TOMBALL INDEPENDENT SCHOOL DISTRICT

RFP-CSP #1006-26 – TOMBALL HS MULTI-PROGRAM ACTIVITY CENTER

ISSUED: October 27, 2026
REQUEST FOR COMPETITIVE SEALED PROPOSALS FOR
TOMBALL HS MULTI-PROGRAM ACTIVITY CENTER

Addendum No. 01

Novmember 9, 2026

Questions and Clarifications to the RFP Document:

1. *Question:* None at this time
   Response:
2. *Question:* None at this time
   Response:

Questions and Clarifications to the Drawings:

1. *Question:* Addressing clarifications to the drawings
   Response: See attached

Questions and Clarifications to the Specifications:

1. *Question:* Addressing clarifications to the specifications
   Response: See attached

End of Addendum

ADDENDUM 01

Addendum No:	01	**Issue Date:**	11/06/2026
Project:	Tomball HS - MPAC	**To Drawings + Specifications dated**	10/30/
Prepared By:	PBK Architects, Inc. 11 Greenway Plaza, 22nd Floor Houston, Texas 77046		
PBK Project No:	25046901		



NOTICE TO PROPOSERS

A. Receipt of this Addendum shall be acknowledged on the Proposal Form.

B. This Addendum forms part of the Contract documents for the above referenced project and shall beincorporated integrally therewith.

C. Each proposer shall make necessary adjustments and submit his proposal with full knowledge of all modifications, clarifications, and supplemental data included therein. Where provisions of the followingsupplemental data differ from those of the original Contract Documents, this Addendum shall govern.

GENERAL ITEMS

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Contractor General Questions:

Structural

Item No. 01:
The structural foundation plans indicate that, for bidding purposes, the contractor should assume removal of 5 feet of existing soil beneath the sports field and replacement with select fill.

- Is the 5-foot removal and replacement requirement still the current bid basis?

Response: Forthcoming

- Has an updated geotechnical recommendation been issued for the athletic field?

Response: Forthcoming

- Does this requirement apply to the entire sports-field footprint?

Response: Forthcoming

- Should this work be included in the site earthwork subcontractor's scope?

Response: Forthcoming

Geotechnical

Item No. 02:
The geotechnical report identifies an existing pond within the proposed fire-lane area that will require removal of unsuitable material and engineered backfill.

- Can the limits of the existing pond requiring backfill be confirmed?

Response: Existing pond will not require backfilling. – DIG Engineering

- Is there a specified excavation depth for unsuitable material, or will removal limits be determined by the geotechnical engineer during construction?

Response: Existing pond will not require backfilling. – DIG Engineering

- Should unsuitable excavation, disposal, and replacement be included in the base bid, or carried as separate unit-price items?

Response: Provide as unit price. – PBK

- Is imported select fill required throughout the pond backfill area beneath the fire lane?

Response: Existing pond will not require backfilling. – DIG Engineering

Civil

Item No. 03:

- Can you confirm that the building pad earthwork should follow the Terracon geotechnical recommendations together with the structural foundation requirements?

Response: Forthcoming

- Are there any updated geotechnical reports, addenda, or earthwork specifications that supersede the documents currently issued?

Response: None at this time

- Synthetic Turf / E-Layer / Cooling Infill: Drawing CA-105, Detail 7, calls for synthetic turf with cooling infill over a 19mm E-Layer. However, the specifications call for FieldTurf Prestige XM, with a 40 oz. pile weight and 2.25" pile height, but do not specifically require an E-Layer or cooling infill. Could you please clarify whether the E-Layer and cooling infill are required?

Response: E-layer and cooling infill are not required.

- Pad in Lieu of E-Layer: The specifications indicate that a pad may be provided to meet the required G-max performance criteria. Can you please confirm whether a pad can be provided in lieu of the E-Layer? If so, please confirm the acceptable manufacturer and required pad thickness.

Response: Pad not required as long as turf meets Gmax criteria.

MEP

Item No. 04:

- The fire alarm spec calls out for a Notifier system. Typically Tomball is EST only. Can you please verify which system is required?

Response: Tomball ISD standards specification calls out "Notifier" as basis of design.

SPECIFICATIONS

Architectural:

Item No. 1 **Section 01 21 00 - STRUCTURAL ALLOWANCE: DELETE** duplicate specification allowance from Kubala Engineers in its entirety.

Item No. 2 **Section 01 23 00 – MECHANICAL ALTERNATES: DELETE** duplicate specification section in its entirety.

Item No. 3 **Section 01 60 13 – EXTERIOR DESIGN SELECTION: DELETE / REPLACE** specification in its entirety. See attached

Item No. 4 **Section 07 42 13 – METAL WALL AND SOFFIT PANELS: DELETE / REPLACE** specification in its entirety. See attached

Item No. 5 **Section 08 44 13 – GLAZED ALUMINUM CURTAIN WALLS – Part 2 Products, 2.1 Framing, Item D: REVISEd** curtain wall frame size to be 2 ½"x6" in lieu of 2 ½"x7".

Item No. 6 **Section 10 73 13 – ALUMINUM CANOPY - Part 2-Products, Item 2.1: ADDED** line item H: Color and I:Soffit to specifications. **REPLACE** specification in its entirety. See attached.

Item No. 7 **Section 13 34 19 – METAL BUILDING SYSTEMS – Part 2 Products, 2.1 Manufacturers, ADD** line item 10 - Red Dot Buildings (www.reddotbuilds.com) to approve list of manufacturers. **REVISED** section 2.5 Materials Walls and Roofs and section 2.8 Fabrication – Walls and Roof Panels. See attached.

Item No. 8 **Section 41 22 23.1 – MONORAIL HOIST** – **ADD** specification in its entirety. See attached

DRAWINGS

ARCHITECTURAL

Item No. 1 **Sheet G0.16 ACCESSABILITY MOUNTING HEIGHTS :**

a. **DELETE** Unused typical accessory mounting height details not applicable to this project

Item No. 2 **Sheet A110A LEVEL 1 FLOOR PLAN AREA A :**

b. **DELETE -**
c. **ADD** AED added in lobby area.

Item No. 3 **Sheet A110B LEVEL 1 FLOOR PLAN AREA B:**

d. **ADD** AED added to field area.

Item No. 4 **Sheet A120 MEZZANINE FLOOR PLAN :**

e. **ADD** Step added Infront of roof access door b202 due to raised sill height.

Item No. 5 **Sheet A301 ROOF PLAN OVERALL :**

f. **ADD** Revised cricketing to ensure overflow drains sit in same flat area as primary roof drains . Roof access hatch adjusted to match dimensions denoted on roof access hatch detail.

Item No. 6 **Sheet A301A ROOF PLAN AREA A :**

g. **ADD** Revised cricketing to ensure overflow drains sit in same flat area as primary roof drains . Roof access hatch adjusted to match dimensions denoted on roof access hatch detail.

Item No. 7 **Sheet A301B ROOF PLAN AREA B :**

h. **ADD** Revised cricketing to ensure overflow drains sit in same flat area as primary roof drains . Roof access hatch adjusted to match dimensions denoted on roof access hatch detail.

Item No. 8 **Sheet A322 ROOF DETAILS :**

i. **Delete** removed details previously crossed out on bid set.

Item No. 9 **Sheet A323 EXPANSION JOINT DETAILS :**

j. **ADD** updated to show metal panel updates for overall elevations. No change to expansion joint detailing.

Item No. 10 **Sheet A401 ENLARGED PLANS :**

k. **Updated** to remove color from MEP model for clarity. Toilet accessories revised to remove items not required in this project.

Item No. 11 **Sheet A500 EXTERIOR ELEVATIONS OVERALL :**

l. **Updates** to exterior metal panels to include additional MCM colors and color clarifications for the formed metal wall panels. Detail 5 levels had visibility graphic issues which were cleaned up.

Item No. 12 **Sheet A521 INTERIOR ELEVATIONS :**

m. Room names fixed. View ranges adjusted to make sure materials visible and tagged.

Item No. 13 **Sheet A522 INTERIOR ELEVATIONS :**

n. Room names fixed. View ranges adjusted to make sure materials visible and tagged.

Item No. 14 **Sheet A525 INTERIOR ELEVATIONS :**

o. View ranges fixed to ensure MEP items in mech spaces not showing through walls and MEP color removed for clarity.

Item No. 15 **Sheet A526 INTERIOR ELEVATIONS :**

p. View ranges fixed to ensure MEP items in mech spaces not showing through walls and MEP color removed for clarity.

Item No. 16 **Sheet A601 BUILDING SECTIONS :**

q. MEP color turned off for clarity, Foundation system intent representation added to all sections.

Item No. 17 **Sheet A610 WALL SECTIONS AREA A :**

r. MEP color removed for clarity. Parapet detail callouts added.

Item No. 18 **Sheet A611 WALL SECTIONS AREA A :**

a. MEP color removed for clarity. Parapet detail callouts added, **.**

Item No. 19 **Sheet A620 WALL SECTIONS AREA B :**

b. MEP color removed for clarity. Parapet detail callouts added, Dimensions added to masonry walls. Louver detail callouts added.

Item No. 20 **Sheet A633 STAIR PLANS AND DETAILS :**

c. Stair railing adjusted to sit at mezzanine level. Color removed from MEP model for clarity. Step Added infront of roof access door with raised sill, section reference shown on adjacent plan. .

ATTACHMENTS

Specifications:
Architectural

Item No. 1	01 60 13 – Exterior Design Selection
Item No. 2.	07 42 13 – Metal Wall and Soffit Panels
Item No. 3	10 73 13 – Aluminum Canopy
Item No. 4	13 34 19 – Metal Building Systems
Item No. 5	41 22 33

Drawings:
Architectural

Item No. 1	G0-01	Sheet Index
Item No. 2.	G0.16	Accessibility Mounting Heights
Item No. 3	A110A	Level 1 Floor Plan Area A
Item No. 4	A110B	Level 1 Floor Plan Area B
Item No. 5	A120	Mezzanine Floor Plan
Item No. 6	A301	Roof Plan Overall
Item No. 7	A301A	Roof Plan Area A
Item No. 8	A301B	Roof Plan Area B
Item No. 9	A322	Roof Details
Item No. 10	A323	Expansion Joint Details

Item No. 11	A401	Enlarged Plans
Item No. 12	A500	Exterior Elevations Overall
Item No. 13	A521	Interior Elevations
Item No. 14	A522	Interior Elevations
Item No 15	A525	Interior Elevations
Item No. 16	A526	Interior Elevations
Item No. 17	A601	Building Sections
Item No. 18	A610	Wall Sections Area A
Item No. 19	A611	Wall Sections Area A
Item No. 20	A620	Wall Sections Area B
Item No. 21	A633	Stair Plans and Details

END OF ADDENDUM 01

SECTION 01 60 13 - EXTERIOR DESIGN SELECTIONS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. This Section includes a schedule summary of Design Selections for materials and finishes technically specified in various technical Sections of this Project Manual.

1.3 PROCEDURES

A. References in this Section to specific manufacturer, model name and model number, are to establish preferred design selection standard only. Other "Acceptable Manufacturers" listed in the technical section, if qualified, are allowed to submit in accordance with Division 1 Section "Product Requirements".

B. Each material selection is referenced by Section name and number to where it is specified.

1.4 SELECTIONS BY SECTION

03 35 00 – Concrete Finishing

Sealed Concrete (SC): Penetrating liquid floor hardener; refer to technical section for requirements.
Finish: Light Broom.

04 20 00 – Unit Masonry

BK-1: Face Brick
Manufacturer: Kansas Brick – Upchurch Kimbrough
Color / Finish: 500 Charcoal
Size: Utility
Mortar Color: TBD
Location: As indicated on the Drawings.

05 50 00 – Metal Fabrications

HPP-1: High Performance Paint
Basis of Design: Tnemec Series 90-97 Tneme-Zinc,
Type: Zinc-Rich Aromate Urethane match Sherwin Williams
Color: Tricorn Black, SW 6258.

07 42 13 – Metal Wall Panels

MWP-1
Manufacturer: PAC-CLAD
Type: Flush metal wall panel
Color: Musket Gray

MWP-2 -Metal Panel
Manufacturer: PAC-CLAD
Type: Box Rib 3-Box Rib 4
Color: Musket Gray

MWP-3
Manufacturer: PAC-CLAD
Type: Reveal metal wall panel
Color: Stone White

MWP-4
Manufacturer: PAC-CLAD
Type: Reveal metal wall panel
Color: Slate Gray

MCM-1 Metal Panel Composite
Manufacturer: Alucobond
Color:
MCM-1 Market Pearl White Mica
MCM-2 Red Fire
MCM-3 Graphite Mica

08 11 13 – Hollow Metal Doors and Frames

Color: Reference Door Schedule.

08 41 13 – Aluminum Framed Entrance and Storefront and Curtain Wall

SF-1&2: Basis of Design Manufacturer: Kawneer North America; an Alcoa Company.
Basis of Design Product: Trifab 451.
Finish / Color: Clear Anodized.

CW 1-5: Basis of Design Manufacturer: Kawneer North America; an Alcoa Company.
Basis of Design Product: 1600.
Finish / Color: Clear Anodized.

08 80 00 – Glazing

GL-1 **Clear Insulated Vision Glass:** 1 inch (25 mm) sealed insulated unit consisting of an exterior lite of 1/4 inch (6 mm) SunGuard SNX 60+ low-e (#2) clear tempered float glass, 1/2 inch gas filled air space, and 1/4 inch (6 mm) clear tempered float glass interior lite.

GL-2 **Clear Insulated Spandrel Glass:** 1 inch (25 mm) sealed insulated unit consisting of an exterior lite of 1/4 inch (6 mm) SunGuard SNX 60+ low-e (#2) clear tempered float glass, 1/2 inch gas filled air space, and 1/4 inch (6 mm) clear tempered float glass interior lite with Charcoal Gray Opaci-Coat (#4).

GL-3 **Gray Insulated Vision Glass:** 1 inch (25 mm) sealed insulated unit consisting of an exterior lite of 1/4 inch (6 mm) SunGuard SNX 60+ low-e (#2) Gray tempered float glass, 1/2 inch gas filled air space, and 1/4 inch (6 mm) clear tempered float glass interior lite.

GL-4 **Red Insulated Vision Glass:** 1-1/16 inch (25 mm) sealed insulated unit consisting of an exterior lite of 3/16 inch (5 mm) clear tempered float glass, .090 PVB Vanceva Interlayer (Color: 0C1C), 3/16 inch (5mm) clear tempered float glass, 3/8 inch

(8mm) air space, and ¼ inch (6mm) SunGuard SNX 60+ low-e (#5) clear tempered float glass interior lite.

GL-5 **Gray Insulated Spandrel Glass:** 1 inch (25 mm) sealed insulated unit consisting of an exterior lite of 1/4 inch (6 mm) SunGuard SNX 60+ low-e (#2) gray tempered float glass, 1/2 inch gas filled air space, and 1/4 inch (6 mm) clear tempered float glass interior lite with Charcoal Gray Opaci-Coat (#4).

GL-6 **Red Insulated Spandrel Glass:** 1-1/16 inch (25 mm) sealed insulated unit consisting of an exterior lite of 3/16 inch (5 mm) clear tempered float glass, .090 PVB Vanceva Interlayer (Color: 0C1C), 3/16 inch (5mm) clear tempered float glass, 3/8 inch (8mm) air space, and ¼ inch (6mm) SunGuard SNX 60+ low-e (#5) clear tempered float glass interior lite with Charcoal Gray Opaci-Coat (#6).

GL-7 3/8" CLEAR TEMPERED GLASS:

PART 2 - PRODUCTS - Not Used

PART 3 - EXECUTION - Not Used

END OF SECTION 01 60 13

SECTION 07 42 13 - METAL WALL AND SOFFIT PANELS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes: Requirements including but not limited to:
   1. Concealed fastener metal wall panels as part of the assembly.
   1. Modular metal wall panel system consisting of aluminum panels in a rainscreen application.
   2. Accessories necessary for a complete installation.

1.3 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer, licensed in the State of Texas with experience in the design of metal composite wall panels as part of curtainwalls and aluminum storefront systems to design and coordinate the cladding assembly using performance requirements and design criteria indicated.

1.4 SYSTEM REQUIREMENTS

A. Modular Metal Panel System: Rainscreen design consisting of dry seal joinery designed, attachment system components, and associated necessary to minimize water penetration and induce air circulation in the space behind the panel system. Moisture weeping trim at panel base details allows water to drain out of the system.

1.5 SUBMITTALS

A. Product Data: Technical data including construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of panel and accessory.

B. Shop Drawings: Provide shop drawings prepared by manufacturer or manufacturer's authorized dealer. Include full elevations showing openings and penetrations. Include details of each condition of installation and attachment. Provide details at a minimum scale 3-inch per foot of all required trim and extrusions needed for a complete installation.
   1. Include data indicating compliance with performance requirements.
   2. Indicate points of supporting structure that must coordinate with modular metal panel system installation.

C. Samples:
   1. One (1) ft long sample of each listed panel, including clips (if applicable) & fasteners
   2. Minimum 2" x 4" chip of specified finish.

D. Qualification Information: For Installer and Installer's field supervisor.

E. Sample Warranties: Submit proposed warranty meeting requirements of this Section.

1.6 DELIVERY AND STORAGE

A. All panels shall be delivered with appropriate packaging to provide protection against transportation damage. Materials damaged in shipping or storage shall not be used.

B. Store all materials and accessories above ground on well-skidded platforms. Store under waterproof covering. Provide proper ventilation to panels to prevent condensation build-up between panels.

1.7 COORDINATION

A. Coordinate work with installation of associated metal flashings and manufactured roof panels.

B. General contractor shall coordinate with all subcontractors including masonry, waterproofing membrane, sheathing work, and framing to ensure walls are plumb and ready to accept fasteners and panel systems.

C. Pre-construction meeting required with owner and architect. Representatives from all associated trades shall attend to coordinate arrival, delivery, and installation of products and materials.

1.8 WARRANTY

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

B. Provide a manufacturer's twenty (20) year finish integrity warranty.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis of Design Manufacturer: PAC-CLAD / Petersen Company; Tyler, TX, (800) 441-8661. Other manufacturers may bid on this project provided they comply with all requirements of this specification. Product listed is considered basis of design and owner shall not be responsible for any costs resulting from change of manufacturer including sizes, trim pieces, structural, or system components. Manufacturers listed below who produce equivalent products to those specified are approved for use on the Project. Other manufacturers must have a minimum of ten (10) years' experience manufacturing products meeting or exceeding the specifications and comply with Division 1 requirements regarding substitutions to be considered.
   1. Alcoa, New York, NY (800) 841-7774.
   2. CENTRIA Architectural Systems; Township, PA (800) 759-7474.
   3. MBCI, Houston, Tx, (281) 445-8555.
   4. Berridge Manufacturing Company; Houston, TX, (800) 231-8127

B. Color: From manufacturers complete line of colors selections.

2.2 MATERIALS

A. Concealed Fastener, Corrugated (**MWP-2**):
   1. Prefinished Sheet Material: 22-gauge thick Galvalume® steel sheet, minimum yield 50,000 PSI, roll formed in continuous lengths, ASTM A792.
   2. Rib Height: 1.375"
   3. Finish: Kynar 500 or Hylar 5000 Fluoropolymer coating, applied by the manufacturer on a continuous coil coating line, with a top side dry film thickness of 0.70 to 0.90 mil over 0.25 to 0.35 mil prime coat, to provide a total dry film thickness of 0.95 to 1.25 mil. Bottom side shall be coated with primer with a dry film thickness of 0.25 mil. Finish shall conform to all tests for adhesion, flexibility, and longevity as specified by the Kynar 500 or Hylar 5000

finish supplier. Color shall be as selected by Architect from manufacturer's available colors. Interior surface finish shall be manufacturer's standard color.

4. Touch-up Paint: Paint burns, scars, welds, and damaged and rusted surfaces with cold galvanizing paint in accordance with ASTM A780. Acceptable Products include ZRC Cold Galvanizing Compound or Galvilite manufactured by ZRC Worldwide, Marshfield, MA; Galvax Zinc-rich Cold Galvanizing Coating manufactured by Alvin Products, Inc., Lawerence, MA; or paint complying with military specification MILP-21035A, Type I or II.
5. Strippable Film: Shall be applied to the top side of the painted coil to protect the finish during fabrication, shipping and field handling. This strippable film must be removed before installation.
6. Accessories:
   1) Sealant: As specified in Section 07 92 00.
   2) Cold Formed Metal Framing: As specified in Section 05 40 00.
   3) Girts, Sub-girts, purlins: 16 gauge minimum thickness (55,000 psi minimum yield thickness) galvanized steel, with Stainless Steel screws to meet application.
   4) Fasteners: long-life, corrosion resistant screws supplied or instructed by panel manufacturer to suit application spaced according to UL requirements, color matched to match metal panel color.
   5) Clips, miscellaneous fasteners: galvanized steel as supplied or instructed by panel manufacturer.
   6) Metal Trim, closures, and flashing: Exposed adjacent flashing shall be the same material and finish as panel system.
   7) Separate dissimilar metals with asphalt-saturated building felt or a bituminous coating to prevent galvanic action.
   8) Dampproofing: refer to section 07 11 00.
7. Approved Product/Manufacturer: PAC-CLAD; **Box Rib 3 (MWP-2)** and **Box Rib 4 (MWP-2)**, or Architect approved equal.
8. Color: Refer to specification section 01 60 13 Exterior Design Selections

C. Flush Wall Panels **(MWP-1, MWP-3, MWP-4)**:
1. Basis of Design Product: (**MWP-1)** Flush Panel - Wall panel manufactured by PAC-CLAD / Petersen Company.
2. Basis of Design Product: (**MWP-3, MWP-4)** Reveal Panel - Wall panel manufactured by PAC-CLAD / Petersen Company.
2. Metallic–Coated Steel Sheet: Aluminum-zinc alloy-coated steel sheet complying with ASTM A 792/A 792M, Class AZ50 coating designation; structural quality. Pre-painted by the coil-coating process to comply with ASTM A 755/A 755M.
   a. Nominal Thickness: 0.050 inch
   b. Panel width: 12" O.C.
   c. Surface: Smooth, flat finish. (MWP-1)
   d. Surface: Reveal, flat finish. (MWP-3,MWP-4)
   e. Exterior Finish: Metallic Two Coat fluoropolymer
   f. Color: Refer to specification section 01 60 13 Exterior Design Selections

C. Flat Seam Soffit Panels **(MWP-5)**:
1. Basis of Design Product: Soffit panel manufactured by PAC-CLAD / Petersen Company.
2. Metallic–Coated Steel Sheet: Aluminum-zinc alloy-coated steel sheet complying with ASTM A 792/A 792M, Class AZ50 coating designation; structural quality. Pre-painted by the coil-coating process to comply with ASTM A 755/A 755M.
   g. Nominal Thickness: 0.024 inch (0.61 mm).
   h. Surface: Smooth, flat finish.
   i. Exterior Finish: Metallic Two Coat fluoropolymer
   j. Color: To match panel facia color

D. All Cold-Formed Metal Framing for Metal Wall and Soffit Panels to be designed by a Texas Licensed Profession Engineer per spec. Section 05 40 00.
Professional Engineer

E. Accessories:
1. Zees: 16 gauge minimum thickness galvanized steel, 2 inch rise minimum, or as required to align with existing conditions.
2. Sub-Girt Fasteners: Stainless Steel screws to meet application.
3. Concealed Fasteners: Stainless Steel screws supplied or recommended by panel manufacturer to suit application.
4. Metal Trim at Siding Panels: 0.060 inch thick pre-finished aluminum sheet, matching finish type and color of siding panels.
5. Closures: 0.060 inch thick aluminum sheet, mill finish.
6. Separate dissimilar metals with asphalt-saturated building felt or a bituminous coating to prevent galvanic action.
7. Air Barrier: High temperature air barrier. Re: 07 26 00.
8. Polyisocyanurate: Shall comply with NFPA 285 & ASTM G 2357 & ASTM E 331. Thickness shall be 2-inch.
9. Access Panels: Refer to 08 31 13 Specification.

PART 3 - EXECUTION

3.1 EXAMINATION OF MODULAR METAL PANEL SYSTEM

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, metal composite material panel supports, and other conditions affecting performance of the Work.
1. Examine wall framing to verify that girts, angles, channels, studs, and other structural panel support members and anchorage have been installed within alignment tolerances required by metal composite material wall panel manufacturer.
2. Examine wall sheathing to verify that sheathing joints are supported by framing or blocking and that installation is within flatness tolerances required by metal composite material wall panel manufacturer.
a. Verify that air or water resistive barriers have been installed over sheathing or backing substrate to prevent air infiltration or water penetration.

B. Examine roughing in for components and assemblies penetrating metal composite material panels to verify actual locations of penetrations relative to seam locations of metal composite material panels before installation.

C. Proceed with installation after correcting unsatisfactory conditions.

3.2 PREPARATION

A. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages according to ASTM C 754 and metal composite material panel as required by manufacturer's written recommendations.

3.3 SOFFIT PANEL INSTALLATION

A. Install metal wall panels according to manufacturer's written instructions in orientation, sizes, and locations indicated on Drawings. Install panels perpendicular to supports unless otherwise indicated. Anchor metal composite material panels and other components of the work securely in place, with provisions for thermal and structural movement.

1. Shim or otherwise plumb substrates receiving metal composite material panels.
2. Flash and seal metal composite material panels at perimeter of all openings. Fasten with self-tapping screws. Do not begin installation until air or water resistive barriers and flashings that will be concealed by metal composite material panels are installed.
3. Install screw fasteners in predrilled holes.
4. Locate and space fastenings in uniform vertical and horizontal alignment.
5. Install flashing and trim as metal composite material panel work proceeds.
6. Locate panel splices over, but not attached to, structural supports. Stagger panel splices and end laps to avoid a four-panel lap splice condition.
7. Align bottoms of metal composite material panels and fasten with blind rivets, bolts, or self-tapping screws. Fasten flashings and trim around openings and similar elements with self-tapping screws.
8. Provide weathertight escutcheons for pipe and conduit penetrating panels.

B. Fasteners:
   1. Aluminum Panels: Use aluminum or stainless-steel fasteners for surfaces exposed to the exterior; use aluminum or galvanized steel fasteners for surfaces exposed to the interior.

C. Metal Protection: Where dissimilar metals contact each other or corrosive substrates, protect against galvanic action as recommended in writing by metal composite material panel manufacturer.

D. Attachment Assembly, General: Install attachment assembly required to support metal composite material wall panels and to provide a complete weathertight wall system, including subgirts, perimeter extrusions, tracks, drainage channels, panel clips, and anchor channels.
   1. Include attachment to supports, panel to panel joinery, panel to dissimilar material joinery, and panel system joint seals.

E. Installation: Attach metal composite material wall panels to supports at locations, spacings, and with fasteners recommended by manufacturer to achieve performance requirements specified.
   1. Wet Seal Systems: Seal horizontal and vertical joints between adjacent metal composite material wall panels with sealant backing and sealant. Install sealant backing and sealant according to requirements specified in Section 07 92 00.
   2. Dry Seal Systems: Seal horizontal and vertical joints between adjacent metal composite material wall panels with manufacturer's standard gasket system.
   3. Rainscreen Systems: Do not apply sealants to joints unless otherwise indicated.

F. Clip Installation: Attach panel clips to supports at locations, spacings, and with fasteners recommended by manufacturer. Attach routed and returned flanges of wall panels to panel clips with standard fasteners.
   1. Seal horizontal and vertical joints between adjacent panels with sealant backing and sealant. Install sealant backing and sealant according to requirements specified in Section 07 92 00.
   2. Seal horizontal and vertical joints between adjacent metal composite material wall panels with manufacturer's standard gaskets.

G. Subgirt and Spline Installation: Install support assembly at locations, spacings, and with fasteners recommended by manufacturer. Use manufacturer's standard subgirts and splines that provide support and complete secondary drainage assembly, draining to the exterior at horizontal joints. Attach metal composite material wall panels by interlocking perimeter extrusions attached to panels with subgirts and splines. Fully engage integral subgirt and spline gaskets and leave horizontal and vertical joints with open reveal. Terminate edge of panels flush with perimeter extrusions.
   1. Install wall panels to allow individual panels to free float and be installed and removed without disturbing adjacent panels.

2. Do not apply sealants to joints unless otherwise indicated.

H. Track Support Installation: Install support assembly at locations, spacings, and with fasteners recommended by manufacturer. Use manufacturer's standard horizontal tracks and vertical tracks that provide support and secondary drainage assembly, draining to the exterior at horizontal joints through drain tube. Attach metal composite material wall panels to tracks by interlocking panel edges with manufacturer's standard "T" clips.
   1. Attach routed and returned flanges of wall panels to perimeter extrusions with manufacturer's standard fasteners.
   2. Attach flush wall panels to perimeter extrusions by engaging panel edges and by attaching with manufacturer's standard structural silicone adhesive.
   3. Install wall panels to allow individual panels to "free float" and be installed and removed without disturbing adjacent panels.
   4. Do not apply sealants to joints unless otherwise indicated.

I. Rainscreen Principle Installation: Install using assembly with vertical channel that provides support and secondary drainage assembly, draining at base of wall. Notch vertical channel to receive support pins. Install vertical channels supported by channel brackets or adjuster angles and at locations, spacings, and with fasteners recommended by manufacturer. Attach metal composite material wall panels by inserting horizontal support pins into notches in vertical channels and into flanges of panels. Leave horizontal and vertical joints with open reveal.
   1. Install wall panels to allow individual panels to be installed and removed without disturbing adjacent panels.
   2. Do not apply sealants to joints unless otherwise indicated.

J. Accessory Installation: Install accessories with positive anchorage to building and weathertight mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.
   1. Install components required for a complete metal wall panel assembly including trim, copings, corners, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items. Provide types indicated by metal composite material panel manufacturer; provide types recommended in writing by metal composite material panel manufacturer.

K. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA *Architectural Sheet Metal Manual*. Provide concealed fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams that are permanently watertight.
   1. Install exposed flashing and trim that is without buckling and tool marks and that is true to line and levels indicated, with exposed edges folded back to form hems. Install sheet metal flashing and trim to fit substrates and to result in waterproof performance.
   2. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at a maximum of 10 feet (3 m) with no joints allowed within 24 inches (605 mm) of corner or intersection. Where lapped expansion provisions cannot be used or would not be sufficiently waterproof, form expansion joints of intermeshing hooked flanges, not less than 1 inch (25 mm) deep, filled with mastic sealant (concealed within joints).

3.3 ERECTION TOLERANCES

A. Installation Tolerances: Shim and align metal composite material wall panel units within installed tolerance of 1/4 inch in 20 feet (6 mm in 6 m), nonaccumulative, on level, plumb, and location lines as indicated, and within 1/8 inch (3 mm) offset of adjoining faces and of alignment of matching profiles.

3.4 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified independent testing agency to perform field tests and inspections.

B. Water Spray Test: After installation, test area of assembly directed by Architect for water penetration according to AAMA 501.2.

C. Manufacturer Field Service: Engage a factory authorized service representative to test and inspect completed metal composite material wall panel installation, including accessories.

D. Metal composite material wall panels are considered defective if they do not pass test and inspections.

E. Additional tests and inspections, at Contractor's expense, are performed to determine compliance of replaced or additional work with specified requirements.

F. Prepare test and inspection reports.

3.5 CLEANING AND PROTECTION

A. Remove temporary protective coverings and strippable films as metal composite material panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal composite material panel installation, clean finished surfaces as recommended by metal composite material panel manufacturer. Maintain in a clean condition during construction.

B. After metal composite material panel installation, clear weep holes and drainage channels of obstructions, dirt, and sealant.

C. Replace metal composite material panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 07 42 13

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SECTION 10 73 13 - ALUMINUM CANOPY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes: Requirements including but not limited to
   1. Fixed canopy.
   2. Accessories necessary for a complete application.

1.3 PERFORMANCE REQUIREMENTS

A. Delegated Design: Design supports, including comprehensive engineering analysis by a qualified professional engineer licensed in the State of Texas, using performance requirements and design criteria indicated.

B. System Performance: Provide canopy system that has been designed, produced, fabricated and installed to withstand normal temperature changes as well as live loading, dead loading and wind loading in compliance with building code requirements:
   1. Live Load: 20 psf minimum.
   2. Structural Design for Wind Forces: Comply with ANSI A58.1.
   3. Base Mean Wind Velocity: 120 mph, Exposure Classification C.
   4. Importance Factor: 1.0.
   5. Stability Criteria: Comply with applicable building codes.
   6. Design structural members to meet minimum deflection criteria of L/180.
   7. Design footings for maximum bearing pressure of 1,500 psf.

C. Provide structure capable of sustaining severe icing, hail, hurricane force winds and supporting concentrated load such as being walked upon.

D. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.
   1. Temperature Change: 120 degrees F (67 degrees C), ambient; 180 degrees F (100 degrees C), material surfaces.

1.4 SUBMITTALS

A. Product Data: Submit manufacturer's product data, specifications, component performance data and installation instructions.

B. Shop Drawings: Submit detailed drawings, layout of canopy system, bent locations, mechanical joint locations with complete details, connections, jointing and accessories. Include details of tube anchorage.

C. Samples: Color charts showing full range of colors.

D. Delegated Design Submittal: For installed products indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible in the jurisdiction of the project, for their preparation.

1.5 QUALITY ASSURANCE

A. Regulatory Requirements:
   1. Building Code: International Building Code.
   2. AWS (American Welding Society) standards for structural aluminum welding.

B. Installer Qualification: Firm with not less than 5 years experience in installation of aluminum sunshades of type, quantity and installation methods similar to work of this section.

C. Source Limitations: Obtain aluminum covered walkway system from single source.

D. Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication where possible, to insure proper fitting of work.

E. Allow for adjustments within specified tolerations wherever taking of field measurements before fabrication might delay work.

F. Shop Assembly: Preassemble units in shop to greatest extent possible and disassemble as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation.

G. Coordination: Coordinate work of this section with work of other sections which interface with sunshade system (building structure, building finishes, etc.).

1.6 CONTRACTOR'S RESPONSIBILITIES

A. As scope and performance documents, the Drawings and Specifications do not necessarily indicate or describe all Work required for the performance and completion of the Work. Contracts will be let on the basis of such documents with the understanding that the Provide the items required for proper completion of the Work without adjustment to price or schedule. Work shall be of sound, quality construction and the Contractor shall be solely responsible for the inclusions of adequate labor and materials to cover the proper and timely fabrication and installation of the aluminum walkway cover indicated, described, or implied.

B. As a performance specification, the criteria for the solution of structurally sound aluminum walkway cover indicated on the Drawings or specified herein are the sole purpose of defining the design intent and performance requirements. The details shown are intended to emphasize the acceptable profiles and performance requirements for this Project. To avoid any misunderstanding or lack of interpretation, the Contractor is hereby advised that the responsibility for the aluminum walkway cover is totally his and that designs and resolutions proposed in the Contractor's shop drawings, structural calculations, and related documentation shall be demonstrated throughout the Work and warranty period specified or required.

C. Design proposal submissions which follow exactly the details indicated on the Drawings for the aluminum walkway cover, will not relieve the Contractor of his responsibility for the design, fabrication, erection, or performance of the Work of this Section.

D. In the event of a controversy over the design, the decision of the Architect will take precedence.

1.7 DELIVERY, STORAGE AND HANDLING

A. Deliver, store and handle sunshade system components as recommended by manufacturer. Handle and store in a manner to avoid deforming members and to avoid excessive stresses.

1.8 WARRANTY

A. Written warranty signed by manufacturer, Installer, and Contractor in which manufacturer agrees to repair or replace covered walkway assembly and its components that fail in materials or workmanship within specified warranty period.
   1. Defects shall include, but not be limited to:
      a. Loose or missing parts.
      b. Delamination or deterioration of finish.
      c. Scratched, dented, and damaged surfaces.

   2. Warranty Period: One (1) year from date of Substantial Completion.

B. Finish Warranty: Written warranty signed by manufacturer in which manufacturer agrees to repair or replace components on which finishes does not comply with requirements or that fail in materials or workmanship within specified warranty period. Warranty does not include normal weathering.
   1. Warranty Period: Five (5) years from date of Substantial Completion. **(For Powder Coated Finish).**

PART 2 - PRODUCTS

2.1 MATERIALS

A. Basis of Design Manufacturer: AVAdek, Inc.: Other manufacturers are subject to compliance with requirements:
   1. Canopy-Solutions; (713) 510-3800.
   2. East Texas Canopy.; (903) 839-2091.
   3. Childers Carports & Structures, Inc.
   4. Mapes Industries, Inc. Lincoln, NE; (800) 228-2391.
   5. Peachtree Protective Covers, Inc. (770) 439-2120.
   6. Jones Aluminum Inc. (409) 866-5585
   7. Dittmer Architectural Aluminum, Winter Springs, FL
   8. Perfection Architectural Systems, Inc., an Avadek Company, Orlando, FL
   9. Superior Metal Products Co., Birmingham, AL
   10. Texas Aluminum Industries, Inc., a Metal USA Company; Houston, TX

B. Aluminum Extrusion: ASTM B221 alloy 6063 heat treated to T-6 temper.

C. Aluminum Sheet: ASTM B209, minimum 0.032 inch thickness.

D. Finish: Satin anodize 204-R1 meeting Aluminum Association Specification AA-M-10C-22A-21.

E. Structure shall be designed by the manufacturer to withstand walking on top, heavy hail, and winds in the configurations shown on drawings.

F. Fasteners:
   1. Deck Screws: Type 18-8 non-magnetic stainless steel sealed with a neoprene "O" ring beneath 5/8 inch (7 mm) outside dimension, conical washer. Rivets are not permitted.

2. Fascia Rivets: Size 3/16 inch by 1/2 inch (4 mm by 13 mm) grip range aluminum rivets with aluminum mandrel.
3. Bolts, Nuts, and Washers: 18-8 non-magnetic stainless steel.
4. Tek Screws: Not permitted.

G. Beam/Deck connection flashing (Bird cover): .080" thick metal flashing at all beams.

H. Color: Custom color. Refer to elevations for color and material selection

I. Soffit: Provide flush panel soffit with concealed fasteners from manufacturers complete product line.

J. Provide concealed drainage from deck into columns.

K. Roof Deck: Shall be of size and depth recommended by the manufacturer to suit application, intended use, requirements of building code authorities having jurisdiction.

L. Expansion Joints: Expansion joints shall have no metal to metal contact.

M. Horizontal U-Beams and vertical tube columns shall be sizes recommended by the manufacturer to suit application, intended use, and requirements of building code authorities having jurisdiction, and shall be attached with concealed fasteners.

2.2 FABRICATION

A. Comply with indicated profiles, dimensioned requirements, and structural requirements. Provide minimum 6 inch by 10 inch (150 mm by 250 mm) structural bents. Provide fascia as indicated.

B. Use sections true to details with clean, straight, sharply defined profiles and smooth surfaces of uniform color and texture, free from defects impairing strength and durability.

C. Mechanical Joints: Consisting of stainless steel bolts with minimum of 2 bolts per fastening. Install bolts and nuts concealed utilizing 1/2 inch thick by 1-1/2 inch (13 mm by 44 mm) aluminum bolt bars welded to structural members.

D. Detail mechanical joints on shop drawings showing each location.

E. Roof Deck: Extruded aluminum shapes, interlocking self flashing sections. Shop fabricate to lengths and panels widths required for field assembly. Depth of sections to comply with structural requirements. Provide shop induced camber in deck units with spans greater than 16 feet to offset dead load deflections. Use welded dams at non-draining ends of deck.

F. Expansion joints, design structure for thermal expansion and contraction. Provide expansion joints as required.

G. Provide exposed rivets for fastening bottom of fascia to deck to match fascia finish.

H. Apply shop applied dip coat of clear acrylic enamel to each column end terminating in concrete to insulate from electrolytic reaction. Pierce column ends to "key" grout to bent for maximum uplift protection.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions for compliance with requirements for supporting members, blocking, inserts, installation tolerances, and other conditions affecting performance of the work.

B. Confirm locations, dimensions and elevations shown on shop drawings prior to fabrication.

C. Proceed with installation after correcting unsatisfactory conditions.

3.2 INSTALLATION

A. Erection: Set aluminum canopy support tube frames onto steel channels projecting from bidding structure; set to required elevations, align, plumb and level; secure tube frame to structural channels. Comply with manufacturer's instructions.

B. Erection: Set roof support frames (bents) into pockets provided in top of footings; set to required elevations, align, plumb and level; and grout in place with 2,000 psi. portland cement grout. Ensure grout fills voids and keys to columns. Fill downspout units with grout to bottom of discharge level. Install aluminum deflectors after grouting. Match to finish and elevation of adjacent sidewalks.

C. Install roof deck sections, accessories, and related flashing in accordance with manufacturer's instructions. Provide roof slope for rain drainage without ponding water. Align and anchor roof deck units to structural support frames.

3.3 FLASHING

A. Flashings: Flashings required between covered walkway system and adjoining structures are not work of this section. Refer to 07 62 00.

3.4 CLEANING AND PROTECTION

A. Damaged Units: Replace roof deck panels and other components of the work that have been damaged or have deteriorated beyond successful minor repair.

B. Cleaning: Remove protective coverings at time in project construction sequence that provide greatest protection of work. Clean finished surfaces to comply with recommendations of manufacturer.

C. Protection: Protect completed work ensuring walkway cover will be without damage or deterioration at time of Substantial Completion.

END OF SECTION 10 73 13

SECTION 13 34 19 - METAL BUILDING SYSTEMS

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Manufacturer-engineered, shop-fabricated structural steel building frame.
B. Metal wall and roof panels including gutters and downspouts.
C. Exterior doors, windows, skylights, overhead doors, and louvers.

1.2 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene one week before starting work of this section.

1.3 SUBMITTALS

A. See Section 01 33 00 - Submittal Procedures, for submittal procedures.
B. Product Data: Provide data on profiles, component dimensions, fasteners.
C. Shop Drawings: Indicate assembly dimensions, locations of structural members, connections; wall and roof system dimensions, panel layout, general construction details, anchors and methods of anchorage, and installation; framing anchor bolt settings, sizes, locations from datum, and foundation loads; indicate welded connections with AWS A2.4 welding symbols; indicate net weld lengths; provide professional seal and signature.
D. Color Chart: Submit printed color chart with full range of available standard color
E. Samples: Submit two samples of precoated metal panels for each color selected, 2 by 2 inch in size illustrating color and texture of finish.
F. Manufacturer's Instructions: Indicate preparation requirements, anchor bolt placement, and other erection instructions.
G. Erection Drawings: Indicate members by label, assembly sequence, and temporary erection bracing.
H. Designer's Qualification Statement.
I. Manufacturer's Qualification Statement: Provide documentation showing metal building manufacturer is accredited under IAS AC472.
    1. Include statement that manufacturer designs and fabricates metal building system as integrated components and assemblies, including but not limited to primary structural members, secondary members, joints, roof, and wall cladding components specifically designed to support and transfer loads and properly assembled components form a complete or partial building shell.
J. Erector's Qualification Statement.
K. Welders’ Qualification Statement: Welders’ certificates in accordance with AWS B2.1/B2.1M and dated no more than 12 months before start of scheduled welding work.
L. Project Record Documents: Record actual locations of concealed components and utilities.

1.4 QUALITY ASSURANCE

A. Designer Qualifications: Design structural components, develop shop drawings, and perform shop and site work under direct supervision of a Professional Structural Engineer experienced in design of this type of work.
    1. Design Engineer Qualifications: Licensed in the State in which the Project is located.
    2. Comply with applicable code for submission of design calculations and reviewed shop and erection drawings as required for acquiring permits.

3. Cooperate with regulatory agency or authorities having jurisdiction (AHJ), and provide data as requested.

B. Perform work in accordance with AISC 360 or MBMA (MBSM).
   1. Maintain one copy on site.

C. Manufacturer Qualifications: Company specializing in the manufacture of products similar to those required for this project.
   1. Not less than three years of documented experience.
   2. Accredited by IAS in accordance with IAS AC472.

D. Erector Qualifications: Company specializing in performing the work of this section with minimum 3 years experience or listed by manufacturer.

E. Welder Qualifications: Welding processes and welding operators qualified in accordance with AWS D1.1/D1.1M and no more than 12 months before start of scheduled welding work.

1.5 WARRANTY

A. See Section 01 78 39 - Project Record Document, for additional warranty requirements.
B. Correct defective Work within a five year period after Date of Substantial Completion.
C. Provide five year manufacturer warranty for entire building excluding masonry veneer.
   1. Include coverage for exterior pre-finished surfaces to cover pre-finished color coat against chipping, cracking or crazing, blistering, peeling, chalking, or fading. Include coverage for weather tightness of building enclosure elements after installation.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Metal Buildings Systems:
   1. D&M Metal Works: www.dandmmetalworks.com.
   2. Mueller Metal Buildings: www.dandmmetalworks.com.
   3. Butler Manufacturing Company: www.butlermfg.com.
   4. Ceco Building Systems: www.cecobuildings.com.
   5. Chief Buildings: www.chiefbuildings.com.
   6. Kirby Building Systems: www.kirbybuildingsystems.com.
   7. Metallic Building Systems: www.metallic.com.
   8. Nucor Building Systems: www.nucorbuildingsystems.com.
   9. VP Buildings: www.vp.com.
   10. Red Dot Builders: www.reddotbuilders.com

2.2 ASSEMBLIES

A. Single span rigid frame.
B. Primary Framing: Rigid frame of rafter beams and columns, canopy beams, braced end frames, and end wall columns, and wind bracing.
C. Secondary Framing: Purlins, Girts, Flange bracing, and Clips, and other items required for a compete building.
D. Wall System: Preformed metal panels of vertical profile, with sub-girt framing/anchorage assembly, and accessory components.
E. Roof System: Preformed metal panels oriented parallel to slope, with sub-girt framing/anchorage assembly, insulation, and liner panels, and accessory components.
F. Roof Slope: 4 inches in 12 inches.

2.3 PERFORMANCE REQUIREMENTS

A. Installed Thermal Resistance of Roof System: R-value as shown on drawings.

B. Design all structural members to withstand dead loads, live loads, snow loads, and wind loads due to pressure and suction of wind calculated in accordance with the applicable codes and with all applicable load combinations consistent with either ASD or LRFD design methodologies. Minimum live load for roof shall be 20 psf. Minimum ground snow load shall be 5psf (PEMB Designer to apply all applicable factors to load based on building geometry, thermal factors, importance, etc., and Importance Factor III). Min wind loads shall be determined by PEMB Designer in accordance with all applicable code required factors based on building geometry, building elevations, roof pitch, etc. utilizing a minimum wind speed of 112mph 3-second gust with an Importance Factor of III).
C. Design structural members to withstand Class 30 wind uplift in accordance with UL 580.
D. Exterior wall and roof system shall withstand imposed loads with maximum allowable deflection of 1/90 of span for walls and 1/180 for roofs.
E. Provide drainage to exterior for water entering or condensation occurring within wall or roof system.
F. Permit movement of components without buckling, failure of joint seals, undue stress on fasteners or other detrimental effects, when subject to temperature range of 200 degrees F.
G. Size and fabricate wall and roof systems free of distortion or defects detrimental to appearance or performance.

2.4 MATERIALS - FRAMING

A. Structural Steel Members: ASTM A36/A36M.
B. Structural Tubing: ASTM A500/A500M Grade B cold-formed.
C. Plate or Bar Stock: ASTM A529/A529M, Grade 50.
D. Anchor Bolts: ASTM A307, Grade A, with no preference for protective coatings.
E. Anchor Bolts: ASTM F1554, Grade 36, Class 1A, with no preference for protective coating.
F. Bolts, Nuts, and Washers: ASTM F3125/F3125M, Type 1; galvanized to ASTM A153/A153M.
G. Welding Materials: Perform in accordance with AWS D1.1/D1.1M.
H. Primer: SSPC-Paint 20 zinc rich.
I. Grout: ASTM C1107/C1107M; Non-shrink; premixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing agents.
    1. Minimum Compressive Strength at 48 Hours: 2,000 pounds per square inch.
    2. Minimum Compressive Strength at 28 Days: 7,000 pounds per square inch.
    3. Height Change, Plastic State: When tested in accordance with ASTM C827/C827M:
        a. Maximum: Plus 4 percent.
        b. Minimum: Plus 1 percent.

2.5 MATERIALS - WALLS AND ROOF

A. Steel Sheet: Hot-dipped galvanized steel sheet, ASTM A653/A653M, Designation SS (structural steel), Grade 33 (230), with G90/Z275 coating.
B. Steel Sheet: ASTM A792/A792M aluminum-zinc alloy coated to AZ50/AZM150.
C. Insulation: Semi-rigid glass fiber type, unfaced, ASTM E84 Class A, flame spread index of 25 or less where exposed, friction fit, _____inches thick. Refer to specification 07 21 30 Pre-Engineered Building Insulation
D. Insulation: ASTM C665 Type I; _____inches thick.
    1. Facing: Sheet vinyl, _____inch thick, white.
    2. Refer to specification 07 21 30 Pre-Engineered Building Insulation
E. Metal Building Type, Factory Applied, Vapor-Barrier Insulation Facings: Water vapor permeance no greater than 0.10 perm when tested in accordance with ASTM E96/E96M; flame

spread index of 25 or less, and smoke developed index of 40 or less when tested in accordance with ASTM E84.

1. Manufacturers:
   a. Lamtec Corporation; WMP-RETRO: www.lamtec.com/#sle.
   b. Substitutions: See Section 01 60 00 - Product Requirements.

F. Joint Seal Gaskets: Manufacturer's standard type.
G. Fasteners: Manufacturer's standard type, galvanized to comply with requirements of ASTM A153/A153M, finish to match adjacent surfaces when exterior exposed.
H. Bituminous Paint: Asphaltic type.
I. Sealant: Manufacturer's standard type.
J. Sealant: ASTM C920, elastomeric sealant with movement capability of at least plus/minus 50 percent; 100 percent silicone; for exposed applications, match adjacent colors as closely as possible.
K. Metal Mesh: Galvanized steel wire, woven.
L. Roof Curbs: Insulated metal same as roofing, _____inch thick, designed for imposed equipment loads, anchor fasteners to equipment, counterflashed to metal roof system.
M. Trim, Closure Pieces, Caps, Flashings, Gutters, Downspouts, Rain Water Diverter, Fascias, and Infills: Same material, thickness and finish as exterior sheets; brake formed to required profiles.

2.6 COMPONENTS

A. Doors and Frames: Manufacturer's standard.
B. Ventilators: Low profile ridge vent.

2.7 FABRICATION - FRAMING

A. Fabricate members in accordance with AISC 360 for plate, bar, tube, or rolled structural shapes.
B. Anchor Bolts: Formed with bent shank, assembled with template for casting into concrete.
C. Provide framing for ventilator and other openings.
D. Provide wall opening framing for doors, windows, and other accessory components.

2.8 FABRICATION - WALL AND ROOF PANELS

A. Siding: Minimum _____inch metal thickness, _____profile indicated, _____inch deep, lapped edges fitted with continuous gaskets. Refer to specification section 07 42 13 Metal Wall and Soffit Panels

B. Roofing: Minimum ___inch metal thickness, _____profile, lapped edges fitted with continuous gaskets. Refer to specification section 07 41 13 Pre Finished Metal Roofing

C. Liner: Minimum _____inch metal thickness, flat profile indicated, lapped V edges fitted with continuous gaskets. Refer to specification section 07 21 30 Pre Engineered Building Insulation.

D. Soffit Panels: Minimum _____inch metal thickness, flat profile indicated, perforated for ventilation. Refer to specification section 07 42 13 Metal Wall and Soffit Panels

E. Girts/Purlins: Rolled formed structural shape to receive siding, roofing and liner sheet.
F. Internal and External Corners: Same material thickness and finish as adjacent material, profile brake formed or shop cut and factory mitered to required angles. Back brace mitered internal corners with _____inch thick sheet.
G. Flashings, Closure Pieces, Fascia: Same material and finish as adjacent material, profile to suit system or formed as detailed.

H. Fasteners: To maintain load requirements and weather tight installation, same finish as cladding, non-corrosive type or finish.

2.9 FABRICATION - GUTTERS AND DOWNSPOUTS

A. Fabricate of same material and finish as roofing metal.
B. Form gutters and downspouts of square profile and size to collect and remove water. Fabricate with connection pieces.
C. Form sections in maximum possible lengths. Hem exposed edges. Allow for expansion at joints.
D. Fabricate support straps of same material and finish as roofing metal, color as selected.

2.10 FINISHES

A. Framing Members: Clean, prepare, and shop prime. Do not prime surfaces to be field welded.
B. Exterior Surfaces of Wall or Roof Components and Accessories: Precoated enamel on steel as selected from manufacturer's standard range.
C. Interior Surfaces of Wall or Roof Components and Accessories: Precoated enamel on steel as selected from manufacturer's standard range.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that foundation, floor slab, mechanical and electrical utilities, and placed anchors are in correct position

3.2 ERECTION - FRAMING

A. Erect framing in accordance with AISC 360.
B. Provide for erection and wind loads. Provide temporary bracing to maintain structure plumb and in alignment until completion of erection and installation of permanent bracing.
C. Set column base plates with non-shrink grout to achieve full plate bearing.
D. Do not field cut or alter structural members without approval.
E. After erection, prime welds, abrasions, and surfaces.

3.3 ERECTION - WALL AND ROOF PANELS

A. Install in accordance with manufacturer's instructions.
B. Exercise care when cutting prefinished material to ensure cuttings do not remain on finish surface.
C. Fasten cladding system to structural supports, aligned level and plumb.
D. Locate end laps over supports. End laps minimum 2 inches. Place side laps over bearing.
E. Provide expansion joints where indicated.
F. Use concealed or exposed fasteners.
G. Install insulation.
H. Install sealant and gaskets, providing weather tight installation.

3.4 ERECTION - GUTTERS AND DOWNSPOUTS

A. Rigidly support and secure components. Join lengths with formed seams sealed watertight. Flash and seal gutters to downspouts.
B. Apply bituminous paint on surfaces in contact with cementitious materials.
C. Slope gutters minimum _____inch/ft.

D. Install splash blocks under each downspout.

3.5 INSTALLATION - ACCESSORY COMPONENTS IN WALL SYSTEM

A. Install door frames, doors, and overhead doors in accordance with manufacturer's instructions.

3.6 TOLERANCES

A. Framing Members: 1/4 inch from level; 1/8 inch from plumb.
B. Siding and Roofing: 1/8 inch from true position.

END OF SECTION 13 34 19

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SECTION 41 22 23.19 - MONORAIL HOISTS

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Monorail.
   2. Electric chain hoist and motorized trolley.
   3. Accessories as required for a complete installation.

B. Related Sections:
   1. Section 05 50 00 - Metal Fabrications: Miscellaneous steel.

1.2 REFERENCE STANDARDS

A. 29 CFR 1910.179 - Overhead and Gantry Cranes; Current.

B. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

C. SSPC-PA 1 - Shop, Field, and Maintenance Coating of Metals; 2024.

1.3 SUBMITTALS

A. Shop Drawings: Include details of fabrication and erection, and wiring diagrams for all equipment including the electrical control system.

B. Product Data: Include installation and maintenance instructions. Include drawings of the system and catalogues fully describing all components.

1.4 QUALITY ASSURANCE

A. Regulatory Requirements:
   1. Comply with 29 CFR 1910.179.

1.5 DELIVERY, STORAGE AND HANDLING

A. Refer to Section 01 74 19 - Construction Waste Management and Disposal for packaging waste requirements.

B. Deliver products in manufacturer's original, unopened, undamaged containers with identification labels intact.
   1. Package for protection against transportation damage.
   2. Provide markings to identify components consistently with drawings.

C. Store products protected from exposure to harmful weather conditions and at temperature conditions recommended by manufacturer.
   1. Store in well-ventilated space out of direct sunlight.
   2. Protect from moisture and condensation.
   3. Avoid contact with other materials that might cause staining, denting, or other surface damage.

D. To the greatest extent practicable, Ship products in an assembled state. Package and label loose components to facilitate field assembly.

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. Acco Wright: www.accoweight.com.
   2. Columbus McKinnon: www.cmco.com.
   3. Demag Cranes & Components GmbH: www.demagcranes.com.
   4. Harrington Hoists, Inc: www.harringtonhoists.com.
   5. Yale Hoists: www.yalehoists.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 HOIST SYSTEM

A. Motorized Trolley Electric Chain Hoist:
   1. Basis of Design Product:
      a. Model ED-1000V-15 manufactured by Harrington Hoists, Inc.
   2. Load Capacity: 1050 lb.
   3. Lifting Length: 15 ft.
   4. Trolley Traversing Speed: 40 feet (12 m) per minute.
   5. Hoist: Trolley-mounted, IP55 rated, Certified and Listed to UL 1340.
   6. Hoist Lifting Speed: 8 fpm - 22 fpm.
   7. Hoist Lifting Motor: 120V, 1 phase, 60 Hz.
   8. Limit Switches: Upper and lower.
   9. Duty cycle: 40 minutes or better.
   10. Contactors: Mechanically interlocked heavy duty type.
   11. Clutch: Friction type.
   12. Load Chain: Grade 80, plated for corrosion resistance.
   13. Chain Fall: Single, with canvas chain container.
   14. Location: As indicated on Drawings.

2.3 MONORAIL SYSTEM

A. General: Monorail shall be compatible with hoist and trolley system and designed for indicated hoist capacity plus a suitable safety factor. Include all rail and power suspension components, fasteners, and end caps to provide a complete working system.
   1. Monorail Length: As indicated on Drawings, or if not indicated, as directed by the Architect.
   2. Monorail Support Structure: As indicated on Drawings.

2.4 CONTROLS

A. Controls for the trolley movement shall be combined in a 2 push button control station, pendant-mounted from the hoist control cabinet. The position of push button station shall be 42 inches (1,067 mm) maximum above the floor.

B. Control contactors shall be sized as required to suit applicable hoist service. Electric current at the push button station shall not exceed 120 volts.

2.5 HOIST WIRING

A. Hoist wiring shall be in accordance with NFPA 70, Article 610.

B. Wiring shall be in rigid steel conduit or steel wireway, except short connections where switches or other equipment may require shifting for adjustments. Conduit shall terminate in electrical equipment boxes or threaded hub conduit fittings. Conduit fittings shall be tapped for and equipped with screw-head covers.
   1. Hoist power cable shall be suspended parallel to monorail and travel smoothly during hoist travel.

C. Where wireway or conduit runs are parallel to resistor cabinets, a minimum space of 1 inch (25 mm) shall be kept between the cabinet and the wireway or conduit.

D. Wiring shall test free from short circuits and grounds. The insulation resistance between conductors and ground shall not be less than one mega ohm.

E. Place motor and control wiring in separate conduits.

F. Power and control cable shall originate and end at numbered terminal block in steel junction boxes.

G. Conductors: Flame-retardant, moisture-resistant flexible cable.

2.6 LUBRICATION

A. Every part subject to movement friction shall be prelubricated or otherwise lubricated with oil or grease. Points of lubrication shall be readily accessible.

2.7 PAINTING

A. Thoroughly clean monorail, track, trolley and hoist system to remove mill scale, rust, and other foreign matter. Apply a shop coat of primer and one finish coat of paint to unfinished exposed metal surfaces as recommended by the manufacturer.

2.8 ACCESSIBILITY

A. Arrange hoist parts for convenient operation, inspection, repairs, and ease of replacement.

2.9 SAFETY DEVICES

A. Equip hoist system components with safety devices as required by governing ordinances and authorities having jurisdiction.

B. Permanently mount rated capacity plates on both sides of the hoist girder indicating the hoist capacity in terms of tons.

PART 3 EXECUTION

3.1 INSTALLATION

A. Install hoist system in accordance with manufacturer's printed instructions and final shop drawings. Adjust and lubricate for smooth and easy operation.

B. Do not drill, cut or modify supporting structure without prior approval of the Structural Engineer.

C. Connect equipment to utilities.

3.2 FIELD QUALITY CONTROL

A. Testing of Installed System: Following installation, engage manufacturer's authorized representative to inspect and test hoist system to ensure that structural, mechanical and electrical components of hoist system have been installed in safe, serviceable condition and function according to manufacturers' specifications. Notify the Owner and the Architect not less than 7 days in advance of scheduled testing procedures.

B. Test hoists for capacity, speed, and deflection at 125 percent of the rated hoist load at various points along the trolley rail.

C. Provide access to hoist components containing electrical or moving mechanical parts to facilitate the Owner's and Architect's inspection thereof.

3.3 ADJUSTING AND CLEANING

A. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas. Paint uncoated and abraded areas with the same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces. Apply by brush or spray to provide a minimum 2 mil (0.051 mm) dry film thickness.

B. Adjust all moving components for smooth operation.

END OF SECTION 41 22 23.19

DRAWING LEGEND

Δ	ISSUED FOR INFORMATION / REVIEW / COORDINATION - NFC
▲	90% DD
●	50% CD
■	75% CD
□	ISSUED FOR PERMIT
◆	ISSUED FOR BID
—	REMOVED FROM CONTRACT DOCUMENTS

* INDICATES RENAMING OF SHEET FROM PREVIOUS ISSUES

SHEET NUMBER	SHEET NAME	A 06/12/2026	B 90% DD	C 50%CD	D 75%CD	E ISSUED FOR PERMIT 10/22/2026	F BID SET 10/29/2026	G ADDENDUM 1 11/06/2026
GENERAL								
G0.00	COVER SHEET	Δ		●	■	□	◆	
G0.01	SHEET INDEX	Δ		●	■	□	◆	
G0.02	GENERAL PROJECT INFORMATION			●	■	□	◆	
G0.10	PROJECT DATA, CODE REVIEW, LEVEL 1 EGRESS			●	■	□	◆	
G0.15	ACCESSIBILITY STANDARD GUIDELINES			●	■	□	◆	
G0.16	ACCESSIBILITY MOUNTING HEIGHTS GUIDELINES			●	■	□	◆	1
G0.51	SIGNAGE GRAPHIC STANDARDS			●	■	□	◆	
G0.17	RESTROOM ACCESSORIES AND TYPES			●	■	□	◆	
CIVIL								
C001	NOTES, INDEX AND LEGEND				■	□	◆	
C002.1	SURVEY (FOR INFORMATION ONLY)				■	□	◆	
C002.2	SURVEY (FOR INFORMATION ONLY)				■	□	◆	
C002.3	SURVEY (FOR INFORMATION ONLY)				■	□	◆	
C002.4	SURVEY (FOR INFORMATION ONLY)				■	□	◆	
C002.5	SURVEY (FOR INFORMATION ONLY)				■	□	◆	
C002.6	SURVEY (FOR INFORMATION ONLY)				■	□	◆	
C002.7	SURVEY (FOR INFORMATION ONLY)				■	□	◆	
C003	DEMOLITION PLAN				■	□	◆	
C100	OVERALL SITE PLAN				■	□	◆	
C101	SITE PLAN				■	□	◆	
C102	DIMENSIONAL CONTROL PLAN				■	□	◆	
C103	FIRE APPARATUS PLAN				■	□	◆	
C201	UTILITY PLAN				■	□	◆	
C301	DRAINAGE PLAN				■	□	◆	
C302	DETENTION PLAN							
C401	GRADING AND PAVING PLAN				■	□	◆	
C402	GRADING AND PAVING PLAN				■	□	◆	
C501	EROSION CONTROL PLAN				■	□	◆	
C502	EROSION CONTROL DETAILS						◆	
C601	DETAILS				■	□	◆	
C602	DETAILS				■	□	◆	
C603	DETAILS				■	□	◆	
CA 101	ATHLETIC SITE PLAN				■	□	◆	
CA 102	ATHLETIC DRAINAGE PLAN				■	□	◆	
CA 103	ATHLETIC SUBGRADE GRADING PLAN				■	□	◆	
CA 104	ATHLETIC STONE GRADING PLAN				■	□	◆	
CA 105	ATHLETIC DETAILS				■	□	◆	
AC 002.1	SURVEY (FOR INFORMATION ONLY)			●				
AC 002.2	SURVEY (FOR INFORMATION ONLY)			●				
AC 002.3	SURVEY (FOR INFORMATION ONLY)			●				
AC 002.4	SURVEY (FOR INFORMATION ONLY)			●				
AC 002.5	SURVEY (FOR INFORMATION ONLY)			●				
AC 002.6	SURVEY (FOR INFORMATION ONLY)			●				
AC 002.7	SURVEY (FOR INFORMATION ONLY)			●				
AC 003	DEMOLITION PLAN			●				
AC 100	OVERALL SITE PLAN			●				
AC 101	THS CIVIL SITE PLAN	Δ	▲	●				
AC 102	DOMENSIONAL CONTROL PANEL			●				
AC 103	FIRE APPARATUS PLAN			●				
AC 201	UTILITY PLAN		▲	●				
AC 301	DRAINAGE PLAN			●				
AC 401	GRADING AND PAVING PLAN			●				
AC 402	GRADING AND PAVING PLAN			●				
AC 501	EROSION CONTROL PLAN			●				
AC 601	DETAILS			●				
AC 602	DETAILS			●				
AC 603	DETAILS			●				
AC A101	ATHLETIC SITE PLAN			●				
AC A102	ATHLETIC DRAINAGE PLAN			●				
AC A103	ATHLETIC DETAILS			●				
BC 001	NOTES, INDEX AND LEGEND			●				
BC 002	SURVEY (FOR INFORMATION ONLY)			●				
BC 003	SURVEY (FOR INFORMATION ONLY)			●				
BC 101	CIVIL SITE PLAN	Δ	▲	●				
BC 102	DIMENSIONAL CONTROL PLAN			●				
BC 103	FIRE APPARATUS PLAN			●				
BC 201	UTILITY PLAN		▲	●				
BC 202	UTILITY PLAN			●				
BC 301	DRAINAGE PLAN			●				
BC 401	GRADING AND PAVING PLAN			●				
BC 501	EROSION CONTROL PLAN			●				
BC 601	DETAILS			●				
BC 602	DETAILS			●				
BC 603	DETAILS			●				
BC A101	ATHLETIC SITE PLAN			●				
BC A102	ATHLETIC DRAINAGE PLAN			●				
BC A103	ATHLETIC DETAILS			●				
C-201	CIVIL ATHLETIC DETAILS	Δ	▲					
CC 001	NOTES, INDEX AND LEGEND			●				
CC 002	SURVEY (FOR INFORMATION ONLY)			●				
CC 003	DEMOLITION PLAN			●				
CC 101	SITE PLAN	Δ	▲	●				
CC 102	DIMENSIONAL CONTROL PLAN			●				
CC 103	FIRE APPARATUS PLAN			●				
CC 201	UTILITY PLAN		▲	●				
CC 202	UTILITY PLAN			●				
CC 301	DRAINAGE PLAN			●				
CC 401	GRADING AND PAVING PLAN			●				
CC 501	EROSION CONTROL PLAN			●				
CC 601	DETAILS			●				
CC 602	DETAILS			●				
CC 603	DETAILS			●				
CC A101	ATHLETIC DETAILS			●				
CC A102	ATHLETIC DRAINAGE PLAN			●				
CC A103	ATHLETIC DETAILS			●				
STRUCTURAL								
S-000	3D VIEW & SHEET LIST	Δ	▲	●	■	□	◆	
S-010	GENERAL NOTES	Δ	▲	●	■	□	◆	
S-011	GENERAL NOTES	Δ	▲	●	■	□	◆	
S-012	GENERAL NOTES	Δ	▲	●	■	□	◆	
S-013	GENERAL SUBGRADE NOTES AND TYP DETAILS	Δ	▲	●	■	□	◆	
S-101	COMPOSITE FOUNDATION PLAN	Δ	▲	●	■	□	◆	
S-101A	FOUNDATION PLAN - AREA A	Δ	▲	●	■	□	◆	
S-101B1	FOUNDATION PLAN - AREA B1	Δ	▲	●	■	□	◆	
S-101B2	FOUNDATION PLAN - AREA B2	Δ	▲	●	■	□	◆	
S-102	COMPOSITE SECOND FLOOR AND LOW ROOF FRAMING PLAN	Δ	▲	●	■	□	◆	
S-102A	SECOND FLOOR AND LOW ROOF FRAMING PLAN - AREA A	Δ	▲	●	■	□	◆	
S-102B1	LOW ROOF FRAMING PLAN - AREA B2	Δ	▲	●	■	□	◆	
S-102B2	LOW ROOF FRAMING PLAN - AREA B2	Δ	▲	●	■	□	◆	
S-103	INTERMEDIATE ROOF FRAMING PLAN - AREA A	Δ	▲	●	■	□	◆	
S-103A	MID ROOF FRAMING PLAN - AREA A	Δ	▲	●	■	□	◆	
S-103B2	MECANICAL ROOF FRAMMING PLAN - AREA B2	Δ	▲	●	■	□	◆	
S-104	COMPOSITE ROOF FRAMING PLAN	Δ	▲	●	■	□	◆	
S-104B1	HIGH ROOF FRAMING PLAN - AREA B1	Δ	▲	●	■	□	◆	
S-104B2	HIGH ROOF FRAMING PLAN - AREA B2	Δ	▲	●	■	□	◆	
S-300	GENERAL CONCRETE AND STL REINF NOTES AND TYP DETAILS	Δ	▲	●	■	□	◆	
S-301	GENERAL SLAB ON GRADE NOTES AND TYP DETAILS	Δ	▲	●	■	□	◆	
S-302	GENERAL GRADE BEAM NOTES AND TYP DETAILS	Δ	▲	●	■	□	◆	
S-303	GENERAL FOUNDATION NOTES AND TYP DETAILS	Δ	▲	●	■	□	◆	
S-304	GENERAL FOUNDATION NOTES AND TYP DETAILS				■	□	◆	
S-304 ACIP	GENERAL FOUNDATION NOTES AND TYP DETAILS	Δ	▲	●				
S-305	GENERAL FOUNDATION NOTES AND TYP DETAILS	Δ	▲	●	■	□	◆	
S-306	GENERAL FOUNDATION NOTES AND TYP DETAILS				●	■	□	◆
S-307	AUGER CAST PILE DETAILS					■	□	◆
S-307 ACIP	AUGER CAST PILE DETAILS				●			
S-308 ACIP	AUGER CAST PILE DETAILS				●			
S-310	FOUNDATION DETAILS	Δ	▲	●	■	□	◆	
S-311	FOUNDATION DETAILS	Δ	▲	●	■	□	◆	
S-312	FOUNDATION DETAILS (CMU)	Δ	▲	●	■	□	◆	
S-313	FOUNDATION DETAILS (CMU)	Δ	▲	●	■	□	◆	
S-320	SITE ITEMS FOUNDATION SECTIONS AND DETAILS	Δ	▲	●	■	□	◆	
S-400	GENERAL CMU NOTES AND TYP DETAILS	Δ	▲	●	■	□	◆	
S-401	GENERAL CMU NOTES AND TYP DETAILS	Δ	▲	●	■	□	◆	
S-402	MISC CMU DETAILS	Δ	▲	●	■	□	◆	
S-403	MISC CMU DETAILS	Δ	▲	●	■	□	◆	
S-500	GENERAL STEEL NOTES AND TYP DETAILS	Δ	▲	●	■	□	◆	
S-500MB	PEMS NOTES & DETAILS	Δ	▲	●	■	□	◆	
S-501	GENERAL STEEL NOTES AND TYP DETAILS	Δ	▲	●	■	□	◆	
S-502	GENERAL STEEL CONNECTION NOTES AND TYP DETAILS	Δ	▲	●	■	□	◆	
S-503	GENERAL COMPOSITE STEEL NOTES AND TYP DETAILS	Δ	▲	●	■	□	◆	
S-504	GENERAL COMPOSITE STEEL NOTES AND TYP DETAILS	Δ	▲	●	■	□	◆	
S-505	GENERAL COMPOSITE STEEL NOTES AND TYP DETAILS	Δ	▲	●	■	□	◆	
S-506	GENERAL STEEL NOTES AND TYP DETAILS	Δ	▲	●	■	□	◆	
S-507	GENERAL STEEL NOTES AND TYP DETAILS	Δ	▲	●	■	□	◆	
S-508	GENERAL STEEL NOTES AND TYP DETAILS	Δ	▲	●	■	□	◆	
S-509	GENERAL STEEL NOTES AND TYP DETAILS	Δ	▲	●	■	□	◆	
S-510	COMPOSITE FRAMING DETAILS		▲	●	■	□	◆	
S-511	COMPOSITE FRAMING DETAILS		▲	●	■	□	◆	
S-512	COMPOSITE FRAMING DETAILS (CMU)		▲	●	■	□	◆	
S-520	ROOF FRAMING DETAILS	Δ	▲	●	■	□	◆	
S-521	ROOF FRAMING DETAILS	Δ	▲	●	■	□	◆	
S-522	ROOF FRAMING DETAILS	Δ	▲	●	■	□	◆	
S-523	ROOF FRAMING DETAILS	Δ	▲	●	■	□	◆	
S-524	ROOF FRAMING DETAILS	Δ						
S-525	ROOF FRAMING DETAILS	Δ	▲	●	■	□	◆	
S-530	BUILDING SECTIONS	Δ	▲			□	◆	
S-531	BUIDING SECTIONS				■	□	◆	
S-600	TYPICAL WIND BRACING ELEVATIONS	Δ	▲	●	■	□	◆	
S-610	TYPICAL WIND BRACING ELEVATIONS	Δ	▲	●	■	□	◆	
S-700	TYPICAL LADDER DETAILS	Δ	▲	●	■	□	◆	
S-800	OPTIONAL WIDE FLANGE ALTERNATE SCHEDULE AND SUPPLEMENTAL NOTES						◆	
ARCHITECTURAL								
A-AS101	COMPOSITE - ARCHITECTURAL SITE PLAN				●	■	□	◆
A-AS102	ARCHITECTURAL SITE PLAN TOMBALL HIGH SCHOOL			▲	●	■	□	◆
AS711	ARCHITECTURAL SITE DETAILS				●			
B-AS101	COMPOSITE - ARCHITECTURAL SITE PLAN			▲	●			
B-AS102	ARCHITECTURAL SITE PLAN			▲	●			
C-AS101	COMPOSITE - ARCHITECTURAL SITE PLAN			▲	●			
C-AS102	ARCHITECTURAL SITE PLAN			▲	●			
A100	GRID GEOMETRY PLAN - OVERALL	Δ			●	■	□	◆
A101	LEVEL 1 SLAB PLAN - OVERALL	Δ	▲		●	■	□	◆
A101A	LEVEL 1 SLAB PLAN - AREA A	Δ	▲		●	■	□	◆
A101B	LEVEL 1 SLAB PLAN - AREA B	Δ	▲		●	■	□	◆
A110	LEVEL 1 FLOOR PLAN - OVERALL	Δ	▲		●	■	□	◆
A110A	LEVEL 1 FLOOR PLAN - AREA A	Δ	▲		●	■	□	◆ 1
A110B	LEVEL 1 FLOOR PLAN - AREA B	Δ	▲		●	■	□	◆ 1
A120	MEZZANINE FLOOR PLAN	Δ	▲		●	■	□	◆ 1
A201	LEVEL 1 REFLECTED CEILING PLAN - OVERALL	Δ	▲		●	■	□	◆
A201B	INDOOR PRACTICE FIELD REFLECTED CEILING PLAN - SECTOR B					●	■	□ ◆
A202B	INDOOR PRACTICE FIELD REFLECTED CEILING PLAN MEZZ. LEVEL- SECTOR B					●	■	□ ◆
A301	ROOF PLAN - OVERALL	Δ	▲		●	■	□	◆ 1
A301A	ENLARGED ROOF PLAN - AREA A				●	■	□	◆ 1
A301A.1	ENLARGED ROOF PLAN - AREA A-ENTRY CANOPY				●	■	□	◆
A301B	ENLARGED ROOF PLAN - AREA B				●	■	□	◆ 1
A301B1	ENLARGED ROOF PLAN - AREA B1	Δ	▲		●	■	□	◆
A322	ROOF DETAILS				●	■	□	◆ 1
A323	EXPANSION JOINT DETAILS							◆ 1
A401	ENLARGED FLOOR PLANS	Δ	▲		●	■	□	◆ 1
A402	ENLARGED FLOOR PLANS	Δ	▲		●	■		
A500	EXTERIOR ELEVATION - OVERALL	Δ	▲		●		□	◆ 1
A520	INTERIOR ELEVATIONS	Δ	▲		●	■	□	◆
A521	INTERIOR ELEVATIONS	Δ	▲		●	■	□	◆ 1
A522	INTERIOR ELEVATIONS	Δ	▲		●	■	□	◆ 1
A524	LEVEL 1 INTERIOR ELEVATIONS-AREA A&B	Δ	▲		●	■	□	◆
A525	LEVEL 1 INTERIOR ELEVATIONS AREA B	Δ	▲		●	■	□	◆ 1
A526	LEVEL 1 INTERIOR ELEVATIONS AREA A&B	Δ	▲		●	■	□	◆
A527	LEVEL 1 INTERIOR ELEVATIONS AREA A	Δ	▲		●	■	□	◆ 1
A601	BUILDING SECTIONS	Δ	▲		●	■	□	◆ 1
A610	WALL SECTIONS - AREA A				●	■	□	◆ 1
A611	WALL SECTIONS - AREA A				●	■	□	◆ 1
A612	WALL SECTIONS - AREA A	Δ	▲		●	■	□	◆
A620	WALL SECTIONS - AREA B				●	■	□	◆ 1
A633	STAIR PLAN AND DETAILS	Δ	▲		●	■	□	◆ 1
A701	PLAN DETAILS	Δ	▲		●	■	□	◆
A702	PLAN DETAILS	Δ	▲		●	■	□	◆
A711	WALL SECTION DETAILS	Δ	▲		●	■	□	◆
A712	WALL SECTION DETAILS				●	■	□	◆
A801	PARTITION TYPES	Δ	▲		●	■	□	◆
A802	LEVEL 1 FINISH FLOOR PLAN - OVERALL	Δ	▲		●	■	□	◆
A802.1	TURF LAYOUT-TOMBALL HIGH SCHOOL	Δ	▲		●	■	□	◆
A802.2	TURF LAYOUT-TOMBALL MEMORIAL HIGH SCHOOL	Δ	▲		●			
A802.3	TURF LAYOUT-TOMBALL WEST HIGH SCHOOL	Δ	▲		●			
A812	DOORS SCHEDULES & FRAME TYPES	Δ	▲		●	■	□	◆
A813	DOOR & GLAZING DETAILS	Δ	▲		●	■	□	◆
A816	CURTAINWALLS/STOREFRONT ELEVATONS	Δ	▲		●	■	□	◆
A818	LOUVER DETAILS						□	◆
A819	CEILING DETAILS	Δ	▲		●	■	□	◆
A841	ROOM FINISH SCHEDULE & TRANSITION DETAILS	Δ	▲		●	■	□	◆
A863	EXTERIOR SIGNAGE		▲		●	■	□	◆
MECHANICAL								
M-001	MECHANICAL GENERAL NOTES AND LEGENDS	Δ	▲		●	■	□	◆
M-101A	1ST FLOOR MECHANICAL PLAN- AREA A	Δ	▲		●	■	□	◆
M-101B	1ST FLOOR MECHANICAL PLAN - AREA B	Δ	▲		●	■	□	◆
M-201A	2ND FLOOR MECHANICAL PLAN-AREA A	Δ	▲		●	■	□	◆
M-201B	2ND FLOOR MECHANICAL PLAN-AREA B	Δ	▲		●	■	□	◆
M-301	ROOF PLAN - MECHANICAL	Δ	▲					
M-301 A	MECHANICAL ROOF PLAN -AREA A				●	■	□	◆
M-301 B	MECANICAL ROOF FRAMMING PLAN - AREA B					●	■	□ ◆
M-401	1ST LEVEL AREA B MECHANICAL FLOOR PLAN	Δ	▲		●	■	□	◆
M-402	MECHANICAL PIPING DIAGRAM		▲		●	■	□	◆
M-403	MECHANICAL PIPING DIAGRAM		▲		●			
M-404	MECHANICAL PIPING DIAGRAM		▲		●			
M-501	MECHANICAL SECTION VIEW	Δ	▲		●		□	◆
M-502	MECHANICAL SECTION VIEW	Δ	▲		●		□	◆
M-503	MECHANICAL SECTION VIEW						□	◆
M-601	MECHANICAL SCHEDULES	Δ	▲		●	■	□	◆
M-602	MECHANICAL SCHEDULES	Δ	▲		●	■	□	◆
M-701	MECHANICAL DETAILS		▲		●	■	□	◆
M-702	MECHANICAL DETAILS		▲		●	■	□	◆
M-703	MECHANICAL DETAILS				●	■	□	◆
M-704	MECHANICAL DETAILS						□	◆
ELECTRICAL								
E-000	ELECTRICAL SYMBOL LEGEND AND CONTACTOR SCHEDULE	Δ	▲		●		□	◆
A-ES-101	ELECTRICAL SITE PLAN -TOMBALL HS				●			
B-ES-102	ELECTRICAL SITE PLAN -TOMBALL MEMORIAL HS				●			
C-ES-103	ELECTRICAL SITE PLAN -TOMBALL WEST HS				●			
ES-101	ELECTRICAL SITE PLAN	Δ				■	□	◆
E-101A	1ST LEVEL POWER PLAN - AREA A	Δ	▲		●	■	□	◆
E-101B	1ST LEVEL POWER PLAN - AREA B	Δ	▲		●	■	□	◆
E-120 B	2ND LEVEL POWER PLAN - AREA B	Δ	▲		●	■	□	◆
E-201A	1ST FLOOR LIGHTING PLAN - AREA A	Δ	▲		●	■	□	◆
E-201B	1ST FLOOR LIGHTING PLAN - AREA B	Δ	▲		●	■	□	◆
E-220B	2ND LEVEL LIGHTING PLAN - COMPOSITE	Δ	▲		●	■	□	◆
E-301	ELECTRICAL ROOF PLAN	Δ	▲			■	□	◆
E-301A	ELECTRICAL ROOF PLAN -AREA A				●	■	□	◆
E-501	ELECTRICAL ONE-LINE DIAGRAM	Δ	▲		●	■	□	◆
E-502	ELECTRICAL RISER DIAGRAM	Δ	▲		●	■	□	◆
E-601	ELECTRICAL SYMBOL LEGEND AND CONTACTOR SCHEDULE	Δ	▲		●	■	□	◆
E-602	ELECTRICAL DETAILS	Δ	▲		●	■	□	◆
E-701	ELECTRICAL PANEL SCHEDULES	Δ	▲		●	■	□	◆
E-702	ELECTRICAL PANEL SCHEDULES	Δ	▲		●	■	□	◆
FIRE PROTECTION								
PF-000	FIRE PROTECTION COVER SHEET	Δ	▲		●	■	□	◆
PF-101	1ST FLOOR FIRE PROTECTION PLAN-COMPOSITE	Δ	▲		●	■	□	◆
PF-701	FIRE PROTECTION RISER DIAGRAMS		▲		●			
PLUMBING								
P-000	PLUMBING COVER SHEET	Δ	▲		●	■	□	◆
A-PS-101	PLUMBING SITE PLAN - TOMBALL HS				●			
B-PS-101	PLUMBING SITE PLAN - TOMBALL MEMORIAL HS				●			
C-PS-101	PLUMBING SITE PLAN - TOMBALL WEST HS							
PS-101	PLUMBING SITE PLAN	Δ	▲		●	■	□	◆
PU-101A	1ST LEVEL PLUMBING UNDERGROUND PLAN - AREA A	Δ	▲		●	■	□	◆
PU-101B	1ST LEVEL PLUMBING UNDERGROUND PLAN - AREA B	Δ	▲		●	■	□	◆
P-101A	1ST LEVEL PLUMBING PLAN - AREA A	Δ	▲		●	■	□	◆
P-101B	1ST LEVEL PLUMBING PLAN - AREA B	Δ	▲		●	■	□	◆
P-120B	MEZZANINE PLUMBING- AREA B	Δ	▲		●	■	□	◆
P-301	PLUMBING ROOF PLAN	Δ	▲		●	■	□	◆
P-401	PLUMBING ENLARGED PLAN	Δ	▲		●	■	□	◆
P-501	PLUMBING SCHEDULES	Δ	▲		●	■	□	◆
P-601	PLUMBING DETAILS	Δ	▲		●	■	□	◆
P-602	PLUMBING DETAILS	Δ	▲		●	■	□	◆
TECHNOLOGY								
T-000	TECHNOLOGY SYSTEM NOTES AND LEGENDS	Δ	▲		●	■	□	◆
TS-101	TECHNOLOGY SITE PLAN - TOMBALL HS				●	■	□	◆
T-101	1ST FLOOR CABLE ROUTING PLAN		▲		●	■	□	◆
T-102	TECHNOLOGY CONDUIT ROUTING (NORTH-ELEVATION)				●	■	□	◆
T-103	TECHNOLOGY CONDUIT ROUTING (SOUTH-ELEVATION)				●	■	□	◆
TF-101	1ST LEVEL FIRE ALARM PLAN - COMPOSITE	Δ	▲		●	■	□	◆
TS-201	TECHNOLOGY SITE PLAN - TOMBALL MEMORIAL HS				●			
TS-301	TECHNOLOGY SITE PLAN - TOMBALL WEST HS				●			
TN-101	1ST LEVEL TECHNOLOGY PLAN - COMPOSITE	Δ	▲		●	■	□	◆
TN-501	MDF/IDF ENLARGED PLANS		▲		●	■	□	◆
TN-601	MDF/IDF ENLARGED DETAILS					■	□	◆
TN-701	TECHNOLOGY DETAILS	Δ	▲		●	■	□	◆
AUDIO VISUAL								
EAV0.01	LEGENDS, NOTES, DATA COORDINATION				●	■	□	◆
EAV0.02	POWER COORDINATION				●	■	□	◆
EAV0.03	CONDUIT RISER				●	■	□	◆
EAV1.01	OVERALL FLOOR PLAN				●	■	□	◆
EAV1.02	ENLARGED PLAN - IDF				●	■	□	◆
EAV2.01	OVERALL RCP				●	■	□	◆
EAV4.01	BUILDING SECTIONS- INDOOR MAC FIELD				●	■	□	◆
EAV4.02	BUILDING SECTIONS - 3D RENDERS				●	■	□	◆
EAV4.04	BUILDING SECTIONS-TOUCH STATIONS				●	■	□	◆
EAV4.05	BUILDING SECTIONS - AUDIO COVERAGE PATTERN				●	■	□	◆
EAV7.01	RACK ELEVATIONS				●	■	□	◆
EAV8.01	ONELINE DIAGRAMS				●	■	□	◆
EAV9.01	MOUNTING DETAILS				●	■	□	◆

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Tomball ISD-Multi-Program Activity Center- Tomball High School

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B | A

KEY PLAN

TRUE NORTH



CLIENT	
TOMBALL ISD	
DATE	PROJECT NUMBER
10/30/2026	25046901

DRAWING HISTORY

No.	Description	Date

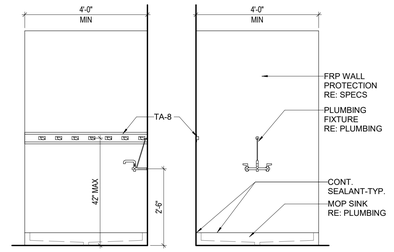
CHECKED BY: PBK SPORTS

DRAWN BY: MDM

SHEET INDEX

G0.01

Plot Stamp:
11/6/2026 12:39:22 PM



6 TYP CUSTODIAL CLOSET
1/2" = 1'-0"

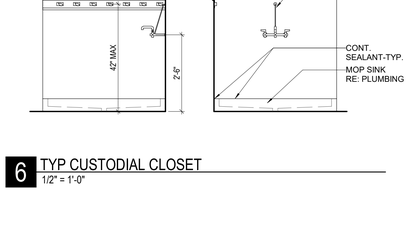
DESCRIPTION	Ages: 13 - Adult (Grades 8 and Above)
WATER CLOSET: To Top of Seat	17" - 19"
Grab Bar Height	33" - 36"
Flush Control Height	25" TYP 44" MAX
URINAL: Max. To Rim of Basin	17"
Flush Control Height (Max)	44"
LAVATORIES: Front Approach	
Knee Clearance (Min)	27"
To Top (Max)	34"
To Faucet (Max)	25"
FIXED OR BUILT-IN:	
Height of Tables or Counter:	28" - 34"
Knee Clearance (Min)	27"
SHELVES, DISPENSERS: Max. Height to Control Device	
Frontal Approach (Max)	48"
Side Approach (Max)	48"
DRINKING FOUNTAINS:	
To Spout (Max)	36"
Knee Clearance (Min)	27"
SWITCHES AND CONTROLS	
Frontal Approach (Max)	48"
Side Approach (Max)	48"
MIRRORS: Max. Height to Bottom of Reflective Surface	
At Lavatories and Counter Tops	40"
Full Length	35"
MIRRORS: Min. Height to Top of Reflective Surface	
Full Length	74"
TOILET PAPER DISPENSER: Height to Center of Roll (Max)	19"
PAPER TOWEL DISPENSER: Height to Operating Mechanism	48"

1

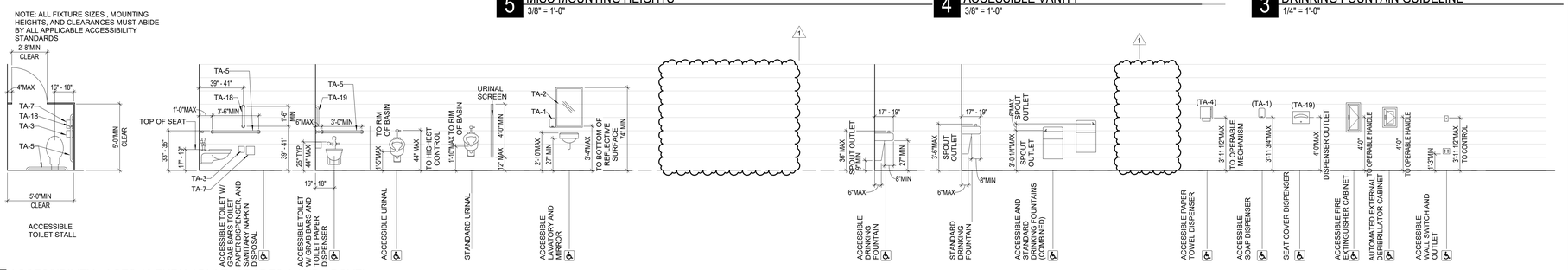
2 ACCESSIBILE MOUNTING HEIGHTS
1/4" = 1'-0"

5 MISC MOUNTING HEIGHTS
3/8" = 1'-0"

4 ACCESSIBLE VANITY
3/8" = 1'-0"



3 DRINKING FOUNTAIN GUIDELINE
1/4" = 1'-0"



1 ACCESSIBILITY - AGES 13 THRU ADULT (GRADES 8 AND ABOVE)
1/4" = 1'-0"

Plot Stamp:
11/6/2026 12:39:23 PM

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Tomball ISD-Multi-Program Activity Center-Tomball High School

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KEY PLAN

TRUE NORTH

REGISTERED ARCHITECT EDMUND X. RAMIREZ 34374 STATE OF TEXAS

CLIENT	
TOMBALL ISD	
DATE	PROJECT NUMBER
10/30/2026	25046901

DRAWING HISTORY

No.	Description	Date
1	Addendum 1	11/06/26

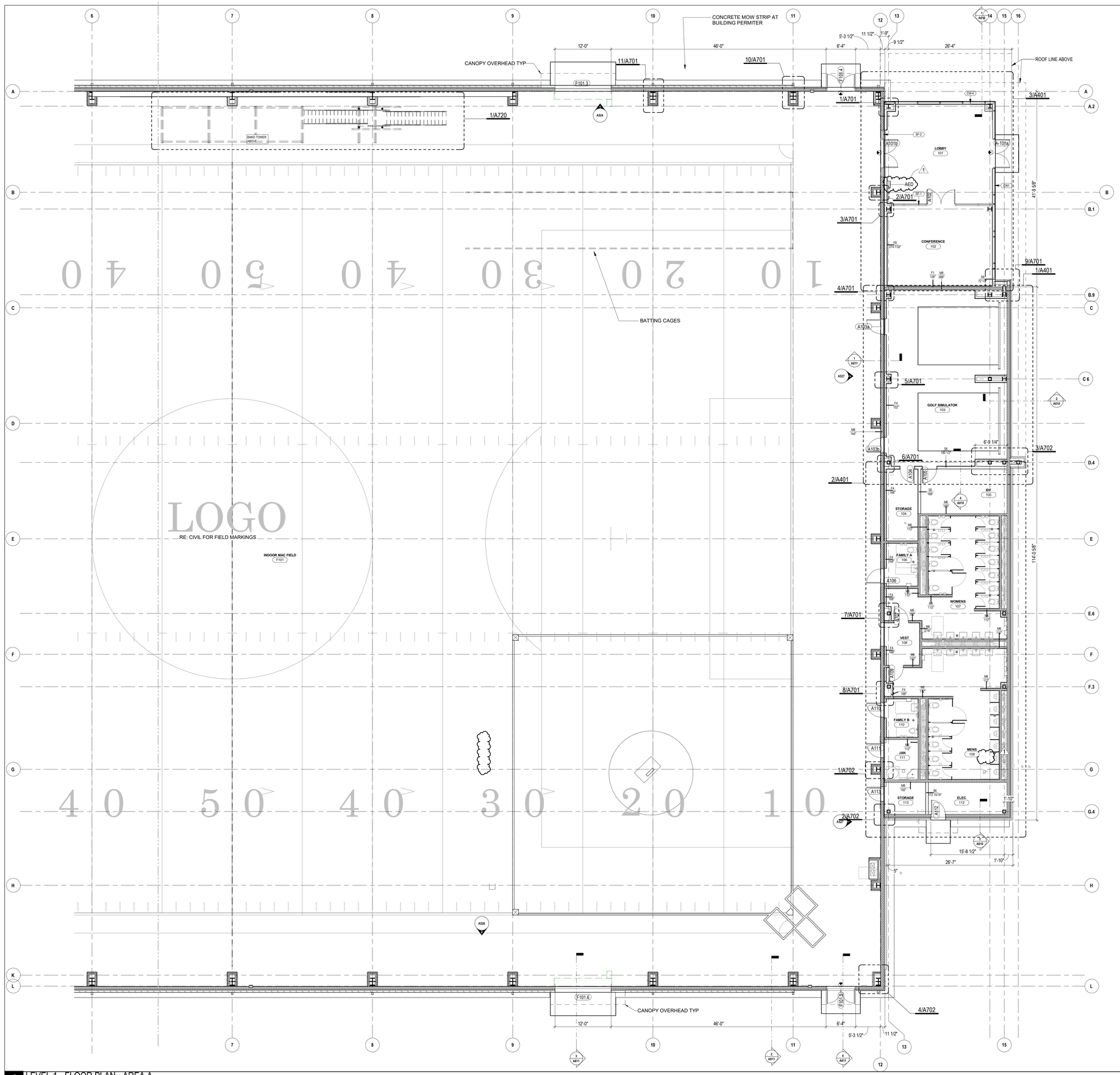
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DRAWN BY: Author

ACCESSIBILITY MOUNTING HEIGHTS GUIDELINES

G0.16

A110A - LEVEL 1 FLOOR PLAN - AREA A



1 LEVEL 1 - FLOOR PLAN - AREA A
1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. 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" 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 M8 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE M4 U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. PROVIDE AND INSTALL CONT. 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 6 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. COORD. 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. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
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21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
22. 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
23. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK

LEGEND - FLOOR PLAN SYMBOLS

INTERIOR ELEVATIONS
DETAIL NUMBER
SHEET NUMBER

WALL SECTIONS
DETAIL NUMBER
SHEET NUMBER

PLAN CALLOUTS
DETAIL NUMBER
SHEET NUMBER

MATCHLINE
SHEET NUMBER
DETAIL NUMBER

BUILDING ELEMENTS
EXISTING PARTITION TO REMAIN
TEMPORARY PARTITION
PARTITION
PARTITION TAG: REFER TO PARTITION SHEETS FOR MORE INFORMATION
DOOR TAG (SHOWS DOOR NUMBER) REFER TO DOOR SCHEDULE

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B A

KEY PLAN

TRUE NORTH

REGISTERED ARCHITECT EDMUND X. RAMIREZ 14374 STATE OF TEXAS

CLIENT	
TOMBALL ISD	
DATE	PROJECT NUMBER
10/30/2026	25046901

DRAWING HISTORY

No.	Description	Date
1	Addendum 1	11/06/26

CHECKED BY: Checker

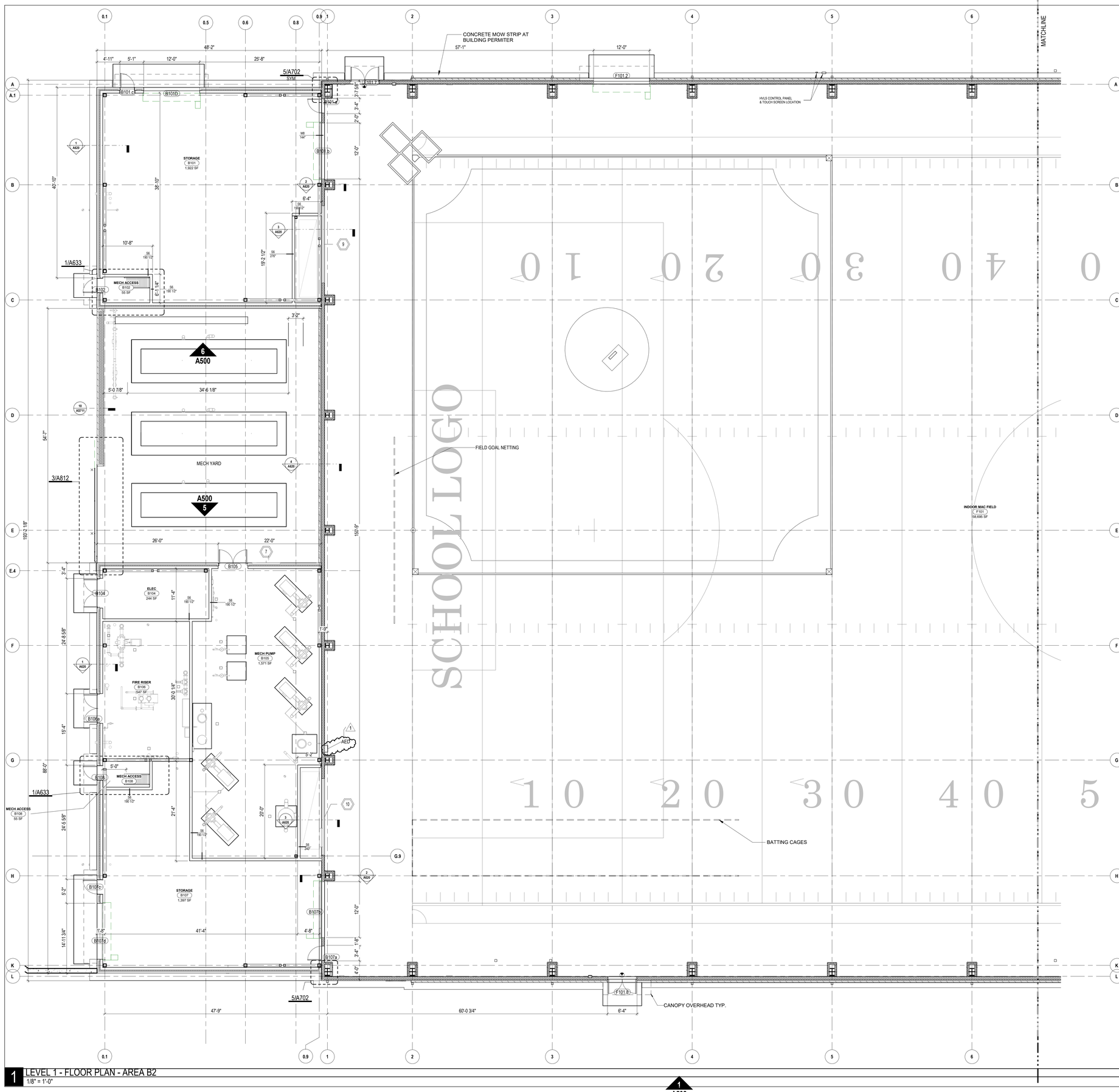
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LEVEL 1 FLOOR PLAN - AREA A

A110A

Plot Stamp:
11/6/2026 2:46:05 PM

A110B - LEVEL 1 FLOOR PLAN - AREA B



1 LEVEL 1 - FLOOR PLAN - AREA B2
1/8" = 1'-0"

1 A502

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LEGEND - FLOOR PLAN SYMBOLS

INTERIOR ELEVATIONS
DETAIL NUMBER
SHEET NUMBER

WALL SECTIONS
DETAIL NUMBER
SHEET NUMBER

PLAN CALLOUTS
DETAIL NUMBER
SHEET NUMBER

MATCHLINE
SHEET NUMBER
DETAIL NUMBER

BUILDING ELEMENTS
EXISTING PARTITION TO REMAIN
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PARTITION TAG: REFER TO PARTITION SHEETS FOR MORE INFORMATION
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KEY PLAN

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CLIENT	
TOMBALL ISD	
DATE	PROJECT NUMBER
10/30/2026	25046901

DRAWING HISTORY

No.	Description	Date
1	Addendum 1	11/06/26

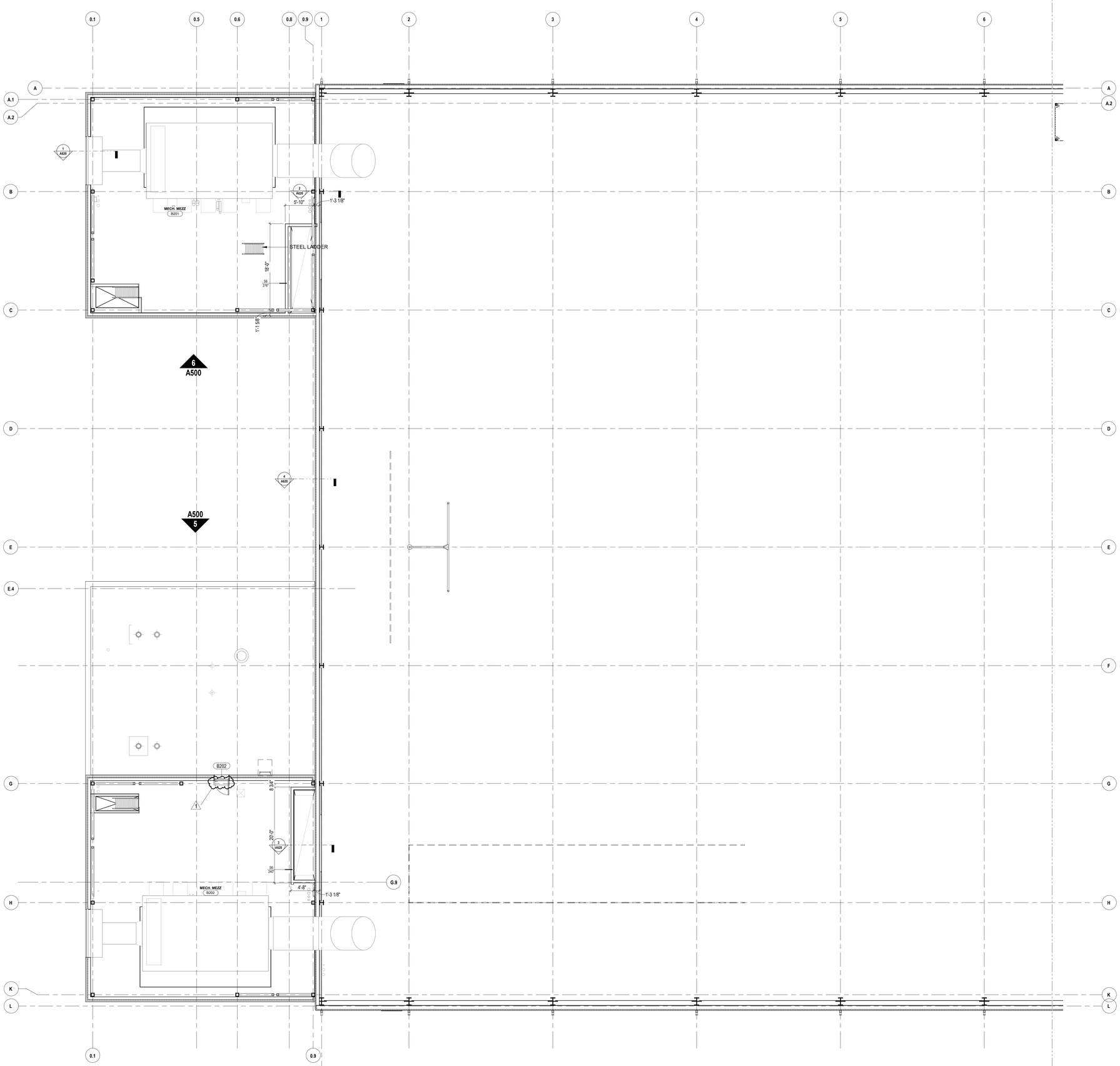
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DRAWN BY: Author

LEVEL 1 FLOOR PLAN - AREA B

A110B

Plot Stamp:
11/6/2026 12:39:28 PM



1 MEZZANINE LEVEL
1/8" = 1'-0"

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Tomball ISD-Multi-Program Activity Center-Tomball High School

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KEY PLAN

TRUE NORTH

REGISTERED ARCHITECT
EDMUND X. RAMIREZ
14374
STATE OF TEXAS

CLIENT	
TOMBALL ISD	
DATE	PROJECT NUMBER
10/30/2026	25046901

DRAWING HISTORY

No.	Description	Date
1	Addendum 1	11/06/26

CHECKED BY: Checker

DRAWN BY: Author

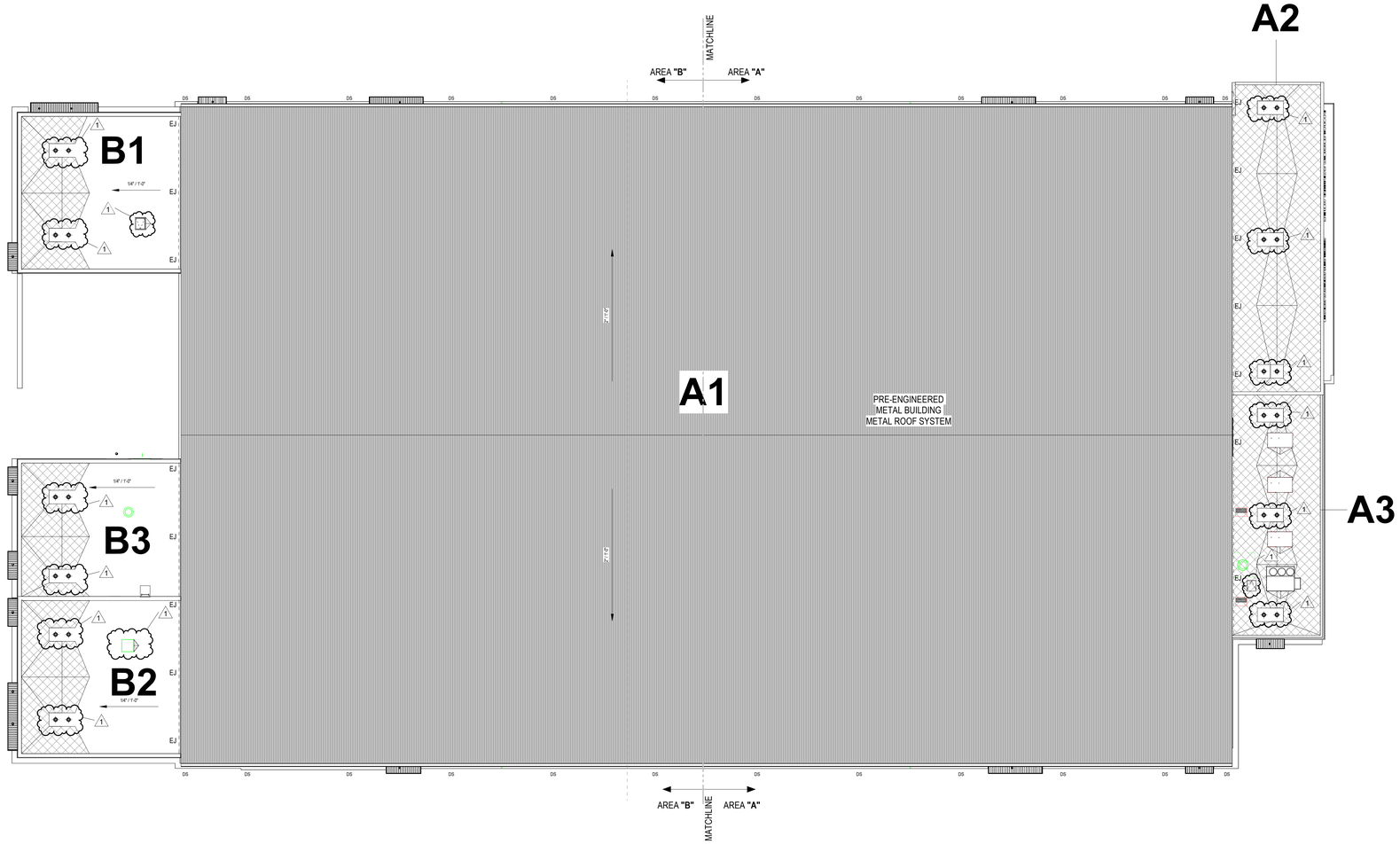
MEZZANINE FLOOR PLAN

A120

Plot Stamp:
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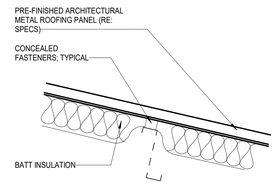
Roof Schedule

Mark	Area	Type Mark	Comments
A1	60,565 SF	R1	
A2	2,357 SF	R2	
A3	1,921 SF	R2	
B1	2,089 SF	R3	
B2	2,120 SF	R3	
B3	1,834 SF	R3	
Grand total	70,886 SF		

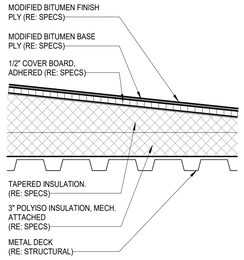


1 ROOF PLAN - COMPOSITE
1/16" = 1'-0"

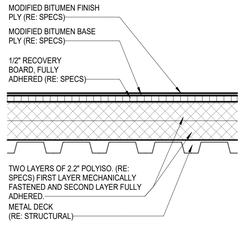
R1



R2



R3



ROOFING - NOMENCLATURE
NOT TO SCALE

1. CONTRACTOR SHALL REVIEW AND COORDINATE WITH ARCHITECTURAL, MEP, AND STRUCTURAL DOCUMENTS TO ASCERTAIN EXACT CONDITIONS AND COMPONENTS RELATED TO THE WORK DESCRIBED BY THESE DOCUMENTS. ALL WORK SHALL BE IN ACCORDANCE WITH ACCEPTED MANUFACTURER'S PRINTED INSTRUCTIONS AND NRCA STANDARDS.
2. DIMENSIONS, DETAILS, EQUIPMENT SIZE AND LOCATION SHOWN IN THESE CONSTRUCTION DOCUMENTS ARE FOR CONVEYANCE OF DESIGN INTENT ONLY. EXACT SIZE, LOCATION, TYPE OF MATERIAL AND TYPE OF CONSTRUCTION OF EXISTING CONDITIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN AND CONFIRM.
3. INDICATED ROOF HEIGHTS ARE GENERAL IN NATURE. RE: STRUCTURAL FOR FRAMING HEIGHTS.
4. REFER TO NOMENCLATURE FOR TYPE OF ROOF SYSTEM. AREAS ARE MARKED WITH DESIGNATED LETTER ON ROOF PLAN.
5. NOTE THAT THE DETAILS DRAWN ARE GENERIC IN NATURE AND ARE NOT NECESSARILY LOCATED AND KEYED TO THE ROOF PLANS.
6. ALL NEW / EXISTING CRICKETS AND TAPERED INSULATION SHALL BE INSTALLED WITH A FINISHED 1/2" PER FOOT MIN. SLOPE. CRICKET THE UP SLOPE SIDE OF ALL SQUARE CURBS AND PROJECTIONS OVER 20" IN WIDTH.
7. ALL CURB MOUNTED HVAC UNITS, EQUIPMENT, ETC. SHALL HAVE A MINIMUM 10" CURB HEIGHT.
8. WORK TO ANY UTILITY CONDUIT OR PIPE SHALL BE PERFORMED BY SPECIFIC LICENSED SUBCONTRACTORS SPECIALIZING IN HVAC, PLUMBING AND ELECTRICAL WORK. PERMITS AND INSPECTIONS ARE REQUIRED.
9. UNLESS INDICATED OTHERWISE ON THE CONSTRUCTION DOCUMENTS, ALL EXISTING JOINTS / AREA DIVIDERS / CURB MOUNTED EQUIPMENT / SKYLIGHTS SHALL BE MIN. 10" ABOVE ROOF DECK.
10. ALL SOIL STACK FLASHING SHALL BE A MIN. 10" ABOVE FINISHED ROOF SURFACE. COUPLE PVC PIPE ABOVE DECK AND COUPLE CAST IRON PIPE BELOW DECK. PROPERLY SUPPORT PIPE BELOW ROOF DECK FROM LATERAL MOVEMENT.
11. ALL PIPING/ CONDUITS/ ETC. SHALL BE A MIN. 10" ABOVE ROOF SURFACE. PROVIDE PORTABLE PIPE HANGERS WITH PROTECTION PADS AS SPECIFIED. MEP CONTRACTORS SHALL PROVIDE SUPPORTS FOR UTILITY LINES.
12. PROVIDE "MERCURY" GAS LINE TEST (COORDINATE WITH OWNER AND ARCHITECT FOR WITNESS OF THE TEST). REPAIR ANY FOUND LEAKS AND RETEST AS REQUIRED.
13. PROVIDE SHEET METAL HOODED (WITH METAL FACE CLOSURE) CAPS, WOOD CURB, BOX COVER AT ALL GAS AND WATER PIPE ROOF PENETRATIONS AS DETAILED AND SPECIFIED. PROVIDE POSITIVE SLOPE AWAY FROM FACE COVER.
14. PROVIDE WALKWAY PROTECTION PADS AS SPECIFIED AROUND ALL ROOF HATCHES, HVAC ROOFTOP UNITS, DOORS THAT OPEN ONTO ROOF AND AT TOP AND BOTTOM OF ALL ROOF TOP ACCESS LOCATIONS.
15. ISOLATE ALL HEAT PIPES / FLUES AS DETAILED AND RECOMMENDED AND OUTLINED IN THE NRCA MANUAL FOR HOT STACK FLASHING AND AS DETAILED.
16. ALL OUTSIDE AIR INTAKES SHALL BE COVERED TO ELIMINATE ODORS AND FUMES FROM ENTERING INTO THE BUILDING DURING CONSTRUCTION WORK.
17. AFTER SUBSTANTIAL COMPLETION, THE GENERAL CONTRACTOR SHALL EXAMINE AND CLEAN NEW DRAIN LINES AND NEW AND EXISTING (AS APPLICABLE) GUTTERS OF DEBRIS AND BLOCKAGE, FLUSH WITH WATER TO ENSURE THAT DRAINS AND GUTTERS FLOW FREELY.
18. PRIOR TO COMMENCEMENT OF WORK, COORDINATE WALK OF ENTIRE ROOF WITH ROOFING MANUFACTURER'S TECHNICAL REPRESENTATIVE TO IDENTIFY AND LOCATE ALL AREAS OF HIGH SLOPE OR OTHER CONDITIONS WHICH MIGHT REQUIRE SPECIAL PROCEDURES FOR SYSTEM ATTACHMENT.
19. REFER TO MEP DRAWINGS FOR SIZE AND LOCATION OF NEW ROOF DECK PENETRATIONS AND ROOF TOP EQUIPMENT.
20. INSTALL NEW SPLASH PAN AT ALL LOCATIONS WHERE ROOF DRAINAGE DISCHARGES ONTO ROOF AREA. INSTALL NEW SPLASH BLOCKS WHERE ROOF DRAINAGE DISCHARGES ON GROUND.
21. REFER TO GENERAL DETAILS FOR TYPICAL SPLASH PAN, ROOF DRAIN AND OVERFLOW DRAIN DETAILS.
22. GENERAL CONTRACTOR TO ENSURE ALL ROOFTOP PENETRATIONS (SOIL STACKS, VENTS, ETC.) ARE INSTALLED MIN. 4'-0" FROM OTHER DECK PENETRATIONS, RISE WALLS, AND ROOF EDGE. MECHANICAL EQUIPMENT TO BE LOCATED MIN. 10'-0" FROM PERIMETER EDGE AND NO CLOSER THAN 4'-0" FROM RISE WALLS, OR ANY OTHER ROOF PENETRATION.
23. LOCATE PERIMETER DRAINS MAX. 6'-0" FROM EDGE TYPICAL UNLESS SHOWN OTHERWISE. (GENERAL CONTRACTOR TO COORDINATE WITH ROOFING AND PLUMBING CONTRACTOR.)
24. THROUGH WALL BASE FLASHING MIN. HEIGHT 10" AND MAX. HEIGHT 20" FROM FINISH DECK. DO NOT STEP THROUGH WALL FLASHING CLOSER THAN 5'-0" FROM CORNERS.
25. GENERAL CONTRACTOR SHALL COORDINATE LOCATION AND ORIENTATION OF ROOF HATCH AND ACCESS LADDER.
26. GENERAL CONTRACTOR SHALL COORDINATE ALL TOP OF STEEL TO TOP OF BLOCKING AND SUBSTRATE BOARD DIMENSIONS IN FIELD PRIOR TO ORDERING MATERIALS. NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR FAILURE TO COORDINATE THESE DIMENSIONS.
27. GENERAL CONTRACTOR SHALL VERIFY ROOF SLOPES WILL PROPERLY DRAIN AS SHOWN. TAPERED INSULATION HATCHING SHOWN IS NOT INTENDED TO ILLUSTRATE THE ENTIRE LIMITS OF TAPERED INSULATION. ROOF AREAS NOT SLOPED BY STRUCTURE SHALL BE SLOPED WITH TAPERED INSULATION TO ACHIEVE PROPER DRAINAGE.
28. PROVIDE ONE WAY MOISTURE VENTS AT ALL LIGHTWEIGHT CONCRETE OR GYPSUM OVER POUR AREAS AS RECOMMENDED BY THE ROOFING SYSTEM MANUFACTURER.
29. PAINT ALL EXPOSED GAS PIPE.

ROOFING - GENERAL NOTES
NOT TO SCALE

ROOFING - LEGEND
NOT TO SCALE

- PLUMBING VENT
- FLANGE VENT
- PITCH PAN
- ROOF DRAIN
- OVERFLOW DRAINS
- WALL DRAIN
- CURB MOUNTED VENT
- CURB MOUNTED INTAKE
- GUY WIRE
- POWER VENT
- HEATER VENT
- BOILER VENT
- TURBINE VENT
- PIPE BOX
- GOOSE NECK VENT
- CURB MOUNTED AC
- SPLASH BLOCK
- SPLASH PAN
- A/C ON SUPPORT CURBS
- ROOF HATCH
- SKYLIGHTS
- ANTENNA
- SATELLITE DISH
- SCUPPER
- GUTTER
- DOWNSPOUT
- WALL LADDER
- SWING LADDER
- EXHAUST AND SUPPLY FAN ON SINGLE CURB
- RIDGE LINE
- TAPERED INSULATION/CRICKET
- A1 ROOF AREA DESIGNATION
- TAPERED LIGHT WEIGHT CONCRETE
- AD AREA DIVIDER
- EJ EXPANSION JOINT
- C CONDENSATE LINE
- W WATER LINE
- E ELEC. LINE
- G GAS LINE

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KEY PLAN

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TOMBALL ISD	
DATE	PROJECT NUMBER
10/30/2026	25046901

DRAWING HISTORY

No.	Description	Date
1	Addendum 1	11/06/26

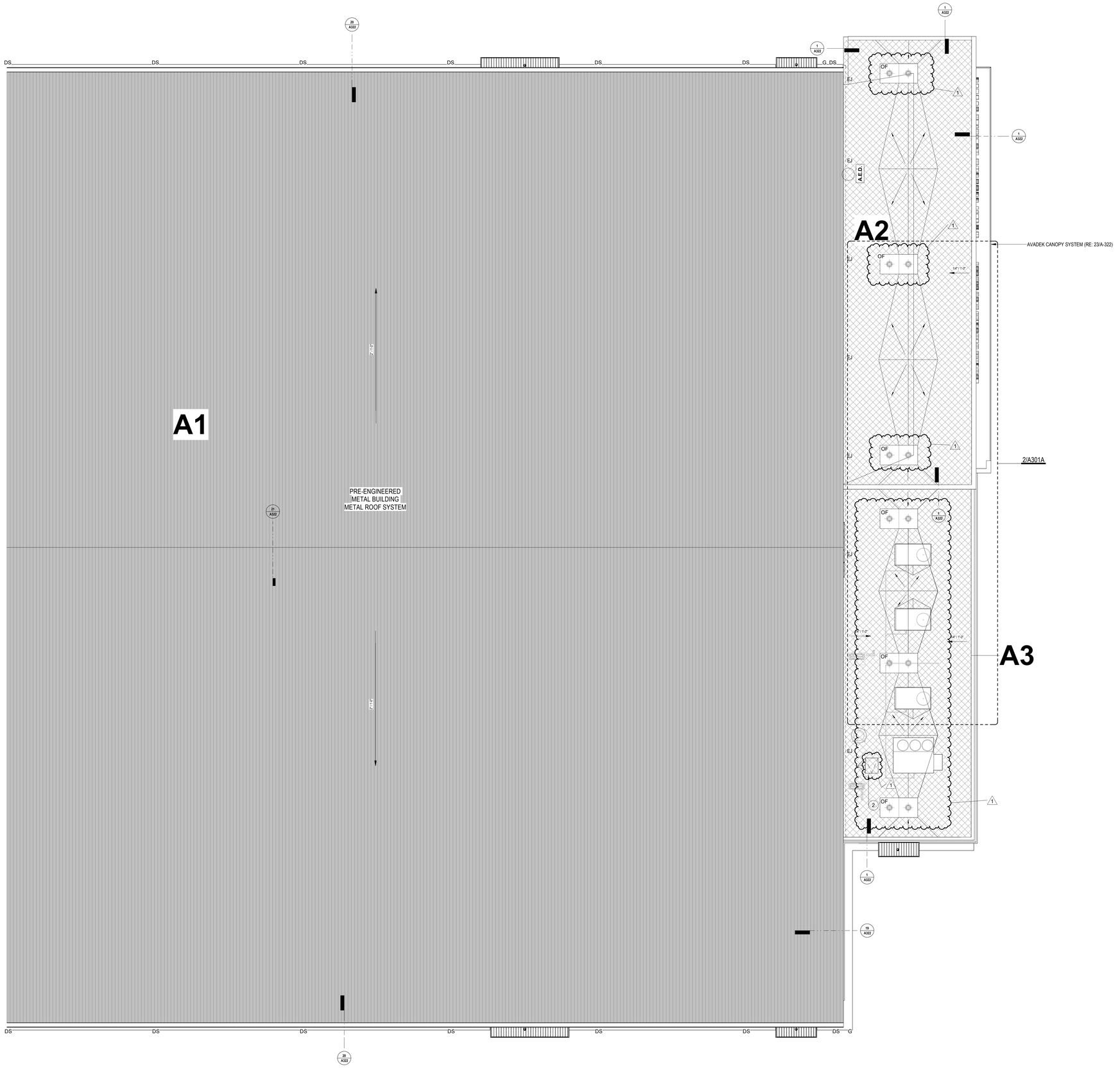
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DRAWN BY: Author

ROOF PLAN - OVERALL

A301

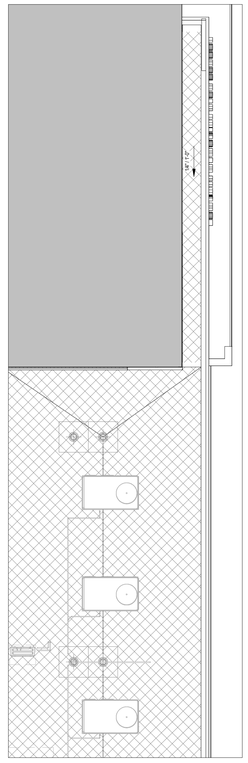
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1 ENLARGED ROOF PLAN - AREA A
1/8" = 1'-0"

Roof Schedule

Mark	Area	Type Mark	Comments
A1	60,565 SF	R1	
A2	2,357 SF	R2	
A3	1,921 SF	R2	
B1	2,089 SF	R3	
B2	2,120 SF	R3	
B3	1,834 SF	R3	
Grand total	70,886 SF		



2 AREA A - UNDER CANOPY PLAN
1/8" = 1'-0"

1. ROOF ACCESS LADDER - RE: 24/A-322
2. ROOF HATCH - RE: 14/A-322 (RE: SPECS)
3. ALUMINUM CANOPY FLASHING - RE: 23/A-322 (RE: SPECS)

ROOFING - KEYNOTES
NOT TO SCALE

- PLUMBING VENT
- FLANGE VENT
- PITCH PAN
- ROOF DRAIN
- OVERFLOW DRAINS
- WALL DRAIN
- CURB MOUNTED VENT
- CURB MOUNTED INTAKE
- GUY WIRE
- POWER VENT
- HEATER VENT
- BOILER VENT
- TURBINE VENT
- PIPE BOX
- GOOSE NECK VENT
- CURB MOUNTED AC
- SPLASH BLOCK
- SPLASH PAN
- A/C ON SUPPORT CURBS
- ROOF HATCH
- SKYLIGHTS
- ANTENNA
- SATELLITE DISH
- SCUPPER
- GUTTER
- DOWNSPOUT
- WALL LADDER
- SWING LADDER
- EXHAUST AND SUPPLY FAN ON SINGLE CURB
- RIDGE LINE
- TAPERED INSULATION/CRICKET
- A1 ROOF AREA DESIGNATION
- TAPERED LIGHT WEIGHT CONCRETE
- AD AREA DIVIDER
- EJ EXPANSION JOINT
- C CONDENSATE LINE
- W WATER LINE
- E ELEC. LINE
- G GAS LINE

ROOFING - LEGEND
NOT TO SCALE

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KEY PLAN

TRUE NORTH

REGISTERED ARCHITECT EDMUND X. RAMIREZ 14374 STATE OF TEXAS

CLIENT	
TOMBALL ISD	
DATE	PROJECT NUMBER
10/30/2026	25046901

DRAWING HISTORY

No.	Description	Date
1	Addendum 1	11/06/26

CHECKED BY: JP

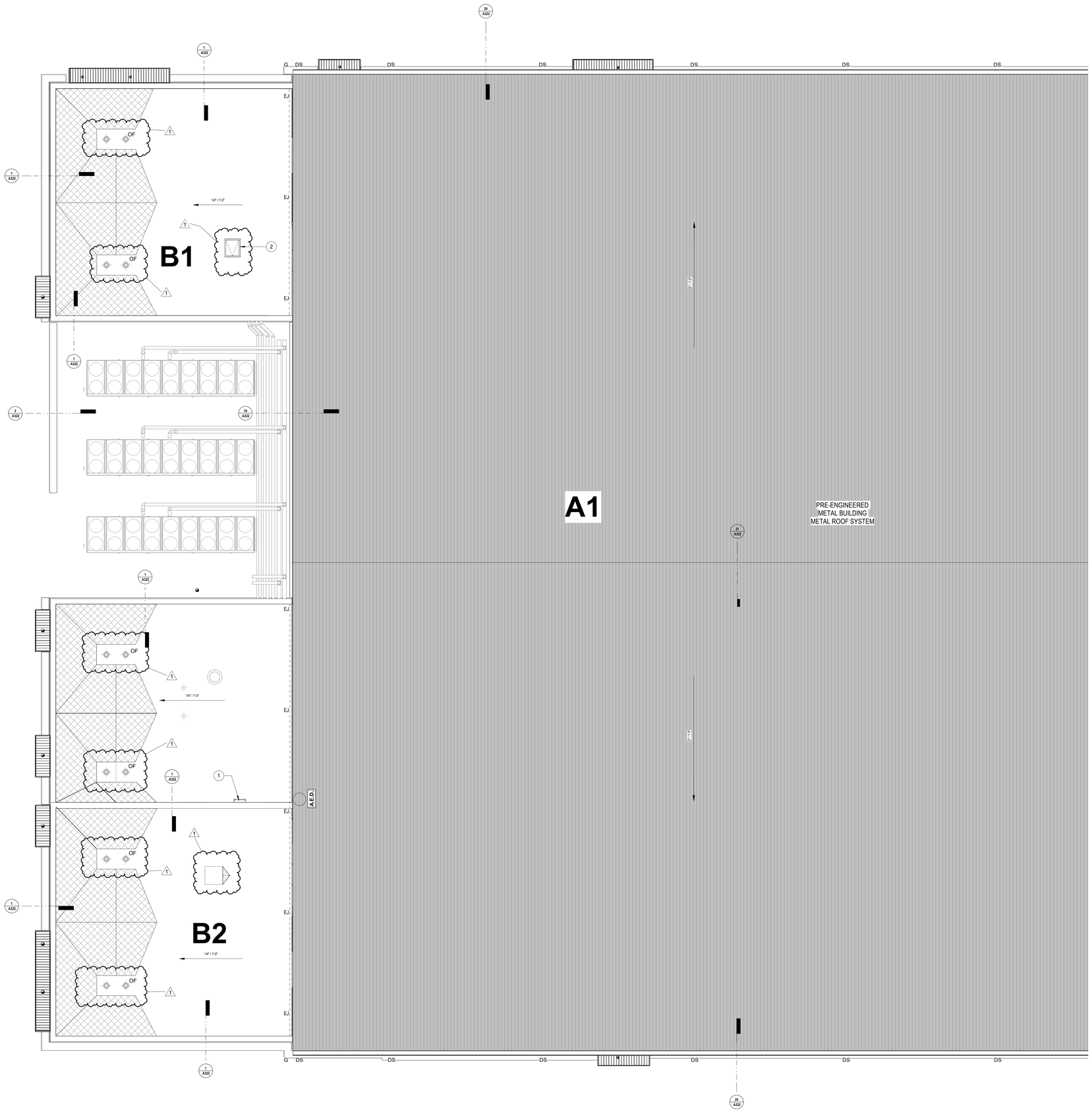
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ENLARGED ROOF PLAN - AREA A

A301A

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A301B - ENLARGED ROOF PLAN - AREA B



1 ENLARGED ROOF PLAN - AREA B2
1/8" = 1'-0"

Roof Schedule

Mark	Area	Type Mark	Comments
A1	60,565 SF	R1	
A2	2,357 SF	R2	
A3	1,921 SF	R2	
B1	2,089 SF	R3	
B2	2,120 SF	R3	
B3	1,834 SF	R3	
Grand total	70,886 SF		

1. ROOF ACCESS LADDER - RE: 24/A-322
2. ROOF HATCH - RE: 14/A-322 (RE: SPECS)
3. ALUMINUM CANOPY FLASHING - RE: 23/A-322 (RE: SPECS)

ROOFING - KEYNOTES
NOT TO SCALE

- PLUMBING VENT
- FLANGE VENT
- PITCH PAN
- ROOF DRAIN
- OVERFLOW DRAINS
- WALL DRAIN
- CURB MOUNTED VENT
- CURB MOUNTED INTAKE
- GUY WIRE
- POWER VENT
- HEATER VENT
- BOILER VENT
- TURBINE VENT
- PIPE BOX
- GOOSE NECK VENT
- CURB MOUNTED AC
- SPLASH BLOCK
- SPLASH PAN
- A/C ON SUPPORT CURBS
- ROOF HATCH
- SKYLIGHTS
- ANTENNA
- SATELLITE DISH
- SCUPPER
- GUTTER
- DOWNSPOUT
- WALL LADDER
- SWING LADDER
- EXHAUST AND SUPPLY FAN ON SINGLE CURB
- RIDGE LINE
- TAPERED INSULATION/CRICKET
- A1 ROOF AREA DESIGNATION
- TAPERED LIGHT WEIGHT CONCRETE
- AD AREA DIVIDER
- EJ EXPANSION JOINT
- C CONDENSATE LINE
- W WATER LINE
- E ELEC. LINE
- G GAS LINE

ROOFING - LEGEND
NOT TO SCALE

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KEY PLAN

TRUE NORTH

REGISTERED ARCHITECT
EDWARD J. PERRY
64374
STATE OF TEXAS

CLIENT	
TOMBALL ISD	
DATE	PROJECT NUMBER
10/30/2026	25046901

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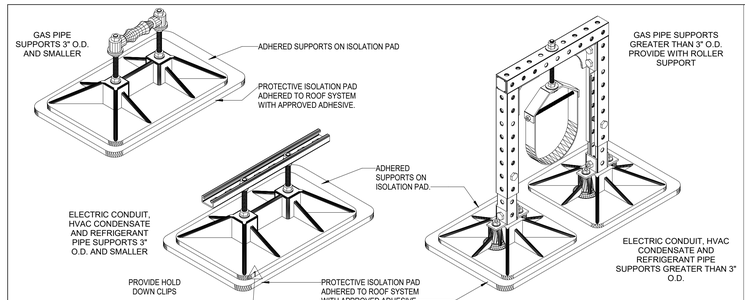
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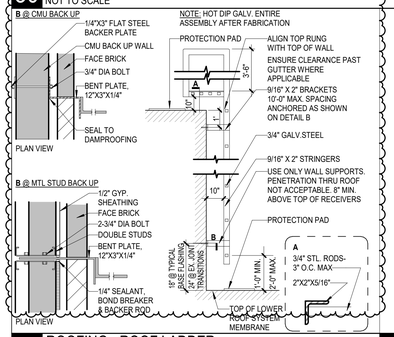
ENLARGED ROOF PLAN - AREA B

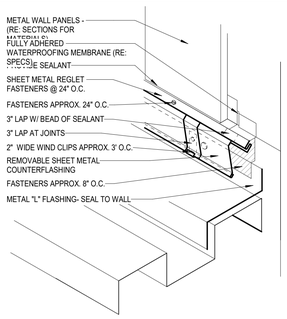
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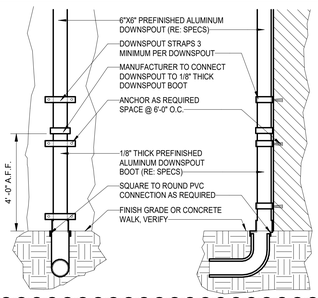
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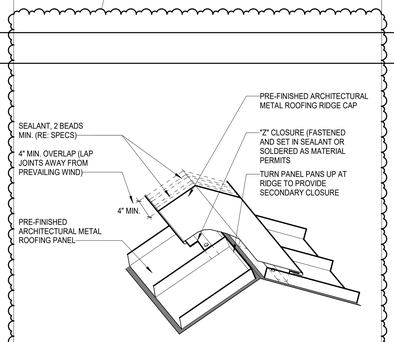


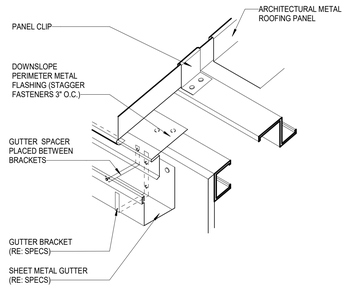
30 ROOFING - PIPE SUPPORTS
NOT TO SCALE

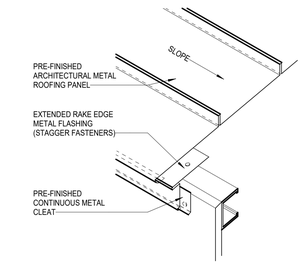




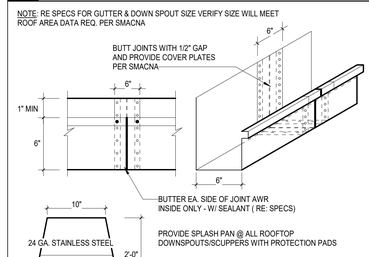




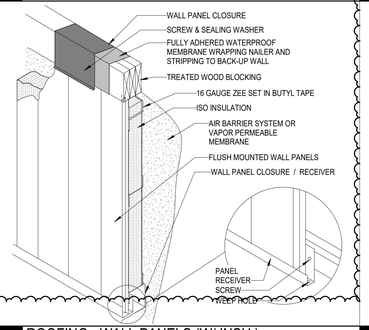




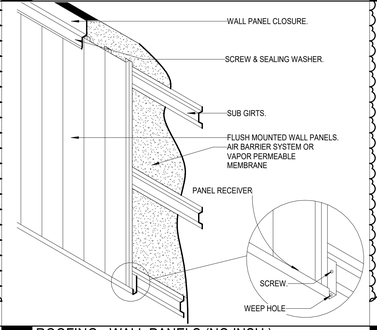
24 ROOFING - ROOF LADDER
NOT TO SCALE



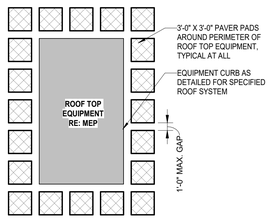
23 ROOFING (METAL) - AVADEK @ PANELS
NOT TO SCALE



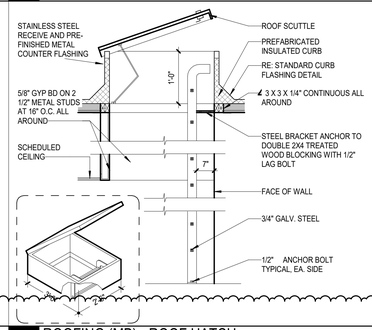
22 ROOFING - DOWNSPOUT TO BOOT
NOT TO SCALE



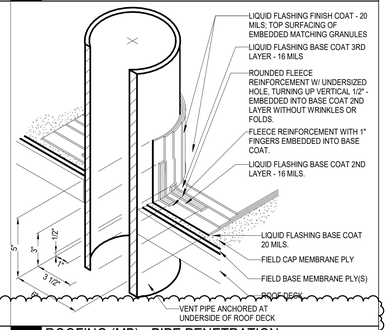
21 ROOFING (METAL) - RIDGE NO DECK
NOT TO SCALE



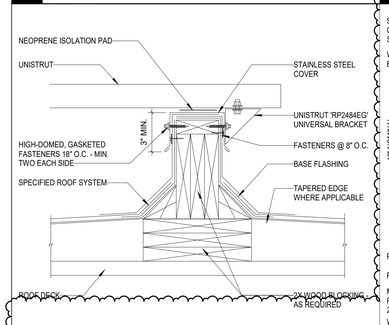
20 ROOFING (METAL) - EDGE w/ GUTTER NO DECK
NOT TO SCALE



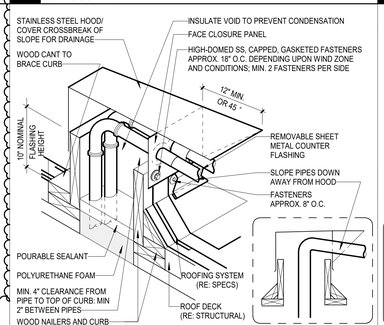
19 ROOFING (METAL) - EDGE w/ RAKE NO DECK
NOT TO SCALE



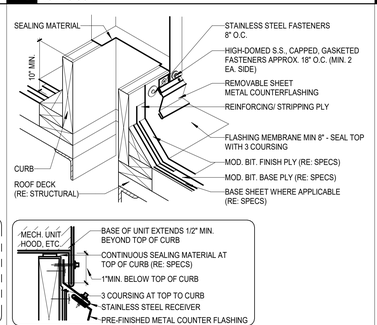
18 GUTTER JOINT AND SPLASH PANS
NOT TO SCALE



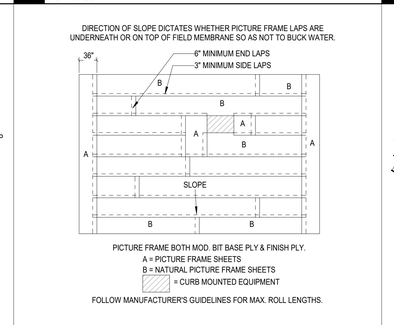
17 ROOFING - WALL PANELS (W/ INSU.)
NOT TO SCALE



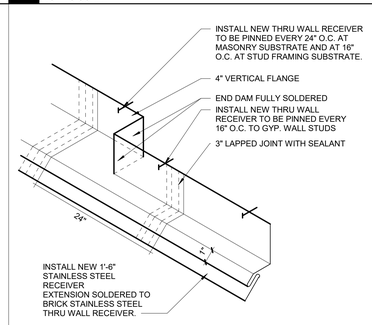
16 ROOFING - WALL PANELS (NO INSU.)
NOT TO SCALE



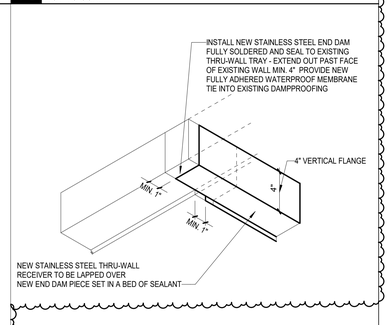
15 ROOFING - WALK PADS
NOT TO SCALE



14 ROOFING (MB) - ROOF HATCH
NOT TO SCALE



13 ROOFING (MB) - PIPE PENETRATION
NOT TO SCALE

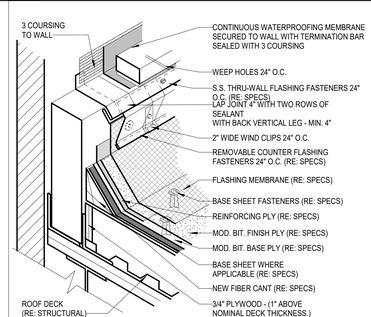


12 ROOFING (MB) - EQUIPMENT SUPPORT
NOT TO SCALE

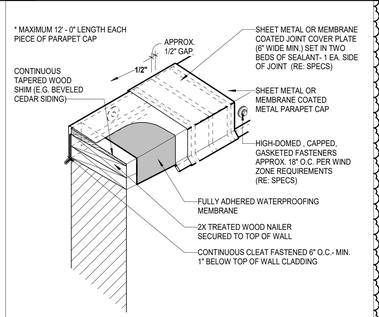
11 ROOFING (MB) - HOODED CURB
NOT TO SCALE

10 ROOFING (MB) - EQUIPMENT CURB
NOT TO SCALE

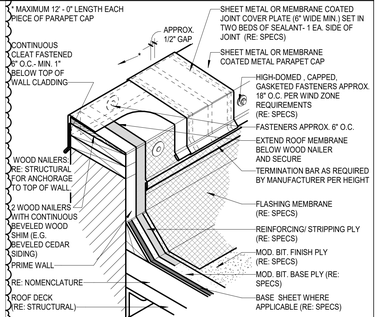
9 ROOFING (MB) - PICTURE FRAME DETAIL
NOT TO SCALE



8 ROOFING - BRICK-PLASTER THRU-WALL
NOT TO SCALE



7 ROOFING - THRU-WALL TRAY
NOT TO SCALE



3 ROOFING (MB) - BASE FLASHING
NOT TO SCALE

2 ROOFING - COPING CAP
NOT TO SCALE

1 ROOFING (MB) - PARAPET
NOT TO SCALE

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KEY PLAN

TRUE NORTH

REGISTERED ARCHITECT EDMUND A. RAMIREZ JR. 14378 STATE OF TEXAS

CLIENT
TOMBALL ISD

DATE	PROJECT NUMBER
10/30/2026	25046901

DRAWING HISTORY

No.	Description	Date
1	Addendum 1	11/06/26

CHECKED BY: JP

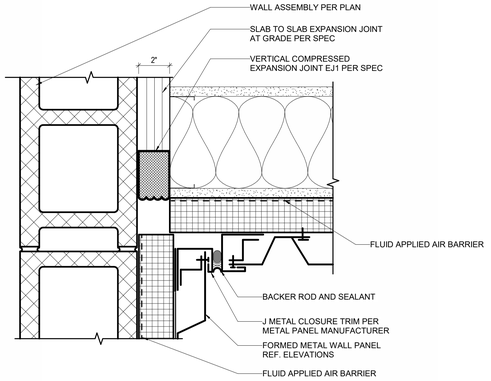
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ROOF DETAILS

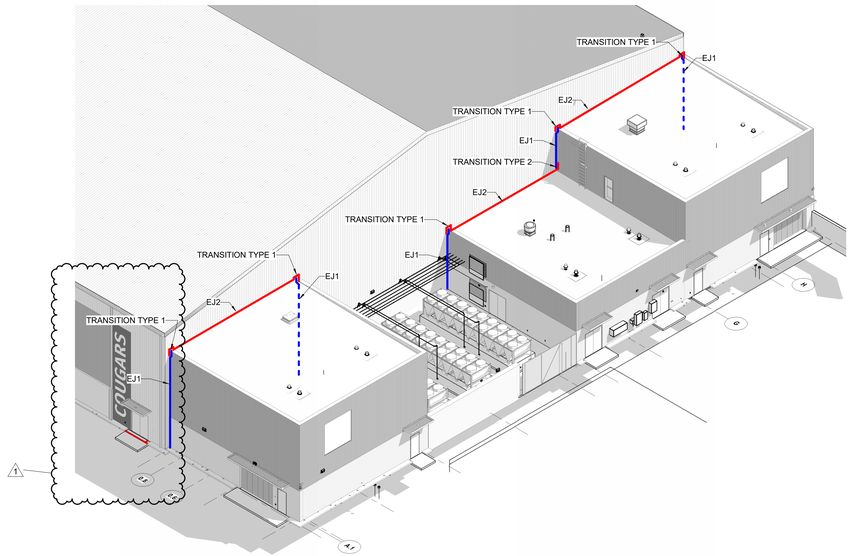
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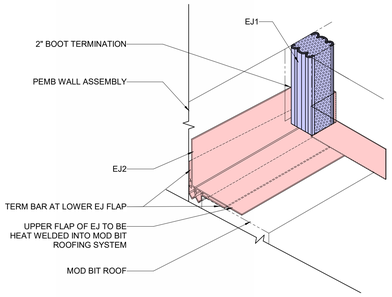
A323 - EXPANSION JOINT DETAILS



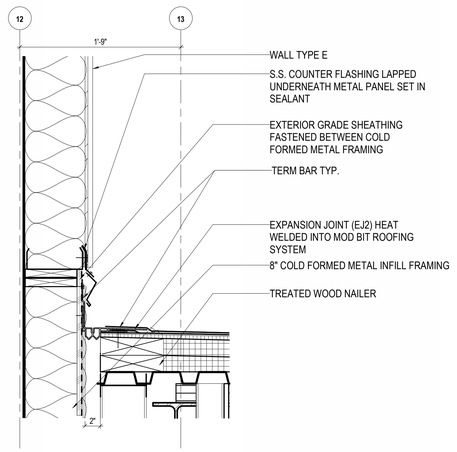
4 WALL TO WALL EXPANSION JOINT DETAIL (EJ1)
3" = 1'-0"



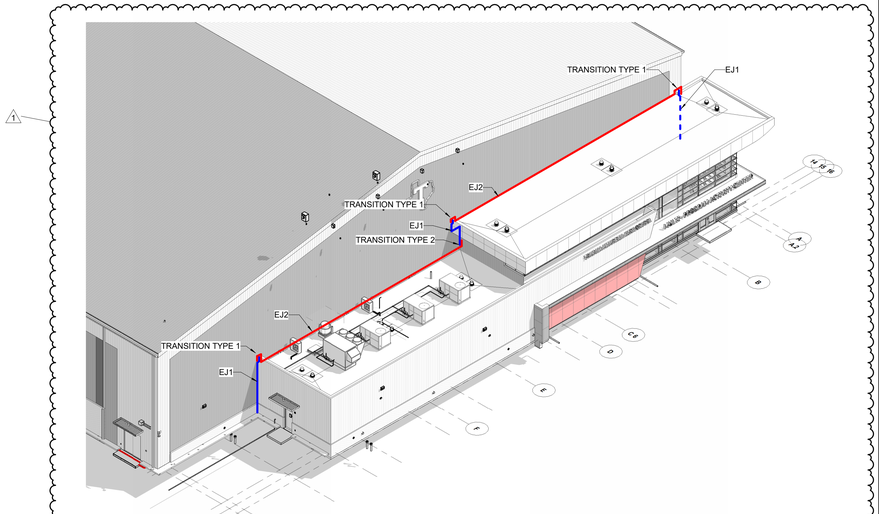
2 EXPANSION JOINT REFERENCE AXON 2



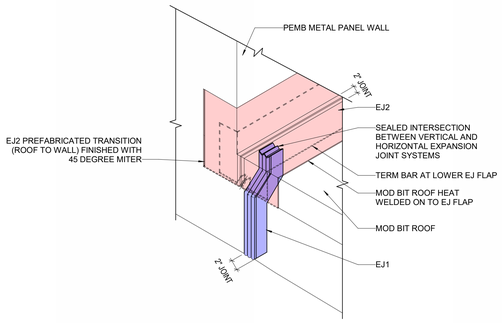
6 EJ2 TRANSITION DETAIL
1 1/2" = 1'-0"



3 ROOF TO WALL EXPANSION JOINT DETAIL (EJ2)
1 1/2" = 1'-0"



1 EXPANSION JOINT REFERENCE AXON



5 EJ TRANSITION 1 DETAIL
1 1/2" = 1'-0"

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10/30/2026	25046901

DRAWING HISTORY

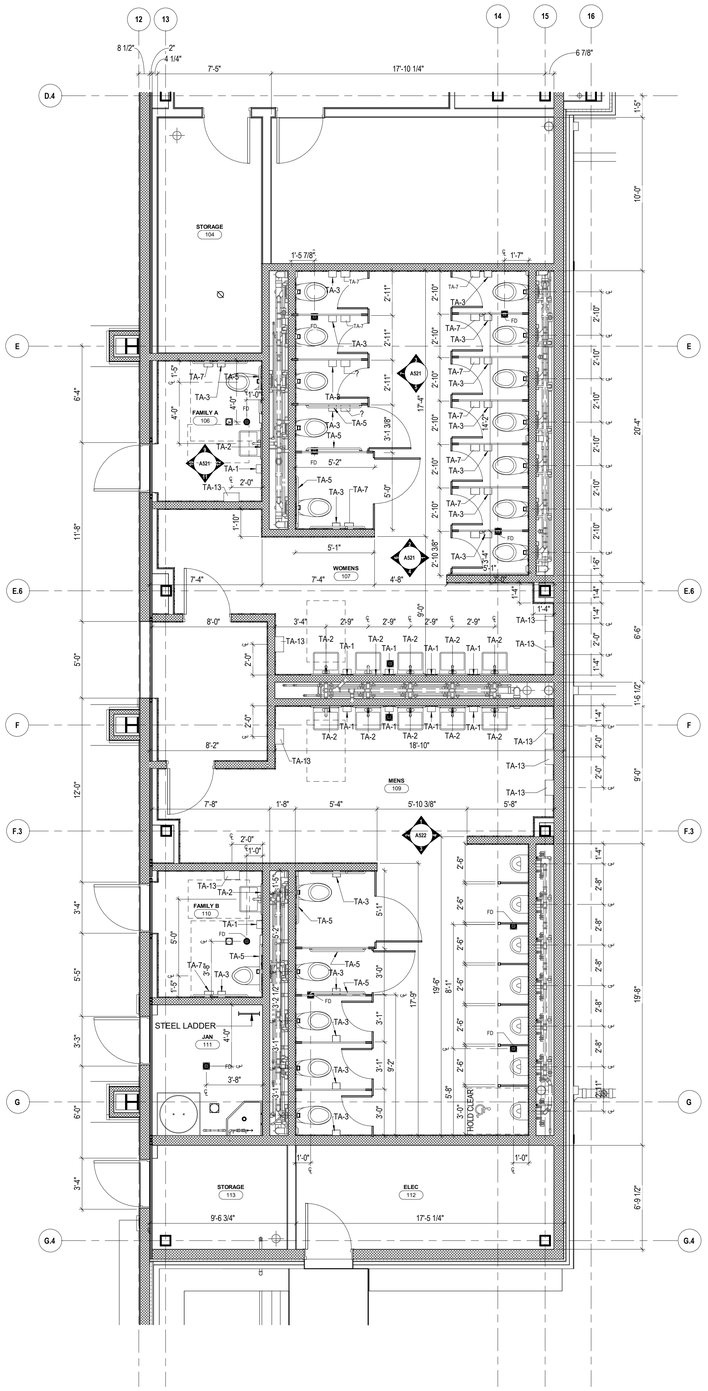
No.	Description	Date
1	Addendum 1	11/06/26

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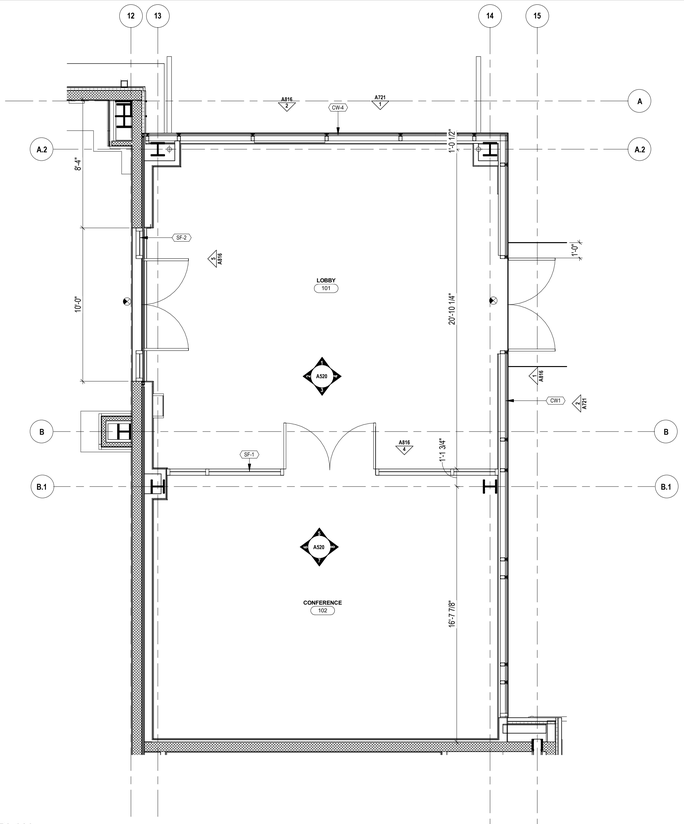
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EXPANSION JOINT DETAILS

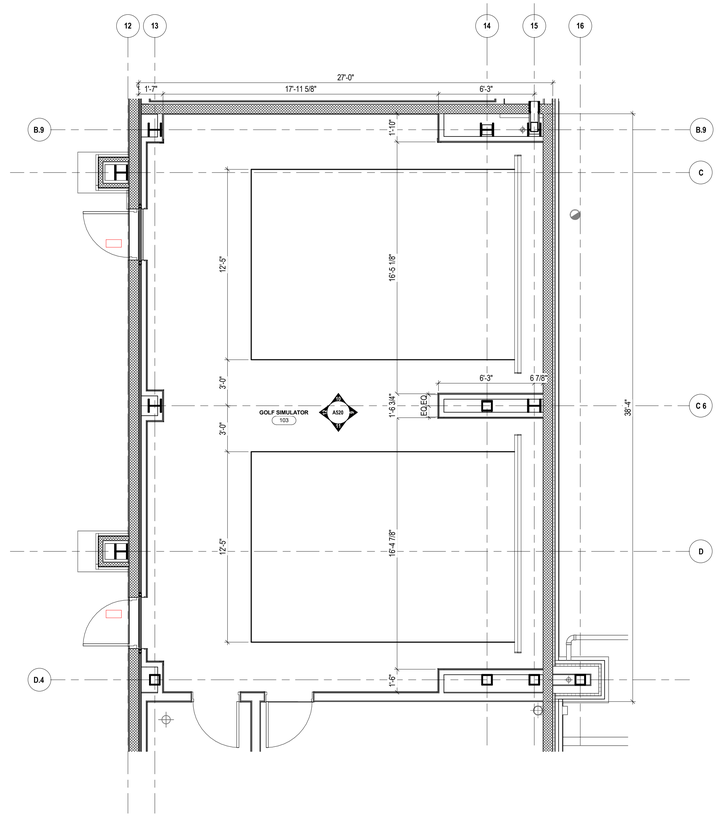
A323



2 ENLARGED FLOOR PLAN - RESTROOM
1/4" = 1'-0"



3 ENLARGED FLOOR PLAN
1/4" = 1'-0"



1 LEVEL 1 - FLOOR PLAN - AREA A - Callout 1
1/4" = 1'-0"

1

TOILET ACCESSORIES

LABEL	DESCRIPTION	REMARKS
TA-1	SOAP DISPENSER	OFCI
TA-2	MIRROR	
TA-3	TOILET PAPER DISPENSER	
TA-4	PAPER TOWEL DISPENSER / RECEPTACLE	OFCI
TA-5	GRAB BARS (AT TYPICAL ACCESSIBLE TOILETS)	
TA-7	SANITARY NAPKIN DISPOSAL	OFCI
TA-8	MOP AND BROOM HOLDER	
TA-11	CLOTHES HOOK	NOTE 5
TA-13	ELECTRIC HAND DRYER	
TA-15	GRAB BARS (AT AMBULATORY ACCESSIBLE TOILETS)	
TA-17	TRASH RECEPTACLE	N.I.C
TA-18	VERT GRAB BAR (AT ACCESSIBLE ICC A117.1 TOILETS)	

NOTE: ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED U.N.O.

1. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION
2. CONTRACTOR IS TO VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ALL APPLICABLE ACCESSIBILITY REQUIREMENTS
3. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE, VERIFY ALL PATTERNS WITH ARCHITECT
4. ALIGN MIRROR ON CENTER OF LAVATORY
5. ONE (1) HOOK SHALL BE INSTALLED INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS AND ONE HOOK AT EACH SHOWER
6. REFER TO SPECIFICATION SECTION 01 60 16 FOR ADDITIONAL TOILET ACCESSORIES INFORMATION

LEGEND - FLOOR PLAN SYMBOLS

INTERIOR ELEVATIONS
DETAIL NUMBER
SHEET NUMBER

WALL SECTIONS
DETAIL NUMBER
SHEET NUMBER

PLAN CALLOUTS
DETAIL NUMBER
SHEET NUMBER

MATCHLINE
SEE 3 / A.XX

MATCHLINE
SHEET NUMBER
DETAIL NUMBER

BUILDING ELEMENTS
EXISTING PARTITION TO REMAIN
TEMPORARY PARTITION
PARTITION
PARTITION TAG: REFER TO PARTITION SHEETS FOR MORE INFORMATION
DOOR TAG (SHOWS DOOR NUMBER) REFER TO DOOR SCHEDULE

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B A

KEY PLAN
TRUE NORTH

REGISTERED ARCHITECT
EDMUND A. FLEMING
14275
STATE OF TEXAS

CLIENT
TOMBALL ISD

DATE	PROJECT NUMBER
10/30/2026	25046901

DRAWING HISTORY

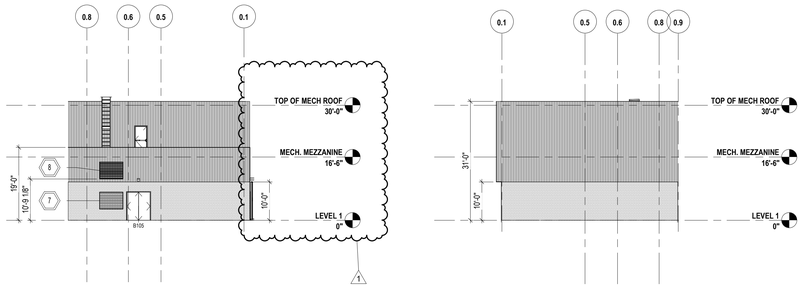
No.	Description	Date
1	Addendum 1	11/06/26

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DRAWN BY: Author

ENLARGED FLOOR PLANS

A401

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11/6/2026 12:39:51 PM



5 EXTERIOR ELEVATION MECH YARD PLAN SOUTH
1/16" = 1'-0"

6 EXTERIOR ELEVATION MECH YARD PLAN NORTH
1/16" = 1'-0"

EXTERIOR MATERIALS LEGEND

BK1 (R)
BRICK TYPE 1-FIELD
RUNNING BOND

MWP-1
FLUSH PRE-FINISHED UNINSULATED METAL WALL PANEL VERTICAL
MUSKET GRAY COLOR

MWP-2
BOX RIB PRE-FINISHED UNINSULATED METAL WALL PANEL VERTICAL
MUSKET GRAY COLOR

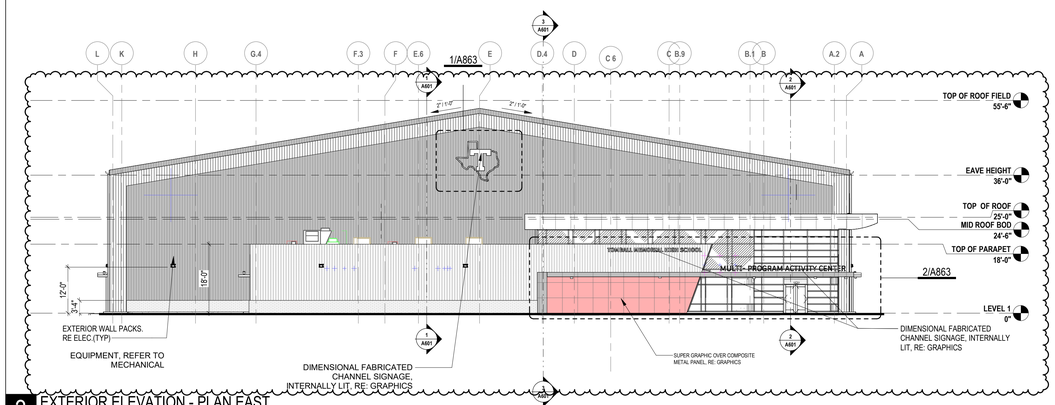
MWP-3
REVEAL PRE-FINISHED UNINSULATED METAL WALL PANEL VERTICAL
STONE WHITE COLOR

MWP-4
REVEAL PRE-FINISHED UNINSULATED METAL WALL PANEL VERTICAL
SLATE GRAY COLOR

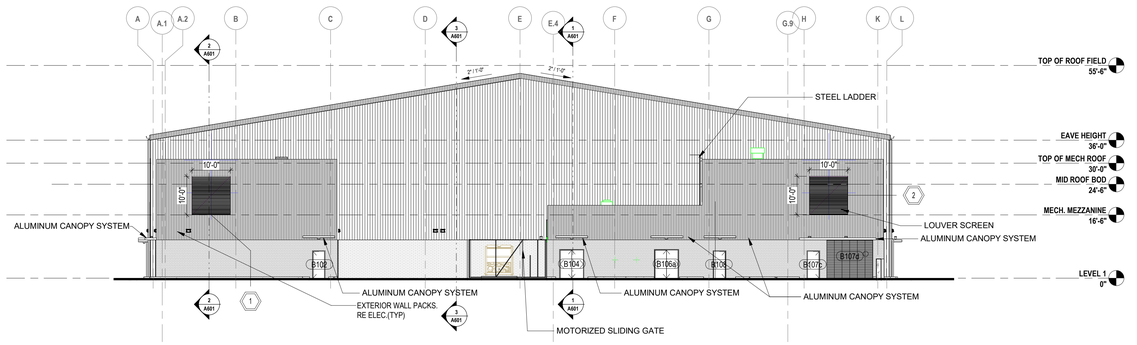
MCM-1
METAL COMPOSITE WALL PANEL
MARKET PEARL WHITE MICA COLOR

MCM-2
METAL COMPOSITE WALL PANEL
RED FIRE COLOR

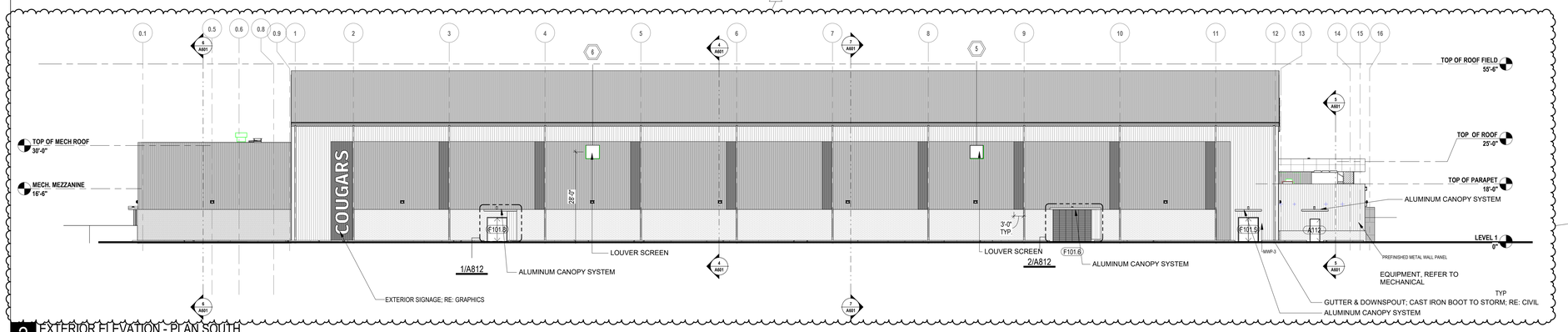
MCM-3
METAL COMPOSITE WALL PANEL
GRAPHITE MICA COLOR



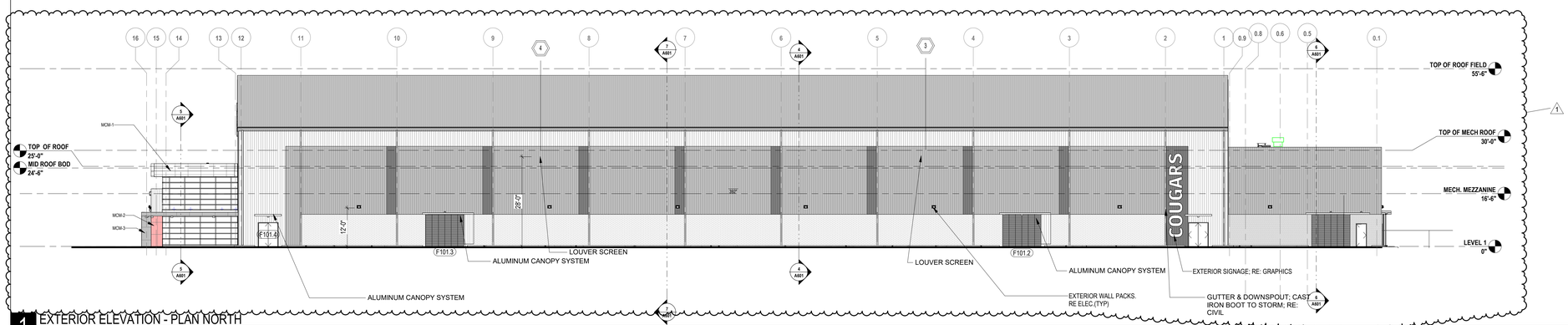
3 EXTERIOR ELEVATION - PLAN EAST
1/16" = 1'-0"



4 EXTERIOR ELEVATION - AREA B2 - PLAN WEST
1/16" = 1'-0"



2 EXTERIOR ELEVATION - PLAN SOUTH
1/16" = 1'-0"



1 EXTERIOR ELEVATION - PLAN NORTH
1/16" = 1'-0"

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B A

KEY PLAN

TRUE NORTH



CLIENT	
TOMBALL ISD	
DATE	PROJECT NUMBER
10/30/2026	25046901

DRAWING HISTORY

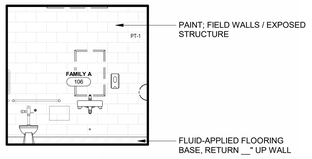
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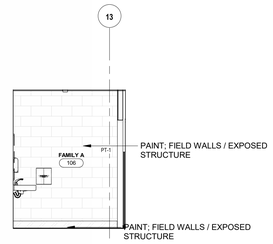
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EXTERIOR ELEVATION - OVERALL

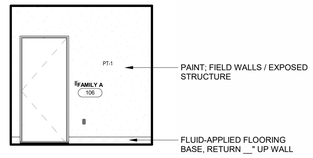
A500



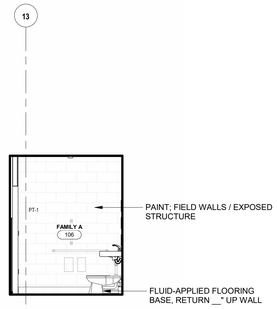
12 FAMILY A- ELEVATION PLAN EAST
1/4" = 1'-0"



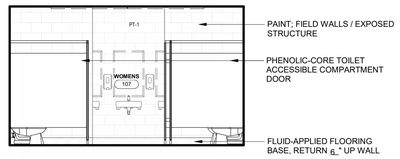
11 FAMILY A - ELEVATION PLAN SOUTH
1/4" = 1'-0"



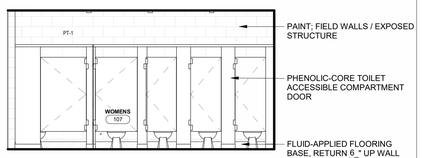
10 FAMILY A - ELEVATION PLAN WEST
1/4" = 1'-0"



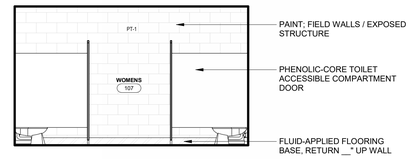
9 FAMILY A - ELEVATION PLAN NORTH
1/4" = 1'-0"



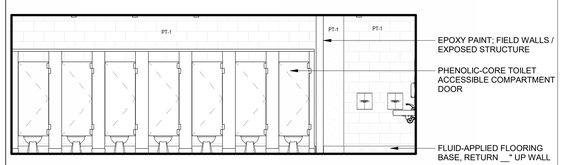
5 WOMEN'S-INTERIOR ELEVATION
1/4" = 1'-0"



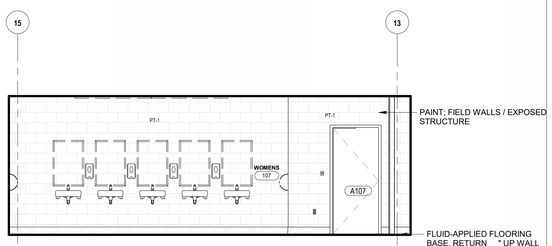
7 WOMEN'S-INTERIOR ELEVATION
1/4" = 1'-0"



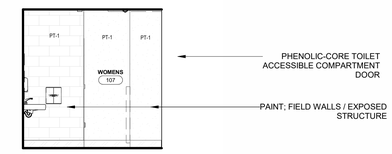
3 WOMEN'S-INTERIOR ELEVATION
1/4" = 1'-0"



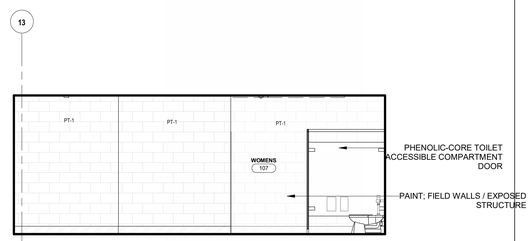
1 WOMEN'S-INTERIOR ELEVATION
1/4" = 1'-0"



4 WOMEN'S-INTERIOR ELEVATION
1/4" = 1'-0"



6 WOMEN'S-INTERIOR ELEVATION
1/4" = 1'-0"



2 WOMEN'S-INTERIOR ELEVATION
1/4" = 1'-0"

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ISSUED FOR PROPOSAL

B A

KEY PLAN

TRUE NORTH

REGISTERED ARCHITECT EDMUND X. RAMIREZ 14374 STATE OF TEXAS

CLIENT	
TOMBALL ISD	
DATE	PROJECT NUMBER
10/30/2026	25046901

DRAWING HISTORY

No.	Description	Date
1	Addendum 1	11/06/26

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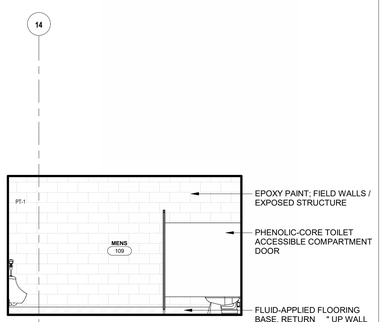
INTERIOR ELEVATIONS

A521

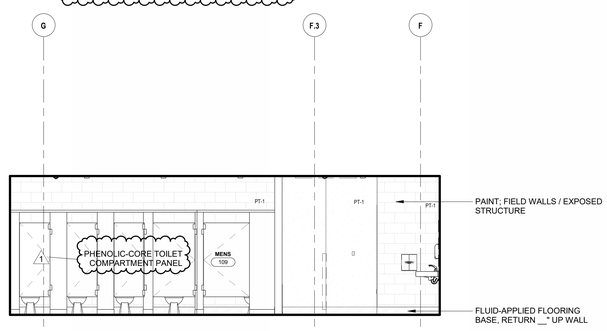
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A522 - INTERIOR ELEVATIONS

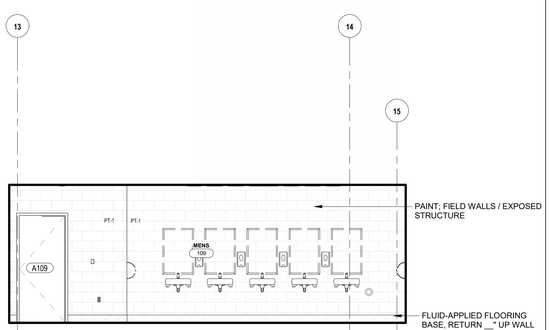
4 MENS RESTROOM
1/4" = 1'-0"



3 MENS RESTROOM
1/4" = 1'-0"



2 MENS RESTROOM
1/4" = 1'-0"



1 MENS RESTROOM
1/4" = 1'-0"

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KEY PLAN

TRUE NORTH

REGISTERED ARCHITECT
EDMUND X. RAMIREZ
14374
STATE OF TEXAS

CLIENT
TOMBALL ISD

DATE	PROJECT NUMBER
10/30/2026	25046901

DRAWING HISTORY

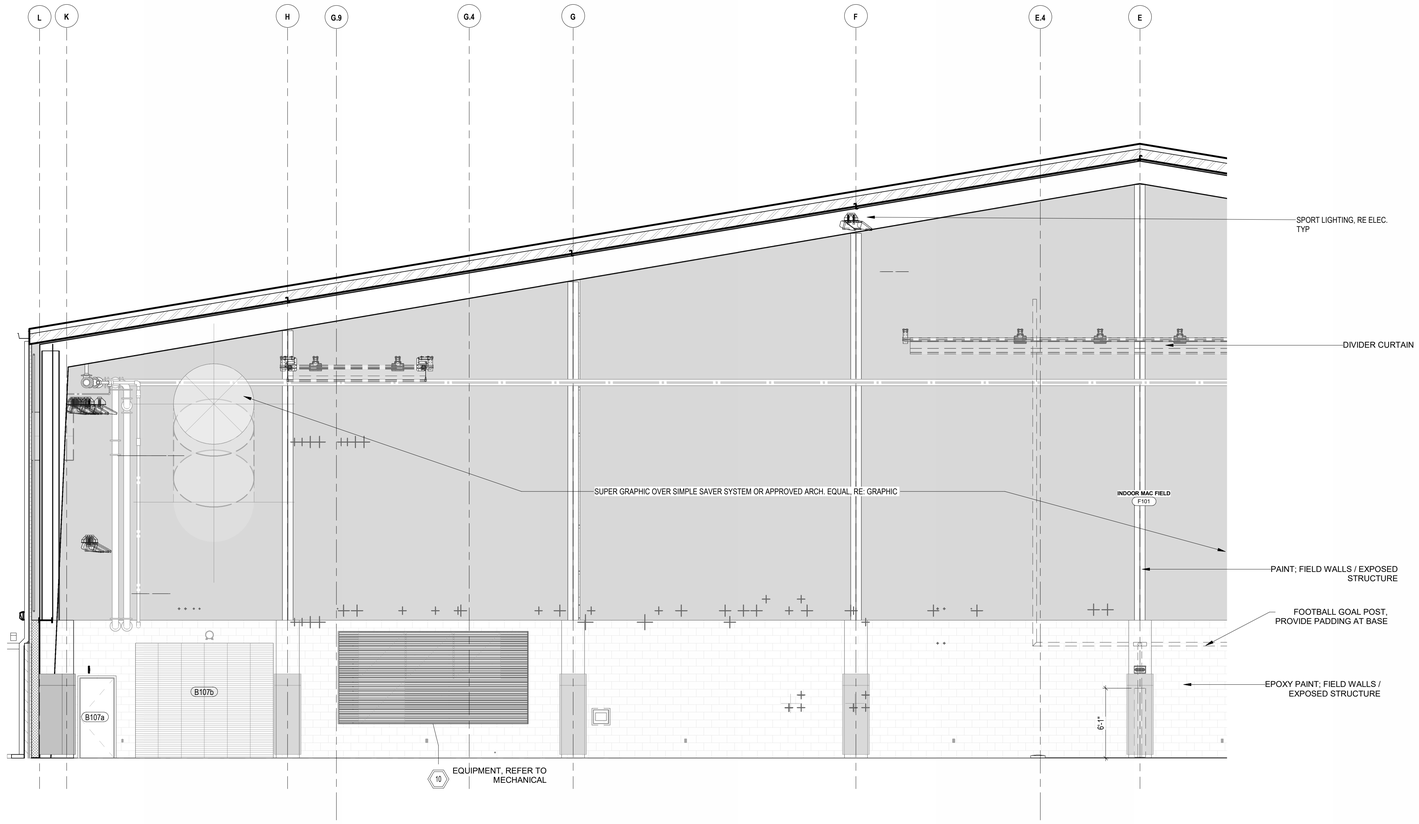
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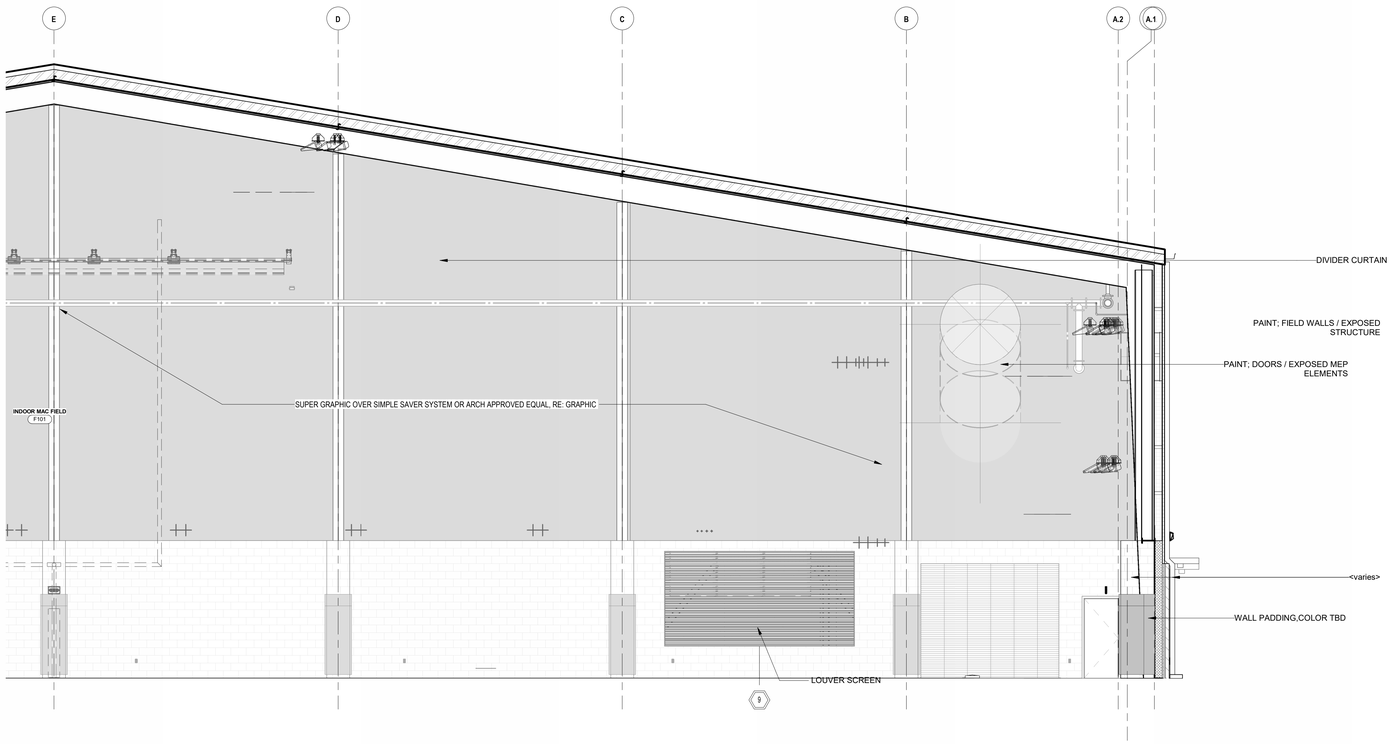
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INTERIOR ELEVATIONS

A522



2 AREA B - ELEVATION PLAN WEST (B)
3/16" = 1'-0"



1 AREA B - ELEVATION PLAN WEST (A)
3/16" = 1'-0"

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KEY PLAN

TRUE NORTH

REGISTERED ARCHITECT EDMUND X. RAMIREZ 14374 STATE OF TEXAS

CLIENT	
TOMBALL ISD	
DATE	PROJECT NUMBER
10/30/2026	25046901

DRAWING HISTORY

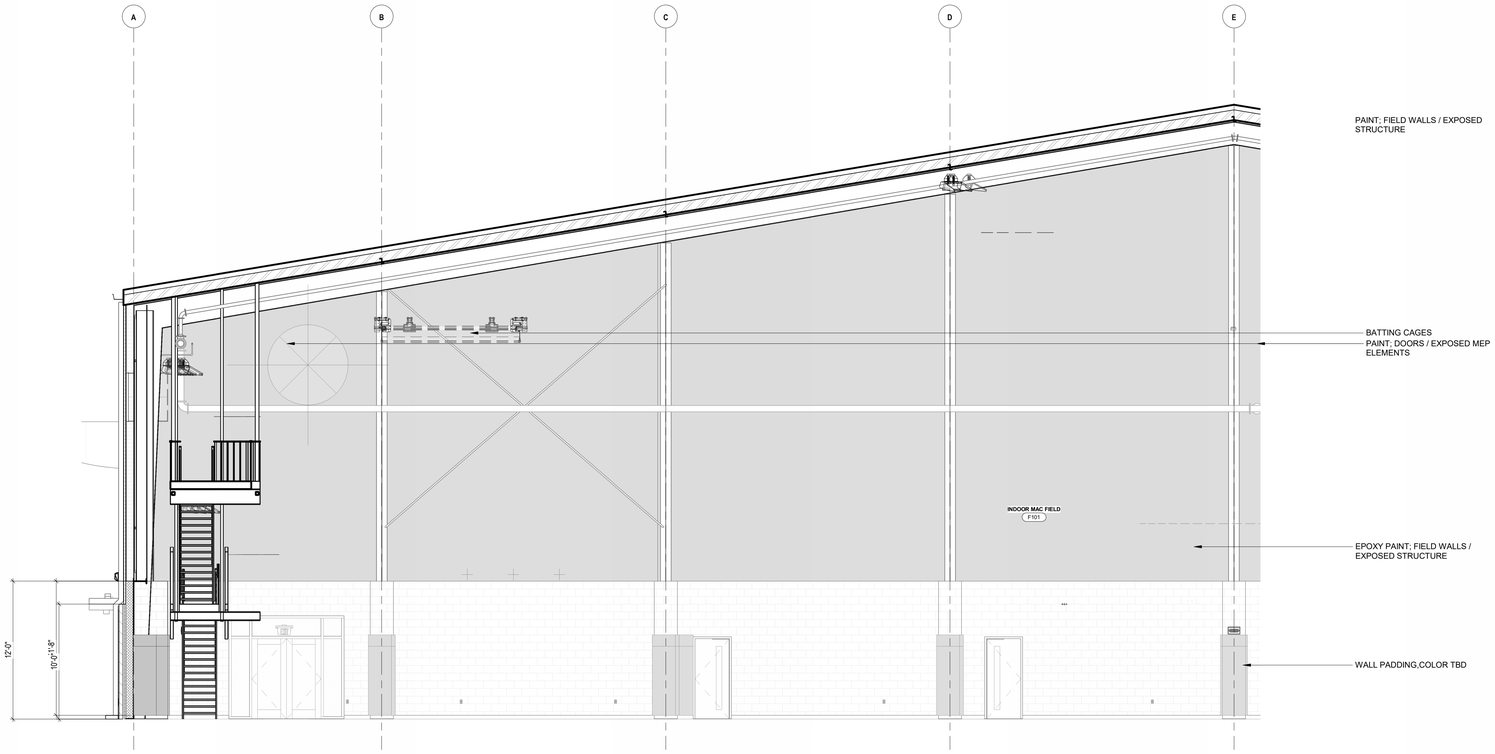
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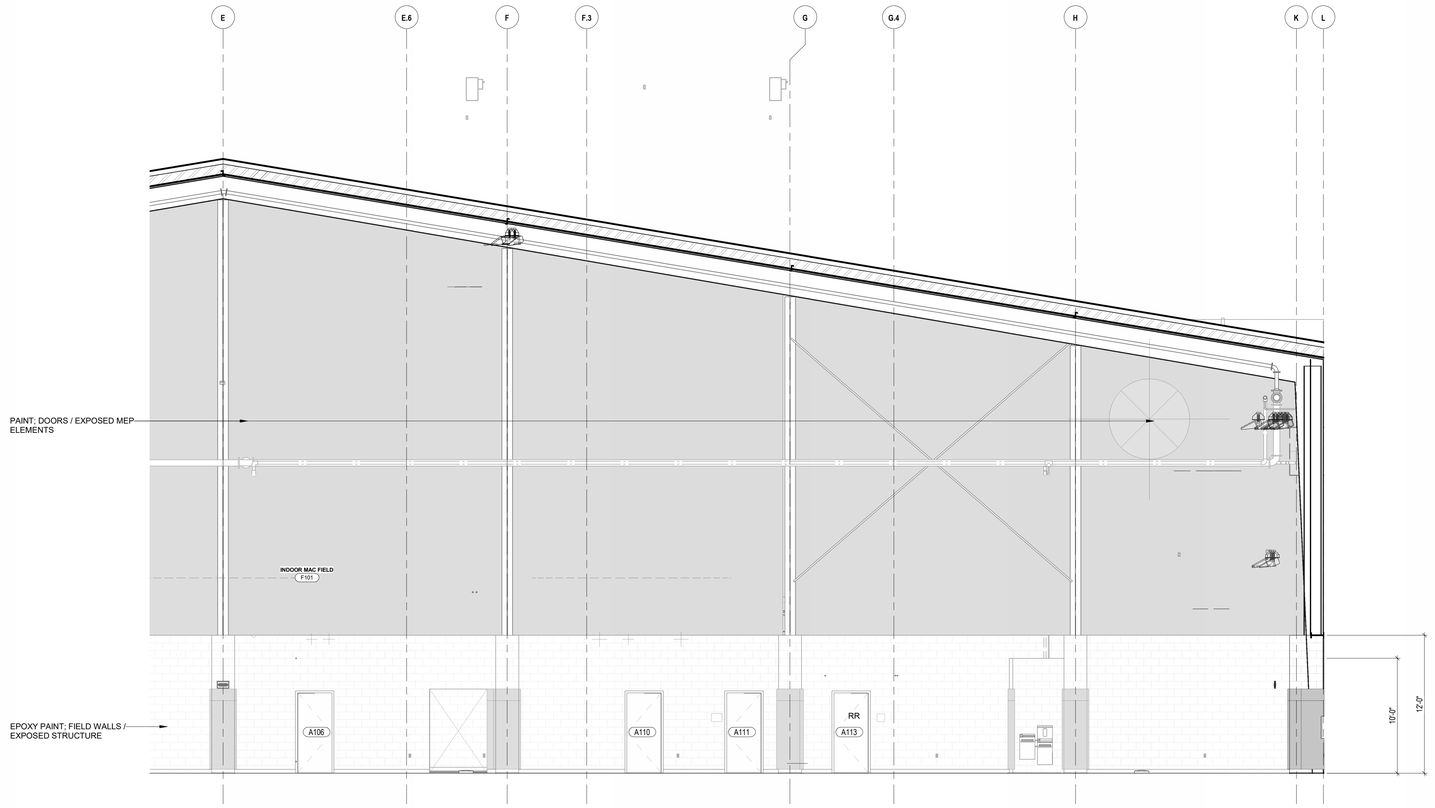
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LEVEL 1 INTERIOR ELEVATIONS AREA B

A525



2 AREA A - ELEVATION PLAN EAST (B)
3/16" = 1'-0"



1 AREA A - ELEVATION PLAN EAST (A)
3/16" = 1'-0"

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KEY PLAN

TRUE NORTH

REGISTERED ARCHITECT EDMOND A. RAMIREZ JR. 1437A STATE OF TEXAS

CLIENT	
TOMBALL ISD	
DATE	PROJECT NUMBER
10/30/2026	25046901

DRAWING HISTORY

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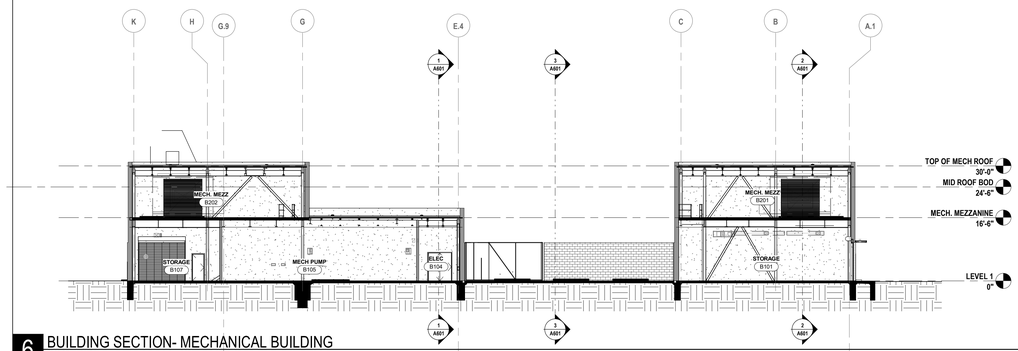
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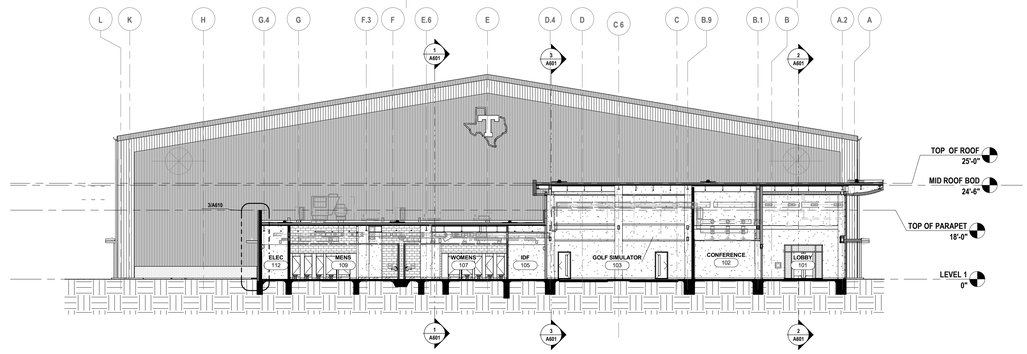
LEVEL 1 INTERIOR ELEVATIONS AREA A

A527

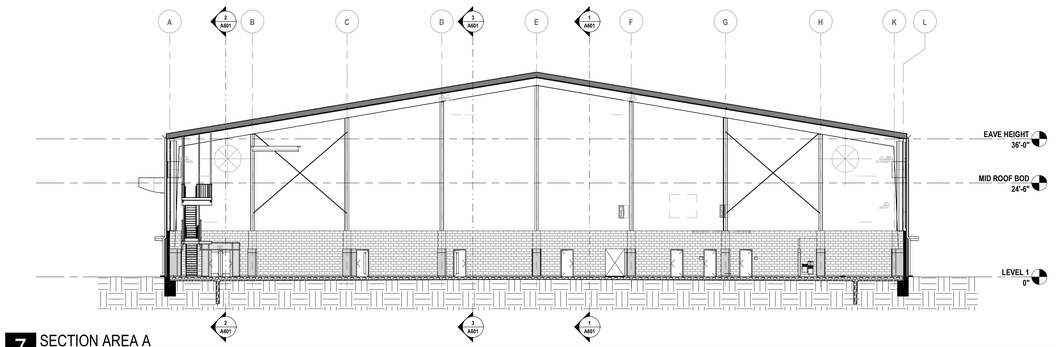
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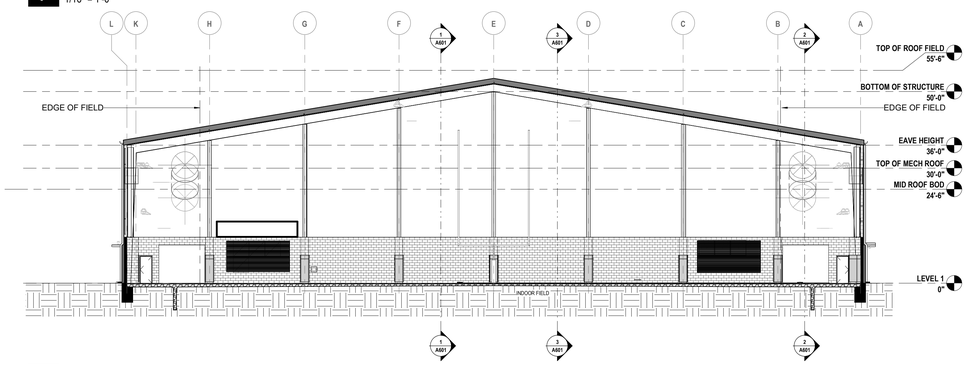
6 BUILDING SECTION- MECHANICAL BUILDING
1/16" = 1'-0"



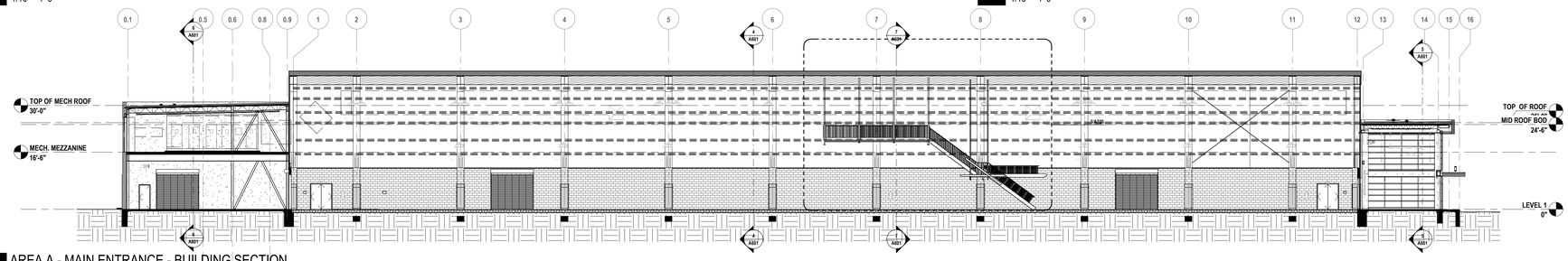
5 BUILDING SECTION- NORTH BUILDING
1/16" = 1'-0"



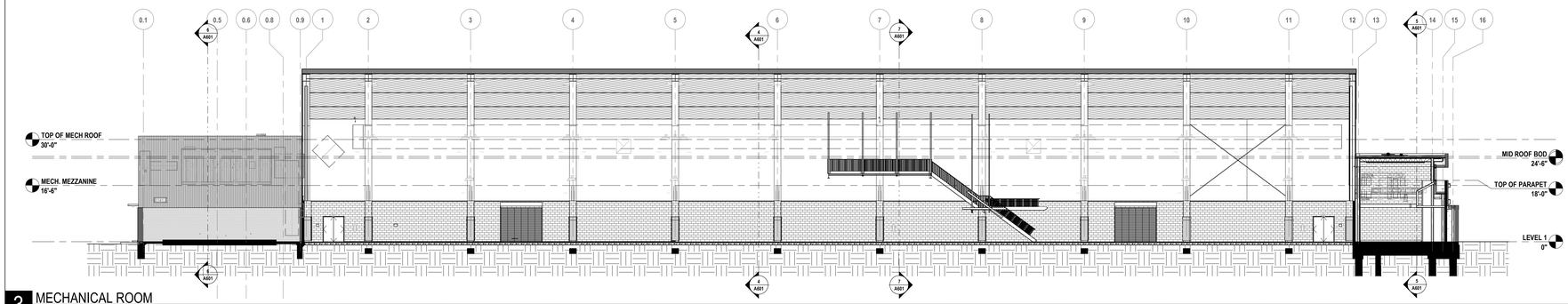
7 SECTION AREA A
1/16" = 1'-0"



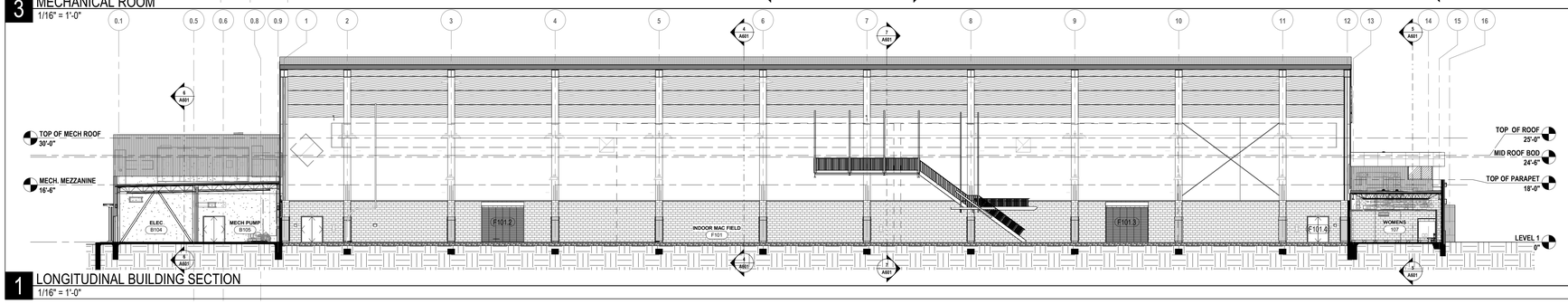
4 BUILDING SECTION - INDOOR FIELD
1/16" = 1'-0"



2 AREA A - MAIN ENTRANCE - BUILDING SECTION
1/16" = 1'-0"



3 MECHANICAL ROOM
1/16" = 1'-0"



1 LONGITUDINAL BUILDING SECTION
1/16" = 1'-0"

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KEY PLAN

TRUE NORTH

REGISTERED ARCHITECT
RAYMOND K. RAMIREZ
#37A
STATE OF TEXAS

CLIENT
TOMBALL ISD

DATE	PROJECT NUMBER
10/30/2026	25046901

DRAWING HISTORY

No.	Description	Date
1	Addendum 1	11/06/26

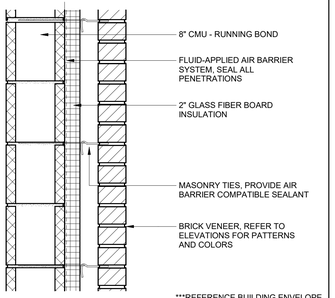
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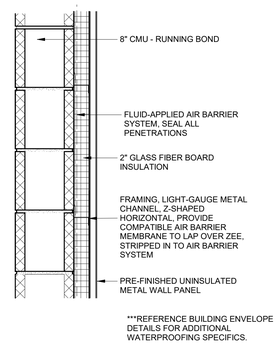
BUILDING SECTIONS

A601

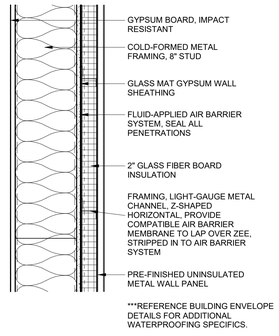
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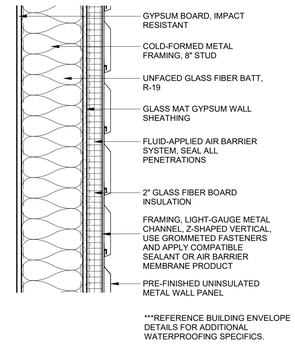
9 EXTERIOR WALL TYPE 'A'
1 1/2" = 1'-0"



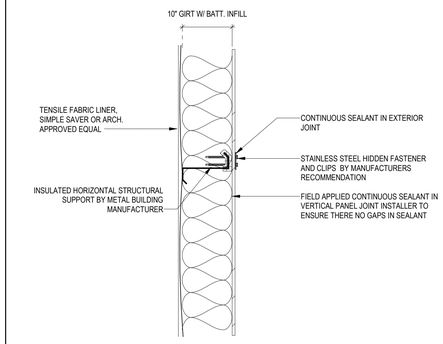
8 EXTERIOR WALL TYPE B
1 1/2" = 1'-0"



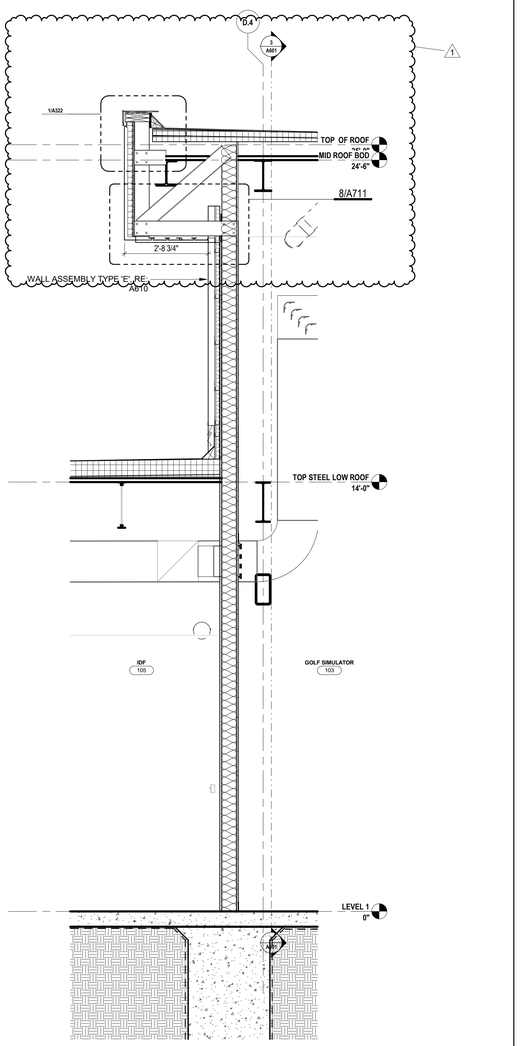
7 EXTERIOR WALL TYPE 'C'
1 1/2" = 1'-0"



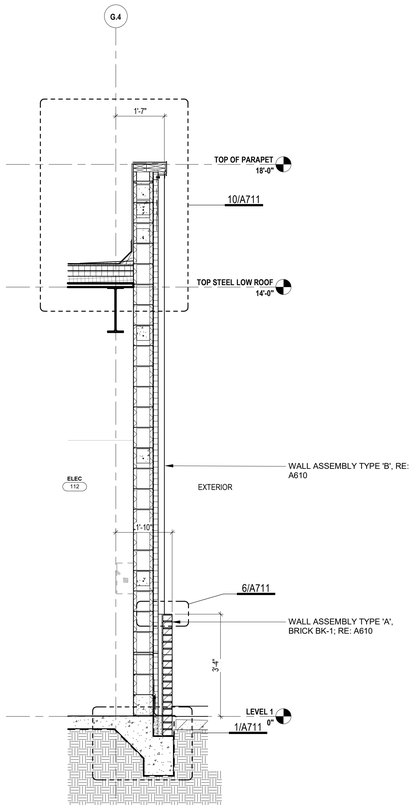
6 EXTERIOR WALL TYPE 'D'
1 1/2" = 1'-0"



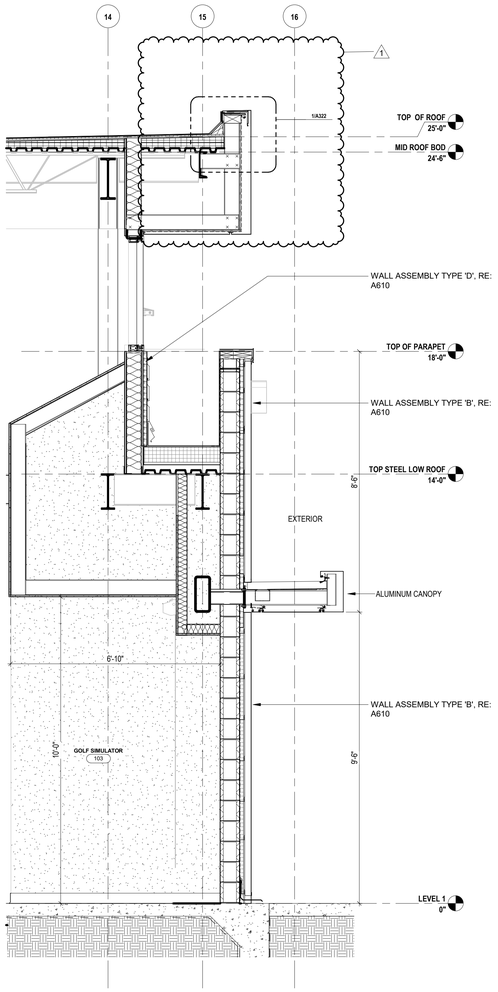
5 EXTERIOR WALL TYPE 'E'- NON INSULATED METAL PANEL
1 1/2" = 1'-0"



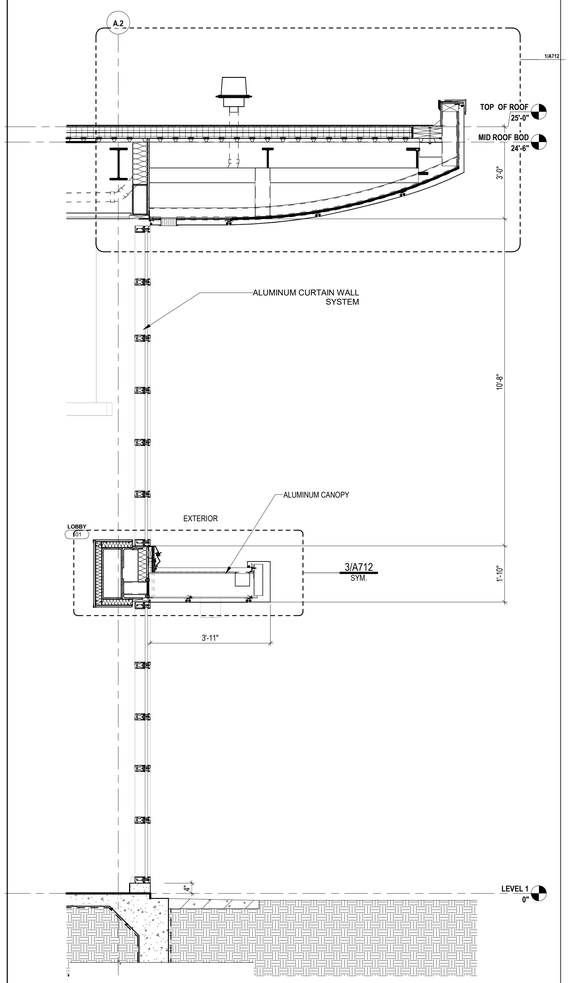
4 TOP GOLF SIMULATOR SECTION
1/2" = 1'-0"



3 WALL SECTION @ ELECTRIAL
1/2" = 1'-0"



2 WALL SECTION @ GOLF SIMULATOR
1/2" = 1'-0"



1 SECTION @LOBBY CURTAIN WALL
1/2" = 1'-0"

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Tomball ISD-Multi-Program Activity Center-Tomball High School

1118 Baker Dr, Tomball, Tx 77375

ISSUED FOR PROPOSAL

B A

KEY PLAN

TRUE NORTH

REGISTERED ARCHITECT EDMUND A. RAMIREZ JR. 14378 STATE OF TEXAS

CLIENT
TOMBALL ISD

DATE	PROJECT NUMBER
10/30/2026	25046901

DRAWING HISTORY

No.	Description	Date
1	Addendum 1	11/06/26

CHECKED BY: Checker

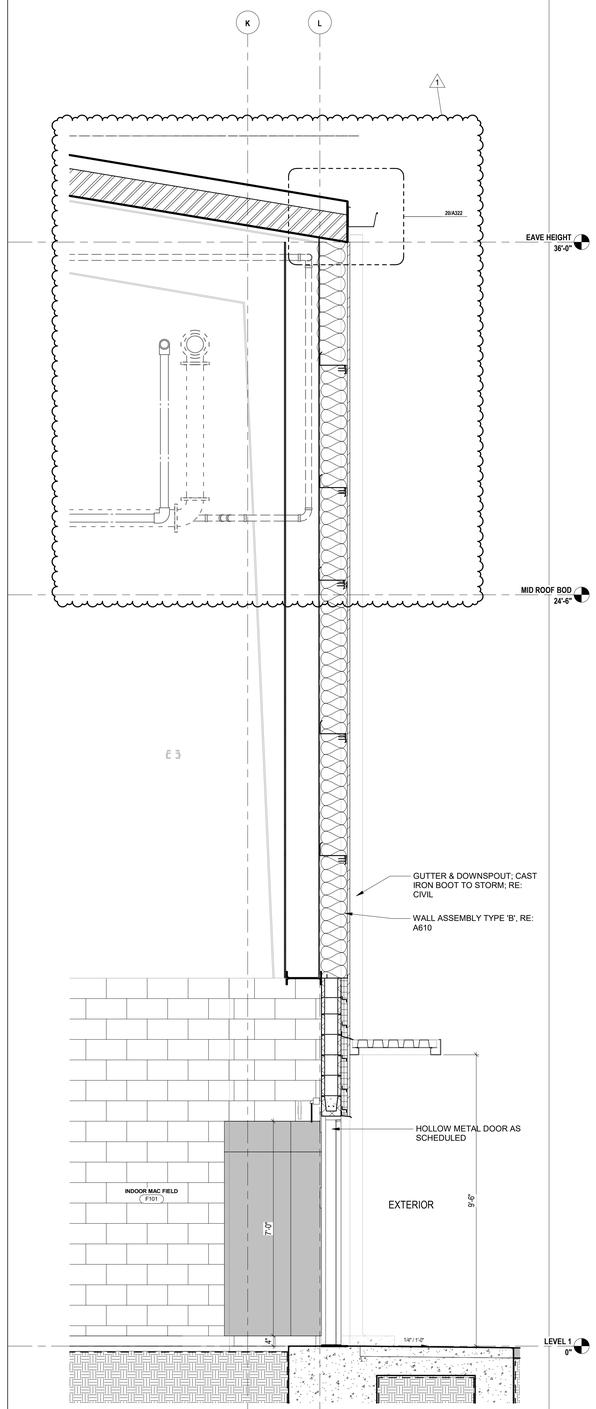
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WALL SECTIONS - AREA A

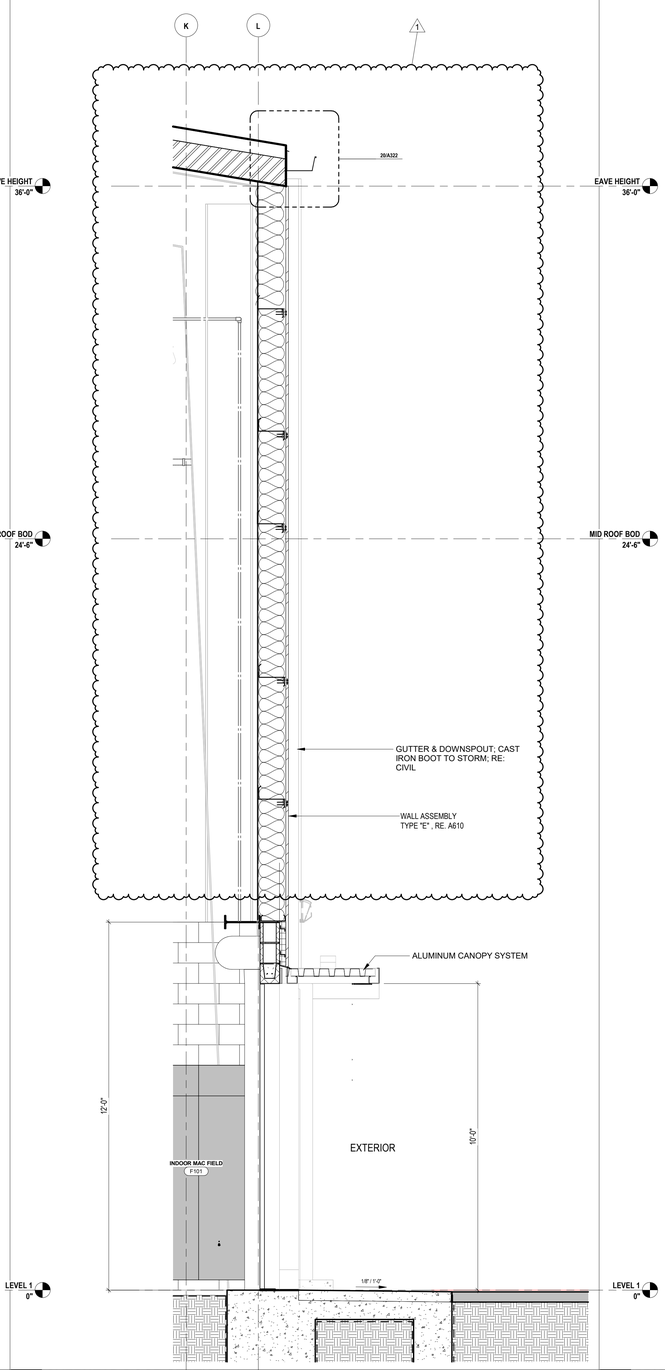
A610

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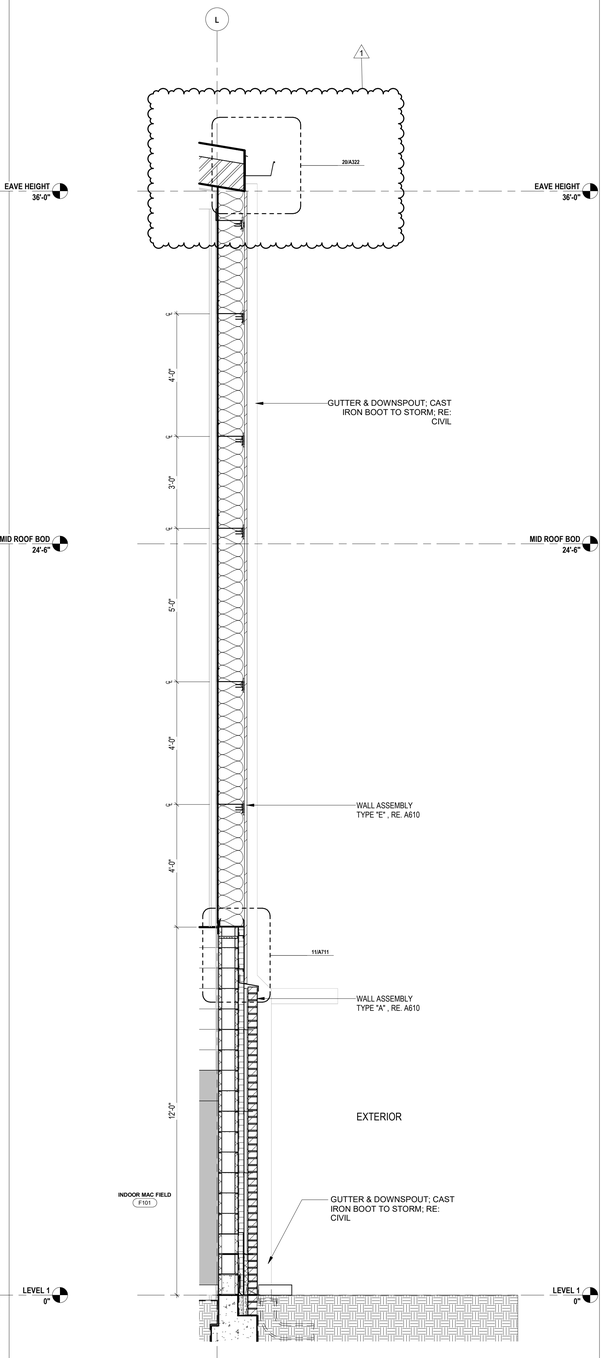
A611 - WALL SECTIONS - AREA A



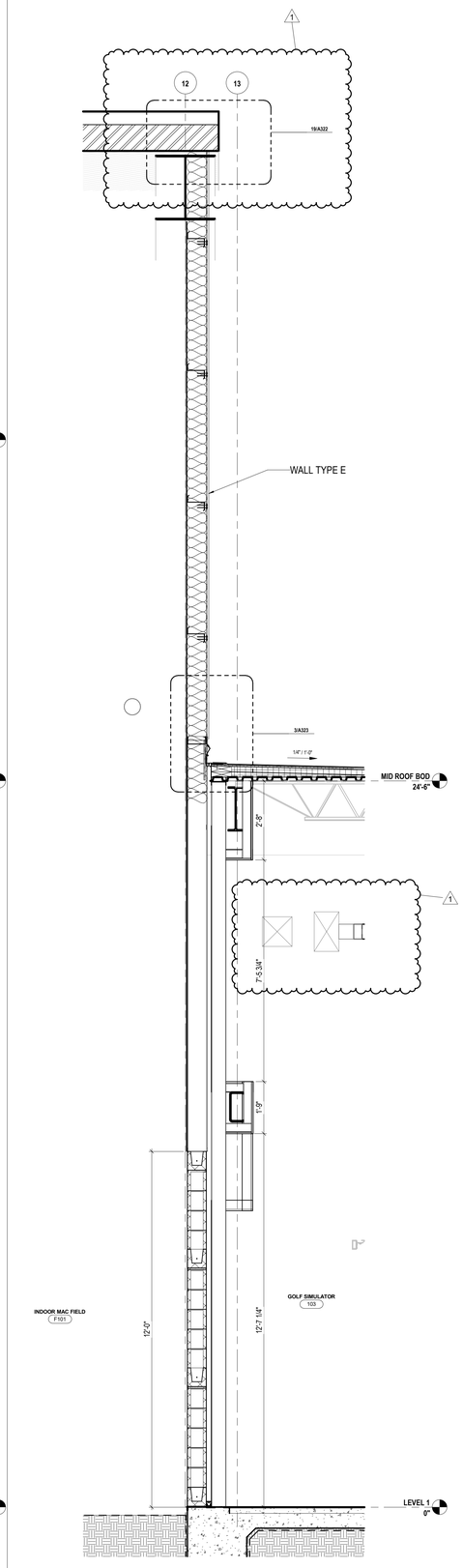
4 HOLLOW MWTAL DOOR SECTION
1/2" = 1'-0"



3 OVERHEAD DOOR SECTION
1/2" = 1'-0"



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



1 METAL PANEL WALL TO LOW ROOF SECTION
1/2" = 1'-0"

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STATE OF TEXAS

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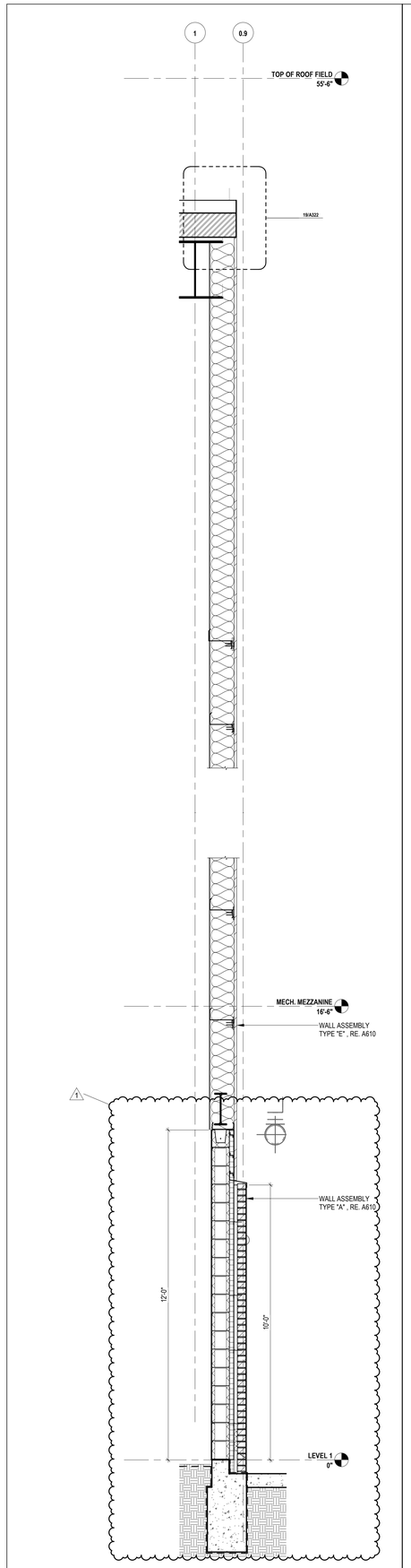
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WALL SECTIONS - AREA A

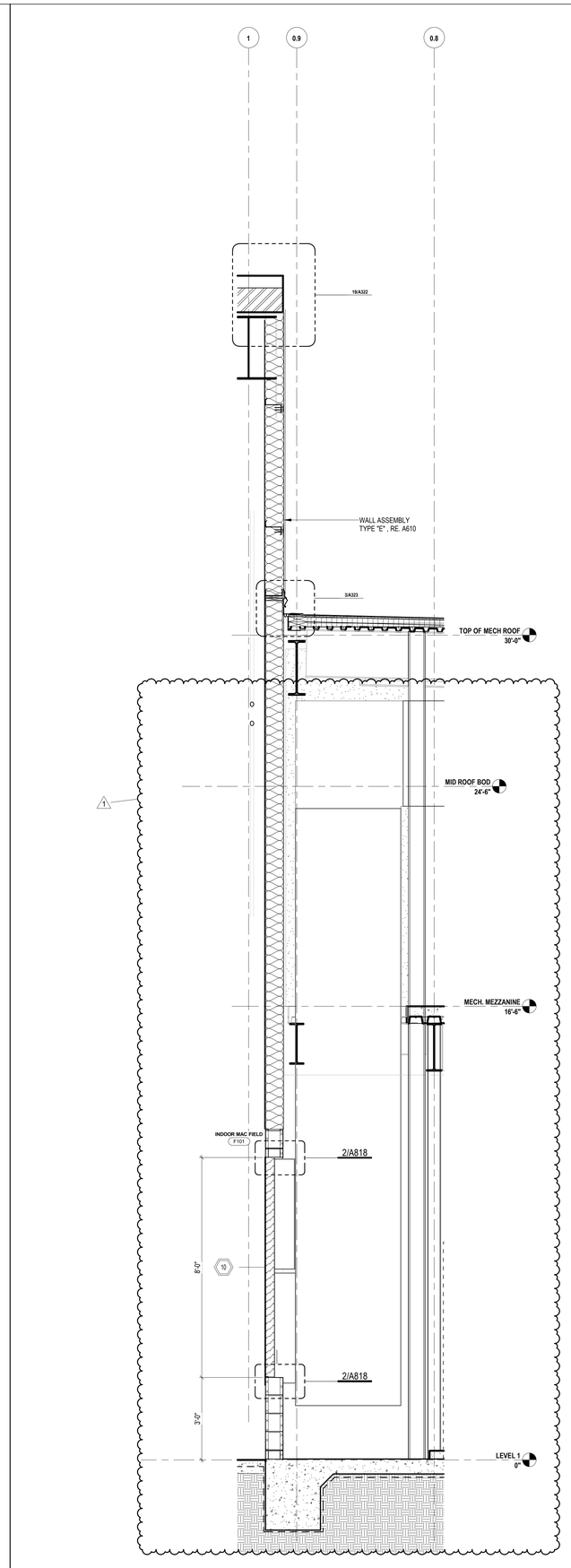
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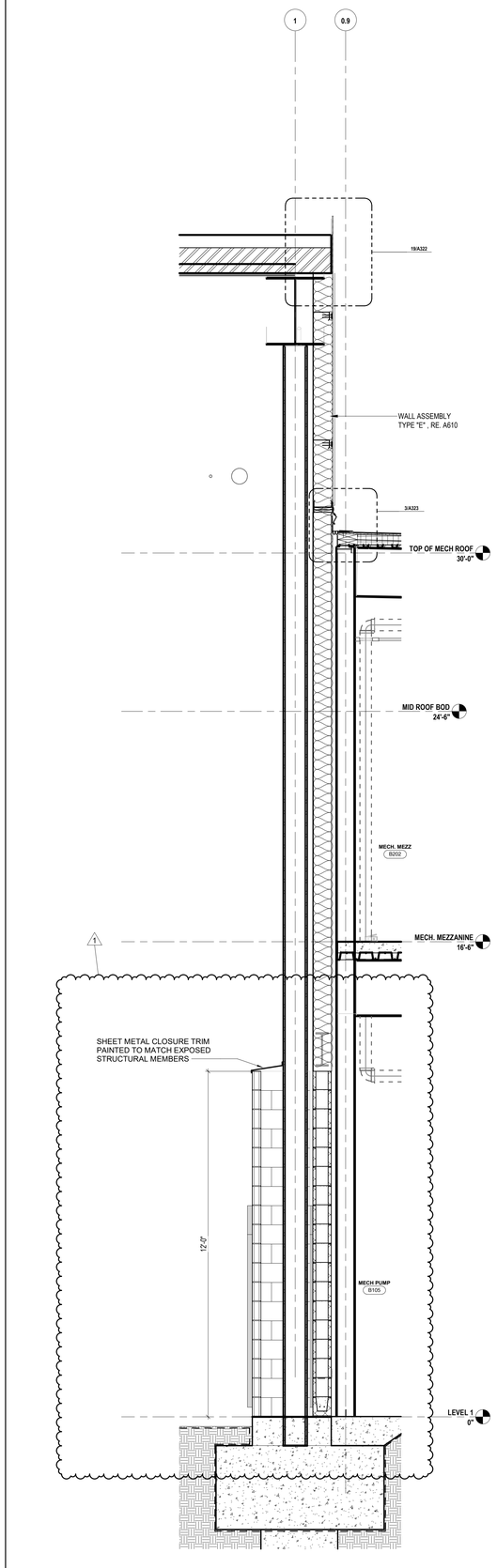
A620 - WALL SECTIONS - AREA B



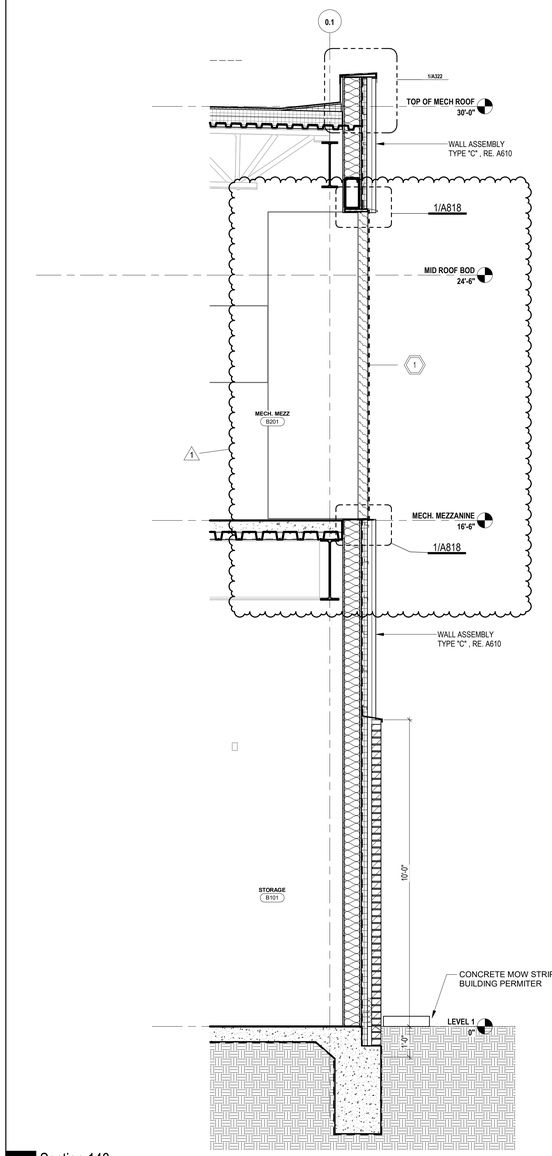
4 Section 132
1/2" = 1'-0"



3 WALL SECTION @ STORAGE WALL
1/2" = 1'-0"



2 Section 154
1/2" = 1'-0"



1 Section 148
1/2" = 1'-0"

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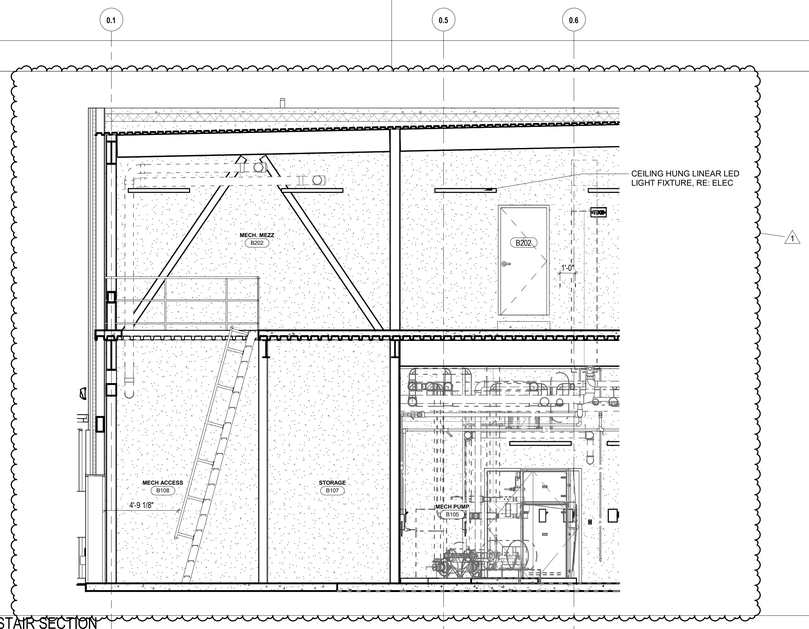
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WALL SECTIONS - AREA B

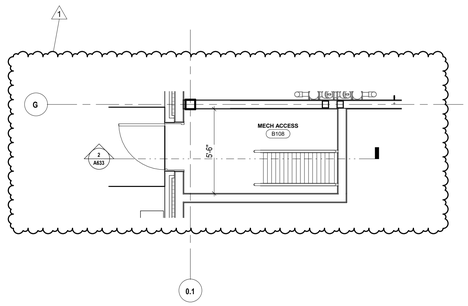
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A633 - STAIR PLAN AND DETAILS



2 MECH MEZZANINE STAIR SECTION
1/4" = 1'-0"



1 MECH MEZZANINE STAIR
1/4" = 1'-0"

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STAIR PLAN AND DETAILS

A633

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