

DOCUMENT 00 91 01

**ADDENDUM NO. 04**

November 30, 2018

**1. GENERAL**

This document includes requirements that clarify or supersede portions of the bid and/or contract requirements for the project. This Addendum is a Contract Document.

**2. SUMMARY**

The following changes, additions and deletions shall be made to the following document(s); all other conditions shall remain the same.

A. **Drawings**                      Revisions to plan sheets as noted in the answers to questions below.

B. **Specifications**      Section 31 22 00      GRADING.      Replace in its entirety.

C. **Additional Documents**                      For Reference only:

1. Additional Reference Documents available on the Capital Purchasing Website:  
<http://www.esuhd.org/Community/Purchasing/Capital-Purchasing/Current-RFQ-RFP-BIDS/index.html>

- a. New Location of the Capital Purchasing Office: Please note that the location where the East Side Union High School District Receives Bids has changed and is no longer in their main building. The new location is in a modular building directly behind the Facilities and Construction office. Please refer to the map titled "New Location of the Capital Purchasing Office" located on the Capitol purchasing Website:
- b. Geotechnical Information
- c. Site Surveys

**3. PRE- BID QUESTIONS and ANSWERS**  
**PROJECT MANUAL**

QUESTIONS:

**DOCUMENT 00 31 32 – GEOTECHNICAL DATA:**

1. This section references geotechnical reports for this project. Please post all current geotechnical reports that have been completed on the site.

ANSWER:

See 2. C above. Available documents will be posted to the District website.

2. In addition, please post all previous construction documents or as-builts for this project site to help determine actual existing conditions and depths of existing utilities that are to be removed.

ANSWER:

See 2. C above. Available documents will be posted to the District website.

QUESTION:

**DOCUMENT 01 71 23 – FIELD ENGINEERING:**

3. This section does not address any requirements for conformance surveys on the existing synthetic turf base either right after the existing turf is removed or after any field grading has been performed. Please provide specific conformance survey specifications to provide requirements and guidelines to be used the land surveyors.

ANSWER:

Contractor shall provide a conformance survey of the top of curbs and synthetic turf base. Work shall be performed by a California Licensed Surveyor. Survey shall consist of points taken in a 25' grid spacing. Maximum variation from design grade at top of curb shall be .02 feet. Maximum variation at top of synthetic turf base shall be .03 feet. CAD files shall be provided to the Surveyor in order to establish design grades and comparison of existing grades. The contractor shall be responsible for all corrections to base and curbs to meet the design grades. Refer to Sections 32 12 00, 32 18 13 and 32 18 14 for additional information regarding surface planarity.

QUESTION:

**SECTION 31 22 00 – GRADING:**

4. Section 3.2 Grading does not provide any specifications for lime treatment percentage, depth of lime, or the type of lime to be used. Please provide information.

ANSWER:

Per the geotechnical recommendations from Cleary Consultants, Inc. the subgrade within the project area shall be chemically treated to a depth of 18-inches with four percent (4%) Hi-Cal Quicklime with addition of two percent (2%) Portland Cement by dry weight.

(Section 31 22 00 has been revised to include this information.)

QUESTION:

**SECTION 31 23 33 – EXCAVATION, BACKFILL, AND COMPACTION:**

5. Part 3 D.3 Final backfill states to use native backfill. Please clarify that all pipelines installed within the lime treated section must be either a Controlled Density Fill (CDF) or a 2-sack slurry mix to the same depth of the lime treated section. Please clarify backfill materials.

ANSWER:

Provide 4" minimum encasement of utility and irrigation main pipe with sand. All remaining back fill of pipe must be Controlled Density Fill or 2-sack slurry to the same depth of the lime treated section. Contractor to provide submittal prior to installation.

QUESTIONS:

**SECTION 32 18 13 – SYNTHETIC TURF:**

6. Section 2.6 A states the basis of design is Schmitz Foam Products Pro-Play Sport 20 (D) Ecosport 20 millimeter. This is a conflict in the material product number. The pad is either Pro-Play 20 D or Pro-Play Ecosport. Please confirm which product is required.

ANSWER:

The product is Schmitz Foam Pro-Play (D) 20 millimeter. Omit Ecosport.

QUESTIONS:

**SECTION 32 84 00 – IRRIGATION:**

7. Section 2.1.A.1 states to use Schedule 40 PVC. Plan sheet PF-08 Irrigation Equipment Legend states to use Class 200 PVC. Please clarify the plans to show Schedule 40 PVC mainline pipe.

ANSWER:

Irrigation mainline pipe shall be schedule 40 PVC.

8. Section 3.3 Installation J.2 Backfilling states to use clean backfill sand around the mainline pipe. This conflicts with Detail 01 / PF-10.4 that does not show any bedding and would assume to be native backfill. However, under lime treated soil this will require a 2 sack slurry or controlled density fill material. Please clarify conflict.

ANSWER:

Provide 4" minimum encasement of irrigation main pipe with sand. All remaining back fill of pipe must be Controlled Density Fill or 2-sack slurry to the same depth of the lime treated section. Contractor to provide submittal prior to installation.

**PLAN SHEETS**

QUESTIONS:

**SHEET PF-02: DEMOLITION PLAN:**

9. Note #1 states to remove trees along the fence line that have already been removed. Please clarify scope and what is required for any remaining stumps and/or organics.

ANSWER:

Trees have been removed but subgrade root systems remain and must be removed during demolition.

10. Note #4 states to remove existing building, but remaining plans show this to remain. Please clarify conflict.

ANSWER:

PF-02 has been revised with trees previously removed.

11. With the existing building to remain within the limits of work, please if this building will be in use during construction since the work occurs immediately adjacent to the building. If so, please provide a plan for protection of the faculty and students to access this building across an active construction site.

ANSWER:

Contractor to provide construction fencing and staging plan prior to construction.

12. Please clarify the relocation of the 5 existing storage containers and the new location.

ANSWER:

Four (4) total storage containers shall be relocated to the area indicated on Sheet PF-03.

QUESTION:

**SHEET PF-10.1: DRAINAGE DETAILS:**

13. Detail 02 Non-Perforated Storm Drain Trench is not clear for native material below the lime treated section and remaining backfill must be either a Controlled Density Fill (CDF) or a 2-sack slurry mix to the same depth of the lime treated section. Please clarify backfill materials.

ANSWER:

Provide 6" minimum encasement of solid storm drain pipe with sand. All remaining back fill of pipe must be Controlled Density Fill or 2-sack slurry to the same depth of the lime treated section. Contractor to provide submittal prior to installation.

QUESTION:

**SHEET PF-10.4: IRRIGATION DETAILS:**

14. Details 05 does not show concrete collars around the box within the synthetic turf that are required for proper compaction and finish tolerances to be achieved. Please clarify to add concrete collars.

ANSWER:

Contractor shall install a 4"x4" concrete collar with 3000 psi concrete. Glue turf to top collar and box lid. Contractor must submit sketch prior to installation.

QUESTION:

**ELECTRICAL PLANS:**

15. There are no electrical plans to show electrical work required for the irrigation controller, please provide plans.

ANSWER:

Controller is to be installed inside the existing building with exact location to be field verified. No need for electrical plans.

END OF DOCUMENT

**SECTION 31 22 00 GRADING**

**PART 1 – GENERAL**

**1.1 SCOPE OF WORK**

- A. The scope of this section relates to earthwork and grading operations.
- B. Labor, materials, equipment, and services necessary to complete site preparation, grading, and related items as indicated on plans or in specifications.

**1.2 SUBSTITUTIONS**

- A. Material substitutions or grading plan alterations are accepted only with written approval of Owner and or Engineer.

**1.3 FINISHED GRADE**

- A. "Finished Grade" as used herein, refers to:
  - 1. Top of synthetic turf infill.
  - 2. Top of synthetic track surfacing.
  - 3. Top of curb or finished grade of hardscape.
- B. Unless otherwise indicated, provide uniform slopes between points for which finished grades are indicated or between such points and existing established grade.
- C. The contractor is required to

**1.4 GEOTECHNICAL REPORT**

- A. Refer to geotechnical report for additional information and requirements.

**1.5 PROJECT CONDITIONS**

- A. The Contractor must verify existing conditions before starting work.
- B. The Contractor must protect existing structures and facilities.
  - 1. The Contractor must not interfere with use of adjacent buildings.
  - 2. The Contractor must maintain free and safe passage to and from adjacent buildings and maintenance areas.
  - 3. The Contractor must prevent movement or settlement of walls and structures, provide bracing or shoring, be responsible for safety and support of structures and assume liability for building movement, settlement, damage, or injury.
  - 4. The Contractor must cease operations and notify owner immediately if safety of structures appears to be endangered, take precautions to properly support structures, and resume operations only after safety is restored.
  - 5. The Contractor must provide, and maintain barricades, lighting, and guardrails required by applicable regulatory advisory to protect passersby, workers and building occupants.

**1.6 QUALITY ASSURANCE**

- A. After completion of each grading operation the contractor must provide a conformance survey that verifies the field is within tolerance. The survey must be prepared on a (25' x 25') grid and submitted to the engineer for review and approval prior to starting next fill level / grading operation.
  - 1. For synthetic track conduct conformance survey on subgrade, top of aggregate, top of base lift, top of finishing left and top of synthetic surface.
  - 2. For synthetic turf conduct conformance survey on subgrade and top of aggregate base stone.

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- B. The contractor must, in the presence, of an Owners representative or the engineer perform a string line test on drain stone material prior to drain pad turf installation. The string line is to be run at 10' intervals over the entire field in both length and width directions. Any depressions or ridges exceeding 1/8" must be marked and then corrected by the contractor.
- C. Conformance surveys are to be conducted and signed by licensed land surveyor.
- D. String line testing may be performed by the contractor.
- E. The Contractor must receive written approval of conformance survey prior to starting next fill level / grading operation. Proceeding without approval or working "at risk" is not acceptable.

### **PART 2 – MATERIALS**

#### **2.1 EXCESS OR UNSUITABLE MATERIAL**

- A. Excess or unsuitable material, broken asphaltic concrete, broken Portland cement concrete, pipes, etc., must be removed and disposed of by the contractor. Materials must be disposed of at an approved disposal site. Contractor must, prior to commencement of work, submit a letter to owner stating locations of disposal sites for excess materials, and certifying that they have obtained property owner's permission for disposal of surplus materials.

#### **2.2 FILL MATERIALS**

- A. Soil Materials for subgrade, whether from sources on or off site, must be approved by the Geotechnical Engineer as suitable for intended use, and specifically for required location or purpose. Purchase and delivery of import materials, as required, will be the responsibility of the Contractor.
- B. Trench spoils may be used for fill only when specifically accepted by Geotechnical Engineer and only when cut / fill requirements allow. The Contractor is responsible for spoils export as needed.

#### **2.3 GRADE STAKES AND LINES**

- A. Grading, including sub-grading and finished grading of un-surfaced, as well as paved areas, must be controlled by such intermediate grade stakes and lines as may be necessary to obtain slopes and levels required by finished grade elevations shown on plans. Compacted sub-grades and finished grade surfaces must parallel and conform to control planes established by grade stakes and lines.

#### **2.4 VERIFICATION OF QUANTITIES**

- A. Quantities shown on grading plans and sections are for contractor's convenience only and are guaranteed. Grading must be done in conformance with elevations shown on plans and in accordance with specifications. Discrepancies between such mentioned quantities and/or sections, and requirements of grading plans and/or specifications, will not entitle contractor to additional remuneration.

#### **2.5 TOLERANCES**

- A. Sub-grade elevations may only vary within a tolerance of  $\pm 0.04$ -feet in 10-feet, measure in any direction. Sub-grade elevations if not shown on plans are to be calculated by the Contractor based on finished grade and material thickness noted in construction details.
- B. Top of drain stone elevations may only vary within a tolerance of  $\pm 0.03$ -feet in 10-feet, measure in any direction. Top of drain stone elevations if not shown on plans are to be calculated by the Contractor based on finished grade and material thickness noted in construction details.
- C. Finished grade elevations of playing field surfaces may only vary within a tolerance of  $\pm 0.03$ -feet 10 feet, measure in any direction.
- D. Finished grade elevations of hardscape or pavement may only vary within a tolerance of  $\pm 0.03$ -feet in 10-feet, measure in any direction. Regardless of tolerance allowed variance all general access walking surfaces must be ADA compliant (Americans with Disabilities Act).

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- E. The inside edge of the track perimeter sidewalk must meet track surface tolerances and provide smooth grade with no lips, dips or gaps from track to concrete sidewalk.
- F. Finished grade elevations of track running and event surfaces may only vary within a tolerance of  $\pm 0.02$ -feet in 10 feet, measure in any direction.
- G. Regardless of tolerances the contractor is responsible for provide smooth transitions from varied surfaces such as hardscape to track or track to field.

### **2.6 CHEMICAL TREATMENT**

Per the geotechnical recommendations from Cleary Consultants, Inc. the subgrade within the project area shall be chemically treated to a depth of 18-inches with four percent (4%) Hi-Cal Quicklime with addition of two percent (2%) Portland Cement by dry weight.

## **PART 3 – EXECUTION**

### **3.1 EXCAVATION**

- A. Excavate areas shown on plans or as specified herein may include cutting for paving area and construction sub-grades, pipe line trenches, and turf areas.
- B. Excavation must be kept free from water until compacted fills and structures are complete to above water, safe from uplift and horizontal water pressure and the backfill has been placed. De-watering equipment must be adequate to protect against flotation.
- C. Excavated material not necessary to, or suitable for fill construction, must be removed from site.

### **3.2 GRADING**

- A. Prepare subgrade after stripping the existing remnants as required by Geotechnical Report. Subgrade preparation may include but is not limited to chemical treatment and processes for ripping, scarifying, moisture management and compaction. The contractor must prepare the subgrade and construct all subbase with chemical treatment as indicated and per the project Geotechnical recommendations by Cleary Consulting, Inc.
- B. On-site soils and imported granular soils should be compacted at a moisture content near optimum. Depending on the actual soils and compaction equipment, compaction moisture contents may need to be changed to avoid or limit soil yielding or pumping.
- C. At completion of grading work, site must be left in a clean and finished condition conforming to the drawing.
- D. Sub-grade surfaces must be finished to uniform grades and slopes per drawings, and in such a manner as to drain properly and be free of depressions, which may cause areas of standing water.

### **3.3 GEOTECHNICAL TESTING AND INSPECTION**

- A. All earthwork operations including subgrade and backfill is to be tested and inspected by a Geotechnical Engineer prior to proceeding with work.

END OF SECTION