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ADDENDUM NO. 02
October 31, 2025

To Drawings and Specifications dated October 17, 2025.

PKG 3D – GPHS New Batting Cages & Facility

Prepared by: PBK
11 Greenway Plaza, 22nd Floor
Houston, TX 77046-1104
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 Pre-proposal Questions

Question 01: We missed the Pre bid meeting, but were curious is there is a sign in sheet would be sent out and if this is still an open public bid that we could submit on.

i. Response: Please refer to ADD 01 for sign in sheet.

Question 02: This proposal includes the normal buydowns down to the amount we usually do, but the contract states that deductibles cannot exceed $1,000 - this is not possible as the market will not provide deductibles that low. With a project of this size, the lowest we can go is $5,000 but pricing will meet minimum premiums and far exceed the costs currently presented. You will need to negotiate the deductible amounts as stated in the contract with the customer. Please let me know if you want to see pricing for the lowest possible deductibles offered by the market.

i. Response: $10,000 is acceptable.

Question 03: I was looking at the specs for GPISD Batting Cages, and I don't see any acceptable control manufactures listed. Spec section Direct Digital Controls 23 09 23-2 (page 720) mentions refer to 01 23 00 Alternates for acceptable manufactures. But that sections on the specs doesn't exist, it jumps from Allowances 01 21 00 - 3 to Product Substitution Procedures 01 25 13 – 1. Can you please give me a list of acceptable manufactures?

i. Response: Please refer to ADD 01 for Alternates provided.

Question 04: The drawings show locker type A to be 18"x18"x72" but the specs show locker type A as 34"x22"x72" and OFCI. I'm assuming we want locker Type D from the specs. Just wanted to clarify for subcontractors.

i. Response: Please refer to revised spec 10 51 13 Metal Lockers attached.

SPECIFICATIONS

Item No. 1 **10 51 13-2 METAL LOCKERS**

A. Issued specification in its entirety.
   1. Revised locker types

DRAWINGS

STRUCTURAL

Item No. 01 **S-101 – FOUNDATION PLAN**

1. Added Ramp and stairs South of Grid line BC.
2. Plan notes have been updated as shown in the sheet.

Item No. 02 **S-102 – ROOF FRAMING PLAN**

1. Added notes for large fan support and ladder.

Item No. 03 **S-302 – GRADE BEAM NOTES AND TYP DETAILS**

1. Grade beam depths have been updated as shown in the sheet.

Item No. 04 **S-304 – GENERAL FOUNDATION NOTES AND TYP DETAILS**

1. Spread footing reinforcing schedule has been updated as shown in the sheet.

Item No. 05 **S-305 – GENERAL FOUNDATION NOTES AND TYP DETAILS**

1. Details 5 & 6 have been added to the sheet.

ARCHITECTURAL

Item No. 01 **A-101 – LEVEL 1 – FLOOR PLAN**

1. Replace sheet in its entirety.
2. Added roof hatch and ladder to plans

Item No. 02 **A-201 – LEVEL 1 – CEILING PLAN**

1. Replace sheet in its entirety.
2. Revised ceiling plan and ceiling materials legend.
3. Revised ceiling detail 02.

Item No. 03 **A-501 – EXTERIOR ELEVATIONS**

1. Replace sheet in its entirety.
2. Added elevations 6 & 7.

Item No. 04 **A-601 – BUILDING SECTIONS & WALL SECTIONS**

1. Replace sheet in its entirety.
2. Revised sections 4, 10, 11, & 16.

Item No. 05 **A-602 – WALL SECTIONS & PARTITION TYPES**

1. Replace sheet in its entirety.
2. Revised details 5, 6, 7, & 8.
3. Deleted details 9 & 10

MECHANICAL

Item No. 01 **M-101 – 1st FLOOR MECHANICAL PLAN – BATTING CAGES & NETTING PLANS**

1. 01/M-101 – added HVLS-01 and wall mounted switch serving batting cage and hitting stations
2. 01/M-101 – Updated RA ductwork routing into space due to structural conflicts.
3. 01/M-101 – Corrected Keynote number by louver
4. 01/M-101 – Corrected Return Grille label for grille in A107-Boys Dressing
5. 02/M-101 – Updated routing of RA ductwork into building due to structural conflicts.

Item No. 02 **M-501 – MECHANICAL SCHEDULES**

1. Added HVLS fan schedule
2. Removed/updated data for FCU-01/ACCU-01 on Mini split schedule.

10/31/2025

END OF ADDENDUM NO. 02

SECTION 10 51 13 - METAL LOCKERS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Metal lockers.

B. Locker benches.

1.2 RELATED REQUIREMENTS

A. Section 03 30 00 - Cast-in-Place Concrete: Concrete base construction.

B. Section 06 10 00 - Rough Carpentry: Wood base construction.

C. Section 06 10 00 - Rough Carpentry: Wood blocking and nailers.

D. Section 06 20 00 - Finish Carpentry: Bench tops for locker bench support brackets.

1.3 REFERENCE STANDARDS

A. {RSTEMP#undefined}

B. ASTM A240/A240M - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications; 2024b.

C. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.

D. ASTM A879/A879M - Standard Specification for Steel Sheet, Zinc Coated by the Electrolytic Process for Applications Requiring Designation of the Coating Mass on Each Surface; 2022.

E. ASTM A1008/A1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Required Hardness, Solution Hardened, and Bake Hardenable; 2023, with Editorial Revision.

F. ASTM F1267 - Standard Specification for Metal, Expanded, Steel; 2018 (Reapproved 2023).

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

1.4 SUBMITTALS

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

B. Product Data: Manufacturer's published data on locker construction, sizes, and accessories.
   1. Wired Access Control: Include power requirements and standard wiring diagrams for specified products.

C. Shop Drawings: Indicate locker plan layout, numbering plan and combination lock code.
   1. Wired Access Control: Provide schematic system riser diagram indicating component interconnections. Include requirements for interface with other systems.

D. Full Size Sample: One full-size locker of each construction specified for evaluation of construction.

E. Samples: Submit two samples 6 inches by 6 inches in size showing color and finish of metal locker material.

F. Manufacturer's Installation Instructions: Indicate component installation assembly.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Protect locker finish and adjacent surfaces 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. Art Metal Products: www.artmetalproducts.com.

2. ASI Storage Solutions: www.asi-storage.com.
3. DeBourgh Manufacturing Co: www.debourgh.com.
4. List Industries, Inc: www.listindustries.com.
5. Lockers MFG: www.lockersmfg.com.
6. Lyon Workspace Products: www.lyonworkspace.com.
7. Republic Storage Systems Co: www.republicstorage.com.
8. Tennsco Storage: www.tennsco.com.
9. WEC Manufacturing: www.itswec.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 LOCKER APPLICATIONS

A. ~~Student Lockers Type 'D': Metal lockers, free-standing for base indicated on Drawings.~~
1. ~~Width: 18 inches.~~
2. ~~Depth: 18 inches.~~
3. ~~Height: 72 inches.~~
4. ~~Configuration: Single tier.~~
5. ~~Fittings: Size and configuration as indicated on drawings.~~
6. ~~Ventilation: Louvers at top and bottom of door panel.~~
7. ~~Locking: Padlock hasps, for padlocks provided by Owner.~~
   a. ~~Locking Action: Positive, automatic type, whereby locker may be locked when open, then closed without unlocking.~~
8. ~~Color: To be selected from manufacturer's full range by Architect.~~

B. Student Lockers Type ~~'F'~~ 'A': Metal lockers, free-standing for base indicated on Drawings.
1. Width: 18 inches.
2. Depth: 18 inches.
3. Height: 72 inches.
4. Configuration: Two tier with hooks.
5. Ventilation: Louvers at top and bottom of door panel.
6. Locking: Padlock hasps, for padlocks provided by Owner.
   a. Locking Action: Positive, automatic type, whereby locker may be locked when open, then closed without unlocking.
7. Color: To be selected from manufacturer's full range by Architect.

C. ~~Varsity Lockers - Type 'A': Metal lockers, free-standing for base indicated on Drawings.~~
1. ~~OFCI~~
2. ~~Width: 34 inches.~~
3. ~~Depth: 22 inches.~~
4. ~~Height: 72 inches.~~
5. ~~Configuration: Single tier.~~
6. ~~Ventilation: Perforated side panels and doors.~~
7. ~~Locking: Padlock hasps, for padlocks provided by Owner.~~
   a. ~~Locking Action: Positive, automatic type, whereby locker may be locked when open, then closed without unlocking.~~
8. ~~Provide sloped top.~~
9. ~~Color: To be selected from manufacturer's full range by Architect.~~

D. ~~Varsity Lockers - Type 'B': Metal lockers, free-standing for base indicated on Drawings.~~
1. ~~Width: 34 inches.~~
2. ~~Depth: 22 inches.~~
3. ~~Height: 72 inches.~~
4. ~~Configuration: Single tier.~~

5. ~~Ventilation: Perforated side panels and doors.~~
6. ~~Locking: Padlock hasps, for padlocks provided by Owner.~~
   a. ~~Locking Action: Positive, automatic type, whereby locker may be locked when open, then closed without unlocking.~~
7. ~~Provide sloped top.~~
8. ~~Color: To be selected from manufacturer's full range by Architect.~~

E. ~~Open-Front Turnout Gear Lockers Type 'C': Metal lockers, free-standing.~~
1. ~~Width:12 inches.~~
2. ~~Depth: 15 inches.~~
3. ~~Height: 15 inches.~~
4. ~~Configuration: 5 tier.~~
5. ~~Fittings: Size and configuration as indicated on drawings.~~
6. ~~Ventilation: Perforated side panels, doors, and back panels.~~
7. ~~Door Configuration: Pair, solid with standard horizontal louvers top and bottom.~~
8. ~~Latching: Three-point, Cremone latching, with padlockable turn handle.~~
9. ~~Locking: Padlock hasps, for padlocks provided by Owner.~~
   a. ~~Locking Action: Positive, automatic type, whereby locker may be locked when open, then closed without unlocking.~~
10. ~~Color: To be selected from manufacturer's full range by Architect.~~

2.3 METAL LOCKERS

A. Accessibility: Design units indicated on drawings as 'accessible' to comply with ICC A117.1 and ADA Standards.

B. Locker Case Construction:
1. Heavy-Duty, Welded Construction: Made of formed and welded together sheet steel; metal edges finished smooth without burrs; baked enamel or powder coat finished inside and out.
   a. Assembly: Do not use bolts, screws, or rivets to assemble locker bodies.
   b. Locker Body Components: Formed and flanged from steel sheet of the following type and minimum thicknesses:
      1) Unperforated Steel Sheet: Commercial Steel (CS), Type B, supplied for exposed applications and complying with ASTM A1008/A1008M and the following:
         (a) Uncoated.
         (b) Zinc-Coated by the Hot-Dip Process: Comply with ASTM A653/A653M, coating designation G60/Z180.
         (c) Zinc-Iron-Alloy-Coated by the Hot-Dip Process: Comply with ASTM A653/A653M, coating designation A40/ZF120.
         (d) Zinc-Coated by the Electrolytic Process: Comply with ASTM A879/A879M, coating designation 30Z.
         (e) Perforations: Manufacturer's standard pattern of square holes.
      2) Expanded Steel Sheet: Made from ASTM A1008/A1008M carbon steel sheet and complying with ASTM F1267, Type II, expanded and flattened, style 3/4 - 16, with a minimum 70 percent open area.
         (a) Class 1, uncoated.
         (b) Class 2, hot-dip zinc-coated, galvanized or galvannealed.
      3) Body and Shelves: 16 gauge, 0.0598 inch (1.52 mm).
      4) Backs: 18 gauge, 0.0478 inch (1.21 mm).
      5) Base: 18 gauge, 0.0478 inch (1.21 mm).
         (a) Height: 4 inches (100 mm).
      6) Legs: Manufacturer's standard
         (a) Form by extending frame members.
         (b) Fabricate from 14 gauge, 0.0747 inch (1.90 mm) nominal thickness steel sheet specified above, welded to bottom of locker.

(c) Height: 6 inches (152 mm).

c. Frames: Formed channel shape, welded and ground flush, welded to body, resilient gaskets and latching for quiet operation.
1) Door Frame: 16 gauge, 0.0598 inch (1.52 mm), minimum.

d. Where ends or sides are exposed, provide flush panel closures.

e. Provide filler strips where indicated or required, securely attached to lockers.

2. Standard-Duty, Knocked Down Construction: Made of formed sheet steel; metal edges finished smooth without burrs; baked enamel or powder coat finished inside and out.

a. Locker Body Components: Formed and flanged from steel sheet of the following type and minimum thicknesses:
1) Unperforated Steel Sheet: Commercial Steel (CS), Type B, supplied for exposed applications and complying with ASTM A1008/A1008M and the following:
(a) Uncoated.
(b) Zinc-Coated by the Hot-Dip Process: Comply with ASTM A653/A653M, coating designation G60/Z180.
(c) Zinc-Iron-Alloy-Coated by the Hot-Dip Process: Comply with ASTM A653/A653M, coating designation A40/ZF120.
(d) Zinc-Coated by the Electrolytic Process: Comply with ASTM A879/A879M, coating designation 30Z.
(e) Perforations: Manufacturer's standard pattern of square holes.
2) Expanded Steel Sheet: Made from ASTM A1008/A1008M carbon steel sheet and complying with ASTM F1267, Type II, expanded and flattened, style 3/4 - 16, with a minimum 70 percent open area.
(a) Class 1, uncoated.
(b) Class 2, hot-dip zinc-coated, galvanized or galvannealed.
3) Body and Shelves: 24 gauge, 0.0239 inch (0.61 mm).
4) Backs: 24 gauge, 0.0239 inch (0.61 mm).
5) Base: 18 gauge, 0.0478 inch (1.21 mm).
(a) Height: 4 inch (100 mm).
6) Legs: Manufacturer's standard.
(a) Form by extending frame members.
(b) Fabricate from 14 gauge, 0.0747 inch (1.90 mm) nominal thickness steel sheet specified above, welded to bottom of locker.
(c) Height: 6 inches (152 mm).

b. Frames: Formed channel shape, welded and ground flush, welded to body, resilient gaskets and latching for quiet operation.
1) Door Frame: 16 gauge, 0.0598 inch (1.52 mm), minimum.

c. Where ends or sides are exposed, provide flush panel closures.

d. Provide filler strips where indicated, securely attached to lockers.

C. Drawer Base with Bench:
1. Top, Bottom, Sides, Back, and Drawer: 16 gauge, 0.0598 inch (1.52 mm) sheet steel.
2. Slides: Steel, full extension arms, ball bearings; self-closing; capacity as recommended by manufacturer for drawer height and width.
3. Integral self latching mechanism triggered by operation of wardrobe door.
4. Bench: Mixed hardwood.

D. Latches and Door Handles: Manufacturer's standard.
1. Latching Components: 300 Series Stainless Steel (ASTM A240/A240M).
2. Latching: Manufacturer's standard for locking arrangement selected.
a. Three-Point Lift Handle Gravity Latch: Pocket-mounted, provide for doors 18 inches (457 mm) or taller.
1) Handle Pocket, Recess: Stainless steel flush-mounted cup recessed into face of door.

2) Handle: Steel finger lift mechanism with exposed portion encased in molded plastic trigger.
   (a) Padlock Eye: Integral with lift trigger, sized for use with 9/32 inch (7.1 mm) diameter padlock shackles.
3) Latching Mechanism: Spring activated nylon slide latch enclosed in steel latch channel allows closing of door while padlock or built-in lock is in position.
4) Lock Hole Filler Plate: Manufacturer's standard. Provide for lockers intended to be unsecured or secured with padlocks.
5) Rubber bumpers riveted to door stops for silent operation.

b. Three-Point Pull Handle Gravity Latch: Surface-mounted, provide for doors 18 inches (457 mm) or taller.
1) Handle: Steel finger lift mechanism.
2) Latching Mechanism: Spring activated nylon slide latch enclosed in steel latch channel allows closing of door while padlock or built-in lock is in position.
3) Padlock Eye: Integral with lift handle, sized for use with 9/32 inch (7.1 mm) diameter padlock shackles.
4) Lock Hole Filler Plate: Manufacturer's standard. Provide for lockers intended to be unsecured or secured with padlocks.
5) Rubber bumpers riveted to door stops for silent operation.

c. Three-Point/Three-Sided Cremone Latch.
1) Latching mechanism operated by a steel handle welded to a three-point Cremone-type assembly.
2) Latching rods, 3/8 inch (9.5 mm) diameter, engage top and bottom edge of locker frame. 3/16 inch (4.8 mm) thick center latch engages door jamb.

d. Single-Point Latch: Provide for doors indicated.
1) Stationary latch welded securely to locker frame.
2) Latch extends no more than 1-1/4 inch (31.8 mm) into locker opening, penetrating through cup.
3) Flush-mounted, recessed stainless steel cup in a formed door with 18 gauge, 0.0478 inch (1.21 mm) vertical back panel stiffener.

e. Spring Latch: Provide for box-size lockers and where indicated.
1) 16 gauge, 0.0598 inch (1.52 mm) cold rolled steel, zinc plated with a 10 gauge, 0.1345 inch (3.42 mm) latch and 16 gauge, 0.0598 inch (1.52 mm) stainless steel lock hasp and completely enclosed stainless steel spring.
2) Assembled using six nickel-plated rivets.
3) Equip box locker doors with a padlock hasp and a stainless steel strike plate with an integral handle pull. Box locker doors may also be equipped with built-in locks.

f. Access Control Single-Point Latch: Provide for doors indicated.
1) Wireless integrated access control locking devices.
2) Stationary latch welded securely to locker frame.
3) Rubber bumpers riveted to door stops for silent operation.

E. Cup, Pocket: Manufacturer's standard, with integral pull, and recessed surface punched for installation of lock, latch lift mechanism, and number plate.

F. Hinges: Continuous piano hinge with powder coat finish to match locker color.

G. Hinges: Heavy-duty, 7-knuckle type; two for doors under 42 inches (1050 mm) high; three for doors over 42 inches (1 050 mm) high.

H. Sloped Top: 20 gauge, 0.0359 inch (0.91 mm), with closed ends.

I. Trim: 20 gauge, 0.0359 inch (0.91 mm).

J. Number Plates: Provide oval shaped aluminum plates. Form numbers 1 inch high of block font style with ADA designation, in contrasting color.

K. Locks: Locker manufacturer's standard type indicated in Applications article above.

L. RFID Lock System Components and Accessories: Manufacturer's standard.
   1. Graphic user interface for central configuration, monitoring and management of locker system.
   2. Locker management software with ability to generate audit trail: Logging all actions on the lock including date, time, lock status, RFID media type, and serial number in a centralized SQL database.
   3. Programmable networked RFID locking device
   4. Contactless RFID Media: Cards, wristbands, key fobs, and other NFC connected devices.
   5. Power: Battery operated.
   6. Connectivity: Wired.

M. Locker Groups: Gang lockers in groups of two and assemble in factory for shipment as a single unit.

2.4 LOCKER BENCHES

A. Locker Benches: Stationary type; bench top of laminated birch; painted steel pedestals.
   1. Accessibility: Comply with ICC A117.1 and ADA Standards.
   2. Height: _____ inch (_____ mm).
   3. Length: _____ inch (_____ mm).

B. Locker Bench Support Brackets: Welded structural aluminum single arm floor mount pedestal bench support brackets; pre-drilled for bench top material attachment and for wall anchorage.
   1. Accessibility: Comply with ICC A117.1 and ADA Standards.
   2. Height: _____ inch (_____ mm).
   3. Depth: _____ inch (_____ mm).
   4. Load Capacity per Bracket: 400 pounds (181 kg).
   5. Finish: Clear anodized.
   6. Bracket Spacing: 36 inches on center (914 mm on center), maximum. Project-specific spacing to be determined based on field measurements.
   7. Bracket-to-Wall Attachment: Fasteners/anchors recommended by bracket manufacturer for wall construction conditions encountered.
   8. Products:
      a. Rakks/Rangine Corporation; Bench Support Brackets: http://www.rakks.com/#sle.
      b. Substitutions: See Section 01 60 00 - Product Requirements.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that prepared bases are in correct position and configuration.

B. Verify bases and embedded anchors are properly sized.

C. Verify that power and ethernet are installed and enabled. See manufacturer drawings for recommended outlet or junction box placement.

3.2 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Place and secure on prepared base.

C. Install lockers plumb and square.

D. Secure lockers with anchor devices to suit substrate materials. Minimum Pullout Force: 100 pounds (445 N).

E. Bolt adjoining locker units together to provide rigid installation.

F. Install end panels, filler panels, and sloped tops.

G. Install fittings if not factory installed.

H. Replace components that do not operate smoothly.

3.3 CLEANING

A. Clean locker interiors and exterior surfaces.

END OF SECTION 10 51 13

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FOUNDATION PLAN
S-101
FOR BLUEBEAM LABELING/DOOR:

0"
1"

(2) -#5 HAIRPIN AT EACH COLUMN LOCATION; REF PLAN

HAIRPIN AT INTERIOR COLUMN FLANGE WIDTH+8"

HAIRPIN AT EDGE COLUMN FLANGE WIDTH+8"

HAIRPIN LEGEND

*****GC AND PEMB MANUF NOTE*****

KUBALA ENGINEERS HAS MADE SIGNIFICANT EFFORTS TO SHOW AS MUCH OF THE REQUIRED MISCELLANEOUS STEEL AS POSSIBLE TO AID THE PEMB MANUFACTURER IN DETERMINING THEIR SCOPE OF WORK; HOWEVER, NOT ALL MISCELLANEOUS ITEMS ARE SHOWN, AND THE GENERAL CONTRACTOR AND THEIR SELECTED PRE-ENGINEERED METAL BUILDING MANUFACTURER ARE HEREBY INFORMED THAT THEY ARE SOLELY RESPONSIBLE FOR COMPLETELY REVIEWING ALL DRAWINGS AND SPECIFICATIONS FROM ALL DISCIPLINES AND ENSURING THAT PROPER SUPPORT FOR ALL ITEMS HAVE ADEQUATE SUPPORT. THIS INCLUDES BUT IS NOT LIMITED TO: CEILINGS AND CEILING ASSEMBLIES, WALLS AND WALL ASSEMBLIES, STOREFRONTS AND STOREFRONT ASSEMBLIES, WINDOWS, DOORS, FOLDING PARTITIONS, MEP EQUIPMENT, AND VARIOUS STORM PIPING AND HYDRONIC PIPING RUNS, SUSPENDED ELECTRICAL COMPONENTS, SUSPENDED KITCHEN EQUIPMENT AND VENT HOODS, ARCHITECTURAL FINISHES/CLADDINGS, FURR-DOWNS, ROOF TOP EQUIPMENT, ROOF TOP SCREEN-WALLS, ROOF HATCHES.

GC NOTE:

THE PORTAL FRAME LOCATIONS SHOWN ON PLAN ARE FOR REFERENCE ONLY; GC SHALL COORDINATE THE ACTUAL LOCATION WITH ARCHITECTURE AND PRE-ENGINEERED METAL BUILDING DRAWINGS; TYPICAL FOR ALL BUILDINGS

*****GC AND PEMB MAUF. NOTE*****

1. GC AND PEMB MANUF SHALL COORDINATE THE LOCATION OF MECH PENETRATIONS AND FRAMING AROUND THEM W/MEP AND ARCH DRAWINGS.
2. PEMB MNUF. PROVIDE THE ROOF FRAMING AND SIZES
3. PEMB MANUFACTURER SHALL COORDINATE WITH ARCH AND OTHER CONSULTANT DRAWINGS FOR THE REQUIRED MISCELLANEOUS STEELS AND DESIGN THEM ACCORDINGLY.
4. GC AND PEMB MANUF SHALL COORDINATE THE BEAM SIZES AND MIN. REQUIRED CLEAR SPACE BETWEEN SECOND FLOOR AND ROOF FRAMING ABOVE THE SECOND FLOOR WITH MEP AND ARCH DWGS TO AVOID ANY CONFLICTS.
5. ALL PEMB FRAMINGS AND PURLINS ALONG HYDRONIC PIPES RUN SHALL BE DESIGNED FOR SUSPENDED PIPE WEIGHT. IT'S THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE LOCATION, SIZES AND HOW OFTEN PIPES WILL BE HUNG (0'-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)

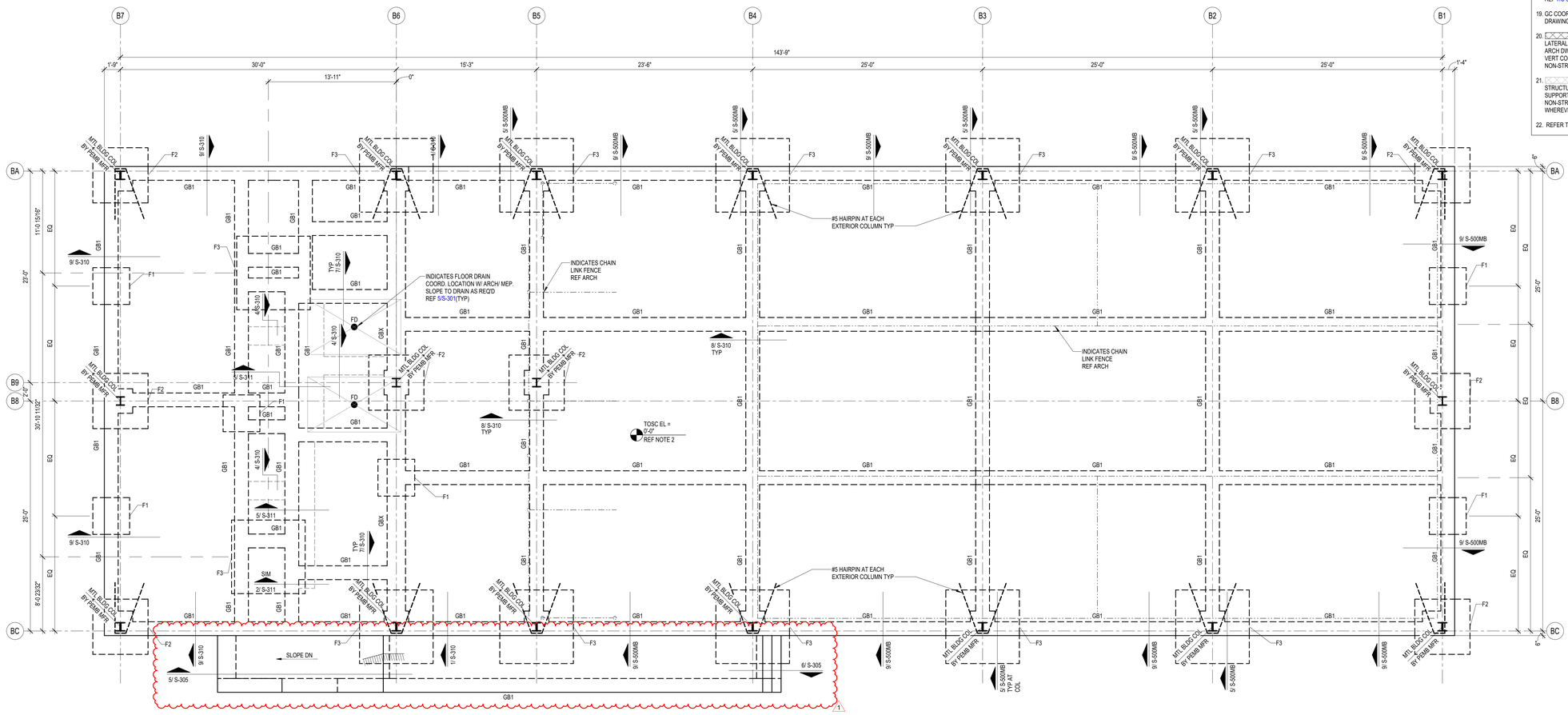
FOUNDATION PLAN NOTES

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. 6" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH: #4 AT 1'-0" OC EACH WAY, ON 3 1/2" CHAIRS SPACED AT 2'0" OC EACH WAY. PLACE THE SLAB ON A 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL, REFER TO THE 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 = -4'-0" UON.
TOP OF INTERIOR PIER ELEVATION WITH GRADE BEAM SHALL BE = -4'-0" UON.
TOP OF EXTERIOR PIER ELEVATION SHALL BE = -4'-0" 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-301FOR FLOOR DRAIN DETAIL.
16. AT INTERIOR CMU WALL LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE SLAB TURNDOWN PER DETAIL 4/S-310TYPICAL AT INTERIOR GLAZING LOCATIONS, WHERE THE GRADE BEAM IS NOT SHOWN, PROVIDE TURNDOWN SIMILAR TO DETAIL 4/S-310, 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. REFER TO S-300 FOR CONCRETE FINISHES NOTES.



1 FOUNDATION PLAN
3/16" = 1'-0"

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
2025/10/17
Kubala Engineers
F-23612

CLIENT

DATE	PROJECT NUMBER
2025/10/17	240539

DRAWING HISTORY

No.	Description	Date
1	Addendum 02	2025/10/31

CHECKED BY: Checker

DRAWN BY: Author

FOUNDATION PLAN

S-101

Plot Stamp:
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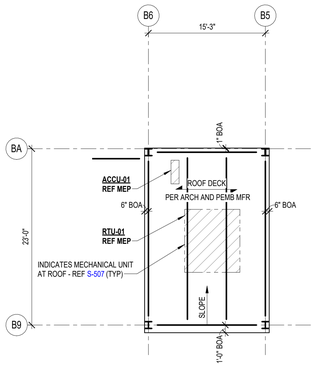
0"

1"

ROOF FRAMING PLAN
S-102

FOR BLUEBEAM LABELINGDOOR:



2 LOW ROOF FRAMING PLAN
1/8" = 1'-0"

*****GC AND PEMB MANUF NOTE*****

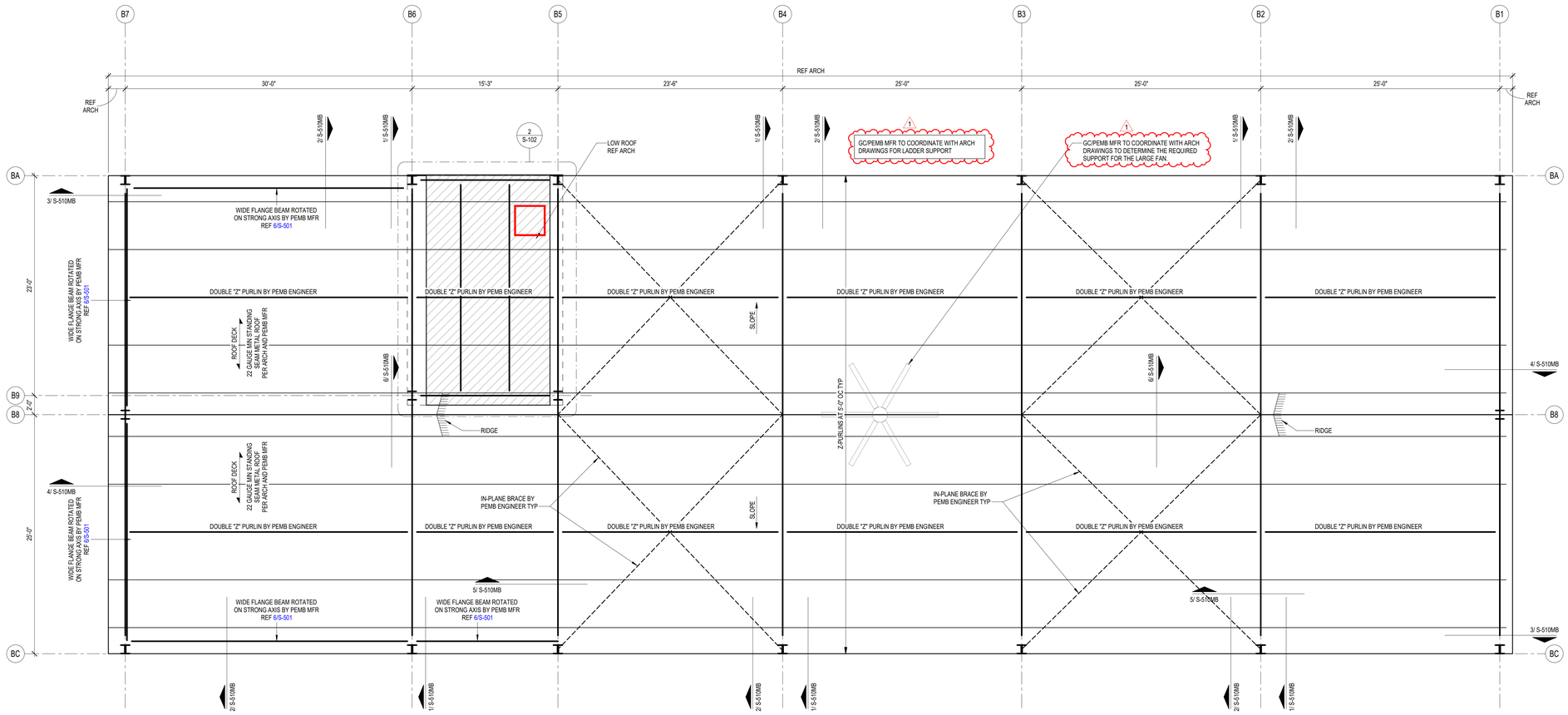
KUBALA ENGINEERS HAS MADE SIGNIFICANT EFFORTS TO SHOW AS MUCH OF THE REQUIRED MISCELLANEOUS STEEL AS POSSIBLE TO AID THE PEMB MANUFACTURER IN DETERMINING THEIR SCOPE OF WORK; HOWEVER, NOT ALL MISCELLANEOUS ITEMS ARE SHOWN, AND THE GENERAL CONTRACTOR AND THEIR SELECTED PRE-ENGINEERED METAL BUILDING MANUFACTURER ARE HEREBY INFORMED THAT THEY ARE SOLELY RESPONSIBLE FOR COMPLETELY REVIEWING ALL DRAWINGS AND SPECIFICATIONS FROM ALL DISCIPLINES AND ENSURING THAT PROPER SUPPORT FOR ALL ITEMS HAVE ADEQUATE SUPPORT, THIS INCLUDES BUT IS NOT LIMITED TO: CEILINGS AND CEILING ASSEMBLIES, WALLS AND WALL ASSEMBLIES, STOREFRONTS AND STOREFRONT ASSEMBLIES, WINDOWS, DOORS, FOLDING PARTITIONS, MEP EQUIPMENT, AND VARIOUS STORM PIPING AND HYDRONIC PIPING RUNS, SUSPENDED ELECTRICAL COMPONENTS, SUSPENDED KITCHEN EQUIPMENT AND VENT HOODS, ARCHITECTURAL FINISHES/CLADDINGS, FURR-DOWNS, ROOF TOP EQUIPMENT, ROOF TOP SCREEN-WALLS, ROOF HATCHES.

*****GC AND PEMB MAUF. NOTE*****

1. GC AND PEMB MANUF SHALL COORDINATE THE LOCATION OF MECH PENETRATIONS AND FRAMING AROUND THEM W/MEP AND ARCH DRAWINGS.
2. PEMB MNUF. PROVIDE THE ROOF FRAMING AND SIZES
3. PEMB MANUFACTURER SHALL COORDINATE WITH ARCH AND OTHER CONSULTANT DRAWINGS FOR THE REQUIRED MISCELLANEOUS STEELS AND DESIGN THEM ACCORDINGLY.
4. GC AND PEMB MANUF SHALL COORDINATE THE BEAM SIZES AND MIN. REQUIRED CLEAR SPACE BETWEEN SECOND FLOOR AND ROOF FRAMING ABOVE THE SECOND FLOOR WITH MEP AND ARCH DWGS TO AVOID ANY CONFLICTS.
5. ALL PEMB FRAMINGS AND PURLINS ALONG HYDRONIC PIPES RUN SHALL BE DESIGNED FOR SUSPENDED PIPE WEIGHT. IT'S THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE LOCATION, SIZES AND 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)

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. REF ARCH FOR TOP OF WALL ELEVATIONS.
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. GC COORDINATE ALL PENETRATIONS AND UNDERGROUND UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
10. CONTRACTOR TO VERIFY ALL SLAB EDGE DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
11. REF DETAIL 4/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.
12. ——— - - - ——— INDICATES PIPING RUN. REF MEP DRAWINGS; GC SHALL COORDINATE GIVEN LOAD WITH JOIST MANUFACTURER. REF SHEET S-011.
13. REF S0.XX SERIES DRAWINGS FOR GENERAL NOTES AND TYP DETAILS
14. REF S4.XX SERIES DRAWINGS FOR CMU DETAILS.
15. REF S5.XX SERIES DRAWINGS FOR STEEL FRAMING DETAILS.
16. REF S6.XX SERIES DRAWINGS FOR STEEL BRACE ELEVATIONS AND DETAILS.
17. 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 PEMB ROOF FRAMING PLAN
3/16" = 1'-0"

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LICENSED PROFESSIONAL ENGINEER
2025/10/17
Kubala Engineers
F-23612

CLIENT

DATE	PROJECT NUMBER
2025/10/17	240539

DRAWING HISTORY

No.	Description	Date
1	Addendum 02	2025/10/31

CHECKED BY: Checker

DRAWN BY: Author

ROOF FRAMING PLAN

S-102

Plot Stamp:
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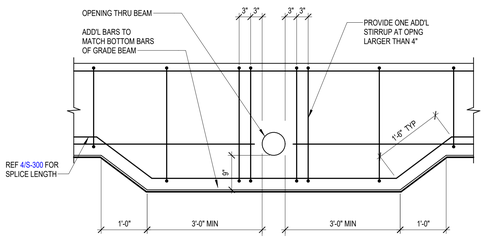
GENERAL GRADE BEAM NOTES AND TYP DETAILS
S-302

FOR BLUEBEAM LABELING/OCR:

GRADE BEAM:

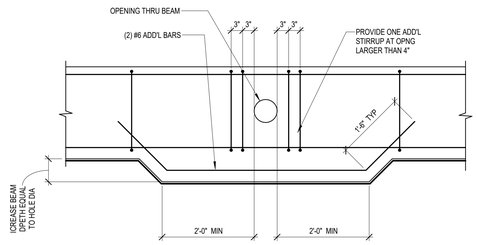
ETV

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.



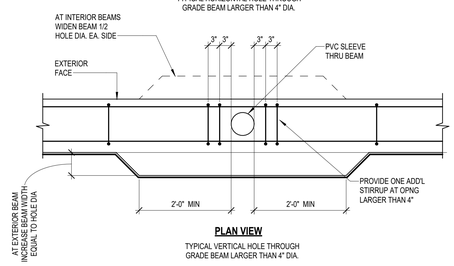
SECTION VIEW

TO BE USED WHERE OPENING CONFLICTS WITH BOTTOM BAR REINFORCEMENT



SECTION VIEW

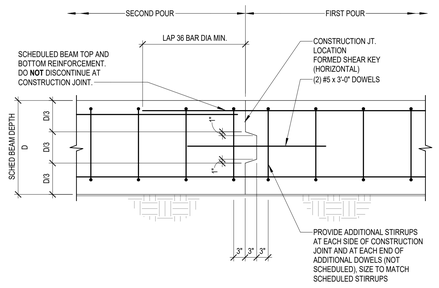
TYPICAL HORIZONTAL HOLE THROUGH GRADE BEAM LARGER THAN 4" DIA.



PLAN VIEW

TYPICAL VERTICAL HOLE THROUGH GRADE BEAM LARGER THAN 4" DIA.

4 TYPICAL GRADE BEAM PENETRATION DETAILS
NO SCALE



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.

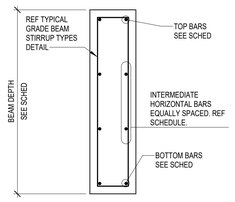
7 TYPICAL GRADE BEAM CONSTRUCTION JOINT
NO SCALE

ETV - CAPACITIES AND GRADE BEAMS OF 24" & 36" DEPTHS CAN BE FOUND HERE: S:\Technical Resources\A/E's Schedules\Grade Beam Schedule

GRADE BEAM SCHEDULE

MARK	SIZE		REINFORCING			TIES		REMARKS
	WIDTH	DEPTH	TOP	BOTTOM	MIDDLE	SIZE	SPACING*	
GB1	1'-6"	3'-0"	3#9	3#9	-	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB2	2'-0"	3'-0"	4#9	4#9	-	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB3	2'-8"	3'-0"	5#9	5#9	-	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB4	2'-10"	3'-0"	6#9	6#9	-	#4 D1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB5	3'-0"	3'-0"	6#9	6#9	-	#4 D1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB6	1'-2"	3'-0"	3#7	3#7	-	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-

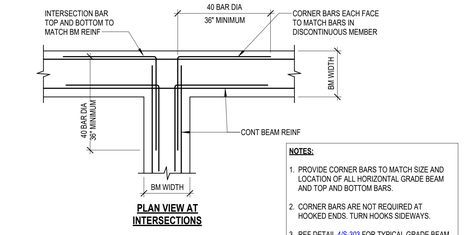
* - REF DETAIL 4/S-303 FOR TIE SPACING AT GRADE BEAM TO GRADE BEAM CONNECTION WHERE PIER/ FOOTING IS NOT PRESENT AT INTERSECTION. REF DETAIL 6/S-3034 FOR TIES SPACING BELOW COLUMN WHERE PIER/ FOOTING IS NOT PRESENT BELOW COLUMN.



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

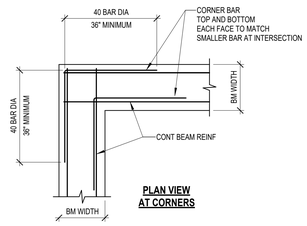
1 GRADE BEAM SCHEDULE
NO SCALE



PLAN VIEW AT INTERSECTIONS

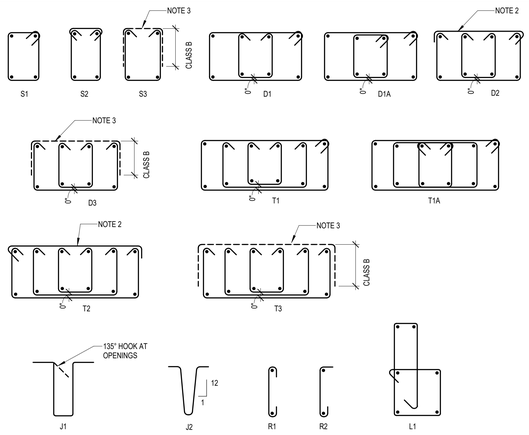
NOTES:

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-303 FOR TYPICAL GRADE BEAM TO GRADE BEAM CONNECTION WHERE PIER/ FOOTING IS NOT PRESENT AT INTERSECTION.



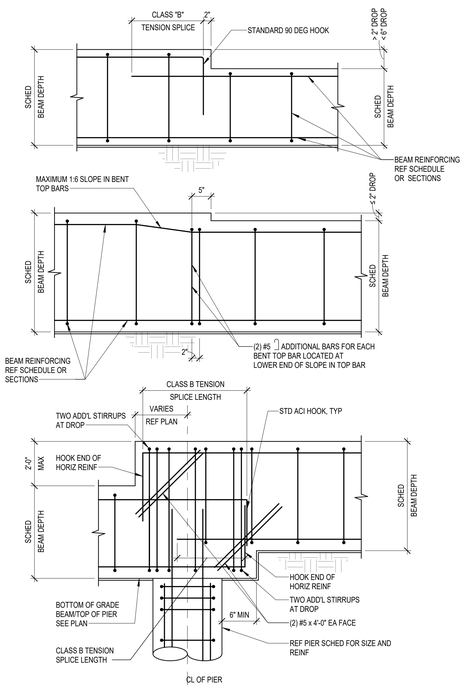
PLAN VIEW AT CORNERS

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".

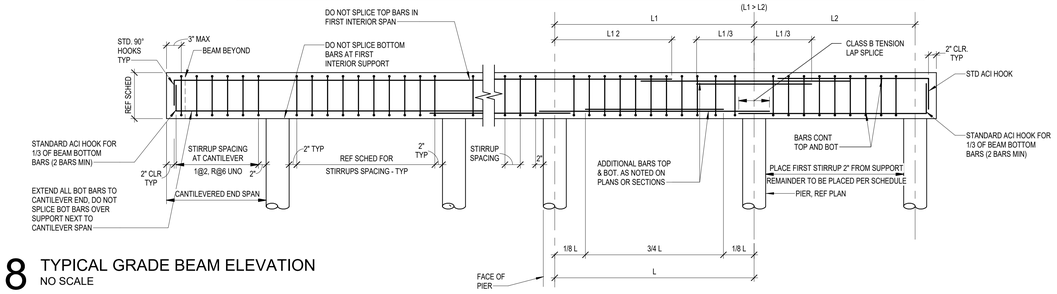
2 TYPICAL GRADE BEAM STIRRUP TYPES
3/4" = 1'-0"



6 TYPICAL GRADE BEAM STEPDOWN DETAIL
NO SCALE

NOTES:

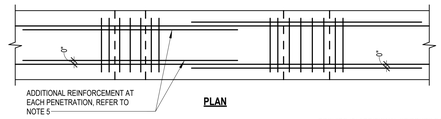
1. TOP CONT BARS MAY BE SPLICED AT MID-SPAN OF BEAM ONLY. EXCEPT AT CANTILEVER SPANS, SPANS ADJACENT TO CANTILEVER SPANS AND SPANS WITH LENGTH NOT GREATER THAN ONE HALF OF THE ADJACENT SPAN LENGTH.
2. ALL HOOKS SHOWN ARE STANDARD HOOKS (90° OR 180°).
3. SPLICES IN SCHEDULED BARS LESS THAN 60'-0" LENGTH 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-303 FOR TYPICAL GRADE BEAM TO GRADE BEAM CONNECTION WHERE PIER/ FOOTING IS NOT PRESENT AT INTERSECTION.
7. REF DETAIL 6/S-3034 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. CLEAR SPACING BETWEEN PENETRATIONS SHALL BE 24" MINIMUM UNLESS NOTED OTHERWISE BY THE STRUCTURAL ENGINEER.
2. 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.
3. PENETRATION WIDTH MUST NOT EXCEED PENETRATION HEIGHT, UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
4. 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.
5. 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.
6. 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.
7. SCHEDULED BEAM STIRRUPS NOT SHOWN FOR CLARITY.



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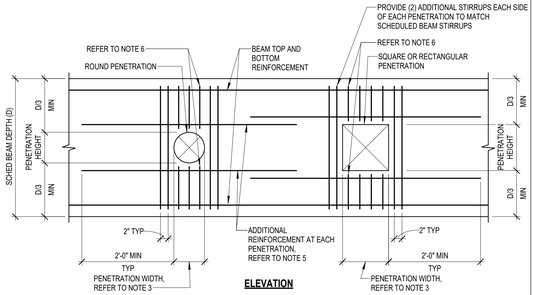
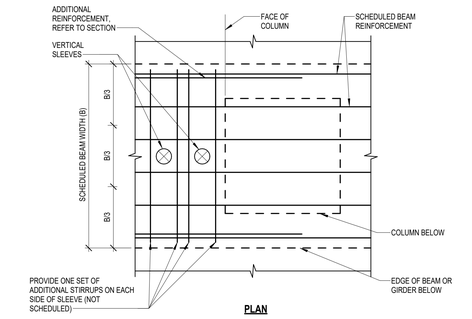


ELEVATION

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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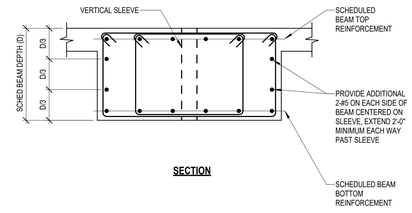

SECTION

9 TYPICAL VERTICAL PENETRATION IN CONCRETE BEAM
NO SCALE

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TX. REG. NO. F-23612

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PKG 3D - GPHS NEW BATTING CAGES & FACILITY

1608 11th St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
2025/10/17
Kubala Engineers
F-23612

CLIENT

DATE	PROJECT NUMBER
2025/10/17	240539

DRAWING HISTORY

No.	Description	Date
1	Addendum 02	2025/10/31

CHECKED BY: Checker
DRAWN BY: Author

GENERAL GRADE BEAM NOTES AND TYP DETAILS

S-302

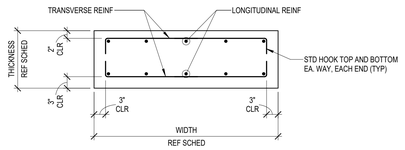
Plot Stamp:
10/31/2025 1:04:14 PM

GENERAL FOUNDATION NOTES AND TYP DETAILS
S-304
FOR BLUEBEAM LABELING/DOOR:

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..... 3000 PSF
   - B. MINIMUM FOOTING BEARING DEPTH..... 3.0 FT BELOW FINAL EXTERIOR 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
   - I. BEARING STRATUM..... LEAN CLAY, FAT CLAY AND FAT CLAY WITH SAND
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 SCHED.

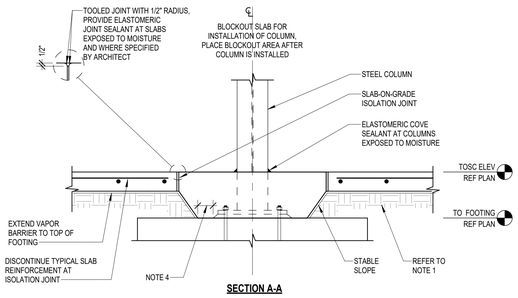
MARK	WIDTH (FT-IN)	LENGTH (FT-IN)	THICKNESS	LONGITUDINAL TOP REINF.	LONGITUDINAL BOT REINF.	TRANSVERSE TOP REINF.	TRANSVERSE BOT REINF.	REMARKS
F1	4'-0"	4'-0"	1'-6"	#5 @ 12" OC	#6 @ 12" OC	#5 @ 12" OC	#6 @ 12" OC	-
F2	6'-0"	6'-0"	1'-6"	#5 @ 12" OC	#7 @ 10" OC	#5 @ 12" OC	#7 @ 10" OC	
F3	8'-0"	8'-0"	1'-6"	#5 @ 12" OC	#7 @ 10" OC	#5 @ 12" OC	#7 @ 10" OC	

1

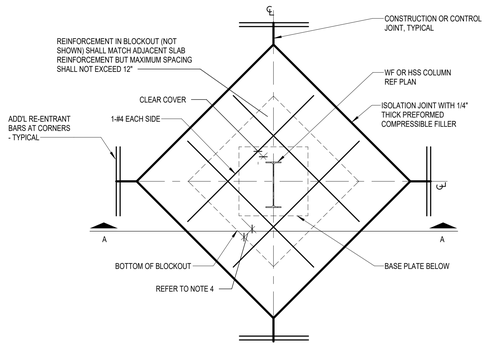
CONTINUOUS FOOTING SCHED.

TYPE	WIDTH (FT-IN)	THICKNESS	LONGITUDINAL TOP REINF.	LONGITUDINAL BOT REINF.	TRANSVERSE TOP REINF.	TRANSVERSE BOT REINF.	REMARKS
FX	4'-0"	1'-6"	X @ X" OC	X @ X" OC	X @ X" OC	X @ X" OC	-

1 TYPICAL FOOTING REINF DIAGRAM AND SCHEDULE
NO SCALE



SECTION A-A

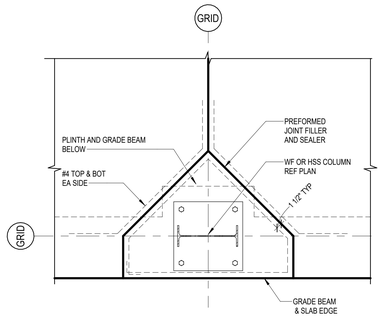


PLAN

NOTES:

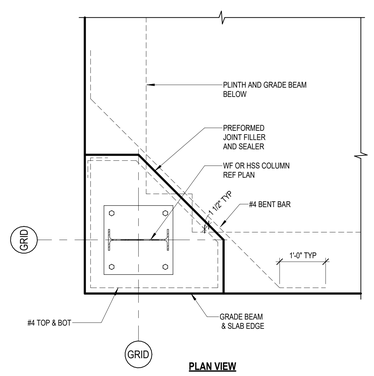
1. REFER TO "TYPICAL SLAB-ON-GRADE SUBGRADE PREPARATION" FOR SUBGRADE PREPARATION REQUIREMENTS INCLUDING LOCATION OF VAPOR BARRIER RELATIVE TO SLAB AND GRANULAR BASE AND WHETHER FINE-GRADE GRANULAR MATERIAL IS REQUIRED.
2. REFER TO "TYPICAL CONSTRUCTION AND CONTROL JOINTS - SLAB-ON-GRADE" FOR CONSTRUCTION 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



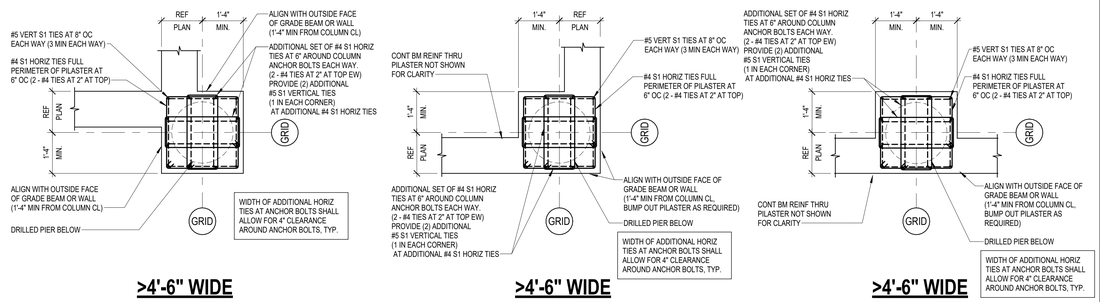
PLAN VIEW

4 TYPICAL SLAB-ON-GRADE PERIMETER BLOCKOUT DETAIL
NO SCALE



PLAN VIEW

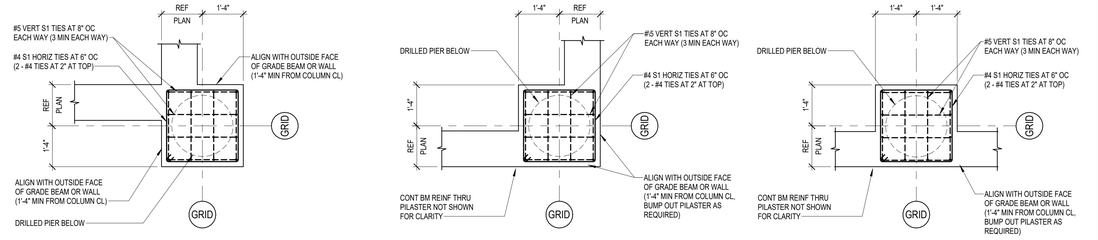
5 TYPICAL SLAB-ON-GRADE CORNER BLOCKOUT DETAIL
NO SCALE



>4'-6" WIDE PLAN VIEW

>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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ISSUE FOR PROPOSAL

Galena Park ISD — EXCELLENCE WALL TO WALL

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
2025/10/17
Kubala Engineers
F-23612

CLIENT

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2025/10/17	240539

DRAWING HISTORY

No.	Description	Date
1	Addendum 02	2025/10/31

CHECKED BY: Checker
DRAWN BY: Author

GENERAL FOUNDATION NOTES AND TYP DETAILS

S-304

Kubala ENGINEERS
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TX. REG. NO. F-23612

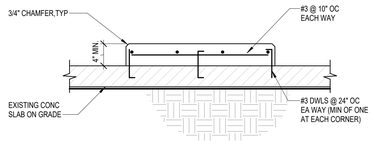
Plot Stamp:
10/31/2025 1:04:15 PM

GENERAL FOUNDATION NOTES AND TYP DETAILS
S-305
FOR BLUEBEAM LABEL:INGOOR:

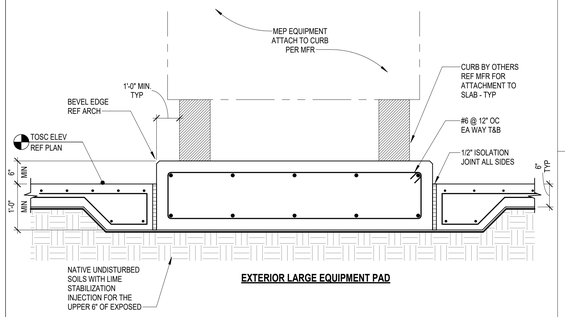
0"
1"

NOTES:

1. GENERAL CONTRACTOR TO COORDINATE WITH THE MECHANICAL DRAWINGS AND SPECIFICATIONS TO DETERMINE LOCATIONS OF HOUSEKEEPING PADS, AND TO PROVIDE WHERE REQUIRED, IF NONE ARE SHOWN ON THE STRUCTURAL DRAWINGS.
2. COORDINATE ALL PAD DIMENSIONS, AND VERIFY ADEQUACY WITH THE MECHANICAL ENGINEER AND THE EQUIPMENT REQUIREMENTS.
3. EQUIPMENT SKIDS/ATTACHMENT TO FOUNDATION SHALL BE DEFERRED SUBMITTAL SIGNED BY REGISTERED P.E. RESPONSIBLE FOR THEIR DESIGN.

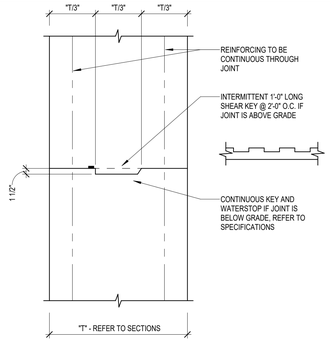


POST-INSTALLED PAD

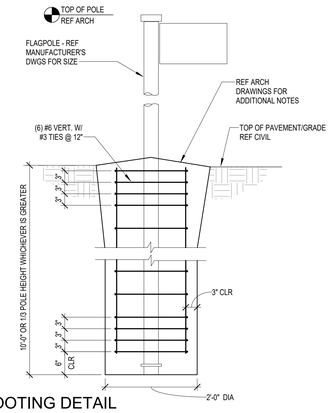


EXTERIOR LARGE EQUIPMENT PAD

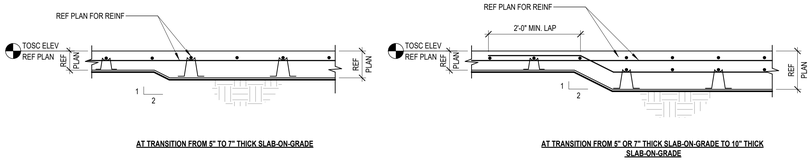
1 TYPICAL CONCRETE HOUSEKEEPING PAD DETAIL
NO SCALE



2 TYP HORIZONTAL CONSTRUCTION JOINT IN BEAMS AND WALLS OR VERTICAL CONSTRUCTION JOINT IN WALLS
NO SCALE



3 FLAGPOLE FOOTING DETAIL
NO SCALE

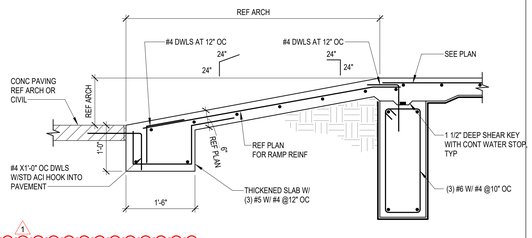


AT TRANSITION FROM 5" TO 7" THICK SLAB-ON-GRADE

AT TRANSITION FROM 5" OR 7" THICK SLAB-ON-GRADE TO 10" THICK SLAB-ON-GRADE

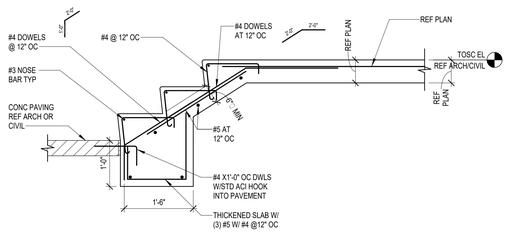
4 TYPICAL CHANGE IN SLAB THICKNESS
NO SCALE

NOTE:
THE GUARDRAIL / HANDRAIL NOT SHOWN FOR CLARITY. REF OTHER RAMP/STAIRS DETAILS FOR TYP. ATTACHMENT AND ADDED REINF. (TYP.)



1
5 CONCRETE RAMP
3/4" = 1'-0"

NOTE:
THE GUARDRAIL / HANDRAIL NOT SHOWN FOR CLARITY. REF OTHER RAMP/STAIRS DETAILS FOR TYP. ATTACHMENT AND ADDED REINF. (TYP.)



1
6 CONCRETE STAIR
3/4" = 1'-0"

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
2025/10/17
Kubala Engineers
F-23612

CLIENT

DATE	PROJECT NUMBER
2025/10/17	240539

DRAWING HISTORY

No.	Description	Date
1	Addendum 02	2025/10/31

CHECKED BY: Checker
DRAWN BY: Author

GENERAL FOUNDATION NOTES AND TYP DETAILS

S-305

Plot Stamp:
10/31/2025 1:04:15 PM

LEVEL 1 - FLOOR PLAN
A-101
FOR BLUEBEAM LABELING/OCR:

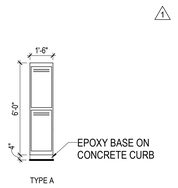
0"
1"

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 _____ U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE _____ 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.

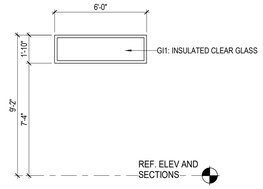
DOOR SCHEDULE

	DOOR			PANEL			FRAME						
NUMBER	WIDTH	HEIGHT	TYPE	MATL	FINISH	TYPE	MATL	FINISH	FIRE RATING	STC	HARDWARE SET	REMARKS
A101	3'-0"	6'-10"	F	HM	PT-1	002	HM	PT-1			RE: SPECS	
A102	3'-0"	6'-10"	NV-1	HM	PT-1	002	HM	PT-1			RE: SPECS	
A103.1	3'-0"	6'-10"	F	HM	PT-1	001	HM	PT-1			RE: SPECS	
A104	3'-0"	6'-10"	F	HM	PT-1	002	HM	PT-1			RE: SPECS	
A105	3'-0"	6'-10"	F	HM	PT-1	002	HM	PT-1			RE: SPECS	
A106	3'-0"	6'-10"	F	HM	PT-1	002	HM	PT-1			RE: SPECS	
A107.1	3'-0"	6'-10"	F	HM	PT-1	001	HM	PT-1			RE: SPECS	
A107.2	3'-0"	6'-10"	F	HM	PT-1	001	HM	PT-1			RE: SPECS	
A108	3'-0"	6'-10"	F	HM	PT-1	002	HM	PT-1			RE: SPECS	



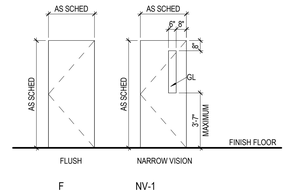
TYPE A

06 TYPICAL LOCKER ELEVATION TYPE A
1/4" = 1'-0"



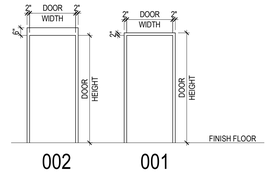
W1

05 WINDOW FRAME ELEVATION
1/4" = 1'-0"



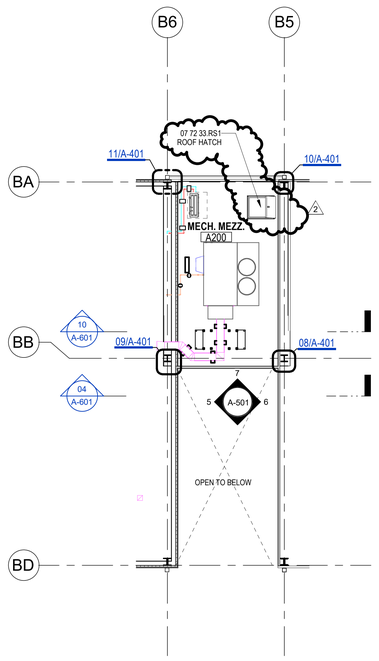
F NV-1

04 DOOR PANEL TYPES
1/4" = 1'-0"



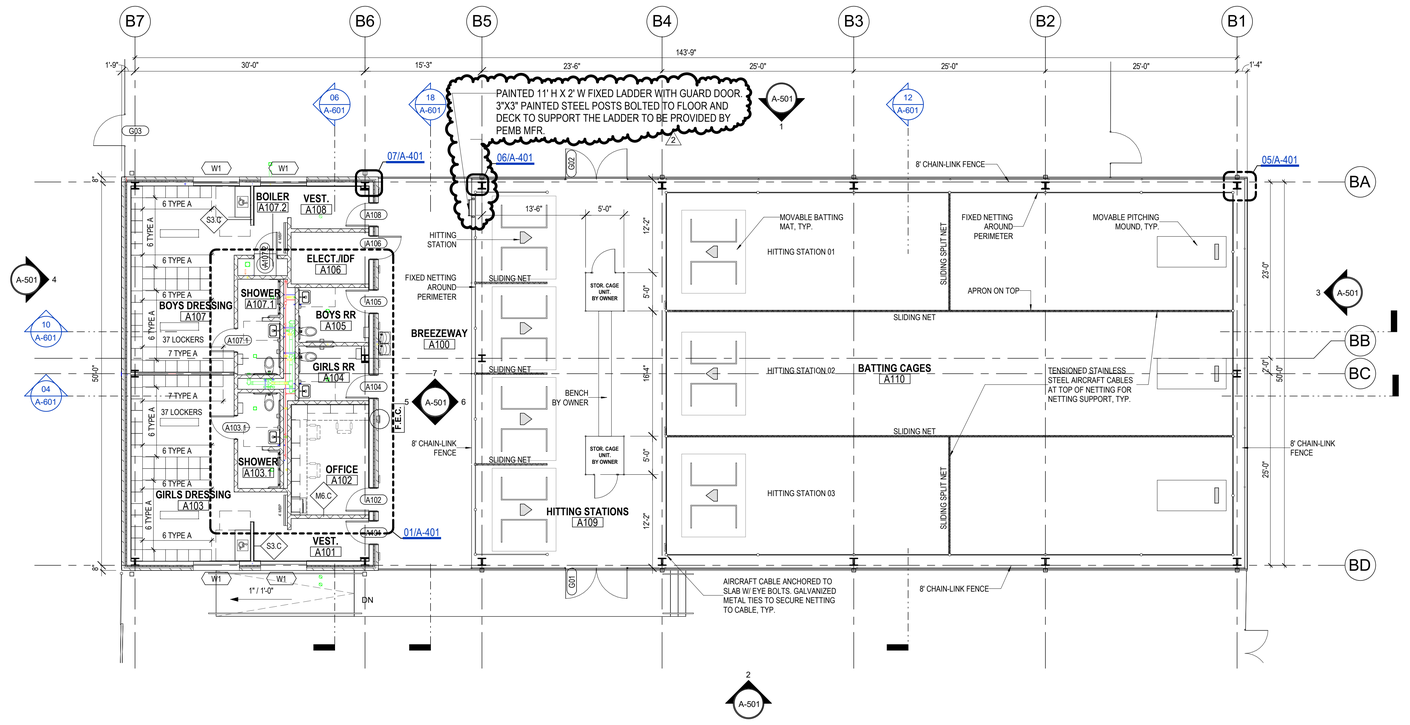
002 001

03 DOOR FRAME CONFIGURATION TYPES
1/4" = 1'-0"



02 MEZZANINE - FLOOR PLAN
1/8" = 1'-0"

DETAIL NOTES:
1. NETTING: #42 KNOTTED BLACK NYLON, TREATED FOR UV PROTECTION; 1-5/8-INCH MESH: 380 LB TENSILE STRENGTH.
2. ROPE AND TWINE: PRE-SHRUNK BLACK NYLON, TREATED FOR UV PROTECTION; 3/8-INCH DIAMETER ROPE WITH 2,500 LB TENSILE STRENGTH; #48 TWINE WITH 380 LB TENSILE STRENGTH.
3. HARDWARE: STAINLESS STEEL 3/8-INCH AIRCRAFT CABLE WITH 15,000 LB TENSILE STRENGTH. CABLE CLIPS, SHACKLES, EYEBOLTS, TURN-BUCKLES, ETC, SHALL BE GALVANIZED.
4. COMPLETE NETTING SYSTEM SHALL BE DESIGNED BY MANUFACTURER/INSTALLER TO MEET DIMENSIONS AND REQUIREMENTS NOTED AND SPECIFIED IN THE SPEC.



01 LEVEL 1 - FLOOR PLAN
1/8" = 1'-0"

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713-366-0608

PKG 3D - GPHS NEW BATTING CAGES & FACILITY

ISSUE FOR PROPOSAL

1608 11th St.
Galena Park, TX 77547

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT JAN LEPICOVSKY 25577 STATE OF TEXAS

10/17/2025

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
2025/10/17	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 1	2025/10/28
2	ADDENDUM 2	2025/10/31

CHECKED BY: Checker
DRAWN BY: Author

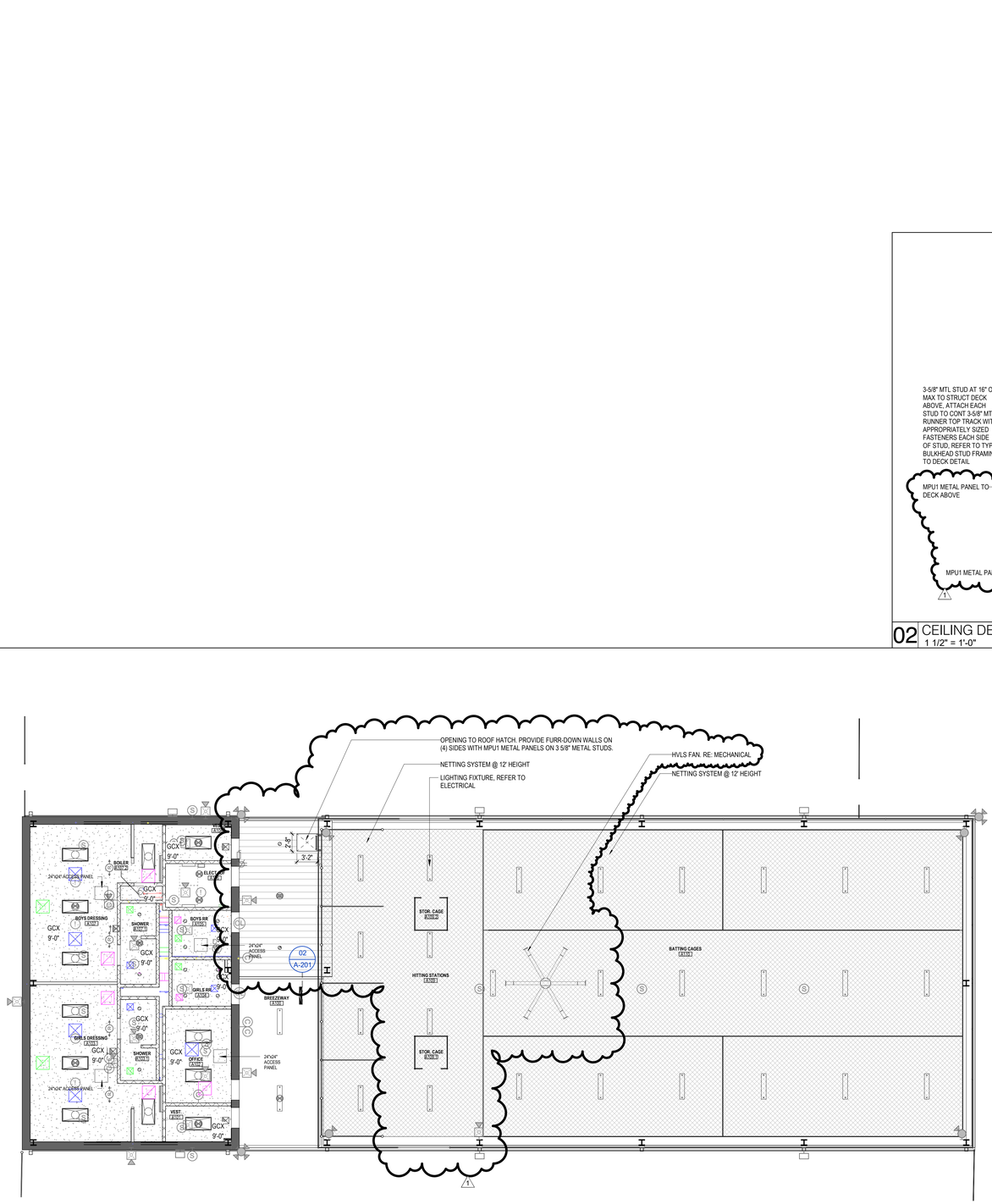
LEVEL 1 - FLOOR PLAN

A-101

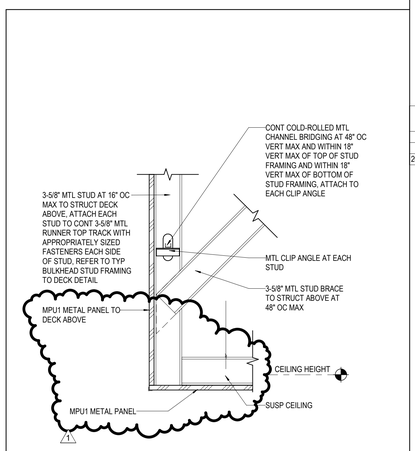
Plot Stamp:
10/31/2025 2:25:30 PM

0"
1"

LEVEL 1 - CEILING PLAN
A-201
FOR BLUEBEAM LABELING/OCR:



01 LEVEL 1 - CEILING PLAN
1/8" = 1'-0"



02 CEILING DETAIL
1 1/2" = 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 9'-0" UNLESS NOTED OTHERWISE.
15. ALL WALL-MOUNTED LIGHT FIXTURES ARE TO BE MOUNTED AT ___ A.F.F. TO THE TOP 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.
17.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
26 00 00.LGT	LIGHTING FIXTURE, REFER TO ELECTRICAL

CEILING MATERIALS LEGEND

09 21 16.GCX
GYPSUM CEILING BOARD,
5/8" TYPE X, NON-RATED

32 31 13.33
NETTING SYSTEM

07 42 13.MPU1
UNINSULATED METAL SOFFIT
BERRIDGE FW-12
DARK BRONZE

CEILING FIXTURE LEGEND

2' x 2' RECESSED LIGHT FIXTURE
RE: ELECTRICAL

2' x 2' 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

8" RECESSED CAN LIGHT
RE: ELECTRICAL

PROJECTOR

PBK
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HOUSTON, TX
713-366-0808

PKG 3D - GPHS NEW BATTING CAGES & FACILITY

1608 11th St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

REGISTERED ARCHITECT JAN LEPICOVSKY STATE OF TEXAS 25571

10/17/2025

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
2025/10/17	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 2	2025/10/31

CHECKED BY: Checker
DRAWN BY: Author

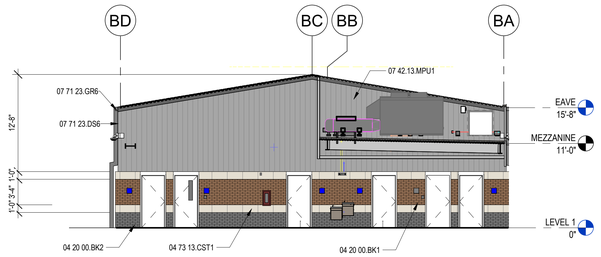
LEVEL 1 - CEILING PLAN

A-201

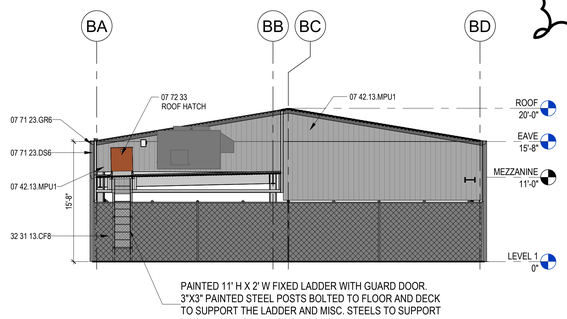
Plot Stamp:
10/31/2025 1:34:38 PM

EXTERIOR ELEVATIONS
A-501
FOR BLUEBEAM LABELING/OCR:

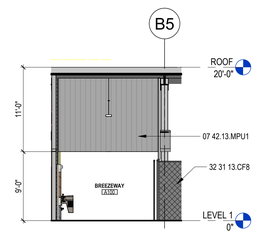
0"
1"



5 BREEZEWAY EAST ELEVATION
1/8" = 1'-0"



6 BREEZEWAY WEST ELEVATION
1/8" = 1'-0"



7 BREEZWAY SOUTH ELEVATION
1/8" = 1'-0"

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

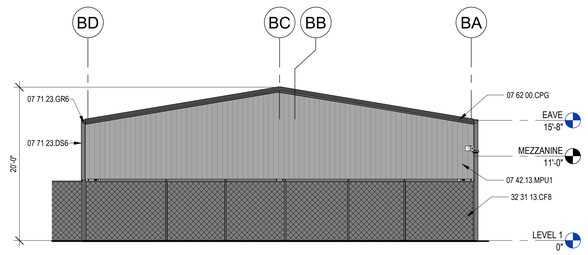
04 73 13.CST1
SMOOTH WHITE
LIMESTONE
12"x24", ARRISCRAFT

GENERAL ELEVATION NOTES

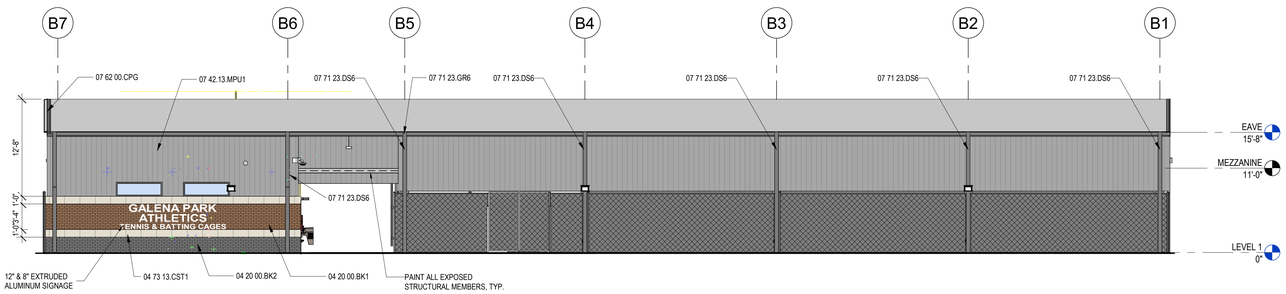
1. ALL BUILDING EXPANSION JOINT TO BE 1" UNLESS OTHERWISE NOTED.
2. CONTROL JOINT IN MASONRY VENEER TO BE 3/8" TYPICAL UNLESS OTHERWISE NOTED. EXTEND FULL HEIGHT OF WALL.
3. 1/2" EXPANSION JOINT FILLER ON BOTH ENDS OF ALL STEEL LINTEL ANGLES.
4. EXPOSED EXTERIOR STRUCTURAL STEEL TUBE MEMBERS SHALL BE 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 3'-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.
16. REFER TO STRUCTURAL SHEETS S400 AND S401 FOR ADDITIONAL COORDINATION INFORMATION FOR CMU LINTELS, REINFORCEMENT AND CONTROL JOINT PLACEMENT.
17. REFER TO 12/S501 FOR ADDITIONAL COORDINATION INFORMATION FOR LOOSE MASONRY LINTELS WITH METAL STUD BACKUP.
18. REFER TO DETAIL 7/S4-02 FOR SHELF ANGLE WITH CMU BACKUP.
19. REFER TO SHEET S400 UNDER THE MASONRY NOTES HEADING FOR ADDITIONAL COORDINATION INFORMATION FOR MASONRY CONTROL JOINT PLACEMENT.

KEYNOTE LEGEND

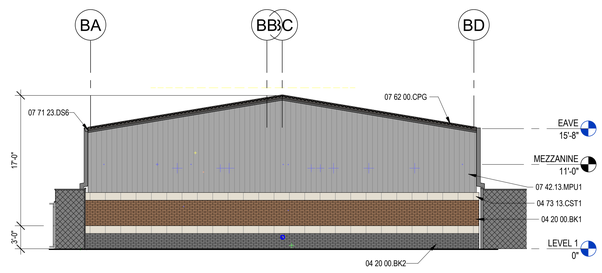
NUMBER	DESCRIPTION
04 20 00.BK1	BRICK TYPE 1 - GALENA PARK BLEND VELOUR
04 20 00.BK2	BRICK TYPE 2 - MIDNIGHT IRONSPOT VELOUR
04 73 13.CST1	MANUFACTURED STONE VENEER, TYPE 1 - [ARRISCRAFT SMOOTH]
07 42.13.MPU1	UNINSULATED METAL WALL PANEL, TYPE 1 - CONCEALED FASTENER
07 62 00.CPG	PRE-FINISHED METAL COPING
07 71 23.DS6	6"X 6" PRE-FINISHED METAL DOWNSPOUT W/ HEAVY GAUGE BOOT, RE: CIVIL
07 71 23.GR6	6" X 6" PRE-FINISHED METAL GUTTER
07 72 33	ROOF HATCHES (Envelope - BEAM)
32 31 13.CF8	8' CHAIN-LINK FENCE SYSTEM



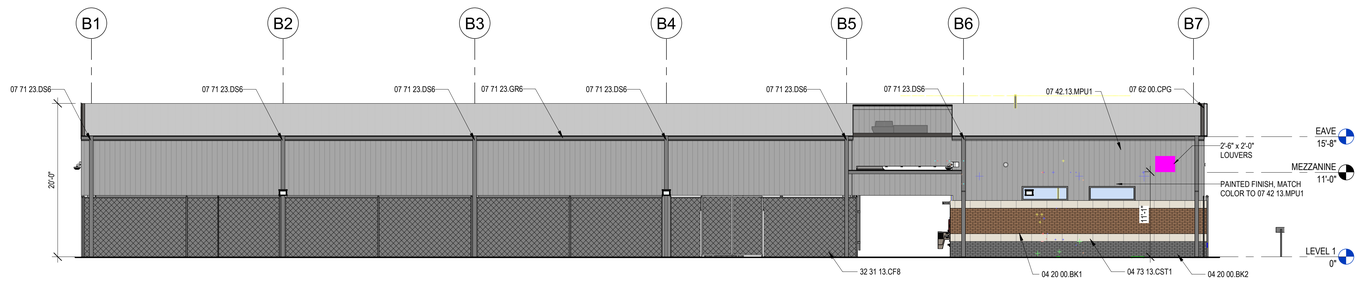
3 EAST ELEVATION
1/8" = 1'-0"



2 SOUTH ELEVATION
1/8" = 1'-0"



4 WEST ELEVATION
1/8" = 1'-0"



1 NORTH ELEVATION
1/8" = 1'-0"

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Galena Park ISD
EXCELLENCE IN ALL FORMS OF LEARNING

KEY PLAN
NORTH: PLAN TRUE

REGISTERED ARCHITECT
JAN LEPICOVSKY
25577
STATE OF TEXAS

10/17/2025

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
2025/10/17	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 2	2025/10/31

CHECKED BY: Checker
DRAWN BY: Author

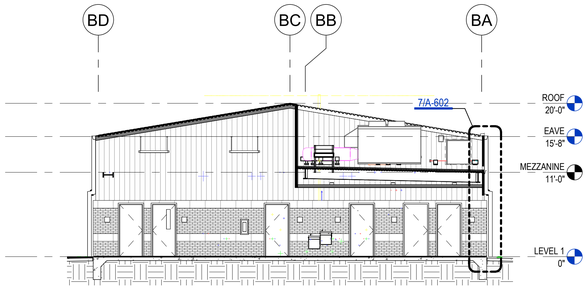
EXTERIOR ELEVATIONS

A-501

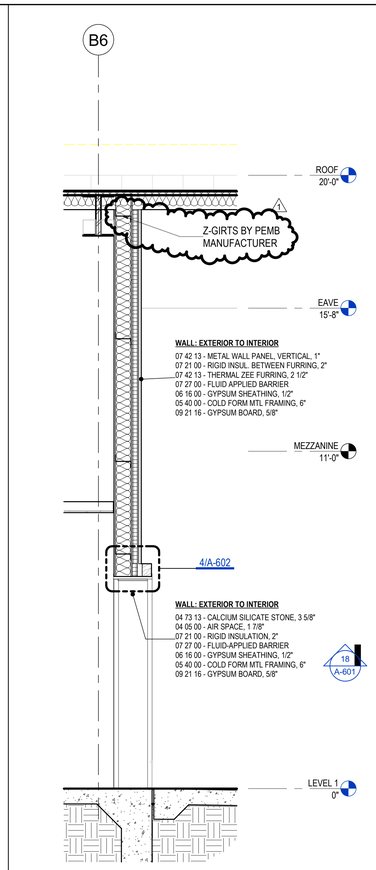
Plot Stamp:
10/31/2025 2:24:34 PM

BUILDING SECTIONS & WALL SECTIONS
A-601
FOR BLUEBEAM LABELING/OCR:

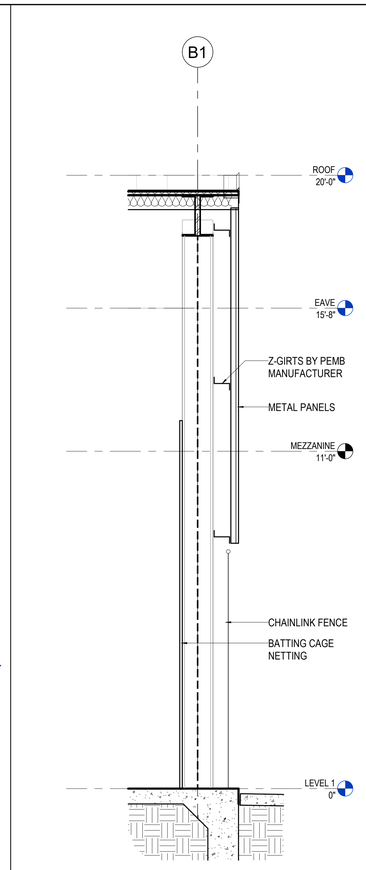
0"
1"



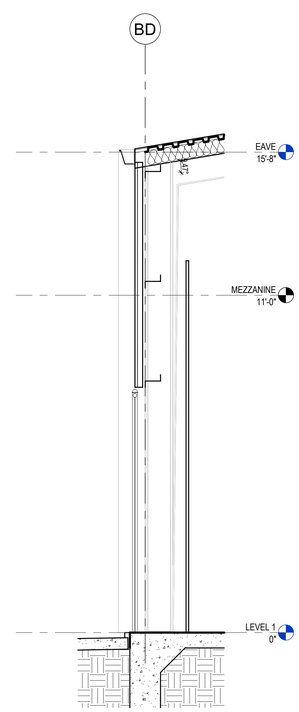
18 BUILDING SECTION
1/8" = 1'-0"



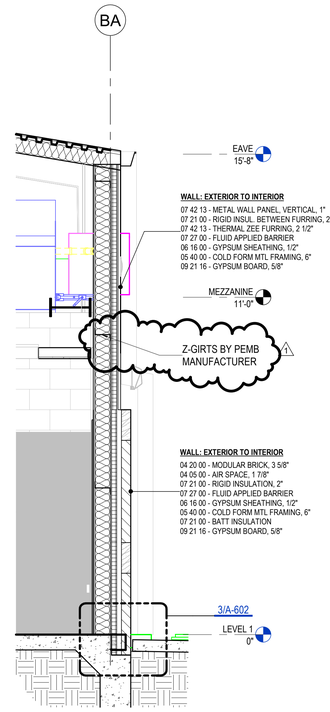
16 WALL SECTION
1/2" = 1'-0"



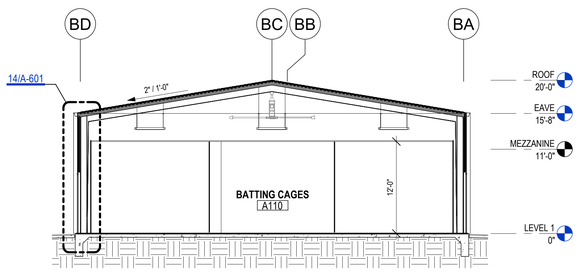
15 WALL SECTION
1/2" = 1'-0"



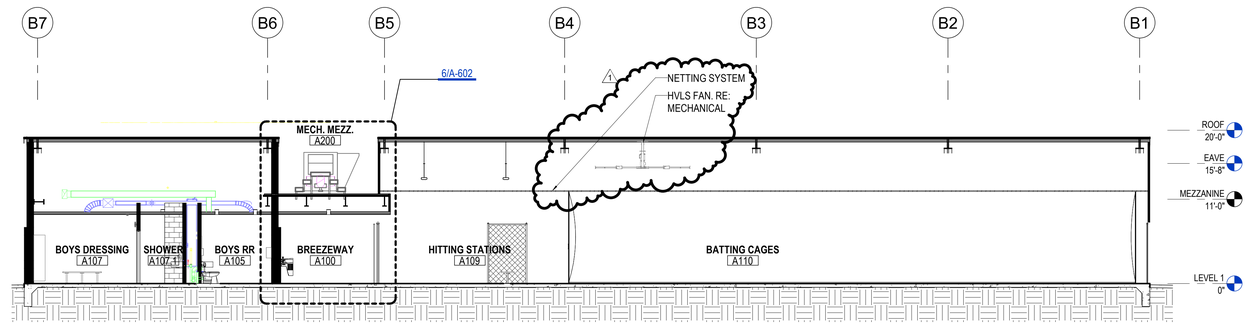
14 WALL SECTION
1/2" = 1'-0"



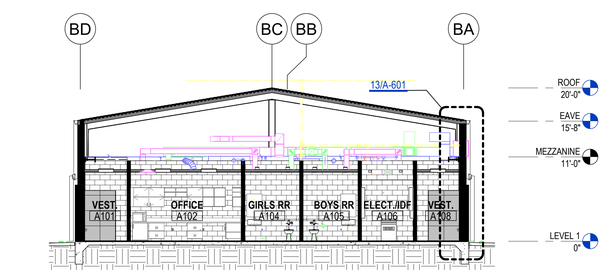
13 WALL SECTION
1/2" = 1'-0"



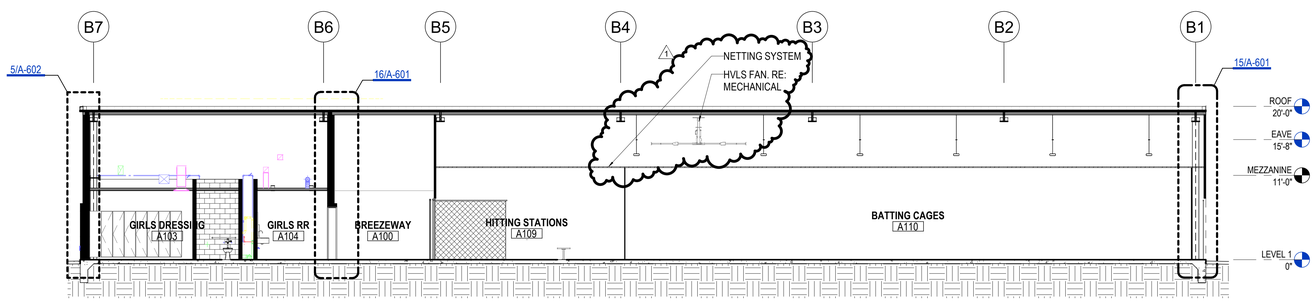
12 BUILDING SECTION
1/8" = 1'-0"



10 BUILDING SECTION
1/8" = 1'-0"



06 BUILDING SECTION
1/8" = 1'-0"



04 BUILDING SECTION
1/8" = 1'-0"

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PKG 3D - GPHS NEW BATTING CAGES & FACILITY

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ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

JAN LEPICOVSKY
REGISTERED ARCHITECT
25573
STATE OF TEXAS

10/17/2025

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
2025/10/17	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 2	2025/10/31

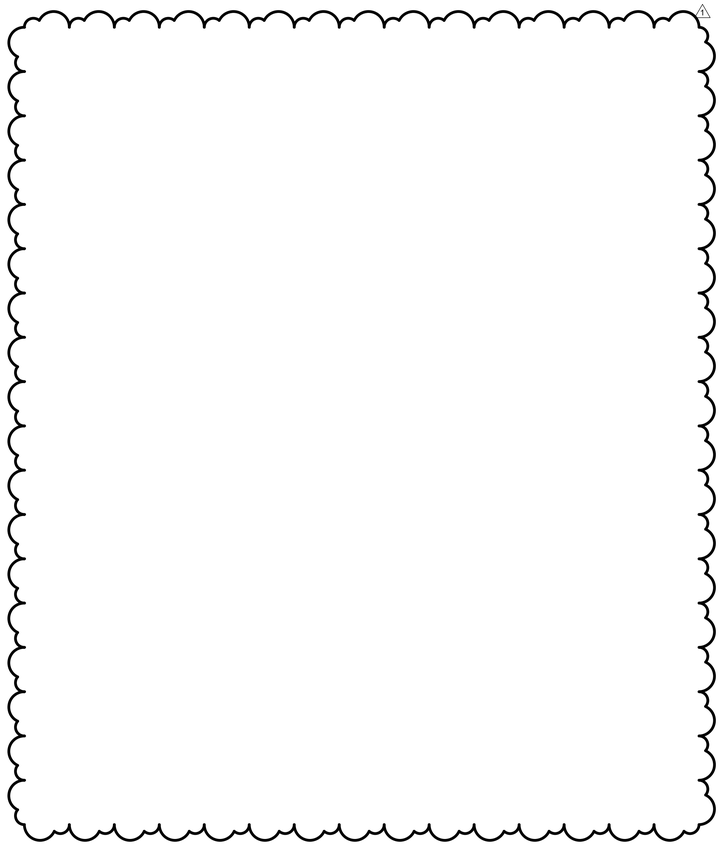
CHECKED BY: Checker
DRAWN BY: Author

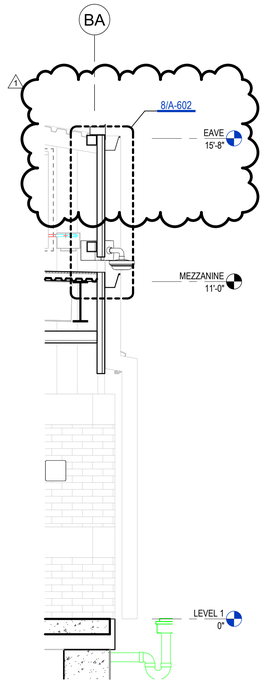
BUILDING SECTIONS & WALL SECTIONS

A-601

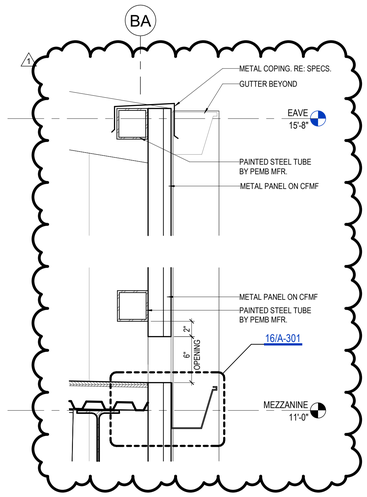
WALL SECTIONS & PARTITION TYPES
A-602
FOR BLUEBEAM LABELING/OCR:

0"
1"





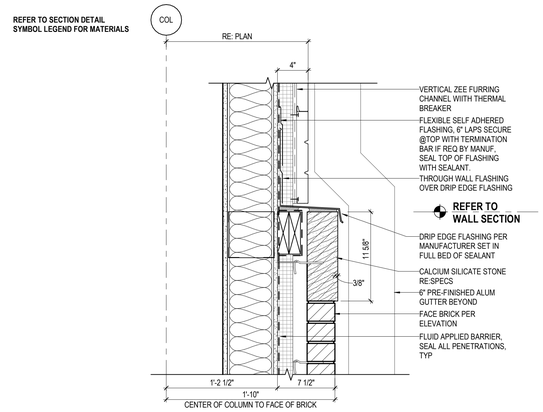
7 Detail 0
1/2" = 1'-0"



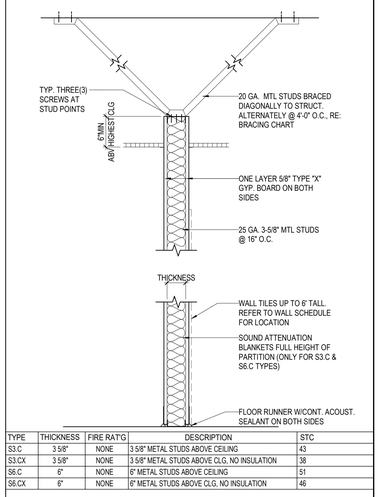
8 Detail 1
1 1/2" = 1'-0"

PARTITION SYMBOL LEGEND

- CMU BLOCK - REFER TO TABLE FOR THICKNESS
- CONT. BOND BEAM BLOCK - REFER TO TABLE FOR THICKNESS REINFORCE W/ CONT. REBAR @ 9'-0" A.F.F.:
  - (2) #4 @ 6" CMU
  - (2) #5 @ 8" CMU
  UNO BY STRUCTURE
- CONT. BOND BEAM REINFORCED W/ (2) #4 CONT. UNO BY STRUCTURE - REFER TO TABLE FOR THICKNESS
- SOUND ATTENUATION BLANKETS
- SCHEDULED CEILING

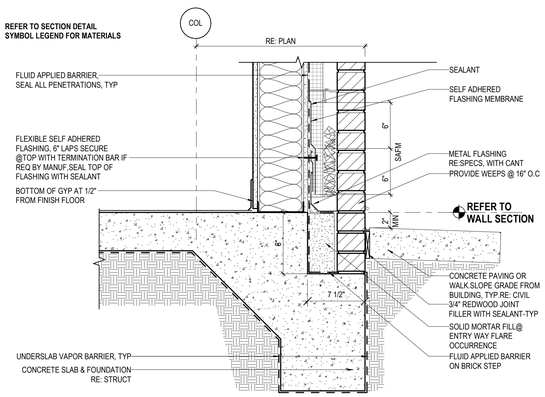


4 BRICK TRANSITION TO METAL PANEL
1 1/2" = 1'-0"

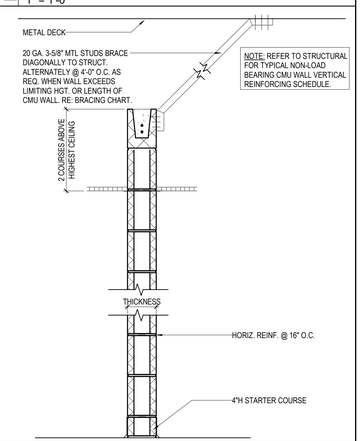


TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC
S3.C	3 5/8"	NONE	3 5/8" METAL STUDS ABOVE CEILING	43
S3.CX	3 5/8"	NONE	3 5/8" METAL STUDS ABOVE CLG, NO INSULATION	38
S6.C	6"	NONE	6" METAL STUDS ABOVE CEILING	51
S6.CX	6"	NONE	6" METAL STUDS ABOVE CLG, NO INSULATION	46

2 PARTITION TYPE - S-.C [ABOVE CLG]
1" = 1'-0"

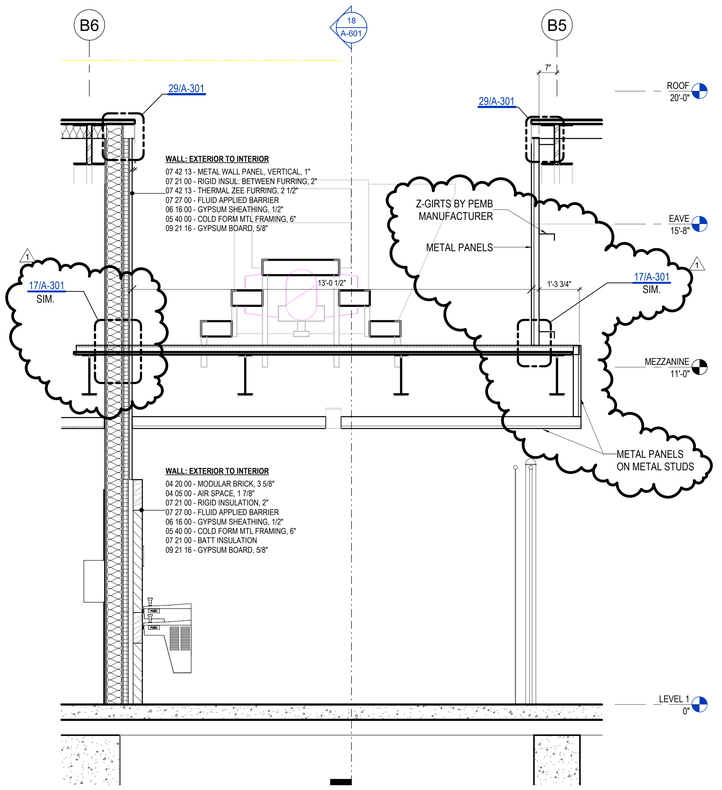


3 BRICK LEDGE AT GRADE CFMF
1 1/2" = 1'-0"

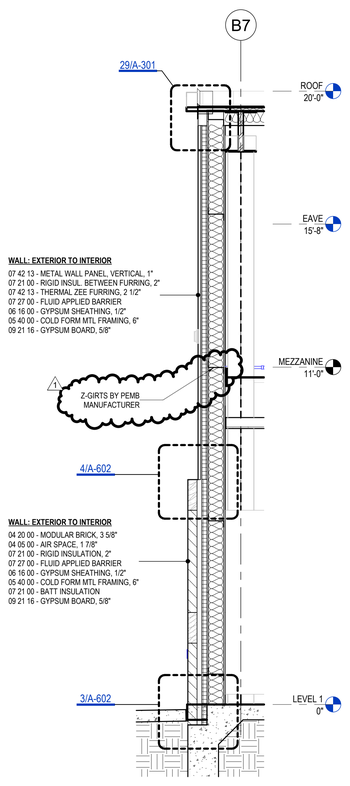


TYPE	THICKNESS	FIRE RAT'G	DESCRIPTION	STC
M8.C	8"	NONE	8" CMU ABOVE CEILING	44
M10.C	10"	NONE	10" CMU ABOVE CEILING	46
M12.C	12"	NONE	12" CMU ABOVE CEILING	48

1 PARTITION TYPE M-.C [ABOVE CEILING]
1" = 1'-0"



6 WALL SECTION
1/2" = 1'-0"



5 WALL SECTION
1/2" = 1'-0"

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PKG 3D - GPHS NEW BATTING CAGES & FACILITY

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Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

10/17/2025

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
2025/10/17	240539

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 2	2025/10/31

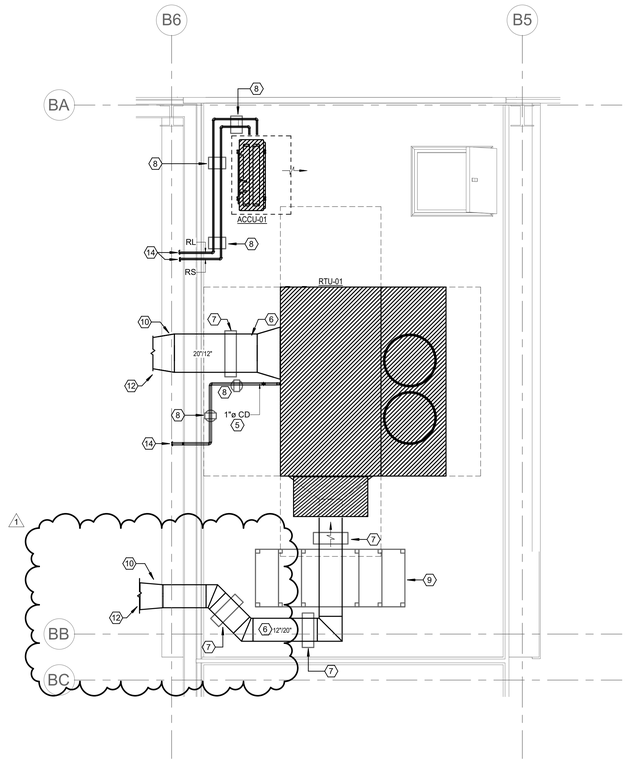
CHECKED BY: Checker
DRAWN BY: Author

WALL SECTIONS & PARTITION TYPES

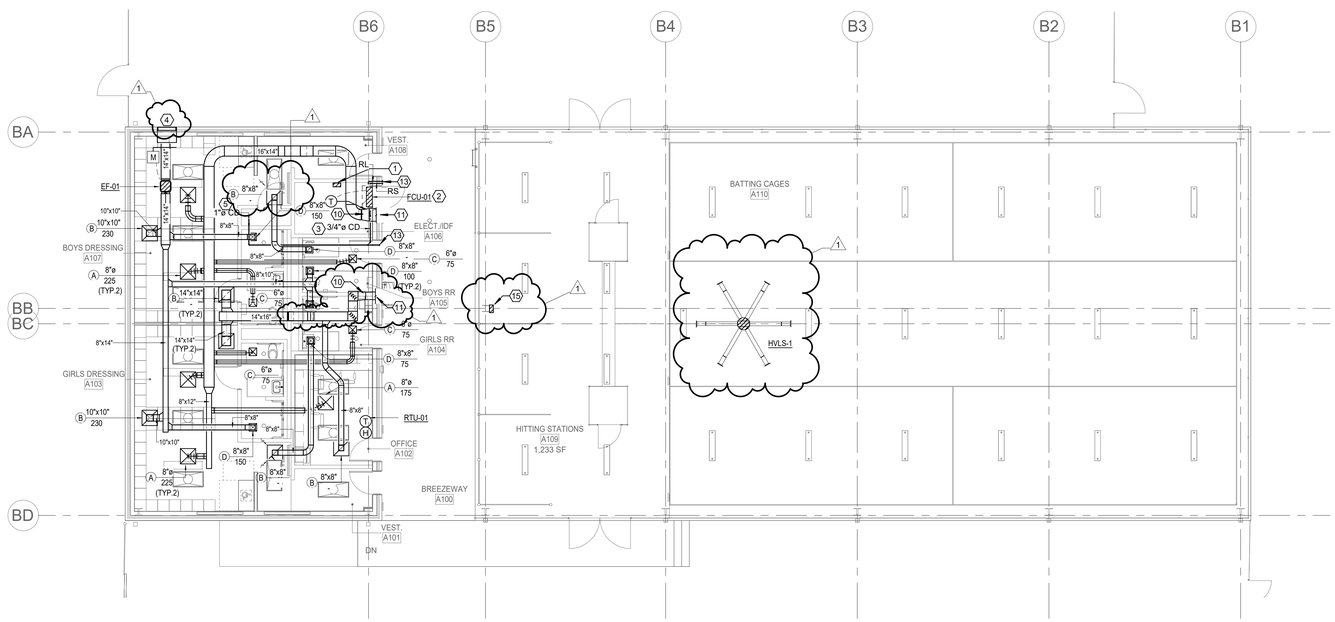
A-602

1ST FLOOR MECHANICAL PLAN
M-101
FOR BLUEBEAM LABELING/OCR:

0"
1"



2 MECHANICAL ROOF PLAN
3/8" = 1'-0"



1 1ST FLOOR MECHANICAL PLAN - BATTING CAGE & NETTING PLANS
1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

1. ALL RETURN AND EXHAUST DUCTWORK SHALL ALSO HAVE INSULATION. REFER TO DUCT INSULATION SPECIFICATIONS 23 07 13

MECHANICAL KEYED NOTES:

1. PROPOSED LOCATION OF DDC PANEL. COORDINATE EXACT LOCATION WITH EMCS CONTRACTOR.
2. PROVIDE WALL MOUNTED FAN COIL UNIT. ROUTE REFRIGERANT TO ASSOCIATED OUTDOOR UNIT. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. EXPOSED PIPING SHALL BE WRAPPED IN ALUMINUM JACKETING.
3. TIE 3/4"Ø CONDENSATE DRAIN LINE TO 1" RTU CONDENSATE DRAIN LINE LEADING TO WATER HEATER CLOSET.
4. PROVIDE AMCA 550 AND 540 LOUVER WITH A MINIMUM FREE AREA OF 1.9 FT². CONFIRM FINAL SIZE AND FINISH WITH ARCHITECT.
5. ROUTE 1" RTU CONDENSATE DRAIN LINE TO FLOOR DRAIN IN WATER HEATER CLOSET. RE: PLUMBING FOR EXACT DRAIN LOCATION.
6. ALL OUTDOOR DUCTWORK SHALL BE DOUBLE WALL FLAT OVAL DUCT; REFER TO METAL DUCT SPECIFICATIONS 23 31 13. CONFIRM COLOR WITH ARCHITECT.
7. PROVIDE PORTABLE DUCT SUPPORT.
8. PROVIDE PORTABLE PIPE SUPPORTS IN MAXIMUM 4'-0" INTERVALS.
9. PROVIDE CROSSOVER BRIDGE OVER DUCTWORK. REFER TO SPECIFICATION SECTION 23 05 29 FOR ADDITIONAL INFORMATION.
10. TRANSITION TO SINGLE WALL DUCT WITH DUCT WRAP INSIDE THE BUILDING.
11. FOR CONTINUATION OF DUCTWORK, SEE 2:M-101.
12. FOR CONTINUATION OF DUCTWORK, SEE 1:M-101.
13. FOR CONTINUATION OF PIPING, SEE 2:M-101.
14. FOR CONTINUATION OF PIPING, SEE 1:M-101.
15. WALL MOUNTED HVLS FAN CONTROLLER. COORDINATE LOCATION WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.

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LEAF ENGINEERS

PKG 3D - GPHS NEW BATTING CAGES & FACILITY

1608 11th St.
Galena Park, TX 77547

ISSUE FOR PROPOSAL

Galena Park ISD

KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
10/31/2025

LEAF ENGINEERS
F-16672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
2025/10/17	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 02	10/31/2025

CHECKED BY: MP
DRAWN BY: CT

1ST FLOOR MECHANICAL PLAN

M-101

Plot Stamp:
10/31/2025 11:57:38 AM

MECHANICAL SCHEDULES
M-501
FOR BLUEBEAM LABELING/OCR:

PACKAGED, OUTDOOR, CENTRAL-STATION AIR-HANDLING UNITS

DESIGNATION	SERVICE	TYPE	MANUFACTURER	MODEL	DIMENSIONS (L" x W" x H")	WEIGHT (LBS)	SEE NOTE	MIN. EER AT AHRI CONDITIONS		BLOWER DATA							COOLING COIL DATA						HOT GAS RE-HEAT COIL DATA				ELECTRICAL DATA		
								EER	IEER	TOTAL CFM	OUTSIDE AIR CFM	MIN. OUTSIDE AIR CFM	EST. EXT. SP. (IN. WG.)	MOTOR QUANTITY / MAX. MOTOR HP (EACH)	MAX. BRAKE H.P.	TYPE	CFM OVER COIL	MAX. FACE VELOCITY (FPM)	GRAND SENSIBLE BTUH	GRAND TOTAL BTUH	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	TOTAL BTUH	LAT (°F DB)	ELECTRIC HEAT (kW)	MIN. STAGES OF HEAT / TURNDOWN	EAT (°F DB)	LAT (°F DB)	MCA	MOCP	VOLTAGE
RTU-01	BATTING CAGE LOCKERS	SINGLE ZONE CV	VALENT	VX-112	121" X 87" X 66"	2,300	1-18	**11.8**	**19.4**	1,375	1,000	1,000	1.2"	1 / 1 HP	0.53	DIRECT DRIVE - PF	1,375	500	56,565	108,900	91.1°	75.9°	53°F	59,700	65°F	25	MODULATING (SCR)	33.6°F	91.0°	41.5	45	480 / 3 / 60

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS.
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. 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).
5. PROVIDE LOW LEAK, MOTORIZED, ALUMINUM, FULLY MODULATING DAMPER ASSEMBLY.
6. PROVIDE OA HOOD WITH METAL MESH OA FILTERS AND PERMENANT METAL FILTER FRAMES WITH MAXIMUM 2" THICK MERV 13 FILTER MEDIA UPSTREAM OF COOLING COIL.
7. PROVIDE FACTORY MOUNTED AND WIRED VARIABLE FREQUENCY DRIVES FOR SUPPLY FANS AND CONDENSER FANS. FIELD MOUNTED DRIVES WILL NOT BE ACCEPTABLE.
8. AMBIENT AIR TEMPERATURE TO BE 105°F.
9. EQUIPMENT SHALL COMPLY WITH LATEST EDITION OF 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) AND SHALL MEET OR EXCEED THE SCHEDULED EFFICIENCY VALUES.
10. PROVIDE SINGLE POINT POWER CONNECTION WITH FACTORY MOUNTED AND WIRED DISCONNECT AND UNPOWERED 120V/15A GFCI CONVENIENCE OUTLET. CONVENIENCE OUTLET CONNECTION SHALL BE A SEPARATE ELECTRICAL FEED AND NOT FROM THE MAIN.
11. PROVIDE LOW AMBIENT CONTROL DOWN TO 35°F.
12. REFRIGERANT SHALL BE R-454b
13. PROVIDE HAIL GUARDS.
14. HOT GAS REHEAT AND CONDENSER COILS SHALL BE MICROCHANNEL.
15. EVAPORATOR, HOT GAS REHEAT AND CONDENSER COILS SHALL BE POLYMER EPOXY E-COATED; REFER TO SPECIFICATION.
16. PROVIDE MODULATING HOT GAS RE-HEAT COIL FOR ACTIVE HUMIDITY CONTROL.
17. PROVIDE FACTORY MOUNTED REFRIGERANT LEAK DETECTION SYSTEM.
18. RTU MANUFACTURER SHALL PROVIDE FACTORY INSTALLED DEVICES AND SENSORS WIRED TO A TERMINAL STRIP WITH ISOLATION RELAYS TO BE CONTROLLED BY THE DIRECT DIGITAL CONTROL (DDC) SYSTEM. UNITS WITH FACTORY PROVIDED DDC CONTROLLER WITH BACNET INTEGRATION SHALL NOT BE PERMITTED.

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-01	BOYS DRESSING PLENUM	LOCKER ROOMS/RESTROOMS	GREENHECK	SQ	1-3	100	CENTRIFUGAL	DIRECT	960	0.50	1/4	1,800	115 / 60 / 1

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
2. REFERENCE SPECIFICATIONS FOR SEQUENCE OF OPERATIONS.
3. FAN SHALL BE PROVIDED WITH GREENHECK 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.

DIFFUSERS, REGISTERS & GRILLES SCHEDULE

DESIGNATION	MODEL NUMBER	NOISE CRITERIA (NC)	DESCRIPTION
A	TITUS TDCA-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.
B	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.
C	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.
D	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.

1. ALL DIFFUSER DESIGNATIONS MAY NOT BE USED ON PROJECT.
2. PROVIDE ROTO-TWIST CABLE OPERATED DAMPERS AT IN GYP BOARD CEILINGS.

DUCTLESS MINI-SPLIT SYSTEM AIR-CONDITIONERS SCHEDULE

EVAPORATOR SECTION	
INDOOR EVAPORATOR DESIGNATION	**FCU-01**
SERVICE	ELECT./DF
MANUFACTURER	MITSUBISHI
MODEL NUMBER	PKA
TYPE	WALL MOUNTED
WEIGHT (LBS.)	26
NOTES	1-7 1
FAN DATA	
SUPPLY CFM (HIGH / MEDIUM / LOW) SPEED	530 / 477 / 371
COOLING / HEATING COIL	DX
NOMINAL TONNAGE	**1.5 TONS**
ENTERING AIR EVAP (DB/WB) °F - COOLING MODE	80°F / 67°F
ENTERING AIR EVAP (DB/WB) °F - HEATING MODE	1
TOTAL BTUH COOLING	18,000
TOTAL BTUH HEATING	-
AIR-COOLED CONDENSER	
DESIGNATION	**ACCU-01**
SERVES	FCU-01
LOCATION	ROOF 1
MANUFACTURER	MITSUBISHI
MODEL NUMBER	PUY
EER2	13.0
SEER2	23.0
HSPF2	10.0
VOLTS/PH/HZ	**208 / 1 / 60**
MCA	16
MOCP	30
REFRIGERANT	R-454B
AMBIENT TEMPERATURE °F	105°F
WEIGHT (LBS.)	200

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. PROVIDE REMOTE WALL MOUNTED PROGRAMMABLE THERMOSTAT WITH BACnet INTERFACE.
4. PROVIDE INVERTER DRIVEN COMPRESSOR.
5. INDOOR UNIT IS POWERED BY THE OUTDOOR UNIT. INTERCONNECTING POWER WIRING FROM OUTDOOR TO INDOOR UNIT IS BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL DRAWINGS.
6. PROVIDE MATCHING CONDENSING UNIT FROM SAME MANUFACTURER.
7. 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.

1

HIGH VOLUME, LOW SPEED FAN SCHEDULE

DESIGNATION	LOCATION	SERVICE	MANUFACTURER	MODEL NUMBER	NOTES	FAN DATA							
						DESCRIPTION	AIRFOILS	DIAMETER	WEIGHT	RPM	CONTROL	VOLT / PH	CIRCUIT SIZE (AMPS)
HVLS-01	BATTING CAGES	VENTILATION	BAF	POWERFOIL 5	1-11	12' POWERFOIL 5	5	12'-0"	200 LBS.	135	BAFCON	460 / 3 / 60	10 A

1. REFERENCE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.
2. VERIFY EXTENSION TUBE LENGTH AND MOUNTING BRACKET WITH MANUFACTURER PRIOR TO ORDERING.
3. PROVIDE WITH POWERFOIL AIRFOILS AND WINGLETS.
4. PROVIDE FACTORY WALL MOUNTED DIGITAL CONTROL PAD FULLY INTERGRATED WITH THE ONBOARD CONTROL, IN CLEAR LOCKABLE ENCLOSURE WITH 2 SETS OF KEYS FOR EACH FAN.
5. PROVIDE WITH DIRECT DRIVE FAN.
6. PROVIDE WITH FACTORY INSTALLATION AND CORRESPONDING 15 YEAR, NON-PRORATED PARTS WARRANTY ON MOTOR, GEARBOX, CONTROL, WALL KEYPAD AND 1 YEAR FULL LABOR.
7. COMPANY LOGO NOT TO BE PLACED ON FAN.
8. PROVIDE FAN WITH HUB, MOUNT, SAFETY WIRE ROPE AND FAN CONTROLLER.
9. PROVIDE UNIT WITH HARSH ENVIRONMENT PACKAGE. FAN IS LOCATED OUTDOOR.
10. FAN SHALL BE ATLEAST 2'-0" AWAY, IN ALL DIRECTIONS, FROM POSSIBLE OBSTRUCTIONS. INTALL PER MANUFACTURER'S RECOMMENDED FAN CLEARANCE GUIDELINES.
11. INSTALL FAN WITH GUY WIRES PER THE MANUFACTURER'S INSTALLATION REQUIREMENTS.

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KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
MITAL J. PATEL
111622
LICENSED
PROFESSIONAL ENGINEER
10/31/2025

LEAF ENGINEERS
F-18672

CLIENT	
Galena Park ISD	
DATE	PROJECT NUMBER
2025/10/17	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 02	10/31/2025

CHECKED BY: MP
DRAWN BY: CT

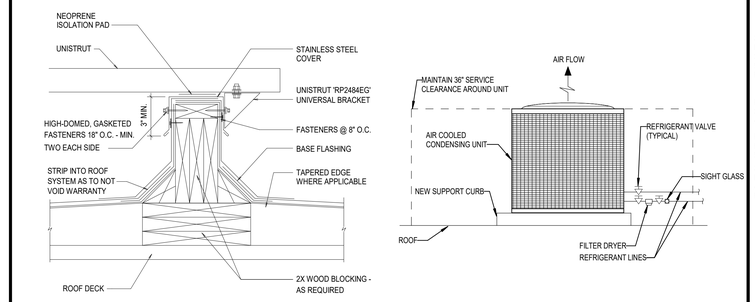
MECHANICAL SCHEDULES

M-501

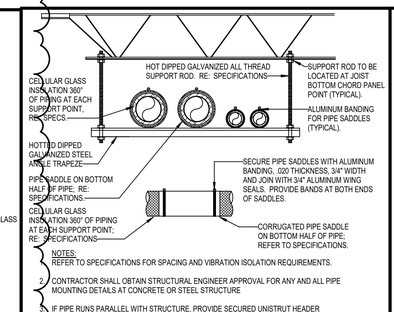
Plot Stamp:
10/31/2025 11:57:38 AM

MECHANICAL DETAILS
M-601
FOR BLUEBEAM LABELING/DOCR:

0"
1"

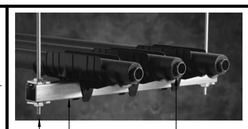


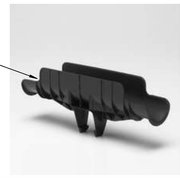
ROOF MOUNTED AIR COOLED CONDENSING UNIT PIPING AND SUPPORT DETAIL — 18
NOT TO SCALE



NOTES:
1. REFER TO SPECIFICATIONS FOR SPACING AND VIBRATION ISOLATION REQUIREMENTS.
2. CONTRACTOR SHALL OBTAIN STRUCTURAL ENGINEER APPROVAL FOR ANY AND ALL PIPE MOUNTING DETAILS AT CONCRETE OR STEEL STRUCTURE
3. IF PIPE RUNS PARALLEL WITH STRUCTURE, PROVIDE SECURED UNISTRUT HEADER LAID ACROSS MULTIPLE JOISTS MOUNTED TO JOIST BOTTOM CHORD.
4. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL JOIST REINFORCEMENTS REQUIRED IF PIPE HANGER LOADS DO NOT OCCUR AT JOIST BOTTOM CHORD PANEL POINTS.
5. CONTRACTOR SHALL FIELD GALVANIZE ALL SURFACES THAT ARE EXPOSED DUE TO FIELD CUTS/MODIFICATIONS.

PIPE HANGER TRAPEZE DETAIL — 17
NOT TO SCALE



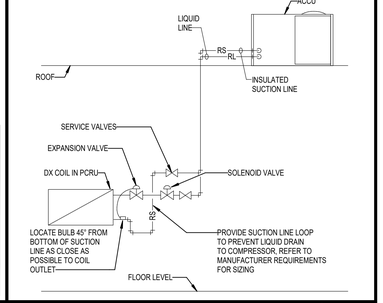


HOT-DIPPED GALVANIZED CHANNEL
INSULATED REFRIGERANT PIPING
HOT-DIPPED GALVANIZED ALL-THREAD RODS, LOCK NUTS, AND WASHERS
SNAP ON 12" LONG BLACK INSULATION SHIELD

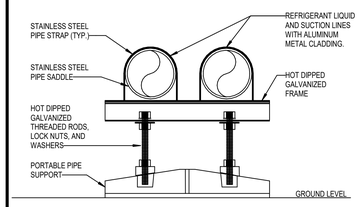
NOTES:
TYPICAL FOR ALL REFRIGERANT PIPING PROVIDE PIPE SUPPORTS MANUFACTURED BY "COOPER B-LINE", SNAP 'N SHIELD SERIES. COORDINATE COPPER TUBING SIZE AND INSULATION THICKNESS WITH COOPER B-LINE PRIOR TO EQUIPMENT ORDER.

SUPPORT ALL-THREAD ROD SHALL BE LOCATED AT JOIST BOTTOM CHORD PANEL.

SNAP 'N SHIELD REFRIGERANT PIPING SUPPORT DETAIL — 16
NOT TO SCALE

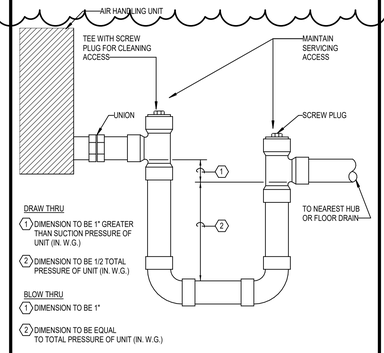


REFRIGERANT PIPING - ROOF ACCU DETAIL — 15
NOT TO SCALE

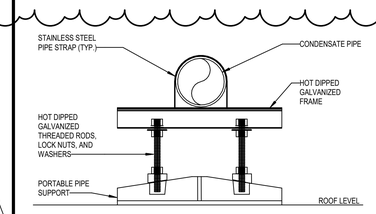


NOTE:
1. PORTABLE PIPE SUPPORTS SHALL BE MANUFACTURED BY ADVANCED SUPPORT PRODUCT, INC., MODEL SS1000A/SS2000-CB-ADJ (AS APPLICABLE) OR PRIOR APPROVAL EQUAL.
2. ALL METAL MATERIALS SHALL BE HOT-DIPPED GALVANIZED.
3. CONTRACTOR SHALL FIELD GALVANIZE ALL SURFACES THAT ARE EXPOSED DUE TO FIELD CUTS/ MODIFICATIONS.

PORTABLE REFRIGERANT PIPE SUPPORT DETAIL — 14
NOT TO SCALE

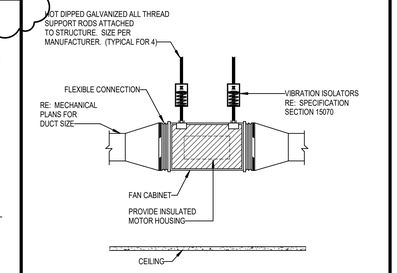


CONDENSATE TRAP PIPING DETAIL — 13
NOT TO SCALE



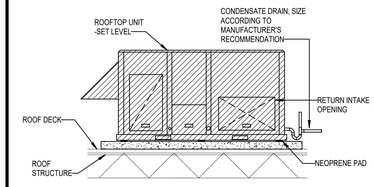
NOTES:
1. PORTABLE PIPE SUPPORTS SHALL BE MANUFACTURED BY ADVANCED SUPPORT PRODUCT, INC., MODEL SS1000A/SS2000-CB-ADJ (AS APPLICABLE) OR PRIOR APPROVED EQUAL.
2. ALL METALS MATERIALS SHALL BE HOT-DIPPED GALVANIZED.
3. CONTRACTOR SHALL FIELD GALVANIZE ALL SURFACES THAT ARE EXPOSED DUE TO FIELD CUTS/ MODIFICATIONS.

CONDENSATE PIPE SUPPORT DETAIL — 12
NOT TO SCALE

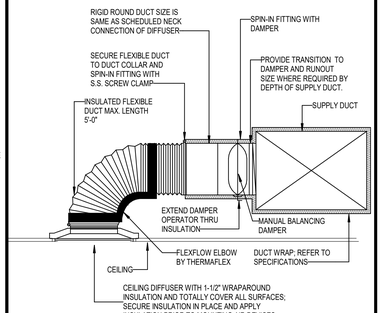


NOTES:
1. INSULATE FAN INTERIOR WITH 1" THICK 3.0 P.F.C. DENSITY ACOUSTICAL LINER WITH 100% ADHESIVE AND STICKPINS PER SMACNA. COAT AIR SIDE WITH FOSTER 40-20 ANTIMICROBIAL COATING.
2. FAN SHALL INCLUDE (2) REMOVABLE ACCESS PANELS LOCATED PERPENDICULAR TO THE MOTOR MOUNTING PANEL. ACCESS PANELS MUST BE OF SUFFICIENT SIZE TO PERMIT EASY ACCESS TO ALL INTERIOR COMPONENTS.

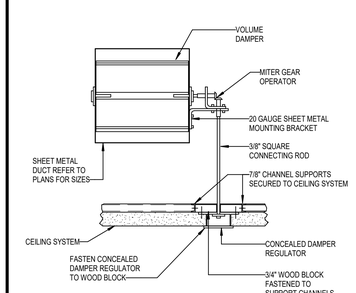
IN-LINE EXHAUST FAN DETAIL — 11
NOT TO SCALE



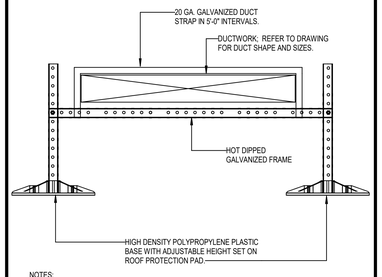
ROOFTOP AIR CONDITIONING UNIT WITH HORIZONTAL DISCHARGE DETAIL — 10
NOT TO SCALE



CEILING DIFFUSER CONNECTION DETAIL — 9
NOT TO SCALE

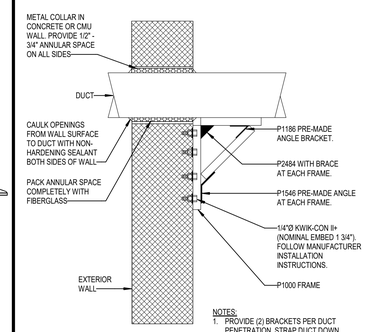


DAMPER OPERATOR IN NON - ACCESSIBLE CEILINGS DETAIL — 8
NOT TO SCALE



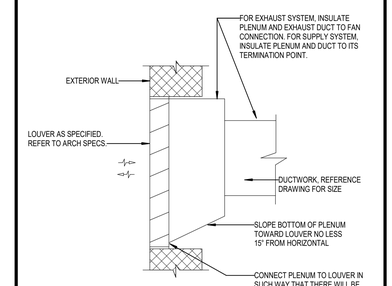
NOTES:
1. SPACE DUCT SUPPORTS AT MAXIMUM INTERVALS OF 5'-0" ON CENTER. ALL METAL MATERIALS SHALL BE HOT-DIPPED GALVANIZED.
2. REFER TO SPECIFICATION SECTION 23 05 29; 2.11 PORTABLE DUCT SUPPORTS.
3. CONTRACTOR SHALL FIELD GALVANIZE ALL SURFACES THAT ARE EXPOSED DUE TO FIELD CUTS/ MODIFICATIONS.

PORTABLE DUCT SUPPORT DETAIL — 7
NOT TO SCALE



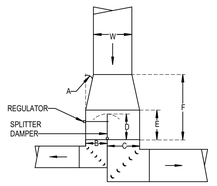
NOTES:
1. PROVIDE (2) BRACKETS PER DUCT PENETRATION. STRAP DUCT DOWN TO BRACKETS.

EXTERIOR WALL DUCT SUPPORT DETAIL — 6
NOT TO SCALE

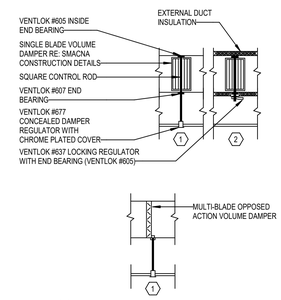


DUCTWORK AT LOUVER CONNECTION DETAIL — 5
NOT TO SCALE

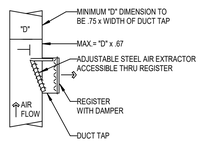
SPLITTER



DIMENSIONS
1. ANGLE 'A' TO BE 15° OR LESS (BOTH SIDES)
2. SEE FLOOR PLANS FOR B, C, & W.
3. SPLITTER DAMPER LENGTH D = 1.5 x B
4. E = D + 3" MINIMUM
5. VERTICAL DIMENSION TO BE MAINTAINED THRU F.
6. CHANGE IN VERTICAL DIMENSION TO OCCUR AFTER TURNS.

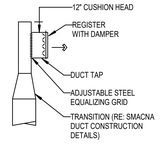


AIR EXTRACTOR AT SIDEWALL REGISTER

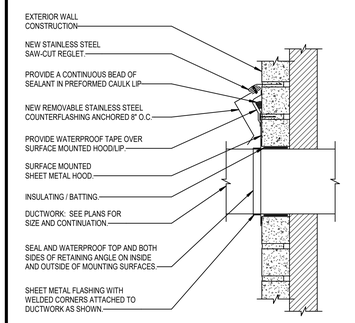


1. MAX. WIDTH OF DUCT TAP SHALL BE 48". PROVIDE BOTTOM BRACKET FOR SUPPORT WHERE EXTRACTOR EXCEEDS 16".
2. MAX. HEIGHT OF DUCT TAP SHALL BE 12" (MIN. = 4")

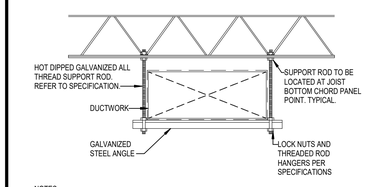
SIDEWALL REGISTER AT END OF DUCT



DUCT CONSTRUCTION DETAIL — 1
NOT TO SCALE

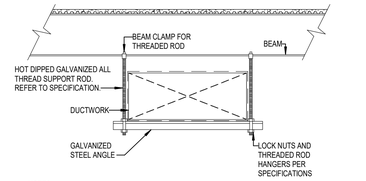


DUCT THROUGH EXTERIOR WALL PENETRATION DETAIL — 4
NOT TO SCALE

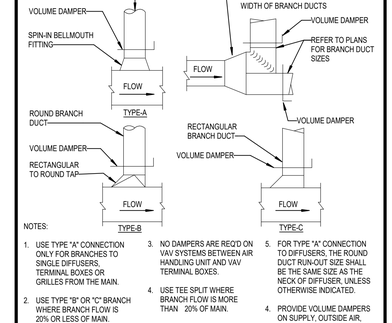


NOTES:
1. FOLLOW SMACNA GUIDELINES FOR SPACING REQUIREMENTS.
2. CONTRACTOR SHALL OBTAIN STRUCTURAL ENGINEER APPROVAL FOR ANY AND ALL DUCTWORK MOUNTING DETAILS AT CONCRETE.
3. CONTRACTOR SHALL INSTALL DUCT HANGER ROD WITHIN 3" AT JOIST BOTTOM CHORD PANEL POINT. IF HANGER ROD DOES NOT OCCUR WITHIN 2" AT BOTTOM CHORD PANEL POINT THAN LOAD SHALL NOT EXCEED 100# CONCENTRATED LOAD AT EACH THREADED ROD HANGER LOCATION.
4. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL JOIST REINFORCEMENTS REQUIREMENTS IF DUCT HANGER RODS ARE MORE THAN 3" FROM JOIST BOTTOM CHORD PANEL POINT AND EXCEED 100# CONCENTRATED LOAD.
5. IF DUCT RUNS PARALLEL WITH STRUCTURE, PROVIDE SECURED UNISTRUT HEADER LAID ACROSS MULTIPLE JOISTS MOUNTED TO JOIST BOTTOM CHORD.
6. BEAM CLAMPS AND FLANGE CLIPS ARE NOT ACCEPTABLE FOR JOISTS.

DUCT HANGER TRAPEZE DETAIL — 3
NOT TO SCALE



NOTES:
1. FOLLOW SMACNA GUIDELINES FOR SPACING REQUIREMENTS.
2. CONTRACTOR SHALL OBTAIN STRUCTURAL ENGINEER APPROVAL FOR ANY AND ALL DUCTWORK MOUNTING DETAILS AT CONCRETE.



NOTES:
1. USE TYPE "A" CONNECTION ONLY FOR BRANCHES TO SINGLE DIFFUSERS, TERMINAL BOXES OR GRILLES FROM THE MAIN.
2. USE TYPE "B" OR "C" BRANCH WHERE BRANCH FLOW IS 20% OR LESS OF MAIN.
3. NO DAMPERS ARE REQ'D ON VAV SYSTEMS BETWEEN AIR HANDLING UNIT AND VAV TERMINAL BOXES.
4. USE TEE SPLIT WHERE BRANCH FLOW IS MORE THAN 20% OF MAIN.
5. FOR TYPE "A" CONNECTION TO DIFFUSERS, THE ROUND DUCT RUN-OUT SIZE SHALL BE THE SAME SIZE AS THE NECK OF DIFFUSER, UNLESS OTHERWISE INDICATED.
6. PROVIDE VOLUME DAMPERS ON SUPPLY, OUTSIDE AIR, RETURN AND EXHAUST DUCT SYSTEMS AS SHOWN.

BRANCH DUCT DETAILS — 2
NOT TO SCALE

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Galena Park ISD	
DATE	PROJECT NUMBER
2025/10/17	240539

DRAWING HISTORY

No.	Description	Date
1	ADD 02	10/31/2025

CHECKED BY: MP
DRAWN BY: CT

MECHANICAL DETAILS

M-601

Plot Stamp:
10/31/2025 11:57:38 AM