HORD ARCHITECTS
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Date: October 25, 2023
Subject: Trumann Fire Station
801 West Main St., Trumann, Arkansas 72472

Addendum # 1

The following shall be incorporated into the construction documents:

A Roof and Wall Panels
1. As part of the base bid, provide standing seam roof panels. As part of Deductive Alternate No. 3, provide screw-down roof panels shown in original Project Manual Section 13341 – Metal Building Systems.
2. Replace Project Manual Section 13341 – Metal Building Systems, with the attached Section 13341 Revision 1, dated October 25, 2023.

B. Alternate No. 3 - Roof Panels
1. Deductive Alternate No. 3: State the amount to be deducted from the Base Bid to install the originally specified PBR screw-down roof panels in lieu of the Batten-Lok standing seam panels in Article A of Addendum #1. As part of Deductive Alternate No. 3, omit 20 year warranty requirement.

2. Replace the Bid Form with the attached revised Bid Form document.

3. Replace Project Manual Section 01030 – Alternates with the attached revised section dated October 25, 2023.

4. Replace sheet T101 with the attached revised sheet T101, Rev. 1, dated 10-24-2023. Revision is for alternates only.

C. Column Base Plates
1. In lieu of the baseplate details shown in the bid documents, provide the base plate configuration and elevation shown in drawing SUP-S1 dated 10-23-2023, attached hereto.

D. Acoustic Ceiling Tile
1. Replace Project Manual Section 09510 - Acoustical Tile and Gypsum Ceiling Systems, Article 2.01.A.2 with the following:
    2. Type 2 (Men's 108, Women's 109, Men's 116, Women's 117, Decontamination. Laundry 104): Armstrong Clean Room VL, size shown in plans, designed for installation with a 9/16" exposed tee system. The ceiling tile shall have the following characteristics: NRC of 10, a CAC of 40 and a light reflectance of 0.83.

E. Columns at Truck Bay Doors
   1. The HSS6x6 columns supporting the brick lintels at the north wall of the truck bays shall be deducted from the project as part of Deductive Alternate #2.

F. Exhaust Removal System
   1 Sliding aluminum tracks/Expandable hose tracks, and suction rails are not required for the truck bay exhaust removal system.

END OF ADDENDUM # 1

SECTION 13341

METAL BUILDING SYSTEMS

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. Metal Framing Components

B. Metal Screw-Down Wall Panels and Trim

C. Metal Standing Seam Roof Panels and Trim

D. Metal Building Accessories

1.02 RELATED SECTIONS

A. Section 04210 - Brick Masonry: Purlins and metal panels as backup for brick masonry.

B. Section 07600 - Flashing and Sheet Metal: Flashings installed in conjunction with the metal building system, including gutter and downspout components.

C. Section 07920 - Sealants and Caulking: Sealants installed in conjunction with the metal building system.

D. Section 08100 - Hollow Metal Doors and Frames: Hollow Metal door frames installed in conjunction with the metal building system.

E. Section 08630 - Overhead Doors: Overhead doors installed in conjunction with the metal building system.

F. Section 08410 - Aluminum Doors and Windows: Aluminum doors and windows installed in conjunction with the metal building system.

G. Section 09250 - Gypsum Wallboard: Gypsum wallboard and cold formed framing assemblies installed in conjunction with the metal building system.

H. Section 09510 - Acoustic Tile Ceiling Systems: Acoustical ceiling tile grid installed in conjunction with the metal building system.

I. Section 10201 - Building Louvers: Louvers installed in conjunction with the metal building system.

J. Section 001133 - Vehicle Exhaust Removal System: Exhaust system equipment installed in conjunction with the metal building system.

K. Divisions 22, 23, 26: Plumbing, Mechanical and Electrical systems and equipment installed in conjunction with the metal building system.

1.03 REFERENCE STANDARDS

A. American Institute of Steel Construction (AISC)
   1. 360, Specification for Structural Steel Buildings.
   2. RCSC, Specification for Structural Joints Using High Strength Bolts.
   3. Design Guide 3, Serviceability Design Considerations for Steel Buildings

B. American Iron and Steel Institute (AISI)
   1. AISI North American Specification for the Design of Cold-Formed Steel Structural Members

C. American Welding Society (AWS)
   1. AWS D1.1 / D1.1M – Structural Welding Code – Steel.
   2. AWS D1.3 / D1.3M – Structural Welding Code – Sheet Steel

D. Association for Iron & Steel Technology (AISE)
   1. AISE 13 – Specifications for Design and Construction of Mill Buildings.

E. ASTM International (ASTM)
   1. A36 – Standard Specification for Carbon Structural Steel
   2. A123 – Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
   3. A354 – Standard Specification for Quenched and Tempered Alloy Steel Bolts, Studs, and Other Externally Threaded Fasteners
   4. A475 – Specification for Zinc-Coated Steel Wire Strand
   5. A500 – Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes
   6. A529 – Standard Specification for High-Strength Carbon-Manganese Steel of Structural Quality.
   7. A536 – Standard Specification for Ductile Iron Castings.
   8. A563 – Specification for Carbon and Alloy Steel Nuts
   9. A572 – Standard Specification for High-Strength Low-Alloy Columbium-Vanadium Structural Steel.
   10. A653 / A653M – Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
   11. A792 / A792M – Standard Specification for Steel Sheet, 55 % Aluminum-Zinc Alloy-Coated by the Hot-Dip Process
   12. A992 – Standard Specification for Structural Steel Shapes.
   13. A1011 – Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength.
   14. A1039 – Specification for Steel, Sheet, Hot Rolled, Carbon, Commercial, Structural, and High-Strength Low-Alloy, Produced by Twin-Roll Casting Process
   15. E96 / E96M – Standard Test Methods for Water Vapor Transmission of Materials.
   16. E108—Spread-of Flame Testing: Class 1A Rating.
   17. E283 – Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
   18. E331 – Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference.
   19. E1592 – Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference
   20. E1646 – Test Method for Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference
   21. E1680 – Test Method for Rate of Air Leakage Through Exterior Metal Roof Panel Systems
   22. E2140 – Test Method for Water Penetration of Metal Roof Panel Systems by Static Water Pressure Head
   23. F436 – Specification for Hardened Steel Washers
   24. F1145 – Specification for Turnbuckles, Swaged, Welded, Forged
   25. F1554 – Specification for Anchor Bolts, Steel, 36, 55, and 105-ksi Yield Strength
   26. F3125 – Standard Specification for High Strength Structural Bolts

F. IAS – International Accreditation Service

G. SJI – Steel Joist Institute

H. FM Global
   1. FMRC Standard 4471 – Approval Standard for Class 1 Roofs for Hail Damage Resistance, Combustibility, and Wind Uplift Resistance.

I. Metal Building Manufacturers Association (MBMA)
   1. MBMA Metal Building Systems Manual

J. Underwriters Laboratories (UL)
   1. UL 580 – Standard for Tests for Uplift Resistance of Roof Assemblies

1.04 DESIGN REQUIREMENTS

A. General
   1. The building manufacturer will use standards, specifications, recommendations, findings and/or interpretations of professionally-recognized groups such as AISC, AISI, AWS, ASTM, CSA, CWB, MBMA, Federal Specifications, and unpublished research by MBMA as the basis for establishing design, drafting, fabrication, and quality criteria, practices, and tolerances. The Manufacturer's design, drafting, fabrication and quality criteria, practices, and tolerances shall govern, unless specifically countermanded by the contract documents.
   2. Design structural mill sections and built-up plate sections in accordance with:
      a. (US) code-appropriate edition of AISC's "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings", ANSI/AISC 360 ASD method.
      b. (Canada) CSA S16, “Design of Steel Structures”, latest edition.
   3. Cold-Formed steel structural members and panels will generally be designed in accordance with "Specifications for the Design of Cold-Formed Steel Structural Members", ANSI/AISI S-100.
   4. Design weldments per the following:
      a. Structural Welding
         1) (US) Design per AWS D1.1, “Structural Welding Code – Steel”, Latest Edition.
         2) (Canada) Design per CWB W59, “Welded Steel Construction (Metal Arc Welding)”, Latest Edition.
      b. Cold-Formed Welding
         1) (US) Design per AWS D1.3, “Structural Welding Code – Sheet Steel”, Latest Edition.
         2) (Canada) Design per CWB W59, “Welded Steel Construction (Metal Arc Welding)”, Latest Edition.

B. Design Code
   1. Refer to the Construction Drawings for Design Code requirements.

C. Design Loads
   1. Refer to the Structural Engineering drawings for all design loads.

D. General Serviceability Limits
   1. Deflection Limits shall be in accordance with the applicable provisions of the Metal Building Systems Manual (MBMA), latest edition.
   2. Vertical deflection limits shall comply with the design loads in the Construction Drawings.

E. Signage
   1. Signage, including manufacturer’s identifying signs or labels, shall not be affixed to the building in any location.

1.05 SUBMITTALS

A. Submit under provisions of Section 01340.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
   1. Preparation instructions and recommendations.
   2. Storage and handling requirements and recommendations.
   3. Installation methods.

C. Shop Drawings: Provide complete erection drawings for the proper identification and assembly of all building components. Drawings will show anchor bolt settings, transverse cross-sections, sidewall, endwall and roof framing, flashing and sheeting, and accessory installation details.

D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.

E. Verification Samples: For each finish product specified, two samples, representing actual product, color, and patterns.

F. Certifications: Shop drawings and design analysis shall bear the seal of a Professional Engineer, registered in the state of Arkansas. Design analysis shall be on file and furnished by manufacturer with the shop drawings.

G. Bill of Materials: Bills of material shall be furnished and shall include item weights.

H. Preventive Maintenance Manual.

I. Welder's Certifications: Certification of welder qualifications shall be furnished as specified by the Project Engineer.

J. Submit certification verifying that the metal roof system has been tested and approved by Underwriter's Laboratory as Class 90.

K. Submit certification verifying that the metal standing seam roof system has been tested in accordance with ASTM E 1592 test protocols.

1.06 QUALITY ASSURANCE

A. Manufacturer / Fabricator Qualifications:
   1. (US) All primary products specified in this section will be supplied by a single IAS AC 472 Accredited Manufacturer /Fabricator with a minimum of five (5) years' experience.
   2. (Canada) All primary products specified in this section will be supplied by a single Manufacturer / Fabricator certified by the CAN/CSA A660-10, "Certification of Manufacturers of Steel Building Systems" program.

B. Weldments/Welder/Weld Inspection Qualifications
   1. (US) Welding inspection and welding inspector qualification for structural steel shall be in accordance with AWS D1.1, "Structural Welding Code – Steel", latest edition. Welding inspection and welding inspector qualification for cold-formed steel shall be in accordance with AWS D1.3, "Structural Welding Code – Sheet Steel", latest edition.
   2. (Canada) The metal building manufacturer shall be certified per CWB W47.1, "Certification of Companies for Fusion Welding of Steel", latest edition.

C. Erector Qualifications: All products listed in this section are to be installed by a single installer with a minimum of five (5) years demonstrated experience in installing products of the same type and scope as specified.

D. Design: Standard drawings and design analysis must bear the seal of a registered professional engineer. Design analysis must be on file and furnished by manufacturer upon request.

1.07 DELIVERY, STORAGE AND HANDLING

A. Delivery and Acceptance Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

B. Storage and Handling Requirements
   1. Store and handle materials in accordance with manufacturer's instructions.
   2. Keep materials in manufacturer's original, unopened containers and packaging until installation.
   3. Do not store materials directly on ground.
   4. Store materials on flat, level surface, raised above ground, with adequate support to prevent sagging.
   5. Protect materials and finish during storage, handling, and installation to prevent damage.

C. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

D. Store and dispose of hazardous materials, and materials contaminated by hazardous materials, in accordance with requirements of local authorities having jurisdiction.

1.08 WARRANTY

A. Building System Warranty
   1. Furnish manufacturer's standard warranty for the metal building system, excluding paint.
   2. The manufacturer shall warrant the metal building system against failure due to defective material or workmanship for a period of one (1) year from date of shipment.
   3. The liability under this warranty shall be limited to furnishing, but not dismantling or installing, necessary replacement material F.O.B. manufacturer's plant. In no event shall the manufacturer be liable for loss of profits, or other incidental, consequential, or special damages.

B. Roof Weathertightness Warranty
   1. Furnish manufacturer's weathertightness warranty for a maximum of 20 years against leaks in roof panels, arising out of or caused by ordinary wear and tear under normal weather and atmospheric conditions.

C. Roof and Wall Paint Finish Warranty
   1. Paint Systems
      a. Furnish manufacturer's standard warranty for the metal panel paint system against chipping, peeling, blistering, fading in excess of 5 NBS Hunter units as set forth in ASTM-D-2244, and chalking in excess of 8 units as set forth in ASTM-D-4214.
      b. The warranty shall be for a period of 30 years from the date of shipment for PVDF paint systems.
      c. The warranty shall be for a period of 25 years from the date of shipment for silicone-polyester paint systems.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Acceptable Manufacturers
   1. American Buildings; http://www.americanbuildings.com
   2. CBC Steel Buildings; http://www.cbcsteelbuildings.com
   3. Kirby Building Systems; http://www.kirbybuildingsystems.com
   4. Nucor Building Systems; http://www.nucorbuildingsystems.com

B. Substitutions submitted in accordance with section 01600 will be reviewed by the Architect/Engineer.

2.02 MATERIALS

A. Primary Framing Steel
   1. Steel for hot rolled shapes must conform to the requirements of ASTM A36, A572 or A992, with minimum yield of 36 or 50 ksi, respectively.
   2. Steel for built-up sections must conform to the requirements of ASTM A1011, A1018, A529, A572 or A36 as applicable, with minimum yield of 36, 50, or 55 ksi as indicated by the design requirements.
   3. Round Tube must conform to the requirements of ASTM A-500 Grade B with minimum yield strength of 42 ksi.
   4. Square and Rectangular Tube must conform to the requirements of ASTM A500 Grade B with a minimum yield strength of 46 ksi.
   5. Steel for Cold-Formed sections must conform to the requirements of ASTM A1011 or A1039 Grade 55, or ASTM A653 Grade 55 with minimum yield strength of 55 ksi.

6. X-bracing will conform to ASTM A529 for rod bracing, ASTM A992 for angle bracing or ASTM A475 for cable bracing.
7. At the Offices & Dormitory section of the building, the clear inside height to the haunch of the column and rafter of the main frames shall be above the ceilings of the occupied spaces.

B. Secondary Framing Steel
1. Steel used to form purlins, girts and eave struts must meet the requirements of ASTM A1011 or ASTM A1039 Grade 55 for primed material or ASTM A653 Grade 55 for galvanized material with a minimum yield of 55 ksi.
2. Design Thicknesses – Gauge to be determined by design to meet specified loading conditions.

C. Panels
1. Roll-formed Galvalume®, pre-painted Galvalume® or Galvanized G90 Exterior-Side and G60 Interior-Side. In Canada, Galvanized panel will have a coating thickness of G90 on both sides.
2. Through-fastened panels must have:
   a. 50 percent minimum aluminum-zinc alloy coating and conform to ASTM A792 or ASTM A653 with a minimum yield of 50 ksi.
3. Panel Finish
   a. PVDF Finish: 70% PVDF paint system with 20 year standard warranty.
4. Panel Profiles
   a. Roof Panels: Standing-Seam, Batten-Lok, 24-gauge panels, with 2” high vertical seams, and 16” rib spacing, as manufactured by MBCI.
   b. Wall Panels: Exposed Fastener, PBR, 26-gauge panels, 36” wide, with 12” typical rib spacing, as manufactured by MBCI.

D. Panel Fasteners
1. For Galvalume® and Painted finished roof panels: Long Life Cast Zinc head.
2. For wall panels: Coated carbon steel.
3. Color of exposed fastener heads to match the wall and roof panel finish.
4. Concealed Fasteners: Self-drilling type, of size required.

E. Flashing and Trim: Match material, finish, and color of adjacent components. Provide trim at rakes, including peak and corner assemblies, high and low eaves, corners, bases, framed openings and as required or specified to provide weathertightness and a finished appearance.

F. Roof Clips
1. All clips must have factory-applied mastic and designed so that movement between the panel and the clip does not occur.
2. Short or Tall Fixed clips; shall be either 3 ½ inches (89mm) or 4 ½ inches (114mm) in height. Used for applications where only a moderate amount of thermal expansion and contraction in the roof panel is expected.
3. Short or Tall Sliding clips: shall be either 3 ½ inches (89mm) or 4 ½ inches (114mm) in height and provide either 1-7/8 inches from neutral position or 3 3/4 total inches of travel for panel thermal expansion and contraction, depending on clip choice.
4. Super Tall Sliding clips: shall be 5 ½ inches (140mm) in height and provide either 1-7/8 inches from neutral position or 3 3/4 total inches of travel for panel thermal expansion and contraction.

G. Sealant And Closures
1. Sidelaps: Factory applied non-skinning Butyl mastic.
2. Endlaps, Eave, Ridge Assembly, and Gable Flashings: Field applied 100% solids butyl-based elastomeric tape sealant, furnished in pre-cut lengths.
3. Outside Closures: Closed-cell, plastic or metal
4. Inside Closures: Closed-cell, plastic or metal

H. Thermal Insulation
   1. Walls: Vinyl faced batts, R-19 minimum thermal value.
   2. Roof: Vinyl faced batts, full depth “Simple Saver” type, R-30 minimum thermal value.

2.03 PRIMARY FRAMING

A. Rigid Frames: Fabricated as welded built-up "I" sections or hot-rolled sections.
   1. Frame Design: Gable Symmetrical.
   2. Frame Design: Gable Unsymmetrical.
   3. Frame Design: Single Slope.
   4. Frame Design: Lean-To.
   5. Frame Type: Clear-Span.
   6. Frame Type: Multi-Span.

B. Rigid Frame Columns
   1. Straight/Uniform depth
   2. Tapered

C. Rigid Frame Rafters
   1. Straight/Uniform depth
   2. Tapered

D. Endwall Frames / Roof Beams: Fabricated as mill-rolled sections or built-up "I" sections depending on design requirements. Fabricate endwall columns of cold-formed sections, mill-rolled sections, or built-up "I" sections depending on design requirements.

E. Interior Columns: Columns supporting rafters of mainframes shall be of the following cross-section type(s):
   1. Pipe (Round HSS).
   2. Tube (Square HSS).
   3. "I"-Shaped (Built-Up or Mill-Rolled depending on design requirements).

F. Finish: Red-Oxide or Gray Primer, or galvanized (pre coated galvanized cold-form, hot-dipped otherwise).

G. Field Bolted Connections: All field bolted connections shall be designed and detailed utilizing ASTM F3125 Grades A325 or A490 as required by design.

2.04 SECONDARY FRAMING

A. Purlins and Girts: Purlins and girts shall be cold-formed "Z" or “C” sections with stiffened flanges. Flange stiffeners shall be sized to comply with the requirements of the latest edition of AISI S100. They shall be pre-punched at the factory to provide for field bolting to the rigid frames. They shall be simple or continuous span as required by design. Connection bolts will install through the purlin/girt webs, not purlin/girt flanges.

B. Purlins (Excluding Open Web Joists): Horizontal structural members which support roof coverings.
   1. Depth: To be determined by design (8”, 9.5”, 10” or 12”)
   2. Maximum Length: To be determined by design.
   3. Finish: Red Oxide Primer.
   4. Finish: Gray Primer.
   5. Finish: Pre-Coated Galvanized.

C. Girts: Horizontal structural members that support vertical panels.
   1. Depth: To be determined by design (8”, 9.5”, 10”, or 12”)
   2. Maximum Length: To be determined by design.
   3. Finish: Red Oxide Primer.
   4. Finish: Gray Primer.
   5. Finish: Pre-Coated Galvanized.

D. Eave Struts: Equal flange, cold-formed "C" sections or “Z” purlins.
   1. Depth: To be determined by design (8”, 9.5”, 10” or 12”)
   2. Maximum Length: To be determined by design.
   3. Finish: Red Oxide Primer.
   4. Finish: Gray Primer.
   5. Finish: Pre-Coated Galvanized.

E. Base Framing: Base members to which the base of the wall covering may be attached to the perimeter of the slab. Secured to the concrete slab with mechanical anchors.
   1. Formed base sill.
   2. Base channel.
      a. With flashing.
      b. Without flashing.
   3. Base angle.
      a. With flashing.
      b. Without flashing.
   4. Base girt.
      a. With flashing.
      b. Without flashing.
   5. Finish: Red Oxide Primer.
   6. Finish: Gray Primer.
   7. Finish: Pre Coated Galvanized.
   8. Roof Joist Flange Brace attachment
      a. Fully Bolted (no welding required)
      b. Welded

2.05 ROOF PANELS

A. Batten-Lok, standing-seam panel, as manufactured by MBCI:
   1. Gauge: 24
   2. Dimensions: 36 inches, with 2” high ribs, and 16” rib spacing
   3. Finish/Color: As specified in Article 2.8 PANEL FINISH, Color by Architect.

2.06 WALL PANELS

A. PBR panel, with 9” rib spacing, as manufactured by MBCI, through fastened sidewall panel.
   1. Gauge: 26
   2. Dimensions: 36 inches, with 12” rib spacing
   3. Finish/Color: As specified in Article 2.8 PANEL FINISH, Color by Architect.

2.07 ACCESSORIES

A. Roof Line Trim
   1. Basic Sculptured Trim Type: Low-Eave Gutter (on slope or horizontal) / Sculptured Rake Trim

B. Framed Openings: Used to frame out doors, windows, louvers, and any other openings. Refers to the framing members and flashing which surround an opening and includes jambs, header and or sill, trim, and fasteners.

C. Soffit Panels
   1. Flush panels without raised ribs.
      a. Gauge: 24
      b. Dimensions: 36 inches
      c. Finish: As specified in Article 2.8 PANEL FINISHES, Color by Architect.

D. Pipe Flashings: Pipe flashing shall be of a one piece construction and fabricated from an EPDM membrane and shall have an aluminum base that can be field conformed to any panel configuration. Pipe flashings shall be flexible for mounting on any roof slope. Service temperature ranges shall be from -30°F to +250°F. Three standard flashing sizes shall accommodate pipe sizes from 1/4" diameter up to 13" diameter.
   1. Size: ¼" to 4" (6 to 102mm) Pipe
   2. Size: 4" to 7" (102 to 178mm) Pipe
   3. Size: 7" to 13" (178 to 330mm) Pipe

E. Gutters and Downspouts
   1. Provide gutters and downspouts as shown in the drawings and specified in section 07600.

2.08 PANEL FINISHES

A. Roof Panel
   1. Galvalume® (GM)
   2. PVDF Panel Paint System (PVDF Resin, 20-year Finish Warranty)
      a. Color: Standard color selected by Architect.

B. Wall Panel
   1. PVDF Panel Paint System (PVDF Resin, 20-year Finish Warranty)
      a. Color: Standard color selected by Architect.

C. Soffit Panel
   1. PVDF Panel Paint System (PVDF Resin, 20-year Finish Warranty)
      a. Color: Standard color selected by Architect.

2.09 FABRICATION

A. General
   1. Shop-fabricate all framing members for field bolted assembly. The surfaces of the bolted connections must be smooth and free from burrs or distortions.
   2. Shop connections must conform to the manufacturer's standard design practices as defined in this section. Certification of welder qualifications will be furnished when required and specified in advance.
   3. All framing members must carry an identifying mark.

B. Primary Framing
   1. Plates, Stiffeners and Related Members: Factory weld base plates splice plates, cap plates, and stiffeners into place on the structural members.
   2. Bolt Holes and Related Machining: Shop fabricate base plates, splices and flanges to include bolt connection holes. Shop fabricated webs to include bracing holes.
   3. Secondary structural connections (purlins and girts) to be ordinary bolted connections, which may include welded clips.
   4. Manufacturer is responsible for all shop welding inspection in accordance with the manufacturer's IAS Accreditation or CAN/CSA A660 Certification. Special inspection by the buyer or owner may be done in the manufacturer's facility and must be noted on the Contract Documents.
   5. Non-Destructive Testing (NDT) - NDT shall be performed and documented as required by the governing building code for this project.

C. Open-Web Roof Joists
   1. Secondary framing for 'long-bay' building layouts shall consist of open-web bar joists designed under Steel Joist Institute (SJI) specifications by an SJI-Certified Joist Manufacturer for the prescribed loads.

D. Zee Purlins
   1. Fabricate purlins from cold-formed "Z" sections with stiffened flanges. Size flange stiffeners to comply with the requirements of the latest edition of AISI. Connection bolts will install through the webs, not the flanges.

E. Girts
   1. Girts must be simple or continuous span as required by design. Connection bolts will install through the webs, not the flanges.

F. Bracing
   1. Diagonal Bracing
      a. Longitudinal bracing in the roof and/or walls need not be furnished where it can be shown that the diaphragm strength of the roof and/or wall covering is adequate to resist the applied wind or seismic forces. Diagonal bracing in the roof and sidewalls may be used to resist longitudinal loads (wind, crane, etc.) in the structure if diaphragm action cannot be used.
      b. Diagonal bracing will be furnished to length and equipped with hillside washers and nuts at each end. It may consist of rods threaded each end or galvanized cable with suitable threaded end anchors. If load requirements so dictate, bracing may be of structural angle and/or pipe, bolted in place.
   2. Special Bracing: When diagonal bracing is not permitted in the sidewall, a rigid frame type portal or fixed base column may be used. Shear walls can also be used where adequate to resist the applied wind or seismic forces.
   3. Flange Braces: The inside compression flange of all primary framing must be braced laterally with angles connecting to the bottom chords of joists or to the webs of purlins/girts so that the flange compressive stress is within allowable limits for any combination of loading.
   4. Bridging: Laterally bridge the top and bottom chords of the open-web bar joists as required by design thereof and specified on the building erection drawings.

G. Trapezoidal Standing Seam Panels - General
   1. One side of the panel is configured as female, having factory applied mastic inside the female seam. The female side will hook over the male side and when seamed creates a continuous lock, forming a weathertight seam.
   2. Panels are factory notched at both ends so that field installation can commence or terminate from either end of the building. Panels cannot start at both ends of the building and work towards each other.
   3. Maximum panel length is 50 feet (16,764mm) unless otherwise noted in the Contract Documents.
   4. Endlaps
      a. Endlaps must have a 16 gauge backup plate and have the (8) endlap joint fasteners installed in dimpled locations in the flat with (1) endlap joint fastener installed in each trapezoid shoulder for a total of (10) fasteners at each endlap.
      b. Apply mastic between the panels and secured with #1/4-14 x 1 1/4 inch (32mm) self-drilling fasteners through the panels and backup plate to form a compression joint.
      c. "Through-the-Roof" fasteners may only be used at endlaps and eaves.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine substrates, areas, and conditions, with Erector present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.

B. Before erection proceeds, survey elevations and locations of concrete and masonry bearing surfaces and locations of anchor rods, bearing plates and other embedment’s to receive structural framing, with Erector present, for compliance with requirements and metal building system manufacturer’s tolerances.

C. Proceed with erection only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Provide temporary shores, guys, braces, and other supports during erection to keep structural framing secure, plumb, and in alignment against temporary construction loads equal in intensity to design loads. Remove temporary supports when permanent structural framing connections and bracing are in place, unless otherwise indicated.

3.03 INSTALLATION

A. The erection of the building system shall be performed by a qualified erector, in accordance with the appropriate erection drawings, erection guides and /or other documents furnished by manufacturer, using proper tools, equipment and safety practices.

B. Erect framing in accordance with MBMA Metal Building Systems Manual, Chapter IV Common Industry Practices

C. There shall be no field modifications to primary structural members except as authorized and specified by manufacturer.

3.04 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION

BID FORM

DATE: _____ 2023

Proposal of _____ (hereinafter called "Bidder"), a corporation, organized and existing under the laws of the State of Arkansas; a partnership; an individual doing business as _____.

TO: CITY OF TRUMANN
(Hereinafter called "Owner")

GENTLEMEN:

The Bidder, in compliance with your invitation for bids for the furnishing of materials and/or labor for Reconstruction of the Trumann Fire station having examined the plans and specifications with the related documents and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project, including the availability of materials, hereby proposes to furnish all materials and supplies in accordance with the Contract Documents, within the time set forth therein, and at the lump sum price stated below. These prices are to cover all expenses incurred in furnishing the equipment/materials required under the Contract Documents, of which this proposal is a part.

Bidder hereby agrees to commence work under this contract on or before a date to be specified in written "Notice to Proceed" by the Architect and to fully complete the project within Two Hundred and Seventy (270) consecutive calendar days thereafter as stipulated in the specifications. Bidder further agrees to pay as liquidated damages, the sum of $300.00 for each calendar day thereafter as hereinafter provided in the General Conditions.

Bidder acknowledges receipt of the following addenda:

_____

_____

_____

Bidder agrees to perform all the work required and to furnish all material required to be furnished to cover the finished work as described in the Specifications and as shown on the Plans for the following lump sum unit prices:

BID SCHEDULE

BASE BID:

ALL WORK REQUIRED FOR THE RECONSTRUCTION OF THE EXISTING FIRE STATION FOR A TOTAL LUMP SUM BID OF:

_____ Dollars ($)

ALTERNATES

The Bidder includes the following Alternates, as specified, and will adjust the Base Bid accordingly:

1. Deductive Alternate #1: Alternate #1 total: $ _____
   State the amount to be deducted from the Base Bid for omitting the brick wainscot on the residential portion of the building and all associated building work, including footings, and continue the metal panels to the bottom of wall.

2. Deductive Alternate #2: Alternate #2 total: $ _____
   State the amount to be deducted from the Base Bid for omitting the brick on the truck bay portion of the building and installing finished metal panels.

3. Deductive Alternate #3: Alternate #3 total: $ _____
   State the amount to be deducted from the Base Bid to install the originally specified PBR screw-down roof panels in lieu of the Batten-Lok standing seam panels in Article A of Addendum #1. As part of Deductive Alternate No. 3, omit 20 year warranty requirement.

4. Deductive Alternate #4: Alternate #4 total: $ _____
   State the amount to be deducted from the Base Bid for omitting the front porch from the entry to the building. Concrete walks shall remain part of the Base Bid.

5. Deductive Alternate #5: Alternate #5 total: $ _____
   State the amount to be deducted from the Base Bid for omitting the ceramic tile wainscot in all toilet rooms, and painting the walls with epoxy paint. Floor and base tile shall remain part of the Base Bid.

If the Owner desires to accept the alternates, they shall be taken in the following order: 1, 2, 3, 4, 5 per specifications Section 01030, Article 1.01.B.

In submitting this bid it is understood that the right is reserved by the Owner to reject any or all bids. No bid shall be withdrawn for a period of sixty (60) days subsequent to the opening of bids without the consent of the Owner.

Upon receipt of written notice of the acceptance of this bid, Bidder will execute the formal contract attached within 10 days and deliver a surety bond or bonds as required by the General Conditions.

The bid security attached in the sum of:

_____ Dollars ($_____) is to become the property of the Owner in the event the contract and bond are not executed within the time above set forth, as liquidated damages for the delay and additional expense to the Owner caused thereby.

RESPECTFULLY SUBMITTED,

BY: _____
Signature

_____ (SEAL if bid is by corporation)
Title

Business address:

_____

_____ _____
Contractor's Arkansas
License Number

SECTION 01030

ALTERNATES

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Includes lump sum price for each alternate specified.

B. The Owner shall have the right to accept the Alternates in the following order to determine the low Bidder on the basis of the sum of the Base Bid and Alternates accepted: 1, 2, 3, 4, and 5.

1.02 RELATED REQUIREMENTS

A. Project Requirements

B. Submittals

C. Materials and Equipment

D. Temporary Construction Facilities

E. Contract Closeout

1.03 RELATED WORK

A Referenced Sections of the Project Manual stipulate pertinent requirements for products and methods to achieve the work stipulated under each Alternate.

1.04 REQUIREMENTS

A. A lump sum price for each Alternate shall be submitted on the Bid Proposal Form. This amount shall be added to or deducted from the Base Bid if the Owner desires to accept the Alternates.

B. Coordinate pertinent related work and modify surrounding work as required to properly integrate the work under each Alternate, and to provide the complete construction required by the Contract Documents.

C. The Owner will have the prerogative to add any or all of the deducted work back into the Construction Contract within 90 days of the execution of the Agreement, provided the addition of deducted work back into the Construction Contract does not affect previously completed construction. If work under an Alternate is added back into the Construction Contract, the cost for each added item shall not exceed the cost added to the Base Bid for that item.

D. All guarantees and bonds required in connection with the Alternates shall in every way conform to those required for the Base Bid items replaced by or supplemented by the Alternate. The amount stated in each Alternate proposal shall include the cost of all changes necessitated by acceptance of that alternate whether specifically mentioned or not. Work performed as a result of the Owner's acceptance of an Alternate proposal shall conform in every way to all sections of the specifications.

1.05 DEDUCTIVE ALTERNATES

A. Deductive Alternate No. 1: State the amount to be deducted from the Base Bid for omitting the brick wainscot on the residential portion of the building and all associated building work, including footings, and continue the metal panels to the bottom of wall.

B. Deductive Alternate No. 2: State the amount to be deducted from the Base Bid for omitting the brick on the truck bay portion of the building and installing finished metal panels.

C. Deductive Alternate No. 3: State the amount to be deducted from the Base Bid to install the originally specified PBR screw-down roof panels in lieu of the Batten-Lok standing seam panels in Article A of Addendum #1. As part of Deductive Alternate No. 3, omit 20 year warranty requirement.

D. Deductive Alternate No. 4: State the amount to be deducted from the Base Bid for omitting the front porch from the entry of the building. Concrete walks shall remain part of the base bid.

E. Deductive Alternate No. 5: State the amount to be deducted from the Base Bid for omitting the ceramic tile wainscot in all toilet rooms, and painting the walls with epoxy paint. Floor and base tile shall remain part the Base Bid.

END OF SECTION

PROPOSED
TRUMANN FIRE STATION
TRUMANN, ARKANSAS

General Notes

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE **INTERNATIONAL BUILDING CODE**, LATEST ADOPTED EDITION, AND OTHER APPLICABLE CODES AND ORDINANCES AS ADOPTED BY **POINSETT COUNTY, THE CITY OF TRUMMAN,** AND ANY OTHER GOVERNING JURISDICTIONS.
2. ALL MECHANICAL AND PLUMBING WORK TO BE PERFORMED IN ACCORDANCE WITH THE NATIONAL PLUMBING CODE AND THE **INTERNATIONAL BUILDING CODE**, LATEST ADOPTED EDITION, AND ALL OTHER APPLICABLE CODES AND ORDINANCES AS ADOPTED BY **POINSETT COUNTY** AND ANY OTHER GOVERNING JURISDICTIONS.
3. ALL ELECTRICAL WORK TO BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE **INTERNATIONAL BUILDING CODE**, LATEST ADOPTED EDITION, AND OTHER APPLICABLE CODES AND ORDINANCES AS ADOPTED BY **POINSETT COUNTY** AND ANY OTHER GOVERNING JURISDICTIONS.
4. DIMENSIONS ARE TO FACE OF MASONRY, FACE OF FINISHED WALL, OR TO CENTERLINE OF STRUCTURE, UNLESS OTHERWISE INDICATED.
5. DIMENSIONS AND NOTES FOR A GIVEN CONDITION ARE TYPICAL FOR ALL SIMILAR CONDITIONS UNLESS OTHERWISE NOTED. **DO NOT SCALE PLANS.**
6. DRAWINGS AT LARGER SCALE SHALL TAKE PRECEDENCE OVER DRAWINGS AT A SMALLER SCALE. **NOTIFY ARCHITECT IMMEDIATELY OF ANY INCONSISTENCIES IN THE DRAWINGS, PRIOR TO PROCEEDING WITH WORK.**
7. ALL WALL SURFACES ARE TO BE MADE FLUSH AND SMOOTH PRIOR TO PAINTING OR INSTALLATION OF WALL COVERING.
8. ALL FLOOR SURFACES ARE TO BE MADE SMOOTH PRIOR TO INSTALLATION OF FLOORING.
9. DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE TEMPORARY WATERPROOFING AND SECURITY AT ALL OPENINGS.
10. CONTRACTOR SHALL EXECUTE ALL CUTTING AND PATCHING FOR INSTALLATION OF AND/ OR MODIFICATIONS TO HVAC, ELECTRICAL, PLUMBING, FIRE SUPPRESSION, ETC. SYSTEMS. EXECUTE ALL PATCHING TO RESTORE FINISHES TO MATCH ADJACENT SURFACES.
11. "ALIGN", AS INDICATED IN THE CONTRACT DOCUMENTS, SHALL MEAN TO ACCURATELY LOCATE FINISH FACES IN THE SAME PLANE.
12. GENERAL CONTRACTOR/CONSTRUCTION MANAGER IS RESPONSIBLE FOR CHECKING ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, AND DIMENSIONS FOR ACCURACY AND CONFIRMING THAT THE WORK IS BUILDABLE AS SHOWN **PRIOR** TO PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION CONDITIONS, **THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK IN QUESTION OR RELATED WORK.**
13. CONTRACTORS ARE RESPONSIBLE FOR SUPPLYING ALL MATERIALS AND LABOR TO COMPLETE THE WORK TO THE FULLEST INTENT OF THE PLANS, WHETHER EVERY DETAIL IS SHOWN HEREIN OR NOT.
14. ALL BIDDERS SHALL VISIT THE SITE TO THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A BID PROPOSAL.

Materials

- EARTH
- GRAVEL, CRUSHED STONE
- CONCRETE
- CMU, FINISH AS NOTED
- BRICK
- NATURAL STONE
- STEEL
- ALUMINUM
- SOLID, FINISHED WOOD
- CONT. WOOD MEMBER
- WOOD BLOCKING OR SHIM
- PLYWOOD
- WOOD IN ELEVATION
- GYPSUM WALLBOARD
- ACOUSTICAL PANELS/TILES
- RIGID INSULATION
- BATT INSULATION
- WATERPROOF MEMBRANE/ FLASHING AS NOTED
- GLASS
- GLASS IN ELEVATION
- CERAMIC TILE
- PLASTER, MORTAR
- SEALANT, BACKER ROD
- PROPOSED CONSTRUCTION
- DEMOLISH AND REMOVE, SALVAGE AS NOTED
- EXISTING CONSTRUCTION, PARTS TO REMAIN

Symbols

- 1 / A501 — DETAIL / SHEET NUMBER
- 1 / A200 — ELEVATION NUMBER / SHEET NUMBER
- 1 / A300 — BUILDING SECTION / SHEET NUMBER
- 3 — WALL TYPE
- A / 2 — DOOR TYPE HARDWARE TYPE
- A — WINDOW TYPE
- 2 — INTERIOR ELEVATION ON SAME SHEET
- 1 / A500 — INTERIOR ELEVATION NUMBER / SHEET NUMBER
- OFFICE / 101 — ROOM NAME / ROOM NUMBER
- 355 — EGRESS CAPACITY
- 10 — RENOVATION NOTES
- 2 — REVISION NUMBER
- ELEVATION MARK
- 1 HR. RATED WALL
- 2 HR. RATED WALL

Abbreviations

A	Air	CRS.	Course(s)	F.A.	Fire Alarm	L.	Length	PERF.	Perforated	S.S.	Stainless Steel
A.B.	Anchor Bolt	C.R.T.	Cathode Ray Tube	F.BR.	Face Brick	LAB.	Laboratory	PL.	Plate	S.SK.	Service Sink
ABV.	Above	C.S.	Cast Stone	F.C.U.	Fan Coil Unit	LAD.	Ladder	P.L.F.	Pounds per Linear Foot	STA.	Station
A/C	Air Conditioning	CSMT.W.	Casement Window	F.D.	Floor Drain	LAM.	Laminate	P.L.	Property Line	STD.	Standard
ACC.	Accessories	C.ST.	Cast Stone	F.E.	Fire Extinguisher	LAV.	Lavatory	P.LAM.	Plastic Laminate	STL.	Steel
ACOUS.	Acoustical	C.T.	Ceramic Tile	F.E.C.	Fire Extinguisher Cabinet	LB.	Pound	PLAS.	Plaster	STOR.	Storage
A.C.P.	Acoustic Ceiling Panel	CTSK.	Countersunk			L.B.	Log Bolt	PLYWD.	Plywood	STRUC.	Structural
		CTR.	Counter	F.F.	Factory Finish	L.F.	Linear Foot	PNL.	Panel	SUR.	Surface
A.C.T.	Acoustic Ceiling Tile	C.W.	Curtain Wall	F.H.	Fume Hood	LIB.	Library	PR.	Pair	SUSP.	Suspended
ACT.	Actual	C.YD.	Cubic Yard	F.H.C.	Fire Hose Cabinet	LKR.	Locker	PR.TR.	Pressure Treated	SYM.	Symmetrical
A.D.	Area Drain	CX.	Connection	F.H.M.S.	Flat Head Machine Screw	LMS.	Limestone	PROJ.W.	Projected Window	SYS.	System
ADJ.	Adjustable					LT.	Light	PT.	Point	S.V.	Stain & Varnish
A.F.F.	Above Finish Floor	D.	Depth or Drain	F.O.C.	Face Of Concrete	LT.WT.	Light Weight	PTD.	Painted		
AGGR.	Aggregate	D.A.	Davit Anchor	F.O.E.W.	Face Of Existing Wall	L.P.	Low Point	P.T.D.	Paper Towel Dispenser	T.	Tread
A.H.U.	Air Handling Unit	DBL.	Double	F.O.F.	Face Of Finish	LVR.	Louver	P.T.D/R.	Combination Paper Towel Dispenser & Receptacle	TKBD.	Tackboard
ALUM.	Aluminum	D.C.O.	Duplex Convenience Outlet	F.O.M.	Face Of Masonry					T.B.	Tile Back or Towel Bar
ALT.	Alternate			F.O.S.	Face Of Studs	M.	Meter				
ANCH.	Anchor	DEMO.	Demolish	F.O.W.	Face Of Wall	MAS.	Masonry	PTN.	Partition	T.C.	Terra Cotta
ANOD.	Anodized	DEPT.	Department	F.RT.	Fire Retardant	MAX.	Maximum	P.S.F.	Pounds per Square Foot	TEL.	Telephone
A.P.	Access Panel	DES.	Design	F.S.	Full Size	M.B.	Machine Bolt			TEMP.	Tempered
APPROX.	Approximate	DET.	Detail	F.V.D.	Field Verify	M.C.	Medicine Cabinet	P.S.I.	Pounds per Square Inch	TER.	Terrazzo
ARCH.	Architectural	D.F.	Drinking Fountain		Dimension	M.D.P.	Main Distribution			T&G	Tongue & Groove
ASPH.	Asphalt	D.H.W.	Double Hung Window	GA.	Gauge		Panel	P.T.R.	Paper Towel Receptacle	THK.	Thick
AUTO.	Automatic	DIA.	Diameter	GALV.	Galvanized	MECH.	Mechanical	PVC.	Polyvinyl Chloride	THR.	Threshold
		DIM.	Dimension	G.B.	Grab Bar	MED.	Medium	PV.	Pave(d)(ing)	T.L.	Task Light
BD.	Board	DISP.	Dispenser	G.C.	General Contractor	MEMB.	Membrane	PVMT.	Pavement	TLT.	Toilet
BET.	Between	DIV.	Division	GEN.	General	MET.	Metal			TOL.	Tolerance
BG.	Bumperguard	DN.	Down	GFRG.	Glass Fiber Reinforced Gypsum Board	MEZZ.	Mezzanine	Q.T.	Quarry Tile	T.P.D.	Toilet Paper Dispenser
BIT.	Bituminous	D.O.	Door Opening			MFR.	Manufacturer				
BLDG.	Building	D.P.	Dampproofing	GF.CMU.	Ground Face CMU	MH.	Manhole	R.	Riser	T.P.TN.	Toilet Partition
BLK.	Block	DR.	Door	G.I.	Galvanized Iron	MIN.	Minimum	RAD.	Radius	TR.	Transom
BLKG.	Blocking	DWR.	Drawer	GL.	Glass/Glazing	MIR.	Mirror	R.B.	Resilient Base	T.S.	Top of Slab
BOT.	Bottom	DS.	Downspout	GL.B.	Glass Block	MISC.	Miscellaneous	RBT.	Rabbet	T.STL.	Top of Steel
BM.	Beam	D.S.	Drainage Structure	GLZ.	Glazed	MLD.	Moulding	R.C.P.	Reflected Ceiling Plan	T.V.	Television
BR.	Brick	D.S.P.	Dry Standpipe	GND.	Ground	MM.	Millimeter	R.D.	Roof Drain	T.W.	Top of Wall
BRZ.	Bronze	DWG.	Drawing	GR.	Grade	M.O.	Masonry Opening	REC.	Recessed	TYP.	Typical
BSMT.	Basement	DWR.	Drawer	GRN.	Granite	MOD.	Module	RECEPT.	Receptacle		
BRG.	Bearing	DWT.	Dumbwaiter	GRV.	Gravel	MOV.	Movable	REF.	Reference		
B.U.R.	Built Up Roof			GYP.	Gypsum	MRB.	Marble	REFR.	Refrigerator	UC.	Undercut
		E.	East	GYP.BD.	Gypsum Board	MTD.	Mounted	REGTR.	Register	UNF.	Unfinished
CAB.	Cabinet	EA.	Each			MTG.	Mounting	REINF.	Reinforced	U.N.O.	Unless Noted
C.B.	Catch Basin	E.B.	Expansion Bolt	H.A.	Hot Air	MTL.	Material	REM.	Remove		Otherwise
C FT.	Cubic Foot	E.EW.	Emergency Eyewash	H.B.	Hose Bibb	MUL.	Mullion	REQ.	Required	UR.	Urinal
CEM.	Cement	E.J.	Expansion Joint	H.C.	Hollow Core			RESIL.	Resilient		
CEM PL.	Cement Plaster	EL.	Elevation	HD.	Head	N.	North	REV.	Revision	V.	Volt
CER.	Ceramic	ELEC.	Electrical	HDWD.	Hardwood	NAP.	Napkin	RFG.	Roofing	V.B.	Vapor Barrier
CG.	Cornerguard	ELEV.	Elevator	HDWE.	Hardware	NAT.	Natural	RF.H.	Roof Hatch	VAC.	Vacuum
CHBD.	Chalkboard	EMER.	Emergency	HGT.	Height	N.I.C.	Not In Contract	R.L.	Rain Leader	V.C.T.	Vinyl composition Tile
C.I.	Cast Iron	ENCL.	Enclosure	H.M.	Hollow Metal	NO.	Number	R.T.	Rubber Tile	VERT.	Vertical
C.I.P.C.	Cast In Place Concrete	ENT.	Entrance	H.P.	High Point/ Horsepower	NOM.	Nominal	RM.	Room	VEST.	Vestibule
CIR.	Circle	E.P.	Electrical Panelboard	HORIZ.	Horizontal	N.T.S.	Not To Scale	R.O.	Rough Opening	VIC.	Vicinity
CIRC.	Circumference	E.P.S.	Extruded Polystyrene	HR.	Hour			R.O.W.	Right-of-Way	V.I.F.	Verify in Field
C.J.	Control Joint	EQ.	Equal	HTG.	Heating	O.A.	Overall	RWD.	Redwood	VNR.	Veneer
CLG.	Ceiling	Equip.	Equipment	HT.	Height	OBS.	Obscure	R.V.	Roof Vent	VOL.	Volume
C.L.L.	Contract Limit Line	E.S.	Emergency Shower	HVAC	Heating, Ventilating, Air Conditioning	O.C.	On Center			V.T.	Vinyl Tile
CLO.	Closet	ESC.	Escalator			O.D.	Outside Diameter	S.	South	V.T.R.	Vent Through Roof
CLR.	Clear	E.W.C.	Electric Water Cooler	H.W.	Hot Water	O.F.C.I.	Owner Furnished Contractor Installed	SAN.	Sanitary	V.W.C.	Vinyl Wall Covering
CL.RM.	Class Room	EXIST.	Existing	H.W.H.	Hot Water Heater			S.C.	Solid Core		
CM.	Centimeters	EXPO.	Exposed	HYD.	Hydrant	OFF.	Office	S.C.D.	Seat Cover Dispenser	W.	West or Width
C.M.T.	Ceramic Mosaic Tile	EXP.	Expansion			OH.	Overhead	SCHED.	Schedule	W/	With
C.M.U.	Concrete Masonry Unit	EXT.	Exterior	I.D.	Inside Diameter	O.H.M.S.	Oval Head Machine Screw	SCR.	Screen	W.C.	Water Closet or Wallcovering
		EXTR.	Extruded	IN.	Inch or Inches			S.D.	Soap Dispenser		
C.O.	Clean Out	FAS.	Fasten(er)	INCL.	Include(d) Insulation	O.H.W.S.	Oval Head Wood Screw	SECT.	Section	WC.	Wheelchair
COL.	Column	FDN.	Foundation	INSUL.				S.F.CMU.	Split Face CMU	WD.	Wood
COMB.	Combination	FED.	Federal	INT.	Interior	OP.H.	Opposite Hand	S.G.T.	Structural Glazed Tile	W.F.	Wide Flange
COMM.	Communication	FIN.	Finish	INTM.	Intermediate	OPNG.	Opening	SH.	Shelf	W.H.	Wall Hydrant
COMPO.	Composition	FIXT.	Fixture	INV.	Invert	OPP.	Opposite	SHR.	Shower	WK.	Work
COMP.	Compress(ed)(ion)	FLASH.	Flashing	I.P.S.	Iron Pipe Size	OZ.	Ounce	SHT.	Sheet	WIN.	Window
CONC.	Concrete	FLEX.	Flexible	JAN.	Janitor			SHTH.	Sheathing	W.I.	Wrought Iron
CONN.	Connection	FLOUR.	Fluorescent	JST.	Joist	PAR.	Parallel	SIM.	Similar	W/O	Without
CONST.	Construction	FL.	Floor	J.F.	Joint Filler	PAV.	Paving	SKL.	Skylight		
CONT.	Continued	FPL.	Fireplace	JT.	Joint	P.BD.	Particle Board	S.N.D.	Sanitary Napkin Dispenser		
COORD.	Coordinate	FPRF.	Fireproof			P.C.	Pre-cast				
CORR.	Corridor	FTG.	Footing	KIT.	Kitchen	P.C.F.	Pounds per Cubic Foot	S.N.R.	Sanitary Napkin Receptacle		
CPR.	Copper	FT.	Foot/Feet	K.O.	Knock Out	P.E.	Porcelain Enamel	SPEC.	Specification		
CPT.	Carpet	FURR.	Furring	K.S.	Knee Space	PED.	Pedestal	SPK.	Speaker		
CR.	Chromium Plated	FUT.	Future			PER.	Perimeter	SQ.	Square		

Zoning Data

ADDRESS	=	801 WEST MAIN, TRUMANN, ARKANSAS
ZONE	=	C-2
REQUIRED FRONT YARD SETBACK	=	15'-0" MINIMUM
REQUIRED REAR YARD SETBACK	=	15'-0" MINIMUM
REQUIRED SIDE YARD SETBACKS	=	15'-0" MINIMUM

Building Code Data

DESCRIPTION OF WORK:
-RECONSTRUCTION OF FIRE STATION BUILDING WITH ADDITION TO TRUCK BAY.
-MIXED USE BUILDING WITH OFFICES, DORMITORY AND VEHICLE STORAGE.

BUILDING CODES

BUILDING CODE	=	2021 ARKANSAS FIRE PREVENTION CODE
ACCESSIBILITY CODE	=	2009 ANSI A117.1 & 2015 IBC CHAPTER 11
ENERGY CODE	=	2009 INTERNATIONAL ENERGY CONSERVATION CODE
ELECTRICAL	=	2014 NATIONAL ELECTRIC CODE
PLUMBING	=	- INTERNATIONAL PLUMBING CODE
MECHANICAL	=	- INTERNATIONAL MECHANICAL CODE
FUEL GAS	=	- INTERNATIONAL FUEL GAS CODE

OFFICES & DORMITORY

OCCUPANCY	=	B (BUSINESS) & R2 (DORMITORY) - NON-SEPARATED
CLASSIFICATION	=	TYPE II - SPRINKLERED, SINGLE-STORY BUILDING

AREA CALCULATIONS

AREA INCREASE

BUILDING PERIMETER	=	465'
20' - 30' OPEN PERIMETER	=	405'
ALLOWED INCREASE	=	26.7 %

BUILDING HEIGHT

ALLOWED STORIES	=	4 (R2 OCCUPANCY)
PROPOSED STORIES	=	1

ALLOWABLE AREA

TABULAR AREA	=	64,000 sq. ft. (R2 OCCUPANCY)
FRONTAGE INCREASE	=	4,272 sq. ft.
SINGLE FLOOR MAX. AREA	=	68,272 sq. ft.
PROPOSED BUILDING AREA	=	4,907 sq. ft.

REQUIRED FIRE RESISTANCE RATINGS

COMPONENT	RATING	UL #
FIRE WALLS	0	
STRUCTURAL FRAME	0	
BEARING WALLS		
EXTERIOR	0	
INTERIOR	0	
NON-BEARING WALLS		
EXTERIOR	0	
INTERIOR	0	
FLOOR CONSTRUCTION	0	
ROOF CONSTRUCTION	0	
EXIT ACCESS CORRIDORS (TABLE 1016.1)	1	U419 - 1 HR.
OCCUPANCY SEPARATION	1	U419 - 1 HR.

TRUCK BAYS

OCCUPANCY	=	S2 (LOW HAZARD STORAGE)
CLASSIFICATION	=	TYPE II - SPRINKLERED, SINGLE-STORY BUILDING

AREA CALCULATIONS

AREA INCREASE

BUILDING PERIMETER	=	318'
20' - 30' OPEN PERIMETER	=	240'
ALLOWED INCREASE	=	50.5 %

BUILDING HEIGHT

ALLOWED STORIES	=	4
PROPOSED STORIES	=	1

ALLOWABLE AREA

TABULAR AREA	=	104,000 sq. ft.
FRONTAGE INCREASE	=	13,130 sq. ft.
SINGLE FLOOR MAX. AREA	=	117,130 sq. ft.
PROPOSED BUILDING AREA	=	5,967 sq. ft.

REQUIRED FIRE RESISTANCE RATINGS

COMPONENT	RATING	UL #
FIRE WALLS	0	
STRUCTURAL FRAME	0	
BEARING WALLS		
EXTERIOR	0	
INTERIOR	0	
NON-BEARING WALLS		
EXTERIOR	0	
INTERIOR	0	
FLOOR CONSTRUCTION	0	
ROOF CONSTRUCTION	0	
EXIT ACCESS CORRIDORS (TABLE 1016.1)	1	U419 - 1 HR.
OCCUPANCY SEPARATION	1	U419 - 1 HR.

Deductive Alternates

1. DEDUCTIVE ALTERNATE NO. 1: STATE THE AMOUNT TO BE DEDUCTED FROM THE BASE BID FOR OMITTING THE BRICK WAINSCOT ON THE RESIDENTIAL PORTION OF THE BUILDING AND ALL ASSOCIATED BUILDING WORK, INCLUDING FOOTINGS, AND CONTINUE THE METAL PANELS TO THE BOTTOM OF WALL.
2. DEDUCTIVE ALTERNATE NO. 2: STATE THE AMOUNT TO BE DEDUCTED FROM THE BASE BID FOR OMITTING THE BRICK ON THE TRUCK BAY PORTION OF THE BUILDING AND INSTALLING FINISHED METAL PANELS.
3. DEDUCTIVE ALTERNATE NO. 3: STATE THE AMOUNT TO BE DEDUCTED FROM THE BASE BID TO INSTALL THE ORIGINALLY SPECIFIED PBR SCREW-DOWN ROOF PANELS IN LIEU OF THE BATTEN-LOK STANDING SEAM PANELS IN ARTICLE A OF ADDENDUM #1. AS PART OF DEDUCTIVE ALTERNATE NO. 3, OMIT 20 YEAR WARRANTY REQUIREMENT.
4. DEDUCTIVE ALTERNATE NO. 4: STATE THE AMOUNT TO BE DEDUCTED FROM THE BASE BID FOR OMITTING THE FRONT PORCH FROM THE ENTRY OF THE BUILDING. CONCRETE WALKS SHALL REMAIN PART OF THE BASE BID.
5. DEDUCTIVE ALTERNATE NO. 5: STATE THE AMOUNT TO BE DEDUCTED FROM THE BASE BID FOR OMITTING THE CERAMIC TILE WAINSCOT IN ALL TOILET ROOMS, AND PAINTING THE WALLS WITH EPOXY PAINT. FLOOR AND BASE TILE SHALL REMAIN PART OF THE BASE BID.

1

Index to Drawings

SEALS:

CARTER A. HORD — REGISTERED ARCHITECT — 10-24-23 — NO. 2972 — ARKANSAS

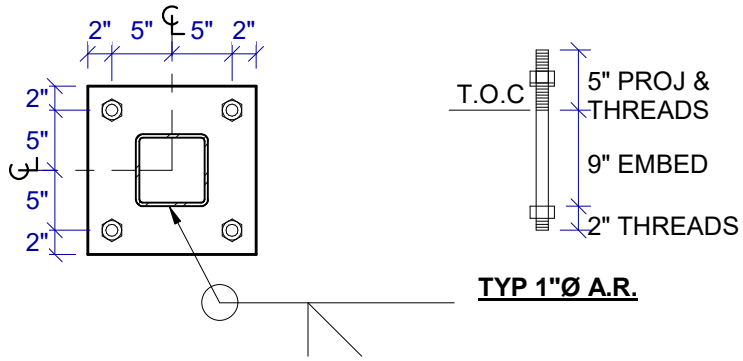
REGISTERED ARCHITECT — HORD ARCHITECTS, PLLC — COA-011120 — STATE OF ARKANSAS

HORD ARCHITECTS
66 Monroe Avenue, Suite 105 — Memphis, TN 38103
tel. 901-527-9085 — fax. 901-527-9087

PROPOSED: TRUMANN FIRE STATION
801 WEST MAIN ST, TRUMANN, AR 72472

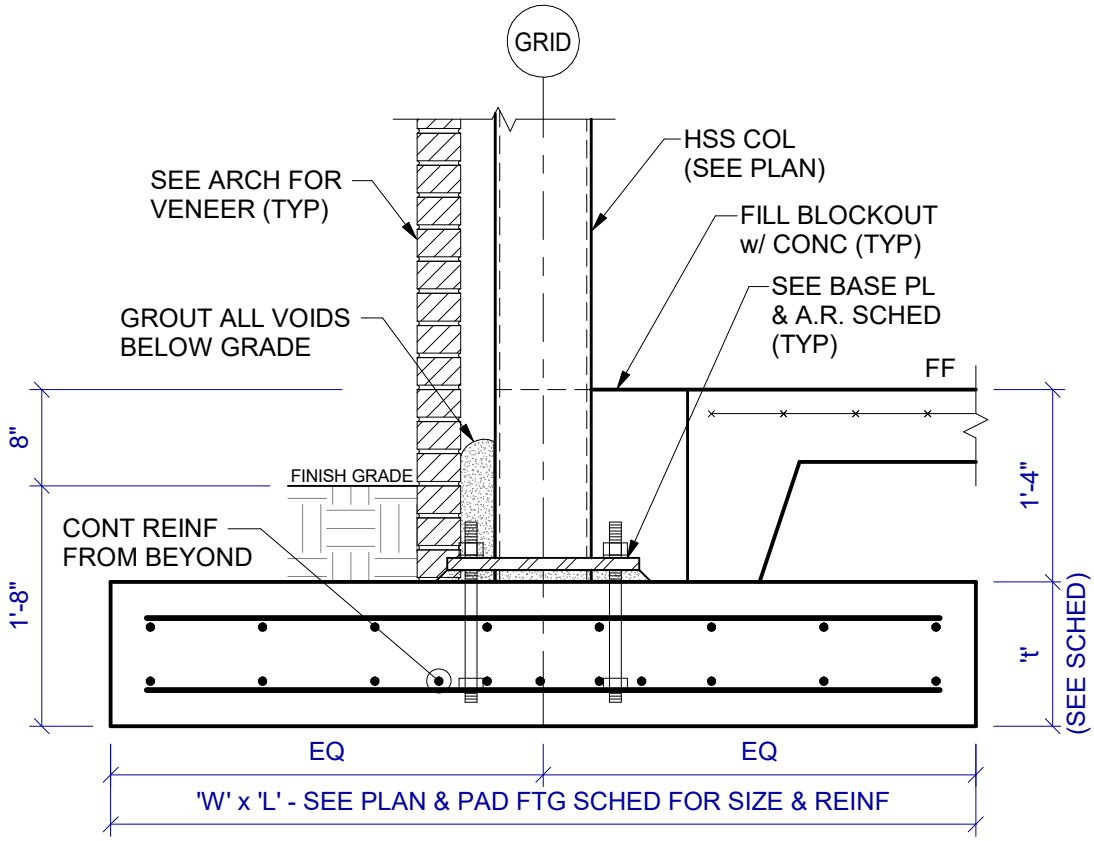
PROJECT NO.: 2023-02
DRAWN BY: PK
CHECKED BY: CAH
DATE: 10-11-2023
REVISIONS:
1 — 10-24-2023

SHEET NO.:
T101



HSS6x6 COLUMN
1" BASE PL w/ (4)1"Ø A.R.
1" N.S. GROUT

TYPICAL BASE PL & A.R. SCHEDULE



1 BASE PLATE FOR HSS6x6 COLS

3/4" = 1'-0"

FOWLER ENGINEERING, LLC
STRUCTURAL ENGINEERING CONSULTANTS
1989 OAK TREE COVE, SUITE A
HERNANDO, MS 38632
662.469.9571

JOB TITLE: TRUMANN FIRE STATION	Scale: 3/4" = 1'-0"	PLAN
JOB NO: 2023-02	Date: 10/23/23	SUP-S1