



Addendum No.: 4

Date Of Addendum: March 9, 2021

CT DAS ● Construction Services ● Office of Legal Affairs, Policy, and Procurement

Ella T. Grasso Technical High School  
189 Fort Hill Road  
Groton, Connecticut  
Project BI-RT-877A  
BI-RT-877A, OSCGR PROJECT NO: 900-0014

Original Bid Due Date / Time:

March 17, 2021

1:00 PM

Previous Addendums: Addendum #3 dated 3/1/2021, Addendum #2 dated 2/24/2021/ Addendum 1 dated 2/17/2021

**TO: Prospective Bid Proposers:**

This Addendum forms part of the "Contract Documents" and modifies or clarifies the original "Contract Documents" for this Project dated December 01, 2020. Prospective Bid Proposers shall acknowledge receipt of the total number the Addenda issued for this Project on the space provided on Section 00 41 00 Bid Proposal Form.

**Failure to acknowledge receipt of the total number the Addenda issued for this Project on the space provided on Section 00 41 00 Bid Proposal Form shall subject Bid Proposers to disqualification.**

The following clarifications are applicable to drawings and specifications for the project referenced above.

**ITEM 1:** Please confirm items 2.7, 2.8, 2.9 in specification section 116833 Athletic field equipment should be a part of the supplemental bid.

RESPONSE (1): **Yes, that is correct. The identified items are for the supplemental bid.**

**ITEM 2:** Section 116835 Track and Field Equipment have no manufacturers listed. Is the intent for contractors to purchase this material through one of the various track and field suppliers on the internet?

RESPONSE (2): **In lieu of listed manufacturers, a performance standard for the fixed and non-fixed track and field equipment has been provided in the Contract Documents. Per Section 116835 Track and Field Equipment, Part 1.3, all equipment and materials shall meet or exceed the CIAC, NFHS and ASBA rules and regulations.**

**ITEM 3:** Please reference drawing L.1 – The last note on the drawing calls for tree protection fence. It is unclear where tree protection fence is to be installed. The construction limit line appears to cover the tree protection line. Please advise.

RESPONSE (3): **Plant protection fencing is required for all existing plantings located along the west edge of the work limit line, and north end of the fields access drive. Some sections of this protection fencing may be temporarily removed to install utility connections through the existing plant beds, as indicated on the plans."**

**ITEM 4:** Drawing L2.1 / 2.2 – these drawings show multiple areas that receive a typical stone wedge. The geotech report details show a perforated footing drain under the stone wedge. The drainage drawings do not show this pipe. Does the stone wedge receive a drainage pipe under the entire length and wear does it tie into?

RESPONSE (4): **Yes, the stone wedge drainage piping is continuous for the entire length. For clarity purposes the piping is not shown. There are 7 locations identified on drawings C2.0 & C2.1 providing the stone wedge underdrain tie in locations.**

**ITEM 5:** Drawing L2.2 – This drawing has a pink area that is circled that receives additional stone. The detail in the Geotech shows an underdrain at this area. However nothing is shown on the drainage drawings. Is there a pipe under this stone section and where does it tie into?

RESPONSE (5): **There is no underdrain for the pink area. This area drains to the underdrain in the adjacent eastern stone wedge.**



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**ITEM 6:** Drawing C4.3 shows a typical bituminous swale. This detail shows a drain pipe under the swale. However this is not shown on the drainage drawings. Is there a pipe under the bituminous swale and where does it connect to?

RESPONSE (6): **Yes-The pipe is continuous under the swale up to the yard drain connection. Only a small section of the drain pipe is shown on the drawings for clarity purposes. There are 2 locations on C2.0 & C2.1 where the inverts are provided for this pipe where they connect to proposed yard drains.**

**ITEM 7:** Is the water quality swale on L5.3 the area that is schedule to receive the basin wet mix on L4.3?

RESPONSE (7): **The legend on sheet L4.1 illustrates the symbol for Basin Wet Mix. The detail call out on sheet L4.2 points to the area with the Basin Wet Mix symbol, and refers to detail 3 on sheet L5.3, which indicates that Basin Wet Mix is used on the water quality swale.**

**ITEM 8:** Detail 3 on L6.1 says to reference S1.01 for subgrade preparation. This sheet doesn't specify how much compacted fill is required for under the 3/8th stone on detail 3. Please advise.

RESPONSE (8): **Controlled fill is required to the depth needed to meet natural undisturbed soil As an Unclassified Site, quantification is not typically provided in design documents.**

**ITEM 9:** Please confirm the "Security Contractor" referenced in the documents for card readers is not a part of this contract? There doesn't appear to be any security specifications.

RESPONSE (9): **Confirmed. The Owner will hire the security contractor directly. You must include the wiring path components-conduits, boxes, etc. as indicated in the Drawings and Specs.**

**ITEM 10:** Please reference spec section 007213 section 4.9. This section calls for a full time project manager that is to be located on site. Please confirm this project will require a full time on site project manager.

RESPONSE (10): **The project manager need not be onsite full time. He/she must be onsite the days of job meetings and as required by the Owner.**

**ITEM 11:** Please reference section 012000 Contract considerations. The table on page 5 – 6 has multiple items detailed on it. It appears the adds and deducts are already established in the table. There do not appear to be any quantities under the allowance heading. Do contractors need to include any of these items in our bid or are these allowances what contractors will be paid if they are encountered in the field?

RESPONSE (11): **In the cases where there are no quantities listed, the "add" and "deduct" unit prices will be utilized to calculate the cost of change orders where the scope of work of the project is materially increased or reduced by the Owner.**

**ITEM 12:** The table on page 6 – 6 has multiple items in it but it is unclear what allowances need to be included in contractor bids. Is the intent for contractors to include each line item 2.1 – 4.1 in their bid and are contractors to multiply the allowance quantity by the add column (Example – 2.1 H-20 pull box 4 x 1500 = \$6,000)? Please clarify what values should be included in contractor bids.

RESPONSE (12): **Where an allowance quantity is called out, bidders should carry the quantity listed at the deduct unit price in their bid and on the schedule of values. In the event that the quantity is unused or partially used, a credit change order will be issued to the Owner at the close out of the job.**

**ITEM 13:** Please reference Spec section 01.32.16.13 section 1.4B. This states that Primavera scheduling software is required. Will Microsoft Project be considered an appropriate scheduling software in lieu of Primavera?

RESPONSE (13): **No.**



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**ITEM 14:** Please reference Spec Section 01.35.26 Govt Safety Requirements. Please confirm the intent is to have a level 6 full time certified safety professional on the site full time

RESPONSE (14): **Level 6 is not required, minimum level is level 3.**

**ITEM 15:** Section 1.6 paragraph 1 states the QC person can be the SSHO on this project. However, the level 6 certified safety professional states that the CSP "shall have no other duties other than safety". Please confirm if a level 6 CSP is required then this person cannot be the QC person

RESPONSE (15): **See the answer to RESPONSE (15):**

**ITEM 16:** Is the Associate safety professional identified in paragraph D in addition to the full time site safety officer?

RESPONSE (16): **Only an SSHO is required.**

**ITEM 17:** Section 01.45.00 Quality control states that testing will be paid for by the owner through the CA. At the pre-bid it was mentioned that contractors would have to pay for testing for certain field items. Will contractors be responsible for any testing in addition to the testing done by the CA and if so where can that list be found?

RESPONSE (17): **The contractor is responsible for the additional testing, as is required for the synthetic turf field per Specification Section 321823 Synthetic Field Surfacing, Part 1.7.**

**ITEM 18:** Is a temporary construction fence required to enclose the site?

RESPONSE (18): **This question was already asked and answered in Addendum #2. The supplemental bid has temporary construction fencing, refer to the note on SB-1 C1.2 Site Preparation and Demolition Plan, "Install temporary chain link fence and provide associated gates where necessary (Typ.)". The base bid upper field has no temporary fencing required.**

**ITEM 19:** Plan sheet SB-1 C4.0 calls for Rail and Chain link Fence Padding. Can you provide a spec for the padding and confirm the limits of where this starts and stops?

RESPONSE (19): **This reference is referring to the fence cap-there is no padding applied to the fencing. Please refer to spec section 11 68 33 Article 2.9, Cap. The fence cap runs from the 1st base side dugout around entire out field to the 3rd base dugout. Include all fastening items per the manufacturer's recommendations.**

**ITEM 20:** Plan Sheet SB1 C4.1 has a detail for split rail fence that notes that materials are to be Black Locust. Typically, only the posts are black locust, while the rails are assorted hardwoods. Can the rails be provide in northern white cedar?

RESPONSE (20): **No. Provide black locust for the rails.**

**ITEM 21:** Plan sheet SB-1 C4.0 does not detail the height of the fence between the backstop and the dugouts. Please provide this height.

RESPONSE (21): **8'-0" high fencing shall continue from all dugouts to the backstops for both fields.**

**ITEM 22:** The plan details for the backstops on SB-1 C4.0 are not consistent the specifications 32 31 14. Which should we follow for bidding purposes, The spec or the plans?

RESPONSE (22): **Follow the specifications.**



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**ITEM 23:** The plans for the lower fields provide a detail on SB-1 C4.0 for warning track at 4" thick "stone dust", this does not show geotextile or subbase, This conflicts with the spec section 32 18 21 that calls for 4" of subbase, geotextile and 3" of stone dust after compaction. Please verify which we are to use for bidding. The plan detail or the specs?

**RESPONSE (23): Refer to provided SK SB-1 C4.0-1 to replace "Warning Track Section" on Drawing SB-1 C4.0 as part of this addendum.**

**ITEM 24:** Please provide infield mix supplies that are approved for this project. (IE: read custom soils, Beam custom soils or local suppliers that are acceptable).

**RESPONSE (24): Specification Section 32 18 21 "Specialty Sport Soils" ADD 2.0 Qualified Manufactures. A. Basis-of-Design Products: The basis-of-design for the baseball/softball field surfacing specified herein is DuraEdge Products, Inc. Grove City, PA (866) 867-0052. Subject to compliance with requirements, provide named products or comparable products by New Enterprise Stone & Lime Co., Inc. (Diamond-Tex) or Partac Peat Corporation (Beam Clay).**

**ITEM 25:** Please confirm the depth of the sand layer under the skinned infields.

**RESPONSE (25): Refer to provided SK SB-1 C4.1-1 "Infield Skin Section" sketch to Drawing SB-1 C4.1., transmitted with this Addendum Four.**

**ITEM 26:** Please confirm if the sand layer extends under the warning track.

**RESPONSE (26): Refer to provided SK SB-1 C4.0-1 to replace "Warning Track Section" on Drawing SB-1 C4.0., transmitted with this Addendum Four.**

**ITEM 27:** Please provide a detail for the skinned infield makeup.

**RESPONSE (27): Refer to SK SB-1 C4.1-1 "Infield Skin Section" sketch transmitted with this Addendum Four**

**ITEM 28:** The concrete sidewalk enlargement shows detectable warning pavers along the South & West sides of the field house. The site plan shows neither detectable warning pavers nor a concrete sidewalk along the West side of the building. Please advise as to where the detectable pavers should be located as well as what the layout for concrete sidewalk around the field house is.

**RESPONSE (28): REPLACE the "Concrete Walk Enlargement", detail 1 on drawing C2.0 with sketch SK SB-1 C2.0-1 included in this addendum.**

**ITEM 29:** The photometric plan depicts a football field @ 360' x 160', while the turf layout depicts a soccer field at 330' x 200'. The photometric plan ignores 14,400 sq. feet of playing area. Per industry standard, there should be 84 target points, utilizing a 30' x 30' grid. It's also typical to specify a uniformity ratio.

**RESPONSE (29): The lighting design is based on IES recommendations for Class 2 football field lighting and meets these recommendations with an average fc level of 51, max/min of 1.19, and CV of 0.05. The IES recommendations for Class 2 soccer field lighting are vastly different in that the average fc level is 100 as opposed to 50 so you are effectively comparing apples to oranges. Having said that, however, the lighting will be adequate for the Owners purposes. The calculation was done utilizing a 30' by 30' grid as indicated on the drawings and the uniformity ratio is also indicated on the drawings.**

**ITEM 30:** The sports lighting pole drawing calls out a building code of AASHTO and 120 MPH. Current CT code is IBC and 140 MPH.

**RESPONSE (30): The 140 mph wind speed you cite is incorrect. The wind speed and design criteria will be changed by Addendum to 130 mph and IBC respectively.**



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**ITEM 31:** The spec calls out “concrete encased galvanized steel poles”, while the drawings depict pour in place anchor bolt foundations.

**RESPONSE (31): Poured in place anchor bolt foundations are required as indicated on the drawings. The words “concrete encased” will be deleted from the specifications by Addendum.**

**ITEM 32:** With only a 10 year warranty, the owner will be responsible for future outages. The basis of design depicts all electronic components atop the pole. Another approach is to remote the electronic drivers, surge protection etc.... to 10’ above grade, in order to access from a step ladder. Envision a crane crossing the field, time and again, to repair an outage caused by a fuse or driver. Perhaps an alternate for remote drivers?

**RESPONSE (32): The 10 year warranty is adequate and if the Owner wishes they can add additional warranty at the end of the 10 year period. The drivers are covered under the warranty and each fixture is individually protected by a fuse located in a pole mounted fuse box 10’ above grade and accessible from a ladder.**

**ITEM 33:** Is there a lighting plan for emergency egress from the bleachers?

**RESPONSE (33): No.**

**ITEM 34:** Worth noting, the “wireless controls” package simply blacks out the fixtures and they are never turned OFF. If the communication link fails, the default is for all the lights to turn ON, no matter what time of day/night. So, constant energy consumption and the lights could turn on by themselves, anytime.

**RESPONSE (34): The specified control system does not operate in this manner.**

**ITEM 35:** It’s now typical for LED installations to have pre-programmed light shows, to add to the fan and player experience. There is no cost for manufacturing, just some additional low voltage wiring.

**RESPONSE (35): The pre-programmed light show function is not required.**

**ITEM 36:** Aiming angles of 22 degrees do not meet IESNA recommendations and will create extreme glare. Also, at 22 degrees, the external visors are rendered useless.

**RESPONSE (36): The minimum aiming angle should be 21 degrees below horizontal. The design aiming angles range from 23 degrees at midfield to 41 degrees at the sideline. The aiming angle is dictated by the pole height and site constraints including the nearby Groton Airport.**

**ITEM 37:** The (2) home side poles are blocking site lines from the bleachers

**RESPONSE (37): The two (2) bleacher side poles do not block the site lines to the football field.**

**ITEM 38:** Pole P3 is located on a 1” Type “K” copper water line.

**RESPONSE (38): The water line was shifted by SK in Addendum 3.**

**ITEM 39:** Section 051200 calls for the structural steel fabricator to be AISC certified. Given that steel is limited to a few lintels associated with the main building (with the exception of bleachers by the bleacher vendor) can the certified AISC fabricator be waived?

**RESPONSE (39): AISC certification can be waived.**



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**ITEM 40:** Is there a soils report for the supplemental bid? There appears to be a report by ATC for the field but it does not reference the baseball fields. Please advise.

**RESPONSE (40):** **Geotechnical information for the supplemental bid/lower ballfields is contained within the plans and specs. The regulated/polluted soils report by ATC is limited to the base bid area at the upper track and field.**

**ITEM 41:** Is there any additional information to help contractors identify how much rock is at the site? The largest area of cut is between borings B61 and B62. The distance between these borings is 161' and the depth of auger refusal is a 10' difference over this span. Should contractors assume that between these borings the rock is at an average elevation of 8' below grade? If not can an allowance be established as there does not appear to be enough information to accurately know what the rock is doing based on the borings provided.

**RESPONSE (41):** **In addition to the borings provided in the Volume 1 drawings and geotechnical report, Volume 2 contains historic boring information for the project site. See sheets L6-L11 in Volume 2 for additional historic boring information. This project is an unclassified site. The Contractor should make any assumptions necessary to perform the work proposed in the bid documents. Bidders are allowed and encouraged to make any additional subsurface investigations. All investigative work should be coordinated and scheduled with the Construction Administrator, Arcadis.**

**ITEM 42:** There is no boring data between boring B61 and the new proposed road north of the field. Should contractors assume there is no rock blasting required in the area from the center of the football field to the new road?

**RESPONSE (42):** **In addition to the borings provided in the Volume 1 drawings and geotechnical report, Volume 2 contains historic boring information for the project site. See sheets L6-L11 in Volume 2 for additional historic boring information. The project has an unclassified site. The Contractor should make any assumptions necessary to perform the work proposed in the bid documents. Bidders are allowed and encouraged to make any additional subsurface investigations. All investigative work should be coordinated and scheduled with the Construction Administrator, Arcadis.**

**ITEM 43:** The area behind the new cast in place parking retaining wall has no boring information. This area has a substantial cut in the area. Should contractors assume any rock in the area between the parking retaining wall and boring B-77?

**RESPONSE (43):** **In addition to the borings provided in the Volume 1 drawings and geotechnical report, Volume 2 contains historic boring information for the project site. See sheets L6-L11 in Volume 2 for additional historic boring information. The project has an unclassified site. The Contractor should make any assumptions necessary to perform the work proposed in the bid documents. Bidders are allowed and encouraged to make any additional subsurface investigations during the preparation of their bid. All investigative work should be coordinated and scheduled with the Construction Administrator, Arcadis.**

**ITEM 44:** Plan Sheet SE2.2 provides a detail for the sports lighting foundation. These foundations will be installed within solid rock. The dimensions of the foundation shown on the plans are different from the foundation size and depths being recommended by the sport lighting manufacturers. Please confirm that it is understood that the actual foundation width and depth will be designed by an engineer licensed in the State of CT and that the engineered drawings which will be used for construction may vary dimensionally from those on the bid documents and that there will be no cost adjustments for any change in size between the engineered drawings and the detail on plan sheet SE2.2.

**RESPONSE (44):** **It is confirmed that the installed foundation dimensions shall be designed by a Structural Engineer licensed in the State of Connecticut and that the approved engineered drawings which will be used for construction may vary dimensionally from those on the bid documents and that there will be no cost adjustment for any change in size between the approved engineered drawings and the detail on drawing SE2.2. Please note – an augured drilled and reinforced poured in place concrete foundation with anchor bolts is required. Spread foundations will not be approved and poles with direct bury precast or concrete encased type bases will not be approved.**



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**ITEM 45:** We are unable to locate a supplier of the specified "New England Crimson Red Stone Dust" Warning Track material. Please provide a vendor that can supply the specified material.

RESPONSE (45): **Contact information for a known supplier:**

**Greg Frederick**

**gfrederick@duraedge.com**

**(724) 870-4480**

**Subject to compliance with requirements, provide named products or comparable products by New Enterprise Stone & Lime Co., Inc. (Diamond-Tex) or Partac Peat Corporation (Beam Clay).**

**ITEM 46:** Drawing Reference Change Identified:

**L6.1 – Note 2 – DELETE reference to Sheet S1.0.1 and REPLACE with Sheet S1.02.**

**ITEM 47:** Drawing Reference Change Identified:

**L6.4 – Note 1 – DELETE reference to Sheet S1.0.1 and REPLACE with Sheet S1.02**

**ITEM 48:** Make required text change:

**REPLACE note 14 on drawing SB-1 C1.5 “Mitigation Planting Notes” with the following: CONTRACTOR SHALL TRANSPLANT PASPALUM IN SEQUENCE OF PRIORITY WITH EACH LOCATION SHOWN IN THE DRAWING BELOW (#1 BEING FIRST AND #2 BEING LAST). ONCE PASPALUM PLANTS HAVE BEEN TRANSPLANTED, THE CONTRACTOR SHALL PLACE TEMPORARY ORANGE CONSTRUCTION FENCING AROUND THE NEW LOCATIONS UNTIL THE FULL SPLIT RAIL AND/OR TIMBER GUARD RAIL EXTENTS ARE INSTALLED.**

**ITEM 49:** Drawing Sheet noted as omitted in error from Bid Documents

**INSERT Sheet SB1-C1.0, Storm Water Pollution and Control Plan (SWPCP) transmitted with this Addendum Four**

**ITEM 50:** **ADD** the additional gate to drawing C2.0 as shown in sketch **SK SB-1 C2.0-2** transmitted with this Addendum Four.

**ITEM 51:** **REPLACE** the Legend on drawing SB-1 C1.4 with the legend provided in **SK SB-1 C1.4-1** transmitted with this Addendum Four.

**ITEM 52:** **REPLACE** the Legend on drawing SB-1 C1.5 with the legend provided in **SK SB-1 C1.5-1** transmitted with this Addendum Four.

**ITEM 53:** Specification Text change to **Section 01 35 26, 1.6,**

**DELETE paragraph, “D” and the requirement for an ASP, STS, and CHST.**



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- ITEM 54:** Specification Text Changes to **Section 321823 Synthetic Field Surfacing**,
- Part 1.2 A.– Please Delete and Replace with the following:** “Furnish all labor, equipment and materials necessary to construct a permeable stone base, shock absorbing pad, and dual fiber synthetic turf surfacing system with acrylic coated sand or engineered wood particle and sand infills, including all tufted and/or inlaid sports field lining and marking as specified and indicated on the Drawings.”
- Part 1.2 C. 2. – Please ADD the following at the end of sentence:** “or engineered wood particle and sand infill.”
- Part 2.1 A. - Please ADD the following at the end of first sentence:** “or infilled with an engineered wood particle and sand infill.”
- Part 2.3 A. 4 - Please ADD the following at the end of sentence:** “or engineered wood particle and sand infill.”
- Part 2.8 B – In addition to uniform quartz sand pigmented and sealed with an acrylic polymer infill system, please include infill system consisting of engineered word particle and quartz sand.**
- ITEM 55:** Specification Text Change to **Section 26 56 19**,
- Part 2.1, A, 1: Change the first sentence of the paragraph to read as follows:**  
“1. The pole foundations shall be designed for allowable stresses in accordance with the 2018 Connecticut State Building Code.”
- ITEM 56:** Specification Text Change to **Section 26 56 19**,
- Part 2.1, B, 6: Delete the words “concrete encased” from the second sentence of the paragraph.**
- ITEM 57:** Specification Text Change to **Section 26 56 19**,
- Part 3.5, A: Change the paragraph to read as follows:**  
“A. The Sports Lighting Supplier and the Contractor shall Return to the site after the site tests are complete to make final fixture aiming adjustments to eliminate apparent hot spots, dark spots, and glare as determined by the Engineer and Owner. The day and time of the site visit to make the aiming adjustments shall be as directed by the Owner. The Contractor shall provide all required equipment and labor to make the aiming adjustments.”
- ITEM 58:** Drawing Text Change
- Drawing SE2.2: At the Sports Lighting Standard Pole Detail – Type SD, change the Material Specifications selections as follows:**  
**Change the Wind Speed selection from 120 MPH to 130 MPH.**
- ITEM 59:** Change the Design Criteria selection from AASHTO LTS6 to IBC.
- ITEM 60:** Specification Text Change to Section 32 18 23, Part 2, PRODUCTS  
**DELETE references to “Resilient Polypropylene Shock-Absorbing Pad”.**  
**REPLACE text with, “Resilient Shock Absorbing Base Pad.”**
- ITEM 61:** Substitution Request determination for the Artificial Turf Assembly: Schmitz ProPlay Pad  
**Based on the information provided, Gale takes NO EXCEPTION to Schmitz ProPlay pad system being used as a substitute for the synthetic turf field’s pad underlayment. The information provided included a list of similar projects and performance testing of pad for similar synthetic turf systems and meets the performance requirements within the Specification Section 321823 Synthetic Field Surfacing.**





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**ITEM 62:** Substitution Request determination for Brock SP17 Pad

**Based on the information provided, Gale takes NO EXCEPTION Brock's SP17 pad system being used as a substitute for the synthetic turf field's pad underlayment. The information provided included a list of similar projects and performance testing of pad for similar synthetic turf systems and meets the performance requirements within the Specification Section 321823 Synthetic Field Surfacing.**

**ITEM 63:** Substitution Request determination for BrockFill

**Based on the information provided, Gale takes NO EXCEPTION to BrockFill infill being used as a substitute for the synthetic turf field's infill material. The information provided included a list of similar projects and performance testing of infill for similar synthetic turf systems**

**ITEM 64:** Substitution Request determination for Brock SP Powerbase.

**The Substitution Request has been evaluated and the product has been determined to be not comparable. Based on the information provided, it appears that the pad does not meet the GMax and HIC requirements for the specified turf system and this proposed Substitution is therefore, NOT APPROVED.**

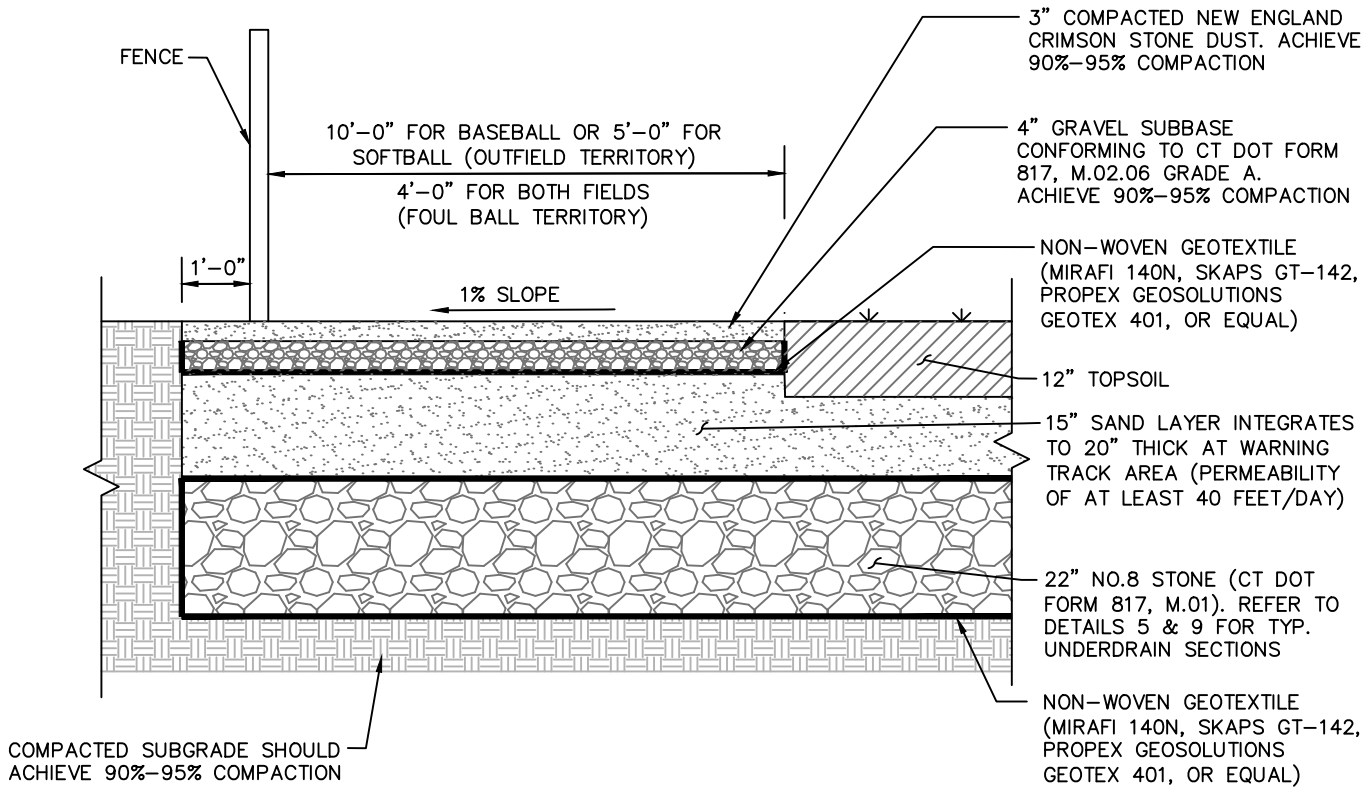
All questions must be **emailed** (not **verbal** or by **phone**) to the consulting Architect/Engineer: Richard Brown, AIA, Principal, Moser Pilon Nelson Architects, Email: [rbrown@mpn-arch.com](mailto:rbrown@mpn-arch.com) with copies sent to the DAS/CS Project Manager (Dennis G. Tovey, PE, Email: [Dennis.Tovey@ct.gov](mailto:Dennis.Tovey@ct.gov)) Construction Administrator, Arcadis U.S., Inc.: Brian Oblon, Email: [Brian.Oblon@arcadis-us.com](mailto:Brian.Oblon@arcadis-us.com)

**End of Addendum 4**

*Mellanee Walton*

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**Mellanee Walton, Associate Fiscal Administrative Officer  
State of Connecticut  
Department of Administrative Services, Construction Services  
Office of Legal Affairs, Policy, and Procurement  
450 Columbus Boulevard, Suite 1302  
Hartford, CT 06103**



**WARNING TRACK SECTION**  
N.T.S.

NOTES:  
 -6" PVC PERFORATED PIPE IS NOT SHOWN FOR CLARITY. SEE DWG SB-1 C3.0 AND DETAILS 5 AND 9 ON SB-1 C4.1 FOR TYPICAL BASEBALL/SOFTBALL UNDERDRAIN SECTIONS.  
 -REFER TO SPECIFICATION 321821 "SPECIALTY SPORTS SOILS" FOR ADDITIONAL INFORMATION.



DAS/DCS project no. BI-RT-877A      OSCGR project no. 900-0014  
 PROJECT TITLE

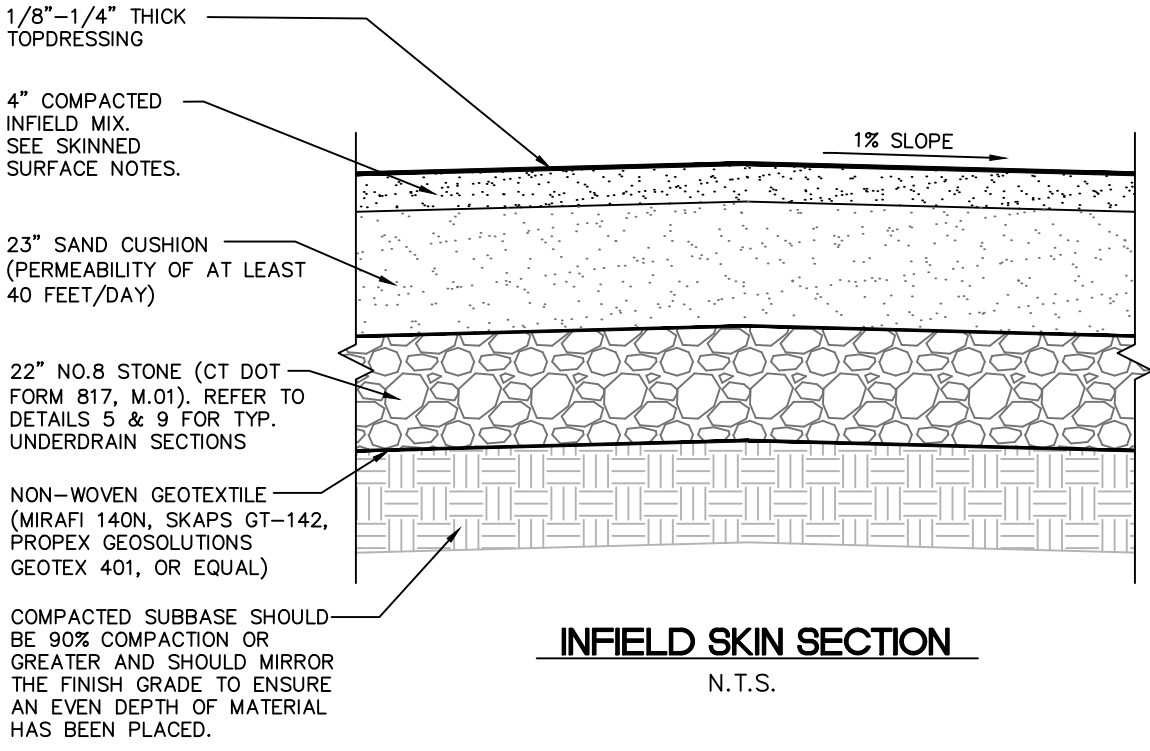
**ATHLETIC FIELD CONSTRUCTION**  
**GRASSO TECHNICAL HIGH SCHOOL**

SKETCH TITLE  
**WARNING TRACK SECTION**

DATE 03/04/2021

SCALE: N.T.S.

PROJECT NO.:  
SK SB-1 C4.0-1



**SKINNED SURFACE NOTES:**

- PLACE PRODUCT IN 2" TO 3" LIFTS.
- SCARIFY THE SURFACE BETWEEN LIFTS TO FACILITATE BONDING OF THE NEXT LIFT. REPEAT UNTIL FINISH GRADE ELEVATION IS MET.
- ACHIEVE 85% TO 90% COMPACTION BASED ON STANDARD PROCTOR TEST (ASTM D 689–07).
- 1% SLOPE ON FINAL GRADE.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFO.

**NOTES:**

- 6" PVC PERFORATED PIPE IS NOT SHOWN FOR CLARITY. SEE DWG SB-1 C3.0 AND DETAILS 5 AND 9 ON SB-1 C4.1 FOR TYPICAL BASEBALL/SOFTBALL UNDERDRAIN SECTIONS.
- REFER TO SPECIFICATION 321821 "SPECIALTY SPORTS SOILS" FOR ADDITIONAL INFORMATION.



**DAS/DCS project no. BI-RT-877A      OSCGR project no. 900-0014**

**PROJECT TITLE**

**ATHLETIC FIELD CONSTRUCTION  
GRASSO TECHNICAL HIGH SCHOOL**

**SKETCH TITLE**

**INFIELD SKIN SECTION**

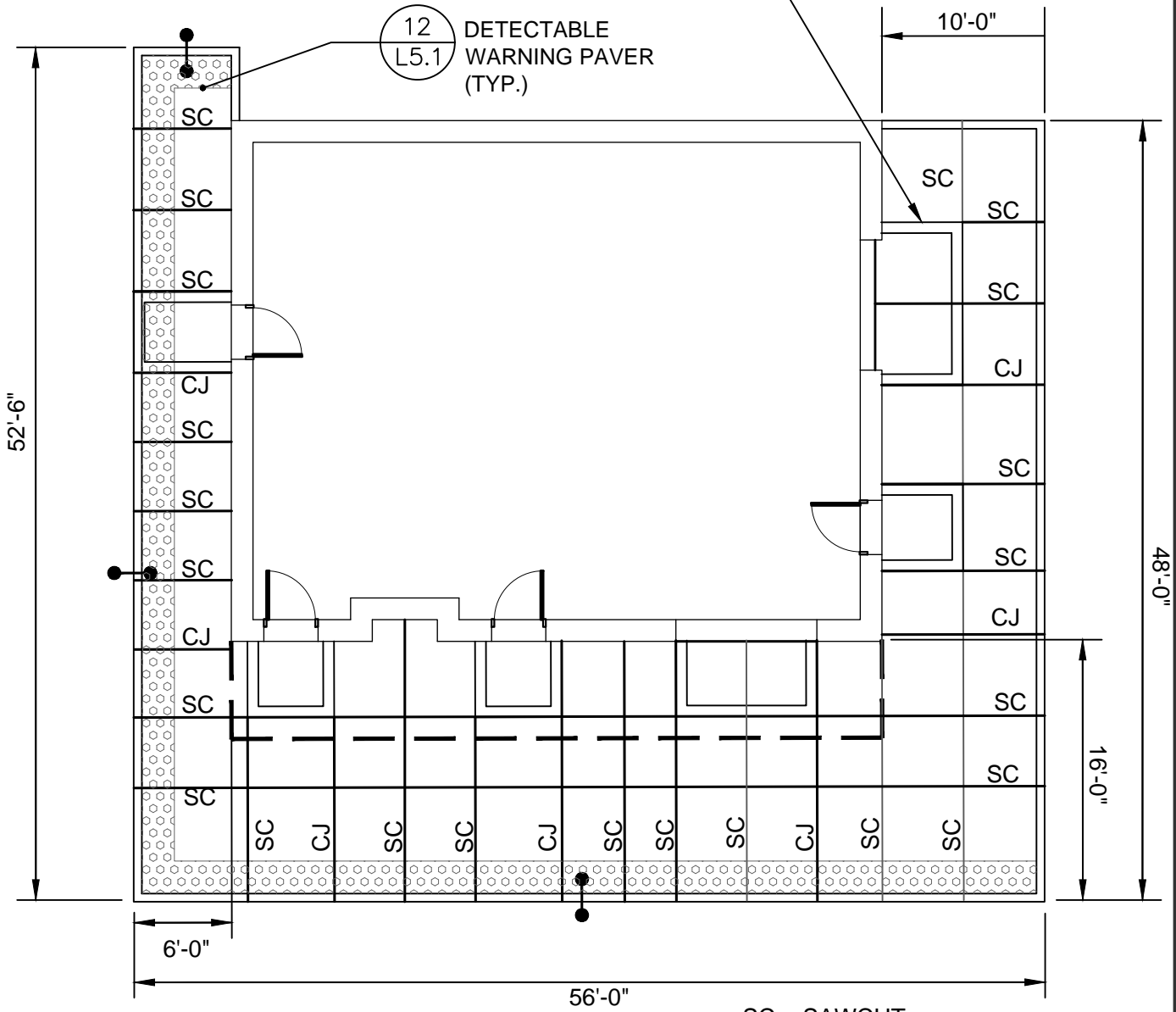
**DATE 03/04/2021**

**SCALE: N.T.S.**

**PROJECT NO.:**

**SK SB-1 C4.1-1**

SEE DWG S1.02 FOR  
TYPICAL CONC.  
HAUNCH SLAB DETAIL



52'-6"

6'-0"

56'-0"

10'-0"

48'-0"

16'-0"

NOTE:  
SEE DETAILS 5 AND 6 ON  
DWG L5.1 FOR TYPICAL JOINT

SC = SAWCUT  
CJ = CONSTRUCTION JOINT

1  
SB2.0

**CONCRETE SIDEWALK ENLARGEMENT**

N.T.S.

DAS/DCS project no. BI-RT-877A      OSCGR project no. 900-0014

PROJECT TITLE

**ATHLETIC FIELD CONSTRUCTION  
GRASSO TECHNICAL HIGH SCHOOL**

SKETCH TITLE

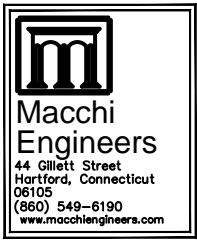
**CONCRETE SIDEWALK ENLARGEMENT**

DATE 03/04/2021

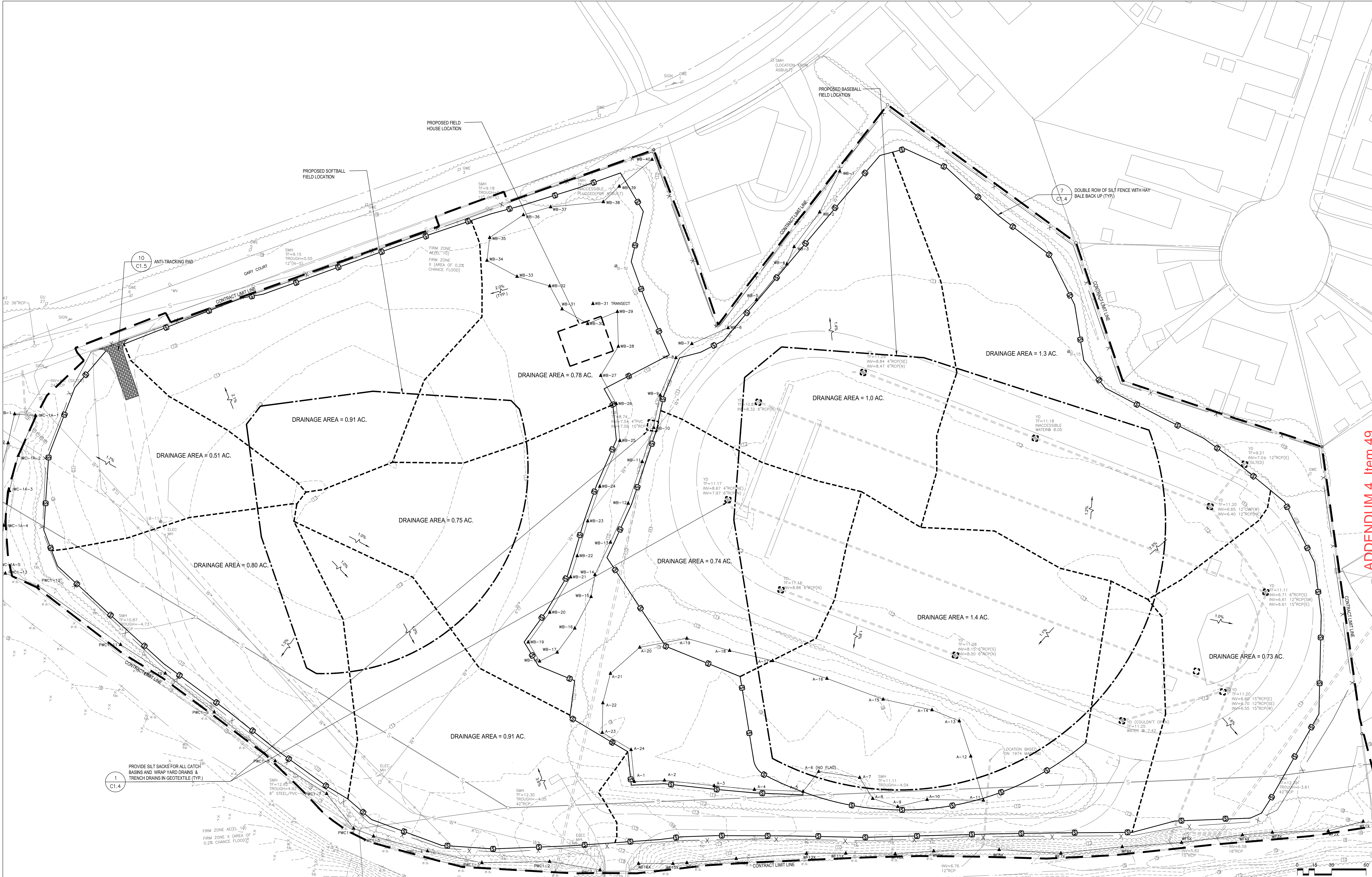
SCALE: N.T.S.

PROJECT NO.:

SK SB-1 C2.0-1



ADDENDUM 4, Item 28



10  
C1.5  
ANTI-TRACKING PAD

1  
C1.4  
PROVIDE SILT SACKS FOR ALL CATCH BASINS AND WRAP YARD DRAINS & TRENCH DRAINS IN GEOTEXTILE (TYP.)

**GENERAL CONSTRUCTION NOTES:**

- EROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON THE DRAWINGS ARE THE VERY MINIMUM WHICH MAY BE REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL MEASURES THAT ARE NECESSARY TO STABILIZE THE SITE AND/OR A RESULT OF SITE WORK PHASING. REFER TO SECTION 1.5B IN SPECIFICATION 31 25 00 "STORM WATER POLLUTION AND CONTROL PLAN (SWPCP)" FOR ADDITIONAL INFORMATION.
- SEE DRAWING C1.1 AND C1.2 FOR ADDITIONAL STORM WATER POLLUTION AND CONTROL PLAN (SWPCP) NOTES AND DETAILS.

**LEGEND**

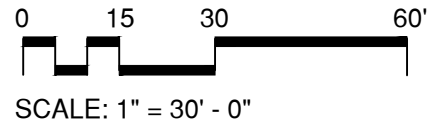
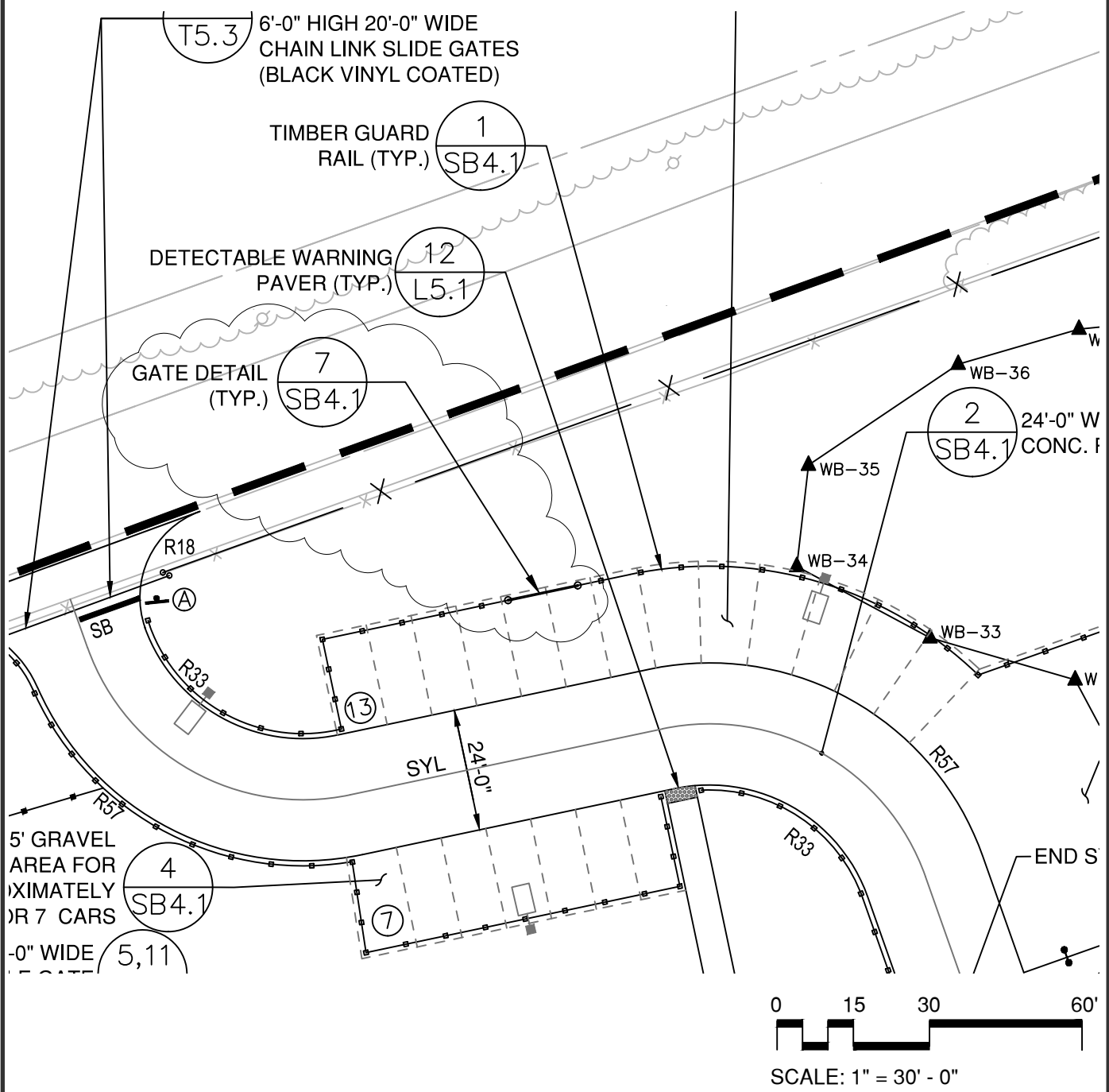
	PROPERTY / ROW LINE
	DIRECTION OF OVERLAND FLOW W/ GRADE
	LIMITS OF DISTURBANCE / C.L.L.
	EXISTING CONTOUR ELEVATIONS
	SILT FENCE
	CORE LOGS OR SILT SACK



**CONSTRUCTION DOCUMENTS**

Drawing Title: STORM WATER POLLUTION & CONTROL PLAN (SWPCP)		DATE: 12/01/2020	
DRAWING PREPARED BY: MACCHI ENGINEERS, LLC 44 Gilbert Street Hartford, Connecticut		SCALE: 1" = 30'-0"	
PROJECT: Athletic Field Construction Ella Grasso Technical High School 189 Fort Hill Road Groton, Connecticut 06340		APPROVED BY: HSM	
CADD BY: BASICS Project no. BI-RT-877A		DRAWING NO.: SB-1.C1.0	

APPENDUM 4, Item 49



DAS/DCS project no. BI-RT-877A      OSCGR project no. 900-0014

PROJECT TITLE

ATHLETIC FIELD CONSTRUCTION  
GRASSO TECHNICAL HIGH SCHOOL

SKETCH TITLE

ADDITIONAL GATE

DATE 03/04/2021

SCALE: 1" = 30'-0"

PROJECT NO.:

SK SB-1 C2.0-2



LEGEND

- PROPERTY / ROW LINE
- ▬▬▬ LIMITS OF DISTURBANCE / C.L.L.

THREATENED SPECIES: TOTAL EXISTING PASPALUM LAEVE = 49,683 SQ. FT. (1.14 AC.)

 EXISTING PASPALUM LAEVE POPULATION AREAS TO REMAIN IN PLACE = 22,825 SQ. FT. (0.52 AC.)

 EXISTING PASPALUM LAEVE INDIVIDUAL LOCATIONS TO REMAIN IN PLACE = 1 TOTAL

 EXISTING PASPALUM LAEVE IMPACTED AREAS = 26,858 SQ. FT. (0.62 AC.)

 EXISTING PASPALUM LAEVE IMPACTED INDIVIDUAL LOCATIONS = 37 TOTAL

WETLANDS:

- ▲ WETLAND DELINEATION
- WETLAND DISTURBANCE AREAS
- WETLAND A (WOODY) = 17,372 SQ. FT. (0.40 AC.)
- WETLAND B (HERBACEOUS) = 5,938 SQ. FT. (0.14 AC.)

DAS/DCS project no. BI-RT-877A      OSCGR project no. 900-0014

PROJECT TITLE

ATHLETIC FIELD CONSTRUCTION  
GRASSO TECHNICAL HIGH SCHOOL

DATE 03/04/2021

SCALE: N.T.S.

SKETCH TITLE



THREATENED SPECIES AND WETLAND  
DISTURBANCE LEGEND REVISIONS

PROJECT NO.:

SK SB-1 C1.4-1



LEGEND

-  PROPERTY / ROW LINE
-  LIMITS OF DISTURBANCE / C.L.L.

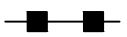
THREATENED SPECIES: TOTAL EXISTING PASPALUM LAEVE = 49,683 SQ. FT. (1.14 AC.)

 EXISTING PASPALUM LAEVE POPULATION AREAS TO REMAIN IN PLACE = 22,825 SQ. FT. (0.52 AC.)

 EXISTING PASPALUM LAEVE INDIVIDUAL LOCATIONS TO REMAIN IN PLACE = 1 TOTAL


 RELOCATED PASPALUM LAEVE IMPACTED AREAS = 26,858 SQ. FT. (0.62 AC.)

 RELOCATED PASPALUM LAEVE INDIVIDUAL LOCATIONS = 37 TOTAL

 SPLIT RAIL FENCING. REFER TO DETAIL 9/SB4.1

WETLANDS:

 WETLAND DELINEATION

 WETLAND RELOCATION AREAS:  
 WETLAND A (3:1 REPLACEMENT) = 52,116 SQ. FT. (1.20 AC.)  
 WETLAND B (2:1 REPLACEMENT) = 11,876 SQ. FT. (0.27 AC.)  
 \*AREAS MUST BE AT ELEVATION 10' OR LOWER. SEE MITIGATION PLANTING NOTE 13.

DAS/DCS project no. BI-RT-877A      OSCGR project no. 900-0014

PROJECT TITLE

ATHLETIC FIELD CONSTRUCTION  
GRASSO TECHNICAL HIGH SCHOOL

DATE 03/04/2021

SCALE: N.T.S.

SKETCH TITLE

THREATENED SPECIES AND WETLAND  
MITIGATION LEGEND REVISIONS

PROJECT NO.:

SK SB-1 C1.5-1

