



Purchasing Department

209 Water Street
Johnson City, TN 37601
(423) 975-2716

NOTIFICATION OF ADDENDUM

TO: All Prospective Vendors

FROM: Debbie Dillon,
Director of Purchasing

SUBJECT: Addendum No. 1 – ITB # **6055**
Science Hill High School Track & Field Throws Area
Construction Project

DATE: September 6, 2016

This is to notify that Addendum Number 1 is issued and it provides answers to questions that were asked at the Pre-Bid Meeting on September 1, 2016. Consider Addendum No. 1 an integral part of the above referenced Invitation to Bid:

NOTE: ADDENDUM NO. 1 IS ATTACHED

All other specifications remain the same. **Vendor to acknowledge receipt of this addendum by initialing and returning the addendum notice with the return bid package or via facsimile if it has already been submitted.** Your unopened response envelope can be returned to you for re-submittal upon request. Any questions regarding addendum submittal please contact this office.

/dd



Public Works Department
Administration • Engineering • Environmental
Solid Waste • Stormwater • Street • Traffic



September 6, 2016

To: All Prospective Bidders

From: Allan B. Cantrell, City Engineer

Subject: Addendum, Number 1 –ITB #6055
Science Hill High School Track & Field Throws Area Construction
Project

ADDENDUM 1

There were questions asked at the Pre-Bid Meeting on September 1, 2016 and this Addendum provides answers for those questions. These questions are listed below with corresponding answers provided immediately after each question. Some of these answers will clarify existing information and specifications without changing that information or specification, and other answers will add requirements and specifications to the original plans and specifications. Consider Addendum No. 1 to be an integral part of Invitation To Bid (ITB) #6055.

1. What color will be applied to the Synthetic Surface for the javelin throw runway?

Answer: Red.

2. Is there a specific brand of retaining wall block to be used, or is the contractor free to choosing any brand?

Answer: The Contractor may choose the brand of retaining wall block in conformance with the information provided in the plans.

3. What is the City's desire for:
 - a. Color of wall block, and
 - b. Surface Texture of the wall block?

Answer:

- a. The color shall be the same as the retaining wall on Pactolas Street in Johnson City, which the manufacturer refers to as "Piedmont Blend. There are two retaining walls on Pactolas Street, located between Knob Creek Road and Liberty Bell Boulevard. The contractor should visit these walls to witness the block color. See the attached photograph.
- b. The surface texture of the block shall be the style and shape matching the block in the walls on Pactolas Street, which has a beveled face, see the attached photograph

4. What path will be designated for the contractor to follow when accessing the work area with heavy equipment?

Answer:

The site can be accessed with heavy equipment from the driveway that passes in front of the Vocational School Building. This is the driveway that connects from Liberty Bell Boulevard to the back side of Freedom Hall. There is a double gate in the fence that surrounds the athletic fields. Access will be through the gates, across the athletic field and behind the new Field House. The contractor shall protect the 12 foot wide concrete sidewalk by using metal plates with sand cushioning between the plates and the sidewalk. The contractor shall repair any damage that occurs to the sidewalk as a result of accessing the site. The contractor shall also repair the athletic field and establish grass where travel across the field causes rutting and damage to the grass.

5. Are there any underground utilities in the proposed project area?

Answer:

No, we are not aware of any, but the contractor shall call the One Call center and request marking of utilities to be sure that there are none.

6. Johnson City's Codes Office says that a hand railing is required on each side of the proposed sidewalk where it spans the concrete lined ditch, what will the specification be for the handrail?

Answer:

A specification for handrails on concrete slab spanning the concrete lined ditch is attached and is hereby added to the other specifications previously provided. Also refer to the attached drawing, SK-1 for additional handrail details.

7. Shouldn't there be additional reinforcing steel in the sidewalk slab sections that span the concrete lined ditch, if so what size and spacing?

Answer:

The attached drawing, SK-1 provides additional detail on reinforcing of the concrete slab that spans the concrete lined ditch.

8. What type of back fill material should be used inside of the retaining wall area?

Answer:

Clean crushed stone of size N0. 57 shall be used for the main back fill inside of the retaining wall that surrounds the Javelin Runway. The 8-inch base layer labeled in Detail (1) on sheet C-600 shall be TDOT Item 303-01, Mineral Aggregate, Type "A" BASE, GRADING "D". A layer of 8-ounce, non-woven geotech fabric shall be placed between the no. 57 stone and the mineral aggregate base.

9. In Detail (4) Retaining Wall-Section, sheet C-600, there are three drawings showing foundations (leveling pads) for the wall. Two details have the leveling pad labeled as 3000 psi unreinforced concrete and the third detail implies crushed stone by the type of hatching used. Are there two types of leveling pad for the wall, or should concrete be used for the entire leveling pad?

Answer:

The leveling pad for the base units on the retaining wall shall be 3000 psi unreinforced concrete.

10. On sheet C-600, Detail (2), Javelin Runway-Section and Detail (3) Concrete Walk-Section both have temperature reinforcing steel specified; will the concrete for the Hammer/Discus Pad and Circle, Detail (1), sheet C-601 have similar steel reinforcement?

Answer:

Detail (1) on sheet C-601 shall have similar reinforcing as Details (2) and (3) on sheet C-600. The reinforcing shall be WWF 6"x6"-W2.0xW2.0 mesh.

11. A label referencing the surrounding outer concrete shown in the Detail (2), Hammer/Discus Pad and Cage Layout-Plan indicates "Concrete Pavement, See Detail". There isn't a detail labeled as such, so is Detail (3), Concrete Walk – Section, sheet C-600 serving for both the concrete walk and other concrete pavement?

Answer:

The subject label calling out "Concrete Pavement, See Detail" shown in Detail (2) of sheet C-601 shall refer to Detail (1) on Sheet C-601 "Hammer/Discus Circle – Section". It does not refer to the detail for Concrete Walk.

12. Galvanized reinforcing steel is specified in Detail (2), Javelin Runway-Section, Sheet C-600, but not in other details that call out temperature reinforcing steel. Is all temperature reinforcing steel galvanized?

Answer:

The temperature reinforcing steel does NOT need to be galvanized.

13. There are dimensions shown in decimal, and without units in Detail (1), Hammer/Discus Circle-Section, sheet C-601, are these dimensions decimal feet?

Answer:

These dimensions are in decimal feet.

14. What is the specification for the metal Hammer Ring, and the metal Discus Ring?

Answer:

See attached specification Section 116833.43 - Track and Field Equipment.

15. Is the Hammer and Discus Cage included in the contract work?

Answer:

Yes, See attached specification Section 116833.43 - Track and Field Equipment”

Notes in the form of mark-ups have been added to the detail sheets, C-600 and C-601. These notes are to help reflect the answers provided to the questions above. These Sheets with notes are attached to this Addenda No. 1.



Pactolas Street Retaining Wall

SECTION 055213 - PIPE AND TUBE RAILINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Steel pipe railings.

1.3 COORDINATION

- A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.
- B. Coordinate installation of anchorages for railings. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.
- C. Schedule installation so wall attachments are made only to completed walls. Do not support railings temporarily by any means that do not satisfy structural performance requirements.

1.4 ACTION SUBMITTALS

- A. Product Data: For the following:
 - 1. Manufacturer's product lines of mechanically connected railings.
 - 2. Railing brackets.
 - 3. Grout, anchoring cement, and paint products.
- B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work.
- C. Delegated-Design Submittal: For railings, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For testing agency.
- B. Welding certificates.
- C. Mill Certificates: Signed by manufacturers of stainless-steel products certifying that products furnished comply with requirements.
- D. Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers certifying that shop primers are compatible with topcoats.

- E. Product Test Reports: For pipe and tube railings, for tests performed by a qualified testing agency, according to ASTM E 894 and ASTM E 935.
- F. Evaluation Reports: For post-installed anchors, from ICC-ES.

1.6 QUALITY ASSURANCE

- A. Welding Qualifications: Qualify procedures and personnel according to the following:
 - 1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."
 - 2. AWS D1.2/D1.2M, "Structural Welding Code - Aluminum."
 - 3. AWS D1.6/D1.6M, "Structural Welding Code - Stainless Steel."

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

1.8 FIELD CONDITIONS

- A. Field Measurements: Verify actual locations of walls and other construction contiguous with metal fabrications by field measurements before fabrication.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Railings, shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:
 - 1. Handrails and Top Rails of Guards:
 - a. Uniform load of 50 lbf/ ft. (0.73 kN/m) applied in any direction.
 - b. Concentrated load of 200 lbf (0.89 kN) applied in any direction.
 - c. Uniform and concentrated loads need not be assumed to act concurrently.
 - 2. Infill of Guards:
 - a. Concentrated load of 50 lbf (0.22 kN) applied horizontally on an area of 1 sq. ft. (0.093 sq. m).
 - b. Infill load and other loads need not be assumed to act concurrently.
- B. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.
 - 1. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C, material surfaces).

2.2 METALS, GENERAL

- A. Metal Surfaces, General: Provide materials with smooth surfaces, without seam marks, roller marks, rolled trade names, stains, discolorations, or blemishes.
- B. Brackets, Flanges, and Anchors: Cast or formed metal of same type of material and finish as supported rails unless otherwise indicated.
 - 1. Provide type of bracket with predrilled hole for exposed bolt anchorage and that provides 1-1/2-inch (38-mm) clearance from inside face of handrail to finished wall surface.

2.3 STEEL AND IRON

- A. Pipe: ASTM A 53/A 53M, Type F or Type S, Grade A, Standard Weight (Schedule 40), unless another grade and weight are required by structural loads.
 - 1. Provide galvanized finish for exterior installations and where indicated.
- B. Plates, Shapes, and Bars: ASTM A 36/A 36M.
- C. Cast Iron: Either gray iron, ASTM A 48/A 48M, or malleable iron, ASTM A 47/A 47M, unless otherwise indicated.

2.4 FASTENERS

- A. General: Provide the following:
 - 1. Ungalvanized-Steel Railings: Plated steel fasteners complying with ASTM B 633 or ASTM F 1941 (ASTM F 1941M), Class Fe/Zn 5 for zinc coating.
 - 2. Provide exposed fasteners with finish matching appearance, including color and texture, of railings.
- B. Fasteners for Anchoring Railings to Other Construction: Select fasteners of type, grade, and class required to produce connections suitable for anchoring railings to other types of construction indicated and capable of withstanding design loads.
- C. Fasteners for Interconnecting Railing Components:
 - 1. Provide concealed fasteners for interconnecting railing components and for attaching them to other work, unless otherwise indicated.
 - 2. Provide concealed fasteners for interconnecting railing components and for attaching them to other work, unless exposed fasteners are unavoidable or are the standard fastening method for railings indicated.
 - 3. Provide square or hex socket flat-head machine screws for exposed fasteners unless otherwise indicated.
- D. Post-Installed Anchors: Torque-controlled expansion anchors or chemical anchors capable of sustaining, without failure, a load equal to 6 times the load imposed when installed in unit masonry and 4 times the load imposed when installed in concrete, as determined by testing according to ASTM E 488/E 488M, conducted by a qualified independent testing agency.
 - 1. Material for Interior Locations: Carbon-steel components zinc-plated to comply with ASTM B 633 or ASTM F 1941 (ASTM F 1941M), Class Fe/Zn 5, unless otherwise indicated.

2.5 MISCELLANEOUS MATERIALS

- A. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.
- B. Etching Cleaner for Galvanized Metal: Complying with MPI#25.
- C. Universal Shop Primer: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with MPI#79 and compatible with topcoat.
 - 1. Use primer containing pigments that make it easily distinguishable from zinc-rich primer.
- D. Shop Primer for Galvanized Steel: Primer formulated for exterior use over zinc-coated metal and compatible with finish paint systems indicated.

- E. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D 1187/D 1187M.
- F. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107/C 1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.
- G. Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with water at Project site to create pourable anchoring, patching, and grouting compound.

2.6 FABRICATION

- A. General: Fabricate railings to comply with requirements indicated for design, dimensions, member sizes and spacing, details, finish, and anchorage, but not less than that required to support structural loads.
- B. Shop assemble railings to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation. Use connections that maintain structural value of joined pieces.
- C. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch (1 mm) unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.
- D. Form work true to line and level with accurate angles and surfaces.
- E. Fabricate connections that are exposed to weather in a manner that excludes water. Provide weep holes where water may accumulate.
- F. Cut, reinforce, drill, and tap as indicated to receive finish hardware, screws, and similar items.
- G. Connections: Fabricate railings with either welded or nonwelded connections unless otherwise indicated.
- H. Welded Connections: Cope components at connections to provide close fit, or use fittings designed for this purpose. Weld all around at connections, including at fittings.
 - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 - 2. Obtain fusion without undercut or overlap.
 - 3. Remove flux immediately.
 - 4. At exposed connections, finish exposed surfaces smooth and blended so no roughness shows after finishing and welded surface matches contours of adjoining surfaces.
- I. Welded Connections for Aluminum Pipe: Fabricate railings to interconnect members with concealed internal welds that eliminate surface grinding, using manufacturer's standard system of sleeve and socket fittings.
- J. Nonwelded Connections: Connect members with concealed mechanical fasteners and fittings. Fabricate members and fittings to produce flush, smooth, rigid, hairline joints.
 - 1. Fabricate splice joints for field connection using an epoxy structural adhesive if this is manufacturer's standard splicing method.

- K. Form Changes in Direction as Follows:
 - 1. As detailed.
 - 2. By bending or by inserting prefabricated elbow fittings.
- L. For changes in direction made by bending, use jigs to produce uniform curvature for each repetitive configuration required. Maintain cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of components.
- M. Close exposed ends of railing members with prefabricated end fittings.
- N. Provide wall returns at ends of wall-mounted handrails unless otherwise indicated. Close ends of returns unless clearance between end of rail and wall is 1/4 inch (6 mm) or less.
- O. Brackets, Flanges, Fittings, and Anchors: Provide wall brackets, flanges, miscellaneous fittings, and anchors to interconnect railing members to other work unless otherwise indicated.
 - 1. At brackets and fittings fastened to plaster or gypsum board partitions, provide crush-resistant fillers or other means to transfer loads through wall finishes to structural supports and prevent bracket or fitting rotation and crushing of substrate.
- P. Provide inserts and other anchorage devices for connecting railings to concrete or masonry work. Fabricate anchorage devices capable of withstanding loads imposed by railings. Coordinate anchorage devices with supporting structure.
- Q. For railing posts set in concrete, provide steel sleeves not less than 8 inches long with inside dimensions not less than 1/2 inch (13 mm) greater than outside dimensions of post, with metal plate forming bottom closure.
- R. For removable railing posts, fabricate slip-fit sockets from steel tube or pipe whose ID is sized for a close fit with posts; limit movement of post without lateral load, measured at top, to not more than one-fortieth of post height. Provide socket covers designed and fabricated to resist being dislodged.
 - 1. Provide chain with eye, snap hook, and staple across gaps formed by removable railing sections at locations indicated. Fabricate from same metal as railings.

2.7 STEEL AND IRON FINISHES

- A. For nongalvanized-steel railings, provide nongalvanized ferrous-metal fittings, brackets, fasteners, and sleeves; however, galvanize anchors to be embedded in exterior concrete or masonry.
- B. Primer Application: Apply shop primer to prepared surfaces of railings unless otherwise indicated. Comply with requirements in SSPC-PA 1, "Shop, Field, and Maintenance Painting of Steel," for shop painting. Primer need not be applied to surfaces to be embedded in concrete or masonry.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine plaster and gypsum board assemblies, where reinforced to receive anchors, to verify that locations of concealed reinforcements are clearly marked for Installer. Locate reinforcements and mark locations if not already done.

3.2 INSTALLATION, GENERAL

- A. Fit exposed connections together to form tight, hairline joints.
- B. Perform cutting, drilling, and fitting required for installing railings. Set railings accurately in location, alignment, and elevation; measured from established lines and levels and free of rack.
 - 1. Do not weld, cut, or abrade surfaces of railing components that are coated or finished after fabrication and that are intended for field connection by mechanical or other means without further cutting or fitting.
 - 2. Set posts plumb within a tolerance of 1/16 inch in 3 feet (2 mm in 1 m).
 - 3. Align rails so variations from level for horizontal members and variations from parallel with rake of steps and ramps for sloping members do not exceed 1/4 inch in 12 feet (6 mm in 3.5 m).
- C. Control of Corrosion: Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.
 - 1. Coat, with a heavy coat of bituminous paint, concealed surfaces of aluminum that are in contact with grout, concrete, masonry, wood, or dissimilar metals.
- D. Adjust railings before anchoring to ensure matching alignment at abutting joints.
- E. Fastening to In-Place Construction: Use anchorage devices and fasteners where necessary for securing railings and for properly transferring loads to in-place construction.

3.3 RAILING CONNECTIONS

- A. Nonwelded Connections: Use mechanical or adhesive joints for permanently connecting railing components. Seal recessed holes of exposed locking screws using plastic cement filler colored to match finish of railings.
- B. Welded Connections: Use fully welded joints for permanently connecting railing components. Comply with requirements for welded connections in "Fabrication" Article whether welding is performed in the shop or in the field.
- C. Expansion Joints: Install expansion joints at locations indicated but not farther apart than required to accommodate thermal movement. Provide slip-joint internal sleeve extending 2 inches (50 mm) beyond joint on either side, fasten internal sleeve securely to one side, and locate joint within 6 inches (150 mm) of post.

3.4 ATTACHING RAILINGS

- A. Anchor railing ends at walls with round flanges anchored to wall construction and welded to railing ends or connected to railing ends using nonwelded connections.
- B. Anchor railing ends to metal surfaces with flanges bolted to metal surfaces and welded to railing ends or connected to railing ends using nonwelded connections.
- C. Attach railings to wall with wall brackets, except where end flanges are used. Locate brackets as indicated or, if not indicated, at spacing required to support structural loads.
- D. Secure wall brackets and railing end flanges to building construction as follows:
 - 1. For concrete and solid masonry anchorage, use drilled-in expansion shields and hanger or lag bolts.

2. For hollow masonry anchorage, use toggle bolts.
3. For wood stud partitions, use hanger or lag bolts set into studs or wood backing between studs. Coordinate with carpentry work to locate backing members.
4. For steel-framed partitions, use self-tapping screws fastened to steel framing or to concealed steel reinforcements.
5. For steel-framed partitions, use toggle bolts installed through flanges of steel framing or through concealed steel reinforcements.

3.5 ADJUSTING AND CLEANING

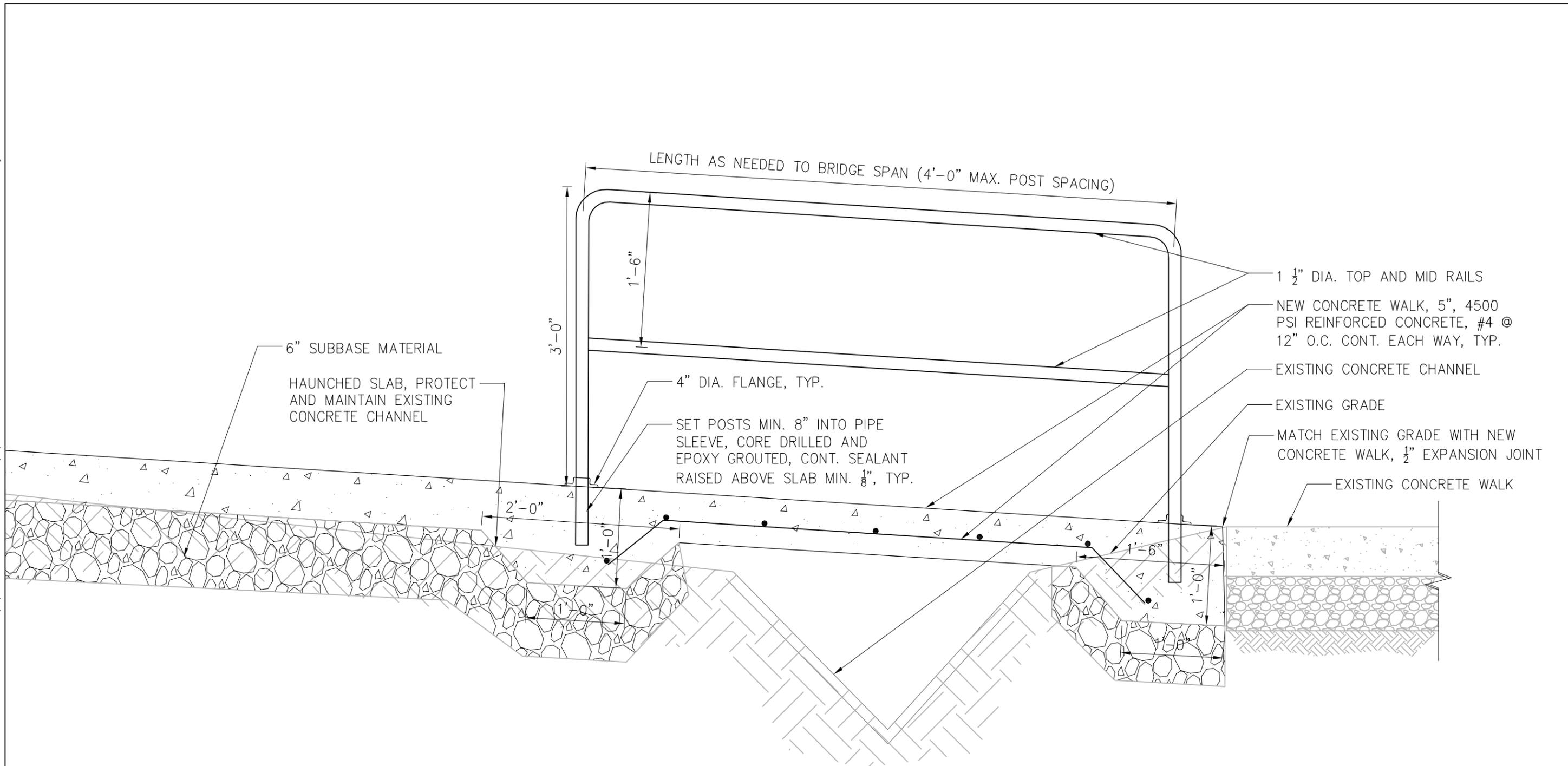
- A. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material as used for shop painting to comply with SSPC-PA 1 requirements for touching up shop-painted surfaces.
 1. Apply by brush or spray to provide a minimum 2.0-mil (0.05-mm) dry film thickness.

3.6 PROTECTION

- A. Protect finishes of railings from damage during construction period with temporary protective coverings approved by railing manufacturer. Remove protective coverings at time of Substantial Completion.

END OF SECTION

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7

CONCRETE WALK AT CONCRETE CHANNEL - SECTION

SCALE: NTS



SCIENCE HILL HIGH SCHOOL
TRACK THROWS

CONCRETE WALK WITH HANDRAIL DETAIL
REPLACES DETAIL 7/C-601

PROJECT NO.
31814

DATE: 9/6/16

SK-1

SECTION 116833.43 – TRACK AND FIELD EQUIPMENT

PART 1 – GENERAL

1.1 SUMMARY

- A. This section covers all labor and materials required to install the following:
 - 1. In-ground track and field equipment.
- B. The Contractor is responsible for the purchase and installation of all sports equipment. The Track & Field Synthetic Surfacing Contractor is responsible for installation of synthetic surface in, around and on top of the specified sports equipment.

1.2 CODES AND STANDARDS

- A. Codes and standards follow the current guidelines set forth by the International Association of Athletics Federations (IAAF) and the National Collegiate Athletic Association (NCAA).

1.3 SUBMITTALS

- A. The following information shall be submitted prior to installation of specified work.
 - 1. Standard printed specifications and diagrams or drawings depicting installation directions and dimensions for all in-ground sports equipment.
 - 2. Installation process and requirements for subbase (stone and asphalt) and any conditions that may limit the installation or affect quality of installation.
 - 3. Material safety data sheets on all products, as necessary.
 - 4. Contractor to supply Owner with a 1 gallon sample of field event material product(s) for visual inspection and testing.

1.4 QUALITY ASSURANCE

- A. The Contractor shall only accept bids from those vendors or manufacturers that have been pre-approved or identified as approved equivalent.
- B. The Contractor shall only accept bids from those vendors or manufacturers that have been pre-approved, identified as approved equivalent or that meet the requirements as an equivalent product.

PART 2 – PRODUCTS

2.1 IN-GROUND TRACK & FIELD EQUIPMENT

- A. The Contractor is responsible to provide and install all permanent, in-ground track & field event equipment as specified by these specifications and shown on the project drawings. The products must meet NCAA regulations.
- B. The physical make-up of these products vary across the country; therefore the Contractor shall use his best efforts to supply the Owner with a product that best meets the performance specifications listed below.
- C. The in-ground track & field equipment is available from the following:
 - 1. UCS Spirit: Contact: Mike Chappell; Telephone: (800) 526-4856.

2. Gill Athletics: Contact: Mike Cunningham; Telephone: (800) 637-3090.
 3. Sportsfield Specialties:
 - a. Contact: Brian Jaeger (Southeast) Tel.: (607) 267-3621.
- D. In-ground Equipment (Based on UCS Model # or Approved Equivalent)
1. One (1) tall dual circle hammer/discus cage with ground sleeves. Black Netting, capable of raising and lowering on a pulley system. Model #570-3600R.
 2. One (1) web style hammer circle. Model #725-2550.
 3. One (1) web style discus circle. Model #725-2530.

PART 3 – EXECUTION

3.1 INSTALLATION OF SPORTS EQUIPMENT

- A. The installation of the track and field equipment stated herein shall follow the directions of the manufacturer and/or vendor. Shop drawings must be submitted and approved prior to installation of equipment.

3.2 ADJUSTING AND CLEANING

- A. Upon completion of installation, test operation to demonstrate satisfactory operation acceptable to Owner.
- B. Clean or replace unsuitable materials.

END OF SECTION



IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

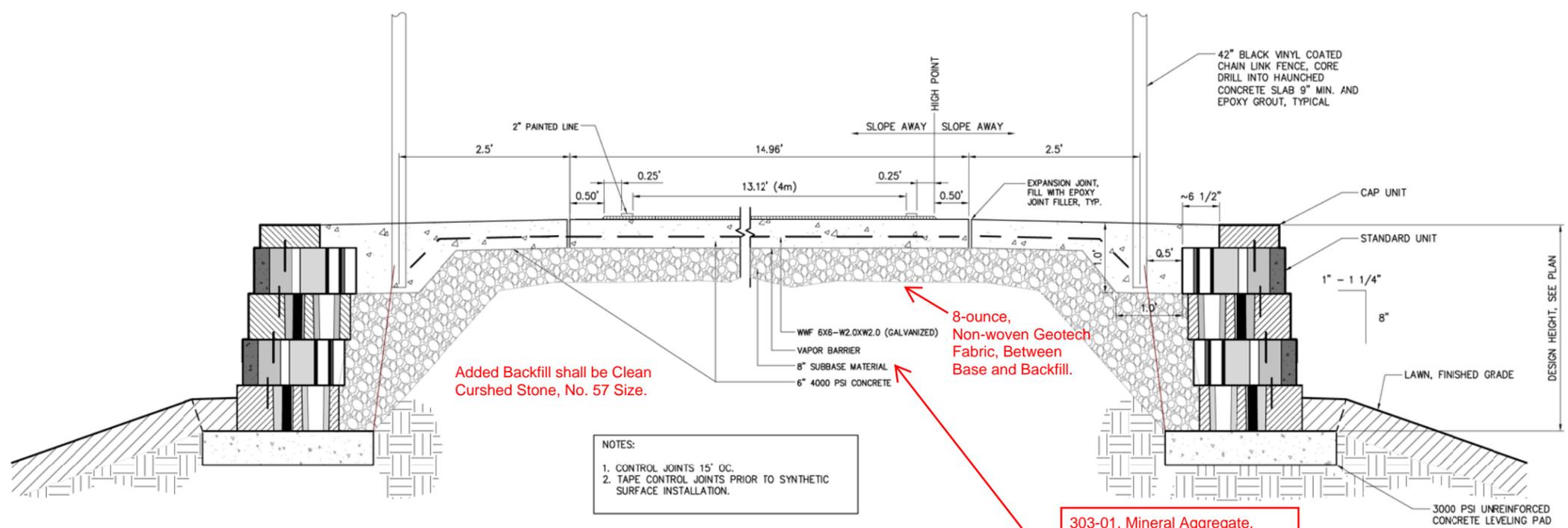
SCIENCE HILL HIGH SCHOOL
JOHNSON CITY, TN
TRACK THROWS

No.	Submitted / Revision	App'd.	By	Date

SITE DETAILS

Designed By:	Drawn By:	Checked By:
JRP	JRP	EJO
Issue Date:	Project No.:	Scale:
8/12/16	31814	AS SHOWN

Drawing No.:
C-600

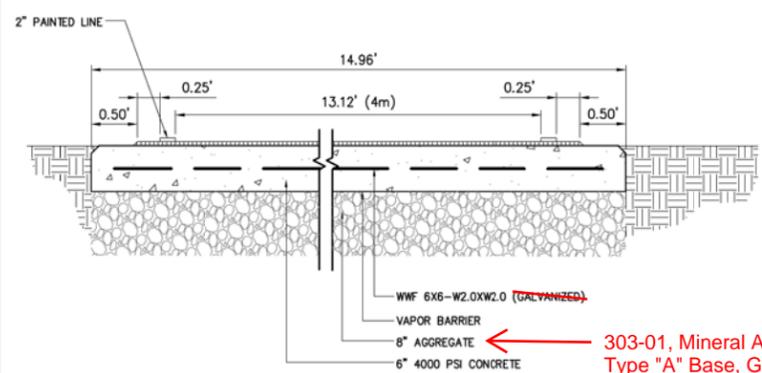


1 JAVELIN RUNWAY AT RETAINING WALL - SECTION
SCALE: NTS

NOTES:
1. CONTROL JOINTS 15' O.C.
2. TAPE CONTROL JOINTS PRIOR TO SYNTHETIC SURFACE INSTALLATION.

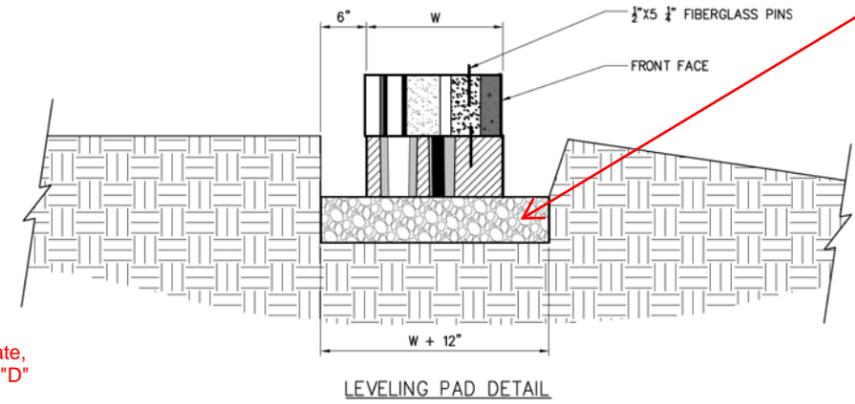
303-01, Mineral Aggregate, Type "A" Base, Grading "D"

3000 PSI UNREINFORCED CONCRETE LEVELING PAD



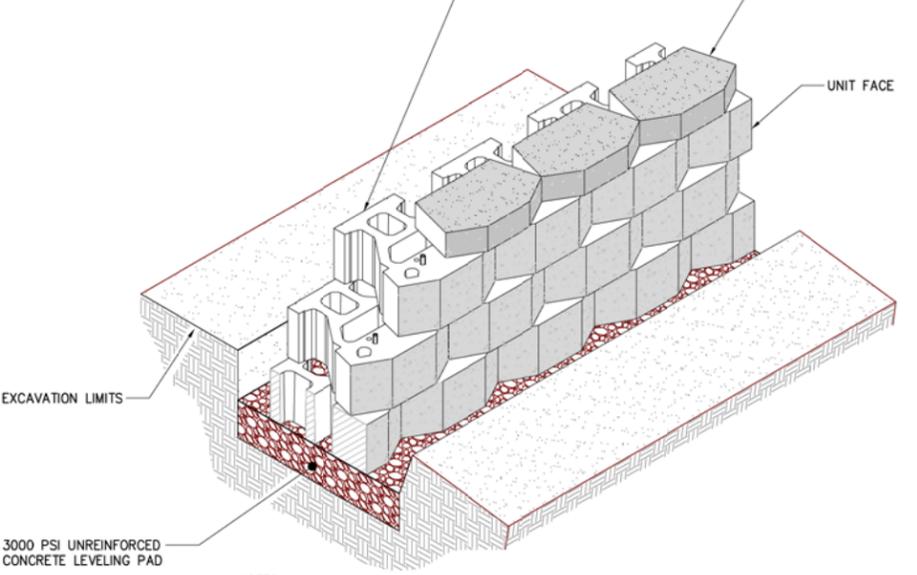
2 JAVELIN RUNWAY - SECTION
SCALE: NTS

303-01, Mineral Aggregate, Type "A" Base, Grading "D"



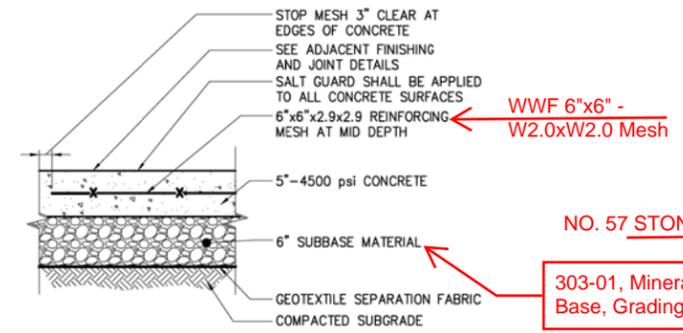
LEVELING PAD DETAIL

STANDARD UNIT		CAP UNIT	
WIDTH:	18"	WIDTH:	18"
DEPTH:	18"	DEPTH:	10 1/2"
HEIGHT:	8"	HEIGHT:	4"
WEIGHT:	102 LBS*	WEIGHT:	45 LBS*



NOTES:
1. THE BASE FOUNDATION IS TO BE APPROVED BY THE SITE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF THE LEVELING PAD
*2. DIMENSIONS & WEIGHT MAY VARY BY REGION

ISOMETRIC DETAIL VIEW



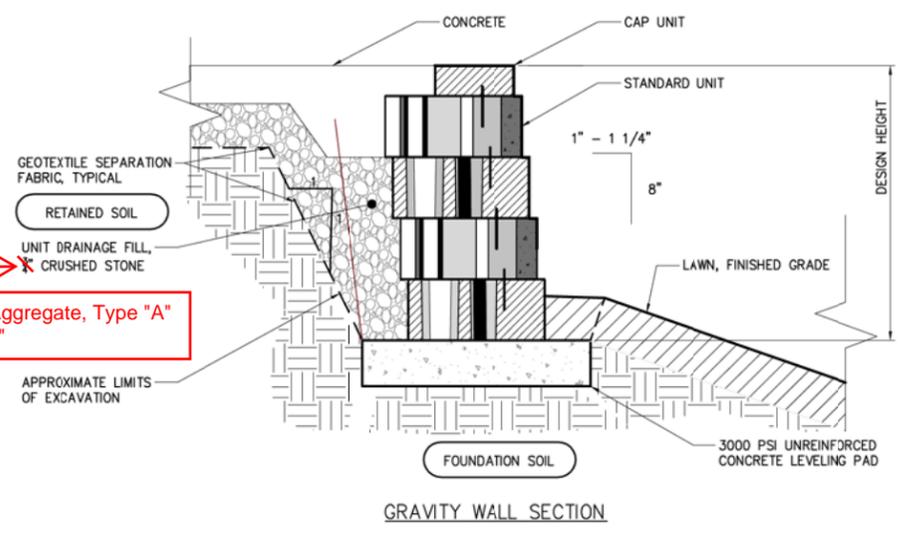
NOTES:
1. EXPANSION JOINTS TO BE PLACED BETWEEN ADJACENT SLABS OR AT PENETRATING STRUCTURES. MAX. 20'-0" O.C..
2. LOCATE CONTROL JOINTS AS SHOWN ON PLAN OR MAX. 5'-0" O.C. ADJUST TIGHT AREAS TO EQUAL SPACING.

3 CONCRETE WALK - SECTION
SCALE: NTS

WWF 6"x6" - W2.0xW2.0 Mesh

NO. 57 STONE

303-01, Mineral Aggregate, Type "A" Base, Grading "D"



GRAVITY WALL SECTION

4 RETAINING WALL - SECTION
SCALE: NTS

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IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER IN ANY WAY IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL OR REGISTERED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SCIENCE HILL HIGH SCHOOL
 JOHNSON CITY, TN
 TRACK THROWS

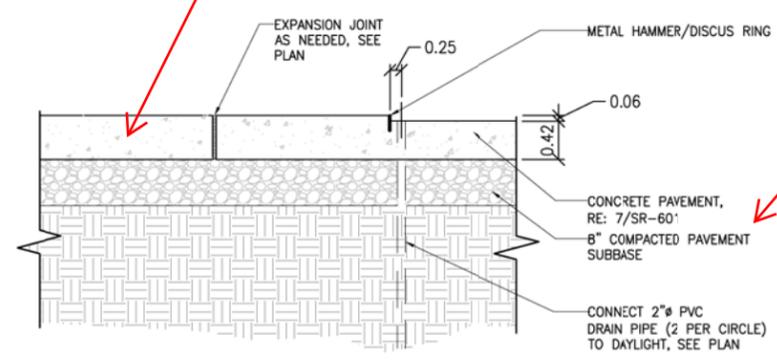
No.	Submitted / Revision	App'd.	By	Date

SITE DETAILS

Designed By: JRP	Drawn By: JRP	Checked By: EJO
Issue Date: 8/12/16	Project No.: 31814	Scale: AS SHOWN

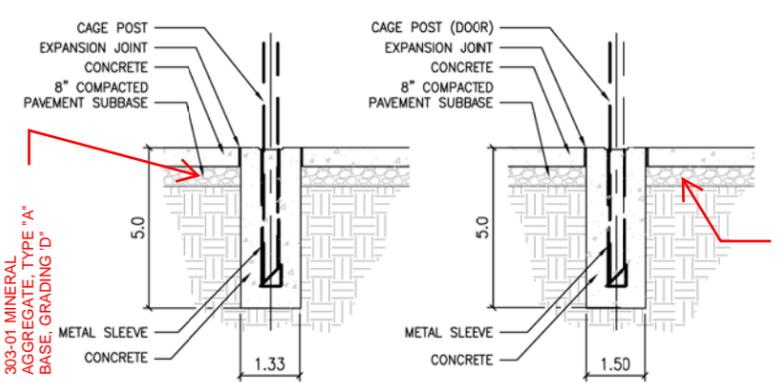
NOTE:
 1. ALL DRAWINGS DEPICTING IN-GROUND EQUIPMENTS ARE FOR BIDDING ONLY. REFER TO SHOP DRAWINGS FOR INSTALLATION DIMENSIONS AND INSTRUCTIONS.

Reinforcing: WWF 6"x6"
 - W2.0xW2.0 Mesh.



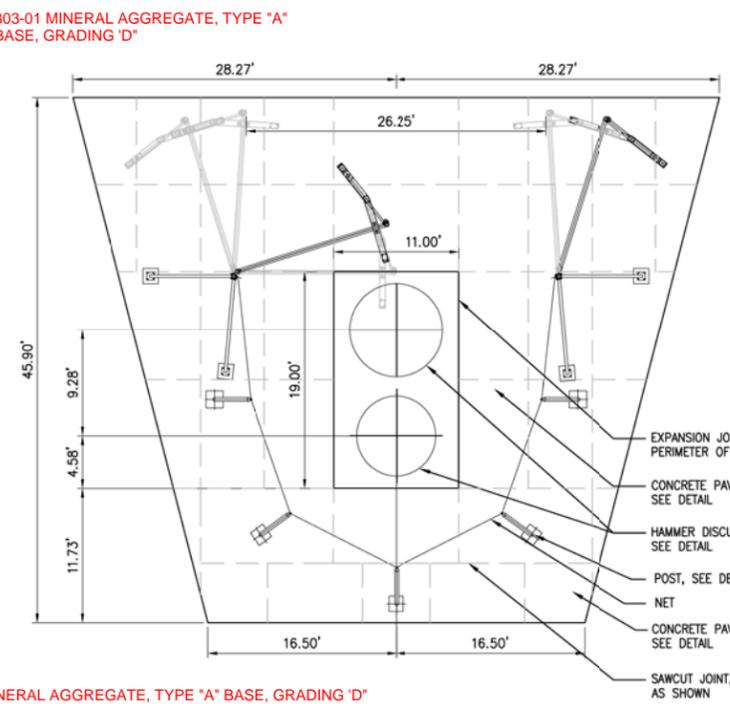
1 HAMMER/DISCUS CIRCLE - SECTION
 SCALE: NTS

NOTE:
 1. ALL DRAWINGS DEPICTING IN-GROUND EQUIPMENTS ARE FOR BIDDING ONLY. DIMENSION SHOWN ARE APPROXIMATE. REFER TO SHOP DRAWINGS FOR INSTALLATION DIMENSIONS AND INSTRUCTIONS.



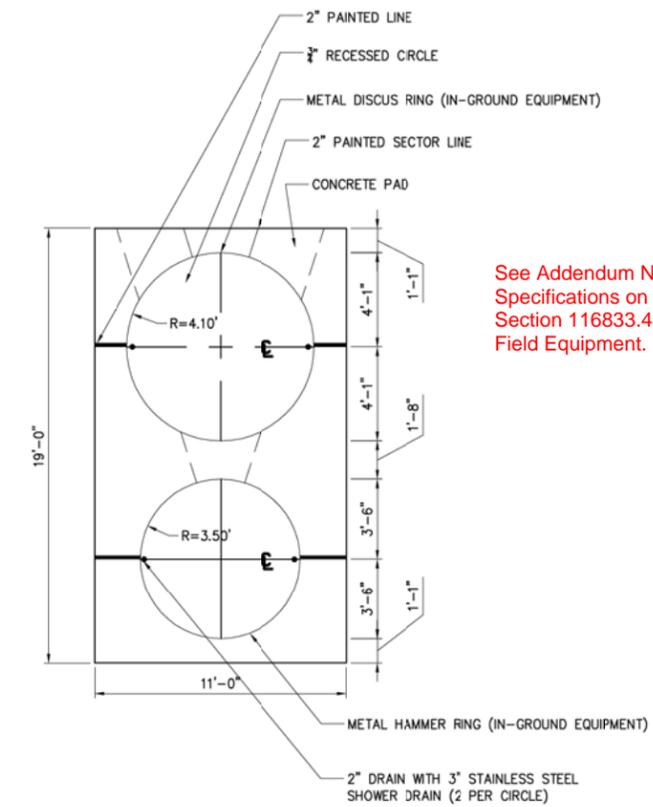
4 HAMMER/DISCUS CAGE POSTS - SECTION
 SCALE: NTS

NOTES:
 1. ALL DRAWINGS DEPICTING IN-GROUND EQUIPMENTS ARE FOR INFORMATION ONLY. REFER TO VENDOR DRAWINGS FOR INSTALLATION DIMENSIONS AND INSTRUCTIONS.
 2. CONCRETE PAD TO EXTEND 1' PAST CAGE DOOR WHEELS OR WHEEL STOP PIN, WHICHEVER IS GREATER.
 3. DRILL HOLES FOR CAGE DOOR STOP PINS AFTER LINE MARKINGS HAVE BEEN PAINTED AT THE FOLLOWING LOCATIONS (NCAA RULE 1 - SECTION 9 - ARTICLE 1):
 3.1. DOOR TOTALLY CLOSED
 3.2. DOOR PARALLEL TO SECTOR LINE
 3.3. DOOR PERPENDICULAR TO SECTOR LINE, BUT NOT EXTENDING MORE THAN 1.5M (4.92') INTO THE SECTOR
 3.4. TO PROVIDE AN 8M OPENING CENTERED ON THE THROW CIRCLES WITH BOTH DOORS OPEN.



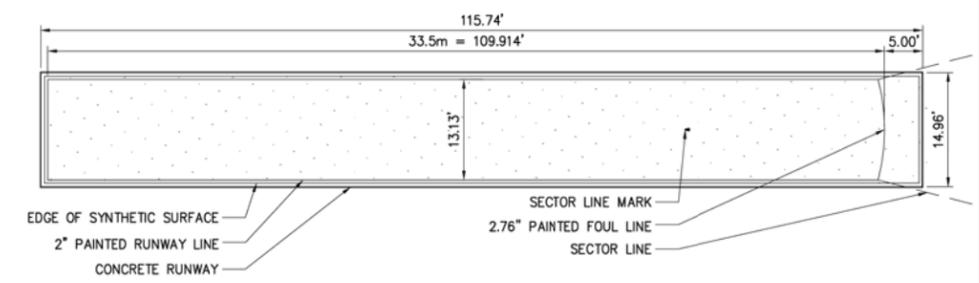
2 HAMMER/DISCUS PAD AND CAGE LAYOUT - PLAN
 SCALE: NTS

See Addendum No. 1 for Specifications for the Hammer / Discus Cage, Section 116833.43 Track and Field Equipment.

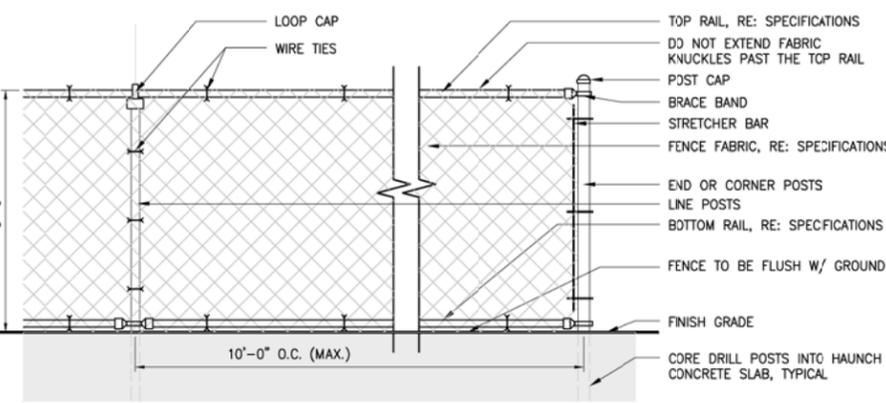


3 HAMMER/DISCUS PAD AND CIRCLE LAYOUT - PLAN
 SCALE: NTS

See Addendum No. 1 For Specifications on Metal Rings. Section 116833.43 - Track and Field Equipment.

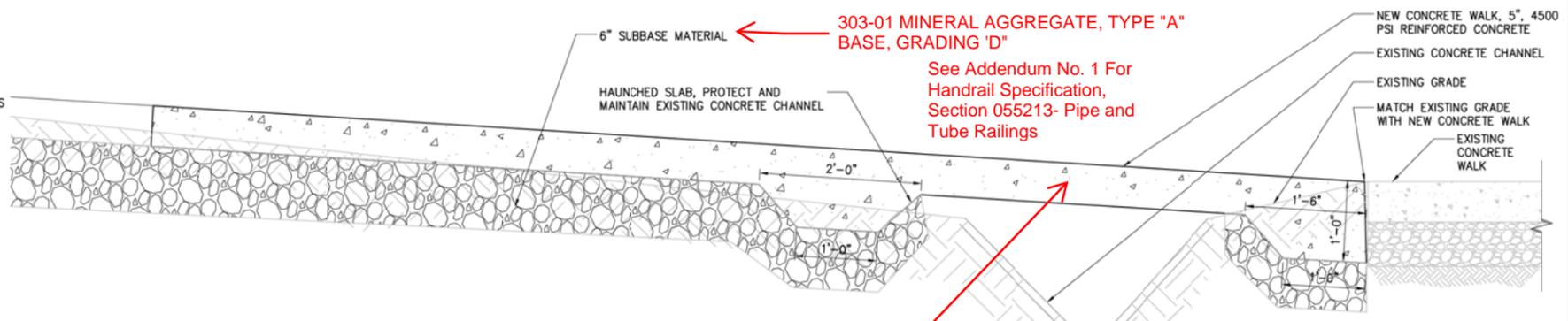


5 JAVELIN RUNWAY LAYOUT - PLAN
 SCALE: NTS



6 CHAIN LINK FENCE - SECTION
 SCALE: NTS

NOTES:
 1. SEE SPECIFICATIONS FOR POST AND RAIL SIZING.
 2. ALL POST FOOTINGS SHALL BE PER SPECIFICATIONS.
 3. SEE SPECIFICATIONS FOR FENCE FINISH REQUIREMENTS.
 4. HOLD DOWN TOP OF FOOTING BELOW WALK (TYP.).



7 CONCRETE WALK AT CONCRETE CHANNEL - SECTION
 SCALE: NTS

See Addendum No. 1 For Reinforcing Steel In The Span Section, Drawing SK-1, Dated 9/6/16

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