IFB # AC-22-B-0038-S DATE: September 22, 2022

ADDENDUM NO. 2

PROJECT: FMTC SOLDIER FITNESS TRAINING AND TESTING FACILITY
FORT McCLELLAN, ALABAMA

All Bidders of Record
This Addendum forms a part of the Contract Documents, dated August 31, 2022, and modifies the original project Manual and Drawings. All Bidders shall acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification. Perform all work in no more than 420 calendar days in accordance with the Milestone Dates for this project.
This Addendum consists of Thirty-three (33) Pages.

A. MODIFICATIONS TO CONTRACTUAL/LEGAL REQUIREMENTS:

1. Refer to Specifications, Division 00:
   A. Replace existing Section 00 41 00 Proposal Form with attached revised 00 41 00 Proposal Form.
   B. **Note that the location for opening of bids has been moved to Room 130 of Fort George C. Wallace, 1750 Congressman W. L. Dickinson Drive, Montgomery, Alabama.**

2. Refer to Specifications, Division 01 – General Requirements
   A. Replace existing Section 01 23 00 Alternates with attached revised 01 23 00 Alternates.

3. Refer to Specifications, Division 07 – Thermal and Moisture Protection
   A. The attached Section 07 42 13 Metal Wall Panels is hereby a part of the Contract Documents.

4. Refer to Specifications, Division 08 – Openings
   A. Refer to existing Section 08 91 00 Louvers and Vents and delete this section in its entirety.

5. Refer to Specifications, Division 32 – Exterior Improvements
   A. Refer to Section 32 18 13 Synthetic Turf Systems and replace this section with the attached revised 32 18 13 Synthetic Turf Systems section.

6. Refer to Plans:
   A. See attached drawing T1.1/SD-1 which indicates:
      a. Revision of former Bid Item B and C with associated Alternates.

7. Refer to Plans, Sheet BI.B/A2.1:
   A. See attached drawing BI.B/A2.1/SD-3 which revises the gable end detail elevation A/A2.1.
   B. See attached drawing BI.B/A2.1/SD-4 which revises the gable end detail elevation C/A2.1.

8. Refer to Plans, Sheet BI.B/A3.1:
   A. See attached drawing BI.B/A3.1/SD-5 which revises the gable end detail of Building Section A/A3.1.

9. Refer to Plans, Sheet BI.B/A3.1 – Detail 5/A3.1:
   A. Revise the note “R-19 Batt Insulation Beyond in Between Wood Framing” to read as follows: 6” R-19 INSULATION WITH WHITE VINYL SCRIM COATING SECURED BETWEEN WOOD FRAMING WITH 1” WIDE METAL STRAPS @ 4’-0” O.C. MAX. SPACING.

10. Refer to Plans, Sheet BI.C/A2.2 – Detail B/A2.2:
    A. Revise the note “Compacted Finish Stone” to read as follows: 2” COMPACTED FINE SCREENING STONE.
    B. Revise the note “Base Porous / Graded Aggregate” to read as follows: 6” COMPACTED NO. 57 STONE.

11. Refer to Plans, Sheet S1 – SFTTF Existing Conditions Survey:
    A. See attached revised Sheet S1/ SD-6 for added Point Table.

12. Refer to Plans, Sheet S2 – Grounds Services and Equipment Existing Conditions Survey:
    A. See attached revised Sheet S2/ SD-7 for added Site Control Points.

13. Refer to Plans, Sheet BI.B/C200 – Grounds Services and Equipment Master Plan, Site Layout, and Utility Plan:
    A. See attached revised Sheet BI.B/C200/ SD-8 for revised notes.

14. Refer to Plans, Sheet BI.B/C300 – Grounds Services and Equipment Grading, Drainage, and BMP Plan:
    A. See attached revised Sheet BI.B/C300/ SD-9 for revised notes.

15. Refer to Plans, Sheet BI.C/C400 – SFTTF Facility Site Demolition and Layout Plan:
    A. See attached revised Sheet BI.C/C400/ SD-10 for revised notes.

16. Refer to Plans, Sheet BI.C/C500 – SFTTF Facility Grading and Erosion Control Plan:
    A. See attached revised Sheet BI.C/C500/ SD-11 for revised notes.

17. Refer to Plans, Sheet BI.C/C600 – SFTTF Facility Site Utility Plan:
    A. See attached revised Sheet BI.C/C600/ SD-12 for revised notes.

END OF ADDENDUM NO. 2

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SECTION 00 41 00 – PROPOSAL FORM
(Revision Date: 12 Jan 2021)

IFB # AC-22-B-0038-S
BID OPENING DATE: 27 SEPTEMBER 2022
BIDDER _____
CONTRACTOR'S LICENSE NO. _____

TO: The Armory Commission of Alabama
State Military Property and Disbursing Officer
Headquarters, Alabama National Guard
1720 Cong. W.L. Dickinson Drive
Montgomery, Alabama 36109-0711

PROJECT: FMTC SOLDIER FITNESS TRAINING AND TESTING FACILITY
FORT MCCLELLAN, ALABAMA
IFB# AC-22-B-0038-S

In compliance with your Invitation for Bids dated 31 August 2022, the undersigned hereby proposes to furnish the plant, labor, materials, and equipment and perform all work for the above-described project in strict accordance with the specifications, drawings, and addenda number _____ for consideration of the following prices (bid prices do NOT include Sales or Use Taxes in accordance with Act 2013-205):

BID

PERFORM ALL WORK IN ACCORDANCE WITH THE DRAWINGS & SPECIFICATIONS FOR:
FMTC SOLDIER FITNESS TRAINING AND TESTING FACILITY, FORT MCCLELLAN, ALABAMA.

BID ITEM A: (Complete demolition & removal of all buildings, utilities, paving, fencing, etc. associated with buildings 1317, 1319, 1378, & 1378A.) **$**_____

BID ITEM B: (Construction of new 10,098 sq. foot open shed pre-engineered metal building (PEMB) with nine artificial field turf ACFT lanes for soldier fitness training and testing) Formerly Bid Item C **$**_____

B.I. B –
Alternate B1: (Expand the fitness training and testing building by one bay of 3,060 sq. feet) Formerly Alternate C1 **$**_____

Alternate B2: (Expand the fitness training and testing building by one bay of 3,060 sq. feet as well as the bay identified in Alternate B1.) Formerly Alternate C2 **$**_____

Alternate B3: (Installation of pre-finished metal liner panels and scrim encased R-19 batt insulation at the bottom of the open shed portion of the Training Building.) Formerly Alternate C3 **$**_____

BID ITEM C: (Construction of new Grounds Services & Equipment (GSE) compound and 2,880 sq. foot Pole Barn) Formerly Bid Item B **$**_____

B.I. C –
Alternate C1: (Expanding the concrete slab to include bays 3 – 7.) Formerly Alternate B1 **$**_____

Alternate C2: (Expand the Pole Barn by constructing one additional 12' x 40' bay) Formerly Alternate B2 **$**_____

Alternate C3: (Expand the Pole Barn by constructing one additional 12' x 40' bay as well the bay identified Alternate C2) Formerly Alternate B3 **$**_____

BID ITEM D: (Construction of 1,371 sq. foot fully enclosed area containing restrooms and storage space for the fitness and testing equipment.) $_____

ACCOUNTING OF SALES TAX

Pursuant to Act 2013-205, section 1(g) the Contractor accounts for sales tax NOT in the bid form as follows:

ESTIMATED SALES TAX AMOUNT

BID ITEM A: (Complete demolition & removal of all buildings, utilities, paving, fencing, etc. associated with buildings 1317, 1319, 1378, & 1378A.) $_____

BID ITEM B: (Construction of new 10,098 sq. foot open shed pre-engineered metal building (PEMB) with nine artificial field turf ACFT lanes for soldier fitness training and testing) Formerly Bid Item C $_____

B.I. B – Alternate B1: (Expand the fitness training and testing building by one bay of 3,060 sq. feet) Formerly Alternate C1 $_____

Alternate B2: (Expand the fitness training and testing building by one bay of 3,060 sq. feet as well as the bay identified in Alternate B1.) Formerly Alternate C2 $_____

Alternate B3: (Installation of pre-finished metal liner panels and scrim encased R-19 batt insulation at the bottom of the open shed portion of the Training Building.) Formerly Alternate C3 $_____

BID ITEM C: (Construction of new Grounds Services & Equipment (GSE) compound and 2,880 sq. foot Pole Barn) Formerly Bid Item B $_____

B.I. C – Alternate C1: (Expanding the concrete slab to include bays 3 – 7.) Formerly Alternate B1 $_____

Alternate C2: (Expand the Pole Barn by constructing one additional 12’ x 40’ bay) Formerly Alternate B2 $_____

Alternate C3: (Expand the Pole Barn by constructing one additional 12’ x 40’ bay as well the bay identified Alternate C2) Formerly Alternate B3 $_____

BID ITEM D: (Construction of 1,371 sq. foot fully enclosed area containing restrooms and storage space for the fitness and testing equipment.) $_____

Failure to provide an accounting of sales tax shall render the bid non-responsive. Other than determining responsiveness, sales tax accounting shall not affect the bid pricing nor be considered in the determination of the lowest responsible and responsive bidder.

TIME LIMIT: These bids are subject to an acceptance period of thirty (30) days.

A. All amounts and totals given will be subject to verification by the State. In case of variation between unit bid price and total shown by bidder, the unit price will be considered to be his bid. The State reserves the right to award the work on the basis of any bid or any combination of bids and to increase or decrease the quantities of any item listed in this bid at the price quoted for that particular item.

B. Bids shall be for the entire work and shall have each blank space filled in to include the "Estimated Sales Tax Accounting".

C. The quantities of each item of the bid as finally ascertained at the close of the contract will determine the total payment to accrue under the contract.

D. The bidder, upon request of written notice of award of the contract within thirty (30) days after the date of opening of bids, agrees that he will execute the construction contract in accordance with this bid as accepted, and if the consideration of the contract will exceed $50,000.00 in amount, will furnish to the State a Performance Bond and a Payment Bond on AGO Forms, with good and sufficient surety or sureties as required by the specifications, at the time the contract is executed.

E. It is hereby warranted that in the event award is made to the undersigned, there will be furnished under this contract or used in the performance of the work covered by this contract, only such unmanufactured articles, materials, and supplies as have been mined or produced in the United States, and only such manufactured articles, materials, or supplies mined, produced or manufactured, as the case may be, in the United States, except as indicated in the bid documents..

F. The bidder further agrees that if awarded the contract, he will commence work within ten (10) calendar days after notice to proceed date and that he will fully complete the work ready for use not later than **420 calendar days** after notice to proceed date.

FIRM NAME _____

ADDRESS _____

_____

PHONE _____

FAX _____

EMAIL _____

BY _____
SIGNATURE

PRINTED NAME_____

TITLE _____

STATE OF ALABAMA
CONTRACTOR'S LICENSE NO. _____

NOTES:

All bidders must be licensed under the provisions of Title 34, Chapter 8, Code of Alabama, 1975, as amended.

On projects bid at $50,000.00 or more, the bidder must include his license number on the bid form in the prescribed place and on the outside of the envelope containing the bid, or otherwise the bid will not be considered.

Bid Prices do not include Sales or Use Taxes but these taxes are identified in the Estimated Sales Tax Amount section of this bid form.

SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes: Administrative and procedural requirements for Additive Alternates.

1.02 DEFINITIONS

A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the Base Bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
   1. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.03 PROCEDURES

A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
   1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.

B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.

C. Execute accepted alternates under the same conditions as other work of the Contract.

D. Schedule: A Schedule of Alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.01 SCHEDULE OF ALTERNATES

A. BID ITEM A: N/A

B. BID ITEM B:
Bid Item B, Alternate No. B1 (Formerly Alternate C1): Each bidder shall include on their proposal an Alternate price including all labor, material, taxes, overhead, profit, etc. to consist of expanding the open shed portion of the Training Building by 3,060 square feet thus adding three more ACFT lanes of field turf with a concrete apron at the perimeter of the turf area, lighting, all finishes, equipment, and appurtenances as shown on drawings and specified herein.

C. BID ITEM B:
Bid Item B, Alternate No. B2 (Formerly Alternate C2): Each bidder shall include on their proposal an Alternate price including all labor, material, taxes, overhead, profit, etc. to consist of expanding the open shed portion of the Training Building to include the items of Alternate B1 and by adding 3,060 square feet thus adding three more ACFT lanes of field turf with a concrete apron at the perimeter of the turf area, lighting, all finishes, equipment, and appurtenances as shown on drawings and specified herein.

D. Bid Item B:
Bid Item B, Alternate No. B3 (Formerly Alternate C3): Each bidder shall include on their proposal an Alternate price including all labor, material, taxes, overhead, profit, etc. to consist of installing pre-finished metal liner panels and scrim encased R-19 batt insulation at the bottom of the open shed portion of the Training Building in coordination with all lighting, finishes, equipment, and appurtenances as shown on drawings and specified herein.

E. BID ITEM C:
Bid Item C, Alternate No. C1 (Formerly Alternate B1): Each bidder shall include on their proposal an Alternate price including all labor, material, taxes, overhead, profit, etc. to completely furnish and install additional concrete floor slab at the remainder of the Pole Barn bays (Bays 3 – 7) as shown on drawings and specified herein.

F. BID ITEM C:
Bid Item C, Alternate No. C2 (Formerly Alternate B2): Each bidder shall include on their proposal an Alternate price including all labor, material, taxes, overhead, profit, etc. to completely expand the Pole Barn by one 12’ x 40” bay (480 square feet) including concrete floor slab, all lighting, finishes, equipment, and appurtenances as shown on drawings and specified herein.

G. BID ITEM C:
Bid Item C, Alternate No. C3 (Formerly Alternate B3): Each bidder shall include on their proposal an Alternate price including all labor, material, taxes, overhead, profit, etc. to include the items of Alternate C2 and completely expand the Pole Barn by one 12’ x 40” bay (480 square feet) including concrete floor slab, all lighting, finishes, equipment, and appurtenances as shown on drawings and specified herein.

H. BID ITEM D: N/A

END OF SECTION

07 42 13 - METAL WALL PANELS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes metal wall panels. Framing for new panels shall be coordinated with framing installation to assure warrantable installation.

1.2 PERFORMANCE REQUIREMENTS

A. Delegated Design: Design metal wall panel assembly, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.

B. Structural Performance: Provide metal wall panel assemblies capable of withstanding the effects of the following loads and stresses within limits and under conditions indicated, based on testing according to ASTM E 1592:

1. Wind Loads: Determine loads based on the following minimum design wind pressures:

   a. Uniform pressure of 20 lbf/sq. ft. (957 Pa), acting inward or outward.

2. Deflection Limits: Metal-faced composite wall panel assemblies shall withstand wind loads with horizontal deflections no greater than 1/175 of the span at the perimeter and 1/60 of the span anywhere in the panel of the span.

1.3 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Shop Drawings: Show fabrication and installation layouts of metal wall panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details. Distinguish among factory-, shop-, and field-assembled work.

C. Samples: For each type of exposed finish required.

D. Delegated-Design Submittal: For metal wall panel assembly indicated to comply with performance requirements and design criteria, including analysis data and calculations signed and sealed by the qualified professional engineer responsible for their preparation.

E. Coordination Drawings: Exterior elevations, drawn to scale, on which the following items are shown and coordinated with each other.

F. Product test reports.

G. Maintenance data.

H. Samples of special warranties.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: An employer of workers trained and approved by the manufacturer.

B. Fire-Resistance Ratings: Where indicated, provide metal-faced composite wall panels identical to those of assemblies tested for fire resistance per ASTM E 119 by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

C. Preinstallation Conference: Conduct conference at the project site.

1.5 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal wall panel assemblies that fail in materials or workmanship within specified warranty period.

1. Warranty Period: Five years from date of Final Acceptance.

B. Special Warranty on Panel Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal wall panels that show evidence of deterioration of factory-applied finishes within specified warranty period.

1. Finish Warranty Period: 20 years from date of Final Acceptance.

PART 2 - PRODUCTS

2.1 PANEL MATERIALS

A. Metallic-Coated Steel Sheet: Restricted flatness steel sheet metallic coated by the hot-dip process and prepainted by the coil-coating process to comply with ASTM A 755/A 755M.

1. Surface: Smooth, flat finish.

2. Zinc-Coated (Galvanized) Steel Sheet: ASTM A 653/A 653M, G90 coating designation; structural quality.

3. Exposed Coil-Coated Finishes:
   a. 3-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in both color coat and clear topcoat.

4. Concealed Finish: Apply pretreatment and manufacturer's standard white or light-colored acrylic or polyester backer finish, consisting of prime coat and wash coat with a minimum total dry film thickness of 0.5 mil (0.013 mm).

2.2 PANEL SEALANTS

A. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing; 1/2 inch wide and 1/8 inch thick.

B. Joint Sealant: ASTM C 920 as recommended in writing by metal wall panel manufacturer.

C. Butyl-Rubber-Based, Solvent-Release Sealant: ASTM C 1311.

2.3 MISCELLANEOUS METAL FRAMING

A. Miscellaneous Metal Framing, General: ASTM C 645, cold-formed metallic-coated steel sheet, ASTM A 653/A 653M, G40 (Z120) hot-dip galvanized or coating with equivalent corrosion resistance unless otherwise indicated.

B. Subgirts: Manufacturer's standard C- or Z-shaped sections 0.064-inch (1.63-mm) nominal thickness.

C. Zee Clips: 0.079-inch (2.01-mm) nominal thickness.

D. Base or Sill Angles: 0.079-inch (2.01-mm) nominal thickness.

E. Hat-Shaped, Rigid Furring Channels:

1. Nominal Thickness: As required to meet performance requirements.
2. Depth: 7/8 inch (22 mm) or1-1/2 inches (38 mm)] as required.

F. Cold-Rolled Furring Channels: Minimum 1/2-inch- (13-mm-) wide flange.

1. Nominal Thickness: As required to meet performance requirements.
2. Depth: 3/4 inch (19 mm).
3. Furring Brackets: Adjustable, corrugated-edge type of steel sheet with nominal thickness of 0.040 inch (1.02 mm).
4. Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.062-inch- (1.57-mm-) diameter wire, or double strand of 0.048-inch- (1.22-mm-) diameter wire.

2.4 MISCELLANEOUS MATERIALS

A. Fasteners: Self-tapping screws, bolts, nuts, self-locking rivets and bolts, end-welded studs, and other suitable fasteners designed to withstand design loads. Provide exposed fasteners with heads matching color of metal wall panels by means of plastic caps or factory-applied coating. Provide EPDM, PVC, or neoprene sealing washers.

2.5 CONCEALED-FASTENER, LAP-SEAM METAL WALL PANELS

A. Provide factory-formed metal wall panels designed to be field assembled by lapping and interconnecting side edges of adjacent panels and mechanically attaching through panel to supports using concealed fasteners and factory-applied sealant in side laps. Include accessories required for weathertight installation.

1. Manufacturers: Subject to compliance with requirements, provide products by but are not limited to one of the following:

a. AEP-Span.
b. Alcoa Architectural Products (USA).
c. Architectural Building Components.
d. Architectural Metal Systems.
e. ATAS International, Inc.
f. Berridge Manufacturing Company.
g. CENTRIA Architectural Systems.
h. Dimension Metals, Inc.
i. Fabral.
j. Flexospan Steel Buildings, Inc.
k. Industrial Building Panels.
l. MBCI; Div. of NCI Building Systems.
m. Metal-Fab Manufacturing, L.L.C.
n. Metal Sales Manufacturing Corporation.
o. Metecno-Morin.
p. Petersen Aluminum Corporation.
q. Steelox Systems, L.L.C.
r. United Steel Deck, Inc.; Subsidiary of Bouras Industries Inc.
s. VICWEST; Div. of Jenisys Engineered Products.

2. Profile: R-panel, 22 Ga., 36” Wide, 7/8” corrugated.
3. Material: Zinc-coated (galvanized) steel sheet, 0.034-inch (0.86-mm) nominal thickness.

a. Exterior Finish: 3-coat fluoropolymer.
b. Color: As selected by Architect from manufacturer's full range.

B. Attachment System Components: Formed from material compatible with panel facing.

1. Include manufacturer's standard perimeter extrusions with integral weather stripping, panel clips and anchor channels.

2.6 ACCESSORIES

A. Wall Panel Accessories: Provide components required for a complete metal-faced composite wall panel assembly including trim, copings, fasciae, mullions, sills, corner units, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal-faced composite wall panels unless otherwise indicated.

1. Closures: Provide closures at eaves and rakes, fabricated of same metal as metal wall panels.
2. Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.
3. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1-inch- (25-mm-) thick, flexible closure strips; cut or premolded to match metal wall panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.

B. Flashing and Trim: Formed from 0.018-inch- (0.46-mm-) minimum thickness, zinc-coated (galvanized) steel sheet or aluminum-zinc alloy-coated steel sheet prepainted with coil coating. Provide flashing and trim as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, bases, drips, sills, jambs, corners, endwalls, framed openings, rakes, fasciae, parapet caps, soffits, reveals, and fillers. Finish flashing and trim with same finish system as adjacent metal-faced composite wall panels.

2.7 FABRICATION

A. General: Fabricate and finish metal wall panels and accessories at the factory to greatest extent possible, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.

B. Fabricate metal wall panels in a manner that eliminates condensation on interior side of panel and with joints between panels designed to form weathertight seals.

C. Provide panel profile, including major ribs and intermediate stiffening ribs, if any, for full length of panel.

D. Fabricate metal wall panel joints with factory-installed captive gaskets or separator strips that provide a tight seal and prevent metal-to-metal contact, and that will minimize noise from movements within panel assembly.

E. Sheet Metal Accessories: Fabricate flashing and trim to comply with recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated.

PART 3 - EXECUTION

3.1 PREPARATION

A. Miscellaneous Framing: Install subgirts, base angles, sills, furring, and other miscellaneous wall panel support members and anchorage according to ASTM C 754 and metal wall panel manufacturer's written instructions.

3.2 METAL WALL PANEL INSTALLATION

A. Lap-Seam Metal Wall Panels: Fasten metal wall panels to supports with fasteners at each lapped joint at location and spacing recommended by manufacturer.

1. Lap ribbed or fluted sheets one full rib corrugation. Apply panels and associated items for neat and weathertight enclosure. Avoid "panel creep" or application not true to line.
2. Provide metal-backed washers under heads of exposed fasteners bearing on weather side of metal wall panels.
3. Locate and space exposed fasteners in uniform vertical and horizontal alignment. Use proper tools to obtain controlled uniform compression for positive seal without rupture of washer.
4. Install screw fasteners with power tools having controlled torque adjusted to compress washer tightly without damage to washer, screw threads, or panels. Install screws in predrilled holes.
5. Provide sealant tape at lapped joints of metal wall panels and between panels and protruding equipment, vents, and accessories.
6. Apply a continuous ribbon of sealant tape to weather-side surface of fastenings on end laps; on side laps of nesting-type panels; on side laps of corrugated nesting-type, ribbed, or fluted panels; and elsewhere as needed to make panels weathertight.
7. At panel splices, nest panels with minimum 6-inch (152-mm) end lap, sealed with butyl-rubber sealant and fastened together by interlocking clamping plates.
8. Zee Clips: Provide Zee clips of size indicated or, if not indicated, as required to act as standoff from subgirts for thickness of insulation indicated. Attach to subgirts with fasteners.

3.3 ACCESSORY INSTALLATION

A. General: 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.

B. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "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 will be permanently watertight and weather resistant.

3.4 ERECTION TOLERANCES

A. Installation Tolerances: Shim and align metal 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.

3.5 CLEANING

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

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

END OF SECTION 07 42 13

DIVISION 32 EXTERIOR IMPROVEMENTS
Section 32 18 13 Synthetic Turf Systems

PART 1 GENERAL

1.01 WORK INCLUDES

A. Furnishing, delivery, installation and warranty of a complete synthetic turf system including under field drainage, field turf, field markings and resilient infill material.

1.02 RELATED SECTIONS

A. Section 31 10 00 – Site Clearing

B. Section 31 22 00 – Grading

C. Section 31 23 23 - Fill

D. Section 32 11 23 - Aggregate Base Courses

REFERENCES

E. ASTM Standard Test Methods:
D1577 – Standard Test Method for Linear Density of Textile Fiber
D5848 – Standard Test Method for Mass Per Unit Area of Pile Yarn Floor Covering D418 – Standard Test Method for Testing Pile Yarn Floor Covering Construction D1338 – Standard Test Method for Tuft Bind of Pile Yarn Floor Coverings
D1682 – Standard Method of Test for Breaking Load and Elongation of Textile Fabrics D5034 – Standard Test Method of Breaking Strength and Elongation of Textile Fabrics (Grab
Test) F1015 – Standard Test Method for Relative Abrasiveness of Synthetic Turf Playing Surfaces F1551 – Standard Test Methods for Water Permeability
D2859 – Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials
F355 – Standard Test Method for Shock-Absorbing Properties of Playing Surfaces
F1936 – Standard Test Method for Shock-Absorbing Properties of North American Football Field Playing Systems as Measured in the Field
D1557 – Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort.

F. National Federation of High School (NFHS) Rules, as applicable. FIFA Rules of the Game or NCAA Soccer Rules, as applicable.

1.03 SITE EXAMINATION

A. The Contractor shall verify clearing and grubbing operations were adequate prior to preparing subgrade.

B. The Contractor, along with the Engineer, Grading Subcontractor (if applicable) and Synthetic Turf Subcontractor (if applicable), shall attend a joint inspection of the completed sub-base assembly for the purpose of determining the acceptability of that surface prior to installing the synthetic turf product and to confirm actual site dimensions.

C. The inspection shall include a check for planarity. The finished surface shall not vary from a true plane more than 1/4” in 10 feet when measured in any direction. The Contractor shall provide all required tools and materials needed for the planarity check, which may include but not be limited to, a laser level, string line, straight edge and/or other assessment materials. The Contractor shall mark in the field any

deviations from grade in excess of those specified above, as well as provide a marked-up plan locating the deviations. The Contractor shall correct any deviations to the satisfaction of the Owner, Architect / Engineer, and Synthetic Turf installer.

D. The compaction of aggregate base shall be 95% to Standard Proctor and surface tolerances shall not exceed ¼" over 10 feet.

E. The Contractor shall have an Alabama registered surveyor conduct an elevation survey of the field area in a 25' grid to determine and verify that subgrade elevations and slopes are within previously specified tolerances. This elevation survey may require further verification of smaller areas within the 25' grid if determined necessary by the Owner, or Architect / Engineer.

F. When any or all corrective procedures have been completed, the finished sub-base surface must be re-inspected, with the same representatives attending as the initial inspection. If required, additional repair and inspections are to be conducted until the subbase surface is deemed acceptable by the Owner, Architect / Engineer, and Synthetic Turf Installer.

Once the sub-base surface has been deemed acceptable, the Contractor shall submit a written certificate indicating the acceptance of:

1. The sub-base construction finished surface as totally suitable for the application of the selected synthetic turf system, and
2. The sub-base construction as totally suitable for work under this section to proceed with the final installation and fully warrant the athletic surface installation for the period and conditions specified herein.

G. Commencement of work under this section shall constitute acceptance of the work completed under other sections by the Contractor, acceptance of dimensions of the subbase, and hence, no claims for extra work based upon these conditions will be permitted.

1.04 ENVIRONMENTAL CONDITIONS

A. Install synthetic turf surfacing only when ambient air temperature is 35 degrees F or above and the relative humidity is below 35% or as specified by the product manufacturer. Installation will not proceed if rain is imminent.

B. Install product only when prepared base is suitably free of dirt, dust, and petroleum products, is moisture free and sufficiently secured to prevent unwanted pedestrian and vehicular access.

1.05 QUALITY CONTROL

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section. The Turf Manufacturer:

1. Must be experienced in the manufacturing of tall pile synthetic infill grass systems with the same fiber as specified.
2. Must have at least 5 fields of 65,000 sq. ft. or more of the specified material, fiber, infill material and backing, or similar system, in play in the United States.

B. Installer Qualifications: Company specializing in performing the work of this section.

1. The Synthetic Turf Installer must provide competent workmen skilled in this type of synthetic grass installation. All technicians must have installed tall pile synthetic turf.
2. The designated Supervisory Personnel on the project must be certified, in writing by the Turf Manufacturer, as competent in the installation of this

material, including seaming and proper installation of the infill mixture.

C. Prior to the beginning of installation, the Synthetic Turf Installer shall inspect the subbase. The installer will accept the sub-base in writing when the general contractor provides test results for compaction, planarity and permeability that are in compliance with the synthetic turf manufacturer's recommendations and as stated herein.

D. The Synthetic Turf Installer shall provide the necessary testing data to the Owner that the finished field meets the required initial shock attenuation, as per ASTM F1936.

E. Remove defective Work, whether the result of poor workmanship, defective products or damage, which has been rejected by the Owner or Architect as unacceptable. Replace defective work in conformance with the Contract Documents.

1.06 SUBMITTALS

A. Submit the following with Proposal:

1. Submit the exact product name/description as well as the name and location of the manufacturers and suppliers of each component. Manufacturers and suppliers must not be changed after the contract is awarded unless approved by the Owner in writing.
2. Submit two (2) samples, 12"x12" minimum size, illustrating details of finished product as bid, including full cross section of subbase, turf, and infill material.
3. Product Literature: Submit two (2) copies of manufacturer's recommended installation and maintenance information, including any technical criteria for evaluation of the installed product. Descriptions of all equipment recommended for the maintenance and repair of turf product, as well as a list of any activities not recommended relative to the warranty.
4. Submit a 1-lb sample of the selected bid infill material(s).
5. A letter and specification sheet certifying that the products of this section meet or exceed specified requirements.
6. Certified copies of independent (third-party) laboratory reports on ASTM tests as follows:
   a. Pile Height, Face Width & Total Fabric Weight, ASTM D418 or D5848
   b. Primary & Secondary Backing Weights, ASTM D418 or D5848
   c. Tuft Bind, ASTM D1335
   d. Grab Tear Strength, ASTM D1682 or D5034
   e. Verification that product meets Gmax minimums for ASTM F1936 for life of installation.
7. List of existing installations, including Owner's representative and telephone number, for similar projects. These installations must have used the same manufacturer and product, or similar, proposed for this field, including the same fiber infill and pad, if applicable.
8. Name and experience of the designated supervisory personnel assigned to this project shall be submitted with the proposal. Changes to this assignment after contract can only be made if approved in writing by the Owner. Include a listing of other on-site personnel and their experience.
9. The Synthetic Turf Installer and Turf Manufacturer shall provide evidence that the turf system does not violate any other manufacturer's patents, patents allowed or patents pending.
10. The Synthetic Turf Installer and the Turf Manufacturer shall provide

complete information on its warranty coverage, as noted in Section 1.07. Provide a complete sample copy of all warranty documentation.

B. Prior to ordering of materials:
   1. The Contractor shall submit Shop Drawings indicating:
      a. Field Layout.
      b. Field Marking Plan and details.
      c. Color samples.
      d. Roll/Seaming Layout.
      e. Methods of attachment, field openings and perimeter conditions.
   2. The Turf Manufacturer must submit the fiber manufacturer's name, type of fiber and composition of fiber.
   3. Shop Drawings: Shop drawings are to be submitted for review by the Architect prior to manufacture of product and are to contain information regarding locations of seams, anchorage details, insert details, line and event marking locations and dimensions, turf roll widths and dimensions.

C. Prior to Final Acceptance, the Contractor shall submit to the Owner:
   1. Copies of Maintenance Manuals, which will include all necessary instructions for the proper care and preventative maintenance of the synthetic turf system, including painting and markings. Also address remedial measures for graffiti removal.
   2. Written verification of a suitable training session for the Owner's maintenance staff on how to maintain the completed installation.
   3. Project Record Documents: Record actual locations of seams, drains or other pertinent information.
   4. Under the scope of this Contract the Contractor / Manufacturer shall provide to the Owner annual operations and maintenance assistance for a period of two (2) years after Final Acceptance. Provide contact information and schedule first visit. Quarterly each year provide operations and maintenance that includes:
      a. On-site inspection analysis of seams, infill, inlay, edge, and field inserts.
      b. The contractor shall sweep and groom the field at each quarterly visit.
      c. Synthetic turf report with results of inspection analysis, photos, results of cleaning process, recommendations for future cleaning/maintenance, and Gmax testing results.
      d. The Contractor must execute an annual operations and maintenance assistance plan for Owner approval prior to Final Acceptance.
   5. Test Results: Test certifications issued by an independent testing agency that the synthetic surface meets with the requirements of the ASTM tests noted herein are to be submitted.
   6. Base Conditions Acceptance: Prior to installation of the synthetic turf system, the Contractor is to submit in writing an acceptance of the compacted base and sub-base system as being acceptable by the turf manufacturer and suitable for the successful installation of the proprietary synthetic turf system.

1.07 WARRANTY

A. The Contractor shall provide a minimum ten (10) year, manufacturer's warranty, against defects in materials. Defects shall include, but not be limited to ultraviolet ray fading, degradation, or excessive wear of fiber. Provide a minimum two (2) year manufacturer's warranty against defects workmanship and installation.

B. Warranty shall be subject to the laws of the State of Alabama.

C. Warranty shall be for full replacement of any damaged product within the warranty period. Warranty shall be comprehensive and sufficient to replace entire field if necessary.

D. Warranty shall become effective from the Date of Final Acceptance.

E. Warranty shall include Gmax testing on a biennial basis demonstrating an initial Gmax not exceeding 125 G's initially and not exceeding 175 G's at any time during the warranty period. Test results shall be submitted to the Owner and Architect within 30 days of each test.

F. The Warranty shall contain no usage limits for warranted field.

G. Submit Manufacturer Warranty and ensure that forms have been completed in Owner's name and registered with Manufacturer.

PART 2 PRODUCTS

2.01 SUPPLIER QUALIFICATIONS

A. The Owner has conducted an extensive review of synthetic turf products, including visiting installed sites and review of other agencies' review criteria. Based upon their research, they have established the following criteria for acceptance of a synthetic turf product. No variation from these criteria shall be allowed. The Owner's review is considered final.

B. The Synthetic Turf Installer shall have been in business for a minimum of 5 years.

C. The Synthetic Turf Installer shall have prior experience in the installation of synthetic turf sports applications within the past 5 years in Alabama.

D. The Synthetic Turf Installer must provide a list of references based on previous installations.

2.02 TURF SYSTEM

A. Turf Fiber: XGrass from XGrass® 110 Howell Rd. Dalton, GA 30721 Phone (877) 881-8477 or approved equal.
   1. The turf fiber must be tufted to the backing with a minimum tuft bind of 6 pounds.
   2. The tufted fiber weight shall be a minimum of 45 ounces per square yard.
   3. The turf fiber shall be 100% polyethylene with a minimum yarn density of 8000 denier.
   4. The turf fiber shall be non-abrasive and a minimum of 100 microns thick.
   5. The turf fiber must contain less than 100 ppm of lead in all colors.
   6. The turf fibers must be from the same dye lot.
   7. The turf fiber shall be UV resistant and be guaranteed against fading for the full warranty period of 10 years.
   8. The turf fiber must be a minimum of 2 inches in height with a minimum tufting gauge length of 3/8 of an inch.
   9. The turf fiber must retain a minimum of 75% of its original fibril width after 10,000 cycles on the Lisport Studded Roll Test Machine.

B. Backing Material Primary Backing:
   1. Primary backing must be a dual layered woven polypropylene material.
   2. Primary backing system weight must be a minimum of 7.0 ounces/square yard.

Secondary Backing:

1. Secondary backing system weight must be a minimum of 12 ounces/ square yard.
2. Secondary backing system shall consist of a hot melt application created from the injection of a thermoplastic polyolefin compound that encapsulates the tufted bundle before the lamination of a 100% virgin polypropylene nonwoven geotextile fabric.
    a. Note: Polyurethane is not an acceptable material for use in the secondary backing system.
3. Secondary backing system shall have minimum tuft bind strength of 6 pounds.

C. Turf roll seams to be securely joined on site so that no openings larger than the porous backing mat openings are created. Roll width to coincide with tufted-in sports line markings where possible. All turf fabric edges to be securely bound as per the perimeter detail design. Adhesives for joining seams of turf together shall be Nordot 34G Glue or equivalent.

D. Fabric surface shall be constructed and installed in minimum widths of 15 feet with no longitudinal or transverse seams, except for inlaid lines with a finish roll assembly. Seams shall be 15'-0" apart. Rolls that do not comply with the proper length or conform to the seaming diagram, as approved prior to installation, shall be rejected from the site. No fitted pieces shall be allowed to true alignment. Parallel seams only are acceptable in the main playing areas. No head seams are acceptable on the sports fields.

F. The entire system shall be resistant to weather, including ultra-violet light and heat degradation; insects, rot, mildew and fungus growth and be non-allergenic and non-toxic.

G. Fiber Colors: Submit samples of the full available color palette for owner approval prior to placing order for turf including at a minimum the below listed colors:
Color 1: Grass, green in standard color, as selected by the Owner

H. The turf material shall be non-combustible and pass the DIN standard Pill Burn test or ASTM D 2859.

2.03 SYNTHETIC GLUE MATERIAL

A. Adhesive products shall be Nordot 34G or equivalent as approved by the engineer.

B. Any adhesive products required for the installation of a proposed turf system shall be purpose-suited to the system. The material and application methods shall be as recommended by the adhesive manufacturer.

C. Disposal of adhesive containers and unused adhesives as well as any fees resulting from such disposal shall be the responsibility of the Contractor.

2.04 INFILL MATERIAL

A. The synthetic infill material shall consist of a blend of graded, silica sand and treated and mixed ground rubber.
    1. Sand: specially-graded, dust-free silica sand shall be placed on the turf in a minimum quantity of 1.5 pounds/ square foot and shall include test results that demonstrate the following minimum properties:
        a. Color – tan
        b. Sand shall be round non-angular in shape
        c. Roundness – 0.6+

d. Hardness - 0.6-0.8 on the Mohs Scale
e. Size – 1.00 mm ± 0.15 mm
f. Density – 90 – 95 lbs/ cu ft
g. Dust - < 0.001 %
h. Angle of Repose - < 30°
i. Sand shall be heavy metal safe

2. Rubber: Rubber is SBR ambient (styrene butadiene rubber) rubber, color black, 10-18 mesh, that is 99% fiber free and is heavy metal safe. Rubber shall be placed on the turf in a minimum quantity of 3.5 pounds/ square foot and shall be of the following Mesh Size Distribution:

Mesh Size	% Retained
10	0-15%
12	5-30%
16	40-70%
20	15-35%
30	0-10%
40	0-1%
Pan	0-1%

B. The infill materials shall be installed to allow an exposed fiber of not less than 1/2 inch after finish brushing.

C. Sufficient quantities of the top-dressing infill material must be stored on site at the time of installation to be used 90 days after the completion of the installation to mitigate the differential settling of high traffic zones on the field. This fill addition must be carried out by the Contractor within the time specified above.

PART 3 EXECUTION

3.01 GENERAL

A. Installation of the synthetic turf system is to comply with the manufacturer's recommendations, requirements and recommendations and the reviewed and approved shop drawings.

B. Perform all work in strict accordance with the Contract Documents and the manufacturer's specifications and instructions. Only those skilled technicians proposed in the bid phase are to be assigned to this project by the Contractor.

C. The designated Supervisor for the Synthetic Turf Installer must be present during any and all construction activity associated with the field installation, including testing, cleanup and training.

D. All products and equipment are to be from sources approved by the authorized turf manufacturer and conform to the specifications.

3.02 PRODUCT DELIVERY, STORAGE & HANDLING

A. Deliver products to site in original containers and wrappers as agreed between the Engineer and Contractor. Inspect products upon delivery for damage.

B. Store products in a location and in a position that protects them from crush damage or any other defects.

C. Handle and store (on and off site) all materials safely to ensure their physical properties are not adversely affected and that they are not subject to vandalism or damage.

D. Rubber and sand infill shall arrive dry and loose. No rubber shall be accepted that is bulked or solid.

E. Adhesives shall arrive in dry, sealed containers.

F. Rubber infill shall arrive in large sacks or bags without tears or loose material about.

3.03 PLUGS AND FITTINGS

A. All permanent field fittings penetrating the turf mat indicated on the drawings shall be securely sealed to the mat surface so that no infill material is allowed to spill to the substrate.

3.04 TURF INSTALLATION

A. Install synthetic turf system in accordance with the manufacturer's written installation instructions.

B. All inlaid areas shall have full fastenings and no loose areas. At no time can pulling on the section separate the material.

C. Turf shall be attached to the perimeter edge as shown in the construction plans and as per the manufacturer.

D. All seams and inlaid areas shall be brushed thoroughly before infill materials are installed.

E. All terminations shall be as detailed and approved in the shop drawings.

3.05 INFILL INSTALLATION

A. The synthetic turf shall be thoroughly brushed prior to installation of infill materials to remove wrinkles.

B. The infill materials shall be installed in layers, in accordance with the turf manufacturer's installation instructions. Any mix of materials shall be uniform and even in thickness.

C. Turf shall remain free draining at all times before, during and after the infill materials are installed.

3.06 FIELD MARKINGS

A. Sports field lines and event markings as per the Contract Documents shall be accurately positioned and marked in accordance with the current rules of the governing body. All lines shall be straight and true along the length of the marked boundary to within ½" along the length of any such boundary.

B. All markings shall be accurately measured and applied in widths and colors as required by the governing body and selected from the manufacturer's range of standard colors, or not more than one custom color if the manufacturer's standard colors do not meet the Owner's requirements.

3.07 TESTING

A. At the time of Final Acceptance and biennially during the life of the warranty, the Contractor shall perform a series of tests by use of an independent testing agency to evaluate the shock absorption characteristics of the field. The tests shall be performed on a 50 foot grid in both directions using an accelerometer in accordance with ASTM F1936 and ASTM F355. Test the field at a minimum of 12 points and

submit the results to the Owner within 30 days of testing. At no point shall any reading exceed 175 Gmax during the life of the warranty. If any point exceeds the maximum deceleration, the Contractor shall make corrections to provide the allowable Gmax deceleration at the Contractor's expense.

3.08 CLEANING AND COMPLETION

A. Protect all installed work from other construction activities as installation progresses.

B. The Contractor shall keep the area clean throughout the construction period and free from debris.

C. On completion of the installation, thoroughly clean surfaces and site of all refuse resulting from the installation process, including adjacent surfaces.

D. Any damage to existing fixtures or facilities resulting from the installation of the synthetic turf system shall be repaired to original condition at the Contractor's expense prior to Final Completion and commencement of the Warranty Period.

E. A deficiency list will be produced by the Owner and Architect at the conclusion of the project. All installation project deficiencies not in dispute must be remedied by the Contractor prior to the issuance of a certificate of Final Acceptance.

F. Contractor to provide a written acceptance by the turf manufacturer that the turf and base system is installed in accordance with their recommendations prior to final completion.

END OF SECTION

BID ITEMS / ALTERNATES

BID ITEM A FOR THIS PROJECT INCLUDES COMPLETE DEMOLITION AND REMOVAL FROM THE SITE OF BUILDINGS, UTILITIES, PAVING, FENCING, ETC. ASSOCIATED WITH BUILDINGS 1317, 1319, 1378, AND 1378A AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

BID ITEM B FOR THIS PROJECT INCLUDES COMPLETE CONSTRUCTION OF A 10,098 SQUARE FOOT OPEN SHED PRE-ENGINEERED METAL BUILDING (PEMB) WITH NINE ACFT LANES OF ARTIFICIAL FIELD TURF WITH A CONCRETE APRON AT THE PERIMETER OF THE TURF AREA, LIGHTING, ALL FINISHES, EQUIPMENT, AND APPURTENANCES AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

ALTERNATE B1 FOR THIS PROJECT WILL CONSIST OF EXPANDING THE OPEN SHED PORTION OF THE BUILDING BY 3,060 SQUARE FEET THUS ADDING THREE MORE ACFT LANES OF FIELD TURF WITH A CONCRETE APRON AT THE PERIMETER OF THE TURF AREA, LIGHTING, ALL FINISHES, EQUIPMENT, AND APPURTENANCES AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

ALTERNATE B2 FOR THIS PROJECT WILL CONSIST OF EXPANDING THE OPEN SHED PORTION OF THE BUILDING TO INCLUDE THE ITEMS OF ALTERNATE B1 AND BY ADDING 3,060 SQUARE FEET OF BUILDING AREA THUS ADDING THREE MORE ACFT LANES OF FIELD TURF WITH A CONCRETE APRON AT THE PERIMETER OF THE TURF AREA, LIGHTING, ALL FINISHES, EQUIPMENT, AND APPURTENANCES AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

ALTERNATE B3 FOR THIS PROJECT WILL CONSIST OF INSTALLING PRE-FINISHED METAL LINER PANELS AND SCRIM ENCASED R-19 BATT INSULATION AT THE BOTTOM OF THE OPEN SHED PORTION OF THE BUILDING IN COORDINATION WITH ALL LIGHTING, FINISHES, EQUIPMENT, AND APPURTENANCES AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

BID ITEM C FOR THIS PROJECT WILL CONSIST OF THE CONSTRUCTION OF A NEW GROUNDS SERVICES & EQUIPMENT (GSE) COMPOUND AND A 2,880 SQUARE FOOT POLE BARN FOR STORAGE OF FACILITY / GROUNDS MAINTENANCE EQUIPMENT ADJACENT TO BUILDING 2299. WORK SHALL INCLUDE CONCRETE SLAB PAVING WITHIN THE FIRST TWO BAYS (BAYS 1-3) AND ALL FINISHES, EQUIPMENT, AND APPURTENANCES AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

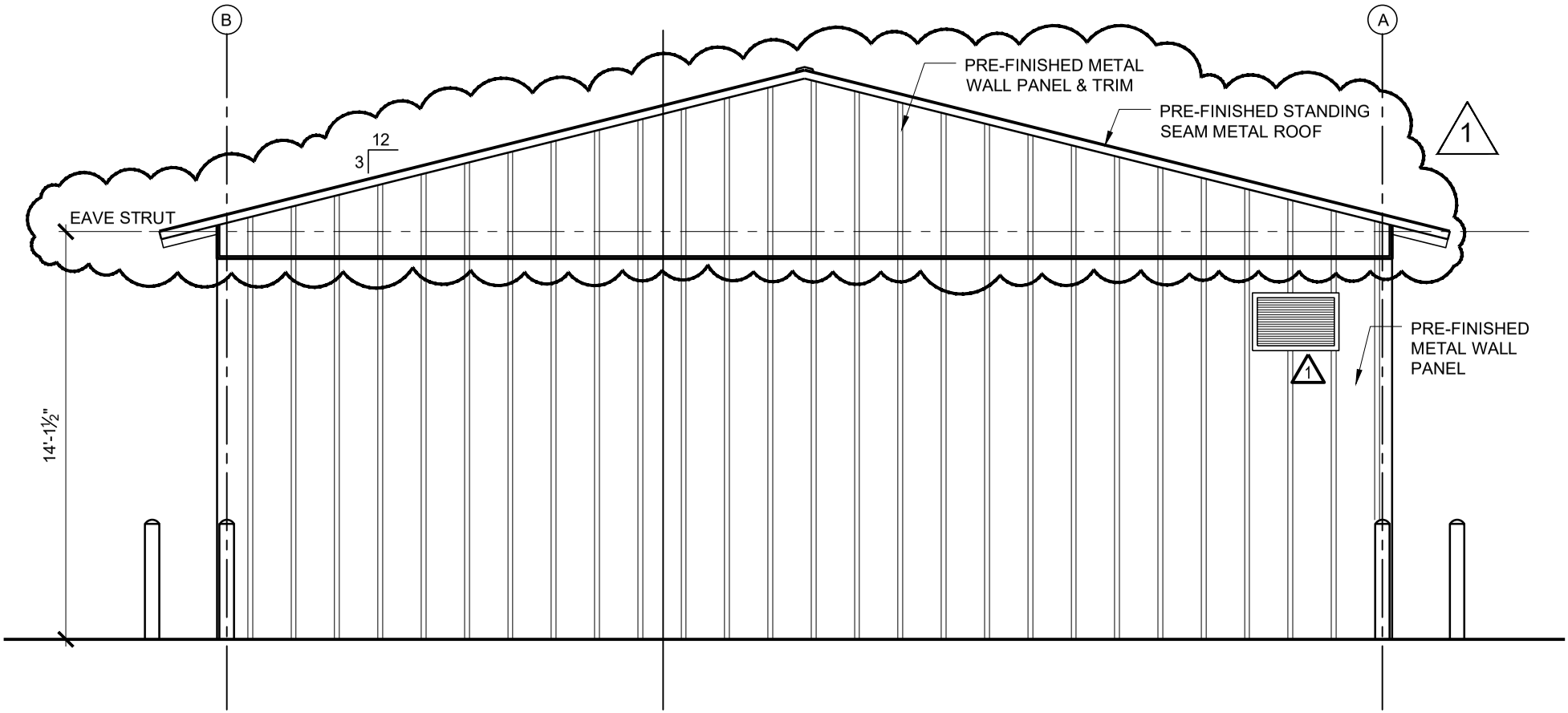
ALTERNATE C1 FOR THIS PROJECT WILL CONSIST OF EXPANDING THE CONCRETE SLAB PAVING WITHIN THE POLE BARN TO INCLUDE THE REMAINDER OF THE BAYS (BAYS 3-7) AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

ALTERNATE C2 FOR THIS PROJECT WILL CONSIST OF EXPANDING THE POLE BARN BY ONE 12' X 40' BAY (480 SQUARE FEET) WITH CONCRETE SLAB PAVING INCLUDING ALL LIGHTING, FINISHES, EQUIPMENT, AND APPURTENANCES AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

ALTERNATE C3 FOR THIS PROJECT WILL CONSIST OF EXPANDING THE POLE BARN TO INCLUDE THE ITEMS OF ALTERNATE C2 AND BY ADDING ONE 12' X 40' BAY (480 SQUARE FEET) WITH CONCRETE SLAB PAVING INCLUDING ALL LIGHTING, FINISHES, EQUIPMENT, AND APPURTENANCES AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

1

BID ITEM D FOR THIS PROJECT WILL CONSIST OF THE CONSTRUCTION OF A 1,371 SQUARE FOOT, FULLY ENCLOSED AREA CONTAINING RESTROOMS AND A STORAGE AREA FOR THE FITNESS AND TESTING EQUIPMENT ADJOINING BID ITEM B TO INCLUDE ALL FINISHES, EQUIPMENT, AND APPURTENANCES AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.



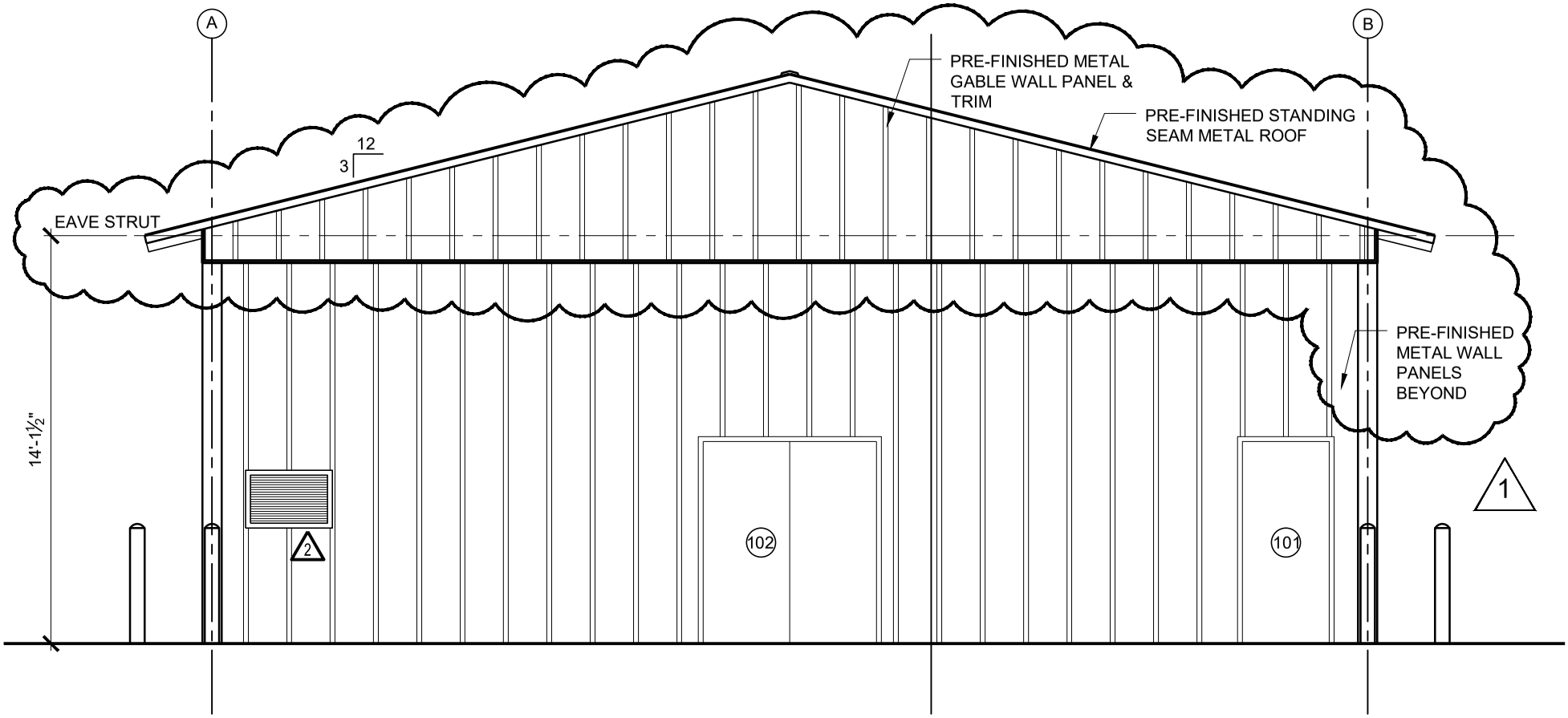
A
A2.1

BID ITEM B - POLE BARN ELEVATION

SCALE: 3/16" = 1'-0"

22-1156
FMTC SOLDIER FITNESS TRAINING AND
TESTING FACILITY
19 SEPTEMBER 2022
BI.B/A2.1/SD-3

JMR+H
Architecture, PC



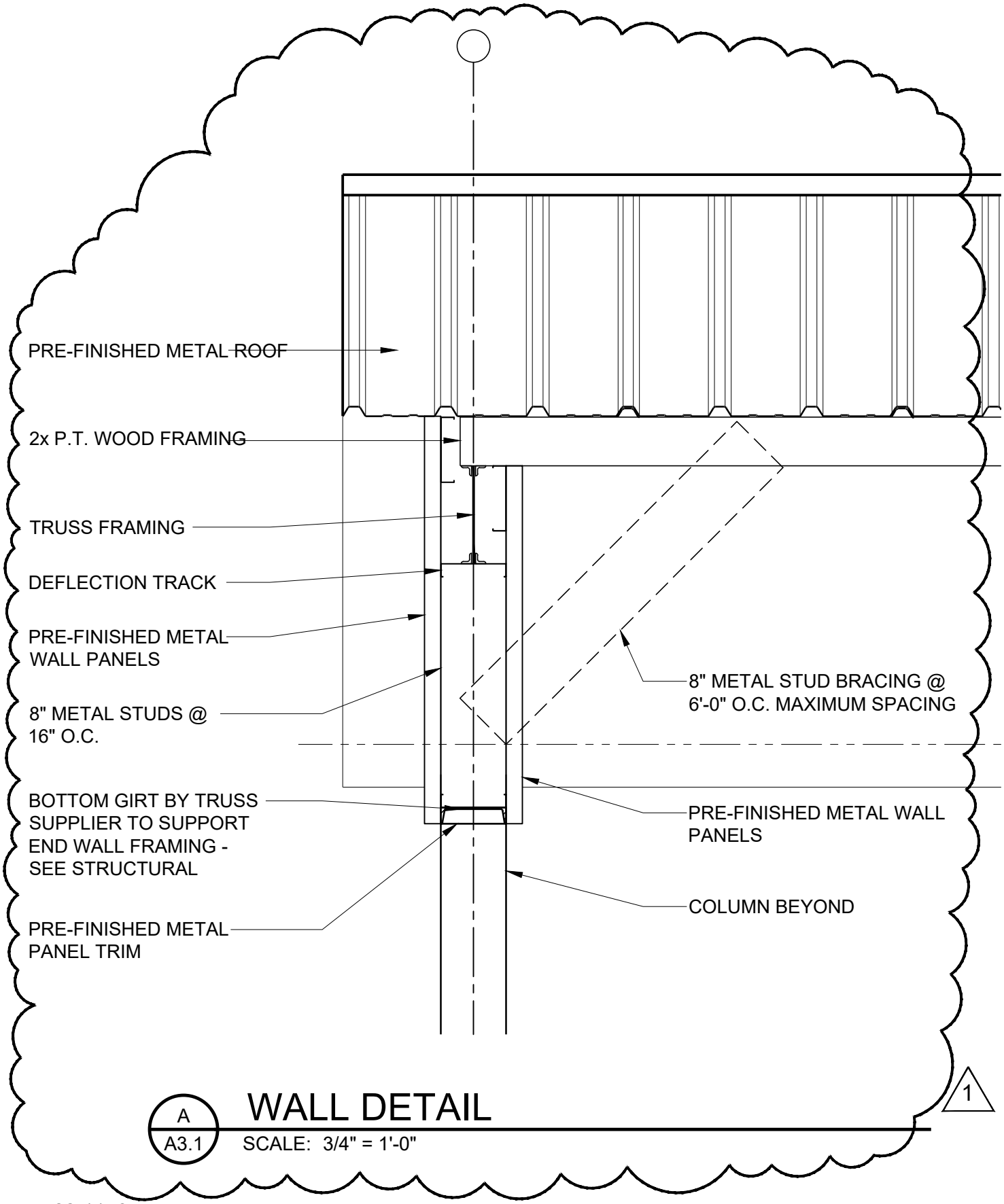
C
A2.1

BID ITEM B - POLE BARN ELEVATION

SCALE: 3/16" = 1'-0"

22-1156
FMTC SOLDIER FITNESS TRAINING AND TESTING FACILITY
19 SEPTEMBER 2022
BI.B/A2.1/SD-4

JMR+H
Architecture, PC



A / A3.1

WALL DETAIL

SCALE: 3/4" = 1'-0"

22-1156
FMTC SOLDIER FITNESS TRAINING AND TESTING FACILITY
19 SEPTEMBER 2022
BI.B/A3.1/SD-5

JMR+H
Architecture, PC

SURVEYOR'S NOTES:

(1) SURVEYOR HAS MADE NO INVESTIGATIOIN OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS WHICH AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.

(2) SINCE THE DATE OF THIS SURVEY, CONDITIONS BEYOND THE KNOWLEDGE OR CONTROL OF LARRY WALKER LAND SURVEYING, INC. MAY HAVE ALTERED THE VALIDITY AND CIRCUMSTANCES SHOWN OR NOTED HEREON.

(3) DECLARATION IS MADE TO THE ORIGINAL PURCHASER OF THIS SURVEY. IT IS NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.

(4) SURVEY IS VALID ONLY IF PRINT HAS THE ORIGINAL SEAL AND SIGNATURE (IN RED INK) OF THE SURVEYOR PRESENT.

(5) ALL BUILDINGS, SURFACE AND SUBSURFACE IMPROVEMENTS ON AND ADJACENT TO THE SITE ARE NOT NECESSARILY SHOWN.

(6) ONLY ACTS OF POSSESSION, IF ANY, THAT ARE VISIBLE FROM CASUAL INSPECTION OF THE PROPERTY ARE SHOWN HEREON. NO WARRANTY OR GUARANTEE IS IMPLIED AS TO THE EXISTENCE OF ACTS OF POSSESSION BY ADJOINERS TO THE LANDS SHOWN AND DESCRIBED HEREON.

(7) THE PROPERTY LINES SHOWN ON THE SURVEY PLAT ARE BASED UPON OLD ESTABLISHED CORNERS AND AGREED CORNERS BETWEEN ADJOINING LAND OWNERS AND MAY OR MAY NOT BE THE LINES OF THE ALIQUOT PARTS OF THE SECTION AND CARRY NO WARRANTY THAT THEY ARE THE LINES OF THE ALIQUOT PARTS OF THE SECTION.

(8) DATE FIELD SURVEY COMPLETED (12/19/19)

(9) DATE DRAWING COMPLETED (01/13/20)

(10) ( ) RECORDED BEARINGS, ANGLES OR DISTANCES.

(11) POB POINT OF BEGINNING

(12) POC POINT OF COMMENCEMENT

(13) TYPE OF SURVEY: PROPERTY BOUNDARY SURVEY

I HEREBY STATE THAT ALL PARTS OF THIS SURVEY AND DRAWING HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR SURVEYING IN THE STATE OF ALABAMA TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

1

Point Table				
Point #	Raw Description	Elevation	Northing	Easting
1	pk nail set	750.967	1175957.1610	669968.0310
2	pk nail set	755.543	1175824.8053	670306.9785

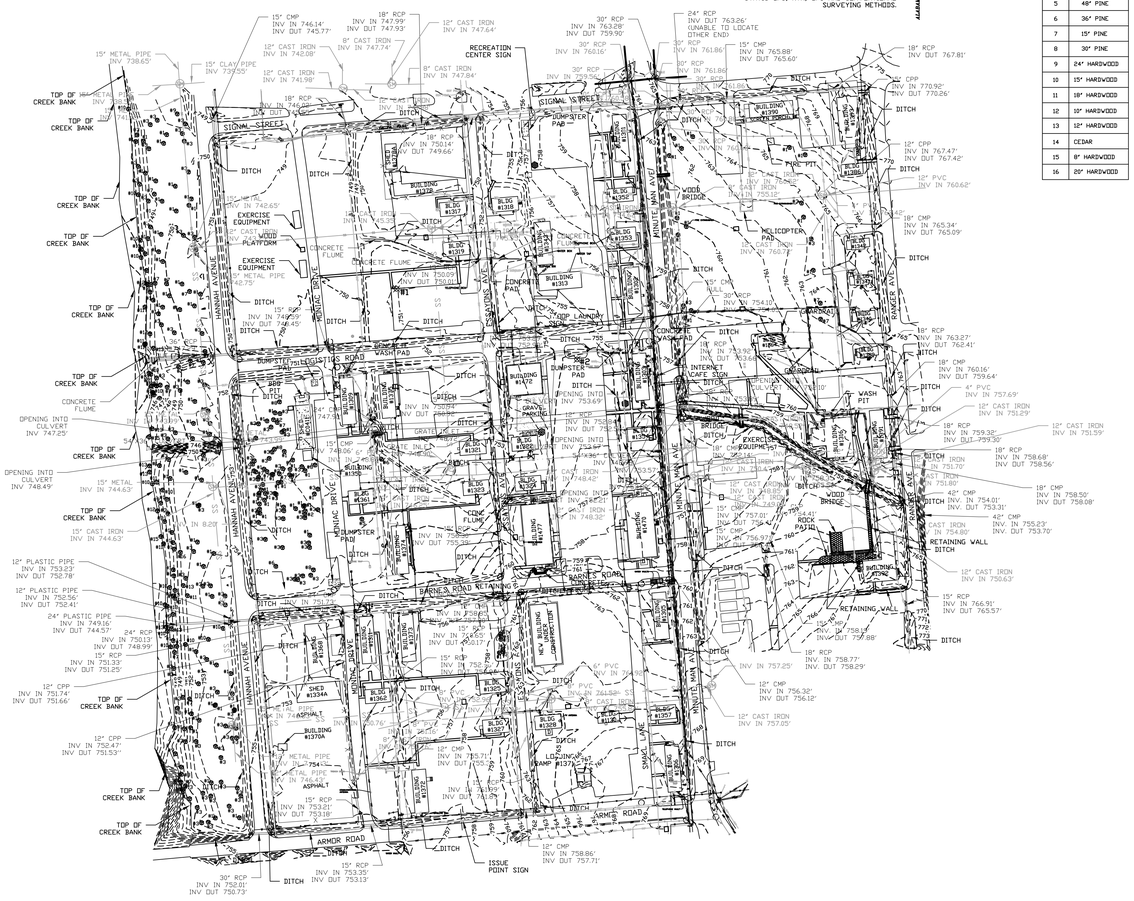
GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

GRID NORTH & BEARINGS SHOWN ARE IN REFERENCE TO NAD83 ALABAMA EAST ZONE STATE PLANE COORDINATES ESTABLISHED BY STATIC GPS, RTK, GPS AND CONVENTIONAL SURVEYING METHODS.

GRID NORTH EAST ZONE



LEGEND	
	SIGN
	SEWER MANHOLE
	STORM MANHOLE
SS	SEWER LINE
W	WATER LINE
G	GAS LINE
OHP	OVERHEAD POWER
	GUY POLE
UGT	UNDERGROUND TELEPHONE

LEGEND	
	TREE
	NAIL
	STOP SIGN
	YIELD SIGN
	SPEED LIMIT SIGN
	EXISTING IRON PIN
CONCRETE	CONCRETE
	GRATE INLET
	GAZEBO
	DECK
	A/C UNIT
	WATER METER
X X	FENCE LINE
	WATER VALVE BOX
	POWER POLE
OHP	OVERHEAD ELECTRIC LINE

TREE LEGEND	
#	TYPE OF TREE
1	18" PINE
2	12" PINE
3	24" PINE
4	18" CEDAR
5	48" PINE
6	36" PINE
7	15" PINE
8	30" PINE
9	24" HARDWOOD
10	15" HARDWOOD
11	18" HARDWOOD
12	12" HARDWOOD
13	12" HARDWOOD
14	CEDAR
15	8" HARDWOOD
16	20" HARDWOOD

REVISIONS

JMR+H ARCHITECTURE
FORT MCCLELLAN BARRICKS
CALHOUN COUNTY, ALABAMA

JOB INFORMATION			
DRAWN BY:	ADW		
CHECKED BY:	LWW		
FIELD NOTES:	201/906 PG. 35		
SURVEY CREW:	LW, CB		
SURVEY #:	S19-498	S-T-R:	*

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EMAIL: LARRY.LWLS@GMAIL.COM

AS REQUIRED BY ALABAMA LAW
CALL 2 WORKING DAYS BEFORE EXCAVATION
811
ALABAMA LINE LOCATION CENTER, INC.

JMR+H
Architecture, PC
445 Dexter Avenue
Suite 5050
Montgomery, Al 36104

Phone: (334) 420-5672
Fax: (334) 420-5692

STATE OF ALABAMA
J.MICHAEL RUTLAND
2149
TIMOTHY R. HOLMES
3188
REGISTERED ARCHITECT

FMTC
SOLDIER FITNESS TRAINING AND TESTING FACILITY
FT. MCCLELLAN, ALABAMA
IFB # AC-22-B-0038-S

CONSTRUCTION DOCUMENTS

Project Number: 22-1165
Date: 31 AUGUST 2022
Revisions:
1 9-19-22 ADDENDUM #2

Sheet Description

SFTTF EXISTING CONDITIONS SURVEY

Sheet Number

S1
SD-6

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Montgomery, Al 36104

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STATE OF ALABAMA – J.MICHAEL RUTLAND 2149 – TIMOTHY R. HOLMES 3188 – REGISTERED ARCHITECT

FMTC SOLDIER FITNESS TRAINING AND TESTING FACILITY

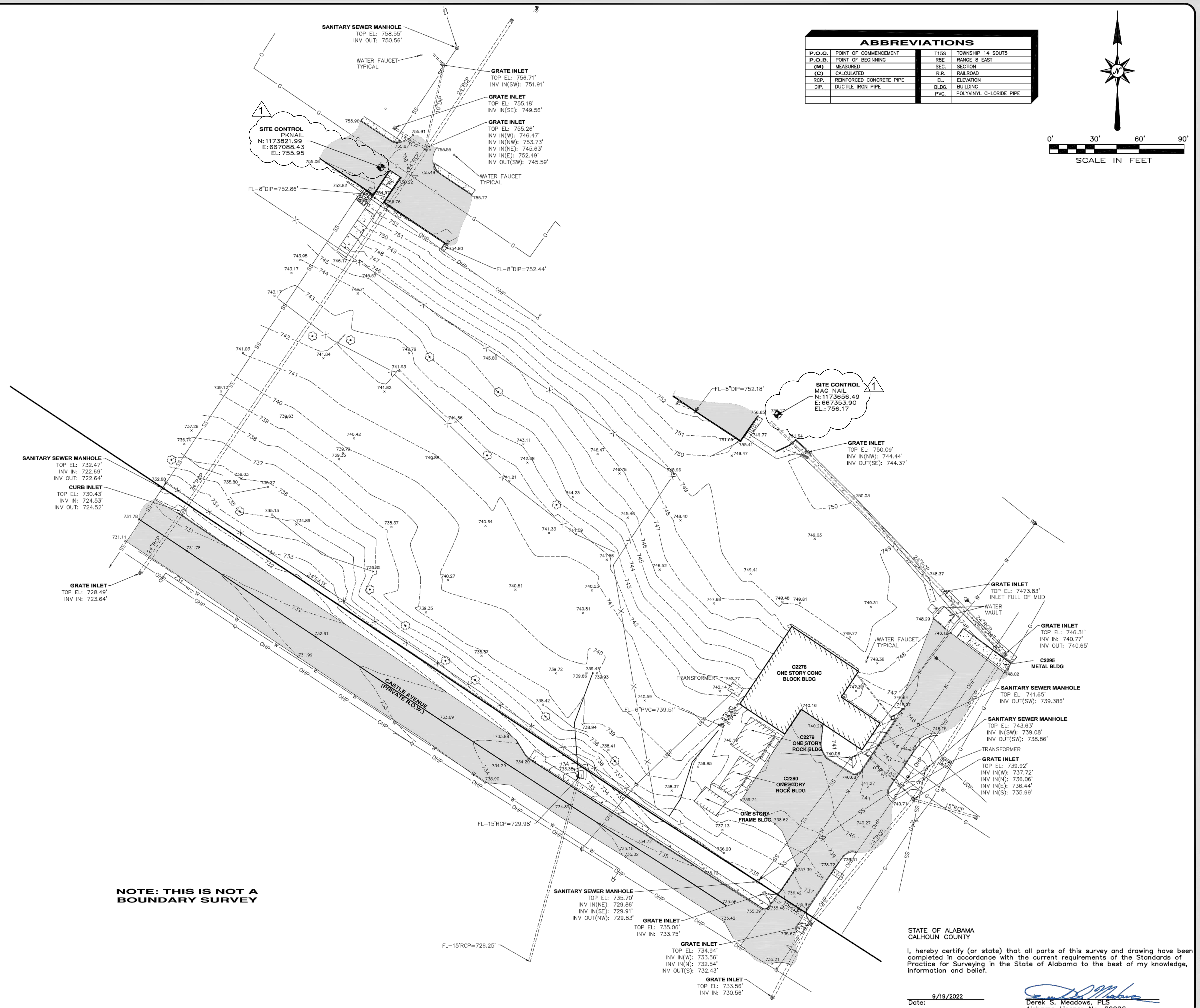
FT. MCCLELLAN, ALABAMA
IFB # AC-22-B-0038-S

LEGEND

Symbol	Description
● IPF	IRON PIN FOUND
● IPS	IRON PIN SET (5/8" REBAR w/CAP)
○	CALCULATED POINT
⌀	UTILITY POLE w/GUY
—OHP—	OVERHEAD POWER LINE
x 562.35	SPOT ELEVATION
—SS——SS—	SANITARY SEWER LINE
—W——W—	UNDERGROUND WATER LINE
—G——G—	UNDERGROUND GAS LINE
—UGP——UGP—	UNDERGROUND POWER LINE
ROW	RIGHT OF WAY
▲	WATER VALVE
◪	WATER METER
◎	GAS REGULATOR
—X——X——X—	SILT FENCE
—X——X——X—	CHAIN LINK FENCE
	ASPHALT SURFACE
	CONCRETE SURFACE
◎	SANITARY SEWER MANHOLE
◕	BOLLARD
o-▭	LIGHT POLE
⊗	STORM SEWER MANHOLE

ABBREVIATIONS

P.O.C.	POINT OF COMMENCEMENT	T15S	TOWNSHIP 14 SOUT5
P.O.B.	POINT OF BEGINNING	R8E	RANGE 8 EAST
(M)	MEASURED	SEC.	SECTION
(C)	CALCULATED	R.R.	RAILROAD
RCP.	REINFORCED CONCRETE PIPE	EL.	ELEVATION
DIP.	DUCTILE IRON PIPE	BLDG.	BUILDING
		PVC.	POLYVINYL CHLORIDE PIPE



NOTES

1. All easements and rights of way of which the surveyor has knowledge are shown hereon; others may exist of which the surveyor has no knowledge and of which there is no observable evidence. No Title Commitment performed, certified to or supplied by client. Without said Title Commitment no guarantee can be made by the surveyor as to the location of easements.

2. All utilities of which the surveyor has knowledge are shown hereon. Routings of underground utilities were drawn based on utility maps provided by respective utility companies which should be considered approximate and should be marked on the ground by the utility companies prior to construction. The telephone numbers for the Alabama Line Location Center (MISSALL) are 252–4444 (Birmingham area) and (800) 292–8525 (elsewhere). 811 confirmation number is 220682379. Note to the client, insurer, and lender– With regard to underground utilities, information from the sources above will be combined with observed evidence of utilities to develop a view of the underground facilities. However, lacking excavation, the exact location of underground features cannot be accurately, completely, and reliably depicted. In addition, in some jurisdiction, 811 or other similar utility locate requests from surveyors may be ignored or result in an incomplete response, in which case the surveyor accepts no responsibility for the location of utilities. Where additional or more detailed information is required, the client is advised that excavation may be necessary.

3. No attempt has been made and no guarantees are hereby given as to the location of sub–surface foundations.

4. Contours and spot elevations shown hereon are based on U.S.G.S. datum (NAVD 88). Bench Mark PID #DM3485 and elevation of 670.95.

5. According to the Flood Insurance Rate Map (FIRM) for Calhoun County, Alabama (community–panel number 01015C 0306 E, dated March 16, 2016), all of the subject property lies within Zone X, defined as "areas determined to be outside the 0.2% annual chance floodplain."

6. North arrow and bearings shown hereon are based on Transverse Mercator Projection – Alabama West Zone – NAD 83 adjusted 2011. Using Global Positional System (GPS) and derived by static observation. Using Base Station: Designation: AL AS CORS ARP, PID DM3485 Combined Factor: 0.999927906 Convergence Factor: +0 00 05.3

N:\2020 Projects\Williams Blackstock Architects\20-0114_FMTC Allied Trade Shop_Anniston AL\Survey\20-0114 7-05-22 survey xref.dwg Sep 19,2022 – 4:06 pm

811 Know what's below. Call before you dig. Dial 811 Or Call 800-282-7411

I HEREBY CERTIFY (OR STATE) THAT ALL PARTS OF THIS SURVEY AND DRAWING HAVE BEEN COMPLETED IN THE ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR SURVEYING IN THE STATE OF ALABAMA TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF.

STATE OF ALABAMA
CALHOUN COUNTY

I, hereby certify (or state) that all parts of this survey and drawing have been completed in accordance with the current requirements of the Standards of Practice for Surveying in the State of Alabama to the best of my knowledge, information and belief.

Date: 9/19/2022

Derek S. Meadows, PLS
Alabama License No. 29996

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ALABAMA LINE LOCATION CENTER, INC.

REVISIONS

NO.	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
-	-	-

QUARTER - SECTION: SE QUARTER OF THE NE QUARTER
SECTION 16 | TOWNSHIP 15 SOUTH | RANGE 8 EAST

TITLE: TOPOGRAPHIC SURVEY
FMTC ALLIED TRADE SHOP
BAND ROAD
ANNISTON, AL
FOR
WILLIAMS BLACKSTOCK

DWN. BY	CKD. BY	SCALE	LAST FIELD SURVEY DATE
CMP	DSM	1" = 30'	3/23/2022
CREW CHIEF	FIELD BOOK/PAGE	DWG. NAME	COORDINATE FILE
JAM	2728/26	22-0114	22-0114FTMCATSTOPO

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CIVIL ENGINEERING, LAND SURVEYING, PLANNING, TRAFFIC & TRANSPORTATION
1550 WOODS OF RIVERCHASE DRIVE, SUITE 200
HOOVER, ALABAMA 35244
PHONE: (205) 942-2486
FAX: (205) 942-3033
www.Gonzalez-Strength.com

ALABAMA LICENSED PROFESSIONAL SURVEYOR No. 29996 DEREK S. MEADOWS
NOT VALID UNLESS SIGNATURE IS SHOWN

DWG. NO. S1 - R0
PROJECT 20-0114

CONSTRUCTION DOCUMENTS

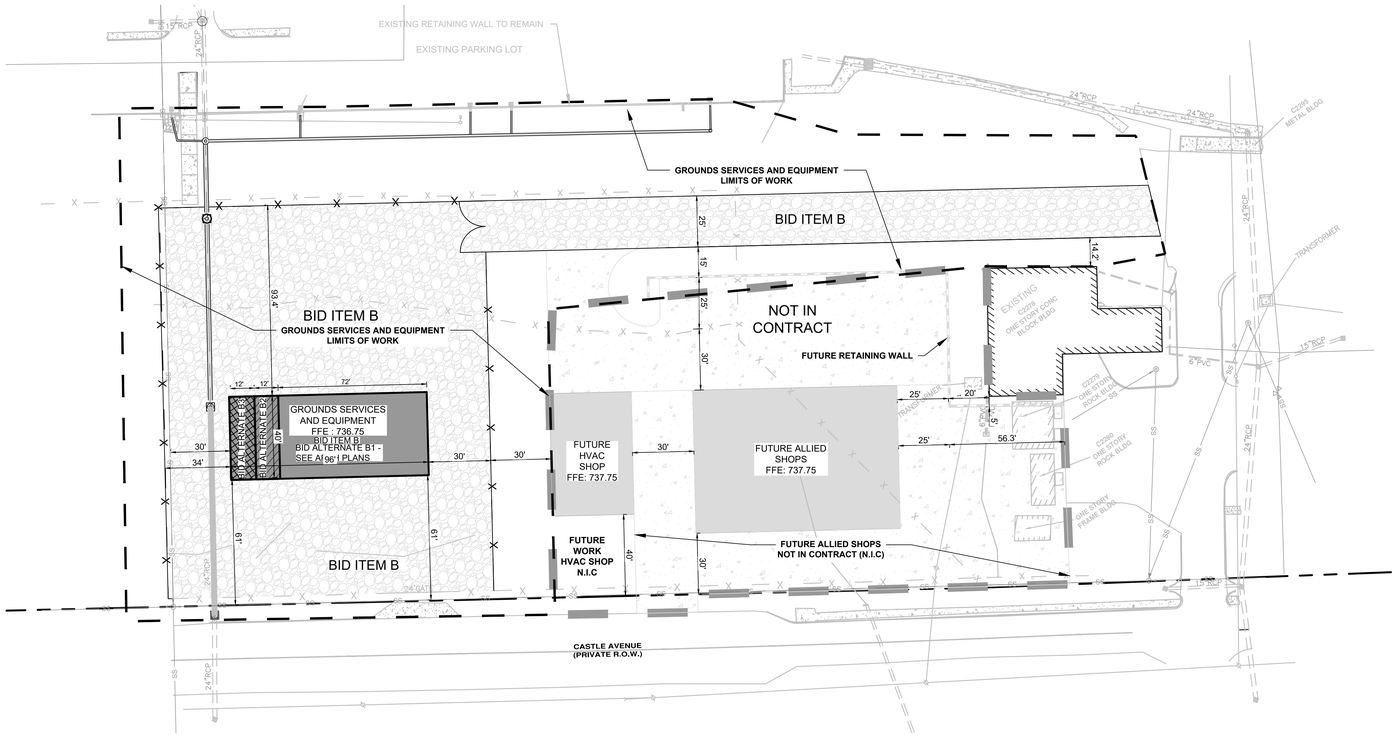
Project Number: 22-1165
Date: 31 AUGUST 2022
Revisions:
1 9-19-22 ADDENDUM #2

Sheet Description

GROUNDS SERVICES AND EQUIPMENT EXISTING CONDITIONS SURVEY

Sheet Number

S2
SD-7



MASTER PLAN SITE LAYOUT

1' = 30'

VICINITY MAP
N.T.S.

LAYOUT/UTILITY NOTES

BID ITEM B

1. 8" DENSE GRADE AGGREGATE BASE REQ'D
2. SECURITY FENCING REQ'D. SEE ARCH PLANS.
3. VEHICLE ACCESS GATE REQ'D. SEE ARCH PLANS.
4. 1" SERVICE TAP TO EX. WATER MAIN REQ'D. CONTACT ANNISTON WATERWORKS AND SEWER BOARD FOR FEES AND REQUIREMENTS (TYP.)
5. CUT AND PATCH EXISTING PAVEMENT IN LIKE KIND REQ'D (TYP.)
6. 1" DOMESTIC WATER METER REQ'D IN ACCORDANCE WITH ANNISTON WATER WORKS AND SEWER BOARD MINIMUM STANDARDS AND REQUIREMENTS
7. 1" BACKFLOW PREVENTER REQ'D IN ACCORDANCE WITH ANNISTON WATER WORKS AND SEWER BOARD MINIMUM STANDARDS AND REQUIREMENTS
8. 1" DOMESTIC WATER SERVICE (TYPE K COPPER) REQ'D. PROVIDE ¾" FREEZE PROOF WATER SPIGOT AT THE CORNER OF THE BUILDING. SEE DETAIL (TYP.)
9. OVERHEAD POWER REQ'D. CONTRACTOR TO COORDINATE POWER SERVICE WITH ALABAMA POWER CO.
10. POLE MOUNTED TRANSFORMER AND METER REQ'D. SEE SITE ELECTRICAL PLANS.
11. EXISTING SECURITY FENCING BEYOND PROJECT LIMITS AND ALONG CASTLE AVENUE TO REMAIN AND TIE TO PROPOSED FENCING IMPROVEMENTS TO PROVIDE SECURE PERIMETER. (TYP.)
12. SAWCUT AND REMOVE EXISTING CONCRETE STEPS (TYP.)
13. SANITARY SEWER MAIN TO REMAIN. CONTRACTOR TO PROTECT AT ALL TIMES DURING CONSTRUCTION. SEE SANITARY SEWER WEST PROFILE ON THIS SHEET
14. DEMOLISH EXISTING INTERIOR SECURITY FENCE IN ITS ENTIRETY. COORDINATE WITH OWNER (TYP.) 1
15. EXISTING SECURITY FENCE TO REMAIN (TYP.) 1
16. EXISTING TREES WITHIN LIMITS OF WORK TO BE REMOVED (TYP.) 1

BID ALTERNATE B2

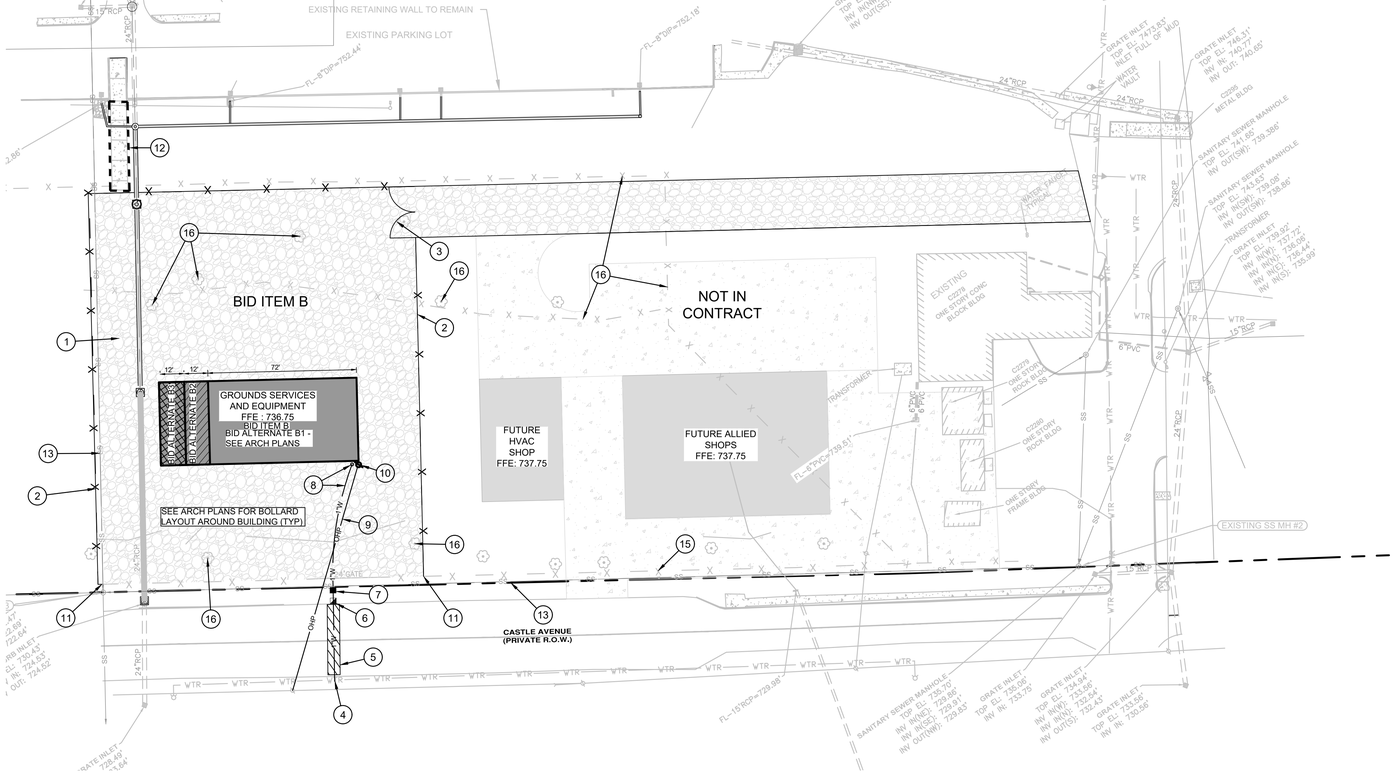
DELETE STONE PAVING FROM BUILDING AREA FOR BA B2

BID ALTERNATE B3

DELETE STONE PAVING FROM BUILDING AREA FOR BA B3.

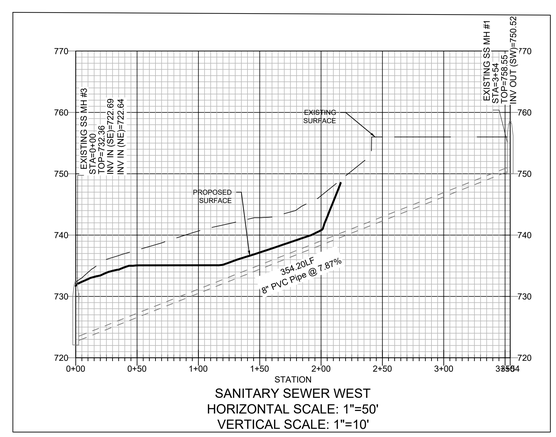
~~NOTE: ALL IMPROVEMENTS WITHIN THE LIMITS OF WORK IN CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE DEMOLISHED~~

IF CULTURAL RESOURCES ARE DISCOVERED DURING THE COURSE OF THE CONSTRUCTION, THE WORK SHALL HALT. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ARCHITECT AND THE PROJECT MANAGER. 1



LAYOUT/UTILITY PLAN

1' = 30'



1"=30'
0 15' 30' 60' 90'
GRAPHIC SCALE

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STATE OF ALABAMA
J.MICHAEL RUTLAND 2149
TIMOTHY R. HOLMES 3188
REGISTERED ARCHITECT

ALABAMA LICENSED PROFESSIONAL No. 31169 CORY D. GRACE 9/19/22

FMTC SOLDIER FITNESS TRAINING AND TESTING FACILITY

FT. MCCLELLAN, ALABAMA
IFB # AC-22-B-0038-S

CONSTRUCTION DOCUMENTS

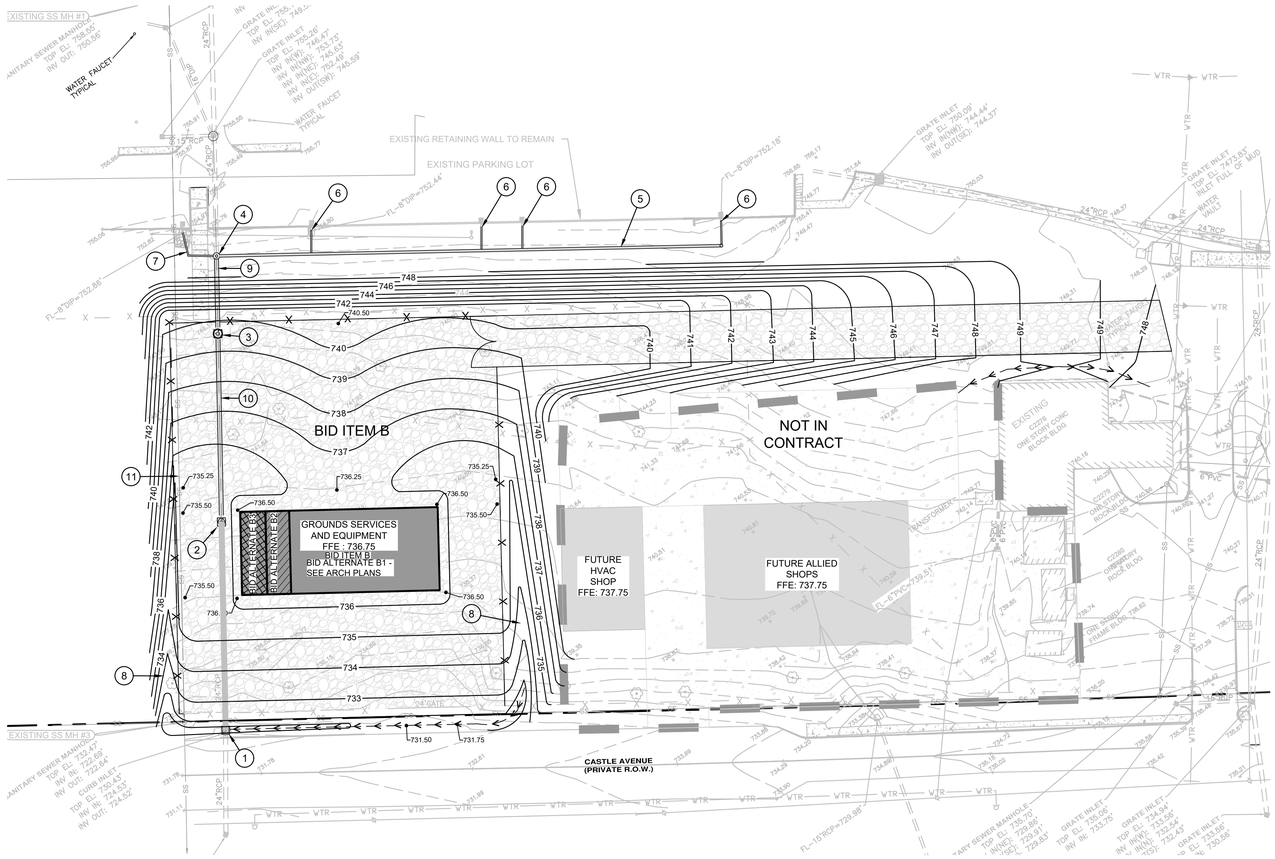
Project Number: 22-1165
Date: 31 AUGUST 2022
Revisions:
1 9-19-22 ADDENDUM #2

Sheet Description

GROUNDS SERVICES AND EQUIPMENT MASTER PLAN, SITE LAYOUT, AND UTILITY PLAN

Sheet Number

BI.B/C200
SD-8

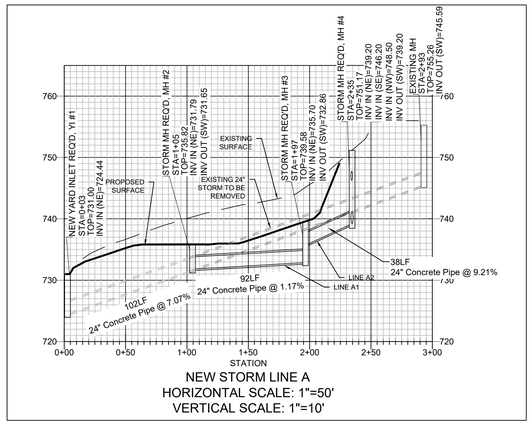


SITE DRAINAGE AND GRADING PLAN

SITE GRADING AND DRIANAGE NOTES

BID ITEM B

1. STORM YARD INLET #1 REQ'D
   THROAT EL = 730.00
   INVERT (IN) = 724.75
   INVERT (OUT) = 724.52
2. STORM MANHOLE # 2REQ'D. PROVIDE CONCRETE APRON (TYP)
   TOP ELEV: 735.79
   INVERT ELEV: 731.79
3. STORM MANHOLE #3 REQ'D. PROVIDE CONCRETE APRON (TYP)
   TOP ELEV: 739.70
   INVERT ELEV: 735.70
4. STORM MANHOLE #4 REQ'D.
   TOP ELEV: 751.00
   INVERT ELEV: 741.20
   INVERT ELEV: 746.50 (15" HDPE IN)
   INVERT ELEV: 748.50 (8" HDPE IN)
5. 250 LF 15" HDPE STORM REQ'D. SLOPE @1% MINIMUM GRADE.
6. TIE EXISTING 8" DIP STORM LATERAL TO PROPOSED 15" HDPE STORM.
7. 25 LF 8" HDPE STORM PIPE REQ'D. SLOPE AT ⅝1 MIN GR. TIE TO PROPOSED MANHOLE. ASSURE WATER TIGHT CONNECTION.
8. 1' DEEP SOLID SOD V-DITCH REQ'D.
9. STORM LINE A2 38 LF 24" RCP STORM REQ'D.
10. STORM LINE A1 92 LF 24" RCP STORM REQ'D.
11. EXISTING SEWER MAIN TO REMAIN. CONTRACTOR TO PROTECT AT ALL TIMES DURING CONSTRUCTION. SEE SANITARY SEWER WEST PROFILE ON THIS SHEET.



NEW STORM LINE A
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'

SITE EROSION CONTROL NOTES

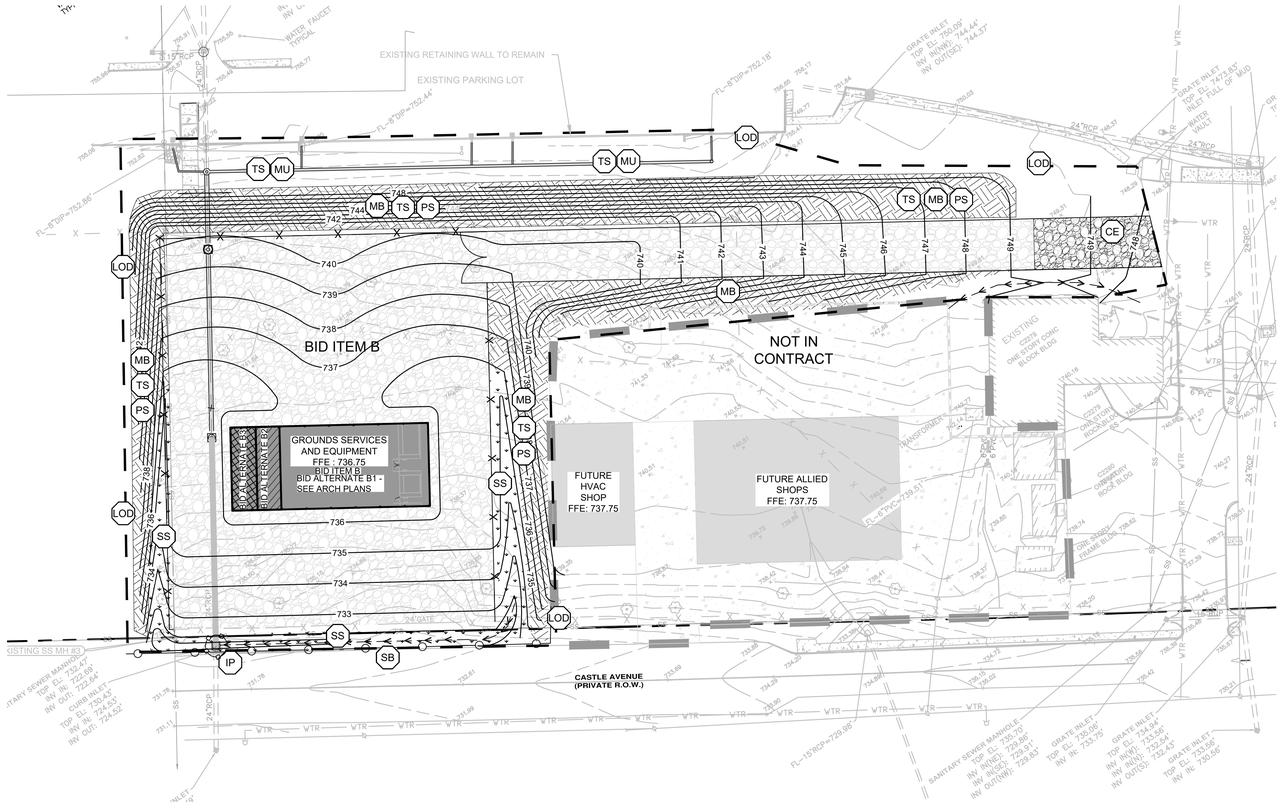
BID ITEM B

- CE — CONSTRUCTION EXIT REQD.
- SB — SEDIMENT BARRIER REQD.
- TS — TEMPORARY SEEDING REQD.
- LOD — LIMITS OF DISTURBANCE
- PS — PERMANENT SEEDING REQD.
- SS — SOLID SOD REQD.
- MB — MATTING AND BLANKETS
- IP — INLET PROTECTION

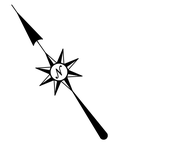
FEMA 100 YEAR BASE FLOOD ELEVATION: 750

DISTURBANCE AREA: 1.65 ACRES

ADEM PERMIT WILL BE REQ'D.



EROSION CONTROL PLAN



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1 IF CULTURAL RESOURCES ARE DISCOVERED DURING THE COURSE OF THE CONSTRUCTION, THE WORK SHALL HALT. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ARCHITECT AND THE PROJECT MANAGER.

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FMTC
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FT. MCCLELLAN, ALABAMA
IFB # AC-22-B-0038-S

ALABAMA LICENSED
No. 31162
PROFESSIONAL
SURVEYOR
9/19/22

CONSTRUCTION DOCUMENTS

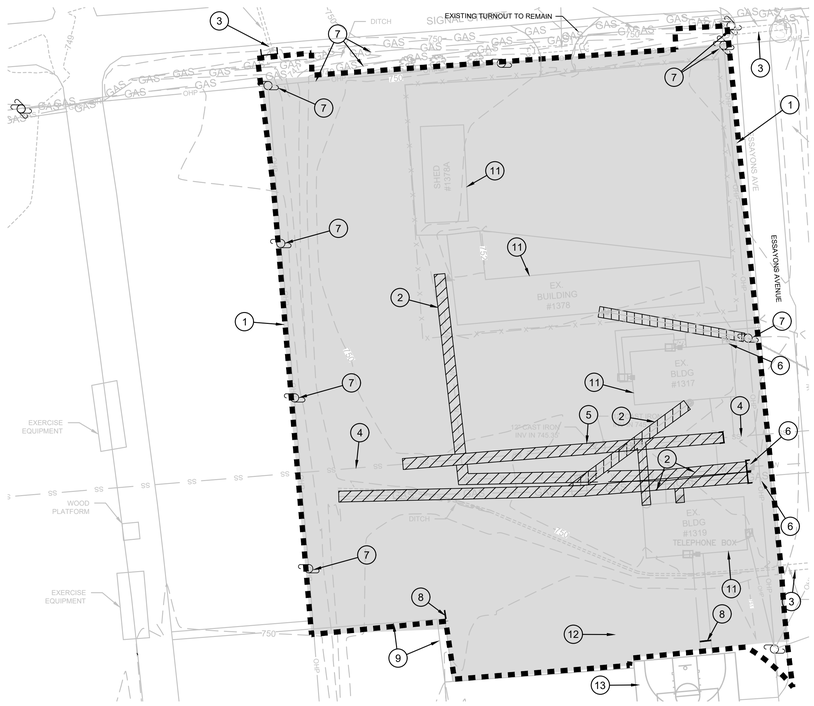
Project Number: 22-1165
Date: 31 AUGUST 2022
Revisions:
1 9-19-22 ADDENDUM #2

Sheet Description

GROUNDS SERVICE AND EQUIPMENT SITE GRADING, DRAINAGE, AND BMP PLAN

Sheet Number

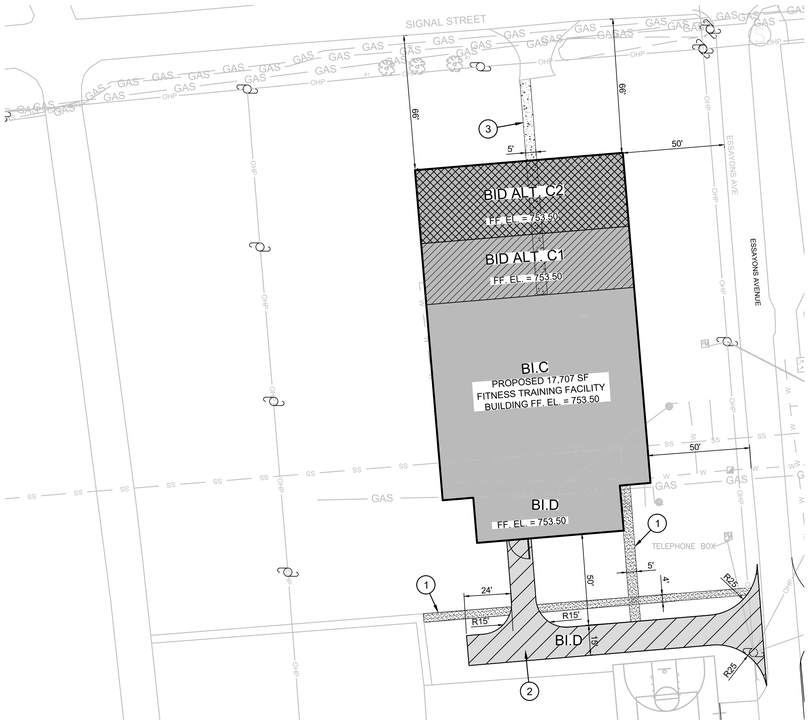
BI.B/C300
SD-9



SITE DEMOLITION PLAN - BID ITEM A

SITE DEMOLITION NOTES
BID ITEM A

1. DEMOLITION LIMITS TYP. ALL ABOVE GRADE IMPROVEMENTS WITHIN THE DEMOLITION LIMITS SHALL BE DEMOLISHED AND REMOVED FROM THE SITE. THE CONTRACTOR SHALL DISPOSE OF ALL DEMOLITION IN A LEGAL MANNER
2. EXISTING UTILITY TO BE DEMOLISHED
3. EXISTING STORM DRAINAGE IMPROVEMENT TO REMAIN.
4. EXISTING SANITARY SEWER MAIN TO REMAIN. SEE SITE UTILITY PLAN FOR DETAILS.
5. SANITARY SEWER MAIN TO BE DEMOLISHED. SEE SITE UTILITY PLAN FOR DETAILS. CONTRACTOR SHALL PROVIDE TEMPORARY PUMP AROUND AS NEEDED
6. EXISTING UTILITY TO REMAIN. CAP AND PLUG
7. EXISTING UTILITY TO REMAIN. CONTRACTOR SHALL PROTECT AT ALL TIMES DURING CONSTRUCTION.
8. SAW CUT EXISTING SIDEWALK
9. EXISTING SIDEWALK TO REMAIN.
10. DELETED
11. EXISTING BUILDINGS TO BE DEMOLISHED.
12. DELETED (1)
13. BASKETBALL COURT TO REMAIN. CONTRACTOR SHALL PROTECT AT ALL TIMES DURING CONSTRUCTION.



SITE LAYOUT PLAN

SITE LAYOUT NOTES
BID ITEM C

1. CONCRETE SIDEWALK REQD.
2. HEAVY DUTY ASPHALT PAVEMENT REQD.
3. 8" DENSE GRADE AGGREGATE BASE REQD.

BID ITEM C1
DELETE 30 LF OF 5' WIDE DENSE GRADE BASE SIDEWALK
BID ITEM C2
DELETE 30 LF OF 5' WIDE DENSE GRADE BASE SIDEWALK

1"=30'
0 15' 30' 60' 90'
GRAPHIC SCALE

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STATE OF ALABAMA
J.MICHAEL RUTLAND 2149
TIMOTHY R. HOLMES 3188
REGISTERED ARCHITECT

ALABAMA LICENSED No. 31169 PROFESSIONAL ENGINEER
9/19/22

FMTC SOLDIER FITNESS TRAINING AND TESTING FACILITY
FT. MCCLELLAN, ALABAMA
IFB # AC-22-B-0038-S

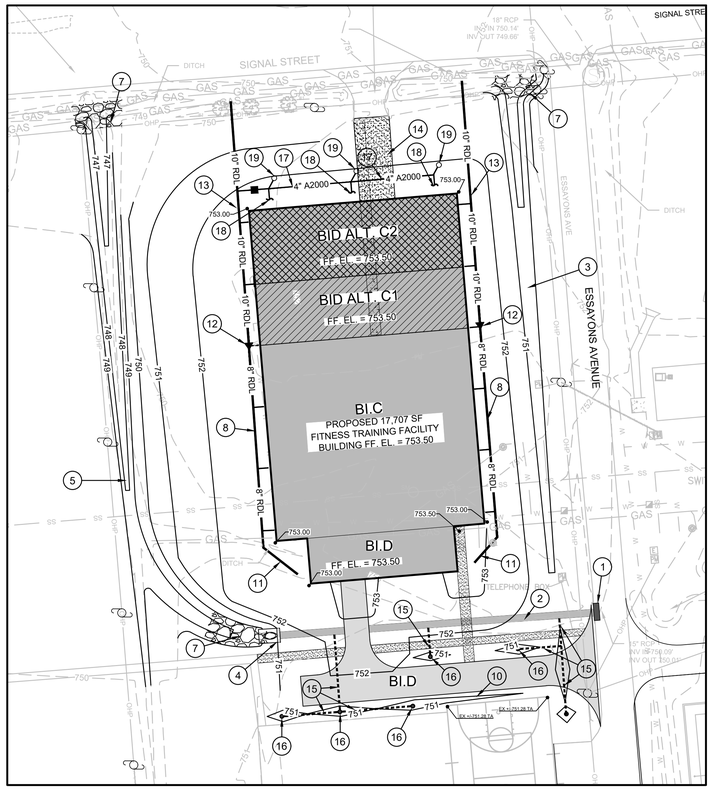
CONSTRUCTION DOCUMENTS

Project Number: 22-1165
Date: 31 AUGUST 2022
Revisions:
1 9-19-22 ADDENDUM #2

Sheet Description
SFTTF FACILITY SITE DEMOLITION AND LAYOUT PLAN

Sheet Number
BI.C/C400
SD-10

PRINTED: 9/20/2022 @ 10:25AM
FILE NAME: N:\2022 Projects\JMR+H Architecture PC\22-0314_FMTC AGFT_Ft McClellan AL\Engineering\Construction Documents\22-0314C 100% 9-19-22.dwg



SITE GRADING PLAN

SITE GRADING AND DRIANAGE NOTES

BID ITEM C

NOTE: BID ITEM C SHALL INCLUDE ALL EARTH WORK REQUIRED FOR BID ITEM C, C1, C2, & D.
CONTRACTOR SHALL INCLUDE TOPSOIL AND PERMANENT SITE EROSION OF C1, C2, & D IN BID ITEM C.

1. CONCRETE COLLAR REQD.
2. 160 LF - 15" PVC (A2000) STORM PIPE @ 0.5% GR REQD.
3. 3 FT FLAT BOTTOM DITCH WITH 3:1 SIDE SLOPES @ 0.5% MAX GR REQD.
4. 3:1 SLOPE PAVED HEADWALL INV = 749.20 REQD.
5. 3 FT FLAT BOTTOM DITCH WITH 3:1 SIDE SLOPES @ 1.0 GR REQD.
6. DELETED
7. RIPRAP REQD.
8. 8" ROOF DRAIN COLLECTOR REQUIRED. CONTRACTOR SHALL TIE DOWN DRAINS TO COLLECTOR PIPE. REFER TO ROOF PLANS FOR DETAILS
9. DELETED
10. SWALE TO DRAIN
11. 8"PVC (A2000) ROOF DRAIN COLLECTOR REQD. CONTRACTOR SHALL REFER TO ROOFING PLAN FOR TIEING DOWN DRAINS TO ROOF DRAIN COLLECTOR. MIN SLOPE OF 1.0%.
12. 8" X 10" EXPANSION REQD.
13. 10"PVC (A2000) ROOF DRAIN COLLECTOR REQD. CONTRACTOR SHALL REFER TO ROOFING PLAN FOR EXACT LOCATION OF DOWNSPOUT TIE LOCATIONS. DAYLIGHT TO EXISTING DRAINAGE DITCH. (TYP)
14. CONSTRUCTION EXIT PAD
15. 8" A2000 STORM PIPE REQ'D. TIE TO PROPOSED 15" STORM. PROVIDE WATER TIGHT CONNECTION. SLOPE AT MIN. 0.5% GRADE (TYP.)
16. 8" A2000 AREA DRAIN REQ'D. SEE DETAILS.
17. 4" A2000 STORM PIPE REQ'D.
18. TIE SUBSURFACE DRAIN TO PROPOSED 4" STORM PIPE. SEE ARCHITECTURAL PLANS FOR CONTINUATION INTO BUILDING.
19. CLEAN OUT REQ'D. (TYP)

BID ITEM C1

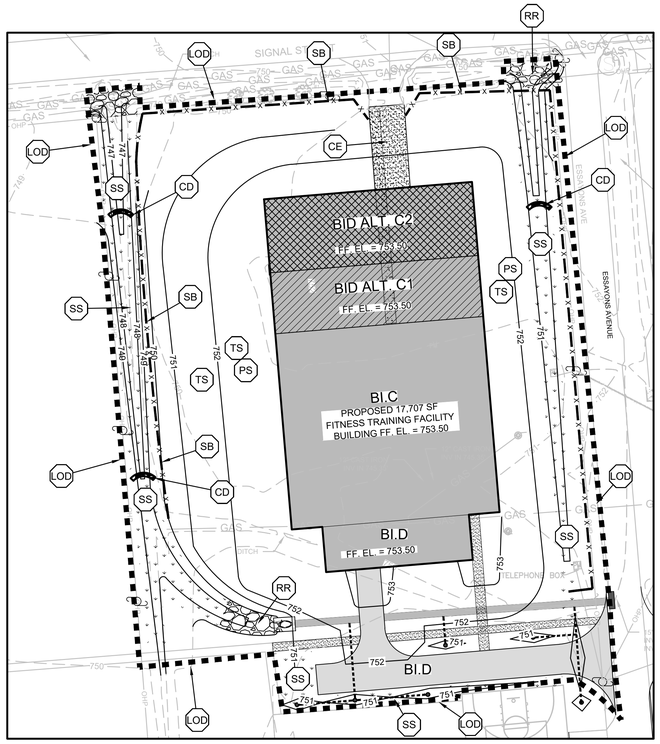
DELETE TOPSOIL FROM BID ITEM C1, AND REMOVE TEMPORARY CROWN.

BID ITEM C2

DELETE TOPSOIL FOR BID ITEM C2 AND REMOVE TEMPORARY CROWN.

BID ITEM D

DELETE TOPSOIL FOR BID ITEM D AND REMOVE TEMPORARY CROWN.



SITE EROSION CONTROL PLAN

SITE EROSION CONTROL NOTES

BID ITEM C

- CE — CONSTRUCTION EXIT REQD.
- SB — SEDIMENT BARRIER REQD.
- TS — TEMPORARY SEEDING REQD.
- PS — PERMANENT SEEDING REQD.
- RR — RIPRAP REQD.
- CD — ROCK CHECK DAM REQD.
- SS — STAKED SOLID SOD REQD.
- LOD — LIMITS OF DISTURBANCE

FEMA 100 YEAR BASE FLOOD ELEVATION: 750

LIMITS OF DISTURBANCE : 1.55 ACRES

1 DISTURBED AREAS TO BE STABILIZED WITH NATIVE VEGETATION IN ACCORDANCE WITH BASE REQUIREMENTS. TYPICAL ALL DISTURBED AREAS

IF CULTURAL RESOURCES ARE DISCOVERED DURING THE COURSE OF THE CONSTRUCTION, THE WORK SHALL HALT. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ARCHITECT AND THE PROJECT MANAGER.

1"=30'

0 15' 30' 60' 90'

GRAPHIC SCALE

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CALL 2 WORKING DAYS BEFORE EXCAVATION
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ALABAMA LINE LOCATION CENTER, INC.

JMR+H Architecture, PC
445 Dexter Avenue
Suite 5050
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STATE OF ALABAMA — J.MICHAEL RUTLAND 2149 — TIMOTHY R. HOLMES 3188 — REGISTERED ARCHITECT

FMTC SOLDIER FITNESS TRAINING AND TESTING FACILITY

FT. MCCLELLAN, ALABAMA
IFB # AC-22-B-0038-S

ALABAMA LICENSED No. 31169 PROFESSIONAL ENGINEER — J. CHRISTOPHER GREYBARD — 9/19/22

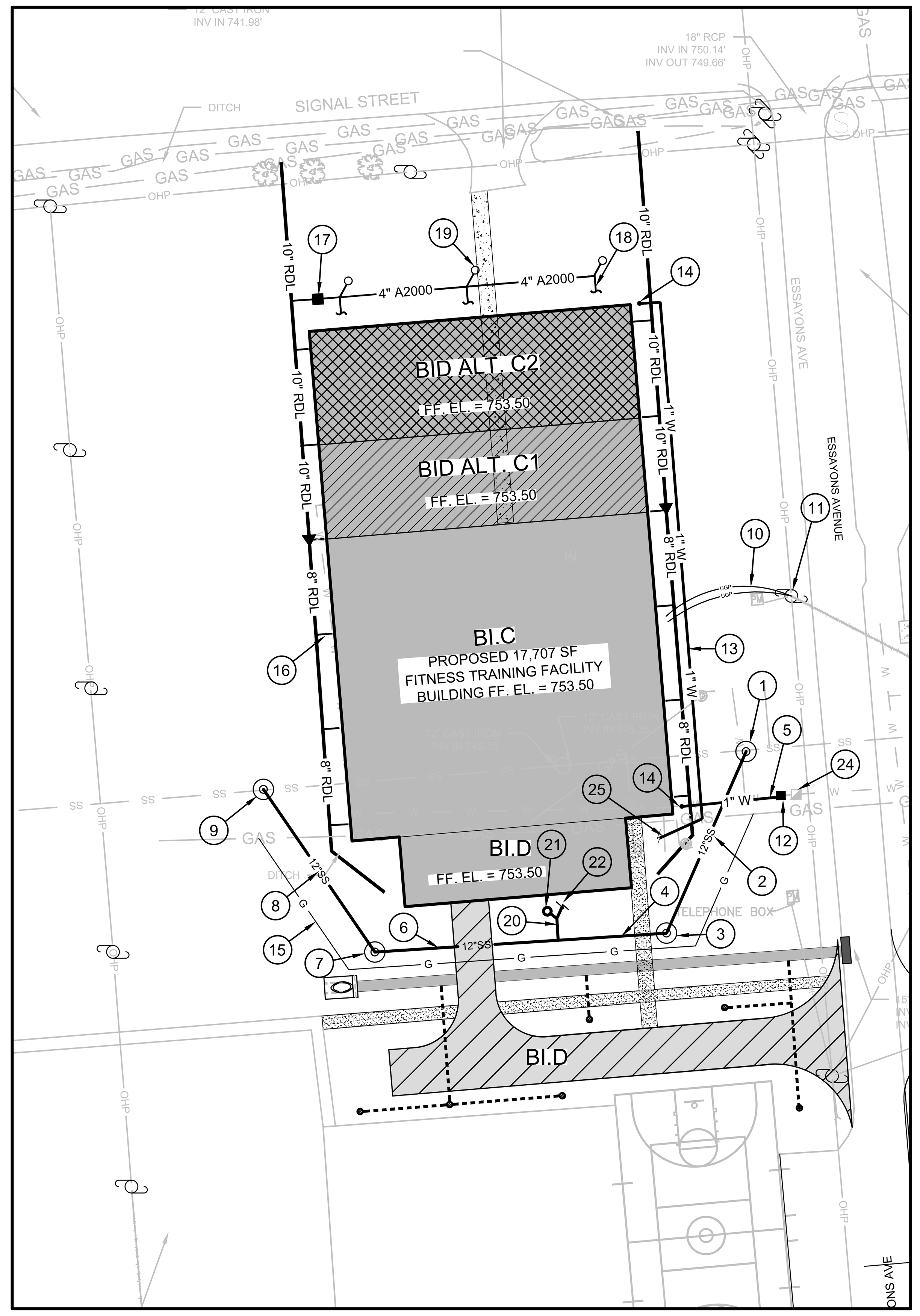
CONSTRUCTION DOCUMENTS

Project Number: 22-1165
Date: 31 AUGUST 2022
Revisions:
1 9-19-22 ADDENDUM #2

Sheet Description
SFTTF FACILITY SITE GRADING AND EROSION CONTROL PLAN

Sheet Number
BI.C/C500
SD-11

19 OF 47



SITE UTILITY PLAN

SITE UTILITY NOTES

BID ITEM C

1. SANITARY SEWER MANHOLE REQD
   TOP EL= 751.50
   INVERT (W)= 746.54
   INVERT (SW)= 746.46
2. 62 LF 12 DIP CLASS 350 SANITARY SEWER MAIN AR 1% GR REQUIRED
3. SANITARY SEWER MANHOLE REQD
   TOP EL= 752.95
   INVERT (NE)= 745.84
   INVERT (W)= 745.76
4. 28 LF 12 DIP CLASS 350 SANITARY SEWER MAIN AT 1% GR REQUIRED
5. 1" WATER SERVICE REQD. CONTRACTOR SHALL TIE TO WATER SERVICE. (revision 1)
6. 64 LF 12 DIP CLASS 350 SANITARY SEWER MAIN @ 0.35% GR REQUIRED
7. SANITARY SEWER MANHOLE REQD
   TOP EL= 752.30
   INVERT (IN)= 745.18
   INVERT (NW)= 745.10
8. 62 LF 12 DIP CLASS 350 SANITARY SEWER MAIN AT 0.35% GR REQUIRED
9. SANITARY SEWER MANHOLE REQD
   TOP EL= 752.05
   INVERT (SE)= 744.85
   INVERT (W)= 744.77
10. 2 @ 5" ELECTRICAL CONDUITS REQD
11. POLE MOUNTED TRANSFORMER AND METER REQD
12. 1" BACK FLOW PREVENTER REQD
13. 1" WATER SERVICE TYPE K COPPER REQD
14. 1" FREEZE PROOF HOSE BIB REQD. LOCATE AT CORNER OF BUILDING BASED ON AWARDED BID ITEMS.
15. EXISTING GAS LINE TO BE RELOCATED AROUND PROPOSED IMPROVEMENTS. CONTRACTOR TO COORDINATE WITH GAS COMPANY. (TYP.)
16. TIE ROOF DOWNSPOUTS TO PROPOSED ROOF DRAIN LATERAL WITH BOOT. SEE ARCH PLANS. CONNECT FIELD SUBDRAINAGE SYSTEM REFERENCED ON DETAIL B/BI.C/A2.2. (TYP ALL DOWNSPOUTS)
17. BACKFLOW PREVENTER REQ'D. SEE DETAIL ON THIS SHEET (TYP.)
18. 3" SUB-DRAINAGE REQ'D (TYP.)
19. STORM CLEANOUT REQ'D. (TYP)

BID ITEM D

20. 4' SANITARY SEWER LATERAL (DIP CLASS 350) @ 2% MIN GR REQD.
21. SANITARY SEWER CLEANOUT REQD.
22. SANITARY SEWER LATERAL INTO BUILDING. SEE MBP PLANS FOR CONTINUATION.
23. DELETED (revision 1)
24. EXISTING WATER METER TO REMAIN AND BE UTILIZED (TYP).
25. EXTEND 1" WATER SERVICE TO BID ITEM D IF AWARDED.

1"=30'
0 15' 30' 60' 90'
GRAPHIC SCALE

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SFTTF FACILITY SITE UTILITY PLAN

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FMTC Soldier Fitness Training and Testing Facility
Anniston, Alabama
22-1165

JMR+H Architecture, PC

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Dodge Data	(413) 507-8198	(888) 667-8198	Kathy Marshall	kathy.marshall@construction.com