

ADDENDUM NO. 2

September 14, 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. Documents to be replaced:

1. Delete Document 00 52 13 Agreement and Replace with Attached Document 00 52 13 Agreement Addendum 02.
2. Delete Document 00 73 13 Special Conditions and Replace with Attached Document 00 73 13 Special Conditions Addendum 02.
3. Delete Document 01 11 00 Summary of Work 01 11 00 Replace with Attached Summary of Work Addenda 02. **Note** that this revision has added two allowances totaling \$75,000.00 for which the contractor must include within their base bid.
4. Delete Document SECTION 32 18 13 SYNTHETIC TURF Replace with Attached Document SECTION 32 18 13 SYNTHETIC TURF-addendum2.

B. Sheets to be Replaced:

Piedmont Hills

- a. TF-02 Demo
- b. TF-03 Demo
- c. TF-04 Surfacing
- d. TF-05 Surfacing
- e. TF-07 Details
- f. TF-08 Details

Yerba Buena

- a. TF-02 Demo
- b. TF-03 Surfacing
- c. TF-04 Graphic
- d. TF-05 Details
- e. TF-06 Details

James Lick

- a. TF-02 Demo
- b. TF-03 Surfacing
- c. TF-05 Details
- d. TF-06 Details

B. Additional Documents:

1. Additional Documents
 - a. SECTION 32 31 13 CHAIN LINK FENCE
2. Additional Documents Available on the Capital Purchasing Website:

<http://www.esuhsd.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 Reports
- c. Original Field Construction As-Built Drawings

3. PRE-BID QUESTIONS AND ANSWERS

QUESTION:

I have a quick question regarding the specified track systems. The system specified- are a sandwich system with and in bedded 5 mm finish course which is our Spartan-BV. You also have encapsulated after each system. Does that mean 2 spray coats of our aliphatic/varnish after the 5mm finish coat with embedded 1-3 EPDM rubber?

ANSWER:

Track overlay finish does not require spray encapsulation.

QUESTION:

I had another question come up for all five school sites. For the synthetic turf removal, we will need to know the turf type, infill type, and infill pounds per SF. This has a cost impact for removal and recycling.

ANSWER:

The turf type for Yerba Buena, Oak Grove, James Lick Andrew Hill and Piedmont Hills is Field Turf FTOS 1F. The thickness ranges from 2.25" for the greener sections of the fields to 2" at the less green infield areas. The infill was serviced about 4 months ago and is a sand crumb rubber mix which lies about 1/8" from the current surface of the turf. We do not know the weight of the infill.

QUESTION:

"Dwg No. TF-01, Standard Engineering Note #5 calls for Contractor to verify the pavement cross slope, elevations, condition or pavement conflict with ADA of FIH requirements. Please provide details and specifications for this scope. Please confirm if a full conformance survey on all the track and field surfaces is required. Also clarify that any surface not meeting tolerances and required to be repaired will be considered unforeseen work and paid for as extra work."

ANSWER:

No detail necessary for verification that existing conditions meet accessibility requirements. Contractor to notify district if they encounter conditions that are not compliant with CBC 11.B

QUESTION:

"What is the engineer's estimate for this project?"

ANSWER:

The engineer's estimate not including allowances is Four Million Seven Hundred and Ninety Five Thousand Seventy Seven Dollars (\$4,795,077.00).

QUESTION:

"PROJECT MANUAL DOCUMENT 00 31 32 - GEOTECHNICAL DATA:

- 1. This section references geotechnical reports for these sites. Please post all geotechnical reports for the previous projects and any additional reports that may have been completed on the sites or adjacent to the projects sites.*
- 2. In addition, please post all previous construction documents or as-builts for each project site to help determine actual existing conditions."*

ANSWER:

Geotechnical Reports generated ahead the original construction of the synthetic fields at four sites may be found on the districts Capitol purchasing Website: <http://www.esuhdsd.org/Community/Purchasing/Capitol-Purchasing/Current-RFQ-RFP-BIDS/index.html> . For James Lick the original geotechnical report for the fields' project could not be located so the geotechnical report generated in 2016 for the Student Union Building 900 and Quad Modernization Project was posted. The Student Union Building 900 and Quad Modernization Project is taking place approximately 200 feet from the existing field.

Available PDF copies of the as-built drawings have been posted to the above mentioned website. Please note:

- Originally James Lick, Oak Grove and Yerba Buena, were bid and constructed as one project this document is titled "As Builts JL OG YB Fields 2005 0330"
- Andrew Hills, Piedmont Hills, and Santa Teresa High Schools were bid and constructed as one project this document is titled "As Builts AH PH ST Fields 2004 0227"

QUESTION:

"DOCUMENT 00 52 13 – AGREEMENT:

Section 4 Time of Completion states 94 consecutive calendar days for the construction period. Please consider adding a minimum of an additional 60 calendar days to compensate for rain days and staggered schedule sequencing."

ANSWER:

Contractor shall reference the revised agreement titled "00 52 13 Agreement Addenda 02" revising the time of completion to 139 consecutive calendar days.

QUESTION:

"SECTION 00 73 13 – SPECIAL CONDITIONS:

3. *Section 7.2.2 states contractor shall comply with any District storm water requirements that are approved by the District. Please clarify the following:*
 - 3.1 *Please provide the District's approved storm water requirements.*
 - 3.2 *Does a full SWPP plan need to be developed for this project by a Qualified Stormwater Designer (QSD) or does the District already have a plan in place?*
4. *Section 7.2.3 states the contractor shall provide the Qualified Storm Water Practitioner (QSP). Will the QSP be responsible for uploading the SWPPP to the SMARTS system and be responsible for filing the NOI, NOT, and Annual Reports or will the District as the Legal Responsible Person perform these duties?"*

ANSWER:

Contractor shall reference the revised Special Conditions titled "00 73 13 Special Conditions Addenda 02" which eliminates this requirement.

QUESTION:

“DOCUMENT 01 71 23 – FIELD ENGINEERING:

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:

Conformance Surveys for the existing base immediately after the existing turf is removed are not necessary. Contractor however shall be responsible to provide grading as detailed in the contract documents including Specification Section 32-18-13 Synthetic Turf Addendum 02 as well as any work necessary to ensure that the base is acceptable to the Turf installers.

QUESTION:

“SECTION 31 11 00 – ATHLETIC FIELD DEMOLITION:

Section 1.1 C states contractor is responsible for protecting existing paved and track surfaces from all construction activity and use. The plans do not provide a track protection crossing that should include filter fabric on the track with trench plates across the track to access the field with heavy equipment. This will be required to disperse the loads of the equipment. Please provide a detail or clarify for a specific track crossing protection method.”

ANSWER:

As stated in the contract documents the Contractor shall take any necessary precautions to ensure that existing and constructed elements are not damaged by construction activities. The contractor shall take all necessary measures to ensure the track surface, adjacent paving and site paving are not damaged during construction. The contractor shall provide a minimum 15' wide crossing system for protection of the existing running track. Minimum cover for track crossing shall be a layer of filter fabric or section of synthetic turf backing under ¾" plywood topped with traffic rated 1" steel plates. Contractor shall take necessary measures to ensure that crossing and all protections stay in place.

QUESTION:

Section 1.1 F states contractor must adhere to the list regulations during demolition, excavation, and grading. Please confirm that materials on-site are not considered to be hazardous material.

ANSWER:

The District has no knowledge of hazardous materials on site.

QUESTION:

“SECTION 32 12 00– ASPHALT PAVING:

- 1. Section 2.1 B states Class 2 aggregate per Caltrans Standard Specifications. These standards also include the use of recycled aggregate base. Please clarify that all aggregate base to be used under any surface that will receive synthetic track surfacing shall be virgin aggregate base rock.*
- 2. Section 2.1 E states to use 3/8” aggregate for the finish course asphalt layer. Please clarify that it is acceptable to use 1/2” aggregate for the finish course asphalt layer due to better finish surface control and compaction.”*

ANSWER:

1. All aggregates used for this project shall be virgin material.
2. Asphalt finish course shall be 3/8” aggregate as specified.

QUESTION:

“SECTION 32 18 13 – SYNTHETIC TURF:

- 1. Section 2.6 A states the basis of design is Schmitz Foam Products Pro-Play Sport 20 (D) Ecosport 20 millimeter. It has been our firsthand experience that this product is inferior and creates many problems with the turf stability. This product is very susceptible to heat and cold expansions and contractions, whether exposed before turf and even after turf is placed on top. The joints will expand to create gaps and cause settling issues. As a leading in synthetic field construction, we highly recommend removing this product from the specifications.*
- 2. Section 3.1 B states to remove base material as necessary above the subdrain to expose clean base rock and if no clean rock is found to remove the rock to the spring-line of the subdrainage pipe. Detail 9 / TF-05 (TF-07 on Piedmont Hills) shows only removing the base to the field rock subgrade. There is no way to determine prior to bid if there will be clean rock or contaminated rock within the subdrain trench. Please clarify that if any removal and replacement of subdrain rock beyond the field rock subgrade will be considered unforeseen and will be paid for as extra work through contract change order.*
- 3. Section 3.1 C states to replace or shim the existing turf nailer board. Please clarify adjustment of the nailer board. There is no way to shim or adjust the nailer board without complete removal and replacement. It cannot be determined at bid time the quantity of damaged nailer board. If the new turf infill section is a different section than the existing turf, clarify either complete replacement of the nailer board with new*

or have the turf contractor add more infill within a certain transition zone to match the grades.”

ANSWER:

1. Contractor shall bid as specified. Brock YSR is also specified as an acceptable alternative.
2. Bid per detail removing 6” of base rock over subdrain, installing separator filter fabric and backfilling with drain rock per detail. Additional work to subdrains will be determined upon removal of turf and 6” base rock.
3. It is possible to shim and has been done on numerous fields in the area. Refer to supplemental Detail 06, Sheet TF-08.

PLAN SHEETS – PIEDMONT HILLS HIGH SCHOOL

QUESTION:

“SHEET TF-02: DEMOLITION PLAN:

1. General Note #8 states to renovation all infield boxes per plan notes and details. This is too vague in what is required. The plans do not show where any of the existing boxes are located, the type and size of box, and what is specifically required to each box. Please clarify requirements and provide a list of boxes or plan that shows the box type and size and any requirements for each box.
2. Protect in place Note #11 states contractor must repair holes, chips, cracks, bumps, and dips. This is open ended and no way to identify all possible required repairs during the bid period. Either provide an allowance for this scope or provide a square footage quantity to be included in the base bid, then any additional or reduction can be adjusted through a contract change order.”

ANSWER:

1. Refer to revised sheet TF-02 and as-built plans for box locations.
2. Note 11 pertains to damage caused as a result of construction activities, as stated in the General Conditions the contractor is responsible to protect existing asphalt in place and repair any damage caused by the Contractor or construction activities.

QUESTION:

“SHEET TF-03: DEMOLITION PLAN:

General Note #8 states to renovation all infield boxes per plan notes and details. This is too vague in what is required. The plans do not show where any of the existing boxes are located,

the type and size of box, and what is specifically required to each box. Please clarify requirements and provide a list of boxes or plan that shows the box type and size and any requirements for each box.”

ANSWER:

Refer to revised Sheet TF-03 and as-built plans for box locations.

QUESTIONS PERTAINING TO Sheet TF-04: Surfacing Plan:

1. Surfacing Note #9 states to adjust communication/electrical and irrigation boxes as needed to sit flush with surface. The plans do not show where any of the existing boxes are located or the type and size of box. Some boxes are completely missing over subdrain cleanouts. Please provide a plan that identifies the location of the boxes, type of box and if any replacement is required as indicated on Detail 07/TF-07.”
2. Surfacing Note #6 states to clean, prime, and paint existing high jump and pole vault pit covers. Please provide cut sheets on the existing covers to be able to determine the actual size the covers since the plan does not show the true dimensions and heights. In addition, please clarify the cleaning process since the existing covers are currently painted – such as removing paint or etching surfacing to receive new paint.
3. Surfacing Note #13 states to repair as needed existing fence and rails and paint posts, rails, and gates; repair gates and hardware as needed. This is too vague and open ended on exactly what is required. Please clarify the following:
 - a. For fence repairs, either provide an allowance or state specifically what repairs are required.
 - b. For painting posts and rails, provide the requirements for painting, such as all existing paint or vinyl coating shall be removed, galvanize pipe etching, prime coat, and type and number of coats of paint required.
 - c. For gate and hardware repair, either provide an allowance or state specifically what repairs are required.
4. Surfacing Note #15 shows the new location of the containers. Please confirm that others will remove and replace any contents within the containers.
5. It was stated at the pre-bid meeting that the containers are to be repainted. There are no notes stating these are to be painted. Please clarify if painting is required and if required clarify the cleaning process since the existing containers are currently painted – such as removing paint or etching surfacing to receive new paint.

6. General Note #5 states existing drainage system must be maintained or repaired whenever damage is discovered and all drainage systems within the work shall be cleaned and flushed. Please clarify the following:
 - a. Please confirm that any damaged discovered will be paid for as extra work for unforeseen conditions.
 - b. The plans do not show the existing drainage system to be able to quantify cleaning and flushing the existing system. Please provide drainage plans and clarify extent of cleaning, such as any required pipe bladders or balling of interior pipe will be required and if sediment is required to be captured at the last outfall location within the project site.

ANSWERS:

1. Refer to revised Sheet TF-04 and as-built plans for box locations.
2. Pit covers are approximately 25'x25'x7' and 12'x20'x6'. Bidder may observe and measure the pit covers on site if needed. Coordinate all visits with the District. Pressure wash to remove dirt and loose paint. Apply one coat of primer and at least one coat of exterior paint to provide full even coverage. Paint shall be Dunn Edwards Exterior Premium Exterior with color per District direction to match existing.
3. Surfacing Note 13:
 - a. Allowance provided for rail, posts and gate repairs. Refer to supplemental Section 32 31 13 for chain link fencing in this addendum.
 - b. Existing posts and rails are either powder coated or painted. Remove any vinyl coating or any loose paint with scraper and sand paper. Apply primer coat. Apply two coats of exterior enamel paint for metal. Refer to fence specification in this addendum. Paint shall be Dunn Edwards Exterior Premium Exterior with color per District direction to match existing. Refer to supplemental Section 32 31 13 for chain link fencing in this addendum.
 - c. Allowance provided for gate repairs. Refer to supplemental Section 32 31 13 for chain link fencing in this addendum.
4. District shall remove items from containers prior to relocation. Contractor Shall Provide 3 weeks' notice to district prior to the relocation of containers
5. Refer to revised sheet TF-04 for locations instructions on painting containers. Pressure wash prior to painting and apply one coat of primer and one full coat of complete even coverage. Paint shall be Dunn Edwards Exterior Premium Exterior with color to match existing or per District direction on container surfaces. Security gates on containers to be painted black.
6. Damage to existing drainage not caused by the contractor or construction activities shall be considered additional work.

QUESTIONS PERTAINING TO Sheet TF-05: Surfacing Plan:

1. *Surfacing Note #2 and Detail 3/TF-07 states to adjust field base at perimeter and adjust nailer board elevations. Note #2 further states to remove and replace the impermeable layer after field grading adjustments are made. Also states contractor is responsible to replace damaged nailer boards. Please clarify the following:*

- a. *Please clarify if the existing base system is a single stone layer or the older two stone system.*
 - b. *If a two stone system, should the top stone be removed completely within the 10' transition zone shown on Detail 6/TF-07 and replaced with single stone class 2 permeable rock?*
 - c. *Please provide any requirements to respread removed turf base material on the remaining existing synthetic turf base and clarify that any existing areas that are not within tolerances will be considered unforeseen and paid for as extra work.*
 - d. *Please clarify statement about impermeable layer. There should no impermeable layer on top of the rock to be removed and replace. Detail 1/TF-07 shows a new geotextile fabric on top of the rock, not an impermeable layer or liner.*
 - e. *Please clarify adjustment of the nailer board. There is no way to shim or adjust the nailer board without complete removal and replacement. It cannot be determined at bid time the quantity of damaged nailer board. If the new turf infill section is a different section than the existing turf, clarify either complete replacement of the nailer board with new or have the turf contractor add more infill within a certain transition zone to match the grades.*
2. *Surfacing Note #5 states to adjust communication/electrical and irrigation boxes as needed to sit flush with surface. The plans do not show where any of the existing boxes are located or the type and size of box. Please provide a plan that identifies the location of the boxes, type of box and if any replacement is required as indicated on Detail 07/TF-07.*
 3. *Surfacing Note #8 states to clean and powder coat existing goal posts. Powder coating cannot be field applied and would require removal of the goal posts and shipped to a facility with large enough capacity to perform the powder coating. Please confirm powder coating is required in lieu of field painting. If field painting is chosen, please clarify the cleaning process such as removing paint or etching surfacing to receive new paint.*
 4. *Surfacing Note #11 states to repair as needed existing fence and rails and paint posts, rails, and gates; repair gates and hardware as needed. This is too vague and open ended on exactly what is required. Please clarify the following:*
 - a. *On the plan it is hard to distinguish where the fence is located and the note symbols with arrows on the plans do not include all the 42" fence around the field. Please provide a graphic that better highlights the existing fence line to be repaired and painted.*
 - b. *For fence repairs, either provide an allowance or state specifically what repairs are required.*

- c. *For painting posts and rails, provide the requirements for painting, such as all existing paint or vinyl coating shall be removed, galvanize pipe etching, prime coat, and type and number of coats of paint required.*
 - d. *For gate and hardware repair, either provide an allowance or state specifically what repairs are required.*
- 5. *General Note #5 states existing drainage system must be maintained or repaired whenever damage is discovered and all drainage systems within the work shall be cleaned and flushed. Please clarify the following:*
 - a. *Please confirm that any damaged discovered will be paid for as extra work for unforeseen conditions.*
 - b. *The plans do not show the existing drainage system to be able to quantify cleaning and flushing the existing system. Please provide drainage plans to perform rock replacement shown on Detail 09/TF-07 and clarify extent of cleaning, such as any required pipe bladders or balling of interior pipe will be required and if sediment is required to be captured at the last outfall location within the project site.*
- 6. *At this site there are several localized base failures near the edges. Please identify all the failures and provide specifications for the required repairs.*

ANSWERS:

- 1. As-built details indicate two stone system.
 - a. As-built drawings indicated a two stone system with leveling course. If two stone system is encountered the top stone should be removed completely within the 10' transition zone and replaced with permeable base material as needed with specified permeable base.
 - b. Refer to Part 3 of Section 32 18 13 for protection and preparation of existing permeable base.
 - c. There is no impermeable layer. Omit any references to impermeable layer.
 - d. It is possible to shim and has been done on numerous fields in the area. Refer to supplemental Detail 06, Sheet TF-08.
- 2. See revised plans and as-built drawings for approximate location and quantities of comm/electrical and irrigation boxes.
- 3. Omit reference to powder coating goal posts. Remove loose or flaking paint with pressure washer, apply primer coat and paint with two coats of exterior Neon Yellow. Contractor shall also adjust goal post arms and uprights to plum & level.
- 4. Surfacing Note 11:
 - a. See revised Sheet TF-05.
 - b. Allowance provided for rail, posts and gate repairs. Refer to supplemental Section 32 31 13 for chain link fencing in this addendum.
 - c. Existing posts and rails are either powder coated or painted. Remove any vinyl coating or any loose paint with scraper and sand paper. Apply primer coat. Apply two coats of exterior enamel paint for metal. Refer to fence specification in

- this addendum. Paint shall be Dunn Edwards Exterior Premium Exterior with color per District direction to match existing Refer to supplemental Section 32 31 13 for chain link fencing in this addendum.
- d. Allowance provided for rail, posts and gate repairs. Refer to supplemental Section 32 31 13 for chain link fencing in this addendum.
5. General Note 5:
- a. Damage to existing drainage not caused by the contractor or construction activities shall be considered additional work.
- b. Refer to as-built plans for existing drainage and utilities.
6. Bid per plan.

QUESTION:

“SHEET TF-08: DETAILS:

Detail 05 states to remove top 2” of existing soil and organics and apply new topsoil. Can the existing organics be thoroughly pulverized and rototilled into the existing soil? This provides three advantages of less costs to remove and dispose of organics, less import topsoil, and add much need organics to the native soil to support the turfgrass.”

ANSWER:

Pulverizing and tilling of existing material is acceptable. Contractor shall protect existing irrigation and utilities from all construction operations.

PLAN SHEETS – YERBA BUENA HIGH SCHOOL

QUESTIONS PERTAINING TO Sheet TF-02: Demolition Plan:

1. *General Note #8 states to renovation all infield boxes per plan notes and details. This is too vague in what is required. The plans do not show where any of the existing boxes are located, the type and size of box, and what is specifically required to each box. Please clarify requirements and provide a list of boxes or plan that shows the box type and size and any requirements for each box.*
2. *Protect in place Note #11 states contractor must repair holes, chips, cracks, bumps, and dips. This is open ended and no way to identify all possible required repairs during the bid period. Either provide an allowance for this scope or provide a square footage quantity to be included in the base bid, then any additional or reduction can be adjusted through a contract change order.*

ANSWERS:

1. Refer to revised sheet TF-02 and as-built plans for box locations.

2. As stated in the General Conditions the contractor is responsible to protect existing asphalt in place and repair any damage caused by the Contractor or construction activities.

QUESTIONS PERTAINING TO Sheet TF-03: Surfacing Plan:

1. Surfacing Note #4 and Detail 3/TF-05 states to adjust field base at perimeter and adjust nailer board elevations. Note #4 further states contractor is responsible to replace damaged nailer boards. Please clarify the following:
 - a. Please clarify if the existing base system is a single stone layer or the older two stone system.
 - b. If a two stone system, should the top stone be removed completely within the 10' transition zone shown on Detail 6/TF-05 and replaced with single stone class 2 permeable rock?
 - c. Please provide any requirements to respread removed turf base material on the remaining existing synthetic turf base and clarify that any existing areas that are not within tolerances will be considered unforeseen and paid for as extra work.
 - d. Please clarify adjustment of the nailer board. There is no way to shim or adjust the nailer board without complete removal and replacement. It cannot be determined at bid time the quantity of damaged nailer board. If the new turf infill section is a different section than the existing turf, clarify either complete replacement of the nailer board with new or have the turf contractor add more infill within a certain transition zone to match the grades.
2. Surfacing Note #7 states to repair or replace any damaged slot drain sections to match existing. The plans do not indicate the specific locations where repair is needed. Please identify all such sections that require repair or provide an allowance since it cannot be fully identified during the bid period.
3. Surfacing Note #8 states to repair as needed existing fence and rails and paint posts, rails, and gates; repair gates and hardware as needed. This is too vague and open ended on exactly what is required. Please clarify the following:
 - a. For fence repairs, either provide an allowance or state specifically what repairs are required.
 - b. For painting posts and rails, provide the requirements for painting, such as all existing paint or vinyl coating shall be removed, galvanize pipe etching, prime coat, and type and number of coats of paint required.
 - c. For gate and hardware repair, either provide an allowance or state specifically what repairs are required.

4. Surfacing Note #12 states to clean and powder coat existing goal posts. Powder coating cannot be field applied and would require removal of the goal posts and shipped to a facility with large enough capacity to perform the powder coating. Please confirm powder coating is required in lieu of field painting. If field painting is chosen, please clarify the cleaning process such as removing paint or etching surfacing to receive new paint.
5. Surfacing Note #14 states to adjust communication/electrical and irrigation boxes as needed to sit flush with surface. The plans do not show where any of the existing boxes are located or the type and size of box. Please provide a plan that identifies the location of the boxes, type of box and if any replacement is required as indicated on Detail 07/TF-05.
6. General Note #5 states existing drainage system must be maintained or repaired whenever damage is discovered and all drainage systems within the work shall be cleaned and flushed. Please clarify the following:
 - a. Please confirm that any damaged discovered will be paid for as extra work for unforeseen conditions.
 - b. The plans do not show the existing drainage system to be able to quantify cleaning and flushing the existing system. Please provide drainage plans and clarify extent of cleaning, such as any required pipe bladders or balling of interior pipe will be required and if sediment is required to be captured at the last outfall location within the project site.

ANSWERS:

1. Surfacing Note #4:
 - a. As-built details indicate two stone system.
 - b. As-built drawings indicated a two stone system with leveling course. If two stone system is encountered the top stone should be removed completely within the 10' transition zone and replaced with permeable base material as needed with specified permeable base.
 - c. Refer to Part 3 of Section 32 18 13 for protection and preparation of existing permeable base.
 - d. It is possible to shim and has been done on numerous fields in the area. Refer to supplemental Detail 03, Sheet TF-06.
2. Omit reference to slot drain repairs.
3. Allowance provided for rail, posts and gate repairs. Refer to supplemental Section 32 31 13 for chain link fencing in this addendum.
4. Surfacing Note 08:
 - a. Existing posts and rails are either powder coated or painted. Remove any vinyl coating or any loose paint with scraper and sand paper. Apply primer coat. Apply two coats of exterior enamel paint for metal. Refer to fence specification in this addendum. Paint shall be Dunn Edwards Exterior Premium Exterior with color per District direction to match existing. Refer to supplemental Section 32 31

- 13 for chain link fencing in this addendum. (Color to be Dark Gray per District Direction)
- b. Allowance provided for gate repairs. Refer to supplemental Section 32 31 13 for chain link fencing in this addendum.
- 5. Omit reference to powder coating goal posts. Remove loose or flaking paint with pressure washer, apply primer coat and paint with two coats of exterior Neon Yellow. Contractor shall also adjust goal post arms and uprights to plum & level.
- 6. General Note 5:
 - a. Damage to existing drainage not caused by the contractor or construction activities shall be considered additional work.
 - b. Refer to as-built plans for existing drainage and utilities.

PLAN SHEETS – JAMES LICK HIGH SCHOOL

QUESTIONS PERTAINING TO Sheet TF-02: Demolition Plan:

1. General Note #8 states to renovation all infield boxes per plan notes and details. This is too vague in what is required. The plans do not show where any of the existing boxes are located, the type and size of box, and what is specifically required to each box. Please clarify requirements and provide a list of boxes or plan that shows the box type and size and any requirements for each box.
2. Protect in place Note #11 states contractor must repair holes, chips, cracks, bumps, and dips. This is open ended and no way to identify all possible required repairs during the bid period. Either provide an allowance for this scope or provide a square footage quantity to be included in the base bid, then any additional or reduction can be adjusted through a contract change order.

ANSWER:

As stated in the General Conditions the contractor is responsible to protect existing asphalt in place and repair any damage caused by the Contractor or construction activities.

QUESTIONS PERTAINING TO Sheet TF-03: Surfacing Plan:

1. Surfacing Note #4 and Detail 3/TF-05 states to adjust field base at perimeter and adjust nailer board elevations. Note #4 further states contractor is responsible to replace damaged nailer boards. Please clarify the following:
 - a. Please clarify if the existing base system is a single stone layer or the older two stone system.

- b. If a two stone system, should the top stone be removed completely within the 10' transition zone shown on Detail 6/TF-05 and replaced with single stone class 2 permeable rock?
 - c. Please provide any requirements to respread removed turf base material on the remaining existing synthetic turf base and clarify that any existing areas that are not within tolerances will be considered unforeseen and paid for as extra work.
 - d. Please clarify adjustment of the nailer board. There is no way to shim or adjust the nailer board without complete removal and replacement. It cannot be determined at bid time the quantity of damaged nailer board. If the new turf infill section is a different section than the existing turf, clarify either complete replacement of the nailer board with new or have the turf contractor add more infill within a certain transition zone to match the grades.
- 2. Surfacing Note #7 states to repair or replace any damaged slot drain sections to match existing. The plans do not indicate the specific locations where repair is needed. Please identify all such sections that require repair or provide an allowance since it cannot be fully identified during the bid period.
- 3. Surfacing Note #8 states to repair as needed existing fence and rails and paint posts, rails, and gates; repair gates and hardware as needed. This is too vague and open ended on exactly what is required. Please clarify the following:
 - a. For fence repairs, either provide an allowance or state specifically what repairs are required.
 - b. For painting posts and rails, provide the requirements for painting, such as all existing paint or vinyl coating shall be removed, galvanize pipe etching, prime coat, and type and number of coats of paint required.
 - c. For gate and hardware repair, either provide an allowance or state specifically what repairs are required.
- 4. Surfacing Note #12 states to clean and powder coat existing goal posts. Powder coating cannot be field applied and would require removal of the goal posts and shipped to a facility with large enough capacity to perform the powder coating. Please confirm powder coating is required in lieu of field painting. If field painting is chosen, please clarify the cleaning process such as removing paint or etching surfacing to receive new paint.
- 5. Surfacing Note #15 states to adjust communication/electrical and irrigation boxes as needed to sit flush with surface. The plans do not show where any of the existing boxes are located or the type and size of box. Please provide a plan that identifies the location of the boxes, type of box and if any replacement is required as indicated on Detail 07/TF-05.

6. General Note #5 states existing drainage system must be maintained or repaired whenever damage is discovered and all drainage systems within the work shall be cleaned and flushed. Please clarify the following:
 - a. Please confirm that any damaged discovered will be paid for as extra work for unforeseen conditions.
 - b. The plans do not show the existing drainage system to be able to quantify cleaning and flushing the existing system. Please provide drainage plans and clarify extent of cleaning, such as any required pipe bladders or bailing of interior pipe will be required and if sediment is required to be captured at the last outfall location within the project site.

ANSWER:

1. Surfacing Note #4
 - a. As-built details indicate two stone system.
 - b. As-built drawings indicated a two stone system with leveling course. If two stone system is encountered the top stone should be removed completely within the 10' transition zone and replaced with permeable base material as needed with specified permeable base.
 - c. Refer to Part 3 of Section 32 18 13 for protection and preparation of existing permeable base.
 - d. It is possible to shim and has been done on numerous fields in the area. Refer to supplemental Detail 03, Sheet TF-06.
2. Omit reference to slot drain repairs.
3. Surfacing Note #8
 - a. Allowance provided for rail, posts and gate repairs. Refer to supplemental Section 32 31 13 for chain link fencing in this addendum.
 - b. Existing posts and rails are either powder coated or painted. Remove any vinyl coating or any loose paint with scraper and sand paper. Apply primer coat. Apply two coats of exterior enamel paint for metal. Refer to fence specification in this addendum. Paint shall be Dunn Edwards Exterior Premium Exterior with color per District direction to match existing Refer to supplemental Section 32 31 13 for chain link fencing in this addendum.
 - c. Allowance provided for gate repairs. Refer to supplemental Section 32 31 13 for chain link fencing in this addendum.
4. Omit reference to powder coating goal posts. Remove loose or flaking paint with pressure washer, apply primer coat and paint with two coats of exterior Neon Yellow. Contractor shall also adjust goal post arms and uprights to plum & level.
5. Refer to revised Sheet TF-03 and as-built plans for box locations.
6. General Note #5
 - a. Damage to existing drainage not caused by the contractor or construction activities shall be considered additional work.

- b. Refer to as-built plans for existing drainage and utilities. Clean and flush drains to free flowing and clean water capturing all sediment and debris as required by the California State Water Board.

END OF DOCUMENT

AGREEMENT ADDENDA 02

THIS AGREEMENT IS MADE AND ENTERED INTO THIS _____ DAY OF _____, 20____, by and between the East Side Union High School District ("District") and _____ ("Contractor") ("Agreement").

WITNESSETH: That the parties hereto have mutually covenanted and agreed, and by these presents do covenant and agree with each other, as follows:

- 1. The Work:** Contractor agrees to furnish all tools, equipment, apparatus, facilities, labor, and material necessary to perform and complete in a good and workmanlike manner, the work of the following project:

DW Infrastructure – Synthetic Turf Fields at Piedmont Hills, Yerba Buena & James Lick High Schools

("Project" or "Contract" or "Work")

It is understood and agreed that the Work shall be performed and completed as required in the Contract Documents including, without limitation, the Drawings and Specifications and submission of all documents required to secure funding or by the Division of the State Architect for close-out of the Project, under the direction and supervision of, and subject to the approval of, the District or its authorized representative.

- 2. The Contract Documents:** The complete Contract consists of all Contract Documents as defined in the General Conditions and incorporated herein by this reference. Any and all obligations of the District and Contractor are fully set forth and described in the Contract Documents. All Contract Documents are intended to cooperate so that any Work called for in one and not mentioned in the other or vice versa is to be executed the same as if mentioned in all Contract Documents.
- 3. Interpretation of Contract Documents:** Should any question arise concerning the intent or meaning of Contract Documents, including the Drawings or Specifications, the question shall be submitted to the District for interpretation. If a conflict exists in the Contract Documents, valid, written modifications, beginning with the most recent, shall control over this Agreement (if any), which shall control over the Special Conditions, which shall control over any Supplemental Conditions, which shall control over the General Conditions, which shall control over the remaining Division 0 documents, which shall control over Division 1 Documents which shall control over Division 2 through Division 18 documents, which shall control over figured dimensions, which shall control over large-scale drawings, which shall control over small-scale drawings. In no case shall a document calling for lower quality and/or quantity material or workmanship control. The decision of the District in the matter shall be final.

- 4. Time for Completion:** It is hereby understood and agreed that the Work under this Contract shall be completed within **One Hundred and Thirty Nine (139)**

**EAST SIDE UNION HIGH SCHOOL DISTRICT
Project No. Z-XXX-818,
Piedmont Hills, Yerba Buena & James Lick High Schools
DW Infrastructure-Synthetic Turf Field
Bid #: B-03-18-19 / CP2789**

**AGREEMENT Addenda 02
Adopted: 01/19/2017**

consecutive calendar days ("Contract Time") from the date specified in the District's Notice to Proceed.

- 5. Completion - Extension of Time:** Should the Contractor fail to complete this Contract, and the Work provided herein, within the time fixed for completion, due allowance being made for the contingencies provided for herein, the Contractor shall become liable to the District for all loss and damage that the District may suffer on account thereof. The Contractor shall coordinate its Work with the Work of all other contractors. The District shall not be liable for delays resulting from Contractor's failure to coordinate its Work with other contractors in a manner that will allow timely completion of Contractor's Work. Contractor shall be liable for delays to other contractors caused by Contractor's failure to coordinate its Work with the Work of other contractors.
- 6. Liquidated Damages:** Time is of the essence for all work under this Agreement. It is hereby understood and agreed that it is and will be difficult and/or impossible to ascertain and determine the actual damage that the District will sustain in the event of and by reason of Contractor's delay; therefore, Contractor agrees that it shall pay to the District the sum of **One Thousand Five Hundred dollars (\$1,500)** per day as liquidated damages for each and every day's delay beyond the time herein prescribed in finishing the Work.

It is hereby understood and agreed that this amount is not a penalty.

In the event that any portion of the liquidated damages is not paid to the District, the District may deduct that amount from any money due or that may become due the Contractor under this Agreement, and such deduction does not constitute a withholding or penalty. The District's right to assess liquidated damages is as indicated herein and in the General Conditions.

The time during which the Contract is delayed for cause, as hereinafter specified, may extend the time of completion for a reasonable time as the District may grant, provided that Contractor has complied with the claims procedure of the Contract Documents. This provision does not exclude the recovery of damages by either party under other provisions in the Contract Documents.
- 7. Loss Or Damage:** The District and its agents and authorized representatives shall not in any way or manner be answerable or suffer loss, damage, expense, or liability for any loss or damage that may happen to the Work, or any part thereof, or in or about the same during its construction and before acceptance, and the Contractor shall assume all liabilities of every kind or nature arising from the Work, either by accident, negligence, theft, vandalism, or any cause whatsoever; and shall hold the District and its agents and authorized representatives harmless from all liability of every kind and nature arising from accident, negligence, or any cause whatsoever.
- 8. Insurance and Bonds:** Prior to issuance of the Notice to Proceed by the District, Contractor shall provide all required certificates of insurance, insurance endorsements, and payment and performance bonds as evidence thereof.

9. **Prosecution of Work:** If the Contractor should neglect to prosecute the Work properly or fail to perform any provisions of this Contract, the District, may, pursuant to the General Conditions and without prejudice to any other remedy it may have, make good such deficiencies and may deduct the cost thereof from the payment then or thereafter due the Contractor.
10. **Authority of Architect, Project Inspector, and DSA:** Contractor hereby acknowledges that the Architect(s), the Project Inspector(s), and the Division of the State Architect ("DSA") have authority to approve and/or suspend Work if the Contractor's Work does not comply with the requirements of the Contract Documents, Title 24 of the California Code of Regulations, and all applicable laws and regulations. The Contractor shall be liable for any delay caused by its non-compliant Work.
11. **Assignment of Contract:** Neither the Contract, nor any part thereof, nor any moneys due or to become due thereunder, may be assigned by the Contractor without the prior written approval of the District, nor without the written consent of the Surety on the Contractor's Performance Bond (the "Surety"), unless the Surety has waived in writing its right to notice of assignment.
12. **Classification of Contractor's License:** Contractor hereby acknowledges that it currently holds valid Type **B – General Building Contractor** Contractor's license(s) issued by the State of California, Contractors' State License Board, in accordance with division 3, chapter 9, of the Business and Professions Code and in the classification called for in the Contract Documents.
13. **Registration as Public Works Contractor:** The Contractor and all Subcontractors currently are registered as public works contractors with the Department of Industrial Relations, State of California, in accordance with Labor Code section 1771.1.
14. **Payment of Prevailing Wages:** The Contractor and all Subcontractors shall pay all workers on all Work performed pursuant to this Contract not less than the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work as determined by the Director of the Department of Industrial Relations, State of California, for the type of work performed and the locality in which the work is to be performed within the boundaries of the District, pursuant to sections 1770 et seq. of the California Labor Code. The Contractor and all Subcontractors shall comply with the Davis Bacon Act, applicable reporting requirements, and any other applicable requirements for federal funding. If a conflict exists, the more stringent provision shall control over this Agreement.
15. This Project is subject to labor compliance monitoring and enforcement by the Department of Industrial Relations pursuant to Labor Code section 1771.4 and Title 8 of the California Code of Regulations. Contractor specifically acknowledges and understands that it shall perform the Work of this Agreement while complying with all the applicable provisions of Division 2, Part 7, Chapter 1, of the Labor Code, including, without limitation, the requirement that the Contractor and all of its Subcontractors shall timely submit complete and accurate electronic certified payroll

records as required by the Contract Documents, or the District may not issue payment.

- 16. Contract Price:** In consideration of the foregoing covenants, promises, and agreements on the part of the Contractor, and the strict and literal fulfillment of each and every covenant, promise, and agreement, and as compensation agreed upon for the Work and construction, erection, and completion as aforesaid, the District covenants, promises, and agrees that it will well and truly pay and cause to be paid to the Contractor in full, and as the full Contract Price and compensation for construction, erection, and completion of the Work hereinabove agreed to be performed by the Contractor, the following price:

_____ **Dollars**
(\$ _____),

in lawful money of the United States, which sum is to be paid according to the schedule provided by the Contractor and accepted by the District and subject to additions and deductions as provided in the Contract. This amount supersedes any previously stated and/or agreed to amount(s).

- 17. No Representations:** No representations have been made other than as set forth in writing in the Contract Documents, including this Agreement. Each of the Parties to this Agreement warrants that it has carefully read and understood the terms and conditions of this Agreement and all Contract Documents, and that it has not relied upon the representations or advice of any other Party or any attorney not its own.
- 18. Entire Agreement:** The Contract Documents, including this Agreement, set forth the entire agreement between the parties hereto and fully supersede any and all prior agreements, understandings, written or oral, between the parties hereto pertaining to the subject matter thereof.
- 19. Severability:** If any term, covenant, condition, or provision in any of the Contract Documents is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remainder of the provisions in the Contract Documents shall remain in full force and effect and shall in no way be affected, impaired, or invalidated thereby.

IN WITNESS WHEREOF, accepted and agreed on the date indicated above:

CONTRACTOR

EAST SIDE UNION HIGH SCHOOL DISTRICT

By: _____

By: Chris Jew

Title: _____

Title: Associate Superintendent of Business Services

NOTE: If the party executing this Contract is a corporation, a certified copy of the by-laws, or of the resolution of the Board of Directors, authorizing the officers of said corporation to execute the Contract and the bonds required thereby must be attached hereto. END OF DOCUMENT

EAST SIDE UNION HIGH SCHOOL DISTRICT
Project No. Z-XXX-818,
Piedmont Hills, Yerba Buena & James Lick High Schools
DW Infrastructure-Synthetic Turf Field
Bid #: B-03-18-19 / CP2789

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SPECIAL CONDITIONS ADDENDA 02

1. Mitigation Measures

Contractor shall comply with all applicable mitigation measures, if any, adopted by any public agency with respect to this Project pursuant to the California Environmental Quality Act. (Public Resources Code section 21000 *et seq.*)

2. Modernization Projects

2.1 Access. Access to the school buildings and entry to buildings, classrooms, restrooms, mechanical rooms, electrical rooms, or other rooms, for construction purposes, must be coordinated with District and onsite District personnel before Work is to start. Unless agreed to otherwise in writing, only a school custodian will be allowed to unlock and lock doors in existing building(s). The custodian will be available only while school is in session. If a custodian is required to arrive before 7:00 a.m. or leave after 3:30 p.m. to accommodate Contractor's Work, the overtime wages for the custodian will be paid by the Contractor, unless at the discretion of the District, other arrangements are made in advance.

2.2 Keys. Upon request, the District may, at its own discretion, provide keys to the school site for the convenience of the Contractor. The Contractor agrees to pay all expenses to re-key the entire school site and all other affected District buildings if the keys are lost or stolen, or if any unauthorized party obtains a copy of the key or access to the school.

2.3 Maintaining Services. The Contractor is advised that Work is to be performed in spaces regularly scheduled for instruction. Interruption and/or periods of shutdown of public access, electrical service, water service, lighting, or other utilities shall be only as arranged in advance with the District. Contractor shall provide temporary services to all facilities interrupted by Contractor's Work.

2.4 Maintaining Utilities. The Contractor shall maintain in operation during duration of Contract, drainage lines, storm drains, sewers, water, gas, electrical, steam, and other utility service lines within working area.

2.5 Confidentiality. Contractor shall maintain the confidentiality of all information, documents, programs, procedures and all other items that Contractor encounters while performing the Work. This requirement shall be ongoing and shall survive the expiration or termination of this Contract and specifically includes, without limitation, all student, parent, and employee disciplinary information and health information.

2.6 Work during Instructional Time. By submitting its bid, Contractor affirms that Work may be performed during ongoing instruction in existing facilities. If so, Contractor agrees to cooperate to the best of its ability to minimize any

disruption to school operations and any use of school facilities by the public up to, and including, rescheduling specific work activities, at no additional cost to District.

2.7 No Work during Student Testing. Contractor shall, at no additional cost to the District and at the District's request, coordinate its Work to not disturb District students including, without limitation, not performing any Work when students at the Site are taking State or Federally-required tests.

3. Badge Policy for Contractors

All Contractors doing work for the District will provide their workers with identification badges. These badges will be worn by all members of the Contractor's staff who are working in a District facility.

3.1 Badges must be filled out in full and contain the following information:

3.1.1 Name of Contractor

3.1.2 Name of Employee

3.1.3 Contractor's address and phone number

3.2 Badges are to be worn when the Contractor or his/her employees are on site and must be visible at all times. Contractors must inform their employees that they are required to allow District employees, the Architect, the Construction Manager, the Program Manager, or the Project Inspector to review the information on the badges upon request.

3.3 Continued failure to display identification badges as required by this policy may result in the individual being removed from the Project or assessment of fines against the Contractor.

4. Substitution for Specified Items

4.1 Whenever in the Specifications any materials, process, or article is indicated or specified by grade, patent, or proprietary name, or by name of manufacturer, that Specification shall be deemed to be followed by the words "or equal." Contractor may, unless otherwise stated, offer any material, process, or article that shall be substantially equal or better in every respect to that so indicated or specified.

4.1.1 If the material, process, or article offered by Contractor is not, in the opinion of the District, substantially equal or better in every respect to that specified, then Contractor shall furnish the material, process, or article specified in the Specifications without any additional compensation or change order.

4.1.2 This provision shall not be applicable with respect to any material, product, thing or service for which District made findings and gave notice in accordance with Public Contract Code section 3400(c); therefore, Contractor shall not be entitled to request a substitution with respect to those materials, products or services.

4.2 A request for a substitution shall be submitted as follows:

4.3 District must receive any substitution submittals a minimum of ten (10) calendar days prior to bid opening.

4.4 Approved substitutions, if any, shall be listed in Addenda. District reserves the right not to act upon submittals of substitutions until after bid opening.

4.4.1 All variations of the proposed substitute from the material specified including, but not limited to, principles of operation, materials, or construction finish, thickness or gauge of materials, dimensions, weight, and tolerances;

4.4.2 Available maintenance, repair or replacement services;

4.4.3 Increases or decreases in operating, maintenance, repair, replacement, and spare parts costs;

4.4.4 Whether or not acceptance of the substitute will require other changes in the Work (or in work performed by the District or others under Contract with the District); and

4.4.5 The time impact on any part of the Work resulting directly or indirectly from acceptance of the proposed substitute.

4.5 No substitutions shall be made until approved, in writing, by the District. The burden of proof as to equality of any material, process, or article shall rest with Contractor. The Contractor warrants that if substitutes are approved:

4.5.1 The proposed substitute is equal or superior in all respects to that specified, and that such proposed substitute is suitable and fit for the intended purpose and will perform adequately the function and achieve the results called for by the general design and the Contract Documents;

4.5.2 The Contractor provides the same warranties and guarantees for the substitute that would be provided for that specified;

4.5.3 The Contractor shall be fully responsible for the installation of the substitute and any changes in the Work required, either directly or indirectly, because of the acceptance of such substitute, with no increase in Contract Price or Contract Time. Incidental changes or extra component parts required to accommodate the substitute will be made by the Contractor without a change in the Contract Price or Contract Time;

4.5.4 The Contractor shall be responsible for any re-design costs occasioned by District's acceptance and/or approval of any substitute; and

4.5.5 The Contractor shall, in the event that a substitute is less costly than that specified, credit the District with one hundred percent (100%) of the net difference between the substitute and the originally specified material. In this event, the Contractor agrees to execute a deductive Change Order to reflect that credit.

4.6 In the event Contractor furnishes a material, process, or article more expensive than that specified, the difference in the cost of that material, process, or article so furnished shall be borne by Contractor.

4.7 In no event shall the District be liable for any increase in Contract Price or Contract Time due to any claimed delay in the evaluation of any proposed substitute or in the acceptance or rejection of any proposed substitute.

4.8 Contractor shall be responsible for any costs the District incurs for professional services, DSA fees, or delay to the Project Schedule, if applicable, while DSA reviews changes for the convenience of Contractor and/or to accommodate Contractor's means and methods. District may deduct those costs from any amounts owing to the Contractor for the review of the request for substitution, even if the request for substitution is not approved. District, at its sole discretion, shall deduct from the payments due to and/or invoice Contractor for all the professional services and/or DSA fees or delay to the Project Schedule, if applicable, while DSA reviews changes for the convenience of Contractor and/or to accommodate Contractor's means and methods arising herein.

5. Weather Days

Delays due to Adverse Weather conditions will only be permitted in compliance with the provisions in the General Conditions and only if the number of days of Adverse Weather exceeds the following parameters and Contractor can verify that the excess days of Adverse Weather caused delays:

| | | | |
|----------|------------------|-----------|------------------|
| January | <u>11</u> | July | <u>0</u> |
| February | <u>9</u> | August | <u>1</u> |
| March | <u>8</u> | September | <u>4</u> |
| April | <u>6</u> | October | <u>6</u> |
| May | <u>4</u> | November | <u>9</u> |
| June | <u>1</u> | December | <u>10</u> |

6. Insurance Policy Limits

All of Contractor's insurance shall be with insurance companies with an A.M. Best rating of no less than **A-VII**. The limits of insurance shall not be less than:

| | | |
|-------------------------------------|---|---|
| Commercial General Liability | Product Liability and Completed Operations, Fire Damage Liability – Split Limit | |
| | | \$2,000,000 per occurrence; \$4,000,000 aggregate |
| | | |

| | | |
|--|-----------------------|--|
| Automobile Liability – Any Auto | Combined Single Limit | \$2,000,000 |
| | | |
| Workers’ Compensation | | Statutory limits pursuant to State law |
| Employers’ Liability | | \$1,000,000 |
| Builder’s Risk (Course of Construction) | | Issued for the value and scope of Work indicated herein. |
| Pollution Liability | | \$1,000,000 |

7. Permits, Certificates, Licenses, Fees, Approvals

7.1 Payment for Permits, Certificates, Licenses, Fees, and Approvals. As required in the General Conditions, the Contractor shall secure and pay for all permits, licenses, approvals, and certificates necessary for the prosecution of the Work with the exception of the following:

7.1.1 N/A

With respect to the above-listed items, Contractor shall be responsible for securing such items; however, District will be responsible for payment of these charges or fees. Contractor shall notify the District of the amount due with respect to such items and to whom the amount is payable. Contractor shall provide the District with an invoice and receipt with respect to such charges or fees.

8. Project Labor Agreement/Payroll Records

The District has entered into a Project Labor Agreement (“PLA”), which covers this Project. Accordingly, the following provision is added as Section 26.4.6:

26.4.6 As Contractor and its subcontractors have agreed to be bound by the terms of the PLA entered into by the District on or about dated 5/9/13, Contractor and its subcontractors may be excused from uploading CPRs electronically using DIR’s eCPR System by uploading the CPRs by electronic XML file or entering each record manually using the DIR’s iform (or current form) online at <http://www.dir.ca.gov/Public-Works/Certified-Payroll-Reporting.html> , or by using a more current application and URL. However, within ten (10) days of any request by the District or Labor Commissioner, Contractor and its subcontractors shall provide CPRs showing the name, address, social security number, work classification,

straight time, and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker, or other employee employed by the Contractor and/or each subcontractor in connection with the Work.

9. As-Builts and Record Drawings

9.1 Contractor shall submit Record Drawings pursuant to the Contract Documents consisting of one set of Record Drawings on in PDF Format.

10. Fingerprinting

Contractor shall comply with the provisions of Education Code section 45125.2 regarding the submission of employee fingerprints to the California Department of Justice and the completion of criminal background investigations of its employees, its subcontractor(s), and its subcontractors' employees. Contractor shall not permit any employee to have any contact with District pupils until such time as Contractor has verified in writing to the governing board of the District, that such employee has not been convicted of a violent or serious felony, as defined in Education Code section 45122.1. Contractor shall fully complete and perform all tasks required pursuant to the Criminal Background Investigation/ Fingerprinting Certification.

11. Disabled Veteran Business Enterprises

This Project uses or may plan to use funds allocated pursuant to the State of California School Facility Program ("Program") for the construction and/or modernization of school buildings. Therefore, Section 17076.11 of the Education Code requires the District to have a participation goal for disabled veteran business enterprises ("DVBE") of at least three percent (3%), per year, of the overall dollar amount expended each year by the District on projects that receive state funding and the Contractor must submit the Disabled Veteran Business Enterprise Participation Certification to the District with its executed Agreement, identifying the steps Contractor took to solicit DVBE participation in conjunction with this Contract.

12. Construction Manager

The District will use a Construction Manager on the Project that is the subject of this Contract. Gilbane, Alex Morrison (408) 438-0411 is the Construction Manager for this Project.

13. Program Manager

None

14. Preliminary Schedule of Values

The preliminary schedule of values shall include, at a minimum, the following information and the following structure:

Replace provision in the General Conditions with the following provisions:

14.1.1.2.3. The preliminary schedule of values shall not provide for values any greater than the following percentages of the Contract value:

14.1.2.3.1 Mobilization and layout combined to equal not more than [1]%;

14.1.1.2.3.2 Submittals, samples and shop drawings combined to equal not more than [3]%;

14.1.1.2.3.3 Bonds and insurance combined to equal not more than [2]%.

14.1.1.2.3.4 Schedule of Values must have a least [3%] of the bid amount allocated for closeout activities as a separate line item.

END OF DOCUMENT

SUMMARY OF WORK ADDENDUM 02

PART 1 - GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions, including, without limitation, Site Access Conditions and Requirements;
- B. Special Conditions.

1.02 SUMMARY OF WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of this Contract includes but is not necessarily limited to the following:

Removal of the existing track and synthetic field surfaces, as-needed repairs to portions of the underlying Asphalt and Base Rock, and installation of new track and field surfacing. Also included will be repairs to existing facilities adjacent to the track.

- B. Allowances:
 - (1) Provide a **\$60,000** line item allowance to provide center field logos. Please note that this allowance applies to all 3 sites, \$20,000.00 will be allocated to each site.
 - (2) Contractor shall provide a **\$15,000** line item allowance to perform repairs to existing rail, posts and gate repairs. Note that this allowance does not refer to replacing chain link (fabric) on rail, posts and gates as this is in the base contract. Please also note that this allowance applies to all 3 sites, \$5,000.00 will be allocated to each site.

1.03 CONTRACTS

- A. Perform the Work under a single, fixed-price Contract.

1.04 WORK BY OTHERS

- A. Work on the Project that will be performed and completed prior to the start of the Work of this Contract:
 - (1) None

- B. Work on the Project that will be performed by others concurrent with the Work of this Contract:

- (1) None

1.05 CODES, REGULATIONS, AND STANDARDS

- A. The codes, regulations, and standards adopted by the state and federal agencies having jurisdiction shall govern minimum requirements for this Project. Where codes, regulations, and standards conflict with the Contract Documents, these conflicts shall be brought to the immediate attention of the District and the Architect.
- B. Codes, regulations, and standards shall be as published effective as of date of bid opening, unless otherwise specified or indicated.

1.06 PROJECT RECORD DOCUMENTS

- A. Contractor shall maintain on Site one set of the following record documents; Contractor shall record actual revisions to the Work:
 - (1) Contract Drawings.
 - (2) Specifications.
 - (3) Addenda.
 - (4) Change Orders and other modifications to the Contract.
 - (5) Reviewed shop drawings, product data, and samples.
 - (6) Field test records.
 - (7) Inspection certificates.
 - (8) Manufacturer's certificates.
- B. Contractor shall store Record Documents separate from documents used for construction. Provide files, racks, and secure storage for Record Documents and samples.
- C. Contractor shall record information concurrent with construction progress.
- D. Specifications: Contractor shall legibly mark and record at each product section of the Specifications the description of the actual product(s) installed, including the following:
 - (1) Manufacturer's name and product model and number.
 - (2) Product substitutions or alternates utilized.

- (3) Changes made by Addenda and Change Orders and written directives.

1.07 EXAMINATION OF EXISTING CONDITIONS

- A. Contractor shall be held to have examined the Project Site and acquainted itself with the conditions of the Site and of the streets or roads approaching the Site.
- B. Prior to commencement of Work, Contractor shall survey the Site and existing buildings and improvements to observe existing damage and defects such as cracks, sags, broken, missing or damaged glazing, other building elements and Site improvements, and other damage.
- C. Should Contractor observe cracks, sags, and other damage to and defects of the Site and adjacent buildings, paving, and other items not indicated in the Contract Documents, Contractor shall immediately report same to the District and the Architect.

1.08 CONTRACTOR'S USE OF PREMISES

- A. If unoccupied and only with District's prior written approval, Contractor may use the building(s) at the Project Site without limitation for its operations, storage, and office facilities for the performance of the Work. If the District chooses to beneficially occupy any building(s), Contractor must obtain the District's written approval for Contractor's use of spaces and types of operations to be performed within the building(s) while so occupied. Contractor's access to the building(s) shall be limited to the areas indicated.
- B. If the space at the Project Site is not sufficient for Contractor's operations, storage, office facilities and/or parking, Contractor shall arrange and pay for any additional facilities needed by Contractor.
- C. Contractor shall not interfere with use of or access to occupied portions of the building(s) or adjacent property.
- D. Contractor shall maintain corridors, stairs, halls, and other exit-ways of building clear and free of debris and obstructions at all times.
- E. No one other than those directly involved in the demolition and construction, or specifically designated by the District or the Architect shall be permitted in the areas of work during demolition and construction activities.
- F. The Contractor shall install the construction fence and maintain that it will be locked when not in use. Keys to this fencing will be provided to the District.

1.09 PROTECTION OF EXISTING STRUCTURES AND UTILITIES

- A. The Drawings show above-grade and below-grade structures, utility lines, and other installations that are known or believed to exist in the area of the Work. Contractor shall locate these existing installations before proceeding with excavation and other operations that could damage same; maintain them in

service, where appropriate; and repair damage to them caused by the performance of the Work. Should damage occur to these existing installations, the costs of repair shall be at the Contractor's expense and made to the District's satisfaction.

- B. Contractor shall be alert to the possibility of the existence of additional structures and utilities. If Contractor encounters additional structures and utilities, Contractor will immediately report to the District for disposition of same as indicated in the General Conditions.

1.10 UTILITY SHUTDOWNS AND INTERRUPTIONS

- A. Contractor shall give the District a minimum of three (3) days written notice in advance of any need to shut off existing utility services or to effect equipment interruptions. The District will set exact time and duration for shutdown, and will assist Contractor with shutdown. Work required to re-establishing utility services shall be performed by the Contractor.
- B. Contractor shall obtain District's written approval as indicated in the General Conditions in advance of deliveries of material or equipment or other activities that may conflict with District's use of the building(s) or adjacent facilities. Contractor shall include all costs associated with such shut downs/interruptions within its bids.

1.11 STRUCTURAL INTEGRITY

- A. Contractor shall be responsible for and supervise each operation and work that could affect structural integrity of various building elements, both permanent and temporary.
- B. Contractor shall include structural connections and fastenings as indicated or required for complete performance of the Work.

PART 2 – PRODUCTS Not Used.

PART 3 – EXECUTION Not Used.

END OF DOCUMENT

**EAST SIDE UNION HIGH SCHOOL DISTRICT - TRACK AND FIELD RESURFACING PROJECTS
ADDENDUM 2**

SECTION 32 18 13 SYNTHETIC TURF (ADDENDUM 2)

PART 1 – GENERAL

1.1 SCOPE OF WORK

- A. The Contractor must provide all labor, materials, equipment, tools and taxes necessary for the complete installation of a new synthetic turf designed to provide the look, feel, safety, and performance of optimally maintained natural grass. The synthetic turf system(s) must consist of, but not necessarily be limited to, the following:
 - 1. Synthetic Turf: Low-friction, polyethylene-blended fibers, tufted to a permeable or perforated backing.
 - 2. A resilient infill system.
 - 3. Field striping and markings.
 - 4. Field logos.
 - 5. Complete installation of the synthetic turf system.
 - 6. Complete installation of shock/drain pad system
 - 7. Warranty
 - 8. Testing
 - 9. Maintenance equipment as outlined in this specification.
- B. The synthetic turf and its components must meet all NFHS and CIF requirements including markings and layouts.
- C. The Turf Installer if other than the primary Contractor must coordinate with the Owner's Representative and all other Contractors per specifications and as necessary to successfully install synthetic turf.

1.2 JOB CONDITIONS

- A. Prior to commencing work the contractor shall verify and satisfy themselves that the synthetic turf system including turf, infill, pad, fabric and base shall be compatible with one another and the system shall meet all requirements, including performance and safety, as outlined in this specification. If any submitted products are not compatible than the contractor shall submit written notification prior to submitting their bid.
- B. Within 10 days of notice to proceed the Contractor shall have completed the following:
 - a. Pothole the field to verify; location, depth and condition of the perimeter subdrain and the condition of the trench drain rock.
 - b. The Contractor shall be responsible to obtain 3rd party permeability testing of existing permeable base as indicated in section 1.3.
- C. The Contractor shall provide an initial flush and cleaning of all drain lines within the limits of work prior to installation.
- D. The Turf Installer must review and accept all synthetic turf base conditions, drainage repairs and grading prior to installation. Proceeding with turf installation by the Turf Install shall be considered a acceptance of the synthetic turf base, nailer and site conditions.
- E. The Turf Installer is responsible for maintaining required grades in all areas to receive the synthetic turf.
- F. The field aggregate base must not be contaminated with other soil or debris. Any stone contaminated by other soil will be removed and replaced at the Contractor's expense.
- G. All products and materials must be approved for use in the State of California.

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- H. The Contractor must protect the shock/drain pad as needed during installation of the synthetic turf.
- I. Verification of Quantities:
 - 1. Quantities shown on plans, sections and details are for Contractor's convenience only and all synthetic turf installation must be done in conformance with plans and in accordance with specifications.
 - 2. Discrepancies between such mentioned quantities and/or sections, and requirements of plans and/or specifications, will not entitle Contractor to additional enumeration.

1.3 Testing

- A. All testing must be performed by a 3rd party ISO 17025 certified laboratory.
- B. Testing of existing synthetic turf base system shall include:
 - 1. Contractor shall be responsible for (6) tests using ASTM F2898-11 - Standard Test Method Permeability of Synthetic Turf Sports Field Base Stone Non-confined Area Flood Test Method. Administer (2) tests 50 feet from the curb edge, approximately at the midfield line. Administer (4) tests directly over the subdrain approximately at the football 20 yard lines on each side.
 - 2. The Contractor must provide Head Injury Criterion (HIC) testing per ASTM F1292 and Gmax testing per ASTM F1936 upon completion.
 - 3. The Contractor must provide the necessary testing data to the Owner that the finished field meets or exceeds the required shock attenuation. G-max must not be less than 90 or more than 120 at time of project acceptance. The G-max range must be between 90 and 165 for the life of the warranty.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. The Contractor must coordinate the delivery and storage of materials with the Owner prior to shipping.
- B. Materials must be protected at the job site to insure that they do not become contaminated by other materials, vandalized or stolen.
- C. Materials must not be placed in such a way to obstruct any activities adjacent to the field or any paths of travel adjacent to the installation site.

1.5 SUBMITTALS

- A. All material and equipment submittals must comply with NFHS and CIF regulations.
- B. Re-submittals must reference the previous submittal transmittal number and must include responses to comments on the previous submittals; responses to comments must be summarized as well as identifying where in the re-submittal they are addressed.
- C. The Contractor must submit the following information as part of bid.
 - 1. A description of key installation methods, such as method of connecting the turf panels.
 - 2. Synthetic Turf Warranty (Copy).
 - 3. Manufacturer maintenance program details if applicable.
 - 4. Material data or product cut sheet(s) must be submitted with the following information:
 - a) Product name and description
 - b) Pile Height ASTM D5823-05A
 - c) Face Weight ASTM D5848-07
 - d) Total Weight ASTM D5848-07

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- e) Fiber Denier ASTM D1907-07
 - f) Grab Tear Strength ASTM D5034-09
 - g) Tuft Bind ASTM D1335-05
 - h) Machine Gauge ASTM D5793-05
 - i) Infiltration Rate BS7044 Method 4
 - j) Flammability ASTM D2859-06
 - k) Fiber manufacturer and product name
 - l) Primary Backing system type and weight
 - m) Secondary backing system type and weight
 - n) Pile height above infill
 - o) Color uniformity
 - p) UV inhibiting protection
 - q) Type of infill and material properties
 - r) Results of Lisport Test
- 5. Material data sheet for shock/drain pad system.
 - 6. Installation requirements and description of methods for shock/drain pad installation.
 - 7. Drain Pad Warranty (Copy).
- D. The Contractor must submit the following within 15 days of the Notice to Proceed date.
- 1. A 7½" x 12" minimum sample of the exact synthetic turf and infill system that is specified for this project.
 - 2. Turf samples/swatches (no-infill) for all colors required for the synthetic turf, this includes striping and logos. The swatches must be a minimum of 25 linear feet of fiber.
 - 3. Operation and Maintenance Manuals. Two (2) paper copies and an electronic copy of the initial Operation and Maintenance manual are to be submitted for approval. The manuals must be submitted in 3 ring binders with the Project Name, Vendor information, name, address, phone number and contact name, local representative contact information. The O/M must have an index with tabbed sections.
 - 4. Complete shop drawings and color samples for Owner review. Shop drawings must include:
 - a. To scale, color drawings of all text, logos, lines and markings.
 - b. Dimensions of all turf extents, text, logos, lines and markings.
 - c. Enlarged details of logos, text, line intersections and other markings.
 - d. Turf panel layout plan.

PART 2 – MATERIALS

2.1 SYNTHETIC TURF PRODUCTS

- A. The basis of design is ActGlobal XtremeTurf Premier Blend 2-3/8" dual fiber
- B. Comparable products include:
 - a. AstroTurf Rhino Blend, 2-1/4" dual fiber
 - b. FieldTurf Vertex Prime, 2-1/4" dual fiber

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2.2 The synthetic turf system including those in the basis of design and comparable alternatives must meet the following requirements:

1. Synthetic turf must be considered a premium dual fiber monofilament and slit film product.
2. Synthetic turf system must be designed to maintain integrity and visual aesthetic appeal for high, multisport use for a minimum duration of 8 years.
3. The polyethylene turf fibers must be manufactured using a C6 or C8 resin.
4. The synthetic turf pile height must be 2-1/4" unless specifically noted otherwise in base bid products.
5. The denier of the synthetic turf fiber must not be less than 10,000 per ASTM D1577.
6. G-max must not be less than 90 or more than 120 at time of project acceptance. The G-max range must be between 90 and 165 for the life of the warranty
7. At the time of the bid or at any time prior or during installation all products used must be free of patents rights infringements or trademark copyright infringements or intellectual property of others.

2.3 SYNTHETIC TURF INFILL

- A. The infill for the synthetic turf must consist of SBR and sand. The minimum infill weight must be 6.0 lbs/sf.
- B. SBR shall be a minimum of 50% cryogenic SBR used in accordance with turf manufacture requirements.
- C. The SBR infill must be minimum free of all metal, tire chords and other deleterious material. The rubber must be certified to have less than 50ppm of lead.
- D. Infill mix ration must be a minimum of 30% sand with remaining percentage SBR unless specifically noted otherwise. The final sand/SBR ratio shall meet the stability and Gmax requirements outlined in this specification and including he shock/drain pad and all finished comments.
- E. The infill materials must be mixed at a ratio and installed so that the field provides a firm and unyielding surface underfoot prior to substantial completion. If the surface is not deemed firm and unyielding by the Owner than the field must be remediated at the Contractors expense until the Owner is satisfied.
- F. All granulated rubber must be washed after processing and be certified to be 100% metal and fiber free; any other rubber will not be accepted. The rubber infill must be sized between the 10 - 20 sieve openings, unless otherwise specified by the turf Contractor as part of their proprietary system.
- G. Sand must be dust free, rounded silica sand; any other sand will not be accepted.
- H. The total depth of the initial infill must be no less than 3/4" below the top of the highest turf fiber.
- I. Field must be stable providing a wrinkle free finished surface at completion.

2.4 LINES/MARKINGS

- A. The Contractor must submit complete shop drawings and color samples for Owner review.
- B. Letters, numbers, logos, arrows, hash marks or other markings other than lines must be inlaid.
- C. Refer to plans for approximate size and color of field markings. The Owner reserves the right dictate changes to the size, location, quantity, font and color of all text, logos or markings during the submittal review process.

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- D. The Contractor must not purchase turf prior to full written acceptance of physical samples and shop drawings from the Owner.

2.5 SEAMS

- A. All seams between turf panels must be sewn and inlays may be glued.
- B. Sewing method shall be submitted to the Owner for review and approval.
- C. All seaming materials must be premium quality and compatible with the synthetic turf product.
- D. The Contractor shall protect the shock/drain pad where seams and inlays are glued; this may include plastic or other sheeting below all glued seams to prevent turf from binding to drain pad.

2.6 SHOCK/DRAIN PAD

- A. The bases of design is Schmitz Foam Products -ProPlay Sport20 (D) Ecosport 20 millimeter shock/drain pad.
- B. Comparable Products include:
 - a. Brock PowerBase YSR.

PART 3 – EXECUTION

3.1 INSTALLATION

- A. The Contractor shall remove the existing synthetic turf and infill and legally dispose of or recycle.
- B. The Contractor shall remove base material as necessary above the subdrain trench to expose clean base rock. If no clean drain rock is evident the Contractor shall remove base material to the spring-line of the subdrain pipe. Contractor shall backfill trench with 3/4" crushed stone drain rock flush to the top of base, compacting in 6" maximum lifts.
- C. The Contractor shall replace or shim the existing turf nailer board as necessary to provide the correct depth for the specified synthetic turf infill to be flush with the adjacent finished surface. The header/shim must be a solid unyielding plastic nailer for mechanically fastening the turf.
- D. The turf manufacturer and installer must accept the existing conditions prior to the installation of the synthetic turf system. The Contractor and turf installer shall perform a string line test to verify that the base surface meets planarity requirements and does not vary more than 1/8" over 10'.
- E. The Contractor and Turf Installer must maintain the stability, planarity, and grades of the (drain mat and aggregate base) during the entire synthetic turf installation process. The Turf Installer is responsible for the repair of the base surface should it become disturbed during the installation of the synthetic turf.
- F. The Turf Installer shall not begin installing turf until all the turf material has been delivered and accounted for onsite.
- G. The Turf Installer must strictly adhere to the installation procedures outlined under this section. Any variance from these requirements must be accepted in writing, by the manufacturer's onsite representative, and submitted to the Engineer and Owner's Representative, verifying that the changes do not in any way affect the warranty.
- H. The carpet rolls are to be installed directly over the drain pad.
- I. The synthetic turf must be delivered in 15' wide rolls with all white lines, soccer side lines and soccer end lines tufted into each roll. The rolls must be of sufficient length to extend across the playing field limits. Head seams, between the sideline rolls, will not be acceptable.
- J. The full width rolls must be laid out across the field. Utilizing standard attachment procedures each roll must be attached to the next in the manner as recommended by the manufacturer. When all of the rolls of the playing surface have been installed, the sideline areas must be installed at right angles to the playing field turf.

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- K. The turf must be securely attached to the nailer board. Synthetic turf must be mechanically fastened to the nailer board at a maximum spacing of 6 inches.
- L. The infill must be installed according to the manufacturer's recommendations. When the infill is placed to within 3/4" of the top of the synthetic grass fibers, the Turf Installer must notify the Owner's Representative for inspection. The balance of the infill must be placed in the presence of the Owner's Representative to a height or level determined by the Owner.
- M. The planarity of the infill must not vary more than 5mm when measured using a 3m straightedge. If the infill settles to a depth exceeding 10% of initial install within 2 years after completion the Contractor must install additional infill to a depth consistent with that during final completion.
- N. The Contractor must water settle the infill after installation.
- O. The Contractor must thoroughly clean the site after completion of the installation. This includes loose turf fiber, turf fragments, tools, debris, fasteners, glue and other foreign materials.
- P. It is the Contractor's responsibility to install turf and infill so that it provides a smooth transition between the field and adjacent surface. Lips, dips, gaps, or elevation differentials are not accepted at any field edge.
- Q. After completion of the synthetic turf installation the Contractor must drag the field with a magnet specifically designed to remove metal objects from synthetic turf fields. This procedure must be performed a minimum of two times.
- R. After completion of the synthetic turf installation the Contractor shall provide a final flush and cleaning of all drain lines within the limits of work.
- S. An alternate installation supervisor and crew is to be provided if for any reason the Owner is dissatisfied with the installation process.

3.2 MAINTENANCE, TESTING AND WARRANTY

A. Warranty

- 1. The Contractor must provide the following warranty:
 - a) The turf manufacturer must provide a warranty to the Owner that covers defects in materials and workmanship of the turf for a minimum period of eight years from the date of final completion. The turf manufacturer must verify that their onsite representative has inspected the installation and that the work conforms to the manufacturer's requirements.
 - b) The manufacturer's warranty must cover damage caused by general wear and damage caused from UV degradation.
 - c) The warranty must not have any qualifications or exclusions limiting total time of use, sport type specific use, athletic level (professional, recreational) use, or any other intended purpose limits.
 - d) The warranty may only specifically exclude vandalism, and acts of God beyond the control of the Owner or the Manufacturer which occur after final acceptance of installation and the start of the warranty period.
 - e) The warranty must cover defects in the installation workmanship, including the integrity of seams, straightness of lines and symmetrical layout of letter, numbers and logos.
 - f) The warranty must include remediation or replacement of the synthetic turf in its entirety if the HIC value exceeds 1000 or the Gmax exceeds 165 during the duration of the warranty.
 - g) All turf warranties must be non-prorated, must include all necessary materials, labor, transportation costs, etc. to complete said repairs.
 - h) The warranty must be prepaid and insured by an A rated, third party insurer.

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B. Repairs

1. In circumstances where field repairs are needed including failure to meet HIC tolerance, seam repair or infill repairs the Contractor must have qualified personnel and materials onsite and ready to make repairs within 24 hours of notification by the Owner during the regularly scheduled football season.
2. The Contractor must be onsite within 5 business days when outside of the regularly scheduled football season.

C. Extra Materials

1. Prior to final completion the Contractor must provide the following materials and equipment to the Owner. Copies of written documentation of delivery must be provided to the Owner.
2. Provide a separate piece of turf for each color used for the field, each piece of turf must be at least 15' x 15'.
3. Provide a minimum of (5) heavy duty 32 gallon containers and lids which are filled with the crumb rubber and sand mixed in accordance with the ratio used for this project.
4. Provide a minimum of 5 gallons of the glue which was used for inlays.

END OF SECTION

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SECTION 32 31 13 – CHAIN LINK FENCE

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. The Contractor must provide all labor, materials, equipment, tools and taxes necessary for the complete installation of a new chain link fence. Project requires removal of fence fabric and removal of loose paint or vinyl coating from rails and posts for preparation and application of paint.

1.2 JOB CONDITIONS

- A. The Fence Installer must review and accept all existing and improved site conditions, including existing fence connection conditions and grade prior to installation.
- B. All products and materials must be approved for use in the state of California.
- C. Verification of Quantities:
 - 1. Quantities and dimensions shown on plans, sections and details are for contractor's convenience only. Contractor is responsible for their own quantity take offs and must provide all materials necessary for installation of fence and gates as shown on Construction Documents.
 - 2. Discrepancies between such mentioned quantities and/or sections, and requirements of plans and/or specifications, will not entitle contractor to additional enumeration.

1.3 REFERENCES

- A. ASTM A392 Specification for Zinc-Coated Steel Chain-Link Fence Fabric
- B. ASTM A780 Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings
- C. ASTM F552 Standard Terminology Relating to Chain Link Fencing
- D. ASTM F567 Standard Practice for Installation of Chain Link Fence
- E. ASTM F626 Specification for Fence Fittings
- F. ASTM F900 Specification for Industrial and Commercial Swing Gates
- G. ASTM F1043 Specification for Strength and Protective Coatings of Steel Industrial Chain Link Fence Framework
- H. ASTM F1083 Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures
- I. Washoe County Orange book.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. The contractor must coordinate the delivery and storage of materials with the District prior to shipping.
- B. Materials must be protected at the job site to ensure that they do not become damaged by other materials, vandalized or stolen.
- C. Materials must not be placed in such a way to obstruct any activities adjacent to the field or any paths of travel adjacent to the installation site.

1.5 QUALITY ASSURANCE

- A. Use new materials and products, unless existing materials are products are specifically indicated in the Construction documents as salvage and repair.
- B. Utilize one manufacturer for all fencing products whenever possible.

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- C. All materials, hardware, assemblies and workman ship, including footings are subject to District's representative or inspectors review. Work not observed is subject to uncovering and if so required replacement.

1.6 QUALIFICATIONS

- A. The Fence Installer must have a minimum of five (5) years experience in the installation of chain link fence.
- B. The Contractor must provide an experienced site supervisor and crew. An alternate installation supervisor and crew is to be provided if for any reason the District's Representation is dissatisfied with the installation process.

1.7 SUBMITTALS

- C. Material specifications and cut sheets: Contractor must provide cut sheets for all gates, mesh, and hardware.
- D. Material Samples:
 - a. Chain link mesh with specified size, gauge, coating and color.
 - b. 6" section of railing with paint.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Vinyl fencing chain link fabric and wires:
 - 1. Single piece fabric widths required up to manufactures maximum standard production width.
 - 2. 9 ga. Steel wire x 3" mesh, coated with poly-vinyl chloride permanently fused bonded to galvanized wire by fusion method with breaking strength of 1200 lbs. 9 ga thickness is for core wire and does not include coating. Color to be black unless otherwise noted.
 - 3. Knuckled top and bottom selvage only. Twist or barb salvage is not acceptable at any location.
 - 4. Painted finishes on fabric are not acceptable. The color for this job is the manufacturer's standard black unless otherwise directed by the District.
- B. Line Posts, Gate Posts, End Posts, Top Rail and Bottom Rail
 - 1. SCH 40 steel Hot-Dipped Zinc-Coated (Galvanized)
 - 2. Apply one coat of primer and one coat of Dunn Edwards Premium Exterior paint for metal. Color shall be black unless otherwise stated.
 - 3. Color to match chain link fabric unless otherwise approved by District.
 - 4. All post and rail diameter are to be specified and supplied by Contractor supplied structural calculations and detail. Calculations are to be signed and sealed by Structural Professional Engineer registered in the state of California.
 - 5. Top and bottom rail must be Manufacturer's longest length.
- C. Gates
 - 1. Fabric to match fence
 - 2. Frames to be SCH 40 steel or approved equal
 - 3. Color to match chain link fabric unless otherwise approved by District.
 - 4. All frame pipe diameters are to be specified and supplied by Contractor supplied structural calculations and detail. Calculations are to be signed and sealed by Structural Professional Engineer registered in the state of California.

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5. Install diagonal bracing as required per Manufacturer's recommendations.
6. Install stretcher bars as required per Manufacturer's recommendations.
- D. Gate Hardware
 1. Repair or replace to match existing.
- E. Fittings and Accessories:
 1. Material:
 - a) Comply with ASTM F1043-00 for SS040 galvanized steel fence tubing.
 - b) Steel and Iron: Unless specified otherwise, hot-dip galvanized pressed steel or cast-iron fence fittings and accessories with at least 1.2 oz. Zinc per sq. ft. as determined by ASTM A-90.
 2. Finish
 - a) Apply one coat of primer and one coat of Dunn Edwards Premium Exterior paint for metal. Color shall be black unless otherwise stated.
 3. Post and Line Caps:
 - a) Provide weather tight closure cap for each post.
 - b) Provide line post caps with loop to receive tension wire or top rail.
 4. Post Brace Assembly:
 - a) Manufacturer's standard adjustable brace per Contractor provided shop drawings.
 5. Tension or Stretcher Bars:
 - a) Manufacturer's standard per Contractor provided shop drawings.
 6. Tension and Brace Bands:
 - a) Manufacturer's standard per Contractor provided shop drawings.
 7. Tension Wires:
 - a) 9 gage minimum
 - b) Manufacturer's standard per Contractor provided shop drawings.
 8. Tie Wires:
 - a) Manufacturer's standard per Contractor provided shop drawings.
 9. Concrete Footings

2.2 VINYL COATING

1. Colors shall be stabilized, and shall have a light fastness to withstand a minimum Weather-O-Meter exposure of at least 1500 hours without deterioration when tested in accordance with ASTM D 1499.
2. Vinyl coating shall be exposure-resistant to dilute solutions of most common mineral acids, sea water, salts, and alkali.
3. Vinyl coating shall be continuously bonded to the wire before the wire is woven into fabric.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Coordinate all post locations with onsite utilities existing and proposed including landscape irrigation mainlines and laterals prior to installation.

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- B. Report conflicts between post locations and any other on site utility or features to District immediately.

3.2 INSTALLATION

- A. Install framework, fabric, accessories, and gates in accordance with best trade practice for sports field / recreational installations.
- B. Make welds neat and secure, grind off excess exposed metal.
- C. Securely set posts plumb in alignment at proper depth and height.
- D. Install rigid bracing where required for stable, secure fence.
- E. Install fabric under tension and securely tie to posts, rails and braces.
- F. Gates must move freely without sag.
- G. Space line posts at intervals not exceeding 10 feet.
- H. Slope top of concrete footings for water runoff.
- I. Brace each gate and corner post back to adjacent line post with horizontal center brace rail and diagonal truss rods. Install brace rail, one bay from end and gate posts.
- J. Install center and bottom brace rail on corner and gate leaves.
- K. Position bottom of fabric $\frac{1}{2}$ " above finished grade.
- L. Install fabric on the ballfield interior side of posts.
- M. Fasten fabric to top rail, line posts, braces, and bottom tension wire with 11-AWG galvanized wire ties 24 inches (610 mm) maximum on centers.
- N. Attach fabric to end, corner, and gateposts with tension bars and tension bar clips.
- O. Install bottom rail supported at each line and terminal post in such a manner that a continuous brace between posts is formed.
- P. Install gate fabric to match fence.
- Q. Install tie wires with one tight turn to hold fabric firmly to frame, bend ends of wire inward to avoid person or clothing snag points.
- R. Install fasteners, nuts for tension bands and hardware bolts on the side of the fence opposite fabric side. Spoil ends of bolts to prevent removal of nuts.

END OF SECTION