTHWORK" AND "FLOOR SLABS" SECTIONS OF THE GEOTECHNICAL REPORT. SUBGRADE SHALL BE SCARIFIED AND MOISTURE CONDITIONED TO A DEPTH OF SIX (6) INCHES AND THEN RECOMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN OPTIMUM AND +4 PERCENT OF THE OPTIMUM MOISTURE CONTENT. PROVIDE A MINIMUM OF FOUR (4) FIELD DENSITY TESTS PER LIFT OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER. IF WET WEATHER CONDITIONS ARE ENCOUNTERED AND WILL NOT ALLOW FOR ADEQUATE SUBGRADE COMPACTION EFFORTS, THEN THE SUBGRADE SHALL BE LIME STABILIZED WITH 6 TO 8 PERCENT BY VOLUME HYDRATED LIME IN ACCORDANCE WITH THE LIME ASSOCIATION RECOMMENDATIONS. THE OPTIMUM LIME CONTENT SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION BY A LIME SERIES TEST TO DETERMINE THE REQUIRED OPTIMUM LIME CONTENT NECESSARY TO ACHIEVE A pH OF 12.4 WHILE ACHIEVING A PLASTICITY INDEX OF LESS THAN 20. PRIOR TO PROCEEDING WITH THE SELECT FILL PLACEMENT, THE LIME STABILIZED SUBGRADE SHALL BE TESTED AND APPROVED BY THE TESTING LABORATORY.
5. SURFACE SANDIER/SILTIER SOILS. THE SANDIER/SILTIER SOILS ENCOUNTERED AT AND NEAR THE GROUND SURFACE AT THIS SITE ARE VERY SUSCEPTIBLE TO CHANGES IN MOISTURE. THE PRESENCE OF SURFACE WATER DUE TO PRECIPITATION OR GROUNDWATER MAY RESULT IN A DECREASE IN THE ABILITY TO COMPACT AND WORK WITH THE SOIL. IT IS COMMON FOR THESE SOILS TO PUMP WHEN SUBJECTED TO HIGH LEVELS OF MOISTURE. IN ADDITION, THESE SOILS LOCATED AT AND NEAR THE GROUND SURFACE WILL ALLOW SURFACE WATER TO INFILTRATE UNTIL THE WATER BECOMES PERCHED ON A LESS PERMEABLE LAYER AT DEPTH. AS SUCH, CONSTRUCTION DIFFICULTIES SHOULD BE ANTICIPATED, ESPECIALLY DURING THE WET SEASON OR IMMEDIATELY AFTER RAIN EVENTS. ALTHOUGH HAVING A THIN LAYER OF NON PLASTIC OR LOW PLASTICITY SOILS OVERLYING COHESIVE SOILS IS TYPICAL OF THIS GEOLOGIC REGION, OUR EXPERIENCE SUGGESTS THAT THE LOCAL CONTRACTORS FIND THESE MATERIALS TROUBLESOME AND CAN OFTEN BE THE SOURCE OF CHANGE ORDERS, CONSTRUCTION DELAYS, AND BUDGET OVER RUNS. SOILS OF THIS TYPE ARE ESPECIALLY PRONE TO REQUIRING THE IMPLEMENTATION OF WET WEATHER/SOFT SUBGRADE RECOMMENDATIONS PROVIDED IN THIS REPORT.
6. MAINTENANCE OF SUBGRADE DURING CONSTRUCTION. WHILE THE EXPOSED SUBGRADE IS EXPECTED TO REMAIN RELATIVELY STABLE INITIALLY, UNSTABLE CONDITIONS MAY ARISE DURING GENERAL CONSTRUCTION ACTIVITIES, PARTICULARLY IF THE SOIL IS EXPOSED TO WET WEATHER CONDITIONS AND REPETITIVE CONSTRUCTION TRAFFIC. THE USE OF LIGHTER CONSTRUCTION EQUIPMENT CAN HELP MINIMIZE DISTURBANCE TO THE SUBGRADE. IN THE EVENT OF UNSTABLE CONDITIONS, STABILIZATION MEASURES WILL BE NECESSARY. AFTER GRADING IS COMPLETED, IT'S CRUCIAL TO MAINTAIN THE MOISTURE CONTENT OF THE SUBGRADE BEFORE PROCEEDING WITH PAVEMENT/BUILDING SLAB CONSTRUCTION. MINIMIZING CONSTRUCTION TRAFFIC OVER THE FINISHED SUBGRADE IS ADVISABLE. IF THE SUBGRADE BECOMES FROZEN, DESICCATED, SATURATED, OR DISTURBED, THE AFFECTED MATERIAL SHOULD EITHER BE REMOVED OR TREATED BY SCARIFICATION, MOISTURE CONDITIONING, AND RECOMPACTION BEFORE PAVEMENT/BUILDING SLAB CONSTRUCTION BEGINS. UES SHOULD BE RETAINED TO OBSERVE EARTHWORK AND TO PERFORM NECESSARY TESTS AND OBSERVATIONS DURING SUBGRADE PREPARATION.
8. SOFT AND/OR WET SURFACE SOILS MAY BE ENCOUNTERED DURING CONSTRUCTION, ESPECIALLY FOLLOWING PERIODS OF WET WEATHER. WET OR SOFT SURFACE SOIL CAN PRESENT DIFFICULTIES FOR COMPACTION AND OTHER CONSTRUCTION EQUIPMENT. IF SPECIFIED COMPACTION CANNOT BE ACHIEVED DUE TO SOFT OR WET SURFACE SOILS, ONE OF THE FOLLOWING CORRECTIVE MEASURES WILL BE REQUIRED:
   1. REMOVAL OF THE WET AND/OR SOFT SOIL AND REPLACEMENT WITH SELECT FILL,
   2. CHEMICAL TREATMENT OF THE WET AND/OR SOFT SOIL TO IMPROVE THE SUBGRADE STABILITY, OR
   3. IF ALLOWED BY THE SCHEDULE, DRYING BY NATURAL MEANS.

   CHEMICAL TREATMENT IS USUALLY THE MOST EFFECTIVE WAY TO IMPROVE SOFT AND/OR WET SURFACE SOILS. UES SHOULD BE CONTACTED FOR ADDITIONAL RECOMMENDATIONS IF CHEMICAL TREATMENT IS PLANNED DUE TO WET AND/OR SOFT SOILS DURING CONSTRUCTION. THE TREATMENT DEPTH AND CHEMICAL REAGENT TYPE AND APPLICATION RATE DEPEND ON THE SITE CONDITION DURING CONSTRUCTION.
7. THE FINAL BUILDING PAD SHALL BE TESTED AND APPROVED BY THE PROJECT'S GER PRIOR TO INSTALLATION OF ANY FOUNDATION AND/OR SLAB-ON-GRADE RELATED CONSTRUCTION. IF THE BUILDING PAD HAS BEEN INSTALLED MORE THAN TWO MONTHS PRIOR TO THE PLACEMENT OF THE VAPOR BARRIER, PROVIDE FIELD MOISTURE TESTS FOR THE FULL DEPTH OF THE PAD 96 HOURS PRIOR TO PLACEMENT OF THE WATER VAPOR BARRIER TO ENSURE THAT THE FILL MOISTURE CONTENT HAS BEEN MAINTAINED PRIOR TO CONCRETE PLACEMENT. MOISTURE CONTENTS SHALL BE TAKEN AT 12 INCH VERTICAL INTERVALS WITH A MINIMUM OF TWO TESTS PER BORING AT A RATE OF ONE (1) BORING FOR EVERY 2,500 SQUARE FEET OF PAD WITH A MAXIMUM OF TEN (10). IF THE PAD TESTS SHOW MOISTURE CONTENT OUT OF THE SPECIFIED RANGES, THE TOP SIX (6) INCHES TO ONE FOOT OF MATERIAL SHALL BE REWORKED, MOISTURE CONDITIONED AND RECOMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN OPTIMUM AND +2 PERCENT OF THE OPTIMUM MOISTURE CONTENT FOR SELECT FILL.
8. CONTRACTOR SHALL MAINTAIN A CLEAN EXCAVATION THAT IS FREE OF WATER 100% OF THE TIME. CONTRACTOR SHALL PROVIDE PUMPS AS REQUIRED TO REMOVE ANY WATER AT ALL TIMES.
9. BACKFILL AGAINST THE OUTSIDE FACE OF THE GRADE BEAMS SHOULD CONSIST OF SELECT FILL USED TO PREPARE THE BUILDING PAD. THE SELECT FILL SHOULD BE UNIFORMLY COMPACTED TO AT LEAST 95 PERCENT OF THE STANDARD EFFORT (ASTM D 698) MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT.
10. A MINIMUM OF 5'-6" OF SELECT FILL MATERIAL IS REQUIRED UNDER THE FLOOR SLAB, AND SHALL EXTEND A MINIMUM OF 10'-0" BEYOND THE BUILDING PERIMETER. THE FINAL EXTERIOR GRADE ADJACENT TO THE STRUCTURE SHOULD BE SLOPED TO PROMOTE EFFECTIVE DRAINAGE AWAY FROM THE STRUCTURE. EXISTING FILL WAS ENCOUNTERED IN ALL BORING LOCATIONS B-06 THROUGH B-18, AND B-19. EXISTING FILL EXTENDED TO A DEPTH OF UP TO ABOUT 2 TO 4-FEET BGS. IT IS WORTH NOTING THAT EXISTING FILL MAY ALSO BE PRESENT, POTENTIALLY AT GREATER DEPTHS, IN OTHER PARTS OF THE SITE. ACCURATELY DELINEATING FILL SOILS, ESPECIALLY THOSE RESEMBLING NATIVE SOILS, BASED ON DISCRETE TEST BOREHOLES IS CHALLENGING, AS SUCH, THE RECORDED FILL DEPTHS SHOULD BE CONSIDERED AS ESTIMATES AND MAY SLIGHTLY DEVIATE FROM THE ACTUAL FILL DEPTHS. ALTHOUGH NOT ENCOUNTERED IN THE BORINGS FOR THIS PROJECT, UNCONTROLLED FILLS MAY CONTAIN TRASH, DEBRIS, CONCRETE RUBBLE, CONSTRUCTION DEBRIS, BOULDERS, AND OTHER UNSUITABLE MATERIALS. IN PAVEMENT AREAS, THE EXISTING FILL AT THE PAVEMENT SUBGRADE LEVEL SHOULD BE PROOF-ROLLED WITH A HEAVY ROLLER TO DETECT POSSIBLE WEAK AREAS. ANY WEAK SOILS IDENTIFIED AS PART OF THE PROOF-ROLLING PROCESS SHOULD BE REMOVED AND REPLACED WITH WELL-COMPACTED SOIL AS PER THE SOIL REPORT. ANY AND ALL EXISTING FILL WITHIN THE BUILDING PAD MUST BE REMOVED AND REPLACED WITH PROPER MOISTURE IMPROVEMENTS AND COMPACTION AS IS REQUIRED FOR THE BUILDING PAD.
11. EXERCISE CARE IN PLACEMENT AND COMPARCTION OF FILL IN ALL LEAVE-OUTS. ALL FILL SHALL BE PLACED IN LOOSE LIFTS AND COMPACTED AT ELEVATED MOISTURE CONTENT AS DETAILED IN THE PROJECT 'S GEOTECHNICAL REPORT. ANY REINFORCING SHALL BE APPROPRIATELY MANIPULATED TO ENSURE PROPER COMPACTION. VAPOR BARRIER SHALL BE SUITABLY PLACED AND LAPPED.

SITE DRAINAGE:

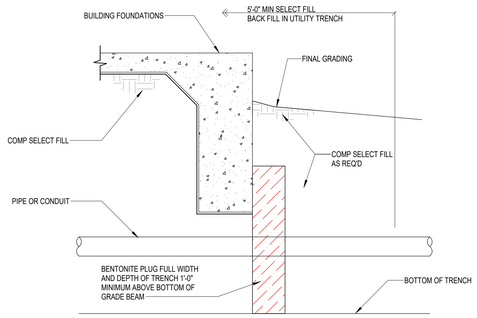
1. THE SITE SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AND SLABS. WATER SHALL NOT BE ALLOWED TO POND ADJACENT TO THE FOUNDATION.
2. WATER FROM ROOF DRAINS AND DOWNSPOUTS SHALL BE COLLECTED AND PIPED AWAY FROM THE BUILDING.
3. TREES AND VEGETATION SHALL NOT BE ALLOWED WITHIN A DISTANCE EQUAL TO THREE QUARTERS THEIR ULTIMATE HEIGHT AWAY FROM THE BUILDING.
4. EVERY ATTEMPT SHOULD BE MADE TO LIMIT THE EXTREME WETTING OR DRYING OF THE SUBSURFACE SOILS BECAUSE SWELLING AND SHRINKAGE OF THESE SOILS WILL RESULT. STANDARD CONSTRUCTION PRACTICES OF PROVIDING GOOD SURFACE WATER DRAINAGE SHOULD BE USED. A POSITIVE SLOPE OF THE GROUND AWAY FROM ANY FOUNDATION SHOULD BE PROVIDED. DITCHES OR SWALES SHOULD BE PROVIDED TO CARRY THE RUN-OFF WATER BOTH DURING AND AFTER CONSTRUCTION. STORMWATER RUNOFF SHOULD BE COLLECTED BY GUTTERS AND DOWNSPOUTS AND SHOULD DISCHARGE AWAY FROM THE BUILDINGS.

   ROOT SYSTEMS FROM TREES AND SHRUBS CAN DRAW A SUBSTANTIAL AMOUNT OF WATER FROM THE CLAY SOIL AT THIS SITE, CAUSING THE CLAYS TO DRY AND SHRINK. THIS COULD CAUSE SETTLEMENT BENEATH GRADE-SUPPORTED SLABS SUCH AS FLOORS, WALKS AND PAVING. TREES AND LARGE BUSHES SHOULD BE LOCATED A DISTANCE EQUAL TO AT LEAST ONE-HALF THEIR ANTICIPATED MATURE HEIGHT AWAY FROM GRADE SLABS.

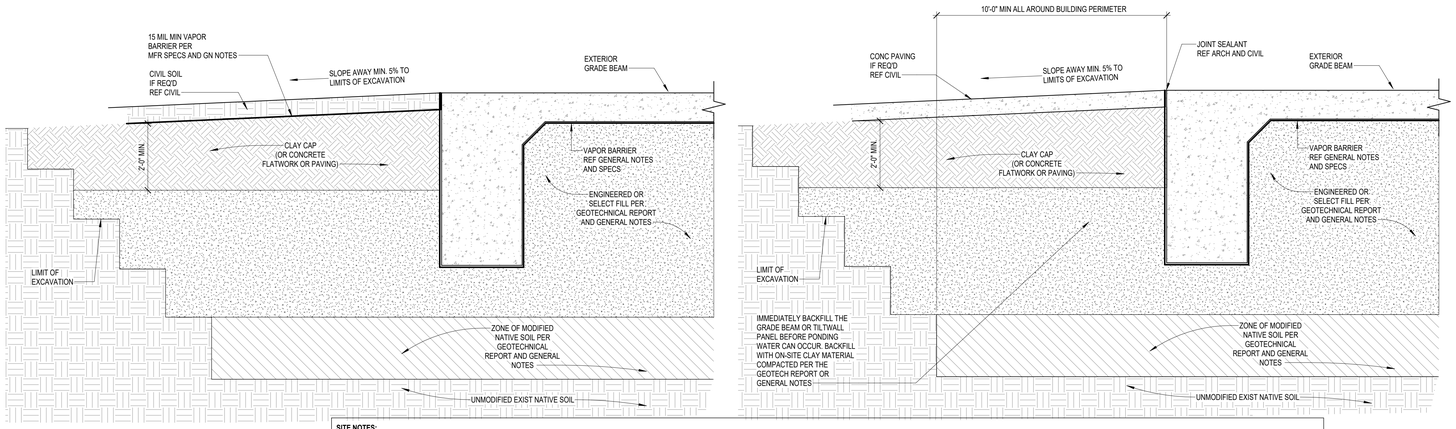
   LAWN AREAS SHOULD BE WATERED MODERATELY, WITHOUT ALLOWING THE CLAY SOIL TO BECOME TOO DRY OR TOO WET.

NOTES:

1. PIPES OR CONDUITS SHALL BE PLACED IN THE SELECT FILL MATERIAL. ALL PENETRATIONS TO THE VAPOR BARRIER SHALL BE SEALED PER THE MANUFACTURER'S RECOMMENDATIONS
2. BACKFILL DIRECTLY AROUND PIPE SHALL BE CEMENT STABILIZED SAND (1-SACK MIX). THE REMAINDER OF THE TRENCH INFILL MAY BE SELECT FILL ONLY IF IT CAN BE COMPACTED AND TESTED BY THE TESTING LAB; OTHERWISE, THE GC SHALL USE CEMENT STABILIZED SAND



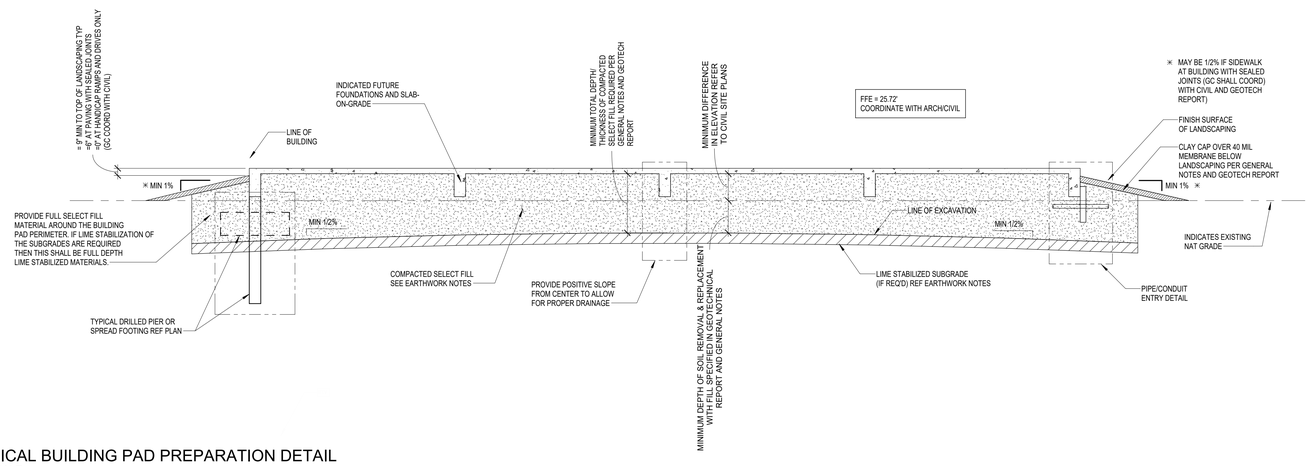
1 PIPE/CONDUIT ENTRY DETAIL
NO SCALE



SITE NOTES:

1. ROOF RUNOFF AND SURFACE DRAINAGE SHALL BE COLLECTED AND DISCHARGED AWAY FROM THE STRUCTURES TO PREVENT WETTING OF THE FOUNDATION SOILS. ROOF GUTTERS SHALL BE INSTALLED AND CONNECTED TO DOWNSPOUTS AND PIPES DIRECTING ROOF RUNOFF AT LEAST 10 FEET AWAY FROM THE BUILDINGS, OR DISCHARGED ON TO POSITIVELY SLOPED IMPERVIOUS FLATWORK SUCH AS SIDEWALKS AND /OR PAVING AREAS.
2. SPRINKLER MAINS AND SPRAY HEADS SHALL BE LOCATED AT LEAST 5 FEET AWAY FROM THE BUILDING SUCH THAT THEY CANNOT BECOME A POTENTIAL POINT SOURCE OF WATER DIRECTLY ADJACENT TO THE BUILDING. WATERING OF VEGETATION SHALL BE PERFORMED IN A TIMELY AND CONTROLLED MANNER AND PROLONGED WATERING SHALL BE AVOIDED. LANDSCAPED IRRIGATION ADJACENT TO THE FOUNDATION STRUCTURE SHALL BE MINIMIZED OR ELIMINATED. SPECIAL CARE SHALL BE TAKEN SUCH THAT UNDERGROUND UTILITIES DO NOT DEVELOP LEAKS WITH TIME.

3 TYPICAL EXTERIOR GB BACKFILL DETAIL
NO SCALE



4 TYPICAL BUILDING PAD PREPARATION DETAIL
NO SCALE

Plot Stamp:
1/8/2026 2:16:43 PM

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Kubala ENGINEERS
www.kubalaengineers.com
TBPE Firm No. F-23612
TX: 832.541.1567 / 2812

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADDENDUM 05	01/08/2026

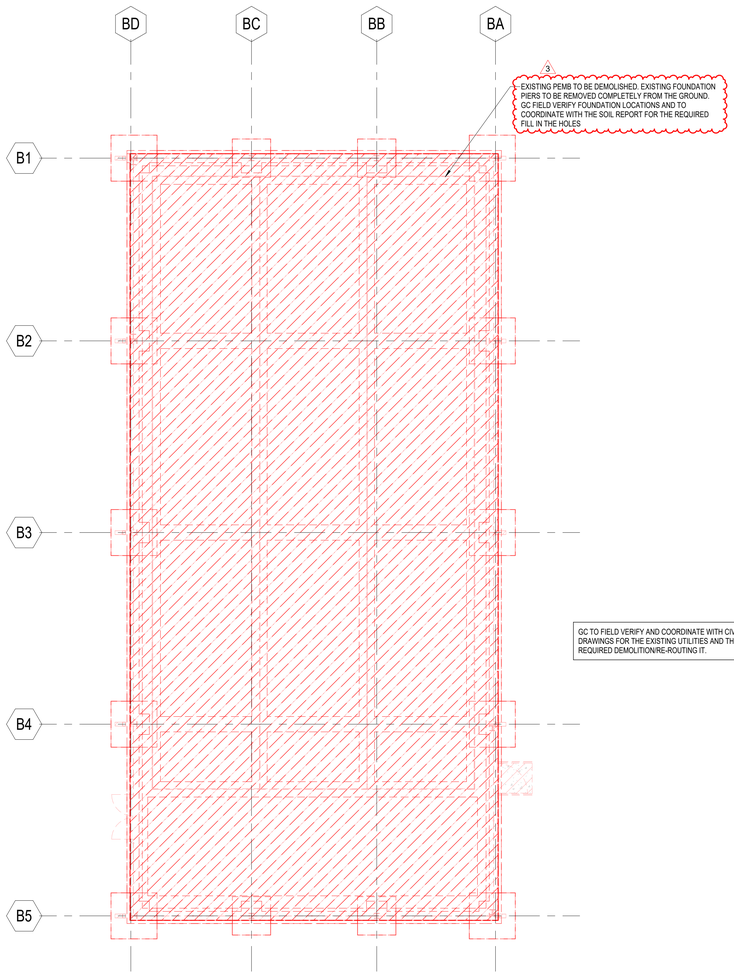
CHECKED BY: SI
DRAWN BY: CML

GENERAL SUBGRADE NOTES AND TYP DETAILS

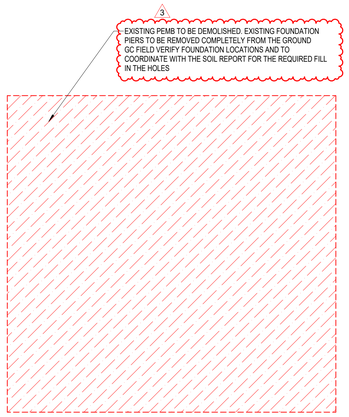
S-013

0"
1"

FOUNDATION DEMO PLAN - AREA A
SD-101A
FOR BLUEBEAM LABELING/DOOR:



GC TO FIELD VERIFY AND COORDINATE WITH CIVIL/MEP DRAWINGS FOR THE EXISTING UTILITIES AND THE REQUIRED DEMOLITION/RE-ROUTING IT.



1 FOUNDATION DEMO PLAN - AREA A
1/8" = 1'-0"

EXISTING STRUCTURE AND CONDITIONS:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT. CONTRACTOR IS TO NOTIFY ENGINEER OF QUESTIONABLE EXISTING STRUCTURAL COMPONENTS (MASONRY WALLS, STEEL BEAMS AND LINTELS, EXPOSED FOUNDATIONS, ETC.) AND FRAMING CONNECTIONS WHEN ENCOUNTERED.
2. GRIDLINES ARE SHOWN ON THE STRUCTURAL DRAWINGS AND THESE REFLECT ASSUMED ARCHITECTURAL AND STRUCTURAL DIMENSIONS. IN MOST CASES, GRID LINES COINCIDE WITH EXISTING COLUMN AND PILASTER CENTERLINES. IF ACTUAL FIELD DIMENSIONS VARY, NOTIFY ARCHITECT OR ENGINEER.
3. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING STRUCTURAL COMPONENTS THAT WILL BE CONNECTED TO NEW FRAMING PRIOR TO STEEL FABRICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS AND COORDINATE THESE DIMENSIONS WITH THE STEEL FABRICATOR PRIOR TO STEEL FABRICATION TO ENSURE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR ENGINEER OF DISCREPANCIES.
4. CONTRACTOR IS TO FURNISH ENGINEER A PROPOSED SEQUENCE OF EXISTING COMPONENT REMOVAL. METHODS OF SAW CUTTING, TEMPORARY SHORING AND OTHER PERTINENT TASKS RELATING TO EXISTING COMPONENT REMOVAL ARE TO BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND TO VERIFY THAT WORK IS IN GENERAL CONFORMANCE.
5. ANY MODIFICATIONS TO THE PLANS AND SPECIFICATIONS THAT ARE NECESSARY AS A RESULT OF FIELD VERIFICATIONS PERFORMED BY THE CONTRACTOR SHALL BE IMMEDIATELY SUBMITTED TO THE ENGINEER FOR APPROVAL. UPON APPROVAL, THE CONTRACTOR SHALL INCORPORATE THESE MODIFICATIONS INTO THE SHOP DRAWINGS PRIOR TO SUBMITTING THEM TO THE ENGINEER.
6. THE CONTRACTOR SHALL BUILD APPROPRIATE CONTINGENCIES INTO THE PROJECT'S BUDGET AND SCHEDULE TO ACCOUNT FOR MODIFICATIONS TO STRUCTURAL FRAMING THAT MAY BE NECESSARY TO ACCOMMODATE EXISTING CONDITIONS THAT ARE DISCOVERED TO BE DIFFERENT FROM THOSE INDICATED ON THESE PLANS.
7. REFER TO THE GEOTECHNICAL REPORT FOR ANY DEWATERING MEASURES NECESSARY FOR NEW CONSTRUCTION TO PROCEED IN DRY CONDITIONS.
8. WHERE EXCAVATION BELOW THE BOTTOM OF THE PERIMETER GRADE BEAM OF THE EXISTING BUILDING IS REQUIRED FOR NEW CONSTRUCTION ADJACENT TO SLAB-ON-GRADE AREAS OF THE EXISTING BUILDING, PROVIDE A POSITIVE METHOD, SUCH AS SHEET METAL PILING OR OTHER SOIL RETENTION METHOD, TO PREVENT SOIL FROM CAVING INTO THE NEW EXCAVATION AND UNDERMINING THE EXISTING SLAB-ON-GRADE.
   A. THE DESIGN OF THE RETENTION METHOD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
   B. SUBMIT RETENTION PLAN TO ARCHITECT FOR INFORMATION.
9. EXISTING CONSTRUCTION HAS NOT BEEN VERIFIED FOR CONFORMANCE WITH REQUIREMENTS OF APPLICABLE BUILDING CODE EXCEPT FOR AREAS DIRECTLY AFFECTED BY MODIFICATIONS INDICATED HERE-IN.
10. THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION PROCEDURES AND SEQUENCES AND SHALL PROVIDE ADEQUATE SHORING AND TEMPORARY BRACING FOR EXISTING CONSTRUCTION.
11. DRILLING INTO EXISTING CONCRETE SHALL BE PERFORMED IN A MANNER WHICH AVOIDS DAMAGE TO EXISTING REINFORCEMENT. BAR DETECTION METHODS SHALL BE USED TO LOCATE REINFORCEMENT PRIOR TO DRILLING.
12. THE FACE OF ALL CONCRETE SURFACES CUT FROM EXISTING CONCRETE SHALL BE THOROUGHLY CLEANED. ALLOW SURFACE TO COMPLETELY DRY, COAT WITH AN APPROVED BONDING AGENT AND FINISH WITH AN APPROVED PATCHING COMPOUND. EXPOSED REINFORCEMENT SHALL BE CUT OFF, GROUND FLUSH TO THE NEW CONCRETE SURFACE AND FINISHED WITH AN EPOXY PAINT.
13. WHERE EXISTING CONCRETE REINFORCEMENT IS TO BE REUSED IN PLACE, THE CONCRETE SHALL BE REMOVED IN A MANNER WHICH MINIMIZES DAMAGE TO THE REINFORCEMENT. DAMAGED REINFORCEMENT SHALL BE REPLACED BY A METHOD APPROVED BY THE ARCHITECT.

DEMOLITION NOTES:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT. THE GENERAL CONTRACTOR SHALL VERIFY THE LOCATION AND SIZE OF ALL STRUCTURAL MEMBERS SHOWN ON THE PLANS PRIOR TO BEGINNING ANY DEMOLITION WORK.
2. **THE GC SHALL NOT DEMOLISH ANY WALLS, COLUMNS, FRAMING, OR OPENINGS THAT ARE NOT SHOWN AND NOTED TO BE DEMOLISHED ON THE STRUCTURAL DEMO PLANS, REGARDLESS IF THESE ITEMS ARE SHOWN TO BE DEMOLISHED ON THE ARCHITECTURAL DEMO PLANS, WITHOUT STRUCTURAL EOR REVIEW & APPROVAL.**
3. THE GC SHALL VERIFY THAT ANY WALL, MASONRY OR OTHERWISE, TO BE DEMOLISHED IS A NON-LOAD BEARING WALL PRIOR TO BEGINNING DEMOLITION. IF WALL IS FOUND TO BE LOAD BEARING GC IS TO CONTACT THE ARCHITECT AND THE ENGINEER BEFORE PROCEEDING.
4. THE GC SHALL SUBMIT PREDEMOLITION PHOTOGRAPHS OR VIDEOS SHOWING EXISTING CONDITIONS FOR ANY EXISTING WALLS OR NEW OPENINGS IN EXISTING WALLS,FLOORS, AND/OR ROOFS SCHEDULED TO BE DEMOLISHED FOR THE STRUCTURAL EOR'S REVIEW AND APPROVAL PRIOR TO THE START OF DEMOLITION. PHOTOS MUST SHOW EXISTING CONDITIONS OF ADJOINING CONSTRUCTION AND SITE IMPROVEMENTS, INCLUDING FINISH SURFACES, THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSED BY SALVAGE AND DEMOLITION OPERATIONS. THE LOCATIONSOF PRE-DEMOLITION PHOTOGRAPHS & VIDEOS SHALL BE IDENTIFIED ON AN ACCOMPANYING PLAN VIEW.
5. CARE SHOULD BE TAKEN DURING DEMOLITION TO AVOID DAMAGING ANY STRUCTURAL ELEMENTS THAT HAVE BEEN DESIGNATED TO REMAIN.
6. STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE.
7. THE GENERAL CONTRACTOR SHALL EMPLOY A DEMOLITION SUBCONTRACTOR WHO MEETS THE FOLLOWING REQUIREMENTS:
   A. A COMPANY WITH MINIMUM OF FIVE (5) YEARS OF SELECTIVE STRUCTURAL DEMOLITION EXPERIENCE OF SIMILAR SIZE, SCALE, AND COMPLEXITY OF THE DEMOLITION WORK INVOLVED IN THIS PROJECT. FURTHERMORE, THE SITE SUPERINTENDENT OR FOREMAN SHALL HAVE THE SAME REQUIRED EXPERIENCE.
   B. AT A MINIMUM, A DEMOLITION SUBCONTRACTOR SHALL HAVE A REPRESENTATIVE WHO HAS COMPLETED OSHA 30 TRAINING AND BE PRESENT ON SITE DURING ALL DEMOLITION ACTIVITIES.
   C. ANY DEMOLITION SUBCONTRACTORS WITH OSHA VIOLATIONS WITHIN THE PAST 5 YEARS OR ARE UNDER ACTIVE OSHA INVESTIGATIONS WILL NOT BE CONSIDERED QUALIFIED FOR STRUCTURAL DEMOLITION.
   D. IN CASES WHERE THE GENERAL CONTRACTOR WISHES TO EMPLOY MULTIPLE DEMOLITION SUBCONTRACTORS FOR VARIOUS DEMOLITION SCOPE, ALL DEMOLITION SUBCONTRACTORS SHALL MEET THE ABOVE QUALIFICATIONS.
8. THE STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE. THE GENERAL CONTRACTOR SHALL EMPLOY A DEMOLITION AND TEMPORARY SHORINGDELEGATED DESIGN ENGINEER WHO IS A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS AND SPECIALIZES IN DEMOLITION AND TEMPORARY STRUCTURES. THE DELEGATED DESIGN ENGINEER IS RESPONSIBLE FOR THE FOLLOWING:
   A. PROVIDE A LETTER STATING THAT THEY FULLY UNDERSTAND THE SCOPE OFWORK REQUIRED FROM ALL DISCIPLINES.
   B. SHORING PLANS AND DEMOLITION PLANS, WHICH INCLUDES THE SEQUENCE OF SHORING, SEQUENCE OF DEMOLITION, AND DURATION OF BOTH SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
   C. EXCAVATION SUPPORT AND PROTECTION SYSTEM PLANS, WHICH INCLUDES THE SEQUENCE OF SUPPORT & PROTECTION SYSTEM, SEQUENCE OF DEMOLITION, AND DURATION OF BOTH SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
   D. PERFORM PERIODIC SITE VISITS WHICH INCLUDE VARIOUS MILESTONES FOR THE DEMOLITION AND SHORING SUBCONTRACTORS AND SHALL PROVIDE OBSERVATION REPORT, PHOTOS, ETC. BASELINES SHALL BE SET PRIOR TO TEMPORARY SHORING AND SHORTLY AFTER TEMPORARY SHORING IS INSTALLED. MEASUREMENTS SHALL BE TAKEN AT MILESTONES.
9. AN ON-SITE PRECONSTRUCTION DEMOLITION MEETING IS REQUIRED PRIOR TO ANY DEMOLITION ACTIVITIES, WHICH MUST INCLUDE THE DELEGATED DESIGN ENGINEER, STRUCTURAL ENGINEER OF RECORD, ARCHITECT, OWNER, GENERAL CONTRACTOR, AND DEMOLITION SUBCONTRACTOR REPRESENTATIVES OVERSEEING DEMOLITION WORK PER NOTES 7& 8.
   A. THE PRECONSTRUCTION MEETING SHALL INCLUDE A SITE WALK TO GC SHALL HAVE REMOVED SUPERFICIAL/ARCHITECTURAL COVERINGS SO THAT STRUCTURE IS VISIBLE DURING SITE WALK.
10. THE GENERAL CONTRACTOR SHALL PROVIDE A "TWO-WEEK LOOK AHEAD" TO INDICATE UPCOMING AREAS WHERE DEMOLITION WORK IS SCHEDULED TO TAKE PLACE, SO ALL PARTIES ARE AWARE OF TIMELINE AND ANY COORDINATION WITH ARCHITECT AND CONSULTANTS CAN TAKE PLACE. THE HIGHLIGHTED PLAN SHOULD BE COMPLETED BY THE GENERAL CONTRACTOR (IN CONJUNCTION WITH THEIR DEMOLITION SUBCONTRACTOR) AND BE AVAILABLE FOR DISCUSSION AT THE WEEKLY OAC MEETING.

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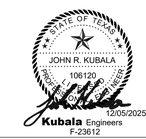
TX REG: No F-23612

Galena Park ISD

KEY PLAN
NORTH: PLAN = TRUE



12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI
DRAWN BY: CML

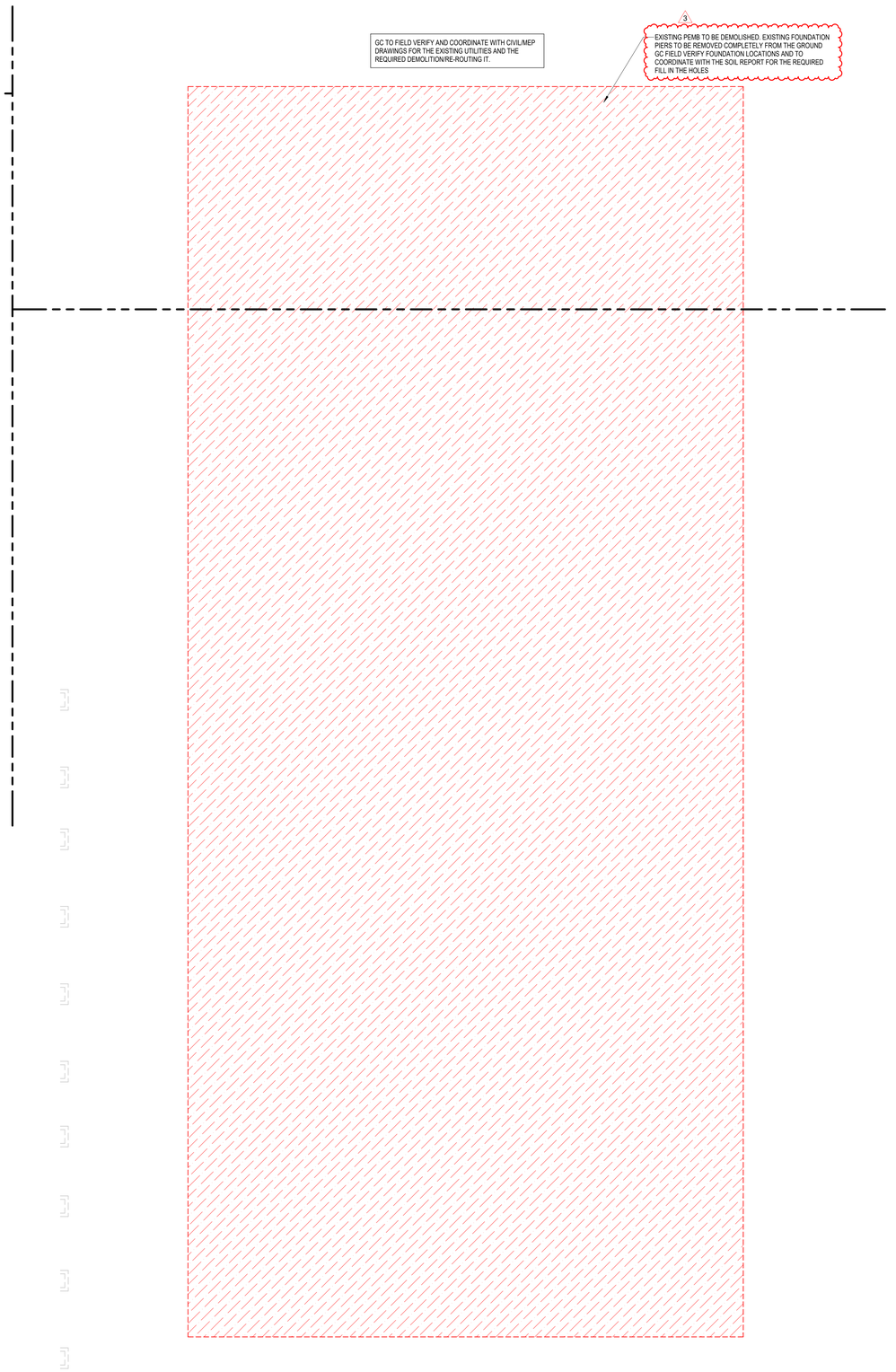
FOUNDATION DEMO PLAN - AREA A

SD-101A

Plot Stamp:
1/8/2026 2:16:44 PM

0"
1"

FOUNDATION DEMO PLAN - AREA B
SD-101B
FOR BLUEBEAM LABELING/DOOR:



1 FOUNDATION DEMO PLAN - AREA B
3/32" = 1'-0"

EXISTING STRUCTURE AND CONDITIONS:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT. CONTRACTOR IS TO NOTIFY ENGINEER OF QUESTIONABLE EXISTING STRUCTURAL COMPONENTS (MASONRY WALLS, STEEL BEAMS AND LINTELS, EXPOSED FOUNDATIONS, ETC.) AND FRAMING CONNECTIONS WHEN ENCOUNTERED.
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EXCELLENCE IN ALL FOR EVERY CHILD

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LICENSED PROFESSIONAL ENGINEER
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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI
DRAWN BY: CML

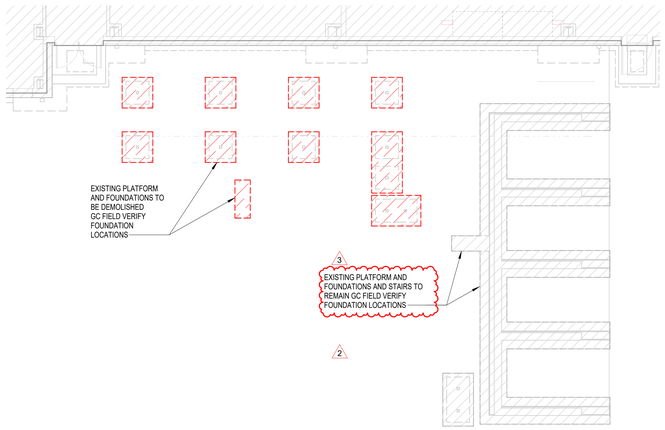
FOUNDATION DEMO PLAN - AREA B

SD-101B

Plot Stamp:
1/8/2026 2:16:45 PM

0"
1"

FOUNDATION DEMO PLAN - EXISTING MECH YARD
SD-101M
FOR BLUEBEAM LABEL/INDOOR:



1 FOUNDATION DEMO PLAN - CENTRAL PLANT
1/8" = 1'-0"

EXISTING STRUCTURE AND CONDITIONS:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT. CONTRACTOR IS TO NOTIFY ENGINEER OF QUESTIONABLE EXISTING STRUCTURAL COMPONENTS (MASONRY WALLS, STEEL BEAMS AND LINTELS, EXPOSED FOUNDATIONS, ETC.) AND FRAMING CONNECTIONS WHEN ENCOUNTERED.
2. GRIDLINES ARE SHOWN ON THE STRUCTURAL DRAWINGS AND THESE REFLECT ASSUMED ARCHITECTURAL AND STRUCTURAL DIMENSIONS. IN MOST CASES, GRID LINES COINCIDE WITH EXISTING COLUMN AND PILASTER CENTERLINES. IF ACTUAL FIELD DIMENSIONS VARY, NOTIFY ARCHITECT OR ENGINEER.
3. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING STRUCTURAL COMPONENTS THAT WILL BE CONNECTED TO NEW FRAMING PRIOR TO STEEL FABRICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING DIMENSIONS AND COORDINATE THESE DIMENSIONS WITH THE STEEL FABRICATOR PRIOR TO STEEL FABRICATION TO ENSURE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR ENGINEER OF DISCREPANCIES.
4. CONTRACTOR IS TO FURNISH ENGINEER A PROPOSED SEQUENCE OF EXISTING COMPONENT REMOVAL. METHODS OF SAW CUTTING, TEMPORARY SHORING AND OTHER PERTINENT TASKS RELATING TO EXISTING COMPONENT REMOVAL ARE TO BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND TO VERIFY THAT WORK IS IN GENERAL CONFORMANCE.
5. ANY MODIFICATIONS TO THE PLANS AND SPECIFICATIONS THAT ARE NECESSARY AS A RESULT OF FIELD VERIFICATIONS PERFORMED BY THE CONTRACTOR SHALL BE IMMEDIATELY SUBMITTED TO THE ENGINEER FOR APPROVAL. UPON APPROVAL, THE CONTRACTOR SHALL INCORPORATE THESE MODIFICATIONS INTO THE SHOP DRAWINGS PRIOR TO SUBMITTING THEM TO THE ENGINEER.
6. THE CONTRACTOR SHALL BUILD APPROPRIATE CONTINGENCIES INTO THE PROJECT'S BUDGET AND SCHEDULE TO ACCOUNT FOR MODIFICATIONS TO STRUCTURAL FRAMING THAT MAY BE NECESSARY TO ACCOMMODATE EXISTING CONDITIONS THAT ARE DISCOVERED TO BE DIFFERENT FROM THOSE INDICATED ON THESE PLANS.
7. REFER TO THE GEOTECHNICAL REPORT FOR ANY DEWATERING MEASURES NECESSARY FOR NEW CONSTRUCTION TO PROCEED IN DRY CONDITIONS.
8. WHERE EXCAVATION BELOW THE BOTTOM OF THE PERIMETER GRADE BEAM OF THE EXISTING BUILDING IS REQUIRED FOR NEW CONSTRUCTION ADJACENT TO SLAB-ON-GRADE AREAS OF THE EXISTING BUILDING, PROVIDE A POSITIVE METHOD, SUCH AS SHEET METAL PILING OR OTHER SOIL RETENTION METHOD, TO PREVENT SOIL FROM CAVING INTO THE NEW EXCAVATION AND UNDERMINING THE EXISTING SLAB-ON-GRADE.
   A. THE DESIGN OF THE RETENTION METHOD SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
   B. SUBMIT RETENTION PLAN TO ARCHITECT FOR INFORMATION.
9. EXISTING CONSTRUCTION HAS NOT BEEN VERIFIED FOR CONFORMANCE WITH REQUIREMENTS OF APPLICABLE BUILDING CODE EXCEPT FOR AREAS DIRECTLY AFFECTED BY MODIFICATIONS INDICATED HERE-IN.
10. THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION PROCEDURES AND SEQUENCES AND SHALL PROVIDE ADEQUATE SHORING AND TEMPORARY BRACING FOR EXISTING CONSTRUCTION.
11. DRILLING INTO EXISTING CONCRETE SHALL BE PERFORMED IN A MANNER WHICH AVOIDS DAMAGE TO EXISTING REINFORCEMENT. BAR DETECTION METHODS SHALL BE USED TO LOCATE REINFORCEMENT PRIOR TO DRILLING.
12. THE FACE OF ALL CONCRETE SURFACES CUT FROM EXISTING CONCRETE SHALL BE THOROUGHLY CLEANED. ALLOW SURFACE TO COMPLETELY DRY, COAT WITH AN APPROVED BONDING AGENT AND FINISH WITH AN APPROVED PATCHING COMPOUND. EXPOSED REINFORCEMENT SHALL BE CUT OFF, GROUND FLUSH TO THE NEW CONCRETE SURFACE AND FINISHED WITH AN EPOXY PAINT.
13. WHERE EXISTING CONCRETE REINFORCEMENT IS TO BE REUSED IN PLACE, THE CONCRETE SHALL BE REMOVED IN A MANNER WHICH MINIMIZES DAMAGE TO THE REINFORCEMENT. DAMAGED REINFORCEMENT SHALL BE REPLACED BY A METHOD APPROVED BY THE ARCHITECT.

DEMOLITION NOTES:

1. ALL EXISTING STRUCTURE SHOWN ON PLANS ARE BASED ON LIMITED EXISTING DRAWINGS / AS-BUILTS OF THE EXISTING BUILDING, IN-PERSON SITE OBSERVATIONS, AND ASSUMED FRAMING BASED ON THE FLOOR PLAN LAYOUT. THE GENERAL CONTRACTOR SHALL VERIFY THE LOCATION AND SIZE OF ALL STRUCTURAL MEMBERS SHOWN ON THE PLANS PRIOR TO BEGINNING ANY DEMOLITION WORK.
2. **THE GC SHALL NOT DEMOLISH ANY WALLS, COLUMNS, FRAMING, OR OPENINGS THAT ARE NOT SHOWN AND NOTED TO BE DEMOLISHED ON THE STRUCTURAL DEMO PLANS, REGARDLESS IF THESE ITEMS ARE SHOWN TO BE DEMOLISHED ON THE ARCHITECTURAL DEMO PLANS, WITHOUT STRUCTURAL EOR REVIEW & APPROVAL.**
3. THE GC SHALL VERIFY THAT ANY WALL, MASONRY OR OTHERWISE, TO BE DEMOLISHED IS A NON-LOAD BEARING WALL PRIOR TO BEGINNING DEMOLITION. IF WALL IS FOUND TO BE LOAD BEARING GC IS TO CONTACT THE ARCHITECT AND THE ENGINEER BEFORE PROCEEDING.
4. THE GC SHALL SUBMIT PREDEMOLITION PHOTOGRAPHS OR VIDEOS SHOWING EXISTING CONDITIONS FOR ANY EXISTING WALLS OR NEW OPENINGS IN EXISTING WALLS,FLOORS, AND/OR ROOFS SCHEDULED TO BE DEMOLISHED FOR THE STRUCTURAL EOR'S REVIEW AND APPROVAL PRIOR TO THE START OF DEMOLITION. PHOTOS MUST SHOW EXISTING CONDITIONS OF ADJOINING CONSTRUCTION AND SITE IMPROVEMENTS, INCLUDING FINISH SURFACES, THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSED BY SALVAGE AND DEMOLITION OPERATIONS. THE LOCATIONSOF PRE-DEMOLITION PHOTOGRAPHS & VIDEOS SHALL BE IDENTIFIED ON AN ACCOMPANYING PLAN VIEW.
5. CARE SHOULD BE TAKEN DURING DEMOLITION TO AVOID DAMAGING ANY STRUCTURAL ELEMENTS THAT HAVE BEEN DESIGNATED TO REMAIN.
6. STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE.
7. THE GENERAL CONTRACTOR SHALL EMPLOY A DEMOLITION SUBCONTRACTOR WHO MEETS THE FOLLOWING REQUIREMENTS:
   A. A COMPANY WITH MINIMUM OF FIVE (5) YEARS OF SELECTIVE STRUCTURAL DEMOLITION EXPERIENCE OF SIMILAR SIZE, SCALE, AND COMPLEXITY OF THE DEMOLITION WORK INVOLVED IN THIS PROJECT. FURTHERMORE, THE SITE SUPERINTENDENT OR FOREMAN SHALL HAVE THE SAME REQUIRED EXPERIENCE.
   B. AT A MINIMUM, A DEMOLITION SUBCONTRACTOR SHALL HAVE A REPRESENTATIVE WHO HAS COMPLETED OSHA 30 TRAINING AND BE PRESENT ON SITE DURING ALL DEMOLITION ACTIVITIES.
   C. ANY DEMOLITION SUBCONTRACTORS WITH OSHA VIOLATIONS WITHIN THE PAST 5 YEARS OR ARE UNDER ACTIVE OSHA INVESTIGATIONS WILL NOT BE CONSIDERED QUALIFIED FOR STRUCTURAL DEMOLITION.
   D. IN CASES WHERE THE GENERAL CONTRACTOR WISHES TO EMPLOY MULTIPLE DEMOLITION SUBCONTRACTORS FOR VARIOUS DEMOLITION SCOPE, ALL DEMOLITION SUBCONTRACTORS SHALL MEET THE ABOVE QUALIFICATIONS.
8. THE STRUCTURAL EOR IS NOT RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY SHORING OR BRACING REQUIRED BETWEEN DEMOLITION AND THE INSTALLATION OF THE NEW STRUCTURE. THE GENERAL CONTRACTOR SHALL EMPLOY A DEMOLITION AND TEMPORARY SHORINGDELEGATED DESIGN ENGINEER WHO IS A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS AND SPECIALIZES IN DEMOLITION AND TEMPORARY STRUCTURES. THE DELEGATED DESIGN ENGINEER IS RESPONSIBLE FOR THE FOLLOWING:
   A. PROVIDE A LETTER STATING THAT THEY FULLY UNDERSTAND THE SCOPE OFWORK REQUIRED FROM ALL DISCIPLINES.
   B. SHORING PLANS AND DEMOLITION PLANS, WHICH INCLUDES THE SEQUENCE OF SHORING, SEQUENCE OF DEMOLITION, AND DURATION OF BOTH SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
   C. EXCAVATION SUPPORT AND PROTECTION SYSTEM PLANS, WHICH INCLUDES THE SEQUENCE OF SUPPORT & PROTECTION SYSTEM, SEQUENCE OF DEMOLITION, AND DURATION OF BOTH SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
   D. PERFORM PERIODIC SITE VISITS WHICH INCLUDE VARIOUS MILESTONES FOR THE DEMOLITION AND SHORING SUBCONTRACTORS AND SHALL PROVIDE OBSERVATION REPORT, PHOTOS, ETC. BASELINES SHALL BE SET PRIOR TO TEMPORARY SHORING AND SHORTLY AFTER TEMPORARY SHORING IS INSTALLED. MEASUREMENTS SHALL BE TAKEN AT MILESTONES.
9. AN ON-SITE PRECONSTRUCTION DEMOLITION MEETING IS REQUIRED PRIOR TO ANY DEMOLITION ACTIVITIES, WHICH MUST INCLUDE THE DELEGATED DESIGN ENGINEER, STRUCTURAL ENGINEER OF RECORD, ARCHITECT, OWNER, GENERAL CONTRACTOR, AND DEMOLITION SUBCONTRACTOR REPRESENTATIVES OVERSEEING DEMOLITION WORK PER NOTES 7& 8.
   A. THE PRECONSTRUCTION MEETING SHALL INCLUDE A SITE WALK TO GC SHALL HAVE REMOVED SUPERFICIAL/ARCHITECTURAL COVERINGS SO THAT STRUCTURE IS VISIBLE DURING SITE WALK.
10. THE GENERAL CONTRACTOR SHALL PROVIDE A "TWO-WEEK LOOK AHEAD" TO INDICATE UPCOMING AREAS WHERE DEMOLITION WORK IS SCHEDULED TO TAKE PLACE, SO ALL PARTIES ARE AWARE OF TIMELINE AND ANY COORDINATION WITH ARCHITECT AND CONSULTANTS CAN TAKE PLACE. THE HIGHLIGHTED PLAN SHOULD BE COMPLETED BY THE GENERAL CONTRACTOR (IN CONJUNCTION WITH THEIR DEMOLITION SUBCONTRACTOR) AND BE AVAILABLE FOR DISCUSSION AT THE WEEKLY OAC MEETING.

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Galena Park ISD
EXCELLENCE IN ALL FOR EVERY CHILD

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

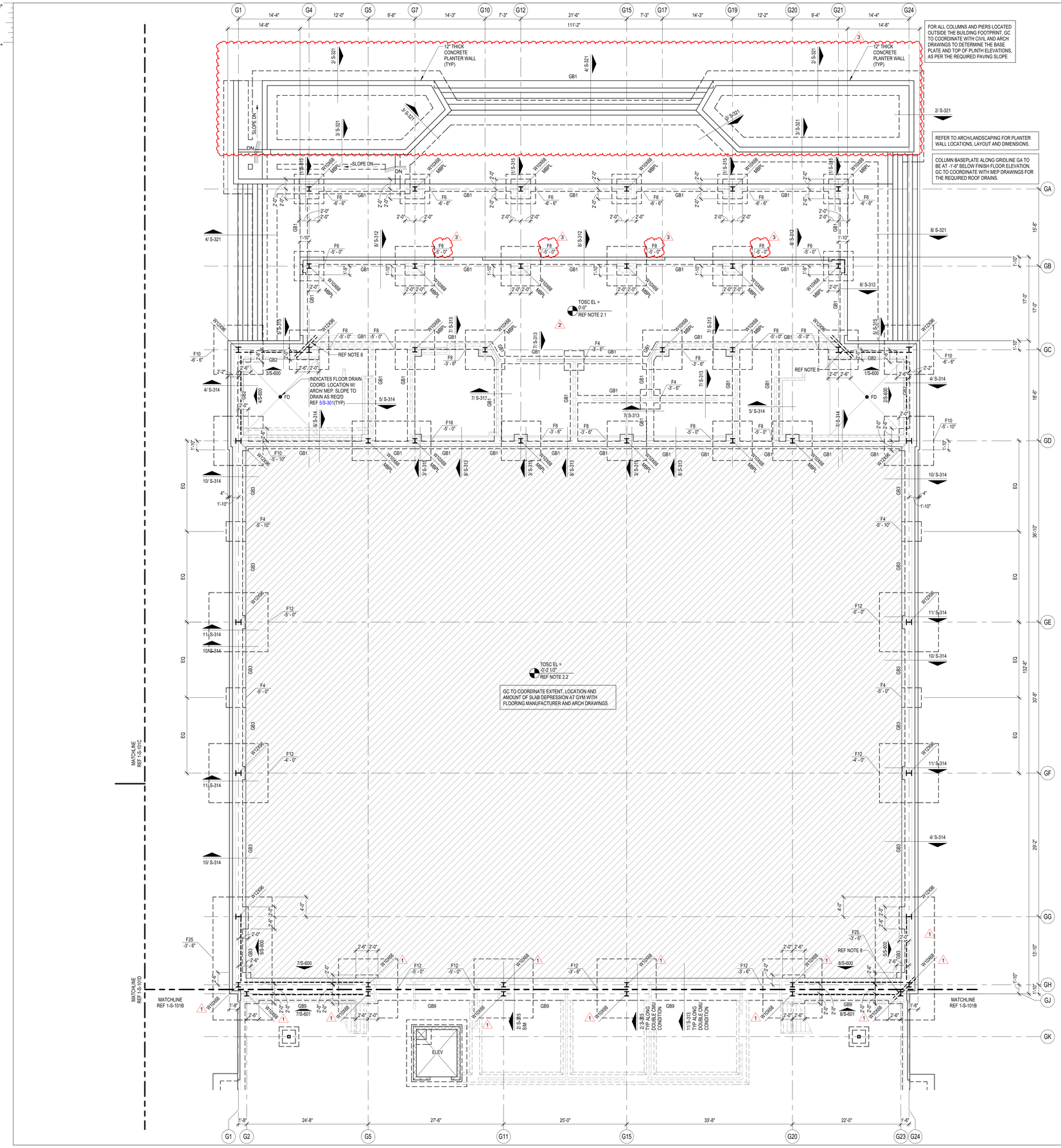
CHECKED BY: SI
DRAWN BY: CML

FOUNDATION DEMO PLAN - EXISTING MECH YARD

SD-101M

Plot Stamp:
1/8/2026 2:16:46 PM

FOUNDATION PLAN - AREA A
S-101A
FOR BLUEBEAM LABELINGDOOR:



FOR ALL COLUMNS AND PIERS LOCATED OUTSIDE THE BUILDING FOOTPRINT, GC TO COORDINATE WITH CIVIL AND ARCH DRAWINGS TO DETERMINE THE BASE PLATE AND TOP OF PLINTH ELEVATIONS, AS PER THE REQUIRED PAVING SLOPE

REFER TO ARCH/LANDSCAPING FOR PLANTER WALL LOCATIONS, LAYOUT AND DIMENSIONS.

COLUMN BASEPLATE ALONG GRIDLINE GA TO BE AT -1'-6" BELOW FINISH FLOOR ELEVATION. GC TO COORDINATE WITH MEP DRAWINGS FOR THE REQUIRED ROOF DRAINS.

FOR ALL PIERS SUPPORTING THE LANDSCAPING WALLS, RAMPS AND STAIRS OUTSIDE THE BUILDING FOOTPRINT TO LIMIT THE DEPTH TO 35'-0" BELOW EXISTING GRADE.

(TYPICAL) FOR ALL COLUMNS TO HAVE A PLINTH BELOW, REF S-303 FOR PLINTH TYPE

FOUNDATION PLAN NOTES

1. REFER TO PLAN FOR TOP OF STRUCTURAL CONCRETE ELEVATIONS (TOSC EL). ALL ELEVATIONS SHOWN ON THE PLAN ARE BASED ON A LEVEL ONE REFERENCE ELEVATION = 0'-0". THIS REFERENCE ELEVATION IS EQUIVALENT TO THE LEVEL ONE MEAN SEA LEVEL ELEVATION = REF CIVIL SHOWN IN THE CIVIL AND ARCHITECTURAL DRAWINGS AND IS NOT INTENDED TO ESTABLISH THE ACTUAL SEA LEVEL ELEVATION OF ANY PORTION OF THE STRUCTURE.

2.1 5" THICK CONCRETE SLAB ON GRADE REINFORCED WITH #4@15" OC EACH WAY, ON 2 1/2" CHAIRS FOR #4 BARS SPACED AT 30" OC EACH WAY. PLACE THE SLAB ON 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL (SOIL REPORT) FOR SLAB JOINT DETAILS REFER TO 1/S-301 AND 2/S-301.

2.2 6" THICK CONCRETE SLAB ON GRADE REINFORCED WITH #4@14" OC EACH WAY, ON 3 1/2" CHAIRS SPACED AT 28" OC EACH WAY.
PLACE THE SLAB ON 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL (SOIL REPORT) FOR SLAB JOINT DETAILS REFER TO 1/S-301 AND 2/S-301 .

2.3 5 1/2" THICK CONCRETE SLAB ON GRADE AT THE POLISHED CONC AREAS REINFORCED WITH #4@14" OC EACH WAY ON 3" CHAIRS SPACED AT 28" OC EACH WAY. PLACE THE SLAB ON 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL (SOIL REPORT) FOR SLAB JOINT DETAILS REFER TO 1/S-301 AND 2/S-301.

3.1 TOP OF INTERIOR GRADE BEAM ELEVATION SHALL BE = -1'-0" UON.
TOP OF PERIMETER GRADE BEAM ELEVATION SHALL BE = -1'-0" UON.

3.2 TOP OF INTERIOR/ EXTERIOR PLINTH ELEVATION SHALL BE = -1'-0" UON.
TOP OF INTERIOR PIER ELEVATION WITHOUT PLINTH SHALL BE = -1'-0" UON.
TOP OF INTERIOR PIER ELEVATION WITH PLINTH SHALL BE = -3'-6" UON.
TOP OF INTERIOR PIER ELEVATION WITH GRADE BEAM SHALL BE = -3'-6" UON.
TOP OF EXTERIOR PIER ELEVATION SHALL BE = -3'-6" UON.

4. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENTS AND DIMENSIONS OF RAISED OR DEPRESSED SLAB AREAS, SLOPES, CURBS, AND DRAINS. REFER TO TYPICAL DETAILS FOR REINFORCEMENT REQUIREMENTS.

5. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.

6. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES.

7. GC COORDINATE ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.

8. PROVIDE (2) - #5 x 5'-0" LONG BAR IN SLAB AT RE-ENTRANT CORNERS, TYPICAL. INCLUDING RE-ENTRANT CORNERS AROUND THE PERIMETER OF THE BUILDINGS, FLOOR RECESSES AND OPENINGS.

9. GC COORDINATE ALL THE SIZE AND EXTENT OF ALL BRICK LEDGES SHOWN ON PLAN OR DETAILS WITH ARCHITECTURAL DRAWINGS.

10. REF S0.xx SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS

11. REF S3.xx SERIES DRAWINGS FOR FOUNDATION AND SLAB-ON-GRADE DETAILS.

12. REF S4.xx SERIES DRAWINGS FOR CMU DETAILS.

13. REF S5.xx SERIES DRAWINGS FOR STEEL DETAILS.

14. REF S6.xx SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.

15. REFER TO ARCH AND PLUMBING DWGS FOR THE SIZE, NUMBER AND LOCATION OF ALL THE TRENCHES AND FLOOR DRAINS. REF 10/S-301 FOR TRENCH DETAIL AND REF 4/S-301 FOR FLOOR DRAIN DETAIL.

16. AT INTERIOR CMU WALL LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE SLAB TURNDOWN PER DETAIL 4/S-313 TYPICAL. AT INTERIOR GLAZING LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE TURNDOWN SIMILAR TO DETAIL 4/S-313, TYPICAL.

17. PIERS/FOOTINGS WITHOUT CENTERLINES SHOWN ON PLANS, SECTIONS AND/OR DETAILS SHALL BE LOCATED AS FOLLOWS:
   A. COLUMNS AND PILASTERS: CENTERLINE OF THE COLUMN.
   B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL.
   C. ALONG THE LENGTH OF GRADE BEAMS AND WALLS: INTERMEDIATE PIERS/FOOTINGS SHALL BE SPACED EQUALLY BETWEEN PIERS/FOOTINGS THAT ARE DIMENSIONALLY SET ON PLAN OR AS NOTED ABOVE.
   D. PIERS SUPPORTING SLABS ON CARTON FORMS: UNLESS NOTED OTHERWISE, PIERS NOT DIMENSIONED SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN.

18. GC TO COORDINATE THE LOCATION OF ALL CONC CURBS WITH ARCH DWGS. REF 7/S-301 FOR DETAIL TYP

19. GC COORDINATE THE LOCATION OF ALL CANOPY COLUMNS WITH ARCH DRAWINGS.

20. INDICATES STRUCTURAL CMU THAT ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. REFER TO ARCH DWGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU. A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.

21. INDICATES NON-STRUCTURAL CMU THAT ARE NOT PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND ARE NOT DESIGNED TO SUPPORTS GRAVITY LOADS. REFER TO ARCH DWGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU. A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.

22. IT CAN BE COMMON PRACTICE FOR STEEL STUB-UPS WITH STRUCTURAL STEEL SILL SUPPORT MEMBERS TO BE PROVIDED AT LONG FIRST FLOOR WINDOW SILLS (REF DETAIL 4/S-311); HOWEVER, FOR FIRST FLOOR WINDOWS, 8'-0" AND NARROWER, THE GC SHALL PROVIDE PRE-ENGINEERED COLD-FORM SILL SUPPORTS UTILIZING COLD-FORM FRAMING ONLY. THESE COLD-FORM SILL SHALL BE DESIGNED BY THE DRYWALL SUBCONTRACTOR'S ENGINEER AND SUBMITTED IN THE SHOP DRAWINGS FOR REVIEW. WHERE FIRST FLOOR WINDOW SILLS EXCEED 8'-0" THE CONTRACTOR SHALL PROVIDE MISC. STRUCTURAL STEEL PER 4/S-311 (TYP.)

23. PROVIDE STRUCTURAL GEO-FOAM WITH 4" CONCRETE TOPPING SLAB WITH WWF OVER SLAB ON GRADE FOR HATCHED AREAS. GEO-FOAM AND TOPPING SLAB BY MANUFACTURER - REF ARCH AND GENERAL NOTES.
GC NOTE: ORIGINAL BASE/ FLAT SLAB EXTENDS CONTINUOUS BELOW PLATFORM AND STAIRS. PROVIDE GEO-FOAM FILL BELOW PLATFORM WITH 4" CONCRETE TOPPING SLAB WITH 6x6x2.9x2.9 W.W.M. AT MID-HEIGHT OF SLAB. ADDITIONALLY PROVIDE 4" CONCRETE WALLS WITH #4 BARS AT 12" OC EACH WAY - DRILL AND EPOXY 4" INTO BASE/ FLAT SLAB WITH HILTI HY-200 V3 ADHESIVE.

24. REFER TO S-300 FOR CONCRETE FINISHES NOTES.

1 FOUNDATION PLAN - AREA A
1/8" = 1'-0"

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Galena Park ISD

A

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

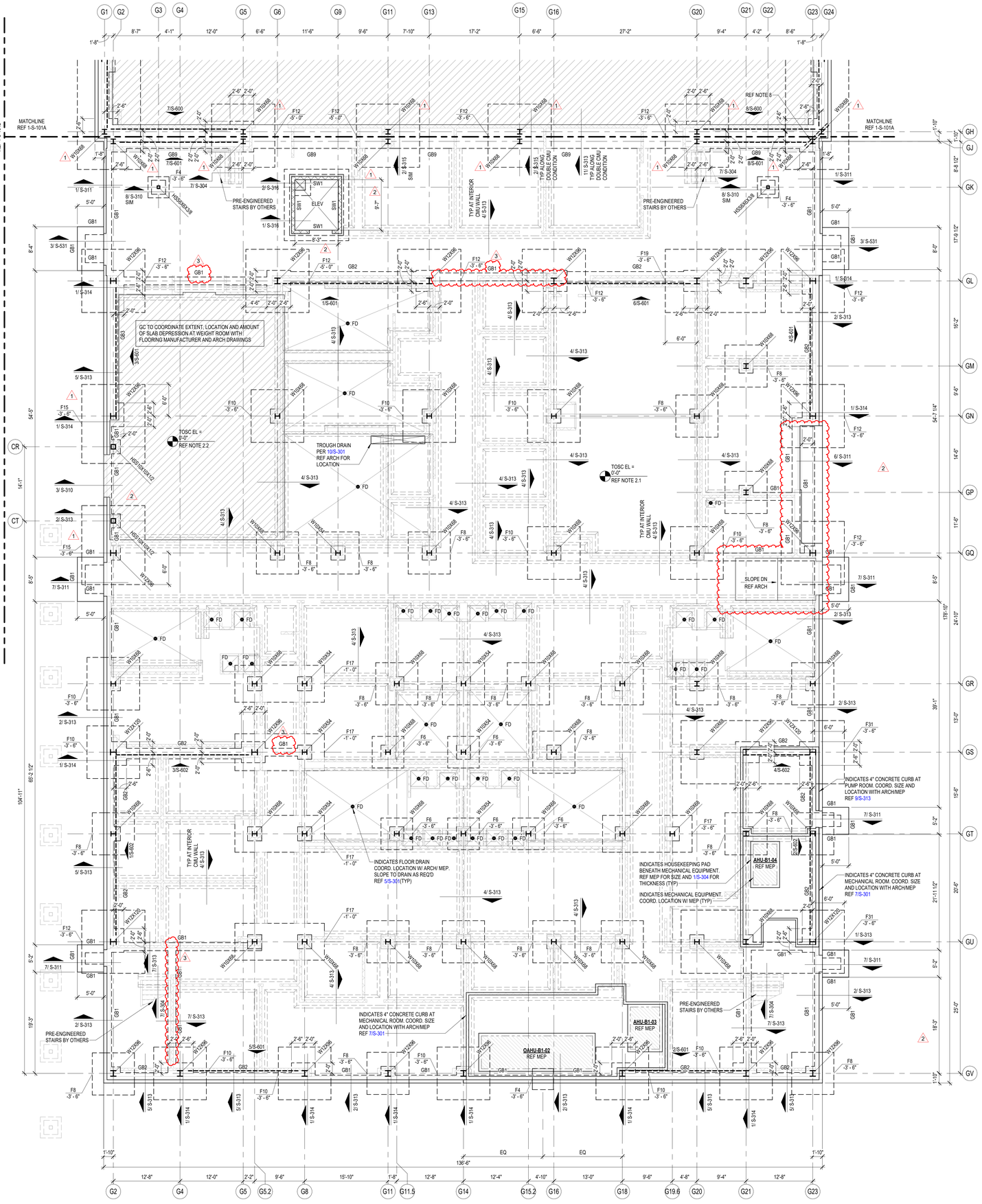
CHECKED BY: SI
DRAWN BY: CML

FOUNDATION PLAN - AREA A

S-101A

Plot Stamp:
1/8/2026 2:16:49 PM

FOUNDATION PLAN - AREA B
S-101B
FOR BLUEBEAM LABELING/DOOR:



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5. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.

6. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES.

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI
DRAWN BY: CML

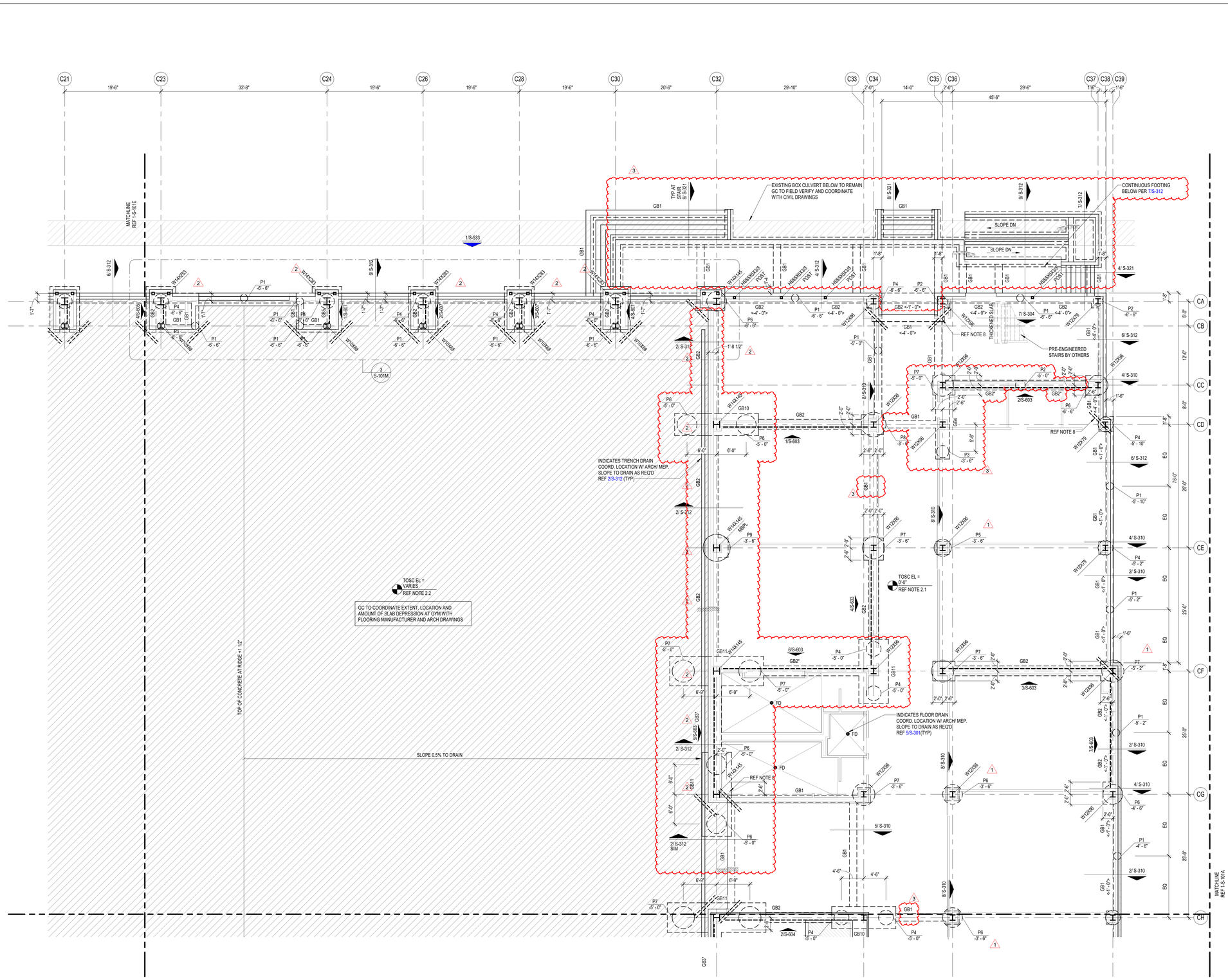
FOUNDATION PLAN - AREA B

S-101B

Plot Stamp:
1/8/2026 2:16:53 PM

FOUNDATION PLAN - AREA C
S-101C
FOR BLUEBEAM LABELING/DOOR:

0"
1"



1 FOUNDATION PLAN - AREA C
1/8" = 1'-0"

FOUNDATION PLAN NOTES

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TOP OF PERIMETER GRADE BEAM ELEVATION SHALL BE = -1'-0" UON.

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TOP OF INTERIOR PIER ELEVATION WITHOUT PLINTH SHALL BE = -1'-0" UON.
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4. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENTS AND DIMENSIONS OF RAISED OR DEPRESSED SLAB AREAS, SLOPES, CURBS, AND DRAINS. REFER TO TYPICAL DETAILS FOR REINFORCEMENT REQUIREMENTS.

5. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.

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9. GC COORDINATE ALL THE SIZE AND EXTENT OF ALL BRICK LEDGES SHOWN ON PLAN OR DETAILS WITH ARCHITECTURAL DRAWINGS.

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LICENSED PROFESSIONAL ENGINEER
12/05/2025
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Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

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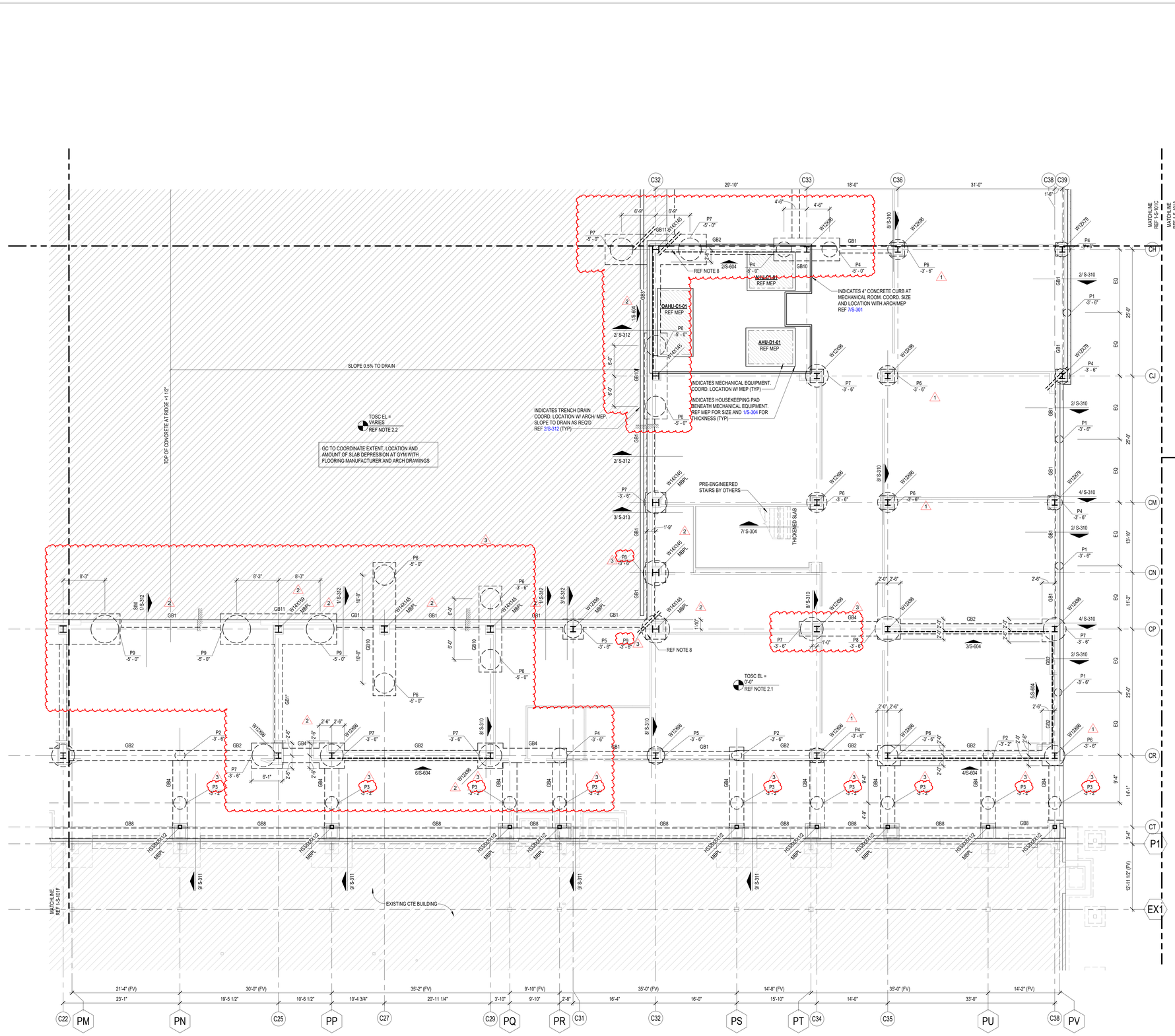
FOUNDATION PLAN - AREA C

S-101C

Plot Stamp:
1/8/2026 2:16:56 PM

FOUNDATION PLAN - AREA D
S-101D
FOR BLUEBEAM LABELING/DOOR:

0"
1"



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1/8" = 1'-0"

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FOUNDATION PLAN - AREA D

S-101D

Plot Stamp:
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FOUNDATION PLAN - AREA E
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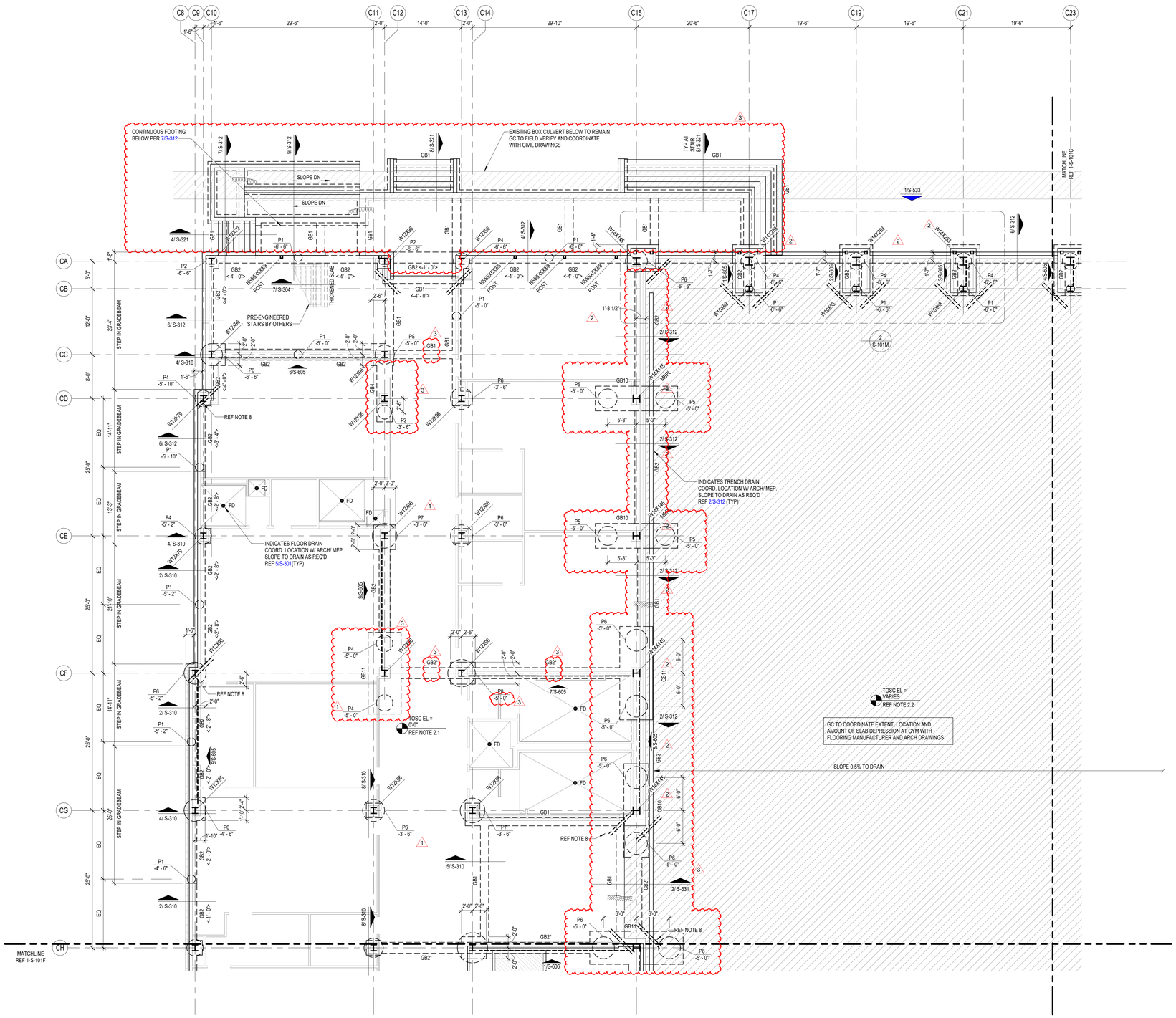
FOR BLUEBEAM LABELINGDOOR:



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   C. ALONG THE LENGTH OF GRADE BEAMS AND WALLS: INTERMEDIATE PIERS/FOOTINGS SHALL BE SPACED EQUALLY BETWEEN PIERS/FOOTINGS THAT ARE DIMENSIONALLY SET ON PLAN OR AS NOTED ABOVE.
   D. PIERS SUPPORTING SLABS ON CARTON FORMS: UNLESS NOTED OTHERWISE, PIERS NOT DIMENSIONED SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN.

18. GC TO COORDINATE THE LOCATION OF ALL CONC CURBS WITH ARCH DWGS. REF 7/S-301 FOR DETAIL TYP

19. GC COORDINATE THE LOCATION OF ALL CANOPY COLUMNS WITH ARCH DRAWINGS.

20. INDICATES STRUCTURAL CMU THAT ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. REFER TO ARCH DWGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU. A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.

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22. IT CAN BE COMMON PRACTICE FOR STEEL STUB-UPS WITH STRUCTURAL STEEL SILL SUPPORT MEMBERS TO BE PROVIDED AT LONG FIRST FLOOR WINDOW SILLS (REF DETAIL 4/S-311); HOWEVER, FOR FIRST FLOOR WINDOWS, 8'-0" AND NARROWER, THE GC SHALL PROVIDE PRE-ENGINEERED COLD-FORM SILL SUPPORTS UTILIZING COLD-FORM FRAMING ONLY. THESE COLD-FORM SILL SHALL BE DESIGNED BY THE DRYWALL SUBCONTRACTOR'S ENGINEER AND SUBMITTED IN THE SHOP DRAWINGS FOR REVIEW. WHERE FIRST FLOOR WINDOW SILLS EXCEED 8'-0" THE CONTRACTOR SHALL PROVIDE MISC. STRUCTURAL STEEL PER 4/S-311 (TYP.)

23. PROVIDE STRUCTURAL GEO-FOAM WITH 4" CONCRETE TOPPING SLAB WITH WWF OVER SLAB ON GRADE FOR HATCHED AREAS. GEO-FOAM AND TOPPING SLAB BY MANUFACTURER - REF ARCH AND GENERAL NOTES.
GC NOTE: ORIGINAL BASE/ FLAT SLAB EXTENDS CONTINUOUS BELOW PLATFORM AND STAIRS. PROVIDE GEO-FOAM FILL BELOW PLATFORM WITH 4" CONCRETE TOPPING SLAB WITH 6x6x2.9x2.9 W.W.M. AT MID-HEIGHT OF SLAB. ADDITIONALLY PROVIDE 4" CONCRETE WALLS WITH #4 BARS AT 12" OC EACH WAY - DRILL AND EPOXY 4" INTO BASE/ FLAT SLAB WITH HILTI HY-200 V3 ADHESIVE.

24. REFER TO S-300 FOR CONCRETE FINISHES NOTES.

1 FOUNDATION PLAN - AREA E
1/8" = 1'-0"

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI
DRAWN BY: CML

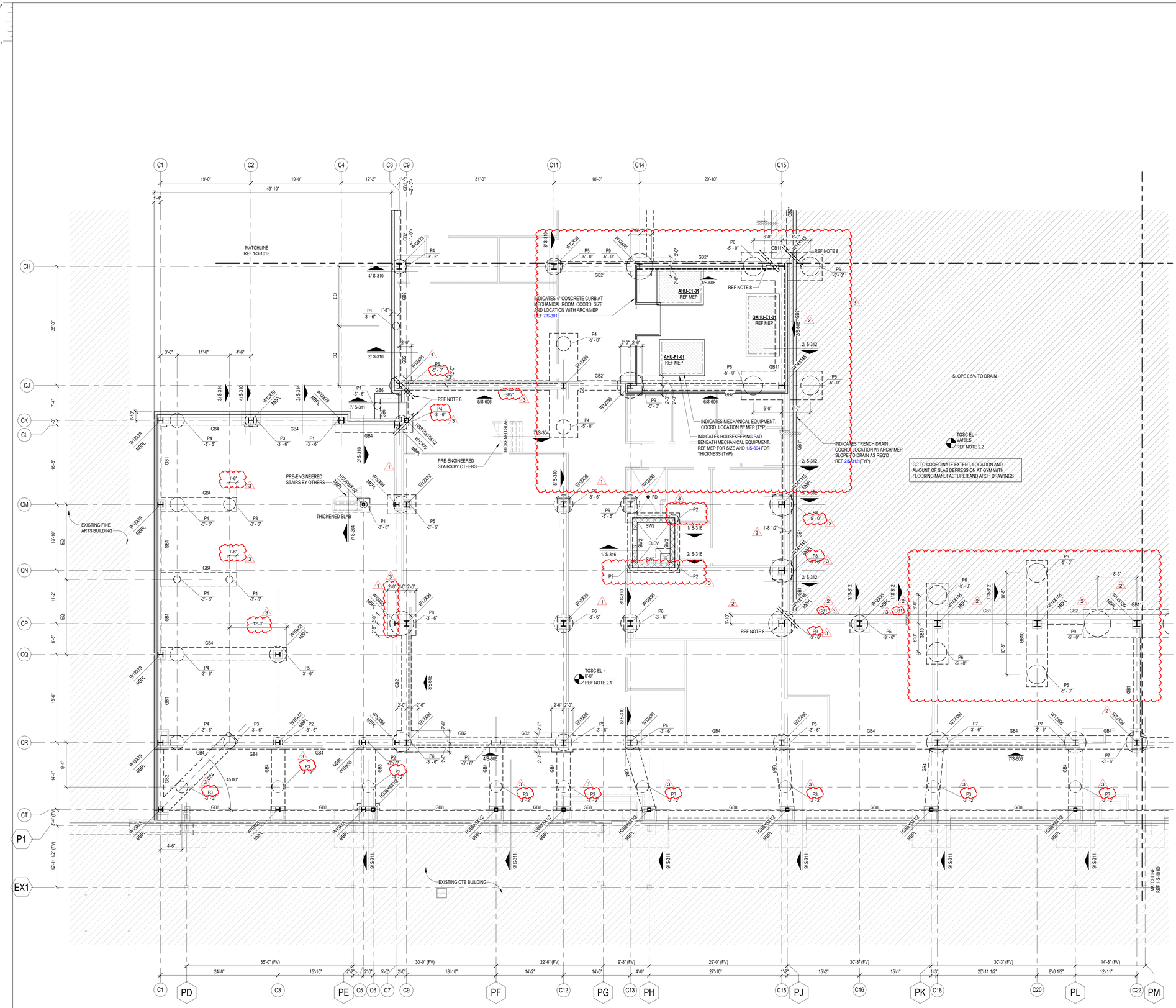
FOUNDATION PLAN - AREA E

S-101E

Plot Stamp:
1/8/2026 2:17:02 PM

FOUNDATION PLAN - AREA F
S-101F
FOR BLUEBEAM LABELING/DOOR:

0"
1"



FOUNDATION PLAN NOTES

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2.1 5" THICK CONCRETE SLAB ON GRADE REINFORCED WITH #4@15" OC EACH WAY, ON 2 1/2" CHAIRS FOR #4 BARS SPACED AT 30" OC EACH WAY. PLACE THE SLAB ON 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL (SOIL REPORT) FOR SLAB JOINT DETAILS REFER TO 1/S-301 AND 2/S-301.

2.2 6" THICK CONCRETE SLAB ON GRADE REINFORCED WITH #4@14" OC EACH WAY, ON 3 1/2" CHAIRS SPACED AT 28" OC EACH WAY. PLACE THE SLAB ON 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL (SOIL REPORT) FOR SLAB JOINT DETAILS REFER TO 1/S-301 AND 2/S-301 .

2.3 5 1/2" THICK CONCRETE SLAB ON GRADE AT THE POLISHED CONC AREAS REINFORCED WITH #4@14" OC EACH WAY ON 3" CHAIRS SPACED AT 28" OC EACH WAY. PLACE THE SLAB ON 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL (SOIL REPORT) FOR SLAB JOINT DETAILS REFER TO 1/S-301 AND 2/S-301.

3.1 TOP OF INTERIOR GRADE BEAM ELEVATION SHALL BE = -1'-0" UON.
TOP OF PERIMETER GRADE BEAM ELEVATION SHALL BE = -1'-0" UON.

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TOP OF INTERIOR PIER ELEVATION WITHOUT PLINTH SHALL BE = -1'-0" UON.
TOP OF INTERIOR PIER ELEVATION WITH PLINTH SHALL BE = -3'-6" UON.
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4. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENTS AND DIMENSIONS OF RAISED OR DEPRESSED SLAB AREAS, SLOPES, CURBS, AND DRAINS. REFER TO TYPICAL DETAILS FOR REINFORCEMENT REQUIREMENTS.

5. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.

6. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES.

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9. GC COORDINATE ALL THE SIZE AND EXTENT OF ALL BRICK LEDGES SHOWN ON PLAN OR DETAILS WITH ARCHITECTURAL DRAWINGS.

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(TYPICAL) FOR ALL COLUMNS TO HAVE A PLINTH BELOW, REF S-303 FOR PLINTH TYPE

1 FOUNDATION PLAN - AREA F
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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
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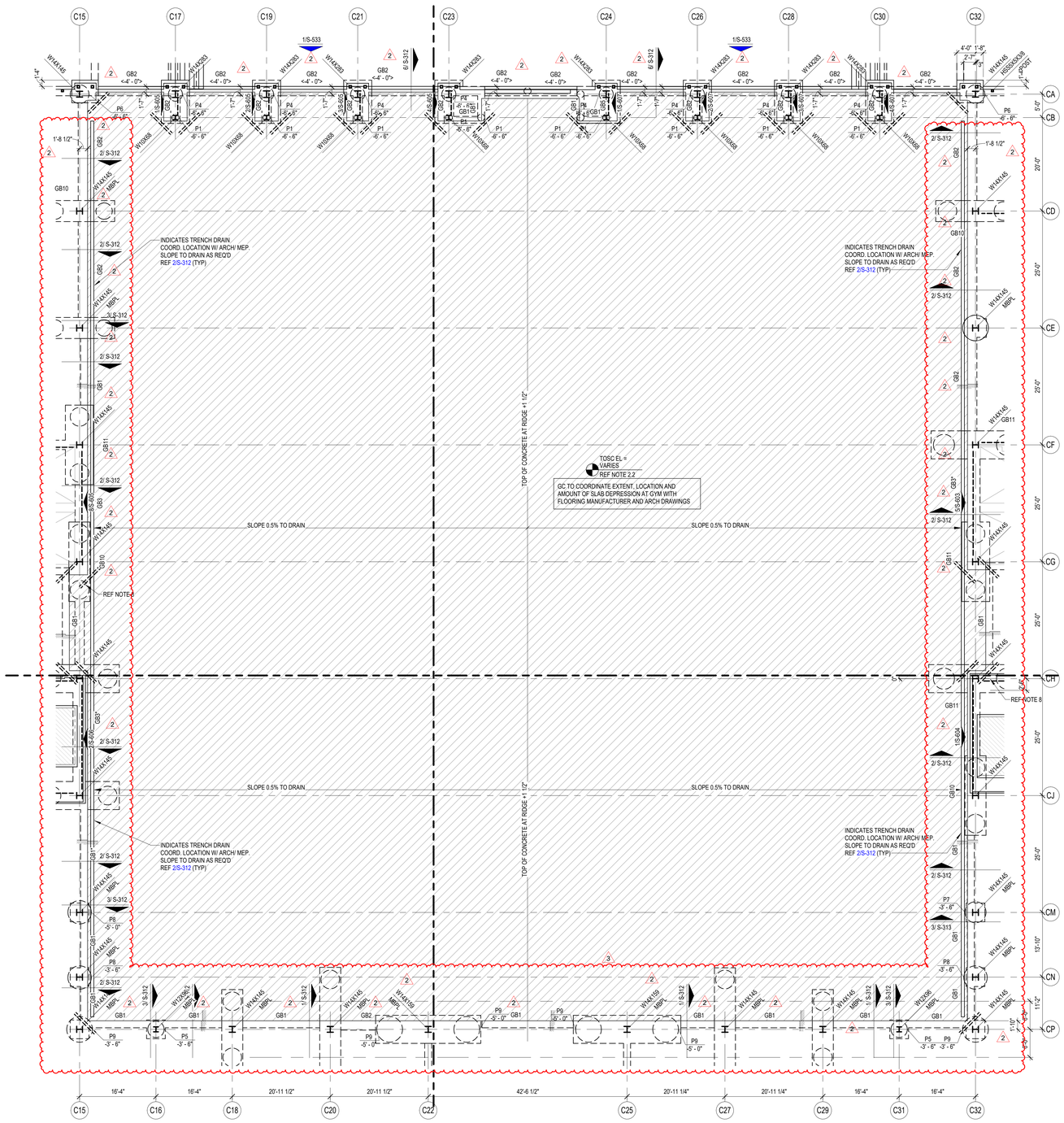
FOUNDATION PLAN - AREA F

S-101F

Plot Stamp:
1/8/2026 2:17:06 PM

FOUNDATION PLAN - AREA G
S-101G
FOR BLUEBEAM LABEL/INDOOR:

0"
1"



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24. REFER TO S-300 FOR CONCRETE FINISHES NOTES.

3 (TYPICAL) FOR ALL COLUMNS TO HAVE A PLINTH BELOW, REF S-303 FOR PLINTH TYPE

1 FOUNDATION PLAN - AREA G
3/32" = 1'-0"

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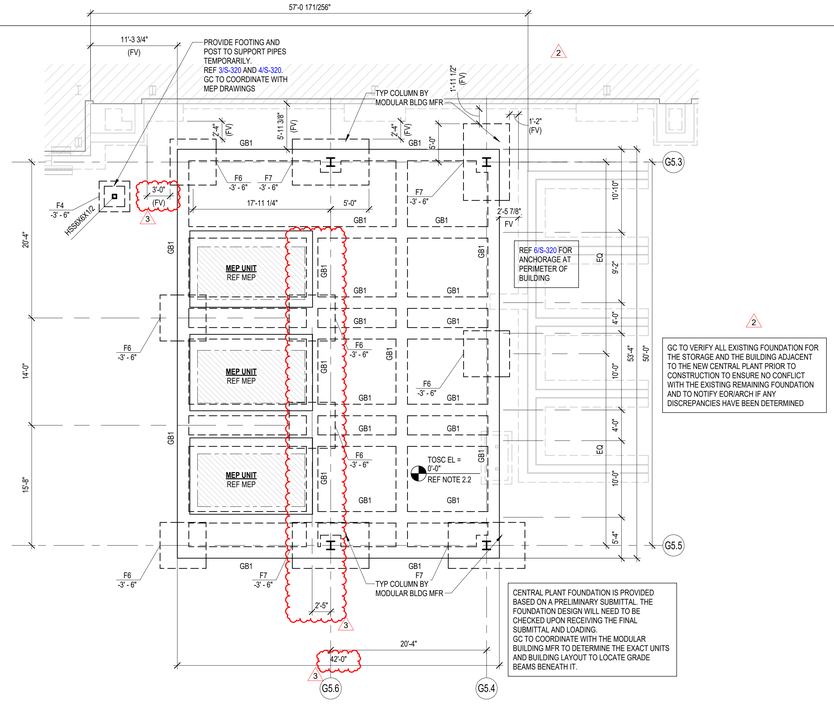
FOUNDATION PLAN - AREA G

S-101G

Plot Stamp:
1/8/2026 2:17:09 PM

FOUNDATION PLAN - MISC
S-101M
FOR BLUEBEAM LABELINGDOOR:



1 FOUNDATION PLAN - CENTRAL PLANT
1/8" = 1'-0"

(TYPICAL) FOR ALL COLUMNS TO HAVE A PLINTH BELOW, REF S-303 FOR PLINTH TYPE

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13. REF S5.xx SERIES DRAWINGS FOR STEEL DETAILS.

14. REF S6.xx SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.

15. REFER TO ARCH AND PLUMBING DWGS FOR THE SIZE, NUMBER AND LOCATION OF ALL THE TRENCHES, AND FLOOR DRAINS. REF 10/S-301 FOR TRENCH DETAIL AND REF 4/S-301 FOR FLOOR DRAIN DETAIL.

16. AT INTERIOR CMU WALL LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE SLAB TURNDOWN PER DETAIL 4/S-313 TYPICAL. AT INTERIOR GLAZING LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE TURNDOWN SIMILAR TO DETAIL 4/S-313, TYPICAL.

17. PIERS/FOOTINGS WITHOUT CENTERLINES SHOWN ON PLANS, SECTIONS AND/OR DETAILS SHALL BE LOCATED AS FOLLOWS:

A. COLUMNS AND PILASTERS: CENTERLINE OF THE COLUMN.
B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL.
C. ALONG THE LENGTH OF GRADE BEAMS AND WALLS: INTERMEDIATE PIERS/FOOTINGS SHALL BE SPACED EQUALLY BETWEEN PIERS/FOOTINGS THAT ARE DIMENSIONALLY SET ON PLAN OR AS NOTED ABOVE.
D. PIERS SUPPORTING SLABS ON CARTON FORMS: UNLESS NOTED OTHERWISE, PIERS NOT DIMENSIONED SHALL BE SPACED EQUALLY BETWEEN PIERS THAT ARE DIMENSIONALLY SET ON PLAN.

18. GC TO COORDINATE THE LOCATION OF ALL CONC CURBS WITH ARCH DWGS. REF 7/S-301 FOR DETAIL TYP

19. GC COORDINATE THE LOCATION OF ALL CANOPY COLUMNS WITH ARCH DRAWINGS.

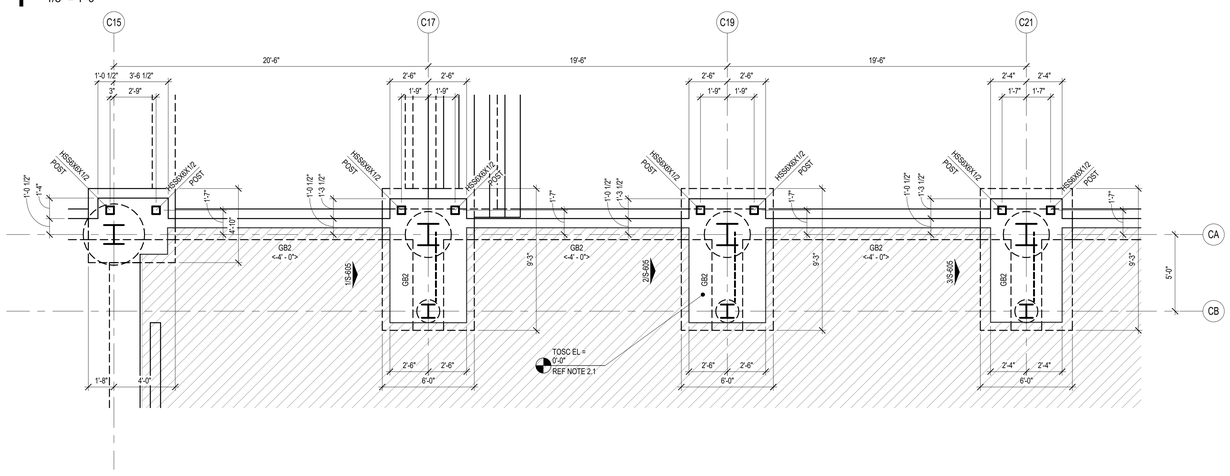
20. ▨ INDICATES STRUCTURAL CMU THAT ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. REFER TO ARCH DWGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU. A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.

21. ▨ INDICATES NON-STRUCTURAL CMU THAT ARE NOT PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND ARE NOT DESIGNED TO SUPPORTS GRAVITY LOADS. REFER TO ARCH DWGS FOR THE LOCATION OF ALL NON-STRUCTURAL CMU. A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.

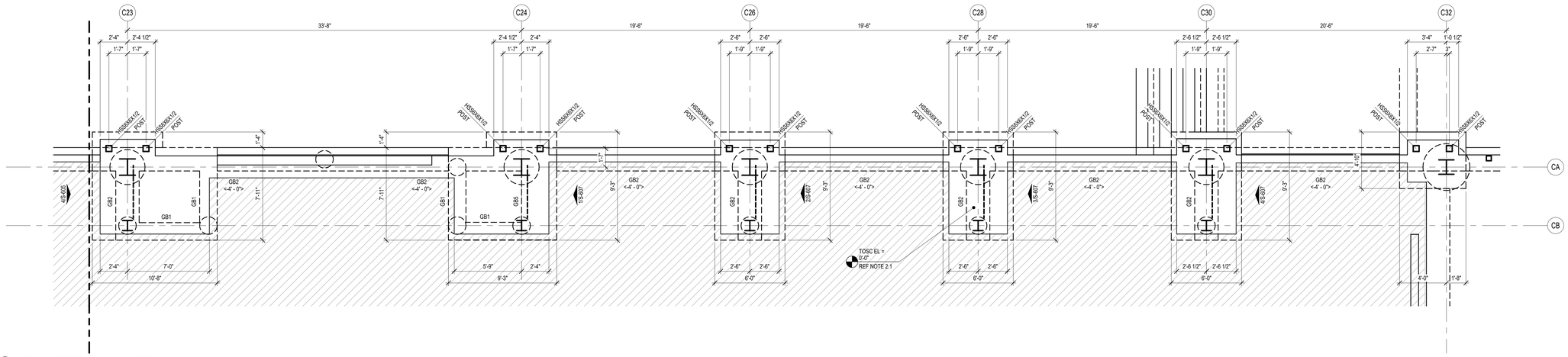
22. IT CAN BE COMMON PRACTICE FOR STEEL STUB-UPS WITH STRUCTURAL STEEL SILL SUPPORT MEMBERS TO BE PROVIDED AT LONG FIRST FLOOR WINDOW SILLS (REF DETAIL 4/S-311); HOWEVER, FOR FIRST FLOOR WINDOWS, 8'-0" AND NARROWER, THE GC SHALL PROVIDE PRE-ENGINEERED COLD-FORM SILL SUPPORTS UTILIZING COLD-FORM FRAMING ONLY. THESE COLD-FORM SILL SHALL BE DESIGNED BY THE DRYWALL SUBCONTRACTOR'S ENGINEER AND SUBMITTED IN THE SHOP DRAWINGS FOR REVIEW. WHERE FIRST FLOOR WINDOW SILLS EXCEED 8'-0" THE CONTRACTOR SHALL PROVIDE MISC. STRUCTURAL STEEL PER 4/S-311 (TYP.)

23. PROVIDE STRUCTURAL GEO-FOAM WITH 4" CONCRETE TOPPING SLAB WITH WWF OVER SLAB ON GRADE FOR HATCHED AREAS. GEO-FOAM AND TOPPING SLAB BY MANUFACTURER - REF ARCH AND GENERAL NOTES.
GC NOTE: ORIGINAL BASE/ FLAT SLAB EXTENDS CONTINUOUS BELOW PLATFORM AND STAIRS. PROVIDE GEO-FOAM FILL BELOW PLATFORM WITH 4" CONCRETE TOPPING SLAB WITH 6x6x2.9x2.9 W.W.M. AT MID-HEIGHT OF SLAB. ADDITIONALLY PROVIDE 4" CONCRETE WALLS WITH #4 BARS AT 12" OC EACH WAY - DRILL AND EPOXY 4" INTO BASE/ FLAT SLAB WITH HILTI HY-200 V3 ADHESIVE.

24. REFER TO S-300 FOR CONCRETE FINISHES NOTES.



2 PILASTER PLAN DETAIL
1/4" = 1'-0"



3 PILASTER PLAN DETAIL
1/4" = 1'-0"

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www.pbk.com
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HOUSTON, TX
713-865-6008

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Galena Park, TX 77547
ISSUE FOR PROPOSAL

Kubala ENGINEERS
www.kubalaengineers.com
TBPE No. F-23612
TX: 832.651.1647 / 2812

Galena Park ISD

F

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI
DRAWN BY: CML

FOUNDATION PLAN - MISC

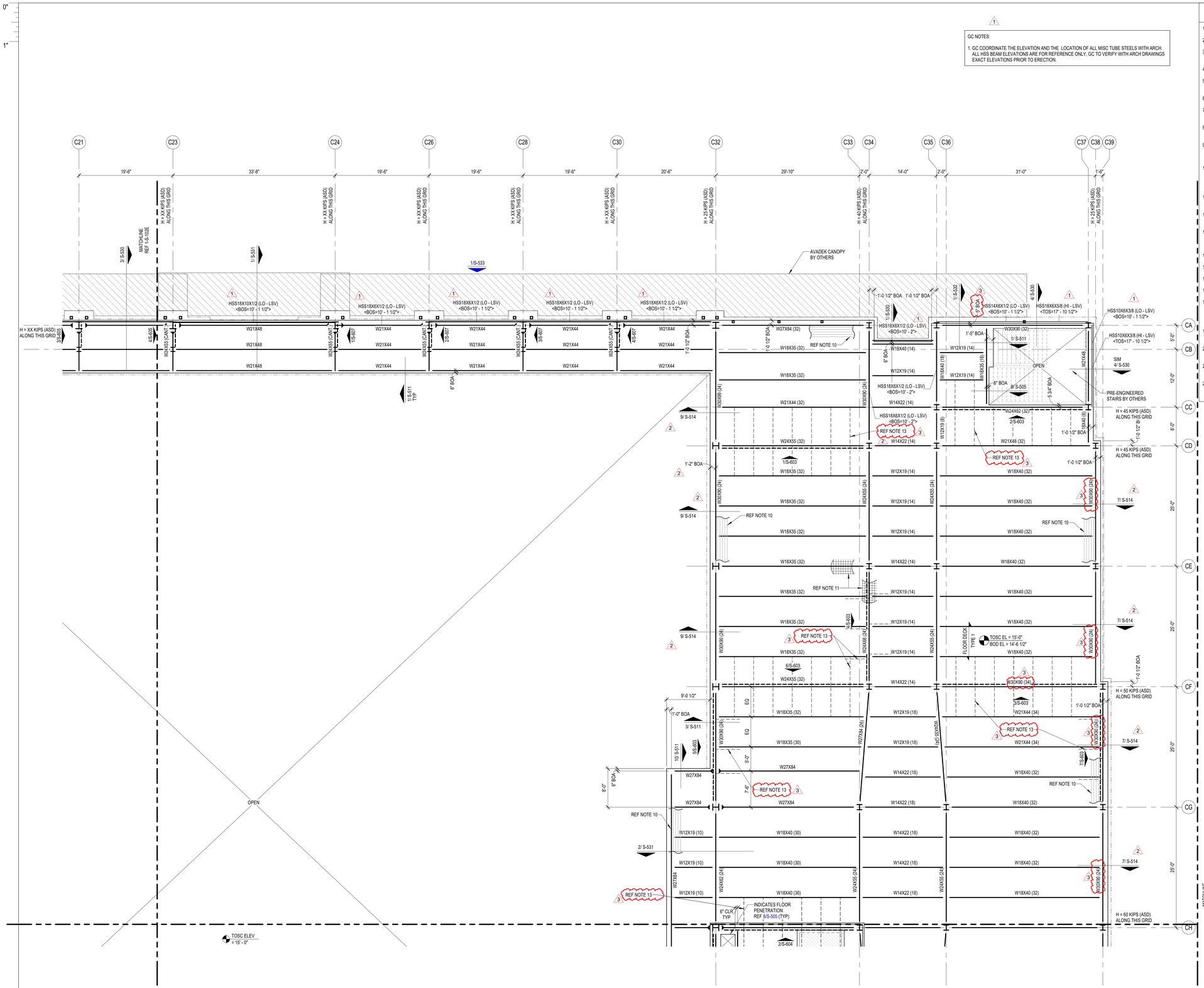
S-101M

Plot Stamp:
1/8/2026 2:17:12 PM

SECOND FLOOR FRAMING PLAN - AREA C

S-102C

FOR BLUEBEAM LABELING/DOOR:



1 SECOND FLOOR FRAMING PLAN - AREA C
1/8" = 1'-0"

GC NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.

COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0"
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
6. TOS EL = BOTTOM OF DECK.
7. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
8. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
9. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
10. PROVIDE ADDITIONAL (5) - #5 CONT. BARS IN COMPOSITE SLAB ALONG FULL PERIMETER OF SLAB AND AROUND OPENINGS. EXTEND BARS 10'-0" PAST CORNERS OF OPENINGS. PROVIDE STD HOOK AT TERMINATION ENDS. ALL LAPS IN REINFORCING SHALL BE WITH MECHANICAL COUPLERS OR 20'-0" LAP SPLICE (TYP). REFER TO DETAIL 1/S-504 .
11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505TYP ALONG ENTIRE GRIDAT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505 .
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
16. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
18. XXXX - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
19. INDICATES PLAN DIAGONAL STRUT W75X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
21. REF DETAIL 5/S-513 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2. REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-505 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

QC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=XX K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=XX K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

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ISSUE FOR PROPOSAL

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TBPE/TBPLS Firm No. 20101500
TX. REG. NO. F-23612

Galena Park ISD

C

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025

Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI

DRAWN BY: CML

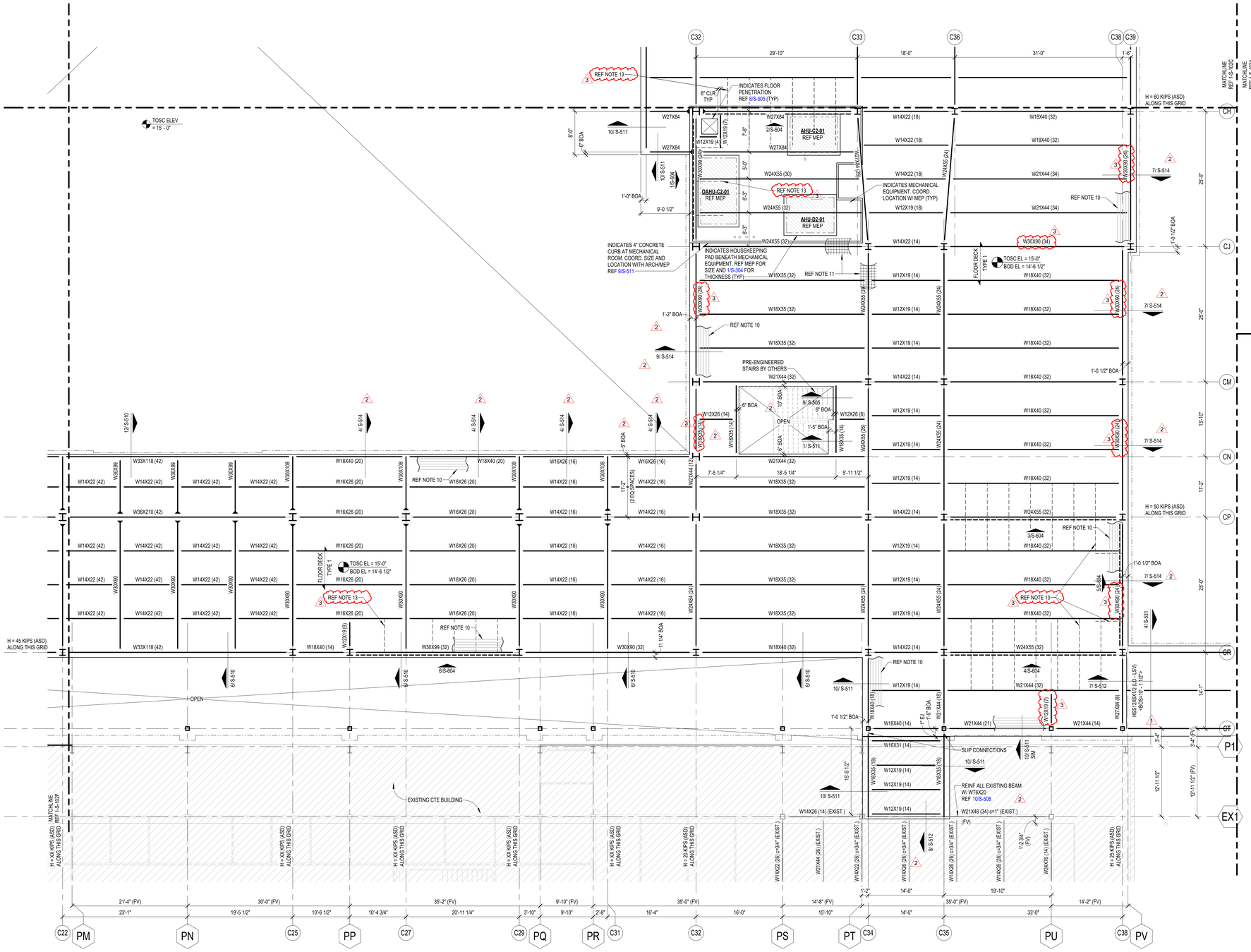
SECOND FLOOR FRAMING PLAN - AREA C

S-102C

Plot Stamp:
1/8/2026 2:17:14 PM

0"
1"

SECOND FLOOR FRAMING PLAN - AREA D
S-102D
FOR BLUEBEAM LABELING/DOOR:



1 SECOND FLOOR FRAMING PLAN - AREA D
1/8" = 1'-0"

COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0"
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
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COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
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FLOOR DECK TYPE 2:
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METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
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ISSUE FOR PROPOSAL

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TEL 832.831.1260

Galena Park ISD

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI
DRAWN BY: CML

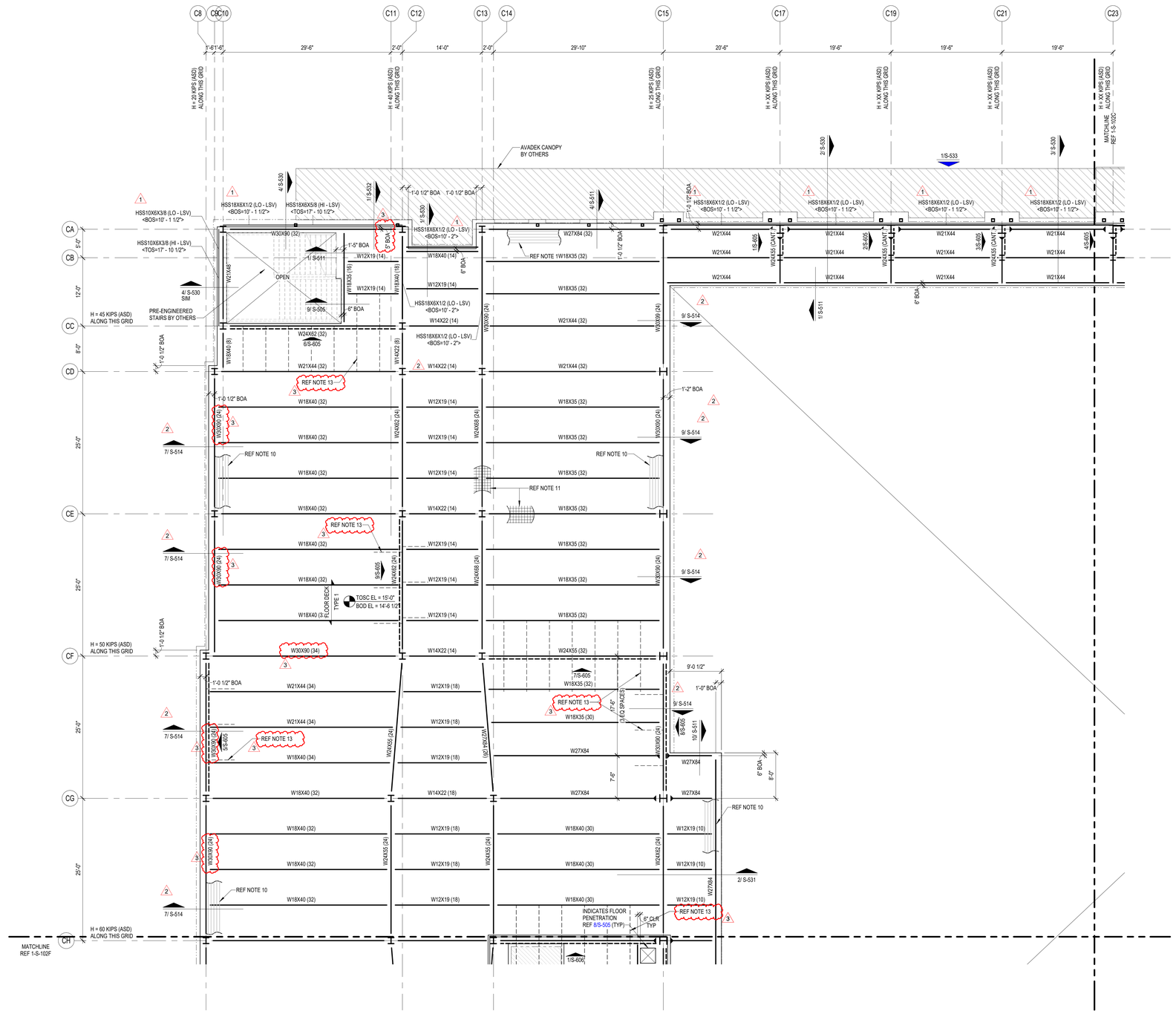
SECOND FLOOR FRAMING PLAN - AREA D

S-102D

Plot Stamp:
1/8/2026 2:17:17 PM

SECOND FLOOR FRAMING PLAN - AREA E
S-102E
FOR BLUEBEAM LABELING/DOOR:

0"
1"



COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0"
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
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COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2. REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-505 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=X/X K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=X/X K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

1

GC NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.

1 SECOND FLOOR FRAMING PLAN - AREA E
1/8" = 1'-0"

PBK
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TX FIRM: BR 1608
HOUSTON, TX
713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Kubala Engineers
www.kubalaengineers.com
Phone: 832-595-8004
TX REG: No. F-23612

Galena Park ISD
EXCELLENCE IN ALL TOGETHER

E

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI
DRAWN BY: CML

SECOND FLOOR FRAMING PLAN - AREA E

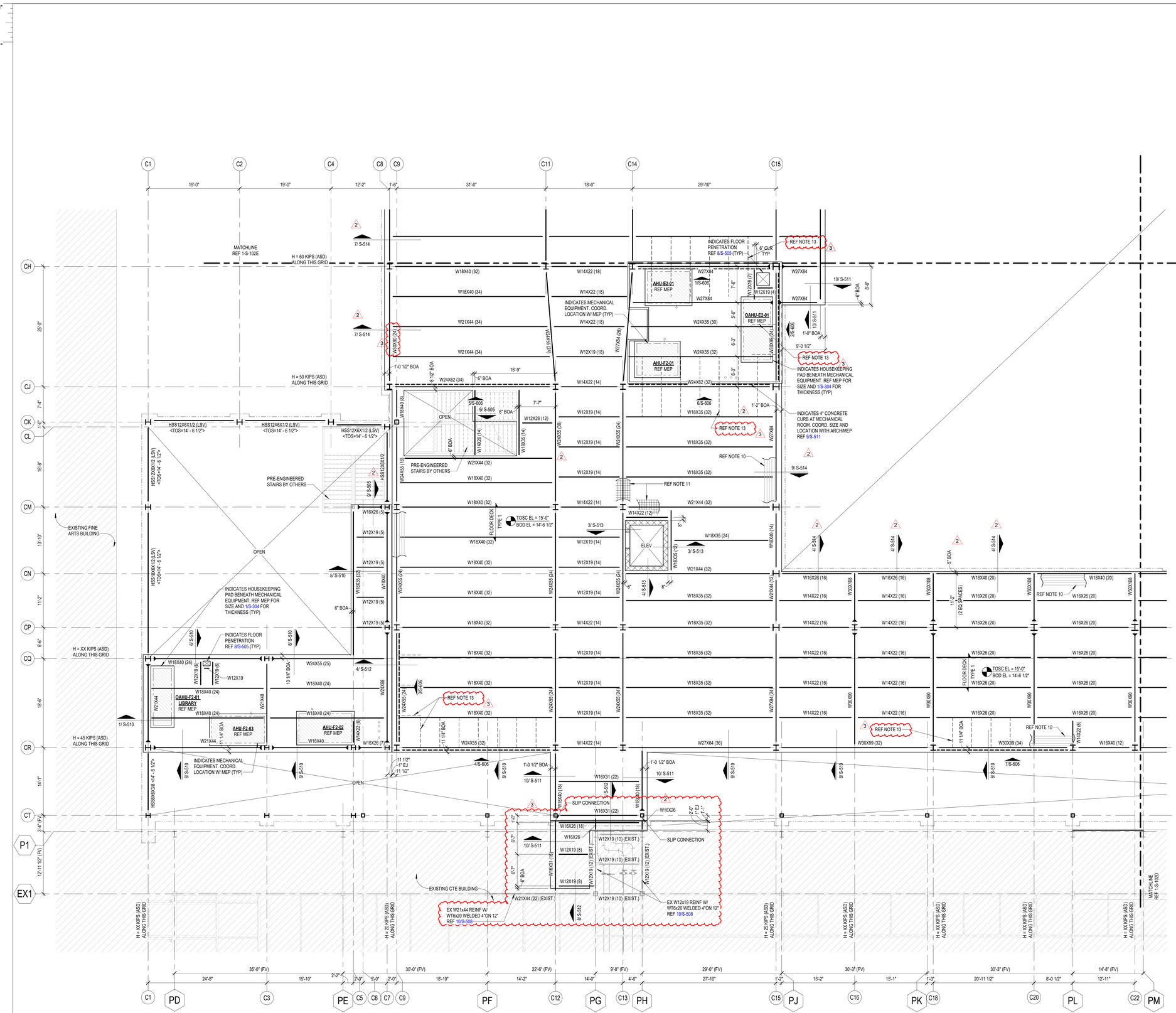
S-102E

Plot Stamp:
1/8/2026 2:17:19 PM

SECOND FLOOR FRAMING PLAN - AREA F

S-102F

FOR BLUEBEAM LABELING/DOOR:



COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0"
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
6. TOS EL = BOTTOM OF DECK.
7. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
8. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
9. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
10. PROVIDE ADDITIONAL (5) - #5 CONT. BARS IN COMPOSITE SLAB ALONG FULL PERIMETER OF SLAB AND AROUND OPENINGS. EXTEND BARS 10'-0" PAST CORNERS OF OPENINGS. PROVIDE STD HOOK AT TERMINATION ENDS. ALL LAPS IN REINFORCING SHALL BE WITH MECHANICAL COUPLERS OR 20'-0" LAP SPLICE (TYP). REFER TO DETAIL 1/S-504 .
11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505TYP ALONG ENTIRE GRIDAT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505 .
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
16. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
18. ⊠ - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
19. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
21. REF DETAIL 5/S-513 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED [DOG LEG DOWN], TYP.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2 REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=XX K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=XX K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

1

GC NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.

1 SECOND FLOOR FRAMING PLAN - AREA F
1/8" = 1'-0"

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TX FIRM: BR 1608
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713-865-0008

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1000 Keene St.
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ISSUE FOR PROPOSAL

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TX. REG. NO. F-23612

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
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December 5, 2025	240539

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3	ADDENDUM 05	01/08/2026

CHECKED BY: SI
DRAWN BY: CML

SECOND FLOOR FRAMING PLAN - AREA F

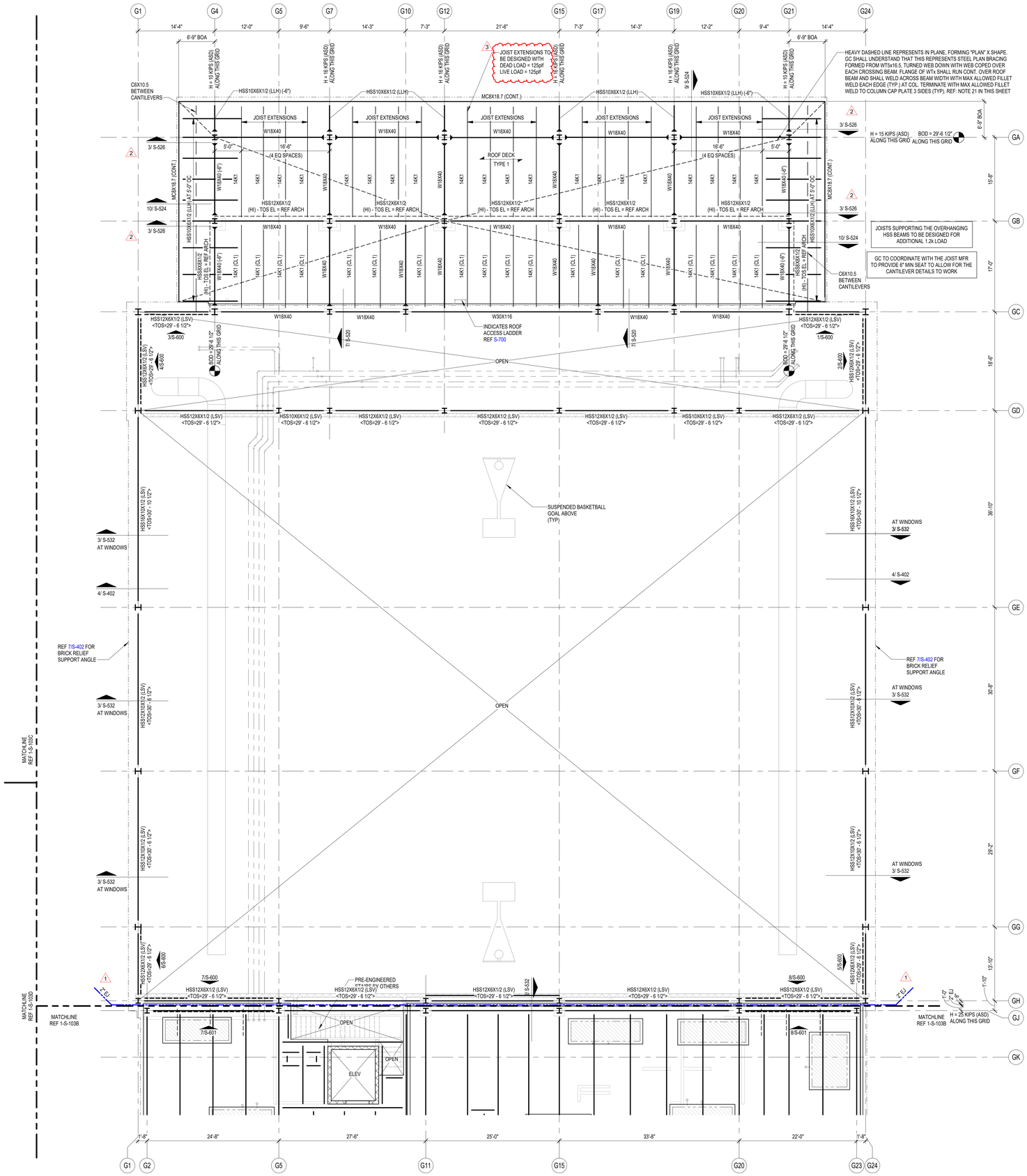
S-102F

Plot Stamp:
1/8/2026 2:17:22 PM

THIRD FLOOR LOW ROOF FRAMING PLAN - AREA A

S-103A

FOR BLUEBEAM LABELING/DOOR:



ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
   BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. ——— - - - ——— INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507.
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.
26. WHERE K-JOISTS AND LH-JOISTS BEAR ON THE SAME BEAM, K-JOISTS SEAT TO MATCH LH-JOIST SEAT
27. PIPES AND DUCTS ARE SHOWN GRAPHICALLY FOR REFERENCE ONLY. GC TO COORDINATE WITH MEP DRAWINGS TO DETERMINE THE EXACT LOCATION AND LAYOUT.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

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ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

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NOTES:

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2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2. REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

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JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD LOAD IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS. JOISTS SUPPORTING THESE CONCENTRATED DEAD LOADS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. DESIGN JOISTS FOR THE FOLLOWING "CL" DESIGNATIONS WHERE SHOWN ON THE FRAMING PLANS:

1. CL1 - 750 POUNDS LOCATED 1'-6" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - 250 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
3. CL3 - 450 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
4. CL4 - 700 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

1

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1 LOW ROOF FRAMING PLAN - AREA A

1/8" = 1'-0"

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HOUSTON, TX
713.865.6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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ISSUE FOR PROPOSAL

Kubala ENGINEERS
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TBPE REG. NO. F-23612
TEL 832.831.7001

Galena Park ISD

A

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

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CHECKED BY: SI

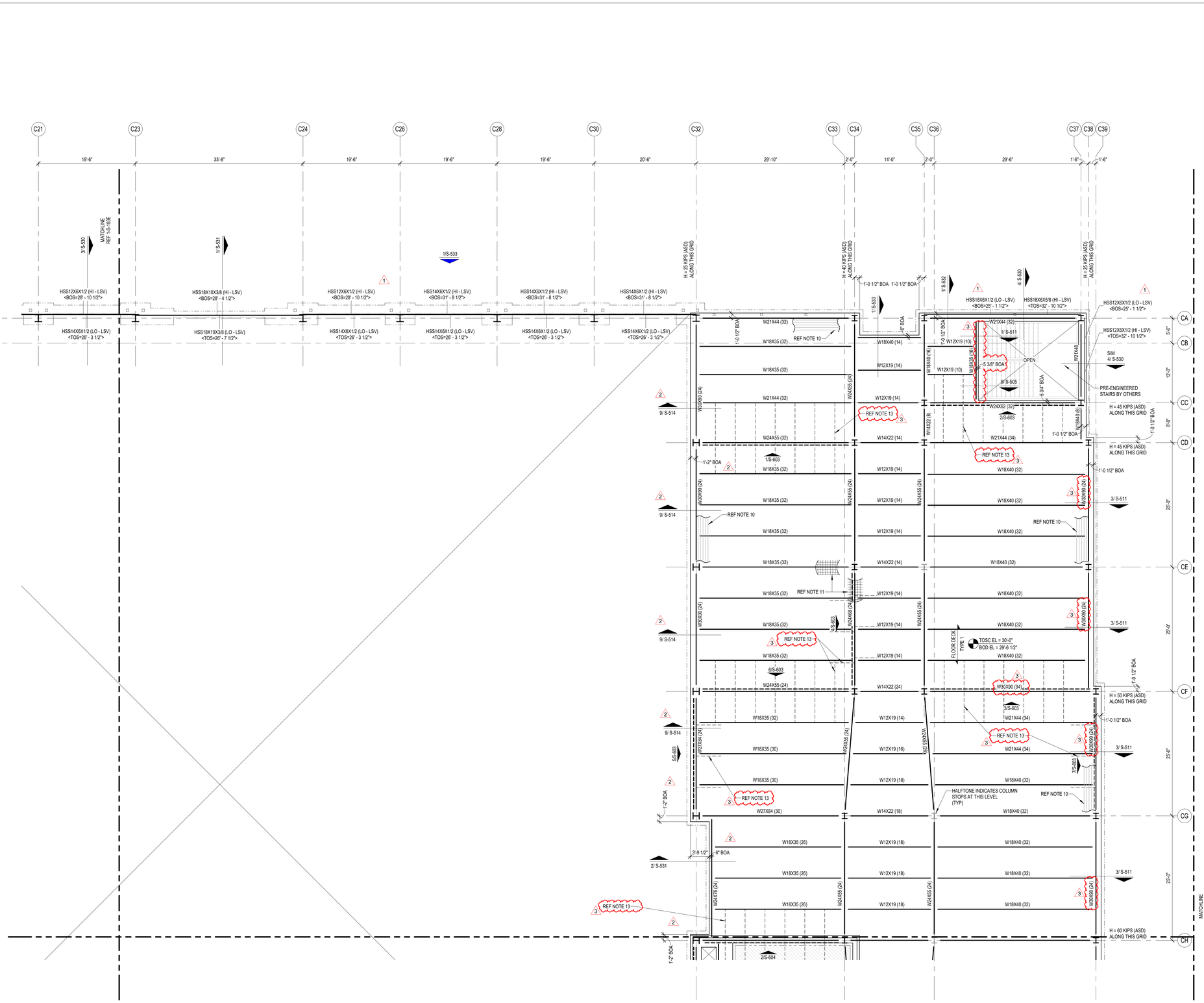
DRAWN BY: CML

THIRD FLOOR LOW ROOF FRAMING PLAN - AREA A

S-103A

Plot Stamp:
1/8/2026 2:17:25 PM

THIRD FLOOR FRAMING PLAN - AREA C
S-103C
FOR BLUEBEAM LABELING/DOOR:


C21
C23
C24
C26
C28
C30
C32
C33
C34
C35
C36
C37
C38
C39
19'-6"
33'-8"
19'-6"
19'-6"
19'-6"
20'-6"
29'-10"
2'-0"
14'-0"
2'-0"
29'-6"
1'-6"
1'-6"
3/ S-530
MATCHLINE REF 1-S-103E
1/ S-531
1/S-533
HSS12X6X1/2 (HI - LSV) <BOS=28' - 10 1/2">
HSS14X6X1/2 (LO - LSV) <TOS=26' - 3 1/2">
HSS18X10X3/8 (HI - LSV) <BOS=28' - 4 1/2">
HSS18X10X3/8 (LO - LSV) <TOS=26' - 7 1/2">
HSS12X6X1/2 (HI - LSV) <BOS=28' - 10 1/2">
HSS14X6X1/2 (LO - LSV) <TOS=26' - 3 1/2">
HSS14X6X1/2 (HI - LSV) <BOS=31' - 8 1/2">
HSS14X6X1/2 (LO - LSV) <TOS=26' - 3 1/2">
HSS14X6X1/2 (HI - LSV) <BOS=31' - 8 1/2">
HSS14X6X1/2 (LO - LSV) <TOS=26' - 3 1/2">
H = 25 KIPS (ASD) ALONG THIS GRID
H = 40 KIPS (ASD) ALONG THIS GRID
1'-0 1/2" BOA
1'-0 1/2" BOA
1/S-530
6" BOA
1/S-532
4/ S-530
HSS18X6X1/2 (LO - LSV) <BOS=25' - 1 1/2">
HSS18X6X5/8 (HI - LSV) <TOS=32' - 10 1/2">
HSS12X6X1/2 (LO - LSV) <BOS=29' - 1 1/2">
HSS12X6X1/2 (HI - LSV) <TOS=32' - 10 1/2">
H = 25 KIPS (ASD) ALONG THIS GRID
W21X44 (32)
REF NOTE 10
W18X35 (32)
W18X40 (14)
W12X19 (14)
W12X19 (10)
W18X40 (16)
W30X90 (24)
W24X55 (24)
W21X44 (32)
W12X19 (14)
W24X62 (32)
W14X22 (8)
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W12X19 (18)
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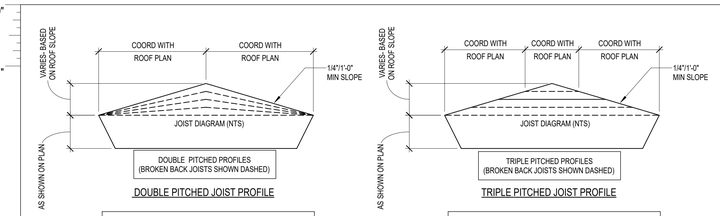
W27X178 (24)
W18X40 (32)
W12X19 (18)
REF NOTE 13
REF NOTE 11
REF NOTE 10
OPEN
SIM 4/ S-530
PRE-ENGINEERED STAIRS BY OTHERS
5 3/8" BOA
5 3/4" BOA
2/S-603
1'-0 1/2" BOA
1'-0 1/2" BOA
1'-0 1/2" BOA

THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA D
S-103D
FOR BLUEBEAM LABEL/INDOOR:



DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

TRIPLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD LOAD IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS. JOISTS SUPPORTING THESE CONCENTRATED DEAD LOADS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. DESIGN JOISTS FOR THE FOLLOWING "CL" DESIGNATIONS WHERE SHOWN ON THE FRAMING PLANS:

1. CL1 - 750 POUNDS LOCATED 1'-6" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - 250 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
3. CL3 - 450 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
4. CL4 - 700 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=XX K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 50 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=XX K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

GC PLEASE NOTE:

1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
3. GC TO PROVIDE CONT 4X4X1/4 THICK BENT PLATE ALONG THE RIDGE, HIP, AND VALLEY LINES TO SUPPORT DECKING AT WRAP (TYP).
4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402 THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2. REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. ——— – – – ——— INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. V - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507.
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.
26. WHERE K-JOISTS AND LH-JOISTS BEAR ON THE SAME BEAM, K-JOISTS SEAT TO MATCH LH-JOIST SEAT
27. PIPES AND DUCTS ARE SHOWN GRAPHICALLY FOR REFERENCE ONLY. GC TO COORDINATE WITH MEP DRAWINGS TO DETERMINE THE EXACT LOCATION AND LAYOUT.

COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0"
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
6. TOS EL = BOTTOM OF DECK.
7. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
8. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
9. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
10. PROVIDE ADDITIONAL (5) - #5 CONT. BARS IN COMPOSITE SLAB ALONG FULL PERIMETER OF SLAB AND AROUND OPENINGS. EXTEND BARS 10'-0" PAST CORNERS OF OPENINGS. PROVIDE STD HOOK AT TERMINATION ENDS. ALL LAPS IN REINFORCING SHALL BE WITH MECHANICAL COUPLERS OR 20'-0" LAP SPLICE (TYP). REFER TO DETAIL 1/S-504.
11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505TYP ALONG ENTIRE GRIDAT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505.
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
16. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
18. ▨ - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
19. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
21. REF DETAIL 5/S-513 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.

GC NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.

1 THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA D
1/8" = 1'-0"

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-865-6008
Kubala Engineers
www.kubalaengineers.com
713-465-1447
TX: REG. NO. F-23612

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St,
Galena Park, TX 77547
ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI

DRAWN BY: CML

THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA D

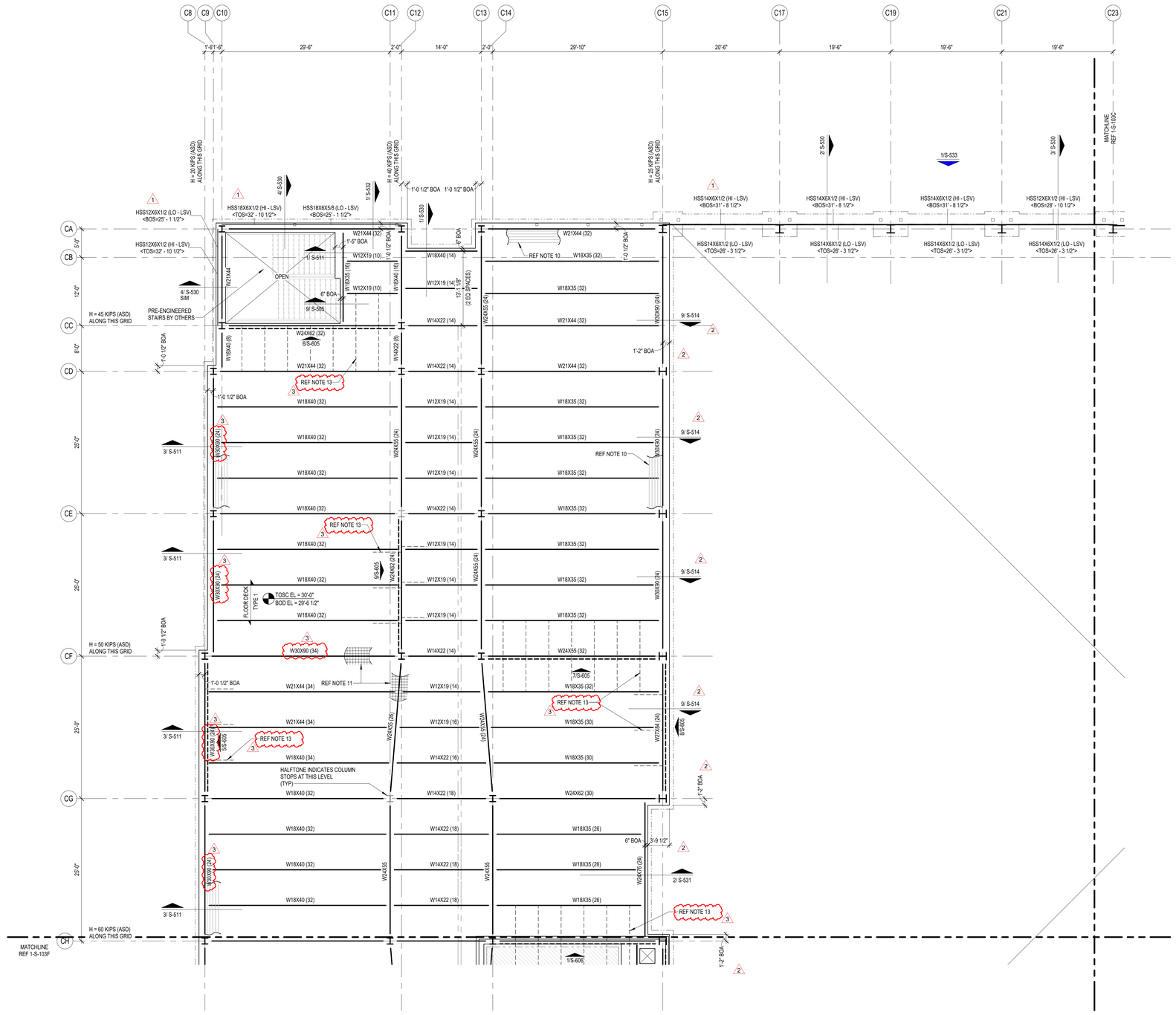
S-103D

Plot Stamp:
1/8/2026 2:17:29 PM

THIRD FLOOR FRAMING PLAN - AREA E

S-103E

FOR BLUEBEAM LABELING/DOOR:



COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0"
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
6. TOS EL = BOTTOM OF DECK.
7. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
8. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
9. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
10. PROVIDE ADDITIONAL (5) - #5 CONT. BARS IN COMPOSITE SLAB ALONG FULL PERIMETER OF SLAB AND AROUND OPENINGS. EXTEND BARS 10'-0" PAST CORNERS OF OPENINGS. PROVIDE STD HOOK AT TERMINATION ENDS. ALL LAPS IN REINFORCING SHALL BE WITH MECHANICAL COUPLERS OR 20'-0" LAP SPLICE (TYP). REFER TO DETAIL 1/S-504 .
11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505TYP ALONG ENTIRE GRIDAT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505 .
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
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17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
18. XXXX - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
19. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
21. REF DETAIL 5/S-513 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2. REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=X/X K (ASD)." IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=X/X K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

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1 THIRD FLOOR FRAMING PLAN - AREA E
1/8" = 1'-0"

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-865-0008
Kubala Engineers
www.kubalaengineers.com
TEL 832-831-1291

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

E

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI

DRAWN BY: CML

THIRD FLOOR FRAMING PLAN - AREA E

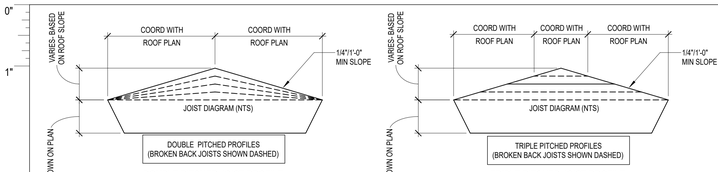
S-103E

Plot Stamp:
1/8/2026 2:17:31 PM

THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA F

S-103F

FOR BLUEBEAM LABEL/INDOOR:



DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

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1. CL1 - 750 POUNDS LOCATED 1'-6" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - 250 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
3. CL3 - 450 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
4. CL4 - 700 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=XX K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 50 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=XX K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

GC PLEASE NOTE:

1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE. HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
3. GC TO PROVIDE CONT 4X4X1/4 THICK BENT PLATE ALONG THE RIDGE, HIP, AND VALLEY LINES TO SUPPORT DECKING AT WRAP (TYP).
4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402 THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2. REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. ——— – – – ——— INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. V - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507.
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 KLF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.
26. WHERE K-JOISTS AND LH-JOISTS BEAR ON THE SAME BEAM, K-JOISTS SEAT TO MATCH LH-JOIST SEAT
27. PIPES AND DUCTS ARE SHOWN GRAPHICALLY FOR REFERENCE ONLY. GC TO COORDINATE WITH MEP DRAWINGS TO DETERMINE THE EXACT LOCATION AND LAYOUT.

COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0"
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
6. TOS EL = BOTTOM OF DECK.
7. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
8. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
9. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
10. PROVIDE ADDITIONAL (5) - #5 CONT. BARS IN COMPOSITE SLAB ALONG FULL PERIMETER OF SLAB AND AROUND OPENINGS. EXTEND BARS 10'-0" PAST CORNERS OF OPENINGS. PROVIDE STD HOOK AT TERMINATION ENDS. ALL LAPS IN REINFORCING SHALL BE WITH MECHANICAL COUPLERS OR 20'-0" LAP SPLICE (TYP). REFER TO DETAIL 1/S-504.
11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505TYP ALONG ENTIRE GRIDAT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505 .
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
16. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
18. XXXX - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
19. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
21. REF DETAIL 5/S-513 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.

GC NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.

1 THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA F
1/8" = 1'-0"

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HOUSTON, TX
713.865.6008
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Kubala ENGINEERS
www.kubalaengineers.com
713.467.1000
TX: 4425 | NO: F-23612

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT: Galena Park ISD

DATE: December 5, 2025

PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI

DRAWN BY: CML

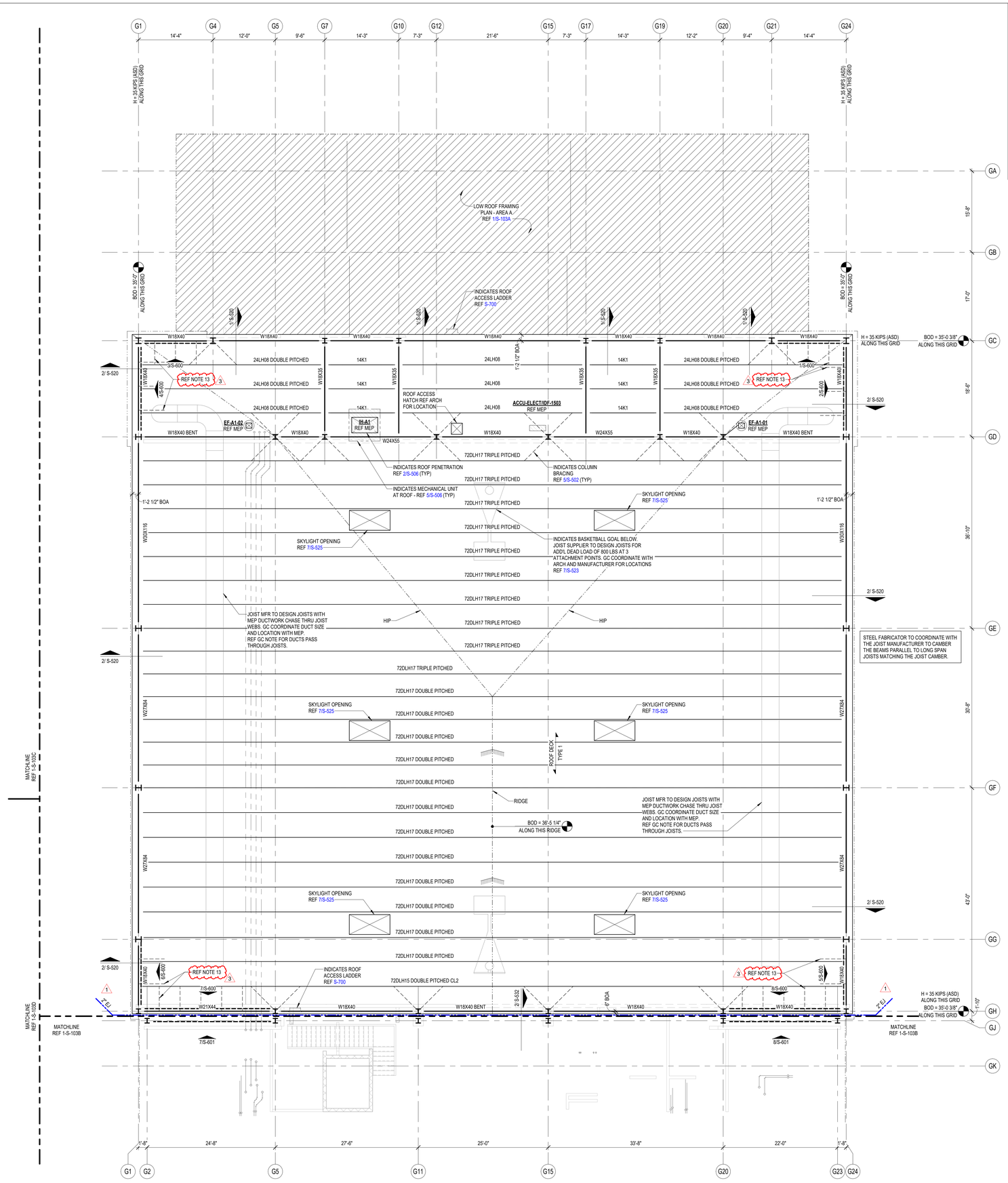
THIRD FLOOR AND LOW ROOF FRAMING PLAN - AREA F

S-103F

Plot Stamp:
1/8/2026 2:17:34 PM

GYM LOW ROOF FRAMING PLAN - AREA A
S-104A

FOR BLUEBEAM LABELING/DOOR:



GC PLEASE NOTE:

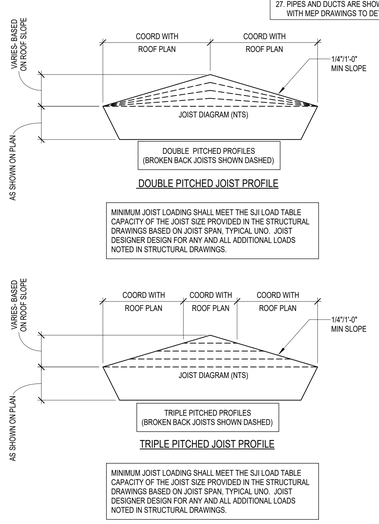
1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
3. GC TO PROVIDE CONT 4X4X1/4 THICK BENT PLATE ALONG THE RIDGE, HIP, AND VALLEY LINES TO SUPPORT DECKING AT WRAP (TYP).
4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402. THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=XX K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=XX K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
   BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION. TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. ——— - - - ——— INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. \ / - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507.
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADDTL DL= 2.0 K (PERP.) OR DL= 0.5 K/LF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.
26. WHERE K-JOISTS AND LH-JOISTS BEAR ON THE SAME BEAM, K-JOISTS SEAT TO MATCH LH-JOIST SEAT
27. PIPES AND DUCTS ARE SHOWN GRAPHICALLY FOR REFERENCE ONLY. GC TO COORDINATE WITH MEP DRAWINGS TO DETERMINE THE EXACT LOCATION AND LAYOUT.



MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2 REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD LOAD IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS. JOISTS SUPPORTING THESE CONCENTRATED DEAD LOADS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. DESIGN JOISTS FOR THE FOLLOWING "CL" DESIGNATIONS WHERE SHOWN ON THE FRAMING PLANS:

1. CL1 - 750 POUNDS LOCATED 1'-6" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - 250 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
3. CL3 - 450 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
4. CL4 - 700 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

1 GYM ROOF FRAMING PLAN - AREA A
1/8" = 1'-0"

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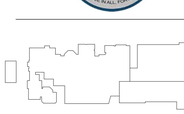
Galena Park, TX 77547

ISSUE FOR PROPOSAL



KEY PLAN
NORTH: PLAN TRUE

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI

DRAWN BY: CML

GYM LOW ROOF FRAMING PLAN - AREA A

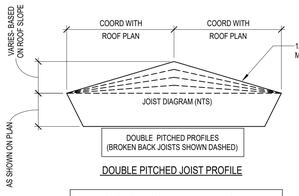
S-104A

Plot Stamp:
1/8/2026 2:17:35 PM

CLASSROOM LOW ROOF FRAMING PLAN - AREA C
S-104C

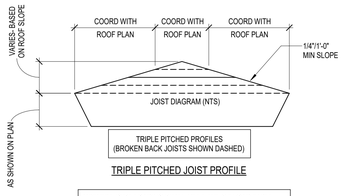
FOR BLUEBEAM LABEL/NGOOR:

0"
1"



DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.



TRIPLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD LOAD IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS. JOISTS SUPPORTING THESE CONCENTRATED DEAD LOADS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. DESIGN JOISTS FOR THE FOLLOWING "CL" DESIGNATIONS WHERE SHOWN ON THE FRAMING PLANS:

1. CL1 - 750 POUNDS LOCATED 1'-6" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - 250 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
3. CL3 - 450 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
4. CL4 - 700 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=XX.K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=XX.K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

GC PLEASE NOTE:

1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
3. GC TO PROVIDE CONT 4X4X1/4 THICK BENT PLATE ALONG THE RIDGE, HIP, AND VALLEY LINES TO SUPPORT DECKING AT WRAP (TYP).
4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402 THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
   BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. ——— - - - ——— INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. ⟋⟍ - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507.
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 K/LF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.
26. WHERE K-JOISTS AND LH-JOISTS BEAR ON THE SAME BEAM, K-JOISTS SEAT TO MATCH LH-JOIST SEAT
27. PIPES AND DUCTS ARE SHOWN GRAPHICALLY FOR REFERENCE ONLY. GC TO COORDINATE WITH MEP DRAWINGS TO DETERMINE THE EXACT LOCATION AND LAYOUT.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

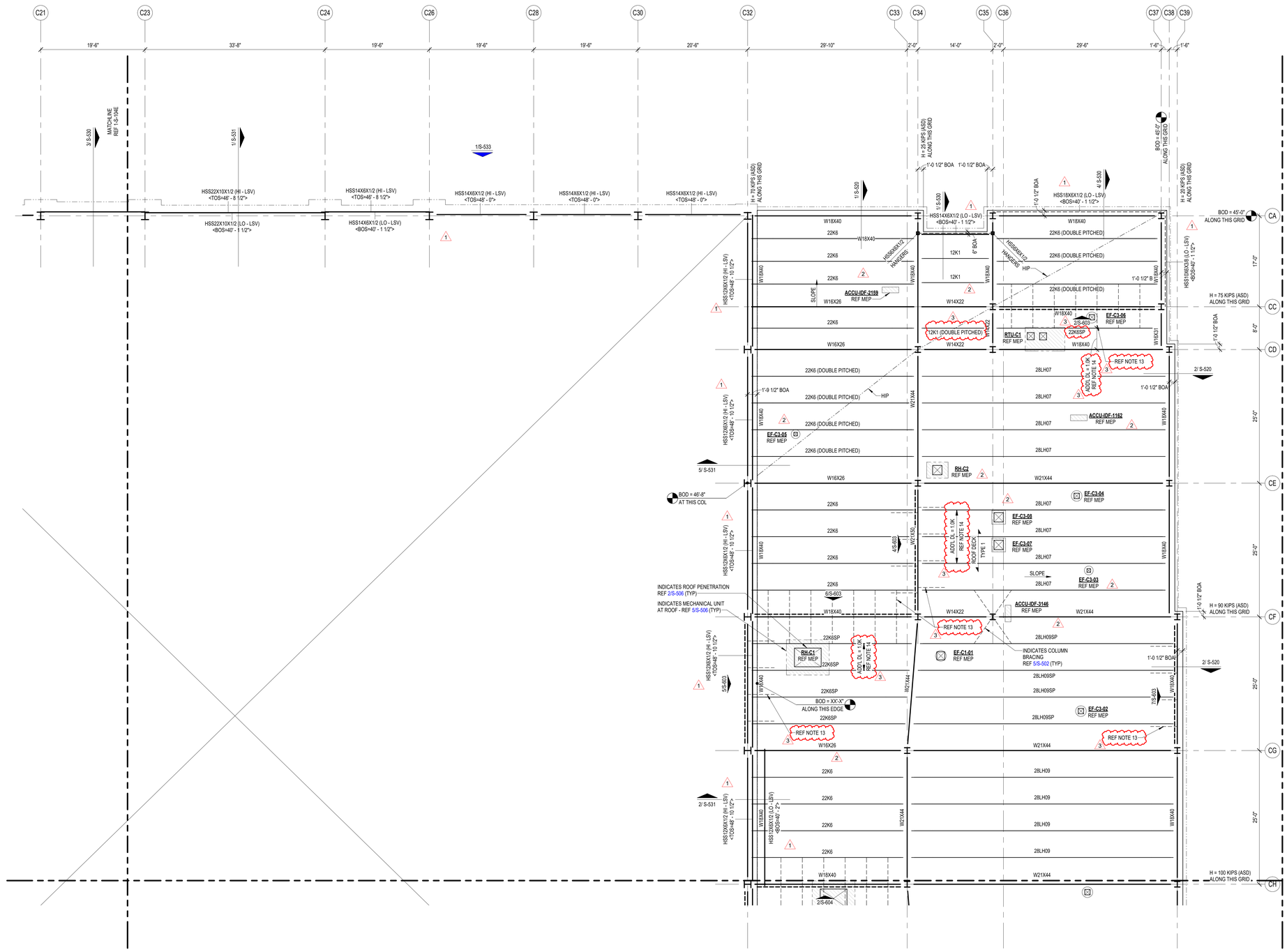
METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-004 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2 REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.



1 CLASSROOM LOW ROOF FRAMING PLAN - AREA C
1/8" = 1'-0"

GC NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-865-6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Kubala ENGINEERS
www.kubalaengineers.com
713-467-7474
TX REG: NO. F-23612

KEY PLAN
NORTH: PLAN TRUE

12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI

DRAWN BY: CML

CLASSROOM LOW ROOF FRAMING PLAN - AREA C

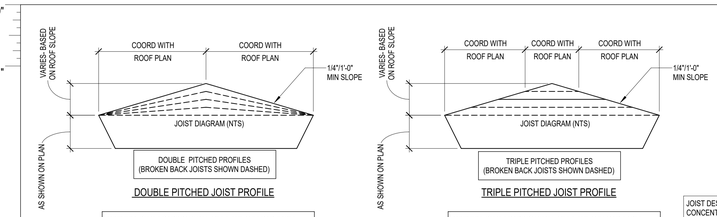
S-104C

Plot Stamp:
1/8/2026 2:17:37 PM

CLASSROOM LOW ROOF AND FLOOR FRAMING PLAN - AREA D

S-104D

FOR BLUEBEAM LABELING/OCR:



DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

TRIPLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

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1. CL1 - 750 POUNDS LOCATED 1'-6" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - 250 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
3. CL3 - 450 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
4. CL4 - 700 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=XX K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 50 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=XX K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

GC PLEASE NOTE:

1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE. HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
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4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402 THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2. REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

ROOF PLAN NOTES

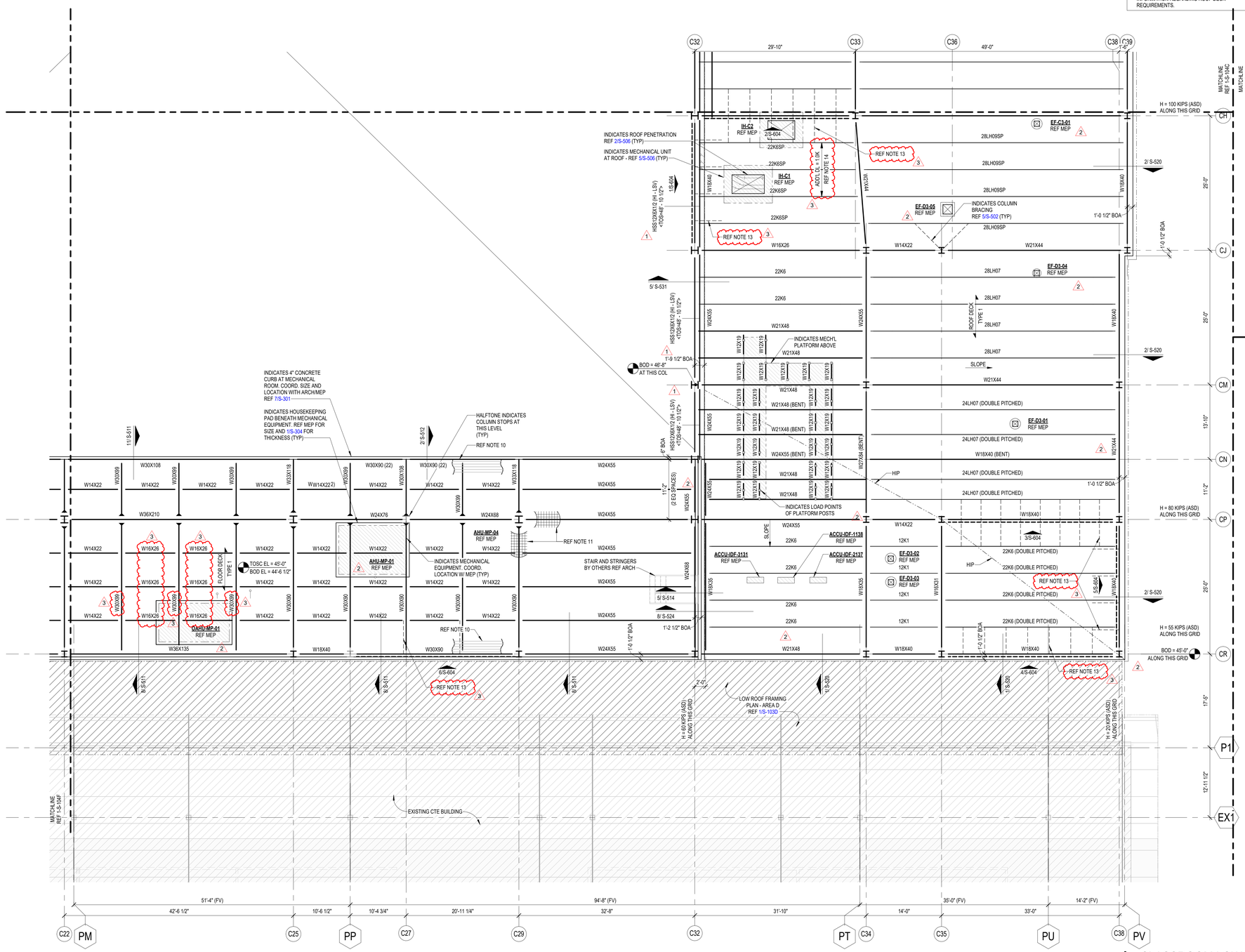
1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. ——— - - - ——— INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. ⋁ - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507.
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 K/LF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.
26. WHERE K-JOISTS AND LH-JOISTS BEAR ON THE SAME BEAM, K-JOISTS SEAT TO MATCH LH-JOIST SEAT
27. PIPES AND DUCTS ARE SHOWN GRAPHICALLY FOR REFERENCE ONLY. GC TO COORDINATE WITH MEP DRAWINGS TO DETERMINE THE EXACT LOCATION AND LAYOUT.

COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0"
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
6. TOS EL = BOTTOM OF DECK.
7. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
8. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
9. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
10. PROVIDE ADDITIONAL (5) - #5 CONT. BARS IN COMPOSITE SLAB ALONG FULL PERIMETER OF SLAB AND AROUND OPENINGS. EXTEND BARS 10'-0" PAST CORNERS OF OPENINGS. PROVIDE STD HOOK AT TERMINATION ENDS. ALL LAPS IN REINFORCING SHALL BE WITH MECHANICAL COUPLERS OR 20'-0" LAP SPLICE (TYP). REFER TO DETAIL 1/S-504 .
11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505 TYP ALONG ENTIRE GRID AT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505 .
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
16. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
18. ▨ - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
19. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
21. REF DETAIL 5/S-513 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.

GC NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.



1 CLASSROOM LOW ROOF AND FLOOR FRAMING PLAN - AREA D
1/8" = 1'-0"

Plot Stamp:
1/8/2026 2:17:39 PM

PBK
www.pbk.com
TX FIRM: BR 1608
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713-865-6008

Kubala ENGINEERS
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TEL 832.567.7260

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI

DRAWN BY: CML

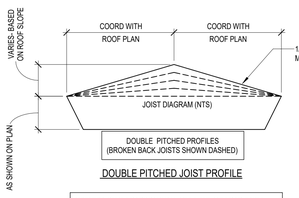
CLASSROOM LOW ROOF AND FLOOR FRAMING PLAN - AREA D

S-104D

CLASSROOM LOW ROOF FRAMING PLAN - AREA E
S-104E

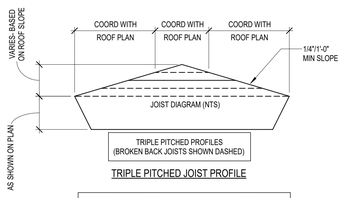
FOR BLUEBEAM LABELING/OCR:

0"
1"



DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.



TRIPLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD LOAD IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS. JOISTS SUPPORTING THESE CONCENTRATED DEAD LOADS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. DESIGN JOISTS FOR THE FOLLOWING "CL" DESIGNATIONS WHERE SHOWN ON THE FRAMING PLANS:

1. CL1 - 750 POUNDS LOCATED 1'-6" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - 250 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
3. CL3 - 450 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
4. CL4 - 700 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=XX K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 80 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=XX K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

GC PLEASE NOTE:

1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
3. GC TO PROVIDE CONT 4X4X1/4 THICK BENT PLATE ALONG THE RIDGE, HIP, AND VALLEY LINES TO SUPPORT DECKING AT WRAP (TYP).
4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402 THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
   BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. ——— - - - ——— INDICATES PIPING RUN. REF MEP DRAWINGS. GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. V - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507.
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 K/LF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS,UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.
26. WHERE K-JOISTS AND LH-JOISTS BEAR ON THE SAME BEAM, K-JOISTS SEAT TO MATCH LH-JOIST SEAT
27. PIPES AND DUCTS ARE SHOWN GRAPHICALLY FOR REFERENCE ONLY. GC TO COORDINATE WITH MEP DRAWINGS TO DETERMINE THE EXACT LOCATION AND LAYOUT.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2 REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

1

GC NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.

1 CLASSROOM LOW ROOF FRAMING PLAN - AREA E
1/8" = 1'-0"

PBK
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TX FIRM: BR 1608
HOUSTON, TX
713.865.6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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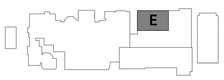
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Kubala ENGINEERS
www.kubalaengineers.com
TBPE FIRM # 20012
TX. REG'S NO.T-20012

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI

DRAWN BY: CML

CLASSROOM LOW ROOF FRAMING PLAN - AREA E

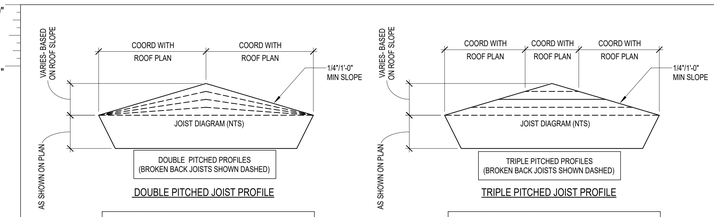
S-104E

Plot Stamp:
1/8/2026 2:17:41 PM

CLASSROOM LOW ROOF AND FLOOR FRAMING PLAN - AREA F

S-104F

FOR BLUEBEAM LABEL/INDOOR:



DOUBLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

TRIPLE PITCHED JOIST PROFILE

MINIMUM JOIST LOADING SHALL MEET THE SJI LOAD TABLE CAPACITY OF THE JOIST SIZE PROVIDED IN THE STRUCTURAL DRAWINGS BASED ON JOIST SPAN, TYPICAL UNO. JOIST DESIGNER DESIGN FOR ANY AND ALL ADDITIONAL LOADS NOTED IN STRUCTURAL DRAWINGS.

JOIST DESIGNATIONS, SHOWN ON THE FRAMING PLANS, FOLLOWED BY THE DESIGNATION "CL" SUPPORT A CONCENTRATED DEAD LOAD. THE JOIST SIZES DESIGNATED ON THE FRAMING PLANS DO NOT TAKE INTO ACCOUNT THIS CONCENTRATED DEAD LOAD. THE JOIST MANUFACTURER SHALL DESIGN SPECIAL JOISTS TO SUPPORT THIS CONCENTRATED DEAD LOAD IN ADDITION TO THE TOTAL LOAD CAPACITY PROVIDED IN THE SJI LOAD TABLES FOR THE JOISTS SPECIFIED ON THE FRAMING PLANS. JOISTS SUPPORTING THESE CONCENTRATED DEAD LOADS SHALL BE FABRICATED SYMMETRICALLY ABOUT THEIR CENTERLINE. DESIGN JOISTS FOR THE FOLLOWING "CL" DESIGNATIONS WHERE SHOWN ON THE FRAMING PLANS:

1. CL1 - 750 POUNDS LOCATED 1'-6" FROM THE FACE OF THE SUPPORTING PANEL ADJACENT TO HIGH ROOF.
2. CL2 - 250 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
3. CL3 - 450 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.
4. CL4 - 700 POUNDS LOCATED 1'-6" FROM THE CENTERLINE OF THE SUPPORTING STEEL BEAM.

GC PLEASE NOTE:

WHERE HORIZONTAL H WIND FORCES ARE INDICATED ON THE STRUCTURAL PLANS AS "H=XX K (ASD)," IN CONJUNCTION WITH BRACE FRAMES, THE GENERAL CONTRACTOR IS REQUIRED TO ASSUME AN H LOAD OF 50 KIPS (ASD) ALONG THE ENTIRE GRID LINE OF BRACE FRAMES AT THE SECOND FLOORS, THIRD FLOORS, AND MEZZANINES. ADDITIONALLY, FOR HORIZONTAL H WIND FORCES INDICATED AS "H=XX K (ASD)" IN CONJUNCTION WITH BRACE FRAMES AT THE ROOFS, THE GENERAL CONTRACTOR SHOULD ASSUME AN H LOAD OF 65 KIPS (ASD) ALONG THE ENTIRE GRID LINE. THE GC HOLDS THE RESPONSIBILITY FOR DESIGNING CONNECTIONS THAT CAN ACCOMMODATE THESE SPECIFIED LOAD ASSUMPTIONS. FOR FURTHER GUIDANCE ON CONNECTION DESIGN, PLEASE REFER TO CONNECTION GENERAL NOTE SHEET S-500. TYP ALL AREAS.

GC PLEASE NOTE:

1. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE BEAMS, GIRDERS, AND PURLINS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE BENT AND HAVE FULL CAPACITY MOMENT CONNECTIONS AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A GIRDER BEAM OR PURLIN BEAM PASSES THROUGH A RIDGE LINE. HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH A PURLIN OR MAIN GIRDER BEAM. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ACCOUNT FOR THE FULL NUMBER OF ADDED MOMENT CONNECTIONS REQUIRED TO CREATE THE ROOF DECK SLOPES NEEDED FOR PROPER DRAINAGE.
2. FOR THE BASE BID OF THIS PROJECT, THE GC SHALL ACCOUNT FOR 100% OF THE JOISTS, CROSSING A HIP, VALLEY, AND RIDGE ROOF LINES TO BE DOUBLE OR TRIPLE PITCHED AS NEEDED AT EACH LOCATION. CHANGES IN ROOF DECK SLOPE LOCATIONS ARE DEFINED AS WHEN A JOIST PASSES THROUGH A RIDGE LINE, HIP LINE, OR VALLEY LINE. THE BEND LOCATIONS VARY BASED ON WHERE THE ROOF DECK SLOPE CHANGE INTERSECTS WITH JOIST. THE GC MUST COORDINATE WITH ROOF FRAMING PLANS AND ARCHITECTURAL DRAWINGS.
3. GC TO PROVIDE CONT 4X4X1/4 THICK BENT PLATE ALONG THE RIDGE, HIP, AND VALLEY LINES TO SUPPORT DECKING AT WRAP (TYP).
4. THE GENERAL CONTRACTOR IS REQUIRED TO PROVIDE A BRICK RELIEF ANGLE AT ANY POINT WHERE THE BRICK EXTENDS BEYOND THE ELEVATION OF 30'-0" AND IS SUPPORTED BY A CONCRETE MASONRY UNIT (CMU) BACKUP. PLEASE REFER TO DETAIL 7/S-402 THE BRICK RELIEF ANGLE SHOULD BE INSTALLED AT THE SECOND AND THIRD FLOORS WITHIN THE CLASSROOM AREAS AND ROTUNDA AS INDICATED IN COMPOSITE DETAILS AND SECTION CUTS ON PLANS.

COMPOSITE FLOOR DECK AND METAL ROOF DECK LEGEND

COMPOSITE FLOOR DECK TYPES

FLOOR DECK TYPE 1:
3 1/2" NWC ON 2" VLI 18 GA (GALV) (G90) COMPOSITE STEEL DECK (5 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

FLOOR DECK TYPE 2:
4 1/2" NWC ON 3.0 VLI 20 GA (GALV) (G90) COMPOSITE STEEL DECK (7 1/2" TOTAL SLAB THICKNESS). COMPOSITE SLAB SHALL BE REINFORCED WITH WWR 6x6-W2.9xW2.9, U.N.O.

METAL ROOF DECK TYPES

ROOF DECK TYPE 1:
1.0 CSV 20 GA (GALV.) (G90) VENTED MTL DECK.

ROOF DECK TYPE 2:
3PLN-32 DECK 20GA (GALV) (G90) MTL DECK

NOTES:

1. STEEL DECK SHALL BE PLACED WITH TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER-OF-RECORD.
2. REF SLABS FORM DECK (AT FLOORS) GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-504 FOR MORE INFORMATION REGARDING FLOOR DECK REQUIREMENTS.
2. REF METAL ROOF DECKING GENERAL NOTES AND METAL DECK SCHEDULE ON SHEET S-506 FOR MORE INFORMATION REGARDING ROOF DECK REQUIREMENTS.

ROOF PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0".
3. TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. REF ELEVATIONS NOTED ON PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES UNLESS SHOWN OTHERWISE.
4. JOIST MFR NOTE:
BRIDGING NOT SHOWN ON PLAN. MANUFACTURER SHALL PROVIDE STANDARD BRIDGING COMPLYING WITH SJI SPECIFICATIONS OF LATEST ADOPTION, TYPICAL FOR GRAVITY AND UPLIFT LOADS SUPERIMPOSED ON ALL JOISTS. DIAGONAL BRIDGING SHALL BE PROVIDED BETWEEN ADJACENT JOISTS WHENEVER BOTTOM CHORD HORIZONTAL BRIDGING IS CONTINUOUS.
5. REFER TO THE ROOF DIAPHRAGM CONNECTION SCHEDULE FOR DECK ATTACHMENT TO ROOF FRAMING MEMBERS AND DECK FASTENER TYPE, SIZE AND SPACING.
6. REF ARCH FOR TOP OF WALL ELEVATIONS.
7. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
8. TOS EL = BOTTOM OF DECK.
9. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
10. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
11. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 4/S-508 . PROVIDE BFB ALONG THE ENTIRE GRID LINE WHERE A BRACE IS PRESENT IN AT LEAST ONE BAY. THIS INCLUDES THE BRACED FRAME BAY AS WELL AS ALL OTHER BAYS ALONG THAT GRID LINE WHERE A BRACE IS LOCATED. NOT ALL DASHED LINES ARE SHOWN ON THE PLAN FOR CLARITY.
14. REF DETAIL 5/S-507 WHERE ROOF TOP EQUIPMENT REQUIRES A STRUCTURAL CURB. JOISTS THAT ARE SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR AN ADDITIONAL CONCENTRATED DEAD LOAD (AS SHOWN ON PLAN AT ANY POINT ALONG JOIST SPAN). GC SHALL COORDINATE WITH MEP, ARCHITECTURE AND EQUIPMENT CUTSHEETS FOR FINAL WEIGHT, DIMENSIONS, LOCATION, ETC.
15. ——— - - - ——— INDICATES PIPING RUN, REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
16. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
17. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
18. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
19. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
20. \/ - INDICATES COLUMN BRACING PER 5/S-502. TYPICAL AT COLUMNS UNBRACED BY FRAMING MEMBER ABOUT THEIR LOCAL AXIS. NOT ALL SHOWN ON PLAN FOR MORE CLARITY.
21. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
22. UPLIFT X-BRIDGING NOT SHOWN ON PLANS FOR CLARITY. GC SHALL PROVIDE X-BRIDGING BETWEEN ADJACENT WF BEAMS AT ROOF PER DETAIL 3/S-507.
23. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR ADD'L DL= 2.0 K (PERP.) OR DL= 0.5 K/LF (PARALLEL) (DEF. FROM DL SHALL NOT EXCEED 3/8"). END JOISTS ABOVE FOLDING PARTITION SHALL BE DESIGNED FOR STACKED END LOAD EQUAL TO 9000 POUNDS FOR BOTH ENDS (DEF. FROM DL SHALL NOT EXCEED 3/8"). REF DETAIL 1/S-509.
24. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.
25. ALL JOISTS LOCATED BENEATH ROOFTOP UNITS AND THE ADJACENT JOISTS ON EACH SIDE THAT ARE NOT ENTIRELY POSITIONED UNDER THE ROOFTOP UNIT MUST BE DESIGNED TO SUPPORT A DEAD LOAD OF 2.0 KIPS UNO ON PLANS. GC MUST COORD LOCATION OF RTUS WITH MEP DRAWINGS.
26. WHERE K-JOISTS AND LH-JOISTS BEAR ON THE SAME BEAM, K-JOISTS SEAT TO MATCH LH-JOIST SEAT
27. PIPES AND DUCTS ARE SHOWN GRAPHICALLY FOR REFERENCE ONLY. GC TO COORDINATE WITH MEP DRAWINGS TO DETERMINE THE EXACT LOCATION AND LAYOUT.

COMPOSITE FLOOR PLAN NOTES

1. REF PLAN FOR TOP OF SLAB ELEVATION.
2. ALL ELEVATIONS ARE BASED ON TOSC EL = 0'-0"
3. STEEL DECK SHALL BE PLACED WITH A TWO-SPAN CONDITION MINIMUM. NO SINGLE SPANS ARE ALLOWED WITHOUT WRITTEN APPROVAL OF ENGINEER-OF-RECORD.
4. COMPOSITE BEAM CONSTRUCTION IS UNSHORED.
5. DETAILING OF ALL MEMBER CONNECTIONS TO THE SUPPORTS SHALL BE PERFORMED TO SATISFY LATEST OSHA ERECTION REQUIREMENTS.
6. TOS EL = BOTTOM OF DECK.
7. UNLESS SHOWN OTHERWISE, STEEL BEAMS OR JOISTS ARE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES.
8. ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.
9. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS.
10. PROVIDE ADDITIONAL (5) - #5 CONT. BARS IN COMPOSITE SLAB ALONG FULL PERIMETER OF SLAB AND AROUND OPENINGS. EXTEND BARS 10'-0" PAST CORNERS OF OPENINGS. PROVIDE STD HOOK AT TERMINATION ENDS. ALL LAPS IN REINFORCING SHALL BE WITH MECHANICAL COUPLERS OR 20'-0" LAP SPLICE (TYP). REFER TO DETAIL 1/S-504.
11. PROVIDE 6'-0" WIDE EXTRA LAYER OF WWF AT 3/4" CLR. FROM TOSC OVER EVERY SINGLE BEAM THAT RUNS BETWEEN COLUMNS IN ADDITION TO EVERY GIRDER BEAM (TYP).
12. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
13. INDICATES WIND BRACE BEAM BOTTOM FLANGE BRACING PER 2/S-505 TYP ALONG ENTIRE GRID AT ALL BRACE FRAMES. AT LOCATIONS WHERE BEAM SPACING EXCEEDS 4'-0" OC REF 1/S-505.
14. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS.
15. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
16. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
17. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
18. [X] - ALL CMU SHOWN ON PLAN ARE PART OF THE STRUCTURAL LATERAL FORCE RESISTING SYSTEM AND SUPPORTS GRAVITY LOADS. NON-STRUCTURAL CMU EXISTS IN OTHER LOCATION (REF ARCH DWGS). A 3/8" VERT CONTROL JOINT SHALL BE PROVIDED WHEREVER STRUCTURAL AND NON-STRUCTURAL CMU ABUT.
19. INDICATES PLAN DIAGONAL STRUT WT5X15. COPE WEB AT BEAMS AND OVERLAP FLANGE 4". WELD TO TOP FLANGE AND COLUMNS WITH 5/16" FILLET WELD 3-SIDES (TYP.)
20. GC SHALL COORDINATE LOCATION OF FOLDING PARTITIONS WITH ARCH DRAWINGS. REF DETAIL 1/S-509 .
21. REF DETAIL 5/S-513 FOR ADDITIONAL REINF UNDER INTERIOR CMU WALLS PARALLEL TO DECK SPAN. GC TO COORDINATE THE LOCATION OF ALL CMU WALLS WITH ARCH DRAWINGS.
22. PROVIDE MISC. STEEL PER 12/S-501 ABOVE AND BELOW ANY WINDOW THAT DOES NOT ALIGN WITH THE BACK-UP, UNO, TYP. LOOSE LINTELS REQUIRED BELOW WINDOW SHALL BE INVERTED (DOG LEG DOWN), TYP.

1

GC NOTES:

1. GC COORDINATE THE ELEVATION AND THE LOCATION OF ALL MISC TUBE STEELS WITH ARCH. ALL HSS BEAM ELEVATIONS ARE FOR REFERENCE ONLY, GC TO VERIFY WITH ARCH DRAWINGS EXACT ELEVATIONS PRIOR TO ERECTION.

1 CLASSROOM LOW ROOF AND FLOOR FRAMING PLAN - AREA F
1/8" = 1'-0"

PBK
www.pbk.com
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HOUSTON, TX
713-865-6008
Kubala Engineers
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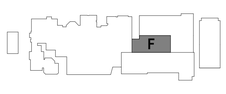
TEL 832.661.1 72812

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL



KEY PLAN

NORTH: PLAN ≈ TRUE

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI

DRAWN BY: CML

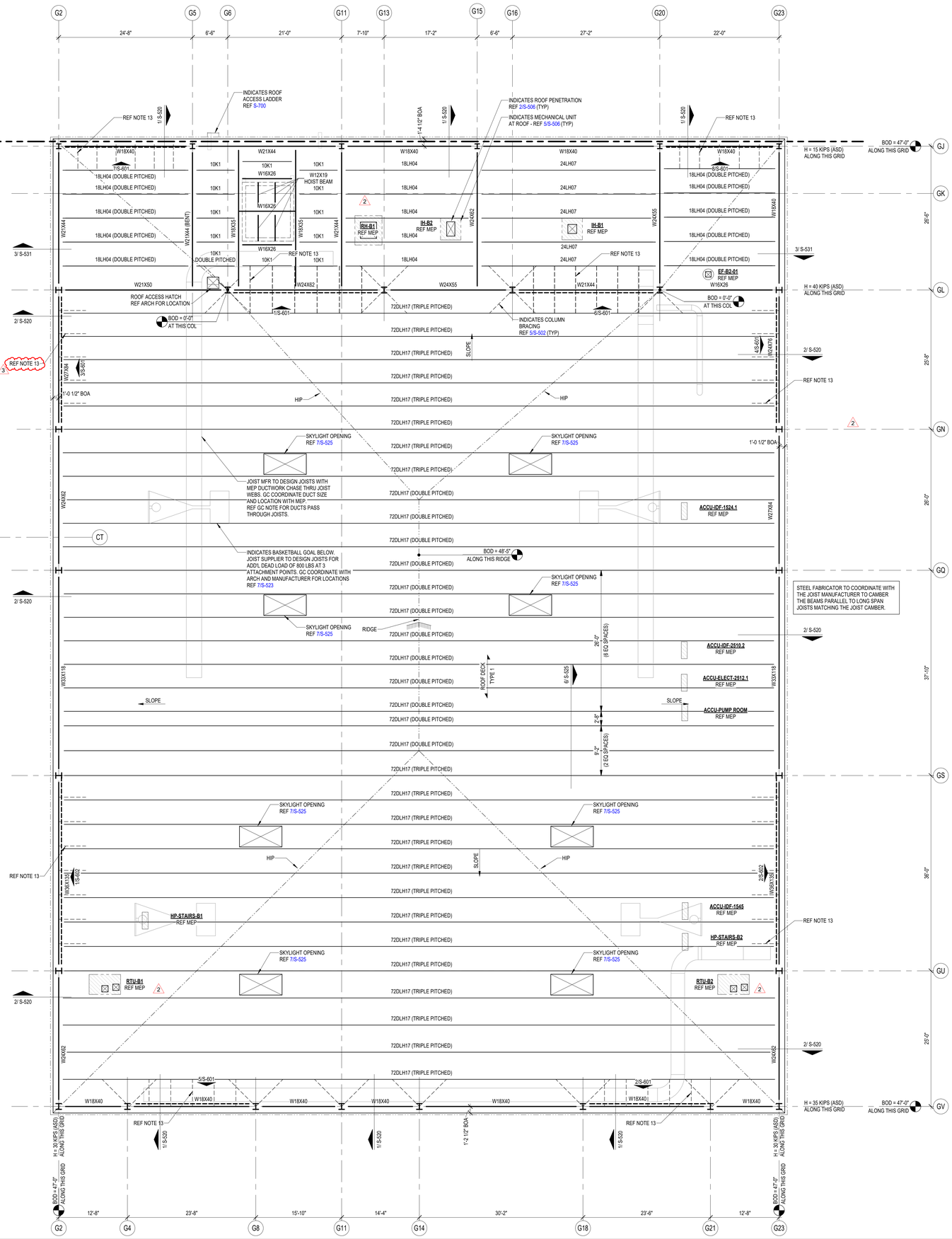
CLASSROOM LOW ROOF AND FLOOR FRAMING PLAN - AREA F

S-104F

Plot Stamp:
1/8/2026 2:17:42 PM

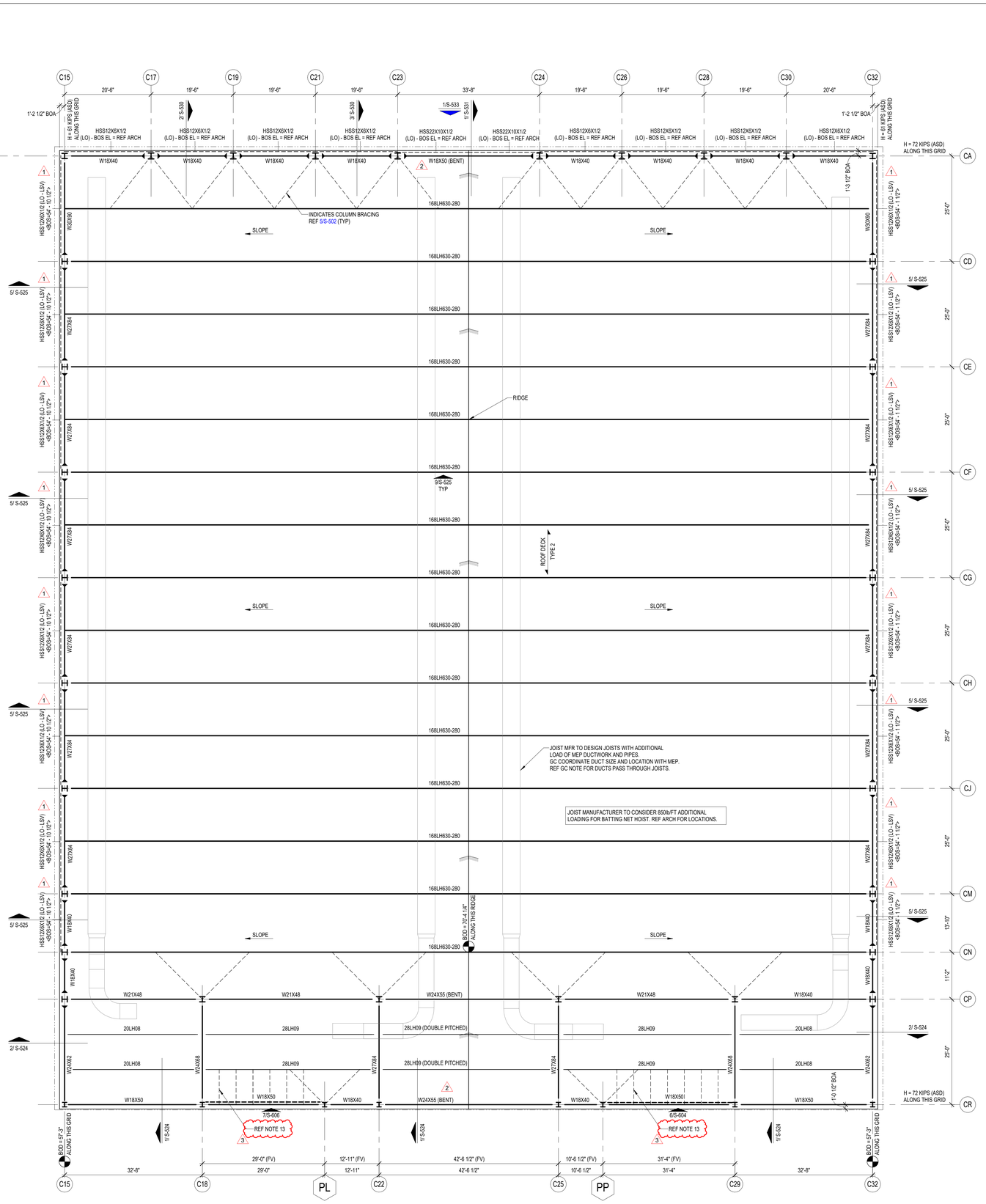
GYM HIGH ROOF FRAMING PLAN - AREA B
S-105B

FOR BLUEBEAM LABEL/INDOOR:


G2
G5
G6
G11
G13
G15
G16
G20
G23
24'-8"
6'-6"
21'-0"
7'-10"
17'-2"
6'-6"
27'-2"
22'-0"
GJ
GK
GL
GN
GQ
GS
GU
GV
CT
26'-6"
22'-6"
26'-6"
37'-10"
36'-0"
25'-0"
REF NOTE 13
INDICATES ROOF ACCESS LADDER REF S-700
INDICATES ROOF PENETRATION REF 2/S-506 (TYP)
INDICATES MECHANICAL UNIT AT ROOF - REF 5/S-506 (TYP)
INDICATES COLUMN BRACING REF 5/S-502 (TYP)
ROOF ACCESS HATCH REF ARCH FOR LOCATION
SKYLIGHT OPENING REF 7/S-525
JOIST MFR TO DESIGN JOISTS WITH MEP DUCTWORK CHASE THRU JOIST WEBS. GC COORDINATE DUCT SIZE AND LOCATION WITH MEP. REF GC NOTE FOR DUCTS PASS THROUGH JOISTS.
INDICATES BASKETBALL GOAL BELOW. JOIST SUPPLIER TO DESIGN JOISTS FOR ADD'L DEAD LOAD OF 800 LBS AT 3 ATTACHMENT POINTS. GC COORDINATE WITH ARCH AND MANUFACTURER FOR LOCATIONS REF 7/S-523
RIDGE
HIP
SLOPE
ROOF DECK TYPE 1
BOD = 0'-0" AT THIS COL
BOD = 48'-5" ALONG THIS RIDGE
BOD = 47'-0" ALONG THIS GRID
H = 15 KIPS (ASD) ALONG THIS GRID
H = 40 KIPS (ASD) ALONG THIS GRID
H = 35 KIPS (ASD) ALONG THIS GRID
H = 30 KIPS (ASD) ALONG THIS GRID
1'-0 1/2" BOA
1'-4 1/2" BOA
1'-2 1/2" BOA
W18X40
W21X44
W16X26
W12X19 HOIST BEAM
W18X35
W21X44 (BENT)
W24X62
W18X40
W24X55
W21X50
W21X44
W24X62
W21X44
W24X62
W24X62
W33X118
W33X118
W24X62
W24X62
W24X62
W18X40
W18X40
W18X40

CLASSROOM HIGH ROOF FRAMING PLAN - AREA G
S-105G

FOR BLUEBEAM LABELING/OCR:

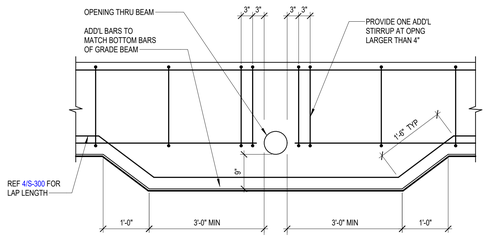

C15
C17
C19
C21
C23
C24
C26
C28
C30
C32
20'-6"
19'-6"
33'-8"
1'-2 1/2" BOA
H = 61 KIPS (ASD) ALONG THIS GRID
H = 72 KIPS (ASD) ALONG THIS GRID
HSS12X6X1/2 (LO) - BOS EL = REF ARCH
HSS22X10X1/2 (LO) - BOS EL = REF ARCH
W18X40
W18X50 (BENT)
INDICATES COLUMN BRACING REF 5/S-502 (TYP)
SLOPE
168LH630-280
RIDGE
ROOF DECK TYPE 2
9/S-525 TYP
JOIST MFR TO DESIGN JOISTS WITH ADDITIONAL LOAD OF MEP DUCTWORK AND PIPES. GC COORDINATE DUCT SIZE AND LOCATION WITH MEP. REF GC NOTE FOR DUCTS PASS THROUGH JOISTS.
JOIST MANUFACTURER TO CONSIDER 850lb/FT ADDITIONAL LOADING FOR BATTING NET HOIST. REF ARCH FOR LOCATIONS.
W21X48
W24X55 (BENT)
28LH09
28LH09 (DOUBLE PITCHED)
20LH08
W18X50
7/S-606
8/S-604
REF NOTE 13
1/S-524
2/ S-524
5/ S-525
HSS12X6X1/2 (LO - LSV) <6/26>54' - 1 1/2">
HSS12X6X1/2 (LO - LSV)

GENERAL GRADE BEAM NOTES AND TYP DETAILS
S-302
FOR BLUEBEAM LABELING/OCR:

0"
1"

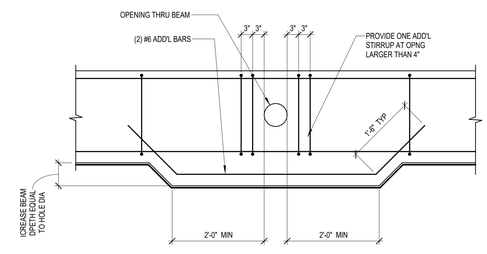
GRADE BEAM:

1. GRADE BEAM DIMENSIONS AND/OR LOCATIONS SHALL NOT BE ALTERED WITHOUT APPROVAL OF THE ENGINEER OF RECORD. SIDES OF GRADE BEAMS SHALL BE FORMED. EARTH FORMING OF GRADE BEAMS IS NOT ALLOWED UNLESS GRADE BEAMS MAY BE EARTH FORMED SO LONG AS THE SIDES ARE PLUMB AND SOUND AND ANY PORTION OF THE BEAMS/SLAB THAT EXTENDS ABOVE GRADE/ EXPOSED IS BOARD FORMED. THE WALLS MUST NOT SLOUGH OFF MORE THAN 3/4 " OUT OF PLANE OF THE PLUMB LINE. WHERE THIS OCCURS A BOARD FORM MAY BE LAID IN THE EARTH TO SMOOTH THE SIDE LOCALLY AT THE IMPERFECTION TO MAINTAIN WALL FLATNESS TOLERANCE.
2. GRADE BEAMS SHALL BE POURED MONOLITHICALLY AROUND CORNERS AND AT INTERSECTIONS. SEE TYPICAL GRADE BEAM CONSTRUCTION JOINT DETAIL FOR ACCEPTABLE CONSTRUCTION JOINT LOCATIONS.
3. GENERAL CONTRACTOR SHALL COORDINATE LOCATION, SIZE, AND ELEVATION AND INCLUDE IN HIS CONTRACT PRICE ALL REQUIRED HORIZONTAL PENETRATIONS THROUGH CONCRETE BEAMS WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT. WHERE BEAM PENETRATIONS ARE REQUIRED BUT ARE NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS, CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING DIMENSIONS AND LOCATIONS OF ALL REQUIRED PENETRATIONS FOR REVIEW AND APPROVAL.



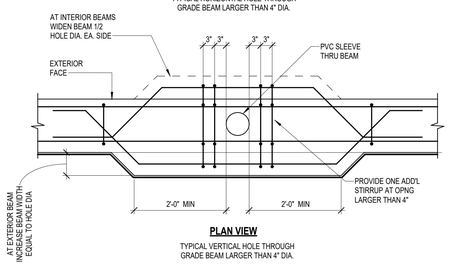
SECTION VIEW

TO BE USED WHERE OPENING CONFLICTS WITH BOTTOM BAR REINFORCEMENT



SECTION VIEW

TYPICAL HORIZONTAL HOLE THROUGH GRADE BEAM LARGER THAN 4" DIA.



PLAN VIEW

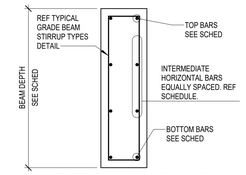
TYPICAL VERTICAL HOLE THROUGH GRADE BEAM LARGER THAN 4" DIA.

4 TYPICAL GRADE BEAM PENETRATION DETAILS
NO SCALE

GRADE BEAM SCHEDULE

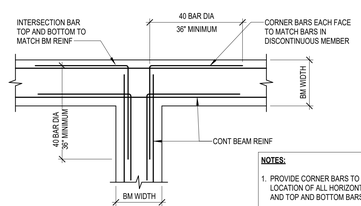
MARK	SIZE		REINFORCING			TIES		REMARKS
	WIDTH	DEPTH	TOP	BOTTOM	MIDDLE	SIZE	SPACING*	
GB1	1'-6"	2'-6"	3#9	3#9	REF SCHED	#4 S1	1@2", R@10", 1@2", R @ 6" @ CANTI	-
GB1*	1'-6"	4'-0"	3#9	3#9	REF SCHED	#4 S1	1@2", R@10", 1@2", R @ 6" @ CANTI	-
GB2	2'-0"	2'-6"	4#9	4#9	REF SCHED	#4 S1	1@2", R@10", 1@2", R @ 6" @ CANTI	-
GB2*	2'-0"	4'-0	4#9	4#9	REF SCHED	4 S1	1@2", R@10", 1@2", R @ 6" @ CANTI	-
GB3	2'-8"	2'-6"	5#9	5#9	REF SCHED	#4 S1	1@2", R@10", 1@2", R @ 6" @ CANTI	-
GB3*	2'-4"	4'-0"	5#9	5#9	REF SCHED	#4 S1	1@2", R@10", 1@2", R @ 6" @ CANTI	-
GB4	2'-10"	2'-6"	6#9	6#9	REF SCHED	#4 D1A	1@2", R@10", 1@2", R @ 6" @ CANTI	-
GB5	3'-0"	2'-6"	6#9	6#9	REF SCHED	#4 D1A	1@2", R@10", 1@2", R @ 6" @ CANTI	-
GB6	1'-2"	2'-6"	3#7	3#7	REF SCHED	#4 S1	1@2", R@10", 1@2", R @ 6" @ CANTI	-
GB6*	1'-2"	3'-6"	3#7	3#7	REF SCHED	#4 S1	1@2", R@10", 1@2", R @ 6" @ CANTI	-
GB7	2'-0"	3'-6"	4#9	4#9	REF SCHED	#4 S1	1@2", R@10", 1@2", R @ 6" @ CANTI	-
GB8	2'-0"	2'-0"	4#9	4#9	REF SCHED	#4 S1	1@2", R@10", 1@2", R @ 6" @ CANTI	-0"-8" BELOW FINISH FLOOR W/ 8" TURNDOWN. REF 9/S-311
GB9	4'-6"	2'-6"	8#9	8#9	REF SCHED	#4 S1	1@2", R@10", 1@2", R @ 6" @ CANTI	-
GB10	4'-6"	4'-0"	11#10	11#10 (100 KSI REBAR)	3#7 EF	#4 T1A	1@2", R@10", 1@2", R @ CANTI	ADD'L TIES BELOW COLUMNS PER 6/S-302A
GB11	6'-0"	4'-0"	12#10	12#10 (100 KSI REBAR)	3#7 EF	#4 T1A	1@2", R@10", 1@2", R @ CANTI	ADD'L TIES BELOW COLUMNS PER 6/S-302A

* - REF DETAIL 4/S-302A FOR TIE SPACING AT GRADE BEAM TO GRADE BEAM CONNECTION WHERE PIER/ FOOTING IS NOT PRESENT AT INTERSECTION. REF DETAIL 6/S-302A FOR TIES SPACING BELOW COLUMN WHERE PIER/ FOOTING IS NOT PRESENT BELOW COLUMN.



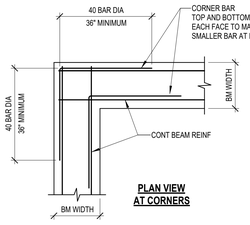
1 GRADE BEAM SCHEDULE
NO SCALE

INTERMEDIATE BAR SCHEDULE		
BEAM DEPTH	NUMBER OF BARS EA FACE	SIZE OF BAR
> 36" - 48"	5	#3
49" - 54"	5	#4
55" - 60"	5	#5
61" - 66"	6	#5
67" - 78"	7	#5
79" AND ABOVE	AT 9" OC	#5



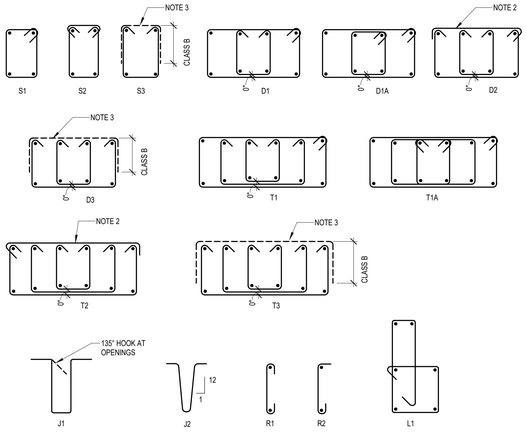
PLAN VIEW AT INTERSECTIONS

NOTES:
1. PROVIDE CORNER BARS TO MATCH SIZE AND LOCATION OF ALL HORIZONTAL GRADE BEAM AND TOP AND BOTTOM BARS.
2. CORNER BARS ARE NOT REQUIRED AT HOOKED ENDS. TURN HOOKS SIDEWAYS.
3. REF DETAIL 4/S-302A OR TYPICAL GRADE BEAM TO GRADE BEAM CONNECTION WHERE PIER/ FOOTING IS NOT PRESENT AT INTERSECTION.



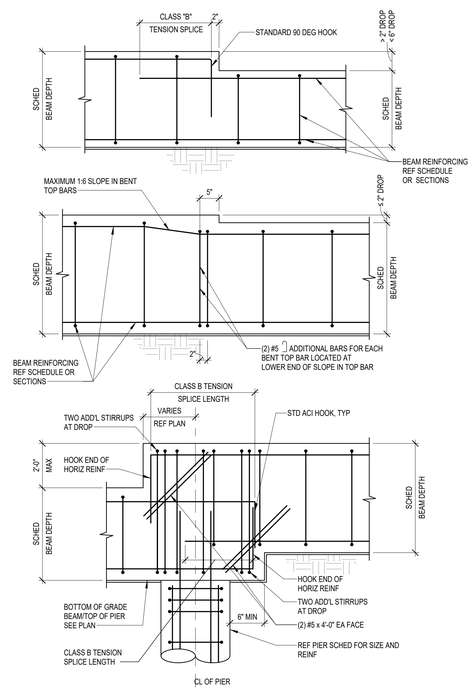
PLAN VIEW AT CORNERS

5 TYPICAL CORNER BAR DETAILS
NO SCALE

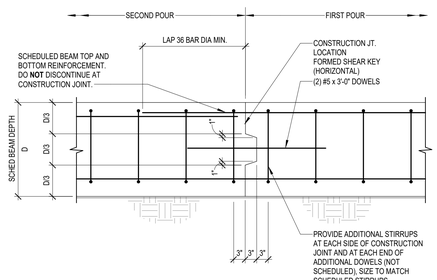


NOTES:
1. ALL HOOKS SHALL BE FABRICATED AS REQUIRED BY ACI. REFER TO "TYPICAL STIRRUP AND TIE HOOK TYPES."
2. THE TOP CAP FOR CLOSED STIRRUPS S15, S19, S24, AND S27 SHALL BE PLACED SUCH THAT THE 135° HOOK END IS NOT ON THE SIDE CONFINED BY THE SLAB.
3. PROVIDE TOP CAP FOR OPEN STIRRUPS S3, S21, S22, AND S29 TO MATCH SCHEDULED STIRRUP SIZE AT 48".

2 TYPICAL GRADE BEAM STIRRUP TYPES
3/4" = 1'-0"



6 TYPICAL GRADE BEAM STEPDOWN DETAIL
NO SCALE

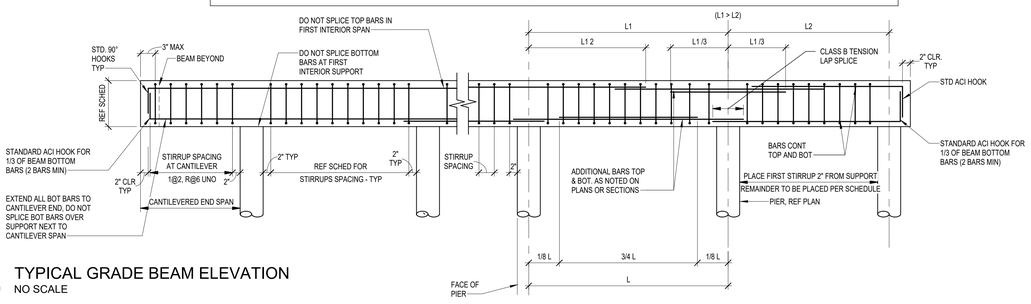


ELEVATION VIEW

NOTES:
1. LOCATE JOINTS IN MIDDLE THIRD OF BEAM SPAN BETWEEN SUPPORTS.
2. ACCEPTABLE JOINT LOCATIONS ARE AS FOLLOWS:
   a. FOR BEAMS NOT SUPPORTING INTERSECTING BEAMS, PLACE JOINT WITHIN MIDDLE THIRD OF SPAN.
   b. FOR BEAMS SUPPORTING INTERSECTING BEAMS, CHECK WITH STRUCTURAL ENGINEER FOR JOINT LOCATIONS AND DOWEL REQUIREMENTS.
3. FOR JOINT LOCATIONS OTHER THAN WITHIN MIDDLE THIRD OF SPAN, CONTRACTOR SHALL COORDINATE REQUIRED ADDITIONAL REINFORCEMENT WITH THE ENGINEER ON THE SHOP DRAWINGS.
4. JOINTS MAY NOT OCCUR IN THE FIRST SPAN OF A BEAM LINE OR IN ANY SPAN WHICH IS LESS THAN 8 FEET.
5. GENERAL CONTRACTOR SHALL SUBMIT DESIRED CONSTRUCTION JOINT LAYOUT AS A SHOP DRAWING FOR APPROVAL A MINIMUM OF TWO WEEKS PRIOR TO POUR.

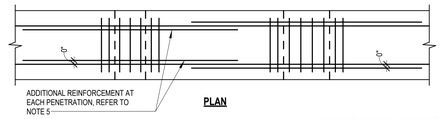
7 TYPICAL GRADE BEAM CONSTRUCTION JOINT
NO SCALE

NOTES:
1. TOP CONT BARS MAY BE SPLICED AT MID-SPAN OF BEAM ONLY. EXCEPT AT CANTILEVER SPANS, SPANS ADJACENT TO CANTILEVER SPANS AND SPANS WITH LENGTH NOT GREATER THAN ONE HALF OF THE ADJACENT SPAN LENGTH.
2. ALL HOOKS SHOWN ARE STANDARD HOOKS (90° OR 180°).
3. SPLICES IN SCHEDULED BARS LESS THAN 60'-0" LENGTH ARE ONLY PERMITTED AT THE SPECIFIED LOCATIONS SHOWN. SPLICES IN SCHEDULED BARS MORE THAN 60'-0" LENGTH SHALL BE REFERRED TO ENGINEER FOR APPROVAL.
4. BEAMS WITH DEPTH OF 36" OR LESS, DO NOT NEED INTERMEDIATE BARS UNLESS REQUIRED BY BEAM SCHEDULE. REF 1/S-302
5. REF TO DETAIL 6/S-302 FOR DROP IN TOP OR BOTTOM OF GRADE BEAM.
6. REF DETAIL 4/S-302A OR TYPICAL GRADE BEAM TO GRADE BEAM CONNECTION WHERE PIER/ FOOTING IS NOT PRESENT AT INTERSECTION.
7. REF DETAIL 6/S-302A FOR TYPICAL GRADE BEAM REINFORCEMENT AT COLUMN WHERE PIER/ FOOTING OR WIDENED PILASTER IS NOT PRESENT BELOW COLUMN.

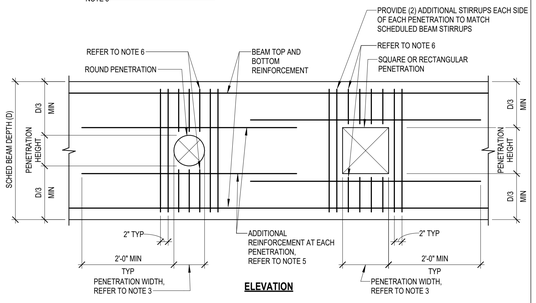


8 TYPICAL GRADE BEAM ELEVATION
NO SCALE

NOTES:
1. PROVIDE ADDITIONAL STIRRUPS ABOVE AND BELOW PENETRATIONS AT SPACING NOT TO EXCEED ONE THIRD OF THE SCHEDULED STIRRUP SPACING, UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS.
2. CLEAR SPACING BETWEEN PENETRATIONS SHALL BE 24" MINIMUM UNLESS NOTED OTHERWISE BY THE STRUCTURAL ENGINEER.
3. PENETRATIONS SHALL BE LOCATED ACCORDING TO THE FOLLOWING CRITERIA:
   a. FOR BEAMS NOT SUPPORTING INTERSECTING BEAMS LOCATE PENETRATIONS WITHIN TWO FEET EITHER SIDE OF BEAM MIDSPAN.
   b. FOR BEAMS SUPPORTING INTERSECTING BEAMS CHECK WITH STRUCTURAL ENGINEER.
4. PENETRATION WIDTH MUST NOT EXCEED PENETRATION HEIGHT, UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
5. FOR LOCATIONS AND/OR SIZES OF PENETRATIONS NOT CONFORMING TO THE ABOVE CRITERIA AND NOT OTHERWISE DETAILED ON THE STRUCTURAL DRAWINGS, CONTRACTOR SHALL COORDINATE REQUIRED ADDITIONAL REINFORCEMENT WITH THE STRUCTURAL ENGINEER.
6. PROVIDE THE FOLLOWING REINFORCEMENT AT EACH SLEEVE, UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS:
   1-#5 TOP AND BOTTOM AT BEAMS WITH WIDTHS LESS THAN 9".
   2-#5 TOP AND BOTTOM AT BEAMS WITH 2-LEG STIRRUPS.
   4-#5 TOP AND BOTTOM AT BEAMS WITH 4-LEG STIRRUPS.
   "N"-#5 TOP AND BOTTOM AT BEAMS WITH "N"-LEG STIRRUPS.
7. SCHEDULED BEAM STIRRUPS NOT SHOWN FOR CLARITY.



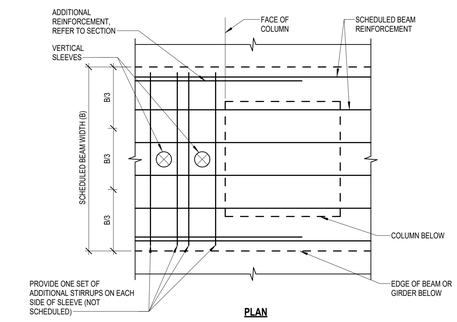
PLAN



ELEVATION

3 TYPICAL HORIZONTAL PENETRATION IN CONCRETE BEAM
NO SCALE

NOTES:
1. GENERAL CONTRACTOR SHALL COORDINATE REQUIRED BEAM SLEEVES WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS. REQUIRED SLEEVES MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS. GENERAL CONTRACTOR SHALL SUBMIT PLAN SHOWING LAYOUT OF ALL SLEEVES WITH FORMWORK SHOP DRAWING SUBMITTAL.
2. SLEEVES SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE SCHEDULED BEAM WIDTH.
3. CONTINUOUS BEAM REINFORCEMENT MAY BE SLIGHTLY DISPLACED (3" MAXIMUM) OR ADJACENT BARS BUNDLED (2 BAR BUNDLES MAXIMUM) TO FACILITATE SLEEVE INSTALLATION. DO NOT CUT, OFFSET, OR BEND REINFORCEMENT.
4. SLEEVES OCCURRING ON OPPOSITE SIDES OF A COLUMN MUST BE IN LINE.
5. THE OUTSIDE DIAMETER OF A SLEEVE MAY NOT EXCEED 15% OF THE SCHEDULED WIDTH OF THE BEAM THROUGH WHICH IT MUST PASS.
6. THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD WHEN A SLEEVE SIZE OR LOCATION DOES NOT MEET THE ABOVE CONDITIONS.
7. SCHEDULED BEAM STIRRUPS NOT SHOWN FOR CLARITY.



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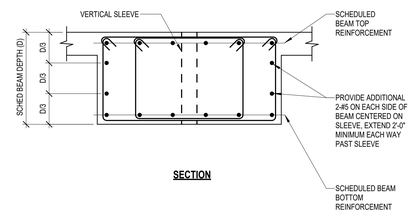

SECTION

9 TYPICAL VERTICAL PENETRATION IN CONCRETE BEAM
NO SCALE

Plot Stamp:
1/8/2026 2:17:48 PM

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1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI
DRAWN BY: CML

GENERAL GRADE BEAM NOTES AND TYP DETAILS

S-302

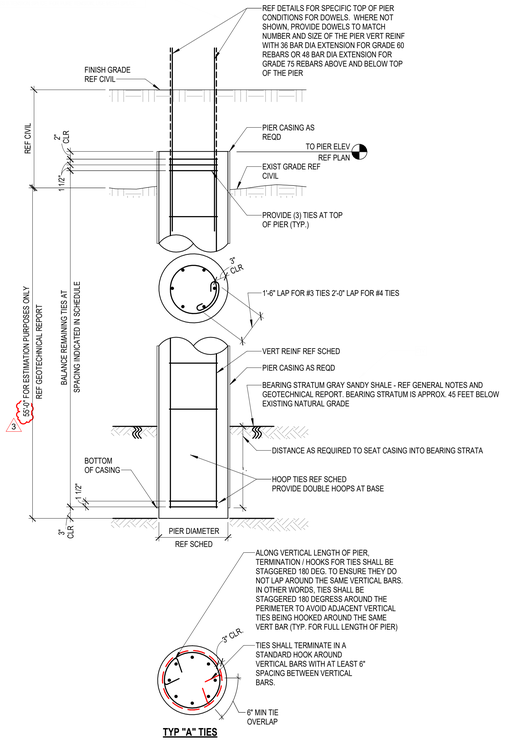
GENERAL FOUNDATION NOTES AND TYP DETAILS
S-303
FOR BLUEBEAM LABEL/INDOOR:

0"
1"

STRAIGHT SHAFT PIERS:

1. PIER DESIGN IS BASED UPON THE FOLLOWING CRITERIA. REFER TO TYPICAL PIER DETAIL FOR PIER SCHEDULE AND REINFORCING.
   A. ALLOWABLE END BEARING PRESSURE..... 7,500 PSF
   B. SIDE FRICTION RESISTANCE..... 300 PSF FOR 8FT TO 13FT, 400 PSF FOR 13FT TO 40FT AND 600 PSF FOR 40FT TO 50FT
   C. BEARING STRATUM..... 55.0 FT 3
2. UNLESS NOTED OTHERWISE BY THE OWNER OR ARCHITECT, THE GENERAL CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER OR OTHER AUTHORIZED INSPECTOR DURING EARTHWORK OPERATIONS, AND KEEP A COMPETENT TRAINED TECHNICIAN ASSIGNED TO THE PROJECT ON SITE DURING OPERATIONS. SERVICES PROVIDED SHALL INCLUDE:
   A. OBSERVING THE BOTTOM OF SHAFT FOR CLEANLINESS.
   B. PROPER BEARING MATERIAL SHALL BE VERIFIED BEFORE CONCRETE POURING OCCURS. THE TOP ELEVATION OF PIERS IS SHOWN ON THE DRAWINGS. THE ACTUAL BEARING ELEVATION MAY VARY AS REQUIRED TO PROVIDE PROPER CAPACITY AS DETERMINED BY THE GEOTECHNICAL ENGINEER OF RECORD.
   C. CHECKING SHAFT FOR CONFORMANCE TO REQUIRED TOLERANCES. FOOTINGS SHALL BE WITHIN 3" OF THEIR REQUIRED LOCATIONS AND SHAFTS SHALL NOT BE OUT OF PLUMB BY MORE THAN 2 PERCENT OF THE SHAFT LENGTH. CHECK THAT THE BELL IS CONCENTRIC WITH THE SHAFT.
3. ENSURE THAT ALL SPOILS FROM THE DRILLED PIER EXCAVATIONS ARE REMOVED FROM THE BUILDING PAD AND THAT THE PAD IS MOISTURE CONDITIONED AND RECOMPACTED AS SPECIFIED.
4. ESTABLISH TOP OF FOOTINGS/PIERS AT ELEVATIONS SHOWN ON PLANS. IF FIELD CONDITIONS REQUIRE CHANGES TO REACH THE DESIRED STRATUM, ADJUSTMENTS TO CONTRACT ARE TO BE MADE ON A UNIT PRICE BASIS. CONTRACTOR SHALL PROVIDE UNIT PRICE ADD AND DEDUCT FOR EACH PIER SIZE ON THE PROJECT.
5. PIER CONSTRUCTION AND CONCRETING SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND AS PER THE LATEST VERSION OF ACI 336. DRILLED HOLES ARE TO BE EXCAVATED, CLEANED, REINFORCED, AND FILLED WITH CONCRETE DURING THE SAME DAY. NO HOLE IS TO BE LEFT OPEN OVERNIGHT. PUMP ANY ACCUMULATED WATER FROM THE PIER HOLES PRIOR TO CONCRETE PLACEMENT. REFER TO THE GEOTECHNICAL REPORT FOR CASING REQUIREMENTS.
6. REINFORCING CAGE SHALL BE HELD SECURELY AWAY FROM EARTH AT SIDES AND BOTTOM BY SETS OF 3 OR MORE SPACERS AT A MAXIMUM SPACING OF 5 FEET ALONG THE LENGTH OF THE CAGE AND 1 FOOT FROM THE BOTTOM.
7. THE CONTRACTOR SHALL VERIFY DEPTHS OF PIERS BEFORE PIER STEEL IS CUT. PIER STEEL MAY BE DELIVERED TO THE JOBSITE IN STANDARD LENGTHS OF 40 OR 60 FEET AND CUT AS REQUIRED. PROVIDE 64 BAR DIAMETER LAPS IN ALL VERTICAL PIER REINFORCING.
8. WHERE THE CLEAR DISTANCE BETWEEN TWO PIERS IS LESS THAN THE PIER DIAMETER OF THE LARGER PIER, WAIT AT LEAST 48 HOURS AFTER CASTING THE FIRST PIER BEFORE DRILLING THE SECOND PIER.
9. CONTRACTOR SHALL PROVIDE IN HIS BID A UNIT PRICE ADD AND UNIT PRICE DEDUCT FOR EACH PIER SIZE UTILIZED ON THE PROJECT.
10. GROUNDWATER WAS INITIALLY ENCOUNTERED AT DEPTHS AS SHALLOW AS 10 FEET BGS IN BORINGS DURING DRILLING AND ROSE TO DEPTHS AS SHALLOW AS 9 FEET WITHIN 15 MINUTES. FURTHER GROUNDWATER WAS ENCOUNTERED AT DEPTHS AS SHALLOW AS 2 FEET BGS IN THE INSTALLED PIEZOMETER. GROUNDWATER SHOULD BE EXPECTED TO BE ENCOUNTERED DURING PIER EXCAVATION AND THE RISK OF GROUNDWATER SEEPAGE IS INCREASED DURING OR AFTER PERIODS OF PRECIPITATION. SUBMERSIBLE PUMPS MAY BE CAPABLE OF CONTROLLING SEEPAGE IN THE PIER EXCAVATION TO ALLOW CONCRETE PLACEMENT. GC SHALL ACCOUNT FOR THE COST AND ADDITIONAL TIME IN SCHEDULE FOR TEMPORARY CASINGS AND/OR SLURRY METHOD FOR ALL STRAIGHT SHAFT PIERS ON THE PROJECT. CASING SHALL BE SIZED TO MAINTAIN THE PIER DIAMETER INDICATED IN THE SCHEDULE AND SHALL NOT BE LEFT IN PLACE PERMANENTLY. THE PIER EMBED SHALL BE INCREASED FOR ANY ADDITIONAL SEATING DISTANCE OF THE CASING NEEDED TO SEAL OFF THE WATER.

2



TYP "A" TIES

NOTE(S):

1. DEPTH OF BEARING STRATUM IS INDICATED FOR INFORMATION ONLY. ACTUAL DEPTH MAY VARY. REFER TO THE GEOTECHNICAL REPORT AND THE GRADING PLAN FOR DEPTH OF BEARING STRATUM BELOW FINISH FLOOR, AND ADJUST DEPTHS AS REQD. CONTRACTOR TO PROVIDE AN ALLOWANCE ON PER LINEAR FOOT BASIS FOR ADD AND DEDUCT.
2. CONTRACTOR SHALL PROVIDE AN ALLOWANCE FOR PIER CASINGS OR SLURRY METHOD ON A PER LINEAR FOOT BASIS AS PER DIVISION 1 OF THE PROJECT SPECIFICATIONS. ALSO REFER TO THE GEOTECHNICAL REPORT FOR PIER CASING REQUIREMENTS.
3. SPLICE VERTICAL REINFORCING IN PIERS WITH CLASS B TENSION LAP SPLICE.
4. FOR PIERS LOCATED WITHIN THREE SHAFT DIAMETERS CLEAR SPACING, THE SECOND PIER SHALL BE DRILLED A MIN OF 48 HOURS AFTER THE FIRST.
5. TEMPORARY CASING AND/OR SLURRY METHOD IS REQUIRED. CASING SHALL BE SIZED TO MAINTAIN THE PIER DIAMETER INDICATED IN SCHEDULE. THE PIER EMBED SHALL BE INCREASED FOR ANY ADDITIONAL SEATING DISTANCE OF THE CASING NEEDED TO SEAL OFF THE WATER.

APPLICABLE TxDOT STANDARDS:
DRILLED PIER FOUNDATIONS SHOULD BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF TxDOT ITEM 416 (STANDARD SPECIFICATION FOR CONSTRUCTION OF DRILLED PIER FOUNDATIONS) AND AS PER ACI 336.1-01 THIS SPECIFICATION INCLUDES REQUIREMENTS FOR CONSTRUCTION USING CASING OR THE SLURRY DISPLACEMENT METHOD, AS APPROPRIATE.

2

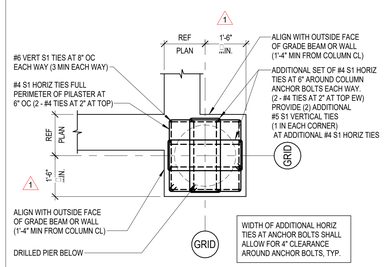
STRAIGHT SHAFT PIER SCHED.

MARK	SIZE		REINFORCING		TIES	
	DIAMETER	TOTAL LENGTH	VERT. REINF.	TOP BAR/DOWEL TERMINATION	SIZE	SPACING
P1	1'-6"	55'-0"	(6) #6	STD. HOOK	#4	8" OC
P2	2'-0"	55'-0"	(8) #6	STD. HOOK	#4	8" OC
P3	2'-6"	55'-0"	(8) #7	STD. HOOK	#4	8" OC
P4	3'-0"	55'-0"	(9) #8	STD. HOOK	#4	8" OC 3
P5	3'-6"	55'-0"	(11) #9	STD. HOOK	#4	8" OC
P6	4'-0"	55'-0"	(15) #10	STD. HOOK	#4	8" OC
P7	4'-6"	55'-0"	(18) #10	STD. HOOK	#4	8" OC
P8	5'-0"	55'-0"	(20) #11	STD. HOOK	#4	8" OC
P9	5'-6"	55'-0"	(23) #11	STD.HOOK	#3	8" OC

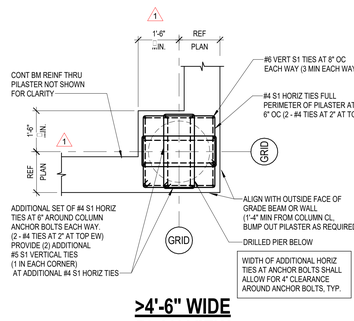
5 TYPICAL STRAIGHT SHAFT PIER SCHEDULE
NO SCALE

3

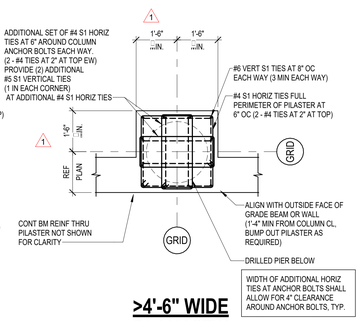
NOT USED



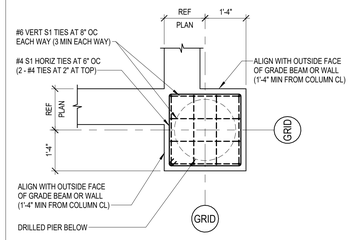
>4'-6" WIDE PLAN VIEW



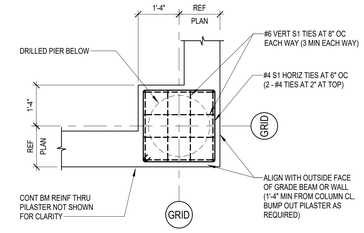
>4'-6" WIDE PLAN VIEW



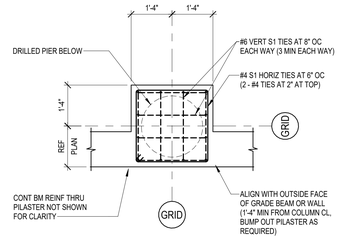
>4'-6" WIDE PLAN VIEW



INSIDE CORNER PILASTER



OUTSIDE CORNER PILASTER



INTERIOR PILASTER

3 TYPICAL PILASTER DETAILS AT PIERS
NO SCALE

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI
DRAWN BY: CML

GENERAL FOUNDATION NOTES AND TYP DETAILS

S-303

Plot Stamp:
1/8/2026 2:17:49 PM

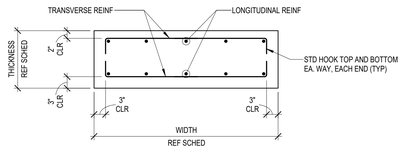
GENERAL FOUNDATION NOTES AND TYP DETAILS
S-303SF
FOR BLUEBEAM LABEL/INDOOR:

0"
1"

FOOTINGS:

1. FOOTING DESIGN IS BASED UPON THE FOLLOWING CRITERIA. REFER TO TYPICAL FOOTING DETAIL FOR FOOTING SCHEDULE AND REINFORCING. DISTRIBUTION OF FOOTING TYPES AS INDICATED ON PLANS.
   - A. NET ALLOWABLE SOIL BEARING PRESSURE ..... ISOLATED FOOTINGS.... DL = 3,000 PSF.....TL = 4,500 PSF
     STRIP FOOTINGS ..... DL = 2,500 PSF.....TL = 3,750 PSF
   - B. MINIMUM FOOTING BEARING DEPTH ..... 4.0 FT BELOW ADJACENT GRADE
   - C. MINIMUM WALL FOOTING WIDTH ..... 16 INCHES
   - D. MINIMUM COLUMN FOOTING WIDTH ..... 30 INCHES
   - E. COEFFICIENT OF BASE FRICTION AT FOOTING BASE 0.25
   - F. ALLOWABLE PASSIVE EARTH PRESSURE FOR FOOTINGS BEARING AGAINST SELECT FILL AND/OR NATIVE SOILS ..... AS CALCULATED USING EQ. FLUID WT. 185 PCF AND FRICTION COEFF. 0.25
   - G. DEPTH OF SOIL WHERE PASSIVE EARTH PRESSURE SHALL BE IGNORED ..... 2.0 FT FROM LOWEST ADJACENT GRADE
   - G. BEARING STRATUM ..... FOOTINGS TO BEAR WITHIN SELECT FILL FOR THE BUILDING PAD OR IN NATIVE UNDISTURBED SOILS

   3
2. FOOTINGS NOT SPECIFICALLY LOCATED ON THE PLAN SHALL BE LOCATED ON CENTERLINE OF THE COLUMN ABOVE, WHERE NO COLUMN OCCURS, LOCATE FOOTING ON CENTERLINE OF WALL OR BEAM.
3. PROVIDE DOWELS FROM FOOTINGS INTO CONCRETE ABOVE PER THE TYPICAL FOOTING DETAIL.
4. ELEVATION OF TOP OF FOOTING IS NOTED ON DRAWINGS.
5. REFERENCE PLANS AND FOOTING SCHEDULE FOR FOOTING SIZE, REINFORCING, AND DEPTH OF BEARING STRATUM.
6. ALL FOOTINGS SHALL BE INSPECTED BY A REPRESENTATIVE OF THE PROJECT'S GER IN ORDER TO ENSURE THAT THE BEARING STRATUM IS PROPER AND IN ACCORDANCE WITH THE RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT.
7. USE TEMPLATES TO SET DOWELS AND ANCHOR BOLTS IN FOOTINGS. PROVIDE DETAILS OF THE TEMPLATES IN THE FOOTING SHOP DRAWINGS. REMOVE THE TEMPLATE COMPLETELY FROM THE TOP OF THE FOOTING PRIOR TO SUPERSTRUCTURE CONSTRUCTION.
8. UNLESS REQUIRED BY THE PROJECT'S GER TO BE FORM-SIDED, THE FOOTING EXCAVATIONS SHALL BE MADE TO NEAT LINES AND SHALL BE FREE OF LOOSE OR WET MATERIALS. CONCRETE CAN BE PLACED DIRECTLY AGAINST THE SOIL WITHOUT FORMING.
9. PLACE CONCRETE IN FOOTING EXCAVATION WITHIN 8 HOURS OF FINAL EXCAVATION OR AS SPECIFIED IN THE GEOTECHNICAL REPORT.



REINF DIAGRAM

SPREAD FOOTING SCHEDULE

MARK	WIDTH (FT-IN)	LENGTH (FT-IN)	THICKNESS (FT-IN)	LONGITUDINAL TOP REINF	LONGITUDINAL BOT REINF	TRANSVERSE TOP REINF	TRANSVERSE BOT REINF	REMARKS
F4	4' - 0"	4' - 0"	2' - 0"	#4 @ 12" OC	#5 @ 10" OC	#4 @ 12" OC	#5 @ 10" OC	
F6	6' - 0"	6' - 0"	2' - 0"	#5 @ 12" OC	#7 @ 10" OC	#5 @ 12" OC	#7 @ 10" OC	
F7	6' - 0"	10' - 0"	2' - 0"	#5 @ 10" OC	#8 @ 10" OC	#5 @ 10" OC	#8 @ 10" OC	2
F8	8' - 0"	8' - 0"	2' - 0"	#5 @ 10" OC	#8 @ 10" OC	#5 @ 10" OC	#8 @ 10" OC	
F10	10' - 0"	10' - 0"	2' - 0"	#5 @ 10" OC	#8 @ 10" OC	#5 @ 10" OC	#8 @ 10" OC	
F12	12' - 0"	12' - 0"	2' - 0"	#5 @ 10" OC	#8 @ 10" OC	#5 @ 10" OC	#8 @ 10" OC	
F15	15' - 0"	12' - 0"	2' - 0"	#6 @ 10" OC	#8 @ 10" OC	#6 @ 10" OC	#8 @ 10" OC	
F16	16' - 0"	8' - 0"	2' - 0"	#7 @ 10" OC	#8 @ 10" OC	#7 @ 10" OC	#8 @ 10" OC	
F17	17' - 0"	7' - 0"	2' - 0"	#6 @ 10" OC	#8 @ 10" OC	#6 @ 10" OC	#8 @ 10" OC	
F19	19' - 0"	12' - 0"	2' - 0"	#7 @ 10" OC	#8 @ 10" OC	#7 @ 10" OC	#8 @ 10" OC	
F25	25' - 0"	12' - 0"	2' - 0"	#7 @ 10" OC	#8 @ 10" OC	#7 @ 10" OC	#8 @ 10" OC	
F31	31' - 0"	12' - 0"	2' - 0"	#8 @ 10" OC	#8 @ 10" OC	#8 @ 10" OC	#8 @ 10" OC	

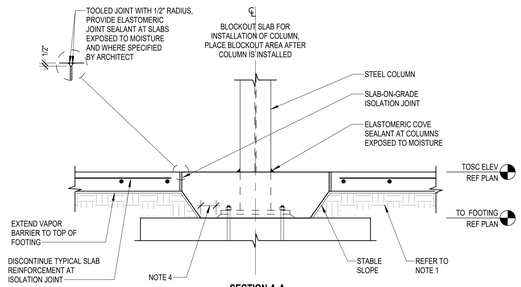
1

CONTINUOUS FOOTING SCHED.

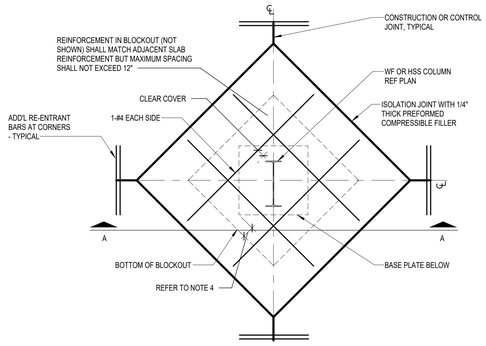
TYPE	WIDTH (FT-IN)	THICKNESS	LONGITUDINAL TOP REINF.	LONGITUDINAL BOT REINF.	TRANSVERSE TOP REINF.	TRANSVERSE BOT REINF.	REMARKS
F-CONT	4'-0"	1'-6"	#5 @ 10" OC	#6 @ 10" OC	#5 @ 10" OC	#6 @ 10" OC	-

3

1 TYPICAL FOOTING REINF DIAGRAM AND SCHEDULE
NO SCALE



SECTION A-A

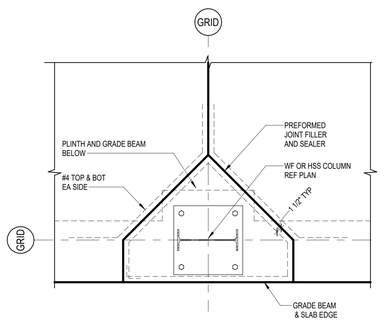


PLAN

NOTES:

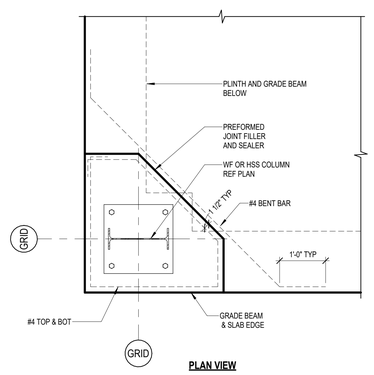
1. REFER TO "TYPICAL SLAB-ON-GRADE SUBGRADE PREPARATION" FOR SUBGRADE PREPARATION REQUIREMENTS INCLUDING LOCATION OF VAPOR BARRIER RELATIVE TO SLAB AND GRANULAR BASE AND WHETHER FINE-GRADE GRANULAR MATERIAL IS REQUIRED.
2. REFER TO "TYPICAL CONSTRUCTION AND CONTROL JOINTS - SLAB-ON-GRADE" FOR CONSTRUCTION AND CONTROL JOINT REQUIREMENTS.
3. CONTRACTOR TO COORDINATE REQUIRED SIZE OF BLOCKOUT FOR STRUCTURAL STEEL COLUMNS WITH STEEL ERECTOR. SUBMIT THE DESIRED BLOCKOUT SIZE TO ARCHITECT FOR APPROVAL.
4. BLOCKOUT SHALL BE SIZED TO PROVIDE 3" MINIMUM CONCRETE COVER ALL AROUND COLUMN AND BASE PLATE.
5. THE BLOCKOUT SHALL BE KEYWAYED WITH RE-ENTRANT BARS.

2 TYPICAL SLAB-ON-GRADE INTERIOR BLOCKOUT DETAIL
NO SCALE



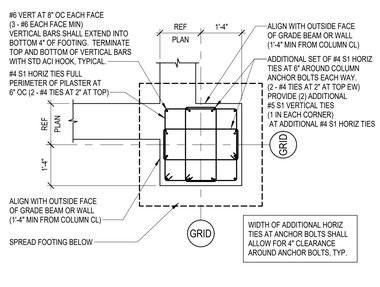
PLAN VIEW

4 TYPICAL SLAB-ON-GRADE PERIMETER BLOCKOUT DETAIL
NO SCALE



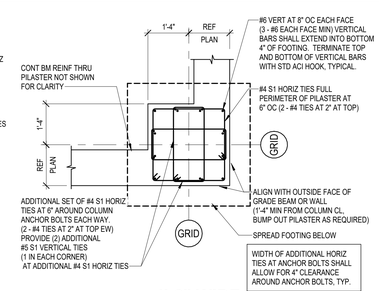
PLAN VIEW

5 TYPICAL SLAB-ON-GRADE CORNER BLOCKOUT DETAIL
NO SCALE



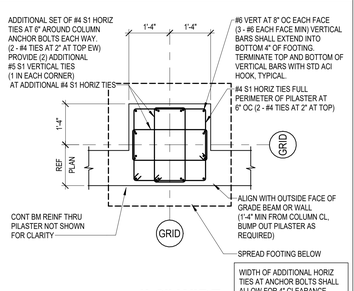
>4'-6" WIDE PLAN VIEW

INSIDE CORNER PILASTER



>4'-6" WIDE PLAN VIEW

OUTSIDE CORNER PILASTER



>4'-6" WIDE PLAN VIEW

INTERIOR PILASTER

3 TYPICAL PILASTER DETAILS AT SPREAD FOOTING
NO SCALE

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TX: 4625 NW 1-2911

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keerie St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: Checker
DRAWN BY: Author

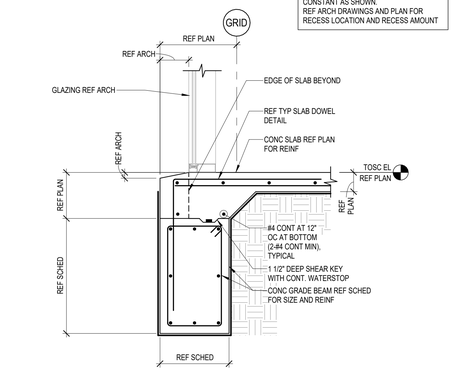
GENERAL FOUNDATION NOTES AND TYP DETAILS

S-303SF

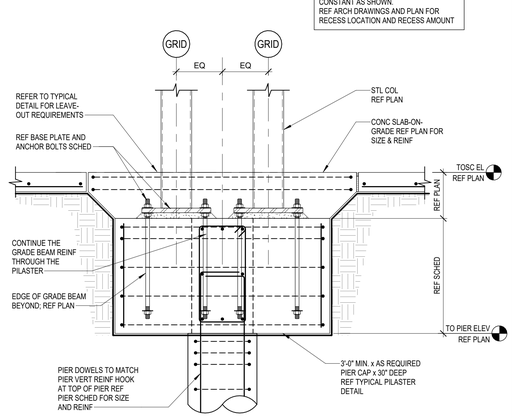
Plot Stamp:
1/8/2026 2:17:51 PM

FOUNDATION DETAILS
S-311
FOR BLUEBEAM LABELING/DOOR:

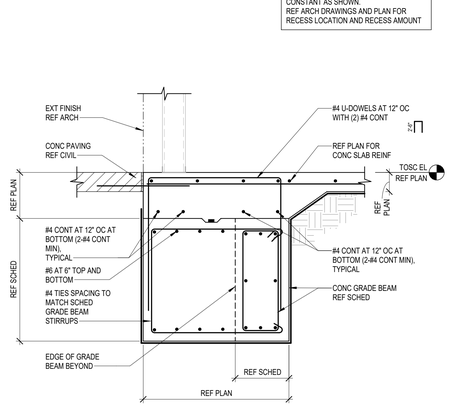
0"
1"



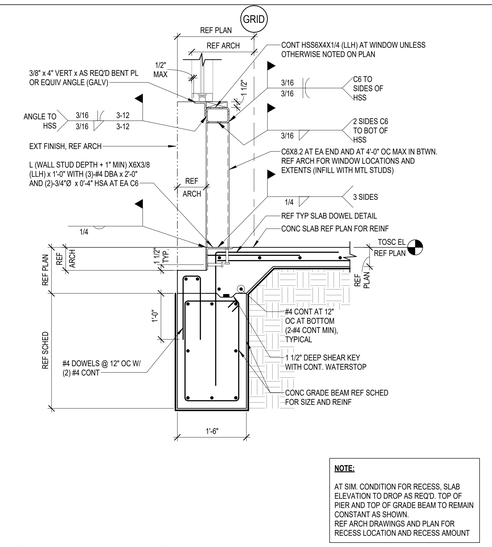
1 EXTERIOR GRADE BEAM AT STOREFRONT
3/4" = 1'-0"



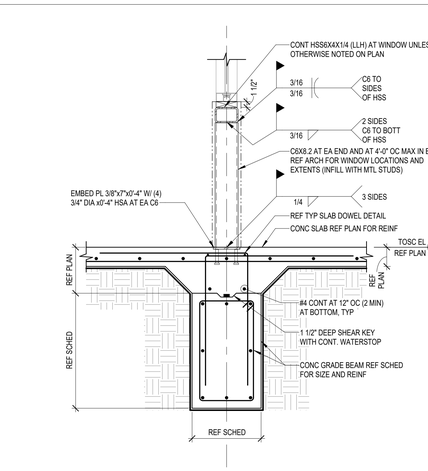
2 DOUBLE COLUMNS W/ONE PIER
3/4" = 1'-0"



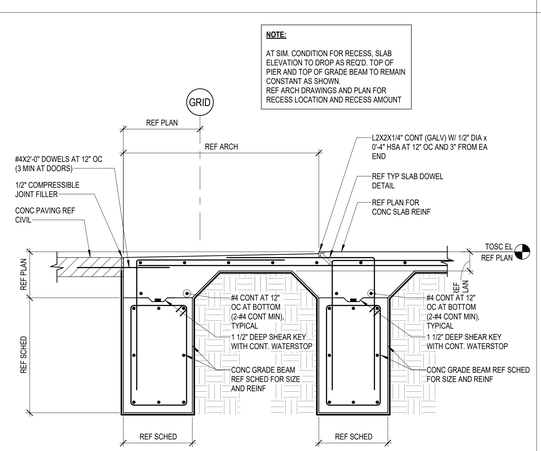
3 EXTERIOR WIDENED GRADE BEAM
3/4" = 1'-0"



4 FOUNDATION SECTION
3/4" = 1'-0"

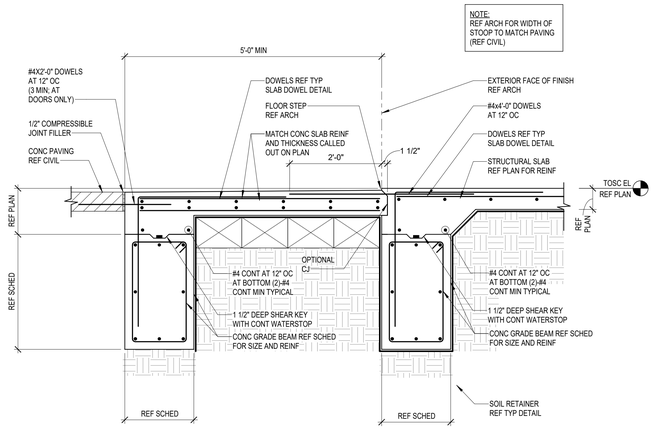


5 SECTION AT PLATFORM
3/4" = 1'-0"



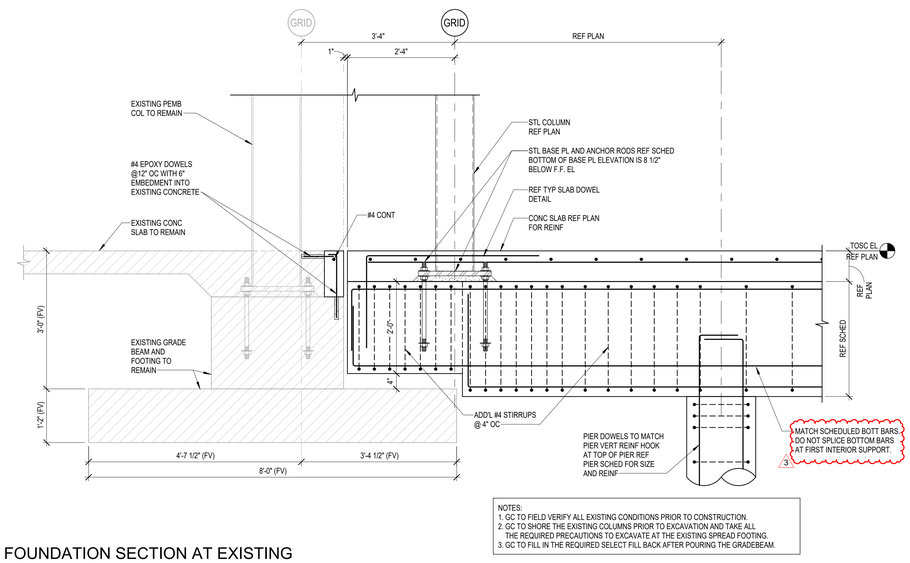
△2

6 EXTERIOR GRADE BEAM AT OVERHEAD DOOR
3/4" = 1'-0"



7 TYPICAL CONC SLAB-ON-GRADE STOOP AT EXTERIOR DOORS
3/4" = 1'-0"

10 INTERIOR STOREFRONT SUPPORT
3/4" = 1'-0"



9 FOUNDATION SECTION AT EXISTING
3/4" = 1'-0"

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1/8/2026 2:17:52 PM

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Phone: 832-912-6974
www.kubalaengineers.com
TBPE Reg. No. F-23612
TBAE Reg. No. 26812

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

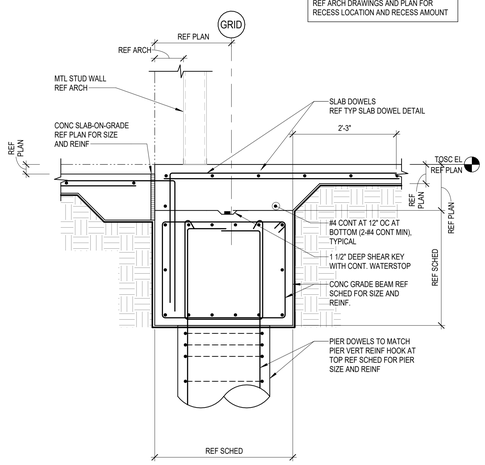
CHECKED BY: SI
DRAWN BY: CML

FOUNDATION DETAILS

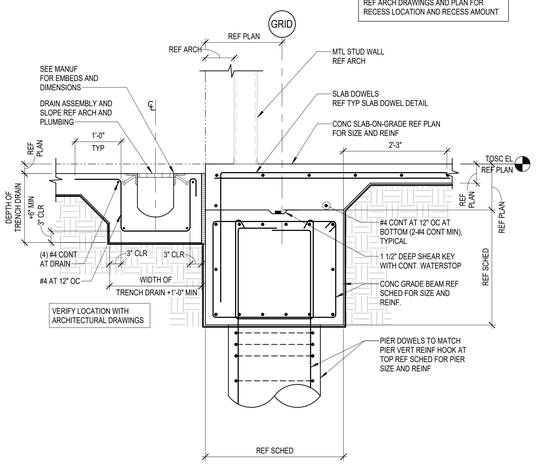
S-311

FOUNDATION DETAILS
S-312
FOR BLUEBEAM LABELING/DOOR:

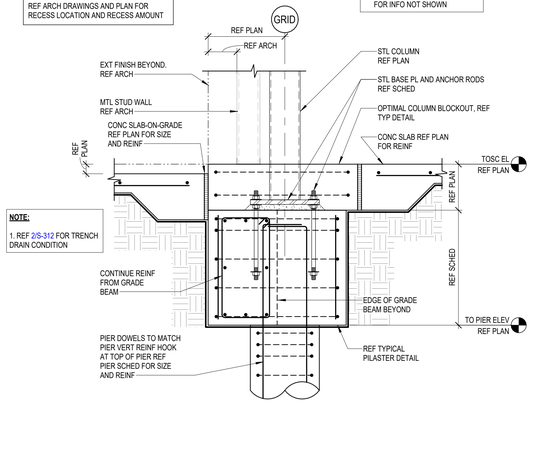
0"
1"



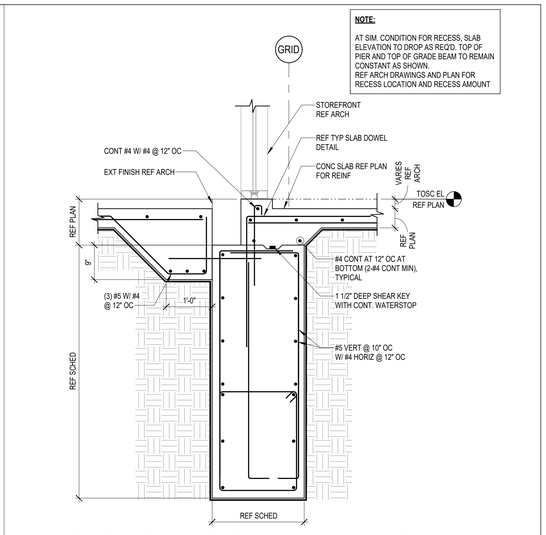
1 INTERIOR GRADE BEAM AT LEDGE
3/4" = 1'-0"



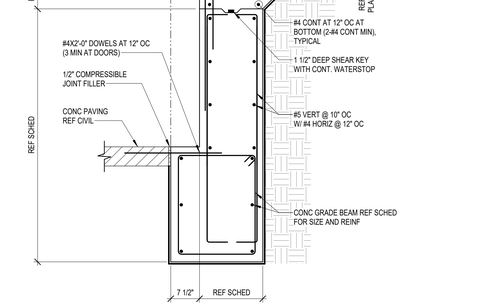
2 INTERIOR GRADE BEAM AT LEDGE
3/4" = 1'-0"



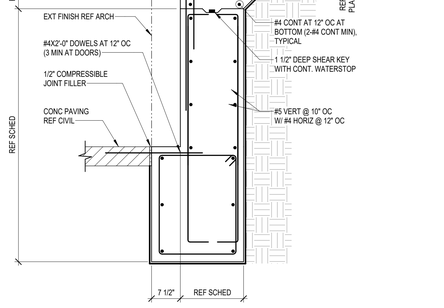
3 INTERIOR PILASTER AT COLUMN AT LEDGE
3/4" = 1'-0"



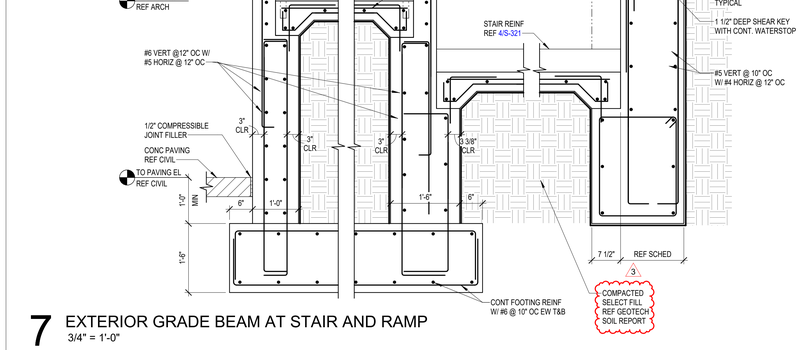
4 EXTERIOR GRADE BEAM AT STOREFRONT W/ SLAB RECESS
3/4" = 1'-0"



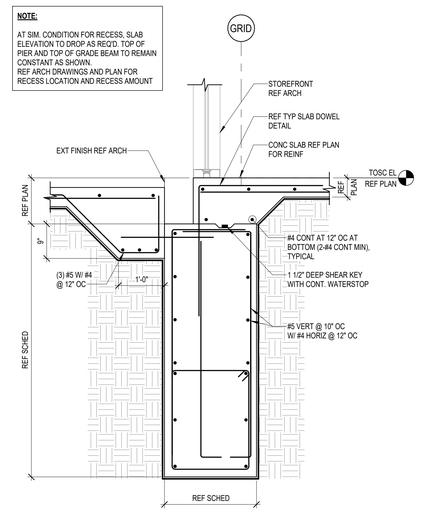
5 EXTERIOR GRADE BEAM AT DEEP LEDGE
3/4" = 1'-0"



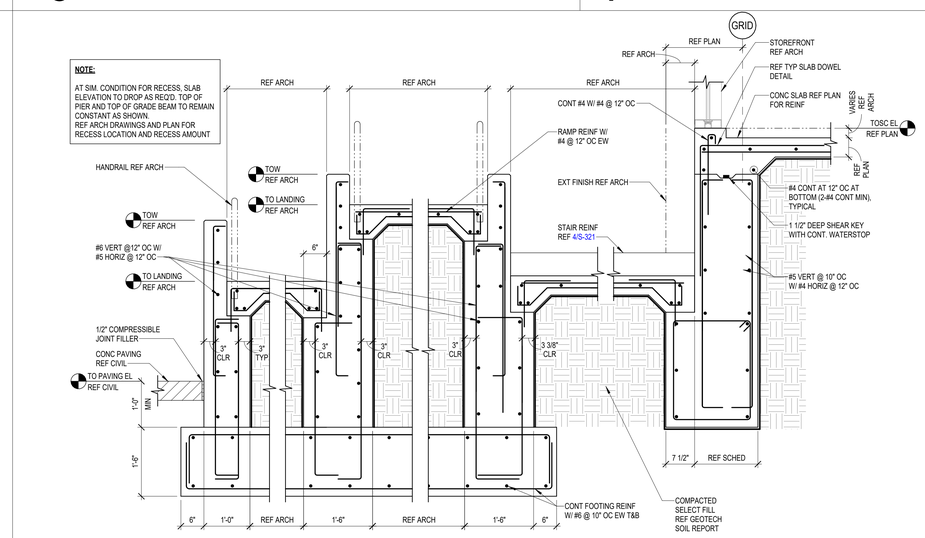
6 EXTERIOR GRADE BEAM AT STOREFRONT
3/4" = 1'-0"



7 EXTERIOR GRADE BEAM AT STAIR AND RAMP
3/4" = 1'-0"



8 EXTERIOR GRADE BEAM AT STOREFRONT
3/4" = 1'-0"



3
9 EXTERIOR GRADE BEAM AT STAIR AND RAMP
3/4" = 1'-0"

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Kubala ENGINEERS
www.kubalaengineers.com
TBPE FIRM #: 23612
TEL 832.667.1200

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI
DRAWN BY: CML

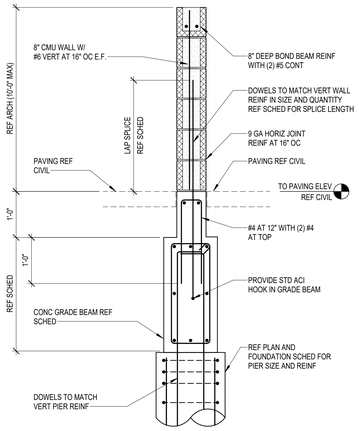
FOUNDATION DETAILS

S-312

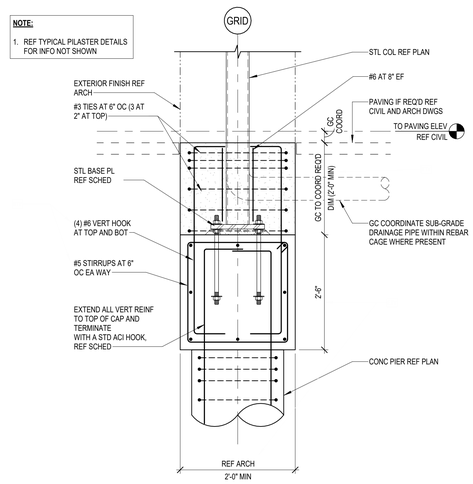
Plot Stamp:
1/8/2026 2:17:54 PM

SITE ITEMS FOUNDATION SECTIONS AND DETAILS
S-320
FOR BLUEBEAM LABELING/DOOR:

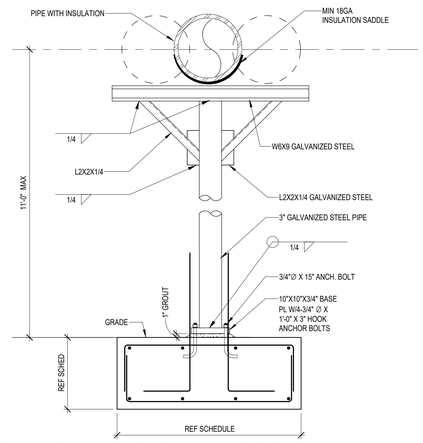
0"
1"



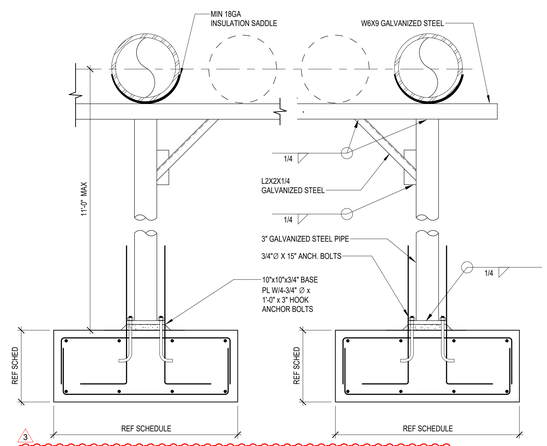
1 SCREEN WALL AT MECH YARD
3/4" = 1'-0"



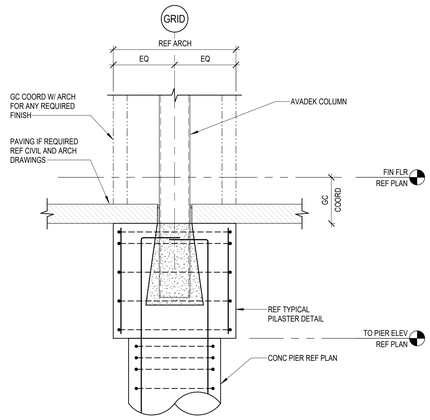
2 EXTERIOR COLUMN DETAIL
3/4" = 1'-0"

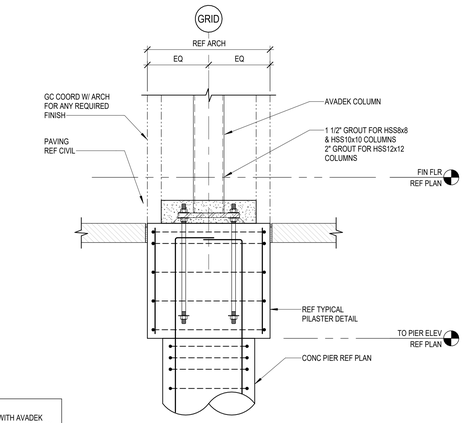


3 SINGLE COLUMN PIPE STANCHION DETAIL
NO SCALE



4 DOUBLE PIPE STANCHION PIPE SUPPORT DETAIL
NO SCALE

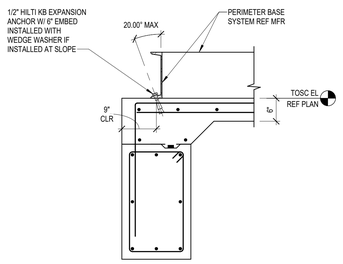




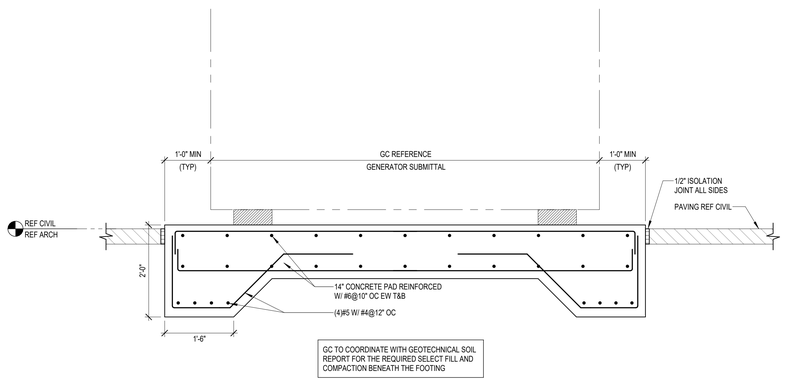
NOTE:
GC SHALL COORDINATE WITH AVADEK FOR REQUIRED COLUMN BASE CONDITION (TYP)

5 TYP AVADEK CANOPY COLUMN DETAIL
3/4" = 1'-0"

GC NOTE:
GC TO COORDINATE WITH THE MODULAR BUILDING SUBMITTAL TO DETERMINE THE ANCHOR HOLES IN THE BASE



6 ANCHORING AT CENTRAL PLANT
3/4" = 1'-0"



GC TO COORDINATE WITH GEOTECHNICAL SOIL REPORT FOR THE REQUIRED SELECT FILL AND COMPACTION BENEATH THE FOOTING

8 FOUNDATION DETAIL FOR RELOCATED FIRE PUMP EQUIPMENT
3/4" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

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Galena Park ISD

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106120
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December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI
DRAWN BY: CML

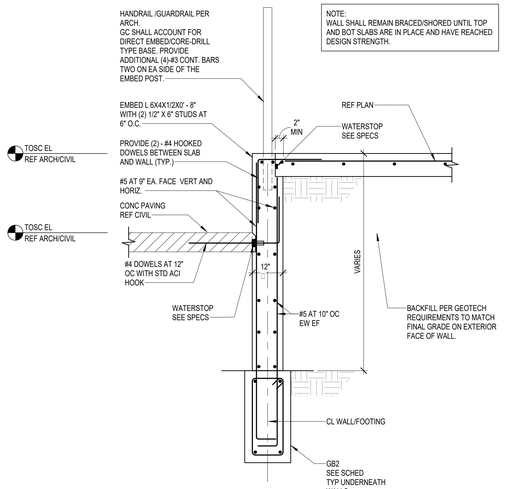
SITE ITEMS FOUNDATION SECTIONS AND DETAILS

S-320

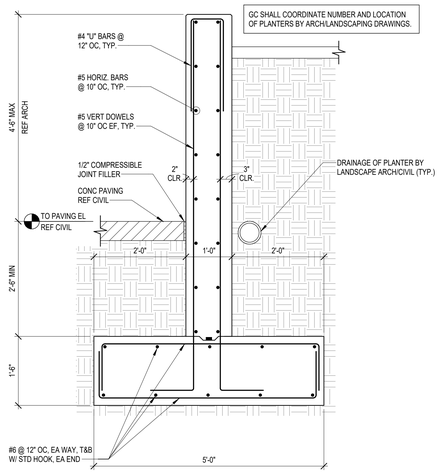
Plot Stamp:
1/8/2026 2:17:55 PM

SITE ITEMS FOUNDATION SECTIONS AND DETAILS
S-321
FOR BLUEBEAM LABELING/DOOR:

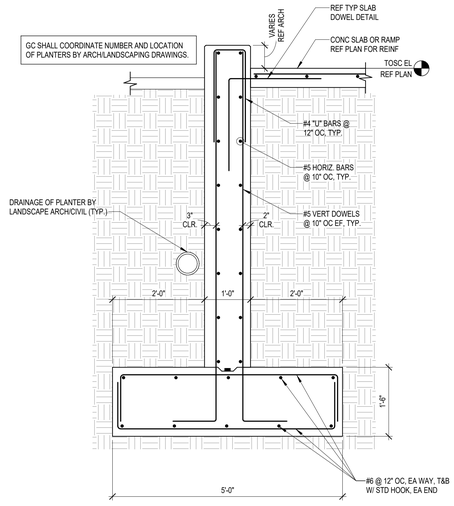
0"
1"



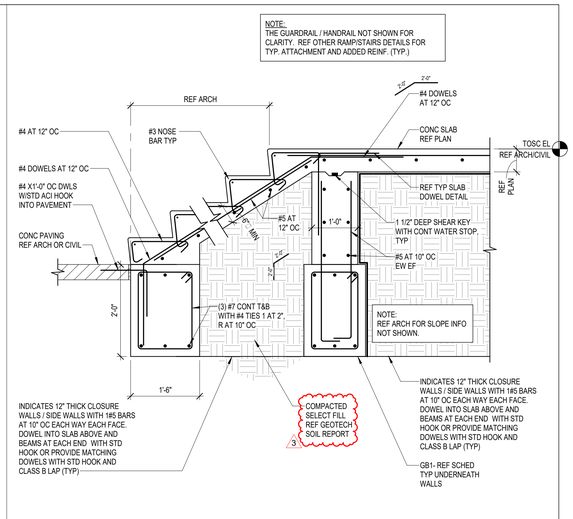
1 CONCRETE WALL
3/4" = 1'-0"



2 SECTION AT PLANTER WALL
3/4" = 1'-0"



3 SECTION AT PLANTER WALL AND SLAB/RAMP
3/4" = 1'-0"



4 CONCRETE STAIR DETAIL
3/4" = 1'-0"

5 RAMP AT PIER
3/4" = 1'-0"

6 CONCRETE RAMP DETAIL
3/4" = 1'-0"

7 CONCRETE RAMP DETAIL
3/4" = 1'-0"

8 CONCRETE STAIR DETAIL
3/4" = 1'-0"

9 RAMP DETAIL
3/8" = 1'-0"

Plot Stamp:
1/8/2026 2:17:56 PM

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TX: HOUSTON, TX
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0"
1"

FOR BLUEBEAM LABEL INDOOR:

GENERAL COMPOSITE STEEL NOTES AND TYP DETAILS
S-504

SLABS FORM DECK (AT FLOORS):

1. FLOOR DECK SHALL BE CONTINUOUS OVER FOUR OR MORE SUPPORTS. AT LOCATIONS WHERE SINGLE OR DOUBLE SPAN CONDITIONS OCCUR, THE CONTRACTOR SHALL EITHER SHORE THE DECK, OR ADJUST THE GAGE THICKNESS OF THE DECK IN ACCORDANCE WITH THE MANUFACTURER 'S RECOMMENDATIONS. DECK SHALL BE DESIGNED TO PROVIDE EQUIVALENT OR GREATER LOAD CAPACITY AS THE SPECIFIED DECK SUPPORT OVER FOUR SUPPORTS.

2. DESIGN OF COMPOSITE STEEL BEAMS AND DETAILS FOR CONSTRUCTION ARE BASED ON THE FOLLOWING DECK SYSTEM:

METAL DECK SCHEDULE

DECK DESIGNATION	DECK GAUGE	SDI DECK TYPE	DECK DEPTH (IN)	Ie+ (IN4)	Ie- (IN4)	Se+ (IN3)	Se- (IN3)	Fy (KSI)	METAL DECK CONNECTION SCHEDULE: FASTEN DECK TO SUPPORT MEMBERS — ATTACHMENT PATTERN (W/N)	FASTEN DECK TO SUPPORT MEMBERS — SUPPORT FASTENERS	SIDELAP FASTENERS
3.0 VLI	20	COMPOSITE	3.0	0.919	0.921	0.512	0.539	50	36/4	5/8" PUDDLE WELD	1-1/2" TOP ARC SEAM WELDS @ 12" OC
2.0 VLI	18	COMPOSITE	2.0	0.409	0.407	0.326	0.337	50	36/4	5/8" PUDDLE WELD	1-1/2" TOP ARC SEAM WELDS @ 12" OC

Ie+: POSITIVE EFFECTIVE MOMENT OF INERTIA
Ie-: NEGATIVE EFFECTIVE MOMENT OF INERTIA
Se+: POSITIVE EFFECTIVE SECTION MODULUS
Se-: NEGATIVE EFFECTIVE SECTION MODULUS
FY:YIELD STRENGTH
W/N: SHEET WIDTH / NUMBER OF CONNECTIONS EACH SHEET

3. COMPOSITE STEEL BEAMS DO NOT REQUIRE SHORING TO SUPPORT THE WET WEIGHT OF CONCRETE. BEAMS WILL BE HIGHLY STRESSED AS CONCRETE IS PLACED AND MUST BE POSITIVELY BRACED BY THE METAL DECK CONNECTIONS. DO NOT EXCEED CONCRETE THICKNESSES SHOWN.

4. WARNING: IN NON-SHORED CONSTRUCTION, EXCESSIVE CONCRETE WEIGHT DURING CASTING CAN CAUSE SUPPORTING BEAMS TO COLLAPSE. DO NOT, UNDER ANY CIRCUMSTANCES, EXCEED THE DESIGN SLAB THICKNESS BY MORE THAN 3/4 INCH. CAREFULLY CHECK BEAM CAMBERS AND RETURN ANY FOUND TO BE OUT OF TOLERANCE TO THE SHOP FOR CORRECTION.

5. PRIOR TO ERECTING THE FIRST COMPOSITE BEAMS, THE CONTRACTOR SHALL CALL A SPECIAL PRE-CONSTRUCTION MEETING WITH APPLICABLE SUBCONTRACTORS, TESTING LABORATORY, ARCHITECT AND STRUCTURAL ENGINEER TO REVIEW ALL REQUIREMENTS AND ESTABLISH A QUALITY CONTROL PROCEDURE.

6. THE FINISHED COMPOSITE FLOOR SHALL NOT BE LOADED WITH CONSTRUCTION MATERIALS BEFORE THE CONCRETE HAS ATTAINED 75 PERCENT OF ITS SPECIFIED STRENGTH.

7. ALL SHEAR STUDS SHALL BE FIELD APPLIED, UNLESS OTHERWISE NOTED. SIZE SHALL BE SELECTED FROM THE FOLLOWING TABLE DEPENDING ON DECK AND SLAB DIMENSIONS:

DECK THICKNESS	TOTAL SLAB THICKNESS	SHEAR STUDS
3"	5.5"	3/4" DIA. X 5"
3"	6.5"	3/4" DIA. X 5"
3"	7.5"	3/4" DIA. X 5"
2"	5.5"	3/4" DIA. X 5"
2"	6.5"	3/4" DIA. X 5"

8. PLACE THE INDICATED NUMBER OF SHEAR STUDS ALONG THE LENGTH OF THE BEAM OR BEAM SEGMENT AS SHOWN IN THE SHEAR STUD PLACEMENT DIAGRAMS. STUDS SHALL BE EQUALLY SPACED IN A SINGLE ROW WHERE POSSIBLE, ALLOWING A SINGLE STUD IN THE DECK FLUTES, WHERE APPLICABLE. WHERE ADDITIONAL STUDS ARE REQUIRED TO OBTAIN THE SPECIFIED NUMBER OF STUDS IN A LENGTH OF BEAM, PLACE STUDS IN TANDEM PAIRS PER THE SHEAR STUD PLACEMENT DIAGRAM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING PROPER STUD LAYOUT FOR EACH BEAM PRIOR TO INSTALLATION OF STUDS IN THE FIELD. REFER TO TYPICAL DETAILS FOR PLACEMENT OF SHEAR STUDS ON BEAMS.

9. WHERE MULTIPLE NUMBERS OF STUDS ARE SHOWN FOR A BEAM, PLACE EACH QUANTITY OF STUDS IN THE CORRESPONDING BEAM SEGMENT WHERE THE NUMBER IS SHOWN.

10. PROVIDE CAMBER IN MEMBERS WHERE INDICATED. SPECIFIED CAMBER APPLIES AT JOBSITE, JUST PRIOR TO ERECTION, LYING DOWN FLAT SO THAT MEMBER WEIGHT HAS NO EFFECT. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT OR COMPENSATE FOR CAMBER LOSS DURING SHIPMENT. MEASURED CAMBER IN MEMBERS UP TO 50'-0" LONG SHALL BE WITHIN A TOLERANCE OF -0" TO +1/2" FROM AMOUNT SPECIFIED. FOR MEMBERS GREATER THAN 50'-0" LONG, BOTH POSITIVE AND NEGATIVE TOLERANCE MAY INCREASE 1/8" FOR EVERY 10'-0" OF LENGTH IN EXCESS OF 50'-0". MEMBERS WITH A FIELD MEASURED CAMBER OUTSIDE OF SPECIFIED TOLERANCE SHALL BE RETURNED TO SHOP.

11. SUPPORT CAMBERED MEMBERS DURING SHIPMENT AND HANDLING IN A MANNER WHICH WILL NOT RESULT IN LOSS OF CAMBER.

12. THE CONTRACTOR SHALL MEASURE AND RECORD CAMBER OF ALL BEAMS UPON ARRIVAL AND BEFORE ERECTION FOR COMPLIANCE WITH THE SPECIFIED CAMBER. MEASURE LYING FLAT WITH WEB HORIZONTAL. MEMBERS OUTSIDE THE CAMBER TOLERANCE SHALL BE RETURNED TO THE SHOP FOR CORRECTION. CAMBERS MEASURED BY THE CONTRACTOR ARE TO BE VERIFIED BY THE OWNER'S TESTING LABORATORY.

13. PLACE AN EXTRA LAYER OF WIRE MESH 6'-0" WIDE IN THE TOP OF THE SLAB ABOVE ALL INTERIOR GIRDERS WHICH RUN PARALLEL TO THE DECK SPAN.

14. PLACE SUPPORTS FOR WIRE MESH ON METAL DECK, SO THAT THE MESH IS MAINTAINED IN POSITION 3/4" BELOW THE TOP OF SLAB.

15. METAL DECK SHALL, IN GENERAL, BE FASTENED TO STEEL FRAMEWORK BY WELDING SHEAR STUDS THROUGH THE DECK. IF FIELD WELDED SHEAR STUDS THROUGH METAL DECK ARE NOT CALLED FOR IN SCHEDULE OR ON DRAWINGS,DECK SHALL BE WELDED TO STEEL FRAMEWORK BY PUDDLE WELDS NOT LESS THAN 3/4" DIAMETER, SPACED NOT MORE THAN 1'-0". WHERE SHEAR STUD SPACING EXCEEDS SPECIFIED MAXIMUM DECK WELD SPACING, USE ADDITIONAL PUDDLE WELDS AT 1'-0" BETWEEN STUDS. WHERE 2 UNITS ABUT, EITHER END-TO-END OR SIDE-TO-SIDE, EACH SHALL BE SO FASTENED TO STEEL FRAMING.

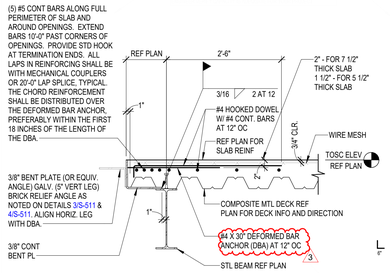
16. WELD GIRDER FILLERS TO STEEL BEAM WITH 2" LONG FILLET WELDS AT A MAXIMUM SPACING OF 12 INCHES. CONNECT SIDES OF ADJACENT UNITS WITH 1 1/2" LONG WELDS AT 3'-0" OC MAX.

17. DEFLECTION OF DECK AND/OR STEEL WILL TAKE PLACE WHEN CONCRETE IS POURED. THE SPECIFIED CONCRETE SLAB THICKNESS SHALL BE MAINTAINED AT COLUMN LOCATIONS. SLAB THICKNESS AWAY FROM THE COLUMNS WILL VARY DUE TO BEAM AND DECK DEFLECTIONS. MINIMUM THICKNESS OF CONCRETE REQUIRED MUST BE PROVIDED, AND TOP SURFACES OF SLABS MUST BE CONSTRUCTED WITHIN SPECIFIED TOLERANCES. WHERE THERE IS RESIDUAL CAMBER IN STEEL BEAMS, FINISHED CONCRETE SURFACE SHALL FOLLOW CAMBER OF BEAMS, BUT FINISHED SURFACE SHALL NOT VARY BY MORE THAN 1/4" FROM ONE BEAM TO ANOTHER ADJACENT BEAM, NOR 1/2" TOTAL FOR LENGTH OF FLOOR. CAMBERED BEAMS ARE INTENDED TO DEFLECT TO APPROXIMATELY A STRAIGHT LINE UNDER FULL WEIGHT OF CONCRETE SLAB, IF ALL TOP OF STEEL ELEVATIONS AND CAMBERS ARE AS SPECIFIED IN THE DRAWINGS. THE CONTRACTOR SHALL BE FAMILIAR WITH THE CONDITIONS OF THE PROJECT AND FURNISH THE MATERIALS REQUIRED TO CREATE THE SPECIFIED FLOOR ELEVATION. NO ADJUSTMENT WILL BE MADE TO CONTRACT PRICE FOR ADDITIONAL CONCRETE REQUIRED BECAUSE OF DEFLECTION OF DECK OR STEEL OR DUE TO DIFFERENTIAL CAMBER.

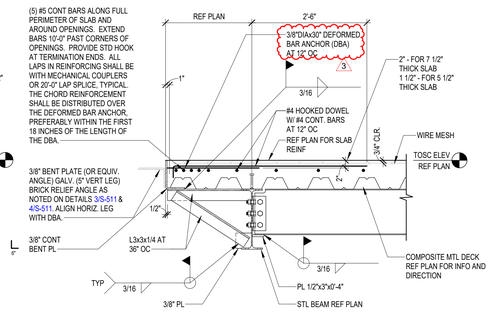
18. NO CONDUITS ALLOWED IN SLABS WITHOUT PRIOR APPROVAL FROM ENGINEER OF RECORD.

19. DO NOT HANG CONCENTRATED LOAD EXCEEDING 100LB FROM COMPOSITE METAL DECKING. ALL MEP APPURTENANCES EXCEEDING 100LB SHALL BE SUPPORTED BY STEEL BEAMS OR JOISTS.

20. ALL METAL FLOOR DECKING SHALL BE GALVANIZED WITH [G90] COATING CONFORMING TO ASTM A924.

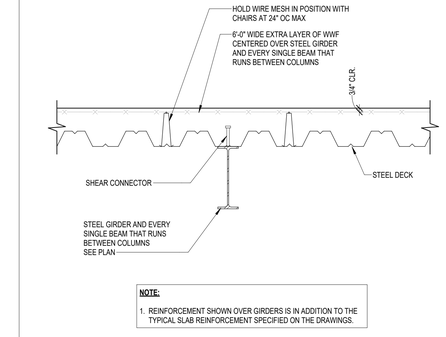


SLAB CANTILEVER 12" OR LESS



SLAB CANTILEVER >12" AND <30"

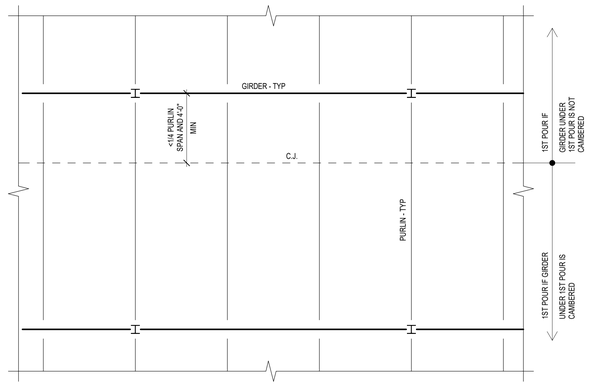
1 TYPICAL COMPOSITE SLAB EDGE DETAIL
NO SCALE



NOTE:

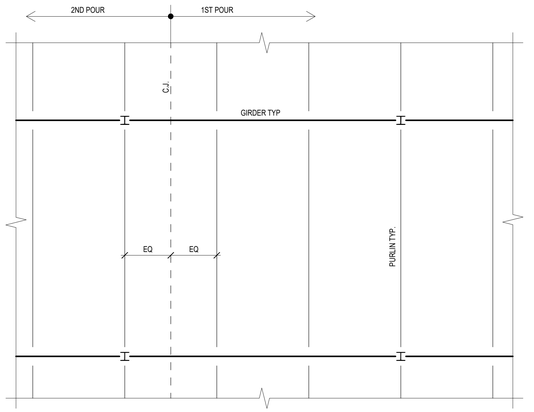
1. REINFORCEMENT SHOWN OVER GIRDERS IS IN ADDITION TO THE TYPICAL SLAB REINFORCEMENT SPECIFIED ON THE DRAWINGS.

2 TYPICAL DETAIL FOR ADD'L REINF IN COMPOSITE SLAB AT INTERIOR GIRDERS
NO SCALE



PLAN

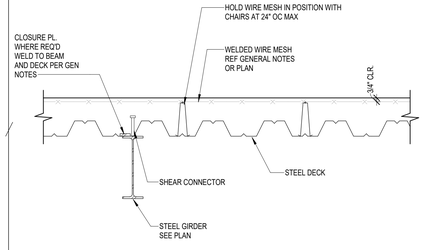
CONSTRUCTION JOINT - PARALLEL TO GIRDER



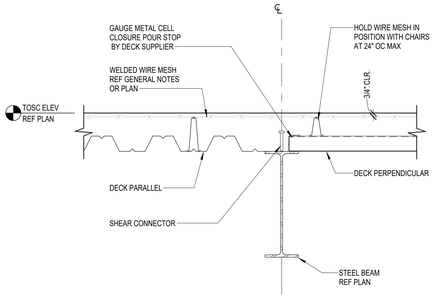
PLAN

CONSTRUCTION JOINT - PARALLEL TO PURLINS

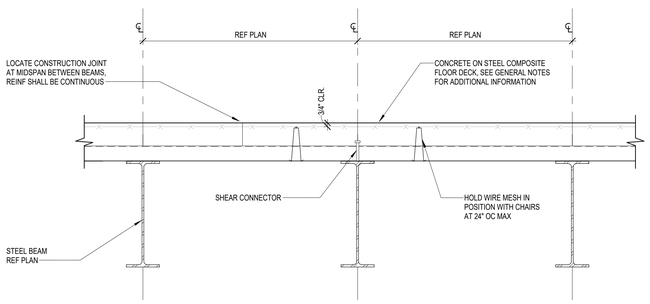
5 TYPICAL DETAIL FOR COMPOSITE SLAB CONSTRUCTION JOINTS
NO SCALE



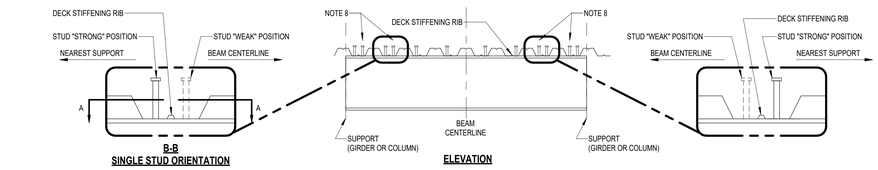
3 TYPICAL DECK PARALLEL TO BEAM
NO SCALE

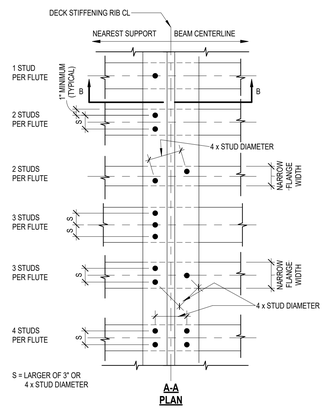


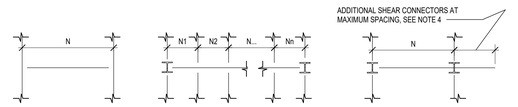
4 TYPICAL DECKING DIRECTION CHANGE
NO SCALE



6 TYPICAL DECK PERPENDICULAR TO BEAM
NO SCALE







NOTES:

1. N = NUMBER OF SHEAR CONNECTORS SPECIFIED ON PLAN. SHEAR CONNECTORS SHALL BE DISTRIBUTED ALONG THE LENGTH OF THE BEAM AS SHOWN IN CASES A THROUGH C.
2. REFER TO GENERAL NOTES FOR PLAN NOTATION.
3. REFER TO GENERAL NOTES FOR SHEAR CONNECTOR DIAMETER AND LENGTH.
4. UNLESS NOTED OTHERWISE, ALL BEAMS SHALL HAVE SHEAR CONNECTORS SPACED AT 24" MAXIMUM.
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 (OR THIRD ROW WHERE REQUIRED) SHALL BE PLACED SUCH THAT THE HIGHEST DENSITY OF SHEAR CONNECTORS OCCURS NEAR THE BEAM SUPPORT.
6. CH SHEAR CONNECTOR TO BE PLACED IN "STRONG" POSITION (FURTHEST FROM BEAM CENTERLINE).
7. SHEAR CONNECTORS MAY ONLY BE PLACED IN "WEAK" POSITION WHEN THERE ARE MULTIPLE STUDS PER FLUTE. REFER TO PLAN VIEW AT LEFT FOR PERMISSIBLE CONFIGURATIONS.

SHEAR CONNECTORS HAVE HIGHEST CAPACITIES WHEN PLACED AS SHOWN. IF STUDS ARE NOT PLACED PER THIS DETAIL, 25% MORE STUDS MUST BE INSTALLED. EQUALLY SPACE ADDITIONAL STUDS ALONG THE BEAM.

7 TYPICAL SHEAR CONNECTOR PLACEMENT DIAGRAM - IN STUDS " STRONG" POSITION
NO SCALE

PBK
www.pbk.com
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HOUSTON, TX
713.865.6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Kubala ENGINEERS
www.kubalaengineers.com
TX REG: NO. F-23612

Galena Park ISD

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI
DRAWN BY: CML

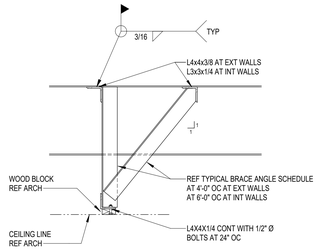
GENERAL COMPOSITE STEEL NOTES AND TYP DETAILS

S-504

Plot Stamp:
1/8/2026 2:17:57 PM

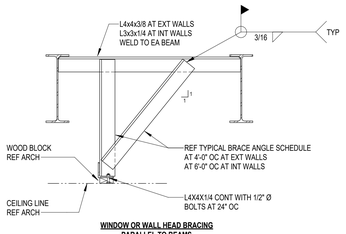
GENERAL STEEL NOTES AND TYP DETAILS
S-508
FOR BLUEBEAM LABELING/DOOR:

0"
1"



WINDOW OR WALL HEAD BRACING
PERPENDICULAR TO BEAMS

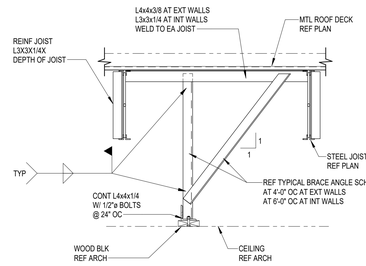
DECK NOT SHOWN FOR CLARITY



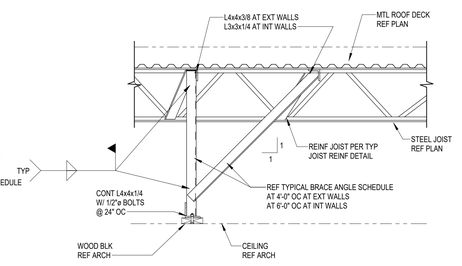
WINDOW OR WALL HEAD BRACING
PARALLEL TO BEAMS

1 TYPICAL WINDOW OR WALL HEAD BRACING AT BEAMS
NO SCALE

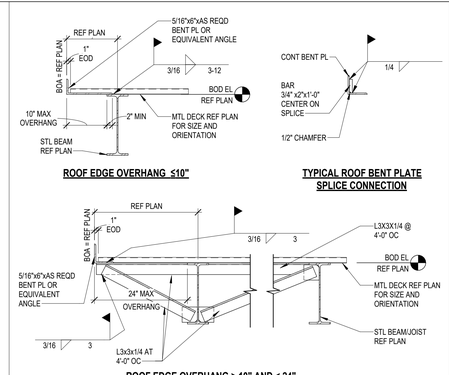
NOTE:
DESIGN JOISTS FOR ADDTIONAL DEAD LOAD = 1.2 KIPS



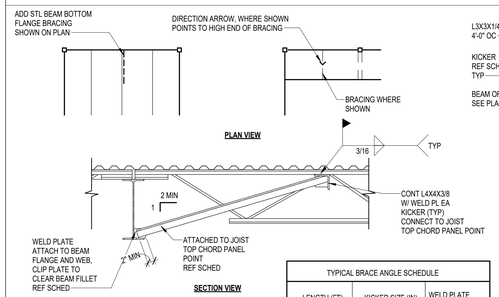
NOTE:
DESIGN JOISTS FOR ADDTIONAL DEAD LOAD = 0.25 KLF



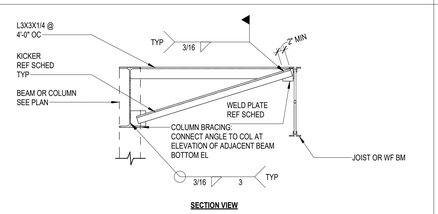
2 TYPICAL WINDOW OR WALL HEAD BRACING AT JOISTS
NO SCALE



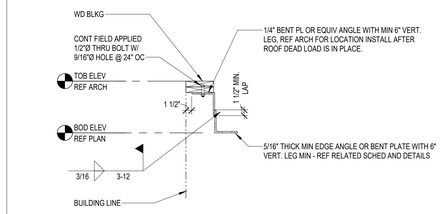
3 TYPICAL ROOF EDGE DETAIL
3/4" = 1'-0"



TYPICAL BRACE ANGLE SCHEDULE		
LENGTH (FT)	KICKER SIZE (IN)	WELD PLATE SIZE (IN)
UP TO 3'-0"	L2-1/2X2-1/2X3/16	PL 4x4x3/8
3'-0" TO 8'-0"	L3 x 3 x 1/4	PL 4x4x3/8
8'-0" TO 12'-0"	L4 x 4x 1/4	PL 5X5X3/8
12'-0" TO 16'-0"	L5 x 5x 5/16	PL 6x6x3/8

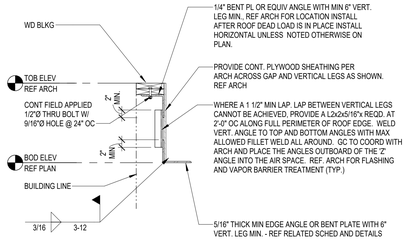


4 TYPICAL BEAM/JOIST BOTTOM FLANGE BRACE
NO SCALE

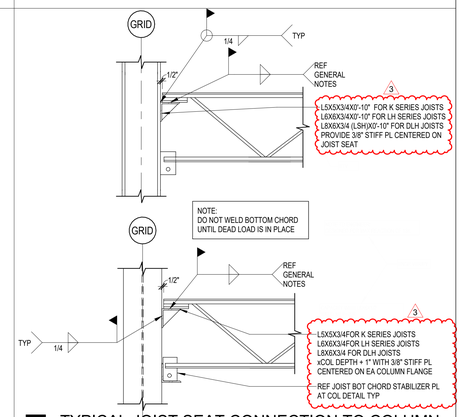


5 TYPICAL ROOF EDGE ANGLE
3/4" = 1'-0"

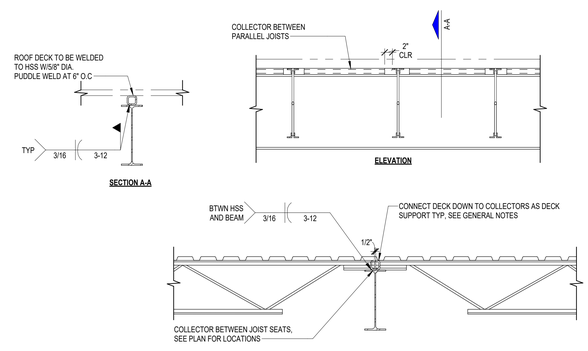
GC TO COORDINATE THIS DETAIL WITH ARCHITECT TO ENSURE ALL WATERPROOFING REQUIREMENTS ARE MET.

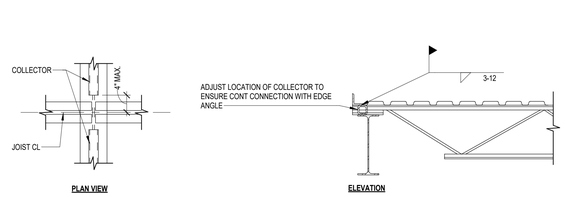


6 TYPICAL ROOF EDGE ANGLE
3/4" = 1'-0"



7 TYPICAL JOIST SEAT CONNECTION TO COLUMN
3/4" = 1'-0"

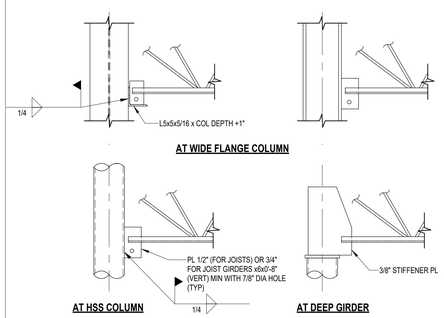




NOTES:
1. PROVIDE HSS BETWEEN JOIST SEATS AT WIND BRACING BEAMS, MOMENT FRAME BEAMS AND COLLECTOR BEAMS WITH "H" FORCE SPECIFIED AT END OF THE BEAM PLAN.
2. JOISTS SHALL BE STAGGERED WHERE MINIMUM BEARING LENGTHS CANNOT BE MET DUE TO FLANGE WIDTH. MAXIMUM JOIST SPACING SPECIFIED ON PLAN SHALL NOT BE EXCEEDED.
3. IF JOIST SEAT DEPTHS ARE DIFFERENT AT THE BEAM, USE DEEPER JOIST SEAT FOR BOTH JOISTS

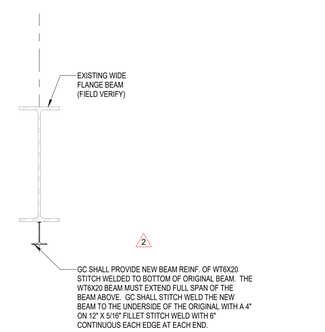
JOIST SEAT DEPTH	COLLECTOR SIZE
2 1/2	HSS 2 1/2 x 2 1/2 x 1/4
3	HSS 3 x 3 x 1/4
3 1/2	HSS 3 1/2 x 2 1/2 x 1/4
4	HSS 4 x 4 x 1/4
5	HSS 5X3X1/4
6	C 6 x 8.2
8	C 8 x 11.5

8 TYPICAL DIAPHRAGM SHEAR COLLECTOR AT STEEL BEAM
NO SCALE



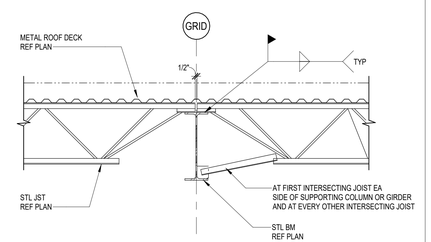
NOTE: DO NOT WELD JOIST BOTTOM CHORD TO PLATE

9 TYPICAL JOIST/JOIST GIRDER BOTTOM CHORD STABILIZER PLATE AT COLUMN
3/4" = 1'-0"



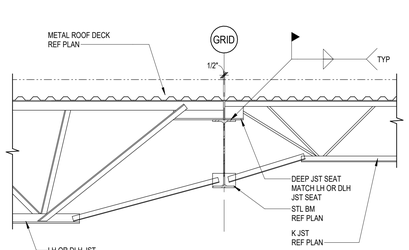
10 EXISTING BEAM REINF
3/4" = 1'-0"

NOTES:
1. JOISTS SHALL BE STAGGERED WHERE MINIMUM BEARING LENGTHS CANNOT BE MET DUE TO FLANGE WIDTH. MAXIMUM JOIST SPACING SPECIFIED ON PLAN SHALL NOT BE EXCEEDED.
2. SEE TYP BEAM/JOIST BOTTOM FLANGE DETAIL FOR INFO NOT SHOWN HERE.

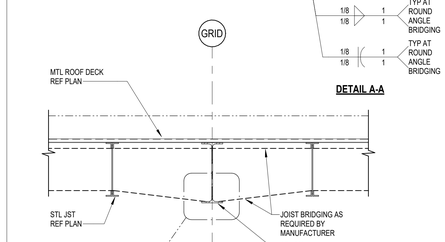


11 TYPICAL INTERIOR DETAIL AT K JOIST BEARING
NO SCALE

NOTES:
1. JOISTS SHALL BE STAGGERED WHERE MINIMUM BEARING LENGTHS CANNOT BE MET DUE TO FLANGE WIDTH. MAXIMUM JOIST SPACING SPECIFIED ON PLAN SHALL NOT BE EXCEEDED.
2. SEE TYP BEAM/JOIST BOTTOM FLANGE DETAIL FOR INFO NOT SHOWN HERE.

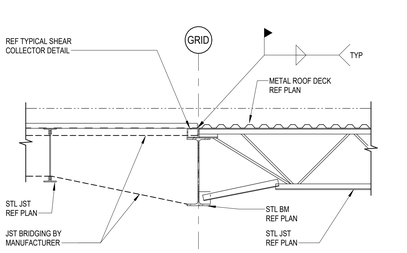


12 TYPICAL INTERIOR DETAIL AT LH AND DLH JOIST BEARING
NO SCALE



13 TYPICAL JOIST BRIDGING CONNECTION TO INTERIOR STEEL BEAM
NO SCALE

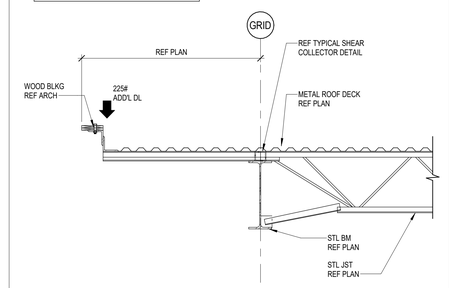
NOTES:
1. JOISTS SHALL BE STAGGERED WHERE MINIMUM BEARING LENGTHS CANNOT BE MET DUE TO FLANGE WIDTH. MAXIMUM JOIST SPACING SPECIFIED ON PLAN SHALL NOT BE EXCEEDED.
2. SEE TYP BEAM/JOIST BOTTOM FLANGE DETAIL FOR INFO NOT SHOWN HERE.



14 TYPICAL CHANGE IN DECK DIRECTION AT STEEL BEAM
NO SCALE

JOIST MFR DESIGN EXTENSION
FOR THE FOLLOWING LOADS
UNLESS EXTENSION SIZE NOTED ON PLAN:

DEAD & LIVE LOAD: REFER TO STEEL JOIST
FRAMING GENERAL NOTES



15 TYPICAL ROOF JOIST EXTENTION
NO SCALE

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
Galena Park, TX 77547

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TX FIRM: BR 1608
HOUSTON, TX
713-965-0008

Kubala Engineers
www.kubalaengineers.com
713.467.1001
TX REG: No F-23612

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI
DRAWN BY: CML

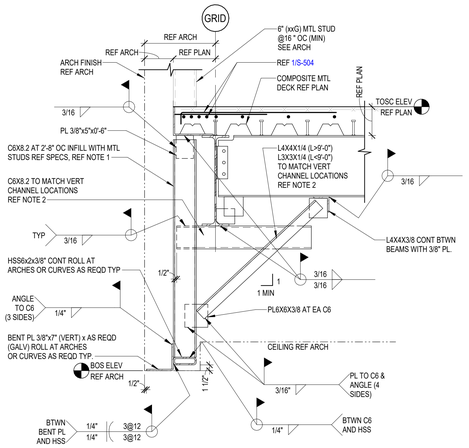
GENERAL STEEL NOTES AND TYP DETAILS

S-508

Plot Stamp:
1/8/2026 2:17:59 PM

COMPOSITE FRAMING DETAILS
S-512
FOR BLUEBEAM LABELINGDOOR:

0"
1"



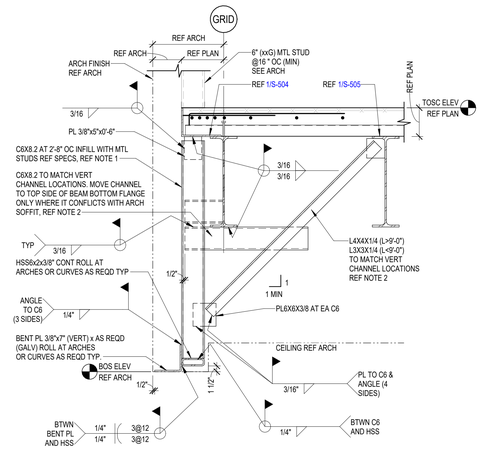
NOTES:

1. LOCATE FIRST VERT CHANNEL AT 6" MAX. FROM EACH END OF OPENING AN EACH SIDE OF COLUMN FACE.
2. LOWER END OF THE DIAGONAL ANGLE SHALL BE PLACED LESS THAN 6" ABOVE THE TUBE. RAISE THIS END UP ONLY TO AVOID CONFLICTING WITH THE CEILING.
3. AT JOISTS, PROVIDE JOIST CHORD STRENGTHENING BRACING WHERE BRACING IS NOT AT JOIST TOP CHORD PANEL POINT.

NOTES:

FOR OPENINGS LESS THAN 8'-0" WIDE
REFER TO LOOSE LINTEL SCHEDULE.

1 TYPICAL MASONRY SUPPORT OVER OPENINGS GREATER THAN 8'-0"
3/4" = 1'-0"



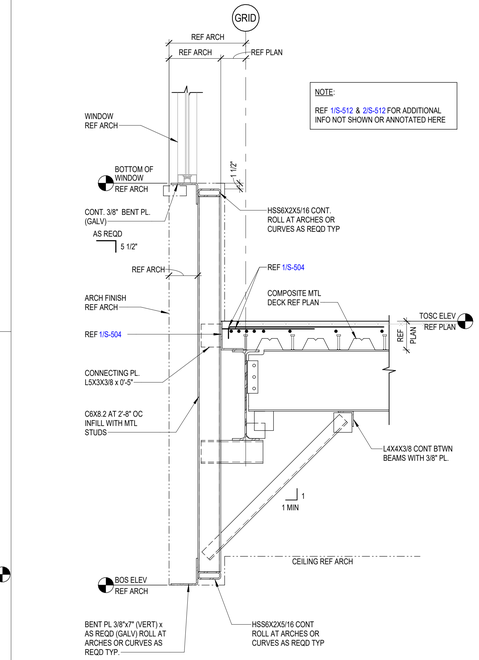
NOTES:

1. LOCATE FIRST VERT CHANNEL AT 6" MAX. FROM EACH END OF OPENING AN EACH SIDE OF COLUMN FACE.
2. LOWER END OF THE DIAGONAL ANGLE SHALL BE PLACED LESS THAN 6" ABOVE THE TUBE. RAISE THIS END UP ONLY TO AVOID CONFLICTING WITH THE CEILING.
3. AT JOISTS, PROVIDE JOIST CHORD STRENGTHENING BRACING WHERE BRACING IS NOT AT JOIST TOP CHORD PANEL POINT.

NOTES:

FOR OPENINGS LESS THAN 8'-0" WIDE
REFER TO LOOSE LINTEL SCHEDULE.

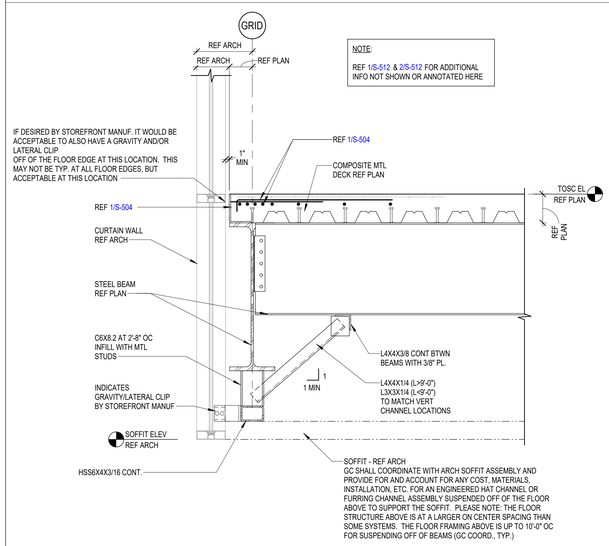
2 TYPICAL MASONRY SUPPORT OVER OPENINGS GREATER THAN 8'-0"
3/4" = 1'-0"



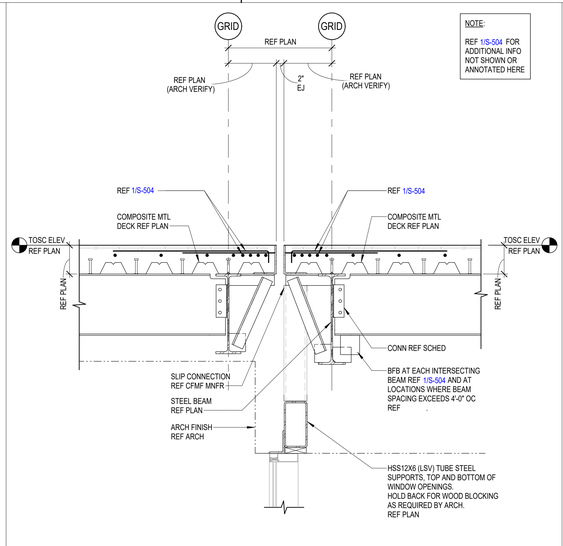
NOTE:

REF 1/S-512 & 2/S-512 FOR ADDITIONAL INFO NOT SHOWN OR ANNOTATED HERE

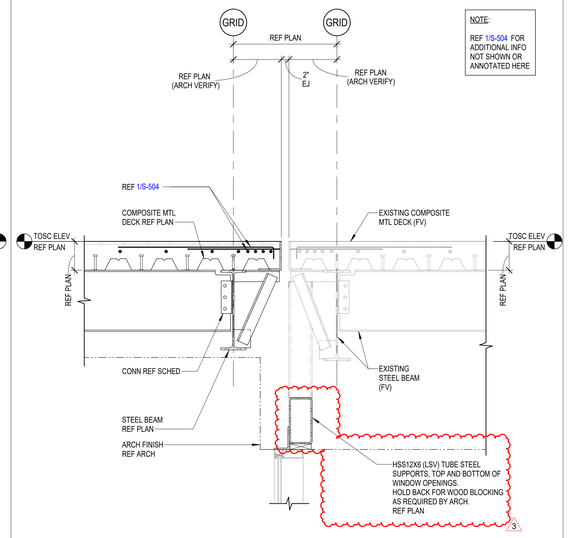
6 HANGING BRICK DETAIL
3/4" = 1'-0"



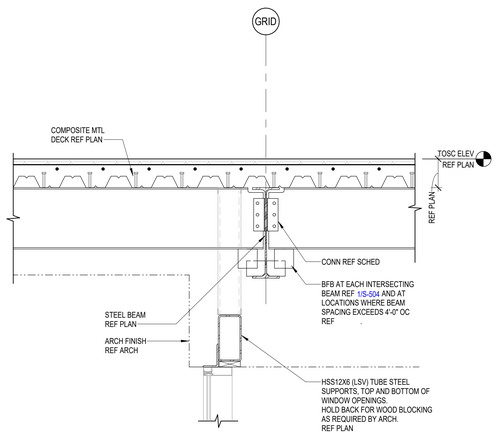
3 TYPICAL CURTAINWALL SUPPORT AT SECOND FLOOR
3/4" = 1'-0"



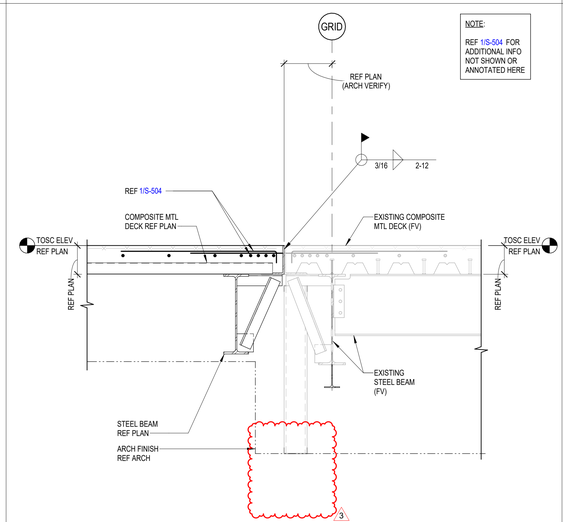
4 EXTERIOR FLOOR EDGE DETAIL AT EJ
3/4" = 1'-0"



5 EXTERIOR FLOOR EDGE DETAIL AT EJ AT EXISTING
3/4" = 1'-0"



7 FRAMING SECTION
3/4" = 1'-0"



8 EXTERIOR FLOOR EDGE DETAIL AT EJ AT EXISTING
3/4" = 1'-0"

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Kubala ENGINEERS
www.kubalaengineers.com
Phone: (832) 487-4774
TX REG: No F-23612

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI
DRAWN BY: CML

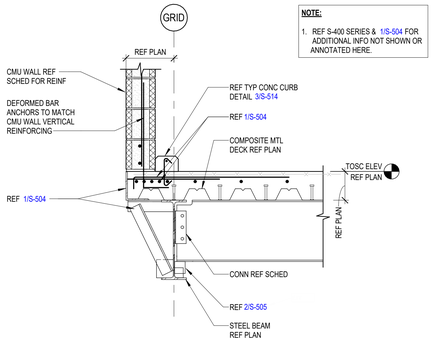
COMPOSITE FRAMING DETAILS

S-512

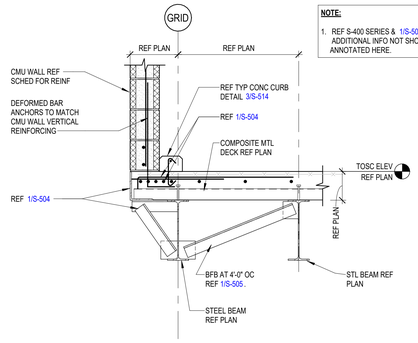
Plot Stamp:
1/8/2026 2:18:01 PM

COMPOSITE FRAMING DETAILS
S-514
FOR BLUEBEAM LABELINGDOOR:

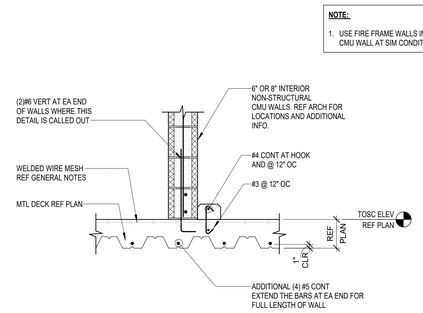
0"
1"



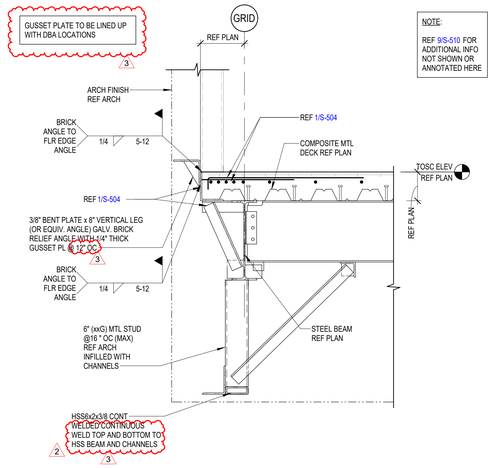
1 BEAM AT CMU WALL W/CONC CURB
3/4" = 1'-0"



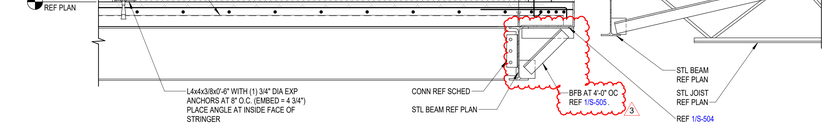
2 BEAM AT CMU WALL W/CONC CURB
3/4" = 1'-0"



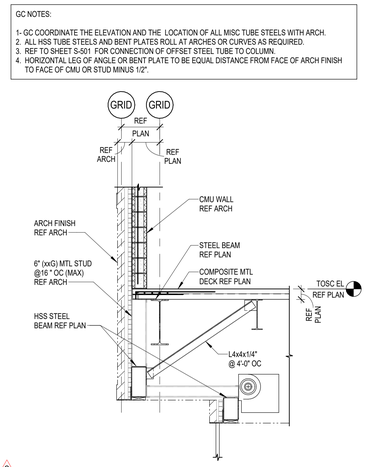
3 TYPICAL CURB AT COMPOSITE FLOOR
3/4" = 1'-0"



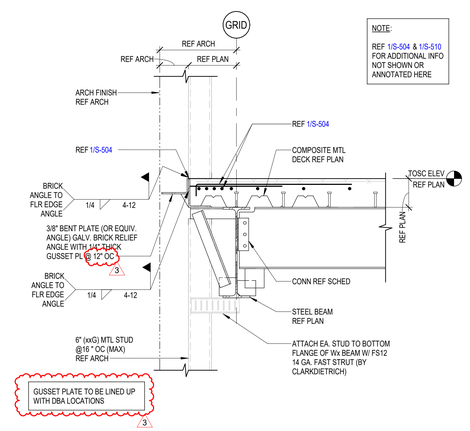
4 COMPOSITE FLOOR EDGE
3/4" = 1'-0"



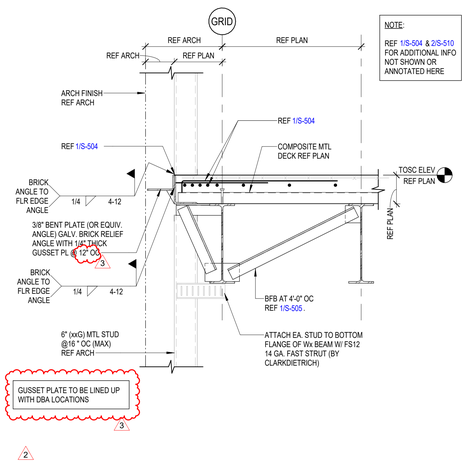
5 STAIR ON GEOFOAM TO ROOF
3/4" = 1'-0"



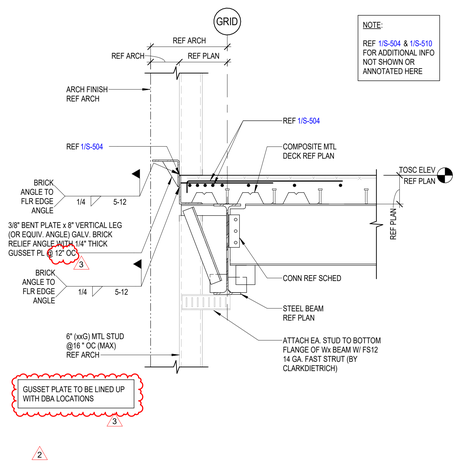
6 AREA B FRAMING SECTION
3/8" = 1'-0"



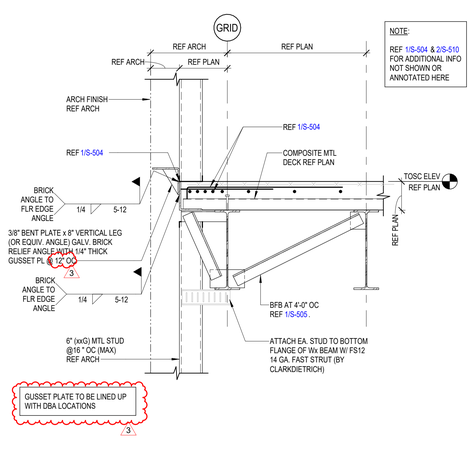
7 FLOOR EDGE DETAIL AT STUD
3/4" = 1'-0"



8 FLOOR EDGE DETAIL AT STUD
3/4" = 1'-0"



9 FLOOR EDGE DETAIL AT STUD
3/4" = 1'-0"



10 FLOOR EDGE DETAIL AT STUD
3/4" = 1'-0"

Plot Stamp:
1/8/2026 2:18:02 PM

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Kubala ENGINEERS
Phone: 832-595-8574
www.kubalaengineers.com
TX REG: No F-23612

Galena Park ISD

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI
DRAWN BY: CML

COMPOSITE FRAMING DETAILS

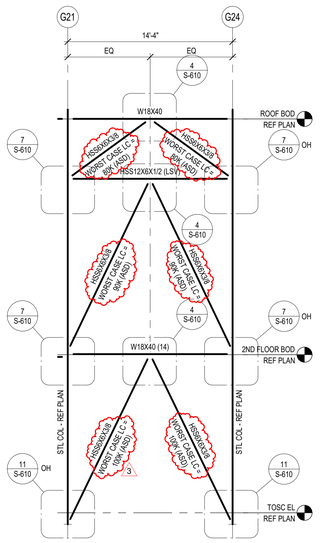
S-514

TYPICAL WIND BRACING ELEVATIONS - AREA A

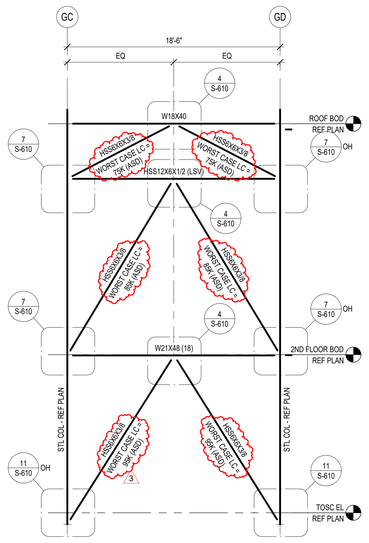
S-600

FOR BLUEBEAM LABELING/DOOR:

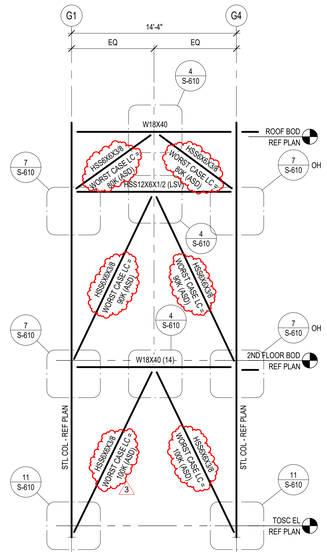
0"
1"



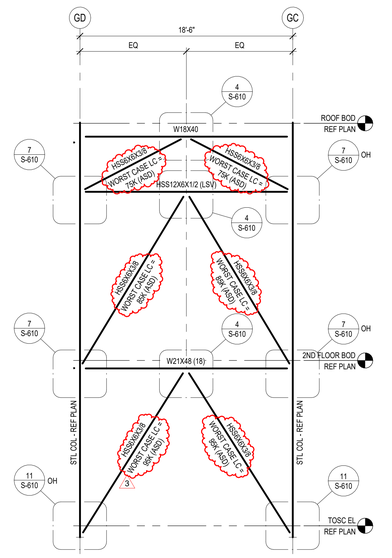
1 BRACE ELEVATION
3/16" = 1'-0"



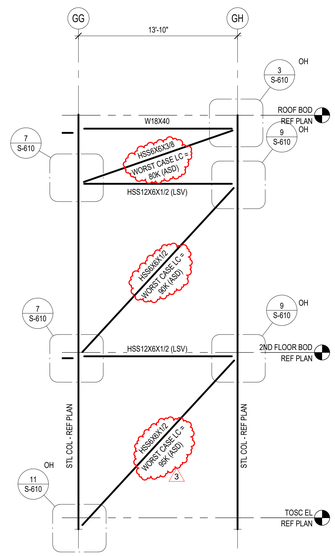
2 BRACE ELEVATION
3/16" = 1'-0"



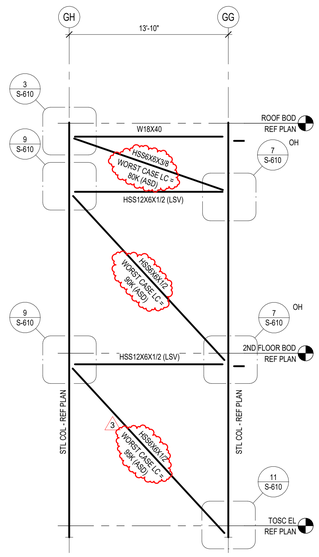
3 BRACE ELEVATION
3/16" = 1'-0"



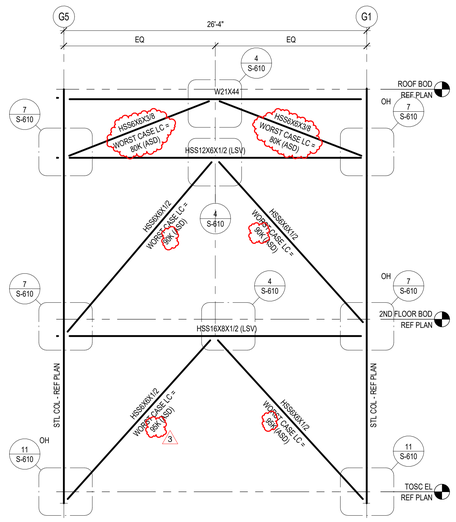
4 BRACE ELEVATION
3/16" = 1'-0"



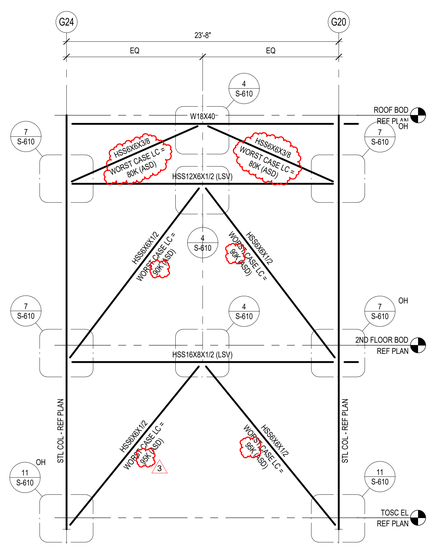
1
5 BRACE ELEVATION
3/16" = 1'-0"



1
6 BRACE ELEVATION
3/16" = 1'-0"



7 BRACE ELEVATION
3/16" = 1'-0"



8 BRACE ELEVATION
3/16" = 1'-0"

Plot Stamp:
1/8/2026 2:18:04 PM

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Kubala ENGINEERS
www.kubalaengineers.com
TBPE/TBPLS Firm No. 23612
TX: 832.541.1127

Galena Park ISD

A

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI

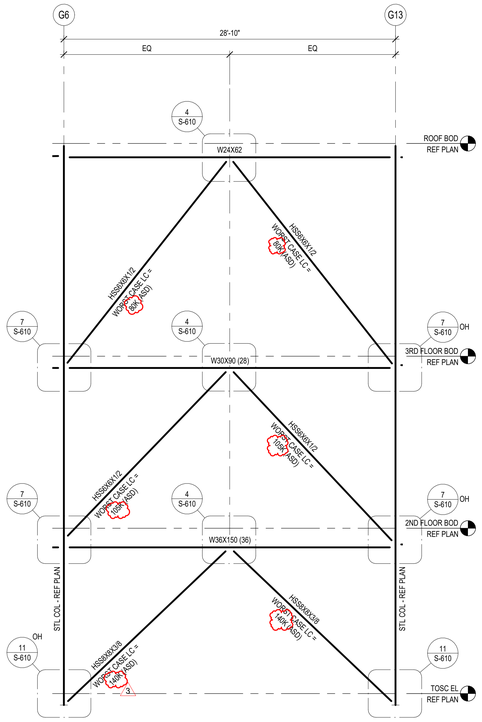
DRAWN BY: CML

TYPICAL WIND BRACING ELEVATIONS - AREA A

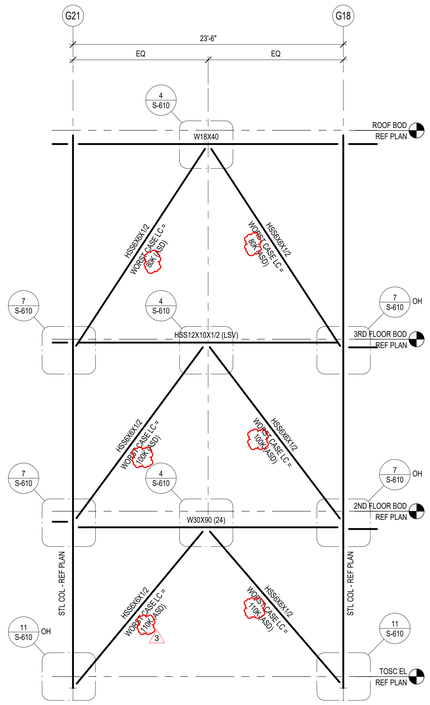
S-600

TYPICAL WIND BRACING ELEVATIONS - AREA B
S-601
FOR BLUEBEAM LABELING/DOOR:

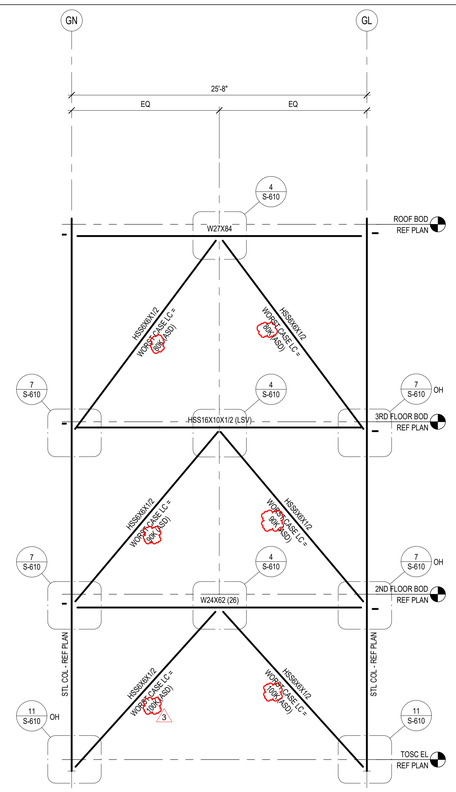
0"
1"



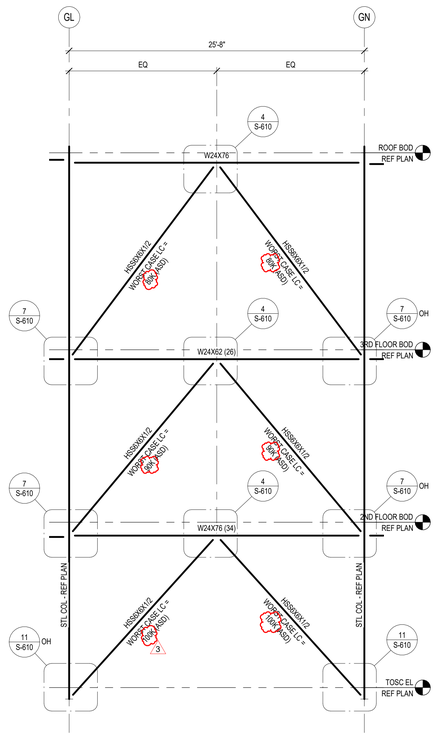
1 BRACE ELEVATION
3/16" = 1'-0"



2 BRACE ELEVATION
3/16" = 1'-0"

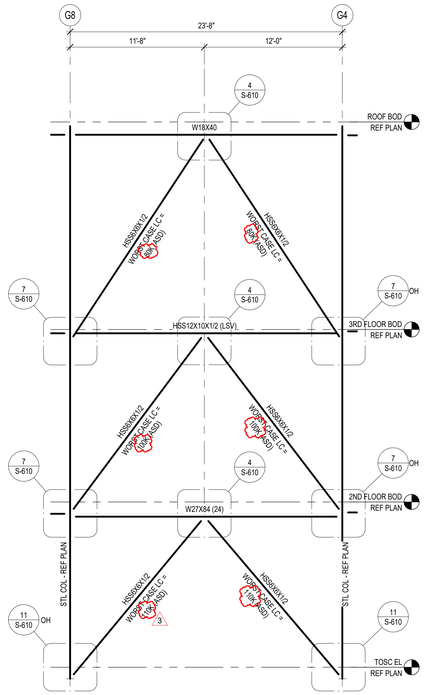


3 BRACE ELEVATION
3/16" = 1'-0"

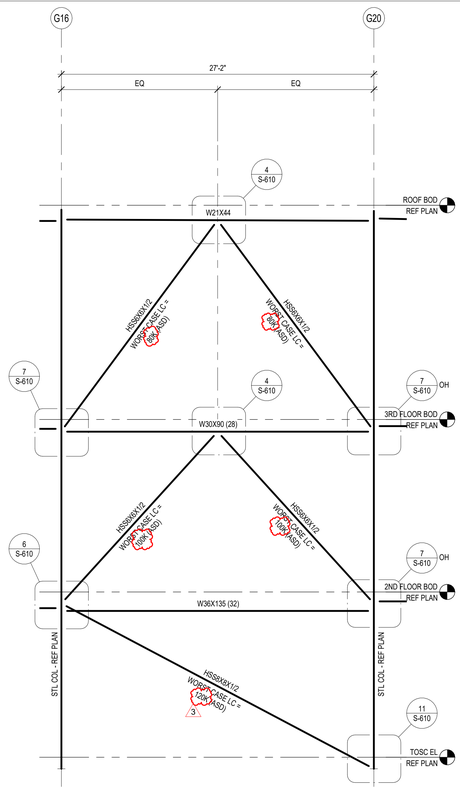


2

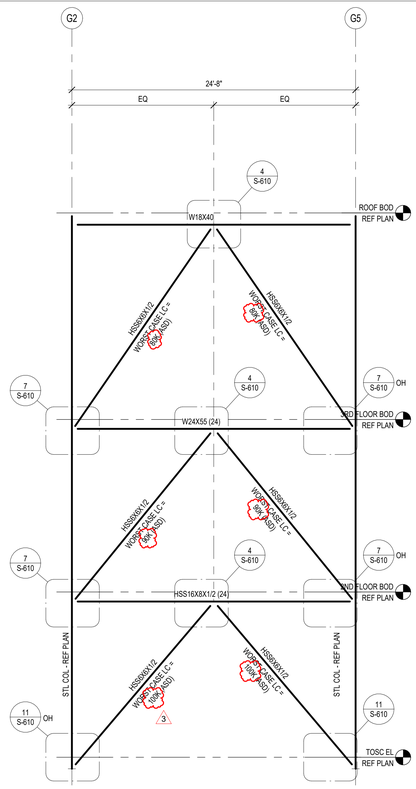
4 BRACE ELEVATION
3/16" = 1'-0"



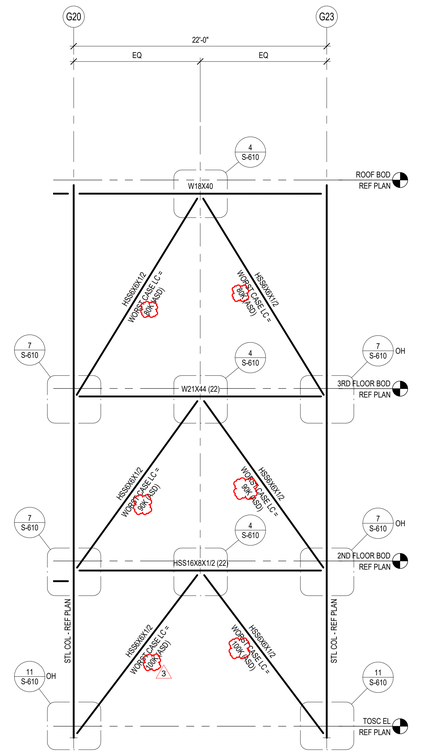
5 BRACE ELEVATION
3/16" = 1'-0"



6 BRACE ELEVATION
3/16" = 1'-0"



7 BRACE ELEVATION
3/16" = 1'-0"



8 BRACE ELEVATION
3/16" = 1'-0"

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www.kubalaengineers.com
TBPE: F-23612
TX: 4625 Ind. Dr. #2801

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 03	12/19/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI
DRAWN BY: CML

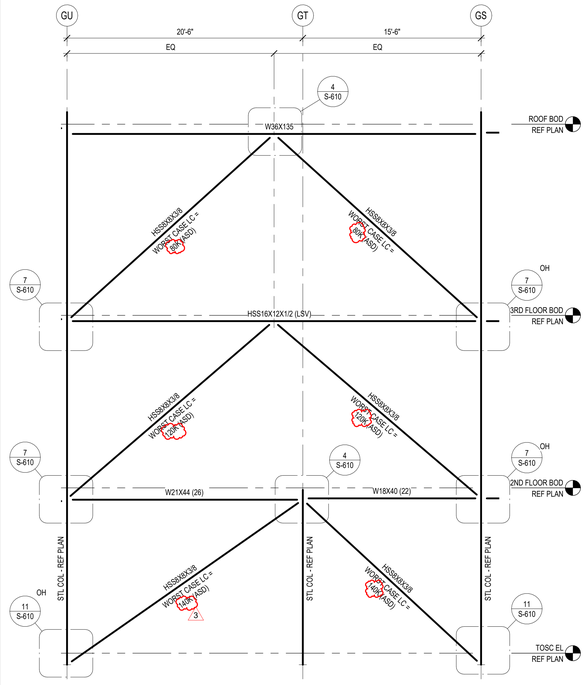
TYPICAL WIND BRACING ELEVATIONS - AREA B

S-601

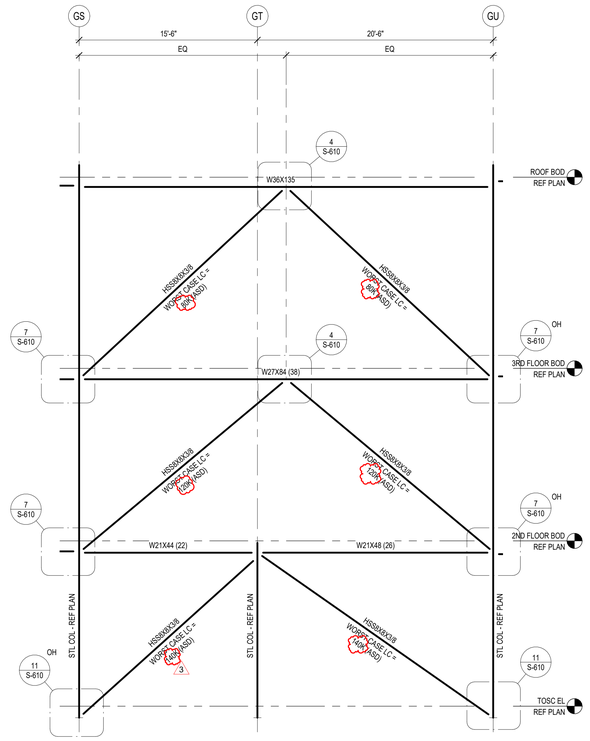
Plot Stamp:
1/8/2026 2:18:07 PM

TYPICAL WIND BRACING ELEVATIONS - AREA B
S-602
FOR BLUEBEAM LABELING/DOOR:

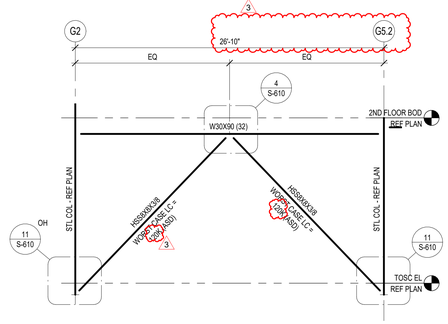
0"
1"



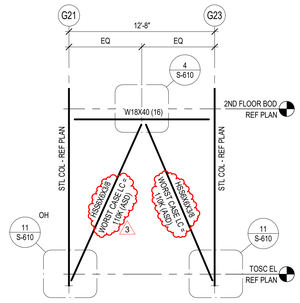
1 BRACE ELEVATION
3/16" = 1'-0"



2 BRACE ELEVATION
3/16" = 1'-0"



3 BRACE ELEVATION
3/16" = 1'-0"



4 BRACE ELEVATION
3/16" = 1'-0"

Plot Stamp:
1/8/2026 2:18:08 PM

PBK
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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
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ISSUE FOR PROPOSAL

Kubala ENGINEERS
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TBPE Firm No. F-23612
TBAE No. BR 14267

Galena Park ISD
EXCELLENCE IN ALL FORMS OF LEARNING

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADDENDUM 05	01/08/2026

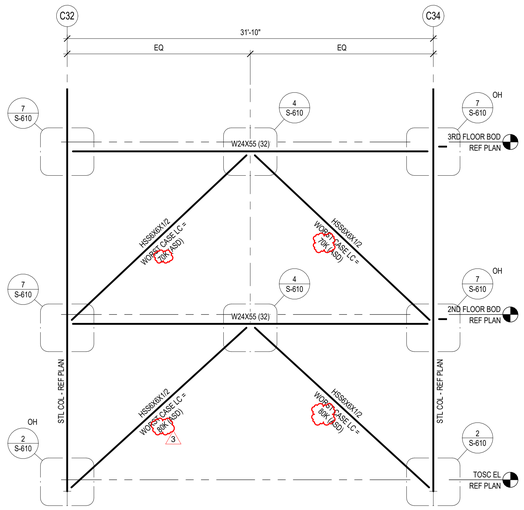
CHECKED BY: SI
DRAWN BY: CML

TYPICAL WIND BRACING ELEVATIONS - AREA B

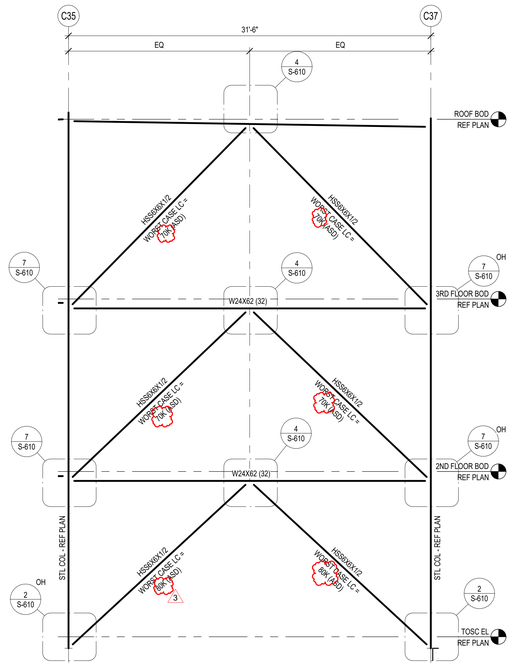
S-602

TYPICAL WIND BRACING ELEVATIONS - AREA C
S-603
FOR BLUEBEAM LABELING/DOOR:

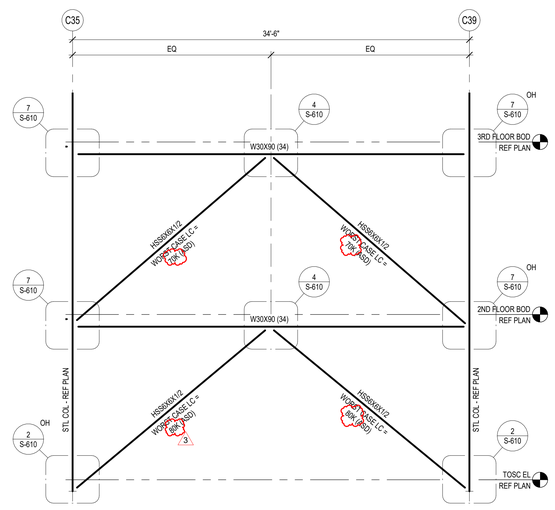
0"
1"



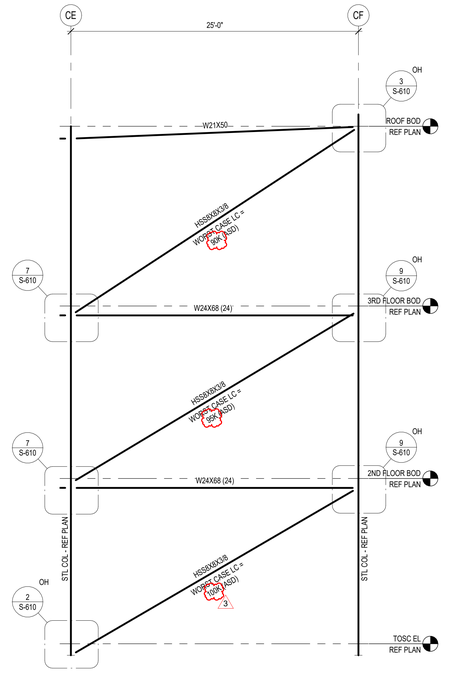
1 BRACE ELEVATION
3/16" = 1'-0"



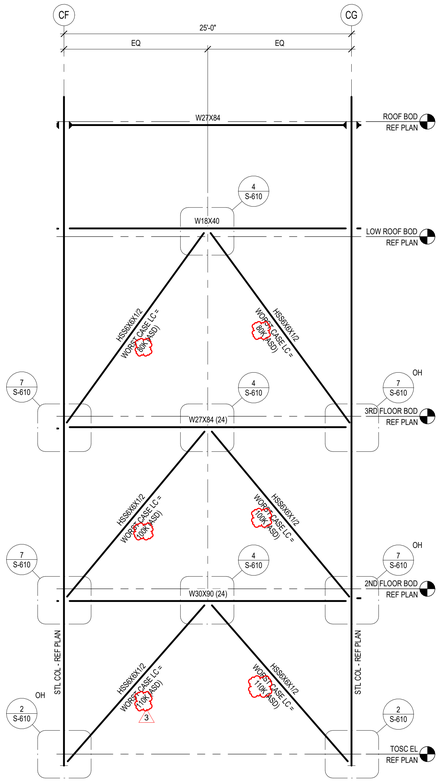
2 BRACE ELEVATION
3/16" = 1'-0"



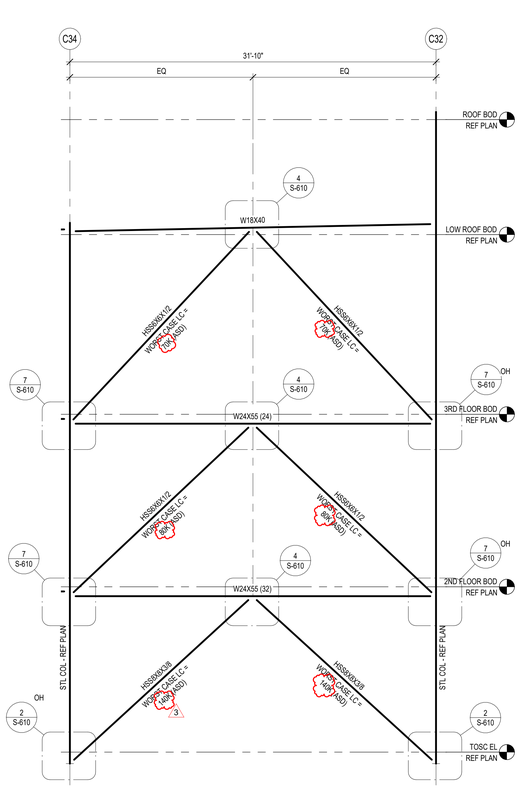
3 BRACE ELEVATION
3/16" = 1'-0"



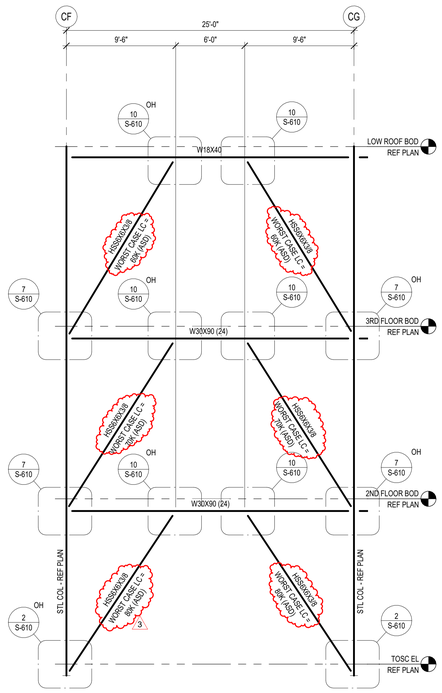
4 BRACE ELEVATION
3/16" = 1'-0"



5 BRACE ELEVATION
3/16" = 1'-0"



6 BRACE ELEVATION
3/16" = 1'-0"



7 BRACE ELEVATION
3/16" = 1'-0"

Plot Stamp:
1/8/2026 2:18:10 PM

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TBPE Reg. No. F-23612
TX. REG. No. F-23612

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

C

KEY PLAN
NORTH: PLAN ≈ TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI
DRAWN BY: CML

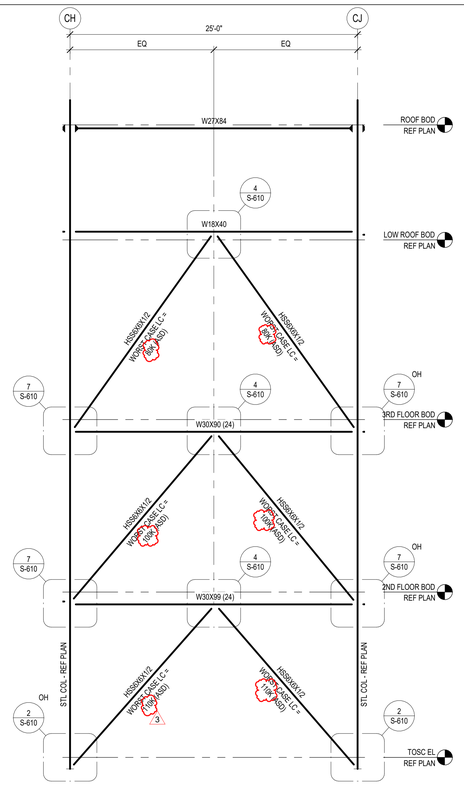
TYPICAL WIND BRACING ELEVATIONS - AREA C

S-603

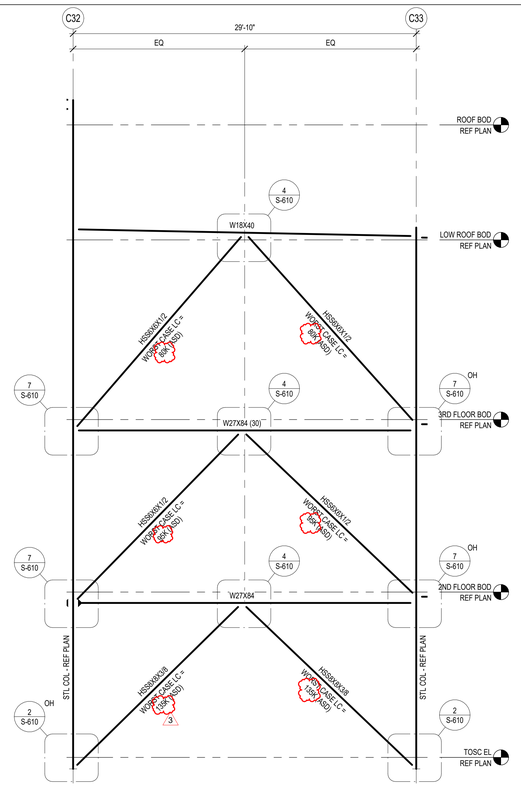
TYPICAL WIND BRACING ELEVATIONS - AREA D

S-604

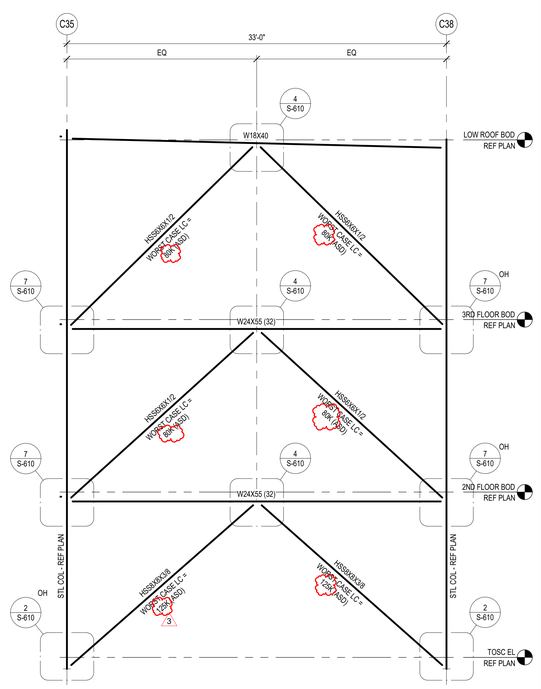
FOR BLUEBEAM LABELING/DOOR:



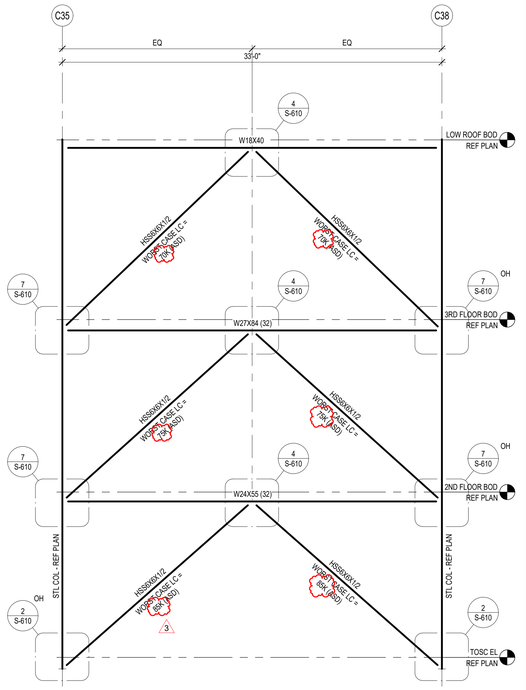
1 BRACE ELEVATION
3/16" = 1'-0"



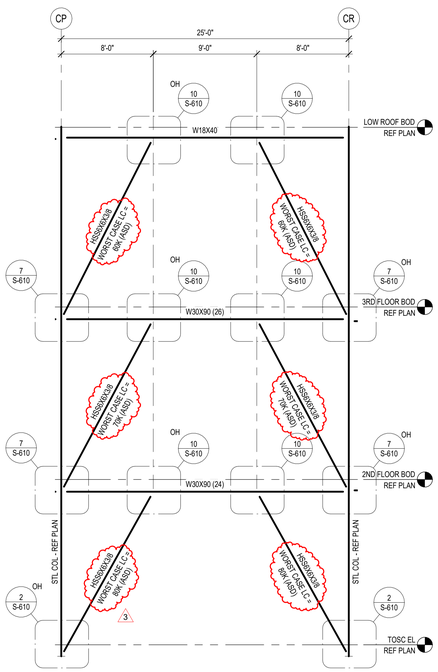
2 BRACE ELEVATION
3/16" = 1'-0"



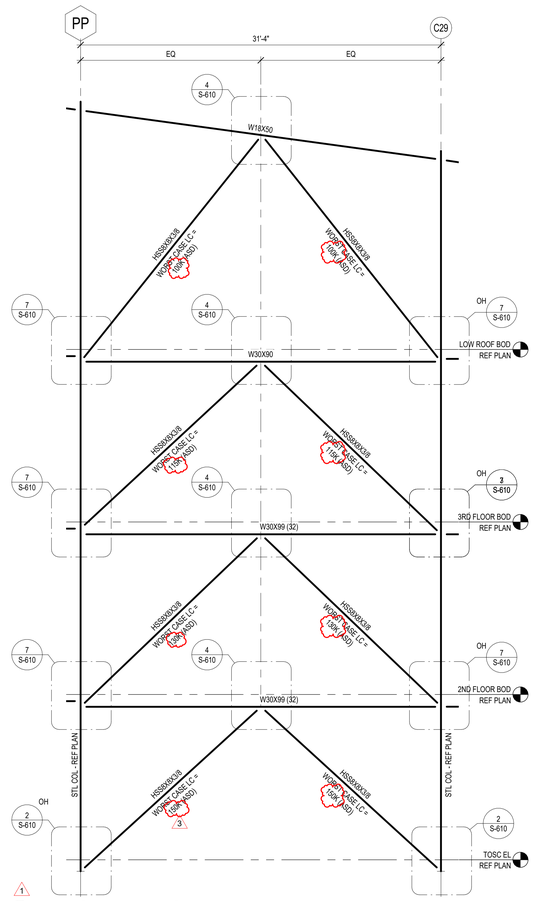
3 BRACE ELEVATION
3/16" = 1'-0"



4 BRACE ELEVATION
3/16" = 1'-0"



5 BRACE ELEVATION
3/16" = 1'-0"



6 BRACE ELEVATION
3/16" = 1'-0"

Plot Stamp:
1/8/2026 2:18:12 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI

DRAWN BY: CML

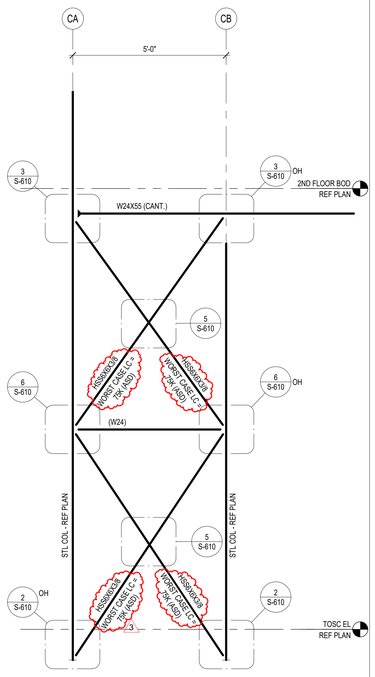
TYPICAL WIND BRACING ELEVATIONS - AREA D

S-604

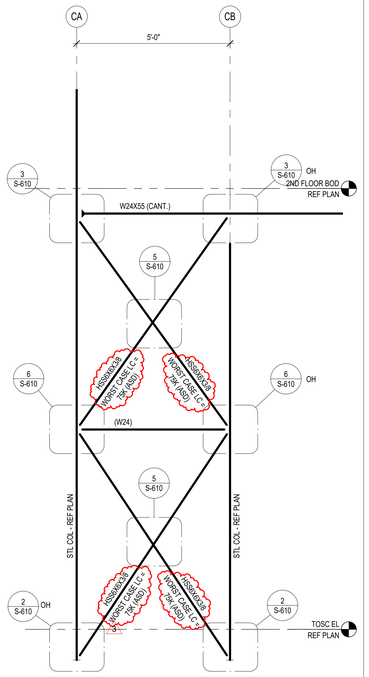
TYPICAL WIND BRACING ELEVATIONS - AREA E

S-605

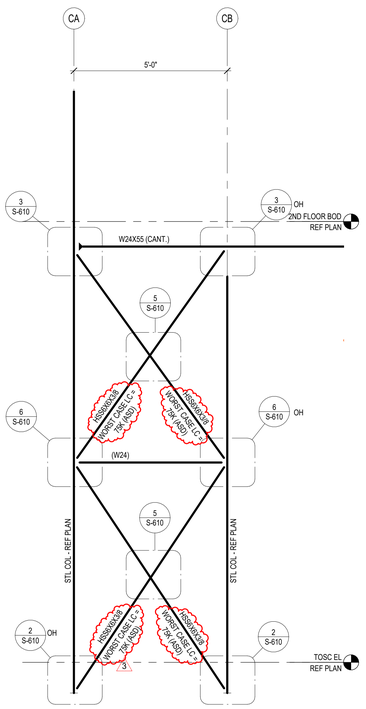
FOR BLUEBEAM LABELING/DOOR:



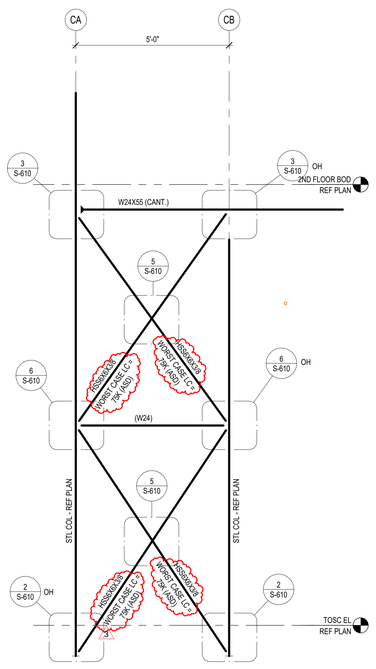
1 BRACE ELEVATION
1/2" = 1'-0"



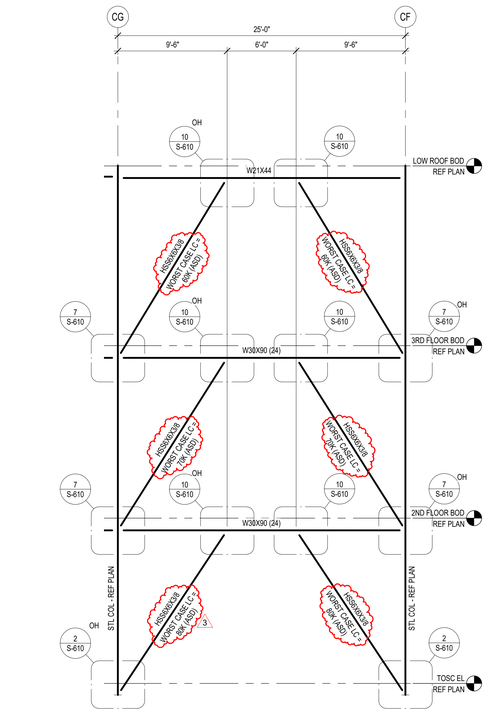
2 BRACE ELEVATION
1/2" = 1'-0"



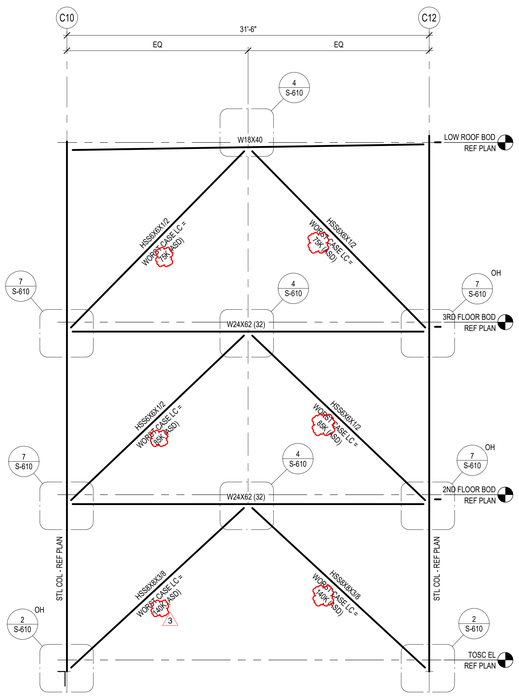
3 BRACE ELEVATION
1/2" = 1'-0"



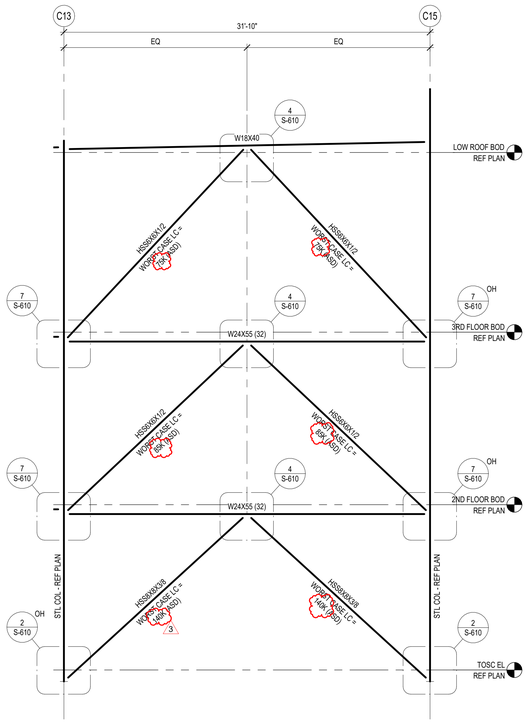
4 BRACE ELEVATION
1/2" = 1'-0"



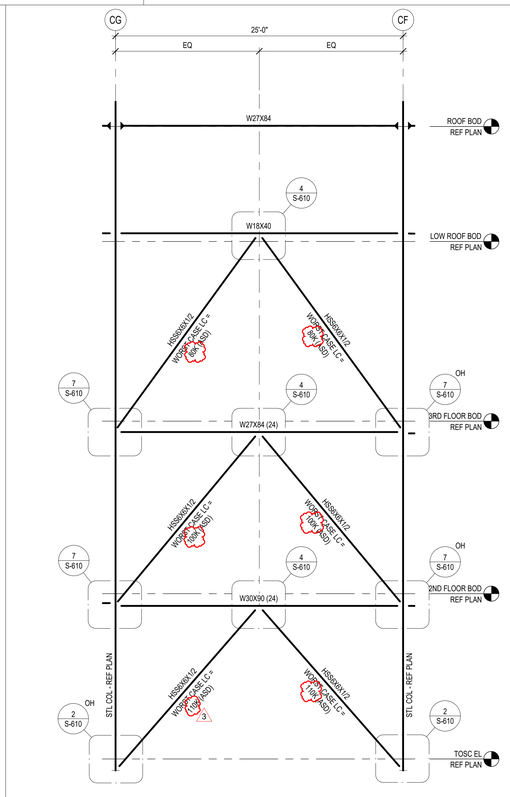
5 BRACE ELEVATION
3/16" = 1'-0"



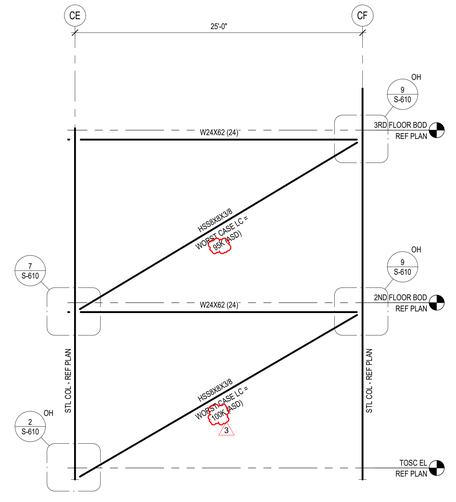
6 BRACE ELEVATION
3/16" = 1'-0"



7 BRACE ELEVATION
3/16" = 1'-0"



8 BRACE ELEVATION
3/16" = 1'-0"



9 BRACE ELEVATION
3/16" = 1'-0"

Plot Stamp:
1/8/2026 2:18:14 PM

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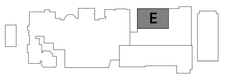
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN = TRUE

12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADDENDUM 05	01/08/2026

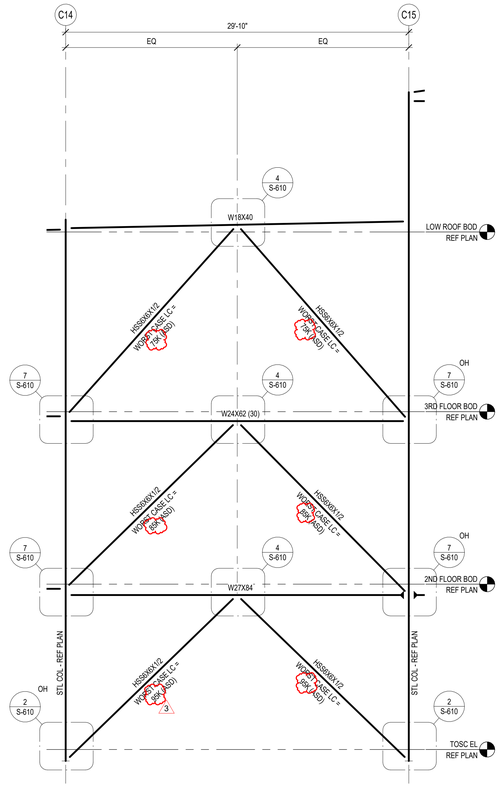
CHECKED BY: SI

DRAWN BY: CML

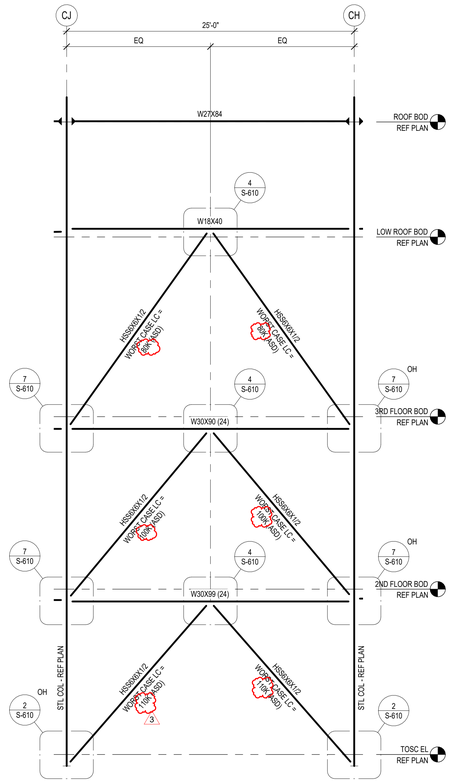
TYPICAL WIND BRACING ELEVATIONS - AREA E

S-605

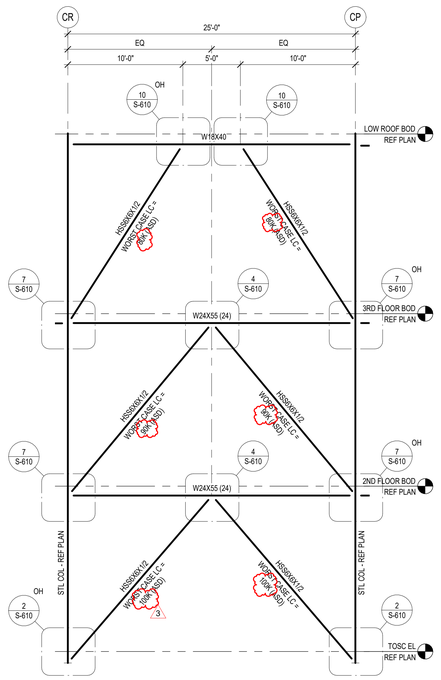
TYPICAL WIND BRACING ELEVATIONS - AREA F
S-606
FOR BLUEBEAM LABELING/DOOR:



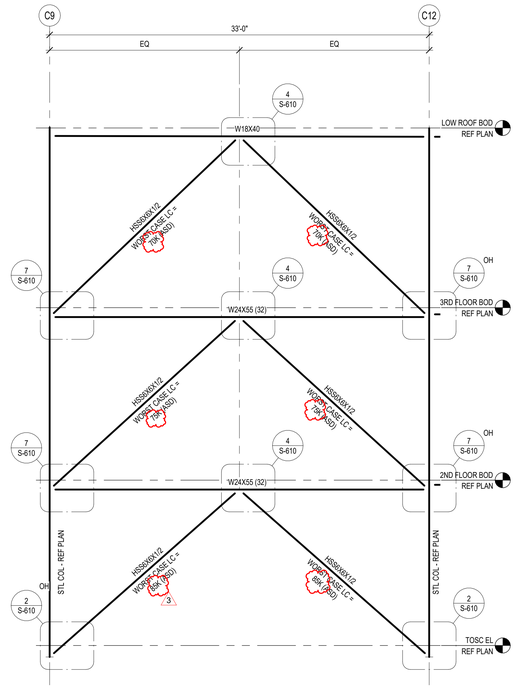
1 BRACE ELEVATION
3/16" = 1'-0"



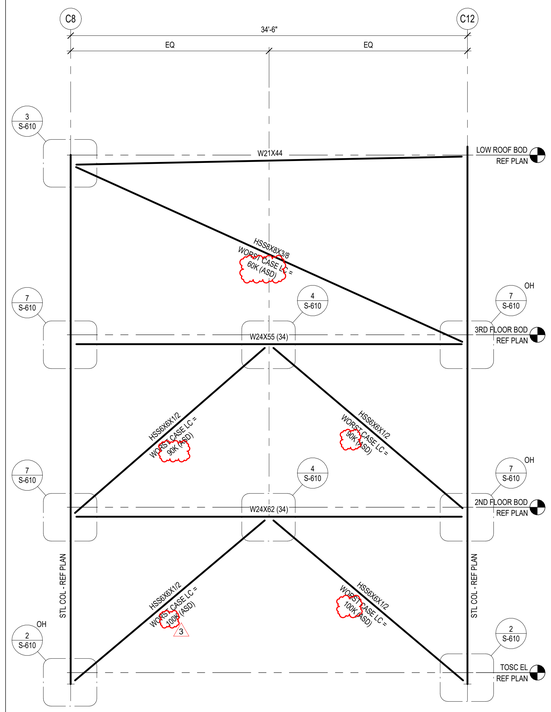
2 BRACE ELEVATION
3/16" = 1'-0"



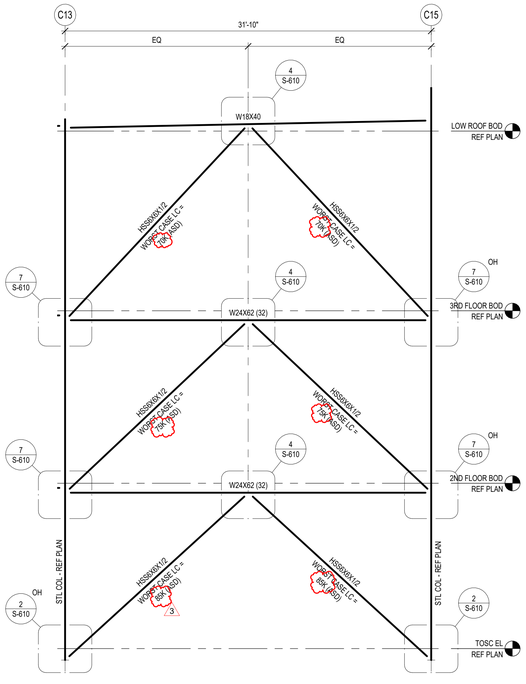
3 BRACE ELEVATION
3/16" = 1'-0"



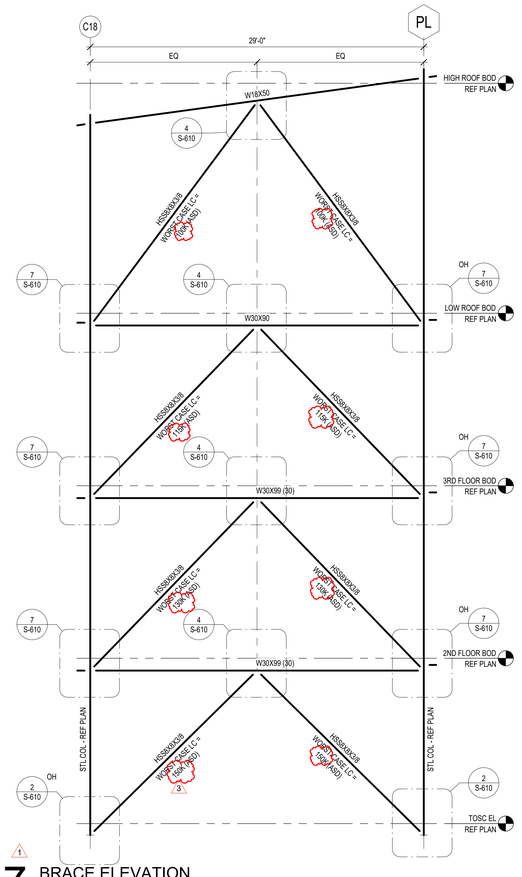
4 BRACE ELEVATION
3/16" = 1'-0"



5 BRACE ELEVATION
3/16" = 1'-0"



6 BRACE ELEVATION
3/16" = 1'-0"



7 BRACE ELEVATION
3/16" = 1'-0"

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
Galena Park, TX 77547
ISSUE FOR PROPOSAL

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713-865-0008
Kubala ENGINEERS
www.kubalaengineers.com
TX: HOU-1 NoT-1 C2012

E

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 01	12/10/2025
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI
DRAWN BY: CML

TYPICAL WIND BRACING ELEVATIONS - AREA F

S-606

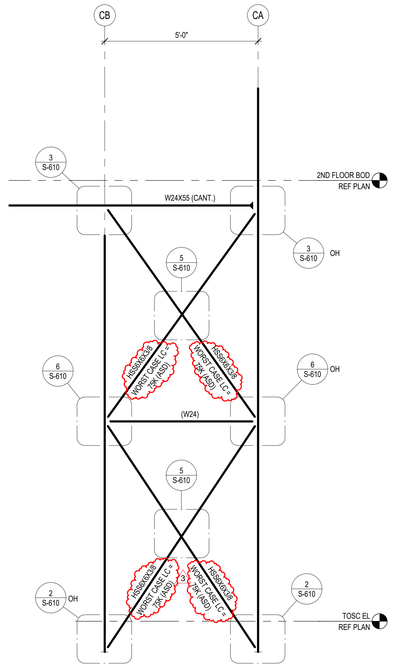
Plot Stamp:
1/8/2026 2:18:17 PM

TYPICAL WIND BRACING ELEVATIONS - AREA G

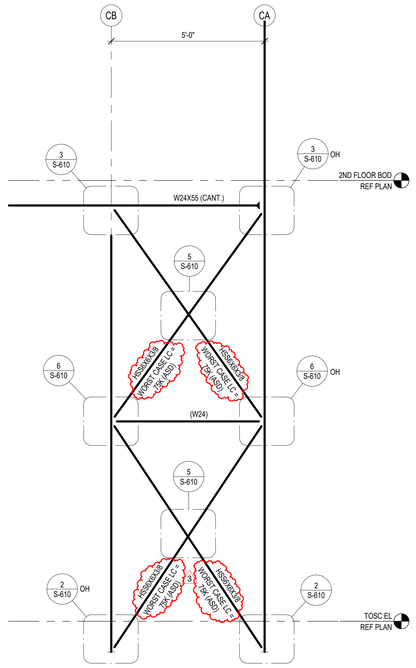
S-607

FOR BLUEBEAM LABELING/DOOR:

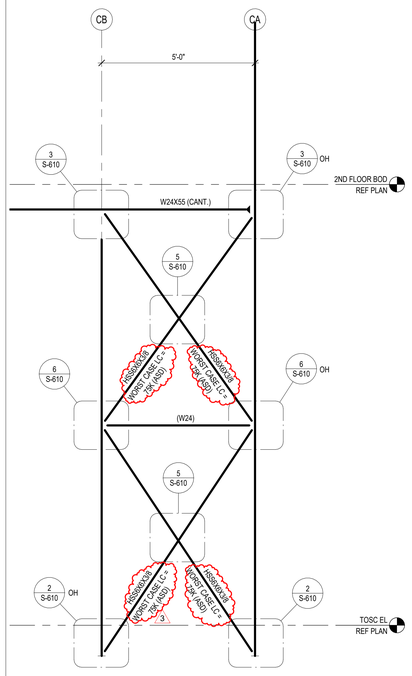
0"
1"



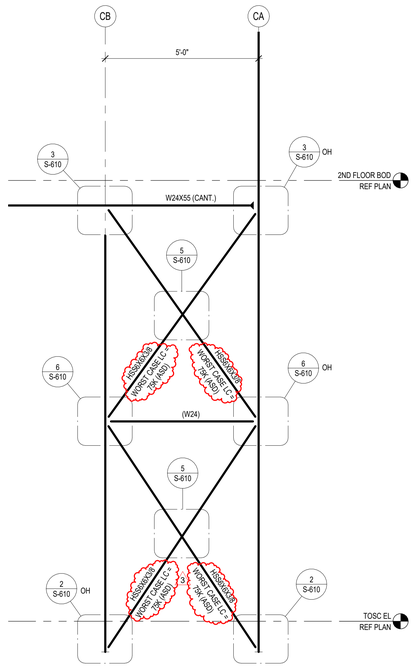
1 BRACE ELEVATION
1/2" = 1'-0"



2 BRACE ELEVATION
1/2" = 1'-0"



3 BRACE ELEVATION
1/2" = 1'-0"



4 BRACE ELEVATION
1/2" = 1'-0"

Plot Stamp:
1/8/2026 2:18:18 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Kubala ENGINEERS
Phone: 832-595-4074
www.kubalaengineers.com
TX. REG. NO. F-23612

Galena Park ISD
EXCELLENCE IN ALL FORMS OF SPORT

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
12/05/2025
Kubala Engineers
F-23612

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADDENDUM 05	01/08/2026

CHECKED BY: SI

DRAWN BY: CML

TYPICAL WIND BRACING ELEVATIONS - AREA G

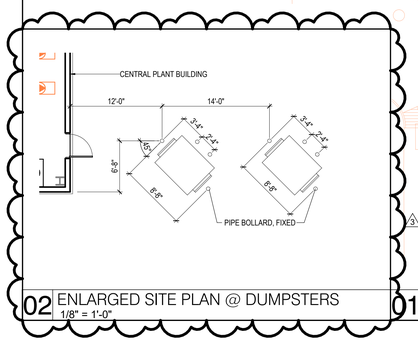
S-607

SITE PLAN - PHASE 3B
AS-111
FOR BLUEBEAM LABELING/DOOR:

0"
1"

KEENE ST

02/AS-402
01/AS-402
01/AS-403
DECORATIVE GATE
RE LANDSCAPE
EXISTING PERFORMING
ARTS CENTER
PROPOSED 3-STORY
ACADEMICS &
MULTIPURPOSE
CHAINLINK GATE
PROPOSED 2-STORY
GYMNASIUM
BUILDING
EXISTING CTE & DINING
COMMONS BUILDING
DECORATIVE GATE
RE LANDSCAPE
NEW
CENTRAL
PLANT
(N.I.C.)
(E) GENERATOR
PLATFORM, RE: MEP
(E) SAND / OIL
INTERCEPTOR &
SAMPLE WELL, RE: MEP
02/AS-111
(E) FIRE LANE
(E) PAD MOUNTED
TRANSFORMER AND
TAP BOX, RE: MEP
NEW LOCATION OF (E) FIRE
PUMP HOUSE, RE: MEP
NEW LOCATIONS OF (E)
STORAGE TANKS, RE: MEP



02 ENLARGED SITE PLAN @ DUMPSTERS
1/8" = 1'-0"

01 SITE PLAN
1" = 20'-0"

Plot Stamp:
1/8/2026 2:32:36 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN = TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
3	ADD 05	2026/01/08

CHECKED BY: Checker
DRAWN BY: Author

SITE PLAN - PHASE 3B

AS-111

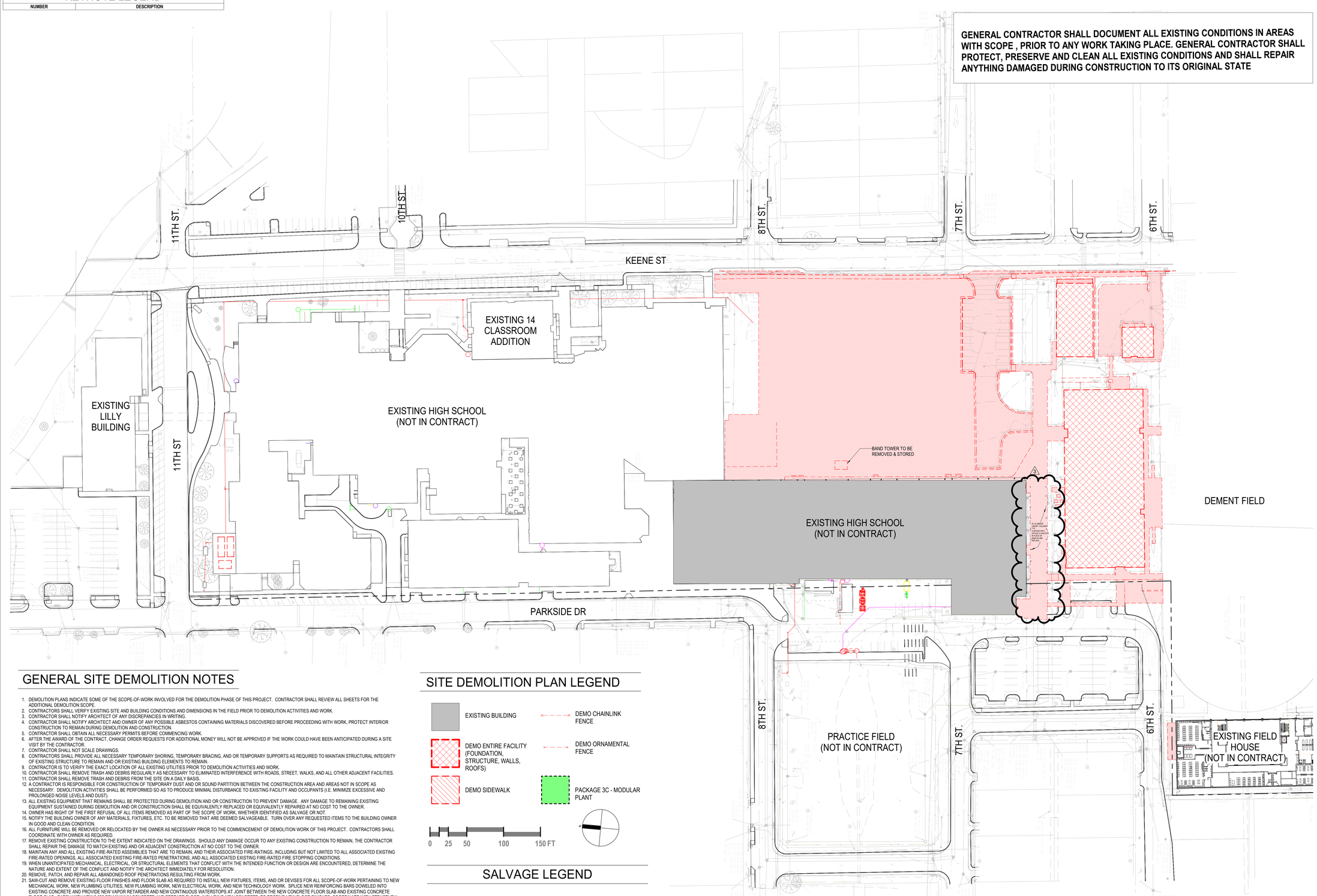
DEMOLITION SITE PLAN
ASD-101
FOR BLUEBEAM LABELING/OCR:

0"
1"

KEYNOTE LEGEND

NUMBER	DESCRIPTION

GENERAL CONTRACTOR SHALL DOCUMENT ALL EXISTING CONDITIONS IN AREAS WITH SCOPE , PRIOR TO ANY WORK TAKING PLACE. GENERAL CONTRACTOR SHALL PROTECT, PRESERVE AND CLEAN ALL EXISTING CONDITIONS AND SHALL REPAIR ANYTHING DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL STATE



GENERAL SITE DEMOLITION NOTES

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR THE ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTORS SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER THE AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTORS SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. A CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN THE CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCTION TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCTION SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
14. OWNER HAS RIGHT OF THE FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
15. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
16. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE COMMENCEMENT OF DEMOLITION WORK OF THIS PROJECT. CONTRACTORS SHALL COORDINATE WITH OWNER AS REQUIRED.
17. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
18. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRE STOPPING CONDITIONS.
19. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
20. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
21. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELED INTO EXISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN THE NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
22. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
23. NEW OPENINGS TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
24. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES; U.N.O.
25. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
26. REFER TO MEPT DRAWINGS FOR THE DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
27. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
28. WHERE THE EXISTING FINISH FLOOR IS REMOVED, PREPARE THE FLOOR SURFACE TO RECEIVE A NEW FLOORING.
29. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.
30. GENERAL CONTRACTOR SHALL DEMO AND DOCUMENT ALL EXISTING CONDITIONS IN AREAS WITH SCOPE. PRIOR TO ANY WORK TAKING PLACE. GENERAL CONTRACTOR SHALL PROTECT, PRESERVE AND CLEAN ALL EXISTING CONDITIONS AND SHALL REPAIR ANYTHING DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL STATE.
31. REPAIRING ANY DAMAGED FIREPROOFING. FIREPROOF RATING TO BE RESTORED TO MATCH EXISTING FIREPROOF RATING. RE: UL RATING SHEET.
32. G.C. TO VERIFY ALL WALLS NOTED AS DEMO WITH STRUCTURAL PLANS AND NOTES PRIOR TO DEMO.
33. G.C. TO COORDINATE DEMO OF WALLS WITH STRUCTURAL DEMO NOTES & REQUIREMENTS.

SITE DEMOLITION PLAN LEGEND

- EXISTING BUILDING
- DEMO ENTIRE FACILITY (FOUNDATION, STRUCTURE, WALLS, ROOFS)
- DEMO SIDEWALK
- DEMO CHAINLINK FENCE
- DEMO ORNAMENTAL FENCE
- PACKAGE 3C - MODULAR PLANT

0 25 50 100 150 FT

SALVAGE LEGEND

1- EXISTING TOILET PARTITIONS
2- EXISTING LED LIGHT FIXTURES INCLUDING EMERGENCY LIGHTING
3- EXISTING SPEAKERS
4- EXISTING LIFE SAFETY ALARM DEVICES INCLUDING PULL STATIONS
5- EXISTING VISUAL AND SOUND DEVICES
6- EXISTING VAPE DETECTORS
7- EXISTING FLOOD MITIGATION GATES AT THE DOORS FACING THE TRACK. HARDWARE.
8- EXISTING BASEBALL NETTING
9- EXISTING EAST SIDE METAL PANELS AND AWNINGS
10- EXISTING COVERED WALKWAY CANOPY INCLUDING LIGHT FIXTURES
11- EXISTING PVC COATED CHAIN LINK FENCE
12- EXISTING SECURITY DEVICES
13- EXISTING HVAC EQUIPMENT AND REFRIGERANT

01 PKG 3B DEMOLITION SITE PLAN
1" = 50'-0"

Plot Stamp:
1/8/2026 3:07:22 PM

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713-366-0608

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAMES LEPICOREY
25572
STATE OF TEXAS

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: Checker
DRAWN BY: Author

DEMOLITION SITE PLAN

ASD-101

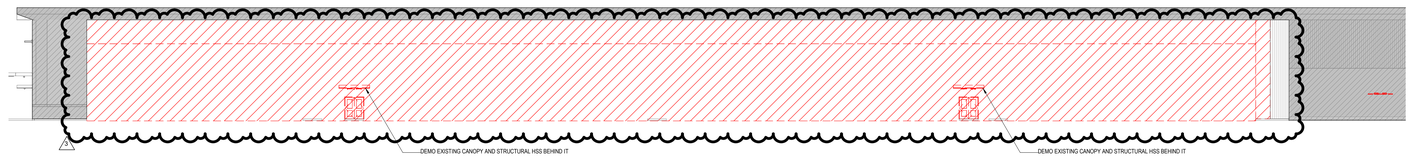
LEVEL 1 - DEMOLITION FLOOR PLAN

AD101

FOR BLUEBEAM LABELING/OCR:

0"

1"



2 DEMO ELEVATION
1" = 20'-0"

1 LEVEL 1 - OVERALL DEMOLITION FLOOR PLAN
1" = 20'-0"

GENERAL ARCH DEMOLITION NOTES

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
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18. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRE STOPPING CONDITIONS.
19. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
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21. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELED INTO EXISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
22. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
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24. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, U.N.O.
25. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
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27. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
28. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
29. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

DEMOLITION PLAN LEGEND

EXISTING BUILDING

DEMO DOOR

DEMO EXTERIOR WALL

DEMO WALL

PBK

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713.366.0808

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN

NORTH: PLAN TRUE

LICENSED REGISTERED ARCHITECT
JOHN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/09/01

CHECKED BY: Checker

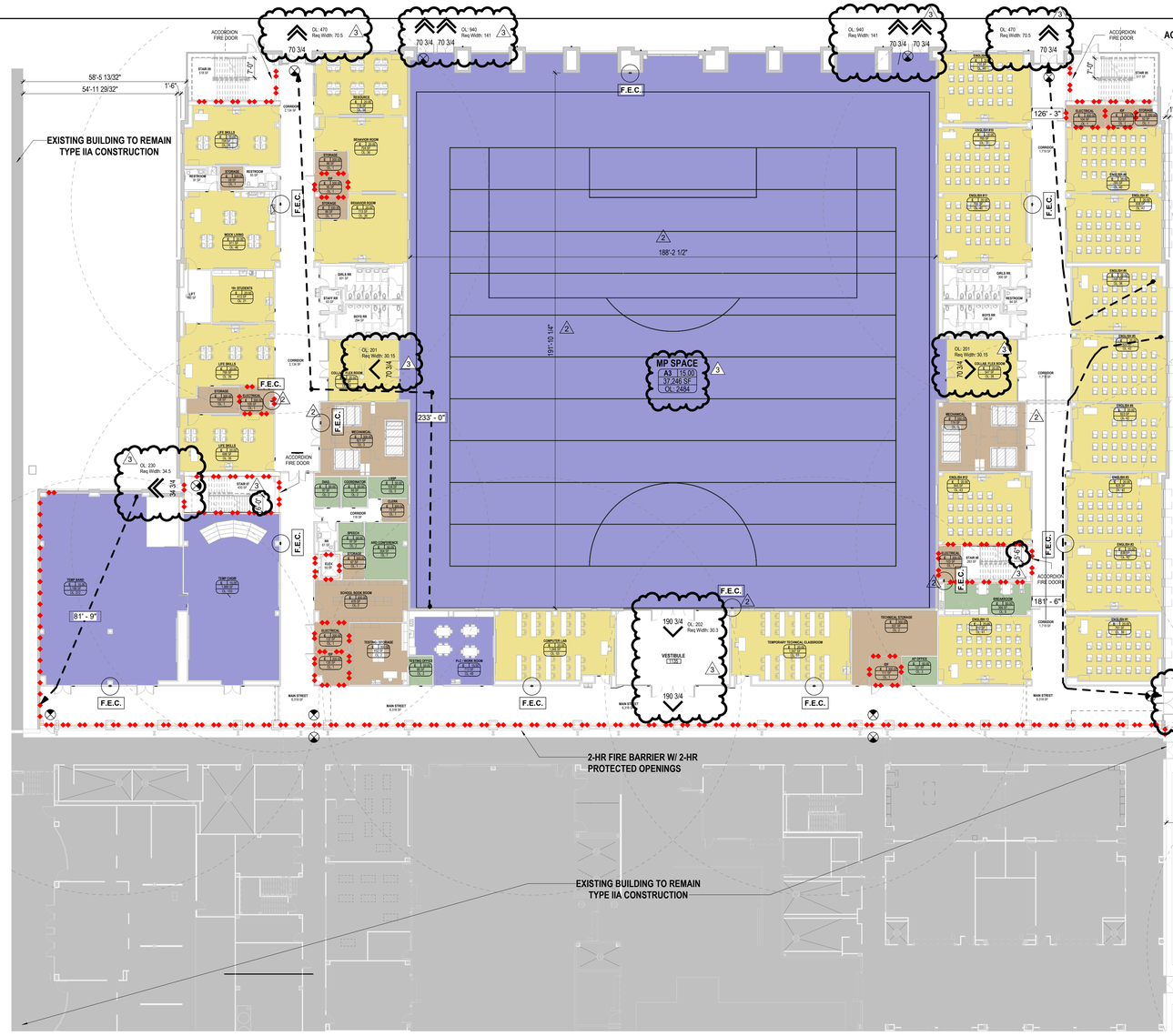
DRAWN BY: Author

LEVEL 1 - DEMOLITION FLOOR PLAN

AD101

Plot Stamp:
1/8/2026 2:58:44 PM

1ST FLOOR - CODE REVIEW
G-101
FOR BLUEBEAM LABELING/OCR:



FIRE-RATED ASSEMBLIES

ROOF ASSEMBLY	UL P921
FLOOR ASSEMBLY	UL D780
WIDE FLANGE STEEL COLUMNS	UL X772
TUBE STEEL COLUMNS	UL X771
STUD FRAMED WALL	UL U465
STUD FRAMED SHAFTWALL	UL U415
CMU WALL	UL U905

1. UL ASSEMBLIES INDICATED ESTABLISH A BASIS OF PERFORMANCE. OTHER ASSEMBLIES MAY BE CONSIDERED AT THE DISCRETION OF THE ARCH. IF EQUIVALENT PERFORMANCE IS PROVIDED. SUBSTITUTION PROPOSALS SHALL INCLUDE CHANGES REQUIRED TO ALL COMPONENTS OF THE ASSEMBLY.

2. PROTECT ALL CONDUIT, PIPES, DUCTS, AND MISC. PENETRATIONS THROUGH FIRE-RATED WALLS, FLOOR, AND OR ROOF ASSEMBLIES WITH FIRE SAFING INSULATION AND FIRE STOP SEALANT. REFER TO GUIDELINES FOR APPROPRIATE ASSEMBLIES.

3. PROVIDE DAMPERS AND OR LIGHT FIXTURE PROTECTION AS REQUIRED BY UL ASSEMBLIES.

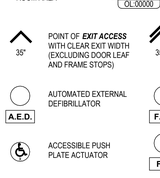
4. PROVIDE SPRAY-ON FIREPROOFING PROTECTION FOR STRUCTURAL MEMBERS CROSSING FROM A FIRE-RATED ROOF ASSEMBLY AND OR A FIRE-RATED FLOOR ASSEMBLY INTO OTHER AREAS WITH ANY OTHER FIRE-RATED ASSEMBLY OR NO FIRE-RATED ASSEMBLY, FOR THEIR FULL LENGTH.

5. PERMANENTLY MARK ALL WALLS ABOVE CEILINGS AS FOLLOWS:
"FIRE-RATED WALL - PROTECT ALL OPENINGS"
LETTERS SHALL BE RED IN COLOR AND A MINIMUM OF 2 1/2 INCHES IN HEIGHT. PROVIDE A MINIMUM OF ONE MARKING PER STRUCTURAL BAY.

6. PERMANENTLY MARK SMOKE PARTITIONS ABOVE CEILINGS AS FOLLOWS:
"SMOKE PARTITION - PROTECT ALL OPENINGS"
LETTERS SHALL BE RED IN COLOR AND A MINIMUM OF 2 1/2 INCHES IN HEIGHT. PROVIDE A MINIMUM OF ONE MARKING PER STRUCTURAL BAY.

FIRE-RATED FLOOR AND CEILING LEGEND

- 2 HOUR RATED UL FLOOR/ CEILING ASSEMBLY
- 1 HOUR RATED UL FLOOR/ CEILING ASSEMBLY
- NOT RATED STRUCTURE HIGHER THAN 20' A.F.F.
- FIRE EXTINGUISHER AND MOUNTING BRACKETS TO BE INSTALLED ACCORDING TO NFPA REGULATIONS



CODE ANALYSIS SYMBOLS

- 1-HOUR FIRE RATING
- 2-HOUR FIRE RATING
- 3-HOUR FIRE RATING
- 0-HOUR SMOKE RATING
- 1-HOUR SMOKE RATING
- EGRESS TRAVEL PATH
- EGRESS COMMON PATH OF TRAVEL
- LS-1 — TRAVEL DISTANCE NAME
- 150' - 0" — TRAVEL DISTANCE LENGTH
- EXIT SIGN
- Area Name / A-3 100.0 / 150 SF / OL 00000 — OCCUPANCY TYPE, ROOM AREA, FUNCTION OF SPACE, LOAD FACTOR, OCCUPANT LOAD FOR ROOM (NET FUNCTIONS ONLY)
- 35" — POINT OF ***EXIT ACCESS*** WITH CLEAR EXIT WIDTH (EXCLUDING DOOR LEAF AND FRAME STOPS)
- 35" — POINT OF ***EXIT DISCHARGE*** WITH CLEAR EXIT WIDTH (EXCLUDING DOOR LEAF AND FRAME STOPS)
- A.E.D. — AUTOMATED EXTERNAL DEFIBRILLATOR
- F.E.C. — FIRE EXTINGUISHER CABINET
- ACCESSIBLE PUSH PLATE ACTUATOR
- F.E. — FIRE EXTINGUISHER
- FH — PROPOSED FIRE HYDRANT
- FIRE HOSE COVERAGE

NOTES: PROVIDE (1) WALL MOUNTED FIRE EXTINGUISHER AT EACH IDF, ELECTRICAL, AND MECHANICAL ROOM ON ALL LEVELS.

OCCUPANCY LOAD FACTOR LEGEND

- (none)
- IBC Accessory storage areas, mechanical rooms
- IBC Assembly w fixed seats (1004.1.2)
- IBC Assembly w/o fixed seats - Concentrated - Standing Space (Net)
- IBC Assembly w/o fixed seats - Unconcentrated - tables and chairs(Net)
- IBC Business areas (1004.8)
- IBC Educational - Classroom area (Net)
- IBC Exercise rooms
- IBC Institutional areas - Outpatient areas
- IBC Locker rooms
- IBC Mercantile

1 PKG 3B - LEVEL 1 - Code Review
1" = 20'-0"

PROJECT GENERAL INFORMATION

NAME OF PROJECT:	NEW GYM, CLASSROOM, AND MULTI-PURPOSE FACILITY
BUILDING / FACILITY NAME:	GALENA PARK HIGH SCHOOL
LOCATION (ADDRESS):	1000 KEENE STREET
STATE, ZIP CODE:	GALENA PARK, TEXAS 77547
DESCRIPTION OF PROJECT:	THREE-STORY CLASSROOM WING AND MULTI-PURPOSE FACILITY AND AN INDEPENDENT TWO-STORY ATHLETICS BUILDING
AUTHORITY HAVING JURISDICTION:	CITY OF GALENA PARK
APPLICABLE BUILDING CODE:	2009 INTERNATIONAL BUILDING CODE
	2009 INTERNATIONAL FIRE CODE
	2009 UNIFORM MECHANICAL CODE
	2009 UNIFORM PLUMBING CODE
	2011 NATIONAL ELECTRICAL CODE
APPLICABLE ENERGY CODE:	2009 INTERNATIONAL ENERGY EFFICIENCY CODE
ACCESSIBILITY:	2012 TEXAS ACCESSIBILITY STANDARDS
CONSTRUCTION TYPE:	CLASSROOM & MULTI-PURPOSE FACILITY: IB ATHLETICS BUILDING: IIA
OCCUPANCY CLASSIFICATION:	GROUP E, EDUCATIONAL
OVERALL USE OF BUILDING:	HIGH SCHOOL
HIGH RISE BUILDING:	NO
AUTOMATIC FIRE SPRINKLER SYSTEM:	YES, NFPA 13
STANDPIPE SYSTEM:	YES
MINIMUM CORRIDOR WIDTH (RE. IBC):	60"
GROSS BUILDING SQ FT:	275,776 SQ FT.
TEA OCCUPANT LOAD:	0 OCCUPANTS

MULTI PURPOSE OCCUPANCY AND EGRESS

	Number of Occupants	Exits		Egress Door Width (in.)		Egress Stair Width (in.)	
		Single Exit Maximum Occupant Load: 49		Means of Egress Capacity Factor: 0.2 in.		Stairway Means of Egress Capacity Factor: 0.3in.	
		Required	Provided	Required	Provided	Required	Provided
First Floor	2272	4	0	455"	0"	682"	0"
Second Floor	1732	4	0	347"	0"	520"	0"
Third Floor	1312	4	0	263"	0"	394"	0"
Fourth Floor	0	1	0	0"	0"	0"	0"

MULTI PURPOSE PLUMBING / FIXTURE COUNTS

		Water Closets + Urinals		Lavatories		Drinking Fountains		Bathtubs/Showers		Service Sinks	
Occupancy Type:E	Occupants	Required	Provided	Required	Provided	Required	Provided	Required	Provided	Required	Provided
Total Occupants:	5,316	-	-	-	-	54	0	-	0	1	0
Total Female Occupants:	2,658	55	0	35	0	-	-	-	-	-	-
Total Male Occupants:	2,658	55	0	35	0	-	-	-	-	-	-
Unisex Assisted Use:	-	0	0	0	0	-	-	-	-	-	-

MULTI PURPOSE ALLOWABLE BUILDING HEIGHTS AND AREAS (FROM TABLE 503)

	1st Occupancy Info	Provided
OCCUPANCY CLASSIFICATION	E	-
ALLOWABLE HEIGHT IN FEET	85'	75'
ALLOWABLE HEIGHT STORIES	4	0
NON-SPRINKLERED ALLOWABLE AREA (SF)	0	-
TABULAR ALLOWABLE AREA (SF)	0	-
FRONTAGE INCREASE (.XX)	0	-
TOTAL ALLOWABLE AREA PER STORY (SF)	0	0
MAXIMUM COMMON PATH (WITH OR WITHOUT SPRINKLER)	0"	0"
MAXIMUM EXIT ACCESS TRAVEL DISTANCE (WITH SPRINKLER)	0"	0"
CORRIDOR FIRE RESISTANCE RATING	0hr.	0hr.

ATHLETIC BUIDLING OCCUPANCY AND EGRESS

	Number of Occupants	Exits		Egress Door Width (in.)		Egress Stair Width (in.)	
		Single Exit Maximum Occupant Load: 49		Means of Egress Capacity Factor: 0.2 in.		Stairway Means of Egress Capacity Factor: 0.3in.	
		Required	Provided	Required	Provided	Required	Provided
First Floor	2272	4	0	455"	0"	682"	0"
Second Floor	1732	4	0	347"	0"	520"	0"
Third Floor	1312	4	0	263"	0"	394"	0"
Fourth Floor	0	1	0	0"	0"	0"	0"

ATHLETIC BUILDING PLUMBING / FIXTURE COUNTS

		Water Closets + Urinals		Lavatories		Drinking Fountains		Bathtubs/Showers		Service Sinks	
Occupancy Type:E	Occupants	Required	Provided	Required	Provided	Required	Provided	Required	Provided	Required	Provided
Total Occupants:	5,316	-	-	-	-	54	0	-	0	1	0
Total Female Occupants:	2,658	55	0	35	0	-	-	-	-	-	-
Total Male Occupants:	2,658	55	0	35	0	-	-	-	-	-	-
Unisex Assisted Use:	-	0	0	0	0	-	-	-	-	-	-

ATHLETIC BUILDING ALLOWABLE BUILDING HEIGHTS AND AREAS (FROM TABLE 503)

	1st Occupancy Info	Provided
OCCUPANCY CLASSIFICATION	E	-
ALLOWABLE HEIGHT IN FEET	180'	0'
ALLOWABLE HEIGHT STORIES	6	0
NON-SPRINKLERED ALLOWABLE AREA (SF)	0	-
TABULAR ALLOWABLE AREA (SF)	0	-
FRONTAGE INCREASE (.XX)	0	-
TOTAL ALLOWABLE AREA PER STORY (SF)	0	0
MAXIMUM COMMON PATH (WITH OR WITHOUT SPRINKLER)	0"	0"
MAXIMUM EXIT ACCESS TRAVEL DISTANCE (WITH SPRINKLER)	0"	0"
CORRIDOR FIRE RESISTANCE RATING	0hr.	0hr.

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)

BUILDING ELEMENTS:	TYPE IIA	TYPE IB
PRIMARY STRUCTURAL FRAME	2[a,b]	2[a,b]
EXTERIOR BEARING WALLS	1	2
INTERIOR BEARING WALLS	1	2[a]
INTERIOR NON BEARING WALLS AND PARTITIONS	0	0
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	1	2
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	1[b,c]	1[b,c]
EXTERIOR NON BEARING WALLS AND PARTITIONS (FIRE SEPARATION DISTANCE < 5'-)	1	1
EXTERIOR NON BEARING WALLS AND PARTITIONS (5 ≤ X < 10)	1	1
EXTERIOR NON BEARING WALLS AND PARTITIONS (10 ≤ X < 30)	1[d]	1[d]
EXTERIOR NON BEARING WALLS AND PARTITIONS (X ≥ 30)	0	0

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
BUILDING A NEW FOUNDATION

KEY PLAN
NORTH: PLAN ≈ TRUE

REGISTERED ARCHITECT
STATE OF TEXAS
JOHN LEPICOVSKY
25572

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

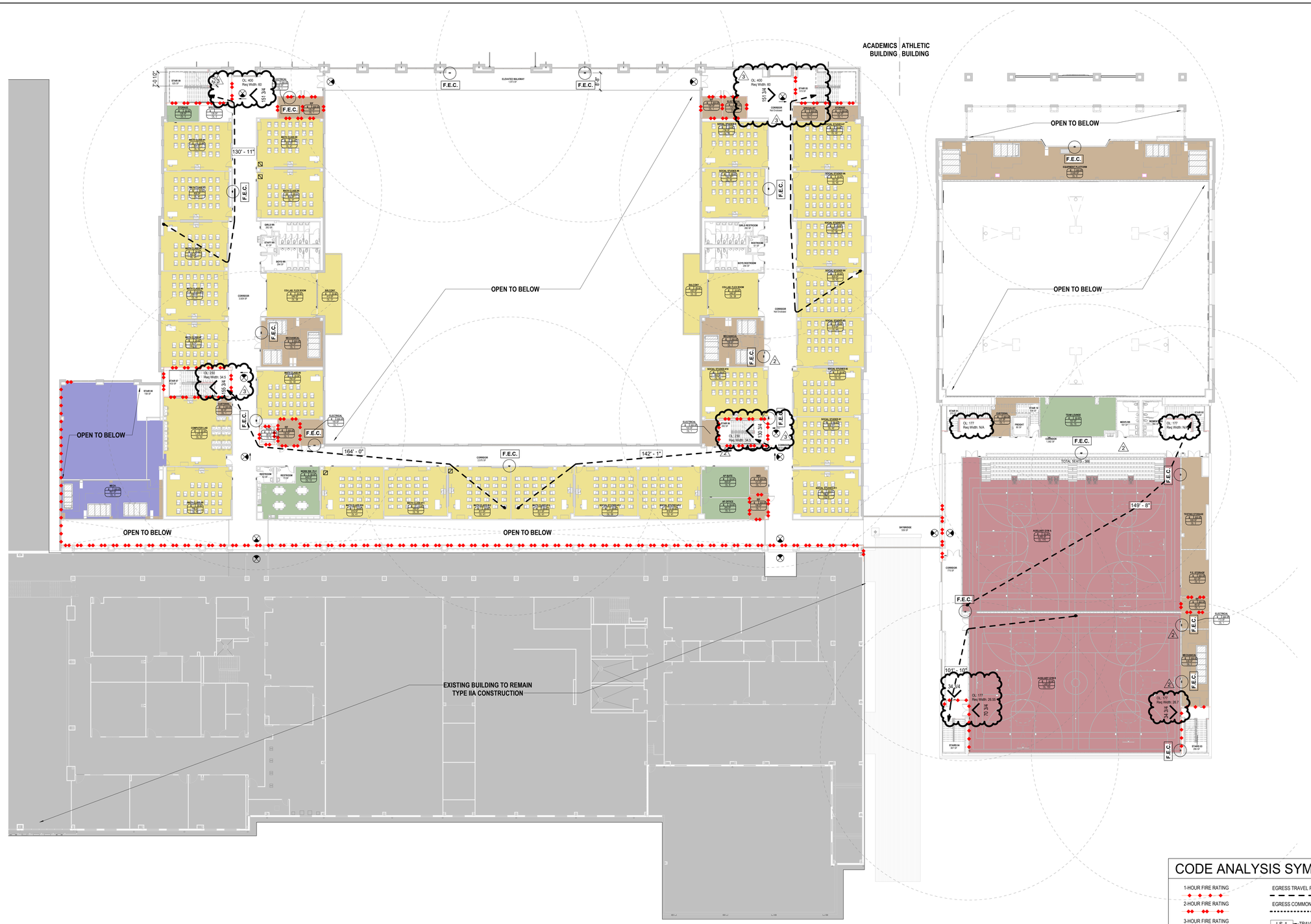
CHECKED BY: Checker
DRAWN BY: IE

1ST FLOOR - CODE REVIEW

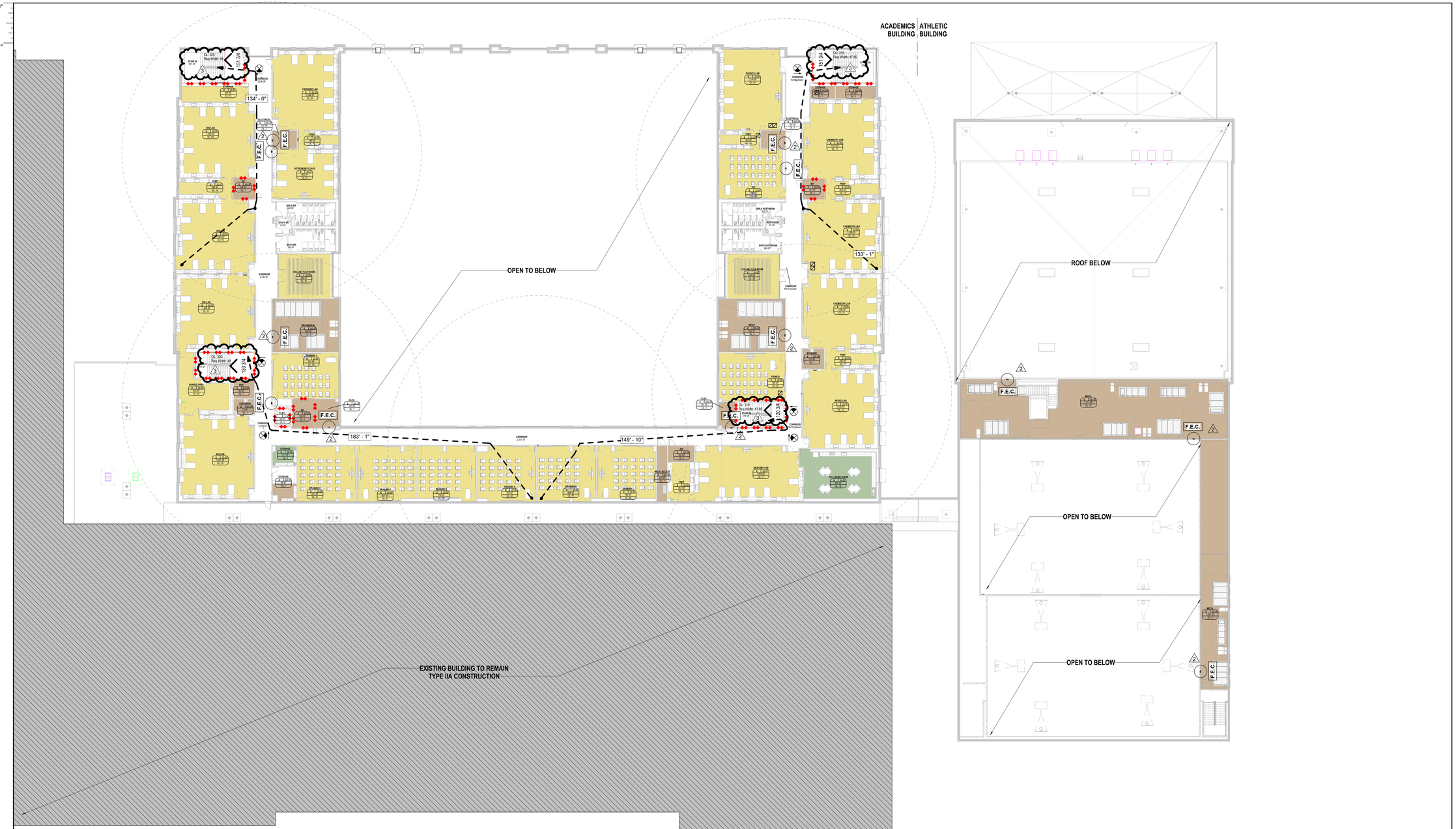
G-101

0"
1"

2ND FLOOR - CODE REVIEW
G-102
FOR BLUEBEAM LABELING/DOOR:



3RD FLOOR - CODE REVIEW
G-103
FOR BLUEBEAM LABELING/OCR:



OCCUPANCY LOAD FACTOR LEGEND

- (none)
- IBC Accessory storage areas, mechanical rooms
- IBC Business areas (1004.8)
- IBC Educational - Classroom area (Net)

NOTES: PROVIDE (1) WALL MOUNTED FIRE EXTINGUISHER AT EACH IDF, ELECTRICAL, AND MECHANICAL ROOM ON ALL LEVELS.

CODE ANALYSIS SYMBOLS

- 1-HOUR FIRE RATING
- 2-HOUR FIRE RATING
- 3-HOUR FIRE RATING
- 0-HOUR SMOKE RATING
- 1-HOUR SMOKE RATING
- EGRESS TRAVEL PATH
- EGRESS COMMON PATH OF TRAVEL
- LS-1 — TRAVEL DISTANCE NAME
- 150' - 0" — TRAVEL DISTANCE LENGTH
- EXIT SIGN
- OCCUPANCY TYPE — Area Name — FUNCTION OF SPACE
- ROOM AREA — A-3 100.0 — LOAD FACTOR
- 150 SF — OCCUPANT LOAD FOR ROOM (NET FUNCTIONS ONLY)
- OL 00000
- 35" POINT OF *EXIT ACCESS* WITH CLEAR EXIT WIDTH (EXCLUDING DOOR LEAF AND FRAME STOPS)
- 35" POINT OF *EXIT DISCHARGE* WITH CLEAR EXIT WIDTH (EXCLUDING DOOR LEAF AND FRAME STOPS)
- A.E.D. AUTOMATED EXTERNAL DEFIBRILLATOR
- F.E.C. FIRE EXTINGUISHER CABINET
- ACCESSIBLE PUSH PLATE ACTUATOR
- F.E. FIRE EXTINGUISHER
- FH PROPOSED FIRE HYDRANT
- FIRE HOSE COVERAGE

1 LEVEL 3 - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN
1" = 20'-0"

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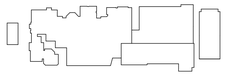
Galena Park, TX 77547

ISSUE FOR PROPOSAL



KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT JAN LEPICOVSKY 25572 STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE December 5, 2025	PROJECT NUMBER 240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: IE

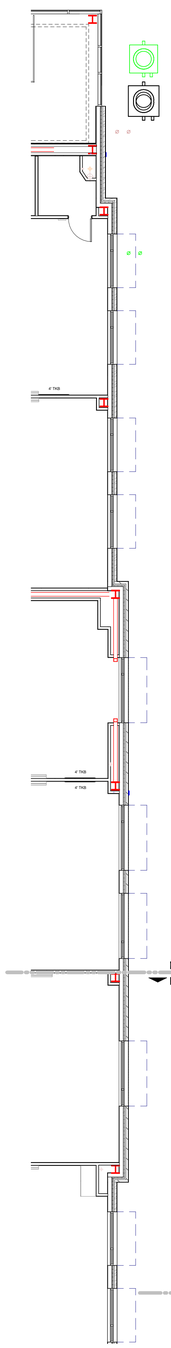
3RD FLOOR - CODE REVIEW

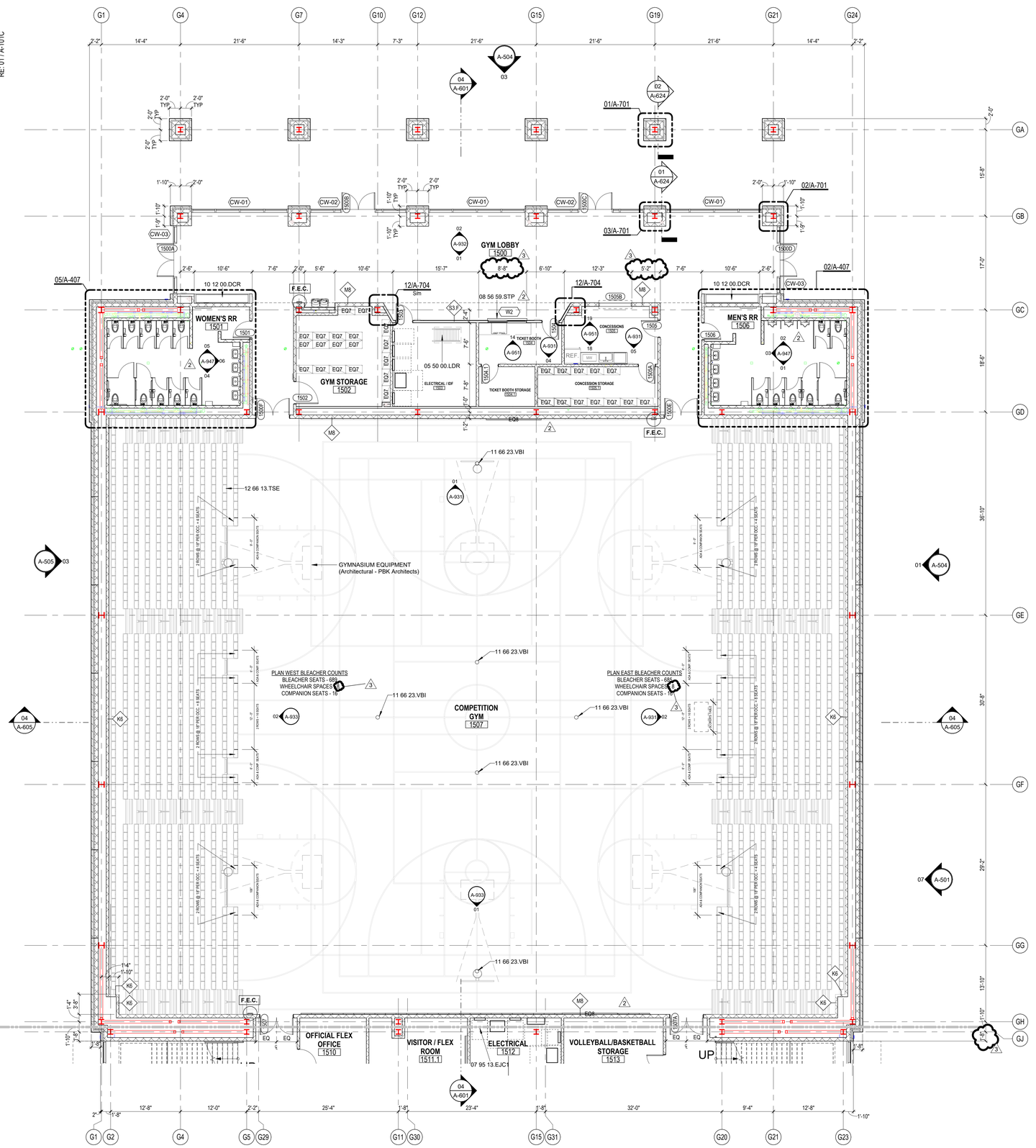
G-103

Plot Stamp:
1/8/2026 1:36:30 PM

LEVEL 1 - AREA A FLOOR PLAN
A-101A
FOR BLUEBEAM LABELING/OCR:

0"
1"





01 LEVEL 1 - AREA A NEW GYM FLOOR PLAN
1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE.
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE M6 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE M4 U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.
23. REFER TO STRUC FOR SLAB DEPRESSION

KEYNOTE LEGEND

NUMBER	DESCRIPTION
05 50 00.LDR	STEEL LADDER
07 95 13.EJC1	INTERIOR, FLOOR, THERMAL-MOVEMENT JOINT COVER
08 56 59.STP	SERVICE/TELLER WINDOW UNIT W/ PASS-THROUGH DEVICE
10 12 00.DCR	RECESSED DISPLAY CASE
11 66 23	GYMNASIUM EQUIPMENT (Architectural - PBK Architects)
11 66 23.VBI	VOLLEYBALL FLOOR INSERT
12 66 13.TSE	TELESCOPING BLEACHER, ELECTRICALLY-OPERATED

EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	MANUF	MODEL No.	REMARKS	Count
EQ7	Metal Shelving - 6 Shelves - 36" W x 18" D x 5'-5" H	-	Solid steel	CFCI	31
EQ8	Competition Gym Scoreboard	Nevco	2772-RL-W	OFCI	2

2

FLOOR PLAN LEGEND

- **10 65 13.4PSSM** METAL SHELVING, 72" H — SHELF LENGTH / SHELF WIDTH
- **10 11 00.MBP** PORCELAIN-ENAMEL MARKERBOARD — LENGTH
- **10 11 00.TKB** TACKBOARD — LENGTH
- CR — CARD READER, REFER TO TECHNOLOGY
- OP — LV AUTOMATIC OPERATOR, REFER TO TECHNOLOGY
- **F.E.C.** **10 44 00.FE#** FIRE EXTINGUISHER CABINET
- **A.E.D.** **10 43 00.AED** AUTOMATED EXTERNAL DEFIBRILLATOR
- **10 51 26.LBC** LOCKER ROOM BENCH 18" X 48"
- **10 51 26.LBA** ADA BENCH LEFT CLEAENCE 42" X 20"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

A

KEY PLAN
NORTH: PLAN = TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

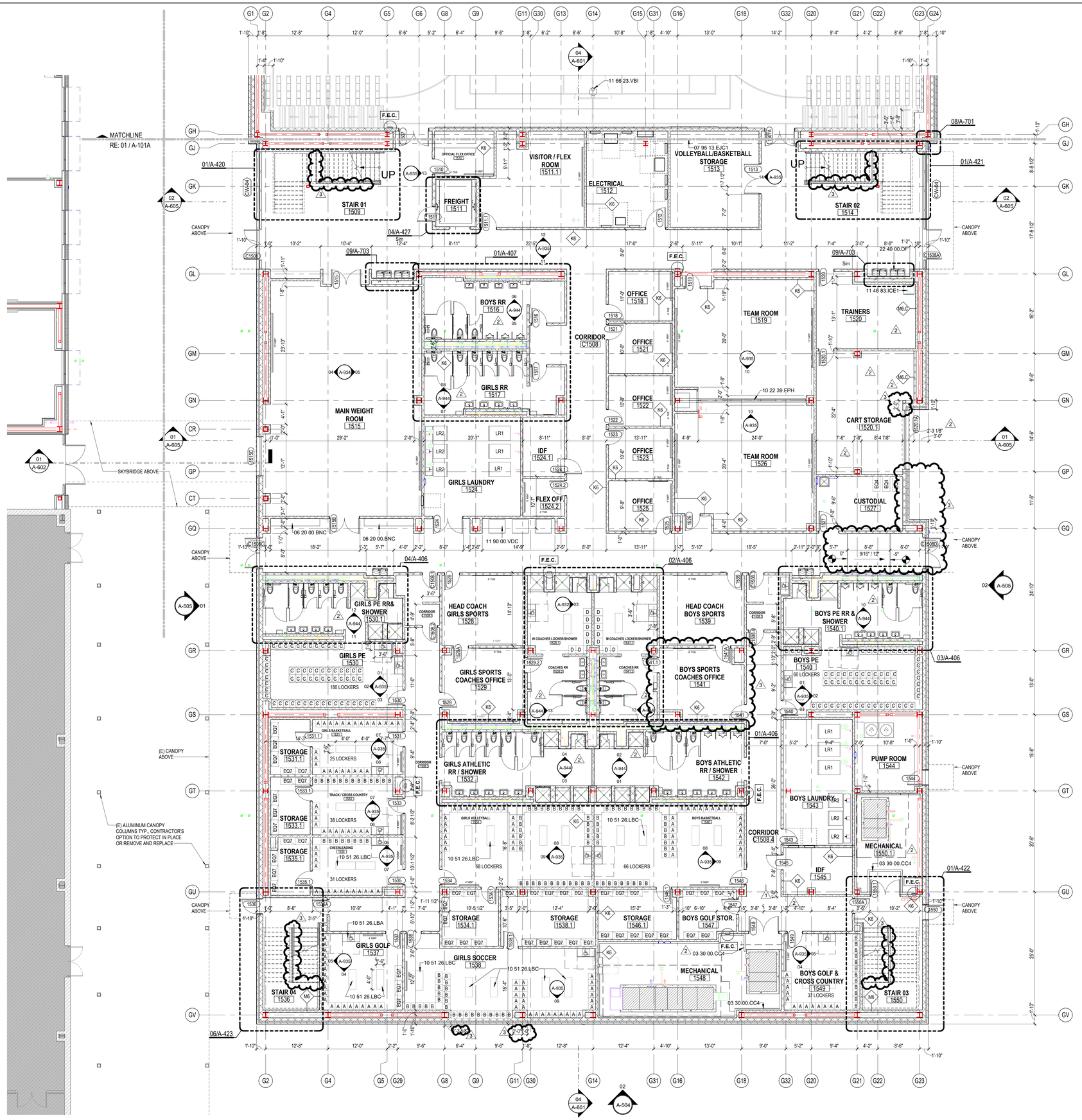
CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA A FLOOR PLAN

A-101A

Plot Stamp:
1/8/2026 1:36:40 PM

LEVEL 1 - AREA B FLOOR PLAN
A-101B
FOR BLUEBEAM LABELING/DOOR:



01 LEVEL 1 - AREA B NEW GYM FLOOR PLAN
1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
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3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-600 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE M6 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE M4 U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.
23. REFER TO STRUC FOR SLAB DEPRESSION

KEYNOTE LEGEND

NUMBER	DESCRIPTION
03 30 00.CC4	CAST-IN-PLACE CONCRETE CURB 4" X 4"
06 20 00.BNC	CUSTOM BENCH
07 95 13.EJC1	INTERIOR, FLOOR, THERMAL-MOVEMENT JOINT COVER
10 22 39.FPH	HORIZONTAL-OPENING FOLDING PANEL PARTITION
10 51 26.LBA	LOCKER BENCH, ACCESSIBLE, 20"D X 42"W
10 51 26.LBC	LOCKER BENCH, 18"D X 48"W
11 46 83.ICE1	ICE MACHINE
11 66 23.VBI	VOLLEYBALL FLOOR INSERT
11 90 00.VDC	COMBINATION VENDING MACHINE (OFOI)
22 40 00.DF	

EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	MANUF	MODEL No.	REMARKS	Count
EQ4	Metal Shelving - 5 Shelves - 36" W x 18" D x 7'-2" H	-	Solid steel	CFCI	3
EQ7	Metal Shelving - 6 Shelves - 36" W x 18" D x 6'-5" H	-	Solid steel	CFCI	48
EQ8	Competition Gym Scoreboard	Nevco	2772-RL-W	OFCI	1
LR1	Gas Dryer - 55 lbs Capacity	HUEBSCH	HT075NMB1G1W03	CFCI	6
LR2	Front Load Washer - 40 lbs Capacity	CONTINENTAL	L105OSR21010	CFCI	6

LOCKER SCHEDULE

Type Mark	Description	Count
A	ATHLETICS LOCKER - SINGLE TIER, PAD LOCK - 15" W x 18" D x 6'-0" H	154
B	ATHLETICS LOCKER - DOUBLE TIERS, PAD LOCK - 15" W x 18" D x 6'-0" H	121
C	ATHLETICS LOCKER - TRIPLE TIERS, PAD LOCK - 15" W x 18" D x 6'-5" H	120
D	ATHLETICS LOCKER - COACH - 18" W x 21" D x 6'-0" H	14

FLOOR PLAN LEGEND

- **10 65 13.4PSSM** METAL SHELVING, 72" H — SHELF LENGTH, SHELF WIDTH
- **10 11 00.MBP** PORCELAIN-ENAMEL MARKERBOARD — LENGTH
- **10 11 00.TKB** TACKBOARD — LENGTH
- CR — CARD READER, REFER TO TECHNOLOGY
- OP — LV AUTOMATIC OPERATOR, REFER TO TECHNOLOGY
- F.E.C. — **10 44 00.FE#** FIRE EXTINGUISHER CABINET
- A.E.D. — **10 43 00.AED** AUTOMATED EXTERNAL DEFIBRILLATOR
- **10 51 26.LBC** LOCKER ROOM BENCH 18" X 48"
- **10 51 26.LBA** ADA BENCH LEFT CLEAENCE 42" X 20"

PBK
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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

B

KEY PLAN — NORTH: PLAN / TRUE

REGISTERED ARCHITECT — IAN LEPICOVSKY — 25572 — STATE OF TEXAS

CLIENT: Galena Park ISD
DATE: December 5, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA B FLOOR PLAN

A-101B

Plot Stamp:
1/8/2026 1:36:53 PM

0"
1"

LEVEL 1 - AREA C FLOOR PLAN
A-101C
FOR BLUEBEAM LABELING/DOOR:

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE.
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3, U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3.C, U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.
23. ALL EXTERIOR WINDOWS TO GET SOLID SURFACE WINDOW STOOLS. RE: STOREFRONT SILL DETAILS. 2

FLOOR PLAN LEGEND

- **10 65 13.4PSSM** — METAL SHELVING, 72" H — SHELF LENGTH / SHELF WIDTH
- **10 11 00.MBP** — PORCELAIN-ENAMEL MARKERBOARD — LENGTH
- **10 11 00.TKB** — TACKBOARD — LENGTH
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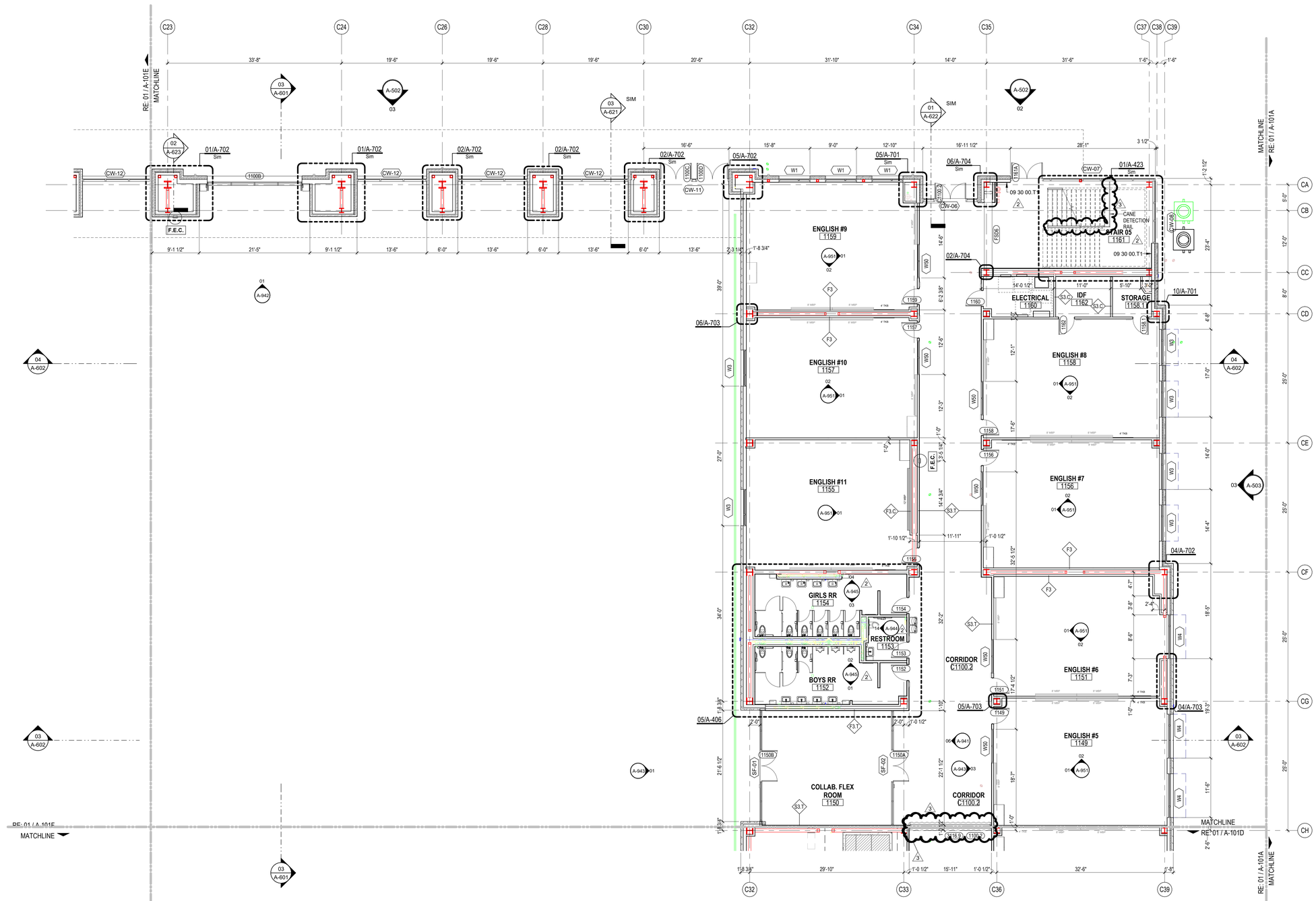
- A.E.D. — **10 43 00.AED** AUTOMATED EXTERNAL DEFIBRILLATOR
- **10 51 26.LBC** LOCKER ROOM BENCH 18" X 48"
- **10 51 26.LBA** ADA BENCH LEFT CLEAENCE 42" X 20"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]



01 LEVEL 1 - AREA C FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:36:58 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

C

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA C FLOOR PLAN

A-101C

LEVEL 1 - AREA D FLOOR PLAN
A-101D
FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
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7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3, U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3.C, U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
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23. ALL EXTERIOR WINDOWS TO GET SOLID SURFACE WINDOW STOOLS. RE: STOREFRONT SILL DETAILS. 2

KEYNOTE LEGEND

NUMBER	DESCRIPTION
03 30 00.CC4	CAST-IN-PLACE CONCRETE CURB 4" X 4"
07 95 13.EJC7	INTERIOR, FIRE-RATED, FLOOR/WALL/CEILING, SEISMIC-MOVEMENT JOINT COVER
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]

01 LEVEL 1 - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN = TRUE

REGISTERED ARCHITECT
STATE OF TEXAS
JAN LEPICOVSKY
25572

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA D FLOOR PLAN

A-101D

Plot Stamp:
1/8/2026 1:37:02 PM

0"
1"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
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8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3, U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3.C, U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
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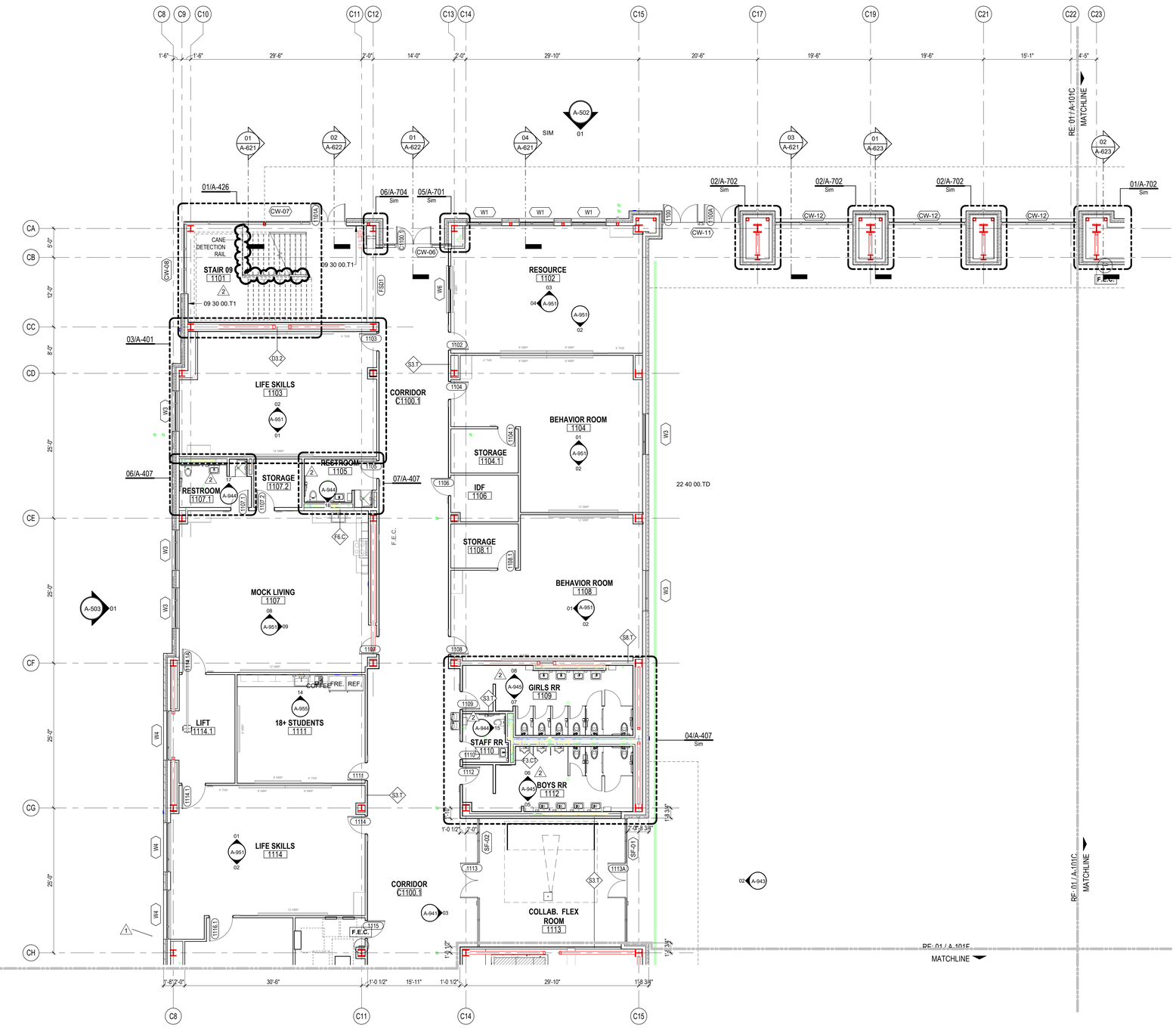
23. ALL EXTERIOR WINDOWS TO GET SOLID SURFACE WINDOW STOOLS. RE: STOREFRONT SILL DETAILS.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]
22 40 00.TD	TRENCH DRAIN, REFER TO PLUMBING



01 LEVEL 1 - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:37:06 PM

LEVEL 1 - AREA E FLOOR PLAN
A-101E
FOR BLUEBEAM LABELING/OCR:

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713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

E

KEY PLAN
NORTH: PLAN TRUE

LISA REGISTERED ARCHITECT LEPICOVSKY 25572

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA E FLOOR PLAN

A-101E

LEVEL 1 - AREA F FLOOR PLAN
A-101F
FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL ARCH PLAN NOTES

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8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3, U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3.C. U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
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15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
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22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.
23. ALL EXTERIOR WINDOWS TO GET SOLID SURFACE WINDOW STOOLS. RE: STOREFRONT SILL DETAILS.

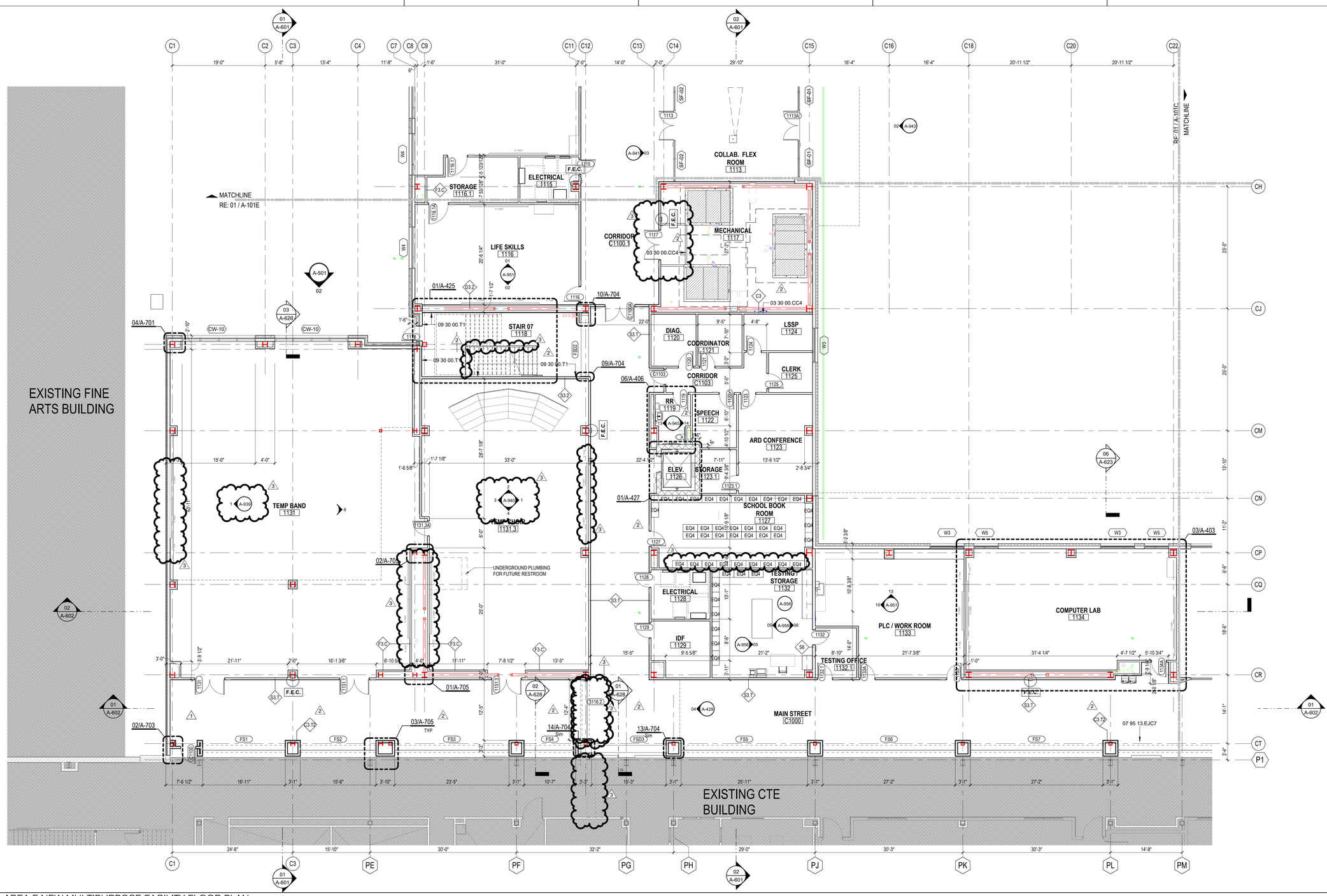
2

EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	MANUF	MODEL No.	REMARKS	Count
EQ4	Metal Shelving - 5 Shelves - 36" W x 18" D x 7'-2" H	-	Solid steel	CFCI	46

KEYNOTE LEGEND

NUMBER	DESCRIPTION
03 30 00.CC4	CAST-IN-PLACE CONCRETE CURB 4" X 4"
07 95 13.EJC7	INTERIOR, FIRE-RATED, FLOOR/WALL/CEILING, SEISMIC-MOVEMENT JOINT COVER
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]



01 LEVEL 1 - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:37:09 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

F

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25573
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

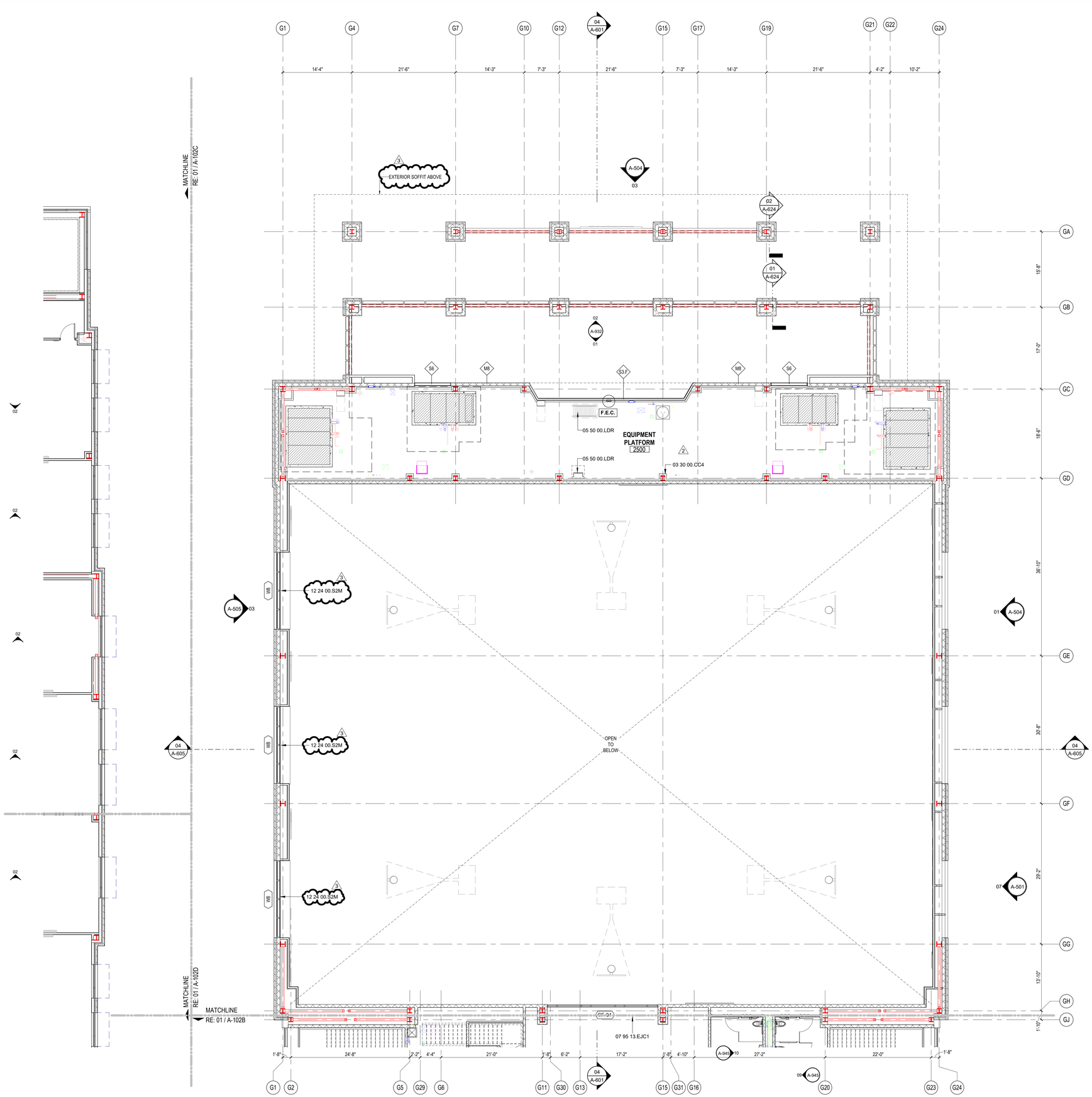
CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA F FLOOR PLAN

A-101F

0" 1"

LEVEL 2 - AREA A FLOOR PLAN
A-102A
FOR BLUEBEAM LABELING/DOOR:



01 LEVEL 2 - AREA A NEW GYM FLOOR PLAN
1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
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8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE M6 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE M4 U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
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22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.
23. REFER TO STRUC FOR SLAB DEPRESSION

KEYNOTE LEGEND

NUMBER	DESCRIPTION
03 30 00.CC4	CAST-IN-PLACE CONCRETE CURB 4" X 4"
05 50 00.LDR	STEEL LADDER
07 95 13.EJC1	INTERIOR, FLOOR, THERMAL-MOVEMENT JOINT COVER
12 24 00.S2M	MOTORIZED WINDOW SHADE UNIT MOUNTED [RECESSED IN CEILING or BETWEEN JAMBS or TO FACE OF GLAZING SYSTEM]

EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	MANUF	MODEL No.	REMARKS	Count
EQ8	Competition Gym Scoreboard	Nevco	2772-RL-W	OFCI	2

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

A

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS JAN LEPICOVSKY 25572 REGISTERED ARCHITECT

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA A FLOOR PLAN

A-102A

Plot Stamp:
1/8/2026 1:37:13 PM

LEVEL 2 - AREA D FLOOR PLAN
A-102D
FOR BLUEBEAM LABELING/OCR:

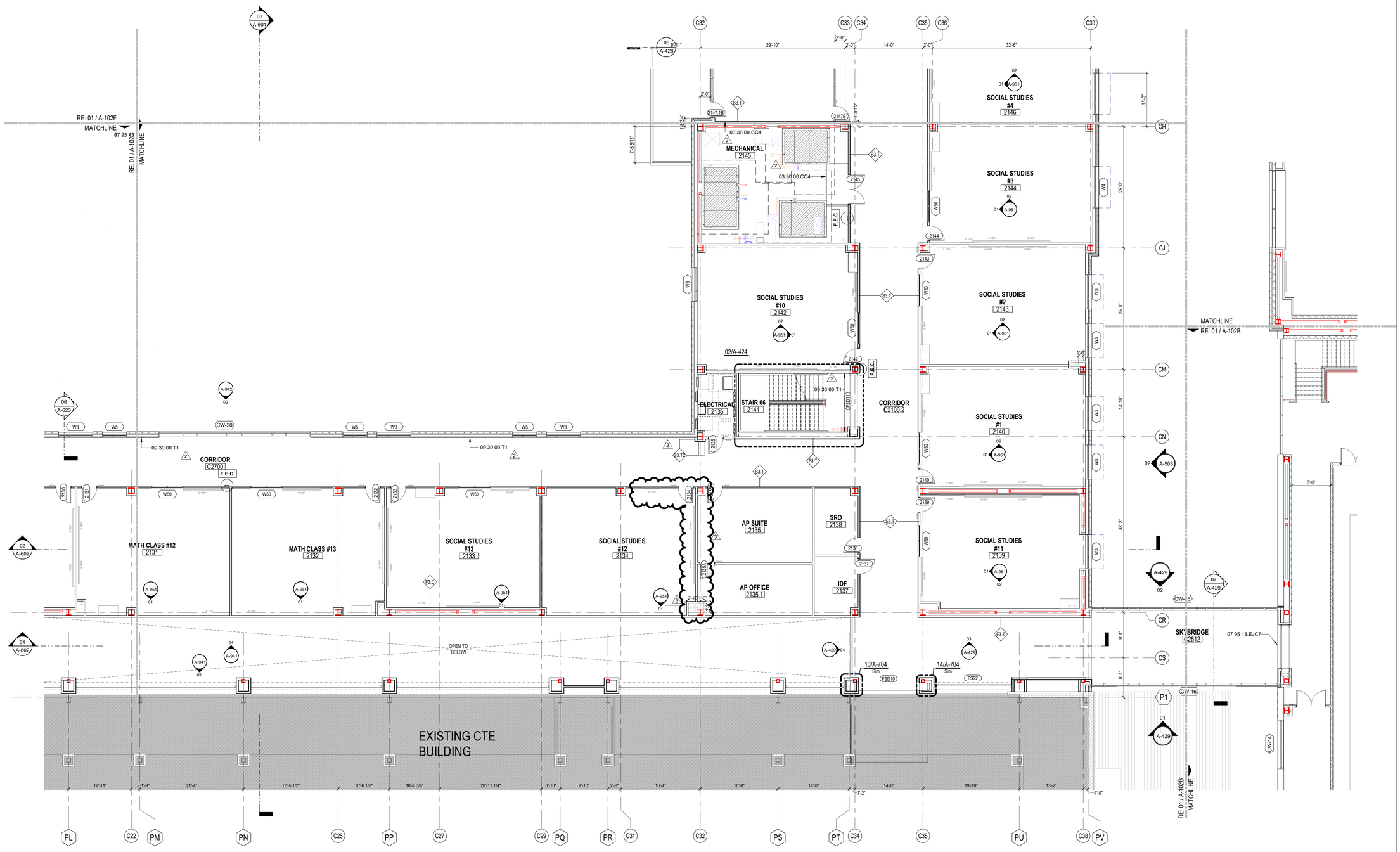
0"
1"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE.
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3, U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3.C, U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.
23. ALL EXTERIOR WINDOWS TO GET SOLID SURFACE WINDOW STOOLS. RE: STOREFRONT SILL DETAILS. 2

KEYNOTE LEGEND

NUMBER	DESCRIPTION
03 30 00.CC4	CAST-IN-PLACE CONCRETE CURB 4" X 4"
07 95 13	EXPANSION JOINT COVER ASSEMBLIES (Architectural - PBK Architects)
07 95 13.EJC7	INTERIOR, FIRE-RATED, FLOOR/WALL/CEILING, SEISMIC-MOVEMENT JOINT COVER
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]



01 LEVEL 2 - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:37:18 PM

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713-865-6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA D FLOOR PLAN

A-102D

GENERAL ARCH PLAN NOTES

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8. REFER TO PARTITION TYPES ON A-600 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3, U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3.C. U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
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15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
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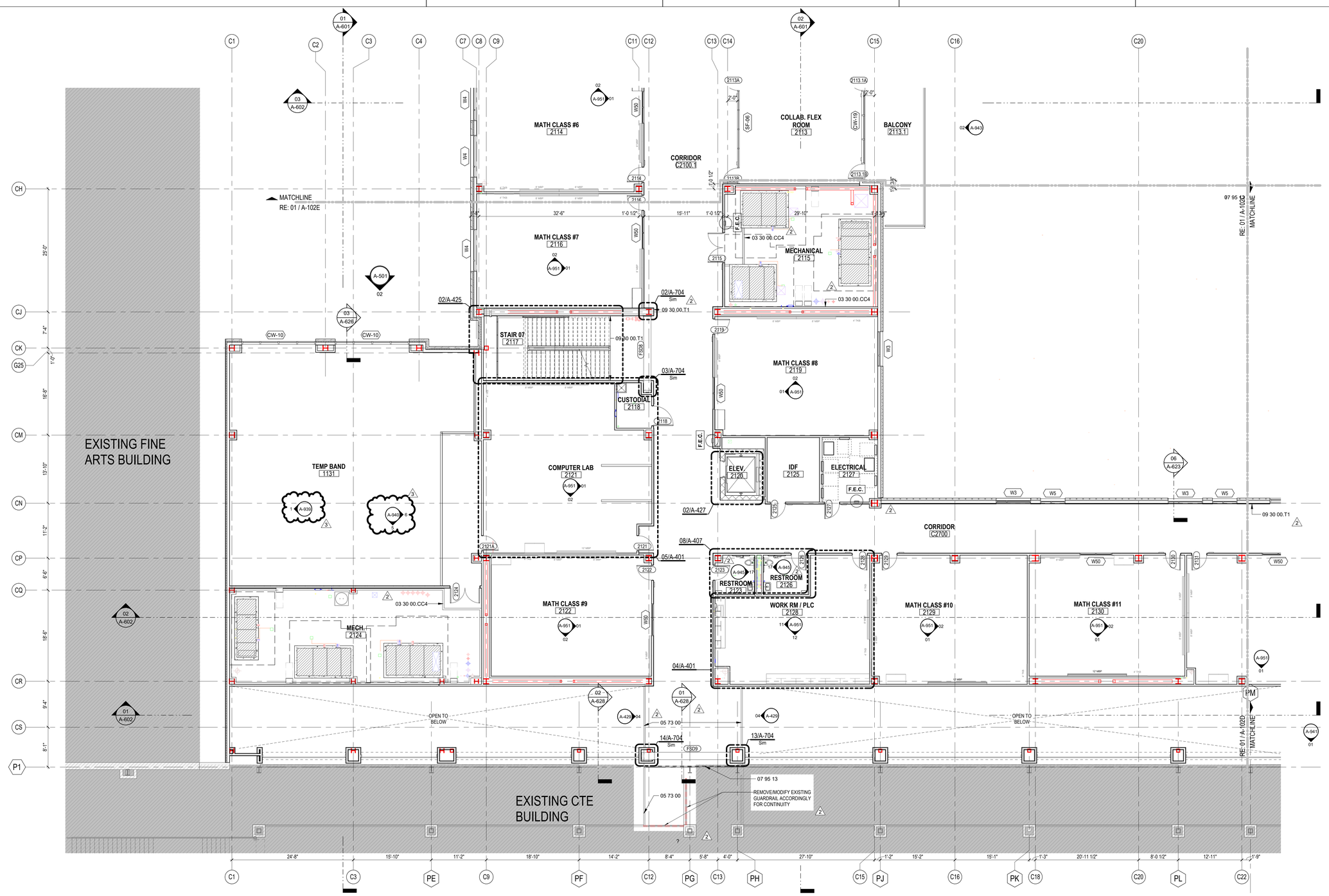
23. ALL EXTERIOR WINDOWS TO GET SOLID SURFACE WINDOW STOOLS. RE: STOREFRONT SILL DETAILS.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
03 30 00.CC4	CAST-IN-PLACE CONCRETE CURB 4" X 4"
05 73 00	DECORATIVE METAL RAILINGS (Architectural - PBK Architects)
07 95 13	EXPANSION JOINT COVER ASSEMBLIES (Architectural - PBK Architects)
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]



01 LEVEL 2 - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN ≈ TRUE

REGISTERED ARCHITECT
IAN EPICOSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA F FLOOR PLAN

A-102F

LEVEL 2 - AREA F FLOOR PLAN
A-102F
FOR BLUEBEAM LABELING/OCR:

Plot Stamp:
1/8/2026 1:37:22 PM

LEVEL 3 - AREA D FLOOR PLAN
A-103D
FOR BLUEBEAM LABELING/OCR:

0"
1"

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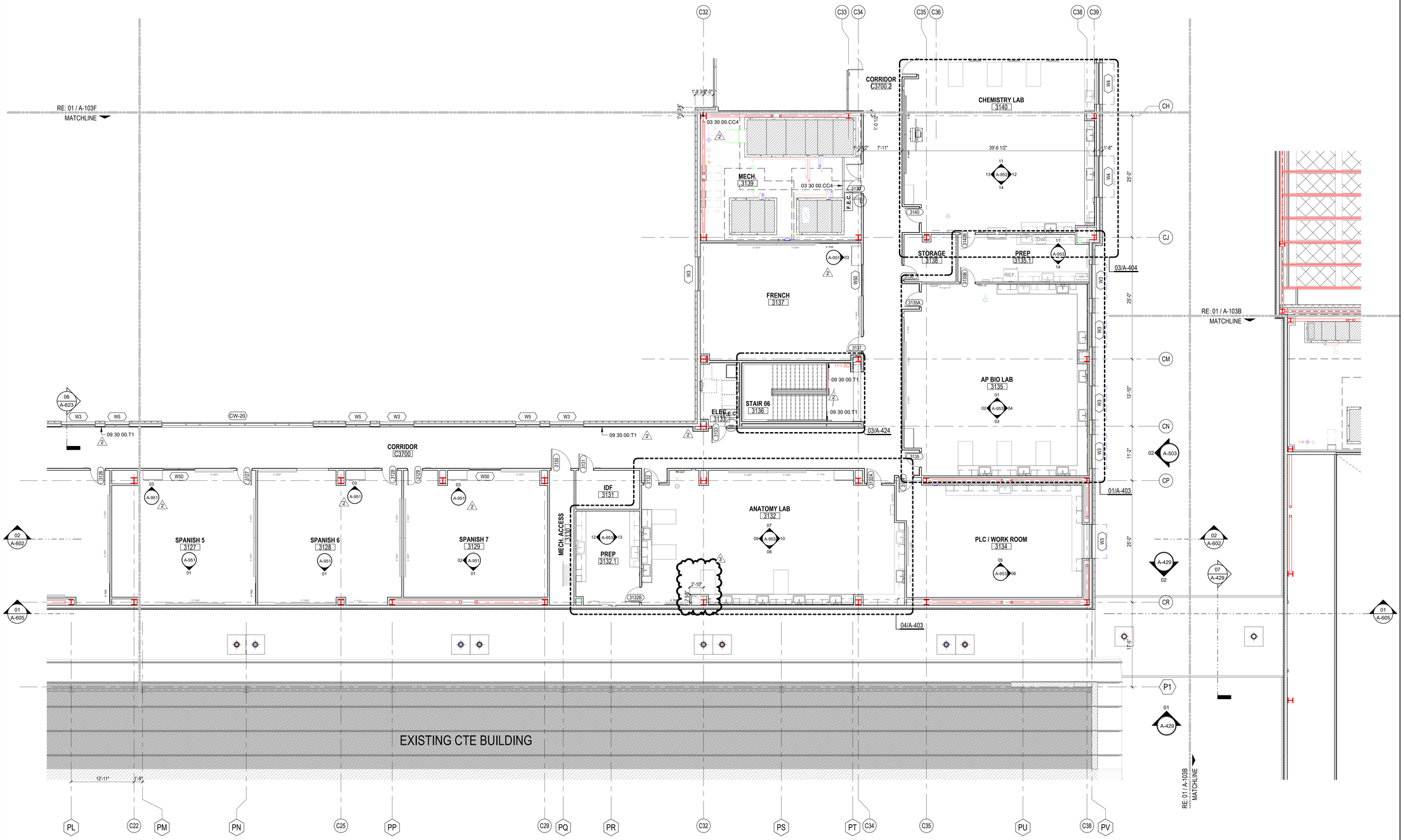
KEYNOTE LEGEND

NUMBER	DESCRIPTION
03 30 00.CC4	CAST-IN-PLACE CONCRETE CURB 4" X 4"
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]



01 LEVEL 3 - AREA D NEW GYM FLOOR PLAN
1/8" = 1'-0"

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713-865-6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN ≈ TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

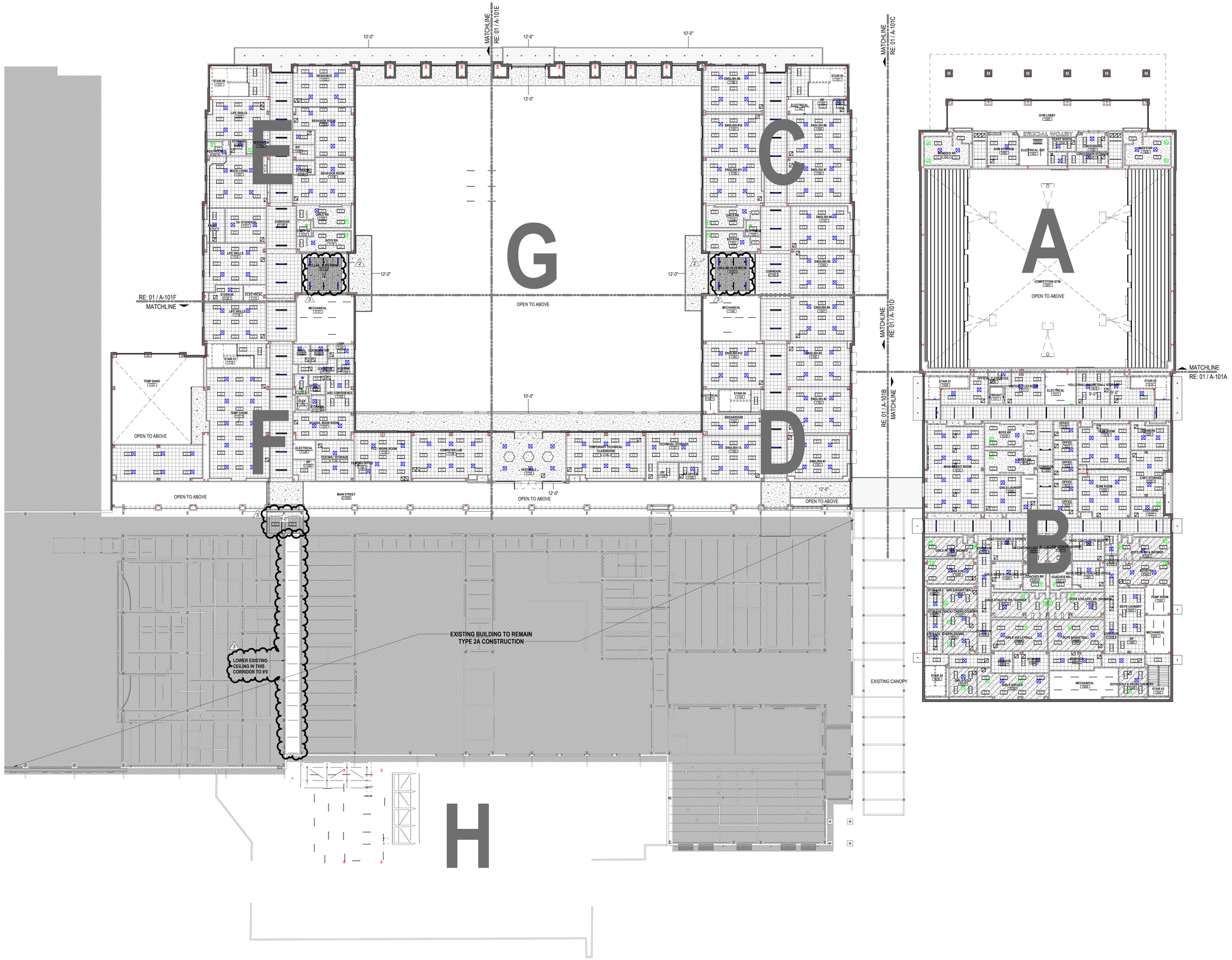
LEVEL 3 - AREA D
FLOOR PLAN

A-103D

Plot Stamp:
1/8/2026 1:37:26 PM

0"
1"

LEVEL 1 - OVERALL CEILING PLAN
A-201
FOR BLUEBEAM LABELING/DOOR:



01 LEVEL 1 - NEW GYM & MULTIPURPOSE FACILITY OVERALL CEILING PLAN
1" = 20'-0"

Plot Stamp:
1/8/2026 1:37:34 PM

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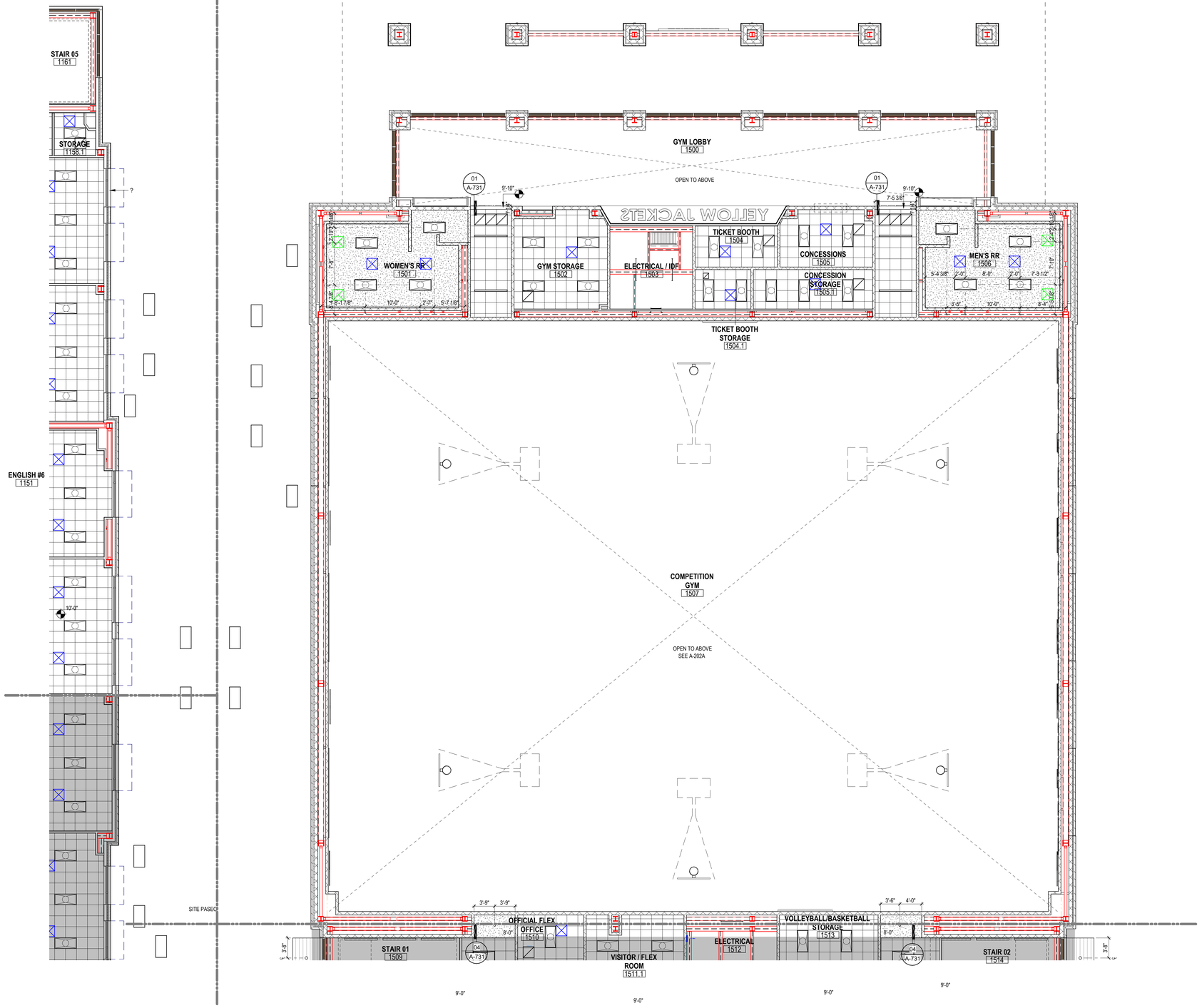
CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - OVERALL CEILING PLAN

A-201

LEVEL 1 - AREA A CEILING PLAN
A-201A
FOR BLUEBEAM LABELING/DOOR:

0"
1"



01 LEVEL 1 - AREA A NEW GYM CEILING PLAN
1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
2. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
3. ONLY CEILING MOUNTED FIXTURES AND EQUIPMENT IS SHOWN ON ARCHITECTURAL CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES
4. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
7. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
8. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS. THESE EXTERIOR WALLS SHALL BE DAMPROOFED AND INSULATED.
9. COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, GRILLES, AND SPEAKERS WITH MEPT DRAWINGS.
10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
12. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
13. CEILINGS AT ALL SHOWERS SHALL BE EPOXY PAINTED MOISTURE RESISTANT GYP BOARD.
14. ALL CEILING HEIGHT ON THIS SHEET, EXCEPT FOR FURR-DOWNS, SHALL BE AT _'-0"___ UNLESS NOTED OTHERWISE.
15. ALL WALL-MOUNTED LIGHT FIXTURES ARE TO BE MOUNTED AT __'-0"_ A.F.F. TO THE BOTTOM OF THE FIXTURE, UNLESS NOTED OTHERWISE.
16. CONDUIT AND / OR RACEWAY MOUNTED TO STRUCTURAL MEMBERS IN EXPOSED-TO-STRUCTURE SPACES SHALL BE INSTALLED TIGHT TO DECK AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. DO NOT INSTALL CONDUIT, RACEWAY, OR WIRING PERPENDICULAR TO JOISTS NEAR BOTTOM CHORD LEVEL.

KEYNOTE LEGEND

NUMBER	DESCRIPTION

CEILING MATERIALS LEGEND

09 51 00.ACT1
ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID

09 51 00.ACT2
ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID

09 51 00.ACT3
ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID

09 21 16.GCX
GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED

09 24 00.PSD
CEMENT PLASTER SOFFIT - DASH FINISH

09 21 16.GMS
GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED

09 84 00.ARC14
TECTUM CEILING PANELS, TYPE 14 - HIGH NRC

07 42 13.SFT1
METAL SOFFIT PANEL SYSTEM

09 54 26.WCS#
WOOD CEILING SYSTEM

CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

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DATE	PROJECT NUMBER
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DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA A CEILING PLAN

A-201A

Plot Stamp:
1/8/2026 1:37:38 PM

LEVEL 1 - AREA B CEILING PLAN
A-201B
FOR BLUEBEAM LABELING/DOOR:

0"
1"

SITE PASEO

OFFICIAL FLEX OFFICE 1510
STAIR 01 1509
FREIGHT 1511
VISITOR / FLEX ROOM 1511.1
ELECTRICAL 1512
VOLLEYBALL/BASKETBALL STORAGE 1513
STAIR 02 1514
CORRIDOR C1508
OFFICE 1518
BOYS RR 1516
TEAM ROOM 1519
TRAINERS 1520
OFFICE 1521
MAIN WEIGHT ROOM 1515
GIRLS RR 1517
OFFICE 1522
CART STORAGE 1520.1
OFFICE 1523
GIRLS LAUNDRY 1524
IDF 1524.1
TEAM ROOM 1526
FLEX OFF. 1524.2
OFFICE 1525
CUSTODIAL 1527
CORRIDOR C1508
GIRLS PE RR & SHOWER 1530.1
CORRIDOR C1508.1
HEAD COACH GIRLS SPORTS 1528
W COACHES LOCKER/SHOWER 1529.1
M COACHES LOCKER/SHOWER 1541.1
HEAD COACH BOYS SPORTS 1539
CORRIDOR C1508.3
BOYS PE RR & SHOWER 1540.1
GIRLS PE 1530
GIRLS SPORTS COACHES OFFICE 1529
COACHES RR 1529.2
COACHES RR 1541.2
BOYS SPORTS COACHES OFFICE 1541
BOYS PE 1540
STORAGE 1537
GIRLS BASKETBALL 1531
GIRLS ATHLETIC RR / SHOWER 1532
BOYS ATHLETIC RR / SHOWER 1542
BOYS LAUNDRY 1543
PUMP ROOM 1544
STORAGE 1533.1
TRACK / CROSS COUNTRY 1533
MECHANICAL 1550.1
STORAGE 1535.1
CHEERLEADING 1535
CORRIDOR C1508.2
GIRLS VOLLEYBALL 1534
BOYS BASKETBALL 1546
CORRIDOR C1508.4
IDF 1545
STORAGE 1534.1
STORAGE 1538.1
STORAGE 1548.1
BOYS GOLF STOR. 1547
STAIR 04 1536
GIRLS GOLF 1537
GIRLS SOCCER 1538
MECHANICAL 1548
BOYS GOLF & CROSS COUNTRY 1549
STAIR 03 1550

26 00 00.LGT
07 42.13.MPU1
26 00 00.LGT

01 LEVEL 1 - AREA B NEW GYM CEILING PLAN CEILING PLAN
1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
2. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
3. ONLY CEILING MOUNTED FIXTURES AND EQUIPMENT IS SHOWN ON ARCHITECTURAL CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
4. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
7. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
8. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS. THESE EXTERIOR WALLS SHALL BE DAMPROOFED AND INSULATED.
9. COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, GRILLES, AND SPEAKERS WITH MEPT DRAWINGS.
10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
12. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
13. CEILINGS AT ALL SHOWERS SHALL BE EPOXY PAINTED MOISTURE RESISTANT GYP BOARD.
14. ALL CEILING HEIGHT ON THIS SHEET, EXCEPT FOR FURR-DOWNS, SHALL BE AT _10'-0"___ UNLESS NOTED OTHERWISE.
15. ALL WALL-MOUNTED LIGHT FIXTURES ARE TO BE MOUNTED AT __7'-0"__ A.F.F. TO THE BOTTOM OF THE FIXTURE, UNLESS NOTED OTHERWISE.
16. CONDUIT AND / OR RACEWAY MOUNTED TO STRUCTURAL MEMBERS IN EXPOSED-TO-STRUCTURE SPACES SHALL BE INSTALLED TIGHT TO DECK AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. DO NOT INSTALL CONDUIT, RACEWAY, OR WIRING PERPENDICULAR TO JOISTS NEAR BOTTOM CHORD LEVEL.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
07 42.13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
26 00 00.LGT	LIGHTING FIXTURE, REFER TO ELECTRICAL

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 21 16.GMS** GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED
- **09 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

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HOUSTON, TX
713-865-6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN = TRUE

REGISTERED ARCHITECT JAN LEPICOVSKY STATE OF TEXAS 25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA B CEILING PLAN

A-201B

Plot Stamp:
1/8/2026 1:37:47 PM

LEVEL 1 - AREA C CEILING PLAN
A-201C
FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
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11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
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CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL* (2)
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 21 16.GMS** GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED (2)
- **09 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG BAFFLES

01 LEVEL 1 - AREA C NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:37:55 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN / TRUE

STATE OF TEXAS REGISTERED ARCHITECT JAN LEPICOVSKY 25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA C CEILING PLAN

A-201C

LEVEL 1 - AREA D CEILING PLAN
A-201D
FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
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CEILING FIXTURE LEGEND

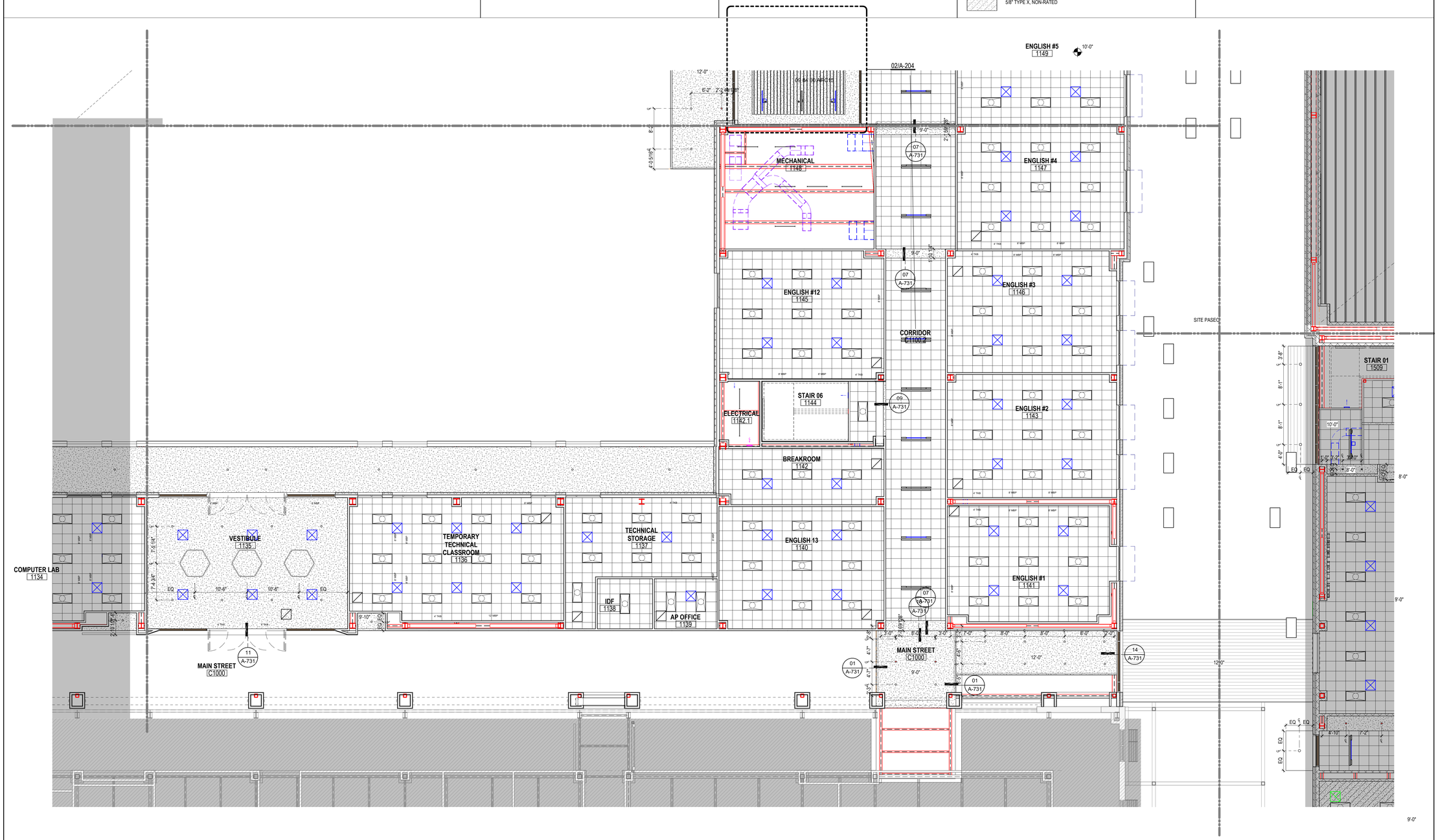
- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL* (2)
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 21 16.GMS** GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED (2)
- **09 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG BAFFLES



01 LEVEL 1 - AREA D NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:38:04 PM

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HOUSTON, TX
713-865-6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
STATE OF TEXAS
25572

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA D
CEILING PLAN

A-201D

LEVEL 1 - AREA E CEILING PLAN
A-201E
FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
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CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
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- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
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- **09 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG BAFFLES
26 00 00.LGT	LIGHTING FIXTURE, REFER TO ELECTRICAL

01 LEVEL 1 - AREA E NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:38:11 PM

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713-865-6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

E

KEY PLAN
NORTH: PLAN / TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA E CEILING PLAN

A-201E

0"
1"

LEVEL 1 - AREA F CEILING PLAN
A-201F
FOR BLUEBEAM LABELING/DOCR:

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
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4. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
7. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
8. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS. THESE EXTERIOR WALLS SHALL BE DAMPROOFED AND INSULATED.
9. COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, GRILLES, AND SPEAKERS WITH MEPT DRAWINGS.
10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
12. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
13. CEILINGS AT ALL SHOWERS SHALL BE EPOXY PAINTED MOISTURE-RESISTANT GYP BOARD.
14. ALL CEILING HEIGHT ON THIS SHEET, EXCEPT FOR FURR-DOWNS, SHALL BE AT __*10'-0"*__ UNLESS NOTED OTHERWISE.
15. ALL WALL-MOUNTED LIGHT FIXTURES ARE TO BE MOUNTED AT __*7'-0"*__ A.F.F. TO THE BOTTOM OF THE FIXTURE, UNLESS NOTED OTHERWISE.
16. CONDUIT AND / OR RACEWAY MOUNTED TO STRUCTURAL MEMBERS IN EXPOSED-TO-STRUCTURE SPACES SHALL BE INSTALLED TIGHT TO DECK AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. DO NOT INSTALL CONDUIT, RACEWAY, OR WIRING PERPENDICULAR TO JOISTS NEAR BOTTOM CHORD LEVEL.

CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 21 16.GMS** GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED
- **09 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG BAFFLES

01 LEVEL 1 - AREA F NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:38:18 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

F

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS REGISTERED ARCHITECT JAN LEPICOVSKY 25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

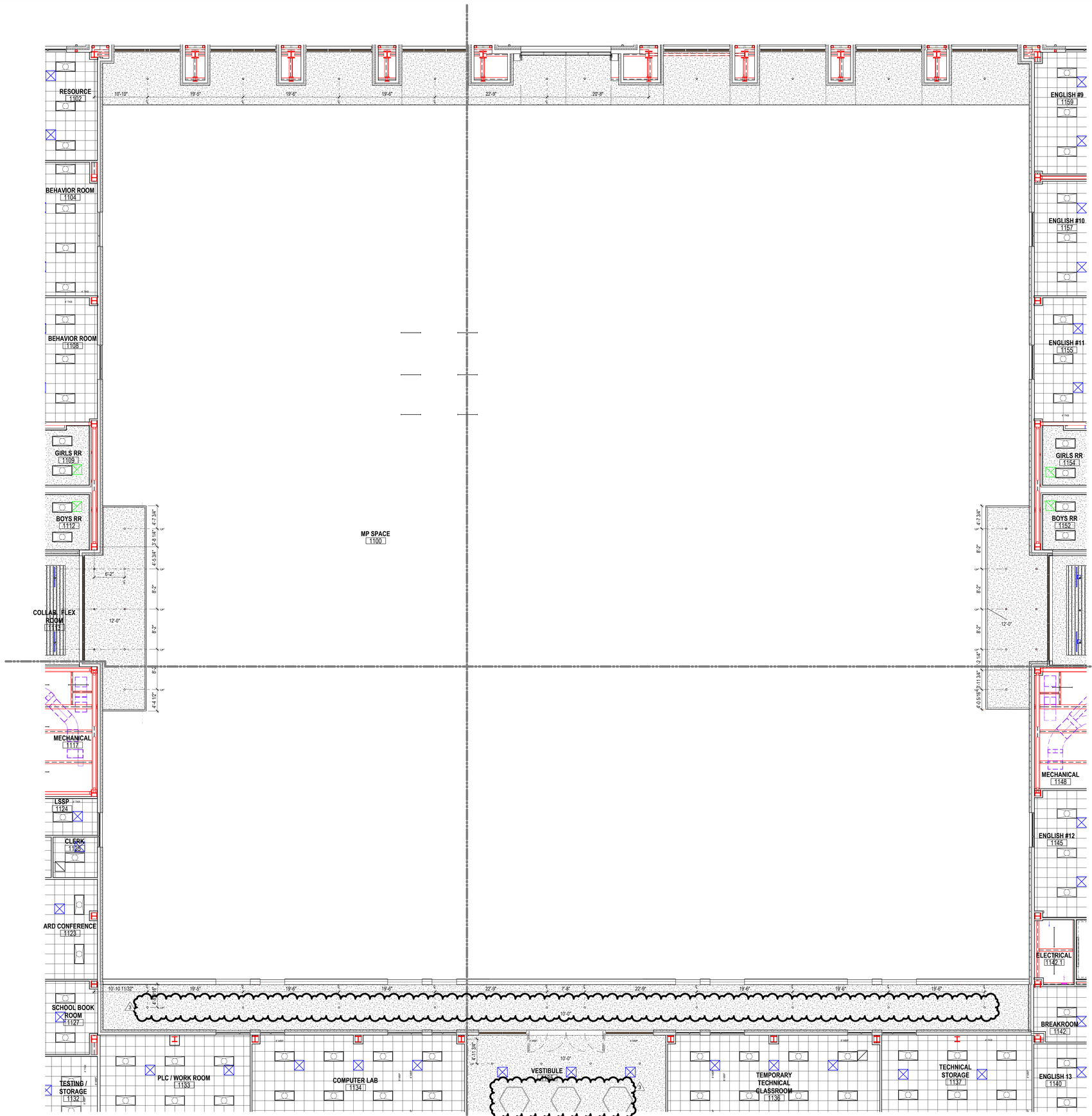
No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/05/01

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 1 - AREA F CEILING PLAN

A-201F

LEVEL 1 - AREA G CEILING PLAN
A-2011G
FOR BLUEBEAM LABELINGDOOR:



01 AREA G NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
2. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
3. ONLY CEILING MOUNTED FIXTURES AND EQUIPMENT IS SHOWN ON ARCHITECTURAL CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
4. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
7. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
8. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS. THESE EXTERIOR WALLS SHALL BE DAMPROOFED AND INSULATED.
9. COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, GRILLES, AND SPEAKERS WITH MEPT DRAWINGS.
10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
12. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
13. CEILINGS AT ALL SHOWERS SHALL BE EPOXY PAINTED MOISTURE RESISTANT GYP BOARD.
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16. CONDUIT AND / OR RACEWAY MOUNTED TO STRUCTURAL MEMBERS IN EXPOSED-TO-STRUCTURE SPACES SHALL BE INSTALLED TIGHT TO DECK AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. DO NOT INSTALL CONDUIT, RACEWAY, OR WIRING PERPENDICULAR TO JOISTS NEAR BOTTOM CHORD LEVEL.

KEYNOTE LEGEND

NUMBER	DESCRIPTION

CEILING MATERIALS LEGEND

09 51 00.ACT1
ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID

09 51 00.ACT2
ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'x2' GRID

09 51 00.ACT3
ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'x2' GRID

09 21 16.GCX
GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED

09 24 00.PSD
CEMENT PLASTER SOFFIT - DASH FINISH

09 21 16.GMS
GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED

09 84 00.ARC14
TECTUM CEILING PANELS, TYPE 14 - HIGH NRC

07 42 13.SFT1
METAL SOFFIT PANEL SYSTEM

09 54 26.WCS#
WOOD CEILING SYSTEM

CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

JAN LEPICOVSKY REGISTERED ARCHITECT 25572 STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

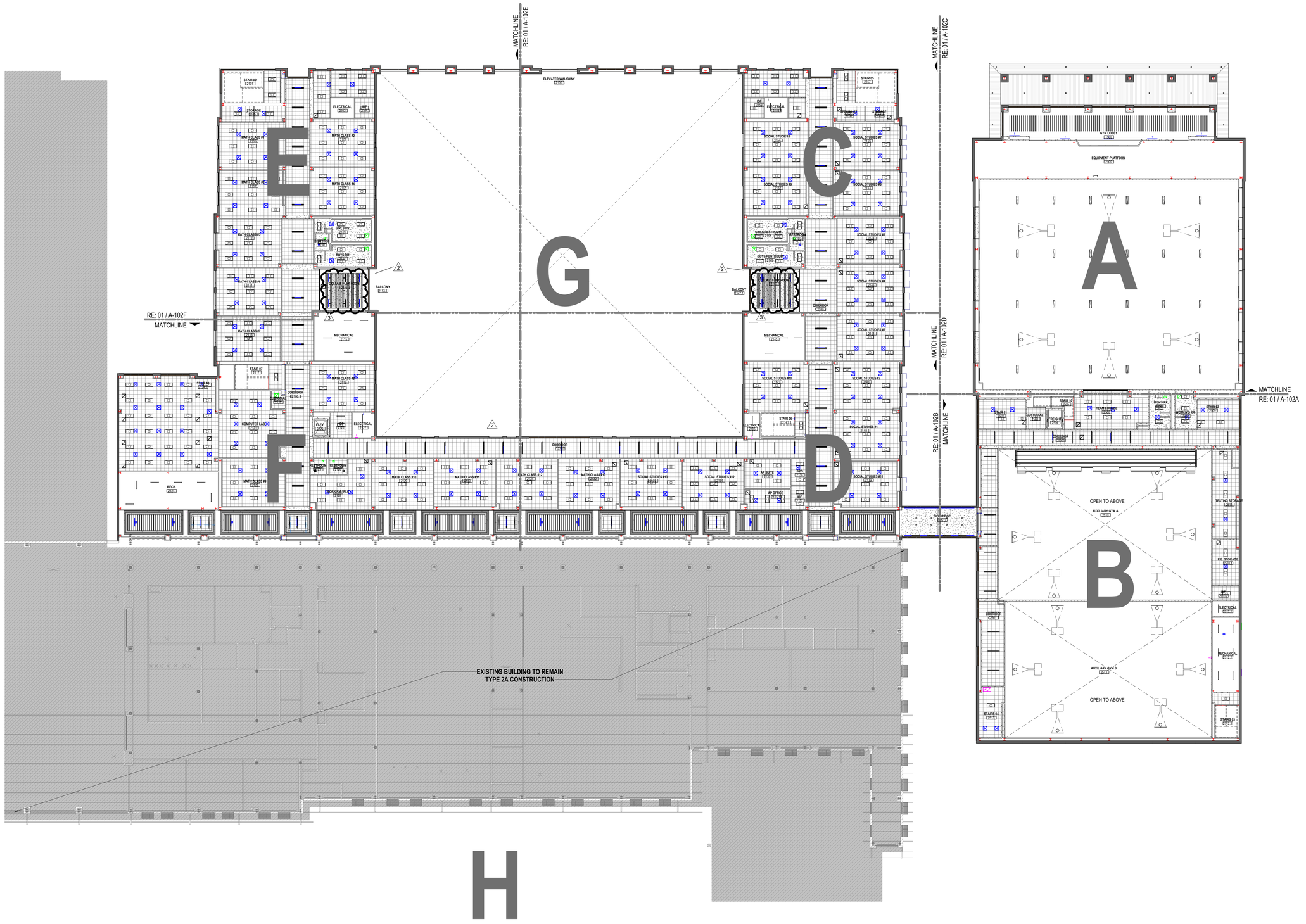
LEVEL 1 - AREA G CEILING PLAN

A-201G

Plot Stamp:
1/8/2026 1:38:24 PM

LEVEL 2 - OVERALL CEILING PLAN
A-202
FOR BLUEBEAM LABELING/DOOR:

0"
1"



01 LEVEL 2 - NEW GYM & MULTIPURPOSE FACILITY OVERALL CEILING PLAN
1" = 20'-0"

Plot Stamp:
1/8/2026 1:38:31 PM

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ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
STEVEN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

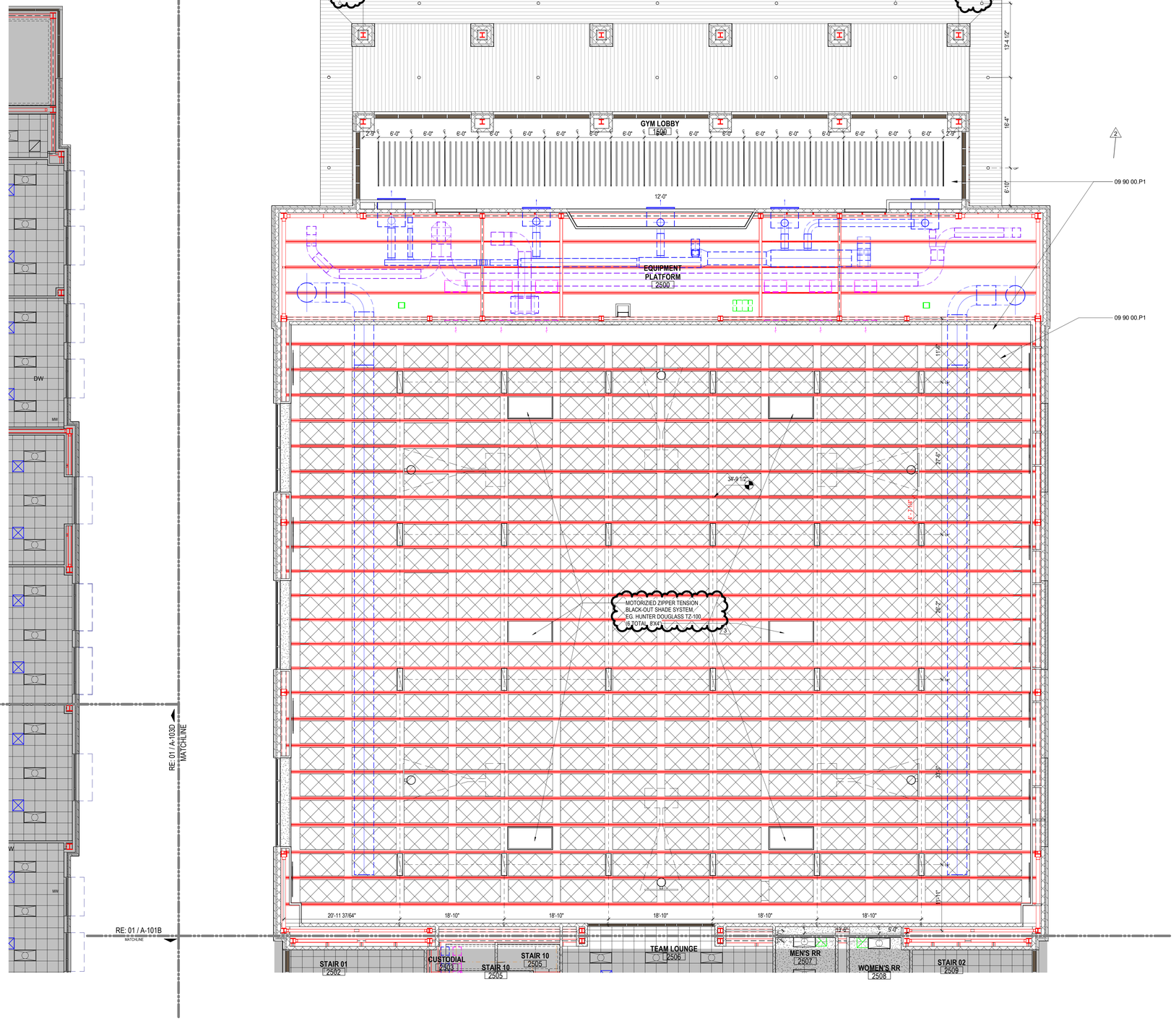
LEVEL 2 - OVERALL CEILING PLAN

A-202

LEVEL 2 - AREA A CEILING PLAN
A-202A

FOR BLUEBEAM LABELING/OCR:

0"
1"



01 LEVEL 2 - AREA A NEW GYM CEILING PLAN
1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
2. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
3. ONLY CEILING MOUNTED FIXTURES AND EQUIPMENT IS SHOWN ON ARCHITECTURAL CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
4. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
7. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
8. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS. THESE EXTERIOR WALLS SHALL BE DAMPROOFED AND INSULATED.
9. COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, GRILLES, AND SPEAKERS WITH MEPT DRAWINGS.
10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
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15. ALL WALL-MOUNTED LIGHT FIXTURES ARE TO BE MOUNTED AT __7'-0"__ A.F.F. TO THE BOTTOM OF THE FIXTURE, UNLESS NOTED OTHERWISE.
16. CONDUIT AND / OR RACEWAY MOUNTED TO STRUCTURAL MEMBERS IN EXPOSED-TO-STRUCTURE SPACES SHALL BE INSTALLED TIGHT TO DECK AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. DO NOT INSTALL CONDUIT, RACEWAY, OR WIRING PERPENDICULAR TO JOISTS NEAR BOTTOM CHORD LEVEL.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 90 00.P1	PAINT TYPE 1 - [FIELD]

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'X2' GRID
- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 21 16.GMS** GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED
- **09 51 00.ACT4** ACOUSTICAL CEILING PANEL, TYPE 4 - REFLECTIVE, 2'X2' GRID
- **09 51 00.ACT5** ACOUSTICAL CEILING PANEL, TYPE 5 - HIGH NRC, 2'X2' GRID, BLACK FINISH
- **09 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

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ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker

DRAWN BY: Author

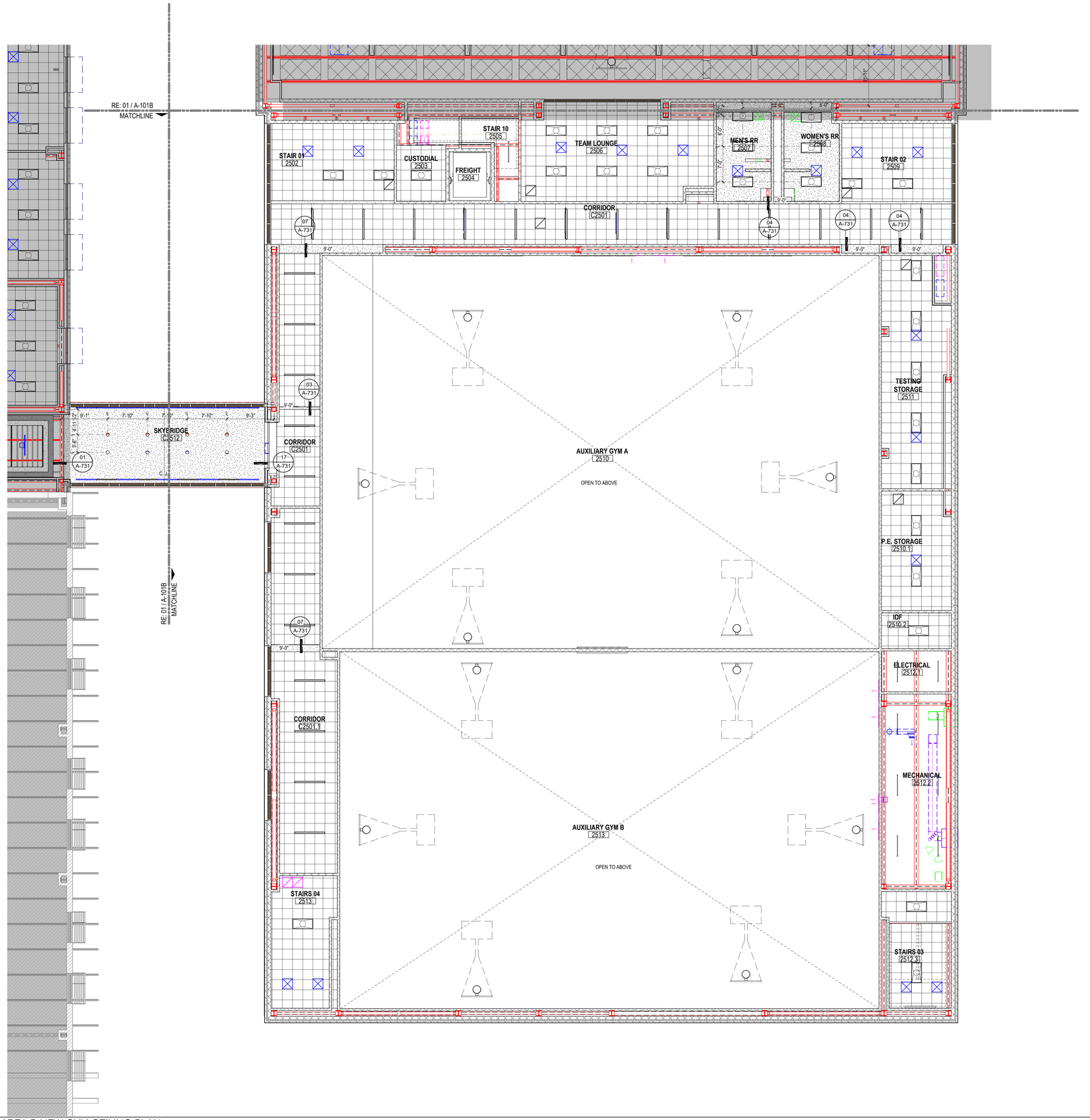
LEVEL 2 - AREA A CEILING PLAN

A-202A

Plot Stamp:
1/8/2026 3:49:06 PM

LEVEL 2 - AREA B CEILING PLAN
A-202B
FOR BLUEBEAM LABELING/DOOR:

0"
1"



01 LEVEL 2 - AREA B NEW GYM CEILING PLAN
1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
2. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
3. ONLY CEILING MOUNTED FIXTURES AND EQUIPMENT IS SHOWN ON ARCHITECTURAL CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
4. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
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6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
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11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
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KEYNOTE LEGEND

NUMBER	DESCRIPTION

CEILING MATERIALS LEGEND

09 51 00.ACT1
ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID

09 51 00.ACT2
ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID

09 51 00.ACT3
ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID

09 21 16.GCX
GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED

09 24 00.PSD
CEMENT PLASTER SOFFIT - DASH FINISH

09 21 16.GMS
GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED

09 84 00.ARC14
TECTUM CEILING PANELS, TYPE 14 - HIGH NRC

07 42 13.SFT1
METAL SOFFIT PANEL SYSTEM

09 54 26.WCS#
WOOD CEILING SYSTEM

CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX. 77547

ISSUE FOR PROPOSAL

Galena Park ISD

B

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA B CEILING PLAN

A-202B

Plot Stamp:
1/8/2026 1:38:39 PM

LEVEL 2 - AREA C CEILING PLAN
A-202C
FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
2. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
3. ONLY CEILING MOUNTED FIXTURES AND EQUIPMENT IS SHOWN ON ARCHITECTURAL CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
4. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
7. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
8. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS. THESE EXTERIOR WALLS SHALL BE DAMPROOFED AND INSULATED.
9. COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, GRILLES, AND SPEAKERS WITH MEPT DRAWINGS.
10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
12. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
13. CEILINGS AT ALL SHOWERS SHALL BE EPOXY PAINTED MOISTURE-RESISTANT GYP BOARD.
14. ALL CEILING HEIGHT ON THIS SHEET, EXCEPT FOR FURR-DOWNS, SHALL BE AT __10'-0"__ UNLESS NOTED OTHERWISE.
15. ALL WALL-MOUNTED LIGHT FIXTURES ARE TO BE MOUNTED AT __7'-0"__ A.F.F. TO THE BOTTOM OF THE FIXTURE, UNLESS NOTED OTHERWISE.
16. CONDUIT AND / OR RACEWAY MOUNTED TO STRUCTURAL MEMBERS IN EXPOSED-TO-STRUCTURE SPACES SHALL BE INSTALLED TIGHT TO DECK AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. DO NOT INSTALL CONDUIT, RACEWAY, OR WIRING PERPENDICULAR TO JOISTS NEAR BOTTOM CHORD LEVEL.

CEILING FIXTURE LEGEND

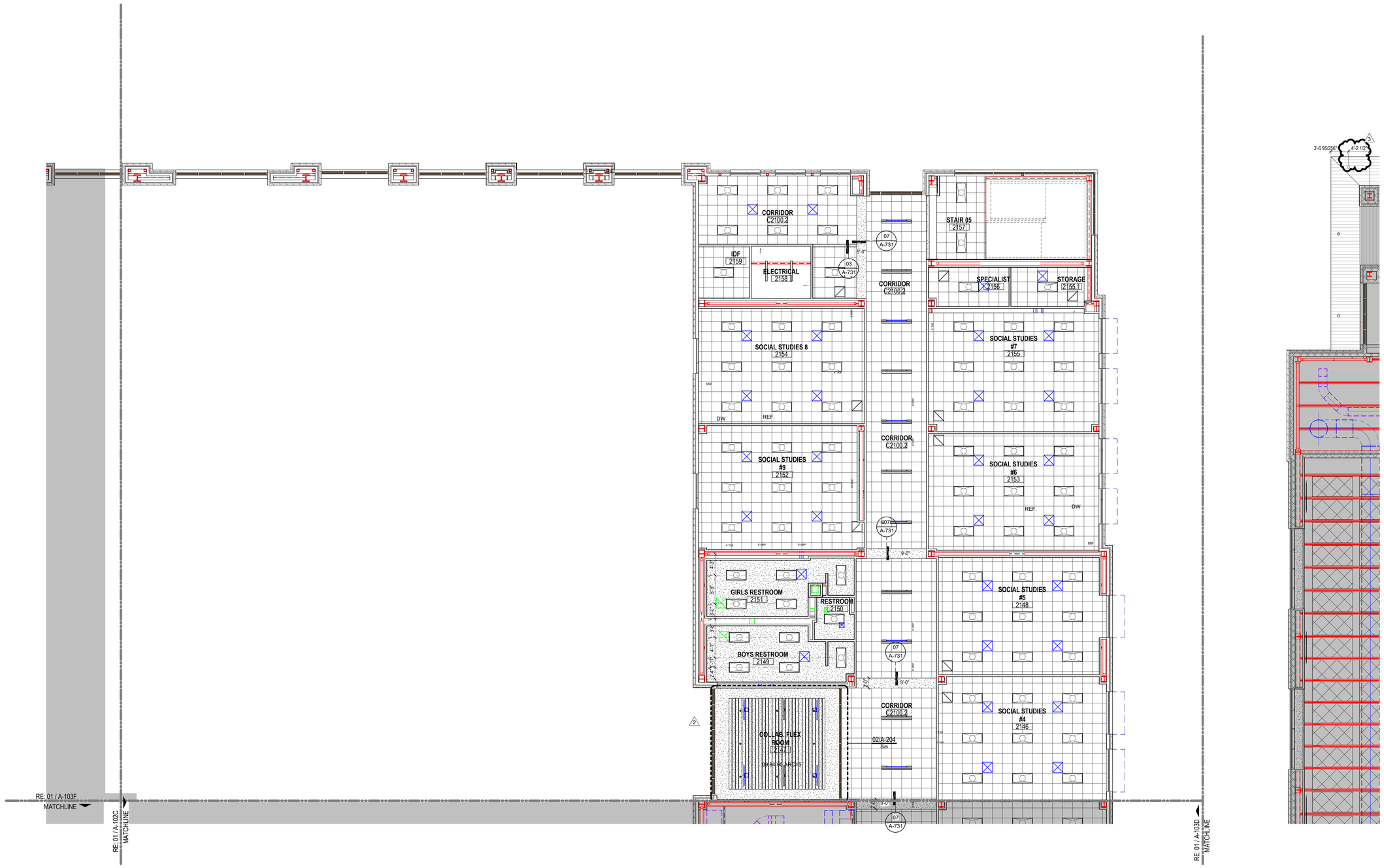
- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 21 16.GMS** GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED
- **09 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG BAFFLES



01 LEVEL 2 - AREA C NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

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TX FIRM: BR 1608
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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN ≈ TRUE

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA C CEILING PLAN

A-202C

Plot Stamp:
1/8/2026 1:38:44 PM

LEVEL 2 - AREA D CEILING PLAN
A-202D
FOR BLUEBEAM LABELING/DOOR:

0"
1"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
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10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
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15. ALL WALL-MOUNTED LIGHT FIXTURES ARE TO BE MOUNTED AT __'7'-0"__ A.F.F. TO THE BOTTOM OF THE FIXTURE, UNLESS NOTED OTHERWISE.
16. CONDUIT AND / OR RACEWAY MOUNTED TO STRUCTURAL MEMBERS IN EXPOSED-TO-STRUCTURE SPACES SHALL BE INSTALLED TIGHT TO DECK AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. DO NOT INSTALL CONDUIT, RACEWAY, OR WIRING PERPENDICULAR TO JOISTS NEAR BOTTOM CHORD LEVEL.

CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

CEILING MATERIALS LEGEND

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- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
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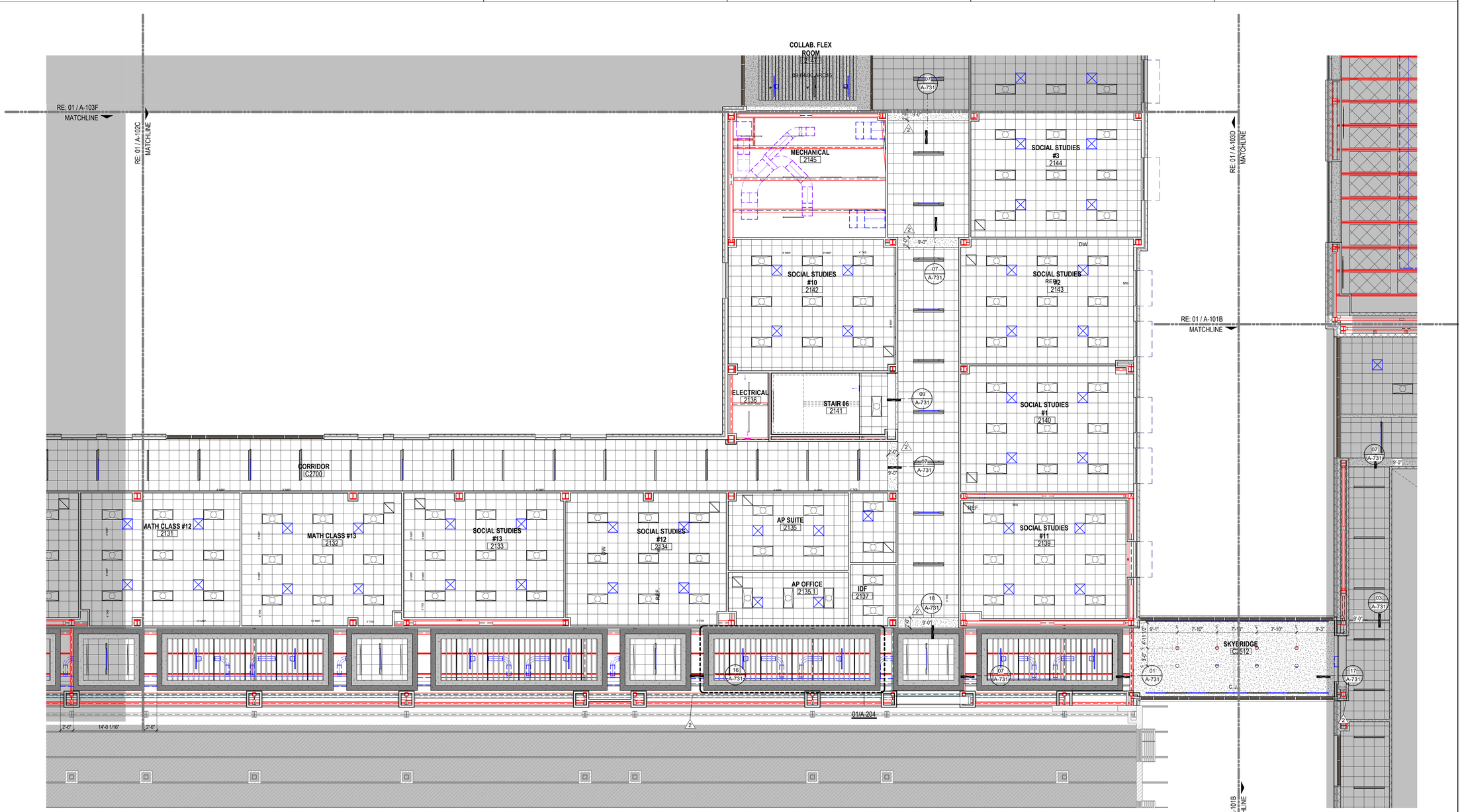
- **09 21 16.GMS** GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED
- **09 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG BAFFLES



01 LEVEL 2 - AREA D NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:38:47 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

D

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
IAN EPICOSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA D
CEILING PLAN

A-202D

LEVEL 2 - AREA E CEILING PLAN
A-202E

FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
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CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL* (2)
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 96" SUSPENDED BAFFLE
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- PROJECTOR

CEILING MATERIALS LEGEND

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- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 21 16.GMS** GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED (2)
- **09 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG BAFFLES

01 LEVEL 2 - AREA E NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

E

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA E CEILING PLAN

A-202E

Plot Stamp:
1/8/2026 1:38:51 PM

0"
1"

LEVEL 2 - AREA F CEILING PLAN
A-202F

FOR BLUEBEAM LABELING/OCR:

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
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- 4" RECESSED CAN LIGHT — *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT — *RE: ELECTRICAL*
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- 96" SUSPENDED BAFFLE LIT — *RE: ELECTRICAL*
- PROJECTOR

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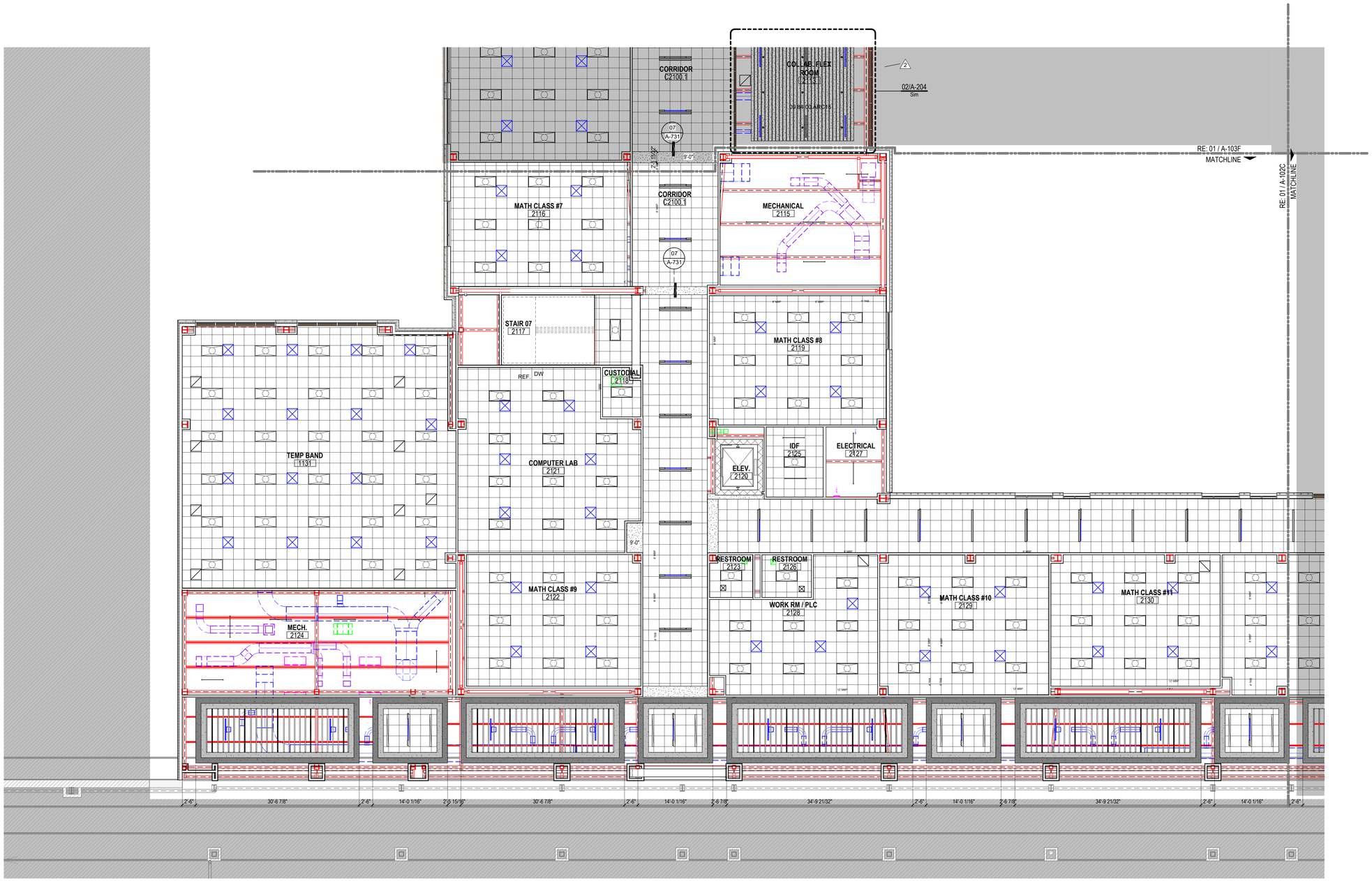
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG BAFFLES



01 LEVEL 2 - AREA F NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:38:57 PM

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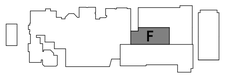
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL



KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

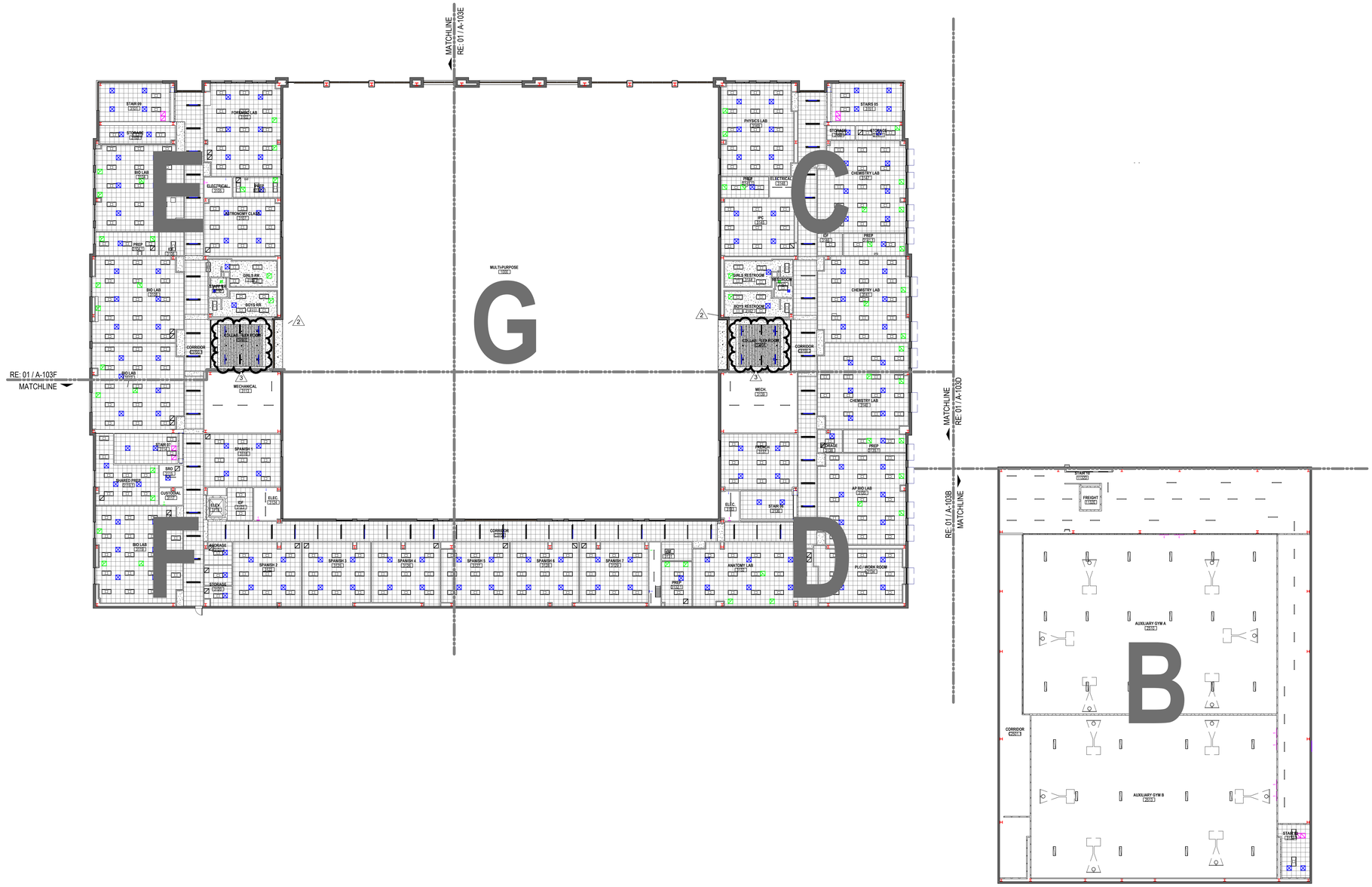
CHECKED BY: Checker
DRAWN BY: Author

LEVEL 2 - AREA F CEILING PLAN

A-202F

LEVEL 3 - OVERALL CEILING PLAN
A-203
FOR BLUEBEAM LABELING/DOOR:

0"
1"



01 LEVEL 3 - NEW GYM & MULTIPURPOSE FACILITY OVERALL CEILING PLAN
1" = 20'-0"

Plot Stamp:
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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

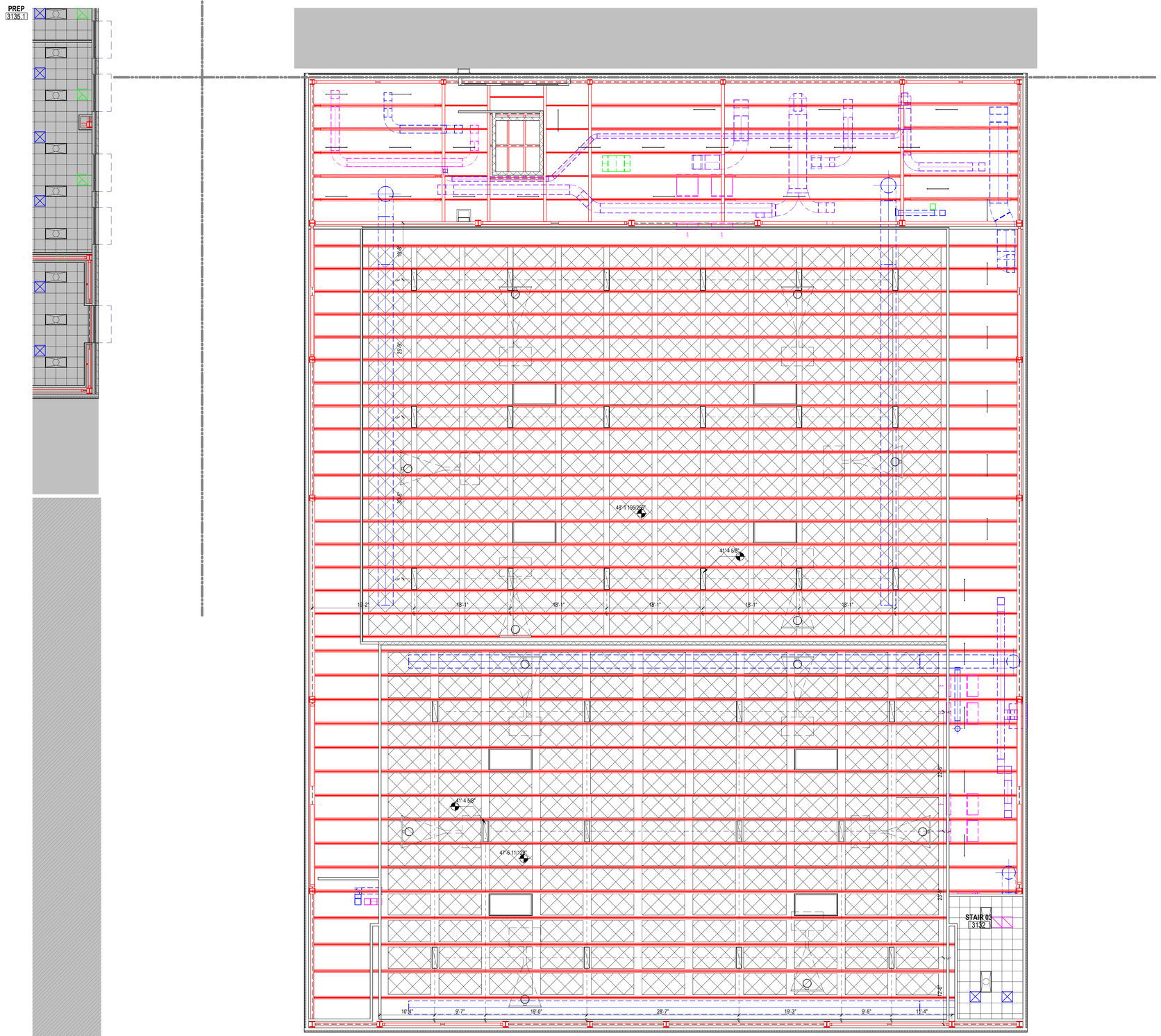
CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - OVERALL CEILING PLAN

A-203

LEVEL 3 - AREA B CEILING PLAN
A-203B
FOR BLUEBEAM LABELING/DOOR:

0"
1"



01 LEVEL 3 - AREA C CEILING PLAN Copy 1
1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
2. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
3. ONLY CEILING MOUNTED FIXTURES AND EQUIPMENT IS SHOWN ON ARCHITECTURAL CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
4. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
7. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
8. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS. THESE EXTERIOR WALLS SHALL BE DAMPROOFED AND INSULATED.
9. COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, GRILLES, AND SPEAKERS WITH MEPT DRAWINGS.
10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
12. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
13. CEILINGS AT ALL SHOWERS SHALL BE EPOXY PAINTED MOISTURE RESISTANT GYP BOARD.
14. ALL CEILING HEIGHT ON THIS SHEET, EXCEPT FOR FURR-DOWNS, SHALL BE AT _10'-0"___ UNLESS NOTED OTHERWISE.
15. ALL WALL-MOUNTED LIGHT FIXTURES ARE TO BE MOUNTED AT __7'-0"_ A.F.F. TO THE BOTTOM OF THE FIXTURE, UNLESS NOTED OTHERWISE.
16. CONDUIT AND / OR RACEWAY MOUNTED TO STRUCTURAL MEMBERS IN EXPOSED-TO-STRUCTURE SPACES SHALL BE INSTALLED TIGHT TO DECK AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. DO NOT INSTALL CONDUIT, RACEWAY, OR WIRING PERPENDICULAR TO JOISTS NEAR BOTTOM CHORD LEVEL.

KEYNOTE LEGEND

NUMBER	DESCRIPTION

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 21 16.GMS** GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED
- **09 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

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NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - AREA B CEILING PLAN

A-203B

Plot Stamp:
1/8/2026 1:39:04 PM

LEVEL 3 - AREA C CEILING PLAN
A-203C
FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL CEILING PLAN NOTES

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CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL* (2)
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

CEILING MATERIALS LEGEND

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- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 21 16.GMS** GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED (2)
- **09 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG BAFFLES

01 LEVEL 3 - AREA C CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
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ISSUE FOR PROPOSAL

Galena Park ISD

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KEY PLAN
NORTH: PLAN / TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - AREA C CEILING PLAN

A-203C

LEVEL 3 - AREA D CEILING PLAN
A-203D
FOR BLUEBEAM LABELING/DOCR:

0"
1"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
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CEILING FIXTURE LEGEND

- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL* (2)
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
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- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
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- ARC15 SUSPENDED BAFFLE *RE: SPECS*
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- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

CEILING MATERIALS LEGEND

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- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
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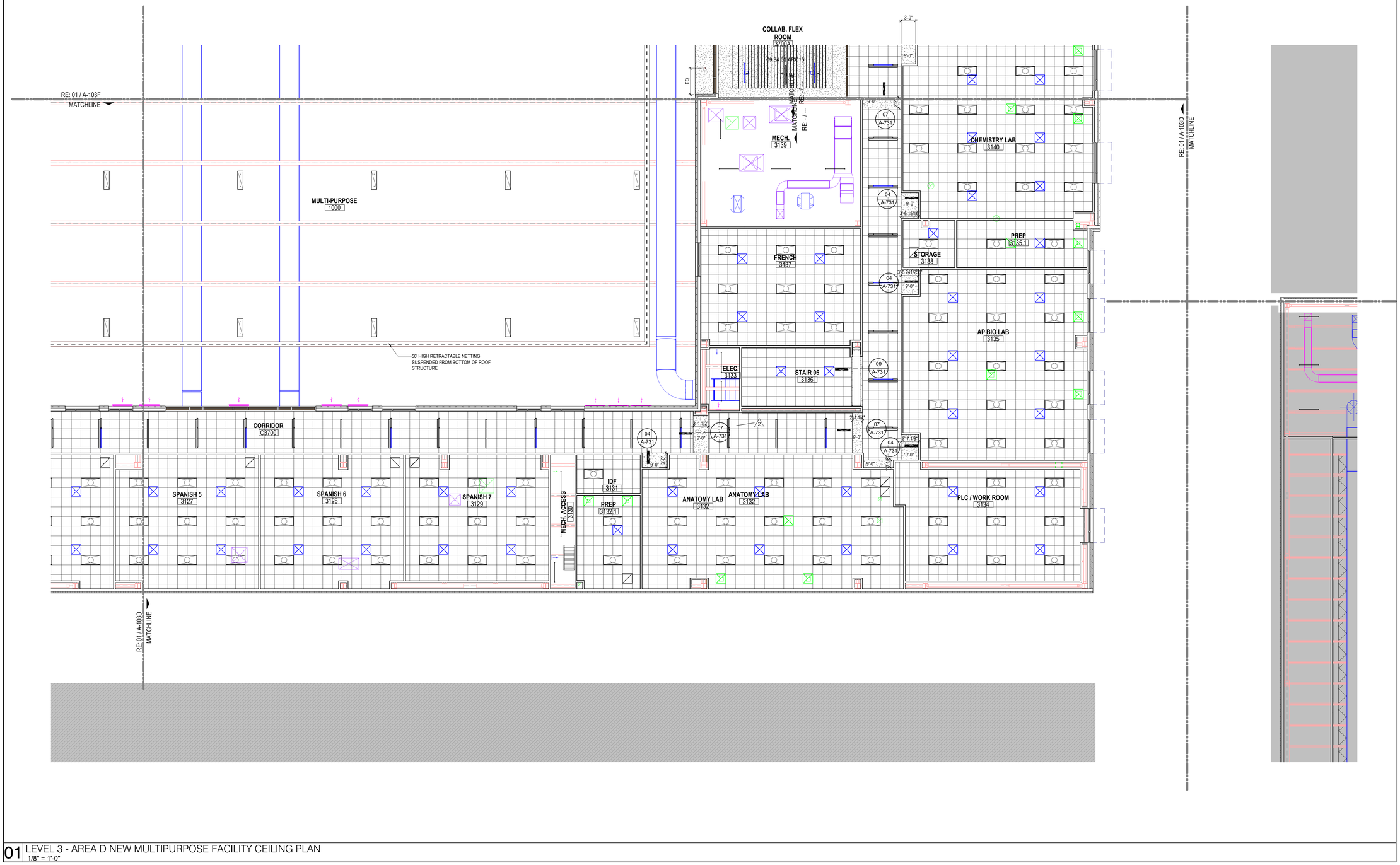
- **09 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG BAFFLES



01 LEVEL 3 - AREA D NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

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Galena Park ISD

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KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - AREA D
CEILING PLAN

A-203D

LEVEL 3 - AREA E CEILING PLAN
A-203E
FOR BLUEBEAM LABELING/OCR:

0"
1"

GENERAL CEILING PLAN NOTES

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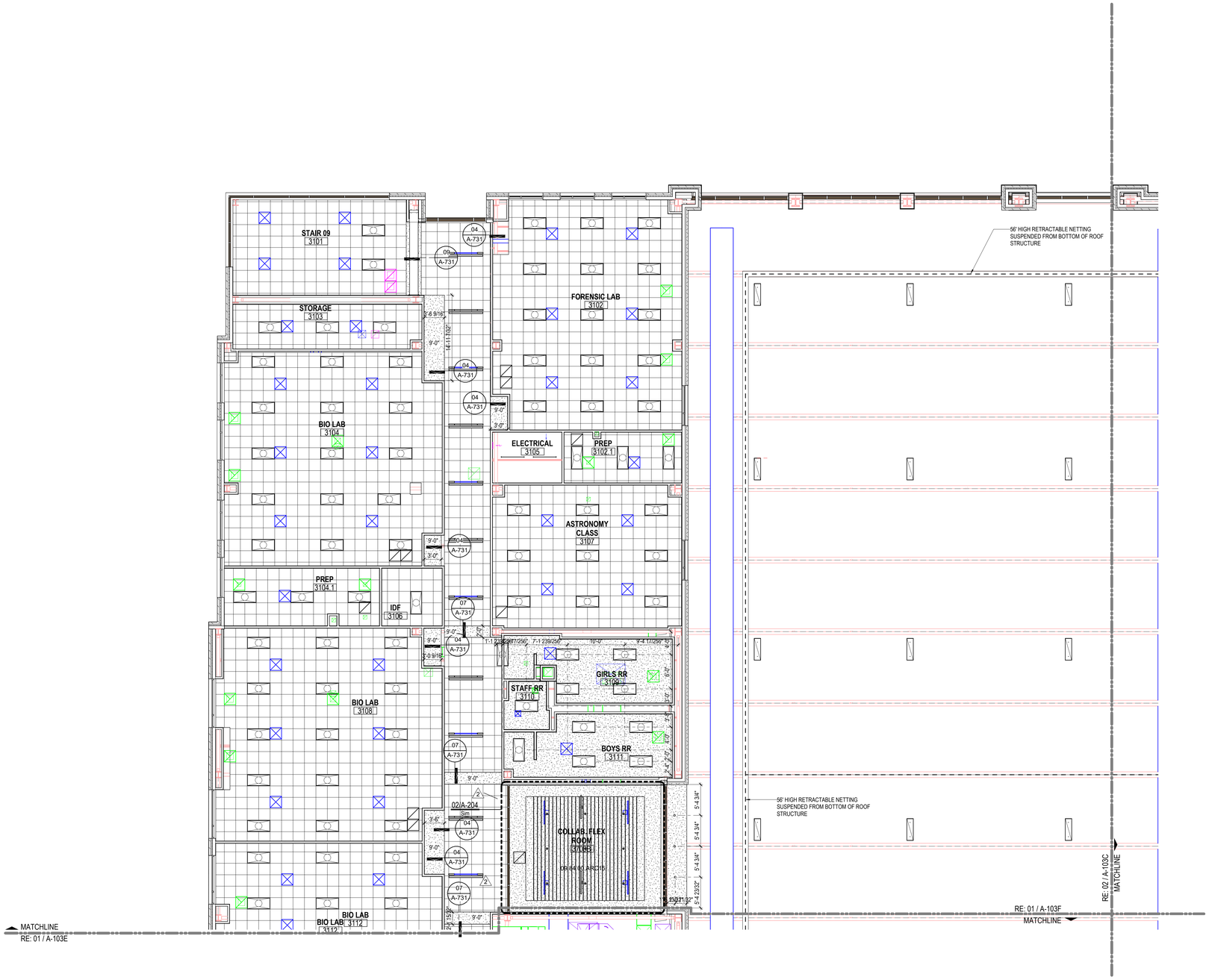
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG BAFFLES



01 LEVEL 3 - AREA E NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:39:16 PM

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713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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ISSUE FOR PROPOSAL

Galena Park ISD

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KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - AREA E
CEILING PLAN

A-203E

LEVEL 3 - AREA F CEILING PLAN
A-203F
FOR BLUEBEAM LABELING/DOOR:

0"
1"

GENERAL CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
2. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCHITECTURAL CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
3. ONLY CEILING MOUNTED FIXTURES AND EQUIPMENT IS SHOWN ON ARCHITECTURAL CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
4. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
5. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE-RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
7. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE.
8. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS. THESE EXTERIOR WALLS SHALL BE DAMPROOFED AND INSULATED.
9. COORDINATE LOCATION OF ALL LIGHT FIXTURES, EXIT SIGNS, GRILLES, AND SPEAKERS WITH MEPT DRAWINGS.
10. REFER TO MEP FOR ALL MECHANICAL ROOM LIGHTING AND ANY FIXTURES NOT SHOWN ON ARCHITECTURAL RCP.
11. PAINT ALL DUCTWORK, CONDUITS, PIPING, GYP BOARD CEILING FURRDOWNS, STRUCTURAL BEAMS, STRUCTURAL JOISTS, STRUCTURAL COLUMNS, METAL ROOF DECK, AND OTHER STRUCTURAL MEMBERS - BOTH EXTERIOR AND INTERIOR - WHERE EXPOSED TO VIEW. COORDINATE PAINT COLOR(S) WITH THE ARCHITECT.
12. LIGHTING FIXTURES TO BE CENTERED AND SPACED EQUALLY UNLESS NOTED OTHERWISE.
13. CEILINGS AT ALL SHOWERS SHALL BE EPOXY PAINTED MOISTURE-RESISTANT GYP BOARD.
14. ALL CEILING HEIGHT ON THIS SHEET, EXCEPT FOR FURR-DOWNS, SHALL BE AT __*10'-0"*__ UNLESS NOTED OTHERWISE.
15. ALL WALL-MOUNTED LIGHT FIXTURES ARE TO BE MOUNTED AT __*7'-0"*__ A.F.F. TO THE BOTTOM OF THE FIXTURE, UNLESS NOTED OTHERWISE.
16. CONDUIT AND / OR RACEWAY MOUNTED TO STRUCTURAL MEMBERS IN EXPOSED-TO-STRUCTURE SPACES SHALL BE INSTALLED TIGHT TO DECK AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. DO NOT INSTALL CONDUIT, RACEWAY, OR WIRING PERPENDICULAR TO JOISTS NEAR BOTTOM CHORD LEVEL.

CEILING FIXTURE LEGEND

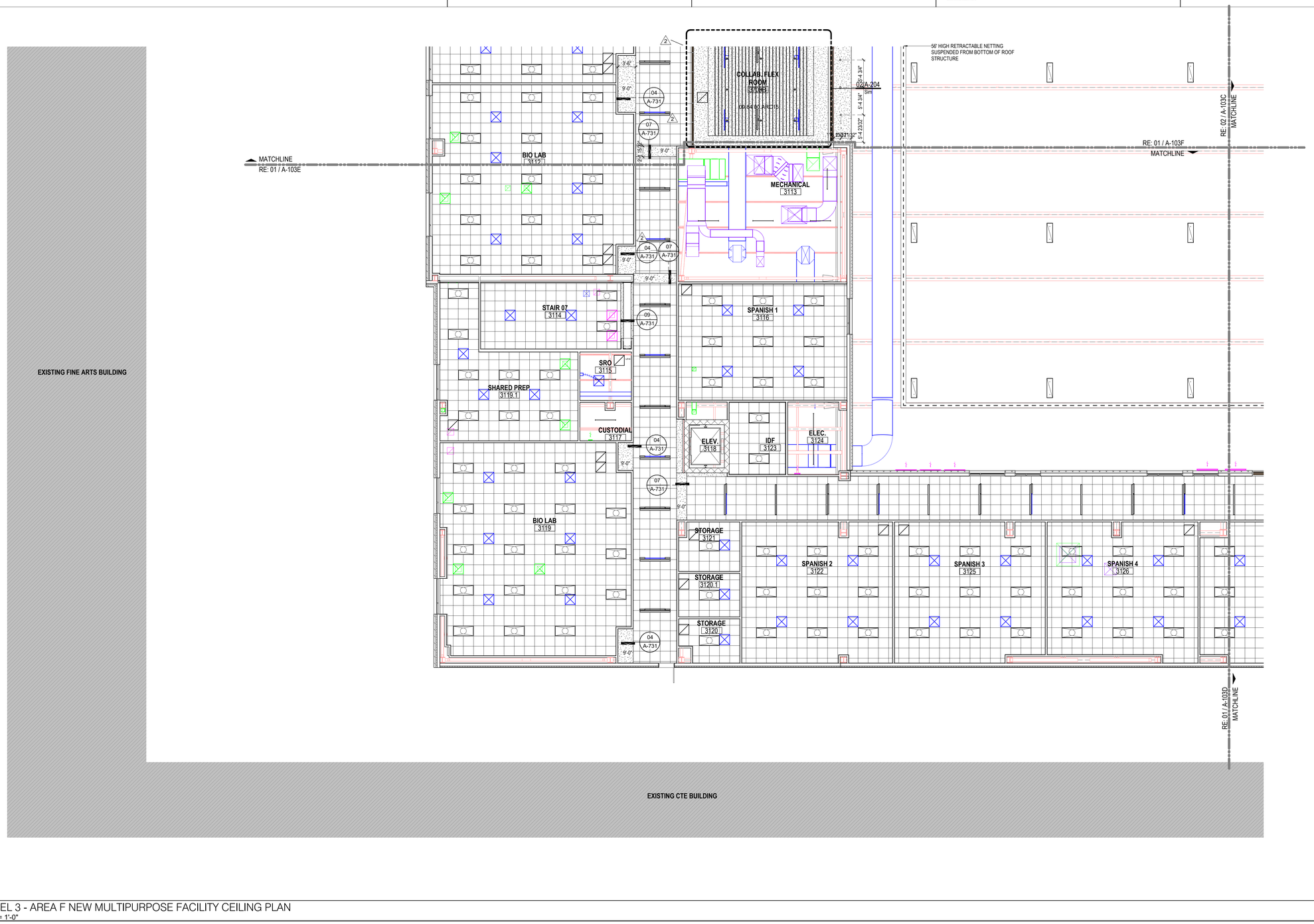
- 2' x 2' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 2' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- 1' x 4' RECESSED LIGHT FIXTURE *RE: ELECTRICAL*
- SUPPLY AIR CEILING DIFFUSER *RE: MECHANICAL*
- RETURN AIR GRILLE / REGISTER *RE: MECHANICAL*
- EXHAUST GRILLE / REGISTER *RE: MECHANICAL*
- 4" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 6" RECESSED CAN LIGHT *RE: ELECTRICAL*
- 1' X 4' PENDANT LIGHT FIXTURE *RE: ELECTRICAL*
- ARC15 SUSPENDED BAFFLE *RE: SPECS*
- 96" SUSPENDED BAFFLE
- 96" SUSPENDED BAFFLE LIT *RE: ELECTRICAL*
- PROJECTOR

CEILING MATERIALS LEGEND

- **09 51 00.ACT1** ACOUSTICAL CEILING PANEL, TYPE 1 - STANDARD, 2'x2' GRID
- **09 51 00.ACT2** ACOUSTICAL CEILING PANEL, TYPE 2 - VINYL FACED, 2'X2' GRID
- **09 51 00.ACT3** ACOUSTICAL CEILING PANEL, TYPE 3 - HIGH NRC, 2'X2' GRID
- **09 21 16.GCX** GYPSUM CEILING BOARD, 5/8" TYPE X, NON-RATED
- **09 24 00.PSD** CEMENT PLASTER SOFFIT - DASH FINISH
- **09 21 16.GMS** GYPSUM CEILING BOARD, MOISTURE AND MOLD RESISTANT 5/8" TYPE X, NON-RATED
- **09 84 00.ARC14** TECTUM CEILING PANELS, TYPE 14 - HIGH NRC
- **07 42 13.SFT1** METAL SOFFIT PANEL SYSTEM
- **09 54 26.WCS#** WOOD CEILING SYSTEM

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC15	ACOUSTIC ROOM COMPONENT TYPE 15 - CEILING-HUNG BAFFLES



01 LEVEL 3 - AREA F NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:39:20 PM

PBK
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TX FIRM: BR 1608
HOUSTON, TX
713-865-6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

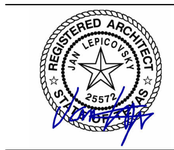
1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

F

KEY PLAN
NORTH: PLAN TRUE



CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

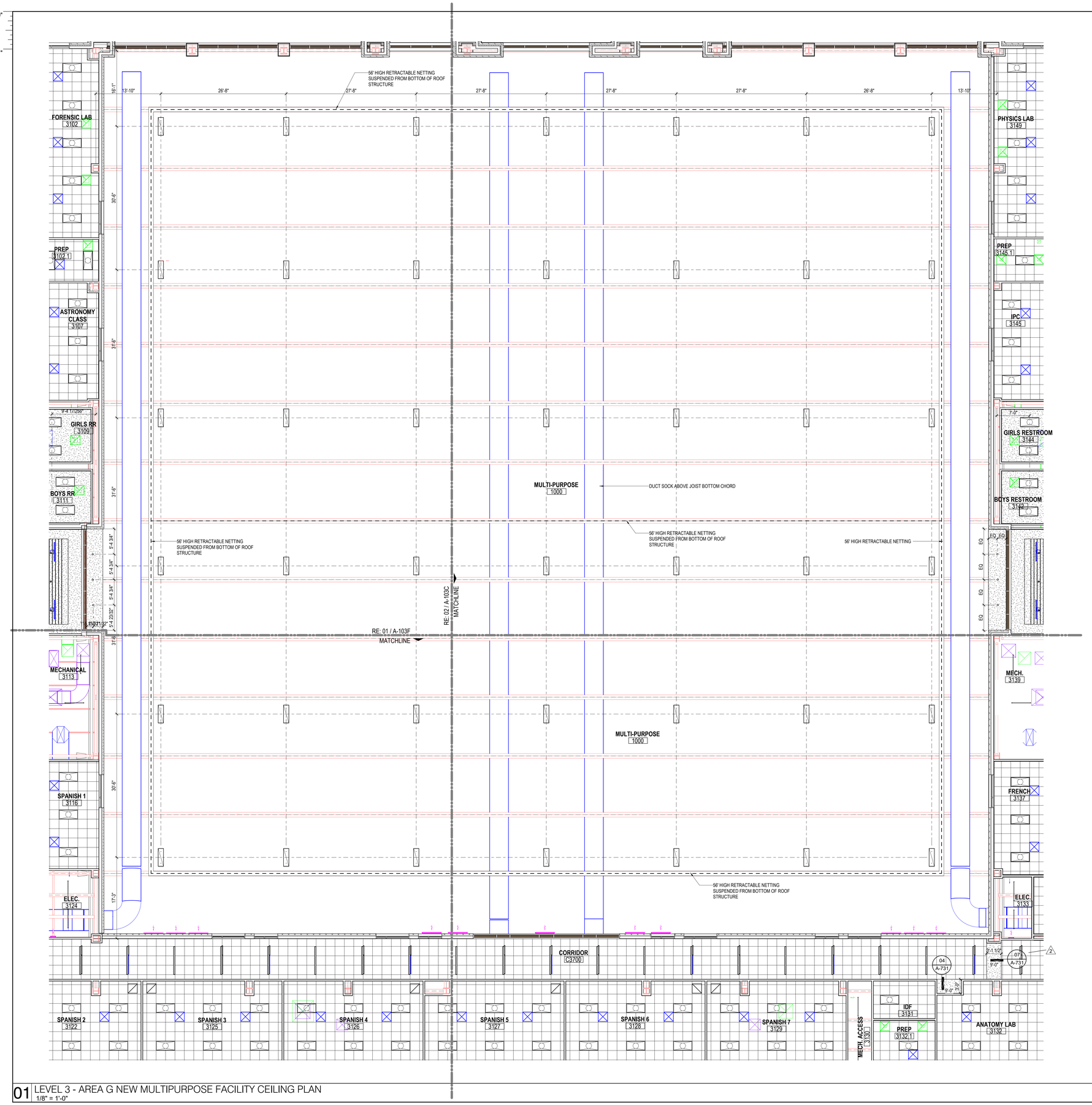
CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - AREA F CEILING PLAN

A-203F

LEVEL 3 - AREA G CEILING PLAN
A-203G
FOR BLUEBEAM LABELING/DOOR:

0"
1"



01 LEVEL 3 - AREA G NEW MULTIPURPOSE FACILITY CEILING PLAN
1/8" = 1'-0"

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NUMBER	DESCRIPTION

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

G

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT JAN LEPICOVSKY 25572 STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: Checker
DRAWN BY: Author

LEVEL 3 - AREA G CEILING PLAN

A-203G

Plot Stamp:
1/8/2026 1:39:25 PM

ENLARGED FLOOR PLANS
A-403

FOR BLUEBEAM LABELING/OCR:

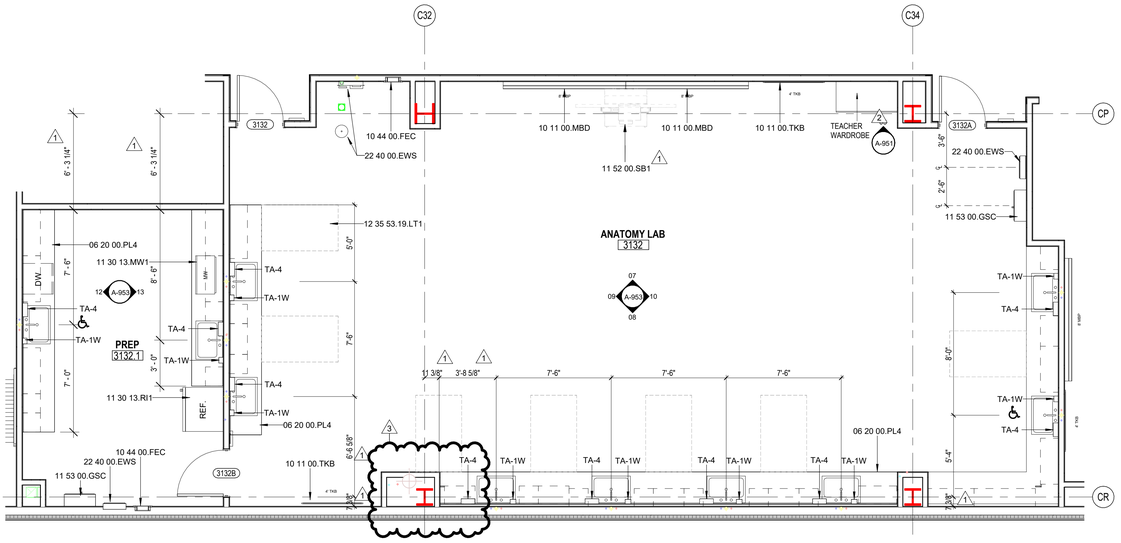
0"
1"

GENERAL ARCH PLAN NOTES

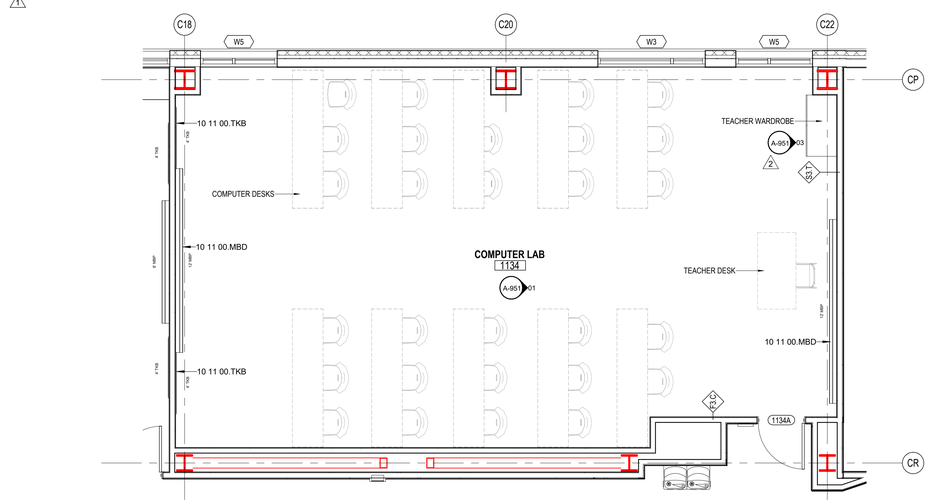
1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE.
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
8. REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3, U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE F3.C, U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
12. PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
16. COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
19. COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
20. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
21. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
22. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.
23. ALL EXTERIOR WINDOWS TO GET SOLID SURFACE WINDOW STOOLS. RE: STOREFRONT SILL DETAILS. 2

KEYNOTE LEGEND

NUMBER	DESCRIPTION
06 20 00.PL4	PLASTIC LAMINATE, TYPE 4 - [COUNTERTOPS]
10 11 00.MBD	12' MARKERBOARD
10 11 00.TKB	TACKBOARD
10 44 00.FEC	FIRE EXTINGUISHER CABINET
11 30 13.MW1	[COUNTERTOP] MICROWAVE
11 30 13.RI1	
11 52 00.SB1	SMARTBOARD (OFOI)
11 53 00.GSC	
12 35 53.19.LT1	LABORATORY TABLE, TYPE 1 (OFOI)
22 40 00.EWS	EMERGENCY EYEWASH AND SHOWER, REFER TO PLUMBING
TA-1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL
TA-4	PAPER TOWEL DISPENSER, TYPICAL



04 LEVEL 3 - AREA D FLOOR PLAN - ANATOMY LAB 3132
1/4" = 1'-0"



03 COMPUTER LAB - 1134
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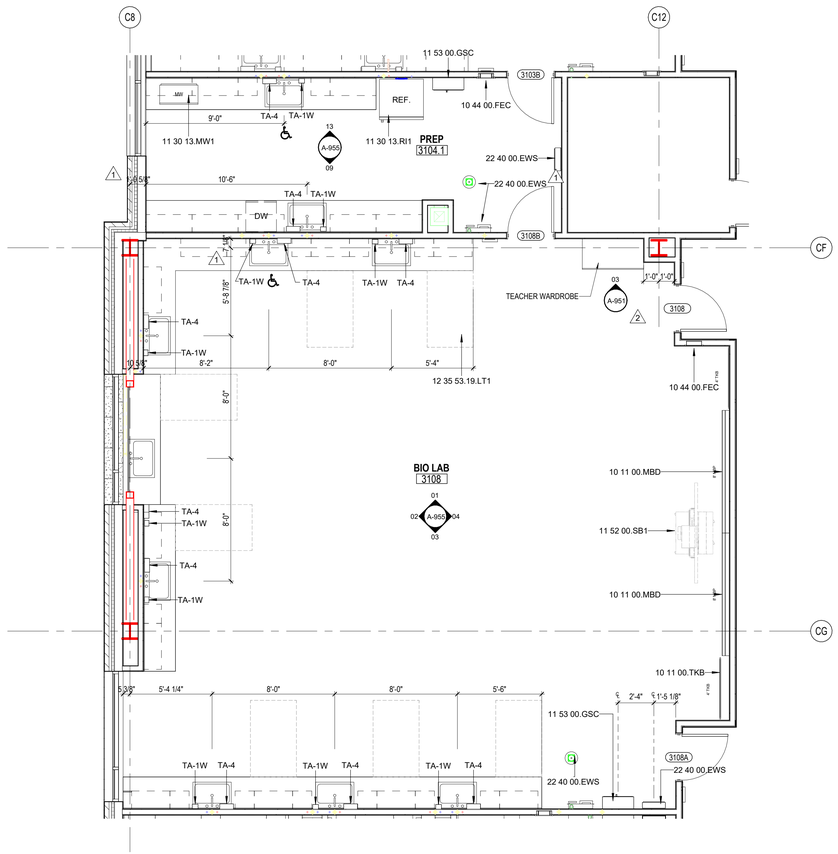
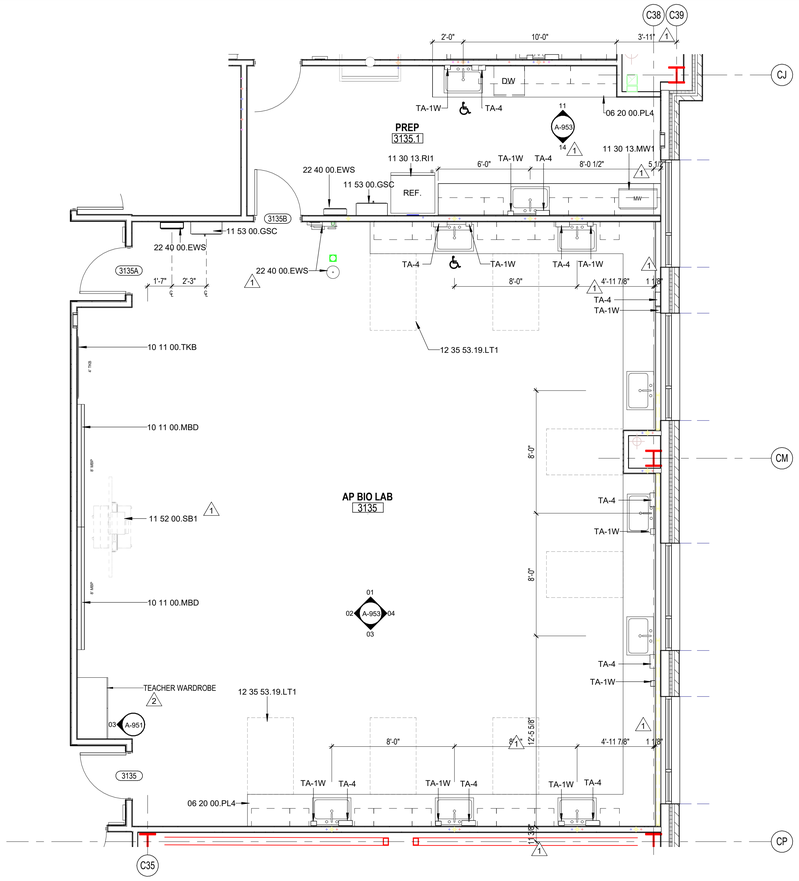


02 LEVEL 3 - AREA E FLOOR PLAN - BIO LAB 3108
1/4" = 1'-0"



01 LEVEL 3 - AREA D FLOOR PLAN - AP BIO LAB 3135
1/4" = 1'-0"

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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NORTH: PLAN TRUE

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DRAWING HISTORY

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1	ADD 01	2025/12/11
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

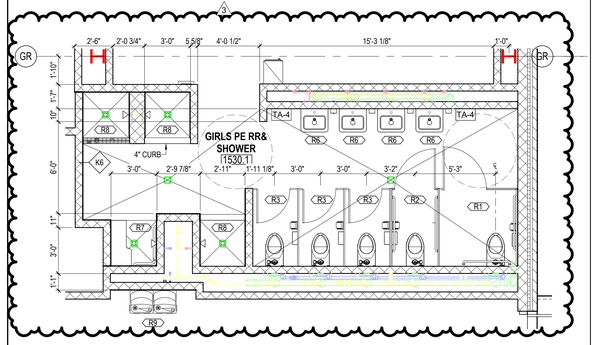
ENLARGED FLOOR PLANS

A-403

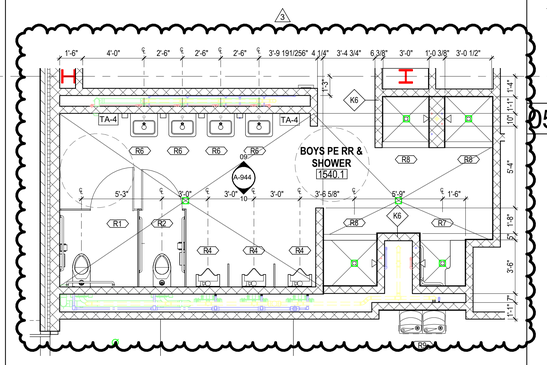
Plot Stamp:
1/8/2026 1:39:31 PM

ENLARGED TOILET PLANS
A-406
FOR BLUEBEAM LABELING/DOOR:

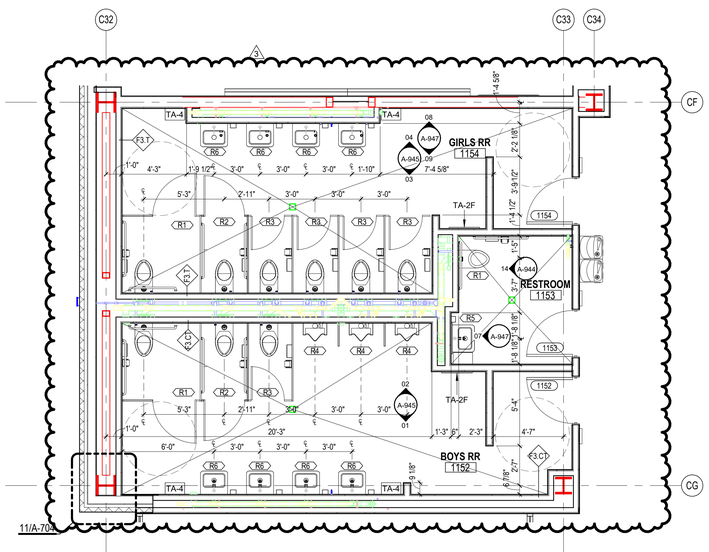
0"
1"



04 ENLARGED GIRLS RESTROOM & SHOWERS
1/4" = 1'-0"



03 ENLARGED BOYS RESTROOM & SHOWERS
1/4" = 1'-0"



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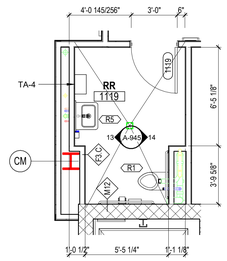
1/4" = 1'-0"



06 ENLARGED RESTROOM 01
1/4" = 1'-0"

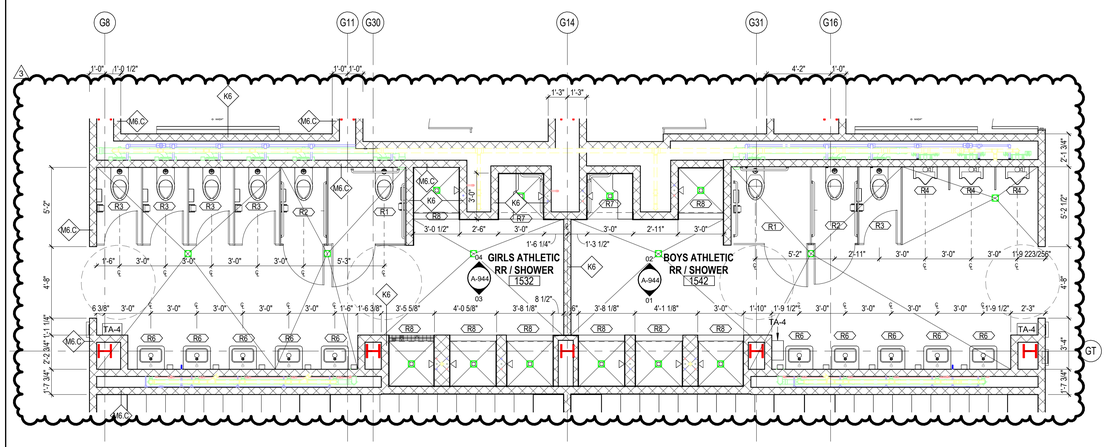
KEYNOTE LEGEND

NUMBER	DESCRIPTION
10.51.26.LBC	LOCKER BENCH, 18"D X 48"W
TA-2F	FULL-LENGTH MIRROR
TA-4	PAPER TOWEL DISPENSER, TYPICAL

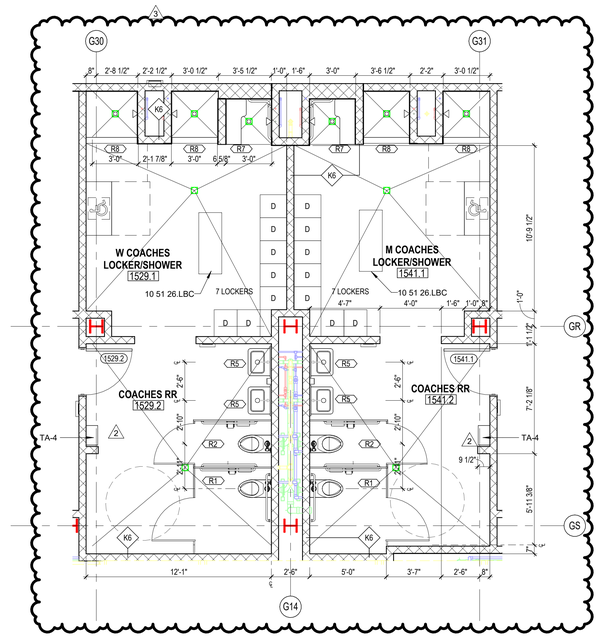
TOILET ACCESSORIES

LABEL	DESCRIPTION	NOTES
TA1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL , OFCI	
TA2	LAVATORY MIRROR, TYPICAL	NOTE 5
TA2F	FULL-LENGTH MIRROR	
TA3	TOILET PAPER DISPENSER, TYPICAL , OFCI	
TA4	PAPER TOWEL DISPENSER, TYPICAL , OFCI	
TA5	GRAB BARS, AT WHEELCHAIR ACCESSIBLE WATERCLOSET,	
TA6	SANITARY NAPKIN/TAMPON VENDOR, TYPICAL	
TA7	SANITARY NAPKIN DISPOSAL, TYPICAL	
TA8	SHELF WITH MOP AND BROOM HOLDERS AND HOOKS, TYPICAL	
TA9	GRAB BARS, ACCESSIBLE SHOWER, TYPICAL	
TA10A	FOLDING BENCH, ADULT HEIGHT	
TA11	CLOTHING HOOK, TYPICAL	NOTE 6
TA12	SHOWER CURTAINS, RODS AND HOOKS, TYPICAL	
TA15	GRAB BARS, AT AMBULATORY WATERCLOSET	
TA16C	BABY CHANGING STATION	
TA16A	ADULT CHANGING STATION	
TA17R	TRASH RECEPTACLE, RECESSED	
TA17U	TRASH RECEPTACLE, UNDERCOUNTER	
TA18	VERTICAL GRAB BAR (AT ACCESSIBLE ICC A117.1 TOILETS)	
TA19	WATERCLOSET SEAT COVER DISPENSER	
TA20	FOLDING UTILITY SHELF	

NOTES:
1. ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED U.N.O.
2. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
3. VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ALL APPLICABLE ACCESSIBILITY REQUIREMENTS.
4. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE, VERIFY ALL PATTERNS WITH ARCHITECT.
5. ALIGN MIRROR ON CENTER OF LAVATORY.
6. ONE (1) HOOK SHALL BE INSTALLED INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS AND ONE HOOK AT EACH SHOWER.
7. ALL SHOWERS WALLS TO RECEIVE TILE FINISH TO CEILING. DIMENSIONS AT SHOWER WALLS ARE TO FACE OF TILE.



01 ENLARGED RESTROOM & SHOWERS
1/4" = 1'-0"



02 ENLARGED COACHES RESTROOM & SHOWERS
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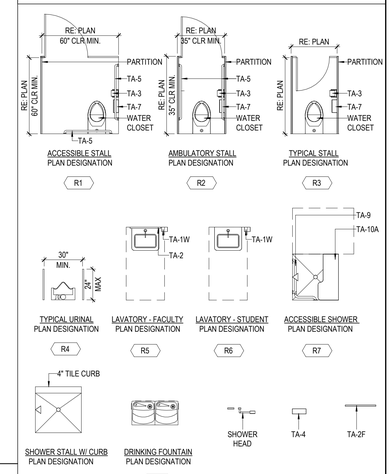
ENLARGED TOILET PLAN LEGEND



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713-865-0008

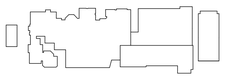
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN = TRUE



CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

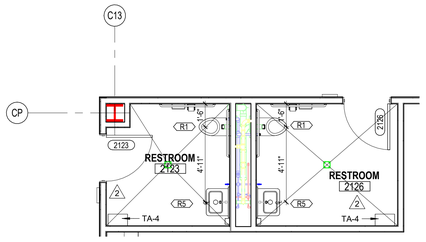
ENLARGED TOILET PLANS

A-406

Plot Stamp:
1/8/2026 1:39:41 PM

ENLARGED TOILET PLANS
A-407
FOR BLUEBEAM LABELING/DOOR:

0"
1"



08 ENLARGED RESTROOMS 04
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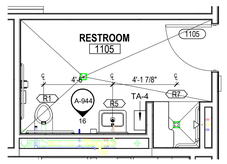

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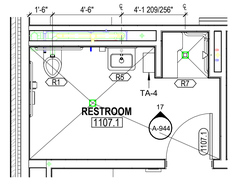
1/4" = 1'-0"



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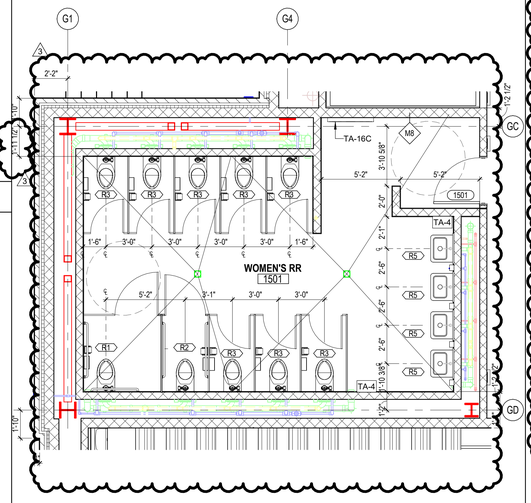

05 ENLARGED WOMEN'S RESTROOM
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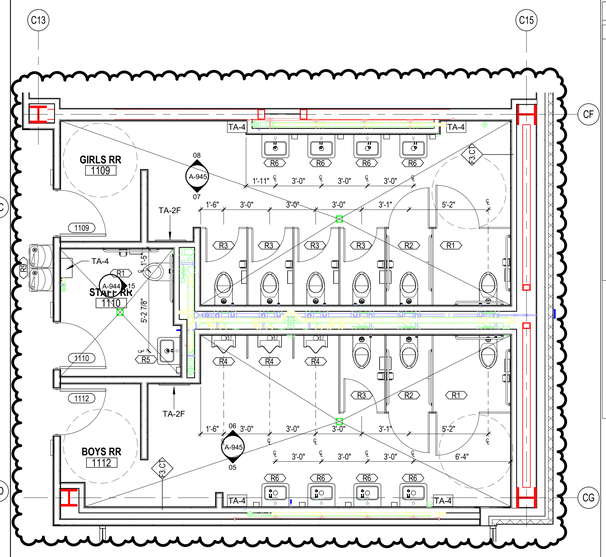

04 ENLARGED RR 03
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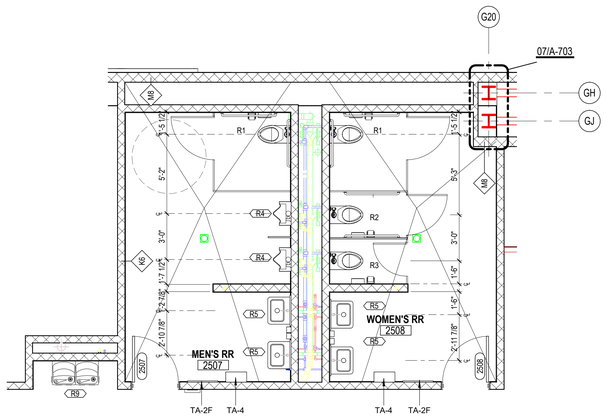
1109, 1110, 1111, 2109, 2110, 2111, 3109, 3110, & 3111



03 ENLARGED WOMEN'S & MEN'S RESTROOM
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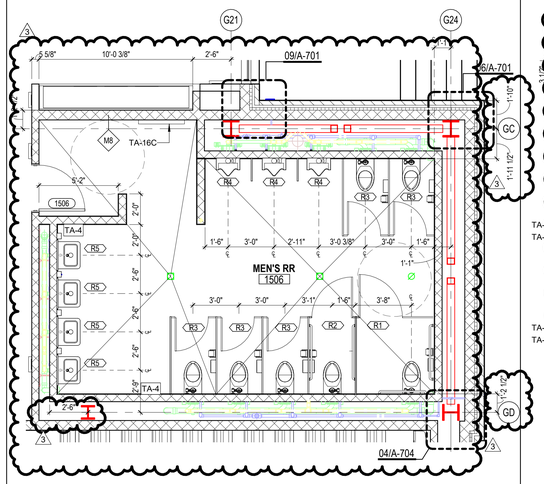

02 ENLARGED MEN'S RESTROOM
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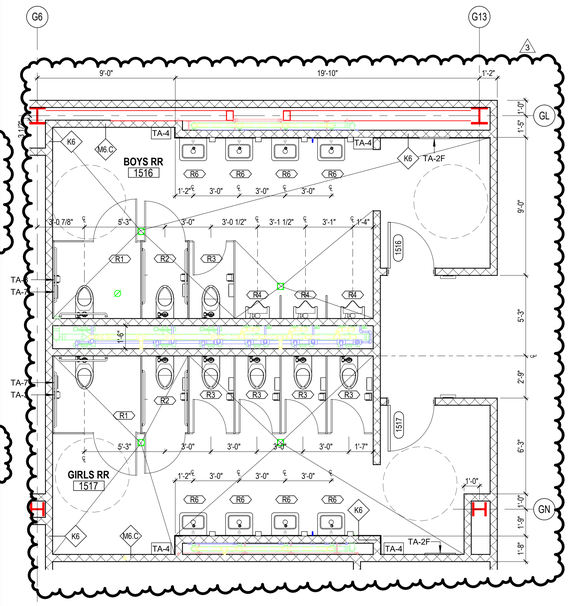


01 ENLARGED RESTROOMS 02
1/4" = 1'-0"

KEYNOTE LEGEND

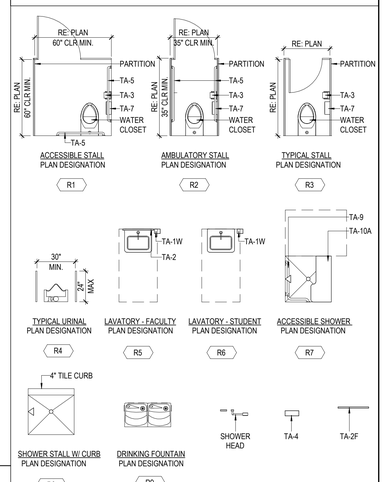
NUMBER	DESCRIPTION
TA-2F	FULL-LENGTH MIRROR
TA-3	TOILET PAPER DISPENSER, TYPICAL
TA-4	PAPER TOWEL DISPENSER, TYPICAL
TA-7	SANITARY NAPKIN DISPOSAL, TYPICAL
TA-16C	BABY CHANGING STATION

TOILET ACCESSORIES

LABEL	DESCRIPTION	NOTES
TA1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL , OFCI	
TA2	LAVATORY MIRROR, TYPICAL	NOTE 5
TA2F	FULL-LENGTH MIRROR	
TA3	TOILET PAPER DISPENSER, TYPICAL , OFCI	
TA4	PAPER TOWEL DISPENSER, TYPICAL , OFCI	
TA5	GRAB BARS, AT WHEELCHAIR ACCESSIBLE WATERCLOSET,	
TA6	SANITARY NAPKIN/TAMPON VENDOR, TYPICAL	
TA7	SANITARY NAPKIN DISPOSAL, TYPICAL	
TA8	SHELF WITH MOP AND BROOM HOLDERS AND HOOKS, TYPICAL	
TA9	GRAB BARS, ACCESSIBLE SHOWER, TYPICAL	
TA10A	FOLDING BENCH, ADULT HEIGHT	
TA11	CLOTHING HOOK, TYPICAL	NOTE 6
TA12	SHOWER CURTAINS, RODS AND HOOKS, TYPICAL	
TA15	GRAB BARS, AT AMBULATORY WATERCLOSET	
TA16C	BABY CHANGING STATION	
TA16A	ADULT CHANGING STATION	
TA17R	TRASH RECEPTACLE, RECESSED	
TA17U	TRASH RECEPTACLE, UNDERCOUNTER	
TA18	VERTICAL GRAB BAR (AT ACCESSIBLE ICC A117.1 TOILETS)	
TA19	WATERCLOSET SEAT COVER DISPENSER	
TA20	FOLDING UTILITY SHELF	

NOTES:
1. ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED U.N.O.
2. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
3. VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ALL APPLICABLE ACCESSIBILITY REQUIREMENTS.
4. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE, VERIFY ALL PATTERNS WITH ARCHITECT.
5. ALIGN MIRROR ON CENTER OF LAVATORY.
6. ONE (1) HOOK SHALL BE INSTALLED INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS AND ONE HOOK AT EACH SHOWER.
7. ALL SHOWERS WALLS TO RECEIVE TILE FINISH TO CEILING. DIMENSIONS AT SHOWER WALLS ARE TO FACE OF TILE.

ENLARGED TOILET PLAN LEGEND



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NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

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CHECKED BY: Checker
DRAWN BY: Author

ENLARGED TOILET PLANS

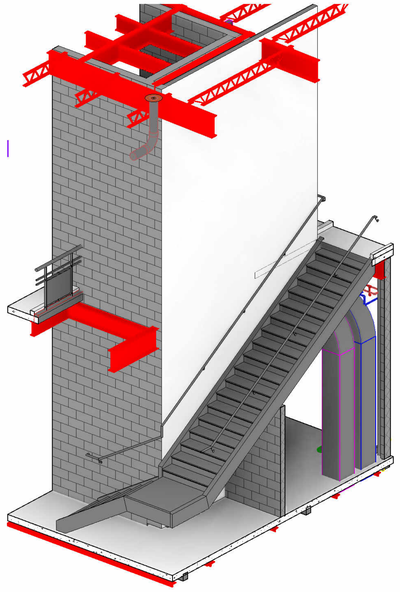
A-407

Plot Stamp:
1/8/2026 1:39:57 PM

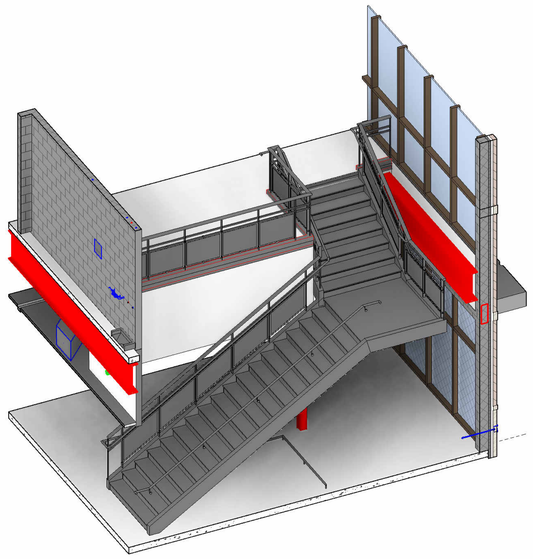
ENLARGED STAIR PLANS AND SECTIONS
A-420

FOR BLUEBEAM LABELING/DOOR:

0"
1"



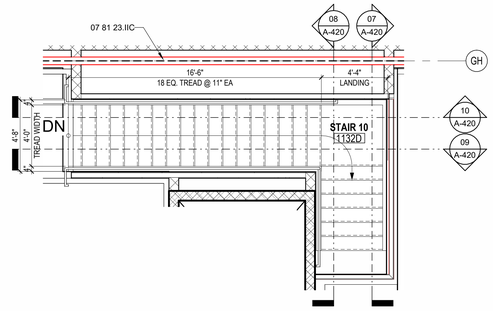
13 ISOMETRIC STAIR 01 - Area B



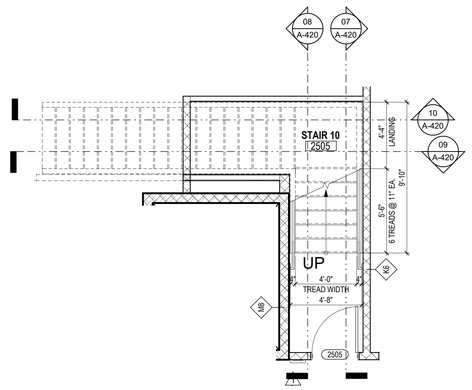
12 ISOMETRIC STAIR 01 - Area B

KEYNOTE LEGEND

NUMBER	DESCRIPTION
05 52 00.HRL	HANDRAIL, 1-1/2" O.D.
05 52 00.MRA	ALUMINUM RAILING SYSTEM
07 81 23.IIC	INTERIOR INTUMESCENT COATING
10 73 16.13.ACS	ALUMINUM CANOPY SYSTEM



14 LEVEL 3 - AREA B FLOOR PLAN - STAIR 10
1/4" = 1'-0"



11 LEVEL 2 - AREA B FLOOR PLAN - STAIR 10
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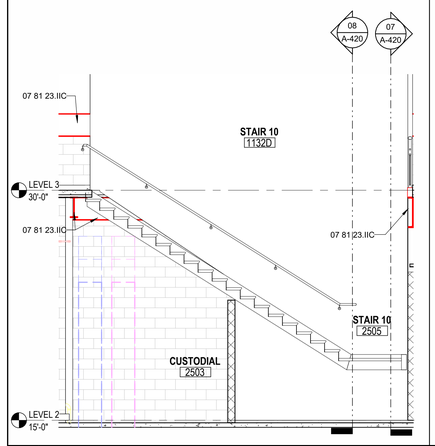
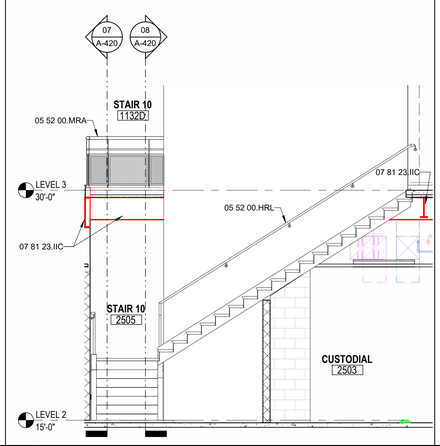


10 STAIR 10 SECTION 04
1/4" = 1'-0"



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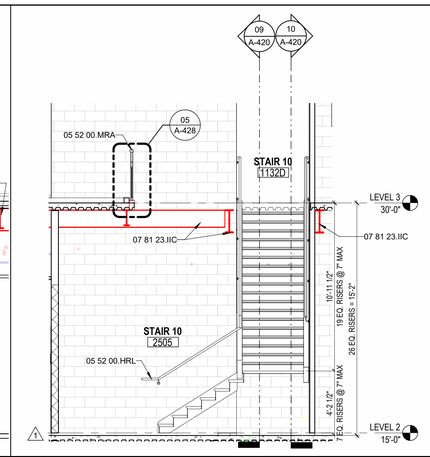
1/4" = 1'-0"



08 STAIR 10 SECTION 02
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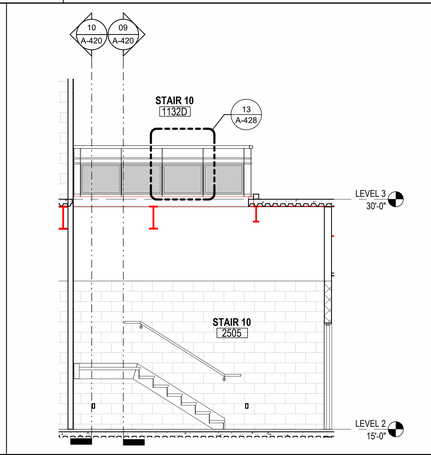

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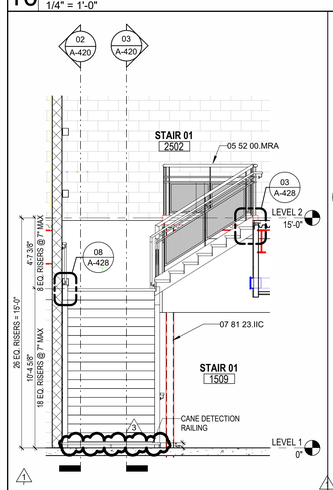

05 STAIR 01 SECTION 04
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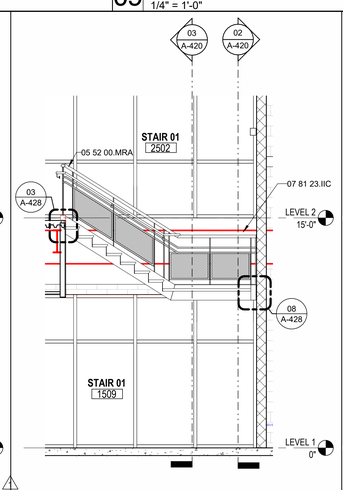

04 STAIR 01 SECTION 03
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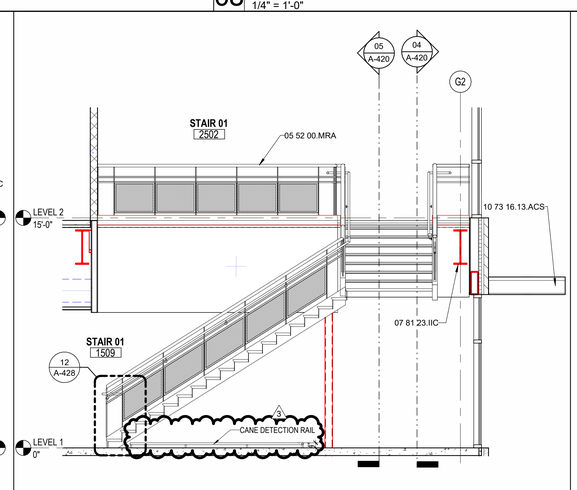

03 STAIR 01 SECTION 02
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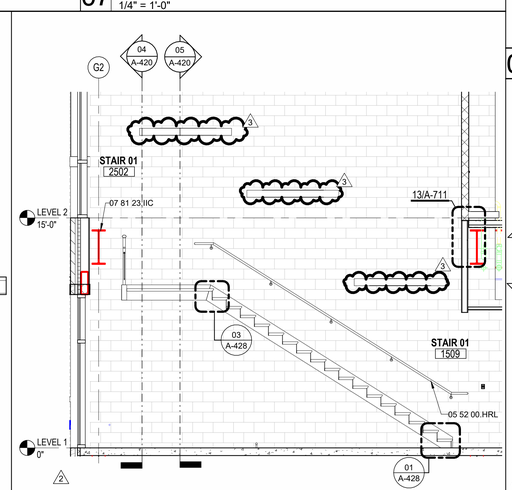

02 STAIR 01 SECTION 01
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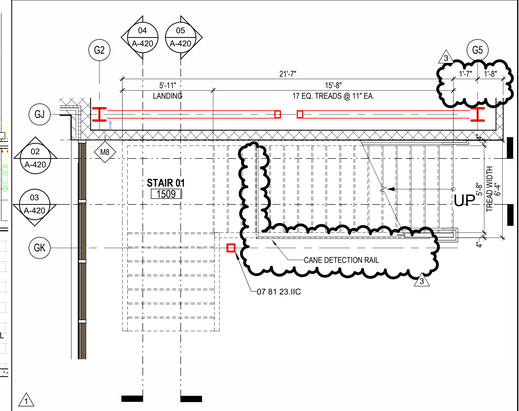
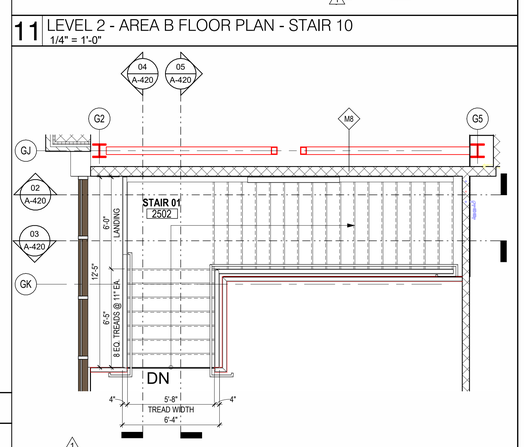


01 LEVEL 1 - AREA B FLOOR PLAN - STAIR 01
1/4" = 1'-0"



06 LEVEL 2 - AREA B FLOOR PLAN - STAIR 01
1/4" = 1'-0"

Plot Stamp:
1/8/2026 1:40:14 PM

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

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HOUSTON, TX
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Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
REGISTERED ARCHITECT
IAN LEPICOVSKY
25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
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CHECKED BY: Checker
DRAWN BY: Author

ENLARGED STAIR PLANS AND SECTIONS

A-420

ENLARGED STAIR PLANS AND SECTIONS
A-421

FOR BLUEBEAM LABELING/DOOR:

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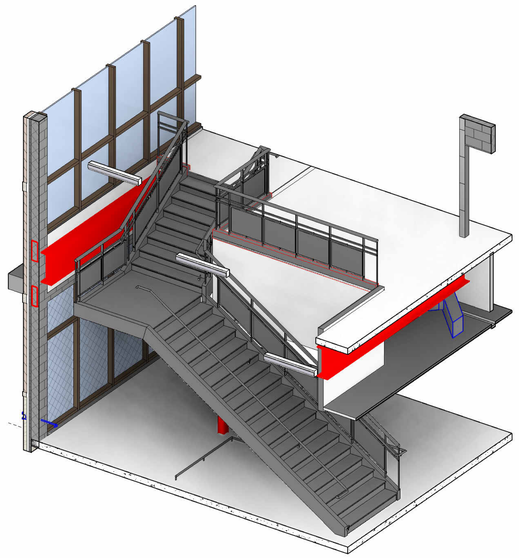
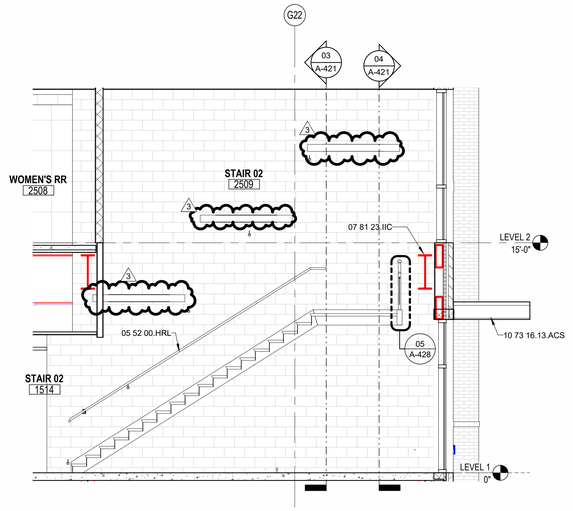


07 ISOMETRIC STAIR 02 - AREA B



06 STAIRS 02 SECTION 04
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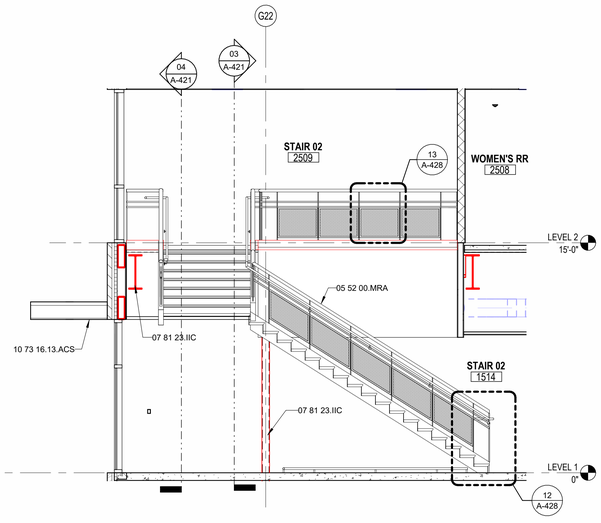
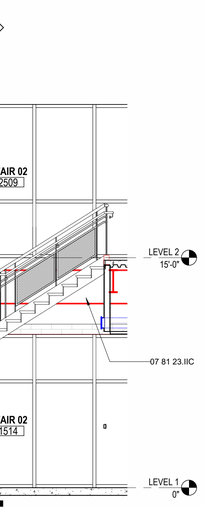


05 STAIRS 02 SECTION 03
1/4" = 1'-0"



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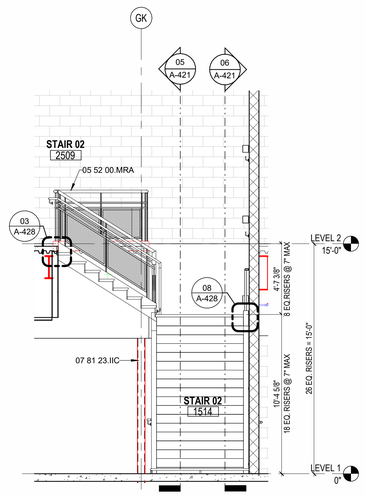

03 STAIR 02 SECTION 01
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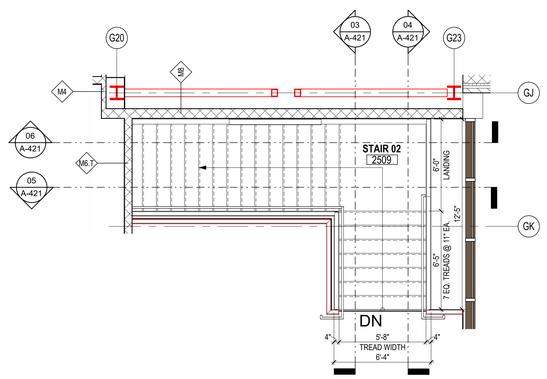
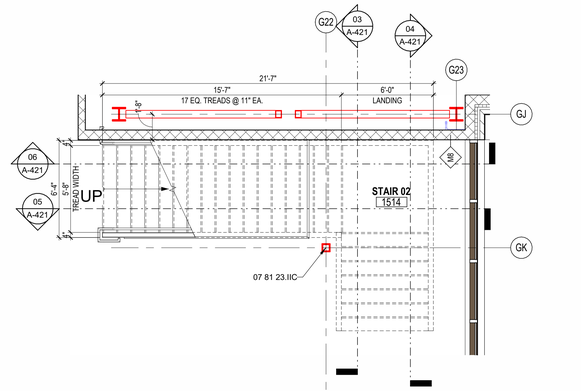


02 LEVEL 2 - AREA B FLOOR PLAN - STAIR 02
1/4" = 1'-0"



01 LEVEL 1 - AREA B FLOOR PLAN - STAIR 02
1/4" = 1'-0"

Plot Stamp:
1/8/2026 1:40:23 PM

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25572
STATE OF TEXAS

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CHECKED BY: Checker

DRAWN BY: Author

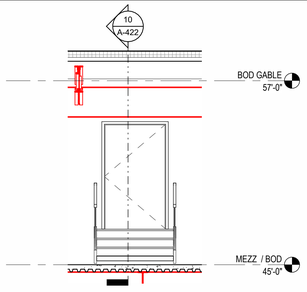
ENLARGED STAIR PLANS AND SECTIONS

A-421

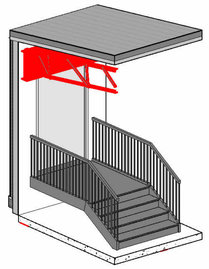
3

ENLARGED STAIR PLANS AND SECTIONS
A-422
FOR BLUEBEAM LABELING/DOOR:

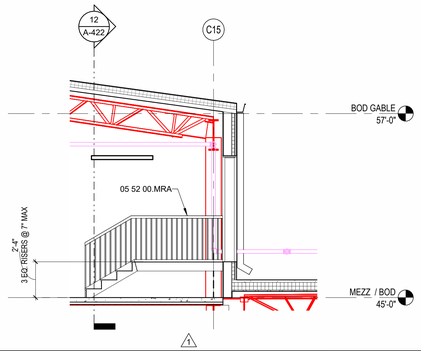
0"
1"



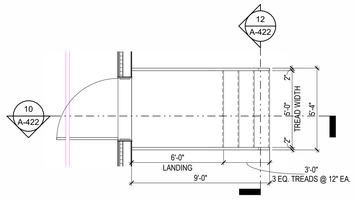
12 STAIR 11 - SECTION 02
1/4" = 1'-0"



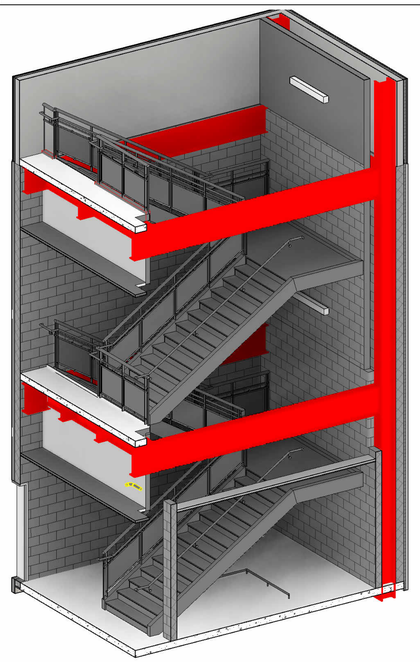
11 ISOMETRIC STAIR 11



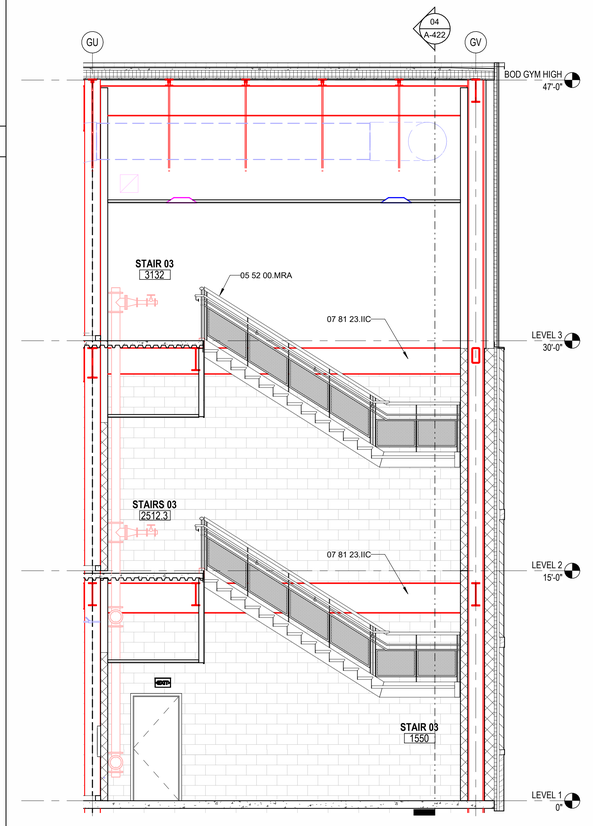
10 STAIR 11 - SECTION 01
1/4" = 1'-0"



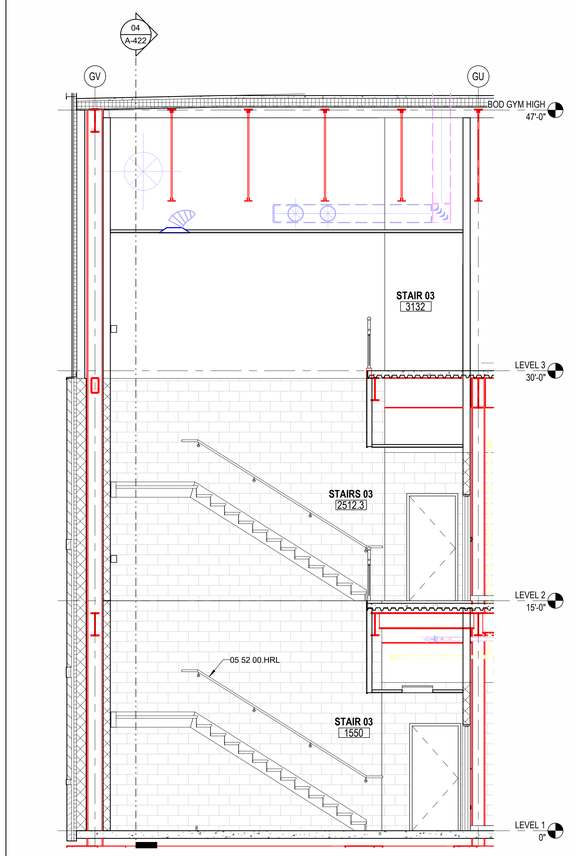
09 MECHANICAL PENTHOUSE FLOOR PLAN - STAIR 11
1/4" = 1'-0"



08 ISOMETRIC STAIR 03 - AREA B

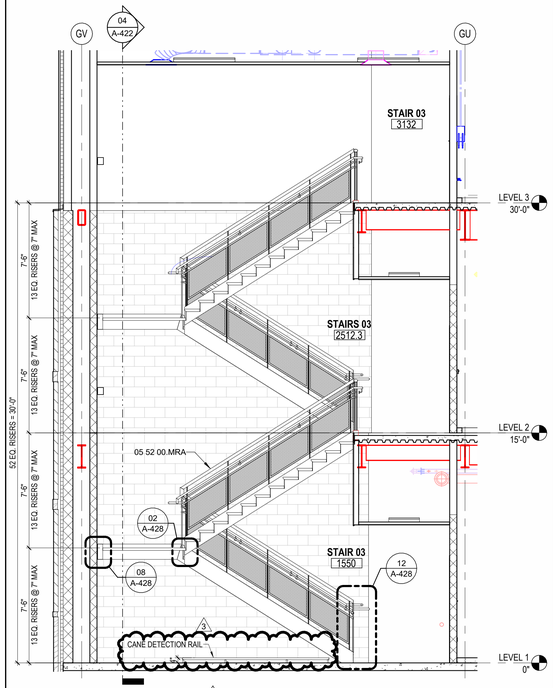


07 STAIR 03 SECTION 04
1/4" = 1'-0"

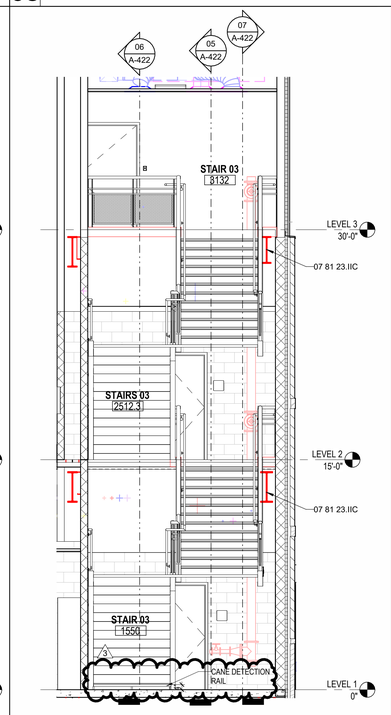


06 STAIR 03 SECTION 03
1/4" = 1'-0"

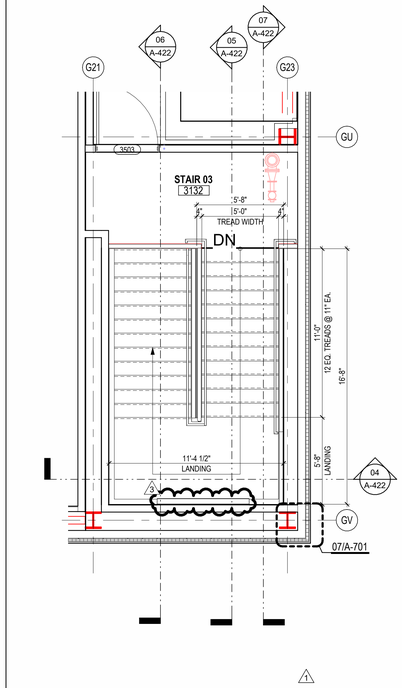
KEYNOTE LEGEND	
NUMBER	**DESCRIPTION**
05 52 00.HRL	HANDRAIL, 1-1/2" O.D.
05 52 00.MRA	ALUMINUM RAILING SYSTEM
07 81 23.IIC	INTERIOR INTUMESCENT COATING



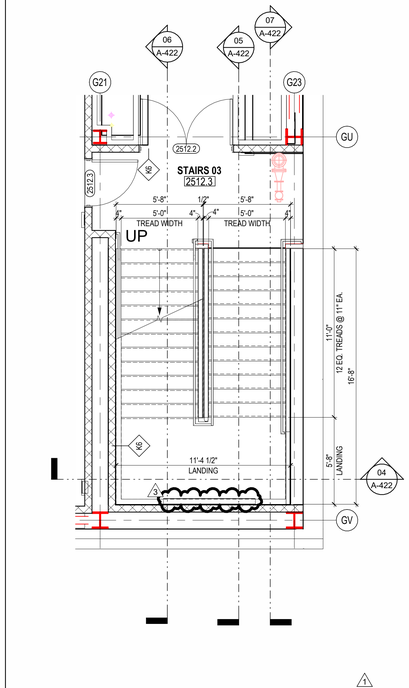
05 STAIR 03 SECTION 01
1/4" = 1'-0"



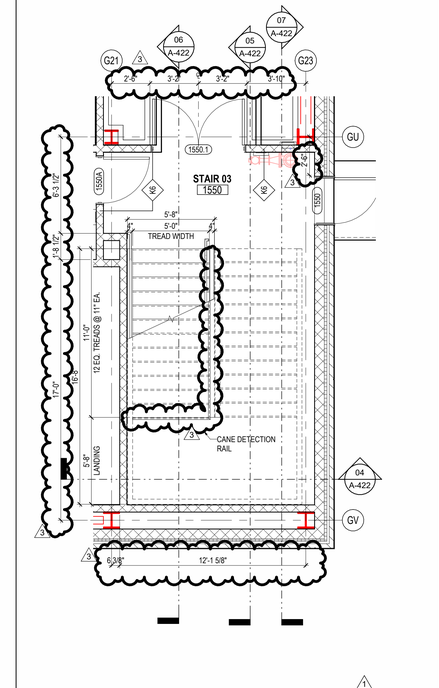
04 STAIR 03 SECTION 02
1/4" = 1'-0"



03 LEVEL 3 - AREA B FLOOR PLAN - STAIR 03
1/4" = 1'-0"



02 LEVEL 2 - AREA B FLOOR PLAN - STAIR 03
1/4" = 1'-0"



01 LEVEL 1 - AREA B FLOOR PLAN - STAIR 03
1/4" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN = TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

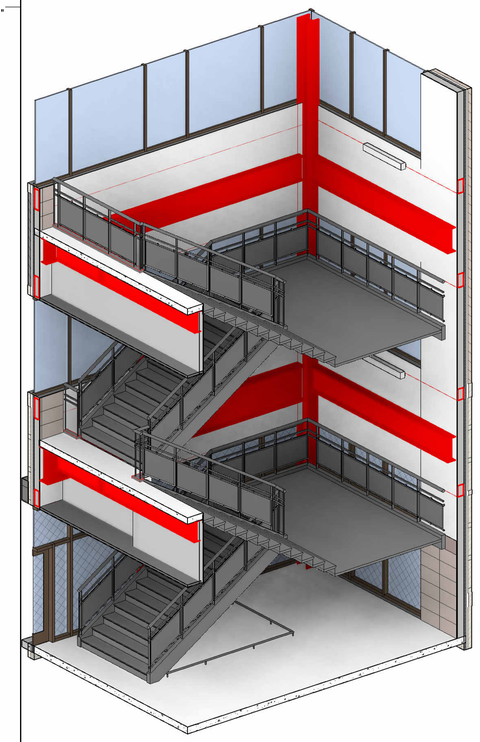
ENLARGED STAIR PLANS AND SECTIONS

A-422

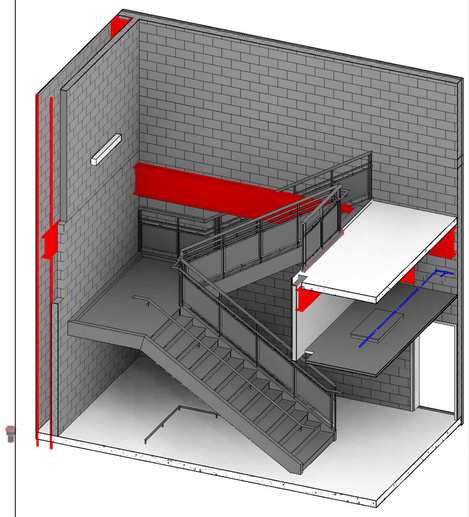
Plot Stamp:
1/8/2026 1:40:43 PM

ENLARGED STAIR PLANS AND SECTIONS
A-423
FOR BLUEBEAM LABELING/DOOR:

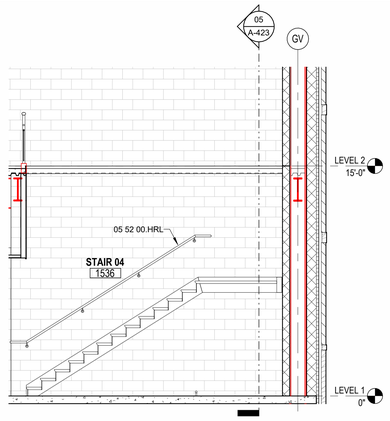
0"
1"



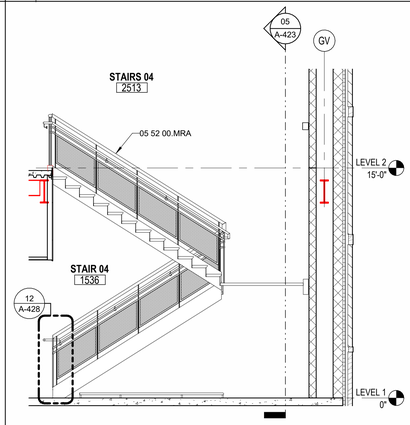
15 ISOMETRIC STAIRS 05 - AREA C



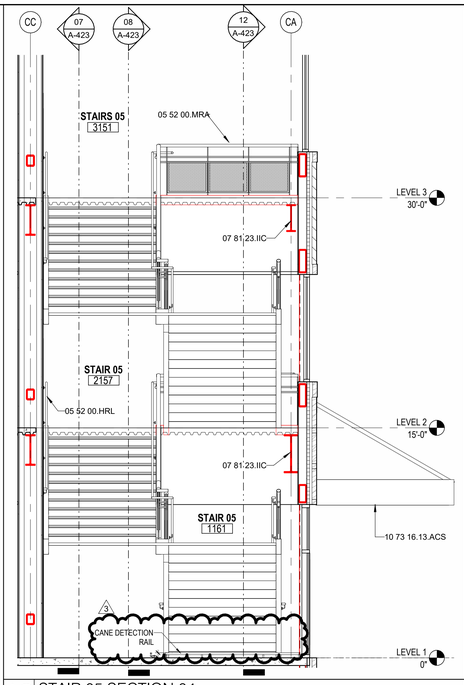
16 ISOMETRIC STAIRS 04 - AREA C



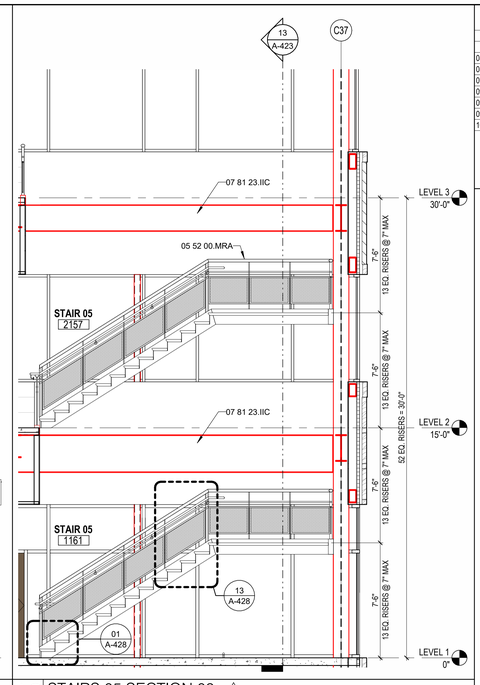
10 STAIR 04 SECTION 04
1/4" = 1'-0"



09 STAIR 04 SECTION 03
1/4" = 1'-0"



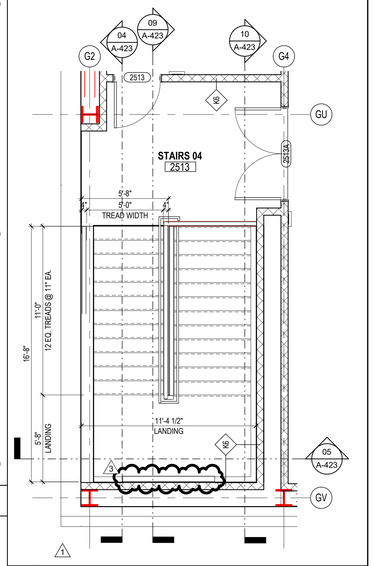
13 STAIR 05 SECTION 04
1/4" = 1'-0"



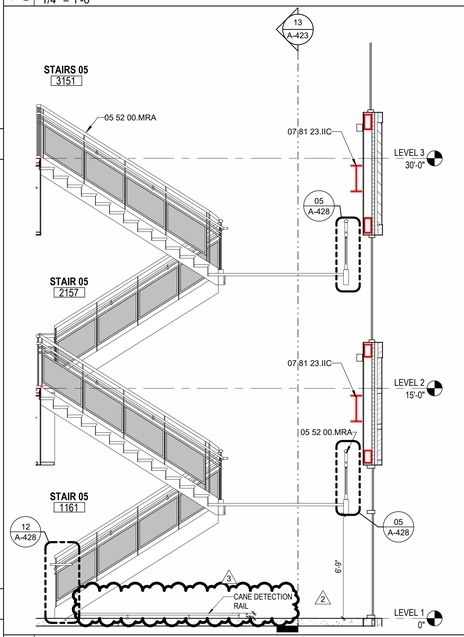
12 STAIRS 05 SECTION 03 ⚠1
1/4" = 1'-0"

KEYNOTE LEGEND

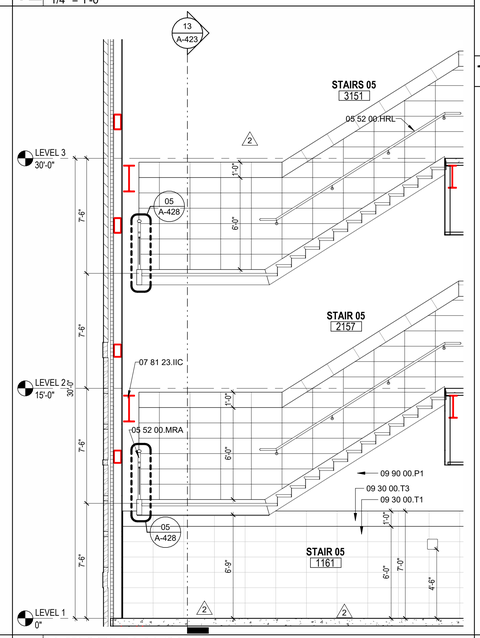
NUMBER	DESCRIPTION
05 52 00.HRL	HANDRAIL, 1-1/2" O.D.
05 52 00.MRA	ALUMINUM RAILING SYSTEM
07 81 23.IIC	INTERIOR INTUMESCENT COATING
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]
09 30 00.T3	TILE TYPE 3 - [WAINSCOT ACCENT TILE]
09 90 00.P1	PAINT TYPE 1 - [FIELD]
10 73 16.13.ACS	ALUMINUM CANOPY SYSTEM



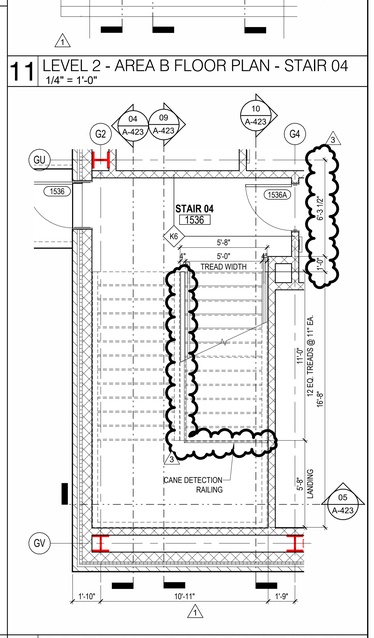
11 LEVEL 2 - AREA B FLOOR PLAN - STAIR 04
1/4" = 1'-0"



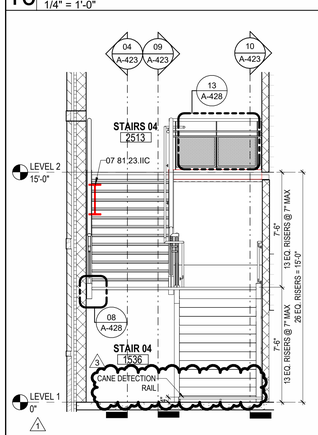
08 STAIRS 05 SECTION 02
1/4" = 1'-0"



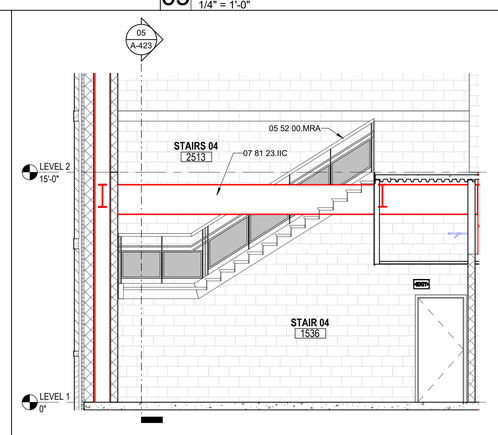
07 STAIRS 05 SECTION 01
1/4" = 1'-0"



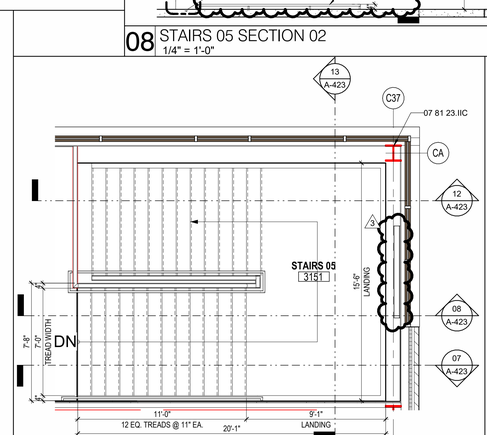
06 LEVEL 1 - AREA B FLOOR PLAN - STAIR 04
1/4" = 1'-0"



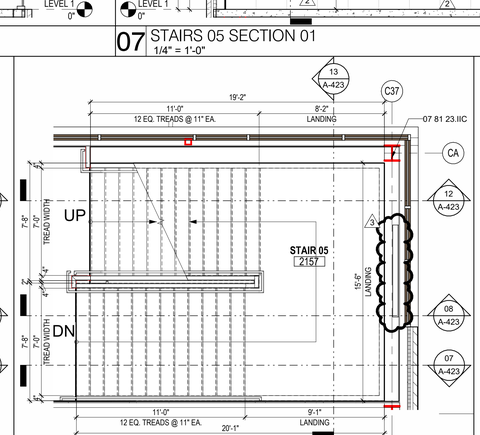
05 STAIR 04 SECTION 02
1/4" = 1'-0"



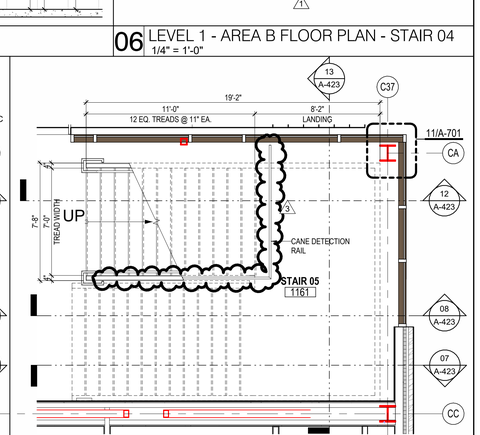
04 STAIR 04 SECTION 01
1/4" = 1'-0"



03 LEVEL 3 - AREA C FLOOR PLAN - STAIR 05
1/4" = 1'-0"



02 LEVEL 2 - AREA C FLOOR PLAN - STAIR 05
1/4" = 1'-0"



01 LEVEL 1 - AREA C FLOOR PLAN - STAIR 05
1/4" = 1'-0"

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

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TX FIRM: BR 1608
HOUSTON, TX
713-865-0008

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JOHN EPICOSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

ENLARGED STAIR PLANS AND SECTIONS

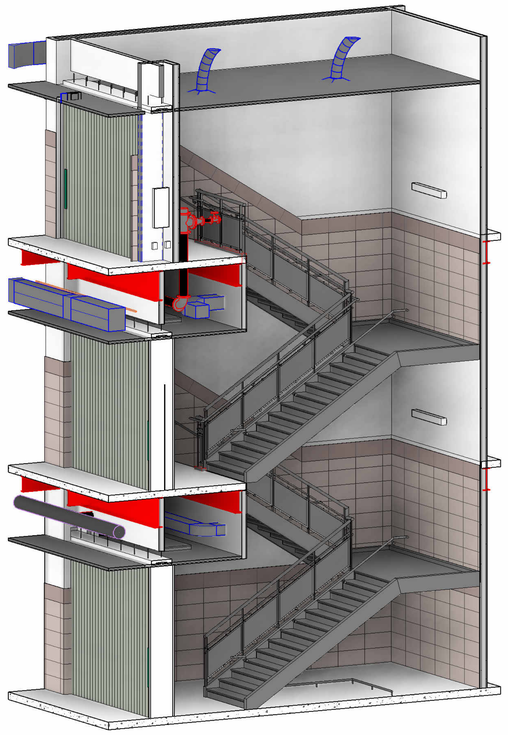
A-423

Plot Stamp:
1/8/2026 1:41:08 PM

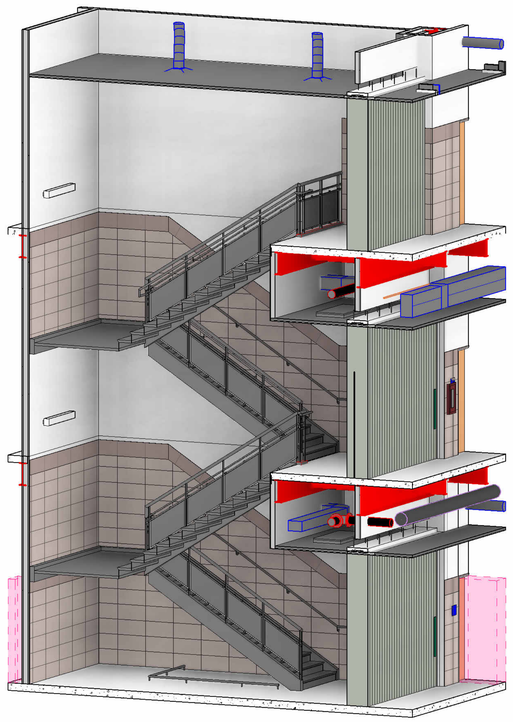
ENLARGED STAIR PLANS AND SECTIONS
A-424

FOR BLUEBEAM LABELING/DOOR:

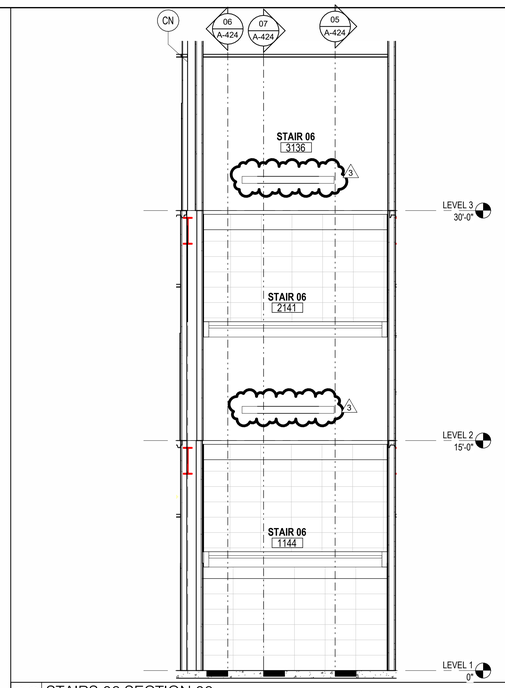
0"
1"



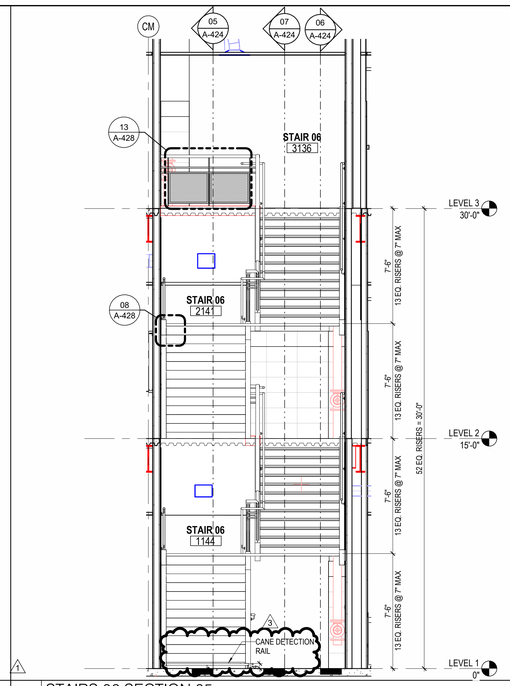
10 ISOMETRIC STAIRS 06 - AREA D



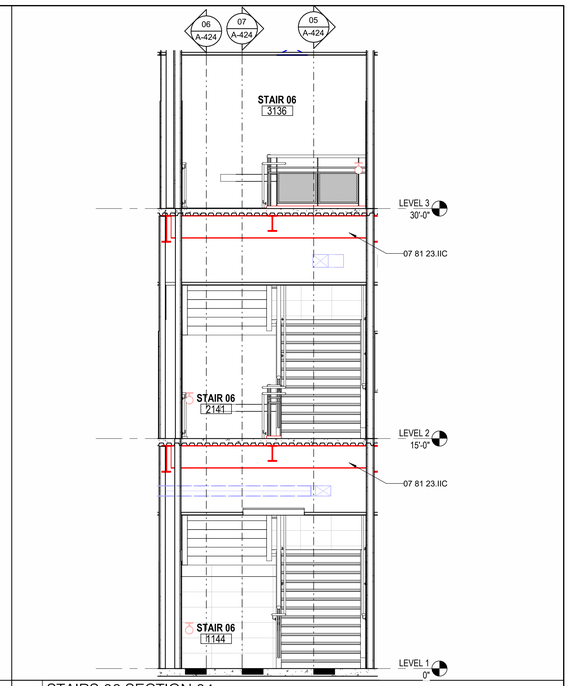
04 ISOMETRIC STAIRS 06 - AREA D



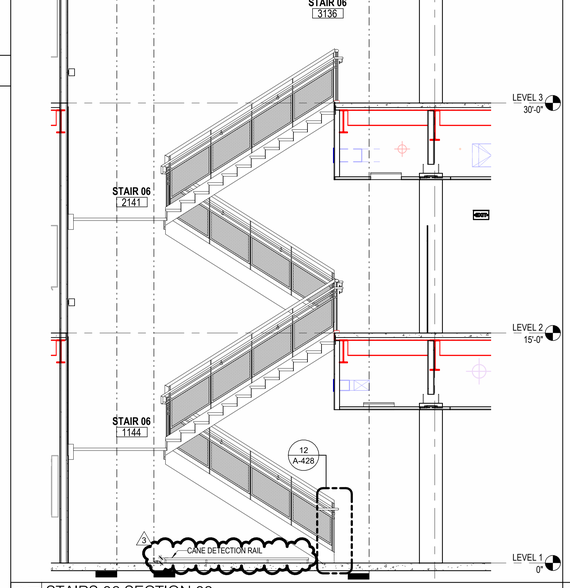
09 STAIRS 06 SECTION 06
1/4" = 1'-0"



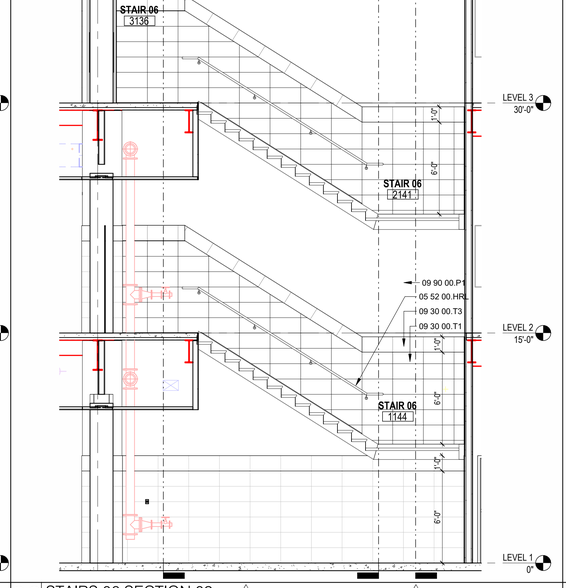
08 STAIRS 06 SECTION 05
1/4" = 1'-0"



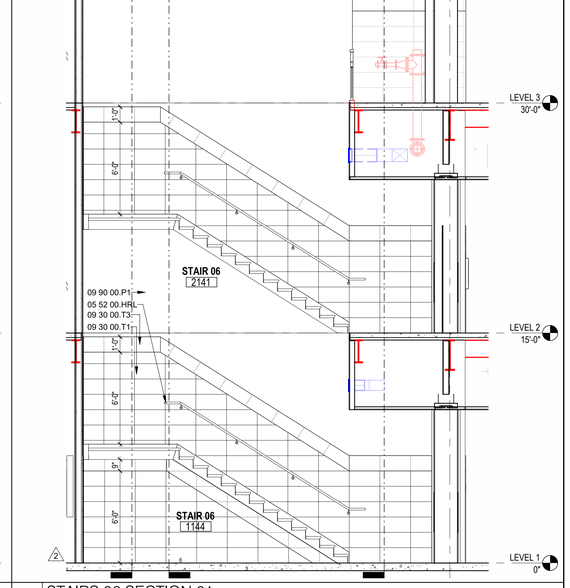
11 STAIRS 06 SECTION 04
1/4" = 1'-0"



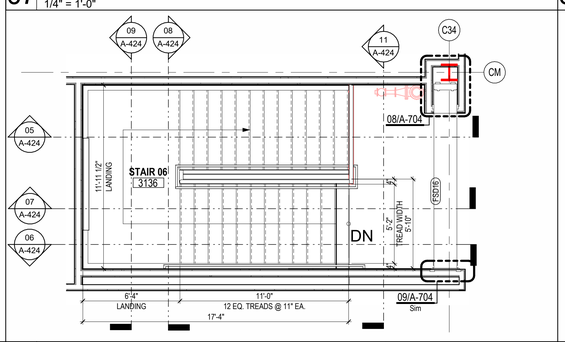
07 STAIRS 06 SECTION 03
1/4" = 1'-0"



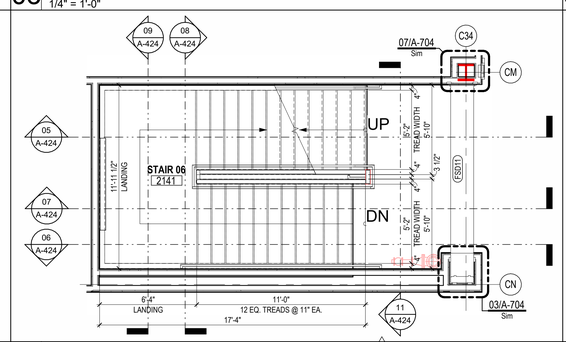
06 STAIRS 06 SECTION 02
1/4" = 1'-0"



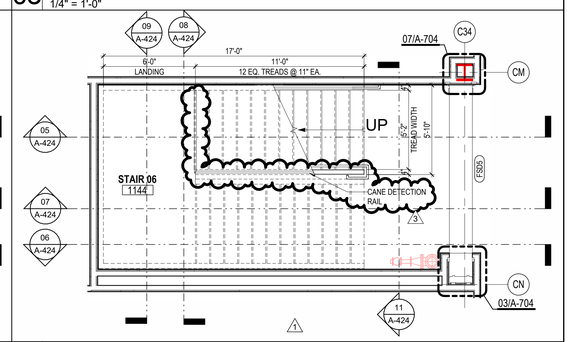
05 STAIRS 06 SECTION 01
1/4" = 1'-0"



03 LEVEL 3 - AREA D FLOOR PLAN - STAIRS 06
1/4" = 1'-0"



02 LEVEL 2 - AREA D FLOOR PLAN - STAIRS 06
1/4" = 1'-0"



01 LEVEL 1 - AREA D FLOOR PLAN - STAIRS 06
1/4" = 1'-0"

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HOUSTON, TX
713-865-0808

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keerie St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

LICENSED REGISTERED ARCHITECT
JOHN LEPICOVSKY
25577
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
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3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

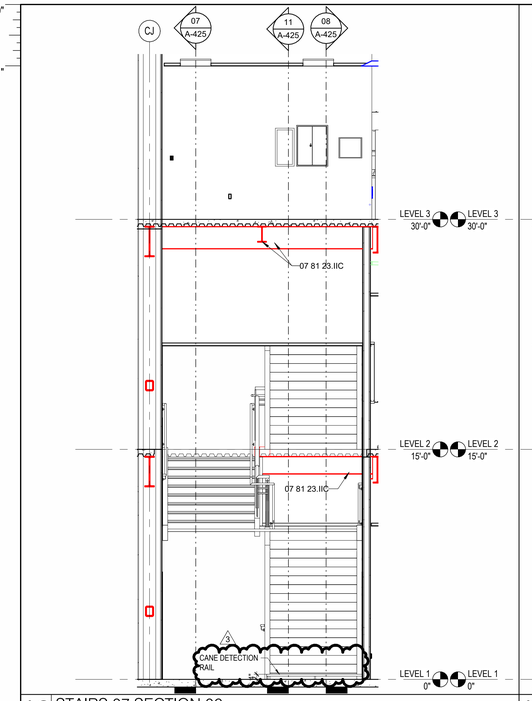
ENLARGED STAIR PLANS AND SECTIONS

A-424

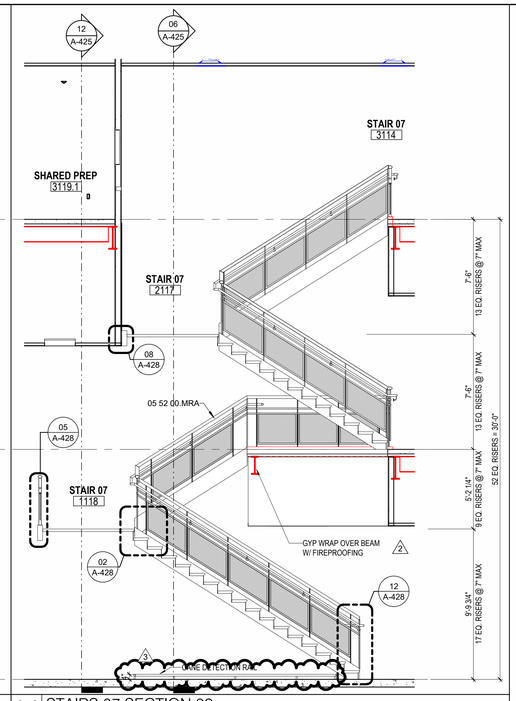
Plot Stamp:
1/8/2026 1:41:28 PM

ENLARGED STAIR PLANS AND SECTIONS
A-425

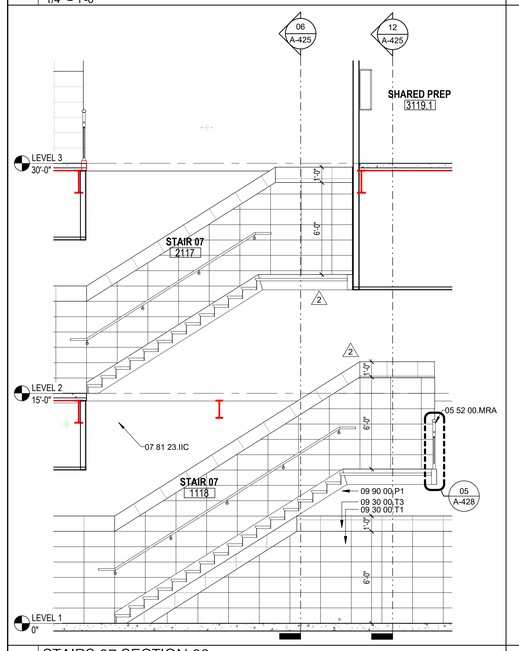
FOR BLUEBEAM LABELING/OCR:



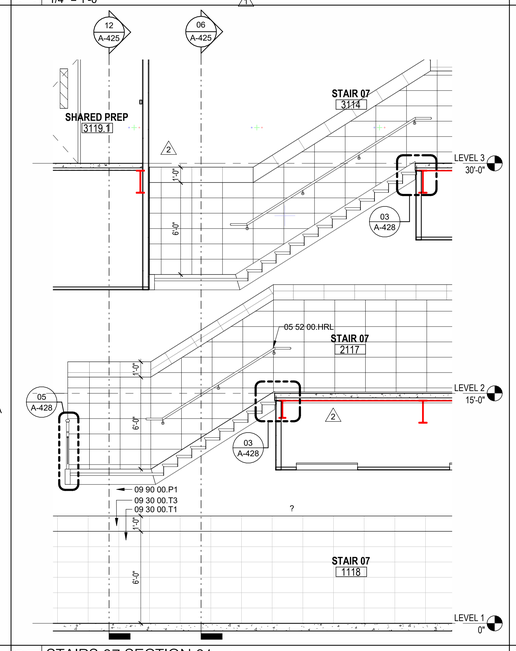
12 STAIRS 07 SECTION 06
1/4" = 1'-0"



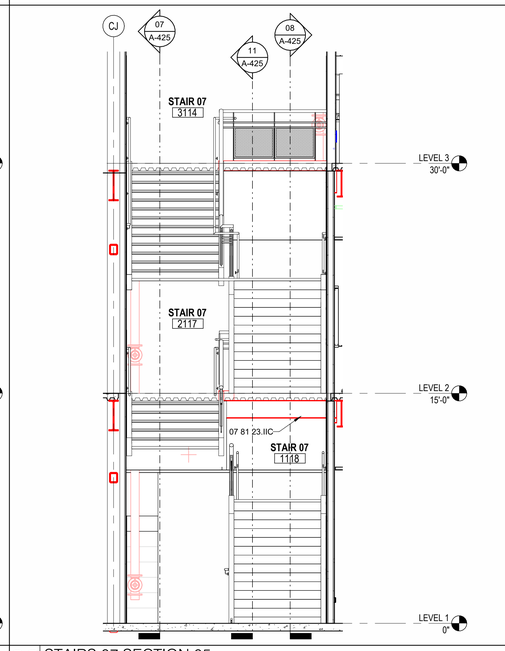
11 STAIRS 07 SECTION 02
1/4" = 1'-0"



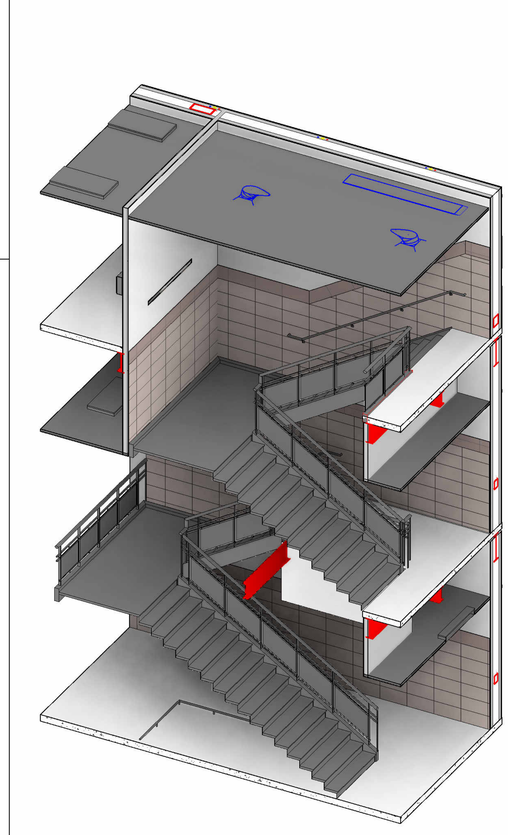
08 STAIRS 07 SECTION 03
1/4" = 1'-0"



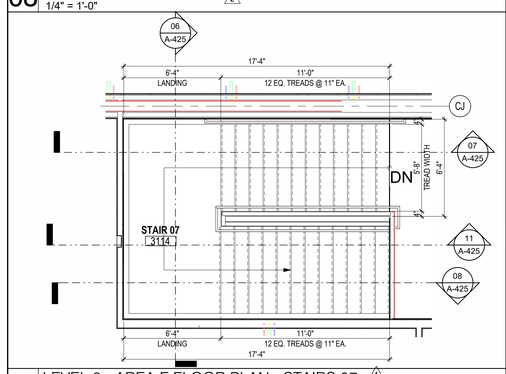
07 STAIRS 07 SECTION 01
1/4" = 1'-0"



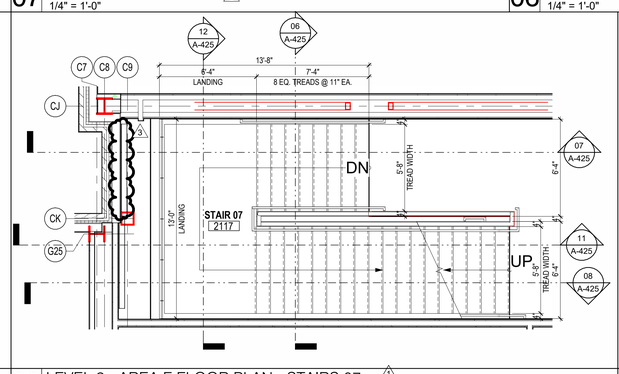
06 STAIRS 07 SECTION 05
1/4" = 1'-0"



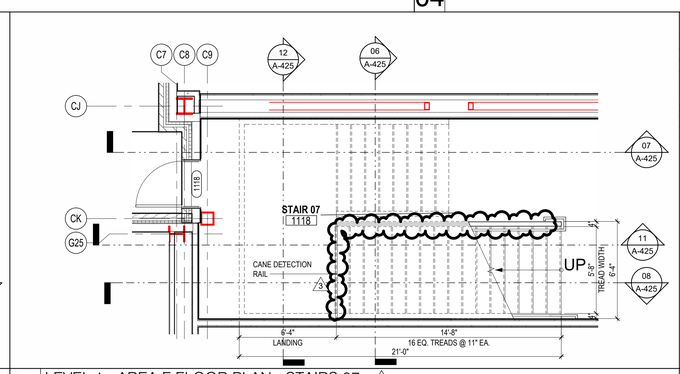
04 ISOMETRIC STAIRS 07 - AREA F



03 LEVEL 3 - AREA F FLOOR PLAN - STAIRS 07
1/4" = 1'-0"



02 LEVEL 2 - AREA F FLOOR PLAN - STAIRS 07
1/4" = 1'-0"



01 LEVEL 1 - AREA F FLOOR PLAN - STAIRS 07
1/4" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
05 52 00.HRL	HANDRAIL, 1-1/2" O.D.
05 52 00.MRA	ALUMINUM RAILING SYSTEM
07 81 23.IIC	INTERIOR INTUMESCENT COATING
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]
09 30 00.T3	TILE TYPE 3 - [WAINSCOT ACCENT TILE]
09 90 00.P1	PAINT TYPE 1 - [FIELD]

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

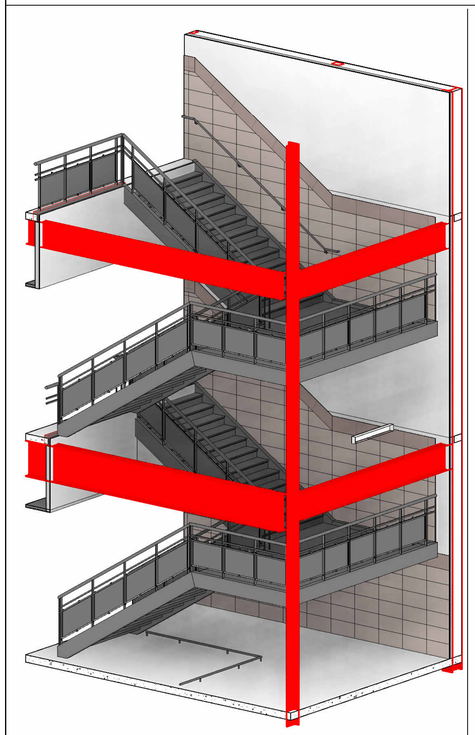
ENLARGED STAIR PLANS AND SECTIONS

A-425

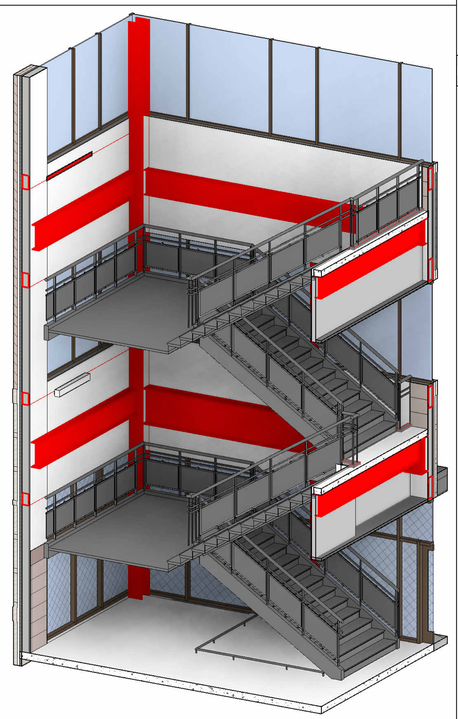
Plot Stamp:
1/8/2026 1:41:45 PM

ENLARGED STAIR PLANS AND SECTIONS
A-426
FOR BLUEBEAM LABELING/DOOR:

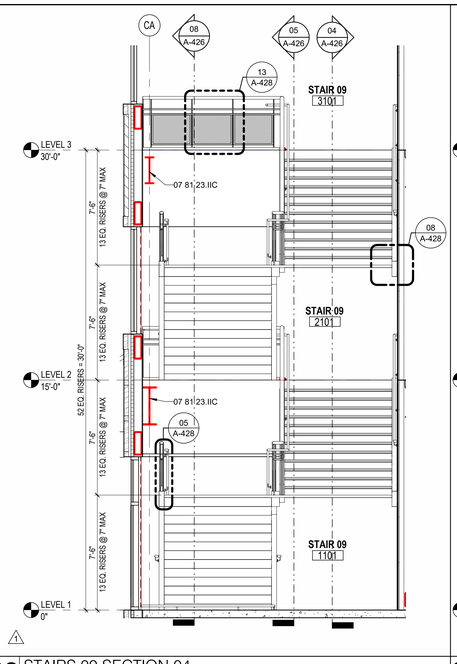
0"
1"



07 ISOMETRIC STAIRS 09 - AREA E



06 ISOMETRIC STAIRS 09 - AREA E



05 STAIRS 09 SECTION 02
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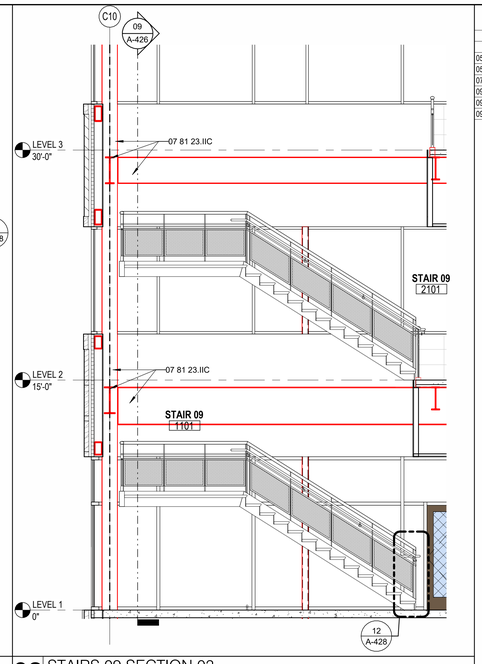
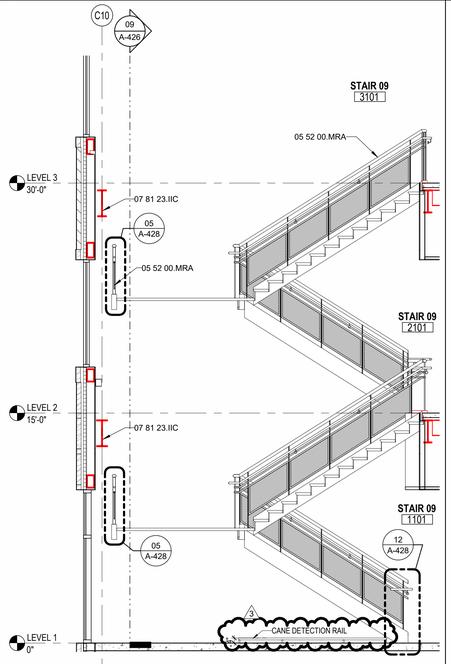


04 STAIRS 09 SECTION 01
1/4" = 1'-0"



09 STAIRS 09 SECTION 04
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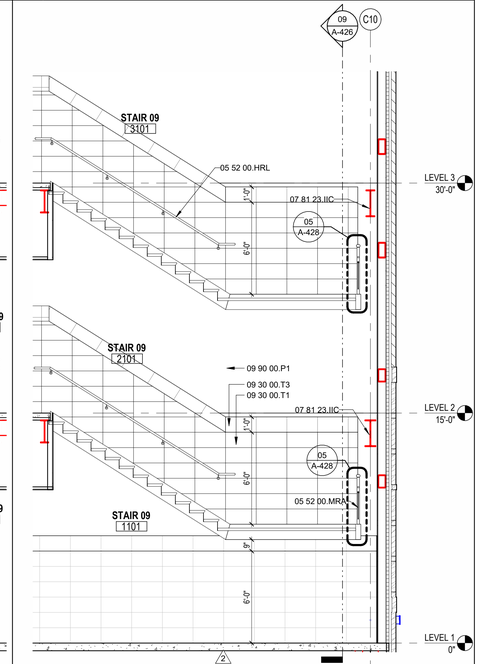

08 STAIRS 09 SECTION 03
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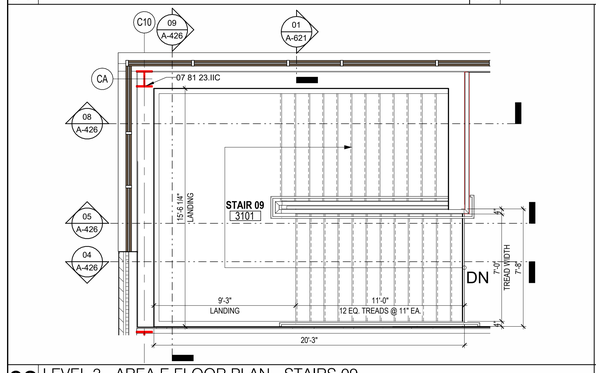
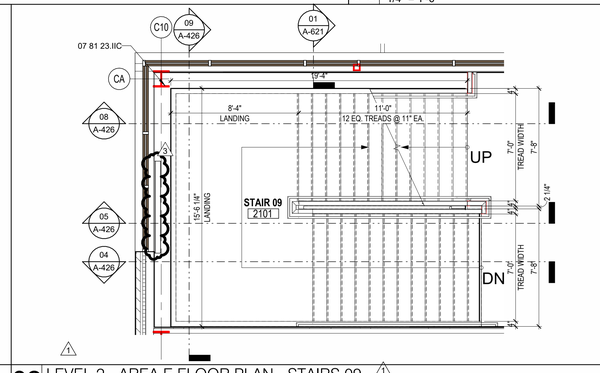
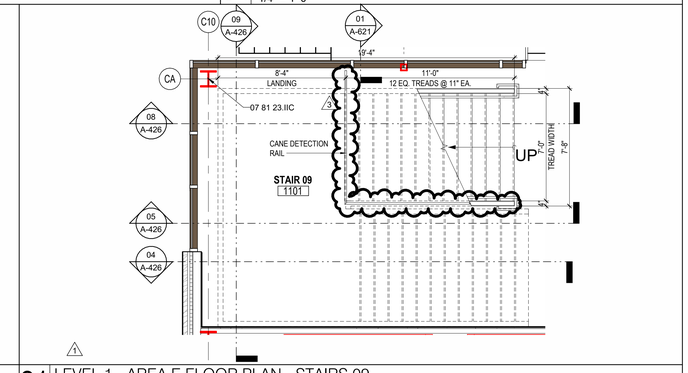


03 LEVEL 3 - AREA E FLOOR PLAN - STAIRS 09
1/4" = 1'-0"



02 LEVEL 2 - AREA E FLOOR PLAN - STAIRS 09
1/4" = 1'-0"



01 LEVEL 1 - AREA E FLOOR PLAN - STAIRS 09
1/4" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
05 52 00.HRL	HANDRAIL, 1-1/2" O.D.
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REGISTERED ARCHITECT JAN LEPICOVSKY STATE OF TEXAS 25572

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Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

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CHECKED BY: Checker
DRAWN BY: Author

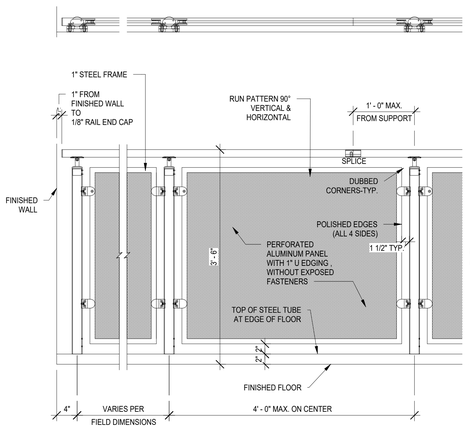
ENLARGED STAIR PLANS AND SECTIONS

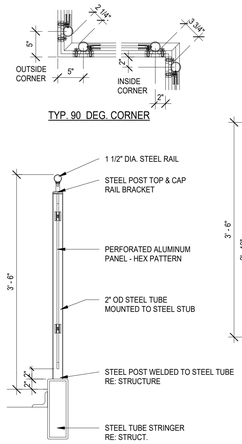
A-426

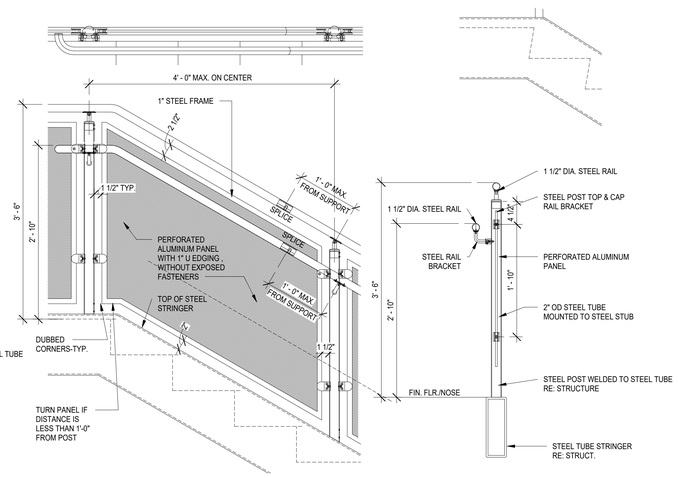
Plot Stamp:
1/8/2026 1:41:59 PM

STAIR DETAILS
A-428
FOR BLUEBEAM LABELING/DOOR:

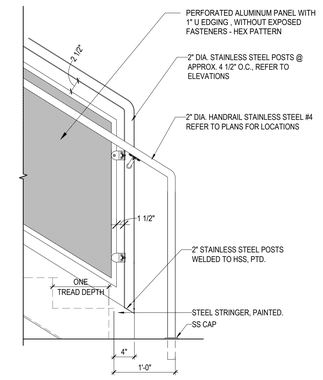
0"
1"



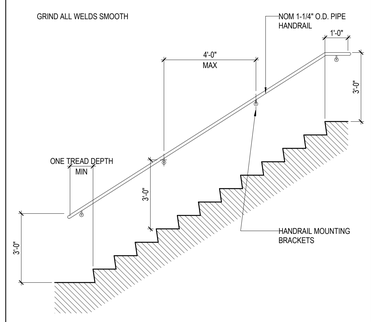




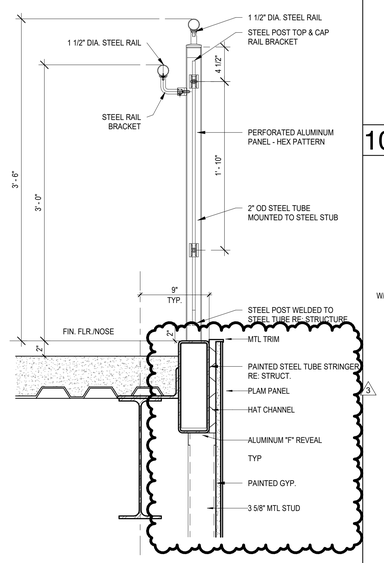
13 STAIR DETAIL - ORNAMENTAL HANDRAIL
1" = 1'-0"



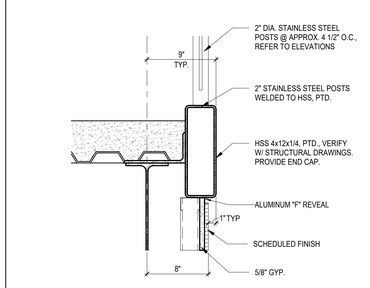
12 STAIR DETAIL - BOTTOM HANDRAIL
1" = 1'-0"



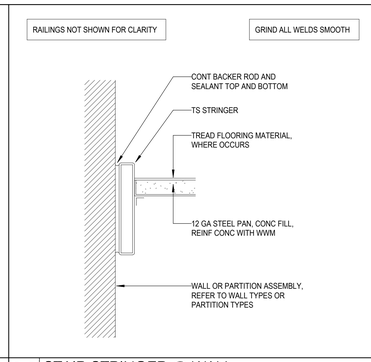
11 TYP. WALL MOUNTED RAILING
3/8" = 1'-0"



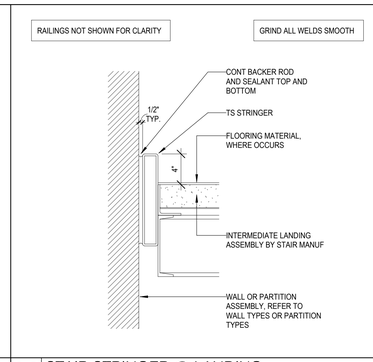
05 GUARDRAIL SECTION - SLAB EDGE
1 1/2" = 1'-0"



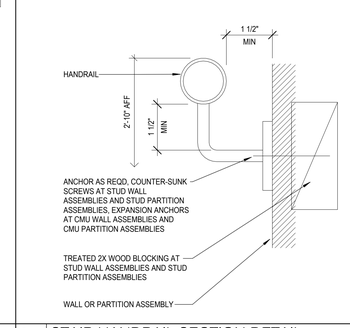
10 SECTION DETAIL
1 1/2" = 1'-0"



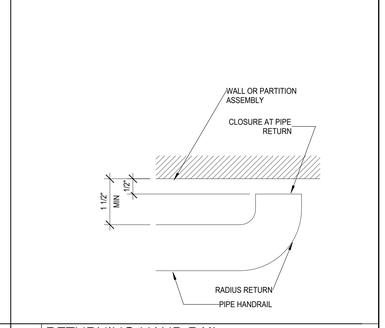
09 STAIR STRINGER @ WALL
1 1/2" = 1'-0"



08 STAIR STRINGER @ LANDING
1 1/2" = 1'-0"

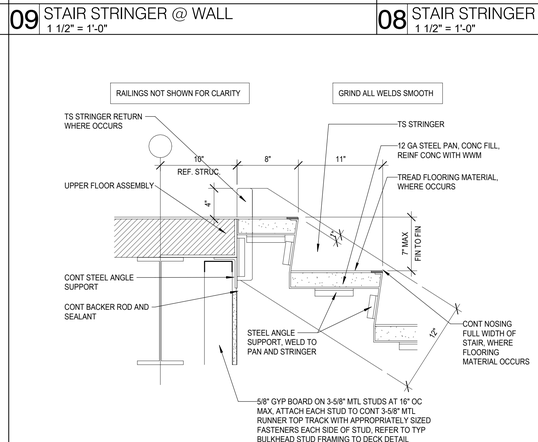


07 STAIR HANDRAIL SECTION DETAIL
6" = 1'-0"

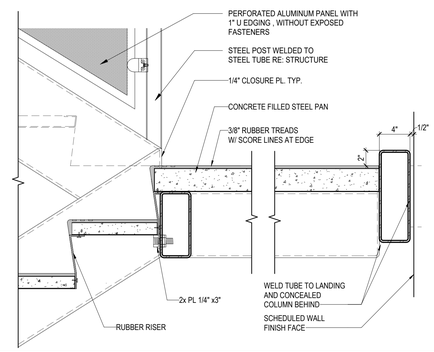


06 RETURNING HAND RAIL
6" = 1'-0"

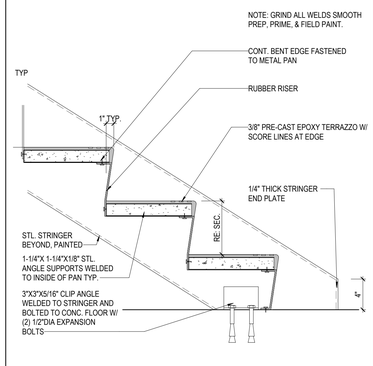
04 TYP. NOSING DETAIL
N.T.S.



03 UPPER STAIR LANDING
1 1/2" = 1'-0"



02 STAIR TREAD AT MID-LANDING
1 1/2" = 1'-0"



01 STAIR AT LEVEL SLAB
1 1/2" = 1'-0"

Plot Stamp:
1/8/2026 1:42:03 PM

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KEY PLAN
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REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

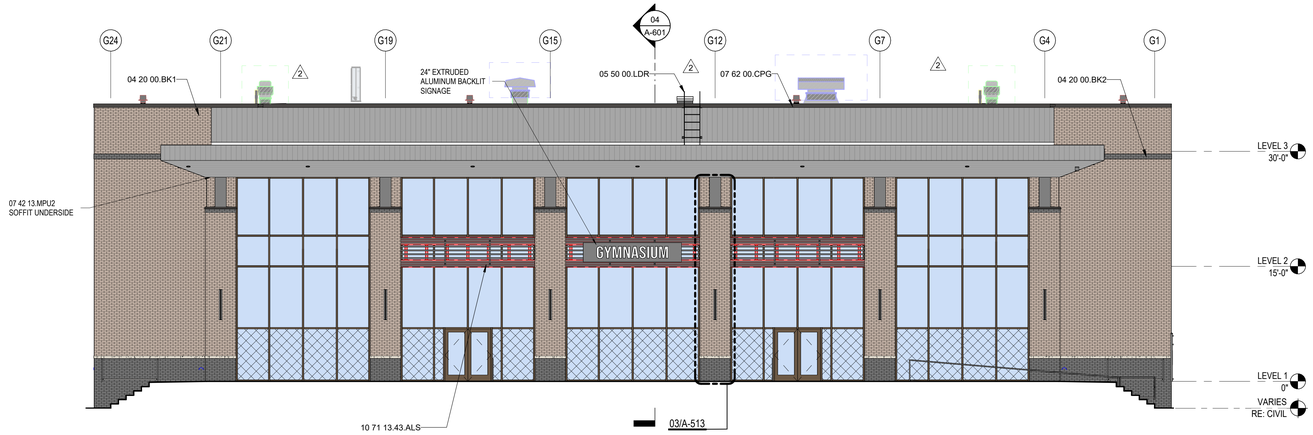
No.	Description	Date
1	ADD 01	2025/12/11
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

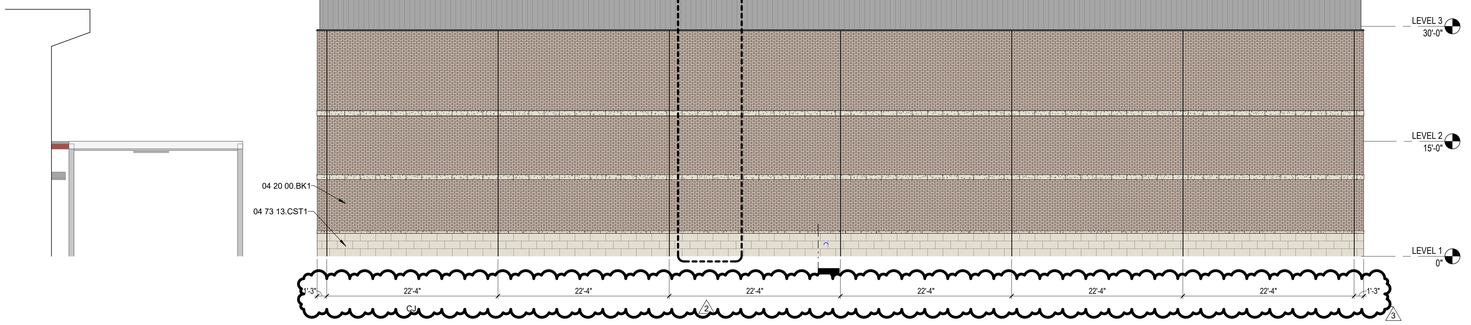
STAIR DETAILS

A-428

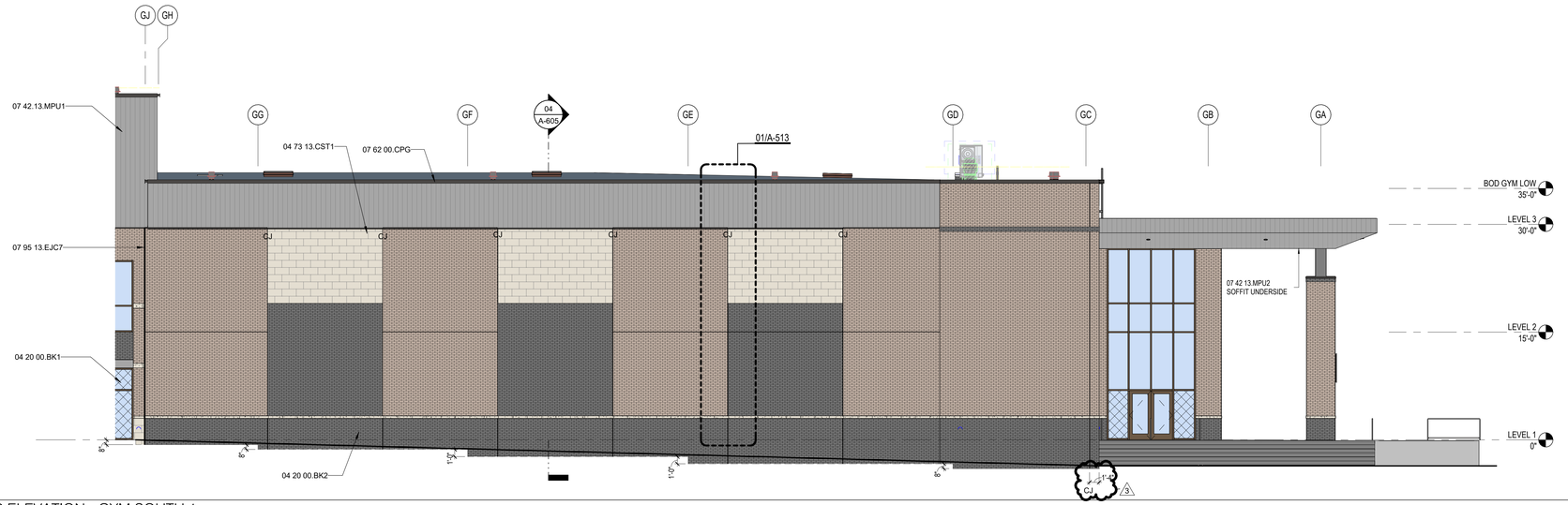
0"
1"



03 EXTERIOR ELEVATION - GYM EAST
1/8" = 1'-0"



02 EXTERIOR ELEVATION - GYM WEST
1/8" = 1'-0"



01 EXTERIOR ELEVATION - GYM SOUTH 1
1/8" = 1'-0"

GENERAL ELEVATION NOTES

1. ALL BUILDING EXPANSION JOINT TO BE 1" UNLESS OTHERWISE NOTED.
2. CONTROL JOINT IN MASONRY VENEER TO BE 3/8" TYPICAL UNLESS OTHERWISE NOTED. EXTEND FULL HEIGHT OF WALL.
3. 1/2" EXPANSION JOINT FILLER ON BOTH ENDS OF ALL STEEL LINTEL ANGLES.
4. EXPOSED EXTERIOR STRUCTURAL STEEL TUBE MEMBERS SHALL BE PAINTED P-9.
5. STEEL MASONRY LINTELS SHALL BE GALVANIZED.
6. EXPOSED CONCRETE WALLS, COLUMNS, AND BEAMS SHALL BE RUBBED GROUT FINISH.
7. MASONRY WEEP AT 16" O.C. MAXIMUM.
8. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE ALUMINUM SUB-SILLS WITH END DAMS.
9. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE CONTINUOUS ALUMINUM BACKFILLERS WITH CONTINUOUS PERIMETER ALUMINUM ANGLE.
10. FLEXIBLE MEMBRANE FLASHING AT WINDOWS SILLS AND LINTELS SHALL HAVE PRE-FORMED END DAMS.
11. MASONRY VENEER CONTROL JOINTS SHALL BE 3/8" AT INSIDE CORNERS. AT DISTANCES NOT TO EXCEED 2'-4" FROM OUTSIDE CORNERS, AND AT 30'-0" O.C. MAXIMUM. UNLESS NOTED OTHERWISE. REFERENCE EXTERIOR ELEVATIONS.
12. GUTTERS, CONDUCTOR HEADS, AND DOWNSPOUTS SHALL BE PRE-FINISHED SHEET METAL. COLOR SELECTED BY ARCHITECT.
13. DOWNSPOUTS SHALL HAVE 16 GAUGE PRE-FINISHED DOWNSPOUT BOOTS TO 6'-0" ABOVE FINISH GRADE. COLOR SELECTED BY ARCHITECT.
14. DOWNSPOUTS AND/OR ROOF DRAINS SHALL BE CONNECTED TO STORM DRAIN SYSTEM UNLESS OTHERWISE NOTED. REFERENCE CIVIL FOR STORM DRAIN CONNECTION DETAILS AND LOCATIONS.
15. CONTRACTOR SHALL PROVIDE MOCK-UP FOR EACH EXTERIOR CONDITION AND CONSTRUCTION ASSEMBLY TYPE. INCLUDE A 2X2 WINDOW MOCK-UP. MOCK-UP SHALL INCLUDE METAL FLASHINGS, VERTICAL AND HORIZONTAL FLEXIBLE MEMBRANE FLASHINGS, AND WINDOW INSTALLATIONS AS DETAILED IN CONSTRUCTION DOCUMENTS. MOCK-UP SHALL BE A MINIMUM OF 8'-0" TALL X 16'-0" LONG WITH AN EXTERIOR CORNER, INTERIOR CORNER, AND VERTICAL CONTROL JOINTS. COORDINATE LOCATION OF MOCK-UP PANEL WITH ARCHITECT PRIOR TO CONSTRUCTION.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
04 20 00.BK1	BRICK TYPE 1 - GALENA NEW BLEND
04 20 00.BK2	BRICK TYPE 2 - MIDNIGHT IRONSPOT VELOUR
04 73 13.CST1	
05 50 00.LDR	STEEL LADDER
07 42.13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
07 62 00.CPG	PRE-FINISHED METAL COPING
07 95 13.EJC7	INTERIOR, FIRE-RATED, FLOOR/WALL/CEILING, SEISMIC-MOVEMENT JOINT COVER
10 71 13.43.ALS	ALUMINUM SUN SCREEN SYSTEM

GLAZING MATERIALS LEGEND

GI1
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR INTERIOR PANE

GL1
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR LAMINATED INTERIOR PANE

GI2
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT INTERIOR PANE

GL2
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT LAMINATED INTERIOR PANE

GG1
1/4 INCH CLEAR, FLOAT GLASS

GS1
1" INSULATED UNIT, BACK PAINTED ON SURFACE 4
COLOR: AS SELECTED BY ARCHITECT

GG2
1" CLEAR INSULATED VISION GLASS

EXTERIOR MATERIALS LEGEND

04 20 00.BK1 (R)
BRICK TYPE 1
MODULAR, RUNNING BOND
CLOUD CERAMICS
GALENA NEW BLEND

04 20 00.BK2 (R)
BRICK TYPE 2
MODULAR, RUNNING BOND
CLOUD CERAMICS
MIDNIGHT IRONSPOT VELOUR

07 42 13.MPU1
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
DARK BRONZE

07 42 13.MPU2
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
SHASTA WHITE

07 42 13.MPU3
UNINSULATED METAL WALL PANEL
BERRIDGE, DOUBLE-RIB PANEL WITH
EXPOSED FASTENERS,
DARK BRONZE

04 73 13.CST2
SPLIT-FACE GINGER
STONE VENEER,
ARRISCRAFT

04 73 13.CST1
SMOOTH WHITE LIMESTONE
12"x24", ARRISCRAFT

07 42 13.23.MCM1
ALUMINUM METAL COMPOSITE
MATERIAL WALL PANEL

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713-865-0008

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CHECKED BY: Checker
DRAWN BY: Author

EXTERIOR ELEVATIONS

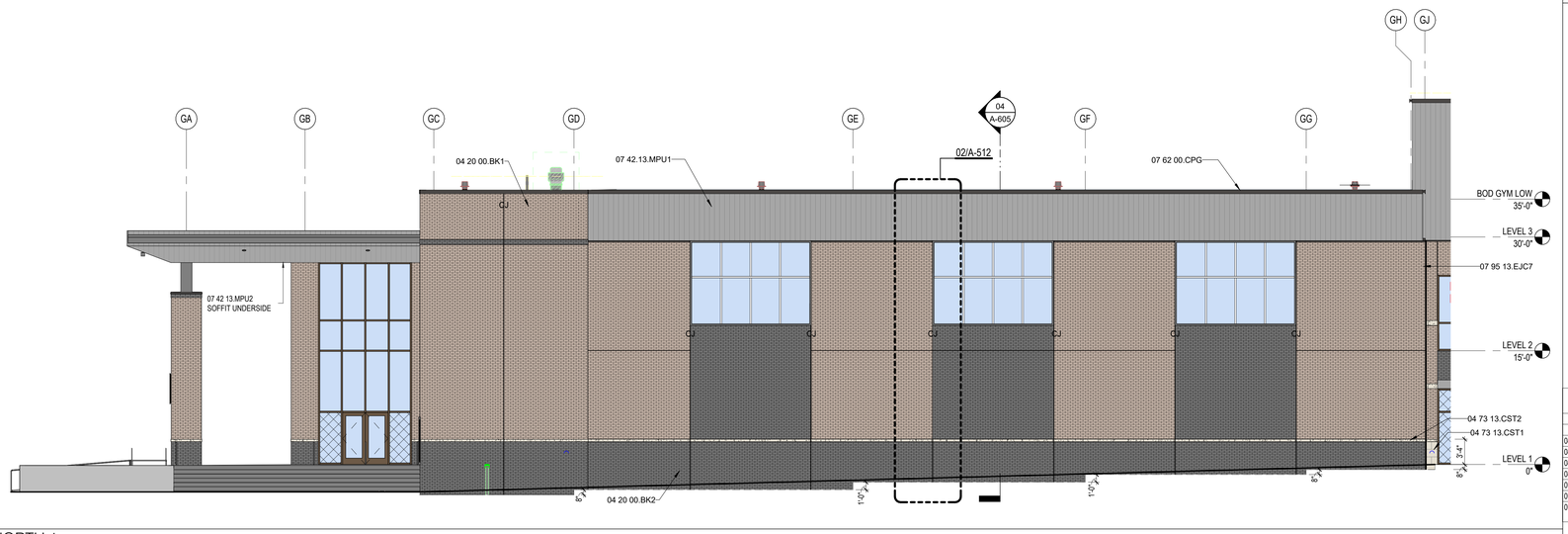
A-504

EXTERIOR ELEVATIONS
A-504
FOR BLUEBEAM LABELING/OCR:

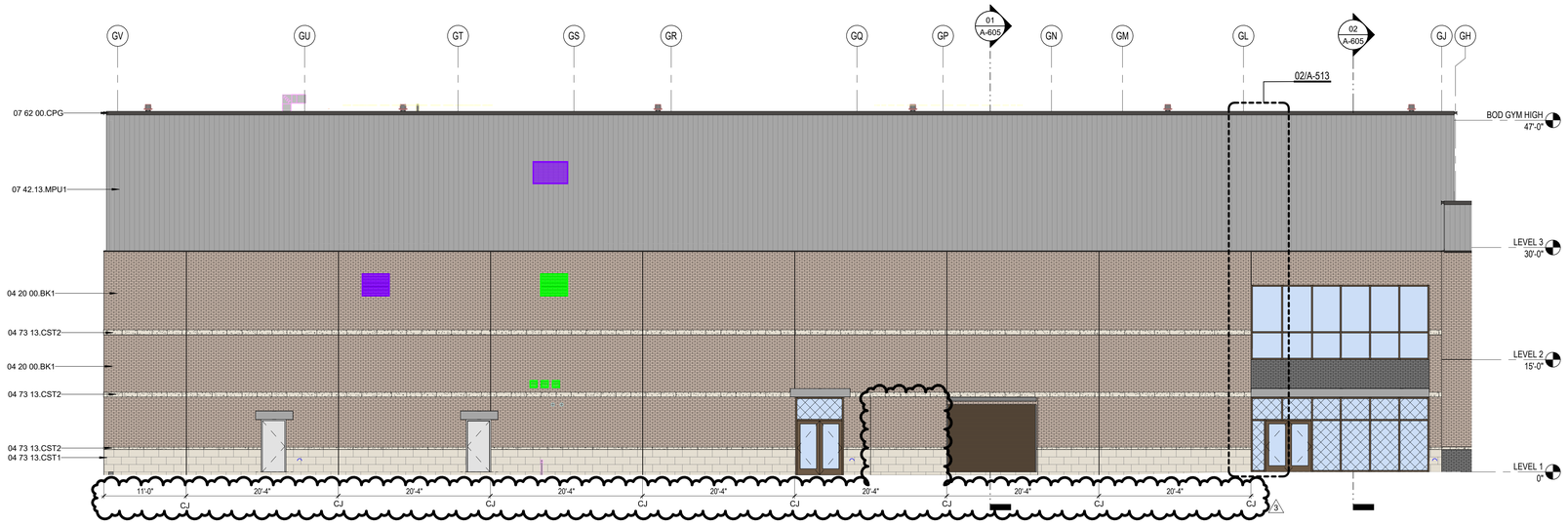
Plot Stamp:
1/8/2026 1:42:20 PM

EXTERIOR ELEVATIONS
A-505
FOR BLUEBEAM LABELING/DOCR:

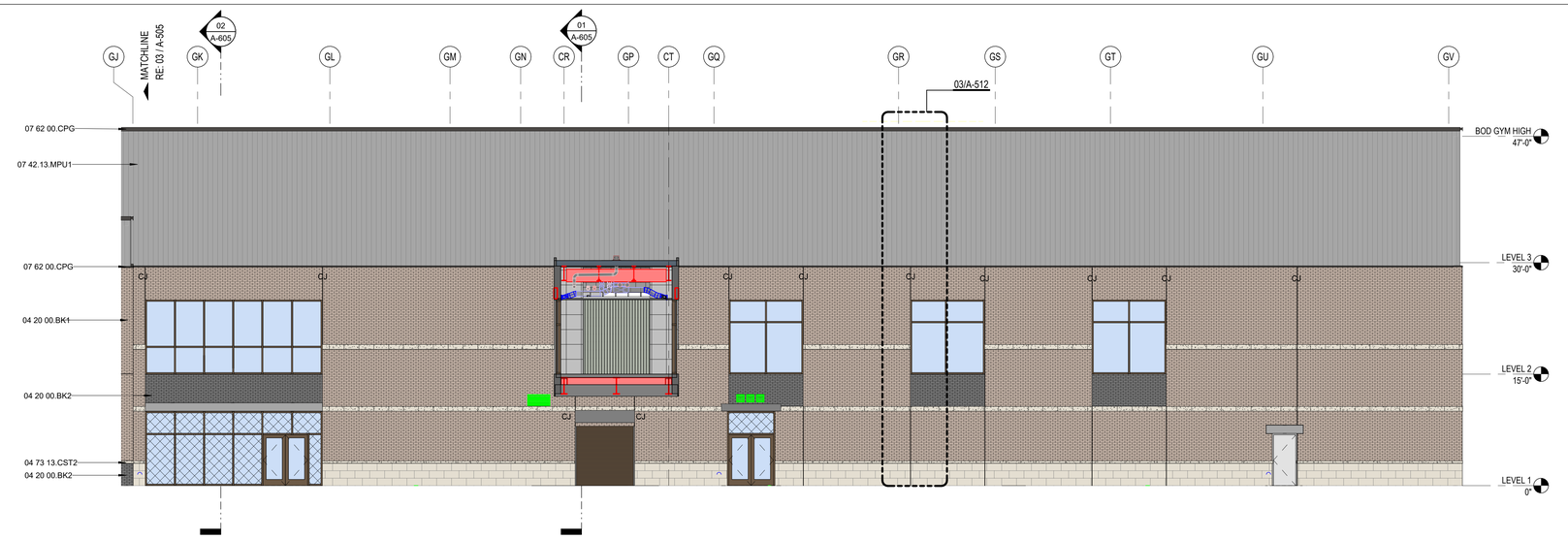
0"
1"



03 EXTERIOR ELEVATION - GYM NORTH 1
1/8" = 1'-0"



02 EXTERIOR ELEVATION - GYM SOUTH 2
1/8" = 1'-0"



01 EXTERIOR ELEVATION - GYM NORTH 2
1/8" = 1'-0"

GENERAL ELEVATION NOTES

1. ALL BUILDING EXPANSION JOINT TO BE 1" UNLESS OTHERWISE NOTED.
2. CONTROL JOINT IN MASONRY VENEER TO BE 3/8" TYPICAL UNLESS OTHERWISE NOTED. EXTEND FULL HEIGHT OF WALL.
3. 1/2" EXPANSION JOINT FILLER ON BOTH ENDS OF ALL STEEL LINTEL ANGLES.
4. EXPOSED EXTERIOR STRUCTURAL STEEL TUBE MEMBERS SHALL BE PAINTED P-9.
5. STEEL MASONRY LINTELS SHALL BE GALVANIZED.
6. EXPOSED CONCRETE WALLS, COLUMNS, AND BEAMS SHALL BE RUBBED GROUT FINISH.
7. MASONRY WEEP AT 16" O.C. MAXIMUM.
8. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE ALUMINUM SUB-SILLS WITH END DAMS.
9. EXTERIOR ALUMINUM STOREFRONT SYSTEM SHALL HAVE CONTINUOUS ALUMINUM BACKFILLERS WITH CONTINUOUS PERIMETER ALUMINUM ANGLE.
10. FLEXIBLE MEMBRANE FLASHING AT WINDOWS SILLS AND LINTELS SHALL HAVE PRE-FORMED END DAMS.
11. MASONRY VENEER CONTROL JOINTS SHALL BE 3/8" AT INSIDE CORNERS. AT DISTANCES NOT TO EXCEED 2'-4" FROM OUTSIDE CORNERS, AND AT 30'-0" O.C. MAXIMUM. UNLESS NOTED OTHERWISE. REFERENCE EXTERIOR ELEVATIONS.
12. GUTTERS, CONDUCTOR HEADS, AND DOWNSPOUTS SHALL BE PRE-FINISHED SHEET METAL. COLOR SELECTED BY ARCHITECT.
13. DOWNSPOUTS SHALL HAVE 16 GAUGE PRE-FINISHED DOWNSPOUT BOOTS TO 6'-0" ABOVE FINISH GRADE. COLOR SELECTED BY ARCHITECT.
14. DOWNSPOUTS AND/OR ROOF DRAINS SHALL BE CONNECTED TO STORM DRAIN SYSTEM UNLESS OTHERWISE NOTED. REFERENCE CIVIL FOR STORM DRAIN CONNECTION DETAILS AND LOCATIONS.
15. CONTRACTOR SHALL PROVIDE MOCK-UP FOR EACH EXTERIOR CONDITION AND CONSTRUCTION ASSEMBLY TYPE. INCLUDE A 2X2 WINDOW MOCK-UP. MOCK-UP SHALL INCLUDE METAL FLASHINGS, VERTICAL AND HORIZONTAL FLEXIBLE MEMBRANE FLASHINGS, AND WINDOW INSTALLATIONS AS DETAILED IN CONSTRUCTION DOCUMENTS. MOCK-UP SHALL BE A MINIMUM OF 8'-0" TALL X 16'-0" LONG WITH AN EXTERIOR CORNER, INTERIOR CORNER, AND VERTICAL CONTROL JOINTS. COORDINATE LOCATION OF MOCK-UP PANEL WITH ARCHITECT PRIOR TO CONSTRUCTION.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
04 20 00.BK1	BRICK TYPE 1 - GALENA NEW BLEND
04 20 00.BK2	BRICK TYPE 2 - MIDNIGHT IRONSPOT VELOUR
04 73 13.CST1	
04 73 13.CST2	
07 42.13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
07 62 00.CPG	PRE-FINISHED METAL COPING
07 95 13.EJC7	INTERIOR, FIRE-RATED, FLOOR/WALL/CEILING, SEISMIC-MOVEMENT JOINT COVER

GLAZING MATERIALS LEGEND

GI1
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR INTERIOR PANE

GL1
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR LAMINATED INTERIOR PANE

GI2
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT INTERIOR PANE

GL2
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT LAMINATED INTERIOR PANE

GG1
1/4 INCH CLEAR, FLOAT GLASS

GS1
1" INSULATED UNIT, BACK PAINTED ON SURFACE 4
COLOR: AS SELECTED BY ARCHITECT

GG2
1" CLEAR INSULATED VISION GLASS

EXTERIOR MATERIALS LEGEND

04 20 00.BK1 (R)
BRICK TYPE 1,
MODULAR, RUNNING BOND
CLOUD CERAMICS
GALENA NEW BLEND

04 20 00.BK2 (R)
BRICK TYPE 2,
MODULAR, RUNNING BOND
CLOUD CERAMICS
MIDNIGHT IRONSPOT VELOUR

07 42 13.MPU1
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
DARK BRONZE

07 42 13.MPU2
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
SHASTA WHITE

07 42 13.MPU3
UNINSULATED METAL WALL PANEL
BERRIDGE, DOUBLE-RIB PANEL WITH
EXPOSED FASTENERS,
DARK BRONZE

04 73 13.CST2
SPLIT-FACE GINGER
STONE VENEER,
ARRISCRAFT

04 73 13.CST1
SMOOTH WHITE LIMESTONE
12"x24", ARRISCRAFT

07 42 13.23.MCM1
ALUMINUM METAL COMPOSITE
MATERIAL WALL PANEL

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN = TRUE

LICENSED REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

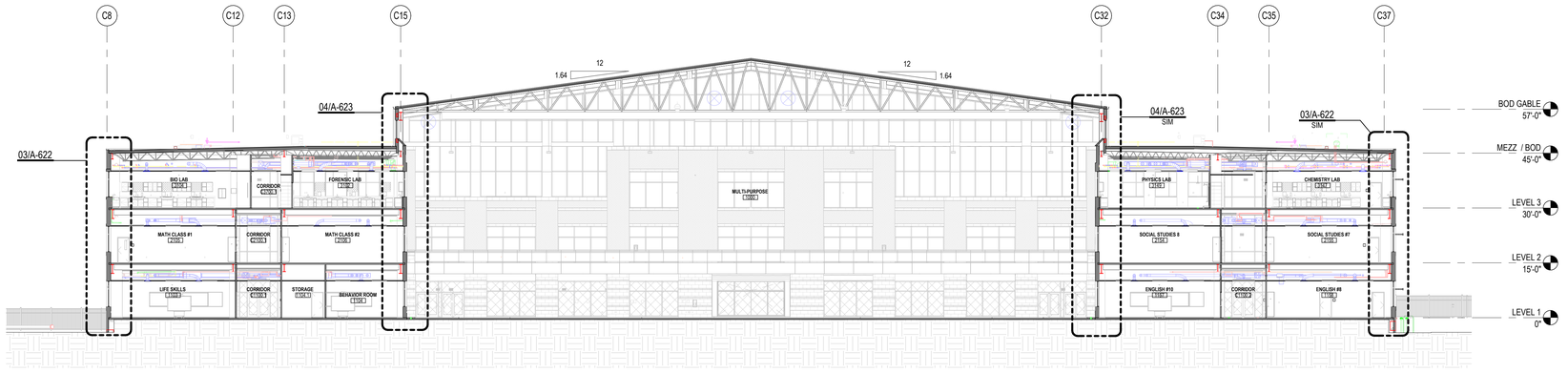
EXTERIOR ELEVATIONS

A-505

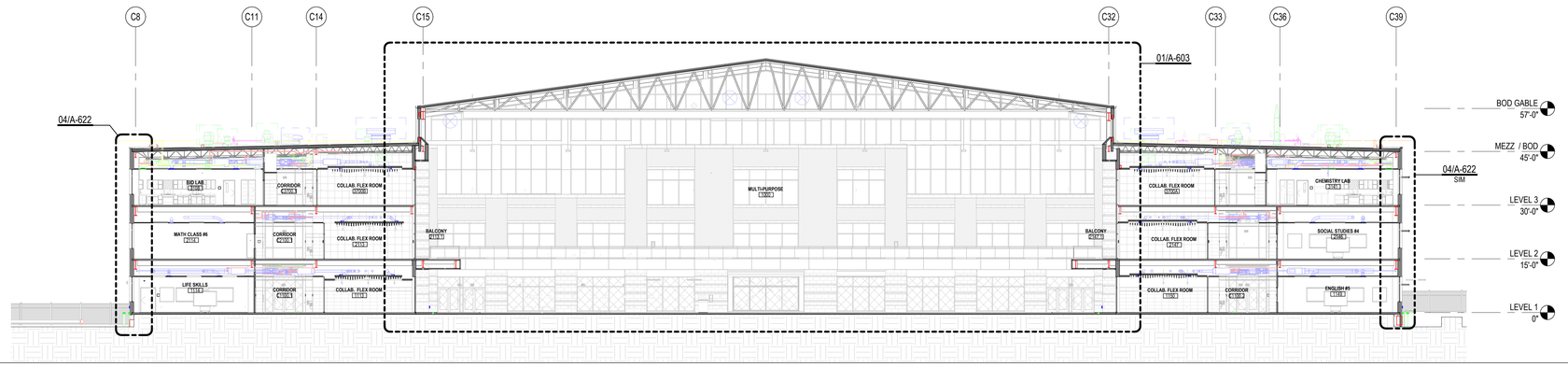
Plot Stamp:
1/8/2026 1:42:31 PM

OVERALL BUILDING SECTIONS
A-602
FOR BLUEBEAM LABELING/DOOR:

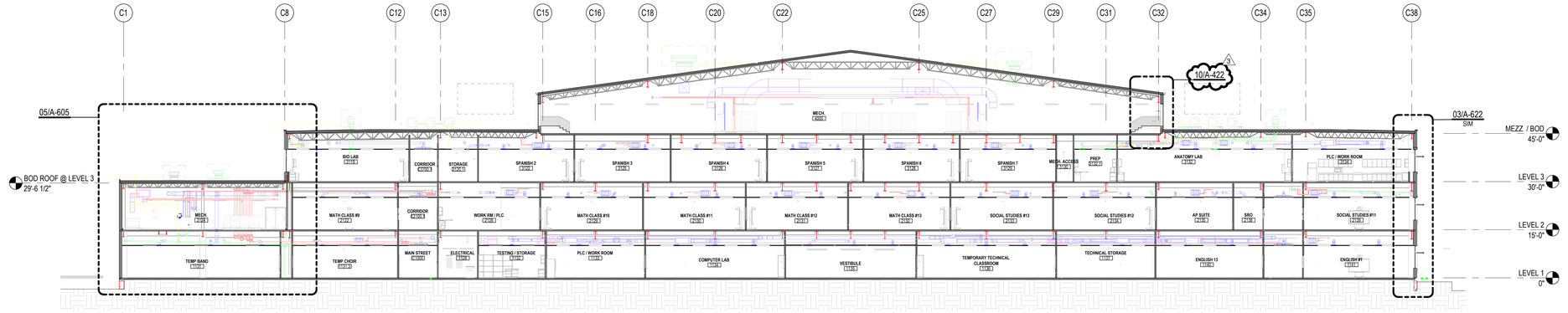
0"
1"



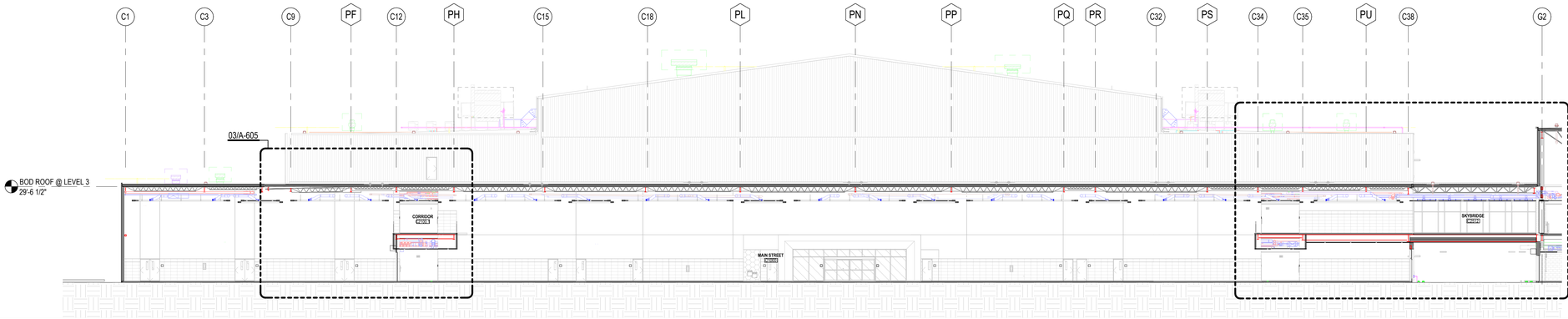
04 OVERALL BUILDING SECTION E
1/16" = 1'-0"



03 OVERALL BUILDING SECTION F
1/16" = 1'-0"



02 OVERALL BUILDING SECTION G
1/16" = 1'-0"



01 OVERALL BUILDING SECTION H
1/16" = 1'-0"

Plot Stamp:
1/8/2026 1:43:20 PM

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ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/09/01

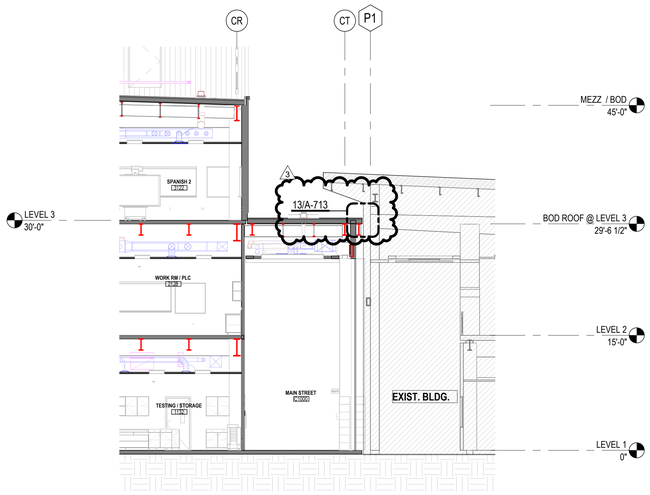
CHECKED BY: Checker
DRAWN BY: Author

OVERALL BUILDING SECTIONS

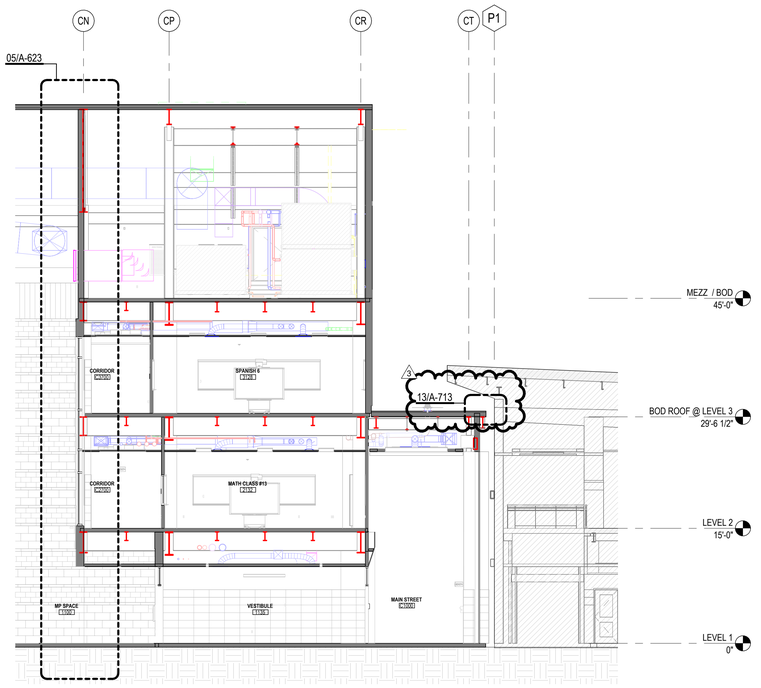
A-602

0"
1"

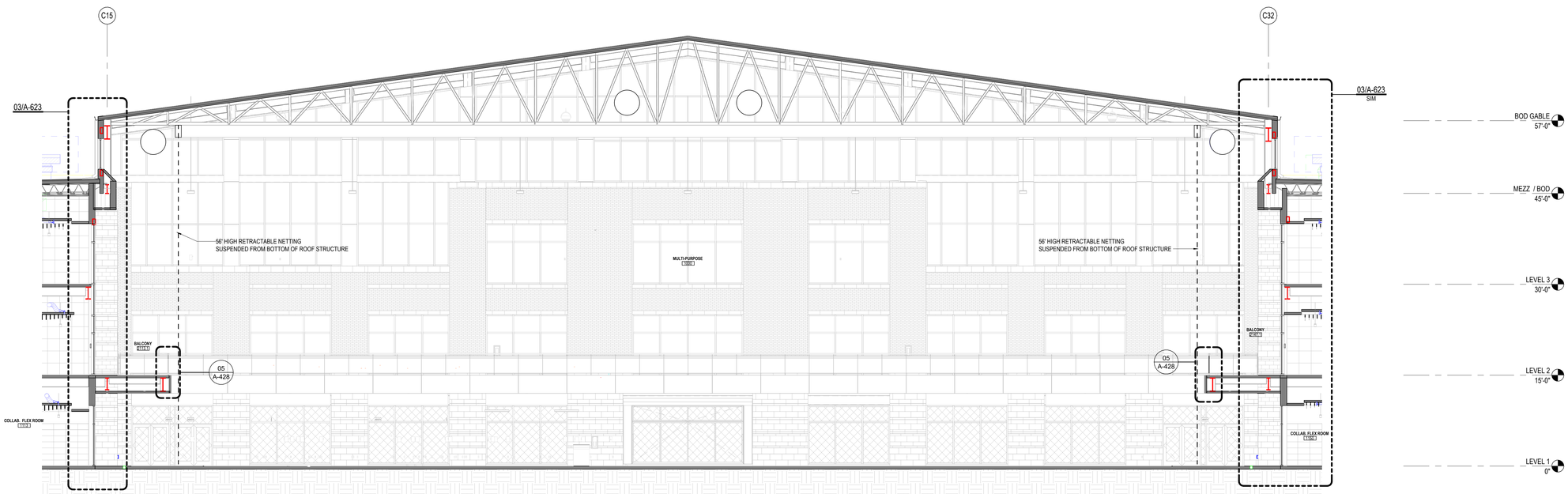
BUILDING SECTIONS
A-603
FOR BLUEBEAM LABELING/DOOR:



03 PARTIAL BUILDING SECTION @ MAIN STREET -4
1/8" = 1'-0"



02 PARTIAL BUILDING SECTION @ MAIN STREET - 3
1/8" = 1'-0"



01 PARTIAL BUILDING SECTION - MULTIPURPOSE FACILITY
1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:43:33 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN = TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

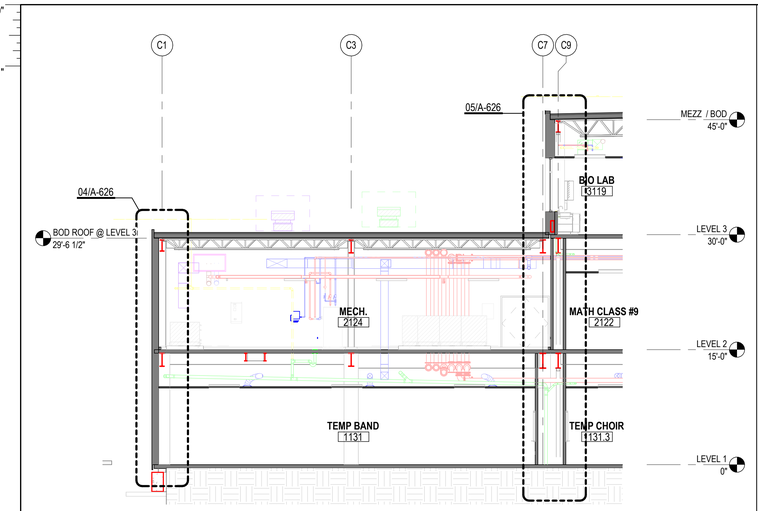
No.	Description	Date
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

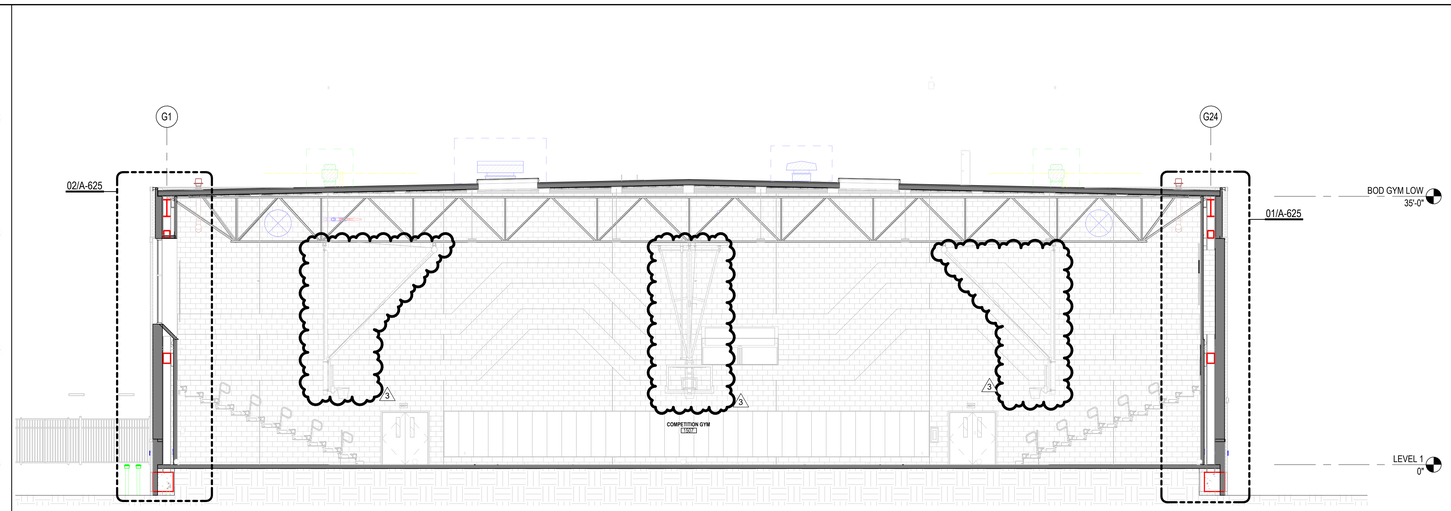
BUILDING SECTIONS

A-603

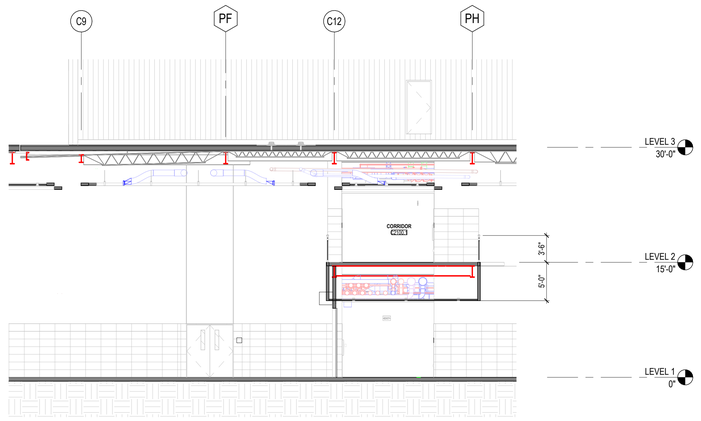
BUILDING SECTIONS
A-605
FOR BLUEBEAM LABELING/DOOR:



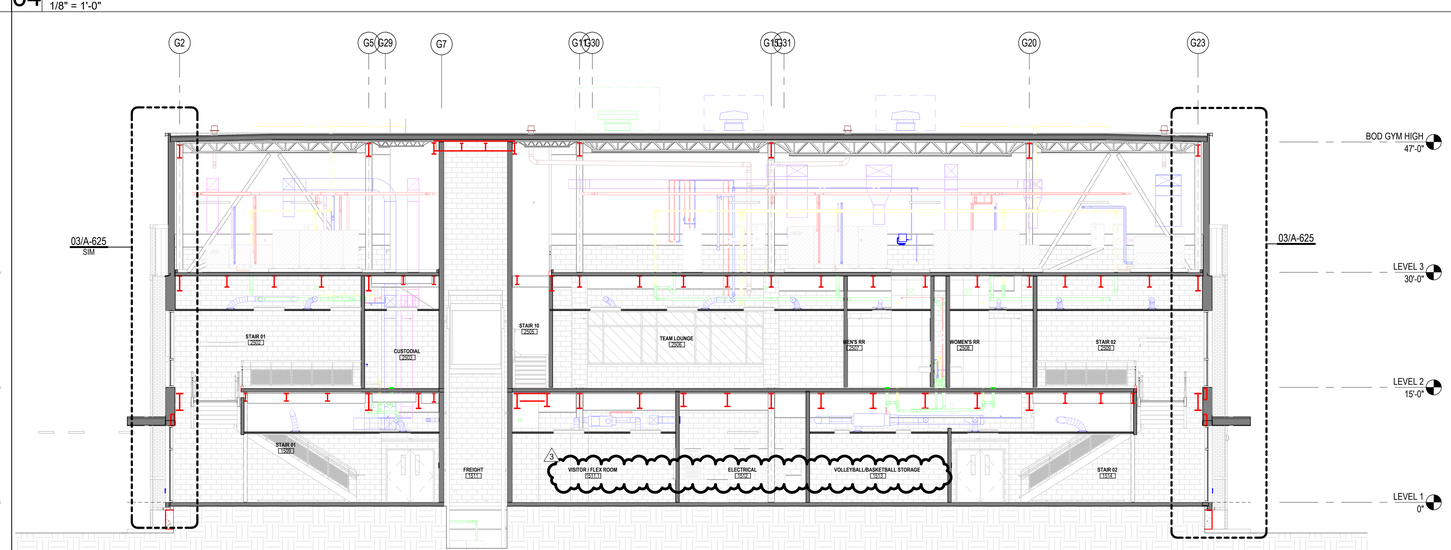
05 PARTIAL BUILDING SECTION @ MAIN STREET - 1
1/8" = 1'-0"



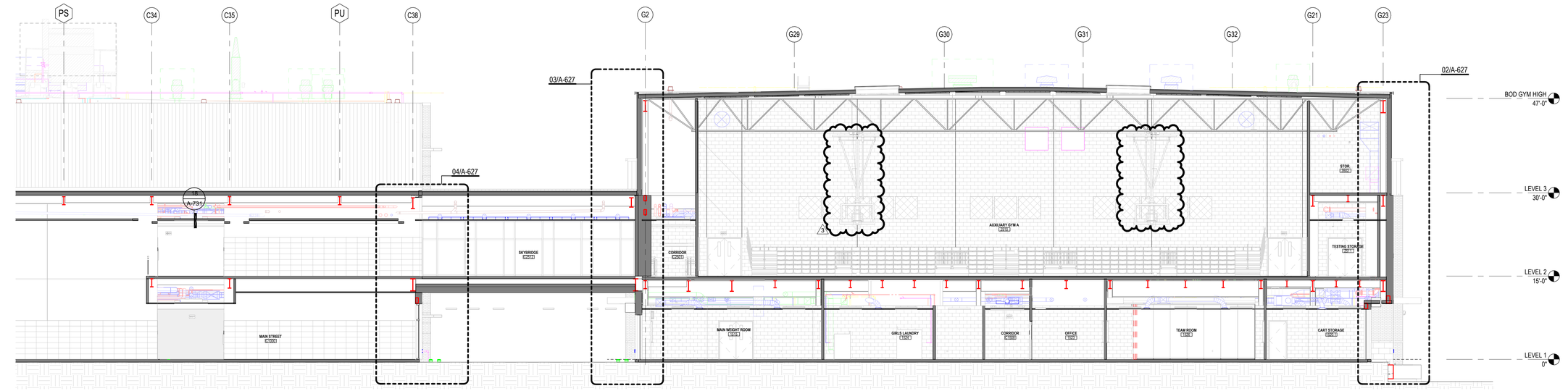
04 BUILDING SECTION H (PKG 3B)
1/8" = 1'-0"



03 PARTIAL BUILDING SECTION @ MAIN STREET 2
1/8" = 1'-0"



02 BUILDING SECTION J (PKG 3B)
1/8" = 1'-0"



01 BUILDING SECTION K (PKG 3B)
1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:44:25 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25577
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

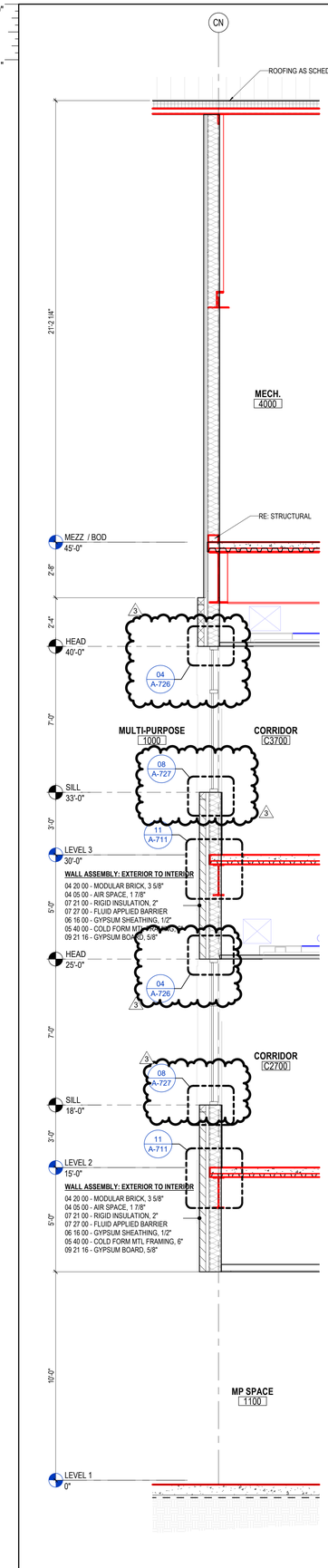
BUILDING SECTIONS

A-605

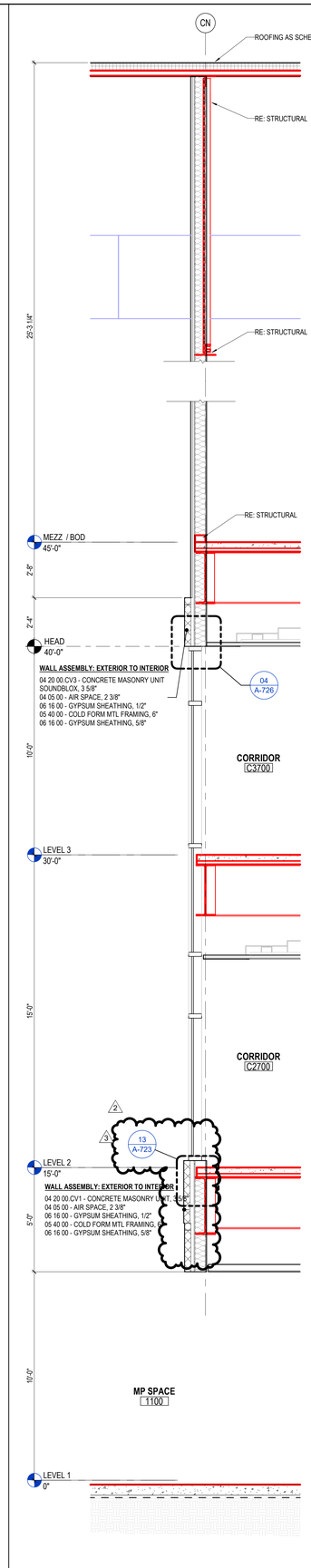
WALL SECTIONS
A-623
FOR BLUEBEAM LABELING/OCR:

KEYNOTE LEGEND

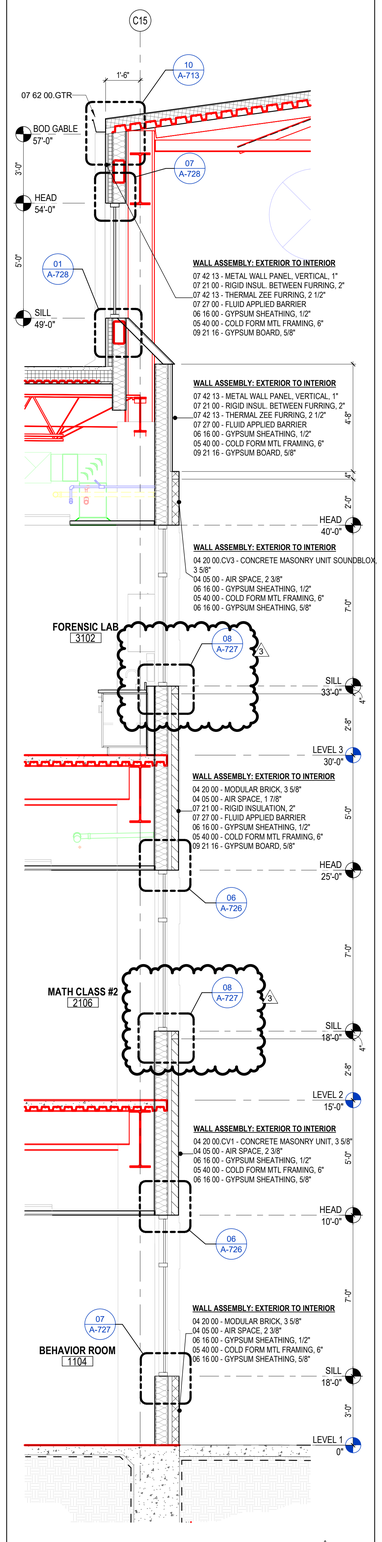
NUMBER	DESCRIPTION
04 73 13.CST2	
07 42 13.23.MCM1	ALUMINUM METAL COMPOSITE MATERIAL WALL PANEL, TYPE 1 - [DARK BRONZE]
07 42 13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
07 62 00.GTR	GUTTER
10 73 16.13.ACS	ALUMINUM CANOPY SYSTEM



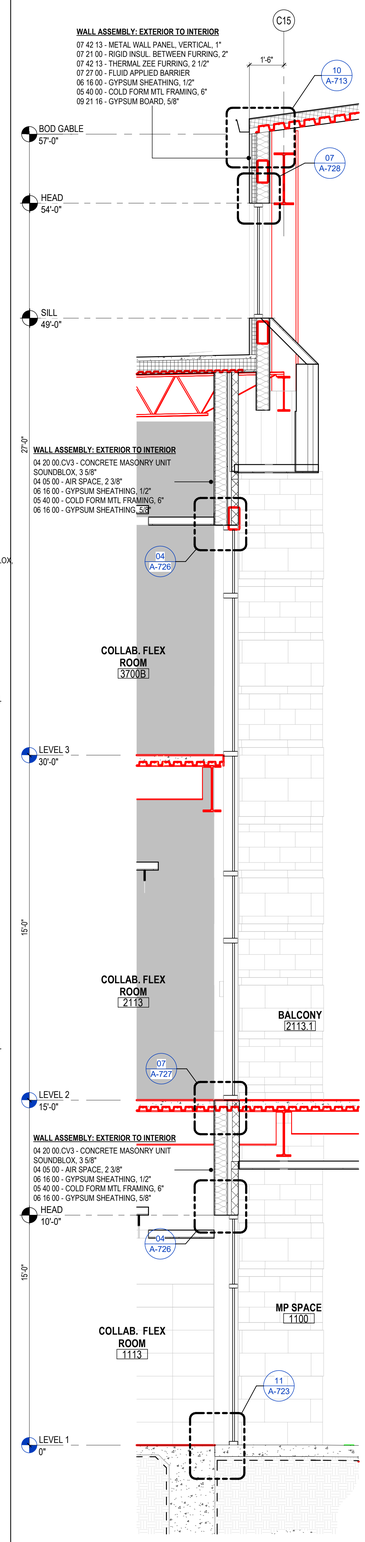
06 WALL SECTION @ MPF WEST WALL - 2
3/8" = 1'-0"



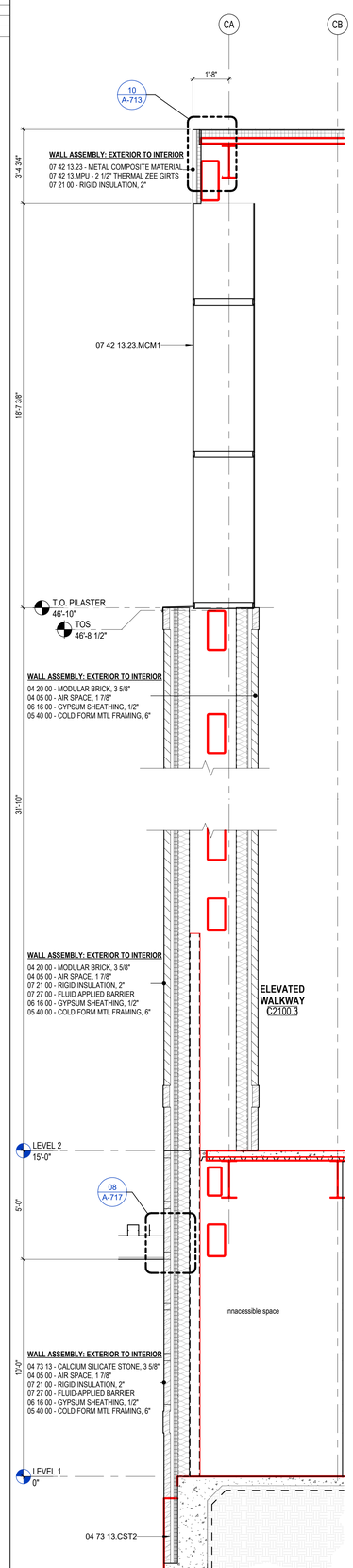
05 WALL SECTION @ MPF WEST WALL
3/8" = 1'-0"



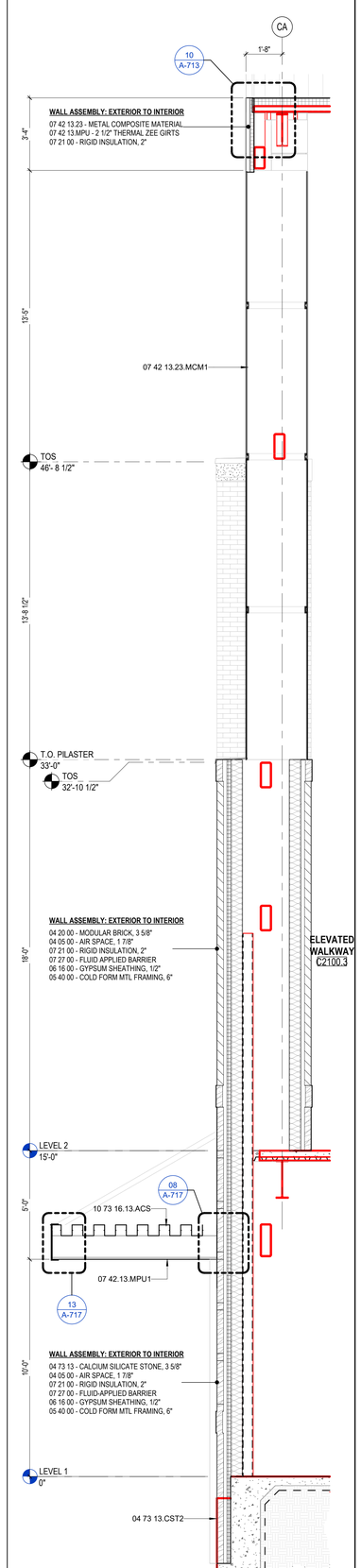
04 WALL SECTION @ MPF / CLASSROOMS
3/8" = 1'-0"



03 WALL SECTION @ MPF BALCONY
3/8" = 1'-0"



02 WALL SECTION @ PILASTER 02
3/8" = 1'-0"



01 WALL SECTION @ PILASTER -01
3/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

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Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker

DRAWN BY: Author

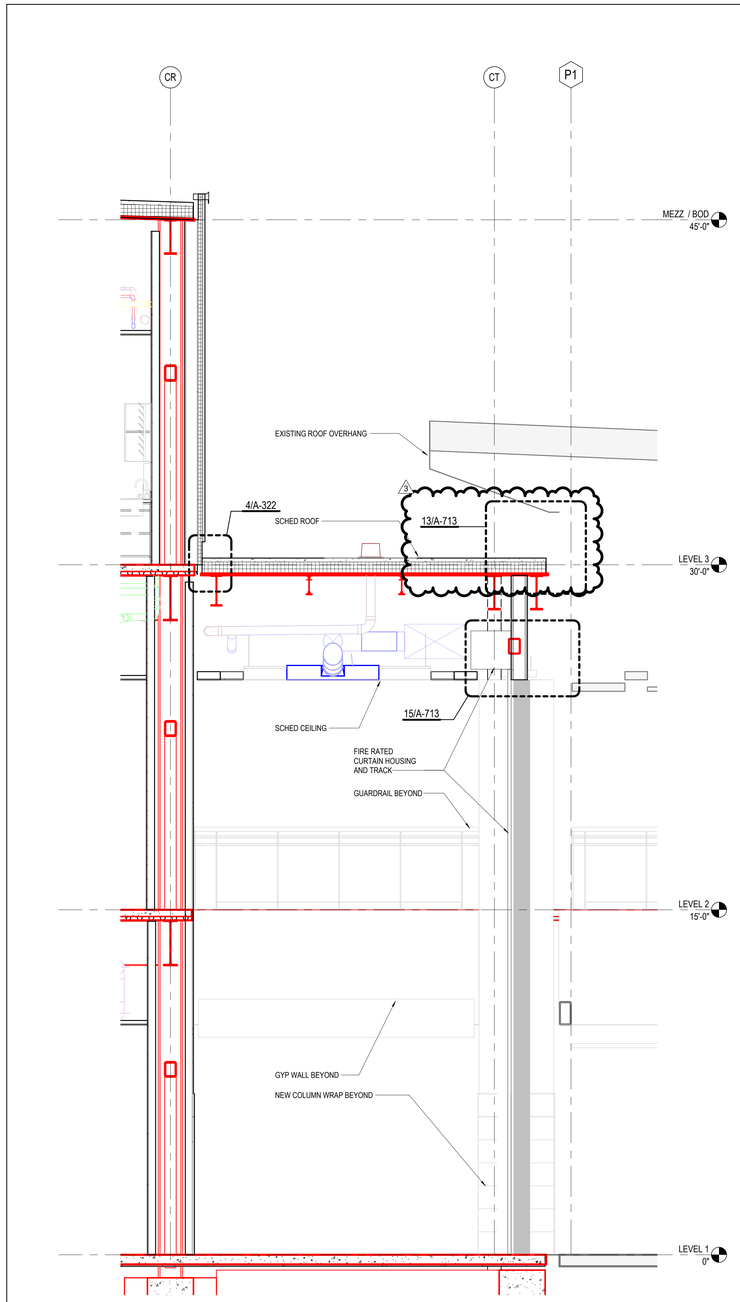
WALL SECTIONS

A-623

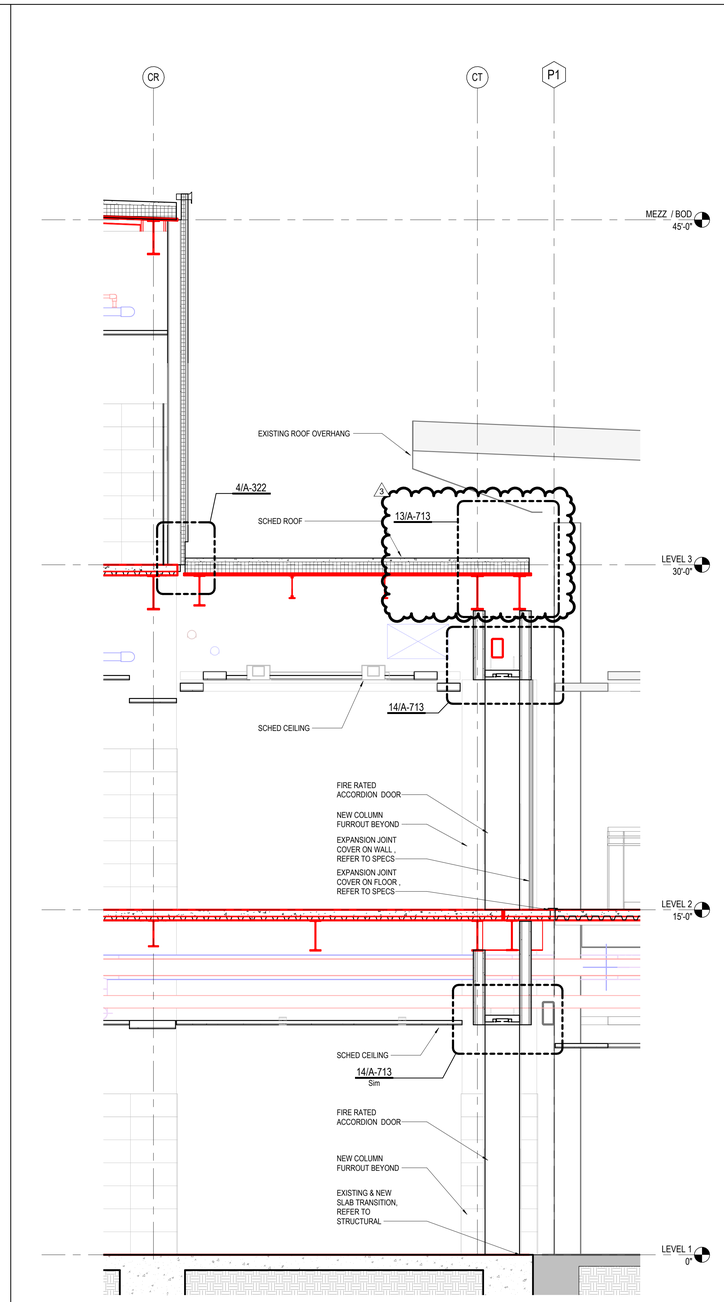
Plot Stamp:
1/8/2026 2:55:46 PM

0"
1"

WALL SECTIONS
A-628
FOR BLUEBEAM LABELING/DOOR:



02 WALL SECTION AT FIRE CURTAIN
3/8" = 1'-0"



01 WALL SECTION AT INTERIOR BRIDGE
3/8" = 1'-0"

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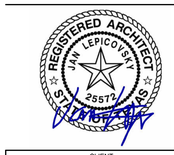
KEY PLAN
NORTH: PLAN TRUE



CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

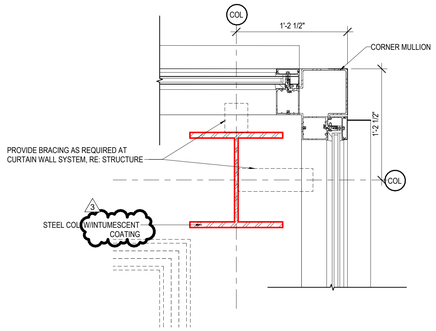
WALL SECTIONS

2
A-628

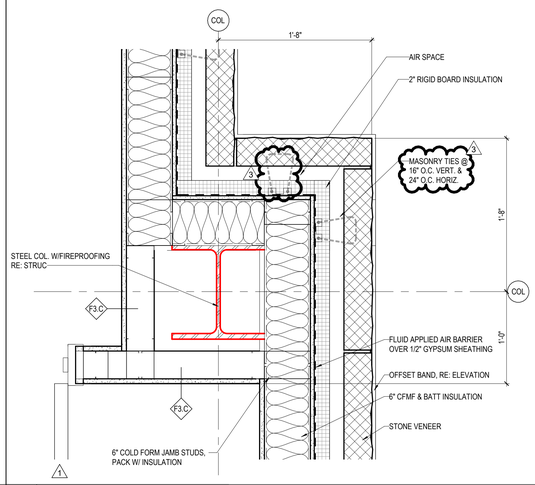
Plot Stamp:
1/8/2026 1:44:46 PM

PLAN DETAILS
A-701
FOR BLUEBEAM LABELING/DOOR:

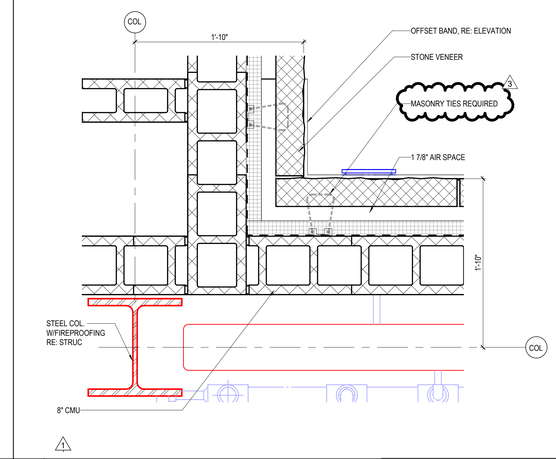
0"
1"



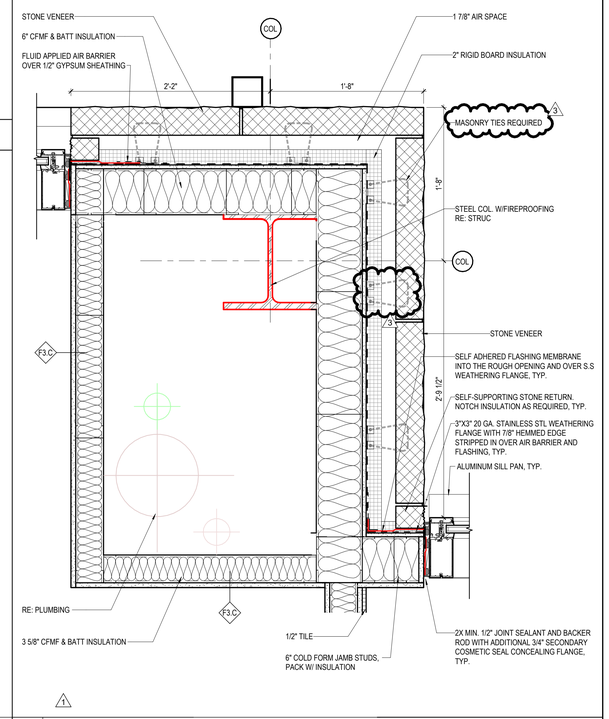
11 LEVEL 1 - AREA C - COLUMN @ STAIR
1 1/2" = 1'-0"



10 LEVEL 1 - AREA C - COLUMN @ STORAGE ROOM
1 1/2" = 1'-0"

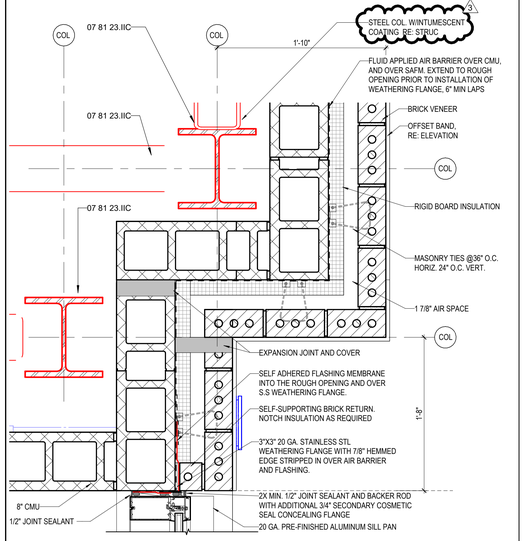


09 LEVEL 1 - AREA A - RESTROOM @ PLUMBING CHASE 02
1 1/2" = 1'-0"

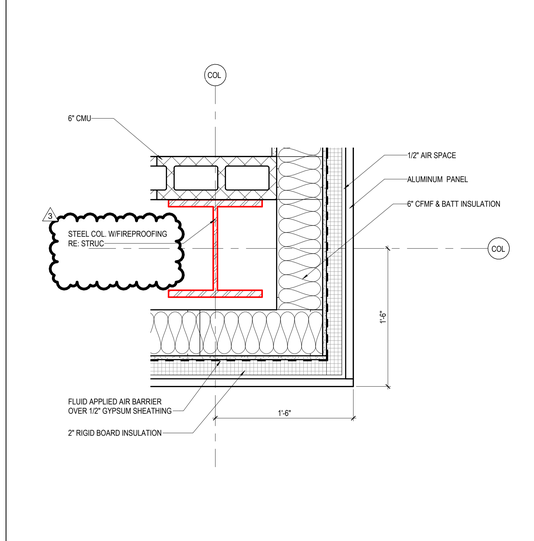


05 LEVEL 1 -EXTERIOR CORNER @ PLUMBING CHASE
1 1/2" = 1'-0"

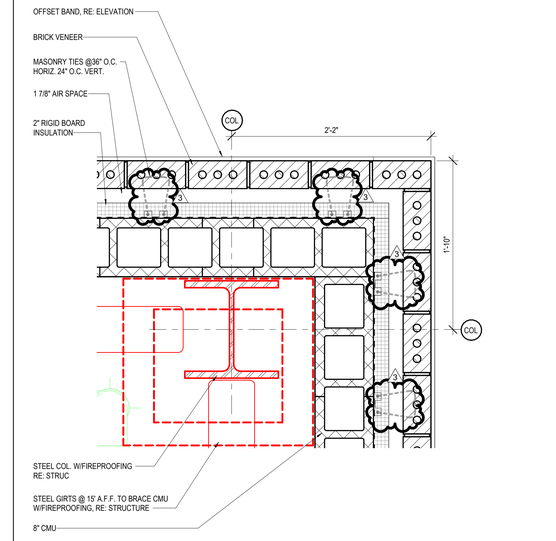
KEYNOTE LEGEND	
NUMBER	DESCRIPTION
07 81 23.IIC	INTERIOR INTUMESCENT COATING



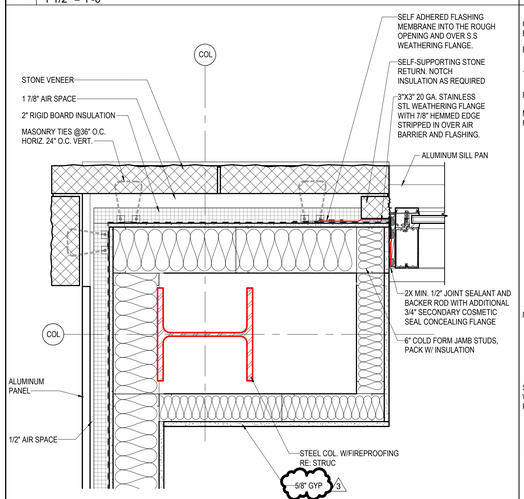
08 LEVEL 1 - AREA B FLOOR PLAN - COLUMN @ STAIR 02
1 1/2" = 1'-0"



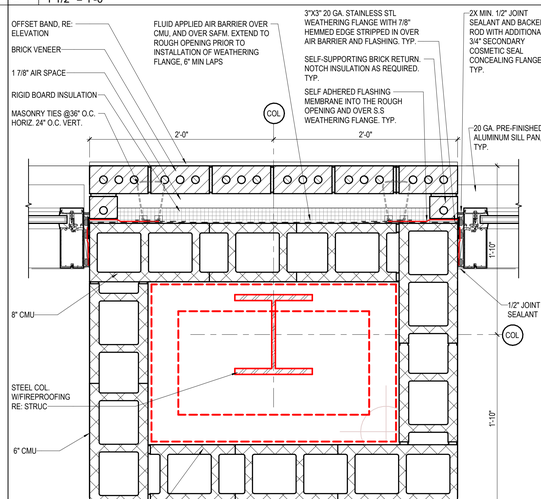
07 LEVEL 3 - AREA B - COLUMN @ STAIR
1 1/2" = 1'-0"



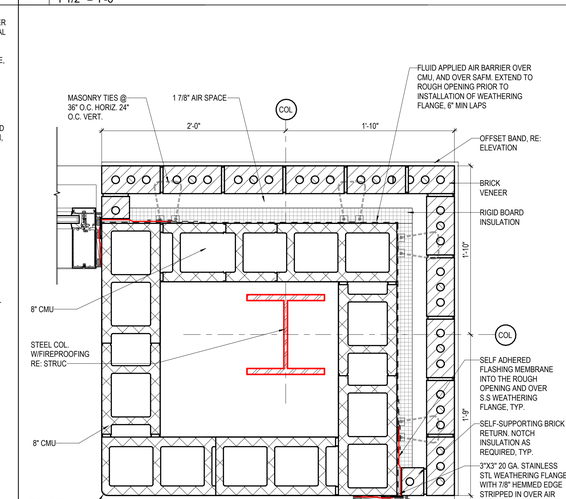
06 LEVEL 1 - AREA A - RESTROOM @ PLUMBING CHASE 01
1 1/2" = 1'-0"



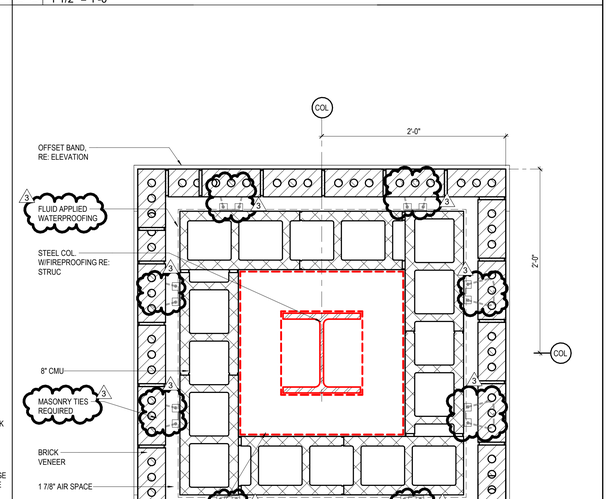
04 LEVEL 1 - AREA F FLOOR PLAN - COLUMN WRAP @ LIBRARY
1 1/2" = 1'-0"



03 LEVEL 1 - AREA A - CMU COLUMN WRAP
1 1/2" = 1'-0"



02 LEVEL 1 - AREA A - OUTSIDE CORNER
1 1/2" = 1'-0"



01 LEVEL 1 - AREA A - EXTERIOR COLUMN
1 1/2" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
3	ADD 05	2026/09/01

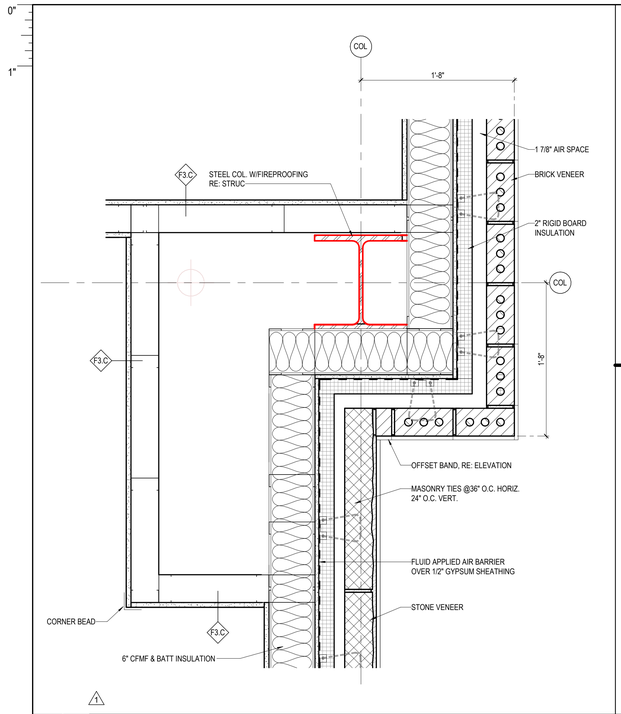
CHECKED BY: Checker
DRAWN BY: Author

PLAN DETAILS

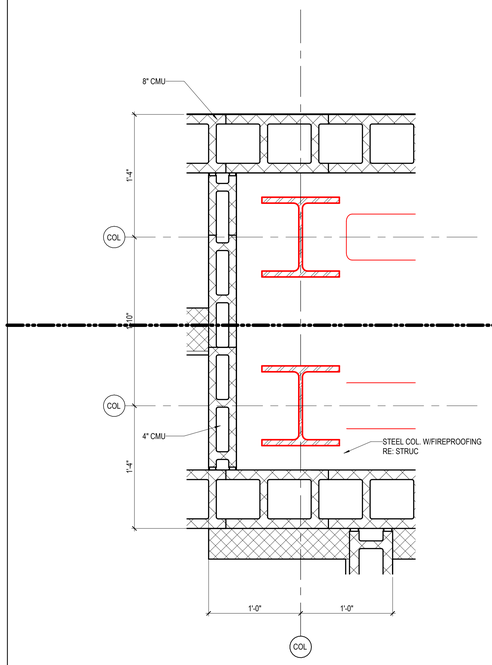
A-701

Plot Stamp:
1/8/2026 1:44:59 PM

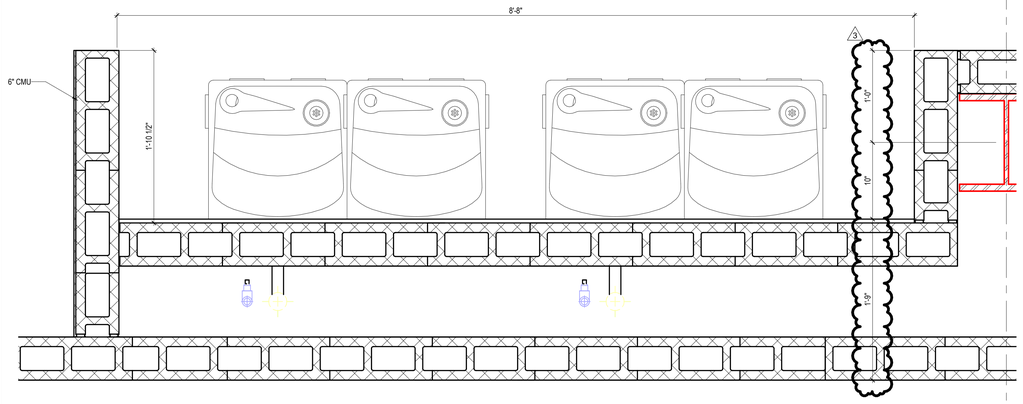
PLAN DETAILS
A-703
FOR BLUEBEAM LABELING/DOOR:



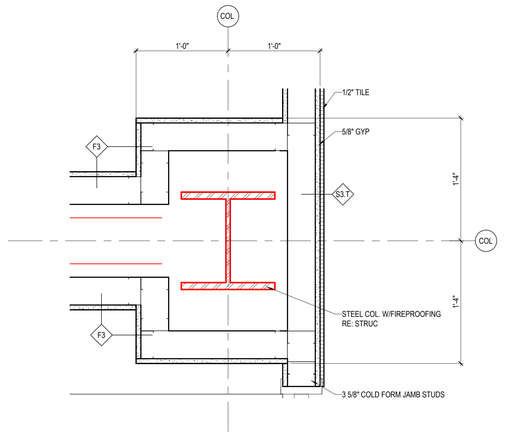
08 LEVEL 1 - AREA D - EXTERIOR BUMPOUT @ PLUMBING CHASE
1 1/2" = 1'-0"



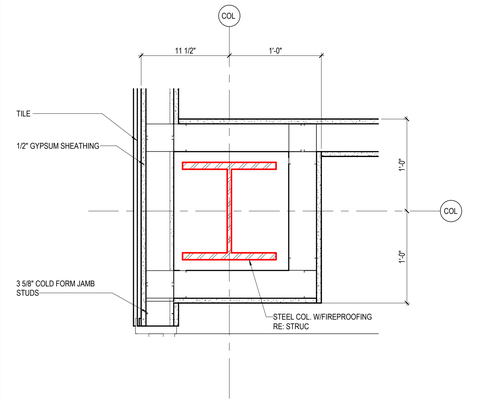
07 LEVEL 2 - AREA B - COLUMN
1 1/2" = 1'-0"



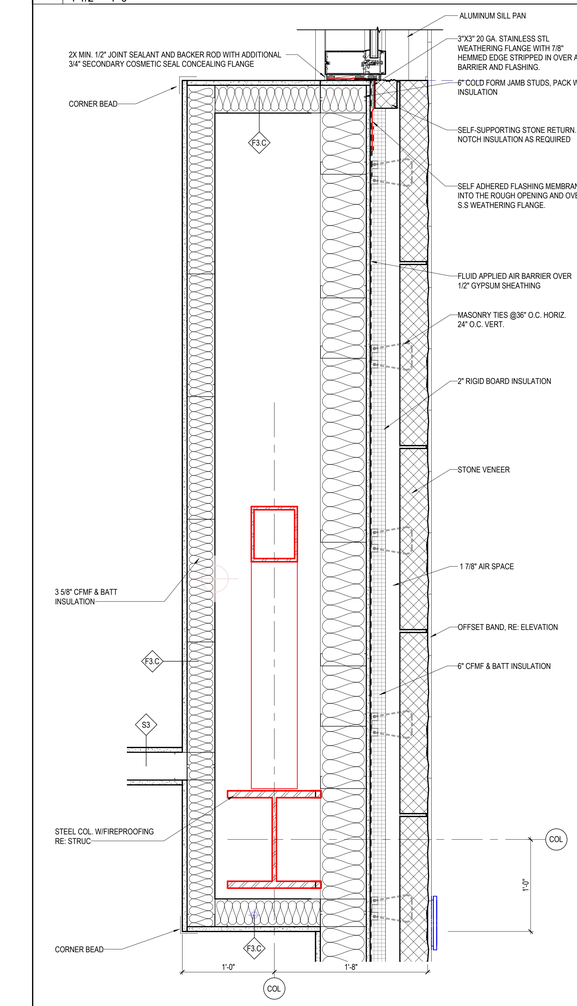
09 TYP. DRINKING FOUNTAIN
1 1/2" = 1'-0"



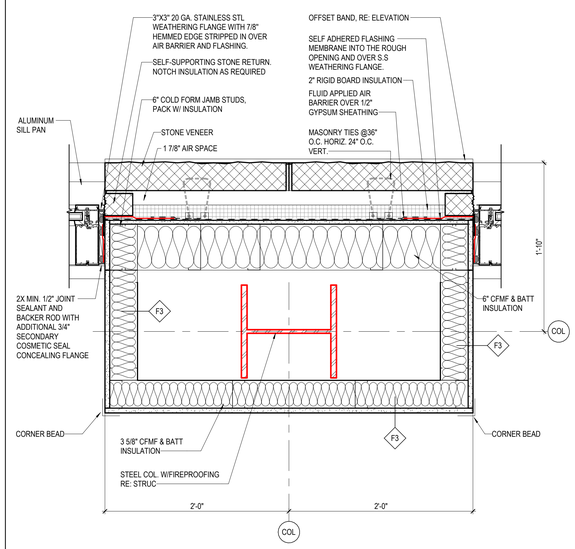
06 COLUMN AND BEAM WRAP
1 1/2" = 1'-0"



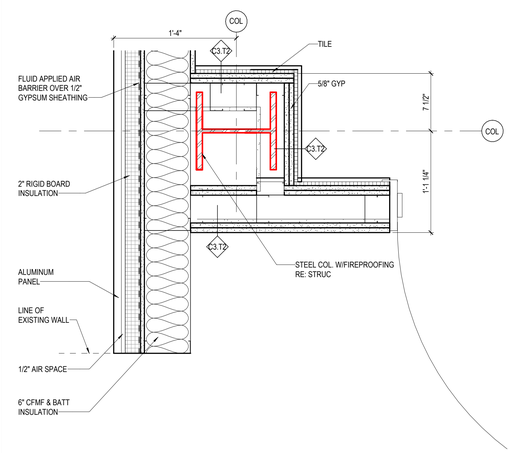
05 TYP. COLUMN WRAP
1 1/2" = 1'-0"



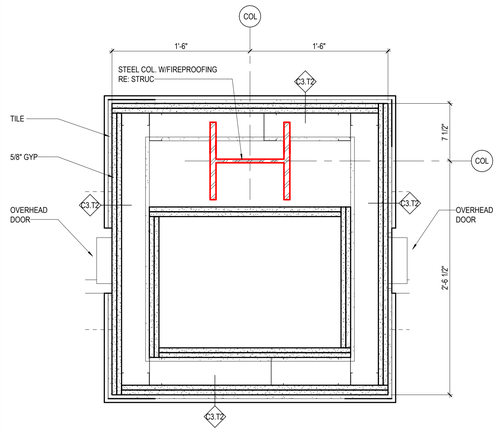
04 LEVEL 1 - AREA C - STRUCTURAL BEAM WRAP
1 1/2" = 1'-0"



03 LEVEL 1 - AREA F - COLUMN WRAP @ CW
1 1/2" = 1'-0"



02 LEVEL 1 - AREA F - COLUMN WRAP @ EXT WALL
1 1/2" = 1'-0"



01 LEVEL 1 - AREA F - COLUMN WRAP @ OVERHEAD DOORS
1 1/2" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN EPICOSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

PLAN DETAILS

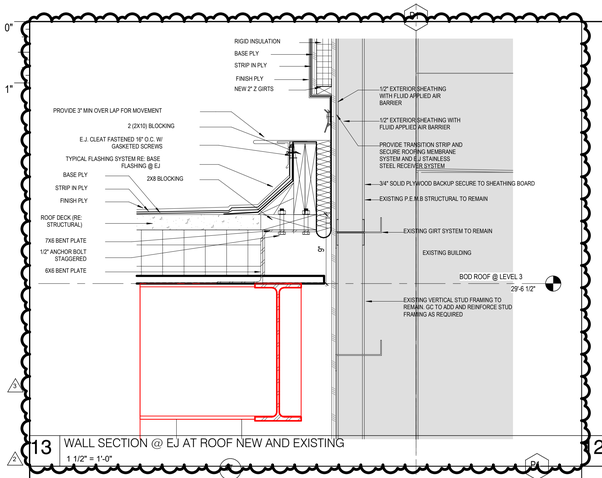
A-703

Plot Stamp:
1/8/2026 1:45:07 PM

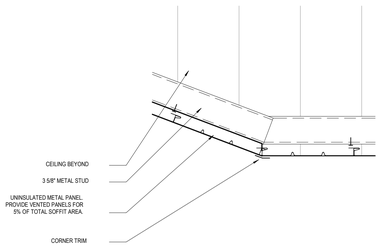
METAL PANEL WALL SECTION DETAILS

A-713

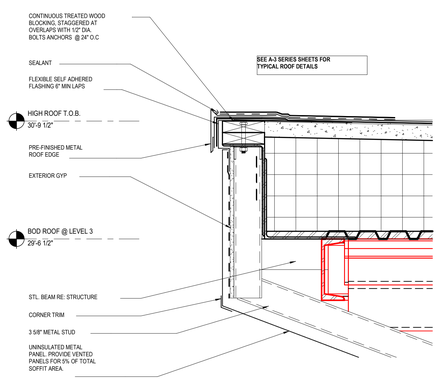
FOR BLUEBEAM LABELING/DOCR:



13 WALL SECTION @ EJ AT ROOF NEW AND EXISTING
1 1/2" = 1'-0"

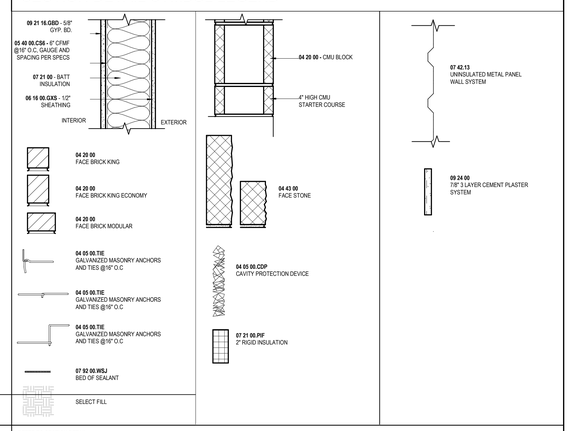


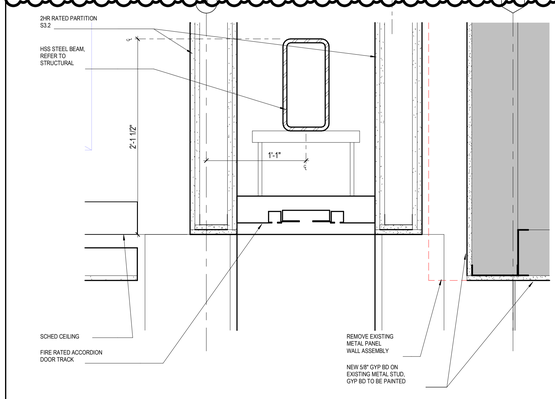
12 WALL SECTION @ GYM ENTRANCE CANOPY DETAIL - MIDPOINT
1 1/2" = 1'-0"



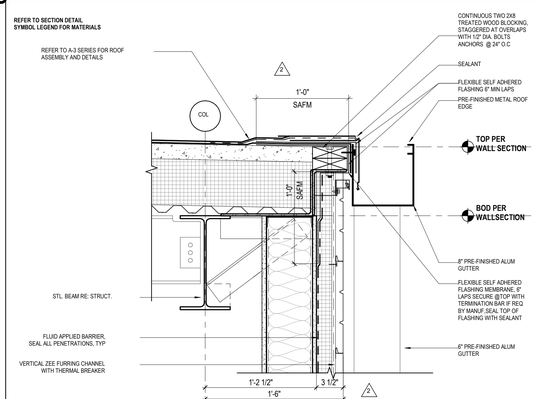
11 WALL SECTION @ ROOF EDGE GYM ENTRANCE CANOPY DETAIL
1 1/2" = 1'-0"

SECTION DETAIL SYMBOL LEGEND

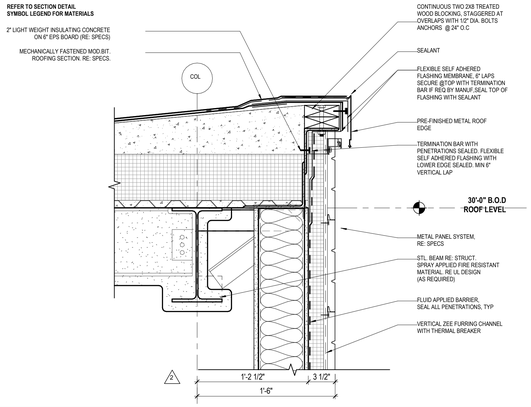




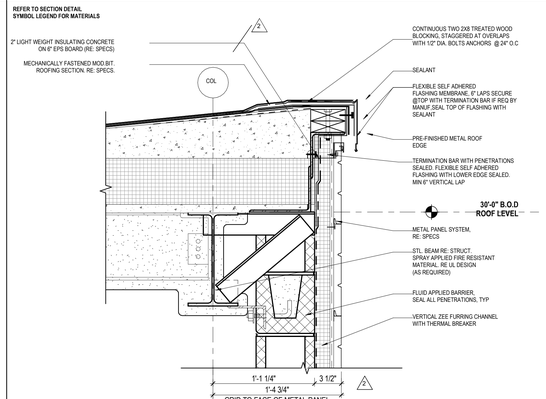
14 SECTION DETAIL @ FIRE RATED ACCORDION FOLDING FIRE DOORS
1 1/2" = 1'-0"



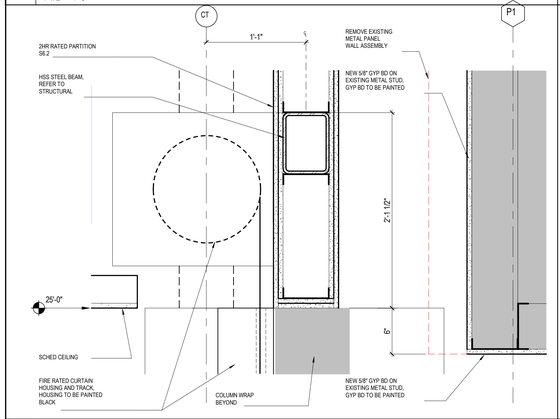
10 ROOF EDGE WITH CFMF GUTTER AND DOWNSPOUT
1 1/2" = 1'-0"



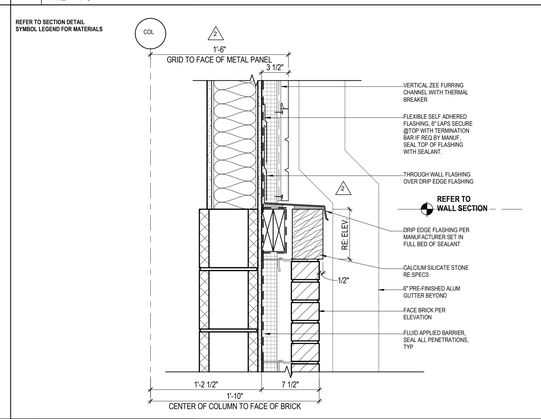
09 ROOF EDGE WITH CFMF GUTTER AND INTERNAL ROOF DRAIN
1 1/2" = 1'-0"



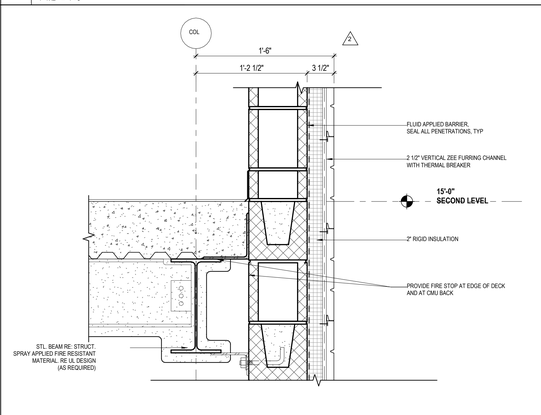
08 ROOF EDGE WITH CMU GUTTER AND INTERNAL ROOF DRAIN
1 1/2" = 1'-0"



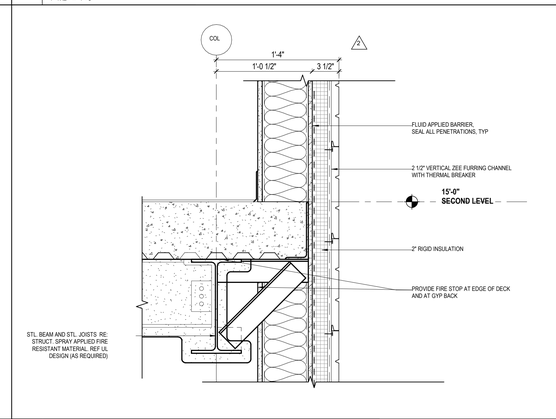
15 SECTION DETAIL @ FIRE RATED CURTAINS
1 1/2" = 1'-0"



05 BRICK TRANSITION TO METAL PANEL ON CMU
1 1/2" = 1'-0"



04 SLAB EDGE CMU
1 1/2" = 1'-0"



03 SLAB EDGE CFMF
1 1/2" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN

NORTH: PLAN TRUE

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker

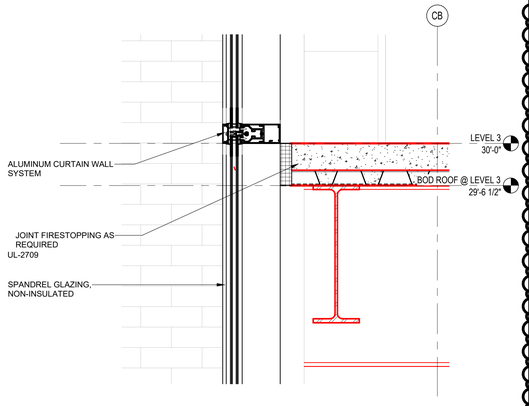
DRAWN BY: Author

METAL PANEL WALL SECTION DETAILS

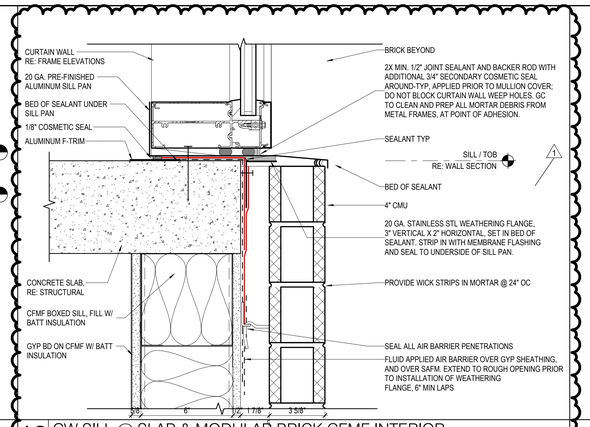
A-713

Plot Stamp:
1/8/2026 2:15:04 PM

CURTAINWALL DETAILS AT MASONRY VENEER
A-723
FOR BLUEBEAM LABELING/DOOR:

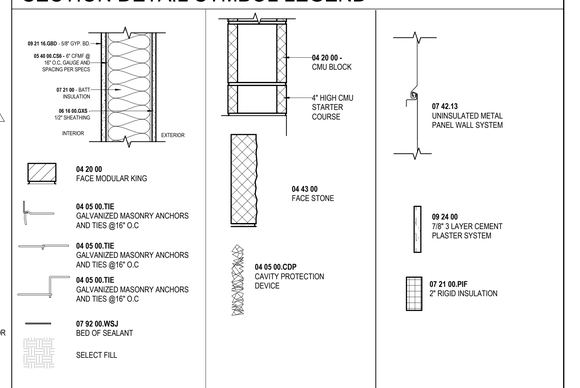


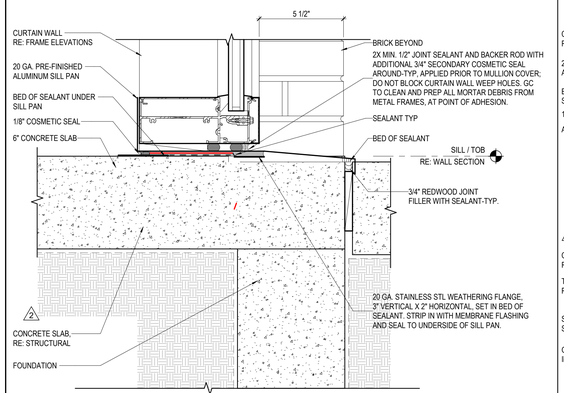
12 CURTAIN WALL AT FLOOR EDGE - FIRESAFE DETAIL
1 1/2" = 1'-0"



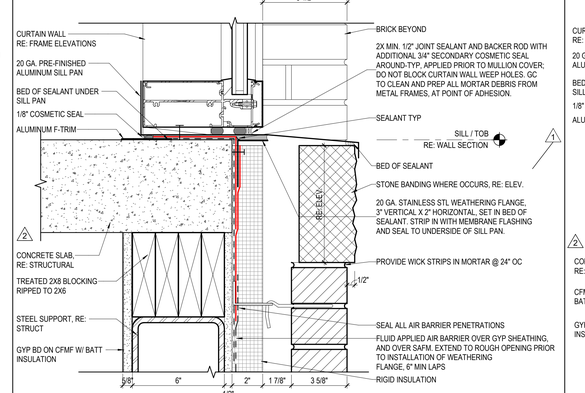
13 CW SILL @ SLAB & MODULAR BRICK CFMF INTERIOR
3" = 1'-0"

SECTION DETAIL SYMBOL LEGEND

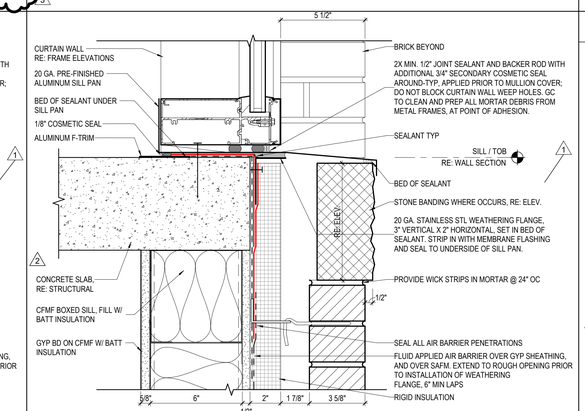




11 CW BASE @ SLAB & FOUNDATION
3" = 1'-0"



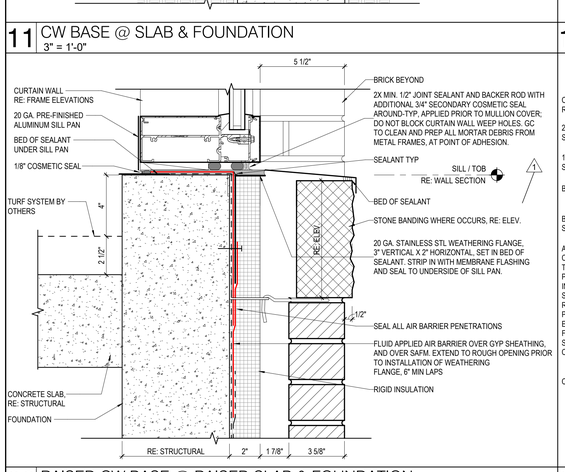
10 CW SILL @ SLAB & MODULAR BRICK CFMF STL POST
3" = 1'-0"



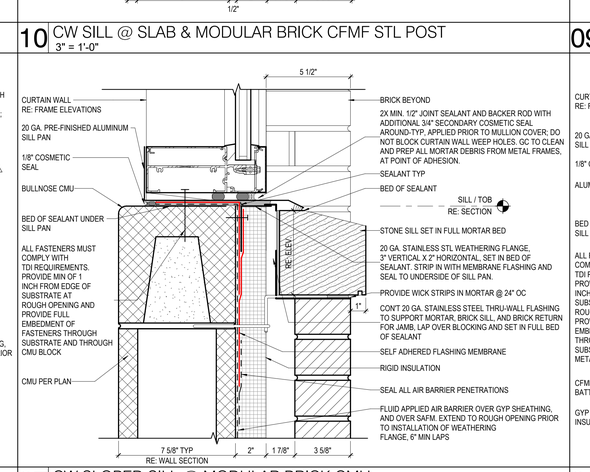
09 CW SILL @ SLAB & MODULAR BRICK CFMF
3" = 1'-0"

06 CW SLOPED SILL @ MODULAR BRICK CFMF
3" = 1'-0"

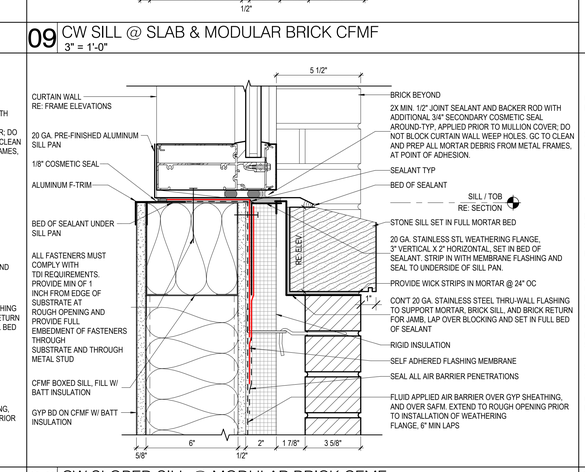
05 CW SLOPED SILL @ MODULAR BRICK CFMF STL POST
3" = 1'-0"



08 RAISED CW BASE @ RAISED SLAB & FOUNDATION
3" = 1'-0"

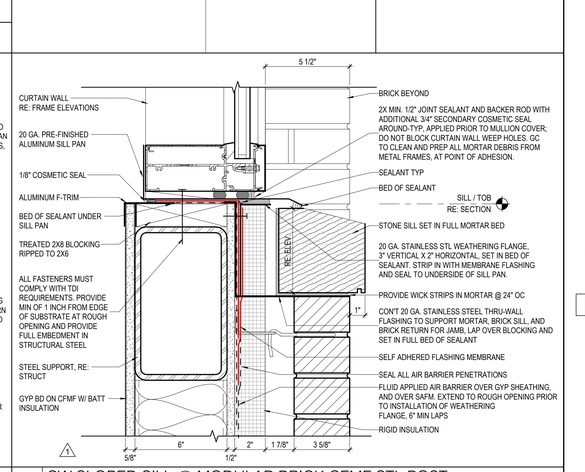


04 CW BASE @ RAISED SLAB & FOUNDATION
3" = 1'-0"



07 CW SLOPED SILL @ MODULAR BRICK CMU
3" = 1'-0"

03 CW SILL @ MODULAR BRICK CMU
3" = 1'-0"



02 CW SILL @ MODULAR BRICK CFMF
3" = 1'-0"

01 CW SILL @ MODULAR BRICK CFMF STL POST
3" = 1'-0"

Plot Stamp:
1/8/2026 1:45:18 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St,
Galena Park, TX 77547
ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

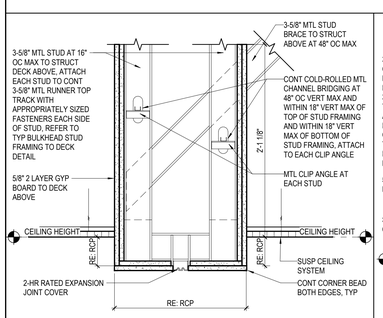
CHECKED BY: Checker
DRAWN BY: Author

CURTAINWALL DETAILS AT MASONRY VENEER

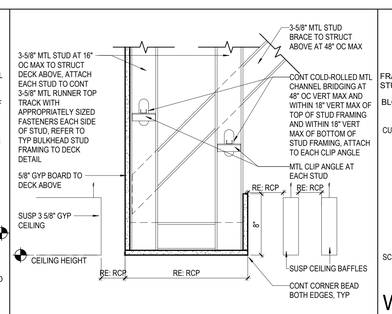
A-723

CEILING DETAILS
A-731
FOR BLUEBEAM LABELING/OCR:

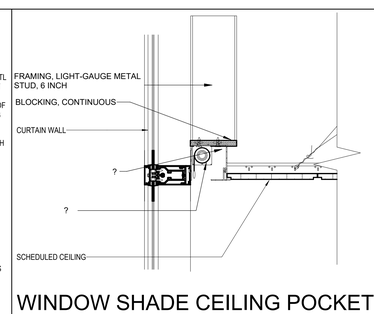
0"
1"



17 CEILING DETAIL 16
1 1/2" = 1'-0"

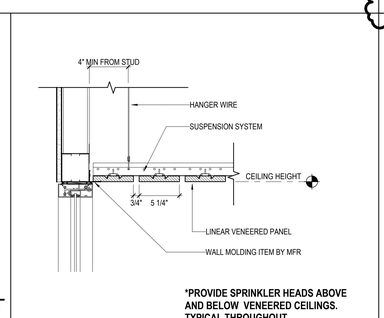


16 CEILING DETAIL 15
1 1/2" = 1'-0"



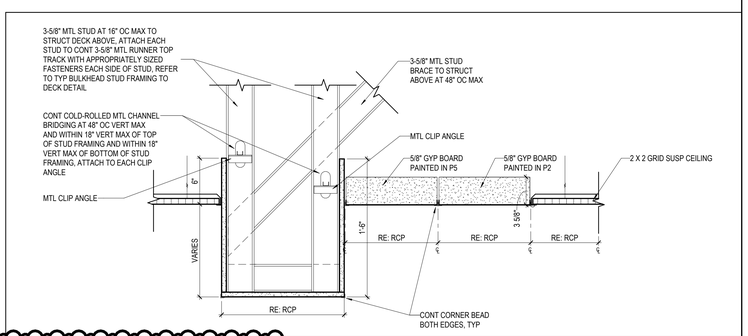
WINDOW SHADE CEILING POCKET

15 CEILING DETAIL 14
1 1/2" = 1'-0"

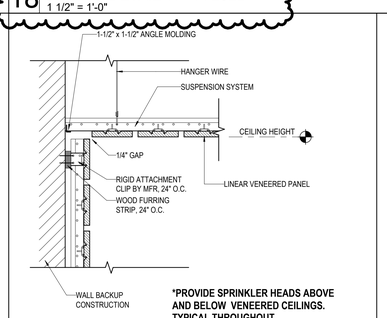


***PROVIDE SPRINKLER HEADS ABOVE AND BELOW VENEERED CEILINGS. TYPICAL THROUGHOUT.**

14 CEILING DETAIL 13
1 1/2" = 1'-0"

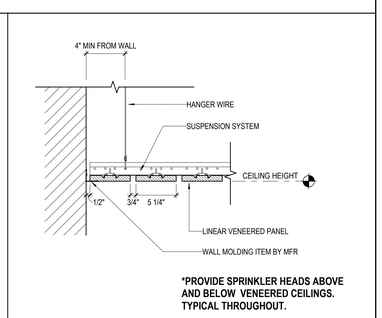


18 CEILING DETAIL 17 - A-202D
1 1/2" = 1'-0"



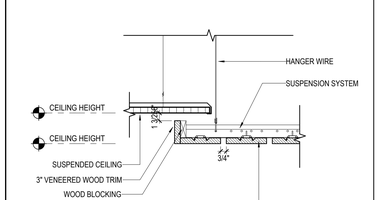
***PROVIDE SPRINKLER HEADS ABOVE AND BELOW VENEERED CEILINGS. TYPICAL THROUGHOUT.**

13 CEILING DETAIL 12
1 1/2" = 1'-0"



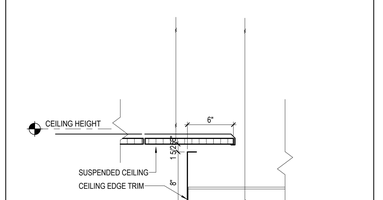
***PROVIDE SPRINKLER HEADS ABOVE AND BELOW VENEERED CEILINGS. TYPICAL THROUGHOUT.**

12 CEILING DETAIL 11
1 1/2" = 1'-0"

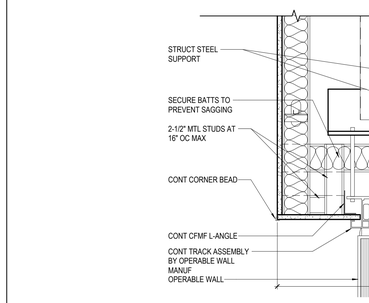


***PROVIDE SPRINKLER HEADS ABOVE AND BELOW VENEERED CEILINGS. TYPICAL THROUGHOUT.**

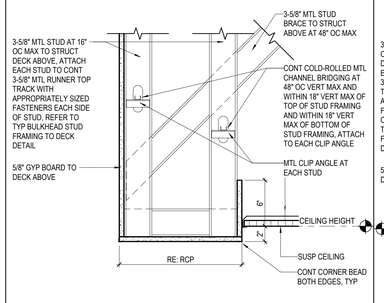
11 CEILING DETAIL 10
1 1/2" = 1'-0"



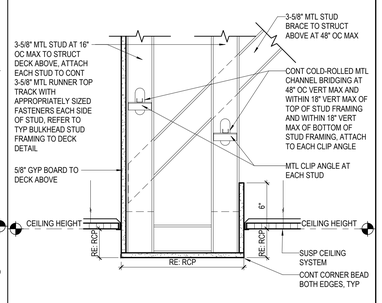
10 CEILING DETAIL 9
1 1/2" = 1'-0"



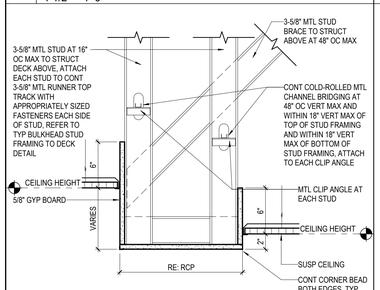
09 CEILING DETAIL - OPERABLE PARTITION
1 1/2" = 1'-0"



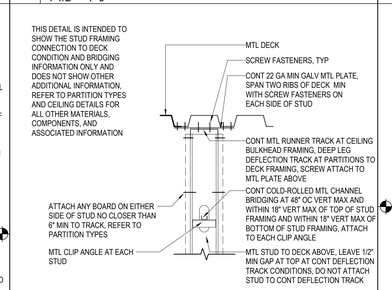
08 CEILING DETAIL 8
1 1/2" = 1'-0"



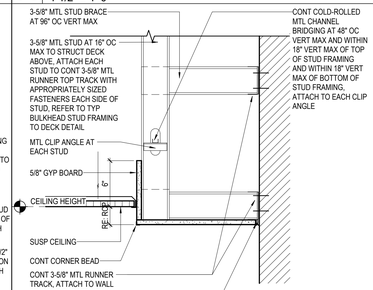
07 CEILING DETAIL 7
1 1/2" = 1'-0"



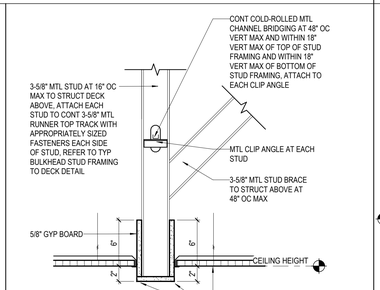
06 CEILING DETAIL 6
1 1/2" = 1'-0"



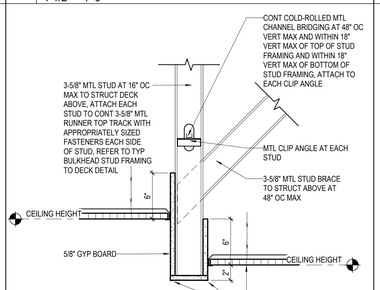
05 TYP BULKHEAD STUD FRAMING TO DECK
1 1/2" = 1'-0"



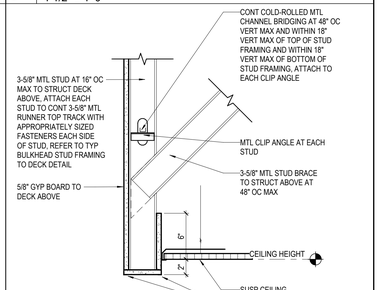
04 CEILING DETAIL 4
1 1/2" = 1'-0"



03 CEILING DETAIL 3
1 1/2" = 1'-0"



02 CEILING DETAIL 2
1 1/2" = 1'-0"



01 CEILING DETAIL 1
1 1/2" = 1'-0"

Plot Stamp:
1/8/2026 1:45:20 PM

PBK
HOUSTON, TX
713-865-0008
TX FIRM: BR 1608
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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
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Galena Park, TX 77547
ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE IN ALL FOR ALL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

CEILING DETAILS

A-731

DOOR SCHEDULE LEVEL 1
A-810
FOR BLUEBEAM LABELING/DOOR:

DOOR SCHEDULE REMARKS

1. ELEC. DOOR OPENER W/ HC BUTTON ON INSIDE AND OUTSIDE OF DOOR
2. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
3. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
4. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
5. DOOR BUZZER
6. DOOR CHIME ON OPEN
7. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
8. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
9. SOUND DOOR
10. PANIC DEVICE
11. REFER TO STOREFRONT OR CURTAIN WALL ELEVATIONS

OPERABLE WALLS, OVERHEAD DOORS AND GRILLES

12. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
13. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMBLY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
14. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
15. MANUAL OPERATION
16. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
17. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
18. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
19. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION U.N.O.
20. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION

DOOR SCHEDULE

DOOR NUMBER	DATA TO ROOM NAME	DOOR WIDTH	DOOR HEIGHT	PANEL TYPE	PANEL MATL	PANEL FINISH	FRAME TYPE	FRAME MATL	FRAME FINISH	GENERAL FIRE RATING	GENERAL HARDWARE SET	GENERAL 2. REMARKS
LEVEL 1												
ATHLETICS												
1500A	GYM LOBBY	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			2, 10, 11
1500B	GYM LOBBY	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
1500C	GYM LOBBY	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
1500D	GYM LOBBY	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			2, 10, 11
1500E	GYM LOBBY	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			10, Horizontal Blinds
1500F	GYM LOBBY	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			10, Horizontal Blinds
1501	WOMEN'S RR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1502	GYM STORAGE	4'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1503	GYM LOBBY	3'-0"	6'-10"	F	WS	PLAM - Black	001	ALUM	CLR ANO			2
1504	TICKET BOOTH	3'-0"	6'-10"	F	WS	PLAM - Black	001	ALUM	CLR ANO			2
1504.1	TICKET BOOTH STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1505	CONCESSIONS	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			2
1505A	CONCESSION STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1505B	GYM LOBBY	6'-0"	4'-2"	OHCS	ALUM	CLR ANO	001	ALUM	CLR ANO			
1506	MEN'S RR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1507	STAIR 01	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			10, Horizontal Blinds
1507A	STAIR 02	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			10, Horizontal Blinds
1510	OFFICIAL FLEX OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1511	STAIR 01	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1511.1	VISITOR / FLEX ROOM	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1512	ELECTRICAL	4'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1513	VOLLEYBALL/BASKETBALL STORAGE	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1515	CORRIDOR	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1515B	CORRIDOR	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1515C	MAIN WEIGHT ROOM	8'-0"	8'-0"	OHCS	ALUM	PWD COATED	001	ALUM	PWD COATED			
1516	CORRIDOR	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1517	GIRLS RR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1518	OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1519	CORRIDOR	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1520	TRAINERS	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1520.1	CART STORAGE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1520.1A	CART STORAGE	12'-9"	9'-0"	OHCS	ALUM	PWD COATED	001	ALUM	PWD COATED			
1522	OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1523	OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1524	CORRIDOR	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1524.1	CORRIDOR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			2
1524.2	FLEX OFF.	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1525	OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1526	CORRIDOR	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1527	CUSTODIAL	4'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1528	HEAD COACH GIRLS SPORTS	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1529	GIRLS SPORTS COACHES OFFICE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1529.2	COACHES RR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1529A	GIRLS SPORTS COACHES OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1530	GIRLS PE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1531	GIRLS BASKETBALL	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1531.1	STORAGE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1533	TRACK / CROSS COUNTRY	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1533.1	STORAGE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1534	GIRLS VOLLEYBALL	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1534.1	STORAGE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1535	CHEERLEADING	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1535.1	STORAGE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1536		3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			10
1536A	STAIR 04	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2	1-HR		
1537	GIRLS GOLF	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1538	GIRLS SOCCER	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1538.1	STORAGE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1539	HEAD COACH BOYS SPORTS	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1540	BOYS PE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1541	BOYS SPORTS COACHES OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1541.1	COACHES RR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1541A	BOYS SPORTS COACHES OFFICE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1543	BOYS LAUNDRY	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
1544	PUMP ROOM	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1545	CORRIDOR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			2
1546	BOYS BASKETBALL	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1546.1	STORAGE	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1547	BOYS GOLF STOR.	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1548	CORRIDOR	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1549	BOYS GOLF & CROSS COUNTRY	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1550		3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			2, 10
1550.1	MECHANICAL	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2	1-HR		
1550A	STAIR 03	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2	1-HR		
C1508	CORRIDOR	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			2, 10, 11
C1508.1	CORRIDOR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
C1508.2	CORRIDOR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
C1508.3	CORRIDOR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
C1508.4	CORRIDOR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
C1508A	CORRIDOR	6'-1 15/256"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
C1508C	CORRIDOR	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			2, 10, 11
C1508D	CORRIDOR	6'-0"	7'-3"	FG-1	ALUM	DB ANO	NONE	-	-			2, 10, 11
ATHLETICS: 83												
ACADEMICS												
1100		6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE					10, 11
1100A		6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
1100B		18'-4"	9'-8"	FG-1	ALUM	DB ANO	NONE	ALUM	DB ANO			Vertically Folding Glass Door
1100C	MP STAGE	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
1100D	MP SPACE	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
1101A	STAIR 09	5'-11 3/4"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
1102	RESOURCE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1103	LIFE SKILLS	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1104	BEHAVIOR ROOM	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1104.1	STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1105	RESTROOM	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1106	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO	2-HR		2
1107	MOCK LIVING	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1107.1	RESTROOM	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1107.2	STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1108	BEHAVIOR ROOM	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1108.1	STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1109	GIRLS RR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1110	STAFF RR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1111	18+ STUDENTS	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1112	BOYS RR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1113	COLLAB. FLEX ROOM	6'-0"	6'-10"	FG-1	CLR ANO	ALUM	NONE	-	-			
1113A	MP SPACE	6'-0"	6'-10"	FG-1	CLR ANO	ALUM	NONE	-	-			
1114	LIFE SKILLS	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1114.1	LIFE SKILLS	4'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1114.1A	MOCK LIVING	4'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1115	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO	2-HR		
1116	LIFE SKILLS	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1116.1	STORAGE	4'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1116.1A	LIFE SKILLS	4'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			

DOOR SCHEDULE

DOOR NUMBER	DATA TO ROOM NAME	DOOR WIDTH	DOOR HEIGHT	PANEL TYPE	PANEL MATL	PANEL FINISH	FRAME TYPE	FRAME MATL	FRAME FINISH	GENERAL FIRE RATING	GENERAL HARDWARE SET	GENERAL 2. REMARKS
1117	CORRIDOR	6'-0"	6'-10"	F	HM	PL-1	001	HM	PT-2			
1118		3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			2
1119	RR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1120	DIAG.	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1121	COORDINATOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1122	SPEECH	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1123	ARD CONFERENCE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1123.1	STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1124	LSSP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1125	CLERK	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1127	SCHOOL BOOK ROOM	3'-0"	6'-10"	F	WS	PL-1	001	HM	CLR ANO			
1128	MAIN STREET	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO	2-HR		
1129	MAIN STREET	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO	2-HR		2
1131		6'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1131.1		6'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1131.3		6'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1131.3A	TEMP BAND	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1132	TESTING OFFICE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1132.1	TESTING OFFICE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1133	PLC / WORK ROOM	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1133A	PLC / WORK ROOM	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1134A	MAIN STREET	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1135	VESTIBULE	16'-0"	7'-5 3/4"	SL-BA : -	CLR ANO	CLR ANO		-	-			
1136A	MAIN STREET	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1137	TECHNICAL STORAGE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1138	MAIN STREET	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO	2-HR		2
1139	AP OFFICE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1140	ENGLISH 13	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1141	ENGLISH #1	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1142		3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			2, Horizontal Blinds
1142.1	BREAKROOM	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1143	ENGLISH #2	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1145	ENGLISH #12	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1146	ENGLISH #3	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1147	ENGLISH #4	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1148		6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
1149	ENGLISH #5	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1150A	CORRIDOR	6'-0"	6'-10"	FG-1	ALUM	CLR ANO	NONE	-	-			
1150B	COLLAB. FLEX ROOM	6'-0"	6'-10"	FG-1	ALUM	CLR ANO	NONE	-	-			
1151	ENGLISH #6	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1152	BOYS RR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1153	RESTROOM	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1154	GIRLS RR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1155	ENGLISH #11	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1156	ENGLISH #7	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1157	ENGLISH #10	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1158	ENGLISH #8	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1158.1	ENGLISH #8	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
1159	ENGLISH #9	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
1160	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO	2-HR		
1161A		6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			10, 11
1116.2	MAIN STREET	12'-0"	9'-0"	OHCS	ALUM	CLR ANO	00CF	ALUM	CLR ANO			
1116.2	CORRIDOR	15'-6"	9'-0"	OHCS	ALUM	CLR ANO	00CF	ALUM	CLR ANO			
C1100	MAIN STREET	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2	2-HR		MAIN STREET
C1100.1	CORRIDOR	6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			2, 10, 11
C1100.2		6'-0"	6'-10"	FG-1	ALUM	DB ANO	NONE	-	-			2, 10, 11
C1100A	MAIN STREET	6'-0"	6'-10"	HSL	ALUM	CLR ANO	001	ALUM	CLR ANO			
C1103	MAIN STREET	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
ACADEMICS: 89												
1100.2		16'-0"	9'-0"	OHCS	WS	<By Category>	00CF	HM	<By Category>			
C1000N		8'-0"	7'-0"	FG-1	ALUM	DB ANO	NONE	-	-			1, 2, 10, 11
: 2												
LEVEL 1: 174												
LEVEL 2												
ATHLETICS												
2503	CUSTODIAL	4'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2505	STAIR 10	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2506	TEAM LOUNGE	3'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds

HORIZONTAL SLIDING FIRE DOOR & FIRE CURTAIN SCHEDULE

DOOR NUMBER	DATA TO ROOM NAME	DOOR WIDTH	DOOR HEIGHT	PANEL TYPE	PANEL MATL	PANEL FINISH	FRAME TYPE	FRAME MATL	FRAME FINISH	GENERAL FIRE RATING	GENERAL HARDWARE SET	GENERAL REMARKS
LEVEL 1												
ACADEMICS												
FS1	MAIN STREET	17'-0"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	<By Category>	2-HR		
FS2	MAIN STREET	15'-6"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS3	MAIN STREET	23'-5"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS4	MAIN STREET	10'-7"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS5	MAIN STREET	23'-11"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS6	MAIN STREET	27'-2"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS7	MAIN STREET	27'-2"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS8	MAIN STREET	32'-11"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS9	MAIN STREET	26'-11"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS10	MAIN STREET	31'-4"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS11	MAIN STREET	31'-2"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS12	MAIN STREET	12'-0"	25'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS13	MAIN STREET	12'-5"	10'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FS14	MAIN STREET	16'-0"	10'-0"	OHRG	WS	Metal - Aluminum, Brushed	00CF	HM	Metal - Aluminum, Brushed	2-HR		
FSD1	CORRIDOR	12'-9"	10'-0"	OHCG	Steel	Metal - Won Door - #33 Toast - Steel V-grooved		Steel	Stainless Steel	2-HR		
FSD2	STAIR 07	11'-0"	10'-0"	OHCG	Steel	Metal - Won Door - #33 Toast - Steel V-grooved		Steel	Stainless Steel	2-HR		
FSD3	MAIN STREET	15'-4"	10'-0"	OHCG	Steel	Metal - Won Door - #33 Toast - Steel V-grooved		Steel	Stainless Steel	2-HR		ACCORDION FOLDING FIRE DOORS
FSD4	MAIN STREET	8'-4"	10'-0"	OHCG	Steel	Metal - Won Door - #33 Toast - Steel V-grooved		Steel	Stainless Steel	2-HR		ACCORDION FOLDING FIRE DOORS
FSD5	STAIR 06	11'-0"	10'-0"	OHCG	Steel	Metal - Won Door - #33 Toast - Steel V-grooved		Steel	Stainless Steel	2-HR		ACCORDION FOLDING FIRE DOORS
FSD6	STAIR 05	12'-9"	10'-0"	OHCG	Steel	Metal - Won Door - #33 Toast - Steel V-grooved		Steel	Stainless Steel	2-HR		ACCORDION FOLDING FIRE DOORS
ACADEMICS: 20												
LEVEL 1: 20												
LEVEL 2												
ACADEMICS												
FS22		16'-0"	10'-0"	OHRG	WS	<By Category>	00CF	HM	<By Category>	2-HR		ACCORDION FOLDING FIRE DOORS
FSD7	STAIR 09	12'-9"	10'-0"	OHCG	Steel	Metal - Won Door - #33 Toast - Steel V-grooved		Steel	Stainless Steel	2-HR		ACCORDION FOLDING FIRE DOORS
FSD8	STAIR 07	13'-1"	10'-0"	OHCG	Steel	Metal - Won Door - #33 Toast - Steel V-grooved		Steel	Stainless Steel	2-HR		ACCORDION FOLDING FIRE DOORS
FSD9	CORRIDOR	15'-4"	10'-0"	OHCG	Steel	Metal - Won Door - #33 Toast - Steel V-grooved		Steel	Stainless Steel	2-HR		ACCORDION FOLDING FIRE DOORS
FSD10		12'-6"	10'-0"	OHCG	Steel	Metal - Won Door - #33 Toast - Steel V-grooved		Steel	Stainless Steel	2-HR		ACCORDION FOLDING FIRE DOORS
FSD11	STAIR 06	11'-0"	10'-0"	OHCG	Steel	Metal - Won Door - #33 Toast - Steel V-grooved		Steel	Stainless Steel	2-HR		ACCORDION FOLDING FIRE DOORS
FSD12	STAIR 05	12'-9"	10'-0"	OHCG	Steel	Metal - Won Door - #33 Toast - Steel V-grooved		Steel	Stainless Steel	2-HR		ACCORDION FOLDING FIRE DOORS
ACADEMICS: 7												
FSD13	CORRIDOR	9'-0"	10'-0"	OHCG	Steel	Metal - Won Door - #33 Toast - Steel V-grooved		Steel	Stainless Steel	2-HR		ACCORDION FOLDING FIRE DOORS
FSD.2	SKYBRIDGE	15'-7 3/4"	17'-2"	OHCG	Steel	Metal - Won Door - #33 Toast - Steel V-grooved		Steel	Stainless Steel	2-HR		ACCORDION FOLDING FIRE DOORS
: 2												
LEVEL 2: 9											

DOOR SCHEDULE LEVEL 2 AND 3
A-811
FOR BLUEBEAM LABELING/DOOR:

DOOR SCHEDULE REMARKS

1. ELEC. DOOR OPENER W/ HC BUTTON ON INSIDE AND OUTSIDE OF DOOR
2. ELEC. CONTROLLED ACCESS HARDWARE WITH CARD READER
3. ELEC. CONTROLLED ACCESS HARDWARE WITH PUSH-BUTTON
4. ELEC. CONTROLLED ACCESS HARDWARE, ROUGH-IN ONLY
5. DOOR BUZZER
6. DOOR CHIME ON OPEN
7. MAGNETIC HOLD-OPEN, CONNECT TO FIRE ALARM
8. MAGNETIC HOLD-OPEN, CONNECT TO SECURITY SYSTEM
9. SOUND DOOR
10. PANIC DEVICE
11. REFER TO STOREFRONT OR CURTAIN WALL ELEVATIONS

OPERABLE WALLS, OVERHEAD DOORS AND GRILLES

12. SOUND RATED DOOR ASSEMBLY, STC AS SPECIFIED
13. WINDSTORM DOOR HARDWARE SHALL BE TESTED AS PART OF A COMPLETE DOOR OPENING ASSEMBLY. THE TESTED DOOR OPENING ASSEMBLY SHALL INCLUDE DOOR HARDWARE. THE ENTIRE DOOR OPENING, INCLUDING DOOR HARDWARE, SHALL BE BY DOOR MANUF.
14. ACOUSTICAL GLASS TO MEET FIRE DOOR ASSEMBLY REQUIREMENTS FOR FIRE RATING INDICATED
15. MANUAL OPERATION
16. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON ONE SIDE OF DOOR ONLY
17. ELEC MOTOR OPERATION WITH KEY SWITCH CONTROL, KEY SWITCH ON BOTH SIDES OF DOOR
18. ELEC MOTOR OPERATION WITH PUSH-BUTTON CONTROL ON ONE SIDE OF DOOR ONLY
19. AUTOMATIC OPEN ON FIRE ALARM ACTIVATION U.N.O.
20. AUTOMATIC CLOSE ON FIRE ALARM ACTIVATION

2 DOOR SCHEDULE

DOOR	DATA	DOOR		PANEL			FRAME			GENERAL		
NUMBER	TO ROOM NAME	WIDTH	HEIGHT	TYPE	MATL	FINISH	TYPE	MATL	FINISH	FIRE RATING	HARDWARE SET	2 REMARKS
2507	MEN'S RR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2508	WOMEN'S RR	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2510	CORRIDOR	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			10, Horizontal Blinds
2510.1	P.E. STORAGE	4'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2510.2	AUXILIARY GYM A	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2	2-HR		2
2510A	CORRIDOR	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			10, Horizontal Blinds
2511	CORRIDOR	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2512.1	AUXILIARY GYM B	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2512.2	MECHANICAL	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2	1-HR		
2512.2B	AUXILIARY GYM B	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2512.3	STAIRS 03	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			10
2513	CORRIDOR	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			10, Horizontal Blinds
2513	STAIRS 04	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2513A	AUXILIARY GYM B	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			10
2513A	STAIRS 04	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			10, Horizontal Blinds
C2501	CORRIDOR	6'-0"	6'-10"	NV-1	HM	PT-2	001	HM	PT-2			Horizontal Blinds
ATHLETICS: 19												
ACADEMICS												
2102	SPECIALIST	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2103	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO	2-HR		Horizontal Blinds
2104	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO	2-HR		2, Horizontal Blinds
2105	MATH CLASS #1	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2105.1	STORAGE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2106	MATH CLASS #2	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2107	MATH CLASS #3	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2108	MATH CLASS #4	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2109	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	001	ALUM	CLR ANO			
2110	STAFF RR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2111	BOYS RR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2112	MATH CLASS #5	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2113.1A	BALCONY	3'-0"	6'-10"	FG-1	ALUM	CLR ANO		-	-			
2113.1B	BALCONY	3'-0"	6'-10"	FG-1	ALUM	CLR ANO		-	-			
2113A	COLLAB. FLEX ROOM	3'-0"	6'-10 1/4"	FG-1	ALUM	CLR ANO		-	-			
2113B	COLLAB. FLEX ROOM	3'-0"	6'-10 1/4"	FG-1	ALUM	CLR ANO		-	-			
2114	MATH CLASS #6	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2115	CORRIDOR	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2116	MATH CLASS #7	3'-0"	6'-10"	NV-1	WS	PL-1	001	HM	CLR ANO			Horizontal Blinds
2118	CORRIDOR	4'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2119	MATH CLASS #8	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2121	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2121A	COMPUTER LAB	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2122	MATH CLASS #9	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2123	RESTROOM	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2124	MECH.	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2125	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO	2-HR		2
2126	RESTROOM	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2127	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2128	WORK RM / PLC	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2129	MATH CLASS #10	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2130	MATH CLASS #11	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2131	MATH CLASS #12	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2132	MATH CLASS #13	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2133	SOCIAL STUDIES #13	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2134	SOCIAL STUDIES #12	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2135	AP SUITE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2135A	AP OFFICE	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2136	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2137		3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO	2-HR		2
2138	SRO	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2139	SOCIAL STUDIES #11	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2140	SOCIAL STUDIES #1	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2142	SOCIAL STUDIES #10	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2143	SOCIAL STUDIES #2	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2144	SOCIAL STUDIES #3	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2145		6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
2146	SOCIAL STUDIES #4	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2147.1A	COLLAB. FLEX ROOM	3'-0"	6'-10"	FG-1	ALUM	CLR ANO		-	-			
2147.1B	COLLAB. FLEX ROOM	3'-0"	6'-10"	FG-1	ALUM	CLR ANO		-	-			
2147A	COLLAB. FLEX ROOM	3'-0"	6'-10 1/4"	FG-1	ALUM	CLR ANO		-	-			
2147B	COLLAB. FLEX ROOM	3'-0"	6'-10 1/4"	FG-1	ALUM	CLR ANO		-	-			
2148	SOCIAL STUDIES #5	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2149	BOYS RESTROOM	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2150	RESTROOM	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2151	GIRLS RESTROOM	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2152	SOCIAL STUDIES #9	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2153	SOCIAL STUDIES #6	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2154	SOCIAL STUDIES 8	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2155	SOCIAL STUDIES #7	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2155.1	STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
2156	SPECIALIST	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
2158		3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO	2-HR		
2159		3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO	2-HR		2
C2100.3	CORRIDOR	6'-0"	6'-10"	HGL	ALUM	PL-1	001	ALUM	CLR ANO			10
C2100.3A		6'-0"	6'-10"	HGL	ALUM	CLR ANO	001	ALUM	CLR ANO			10
ACADEMICS: 66												
LEVEL 2: 85												
LEVEL 3												
ATHLETICS												
3503	MECH.	4'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
ATHLETICS: 1												
ACADEMICS												
3102	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3102A	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3102B	PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3103	STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
3103B	PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3104	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3104A	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3105	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
3106	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO	2-HR		2
3107	ASTRONOMY CLASS	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3107A	PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3108	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3108A	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3108B	PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3109	GIRLS RR	3'-0"	6'-10"	F	WS	PL-1	001	HM	PT-2			
3110	STAFF RR	3'-0"	6'-10"	F	WS	PL-1	001	HM	PT-2			
3111	BOYS RR	3'-0"	6'-10"	F	WS	PL-1	001	HM	PT-2			
3112	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3112A	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3113	MECHANICAL	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
3115	SRO	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3116	SPANISH 1	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3116.1	SPANISH 1	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
3117	CUSTODIAL	3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
3119	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3119.1	SHARED PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds

2 DOOR SCHEDULE

DOOR	DATA	DOOR		PANEL			FRAME			GENERAL		
NUMBER	TO ROOM NAME	WIDTH	HEIGHT	TYPE	MATL	FINISH	TYPE	MATL	FINISH	FIRE RATING	HARDWARE SET	2 REMARKS
3119.1A	SHARED PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3119A	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3120	STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
3120.1	STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
3121	STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
3122	SPANISH 2	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			
3123	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO	2-HR		2, Horizontal Blinds
3124	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
3125	SPANISH 3	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3126	SPANISH 4	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3127	SPANISH 5	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3128	SPANISH 6	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3129	SPANISH 7	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3130	CORRIDOR	4'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
3131	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	WS	CLR ANO			2
3132	CORRIDOR	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3132A		3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3132B	PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3133	CORRIDOR	3'-0"	6'-10"	F	WS	PL-1	001	ALUM	CLR ANO			
3134	PLC / WORK ROOM	3'-0"	6'-10"	NV-1	WS	PL-1	001	WS	CLR ANO			Horizontal Blinds
3135		3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3135A		3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3135B	PREP	3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3137	FRENCH	3'-0"	6'-10"	NV-1	WS	PL-1	001	WS	CLR ANO			Horizontal Blinds
3138	STORAGE	3'-0"	6'-10"	F	WS	PL-1	001	WS	CLR ANO			
3139	MECH.	6'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
3140		3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3140A		3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			Horizontal Blinds
3140B		3'-0"	6'-10"	NV-1	WS	PL-1	001	ALUM	CLR ANO			Horizontal Blinds
3141		3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			Horizontal Blinds
3141A		3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			Horizontal Blinds
3141B	PREP	3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			Horizontal Blinds
3142	BOYS RESTROOM	3'-0"	6'-10"	F	WS	PT-2	001	ALUM	CLR ANO			
3143	RESTROOM	3'-0"	6'-10"	F	WS	PT-2	001	ALUM	CLR ANO			
3144	GIRLS RESTROOM	3'-0"	6'-10"	F	WS	PT-2	001	ALUM	CLR ANO			
3145	IPC	3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			Horizontal Blinds
3145A	PREP	3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			Horizontal Blinds
3146		3'-0"	6'-10"	F	WS	PT-2	001	ALUM	CLR ANO	2-HR		2
3147		3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			
3147.1	STORAGE	3'-0"	6'-10"	F	WS	PT-2	001	ALUM	CLR ANO			
3147A		3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			Horizontal Blinds
3147B	PREP	3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			Horizontal Blinds
3148		3'-0"	6'-10"	F	WS	PT-2	001	ALUM	CLR ANO			
3149		3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			Horizontal Blinds
3149A		3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			Horizontal Blinds
3150	STORAGE	3'-0"	6'-10"	F	WS	PT-2	001	ALUM	CLR ANO			
3150B	PREP	3'-0"	6'-10"	NV-1	WS	PT-2	001	ALUM	CLR ANO			Horizontal Blinds
3700A	COLLAB. FLEX ROOM	6'-0"	6'-10 1/4"	FG-1	ALUM	CLR ANO	NONE	-	-			
3700B	COLLAB. FLEX ROOM	6'-0"	6'-10 1/4"	FG-1	ALUM	CLR ANO	NONE	-	-			
C3700		3'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			EXTERIOR
ACADEMICS: 76												
LEVEL 3: 77												
MEZZ / BOD												
4000A		4'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
4000B		4'-0"	6'-10"	F	HM	PT-2	001	HM	PT-2			
: 2												
MEZZ / BOD: 2												
Grand total: 338												

1 1 1

Plot Stamp:
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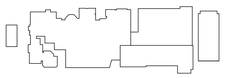
TX FIRM: BR 1608
HOUSTON, TX
713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

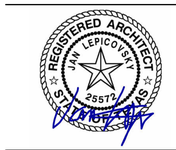
ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE ALL FOR EACH AND EVERY ONE



KEY PLAN

NORTH: PLAN = TRUE



CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker

DRAWN BY: Author

DOOR SCHEDULE LEVEL 2 AND 3
2

A-811

0"
1"

DOORS - PANEL & FRAME TYPES
A-812
FOR BLUEBEAM LABELING/OCR:

MATERIALS & FINISHES

ALUM - ALUMINUM
HM - HOLLOW METAL
SS - STAINLESS STEEL
PL# - PLASTIC LAMINATE
WS - WOOD, SOLID CORE
PT# - PAINTED TYPE
CLR ANO - CLEAR ANODIZED
DB ANO - DARK BRONZE ANODIZED

GLAZING MATERIALS LEGEND

GI1
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR INTERIOR PANE

GL1
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR LAMINATED INTERIOR PANE

GI2
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT INTERIOR PANE

GL2
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT LAMINATED INTERIOR PANE

GG1
1/4 INCH CLEAR, FLOAT GLASS

GS1
1" INSULATED UNIT, BACK PAINTED ON SURFACE 4 (3)
COLOR: AS SELECTED BY ARCHITECT

GG2
1" CLEAR INSULATED VISION GLASS

DOOR DETAIL LEGEND

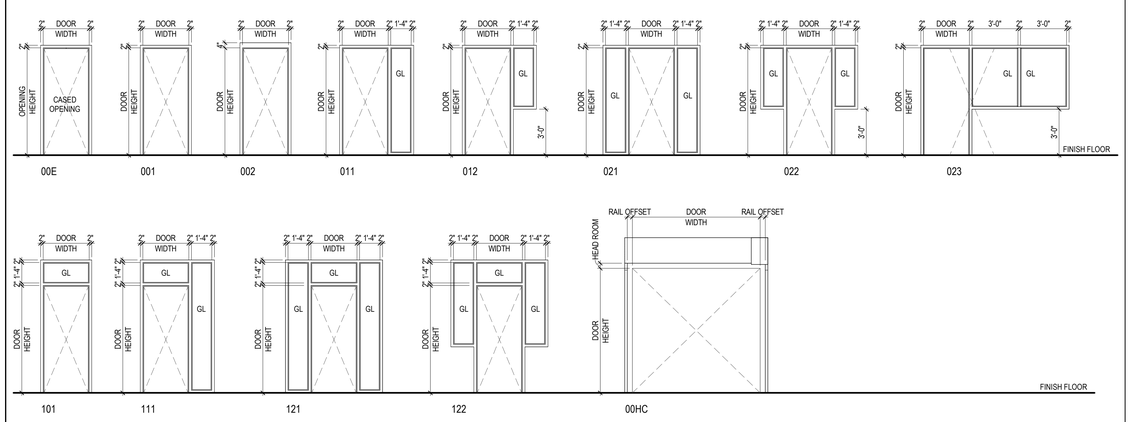
EXTERIOR ALUMINUM FRAMES

SILL @ MASONRY W/ CFMF BACKUP:	- / ---
SILL @ MASONRY W/ CMU BACKUP:	02 / A-851
JAMB @ MASONRY W/ CFMF BACKUP:	- / ---
JAMB @ MASONRY W/ CMU BACKUP:	08 / A-851
HEAD @ MASONRY W/ CFMF BACKUP:	- / ---
HEAD @ MASONRY W/ CMU BACKUP:	14 / A-851

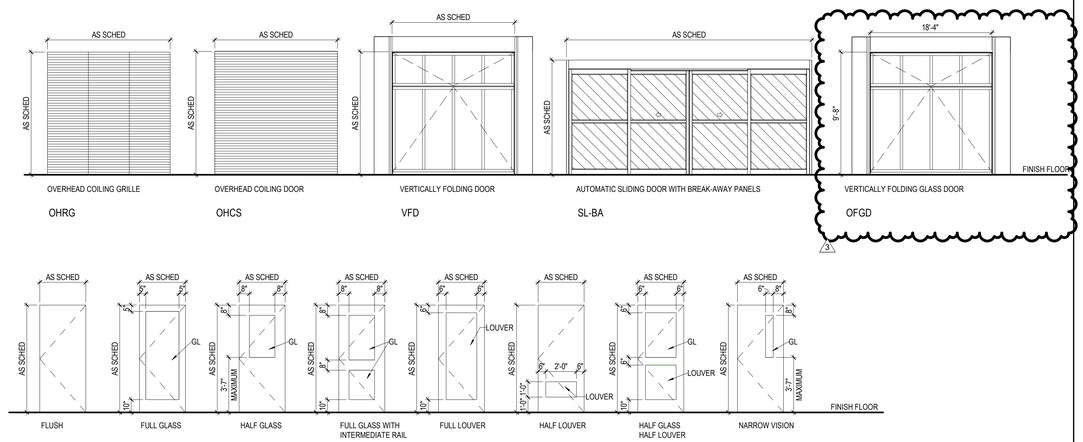
EXTERIOR HOLLOW METAL FRAMES

SILL @ MASONRY W/ CFMF BACKUP:	- / ---
SILL @ MASONRY W/ CMU BACKUP:	01 / A-851
JAMB @ MASONRY W/ CFMF BACKUP:	- / ---
JAMB @ MASONRY W/ CMU BACKUP:	07 / A-851
HEAD @ MASONRY W/ CFMF BACKUP:	- / ---
HEAD @ MASONRY W/ CMU BACKUP:	13 / A-851

1. EXTERIOR GLAZING SHALL BE GI1, U.N.O.
2. INTERIOR GLAZING SHALL BE GT1, U.N.O.



02 DOOR FRAME CONFIGURATIONS



01 DOOR PANEL TYPES

PBK
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TX FIRM: BR 1608
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713-366-0608

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Galena Park, TX 77547

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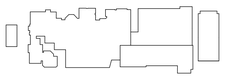


KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date

CHECKED BY: Checker
DRAWN BY: Author

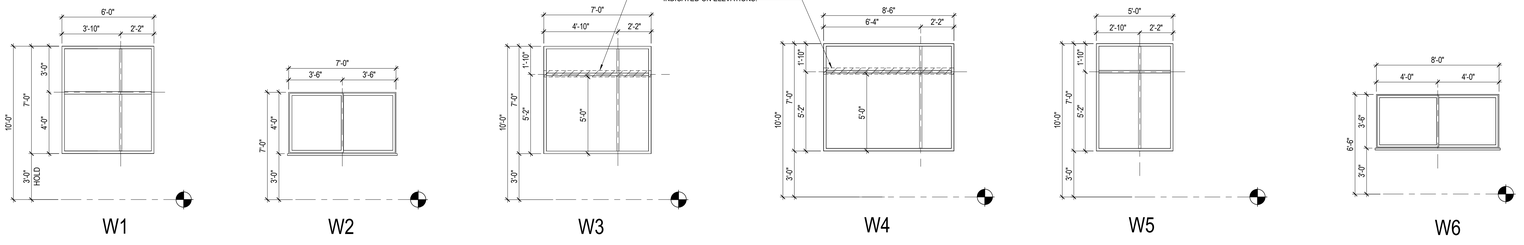
DOORS - PANEL & FRAME TYPES

A-812

Plot Stamp:
1/8/2026 2:28:21 PM

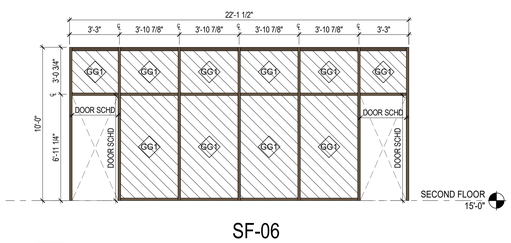
WINDOW AND STOREFRONT ELEVATIONS
A-821
FOR BLUEBEAM LABELING/OCR:

0"
1"



FOR GLAZING TYPE, REF. ELEVATIONS

02 WINDOW FRAME ELEVATIONS
1/4" = 1'-0"



01 STOREFRONT FRAME ELEVATIONS
1/4" = 1'-0"

GENERAL GLAZING NOTES

1. PROVIDE BACK PAINTED SPANDREL GLAZING AT ALL EXTERIOR AND INTERIOR GLAZING PANELS ABOVE INTERIOR CEILINGS. COLOR AND PATTERN AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.

GENERAL WINDOW, CURTAIN WALL, & STOREFRONT ELEVATION NOTES

3

1. REFER TO FRAME DETAIL LEGEND FOR FRAME DETAILS, TYPICAL FOR ALL STOREFRONT, WINDOW, AND CURTAIN WALL FRAMES
2. ALL W1, W3, AND W4 EXTERIOR CLASSROOM WINDOWS TO HAVE 2" FAUX WOOD BLINDS AND SOLID SURFACE WINDOW STOOLS
3. ALL OFFICES AND CLASSROOM DOORS TO HAVE 2" FAUX WOOD BLINDS INCLUDING DOOR VISION LITES
4. NO WINDOW TREATMENT ON INTERIOR WINDOWS THAT HAVE SLIDING MARKER BOARDS

GLAZING MATERIALS LEGEND

GI1
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR INTERIOR PANE

GL1
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR LAMINATED INTERIOR PANE

GI2
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT INTERIOR PANE

GL2
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT LAMINATED INTERIOR PANE

GG1
1/4 INCH CLEAR, FLOAT GLASS

GS1
1" INSULATED UNIT, BACK PAINTED ON SURFACE 4 (3)
COLOR: AS SELECTED BY ARCHITECT

GG2
1" CLEAR INSULATED VISION GLASS

STOREFRONT FRAME LEGEND

STOREFRONT FRAMES

SILL IN EXTERIOR KING BRICK CFMF WALL: -/ ---
JAMB IN EXTERIOR KING BRICK CFMF WALL: 02 / A-726
HEAD IN EXTERIOR KING BRICK CFMF WALL: 10 / A-726

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713-366-0808

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
3	ADD 05	2026/03/01

CHECKED BY: Checker
DRAWN BY: Author

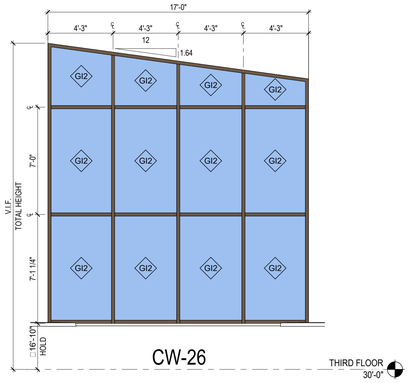
WINDOW AND STOREFRONT ELEVATIONS

A-821

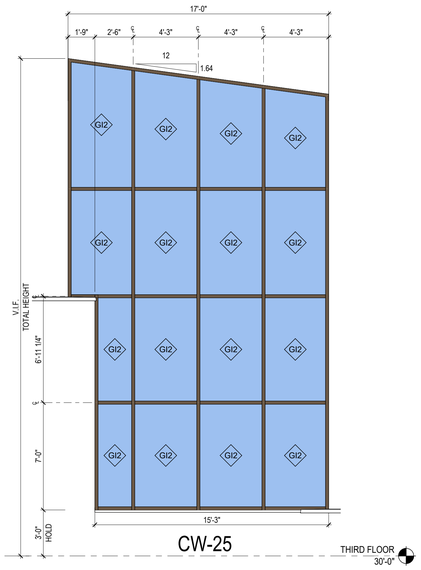
Plot Stamp:
1/8/2026 2:28:27 PM

CURTAIN WALL ELEVATIONS
A-842
FOR BLUEBEAM LABELING/DOOR:

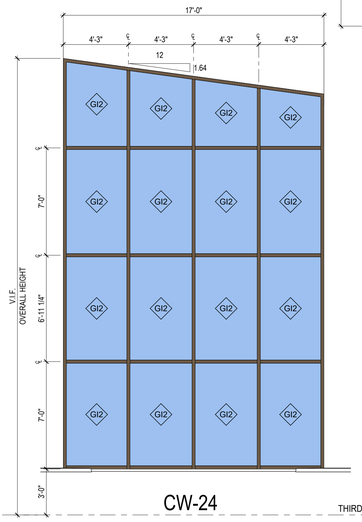
0"
1"



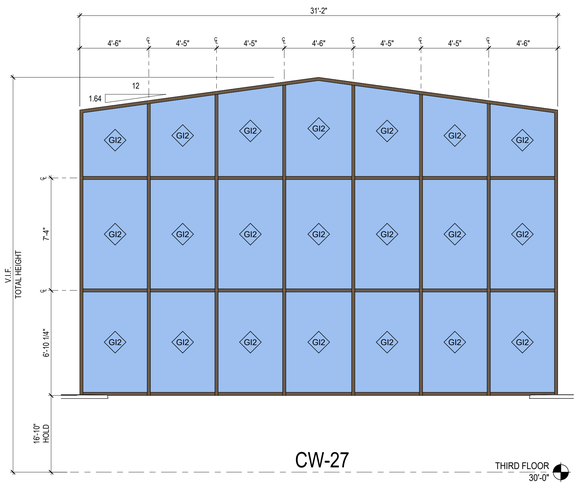
CW-26 THIRD FLOOR 30'-0"



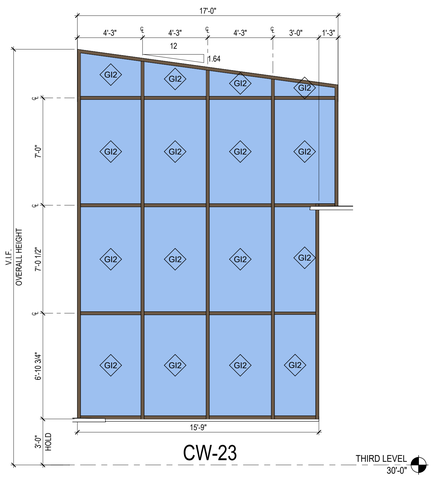
CW-25 THIRD FLOOR 30'-0"



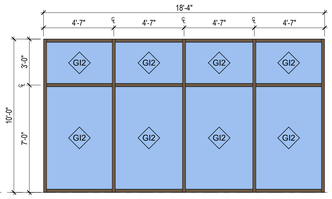
CW-24 THIRD FLOOR 30'-0"



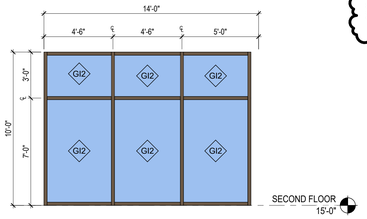
CW-27 THIRD FLOOR 30'-0"



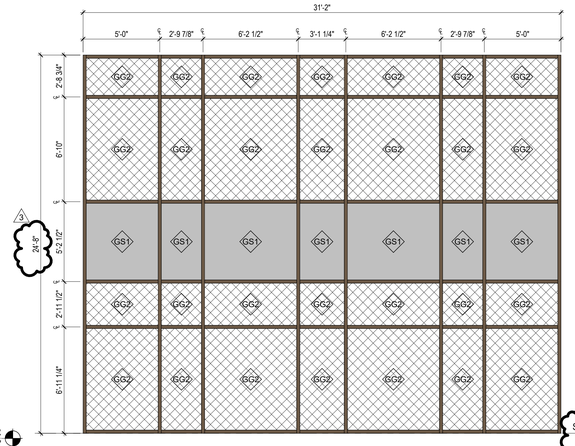
CW-23 THIRD LEVEL 30'-0"



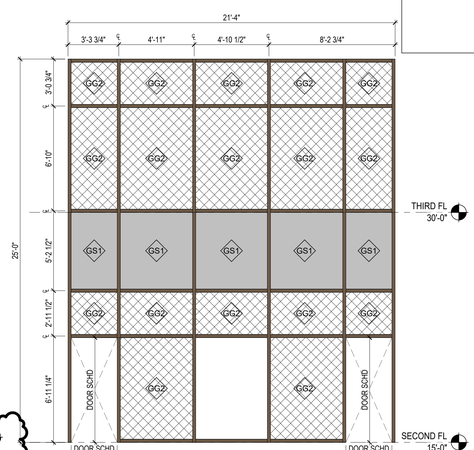
CW-22 SECOND LEVEL 15'-0"



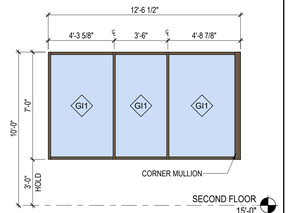
CW-21 SECOND FLOOR 15'-0"



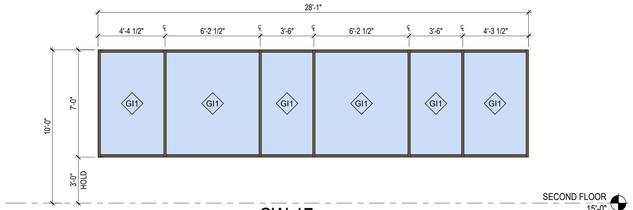
CW-20 SECOND FLOOR 15'-4"



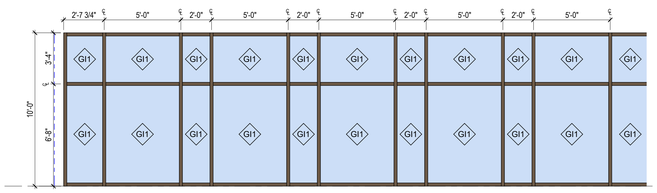
CW-19



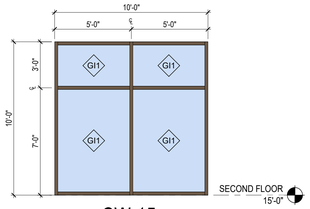
CW-18 SECOND FLOOR 15'-0"



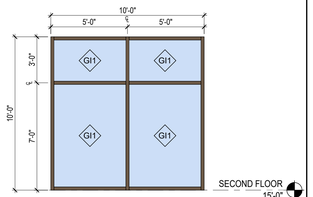
CW-17 SECOND FLOOR 15'-0"



CW-16 SECOND FLOOR 15'-0"



CW-15 SECOND FLOOR 15'-0"



CW-14 SECOND FLOOR 15'-0"

GENERAL GLAZING NOTES

1. PROVIDE BACK PAINTED SPANDREL GLAZING AT ALL EXTERIOR AND INTERIOR GLAZING PANELS ABOVE INTERIOR CEILINGS. COLOR AND PATTERN AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.

GENERAL WINDOW, CURTAIN WALL, & STOREFRONT ELEVATION NOTES

1. REFER TO FRAME DETAIL LEGEND FOR FRAME DETAILS, TYPICAL FOR ALL STOREFRONT, WINDOW, AND CURTAIN WALL FRAMES
2. ALL W1, W3, AND W4 EXTERIOR CLASSROOM WINDOWS TO HAVE 2" FAUX WOOD BLINDS AND SOLID SURFACE WINDOW STOOLS
3. ALL OFFICES AND CLASSROOM DOORS TO HAVE 2" FAUX WOOD BLINDS INCLUDING DOOR VISION LITES
4. NO WINDOW TREATMENT ON INTERIOR WINDOWS THAT HAVE SLIDING MARKER BOARDS

GLAZING MATERIALS LEGEND

GI1
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR INTERIOR PANE

GL1
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR LAMINATED INTERIOR PANE

GI2
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT INTERIOR PANE

GL2
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT LAMINATED INTERIOR PANE

GG1
1/4 INCH CLEAR, FLOAT GLASS

GS1
1" INSULATED UNIT, BACK PAINTED ON SURFACE 4
COLOR: AS SELECTED BY ARCHITECT

GG2
1" CLEAR INSULATED VISION GLASS

CURTAIN WALL FRAME LEGEND

CURTAIN WALL FRAMES

SILL IN EXTERIOR MODULAR BRICK CFMF WALL: 06 / A-723
JAMB IN EXTERIOR MODULAR BRICK CFMF WALL: 02 / A-722
HEAD IN EXTERIOR MODULAR BRICK CFMF WALL: 05 / A-722

01 CURTAIN WALL FRAME ELEVATIONS
1/4" = 1'-0"

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713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN TEPICO'SAN
25572

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

CURTAIN WALL ELEVATIONS

A-842

Plot Stamp:
1/8/2026 1:45:47 PM

FINISH SCHEDULE
A-900
FOR BLUEBEAM LABELING/DOOR:

2405398 GALENA PARK PHASE 3B - INTERIOR SCHEDULE OF FINISHES

ITEM	MANUFACTURER	DESCRIPTION	COLOR	SIZE	LOCATION	NOTES
CONCRETE FINISHING						
03 35 00.SC1		SEALED CONCRETE			REF TO FINISH FLOOR PLAN	SEALED CONCRETE
STONE						
04 20 00.CV1	BEST BLOCK	BURNISH BLOCK	COLOR: TBD		GYM LOBBY	
STAIR SYSTEM						
05 73 00.DR1	VIVA RAILING	POST SUPPORTED METAL RAILING SYSTEM	Viva Railing: Guardrail Posts with fascia (side-mounted) rail. Material: 2-inch OD stainless steel tube, Type 304. Height: 42 inches. Spacing: 5'-0" on center maximum. Handrails: 1-1/2-inch OD stainless steel tube, Type 304. Finish: Stainless Steel Handrails and Posts: Circular #4 satin.			
05 52 00.IPM	VIVA RAILING	PERFORATED INFILL PANEL	Perforated Metal: Type: Stainless steel, Satin #6. Thickness: 1/8 inch. Style: Viva Railings' PMSL-0325			
TRIMS / TRANSITIONS / NOSINGS						
05 75 00.DT1	SCHLUTER	JOLLY	AT, SATIN NICKEL ANODIZED ALUMINUM		TILE EDGES	
05 75 00.DT2	SCHLUTER	SCHIENE	GS, BLACK, RAL 9011		TILE TO TILE TRANSITION FOR TILE 09 30 00.T4	
05 75 00. DT3	SCHLUTER	QUADEC	AT, SATIN NICKEL ANODIZED ALUMINUM		EDGES AT TILE	
05 75 00.MT1	SCHLUTER	RENO-RAMP	AE, SATIN ANODIZED ALUMINUM		RAMP TRANSITION	
05 75 00.MT2	SCHLUTER	RENO-T	AT, SATIN NICKEL ANODIZED ALUMINUM		SAME HEIGHT TRANSITION	
05 75 00.MT3	SCHLUTER	RENO-TK	AT, SATIN NICKEL ANODIZED ALUMINUM		TILE TO CARPET	
05 75 00.MT4	SCHLUTER	DILEX-AHK	AT, SATIN NICKEL ANODIZED ALUMINUM		TILED FLOOR TO WALL COVE	WALL TILE TO FLOOR TILE
05 75 00.MT5	SCHLUTER	VINPRO-S	AT, SATIN NICKEL ANODIZED ALUMINUM		RESILIENT FLOORING EDGE	
PLASTIC LAMINATE						
06 20 00.PL1	FORMICA		5883-58, PECAN WOOD LINE	MATTE FINISH	DOORS., CASEWORK	
06 20 00.PL2	NEVAMAR		S-4022 SUNRAY	TEXTUREED	PORTAL AT GYM LOBBY AND MAKERSPACE	
06 20 00.PL3	FORMICA	DECO METAL	M4254-99 BRUSHED BLACK ALUMINUM	METAL FINISH	WALLS AND DOORS AT GYM LOBBY	
12 36 00.PLC	FORMICA		5882-58 CITADEL WARP	MATTE TEXTURE	COUNTERTOPS WHERE APPLICABLE	
12 36 00.PLC2	WILSONART	CHEMSURF FINISH			COUNTERTOPS AT SCIENCE LABS	
TILE						
09 30 00.T1	BPI - ATLAS CONCORDE	REFLEX	TITANIUM	12" X 24"	WAINSCOT FIELD TILE	GROUT:
09 30 00.T2	BPI - ATLAS CONCORDE	REFLEX	MERCURY	12" X 24"	WAINSCOT ACCENT TILE	GROUT:
09 30 00.T3	BPI - ATLAS CONCORDE	REFLEX	NIGHT	12" X 24"	WAINSCOT ACCENT BAND AT TOP	GROUT:
09 30 00.T4	CROSSVILLE - LAMINAM	FILO	COLOR: PECE, TEXTURED	1000 X 3000 MM RECTIFIED	WALL TILE AT GYM LOBBY	GROUT:
09 30 00.T5	EMSER	RAKU	COLOR: WHITE	3" X 12"	RESTROOM WALLS	GROUT:
09 30 00.T6	EMSER	RAKU	COLOR: CHARCOAL	3" X 12"	RESTROOM WALLS	GROUT:
09 30 00.T7	EMSER	RAKU	COLOR: MUSTARD	3" X 12"	RESTROOM WALLS	GROUT:
09 30 00.T8	TILE BAR	HEXART	COLOR: YELLOW POP	8" HEXAGON	DRINKING FOUNTAINS	GROUT:
09 30 00.T9	BPI - ATLAS CONCORDE	REFLEX	NIGHT	24" X 48"	ACCENT AT MAINSTREET	GROUT:
ACOUSTICAL CEILINGS						
09 51 00.ACP1	ARMSTRONG - ACOUSTIC CEILING PANEL/TILE	STANDARD	WHITE	24'X24", 15/16"		RE: RCPS
09 51 00.ACP2	ACOUSTICAL CEILING PANEL	VINYL FACED	WHITE	24'X24", 15/16"		RE: RCPS
09 51 00.ACP3	ACOUSTICAL CEILING PANEL	HIGHER NRC	WHITE	24'X24", 15/16"		RE: RCPS
09 51 00.ACT4	ACOUSTICAL CEILING PANEL	REFLECTIVE		24'X24", 15/16"		RE: RCPS
09 51 00.ACT5	ACOUSTICAL CEILING PANEL	HIGHER NRC	BLACK	24'X24", 15/16"		RE: RCPS
09 51 00.ACS1	ACOUSTIC CEILING SYSTEM		WHITE	15/16"	FIELD ACS	RE: RCPS
09 51 00.ACS2	ACOUSTIC CEILING SYSTEM		BLACK	15/16"		RE: RCPS
09 51 00.ACS3	ACOUSTIC CEILING SYSTEM					
09 51 00.XCT6	CEILING TRIM	AXIOM CLASSIC	TBD	6"	CEILING CLOUDS	RE: RCPS
WOOD FLOORING						
09 64 66.WGM	TARKETT	CLUTCH COURT	2ND & BETTER (MAIN COURT) & 3RD (PERIMETER)		COMP & AUX GYM FLOORING	
LUXURY VINYL TILE						
09 65 00.RFT1	TARKETT	COLOR PLAY; COLOR BEAM	C113 MOONLIGHT	18"X18"	CLASSROOM WING, CLASSROOMS	LIGHT FIELD
09 65 00.RFT2	TARKETT	COLOR PLAY; COLOR BEAM	C121 FLANNEL	18"X18"	CLASSROOM WING, CLASSROOMS	ACCENT GRAY
09 65 00.RFT3	TARKETT	COLOR PLAY; COLOR BEAM	C120 ECLIPSE	18"X18"	CLASSROOM WING, CLASSROOMS	ACCENT BLACK
09 65 00.RFT4	TARKETT	COLOR PLAY; COLOR BEAM	C106 STRAW	18"X18"	CLASSROOM WING, CLASSROOMS	ACCENT GOLD
09 65 00.RFT5	MOHAWK	LIVING LOCAL COLLECTION, PREMIUM WOOD C0194	330 ALMOND	7.75" X 52" NOMINAL	CORRIDORS AT LEVEL 2	MATCH LVT AT PHASE 2
RUBBER BASE						
09 65 13.RB1	JOHNSONITE	TRADITIONAL WALL BASE	CHARCOAL	4"	FIELD	
09 65 13.RB2	JOHNSONITE	TRADITIONAL WALL BASE	BLACK	4"	WEIGHT ROOM	
09 65 13.RB3	JOHNSONITE	VENTED COVE BASE	BLACK		COMPETITION GYM AND PRACTICE GYMS	
RUBBER STAIR TREAD & RUBBER TILE						
09 65 13.RSR	TARKETT	ANGLE FIT RUBBER STAIR TREAD W/ INTEGRATED RISER	COLOR: VG1 FORK FALLS	TEXTURE: RAISED ROUND	EGRESS STAIRS	
09 65 13.RSR2	TARKETT	ANGLE FIT RUBBER STAIR TREAD W/ INTEGRATED RISER	COLOR:	TEXTURE: RAISED ROUND	STAIRS AT LIBRARY	
09 65 19 RT1	TARKETT	COLOR SPLASH	COLOR: VG1 FORK FALLS		LANDINGS EGRESS STAIRS	
RESILIENT ATHLETIC FLOORING						
09 65 66.PRA1	TARKETT SPORTS	REPLAY	RA1 MELLOWED	18"MM THICKNESS, ROLLS	WEIGHT ROOM, FIELD	
09 65 66.PRA2	TARKETT SPORTS	ICE TAC	ICE TAC	18"MM THICKNESS, ROLLS	WEIGHT ROOM, ACCENT	
09 65 66.PRA3	TARKETT SPORTS	DROPTURF	COLOR: GREEN	15' wide, custom length: Rolls	GOLF SIMULATOR	
TERRAZZO FLOORING						
09 66 23.16. TZE1	TERRAZZO & MARBLE	TERROXY	TM 19GG-856		FIELD -WHITE	MAIN STREET
09 66 23.16. TZE2	TERRAZZO & MARBLE	TERROXY	TM 19GG-538		ACCENT - BLACK	MAINSTREET, GYM LOBBY
09 66 23.16. TZE3	TERRAZZO & MARBLE	TERROXY	TM 21GG-480		ACCENT - GRAY	MAINSTREET, GYM LOBBY
09 66 23.16. TZE4	TERRAZZO & MARBLE	TERROXY	TM 19GG-995		ACCENT - GOLD	ACCENT AT MAIN STREET AND GYM LOBBY
EPOXY FLOORING						
09 67 00.FF1	PATCRAFT	RESIN FLAKE	STYLE: TRADITIONAL FLAKE, COLOR: F0130 GLINT	INTERGRAL EPOXY BASE 4"	RESTROOMS, CONCESSION, LAUNDRY, LOCKER ROOMS	
CARPET						
09 68 00.CP1	TARKETT	CUSTOM POWERBOND CARPET	115736598-10, POWERBOND	POWERBOND RS	ADMIN CARPET, CONFERENCE ROOMS, TEMP BAND ROOM	
09 68 00.CP2	TARKETT	ANGLED IN ENRICHMENT	11861 FRAME THEORY, 56709 INCLUSION	POWERBOND RS	LIBRARY AND AUDITORIUM	
09 68 00.CP3	TARKETT	ASSERTIVE ACTION 04837	STEELWORK 26202	POWERBOND RS	WALK OFF CARPET	
09 68 00.CP4	TARKETT	PLEXUS COLOUR	18560 LEMON PEEL	POWERBOND RS	ACCENT GOLD	
INTERIOR WALL PANELS						
09 78 00.DPS	PSI	HIGH PRESSURE LAMINATE	EDGING: VINYL, CUSTOM COLOR; DIVIDER MOLDING: CLEAR ANODIZED #631; EDGE TRIM: CLEAR ANODIZED, #60			
ACOUSTICAL MATERIALS						
09 84 00.ARC1	NOT IN USE	NOT IN USE				
09 84 00.ARC2	MPS	COLIGO RECTANGLE	COLOR: TBD	SIZE: 4' X 8'	MAIN STREET	REF: TO INTERIOR ELEVATIONS
09 84 00.ARC3	MPS	COLIGO RECTANGLE	COLOR: 03 MARBLE	SIZE: 4' X 8'	MAIN STREET	REF: TO INTERIOR ELEVATIONS
09 84 00.ARC4	MPS	COLIGO RECTANGLE	COLOR: 04 GRAPHITE	SIZE: 4' X 8'	MAIN STREET	REF: TO INTERIOR ELEVATIONS
09 84 00.ARC5	ACOUFELT	WALL TILE, HEXAGON SHAPE	COLOR: TBD		LIBRARY AND COMPETITION GYM	GOLD COLOR
09 84 00.ARC6	ACOUFELT	WALL TILE, HEXAGON SHAPE	COLOR: PI24 PIANO BLACK		LIBRARY	BLACK COLOR
09 84 00.ARC7	ACOUFELT	WALL TILE, HEXAGON SHAPE	COLOR: GR02 GREY		LIBRARY	GREY COLOR
09 84 00.ARC8	MPS	JOIST LED CEILING BAFFLE	COLOR: 09 ONYX	92.50" L X 12"H X 2.77"W	PET CEILING BAFFLES AT MAIN STREET CORRIDOR AND GYM LOBBY	RE: RCPS, CABLE GRIPPER INSTALLATION
09 84 00.ARC9	MPS	JOIST FELT CEILING BAFFLE	COLOR: 09 ONYX	92.50" L X 12"H X 2.77"W	PET CEILING BAFFLES AT MAIN STREET CORRIDOR AND GYM LOBBY	RE: RCPS, CABLE GRIPPER INSTALLATION
09 84 00.ARC10	MPS	JOIST FELT CEILING BAFFLE	COLOR: 11 HEMP	92.50" L X 12"H X 2.77"W	PET CEILING BAFFLES AT MAIN STREET CORRIDOR AND GYM LOBBY	RE: RCPS, CABLE GRIPPER INSTALLATION
09 84 00.ARC11	ACOUSTICAL RESOURCES	GUILFORD OF MAINE	ANCHORAGE, COLOR: 2079 GRAPHITE		TEMP CHOIR AND BAND ROOM	REF: TO INTERIOR ELEVATIONS
09 84 00.ARC12	ACOUSTICAL RESOURCES	GUILFORD OF MAINE	ANCHORAGE, COLOR: 2082 SUNSHINE		TEMP CHOIR AND BAND ROOM	REF: TO INTERIOR ELEVATIONS
09 84 00.ARC13	ACOUSTICAL RESOURCES	GUILFORD OF MAINE	ANCHORAGE, COLOR: 2053 ASTEROID		TEMP CHOIR AND BAND ROOM	REF: TO INTERIOR ELEVATIONS
09 84 00.ARC14	ACOUSTICAL	TEMPORARY BAFFLE SYSTEM			DIRECT ATTACHED	REFER TO DWGS FOR SIZES AND LOCATIONS
09 84 00.ARC15	CSI CREATIVE	SINGLE BAFFLES 003	BFL-SGL-003, SOUNDCORE; COLOR: TBD		BAFFLES AT COLLAB/FLEX AREAS	
PAINT						
09 90 00.P1	SHERWIN WILLIAMS		SW 7014 EIDER WHITE		FIELD	
09 90 00.P2	SHERWIN WILLIAMS		SW 7066 GRAY MATTERS		ACCENT, EXPOSED CEILING AT GYM	
09 90 00.P3	SHERWIN WILLIAMS		SW 7068 GRIZZLE GRAY		ACCENT, DOOR FRAMES, GYP CEILING AT WEIGHT ROOM	
09 90 00.P4	SHERWIN WILLIAMS		BRANDING GOLD		SPIRIT COLOR	CONFIRM WITH DISTRICT
09 90 00.P5	SHERWIN WILLIAMS		SW 6991 BLACK MAGIC		SPIRIT COLOR, EXPOSED STRUCTURE	
09 90 00.P6	SHERWIN WILLIAMS		SW7014 EIDER WHITE (EPOXY FINISH)		CMU WALLS WHERE INDICATED	
09 90 00.P7	SHERWIN WILLIAMS		SW 7066 GRAY MATTERS (EPOXY FINISH)			
09 90 00.P8	SHERWIN WILLIAMS		BRANDING GOLD (EPOXY FINISH)		SPIRIT COLOR	CONFIRM WITH DISTRICT
09 90 00.P9	SHERWIN WILLIAMS		SW 6991 BLACK MAGIC (EPOXY FINISH)			
09 90 00.P10	SHERWIN WILLIAMS		SW 7648 BIG CHILL (EPOXY FINISH)		GYM FIELD PAINT COLOR	
SIGNAGE						
10 14 00.RID1	FORMICA		961-58, FOG, MATTE FINISH		ROOM SIGNAGE	FIELD AND EDGE
10 14 00.RID2	FORMICA		909-58, BLACK, MATTE FINISH		ROOM SIGNAGE	TEXT, SYMBOLS AND DEMARCATION LINE
TOILET COMPARTMENTS/PARTITIONS						
10 21 13.19.PTC	ASI-ACCURATE PARTITION	SOLID PLASTIC	#9205 BLACK		RESTROOMS	
CORNER GUARDS/WALL PROTECTION						
10 26 00.CG1	KOROSEAL	KOROGARD	COLOR TO BE SELECTED DURING SUBMITTALS		WHERE APPLICABLE	
06 83 16.FPW		FRP	COLOR: TBD, FINISH: PEBBLED	4' x 8' PANEL		
06 83 16.TRM		FRP TRIM	FINISH: VINYL			
WINDOW TREATMENT						
12 21 13.HB1	HUNTER DOUGLAS	2" FAUX WOOD BLINDS			REF TO DRAWINGS	HORIZONTAL BLINDS
12 24 00.SB1	DRAPER	SUNBLOC SERIES			REF TO DRAWINGS	WINDOW SHADE BLACKOUT FABRIC
12 24 00.SF1	DRAPER	SHEERWEAVE SERIES			REF TO DRAWINGS	WINDOW SHADE FABRIC
12 22 00						
SOLID SURFACE/RESIN						
12 36 00.SCT1	WILSONART	SOLID SURFACE COUNTERTOPS	AVALANCHE MELANGE, 9175ML		COUNTERTOPS WHERE APPLICABLE	
12 36 00 SCT2	WILSONART	SOLID SURFACE WINDOW SILLS	FROSTY WHITE, 1573SL		WINDOW SILLS	
12 36 00. ERC	SHELDON LABORATORY SYSTEMS	EPOXY RESIN COUNTERTOPS	COLOR: BLACK, TR-5 FINISH, 1" THICKNESS; SURFACE FINISH: SMOOTH, NON GLARE		CHEMISTRY LABS AND IPC	
MISC.						
10 51 13.AL	METAL LOCKERS				LOCKER ROOM	METAL LOCKERS
	BLEACHERS	TELESCOPIC BENCH	BENCH COLOR: BLACK		GYMS	
	WALL PADS		COLOR: BLACK		GYMS	
	DUCT SOCK				GYMS	
10 22 39.FPH	OPERABLE PARTITION	MODERNFOLD	ACOUSTI SEAL, MODEL 933	MANUAL	TEAM ROOMS	
06 83 16.FPW		FRP WALL SYSTEM			WHERE APPLICABLE	
10 12 00.DCR	CLARIDGE	370 SERIES RECESSED DISPLAY CASE				

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN = TRUE

REGISTERED ARCHITECT
STATE OF TEXAS
JOHN LEPICOVSKY
25572

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

FINISH SCHEDULE

A-900

Plot Stamp:
1/8/2026 1:45:48 PM

INTERIOR ELEVATIONS
A-933
FOR BLUEBEAM LABELING/DOOR:

0"
1"

GLAZING MATERIALS LEGEND 2

GI1
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR INTERIOR PANE

GL1
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR LAMINATED INTERIOR PANE

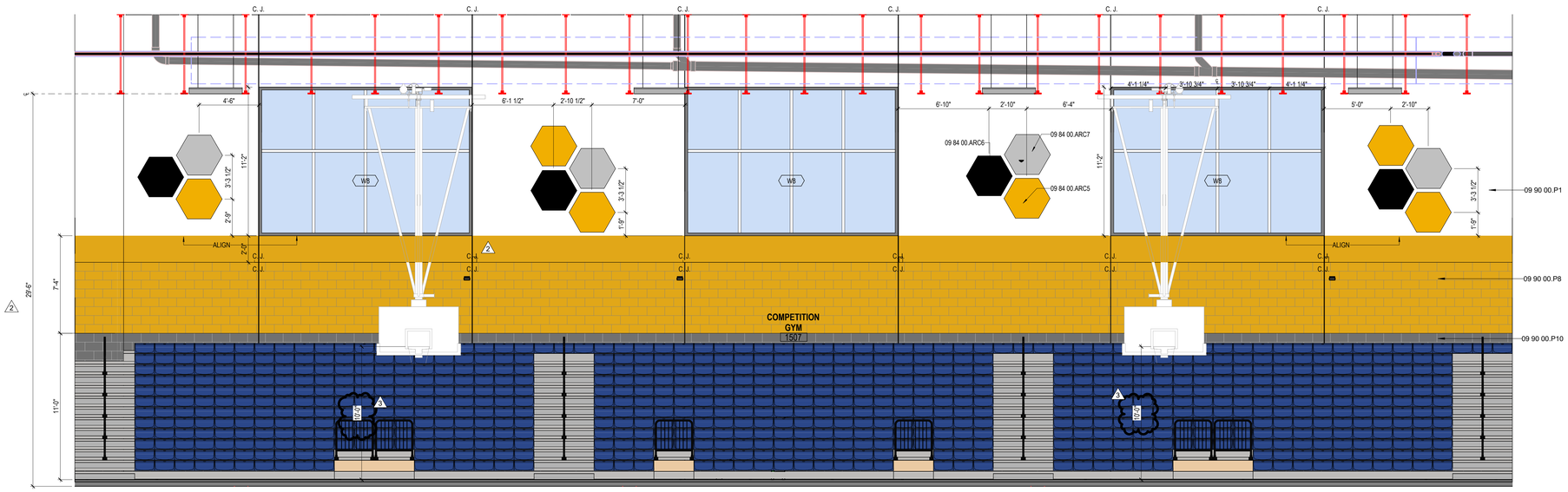
GI2
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT INTERIOR PANE

GL2
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT LAMINATED INTERIOR PANE

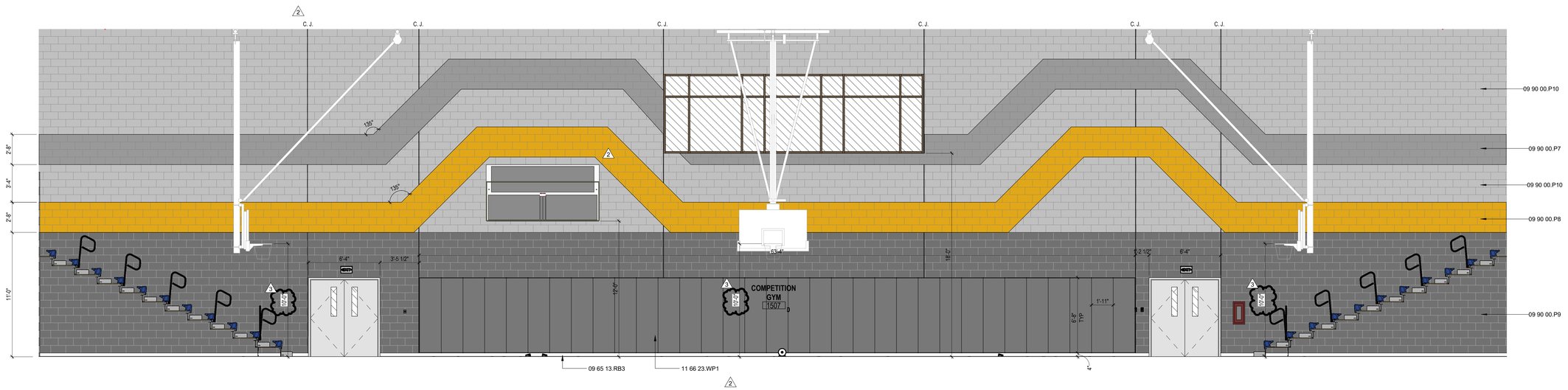
GG1
1/4 INCH CLEAR, FLOAT GLASS

GS1
1" INSULATED UNIT, BACK PAINTED ON SURFACE 4 3
COLOR: AS SELECTED BY ARCHITECT

GG2
1" CLEAR INSULATED VISION GLASS



02 1507 - COMPETITION GYM - W
1/4" = 1'-0"



01 1507 - COMPETITION GYM - S
1/4" = 1'-0"

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713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

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KEY PLAN
NORTH: PLAN TRUE

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REGISTERED ARCHITECT
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

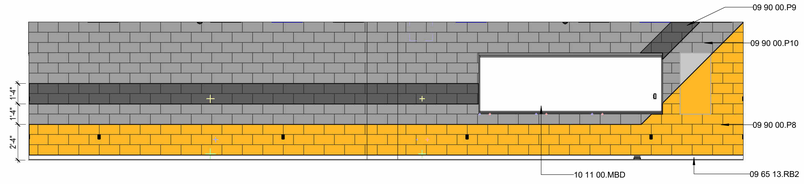
INTERIOR ELEVATIONS

A-933

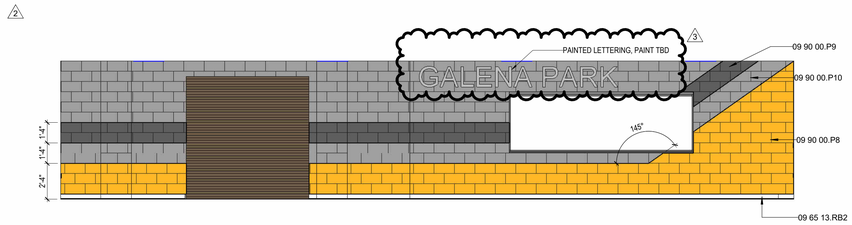
Plot Stamp:
1/8/2026 1:46:32 PM

INTERIOR ELEVATIONS
A-934
FOR BLUEBEAM LABELING/DOOR:

0"
1"



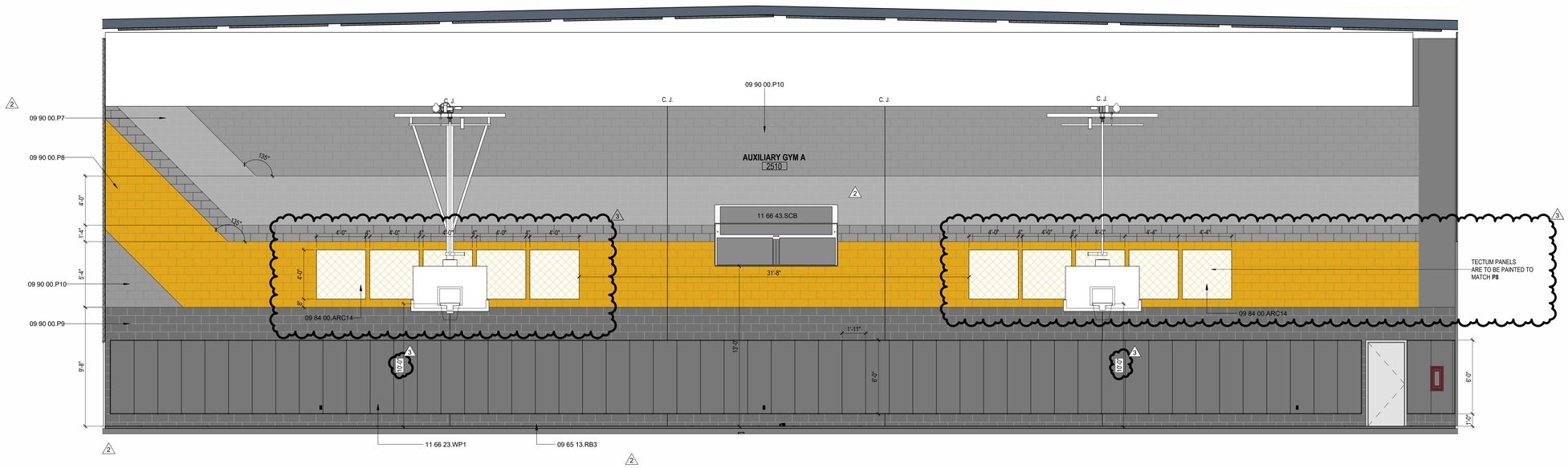
05 1515 - WEIGHT ROOM EAST ELEVATION
1/4" = 1'-0"



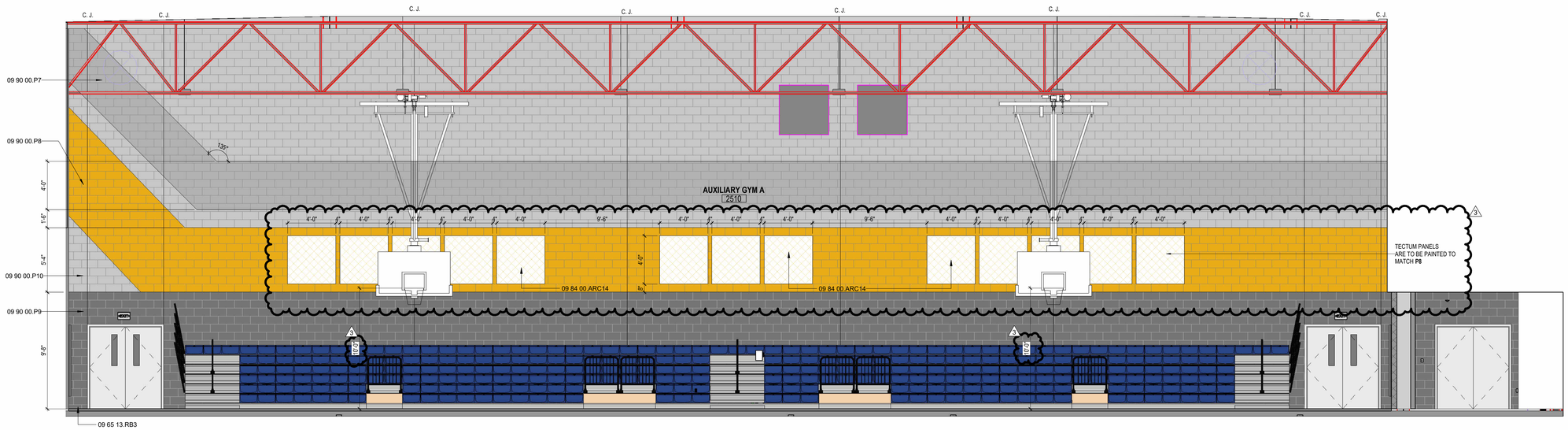
04 1515 - WEIGHT ROOM WEST ELEVATION
1/4" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 65 13.RB2	RESILIENT BASE, TYPE 2 - BLACK STANDARD RUBBER BASE
09 65 13.RB3	RESILIENT BASE, TYPE 3 - VENTED COVE BASE
09 84 00.ARC14	ACOUSTIC ROOM COMPONENT TYPE 14 - TECTUM PANELS
09 90 00.P7	PAINT TYPE 7 - ACCENT AT CMU]
09 90 00.P8	PAINT TYPE 8 - [GOLD ACCENT AT CMU]
09 90 00.P9	PAINT TYPE 9- [BLACK AT CMU]
09 90 00.P10	PAINT TYPE 10 - [FIELD AT GYM ON CMU]
10 11 00.MBD	12' MARKERBOARD
11 66 23.WP1	WALL PADDING, TYPE 1 [COLOR]
11 66 43.SCB	INTERIOR SCOREBOARD



02 GYM B - WEST INTERIOR ELEVATION
1/4" = 1'-0"



01 GYM B - EAST INTERIOR ELEVATION
1/4" = 1'-0"

Plot Stamp:
1/8/2026 1:46:44 PM

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TX FIRM: BR 1608
HOUSTON, TX
713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN = TRUE

REGISTERED ARCHITECT
IAN LEPICOVSKY
25577
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

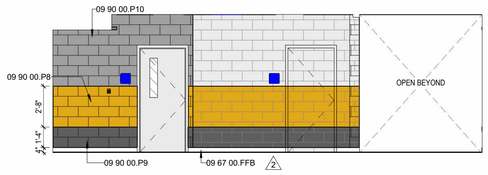
CHECKED BY: Checker
DRAWN BY: Author

INTERIOR ELEVATIONS

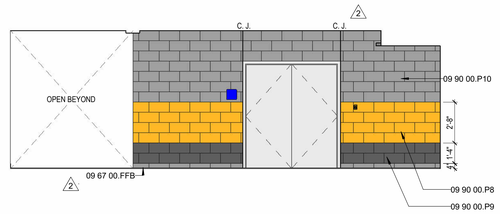
A-934

INTERIOR ELEVATIONS
A-935
FOR BLUEBEAM LABELING/DOOR:

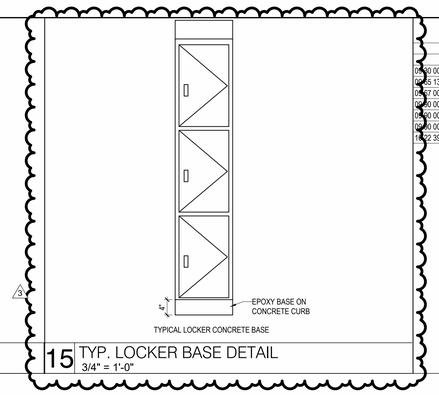
0"
1"



13 C1508 - INTERIOR ELEVATION 1
1/4" = 1'-0"



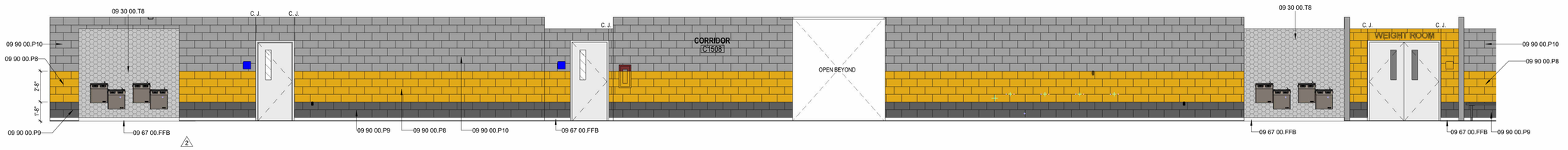
14 C1508 - INTERIOR ELEVATION 2
1/4" = 1'-0"



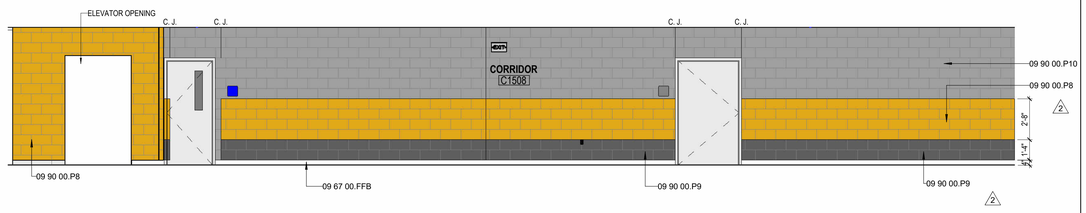
15 TYP. LOCKER BASE DETAIL
3/4" = 1'-0"

KEYNOTE LEGEND

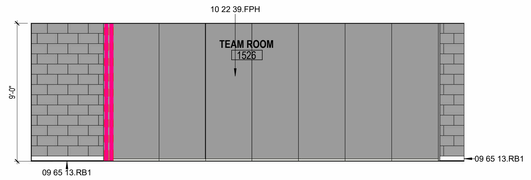
NUMBER	DESCRIPTION
09 30 00.T8	TILE TYPE 8 - [DRINKING FOUNTAIN]
09 65 13.RB1	RESILIENT BASE, TYPE 1 - STANDARD RUBBER BASE
09 67 00.FFB	FLUID-APPLIED FLOORING BASE, RETURN __" UP WALL
09 90 00.P8	PAINT TYPE 8 - [GOLD ACCENT AT CMU]
09 90 00.P9	PAINT TYPE 9- [BLACK AT CMU]
09 90 00.P10	PAINT TYPE 10 - [FIELD AT GYM ON CMU]
10 22 39.FPH	HORIZONTAL-OPENING FOLDING PANEL PARTITION



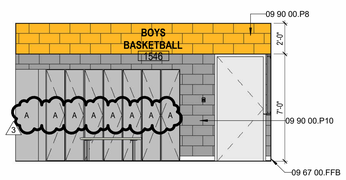
11 C1508 CORRIDOR - INTERIOR ELEVATION
1/4" = 1'-0"



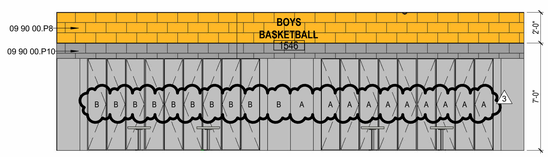
12 C1508 CORRIDOR - ELEVATOR WALL INTERIOR ELEVATION
1/4" = 1'-0"



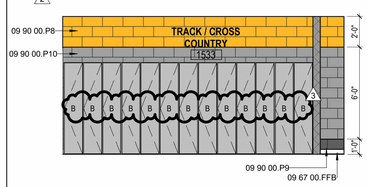
10 TYP. TEAM ROOM
1/4" = 1'-0"



09 TYP. LOCKER ROOM 3 -E
1/4" = 1'-0"

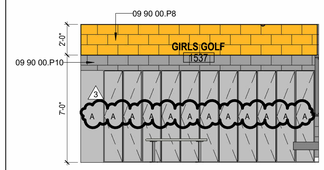


08 TYP. LOCKER ROOM 3 - N
1/4" = 1'-0"

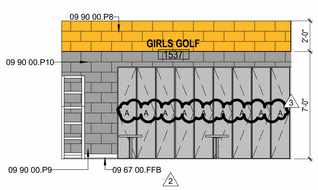


07 TYP. LOCKER ROOM 2 - N
1/4" = 1'-0"

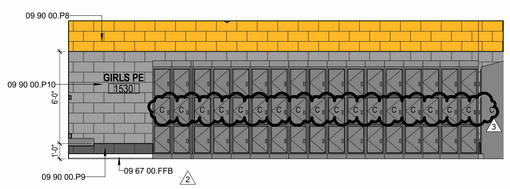
06 TYP. LOCKER ROOM 2 - S
1/4" = 1'-0"



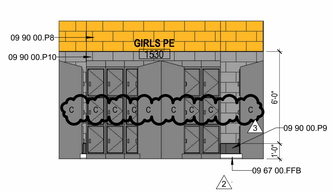
05 TYP. LOCKER ROOM 1 - W
1/4" = 1'-0"



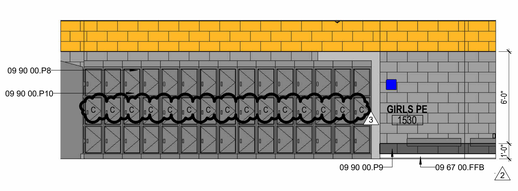
04 TYP. LOCKER ROOM 1 - S
1/4" = 1'-0"



03 TYP. PE LOCKER- S
1/4" = 1'-0"



02 TYP. PE LOCKER - W
1/4" = 1'-0"



01 TYP. PE LOCKER - N
1/4" = 1'-0"

Plot Stamp:
1/8/2026 1:47:07 PM

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713-865-0008

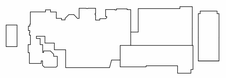
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

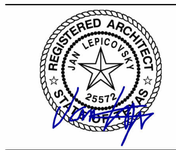
1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN





CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

CHECKED BY: Checker
DRAWN BY: Author

INTERIOR ELEVATIONS

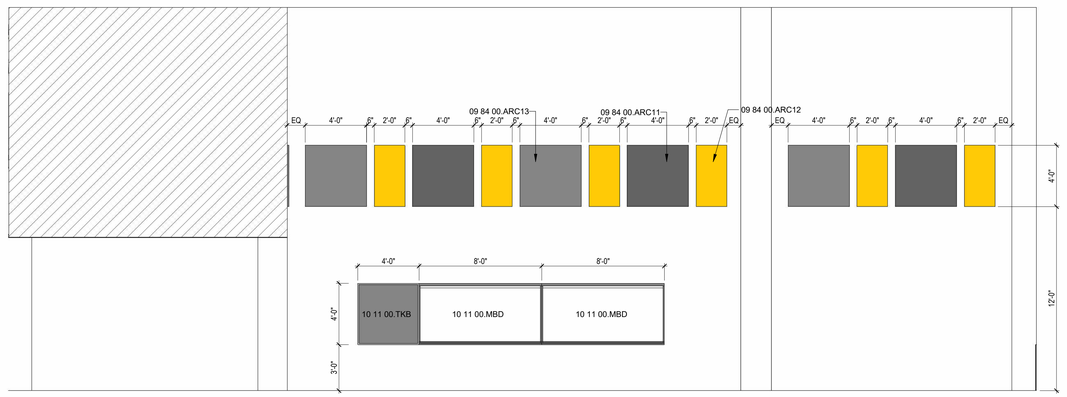
A-935

0"

1"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 84 00.ARC11	ACOUSTIC ROOM COMPONENT TYPE 11 - FABRIC WRAPPED ACOUSTICAL WALL PANELS
09 84 00.ARC12	ACOUSTIC ROOM COMPONENT TYPE 12 - FABRIC WRAPPED ACOUSTICAL WALL PANELS
09 84 00.ARC13	ACOUSTIC ROOM COMPONENT TYPE 13 - FABRIC WRAPPED ACOUSTICAL WALL PANELS
10 11 00.MBD	12' MARKERBOARD
10 11 00.TKB	TACKBOARD



1 1131 TEMP BAND - WEST ELEVATION
1/4" = 1'-0"

INTERIOR ELEVATIONS
A-939
FOR BLUEBEAM LABELING/OCR:

Plot Stamp:
1/8/2026 1:47:10 PM

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TX FIRM: BR 1608

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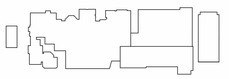
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

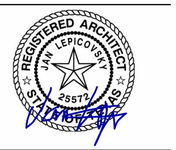
ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN

NORTH: PLAN ≈ TRUE



CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/09/01

CHECKED BY: Checker

DRAWN BY: Author

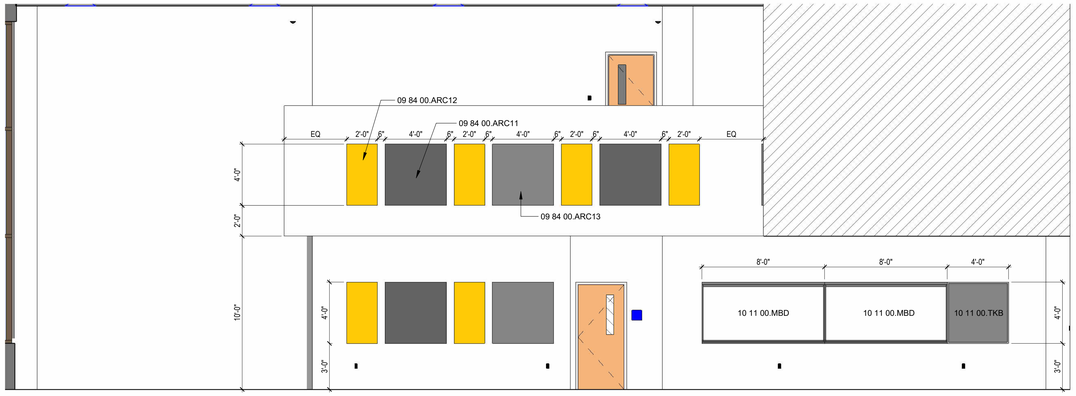
INTERIOR ELEVATIONS

A-939 3

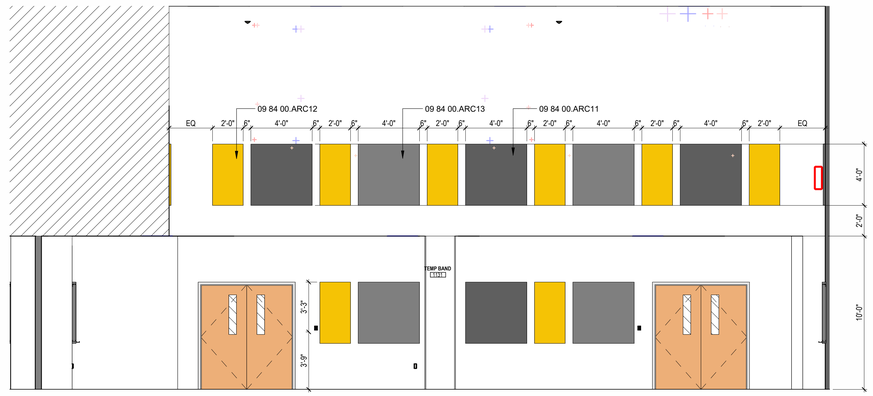
INTERIOR ELEVATIONS
A-940
FOR BLUEBEAM LABELING/OCR:

KEYNOTE LEGEND

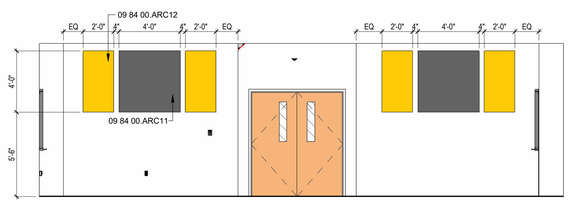
NUMBER	DESCRIPTION
09 84 00.ARC11	ACOUSTIC ROOM COMPONENT TYPE 11 - FABRIC WRAPPED ACOUSTICAL WALL PANELS
09 84 00.ARC12	ACOUSTIC ROOM COMPONENT TYPE 12 - FABRIC WRAPPED ACOUSTICAL WALL PANELS
09 84 00.ARC13	ACOUSTIC ROOM COMPONENT TYPE 13 - FABRIC WRAPPED ACOUSTICAL WALL PANELS
10 11 00.MBD	12' MARKERBOARD
10 11 00.TKB	TACKBOARD



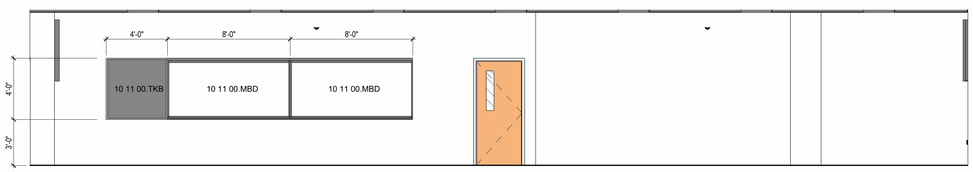
6 1131 TEMP BAND - EAST
1/4" = 1'-0"



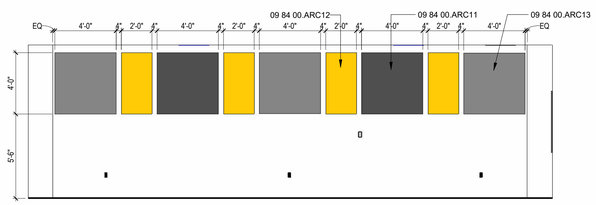
5 1131 TEMP BAND - SOUTH
1/4" = 1'-0"



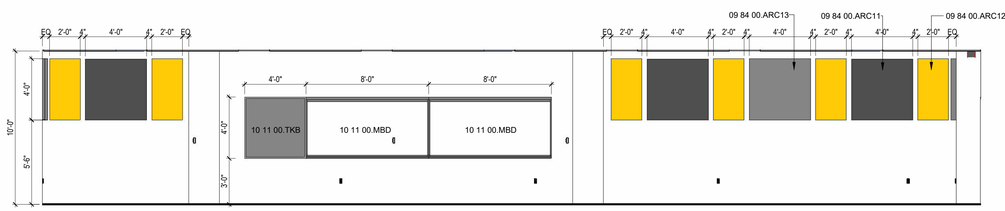
4 1131.3 TEMP CHOIR - SOUTH ELEVATION
1/4" = 1'-0"



3 1131.3 TEMP CHOIR - WEST ELEVATION
1/4" = 1'-0"



2 1131.3 TEMP CHOIR - NORTH ELEVATION
1/4" = 1'-0"



1 1131.3 TEMP CHOIR - EAST ELEVATION
1/4" = 1'-0"

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TX FIRM: BR 1608
HOUSTON, TX
713-965-6608

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/09/01

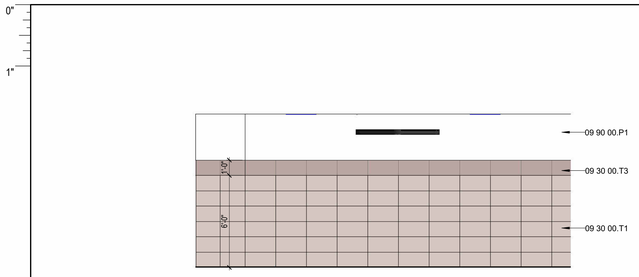
CHECKED BY: DZ
DRAWN BY: DZ

INTERIOR ELEVATIONS

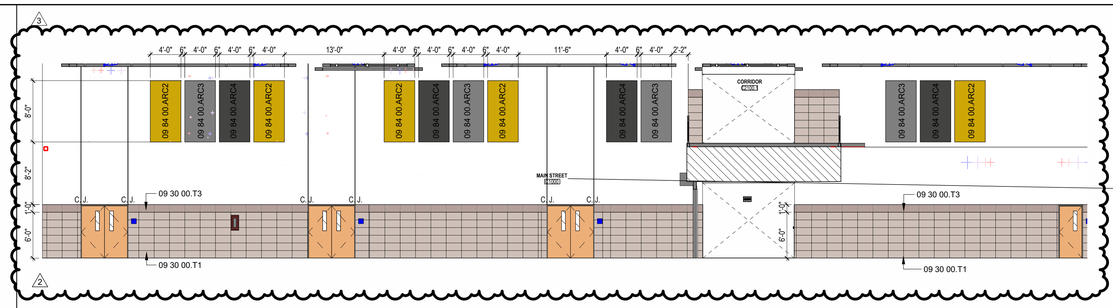
A-940

Plot Stamp:
1/8/2026 1:47:22 PM

INTERIOR ELEVATIONS
A-941
FOR BLUEBEAM LABELING/DOOR:

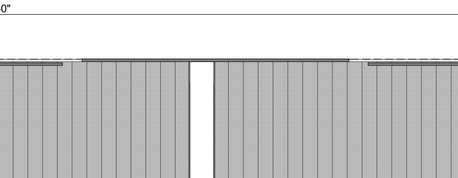


08 1135 - WEST INTERIOR ELEVATION
1/4" = 1'-0"



07 MULTIPURPOSE SOUTH ENTRY 2 OF 2
1/8" = 1'-0"

06 MULTIPURPOSE EAST ENTRY
1/8" = 1'-0"



05 1135 - EAST INTERIOR ELEVATION
1/4" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
06 20 00.PL1	PLASTIC LAMINATE, TYPE 1 - [CASEWORK AND DOORS]
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]
09 30 00.T3	TILE TYPE 3 - [WAINSCOT ACCENT TILE]
09 30 00.T8	TILE TYPE 8 - [DRINKING FOUNTAIN]
09 84 00.ARC2	ACOUSTIC ROOM COMPONENT TYPE 2 - WALL ACOUSTIC PANELS
09 84 00.ARC3	ACOUSTIC ROOM COMPONENT TYPE 2 - WALL ACOUSTIC PANELS
09 84 00.ARC4	ACOUSTIC ROOM COMPONENT TYPE 2 - WALL ACOUSTIC PANELS
09 90 00.P1	PAINT TYPE 1 - [FIELD]

GLAZING MATERIALS LEGEND

GI1
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR INTERIOR PANE

GL1
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR LAMINATED INTERIOR PANE

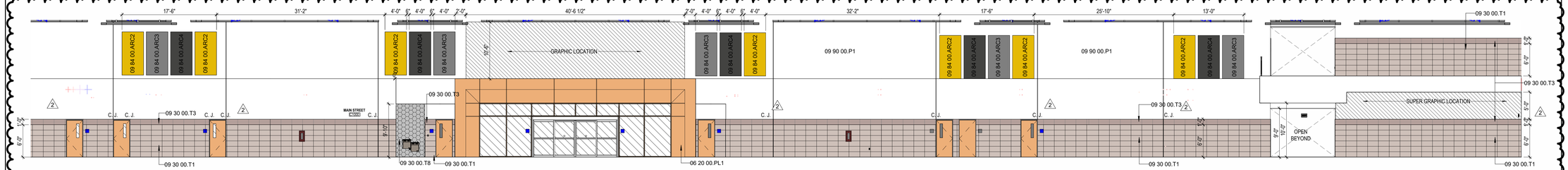
GI2
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT INTERIOR PANE

GL2
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT LAMINATED INTERIOR PANE

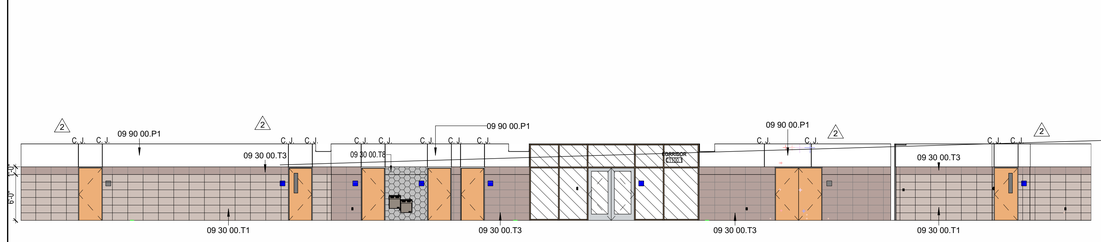
GG1
1/4 INCH CLEAR, FLOAT GLASS

GS1
1" INSULATED UNIT, BACK PAINTED ON SURFACE 4
COLOR: AS SELECTED BY ARCHITECT

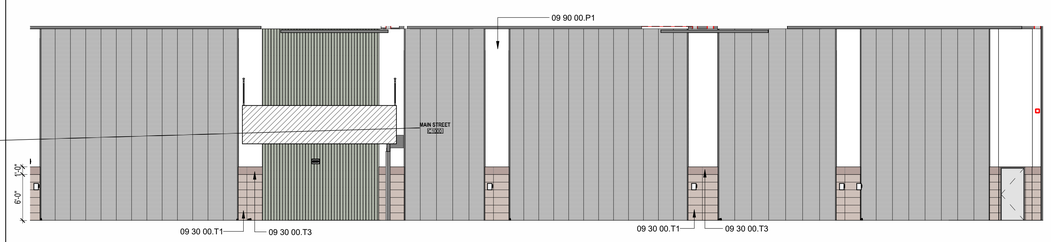
GG2
1" CLEAR INSULATED VISION GLASS



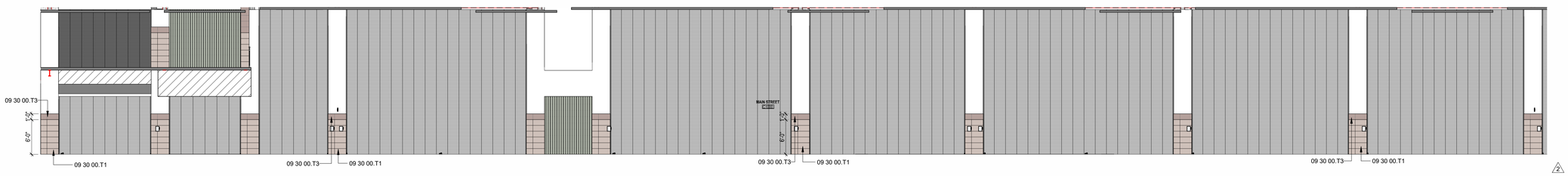
04 MULTIPURPOSE SOUTH ENTRY 1 OF 2
1/8" = 1'-0"



03 MULTIPURPOSE WEST ENTRY
1/8" = 1'-0"



02 MAIN STREET- SOUTH VIEW 2 OF 2
1/8" = 1'-0"



01 MAIN STREET- SOUTH VIEW 1 OF 2
1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:47:43 PM

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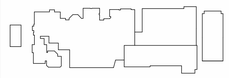
PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

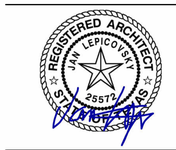
1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE





CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

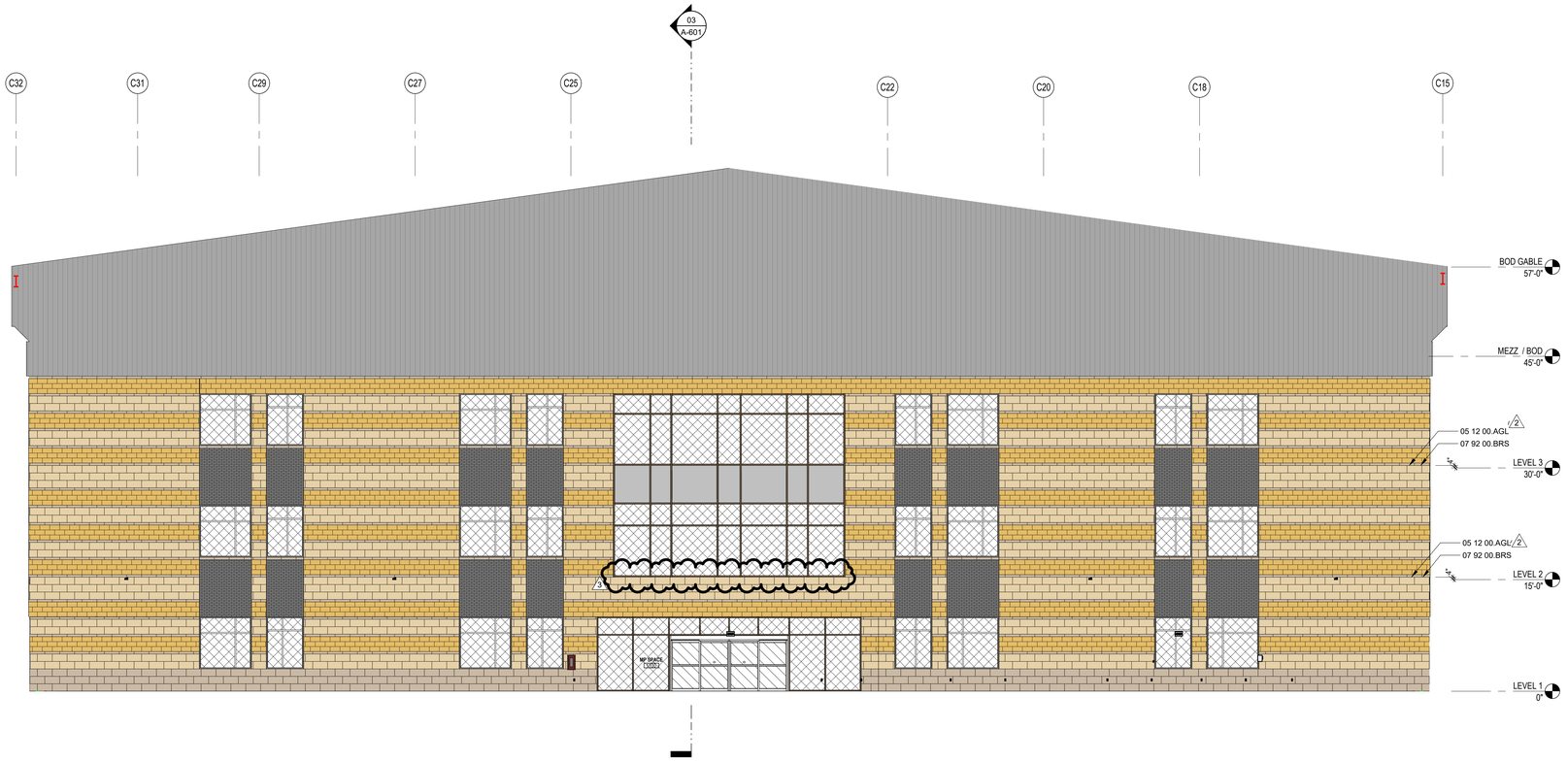
CHECKED BY: Checker
DRAWN BY: Author

INTERIOR ELEVATIONS

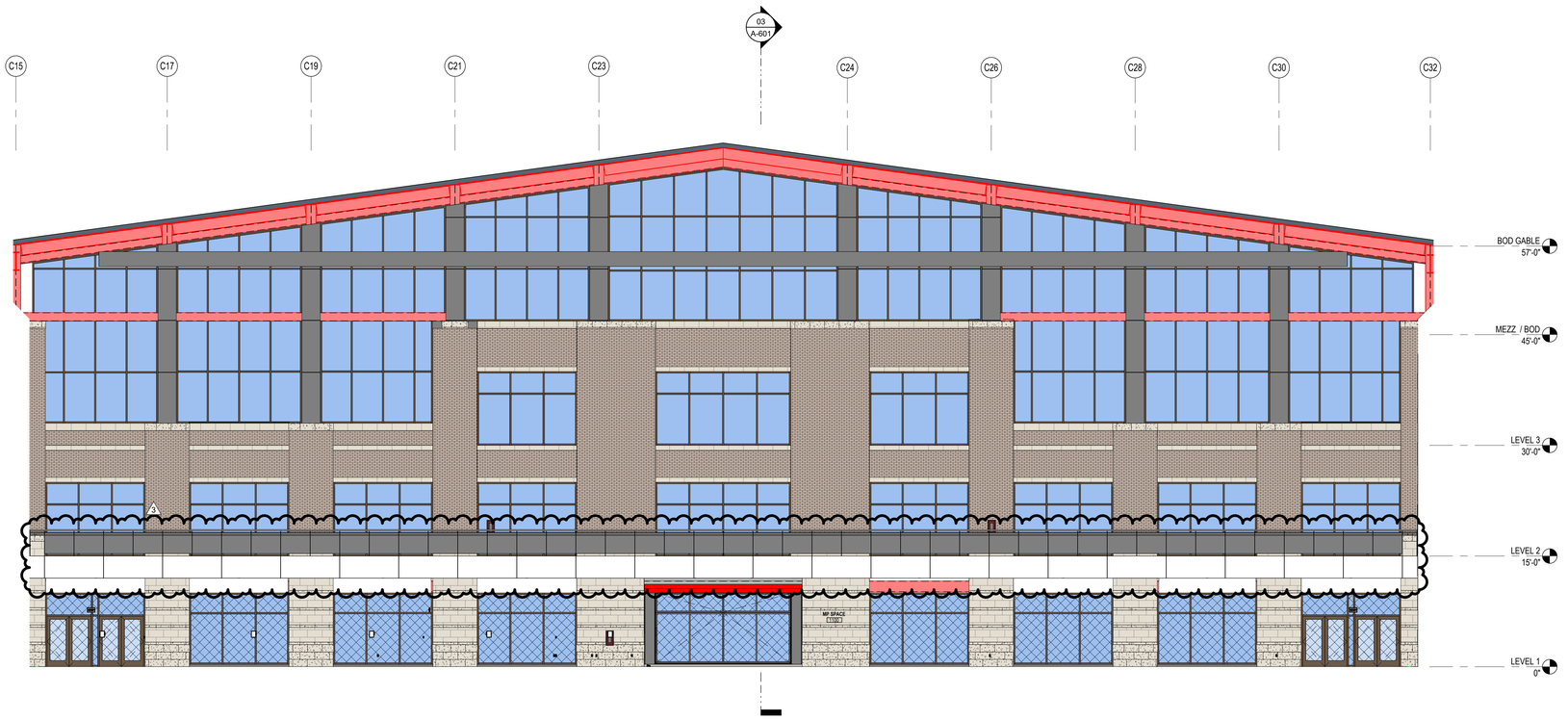
A-941

INTERIOR ELEVATIONS
A-942
FOR BLUEBEAM LABELING/DOOR:

0"
1"



02 INTERIOR MULTIPURPOSE - WEST
1/8" = 1'-0"



01 INTERIOR MULTIPURPOSE - EAST
1/8" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
05 12 00.AGL	STEEL ANGLE, REFER TO STRUCTURAL
07 92 00.BRS	CONTINUOUS BACKER ROD AND SEALANT AS REQUIRED

GLAZING MATERIALS LEGEND

GI1
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR INTERIOR PANE

GL1
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR LAMINATED INTERIOR PANE

GI2
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT INTERIOR PANE

GL2
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT LAMINATED INTERIOR PANE

GG1
1/4 INCH CLEAR, FLOAT GLASS

GS1
1" INSULATED UNIT, BACK PAINTED ON SURFACE 4
COLOR: AS SELECTED BY ARCHITECT

GG2
1" CLEAR INSULATED VISION GLASS

INTERIOR MATERIALS LEGEND

04 20 00.CV1
CONCRETE MASONRY UNIT, BURNISHED BLOCK
WHITE LIMESTONE 700
24" x 12" x 4"

04 20 00.CV2
CONCRETE MASONRY UNIT, BURNISHED BLOCK,
WHITE TERRAZZO 704
24" x 12" x 4"

04 20 00.CV3
CONCRETE ACOUSTICAL MASONRY UNIT, BURNISHED BLOCK, SOUNDBLOX BY SOUND SEAL
16" x 8" x 4"

EXTERIOR MATERIALS LEGEND

04 20 00.BK1 (R)
BRICK TYPE 1
MODULAR, RUNNING BOND
CLOUD CERAMICS
GALENA NEW BLEND

04 20 00.BK2 (R)
BRICK TYPE 2
MODULAR, RUNNING BOND
CLOUD CERAMICS
MIDNIGHT IRONSPOT VELOUR

07 42 13.MPU1
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
DARK BRONZE

07 42 13.MPU2
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
SHASTA WHITE

07 42 13.MPU3
UNINSULATED METAL WALL PANEL
BERRIDGE, DOUBLE-RIB PANEL WITH EXPOSED FASTENERS,
DARK BRONZE

04 73 13.CST2
SPLIT-FACE GINGER STONE VENEER,
ARRISCRAFT

04 73 13.CST1
SMOOTH WHITE LIMESTONE
12"x24", ARRISCRAFT

07 42 13.23.MCM1
ALUMINUM METAL COMPOSITE MATERIAL WALL PANEL

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

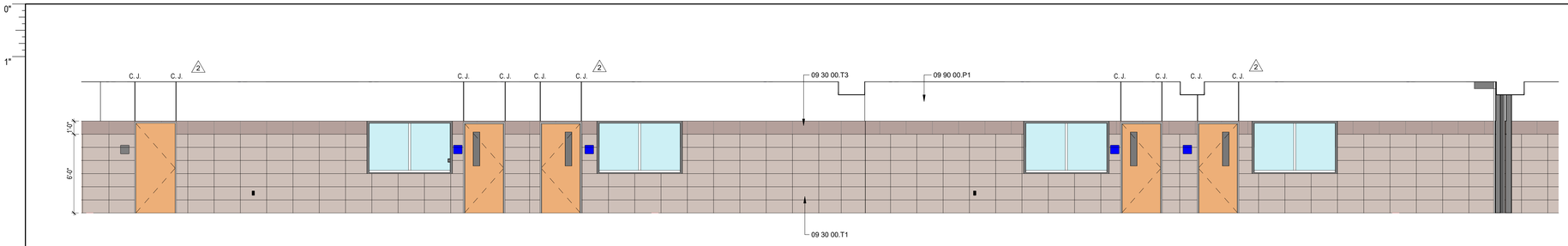
CHECKED BY: Checker
DRAWN BY: Author

INTERIOR ELEVATIONS

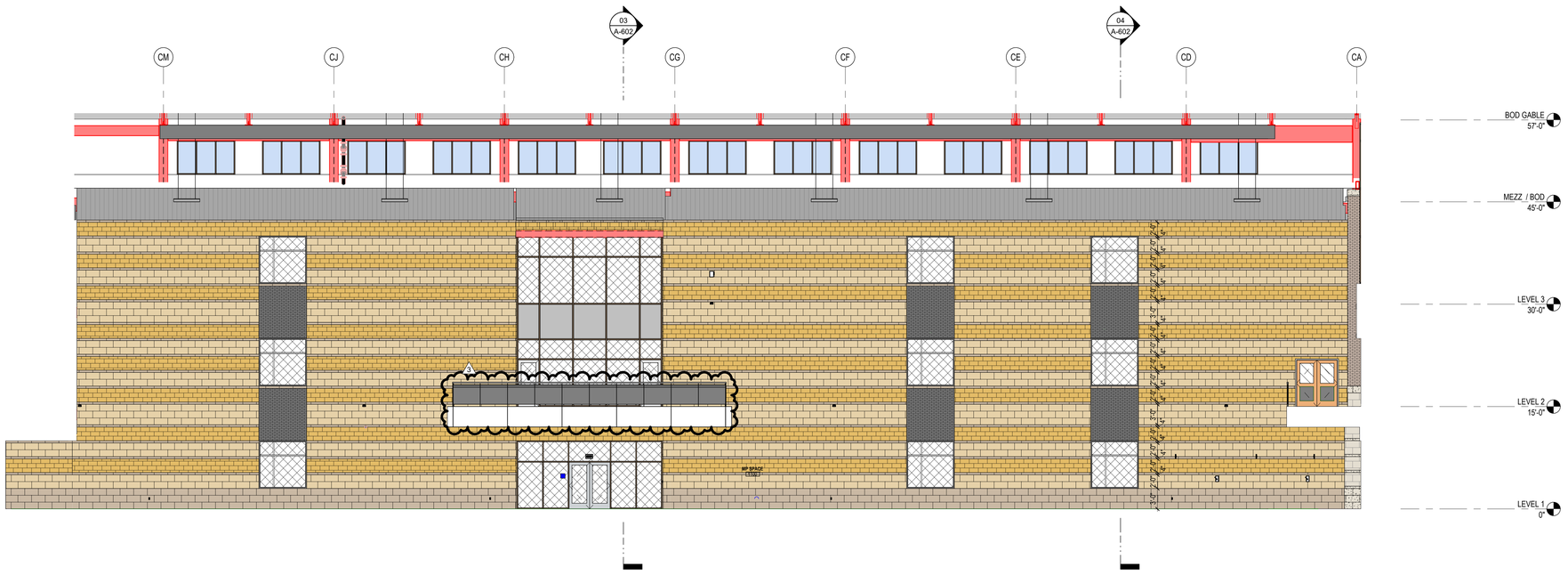
A-942

Plot Stamp:
1/8/2026 1:47:50 PM

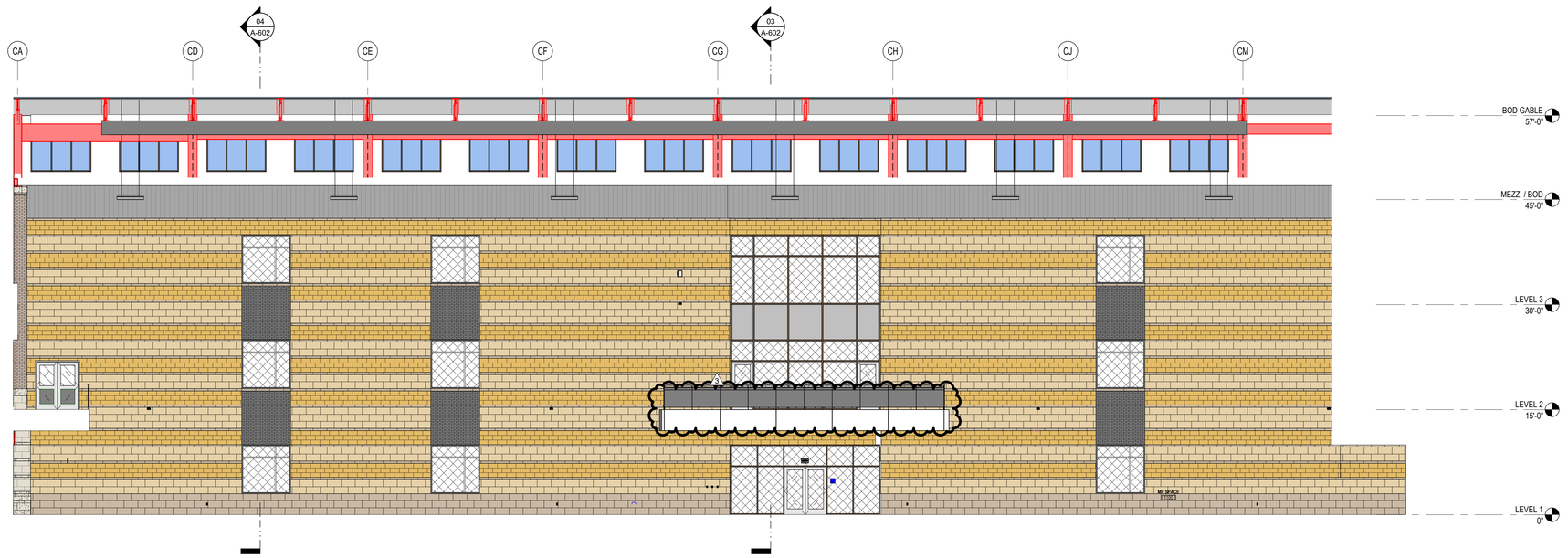
INTERIOR ELEVATIONS
A-943
FOR BLUEBEAM LABELING/DOOR:



03 TYPICAL CLASSROOM CORRIDOR
1/4" = 1'-0"



02 INTERIOR MULTIPURPOSE - NORTH
1/8" = 1'-0"



01 INTERIOR MULTIPURPOSE - SOUTH
1/8" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
09 30 00.T1	TILE TYPE 1 - [WAINSCOT FIELD TILE]
09 30 00.T3	TILE TYPE 3 - [WAINSCOT ACCENT TILE]
09 90 00.P1	PAINT TYPE 1 - [FIELD]

GLAZING MATERIALS LEGEND

GI1
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR INTERIOR PANE

GL1
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- CLEAR LAMINATED INTERIOR PANE

GI2
1" INSULATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT INTERIOR PANE

GL2
1" INSULATED LAMINATED UNIT
- BRONZE TINT EXTERIOR PANE
- TRANSLUCENT LAMINATED INTERIOR PANE

GG1
1/4 INCH CLEAR, FLOAT GLASS

GS1
1" INSULATED UNIT, BACK PAINTED ON SURFACE 4
COLOR: AS SELECTED BY ARCHITECT

GG2
1" CLEAR INSULATED VISION GLASS

INTERIOR MATERIALS LEGEND

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24" x 12" x 4"

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CONCRETE MASONRY UNIT, BURNISHED BLOCK, WHITE TERRAZZO 704
24" x 12" x 4"

04 20 00.CV3
CONCRETE ACOUSTICAL MASONRY UNIT, BURNISHED BLOCK, SOUNDBLOX BY SOUND SEAL
16" x 8" x 4"

EXTERIOR MATERIALS LEGEND

04 20 00.BK1 (R)
BRICK TYPE 1,
MODULAR, RUNNING BOND
CLOUD CERAMICS
GALENA NEW BLEND

04 73 13.CST2
SPLIT-FACE GINGER STONE VENEER,
ARRISCRAFT

04 20 00.BK2 (R)
BRICK TYPE 2,
MODULAR, RUNNING BOND
CLOUD CERAMICS
MIDNIGHT IRONSPOT VELOUR

04 73 13.CST1
SMOOTH WHITE LIMESTONE 12"x24", ARRISCRAFT

07 42 13.MPU1
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
DARK BRONZE

07 42 13.23.MCM1
ALUMINUM METAL COMPOSITE MATERIAL WALL PANEL

07 42 13.MPU2
UNINSULATED METAL WALL PANEL
BERRIDGE FW-12,
SHASTA WHITE

07 42 13.MPU3
UNINSULATED METAL WALL PANEL
BERRIDGE, DOUBLE-RIB PANEL WITH EXPOSED FASTENERS,
DARK BRONZE

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1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

LICENSED REGISTERED ARCHITECT
JAN LEPICOVSKY
25572

CLIENT
Galena Park ISD

DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/11
2	ADD 03	2025/12/19
3	ADD 05	2026/09/01

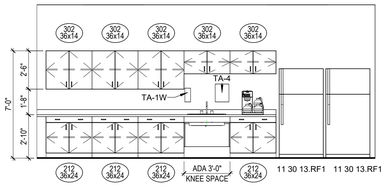
CHECKED BY: Checker
DRAWN BY: Author

INTERIOR ELEVATIONS

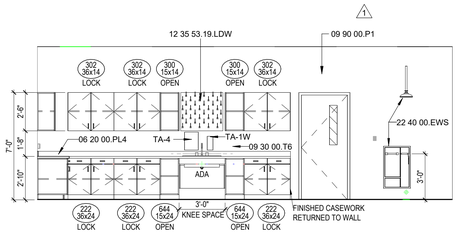
A-943

Plot Stamp:
1/8/2026 1:47:58 PM

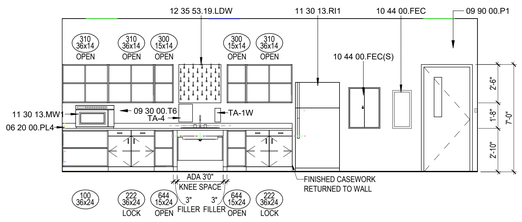
CASEWORK ELEVATION
A-955
FOR BLUEBEAM LABELING/DOOR:



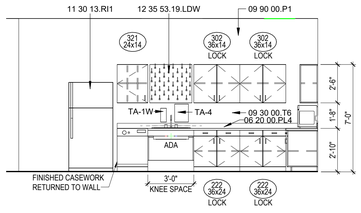
14 1111 18+ STUDENTS NORTH ELEV.
1/4" = 1'-0"



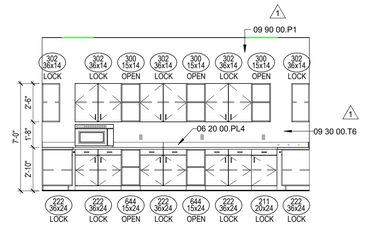
2 3119.1 SHARED PREP ROOM WEST ELEV
1/4" = 1'-0"



13 3104.1 PREP ROOM EAST ELEV
1/4" = 1'-0"



10 3119.1 SHARED PREP ROOM EAST ELEV
1/4" = 1'-0"



11 3119.1 SHARED PREP ROOM SOUTH ELEV
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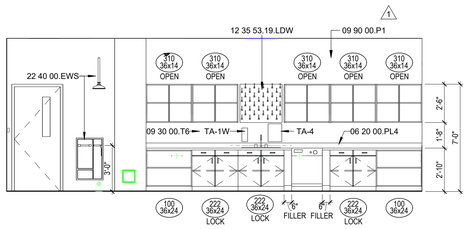
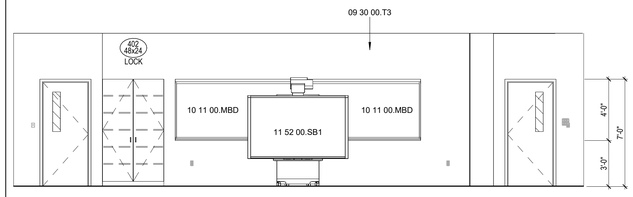
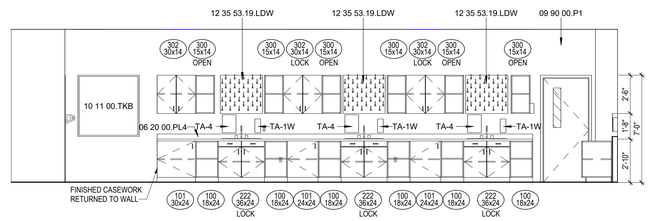


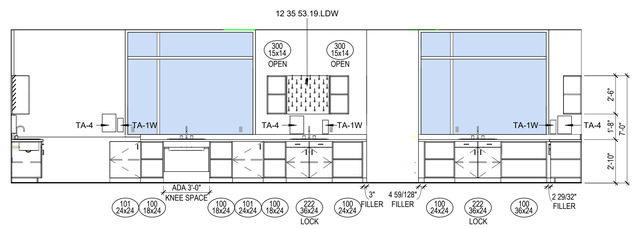
09 3104.1 PREP ROOM WEST ELEV
1/4" = 1'-0"



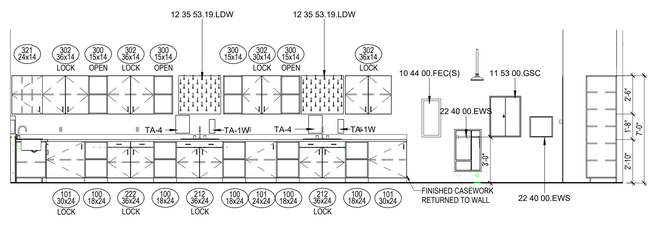
08 3112 BIO LAB SOUTH ELEV
1/4" = 1'-0"



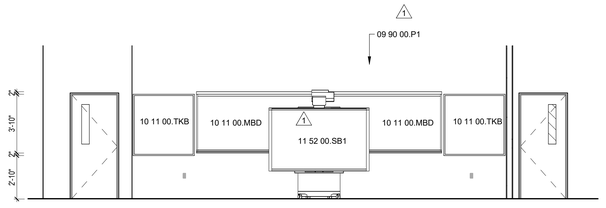
07 3112 BIO LAB WEST ELEV
1/4" = 1'-0"



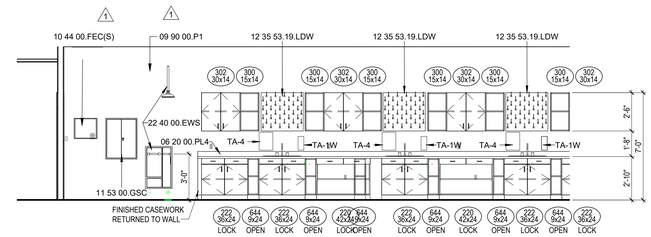
06 3112 BIO LAB NORTH ELEV
1/4" = 1'-0"



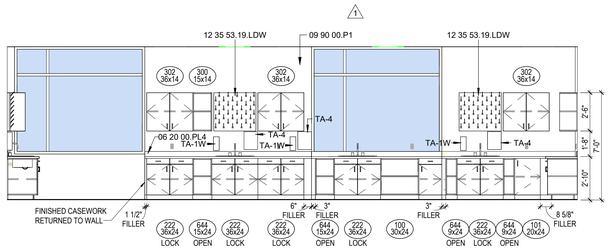
05 3112 BIO LAB EAST ELEV
1/4" = 1'-0"



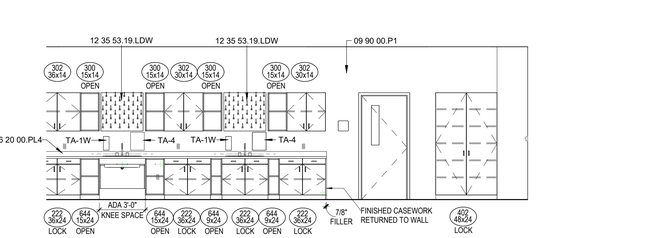
04 3108 BIO LAB SOUTH ELEV
1/4" = 1'-0"



03 3108 BIO LAB WEST ELEV
1/4" = 1'-0"



02 3108 BIO LAB NORTH ELEV
1/4" = 1'-0"



01 3108 BIO LAB EAST ELEV
1/4" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
06 20 00.PL4	PLASTIC LAMINATE, TYPE 4 - [COUNTERTOPS]
09 30 00.T3	TILE TYPE 3 - [WAINSCOT ACCENT TILE]
09 30 00.T6	TILE TYPE 6 - [RR WALL TILE]
09 90 00.P1	PAINT TYPE 1 - [FIELD]
10 11 00.MBD	12' MARKERBOARD
10 11 00.TKB	TACKBOARD
10 44 00.FEC	FIRE EXTINGUISHER CABINET
10 44 00.FEC(S)	FIRE EXTINGUISHER CABINET, SURFACE-MOUNTED
11 30 13.MW1	[COUNTERTOP] MICROWAVE
11 30 13.RF1	[FREE-STANDING] REFRIGERATOR
11 30 13.RI1	
11 52 00.SB1	SMARTBOARD (OFOI)
11 53 00.GSC	
12 35 53.19.LDW	LABORATORY DRYING RACK, WALL MOUNTED
22 40 00.EWS	EMERGENCY EYEWASH AND SHOWER, REFER TO PLUMBING
TA-1W	SOAP DISPENSER, WALL-MOUNTED, TYPICAL
TA-4	PAPER TOWEL DISPENSER, TYPICAL

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713-865-0008

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25577
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

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CHECKED BY: Checker
DRAWN BY: Author

CASEWORK ELEVATION

A-955

Plot Stamp:
1/8/2026 1:48:21 PM

SIGNAGE GRAPHIC STANDARDS
AG051
FOR BLUEBEAM LABELING/DOOR:

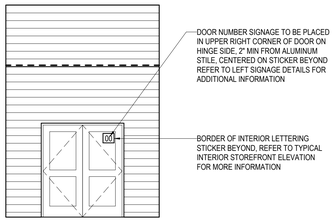
0"
1"

4" H 1/2" STROKE ARIAL FONT, REFLECTIVE NON-GLARE CUT VINYL IN WHITE

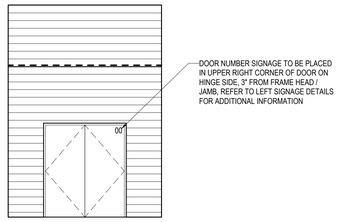
BLACK VINYL STICKER WITH BLACK BACK, NON-GLARE

XX

DOOR NUMBER SIGNAGE ON INTERIOR GLASS



TYPICAL EXTERIOR STOREFRONT
***ALL EXTERIOR MOUNTED STICKERS TO BE EXTERIOR GRADE**

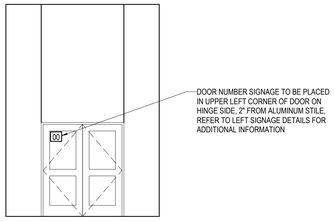


TYPICAL EXTERIOR METAL DOOR
***ALL EXTERIOR MOUNTED STICKERS TO BE EXTERIOR GRADE**

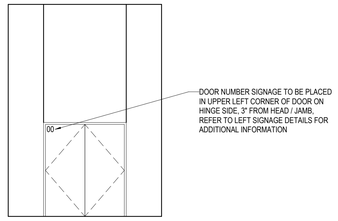
4" H 1/2" STROKE ARIAL FONT, REFLECTIVE NON-GLARE CUT VINYL IN WHITE

XX

DOOR NUMBER SIGNAGE ON HOLLOW METAL OR EXTERIOR GLASS



TYPICAL INTERIOR STOREFRONT

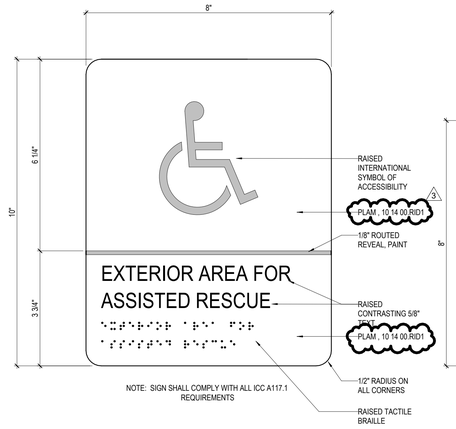


TYPICAL INTERIOR METAL DOOR

02 SIGNAGE - DOOR NUMBER GRAPHICS
6" = 1'-0"

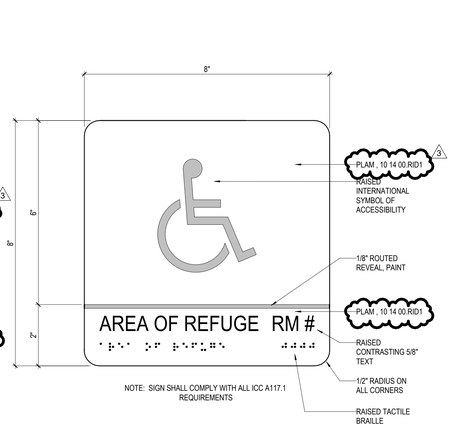
GENERAL GRAPHICS NOTES

1. ALL GRAPHIC SIGNAGE SHALL BE COMPLIANT WITH ALL APPLICABLE ACCESSIBILITY REQUIREMENTS, VERIFY REQUIREMENTS AND COMPLIANCE PRIOR TO FABRICATION.
2. PROVIDE AND INSTALL ONE SIGN FOR EVERY DOOR IN DOOR SCHEDULE, PLUS ONE SIGN FOR EVERY PERMANENT ROOM AND OR SPACE WITHOUT A DOOR.
3. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO DOOR OR AT DOUBLE LEAF DOOR LOCATIONS, INSTALL SIGN ON THE NEAREST ADJACENT WALL.
4. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE.
5. CHARACTER FONTS SHALL BE UPPERCASE, SANS SERIF, HELVITICA MEDIUM, NON-ITALIC, NON-OBLIQUE, NON-SCRIPT, NON-DECORATIVE, RAISED 1/32 INCH, PAINTED WHITE.
6. CHARACTER FONT PROPORTIONS SHALL BE HAVE A WIDTH OF THE UPPERCASE LETTER "O" 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".
7. CHARACTER FONT HEIGHT SHALL BE 5/8 INCH HIGH MINIMUM AND 2 INCH HIGH MAXIMUM.
8. CHARACTER FONT STROKE THICKNESS OF THE UPPER CASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
9. CHARACTER FONT SPACING OF CHARACTERS WITH RECTANGULAR CROSS SECTIONS SHALL BE 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM.
10. CHARACTER FONT SPACING OF CHARACTERS WITH NON-RECTANGULAR CROSS SECTIONS SHALL BE 1/16 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS, AND 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SETCIONS.
11. CHACTER FONTS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8 INCH MINIMUM.
12. GRADE 2 BRAILLE SHALL ACCOMPANY ALL RAISED TEXT. BRAILLE DOTS SHALL HAVE DOMED OR ROUNDED SHAPE, AND BE POSITIONED BELOW THE CORRESPONDING TEXT. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT.
13. BRAILLE SHALL BE SEPARATED 3/8 INCH MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS.
14. PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6 INCHES MINIMUM IN HEIGHT.
15. SIGN MATERIAL SHALL BE 1/4 INCH THICK WITH MATTE, NON-GLARE PLASTIC LAMINATE FRONT FACE AND MATTE, NON-GLARE PLASTIC LAMINATE BACK FACE. CHARACTER AND SYMBOL COLOR SHALL CONTRAST WITH BACKGROUND COLOR. COLORS SHALL BE SELECTED BY ARCHITECT AND OR OWNER.
16. SIGN EDGE SHALL BE PAINTED ALL AROUND TO MATCH SIGN FACE.
17. CONTRACTOR TO PROVIDE ONE SIGN PER DOOR OR NUMBER IN SCHEDULE WHICHEVER IS GREATER.



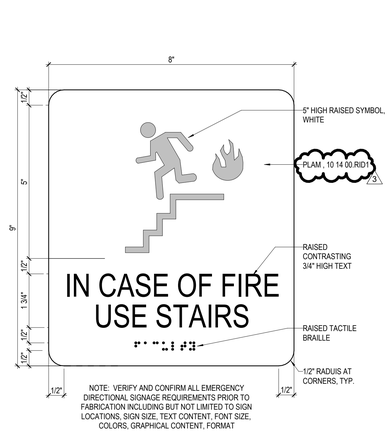
NOTE: SIGN SHALL COMPLY WITH ALL ICC A117.1 REQUIREMENTS

K EGRESS



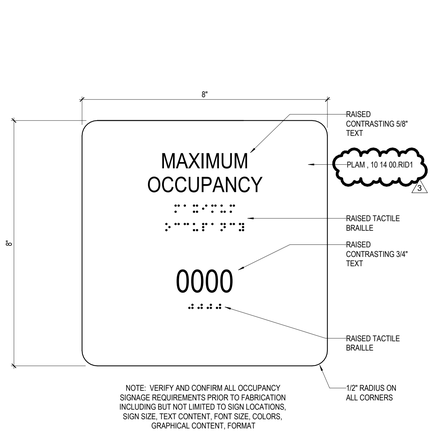
NOTE: SIGN SHALL COMPLY WITH ALL ICC A117.1 REQUIREMENTS

J EGRESS



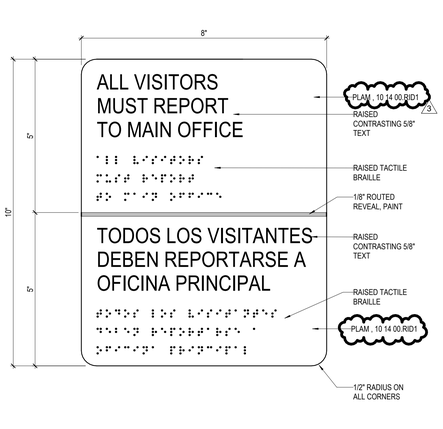
NOTE: VERIFY AND CONFIRM ALL EMERGENCY DIRECTIONAL SIGNAGE REQUIREMENTS PRIOR TO FABRICATION INCLUDING BUT NOT LIMITED TO SIGN LOCATIONS, SIGN SIZE, TEXT CONTENT, FONT SIZE, COLORS, GRAPHICAL CONTENT, FORMAT

H EGRESS

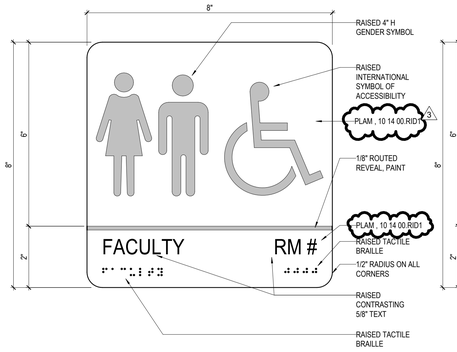


NOTE: VERIFY AND CONFIRM ALL OCCUPANCY SIGNAGE REQUIREMENTS PRIOR TO FABRICATION INCLUDING BUT NOT LIMITED TO SIGN LOCATIONS, SIGN SIZE, TEXT CONTENT, FONT SIZE, COLORS, GRAPHICAL CONTENT, FORMAT

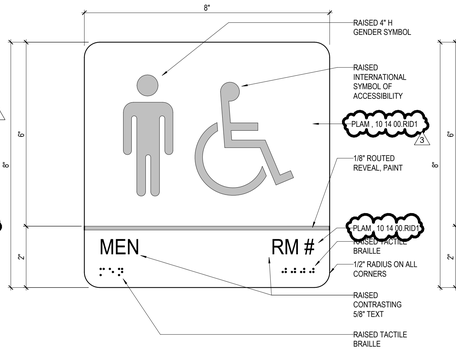
G ASSEMBLY



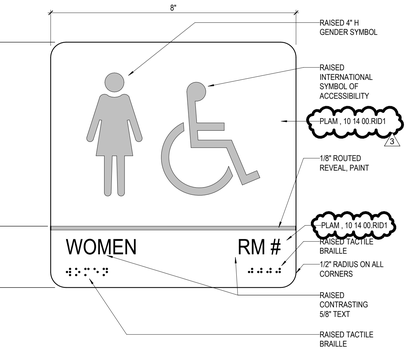
F ADMINISTRATIVE



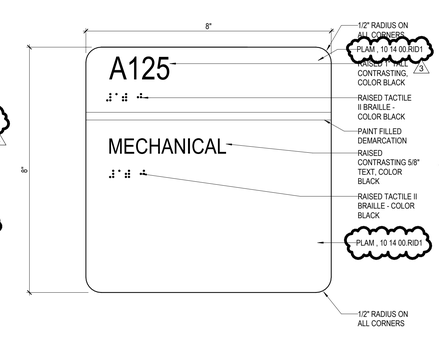
E FACULTY / ASSISTED USE / UNISEX



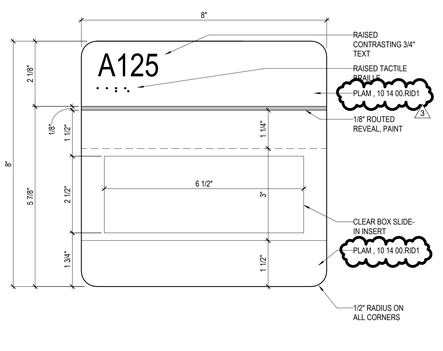
D MEN / BOYS



C WOMEN / GIRLS



B MECHANICAL



A ADMINISTRATIVE

01 SIGNAGE - GRAPHICS
6" = 1'-0"

Plot Stamp:
1/8/2026 1:48:22 PM

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713-865-6008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
STEVEN LEPICOVSKY
25572
STATE OF TEXAS

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/09/01

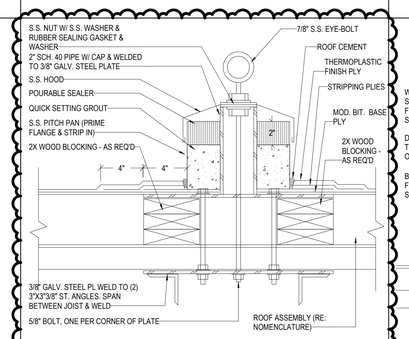
CHECKED BY: Checker
DRAWN BY: Author

SIGNAGE GRAPHIC STANDARDS

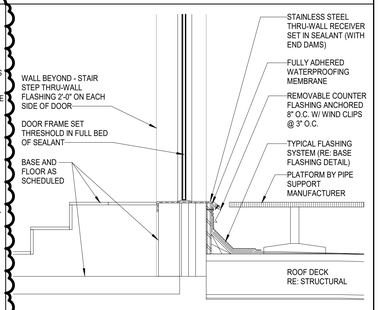
AG051

0"
1"

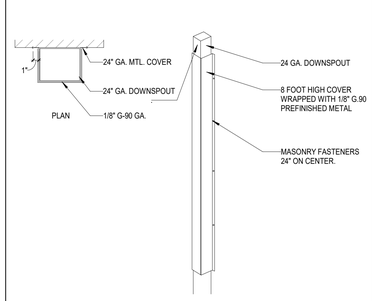
ROOF DETAILS
A-323
FOR BLUEBEAM LABELING/OCR:



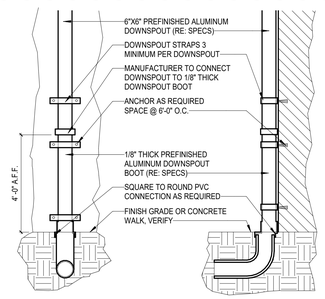
14 ROOFING (MB) - GUY WIRE
N.T.S.



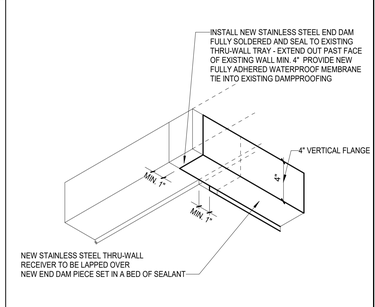
3 ROOF ACCESS DOOR
N.T.S.



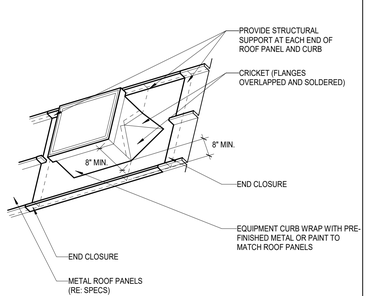
9 ROOFING - DOWNSPOUT PROTECTION
N.T.S.



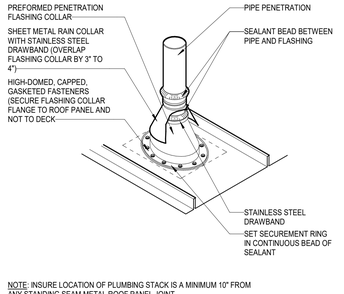
8 ROOFING - DOWNSPOUT TO BOOT
N.T.S.



7 ROOFING - THRU-WALL TRAY
N.T.S.

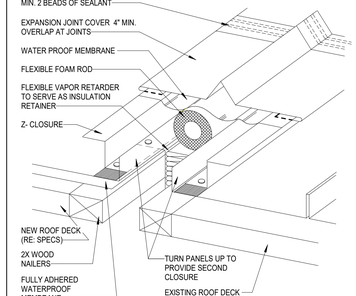


6 (METAL) - EQUIPMENT CURB
N.T.S.

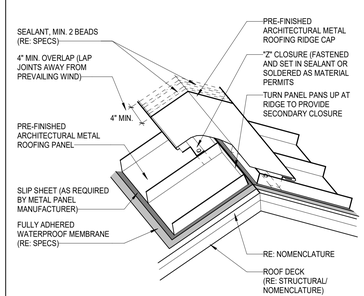


NOTE: INSURE LOCATION OF PLUMBING STACK IS A MINIMUM 10" FROM ANY STANDING SEAM METAL ROOF PANEL JOINT.

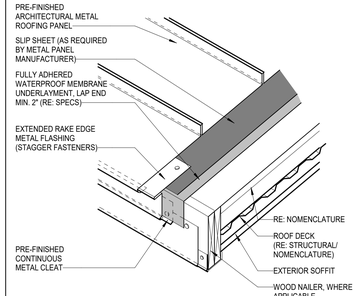
5 (METAL) - PLUMBING STACK
N.T.S.



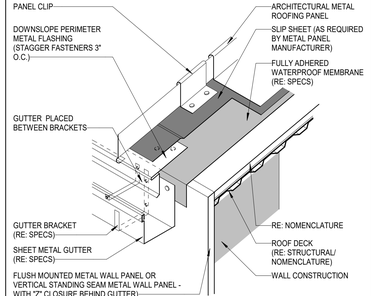
4 (METAL) EXPANSION JOINT
N.T.S.



3 (METAL) RIDGE
N.T.S.



2 (METAL) EDGE W/ RAKE
N.T.S.



1 (METAL) ROOF EDGE W/ GUTTER
N.T.S.

Plot Stamp:
1/7/2026 4:07:15 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/09/01

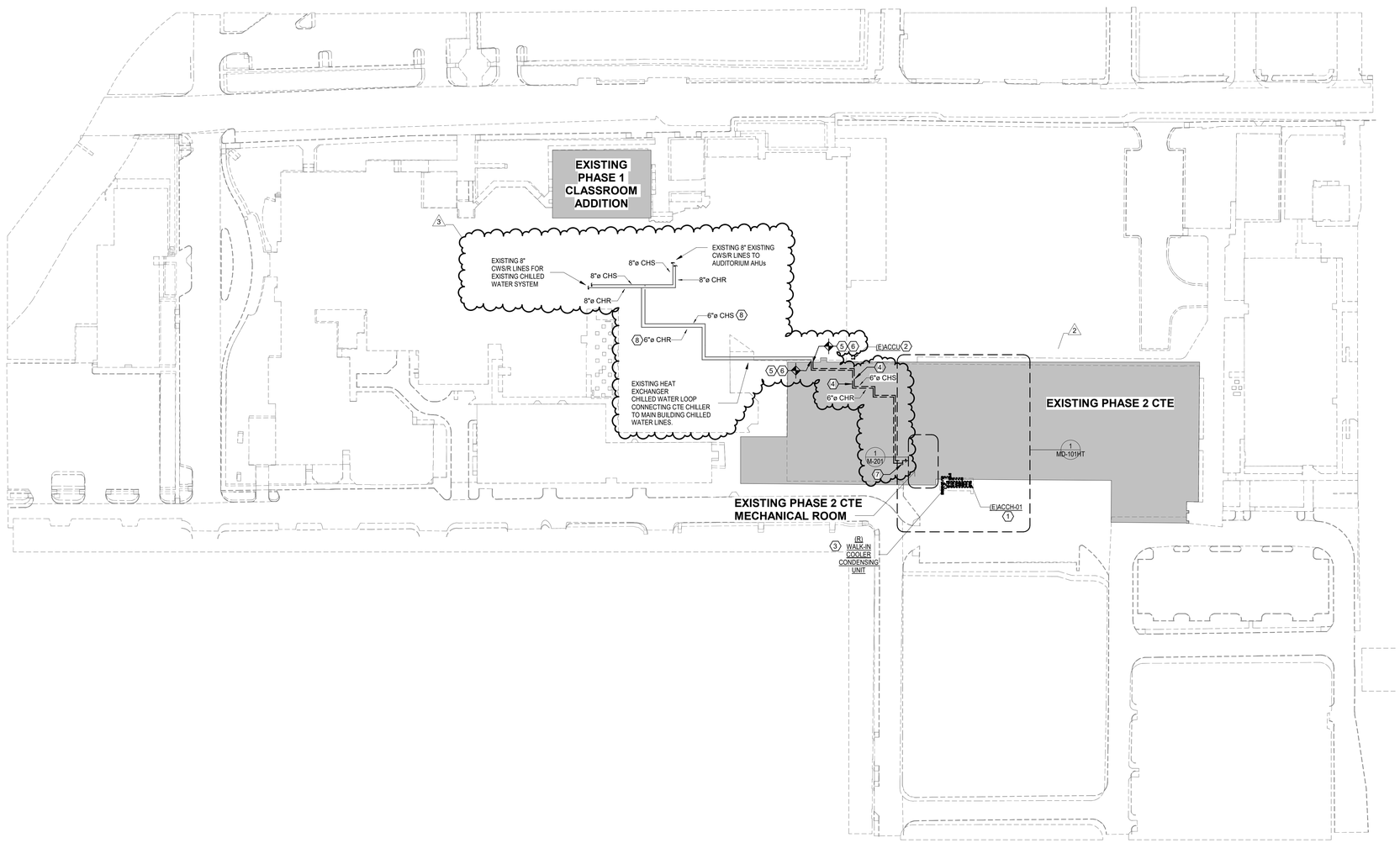
CHECKED BY: ES
DRAWN BY: DAS

ROOF DETAILS

A-323

0"
1"

MECHANICAL DEMO SITE PLAN
MD-100
FOR BLUEBEAM LABELING/OCR:



MECHANICAL KEYED NOTES:

1. EXISTING CTE CHILLER TO BE RELOCATED TO MAKE ROOM FOR PKG. 3C CENTRAL PLANT. SEE MD-101HT FOR MORE DETAILS
2. EXISTING CONDENSING UNIT TO BE RELOCATED. EXISTING REFRIGERANT LINES TO BE EXTENDED. SEE MS-101 FOR NEW LOCATION.
3. EXISTING WALK-IN COOLER UNDER CHILLER PLATFORM TO RELOCATED DURING THE SUMMER OF 2026 TO MAKE SPACE FOR ARRIVAL OF NEW CENTRAL PLANT. SEE MD-101HT FOR DETAILS. SEE M-101HT FOR NEW LOCATION.
4. EXISTING 6" CHS/R HEAT EXCHANGER LINES THRU CTE TO BE DEMOLISHED DURING THE SUMMER OF 2026 UP TO POINT INDICATED ON PLANS. COORDINATE EXACT TIMING OF DEMOLITION WITH OWNER. CONTRACTOR IS RESPONSIBILE FOR REPLACING ANY CEILING TILES OR OTHER CEILING ASSEMBLIES THAT MAY HAVE BEEN DAMAGED DURING PROCESS.
5. CAP AND SEAL 6" CHS/R HEAT EXCHANGER LINES ON LOW ROOF OF REMAINING HIGH SCHOOL BUILDING.
6. PATCH AND SEAL PENETRATION LEFT IN BLDG FROM DEMOLISHED 6" CHS/R HEAT EXCHANGER LINES PER ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
7. SEE 01:M-201 FOR 6" CHS/R CONTINUATION INTO CTE MECHANICAL ROOM.
8. 6" CHS/R HEAT EXCHANGER LINES ABOVE LOW ROOF OF EXISTING HIGH SCHOOL BLDG TO REMAIN

1 MECHANICAL DEMO SITE PLAN
SCALE: 1" = 60'-0"

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713-366-0808
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE IN ALL FOR ALL

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: Checker
DRAWN BY: Author

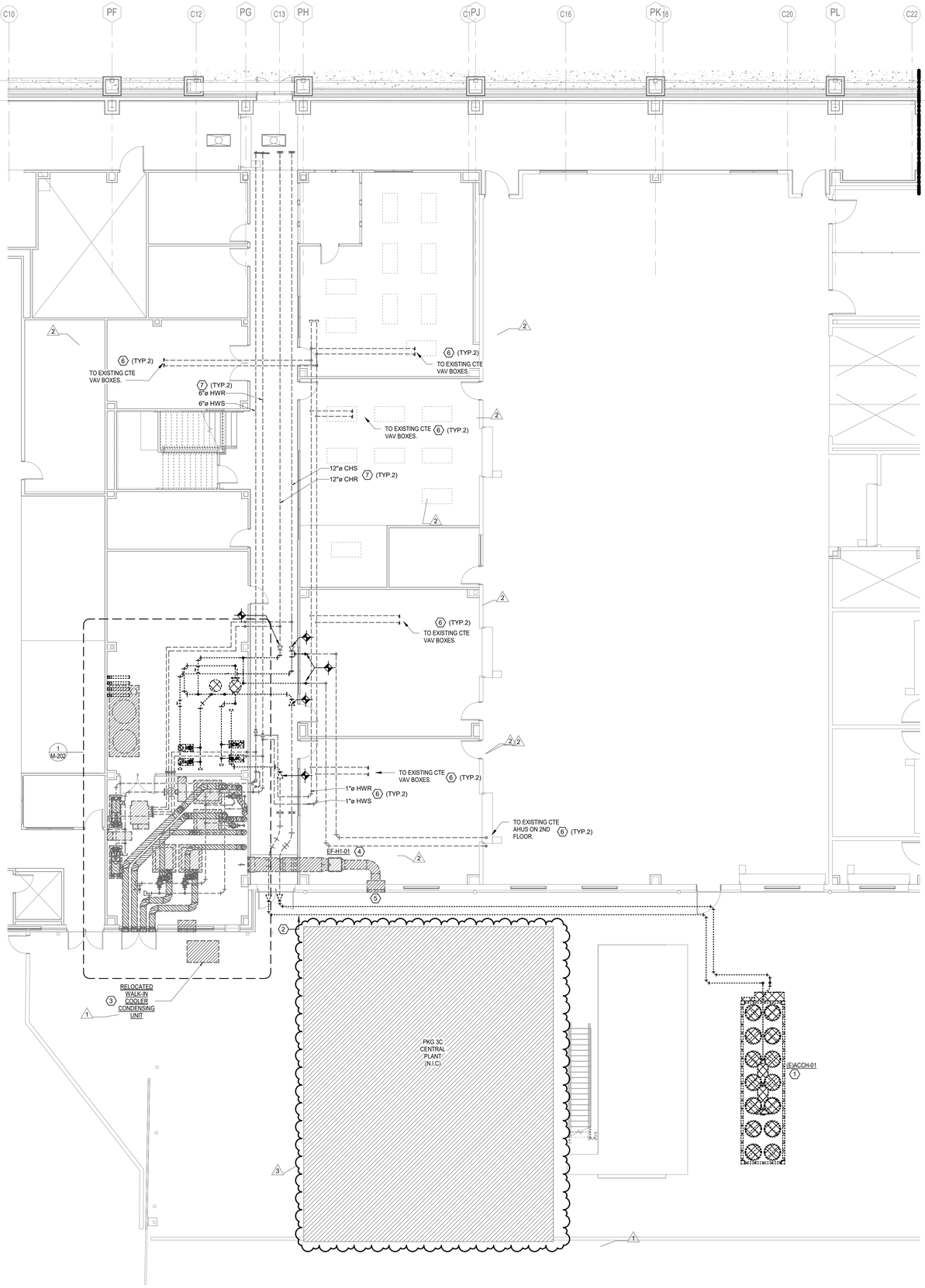
MECHANICAL DEMO SITE PLAN

MD-100

Plot Stamp:
1/8/2026 11:39:06 AM

0"
1"

1ST FLOOR MECHANICAL DEMO PLAN - AREA H - CTE
MD-101H
FOR BLUEBEAM LABELING/OCR:



MECHANICAL KEYED NOTES:

1. AFTER INSTALLATION OF CENTRAL PLANT, TEMPORARY CHILLER TO BE DEMOLISHED AND HANDED OVER TO OWNER.
2. 6" CHS/R AND SUPPORTS FOR TEMPORARY CHILLER TO BE DEMOLISHED AFTER INSTALLATION OF CENTRAL PLANT.
3. WALK IN COOLER CONDENSING UNIT RELOCATED DURING THE SUMMER OF 2026 TO MAKE ROOM FOR PKG 3C CENTRAL PLANT. FOR DETAILS, SEE M-101HT.
4. SUSPENDED INLINE EXHAUST FAN INSTALLED DURING THE SUMMER OF 2026 TO REMAIN. SEE M-101HT FOR DETAILS.
5. LOUVER INSTALLED DURING INSTALLATION OF BOILER SYSTEM TO REMAIN. SEE M-101HT FOR DETAILS.
6. EXISTING HYDRONIC PIPING TO REMAIN.
7. MAIN HYDRONIC LINES INSTALLED DURING THE SUMMER OF 2026 TO REMAIN. SEE M-101HT FOR DETAILS.

1 1ST FLOOR MECHANICAL DEMO PLAN - AREA H - CTE
1/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

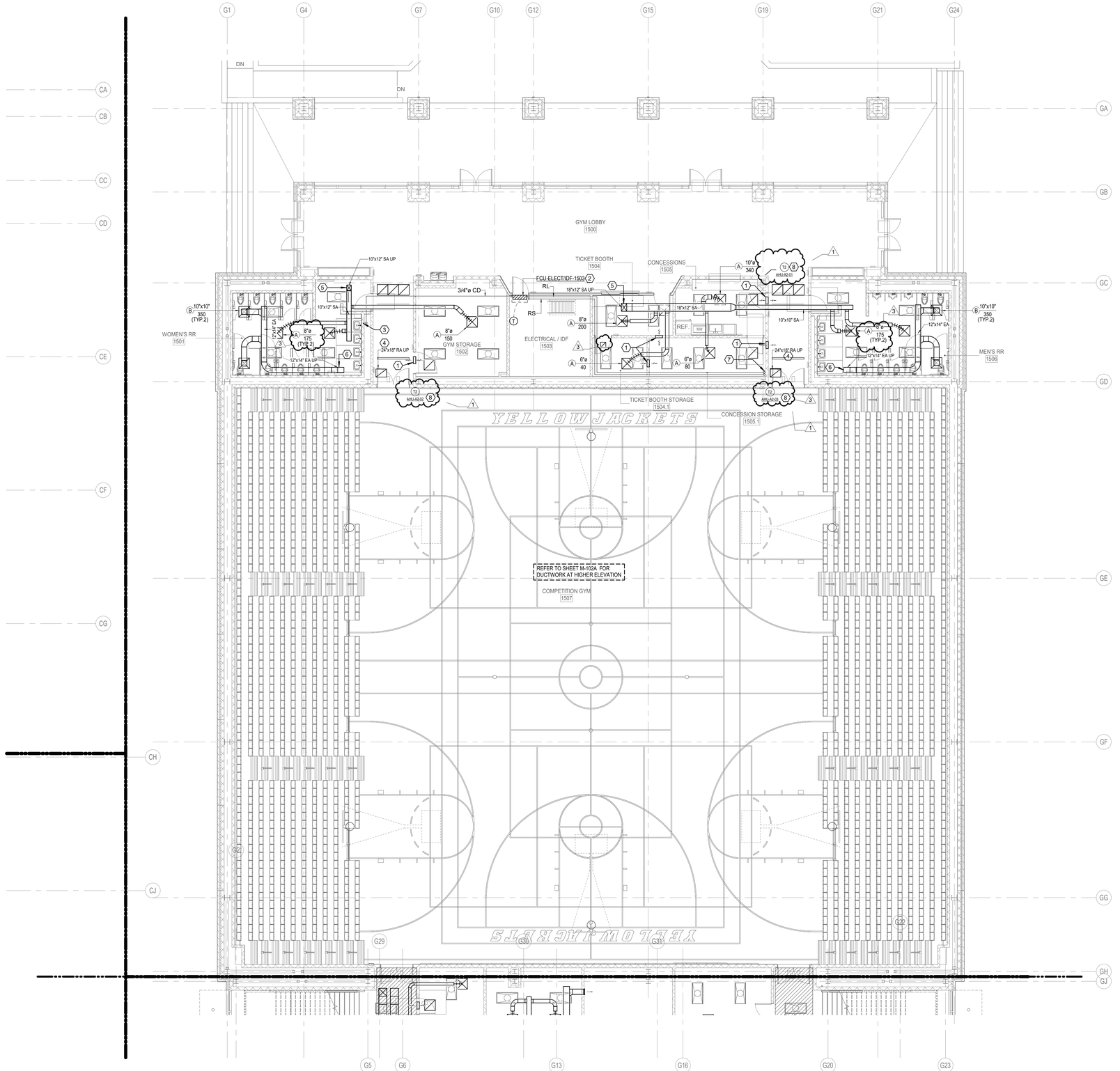
1ST FLOOR MECHANICAL DEMO PLAN - AREA H - CTE

MD-101H

Plot Stamp:
1/7/2026 8:35:21 PM

0"
1"

1ST FLOOR MECHANICAL PLAN - AREA A NEW GYM FLOOR PLAN
M-101A
FOR BLUEBEAM LABELING/OCR:



MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST LAVATORY TAIL-PIECE. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. 24" x 18" RETURN AIR OPENING FROM THE MEZZANINE LEVEL THRU SLAB.
5. SUPPLY DUCT FROM THE LEVEL ABOVE. REFER TO M-207 FOR CONTINUATION.
6. EXHAUST AIR DUCT ROUTED UP TO LEVEL ABOVE TO EXHAUST FAN ON ROOF. REFER TO M-207 FOR CONTINUATION.
7. ROUTE REFRIGERANT LINES UP TO THE FLOOR ABOVE. SEE M-102A FOR CONTINUATION. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
8. PROVIDE SENSORS IN PROTECTIVE ENCLOSURE.

1 1ST FLOOR MECHANICAL PLAN - AREA A NEW GYM FLOOR PLAN
SCALE: 1/8" = 1'-0"

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713-366-0808
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE IN ALL FORMS OF LEARNING

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

1ST FLOOR MECHANICAL PLAN - AREA A NEW GYM FLOOR PLAN

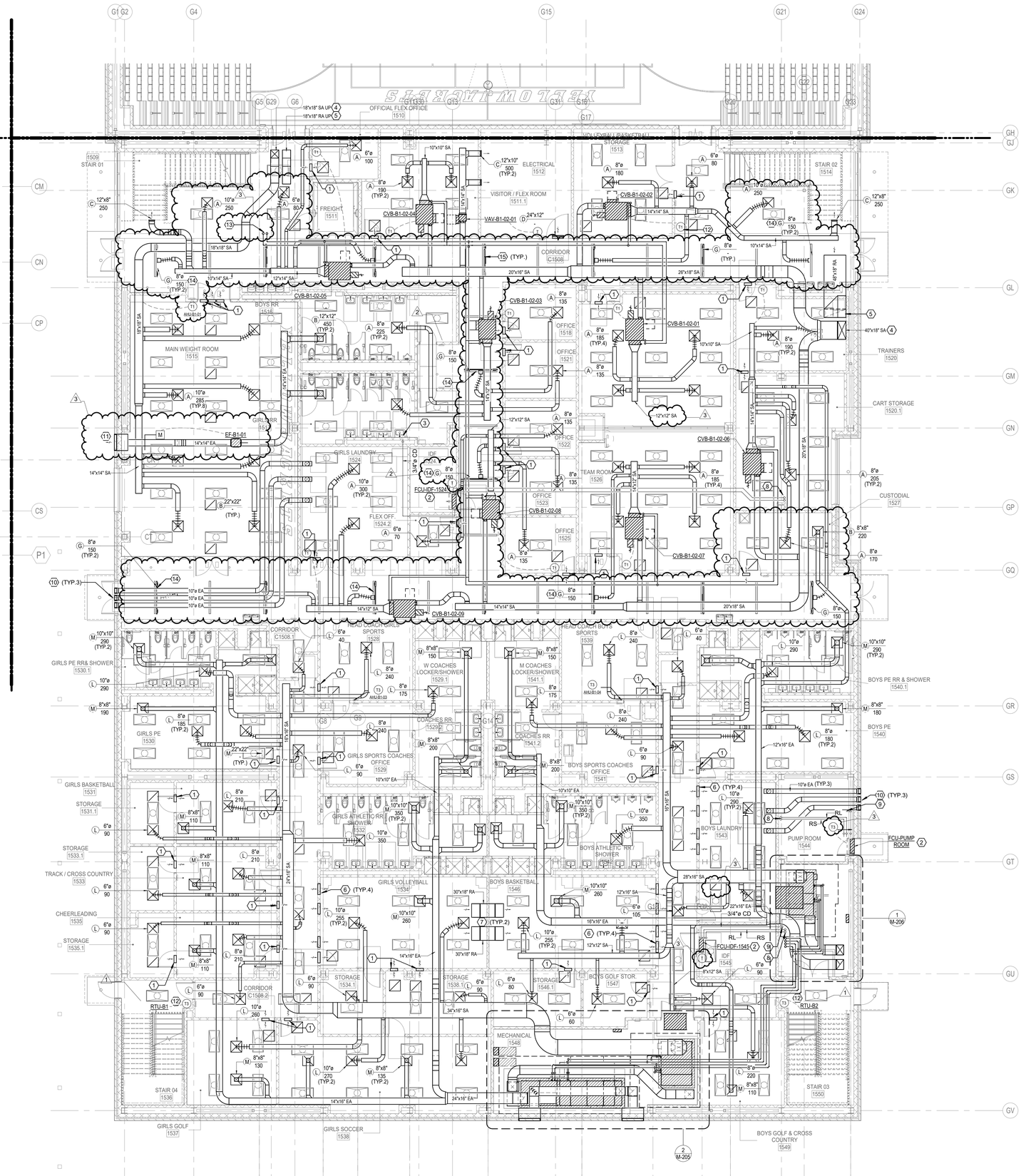
M-101A

Plot Stamp:
1/7/2026 8:35:30 PM

1ST FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN

M-101B

FOR BLUEBEAM LABELING/DOCR:



MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST LAVATORY TAIL-PIECE. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. SUPPLY AIR DUCT FROM THE LEVEL ABOVE. REFER TO M-102B FOR CONTINUATION.
5. RETURN AIR DUCT FROM THE LEVEL ABOVE. REFER TO M-102B FOR CONTINUATION.
6. PROVIDE 24"x16" RETURN AIR WALL OPENING ABOVE CEILING.
7. PROVIDE INTERNALLY LINED TRANSFER AIR BOOT OF TYPE AND SIZE INDICATED ON PLAN AT APPROXIMATE LOCATION SHOWN. DIMENSIONS SHOWN MUST BE INTERNAL DIMENSIONS.
8. ROUTE REFRIGERANT LINES UP TO THE FLOOR ABOVE. SEE M-102B FOR CONTINUATION. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
9. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
10. TERMINATE DRYER EXHAUST DUCT WITH LOUVERED SHUTTER.
11. PROVIDE AMCA 550 AND 540 RATED LOUVER WITH MINIMUM FREE AREA OF 1.8 SQ FT. COORDINATE EXACT DIMENSIONS, PLACEMENT, AND FINISH WITH ARCHITECT.
12. PROVIDE SENSORS IN PROTECTIVE ENCLOSURE.
13. HNS/R PIPING UP TO FLOOR ABOVE. SEE M-102B FOR CONTINUATION.
14. LINEAR SLOT TO BE CENTERED ALONG LIGHT AND INACTIVE PORTION TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING.
15. RETURN AIR LINEAR SLOT TO BE CENTERED ALONG LIGHT. INACTIVE PORTIONS TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR ACTIVE PORTION, PROVIDE WITH LIGHT SHIELD.

1 1ST FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN
SCALE: 1/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539

ISSUE FOR PROPOSAL

KEY PLAN — NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED PROFESSIONAL ENGINEER

December 5, 2025

LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

1ST FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN

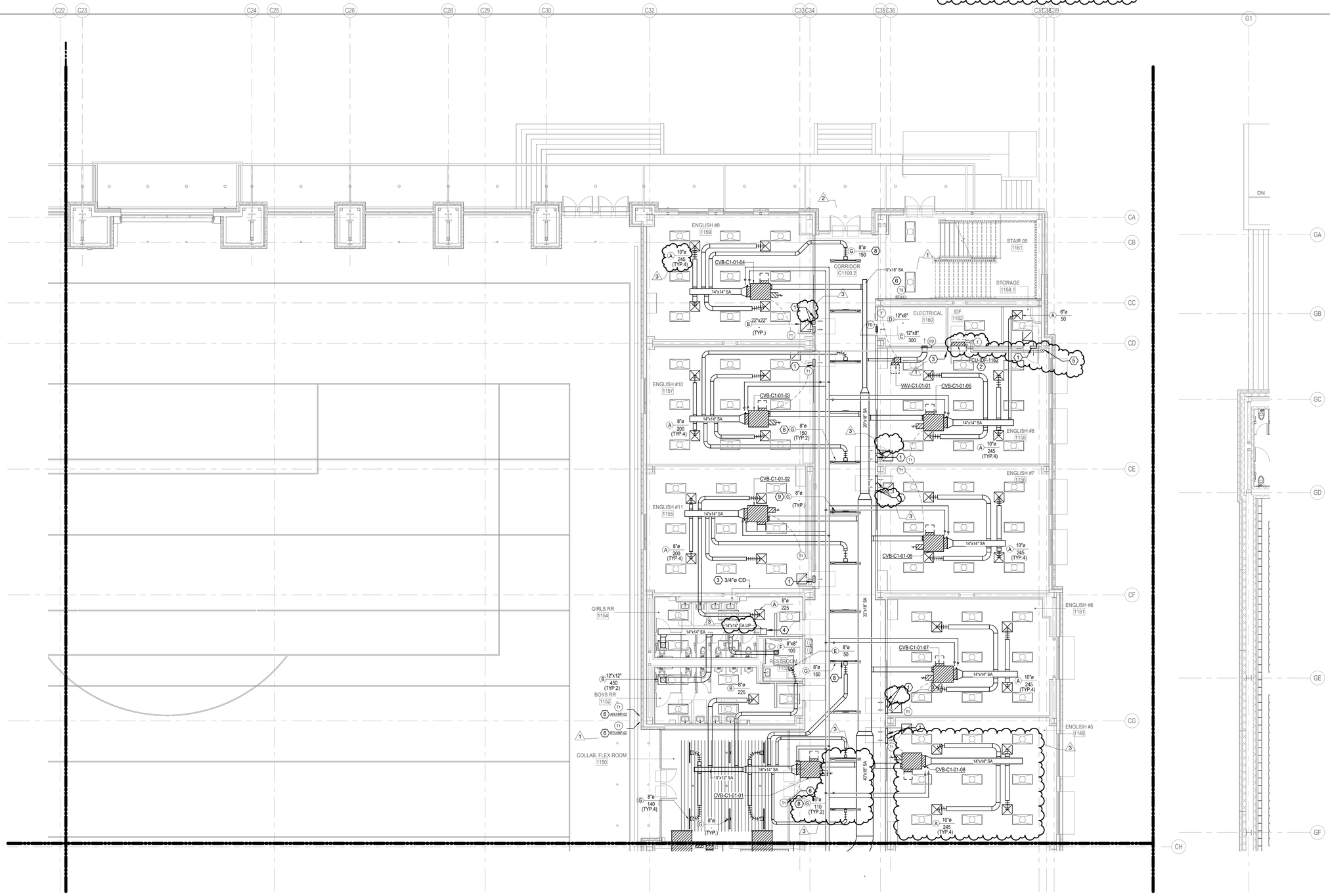
M-101B

Plot Stamp:
1/7/2026 8:35:45 PM

1ST FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
M-101C
FOR BLUEBEAM LABELING/OCR:

MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO THE NEAREST LAVATORY TAILPIECE. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. EXHAUST DUCT ROUTED UP TO FLOOR ABOVE. SEE M-102C FOR CONTINUATION.
5. ROUTE REFRIGERANT LINES UP TO THE FLOOR ABOVE. SEE M-102C & M-103C FOR CONTINUATION. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
6. PROVIDE SENSORS IN PROTECTIVE ENCLOSURE.
7. NOT USED.
8. LINEAR SLOT TO BE CENTERED ALONG LIGHT AND INACTIVE PORTION TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING.
9. RETURN AIR LINEAR SLOT TO BE CENTERED ALONG LIGHT. INACTIVE PORTIONS TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR ACTIVE PORTION, PROVIDE WITH LIGHT SHIELD.



1 1ST FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
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Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

Galena Park ISD
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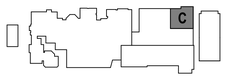

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
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PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

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1ST FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-101C

0"
1"

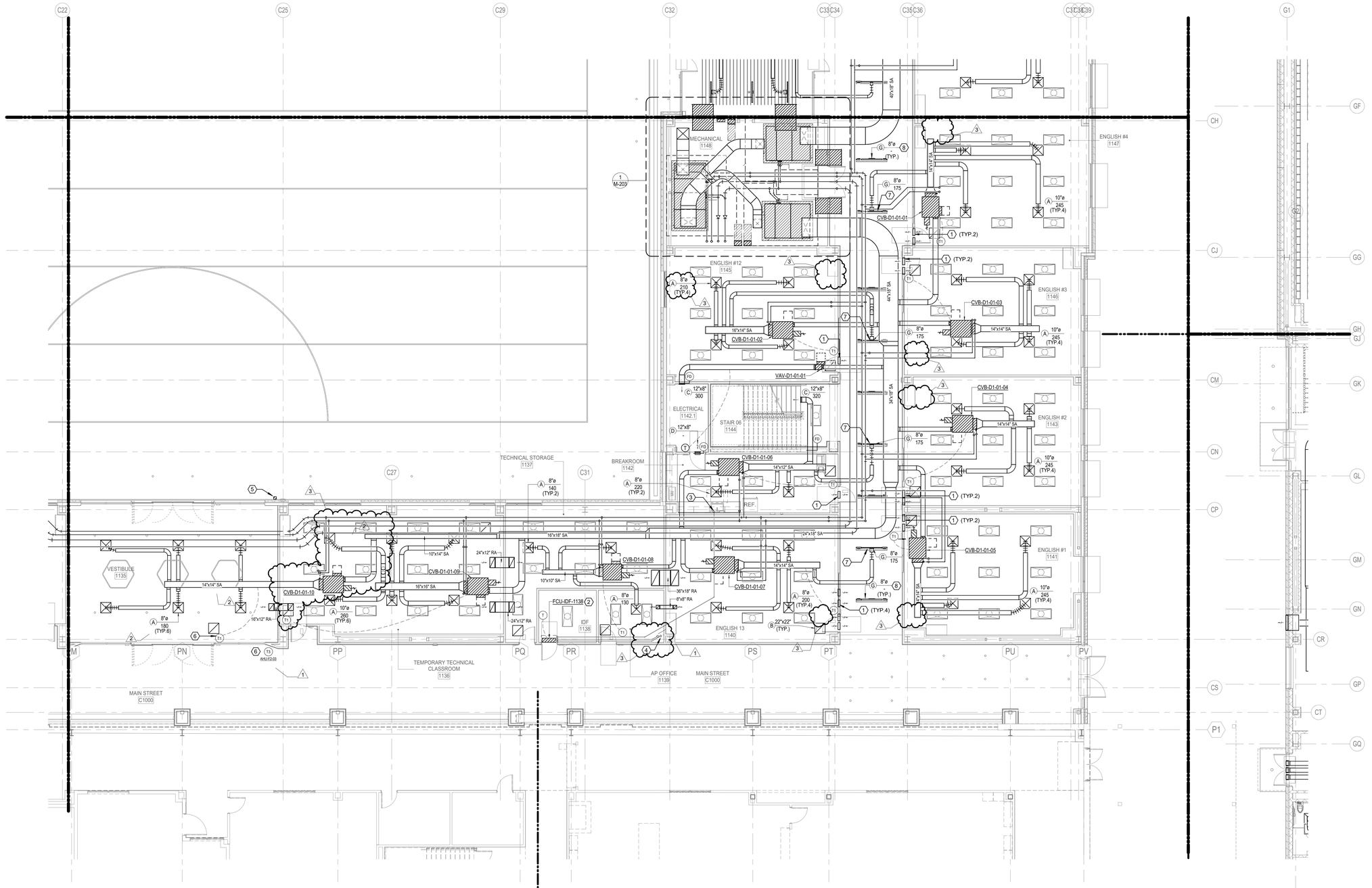
1ST FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY

M-101D PLAN

FOR BLUEBEAM LABELING/OCR:

MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST LAVATORY TAIL-PIECE. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. ROUTE REFRIGERANT LINES UP TO THE FLOOR ABOVE. SEE M-102D & M-103D FOR CONTINUATION. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
5. WALL MOUNTED CONTROLLER FOR DESTRATIFICATION FANS ON M-103G
6. PROVIDE SENSORS IN PROTECTIVE ENCLOSURE.
7. LINEAR SLOT TO BE CENTERED ALONG LIGHT AND INACTIVE PORTION TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING.
8. RETURN AIR LINEAR SLOT TO BE CENTERED ALONG LIGHT. INACTIVE PORTIONS TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR ACTIVE PORTION, PROVIDE WITH LIGHT SHIELD.



1 1ST FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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LEAF ENGINEERS
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CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

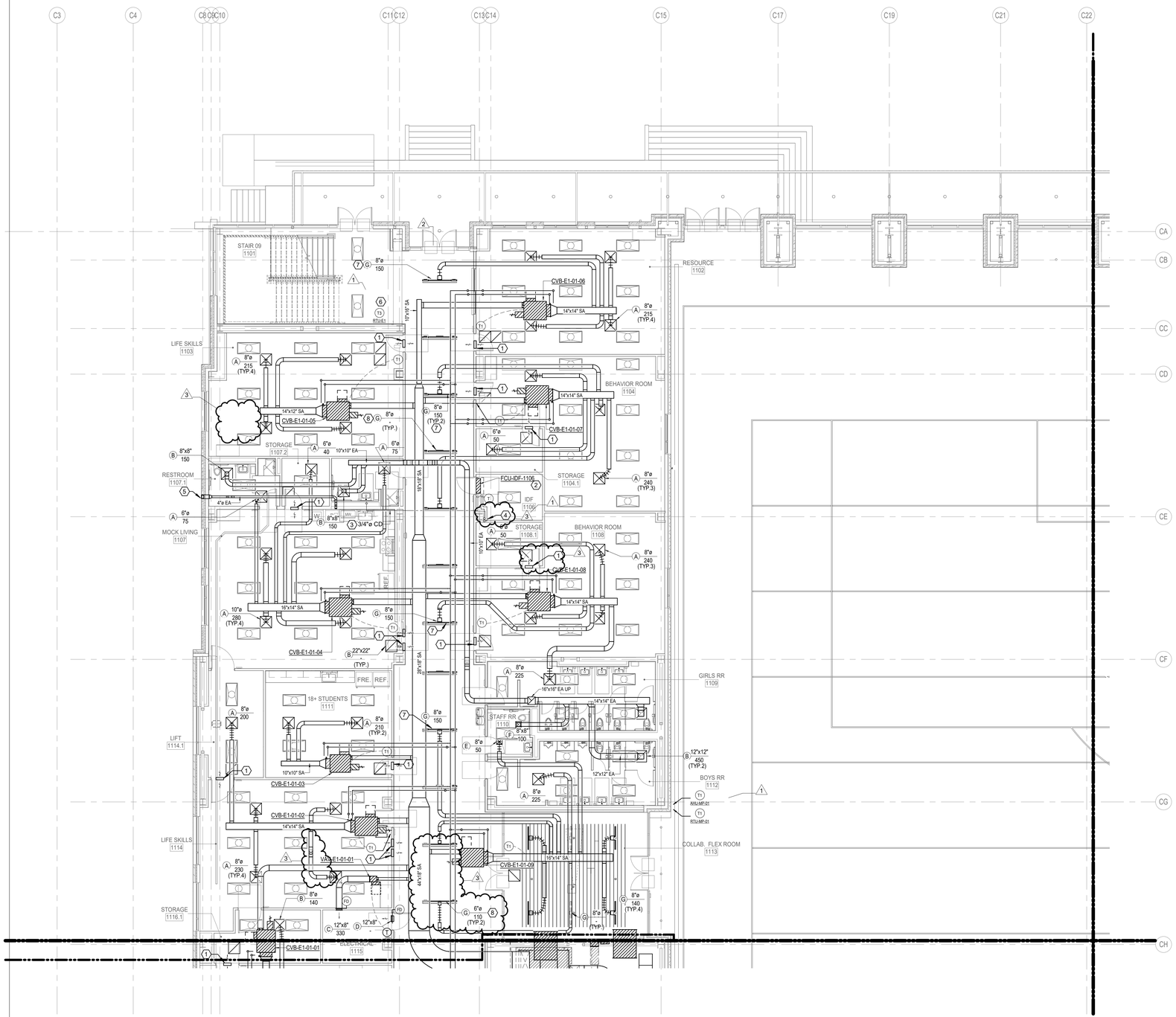
No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

1ST FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-101D

1ST FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY
FLOOR PLAN
M-101E
FOR BLUEBEAM LABELING/OCR:



1 1ST FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO THE NEAREST LAVATORY TAILPIECE. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. ROUTE REFRIGERANT LINES UP TO THE FLOOR ABOVE. SEE M-102E & M-103E FOR CONTINUATION. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
5. TERMINATE DRYER VENT WITH LOUVERED SHUTTER. SEE 2.M-603 FOR DETAILS.
6. PROVIDE SENSORS IN PROTECTIVE ENCLOSURE.
7. LINEAR SLOT TO BE CENTERED ALONG LIGHT AND INACTIVE PORTION TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING.
8. RETURN AIR LINEAR SLOT TO BE CENTERED ALONG LIGHT. INACTIVE PORTIONS TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR ACTIVE PORTION, PROVIDE WITH LIGHT SHIELD.

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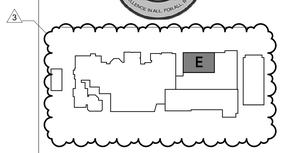

KEY PLAN
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GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

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1ST FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-101E

Plot Stamp:
1/7/2026 8:36:13 PM

0"
1"

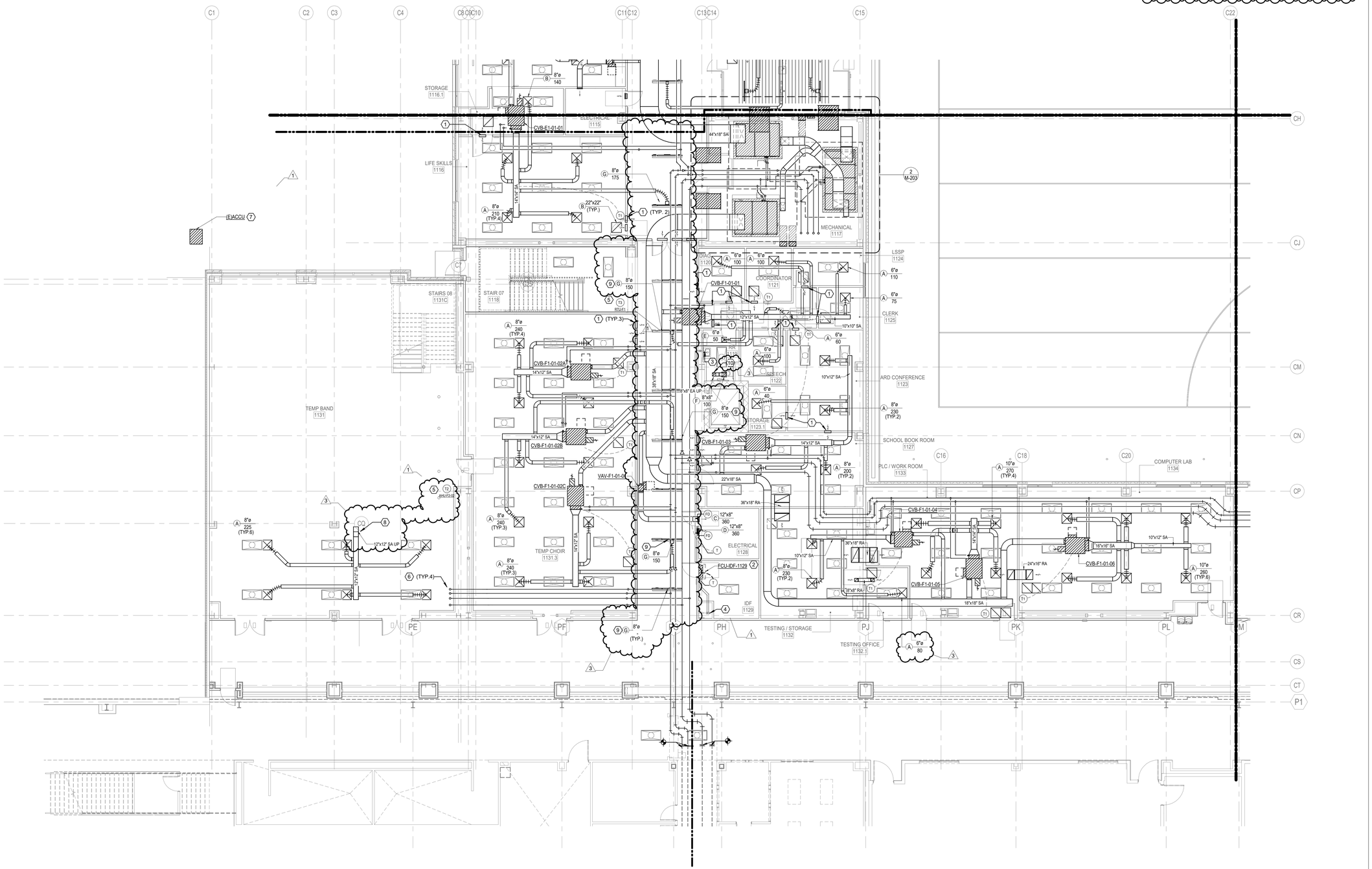
1ST FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY

M-101F PLAN

FOR BLUEBEAM LABELING/OCR:

MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST LAVATORY TAIL-PIECE. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. ROUTE REFRIGERANT LINES UP TO THE FLOOR ABOVE. SEE M-102F & M-103F FOR CONTINUATION. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
5. PROVIDE SENSORS IN PROTECTIVE ENCLOSURE.
6. CHS/R AND H/WS/R LINES TO FLOOR ABOVE. SEE 03.M-204 FOR CONTINUATION.
7. NEW GENERAL LOCATION OF RELOCATED CONDENSING UNIT. REFRIGERANT LINES TO BE EXTENDED TO NEW UNIT LOCATION SHOWN. CONTRACTOR TO CONSULT MANUFACTURER FOR ANY QUESTIONS REGARDING EXTENSION OF REFRIGERANT LINES. AFTER RELOCATION, CONTRACTOR TO ENSURE PROPER OPERATION OF UNIT. PROVIDE UNIT WITH NEW 12" HOUSEKEEPING PAD THAT EXTENDS AT MINIMUM 6" PAST ALL SIDES OF THE UNIT.
8. ROUTE SUPPLY AIR DUCT UP TO LEVEL ABOVE. SEE 3.M-204 FOR CONTINUATION.
9. LINEAR SLOT WITH INACTIVE PORTIONS BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR RETURN AIR LINEAR SLOTS, PROVIDE WITH LIGHT SHIELD.
10. ROUTE EXHAUST AIR DUCT UP TO LEVEL ABOVE. SEE M-102F FOR CONTINUATION.



1 1ST FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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CLIENT PROJECT NO: 240539
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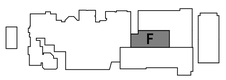

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
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LICENSED
PROFESSIONAL ENGINEER
December 5, 2025

LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
3	ADD 05	2026/01/08

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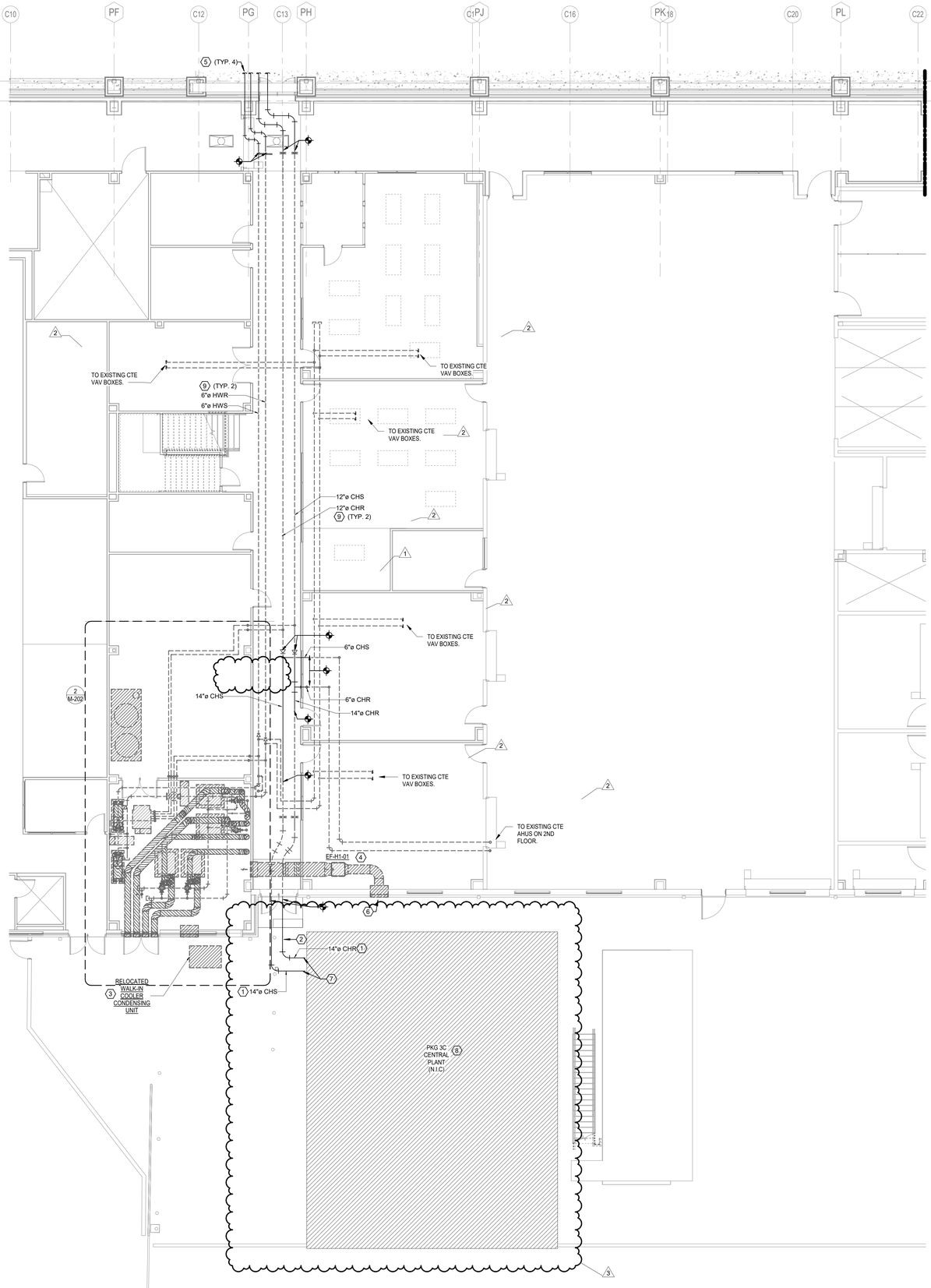
DRAWN BY: CT

1ST FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-101F

1ST FLOOR MECHANICAL PLAN - AREA H - CTE
M-101H
FOR BLUEBEAM LABELING/OCR:



1 1ST FLOOR MECHANICAL PLAN - AREA H - CTE
1/8" = 1'-0"

MECHANICAL KEYED NOTES:

1. 14" CHS/R LINES TO CONNECT CENTRAL PLANT TO EXISTING 14" CHS/R LINES ENTERING THE CTE CORRIDOR
2. REFER TO STRUCTURAL DRAWINGS FOR PIPING SUPPORT FOR 14" CHS/R.
3. WALK IN COOLER CONDENSING UNIT RELOCATED DURING THE SUMMER OF 2026 TO MAKE ROOM FOR PKG 3C CENTRAL PLANT. FOR DETAILS, SEE M-101HT.
4. SUSPENDED INLINE EXHAUST FAN INSTALLED DURING THE SUMMER OF 2026. SEE M-101HT FOR DETAILS.
5. SEE M-101F FOR PIPING CONTINUATION.
6. LOUVER INSTALLED DURING INSTALLATION OF BOILER SYSTEM. SEE M-101HT FOR DETAILS.
7. CONNECT NEW 14" CHS/R PIPING TO CONNECTIONS PROVIDED BY CENTRAL PLANT PKG 3C MANUFACTURER.
8. CONTRACTOR FOR PKG 3B TO PROVIDE BAS CONNECTION FROM PKG 3C CENTRAL PLANT TO EXISTING CTE BAS.
9. MAIN HYDRONIC LINES INSTALLED DURING THE SUMMER OF 2026. SEE M-101HT FOR DETAILS.

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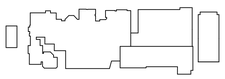

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
MITAL J. PATEL
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PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

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GALENA PARK ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

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1ST FLOOR MECHANICAL PLAN - AREA H - CTE

M-101H

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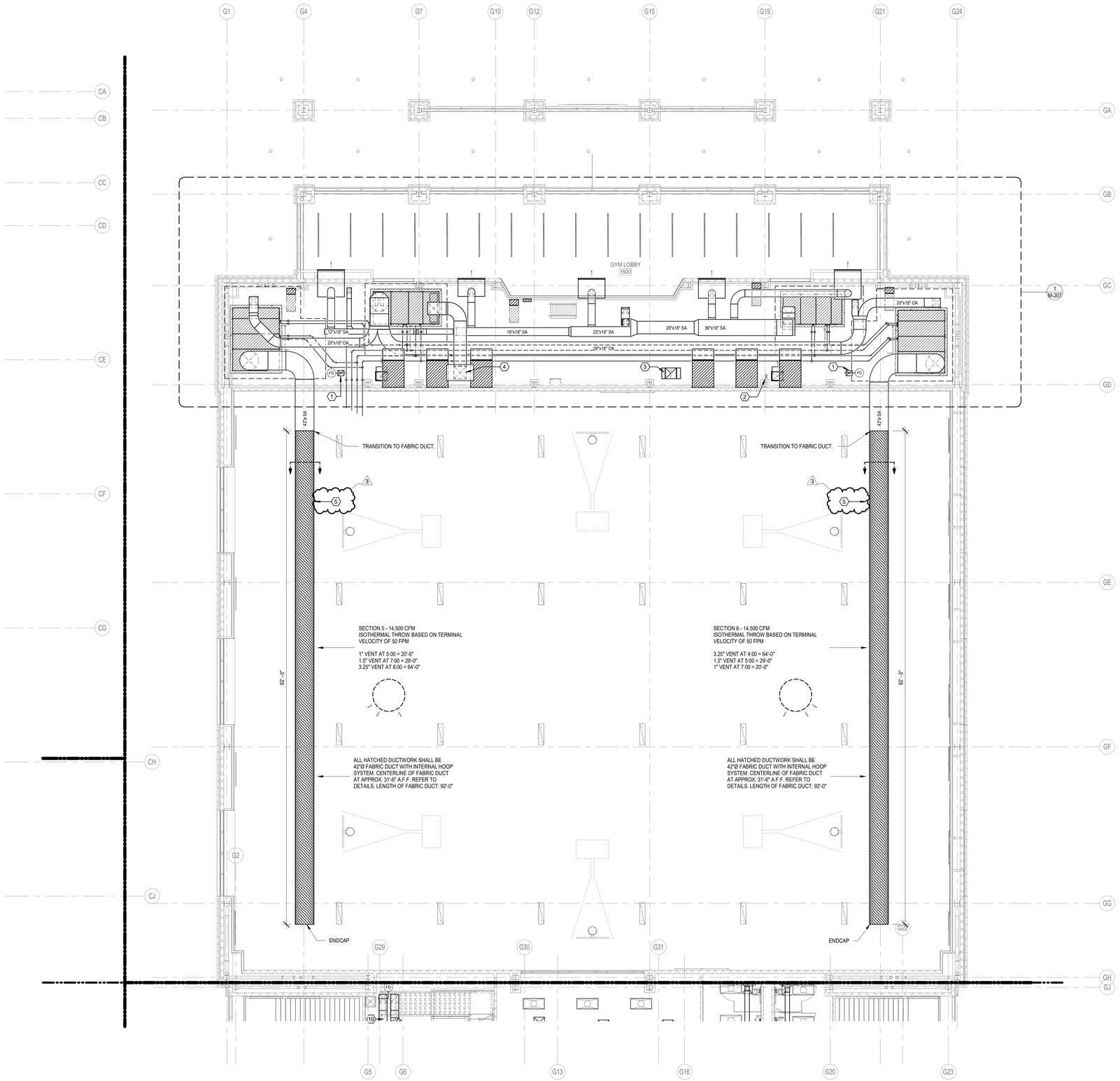
2ND FLOOR MECHANICAL PLAN - AREA A NEW GYM FLOOR PLAN
M-102A
FOR BLUEBEAM LABELING/OCR:



MECHANICAL KEYED NOTES:

1. EXHAUST AIR DUCT ROUTED UP THROUGH MECHANICAL ROOM FLOOR TO EXHAUST FAN LOCATED ON ROOF. PROVIDE FIRE DAMPER AT FLOOR PENETRATION , MOTORIZED DAMPER AT HOOD, AND TRANSITIONS AS REQUIRED.
2. REFRIGERANT LINES FROM THE FIRST LEVEL TO ROUTE UP THROUGH THE MEZZANINE TO THE ROOF. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
3. 24" x 24" RELIEF AIR DUCT UP TO RELIEF HOOD **RH-A1** ON ROOF, TRANSITION TO UNIT INLET.
4. OUTSIDE AIR DUCT ROUTED UP THROUGH ROOF TO INTAKE HOOD **IH-A1**, TRANSITION TO UNIT INLET.
5. ROUTE DUCTWORK IN-BETWEEN STRUCTURAL JOISTS. COORDINATE WITH STRUCTURAL DRAWINGS AND JOIST MANUFACTURER.

1 2ND FLOOR MECHANICAL PLAN - AREA A NEW GYM FLOOR PLAN
SCALE: 1/8" = 1'-0"

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CLIENT PROJECT NO: 240539

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Galena Park ISD

A

KEY PLAN
NORTH: PLAN TRUE

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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/01/08

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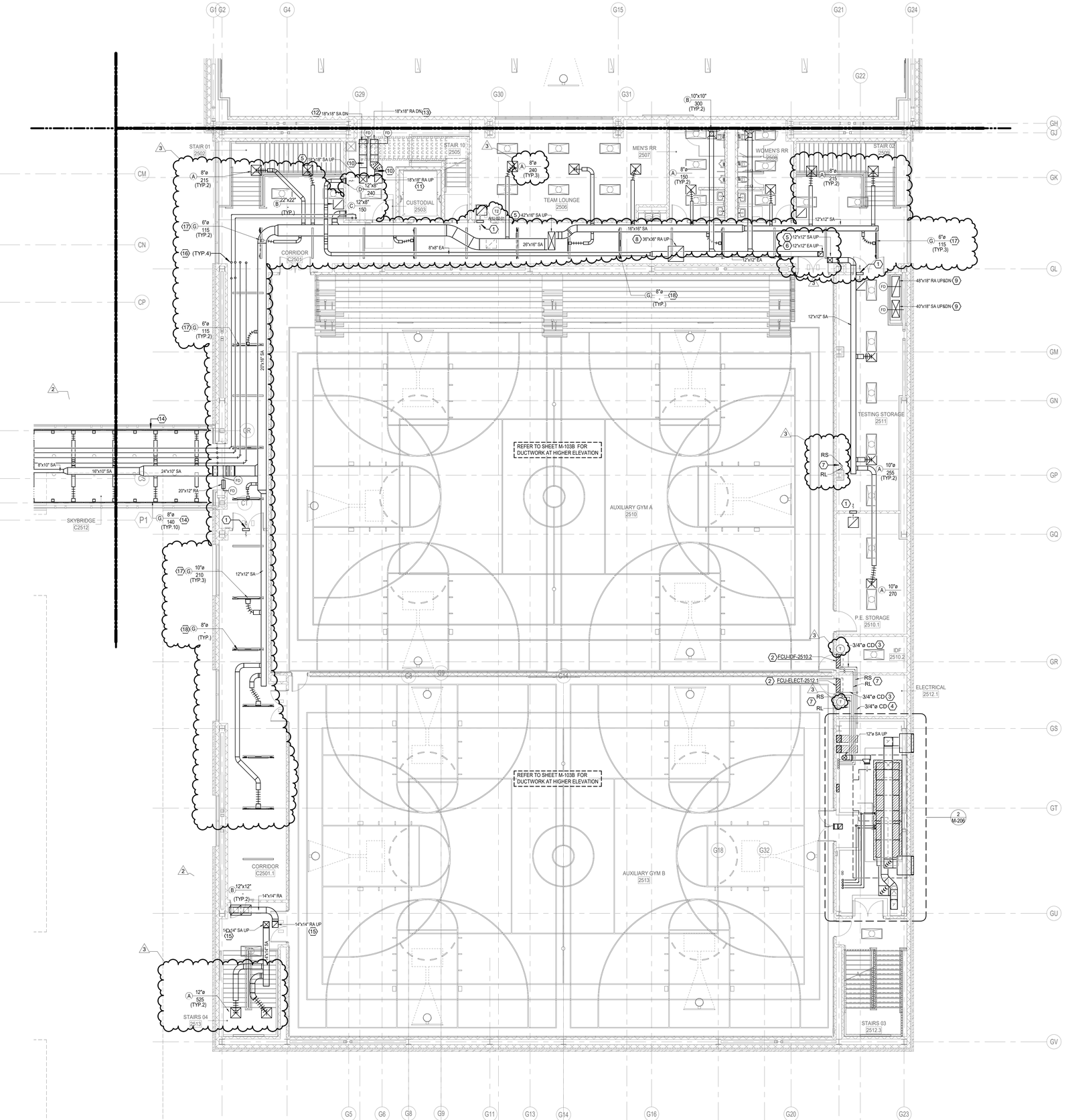
2ND FLOOR MECHANICAL PLAN - AREA A NEW GYM FLOOR PLAN

M-102A

Plot Stamp:
1/7/2026 8:36:24 PM

0"
1"

2ND FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN
M-102B
FOR BLUEBEAM LABELING/OCR:



MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE LINE TO MAIN 3/4" CONDENSATE LINE LEADING TO FLOOR DRAIN IN MECHANICAL ROOM.
4. ROUTE MAIN 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST FLOOR DRAIN IN MECHANICAL ROOM. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
5. SUPPLY DUCT FROM MEZZANINE ABOVE THRU SLAB. REFER TO SEE 2:M-208 FOR CONTINUATION.
6. EXHAUST DUCT FROM MEZZANINE ABOVE THRU SLAB. REFER TO SEE 2:M-208 FOR CONTINUATION.
7. ROUTE REFRIGERANT LINES UP TO THE ROOF. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
8. RETURN AIR OPENING TO SOUND TRAP ABOVE. SEE 2:M-208 FOR CONTINUATION.
9. SUPPLY AND RETURN DUCT FROM MEZZANINE ABOVE DOWN TO 1ST FLOOR. SEE M-101B FOR CONTINUATION. PROVIDE FIRE DAMPER AT SLAB PENETRATIONS
10. EXPOSED DUCTWORK SHALL BE DOUBLE WALL. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.
11. RETURN DUCT FROM MEZZANINE ABOVE THRU SLAB. REFER TO M-103B FOR CONTINUATION.
12. ROUTE SUPPLY DUCT DOWN THRU SLAB. PROVIDE FIRE DAMPER AT SLAB PENETRATION.
13. ROUTE RETURN DUCT DOWN THRU SLAB. PROVIDE FIRE DAMPER AT SLAB PENETRATION.
14. FOR SKYBRIDGE, PROVIDE A CONTINUOUS 36" LINEAR SLOT WITH UNUSED SECTIONS USED FOR RETURN AIR. FOR RETURN AIR LINEAR SLOTS, PROVIDE DIFFUSERS WITH BLANK OFF LIGHT SHIELD
15. ROUTE SUPPLY AND RETURN AIR DUCTWORK UP TO ROOF. SEE M-103B AND M-301 FOR CONTINUATION.
16. HYRDONIC PIPING UP TO MECHANICAL MEZZANINE ABOVE. SEE 2:M-207 FOR CONTINUATION.
17. LINEAR SLOT TO BE CENTERED ALONG LIGHT AND INACTIVE PORTION TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING.
18. RETURN AIR LINEAR SLOT TO BE CENTERED ALONG LIGHT. INACTIVE PORTIONS TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR ACTIVE PORTION, PROVIDE WITH LIGHT SHIELD

1 **2ND FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

Galena Park ISD

B

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

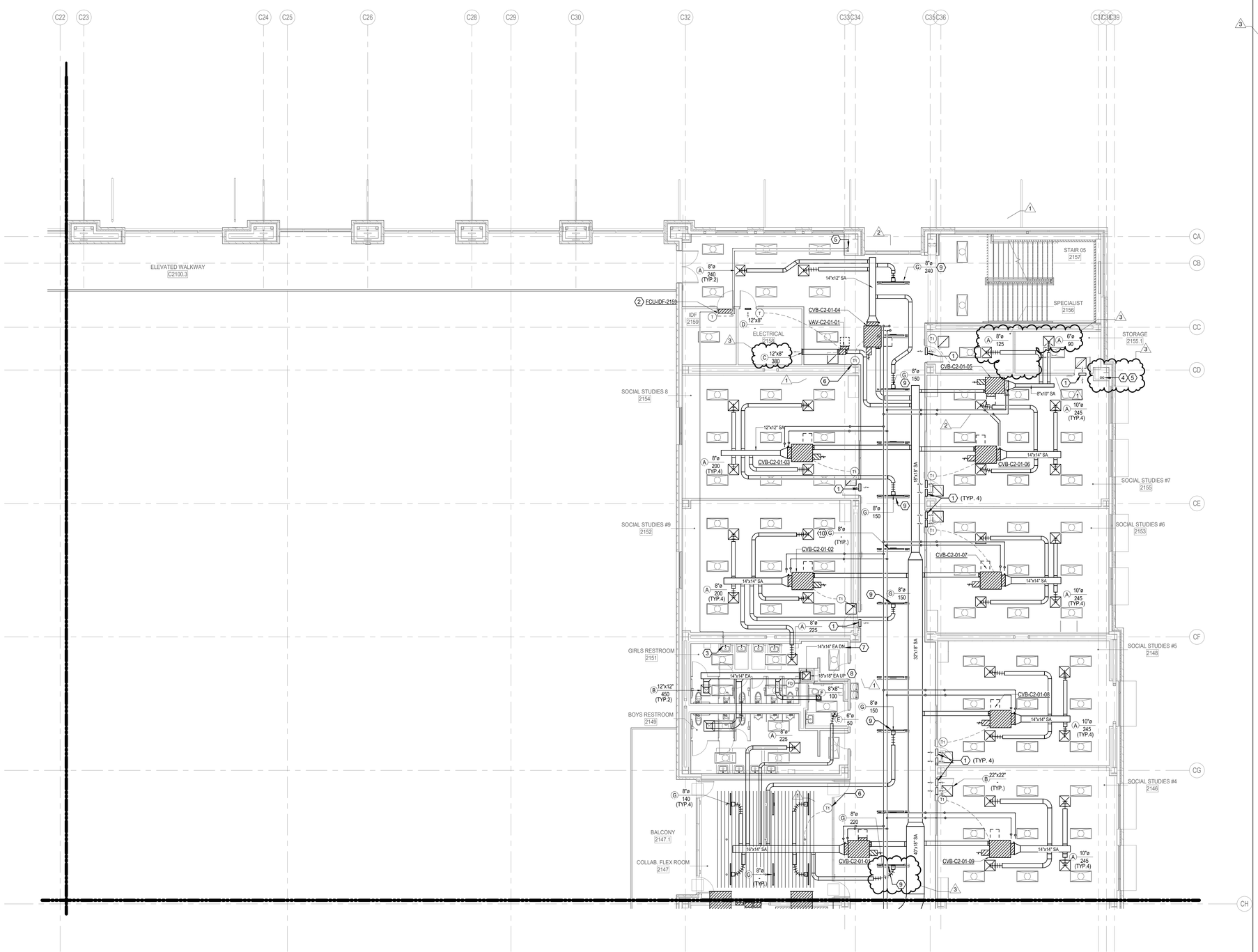
2ND FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN

M-102B

0"
1"

2ND FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
M-102C

FOR BLUEBEAM LABELING/OCR:



MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST LAVATORY TAILPIECE. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. REFRIGERANT PIPING ROUTING FROM THE LEVEL BELOW. ALL OUTDOOR AND EXPOSED REFRIGERANT PIPING SHALL BE WRAPPED WITH ALUMINUM JACKET.
5. ROUTE REFRIGERANT LINES UP TO THE ROOF. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
6. PROVIDE SENSORS IN PROTECTIVE ENCLOSURE.
7. EXHAUST DUCT ROUTED DOWN TO FLOOR BELOW. SEE M-101C FOR CONTINUATION.
8. EXHAUST DUCT ROUTED UP TO FLOOR ABOVE. SEE M-103C FOR CONTINUATION.
9. LINEAR SLOT TO BE CENTERED ALONG LIGHT AND INACTIVE PORTION TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING.
10. RETURN AIR LINEAR SLOT TO BE CENTERED ALONG LIGHT. INACTIVE PORTIONS TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR ACTIVE PORTION, PROVIDE WITH LIGHT SHIELD.

1 2ND FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
1/7/2026 8:36:38 PM

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539

ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE WALL FOR WALL

C

KEY PLAN
NORTH: PLAN ≈ TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025

LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

2ND FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-102C

0"
1"

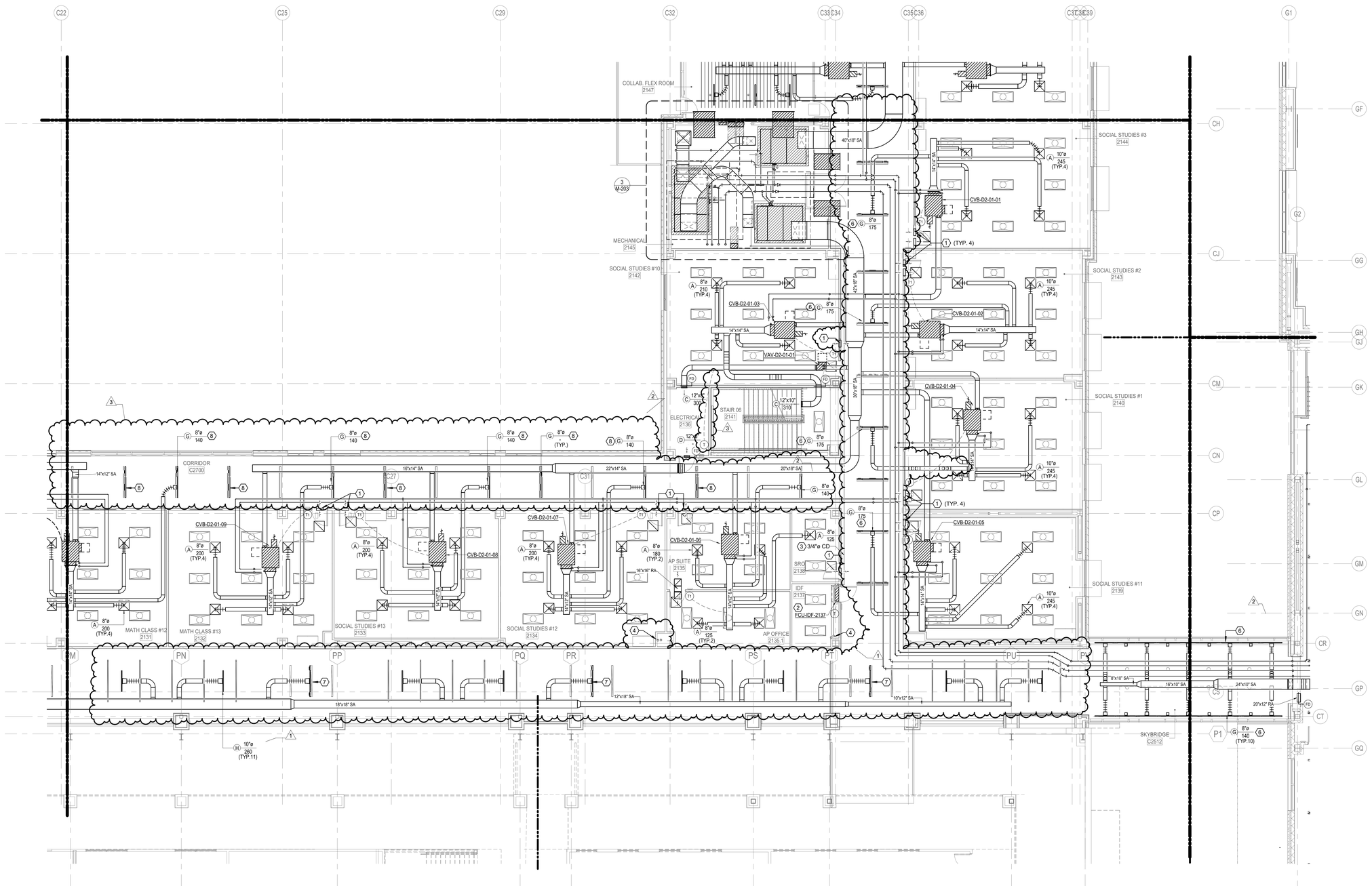
2ND FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY

M-102B PLAN

FOR BLUEBEAM LABELING/OCR:

MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. ROUTE REFRIGERANT LINES UP TO THE ROOF. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
5. FOR SKYBRIDGE, PROVIDE A CONTINUOUS 36" LINEAR SLOT WITH UNUSED SECTIONS USED FOR RETURN AIR. FOR RETURN AIR LINEAR SLOTS, PROVIDE DIFFUSERS WITH BLANK OFF LIGHT SHIELD.
6. LINEAR SLOT TO BE CENTERED ALONG LIGHT AND INACTIVE PORTION TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING.
7. RETURN AIR LINEAR SLOT TO BE CENTERED ALONG LIGHT. INACTIVE PORTIONS TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR ACTIVE PORTION, PROVIDE WITH LIGHT SHIELD.
8. LINEAR SLOT WITH INACTIVE PORTION BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR RETURN AIR SLOTS, PROVIDE WITH LIGHT SHIELD.



1 2ND FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
1/7/2026 8:36:43 PM

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

2ND FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

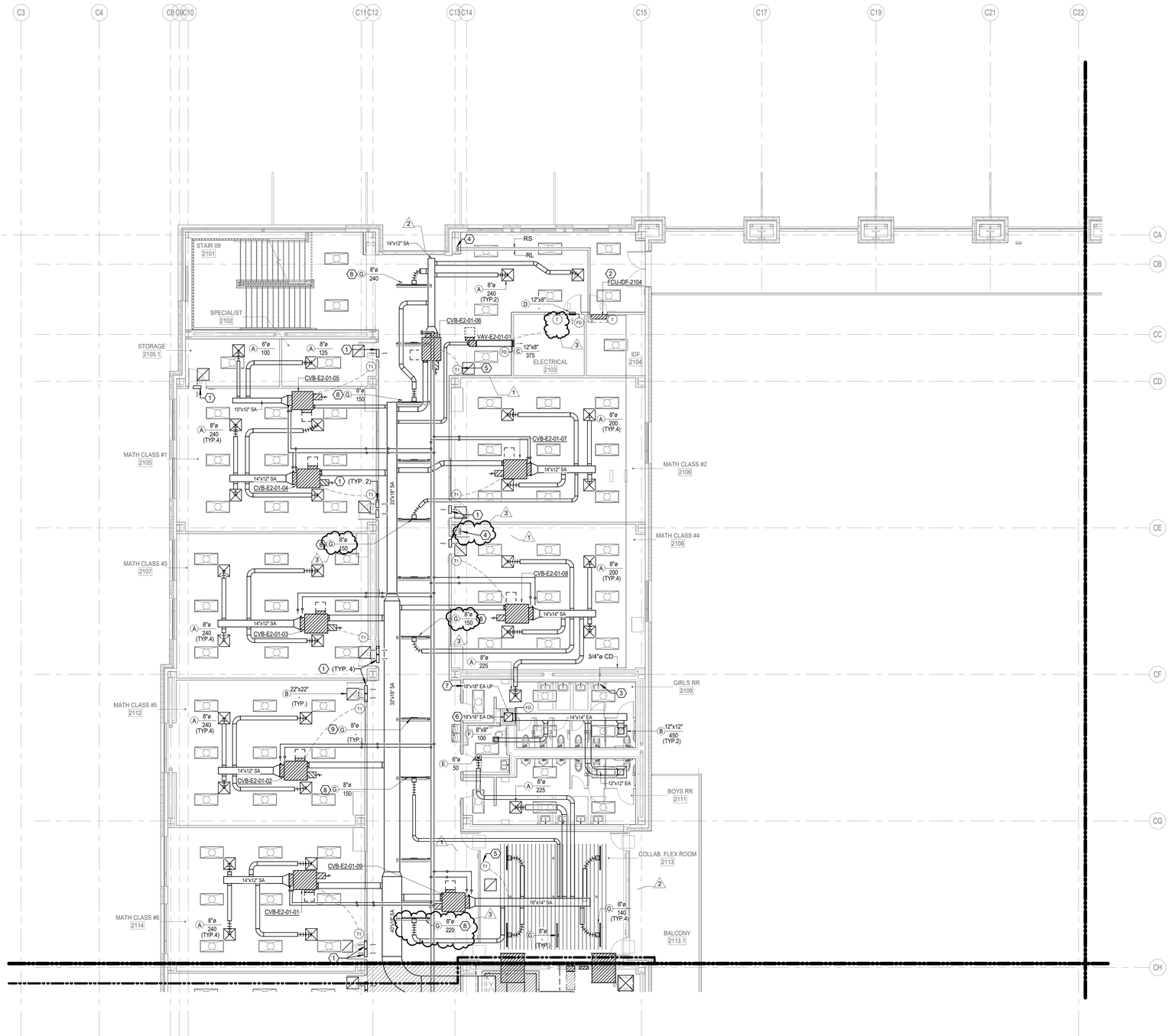
M-102D

0"
1"

2ND FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY

M-102E PLAN

FOR BLUEBEAM LABELING/OCR:



MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST LAVATORY TAILPIECE. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. ROUTE REFRIGERANT LINES UP TO THE ROOF. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
5. PROVIDE SENSORS IN PROTECTIVE ENCLOSURE.
6. EXHAUST DUCT ROUTED DOWN TO FLOOR BELOW. SEE M-101E FOR CONTINUATION.
7. EXHAUST DUCT ROUTED UP TO FLOOR ABOVE. SEE M-103E FOR CONTINUATION.
8. LINEAR SLOT TO BE CENTERED ALONG LIGHT AND INACTIVE PORTION TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING.
9. RETURN AIR LINEAR SLOT TO BE CENTERED ALONG LIGHT. INACTIVE PORTIONS TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR ACTIVE PORTION, PROVIDE WITH LIGHT SHIELD.

1 2ND FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

Galena Park ISD

E

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

2ND FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-102E

0"
1"

2ND FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY

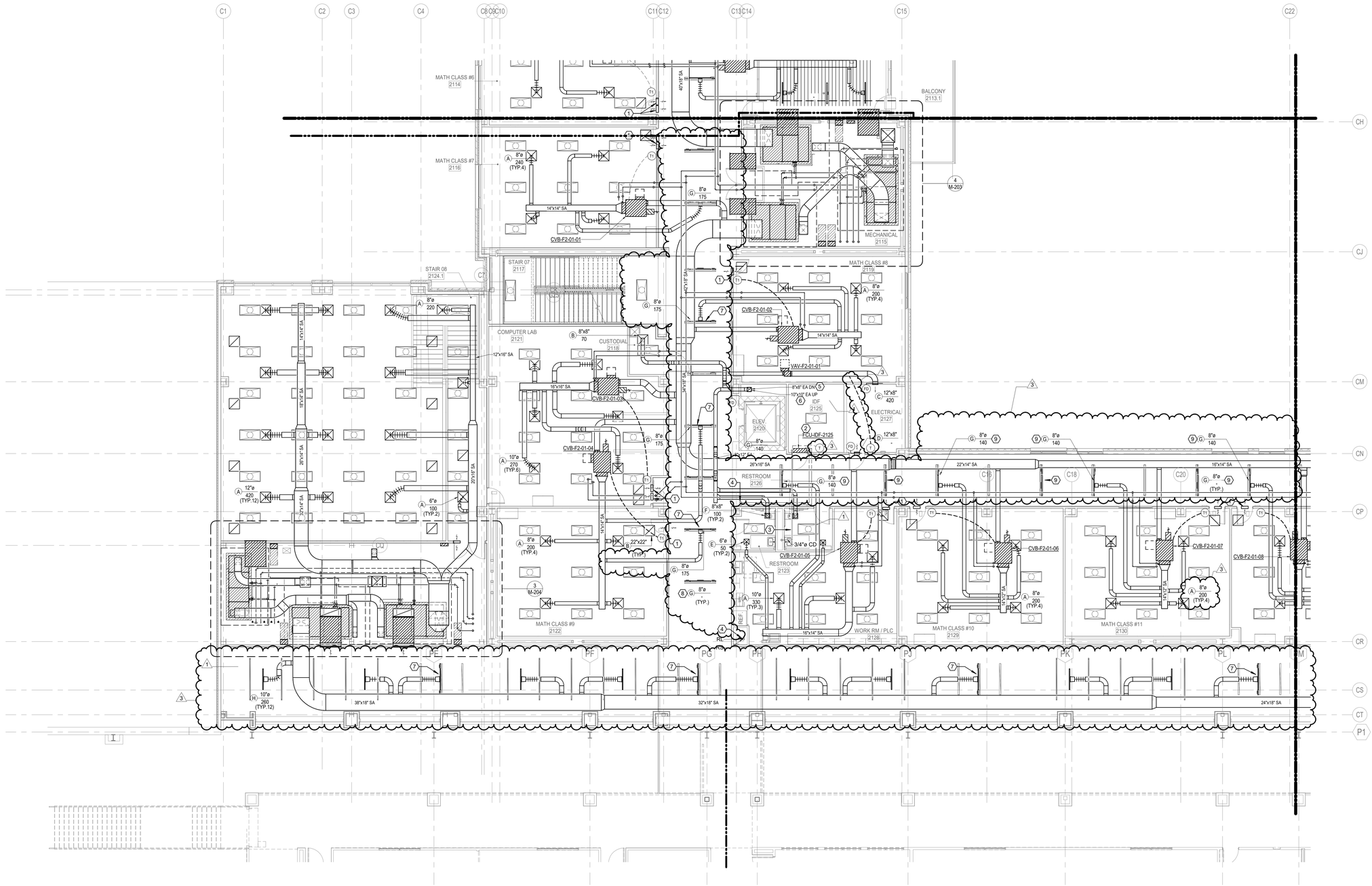
FLOOR PLAN

M-102F

FOR BLUEBEAM LABELING/OCR:

MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST LAVATORY TAILPIECE. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. ROUTE REFRIGERANT LINES UP TO THE ROOF. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
5. EXHAUST DUCT ROUTED DOWN TO FLOOR BELOW. SEE M-101F FOR CONTINUATION.
6. EXHAUST DUCT ROUTED UP TO FLOOR ABOVE. SEE M-103F FOR CONTINUATION.
7. LINEAR SLOT TO BE CENTERED ALONG LIGHT AND INACTIVE PORTION TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING.
8. RETURN AIR LINEAR SLOT TO BE CENTERED ALONG LIGHT. INACTIVE PORTIONS TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR ACTIVE PORTION, PROVIDE WITH LIGHT SHIELD.
9. LINEAR SLOT WITH INACTIVE PORTION BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR RETURN AIR SLOTS, PROVIDE WITH LIGHT SHIELD.



1 **2ND FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
1/7/2026 8:36:56 PM

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025

LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

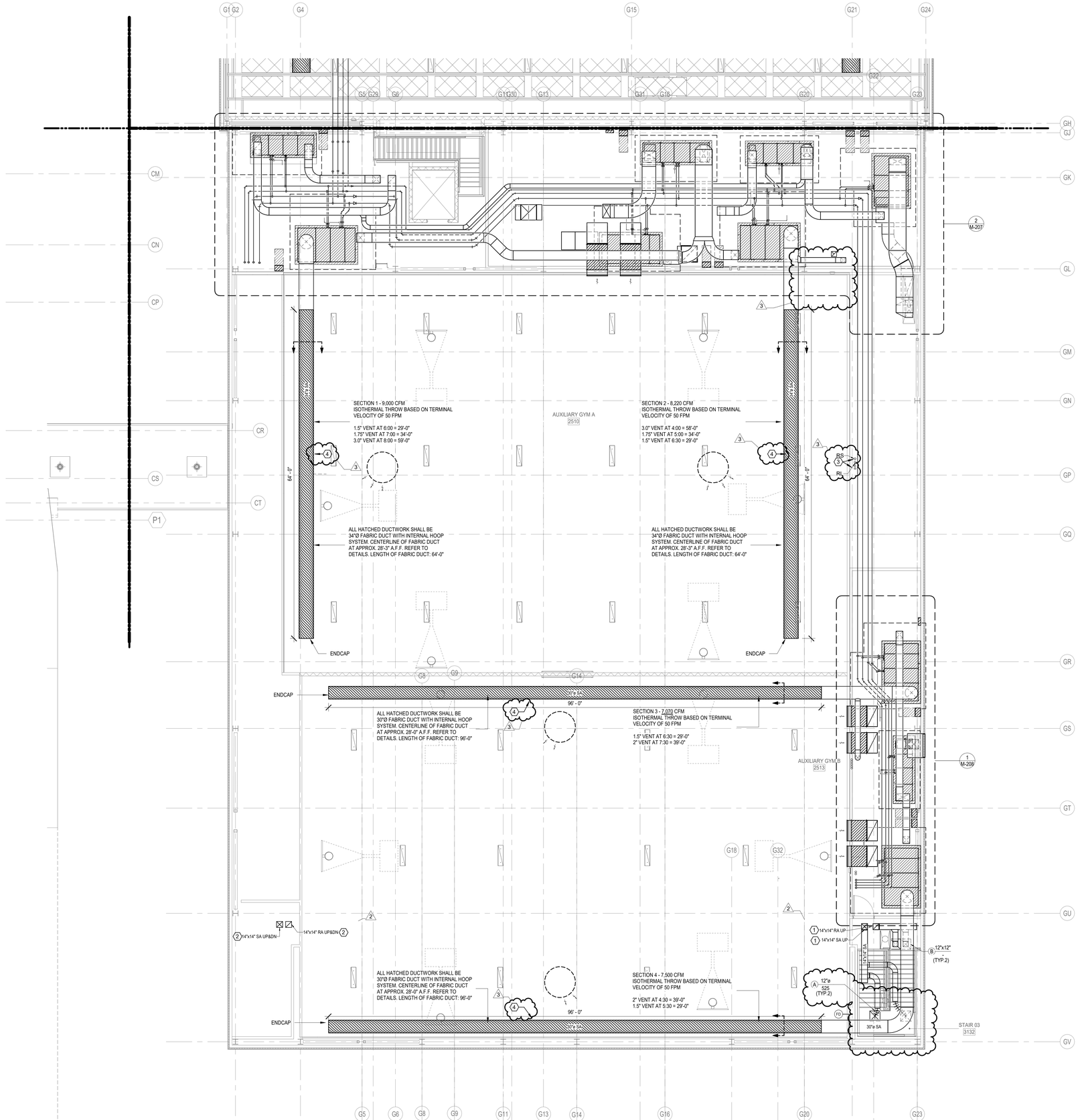
No.	Description	Date
1	ADD 01	2025/12/10
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

2ND FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-102F

3RD FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN
M-103B
FOR BLUEBEAM LABELING/OCR:



MECHANICAL KEYED NOTES:

1. SUPPLY AND RETURN DUCTWORK UP TO ROOF. SEE M-301 FOR CONTINUATION.
2. SUPPLY AND RETURN DUCTWORK FROM ROOF TO 2ND LEVEL SEE M-301 AND M-102B FOR CONTINUATION.
3. ROUTE REFRIGERANT LINES FROM LEVEL BELOW UP TO THE ROOF. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
4. ROUTE DUCTWORK IN-BETWEEN STRUCTURAL JOISTS; COORDINATE WITH STRUCTURAL DRAWINGS AND JOIST MANUFACTURER.

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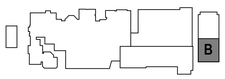
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

3RD FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN

M-103B

1 3RD FLOOR MECHANICAL PLAN - AREA B NEW GYM FLOOR PLAN TEST
SCALE: 1/8" = 1'-0"

Plot Stamp:
1/7/2026 8:37:00 PM

3RD FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY

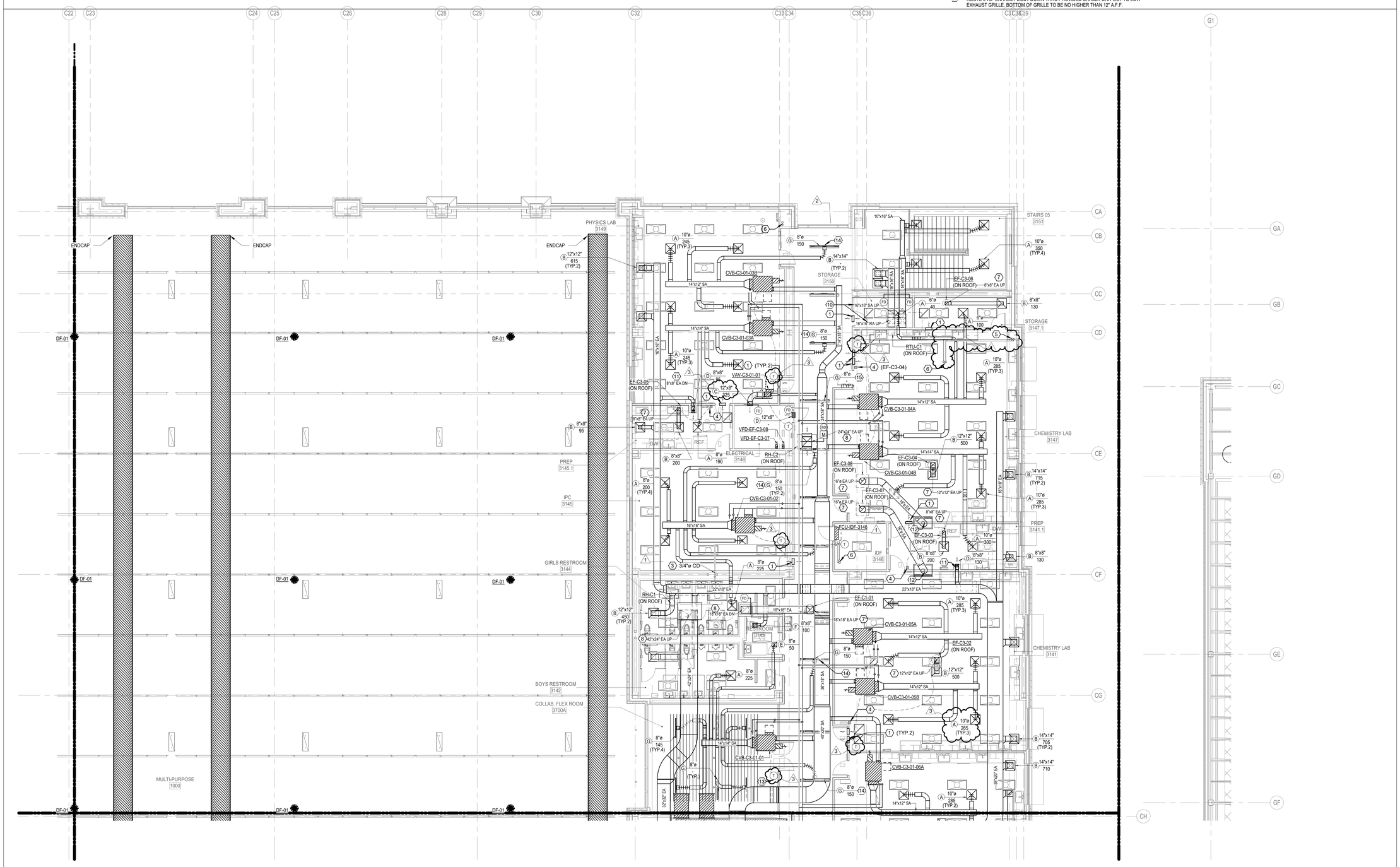
FLOOR PLAN
M-103C

FOR BLUEBEAM LABELING/OCR:

0"
1"

MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. PROVIDE PURGE EXHAUST FAN WITH PURGE MODE BUTTON. REFER TO SEQUENCES OF OPERATIONS.
5. REFRIGERANT PIPING ROUTING FROM LEVEL BELOW. ALL OUTDOOR AND EXPOSED REFRIGERANT PIPING SHALL BE WRAPPED WITH ALUMINUM JACKET.
6. ROUTE REFRIGERANT LINES UP TO THE ROOF. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
7. ROUTE EXHAUST DUCT UP TO EXHAUST FAN ON ROOF. TRANSITION TO FAN INLET.
8. EXHAUST DUCT UP TO RELIEF HOOD ON ROOF. TRANSITION TO UNIT INLET.
9. EXHAUST DUCT ROUTED DOWN TO FLOOR BELOW. SEE M-102C FOR CONTINUATION.
10. RETURN AND SUPPLY DUCTWORK UP TO RTU. PROVIDE TRANSITIONS TO UNIT INLET.
11. ROUTE 8"X8" EXHAUST DUCT DOWN THRU PROVIDED CHASE/FURR-OUT TO LOW EXHAUST GRILLE. BOTTOM OF GRILLE TO BE NO HIGHER THAN 12" A.F.F.
12. EXHAUST DUCT DOWN TO FUME HOOD INLET. PROVIDE TRANSITIONS AS REQUIRED TO MAKE CONNECTION.
13. PROVIDE SENSORS IN PROTECTIVE ENCLOSURE.
14. LINEAR SLOT TO BE CENTERED ALONG LIGHT AND INACTIVE PORTION TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING.
15. RETURN AIR LINEAR SLOT TO BE CENTERED ALONG LIGHT. INACTIVE PORTIONS TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR ACTIVE PORTION, PROVIDE WITH LIGHT SHIELD.



1 3RD FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
1/7/2026 8:37:10 PM

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

Galena Park ISD
GP
WHERE EVERY CHILD IS KNOWN, VALUED AND CHALLENGED

C

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

3RD FLOOR MECHANICAL PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-103C

3RD FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY

FLOOR PLAN

M-103D

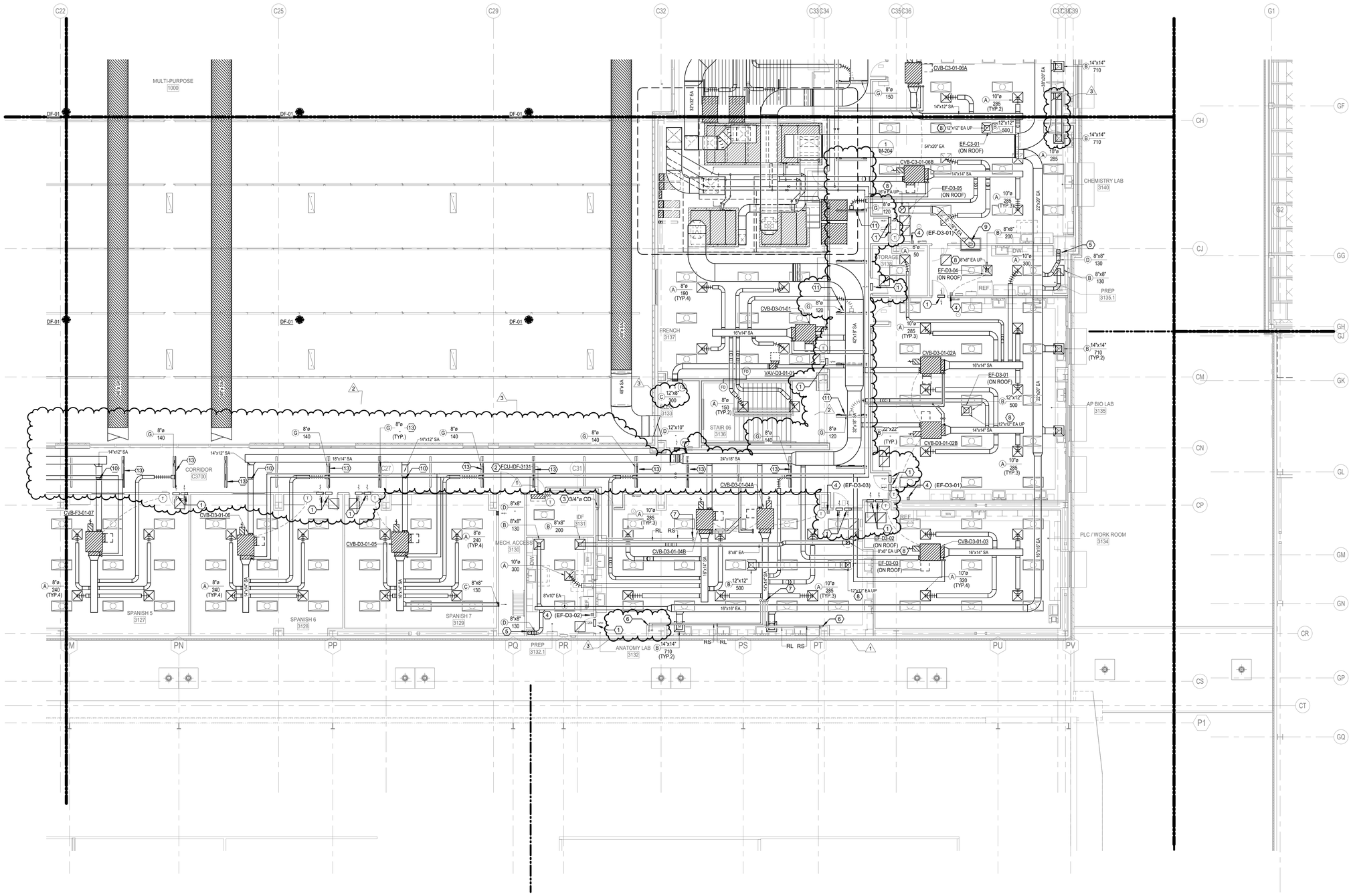
FOR BLUEBEAM LABELING/DOCR:

0"

1"

MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. PROVIDE PURGE EXHAUST FAN WITH PURGE MODE BUTTON. REFER TO SEQUENCES OF OPERATIONS.
5. ROUTE 8"X8" EXHAUST DUCT DOWN THRU PROVIDED CHASE/FURR-OUT TO LOW EXHAUST GRILLE. BOTTOM OF GRILLE TO BE NO HIGHER THAN 12" A.F.F.
6. REFRIGERANT PIPING ROUTING FROM LEVEL BELOW. ALL OUTDOOR AND EXPOSED REFRIGERANT PIPING SHALL BE WRAPPED WITH ALUMINUM JACKET.
7. ROUTE REFRIGERANT LINES UP TO THE ROOF. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
8. ROUTE EXHAUST DUCT UP TO EXHAUST FAN ON ROOF. TRANSITION TO FAN INLET.
9. EXHAUST DUCT DOWN TO FUME HOOD INLET. PROVIDE TRANSITIONS AS REQUIRED TO MAKE CONNECTION.
10. AFTER RECTANGULAR CVB TAP, TRANSITION SUPPLY AIR DUCTWORK AS SHOWN ON DETAIL 04/601.
11. LINEAR SLOT TO BE CENTERED ALONG LIGHT AND INACTIVE PORTION TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING.
12. RETURN AIR LINEAR SLOT TO BE CENTERED ALONG LIGHT. INACTIVE PORTIONS TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR ACTIVE PORTION, PROVIDE WITH LIGHT SHIELD.
13. LINEAR SLOT WITH INACTIVE PORTION BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR RETURN AIR SLOTS, PROVIDE WITH LIGHT SHIELD.



1 3RD FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

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

Plot Stamp:
1/7/2026 8:37:14 PM

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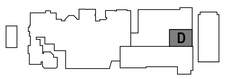
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN

NORTH: PLAN = TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025

LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
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December 5, 2025	240539

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CHECKED BY: MP

DRAWN BY: CT

3RD FLOOR MECHANICAL PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-103D

3RD FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY

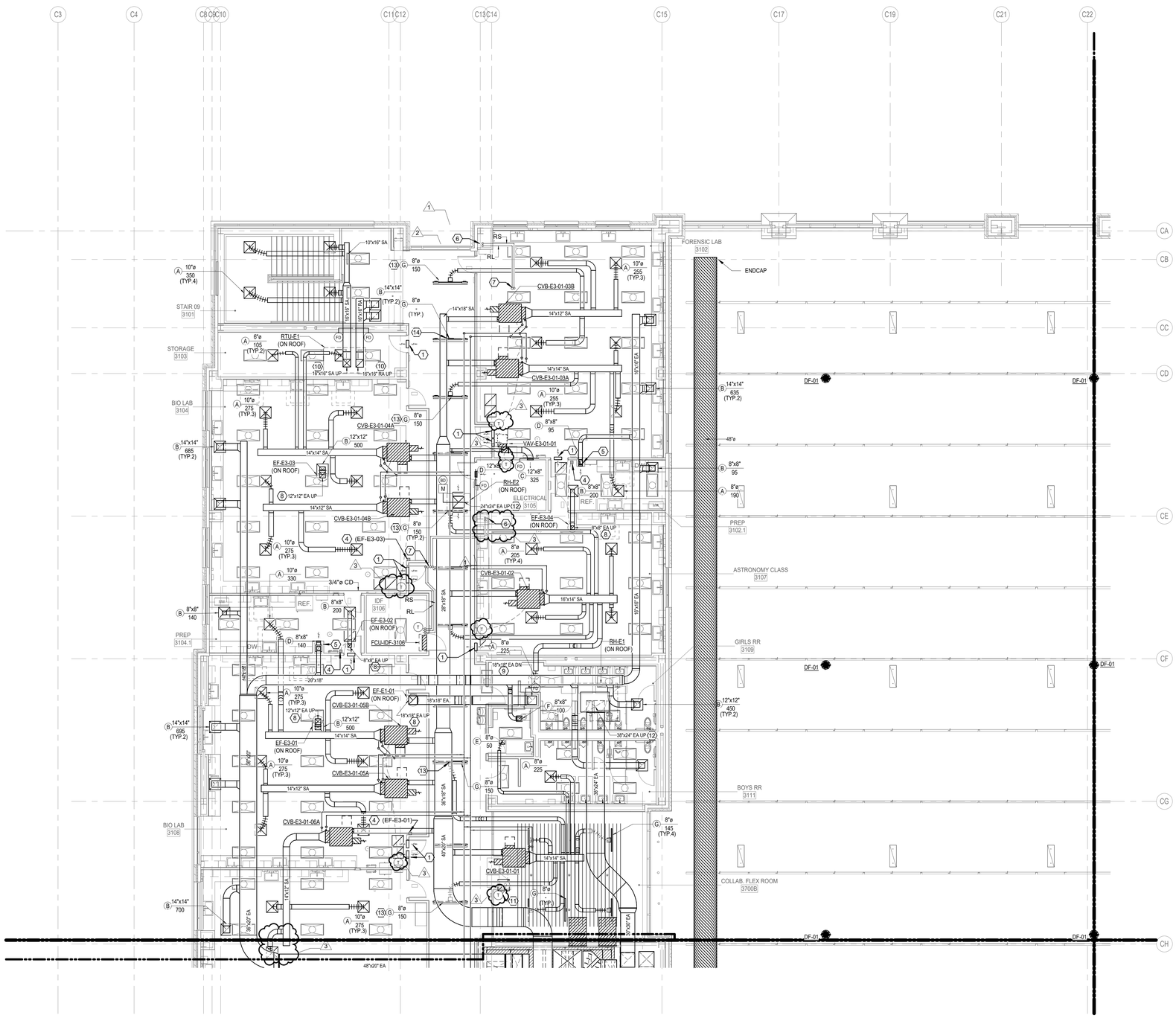
FLOOR PLAN

M-103E

FOR BLUEBEAM LABELING/OCR:

0"

1"



1 3RD FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

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

MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. PROVIDE PURGE EXHAUST FAN WITH PURGE MODE BUTTON. REFER TO SEQUENCES OF OPERATIONS.
5. ROUTE 8"x8" EXHAUST DUCT DOWN THRU PROVIDED CHASE/FURR-OUT TO LOW EXHAUST GRILLE. BOTTOM OF GRILLE TO BE NO HIGHER THAN 12" A.F.F.
6. REFRIGERANT PIPING ROUTING FROM THE LEVEL BELOW. ALL OUTDOOR AND EXPOSED REFRIGERANT PIPING SHALL BE WRAPPED WITH ALUMINUM JACKET.
7. ROUTE REFRIGERANT LINES UP TO THE ROOF. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
8. ROUTE EXHAUST DUCT UP TO EXHAUST FAN ON ROOF. TRANSITION TO FAN INLET.
9. EXHAUST DUCT ROUTED DOWN TO FLOOR BELOW. SEE M-102C FOR CONTINUATION.
10. RETURN AND SUPPLY DUCTWORK UP TO RTU. PROVIDE TRANSITIONS TO UNIT INLET.
11. PROVIDE SENSORS IN PROTECTIVE ENCLOSURE.
12. EXHAUST DUCT UP TO RELIEF HOOD ON ROOF. TRANSITION TO UNIT INLET.
13. LINEAR SLOT TO BE CENTERED ALONG LIGHT AND INACTIVE PORTION TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING.
14. RETURN AIR LINEAR SLOT TO BE CENTERED ALONG LIGHT. INACTIVE PORTIONS TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR ACTIVE PORTION, PROVIDE WITH LIGHT SHIELD.

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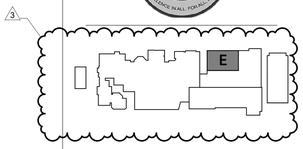
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539

ISSUE FOR PROPOSAL



KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED PROFESSIONAL ENGINEER

December 5, 2025

LEAF ENGINEERS
F-16672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: MP

DRAWN BY: CT

3RD FLOOR MECHANICAL PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-103E

Plot Stamp:
1/7/2026 8:37:19 PM

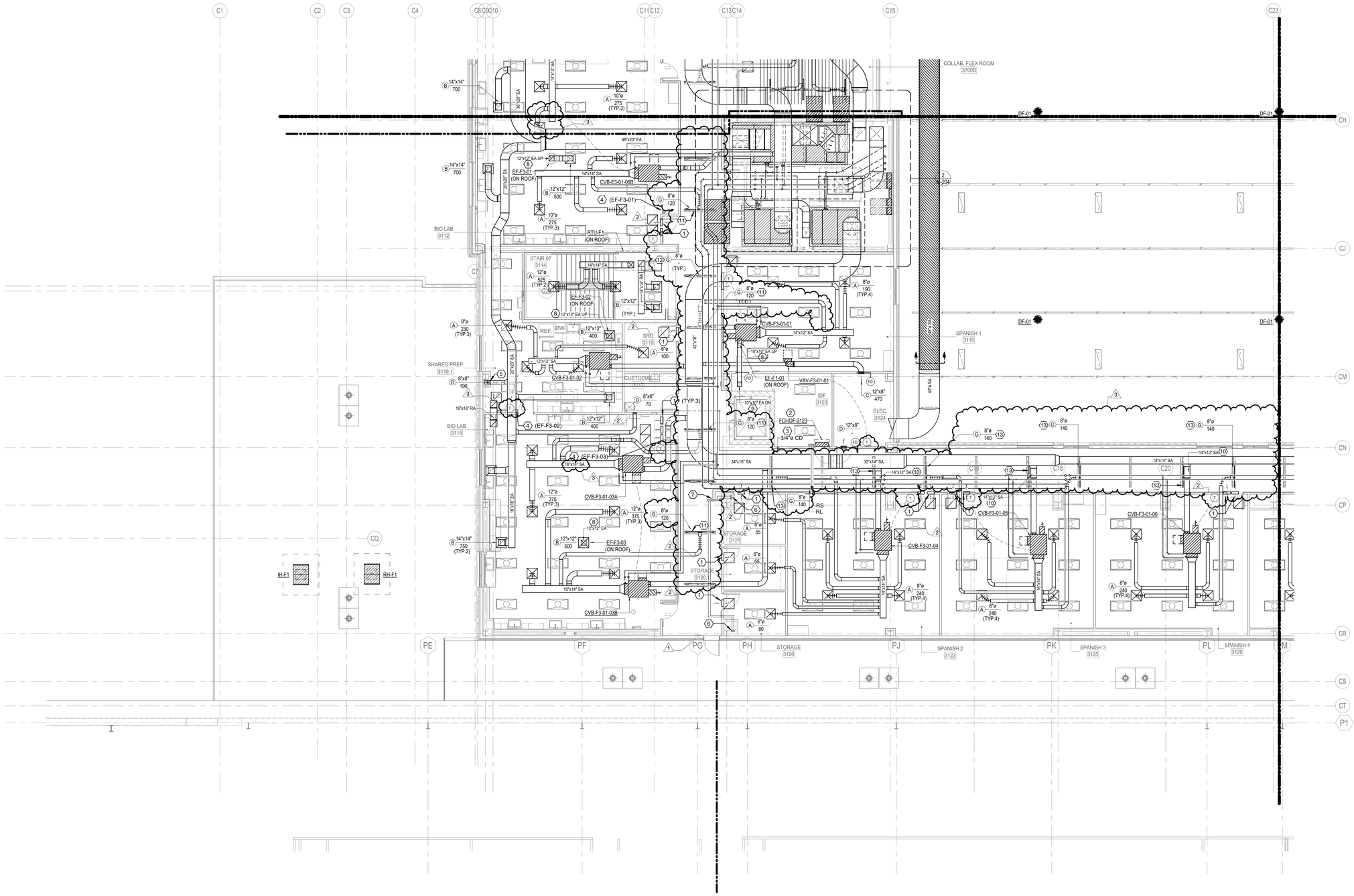
0"
1"

3RD FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
M-103F

FOR BLUEBEAM LABELING/OCR:

MECHANICAL KEYED NOTES:

1. PROVIDE 16"x16" RETURN AIR WALL OPENING ABOVE CEILING.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. ROUTE 3/4"Ø CONDENSATE DRAIN LINE TO NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
4. PROVIDE PURGE EXHAUST FAN WITH PURGE MODE BUTTON. REFER TO SEQUENCES OF OPERATIONS.
5. ROUTE 8"X8" EXHAUST DUCT DOWN THRU PROVIDED CHASE/FURR-OUT TO LOW EXHAUST GRILLE. BOTTOM OF GRILLE TO BE NO HIGHER THAN 12" A.F.F.
6. REFRIGERANT PIPING ROUTING FROM LEVEL BELOW. ALL OUTDOOR AND EXPOSED REFRIGERANT PIPING SHALL BE WRAPPED WITH ALUMINUM JACKET.
7. ROUTE REFRIGERANT LINES UP TO THE ROOF. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
8. ROUTE EXHAUST DUCT UP TO EXHAUST FAN ON ROOF. TRANSITION TO FAN INLET.
9. EXHAUST DUCT ROUTED DOWN TO FLOOR BELOW. SEE M-102F FOR CONTINUATION.
10. AFTER RECTANGULAR CVB TAP, TRANSITION SUPPLY AIR DUCTWORK AS SHOWN ON DETAIL 04/601.
11. LINEAR SLOT TO BE CENTERED ALONG LIGHT AND INACTIVE PORTION TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING.
12. RETURN AIR LINEAR SLOT TO BE CENTERED ALONG LIGHT. INACTIVE PORTIONS TO BE BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR ACTIVE PORTION, PROVIDE WITH LIGHT SHIELD.
13. LINEAR SLOT WITH INACTIVE PORTION BLANKED OFF. PROVIDE CONTINUOUS FLASHING. FOR RETURN AIR SLOTS, PROVIDE WITH LIGHT SHIELD.



1 3RD FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
1/7/2026 8:37:22 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547
CLIENT PROJECT NO: 240539
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Galena Park ISD

F

KEY PLAN
NORTH: PLAN ≈ TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT: GALENA PARK ISD
DATE: December 5, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

3RD FLOOR MECHANICAL PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

M-103F

3RD FLOOR MECHANICAL PLAN - AREA G NEW MULTIPURPOSE FACILITY

FLOOR PLAN

M-103G

FOR BLUEBEAM LABELING/OCR:

MECHANICAL KEYED NOTES:

1. FOR DUCTWORK CONTINUATION, SEE 01-M-205. ALL EXPOSED NON-FABRIC DUCT TO BE DOUBLE WALL: REFER TO METAL DUCT SPECIFICATIONS.

FORENSIC LAB 3102
PHYSICS LAB 3149
ENDCAP
PREP 3102.1
PREP 3145.1
ASTRONOMY CLASS 3107
IPC 3145
GIRLS RR 3109
GIRLS RESTROOM 3144
BOYS RR 3111
BOYS RESTROOM 3142
COLLAB. FLEX ROOM 3700A
COLLAB. FLEX ROOM 3700B
MULTI-PURPOSE 1000
SPANISH 1 3116
FRENCH 3137
CORRIDOR C3700
IDF 3131
MECH. ACCESS 3130
DF-01
RH-E1 (ON ROOF)
8"ø 145 (TYP.4)
48"ø
169'-0"
180'-0"
40"x 5A

SECTION 7 - 19,000 CFM
ISOTHERMAL THROW BASED ON TERMINAL VELOCITY OF 50 FPM
3.125" VENT AT 5:00 = 61'-0"
2.75" VENT AT 6:00 = 54'-0"

SECTION 8 - 19,000 CFM
ISOTHERMAL THROW BASED ON TERMINAL VELOCITY OF 50 FPM
2.75" VENT AT 5:00 = 54'-0"
3.125" VENT AT 6:00 = 61'-0"
3.125" VENT AT 7:00 = 61'-0"

SECTION 9 - 19,000 CFM
ISOTHERMAL THROW BASED ON TERMINAL VELOCITY OF 50 FPM
2.75" VENT AT 5:00 = 54'-0"
3.125" VENT AT 6:00 = 61'-0"
3.125" VENT AT 6:00 = 61'-0"

SECTION 10 - 19,000 CFM
ISOTHERMAL THROW BASED ON TERMINAL VELOCITY OF 50 FPM
2.75" VENT AT 6:00 = 54'-0"
3.125" VENT AT 7:00 = 61'-0"

ALL HATCHED DUCTWORK SHALL BE 48"Ø FABRIC DUCT WITH INTERNAL HOOP SYSTEM. CENTERLINE OF FABRIC DUCT AT APPROX. 53'-6" A.F.F. REFER TO DETAILS. LENGTH OF FABRIC DUCT: 169'-0"

ALL HATCHED DUCTWORK SHALL BE 48"Ø FABRIC DUCT WITH INTERNAL HOOP SYSTEM. CENTERLINE OF FABRIC DUCT AT APPROX. 60'-0" A.F.F. REFER TO DETAILS. LENGTH OF FABRIC DUCT: 180'-0"

ALL HATCHED DUCTWORK SHALL BE 48"Ø FABRIC DUCT WITH INTERNAL HOOP SYSTEM. CENTERLINE OF FABRIC DUCT AT APPROX. 60'-0" A.F.F. REFER TO DETAILS. LENGTH OF FABRIC DUCT: 180'-0"

ALL HATCHED DUCTWORK SHALL BE 48"Ø FABRIC DUCT WITH INTERNAL HOOP SYSTEM. CENTERLINE OF FABRIC DUCT AT APPROX. 53'-6" A.F.F. REFER TO DETAILS. LENGTH OF FABRIC DUCT: 169'-0"

1 3RD FLOOR MECHANICAL PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
1/7/2026 8:37:33 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED PROFESSIONAL ENGINEER

LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
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3	ADD 05	2026/01/08

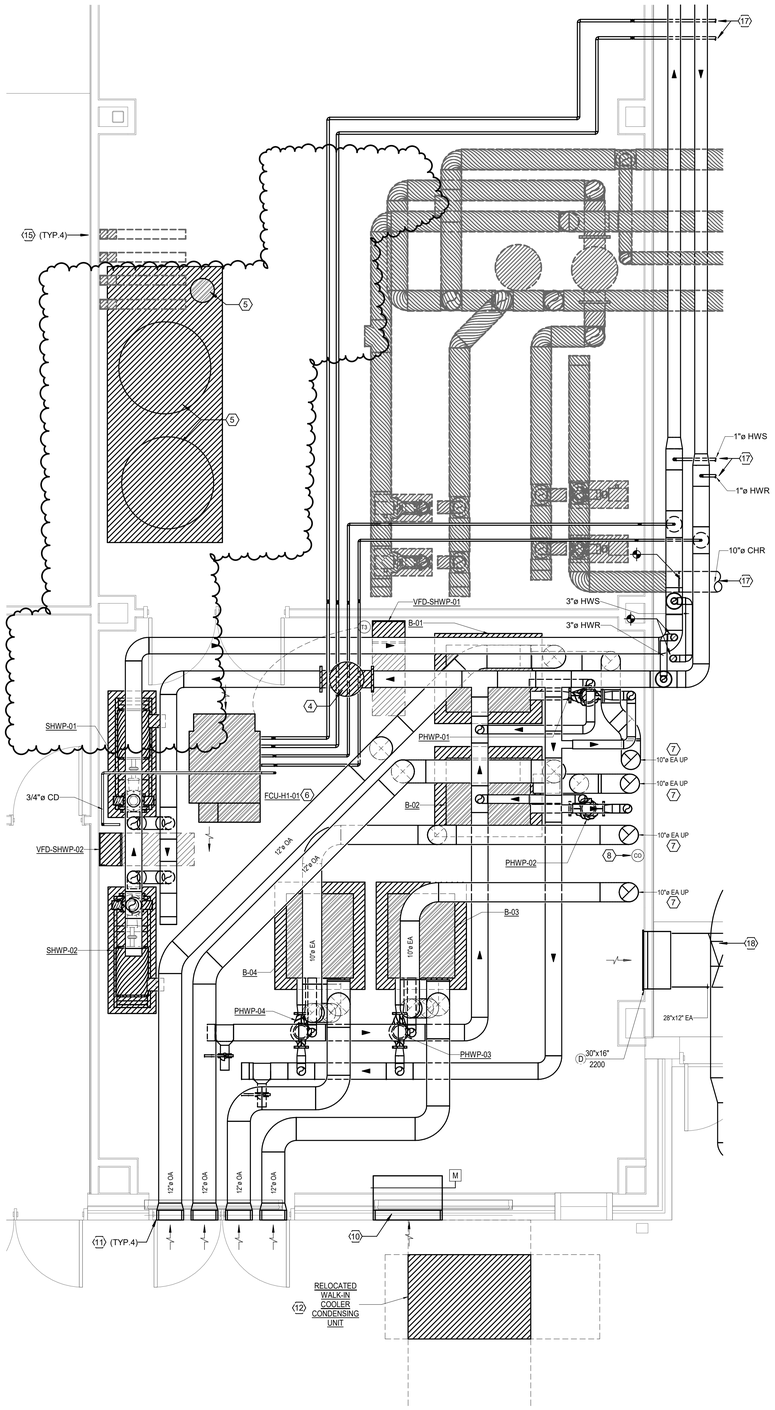
CHECKED BY: MP
DRAWN BY: CT

3RD FLOOR MECHANICAL PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

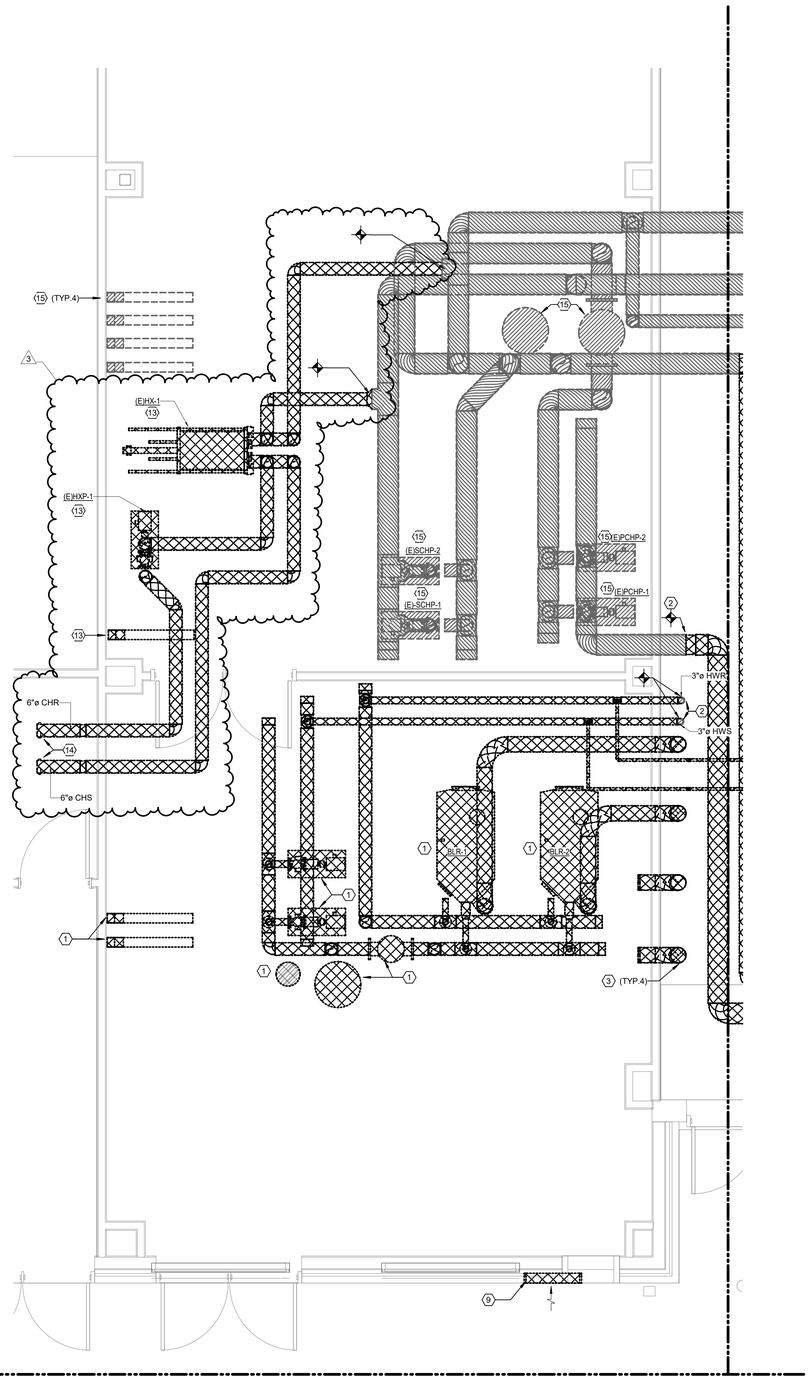
M-103G

ENLARGED TEMPORARY MECHANICAL PLAN
M-201
FOR BLUEBEAM LABELING/OCR:

0"
1"



2 1ST FLOOR TEMPORARY MECHANICAL ENLARGED PLAN - AREA H - CTE
3/8" = 1'-0"



1 1ST FLOOR TEMPORARY MECHANICAL ENLARGED DEMO PLAN - AREA H - CTE
3/8" = 1'-0"

MECHANICAL GENERAL NOTES:

ALL WORK ON THIS SHEET TO BE COMPLETED IN THE SUMMER OF 2026 PRIOR TO THE ARRIVAL OF PKG 3C CENTRAL PLANT. COORDINATE EXACT TIMING OF WORK WITH OWNER.

MECHANICAL KEYED NOTES:

1. EXISTING BOILER SYSTEM TO BE DEMOLISHED AND REPLACED DURING THE SUMMER OF 2026. ALL EXISTING PIPING, PIPING ACCESSORIES, AND SUPPORTS ARE TO BE REMOVED UP TO POINT INDICATED ON PLAN. ALL VFDs, AIR DIRT SEPARATOR, CHEMICAL TREATMENT TANK, AND EXPANSION TANKS SERVING THE BOILER SYSTEM TO BE DEMOLISHED. EQUIPMENT TO BE HANDED OVER TO OWNER. CONTRACTOR TO COORDINATE TIMING OF DEMOLITION WITH OWNER TO MINIMIZE DOWNTIME. EXISTING HOUSEKEEPING PADS TO ALSO BE DEMOLISHED.
2. PROVIDE NEW ISOLATION VALVES IN PIPING FOR CONNECTION OF NEW PIPING.
3. FLUE VENTS AND ROOF CAPS FOR OLD BOILER SYSTEM GOING UP THROUGH CHASE TO BE DEMOLISHED.
4. COMBINATION DIRT/AIR SEPARATOR SUSPENDED FROM STRUCTURE.
5. HOT WATER EXPANSION AND CHEMICAL TREATMENT TANKS. SET ON 4" HIGH HOUSEKEEPING PAD. CONTRACTOR TO FIELD VERIFY LOCATION TO VERIFY FIT.
6. FAN COIL SUSPENDED FROM STRUCTURE. ROUTE 3/4" TO NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATIONS. CONDUCTIVITY SENSOR SHALL BE-ENERGIZED UNIT ON SENSING MOISTURE IN PAN. PAN TO EXTEND UNDER VALVING OF UNIT AND 6" BEYOND UNIT ELSEWHERE. PAN SHALL BE SUPPORTED FROM STRUCTURE. REFER TO SPECIFICATIONS AND DETAILS
7. 10"Ø BOILER FLUE ROUTED TO ROOF THRU EXISTING CHASE. TERMINATE WITH ROOF CAP. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO DETAIL.
8. CARBON MONOXIDE SENSOR (CO) TO BE INSTALLED CONCURRENTLY WITH INSTALLTION OF NEW BOILER SYSTEM; VERIFY FINAL LOCATION WITH OWNER. REFER TO SEQUENCE OF OPERATIONS. THE SENSOR SHALL BE CALIBRATED EVERY EIGHTEEN MONTHS & A RECORD OF CALIBRATION SHALL BE POSTED IN A CONSPICUOUS PLACE.
9. EXISTING LOUVER AND ASSOCIATED ACCESSORIES TO DEMOLISHED TO MAKE SPACE FOR NEW FIRE RISERS IN BOILER ROOM. LOUVER PENETRATION TO BE IN-FILLED PER ARCHITECTS' DRAWINGS AND SPECIFICATIONS.
10. PROVIDE AMCA 550 AND 540 RATED LOUVER CONCURRENTLY WITH INSTALLATION OF NEW BOILER SYSTEM WITH A MINIMUM FREE AREA OF 2.6 SQ. FT. AND MAX PRESSURE DROP OF 0.15" W.G. AT 2,200 CFM (BOD: 30"X24"). PROVIDE LOUVER WITH NORMALLY CLOSED MOTORIZED DAMPER THAT IS INTERLOCKED WITH EF-H1-01 FOR CO PURGE. COORDINATE LOCATION OF NEW LOUVER WITH NEW FIRE RISERS IN BOILER ROOM. REFER TO ARCHITECTURAL PLAN FOR MORE DETAILS.
11. TERMINATE BOILER INTAKES WITH BOILER MANUFACTURER RECOMMENDED WALL THIMBLE KIT AND/OR ANY OTHER ACCESSORIES RECOMMENDED FROM THE MANUFACTURER.
12. RELOCATED WALK IN COOLER CONDENSER RELOCATED PRIOR TO PKG 3C CENTRAL PLANT ARRIVAL. SEE M-101HT FOR MORE DETAILS.
13. EXISTING HEAT EXCHANGER,HEAT EXCHANGER PUMP, AND PUMP VFD TO BE DEMOLISHED IN THE SUMMER OF 2026. DISPOSE OF EQUIPMENT AS DIRECTED BY OWNER.
14. 6" CHS/R HEAT EXCHANGER PIPING RUNNING THRU CTE TO BE DEMOLISHED. FOR CONTINUATION, SEE MD-100
15. EXISTING CHILLED WATER LOOP PUMPS, VFDs, AIR/DIRT SEPARATOR, WATER EXPANSION TANK AND OTHER ACCESSORIES TO REMAIN UNTIL THE ARRIVAL AND HOOKUP OF PKG 3C CENTRAL PLANT.
16. NOT USED.
17. FOR PIPING CONTINUATION, SEE M-101HT.
18. FOR DUCTWORK CONTINUATION, SEE M-101HT.

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
GALENA PARK ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

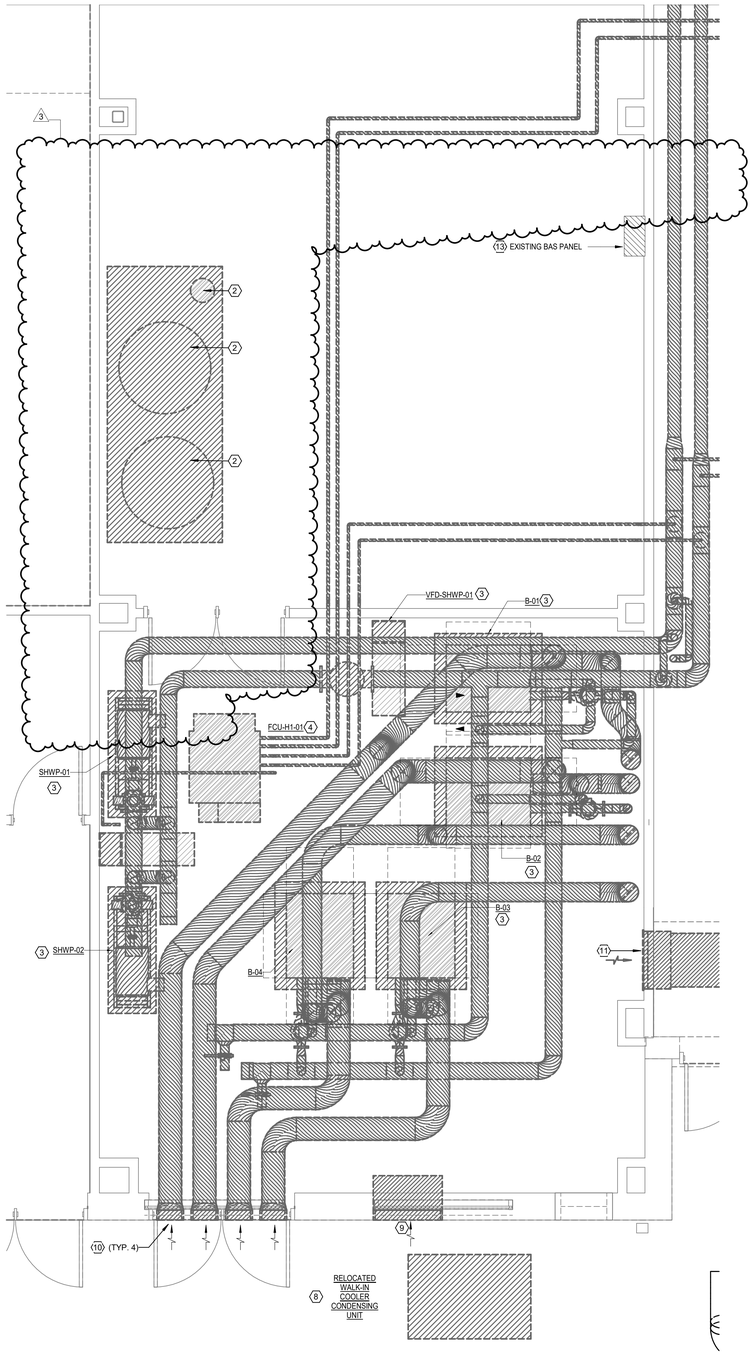
ENLARGED TEMPORARY MECHANICAL PLAN

M-201

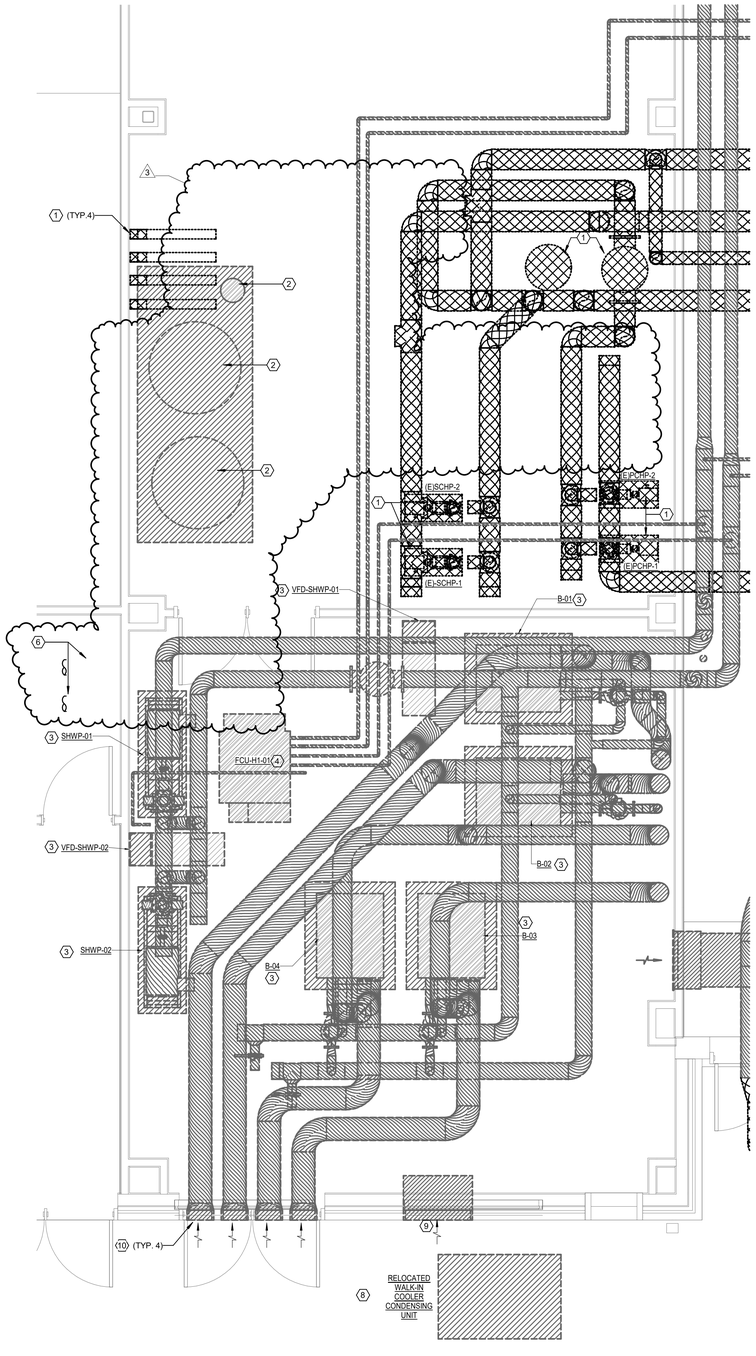
Plot Stamp:
1/7/2026 8:37:37 PM

0"
1"

ENLARGED MECHANICAL PLAN
M-202
FOR BLUEBEAM LABELING/OCR:



2 1ST FLOOR CTE ENLARGED MECHANICAL PLAN- AREA H
3/8" = 1'-0"



1 1ST FLOOR CTE ENLARGED DEMO MECHANICAL PLAN - AREA H
3/8" = 1'-0"

MECHANICAL KEYED NOTES:

1. EXISTING CTE CHILLED WATER SYSTEM TO BE DEMOLISHED AND REPLACED AFTER THE ARRIVAL OF PKG 3C CENTRAL PLANT. EXISTING PIPING, PIPING ACCESSORIES, AND SUPPORTS ARE TO BE REMOVED UP TO POINT INDICATED ON PLAN. EXISTING PUMPS AND VFDs TO BE DEMOLISHED. EQUIPMENT TO BE HANDED OVER TO OWNER. EQUIPMENT HOUSEKEEPING PADS TO BE DEMOLISHED. CONTRACTOR TO COORDINATE TIMING OF DEMOLITION WITH OWNER TO MINIMIZE DOWNTIME.
2. HOT WATER EXPANSION AND CHEMICAL TREATMENT TANKS ADDED DURING REPLACEMENT OF BOILER SYSTEM TO REMAIN.
3. BOILERS AND BOILER SYSTEM TO BE INSTALLED DURING THE SUMMER OF 2026. SEE M-201 FOR DETAILS.
4. SUSPENDED FCU-H1-01 TO BE INSTALLED DURING THE SUMMER OF 2026. SEE M-201 FOR DETAILS.
5. NOT USED
6. NOT USED.
7. FOR 6" CHS/R HEAT EXCHANGER PIPING CONTINUATION, SEE M-101H.
8. RELOCATED WALK IN COOLER CONDENSER RELOCATED PRIOR TO PKG 3C CENTRAL PLANT ARRIVAL. SEE M-101HT FOR MORE DETAILS.
9. LOUVER AND PLENUM BOX INSTALLED DURING INSTALLATION OF BOILER SYSTEM. SEE M-201 FOR DETAILS.
10. BOILER INTAKES INSTALLED DURING INSTALLATION OF BOILER SYSTEM. SEE M-201 FOR DETAILS.
11. EXHAUST GRILLE AND DUCTWORK INSTALLED DURING INSTALLATION OF BOILER SYSTEM. SEE M-201 FOR DETAILS.
12. FOR PIPING CONTINUATION, SEE M-101H.
13. CONTRACTOR FOR PKG 3B TO PROVIDE BAS CONNECTION FROM PKG 3C CENTRAL PLANT TO EXISTING CTE BAS.

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
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December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

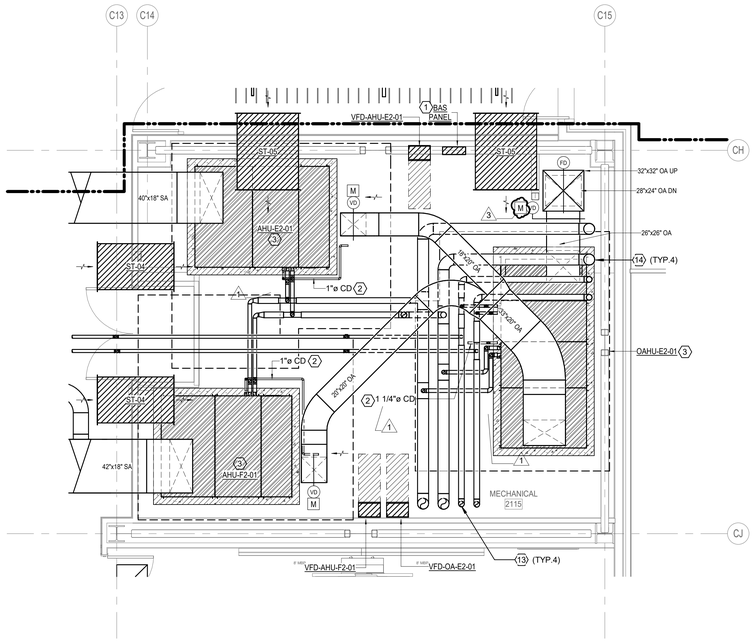
ENLARGED MECHANICAL PLAN

M-202

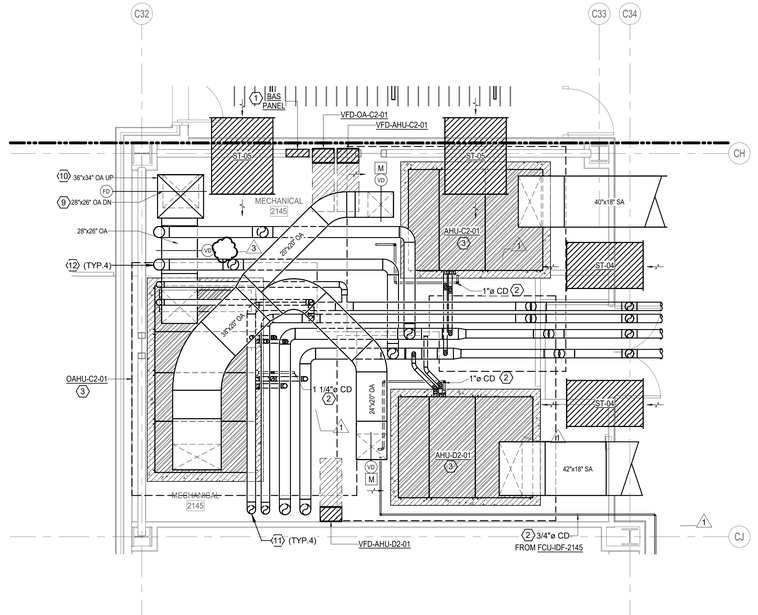
Plot Stamp:
1/7/2026 8:37:42 PM

ENLARGED MECHANICAL PLAN
M-203
FOR BLUEBEAM LABELING/OCR:

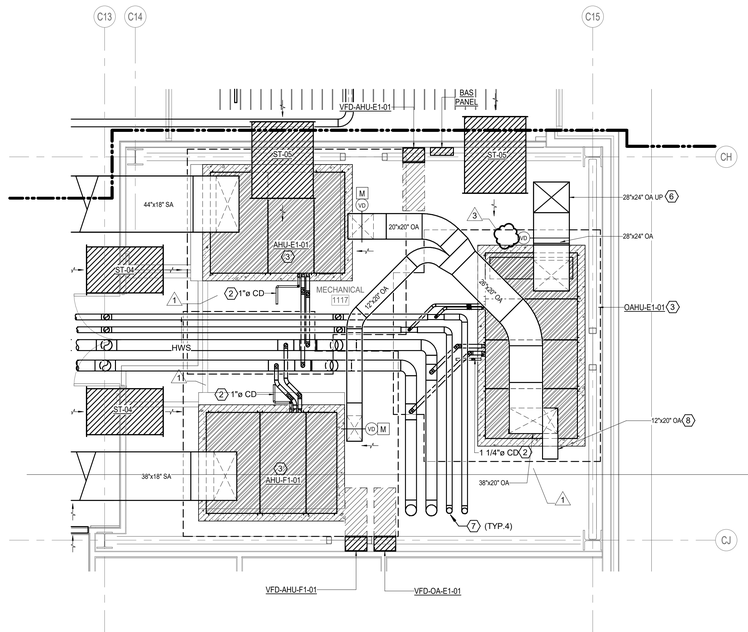
0"
1"



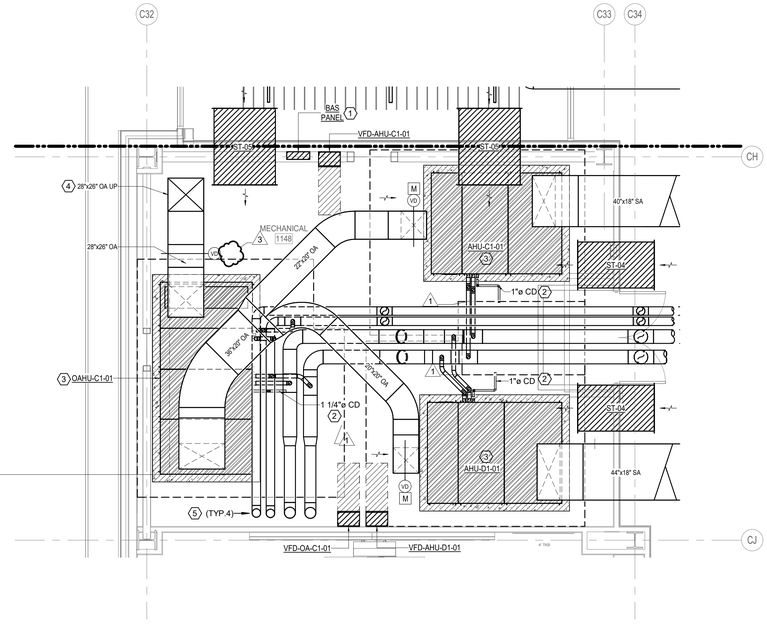
4 2ND FLOOR MPF ENLARGED MECHANICAL ROOM (2115)
1/4" = 1'-0"



3 2ND FLOOR MPF ENLARGED MECHANICAL ROOM (2145)
1/4" = 1'-0"



2 1ST FLOOR MPF ENLARGED MECHANICAL ROOM (1117)
1/4" = 1'-0"



1 1ST FLOOR MPF ENLARGED MECHANICAL ROOM (1148)
1/4" = 1'-0"

MECHANICAL KEYED NOTES:

1. PROPOSED LOCATION OF DDC PANEL. COORDINATE FINAL LOCATION WITH EMCS CONTRACTOR.
2. ROUTE CONDENSATE DRAIN SIZED AS SHOWN TO NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
3. PROVIDE 6" TALL HOUSE KEEPING PAD EXTENDING 6" BEYOND UNIT FOOTPRINT.
4. OUTSIDE AIR DUCT UP TO LEVEL ABOVE. SEE 3:M-203 FOR DUCTWORK CONTINUATION.
5. CHS/R AND HWS/R UP TO LEVEL ABOVE. SEE 3:M-203 FOR CONTINUATION.
6. OUTSIDE AIR DUCT UP TO LEVEL ABOVE. SEE 4:M-203 FOR DUCTWORK CONTINUATION.
7. CHS/R AND HWS/R UP TO LEVEL ABOVE. SEE 4:M-203 FOR CONTINUATION.
8. 12"X20" OUTSIDE AIR DUCT TO SERVE TEMPORARY ADMIN SPACES IN SEPARATE PACKAGE. REFER TO TEMPORARY ADMIN SPACE PACKAGE FOR CONTINUATION.
9. OUTSIDE AIR DUCT DOWN TO LEVEL BELOW. PROVIDE FIRE DAMPER AT FLOOR PENETRATION. SEE 1:M-203 FOR DUCTWORK CONTINUATION.
10. OUTSIDE AIR DUCT UP TO LEVEL ABOVE. SEE 1:M-204 FOR DUCTWORK CONTINUATION.
11. CHS/R AND HWS/R DOWN TO LEVEL BELOW. SEE 1:M-203 FOR CONTINUATION.
12. CHS/R AND HWS/R UP TO LEVEL ABOVE. SEE 1:M-204 FOR CONTINUATION.
13. CHS/R AND HWS/R DOWN TO LEVEL BELOW. SEE 2:M-203 FOR CONTINUATION.
14. CHS/R AND HWS/R UP TO LEVEL ABOVE. SEE 2:M-204 FOR CONTINUATION.

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

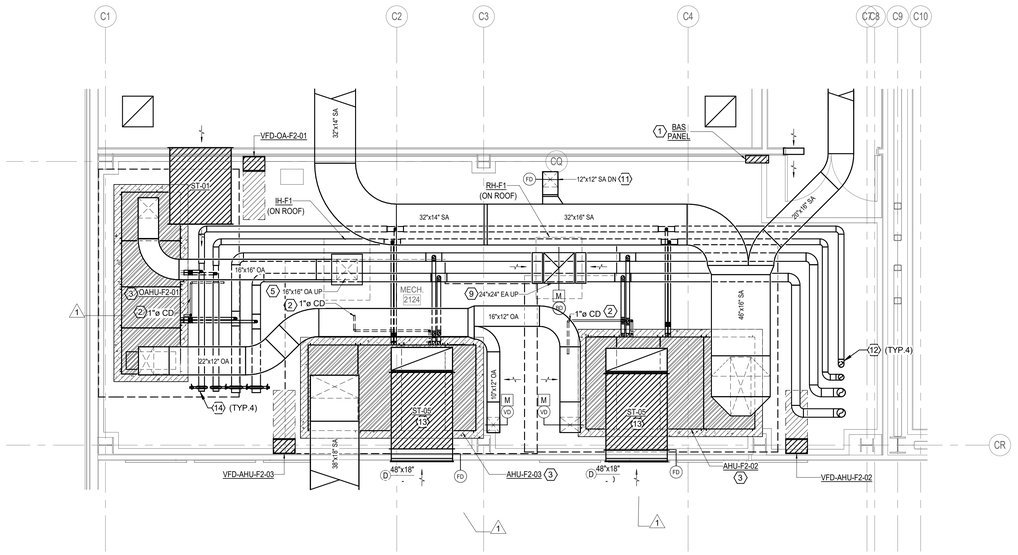
ENLARGED MECHANICAL PLAN

M-203

Plot Stamp:
1/7/2026 8:37:44 PM

ENLARGED MECHANICAL PLAN
M-204
FOR BLUEBEAM LABELING/OCR:

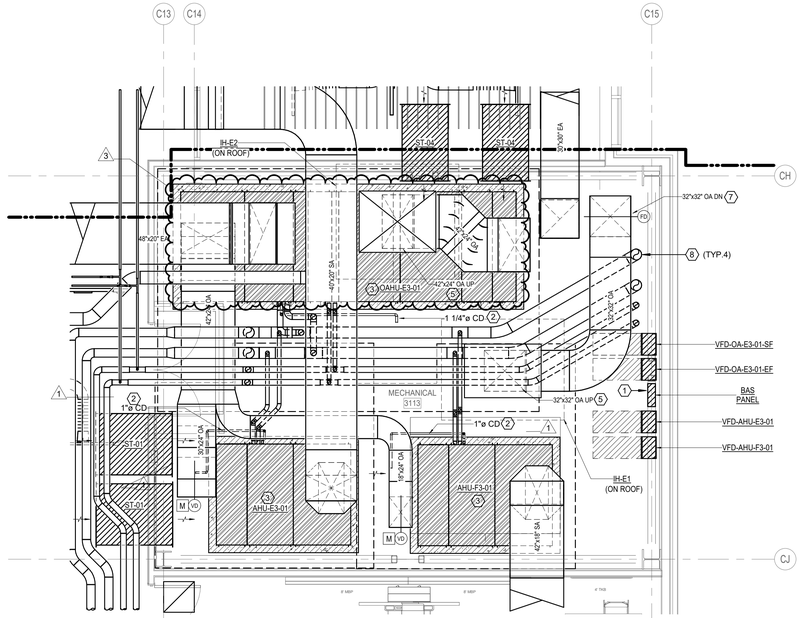
0"
1"



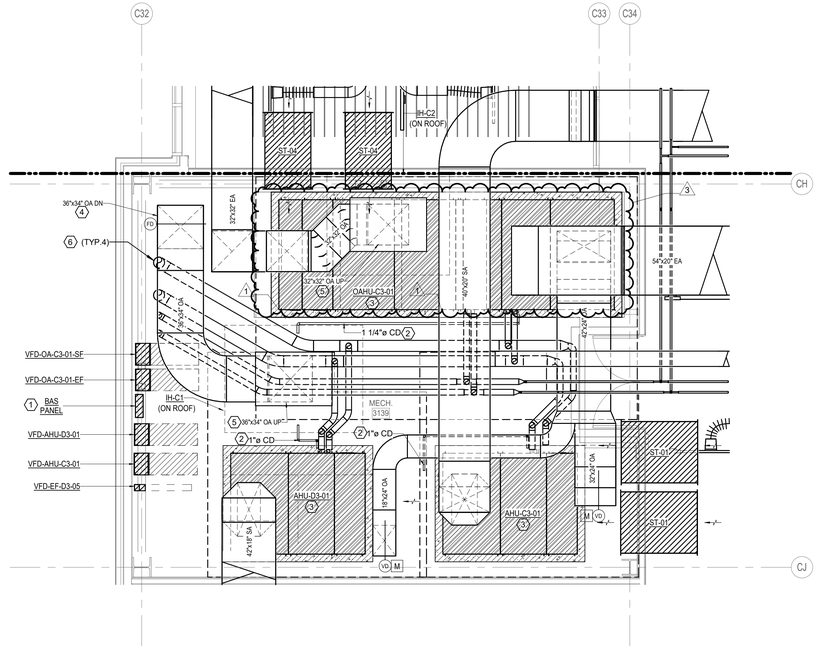
MECHANICAL KEYED NOTES:

1. PROPOSED LOCATION OF DDC PANEL. COORDINATE FINAL LOCATION WITH EMCS CONTRACTOR.
2. ROUTE CONDENSATE DRAIN SIZED AS SHOWN TO NEAREST FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
3. PROVIDE 6" TALL HOUSE KEEPING PAD EXTENDING 6" BEYOND UNIT FOOTPRINT.
4. OUTSIDE AIR DUCT DOWN TO LEVEL BELOW. PROVIDE FIRE DAMPER AT FLOOR PENETRATION. SEE 3/M-203 FOR DUCTWORK CONTINUATION.
5. OUTSIDE AIR DUCT ROUTED UP THROUGH ROOF TO INTAKE HOOD. TRANSITION TO UNIT INLET.
6. CHS/R AND HWS/R DOWN TO LEVEL BELOW. SEE 3/M-203 FOR CONTINUATION.
7. OUTSIDE AIR DUCT DOWN TO LEVEL BELOW. PROVIDE FIRE DAMPER AT FLOOR PENETRATION. SEE 4/M-203 FOR DUCTWORK CONTINUATION.
8. CHS/R AND HWS/R DOWN TO LEVEL BELOW. SEE 4/M-203 FOR CONTINUATION.
9. EXHAUST AIR DUCT ROUTED UP THROUGH ROOF TO RELIEF HOOD. TRANSITION TO UNIT INLET.
10. CHS/R AND HWS/R DOWN TO LEVEL BELOW. SEE 4/M-203 FOR CONTINUATION.
11. SUPPLY AIR DUCT DOWN TO LEVEL BELOW. PROVIDE FIRE DAMPER AT FLOOR PENETRATION. SEE M-101F FOR DUCTWORK CONTINUATION.
12. CHS/R AND HWS/R DOWN TO LEVEL BELOW. SEE M-101F FOR CONTINUATION.
13. CONNECT SOUND TRAP TO RETURN AIR GRILLE AS SHOWN. CONNECT 48"x18" INTERNALLY LINED RETURN AIR ELBOW TO SOUND TRAP AS SHOWN. INTERNALLY LINED RETURN ELBOW TO OPEN UPWARDS. ALL DIMENSIONS SHOWN ARE CLEAR INNER DIMENSIONS.
14. TERMINATE CHS/R AND HWS/R PIPING WITH BUTTERFLY VALVE AND BLIND FLANGE FOR FUTURE CONNECTION. SEE PIPING DIAGRAM FOR MORE DETAILS.

3 2ND FLOOR MPF ENLARGED MECHANICAL ROOM (2124)
1/4" = 1'-0"



2 3RD FLOOR MPF ENLARGED MECHANICAL ROOM (3113)
1/4" = 1'-0"



1 3RD FLOOR MPF ENLARGED MECHANICAL ROOM (3139)
1/4" = 1'-0"

Plot Stamp:
1/7/2026 8:37:48 PM

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
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LEAF ENGINEERS

KEY PLAN
NORTH: PLAN TRUE

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MITAL J. PATEL
111622
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

ENLARGED MECHANICAL PLAN

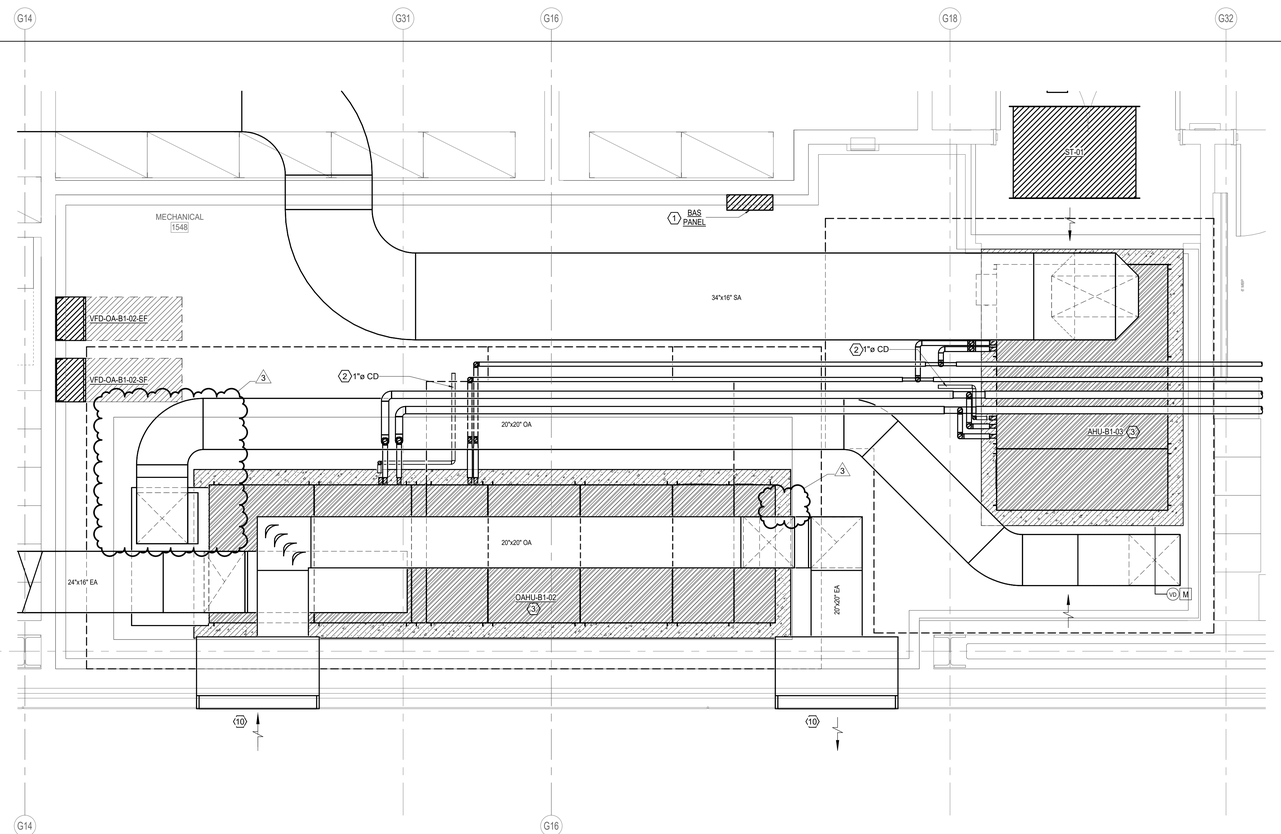
M-204

0"
1"

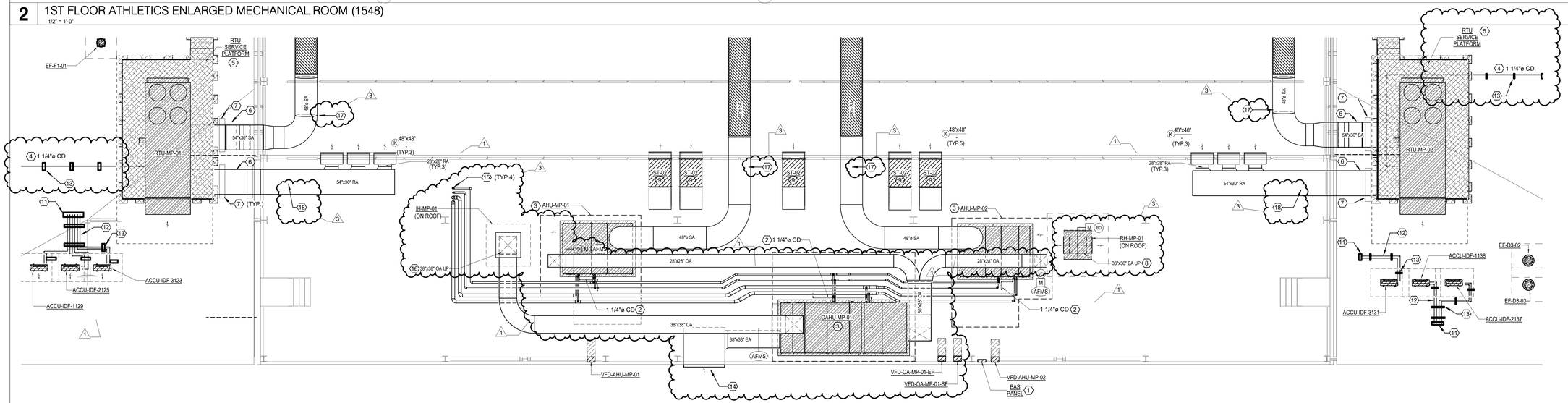
ENLARGED MECHANICAL PLAN
M-205
FOR BLUEBEAM LABELING/OCR:

MECHANICAL KEYED NOTES:

1. PROPOSED LOCATION OF DDC PANEL. COORDINATE FINAL LOCATION WITH EMCS CONTRACTOR.
2. ROUTE CONDENSATE DRAIN LINE SIZED AS SHOWN TO NEAREST FLOOR DRAIN. REFER PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
3. PROVIDE 6" TALL HOUSE KEEPING PAD EXTENDING 6" BEYOND UNIT FOOTPRINT.
4. ROUTE CONDENSATE DRAIN LINE SIZED AS SHOWN TO NEAREST ROOF DRAIN. REFER PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
5. CUSTOM ELEVATED MODULAR SERVICE PLATFORM MANUFACTURED BY PHP SYSTEMS DESIGN AND INSTALLED BY THE MECHANICAL CONTRACTOR. REFER TO SPECIFICATION 23 05 29, 2.13 ELEVATED MODULAR SERVICE PLATFORM WITH STAIRS FOR FURTHER REQUIREMENTS
6. REFER TO METAL DUCT SPECIFICATION FOR OUTDOOR DUCTWORK REQUIREMENTS.
7. PROVIDE PORTABLE DUCT SUPPORT IN MAXIMUM 5'-0" INTERNALS.
8. EXHAUST AIR DUCT ROUTED UP THROUGH ROOF TO RELIEF HOOD. TRANSITION TO UNIT INLET.
9. CONNECT SOUND TRAP TO RETURN AIR GRILLE AS SHOWN. CONNECT INTERNALLY LINED RETURN AIR 48"x48" ELBOW TO SOUND TRAP AS SHOWN. INTERNALLY LINED RETURN ELBOW TO OPEN UPWARDS. ALL DIMENSIONS SHOWN ARE CLEAR INNER DIMENSIONS.
10. PROVIDE AMCA 550 AND 540 LOUVER WITH MINIMUM FREE AREA OF 5.6 SQ. FT. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION.
11. PROVIDE STAINLESS STEEL HOODED CURB AT ROOF PENETRATION. REFER TO ARCHITECTURAL DRAWING.
12. ALL EXPOSED AND OUTDOOR LIQUID AND SUCTION LINES SHALL BE WRAPPED WITH ALUMINUM JACKETING.
13. PROVIDE PORTABLE PIPE SUPPORTS FOR PIPING IN MAX. HORIZONTAL SPACING OF 5'-0".
14. PROVIDE AMCA 550 AND 540 LOUVER WITH MINIMUM FREE AREA OF 29.2 SQ.FT. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION.
15. HYDRONIC PIPING DOWN TO FLOOR BELOW. SEE M-103F FOR CONTINUATION.
16. OUTDOOR AIR DUCT UP TO ROOF TO INTAKE HOOD. TRANSITION TO UNIT INLET.
17. ALL EXPOSED NON-FABRIC DUCT TO BE DOUBLE WALL: REFER TO METAL DUCT SPECIFICATIONS FOR ADDITIONAL DETAILS.
18. TRANSITION TO SINGLE WALL DUCTWORK WITH EXTERNAL INSULATION INSIDE THE MECHANICAL ROOM.



2 1ST FLOOR ATHLETICS ENLARGED MECHANICAL ROOM (1548)
1/2" = 1'-0"



1 ENLARGED MECHANICAL ROOM (4000)
1/8" = 1'-0"

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1/7/2026 8:37:51 PM

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CLIENT PROJECT NO: 240539
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NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

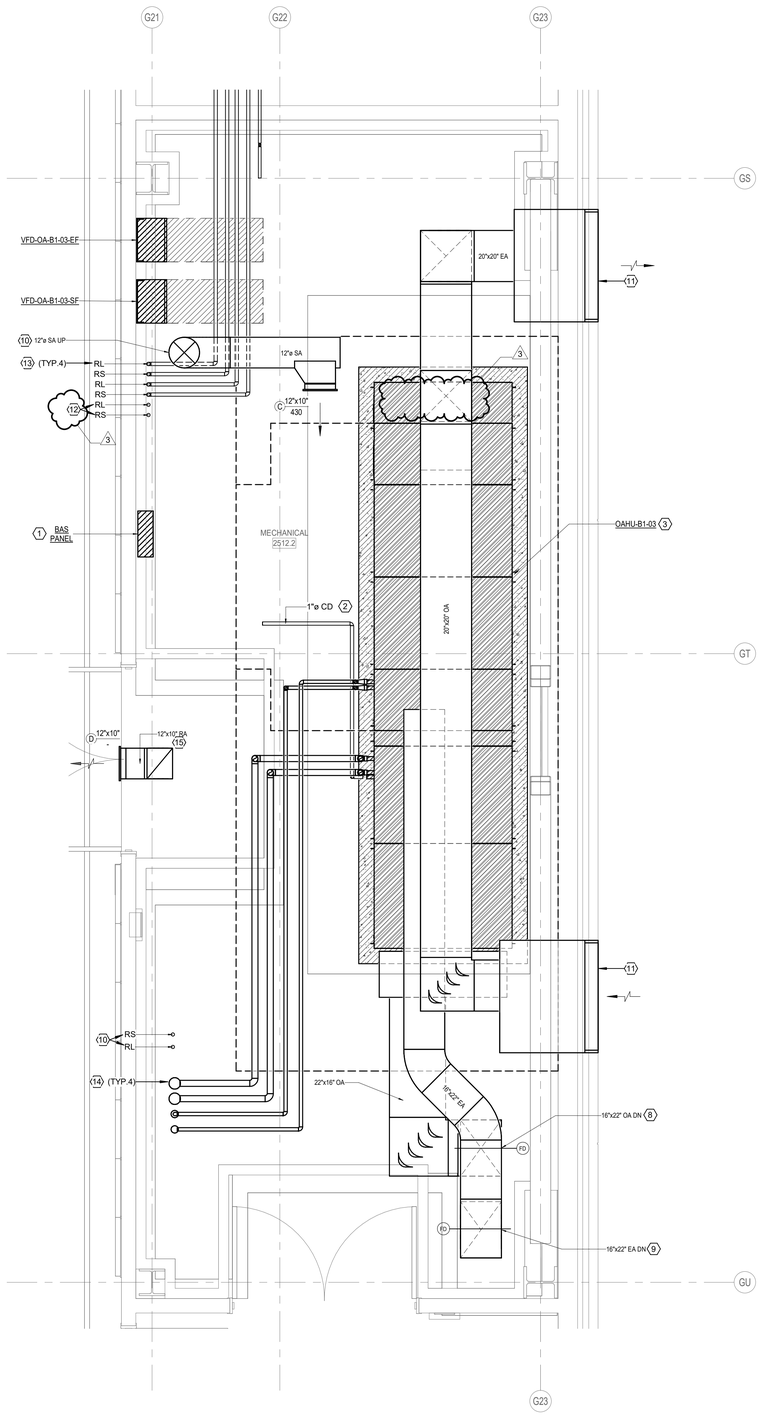
No.	Description	Date
1	ADD 01	2025/12/10
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

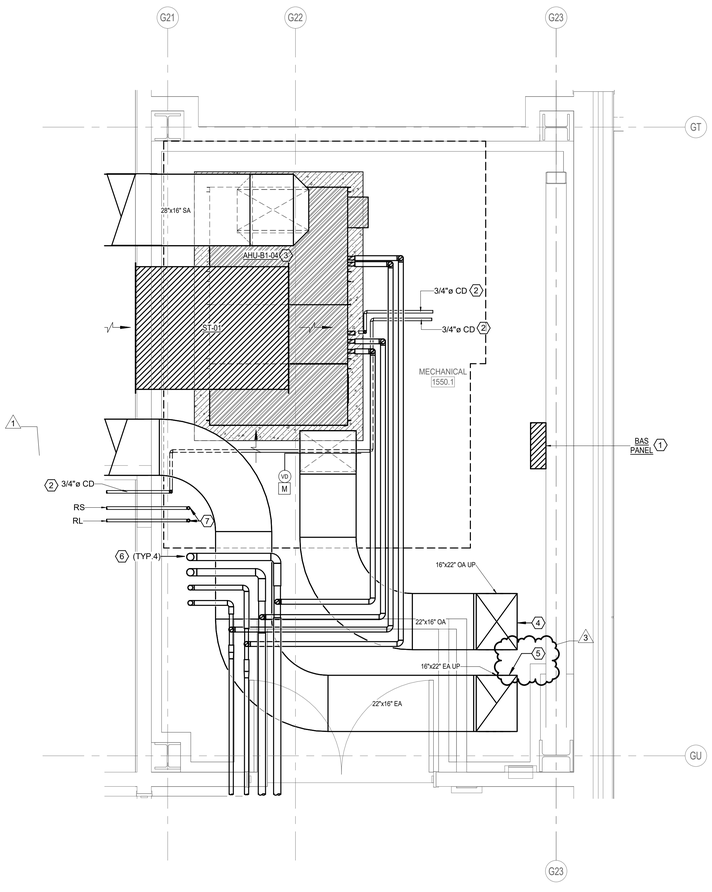
ENLARGED MECHANICAL PLAN

M-205

0"
1"



2 2ND FLOOR ATHLETICS ENLARGED MECHANICAL ROOM (2512.2)
1/2" = 1'-0"



1 1ST FLOOR ATHLETICS ENLARGED MECHANICAL ROOM (1550.1)
1/2" = 1'-0"

MECHANICAL KEYED NOTES:

1. PROPOSED LOCATION OF DDC PANEL. COORDINATE FINAL LOCATION WITH EMCS CONTRACTOR.
2. ROUTE CONDENSATE DRAIN SIZED AS SHOWN TO NEAREST FLOOR DRAIN. REFER PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
3. PROVIDE 6" TALL HOUSE KEEPING PAD EXTENDING 6" BEYOND UNIT FOOTPRINT.
4. OUTSIDE AIR DUCT UP TO LEVEL ABOVE. SEE 02:M-206 FOR DUCTWORK CONTINUATION.
5. EXHAUST AIR DUCT UP TO LEVEL ABOVE. SEE 02:M-206 FOR DUCTWORK CONTINUATION.
6. CHS/R AND HWS/R PIPING UP TO LEVEL ABOVE. SEE 02:M-206 FOR CONTINUATION.
7. ROUTE REFRIGERANT LINES UP TO FLOOR ABOVE. SEE 02:M-206 FOR CONTINUATION. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
8. OUTSIDE AIR DUCT DOWN TO LEVEL BELOW. PROVIDE FIRE DAMPER AT FLOOR PENETRATION. SEE 1:M-206 FOR DUCTWORK CONTINUATION.
9. EXHAUST AIR DUCT DOWN TO LEVEL BELOW. PROVIDE FIRE DAMPER AT FLOOR PENETRATION. SEE 1:M-206 FOR DUCTWORK CONTINUATION.
10. SUPPLY AIR DUCT UP TO LEVEL ABOVE. SEE M-208 FOR DUCTWORK CONTINUATION.
11. PROVIDE AMCA 550 AND 540 LOUVER WITH MINIMUM FREE AREA OF 4.8 SQ. FT. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATION FOR MORE INFORMATION.
12. REFRIGERANT LINES FROM FLOOR BELOW UP TO FLOOR ABOVE. SEE 01:M-206 AND M:208 FOR CONTINUATION. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
13. ROUTE REFRIGERANT LINES UP TO FLOOR ABOVE. SEE 02:M-208 FOR CONTINUATION. SIZE PER MANUFACTURER'S RECOMMENDATION. PROVIDE ALUMINUM JACKETING ON ALL EXPOSED AND OUTDOOR PIPING. FOR VERTICAL REFRIGERANT LINES, PROVIDES SUPPORTS AT MAXIMUM 3' INTERVALS.
14. CHS/R AND HWS/R PIPING FROM FLOOR ABOVE TO FLOOR BELOW. SEE 01:M-206 AND M-208 FOR CONTINUATION.
15. PROVIDE INTERNALLY LINED AIR TRANSFER DUCT. DIMENSIONS SHOWN ARE CLEAR INNER DIMENSIONS.

ENLARGED MECHANICAL PLAN
M-206
FOR BLUEBEAM LABELING/OCR:

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

ENLARGED MECHANICAL PLAN

M-206

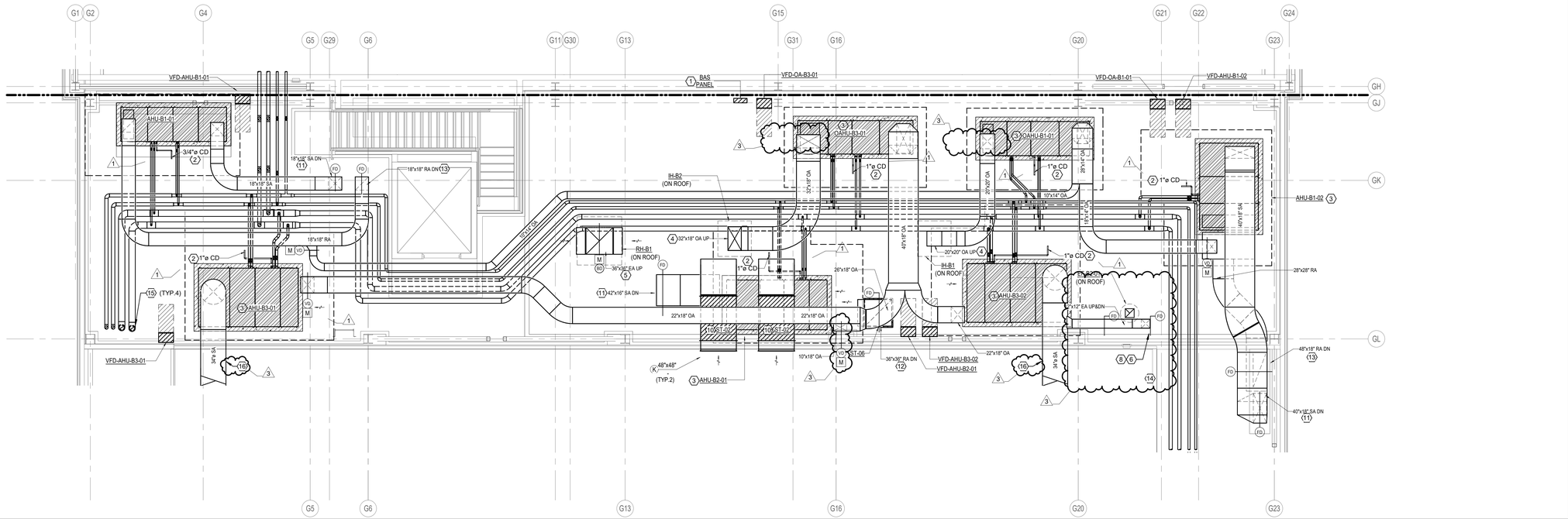
Plot Stamp:
1/7/2026 8:37:53 PM

ENLARGED MECHANICAL PLAN
M-207
FOR BLUEBEAM LABELING/OCR:

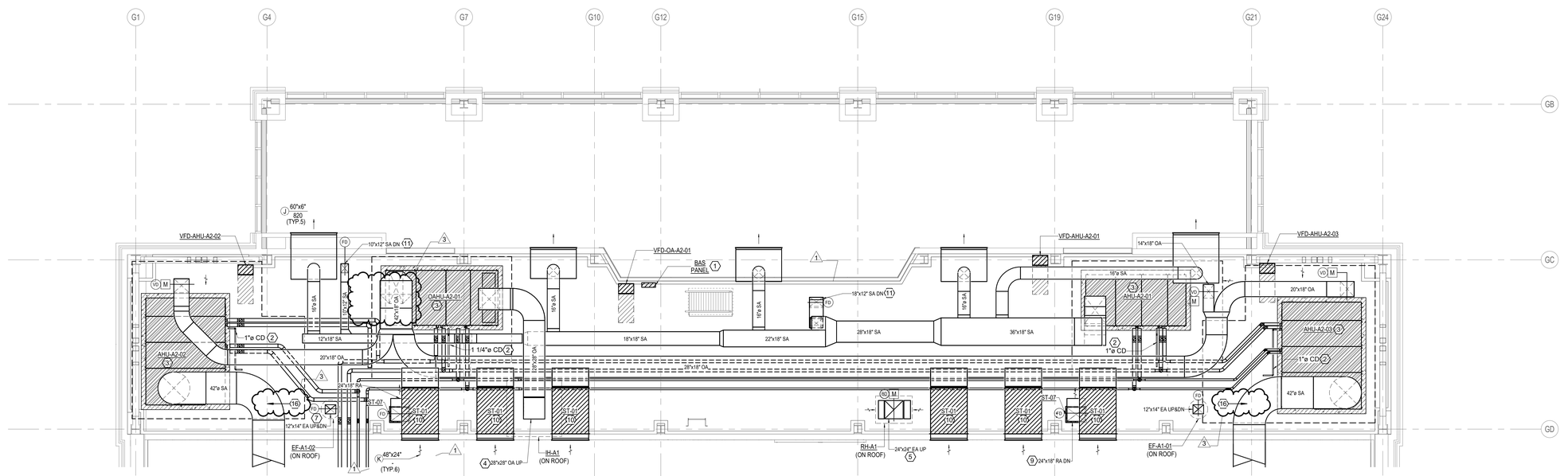
0"
1"

MECHANICAL KEYED NOTES:

1. PROPOSED LOCATION OF DDC PANEL. COORDINATE FINAL LOCATION WITH EMCS CONTRACTOR.
2. ROUTE CONDENSATE DRAIN SIZED AS SHOWN TO NEAREST FLOOR DRAIN. REFER PLUMBING DRAWINGS FOR EXACT DRAIN LOCATION.
3. PROVIDE 6" TALL HOUSE KEEPING PAD EXTENDING 6" BEYOND UNIT FOOTPRINT.
4. OUTSIDE AIR DUCT ROUTED UP THROUGH ROOF TO INTAKE HOOD. TRANSITION TO UNIT INLET.
5. EXHAUST AIR DUCT ROUTED UP THROUGH ROOF TO RELIEF HOOD. TRANSITION TO UNIT INLET.
6. EXHAUST AIR DUCT ROUTED ROOF TO EXHAUST FAN. TRANSITION TO UNIT INLET.
7. EXHAUST AIR DUCT ROUTED UP THROUGH MECHANICAL ROOM FLOOR TO EXHAUST FAN LOCATED ON ROOF. PROVIDE FIRE DAMPER AT FLOOR PENETRATION AND TRANSITIONS AS REQUIRED TO EXHAUST FAN. SEE M-101A FOR DUCTWORK CONTINUATION BELOW.
8. EXHAUST AIR DUCT DOWN TO LEVEL BELOW. PROVIDE FIRE DAMPER AT FLOOR PENETRATION. SEE M-101A FOR DUCTWORK CONTINUATION BELOW.
9. 24"X18" INTERNALLY LINED RETURN AIR DUCT TO ROUTE DOWN THRU SLAB. PROVIDE FIRE DAMPER AT SLAB PENETRATION. INSTALL VERTICAL SOUND TRAP ABOVE INTERNALLY LINED RETURN AIR DUCT. INSTALL INTERNALLY LINED 24"x18" RETURN AIR ELBOW TO THE TOP OF VERTICAL SOUND TRAP. ALL DIMENSIONS SHOWN ARE CLEAR INNER DIMENSIONS.
10. CONNECT SOUND TRAP TO RETURN AIR GRILLE AS SHOWN. CONNECT INTERNALLY LINED RETURN AIR ELBOW TO SOUND TRAP AS SHOWN. INTERNALLY LINED RETURN ELBOW TO OPEN UPWARDS. ALL DIMENSIONS SHOWN ARE CLEAR INNER DIMENSIONS.
11. SUPPLY AIR DUCT DOWN TO LEVEL BELOW. PROVIDE FIRE DAMPER AT FLOOR PENETRATION. SEE M-102A FOR DUCTWORK CONTINUATION.
12. 36"x36" INTERNALLY LINED RETURN AIR DUCT TO ROUTE DOWN THRU SLAB. PROVIDE FIRE DAMPER AT SLAB PENETRATION. INSTALL VERTICAL SOUND TRAP ABOVE INTERNALLY LINED RETURN AIR DUCT. INSTALL INTERNALLY LINED RETURN AIR ELBOW TO TOP OF VERTICAL SOUND TRAP. ALL DIMENSIONS SHOWN ARE CLEAR INNER DIMENSIONS.
13. RETURN AIR DUCT DOWN TO LEVEL BELOW. PROVIDE FIRE DAMPER AT FLOOR PENETRATION. SEE M-102A FOR DUCTWORK CONTINUATION.
14. SUPPLY AIR DUCT DOWN TO LEVEL BELOW. PROVIDE FIRE DAMPER AT SLAB PENETRATION. SEE M-101B FOR CONTINUATION
15. CHSR AND HWSR PIPING UP FROM LEVEL BELOW. SEE M-101B FOR CONTINUATION.
16. EXPOSED DUCTWORK SHALL BE DOUBLE WALL. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.



2 3RD FLOOR ATHLETICS ENLARGED MECHANICAL ROOM (1650.1)
SCALE: 3/16" = 1'-0"



1 2ND FLOOR ATHLETICS ENLARGED MECHANICAL ROOM (2500)
SCALE: 3/16" = 1'-0"

Plot Stamp:
1/7/2026 8:37:57 PM

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Galena Park ISD

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

ENLARGED MECHANICAL PLAN

M-207

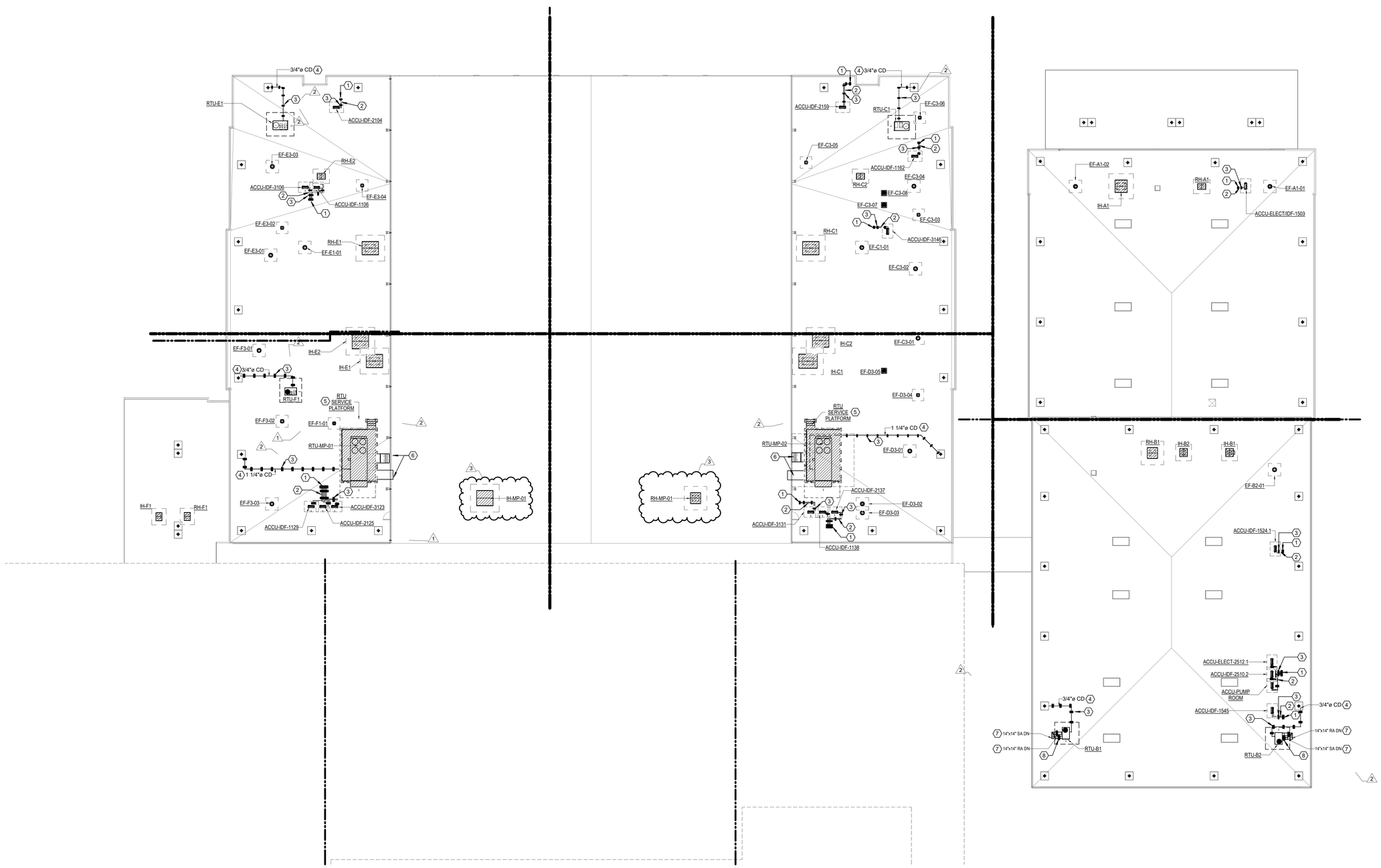
0"
1"

MECHANICAL ROOF PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN
M-301

FOR BLUEBEAM LABELING/OCR:

MECHANICAL KEYED NOTES:

1. PROVIDE STAINLESS STEEL HOODED CURB AT ROOF PENETRATION. REFER TO ARCHITECTURAL DRAWING.
2. ALL EXPOSED AND OUTDOOR LIQUID AND SUCTION LINES SHALL BE WRAPPED WITH ALUMINUM JACKETING.
3. PROVIDE PORTABLE PIPE SUPPORTS FOR PIPING IN MAX. HORIZONTAL SPACING OF 5'-0".
4. ROUTE CONDENSATE DRAIN LINE SIZED AS SHOWN TO NEAREST ROOF DRAIN.
5. CUSTOM ELEVATED MODULAR SERVICE PLATFORM MANUFACTURED BY PHP SYSTEMS DESIGN AND INSTALLED BY THE MECHANICAL CONTRACTOR. REFER TO SPECIFICATION 23 05 29, 2.13 ELEVATED MODULAR SERVICE PLATFORM WITH STAIRS FOR FURTHER REQUIREMENTS
6. FOR RTU DUCTWORK, REFER TO M-205
7. ROUTE SUPPLY AND RETURN AIR DUCTWORK DOWN THRU ROOF. FOR CONTINUATION, SEE M-103B.
8. PROVIDE PORTABLE DUCT SUPPORTS AT MAX 5' INTERVALS.



1 MECHANICAL ROOF PLAN
SCALE: 1" = 20'-0"

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1000 Keene St.
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KEY PLAN
NORTH: PLAN TRUE

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LEAF ENGINEERS
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DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

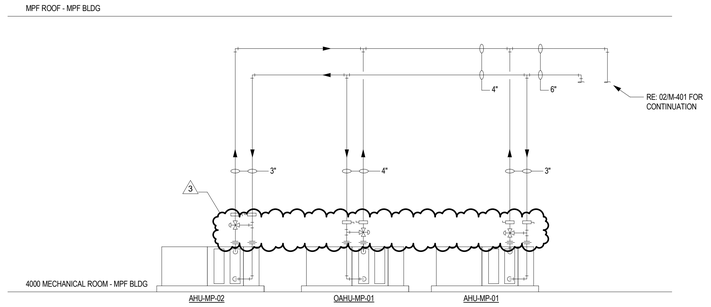
MECHANICAL ROOF PLAN - NEW GYM & MULTIPURPOSE FACILITY OVERALL FLOOR PLAN

M-301

Plot Stamp:
1/7/2026 8:38:04 PM

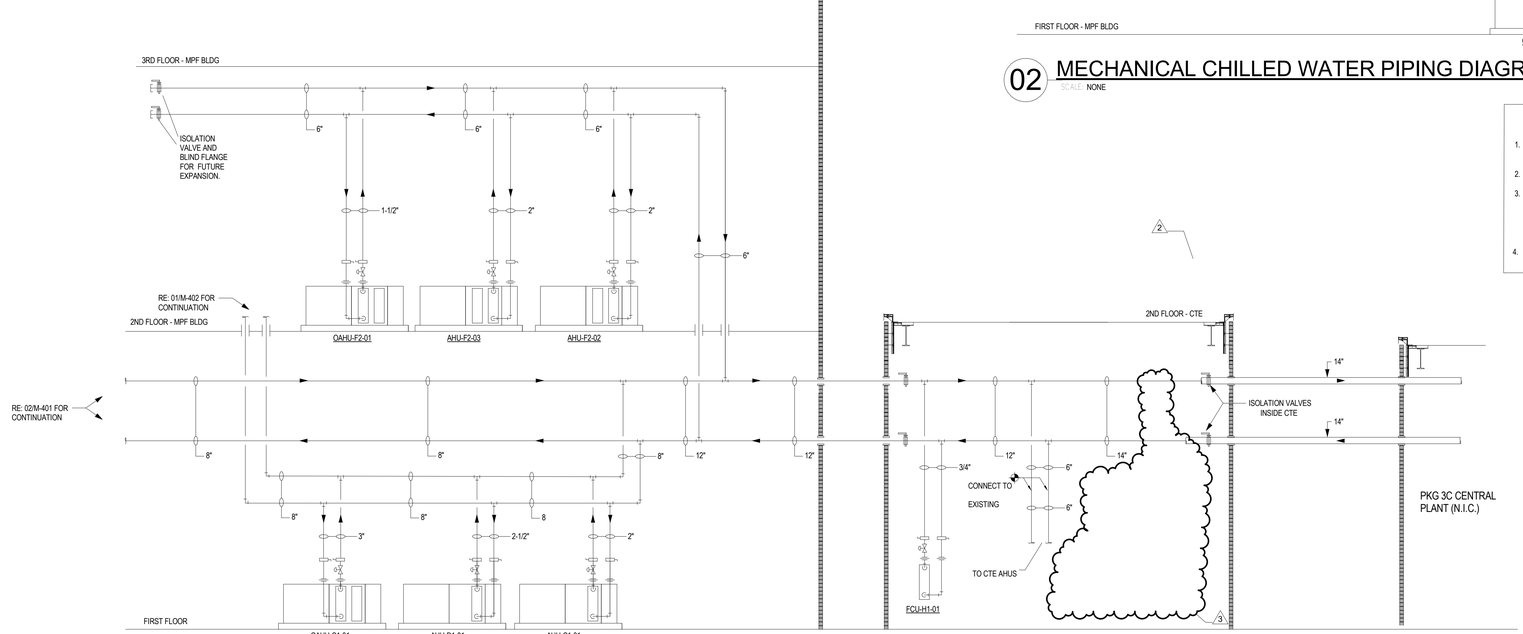
MECHANICAL PIPING DIAGRAM
M-401
FOR BLUEBEAM LABELING/OCR:

0"
1"



03 MECHANICAL CHILLED WATER PIPING DIAGRAM
SCALE: NONE

02 MECHANICAL CHILLED WATER PIPING DIAGRAM
SCALE: NONE



01 MECHANICAL CHILLED WATER PIPING DIAGRAM
SCALE: NONE

NOTES:

1. CONTRACTOR TO VERIFY STACKED COIL CONNECTIONS AND PROVIDE ADDITIONAL VALVES AS REQUIRED. DRAWING IS DIAGRAMMATIC AND DOES NOT INDICATE ALL REQUIRED VALVES.
2. CONTRACTOR TO LOCATE VALVES WITHIN 18" OF CEILING FOR SUSPENDED UNITS.
3. PROVIDE ENGRAVED LABEL (⅛" BLACK LETTERING ON WHITE BACKGROUND) ATTACHED TO CEILING GRID LABELED "VL" TO INDICATE CHW/HW PIPING ISOLATION VALVE LOCATIONS ABOVE CEILING. LABEL SHALL BE PLACED DIRECTLY BELOW VALVE LOCATION. IN ADDITION, PROVIDE WALL MOUNTED LAMINATED FLOOR PLAN IN CENTRAL PLANT SHOWING VALVE LOCATIONS FOR ENTIRE FLOOR. PROVIDE ONE FLOOR PER SHEET.
4. ALL EXPOSED INTERIOR PIPING SHALL BE PAINTED. REFER TO SPECIFICATIONS.

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Galena Park ISD
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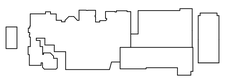


KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
GALENA PARK ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

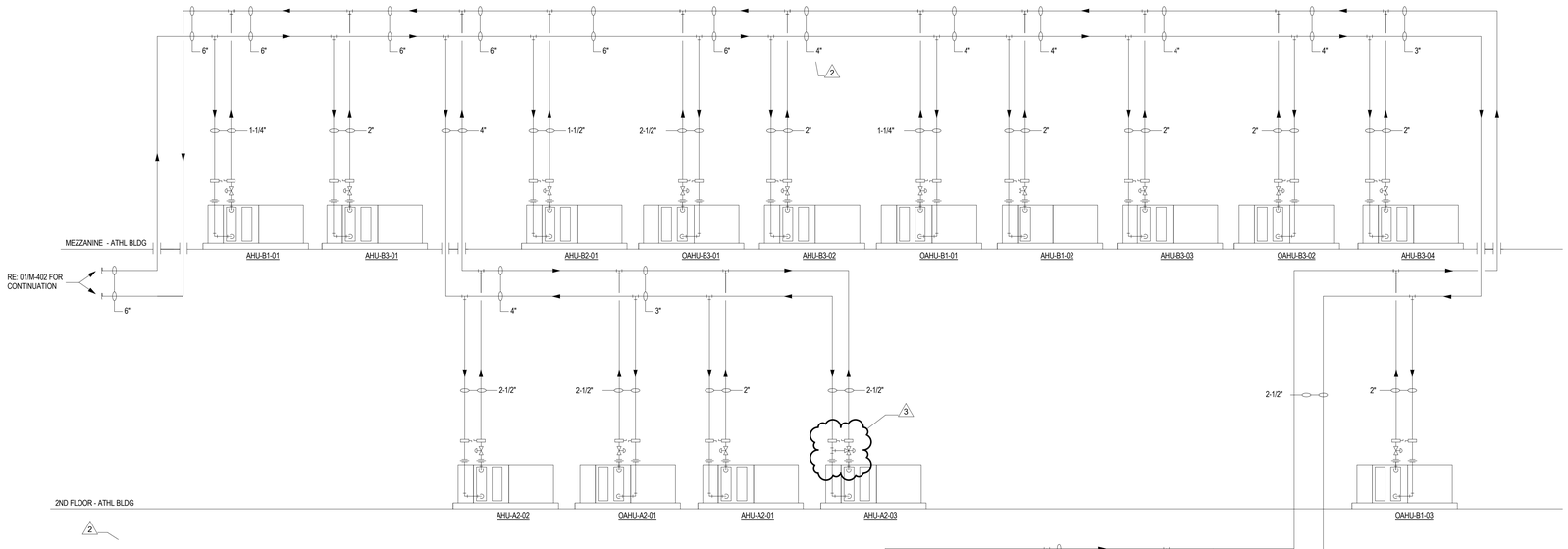
1
MECHANICAL PIPING DIAGRAM

M-401

Plot Stamp:
1/7/2026 8:38:04 PM

MECHANICAL PIPING DIAGRAM
M-402
FOR BLUEBEAM LABELING/OCR:

0"
1"

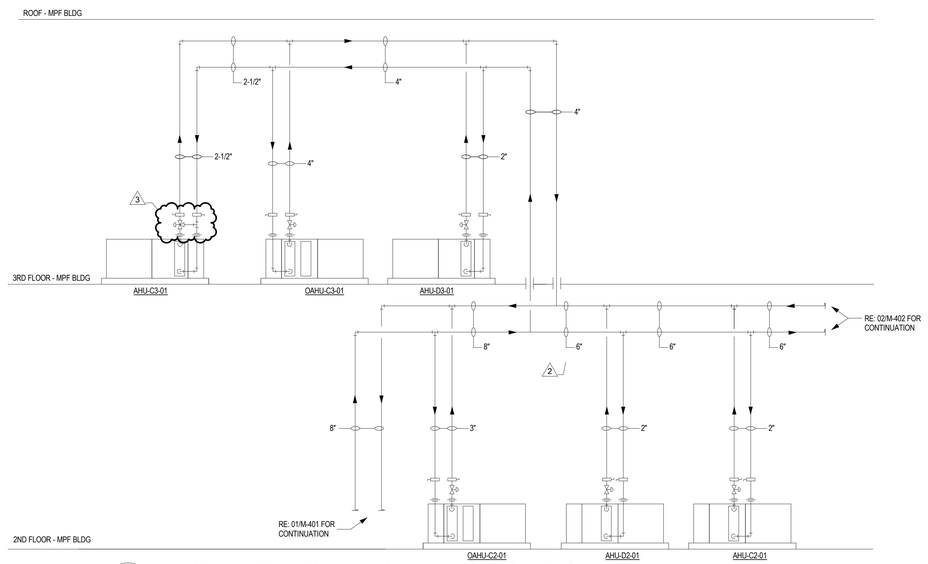


NOTES:

1. CONTRACTOR TO VERIFY STACKED COIL CONNECTIONS AND PROVIDE ADDITIONAL VALVES AS REQUIRED. DRAWING IS DIAGRAMMATIC AND DOES NOT INDICATE ALL REQUIRED VALVES.
2. CONTRACTOR TO LOCATE VALVES WITHIN 18" OF CEILING FOR SUSPENDED UNITS.
3. PROVIDE ENGRAVED LABEL (¼" BLACK LETTERING ON WHITE BACKGROUND) ATTACHED TO CEILING GRID LABELED "HL" TO INDICATE CHW/HW PIPING ISOLATION VALVE LOCATIONS ABOVE CEILING. LABEL SHALL BE PLACED DIRECTLY BELOW VALVE LOCATION. IN ADDITION, PROVIDE WALL MOUNTED LAMINATED FLOOR PLAN IN CENTRAL PLANT SHOWING VALVE LOCATIONS FOR ENTIRE FLOOR. PROVIDE ONE FLOOR PER SHEET.
4. ALL EXPOSED INTERIOR PIPING SHALL BE PAINTED. REFER TO SPECIFICATIONS.

02 MECHANICAL CHILLED WATER PIPING DIAGRAM

SCALE: NONE



01 MECHANICAL CHILLED WATER PIPING DIAGRAM

SCALE: NONE

Plot Stamp:
1/7/2026 8:38:04 PM

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TX FIRM: BR 1608
HOUSTON, TX
713-366-0608

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

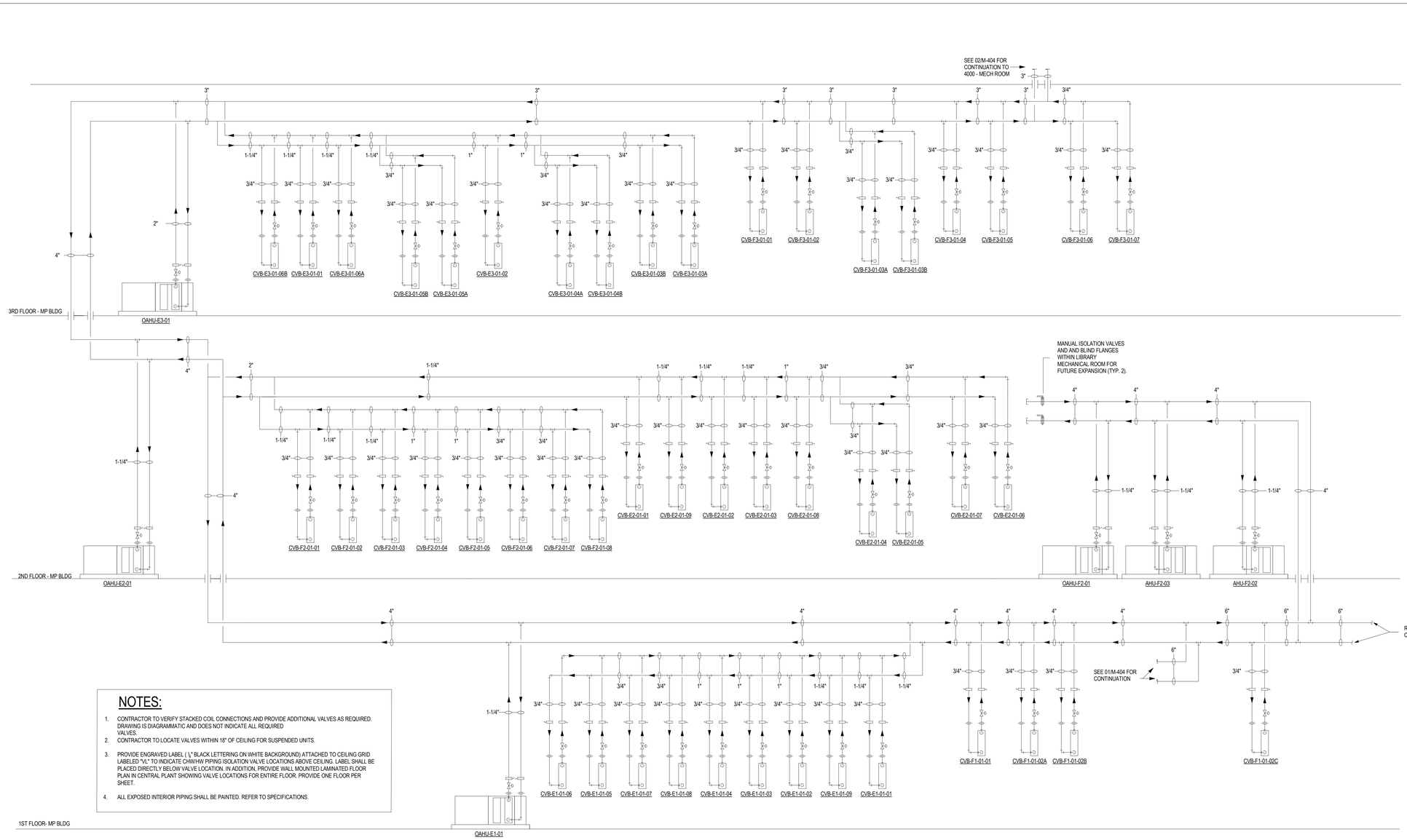
CHECKED BY: MP
DRAWN BY: CT

1 **MECHANICAL PIPING DIAGRAM**

M-402

MECHANICAL PIPING DIAGRAM
M-403
FOR BLUEBEAM LABELING/OCR:

0"
1"



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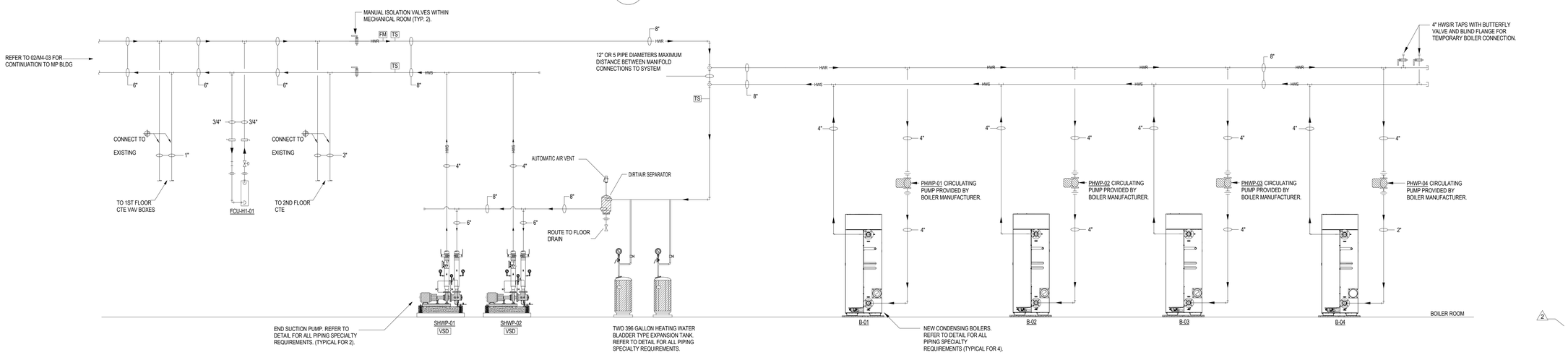
02 MECHANICAL HEATING WATER PIPING DIAGRAM

SCALE: NONE



01 MECHANICAL HEATING WATER CENTRAL PLANT PIPING DIAGRAM

SCALE: NONE

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ISSUE FOR PROPOSAL

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NORTH: PLAN = TRUE

STATE OF TEXAS
MITAL J. PATEL
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December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19

CHECKED BY: MP
DRAWN BY: CT

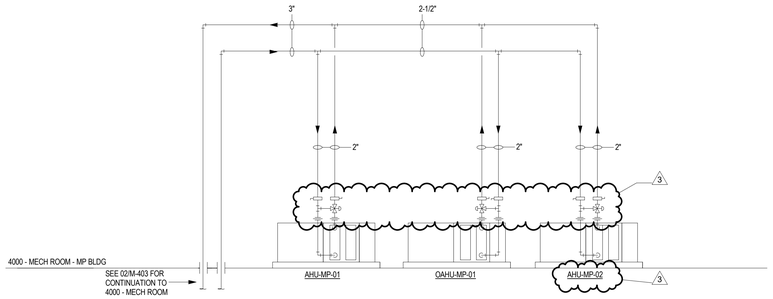
MECHANICAL PIPING DIAGRAM

M-403

Plot Stamp:
1/7/2026 8:38:04 PM

MECHANICAL PIPING DIAGRAM
M-404
FOR BLUEBEAM LABELING/OCR:

0"
1"



02 MECHANICAL HEATING WATER PIPING DIAGRAM
SCALE: NONE

NOTES:

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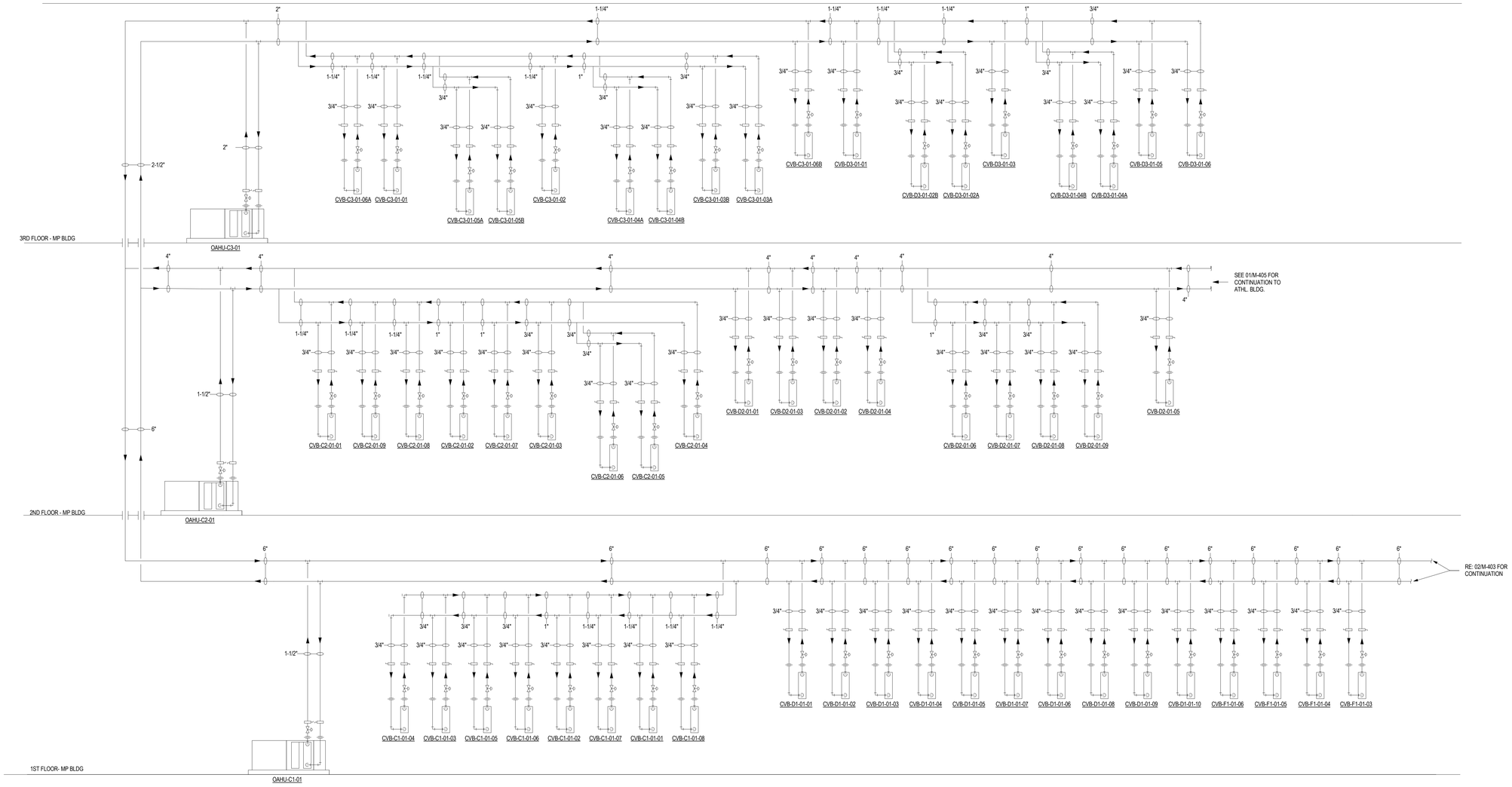

01 MECHANICAL HEATING WATER PIPING DIAGRAM
SCALE: NONE

2

Plot Stamp:
1/7/2026 8:38:04 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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CLIENT	
GALENA PARK ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

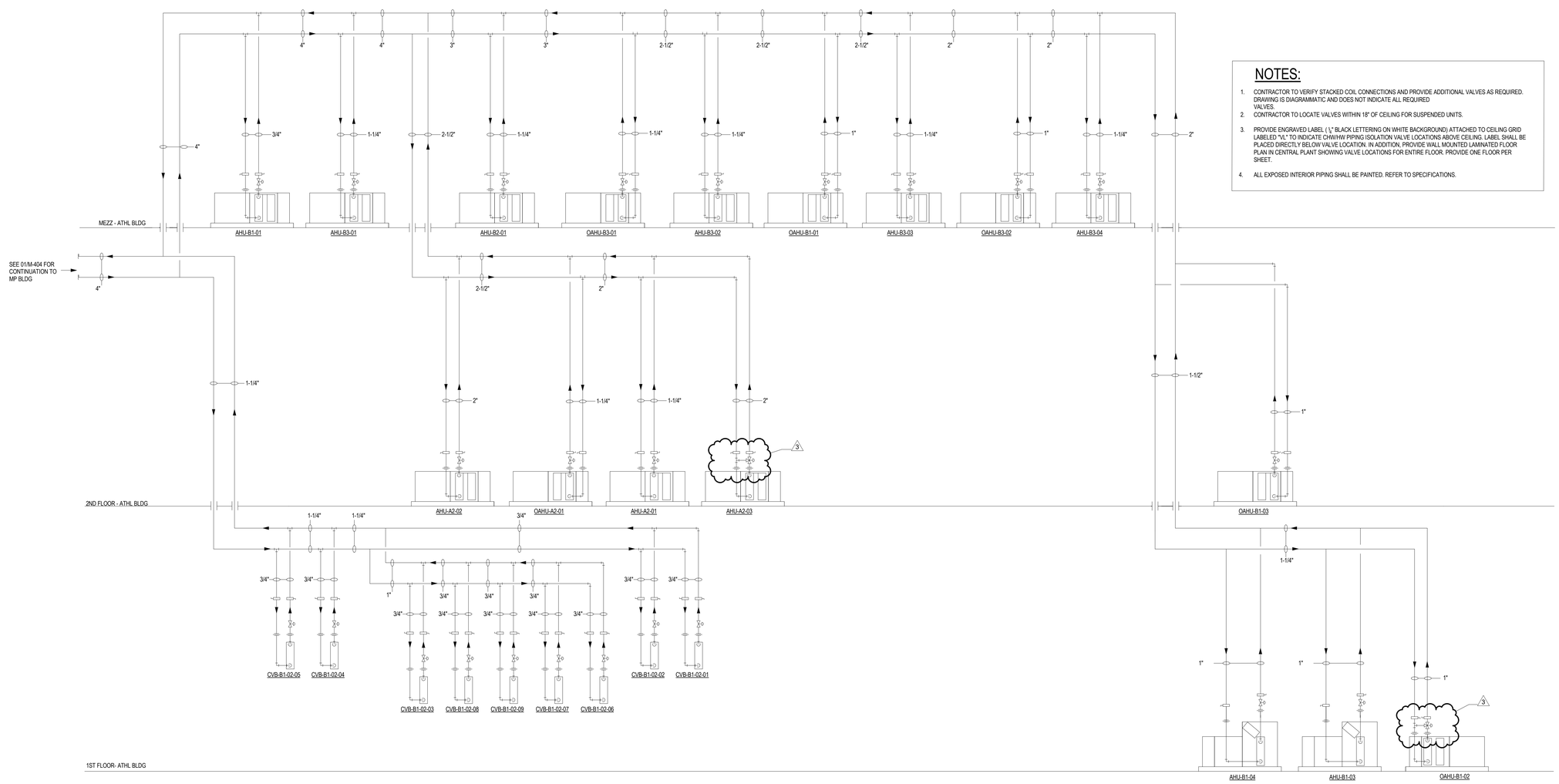
CHECKED BY: MP
DRAWN BY: CT

MECHANICAL PIPING DIAGRAM

M-404

MECHANICAL PIPING DIAGRAM
M-405
FOR BLUEBEAM LABELING/OCR:

0"
1"



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01 MECHANICAL HEATING WATER PIPING DIAGRAM
SCALE: NONE

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CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

MECHANICAL PIPING DIAGRAM

M-405

Plot Stamp:
1/7/2026 8:38:05 PM

MECHANICAL SCHEDULES
M-501
FOR BLUEBEAM LABELING/OCR:

0"
1"

CONDENSING BOILER SCHEDULE

DESIGNATION	TYPE	LOCATION	NOTES	BURNER FUEL	MIN. OUTPUT (BTUH)	MIN. EFFICIENCY	FUEL CONSUMPTION (BTUH)	MANUFACTURER	MODEL NUMBER	GPM	E.W.T. (°F)	L.W.T. (°F)	FLUE SIZE (DIA.)	DIMENSIONS (L x W x H)	WEIGHT (LBS)	BOILER ELECTRICAL INFORMATION		CIRCULATING PUMP ELECTRICAL INFORMATION			
																MOCP	VOLT / Ø / HZ	DESIGNATION	MAX H.P.	FLA	VOLT / Ø / HZ
B-01	CONDENSING	CTE MECH ROOM	1-12	NAT. GAS	3,748,000	94%	4,000,000	CAMUS	AVENGER	187	140°F	180°F	10	44 x 35 x 99	2,700	30	208 / 3 / 60	PHWP-01	2	9.7	208 / 3 / 60
B-02	CONDENSING	CTE MECH ROOM	1-12	NAT. GAS	3,748,000	94%	4,000,000	CAMUS	AVENGER	187	140°F	180°F	10	44 x 35 x 99	2,700	30	208 / 3 / 60	PHWP-02	2	9.7	208 / 3 / 60
B-03	CONDENSING	CTE MECH ROOM	1-12	NAT. GAS	3,748,000	94%	4,000,000	CAMUS	AVENGER	187	140°F	180°F	10	44 x 35 x 99	2,700	30	208 / 3 / 60	PHWP-03	2	9.7	208 / 3 / 60
B-04	CONDENSING	CTE MECH ROOM	1-12	NAT. GAS	3,748,000	94%	4,000,000	CAMUS	AVENGER	187	140°F	180°F	10	44 x 35 x 99	2,700	30	208 / 3 / 60	PHWP-04	2	9.7	208 / 3 / 60

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
2. PROVIDE AUXILIARY PUMP AS REQUIRED BY MANUFACTURER TO CIRCULATE WATER AT BYPASS CONDITIONS. REFER TO ELECTRICAL DRAWINGS.
3. PROVIDE CATEGORY IV FLUE PIPE, INNER PIPE OF AL29-4C AND OUTER PIPE OF 430 STAINLESS STEEL.
4. PROVIDE WITH A CONDENSATE NEUTRALIZATION KIT WITH SCHEDULE 8-CPVC CONDENSATE PIPING.
5. CONDENSING BOILER HEAT EXCHANGER SHALL BE OF STAINLESS STEEL. COPPER HEAT EXCHANGERS ARE NOT ACCEPTABLE: REFER TO SPECIFICATION.
6. BOILER MANUFACTURER SHALL PROVIDE CONTROLS FOR BOILER SEQUENCING AND CONTROL. BAS SHALL INTERFACE TO BOILER CONTROL PANEL.
7. MANUFACTURER SHALL PROVIDE BACNET INTERFACE CARD ANY ACCESSORIES REQUIRED TO FACILITATE 2-WAY COMMUNICATION WITH THE BAS CONTRACTOR'S SYSTEM. THIS INCLUDES, BUT IS NOT LIMITED TO, FURNISHING, INSTALLING AND PROGRAMMING OF COMMUNICATION CARD (i.e. BACnet)
8. BOILER TO ENABLE RESPECTIVE CIRCULATING PUMP. PROVIDE SEPARATE POINT CONNECTION TO BOILER AND CIRCULATING PUMP. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL STARTER AND DISCONNECT WITH HOA AS REQUIRED FOR BOILER AND CIRCULATING PUMP; COORDINATE WITH BOILER MANUFACTURER.
9. FLUE PIPING SHALL BE PROVIDED AND SUBMITTED BY BOILER DISTRIBUTOR AFTER BOILER SUBMITTAL HAS BEEN APPROVED BY ENGINEER. FLUE PIPE SHALL NOT BE SUBMITTED BY ANY OTHER PARTY OTHER THAN THE BOILER SALES REPRESENTATIVE AWARDED THE PROJECT. FLUE PIPE SHALL BE INSTALLED BY MECHANICAL CONTRACTOR.
10. BOILER REPRESENTATIVE IS RESPONSIBLE FOR PROVIDING THE GAS REGULATORS FOR EACH BOILER TO PROVIDE PROPER GAS FLOW REQUIRED. REGULATORS TO BE INSTALLED AND VENTED BY PLUMBING CONTRACTOR AS REQUIRED.
11. BOILER REPRESENTATIVE IS TO COORDINATE WITH CONTROLS CONTRACTOR TO INSTALL LOW VOLTAGE WIRING FOR BACnet, CASCADE, BMS AND HW SYSTEM LOOP SENSOR, LOW WATER CUTOFF FLOW SWITCH AS NEEDED.
12. PROVIDE FIRE-TUBE BOILER.

HYDRONIC PUMP SCHEDULE

DESIGNATION	SERVICE	TYPE	NOTES	GPM	HEAD (FT. H20)	EFFICIENCY	RPM (MAX.)	MOTOR B.H.P.	MOTOR H.P.	VOLTS / Ø / HZ	MANUFACTURER	MODEL NUMBER	MINIMUM NPSHR (FT.)
SHWP-01	BUILDING HW LOOP	HORIZONTAL BASE-MOUNTED END SUCTION	1-6	410	120'	76.6%	1,800	16.2	25	460 / 3 / 60	PENTAIRE / AURORA	3800 SERIES	9.37
SHWP-02	BUILDING HW LOOP	HORIZONTAL BASE-MOUNTED END SUCTION	1-6	410	120'	76.6%	1,800	16.2	25	460 / 3 / 60	PENTAIRE / AURORA	3800 SERIES	9.37

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
2. IMPELLER SHALL NOT EXCEED 85% OF CUTWATER DIAMETER.
3. PUMP CURVE SHALL HAVE A MINIMUM OF 8 PSI DIFFERENTIAL BETWEEN 65% OF DESIGN FLOW AND 100% OF DESIGN FLOW.
4. PROVIDE VARIABLE FREQUENCY DRIVE FOR VARIABLE FLOW OPERATION.
5. PUMPS ARE TO BE SELECTED FOR PARALLEL OPERATION.
6. PUMPS SHALL HAVE RE-GREASEABLE BEARINGS WITH ALEMITE FITTINGS; SEALED BEARINGS ARE UNACCEPTABLE.

MODULAR INDOOR CENTRAL-STATION AIR-HANDLING UNIT SCHEDULE

DESIGNATION	SERVICE	TYPE	ARRANGEMENT	DISCHARGE ARRANGEMENT	MANUFACTURER	MODEL	DIMENSIONS (L x W x H) INCHES	WEIGHT (LBS.)	SEE NOTE	BLOWER DATA								COOLING COIL DATA									HEATING COIL DATA							
										TOTAL CFM	OUTSIDE AIR CFM		EST. EXT. SP. (IN. WG.)	MAX. ALLOWABLE TOTAL BRAKE H.P.	MOTOR QTY / MAX. MOTOR H.P. (EACH)	VARIABLE FREQUENCY DRIVE H.P.	TYPE	VOLTAGE	CFM OVER COIL	MAX. FACE VELOCITY (FPM)	SENSIBLE BTUH	TOTAL BTUH	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	GPM	EWT (°F DB)	LWT (°F DB)	CFM OVER COIL	MAX. FACE VELOCITY (FPM)	TOTAL BTUH	EAT (°F DB)	LAT (°F DB)	GPM	EWT (°F DB)	LWT (°F DB)
											MAX	MIN																					
AHU-C1-01	1st FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	102 x 81 x 61	2,900	1-11	8,880	3,500	1,050	1.2	5.60	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	8,880	500	220,579	288,209	78°F	65°F	55°F	36	42°F	58°F	-	-	-	-	-	-
AHU-D1-01	1st FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	105 x 81 x 61	2,900	1-11	10,370	3,200	1,000	1.2	6.90	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	10,370	500	257,591	336,569	78°F	65°F	55°F	42	42°F	58°F	-	-	-	-	-	-
AHU-E1-01	1st FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	105 x 81 x 61	2,900	1-11	9,625	2,900	1,200	1.2	6.40	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	9,625	500	239,085	312,389	78°F	65°F	55°F	39	42°F	58°F	-	-	-	-	-	-
AHU-F1-01	1st FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	102 x 81 x 51	2,600	1-11	7,885	1,500	450	1.2	5.20	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	7,885	500	195,863	255,916	78°F	65°F	55°F	32	42°F	58°F	-	-	-	-	-	-
AHU-C2-01	2nd FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	102 x 81 x 51	2,600	1-11	8,715	2,900	1,000	1.2	6.10	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	8,715	500	216,481	282,854	78°F	65°F	55°F	35	42°F	58°F	-	-	-	-	-	-
AHU-D2-01	2nd FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	105 x 81 x 61	2,900	1-11	9,765	3,900	1,170	1.2	6.10	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	9,765	500	242,563	316,933	78°F	65°F	55°F	40	42°F	58°F	-	-	-	-	-	-
AHU-E2-01	2nd FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	102 x 81 x 51	2,600	1-11	8,640	2,600	780	1.2	6.10	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	8,640	500	214,618	280,420	78°F	65°F	55°F	35	42°F	58°F	-	-	-	-	-	-
AHU-F2-01	2nd FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	102 x 81 x 61	2,900	1-11	9,490	3,300	1,000	1.2	6.00	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	9,490	500	235,732	308,007	78°F	65°F	55°F	39	42°F	58°F	-	-	-	-	-	-
AHU-C3-01	3rd FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	105 x 81 x 61	2,900	1-11	10,455	6,940	6,940	1.2	7.40	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	10,455	500	259,702	339,327	78°F	65°F	55°F	42	42°F	58°F	-	-	-	-	-	-
AHU-D3-01	3rd FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	105 x 81 x 61	2,900	1-11	9,660	3,360	3,360	1.2	6.10	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	9,660	500	239,954	313,525	78°F	65°F	55°F	39	42°F	58°F	-	-	-	-	-	-
AHU-E3-01	3rd FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	105 x 81 x 61	2,900	1-11	10,455	6,900	6,900	1.2	7.40	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	10,455	500	259,702	339,327	78°F	65°F	55°F	42	42°F	58°F	-	-	-	-	-	-
AHU-F3-01	3rd FL - CLASSROOMS	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	105 x 81 x 61	2,900	1-11	9,360	3,300	2,160	1.2	6.10	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	9,360	500	232,502	303,788	78°F	65°F	55°F	38	42°F	58°F	-	-	-	-	-	-
AHU-F2-02	LIBRARY	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	132 x 74 x 47	2,800	1-12	6,810	1,100	330	1.0	5.40	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	6,810	500	169,160	221,025	78°F	65°F	55°F	28	42°F	58°F	6,810	750	183,870	60°F	85°F	9	180°F	140°F
AHU-F2-03	MAIN STREET	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	131 x 69 x 47	2,600	1-12	5,980	600	180	1.2	5.30	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	5,980	500	148,543	194,087	78°F	65°F	55°F	24	42°F	58°F	5,980	750	161,460	60°F	85°F	8	180°F	140°F
AHU-A2-01	LOBBY	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	131 x 69 x 47	2,600	1-12	5,610	1,400	1,400	1.0	4.30	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	5,610	500	139,352	182,078	78°F	65°F	55°F	23	42°F	58°F	5,610	750	151,470	60°F	85°F	8	180°F	140°F
AHU-A2-02	MAIN GYM	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	140 x 106 x 61	4,700	1-12	14,500	2,500	750	1.2	10.80	2 @7.5 hp	15	DIRECT DRIVE - PF	460 / 3 / 60	14,500	500	360,180	470,612	78°F	65°F	55°F	59	42°F	58°F	14,500	750	391,500	60°F	85°F	20	180°F	140°F
AHU-A2-03	MAIN GYM	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	140 x 106 x 61	4,700	1-12	14,500	2,500	750	1.2	10.80	2 @7.5 hp	15	DIRECT DRIVE - PF	460 / 3 / 60	14,500	500	360,180	470,612	78°F	65°F	55°F	59	42°F	58°F	14,500	750	391,500	60°F	85°F	20	180°F	140°F
AHU-B1-01	WEIGHT ROOM	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	142 x 48 x 37	1,800	1-13	2,280	900	270	1.5	2.00	2 hp	2	DIRECT DRIVE - PF	460 / 3 / 60	2,280	500	56,635	74,000	78°F	65°F	55°F	9	42°F	58°F	2,280	750	61,560	60°F	85°F	3	180°F	140°F
AHU-B1-02	TEAMS ROOM	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	117 x 81 x 51	2,900	1-11,13	8,555	1,600	480	1.8	7.10	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	8,555	500	212,506	277,661	78°F	65°F	55°F	35	42°F	58°F	-	-	-	-	-	-
AHU-B1-03	GIRLS LOCKERS ROOMS	SINGLE ZONE VAV	VERTICAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	96 x 69 x 74	2,200	1-4, 6-12, 19	4,320	2,810	2,810	1.0	3.00	3 hp	-	DIRECT DRIVE - PF	460 / 3 / 60	4,320	500	107,309	140,210	78°F	65°F	55°F	18	42°F	58°F	4,320	750	116,640	60°F	85°F	6	180°F	140°F
AHU-B1-04	BOYS LOCKERS ROOMS	SINGLE ZONE VAV	VERTICAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	93 x 56 x 72	1,900	1-4, 6-12, 19	3,435	2,410	2,410	1.0	2.10	3 hp	-	DIRECT DRIVE - PF	460 / 3 / 60	3,435	500	85,325	111,486	78°F	65°F	55°F	14	42°F	58°F	3,435	750	92,745	60°F	85°F	5	180°F	140°F
AHU-B2-01	TEAM LOUNGE	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	FRONT DISCHARGE	CARRIER	39MN	225 x 69 x 40	2,200	1-12	4,865	1,000	1,000	1.0	3.40	5 hp	5	DIRECT DRIVE - PF	460 / 3 / 60	4,865	500	120,647	157,898	78°F	65°F	55°F	20	42°F	58°F	4,865	750	131,355	60°F	85°F	7	180°F	140°F
AHU-B3-01	GYM A	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	134 x 81 x 61	3,400	1-12	9,000	1,900	570	1.0	4.80	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	9,000	500	223,560	292,104	78°F	65°F	55°F	37	42°F	58°F	9,000	750	243,000	60°F	85°F	12	180°F	140°F
AHU-B3-02	GYM A	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	134 x 81 x 61	3,400	1-12	9,000	1,900	570	1.0	5.70	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	9,000	500	223,560	292,104	78°F	65°F	55°F	37	42°F	58°F	9,000	750	243,000	60°F	85°F	12	180°F	140°F
AHU-B3-03	GYM B	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	134 x 81 x 51	3,100	1-12	7,500	1,600	480	1.0	4.80	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	7,500	500	186,300	243,420	78°F	65°F	55°F	30	42°F	58°F	7,500	750	202,500	60°F	85°F	10	180°F	140°F
AHU-B3-04	GYM B	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	134 x 81 x 51	3,100	1-12	7,500	1,600	480	1.0	4.80	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	7,500	500	186,300	243,420	78°F	65°F	55°F	30	42°F	58°F	7,500	750	202,500	60°F	85°F	10	180°F	140°F
AHU-MP-01	MULTIPURPOSE	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	151 x 111 x 78	6,300	1-12	19,000	5,500	1,650	1.2	13.00	2 @ 7.5 hp	15	DIRECT DRIVE - PF	460 / 3 / 60	19,000	500	471,960	616,664	78°F	65°F	55°F	77	42°F	58°F	19,000	750	513,000	60°F	85°F	26	180°F	140°F
AHU-MP-02	MULTIPURPOSE	SINGLE ZONE VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	151 x 111 x 78	6,300	1-12	19,000	5,500	1,650	1.2	13.00	2 @ 7.5 hp	15	DIRECT DRIVE - PF	460 / 3 / 60	19,000	500	471,960	616,664	78°F	65°F	55°F	77	42°F	58°F	19,000	750	513,000	60°F	85°F	26	180°F	140°F
OAHU-C1-01	AHU-C1-01 & AHU-D1-01	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	150 x 74 x 47	3,300	1-11, 13-18	6,700	6,700	2,010	1.2	6.60	2 @ 5 hp	10	DIRECT DRIVE - PF	460 / 3 / 60	6,700	500	296,676	608,306	96°F	80°F	55°F	76	42°F	58°F	6,700	750	253,260	20°F	55°F	13	180°F	140°F
OAHU-E1-01	AHU-E1-01, AHU-F1-01, TEMP ADMIN	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	145 x 74 x 47	3,100	1-11, 13-18	5,950	5,950	1,785	1.5	5.70	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	5,950	500	263,466	540,212	96°F	80°F	55°F	68	42°F	58°F	5,950	750	224,910	20°F	55°F	11	180°F	140°F
OAHU-C2-01	AHU-C2-01 & AHU-D2-01	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	146 x 81 x 51	3,500	1-11, 13-18	6,800	6,800	2,040	1.0	5.50	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	6,800	500	301,104	617,386	96°F	80°F	55°F	77	42°F	58°F	6,800	750	257,040	20°F	55°F	13	180°F	140°F
OAHU-E2-01	AHU-E2-01 & AHU-F2-01	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	151 x 69 x 47	2,900	1-11, 13-18	5,900	5,900	1,770	1.0	3.60	5 hp	5	DIRECT DRIVE - PF	460 / 3 / 60	5,900	500	261,252	535,673	96°F	80°F	55°F	67	42°F	58°F	5,900	750	223,020	20°F	55°F	11	180°F	140°F
OAHU-F2-01	AHU-F2-02 & AHU-F2-03	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	142 x 48 x 37	1,700	1-11, 13-18	1,700	1,700	510	0.8	1.50	1.5 hp	1 1/2	DIRECT DRIVE - PF	460 / 3 / 60	1,700	500	75,276	154,346	96°F	80°F	55°F	19	42°F	58°F	1,700	750	64,260	20°F	55°F	3	180°F	140°F
OAHU-A2-01	AHU-A2-01, AHU-A2-02, AHU-A2-03	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	147 x 74 x 47	3,300	1-11, 13-18	6,400	6,400	1,920	0.8	5.30	2 @ 3 hp	7 1/2	DIRECT DRIVE - PF	460 / 3 / 60	6,400	500	283,392	581,069	96°F	80°F	55°F	73	42°F	58°F	6,400	750	241,920	20°F	55°F	12	180°F	140°F
OAHU-B1-01	AHU-B1-01 & AHU-B1-02	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	147 x 48 x 37	1,900	1-11, 13-18	2,500	2,500	750	0.8	1.80	2 hp	5	DIRECT DRIVE - PF	460 / 3 / 60	2,500	500	110,700	226,980	96°F	80°F	55°F	28	42°F	58°F	2,500	750	94,500	20°F	55°F	5	180°F	140°F
OAHU-B3-01	AHU-B2-01, AHU-B3-01, AHU-B3-02	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	155 x 47 x 66	2,900	1-11, 13-18	4,800	4,800	1,440	0.8	3.30	5 hp	5	DIRECT DRIVE - PF	460 / 3 / 60	4,800	500	212,544	435,802	96°F	80°F	55°F	54	42°F	58°F	4,800	750	181,440	20°F	55°F	9	180°F	140°F
OAHU-B3-02	AHU-B3-03 & AHU-B3-04	SINGLE DUCT VAV	HORIZONTAL DRAW-THRU	TOP DISCHARGE	CARRIER	39MN	146 x 41 x 60	2,300	1-11, 13-18	3,200	3,200	960	0.8	2.50	3 hp	3	DIRECT DRIVE - PF	460 / 3 / 60	3,200	500	141,696	290,534	96°F	80°F	55°F	36	42°F	58°F	3,200	750	120,960	20°F	55°F	6	180°F	140°F

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
2. ESTIMATED EXTERNAL STATIC PRESSURE INCLUDES LOSSES THROUGH DUCTWORK, AIR DEVICES, SOUND ATTENUATORS, ETC.
3. AIR HANDLING UNIT INTERNAL STATIC PRESSURE SHALL INCLUDE LOSSES THROUGH COILS, CASING, INTERNAL DAMPERS, AND 0.75" W.G. FOR DIRTY FILTERS.
4. COOLING COILS SHALL HAVE A PRESSURE DROP THROUGH COIL SHALL NOT EXCEED 15 FT. AT SCHEDULED GPM.
5. PROVIDE VARIABLE FREQUENCY DRIVE.
6. FAN CONSTRUCTION SHALL BE MINIMUM AMCA CLASS II.
7. PROVIDE FACTORY MOUNTED AND WIRED EXTERNAL JUNCTION BOXES ON FAN SECTION. J-BOX SHALL ALLOW ELECTRICAL CONTRACTOR TO LAND POWER TO DEVICE WITHOUT PENETRATING THROUGH CABINET. FIELD INSTALLED JUNCTION BOXES ARE NOT ACCEPTABLE.
8. PROVIDE FACTORY MOUNTED SHAFT GROUNDING KIT FOR AIR HANDLING UNIT MOTOR, NO EXCEPTIONS.
9. PROVIDE WITH ANGLED MERV 13 FILTERS.
10. UNITS WITH MULTIPLE FANS AND MOTORS, PROVIDE FACTORY INSTALLED AND WIRED MOTOR OVERLOAD PANEL FOR CONNECTION TO A SINGLE VFD.
11. MANUFACTURER TO PROVIDE UVC LIGHT SECTION DOWNSTREAM OF COOLING COIL TO BE FIELD INSTALLED WITH STAINLESS STEEL DRAIN PAN. PROVIDE WITH ACCESS DOOR KILL SWITCHES FOR THE UVC LIGHT.
12. PROVIDE HOT WATER COIL IN RE-HEAT POSITION.
13. PROVIDE FACTORY MIXING BOX / OUTSIDE AIR PLENUM BOX. REFER TO DRAWINGS FOR OUTSIDE AIR AND RETURN AIR DUCT SIZES.
14. ALL COILS SHALL BE FULLY DIPPED AND BAKED (E-COAT) WITH UV TOP COAT.
15. PROVIDE HOT WATER COIL IN PRE-HEAT POSITION.
16. OUTSIDE AIR UNITS AND AIR HANDLING UNITS WITH MIXED AIR SHALL HAVE STAINLESS STEEL SOLID 20-GAUGE G90 INTERIOR LINING. PROVIDE 20-GAUGE PERFORATED PANELS IN FAN SECTION AND DISCHARGE PLENUM; REFER TO SPECIFICATION
17. MANUFACTURER TO PROVIDE STAINLESS STEEL OUTSIDE AIR DAMPER. ACTUATOR TO BE INSTALLED BY BAS CONTRACTOR.
18. COILS WITH UNTREATED OUTSIDE AIR AND MIXED AIR (COMBINATION UNTREATED OUTSIDE AIR AND RETURN AIR) SHALL HAVE A FACTORY APPLIED, FLEXIBLE, EPOXY POLYMER E-COAT UNIFORMLY APPLIED TO ALL COIL SURFACE AREAS WITHOUT MATERIAL BRIDGING BETWEEN FINS. HUMIDITY AND WATER IMMERSION RESISTANCE SHALL BE UP TO A MINIMUM 1,000 AND 250 HOURS RESPECTIVELY (ASTM D2247-92 AND ASTM D870-92). CORROSION DURABILITY SHALL BE CONFIRMED THROUGH TESTING TO NO LESS THAN 3,000 HOURS SALT SPRAY PER ASTM B117-90. FIELD APPLIED COATINGS WILL NOT BE ACCEPTABLE.
19. PROVIDE UNITS WITH ECM FANS.

Plot Stamp:
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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025

LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

MECHANICAL SCHEDULES

M-501

MECHANICAL SCHEDULES
M-502
FOR BLUEBEAM LABELING/DOCR:

MODULAR INDOOR CENTRAL-STATION OUTSIDE AIR-HANDLING UNIT WITH ENERGY CORE SCHEDULE

DESIGNATION	SERVICE	ARRANGEMENT	MANUFACTURER	MODEL NUMBER	DIMENSIONS (L"xW"xH")	WEIGHT (LBS.)	SEE NOTE	SUPPLY AIR BLOWER DATA									EXHAUST / RELIEF AIR BLOWER DATA								TOTAL ENERGY RECOVERY CORE DATA										COOLING COIL DATA											PRE-HEATING COIL DATA							
								TOTAL SUPPLY CFM	OUTSIDE AIR CFM	MIN OUTSIDE AIR CFM	EST. EXT. SP. (IN. WG.)	MAX. ALLOWABLE TOTAL BRAKE H.P.	MOTOR QTY / MAX. MOTOR HP (EACH)	VARIABLE FREQUENCY DRIVE HP	DRIVE / TYPE	VOLTAGE	CFM	EST. EXT. SP. (IN. WG.)	MAX. ALLOWABLE TOTAL BRAKE H.P.	MOTOR QTY / MAX. MOTOR H.P. (EACH)	VARIABLE FREQUENCY DRIVE H.P.	DRIVE / TYPE	VOLTAGE	OUTDOOR AIR (CFM)	OUTSIDE AIR MAX. FACE VELOCITY (FPM)	OUTSIDE AIR WINTER EAT (°F)	OUTSIDE AIR SUMMER EAT (db/wb) (°F)	OUTSIDE AIR WINTER LAT (db/wb) (°F)	OUTSIDE AIR SUMMER LAT (db/wb) (°F)	EXHAUST AIR (CFM)	EXHAUST / RELIEF AIR MAX. FACE VELOCITY (FPM)	EXHAUST / RELIEF AIR WINTER EAT (db) (°F)	EXHAUST / RELIEF AIR SUMMER EAT (db/wb) (°F)	CFM OVER COIL	MAX. FACE VELOCITY (FPM)	GRAND SENSIBLE BTUH	GRAND TOTAL BTUH	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	GPM	EWT (°F DB)	LWT (°F DB)	CFM OVER COIL	MAX. FACE VELOCITY (FPM)	GRAND TOTAL BTUH	EAT (°F DB)	LAT (°F DB)	GPM	EWT (°F DB)	LWT (°F DB)
OAHU-C1-01	AHU-C3-01 & AHU-D3-01	HORIZONTAL DRAW-THRU	CARRIER	39MN	263" x 88" x 122"	8,900	1-15	10,300	10,300	10,300	0.8	6.2	2 / 5 HP	10	DD - PLENUM FAN	460 / 3 / 60	10,300	1.8	4.4	2 @ 3 HP	7.5	DD - PLENUM FAN	460 / 3 / 60	10,300	500	25°F	95 / 78	55.0 / 48.4	81.9 / 71.6	10,300	500	70°F	76 / 65	10,300	500	458,196	937,269	96.0°	80.0°	55.0°	117	42.0°	58.0°	10,300	500	391,143	20.0°	55.0°	20	180.0°	140.0°
OAHU-E3-01	AHU-E3-01 & AHU-F3-01	HORIZONTAL DRAW-THRU	CARRIER	39MN	263" x 88" x 122"	8,800	1-15	10,200	10,200	10,200	0.8	6.1	2 / 5 HP	10	DD - PLENUM FAN	460 / 3 / 60	9,060	1.8	3.8	2 @ 2 HP	5.0	DD - PLENUM FAN	460 / 3 / 60	10,200	500	25°F	95 / 78	53.3 / 47.4	82.7 / 71.9	9,060	500	70°F	76 / 65	10,200	500	453,747	928,169	96.0°	80.0°	55.0°	116	42.0°	58.0°	10,200	500	387,345	20.0°	55.0°	19	180.0°	140.0°
OAHU-B1-02	AHU-B1-03	VERTICAL DRAW-THRU	CARRIER	39MN	222" x 56" x 80"	4,300	1-15	2,810	2,810	843	0.8	1.8	1 / 2 HP	2	DD - PLENUM FAN	460 / 3 / 60	2,810	1.5	1.2	1 / 1.5 HP	1.5	DD - PLENUM FAN	460 / 3 / 60	2,810	500	25°F	95 / 78	55.8 / 49.7	81.4 / 71.0	2,810	500	70°F	76 / 65	2,810	500	125,003	255,702	96.0°	80.0°	55.0°	32	42.0°	58.0°	2,810	500	106,710	20.0°	55.0°	5	180.0°	140.0°
OAHU-B1-03	AHU-B1-04	VERTICAL DRAW-THRU	CARRIER	39MN	222" x 56" x 80"	4,200	1-15	2,810	2,810	2,410	0.8	1.7	1 / 2 HP	2	DD - PLENUM FAN	460 / 3 / 60	2,410	1.8	1.2	1 / 1.5 HP	1.5	DD - PLENUM FAN	460 / 3 / 60	2,810	500	25°F	95 / 78	56.7 / 50.4	81.1 / 70.7	2,410	500	70°F	76 / 65	2,810	500	125,003	255,702	96.0°	80.0°	55.0°	32	42.0°	58.0°	2,810	500	106,710	20.0°	55.0°	5	180.0°	140.0°
OAHU-MP-01	AHU-MP-01, AHU-MP-02	VERTICAL DRAW-THRU	CARRIER	39MN	273" x 111" x 72"	12,900	1-15	14,600	14,600	4,380	0.8	6.0	2 / 5 hp	10	DD - PLENUM FAN	460 / 3 / 60	13,140	0.8	2.7	2 / 3 HP	7.5	DD - PLENUM FAN	460 / 3 / 60	14,600	500	25°F	95 / 78	53.4 / 47.4	82.6 / 71.9	13,140	500	70°F	76 / 65	14,600	500	649,481	1,328,556	96.0°	80.0°	55.0°	196	42.0°	58.0°	14,600	500	554,435	20.0°	55.0°	28	180.0°	140.0°

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
2. ESTIMATED EXTERNAL STATIC PRESSURE INCLUDES LOSSES THROUGH DUCTWORK, AIR DEVICES, SOUND ATTENUATORS, ETC.
3. AIR HANDLING UNIT INTERNAL STATIC PRESSURE SHALL INCLUDE LOSSES THROUGH COILS, CASING, INTERNAL DAMPERS, AND 0.75" W.G. FOR DIRTY FILTERS.
4. COOLING COILS PRESSURE DROP THROUGH COIL SHALL NOT EXCEED 15 FT. AT SCHEDULED GPM.
5. PROVIDE VARIABLE FREQUENCY DRIVE FOR SUPPLY AND EXHAUST FANS.
6. FAN CONSTRUCTION SHALL BE MINIMUM AMCA CLASS 2.
7. PROVIDE FACTORY MOUNTED AND WIRED EXTERNAL JUNCTION BOXES ON FAN SECTION. J-BOX SHALL ALLOW ELECTRICAL CONTRACTOR TO LAND POWER TO DEVICE WITHOUT PENETRATING THROUGH CABINET. FIELD INSTALLED JUNCTION BOXES ARE NOT ACCEPTABLE.
8. PROVIDE FACTORY MOUNTED SHAFT GROUNDING KIT FOR AIR HANDLING UNIT MOTOR, NO EXCEPTIONS.
9. PROVIDE WITH ANGLED MERV 13 FILTERS.
10. UNITS WITH MULTIPLE FANS AND MOTORS, PROVIDE FACTORY INSTALLED AND WIRED MOTOR OVERLOAD PANEL FOR CONNECTION TO A SINGLE VFD.
11. ALL COILS SHALL BE FULLY DIPPED AND BAKED (E-COAT) WITH UV TOP COAT.
12. PROVIDE TWO-POSITION, LOW-LEAK ALUMINUM DAMPERS FOR THE OSA & EA OPENINGS.
13. PROVIDE HOT WATER COIL IN PRE-HEAT POSITION.
14. PROVIDE WITH ENERGY RECOVERY CORE.
15. MANUFACTURER TO PROVIDE UVC LIGHT SECTION DOWNSTREAM OF COOLING COIL TO BE FIELD INSTALLED WITH STAINLESS STEEL DRAIN PAN. PROVIDE WITH ACCESS DOOR KILL SWITCHES FOR THE UVC LIGHT.

FAN COIL UNIT SCHEDULE

DESIGNATION	SERVICE	TYPE	ARRANGEMENT	MANUFACTURER	MODEL NUMBER	DIMENSIONS (L x W x H)	WEIGHT (lbs)	SEE NOTE	BLOWER DATA						COOLING COIL DATA									HEATING COIL DATA							ELECTRICAL DATA			
									TOTAL CFM	OUTSIDE AIR CFM	EST. EXT. SP. (IN. WG.)	MOTOR H.P.	DRIVE	FAN TYPE	CFM OVER COIL	MAX. FACE VELOCITY (FPM)	GRAND SENSIBLE BTUH	GRAND TOTAL BTUH	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	GPM	EWT (°F DB)	LWT (°F DB)	CFM OVER COIL	MAX. FACE VELOCITY (FPM)	GRAND TOTAL BTUH	EAT (°F DB)	LAT (°F DB)	GPM	EWT (°F DB)	LWT (°F DB)	FLA	MCA	MOCP	VOLTAGE
FCU-H1-01	CTE BOILER ROOM	SZ.CV	HORIZONTAL, SUSPENDED	CARRIER	42DH	37.5" x 37" x 21.5"	250	1-9	1,200	0	0.6	1.00	DIRECT	FC	1,200	500	29,808	38,849	78.0°	65.0°	55.0°	4.9	42.0°	58.0°	1,200	500	22,032	68.0°	85.0°	1.1	180.0°	140.0°	1.8	2.19	15	460 / 3 / 60

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
2. ESTIMATED EXTERNAL STATIC PRESSURE INCLUDES LOSSES THROUGH DUCTWORK, AIR DEVICES, SOUND ATTENUATORS, ETC.
3. FAN COIL UNIT INTERNAL STATIC PRESSURE SHALL INCLUDE LOSSES THROUGH COILS, CASING, INTERNAL DAMPERS, AND 0.50" W.G. FOR DIRTY FILTER.
4. COOLING COILS SHALL HAVE A MINIMUM OF 6 ROWS AND A MAXIMUM OF 10 FINS PER INCH. PRESSURE DROP SHALL NOT EXCEED 15 FT. AT SCHEDULED GPM.
5. FAN COIL UNIT SUSPENDED FROM STRUCTURE.
6. PROVIDE FLOAT SWITCH IN AUXILIARY DRAIN PAN.
7. PROVIDE MERV 13 FILTERS.
8. PROVIDE FACTORY MOUNTED STARTER AND DISCONNECT.
9. PROVIDE HOT WATER COIL IN RE-HEAT POSITION.

PACKAGED, OUTDOOR, CENTRAL-STATION AIR-HANDLING UNITS

DESIGNATION	SERVICE	TYPE	MANUFACTURER	MODEL NUMBER	SEE NOTE	DIMENSIONS (L"xW"xH")	ARI EER / IEER	UNIT WEIGHT (LBS)	INDOOR BLOWER DATA					COOLING COIL DATA							GAS HEATING DATA						ELECTRICAL INFORMATION			
									TOTAL CFM	OUTSIDE AIR CFM	EST. EXT. SP. (IN. WG.)	TOTAL BHP	FAN QUANITY / HORSEPOWER (EACH)	TYPE	CFM OVER COIL	MAX. FACE VELOCITY (FPM)	GRAND SENSIBLE BTUH	GRAND TOTAL BTUH	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	LAT (°F WB)	FUEL	INPUT BTUH (MAX.)	OUTPUT BTUH (MIN.)	MIN. STAGES OF HEAT / TURN DOWN	EAT (°F DB)	LAT (°F DB)	VOLTS / PH / HZ	MCA	MOCP
RTU-MP-01	MULTI-PURPOSE	SZ VAV	VALENT	VX	1-23	250"L x 98"W x 124"H	9.6 / 12.3	9,700 lbs.	19,000	3,700	1.2"	14.40	4 / 5 HP	DIRECT DRIVE - PF	19,000	500	561,700	841,800	81.5°	67.9°	53.2°	53.2°	NATURAL GAS	800,000	648,000	MODULATING / 10:1	56.2°	87.7°	460 / 3 / 60	199	225
RTU-MP-02	MULTI-PURPOSE	SZ VAV	VALENT	VX	1-23	250"L x 98"W x 124"H	9.6 / 12.3	9,700 lbs.	19,000	3,700	1.2"	14.40	4 / 5 HP	DIRECT DRIVE - PF	19,000	500	561,700	841,800	81.5°	67.9°	53.2°	53.2°	NATURAL GAS	800,000	648,000	MODULATING / 10:1	56.2°	87.7°	460 / 3 / 60	199	225

1. REFERENCE DRAWINGS FOR ELECTRICAL DATA.
2. ESTIMATED EXTERNAL STATIC PRESSURE INCLUDES LOSSES THROUGH DUCTWORK, AIR DEVICES, SOUND ATTENUATORS, ETC.
3. ROOF TOP UNIT INTERNAL STATIC PRESSURE SHALL INCLUDE LOSSES THROUGH COILS, CASING, INTERNAL DAMPERS, AND 0.75" W.G. FOR DIRTY FILTERS.
4. AMBIENT AIR TEMPERATURE SHALL BE 105°F.
5. ROOFTOP UNIT SHALL HAVE A MINIMUM OF TWO REFRIGERANT CIRCUITS. THE LEAD CIRCUIT SHALL HAVE A VARIABLE SPEED COMPRESSOR WITH STAGED COMPRESSORS FOR LAG FOR ACCURATE SUPPLY AIR DRY BULB AND DEW POINT CONTROL.
6. PROVIDE UNIT WITH MODULATING HOT GAS RE-HEAT COIL FOR ACTIVE HUMIDITY CONTROL.
7. EVAPORATOR COIL SHALL BE AL/CU; CONDENSER COIL AND HOT-GAS RE-HEAT COIL SHALL BE BE MICROCHANNEL. ALL COILS SHALL BE FULLY DIPPED AND EPOXY COATED.
8. PROVIDE 120v/15 AMP, 2 PLUG, UNPOWERED CONVENIENCE OUTLET. ELECTRICAL TO PROVIDE SEPARATE POWER FEED TO THE OUTLET.
9. REFRIGERANT SHALL BE R-454B.
10. PROVIDE HAIL GUARDS.
11. PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION AND FACTORY MOUNTED DISCONNECT SWITCH.
12. PROVIDE WITH PLEATED MERV 13 FILTERS.
13. DRAIN PAN SHALL BE STAINLESS STEEL WITH CONDENSATE OVERFLOW SWITCH WITH SENSING DEVICE AND WIRE TO SHUT-DOWN UNIT UPON WATER DETECTION IN PAN.
14. UNIT SHALL BE THERMALLY BROKEN DOUBLE WALL CASING WITH R-VALUE.
15. ALL CONDENSER FANS SHALL BE VARIABLE-SPEED CONTROL.
16. EQUIPMENT SHALL COMPLY WITH LATEST EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC) AND SHALL MEET OR EXCEED THE SCHEDULED EFFICIENCY VALUES.
17. PROVIDE LOW AMBIENT CONTROL DOWN TO 0°F.
18. PROVIDE UNIT WITH INTEGRATED ECONOMIZER CYCLE CONTROL. MINIMUM COOLING STAGING REQUIREMENTS PER 2015 IECCC TABLE C403.3.1: (≥65,00 BTUH AND <240,000 BTUH - 3 STAGES OF COOLING; ≥240,000 BTUH - 4 STAGES OF COOLING).
19. UNIT SHALL BE PROVIDED WITH HYBRID COOLING CONTROL PACKAGE AND TERMINAL STRIP FOR THIRD PARTY CONTROL; REFER TO 23 74 13; 2.9 CONTROLS AND 23 09 93 SEQUENCES OF OPERATIONS FOR FURTHER REQUIREMENTS.
20. UNIT SHALL BE ROOF MOUNTED. PROVIDE NEW INSULATED 48" TALL CUSTOM CURB WITH HORIZONTAL SUPPLY AND RETURN OPENINGS; REFER TO PLANS AND SPECIFICATION FOR FURTHER REQUIREMENTS.
21. PROVIDE NEW DUCT SMOKE DETECTOR AS REQUIRED BY CODE.
22. IF DISSIMILAR MANUFACTURER IS SELECTED FROM BASIS OF DESIGN, RTU MANUFACTURER TO COORDINATE WITH CHIBS MANUFACTURER, SERVICE PLATFORM MANUFACTURER, STRUCTURAL, AND STEEL MANUFACTURER FOR DESIGN OF RTU SERVICE PLATFORM AND ANCHORING TO STRUCTURE TO MEET THE WIND REQUIREMENTS OF 155 MPH RATING, THREE SECOND GUST
23. CONTROL PANEL SHALL BE NEC/450 AND UL508A COMPLIANT WITH 65K HIGH SHORT CIRCUIT CURRENT RATING (SCCR).

PACKAGED, OUTDOOR, CENTRAL-STATION AIR-HANDLING UNITS

DESIGNATION	SERVICE	TYPE	MANUFACTURER	MODEL NUMBER	SEE NOTE	DIMENSIONS (L"xW"xH")	ARI EER / IEER	UNIT WEIGHT (LBS)	INDOOR BLOWER DATA					COOLING COIL DATA							HOT GAS RE-HEAT DATA		GAS HEATING DATA						ELECTRICAL INFORMATION		
									TOTAL CFM	OUTSIDE AIR CFM	EST. EXT. SP. (IN. WG.)	BHP / HP	TYPE	CFM OVER COIL	MAX. FACE VELOCITY (FPM)	GRAND SENSIBLE BTUH	GRAND TOTAL BTUH	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	CAPACITY BTUH	LAT (°F DB)	FUEL	INPUT BTUH (MAX.)	OUTPUT BTUH (MIN.)	MIN. STAGES OF HEAT / TURN DOWN	EAT (°F DB)	LAT (°F DB)	VOLTS / PH / HZ	MCA	MOCP
RTU-C1	AREA 'C' STAIRWELL	SZ VAV	TRANE	YHK	1-25	89" x 54" x 53"	12.9 / 17.1 SEER	1,100	1,400	-	0.8"	0.35 / 3.0	DIRECT DRIVE - PF	1,400	500	33,418	46,381	76.0°	65.0°	54.0°	34,480	65.0°	NATURAL GAS	80,000	64,800	2	60.0°	85.0°	460 / 3 / 60	17.0	20
RTU-E1	AREA 'E' STAIRWELL	SZ VAV	TRANE	YHK	1-25	89" x 54" x 53"	12.9 / 17.1 SEER	1,100	1,400	-	0.8"	0.35 / 3.0	DIRECT DRIVE - PF	1,400	500	33,418	46,381	76.0°	65.0°	54.0°	34,480	65.0°	NATURAL GAS	80,000	64,800	2	60.0°	85.0°	460 / 3 / 60	17.0	20
RTU-F1	AREA 'F' STAIRWELL	SZ VAV	TRANE	YHK	1-25	69" x 46" x 49"	12.9 / 17.1 SEER	900	1,050	-	0.8"	0.37 / 0.75	DIRECT DRIVE - PF	1,050	500	25,064	34,785	76.0°	65.0°	54.0°	26,010	65.0°	NATURAL GAS	80,000	64,800	2	60.0°	85.0°	460 / 3 / 60	12.0	15
RTU-B1	AREA 'B' STAIRWELL	SZ VAV	TRANE	YHK	1-25	69" x 46" x 49"	12.9 / 17.1 SEER	900	1,050	-	0.8"	0.37 / 0.75	DIRECT DRIVE - PF	1,050	500	25,064	34,785	76.0°	65.0°	54.0°	26,010	65.0°	NATURAL GAS	80,000	64,800	2	60.0°	85.0°	460 / 3 / 60	12.0	15
RTU-B2	AREA 'B' STAIRWELL	SZ VAV	TRANE	YHK	1-25	69" x 46" x 49"	12.9 / 17.1 SEER	900	1,050	-	0.8"	0.37 / 0.75	DIRECT DRIVE - PF	1,050	500	25,064	34,785	76.0°	65.0°	54.0°	26,010	65.0°	NATURAL GAS	80,000	64,800	2	60.0°	85.0°	460 / 3 / 60	12.0	15

1. REFERENCE DRAWINGS FOR ELECTRICAL DATA.
2. ESTIMATED EXTERNAL STATIC PRESSURE INCLUDES LOSSES THROUGH DUCTWORK, AIR DEVICES, SOUND ATTENUATORS, ETC.
3. ROOF TOP UNIT INTERNAL STATIC PRESSURE SHALL INCLUDE LOSSES THROUGH COILS, CASING, INTERNAL DAMPERS, AND 0.75" W.G. FOR DIRTY FILTERS.
4. AMBIENT AIR TEMPERATURE SHALL BE 105°F.
5. PROVIDE UNIT WITH MODULATING HOT GAS RE-HEAT COIL FOR ACTIVE HUMIDITY CONTROL.
6. EVAPORATOR COIL CONDENSER COIL AND HOT-GAS RE-HEAT COIL SHALL BE BE MICROCHANNEL. ALL COILS SHALL BE FULLY DIPPED AND EPOXY COATED.
7. PROVIDE 120v/15 AMP, 2 PLUG, UNPOWERED CONVENIENCE OUTLET. ELECTRICAL TO PROVIDE SEPARATE POWER FEED TO THE OUTLET.
8. REFRIGERANT SHALL BE R-454B.
9. PROVIDE HAIL GUARDS.
10. PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION AND FACTORY MOUNTED DISCONNECT SWITCH.
11. PROVIDE WITH MERV 13 FILTERS.
12. PROVIDE DRAIN PAN WITH CONDENSATE OVERFLOW SWITCH; WIRE TO SHUT-DOWN UNIT UPON WATER DETECTION IN PAN.
13. EQUIPMENT SHALL COMPLY WITH LATEST EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC) AND SHALL MEET OR EXCEED THE SCHEDULED EFFICIENCY VALUES.
14. PROVIDE LOW AMBIENT CONTROL DOWN TO 0°F.
15. UNIT SHALL BE PROVIDED WITH TERMINAL STRIP FOR THIRD PARTY CONTROL; REFER TO 23 74 13; 2.11 & 2.12 CONTROLS AND 23 09 93 SEQUENCES OF OPERATIONS FOR FURTHER REQUIREMENTS.
16. ROOFTOP UNIT AND ROOF CURB SHALL BE COMPLETELY LEVEL AND ROOF CURB TO MATCH ROOF SLOPE.
17. PROVIDE FACTORY MOUNTED REFRIGERANT LEAK DETECTION SYSTEM.
18. MANUFACTURER TO PROVIDE UVC LIGHT DOWNSTREAM OF COOLING COIL. PROVIDE WITH ACCESS DOOR KILL SWITCHES FOR THE UVC LIGHT.
19. UNIT SHALL BE FACTORY TESTED AND CERTIFIED AS A COMPLETE UNIT BEFORE SHIPMENT. UNIT SHALL BE STRUCTURALLY CALCULATED TO MEET THE WIND REQUIREMENTS OF THE 2015 IBC. RATED FOR 155 MPH, THREE SECOND GUST. MANUFACTURER TO PROVIDE SIGNED AND SEALED DRAWINGS BY PROFESSIONAL ENGINEER OF THE RATED ASSEMBLY. CURB SHALL BE PROVIDED BY THE MANUFACTURER AND NOT BY OTHERS.
20. CONTROL PANEL SHALL BE NEC/450 AND UL508A COMPLIANT WITH 65K HIGH SHORT CIRCUIT CURRENT RATING (SCCR).

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
Licensed
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

MECHANICAL SCHEDULES

M-502

MECHANICAL SCHEDULES
M-503
FOR BLUEBEAM LABELING/OCR:

SERIES FAN-POWERED AIR TERMINAL UNITS WITH HOT WATER HEAT SCHEDULE

TAG	INLET SIZE	COOLING CFM		STATIC PRESSURE		HOT WATER HEATING COIL						VOLTAGE (V/PH/HZ)	MANUFACTURER	MODEL
		MAX	MIN	INLET	UNIT P.D.	CFM	MAX. FACE VELOCITY (FPM)	TOTAL BTUH	EAT	LAT	GPM	EWT / LWT (°F)		
CVB-C1-01-01	12	1,205	362	1	0.3	1205	750	27,199	64.1	85	1.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C1-01-02	12	1,175	353	1	0.3	1175	750	26,522	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C1-01-03	12	1,100	330	1	0.3	1100	750	24,829	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C1-01-04	12	1,130	339	1	0.3	1130	750	25,506	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C1-01-05	12	1,030	309	1	0.3	1030	750	23,249	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C1-01-06	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C1-01-07	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C1-01-08	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D1-01-01	12	1,155	347	1	0.3	1155	750	26,071	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D1-01-02	12	1,015	305	1	0.3	1015	750	22,911	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D1-01-03	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D1-01-04	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D1-01-05	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D1-01-06	10	935	281	1	0.3	935	750	21,105	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D1-01-07	10	975	293	1	0.3	975	750	22,008	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D1-01-08	8	410	123	1	0.3	410	750	9,255	64.1	85	0.5	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D1-01-09	14	1,560	468	1	0.3	1560	750	35,212	64.1	85	1.8	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D1-01-10	12	1,080	324	1	0.3	1080	750	24,378	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E1-01-01	12	1,155	347	1	0.3	1155	750	26,071	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E1-01-02	12	1,120	336	1	0.3	1120	750	25,281	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E1-01-03	8	420	126	1	0.3	420	750	9,480	64.1	85	0.5	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E1-01-04	12	1,310	393	1	0.3	1310	750	29,569	64.1	85	1.5	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E1-01-05	10	860	258	1	0.3	860	750	19,412	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E1-01-06	12	1,010	303	1	0.3	1010	750	22,798	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E1-01-07	12	1,070	321	1	0.3	1070	750	24,152	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E1-01-08	12	1,145	344	1	0.3	1145	750	25,845	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E1-01-09	12	1,205	362	1	0.3	1205	750	27,199	64.1	85	1.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F1-01-01	10	745	224	1	0.3	745	750	16,816	64.1	85	0.8	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F1-01-02A	10	960	288	1	0.3	960	750	21,669	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F1-01-02B	10	870	261	1	0.3	870	750	19,638	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F1-01-02C	10	870	261	1	0.3	870	750	19,638	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F1-01-03	10	900	270	1	0.3	900	750	20,315	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F1-01-04	8	540	162	1	0.3	540	750	12,189	64.1	85	0.6	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F1-01-05	12	1,080	324	1	0.3	1080	750	24,378	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F1-01-06	14	1,560	468	1	0.3	1560	750	35,212	64.1	85	1.8	180 / 140	277 / 1 / 60	TITUS	DTFS-F

1. MAXIMUM NC LEVEL SHALL NOT EXCEED 35 AT 1 IN. STATIC PRESSURE.
2. PROVIDE FACTORY MOUNTED INDUCED AIR INLET SOUND SOUND ATTENUATOR. REFER TO SERIES FLOW FAN POWERED VARIABLE VOLUME UNITS WITH HOT WATER HEAT DETAIL.
3. PROVIDE FACTORY MOUNTED FUSED DISCONNECT SWITCH IN CONTROL PANEL.
4. HOT WATER COILS SHALL BE 1 OR 2 ROWS AND A MAXIMUM OF 10 FINS PER INCH. WATER PRESSURE DROP SHALL NOT EXCEED 5 FT AT SCHEDULED GPM AND AIR PRESSURE DROP THROUGH THE COIL SHALL NOT EXCEED 0.24" W.G.
5. COORDINATE WITH DRAWINGS FOR RIGHT OR LEFT-HAND CASING CONFIGURATION PRIOR TO ORDERING.

SERIES FAN-POWERED AIR TERMINAL UNITS WITH HOT WATER HEAT SCHEDULE

TAG	INLET SIZE	COOLING CFM		STATIC PRESSURE		HOT WATER HEATING COIL						VOLTAGE (V/PH/HZ)	MANUFACTURER	MODEL
		MAX	MIN	INLET	UNIT P.D.	CFM	MAX. FACE VELOCITY (FPM)	TOTAL BTUH	EAT	LAT	GPM	EWT / LWT (°F)		
CVB-C2-01-01	12	1,205	362	1	0.3	1205	750	27,199	64.1	85	1.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C2-01-02	12	1,175	353	1	0.3	1175	750	26,522	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C2-01-03	10	950	285	1	0.3	950	750	21,443	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C2-01-04	10	870	261	1	0.3	870	750	19,638	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C2-01-05	6	215	65	1	0.3	215	750	4,853	64.1	85	0.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C2-01-06	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C2-01-07	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C2-01-08	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C2-01-09	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D2-01-01	12	1,155	347	1	0.3	1155	750	26,071	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D2-01-02	12	1,155	347	1	0.3	1155	750	26,071	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D2-01-03	12	1,150	345	1	0.3	1150	750	25,958	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D2-01-04	12	1,155	347	1	0.3	1155	750	26,071	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D2-01-05	12	1,155	347	1	0.3	1155	750	26,071	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D2-01-06	10	875	263	1	0.3	875	750	19,751	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D2-01-07	10	940	282	1	0.3	940	750	21,218	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D2-01-08	10	940	282	1	0.3	940	750	21,218	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D2-01-09	10	940	282	1	0.3	940	750	21,218	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E2-01-01	10	960	288	1	0.3	960	750	21,669	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E2-01-02	10	960	288	1	0.3	960	750	21,669	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E2-01-03	10	960	288	1	0.3	960	750	21,669	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E2-01-04	10	960	288	1	0.3	960	750	21,669	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E2-01-05	6	225	68	1	0.3	225	750	5,079	64.1	85	0.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E2-01-06	10	870	261	1	0.3	870	750	19,638	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E2-01-07	10	950	285	1	0.3	950	750	21,443	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E2-01-08	12	1,175	353	1	0.3	1175	750	26,522	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E2-01-09	12	1,205	362	1	0.3	1205	750	27,199	64.1	85	1.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F2-01-01	12	1,135	341	1	0.3	1135	750	25,619	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F2-01-02	10	975	293	1	0.3	975	750	22,008	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F2-01-03	14	1,620	486	1	0.3	1620	750	36,567	64.1	85	1.8	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F2-01-04	12	1,150	345	1	0.3	1150	750	25,958	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F2-01-05	12	1,230	369	1	0.3	1230	750	27,764	64.1	85	1.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F2-01-06	10	940	282	1	0.3	940	750	21,218	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F2-01-07	10	940	282	1	0.3	940	750	21,218	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F2-01-08	12	1,080	324	1	0.3	1080	750	24,378	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F

1. MAXIMUM NC LEVEL SHALL NOT EXCEED 35 AT 1 IN. STATIC PRESSURE.
2. PROVIDE FACTORY MOUNTED INDUCED AIR INLET SOUND SOUND ATTENUATOR. REFER TO SERIES FLOW FAN POWERED VARIABLE VOLUME UNITS WITH HOT WATER HEAT DETAIL.
3. PROVIDE FACTORY MOUNTED FUSED DISCONNECT SWITCH IN CONTROL PANEL.
4. HOT WATER COILS SHALL BE 1 OR 2 ROWS AND A MAXIMUM OF 10 FINS PER INCH. WATER PRESSURE DROP SHALL NOT EXCEED 5 FT AT SCHEDULED GPM AND AIR PRESSURE DROP THROUGH THE COIL SHALL NOT EXCEED 0.24" W.G.
5. COORDINATE WITH DRAWINGS FOR RIGHT OR LEFT-HAND CASING CONFIGURATION PRIOR TO ORDERING.

SERIES FAN-POWERED AIR TERMINAL UNITS WITH HOT WATER HEAT SCHEDULE

TAG	INLET SIZE	COOLING CFM		STATIC PRESSURE		HOT WATER HEATING COIL						VOLTAGE (V/PH/HZ)	MANUFACTURER	MODEL
		MAX	MIN	INLET	UNIT P.D.	CFM	MAX. FACE VELOCITY (FPM)	TOTAL BTUH	EAT	LAT	GPM	EWT / LWT (°F)		
CVB-C3-01-01	12	1,155	347	1	0.3	1155	750	26,071	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C3-01-02	12	1,325	398	1	0.3	1325	750	29,908	64.1	85	1.5	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C3-01-03A	12	1,075	323	1	0.3	1075	750	24,265	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C3-01-03B	10	885	266	1	0.3	885	750	19,976	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C3-01-04A	10	995	299	1	0.3	995	750	22,459	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C3-01-04B	12	1,155	347	1	0.3	1155	750	26,071	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C3-01-05A	10	855	257	1	0.3	855	750	19,299	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C3-01-05B	10	855	257	1	0.3	855	750	19,299	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C3-01-06A	10	855	257	1	0.3	855	750	19,299	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-C3-01-06B	10	975	293	1	0.3	975	750	22,008	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D3-01-01	12	1,180	354	1	0.3	1180	750	26,635	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D3-01-02A	12	1,205	362	1	0.3	1205	750	27,199	64.1	85	1.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D3-01-02B	10	975	293	1	0.3	975	750	22,008	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D3-01-03	12	1,280	384	1	0.3	1280	750	28,892	64.1	85	1.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D3-01-04A	10	995	299	1	0.3	995	750	22,459	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D3-01-04B	12	1,295	389	1	0.3	1295	750	29,231	64.1	85	1.5	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D3-01-05	12	1,230	369	1	0.3	1230	750	27,764	64.1	85	1.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-D3-01-06	12	1,100	330	1	0.3	1100	750	24,829	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E3-01-01	12	1,155	347	1	0.3	1155	750	26,071	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E3-01-02	12	1,345	404	1	0.3	1345	750	30,359	64.1	85	1.5	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E3-01-03A	12	1,105	332	1	0.3	1105	750	24,942	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E3-01-03B	10	915	275	1	0.3	915	750	20,653	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E3-01-04A	12	1,035	311	1	0.3	1035	750	23,362	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E3-01-04B	10	825	248	1	0.3	825	750	18,622	64.1	85	0.9	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E3-01-05A	10	825	248	1	0.3	825	750	18,622	64.1	85	0.9	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E3-01-05B	12	1,155	347	1	0.3	1155	750	26,071	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E3-01-06A	10	825	248	1	0.3	825	750	18,622	64.1	85	0.9	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-E3-01-06B	10	945	284	1	0.3	945	750	21,331	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F3-01-01	10	880	264	1	0.3	880	750	19,863	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F3-01-02	10	790	237	1	0.3	790	750	17,832	64.1	85	0.9	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F3-01-03A	12	1,245	374	1	0.3	1245	750	28,102	64.1	85	1.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F3-01-03B	12	1,245	374	1	0.3	1245	750	28,102	64.1	85	1.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F3-01-04	12	1,290	387	1	0.3	1290	750	29,118	64.1	85	1.5	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F3-01-05	12	1,240	372	1	0.3	1240	750	27,989	64.1	85	1.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F3-01-06	12	1,100	330	1	0.3	1100	750	24,829	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-F3-01-07	12	1,100	330	1	0.3	1100	750	24,829	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F

1. MAXIMUM NC LEVEL SHALL NOT EXCEED 35 AT 1 IN. STATIC PRESSURE.
2. PROVIDE FACTORY MOUNTED INDUCED AIR INLET SOUND SOUND ATTENUATOR. REFER TO SERIES FLOW FAN POWERED VARIABLE VOLUME UNITS WITH HOT WATER HEAT DETAIL.
3. PROVIDE FACTORY MOUNTED FUSED DISCONNECT SWITCH IN CONTROL PANEL.
4. HOT WATER COILS SHALL BE 1 OR 2 ROWS AND A MAXIMUM OF 10 FINS PER INCH. WATER PRESSURE DROP SHALL NOT EXCEED 5 FT AT SCHEDULED GPM AND AIR PRESSURE DROP THROUGH THE COIL SHALL NOT EXCEED 0.24" W.G.
5. COORDINATE WITH DRAWINGS FOR RIGHT OR LEFT-HAND CASING CONFIGURATION PRIOR TO ORDERING.

DUCT SILENCERS SCHEDULE

MARK	SERVICE	MANUFACTURER	MODEL	CFM	SIZE (INCHES) W x H	LENGTH (FEET)	MAX. ΔP (" W.G.)	MAX. FACE VELOCITY (FPM)
ST-01	RETURN	VIBRO-ACOUSTICS	RD	-	48"x24"	5'-0"	0.13	900
ST-02	RETURN	VIBRO-ACOUSTICS	RD	-	48"x48"	5'-0"	0.13	900
ST-03	RETURN	VIBRO-ACOUSTICS	RD	-	48"x48"	3'-0"	0.13	900
ST-04	RETURN	VIBRO-ACOUSTICS	RD	-	32"x20"	5'-0"	0.13	900
ST-05	RETURN	VIBRO-ACOUSTICS	RD	-	48"x18"	5'-0"	0.13	900
ST-06	RETURN	VIBRO-ACOUSTICS	RD	-	36"x36"	3'-0"	0.13	900
ST-07	RETURN	VIBRO-ACOUSTICS	RD	-	24"x18"	3'-0"	0.13	900

1. MAXIMUM FLAME SPREAD OF 25 AND MAXIMUM FUEL CONTRIBUTED AND SMOKE DEVELOPED RATING OF 50 PER NFPA 90A FOR SOUND TRAP MEDIA.
2. MEDIA SHALL MEET EROSION TEST METHOD DESCRIBED IN U.L. PUBLICATION 181.
3. CONTRACTOR SHALL PROVIDE TRANSITIONS TO DUCTWORK AS REQUIRED.

SINGLE DUCT AIR TERMINAL UNIT SCHEDULE

TAG	INLET SIZE	COOLING CFM		STATIC PRESSURE		NC LEVELS		VOLTAGE	MANUFACTURER	MODEL
		MAX	MIN	INLET	UNIT P.D.	RAD.	DISCH.			
VAV-C1-01-01	6	300	150	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-D1-01-01	6	300	150	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-E1-01-01	6	330	165	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-F1-01-01	8	360	180	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-C2-01-01	8	380	190	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-D2-01-01	6	300	150	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-E2-01-01	8	375	188	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-F2-01-01	8	420	210	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-C3-01-01	6	325	163	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-D3-01-01	6	300	150	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-E3-01-01	6	325	163	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-F3-01-01	8	470	235	1	0.35	13	13	120 / 1 / 60	TITUS	DESV
VAV-B1-02-01	12	1000	500	1	0.35	13	13	120 / 1 / 60	TITUS	DESV

1. MAXIMUM NC LEVEL SHALL NOT EXCEED 25 AT 1 IN. STATIC PRESSURE.
2. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
3. PROVIDE VOLUME CONTROL DAMPER, MULTI-POINT FLOW SENSOR, CONTROLLER ENCLOSURE, POWER TRANSFORMER. REFER TO AIR TERMINAL..
4. COORDINATE WITH DRAWINGS FOR RIGHT OR LEFT-HAND CASING CONFIGURATION PRIOR TO ORDERING.

SERIES FAN-POWERED AIR TERMINAL UNITS WITH HOT WATER HEAT SCHEDULE

TAG	INLET SIZE	COOLING CFM		STATIC PRESSURE		HOT WATER HEATING COIL						VOLTAGE (V/PH/HZ)	MANUFACTURER	MODEL
		MAX	MIN	INLET	UNIT P.D.	CFM	MAX. FACE VELOCITY (FPM)	TOTAL BTUH	EAT	LAT	GPM	EWT / LWT (°F)		
CVB-B1-02-01	10	740	222	1	0.3	740	750	16,703	64.1	85	0.8	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-B1-02-02	12	1,060	318	1	0.3	1060	750	23,926	64.1	85	1.2	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-B1-02-03	10	870	261	1	0.3	870	750	19,638	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-B1-02-04	8	380	114	1	0.3	380	750	8,577	64.1	85	0.4	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-B1-02-05	10	980	294	1	0.3	980	750	22,121	64.1	85	1.1	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-B1-02-06	12	1,110	333	1	0.3	1110	750	25,055	64.1	85	1.3	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-B1-02-07	10	890	267	1	0.3	890	750	20,089	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-B1-02-08	8	625	188	1	0.3	625	750	14,108	64.1	85	0.7	180 / 140	277 / 1 / 60	TITUS	DTFS-F
CVB-B1-02-09	10	900	270	1	0.3	900	750	20,315	64.1	85	1.0	180 / 140	277 / 1 / 60	TITUS	DTFS-F

1. MAXIMUM NC LEVEL SHALL NOT EXCEED 35 AT 1 IN. STATIC PRESSURE.
2. PROVIDE FACTORY MOUNTED INDUCED AIR INLET SOUND SOUND ATTENUATOR. REFER TO SERIES FLOW FAN POWERED VARIABLE VOLUME UNITS WITH HOT WATER HEAT DETAIL.
3. PRO

DIFFUSERS, REGISTERS & GRILLES SCHEDULE

DESIGNATION	MODEL NUMBER	NOISE CRITERIA (NC)	DESCRIPTION
A	TITUS TDCA	25	24x24 MODULE SIZE, LAY-IN BORDER TYPE, 18"x18" NECK SIZE WITH ROUND DUCT CONNECTION SIZED AS INDICATED ON PLANS. NO OPPOSED BLADE DAMPER, ALL STEEL CONSTRUCTION. FOR SHEETROCK CEILING INSTALLATION,PROVIDE WITH TITUS TRM ALUMINUM RAPID MOUNT FRAME.
B	TITUS PAR	25	24x24 MODULE SIZE, LAY-IN BORDER TYPE, 22"x22" NECK SIZE UNLESS NOTED OTHERWISE. NO OPPOSED BLADE DAMPER, ALL STEEL CONSTRUCTION. FOR SHEETROCK CEILING INSTALLATION, PROVIDE WITH TITUS TRM ALUMINUM RAPID MOUNT FRAME.
C	TITUS 300FS	25	DOUBLE DEFLECTION, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO SHORT DIMENSION, NO OPPOSED BLADEDAMPER, SURFACE MOUNTING BORDER TYPE WITH COUNTERSUNK HOLES, ALL ALUMINUM CONSTRUCTION.
D	TITUS 350FL	25	3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION, 35° FIXED DEFLECTION, NO OPPOSED BLADE DAMPER, SURFACE MOUNTING BORDER TYPE WITH COUNTERSUNK HOLES, ALL ALUMINUM CONSTRUCTION
E	TITUS TDC-AA	25	12x12 MODULE SIZE, LAY-IN BORDER TYPE, 10"X10" NECK SIZE WITH ROUND DUCT CONNECTION SIZED AS INDICATED ON PLANS. NO OPPOSED BLADE DAMPER, ALL ALUMINUM CONSTRUCTION. FOR SHEETROCK CEILING INSTALLATION, PROVIDE WITH TITUS TRM ALUMINUM RAPID MOUNT FRAME.
F	TITUS PAR-AA	25	12x12 MODULE SIZE, LAY-IN BORDER TYPE, 10"x10" NECK SIZE UNLESS NOTED OTHERWISE. NO OPPOSED BLADE DAMPER, ALL ALUMINUM CONSTRUCTION. FOR SHEETROCK CEILING INSTALLATION, PROVIDE WITH TITUS TRM ALUMINUM RAPID MOUNT FRAME.
G	TITUS FL-15	25	1.5" SLOT WIDTH, 1-SLOT, CONTINUOUS LINEAR FLOW BAR WITH FBPI PLENUM , BORDER TYPE 22.
H	TITUS FL-15-JT	25	1.5" SLOT WIDTH, 1-SLOT, CONTINUOUS LINEAR FLOW BAR WITH FBPI PLENUM AND PATTERN CONTROLLER, BORDER TYPE 22.
J	TITUS CT-480	25	6" WIDE SIDEWALL GRILLE, 60° LONG, ALUMINUM CONSTRUCTION, 1/8" BARS WITH 0° DEFLECTION, 1/4" BAR SPACING. PROVIDE FRAME AND BORDER TYPE 3 WITH CONCEALED FASTENING
K	TITUS 33RL	25	1/2" BLADE SPACING, 35° FIXED DEFLECTION, 16 GAUGE BORDER, 14 GAUGE BLADES, SUPPORT BARS 6 INCH ON CENTER, BLADES PARALLEL TO LONG DIMENSION. ALL STEEL CONSTRUCTION.
L	TITUS TDC-AA	25	24x24 MODULE SIZE, LAY-IN BORDER TYPE, 18"x18" NECK SIZE WITH ROUND DUCT CONNECTION SIZED AS INDICATED ON PLANS. NO OPPOSED BLADE DAMPER, ALL ALUMINUM CONSTRUCTION. FOR SHEETROCK CEILING INSTALLATION, PROVIDE WITH TITUS TRM ALUMINUM RAPID MOUNT FRAME.
M	TITUS PAR-AA	25	24x24 MODULE SIZE, LAY-IN BORDER TYPE, 22"x22" NECK SIZE UNLESS NOTED OTHERWISE. NO OPPOSED BLADE DAMPER, ALL ALUMINUM CONSTRUCTION. FOR SHEETROCK CEILING INSTALLATION, PROVIDE WITH TITUS TRM ALUMINUM RAPID MOUNT FRAME.

1. ALL DIFFUSER DESIGNATIONS MAY NOT BE USED ON PROJECT.
2. DIFFUSERS IN NATATORIUMS, SHOWER ROOMS, ADJACENT DRESSING ROOMS, DISHWASH ROOMS, AND THERAPY POOL ROOMS SHALL BE ALL ALUMINUM CONSTRUCTION.
3. PROVIDE ROTO-TWIST CABLE OPERATED DAMPERS AT IN GYP BOARD CEILINGS.

DUCTLESS MINI-SPLIT SYSTEM AIR-CONDITIONERS SCHEDULE: MPF BLDG

EVAPORATOR SECTION												
INDOOR EVAPORATOR DESIGNATION	FCU-IDF-1162	FCU-IDF-1138	FCU-IDF-1106	FCU-IDF-1129	FCU-IDF-2159	FCU-IDF-2137	FCU-IDF-2104	FCU-IDF-2125	FCU-IDF-3146	FCU-IDF-3131	FCU-IDF-3106	FCU-IDF-3123
SERVICE	1162-IDF	1138-IDF	1106-IDF	1129-IDF	2159-IDF	2137-IDF	2104-IDF	2125-IDF	3146-IDF	3131-IDF	3106-IDF	3123-IDF
MANUFACTURER	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI
AREA	MPF 1ST FLOOR AREA C IDF	MPF 1ST FLOOR AREA D IDF	MPF 1ST FLOOR AREA E IDF	MPF 1ST FLOOR AREA F IDF	MPF 2ND FLOOR AREA C IDF	MPF 2ND FLOOR AREA D IDF	MPF 2ND FLOOR AREA E IDF	MPF 2ND FLOOR AREA F IDF	MPF 3RD FLOOR AREA C IDF	MPF 3RD FLOOR AREA D IDF	MPF 3RD FLOOR AREA E IDF	MPF 3RD FLOOR AREA F IDF
MODEL NUMBER	PKA	PKA	PKA	PKA	PKA	PKA	PKA	PKA	PKA	PKA	PKA	PKA
TYPE	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED
WEIGHT (LBS.)	28	28	28	28	28	28	28	28	28	28	28	28
NOTES	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
FAN DATA												
SUPPLY CFM (HIGH / MEDIUM / LOW) SPEED	455 / 385 / 310 / 265	455 / 385 / 310 / 265	455 / 385 / 310 / 265	455 / 385 / 310 / 265	455 / 385 / 310 / 265	455 / 385 / 310 / 265	455 / 385 / 310 / 265	455 / 385 / 310 / 265	455 / 385 / 310 / 265	455 / 385 / 310 / 265	455 / 385 / 310 / 265	455 / 385 / 310 / 265
COOLING / HEATING COIL	DX	DX	DX	DX	DX	DX	DX	DX	DX	DX	DX	DX
NOMINAL TONNAGE	1.5 TONS	1.5 TONS	1.5 TONS	1.5 TONS	1.5 TONS	1.5 TONS	1.5 TONS	1.5 TONS	1.5 TONS	1.5 TONS	1.5 TONS	1.5 TONS
ENTERING AIR EVAP (DB/WB) °F - COOLING MODE	80°F / 67°F	80°F / 67°F	80°F / 67°F	80°F / 67°F	80°F / 67°F	80°F / 67°F	80°F / 67°F	80°F / 67°F	80°F / 67°F	80°F / 67°F	80°F / 67°F	80°F / 67°F
ENTERING AIR EVAP (DB/WB) °F - HEATING MODE	-	-	-	-	-	-	-	-	-	-	-	-
NOMINAL BTUH COOLING (BTUH)	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000
NOMINAL BTUH HEATING (BTUH)	-	-	-	-	-	-	-	-	-	-	-	-
AIR-COOLED CONDENSER			3				3					
DESIGNATION	ACCU-IDF-1162	ACCU-IDF-1138	ACCU-IDF-1106	ACCU-IDF-1129	ACCU-IDF-2159	ACCU-IDF-2137	ACCU-IDF-2104	ACCU-IDF-2125	ACCU-IDF-3146	ACCU-IDF-3131	ACCU-IDF-3106	ACCU-IDF-3123
SERVES	FCU-IDF-1162	FCU-IDF-1138	FCU-IDF-1106	FCU-IDF-1129	FCU-IDF-2159	FCU-IDF-2137	FCU-IDF-2104	FCU-IDF-2125	FCU-IDF-3146	FCU-IDF-3131	FCU-IDF-3106	FCU-IDF-3123
LOCATION	MPF ROOF	MPF ROOF	MPF ROOF	MPF ROOF	MPF ROOF	MPF ROOF	MPF ROOF	MPF ROOF	MPF ROOF	MPF ROOF	MPF ROOF	MPF ROOF
MANUFACTURER	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI
MODEL NUMBER	PUY	PUY	PUY	PUY	PUY	PUY	PUY	PUY	PUY	PUY	PUY	PUY
EFFICIENCY (SEER)	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
VOLTS/PH/HZ	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60	208 / 1 / 60
MCA	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
MOCP	28	28	28	28	28	28	28	28	28	28	28	28
AMBIENT TEMPERATURE °F	105°F	105°F	105°F	105°F	105°F	105°F	105°F	105°F	105°F	105°F	105°F	105°F
WEIGHT (LBS.)	99	99	99	99	99	99	99	99	99	99	99	99

NOTES

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
2. ESTIMATED EXTERNAL STATIC PRESSURE INCLUDES LOSSES THROUGH PLENUM, AIR DEVICES, ETC.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. PROVIDE REMOTE WALL MOUNTED PROGRAMMABLE THERMOSTAT WITH BACnet INTERFACE.
5. PROVIDE INVERTER DRIVEN COMPRESSOR.
6. INDOOR UNIT IS POWERED BY THE OUTDOOR UNIT. INTERCONNECTING POWER WIRING FROM OUTDOOR TO INDOOR UNIT IS BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL DRAWINGS.
7. PROVIDE MATCHING CONDENSING UNIT FROM SAME MANUFACTURER.
8. MANUFACTURER SHALL PROVIDE A CONDENSATE PUMP. PUMP SHALL BE POWERED BY THE UNIT AND SHALL NOT START / STOP UNLESS THE UNIT IS ENERGIZED / DE-ENERGIZED.

HVAC GRAVITY VENTILATORS SCHEDULE

DESIGNATION	SERVICE	MANUFACTURER	MODEL	CFM	MAX. THROAT AREA (FT.²)/ THROAT SIZE (DIA./WXL)	P.D. (INCHES WG)	WEIGHT (LBS)	NOTES
IH-C1	OAHU-C2-01, OAHU-C1-01	COOK	GI	13,500	20.2 / 44" x 68"	0.10	450	1,2,5
IH-C2	OAHU-C3-01	COOK	GI	10,300	17.5 / 42" x 60"	0.08	400	1-3
IH-E1	OAHU-E2-01, OAHU-E1-01	COOK	GI	11,850	19.25 / 42" x 66"	0.09	400	1-3
IH-E2	OAHU-E3-01	COOK	GI	10,200	17.5 / 42" x 60"	0.08	400	1-3
IH-F1	OAHU-F2-01	COOK	GI	1,700	3 / 18" x 24"	0.08	100	1-3
IH-A1	OAHU-A2-01	COOK	GI	6,400	11.11 / 40" x 40"	0.08	200	1-3
IH-B1	OAHU-B1-01	COOK	GI	2,500	5 / 24" x 30"	0.08	200	1-3
IH-B2	OAHU-B3-01	COOK	GI	2,900	5 / 24" x 30"	0.06	200	1-3
IH-MP-01	OAHU-MP-01	COOK	GI	14,600	21.8 / 56" x 56"	0.11	500	1,2,5
RH-C1	OAHU-C3-01 EXHAUST	COOK	GR	10,300	17.5 / 42" x 60"	0.08	400	1-3
RH-E1	OAHU-E3-01 EXHAUST	COOK	GR	9,060	15.2 / 42" x 52"	0.09	300	1-3
RH-C2	BUILDING RELIEF	COOK	GR	-	4 / 24" x 24"	-	150	1, 2, 4
RH-E2	BUILDING RELIEF	COOK	GR	-	4 / 24" x 24"	-	150	1, 2, 4
RH-F1	BUILDING RELIEF	COOK	GR	-	4 / 24" x 24"		150	1, 2, 4
RH-MP-01	BUILDING RELIEF	COOK	GR	-	9 / 36" x 36"	-	200	1, 2, 4
RH-A1	BUILDING RELIEF	COOK	GR	-	4 / 24" x 24"	-	150	1, 2, 4
RH-B1	BUILDING RELIEF	COOK	GR	-	9 / 36" x 36"	-	200	1, 2, 4

3

1. PROVIDE ROOF HOOD DESIGNED TO WITHSTAND HIGH WIND SPEEDS UP TO 155 MPH.
2. PROVIDE STAINLESS STEEL BIRD SCREEN AND 12" PREFABRICATED ROOF CURB.
3. MAXIMUM THROAT VELOCITY SHALL NOT EXCEED 600 FPM
4. PROVIDE WITH GRAVITY WEIGHTED DAMPER SET TO OPEN AT 0.10" W.G.
5. MAXIMUM THROAT VELOCITY SHALL NOT EXCEED 700 FPM

HVAC FANS SCHEDULE

DESIGNATION	LOCATION	SERVICE	MANUFACTURER	MODEL NUMBER	NOTES	WEIGHTS (LBS)	FAN DATA						
							TYPE	DRIVE	CFM	STATIC PRESSURE (" W.G.)	MOTOR HP. (MIN.)	RPM (MAX.)	VOLT / Ø / HZ
EF-C1-01	ROOF	1ST AND 2ND FLOOR RR EXHAUST AREA C	COOK	ACRUD	1-7	89	CENTRIFUGAL	DIRECT	2,000	1.00	3/4	1,800	120 / 1 / 60
EF-E1-01	ROOF	1ST AND 2ND FLOOR RR EXHAUST AREA E	COOK	ACRUD	1-7	108	CENTRIFUGAL	DIRECT	2,300	1.20	1	1,800	120 / 1 / 60
EF-F1-01	ROOF	1ST AND 2ND FLOOR RR EXHAUST AREA F	COOK	ACRUD	1-7	65	CENTRIFUGAL	DIRECT	370	1.00	1/2	1,800	120 / 1 / 60
EF-C3-01	ROOF	SCIENCE LAB PURGE	COOK	ACRUD	1-7	45	CENTRIFUGAL	DIRECT	500	0.30	1/8	1,800	120 / 1 / 60
EF-C3-02	ROOF	SCIENCE LAB PURGE	COOK	ACRUD	1-7	45	CENTRIFUGAL	DIRECT	500	0.30	1/8	1,800	120 / 1 / 60
EF-C3-03	ROOF	SCIENCE PREP PURGE	COOK	ACRUD	1-7	38	CENTRIFUGAL	DIRECT	200	0.30	1/20	1,800	120 / 1 / 60
EF-C3-04	ROOF	SCIENCE LAB PURGE	COOK	ACRUD	1-7	45	CENTRIFUGAL	DIRECT	500	0.30	1/8	1,800	120 / 1 / 60
EF-C3-05	ROOF	SCIENCE PREP PURGE	COOK	ACRUD	1-7	38	CENTRIFUGAL	DIRECT	200	0.30	1/20	1,800	120 / 1 / 60
EF-C3-06	ROOF	CHEMICAL STORAGE ROOM	COOK	ACRUD	1-7	38	CENTRIFUGAL	DIRECT	130	0.30	1/20	1,800	120 / 1 / 60
EF-D3-01	ROOF	SCIENCE LAB PURGE	COOK	ACRUD	1-7	45	CENTRIFUGAL	DIRECT	500	0.30	1/8	1,800	120 / 1 / 60
EF-D3-02	ROOF	SCIENCE PREP PURGE	COOK	ACRUD	1-7	38	CENTRIFUGAL	DIRECT	200	0.40	1/20	1,800	120 / 1 / 60
EF-D3-03	ROOF	SCIENCE LAB PURGE	COOK	ACRUD	1-7	45	CENTRIFUGAL	DIRECT	500	0.30	1/8	1,800	120 / 1 / 60
EF-D3-04	ROOF	SCIENCE PREP PURGE	COOK	ACRUD	1-7	38	CENTRIFUGAL	DIRECT	200	0.30	1/20	1,800	120 / 1 / 60
EF-E3-01	ROOF	SCIENCE LAB PURGE	COOK	ACRUD	1-7	45	CENTRIFUGAL	DIRECT	500	0.30	1/8	1,800	120 / 1 / 60
EF-E3-02	ROOF	SCIENCE PREP PURGE	COOK	ACRUD	1-7	38	CENTRIFUGAL	DIRECT	200	0.30	1/20	1,800	120 / 1 / 60
EF-E3-03	ROOF	SCIENCE LAB PURGE	COOK	ACRUD	1-7	45	CENTRIFUGAL	DIRECT	500	0.30	1/8	1,800	120 / 1 / 60
EF-E3-04	ROOF	SCIENCE PREP PURGE	COOK	ACRUD	1-7	38	CENTRIFUGAL	DIRECT	200	0.30	1/20	1,800	120 / 1 / 60
EF-F3-01	ROOF	SCIENCE LAB PURGE	COOK	ACRUD	1-7	45	CENTRIFUGAL	DIRECT	500	0.30	1/8	1,800	120 / 1 / 60
EF-F3-02	ROOF	SCIENCE PREP PURGE	COOK	ACRUD	1-7	45	CENTRIFUGAL	DIRECT	400	0.30	1/8	1,800	120 / 1 / 60
EF-F3-03	ROOF	SCIENCE LAB PURGE	COOK	ACRUD	1-7	45	CENTRIFUGAL	DIRECT	500	0.30	1/8	1,800	120 / 1 / 60
EF-A1-01	ROOF	ATHLETICS LOBBY RR	COOK	ACRUD	1-7	54	CENTRIFUGAL	DIRECT	700	0.80	1/4	1,800	120 / 1 / 60
EF-A1-02	ROOF	ATHLETICS LOBBY RR	COOK	ACRUD	1-7	54	CENTRIFUGAL	DIRECT	700	0.80	1/4	1,800	120 / 1 / 60
EF-B1-01	PLENUM	1ST FLOOR ATHL	COOK	SQN	1-4	53	CENTRIFUGAL	DIRECT	900	0.40	1/4	1,800	120 / 1 / 60
EF-B2-01	ROOF	2ND FLOOR ATHLETICS RRs	COOK	ACRUD	1-7	52	CENTRIFUGAL	DIRECT	840	0.80	1/4	1,800	120 / 1 / 60
EF-H1-01	CTE BOILER RM	CTE BOILER ROOM CO PURGE	COOK	SQN	1-4	120	CENTRIFUGAL	DIRECT	2,200	1.00	1	1,800	120 / 1 / 60

3

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
2. REFERENCE SPECIFICATIONS FOR SEQUENCE OF OPERATIONS.
3. FAN SHALL BE PROVIDED WITH VARI-FLOW® CONTROL AND ECM MOTOR. STARTER SHALL BE PROVIDED BY FAN MANUFACTURER. JUNCTION BOX AND VARI-FLOW TRANSFORMER SHALL BE FACTORY MOUNTED AND WIRED.
4. PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT SWITCH IN NEMA-3R ENCLOSURE.
5. PROVIDE UPBLAST FAN DESIGNED TO WITHSTAND HIGH WIND SPEEDS UP TO 155 MPH.
6. REFERENCE ARCHITECTURAL DRAWINGS FOR ROOF CURB DETAIL.
7. PROVIDE EPOXY COATING FOR FAN AND ALL ASSOCIATED ACCESSORIES.

PBK
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HOUSTON, TX
713-365-0008
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT
GALENA PARK ISD

DATE: December 5, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/01/08

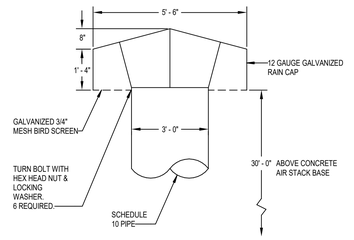
CHECKED BY: MP
DRAWN BY: CT

MECHANICAL SCHEDULES

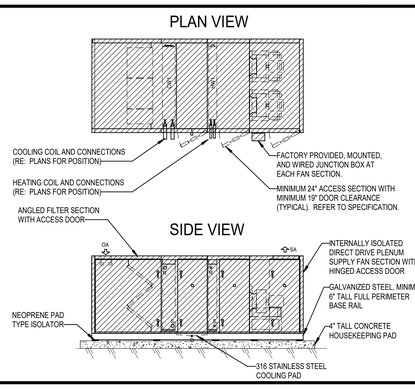
M-504

Plot Stamp:
1/7/2026 8:38:05 PM

MECHANICAL DETAILS
M-602
FOR BLUEBEAM LABELING/DOCR:

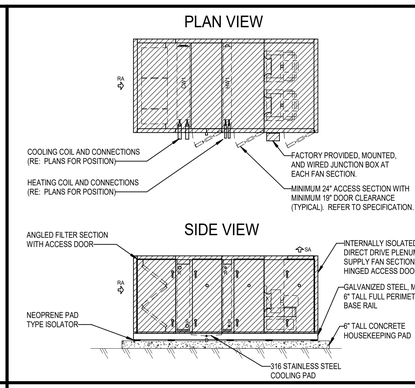


RAIN CAP DETAIL — 15
NOT TO SCALE



NOTES:
1. REFER TO SPECIFICATION SECTION 23 73 13 MODULAR INDOOR CENTRAL - STATION AIR - HANDLING UNITS FOR FURTHER REQUIREMENTS.
2. REFER TO MODULAR INDOOR CENTRAL - STATION AIR HANDLING UNIT EQUIPMENT SCHEDULE FOR PERFORMANCE, COOLING/HEATING COIL ARRANGEMENT, AND DIMENSIONAL DATA.
3. PROVIDE INTERNAL FLEXIBLE CONNECTION BETWEEN FAN AND AIR UNIT CASING. FLEXIBLE CONNECTION BETWEEN AIR UNIT CASING AND CONNECTING DUCT SHALL NOT BE PROVIDED WHEN FAN IS INTERNALLY ISOLATED WITH FLEXIBLE CONNECTION TO CASING.
4. PROVIDE MOTOR SHAFT GROUNDING KIT FOR ALL AIR HANDLING UNIT MOTORS. KITS SHALL BE FACTORY PROVIDED AND INSTALLED PRIOR TO SHIPMENT.
5. FOR AIR HANDLING UNITS WITH MORE THAN ONE FAN AND TO ALLOW FOR A SINGLE CONNECTION TO A SINGLE VARIABLE FREQUENCY DRIVE, PROVIDE A FACTORY MOUNTED AND WIRED OVERLOAD PANEL.
6. CONTRACTOR SHALL PROVIDE TRAPPED CONDENSATE DRAIN LINE ROUTED TO NEAREST APPROVED FLOOR DRAIN AND MUST NOT POSE A TRIP HAZARD.
7. CONTRACTOR SHALL INSTALL PIPING WITH PIPING SPECIALTIES TO AIR HANDLING UNIT COILS IN A MANNER SUCH THAT ALL ACCESS DOORS SHALL BE ABLE TO FULLY SWING OPEN AND TO ALLOW SERVICE AND MAINTENANCE.
8. PROVIDE MINIMUM 24" ACCESS SECTION WITH MINIMUM 19" DOOR CLEARANCE. PROVIDE ACCESS SECTIONS BETWEEN PARALLEL COIL SECTIONS, UPSTREAM OF COIL SECTIONS, UPSTREAM AND DOWNSTREAM OF ENERGY RECOVERY WHEELS, IN FAN SECTIONS, FILTER SECTIONS AND MIXING BOXES. SECTIONS SHALL BE OF SAME CONSTRUCTION AS THE REST OF THE UNIT; DOUBLE WALL GALVANIZED STEEL CONSTRUCTION.

TYPICAL MODULAR INDOOR CENTRAL - STATION OUTSIDE AIR - HANDLING UNIT DETAIL — 14
NOT TO SCALE



NOTES:
1. REFER TO SPECIFICATION SECTION 23 73 13 MODULAR INDOOR CENTRAL - STATION AIR - HANDLING UNITS FOR FURTHER REQUIREMENTS.
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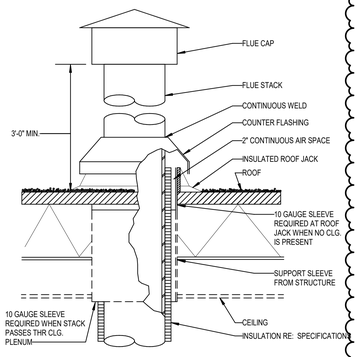
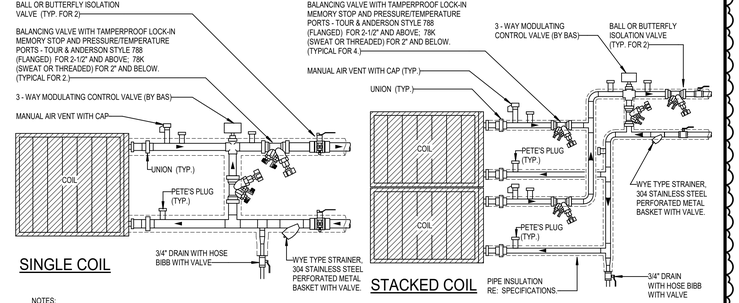
3. PROVIDE INTERNAL FLEXIBLE CONNECTION BETWEEN FAN AND AIR UNIT CASING. FLEXIBLE CONNECTION BETWEEN AIR UNIT CASING AND CONNECTING DUCT SHALL NOT BE PROVIDED WHEN FAN IS INTERNALLY ISOLATED WITH FLEXIBLE CONNECTION TO CASING.
4. PROVIDE MOTOR SHAFT GROUNDING KIT FOR ALL AIR HANDLING UNIT MOTORS. KITS SHALL BE FACTORY PROVIDED AND INSTALLED PRIOR TO SHIPMENT.
5. FOR AIR HANDLING UNITS WITH MORE THAN ONE FAN AND TO ALLOW FOR A SINGLE CONNECTION TO A SINGLE VARIABLE FREQUENCY DRIVE, PROVIDE A FACTORY MOUNTED AND WIRED OVERLOAD PANEL.
6. CONTRACTOR SHALL PROVIDE TRAPPED CONDENSATE DRAIN LINE ROUTED TO NEAREST APPROVED FLOOR DRAIN AND MUST NOT POSE A TRIP HAZARD.
7. CONTRACTOR SHALL INSTALL PIPING WITH PIPING SPECIALTIES TO AIR HANDLING UNIT COILS IN A MANNER SUCH THAT ALL ACCESS DOORS SHALL BE ABLE TO FULLY SWING OPEN AND TO ALLOW SERVICE AND MAINTENANCE.
8. PROVIDE MINIMUM 24" ACCESS SECTION WITH MINIMUM 19" DOOR CLEARANCE; PROVIDE ACCESS SECTIONS BETWEEN PARALLEL COIL SECTIONS, UPSTREAM OF COIL SECTIONS, UPSTREAM AND DOWNSTREAM OF ENERGY RECOVERY WHEELS, IN FAN SECTIONS, FILTER SECTIONS AND MIXING BOXES. SECTIONS SHALL BE OF SAME CONSTRUCTION AS THE REST OF THE UNIT; DOUBLE WALL GALVANIZED STEEL CONSTRUCTION.

TYPICAL MODULAR INDOOR CENTRAL - STATION AIR - HANDLING UNIT DETAIL — 13
NOT TO SCALE

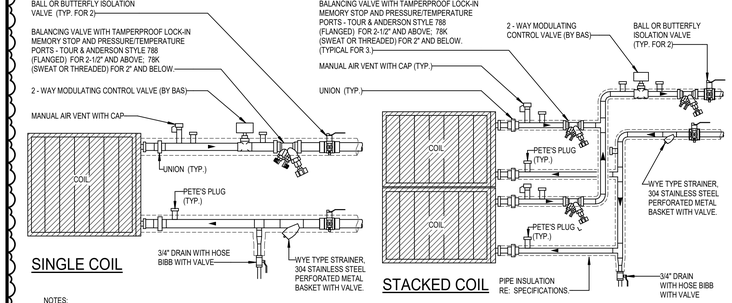


BOILER FLUE STACK DETAIL — 12
NOT TO SCALE



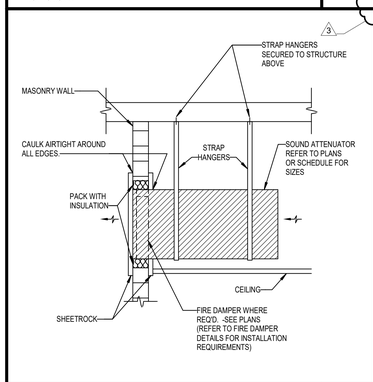
NOTES:
1. REFER TO CONDENSATE DRAIN DETAIL FOR DRAIN PAN TRAP REQUIREMENTS
2. PROVIDE PIPE REDUCERS FROM INLET/OUTLET OF CONTROL VALVES AS REQUIRED
3. ISOLATION AND FLOW CONTROL/BALANCING VALVES SHALL MATCH BRANCH PIPING SIZE. REFER TO MECHANICAL PIPING DIAGRAMS FOR BRANCH PIPE SIZES.
4. FOR ALL FLOW CONTROL BALANCING VALVES, ALL HANDLES AND PRESSURE/SENSOR PORTS SHALL HAVE EXTENDED STEMS TO ACCOMMODATE INSULATION.
5. MECHANICAL CONTRACTOR SHALL COORDINATE PIPE INSULATION THICKNESS WITH BALANCING VALVE PROVIDER.
6. ADDITIONAL ISOLATION VALVES SHALL BE PROVIDED ON SUPPLY AND RETURN LINES AS SHOWN TO COMPLETELY ISOLATE COIL AND AVOID DRAINING ENTIRE HYDRONIC LOOP.

COIL PIPING ACCESSORIES WITH 3-WAY CONTROL VALVE CONNECTION (VICTAULIC BALANCING VALVE) DETAIL — 11
NOT TO SCALE

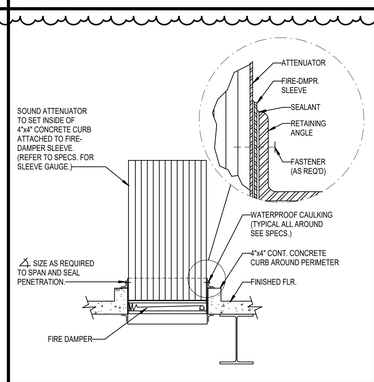


NOTES:
1. REFER TO CONDENSATE DRAIN DETAIL FOR DRAIN PAN TRAP REQUIREMENTS
2. PROVIDE PIPE REDUCERS FROM INLET/OUTLET OF CONTROL VALVES AS REQUIRED
3. ISOLATION AND FLOW CONTROL/BALANCING VALVES SHALL MATCH BRANCH PIPING SIZE. REFER TO MECHANICAL PIPING DIAGRAMS FOR BRANCH PIPE SIZES.
4. FOR ALL FLOW CONTROL BALANCING VALVES, ALL HANDLES AND PRESSURE/SENSOR PORTS SHALL HAVE EXENDED STEMS TO ACCOMODATE INSULATION.
5. MECHANICAL CONTRACTOR SHALL COORDINATE PIPE INSULATION THICKNESS WITH BALANCING VALVE PROVIDER.
6. ADDITIONAL ISOLATION VALVES SHALL BE PROVIDED ON SUPPLY AND RETURN LINES AS SHOWN TO COMPLETELY ISOLATE COIL AND AVOID DRAINING ENTIRE HYDRONIC LOOP.

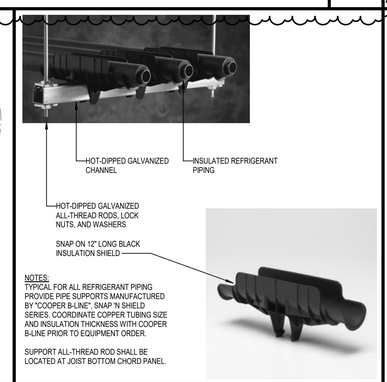
COIL PIPING ACCESSORIES WITH 2-WAY CONTROL VALVE CONNECTION (VICTAULIC BALANCING VALVE) DETAIL — 10
NOT TO SCALE



SOUND ATTENUATOR THROUGH WALL DETAIL — 9
NOT TO SCALE



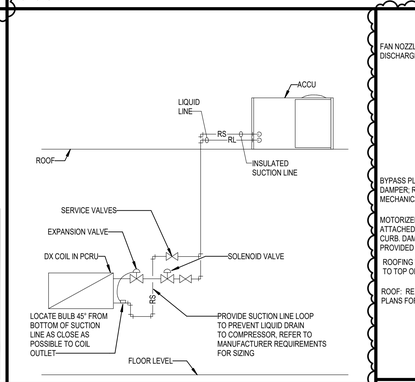
SOUND ATTENUATOR THROUGH FLOOR DETAIL — 8
NOT TO SCALE



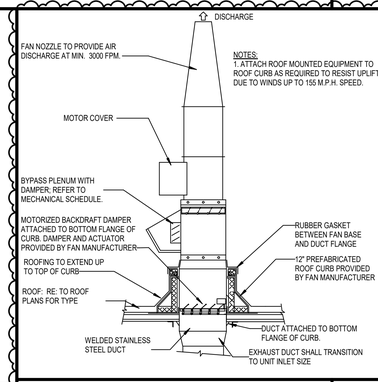
NOTES:
TYPICAL FOR ALL REFRIGERANT PIPING PROVIDE PIPE SUPPORTS MANUFACTURED BY "COOPER B-LINE", SNAP 'N SHIELD SERIES. COORDINATE COPPER TUBING SIZE AND INSULATION THICKNESS WITH COOPER B-LINE PRIOR TO EQUIPMENT ORDER.

SUPPORT ALL-THREAD ROD SHALL BE LOCATED AT JOIST BOTTOM CHORD PANEL.

SNAP 'N SHIELD REFRIGERANT PIPING SUPPORT DETAIL — 7
NOT TO SCALE

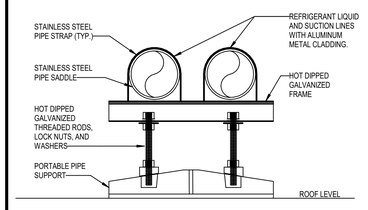


REFRIGERANT PIPING - ROOF ACCU DETAIL — 6
NOT TO SCALE



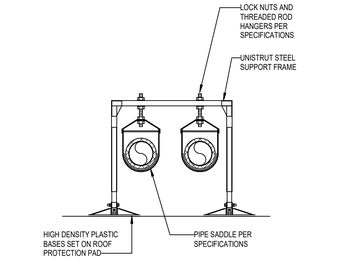
NOTES:
1. ATTACH ROOF MOUNTED EQUIPMENT TO ROOF CURB AS REQUIRED TO RESIST UPLIFT DUE TO WINDS UP TO 155 M.P.H. SPEED.

FUME HOOD EXHAUST FAN DETAIL — 5
NOT TO SCALE



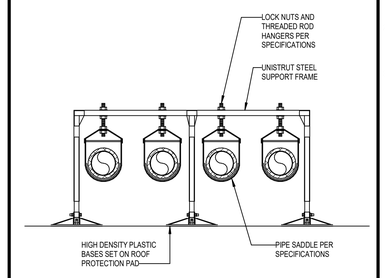
NOTE:
1. PORTABLE PIPE SUPPORTS SHALL BE MANUFACTURED BY ADVANCED SUPPORT PRODUCT, INC., MODEL SS1000A/SS2000-CB-ADJ (AS APPLICABLE) OR PRIOR APPROVAL EQUAL.
2. ALL METAL MATERIALS SHALL BE HOT-DIPPED GALVANIZED.
3. CONTRACTOR SHALL FIELD GALVANIZE ALL SURFACES THAT ARE EXPOSED DUE TO FIELD CUTS/ MODIFICATIONS.

ROOF MOUNTED PORTABLE REFRIGERANT PIPE SUPPORT DETAIL — 4
NOT TO SCALE



NOTE:
1. SPACE PIPE SUPPORTS AT MAXIMUM INTERVALS OF 10'-0" ON CENTER.
2. CONTRACTOR SHALL FIELD GALVANIZE ALL SURFACES THAT ARE EXPOSED DUE TO FIELD CUTS/ MODIFICATIONS.

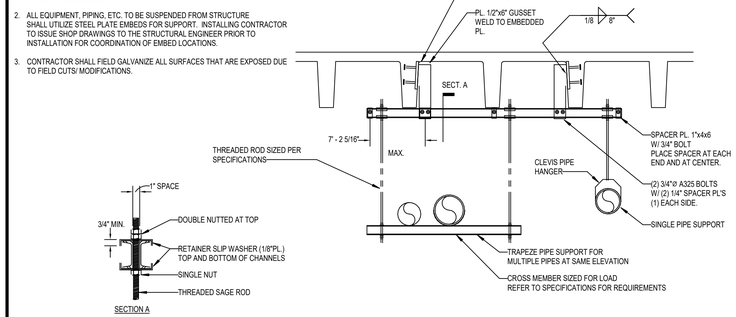
ROOF MOUNTED PORTABLE PIPE SUPPORT (2-PIPE CLEVIS HANGER) — 3
NOT TO SCALE



NOTE:
1. SPACE PIPE SUPPORTS AT MAXIMUM INTERVALS OF 10'-0" ON CENTER.
2. CONTRACTOR SHALL FIELD GALVANIZE ALL SURFACES THAT ARE EXPOSED DUE TO FIELD CUTS/ MODIFICATIONS.

ROOF MOUNTED PORTABLE PIPE SUPPORT(4-PIPE CLEVIS HANGER) — 2
NOT TO SCALE

NOTES:
1. COORDINATE PIPE WEIGHT LOADS AND PIPE SUPPORT LOCATIONS WITH STRUCTURAL ENGINEER.
2. ALL EQUIPMENT, PIPING, ETC. TO BE SUSPENDED FROM STRUCTURE SHALL UTILIZE STEEL PLATE EMBEDS FOR SUPPORT. INSTALLING CONTRACTOR TO ISSUE SHOP DRAWINGS TO THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION FOR COORDINATION OF EMBED LOCATIONS.
3. CONTRACTOR SHALL FIELD GALVANIZE ALL SURFACES THAT ARE EXPOSED DUE TO FIELD CUTS/ MODIFICATIONS.



PIPE HANGER FROM CONCRETE PAN JOIST DETAIL — 1
NOT TO SCALE

Plot Stamp:
1/7/2026 8:38:06 PM

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713.366.0808

LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539
ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE IN ALL PURSUITS

3

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
GALENA PARK ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/01/08

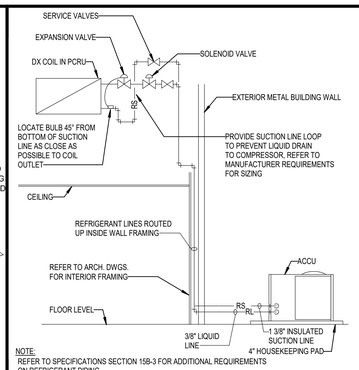
CHECKED BY: MP
DRAWN BY: CT

MECHANICAL DETAILS

M-602

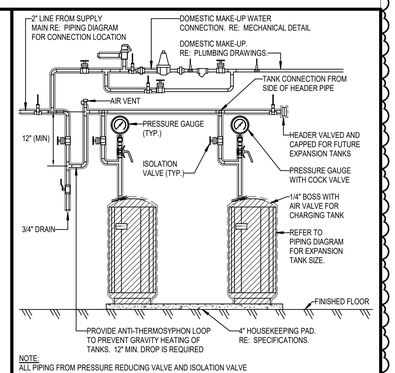
MECHANICAL DETAILS
M-604
FOR BLUEBEAM LABELING/DOCR:

GUY WIRE FOR RTU SERVICE PLATFORM
NOT TO SCALE
14



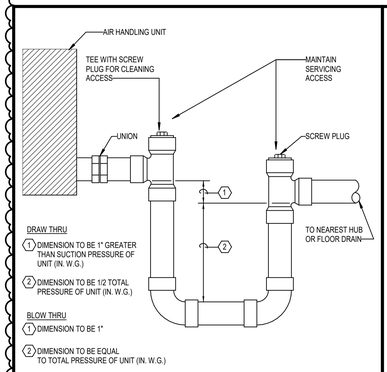
NOTE:
REFER TO SPECIFICATIONS SECTION 15B-3 FOR ADDITIONAL REQUIREMENTS ON REFRIGERANT PIPING.

REFRIGERANT PIPING - FLOOR ACCU DETAIL
NOT TO SCALE
13

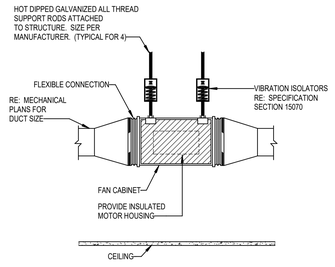


NOTE:
ALL PIPING FROM PRESSURE REDUCING VALVE AND ISOLATION VALVE TO SYSTEM, INCLUDING EXPANSION TANK, IS TO BE INSULATED.

HOT WATER BLADDER TYPE EXPANSION TANK PIPING DETAIL
NOT TO SCALE
12

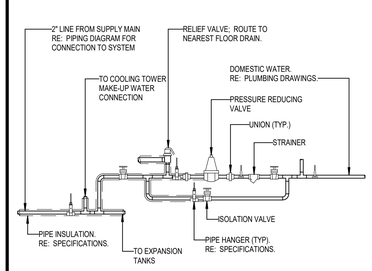


CONDENSATE TRAP PIPING DETAIL
NOT TO SCALE
11



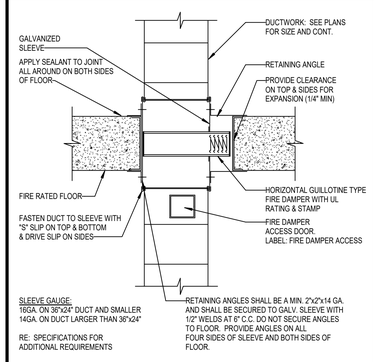
NOTES:
1. INSULATE FAN INTERIOR WITH 1" THICK 3.0 P.F.C. DENSITY ACOUSTICAL LINER WITH 100% ADHESIVE AND STICKPINS PER SMACNA. COAT AIR SIDE WITH FOSTER 40-20 ANTI-MICROBIAL COATING.
2. FAN SHALL INCLUDE (2) REMOVABLE ACCESS PANELS LOCATED PERPENDICULAR TO THE MOTOR MOUNTING PANEL. ACCESS PANELS MUST BE OF SUFFICIENT SIZE TO PERMIT EASY ACCESS TO ALL INTERIOR COMPONENTS.

IN-LINE EXHAUST FAN DETAIL
NOT TO SCALE
10



NOTE:
ALL PIPING FROM PRESSURE REDUCING VALVE AND ISOLATION VALVE TO SYSTEM IS TO BE INSULATED

DOMESTIC MAKE - UP WATER CONNECTION DETAIL
NOT TO SCALE
9

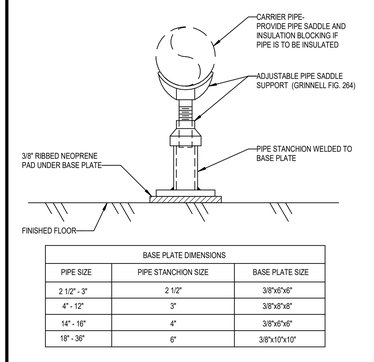


SLEEVE GAUGE:
16GA. ON 36"x24" DUCT AND SMALLER
14GA. ON DUCT LARGER THAN 36"x24"

RE: SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

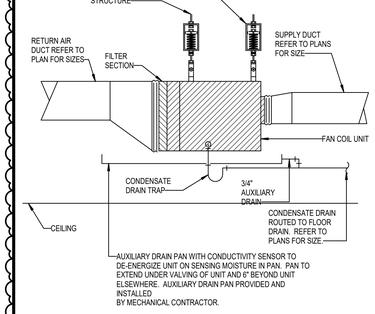
RETAINING ANGLES SHALL BE A MIN. 2"x2"x14 GA. AND SHALL BE SECURED TO GALV. SLEEVE WITH 1/2" WELDS AT 8" C.C. DO NOT SECURE ANGLES TO FLOOR. PROVIDE ANGLES ON ALL FOUR SIDES OF SLEEVE AND BOTH SIDES OF FLOOR.

HORIZONTAL FIRE DAMPER DETAIL
NOT TO SCALE
8

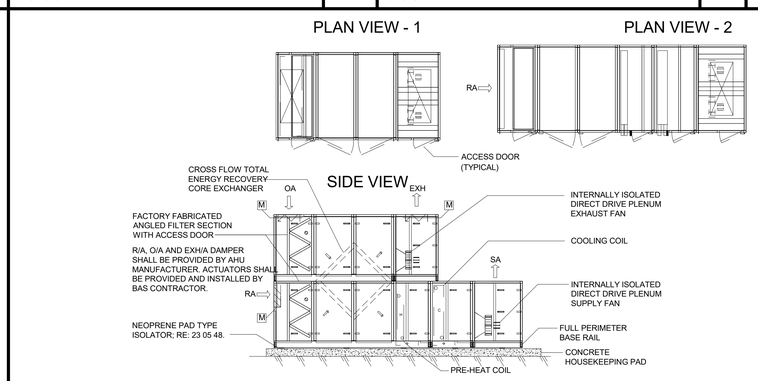


BASE PLATE DIMENSIONS		
PIPE SIZE	PIPE STANCHION SIZE	BASE PLATE SIZE
2 1/2" - 3"	2 1/2"	3/8"x6"x6"
4" - 12"	3"	3/8"x8"x8"
14" - 16"	4"	3/8"x6"x6"
18" - 36"	6"	3/8"x10"x10"

FLOOR MOUNTED PIPE STAND DETAIL
NOT TO SCALE
7

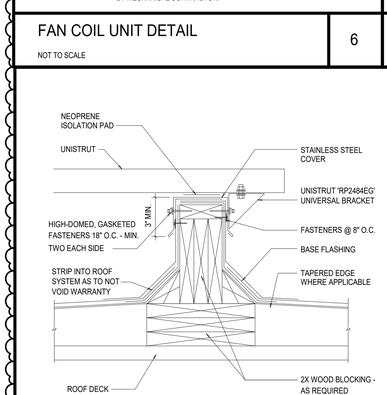


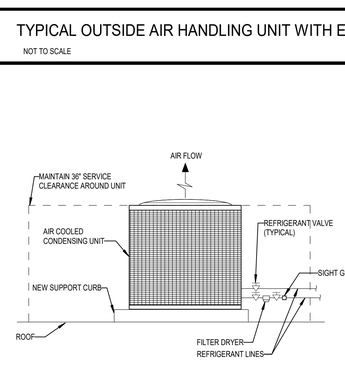
FAN COIL UNIT DETAIL
NOT TO SCALE
6



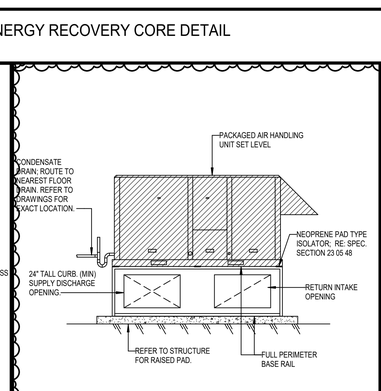
NOTES:
1. REFER TO SPECIFICATION SECTION 23 73 13 MODULAR INDOOR CENTRAL-STATION AIR-HANDLING UNITS FOR FURTHER REQUIREMENTS.
2. REFER TO MODULAR INDOOR CENTRAL-STATION AIR-HANDLING UNIT EQUIPMENT SCHEDULE FOR PERFORMANCE, COOLING/HEATING COIL ARRANGEMENT, AND DIMENSIONAL DATA.
3. PROVIDE INTERNAL FLEXIBLE CONNECTION BETWEEN FAN AND AIR UNIT CASING. FLEXIBLE CONNECTION BETWEEN AIR UNIT CASING AND CONNECTING DUCT SHALL NOT BE PROVIDED WHEN FAN IS INTERNALLY ISOLATED WITH FLEXIBLE CONNECTION TO CASING.
4. PROVIDE MOTOR SHAFT GROUNDING KIT FOR ALL AIR HANDLING UNIT MOTORS; KITS SHALL BE FACTORY PROVIDED AND INSTALLED PRIOR TO SHIPMENT.
5. FOR AIR HANDLING UNITS WITH MORE THAN ONE FAN AND TO ALLOW FOR A SINGLE CONNECTION TO A SINGLE VARIABLE FREQUENCY DRIVE, PROVIDE A FACTORY MOUNTED AND WIRED MOTOR OVERLOAD PANEL.
6. CONTRACTOR SHALL PROVIDE TRAPPED CONDENSATE DRAIN LINE ROUTED TO NEAREST APPROVED FLOOR DRAIN AND MUST NOT POSE A TRIP HAZARD
7. CONTRACTOR SHALL INSTALL PIPING SPECIALTIES TO AIR HANDLING UNIT COILS IN A MANNER SUCH THAT ALL ACCESS DOORS SHALL BE ABLE TO FULLY SWING OPEN AND TO ALLOW SERVICE AND MAINTENANCE.
8. PROVIDE MINIMUM 24" ACCESS SECTION WITH MINIMUM 19" DOOR CLEARANCE. PROVIDE ACCESS SECTIONS BETWEEN PARALLEL COIL SECTIONS, UPSTREAM OF COIL SECTIONS,UPSTREAM AND DOWNSTREAM OF ENERGY RECOVERY WHEELS, IN FAN SECTIONS, FILTER SECTIONS, AND MIXING BOXES. SECTIONS SHALL BE OF SAME CONSTRUCTIONS AS THE REST OF THE UNIT; DOUBLE WALL GALVANIZED STEEL CONSTRUCTION.
9. PROVIDE FACTORY MANUFACTURED MIXING SECTION WITH LIKE CONSTRUCTION WITH OTHER SECTIONS.
10. PROVIDE A FACTORY INSTALLED AND WIRED VFD CONTROLLER THAT SHALL SUPPORT FULL ECONOMIZER AND FROST PROTECTION MODES. CONTROL SYSTEM SHALL INCLUDE FACTORY MOUNTED AND WIRED TEMPERATURE SENSORS IN ALL FOUR AIRSTREAMS. THE VFD SHALL BE MOUNTED IN A NEMA 1 ENCLOSURE. INCLUDED LCP DISPLAY SCREEN, ALLOW FOR AN 80:1 TURNDOWN RATIO, AND COMMUNICATE TO THE BAS VIA BACNET MS/TP, NO EXCEPTIONS.

TYPICAL OUTSIDE AIR HANDLING UNIT WITH ENERGY RECOVERY CORE DETAIL
NOT TO SCALE
5

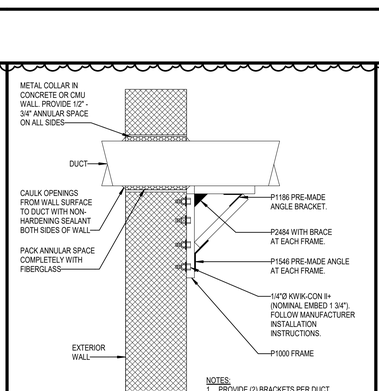




ROOF MOUNTED AIR COOLED CONDENSING UNIT PIPING AND SUPPORT DETAIL
NOT TO SCALE
4

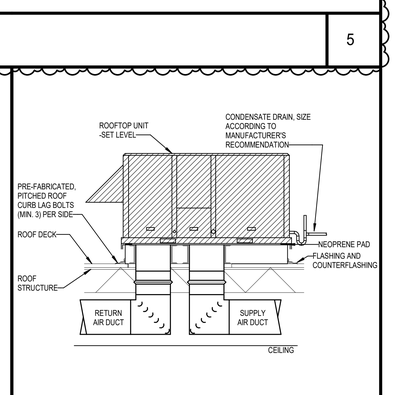


PACKAGED AIR HANDLING UNIT-ELEVATED CURB DETAIL
NOT TO SCALE
3



NOTES:
1. PROVIDE (2) BRACKETS PER DUCT PENETRATION. STRAP DUCT DOWN TO BRACKETS.

EXTERIOR WALL DUCT SUPPORT DETAIL
NOT TO SCALE
2



ROOFTOP AIR CONDITIONING UNIT DETAIL
NOT TO SCALE
1

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547
CLIENT PROJECT NO: 240539

ISSUE FOR PROPOSAL

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HOUSTON, TX
713-366-0608

LEAF ENGINEERS

Galena Park ISD

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025

LEAF ENGINEERS
F-18672

CLIENT: GALENA PARK ISD
DATE: December 5, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/01/08

CHECKED BY: MP
DRAWN BY: CT

MECHANICAL DETAILS

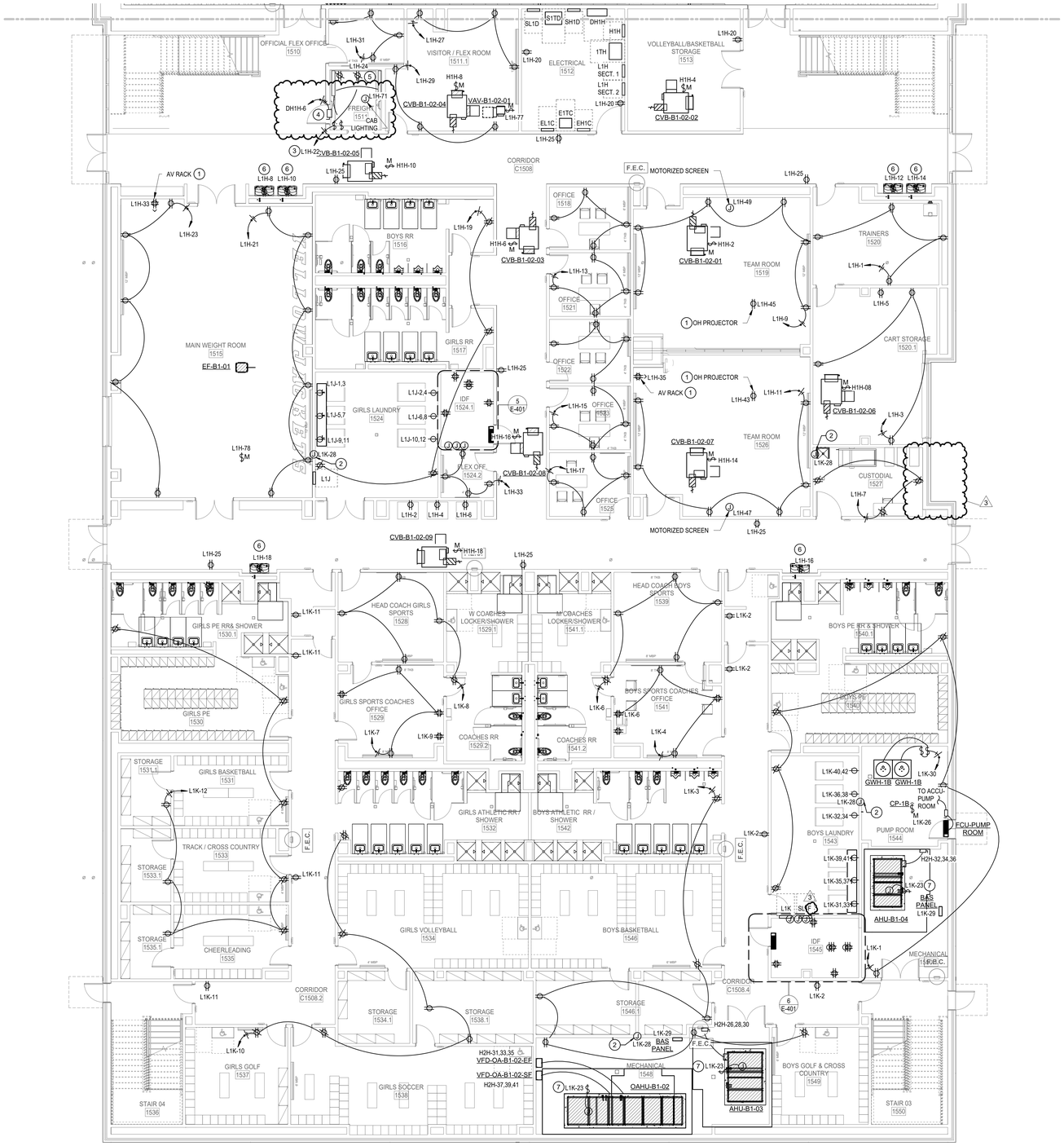
M-604

Plot Stamp:
1/7/2026 8:38:06 PM

1ST FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN
E-101B

FOR BLUEBEAM LABELING/DOOR:

0"
1"



1 1ST FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN

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

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

1. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
2. JUNCTION BOX FOR ELECTRONIC TRAP PRIMER. REFER TO PLUMBING CONTRACTOR FOR EXACT LOCATION, MOUNTING AND ADDITIONAL INFORMATION.
3. TWO LIGHT FIXTURES (DAY-BRITE#DW A E 51L-840-4-UNV) SHALL BE PROVIDED IN THE ELEVATOR SHAFT: ONE LOCATED ADJACENT TO THE PIT LADDER AS HIGH AS POSSIBLE AND ONE ON THE OPPOSITE WALL AT THE TOP OF THE HOISTWAY. EACH FIXTURE SHALL BE CONTROLLED BY A SWITCH LOCATED ADJACENT TO THE ELEVATOR SHAFT OPENING AND ON THE SAME LEVEL AS THE FIXTURE BEING CONTROLLED. PROVIDE ONE GFI RECEPTACLE IN THE ELEVATOR PIT. ALL DEVICES SHALL BE IN NEMA 4 ENCLOSURES. COORDINATE EXACT LOCATIONS WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN.
4. ELEVATOR AUTOMATIC SHUTDOWN SWITCH SHALL BE LOCATED IN CLOSET DEDICATED TO ELEVATOR EQUIPMENT AND ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY. IN ADDITION A NON FUSED LOCKABLE IN THE OPEN POSITION DISCONNECT SHALL BE PROVIDED IN THE ELEVATOR SHAFT WITHIN SIGHT OF THE MOTOR CONTROLLER. PROVIDE PER SPECIFICATION 26 09 14. MAKE ALL CONNECTIONS TO ELEVATOR CONTROLLER AS REQUIRED BY ELEVATOR MANUFACTURER AND VERIFY ELEVATOR EQUIPMENT LOCATIONS WITH ELEVATOR SUPPLIER BEFORE ELECTRICAL ROUGH-IN. COORDINATE FUSE, DISCONNECT SWITCH , CIRCUIT BREAKER, CONDUCTOR AND CONDUIT SIZES FOR ELEVATOR WITH THE ELEVATOR SUPPLIER RECOMMENDATION(S) AND REQUIREMENTS PRIOR TO SUBMITTING CONTROLLER BY DIVISION 26. COORDINATE LOCATION OF CONTROLLER WITH ELEVATOR INSTALLER IN FIELD.
5. PROVIDE RECEPTACLE AND SWITCH FOR SUMP PUMP IN ELEVATOR PIT ALL IN NEMA 4 ENCLOSURES. COORDINATE LOCATION OF RECEPTACLE AND SWITCH WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
6. PROVIDE CONTACTOR FOR WATER FOUNTAIN CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS.
7. UVC LIGHT. ACCESS DOOR KILL SWITCH BY MECHANICAL. PROVIDE CONTACTOR FOR CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS. CONTRACTOR SHALL FIELD VERIFY MANUFACTURER ELECTRICAL REQUIREMENTS.

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

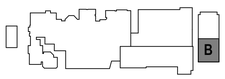
1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN

NORTH: PLAN TRUE



STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/01/08

CHECKED BY: OT

DRAWN BY: LT

1ST FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN

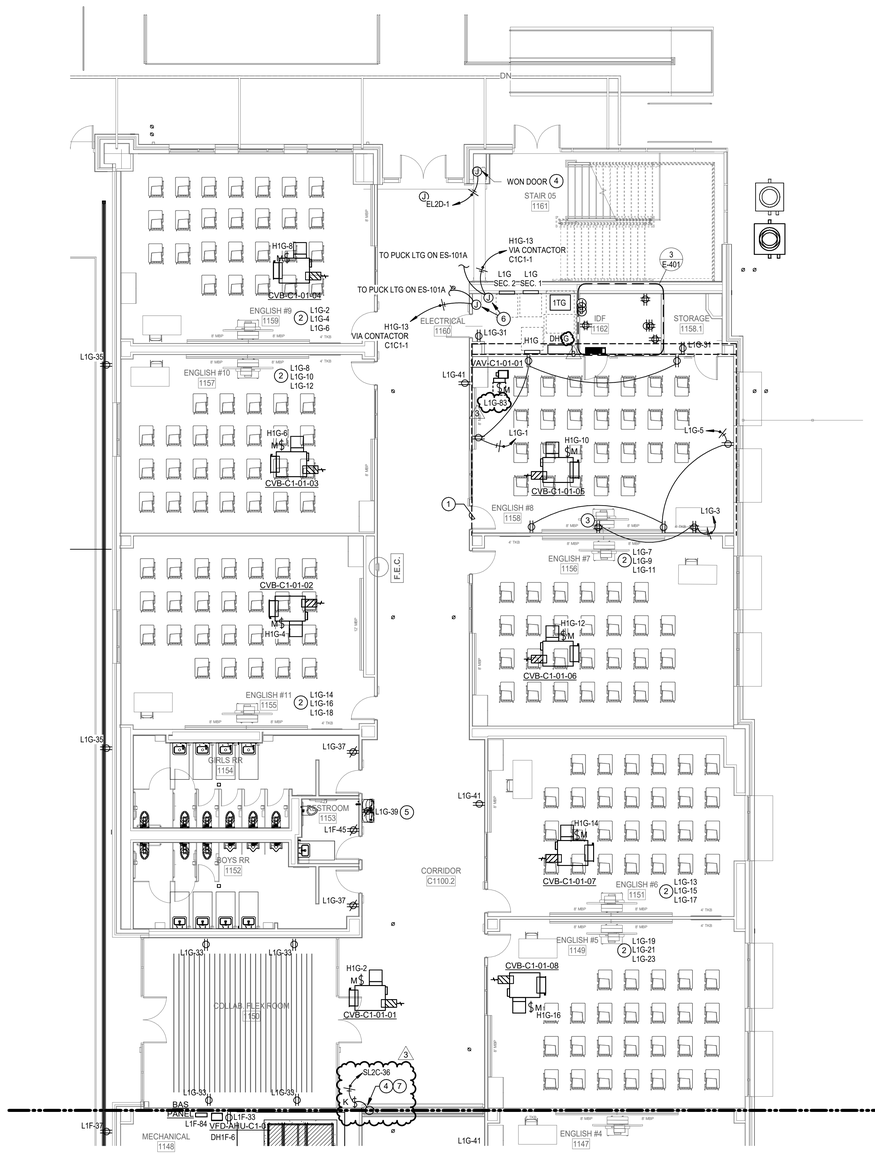
E-101B

Plot Stamp:
1/7/2026 7:44:04 PM

0"
1"

1ST FLOOR POWER PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-101C

FOR BLUEBEAM LABELING/OCR:



1 1ST FLOOR POWER PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
1/8/2026 4:09:43 PM

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

1. AREA INDICATED TYPICAL CLASSROOM DEVICE LAYOUT AND CIRCUIT CONFIGURATION.
2. PROVIDE TYPICAL CLASSROOM DEVICE LAYOUT AND BRANCH CIRCUIT CONFIGURATION AND ADDITIONAL CIRCUITING AND DEVICES WHERE INDICATED. REFER TO KEYED NOTE #1 FOR TYPICAL CLASSROOM. REFER TO PANEL SCHEDULES FOR CIRCUITS DESIGNATED TO SERVE THIS AREA.
3. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
4. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
5. PROVIDE CONTACTOR FOR WATER FOUNTAIN CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS.
6. REMOTE DRIVER FOR PUCK LIGHT. CONTRACTOR SHALL FIELD COORDINATE ROUTING OF LOW VOLTAGE WIRING TO HAND RAIL PUCK.
7. POWER FOR SECURITY GRILL. COORDINATE KEYED SWITCH LOCATION WITH ARCHITECT. (3)

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

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C

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

1ST FLOOR POWER PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-101C

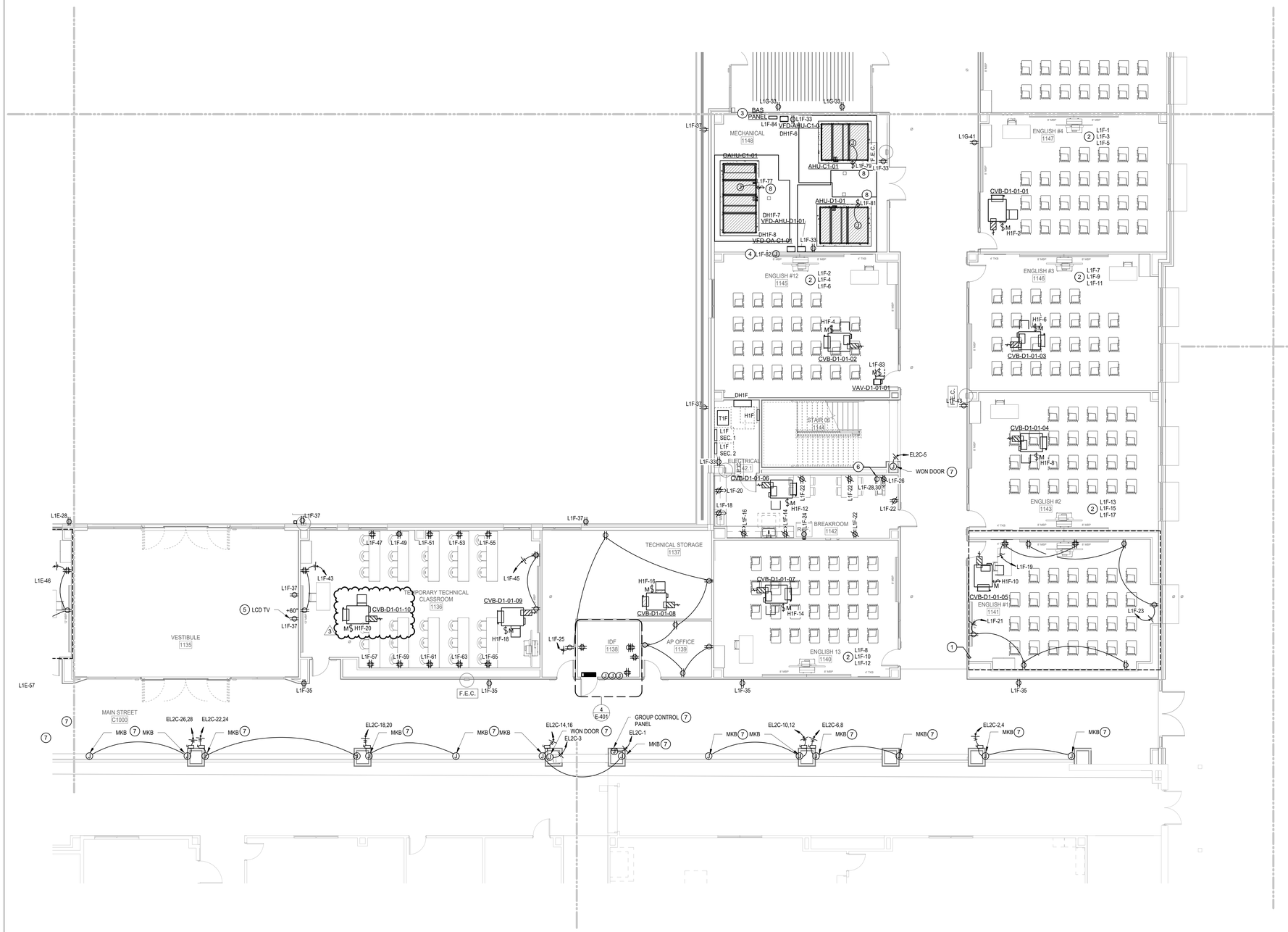
1ST FLOOR POWER PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-101D

FOR BLUEBEAM LABELING/OCR:

0"

1"



POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

1. AREA INDICATED TYPICAL CLASSROOM DEVICE LAYOUT AND CIRCUIT CONFIGURATION.
2. PROVIDE TYPICAL CLASSROOM DEVICE LAYOUT AND BRANCH CIRCUIT CONFIGURATION AND ADDITIONAL CIRCUITING AND DEVICES WHERE INDICATED. REFER TO KEYED NOTE #1 FOR TYPICAL CLASSROOM. REFER TO PANEL SCHEDULES FOR CIRCUITS DESIGNATED TO SERVE THIS AREA.
3. JUNCTION BOX FOR HARDWIRED POWER CONNECTION FOR MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALLATION.
4. JUNCTION BOX FOR ELECTRONIC TRAP PRIMER. REFER TO PLUMBING CONTRACTOR FOR EXACT LOCATION, MOUNTING AND ADDITIONAL INFORMATION..
5. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
6. PROVIDE POWER TO COPIER. VERIFY EXACT NEMA CONFIGURATION WITH COPIER MANUFACTURER PRIOR TO ROUGH-IN.
7. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
8. UVC LIGHT. ACCESS DOOR KILL SWITCH BY MECHANICAL. PROVIDE CONTACTOR FOR CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS. CONTRACTOR SHALL FIELD VERIFY MANUFACTURER ELECTRICAL REQUIREMENTS.

1 1ST FLOOR POWER PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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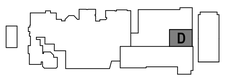
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN

NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61535
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/01/08

CHECKED BY: OT

DRAWN BY: LT

1ST FLOOR POWER PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

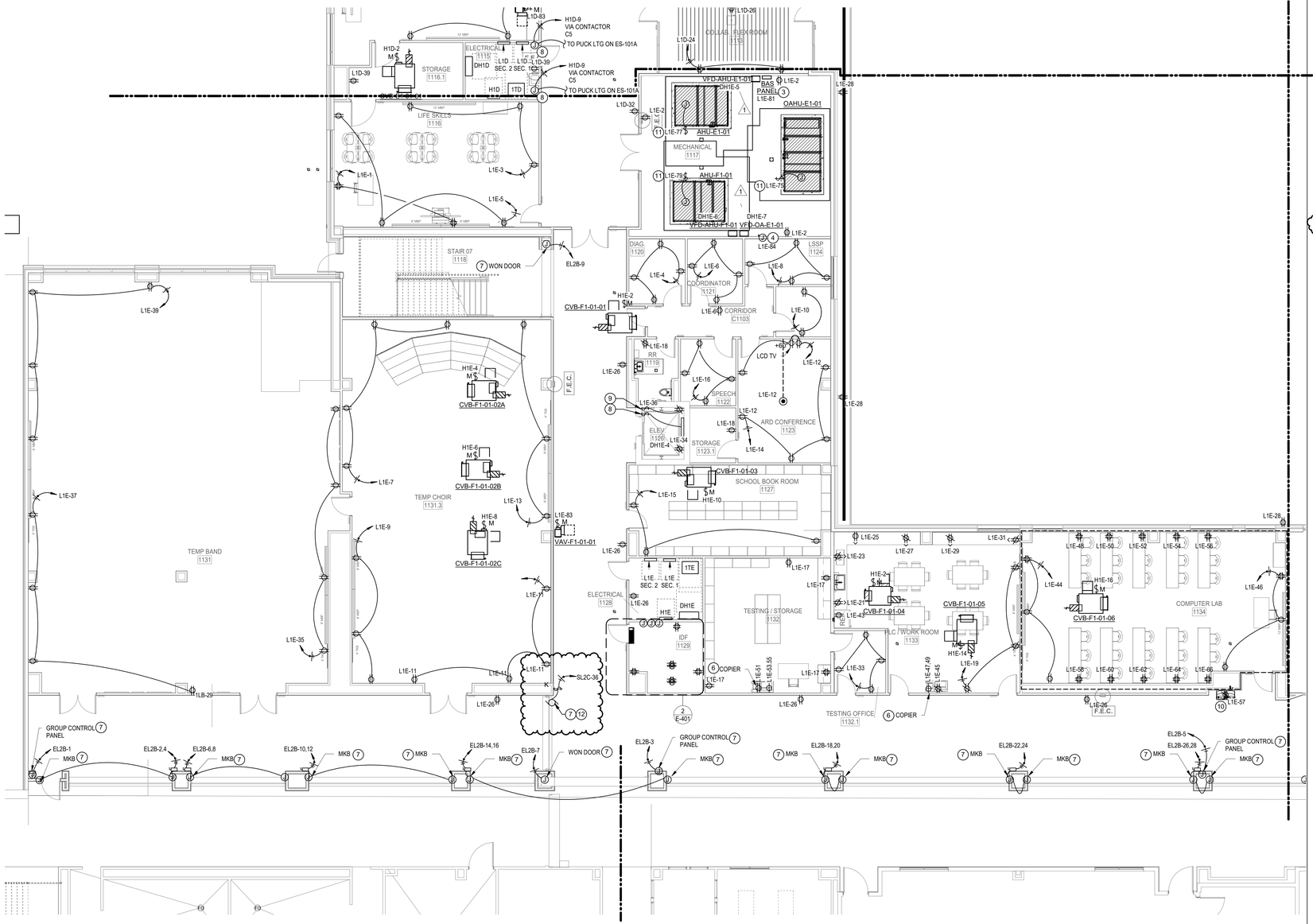
E-101D

Plot Stamp:
1/7/2026 7:44:14 PM

0"
1"

1ST FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-101F

FOR BLUEBEAM LABELING/OCR:



1 1ST FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

1. AREA INDICATED TYPICAL CLASSROOM DEVICE LAYOUT AND CIRCUIT CONFIGURATION.
2. PROVIDE TYPICAL CLASSROOM DEVICE LAYOUT AND BRANCH CIRCUIT CONFIGURATION AND ADDITIONAL CIRCUITING AND DEVICES WHERE INDICATED. REFER TO KEYED NOTE #1 FOR TYPICAL CLASSROOM. REFER TO PANEL SCHEDULES FOR CIRCUITS DESIGNATED TO SERVE THIS AREA.
3. JUNCTION BOX FOR HARDWIRED POWER CONNECTION FOR MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALLATION.
4. JUNCTION BOX FOR ELECTRONIC TRAP PRIMER. REFER TO PLUMBING CONTRACTOR FOR EXACT LOCATION, MOUNTING AND ADDITIONAL INFORMATION..
5. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
6. PROVIDE POWER TO APPLIANCE. VERIFY EXACT NEMA CONFIGURATION WITH MANUFACTURER PRIOR TO ROUGH-IN.
7. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
8. TWO LIGHT FIXTURES (DAY-BRITE#DW A E 51L-840-4-UNV) SHALL BE PROVIDED IN THE ELEVATOR SHAFT: ONE LOCATED ADJACENT TO THE PIT LADDER AS HIGH AS POSSIBLE AND ONE ON THE OPPOSITE WALL AT THE TOP OF THE HOISTWAY. EACH FIXTURE SHALL BE CONTROLLED BY A SWITCH LOCATED ADJACENT TO THE ELEVATOR SHAFT OPENING AND ON THE SAME LEVEL AS THE FIXTURE BEING CONTROLLED. PROVIDE ONE GFI RECEPTACLE IN THE ELEVATOR PIT. ALL DEVICES SHALL BE IN NEMA 4 ENCLOSURES. COORDINATE EXACT LOCATIONS WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN.
9. PROVIDE RECEPTACLE AND SWITCH FOR SUMP PUMP IN ELEVATOR PIT ALL IN NEMA 4 ENCLOSURES. COORDINATE LOCATION OF RECEPTACLE AND SWITCH WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
10. PROVIDE CONTACTOR FOR WATER FOUNTAIN CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS.
11. UVC LIGHT. ACCESS DOOR KILL SWITCH BY MECHANICAL. PROVIDE CONTACTOR FOR CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS. CONTRACTOR SHALL FIELD VERIFY MANUFACTURER ELECTRICAL REQUIREMENTS.
12. POWER FOR SECURITY GRILL. COORDINATE KEYED SWITCH LOCATION WITH ARCHITECT.

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

1ST FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

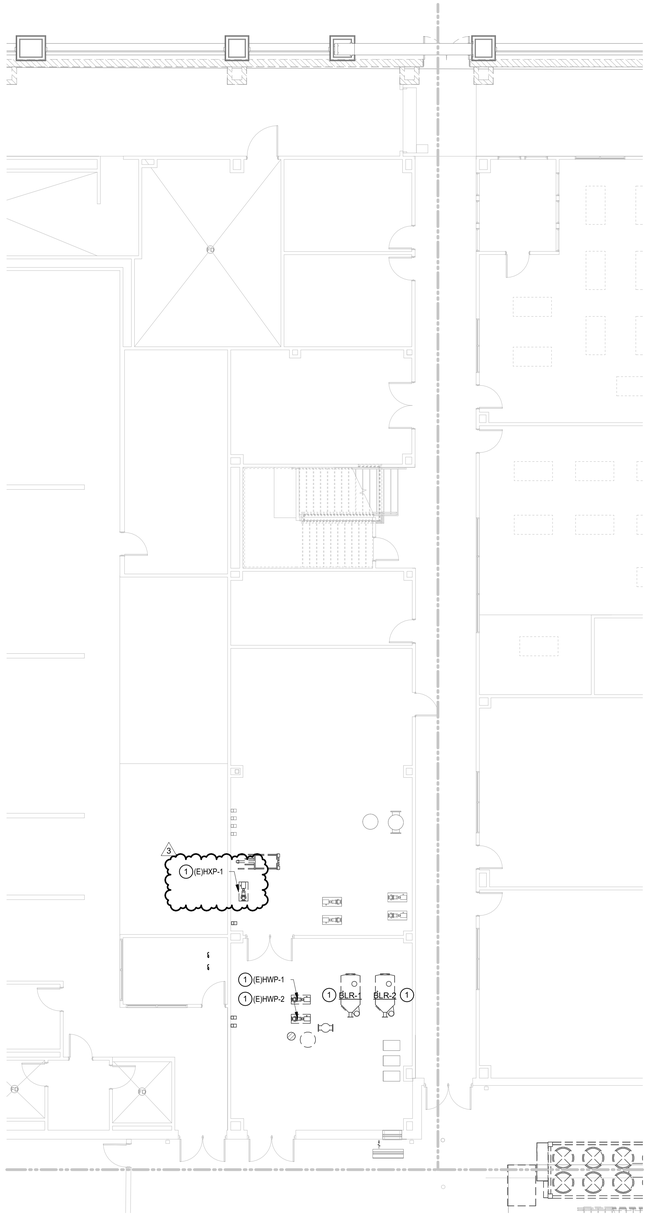
E-101F

Plot Stamp:
1/8/2026 4:09:50 PM

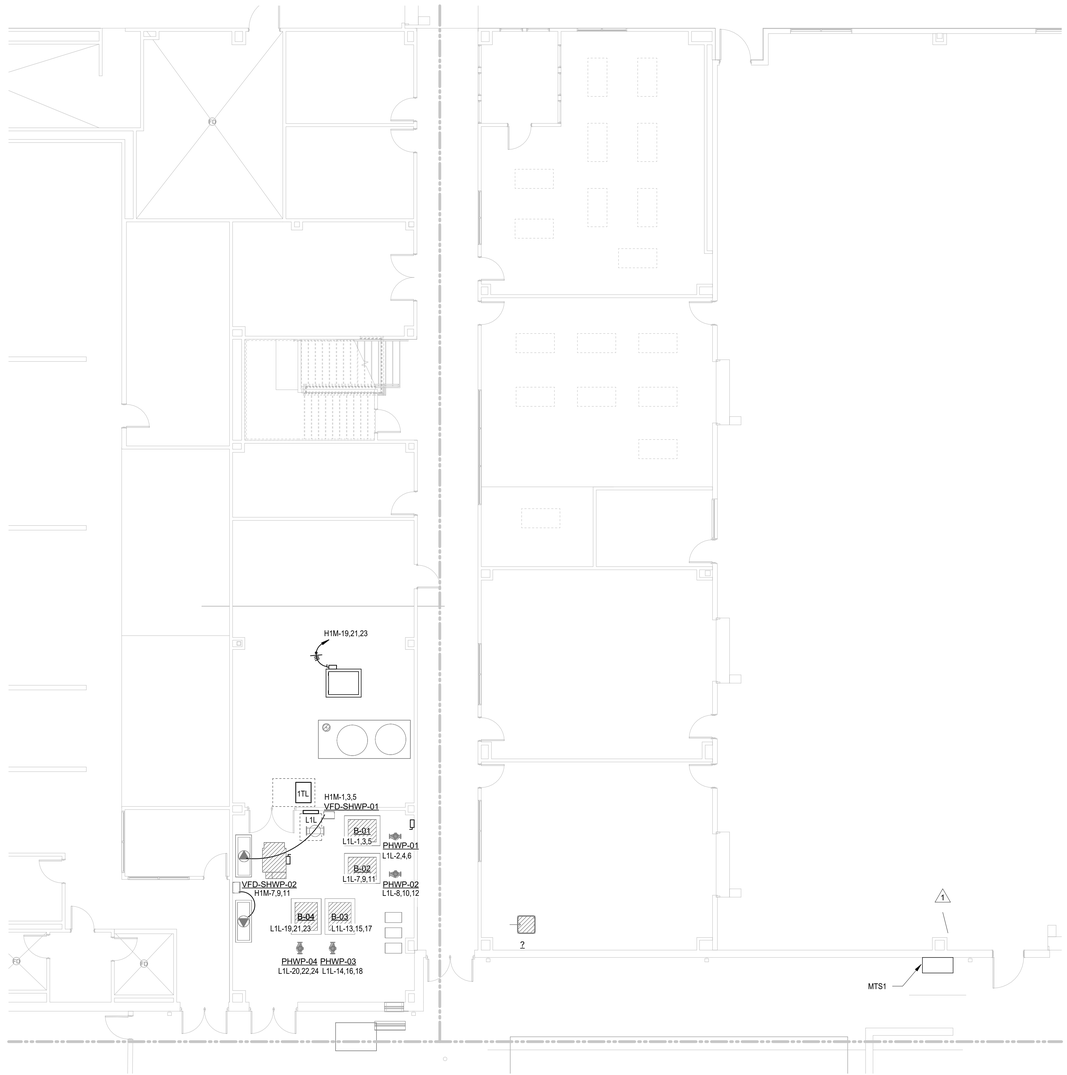
0"
1"

1ST FLOOR POWER PLAN - AREA H - CTE
E-101H

FOR BLUEBEAM LABELING/DOCR:



1 1ST FLOOR TEMPORARY POWER DEMO PLAN - AREA H - CTE
SCALE: 1/8" = 1'-0"



2 1ST FLOOR TEMPORARY POWER PLAN - AREA H - CTE
SCALE: 1/8" = 1'-0"

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

(1) POWER FOR EXISTING EQUIPMENT SHALL BE DEMOLISHED BACK TO PANEL AND MADE SAFE. UPDATE AFFECTED PANEL SCHEDULE REFLECTING REMOVED LOAD.

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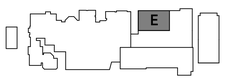
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN

NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
3	ADD 05	2026/01/08

CHECKED BY: OT

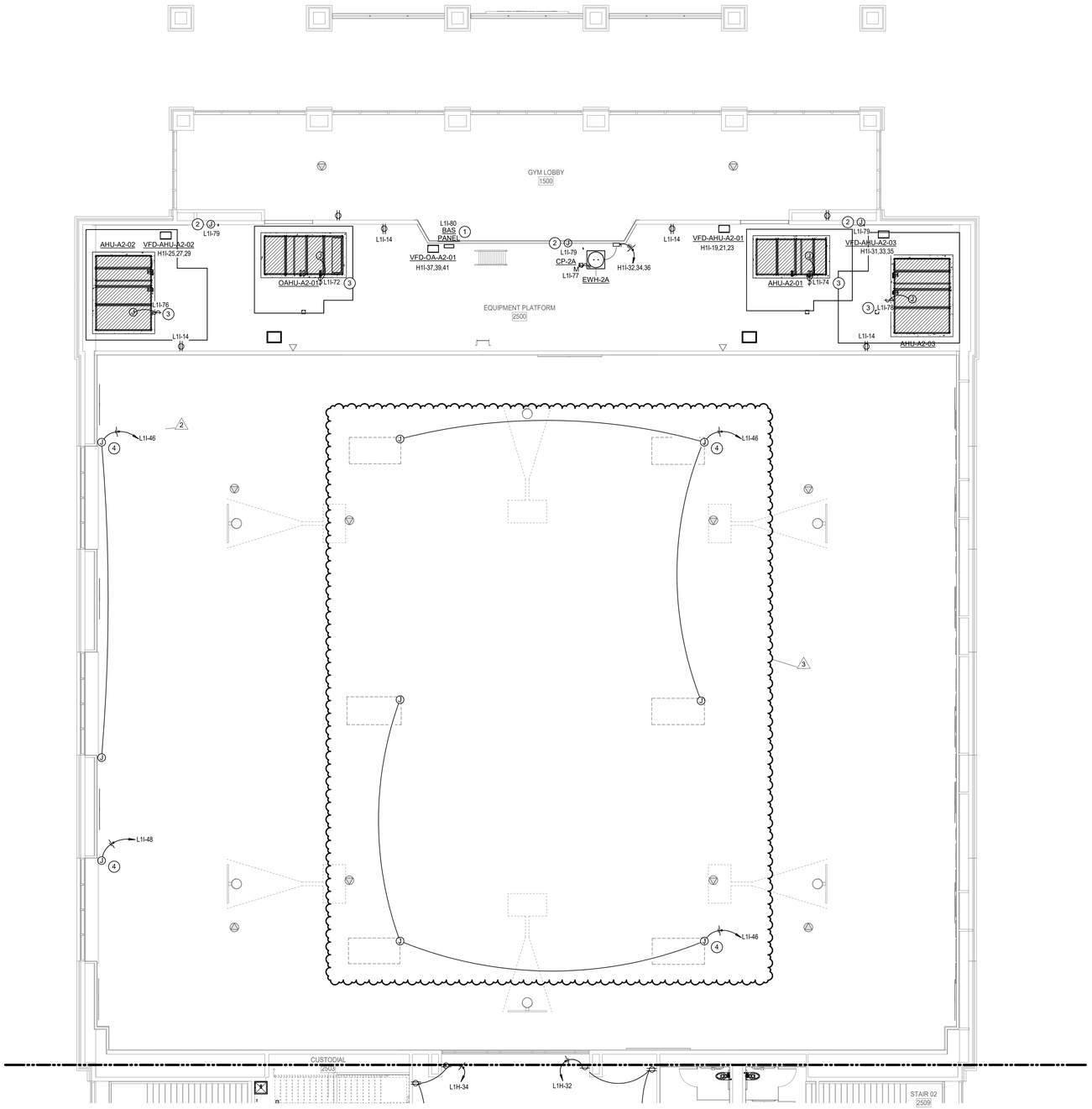
DRAWN BY: LT

1ST FLOOR POWER PLAN - AREA H - CTE

E-101H

Plot Stamp:
1/7/2026 7:44:15 PM

2ND FLOOR POWER PLAN - AREA A NEW GYM FLOOR PLAN
E-102A
FOR BLUEBEAM LABELING/OCR:



1 2ND FLOOR POWER PLAN - AREA A NEW GYM FLOOR PLAN
SCALE: 1/8" = 1'-0"

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
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POWER PLAN KEYED NOTES

1. JUNCTION BOX FOR HARDWIRED POWER CONNECTION FOR MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALLATION.
2. ELECTRONIC TRAP PRIMER. COORDINATE EXACT LOCATION AND ALL POWER REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN
3. UVC LIGHT. ACCESS DOOR KILL SWITCH BY MECHANICAL. PROVIDE CONTACTOR FOR CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS. CONTRACTOR SHALL FIELD VERIFY MANUFACTURER ELECTRICAL REQUIREMENTS.
4. JUNCTION BOX POWER TO MOTORIZED SHADES. REFER TO SHADE MANUFACTURER WIRING DIAGRAM FOR EXACT TERMINATION REQUIREMENTS. REFER TO ARCHITECT FOR LOCATION OF SHADE CONTROLLER.

2

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR POWER PLAN - AREA A NEW GYM FLOOR PLAN

E-102A

Plot Stamp:
1/8/2026 4:09:46 PM

2ND FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN
E-102B

FOR BLUEBEAM LABELING/DOCR:

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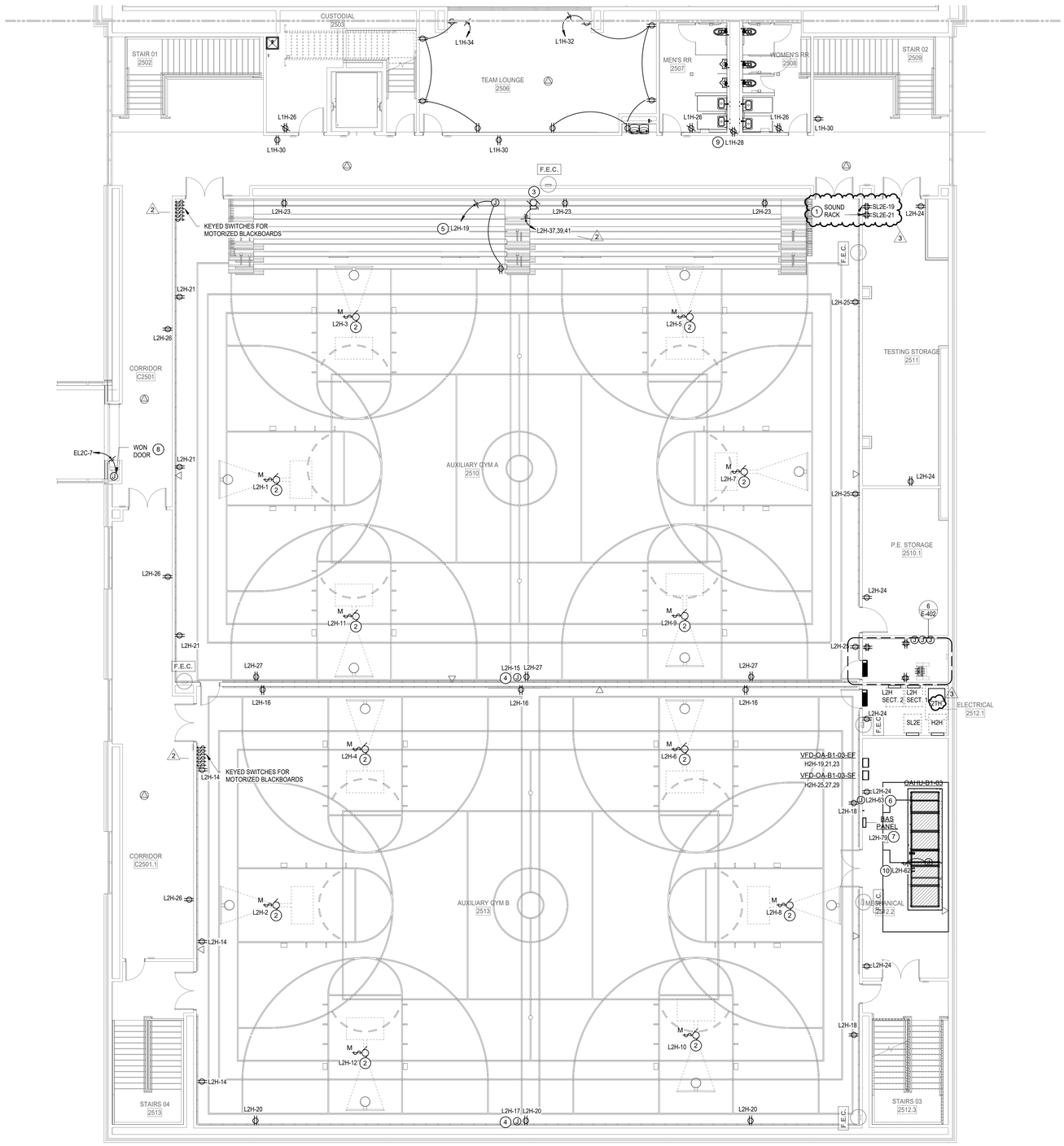

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
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POWER PLAN KEYED NOTES

1. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
2. PROVIDE POWER TO MOTORIZED BACKBOARD. VERIFY EXACT POWER REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. PROVIDE KEYED SWITCH FOR CONTROL OF EACH GOAL.
3. PROVIDE POWER FOR MOTORIZED BLEACHERS. PROVIDE ALL CONNECTIONS TO BLEACHERS PER MANUFACTURE'S INSTRUCTIONS.
4. PROVIDE POWER TO SCOREBOARD. VERIFY EXACT MOUNTING HEIGHT/LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
5. PROVIDE 'SO' CORD FROM JUNCTION BOX TO RECEPTACLE MOUNTED IN FACE OF BLEACHERS. LENGTH AS REQUIRED FOR FULL BLEACHER EXTENSION.
6. ELECTRONIC TRAP PRIMER. COORDINATE EXACT LOCATION AND ALL POWER REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN
7. JUNCTION BOX FOR HARDWIRED POWER CONNECTION FOR MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALLATION.
8. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
9. PROVIDE CONTACTOR FOR WATER FOUNTAIN CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS.
10. UVC LIGHT. ACCESS DOOR KILL SWITCH BY MECHANICAL. PROVIDE CONTACTOR FOR CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS. CONTRACTOR SHALL FIELD VERIFY MANUFACTURER ELECTRICAL REQUIREMENTS.

1 **2ND FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
BUILDING REAL FUTURES

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR POWER PLAN - AREA B NEW GYM FLOOR PLAN

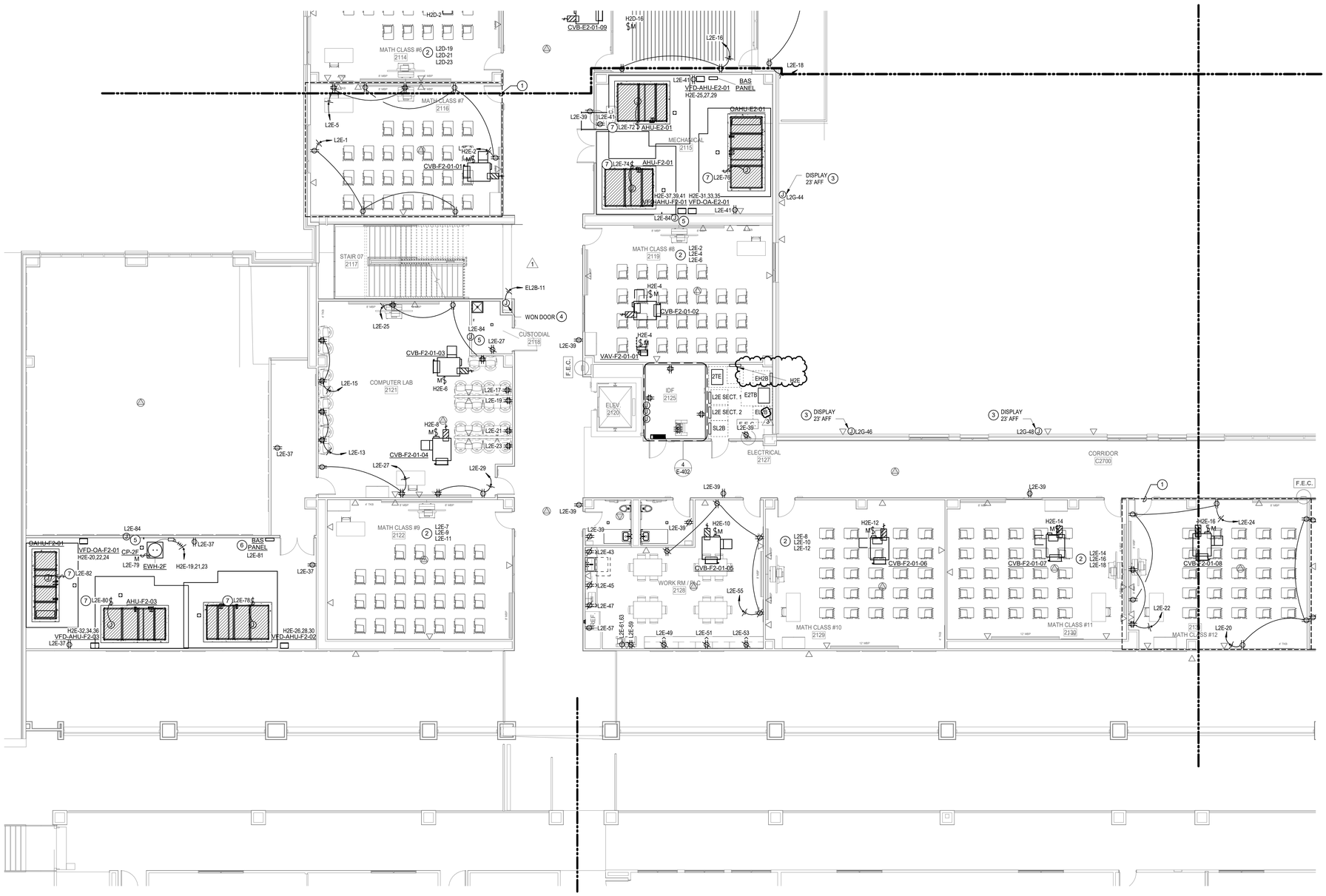
E-102B

Plot Stamp:
1/7/2026 7:44:20 PM

2ND FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-102F

FOR BLUEBEAM LABELING/OCR:



1 **2ND FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
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4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

1. AREA INDICATED TYPICAL CLASSROOM DEVICE LAYOUT AND CIRCUIT CONFIGURATION.
2. PROVIDE TYPICAL CLASSROOM DEVICE LAYOUT AND BRANCH CIRCUIT CONFIGURATION AND ADDITIONAL CIRCUITING AND DEVICES WHERE INDICATED. REFER TO KEYED NOTE #1 FOR TYPICAL CLASSROOM. REFER TO PANEL SCHEDULES FOR CIRCUITS DESIGNATED TO SERVE THIS AREA.
3. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
4. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
5. JUNCTION BOX FOR ELECTRONIC TRAP PRIMER. REFER TO PLUMBING CONTRACTOR FOR EXACT LOCATION, MOUNTING AND ADDITIONAL INFORMATION.
6. JUNCTION BOX FOR HARDWIRED POWER CONNECTION FOR MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALLATION.
7. UVC LIGHT. ACCESS DOOR KILL SWITCH BY MECHANICAL. PROVIDE CONTACTOR FOR CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS. CONTRACTOR SHALL FIELD VERIFY MANUFACTURER ELECTRICAL REQUIREMENTS.

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

ISSUE FOR PROPOSAL

1000 Keene St.
Galena Park, TX 77547

Galena Park ISD

KEY PLAN

NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
3	ADD 05	2026/01/08

CHECKED BY: OT

DRAWN BY: LT

2ND FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-102F

Plot Stamp:
1/8/2026 4:09:49 PM

3RD FLOOR POWER PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN-E-103C

FOR BLUEBEAM LABELING/OCR:

0"
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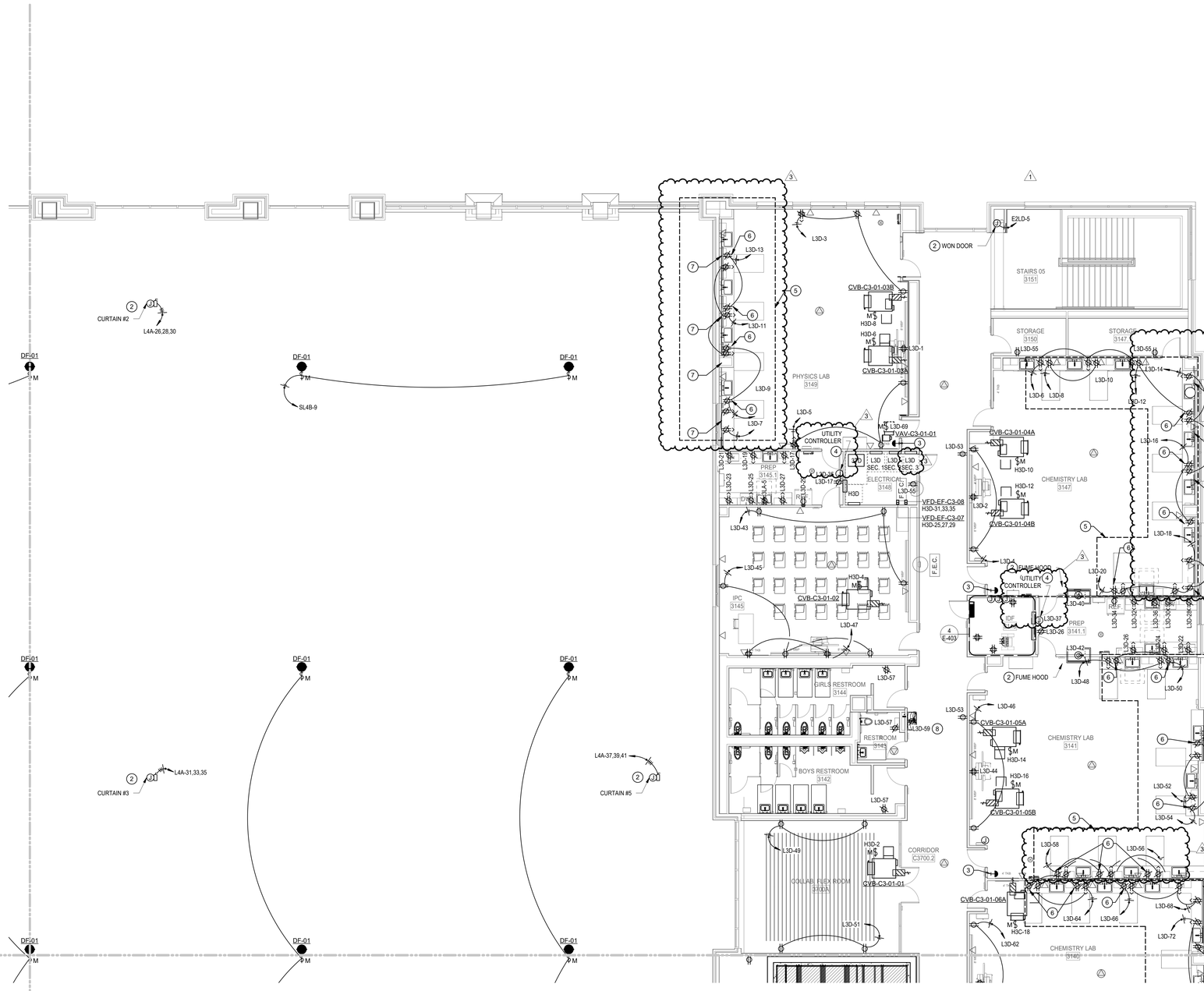

1 3RD FLOOR POWER PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

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

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
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4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

1. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
2. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
3. EMERGENCY POWER OFF PUSHBUTTON. PROVIDE CLEAR COVER WITH SOUNDER. PROVIDE CONTACTOR FOR SHUTOFF OF LAB ROOM BENCHTOP RECEPTACLES. SEE SHEET NOTE 5. BUTTON SHALL ALSO CLOSE GAS AND WATER SOLENOID VALVES SERVING THE ROOM. REFER TO DETAIL #2 ON SHEET P-603 FOR ADDITIONAL INFORMATION.
4. JUNCTION BOX FOR POWER TO LAB SHUTDOWN UTILITY CONTROLLER. REFER TO DETAIL #2 ON SHEET P-603 FOR ADDITIONAL INFORMATION.
5. RECEPTACLES IN INDICATED AREA SHALL BE CONTROLLED BY EMERGENCY POWER OFF PUSHBUTTON.
6. UNDER COUNTER RECEPTACLE. COORDINATE FINAL LOCATION WITH CASEWORK DRAWINGS.
7. LEGRAND WIREMOLD 3000 SERIES RACEWAY FOR ABOVE COUNTER RECEPTACLES, MOUNT AGAINST BACKSPLASH. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ALL PARTS FOR A COMPLETE SYSTEM. COORDINATE WITH WITH CASEWORK DRAWINGS.
8. PROVIDE CONTACTOR FOR WATER FOUNTAIN CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS.

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

C

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
3	ADD 05	2026/01/08

CHECKED BY: OT

DRAWN BY: LT

3RD FLOOR POWER PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-103C

Plot Stamp:
1/7/2026 7:44:35 PM

3RD FLOOR POWER PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-103D

FOR BLUEBEAM LABELING/OCR:

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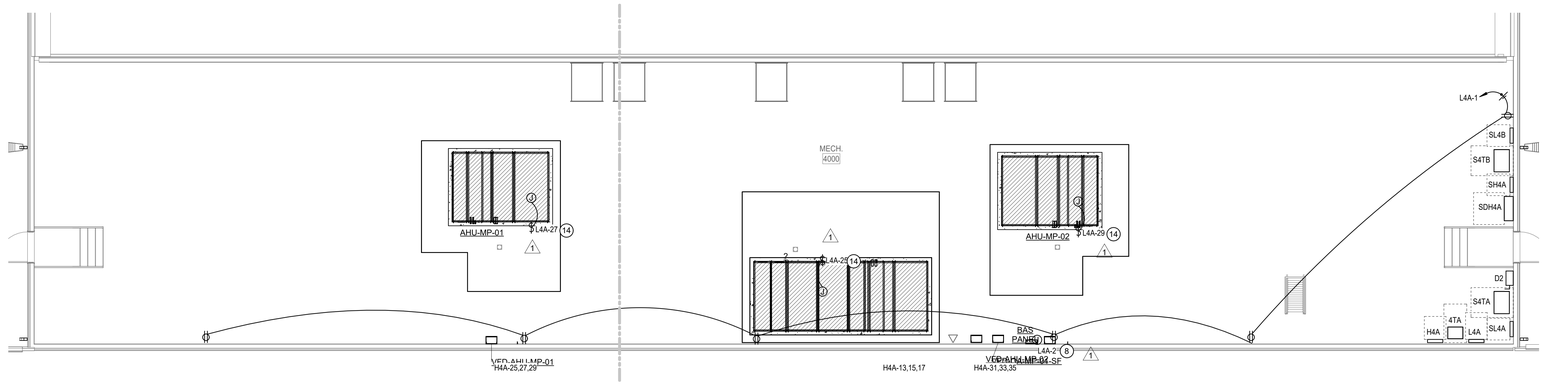
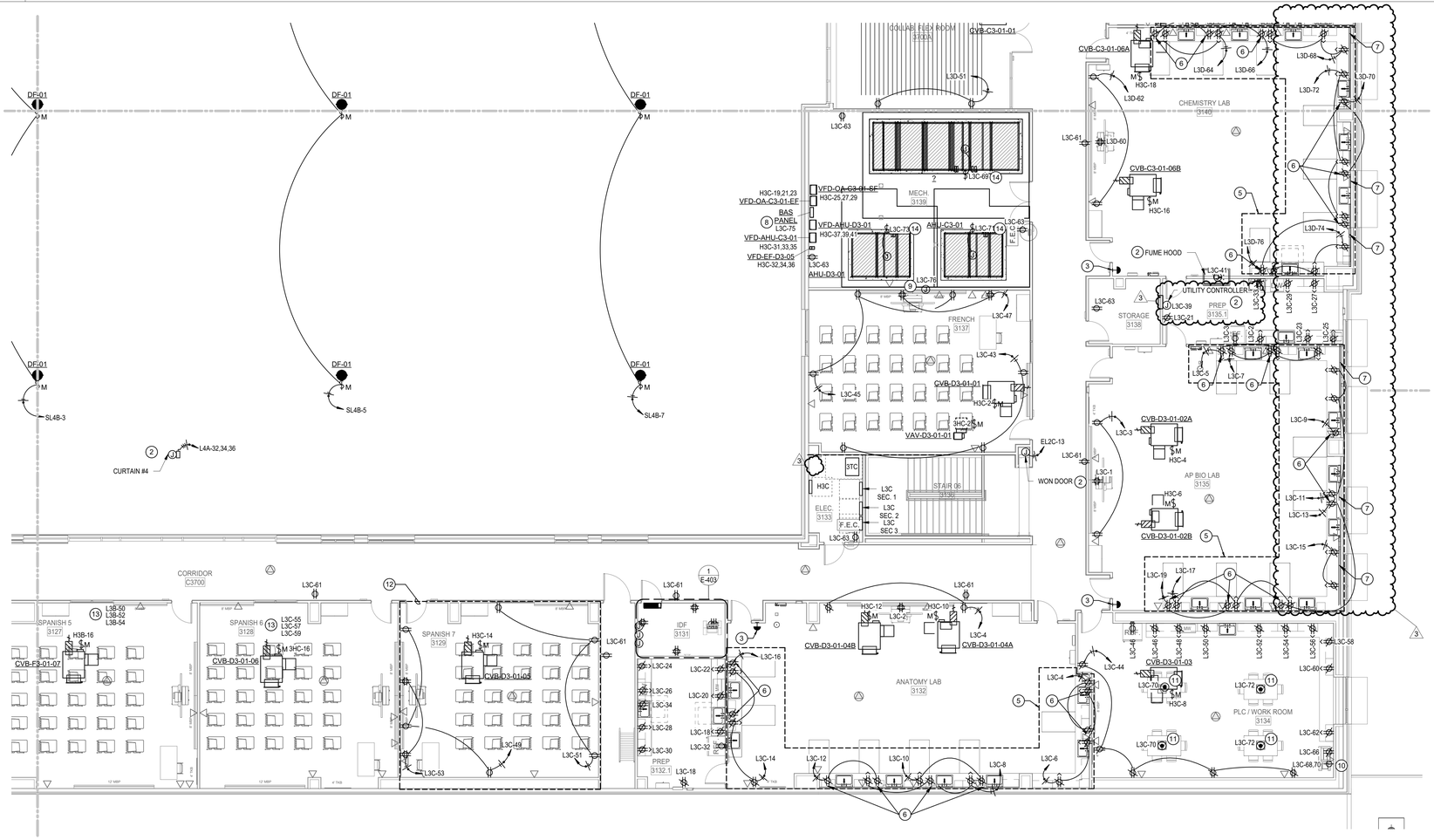
1"



2 POWER MECH ROOM PLAN

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



1 3RD FLOOR POWER PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

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

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

1. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
2. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
3. EMERGENCY POWER OFF PUSHBUTTON. PROVIDE CLEAR COVER WITH SOUNDER. PROVIDE CONTACTOR FOR SHUTOFF OF LAB ROOM BENCHTOP RECEPTACLES, SEE SHEET NOTE 5. BURNER VALVE, GAS CASES AND WATER SOLENOID VALVES SERVING THIS ROOM. REFER TO DETAIL 2 ON SHEET P-603 FOR ADDITIONAL INFORMATION.
4. JUNCTION BOX FOR POWER TO LAB SHUTDOWN UTILITY CONTROLLER. REFER TO DETAIL #2 ON SHEET P-603 FOR ADDITIONAL INFORMATION.
5. RECEPTACLES IN INDICATED AREA SHALL BE CONTROLLED BY EMERGENCY POWER OFF PUSHBUTTON.
6. UNDER COUNTER RECEPTACLE. COORDINATE FINAL LOCATION WITH CASEWORK DRAWINGS.
7. LEGRAND WIREMOLD 3000 SERIES RACEWAY COUNTER MOUNT AGAINST BACKSPLASH FOR ABOVE COUNTER RECEPTACLES. COORDINATE WITH ARCHITECT FOR FINISH. PROVIDE ALL PARTS FOR A COMPLETE SYSTEM. COORDINATE WIDTH WITH CASEWORK DRAWINGS.
8. JUNCTION BOX FOR HARDWIRED POWER CONNECTION FOR MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALLATION.
9. JUNCTION BOX FOR ELECTRONIC TRAP PRIMER. REFER TO PLUMBING CONTRACTOR FOR EXACT LOCATION, MOUNTING AND ADDITIONAL INFORMATION.
10. PROVIDE POWER TO APPLIANCE. VERIFY EXACT NEMA CONFIGURATION WITH MANUFACTURER PRIOR TO ROUGH-IN.
11. PROVIDE 4-GANG FLOOR BOX WIREMOLD EVOLUTION #RFB4. PROVIDE (2) DUPLEX RECEPTACLES AND 3/4" CONDUIT FOR POWER AND (1) 1-1/2" CONDUIT WITH PULLSTRINGS FOR DATA; ROUTE UNDERSLAB TO NEAREST FULL HEIGHT WALL AND UP TO ACCESSIBLE CEILING PLENUM. DO NOT DAISY CONDUIT TO FLOOR BOXES.
12. AREA INDICATED TYPICAL CLASSROOM DEVICE LAYOUT AND CIRCUIT CONFIGURATION.
13. PROVIDE TYPICAL CLASSROOM DEVICE LAYOUT AND BRANCH CIRCUIT CONFIGURATION AND ADDITIONAL CIRCUITING AND DEVICES WHERE INDICATED. REFER TO KEYED NOTE #1 FOR TYPICAL CLASSROOM. REFER TO PANEL SCHEDULES FOR CIRCUITS DESIGNATED TO SERVE THIS AREA.
14. UVC LIGHT. ACCESS DOOR KILL SWITCH BY MECHANICAL. PROVIDE CONTACTOR FOR CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS. CONTRACTOR SHALL FIELD VERIFY MANUFACTURER ELECTRICAL REQUIREMENTS.

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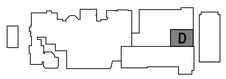

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
3	ADD 05	2026/01/08

CHECKED BY: OT

DRAWN BY: LT

3RD FLOOR POWER PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-103D

Plot Stamp:
1/7/2026 7:44:42 PM

3RD FLOOR POWER PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN E-103E

FOR BLUEBEAM LABELING/OCR:

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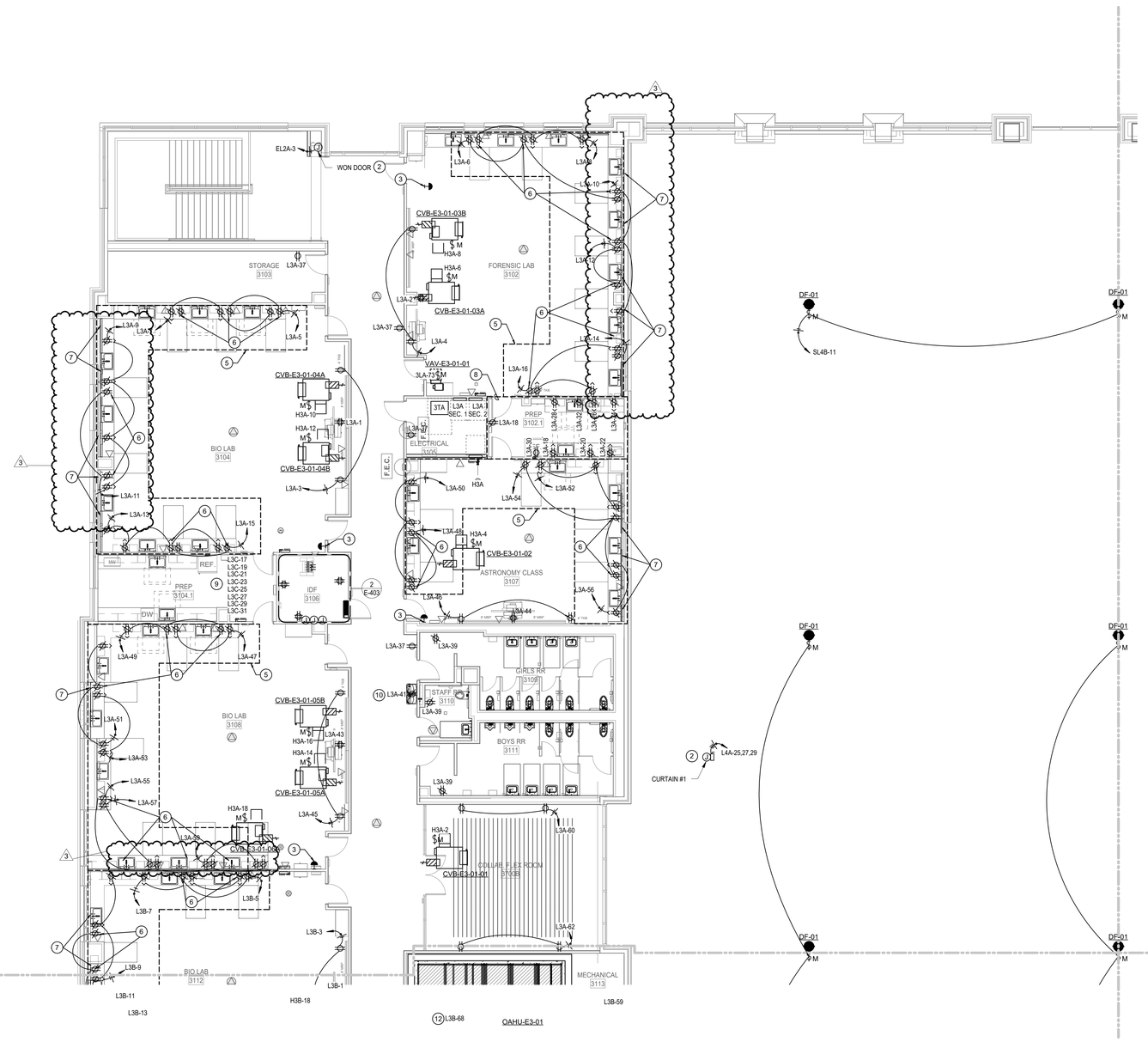
1"



1 3RD FLOOR POWER PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

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

POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

1. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
2. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
3. EMERGENCY POWER OFF PUSHBUTTON. PROVIDE CLEAR COVER WITH SOUNDER. PROVIDE CONTACTOR FOR SHUTOFF OF LAB ROOM BENCHTOP RECEPTACLES, SEE SHEET NOTE 5. BUZZ-IN/DOOR OPENER DEVICES AND WATER SOLENOID VALVES SERVING THIS ROOM. REFER TO DETAIL #2 ON SHEET P-603 FOR ADDITIONAL INFORMATION.
4. JUNCTION BOX FOR POWER TO LAB SHUTDOWN UTILITY CONTROLLER. REFER TO DETAIL #2 ON SHEET P-603 FOR ADDITIONAL INFORMATION.
5. RECEPTACLES IN INDICATED AREA SHALL BE CONTROLLED BY EMERGENCY POWER OFF PUSHBUTTON.
6. UNDER COUNTER RECEPTACLE. COORDINATE FINAL LOCATION WITH CASEWORK DRAWINGS.
7. LEGRAND WIREMOLD 3000 SERIES RACEWAY FOR ABOVE COUNTER RECEPTACLES. COUNTER MOUNT AGAINST BACKSPLASH. COORDINATE QUANTITY AND LENGTH OF ALL PARTS FOR A COMPLETE SYSTEM. COORDINATE WIDTH WITH CASEWORK DRAWINGS.
8. AREA INDICATED TYPICAL DEVICE LAYOUT AND CIRCUIT CONFIGURATION.
9. PROVIDE TYPICAL DEVICE LAYOUT AND BRANCH CIRCUIT CONFIGURATION AND ADDITIONAL CIRCUITING AND DEVICES WHERE INDICATED. REFER TO KEYED NOTE #1 FOR TYPICAL CLASSROOM. REFER TO PANEL SCHEDULES FOR CIRCUITS DESIGNATED TO SERVE THIS AREA.
10. PROVIDE CONTACTOR FOR WATER FOUNTAIN CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS.

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Galena Park ISD

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

3RD FLOOR POWER PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-103E

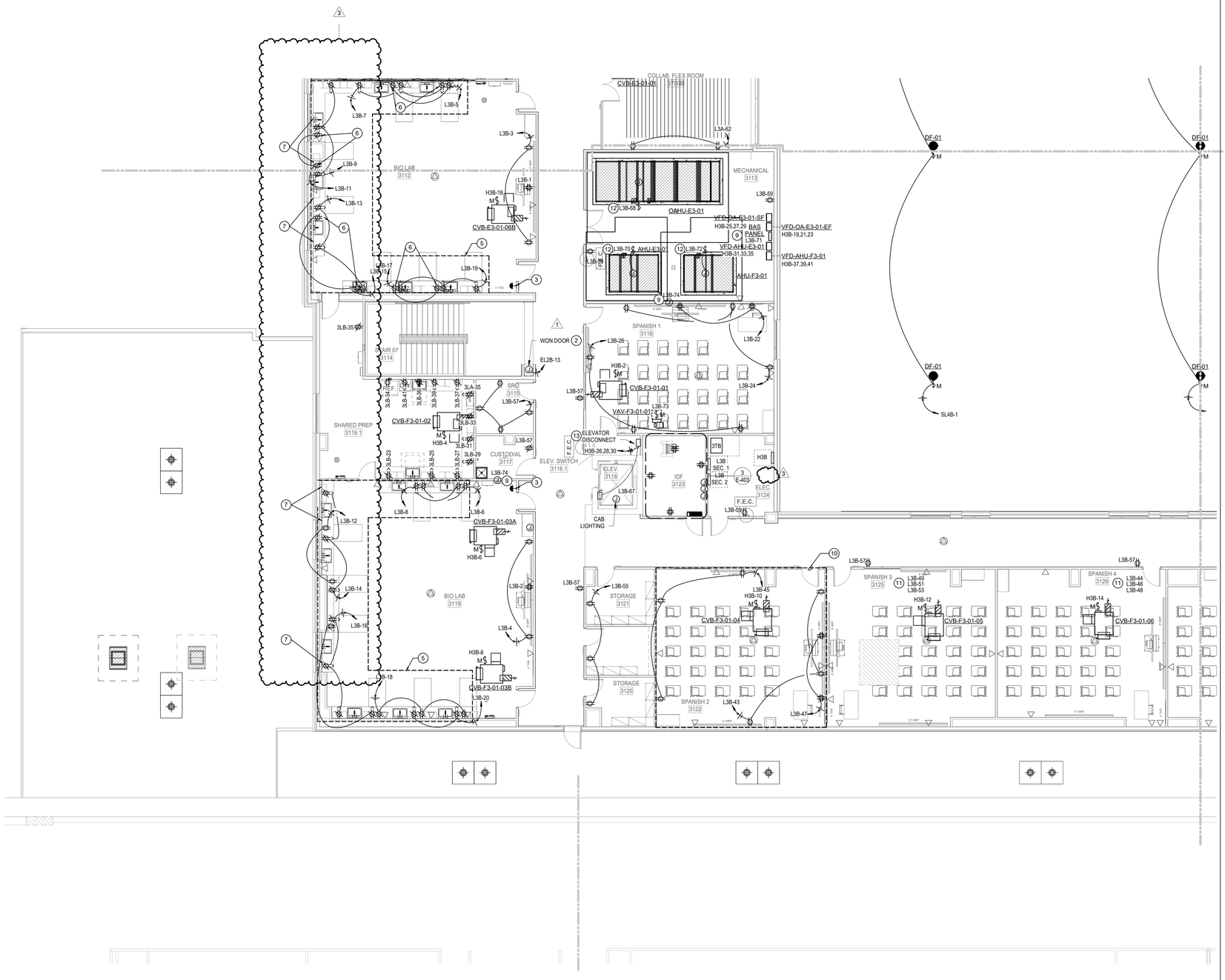
Plot Stamp:
1/7/2026 7:44:51 PM

3RD FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-103F

FOR BLUEBEAM LABELING/DOOR:

0"
1"



POWER PLAN GENERAL NOTES:

1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.

POWER PLAN KEYED NOTES

1. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
2. FIELD VERIFY FINAL POWER CONNECTION LOCATION AND REQUIREMENTS WITH MANUFACTURER REQUIREMENTS
3. EMERGENCY POWER OFF PUSHBUTTON. PROVIDE CLEAR COVER WITH SOUNDER. PROVIDE CONTACTOR FOR SHUTOFF OF LAB ROOM BENCHTOP RECEPTACLES. SEE SHEET NOTE 5. BUTTON SHALL BE LOCATED ADJACENT TO EXIT DOOR SERVING THIS ROOM. REFER TO DETAIL #2 ON SHEET P-603 FOR ADDITIONAL INFORMATION. /3
4. JUNCTION BOX FOR POWER TO LAB SHUTDOWN UTILITY CONTROLLER. REFER TO DETAIL #2 ON SHEET P-603 FOR ADDITIONAL INFORMATION.
5. RECEPTACLES IN INDICATED AREA SHALL BE CONTROLLED BY EMERGENCY POWER OFF PUSHBUTTON. /3
6. UNDER COUNTER RECEPTACLE. COORDINATE FINAL LOCATION WITH CASEWORK DRAWINGS.
7. LEGRAND WIREMOLD 3000 SERIES RACEWAY FOR ABOVE COUNTER RECEPTACLES, COUNTER MOUNT AGAINST BACKSPLASH. COORDINATE WITH ARCHITECT FOR FINISH. PROVIDE ALL PARTS FOR A COMPLETE SYSTEM. COORDINATE WIDTH WITH CASEWORK DRAWINGS.
8. JUNCTION BOX FOR HARDWIRED POWER CONNECTION FOR MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALLATION.
9. JUNCTION BOX FOR ELECTRONIC TRAP PRIMER. REFER TO PLUMBING CONTRACTOR FOR EXACT LOCATION, MOUNTING AND ADDITIONAL INFORMATION.
10. AREA INDICATED TYPICAL CLASSROOM DEVICE LAYOUT AND CIRCUIT CONFIGURATION.

    PROVIDE TYPICAL CLASSROOM DEVICE LAYOUT AND BRANCH CIRCUIT CONFIGURATION AND ADDITIONAL CIRCUITING AND DEVICES WHERE INDICATED. REFER TO KEYED NOTE #1 FOR TYPICAL CLASSROOM. REFER TO PANEL SCHEDULES FOR CIRCUITS DESIGNATED TO SERVE THIS AREA.
11. UVC LIGHT. ACCESS DOOR KILL SWITCH BY MECHANICAL. PROVIDE CONTACTOR FOR CIRCUIT. CONTACTOR SHALL BE CONTROLLED BY BAS. CONTRACTOR SHALL FIELD VERIFY MANUFACTURER ELECTRICAL REQUIREMENTS.

    ELEVATOR AUTOMATIC SHUTDOWN SWITCH SHALL BE LOCATED IN CLOSET DEDICATED TO ELEVATOR EQUIPMENT AND ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY. IN ADDITION A NON FUSED LOCKABLE IN THE OPEN POSITION DISCONNECT SHALL BE PROVIDED IN THE ELEVATOR SHAFT WITHIN SIGHT OF THE MOTOR CONTROLLER. PROVIDE PER SPECIFICATION 26 09 14. MAKE ALL CONNECTIONS TO ELEVATOR CONTROLLER AS REQUIRED BY ELEVATOR MANUFACTURER AND VERIFY ELEVATOR EQUIPMENT LOCATIONS WITH ELEVATOR SUPPLIER BEFORE ELECTRICAL ROUGH-IN. COORDINATE FUSE, DISCONNECT SWITCH , CIRCUIT BREAKER, CONDUCTOR AND CONDUIT SIZES FOR ELEVATOR WITH THE ELEVATOR SUPPLIER RECOMMENDATION(S) AND REQUIREMENTS PRIOR TO SUBMITTING CONTROLLER BY DIVISION 26. COORDINATE LOCATION OF CONTROLLER WITH ELEVATOR INSTALLER IN FIELD.

1 3RD FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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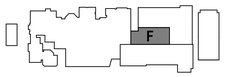

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

3RD FLOOR POWER PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-103F

Plot Stamp:
1/7/2026 7:44:57 PM

1ST FLOOR LIGHTING PLAN - AREA A NEW GYM FLOOR PLAN
E-201A
FOR BLUEBEAM LABELING/DOOR:

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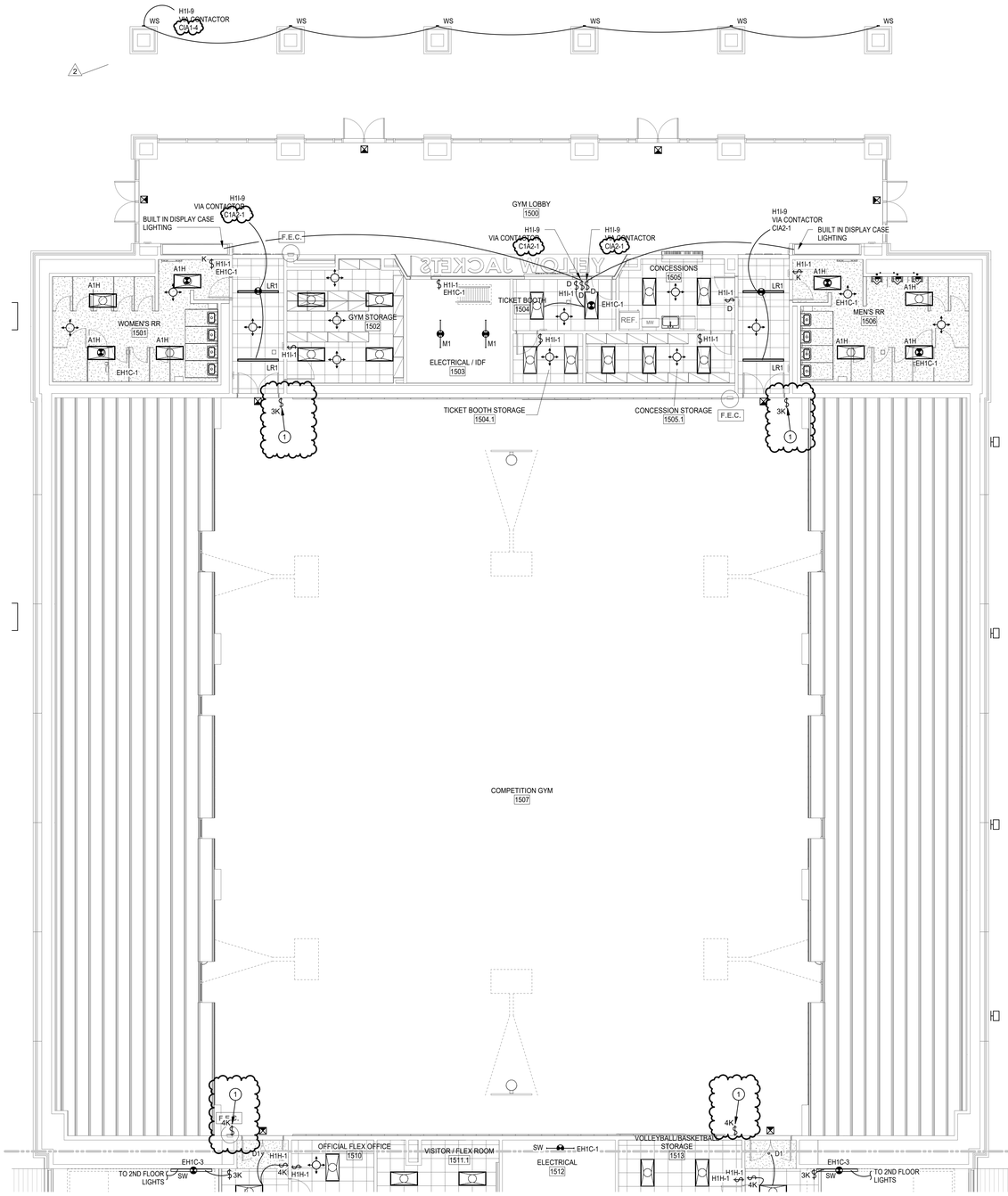

1 1ST FLOOR LIGHTING PLAN - AREA A NEW GYM FLOOR PLAN
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A2", ALL EXIT SIGNS ARE TYPE "X".
3. UNLESS OTHERWISE NOTED, TWO SWITCHES SIDE-BY-SIDE INDICATES MULTI-LEVEL SWITCHING. PROVIDE ONE-PIECE COVER PLATE FOR LIGHT SWITCHES. DESIGNATION NEXT TO SWITCHES INDICATES BRANCH CIRCUIT NUMBER. PROVIDE CONNECTION TO ALL FIXTURES IN THE ROOM.
4. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO POWER PACKS, WIRING, ETC. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. ALL EMERGENCY LIGHTING BRANCH CIRCUIT(S) SHALL BE 2#10, 1#10G, ½"C PROVIDE 20A UNSWITCHED BRANCH CIRCUIT (2#12, 1#12G, 3/4"C) FROM EMERGENCY PANEL TO ALL EXIT SIGNS IN THIS AREA. SEE PANEL SCHEDULE FOR CIRCUIT NUMBER(S).

   FIXTURES NOTED AS EMERGENCY SHALL BE PROVIDED POWER AS FOLLOWS:

   A. FOR FIXTURES IN ROOMS WITH BOTH NORMAL AND EMERGENCY FIXTURES A UL 924 EMERGENCY BYPASS DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES WITH EMERGENCY CIRCUIT INDICATED. THE NORMAL CIRCUIT SHALL BE CONNECTED TO AND MONITORED BY THE BYPASS DEVICE. UPON LOSS OF NORMAL POWER EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.

   B. FOR FIXTURES IN ROOMS WITH ONLY EMERGENCY FIXTURES A UL 1008 EMERGENCY TRANSFER DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES. BOTH THE EMERGENCY AND NORMAL CIRCUITS AS INDICATED SHALL BE CONNECTED TO TRANSFER DEVICE. UPON LOSS OF NORMAL POWER THE DEVICE SHALL TRANSFER TO THE EMERGENCY CIRCUIT AND EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.

6. REFER TO LANDSCAPE ARCHITECTURAL DRAWING SHEET FOR EXACT LOCATION,QUANTITY AND SCHEDULE OF LANDSCAPE LIGHTING FIXTURES L1 TO L5.

LIGHTING PLAN KEYED NOTES

(1) LOCAL SWITCH FOR LIGHTING IN THIS SPACE. REFER TO E-202A FOR ADDITIONAL INFORMATION.

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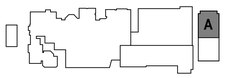


KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

1ST FLOOR LIGHTING PLAN - AREA A NEW GYM FLOOR PLAN

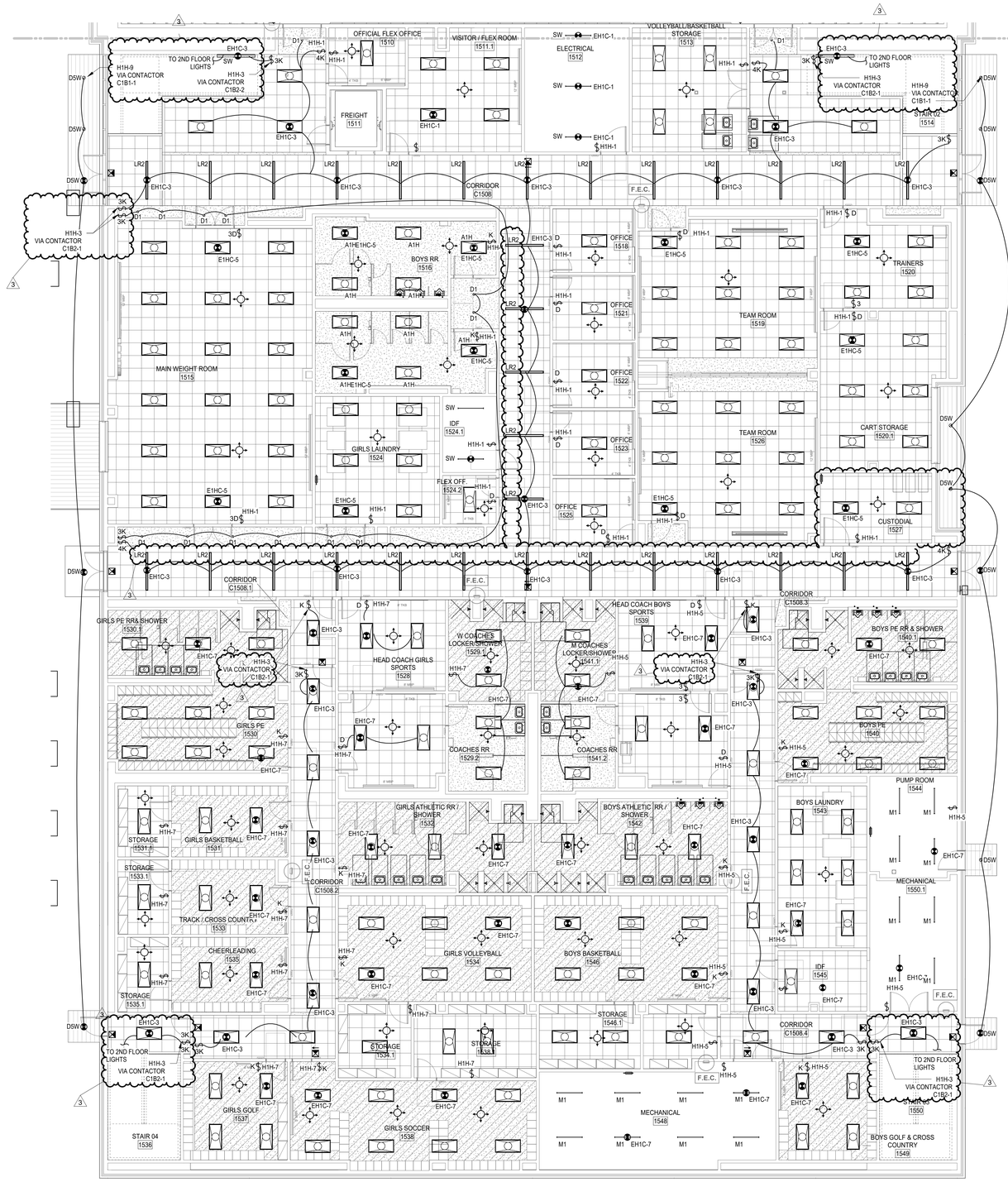
E-201A

Plot Stamp:
1/7/2026 7:45:01 PM

1ST FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN

E-201B

FOR BLUEBEAM LABELING/DOOR:



1 1ST FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN

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

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A2", ALL EXIT SIGNS ARE TYPE "X".
3. UNLESS OTHERWISE NOTED, TWO SWITCHES SIDE-BY-SIDE INDICATES MULTI-LEVEL SWITCHING. PROVIDE ONE-PIECE COVER PLATE FOR LIGHT SWITCHES. DESIGNATION NEXT TO SWITCHES INDICATES BRANCH CIRCUIT NUMBER. PROVIDE CONNECTION TO ALL FIXTURES IN THE ROOM.
4. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO POWER PACKS, WIRING, ETC. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. ALL EMERGENCY LIGHTING BRANCH CIRCUIT(S) SHALL BE 2#10, 1#10G, ½"C PROVIDE 20A UNSWITCHED BRANCH CIRCUIT (2#12, 1#12G, 3/4"C) FROM EMERGENCY PANEL TO ALL EXIT SIGNS IN THIS AREA, SEE PANEL SCHEDULE FOR CIRCUIT NUMBER(S).

   FIXTURES NOTED AS EMERGENCY SHALL BE PROVIDED POWER AS FOLLOWS:

   A. FOR FIXTURES IN ROOMS WITH BOTH NORMAL AND EMERGENCY FIXTURES A UL 924 EMERGENCY BYPASS DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES WITH EMERGENCY CIRCUIT INDICATED. THE NORMAL CIRCUIT SHALL BE CONNECTED TO AND MONITORED BY THE BYPASS DEVICE. UPON LOSS OF NORMAL POWER EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.

   B. FOR FIXTURES IN ROOMS WITH ONLY EMERGENCY FIXTURES A UL 1008 EMERGENCY TRANSFER DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES. BOTH THE EMERGENCY AND NORMAL CIRCUITS AS INDICATED SHALL BE CONNECTED TO TRANSFER DEVICE. UPON LOSS OF NORMAL POWER THE DEVICE SHALL TRANSFER TO THE EMERGENCY CIRCUIT AND EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.
6. REFER TO LANDSCAPE ARCHITECTURAL DRAWING SHEET FOR EXACT LOCATION,QUANTITY AND SCHEDULE OF LANDSCAPE LIGHTING FIXTURES L1 TO L5.

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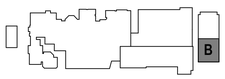


KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: OT

DRAWN BY: LT

1ST FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN

E-201B

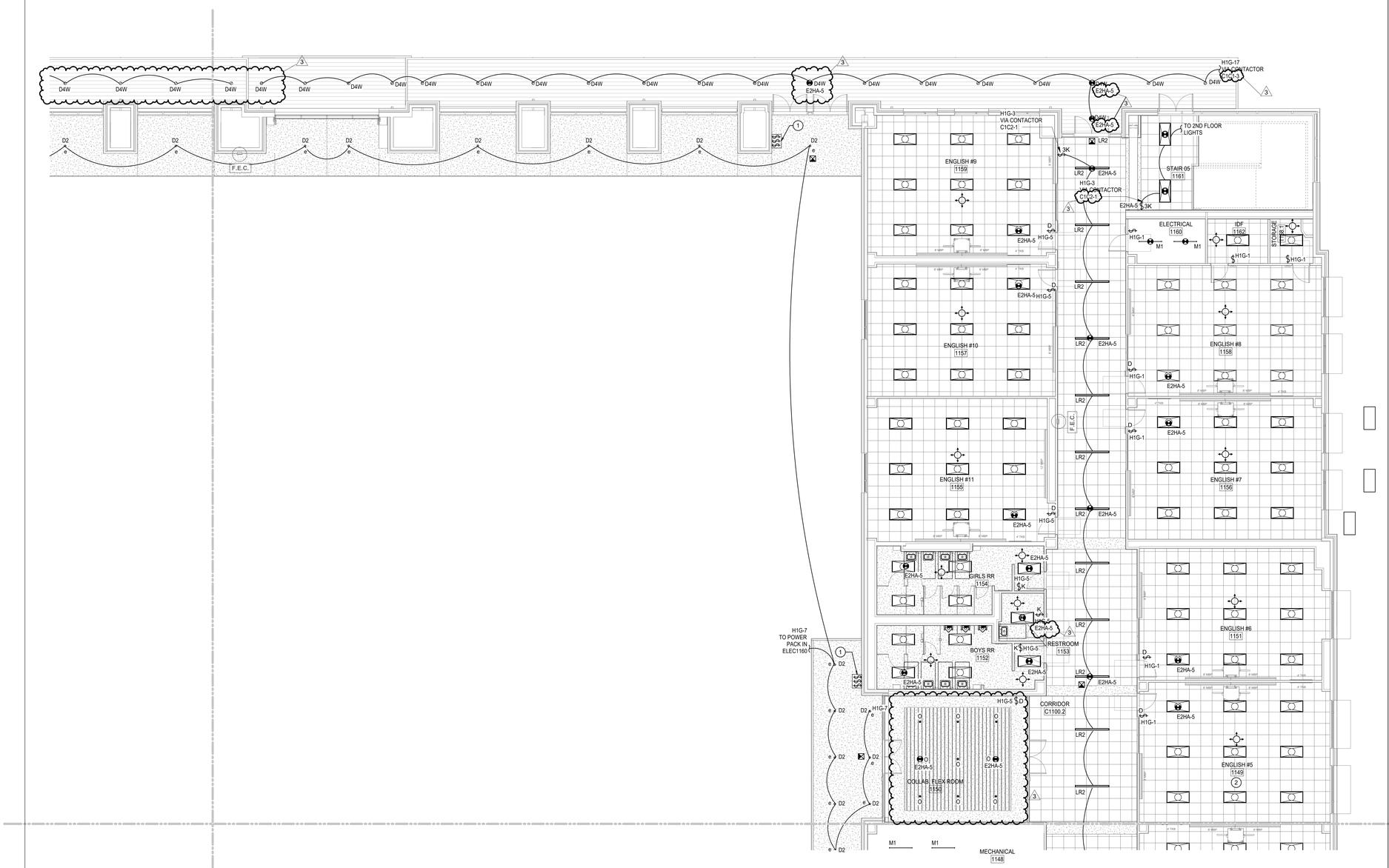
Plot Stamp:
1/7/2026 7:45:07 PM

1ST FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-201C

FOR BLUEBEAM LABELING/OCR:

0"
1"



LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A2", ALL EXIT SIGNS ARE TYPE "X".
3. UNLESS OTHERWISE NOTED, TWO SWITCHES SIDE-BY-SIDE INDICATES MULTI-LEVEL SWITCHING. PROVIDE ONE-PIECE COVER PLATE FOR LIGHT SWITCHES. DESIGNATION NEXT TO SWITCHES INDICATES BRANCH CIRCUIT NUMBER. PROVIDE CONNECTION TO ALL FIXTURES IN THE ROOM.
4. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO POWER PACKS, WIRING, ETC. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. ALL EMERGENCY LIGHTING BRANCH CIRCUIT(S) SHALL BE 2#10, 1#10G, ½"C PROVIDE 20A UNSWITCHED BRANCH CIRCUIT (2#12, 1#12G, 3/4"C) FROM EMERGENCY PANEL TO ALL EXIT SIGNS IN THIS AREA. SEE PANEL SCHEDULE FOR CIRCUIT NUMBER(S).

   FIXTURES NOTED AS EMERGENCY SHALL BE PROVIDED POWER AS FOLLOWS:

   A. FOR FIXTURES IN ROOMS WITH BOTH NORMAL AND EMERGENCY FIXTURES A UL 924 EMERGENCY BYPASS DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES WITH EMERGENCY CIRCUIT INDICATED. THE NORMAL CIRCUIT SHALL BE CONNECTED TO AND MONITORED BY THE BYPASS DEVICE. UPON LOSS OF NORMAL POWER EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.

   B. FOR FIXTURES IN ROOMS WITH ONLY EMERGENCY FIXTURES A UL 1008 EMERGENCY TRANSFER DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES. BOTH THE EMERGENCY AND NORMAL CIRCUITS AS INDICATED SHALL BE CONNECTED TO TRANSFER DEVICE. UPON LOSS OF NORMAL POWER THE DEVICE SHALL TRANSFER TO THE EMERGENCY CIRCUIT AND EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.
6. REFER TO LANDSCAPE ARCHITECTURAL DRAWING SHEET FOR EXACT LOCATION,QUANTITY AND SCHEDULE OF LANDSCAPE LIGHTING FIXTURES L1 TO L5.

1 **1ST FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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Galena Park, TX 77547

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Galena Park ISD

C

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

1ST FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-201C

0"
1"

1ST FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-201D

FOR BLUEBEAM LABELING/DOOR:

1 1ST FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

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

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2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A2", ALL EXIT SIGNS ARE TYPE "X".
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KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/01/08

CHECKED BY: OT

DRAWN BY: LT

1ST FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

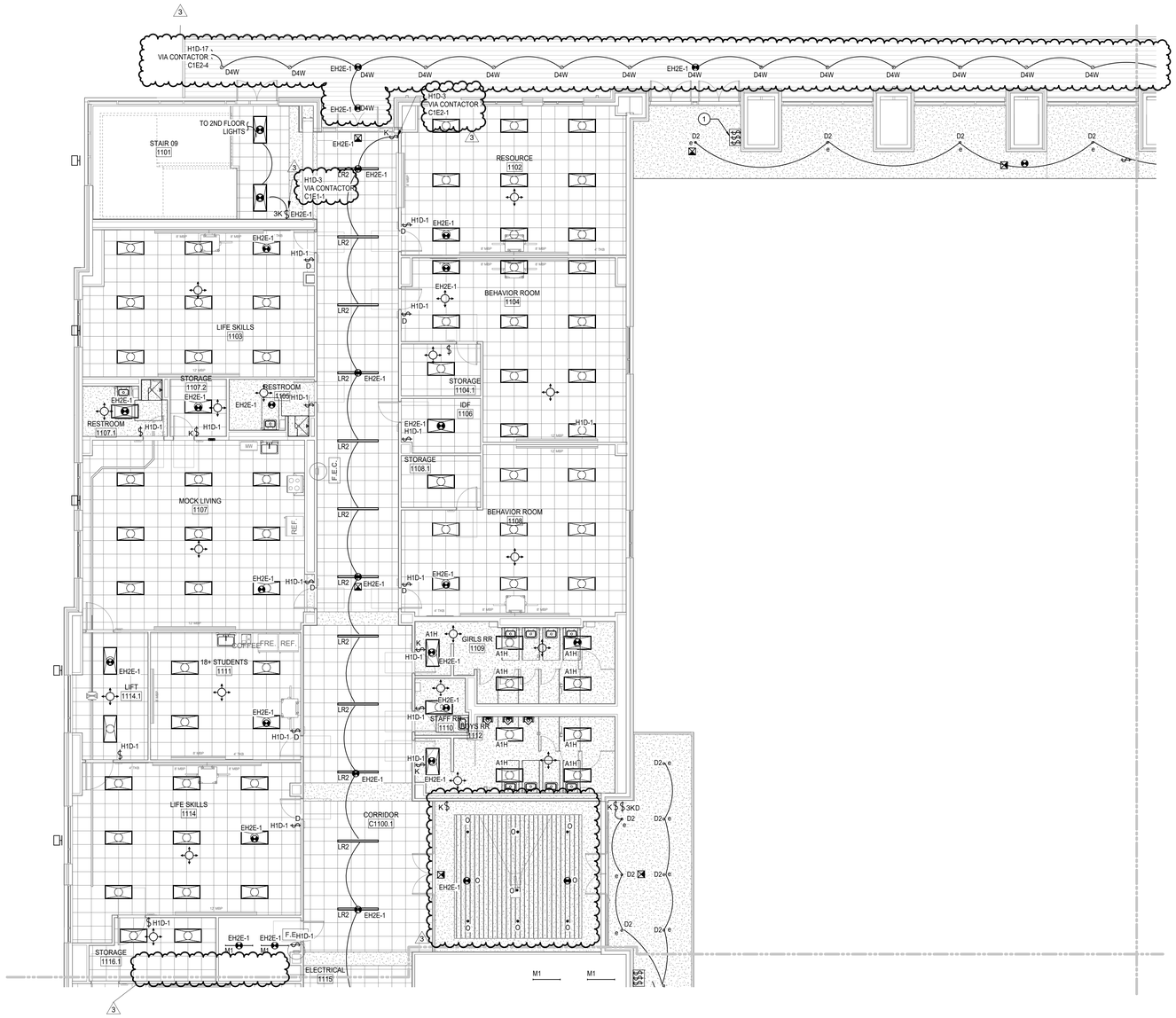
E-201D

Plot Stamp:
1/7/2026 7:45:11 PM

0"
1"

1ST FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN - E-201E

FOR BLUEBEAM LABELING/DOOR:



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1 **1ST FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
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LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

1ST FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-201E

Plot Stamp:
1/7/2026 7:45:14 PM

1ST FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-201F

FOR BLUEBEAM LABELING/DOOR:

0"

1"

1 1ST FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

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

LIGHTING PLAN GENERAL NOTES

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KEY PLAN

NORTH: PLAN ≈ TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: OT

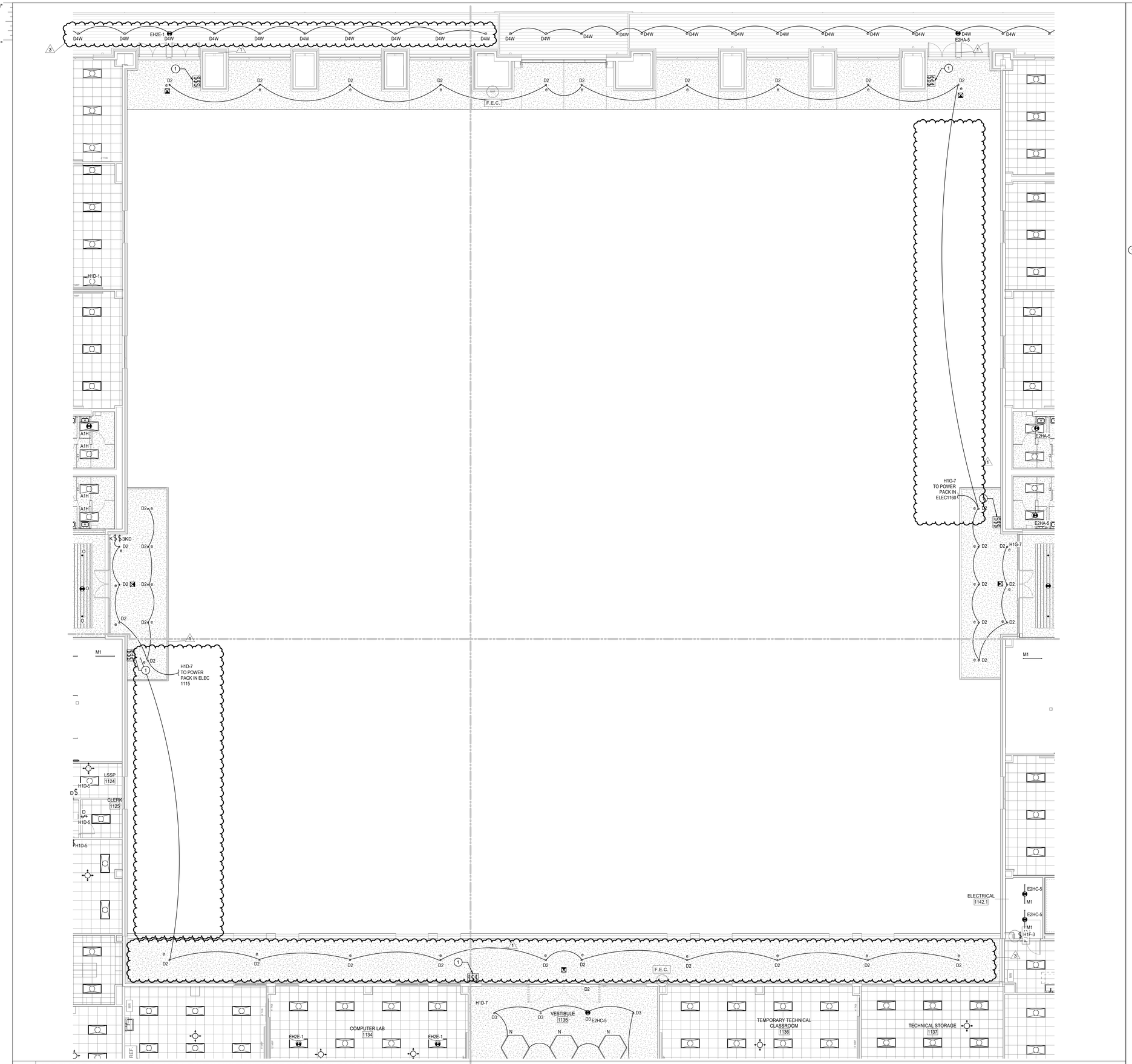
DRAWN BY: LT

1ST FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-201F

Plot Stamp:
1/7/2026 7:45:16 PM

1ST FLOOR LIGHTING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-201G
FOR BLUEBEAM LABELING/OCR:



1 1ST FLOOR LIGHTING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

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6. REFER TO LANDSCAPE ARCHITECTURAL DRAWING SHEET FOR EXACT LOCATION,QUANTITY AND SCHEDULE OF LANDSCAPE LIGHTING FIXTURES L1 TO L5.

LIGHTING PLAN KEYED NOTES

1 IN LOCKED CABINET PROVIDE 3 LOW VOLTAGE SWITCHES FOR MULTIPURPOSE ROOM
1) ALL ON ALL OFF FOR LIGHT GROUPS a, b, c, d, AND e
2) FOUR GROUP CONTROLLER WITH ON, OFF, RAISE LOWER FOR a,b, c, AND d
3) ON, OFF, RAISE, LOWER FOR GROUP e

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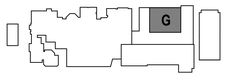


KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

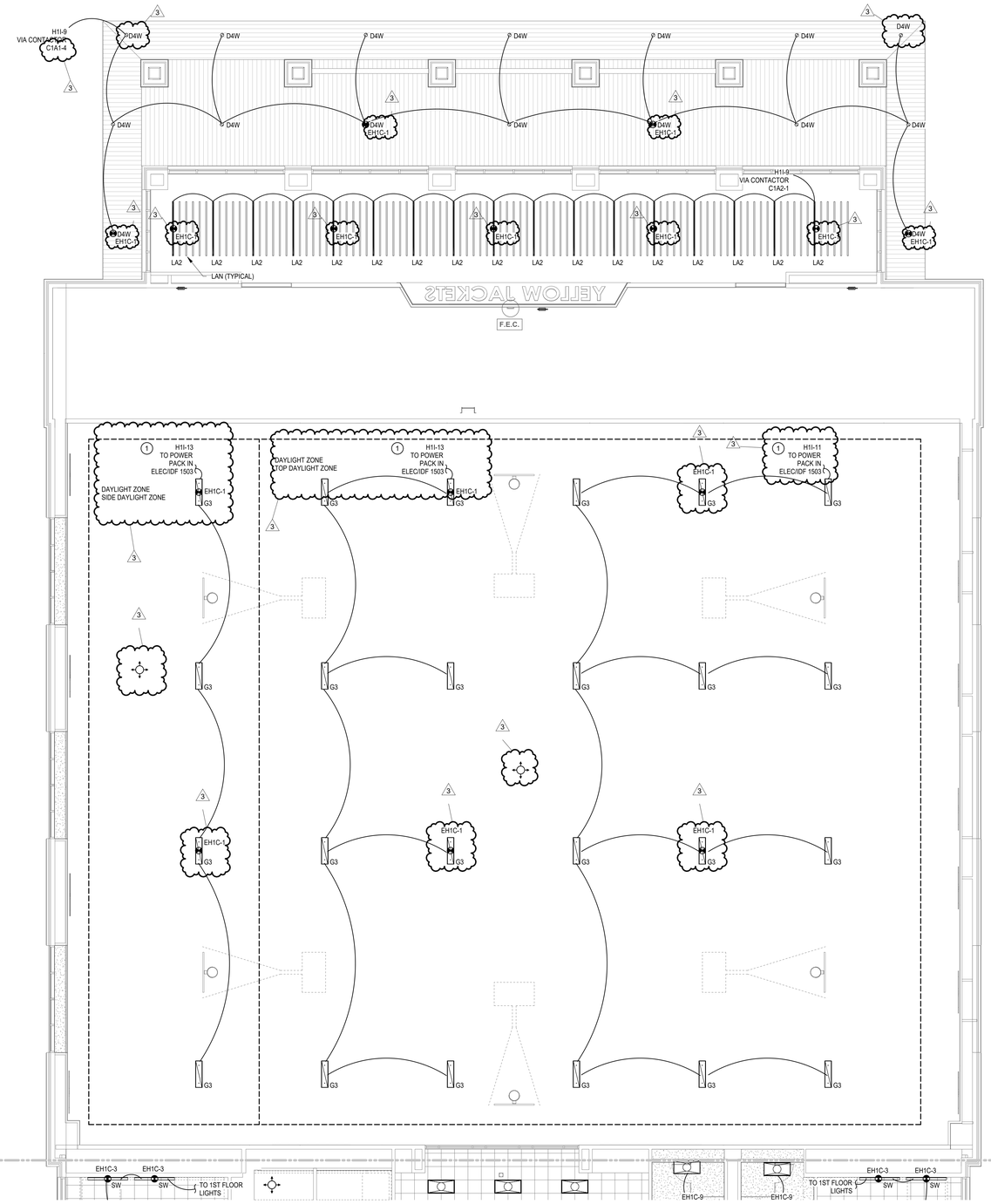
1ST FLOOR LIGHTING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-201G

Plot Stamp:
1/7/2026 7:45:18 PM

0"
1"

2ND FLOOR LIGHTING PLAN - AREA A NEW GYM FLOOR PLAN
E-202A
FOR BLUEBEAM LABELING/OCR:



1 **2ND FLOOR LIGHTING PLAN - AREA A NEW GYM FLOOR PLAN**
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A2", ALL EXIT SIGNS ARE TYPE "X".
3. UNLESS OTHERWISE NOTED, TWO SWITCHES SIDE-BY-SIDE INDICATES MULTI-LEVEL SWITCHING. PROVIDE ONE-PIECE COVER PLATE FOR LIGHT SWITCHES. DESIGNATION NEXT TO SWITCHES INDICATES BRANCH CIRCUIT NUMBER. PROVIDE CONNECTION TO ALL FIXTURES IN THE ROOM.
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6. REFER TO LANDSCAPE ARCHITECTURAL DRAWING SHEET FOR EXACT LOCATION,QUANTITY AND SCHEDULE OF LANDSCAPE LIGHTING FIXTURES L1 TO L5.

LIGHTING PLAN KEYED NOTES

1. POWER PACKS FOR LIGHTING CIRCUITS IN THIS ROOM SHALL BE CONTROLLED AS A SINGLE GROUP

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December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/01/08

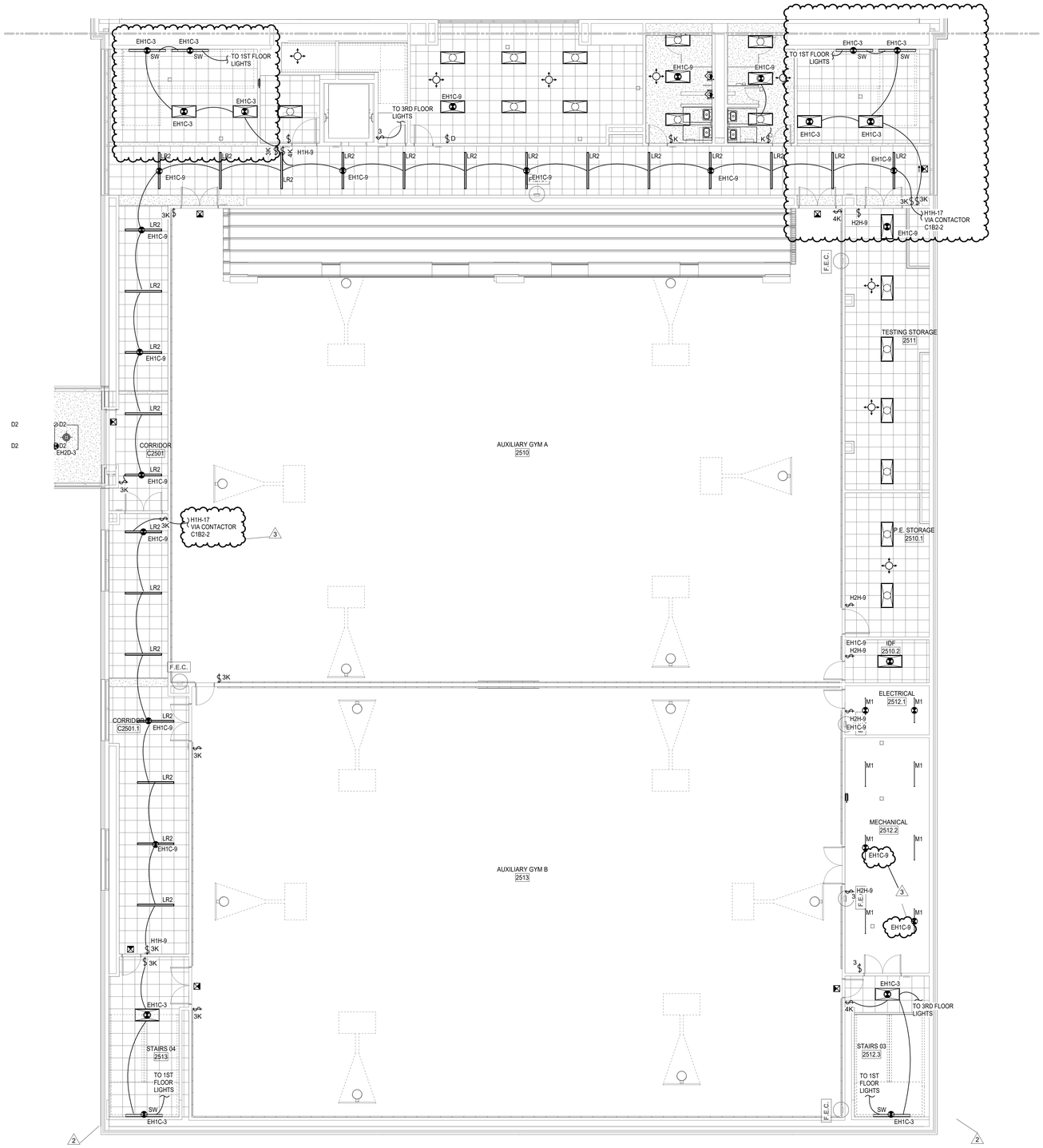
CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR LIGHTING PLAN - AREA A NEW GYM FLOOR PLAN

E-202A

Plot Stamp:
1/7/2026 7:45:20 PM

2ND FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN
E-202B
FOR BLUEBEAM LABELING/OCR:



1 2ND FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN
SCALE: 1/8" = 1'-0"

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   B. FOR FIXTURES IN ROOMS WITH ONLY EMERGENCY FIXTURES A UL 1008 EMERGENCY TRANSFER DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES. BOTH THE EMERGENCY AND NORMAL CIRCUITS AS INDICATED SHALL BE CONNECTED TO TRANSFER DEVICE. UPON LOSS OF NORMAL POWER THE DEVICE SHALL TRANSFER TO THE EMERGENCY CIRCUIT AND EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.
6. REFER TO LANDSCAPE ARCHITECTURAL DRAWING SHEET FOR EXACT LOCATION,QUANTITY AND SCHEDULE OF LANDSCAPE LIGHTING FIXTURES L1 TO L5.

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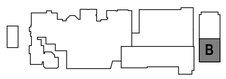
713-965-0608

LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE December 5, 2025	PROJECT NUMBER 240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN

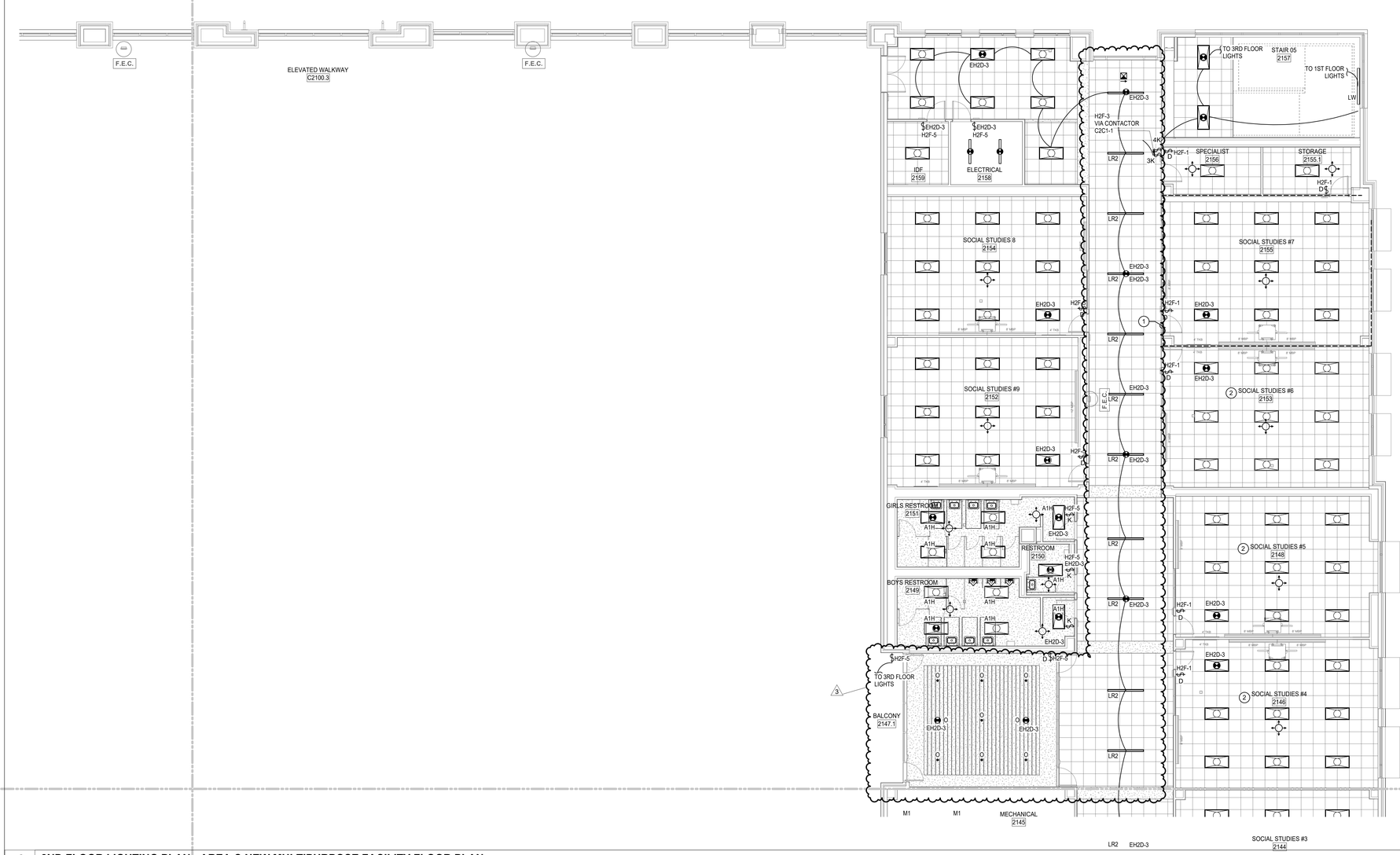
E-202B

Plot Stamp:
1/7/2026 7:45:22 PM

2ND FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN E-202C

FOR BLUEBEAM LABELING/DOOR:

0"
1"



1 **2ND FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A2", ALL EXIT SIGNS ARE TYPE "X".
3. UNLESS OTHERWISE NOTED, TWO SWITCHES SIDE-BY-SIDE INDICATES MULTI-LEVEL SWITCHING. PROVIDE ONE-PIECE COVER PLATE FOR LIGHT SWITCHES. DESIGNATION NEXT TO SWITCHES INDICATES BRANCH CIRCUIT NUMBER. PROVIDE CONNECTION TO ALL FIXTURES IN THE ROOM.
4. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO POWER PACKS, WIRING, ETC. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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   B. FOR FIXTURES IN ROOMS WITH ONLY EMERGENCY FIXTURES A UL 1008 EMERGENCY TRANSFER DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES. BOTH THE EMERGENCY AND NORMAL CIRCUITS AS INDICATED SHALL BE CONNECTED TO TRANSFER DEVICE. UPON LOSS OF NORMAL POWER THE DEVICE SHALL TRANSFER TO THE EMERGENCY CIRCUIT AND EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.
6. REFER TO LANDSCAPE ARCHITECTURAL DRAWING SHEET FOR EXACT LOCATION,QUANTITY AND SCHEDULE OF LANDSCAPE LIGHTING FIXTURES L1 TO L5.

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

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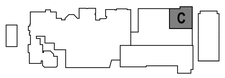
Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

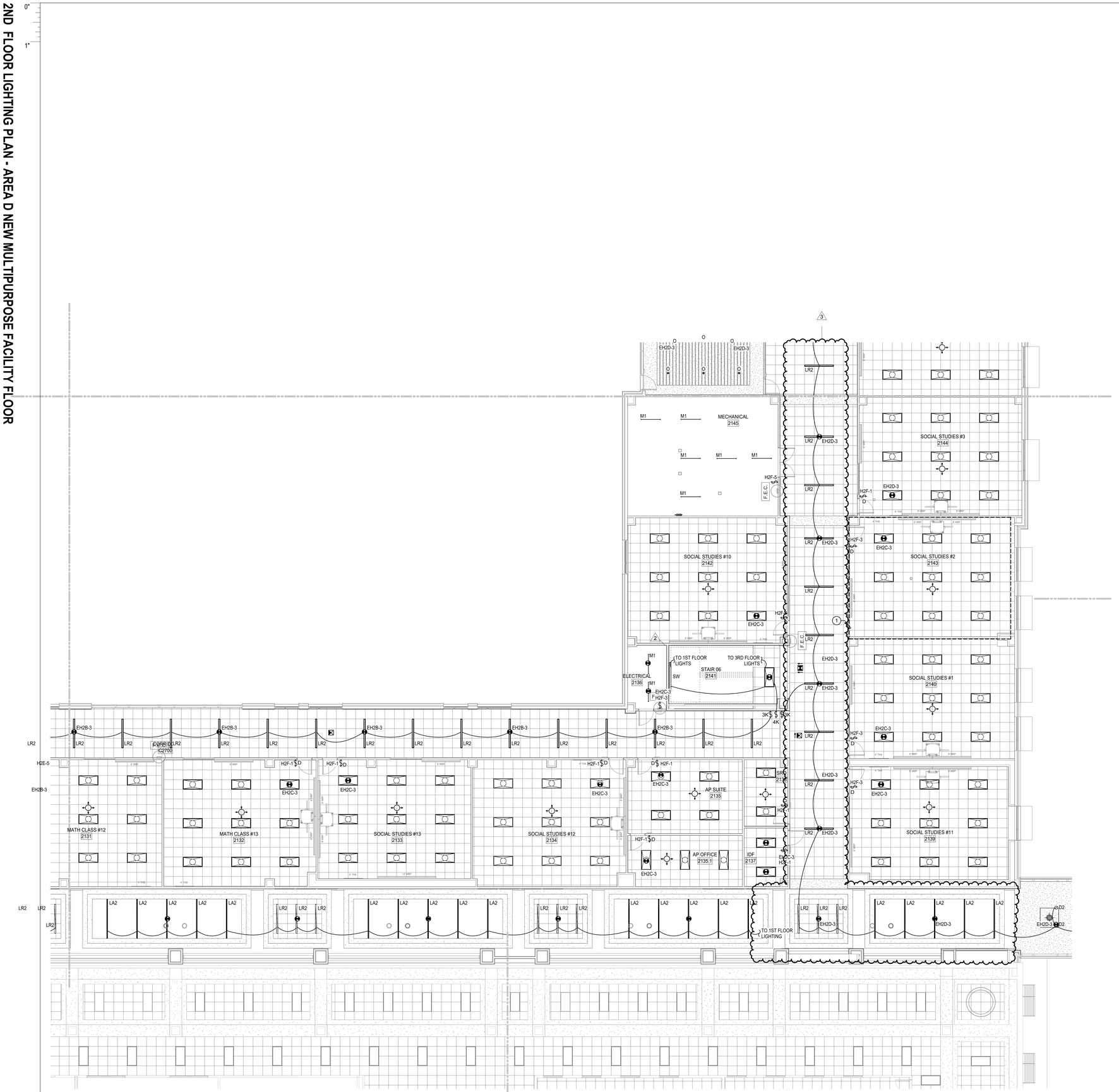
E-202C

Plot Stamp:
1/7/2026 7:45:24 PM

0"
1"

2ND FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-202D

FOR BLUEBEAM LABELING/DOOR:



1 2ND FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

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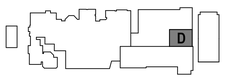

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: OT

DRAWN BY: LT

2ND FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-202D

Plot Stamp:
1/7/2026 7:45:27 PM

0"
1"

2ND FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-202E
FOR BLUEBEAM LABELING/DOOR:

1 **2ND FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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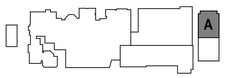
Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
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PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-202E

Plot Stamp:
1/7/2026 7:45:28 PM

2ND FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-202F
FOR BLUEBEAM LABELING/OCR:

1 2ND FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

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Galena Park ISD
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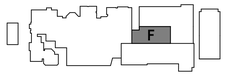


KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

2ND FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

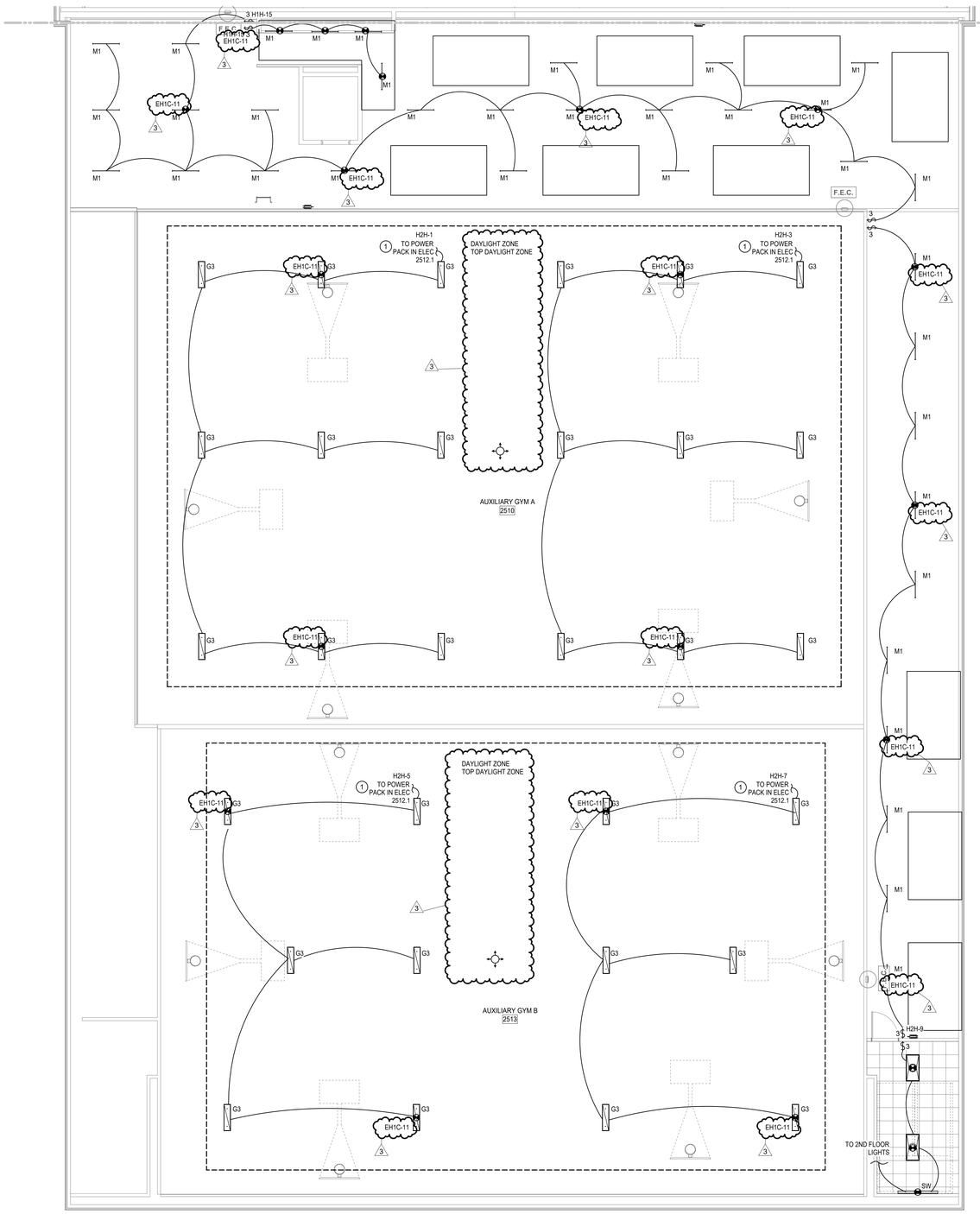
E-202F

Plot Stamp:
1/7/2026 7:45:31 PM

3RD FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN
E-203B

FOR BLUEBEAM LABELING/DOOR:

0"
1"



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6. REFER TO LANDSCAPE ARCHITECTURAL DRAWING SHEET FOR EXACT LOCATION,QUANTITY AND SCHEDULE OF LANDSCAPE LIGHTING FIXTURES L1 TO L5.

LIGHTING PLAN KEYED NOTES

1 POWER PACKS FOR LIGHTING CIRCUITS IN THIS ROOM SHALL BE CONTROLLED AS A SINGLE GROUP

1

1 **3RD FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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HOUSTON, TX
713-865-0008

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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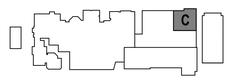

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

3RD FLOOR LIGHTING PLAN - AREA B NEW GYM FLOOR PLAN

E-203B

Plot Stamp:
1/7/2026 7:45:33 PM

0"
1"

3RD FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-203C

FOR BLUEBEAM LABELING/DOOR:

1 **3RD FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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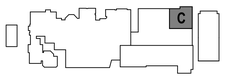
HOUSTON, TX
713-865-0008
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
SURVEYOR

December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: OT

DRAWN BY: LT

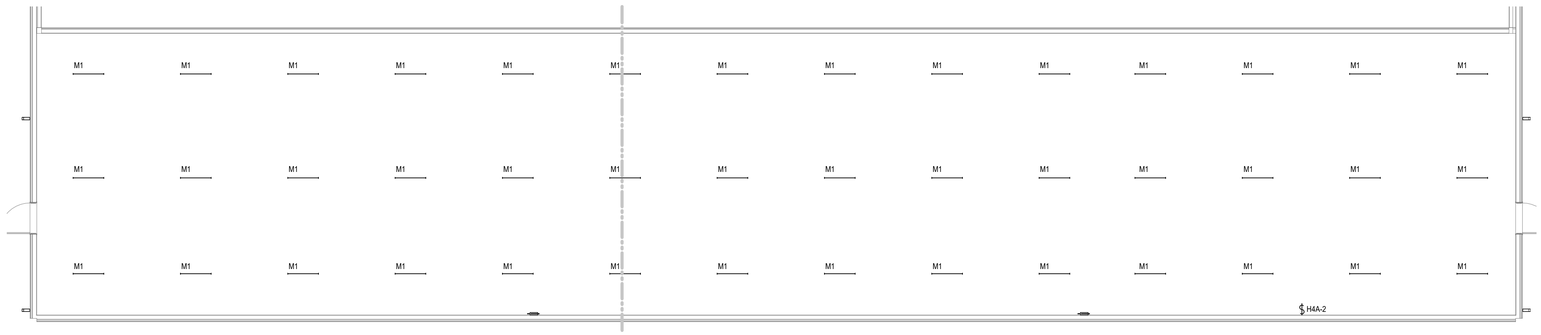
3RD FLOOR LIGHTING PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-203C

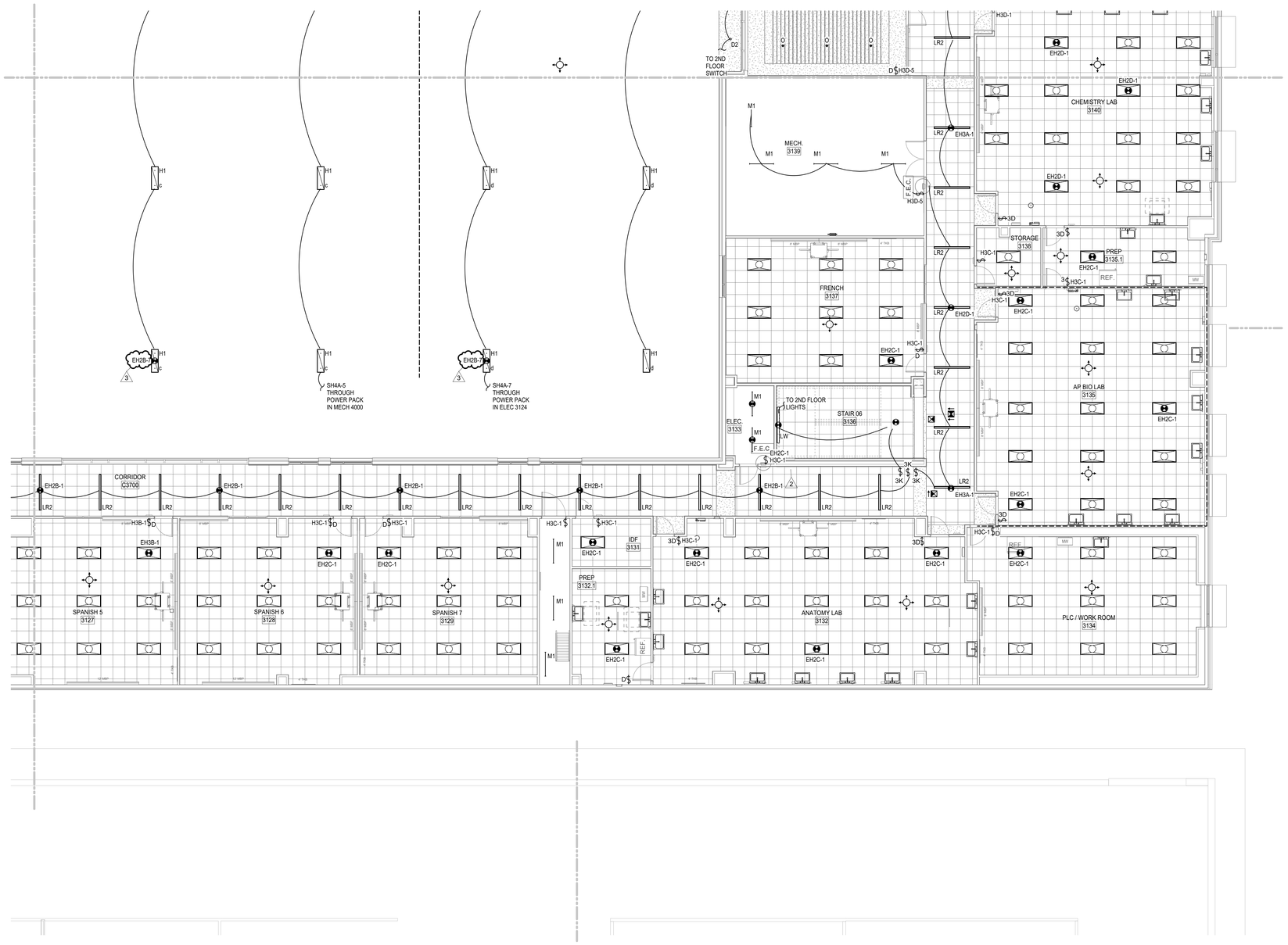
Plot Stamp:
1/7/2026 7:45:35 PM

3RD FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-203D
FOR BLUEBEAM LABELING/DOOR:

0"
1"



2 LIGHTING MECH ROOM PLAN
SCALE: 1/8" = 1'-0"



1 3RD FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
1/7/2026 7:45:37 PM

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A2", ALL EXIT SIGNS ARE TYPE "X".
3. UNLESS OTHERWISE NOTED, TWO SWITCHES SIDE-BY-SIDE INDICATES MULTI-LEVEL SWITCHING. PROVIDE ONE-PIECE COVER PLATE FOR LIGHT SWITCHES. DESIGNATION NEXT TO SWITCHES INDICATES BRANCH CIRCUIT NUMBER. PROVIDE CONNECTION TO ALL FIXTURES IN THE ROOM.
4. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO POWER PACKS, WIRING, ETC. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. ALL EMERGENCY LIGHTING BRANCH CIRCUIT(S) SHALL BE 2#10, 1#10G, ½"C PROVIDE 20A UNSWITCHED BRANCH CIRCUIT (2#12, 1#12G, 3/4"C) FROM EMERGENCY PANEL TO ALL EXIT SIGNS IN THIS AREA, SEE PANEL SCHEDULE FOR CIRCUIT NUMBER(S).

   FIXTURES NOTED AS EMERGENCY SHALL BE PROVIDED POWER AS FOLLOWS:

   A. FOR FIXTURES IN ROOMS WITH BOTH NORMAL AND EMERGENCY FIXTURES A UL 924 EMERGENCY BYPASS DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES WITH EMERGENCY CIRCUIT INDICATED. THE NORMAL CIRCUIT SHALL BE CONNECTED TO AND MONITORED BY THE BYPASS DEVICE. UPON LOSS OF NORMAL POWER EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.

   B. FOR FIXTURES IN ROOMS WITH ONLY EMERGENCY FIXTURES A UL 1008 EMERGENCY TRANSFER DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES. BOTH THE EMERGENCY AND NORMAL CIRCUITS AS INDICATED SHALL BE CONNECTED TO TRANSFER DEVICE. UPON LOSS OF NORMAL POWER THE DEVICE SHALL TRANSFER TO THE EMERGENCY CIRCUIT AND EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.
6. REFER TO LANDSCAPE ARCHITECTURAL DRAWING SHEET FOR EXACT LOCATION,QUANTITY AND SCHEDULE OF LANDSCAPE LIGHTING FIXTURES L1 TO L5.

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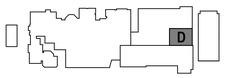


KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

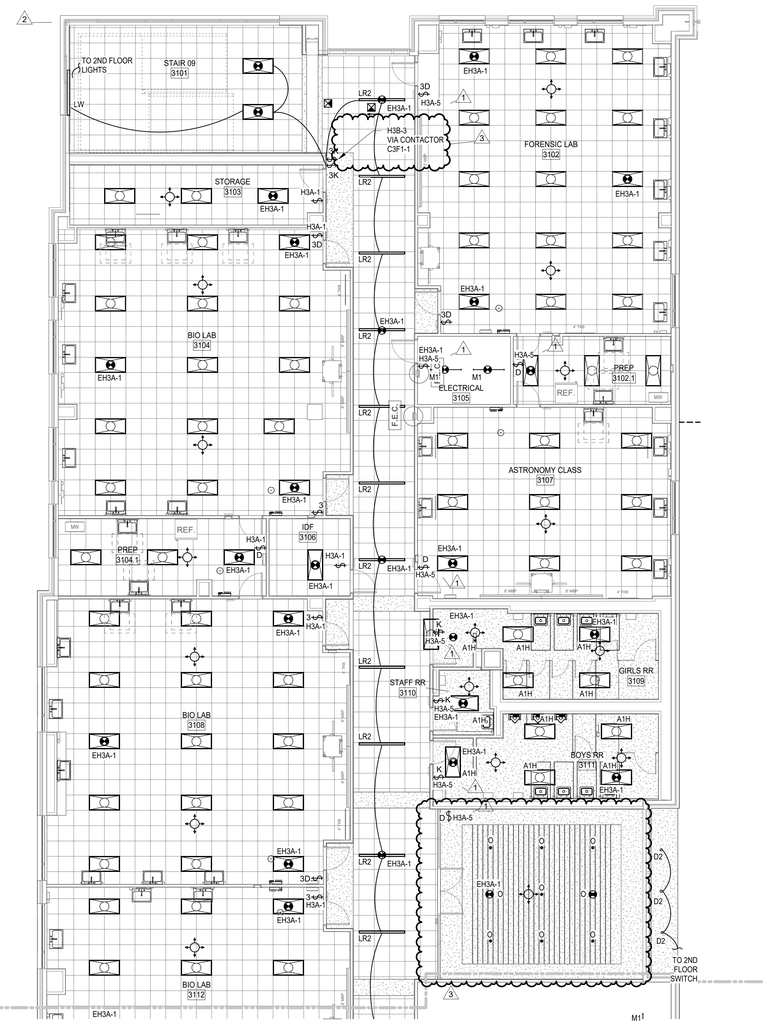
3RD FLOOR LIGHTING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-203D

3RD FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
E-203E

FOR BLUEBEAM LABELING/DOOR:

0"
1"



1 3RD FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
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4. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO POWER PACKS, WIRING, ETC. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. ALL EMERGENCY LIGHTING BRANCH CIRCUIT(S) SHALL BE 2#10, 1#10G, ½"C
   PROVIDE 20A UNSWITCHED BRANCH CIRCUIT (2#12, 1#12G, 3/4"C) FROM EMERGENCY PANEL TO ALL EXIT SIGNS IN THIS AREA, SEE PANEL SCHEDULE FOR CIRCUIT NUMBER(S).

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   B. FOR FIXTURES IN ROOMS WITH ONLY EMERGENCY FIXTURES A UL 1008 EMERGENCY TRANSFER DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES. BOTH THE EMERGENCY AND NORMAL CIRCUITS AS INDICATED SHALL BE CONNECTED TO TRANSFER DEVICE. UPON LOSS OF NORMAL POWER THE DEVICE SHALL TRANSFER TO THE EMERGENCY CIRCUIT AND EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.
6. REFER TO LANDSCAPE ARCHITECTURAL DRAWING SHEET FOR EXACT LOCATION,QUANTITY AND SCHEDULE OF LANDSCAPE LIGHTING FIXTURES L1 TO L5.

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
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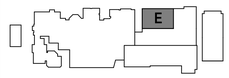
ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

3RD FLOOR LIGHTING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

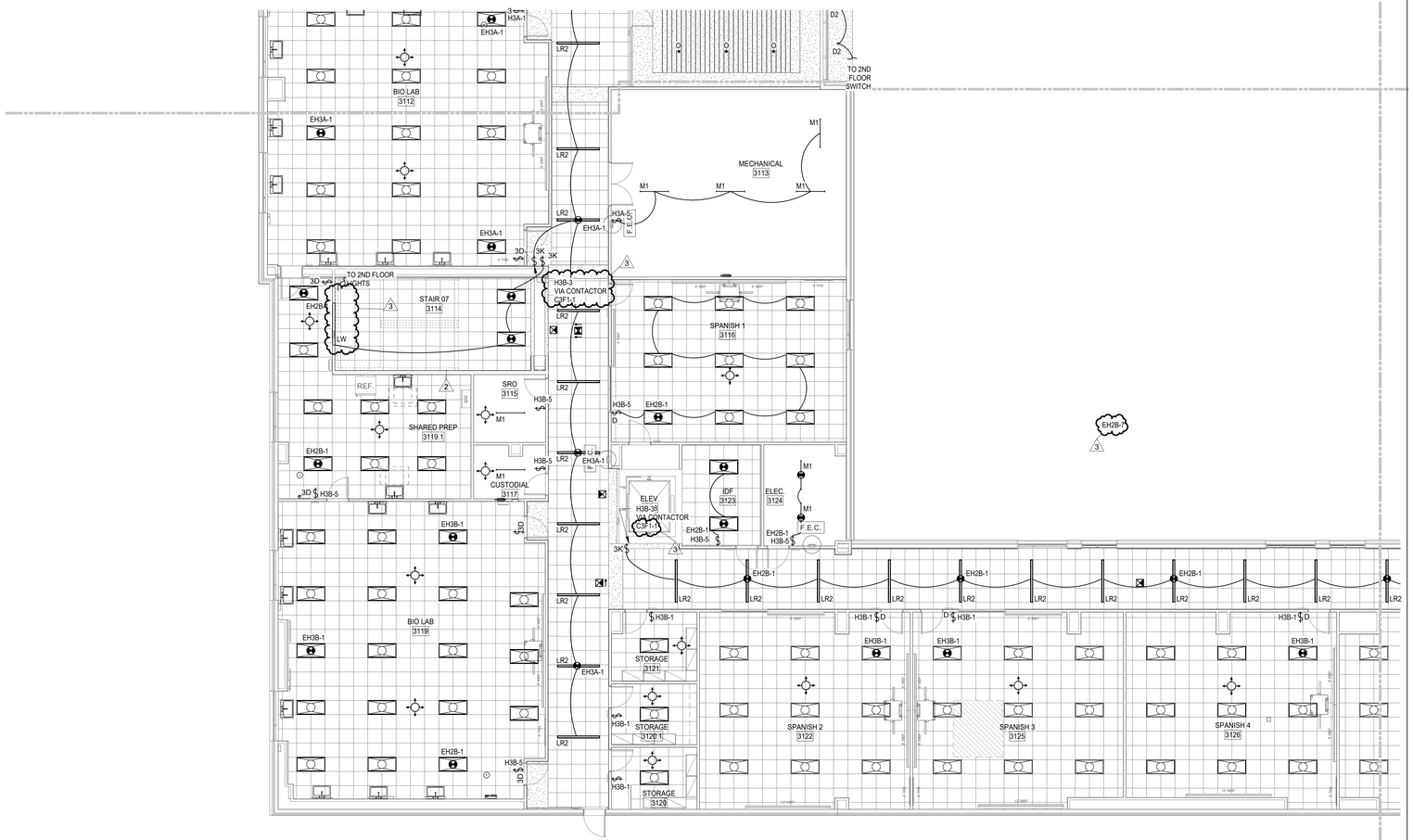
E-203E

Plot Stamp:
1/7/2026 7:45:40 PM

0"
1"

3RD FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN E-203F

FOR BLUEBEAM LABELING/DOOR:



LIGHTING PLAN GENERAL NOTES

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   B. FOR FIXTURES IN ROOMS WITH ONLY EMERGENCY FIXTURES A UL 1008 EMERGENCY TRANSFER DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES. BOTH THE EMERGENCY AND NORMAL CIRCUITS AS INDICATED SHALL BE CONNECTED TO TRANSFER DEVICE. UPON LOSS OF NORMAL POWER THE DEVICE SHALL TRANSFER TO THE EMERGENCY CIRCUIT AND EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.
6. REFER TO LANDSCAPE ARCHITECTURAL DRAWING SHEET FOR EXACT LOCATION,QUANTITY AND SCHEDULE OF LANDSCAPE LIGHTING FIXTURES L1 TO L5.

1 **3RD FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
1/7/2026 7:45:42 PM

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

F

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT: Galena Park ISD
DATE: December 5, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

3RD FLOOR LIGHTING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

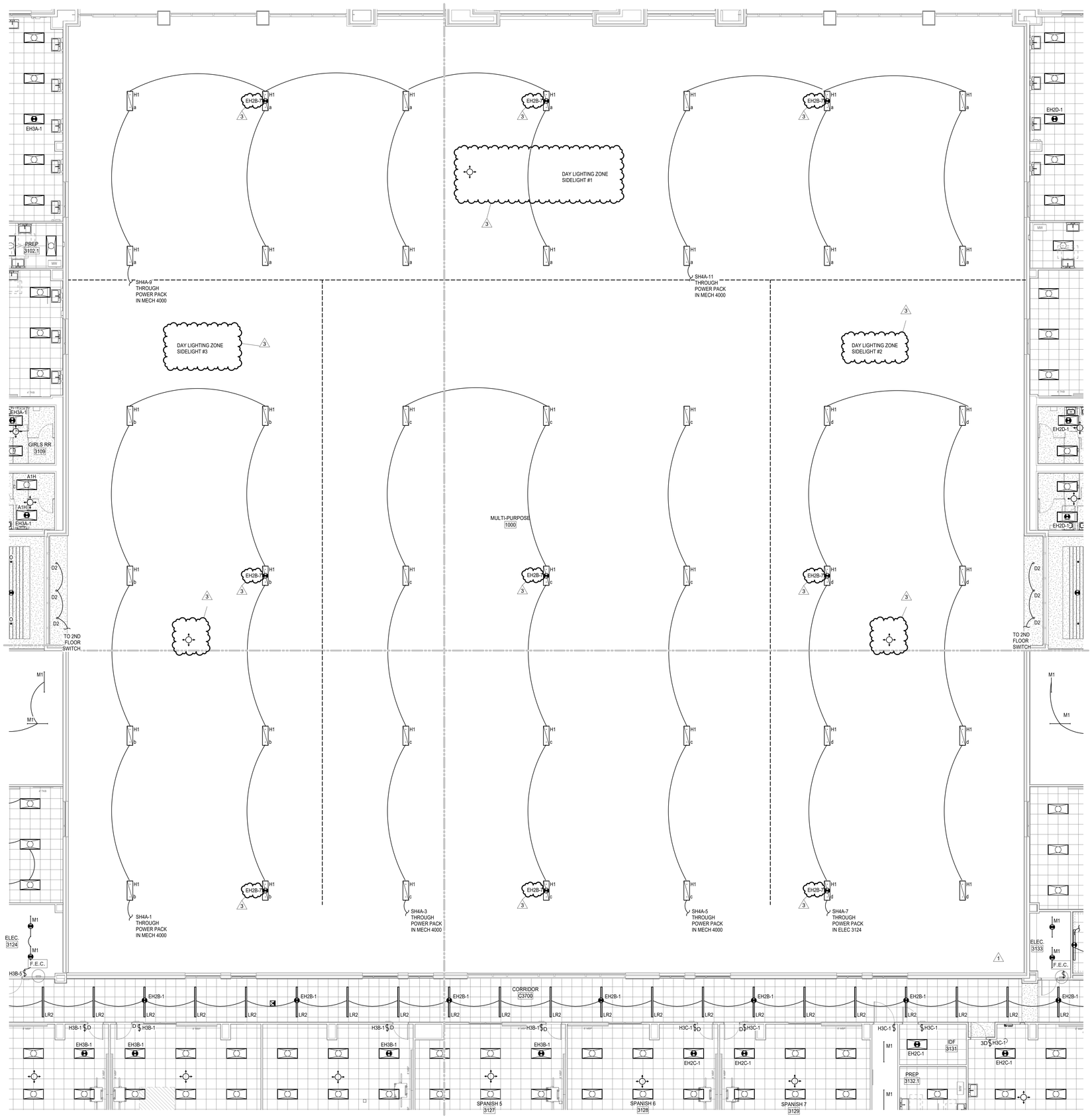
E-203F

3RD FLOOR LIGHTING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-203G

FOR BLUEBEAM LABELING/DOOR:

0"
1"



1 3RD FLOOR LIGHTING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

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

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A2", ALL EXIT SIGNS ARE TYPE "X".
3. UNLESS OTHERWISE NOTED, TWO SWITCHES SIDE-BY-SIDE INDICATES MULTI-LEVEL SWITCHING. PROVIDE ONE-PIECE COVER PLATE FOR LIGHT SWITCHES. DESIGNATION NEXT TO SWITCHES INDICATES BRANCH CIRCUIT NUMBER. PROVIDE CONNECTION TO ALL FIXTURES IN THE ROOM.
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6. REFER TO LANDSCAPE ARCHITECTURAL DRAWING SHEET FOR EXACT LOCATION,QUANTITY AND SCHEDULE OF LANDSCAPE LIGHTING FIXTURES L1 TO L5.

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713-865-0008

LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

G

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
3	ADD 05	2026/01/08

CHECKED BY: OT

DRAWN BY: LT

3RD FLOOR LIGHTING PLAN - AREA G NEW MULTIPURPOSE FACILITY FLOOR PLAN

E-203G

Plot Stamp:
1/7/2026 7:45:44 PM

0"
1"

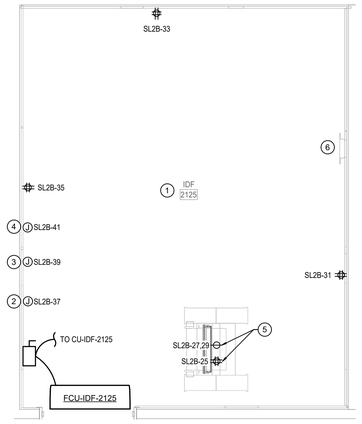
ENLARGED ELECTRICAL PLAN
E-402
FOR BLUEBEAM LABELING/DCR:

POWER PLAN KEYED NOTES

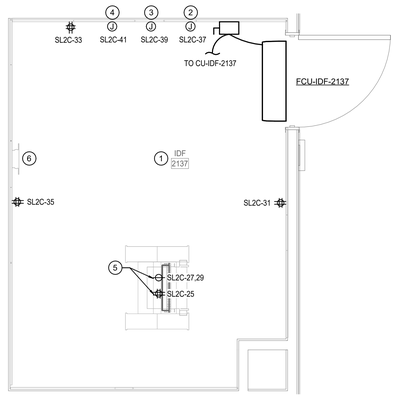
1. COORDINATE EXACT LOCATION, MOUNTING AND ALL POWER REQUIREMENTS WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
2. JUNCTION BOX FOR POWER TO FIRE ALARM PANEL. REFER TO TECHNOLOGY FOR EXACT MOUNTING, LOCATION AND ADDITIONAL INFORMATION.
3. JUNCTION BOX FOR POWER TO SECURITY BOOSTER PANEL. REFER TO TECHNOLOGY FOR EXACT MOUNTING, LOCATION AND ADDITIONAL INFORMATION.
4. POWER TO ACCESS CONTROL POWER SUPPLY COORDINATE MOUNTING HEIGHT AND LOCATION WITH SPECIAL SYSTEM CONTRACTOR.
5. PROVIDE 30A TWISTLOCK RECEPTACLE (NEMA L5-30R) FOR POWER TO IT RACK. COORDINATE EXACT LOCATION AND POWER REQUIREMENT WITH TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN.
6. ELECTRICAL GROUND BAR BY DIVISION 27. PROVIDE CONNECTION TO BUILDING GROUND SYSTEM

POWER PLAN GENERAL NOTES:

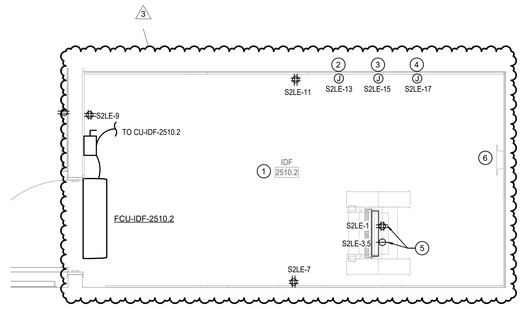
1. DATA/COMMUNICATION OUTLETS ARE SHOWN ON THIS DRAWING FOR COORDINATION PURPOSES ONLY. PROVIDE AND INSTALL ALL CONDUITS AND BACK BOXES REQUIRED BY LOW VOLTAGE SYSTEMS. COORDINATE WITH 'TS' DRAWINGS, DETAILS, ETC. AND ARCHITECTURAL DRAWINGS FOR EXACT QUANTITIES, LOCATIONS, AND REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
3. UNLESS OTHERWISE NOTED, ALL DISCONNECT SHOWN SHALL BE 30/NF/3 DISCONNECT.
4. CONTRACTOR SHALL NOTE THAT ALL 15 AMP AND 20 AMP NON-LOCKING TYPE RECEPTACLES THAT ARE NOT LOCATED WITHIN DEDICATED APPLIANCE SPACE AND ARE BELOW 66" ABOVE FINISHED FLOOR SHALL BE TAMPER RESISTANT TYPE RECEPTACLES. PER NEC 406.12.



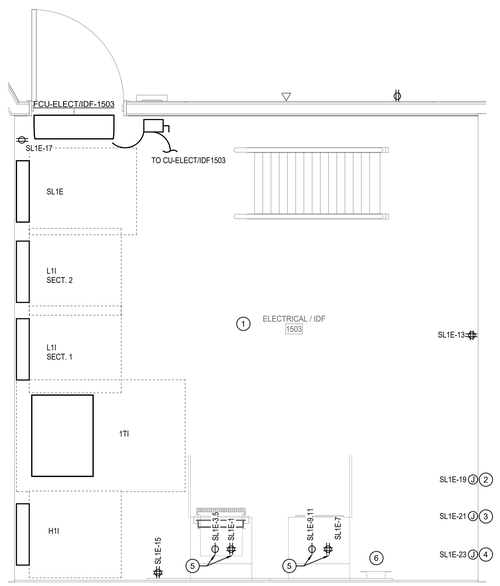
4 2ND FLOOR TECHNOLOGY PLAN - IDF 2125 ENLARGED
SCALE: 1/2" = 1'-0"



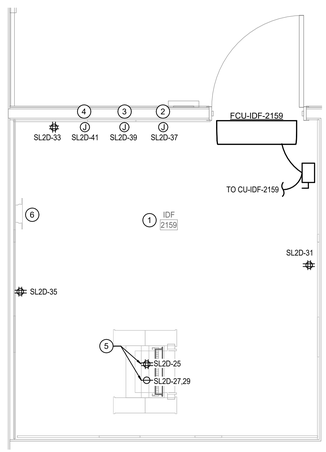
5 2ND FLOOR TECHNOLOGY PLAN - IDF 2137 ENLARGED
SCALE: 1/2" = 1'-0"



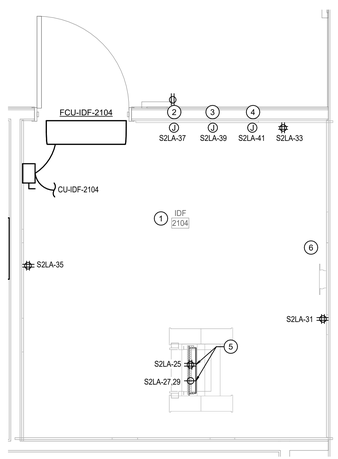
6 2ND FLOOR TECHNOLOGY PLAN - IDF 2510.2 ENLARGED
SCALE: 1/2" = 1'-0"



1 1ST FLOOR TECHNOLOGY PLAN - IDF ELEC/IDF 1503 ENLARGED
SCALE: 1/2" = 1'-0"



2 2ND FLOOR TECHNOLOGY PLAN - IDF 2159 ENLARGED
SCALE: 1/2" = 1'-0"



3 2ND FLOOR TECHNOLOGY PLAN - IDF 2103 ENLARGED
SCALE: 1/2" = 1'-0"

Plot Stamp:
1/7/2026 7:45:47 PM

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TX FIRM: BR 1608
HOUSTON, TX
713-365-0008

LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
BUILDING REAL FUTURES

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

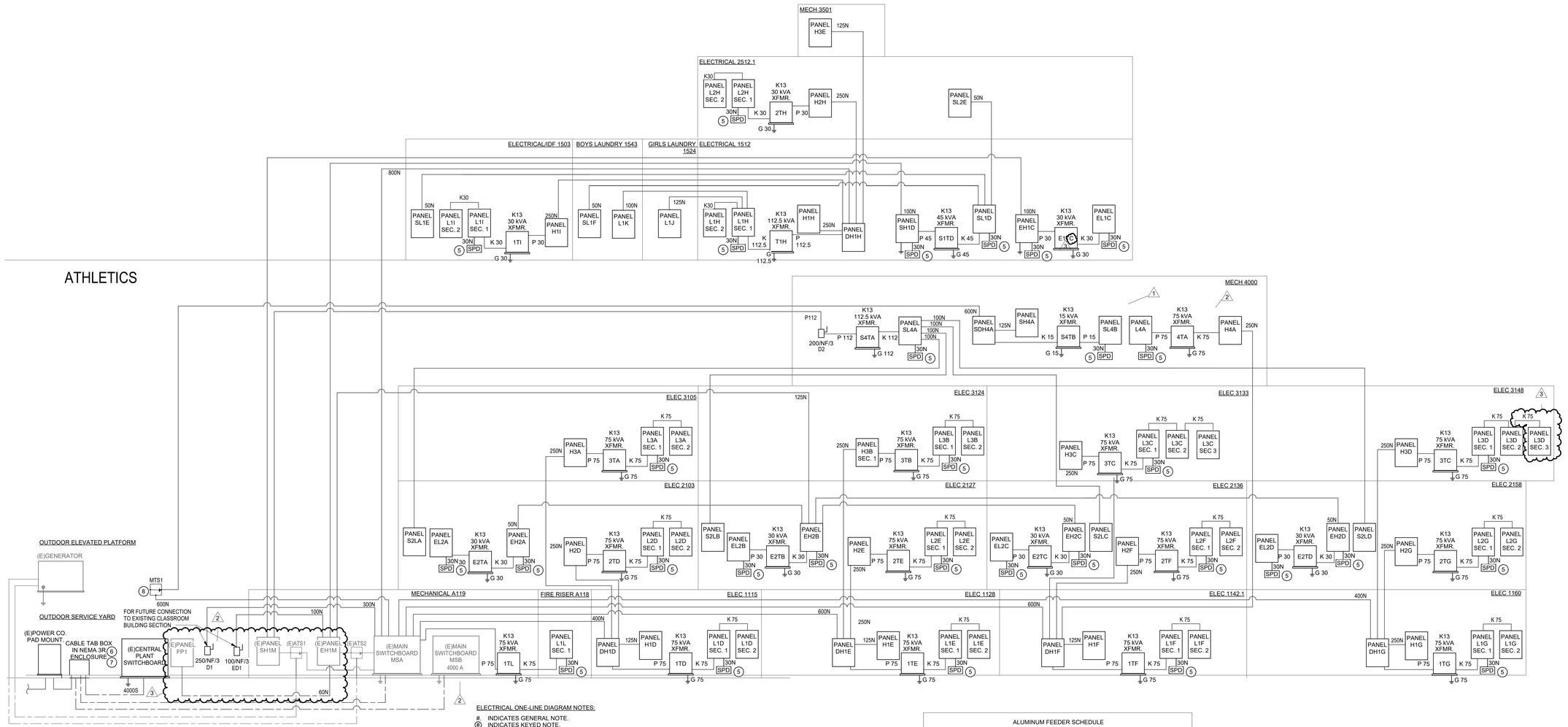
No.	Description	Date
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

ENLARGED ELECTRICAL PLAN

E-402

ELECTRICAL RISER DIAGRAM
E-502
FOR BLUEBEAM LABELING/OCR:



ELECTRICAL ONE-LINE DIAGRAM NOTES:

#. INDICATES GENERAL NOTE.
Ⓚ INDICATES KEYED NOTE.

1. UNLESS NOTED OTHERWISE, ALL TRANSFORMERS TO BE 480: 208/120 VOLT 3P, 4W.
2. PROVIDE THRU-FEED LUGS FOR ALL MULTI-SECTION PANELBOARDS.
3. REFERENCE ONE-LINE DIAGRAM.
4. 1#6 G, 3/4"C.
5. SURGE PROTECTIVE DEVICE, RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. PER LOCAL UTILITY COMPANY STANDARDS.
7. COORDINATE WITH UTILITY AND OWNER FOR SHUTDOWN OF EXISTING SERVICE TO CONNECT NEW SERVICE FOR CENTRAL PLANT. EXISTING CABLE TAP BOX SHALL BE REPLACED TO ACCOMMODATE CONNECTION OF NEW SERVICE.
8. ESL POWER SERIES 3080 600 A 100% RATED 65 KAIC STORM SWITCH OR APPROVED EQUAL

ALUMINUM FEEDER SCHEDULE

TAG NUMBER	CONDUCTOR QUANTITY AND SIZE	CONDUIT SIZE	SETS	COMMENTS
200	3#250, 1#4G	2"	1	
200N	4#250, 1#4G	2 1/2"	1	
225	3#300, 1#2G	2 1/2"	1	
225N	4#300, 1#2G	3"	1	
250	3#350, 1#2G	2 1/2"	1	
250N	4#350, 1#2G	3"	1	
300	3#500, 1#2G	3"	1	
300N	4#500, 1#2G	3"	1	
400	3#250, 1#1G	2 1/2"	2	
400N	4#250, 1#1G	2 1/2"	2	
600	3#500, 1#2/0G	3"	2	
600N	4#500, 1#2/0G	3 1/2"	2	
800	3#400, 1#3/0G	3"	3	
800N	4#400, 1#3/0G	3"	3	
1200	3#500, 1#3/0G	3"	4	
1200N	4#500, 1#3/0G	3 1/2"	4	

2 NOTE
ALUMINUM CONDUCTORS SHOWN SHALL ONLY BE PERMITTED FOR FEEDERS. ALUMINUM CONDUCTORS ARE NOT PERMITTED FOR BRANCH CIRCUITS TO INCLUDE MOTOR FEEDS AND SERVICE CONDUCTORS.

FEEDER SCHEDULE

TAG NUMBER	CONDUCTOR QUANTITY AND SIZE	CONDUIT SIZE	SETS	COMMENTS
30N	4#10, 1#10G	1"	1	
50N	4#6, 1#10G	1"	1	
60N	4#6, 1#10G	1"	1	
100	3#1, 1#8G	1 1/2"	1	
100N	4#1, 1#8G	1 1/2"	1	
125	3#1, 1#6G	1 1/2"	1	
125N	4#1, 1#6G	2"	1	
150	3#1/0, 1#6G	1 1/2"	1	
150N	4#1/0, 1#6G	2"	1	
175	3#2/0, 1#6G	2"	1	
175N	4#2/0, 1#6G	2"	1	
200	3#3/0, 1#6G	2"	1	
200N	4#3/0, 1#6G	2"	1	
225	3#4/0, 1#4G	2"	1	
225N	4#4/0, 1#4G	2 1/2"	1	
250	3#250, 1#4G	2 1/2"	1	
250N	4#250, 1#4G	3"	1	
300	3#350, 1#4G	3"	1	
300N	4#350, 1#4G	3"	1	
400	3#3/0, 1#3G	2"	2	
400N	4#3/0, 1#3G	2"	2	
400S	4#500	3 1/2"	1	
600	3#350, 1#1G	3"	2	
600N	4#350, 1#1G	3"	2	
600S	4#350	3"	2	
800	3#500, 1#1/0G	3"	2	
800N	4#500, 1#1/0G	3 1/2"	2	
800S	4#500	3 1/2"	2	
1000	3#400, 1#2/0G	3"	3	
1000N	4#400, 1#2/0G	3"	3	
1000S	4#400	3"	3	
1200	3#350, 1#3/0G	3"	4	
1200N	4#350, 1#3/0G	3"	4	
1200S	4#350	3"	4	
1600S	4#400	3"	5	
2000S	4#400	3"	6	
2500S	4#500	3 1/2"	7	
3000S	4#500	3 1/2"	8	
4000S	4#500	3 1/2"	11	

TRANSFORMER FEEDER SCHEDULE

TAG NUMBER	CONDUCTOR QUANTITY AND SIZE	CONDUIT SIZE	SETS	COMMENTS
P15	3#10, 1#10G	3/4"	1	
S15	4#6, 1#8G	1"	1	
K15	3#4, 1#6N, 1#8G	1 1/4"	1	
G15	1#8G	1/2"	1	
P15	2#8, 1#10G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
S15	3#4, 1#6G	1 1/2"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
G15	1#6G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
P25	2#6, 1#10G	1"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
D25	3#1, 1#6G	1 1/2"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
G25	1#6G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
P30	3#6, 1#10G	3/4"	1	
S30	4#1, 1#6G	1 1/2"	1	
K30	3 #1/0, 1#2/0N, 1#6G	2"	1	
G30	1#6G	1/2"	1	
P37	2#1, 1#6G	1 1/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
D37	3#3/0, 1#4G	3"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
G37	1#4G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
P45	3#4, 1#8G	1"	1	
S45	4#1/0, 1#6G	1 1/2"	1	
K45	3#2/0, 1#250, 1#4G	2"	1	
G45	1#6G	1/2"	1	
P50	2#1, 1#6G	1 1/4"	1	
S50	3#3/0, 1#3G	2"	1	
G50	1#3G	3/4"	1	
P75	3#1, 1#8G	1 1/2"	1	
S75	4#4/0, 1#2G	2 1/2"	1	
K75	3#4/0, 2#3/0N, 1#2G	2 1/2"	1	
G75	1#1/0G	1/2"	1	
P75	2#3/0, 1#6G	2"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
S75	3#3/0, 1#4G	2"	2	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
G75	1#4G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
P75A	3#1, 1#8G	1 1/2"	1	FOR 480 3Ø: 120/240 3Ø TRANSFORMERS
S75A	4#4/0, 1#2G	2 1/2"	1	FOR 480 3Ø: 120/240 3Ø TRANSFORMERS
G75A	1#2G	1/2"	1	FOR 480 3Ø: 120/240 3Ø TRANSFORMERS
P112	3#2/0, #6G	2"	1	
S112	4#3/0, 1#1/0G	2"	2	
K112	3#4/0, 1#350N, 1#1/0G	2 1/2"	2	
G112	1#1/0G	3/4"	1	
P150	3#250, 1#4G	2 1/2"	1	
S150	3#350, 1#2/0G	3"	2	
K150	3#350, 2#3/0N, 1#2/0G	3"	2	
G150	1#2/0G	3/4"	1	
P167	2#4/0, 1#2/0G	2"	2	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
S167	3#350, 1#3/0G	3"	3	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
G167	1#3/0G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
P225	3#500, 3#3G	3"	1	
S225	4#300, 1#2/0G	3"	1	
K225	3#350, 2#3/0, 1#1G	3 1/2"	3	
G225	1#2/0G	3/4"	1	

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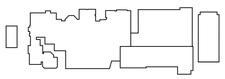
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD
EXCELLENCE IN EVERY CHILD



KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT
Galena Park ISD

DATE: December 5, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL RISER DIAGRAM

E-502

Plot Stamp:
1/7/2026 7:45:50 PM

0"
1"

ELECTRICAL CONTACTOR SCHEDULE
E-601
FOR BLUEBEAM LABELING/DOCR:

GENERAL LIGHTING SCHDULES NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN AND RELATED DETAILS TO DETERMINE PROPER CEILING TYPE COMPATIBILITY FOR EACH LUMINAIRE. PROVIDE ANY EXTRA FITTINGS OR OPTIONS AS REQUIRED TO ENSURE CORRECT MOUNTING IN THE GIVEN CEILING.
2. PROVIDE FIRE RATED CANOPY OR ENCLOSURE FOR ALL FIXTURES RECESSED IN A FIRE RATED CEILING. THE FIRE RATED CANOPY OR ENCLOSURE SHALL BE REQUIRED BY THE UL DESIGN NUMBER LISTED IN THE UL FIRE RESISTANCE DIRECTORY. REFER TO ARCHITECTURAL DRAWING FOR THE UL DESIGN NUMBER. COORDINATE WITH CEILING INSTALLER AND MANUFACTURER.

FIXTURE SCHEDULE: GALENA PARK ISD - HIGH SCHOOL 3B

Label	Manuf.	Catalog Number	Description	Lamp Lumens	Watts
A1	Lithonia	CPX 2X4 3000LM 80 40K SWL MIN10 ZT MVOLT -	RECESSED 2X4 FLAT PANEL - 3000 LUMEN	3368	25
A1H	Lithonia	CPX 2X4 3000LM 80 40K SWL MIN10 ZT MVOLT -...	RECESSED 2X4 FLAT PANEL - 3000 LUMEN - HARD...	3368	25
A2	Lithonia	CPX 2X4 4000LM 80 40K SWL MIN10 ZT MVOLT	RECESSED 2X4 FLAT PANEL - 4000 LUMEN	4935	37
A3	Lithonia	CPX 2X4 5000LM 80 40K SWL MIN10 ZT MVOLT	RECESSED 2X4 FLAT PANEL - 5000 LUMEN	5193	40
A3H	Lithonia	CPX 2X4 5000LM 80 40K SWL MIN10 ZT MVOLT DGA24	RECESSED 2X4 FLAT PANEL - 5000 LUMEN - HARD...	5193	40
A4	Lithonia	CPX 2X4 10000LM 80 40K A12 MIN10 ZT MVOLT	RECESSED FLAT PANEL - 10000 LUMEN	10629	88
A4H	Lithonia	CPX 2X4 10000LM 80 40K A12 MIN10 ZT MVOLT DG24	RECESSED FLAT PANEL - 10000 LUMEN - HARD...	10629	88
D1	Gotham	IVO4 D 15LM 40K 80CRI WD MIN10 MVOLT ZT NCH P...	RECESSED 4 INCH DOWNLIGHT - 1500 LUMEN	1447	16
D2	Gotham	IVO4 D 20LM 40K 80CRI WD MIN10 MVOLT ZT NCH P...	RECESSED 4 INCH DOWNLIGHT - 2000 LUMEN	1893	22
D3	Gotham	IVO4 D 30LM 40K 80CRI WD MIN10 MVOLT ZT NCH P...	RECESSED 4 INCH DOWNLIGHT - 3000 LUMEN	2732	30
D4W	Gotham	IVO6 D 40LM 40K 80CRI WD MIN10 MVOLT ZT NCH W...	RECESSED 6 INCH DOWNLIGHT - 4000 LUMEN - WE...	3086	40
D5W	Gotham	IVO6 D 10LM 40K 80CRI WD MIN10 MVOLT ZT NCH W...	RECESSED 6 INCH DOWNLIGHT - 4000 LUMEN - WE...	3086	40
ES2	Prudential	BHEX-PRO 2'X6 HO SAL XX (FINISH) UNV CA48 X3 DM01	SUSPENDED HOLLOW HEXAGON	17500	150
G2	Lithonia	CPHB 24000LM SEF GCL WD MVOLT GZ10 40K 80CRI...	SUSPENDED HIGH BAY - 24000 LUMEN - GYM	24000	15
G3	Lithonia	CPHB 36000LM SEF GCL WD MVOLT GZ10 40K 80CRI...	SUSPENDED HIGH BAY - 36000 LUMEN -GYM	37596	235
H1	Lux Dynamics	E-5-DA-840-4-U10 WP T 5/10 XX(EM) RMS 10Y M...	SUSPENDED HIGH BAY - REMOTE DRIVER -...	62225	371
LA2	Focal Point	ASM2S_BW 12" 1200LF 40K 1C UNV LD1 J48 BKCD XX(ACOUSTIC COLOR) XX(RUN LENGTH)	SUSPENDED LIT ACOUSTIC BAFFLE - - VERIFY SUSPENSION LENGTH	1200L/FT	10.7W/FT
LAN	Focal Point	AUSM2S SD 12" J48 NH CRT XX(RUN LENGTH)	SUSPENDED UN- LIT ACOUSTIC BAFFLE - ORANGE -...	NA	NA
LR1	Focal Point	FSM2L-BW-750LF 40K 1C UNV LD1 XX(CEILING) MW...	RECESSED LINEAR (2") - GRID - 750L/FT	750L/FT	6.5W/FT
LR2	Focal Point	FSM2L-BW-1000LF 40K 1C UNV LD1 XX(CEILING) MW...	RECESSED LINEAR (2") - GRID - 1000L/FT	1000L/FT	8W/FT
M1	Lithonia	CLX L48 5000LM SEF FDL MVOLT GZ10 40K 80CRI WH...	SUSPENDED UTILITY STRIP	4940	32
N	Eureka	4720-36 ST XX LED LO 40 90 277V DV XX(FINISH)	ENTRY WAY 36" HEXIGONAL FIXTURE.	3784	39
O	Gotham	IVO4CYL PC D 30LM 40K 80CRI 45D MIN10 MVOLT AT L5 JBX CAN XX(XPENDANT LENGTH) BEV AR ARS SLG L...	PENDANT CYLINDER FIXTURE. COORDINATE MOUNTING HEIGHT WITH SLAT DEPTH	3000	30
SW	Prudential	Wal14-LED4 HO 6' WFA TMW SC UNV WM DM01 S05	SURFACE WALL LINEAR - 6'	7500	72
W1	Lithonia	WDGE2 LED P3 40K 80CRI T3M MVOLT SRM...	SURFACE WALL PACK	3629	32
WS	AFX	REAW0548LAJUD 4000K BB	EXTERIOR - SURFACE WALL SCONCE 48"	2723	40
X1	Barron	ILX RG EM WH	EXIT UNIVERSAL MOUNTING	3629	3

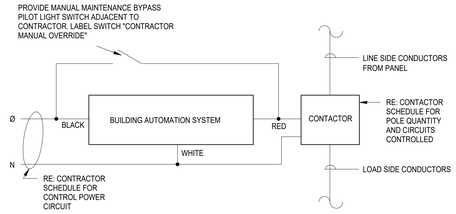
3

3

CONTACTOR SCHEDULE

DESIG- NATION	CIRCUITS SERVED	CONTACTOR CHARACTERISTICS					REMARKS
		CONTACT AMPS	N.O. POLES	COIL VOLTS	CONTROL	SUPPLY CKT.	
C1A1		20	6	120	DDC	L1I-44	SIEMENS CLASS LC OR ABB CR460
C1A1-1	H1I-3						
C1A1-2	H1I-5						
C1A1-3	H1I-7						
C1A1-4 TO 6	SPARE						
C1A2		20	4	120	DDC	L11-44	SIEMENS CLASS LC OR ABB CR460
C1A2-1	H1I-9						
C1A2-2 TO 4	SPARE						
C1B1		20	6	120	DDC	L1H-46	SIEMENS CLASS LC OR ABB CR460
C1B1-1	H1H-9						
C1B1-2	H1H-11						
C1B1-3	H1H-13						
C1B1-4 TO 6	SPARE						
C1B2		20	4	12	DDC	L1H-46	SIEMENS CLASS LC OR ABB CR460
C1B2-1	H1H-3						
C1B2-2	H1H-5						
C1B2-3 TO 4	SPARE						
C1C1		20	6	120	DDC	L1G-36	SIEMENS CLASS LC OR ABB CR460
C1C1-1	H1G-13						
C1C1-2	H1G-15						
C1C1-3	H1G-17						
C1C1-4 TO 6	SPARE						
C1C2		20	4	120	DDC	L1G-36	SIEMENS CLASS LC OR ABB CR460
C1C2-1	H1G-3						
C1C2-2 TO 4	SPARE						
C1D1		20	4	120	DDC	L1F-80	SIEMENS CLASS LC OR ABB CR460
C1D1-1	H1F-7						
C1D1-2 TO 4	SPARE						
C1E1		20	6	120	DDC	L1D-44	SIEMENS CLASS LC OR ABB CR460
C1E1-1	H1D-9						
C1E1-2	H1D-11						
C1E1-3	H1D-17						
C1E1-4 TO 6	SPARE						
C1E2		20	4	120	DDC	L1D-44	SIEMENS CLASS LC OR ABB CR460
C1E2-1	H1D-3						
C1E2-2 TO 4	SPARE						
C1F1		20	4	120	DDC	L1E-82	SIEMENS CLASS LC OR ABB CR460
C1F1-1	H1E-1						
C1F1-2 TO 4	SPARE						
C2C1		20	4	120	DDC	L2F-79	SIEMENS CLASS LC OR ABB CR460
C2C1-1	H2F-3						
C2C1-2 TO 4	SPARE						
C2F1		20	4	120	DDC	L2E-77	SIEMENS CLASS LC OR ABB CR460
C2F1-1	H2E-3						
C2F1-2 TO 4	SPARE						
C3C1		20	4	120	DDC	L3D-65	SIEMENS CLASS LC OR ABB CR460
C3C1-1	H3D-3						
C3C1-2 TO 4	SPARE						
C3F1		20	4	120	DDC	L3B-66	SIEMENS CLASS LC OR ABB CR460
C3F1-1	H3B-3						
C3F1-2 TO 4	SPARE						

E.G. CONTACTOR NAMING C1A1-1
- POLE NUMBER
- ID NUMBER
- AREA SERVED FROM
- FLOOR



1 CONTACTOR CONTROL DIAGRAM
NOT TO SCALE

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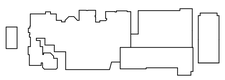
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL CONTACTOR SCHEDULE

E-601

Plot Stamp:
1/7/2026 7:45:51 PM

ELECTRICAL PANEL SCHEDULES
EP-700

FOR BLUEBEAM LABELING/OCR:

0"
1"

Electrical...

AIC Rating: **65000**

Job: GPISD Phase 3b

Volts - Phase: **480Y/277V-3PH 4W**

Job No.: 240539

DISTRIBUTI... **DH1D**

Served From:

Connected Load (KVA)

Cir. No.	Load Served	Amp/Poles	Wire and Conduit Size	Lighting	Conv. Outlets	Motors	Heating	Cooling	Others	Elect. Cooking	Spare/ Spaces	Elevators	Residential	Total KVA	Total Amps
1	PANEL H1D	125/3	SEE RISER	11.2	36.8	36.8	0.0	0.0	65.8	0.0	0.0			150.7	181.3
2	PANEL H2D	250/3	SEE RISER	#N/A	0.0	3.8	73.8	0.0	0.0	0.0				#N/A	#N/A
3	PANEL H3D	250/3	SEE RISER	3.8	21.4	32.6	0.0	0.0	5.0	0.0				62.9	75.6
4	XFMR 1TD(75 KVA)	125/3	SEE RISER	0.0	20.9	1.7	0.0	0.0	16.1	0.0				38.7	46.5
5	AHU-E1-01	20/3	4#12, 1#4G 3"C											0.0	0.0
6	AHU-F1-01	20/3	4#12, 1#4G 3"C											0.0	0.0
7	OAHU-E1-01	20/3	4#12, 1#4G 3"C											0.0	0.0
8	SPACE													0.0	0.0
9	SPACE													0.0	0.0
10	SPACE													0.0	0.0
11	SPACE													0.0	0.0
12	SPACE													0.0	0.0
Total...				#N/A	42.3	45.4	73.8	0.0	21.2	0.0	0.0	0.0	0.0	#N/A	#N/A
Demand...				1.25	*	**	1.0	1.0	1.00	0.65	0.5	***	****	--	--
Total...				#N/A	26.2	45.4	73.8	0.0	21.2	0.0	0.0	0.0	0.0	#N/A	#N/A

* 100% of 1st 10 KVA, 50% of remaining.
** 125% of...
*** Elevator...
****...

Largest... _____ KVA

DISTRIBUTION PANEL:		DH1D
MAINS (1)	TYPE:	MAIN BREAKER
	SIZE:	400 AMP
BUS SIZE	PHASE:	400 AMP
	NEUTRAL:	400 AMP
	GROUND:	PER NEC

Date: 1/7/2026 By: Designer

Electrical...

AIC Rating: **65000**

Job: GPISD Phase 3b

Volts - Phase: **480Y/277V-3PH 4W**

Job No.: 240539

DISTRIBUTI... **DH1E**

Served From:

Connected Load (KVA)

Cir. No.	Load Served	Amp/Poles	Wire and Conduit Size	Lighting	Conv. Outlets	Motors	Heating	Cooling	Others	Elect. Cooking	Spare/ Spaces	Elevators	Residential	Total KVA	Total Amps
1	PANEL H1E	125/3	4#250N, 1#4G 3"C	#N/A	0.0	3.5	0.0	0.0	0.0	0.0	0.0			#N/A	#N/A
2	PANEL H2E	250/3	4#250N, 1#4G 3"C	#N/A	0.0	31.4	0.0	16.0	0.0	0.0				#N/A	#N/A
3	PANEL H3E	250/3	4#250N, 1#4G 3"C	4.7	23.9	68.5	0.0	10.0	6.0	0.0	0.0			113.1	136.0
4	1TE(75 KVA)	125/3	SEE RISER	0.0	23.6	0.5	0.0	0.0	9.5	0.0	5.0			38.7	46.5
5	AHU-E1-01	20/3	4#12, 1#10G 1"C			11.2								11.2	13.4
6	AHU-F1-01	20/3	4#12, 1#10G 1"C			8.8								8.8	10.5
7	OAHU-E1-01	20/3	4#12, 1#10G 1"C			8.8								8.8	10.5
8	SPARE	250/3												0.0	0.0
9	SPACE													0.0	0.0
10	SPACE													0.0	0.0
11	SPACE													0.0	0.0
12	SPACE													0.0	0.0
Total...				#N/A	47.5	132.7	0.0	25.9	15.5	0.0	5.0	0.0	0.0	#N/A	#N/A
Demand...				1.25	*	**	1.0	1.0	1.00	0.65	0.5	***	****	--	--
Total...				#N/A	28.8	132.7	0.0	25.9	15.5	0.0	2.5	0.0	0.0	#N/A	#N/A

* 100% of...
** 125% of...
*** Elevator...
****...

Largest... _____ KVA

DISTRIBUTION PANEL:		DH1E
MAINS (1)	TYPE:	MAIN BREAKER
	SIZE:	600 AMP
BUS SIZE	PHASE:	600 AMP
	NEUTRAL:	600 AMP
	GROUND:	PER NEC

Date: 1/7/2026 By: Designer

Electrical...

AIC Rating: **65000**

Job: GPISD Phase 3b

Volts - Phase: **480Y/277V-3PH 4W**

Job No.: 240539

DISTRIBUTI... **DH1F**

Served From: UTILITY CO TRANSFORMER

Connected Load (KVA)

Cir. No.	Load Served	Amp/Poles	Wire and Conduit Size	Lighting	Conv. Outlets	Motors	Heating	Cooling	Others	Elect. Cooking	Spare/ Spaces	Elevators	Residential	Total KVA	Total Amps
1	PANEL H1F	125/3	SEE RISER	#N/A	0.0	5.8	0.0	0.0	0.0	0.0	0.0			#N/A	#N/A
2	PANEL H2F	250/3	SEE RISER	#N/A	0.0	31.4	0.0	16.0	0.0	0.0				#N/A	#N/A
3	PANEL H3C	250/3	SEE RISER	2.5	27.7	61.0	0.0	0.0	8.0	0.0	0.0			99.2	119.3
4	PANEL H4A	250/3	SEE RISER	1.3	0.0	122.1	0.0	0.0	3.8	0.0	0.0			127.2	153.0
5	1TE(75 KVA)	125/3	SEE RISER	0.0	23.6	0.5	0.0	0.0	9.5	0.0	5.0			38.7	46.5
6	AHU-C1-01	20/3	4#12, 1#10G 1"C			8.8								8.8	10.5
7	AHU-D1-01	20/3	4#12, 1#10G 1"C			11.2								11.2	13.4
8	OAHU-C1-01	20/3	4#12, 1#10G 1"C			11.2								11.2	13.4
9	SPACE													0.0	0.0
10	SPACE													0.0	0.0
11	SPACE													0.0	0.0
12	SPACE													0.0	0.0
Total...				#N/A	51.2	251.9	0.0	16.0	21.3	0.0	5.0	0.0	0.0	#N/A	#N/A
Demand...				1.25	*	**	1.0	1.0	1.00	0.65	0.5	***	****	--	--
Total...				#N/A	30.6	251.9	0.0	16.0	21.3	0.0	2.5	0.0	0.0	#N/A	#N/A

* 100% of...
** 125% of...
*** Elevator...
****...

Largest... _____ KVA

DISTRIBUTION PANEL:		DH1F
MAINS (1)	TYPE:	
	SIZE:	600 AMP
BUS SIZE	PHASE:	600 AMP
	NEUTRAL:	600 AMP
	GROUND:	PER NEC

Date: 1/7/2026 By: Designer

Electrical...

AIC Rating: **65000**

Job: GPISD Phase 3b

Volts - Phase: **480Y/277V-3PH 4W**

Job No.: 240539

DISTRIBUTI... **DH1G**

Served From: UTILITY CO TRANSFORMER

Connected Load (KVA)

Cir. No.	Load Served	Amp/Poles	Wire and Conduit Size	Lighting	Conv. Outlets	Motors	Heating	Cooling	Others	Elect. Cooking	Spare/ Spaces	Elevators	Residential	Total KVA	Total Amps
1	PANEL H1G	125/3	4#250N, 1#4G 3"C	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0			#N/A	#N/A
2	PANEL H2G	250/3	4#250N, 1#4G 3"C	#N/A	15.5	4.0	0.0	0.0	3.8	0.0	0.0			#N/A	#N/A
3	PANEL H3D	250/3	4#250N, 1#4G 3"C	4.4	26.3	22.2	0.0	11.3	2.6	0.0	0.0			67.0	80.6
4	1TE(75 KVA)	125/3	SEE RISER	0.0	5.7	0.0	0.0	0.0	0.0	0.0	2.0			7.7	9.3
5	SPACE													0.0	0.0
6	SPACE													0.0	0.0
7	SPACE													0.0	0.0
8	SPACE													0.0	0.0
9	SPACE													0.0	0.0
10	SPACE													0.0	0.0
11	SPACE													0.0	0.0
12	SPACE													0.0	0.0
Total...				#N/A	47.5	26.2	0.0	11.3	6.5	0.0	2.0	0.0	0.0	#N/A	#N/A
Demand...				1.25	*	**	1.0	1.0	1.00	0.65	0.5	***	****	--	--
Total...				#N/A	28.8	26.2	0.0	11.3	6.5	0.0	1.0	0.0	0.0	#N/A	#N/A

* 100% of...
** 125% of...
*** Elevator...
****...
(1) PROVIDE METER MAIN, SEE ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.

Largest... _____ KVA

DISTRIBUTION PANEL:		DH1G
MAINS (1)	TYPE:	MAIN BREAKER
	SIZE:	400 AMP
BUS SIZE	PHASE:	400 AMP
	NEUTRAL:	400 AMP
	GROUND:	PER NEC

Date: 1/7/2026 By: Designer

Electrical...

AIC Rating: **65000**

Job: GPISD Phase 3b

Volts - Phase: **480Y/277V-3PH 4W**

Job No.: 240539

DISTRIBUTI... **DH1H**

Served From: UTILITY CO TRANSFORMER

Connected Load (KVA)

Cir. No.	Load Served	Amp/Poles	Wire and Conduit Size	Lighting	Conv. Outlets	Motors	Heating	Cooling	Others	Elect. Cooking	Spare/ Spaces	Elevators	Residential	Total KVA	Total Amps
1	H1H	250/3	SEE RISER	11.2	17.6	67.7	9.0	4.7	10.8	0.0	0.0			120.5	144.9
2	H1I	250/3	SEE RISER	10.7	17.6	67.7	9.0	4.7	10.8	0.0	0.0			120.5	144.9
3	H2H	250/3	SEE RISER	6.5	7.2	44.9	0.0	19.0	6.8	0.0	0.0			84.4	101.5
4	H3E	125/3	SEE RISER	0.0	0.0	57.8	0.0	0.0	0.0	0.0	0.0			57.8	69.6
5	1GP(1TH)	125/3	SEE RISER	0.0	0.0	30.7	0.0	0.0	43.8	0.0	0.0			74.5	89.6
6	ELEVATOR	20/3	4#6, 1#10 G 1"C			30.7								30.7	37.2
7	SPACE													0.0	0.0
8	SPACE													0.0	0.0
9	SPACE													0.0	0.0
10	SPACE													0.0	0.0
11	SPACE													0.0	0.0
12	SPACE													0.0	0.0
Total...				28.4	98.5	239.7	9.0	23.7	149.3	0.0	0.0	0.0	0.0	548.6	659.8
Demand...				1.25	*	**	1.0	1.0	1.00	0.65	0.5	***	****	--	--
Total...				35.5	54.3	239.7	0.0	23.7	149.3	0.0	0.0	0.0	0.0	502.4	604.3

* 100% of...
** 125% of...
*** Elevator...
****
(1) PROVIDE METER MAIN, SEE ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.

Largest... _____ KVA

DISTRIBUTION PANEL:		DH1H
MAINS (1)	TYPE:	MAIN BREAKER
	SIZE:	800 AMP
BUS SIZE	PHASE:	800 AMP
	NEUTRAL:	800 AMP
	GROUND:	PER NEC

Date: 1/7/2026 By: Designer

Electrical...

AIC Rating: **65000**

Job: GPISD Phase 3b

Volts - Phase: **480Y/277V-3PH 4W**

Job No.: 240539

DISTRIBUTI... **DH4A**

Served From: UTILITY CO TRANSFORMER

Connected Load (KVA)

Cir. No.	Load Served	Amp/Poles	Wire and Conduit Size	Lighting	Conv. Outlets	Motors	Heating	Cooling	Others	Elect. Cooking	Spare/ Spaces	Elevators	Residential	Total KVA	Total Amps
1	RTU-MP-01	225/3	4#4/0, 1#4, 2-1/2" C			156.8								156.8	188.6
2	RTU-MP-02	225/3	4#4/0, 1#4, 2-1/2" C			156.8								156.8	188.6
3	SPACE													0.0	0.0
4	SPACE													0.0	0.0
5	SPACE													0.0	0.0
6	SPACE													0.0	0.0
7	SPACE													0.0	0.0
8	SPACE													0.0	0.0
9	SPACE													0.0	0.0
10	SPACE													0.0	0.0
11	SPACE													0.0	0.0
12	SPACE													0.0	0.0
Total...				0.0	0.0	313.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	313.6	377.2
Demand...				1.25	*	**	1.0	1.0	1.00	0.65	0.5	***	****	--	--
Total...				0.0	0.0	313.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	313.6	377.2

* 100% of...
** 125% of...
*** Elevator...
****
(1) PROVIDE METER MAIN, SEE ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.

Largest... _____ KVA

DISTRIBUTION PANEL:		DH4A
MAINS (1)	TYPE:	MAIN BREAKER
	SIZE:	600 AMP
BUS SIZE	PHASE:	600 AMP
	NEUTRAL:	600 AMP
	GROUND:	PER NEC

Date: 1/7/2026 By: Designer

Electrical...

AIC Rating: **65000**

Job: GPISD Phase 3b

Volts - Phase: **480Y/277V-3PH 4W**

Job No.: 240539

DISTRIBUTI... **(E)MSA**

Served From: UTILITY CO TRANSFORMER

Connected Load (KVA)

Cir. No.	2 Load Served	Amp/Poles	Wire and Conduit Size	Lighting	Conv. Outlets	Motors	Heating	Cooling	Others	Elect. Cooking	Spare/ Spaces	Elevators	Residential	Total KVA	Total Amps
1	(E)SPARE(PREVIOUS CH-1)	700/3												0.0	0.0
2	(E)H1M	400/3	EXISTING			94.6								94.6	113.8
3	(E)H1K	225/3	EXISTING			18.1	30.0		23.2					71.3	85.7
4	(E)X1K	350/3	EXISTING						214.2					214.2	257.6
5	(E)X1M	50/3	EXISTING	0.7	5.9	45.0			1.9					53.6	64.5
6	DH1D	400/3	SEE RISER	#N/A	42.3	45.4	73.8	0.0	21.2	0.0	0.0	0.0	0.0	#N/A	#N/A
7	DH1E	600/3	SEE RISER	#N/A	47.5	132.7	0.0	25.9	15.5	0.0	5.0	0.0	0.0	#N/A	#N/A
8	DH1F	600/3	SEE RISER	#N/A	51.2	251.9	0.0	16.0	21.3	0.0	5.0	0.0	0.0	#N/A	#N/A
9	DH1G	400/3	SEE RISER	#N/A	47.5	26.2	0.0	11.3	6.5	0.0	2.0	0.0	0.0	#N/A	#N/A
10	DH1H	800/3	SEE RISER	28.4	98.5	208.9	9.0	23.7	149.3	0.0	0.0	0.0	0.0	517.8	622.8
11	D1	250/3	SEE RISER												
12	MTS1(SDH4A)	600/3	SEE RISER	0.0	0.0	313.6	0.0	0.0	0.0	0.0	0.0				
13	1TL (75 KVA)	125/3	SEE RISER	0.0	0.0	39.5	0.0	0.0	0.0	0.0	0.0				
14	(E)SPARE	400/3													
15	(E)SPARE	225/3													
16	(E)SPARE	225/3												0.0	0.0
Total...	2			#N/A	293.0	1175.9	112.8	76.9	453.1	0.0	12.0	0.0	0.0	#N/A	#N/A
Demand...				1.25	*	**	1.0	1.0	1.00	0.65	0.5	***	****	--	--
Total...				#N/A	151.5	1175.9	112.8	0.0	453.1	0.0	6.0	0.0	0.0	#N/A	#N/A

* 100% of 1st 10 KVA, 50% of remaining.
** 125% of largest motor + 100% sum of remaining motors
*** Elevator Demand Factor based on T620-14.
**** Residential Demand Factor based on T220-32.
(1) Lockable

Largest... _____ KVA

DISTRIBUTION PANEL:		(E)MSA
MAINS (1)	TYPE:	MAIN BREAKER
	SIZE:	4000 AMP
BUS SIZE	PHASE:	4000 AMP
	NEUTRAL:	4000 AMP
	GROUND:	PER NEC

Date: 1/7/2026 By: Designer

Plot Stamp:
1/7/2026 7:45:53 PM

PBK

www.pbk.com

TX FIRM: BR 1608

HOUSTON, TX
713-865-0008

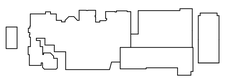
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED PROFESSIONAL ENGINEER
NAL ENGINEERING

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: OT

DRAWN BY: LT

ELECTRICAL PANEL SCHEDULES

EP-700

ELECTRICAL PANEL SCHEDULES
EP-704
FOR BLUEBEAM LABELING/OCR:

0"
1"

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting **SURFACE** — Main... **MCB (225A)** — Neutral **200%** — Voltage: **208Y/120V-3PH 4W** — Main... **225 AMPS** — Ground **Equipment Ground** — Lugs **FEED THRU**

PANEL: **L1D** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - LIFE A	20/1	12	1	A	2	12	20/1	RECP - RESOURCE A		540						0.00
	540						0.00	RECP - LIFE B	20/1	12	3	B	4	12	20/1	RECP - RESOURCE B		540						0.00
	720						0.00	RECP - LIFE C	20/1	12	5	C	6	12	20/1	RECP - RESOURCE C		720						0.00
	540						0.00	RECP - RRS, LAUNDRY	20/1	12	7	A	8	12	20/1	RECP - BEHAV #1 A		540						0.00
	540						0.00	RECP - MOCK A	20/1	12	9	B	10	12	20/1	RECP - BEHAV #1 B		540						0.00
	540						0.00	RECP - MOCK B	20/1	12	11	C	12	12	20/1	RECP - BEHAV #1 C		720						0.00
	1200						0.00	RECP - MOCK C	20/1	12	13	A	14	12	20/1	RECP - STOR		360						0.00
	180						0.00	RECP - MOCK D	20/1	12	15	B	16	12	20/1	RECP - BEHAV #2 A		540						0.00
	180						0.00	RECP - MOCK E	20/1	12	17	C	18	12	20/1	RECP - BEHAV #2 B		540						0.00
	180						0.00	RECP - MOCK F	20/1	12	19	A	20	12	20/1	RECP - BEHAV #2 C		720						0.00
							0.00	RECP - 18+ A	20/1	12	21	B	22	12	20/1	RECP - COLAB A		360						0.00
	540						0.00	RECP - 18+ B	20/1	12	23	C	24	12	20/1	RECP - COLAB B		360						0.00
	540						0.00	RECP - 18+ C	20/1	12	25	A	26	12	20/1	RECP - COLAB PROJ		1200						0.00
	720						0.00	RECP - 18+ D	20/1	12	27	B	28		20/1	SPARE								1.00
	540						0.00	RECP - 18+ E	20/1	12	29	C	30	10	20/1	RECP - MULTI		540						0.00
	720						0.00	RECP - LIFT	20/1	12	31	A	32	12	20/1	RECP - HALL		540						0.00
	540						0.00	RECP - LIFE A	20/1	12	33	B	34	12	20/1	RECP - WATER FOUN		1200						0.00
	540						0.00	RECP - LIFE B	20/1	12	35	C	36	12	20/1	RECP - RESTROOM		540						0.00
	720						0.00	RECP - LIFE C	20/1	12	37	A	38	10	30/3	SPD								0.00
	360						0.00	RECP - STOR, ELEC	20/1	12	39	B	40	-	-	-								0.00
							1.00	SPARE	20/1		41	C	42	-	-	-								0.00
0	10380	0	0	0	0	0	1.00	**TOTALS**								**TOTALS**	0	10500	0	0	0	0	0	1.00

PANEL: **L1D** — **2** — (Sectio...

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
					1200		0.00	WASHER #2(1)	20/1	12	43	A	44	12	20/1	CONTACT CIE1, CIE3						100		0.00
					2496		0.00	DRYER #2(1)	30/2	10	45	B	46											0.00
					2496		0.00	--	--	--	47	C	48											0.00
					4160		0.00	RANGE(1)	50/3		49	A	50											0.00
					4160		0.00	--	--		51	B	52											0.00
					500		0.00	FRIDGE(1)	20/1	12	53	C	54											0.00
					500		0.00	FRIDGE(1)	20/1	12	55	A	56											0.00
					500		0.00	FREEZER(1)	20/1	12	57	B	58											0.00
							0.00				59	C	60											0.00
							0.00				61	A	62											0.00
							0.00				63	B	64											0.00
							0.00				65	C	66											0.00
							0.00				67	A	68											0.00
							0.00				69	B	70											0.00
							0.00				71	C	72											0.00
							0.00				73	A	74											0.00
							0.00				75	B	76											0.00
							0.00				77	C	78											0.00
							0.00				79	A	80											0.00
											81	B	82											0.00
		180						VAV-E1-01-01	15/1	12	83	C	84	20/1	6	NANA WALL				1500					0.00
0	0	180	0	0	16012	0	0.00	**TOTALS**								**TOTALS**	0	0	0	1500	0	0	100	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	20.9	1.7	0.0	0.0	16.1	0.0	2.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	15.4	1.7	0.0	0.0	16.1	0.0	1.0	Design KVA

Phase Load	
Ph	KVA
A	14.3
B	13.2
C	11.2

Panel Remarks:
(1)GFI GROUND FAULT PROTECTION

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	40.7	112.9		34.2	95.0

PANEL: **L1D**

Date: 1/7/2026 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting **SURFACE** — Main... **MCB (225A)** — Neutral **200%** — Voltage: **208Y/120V-3PH 4W** — Main... **225 AMPS** — Ground **Equipment Ground** — Lugs **FEED THRU**

PANEL: **L1E** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - LIFE A	20/1	12	1	A	2	12	20/1	RECP - MECH		540						0.00
	900						0.00	RECP - LIFE B	20/1	12	3	B	4	12	20/1	RECP - DIAG		720						0.00
	540						0.00	RECP - LIFE C	20/1	12	5	C	6	12	20/1	RECP - COOR		720						0.00
	720						0.00	RECP - TEMP CHOIR A	20/1	12	7	A	8	12	20/1	RECP - LSSP		720						0.00
	540						0.00	RECP - TEMP CHOIR B	20/1	12	9	B	10	12	20/1	RECP - CLERK		360						0.00
	720						0.00	RECP - TEMP CHOIR C	20/1	12	11	C	12	12	20/1	RECP - ARD CONF A		540						0.00
	540						0.00	RECP - TEMP CHOIR D	20/1	12	13	A	14	12	20/1	RECP - ARD CONF B		720						0.00
	900						0.00	RECP - SCHOOL BOOK	20/1	12	15	B	16	12	20/1	RECP - SPEECH		720						0.00
	1260						0.00	RECP - TEST, STOR	20/1	12	17	C	18	12	20/1	RECP - RR, STOR		360						0.00
	540						0.00	RECP - PLCWORK A	20/1	12	19	A	20		20/1	SPARE								1.00
	180						0.00	RECP - PLCWORK B	20/1	12	21	B	22		20/1	SPARE								1.00
	180						0.00	RECP - PLCWORK C	20/1	12	23	C	24		20/1	SPARE								1.00
	180						0.00	RECP - PLCWORK D	20/1	12	25	A	26	12	20/1	RECP - HALL, ELEC		1080						0.00
	180						0.00	RECP - PLCWORK E	20/1	12	27	B	28	10	20/1	RECP - MULTI		720						0.00
	180						0.00	RECP - PLCWORK F	20/1	12	29	C	30		20/1	SPARE								1.00
	180						0.00	RECP - PLCWORK G	20/1	12	31	A	32		20/1	SPARE								1.00
	720						0.00	RECP - TEST OFF	20/1	12	33	B	34	12	20/1	RECP - ELEV CONV		180						0.00
	720						0.00	RECP - TEMP BAND A	20/1	12	35	C	36	12	20/1	RECP - ELEV SUMP			360					0.00
	720						0.00	RECP - TEMP BAND B	20/1	12	37	A	38	10	30/3	SPD								0.00
	720						0.00	RECP - TEMP BAND C	20/1	12	39	B	40	-	-	-								0.00
							0.00	SPACE			41	C	42	-	-	-								0.00
0	11160	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	7380	360	0	0	0	0	5.00

PANEL: **L1E** — **2** — (Sectio...

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
					500		0.00	RECP - REFRIG(1)	20/1	12	43	A	44	12	20/1	RECP - COMP LAB A		720						0.00
					1200		0.00	RECP - COPIER(1)	20/1	12	45	B	46	12	20/1	RECP - COMP LAB B		720						0.00
							0.00	RECP - COPIER SPEC(1)	20/2	12	47	C	48	12	20/1	RECP - COMP LAB C		360						0.00
							0.00	--	--	--	49	A	50	12	20/1	RECP - COMP LAB D		360						0.00
					1200		0.00	RECP - COPIER	20/1	12	51	B	52	12	20/1	RECP - COMP LAB E		360						0.00
					1200		0.00	RECP - COPIER SPEC	20/2	12	53	C	54	12	20/1	RECP - COMP LAB F		360						0.00
							0.00	--	--	--	55	A	56	12	20/1	RECP - COMP LAB G		360						0.00
					1200		0.00	RECP - WATER FOUNT	20/1	12	57	B	58	12	20/1	RECP - COMP LAB H		360						0.00
							0.00				59	C	60	12	20/1	RECP - COMP LAB I		360						0.00
							0.00				61	A	62	12	20/1	RECP - COMP LAB J		360						0.00
							0.00				63	B	64	12	20/1	RECP - COMP LAB K		360						0.00
							0.00				65	C	66	12	20/1	RECP - COMP LAB L		360						0.00
							0.00				67	A	68											0.00
							0.00				69	B	70											0.00
							0.00				71	C	72											0.00
							0.00				73	A	74											0.00
					1200		0.00	UV OAHU-E1-01	20/1	12	75	B	76											0.00
					1200		0.00	UV AHU-E1-01	20/1	12	77	C	78											0.00
					1200		0.00	UV AHU-F1-01	20/1	12	79	A	80											0.00
					360		0.00	BAS PANEL	20/1	12	81	B	82											0.00
	180						0.00	VAV-F1-01-01	15/1	12	83	C	84	12	20/1	TRAP PRIMER								0.00
0	180	0	0	0	9260	0	0.00	**TOTALS**								**TOTALS**	0	5040	0	0	0	280	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	23.6	0.5	0.0	0.0	9.5	0.0	5.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	16.8	0.5	0.0	0.0	9.5	0.0	2.5	Design KVA

Phase Load	
Ph	KVA
A	10.0
B	13.9
C	9.8

Panel Remarks:
(1)GFI GROUND FAULT PROTECTION

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	38.7	107.3		29.4	81.5

Date: 1/7/2026 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting **SURFACE** — Main... **MCB (225A)** — Neutral **200%** — Voltage: **208Y/120V-3PH 4W** — Main... **225 AMPS** — Ground **Equipment Ground** — Lugs **FEED THRU**

PANEL: **L1F** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - ENGL #4 A	20/1	12	1	A	2	12	20/1	RECP - ENGL #12 A		540						0.00
	540						0.00	RECP - ENGL #4 B	20/1	12	3	B	4	12	20/1	RECP - ENGL #12 B		900						0.00
	720						0.00	RECP - ENGL #4 C	20/1	12	5	C	6	12	20/1	RECP - ENGL #12 C		540						0.00
	540						0.00	RECP - ENGL #3 A	20/1	12	7	A	8	12	20/1	RECP - ENGL #13 A		540						0.00
	540						0.00	RECP - ENGL #3 B	20/1	12	9	B	10	12	20/1	RECP - ENGL #13 B		900						0.00
	720						0.00	RECP - ENGL #3 C	20/1	12	11	C	12	12	20/1	RECP - ENGL #13 C		540						0.00
	540						0.00	RECP - ENGL #2 A	20/1	12	13	A	14	12	20/1	RECP - BREAK #1		180						0.00
	540						0.00	RECP - ENGL #2 B	20/1	12	15	B	16	12	20/1	RECP - BREAK #2		180						0.00
	720						0.00	RECP - ENGL #2 C	20/1	12	17	C	18	12	20/1	RECP - BREAK #3		1200						0.00
	540						0.00	RECP - ENGL #1 A	20/1	12	19	A	20	12	20/1	RECP - BREAK #4		180						0.00
	540						0.00	RECP - ENGL #1 B	20/1	12	21	B	22	12	20/1	RECP - BREAK #5		720						0.00
	720						0.00	RECP - ENGL #1 C	20/1	12	23	C	24	12	20/1	RECP - FRIDGE(1)		900						0.00
							0.00	RECP - SRO, TECH	20/1	12	25	A	26	12	20/1	RECP - COPY		1200						0.00
							1.00	SPARE	20/1		27	B	28	12	20/2	RECP - COPY SPEC						1664		0.00
							1.00	SPARE	20/1		29	C	30	--	--	--						1664		0.00
							1.00	SPARE	20/1		31	A	32											0.00
	720						0.00	RECP - MECH, ELEC	20/1	12	33	B	34											0.00
	720						0.00	RECP - HALL	20/1	12	35	C	36											0.00
	900						0.00	RECP - MULTI, LOBBY	20/1	10	37	A	38	10	30/3	SPD								0.00
							1.00	SPARE	20/1		39	B	40	-	-	-								0.00
							1.00	SPARE	20/1		41	C	42	-	-	-								0.00
0	9540	0	0	0	0	0	5.00	**TOTALS**								**TOTALS**	0	8520	0	0	0	3328	0	0.00

PANEL: **L1F** — **2** — (Sectio...

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - TEMP CLASS A	20/1	12	43	A	44											0.00
	540						0.00	RECP - TEMP CLASS B	20/1	12	45	B	46											0.00
	360						0.00	RECP - TEMP CLASS C	20/1	12	47	C	48											0.00
	360						0.00	RECP - TEMP CLASS D	20/1	12	49	A	50											0.00
	360						0.00	RECP - TEMP CLASS E	20/1	12	51	B	52											0.00
	360						0.00	RECP - TEMP CLASS F	20/1	12	53	C	54											0.00
	360						0.00	RECP - TEMP CLASS G	20/1	12	55	A	56											0.00
	360						0.00	RECP - TEMP CLASS H	20/1	12	57	B	58											0.00
	360						0.00	RECP - TEMP CLASS I	20/1	12	59	C	60											0.00
	360						0.00	RECP - TEMP CLASS J	20/1	12	61	A	62											0.00
	360						0.00	RECP - TEMP CLASS K	20/1	12	63	B	64											0.00
	360						0.00	RECP - TEMP CLASS L	20/1	12	65	C	66											0.00
							0.00				67	A	68											0.00
							0.00				69	B	70											0.00
							0.00				71	C	72											0.00
							0.00				73	A	74											0.00
							0.00				75	B	76											0.00
					1200		0.00	UV OAHU-C1-01	20/1	12	77	C	78											0.00
					1200		0.00	UV AHU-C1-01	20/1	12	79	A	80	12	20/1	CONTACT C1-01						100		0.00
					1200		0.00	UV AHU-01-01	20/1	12	81	B	82	12	20/1	TRAP PRIMER						180		0.00
		180						VAV-D1-01-01	15/1	12	83	C	84	12	20/1	BAS PANEL								0.00
0	4680	180	0	0	3600	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	460	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	22.7	0.2	0.0	0.0	7.4	0.0	5.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	16.4	0.2	0.0	0.0	7.4	0.0	2.5	Design KVA

Phase Load	
Ph	KVA
A	8.6
B	10.2
C	11.4

Panel Remarks:
(1)GFI GROUND FAULT PROTECTION

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	35.3	98.0		26.4	73.4

PANEL: **L1F**

Date: 1/7/2026 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting **SURFACE** — Main... **MCB (225A)** — Neutral **200%** — Voltage: **208Y/120V-3PH 4W** — Main... **225 AMPS** — Ground **Equipment Ground** — Lugs **FEED THRU**

PANEL: **L1G** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - ENGL #8 A	20/1	12	1	A	2	12	20/1	RECP - ENGL #9 A		540						0.00
	900						0.00	RECP - ENGL #8 B	20/1	12	3	B	4	12	20/1	RECP - ENGL #9 B		900						0.00
	540						0.00	RECP - ENGL #8 C	20/1	12	5	C	6	12	20/1	RECP - ENGL #9 C		540						0.00
	540						0.00	RECP - ENGL #7 A	20/1	12	7	A	8	12	20/1	RECP - ENGL #10 A		540						0.00
	900						0.00	RECP - ENGL #7 B	20/1	12	9	B	10	12	20/1	RECP - ENGL #10 B		900						0.00
	540						0.00	RECP - ENGL #7 C	20/1	12	11	C	12	12	20/1	RECP - ENGL #10 C		540						0.00
	540						0.00	RECP - ENGL #6 A	20/1	12	13	A	14	12	20/1	RECP - ENGL #11 A		540						0.00
	900						0.00	RECP - ENGL #6 B	20/1	12	15	B	16	12	20/1	RECP - ENGL #11 B		900						0.00
	540						0.00	RECP - ENGL #6 C	20/1	12	17	C	18	12	20/1	RECP - ENGL #11 C		540						0.00
	540						0.00	RECP - ENGL #5 A	20/1	12	19	A	20		20/1	SPARE								1.00
	900						0.00	RECP - ENGL #5 B	20/1	12	21	B	22		20/1	SPARE								1.00
	540						0.00	RECP - ENGL #5 C	20/1	12	23	C	24		20/1	SPARE								1.00
							0.00	SPACE			25	A	26		20/1	SPARE								1.00
							0.00	SPACE			27	B	28		20/1	SPARE								1.00
							0.00	SPACE			29	C	30		20/1	SPARE								1.00
	360						0.00	RECP - ELEC, STO	20/1	12	31	A	32											0.00
	180						0.00	RECP - FLEX RM	20/1	12	33	B	34											0.00
	720						0.00	RECP - MULTIPURPOSE	20/1	10	35	C	36	12	20/1	CONTACT C1-01						100		0.00
	540						0.00	RECP - HALL	20/1	12	37	A	38	10	30/3	SPD								0.00
	720						0.00	RECP - WATER FOUN	20/1	12	39	B	40	-	-	-								0.00
	540						0.00	RECP - RESTROOM	20/1	12	41	C	42	-	-	-								0.00
0	10980	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	5940	0	0	0	100	0	6.00

PANEL: **L1G** — **2** — (Sectio...

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							0.00				43	A	44											0.00
							0.00				45	B	46											0.00
							0.00				47	C	48											0.00
							0.00				49	A	50											0.00
							0.00				51	B	52											0.00
							0.00				53	C	54											0.00
							0.00				55	A	56											0.00
							0.00				57	B	58											0.00
							0.00				59	C	60											0.00
							0.00				61	A	62											0.00
							0.00				63	B	64											0.00
							0.00				65	C	66											0.00
							0.00				67	A	68											0.00
							0.00				69	B	70											0.00
							0.00				71	C	72											0.00
							0.00				73	A	74											0.00
							0.00				75	B	76											0.00
							0.00				77	C	78											0.00
							0.00				79	A	80											0.00
											81	B	82											0.00
	180						0.00	VAV-C1-01-01	20/1	12	83	C	84											0.00
0	180	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	17.1	0.0	0.0	0.0	0.1	0.0	6.0	Connected KVA
1.25	**	1.00	1

ELECTRICAL PANEL SCHEDULES
EP-705
FOR BLUEBEAM LABELING/OCR:

0"
1"

Job: GPISD Phase 3b — Job No. 240539 — A/C... 10000

Mounting: SURFACE — Main... MCB (400A) — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 400 AMPS — Ground: Equipment Ground — Lugs: FEED THRU

PANEL: L1H — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	720						0.00	RECP - TRAINERS	20/1	12	1	A	2	12	20/1	RECP - VEND MACH #1(1)						1200		0.00
	540						0.00	RECP - CART STOR	20/1	12	3	B	4	12	20/1	RECP - VEND MACH #2(1)						1200		0.00
	1920						0.00	RECP - CART CHARGE	20/1	12	5	C	6	12	20/1	RECP - VEND MACH #3(1)						1200		0.00
	540						0.00	RECP - CUSTODIAL	20/1	12	7	A	8	12	20/1	RECP - WATER FOUNT #1						1200		0.00
	1080						0.00	RECP - TEAM RM 1519	20/1	12	9	B	10	12	20/1	RECP - WATER FOUNT #2						1200		0.00
	1080						0.00	RECP - TEAM RM 1526	20/1	12	11	C	12	12	20/1	RECP - WATER FOUNT #3						1200		0.00
	1440						0.00	RECP - OFF 1518,1521	20/1	12	13	A	14	12	20/1	RECP - WATER FOUNT #4						1200		0.00
	1440						0.00	RECP - OFF 1522, 1523	20/1	12	15	B	16	12	20/1	RECP - WATER FOUNT #5						1200		0.00
	720						0.00	RECP - OFF 1525	20/1	12	17	C	18	12	20/1	RECP - WATER FOUNT #6						1200		0.00
	720						0.00	RECP - BATH, LAUND	20/1	12	19	A	20	12	20/1	RECP - STOR, ELEC		720						0.00
	1080						0.00	RECP - WEIGHT #1	20/1	12	21	B	22	12	20/1	RECP - ELEV CONV		180						0.00
	1080						0.00	RECP - WEIGHT #2	20/1	12	23	C	24	12	20/1	RECP - SUMP PUMP						720		0.00
	720						0.00	RECP - HALL	20/1	12	25	A	26	12	20/1	RECP - BATHS, JAN 2ND		540						0.00
	540						0.00	RECP - VISTORS FLEX #1	20/1	12	27	B	28	12	20/1	RECP - WATER FOUNT 2ND						1200		0.00
	540						0.00	RECP - VISTORS FLEX #2	20/1	12	29	C	30	12	20/1	RECP - HALL 2ND FLR		540						0.00
	720						0.00	RECP - OFF FLEX	20/1	12	31	A	32	12	20/1	RECP - TEAM LOUNG 2ND #1		720						0.00
	1200						0.00	RECP - SOUND RACK	20/1	12	33	B	34	12	20/1	RECP - TEAM LOUNG 2ND #2		900						0.00
	1200						0.00	RECP - SOUND RACK	20/1	12	35	C	36											0.00
							0.00				37	A	38	10	30/3	SPD								0.00
							0.00				39	B	40	-	-	-								0.00
							0.00				41	C	42	-	-	-								0.00
0	17280	0	0	0	0	0	0.00	TOTALS								TOTALS	0	3600	0	0	0	12720	0	0.00

PANEL: L1H 2 (Sectio... — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	1200						0.00	RECP - OH PROJECT #1	20/1	12	43	A	44	10	20/1	RECP - MECH LVL 1		900						0.00
	1200						0.00	RECP - OH PROJECT #2	20/1	12	45	B	46	12	20/1	CONTACTOR CIA, CIB, CIC						100		0.00
		360					0.00	MOTOR SCREEN #1	20/1	12	47	C	48											0.00
		360					0.00	MOTOR SCREEN #2	20/1	12	49	A	50											0.00
							0.00				51	B	52											0.00
							0.00				53	C	54											0.00
							0.00				55	A	56											0.00
							0.00				57	B	58											0.00
							0.00				59	C	60											0.00
							0.00				61	A	62	12	20/1	UV OAHU-B1-01						1200		0.00
							0.00				63	B	64	12	20/1	UV OAHU-B3-01						1200		0.00
							0.00				65	C	66	12	20/1	UV AHU-B1-01						1200		0.00
							0.00				67	A	68	12	20/1	UV AHU-B1-02						1200		0.00
							0.00				69	B	70	12	20/1	UV AHU-B2-01						1200		0.00
		180					0.00	ELEV LIGHTS			71	C	72	12	20/1	UV AHU-B3-01						1200		0.00
		180					0.00	ELEV LIGHTS			73	A	74	12	20/1	UV AHU-B3-02						1200		0.00
					180		0.00	BAS PANEL LVL 3	20/1	12	75	B	76	12	20/1	TRAP PRIMER LVL 3						180		0.00
		120					0.00	VAV-B1-02-01	20/1	12	77	C	78	12	20/1	EF-B1-01			696					0.00
0	0	0	0	0	6656	0	0.00	PANEL L1J	100/3	SEE	79	A	80	SEE	125/3	PANEL L1K	0	4220	33	0	0	8096	0	0.00
0	0	0	0	0	6656	0	0.00	--	--	RISER	81	B	82	RISER	--	--	0	4220	33	0	0	8096	0	0.00
0	0	0	0	0	6656	0	0.00	--	--		83	C	84		--	--	0	4220	33	0	0	8096	0	0.00
0	2400	1120	0	0	20148	0	0.00	TOTALS								TOTALS	0	13560	796	0	0	32968	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	36.8	1.9	0.0	0.0	65.8	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	23.4	1.9	0.0	0.0	65.8	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	35.6
B	34.8
C	34.2

Panel Remarks: (1)GFI GROUND FAULT PROTECTION

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	104.6	290.3		91.2	253.1

PANEL: L1H

Date: 1/7/2026 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — A/C... 10000

Mounting: SURFACE — Main... MCB (225A) — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 225 AMPS — Ground: Equipment Ground — Lugs: FEED THRU

PANEL: L1I — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
		1000					0.00	BACKBOARD MOTOR #1	20/1	12	1	A	2	12	20/1	RECP - LOB, BATH, STO		900						0.00
		1000					0.00	BACKBOARD MOTOR #2	20/1	12	3	B	4	12	20/1	RECP - TICKET BOOTH		720						0.00
		1000					0.00	BACKBOARD MOTOR #3	20/1	12	5	C	6	12	20/1	RECP - CONCESSION		720						0.00
		1000					0.00	BACKBOARD MOTOR #4	20/1	12	7	A	8	12	20/1	RECP - FRIDGE(1)		720						0.00
		1000					0.00	BACKBOARD MOTOR #5	20/1	12	9	B	10	12	20/1	RECP - MICROWAVE		1200						0.00
		1000					0.00	BACKBOARD MOTOR #6	20/1	12	11	C	12	12	20/1	RECP - CONC COUNT		180						0.00
							1.00	SPARE	20/1		13	A	14	12	20/1	RECP - MECH CONV		720						0.00
							1.00	SPARE	20/1		15	B	16	12	20/1	RECP - WATER FOUNT		700						0.00
							0.00	GAME CAMERA #1	20/1	12	17	C	18	12	20/1	RECP - ROOF		180						0.00
							1000	0.00	GAME CAMERA #2	20/1	12	19	A	20		SPARE								1.00
							1000	0.00	SCOREBOARD #1	20/1	12	21	B	22	12	20/1	RECP - CONV LOB, BATH		720						0.00
							1000	0.00	SCOREBOARD #2	20/1	12	23	C	24	12	20/1	LASER PROJECTOR #1		1200						0.00
	180							0.00	RECP - BLEACHER #1	20/1	12	25	A	26	12	20/1	LASER PROJECTOR #2		1200						0.00
	180							0.00	RECP - BLEACHER #2	20/1	12	27	B	28	12	20/1	LASER PROJECTOR #3		1200						0.00
	540							0.00	RECP - CONV NORTH	20/1	12	29	C	30	12	20/1	LASER PROJECTOR #4		1200						0.00
	540							0.00	RECP - CONV EAST	20/1	12	31	A	32	12	20/1	SCROLLING DISPLAY #1		1500						0.00
	540							0.00	RECP - CONV SOUTH	20/1	12	33	B	34	12	20/1	SCROLLING DISPLAY #2		1500						0.00
	540							0.00	RECP - CONV WEST	20/1	12	35	C	36											0.00
								0.00				37	A	38	10	30/3	SPD								0.00
								0.00				39	B	40	-	-	-								0.00
								0.00				41	C	42	-	-	-								0.00
0	2520	6000	0	0	4000	0	2.00	TOTALS								TOTALS	0	14560	0	0	0	0	0	1.00

PANEL: L1I 2 (Sectio... — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	180						0.00	RECP - LCD TV #1	20/1	12	43	A	44	12	20/1	CONTACTOR CIA, CIB, CIC						100		0.00
	180						0.00	RECP - LCD TV #2	20/1	12	45	B	46	12	20/1	MECH SHADES #1						600		0.00
	180						0.00	RECP - LCD TV #3	20/1	12	47	C	48	12	20/1	MECH SHADES #2						600		0.00
		288					0.00	BLEACHER #1	15/3	12	49	A	50	12	15/3	BLEACHER #2				288				0.00
		288					0.00	--	--	--	51	B	52	--	--	--				288				0.00
		288					0.00	--	--	--	53	C	54							288				0.00
							0.00				55	A	56	12	20/1	MECH SHADES #3						600		0.00
							0.00				57	B	58	12	20/1	MECH SHADES #4						600		0.00
							0.00				59	C	60											0.00
							0.00				61	A	62											0.00
							0.00				63	B	64											0.00
							0.00				65	C	66											0.00
							0.00				67	A	68											0.00
							0.00				69	B	70											0.00
							0.00				71	C	72	12	20/1	UV OAHU-A2-01						1200		0.00
							0.00				73	A	74	12	20/1	UV AHU-A2-01						1200		0.00
							0.00				75	B	76	12	20/1	UV AHU-A2-02						1200		0.00
		100					0.00	CP-2A	15/1	12	77	C	78	12	20/1	UV AHU-A2-03						1200		0.00
							540	0.00	TRAP PRIMERS	20/1	12	79	A	80	12	20/1	BAS PANEL						180		0.00
				2357				0.00	ACCU-ELECT/IDF-1503	50/3	6	81	B	82	12	20/1	EF-A1-01				667				0.00
				2357				0.00	--	--	--	83	C	84	12	20/1	EF-A1-02				667				0.00
0	540	964	0	4715	540	0	0.00	TOTALS								TOTALS	0	0	2198	0	0	7480	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	17.6	9.2	0.0	4.7	12.0	0.0	3.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	13.8	9.2	0.0	4.7	12.0	0.0	1.5	Design KVA

Phase Load

Ph.	KVA
A	12.1
B	15.9
C	15.4

Panel Remarks: (1)GFI GROUND FAULT PROTECTION

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	46.5	129.1		41.2	114.4

PANEL: L1I

Date: 1/8/2026 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — A/C... 10000

Mounting: SURFACE — Main... MLO — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 100 AMPS — Ground: Equipment Ground — Lugs: SINGLE

PANEL: L1J — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
					1664		0.00	WASHER #1	20/2	12	1	A	2	12	20/2	DRYER #1								0.00
					1664		0.00	--	--		3	B	4		--	--								0.00
					1664		0.00	WASHER #2	20/2	12	5	C	6	12	20/2	DRYER #2								0.00
					1664		0.00	--	--		7	A	8		--	--								0.00
					1664		0.00	WASHER #3	20/2	12	9	B	10	12	20/2	DRYER #3								0.00
					1664		0.00	--	--		11	C	12		--	--								0.00
											13	A	14											0.00
											15	B	16											0.00
											17	C	18											0.00
											19	A	20											0.00
											21	B	22											0.00
											23	C	24											0.00
											25	A	26											0.00
											27	B	28											0.00
											29	C	30											0.00
0	0	0	0	0	9984	0	0.00	TOTALS								TOTALS	0	0	0	0	0	9984	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	6.7
B	6.7
C	6.7

Panel Remarks: (1)GFI GROUND FAULT PROTECTION

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	20.0	55.4		20.0	55.4

PANEL: L1J

Date: 1/7/2026 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — A/C... 10000

Mounting: SURFACE — Main... MLO — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 225 AMPS — Ground: Equipment Ground — Lugs: SINGLE

PANEL: L1K — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	1080							RECP - BOYS, PUMP	20/1	12	1	A	2	12	20/1	RECP - BOYS HALL		720						0
	1260							RECP - BOYS, STO, MECH	20/1	12	3	B	4	12	20/1	RECP - BOYS COACH		1080						0
	900							RECP - BOY COACH, RR	20/1	12	5	C	6	12	20/1	RECP - BOYS PRINTER		1200						0
	1080							RECP - GIRLS COACH	20/1	12	7	A	8	12	20/1	RECP - GIRL COACH, RR		900						0
	1200							RECP - GIRLS PRINTER	20/1	12	9	B	10	12	20/1	RECP - GIRL, STOR		1080						0
	720							RECP - GIRLS HALL	20/1	12	11	C	12	12	20/1	RECP - GIRL, STOR, RR		1440						0
											13	A	14											0.00
											15	B	16											0.00
											17	C	18											0.00
											19	A	20											0.00
											21	B	22											0.00
							1200		UV OA-B1-02	20/1	12	23	C	24											0.00
							1200		UV AHU-B1-03	20/1	12	25	A	26	12	15/1	CP-1B			100					0.00
							1200		UV AHU-B1-04	20/1	12	27	B	28	12	20/1	TRAP PRIMER								0.00
							360		BAS PANEL	20/1	12	29	C	30	12	20/1	GWH-1,2						360		0.00
							1664		WASHER #1	20/2	12	31	A	32	12	20/2	DRYER #1						1664		0.00
							1664		--			33	B	34			--						1664		0.00
							1664		WASHER #2	20/2	12	35	C	36	12	20/2	DRYER #2						1664		0.00
							1664		--	--		37	A	38			--						1664		0.00
							1664		WASHER #3	20/2	12	39	B	40	12	20/2	DRYER #3						1664		0.00
							1664		--	--		41	C	42			--						1664		0.00
0	6240	0	0	0	13944	0	0.00	TOTALS								TOTALS	0	6420	100	0	0	10344	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	12.7	0.1	0.0	0.0	24.3	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	11.3	0.1	0.0	0.0	24.3	0.0	0.0	Design KVA

Phase Load

Ph.	KVA
A	11.7
B	12.5
C	12.8

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	37.0	102.8		35.7	99.1

PANEL: L1K

Date: 1/7/2026 — By: Designer

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-366-0808

LEAF ENGINEERS

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT: Galena Park ISD
DATE: December 5, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL PANEL SCHEDULES

EP-705

Plot Stamp:
1/8/2026 4:09:49 PM

ELECTRICAL PANEL SCHEDULES
EP-706
FOR BLUEBEAM LABELING/OCR:

0"
1"

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting SURFACE — Main... MCB (225A) — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 225 AMPS — Ground Equipment Ground — Lugs FEED THRU

PANEL: L1L — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
		2880					0.00	B-01	30/3	10	1	A	2	12	15/3	PHWP-01			408					0.00
		2880					0.00	--	--		3	B	4		--	--			408					0.00
		2880					0.00	--	--		5	C	6		--	--			408					0.00
		2880					0.00	B-02	30/3	10	7	A	8	12	15/3	PHWP-02			408					0.00
		2880					0.00	--	--		9	B	10		--	--			408					0.00
		2880					0.00	--	--		11	C	12		--	--			408					0.00
		2880					0.00	B-03	30/3	10	13	A	14	12	15/3	PHWP-03			408					0.00
		2880					0.00	--	--		15	B	16		--	--			408					0.00
		2880					0.00	--	--		17	C	18		--	--			408					0.00
		2880					0.00	B-03	30/3	10	19	A	20	12	15/3	PHWP-04			408					0.00
		2880					0.00	--	--		21	B	22		--	--			408					0.00
		2880					0.00	--	--		23	C	24		--	--			408					0.00
							0.00				25	A	26											0.00
							0.00				27	B	28											0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
							0.00				37	A	38	10	30/3	SPD								0.00
							0.00				39	B	40	-	-	-								0.00
							0.00				41	C	42	-	-	-								0.00
0	0	34560	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	0	4896	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	39.5	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.0	39.5	0.0	0.0	0.0	0.0	0.0	Design KVA

*Input di...
**100% ...

Phase Load	
Ph	KVA
A	13.2
B	13.2
C	13.2

Panel Remarks:

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	39.5	109.5		39.5	109.5

PANEL: L1L

Date: 1/7/2026 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting SURFACE — Main... MCB (50A) — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 100 AMPS — Ground Equipment Ground — Lugs SINGLE

PANEL: SL4B — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
			720				0.00	DF-1S A	20/1	8	1	A	2											0.00
			720				0.00	DF-1S B	20/1	8	3	B	4											0.00
			720				0.00	DF-1S C	20/1	8	5	C	6											0.00
			720				0.00	DF-1S D	20/1	8	7	A	8											0.00
			480				0.00	DF-1S E	20/1	8	9	B	10											0.00
			480				0.00	DF-1S F	20/1	8	11	C	12											0.00
							0.00				13	A	14											0.00
							0.00				15	B	16											0.00
							0.00				17	C	18											0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26	10	30/3	SPD								0.00
							0.00				27	B	28	-	-	-								0.00
							0.00				29	C	30	-	-	-								0.00
0	0	3840	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	Design KVA

*Input di...
**100% ...

Phase Load	
Ph	KVA
A	1.4
B	1.2
C	1.2

Panel Remarks:

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	3.8	10.7		3.8	10.7

PANEL: SL4B

Date: 1/7/2026 — By: Designer

1

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting SURFACE — Main... MCB (225A) — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 225 AMPS — Ground Equipment Ground — Lugs FEED THRU

PANEL: L2D — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - MATH #1 A	20/1	12	1	A	2	12	20/1	RECP - MATH #2 A		540						0.00
	720						0.00	RECP - MATH #1 B	20/1	12	3	B	4	12	20/1	RECP - MATH #2 B		720						0.00
	540						0.00	RECP - MATH #1 C	20/1	12	5	C	6	12	20/1	RECP - MATH #2 C		540						0.00
	540						0.00	RECP - MATH #3 A	20/1	12	7	A	8	12	20/1	RECP - MATH #4 A		540						0.00
	720						0.00	RECP - MATH #3 B	20/1	12	9	B	10	12	20/1	RECP - MATH #4 B		720						0.00
	540						0.00	RECP - MATH #3 C	20/1	12	11	C	12	12	20/1	RECP - MATH #4 C		540						0.00
	540						0.00	RECP - MATH #5 A	20/1	12	13	A	14		20/1	RECP - COLLAB A		360						0.00
	720						0.00	RECP - MATH #5 B	20/1	12	15	B	16		20/1	RECP - COLLAB B		360						0.00
	540						0.00	RECP - MATH #5 C	20/1	12	17	C	18		20/1	RECP - BALCONY		360						0.00
	540						0.00	RECP - MATH #6 A	20/1	12	19	A	20		20/1	RECP - SPEC, STOR								0.00
	720						0.00	RECP - MATH #6 B	20/1	12	21	B	22		20/1	SPARE								1.00
	540						0.00	RECP - MATH #6 C	20/1	12	23	C	24		20/1	SPARE								1.00
							0.00				25	A	26		20/1	SPARE								1.00
							0.00				27	B	28		20/1	SPARE								1.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
	540						0.00	RECP - ELEC, BRIDGE	20/1	12	35	C	36											0.00
	540						0.00	RECP - HALL	20/1	12	37	A	38	10	30/3	SPD								0.00
	540						0.00	RECP - RESTROOMS	20/1	12	39	B	40	-	-	-								0.00
					1200		0.00	RECP - WATER FOUNT	20/1	12	41	C	42	-	-	-								0.00
0	8820	0	0	0	1200	0	0.00	**TOTALS**								**TOTALS**	0	4680	0	0	0	0	0	4.00

PANEL: L2D 2 (Sectio...

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
					1920		0.00	MULTI DISPLAY A	20/1	12	43	A	44											0.00
					1920		0.00	MULTI DISPLAY B	20/1	12	45	B	46											0.00
							0.00				47	C	48											0.00
							0.00				49	A	50											0.00
							0.00				51	B	52											0.00
							0.00				53	C	54											0.00
							0.00				55	A	56											0.00
							0.00				57	B	58											0.00
							0.00				59	C	60											0.00
							0.00				61	A	62											0.00
							0.00				63	B	64											0.00
							0.00				65	C	66											0.00
							0.00				67	A	68											0.00
							0.00				69	B	70											0.00
							0.00				71	C	72											0.00
							0.00				73	A	74											0.00
							0.00				75	B	76											0.00
							0.00				77	C	78											0.00
							0.00				79	A	80											0.00
							0.00				81	B	82											0.00
		180					0.00	VAV-E2-01-01	15/1	12	83	C	84											0.00
0	0	0	0	0	4020	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	13.5	0.0	0.0	0.0	5.2	0.0	4.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	11.8	0.0	0.0	0.0	5.2	0.0	2.0	Design KVA

*Input di...
**100% ...

Phase Load	
Ph	KVA
A	6.1
B	7.1
C	5.5

Panel Remarks:

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	22.7	63.1		19.0	52.7

PANEL: L2D

Date: 1/7/2026 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting SURFACE — Main... MCB (225A) — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 225 AMPS — Ground Equipment Ground — Lugs FEED THRU

PANEL: L2E — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - MATH #6 A	20/1	12	1	A	2	20/1	12	RECP - MATH #8 A		540						0.00
	720						0.00	RECP - MATH #6 B	20/1	12	3	B	4	20/1	12	RECP - MATH #8 B		720						0.00
	540						0.00	RECP - MATH #6 C	20/1	12	5	C	6	20/1	12	RECP - MATH #8 C		540						0.00
	540						0.00	RECP - MATH #3 A	20/1	12	7	A	8	20/1	12	RECP - MATH #10 A		540						0.00
	720						0.00	RECP - MATH #3 B	20/1	12	9	B	10	20/1	12	RECP - MATH #10 B		720						0.00
	540						0.00	RECP - MATH #3 C	20/1	12	11	C	12	20/1	12	RECP - MATH #10 C		540						0.00
	720						0.00	RECP - COMP LAB A	20/1	12	13	A	14	20/1	12	RECP - MATH #11 A		540						0.00
	720						0.00	RECP - COMP LAB B	20/1	12	15	B	16	20/1	12	RECP - MATH #11 B		720						0.00
	720						0.00	RECP - COMP LAB C	20/1	12	17	C	18	20/1	12	RECP - MATH #11 C		540						0.00
	720						0.00	RECP - COMP LAB D	20/1	12	19	A	20	20/1	12	RECP - MATH #12 A		540						0.00
	720						0.00	RECP - COMP LAB E	20/1	12	21	B	22	20/1	12	RECP - MATH #12 B		720						0.00
	720						0.00	RECP - COMP LAB F	20/1	12	23	C	24	20/1	12	RECP - MATH #12 C		540						0.00
	720						0.00	RECP - COMP LAB G	20/1	12	25	A	26	20/1		SPARE								1.00
	720						0.00	RECP - COMP LAB H	20/1	12	27	B	28	20/1		SPARE								1.00
	360						0.00	RECP - COMP LAB I	20/1	12	29	C	30	20/1		SPARE								1.00
							0.00				31	A	32	20/1		SPARE								1.00
							0.00				33	B	34	20/1		SPARE								1.00
							0.00				35	C	36	20/1		SPARE								1.00
							0.00	RECP - MECH, HALL	20/1	12	37	A	38	10	30/3	SPD								0.00
	1260						0.00	RECP - HALL, BATHS	20/1	12	39	B	40	-	-	-								0.00
	720						0.00	RECP - MECH, BALC	20/1	12	41	C	42	-	-	-								0.00
0	11700	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	7200	0	0	0	0	0	6.00

PANEL: L2E 2 (Sectio...

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	180						0.00	RECP - WORKPLC A	20/1	12	43	A	44	20/1	12	MULTI DISPLAY A						1920		0.00
	180						0.00	RECP - WORKPLC B	20/1	12	45	B	46	20/1	12	MULTI DISPLAY B						1920		0.00
	1200						0.00	RECP - WORKPLC C	20/1	12	47	C	48	20/1	12	MULTI DISPLAY C						1920		0.00
	180						0.00	RECP - WORKPLC D	20/1	12	49	A	50											0.00
	180						0.00	RECP - WORKPLC E	20/1	12	51	B	52											0.00
	180						0.00	RECP - WORKPLC F	20/1	12	53	C	54											0.00
	720						0.00	RECP - WORKPLC G	20/1	12	55	A	56											0.00
				720			0.00	RECP - FRIDGE(1)	20/1	12	57	B	58											0.00
				1200			0.00	RECP - COPIER	20/1	12	59	C	60											0.00
				1200			0.00	RECP - COPIER(1)	20/2	12	61	A	62											0.00
				1200			0.00	--	--		63	B	64											0.00
							0.00				65	C	66											0.00
							0.00				67	A	68											0.00
							0.00				69	B	70											0.00
							0.00				71	C	72	12	20/1	UV AHU-E2-01						1200		0.00
							0.00				73	A	74	12	20/1	UV AHU-F2-01						1200		0.00
							0.00				75	B	76	12	20/1	UV OAHU-E2-01						1200		0.00
		326					0.00	AHU - OA UNIT-02	30/4	10	77	C	78	12	20/1	UV AHU-F2-02						1200		0.00
		700					0.00	SF-2P	15/1	12	79	A	80	12	20/1	UV AHU-F2-03						1200		0.00
				180			0.00	BAS PANEL	20/1	12	81	B	82	12	20/1	UV OAHU-F2-01						1200		0.00
		180					0.00	VAV-F2-01-01	15/1	12	83	C	84	12	20/1	TRAP PRIMERS						360		0.00
0	2820	380	0	0	4500	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	13320	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	21.7	0.4	0.0	0.0	17.8	0.0	6.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	15.9	0.4	0.0	0.0	17.8	0.0	3.0	Design KVA

*Input di...
**100% ...

Phase Load	
Ph	KVA
A	12.1
B	14.5
C	13.3

Panel Remarks:
(1)GFI GROUND FAULT PROTECTION

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	45.9	127.5		37.1	102.9

PANEL: L2E

Date: 1/7/2026 — By: Designer

3

Plot Stamp:
1/7/2026 7:46:03 PM

PBK

LEAF ENGINEERS

www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-965-0608

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED PROFESSIONAL ENGINEER
NATIONAL

December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT
Galena Park ISD
DATE: December 5, 2025 — PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL PANEL SCHEDULES

EP-706

ELECTRICAL PANEL SCHEDULES
EP-707
FOR BLUEBEAM LABELING/OCR:

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting SURFACE — Main... MCB (225A) — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 225 AMPS — Ground Equipment Ground — Lugs FEED THRU

PANEL: L2F — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - SOC STUD #3 A	20/1	12	1	A	2	20/1	12	RECP - SOC STUD #3 A		540						0.00
	720						0.00	RECP - SOC STUD #3 B	20/1	12	3	B	4	20/1	12	RECP - SOC STUD #3 B		720						0.00
	540						0.00	RECP - SOC STUD #3 C	20/1	12	5	C	6	20/1	12	RECP - SOC STUD #3 C		540						0.00
	540						0.00	RECP - SOC STUD #2 A	20/1	12	7	A	8	20/1	12	RECP - SOC STUD #2 A		540						0.00
	720						0.00	RECP - SOC STUD #2 B	20/1	12	9	B	10	20/1	12	RECP - SOC STUD #2 B		720						0.00
	540						0.00	RECP - SOC STUD #2 C	20/1	12	11	C	12	20/1	12	RECP - SOC STUD #2 C		540						0.00
	540						0.00	RECP - SOC STUD #1 A	20/1	12	13	A	14	20/1	12	RECP - SOC STUD #8 A		540						0.00
	720						0.00	RECP - SOC STUD #1 B	20/1	12	15	B	16	20/1	12	RECP - SOC STUD #8 B		720						0.00
	540						0.00	RECP - SOC STUD #1 C	20/1	12	17	C	18	20/1	12	RECP - SOC STUD #8 C		540						0.00
	540						0.00	RECP - SOC STUD #11 A	20/1	12	19	A	20	20/1	12	RECP - SOC STUD #9 A		540						0.00
	720						0.00	RECP - SOC STUD #11 B	20/1	12	21	B	22	20/1	12	RECP - SOC STUD #9 B		720						0.00
	540						0.00	RECP - SOC STUD #11 C	20/1	12	23	C	24	20/1	12	RECP - SOC STUD #9 C		540						0.00
	720						0.00	RECP - MECH. ELEC	20/1	12	25	A	26	20/1		SPARE								1.00
	1080						0.00	RECP - HALL	20/1	12	27	B	28	20/1		SPARE								1.00
	1440						0.00	RECP - AP OFF. SRO	20/1	12	29	C	30	20/1		SPARE								1.00
							0.00	RECP - AP SUITE A			31	A	32	20/1		SPARE								1.00
							0.00	RECP - AP SUITE B			33	B	34	20/1		SPARE								1.00
							0.00				35	C	36	20/1		SPARE								1.00
							0.00				37	A	38	10	30/3	SPD								0.00
							0.00				39	B	40	-	-	-								0.00
							0.00				41	C	42	-	-	-								0.00
0	10440	0	0	0	0	0	0.00	TOTALS								TOTALS	0	7200	0	0	0	0	0	6.00

PANEL: L2F 2 (Sectio... — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
					1920		0.00	MULTI DISPLAY A	20/1	12	43	A	44											0.00
					1920		0.00	MULTI DISPLAY B	20/1	12	45	B	46											0.00
					1920		0.00	MULTI DISPLAY C	20/1	12	47	C	48											0.00
							0.00				49	A	50											0.00
							0.00				51	B	52											0.00
							0.00				53	C	54											0.00
							0.00				55	A	56											0.00
							0.00				57	B	58											0.00
							0.00				59	C	60											0.00
							0.00				61	A	62											0.00
							0.00				63	B	64											0.00
							0.00				65	C	66											0.00
							0.00				67	A	68											0.00
							0.00				69	B	70											0.00
							0.00				71	C	72											0.00
							0.00				73	A	74											0.00
							0.00				75	B	76											0.00
3	1	100	0	0	0	0	0.00	CONTACT CCT	20/1	12	77	C	78	12	20/1	UV OAHU-C3-01						1200		0.00
	1	100	0	0	0	0	0.00	CONTACT CCT	20/1	12	79	A	80	12	20/1	UV AHU-C3-01						1200		0.00
		160			160		0.00	BAS PANEL	20/1	12	81	B	82	12	20/1	UV AHU-D3-01						1200		0.00
		180					0.00	VAV-D2-01-01	20/1	12	83	C	84	20/1	12	TRAP PRIMER						180		0.00
0	0	460	0	0	5940	0	0.00	TOTALS								TOTALS	0	0	0	0	0	3780	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	17.6	0.5	0.0	0.0	9.7	0.0	6.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	13.8	0.5	0.0	0.0	9.7	0.0	3.0	Design KVA

*Input di...
**100% ...

Phase Load	
Ph	KVA
A	8.3
B	10.3
C	9.2

Panel Remarks:

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	33.8	93.9		27.0	74.9

PANEL: L2F

Date: 1/7/2026 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting SURFACE — Main... MCB (225A) — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 225 AMPS — Ground Equipment Ground — Lugs FEED THRU

PANEL: L2G — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - SOC STUD #7 A	20/1	12	1	A	2	12	20/1	RECP - SOC STUD #6 A		540						0.00
	900						0.00	RECP - SOC STUD #7 B	20/1	12	3	B	4	12	20/1	RECP - SOC STUD #6 B		900						0.00
	540						0.00	RECP - SOC STUD #7 C	20/1	12	5	C	6	12	20/1	RECP - SOC STUD #6 C		540						0.00
	540						0.00	RECP - SOC STUD #6 A	20/1	12	7	A	8	12	20/1	RECP - SOC STUD #9 A		540						0.00
	900						0.00	RECP - SOC STUD #6 B	20/1	12	9	B	10	12	20/1	RECP - SOC STUD #9 B		900						0.00
	540						0.00	RECP - SOC STUD #6 C	20/1	12	11	C	12	12	20/1	RECP - SOC STUD #9 C		540						0.00
	540						0.00	RECP - SOC STUD #5 A	20/1	12	13	A	14	12	20/1	RECP - RESTROOMS		540						0.00
	900						0.00	RECP - SOC STUD #5 B	20/1	12	15	B	16	12	20/1	RECP - WATER FOUNT		720						0.00
	540						0.00	RECP - SOC STUD #5 C	20/1	12	17	C	18	12	20/1	RECP - HALL, STOR		720						0.00
	540						0.00	RECP - SOC STUD #4 A	20/1	12	19	A	20	12	20/1	RECP - BRIDGE, ELEC		540						0.00
	900						0.00	RECP - SOC STUD #4 B	20/1	12	21	B	22	12	20/1	RECP - COLLAB A		360						0.00
	540						0.00	RECP - SOC STUD #4 C	20/1	12	23	C	24	12	20/1	RECP - COLLAB B		360						0.00
							0.00	RECP - SPECIALIST	20/1	12	25	A	26	12	20/1	RECP - BALCONY		360						0.00
							0.00				27	B	28											0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
							0.00				37	A	38	10	30/3	SPD								0.00
							0.00				39	B	40	-	-	-								0.00
							0.00				41	C	42	-	-	-								0.00
0	7920	0	0	0	0	0	0.00	TOTALS								TOTALS	0	7560	0	0	0	0	0	0.00

PANEL: L2G 2 (Sectio... — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
					1920		0.00	MULTI DISPLAY A	20/1	12	43	A	44											0.00
					1920		0.00	MULTI DISPLAY B	20/1	12	45	B	46											0.00
							0.00				47	C	48											0.00
							0.00				49	A	50											0.00
							0.00				51	B	52											0.00
							0.00				53	C	54											0.00
							0.00				55	A	56											0.00
							0.00				57	B	58											0.00
							0.00				59	C	60											0.00
							0.00				61	A	62											0.00
							0.00				63	B	64											0.00
							0.00				65	C	66											0.00
							0.00				67	A	68											0.00
							0.00				69	B	70											0.00
							0.00				71	C	72											0.00
							0.00				73	A	74											0.00
							0.00				75	B	76											0.00
							0.00				77	C	78											0.00
							0.00				79	A	80											0.00
							0.00				81	B	82											0.00
		180					0.00	VAV-C2-01-01	15/1	12	83	C	84											0.00
0	0	180	0	0	3840	0	0.00	TOTALS								TOTALS	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	15.5	0.2	0.0	0.0	3.8	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	12.7	0.2	0.0	0.0	3.8	0.0	0.0	Design KVA

*Input di...
**100% ...

Phase Load	
Ph	KVA
A	6.6
B	8.4
C	4.5

Panel Remarks:

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	19.5	54.1		16.8	46.5

PANEL: L2G

Date: 1/7/2026 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting SURFACE — Main... MCB (100A) — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 100 AMPS — Ground Equipment Ground — Lugs FEED THRU

PANEL: L2H — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
		1000					0.00	BACKBOARD MOTOR #1A	20/1	12	1	A	2	12	20/1	BACKBOARD MOTOR #1B			1000					0.00
		1000					0.00	BACKBOARD MOTOR #2A	20/1	12	3	B	4	12	20/1	BACKBOARD MOTOR #2B			1000					0.00
		1000					0.00	BACKBOARD MOTOR #3A	20/1	12	5	C	6	12	20/1	BACKBOARD MOTOR #3B			1000					0.00
		1000					0.00	BACKBOARD MOTOR #4A	20/1	12	7	A	8	12	20/1	BACKBOARD MOTOR #4B			1000					0.00
		1000					0.00	BACKBOARD MOTOR #5A	20/1	12	9	B	10	12	20/1	BACKBOARD MOTOR #5B			1000					0.00
		1000					0.00	BACKBOARD MOTOR #6A	20/1	12	11	C	12	12	20/1	BACKBOARD MOTOR #6B			1000					0.00
							1.00	SPARE	20/1		13	A	14	12	20/1	RECP - CONV NORTH B		540						0.00
					1000		0.00	SCOREBOARD #1A	20/1	12	15	B	16	12	20/1	RECP - CONV EAST B		540						0.00
					1000		0.00	SCOREBOARD #2A	20/1	12	17	C	18	12	20/1	RECP - CONV SOUTH B		540						0.00
	180						0.00	RECP - BLEACHER #1A	20/1	12	19	A	20	12	20/1	RECP - CONV WEST B		540						0.00
	540						0.00	RECP - CONV NORTH A	20/1	12	21	B	22	12	20/1	RECP - MECH.		540						0.00
	540						0.00	RECP - CONV EAST A	20/1	12	23	C	24	12	20/1	RECP - MECH. STOR		1080						0.00
	540						0.00	RECP - CONV SOUTH A	20/1	12	25	A	26	12	20/1	RECP - CORRIDOR		540						0.00
	540						0.00	RECP - CONV WEST A	20/1	12	27	B	28	10	20/1	RECP - ROOF		540						0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
2		288					0.00	MOTORIZED BLEACHER	15/3	12	37	A	38	10	30/3	SPD								0.00
		288					0.00	--	--	--	39	B	40	-	-	-								0.00
		288					0.00	--	--	--	41	C	42	-	-	-								0.00
0	2340	6864	0	0	2000	0	1.00	TOTALS								TOTALS	0	4860	6000	0	0	0	0	0.00

PANEL: L2H 2 (Sectio... — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							0.00				43	A	44											0.00
							0.00				45	B	46											0.00
							0.00				47	C	48											0.00
							0.00				49	A	50											0.00
							0.00				51	B	52											0.00
							0.00				53	C	54											0.00
							0.00				55	A	56											0.00
							0.00				57	B	58											0.00
							0.00				59	C	60											0.00
							0.00				61	A	62	12	20/1	UV OAHU-B1-03						1200		0.00
				360			0.00	TRAP PRIMERS	20/1	12	63	B	64	12	20/1	UV AHU-B3-03						1200		0.00
				300			0.00	BAS	20/1	12	65	C	66	12	20/1	UV AHU-B3-04						1200		0.00
				667			0.00	EF-B2-01	20/1	12	67	A	68	12	20/1	UV OAHU-B3-02						1200		0.00
				1144			0.00	ACCU-IDF-1545	25/2	10	69	B	70	10	25/2	ACCU-PUMP ROOM					1664			0.00
				1144			0.00	--	--	--	71	C	72	--	--	--					1664			0.00
				1144			0.00	ACCU-IDF-2510.2	25/2	10	73	A	74	10	25/2	ACCU-ELECT-2512.1					1144			0.00
				1144			0.00	--	--	--	75	B	76	--	--	--					1144			0.00
				1144			0.00	ACCU IDF-15421.1	25/2	10	77	C	78	6	40/2	ACCU-STAIRS-B1					2600			0.00
				1144			0.00	--	--	--	79	A	80	--	--	--					2600			0.00
											81	B	82											0.00
											83	C	84											0.00
0	0	0	0	8191	0	0	0.00	BAS								TOTALS	0	0	0	0	10816	4800	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	7.2	12.9	0.0	19.0	6.8	0.0	1.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	7.2	12.9	0.0	19.0	6.8	0.0	0.5	Design KVA

*Input di...
**100% ...

Phase Load	
Ph	KVA
A	15.7
B	14.6
C	15.5

Panel Remarks:

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	46.9	130.1		46.4	128.7

PANEL: L2H

Date: 1/7/2026 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting SURFACE — Main... MCB (225A) — Neutral 200% — Voltage: 208Y/120V-3PH 4W — Main... 225 AMPS — Ground Equipment Ground — Lugs FEED THRU

PANEL: L3A — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - BIO 3104 A	20/1	12	1	A	2	12	20/1	RECP - FORE 3102 A		360						0.00
	720						0.00	RECP - BIO 3104 B	20/1	12	3	B	4	12	20/1	RECP - FORE 3102 B		720						0.00
	540						0.00	RECP - BIO 3104 C	20/1	12	5	C	6	12	20/1	RECP - FORE 3102 C		540						0.00
	540						0.00	RECP - BIO 3104 D	20/1	12	7	A	8	12	20/1	RECP - FORE 3102 D		540						0.00
	540						0.00	RECP - BIO 3104 E	20/1	12	9	B	10	12	20/1	RECP - FORE 3102 E		540						0.00
	540						0.00	RECP - BIO 3104 F	20/1	12	11	C	12	12	20/1	RECP - FORE 3102 F		540						0.00
	540						0.00	RECP - BIO 3104 G	20/1	12	13	A	14	12	20/1	RECP - FORE 3102 G		540						0.00
	540						0.00	RECP - BIO 3104 H	20/1	12	15	B	16	12	20/1	RECP - FORE 3102 H		540						0.00
	360						0.00	RECP - PREP 3104.1 A	20/1	12	17	C	18	12	20/1	RECP - PREP 3102.1 A		360						0.00
	180						0.00	RECP - PREP 3104.1 B	20/1	12	19	A	20	12	20/1	RECP - PREP 3102.1 B		180						0.00
	180						0.00	RECP - PREP 3104.1 C	20/1	12	21	B	22	12	20/1	RECP - PREP 3102.1 C		180						0.00
	180						0.00	RECP - PREP 3104.1 D	20/1	12	23	C	24	12	20/1	RECP - PREP 3102.1 D		180						0.00
	180						0.00	RECP - PREP 3104.1 E	20/1	12	25	A	26	12	20/1	RECP - PREP 3102.1 E		180						0.00
	180						0.00	RECP - PREP 3104.1 F	20/1	12	27	B	28	12	20/1	RECP - PREP 3102.1 F		180						0.00
							0.00	RECP - FRIDGE A	20/1	12	29	C	30	12	20/1	RECP - FRIDGE B						720		0.00
							0.00	RECP - DISHWASHER A	20/1	12	31	A	32	12	20/1	RECP - DISHWASHER B						1200		0.00
							0.00				33	B	34											0.00
	360						0.00	RECP - CONV ROOF	20/1	12	35	C	36											0.00
							0.00	RECP - STOR, HALL	20/1	12	37	A	38	10	30/3	SPD								0.00
							0.00	RECP - BATHS	20/1	12	39	B	40	-	-	-								0.00
							0.00	RECP - WATER FOUNT	20/1	12	41	C	42	-	-	-								0.00
0	5940	0	0	0	3120	0	0.00	TOTALS								TOTALS	0	5580	0	0	0	1920	0	0.00

PANEL: L3A 2 (Sectio... — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - BIO 3108 A	20/1	12	43	A	44	12	20/1	RECP - ASTRO 3107 A		360						0.00
	720						0.00	RECP - BIO 3108 B	20/1	12	45	B	46	12	20/1	RECP - ASTRO 3107 B		720						0.00
	540						0.00	RECP - BIO 3109 C	20/1	12	47	C	48	12	20/1	RECP - ASTRO 3107 C		540						0.00
	540						0.00	RECP - BIO 3110 D	20/1	12	49	A	50	12	20/1	RECP - ASTRO 3107 D		540						0.00
	540						0.00	RECP - BIO 3111 E	20/1	12	51	B	52	12	20/1	RECP - ASTRO 3107 E		540						0.00
	540						0.00	RECP - BIO 3112 F	20/1	12	53	C	54	12	20/1	RECP - ASTRO 3107 F		540						0.00
	540						0.00	RECP - BIO 3113 G	20/1	12	55	A	56	12	20/1	RECP - ASTRO 3107 G		540						0.00
	540						0.00	RECP - BIO 3114 H	20/1	12	57	B	58	12	20/1	RECP - ASTRO 3107 H		540						0.00
	540						0.00	RECP - BIO 3114.1	20/1	12	59	C	60	12	20/1	RECP - COLLAB A		360						0.00
							0.00				61	A	62	12	20/1	RECP - COLLAB B		360						0.00
							0.00				63	B	64											0.00
							0.00				65	C	66											0.00
							0.00				67	A	68											0.00
							0.00				69	B	70											0.00
		180					0.00	VAV-E3-01-01	15/1	12	73	A	74											0.00
1		720					0.00	EF-E3-01.02	15/1	12	75	B	76	12	15/1	EF-E3-03.04				720				0.00
		1144					0.00	ACCU-IDF-3106	25/2	10	77	C	78	6	40/1	EF-E1-01				1800				0.00
		1144					0.00	--	--	--	79	A	80	12	15/1	EF-E3-03.04				744				0.00
		1144					0.00	ACCU-IDF-1106	25/2	10	81	B	82	10	25/2	ACCU-IDF-1106				1144				0.00
		1144					0.00	--	--	--	83	C	84	--	--	--				1144				0.00
0	4860	5476	0	0	0	0	0.00	TOTALS								TOTALS	0	5040	5552	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	21.4	11.0	0.0	0.0	5.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	15.7	11.0	0.0	0.0	5.0	0.0	0.0	Design KVA

*Input di...
**100% ...

Phase Load	
Ph	KVA
A	11.

ELECTRICAL PANEL SCHEDULES
EP-708

FOR BLUEBEAM LABELING/OCR:

0"
1"

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting **SURFACE** — Main... **MCB (225A)** — Neutral **200%** — Voltage: **208Y/120V-3PH 4W** — Main... **225 AMPS** — Ground **Equipment Ground** — Lugs **FEED THRU**

PANEL: **L3B** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - BIO 3112 A	20/1	12	1	A	2	12	20/1	RECP - BIO 3119 A		360						0.00
	720						0.00	RECP - BIO 3112 B	20/1	12	3	B	4	12	20/1	RECP - BIO 3119 B		720						0.00
	540						0.00	RECP - BIO 3112 C	20/1	12	5	C	6	12	20/1	RECP - BIO 3119 C		540						0.00
	540						0.00	RECP - BIO 3112 D	20/1	12	7	A	8	12	20/1	RECP - BIO 3119 D		540						0.00
	540						0.00	RECP - BIO 3112 E	20/1	12	9	B	10	12	20/1	RECP - BIO 3119 E		540						0.00
	540						0.00	RECP - BIO 3112 F	20/1	12	11	C	12	12	20/1	RECP - BIO 3119 F		540						0.00
	540						0.00	RECP - BIO 3112 G	20/1	12	13	A	14	12	20/1	RECP - BIO 3119 G		540						0.00
	540						0.00	RECP - BIO 3112 H	20/1	12	15	B	16	12	20/1	RECP - BIO 3119 H		540						0.00
	360						0.00	RECP - BIO 3112 I	20/1	12	17	C	18	12	20/1	RECP - BIO 3119 I		540						0.00
	180						0.00	RECP - BIO 3112 J	20/1	12	19	A	20	12	20/1	RECP - BIO 3119 J		540						0.00
	180						1.00	SPARE	20/1	12	21	B	22	12	20/1	RECP - SPANISH 1 A		540						0.00
	180						0.00	RECP - PREP 3104.1 A	20/1	12	23	C	24	12	20/1	RECP - SPANISH 1 B		540						0.00
	180						0.00	RECP - PREP 3104.1 B	20/1	12	25	A	26	12	20/1	RECP - SPANISH 1 C		720						0.00
	180						0.00	RECP - PREP 3104.1 C	20/1	12	27	B	28		20/1	SPARE								1.00
	180						0.00	RECP - PREP 3104.1 D	20/1	12	29	C	30		20/1	SPARE								1.00
	180						0.00	RECP - PREP 3104.1 E	20/1	12	31	A	32		20/1	SPARE								1.00
	180						0.00	RECP - PREP 3104.1 F	20/1	12	33	B	34	12	20/1	RECP - FRIDGE(1)								0.00
	180						0.00	RECP - PREP 3104.1 C	20/1	12	35	C	36	12	20/1	RECP - DISHWASHER(1)								0.00
					720		0.00	RECP - PREP 3104.1 D	20/1	12	37	A	38	10	30/3	SPD								0.00
					1200		0.00	RECP - PREP 3104.1 E	20/1	12	39	B	40	-	-	-								0.00
							0.00	RECP - PREP 3104.1 F	20/1	12	41	C	42	-	-	-								0.00
0	6300	0	0	0	1920	0	1.00	**TOTALS**								**TOTALS**	0	7200	0	0	0	0	0	3.00

3 — 360 | UTILITY CONTROLLER A | 20/1 | 12 | 35 | C | 36 | 12 | 20/1 | RECP - DISHWASHER B | 1200 | 0.00
3 — 360 | UTILITY CONTROLLER B | 20/1 | 12 | 37 | A | 38 | 10 | 30/3 | SPD | | 0.00

PANEL: **L3B 2 (Sectio...** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - SPANISH 2 A	20/1	12	43	A	44	12	20/1	RECP - SPANISH 4 A		540						0.00
	540						0.00	RECP - SPANISH 2 B	20/1	12	45	B	46	12	20/1	RECP - SPANISH 4 B		540						0.00
	720						0.00	RECP - SPANISH 2 C	20/1	12	47	C	48	12	20/1	RECP - SPANISH 4 C		720						0.00
	540						0.00	RECP - SPANISH 3 A	20/1	12	49	A	50	12	20/1	RECP - SPANISH 5 A		540						0.00
	540						0.00	RECP - SPANISH 3 B	20/1	12	51	B	52	12	20/1	RECP - SPANISH 5 B		540						0.00
	720						0.00	RECP - SPANISH 3 C	20/1	12	53	C	54	12	20/1	RECP - SPANISH 5 C		720						0.00
	900						0.00	RECP - AP OFF_STO	20/1	12	55	A	56											0.00
	1260						0.00	RECP - HALL,STO,JAN	20/1	12	57	B	58											0.00
	540						0.00	RECP - MECH, ELEC	20/1	12	59	C	60											0.00
	540						0.00	RECP - ROOF CONV	20/1	12	61	A	62											0.00
							0.00				63	B	64	12	20/1	RECP - SPANISH 6 A		540						0.00
							0.00				65	C	66	12	20/1	RECP - SPANISH 6 B		540						0.00
360							0.00	CAB LIGHTING	15/1	12	67	A	68	12	20/1	RECP - SPANISH 6 C		720						0.00
		1176					0.00	EF-F1-01	25/1	10	69	B	70	12	20/1	UV AHU-F3-01						1200		0.00
					180		0.00	BAS PANEL	20/1	12	71	C	72	12	20/1	UV AHU-F3-01						1200		0.00
					180		0.00	VAV-F3-01-01	20/1	12	73	A	74	12	20/1	TRAP PRIMER								0.00
		1056					0.00	EF-F3-01.02	15/1	12	75	B	76	12	15/1	EF-E3-03			528					0.00
		1144					0.00	ACCU-IDF-1129	25/2	10	77	C	78						1144					0.00
		1144					0.00	--	--		79	A	80						1144					0.00
		1144					0.00	ACCU-IDF-2125	25/2	10	81	B	82	10	25/2	ACCU-IDF-3123			1144					0.00
		1144					0.00	--	--		83	C	84		--	--			1144					0.00
360	6840	6808	0	0	360	0	0.00	**TOTALS**								**TOTALS**	0	3600	2816	0	0	3700	0	0.00

3 — 100 | CONTACT CSCI | 20/1 | 12 | 65 | C | 66 | 12 | 20/1 | CONTACT CSCI | 100

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.4	23.9	9.6	0.0	0.0	6.0	0.0	4.0	Connected KVA
1.25	**	1.00	1.00	1.00	0.65	0.50	*Design Factors	
0.5	17.0	9.6	0.0	0.0	6.0	0.0	2.0	Design KVA

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	43.9	121.9		35.0	97.2

Phase Load

Ph	KVA
A	11.9
B	15.5
C	12.5

Panel Remarks:

PANEL: **L3B**

Date: 1/7/2026 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting **SURFACE** — Main... **MCB (225A)** — Neutral **200%** — Voltage: **208Y/120V-3PH 4W** — Main... **225 AMPS** — Ground **Equipment Ground** — Lugs **FEED THRU**

PANEL: **L3C** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - AP BIO 3135 A	20/1	12	1	A	2	12	20/1	RECP - ANAT 3132 A		360						0.00
	720						0.00	RECP - AP BIO 3135 B	20/1	12	3	B	4	12	20/1	RECP - ANAT 3132 B		720						0.00
	540						0.00	RECP - AP BIO 3135 C	20/1	12	5	C	6	12	20/1	RECP - ANAT 3132 C		540						0.00
	540						0.00	RECP - AP BIO 3135 D	20/1	12	7	A	8	12	20/1	RECP - ANAT 3132 D		540						0.00
	540						0.00	RECP - AP BIO 3135 E	20/1	12	9	B	10	12	20/1	RECP - ANAT 3132 E		540						0.00
	540						0.00	RECP - AP BIO 3135 F	20/1	12	11	C	12	12	20/1	RECP - ANAT 3132 F		540						0.00
	540						0.00	RECP - AP BIO 3135 G	20/1	12	13	A	14	12	20/1	RECP - ANAT 3132 G		540						0.00
	540						0.00	RECP - AP BIO 3135 H	20/1	12	15	B	16	12	20/1	RECP - ANAT 3132 H		540						0.00
	360						0.00	RECP - AP BIO 3135 I	20/1	12	17	C	18	12	20/1	RECP - PREP 3131.1 A		360						0.00
	180						0.00	RECP - AP BIO 3135 J	20/1	12	19	A	20	12	20/1	RECP - PREP 3131.1 B		180						0.00
	360						0.00	RECP - PREP 3135.1 A	20/1	12	21	B	22	12	20/1	RECP - PREP 3131.1 C		180						0.00
	180						0.00	RECP - PREP 3135.1 B	20/1	12	23	C	24	12	20/1	RECP - PREP 3131.1 D		180						0.00
	180						0.00	RECP - PREP 3135.1 C	20/1	12	25	A	26	12	20/1	RECP - PREP 3131.1 E		180						0.00
	180						0.00	RECP - PREP 3135.1 D	20/1	12	27	B	28	12	20/1	RECP - PREP 3131.1 F		180						0.00
	180						0.00	RECP - PREP 3135.1 E	20/1	12	29	C	30	12	20/1	RECP - PREP 3131.1 G		180						0.00
	720						0.00	RECP - FRIDGE A (1)	20/1	12	31	A	32	12	20/1	RECP - FRIDGE B (1)		720						0.00
	1200						0.00	RECP - DISHWASHER A	20/1	12	33	B	34	12	20/1	RECP - DISHWASHER B		1200						0.00
							0.00				35	C	36											0.00

3 — 360 | UTILITY CONTROLLER A | 20/1 | 12 | 37 | A | 38 | 10 | 30/3 | SPD | | 0.00
3 — 360 | UTILITY CONTROLLER B | 20/1 | 12 | 39 | B | 40 | - | - | - | | 0.00

							0.00				41	C	42	-	-	-								0.00
0	7860	0	0	0	720	0	0.00	**TOTALS**								**TOTALS**	0	7680	0	0	0	0	0	0.00

PANEL: **L3C 2 (Sectio...** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - FRENCH 3137 A	20/1	12	43	A	44	12	20/1	RECP - PLC/WORK A		720						0.00
	540						0.00	RECP - FRENCH 3137 B	20/1	12	45	B	46	12	20/1	RECP - PLC/WORK B		180						0.00
	720						0.00	RECP - FRENCH 3137 C	20/1	12	47	C	48	12	20/1	RECP - PLC/WORK C		180						0.00
	540						0.00	RECP - SPANISH 7 A	20/1	12	49	A	50	12	20/1	RECP - PLC/WORK D		180						0.00
	540						0.00	RECP - SPANISH 7 B	20/1	12	51	B	52	12	20/1	RECP - PLC/WORK E		180						0.00
	720						0.00	RECP - SPANISH 7 C	20/1	12	53	C	54	12	20/1	RECP - PLC/WORK F		180						0.00
	540						0.00	RECP - SPANISH 6 A	20/1	12	55	A	56	12	20/1	RECP - PLC/WORK G		180						0.00
	540						0.00	RECP - SPANISH 6 B	20/1	12	57	B	58	12	20/1	RECP - PLC/WORK H		180						0.00
	720						0.00	RECP - SPANISH 6 C	20/1	12	59	C	60	12	20/1	RECP - PLC/WORK I		1200						0.00
							0.00	RECP - HALL	20/1	12	61	A	62	12	20/1	RECP - PLC/WORK J		180						0.00
							0.00	RECP - MECH, ELEC	20/1	12	63	B	64	12	20/1	RECP - FRIDGE C (1)		720						0.00
							0.00				65	C	66	12	20/1	RECP - PRINTER		1200						0.00
							0.00				67	A	68	12	20/2	RECP - PRINTER SPEC(1)							1664	0.00
		1176					0.00	EF-F1-01	25/1	10	69	B	70	12	20/1	RECP - FLOORBOXES A		720					1664	0.00
					180		0.00	BAS PANEL	20/1	12	71	C	72	12	20/1	RECP - FLOORBOXES A		720						0.00
					180		0.00	VAV-F3-01-01	20/1	12	73	A	74											0.00
		1056					0.00	EF-F3-01.02	15/1	12	75	B	76	12	15/1	EF-E3-03			528					0.00
		1144					0.00	ACCU-IDF-1129	25/2	10	77	C	78						1144					0.00
		1144					0.00	--	--		79	A	80						1144					0.00
		1144					0.00	ACCU-IDF-2125	25/2	10	81	B	82	10	25/2	ACCU-IDF-3123			1144					0.00
		1144					0.00	--	--		83	C	84		--	--			1144					0.00
360	6840	6808	0	0	360	0	0.00	**TOTALS**								**TOTALS**	0	3600	2816	0	0	3700	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	27.7	7.6	0.0	0.0	8.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	0.65	0.50	*Design Factors	
0.0	18.8	7.6	0.0	0.0	8.0	0.0	0.0	Design KVA

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	43.3	120.1		34.4	95.5

Phase Load

Ph	KVA
A	12.3
B	16.4
C	14.6

Panel Remarks:
(1)GFI(GROUND FAULT INTERRUPTOR)

PANEL: **L3C**

Date: 1/7/2026 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting **SURFACE** — Main... **MCB (225A)** — Neutral **200%** — Voltage: **208Y/120V-3PH 4W** — Main... **225 AMPS** — Ground **Equipment Ground** — Lugs **FEED THRU**

PANEL: **L3D** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - PHYSICS A	20/1	12	1	A	2	12	20/1	RECP -CHEM 3147 A		360						0.00
	720						0.00	RECP - PHYSICS B	20/1	12	3	B	4	12	20/1	RECP -CHEM 3147 B		720						0.00
	540						0.00	RECP - PHYSICS C	20/1	12	5	C	6	12	20/1	RECP -CHEM 3147 C		540						0.00
	540						0.00	RECP - PHYSICS D	20/1	12	7	A	8	12	20/1	RECP -CHEM 3147 D		540						0.00
	540						0.00	RECP - PHYSICS E	20/1	12	9	B	10	12	20/1	RECP -CHEM 3147 E		540						0.00
	540						0.00	RECP - PHYSICS F	20/1	12	11	C	12	12	20/1	RECP -CHEM 3147 F		540						0.00
	540						0.00	RECP - PHYSICS G	20/1	12	13	A	14	12	20/1	RECP -CHEM 3147 G		540						0.00
							1.00	SPARE	20/1	12	15	B	16	12	20/1	RECP -CHEM 3147 H		540						0.00
	360						0.00	RECP - PREP 3145.1 A	20/1	12	17	C	18	12	20/1	RECP -CHEM 3147 I		360						0.00
	180						0.00	RECP - PREP 3145.1 B	20/1	12	19	A	20	12	20/1	RECP -CHEM 3147 J		180						0.00
	180						0.00	RECP - PREP 3145.1 C	20/1	12	21	B	22	12	20/1	RECP - PREP 3141.1 B		180						0.00
	180						0.00	RECP - PREP 3145.1 D	20/1	12	23	C	24	12	20/1	RECP - PREP 3141.1 C		180						0.00
	180						0.00	RECP - PREP 3145.1 E	20/1	12	25	A	26	12	20/1	RECP - PREP 3141.1 D		180						0.00
	180						0.00	RECP - PREP 3145.1 F	20/1	12	27	B	28	12	20/1	RECP - PREP 3141.1 E		180						0.00
	720						0.00	RECP - FRIDGE A	20/1	12	29	C	30	12	20/1	RECP - PREP 3141.1 F		180						0.00
	1200						0.00	RECP - DISHWASHER A	20/1	12	31	A	32	12	20/1	RECP - PREP 3141.1 F		180						0.00
							0.00				33	B	34	12	20/1	RECP - FRIDGE B(1)		720						0.00

3 — 360 | UTILITY CONTROLLER A | 20/1 | 12 | 35 | C | 36 | 12 | 20/1 | RECP - DISHWASHER B | 1200 | 0.00
3 — 360 | UTILITY CONTROLLER B | 20/1 | 12 | 37 | A | 38 | 10 | 30/3 | SPD | | 0.00

					360		0.00	FUME HOOD A	20/1	12	39	B	40	-	-	-								0.00
					360		0.00	FUME HOOD B	20/1	12	41	C	42	-	-	-								0.00
0	6960	0	0	0	1440	0	1.00	**TOTALS**								**TOTALS**	0	8040	0	0	0	0	0	0.00

PANEL: **L3D 2 (Sectio...** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540						0.00	RECP - IPC 3145 A	20/1	12	43	A	44	12	20/1	RECP - CHEM 3141 A		360						0.00
	540						0.00	RECP - IPC 3145 B	20/1	12	45	B	46	12	20/1	RECP - CHEM 3141 B		360						0.00
	720						0.00	RECP - IPC 3145 C	20/1	12	47	C	48	12	20/1	RECP - CHEM 3141 C		360						0.00
	360						0.00	RECP - COLLAB A	20/1	12	49	A	50	12	20/1	RECP - CHEM 3141 D		360						0.00
	360						0.00	RECP - COLLAB B	20/1	12	51	B	52	12	20/1	RECP - CHEM 3141 E		360						0.00
	540						0.00	RECP - HALL	20/1	12	53	C	54	12	20/1	RECP - CHEM 3141 F		540						0.00
	540						0.00	RECP - ELEC, STOR	20/1	12	55	A	56	12	20/1	RECP - CHEM 3141 G		540						0.00
	540						0.00	RECP - BATHS	20/1	12	57	B	58	12	20/1	RECP - CHEM 3141 H		540						0.00
					1200		0.00	RECP - WATER FOUNT	20/1	12	59	C	60	12	20/1	RECP - CHEM 3140 A		360						0.00
							0.00				61	A	62	12	20/1	RECP - CHEM 3140 B		360						0.00
							0.00				63	B	64	12	20/1	RECP - CHEM 3140 C		360						0.00
							0.00				65	C	66	12	20/1	RECP - CHEM 3140 D		540						0.00
							0.00				67	A	68	12	20/1	RECP - CHEM 3140 E		540						0.00
		180					0.00	VAV-C3-01-01	15/1	12	69	B	70	12	20/1	RECP - CHEM 3140 F		360						0.00
		960					0.00	EF-O3-01.02	15/1	12	71	C	72	12	20/1	RECP - CHEM 3140 G		540						0.00
		780					0.00	EF-C3-02.03	15/1	12	73	A	74	12	20/1	RECP - CHEM 3140 H		540						0.00
		739					0.00	EF-C3-01.03-04	15/1	12	75	B	76	12	20/1	RECP - CHEM 3140 I		360						0.00
		1144					0.00	ACCU-IDF-3146	25/2	10	77	C	78											0.00
		1144					0.00	--	--		79	A	80											0.00
		1144					0.00	ACCU-IDF-2159	25/2	10	81	B	82	10	25/2	ACCU-IDF-1162			1144					0.00
		1144					0.00	--	--		83	C	84		--	--			1144					0.00
0	4140	8991	0	0	1200	0	0.00	**TOTALS**								**TOTALS**	0	7200	2288	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	26.3	11.3	0.0	0.0	2.6	0.0	1.0	Connected KVA
1.25	**	1.00	1.00	1.00	0.65	0.50	*Design Factors	
0.0	18.2	11.3	0.0	0.0	2.6	0.0	0.5	Design KVA

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	41.3	114.5		32.6	90.5

Phase Load

Ph	KVA
A	13.1
B	12.0
C	15.2

Panel Remarks:
(1)GFI(GROUND FAULT INTERRUPTOR)

PANEL: **L3D**

Date: 1/7/2026 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — AIC... 10000

Mounting **SURFACE** — Main... **MLO** — Neutral **200%** — Voltage: **208Y/120V-3PH 4W** — Main... **225 AMPS** — Ground **Equipment Ground** — Lugs **SINGLE**

PANEL: **L3C SECT 3** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							1.00	SPARE	20/1		1	A	2											0.00
							1.00	SPARE	20/1		3	B	4											0.00
							1.00	SPARE	20/1		5	C	6											0.00
							1.00	SPARE	20/1		7	A	8											0.00
							1.00	SPARE	20/1		9	B	10											0.00
							1.00	SPARE	20/1		11	C	12											0.00
							1.00	SPARE	20/1		13	A	14											0.00
							1.00	SPARE	20/1		15	B	16											0.00
							0.00				17	C	18											0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26											0.00
							0.00				27	B	28											0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
							0.00				37	A	38											0.00
							0.00				39	B	40											0.00
							0.00				41	C	42											0.00
0	0	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	0.65	0.50	*Design Factors	
0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	Design KVA

*Input di...
**100% ...

| | Con. KVA | Con. Amps | |

ELECTRICAL PANEL SCHEDULES
EP-709
FOR BLUEBEAM LABELING/OCR:

0"
1"

Job: Job Name
Job No. Job Number
Mounting **SURFACE**
Main Type **MCB (100A)**
Neutral **100%**
Voltage: **480Y/277V-3PH 4W**
Main Size: **100 AMPS**
AIC... **42000**
Ground **Equipment Ground**
Lugs **SINGLE**

PANEL: **SH1D** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							0.00				1	A	2											0.00
							0.00				3	B	4											0.00
							0.00				5	C	6											0.00
							0.00				7	A	8											0.00
							0.00				9	B	10											0.00
							0.00				11	C	12											0.00
							0.00				13	A	14											0.00
							0.00				15	B	16											0.00
							0.00				17	C	18											0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26											0.00
							0.00				27	B	28											0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
0	4800	0	0	0	7680	0	0.00	XFMR S1TD(45 KVA)	SEE	75/3	37	A	38	10	30/3	SPD								
0	4800	0	0	0	7680	0	0.00	-	RISER	-	39	B	40		--	--								
0	4800	0	0	0	7680	0	0.00	-	-	-	41	C	42		--	--								
0	14400	0	0	0	23040	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	14.4	0.0	0.0	0.0	23.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	12.2	0.0	0.0	0.0	23.0	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	12.5
B	12.5
C	12.5

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	37.4	45.0		35.2	42.4

PANEL: **SH1D**

Date: 1/7/2026 | By: Designer | 1932845

Job: GPISD Phase 3b
Job No. 240539
Mounting **SURFACE**
Main... **MCB (150A)**
Neutral **200%**
Voltage: **208Y/120V-3PH 4W**
Main... **225 AMPS**
AIC... **10000**
Ground **Equipment Ground**
Lugs **SINGLE**

PANEL: **S1LD** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - QUAD RACK 1129	20/1	12	1	A	2		50/3	SL1E	0	960	0	0	0	2800	0	0.00
					1560		0.00	RECP - SPEC RACK 1129	30/2	10	3	B	4		--	--	0	960	0	0	0	2800	0	0.00
					1560		0.00	--	--		5	C	6		--	--	0	960	0	0	0	2800	0	0.00
	360						0.00	RECP - QUAD WALL A 1129	20/1	12	7	A	8		50/3	SL1F	0	960	0	0	0	2800	0	0.00
	360						0.00	RECP - QUAD WALL B 1129	20/1	12	9	B	10		--	--	0	960	0	0	0	2800	0	0.00
	360						0.00	RECP - QUAD WALL C 1129	20/1	12	11	C	12		--	--	0	960	0	0	0	2800	0	0.00
	720						0.00	FACP PANEL 1129	20/1	12	13	A	14		50/3	SL2E	0	1680	0	0	0	1040	0	0.00
	720						0.00	SEC BOOST PANEL 1129	20/1	12	15	B	16		--	--	0	1680	0	0	0	1040	0	0.00
	720						0.00	ACCESS CONT PANEL 1129	20/1	12	17	C	18		--	--	0	1680	0	0	0	1040	0	0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26	10	30/3	SPD								
							0.00				27	B	28	-	-	-								
							0.00				29	C	30	-	-	-								
0	3600	0	0	0	3120	0	0.00	**TOTALS**								**TOTALS**	0	10800	0	0	0	19920	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	14.4	0.0	0.0	0.0	23.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	12.2	0.0	0.0	0.0	23.0	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	11.7
B	12.9
C	12.9

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	37.4	103.9		35.2	97.8

PANEL: **S1LD**

Date: 1/7/2026 | By: Designer | 1932845

Job: GPISD Phase 3b
Job No. 240539
Mounting **SURFACE**
Main... **MLO**
Neutral **200%**
Voltage: **208Y/120V-3PH 4W**
Main... **225 AMPS**
AIC... **10000**
Ground **Equipment Ground**
Lugs **SINGLE**

PANEL: **S1LF** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - QUAD RACK 1545	20/1	12	1	A	2											0.00
					1560		0.00	RECP - SPEC RACK 1545	30/2	10	3	B	4											0.00
					1560		0.00	--	--		5	C	6											0.00
	360						0.00	RECP - QUAD RACK 1545	20/1	12	7	A	8											0.00
					1560		0.00	RECP - SPEC RACK 1545	30/2	10	9	B	10											0.00
	720						0.00	RECP - QUAD WALL A 1545	20/1	12	13	A	14											0.00
	720						0.00	RECP - QUAD WALL B 1545	20/1	12	15	B	16											0.00
	720						0.00	RECP - DUPL WALL C 1545	20/1	12	17	C	18											0.00
					720		0.00	FACP PANEL 1545	20/1	12	19	A	20											0.00
					720		0.00	SEC BOOST PANEL 1545	20/1	12	21	B	22											0.00
					720		0.00	ACCESS CONT PANEL1545	20/1	12	23	C	24											0.00
							0.00				25	A	26	10	30/3	SPD								
							0.00				27	B	28	-	-	-								
							0.00				29	C	30	-	-	-								
0	2880	0	0	0	8400	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	2.9	0.0	0.0	0.0	8.4	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	2.9	0.0	0.0	0.0	8.4	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	2.2
B	4.6
C	4.6

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	11.3	31.3		11.3	31.3

PANEL: **S1LF**

Date: 1/7/2026 | By: Designer | 1932845

3
Job: GPISD Phase 3b
Job No. 240539
Mounting **SURFACE**
Main... **MLO**
Neutral **200%**
Voltage: **208Y/120V-3PH 4W**
Main... **400 AMPS**
AIC... **10000**
Ground **Equipment Ground**
Lugs **SINGLE**

PANEL: **E1SH1M** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							0.00				1	A	2	(E)	15/3	(E)HWP-2				2275				0.00
177							0.00	(E)LIGHT RM A214 A218	20/1	(E)	3	B	4	-		-				2275				0.00
425							0.00	(E)LIGHT MECH	20/1	(E)	5	C	6	-		-				2275				0.00
71							0.00	(E)LIGHT ELEC A113	20/1	(E)	7	A	8	(E)	45/3	(E)PCHP-2				5817				0.00
							0.00				9	B	10	-		-				5817				0.00
							0.00				11	C	12	-		-				5817				0.00
							0.00				13	A	14	(E)	60/3	(E)SCHP-2				7479				0.00
							0.00				15	B	16	-		-				7479				0.00
							0.00				17	C	18	-		-				7479				0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
0	14400	0	0	0	14560	0	0.00	XFMR S4TA	175/3	SEE	25	A	26		15/3	SPARE								1.00
0	14400	0	0	0	14560	0	0.00	-	-	RISER	27	B	28		-	-								0.00
0	14400	0	0	0	14560	0	0.00	-	-	-	29	C	30		-	-								0.00
0	4800	0	0	0	7680	0	0.00	PANEL SH1D	100/3	SEE	31	A	32	(E)	100/3	(E)PANEL SH1B	130							0.00
0	4800	0	0	0	7680	0	0.00	-	-	RISER	33	B	34	-	-	-	130							0.00
0	4800	0	0	0	7680	0	0.00	-	-	-	35	C	36	-	-	-	130							0.00
							0.00	BUILDING METER	15/3	(E)	37	A	38	(E)	70/3	(E)XSIC (45 KVA)						6736		0.00
							0.00		-	-	39	B	40	-	-	-						6736		0.00
							0.00		-	-	41	C	42	-	-	-						6736		0.00
							0.00				43	A	44	(E)	225/3	(E)XSIM (150 KVA)						49148		0.00
							0.00				45	B	46	-	-	-						49148		0.00
							0.00				47	C	48	-	-	-						49148		0.00
673	57600	0	0	0	66770	0	0.00	**TOTALS**								**TOTALS**	390	0	46713	0	0	167653	0	1.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
1.1	57.6	46.7	0.0	0.0	234.4	0.0	1.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
1.3	33.8	46.7	0.0	0.0	234.4	0.0	0.5	Design KVA

Phase Load	
Ph	KVA
A	113.1
B	113.2
C	113.5

Panel Remarks:

*Input di...
**100% ...

86880

3
PANEL: E1SH1M

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	340.8	409.9		316.8	381.0

Date: 1/7/2026 | By: Designer | 1932845

Job: GPISD Phase 3b
Job No. 240539
Mounting **SURFACE**
Main Type **MLO**
Neutral **100%**
Voltage: **208Y/120V-3PH 4W**
Main... **100 AMPS**
AIC... **10000**
Ground **Equipment Ground**
Lugs **SINGLE**

PANEL: **S1LE** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - QUAD RACK 1503	20/1	12	1	A	2											0.00
					1560		0.00	RECP - SPEC RACK 1503	30/2	10	3	B	4											0.00
					1560		0.00	--	--		5	C	6											0.00
	360						0.00	RECP - QUAD RACK 1503	20/1	12	7	A	8											0.00
					1560		0.00	RECP - SPEC RACK 1503	30/2	10	9	B	10											0.00
	720						0.00	RECP - QUAD WALL A 1503	20/1	12	13	A	14											0.00
	720						0.00	RECP - QUAD WALL B 1503	20/1	12	15	B	16											0.00
	720						0.00	RECP - QUAD WALL C 1503	20/1	12	17	C	18											0.00
							0.00	FACP PANEL 1503	20/1	12	19	A	20											0.00
							0.00	SEC BOOST PANEL 1503	20/1	12	21	B	22											0.00
							0.00	ACCESS CONT PANEL1503	20/1	12	23	C	24											0.00
							0.00				25	A	26	10	30/3	SPD								
							0.00				27	B	28	-	-	-								
							0.00				29	C	30	-	-	-								
0	2880	0	0	0	8400	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	2.9	0.0	0.0	0.0	8.4	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	2.9	0.0	0.0	0.0	8.4	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	2.2
B	4.6
C	4.6

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	11.3	31.3		11.3	31.3

PANEL: **S1LE**

Date: 1/7/2026 | By: Designer | 1932845

Job: Job Name
Job No. Job Number
Mounting **SURFACE**
Main Type **MLO**
Neutral **100%**
Voltage: **480Y/277V-3PH 4W**
Main Size: **125 AMPS**
AIC... **42000**
Ground **Equipment Ground**
Lugs **SINGLE**

PANEL: **SH4A** — ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
2968							0.00	LIGHT - MULTI A	20/1	10	1	A	2											0.00
2968							0.00	LIGHT - MULTI B	20/1	10	3	B	4											0.00
1484							0.00	LIGHT - MULTI C	20/1	10	5	C	6											0.00
2968							0.00	LIGHT - MULTI D	20/1	10	7	A	8											0.00
2968							0.00	LIGHT - MULTI E	20/1	10	9	B	10											0.00
2226							0.00	LIGHT - MULTI F	20/1	10	11	C	12											0.00
							0.00				13	A	14											0.00
							0.00				15	B	16											0.00
							0.00				17	C	18											0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26											0.00
							0.00				27	B	28											0.00
							0.00				29	C	30											0.00
15582	0	0	0	0	0	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
19.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	5.9
B	5.9
C	3.7

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	15.6	18.7		19.5	23.4

PANEL: **SH4A**

Date: 1/7/2026 | By: Designer | 1932845

1

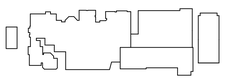
Plot Stamp:
1/7/2026 7:46:14 PM

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-965-0008

LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
Galena Park, TX 77547
ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL PANEL SCHEDULES

EP-709

ELECTRICAL PANEL SCHEDULES
EP-710
FOR BLUEBEAM LABELING/OCR:

0"
1"

Job: GPISD Phase 3b — Job No. 240539 — A/C... 10000

Mounting **SURFACE** — Main... **MCB (100A)** — Neutral **200%** — Voltage: **208Y/120V-3PH 4W** — Main... **100 AMPS** — Ground **Equipment Ground** — Lugs **SINGLE**

PANEL: **SL2A**

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - QUAD RACK 1106	20/1	12	1	A	2	12	20/1	RECP - QUAD RACK 3106		360						0.00
					1560		0.00	RECP - SPEC RACK 1106	30/2	10	3	B	4	10	30/2	RECP - SPEC RACK 3106						1560		0.00
					1560		0.00	--	--		5	C	6			--						1560		0.00
	360						0.00	RECP - QUAD WALL A 1106	20/1	12	7	A	8	12	20/1	RECP - QUAD WALL A 3106		360						0.00
	360						0.00	RECP - QUAD WALL B 1106	20/1	12	9	B	10	12	20/1	RECP - QUAD WALL B 3106		360						0.00
	360						0.00	RECP - QUAD WALL C 1106	20/1	12	11	C	12	12	20/1	RECP - QUAD WALL C 3106		360						0.00
	720						0.00	FACP PANEL 1106	20/1	12	13	A	14	12	20/1	FACP PANEL 3106		720						0.00
	720						0.00	SEC BOOST PANEL 1106	20/1	12	15	B	16	12	20/1	SEC BOOST PANEL 3106		720						0.00
	720						0.00	ACCESS CONT PANEL 1106	20/1	12	17	C	18	12	20/1	ACCESS CONT PANEL 3106		720						0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
	360						0.00	RECP - QUAD RACK 2103	20/1	12	25	A	26											0.00
					1560		0.00	RECP - SPEC RACK 2103	30/2	10	27	B	28											0.00
					1560		0.00	--	--		29	C	30											0.00
	360						0.00	RECP - QUAD WALL A 2103	20/1	12	31	A	32											0.00
	360						0.00	RECP - QUAD WALL B 2103	20/1	12	33	B	34											0.00
	360						0.00	RECP - QUAD WALL C 2103	20/1	12	35	C	36											0.00
	720						0.00	FACP PANEL 2103	20/1	12	37	A	38	10	30/3	SPD								0.00
	720						0.00	SEC BOOST PANEL 2103	20/1	12	39	B	40	-	-	-								0.00
	720						0.00	ACCESS CONT PANEL 2103	20/1	12	41	C	42	-	-	-								0.00
0	7200	0	0	0	6240	0	0.00	**TOTALS**								**TOTALS**	0	3600	0	0	0	3120	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	10.8	0.0	0.0	0.0	9.4	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	10.4	0.0	0.0	0.0	9.4	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	4.3
B	7.9
C	7.9

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	20.2	56.0		19.8	54.8

PANEL: **SL2A**

Date: 1/8/2026 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — A/C... 10000

Mounting **SURFACE** — Main... **MCB (400A)** — Neutral **200%** — Voltage: **208Y/120V-3PH 4W** — Main... **400 AMPS** — Ground **Equipment Ground** — Lugs **SINGLE**

PANEL: **SL4A**

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
0	3600	0	0	0	3120	0	0	PANEL S2LA	100/3	SEE	1	A	2	SEE	100/3	PANEL S2LD	0	3600	0	0	0	4160	0	0
0	3600	0	0	0	3120	0	0	-	-	RISER	3	B	4	RISER	-	-	0	3600	0	0	0	4160	0	0
0	3600	0	0	0	3120	0	0	-	-	-	5	C	6	-	-	-	0	3600	0	0	0	4160	0	0
0	3600	0	0	0	3120	0	0	PANEL S2LE	100/3	SEE	7	A	8	SEE	100/3	PANEL S2LF	0	3600	0	0	0	4160	0	0
0	3600	0	0	0	3120	0	0	-	-	RISER	9	B	10	RISER	-	-	0	3600	0	0	0	4160	0	0
0	3600	0	0	0	3120	0	0	-	-	-	11	C	12	-	-	-	0	3600	0	0	0	4160	0	0
							0.00				13	A	14											0.00
							0.00				15	B	16											0.00
							0.00				17	C	18											0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26											0.00
							0.00				27	B	28											0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
							0.00				37	A	38	10	30/3	SPD								0.00
							0.00				39	B	40	-	-	-								0.00
							0.00				41	C	42	-	-	-								0.00
0	21600	0	0	0	18720	0	0.00	**TOTALS**								**TOTALS**	0	21600	0	0	0	24960	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	43.2	0.0	0.0	0.0	43.7	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	26.6	0.0	0.0	0.0	43.7	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	29.0
B	29.0
C	29.0

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	86.9	241.2		70.3	195.1

PANEL: **SL4A**

Date: 1/7/2026 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — A/C... 10000

Mounting **SURFACE** — Main... **MCB (100A)** — Neutral **200%** — Voltage: **208Y/120V-3PH 4W** — Main... **100 AMPS** — Ground **Equipment Ground** — Lugs **SINGLE**

PANEL: **SL2B**

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - QUAD RACK 1129	20/1	12	1	A	2	12	20/1	RECP - QUAD RACK 3106		360						0.00
					1560		0.00	RECP - SPEC RACK 1129	30/2	10	3	B	4	10	30/2	RECP - SPEC RACK 3106						1560		0.00
					1560		0.00	--	--		5	C	6			--						1560		0.00
	360						0.00	RECP - QUAD WALL A 1129	20/1	12	7	A	8	12	20/1	RECP - QUAD WALL A 3106		360						0.00
	360						0.00	RECP - QUAD WALL B 1129	20/1	12	9	B	10	12	20/1	RECP - QUAD WALL B 3106		360						0.00
	360						0.00	RECP - QUAD WALL C 1129	20/1	12	11	C	12	12	20/1	RECP - QUAD WALL C 3106		360						0.00
	720						0.00	FACP PANEL 1129	20/1	12	13	A	14	12	20/1	FACP PANEL 3106		720						0.00
	720						0.00	SEC BOOST PANEL 1129	20/1	12	15	B	16	12	20/1	SEC BOOST PANEL 3106		720						0.00
	720						0.00	ACCESS CONT PANEL 1129	20/1	12	17	C	18	12	20/1	ACCESS CONT PANEL 3106		720						0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
	360						0.00	RECP - QUAD RACK 2125	20/1	12	25	A	26											0.00
					1560		0.00	RECP - SPEC RACK 2125	30/2	10	27	B	28											0.00
					1560		0.00	--	--		29	C	30											0.00
	360						0.00	RECP - QUAD WALL A 2125	20/1	12	31	A	32											0.00
	360						0.00	RECP - QUAD WALL B 2125	20/1	12	33	B	34											0.00
	360						0.00	RECP - QUAD WALL C 2125	20/1	12	35	C	36											0.00
	720						0.00	FACP PANEL 2125	20/1	12	37	A	38	10	30/3	SPD								0.00
	720						0.00	SEC BOOST PANEL 2125	20/1	12	39	B	40	-	-	-								0.00
	720						0.00	ACCESS CONT PANEL 2125	20/1	12	41	C	42	-	-	-								0.00
0	7200	0	0	0	6240	0	0.00	**TOTALS**								**TOTALS**	0	3600	1200	0	0	3120	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	10.8	1.2	0.0	0.0	9.4	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	10.4	1.2	0.0	0.0	9.4	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	4.3
B	7.9
C	9.1

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	21.4	59.3		21.0	58.2

PANEL: **SL2B**

Date: 1/8/2026 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — A/C... 10000

Mounting **SURFACE** — Main... **MCB (100A)** — Neutral **200%** — Voltage: **208Y/120V-3PH 4W** — Main... **100 AMPS** — Ground **Equipment Ground** — Lugs **SINGLE**

PANEL: **SL2C**

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - QUAD RACK 1129	20/1	12	1	A	2	12	20/1	RECP - QUAD RACK 3106		360						0.00
					1560		0.00	RECP - SPEC RACK 1129	30/2	10	3	B	4	10	30/2	RECP - SPEC RACK 3106						1560		0.00
					1560		0.00	--	--		5	C	6			--						1560		0.00
	360						0.00	RECP - QUAD WALL A 1129	20/1	12	7	A	8	12	20/1	RECP - QUAD WALL A 3106		360						0.00
	360						0.00	RECP - QUAD WALL B 1129	20/1	12	9	B	10	12	20/1	RECP - QUAD WALL B 3106		360						0.00
	360						0.00	RECP - QUAD WALL C 1129	20/1	12	11	C	12	12	20/1	RECP - QUAD WALL C 3106		360						0.00
	720						0.00	FACP PANEL 1129	20/1	12	13	A	14	12	20/1	FACP PANEL 3106		720						0.00
	720						0.00	SEC BOOST PANEL 1129	20/1	12	15	B	16	12	20/1	SEC BOOST PANEL 3106		720						0.00
	720						0.00	ACCESS CONT PANEL 1129	20/1	12	17	C	18	12	20/1	ACCESS CONT PANEL 3106		720						0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
	360						0.00	RECP - QUAD RACK 2125	20/1	12	25	A	26											0.00
					1560		0.00	RECP - SPEC RACK 2125	30/2	10	27	B	28											0.00
					1560		0.00	--	--		29	C	30											0.00
	360						0.00	RECP - QUAD WALL A 2125	20/1	12	31	A	32											0.00
	360						0.00	RECP - QUAD WALL B 2125	20/1	12	33	B	34											0.00
	360						0.00	RECP - QUAD WALL C 2125	20/1	12	35	C	36											0.00
	720						0.00	FACP PANEL 2125	20/1	12	37	A	38											0.00
	720						0.00	SEC BOOST PANEL 2125	20/1	12	39	B	40	-	-	-								0.00
	720						0.00	ACCESS CONT PANEL 2125	20/1	12	41	C	42	-	-	-								0.00
0	7200	0	0	0	6240	0	0.00	**TOTALS**								**TOTALS**	0	3600	1200	0	0	3120	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	10.8	1.2	0.0	0.0	9.4	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	10.4	1.2	0.0	0.0	9.4	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	4.3
B	7.9
C	9.1

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	21.4	59.3		21.0	58.2

PANEL: **SL2C**

Date: 1/8/2026 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — A/C... 10000

Mounting **SURFACE** — Main... **MCB (100A)** — Neutral **200%** — Voltage: **208Y/120V-3PH 4W** — Main... **100 AMPS** — Ground **Equipment Ground** — Lugs **SINGLE**

PANEL: **SL2D**

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - QUAD RACK 1129	20/1	12	1	A	2	12	20/1	RECP - QUAD RACK 3106		360						0.00
					1560		0.00	RECP - SPEC RACK 1129	30/2	10	3	B	4	10	30/2	RECP - SPEC RACK 3106						1560		0.00
					1560		0.00	--	--		5	C	6			--						1560		0.00
	360						0.00	RECP - QUAD WALL A 1129	20/1	12	7	A	8	12	20/1	RECP - QUAD WALL A 3106		360						0.00
	360						0.00	RECP - QUAD WALL B 1129	20/1	12	9	B	10	12	20/1	RECP - QUAD WALL B 3106		360						0.00
	360						0.00	RECP - QUAD WALL C 1129	20/1	12	11	C	12	12	20/1	RECP - QUAD WALL C 3106		360						0.00
	720						0.00	FACP PANEL 1129	20/1	12	13	A	14	12	20/1	FACP PANEL 3106		720						0.00
	720						0.00	SEC BOOST PANEL 1129	20/1	12	15	B	16	12	20/1	SEC BOOST PANEL 3106		720						0.00
	720						0.00	ACCESS CONT PANEL 1129	20/1	12	17	C	18	12	20/1	ACCESS CONT PANEL 3106		720						0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
	360						0.00	RECP - QUAD RACK 2125	20/1	12	25	A	26											0.00
					1560		0.00	RECP - SPEC RACK 2125	30/2	10	27	B	28											0.00
					1560		0.00	--	--		29	C	30											0.00
	360						0.00	RECP - QUAD WALL A 2125	20/1	12	31	A	32											0.00
	360						0.00	RECP - QUAD WALL B 2125	20/1	12	33	B	34											0.00
	360						0.00	RECP - QUAD WALL C 2125	20/1	12	35	C	36											0.00
	720						0.00	FACP PANEL 2125	20/1	12	37	A	38	10	30/3	SPD								0.00
	720						0.00	SEC BOOST PANEL 2125	20/1	12	39	B	40	-	-	-								0.00
	720						0.00	ACCESS CONT PANEL 2125	20/1	12	41	C	42	-	-	-								0.00
0	7200	0	0	0	9360	0	0.00	**TOTALS**								**TOTALS**	0	3600	0	0	0	3120	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	10.8	0.0	0.0	0.0	12.5	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	10.4	0.0	0.0	0.0	12.5	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	4.3
B	9.5
C	9.5

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	23.3	64.6		22.9	63.5

PANEL: **SL2D**

Date: 1/7/2026 — By: Designer

Job: GPISD Phase 3b — Job No. 240539 — A/C... 10000

Mounting **SURFACE** — Main... **MLO** — Neutral **200%** — Voltage: **208Y/120V-3PH 4W** — Main... **100 AMPS** — Ground **Equipment Ground** — Lugs **SINGLE**

PANEL: **SL2E**

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360						0.00	RECP - QUAD RACK 1129	20/1	12	1	A	2											0.00
					1560		0.00	RECP - SPEC RACK 1129	30/2	10	3	B	4											0.00
					1560		0.00	--	--		5	C	6											0.00
	360						0.00	RECP - QUAD WALL A 1129	20/1	12	7	A	8											0.00
	360						0.00	RECP - QUAD WALL B 1129	20/1	12	9	B	10											0.00
	360						0.00	RECP - QUAD WALL C 1129	20/1	12	11	C	12											0.00
	720						0.00	FACP PANEL 1129	20/1	12	13	A	14											0.00
	720						0.00	SEC BOOST PANEL 1129	20/1	12	15	B	16											0.00
	720						0.00	ACCESS CONT PANEL 1129	20/1	12	17	C	18											0.00
	720						0.00	RECP - SOUND RACK A	20/1	12	19	A	20											0.00
	720						0.00	RECP - SOUND RACK B	20/1	12	21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26	10	30/3	SPD								0.00
							0.00				27	B	28	-	-	-								0.00
							0.00				29	C	30	-	-	-								0.00
0	5040	0	0	0	3120	0	0.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	5.0	0.0	0.0	0.0	3.1	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	5.0	0.0	0.0	0.0	3.1	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	2.2
B	3.4
C	2.6

Panel Remarks:

*Input di...
**100% ...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	8.2	22.6		8.2	22.6

PANEL: **SL2E**

Date: 1/7/2026 — By: Designer

3

Plot Stamp:
1/8/2026 4:09:49 PM

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TX FIRM: BR 1608
HOUSTON, TX
713-366-0808

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN — NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT: Galena Park ISD
DATE: December 5, 2025 — PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL PANEL SCHEDULES

EP-710

ELECTRICAL PANEL SCHEDULES
EP-713
FOR BLUEBEAM LABELING/OCR:

0"
1"

Job: GPISD Phase 3b
Job No. 240539

Mounting: **SURFACE**
Main... **MLO**
Neutral **200%**

Voltage: **208Y/120V-3PH 4W**
Main... **225 AMPS**

AIC... **10000**
Ground **Equipment Ground**
Lugs **SINGLE**

PANEL: **L3D SECT 3**

ALL LOADS IN VA

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
							1.00	SPARE	20/1		1	A	2											0.00
							1.00	SPARE	20/1		3	B	4											0.00
							1.00	SPARE	20/1		5	C	6											0.00
							1.00	SPARE	20/1		7	A	8											0.00
							1.00	SPARE	20/1		9	B	10											0.00
							1.00	SPARE	20/1		11	C	12											0.00
							1.00	SPARE	20/1		13	A	14											0.00
							1.00	SPARE	20/1		15	B	16											0.00
							0.00				17	C	18											0.00
							0.00				19	A	20											0.00
							0.00				21	B	22											0.00
							0.00				23	C	24											0.00
							0.00				25	A	26											0.00
							0.00				27	B	28											0.00
							0.00				29	C	30											0.00
							0.00				31	A	32											0.00
							0.00				33	B	34											0.00
							0.00				35	C	36											0.00
							0.00				37	A	38											0.00
							0.00				39	B	40											0.00
							0.00				41	C	42											0.00
0	0	0	0	0	0	0	8.00	**TOTALS**								**TOTALS**	0	0	0	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	Design KVA

*Input div. factor per descriptions as required for calculations.
**100% of 1st 10 KVA, 50% of remaining.

Phase Load	
Ph	KVA
A	0.0
B	0.0
C	0.0

Panel Remarks:

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	8.0	22.2		4.0	11.1

PANEL: **L3D SECT 3**

Date: 1/7/2026 By: Designer

3

Plot Stamp:
1/7/2026 7:46:21 PM

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HOUSTON, TX
713-865-0008

LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
Galena Park, TX 77547
ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL PANEL SCHEDULES

EP-713

0"
1"

SITE PLAN GENERAL NOTES:

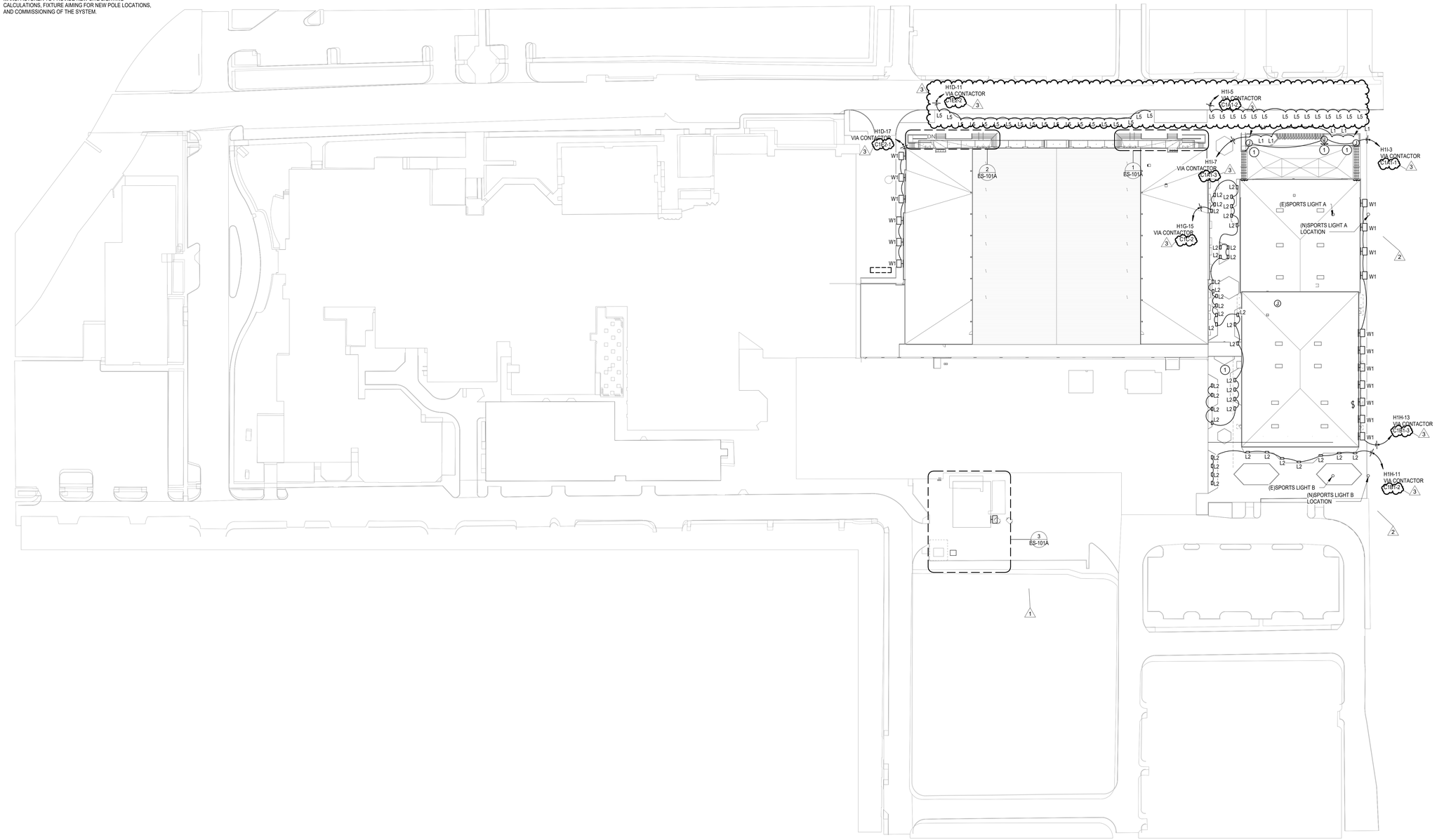
1. COORDINATE ROUTING FOR ALL UNDERGROUND ELECTRICAL BRANCH CIRCUITS AND FEEDERS WITH OTHER DISCIPLINES PRIOR TO TRENCHING.
2. UNLESS NOTED OTHERWISE ALL UNDERGROUND CONDUIT SHOWN ON THIS PLAN TO BE MINIMUM 1" IN SIZE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY INSTALLATION OF NEW WORK.
4. REFER TO LANDSCAPE ARCHITECTURAL DRAWING SHEET FOR EXACT LOCATION,QUANTITY AND SCHEDULE OF LANDSCAPE LIGHTING FIXTURES L1 TO L5. (2)

SITE PLAN KEYED NOTES:

(1) REMOTE EXTERIOR NEMA 3R DRIVER LOCATED IN RAISED PLANTER TO PROVIDE POWER TO STAIR NOSE LIGHTING, L4. CONTRACTOR SHALL COORDINATE CONDUIT PATHWAYS AND CONNECTIONS WITH ALL RELEVANT PARTIES FOR INSTALLATION IN CONCRETE STAIRS. (2)

(2) STUB UP CONDUIT AND CABLES FOR FUTURE CONNECTION TO CENTRAL PLANT AND MAKE SAFE. FIELD VERIFY FINAL LOCATION WITH PACKAGED CENTRAL PLANT REQUIREMENTS.

(3) EXISTING SPORTS LIGHT POLE TO BE DEMOLISHED AND LIGHTS AND CONTROLS BOXES TO BE RELOCATED TO NEW SPORTS LIGHT POLE. EXISTING CIRCUITS SHALL BE INTERCEPTED OUTSIDE OF AFFECTED CONSTRUCTION AREA. PROVIDE HANDHOLE AND EXTEND CIRCUIT AS REQUIRED TO NEW POLE LOCATION. CONTRACTOR SHALL COORDINATE WITH SPORTS LIGHTING MANUFACTURER FOR INSTALLATION REQUIREMENTS. CONTRACTOR SHALL RETAIN THE MANUFACTURER TO PROVIDE NEW SITE LIGHTING CALCULATIONS, FIXTURE AIMING FOR NEW POLE LOCATIONS, AND COMMISSIONING OF THE SYSTEM. (2)



1 **ELECTRICAL SITE PLAN**
SCALE: 1" = 50'-0"

ELECTRICAL SITE PLAN
ES-101
FOR BLUEBEAM LABELING/OCR:

PBK
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TX FIRM: BR 1608
HOUSTON, TX
713-865-0008

LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: OT
DRAWN BY: LT

ELECTRICAL SITE PLAN

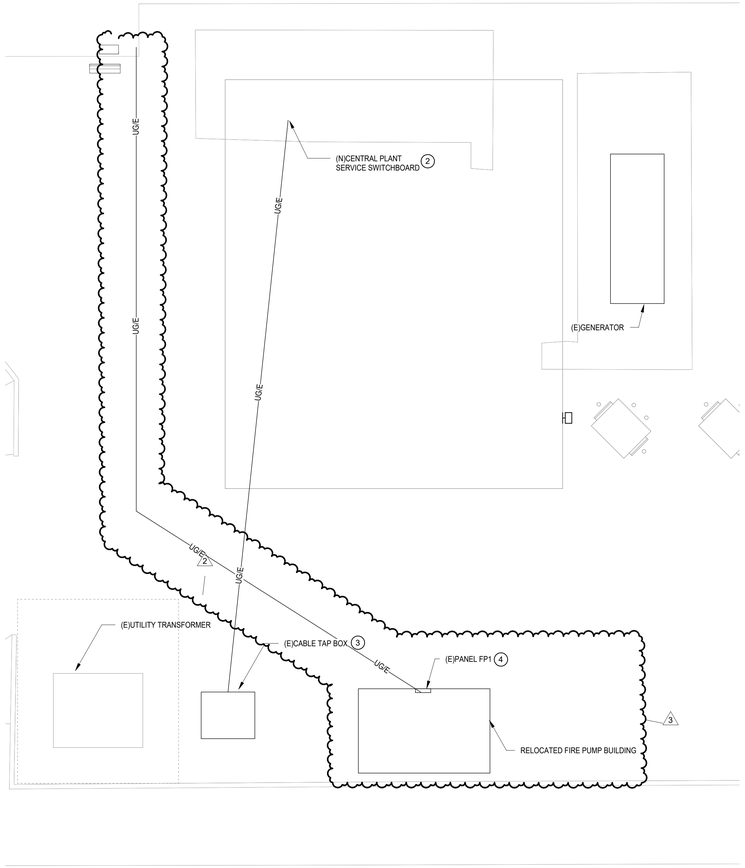
ES-101

Plot Stamp:
1/7/2026 7:46:27 PM

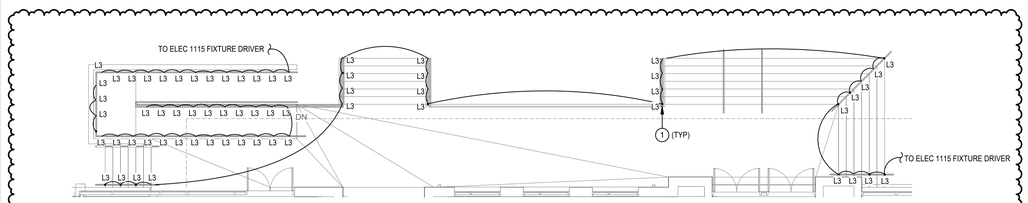
0"
1"

ELECTRICAL SITE PLAN - ENLARGED VIEWS
ES-101A

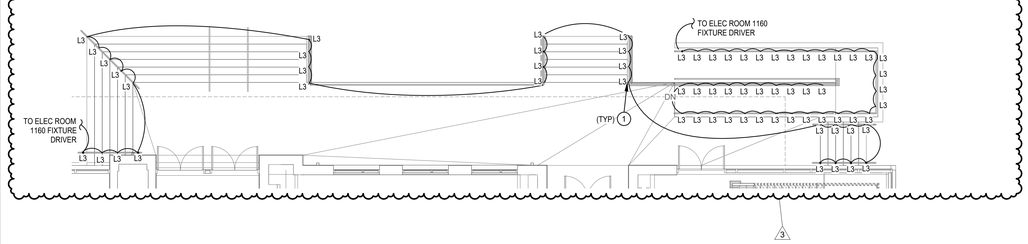
FOR BLUEBEAM LABELING/OCR:



3 ELECTRICAL SITE PLAN - Callout 3
SCALE: 1/8" = 1'-0"



2 ELECTRICAL SITE PLAN - Callout 2
SCALE: 1/8" = 1'-0"



1 ELECTRICAL SITE PLAN - Callout 1
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A2", ALL EXIT SIGNS ARE TYPE "X".
3. UNLESS OTHERWISE NOTED, TWO SWITCHES SIDE-BY-SIDE INDICATES MULTI-LEVEL SWITCHING. PROVIDE ONE-PIECE COVER PLATE FOR LIGHT SWITCHES. DESIGNATION NEXT TO SWITCHES INDICATES BRANCH CIRCUIT NUMBER. PROVIDE CONNECTION TO ALL FIXTURES IN THE ROOM.
4. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO POWER PACKS, WIRING, ETC. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. ALL EMERGENCY LIGHTING BRANCH CIRCUIT(S) SHALL BE 2#10, 1#10G, ½"C PROVIDE 20A UNSWITCHED BRANCH CIRCUIT (2#12, 1#12G, 3/4"C) FROM EMERGENCY PANEL TO ALL EXIT SIGNS IN THIS AREA. SEE PANEL SCHEDULE FOR CIRCUIT NUMBER(S).

   FIXTURES NOTED AS EMERGENCY SHALL BE PROVIDED POWER AS FOLLOWS:

   A. FOR FIXTURES IN ROOMS WITH BOTH NORMAL AND EMERGENCY FIXTURES A UL 924 EMERGENCY BYPASS DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES WITH EMERGENCY CIRCUIT INDICATED. THE NORMAL CIRCUIT SHALL BE CONNECTED TO AND MONITORED BY THE BYPASS DEVICE. UPON LOSS OF NORMAL POWER EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.

   B. FOR FIXTURES IN ROOMS WITH ONLY EMERGENCY FIXTURES A UL 1008 EMERGENCY TRANSFER DEVICE SHALL BE USED TO PROVIDE POWER TO THE EMERGENCY FIXTURES. BOTH THE EMERGENCY AND NORMAL CIRCUITS AS INDICATED SHALL BE CONNECTED TO TRANSFER DEVICE. UPON LOSS OF NORMAL POWER THE DEVICE SHALL TRANSFER TO THE EMERGENCY CIRCUIT AND EMERGENCY LIGHTS SHALL ILLUMINATE TO FULL.

6. REFER TO LANDSCAPE ARCHITECTURAL DRAWING SHEET FOR EXACT LOCATION,QUANTITY AND SCHEDULE OF LANDSCAPE LIGHTING FIXTURES L1 TO L5.

LIGHTING PLAN KEYED NOTES

1. PUCK LIGHT INSTALLED IN BOTTOM OF HANDRAIL. CONTRACTOR SHALL COORDINATE WITH SUPPLIER OF HANDRAIL FOR ALL INSTALLATION REQUIREMENTS.
2. STUB UP CONDUIT AND CABLES FOR FUTURE CONNECTION TO CENTRAL PLANT AND MAKE SAFE. FIELD VERIFY FINAL LOCATION WITH PACKAGED CENTRAL PLANT CONTRACTOR DERRYBERRY'S MECHANICAL, POC DARYL MARTIN dayrl.martin@derryberrys.com. WORK TO OCCUR SUMMER 2026.
3. EXISTING CABLE TAP BOX TO BE REPLACED, SEE ELECTRICAL RISER DIAGRAM E-502. WORK TO OCCUR SUMMER 2026.
4. EXISTING PANEL IN STANDALONE FIRE PUMP BUILDING TO BE PROVIDED WITH NEW FEEDER, SEE ELECTRICAL RISER DIAGRAM E-502

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HOUSTON, TX
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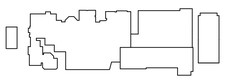
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN

NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
1	ADD 01	2025/12/10
2	ADD 03	2025/12/19
3	ADD 05	2026/01/08

CHECKED BY: OT

DRAWN BY: LT

ELECTRICAL SITE PLAN - ENLARGED VIEWS

ES-101A

Plot Stamp:
1/7/2026 7:46:30 PM

0"

1"

PLUMBING DEMO SITE PLAN
PD-101
FOR BLUEBEAM LABELING/OCR:

KEYNOTES - PLUMBING PLAN

1 REMOVE SAFELY AND SAFEKEEP EXISTING FIRE BREAK TANK, FIRE PUMP, VALVES, PIPE FITTINGS, PIPES, AND OTHER SALVAGEABLE MATERIALS RELATED TO FIRE PROTECTION TO BE REUSED. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR COMMENCING ANY WORK. CONTRACTOR SHALL SAFEGUARD AND ENSURE THE EXISTING FIRE STORAGE TANK AND FIRE PUMP ARE IN GOOD AND OPERABLE CONDITION PRIOR SHIFTING THEM TO NEW LOCATION.

2 EXISTING UNDERGROUND 8" FIRE LINE TO BE CAPPED/SEALED AND ABANDON AFTER DEMOLISHING EXISTING 8" FW LINE UNDER THE FIRE PUMP HOUSE.

3 EXISTING UNDERGROUND 8" FIRE LINE TO BE CAPPED/SEALED AND RECONNECT RISER TO NEW FIRE WATER LINE COMING FROM CTE SERVICE YARD.

4 EXISTING WATER METER BY CIVIL.

5 EXISTING BACKFLOW PREVENTER IN PIT BY CIVIL.

6 DEMO EXISTING UNDERGROUND 8" FIRE WATER LINE FROM THE MULTIPURPOSE FACILITY FOOT PRINT TO THE EXISTING CTE .

7 DISCONNECT EXISTING UNDERGROUND 4" GAS LINE AS SHOWN. TEMPORARILY CAP PIPING AT THIS LOCATION FOR REUSE IN NEW ROUTING AS SHOWN ON PS-101. DEMOLISHED PIPING TO BE DRAINED, CAPPED AT ENDS AND ABANDONED IN PLACE.

8 ENSURE EXISTING STORM DRAINAGE PIPING TO REMAIN IN OPERATION UNTIL ABANDONMENT AFTER DEMOLITION OF EXISTING HIGH SCHOOL.

KEYNOTES - PLUMBING PLAN

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

GENERAL NOTES - PLUMBING PLAN

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

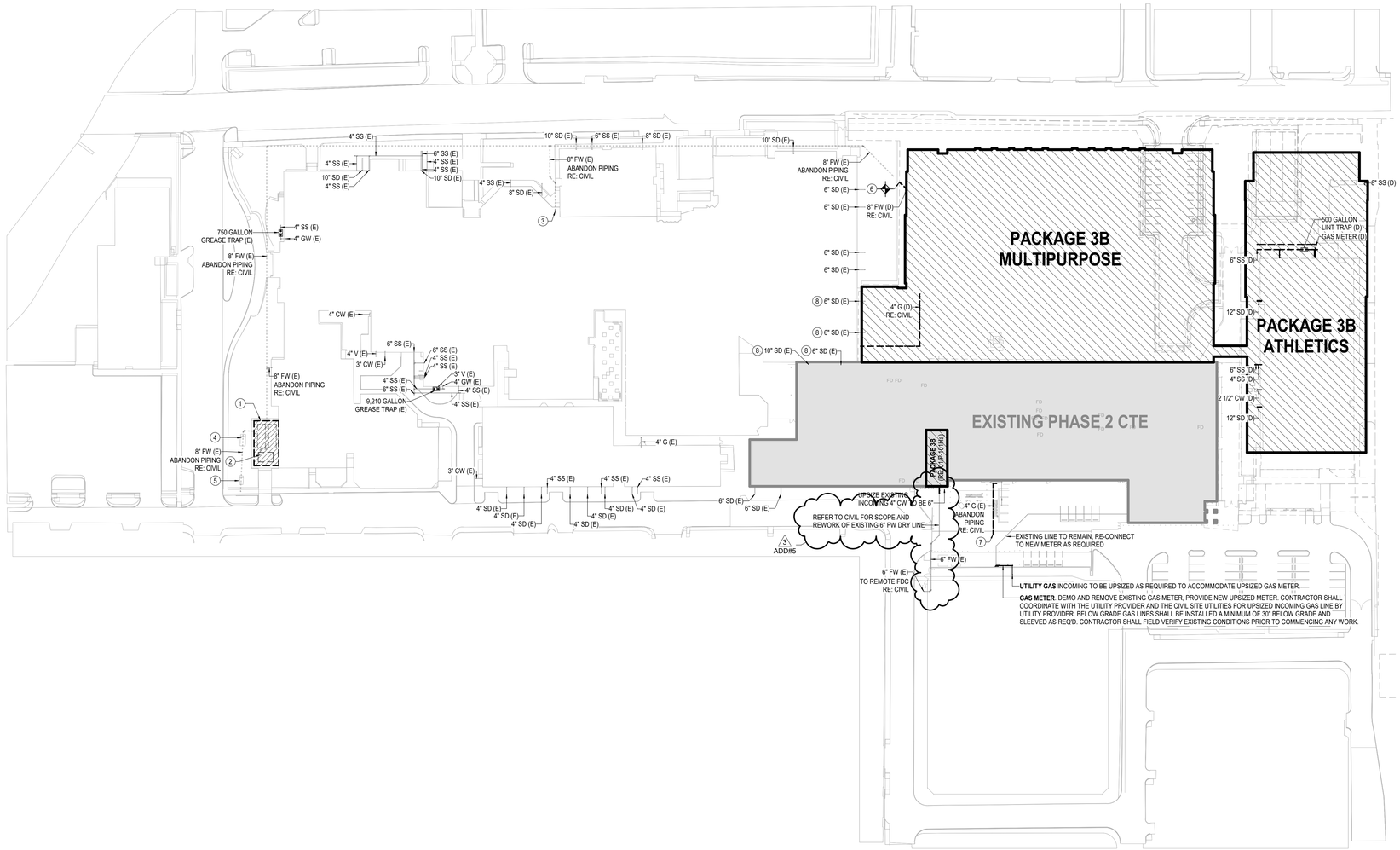
L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.



1 PLUMBING DEMO SITE PLAN
1" = 60'-0"

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LEAF ENGINEERS

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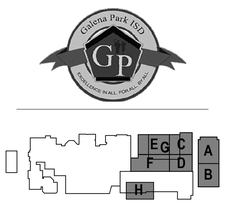
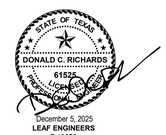


KEY PLAN
NORTH: PLAN TRUE



December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	PACKAGE 3B - ADD 03	12/19/2025
3	PACKAGE 3B - ADD 05	01/08/2026

CHECKED BY: SC
DRAWN BY: SC

PLUMBING DEMO SITE PLAN

PD-101

Plot Stamp:
1/7/2026 4:43:09 PM

PLUMBING SITE PLAN
PS-101
FOR BLUEBEAM LABELING/OCR:

0"
1"

KEYNOTES - PLUMBING PLAN

1 SHIFT THE EXISTING FIRE PUMP AT THE SERVICE YARD. RE-USE THE SALVAGEABLE PIPING ACCESSORIES, FITTINGS, AND PIPES. REMOVE PIPE BOLLARDS FOR FIRE PUMP HOUSE'S DOOR ACCESS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION PRIOR COMMENCING ANY WORK.

2 SHIFT THE EXISTING FIRE STORAGE TANK. RE-USE THE SALVAGEABLE PIPING ACCESSORIES, FITTINGS, AND PIPES. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION PRIOR COMMENCING ANY WORK.

3 RE-ROUTE GAS PIPING AS SHOWN TO AVOID THE NEW MECHANICAL YARD/ CHILLER.

4 EXISTING UNDERGROUND 8" FIRE LINE TO BE CAPPED/SEALED AND ABANDON UNDERGROUND PIPING.

5 EXISTING UNDERGROUND 8" FIRE LINE TO BE CAPPED/SEALED AND ABANDON AFTER DEMOLISHING EXISTING 8" FW LINE UNDER THE FIRE PUMP HOUSE.

6 EXISTING UNDERGROUND 8" FIRE LINE TO BE CAPPED/SEALED AND RECONNECT RISER TO NEW FIRE WATER LINE COMING FROM CTE SERVICE YARD.

9 CONNECT NEW GAS LINE TO EXISTING.

KEYNOTES - PLUMBING PLAN

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

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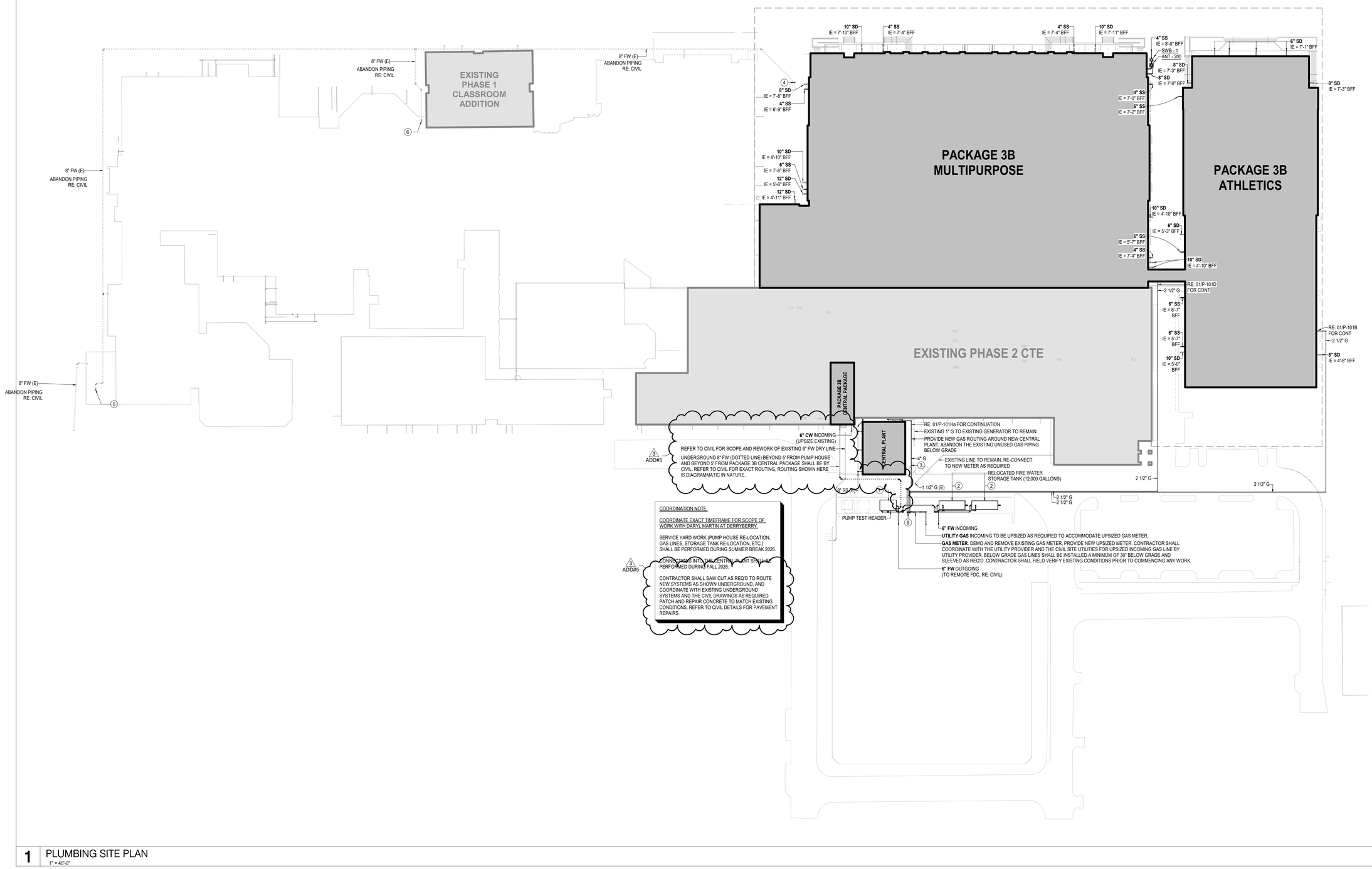
N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.



1 PLUMBING SITE PLAN
1" = 40'-0"

Plot Stamp:
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LEAF ENGINEERS

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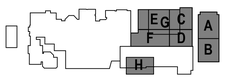


KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	PACKAGE 3B - ADD 03	12/19/2025
3	PACKAGE 3B - ADD 05	01/08/2026

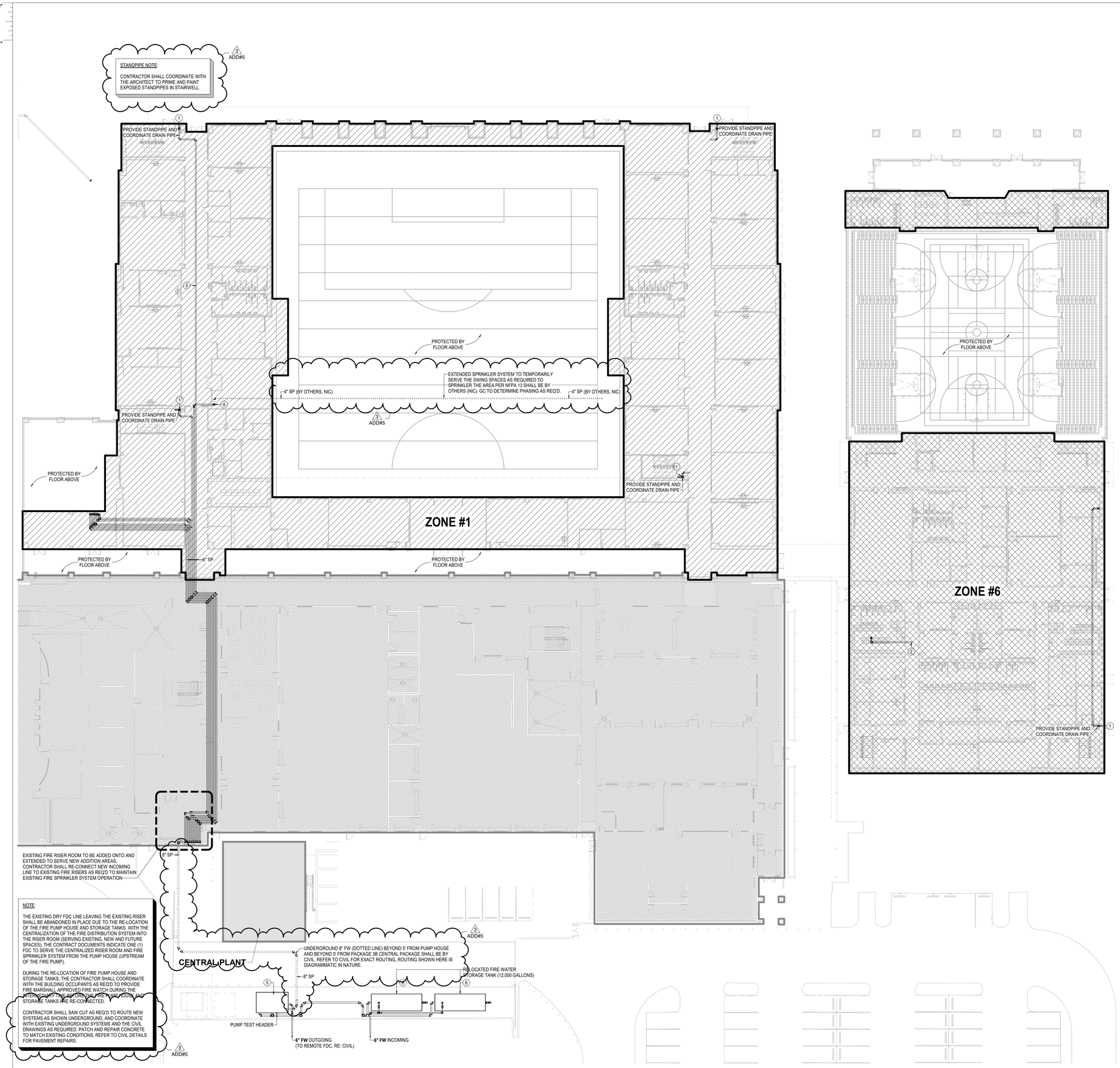
CHECKED BY: SC
DRAWN BY: SC

PLUMBING SITE PLAN

PS-101

1ST FLOOR FIRE PROTECTION PLAN
PF-101
FOR BLUEBEAM LABELING/OCR:

0"
1"



1 1ST FLOOR FIRE PROTECTION PLAN
1" = 20'-0"

FIRE PROTECTION GENERAL NOTES

A. ALL FIRE SPRINKLER HEADS/PIPING/EQUIPMENT NOTED ON THE DRAWINGS "TO REMAIN" SHALL BE FIELD VERIFIED OF THEIR EXACT LOCATIONS BY THE FIRE SPRINKLER CONTRACTOR PRIOR TO COMMENCING ANY WORK.

B. ALL EXISTING FIRE PROTECTION SYSTEMS NOTED ON THE DRAWINGS "TO REMAIN" SHALL REMAIN IN OPERATION DURING ALL PHASES OF CONSTRUCTION. NO SYSTEMS ARE TO BE SHUTDOWN WITHOUT AUTHORIZATION FROM THE OWNER AND LOCAL FIRE DISTRICT.

C. ALL AREAS OF THE BUILDING(S) SHALL BE FULLY SPRINKLERED IN ACCORDANCE WITH SPECIFICATIONS AND CODE REQUIREMENTS.

D. SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY A STATE LICENSED FIRE PROTECTION CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE, JURISDICTIONAL, GOVERNMENTAL AGENCIES AND NFPA 13 (LATEST ADDITION). SPRINKLER SYSTEM MUST ALSO BE APPROVED BY OWNER AND OWNER'S FIRE INSURANCE UNDERWRITER.

E. SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED BY THE CONTRACTOR FOR ENGINEER, OWNER, OWNER'S FIRE INSURANCE UNDERWRITER, AND FIRE MARSHALL'S APPROVAL.

F. THE LOCATION OF FIRE SPRINKLER HEADS SHALL BE COORDINATED WITH THE NEW CEILING LAYOUTS AND ALL OTHER TRADES FOR COMPLETE FIRE PROTECTION COVERAGE OF ALL AREAS. PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION.

G. HEADS SHALL BE SYMMETRICALLY LOCATED IN CENTER OF CEILING PANELS. PROVIDE PENDENT AND/OR UPRIGHT TYPE SPRINKLER HEAD WHERE REQUIRED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT THE LOCATIONS OF THE SPRINKLER HEADS PRIOR TO INSTALLATION. COORDINATE LAYOUT WITH CEILING OR SOFFIT LIGHT FIXTURES, HVAC DIFFUSERS, RETURNS, ETC.

H. CONTRACTOR TO DESIGN SPRINKLER SYSTEM AS REQUIRED TO ACCOMODATE NEW FIXTURES, PARTITIONS, SOFFITS, FURR DOWNS, CEILING HEIGHTS, ETC.

I. FLOW AND TAMPER SWITCHES ARE TO BE PROVIDED ON THE FIRE SPRINKLER SYSTEM. ALL ELECTRICAL WIRING TO BE PROVIDED BY ELECTRICAL CONTRACTOR.

J. LOCATE INSPECTOR TEST DRAIN(S) AT EXTERIOR WALL AND AWAY FROM FOOT TRAFFIC AND FRONT ENTRY AREAS IN COORDINATION WITH THE ARCHITECTURAL PLANS AND BUILDING CONDITIONS PRIOR TO FINAL INSTALL.

K. CONTRACTOR SHALL COORDINATE WITH ARCHITECT'S PLANS, WHERE APPLICABLE, TO PROVIDE INTERIOR CLASS I STANDPIPE TYPE 2.5" HOSE VALVES PLACED STRATEGICALLY IN BUILDING AREAS MOST AFFECTED BY INCREASED EXIT TRAVEL DISTANCE, TO GIVE RESPONDING FIRE DEPARTMENT ACCESS TO WATER SUPPLY DEEP INTO THE BUILDING'S INTERIOR, AND REDUCE INTERIOR HOSE LENGTHS TO 250 FT.

L. THE FIRE RISER AND/OR FIRE PUMP ROOM LAYOUT REQUIREMENTS NOTED ON THESE PLANS SHALL BE ADHERED TO AS CLOSELY AS POSSIBLE BUT SHALL NOT SUPERSEDE CODE CONSTRAINTS AND/OR REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. WHERE CODE OR AHJ REQUIREMENTS SUPERSEDE ITEMS SHOWN ON THIS PLAN, CONTRACTOR SHALL INCLUDE ALL ASSOCIATED PROVISIONS IN THE BID, AND SHALL MAKE THEM AT NO ADDITIONAL COST TO THE OWNER. PROPOSED DEVIATIONS FROM THIS PLAN SHALL BE SUBJECT TO THE ARCHITECT'S AND ENGINEER'S REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.

M. REFER TO OWNER'S CRITERIA FOR ADDITIONAL INFORMATION.

N. REFER TO ARCHITECT FOR SPRINKLER SYSTEM DESIGN OCCUPANCY.

FIRE PROTECTION PIPE MATERIAL SCHEDULE

PIPING SYSTEM	BELOW GRADE	ABOVE GRADE
FIRE PROTECTION	SCH 40 BLACK STEEL	SCH 40 BLK STEEL PIPE ≤ 2.5" / PIPE ≥ 2.5" SCH 10 BLK STEEL

FIRE PROTECTION PROPOSED ZONE LEGEND

AREA (SQ FT)	ZONE
49,707	ZONE #1
39,895	ZONE #2
50,412	ZONE #3
44,742	ZONE #4
51,327	ZONE #5
27,303	ZONE #6

KEYNOTES - PLUMBING PLAN

1 STANDPIPE WITH 2.5" FIRE HOSE VALVE (COMPONENTS SHALL BE LOCATED OUTSIDE STAIRWELL PATH OF EGRESS). PROVIDE 4" VICTAULIC UMC ASSEMBLY AS REQUIRED. ROUTE DRAIN LINE TO EXTERIOR IN CONCEALED MANNER AS REQUIRED, COORDINATE WITH ARCHITECTURAL STAIR ELEMENTS. AS PER COORDINATION WITH THE FIRE MARSHALL, A MANUAL STANDPIPE IS APPROVED AND THE DESIGN INTENT IN ACCORDANCE WITH NFPA REQUIREMENTS.

2 6" FIRE LINE TO SERVE ZONE #6.

3 6" FIRE LINE TO SERVE ZONE #1.

4 6" FIRE LINE UP.

5 SHIFT THE EXISTING FIRE PUMP AT THE SERVICE YARD. RE-USE THE SALVAGEABLE PIPING ACCESSORIES, FITTINGS, AND PIPES. REMOVE PIPE BOLLARDS FOR FIRE PUMP HOUSES DOOR ACCESS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION PRIOR COMMENCING ANY WORK.

6 SHIFT THE EXISTING FIRE STORAGE TANK. RE-USE THE SALVAGEABLE PIPING ACCESSORIES, FITTINGS, AND PIPES. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION PRIOR COMMENCING ANY WORK.

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LEAF ENGINEERS

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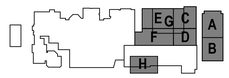


KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	PACKAGE 3B - ADD 03	12/19/2025
3	PACKAGE 3B - ADD 05	01/08/2026

CHECKED BY: SC
DRAWN BY: SC

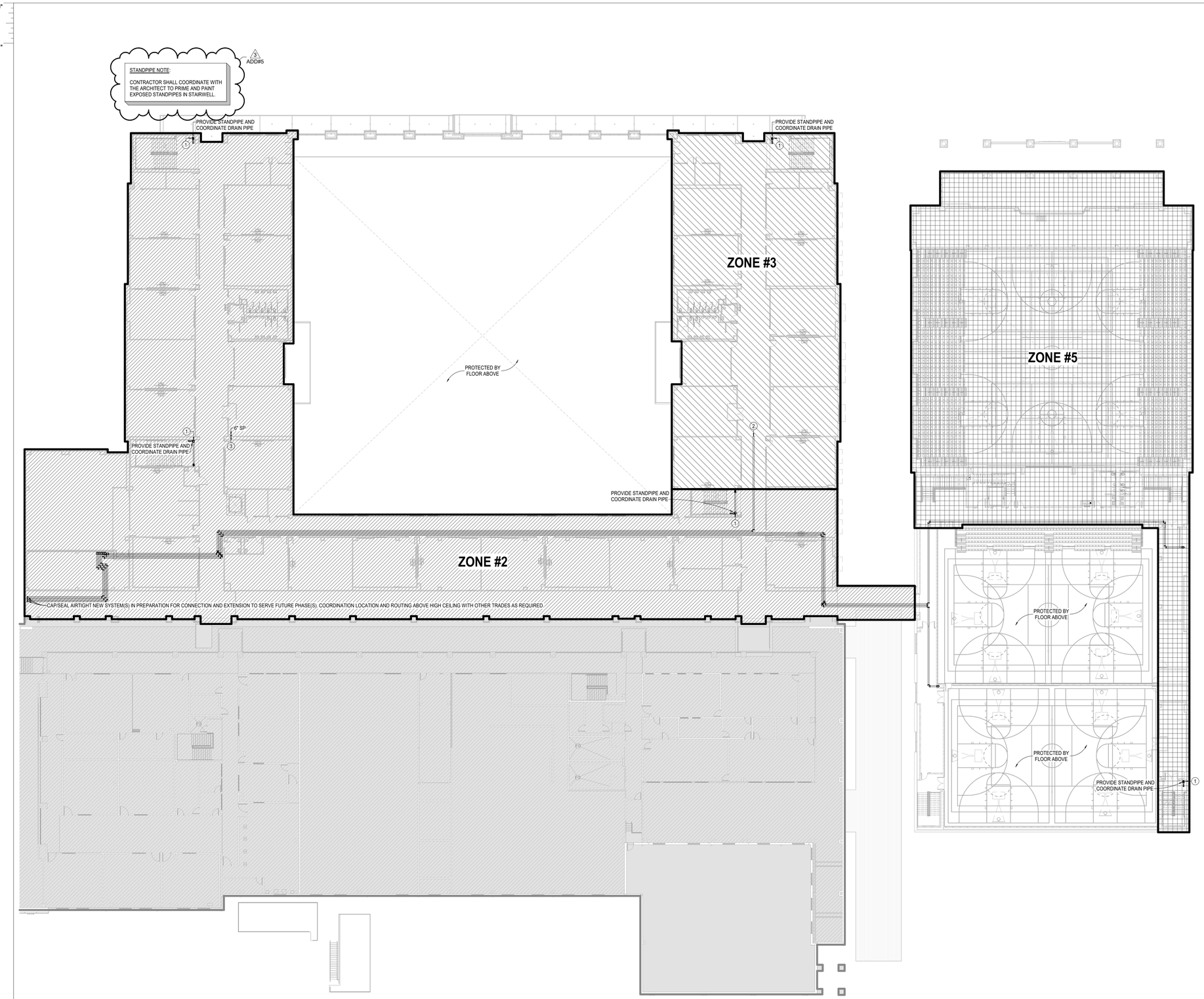
1ST FLOOR FIRE PROTECTION PLAN

PF-101

Plot Stamp:
1/7/2026 4:43:36 PM

2ND FLOOR FIRE PROTECTION PLAN
PF-102
FOR BLUEBEAM LABELING/OCR:

0"
1"



1 2ND FLOOR FIRE PROTECTION PLAN
1" = 20'-0"

FIRE PROTECTION GENERAL NOTES

A. ALL FIRE SPRINKLER HEADS/PIPING/EQUIPMENT NOTED ON THE DRAWINGS "TO REMAIN" SHALL BE FIELD VERIFIED OF THEIR EXACT LOCATIONS BY THE FIRE SPRINKLER CONTRACTOR PRIOR TO COMMENCING ANY WORK.

B. ALL EXISTING FIRE PROTECTION SYSTEMS NOTED ON THE DRAWINGS "TO REMAIN" SHALL REMAIN IN OPERATION DURING ALL PHASES OF CONSTRUCTION. NO SYSTEMS ARE TO BE SHUTDOWN WITHOUT AUTHORIZATION FROM THE OWNER AND LOCAL FIRE DISTRICT.

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E. SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED BY THE CONTRACTOR FOR ENGINEER, OWNER, OWNER'S FIRE INSURANCE UNDERWRITER, AND FIRE MARSHALL'S APPROVAL.

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K. CONTRACTOR SHALL COORDINATE WITH ARCHITECT'S PLANS, WHERE APPLICABLE, TO PROVIDE INTERIOR CLASS I STANDPIPE TYPE 2.5" HOSE VALVES PLACED STRATEGICALLY IN BUILDING AREAS MOST AFFECTED BY INCREASED EXIT TRAVEL DISTANCE, TO GIVE RESPONDING FIRE DEPARTMENT ACCESS TO WATER SUPPLY DEEP INTO THE BUILDING'S INTERIOR, AND REDUCE INTERIOR HOSE LENGTHS TO 250 FT.

L. THE FIRE RISER AND/OR FIRE PUMP ROOM LAYOUT REQUIREMENTS NOTED ON THESE PLANS SHALL BE ADHERED TO AS CLOSELY AS POSSIBLE BUT SHALL NOT SUPERSEDE CODE CONSTRAINTS AND/OR REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. WHERE CODE OR AHJ REQUIREMENTS SUPERSEDE ITEMS SHOWN ON THIS PLAN, CONTRACTOR SHALL INCLUDE ALL ASSOCIATED PROVISIONS IN THE BID, AND SHALL MAKE THEM AT NO ADDITIONAL COST TO THE OWNER. PROPOSED DEVIATIONS FROM THIS PLAN SHALL BE SUBJECT TO THE ARCHITECT'S AND ENGINEER'S REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.

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2 6" FIRE LINE TO SERVE ZONE #3.

3 6" FIRE LINE UP.

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LEAF ENGINEERS

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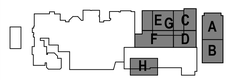
ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	PACKAGE 3B - ADD 03	12/19/2025
3	PACKAGE 3B - ADD 05	01/08/2026

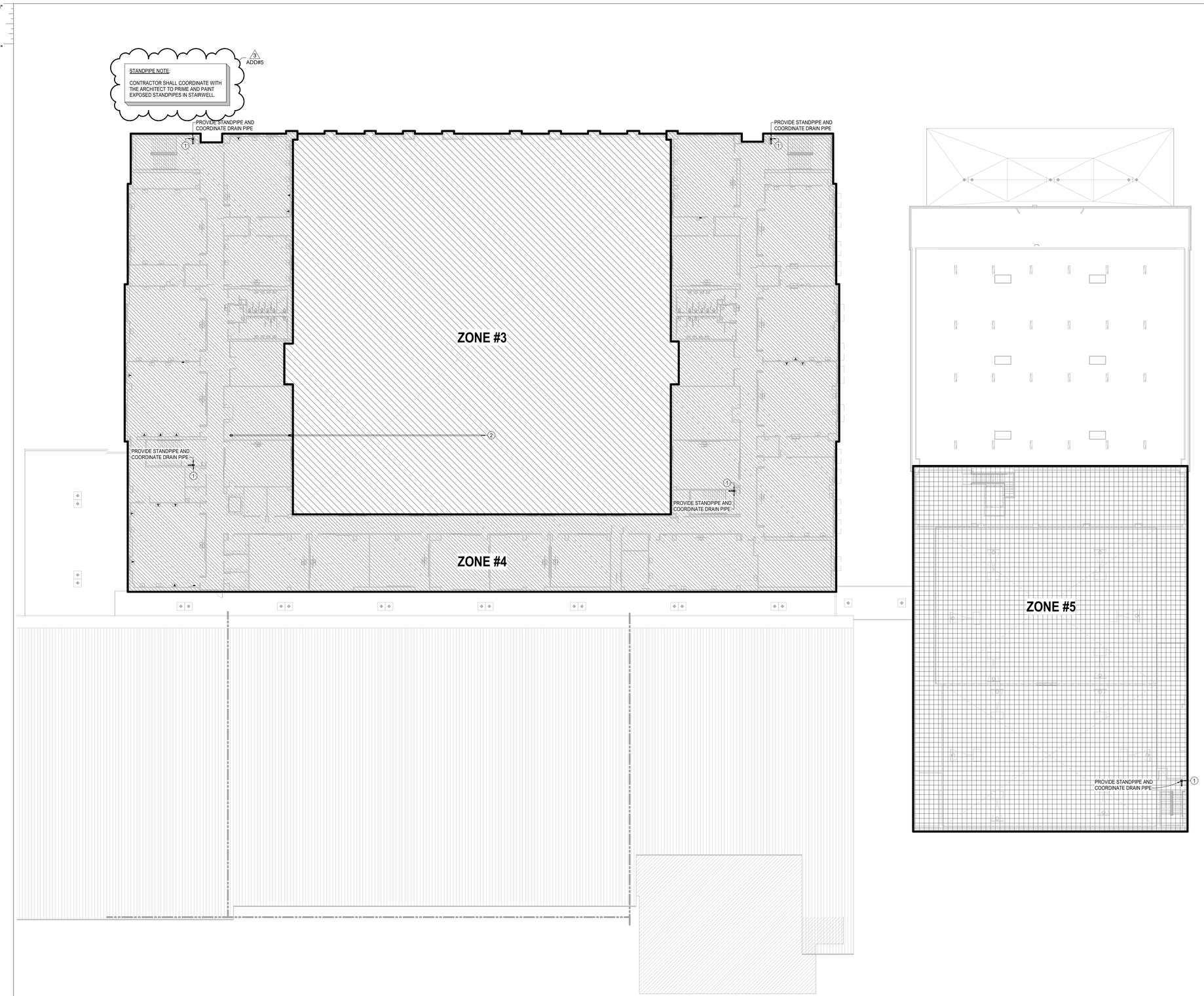
CHECKED BY: SC
DRAWN BY: SC

2ND FLOOR FIRE PROTECTION PLAN

PF-102

Plot Stamp:
1/7/2026 4:43:44 PM

3RD FLOOR FIRE PROTECTION PLAN
PF-103
FOR BLUEBEAM LABELING/OCR:



1 3RD FLOOR FIRE PROTECTION PLAN
1" = 20'-0"

FIRE PROTECTION GENERAL NOTES

A. ALL FIRE SPRINKLER HEADS/PIPING/EQUIPMENT NOTED ON THE DRAWINGS "TO REMAIN" SHALL BE FIELD VERIFIED OF THEIR EXACT LOCATIONS BY THE FIRE SPRINKLER CONTRACTOR PRIOR TO COMMENCING ANY WORK.

B. ALL EXISTING FIRE PROTECTION SYSTEMS NOTED ON THE DRAWINGS "TO REMAIN" SHALL REMAIN IN OPERATION DURING ALL PHASES OF CONSTRUCTION. NO SYSTEMS ARE TO BE SHUTDOWN WITHOUT AUTHORIZATION FROM THE OWNER AND LOCAL FIRE DISTRICT.

C. ALL AREAS OF THE BUILDING(S) SHALL BE FULLY SPRINKLERED IN ACCORDANCE WITH SPECIFICATIONS AND CODE REQUIREMENTS.

D. SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY A STATE LICENSED FIRE PROTECTION CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE, JURISDICTIONAL, GOVERNMENTAL AGENCIES AND NFPA 13 (LATEST ADDITION). SPRINKLER SYSTEM MUST ALSO BE APPROVED BY OWNER AND OWNER'S FIRE INSURANCE UNDERWRITER.

E. SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED BY THE CONTRACTOR FOR ENGINEER, OWNER, OWNER'S FIRE INSURANCE UNDERWRITER, AND FIRE MARSHALL'S APPROVAL.

F. THE LOCATION OF FIRE SPRINKLER HEADS SHALL BE COORDINATED WITH THE NEW CEILING LAYOUTS AND ALL OTHER TRADES FOR COMPLETE FIRE PROTECTION COVERAGE OF ALL AREAS. PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION.

G. HEADS SHALL BE SYMMETRICALLY LOCATED IN CENTER OF CEILING PANELS. PROVIDE PENDENT AND/OR UPRIGHT TYPE SPRINKLER HEAD WHERE REQUIRED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT THE LOCATIONS OF THE SPRINKLER HEADS PRIOR TO INSTALLATION. COORDINATE LAYOUT WITH CEILING OR SOFFIT LIGHT FIXTURES, HVAC DIFFUSERS, RETURNS, ETC.

H. CONTRACTOR TO DESIGN SPRINKLER SYSTEM AS REQUIRED TO ACCOMODATE NEW FIXTURES, PARTITIONS, SOFFITS, FURR DOWNS, CEILING HEIGHTS, ETC.

I. FLOW AND TAMPER SWITCHES ARE TO BE PROVIDED ON THE FIRE SPRINKLER SYSTEM. ALL ELECTRICAL WIRING TO BE PROVIDED BY ELECTRICAL CONTRACTOR.

J. LOCATE INSPECTOR TEST DRAIN(S) AT EXTERIOR WALL AND AWAY FROM FOOT TRAFFIC AND FRONT ENTRY AREAS IN COORDINATION WITH THE ARCHITECTURAL PLANS AND BUILDING CONDITIONS PRIOR TO FINAL INSTALL.

K. CONTRACTOR SHALL COORDINATE WITH ARCHITECT'S PLANS, WHERE APPLICABLE, TO PROVIDE INTERIOR CLASS I STANDPIPE TYPE 2.5" HOSE VALVES PLACED STRATEGICALLY IN BUILDING AREAS MOST AFFECTED BY INCREASED EXIT TRAVEL DISTANCE, TO GIVE RESPONDING FIRE DEPARTMENT ACCESS TO WATER SUPPLY DEEP INTO THE BUILDING'S INTERIOR, AND REDUCE INTERIOR HOSE LENGTHS TO 250 FT.

L. THE FIRE RISER AND/OR FIRE PUMP ROOM LAYOUT REQUIREMENTS NOTED ON THESE PLANS SHALL BE ADHERED TO AS CLOSELY AS POSSIBLE BUT SHALL NOT SUPERSEDE CODE CONSTRAINTS AND/OR REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. WHERE CODE OR AHJ REQUIREMENTS SUPERSEDE ITEMS SHOWN ON THIS PLAN, CONTRACTOR SHALL INCLUDE ALL ASSOCIATED PROVISIONS IN THE BID, AND SHALL MAKE THEM AT NO ADDITIONAL COST TO THE OWNER. PROPOSED DEVIATIONS FROM THIS PLAN SHALL BE SUBJECT TO THE ARCHITECT'S AND ENGINEER'S REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.

M. REFER TO OWNER'S CRITERIA FOR ADDITIONAL INFORMATION.

N. REFER TO ARCHITECT FOR SPRINKLER SYSTEM DESIGN OCCUPANCY.

FIRE PROTECTION PIPE MATERIAL SCHEDULE

PIPING SYSTEM	BELOW GRADE	ABOVE GRADE
FIRE PROTECTION	SCH 40 BLACK STEEL	SCH 40 BLK STEEL PIPE ≤ 2.5" / PIPE ≥ 2.5" SCH 10 BLK STEEL

FIRE PROTECTION PROPOSED ZONE LEGEND

AREA (SQ FT)	ZONE
49,707	ZONE #1
39,895	ZONE #2
50,412	ZONE #3
44,742	ZONE #4
51,327	ZONE #5
27,303	ZONE #6

KEYNOTES - PLUMBING PLAN

1 STANDPIPE WITH 2.5" FIRE HOSE VALVE (COMPONENTS SHALL BE LOCATED OUTSIDE STAIRWELL PATH OF EGRESS). PROVIDE 4" VICTAULIC UMC ASSEMBLY AS REQUIRED. ROUTE DRAIN LINE TO EXTERIOR IN CONCEALED MANNER AS REQUIRED. COORDINATE WITH ARCHITECTURAL STAIR ELEMENTS. AS PER COORDINATION WITH THE FIRE MARSHALL, A MANUAL STANDPIPE IS APPROVED AND THE DESIGN INTENT IN ACCORDANCE WITH NFPA REQUIREMENTS.

2 6" FIRE LINE TO SERVE ZONE #3.

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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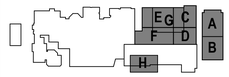
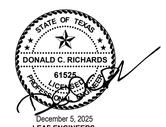
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE



December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
3	PACKAGE 3B - ADD 05	01/08/2026

CHECKED BY: SC
DRAWN BY: SC

3RD FLOOR FIRE PROTECTION PLAN

PF-103

Plot Stamp:
1/7/2026 4:43:48 PM

0"
1"

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

FOR BLUEBEAM LABELING/OCR:
PU-101E

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 10" STORM, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.

2 8" STORM, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.

3 8" STORM PIPE DOWN FROM ABOVE.

4 10" STORM PIPE DOWN FROM ABOVE.

5 4" SANITARY WASTE, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.

6 4" WASTE DOWN FROM DOUBLE EXTERIOR CLEANOUT TO GRADE.

7 2" WASTE DOWN FROM ABOVE.

8 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

9 3" WASTE DOWN AND 2" VENT UP.

10 4" WASTE DOWN FROM ABOVE.

11 2" DRAIN DOWN FROM ABOVE, PROVIDE TRAP PRIMER.

12 2" WASTE DOWN AND 2" VENT UP.

13 3" WASTE DOWN FROM ABOVE.

14 4" WASTE DOWN FROM FLOOR CLEANOUT.

15 3" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

16 4" WASTE DOWN AND 2" VENT UP.

17 4" DRAIN DOWN FROM ABOVE, PROVIDE TRAP PRIMER.

18 2" VENT UP.

1 1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

E

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	PACKAGE 3B - ADD 03	12/19/2025
3	PACKAGE 3B - ADD 05	01/08/2026

CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

PU-101E

Plot Stamp:
1/7/2026 4:43:51 PM

0"
1"

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

FOR BLUEBEAM LABELING/OCR:

KEYNOTES - PLUMBING PLAN

1 10" STORM, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.
2 12" STORM, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.
3 10" STORM PIPE DOWN FROM ABOVE.
4 6" STORM PIPE DOWN FROM ABOVE.
5 12" STORM PIPE DOWN FROM ABOVE.
6 8" STORM PIPE DOWN FROM ABOVE.
7 4" WASTE DOWN FROM FLOOR CLEANOUT.
8 4" WASTE DOWN AND 2" VENT UP.
9 6" SANITARY WASTE, I.E. AS NOTED ON PLAN, RE: CIVIL DRAWING FOR CONTINUATION.
10 4" WASTE DOWN FROM DOUBLE EXTERIOR CLEANOUT TO GRADE.
11 4" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.
12 4" WASTE DOWN FROM ABOVE.
13 2" WASTE DOWN FROM ABOVE.
14 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

KEYNOTES - PLUMBING PLAN

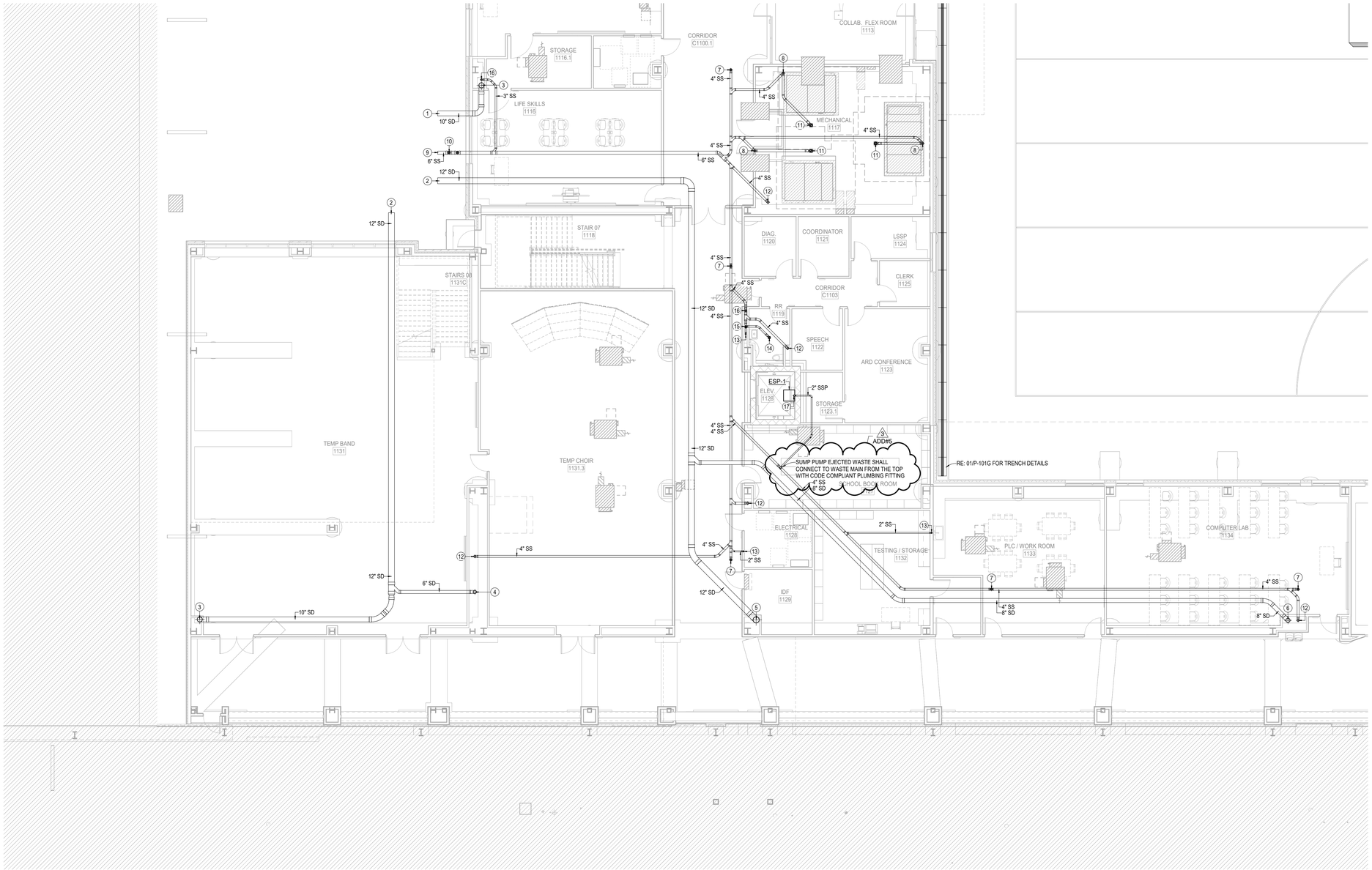
15 3" WASTE DOWN AND 2" VENT UP.
16 3" WASTE DOWN FROM ABOVE.
17 2" WASTE (PUMPED) FROM BELOW FLOOR ELEVATOR SUMP PUMP (ESP).

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.
B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.
C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.
D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.
F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.
G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.
H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.
I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

GENERAL NOTES - PLUMBING PLAN

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.
K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.
L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.
M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.
N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.
O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.
P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.



1 1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

F

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
SURVEYOR

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	PACKAGE 3B - ADD 03	12/19/2025
3	PACKAGE 3B - ADD 05	01/08/2026

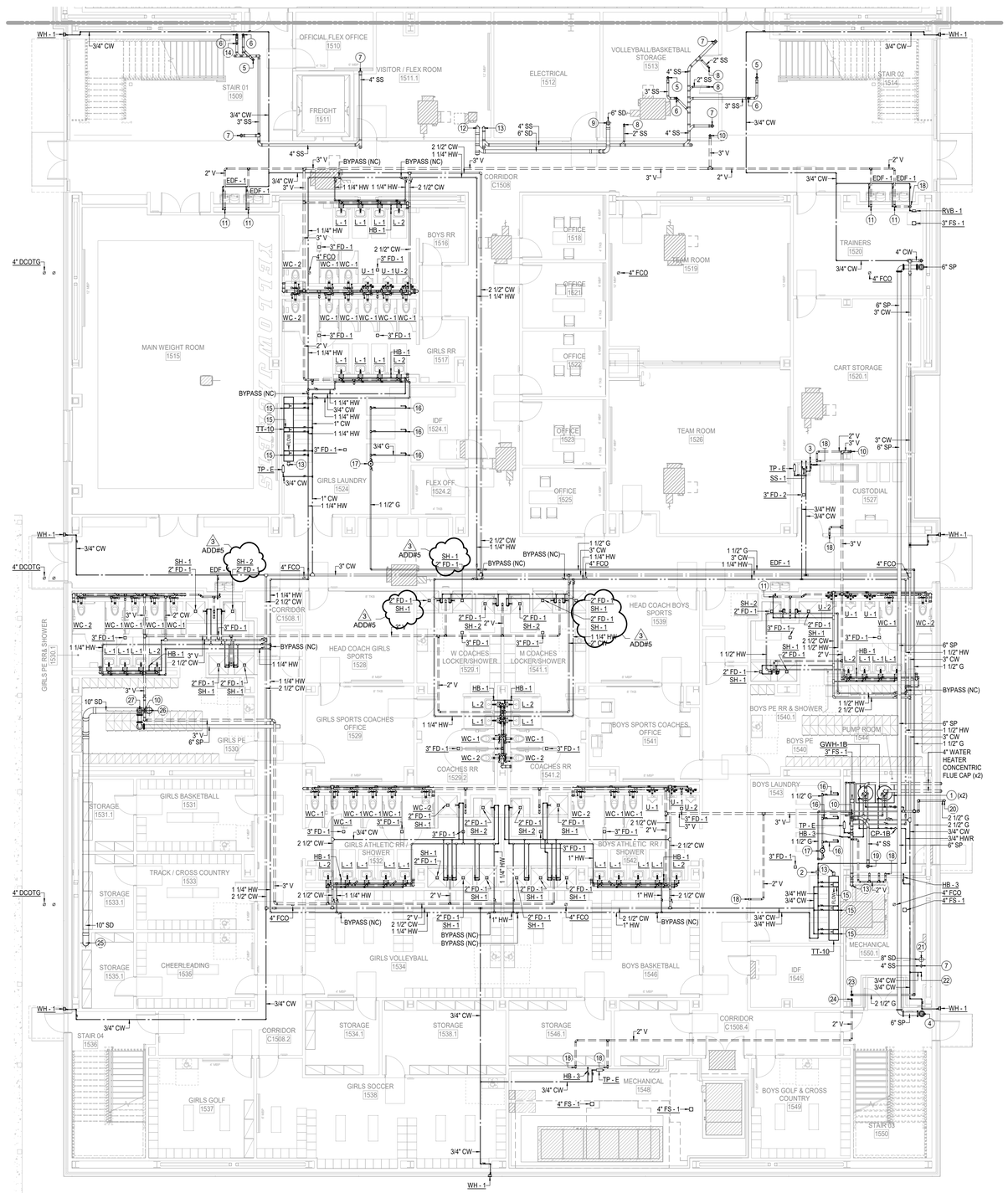
CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING UNDERFLOOR PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

PU-101F

1ST FLOOR PLUMBING PLAN - AREA B NEW GYM FLOOR PLAN
P-101B
FOR BLUEBEAM LABELING/DOCR:

0"
1"



GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 DOMESTIC GAS WATER HEATER AND CONCENTRIC VENT KIT SHALL BE PROVIDED BY PLUMBING CONTRACTOR. REFER TO PLUMBING DRAWINGS AND SPECIFICATIONS. PROVIDE 2" THICK, INSTALLED R-8, FIBERGLASS INSULATION FOR METAL INTAKE PIPING FOR CONDENSATION PREVENTION. REFER TO PLUMBING DETAILS FOR SEALED COMBUSTION CONCENTRIC VENT DETAIL. PROVIDE 4" WATER HEATER CONCENTRIC FLUE CAP (x2) AT EXTERIOR PENETRATION. CONTRACTOR SHALL REFER TO MANUFACTURER'S REQUIREMENTS FOR EXACT INSTALLATION NEEDS PRIOR TO COMMENCING ANY INSTALL WORK.

2 PROVIDE HOT WATER BALANCING VALVE, SET MINIMUM FLOW OF 1.5 GPM.

3 3/4" COLD WATER DOWN TO SERVE CHEMICAL DISPENSING UNIT (FURNISHED BY OTHERS). CONTRACTOR SHALL PROVIDE LOCAL AHJ-APPROVED METHOD OF BACKFLOW PROTECTION AS REQUIRED FOR THE UNIT, REFER TO UNIT INSTALLATION REQUIREMENTS FOR ADDITIONAL INFORMATION.

4 STANDPIPE WITH 2.5" FIRE HOSE VALVE (COMPONENTS SHALL BE LOCATED OUTSIDE STAIRWELL PATH OF EGRESS). PROVIDE 4" VICTAULIC UMC ASSEMBLY AS REQUIRED. ROUTE DRAIN LINE TO EXTERIOR IN CONCEALED MANNER AS REQUIRED, COORDINATE WITH ARCHITECTURAL STAIR ELEMENTS. AS PER COORDINATION WITH THE FIRE MARSHALL, A MANUAL STANDPIPE IS APPROVED AND THE DESIGN INTENT IN ACCORDANCE WITH NFPA REQUIREMENTS.

5 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

6 3" WASTE DOWN AND 2" VENT UP.

7 4" WASTE DOWN FROM ABOVE.

8 2" WASTE DOWN FROM ABOVE.

9 6" STORM PIPE DOWN FROM ABOVE.

10 3" VENT UP.

11 2" WASTE DOWN AND 2" VENT UP FROM PLUMBING FIXTURE, 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

12 6" STORM PIPE DOWN.

13 4" WASTE DOWN.

14 3" DRAIN DOWN FROM ABOVE, PROVIDE TRAP PRIMER.

15 3/4" HOT AND COLD WATER DOWN TO SERVE PLUMBING FIXTURE(S).

16 3/4" GAS DOWN.

17 PROVIDE REGULATOR (STEP DOWN FROM 5 PSI TO 7"-14" W.C.) W/ SHUT-OFF VALVE ON EACH SIDE. VENT REGULATOR TO THE EXTERIOR AS REQUIRED. CONTRACTOR SHALL COORDINATE EXACT EQUIPMENT INLET SIZE AND PRESSURE REQUIREMENTS PRIOR TO INSTALL.

18 2" VENT UP FROM BELOW.

19 4" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

20 2-1/2" GAS DOWN.

21 8" STORM PIPE DOWN FROM ABOVE.

22 3/4" COLD WATER UP.

23 2-1/2" GAS UP.

24 2" VENT UP.

25 10" STORM PIPE DOWN.

26 10" STORM PIPE DOWN FROM ABOVE.

27 6" FIRE LINE UP.

1 1ST FLOOR PLUMBING PLAN - AREA B NEW GYM FLOOR PLAN
1/8" = 1'-0"

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LEAF ENGINEERS

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ISSUE FOR PROPOSAL

Galena Park ISD
BUILDING FOR THE FUTURE

B

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
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CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING PLAN - AREA B NEW GYM FLOOR PLAN

P-101B

Plot Stamp:
1/7/2026 4:44:02 PM

0"
1"

1ST FLOOR PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-101D

FOR BLUEBEAM LABELING/OCR:

KEYNOTES - PLUMBING PLAN

1 STANDPIPE WITH 2.5" FIRE HOSE VALVE (COMPONENTS SHALL BE LOCATED OUTSIDE STAIRWELL PATH OF EGRESS). PROVIDE 4" VICTAULIC UMC ASSEMBLY AS REQUIRED. ROUTE DRAIN LINE TO EXTERIOR IN CONCEALED MANNER AS REQUIRED. COORDINATE WITH ARCHITECTURAL STAIR ELEMENTS. AS PER COORDINATION WITH THE FIRE MARSHALL, A MANUAL STANDPIPE IS APPROVED AND THE DESIGN INTENT IN ACCORDANCE WITH NFPA REQUIREMENTS.

2 4" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

3 2" VENT UP FROM BELOW.

4 4" WASTE DOWN AND 2" VENT UP.

5 2" VENT UP.

6 4" WASTE DOWN FROM ABOVE.

7 3" WASTE DOWN FROM ABOVE.

8 3" WASTE DOWN.

9 10" STORM PIPE DOWN FROM ABOVE.

10 2" WASTE DOWN, 2" VENT UP FROM PLUMBING FIXTURE, 3/4" HOT AND COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

11 8" STORM PIPE DOWN FROM ABOVE.

KEYNOTES - PLUMBING PLAN

12 4" STORM PIPE DOWN FROM ABOVE.

13 2-1/2" GAS UP.

14 2-1/2" GAS DOWN.

15 10" STORM PIPE DOWN.

GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.

I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

GENERAL NOTES - PLUMBING PLAN

J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

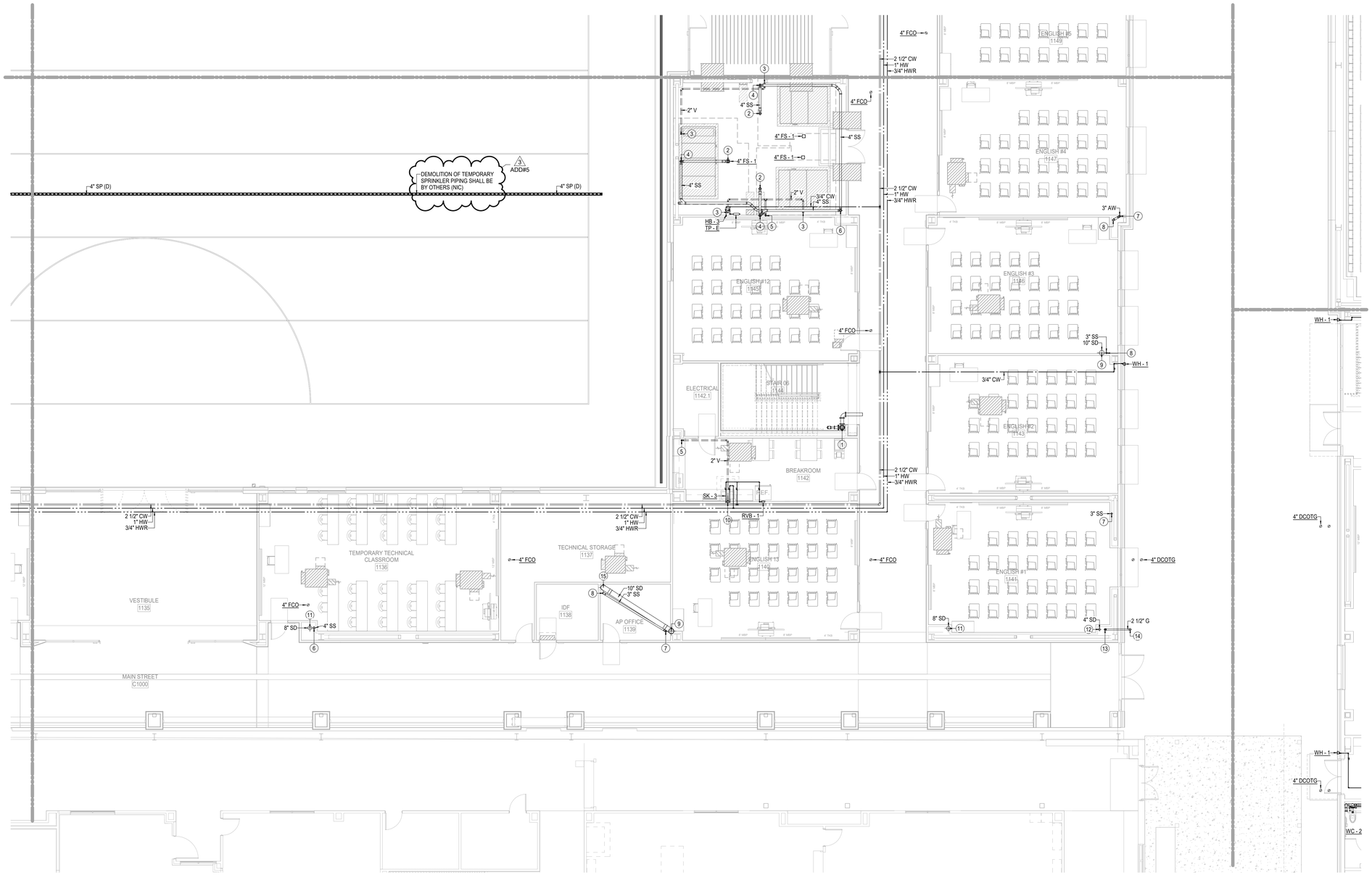
L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.



1 1ST FLOOR PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

Plot Stamp:
1/7/2026 4:44:08 PM

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

D

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	PACKAGE 3B - ADD 03	12/19/2025
3	PACKAGE 3B - ADD 05	01/08/2026

CHECKED BY: SC
DRAWN BY: SC

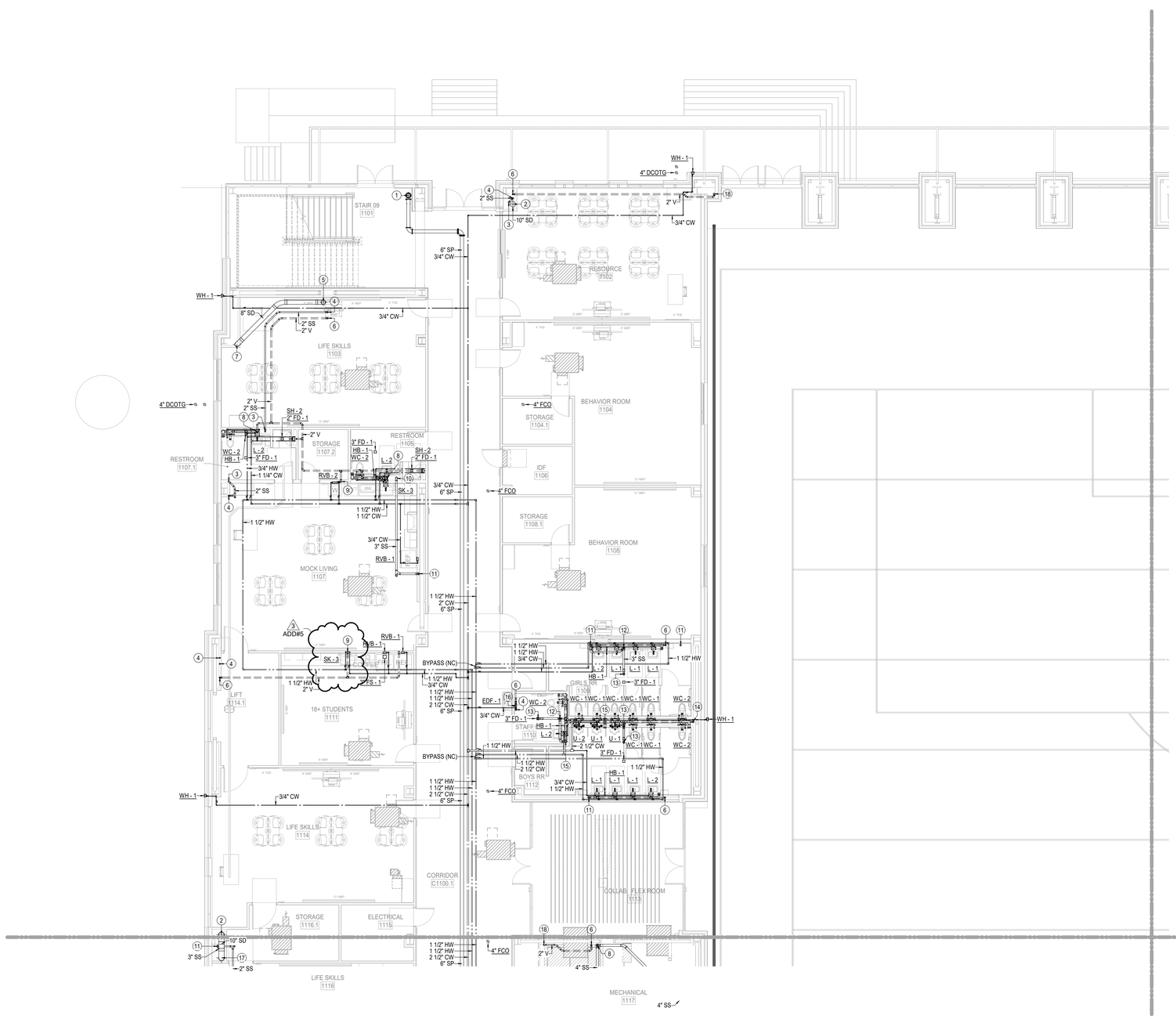
1ST FLOOR PLUMBING PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-101D

0"
1"

1ST FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN - P-101E

FOR BLUEBEAM LABELING/OCR:



GENERAL NOTES - PLUMBING PLAN

A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.

C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.

D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.

F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY LINES EXITING THE BUILDING.

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K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.

L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING EQUIPMENT.

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N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL MECHANICAL ROOMS, HB-3.

O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.

P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

KEYNOTES - PLUMBING PLAN

1 STANDPIPE WITH 2.5" FIRE HOSE VALVE (COMPONENTS SHALL BE LOCATED OUTSIDE STAIRWELL PATH OF EGRESS). PROVIDE 4" VICTAULIC UMC ASSEMBLY AS REQUIRED. ROUTE DRAIN LINE TO EXTERIOR IN CONCEALED MANNER AS REQUIRED. COORDINATE WITH ARCHITECTURAL STAIR ELEMENTS. AS PER COORDINATION WITH THE FIRE MARSHALL, A MANUAL STANDPIPE IS APPROVED AND THE DESIGN INTENT IN ACCORDANCE WITH NFPA REQUIREMENTS.

2 10" STORM PIPE DOWN FROM ABOVE.

3 2" WASTE DOWN.

4 2" WASTE DOWN FROM ABOVE.

5 8" STORM PIPE DOWN FROM ABOVE.

6 2" VENT UP.

7 8" STORM PIPE DOWN.

8 4" WASTE DOWN AND 2" VENT UP.

9 2" WASTE DOWN, 2" VENT UP FROM PLUMBING FIXTURE, 3/4" HOT AND COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

10 3" WASTE DOWN.

11 3" WASTE DOWN FROM ABOVE.

12 3" WASTE DOWN AND 2" VENT UP.

13 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

14 3" VENT UP.

15 4" WASTE DOWN FROM ABOVE.

16 2" WASTE DOWN AND 2" VENT UP FROM PLUMBING FIXTURE, 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

17 10" STORM PIPE DOWN.

18 2" VENT UP FROM BELOW.

1 1ST FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

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ISSUE FOR PROPOSAL

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A

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	PACKAGE 3B - ADD 03	12/19/2025
3	PACKAGE 3B - ADD 05	01/08/2026

CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-101E

Plot Stamp:
1/7/2026 4:44:12 PM

0"
1"

1ST FLOOR PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-101F

FOR BLUEBEAM LABELING/OCR:

KEYNOTES - PLUMBING PLAN

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2 10" STORM PIPE DOWN FROM ABOVE.

3 3" WASTE DOWN FROM ABOVE.

4 10" STORM PIPE DOWN.

5 4" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

6 4" WASTE DOWN AND 2" VENT UP.

7 3" WASTE DOWN AND 2" VENT UP.

8 3" WASTE DOWN FROM FLOOR SINK, PROVIDE TRAP PRIMER.

9 6" STORM PIPE DOWN FROM ABOVE.

10 6" STORM PIPE DOWN.

11 4" WASTE DOWN.

12 6" FIRE LINE UP.

KEYNOTES - PLUMBING PLAN

13 12" STORM PIPE DOWN FROM ABOVE.

14 3" WASTE DOWN FROM FLOOR DRAIN, PROVIDE TRAP PRIMER.

15 3" DRAIN DOWN FROM ABOVE, PROVIDE TRAP PRIMER.

16 3" WASTE DOWN.

17 2" VENT UP FROM BELOW.

18 2" WASTE DOWN, 2" VENT UP FROM PLUMBING FIXTURE, 3/4" HOT AND COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

19 2" VENT UP.

20 4" WASTE DOWN FROM ABOVE.

21 2" WASTE DOWN FROM ABOVE.

22 8" STORM PIPE DOWN FROM ABOVE.

23 2" WASTE DOWN AND 2" VENT UP FROM PLUMBING FIXTURE, 3/4" COLD WATER DOWN TO SERVE PLUMBING FIXTURE.

GENERAL NOTES - PLUMBING PLAN

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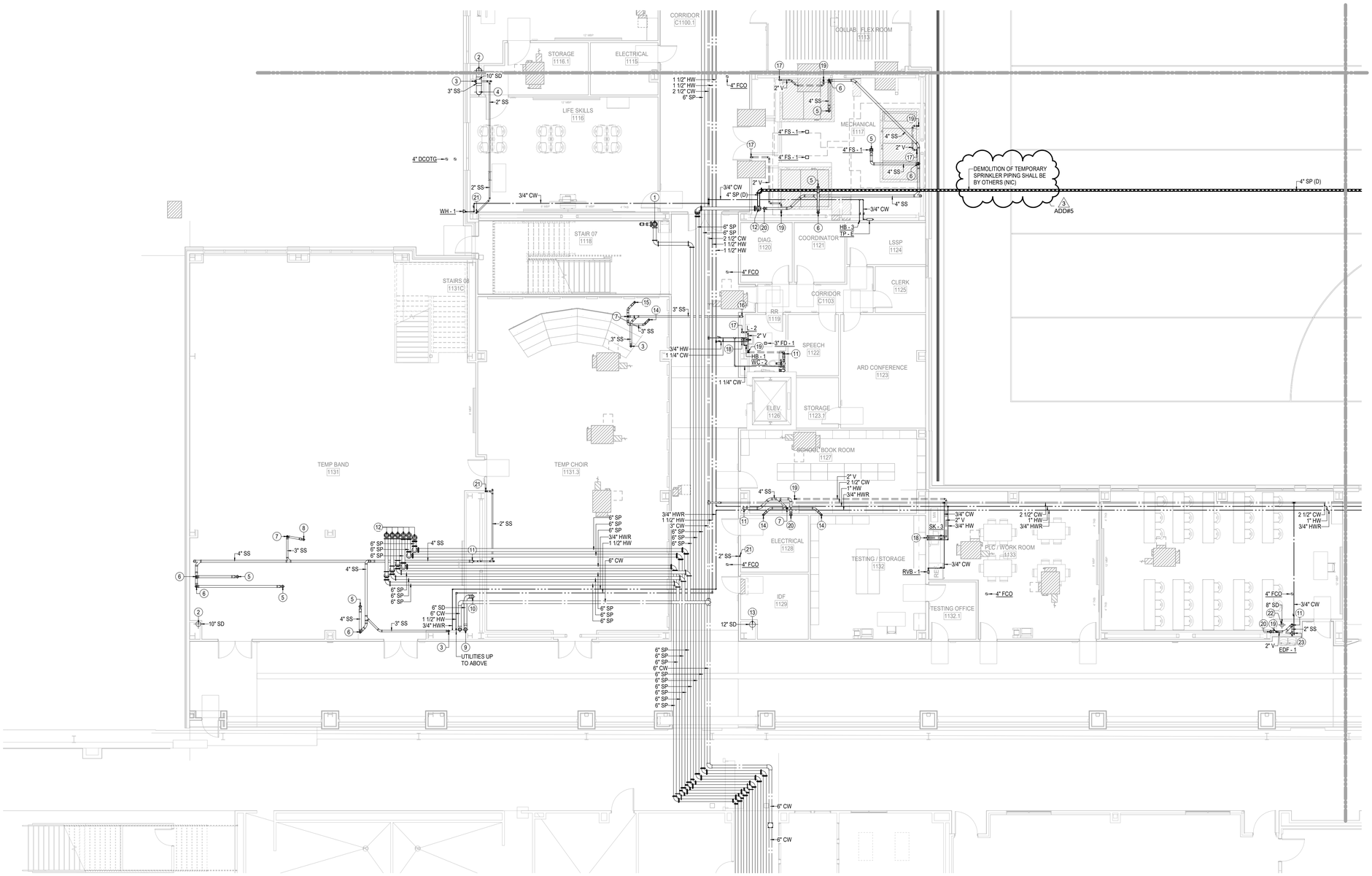

1 1ST FLOOR PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
1/8" = 1'-0"

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

F

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

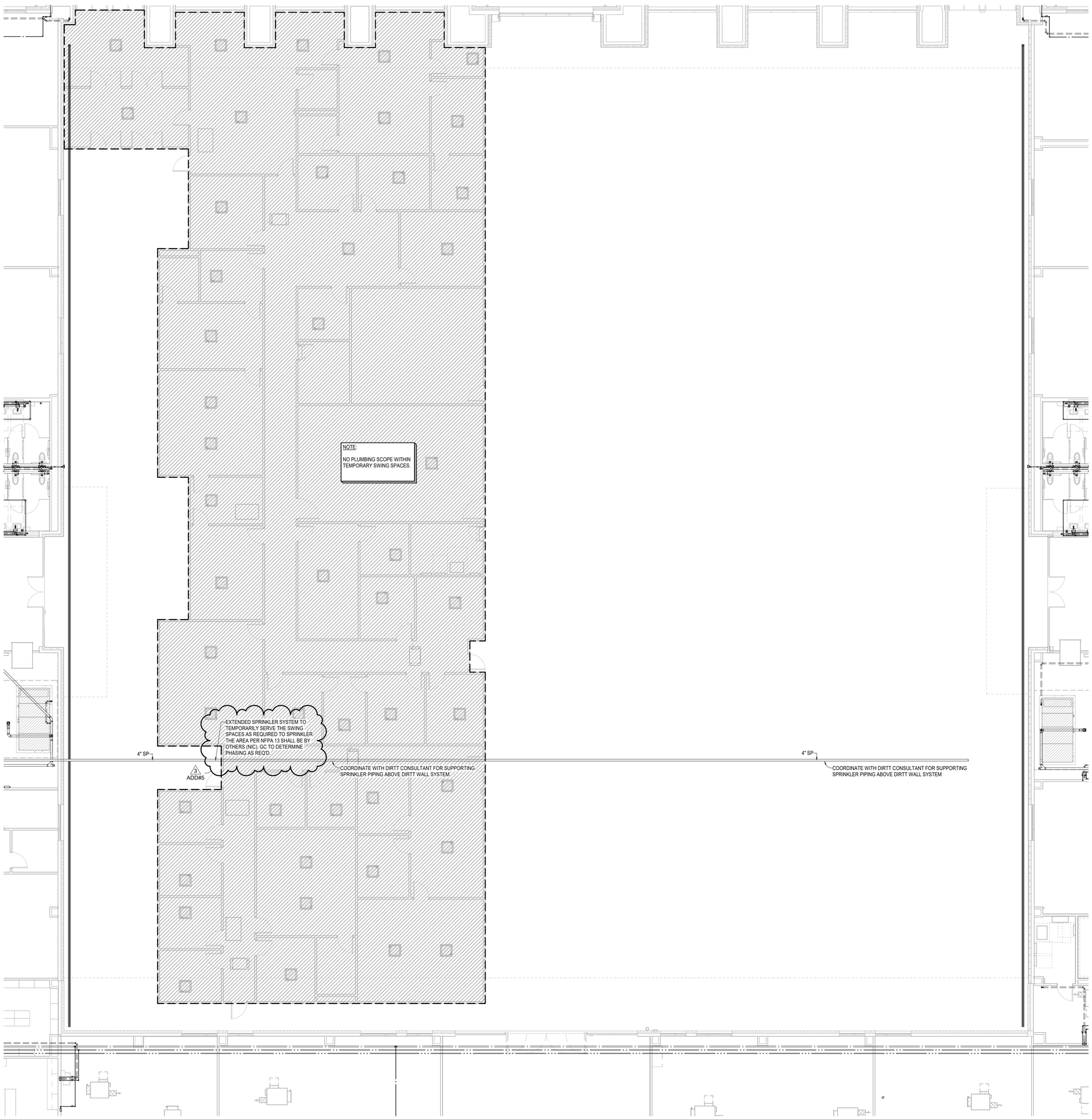
No.	Description	Date
2	PACKAGE 3B - ADD 03	12/19/2025
3	PACKAGE 3B - ADD 05	01/08/2026

CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN

P-101F

1ST FLOOR PLUMBING PLAN - AREA G - TEMPORARY SWING SPACES
P-101GT
FOR BLUEBEAM LABELING/OCR:



1 1ST FLOOR PLUMBING PLAN - AREA G - TEMPORARY SWING SPACES
1/8" = 1'-0"

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KEYNOTES - PLUMBING PLAN

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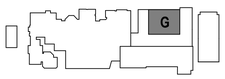

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	PACKAGE 3B - ADD 03	12/19/2025
3	PACKAGE 3B - ADD 05	01/08/2026

CHECKED BY: SC
DRAWN BY: SC

1ST FLOOR PLUMBING PLAN - AREA G - TEMPORARY SWING SPACES

P-101GT

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1/7/2026 4:44:19 PM

0"
1"

1ST FLOOR FIRE ALARM PLAN - AREA D - MP FACILITY FLOOR PLAN
TF-101D
FOR BLUEBEAM LABELING/OCR:

FIRE ALARM PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

B. DEVICE LOCATIONS AND QUANTITIES SHOWN ON DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE A COMPLETE AND CODE COMPLIANT FIRE ALARM SYSTEM PER IBC, IFC, NFPA 72 AND AHJ REQUIREMENTS.

C. VERIFY PROPER LOCATION OF DEVICES PRIOR TO INSTALLATION.

D. ELECTRICAL CONTRACTOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ACOUSTIC PANEL LOCATIONS AND ARTISTIC PAINT / MURAL LOCATIONS PRIOR TO ROUGH IN OF BACK BOXES TO ENSURE THERE ARE NO CONFLICTS.

E. PROVIDE WEATHERPROOF DEVICES IN ALL EXTERIOR, HIGH HUMIDITY AND WET AREAS (FREEZER / COOLER, SHOWERS, ETC.).

F. PROVIDE WIREGUARDS ON ALL DEVICES INSTALLED IN GYMNASIUMS.

G. PROVIDE A RELAY AT EVERY LOCAL SOUND RACK IN THE PROJECT TO PROVIDE FOR MUTING OR SHUT DOWN OF LOCAL SOUND SYSTEM IN AN ALARM EVENT. ROUTE FIRE ALARM CABLING INTO THE LOCAL SOUND RACK. COORDINATE WITH LOCAL SOUND CONTRACTOR.

(#) FIRE ALARM PLAN KEYED NOTES

1. INDICATES LOCATION OF FACP. PROVIDE DEDICATED CIRCUIT ON EMERGENCY POWER WHERE POSSIBLE.
2. INDICATES APPROXIMATE LOCATION OF FIRE ALARM POWER SUPPLY. PROVIDE DEDICATED CIRCUIT ON EMERGENCY POWER WHERE AVAILABLE.
3. INDICATED DETECTORS SHALL BE MOUNTED IN MAIN STREET HIGH CEILING. VERIFY PROPER LOCATION PRIOR TO ROUGH IN.
4. INDICATED DETECTORS SHALL BE MOUNTED IN DROP CEILING UNDER BALCONY WALKWAY SECTION. VERIFY PROPER LOCATION PRIOR TO ROUGH IN.
5. INDICATED RELAY IS FOR CONTROL/SHUTOFF OF DELTA-T WALL CONTROLLER FOR DESTRAT FANS IN MP SPACE 1100.

1 **1ST FLOOR FIRE ALARM PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:26:13 PM

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2025
3	ADDENDUM 5	01/08/2026

CHECKED BY: CL
DRAWN BY: REN

1ST FLOOR FIRE ALARM PLAN - AREA D - MP FACILITY FLOOR PLAN

TF-101D

0"
1"

1ST FLOOR FIRE ALARM PLAN - AREA F - MP FACILITY FLOOR PLAN
TF-101F
FOR BLUEBEAM LABELING/OCR:

FIRE ALARM PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

B. DEVICE LOCATIONS AND QUANTITIES SHOWN ON DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE A COMPLETE AND CODE COMPLIANT FIRE ALARM SYSTEM PER IBC, IFC, NFPA 72 AND AHJ REQUIREMENTS.

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1 1ST FLOOR FIRE ALARM PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:26:15 PM

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
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LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2025
3	ADDENDUM 5	01/08/2026

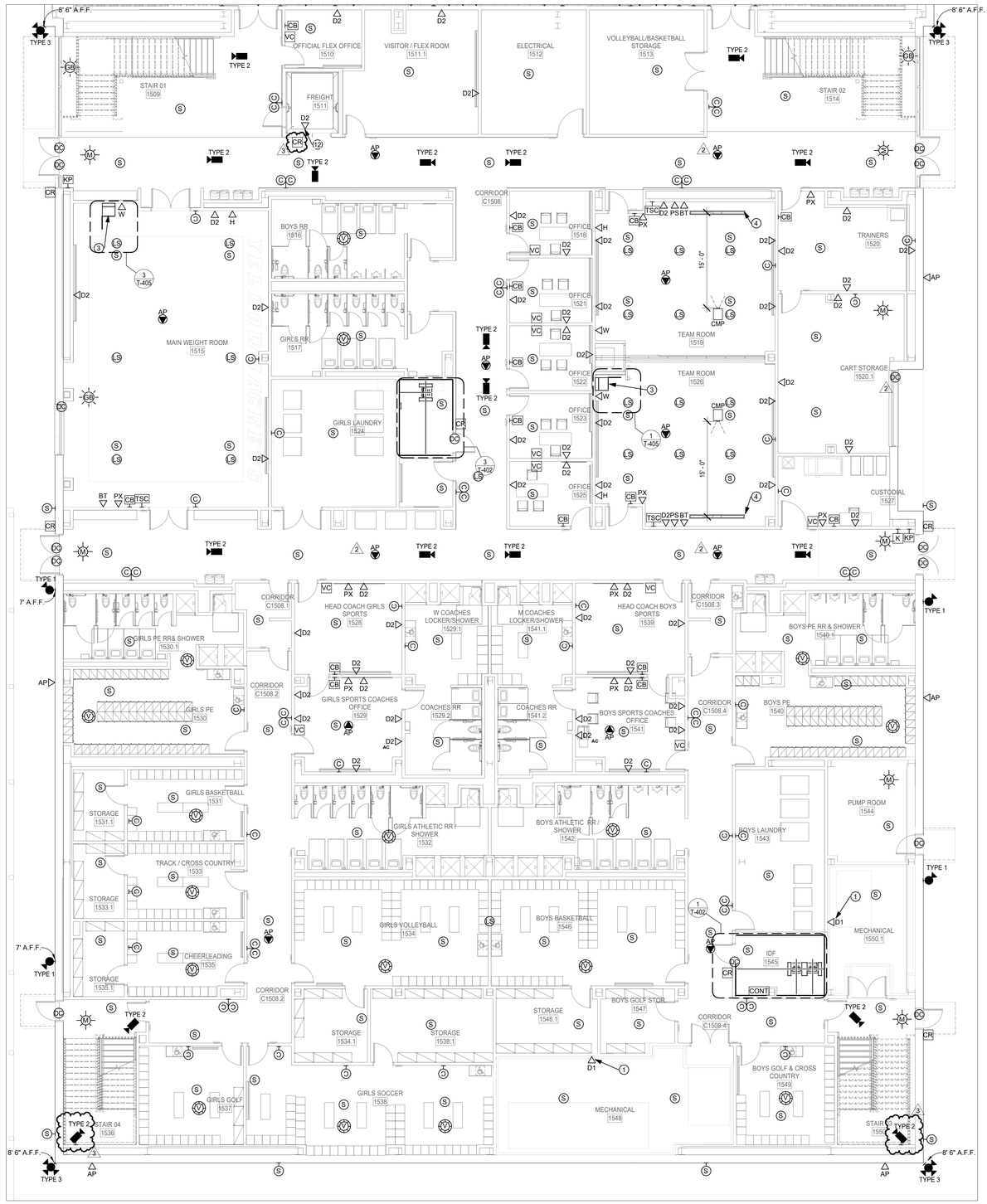
CHECKED BY: CL
DRAWN BY: REN

1ST FLOOR FIRE ALARM PLAN - AREA F - MP FACILITY FLOOR PLAN

TF-101F

1ST FLOOR TECHNOLOGY PLAN - AREA B - GYM FLOOR PLAN
TN-101B
FOR BLUEBEAM LABELING/DOOR:

0"
1"



1 **1ST FLOOR TECHNOLOGY PLAN - AREA B NEW GYM FLOOR PLAN**
SCALE: 1/8" = 1'-0"

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

D. EXTERIOR PUBLIC ADDRESS SPEAKERS SHALL BE ZONED SEPARATELY FROM INTERIOR PUBLIC ADDRESS SPEAKERS.

E. SECURITY CONTRACTOR SHALL INSTALL ALL POP-ITS IN ACCESSIBLE LOW CEILING SPACE FOR ALL HIGH-VOLUME CEILINGS, CAFETORIUMS, COMMONS AND GYMNASIUMS.

F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

I. CAMERA ORIENTATION SHOWN DOES NOT INDICATE ACTUAL FIELD OF VIEW. COORDINATE WITH OWNER AND ADJUST CAMERAS FOR PROPER FIELD OF VIEW.

J. PROVIDE WIREGUARDS OR CLEAR POLYCARBONATE COVERS ON DEVICES INSTALLED IN GYMNASIUMS.

K. EVERY VIDEO DISPLAY (LCD, VIDEO PROJECTOR, ETC.) SHALL RECEIVE 1 QTY. DATA CABLE ROUTED TO NEAREST IDF.

L. CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

M. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING OR REINSTALLING DIVISION 27 AND 28 DEVICES SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

N. NOT ALL EXISTING DEVICES ARE SHOWN ON DRAWINGS. DEVICE LOCATIONS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION.

O. "VAPE DETECTION SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW VAPE DETECTORS, CABLING, AND MOUNTING EQUIPMENT, IN THE NEWLY CONSTRUCTED BUILDINGS WHERE INDICATED.

P. HALO SHOULD BE INSTALLED AT LEAST ONE 2'X2' CEILING TILE AWAY FROM ANY AIR VENT OR HVAC UNIT. DO NOT INSTALL HALO NEXT TO ANY VENT/HVAC UNIT.

Q. HALO SENSORS SHALL BE MOUNTED NO MORE THAN 9 FEET AFF. PROVIDE PENDANT MOUNTS WHERE NECESSARY TO ACHIEVE RECOMMENDED MOUNTING HEIGHTS. WHERE RECOMMENDED CEILING MOUNTING HEIGHT IS NOT ACHIEVABLE, THE CONTRACTOR SHALL MOUNT DEVICE TO NEAREST WALL AT NO MORE THAN 9 FEET AFF.

R. UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED LOCAL SOUND SPEAKERS IN THE MULTIPURPOSE SPACE SHALL BE MOUNTED AT 14 FEET A.F.F. WITH AN 8 DEGREE DOWNWARD ANGLE. COORDINATE WITH ARCHITECT ON EXACT LOCATIONS AND HEIGHTS PRIOR TO ROUGH IN.

(#) TECHNOLOGY PLAN KEYED NOTES

1. DATA DROPS RESERVED FOR THE BAS SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL INSTALLATION LOCATION.
2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN NOTED AREA. 'D1' TYPICAL TO INDICATE.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
4. INDICATES MOTORIZED VIDEO PROJECTION SCREEN. PROVIDE 10A 120V CONNECTION FROM NEAREST COURTESY CIRCUIT IN SAME ROOM TERMINATED TO MOTOR END OF THE SCREEN HOUSING. PROVIDE 1 QTY. 1" CONDUIT ROUTED TO ASSOCIATED AV RACK AND/OR WALL MOUNT SCREEN CONTROLLER.
5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL, ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
7. INDICATED FLOOR DATA OUTLETS ARE RESERVED FOR EVOLV SCANNER SYSTEM FOR FRONT AREA SECURITY ENTRANCE. COORDINATE WITH PROPER TRADES PRIOR TO ROUGH-IN.
8. INDICATED CEILING MOUNTED DATA OUTLETS ARE RESERVED FOR OFOI LASER LIGHT DEVICES. PROVIDE (1) 20A QUAD RECEPTACLE 6" BESIDE THE DATA OUTLET. COORDINATE FINAL LOCATIONS PRIOR TO ROUGH IN.
9. INDICATES LOCATION OF OFOI RETRACTABLE GOLF SIMULATOR. PROVIDE INFRASTRUCTURE FOR PROJECTOR AND SENSOR DATA INTERCONNECTIONS TO SYSTEM PROCESSOR. COORDINATE PRIOR TO ROUGH IN.
10. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION. MOUNT 23 FEET A.F.F.
11. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION FOR LED TICKER. MOUNT 10 FEET A.F.F.
12. DATA OUTLET RESERVED FOR ELEVATOR EMERGENCY CALL AND SECURITY SYSTEM. PROVIDE (2) CAT6 CABLES FROM NEAREST MDF/IDF TO ELEVATOR CONTROL EQUIPMENT. COORDINATE WITH OWNER, SECURITY, AND ELEVATOR CONTRACTOR FOR FINAL TERMINATION AND INTEGRATION REQUIREMENTS. INSTALL PER ASME A17.1, NEC 620, BICSI, AND LOCAL CODES.
13. INDICATED 'LCD' IS FOR FUTURE DIGITAL SIGNAGE PURPOSES..

PBK
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HOUSTON, TX
713-865-6008
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

B

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT: Galena Park ISD
DATE: December 5, 2025
PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2025
3	ADDENDUM 5	01/08/2026

CHECKED BY: CL
DRAWN BY: REN

1ST FLOOR TECHNOLOGY PLAN - AREA B - GYM FLOOR PLAN

TN-101B

Plot Stamp:
1/8/2026 1:26:29 PM

0"
1"

1ST FLOOR TECHNOLOGY PLAN - AREA C - MP FACILITY FLOOR PLAN

TN-101C

FOR BLUEBEAM LABELING/DOOR:

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

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M. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING OR REINSTALLING DIVISION 27 AND 28 DEVICES SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

N. DATA CONTRACTOR SHALL PROVIDE DATA DROP AT ALL WON-DOOR FIRE PARTITIONS INDICATED ON DRAWINGS. REFERENCE DOOR SCHEDULE FOR LOCATIONS AND QUANTITIES.

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6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL. ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
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1 **1ST FLOOR TECHNOLOGY PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:26:36 PM

PBK
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HOUSTON, TX
713-865-0008

LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2026
3	ADDENDUM 5	01/08/2026

CHECKED BY: CL
DRAWN BY: REN

1ST FLOOR TECHNOLOGY PLAN - AREA C - MP FACILITY FLOOR PLAN

TN-101C

0"
1"

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

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Q. HALO SENSORS SHALL BE MOUNTED NO MORE THAN 9 FEET AFF. PROVIDE PENDANT MOUNTS WHERE NECESSARY TO ACHIEVE RECOMMENDED MOUNTING HEIGHTS. WHERE RECOMMENDED CEILING MOUNTING HEIGHT IS NOT ACHIEVABLE, THE CONTRACTOR SHALL MOUNT DEVICE TO NEAREST WALL AT NO MORE THAN 9 FEET AFF.

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4. INDICATES MOTORIZED VIDEO PROJECTION SCREEN. PROVIDE 10A 120V CONNECTION FROM NEAREST COURTESY CIRCUIT IN SAME ROOM TERMINATED TO MOTOR END OF THE SCREEN HOUSING. PROVIDE 1 QTY. 1" CONDUIT ROUTED TO ASSOCIATED AV RACK AND/OR WALL MOUNT SCREEN CONTROLLER.
5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL. ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
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1 1ST FLOOR TECHNOLOGY PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:26:40 PM

1ST FLOOR TECHNOLOGY PLAN - AREA D - MP FACILITY FLOOR PLAN
TN-101D
FOR BLUEBEAM LABELING/DOCR:

PBK
www.pbk.com
TX FIRM: BR 1608
HOUSTON, TX
713-865-0008
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2025
3	ADDENDUM 5	01/08/2026

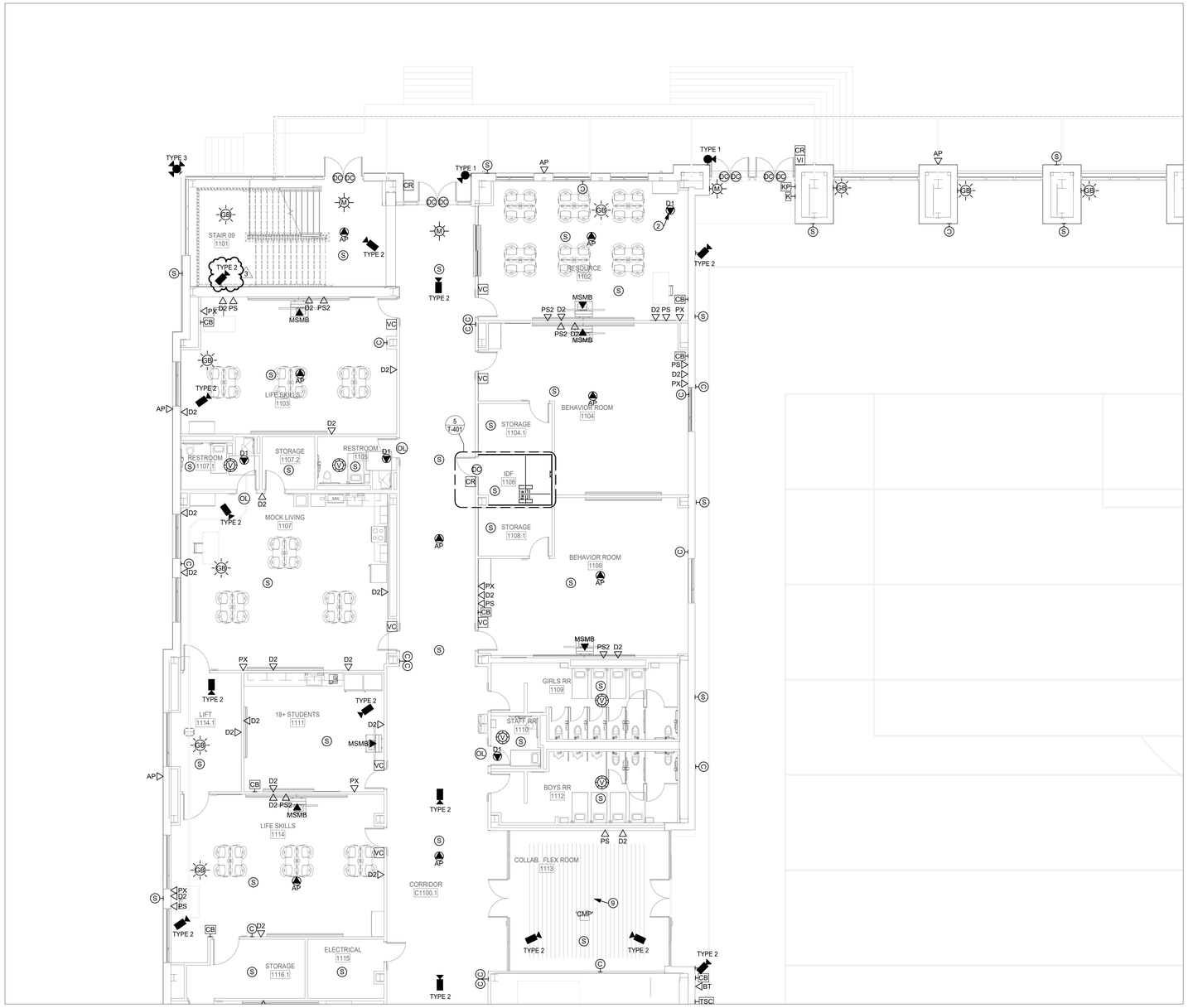
CHECKED BY: CL
DRAWN BY: REN

1ST FLOOR TECHNOLOGY PLAN - AREA D - MP FACILITY FLOOR PLAN

TN-101D

0"
1"

1ST FLOOR TECHNOLOGY PLAN - AREA E - MP FACILITY FLOOR PLAN
TN-101E
FOR BLUEBEAM LABELING/DOCR:



1 **1ST FLOOR TECHNOLOGY PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

TECHNOLOGY PLAN GENERAL NOTES

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C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

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P. HALO SHOULD BE INSTALLED AT LEAST ONE 2'X2' CEILING TILE AWAY FROM ANY AIR VENT OR HVAC UNIT. DO NOT INSTALL HALO NEXT TO ANY VENT/HVAC UNIT.

Q. HALO SENSORS SHALL BE MOUNTED NO MORE THAN 9 FEET AFF. PROVIDE PENDANT MOUNTS WHERE NECESSARY TO ACHIEVE RECOMMENDED MOUNTING HEIGHTS. WHERE RECOMMENDED CEILING MOUNTING HEIGHT IS NOT ACHIEVABLE, THE CONTRACTOR SHALL MOUNT DEVICE TO NEAREST WALL AT NO MORE THAN 9 FEET AFF.

R. UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED LOCAL SOUND SPEAKERS IN THE MULTIPURPOSE SPACE SHALL BE MOUNTED AT 14 FEET A.F.F. WITH AN 8 DEGREE DOWNWARD ANGLE. COORDINATE WITH ARCHITECT ON EXACT LOCATIONS AND HEIGHTS PRIOR TO ROUGH IN.

TECHNOLOGY PLAN KEYED NOTES

1. DATA DROPS RESERVED FOR THE BAS SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL INSTALLATION LOCATION.
2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN NOTED AREA. 'D1' TYPICAL TO INDICATE.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
4. INDICATES MOTORIZED VIDEO PROJECTION SCREEN. PROVIDE 10A 120V CONNECTION FROM NEAREST COURTESY CIRCUIT IN SAME ROOM TERMINATED TO MOTOR END OF THE SCREEN HOUSING. PROVIDE 1 QTY. 1" CONDUIT ROUTED TO ASSOCIATED AV RACK AND/OR WALL MOUNT SCREEN CONTROLLER.
5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL, ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
7. INDICATED FLOOR DATA OUTLETS ARE RESERVED FOR EVOLV SCANNER SYSTEM FOR FRONT AREA SECURITY ENTRANCE. COORDINATE WITH PROPER TRADES PRIOR TO ROUGH-IN.
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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St,
Galena Park, TX 77547

ISSUE FOR PROPOSAL

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADDENDUM 5	01/08/2026

CHECKED BY: CL
DRAWN BY: REN

1ST FLOOR TECHNOLOGY PLAN - AREA E - MP FACILITY FLOOR PLAN

TN-101E

Plot Stamp:
1/8/2026 1:26:44 PM

0"
1"

1ST FLOOR TECHNOLOGY PLAN - AREA F - MP FACILITY FLOOR PLAN
TN-101F
FOR BLUEBEAM LABELING/DOOR:

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A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

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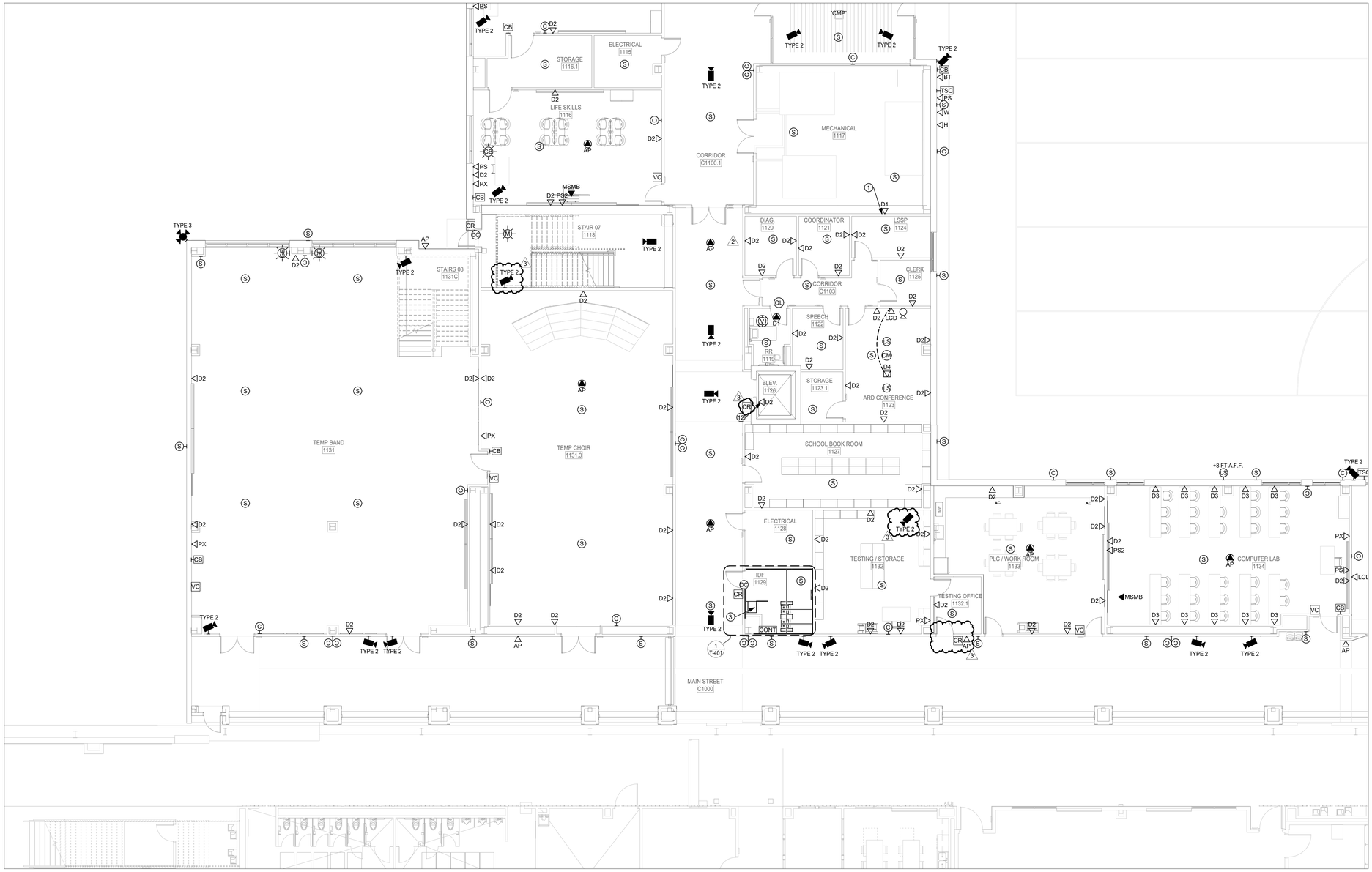

1 1ST FLOOR TECHNOLOGY PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:26:49 PM

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PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)
1000 Keene St.
Galena Park, TX 77547
ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2025
3	ADDENDUM 5	01/08/2026

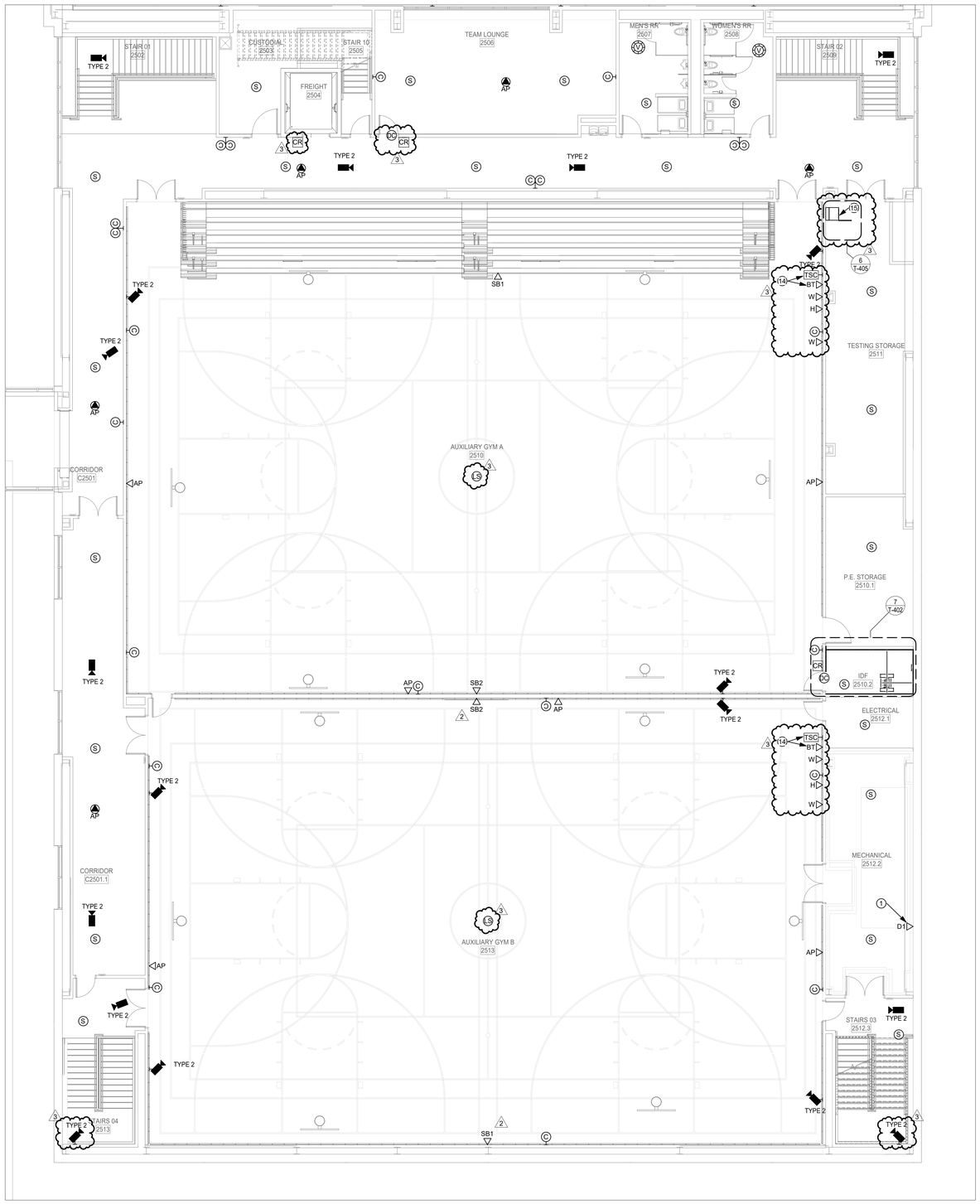
CHECKED BY: CL
DRAWN BY: REN

1ST FLOOR TECHNOLOGY PLAN - AREA F - MP FACILITY FLOOR PLAN

TN-101F

0"
1"

2ND FLOOR TECHNOLOGY PLAN - AREA B - GYM FLOOR PLAN
TN-102B
FOR BLUEBEAM LABELING/DOOR:



1 **2ND FLOOR TECHNOLOGY PLAN - AREA B NEW GYM FLOOR PLAN**
SCALE: 1/8" = 1'-0"

TN-101A AND TN-102B AREA-SPECIFIC GENERAL NOTES.

- IN COMPETITION GYM AND AUXILIARY GYMS A & B, ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND JUNCTION BOXES AS REQUIRED TO ESTABLISH A COMPLETE PATHWAY FOR NEVCO 'S TURNKEY SCORING SYSTEM INSTALLATION, WHICH WILL BE PERFORMED UNDER A SEPARATE CONTRACT. THE ESTIMATED CONDUIT LENGTH IS APPROXIMATELY 850 LINEAR FEET, WITH ROUTING COORDINATED PER ARCHITECTURAL AND TECHNOLOGY PLANS. JUNCTION BOXES SHALL BE INSTALLED AT LOCATIONS INDICATED ON THE DRAWINGS OR AS REQUIRED FOR SYSTEM COMPONENTS. COORDINATE ALL ROUTING AND BOX PLACEMENT WITH NEVCO INSTALLER AND THE ARCHITECT PRIOR TO ROUGH-IN. ALL CONDUIT SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH NEC AND PROJECT SPECIFICATIONS. FINAL QUANTITIES AND LOCATIONS SHALL BE VERIFIED BY NEVCO.

2

(#) AUXILIARY GYM A 2510 & AUXILIARY GYM B 2513 AV KEYNOTES .

14. TERMINATE ASSOCIATED CONDUIT TO RACK IN STORAGE 2511.

15. INDICATES LOCATION OF LOCAL SOUND RACK. PROVIDE (2) DEDICATED 20-AMP CIRCUITS INSIDE OF RACK BACK-PAN. COORDINATE WITH LOCAL SOUND CONTRACTOR FOR ELEVATION PRIOR TO ROUGH-IN. PROVIDE (1) 24X4X4 WIRE GUTTER ABOVE CEILING WITH (2) 2" CONDUITS TERMINATED TO RACK BACK-PAN.

3

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

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ISSUE FOR PROPOSAL

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B

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STATE OF TEXAS
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December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2025
3	ADDENDUM 5	01/08/2026

CHECKED BY: CL
DRAWN BY: REN

2ND FLOOR TECHNOLOGY PLAN - AREA B - GYM FLOOR PLAN

TN-102B

Plot Stamp:
1/8/2026 1:26:53 PM

0"
1"

2ND FLOOR TECHNOLOGY PLAN - AREA C - MP FACILITY FLOOR PLAN

TN-102C

FOR BLUEBEAM LABELING/OCR:

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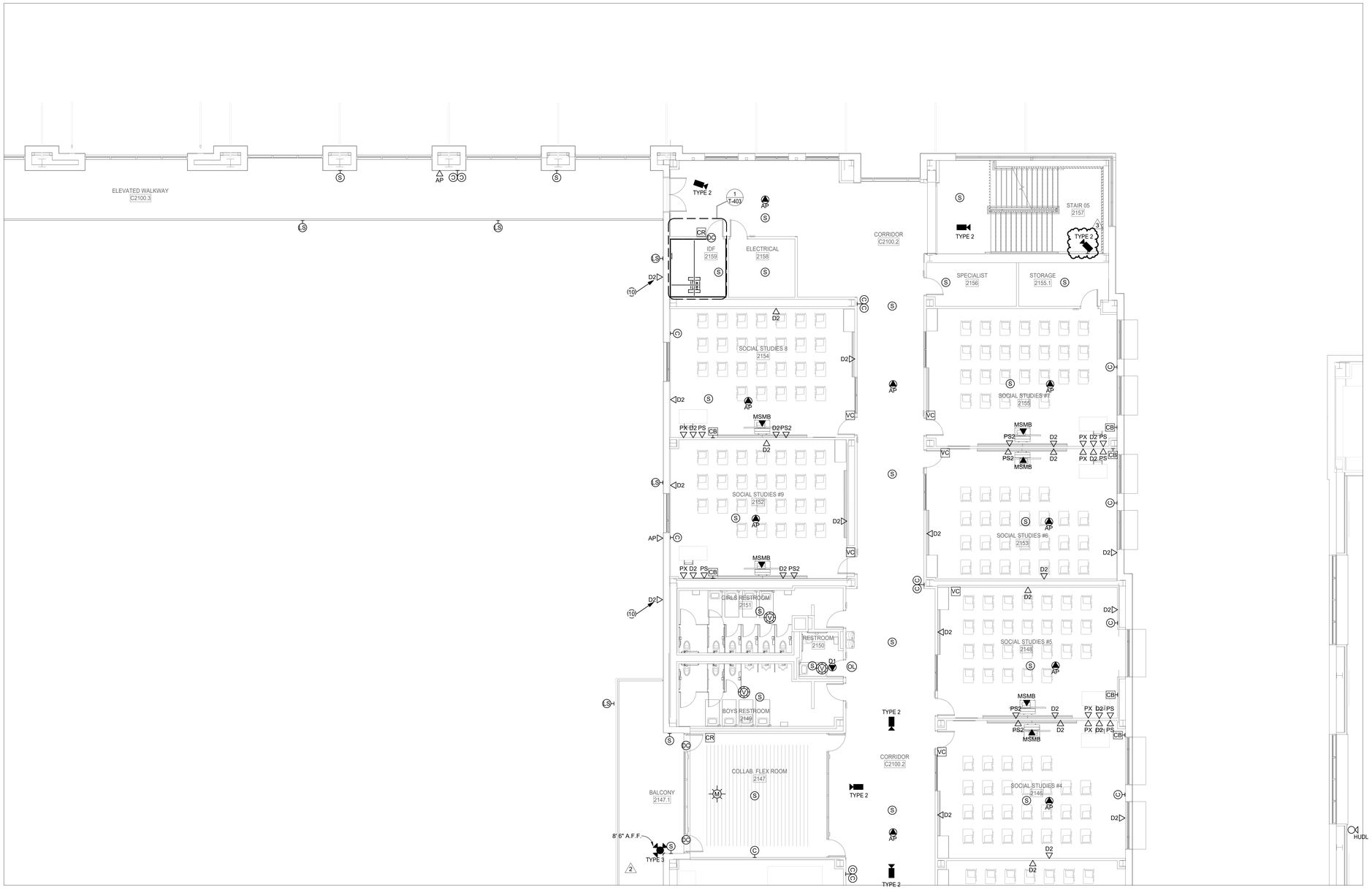
P. HALO SHOULD BE INSTALLED AT LEAST ONE 2'X2' CEILING TILE AWAY FROM ANY AIR VENT OR HVAC UNIT. DO NOT INSTALL HALO NEXT TO ANY VENT/HVAC UNIT.

Q. HALO SENSORS SHALL BE MOUNTED NO MORE THAN 9 FEET AFF. PROVIDE PENDANT MOUNTS WHERE NECESSARY TO ACHIEVE RECOMMENDED MOUNTING HEIGHTS. WHERE RECOMMENDED CEILING MOUNTING HEIGHT IS NOT ACHIEVABLE, THE CONTRACTOR SHALL MOUNT DEVICE TO NEAREST WALL AT NO MORE THAN 9 FEET AFF.

R. UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED LOCAL SOUND SPEAKERS IN THE MULTIPURPOSE SPACE SHALL BE MOUNTED AT 14 FEET A.F.F. COORDINATE WITH ARCHITECT ON EXACT LOCATIONS AND HEIGHTS PRIOR TO ROUGH IN.

(#) TECHNOLOGY PLAN KEYED NOTES

1. DATA DROPS RESERVED FOR THE BAS SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL INSTALLATION LOCATION.
2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN SPED AREA.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
4. INDICATES MOTORIZED VIDEO PROJECTION SCREEN. PROVIDE 10A 120V CONNECTION FROM NEAREST COURTESY CIRCUIT IN SAME ROOM TERMINATED TO MOTOR END OF THE SCREEN HOUSING. PROVIDE 1 QTY. 1" CONDUIT ROUTED TO ASSOCIATED AV RACK AND/OR WALL MOUNT SCREEN CONTROLLER.
5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL. ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
7. INDICATED FLOOR DATA OUTLETS ARE RESERVED FOR EVOLV SCANNER SYSTEM FOR FRONT AREA SECURITY ENTRANCE. COORDINATE WITH PROPER TRADES PRIOR TO ROUGH-IN.
8. INDICATED CEILING MOUNTED DATA OUTLETS ARE RESERVED FOR OFOI LASER LIGHT DEVICES. PROVIDE (1) 20A QUAD RECEPTACLE 6" BESIDE THE DATA OUTLET. COORDINATE FINAL LOCATIONS PRIOR TO ROUGH IN.
9. INDICATES LOCATION OF OFOI RETRACTABLE GOLF SIMULATOR. PROVIDE INFRASTRUCTURE FOR PROJECTOR AND SENSOR DATA INTERCONNECTIONS TO SYSTEM PROCESSOR. COORDINATE PRIOR TO ROUGH IN.
10. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION. MOUNT 23 FEET A.F.F.
11. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION FOR LED TICKER. MOUNT 10 FEET A.F.F.
12. DATA OUTLET RESERVED FOR ELEVATOR EMERGENCY CALL AND SECURITY SYSTEM. PROVIDE (2) CAT6 CABLES FROM NEAREST MDF/IDF TO ELEVATOR CONTROL EQUIPMENT. COORDINATE WITH OWNER, SECURITY, AND ELEVATOR CONTRACTOR FOR FINAL TERMINATION AND INTEGRATION REQUIREMENTS. INSTALL PER ASME A17.1, NEC 620, BICSI, AND LOCAL CODES.



1 2ND FLOOR TECHNOLOGY PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:26:58 PM

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713-865-0008

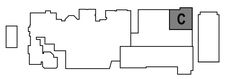
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2025
3	ADDENDUM 5	01/08/2026

CHECKED BY: CL
DRAWN BY: REN

2ND FLOOR TECHNOLOGY PLAN - AREA C - MP FACILITY FLOOR PLAN

TN-102C

0"

1"

FOR BLUEBEAM LABELING/DOOR:

2ND FLOOR TECHNOLOGY PLAN - AREA D - MP FACILITY FLOOR PLAN

TN-102D

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

D. EXTERIOR PUBLIC ADDRESS SPEAKERS SHALL BE ZONED SEPARATELY FROM INTERIOR PUBLIC ADDRESS SPEAKERS.

E. SECURITY CONTRACTOR SHALL INSTALL ALL POP-ITS IN ACCESSIBLE LOW CEILING SPACE FOR ALL HIGH-VOLUME CEILINGS, CAFETORIUMS, COMMONS AND GYMNASIUMS.

F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

I. CAMERA ORIENTATION SHOWN DOES NOT INDICATE ACTUAL FIELD OF VIEW. COORDINATE WITH OWNER AND ADJUST CAMERAS FOR PROPER FIELD OF VIEW.

J. PROVIDE WIREGUARDS OR CLEAR POLYCARBONATE COVERS ON DEVICES INSTALLED IN GYMNASIUMS.

K. EVERY VIDEO DISPLAY (LCD, VIDEO PROJECTOR, ETC.) SHALL RECEIVE 1 QTY. DATA CABLE ROUTED TO NEAREST IDF.

L. CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

M. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING OR REINSTALLING DIVISION 27 AND 28 DEVICES SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

N. DATA CONTRACTOR SHALL PROVIDE DATA DROP AT ALL WON-DOOR FIRE PARTITIONS INDICATED ON DRAWINGS. REFERENCE DOOR SCHEDULE FOR LOCATIONS AND QUANTITIES.

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6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL. ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
7. INDICATED FLOOR DATA OUTLETS ARE RESERVED FOR EVOLV SCANNER SYSTEM FOR FRONT AREA SECURITY ENTRANCE. COORDINATE WITH PROPER TRADES PRIOR TO ROUGH-IN.
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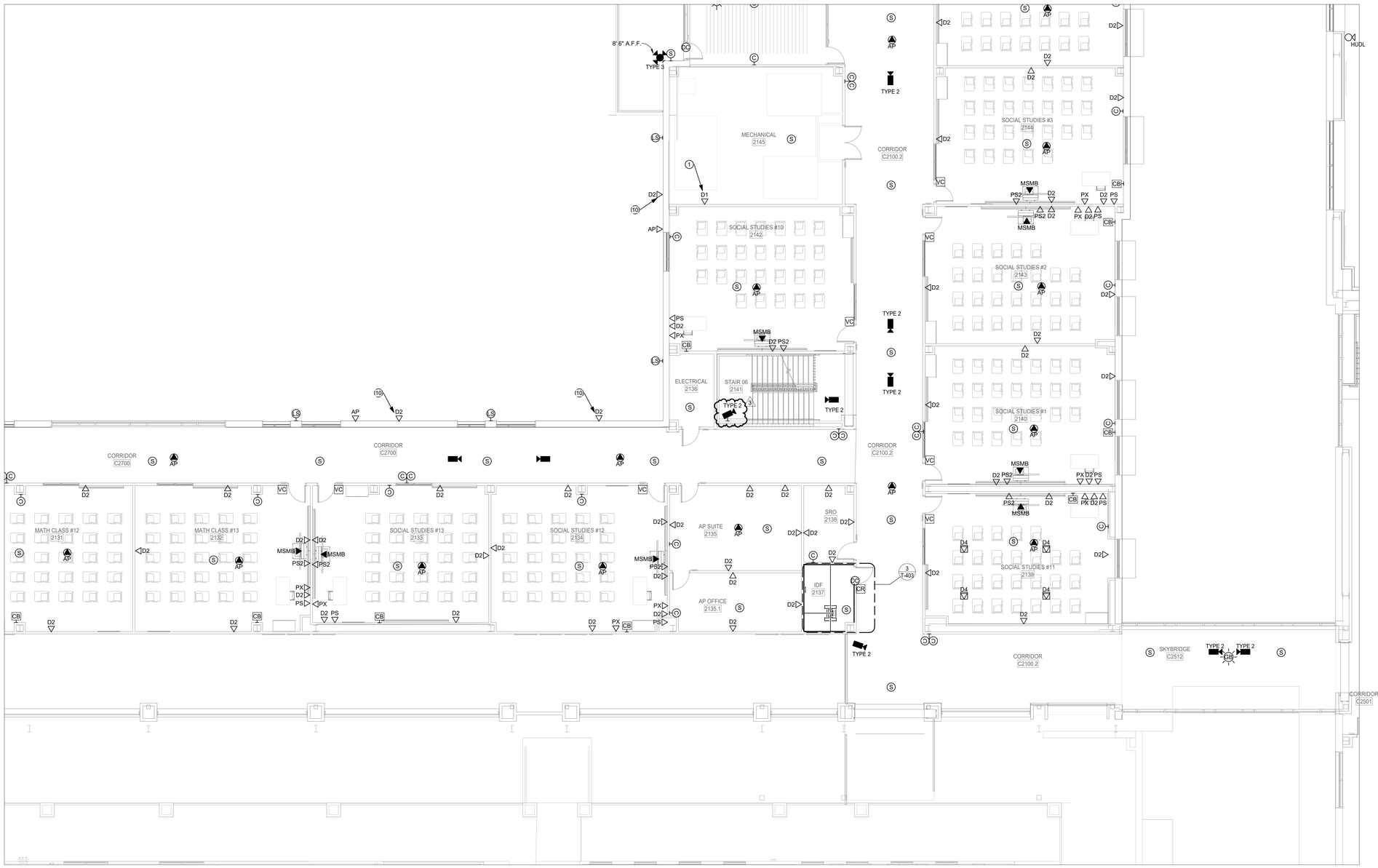

1 2ND FLOOR TECHNOLOGY PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN

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

Plot Stamp:
1/8/2026 1:27:03 PM

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HOUSTON, TX
713-865-0008

LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

D

KEY PLAN

NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
3	ADDENDUM 5	01/08/2026

CHECKED BY: CL

DRAWN BY: REN

2ND FLOOR TECHNOLOGY PLAN - AREA D - MP FACILITY FLOOR PLAN

TN-102D

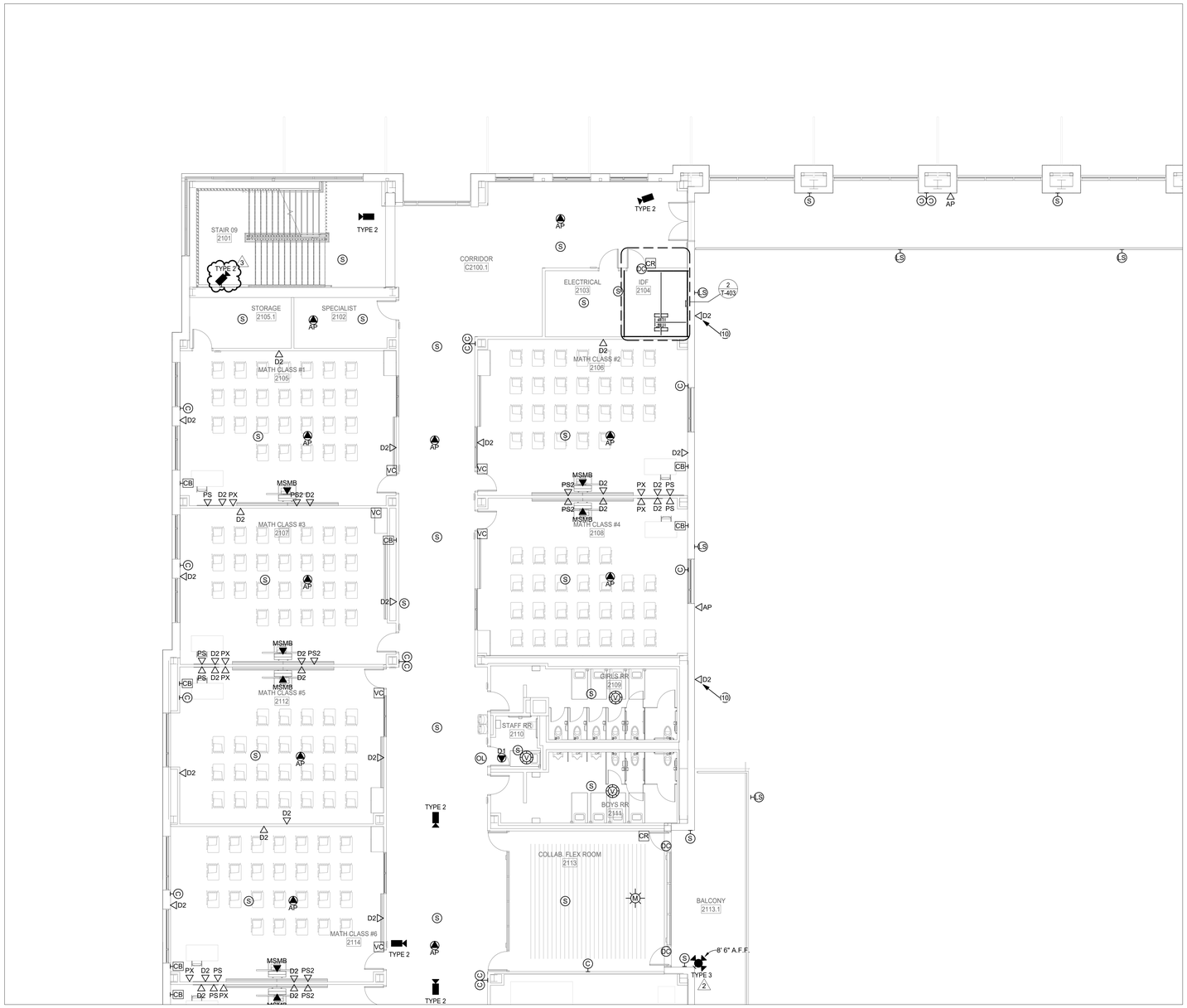
0"

1"

2ND FLOOR TECHNOLOGY PLAN - AREA E - MP FACILITY FLOOR PLAN

TN-102E

FOR BLUEBEAM LABELING/DOOR:



1 **2ND FLOOR TECHNOLOGY PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN**

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

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

D. EXTERIOR PUBLIC ADDRESS SPEAKERS SHALL BE ZONED SEPARATELY FROM INTERIOR PUBLIC ADDRESS SPEAKERS.

E. SECURITY CONTRACTOR SHALL INSTALL ALL POP-ITS IN ACCESSIBLE LOW CEILING SPACE FOR ALL HIGH-VOLUME CEILINGS, CAFETORIUMS, COMMONS AND GYMNASIUMS.

F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

I. CAMERA ORIENTATION SHOWN DOES NOT INDICATE ACTUAL FIELD OF VIEW. COORDINATE WITH OWNER AND ADJUST CAMERAS FOR PROPER FIELD OF VIEW.

J. PROVIDE WIREGUARDS OR CLEAR POLYCARBONATE COVERS ON DEVICES INSTALLED IN GYMNASIUMS.

K. EVERY VIDEO DISPLAY (LCD, VIDEO PROJECTOR, ETC.) SHALL RECEIVE 1 QTY. DATA CABLE ROUTED TO NEAREST IDF.

L. CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

M. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING OR REINSTALLING DIVISION 27 AND 28 DEVICES SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

N. NOT ALL EXISTING DEVICES ARE SHOWN ON DRAWINGS. DEVICE LOCATIONS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION.

O. "VAPE DETECTION SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW VAPE DETECTORS, CABLING, AND MOUNTING EQUIPMENT, IN THE NEWLY CONSTRUCTED BUILDINGS WHERE INDICATED.

P. HALO SHOULD BE INSTALLED AT LEAST ONE 2'X2' CEILING TILE AWAY FROM ANY AIR VENT OR HVAC UNIT. DO NOT INSTALL HALO NEXT TO ANY VENT/HVAC UNIT.

Q. HALO SENSORS SHALL BE MOUNTED NO MORE THAN 9 FEET AFF. PROVIDE PENDANT MOUNTS WHERE NECESSARY TO ACHIEVE RECOMMENDED MOUNTING HEIGHTS. WHERE RECOMMENDED CEILING MOUNTING HEIGHT IS NOT ACHIEVABLE, THE CONTRACTOR SHALL MOUNT DEVICE TO NEAREST WALL AT NO MORE THAN 9 FEET AFF.

R. UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED LOCAL SOUND SPEAKERS IN THE MULTIPURPOSE SPACE SHALL BE MOUNTED AT 14 FEET A.F.F. WITH AN 8 DEGREE DOWNWARD ANGLE. COORDINATE WITH ARCHITECT ON EXACT LOCATIONS AND HEIGHTS PRIOR TO ROUGH IN.

(#) TECHNOLOGY PLAN KEYED NOTES

1. DATA DROPS RESERVED FOR THE BAS SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL INSTALLATION LOCATION.
2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN NOTED AREA. 'D1' TYPICAL TO INDICATE.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
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6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL. ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
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13. INDICATED 'LCD' IS FOR FUTURE DIGITAL SIGNAGE PURPOSES..

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713-865-0008

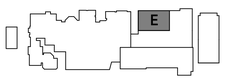
LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD



KEY PLAN

NORTH: PLAN ≈ TRUE

December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2025
3	ADDENDUM 5	01/08/2026

CHECKED BY: CL

DRAWN BY: REN

2ND FLOOR TECHNOLOGY PLAN - AREA E - MP FACILITY FLOOR PLAN

TN-102E

Plot Stamp:
1/8/2026 1:27:09 PM

0"
1"

2ND FLOOR TECHNOLOGY PLAN - AREA F - MP FACILITY FLOOR PLAN
TN-102F
FOR BLUEBEAM LABELING/DOOR:

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

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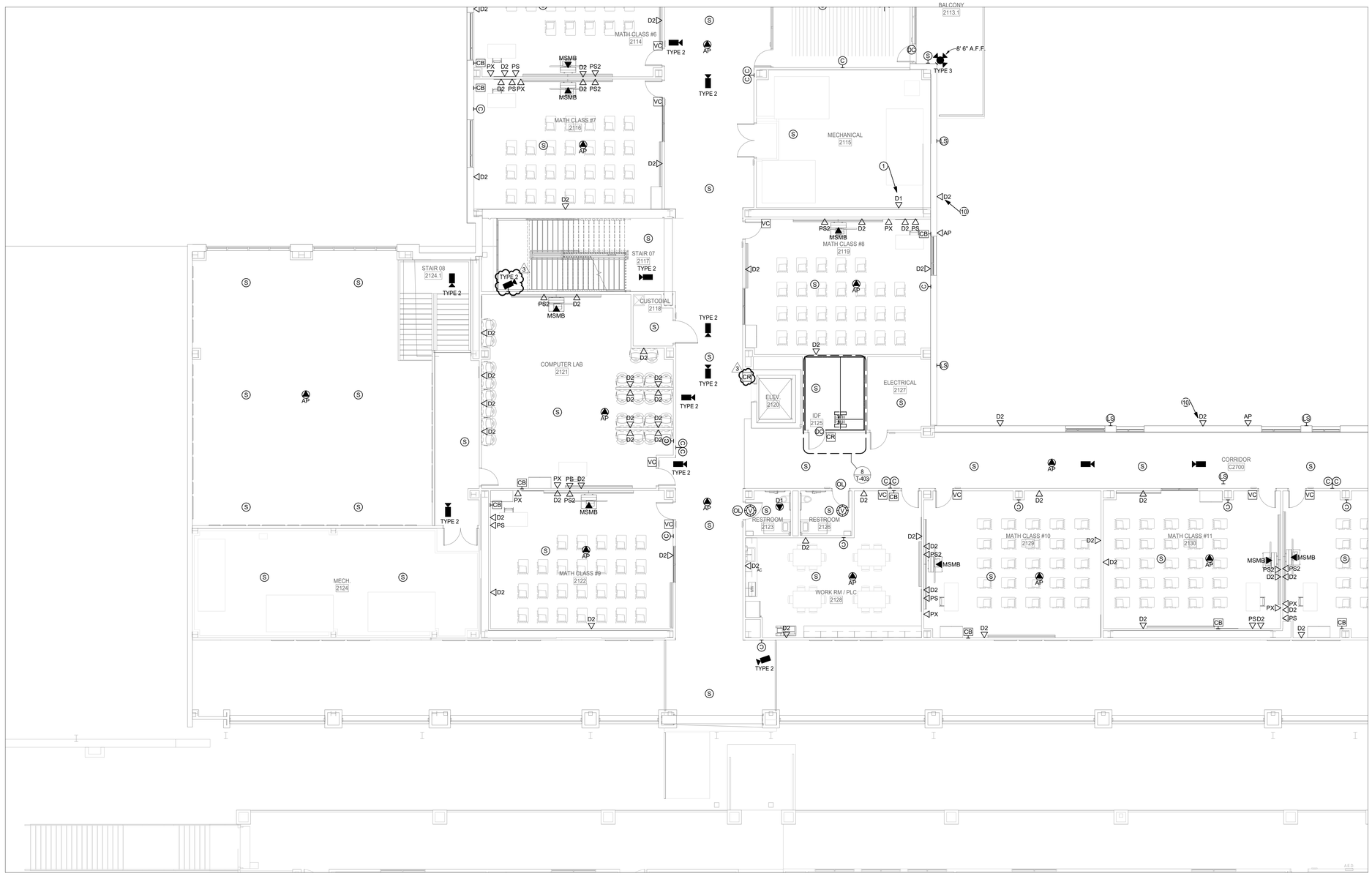
R. UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED LOCAL SOUND SPEAKERS IN THE MULTIPURPOSE SPACE SHALL BE MOUNTED AT 14 FEET A.F.F. COORDINATE WITH ARCHITECT ON EXACT LOCATIONS AND HEIGHTS PRIOR TO ROUGH IN.

(#) TECHNOLOGY PLAN KEYED NOTES

1. DATA DROPS RESERVED FOR THE BAS SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL INSTALLATION LOCATION.
2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN SPED AREA.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
4. INDICATES MOTORIZED VIDEO PROJECTION SCREEN. PROVIDE 10A 120V CONNECTION FROM NEAREST COURTESY CIRCUIT IN SAME ROOM TERMINATED TO MOTOR END OF THE SCREEN HOUSING. PROVIDE 1 QTY. 1" CONDUIT ROUTED TO ASSOCIATED AV RACK AND/OR WALL MOUNT SCREEN CONTROLLER.
5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL. ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
7. INDICATED FLOOR DATA OUTLETS ARE RESERVED FOR EVOLV SCANNER SYSTEM FOR FRONT AREA SECURITY ENTRANCE. COORDINATE WITH PROPER TRADES PRIOR TO ROUGH-IN.
8. INDICATED CEILING MOUNTED DATA OUTLETS ARE RESERVED FOR OFOI LASER LIGHT DEVICES. PROVIDE (1) 20A QUAD RECEPTACLE 6" BESIDE THE DATA OUTLET. COORDINATE FINAL LOCATIONS PRIOR TO ROUGH IN.
9. INDICATES LOCATION OF OFOI RETRACTABLE GOLF SIMULATOR. PROVIDE INFRASTRUCTURE FOR PROJECTOR AND SENSOR DATA INTERCONNECTIONS TO SYSTEM PROCESSOR. COORDINATE PRIOR TO ROUGH IN.
10. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION. MOUNT 23 FEET A.F.F.
11. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION FOR LED TICKER. MOUNT 10 FEET A.F.F.
12. DATA OUTLET RESERVED FOR ELEVATOR EMERGENCY CALL AND SECURITY SYSTEM. PROVIDE (2) CAT6 CABLES FROM NEAREST MDF/IDF TO ELEVATOR CONTROL EQUIPMENT. COORDINATE WITH OWNER, SECURITY, AND ELEVATOR CONTRACTOR FOR FINAL TERMINATION AND INTEGRATION REQUIREMENTS. INSTALL PER ASME A17.1, NEC 620, BICSI, AND LOCAL CODES.



1 2ND FLOOR TECHNOLOGY PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN
SCALE: 1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:27:12 PM

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HOUSTON, TX
713-865-0008

LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

F

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADDENDUM 5	01/08/2026

CHECKED BY: CL
DRAWN BY: REN

2ND FLOOR TECHNOLOGY PLAN - AREA F - MP FACILITY FLOOR PLAN

TN-102F

0"
1"

3RD FLOOR TECHNOLOGY PLAN - AREA C - MP FACILITY FLOOR PLAN
TN-103C

FOR BLUEBEAM LABELING/DOOR:

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

D. EXTERIOR PUBLIC ADDRESS SPEAKERS SHALL BE ZONED SEPARATELY FROM INTERIOR PUBLIC ADDRESS SPEAKERS.

E. SECURITY CONTRACTOR SHALL INSTALL ALL POP-ITS IN ACCESSIBLE LOW CEILING SPACE FOR ALL HIGH-VOLUME CEILINGS, CAFETORIUMS, COMMONS AND GYMNASIUMS.

F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

I. CAMERA ORIENTATION SHOWN DOES NOT INDICATE ACTUAL FIELD OF VIEW. COORDINATE WITH OWNER AND ADJUST CAMERAS FOR PROPER FIELD OF VIEW.

J. PROVIDE WIREGUARDS OR CLEAR POLYCARBONATE COVERS ON DEVICES INSTALLED IN GYMNASIUMS.

K. EVERY VIDEO DISPLAY (LCD, VIDEO PROJECTOR, ETC.) SHALL RECEIVE 1 QTY. DATA CABLE ROUTED TO NEAREST IDF.

L. CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

M. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING OR REINSTALLING DIVISION 27 AND 28 DEVICES SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

N. DATA CONTRACTOR SHALL PROVIDE DATA DROP AT ALL WON-DOOR FIRE PARTITIONS INDICATED ON DRAWINGS. REFERENCE DOOR SCHEDULE FOR LOCATIONS AND QUANTITIES.

O. "VAPE DETECTION SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW VAPE DETECTORS, CABLING, AND MOUNTING EQUIPMENT, IN THE NEWLY CONSTRUCTED BUILDINGS WHERE INDICATED.

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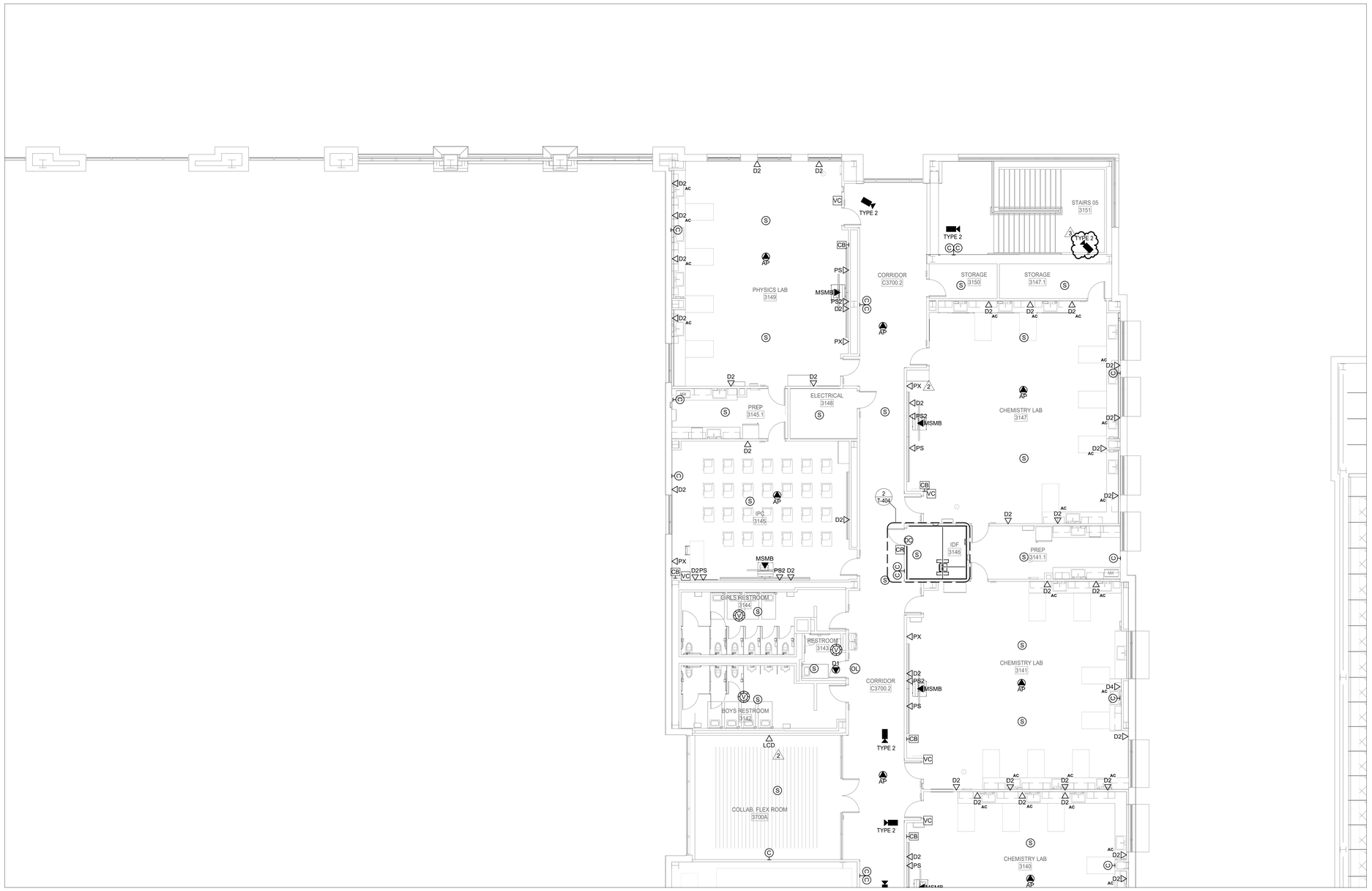

1 **3RD FLOOR TECHNOLOGY PLAN - AREA C NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
1/8/2026 1:27:17 PM

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LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

C

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2025
3	ADDENDUM 5	01/08/2026

CHECKED BY: CL
DRAWN BY: REN

3RD FLOOR TECHNOLOGY PLAN - AREA C - MP FACILITY FLOOR PLAN

TN-103C

0"

1"

3RD FLOOR TECHNOLOGY PLAN - AREA D - MP FACILITY FLOOR PLAN

TN-103D

FOR BLUEBEAM LABELING/DOOR:

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

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G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

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1 **3RD FLOOR TECHNOLOGY PLAN - AREA D NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

Plot Stamp:
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HOUSTON, TX
713-865-0008

LEAF ENGINEERS

PHASE 3B (ATHLETICS, ACADEMIC & MULTI-PURPOSE FACILITY)

1000 Keene St.
Galena Park, TX 77547

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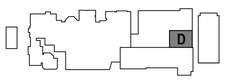
Galena Park ISD



KEY PLAN

NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL
ENGINEER

December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2025
3	ADDENDUM 5	01/08/2026

CHECKED BY: CL

DRAWN BY: REN

3RD FLOOR TECHNOLOGY PLAN - AREA D - MP FACILITY FLOOR PLAN

TN-103D

0"
1"

3RD FLOOR TECHNOLOGY PLAN - AREA E - MP FACILITY FLOOR PLAN
TN-103E
FOR BLUEBEAM LABELING/DOOR:

1 **3RD FLOOR TECHNOLOGY PLAN - AREA E NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

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5. PROVIDE CONNECTION PLATE IN BLEACHER FACE. ROUTE CABLING UNDER BLEACHER SEATING AND SUSPEND TO PREVENT CABLE DAMAGE BY SEATING BEING EXTENDED AND RETRACTED.
6. PROVIDE 1 QTY. 2-GANG DEEP BOX WITH 1 QTY. 1" CONDUIT AT 108 " ABOVE HIGHEST SEATING LEVEL, ROUTED TO "D2" DEVICE IN OFFICIAL FLEX OFFICE 1510 TO PROVIDE CABLING PATHWAY FOR AN OFOI GAME CAMERA. PROVIDE BRUSH PLATE. VERIFY PROPER INSTALLATION LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 2 QTY. CAT6A CABLES FROM THE CAMERA LOCATION ROUTED TO THE "D2" DEVICE. INSTALL CABLING PER SECTION 27 10 00. PROVIDE 1 QTY. 20A 120V DEDICATED CIRCUIT AT CAMERA LOCATION. PROVIDE 2 QTY. 15' PRE-TERMINATED CAT6A PATCH CABLES. REFERENCE SHEET TN-102A FOR LOCATION.
7. INDICATED FLOOR DATA OUTLETS ARE RESERVED FOR EVOLV SCANNER SYSTEM FOR FRONT AREA SECURITY ENTRANCE. COORDINATE WITH PROPER TRADES PRIOR TO ROUGH-IN.
8. INDICATED CEILING MOUNTED DATA OUTLETS ARE RESERVED FOR OFOI LASER LIGHT DEVICES. PROVIDE (1) 20A QUAD RECEPTACLE 6" BESIDE THE DATA OUTLET. COORDINATE FINAL LOCATIONS PRIOR TO ROUGH IN.
9. INDICATES LOCATION OF OFOI RETRACTABLE GOLF SIMULATOR. PROVIDE INFRASTRUCTURE FOR PROJECTOR AND SENSOR DATA INTERCONNECTIONS TO SYSTEM PROCESSOR. COORDINATE PRIOR TO ROUGH IN.
10. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION. MOUNT 23 FEET A.F.F.
11. INDICATED DATA PORTS ARE FOR FUTURE AV CONNECTION FOR LED TICKER. MOUNT 10 FEET A.F.F.
12. DATA OUTLET RESERVED FOR ELEVATOR EMERGENCY CALL AND SECURITY SYSTEM. PROVIDE (2) CAT6 CABLES FROM NEAREST MDF/IDF TO ELEVATOR CONTROL EQUIPMENT. COORDINATE WITH OWNER, SECURITY, AND ELEVATOR CONTRACTOR FOR FINAL TERMINATION AND INTEGRATION REQUIREMENTS. INSTALL PER ASME A17.1, NEC 620, BICSI, AND LOCAL CODES.
13. INDICATED 'LCD' IS FOR FUTURE DIGITAL SIGNAGE PURPOSES..

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E

KEY PLAN
NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2025
3	ADDENDUM 5	01/08/2026

CHECKED BY: CL
DRAWN BY: REN

3RD FLOOR TECHNOLOGY PLAN - AREA E - MP FACILITY FLOOR PLAN

TN-103E

Plot Stamp:
1/8/2026 1:27:23 PM

0"

1"

FOR BLUEBEAM LABELING/DOOR:

3RD FLOOR TECHNOLOGY PLAN - AREA F - MP FACILITY FLOOR PLAN

TN-103F

TECHNOLOGY PLAN GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

B. ALL EXTERIOR CAMERAS, WIRELESS ACCESS POINTS, AND SPEAKERS SHALL BE INSTALLED AT 13 FT. A.F.F. OR 8 FT. 6 IN. AT CANOPY LOCATIONS UNLESS OTHERWISE NOTED.

C. UNLESS OTHERWISE NOTED, ALL EXTERIOR CAMERAS AT CANOPIES, SINGLE DOORS WITH A SMALL CANOPY AND RECESSED EXTERIOR DOORS SHALL BE INSTALLED AT 8 INCHES BELOW CANOPY LEVEL OR AT 8'-6", WHICHEVER IS HIGHER. COORDINATE WITH ARCHITECT FOR CANOPY AND RECESSED EXTERIOR DOOR LOCATIONS.

D. EXTERIOR PUBLIC ADDRESS SPEAKERS SHALL BE ZONED SEPARATELY FROM INTERIOR PUBLIC ADDRESS SPEAKERS.

E. SECURITY CONTRACTOR SHALL INSTALL ALL POP-ITS IN ACCESSIBLE LOW CEILING SPACE FOR ALL HIGH-VOLUME CEILINGS, CAFETORIUMS, COMMONS AND GYMNASIUMS.

F. ACCESS CONTROL CONTRACTOR SHALL CONNECT DOOR HARDWARE CABLE TO ACCESS CONTROL SYSTEM.

G. PROVIDE DOOR CONTACTS ON ALL ROOF HATCHES. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

H. FOR ALL EXTERIOR MOUNTED IP DEVICES, PROVIDE A BISCUIT TERMINATED ON THE INTERIOR OF THE BUILDING AND A PRETERMINATED CABLE CONNECTED FROM THE BISCUIT TO THE DEVICE.

I. CAMERA ORIENTATION SHOWN DOES NOT INDICATE ACTUAL FIELD OF VIEW. COORDINATE WITH OWNER AND ADJUST CAMERAS FOR PROPER FIELD OF VIEW.

J. PROVIDE WIREGUARDS OR CLEAR POLYCARBONATE COVERS ON DEVICES INSTALLED IN GYMNASIUMS.

K. EVERY VIDEO DISPLAY (LCD, VIDEO PROJECTOR, ETC.) SHALL RECEIVE 1 QTY. DATA CABLE ROUTED TO NEAREST IDF.

L. CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.

M. ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING OR REINSTALLING DIVISION 27 AND 28 DEVICES SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.

N. DATA CONTRACTOR SHALL PROVIDE DATA DROP AT ALL WON-DOOR FIRE PARTITIONS INDICATED ON DRAWINGS. REFERENCE DOOR SCHEDULE FOR LOCATIONS AND QUANTITIES.

O. "VAPE DETECTION SCOPE OF WORK": THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW VAPE DETECTORS, CABLING, AND MOUNTING EQUIPMENT, IN THE NEWLY CONSTRUCTED BUILDINGS WHERE INDICATED.

P. HALO SHOULD BE INSTALLED AT LEAST ONE 2'X2' CEILING TILE AWAY FROM ANY AIR VENT OR HVAC UNIT. DO NOT INSTALL HALO NEXT TO ANY VENT/HVAC UNIT.

Q. HALO SENSORS SHALL BE MOUNTED NO MORE THAN 9 FEET AFF. PROVIDE PENDANT MOUNTS WHERE NECESSARY TO ACHIEVE RECOMMENDED MOUNTING HEIGHTS. WHERE RECOMMENDED CEILING MOUNTING HEIGHT IS NOT ACHIEVABLE, THE CONTRACTOR SHALL MOUNT DEVICE TO NEAREST WALL AT NO MORE THAN 9 FEET AFF.

R. UNLESS OTHERWISE NOTED, ALL WALL-MOUNTED LOCAL SOUND SPEAKERS IN THE MULTIPURPOSE SPACE SHALL BE MOUNTED AT 14 FEET A.F.F. COORDINATE WITH ARCHITECT ON EXACT LOCATIONS AND HEIGHTS PRIOR TO ROUGH IN.

(#) TECHNOLOGY PLAN KEYED NOTES

1. DATA DROPS RESERVED FOR THE BAS SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL INSTALLATION LOCATION.
2. PROVIDE 20 FT. SERVICE LOOP IN CEILING FOR FUTURE CAMERAS IN SPED AREA.
3. INDICATES LOCATION OF AV EQUIPMENT RACK. PROVIDE 2 QTY. DATA CABLES ROUTED TO NEAREST IDF. PROVIDE 2 QTY. 20A 120V DEDICATED CIRCUITS INSIDE RACK BACK PAN. PROVIDE A NEMA1 FLUSH MOUNT BOX INSIDE RACK BACK PAN WITH (2) 2" CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING IN SAME ROOM. COORDINATE WITH DEVICE MOUNTING ELEVATION WITH LOCAL SOUND CONTRACTOR PRIOR TO ROUGH IN.
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1 **3RD FLOOR TECHNOLOGY PLAN - AREA F NEW MULTIPURPOSE FACILITY FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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KEY PLAN

NORTH: PLAN = TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
December 5, 2025
LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE: December 5, 2025	PROJECT NUMBER: 240539

DRAWING HISTORY

No.	Description	Date
2	ADDENDUM 3	12/19/2025
3	ADDENDUM 5	01/08/2026

CHECKED BY: CL

DRAWN BY: REN

3RD FLOOR TECHNOLOGY PLAN - AREA F - MP FACILITY FLOOR PLAN

TN-103F

TECHNOLOGY SECTIONS - LOCAL SOUND RACKS
T-405
FOR BLUEBEAM LABELING/OCR:

0"
1"

TECHNOLOGY SECTION PLAN GENERAL NOTES

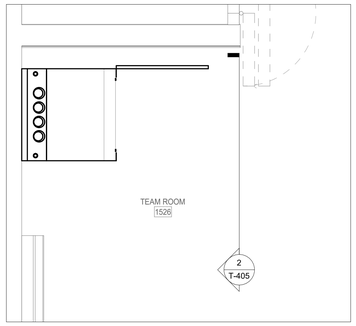
A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

B. RACKS SHALL BE 45U 2-POST RACKS. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS.

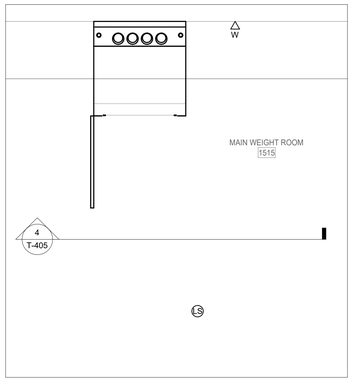
C. DRAWING SHOWS TYPICAL DISTRICT RACK LAYOUT FOR IDF RACK. IN THIS TYPICAL DESIGN, ASSUME 13U OF SPACE BETWEEN BOTTOM-MOST BLANK PLATE AND TOP-MOST UPS.

(#) TECHNOLOGY SECTION PLAN KEYED NOTES

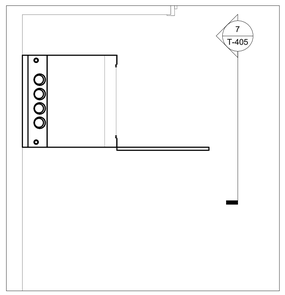
1. 24-PORT MODULAR PATCH PANEL
2. (2) 24-PORT OR (1) 2U 48-PORT MODULAR PATCH PANEL(S)
3. OFOI 48-PORT NETWORK SWITCH
4. SIDE-MOUNTED VERTICAL CABLE MANAGEMENT FOR 2-POST RACK
5. INDICATES GROUNDING BUS BAR.
6. INDICATES LADDER-STYLE CABLE TRAY FOR OVERHEAD CABLE ROUTING.
7. INDICATES TYPICAL FIRE-RATED PLYWOOD BACKBOARD MOUNTED LAGGED INTO METAL STUD BACKER.
8. INDICATES AV RACK INTENDED FOR HOUSING EQUIPMENT FOR MULTIPURPOSE SPACE.



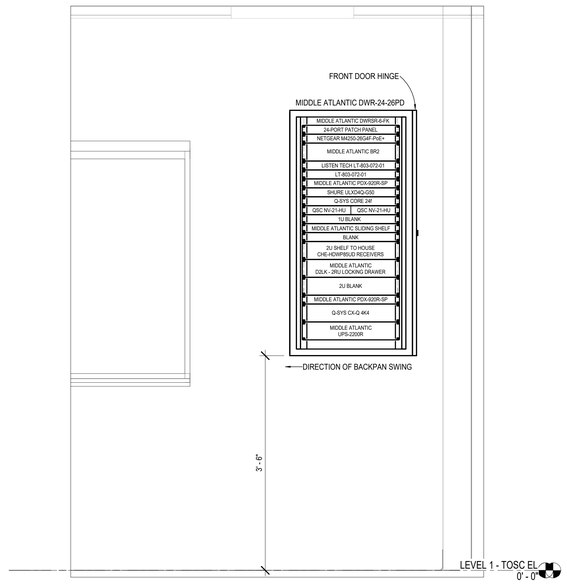
1 1ST FLOOR TECHNOLOGY PLAN - TEAM ROOM 1526 LOCAL SOUND ENLARGED
SCALE: 3/4" = 1'-0"



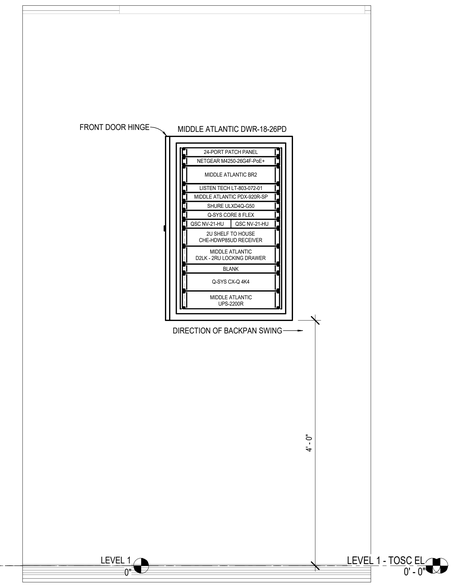
3 1ST FLOOR TECHNOLOGY PLAN - MAIN WEIGHT ROOM 1515 LOCAL SOUND ENLARGED
SCALE: 3/4" = 1'-0"



6 2ND FLOOR TECHNOLOGY PLAN - TESTING STORAGE 2511 LOCAL SOUND RACK ENLARGED
SCALE: 3/4" = 1'-0"



2 TEAM ROOM 1526 LOCAL SOUND RACK ELEVATION
SCALE: 1" = 1'-0"



4 MAIN WEIGHT ROOM 1515 LOCAL SOUND RACK ELEVATION
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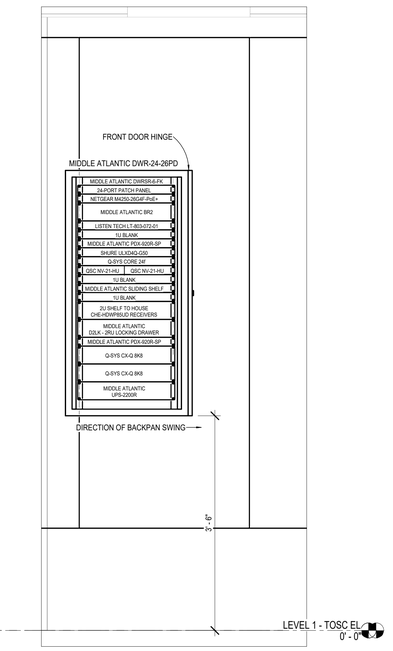
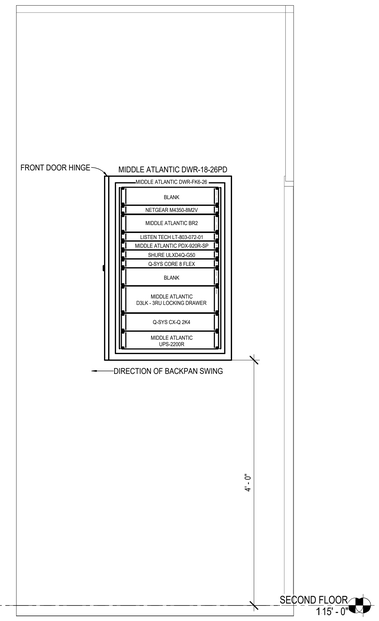


5 IDF 1129 AV RACK ELEVATION
SCALE: 1" = 1'-0"



7 TESTING STORAGE 2511 AUX GYM A & B LOCAL SOUND RACK ELEVATION
SCALE: 1" = 1'-0"

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LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
December 5, 2025	240539

DRAWING HISTORY

No.	Description	Date
3	ADDENDUM 5	01/08/2026

CHECKED BY: CL
DRAWN BY: REN

TECHNOLOGY SECTIONS - LOCAL SOUND RACKS

T-405