July 27, 2020

ADDENDUM NUMBER TWO (2)

Project: New Baseball Field and Pressbox - Taylorsville
Smith County School District
PN: 19063

FROM: Dean and Dean/Associates Architects, P.A.
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The following additions, changes, clarifications and/or substitutions to the Project Drawings as indicated, are hereby made a part of the Contract Documents. Acknowledge receipt of this Addendum by inserting its number and date in the Proposal Form where indicated.

Clarifications

Item #1: Table of Contents, as follows:

Replace in its entirety.

Clarifications to Drawings

Item #1: Both bullpens are to have a crushed brick surface.

Item #2: Where door frames are located with split faced block walls, the door frames shall be installed within the framed opening and not overlap the block per the details.

Structural/Civil

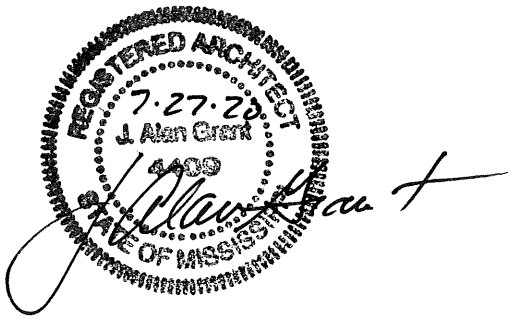
Item #1: Section 316616 – Concrete Modular Retaining Wall, as follows:

Add in its entirety.

Item #2: Section 316216.13 – Sheet Steel Piles, as follows:

Remove in its entirety.

END OF ADDENDUM NUMBER TWO (2)



Dean and **Dean/Associates**
architects p.a.

J. Alan Grant, AIA, Principal

PLEASE ATTACH THIS ADDENDUM TO THE INSIDE FRONT COVER OF EACH SET OF SPECIFICATIONS.

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SECTION 316616

CONCRETE MODULAR RETAINING WALL

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Work includes designing, furnishing, and installing modular block retaining wall to the lines and grades shown on the construction drawings.

B. Work includes preparing foundation soil, furnishing and installing concrete footing, unit fill and backfill to the lines and grades designated on the construction drawings.

C. Work includes designing, furnishing, installing geogrid reinforcement, wall fill, and backfill to the lines and grades designated on the construction drawings and as required by design.

D. Work includes furnishing and installing all appurtenant materials required for construction of the geogrid reinforced soil retaining wall.

1.02 RELATED SECTIONS

A. Section 310513 - Soil Materials.

B. Section 312200 - Grading.

C. Section 033000 - Cast-in-Place Concrete.

1.03 REFERENCES

A. ASTM C90-85 Hollow Load Bearing Masonry Units.

B. ASTM C140-75 Sampling and Testing Concrete Masonry Units.

C. ASTM C145-85 Solid Load Bearing Concrete Masonry Units.

1.04 DELIVERY, STORAGE AND HANDLING

A. Contractor shall check the materials upon delivery to assure that proper material has been received.

B. Contractor shall prevent excessive mud, wet cement, epoxy, and like materials which may affix themselves, from coming in contact with the materials.

C. Contractor shall protect the materials from damage. Damaged material shall not be incorporated into the retaining wall structure.

1.05 SUBMITTALS

A. Prior to construction, submit complete structural analysis, design calculations, and shop drawings which have been signed and stamped by a licensed engineer to practice in the State of Mississippi. All engineering designs, techniques, and material evaluations shall be in accordance with the NCMA Design Guidelines for Modular Concrete Retaining Walls, 1993 and the AASHTO Standard Specifications for Highway Bridges, Section 5.8. 1993 Interim Design Calculations shall indicate the wall to have a factor of safety for global stability of not less than 1.4 after construction, and not less than 1.2 during construction. Shop drawings shall show block type and sizes, location, length and type of geosynthetic grid reinforcement, limits of excavation behind the wall, and a typical section through each design wall section indicating the batter of the finished wall.

B. Samples of all products used in the work of this section including modular blocks, geosynthetic grid reinforcement, and connecting pins.

C. Latest edition of manufacturers specifications for proposed materials, method of installation and list of material proposed for use.

D. The Contractor shall submit certification, prior to start of work, that the retaining wall system (modular concrete units and specific geogrid) has been successfully utilized on a minimum of 5 similar projects, i.e., height, soil fill types, erection tolerances, etc.

PART 2 PRODUCTS

2.01 MODULAR CONCRETE RETAINING WALL UNITS

A. Concrete wall units shall have a minimum net 28 day compressive strength of 3000 psi. The concrete shall have a maximum moisture absorption of 8 percent.

B. Exterior dimension may vary in accordance with ASTM C90-85. Standard units shall have a minimum of .67 square foot face area each. Modular wall units shall be manufactured in accordance with ASTM C-90 and C-140.

C. Standard units shall provide a minimum of 125 psf of wall face area. Fill which is contained within the dimensions of the units may be considered as 80% effective weight.

D. Units shall be capable of the concave and convex alignment curves shown on the drawings.

E. Units shall be positively interlocked to the unit below with non-corrosive connection pins.

F. Units shall be interlocked as to provide a maximum batter of 1 1/2 to 12 (7° cant maximum).

G. Face color and finish shall be as specified by the Professional and approved by Owner.

H. Exposed surfaces of units shall be free of chips, cracks or other imperfections when viewed from a distance of 10 feet under diffused lighting.

2.02 CONNECTING PINS

A. The strength of the connecting pins between vertical adjacent unit shall be applicable over a design temperature of 10°F to +100°F. Connecting pins shall be a minimum of 1/2-inch diameter fiberglass or plastic reinforcement rods properly designed and installed such as to be capable of holding the geogrid in the proper design position during grid pre-tensioning and backfilling.

2.03 UNIT FILL AND DRAINAGE FILL

A. Fill for units shall be free draining crushed stone, 3/8" to 3/4", or coarse gravel (no more than 5% shall pass the No. 200 sieve with a maximum size of 3/4"). Gradation of the fill shall be approved by the Professional.

2.04 GEOGRID

A. Geogrid shall be high density polyethylene expanded sheet or polyester woven fiber materials, specifically fabricated for use as soil reinforcement. Geogrid shall be Miragrid 5T or approved equal.

2.05 BACKFILL

A. Backfill materials shall be Type S3 or S4 as specified in Section 310513.

PART 3 EXECUTION

3.01 EXCAVATION

A. Contractor shall excavate to the lines and grades shown on the construction drawings. Contractor shall take precautions to minimize over-excavation and to not disturb embankment and foundation materials beyond lines shown.

3.02 FOUNDATION SOIL PREPARATION

A. Foundation soil shall be excavated as required for the leveling pad dimensions shown on the construction drawings, or as directed by the Professional.

B. Foundation soil shall be approved by the Professional prior to construction of leveling pad.

C. Over-excavated areas shall be backfilled with approved compacted backfill material.

D. Foundation soil shall be proof-rolled prior to fill and geogrid placement.

3.03 MODULAR UNIT INSTALLATION

A. First course of concrete wall units shall be placed on the base leveling pad. The units shall be checked for level and alignment.

B. Insure that units are in full contact with base and properly seated.

C. Units are placed side by side for full length of wall alignment. Alignment may be done by means of a string line or offset from base line.

D. Install non-corrosive connecting pins and fill all voids at units with fill material. Tamp fill.

E. Sweep all excess material from top of units and install next course. Insure each course is completely unit filled, backfilled and compacted prior to proceeding to next course.

F. Lay up each course insuring that pins protrude into adjoining courses above a minimum of one inch. Two pins are required per unit. Pull each unit forward, away from the embankment, against pins in the previous course and backfill as the course is completed. Repeat procedure to the extent of wall height.

G. Follow wall erection and unit fill placement closely with any other backfilling required. Compaction of all sorts shall be to 95 percent of Standard Proctor Density per ASTM D698. Impermeable soil to prevent surface water runoff from directly entering the unit fill or reinforced soil zones shall be placed as shown on the contract drawings.

3.04 GEOGRID INSTALLATION

A. The geogrid soil reinforcement shall be laid horizontally on compacted backfill. Connect to the concrete wall units by hooking geogrid over connecting pins. Pull taut, and anchor before backfill is placed on the geogrid.

B. Slack in the geogrid at the wall unit connections shall be removed.

C. Geogrid shall be laid at the proper elevation and orientation as shown on the drawings.

D. Correct orientation (roll direction) of the geogrid shall be verified by the contractor.

E. To pretension geogrid, pull pinned geogrid taut to eliminate loose folds. Stake or secure back edge of geogrid prior to and during backfill and compaction.

3.05 FILL PLACEMENT

A. Backfill material shall be placed in 8 inch lifts and compacted to 95% of Standard Proctor.

B. Backfill shall be placed, spread, and compacted in such a manner that minimizes the development of slack or loss of pretension of the geogrid.

C. Only hand-operated compaction equipment shall be allowed within 3 feet of the back surface of the modular units.

D. Backfill shall be placed from the wall rearward into the embankment to insure that the geogrid remains taut.

E. Tracked construction equipment shall not be operated directly on the geogrid. A minimum backfill thickness of 6 inches is required prior to operation of tracked vehicles over the geogrid. Turning of tracked vehicles should be kept to a minimum to prevent tracks from displacing the fill and damaging the geogrid.

F. Rubber-tired equipment may pass over the geogrid reinforcement at slow speeds, less than 10 MPH. Sudden braking and sharp turning shall be avoided.

3.06 CAP INSTALLATION

A. Place Cap units over projecting pins from units below. Pull forward to set back position. Back fill and compact to finished grade.

B. As required, provide permanent mechanical connection to wall units with construction adhesive or epoxy. Apply adhesive or epoxy to bottom surface of cap units and install on units below.

END OF SECTION