



State of Utah

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Department of Administrative Services

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ADDENDUM NO. 1

Date: March 8, 2011
To: Contractors
From: Tim Parkinson
Reference: Stewart Stadium Track Resurfacing
Weber State University – Ogden, Utah
Project No.10282810

Subject: **Addendum No.1**

Pages	Addendum	1 page
	<u>Architects Addendum</u>	<u>14 pages</u>
	Total	15 pages

Note: *This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.*

1.1 SCHEDULE CHANGES – There are no changes to the project schedule.

1.2 GENERAL – MHTN Architects – please see attached sheets.



MHTN
ARCHITECTS

Addendum No. 1

Issued: 3/7/11

**Addendum No. One
for the
STEWART STADIUM TRACK REPLACEMENT
WEBER STATE UNIVERSITY
DFCM PROJECT NUMBER 10282810
MHTN Project No. 2010576.00**

All Contractors submitting proposals on the above captioned project shall be governed by the following addendum, changes and explanations to the bidding documents dated 03 FEBRUARY, 2011 and shall submit their bids in accordance therewith:

Changes to the Project Manual:

- A1.1 SECTION 321823 - POURED ATHLETIC TRACK SURFACE SYSTEMS** is revised and reissued as an attachment to this Addendum
- A1.2 Section 321313 - CONCRETE PAVING Article 2.7** delete Paragraph F in its entirety.

REVISIONS TO THE DRAWINGS

- A1.3 Sheet CS101**
Revise the following site elements as per AD01-C01:
- a. Demarcate the finish line location of track surfacing.
 - b. Add additional track paint striping.
- A1.4 Sheet CS102**
1. Revise the following site elements as per AD01-C02 and C03:
 - a. Demarcate the finish line location of track surfacing.
 - b. Add additional track paint striping in the running track area.
 - c. Add paint striping on the long jump and pole vault runways.
 2. Revise the area of track asphalt repair as per AD01-C04

ADDENDA QUESTIONS AND ANSWERS

1. On item #12 it is requested to submit 5 projects references if a firm has not completed at least 3 DFCM projects in the last five years. Just wanted to clarify that these references are to be a separate tab and not be included in the "Statement of Qualifications"?

Answer: Yes, a separate tab will be allowable.

2. I wanted to confirm the 3 pages that are required for the statement of qualifications and project management plan can be double sided.

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Answer: *Double sided pages are acceptable.*

3. As Hellas sees this qualification process, a small notebook/packet with the following tabs listed below shall be provided. Please confirm that this is correct.
1. Tab 1 – 5 project references
 2. Tab 2 – Statement of Qualifications – 3 pages (front and back)
 3. Tab 3 – Termination or Debarment Certification – 1 page
 4. Tab 4 – Project Management Plan - 3 pages (front and back)
 5. Tab 5 – Organization Chart – 1 page

Answer: *This format is acceptable but not required.*

4. On spec section 321823-3 1.4B 2&3. Requesting that the minimum years be changed to 5 years instead of 10 years, to match number 1 & 4.

Answer: *Please see A1.1 above.*

5. The track grading plan shows slopes exceeding the NCAA recommended cross fall of 1% maximum. Has the school decided to forego this requirement, or will the contractor be responsible for meeting this requirement?

Answer: *The University has decided to forego this requirement.*

6. Section 211823 - poured athletic track surface systems, part 3.3.A., discusses asphalt cure time of 14-21 days. Manufacture specifications for the synthetic surface specified require minimum 28 day cure period. Will the manufacturer's cure period requirement be upheld, and can the 28 day cure time be factored into project scheduling time line?

Answer: *Please see A1.1 above.*

7. What is the thickness of the current asphalt layer?

Answer: *As per the geotechnical report, the asphalt pavement varies in depth between 3-1/2" to 4-1/2".*

Attachments:
Section 321823
ADD01-CO1 - CO4

End of Addendum No. 1

SECTION 321823 – POURED ATHLETIC TRACK SURFACE SYSTEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes polyurethane track surface with “Hobart” texture installed over asphalt substrate
 1. Striping of track surface and track and field areas.
 2. Re-striping of track included once in the warranty period
 3. Surveyor verification that all markings are within standards established by NCAA

B. RELATED WORK

1. Division 32 Section “Asphalt Paving for paving wearing course in this Contract that is placed over sub-base provided under separate contract.

1.3 DESCRIPTION OF WORK

- A. The contracted work to be done under these specifications consists of furnishing all the required labor, materials, equipment, parts and supplies necessary for the installation of the running track surface.
- B. The work hereunder shall be done and conform to the standards for track construction as prescribed or approved by the NCAA, or IAAF.
- C. The Track Installer shall provide all labor, materials and equipment to perform the following work:
 1. Review Bidding documents and specifications, verify suitability of installation of the base to corrected levels and the in-ground track and field equipment.
 2. Sufficiently clean down all areas to be surfaced and protect all areas not to receive synthetic surface.
 3. Approve asphalt surfacing installed as work of this contract.
 4. Install approved synthetic surfacing material on all areas as defined by the Bidding documents.
 5. Install removable synthetic surfacing (rubber or full pour polyurethane), as covers in all throwing circles within synthetic aprons, on pole vault box covers, on long/triple jump blanking boards and, if included, apply synthetic surfacing to the sand pit covers.
 6. Stripe all lane lines, start-finish lines, event markings, 5 sets of lane numbers (one color) and runway borders according to NCAA standards per the listing hereafter.

D. 400m track markings (NCAA based) contrasting colors required

1. Official NCAA Events:

- a) 100 meters One directions on home straight- a-way
- b) 100 meter hurdles One directions on home straight-a-way
- c) 110 meter hurdles One directions on home straight-a-way
- d) 200 meters All in lanes, one turn
- e) 400 meters All in lanes
- f) 300 meter hurdles All in lanes
- g) 800 meters Water fall start and 1-turn stagger
- h) 1600 meters Water fall start
- i) 3200 meters Water fall start
- j) 400 meter relay (4 x 100 meters) All in lanes
- a) 800 meter relay (4 x 200 meters) All in lanes
- k) 1600 meter relay (4 x 400 meters) Three Turn Stagger
- l) 3200 meter relay (4 x 800 meters)
- m) Shot Put, Discus, and Hammer events - paint dividing lines;
- n) Shot Put, Discus, Hammer, - paint sector lines (not in circle or on runway)
- o) Pole vault, long jump, triple jump - paint runway lines
- p) Common Finish Line - alternating solid black square with open square
- q) Lane Numbers - paint prior to common finish line, client to confirm whether facing direction of running or camera
- r) Relay Exchange Zones, all per the NCAA rule book.

2. Other Events:

- a) 1-mile run
- b) Common finish line paint lean lines at 1 meter intervals, total 5 meters.

3. Paint:

- a) All lane lines, start and finish lines to receive 2 coats, colors per NCAA rule book
- b) Numbers are to be 30" high; five (5) sets of numbers are required, location verified by Owner prior to installation.

1.3 SUBMITTALS

- A. The following information shall be submitted in accordance with Division 1 requirements.
- B. Standard printed specifications of the synthetic surfacing system that is being installed.
- C. Installation process and requirements for the base, and any conditions that may limit the sports installation, or affect quality of installation.

- D. Temperature / climatic conditions limiting quality of installation.
- E. Provide documentation that shows the selected specified and installed product meets the IAAF Performance Specification for Synthetic Surfaced Athletics Tracks (Outdoor) and is certified in terms of the IAAF certification system as updated on April 1, 1999.
- F. Provide a list of completed facilities, as listed in the Owner's Request for Proposal, which are certified to meet NCAA rules & regulations, utilizing the same product as specified.
- G. Shop Drawings: Show the following:
 - 1. Installation details
 - 2. Layout of all lanes, markings, colors required for NCAA compliant track.
- H. Samples for Initial Selection: For type of system indicated. 12 x 12 inch sample.
- I. Qualification Data: For **Installer**.
- J. Warranty: Special warranty specified in this Section.

1.4 QUALITY ASSURANCE

- A. Source Limitations: Obtain athletic track surface system materials, **including primers and binders**, through one source from a single manufacturer.
 - 1. Provide secondary materials **including adhesives, primers**, and repair materials of type and from source recommended by manufacturer of track surface system materials.
- B. Contractor Qualifications
 - 1. The CONTRACTOR and MANUFACTURER must have a minimum of 5 years of experience in the installation of full depth poured-in place two component elastomeric polyurethane synthetic track surfacing.
 - 2. The MANUFACTURER must have a minimum of **5** years of experience with the compounding of two-part polyurethane for athletic surfaces.
 - 3. The CONTRACTOR shall have **5** years experience with the aliphatic coating.
 - 4. The SUPERVISOR of the installation must have installed a minimum of 5 full depth two component polyurethane tracks with an encapsulated texture in the last 3 years. A reference list must be submitted.

1.5 PROJECT CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit surface system installation to be performed according to manufacturers' written instructions and warranty requirements.
- B. Installation shall not take place if adjacent or concurrent construction generates excessive dust, abrasives or any other byproduct that, in the opinion of the installer, would be harmful to the track material, until completion of such works.

- C.. If, in the opinion of the installer of the synthetic material, the weather and/or climatic conditions are detrimental to the proper installation of the surfacing materials, work shall be delayed until conditions are acceptable.
- D. Minimum install temperature is 50 degrees Fahrenheit and rising as recommended by Manufacturer. Installation shall be executed only in dry conditions.

1.6 WARRANTY

- A. The warranty on the all-weather running track surface shall endure for five (5) years from the date of acceptance. This five-year warranty is to be provided directly by the track-surfacing contractor to the Owner. It is to include the standard company warranty and also include a two-year warranty bond from an A-rated insurance company licensed to do business in the state. This two-year warranty from the bonding company is to be payable to the Owner.
- B. The warranty shall cover defects in materials, excessive color change, excessive wear, and any other feature which is not deemed ordinary wear on a running track.
- C. Re-stripping the track and related track and field areas is required once during the warranty period

1.7 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

Poured Goods: Sheet product or filler material for emergency patches equal to 2 percent of the total amount installed on the track

PART 2 - PRODUCTS

2.1 MANUFACTURERS

Manufacturers: Subject to compliance with requirements, manufacturers include the following.

Beynon Sports Surfaces "BSS 1000"
Hellas Sportracks 4000
Rekortan M99

2.2 SYNTHETIC SEAMLESS SURFACE

- A. Performance Standards
The new synthetic track surfacing system shall exhibit the following minimum performance standards as required by IAAF:

A. Thickness Average - \geq 13mm

- B. Force Reduction 35 to 50
- C. Modified Vertical Deformation 0.6 to 1.8
- D. Friction: TRRL Skid Resistance ≥ 47
- E. Tensile Strength ≥ 0.5
- F. Elongation at break ≥ 40

2.3 TRACK SYSTEM MATERIALS

- A. Elastomeric Polyurethane
 - 1. Two-component U.V. stabilized elastomeric polyurethane
 - 2. The elastomeric polyurethane shall be GRAY in color. Matching Dynamic Charcoal color as a design standard.
- B. EPDM Granulate
 - 1. EPDM granulates shall be **1 to 3mm in size** and peroxide cured.
 - 2. EPDM granulates and the U.V. stabilized elastomeric polyurethane shall be color matched.
- C. Rubber Granulate
 - 1. **SBR** processed ground to a graded size not to exceed **20 mesh in size**
 - 2. A maximum of twenty percent, by weight, of the butyl rubber will be allowed in the force reduction layer.
- D. Aliphatic Coating
 - 1. Single Component moisture cured aliphatic coating
 - 2. Aliphatic Coating shall be gray color matching the UV stabilized elastomeric polyurethane.
- E. . No clear or two component coatings will be allowed.
- F. Paint Striping: Single component, moisture cured aliphatic polyurethane. WHITE with contrasting colors to NCAA standards.

2.4 TRACK COMPONENTS

A. Force Reduction Layer

The ~~butyl~~ **SBR** granules and UV stabilized elastomeric polyurethane shall be metered and mixed together on site to regulate the ratio/quantity of ~~butyl~~ **SBR**, not to exceed fourteen percent in the system and to insure an even distribution of the granules throughout the 8mm force reduction layer. No multi-layered system allowed.

B. Resilient Wearing Layer

The **1 to 3 millimeter** EPDM granules shall be mechanically integrated with an UV stabilized elastomeric polyurethane to the full depth of the 5mm wearing layer. The resilient textured finish shall be a dense matrix of encapsulated EPDM granules in a "Hobart" texture.

C. Protective Coating

The initial pigmented aliphatic polyurethane coating shall be spray applied over the entire synthetic surfaced area at a rate of 125 square feet per gallon. The second pigmented aliphatic polyurethane coating shall be spray applied over the initial application at a rate of 125 square feet per gallon in the opposite direction to provide uniform coverage

PART 3 - EXECUTION

3.1 INSTALLATION REQUIREMENTS

- A. The Track Installer is to purchase and install all synthetic surfacing, including on pole vault box covers, and take-off board blanking lids; **on the steeplechase water pit cover**, rsurfacing on junction boxes installed flush with asphalt within synthetic finished areas.

3.2 EXAMINATION

- A. Prior to the arrival of the installation crew, check the asphalt base for the following:
1. Dimensional accuracy
 2. Strength
 3. Surface preparation
 4. Planarity – Surface tolerance of 1/8 inch in 10 feet or as required by the manufacturer.
- B. Discovered deficiencies will be corrected in accordance with manufacturers standards.

3.2 SURFACE PREPARATION

- A. Asphalt Substrates: Provide sound surface free of laitance, efflorescence, and any contaminants incompatible with surface system.
1. Repair unsatisfactory surfaces and fill holes and depressions. Treat control joints and other nonmoving substrate cracks to prevent telegraphing through surface system.
 - a.. Leveling and Patching Material: ~~Portland cement based grout or epoxy~~ or polyurethane-based formulation suitable for exterior use and approved by system manufacturer. No cold tar patching, skin patching **Portland cement-based grout or epoxy** or sand mix patching will be acceptable.
- B. Entire surface shall be swept or power blown to remove all dirt, oil, grease, or any other foreign matter. The surface shall be free from any loose material.

3.3 LIMITATIONS

- A. Asphalt base cure time is ~~14-21~~ **28** days before application of the surface.
- B. Apply the surfacing materials only during favorable weather conditions. Work is to progress only when the installer can guarantee adequate curing.
- C. No application of the surfacing shall be conducted during rainfall, when rain is imminent, when freezing temperatures are forecasted or exist, or when gusting winds are occurring.

- D. During surface installation and striping, all sprinkler systems must be shut off, or controlled so that no water falls on the track or event surfaces. This MUST be coordinated with the General Contractor and Landscaping Sub-contractors.
- E. All materials will be installed in strict compliance with the manufacturer's recommendations

3.4 INSTALLATION, GENERAL

- A. General: Comply with system manufacturer's written installation instructions. Install surface system over area and in thickness indicated.

3.5 INSTALLATION OF SEAMLESS SYSTEMS

- A. The Synthetic track surfacing system components shall be processed and installed by specially designed machinery with automatic electronic portioning, which provides continuous mixing, feeding and finishing for accurate quality controlled installation.
 - 1. No hand mixing will be allowed.

3.6 STRIPING

- A. Prior to striping, Contractor shall verify with the owner's representative for exact locations, size, shape, and color of the lines and markings before proceeding with markings and striping.
- B. A professional surveyor shall establish all locations for striping and lanes.
- C. All striping shall be accomplished by experienced personnel specializing in all-weather running track striping.
- D. Provide lane lines, starting lines, and markings required, and conform to the standards for track construction as prescribed by the NCAA, or IAAF.
- E. Calculations shall be made to the nearest 1/100th of a foot.
- F. Angles shall be set by using a transit or theodolite capable of reading direct to 20 seconds.
- G. Measurement shall be made with a steel tape in engineering scale.
- H. Markings shall be clearly identified and color-coded on a detailed drawing to be provided to the owner upon completion.
- I. The Installer shall submit a certification of accuracy prepared by the registered Engineer or Surveyor. The Engineer or Surveyor shall certify the actual line markings on the facility, not the line markers drawings or computations. The track markings and layout must meet **NCAA** requirements and the requirements of the drawings and specifications.

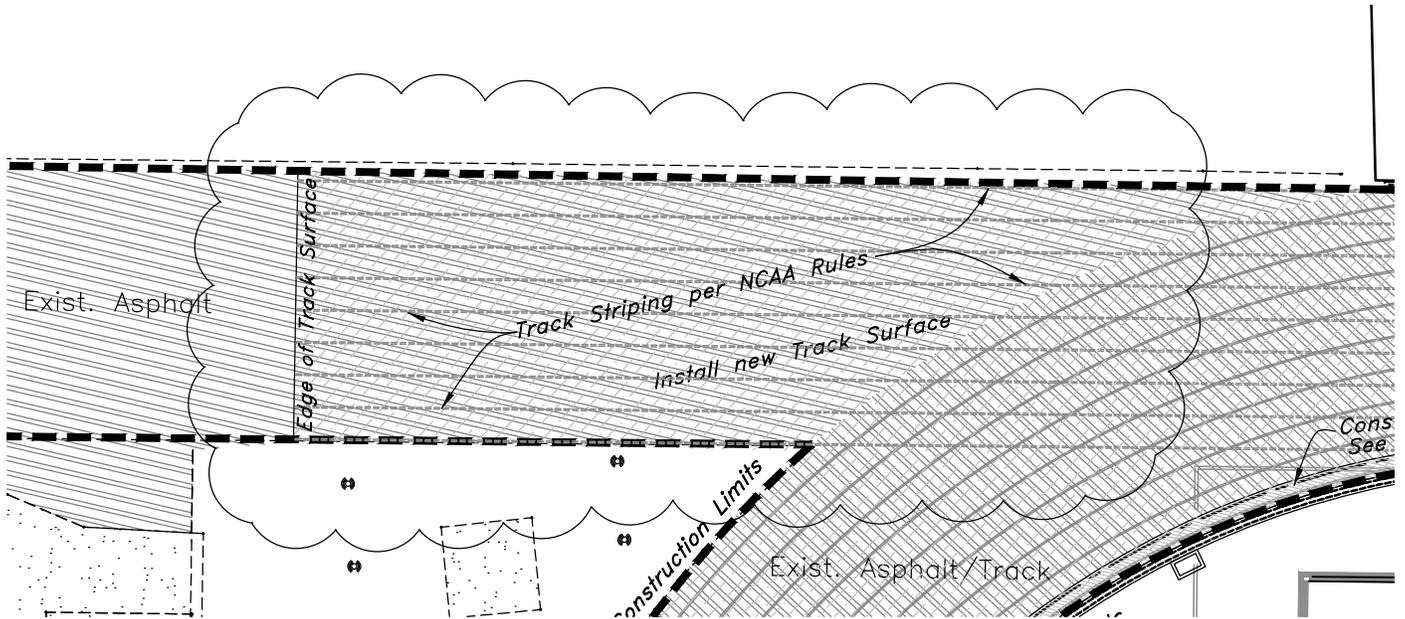
3.8 CLEANING

- A. Upon completion of all work, remove all containers, surplus materials, and installation debris. Leave area of work in clean orderly condition.
- B. Setting time prior to cleaning shall be in accordance with manufacturers standards or a minimum of 72 hours, whichever is greater.
- C. Finished surface shall be delivered to the Owner ready for use.

3.9 PROTECTION

- A. Provide signage at track perimeter to Prevent traffic over system for not less than 48 hours after installation.

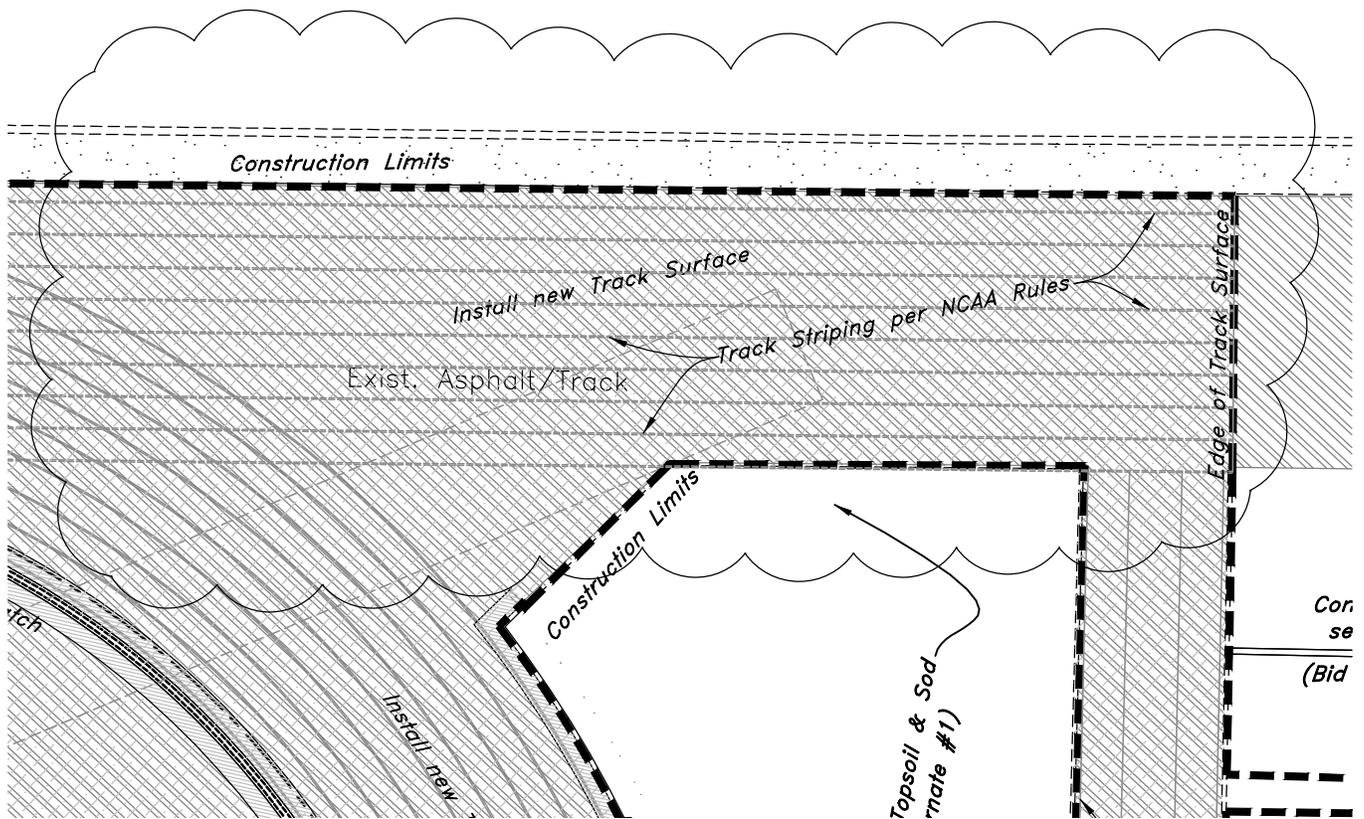
END OF SECTION 321823



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Job Name: WEBER STATE UNIVERSITY
 STEWART STADIUM TRACK RENOVATION
Job No: 2010576
Date: 7 Mar, 2011

Sheet No.
AD01-C01
 Sheet Reference
CS101



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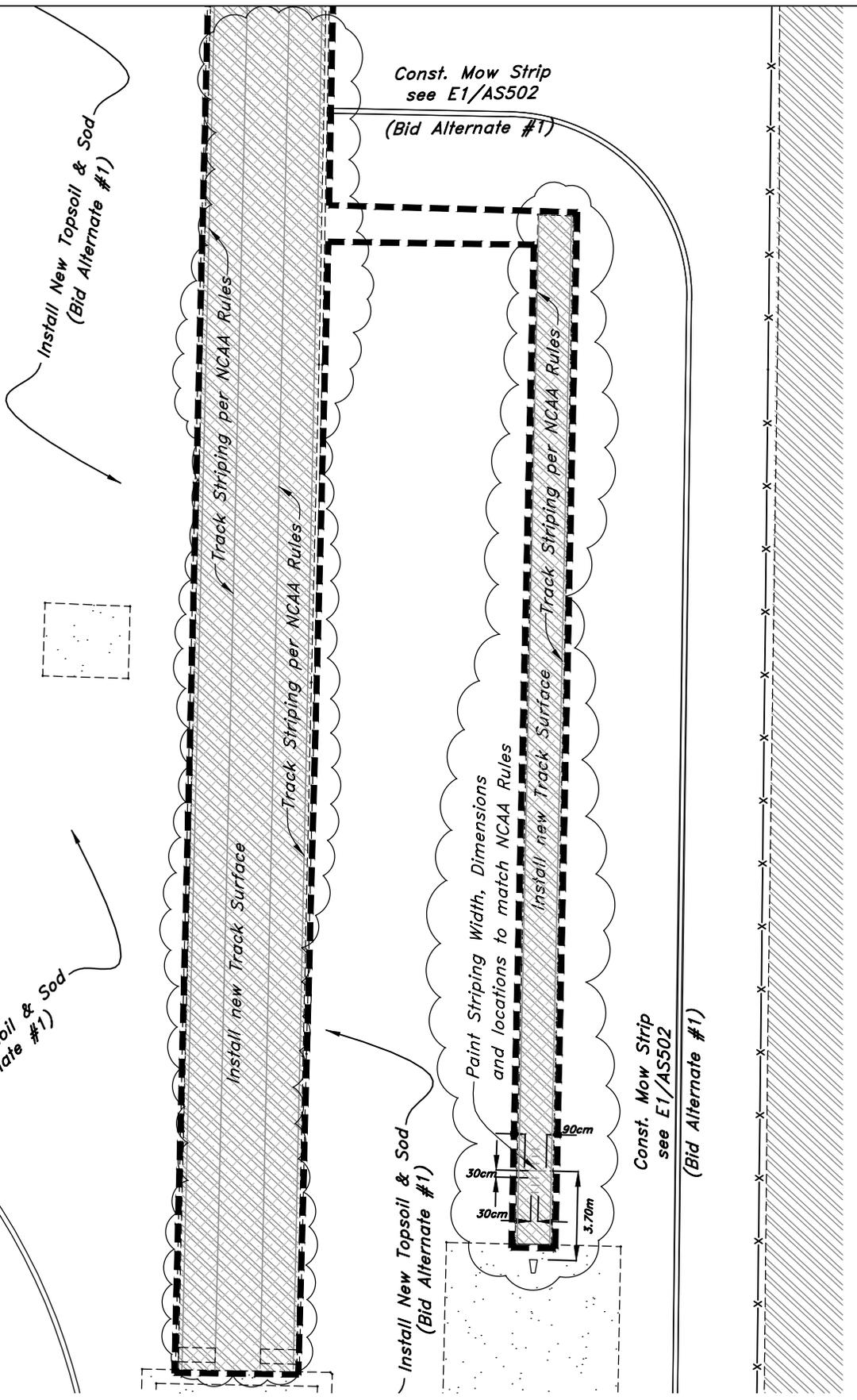
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 Date: 7 Mar, 2011

Sheet No.

AD01-C02

Sheet Reference

CS102



Install New Topsoil & Sod
(Bid Alternate #1)

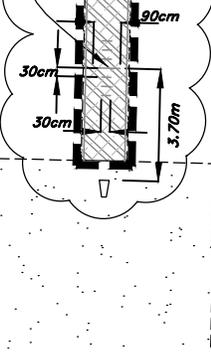
Install New Topsoil & Sod
(Bid Alternate #1)

Const. Mow Strip
see E1/AS502
(Bid Alternate #1)

Install New Topsoil & Sod
(Bid Alternate #1)

Paint Striping Width, Dimensions
and locations to match NCAA Rules

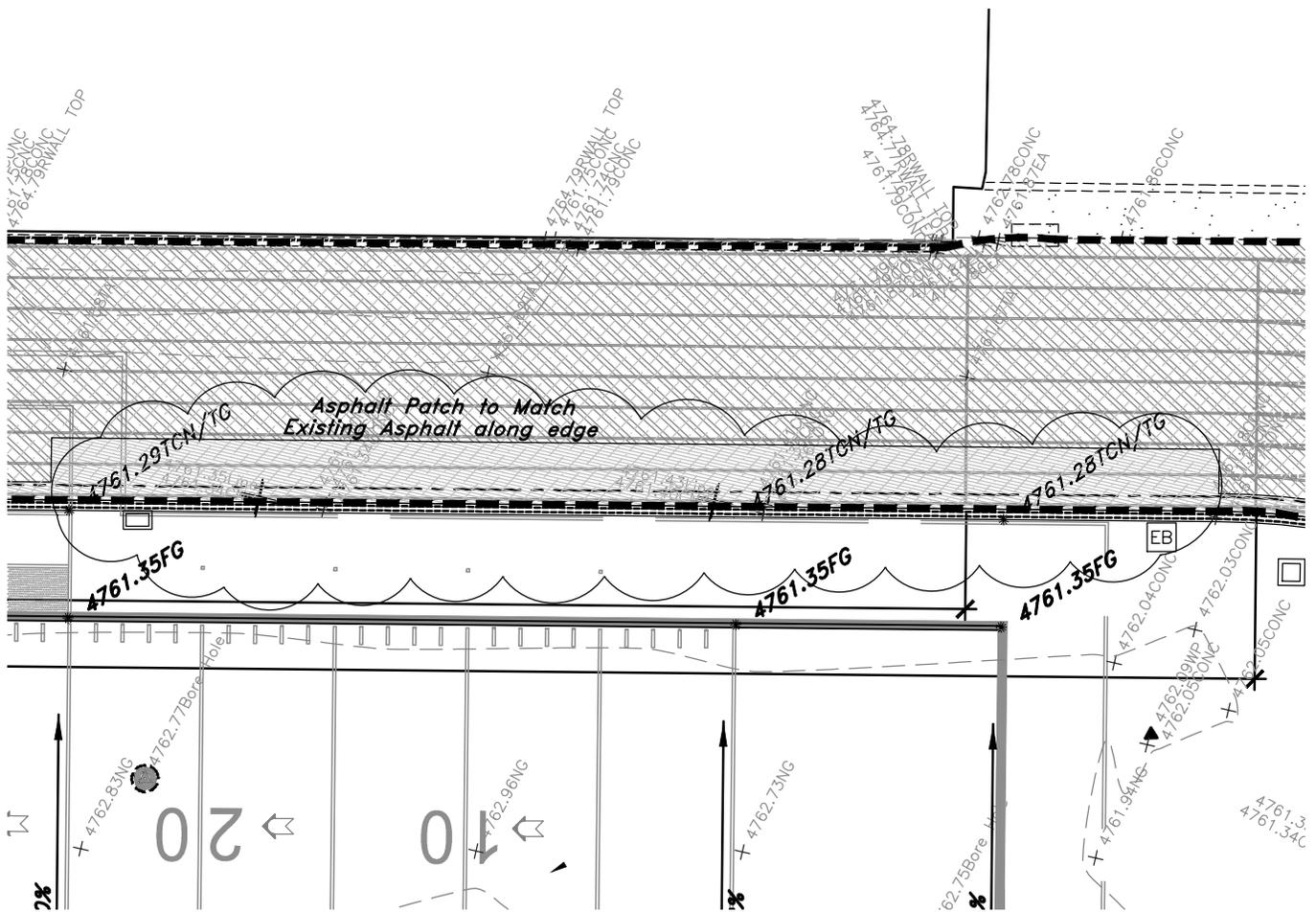
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 CS102



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CS102