

## ADDENDUM #1

DATE: September 19, 2025

### TO CONTRACT DOCUMENTS ENTITLED:

PROJECT MANUAL FOR:

AUDREY J. WALTON STADIUM  
TRACK AND SOCCER SURFACE UPGRADE

PROJECT NUMBER: CP252172

PREPARED FOR:

THE CURATORS OF THE UNIVERSITY OF  
MISSOURI

CONSULTANT:

Crockett Engineering Consultants  
1000 W. Nifong Blvd, Bldg #1  
Columbia, Missouri 65203

Drawings and Specifications for the above noted project and the work covered thereby are herein modified as follows, and except as set forth herein, otherwise remain unchanged and in full force and effect:

### GENERAL INFORMATION:

1. Comment: Please confirm the pavilion foundations are in the base bid and not Alternate 3 as noted on CE 0.0 and S200.

The cover page (CE 0.0) has been revised to remove Alternate 3 – Pavillion from the Alternatives section. The Deferred Submittals section has also been removed on same sheet as has the Special Inspections. Sheet S100 has been updated to remove any notes and details pertaining to any pavilion structure. Sheet S200 has been updated to show only the proposed footings that shall be included in the Base Bid. The location of the footings as shown on Sheet CE 6.0 and labeled as Note “T” remain the same.

2. Comment: Please clarify what aerifications will be required.

A minimum of two aerifications will be required. If the sod is grown in a non predominantly sand material, the sod shall either be washed or two additional aerifications with topdressings will be required at no additional cost to the Owner.

3. Comment: Will soil stabilization be needed under the soccer fields?

No soil stabilization is being proposed under the soccer field. As noted on Sheet CE 3.0, soil stabilization shall be included under all track and field events pavement. This is to include all pavement (sidewalks, etc.) around the tract and adjacent to the field events as well.

4. Comment: What water jump pit form is being specified?

See revised Note “M” on Sheet CE 6.0 with regards to the water jump pit form model number for the steeplechase. The Equipment and Supply Matrix on same page has been updated with same information.

5. Comment: The jump pit systems include one aluminum cover per the paragraph description. Do we need to add 2 more for the other 2 pits?

Note “F” on Sheet CE 6.0 is correct. Each pit shall receive a mesh cover but only one aluminum cover shall be supplied.

6. Comment: Does the access road need to be removed after construction? What needs to be done to the softball field after construction? How long can the softball field be used and are there any intermittent periods of use for the softball field?

The temporary access road across the softball field, as noted on Sheet CE 2.1, Note “C” will need to be removed by the contractor at the end of the project. The areas used for this access road, as well as the surrounding area used for the laydown area, shall be fine graded by the contractor with all granular material removed. The contractor does not need to seed or mulch these areas. Access through and use of the former softball field shall be available to the contractor throughout construction. There are no non-usable dates for this portion of the project.

7. Comment: Will the University require the 1 year warranty to cover conditions from a harsh winter?

No. The University will require the 1 year warranty to cover items such as diseases and pest infestations. The University will not require the warranty to cover items due to wear caused by playing on the field and harsh winter conditions.

8. Comment: Does the skinny field goal post get demoed on the soccer practice field? If it does not get demoed, what is the elevation of the base of the goal post?

The goal post on the practice field (Alternate #1) shall remain in place during construction. The proposed grade vs. the existing grade is close to the same so the post will not need to be adjusted vertically.

9. Comment: If Alternate #1 is accepted, what is the number of additional days given to the project?

Per Division 1-E.2.d and e – The soccer playing field will need to be completed by June 26, 2026. If Alternate 1 is accepted then that portion of the project shall be completed by July 20, 2026. Regardless of Alternate 1 being accepted or not, the main soccer field completion date does not change.

10. Comment: Please confirm the quantity and locations of the brick columns as detailed on Sheet CE 7.3 and called out on Sheet CE 6.0, Note J. Note J is not called out on the plan.

There shall be 5 new brick and stone columns on this project. This is described in Note "J" on Sheet CE 6.0. The location is as identified on Sheet 6.0 at the southeast corner of the site. The naming arch above the entrance columns shall be reused and placed in/above the new entrance columns.

11. Comment: Please provide details for the wrought iron fence and gate called out on Sheet CE 6.0, Note L. Can existing fence be salvaged and reused for the new fencing?

No details for the new fence have been provided. Contractor shall supply new fencing to match the material and style of existing fencing. Existing fencing may not be reused with the exception of the naming arch above the entrance columns.

12. Comment: Please provide details for the pole mounted replay camera base and footing called out on CE 4.0, Note P.

A detail has been added to Sheet S200. Note P on Sheet CE4.0 has been revised to show 3 relocated bases are needed rather than 4.

13. Comment: If the asphalt is installed too high, can it be ground down to reach proper elevation?

This can be done if the thickness of the asphalt maintains the required depth. Also, any grinding of the asphalt and surface treatment must be approved by the Mondo representative as well as the University prior to any modification.

14. Comment: Is an ASBA Certified Field Builder required to bid this job?

A certified field builder is preferred. A non-certified field builder will be required to meet additional criteria as outlined in the specifications.

15. Comment: Does the University have a preferred sod supplier?

No. Sod supplier will be the responsibility of the contractor.

16. Comment: If the sod shows up dormant due to a harsh winter, will it be rejected?

It is the contractor's responsibility to monitor the sod farm throughout the construction period. Quality issues with the sod will be handled by the Owner at that time.

17. Comment: If thick cut sod is necessary to meet the schedule due to weather restrictions prior to harvesting, is the University willing to pay the upcharge?

There is no commitment by the University to do this at this time and it will be monitored during construction.

18. Comment: Would the university be able to help with the grow in process?

The University is willing to help with the grow in process to a limited extent. This would depend on what the ask is from the contractor and how much time is being asked for.

19. Is an HDPE fused irrigation system acceptable in lieu of the specified PVC system.

Yes. If this is proposed, the contractor shall submit shop drawings illustrating that all fittings and pipe will perform as well or better as the specified PVC system, including pressure loss and flow. Pipe will be HDPE DR11.

20. Comment: Is washed sod required? In Field Section 2.5 c,d is says washed sod prior of shipping, or washed sod on site.

No, washed sod is not required. Section 2.5 requires one of items a, b, c, or d to take place. So washed sod is not required if one of items a or b takes place.

21. Comment: Are you able to point out what fences need to be plate mounted vs. embedded on the plans?

All fence posts shall be installed per the details with concrete foundations. No plate mounted posts are proposed.

22. Comment: Should item J be added to CE 2.0 at the pavilion a the northwest end of the track?

Yes, Note "J" on Sheet CE 2.0 shall be added at the northwest portion of the project at the existing pavilion.

23. Comment: We couldn't identify the final grade plan or notes within the plan for the soccer field, Alternate 1, please clarify.

The final grades are shown on Sheet CE 8.0 and label around the field with the elevation followed by "FG" (finished grade). The existing grades are shown per the contours on the same plan.

24. Comment: Where are the stopping points for Note H on CE 2.0 at the north area of the track?

Each section of pipe noted as "H" on CE 2.0 is to be removed. If the section of pipe does not have the notation on it, it shall remain in place.

25. Do brick walls and landscape area walls at the southern perimeter of the "limits of



disturbance” need to be removed?

No. The only brick walls and landscaped walls to be removed are shown on Sheet 2.0 under Note “L”.

26. Comment: Is the northwest corner of the track area that is labeled “G”, labeled incorrectly, and should read “C”?

Yes. This label should read ”C”. This will be revised on the plans accordingly.

27. Comment: Is the shot put landing area part of the track subcontractor scope?

That is between the general contractor and their subcontractors.

28. Comment: Should the foundations for the pavilion that is located at the end of the northwest portion of the track, be shown on sheet CE 6.0?

Yes. The foundations for the future pavilion, as called out by Note “T” on Sheet CE 6.0, should be shown as presented as they are a part of the Base Bid.

29. Can you confirm the start and stop points for fence note “I” near the front of the bleachers on CE 6.0?

Note “I” refers to the gates in the fence, but I believe you are referring to Note “H” on same page. The new fence would start at the proposed gates (Note “I”) at the bleachers and then run north and south of the bleachers as depicted on Sheet CE 6.0. The north run would terminate and the end of the track chute and the south run would terminate around the track chute close to lane 8 of the curved portion of the track.

30. Comment: Does the Alt 1 soccer practice field require a growth blanket?

Yes. Please refer to Note 3 on Sheet CE 8.0 that references the growth blanket and roller system.

31. Comment: The sand in the long jump says Waupaca sand for spec, the detail on the plans says washed sand. Can this be clarified?

Yes, the sand for the jump pits shall be Waupaca sand.

32. Comment: Communication boxes (turf and synth track) and water boxes with clamps for quick connect water valve. Did not see these on the track and field list.

The following boxes provided by UCS are being specified for this project. Contractor can use another manufacturer upon approval by Owner and engineer.

Model #712-1150 Communication Box- Synthetic Surface

Model #712-1260 Communication Box- w/ Grass Kit

Model #712-1145-SD Quick Valve Box- w/ Clamps for Quick Connect Water Valve- Synthetic Surface

Model #712-1270-SD-GK Quick Valve Box- w/ Clamps for Quick Connect Water Valve- w/ Grass Kit

33. Contractors are notified that all installations of the Mondo track surface must be coordinated through the Owner's representatives and Kiefer USA prior to any installation of said surface. The contact for Kiefer USA will be Ron DeMeyer (816) 507-1115, [ron@kieferusa.com](mailto:ron@kieferusa.com). In addition to this information being given here, it has been added under the Special Scheduling Requirements section on the revised Bid Form.
34. Contractors are advised that notes R-W are misaligned in the note section. These have been revised. Particular attention given to note R as it has been revised slightly.
35. Contractors are advised that Note X has been added to Sheet CE4.0 pertaining to the adjustment of the water valve boxes.
36. Contractors are advised that Note T on Sheet CE4.0 has been removed. The note is listed as intentionally left blank. The panel will remain in its current location now.
37. Comment: Soil Blend: Is there a desired mix ratio for the sand/peat soil mixture? We have some vendors asking if there is a specification or if the requirement is to just meet the listed performance specification.

They are required to do testing to meet the performance requirements.

38. Alternate Practice Field: Should the practice field be constructed the same as the base bid field (4" pea gravel, 10" root zone mix) with irrigation?

Yes, same construction as the game field.

39. Comment: Confirm requirements of Specification 32 2910-1.5 – Submittals Required with Bid.
- Item A can be included, but it maybe difficult to procure all that information from potential bidders to submit with a bid.
  - Item B – bidders will not due submittals/shop drawings before award of a contract
  - Item C – This schedule would need to be fully coordinated with other activities so a submission with the bid isn't realistic.

All items in the sections need to a part of the contractor's qualifications. The submittals/shop drawings and schedule would be provided after award of the contract.

40. Schedule: I see that the start date is listed as November 3<sup>rd</sup> with track completion August 14<sup>th</sup> and soccer completion June 26<sup>th</sup>. I also see that we have 210 days to complete which

would put us at June 1<sup>st</sup> for completion. Can you verify if the 210 days or the above mentioned dates should take precedence for the required completion?

The dates of June 26, 2026 for the completion of the soccer field and August 14, 2026 for the track shall be the completion dates for the project. The days to complete have been revised.

#### SPECIFICATION CHANGES:

1. Division 1, Section 1-A – Bid for Lump Sum Contract. Revision made to add asphalt contractor to the list to proposed subcontractors.
2. Division 1, Section 1-A – Bid for Lump Sum Contract. Revision made to Project Completion section as it pertains to number of day and dates for completion.
3. Division 1, Section 1-E - Special Conditions. Revision made to add note under Special Scheduling detailing contractor's responsibility in coordinating the installation of the Mondo track surface with the Mondo supplier and Owner.

#### DRAWING CHANGES:

1. Sheet CE 0.0 – Removal of Alternate 3 and other information (special inspections) pertaining to the future pavilion.
2. Sheet CE 2.0 – The addition of a “J” label on the existing pavilion at the northwest corner of the site. Addition of construction fencing on former softball field.
3. Sheet CE 2.1 – Addition of construction fencing on former softball field.
4. Sheet CE 4.0 – The realignment of notes R-W in the note section. The elimination of Note T (left blank now) . The addition of Note X regarding adjustment of water valve risers. The revision of Note P reducing the number of bases for the relocated poles.
5. Sheet CE 6.0 – The addition of the water jump pit form information. This was added to note M as well as the Equipment and Supply Matrix. A label at the northwest corner of the track was revised from “G” to “C”.
6. Sheet CE 8.1 – The location of the existing goal post has been added to the plan.
7. Sheets CE1.0, CE2.0, CE3.0, CE4.0, CE6.0, and CE6.1 have been revised to show the existing broadcast panel, fiber line, and electric service.
8. Sheet CE 8.0 – Revised to show the existing field goal post.
9. Sheet S100 - Removed unneeded specifications and updated special inspections
10. Sheet S200 – Updated plan dimensions, added plan note, updated detail F10, and added Typ. Camera Pole Foundation Detail
11. Sheet EP 101 – The addition of 4” PVC sleeve under the field events.

END OF ADDENDUM #1

SECTION 1.A

BID FOR LUMP SUM CONTRACT

Date: \_\_\_\_\_

BID OF \_\_\_\_\_  
(hereinafter called "Bidder") a corporation\* organized and existing under laws of the State of \_\_\_\_\_

\_\_\_\_\_ ,  
a partnership\* consisting of \_\_\_\_\_ ,  
an individual\* trading as \_\_\_\_\_ ,

\_\_\_\_\_ .  
a joint venture\* consisting of \_\_\_\_\_ .

\*Insert Corporation(s), partnership or individual, as applicable.

TO: Curators of the University of Missouri  
c/o Associate Vice Chancellor – Facilities  
Room L100, General Services Building  
University of Missouri  
Columbia, Missouri 65211

1. Bidder, in compliance with invitation for bids for construction work in accordance with Drawings and Specifications prepared by Crockett Engineering Consultants, entitled Walton Stadium Track and Soccer Stadium Upgrade, project number CP252172, dated September 8, 2025 having examined Contract Documents and site of proposed work, and being familiar with all conditions pertaining to construction of proposed project, including availability of materials and labor, hereby proposes to furnish all labor, materials and supplies to construct project in accordance with Contract Documents, within time set forth herein at prices stated below. Prices shall cover all expenses, including taxes not covered by the University of Missouri's tax exemption status, incurred in performing work required under Contract documents, of which this Bid is a part.

Bidder acknowledges receipt of following addenda:

Addendum No. _____	Dated _____
Addendum No. _____	Dated _____
Addendum No. _____	Dated _____

2. In the following Bid(s), amount (s) shall be written in both words and figures. In case of discrepancy between words and figures, words shall govern.

## SECTION 1.E

### SPECIAL CONDITIONS

#### 1. DEFINITIONS

##### a. “Drawings”

Drawings referred to in and accompany Project Manual consist of Drawings prepared by and bearing the name of the below defined Architect, bearing Date of September 8, 2025, entitled “Walton Stadium Track and Soccer Surface Upgrade”, project number CP251272.

a. Civil Engineer/Project Lead  
Crockett Engineering Consultants, LLC  
Tim D. Crockett, PE  
1000 W. Nifong Blvd., Bldg. 1  
Columbia, MO 65203  
573-447-0292

b. Mechanical & Electrical Engineer  
J-Squared Engineering  
James P. Watson, PE  
2400 Bluff Creek Drive, Suite 101  
Columbia, MO 65201  
573-234-4492

c. Structural Engineer  
Crockett Engineering Consultants, LLC  
Gregory L. Linneman, PE  
1000 W. Nifong Blvd., Bldg. 1  
Columbia, MO 65203  
573-447-0292

d. Landscape Architect  
VSR Design  
Vance Rzepka, PLA  
913-484-5211

e. Other Definitions: See Article 1., General Conditions

## 2. SPECIAL SCHEDULING REQUIREMENTS

- a. Normal working hours are defined as weekdays between the hours of 7:00 AM and 5:00 PM. Access and work efforts outside of these normal working hours to be coordinated with the owner's representative.
- b. Building Shutdown and Outages will need to be scheduled with the Owner's Representative(s) and Mizzou Athletics.
- c. Construction contractor may not begin work onsite in the designated areas until the conclusion of the Fall Soccer Season, November 3, 2025. Contractor will need to start submission of submittals upon Notice to Proceed.
- d. Work for the soccer playing field will need to be completed by June 26, 2026 before the start of the 2026 Mizzou Soccer Season practices. If the work cannot be completed it will need to be discussed with the Owner's Representatives. Work for the soccer practice field will be the second priority of the two turf installation projects.
- e. If work is not completed on the Alternate #1 (if it is accepted) on the soccer practice field by July 20, 2026 coordination between Mizzou Athletics Football and Soccer team camps and practices may need to be coordinated with the Owner's Representatives. If work on the track cannot be substantially completed by the start of the Fall Soccer meets, the track will need to be made safe for game day operations. Work for these activities will need to be coordinated with the Owner's Representative.
- f. Work will need to be coordinate along the pathway between track facility and Taylor Stadium to allow for the Owner to maintain the football practice fields.
- g. Contractors are notified that all installations of the Mondo track surface must be coordinated through the Owner's representatives and Kiefer USA prior to any installation of said surface. The contact for Kiefer USA will be Ron DeMeyer (816) 507-1115, ron@kieferusa.com.

## 3. SCOPE OF WORK

- a. The Contractor shall furnish all labor, materials, tools, equipment necessary for, and incidental to, construction of this project as indicated on the Drawings and specified herein.
- b. Work shall include everything requisite and necessary to finish work properly, notwithstanding that every item of labor or materials or accessories required to make project complete may not be specifically mentioned.

c. General Description of Work:

- (1) Project consists of removal of existing track and soccer field, subbase, underdrains, irrigation and installation of new track and soccer field with association underdrain, irrigation, pavement and associated site improvements.
- (2) Demolition shall consist of removal of existing track surface and subbase, natural turf, underdrains and irrigation.
- (3) Architectural work shall consist of construction of pavilion.
- (4) Structural work shall consist of concrete slab for pavilion.
- (5) Electrical work shall consist of the installation of underground sleeves for future data and fiber cabling, along with the installation of power circuits and convenience receptacles to serve track and timing equipment and scoreboards.

4. LOCATION

- a. Work shall be performed under this Contract on the campus of the University of Missouri – Columbia, at Walton Stadium.

5. NUMBER OF CONSTRUCTION DOCUMENTS

- a. The Owner's Representative will furnish the Contractor a copy of the executed Contract and a complete set of Drawings and Specifications in PDF format.
- b. The contractor may obtain printed sets from the architect at cost of reproduction.
- c. The Owner will furnish explanatory and changed Drawings to the Contractor in PDF format as issued during project.
- d. The Owner will provide electronic data files to the Contractor for their convenience and use in progressing the Work and the preparation of shop drawings or other submittal requirements required for construction of the reference project. The electronic data files shall reflect Construction Documents and Bid Addenda only. These files will be transmitted subject to the following terms and conditions:
  - (1) The Owner makes no representation as to the compatibility of these files with the Contractor's hardware or software.
  - (2) Data contained on these electronic files shall not be used by the Contractor or anyone else for any purpose other than as a convenience in progressing

the Work or in the preparation of shop drawings or other required submittals for the referenced project. Any other use or reuse by the Contractor or by others will be at their own sole risk and without liability or legal exposure to Owner. The Contractor agrees to make no claim and hereby waive, to the fullest extent permitted by law, any claim or cause of action of any nature

against the Owner and its consultants, contractors, agents, employees, and representatives that may arise out of or in connection with the use of the electronic files transmitted.

- (3) Furthermore, the Contractor shall, to the fullest extent permitted by law, indemnify and hold harmless the Owner and its consultants, contractors, agents, employees, and representatives, against all damages, liabilities or costs, including reasonable attorney's fees and defense costs, arising out of or resulting from the use of these electronic files.
- (4) These electronic files are not contract documents. Differences may exist between these electronic files and corresponding hard-copy construction documents. The Owner makes no representation regarding the accuracy or completeness of the electronic files you receive. In the event that a conflict arises between the signed or sealed hard-copy construction documents prepared by the Consultant and the electronic files, the signed and sealed hard-copy construction documents shall govern. The Contractor is responsible for determining if any conflict exists. By use of these electronic files, the Contractor is not relieved of their duty to fully comply with the contract documents.
- (5) Because information presented on the electronic files can be modified, unintentionally or otherwise, the Owner reserves the right to remove all indications of ownership and/or involvement from each electronic display.
- (6) Under no circumstances shall delivery of the electronic files be deemed a sale by the Owner and no warranties are made, either expressed or implied, of merchantability and fitness for any particular purpose. In no event shall the Owner be liable for any loss of profit, or any consequential damages as a result of use or reuse of these electronic files.

## 6. SUBMITTALS

- a. The Contractor shall submit for approval to the Architect, equipment lists and Shop Drawings, as expediently as possible. Failure of the Contractor to submit Shop Drawings in a timely manner will result in the Owner holding back Contractor payments. (See General Conditions)



- b. The material and equipment lists shall be submitted and approved before any material or equipment is purchased and shall be corrected to as-built conditions before the completion of the project.
- c. The Contractor shall submit electronic versions of all required Shop Drawings, material and equipment lists. The Contractor shall upload all Shop Drawings to a secure information sharing website determined by the Owner notifying the Owner and Consultant that these shop drawings are available for review. Each submittal shall have the General Contractors digital stamp affixed to the first page signifying their review and acceptance. Review comments, approvals, and rejections will be posted on this same site with notification to the contractor. Submittals requiring a professional seal shall be submitted hard copy with a manual seal affixed.
  - (1) The Contractor shall identify each submittal item with the following:
    - (a) Project Title and Locations
    - (b) Project Number
    - (c) Supplier's Name
    - (d) Manufacturer's Name
    - (e) Contract Specification Section and Article Number
    - (f) Contract Drawing Number
    - (g) Acrobat File Name: Spec Section\_Times Submitted\_Spec Title:  
033000\_01-Cast in Place Concrete.pdf
  - (2) Reference the accompanying Shop Drawing and Submittal Log at the end of this section (1.E.4) for the required submittal information.
- d. The Contractor shall submit to the Architect four (4) bound copies of all required Operating Instructions and Service Manuals for the Architect's and the Owner's sole use prior to completing 50% of the adjusted contract. Payments beyond 50% of the contract amount may be withheld until all Operating Instructions and Service Manuals are received as referenced in the accompanying Operating Instructions and Service Manual Log at the end of this section (1.E.5).
- e. The Contractor shall submit to the Owner's Representative all items referenced in the accompanying Closeout Log (1.E.6) within 30 days following substantial completion of the work. The Owner's Representative will maintain the closeout log and include as an agenda item at all coordination meetings.

## 7. USE OF PREMISES

- a. Access: Access to construction site shall be as indicated on the drawings and as directed by the Owner's Representative.
- b. Parking:
  - (1) The Owner will issue Contractor two (2) service vehicle parking permits for use in University Parking lot RP-8/U, in the South Lot. The permits will be

issued at no cost to the contractor up to the contract completion date. After the contract completion date, the permits will be re-issued on an as available basis at the contractors' expense. These permits are to be used for general contractor or subcontractor owned and labeled vehicles only. Personal

vehicles are prohibited from use of these permits. Violation of this requirement may result in ticketing and/or towing at the vehicle owner's expense and suspension of progress payments.

- (2) Parking Lot RP-8/U is designated as MU Athletics Donor Parking during the 2026 Mizzou Football season. Parking within these lots will not be allowed on a scheduled home game as coordinated with the Owner's Representatives
- (3) Parking of personal vehicles within project access/lay down/staging areas is prohibited. Violation of this requirement may result in ticketing and/or towing at the vehicle owner's expense and suspension of progress payments.
- (4) Parking or driving on sidewalks, landscaped areas, within fire and service lanes or generally in areas not designated for vehicular traffic is prohibited except as allowed in the contract documents. Violation of this requirement may result in ticketing and/or towing at the vehicle owner's expense and suspension of progress payments.
- (5) Sidewalk(s) and Hardscape – Parking/driving on hardscapes is strictly prohibited unless specifically directed by the Owner's Representative through the MU sidewalk permitting process. Restricted use permits will be limited to activities that are constrained by an absolute need to access from a sidewalk. Such activities shall be considered the exception and not the norm. Adequate signage, fencing and alternate routes must be provided in the immediate and adjacent areas.
- (6) Free parking for contractor employees is available in the Ashland Road Contractor lot on an as available basis. This space is for use by contractor employees for parking their personal vehicles only and is not to be used for staging or storage.
- (7) Vendor Permits may be purchased by contractor management personnel on an as available basis by contacting the Parking and Transportation office in the General Services Building. These permits will allow contractor management personnel to park in various University lots while conducting business on University construction projects.

- (8) Temporary University parking permits may be purchased by contractor employees for use with their personal vehicles on an as available basis by contacting the Parking and Transportation office in the General Services Building.
  - (9) Conley Avenue between Missouri Avenue and University Avenue and Hitt Street between University Avenue and the Memorial Union are designated for pedestrian use only during the work week between the hours of 8:15 AM and 3:45 PM. Unless otherwise indicated in the contract documents, this area is strictly off limits to vehicular traffic without authorization from the Owner's Representative.
- c. Storage of materials: The Contractor shall store all materials within project limits. The Contractor shall confine apparatus, materials, and operation of workers to location established by the Owner's Representative. The Contractor shall not unreasonably encumber premises with materials. In addition, storage trailer locations may be available within 1-1/2 miles of project site as directed by the Owner's Representative. Storage trailer locations shall be subject to approval by the Owner's Representative and are available to the Contractor without cost.
  - d. Utilities: Drinking water, water required to carry on work, and 120-volt electrical power required for small tool operation may be obtained without cost to the Contractor from existing utilities at locations designated by the Owner's Representative. Provisions for obtaining power, including temporary extensions, shall be furnished, and maintained by the Contractor. Upon completion of work such extensions shall be removed and any damage caused by use of such extensions shall be repaired to satisfaction of the Owner's Representative, at no cost to the Owner.
  - e. Restroom: The Contractor shall provide and maintain, in a sanitary condition, chemical type portable toilet facilities at work site for use by his personnel. Toilets and toilet location shall be subject to approval by the Owner's Representative.
  - f. Smoking is prohibited at the University of Missouri and all properties owned, operated, leased or controlled by the University of Missouri. Violation of the policy is defined as the use of any tobacco or marijuana products, including e-cigarettes, cigarettes, and vaping.
  - g. Care of Project Work Site: The contractor shall be responsible for maintaining the construction site in a reasonably neat and orderly condition by regular cleaning and mowing of the premises as determined by the Owner's Representative.
  - h. Discharge to Sewer Request: The University of Missouri's MS4 permit and NPDES Storm Water Discharge Permits along with the City of Columbia's POTW Operating Permit as well as local ordinances, and state and federal environmental regulations prohibit hazardous materials from being disposed into either the storm water or sanitary sewer systems. Unless specifically approved, all chemical

products such as paints, dyes, lawn care products, maintenance products, and oil is prohibited from drain disposal. Any product, including contaminated water, being discarded into the storm water or sanitary sewer systems requires written approval from the Owner through a formal “Discharge to Sewer Request” form obtained at [Discharge to Sewer Request Form](#). The contractor should submit the form to the Owner’s Representative, not to the Department of Environmental Health and Safety as the form indicates.

- i. All concrete waste material including washout water shall be totally contained and removed from the Owner’s property.
- j. Artifacts Found During Construction: Contractor shall immediately notify the Owner’s Representative when artifacts are uncovered or found during the demolition or construction process. Artifacts include, but are not limited to, tools, drawings (construction or other), photographs, books and other objects/devices which may hold historical importance/significance. Do not remove or disturb the object(s) in question. Artifacts are not considered part of demolished materials and shall remain the property of the University of Missouri.
- k. “Permit Required Confined Space” Entry Communication and Coordination

(See OSHA 1926 subpart aa – Construction Confined Space for the definition of “permit required confined spaces” - Note: OSHA does not apply to the University. However, the University will provide a list of all known “permit required confined spaces”)

There are no known “permit required confined spaces” within the project limits. Each contractor shall conduct a survey to confirm whether or not any confined spaces exist within the project limits. It is incumbent upon each contractor to list all “permit required spaces”.

The Contractor shall notify the Owner’s Representative if 1) conditions change resulting in a non-permit required confined space being reclassified to a “permit required confined space” after evaluation of the space by a competent person; 2) a space previously thought to be non-permit required space is classified as a “permit required confined space”; or 3) during the course of construction a “permit required confined space” is created after evaluation by a competent person.

The Contractor shall submit to the Owner’s Representative a copy of the cancelled confined space entry permit and a written report summarizing the permit space program followed and all hazards confronted or created during entry operations. This information shall be submitted within one week of cancelling the permit.

## 8 PROTECTION OF OWNER’S PROPERTY

- a. The Contractor shall be responsible for repair of damage to building exterior and interior, drives, curbs, streets, walks, grass, shrubbery and trees, which was caused

by workmen or equipment employed during progress of work. All such repairs shall be made to satisfaction of the Owner's Representative, at no cost to the Owner, or reimburse the Owner if the Owner elects to make repairs. For landscape damage, the Owners shall make such repairs. Compensation for these repairs shall be determined by the Owner's Representative using the "Valuation of Landscape Trees, Shrubs, and other Plants" as published by the International Society of Arboriculture, as last revised.

b. Construction Project Fencing:

- (1) Fencing requirements, as indicated on Drawings, shall be constructed of 9 or 11-gauge chain link not less than six (6) feet in height and not more than 2-inch mesh with posts spaced not more than ten (10) feet apart and all corner and gate posts imbedded in concrete. All other posts shall be sufficiently secured in ground to maintain proper and adequate support of fence. Fenced in area shall have at least two (2) access gates and all gates shall be lockable.
- (2) Fence screening fabric shall be used on all perimeter fencing. Fabric shall be tiger striped in color, full height of the project fence, securely attached and properly maintained throughout the duration of the project.
- (3) Project worksite shall be kept continuously protected with, at minimum, a temporary portable fence constructed of woven wire or plastic woven fencing not less than five (5) feet in height and supported by metal tee posts spaced not more than ten (10) feet apart and imbedded in five (5) gallon buckets of concrete or an equivalent method of support. In lieu of five-gallon buckets of concrete, metal posts may be driven into ground or asphalt. Fencing shall have reflective devices, such as, tape, ribbon, and/or be painted in a bright fluorescent color. Portions of fence shall be reinstalled when work activities cease and during all non-work periods.
- (4) Using existing landmarks, lamp posts, trees or other Owner property for support of fencing is strictly prohibited unless a written waiver is obtained from Owner's Representative.
- (5) Use of ribbon, snow fence, chicken wire, rope, and wooden barricades as fencing is prohibited.
- (6) Fencing shall be maintained in an "as-installed" condition throughout the life of the project.
- (7) The Contractor may use used fencing provided it is in good condition and is satisfactory to the Owner's Representative.

c. Preserving and Protecting Existing Vegetation:

(1) Protection and compensation for damages:

- (a) Trees and shrubs within work area designated to remain shall be protected from damage during construction by fixed chain link fencing or armoring as indicated on Drawings or specified herein.

Plant protection devices shall be installed before work has begun and shall be maintained for duration of work unless otherwise directed by Owner's Representative.

- (b) In the event that damage(s) to the Owner's trees, shrubs or vegetation occurs as a result of the Contractor's unauthorized operations, the Contractor shall pay or allow to the Owner compensation for said damage(s). Compensation shall be determined by the Owner's Representative using the "Valuation of Landscape Trees, Shrubs, and other Plants" as published by the International Society of Arboriculture, as last revised.

- (2) To prevent compaction of soil over tree roots, vehicles or equipment shall not at any time park or travel over, nor shall any materials be stored within drip line of trees designated to remain.
- (3) Owner's Representative will stop work immediately when proper measures are not being employed to protect trees and shrubs. Contractor will be notified to resume work after required protection measures are implemented.
- (4) Removal and/or pruning of select landscape materials shall be performed by MU Landscape Services department.

9. SUBSTITUTIONS AND EQUALS

- a. Substitutions and equals are defined in Article 3 of the General Conditions.
- b. If the Architect and Owner approve a proposed substitution prior to receipt of Bids, such approval will be set forth in an Addendum. Bidders shall not rely upon approval made in any other manner.

10. CODES AND STANDARDS

- a. The Contractor shall comply with applicable codes and standards as listed in the General Conditions.

11. PERMITS

- a. The Owner will secure and pay for specific necessary approvals, easements,

assessments, and charges required for construction, use or occupancy of permanent structures, or for permanent changes in existing facilities except as noted in Article 3.2 of the General Conditions.

- b. Before commencement of Boilers, Water Heaters or Pressure Vessels the Contractor must obtain an installation permit from the State of Missouri, Division of Fire Safety, Boiler and Pressure Unit as required by 11 CSR 40-2.010 through 11 CSR 30-2.065. Their permit applications are available at <https://dfs.dps.mo.gov/programs/bpv/>.

## 12. SPECIALTIES

- a. Owner furnished topsoil: The Owner will place the topsoil and provide final grade. The contractor shall rough grade to the following specifications:
  - (1) The sub-grade is to be left at minus six inches (6") in all areas unless indicated otherwise. All planting bed sub-grades are to be left a minus eighteen inches (18"). The contractor is to remove all deleterious material from the sub-grade prior to placing topsoil. All subgrade areas shall contain at least 6" of subsoil, (ie. cover clean rock backfilled areas). All subgrade areas shall be "ripped" a minimum of 6" deep and a maximum of 12" apart in opposite directions with minimal tire traffic to follow. All exposed deleterious material and unacceptable rock shall be removed.
  - (2) The contractor shall adjust all yard boxes valve boxes, pull boxes, cleanouts, and manhole lid rings etc. (includes irrigation, sewers, water and electric), to the indicated finish grade.
  - (3) Final plantings will be by the Owner. The Owner will water and maintain all seed, sod and landscaping.
- b. Irrigation System: On new irrigation systems, only Hunter, Toro or Rain Bird products are to be considered.

## 13. PRE-BID INSPECTION

- a. All pre-bid inspections of work areas shall be scheduled with pre-bid inspection guide, telephone: (573) 882-6800

## 14. ROOF CERTIFICATION AND WARRANTY REQUIREMENT

- a. The Contractor shall submit a copy of the University of Missouri Roof System Manufacturer's Certification for each proposed roofing system, within two business days following receipt of bids by the Owner. The Certification shall be submitted to the Owner and the Architect of Record and shall be manually signed by an authorized representative of Manufacturer of each proposed roofing system. Certification shall have original signature.

- b. The Contractor shall submit a sample copy of the Roof Manufacturer's Warranty for each proposed roofing system, within two (2) business days following receipt of bids by the Owner, clearly labeled as "SAMPLE". The sample warranty(s) shall be submitted to the Owner and the Architect of Record.
- c. The Owner and Architect of Record will review both documents for compliance with the Contract Documents and will notify the Contractor with required modifications.
- d. Within two weeks following final inspection and acceptance of the roofing system(s) by the Owner and the roofing system manufacturer(s), the Contractor shall submit a manually signed standard warranty agreement, in the same form as the sample, provided and executed by the roofing system manufacturer for each roofing system provided. Standard warranty agreement(s) shall be of the duration specified in Division 7.
- e. University of Missouri three (3) year Contractor's Roofing/Flashing/Sheetmetal Guarantee shall be signed by the roofing contractor after final inspection and acceptance of each roofing system by Manufacturer and by Owner.

## 15. MODIFICATIONS TO GENERAL CONDITIONS

### a. General Conditions

- (1) Reference: General Conditions Article 11.2.1 Commercial General Liability.
  - (a) DELETE in the first sentence of 11.2.1: \$2,000,000 per occurrence, \$5,000,000 in general aggregate, \$5,000,000 products and completed operations aggregate and \$1,000,000 personal injury and advertising injury." INSERT "\$2,000,000 per occurrence, \$10,000,000 in general aggregate, \$10,000,000 products and completed operations aggregate and \$1,000,000 personal injury and advertising injury."

## 16. PROJECT SCHEDULING

- a. Contractor Schedule – Contractor is responsible for the schedule, that may be provided with in-house personnel or hired a third-party scheduling consultant. See Contractor Schedule Requirements included in these documents.
- b. Contractor Schedule Requirements
  - (1) GENERAL
    - (a) Time is of the essence for this contract. The time frames spelled out



in this contract are essential to the success of this project. The University understands that effective schedule management, in accordance with the General Conditions and these Special Conditions is necessary to insure to that the critical milestone and end dates spelled out in the contract are achieved.

(b) Related Documents

- (i) Drawings and general provisions of the Contract, including General Conditions' Article 3.18 shall apply to this Section.

(c) Stakeholders

- (i) A Stake holder is anyone with a stake in the outcome of the Project, including the University, the University Department utilizing the facility, the Design Professionals, the Contractor and Subcontractor(s).

(d) Weather

- (i) Contractor acknowledges that there will be days in which work cannot be completed on weather sensitive activities, due to the weather, and that a certain number of these lost days are to be expected under normal weather conditions in Missouri.
- (ii) Rather than speculate as to what comprises "normal" weather at the location of the project, Contractor agrees that it will assume a total of 44 lost days, on weather sensitive activities of critical path work, due to weather over the course of a calendar year and include same in its as planned schedule. For projects of less than a calendar year, lost weather days should be prorated for the months of construction in accordance with the following schedule.
- (iii) Anticipated weather days for allocation/proration only. For projects lasting 12 months or longer, the 44 days per year plus whatever additional months are included will constitute normal weather.

Jan – 5 days	Feb – 5 days	Mar – 4 days	Apr – 4 days
May – 3 days	Jun – 3 days	Jul – 2 days	Aug – 2 days
Sep – 3 days	Oct – 4 days	Nov – 4 days	Dec – 5 days

- (iv) The Contractor shall notify the Owner's Representative via email on the same day a lost weather day occurs and shall maintain a log of weather days to be included in the Narrative described in 2.3.4 herein.

## (2) SCHEDULING PROCESS

- (a) The intent of this section is to ensure that a well-conceived plan, that addresses the milestone and completion dates spelled out in these documents, is developed with input from all stakeholders in the project. Input is limited to all reasonable requests that are consistent with the requirements of the contract documents, and do not prejudice the Contractor's ability to perform its work consistent with the contract documents. Further, the plan must be documented in an understandable format that allows for each stakeholder in the project to understand the plan for the construction and/or renovation contained in the Project.

- (b) Contractor Requirements

- (i) Schedule Development

Contractor shall prepare the Project Schedule using the latest version of Phoenix Project Management scheduling software or other software as approved by the Owner's Representative prior to receipt of bids.

Contractor shall review each major subcontractor's schedule with the sub and obtain the subcontractor's concurrence with the schedule, prior to submitting to the University.

- (ii) Schedule Updates

1. Schedule Updates will be conducted once a month, at a minimum. Actual Start and Finish dates should be recorded regularly during the month. Remaining Duration shall be updated as of the data date, just prior to Contractor's submittal of the updated data.
2. Contractor will copy the previous months schedule and will input update information into the new monthly update version.

3. Contractor will meet with the Owner's Representative to review the draft of the updated schedule. At this meeting, Owner's Representative and Contractor will:
  - (a) Review out of sequence progress, making adjustments as necessary.
  - (b) Add any fragments necessary to describe changes or other impacts to the project schedule and
  - (c) Review the resultant critical and near critical paths to determine any impact of the occurrences encountered over the last month.

(iii) Schedule Narrative

After finalization of the update, the Contractor will prepare a Narrative that describes progress for the month, impacts to the schedule and an assessment as to the Contractor's entitlement to a time extension for occurrences beyond its control during the month and submit in accordance with this Section.

(c) Progress Meetings

- (i) Review the updated schedule at each monthly progress meeting. Payments to the Contractor may be suspended if the progress schedule is not adequately updated to reflect actual conditions.
- (ii) Submit progress schedules to subcontractors to permit coordinating their progress schedules to the general construction work. Include four (4) weeks look ahead schedules to allow subs to focus on critical upcoming work.

(2) CRITICAL PATH METHOD (CPM)

- (a) This Section includes administrative and procedural requirements for the critical path method (CPM) of scheduling and reporting progress of the Work.
- (b) Refer to the General and Special Conditions and the Agreement for definitions and specific dates of Contract Time.
- (c) Critical Path Method (CPM): A method of planning and scheduling a construction project where activities are arranged based on activity

relationships and network calculations determine when activities can be performed and the critical path of the Project.

- (d) Critical Path: The longest continuous chain of activities through the network schedule that establishes the minimum overall project duration.
- (e) Network Diagram: A graphic diagram of a network schedule, showing the activities and activity relationships.
- (f) Activity: A discrete part of a project that can be identified for planning, scheduling, monitoring, and controlling, the construction project. Activities included in a construction schedule consume time and resources.
- (g) Critical activities are activities on the critical path.
- (h) Predecessor activity is an activity that must be completed before a given activity can be started.
- (i) Milestone: A key or critical point in time for reference or measurement.
- (j) Float or Slack Time: The measure of leeway in activity performance. Accumulative float time is not for the exclusive use or benefit of the Owner or Contractor but is a project resource available to both parties as needed to meet contract milestones and the completion date.
- (k) Total float is herein defined as the measure of leeway in starting or completing an activity without adversely affecting the planned project completion date.
- (l) Weather: Adverse weather that is normal for the area must be taken into account in the Contractor's Project Schedule. See 1.(d)(iii), above.
- (m) Force Majeure Event: Any event that delays the project but is beyond the control and/or contractual responsibility of either party.
- (n) Schedule shall include the following, in addition to Contractor's work.
  - (i) Phasing: Provide activity codes in the schedule to show how the sequence of the Work is affected by the following:
    1. Requirements for phased completion and milestone dates.
    2. Work by separate contractors.

3. Work by the Owner
4. Coordination with existing construction.
5. Limitations of continued occupancies.
6. Uninterruptible services.
7. Partial occupancy prior to Substantial Completion.
8. Area Separations: Use Activity Codes to identify each major area of construction for each major portion of the Work. For the purposed of the Article, a “major area” is a story of construction, a separate building, or a similar significant construction element.
9. Required delivery dates for Owner furnished equipment, if applicable
10. Post substantial completion activities and closeout
11. Floor or Level: Use separate activity codes to identify each floor or level.
12. Subcontractor: Use Activity Codes to identify each subcontractor’s work activities.
13. Type Work or Craft: Use Activity Codes to identify the type of work, or craft that will execute each activity.

#### (4) TIME EXTENSION REQUEST

- (a) Refer to General Conditions of the Contract for Construction, Article 4.7 Claims for Additional Time.
- (b) Changes or Other Impacts to the Contractor’s Work Plan. The Owner will consider and evaluate requests for time extensions due to changes or other events beyond the control of the Contractor on a monthly basis only, with the submission of the Contractor’s updated schedule, in conjunction with the monthly application for payment. The Update must include:
  - (i) An activity depicting the event(s) impacting the Contractors work plan shall be added to the CPM schedule, using the actual start date of the impact, along with actually required predecessors and successors.
  - (ii) After the addition of the impact activity(ies), the Contractor will identify subsequent activities on the critical path, with finish to start relationships that can be realistically adjusted to overlap using good, standard construction practice.
    1. If the adjustments above result in a completion date beyond the contract completion date, the delay shall be deemed excusable, and the contract completion

date shall be extended by the number of days indicated by the analysis.

2. Contractor agrees to continue to utilize its best efforts to make up the time caused by the delays. However, the Contractor is not expected to expend costs not contemplated in its contract, in making those efforts.

(c) Questions of compensability of any delays shall be held until the actual completion of the project. If the actual substantial completion date of the project based on excusable delays, excluding allocated weather delays, exceeds the original contract completion date, AND there are no delays that are the responsibility of the contractor to consider, the delays days may be considered for equitable adjustment. In review of time extension requests for compensable days, the Owner will consider the actual number of weather days incurred.

(d) Home office expenditures and staff are NOT compensable.

#### 17. WARRANTY WALKTHROUGH

- a. Contractor shall attend a walk-thru with the Owner at eleven (11) months after acceptance to review and document any warranty items to be addressed as part of the twelve (12) month warranty stated in article 3.1 of the General Conditions.

**END OF SECTION**

3. BID PRICING

a. Base Bid:

The Bidder agrees to furnish all labor, materials, tools, and equipment required to install and perform this project; all as indicated on the Drawings and described in these Specifications for sum of:

---

DOLLARS (\$\_\_\_\_\_).

b. Additive Alternate Bids:

Above Base Bid may be changed in accordance with following Alternate Bids as Owner may elect. Alternates are as described in Section 1.H of Project Manual. Alternates are written in a priority order, but Owner is not required to accept or reject in order listed. This is a one (1) contract project, therefore, Alternates shall be studied by each Bidder to determine effect on Bids of Contractor and each Subcontractor and/or Material supplier.

(1) Additive Alternate No. 1:

Additive Alternate No. 1 shall consist of the removal and replacement of existing Soccer Practice field including all underdrain and irrigations systems. All for sum of:

---

DOLLARS (\$\_\_\_\_\_).

(2) Additive Alternate No. 2:

Additive Alternate No. 2 shall consist of the Sand Pit. All for sum of:

---

\_\_\_\_\_ DOLLARS (\$\_\_\_\_\_).

c. Unit Prices:

(1) For changing specified quantities of work from those indicated by Contract Drawings and Specifications, upon written instructions of Owner, the following Unit Prices shall prevail in accordance with General Conditions.

(2) The following Unit Prices include all labor, overhead and profit, materials, equipment, appliances, bailing, shoring, shoring removal, etc., to cover all work.

(3) The following Unit Prices are required where applicable to particular Base Bid and/or Alternate being submitted.

(4) Only a single Unit Price shall be given and it shall apply for either MORE or LESS work than that indicated on Drawings and called for in

Specifications as indicated to be included in Base Bid and/or Alternates. In the event that more or less units than so indicated is actually furnished, Change Orders will be issued for increased or decreased amounts as approved by the Owner.

- (5) Bidder understands that the Owner will not be liable for any Unit Price or any amount in excess of Base Bid and any Alternate(s) accepted at time of award of Contract, except as expressed in written Change Orders duly executed and delivered by Owner's Representative.
- (6) Unsuitable material. Price shall include all cost to export unsuitable material, haul in suitable material, and provide appropriate compaction and moisture conditioning of replacement material as outlined in Section 31 2000 "Earthmoving"
  - (a) Unsuitable Material,  
Base Bid quantity = 1000 cu. yd. \$\_\_\_\_\_/cu. yd.
- (7) Rock Excavation in addition to soil excavation, as defined in Division 2, per cu. yd.
  - (a) General Excavation,  
Base Bid quantity = 50 cu. yd. \$\_\_\_\_\_/cu. yd.
  - (b) Trenching,  
Base Bid quantity = 50 cu. yd. \$\_\_\_\_\_/cu. yd.

- 4. PROJECT COMPLETION to start Nov. 3<sup>rd</sup>, 2025, Track completed by August 14<sup>th</sup>, 2026, Soccer June 26<sup>th</sup>, 2026
  - a. Contract Period - Contract period begins on the day the Contractor receives unsigned Contract, Performance Bond, Payment Bond, and "Instructions for Execution of Contract, Bonds, and Insurance Certificates." Bidder agrees to complete project within two hundred eighty-five (285) calendar days from receipt of aforementioned documents. Fifteen (15) calendar days have been allocated in construction schedule for receiving aforementioned documents from Bidder.
  - b. Commencement - Contractor agrees to commence work on this project after the "Notice to Proceed" is issued by the Owner. "Notice to Proceed" will be issued within seven (7) calendar days after Owner receives properly prepared and executed Contract documents listed in paragraph 4.a. above.

5. SUBCONTRACTOR LIST:

Bidder hereby certifies that the following subcontractors will be used in performance of Work:



NOTE: Failure to list subcontractors for each category of work identified on this form or listing more than one subcontractor for any category of work without designating the portion of work performed by each shall be grounds for rejection of bid. List name, city, and state of designated subcontractor, for each category of work listed in Bid For Lump Sum Contract. If work within a category will be performed by more than one subcontractor, Bidder shall provide name, city, and state of each subcontractor and specify exact portion of work to be performed by each. If acceptance/non-acceptance of Alternates will affect designation of a subcontractor, Bidder shall provide information, for each affected category, with this bid form. If Bidder intends to perform any designated subcontract work by using Bidder's own employees, then Bidder shall list their own name, city, and state. The bidder may petition the Owner to change a listed subcontractor only within 48 hours of the bid opening. See Information For Bidders Section 16 List of Subcontractors for requirements.

Work to be performed      Subcontractor's Name      City, State \_\_\_\_\_

Track Surface Installer \_\_\_\_\_

Asphalt Track \_\_\_\_\_

Earthwork \_\_\_\_\_

Soccer Natural Turf \_\_\_\_\_

6. MBE/WBE/SDVE PARTICIPATION

- a. SDVE Bonus Preference: A three (3) point bonus preference will be given to a Bidder that is a certified Service-Disabled Veteran Business Enterprise (SDVE) doing business as Missouri firm, corporation, or individual, or that maintains a Missouri office or place of business, as stated in the Information for Bidders. By indicating "Yes" below, the Bidder certifies that the Bidder is certified as an SDVE by the State of Missouri, Office of Administration.

Yes \_\_\_\_\_ No \_\_\_\_\_

- b. MBE/WBE/SDVE Participation Goals: The Bidder shall have a goal of providing participation in the contract of Minority Business Enterprises (MBE) of ten percent (10%) with Women Business Enterprises (WBE) of ten percent (10%), and with Service-Disabled Veteran Business Enterprises (SDVE) of three percent (3%) of the awarded contract price for work to be performed.

- c. Good Faith Effort Waiver: Requests for waiver of these goals due to good faith effort shall be submitted on the attached Application For Waiver form. A determination by the UM Executive Director of Facilities Planning and Development that a good faith effort has not been made by Bidder to achieve above stated goals may result in rejection of the bid.
- d. The undersigned Bidder proposes to perform work with the MBE/WBE/SDVE participation level set forth below. An MBE/WBE/SDVE Compliance Evaluation form shall be submitted with this bid for each MBE/WBE/SDVE subcontractor to be used on this project.

MBE PERCENTAGE PARTICIPATION: \_\_\_\_\_ percent ( \_\_\_\_\_ %)  
 WBE PERCENTAGE PARTICIPATION: \_\_\_\_\_ percent ( \_\_\_\_\_ %)  
 SDVE PERCENTAGE PARTICIPATION: \_\_\_\_\_ percent ( \_\_\_\_\_ %)

## 7. BIDDER'S ACKNOWLEDGMENTS

- a. Bidder declares that he has had an opportunity to examine the site of the work and he has examined Contract Documents therefore; that he has carefully prepared his bid upon the basis thereof; that he has carefully examined and checked bid, materials, equipment and labor required thereunder, cost thereof, and his figures therefore. Bidder hereby states that amount, or amounts, set forth in bid is, or are, correct and that no mistake or error has occurred in bid or in Bidder's computations upon which this bid is based. Bidder agrees that he will make no claim for reformation, modifications, revisions or correction of bid after scheduled closing time for receipt of bids.
- b. Bidder agrees that bid shall not be withdrawn for a period of 90 days after scheduled closing time for receipt of bids.
- c. Bidder understands that Owner reserves right to reject any or all bids and to waive any informalities in bidding.
- d. Accompanying the bid is a bid bond, or a certified check, or an irrevocable letter of credit, or a cashier's check payable without condition to "The Curators of the University of Missouri" which is an amount at least equal to five percent (5%) of amount of largest possible total bid herein submitted, including consideration of Alternates.
- e. Accompanying the bid is a Bidder's Statement of Qualifications. Failure of Bidder to submit the Bidder's Statement of Qualifications with the bid may cause the bid to be rejected. Owner does not maintain Bidder's Statements of Qualifications on file.
- f. It is understood and agreed that bid security of two (2) lowest and responsive

Bidders will be retained until Contract has been executed and an acceptable Performance Bond and Payment Bond has been furnished. It is understood and agreed that if the bid is accepted and the undersigned fails to execute the Contract and furnish acceptable Performance/Payment Bond as required by Contract Documents, accompanying bid security will be realized upon or retained by Owner. Otherwise, the bid security will be returned to the undersigned.

8. BIDDER'S CERTIFICATE

Bidder hereby certifies:

- a. His bid is genuine and is not made in interest of or on behalf of any undisclosed person, firm or corporation, and is not submitted in conformity with any agreement or rules of any group, association or corporation.
- b. He has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid.
- c. He has not solicited or induced any person, firm or corporation to refrain from bidding.
- d. He has not sought by collusion or otherwise to obtain for himself any advantage over any other Bidder or over Owner.
- e. He will not discriminate against any employee or applicant for employment because of race, color, religion, or national origin in connection with performance of work.
- f. By virtue of policy of the Board of Curators, and by virtue of statutory authority, a preference will be given to materials, products, supplies, provisions and all other articles produced, manufactured, mined or grown within the State of Missouri. By virtue of policy of the Board of Curators, preference will also be given to all Missouri firms, corporations, or individuals, all as more fully set forth in "Information For Bidders."

9. BIDDER'S SIGNATURE

Note: All signatures shall be original; not copies, photocopies, stamped, etc.

Authorized Signature	Date

Printed Name	Title
Company Name	
Mailing Address	
City, State, Zip	
Phone No.	Federal Employer ID No.
Fax No.	E-Mail Address
Circle one:    Individual    Partnership    Corporation    Joint Venture	
If a corporation, incorporated under the laws of the State of__	
Licensed to do business in the State of Missouri? __yes __no	

(Each Bidder shall complete bid form by manually signing on the proper signature line above and supplying required information called for in connection with the signature. Information is necessary for proper preparation of the Contract, Performance Bond and Payment Bond. Each Bidder shall supply information called for in accompanying "Bidder's Statement of Qualifications.")

**END OF SECTION**

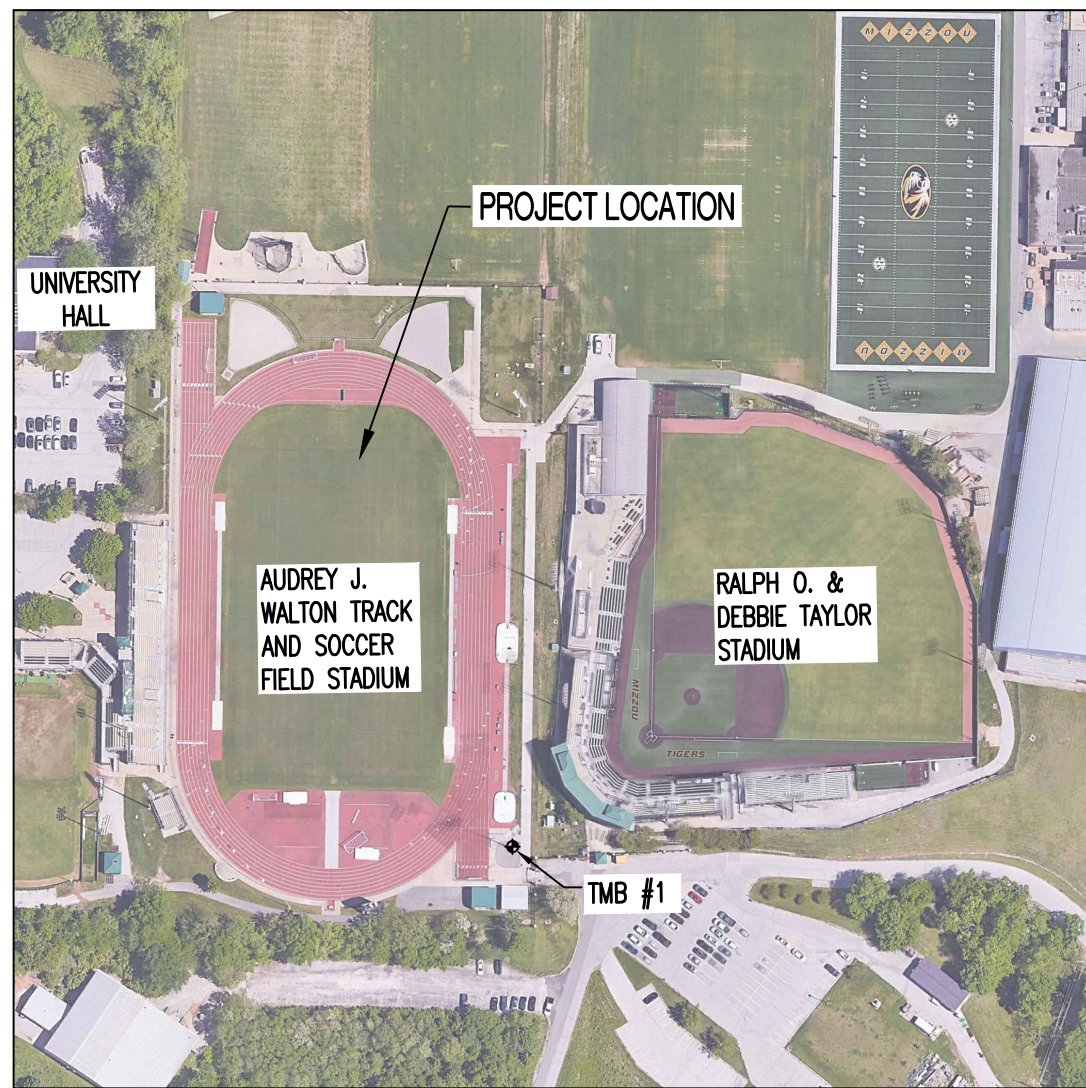




# AUDREY J. WALTON STADIUM TRACK AND SOCCER SURFACE UPGRADE

FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI  
PROJECT NO. CP252172

## LOCATION MAP



## UTILITY COMPANIES:

### LOCATES:

MISSOURI ONE CALL INC.  
1022 B NORTHEAST DRIVE  
JEFFERSON CITY, MO 65109  
1-800-344-7483



### TELEPHONE:

UNIVERSITY OF MISSOURI, DIVISION OF I.T.  
615 LOCUST ST.  
COLUMBIA, MO 65211  
573-882-5000

### CABLE TELEVISION:

CHARTER COMMUNICATIONS  
1510 CHARTER BOONE  
INDUSTRIAL BOULEVARD  
COLUMBIA, MO 65202  
573-875-8875

### STEAM & MEDIUM VOLTAGE ELECTRIC:

MU ENERGY MANAGEMENT  
180 GENERAL SERVICES BUILDING  
COLUMBIA, MO 65211  
573-882-8211

## STORM/SANITARY SEWER & WATER:

ENERGY MANAGEMENT  
417 S. 5TH ST.  
COLUMBIA, MO 65211  
573-882-3094

## SECONDARY ELECTRIC:

UNIVERSITY CAMPUS FACILITY OPERATIONS  
180 GENERAL SERVICES BUILDING  
COLUMBIA, MO 65211  
573-882-8211

## NATURAL GAS:

AMEREN MISSOURI  
2001 MAGUIRE BLVD.  
COLUMBIA, MO 65201  
573-876-3030

## FIBER:

UNIVERSITY OF MISSOURI, DIVISION OF I.T.  
920 S. COLLEGE AVE.  
COLUMBIA, MO 65211  
573-882-5000

## GENERAL NOTES:

TOTAL DISTURBED AREA: 5.90 ACRES

EXISTING UTILITIES SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE LOCATES PRIOR TO ANY EXCAVATION.

ALL EXCAVATION TO BE IN ACCORDANCE WITH SECTIONS 319.010-319.050, REVISED STATUTES OF THE STATE OF MISSOURI. SUCH COMPLIANCE SHALL NOT, HOWEVER, EXCUSE ANY PERSON MAKING ANY EXCAVATION FROM DOING SO IN A CAREFUL AND PRUDENT MANNER, NOR SHALL IT EXCUSE SUCH PERSON FROM LIABILITY FOR ANY DAMAGE OR INJURY TO UNDERGROUND UTILITIES RESULTING FROM THE EXCAVATION.

A GEOTECHNICAL EVALUATION OF THE SUBSURFACE SOIL, GROUNDWATER CONDITIONS, AND A SLOPE STABILITY ANALYSIS HAS BEEN PERFORMED BY CROCKETT GEOTECHNICAL. REFER TO REPORT G251148 DATED APRIL 3, 2025. THE OWNER SHALL SATISFY THEMSELVES OF ALL GEOTECHNICAL CONDITIONS PRIOR TO ANY CONSTRUCTION.

IT IS THE INTENT OF THESE PLANS TO COMPLY WITH THE REQUIREMENTS OF THE MOENR CLEAN WATER COMMISSION.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES AND REMOVING THEM ONCE THE SITE IS STABILIZED.

STORM WATER OR OTHER SOURCES OF WATER SHALL NOT BE ALLOWED TO ENTER ACTIVE STEAM SYSTEMS.

CONTRACTOR TO PROTECT ALL EXISTING UTILITIES, STRUCTURES, AND PAVEMENT THAT IS TO REMAIN. ALL DAMAGED ITEMS OUTSIDE THE SCOPE OF WORK TO BE REPLACED OR REPAIRED TO ORIGINAL CONDITION AT THE CONTRACTORS EXPENSE.

ALL PAVEMENTS, SIDEWALKS, ABANDONED SEWERS, PIPELINES, EXCESS EARTHWORK, OR OTHER OBSTRUCTIONS TO CONSTRUCTION THAT ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS SPECIFICALLY NOTED AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH STATE REGULATION 10 CSR 80-2.010 (9)(A).

ALL SLOPES ARE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.

ALL DISTURBED AREAS WITHIN THE "LIMITS OF DISTURBANCE" THAT ARE NOT TO BE PAVED, SHALL BE FINE GRADED BY CONTRACTOR TO AN ELEVATION OF 6" BELOW FINISHED GRADE. VEGETATION WILL BE REESTABLISHED BY OWNER.

ALL STORM SEWER PIPING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO DETAIL FOR PIPE BEDDING REQUIREMENTS.

ALL WORK SHALL BE SCHEDULED WITH THE OWNER'S REPRESENTATIVE AND BE SUBJECT TO THE OWNER'S APPROVAL PRIOR TO PROCEEDING.

## ENGINEER CERTIFICATION:

BY SIGNING AND AFFIXING MY SEAL TO THESE PLANS, I HEREBY CERTIFY THESE DRAWINGS AND/OR SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE DRAWINGS AND/OR SPECIFICATIONS ARE AS REQUIRED BY AND IN COMPLIANCE WITH THE BUILDING CODES OF THE UNIVERSITY OF MISSOURI.

## PROJECT BENCHMARK - WALTON FIELD:

TBM #1 - CHISELED "+" ON THE EAST BOLT OF THE LIGHT POLE BASE LOCATED APPROXIMATELY 40 FEET NORTHWEST OF THE MAIN ENTRANCE TO THE FIELD.  
ELEVATION = 716.51'

## FLOOD PLAIN STATEMENT:

NO PART OF THIS TRACT IS LOCATED WITHIN THE 100-YEAR FLOODPLAIN AS PER THE FEMA F.I.R.M. PANEL #29019C0280E AND #29019C0287E, BOTH DATED APRIL 19, 2017.

## ALTERNATES:

1. SOCCER PRACTICE FIELD REMOVAL AND REPLACEMENT OF UNDERDRAINS, IRRIGATION AND TURF.
2. SAND PIT.

## SPECIAL INSPECTIONS

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.

- a. CONCRETE GROUT DESIGN MIX (PERIODIC)
- b. PLACING OF CONCRETE AND REINFORCING STEEL (CONTINUOUS OF CONCRETE SAMPLING / PERIODIC OF REINFORCING)
- c. BOLTS & ANCHORS EMBEDDED IN CONCRETE (PERIODIC)
- d. STRUCTURAL STEEL FABRICATIONS (UNLESS AISC APPROVED) (PERIODIC)
- e. POST INSTALLED ANCHORS IN CONCRETE (CONTINUOUS)
- f. IN-SITU SOILS, EXCAVATIONS, FILLING & COMPACTION (PERIODIC)

THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.

## EXISTING UTILITY NOTE:

EXISTING UTILITIES ARE SHOWN BASED ON PREVIOUS DESIGN PLANS, FIELD LOCATES, MAPPING AND FIELD EVIDENCE. ACTUAL FIELD LOCATIONS AND SIZE MAY VARY FROM WHAT IS REPRESENTED ON THESE PLANS. CONTRACTOR TO CONTACT UNIVERSITY REPRESENTATIVE IF CONFLICTS WITH EXISTING AND PROPOSED UTILITIES ARISE.

## BUILDING CODES IN EFFECT:

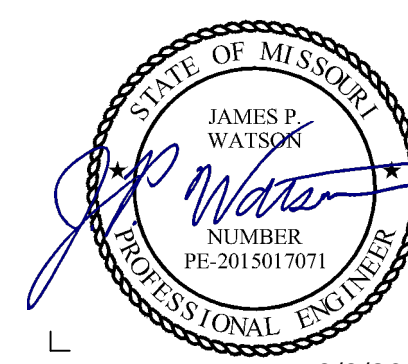
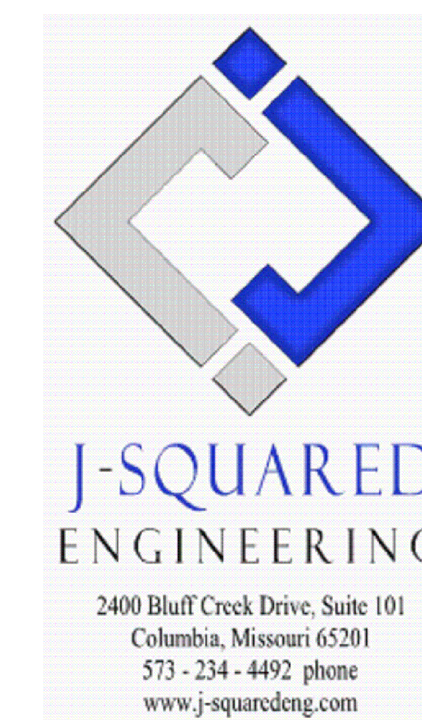
IBC/2024, NEC/2023, IPC/2024, IMC/2024, IFMC/2024, IFGC/2024, IECC/2024, IEBC/2024, IFC/2024 AS AMENDED AND ADOPTED BY THE UNIVERSITY.

## SHEET INDEX

CE 0.0	-	COVER SHEET
CE 1.0	-	EXISTING CONDITIONS
CE 2.0	-	DEMOLITION AND INITIAL EROSION CONTROL PLAN
CE 2.1	-	SITE ACCESS PLAN
CE 3.0	-	GRADING PLAN AND FINAL EROSION CONTROL PLAN
CE 4.0	-	UTILITY PLAN
CE 5.0	-	STORM SEWER PROFILES AND DETAILS
CE 6.0	-	SITE PLAN
CE 6.1	-	ENLARGED JUMPING EVENTS SITE PLAN
CE 7.0	-	TRACK DETAILS
CE 7.1	-	TRACK DETAILS CONTINUED
CE 7.2	-	SITE CONSTRUCTION DETAILS
CE 7.3	-	CHAIN LINK FENCE DETAILS
PF 3.1	-	PLAYING FIELD IRRIGATION PLAN
EP101	-	POWER PLAN
E501	-	ELECTRICAL DETAILS & SCHEDULES
S100	-	COVER / GENERAL STRUCTURAL DATA
S200	-	FOUNDATION PLANS & DETAILS

## SHEET INDEX (CONT.)

CE 8.0	-	ALTERNATE #1 - SOCCER PRACTICE FIELD
PF 3.2	-	PRACTICE PLAYING FIELD IRRIGATION PLAN - ALTERNATE #1
CE 8.1	-	ALTERNATE #2 - SAND PIT

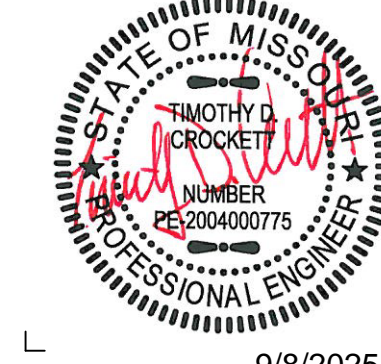


## MEP

I HEREBY CERTIFY THAT THESE DRAWINGS AND/OR SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE DRAWINGS AND/OR SPECIFICATIONS ARE AS REQUIRED BY AND IN COMPLIANCE WITH THE BUILDING CODES OF THE UNIVERSITY OF MISSOURI.

SIGNATURE: *J.P. Watson*

9/8/2025



## CIVIL

I HEREBY CERTIFY THAT THESE DRAWINGS AND/OR SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE DRAWINGS AND/OR SPECIFICATIONS ARE AS REQUIRED BY AND IN COMPLIANCE WITH THE BUILDING CODES OF THE UNIVERSITY OF MISSOURI.

SIGNATURE: *Timothy D. Crockett*

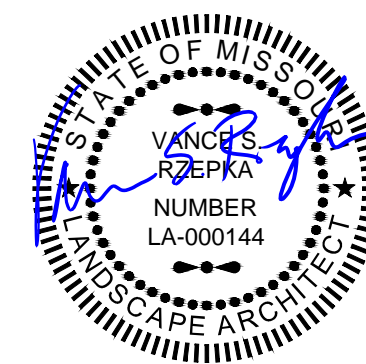
9/8/2025

## VSR Design

Landscape Architecture-Sports-Recreation-Golf

ph: (913) 484-5211

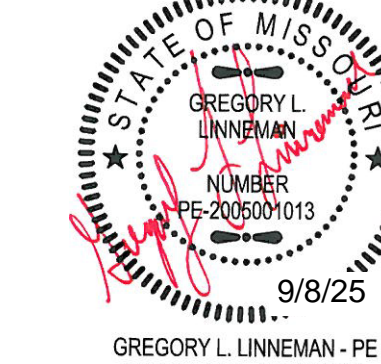
e: vance@vsrdesign.net



## LANDSCAPE ARCHITECT

I HEREBY CERTIFY THAT THESE DRAWINGS AND/OR SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE DRAWINGS AND/OR SPECIFICATIONS ARE AS REQUIRED BY AND IN COMPLIANCE WITH THE BUILDING CODES OF THE UNIVERSITY OF MISSOURI.

SIGNATURE: *Gregory L. Linnehan*



## STRUCTURAL

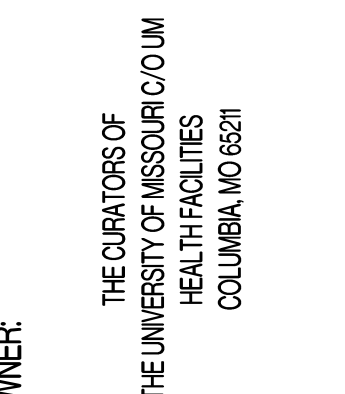
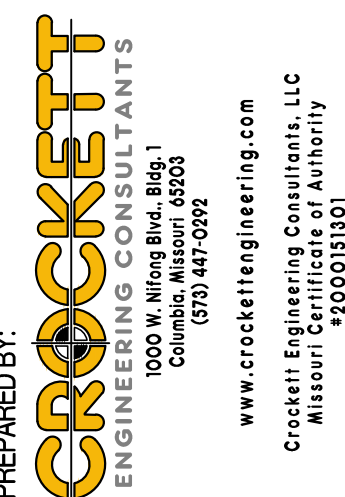
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SIGNATURE: *Gregory L. Linnehan*

## REVISIONS:

NO.	DATE
BID SET	09/08/2025
ADDENDUM #1	09/19/2025

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY



MU PROJECT #CP252172  
WALTON STADIUM - TRACK & SOCCER SURFACE UPGRADE  
COLUMBIA, BOONE COUNTY, MISSOURI

## DRAWING INCLUDES:

COVER SHEET

DESIGNED: TDC

DRAWN: JEE

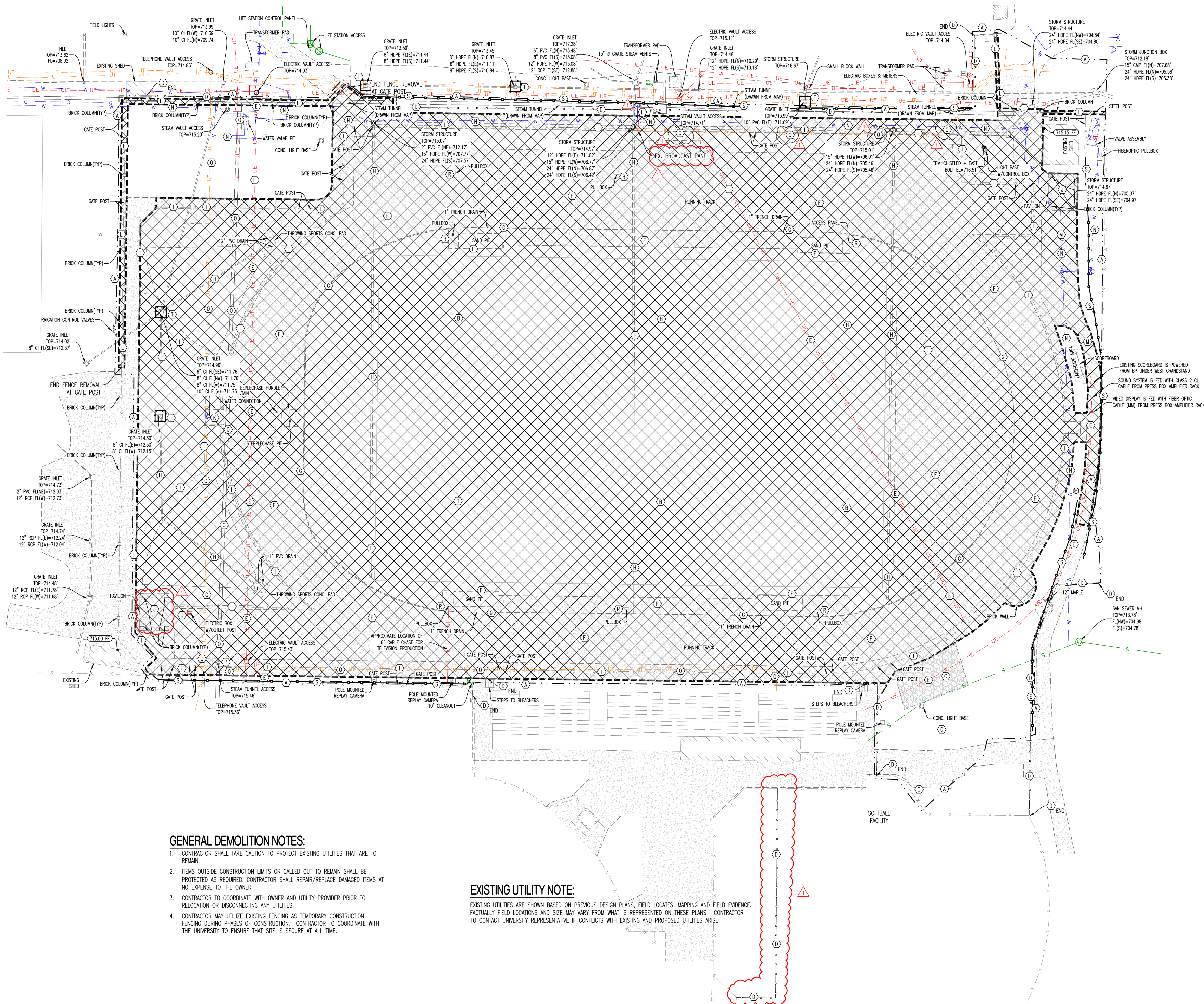
PROJECT NO.: 230519

SHEET:  
CE 0.0









**GENERAL DEMOLITION NOTES:**

1. CONTRACTOR SHALL TAKE CAUTION TO PROTECT EXISTING UTILITIES THAT ARE TO REMAIN.
2. ITEMS OUTSIDE CONSTRUCTION LIMITS OR CALLED OUT TO REMAIN SHALL BE PROTECTED AS REQUIRED. CONTRACTOR SHALL REPAIR/REPLACE DAMAGED ITEMS AT NO EXPENSE TO THE OWNER.
3. CONTRACTOR TO COORDINATE WITH OWNER AND UTILITY PROVIDER PRIOR TO RELOCATION OR DISCONNECTING ANY UTILITIES.
4. CONTRACTOR MAY UTILIZE EXISTING FENCING AS TEMPORARY CONSTRUCTION FENCING DURING PHASES OF CONSTRUCTION. CONTRACTOR TO COORDINATE WITH THE UNIVERSITY TO ENSURE THAT SITE IS SECURE AT ALL TIME.

**EXISTING UTILITY NOTE:**

EXISTING UTILITIES ARE SHOWN BASED ON PREVIOUS DESIGN PLANS, FIELD LOCATES, MAPPING AND FIELD EVIDENCE. FACTUALLY FIELD LOCATIONS AND SIZE MAY VARY FROM WHAT IS REPRESENTED ON THESE PLANS. CONTRACTOR TO CONTACT UNIVERSITY REPRESENTATIVE IF CONFLICTS WITH EXISTING AND PROPOSED UTILITIES ARISE.

**LEGEND OF LABELS:**

- (A) LIMITS OF DISTURBANCE.
- (B) CONTRACTOR TO REMOVE EXISTING NATURAL TURF, IRRIGATION LINES AND UNDERDRAINS. HAUL OFF AND DISPOSE LEGALLY OFF-SITE.
- (C) UTILIZE THIS AREA AS CONSTRUCTION ENTRY AND EXIT. ALL CONSTRUCTION TRAFFIC SHALL ACCESS THE WORK AREA FROM THIS LOCATION. REFER TO SHEET CE 2.1 FOR ACCESS PLAN.
- (D) CONTRACTOR TO INSTALL TEMPORARY CONSTRUCTION FENCING AROUND WORK AREA AS SHOWN. FENCE SHALL BE CONSTRUCTED OF 9 OR 11-GAUGE CHAIN LINK NOT LESS THAN 6 FEET IN HEIGHT AND NOT MORE THAN 2-INCH MESH WITH POST SPACED NOT MORE THAN 10 FEET APART AND ALL CORNER AND GATE POSTS IMBEDDED IN CONCRETE. ALL OTHER POST SHALL BE SUFFICIENTLY SECURED IN GROUND TO MAINTAIN PROPER AND ADEQUATE SUPPORT OF FENCE. FENCE IN AREA SHALL HAVE AT LEAST 2 ACCESS GATES AND ALL GATES SHALL BE LOCKABLE. CONTRACTOR MAY USE EXISTING FENCE AS CONSTRUCTION FENCING DURING PHASES OF CONSTRUCTION WITH APPROVAL FROM UNIVERSITY.
- (E) EXISTING ELECTRIC LINE TO REMAIN AND BE PROTECTED FROM CONSTRUCTION ACTIVITIES.
- (F) EXISTING TRACK, JUMP, PITS, UNDERDRAINS, CONCRETE SIDEWALK, ETC. TO BE REMOVED AND LEGALLY DISPOSED OFF-SITE.
- (G) EXISTING TRENCH DRAIN AROUND TRACK TO BE REMOVED AND LEGALLY DISPOSED OFF-SITE.
- (H) EXISTING STORM SEWER PIPE TO BE REMOVED AND LEGALLY DISPOSED OFF-SITE.
- (I) EXISTING PERIMETER FENCE TO BE REMOVED AND LEGALLY DISPOSED OFF-SITE.
- (J) EXISTING PAVILION AND FOUNDATION TO BE REMOVED AND LEGALLY DISPOSED OFF-SITE.
- (K) EXISTING WATER FOUNTAIN TO BE REMOVED AND LEGALLY DISPOSED OFF-SITE. CONTRACTOR TO HAVE SERVICE LINE TURNED OFF AND WATER LINE CAPPED AT MAIN. COORDINATE WITH OWNER PRIOR TO TERMINATION.
- (L) EXISTING BRICK COLUMN, FENCING, AND GATES TO BE REMOVED AND LEGALLY DISPOSED OFF-SITE.
- (M) EXISTING ASPHALT DRIVE TO BE REMOVED AND DISPOSED LEGALLY OFF-SITE.
- (N) EXISTING WATERLINE TO REMAIN AND BE PROTECTED FROM CONSTRUCTION ACTIVITIES.
- (O) EXISTING ABANDONED STEAM CHASE TO REMAIN.
- (P) EXISTING ABANDONED STEAM MANHOLE. CONTRACTOR TO CHECK FOR ASBESTOS AND PROVIDE DOCUMENTATION TO UNIVERSITY. CONTRACTOR TO PERFORM ASBESTOS ABATEMENT IF REQUIRED. REFER TO SPECIFICATIONS. BOTTOM OF MANHOLE TO BE BROKEN AND STRUCTURE FILLED WITH CLEAN SAND.
- (Q) EXISTING FIBER TO REMAIN AND BE PROTECTED FROM CONSTRUCTION ACTIVITIES.
- (R) EXISTING PULL BOX TO BE REMOVED AND UNDERGROUND CONDUITS TO BE REMOVED IF ENCOUNTERED WITH EXCAVATION. CONTRACTOR TO MARK AND RECORD EXISTING LOCATIONS OF CONDUIT AT LIMITS OF DEMOLITION.
- (S) CONTRACTOR TO INSTALL SILT FENCE. REFER TO PROJECT SWPPP FOR DETAILS.
- (T) CONTRACTOR TO INSTALL SILT FENCE INLET PROTECTIONS. REFER TO PROJECT SWPPP FOR DETAILS.
- (U) ELECTRIC OUTLET BOX SERVICE TO BE DISCONNECTED AND REMOVED. CONTRACTOR TO COORDINATE WITH MU UTILITIES.

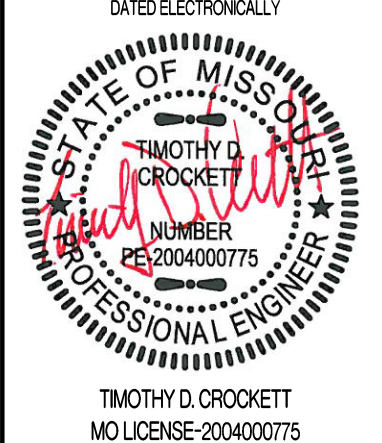
**GENERAL EROSION CONTROL NOTES:**

1. THE CONTRACTOR SHALL PROVIDE FOR CONTROL OF SURFACE EROSION AND SEDIMENT DEPOSITION DURING ALL PHASES OF CONSTRUCTION AND UNTIL THE OWNER ACCEPTS THE WORK AS SUBSTANTIALLY COMPLETE.
2. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ROADWAYS AND SIDEWALKS ADJACENT TO THE CONSTRUCTION SITE FREE OF DIRT AND DEBRIS RESULTING FROM ACTIVITIES RELATED TO THE CONSTRUCTION OF THIS PROJECT.
3. CONTRACTOR SHALL KEEP THE ENTIRE PROJECT SITE FREE OF DEBRIS AND TRASH AT ALL TIMES. CONTRACTOR SHALL EXECUTE WORK USING METHODS THAT MINIMIZE EXCESSIVE NOISE OR DUST EMISSIONS. CONTRACTOR SHALL PROVIDE METHODS, MEANS AND FACILITIES TO PREVENT CONTAMINATION OF SOIL OR WATER FROM DISCHARGE OF REGULATED MATERIALS (I.E., DIESEL FUEL) USED DURING CONSTRUCTION.
4. CONTRACTOR MUST INSTALL AND MAINTAIN THE EROSION CONTROL MEASURES SHOWN ON THIS PLAN. IF THE ENGINEER, OWNER'S REPRESENTATIVE, DETERMINES THAT THE INSTALLATION OF THE MAINTENANCE IS INADEQUATE, THE CONTRACTOR MUST IMMEDIATELY CORRECT AT THEIR EXPENSE. IF IT IS DETERMINED THAT ADDITIONAL EROSION CONTROL MEASURES ARE NEEDED THE CONTRACTOR WILL BE DIRECTED TO INSTALL AND MAINTAIN THOSE MEASURES.
5. THE CONTRACTOR SHALL INSPECT THE LAND DISTURBANCE SITE AT LEAST ONCE EVERY SEVEN (7) DAYS AND WITHIN TWENTY-FOUR (24) HOURS FOLLOWING EACH RAINFALL EVENT OF 1/2" OR MORE WITHIN ANY TWENTY-FOUR (24) HOUR PERIOD. THE CONTRACTOR SHALL ALSO INSPECT AND ASSURE THAT ALL SEDIMENT CONTROL DEVICES ARE IN WORKING CONDITION PRIOR TO ANY FORECASTED RAINFALL.
6. THE CONTRACTOR SHALL REMOVE SEDIMENT FROM THE FLOW AREAS AND MAKE ALL NECESSARY REPAIRS TO MAINTAIN THE INTEGRITY OF THE SEDIMENT CONTROL MEASURES. SEDIMENT SHALL BE REMOVED ONCE IT REACHED 1/2 THE INSTALLED HEIGHT OF MEASURE.
7. SOME OF THE EROSION AND SEDIMENT CONTROL MEASURES, WILL REQUIRE THE CONTRACTOR TO INSTALL, REMOVE, AND REINSTALL THE MEASURES AS CONSTRUCTION PROCEEDS. THE PHASING OF THIS WORK IS DEPENDENT ENTIRELY ON THE CONTRACTOR'S SCHEDULE, AND IS NOT SPECIFIED HEREIN. HOWEVER, THE CONTRACTOR SHALL COORDINATE THESE ACTIONS WITH THE ENGINEER AT THE TIMES ADJUSTMENTS ARE NEEDED.

**REVISIONS:**

NO.	DATE
BID SET	09/08/2025

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY



PREPARED BY:  
**CROCKETT**  
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Crockett Engineering Consultants, LLC  
Missouri Certificate of Authority  
#00000001

OWNER:  
THE CURATORS OF  
THE UNIVERSITY OF MISSOURI  
HEALTH SCIENCES  
COLUMBIA, MO 65211

**MU PROJECT #CP252172  
WALTON STADIUM - TRACK & SOCCER SURFACE UPGRADE  
COLUMBIA, BOONE COUNTY, MISSOURI**

**DRAWING INCLUDES:**

DEMOLITION AND INTIAL  
EROSION CONTROL  
PLAN

DESIGNED: TDC

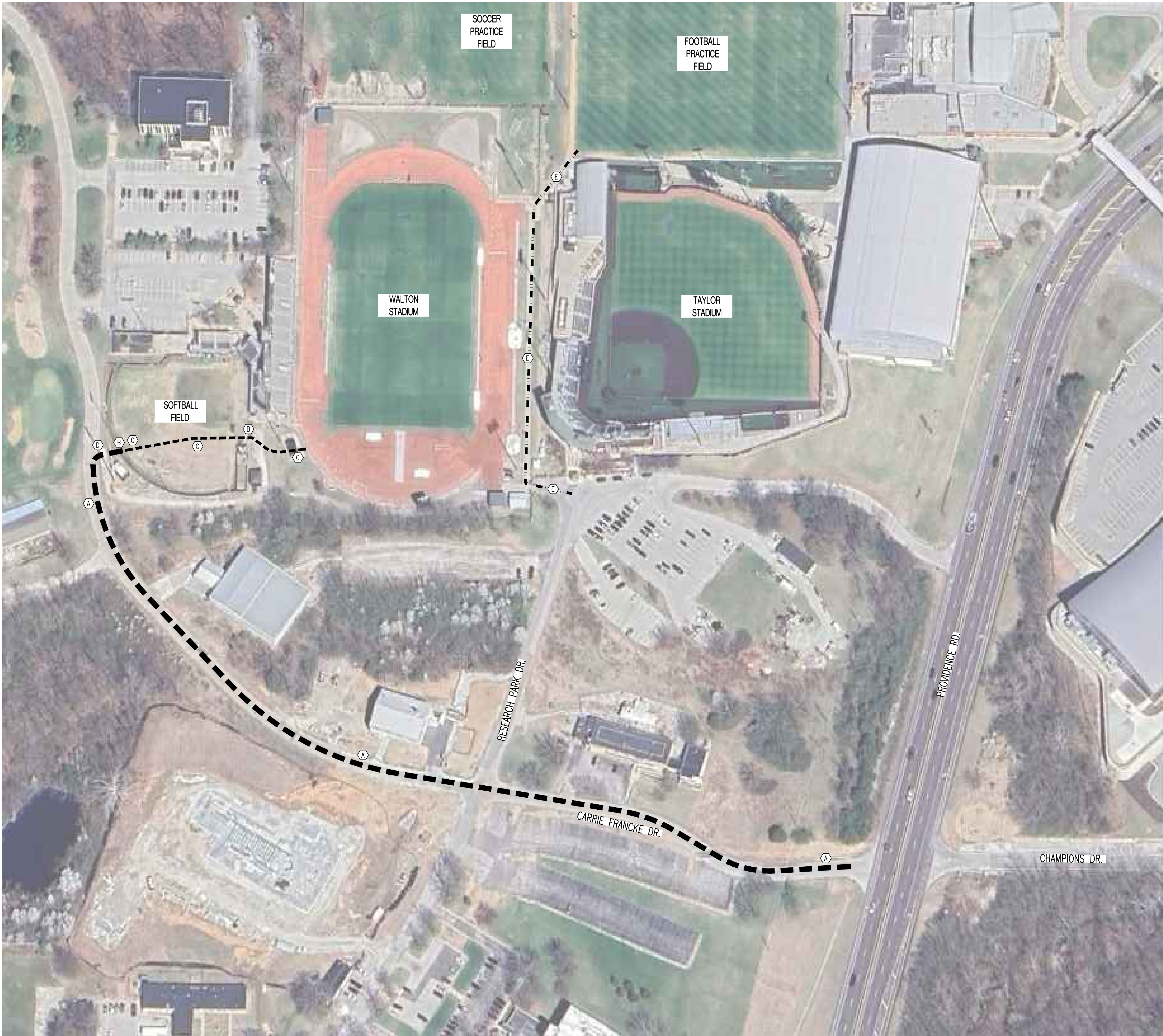
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PROJECT NO.: 230519

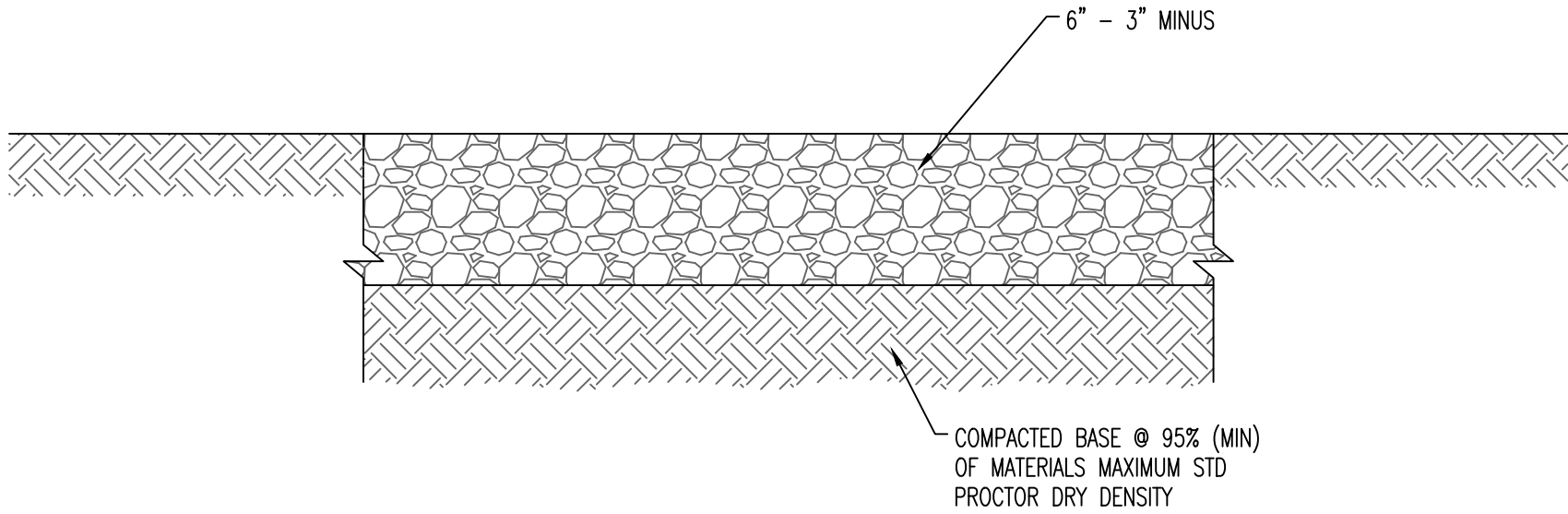
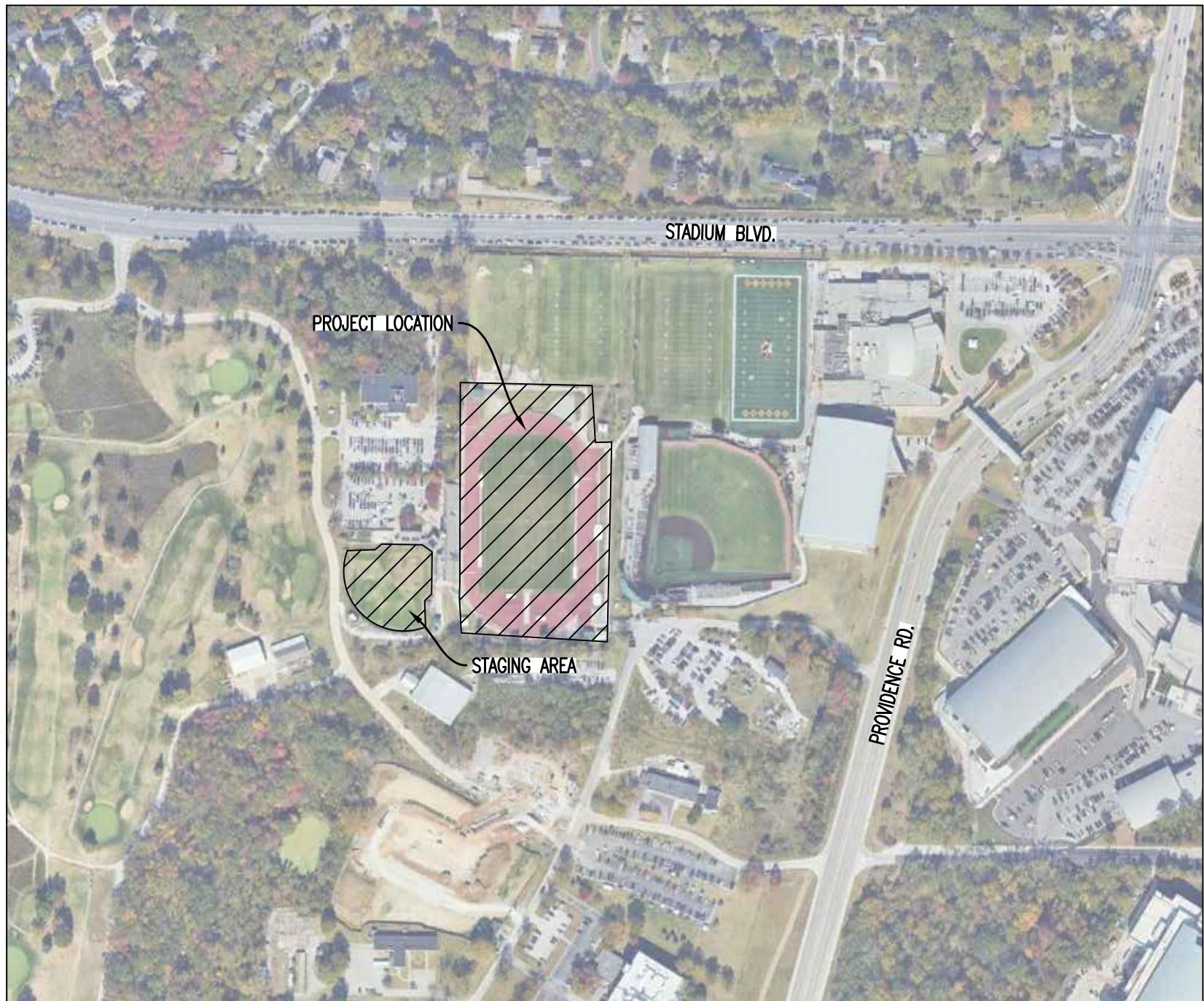
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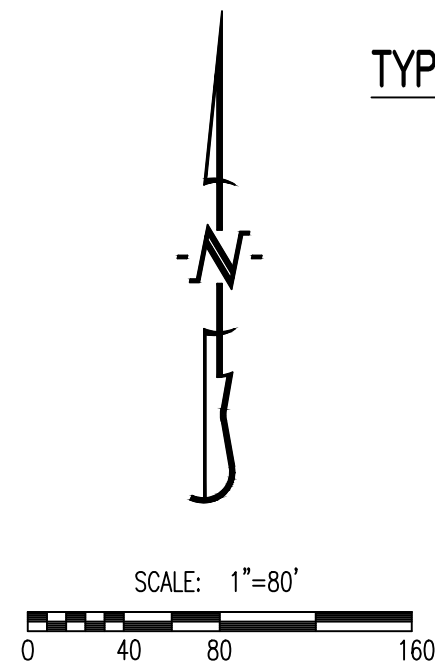
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CONSTRUCTION STAGING AREA



TYPICAL TEMPORARY ACCESS DRIVE CROSS-SECTION



LEGEND OF LABELS

- (A) CONTRACTOR TO USE EXISTING PAVEMENT AS CONSTRUCTION ENTRY AND EXIT. ALL CONSTRUCTION TRAFFIC SHALL UTILIZE THIS ENTRY AND EXIT TO THE PROJECT. CONTRACTOR TO PROVIDE FENCING AND GATES WITH LOCKS AS REQUIRED TO SECURE THE ACCESS FROM CARRIE FRANCKE DRIVE TO OLD SOFTBALL FIELD AT THE EXISTING FENCE. ANY DAMAGE TO EXISTING PAVEMENT DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR. CONTRACTOR SHALL CLEAN/POWER WASH CONSTRUCTION AREA PAVEMENT ONCE WORK IS COMPLETE. ACCESS ACROSS THE OLD SOFTBALL FIELD SHALL BE ALLOWED BUT CONTRACTOR WILL NEED TO INSTALL TEMPORARY ACCESS DRIVE TO BE USED DURING CONSTRUCTION. ONCE CONSTRUCTION IS COMPLETE, CONTRACTOR TO REMOVE TEMPORARY ACCESS DRIVE.
- (B) REMOVE EXISTING SOFTBALL FENCE AS NECESSARY FOR CONSTRUCTION ENTRANCE.
- (C) CONSTRUCT TEMPORARY ACCESS DRIVE. REFER TO DETAIL THIS SHEET.
- (D) CONTRACTOR TO PROVIDE TEMPORARY ASPHALT WEDGE AT CURB AND GUTTER FOR ACCESS DRIVE.
- (E) ACCESS TO FOOTBALL PRACTICE FIELD FOR MAINTENANCE DEPARTMENT TO BE COORDINATED WITH OWNER'S REPRESENTATIVE AND CONTRACTOR.

REVISIONS:

NO.	DATE
BID SET	09/08/2025

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

STATE OF MISSOURI

TIMOTHY D. CROCKETT

REGISTERED PROFESSIONAL ENGINEER

NUMBER 252004000775

MISSOURI

TIMOTHY D. CROCKETT  
MO LICENSE 2004000775

PREPARED BY:

CROCKETT ENGINEERS & PLANNERS

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www.crockettengineering.com  
Crockett Engineering Consultants, LLC  
Missouri Certificate of Authority #000001001

OWNER:

THE CURATORS OF THE UNIVERSITY OF MISSOURI COLUMBIA

HEALTH SCIENCES COLUMBIA, MO 65211

MU PROJECT #CP252172

WALTON STADIUM - TRACK & SOCCER SURFACE UPGRADE

COLUMBIA, BOONE COUNTY, MISSOURI

DRAWING INCLUDES:

SITE ACCESS PLAN

DESIGNED: TDC

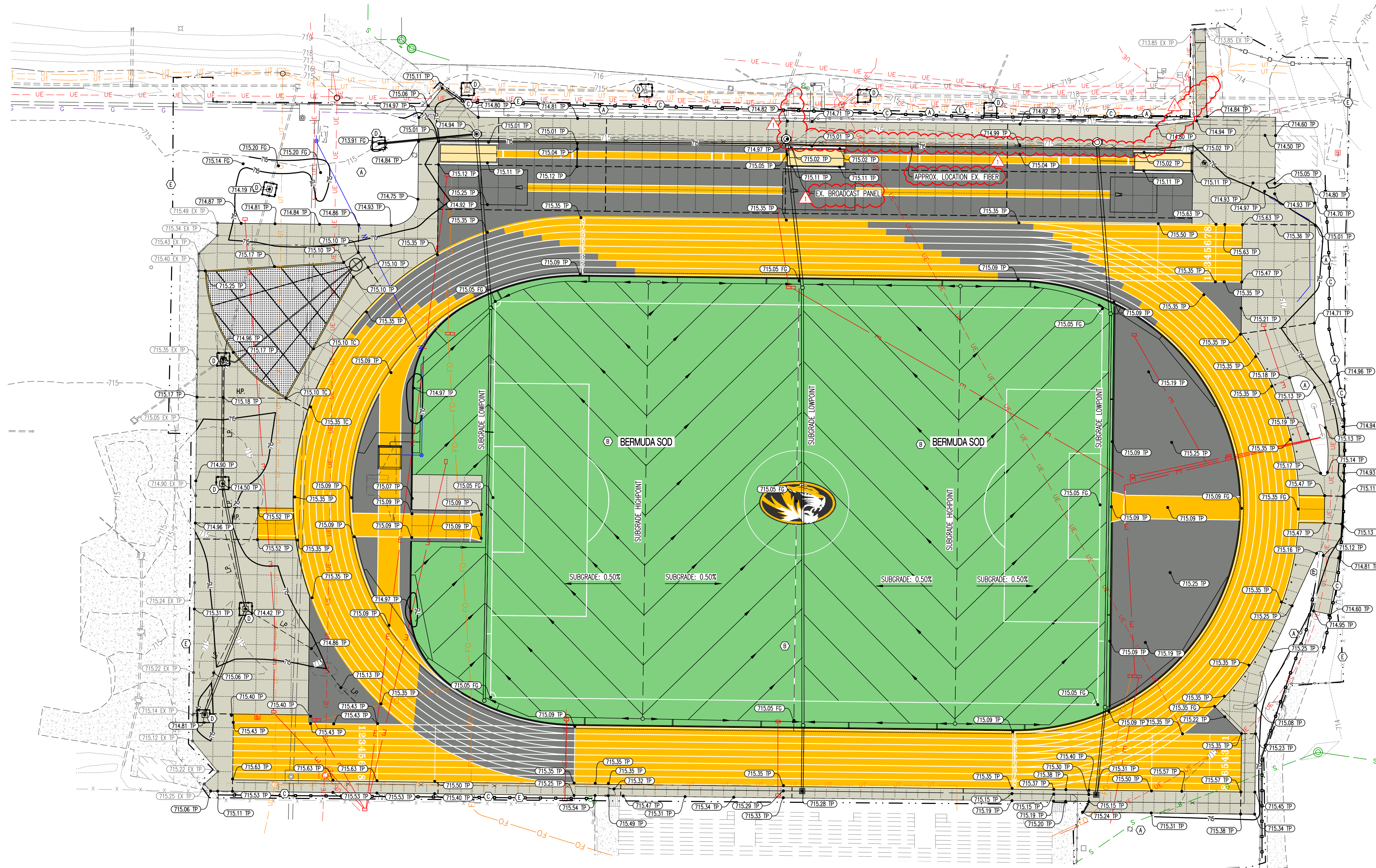
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PROJECT NO: 230519

SHEET: CE 2.1



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LEGEND OF SYMBOLS:

- XXX--- EXISTING MINOR CONTOUR
- - - - - EXISTING MAJOR CONTOUR
- XXX--- PROPOSED MINOR CONTOUR
- XXX--- PROPOSED MAJOR CONTOUR
- (XXX.XX EX TP) EXISTING TOP OF PAVEMENT ELEVATION
- (XXX.XX FG) PROPOSED FINISH GRADE ELEVATION
- (XXX.XX TP) PROPOSED TOP OF PAVEMENT / TOP OF TRACK SURFACE
- X.XX- PROPOSED SLOPE

CONSTRUCTION NOTES:

- (A) ALL DISTURBED AREAS OUTSIDE OF TRACK AND WITHIN THE "LIMITS OF DISTURBANCE" THAT ARE NOT TO BE PAVED OR PART OF THE SOCCER FIELD SHALL BE FINE GRADED BY CONTRACTOR TO AN ELEVATION OF 6" BELOW FINISHED GRADE. VEGETATION WILL BE REESTABLISHED BY OWNER.
- (B) ALL EXCESS EXCAVATED MATERIAL SHALL BE HAULED OFFSITE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A LOCATION FOR THIS MATERIAL. ALL PERMITTING FOR ANY FILL SITE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL EXPORT MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR ONCE REMOVED FROM THE FIELD.
- (C) INSTALL SILT FENCE. PORTIONS MAY BE INSTALLED AS INITIAL EROSION CONTROL. REFER TO PROJECT SWPPP FOR DETAILS.
- (D) INSTALL SILT FENCE INLET PROTECTION. REFER TO PROJECT SWPPP FOR DETAILS.
- (E) LIMITS OF DISTURBANCE.

EXISTING UTILITY NOTE:

EXISTING UTILITIES ARE SHOWN BASED ON PREVIOUS DESIGN PLANS, FIELD LOCATES, MAPPING AND FIELD EVIDENCE. ACTUAL FIELD LOCATIONS AND SIZE MAY VARY FROM WHAT IS REPRESENTED ON THESE PLANS. CONTRACTOR TO CONTACT UNIVERSITY REPRESENTATIVE IF CONFLICTS WITH EXISTING AND PROPOSED UTILITIES ARISE.

FINAL GRADES:

ALL FINAL GRADES OF THE TRACK, RUNWAYS, JUMP PITS, "D" ZONE, ETC. SHALL CONFORM TO THE WORLD ATHLETICS COMPETITION AND TECHNICAL RULES 2024 EDITION FOR TRACK AND FIELD SLOPES AND GRADES.

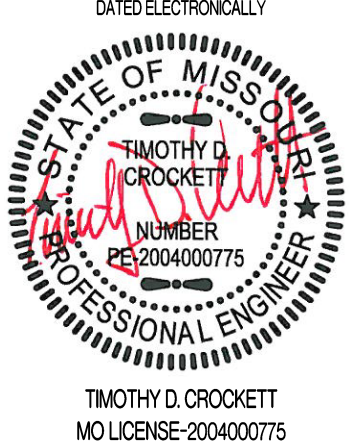
CHEMICAL SOIL STABILIZATION NOTE:

CONTRACTOR SHALL PROVIDE CHEMICAL SOIL STABILIZATION OF THE UPPER 12" OF COMPACTED SUBBASE USING PORTLAND CEMENT AT A APPLICATION RATE OF 6% FOR BASE BID UNDER TRACK AND FIELD EVENTS PAVEMENT. FINAL APPLICATION RATE TO BE DETERMINED BY CONTRACTOR AND SUBMITTED FOR APPROVAL. CHEMICAL MODIFICATION SHALL BE PERFORMED BY A PRE-QUALIFIED CONTRACTOR HAVING EXPERIENCE WITH SUCCESSFULLY STABILIZING SUBGRADES IN THE PROJECT AREA ON SIMILAR SIZED PROJECTS WITH SIMILAR SOIL CONDITIONS. RESULTS OF CHEMICAL ANALYSIS OF THE ADDITIVE MATERIAL SHALL BE PROVIDED TO GEOTECHNICAL ENGINEER PRIOR TO USE. REFER TO GEOTECH REPORT FOR EXISTING SOILS INFORMATION.

REVISIONS:

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ADDENDUM #1	09/19/2025

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MU PROJECT #CP252172  
WALTON STADIUM - TRACK & SOCCER SURFACE UPGRADE  
COLUMBIA BOONE COUNTY, MISSOURI

DRAWING INCLUDES:

GRADING AND FINAL  
EROSION CONTROL  
PLAN

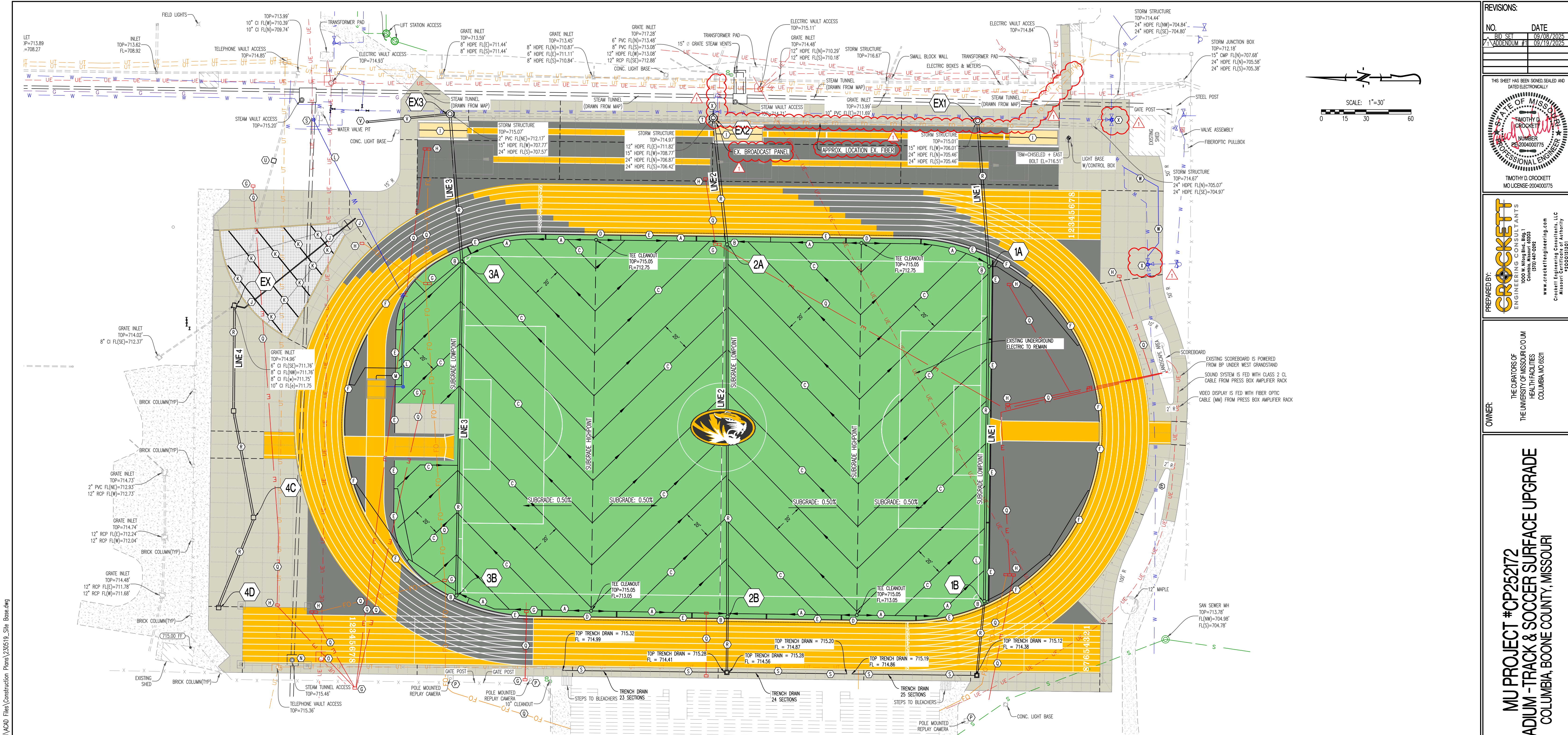
DESIGNED: TDC

DRAWN: JEE

PROJECT NO.: 230519

SHEET:  
CE 3.0





CONSTRUCTION NOTES:

- (A) INSTALL 12" PERFORATED HPP PIPE AT 1.0% GRADE.
- (B) INSTALL 24" NYLOPLAST DRAIN BASINS AND STORM SEWER PIPES. REFER TO PROFILES ON SHEET CE 7.0 FOR DESIGN ELEVATIONS.
- (C) 4" PERFORATED HDPE DRAIN AT 20" O.C. (TYP.). MIN. GRADE AT 0.5%. REFER TO DETAIL ON SHEET CE 7.2.
- (D) INSTALL 12" INLINE TEE CLEANOUT. REFER TO PLANS FOR DESIGN ELEVATIONS. REFER TO DETAIL ON SHEET CE 7.2.
- (E) INSTALL ACO 4000 TRENCH DRAINS AND CATCH BASINS (OR ENGINEER APPROVED EQUAL). REFER TO MANUFACTURERS SPECIFICATIONS. CONTRACTOR TO CONNECT CATCH BASINS TO NYLOPLAST BASIN WITH 6" PVC PIPE AT MIN. 0.5% GRADE. INSTALL HORIZONTAL BENDS AS REQUIRED.
- (F) INSTALL ACO 2000 (RADIUS) SLOT DRAIN (TRACK RADIUS IS NOT W/IAAF STANDARD, CUSTOM SLOT DRAIN REQUIRED) AND CATCH BASINS (OR ENGINEER APPROVED EQUAL). REFER TO MANUFACTURERS SPECIFICATIONS. CONTRACTOR TO CONNECT SLOT DRAIN TO NYLOPLAST BASIN WITH 6" PVC PIPE AT MIN. 0.5% GRADE. INSTALL HORIZONTAL BENDS AS REQUIRED.
- (G) CONTRACTOR TO INSTALL APPROVED VAULT FOR GRASS COMMUNICATIONS/POWER. VAULT TO HAVE LID WITH GREEN TURF AND INSTALLED SO TURF IS AT FINAL FIELD ELEVATION. REFER TO M.E.P.
- (H) CONTRACTOR TO INSTALL APPROVED VAULT FOR COMMUNICATIONS/POWER BOX IN TRACK SECTION. LID TO HAVE SIMILAR TRACK SURFACE AND BE INSTALLED FLUSH WITH SURROUNDING TRACK SURFACE. REFER TO M.E.P. PLANS.
- (I) INSTALL 4" PERFORATED DRAIN TILE FROM LONG JUMP PIT. THE DRAIN INTO PROPOSED STORM SEWER AS SHOWN. REFER TO DETAIL ON SHEET CE 7.0.

- (J) CONTRACTOR TO INSTALL 6" PVC COLLECTOR PIPE AT 0.50% GRADE. CONTRACTOR TO CONNECT (2) 2" DIA. DRAINS FROM SHOT PUT CIRCLE TO 6" PVC COLLECTOR PIPE AS REQUIRED. (2) 2" DIA. DRAINS SHALL HAVE SLOTTED STAINLESS STEEL THREADED DRAIN CAPS. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL.
- (K) INSTALL 4" PERFORATED DRAIN TILE WRAPPED IN FILTER FABRIC AT SHOT PUT AT 0.50% MINIMUM GRADE. DRAIN TILE SHALL CONNECT TO 6" PVC COLLECTOR PIPE. SPACING OF DRAIN TILE SHALL NOT EXCEED 15'. CONTRACTOR SHALL CORE NEW HOLE AS REQUIRED TO EXISTING STORM STRUCTURE AND GROUT CLOSE EXISTING PIPE OPENING.
- (L) CONTRACTOR TO INSTALL NEW 2" WATER SERVICE TO STEEPLECHASE VAULT LOCATION. CONTRACTOR TO INSTALL VALVES AND BLOW OFF ASSEMBLY TO ALLOW FOR WINTERIZATION OF WATER LINE.
- (M) INSTALL 3" PVC PIPE TO DRAIN STEEPLECHASE VAULT. INSTALL VALVE BOX OUTSIDE OF TRACK SURFACE. 3" PVC PIPE TO DRAIN TO STORM SEWER AS SHOWN AT MIN. 1% GRADE.
- (N) EXISTING ABANDONED STEAM MANHOLE. CONTRACTOR TO CHECK FOR ASBESTOS AND PROVIDE DOCUMENTATION TO UNIVERSITY. CONTRACTOR TO PERFORM ASBESTOS ABATEMENT IF REQUIRED. REFER TO SPECIFICATIONS. BOTTOM OF MANHOLE TO BE BROKEN AND STRUCTURE FILLED WITH CLEAN SAND.
- (O) EXISTING ELECTRIC VAULT TOP TO BE ADJUSTED TO FINAL GRADE. CONTRACTOR TO COORDINATE WITH MU UTILITIES. TOP SHALL HAVE TRACK SURFACE INSTALLED ON LID AND SHALL BE FLUSH WITH ADJACENT TRACK TOP OF SURFACE.
- (P) EXISTING REPLAY CAMERA, POLES, BASE AND FOOTINGS (3 TOTAL) TO BE RELOCATED AS REQUIRED TO ALIGN WITH APPROPRIATE SOCCER LINES. CONTRACTOR TO COORDINATE RELOCATION WITH MU UTILITIES.
- (Q) CONTRACTOR TO INSTALL UNDERGROUND PVC CONDUITS FOR DATA AND COMMUNICATIONS. REFER TO M.E.P. PLANS FOR NUMBER AND SIZES.

- (R) PROPOSED STORM SEWER. REFER TO PROFILES ON SHEET CE 5.0 FOR DESIGN ELEVATIONS.
- (S) INSTALL ACO K5100 TRENCH DRAIN. REFER TO MANUFACTURERS SPECIFICATIONS. CONTRACTOR TO CONNECT SLOT DRAIN TO 2' x 2' CATCH BASIN WITH 6" PVC PIPE AT MIN. 0.5% GRADE.
- (T) INTENTIONALLY LEFT BLANK.
- (U) INSTALL 2'x2' CONCRETE CATCH BASIN WITH NEENAH R-6672-C FRAME AND GRATE. TOP=714.19, FL=710.90.
- (V) INSTALL 15" NYLOPLAST DRAIN BASIN WITH GRATED H-20 RATED LID. TOP=713.91, FL=711.41. INSTALL 12" HPP STORM SEWER PIPE AT MIN. 0.50% GRADED AND CONNECT TO EXISTING STORM AS SHOWN. CONTRACTOR TO CORE INTO EXISTING STORM BOX AT FL=710.75.
- (W) EXISTING 10" WATERLINE TO BE RELOCATED. INSTALL BENDS AS REQUIRED. REFER TO DETAILS ON SHEET CE 7.2. CONTRACTOR TO VERIFY SIZE PRIOR TO ORDERING MATERIALS. CONTRACTOR TO COORDINATE WITH MU UTILITIES.
- (X) EXISTING WATER VALVES TOPS TO BE ADJUSTED TO FINAL GRADE.

FIELD DRAINAGE NOTES:

- 1) AFTER EXCAVATION OF EXISTING SOIL TO THE PROPER ELEVATIONS REQUIRED, THE NEW SUBGRADE WILL BE SHAPED AND COMPACTED TO DESIGNED DENSITY WITH A 0.5% SLOPE TO ALLOW FOR DRAINAGE TO DRAIN PIPES.
- 2) A GEOTEXTILE FABRIC WILL BE PLACED OVER THE SUBGRADE, AND COMPOSITE DRAINS WILL BE INSTALLED AT 20 FEET ON CENTER AT A 45 DEGREE ANGLE TO THE FIELD (HERRINGBONE DESIGN).
- 4) THE COMPOSITE DRAINS WILL DRAIN TO A PERIMETER COLLECTOR (REFER TO PLANS FOR SIZE) WHICH WILL BE CONNECTED TO THE PROPOSED DRAINAGE SYSTEM.
- 5) FREE DRAINAGE AGGREGATE SHALL BE PLACED OVER THE COMPOSITE DRAINS AND THE PERIMETER COLLECTORS AND FINE GRADED FOR A FIELD AS SHOWN ON THE GRADING PLAN.

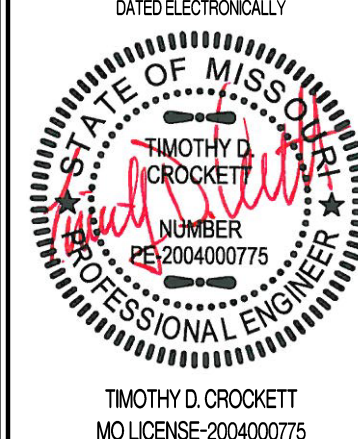
EXISTING UTILITY NOTE:

EXISTING UTILITIES ARE SHOWN BASED ON PREVIOUS DESIGN PLANS, FIELD LOCATES, MAPPING AND FIELD EVIDENCE. ACTUAL FIELD LOCATIONS AND SIZE MAY VARY FROM WHAT IS REPRESENTED ON THESE PLANS. CONTRACTOR TO CONTACT UNIVERSITY REPRESENTATIVE IF CONFLICTS WITH EXISTING AND PROPOSED UTILITIES ARISE.

REVISIONS:

NO.	DATE
BID SET	09/08/2025
ADDENDUM #1	09/19/2025

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.



PREPARED BY:  
**CROCKETT**  
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www.crockettingeering.com  
Missouri Certificate of Authority  
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OWNER:  
THE CURATORS OF  
THE UNIVERSITY OF MISSOURI/COLUMBIA  
HEALTH SCIENCES  
COLUMBIA, MO 65211

MU PROJECT #CP252172  
WALTON STADIUM - TRACK & SOCCER SURFACE UPGRADE  
COLUMBIA, BOONE COUNTY, MISSOURI

DRAWING INCLUDES:

UTILITY PLAN

DESIGNED: TDC

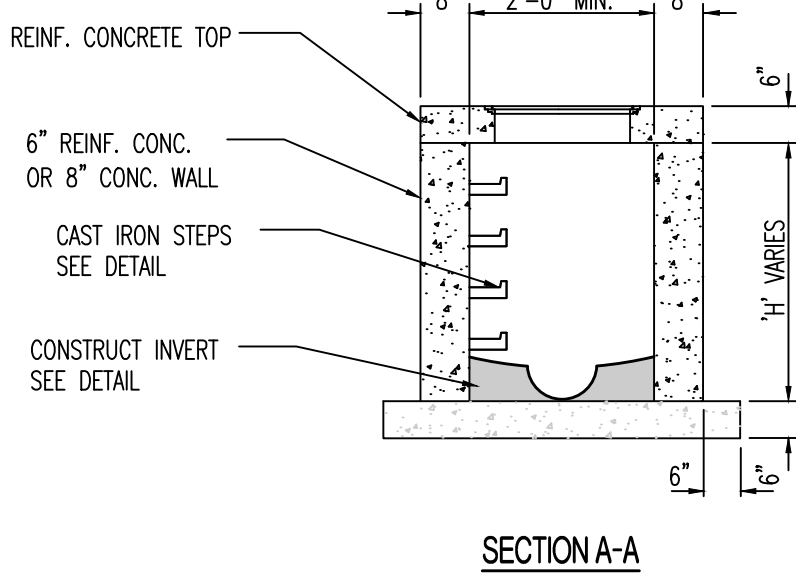
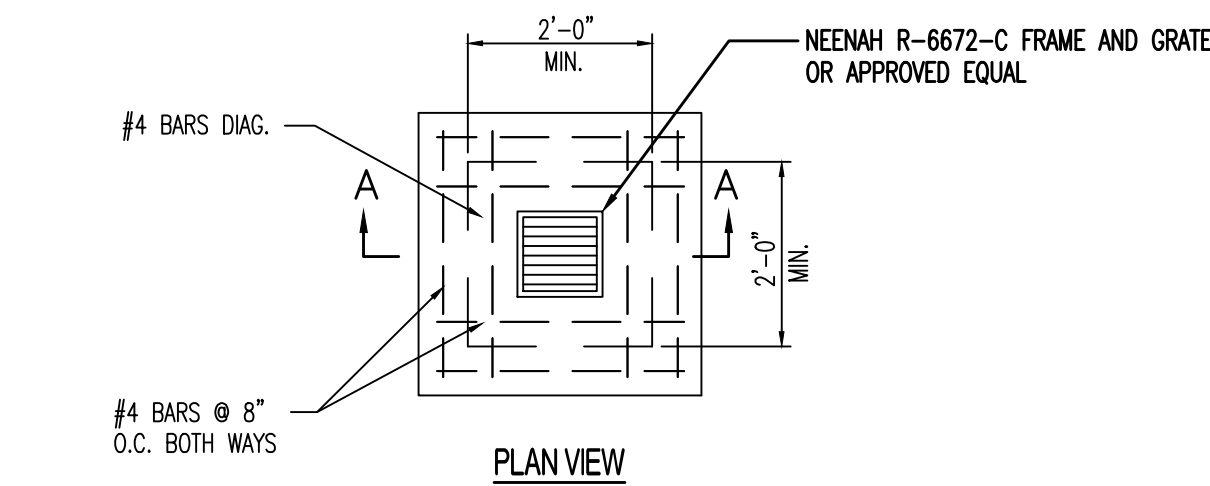
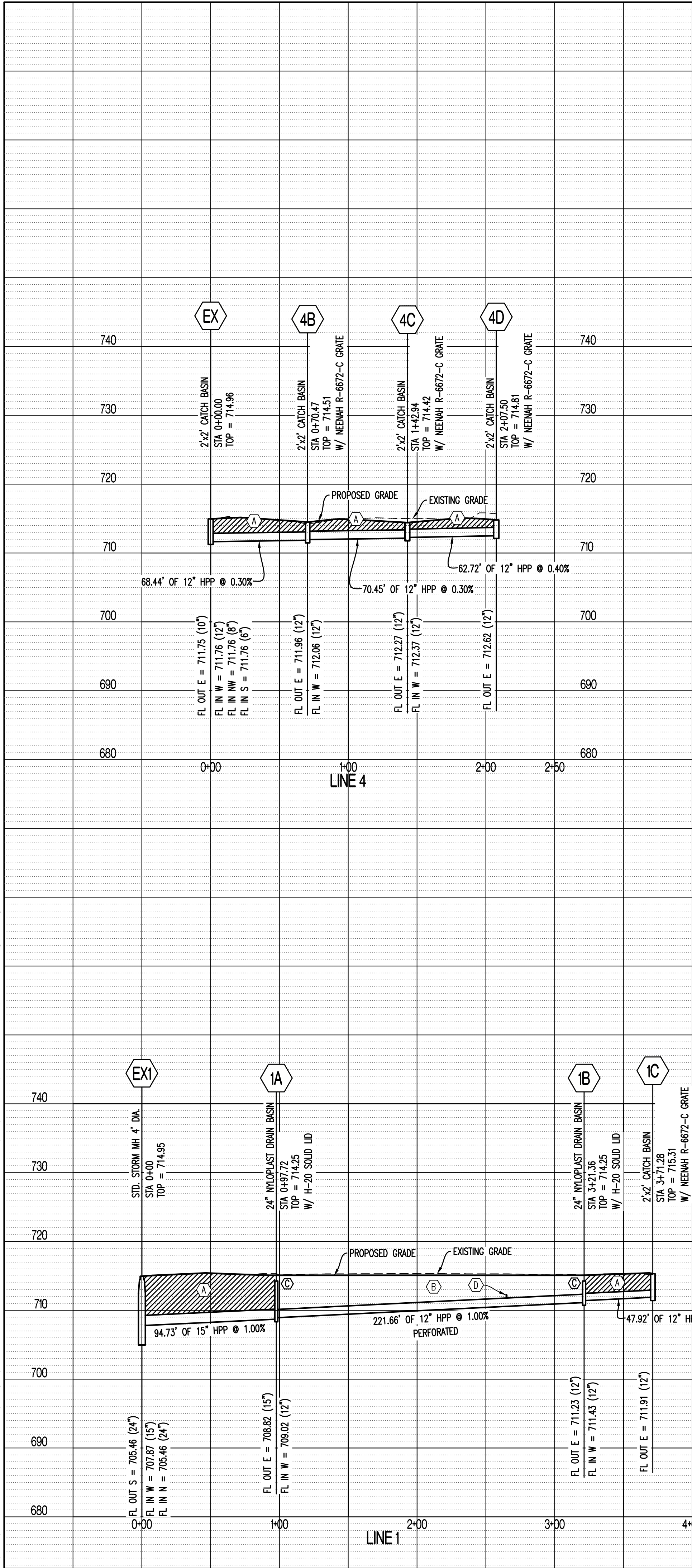
DRAWN: JEE

PROJECT NO.: 230519

SHEET:  
CE 4.0



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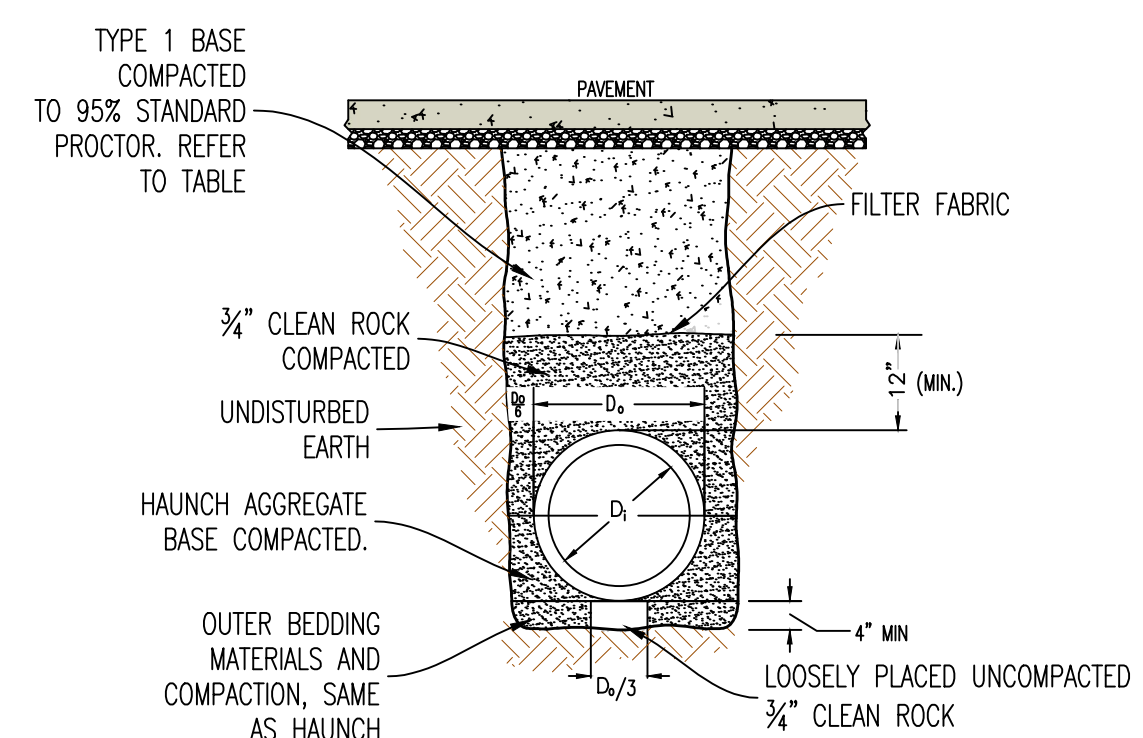


- NOTES:
1. CONCRETE SHALL BE CLASS E FOR BASES AND D FOR WALLS AND TOP.
  2. REINFORCING STEEL SHALL BE GRADE 60
  3. INSTALL WEEP HOLES AS PER DETAIL 500.04
  4. STRUCTURES WHERE H>8" SHALL BE REINFORCED CONCRETE (#4 BARS AT 12" CTRS, BOTH WAYS AND #4 BARS DIAGONAL AT PIPE OPENINGS)

CATCH BASIN (OPEN AREA)

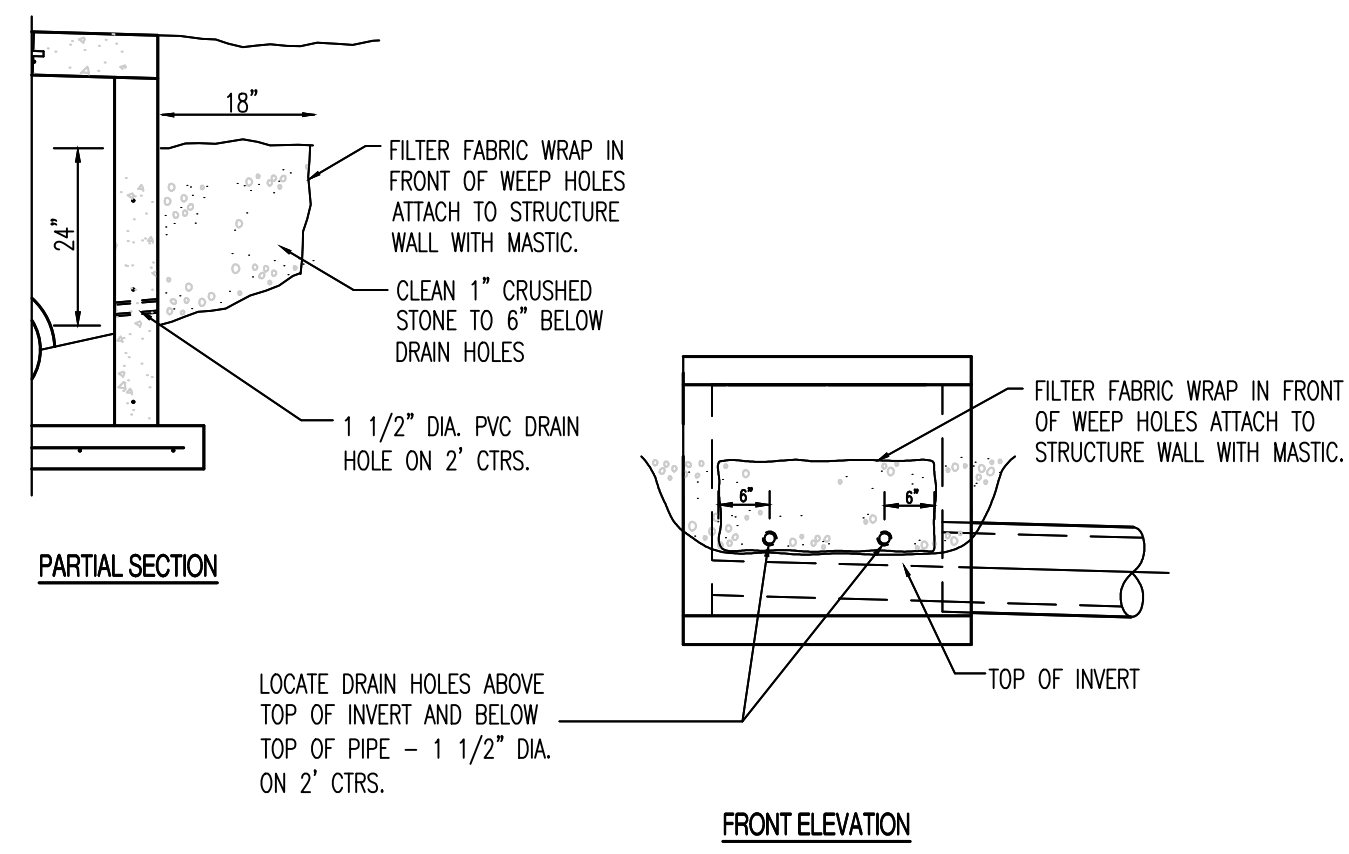
- LEGEND OF LABELS:
- (A) REFER TO PIPE EMBEDMENT DETAIL THIS SHEET
  - (B) COMPACTED EARTH FILL
  - (C) TOP ELEVATION OF STORM STRUCTURE IS SHOWN 10" BELOW TOP OF NATURAL GRASS.
  - (D) EXISTING UNDERGROUND ELECTRIC LINE. CONTRACTOR TO CONTRACT ENGINEERING IF CONFLICT ARISES. ADJUSTMENTS TO STORM SEWER OR ELECTRIC LINE MAY BE REQUIRED.

SCALE:  
HORIZ 1" = 60'  
VERT 1" = 10'



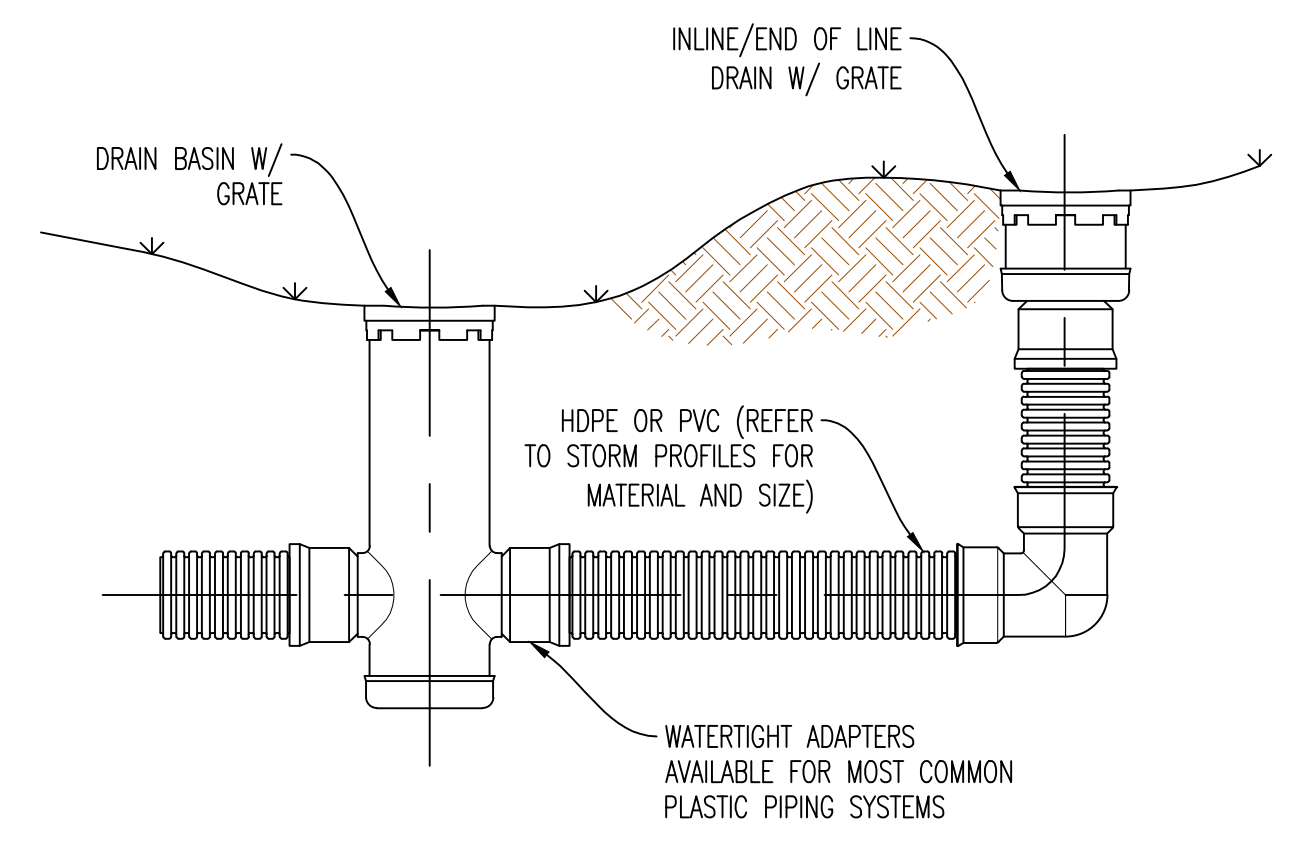
S1

PIPE EMBEDMENT (UNDER PAVEMENT)



S2

PIPE EMBEDMENT (NOT UNDER PAVEMENT)



S3

TYPICAL INSTALLATION OF NYLOPLAST DRAIN BASIN AND INLINE DRAIN

- NOTE:
1. PLACE WEEP HOLES ON UPSTREAM FACE OF ALL STRUCTURES AND ALSO ON ROADWAY FACE OF CURB INLET STRUCTURES.
  2. WEEP HOLE FILTER FABRIC SHALL CONSIST OF A NON-WOVEN, POLYPROPYLENE TYPE FABRIC SUCH AS: AMOCO 4553 NON-WOVEN GEOTEXTILE FABRIC OR APPROVED EQUAL.

DRAINAGE STRUCTURE WEEP HOLES (500.04)

REVISIONS:

NO.	DATE
BID SET	09/08/2025

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

STATE OF MISSOURI

TIMOTHY D. CROCKETT

REGISTERED PROFESSIONAL ENGINEER

NUMBER 252004000775

MISSOURI LICENSE 2004000775

PREPARED BY:

CROCKETT ENGINEERS & ARCHITECTS

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Missouri Certificate of Authority 1400303001

OWNER:

THE CURATORS OF THE UNIVERSITY OF MISSOURI

COLUMBIA, MISSOURI 65211

MU PROJECT #CP252172

WALTON STADIUM - TRACK & SOCCER SURFACE UPGRADE

COLUMBIA, BOONE COUNTY, MISSOURI

DRAWING INCLUDES:

STORM SEWER PROFILES AND DETAILS

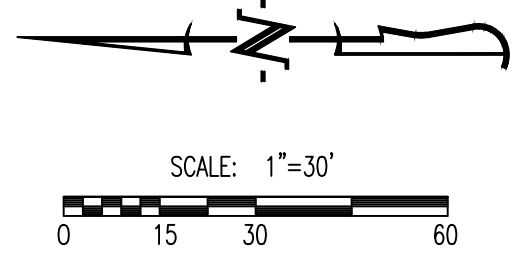
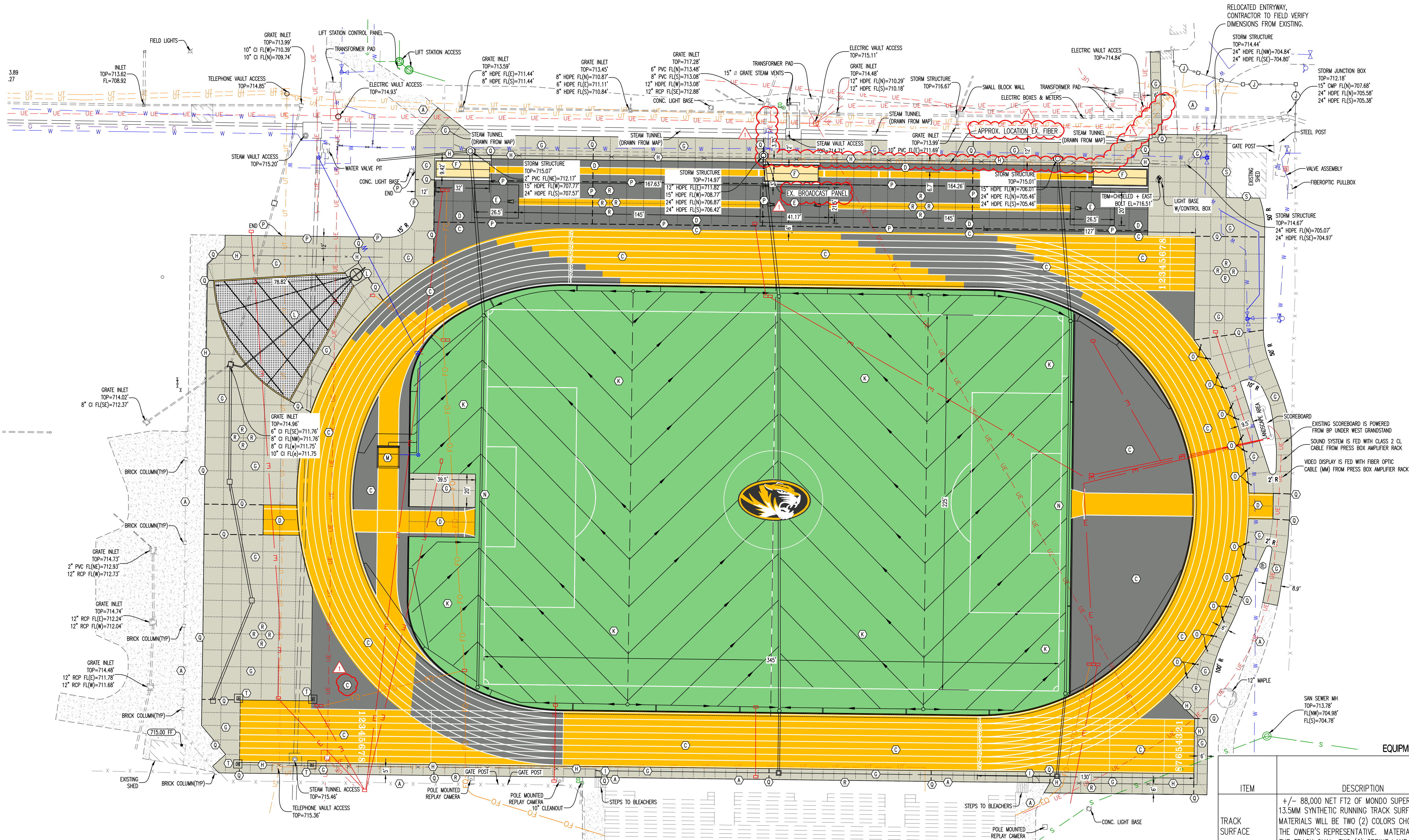
DESIGNED: TDC

DRAWN: JEE

PROJECT NO.: 230519

SHEET: CE 5.0





CONSTRUCTION NOTES:

A	CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DESTRUCTION OF FENCES, SIDEWALK, CURBS, UTILITIES, GRASS, BLEACHERS, ETC. REPAIR OF THESE ITEMS SHALL BE INCLUDED IN THE CONTRACTOR'S BID. ALL ITEMS SHALL BE REPAIRED TO EXISTING OR BETTER CONDITION PRIOR TO FINAL ACCEPTANCE.	G	INSTALL CONCRETE SIDEWALK PER PLAN DIMENSIONS. REFER TO DETAIL ON CE 7.0.	P	INSTALL THICKENED EDGE SIDEWALK. REFER TO DETAIL ON SHEET CE 7.0.
B	CONTRACTOR LAY DOWN AREA SHALL BE THE EXISTING SOFTBALL FIELD LOCATED TO THE SOUTHWEST OF THIS PROJECT. CONTRACTOR TO COORDINATE WITH UNIVERSITY IF ADDITIONAL LAY DOWN AREA IS NEEDED.	H	INSTALL NEW 4' TALL BLACK VINYL CHAIN LINK FENCE. REFER TO DETAILS ON CE 7.3.	Q	INSTALL 1/2" EXPANSION JOINT. REFER TO DETAIL ON SHEET CE 7.0. REFER TO SYNTHETIC RUNNING TRACK SURFACING SPECIFICATIONS FOR JOINTS UNDER TRACK SURFACE.
C	CONTRACTOR TO INSTALL OWNER SUPPLIED TRACK SURFACE (MONDO SUPER X720) ON ASPHALT PER SPECIFICATIONS AND MANUFACTURES RECOMMENDATIONS. REFER TO DETAILS ON CE 7.0.	I	INSTALL NEW 4' TALL, 4' WIDE, BLACK VINYL CHAIN LINK GATE. REFER TO DETAILS ON CE 7.3.		
D	CONTRACTOR TO INSTALL OWNER SUPPLIED TRACK SURFACE (MONDO SUPER X720) ON CONCRETE PER SPECIFICATIONS AND MANUFACTURES RECOMMENDATIONS AS SHOWN ON DETAILS CE 7.0.	J	INSTALL NEW FACILITY ACCESS WITH NEW BRICK COLUMNS (REFER TO DETAIL ON CE 7.3) WROUGHT IRON FENCING AND GATES SHALL MATCH EXISTING.	R	INSTALL CONTROL JOINT. REFER TO DETAIL ON SHEET CE 7.0. REFER TO SYNTHETIC RUNNING TRACK SURFACING SPECIFICATIONS FOR JOINTS UNDER TRACK SURFACE.
E	CONTRACTOR TO INSTALL CONCRETE POLE VAULT PAD PER PLAN DIMENSIONS WITH (4) VAULT BOXES (UCS MODEL #725-2596), COLOR YELLOW AND (4) BOX COVERS. CONTRACTOR TO ENSURE VAULT BOX IS INSTALLED AT THE CORRECT ELEVATION TO ACCOMMODATE TRACK SURFACE. REFER TO DETAILS ON CE 7.1.	K	INSTALL NEW SOCCER FIELD WITH DRAINAGE AND IRRIGATION. REFER TO PLANS INCLUDED IN THIS SET BY VSR DESIGN.	S	INSTALL 3/4" EXPANSION JOINT ADJACENT TO EXISTING BUILDING. REFER TO DETAIL ON SHEET CE 7.1.
F	CONTRACTOR TO INSTALL JUMP PIT. EACH PIT SHALL BE CONSTRUCTED WITH UCS ATHLETICS LJ/TJ PIT FORM, SAND CATCHER (UCS MODEL #519-3215). ONE PIT SHALL INCLUDE RECESSED ALUMINUM COVER. ALL PITS SHALL INCLUDE MESH PIT COVERS (UCS MODEL #519-1232). MONDO SURFACE SHALL BE INSTALLED ON ALUMINUM RECESSED COVER. ALL SAND IN JUMP IT SHALL BE LONG JUMP/TRIPLE JUMP PIT SAND FROM WAUPACO SAND AND SOLUTIONS. REFER TO DETAILS ON CE 7.0.	L	INSTALL NEW SHOT PUT RING UCS MODEL #752-2592 AND THROWING AREA. REFER TO DETAILS ON SHEET CE 7.1. SHOT PUT LANDING AREA TO BE GAIL MATERIALS PRO GOLD PREMIUM SHOT PUT MIX (OR APPROVED EQUAL).	T	CONSTRUCT FOUNDATIONS FOR FUTURE PAVILION. REFER TO STRUCTURAL PLANS. TOP OF PLASTER ELEVATION SHALL BE 715.65.
		M	INSTALL STEEPLE CHASE JUMP PIT CONFORMING TO WORLD ATHLETICS DIMENSIONAL SPECIFICATIONS. INSTALL ADJUSTABLE WATER JUMP BARRIER (UCS MODEL #506-5413) WITH WATER JUMP BARRIER SEAL (UCS MODEL #506-5419). BARRIER SEAL SHALL BE CUSTOMIZED BY BEING BLACK WITH OVAL WIZZOU TIGER HEAD LOGO PLACED ON BOTH SIDES. JUMP PIT FORM SHALL BE UCS MODEL #506-6050.		
		N	PROVIDE NEW SOCCER GOALS. GOALS TO BE UCS PORTABLE 900-8024R2.		
		O	CONTRACTOR TO INSTALL (20) - 1.5" PVC SLEEVES, 18" DEEP FOR FLAG POLES. CONTRACTOR TO PROVIDE RUBBER CAP FOR EACH SLEEVE. CONTRACTOR TO COORDINATE VERIFY FLAG POLE DIAMETER AND SLEEVE SIZE WITH MU PRIOR TO INSTALLATION.		

NOTES:

- CONTRACTOR TO SUPPLY TRACK COLORS AND MARKINGS DIAGRAM FOR APPROVAL PRIOR TO TRACK INSTALLATIONS. MARKINGS SHALL CONFORM TO WORLD ATHLETICS FOR ALL TRACK AND FIELD MARKINGS. SOCCER FIELD STRIPING BY OWNER.
- CONTRACTOR TO PROVIDE GREEN JACKET PERMEABLE GROW-IN COVER FOR SOCCER FIELD. BLANKETS SHALL COVER 360'x240' OF SURFACE AREA. CONTRACTOR TO ALSO PROVIDE COVER MASTER ROLLER SYSTEM.
- LOCATIONS AND MATERIALS OF TAKE OFF BOARDS FOR LONG AND TRIPLE JUMPS SHALL MEET WORLD ATHLETIC SPECIFICATIONS.
- THE PAVEMENT EXPANSION AND CONSTRUCTION JOINTS SHOWN ARE A GRAPHICAL REPRESENTATION OF A POSSIBLE JOINT LAYOUT. CONTRACTOR TO PROVIDE SHOP DRAWINGS WITH JOINT LAYOUT FOR APPROVAL BY ENGINEER PRIOR TO POURING OF PAVEMENT.

EXISTING UTILITY NOTE:

EXISTING UTILITIES ARE SHOWN BASED ON PREVIOUS DESIGN PLANS, FIELD LOCATES, MAPPING AND FIELD EVIDENCE. ACTUAL FIELD LOCATIONS AND SIZE MAY VARY FROM WHAT IS REPRESENTED ON THESE PLANS. CONTRACTOR TO CONTACT UNIVERSITY REPRESENTATIVE IF CONFLICTS WITH EXISTING AND PROPOSED UTILITIES ARISE.

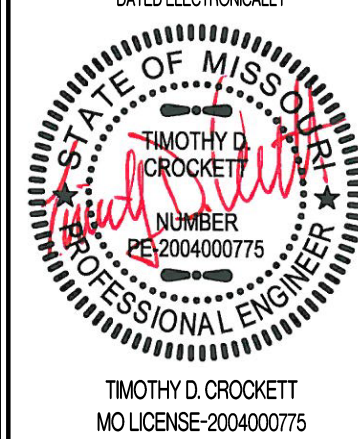
EQUIPMENT & SUPPLY MATRIX

ITEM	DESCRIPTION	PROVIDED BY		INSTALLED BY	
		OWNER	CONTRACTOR	OWNER	CONTRACTOR
TRACK SURFACE	+/- 88,000 NET FT2 OF MONDO SUPER-X 720 13.5MM SYNTHETIC RUNNING TRACK SURFACE. MATERIALS WILL BE TWO (2) COLORS CHOSEN BY THE OWNER'S REPRESENTATIVE. MATERIAL INCLUDES THE TRACK OVAL, TWO (2) SPRINT LANE EXTENSIONS, ONE (1) D-ZONE, ONE (1) STEEPLECHASE AREA AND THREE (3) RUNWAY EVENT AREAS	X			X
TRACK RAILING	RAIL SYSTEM - MONDO 400M	X			X
VAULT BOX	UCS MODEL W/FORM SYSTEM: 725-2596 (YELLOW BOXES) (ALUMINUM) WITH BOX COVERS		X		X
JUMP PITS	UCS ATHLETICS LJ/TJ PIT FORM, SAND CATCHER WITH ALUMINUM COVER [RECESSED] MODEL #519-3215 WITH MESH PIT COVERS (FOR WORLD ATHLETICS RULE & STANDARD COMPLIANCE)		X		X
TAKE OFF BOARDS	UCS GRAND PRIX TAKE OFF BOARD SYSTEMS FOR ALL BOARDS (12) TOTAL.		X		X
SHOT PUT RING	UCS SPIRIT MODEL #752-2592		X		X
SOCCER GOAL	MANUFACTURE: UCS SPIRIT [GOALS TO BE UCS WORLD COMPETITION SOCCER GOALS] MODEL: PORTABLE 900-8024R2		X		X
STEEPLE CHASE	WATER JUMP BARRIER: MODEL # 506-5413 & WATER JUMP BARRIER SEAL MODEL # 506-5419 WATER JUMP PIT FORM MODEL # 506-6050		X		X
FIELD BLANKETS	GREEN JACKET PERMEABLE GROW-IN COVER BLANKETS WITH MASTER ROLLER SYSTEM.		X		X

REVISIONS:

NO.	DATE
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Missouri Certificate of Authority  
#000000001

OWNER:  
THE CURATORS OF  
THE UNIVERSITY OF MISSOURI/COLUMBIA  
HEALTH SCIENCES  
COLUMBIA, MO 65211

MU PROJECT #CP252172  
WALTON STADIUM - TRACK & SOCCER SURFACE UPGRADE  
COLUMBIA, BOONE COUNTY, MISSOURI

DRAWING INCLUDES:

SITE PLAN

DESIGNED: TDC

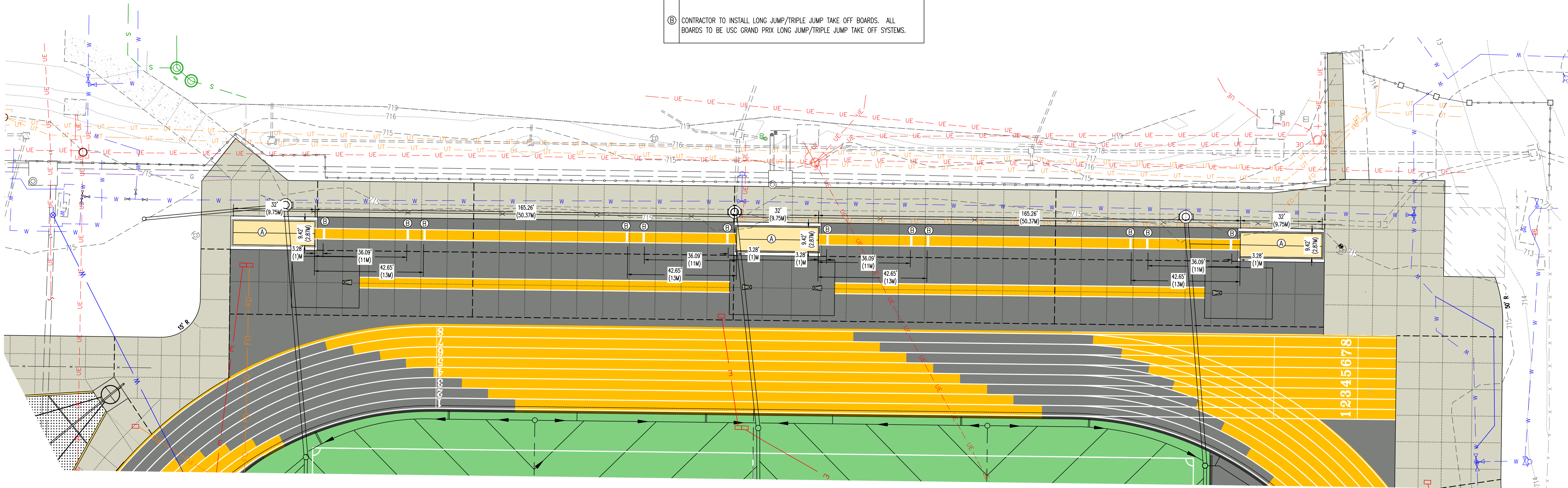
DRAWN: JEE

PROJECT NO.: 230519

SHEET:  
CE 6.0



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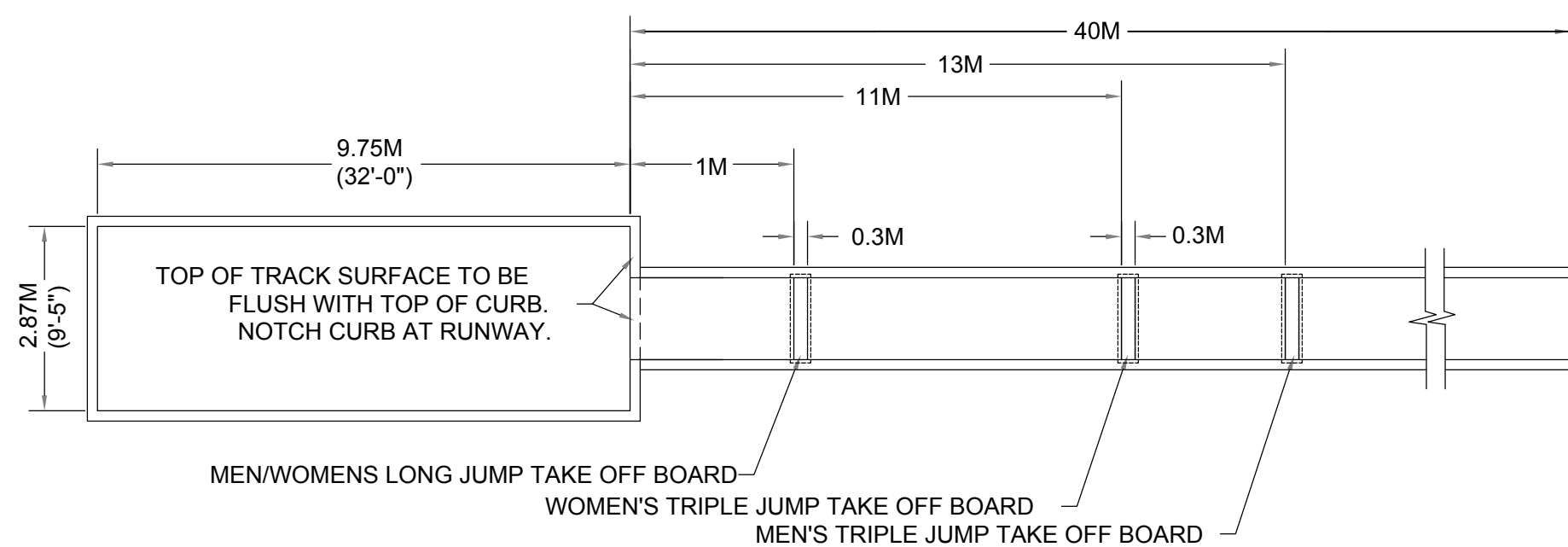
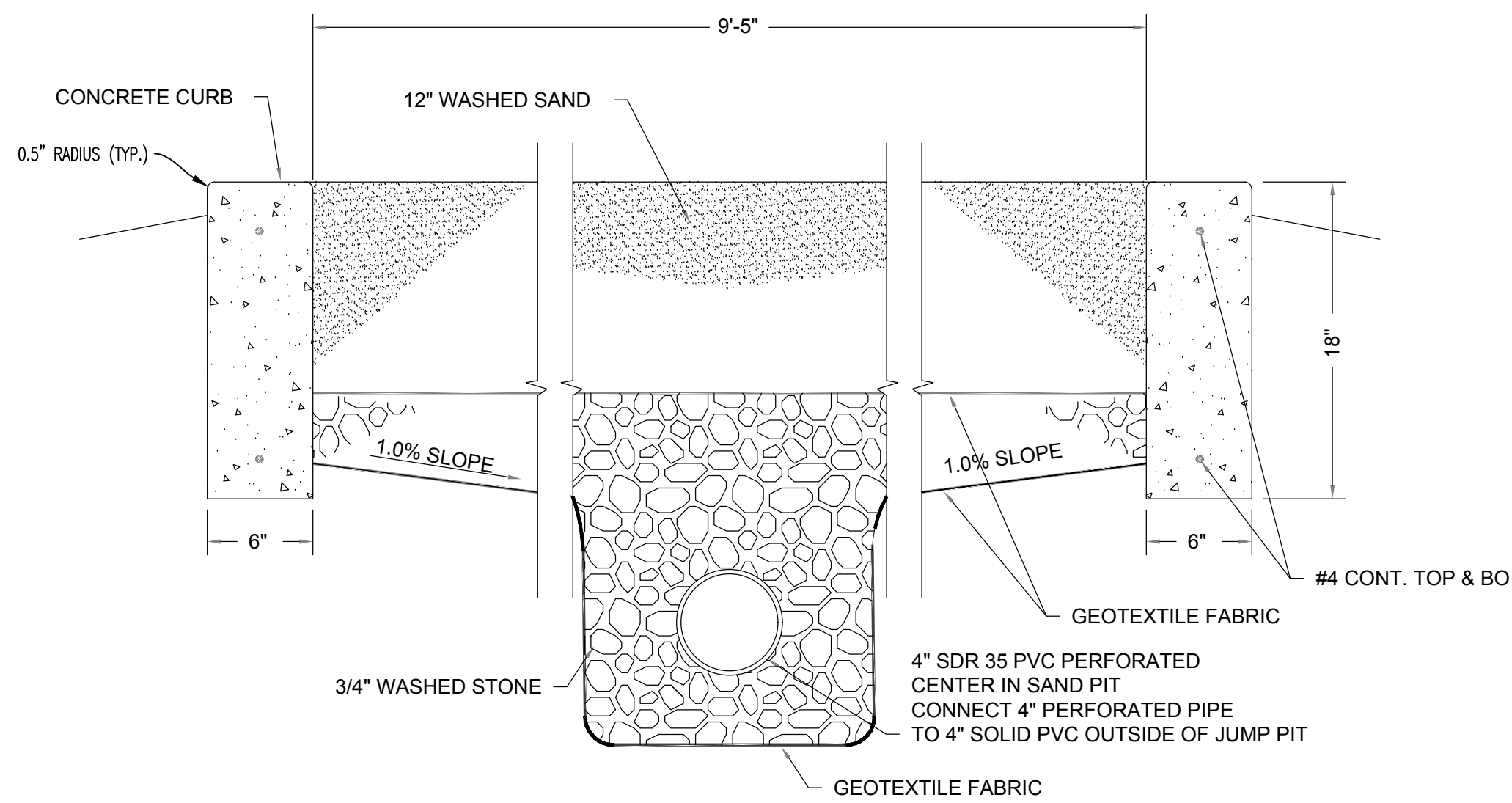
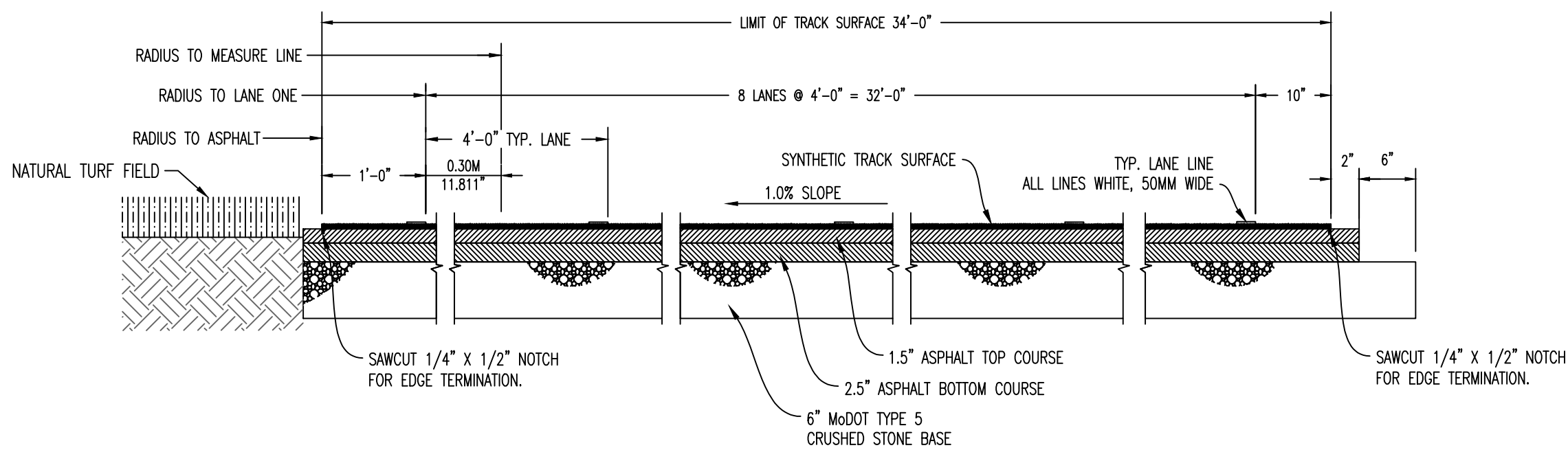
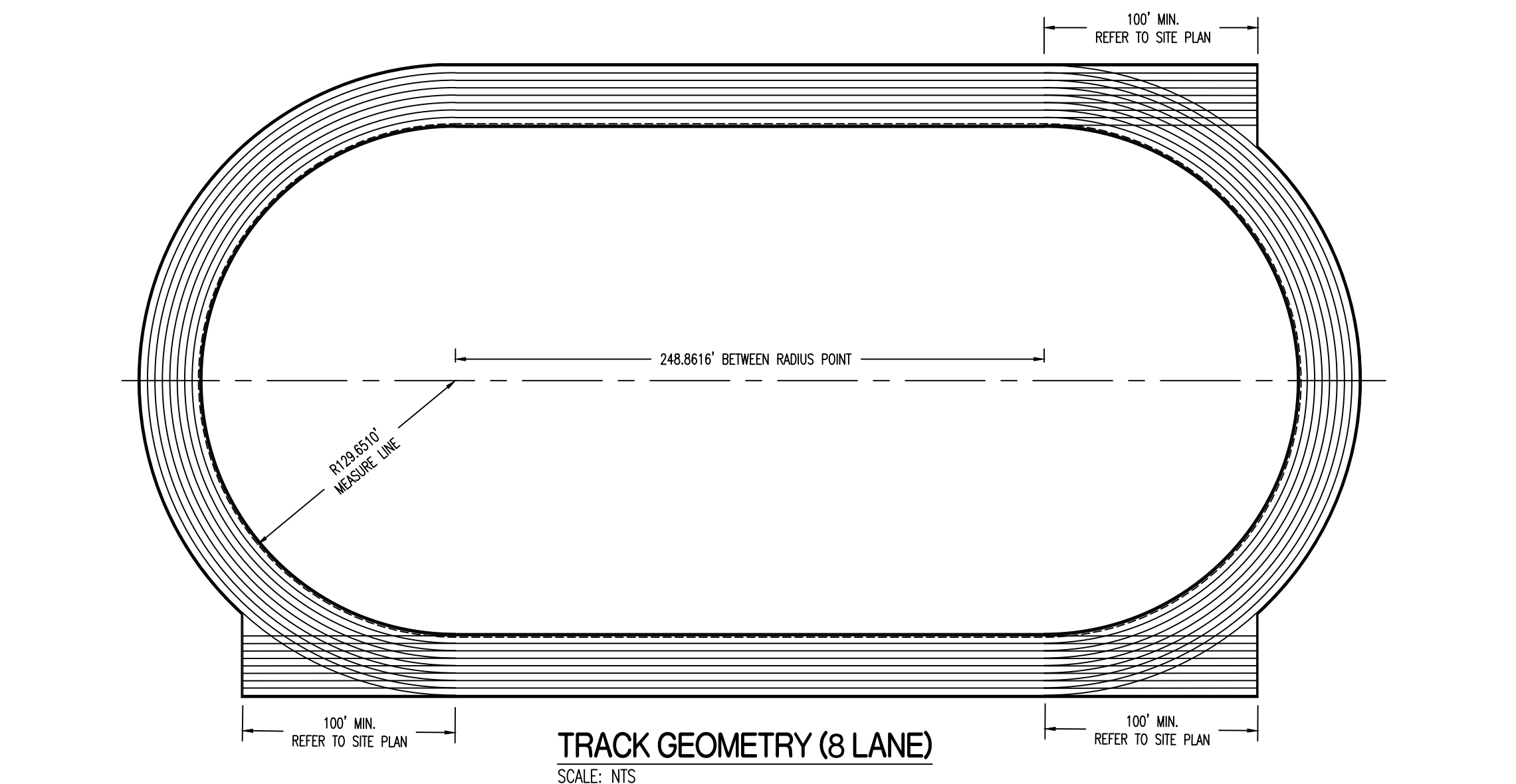
- LEGEND OF LABELS**
- (A) CONTRACTOR TO INSTALL JUMP PIT. EACH PIT SHALL BE CONSTRUCTED WITH UCS ATHLETICS LJ/TJ PIT FORM, SAND CATCHER (UCS MODEL #519-3215). ONE PIT SHALL INCLUDE RECESSED ALUMINUM COVER. ALL PITS SHALL INCLUDE MESH PIT COVERS (UCS MODEL #519-1232). MONDO SURFACE SHALL BE INSTALLED ON ALUMINUM RECESSED COVER. ALL SAND IN JUMP PIT SHALL BE LONG JUMP/TRIPLE JUMP PIT SAND FROM WAUPAGO SAND AND SOLUTIONS. REFER TO DETAILS ON CE 7.0.
- (B) CONTRACTOR TO INSTALL LONG JUMP/TRIPLE JUMP TAKE OFF BOARDS. ALL BOARDS TO BE USC GRAND PRIX LONG JUMP/TRIPLE JUMP TAKE OFF SYSTEMS.

**NOTE:**  
LOCATIONS AND MATERIALS OF TAKE OFF BOARDS FOR LONG AND TRIPLE JUMPS SHALL MEET WORLD ATHLETIC SPECIFICATIONS.

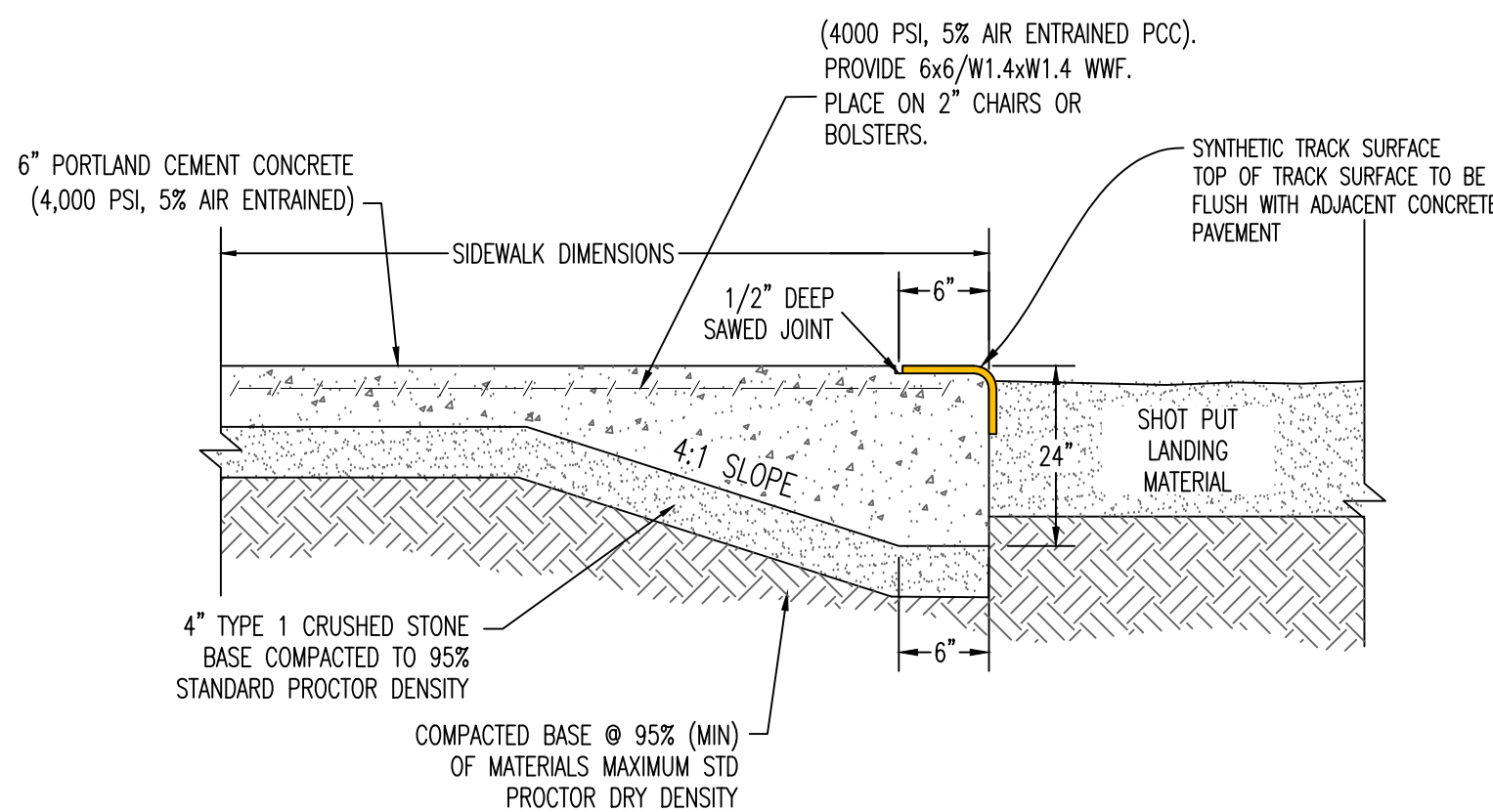
REVISIONS:	
NO.	DATE
BID SET	09/08/2025
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY	
TIMOTHY D. CROCKETT MISSOURI LICENSE 2004000775	
PREPARED BY:  ENGINEERING CONSULTANTS 1000 W. Illinois Blvd., Suite 100 Columbia, Missouri 65203 (314) 447-0292 www.crockettengineering.com Missouri Certificate of Authority #00000001	
OWNER: THE CURATORS OF THE UNIVERSITY OF MISSOURI HEALTH SCIENCES COLUMBIA, MO 65211	
MU PROJECT #CP252172 WALTON STADIUM - TRACK & SOCCER SURFACE UPGRADE COLUMBIA, BOONE COUNTY, MISSOURI	
DRAWING INCLUDES:  ENLARGED JUMPING EVENTS SITE PLAN	
DESIGNED:	TDC
DRAWN:	JEE
PROJECT NO:	230519
SHEET:	CE 6.1



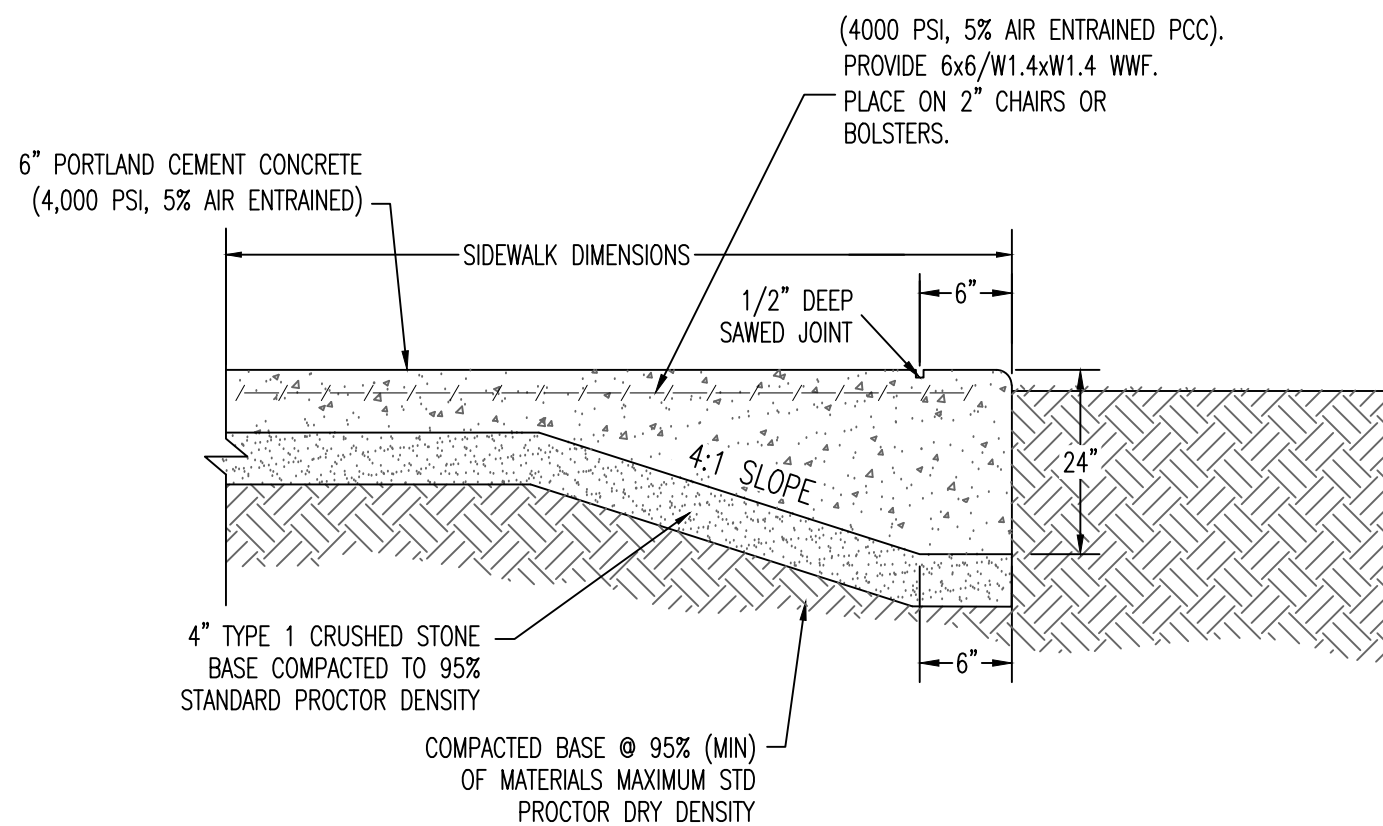
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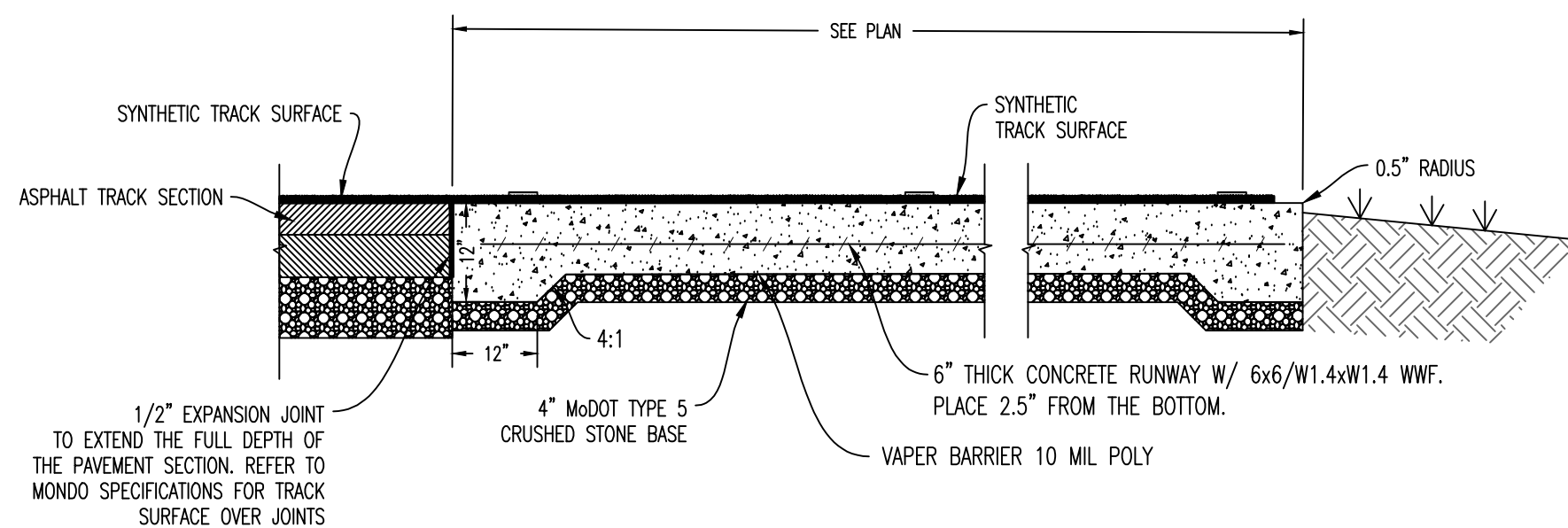
LONG/TRIPLE JUMP EVENT  
SCALE: NTS (METRIC)



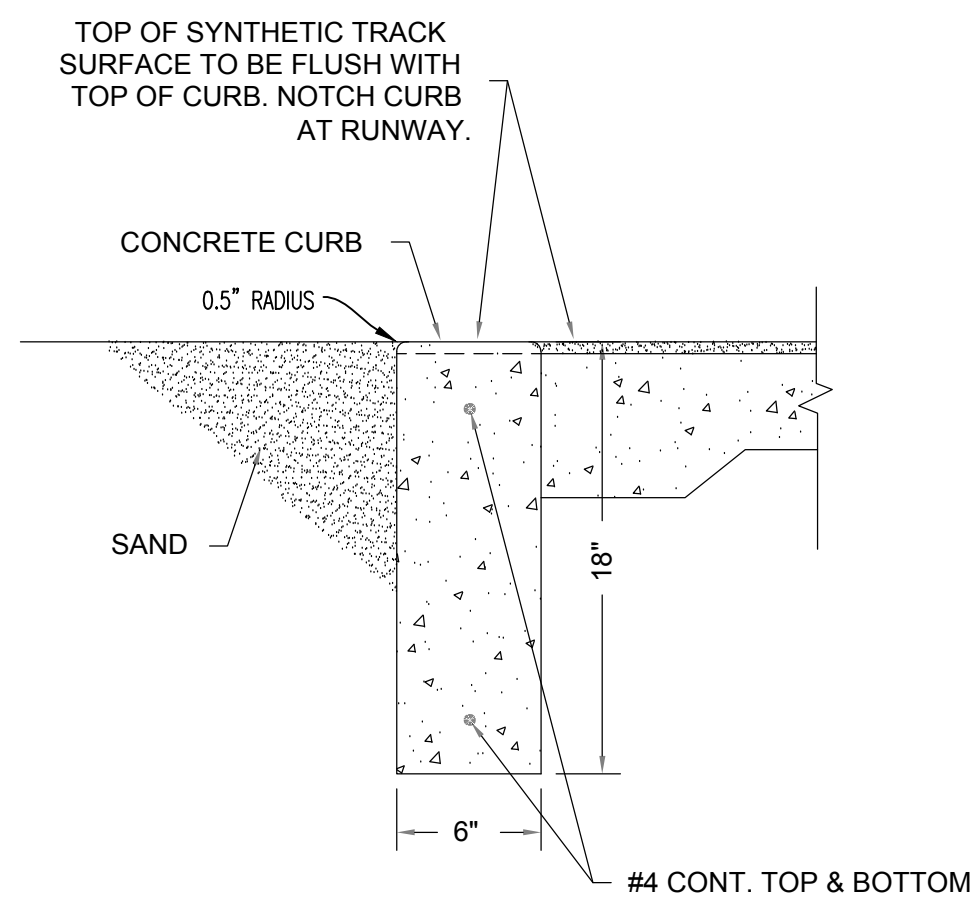
THICKENED EDGE SIDEWALK ABUTTING SHOTPUT



THICKENED EDGE SIDEWALK



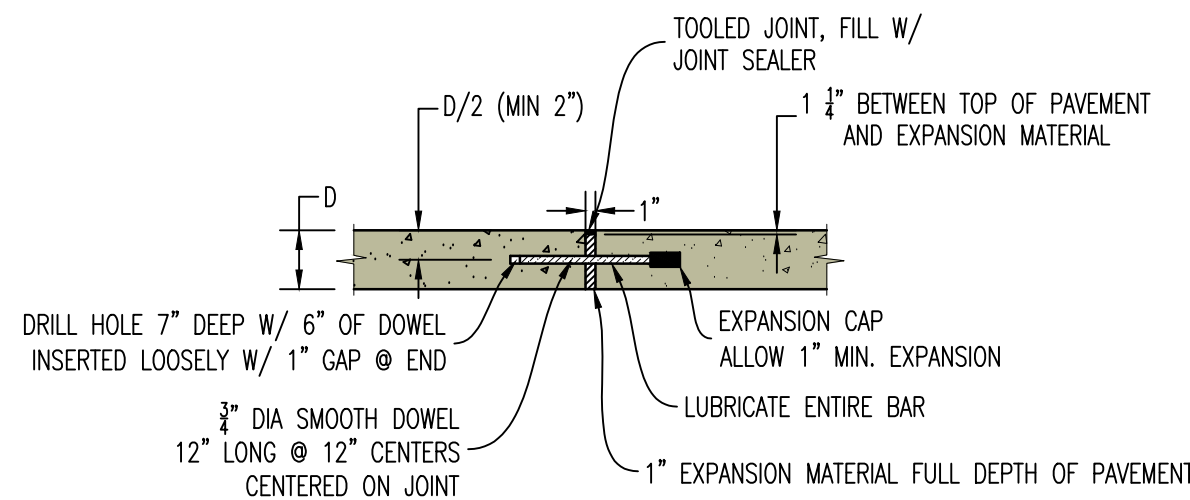
TRACK & RUNNING EVENTS TRANSITION  
SCALE: NTS



TYPICAL JUMP PIT CURB  
SCALE: 1 1/2" = 1'-0"

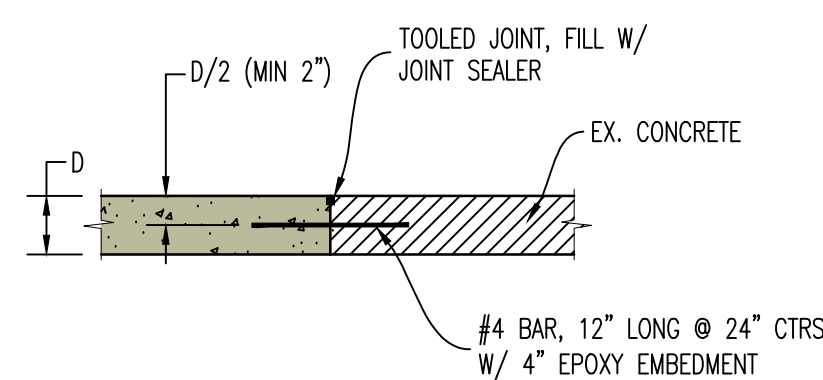
NOTE:

ALL TRACK AND FIELD EVENTS DIMENSIONS AND SPECIFICATIONS SHALL MEET WORLD ATHLETICS SPECIFICATIONS.

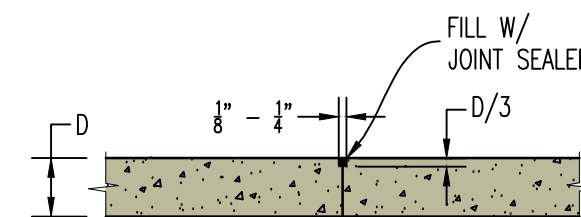


- NOTES:
- ALL BARS TO BE INSTALLED PERPENDICULAR TO EDGE AND IN SAME PLANE TO PREVENT LOCKING OF JOINT.
  - EDGE OF PAVEMENT TO BE SAWED/FORMED TO A CLEAN EDGE FOR INSTALLATION OF EXPANSION JOINT.

TYPE A - EXPANSION JOINT

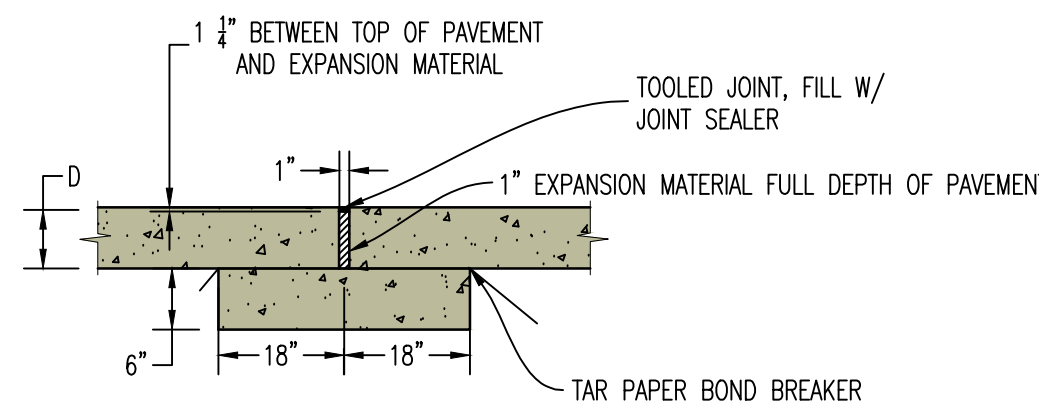


TYPE B - CONSTRUCTION JOINT



NOTE:  
MAXIMUM DISTANCE BETWEEN SAW JOINTS TO BE 12'

TYPE C - CONTROL JOINT 'SAWED'

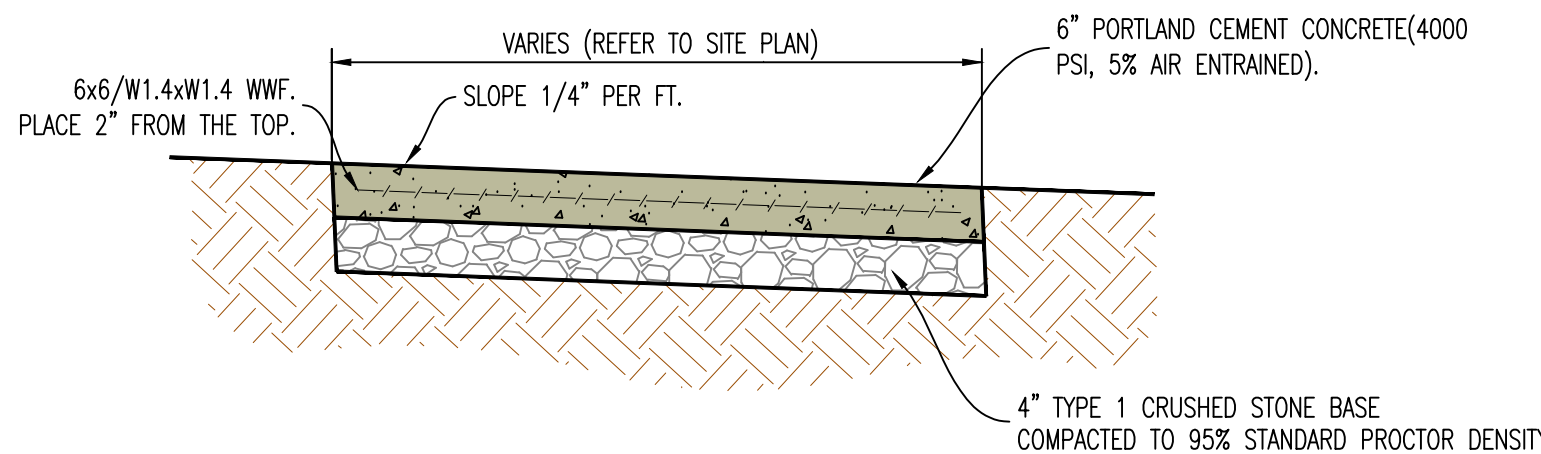


TYPE A ALTERNATE  
CONCRETE SILL

NOTE:  
JOINT SEALER TO BE BITUMINOUS SEALER OR  
NON-BITUMINOUS (COLOR GRAY)

P1

CONCRETE PAVEMENT JOINT DETAILS



NOTE:

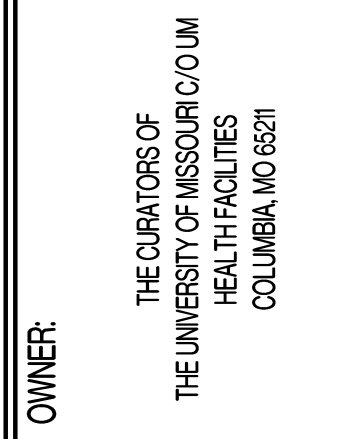
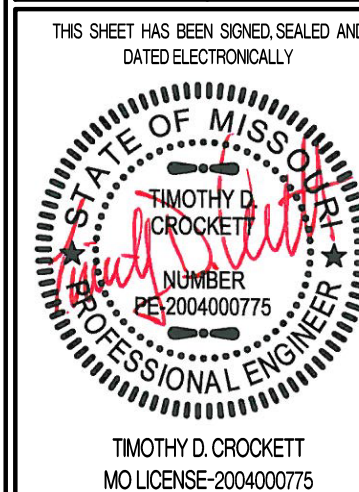
- INSTALL 1/2" EXPANSION JOINTS AT INTERSECTIONS, RAMPS, STRUCTURES, AND DRIVEWAY APPROACHES. MAX. EXPANSION JOINT SPACING = 150'
- INSTALL TRANSVERSE SAW JOINTS AT SPACING = SIDEWALK WIDTH.

P2

TYPICAL CONCRETE SIDEWALK

REVISIONS:

NO.	DATE
BID SET	09/08/2025



MU PROJECT #CP252172  
WALTON STADIUM - TRACK & SOCCER SURFACE UPGRADE  
COLUMBIA, BOONE COUNTY, MISSOURI

DRAWING INCLUDES:

TRACK DETAILS

DESIGNED: TDC

DRAWN: JEE

PROJECT NO.: 230519

SHEET:  
CE 7.0

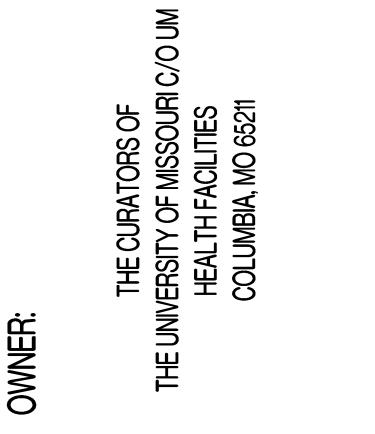


NOTE:

ALL TRACK AND FIELD EVENTS DIMENSIONS AND SPECIFICATIONS SHALL MEET WORLD ATHLETICS SPECIFICATIONS.

REVISIONS:

NO.	DATE
BID SET	09/08/2025

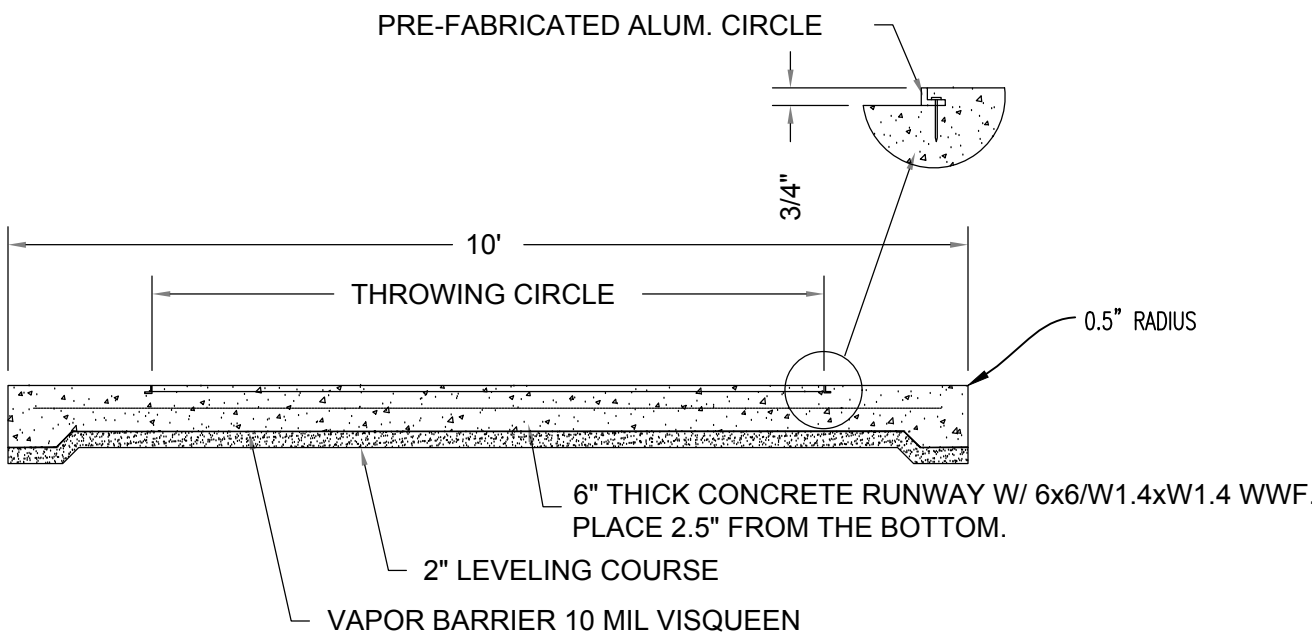


MU PROJECT #CP252172  
WALTON STADIUM - TRACK & SOCCER SURFACE UPGRADE  
COLUMBIA, BOONE COUNTY, MISSOURI

DRAWING INCLUDES:

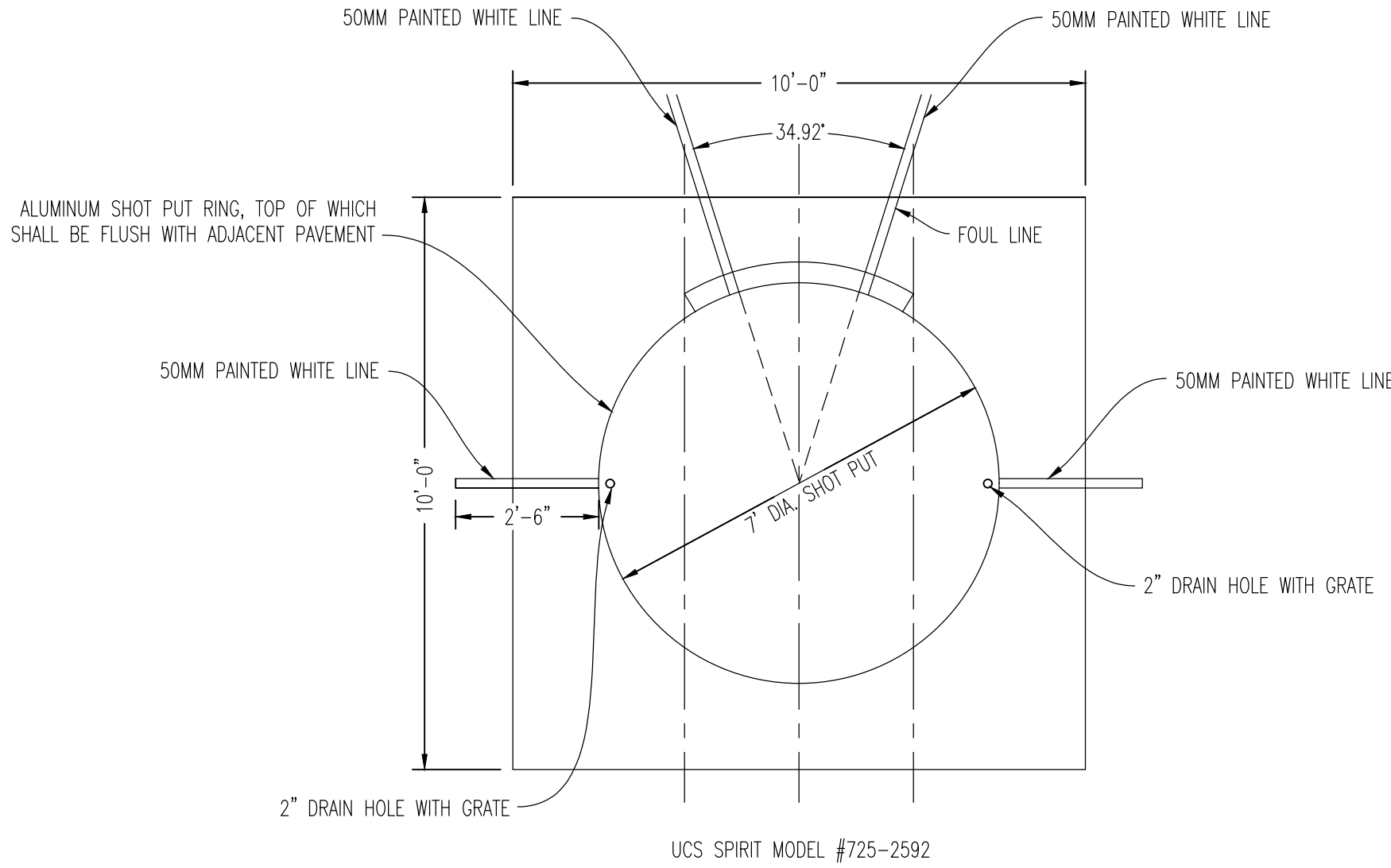
TRACK DETAILS  
CONTINUED

DESIGNED: TDC  
DRAWN: JEE  
PROJECT NO.: 230519  
SHEET:  
CE 7.1



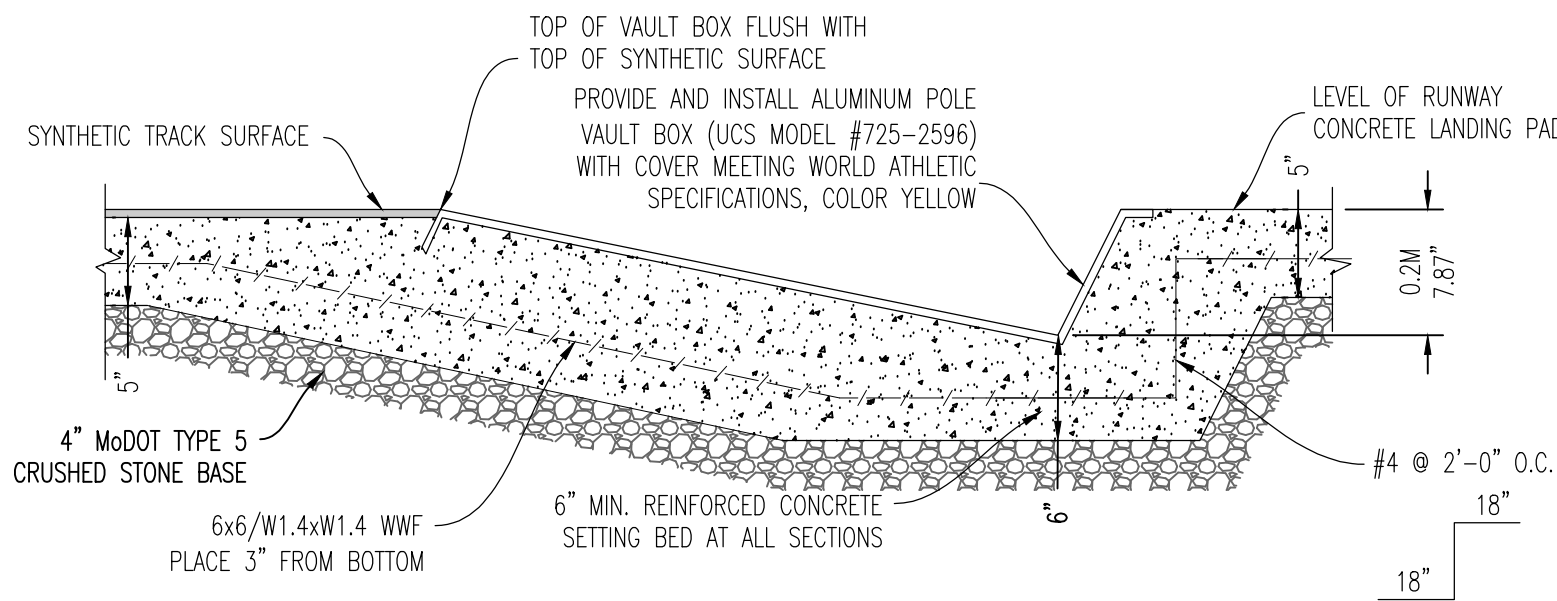
SECTION AT SHOT PAD

SCALE: 1/2" = 1'-0"



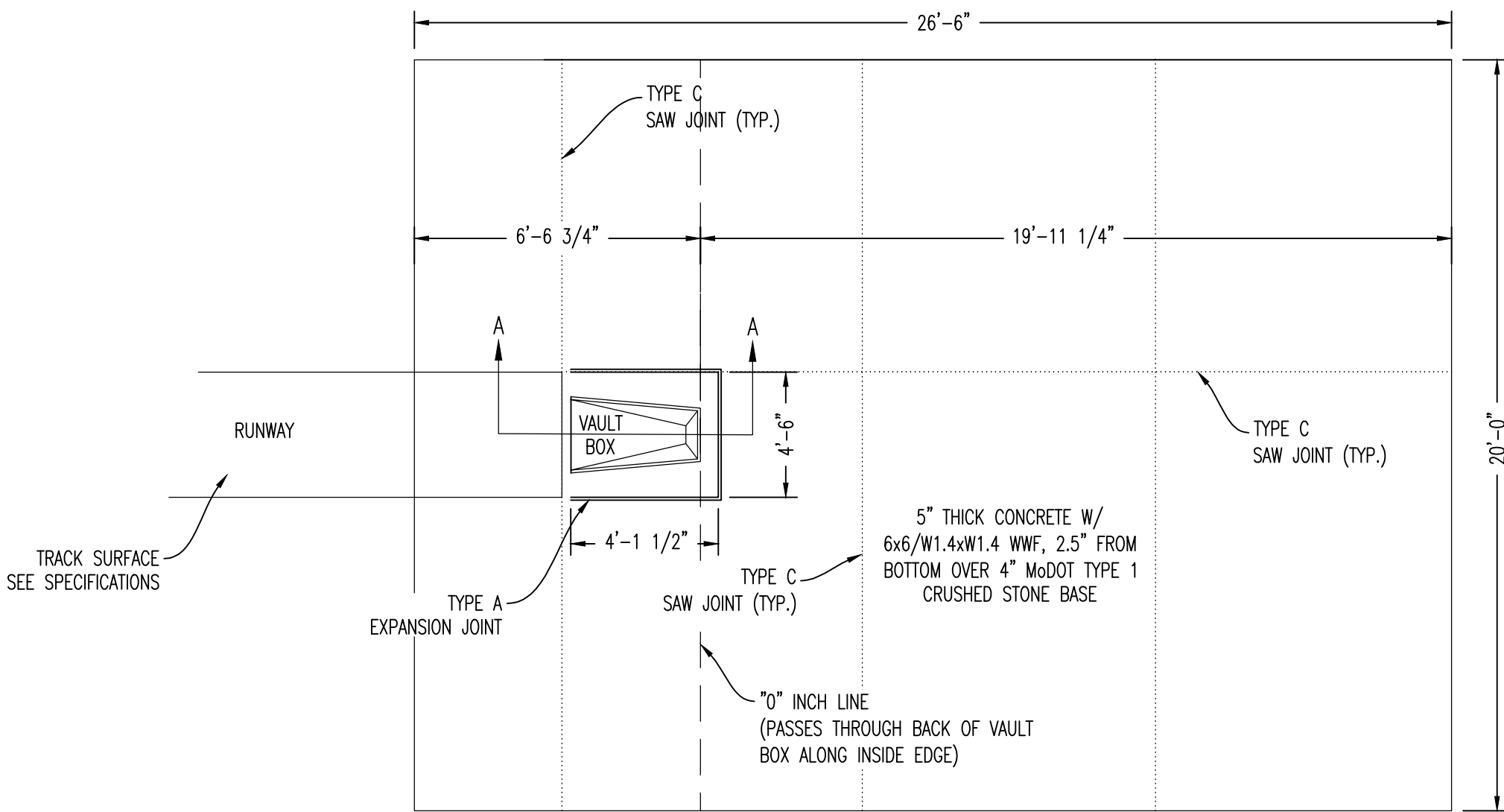
PLAN AT SHOT PAD

SCALE: NTS



SECTION A-A THRU VAULT BOX

SCALE: NTS



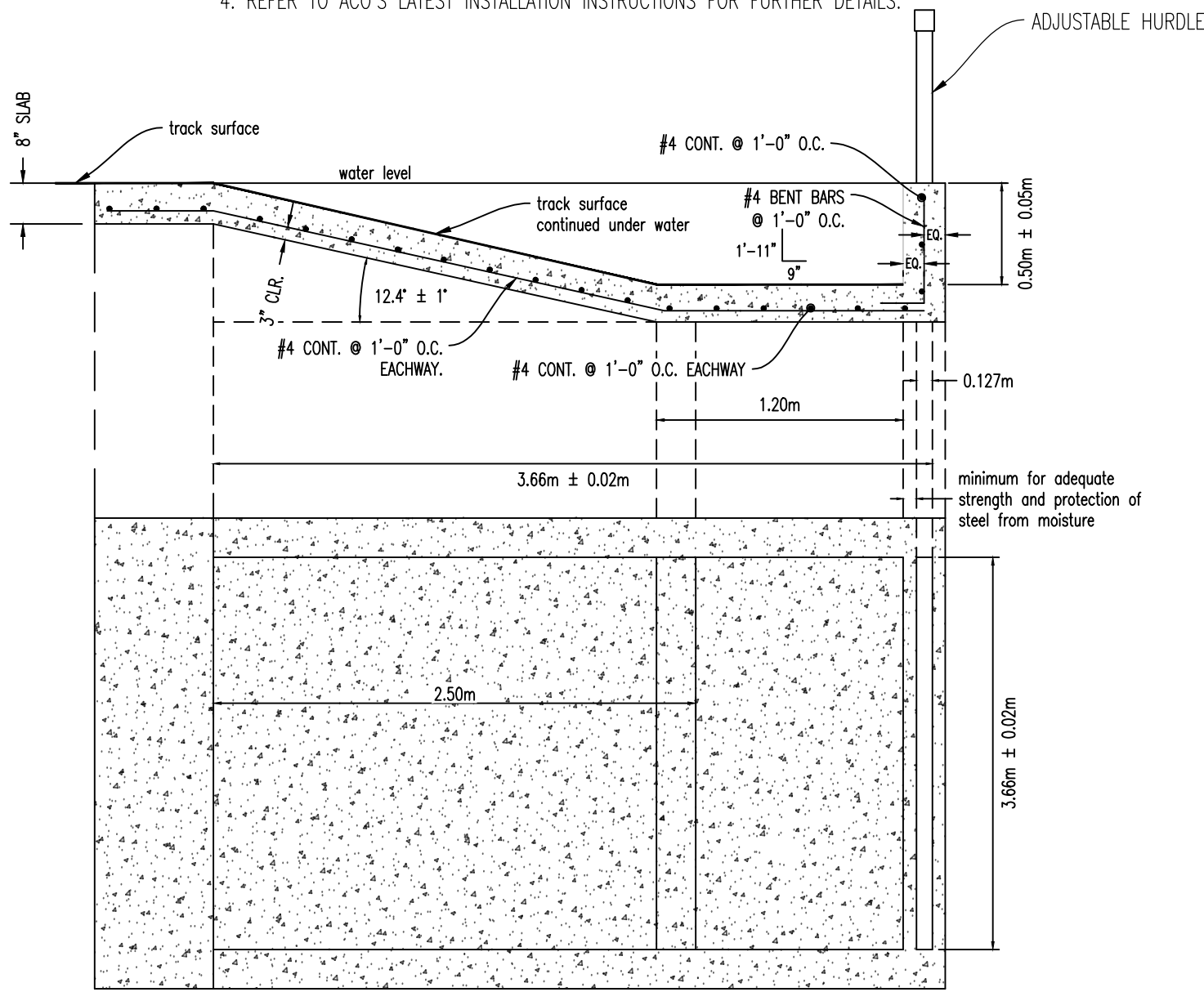
NOTE: PADS PROVIDED BY OWNER

PLAN AT VAULT BOX

SCALE: NTS

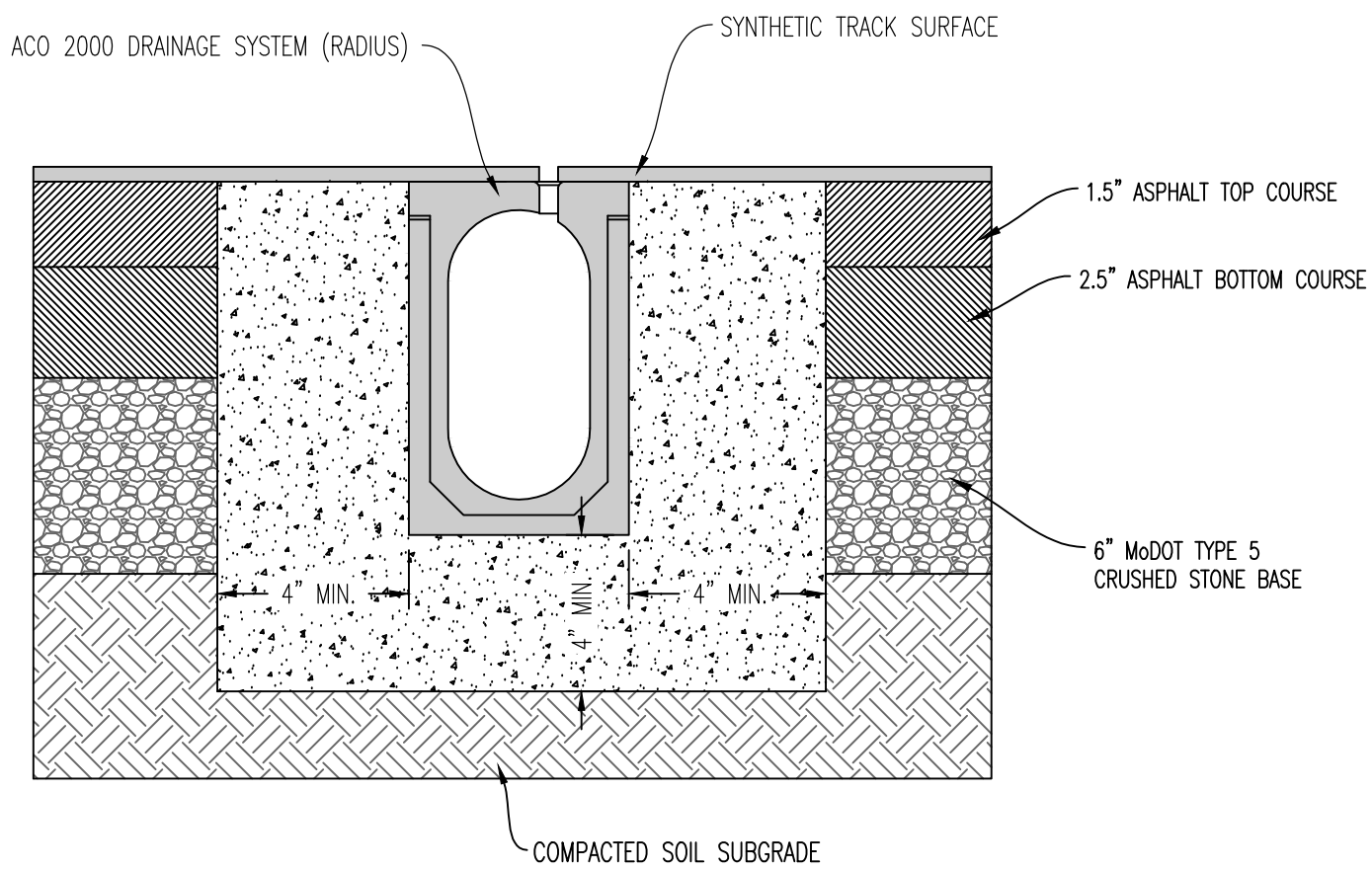
NOTES:

1. IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS.
2. MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND.
4. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.



WATER JUMP DETAIL

SCALE: NTS

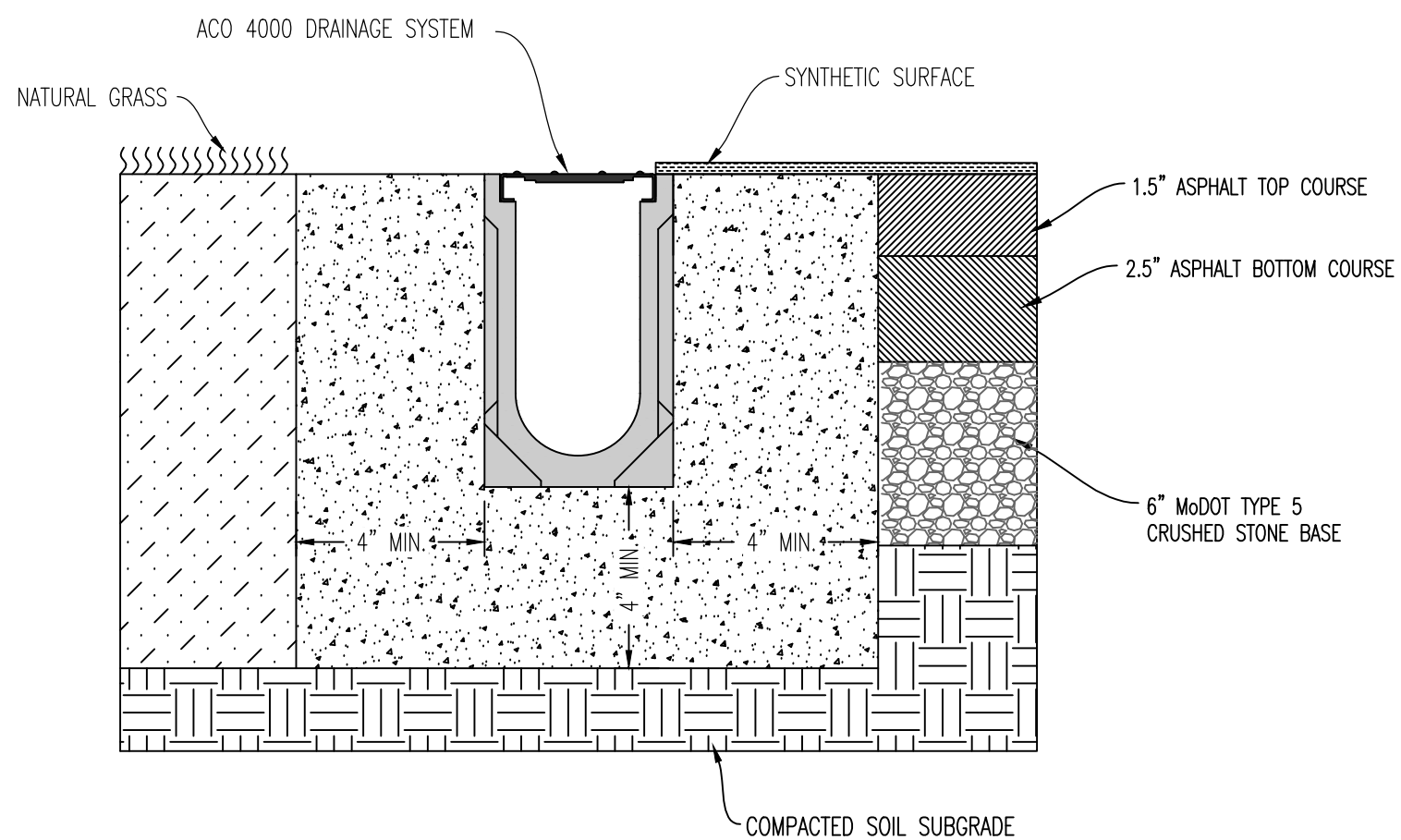


NOTES:

1. IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS.
2. MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND.
4. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

ACO 2000 DRAINAGE SYSTEM

SCALE: NTS

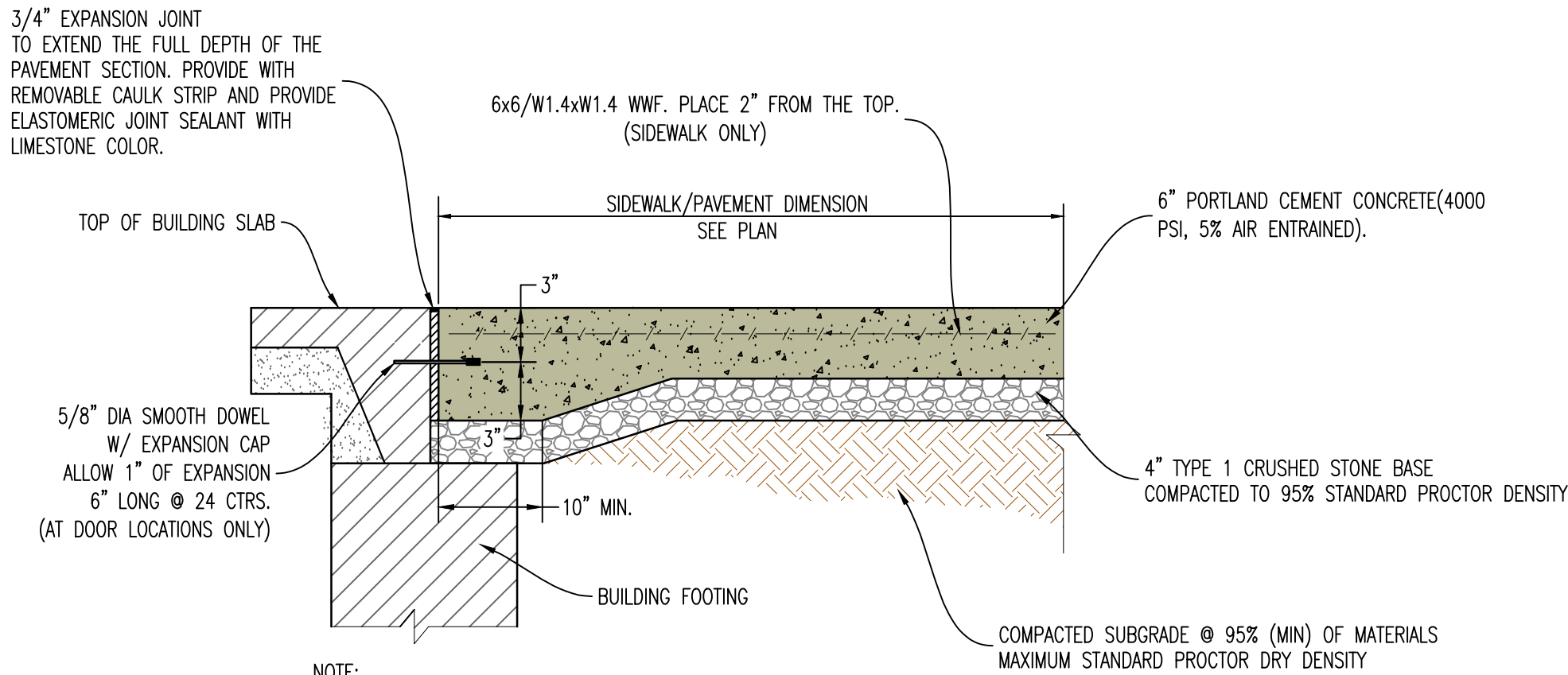


NOTES:

1. IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS.
2. MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND.
4. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

ACO 4000 DRAINAGE SYSTEM

SCALE: NTS



NOTE:

- ALL LOW VOLUME CHANGE MATERIAL IN LOCATIONS OF SIDEWALK/PAVEMENT PLACED NEXT TO BUILDING IS TO BE REMOVED COMPLETELY AND REPLACED WITH TYPE 1 CRUSHED STONE BASE COMPACTED TO 95% STANDARD PROCTOR DENSITY PRIOR TO SIDEWALK/PAVEMENT INSTALLATION.

SIDEWALK/PAVEMENT ABUTTING BUILDING

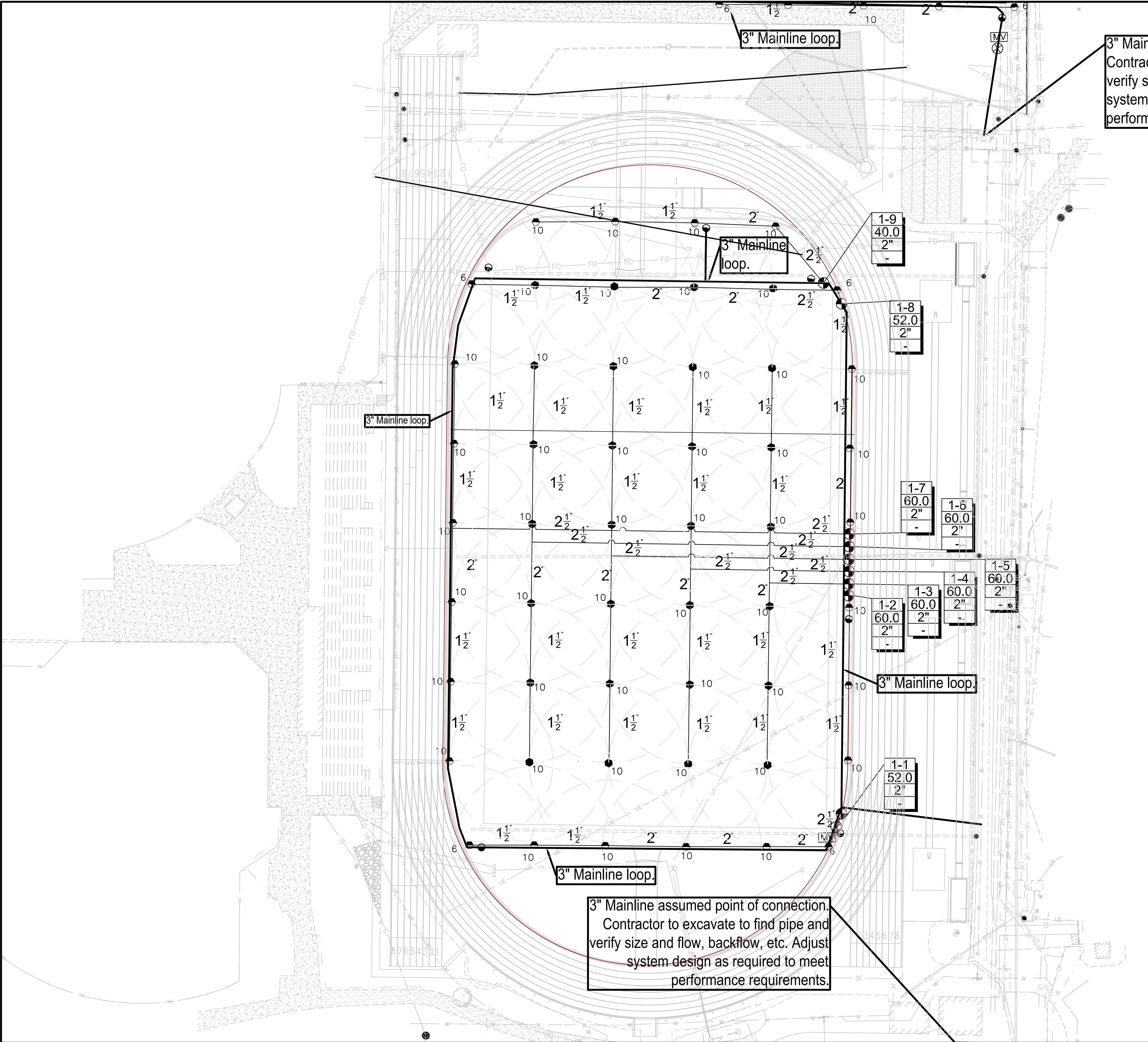












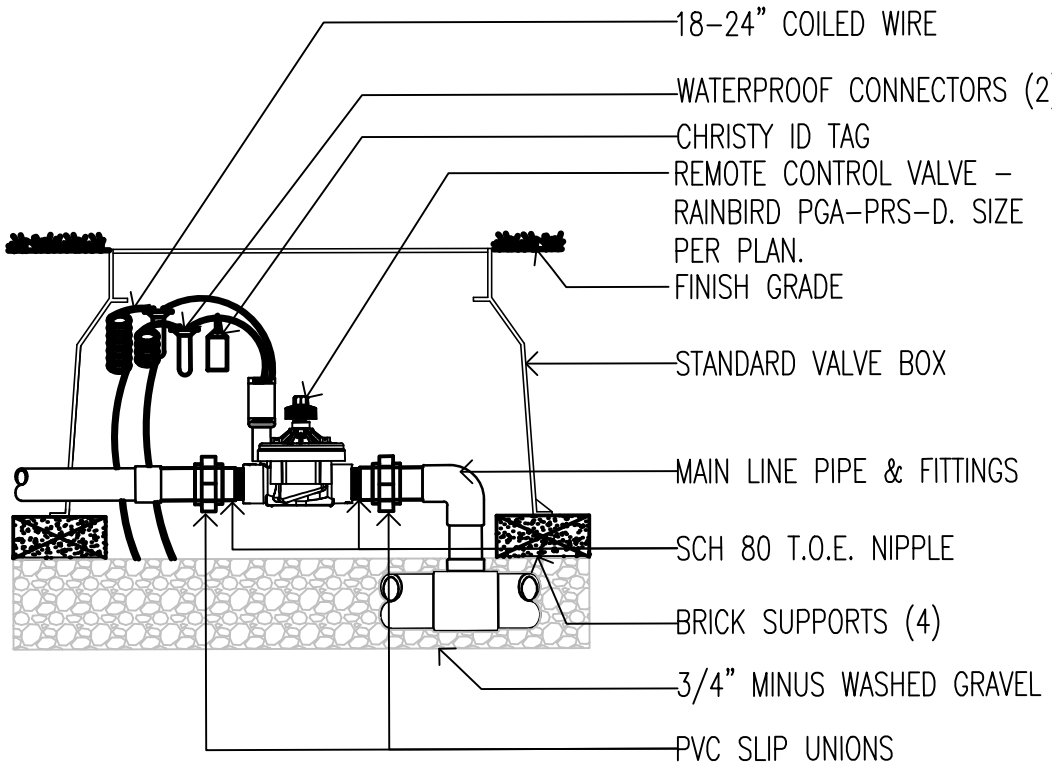
3" Mainline assumed point of connection. Contractor to excavate to find pipe and verify size and flow, backflow, etc. Adjust system design as required to meet performance requirements.

IRRIGATION GENERAL NOTES

- 1. DESIGN IS BASED ON A MINIMUM FLOW OF 80 GPM AND PRESSURE OF 80 PSI AT THE POINT OF CONNECTION.
- 2. MINIMUM PRESSURE AT FARTHEST HEAD SHALL BE A MINIMUM OF 60 PSI.
- 3. SPRINKLER LOCATIONS ARE TO SCALE. PIPE LOCATIONS ARE DIAGRAMMATIC. CONSULT WITH ARCHITECT IF CONSTRUCTION VARIES SIGNIFICANTLY FROM PLAN.
- 4. PROVIDE 2 QUICK COUPLING KEYS (1" MALE OUTLET) AND SH-2 SWIVEL HOSE ELL FOR EACH KEY.
- 5. CONTRACTOR SHALL UNCOVER AND VERIFY THE POINT OF CONNECTION INCLUDING BUT NOT LIMITED TO SIZE PRESSURE FLOW, BACKFLOW PROTECTION, ETC.

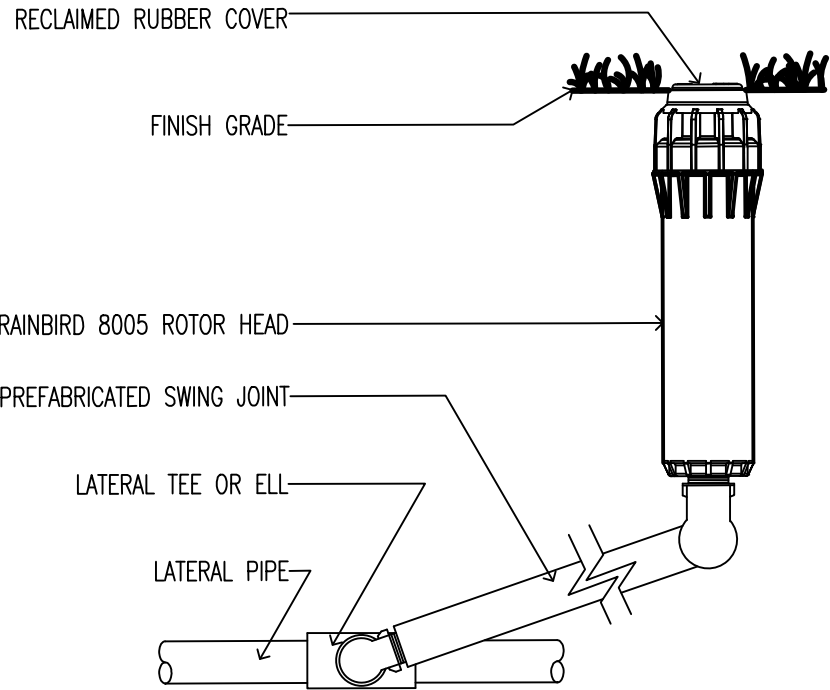
LEGEND

- [M] METER – EXISTING
- [Symbol] BACKFLOW PREVENTER – EXISTING
- [Symbol] MANUAL SHUT-OFF VALVE
- [Symbol] PAINBIRD PGA OR PEB REMOTE CONTROL VALVE
- [Symbol] 1" RAINBIRD QUICK COUPLING VALVE.
- [Symbol] RAINBIRD 6504-SS ROTOR WITH STAINLESS STEEL RISERS FULL CIRCLE PART CIRCLE AT ALL PERIMETER HEAD LOCATIONS.  
#10 OR #6 NOZZLES AS NOTED ON PLAN.  
PRESSURE = 60 PSI  
RADIUS = 55 & 47 FT.  
FLOW = #10 = 10.0 GPM & #6 = 6.0 GPM
- [A] CONTROLLER – EXISTING
- MAINLINE PIPE: PVC CLASS 200 – 3"
- LATERAL PIPE: PVC CLASS 200 (SIZE AS SHOWN)
- [Box 1-1: 50.8, 2", -] INDICATES CONTROLLER STATION NUMBER
- [Box 1-2: 60.0, 2", -] INDICATES LATERAL DISCHARGE IN GPM
- [Box 1-3: 60.0, 2", -] INDICATES REMOTE CONTROL VALVE SIZE



3 REMOTE CONTROL VALVE

SCALE: NTS



2 IRRIGATION HEAD

SCALE: NTS

REVISIONS:

NO.	DATE
SD SET	11/28/2023
DD SET	12/12/2023
CD REVIEW	7/10/2025
90% CD	8/1/2025
Bid Set	8/27/2025

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

PREPARED BY: VSR Design  
Landscape Architecture-Sports-Recreation-Golf  
ph: (613) 484-9211  
e: vance@vsrdesign.net

OWNER: THE CURATORS OF THE UNIVERSITY OF MISSOURI C/O UIM HEALTH FACILITIES COLUMBIA, MO 65211

MU PROJECT #CP241221  
AUDREY J. WALTON TRACK & SOCCER FIELD STADIUM  
SOCCER FIELD RENOVATIONS  
COLUMBIA, BOONE COUNTY, MISSOURI

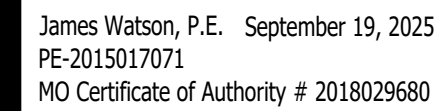
DRAWING INCLUDES:

DESIGNED:	xxx
DRAWN:	xxx
PROJECT	N0230519
SHEET:	PF 3.1

PLAYING FIELD IRRIGATION PLAN

SCALE: 1"=30'





2400 Bluff Creek Drive, Suite 10  
Columbia, Missouri 65201  
573.234.4492  
[www.j-squaredeng.com](http://www.j-squaredeng.com)

J2 PROJECT No: J21565J2 DESIGN: JAP

ISSUE TITLE	DATE
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BID SET	09 - 08 - 2025
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ADDENDUM #1	09 - 19 - 2025
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MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:  
**CP251272 Walton Stadium Track and  
Soccer Surface Upgrade**

**11100 Stadium Blvd Columbia, Boone County, MO 65203**

AHJ APPROVAL STAMP

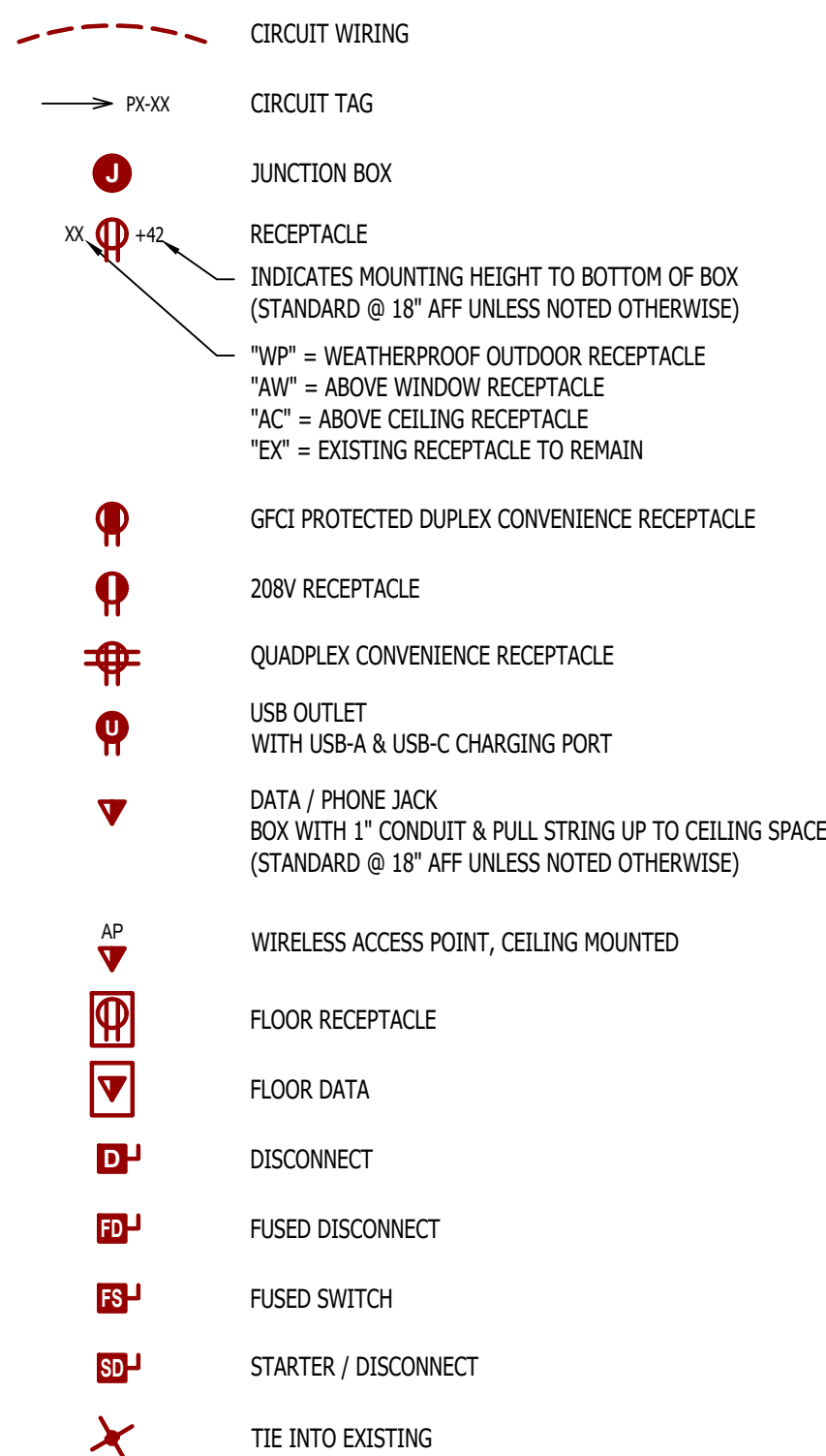
SHEET TITLE

## POWER PLAN

SHEET NUMBER

# EP101

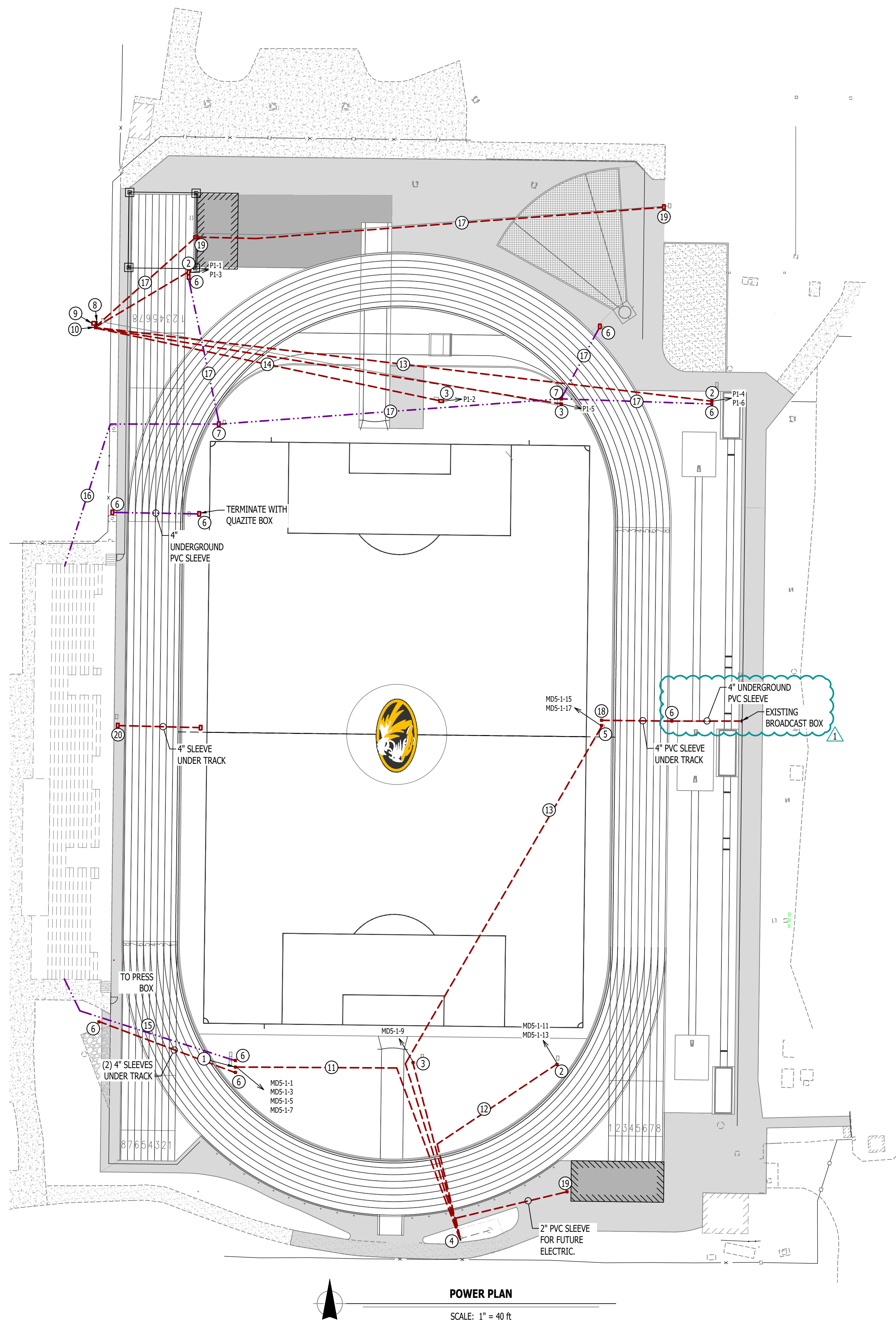
### POWER PLAN SYMBOL LEGEND

**POWER PLAN GENERAL NOTES:**

1. REFER TO E500 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES
2. ELECTRICAL CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL ELECTRICAL EQUIPMENT, WIRING, HANGERS / SUPPORTS, ETC. WITH HVAC AND PLUMBING TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.
3. ANY EXISTING ELECTRICAL EQUIPMENT, CIRCUITS, ETC. SHOWN IS FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR TO FIELD VERIFY EXACT EQUIPMENT LOCATIONS, CONDITIONS, ETC. PRIOR TO BEGINNING WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH MU DESIGN GUIDELINES. THESE CAN BE FOUND AT <https://www.umsystem.edu/umslra/facilities/guidelines/>

**POWER PLAN KEY NOTES:**

- ① POWER PEDESTAL EQUAL TO INTERMATIC #0P58K18 WITH MOUNTING PLATE M5P8KD. CONTRACTOR TO INSTALL (2) DUPLEX RECEPTACES AND CUT BUS TO ALLOW FOR SEPARATE CIRCUIT FOR BOTH TOP AND BOTTOM.
- ② POWER PEDESTAL EQUAL TO INTERMATIC #0P58K18 WITH MOUNTING PLATE M5P8KD. CONTRACTOR TO INSTALL (2) DUPLEX RECEPTACES. EACH DUPLEX TO HAVE A SEPARATE CIRCUIT.
- ③ POWER PEDESTAL EQUAL TO INTERMATIC #0P58K18 WITH MOUNTING PLATE M5P8KD. CONTRACTOR TO INSTALL (2) DUPLEX RECEPTACES.
- ④ EXISTING 120/208V, 200 AMP MCB PANEL. LABELED 'MDS-1'
- ⑤ TURF COMMUNICATIONS / POWER BOX (SEE DETAIL ON SHEET E501).
- ⑥ 12x12x12 OPEN BOTTOM QUIZITE BOX WITH TIER 22 LID LABELED "COMMUNICATIONS".
- ⑦ 18x15x12 COMMUNICATIONS TURF BOX PROVIDED BY TURF CONTRACTOR. SIMILAR TO SPORTSFIELD SPECIALTIES #CBTS1815. (3) 3" PVC CONDUIT TO TERMINATE IN BOTTOM OF BOX.
- ⑧ EXISTING PANEL 'DB1' (277/480V, 3PH, 42 CKT SIEMENS PANEL TYPE SE) INSTALL NEW 50-3 BREAKER IN SLOTS 31,33,35 TO FEED NEW 30 KVA STEPDOWN TRANSFORMER.
- ⑨ NEW 30 KVA NEMA 3R STEP DOWN TRANSFORMER (480V 3PH PRIMARY 120/208V, 3PH SECONDARY) LABEL T1
- ⑩ NEW 100 AMP MCB, 120/208V 3-PH NEMA 3R PANEL BOARD MOUNTED ON EXISTING STRUT RACK. LABEL 'P1'
- ⑪ (2) 1½" UNDERGROUND CONDUITS WITH (4) #6 CU & (1) #6 CU EQ. GRD. IN EACH.
- ⑫ 1½" UNDERGROUND CONDUITS WITH (4) #6 CU & (2) #6 CU EQ. GRD.
- ⑬ (2) 1½" UNDERGROUND PVC CONDUITS WITH (2) #4 CU & (1) #4 CU EQ. GRD. IN EACH.
- ⑭ 1" UNDERGROUND PVC CONDUIT WITH (2) #6 CU & (1) #6 CU EQ. GRD.
- ⑮ 3" UNDERGROUND PVC CONDUIT WITH PULLSTRING. CONDUIT SHALL RUN FROM QUIZITE BOX TO UNDERCROFT OF BLEACHERS. CONDUIT TO TURN UP ALONG SOUTH WALL. WEST OF DOUBLE DOORS.
- ⑯ 3" UNDERGROUND PVC CONDUIT WITH PULLSTRING. CONDUIT SHALL RUN FROM QUIZITE BOX TO UNDERCROFT OF BLEACHERS. CONDUIT TO TURN UP ALONG NORTH WALL. WEST OF DOUBLE DOORS.
- ⑰ 3" UNDERGROUND PVC CONDUIT WITH PULLSTRING.
- ⑱ TURF COMMUNICATIONS BOX (SEE DETAIL ON SHEET E501).
- ⑲ 12x12x12 OPEN BOTTOM QUIZITE BOX WITH TIER 22 LID LABELED "ELECTRIC".
- ⑳ 12x12x6 BOX MOUNTED ON FRONT OF BLEACHERS



## POWER PLAN

SCALE: 1" = 40 ft



ELECTRICAL SPECIFICATIONS

1. GENERAL
- 1.1. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY PIECES AND COMPONENTS TO PROVIDE A COMPLETE AND COMPLIANT ELECTRICAL SYSTEM UNLESS OTHERWISE NOTED ON PLANS.
- 1.2. THE ENTIRE ELECTRICAL SYSTEM SHALL BE CONTINUOUSLY GROUNDED. EVERY BRANCH CONDUIT SHALL INCLUDE A GREEN GROUND CONDUCTOR SIZED PER NEC.
- 1.3. ARC-FAULT CIRCUITS SHALL BE RUN WITH A DEDICATED NEUTRAL AS REQUIRED BY MANUFACTURER.
- 1.4. PROVIDE PERMANENT ARC-FLASH LABEL AFFIXED TO EVERY DISCONNECT AND PANEL.
- 1.5. PROVIDE TYPE WRITTEN PANEL SCHEDULE FOR EACH PANEL.
2. WORKMANSHIP
- 2.1. ALL ELECTRICAL SYSTEM COMPONENTS SHALL BE INSTALLED LEVEL, PLUMB, AND PARALLEL/PERPENDICULAR TO BUILDING ORIENTATION WHERE POSSIBLE.
- 2.2. ALL ELECTRICAL DEVICES AND LIGHT FIXTURES SHALL BE INSTALLED IN A SAFE, FIRST-CLASS MANNER WITH ATTENTION GIVEN TO OVERALL AESTHETICS.
- CARE SHOULD BE TAKEN TO ALLOW FOR FUTURE REPLACEMENT AND ACCESS FOR SERVICE.
3. MATERIALS
- 3.1. CONDUIT & CONDUCTORS
- 3.1.1. ALL CONDUCTORS SIZES INDICATED ARE COPPER UNLESS NOTED OTHERWISE ON PLANS.
- 3.1.2. ABOVE GRADE CONDUCTORS SHALL BE TYPE THHN.
- 3.1.3. BELOW GRADE CONDUCTORS SHALL BE TYPE XHHW-2.
- 3.1.4. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG UNLESS NOTED OTHERWISE. 120-VOLT, 20-AMP CIRCUITS WITH CONDUCTOR LENGTHS GREATER THAN 100' SHALL BE #10 AWG MINIMUM.
- 3.1.5. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MEASURING ACTUAL CONDUCTOR LENGTH AND INCREASING CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP AS REQUIRED BY NEC.
- 3.1.6. RIGID ALUMINUM CONDUIT SHALL BE USED FOR SERVICE WIRING.
- 3.1.7. ALL BELOW GRADE CONDUIT SHALL BE SCHEDULE 90 PVC CONDUIT.
- 3.1.8. EXPOSED CONDUIT SHALL BE PAINTED TO MATCH ADJACENT SURFACES, VERIFY COLOR WITH ARCHITECT/OWNER.
- 3.2. DEVICES
- 3.2.1. CONTRACTOR TO PROVIDE J-BOXES, COVER PLATES, AND ANY ACCESSORIES REQUIRED TO PROVIDE A COMPLETE SYSTEM. SEE ARCHITECTURAL PLANS FOR DEVICE COLORS.
- 3.2.2. DUPLEX RECEPTACLES SHALL BE TAMPER RESISTANT, 20-AMP, EQUAL TO LEVITON #TBR-20.
- 3.2.3. WHERE GFCI PROTECTION IS SHOWN ON PLANS AND UNLESS OTHERWISE NOTED, PROVIDE A LISTED GFCI-PROTECTED RECEPTACLE WHERE THE RECEPTACLE IS ACCESSIBLE ON PLANS. IF THE RECEPTACLE LOCATION IS NOT ACCESSIBLE AS DEFINED BY NEC, PROVIDE GFCI PROTECTION AT CIRCUIT BREAKER.
- 3.2.4. ALL APPLICABLE SWITCHES, RECEPTACLES, CONTROLS, ETC. SHALL BE MOUNTED AT ADA-ACCESSIBLE HEIGHTS.
- 3.2.5. WIRING DEVICES SHOWN ON PLANS NEXT TO ONE ANOTHER SHALL UTILIZE A SINGLE COVER PLATE UNLESS NOTED OTHERWISE.
- 3.2.6. EACH RECEPTACLE COVER SHALL BE NEATLY AND LEGIBLY LABELED WITH CORRESPONDING PANEL AND CIRCUIT NUMBER FOR CIRCUIT IDENTIFICATION.

NEW PANEL 'P1' SCHEDULE									
PANEL SPECIFICATIONS					TOTAL CONNECTED LOAD				
VOLTAGE: 120/208V 3-PH			NEMA RATING: 3R		PHASE "A" LOAD:		4.5 AMPS		
AMPACITY: 100A MCB			PANEL MOUNTING: SURFACE		PHASE "B" LOAD:		3 AMPS		
AIC-RATING: 22kA					PHASE "C" LOAD:		4.5 AMPS		
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	
1	FILED OUTLET	20-1	1.5	A	3	20-1	FIELD OUTLET	2	
3	FILED OUTLET	20-1	1.5	B	1.5	20-1	FIELD OUTLET	4	
5	FILED OUTLET	20-1	3	C	1.5	20-1	FIELD OUTLET	6	
7	SPARE	20-1		A		20-1	SPARE	8	
9	SPARE	20-1		B		20-1	SPARE	10	
11	SPARE	20-1		C		20-1	SPARE	12	
13	SPARE	20-1		A		20-1	SPARE	14	
15	SPARE	20-1		B		20-1	SPARE	16	
17	SPARE	20-1		C		20-1	SPARE	18	
NOTES:									
A: PANEL SHALL BE EQUAL TO SQUARE D MODEL NQ, WITH COPPER BUSS AND HINGED DOOR.									
B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.									
C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.									

EXISTING PANEL "MD5-1"SCHEDULE									
PANEL SPECIFICATIONS					TOTAL CONNECTED LOAD				
VOLTAGE: 120/208V 3-PH			NEMA RATING: 3R		PHASE "A" LOAD:		45.5 AMPS		
AMPACITY: 200A MCB			PANEL MOUNTING: SURFACE		PHASE "B" LOAD:		45.5 AMPS		
AIC-RATING: 22kA					PHASE "C" LOAD:		45.5 AMPS		
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	
1	FIELD OUTLET	20-1	1.5	A	41	100-3	EXISTING SCOREBOARD	2	
3	FIELD OUTLET	20-1	1.5	B	41	-	-	4	
5	FIELD OUTLET	20-1	1.5	C	41	-	-	6	
7	FIELD OUTLET	20-1	1.5	A		20-1	SPARE	8	
9	FIELD OUTLET	20-1	1.5	B		20-1	SPARE	10	
11	FIELD OUTLET	20-1	1.5	C		20-1	SPARE	12	
13	FIELD OUTLET	20-1	1.5	A		20-1	SPARE	14	
15	FIELD OUTLET	20-1	1.5	B		20-1	SPARE	16	
17	FIELD OUTLET	20-1	1.5	C		20-1	SPARE	18	
19	SPARE	20-1		A		20-1	SPARE	20	
21	SPARE	20-1		B		20-1	SPARE	22	
23	BLANK			C			BLANK	24	
25	BLANK			A			BLANK	26	
27	BLANK			B			BLANK	28	
29	BLANK			C			BLANK	30	
31	BLANK			A			BLANK	32	
33	BLANK			B			BLANK	34	
35	BLANK			C			BLANK	36	
37	BLANK			A			BLANK	38	
39	BLANK			B			BLANK	40	
NOTES:									
A: ALL BREAKERS SHOWN ARE EXISTING									
B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.									
C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.									

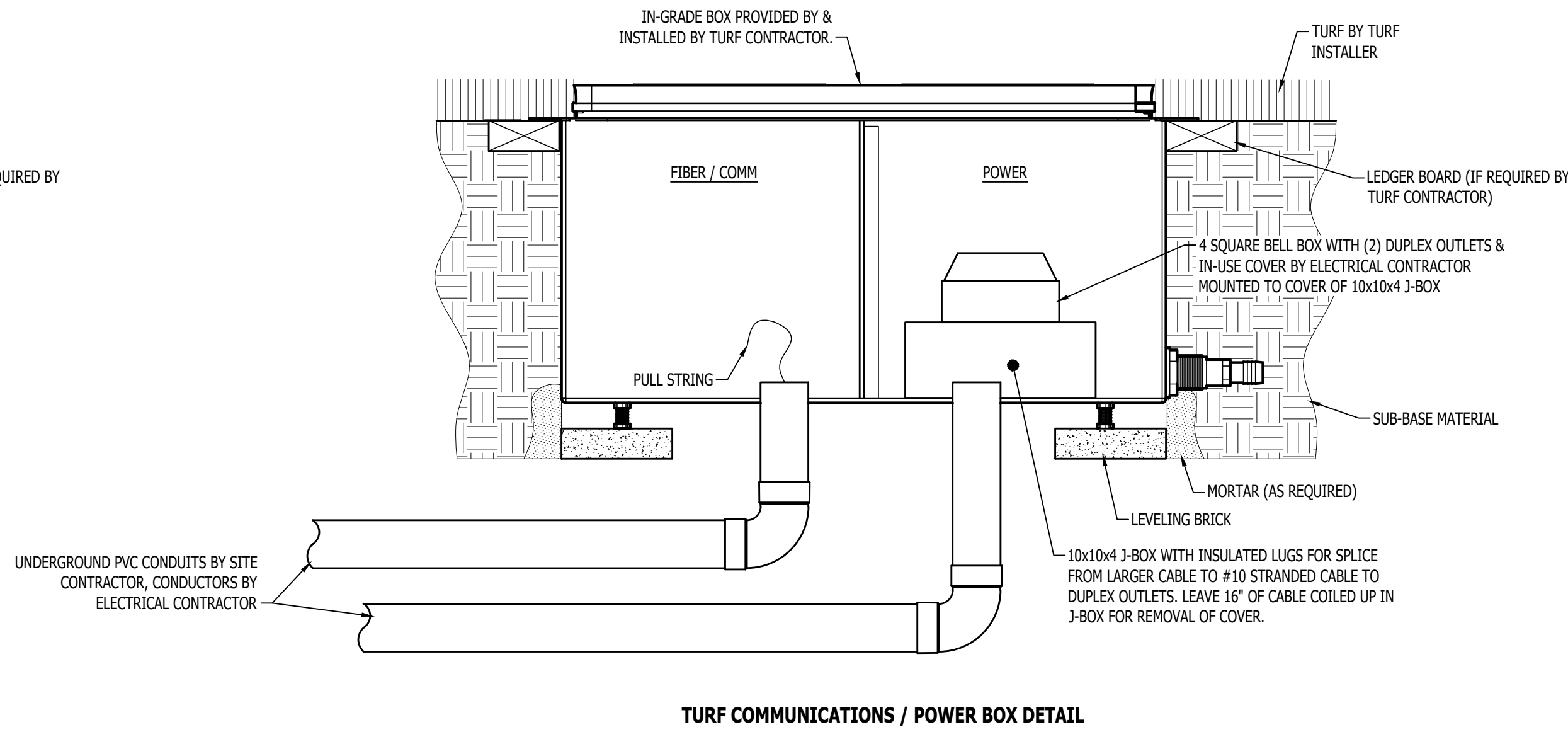
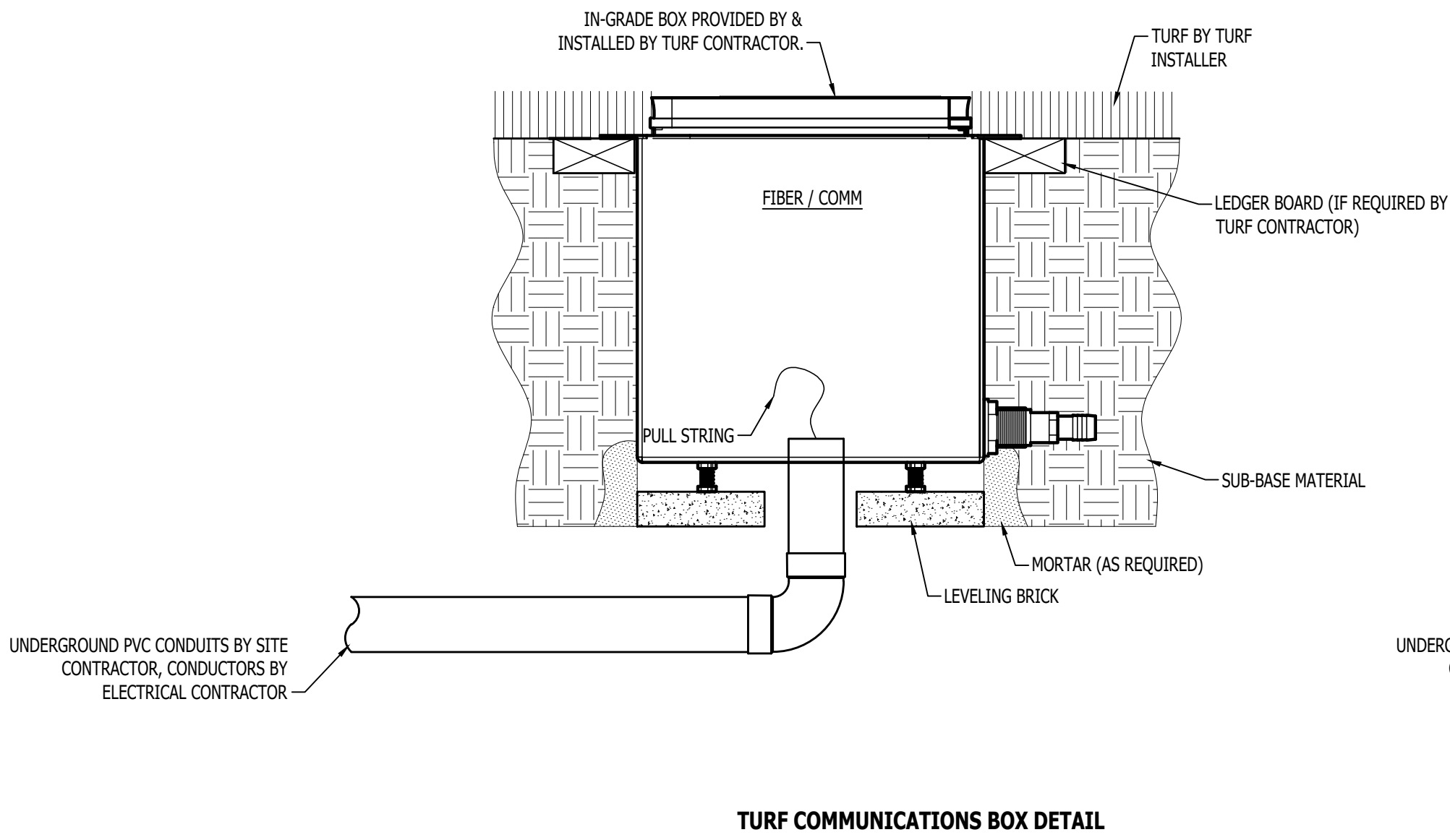
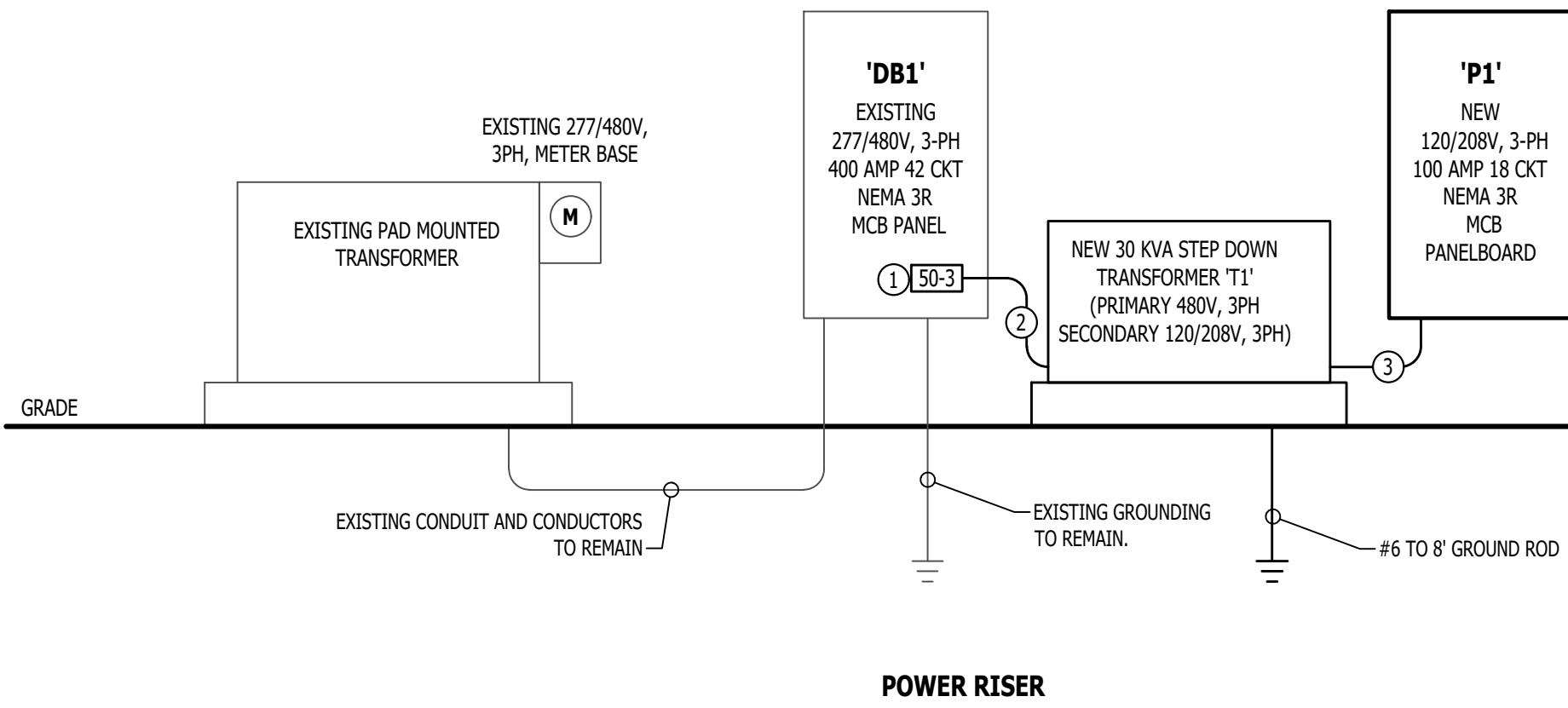
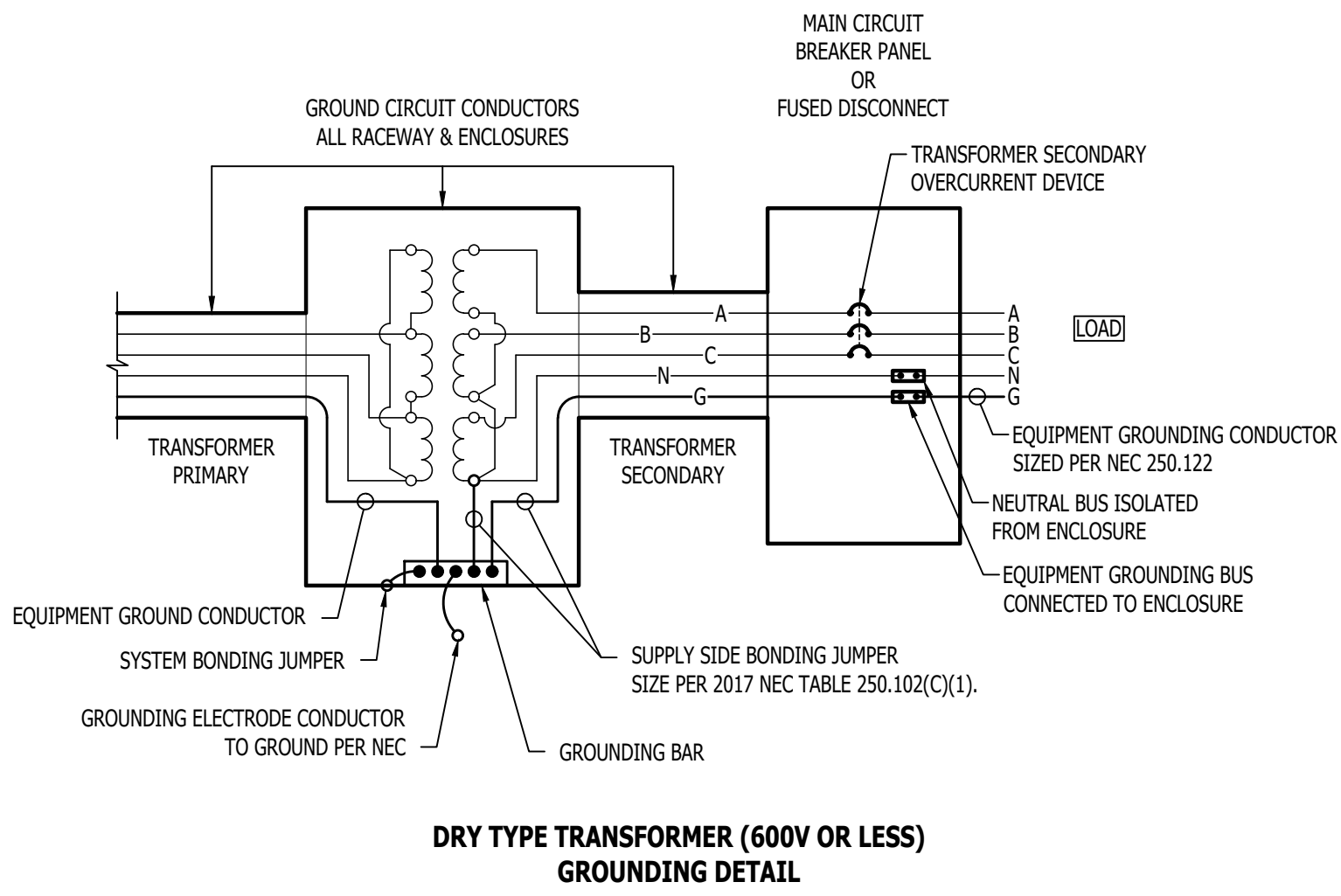


TABLE 250.102(C)(1) - NEC 2020			
Size of Largest Ungrounded Conductor or Equivalent Area for Parallel Conductors (AWG/kcmil)		Size of Bonding Jumper (AWG/kcmil)	
Copper	Aluminum	Copper	Aluminum
2 or smaller	1/0 or smaller	8	6
1 or 1/0	2/0 or 3/0	6	4
2/0 or 3/0	4/0 or 250	4	2
Over 3/0 through 350	Over 250 through 500	2	1/0
Over 350 through 600	Over 500 through 900	1/0	3/0
Over 600 through 1100	Over 900 through 1750	2/0	4/0
Over 1100	Over 1750	See NEC for details	See NEC for details

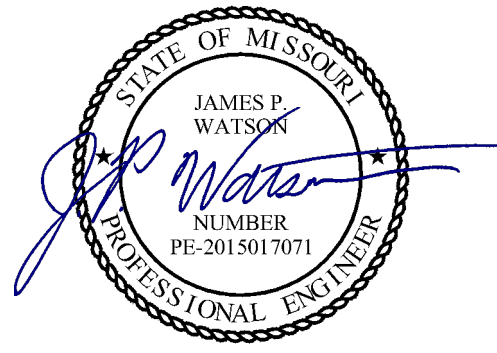


POWER RISER KEY NOTES:

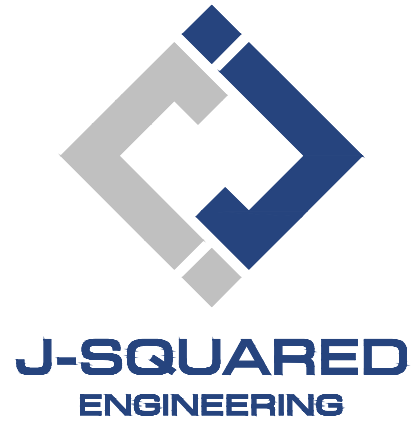
- ① INSTALL NEW 50 AMP 3 POLE BREAKER IN SLOTS 31,33,35.
- ② 1" RIGID ALUMINUM CONDUIT WITH (3) 8 CU & (1) # 10 CU EQ. GRD.
- ③ 1 1/4" RIGID ALUMINUM CONDUIT WITH (4) 3 CU & (1) # 8 BONDING JUMPER

POWER RISER GENERAL NOTES:

1. CONTRACTOR TO PROVIDE ARC FLASH STUDY FOR EXISTING PANEL 'DB1', TRANSFORMER 'T1' & NEW PANEL 'P1'.
2. CONTRACTOR TO PROVIDE 4" THICK HOUSE KEEPING PAD FOR NEW STEP DOWN TRANSFORMER. PAD MUST EXTEND 6" OUTSIDE OF TRANSFORMER ON ALL SIDES.
3. NEW PANEL 'P1' SHALL BE MOUNTED ON BACK SIDE OF EXISTING UNI STRUT RACK THAT PANEL 'DB1' IS CURRENTLY MOUNTED ON. . CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY ADDITIONAL UNI STRUT TO MOUNT PANEL.



James Watson, P.E. September 8, 2025  
PE-2015017071  
MO Certificate of Authority # 2018029680



2400 Bluff Creek Drive, Suite 101  
Columbia, Missouri 65201  
573.234.4492  
www.j-squaredeng.com

J2 PROJECT No: J21565

J2 DESIGN: JAP

ISSUE TITLE DATE

BID SET 09 - 08 - 2025

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:  
**CP251272 Walton Stadium Track and Soccer Surface Upgrade**

1100 Stadium Blvd Columbia, Boone County, MO 65203

AHJ APPROVAL STAMP

SHEET NUMBER

ELECTRICAL DETAILS & SCHEDULES

E501



GENERAL NOTES

ELEVATION DATUM  
SEE ARCHITECTURAL DRAWINGS OR SITE PLAN FOR FINISH FLOOR ELEVATIONS

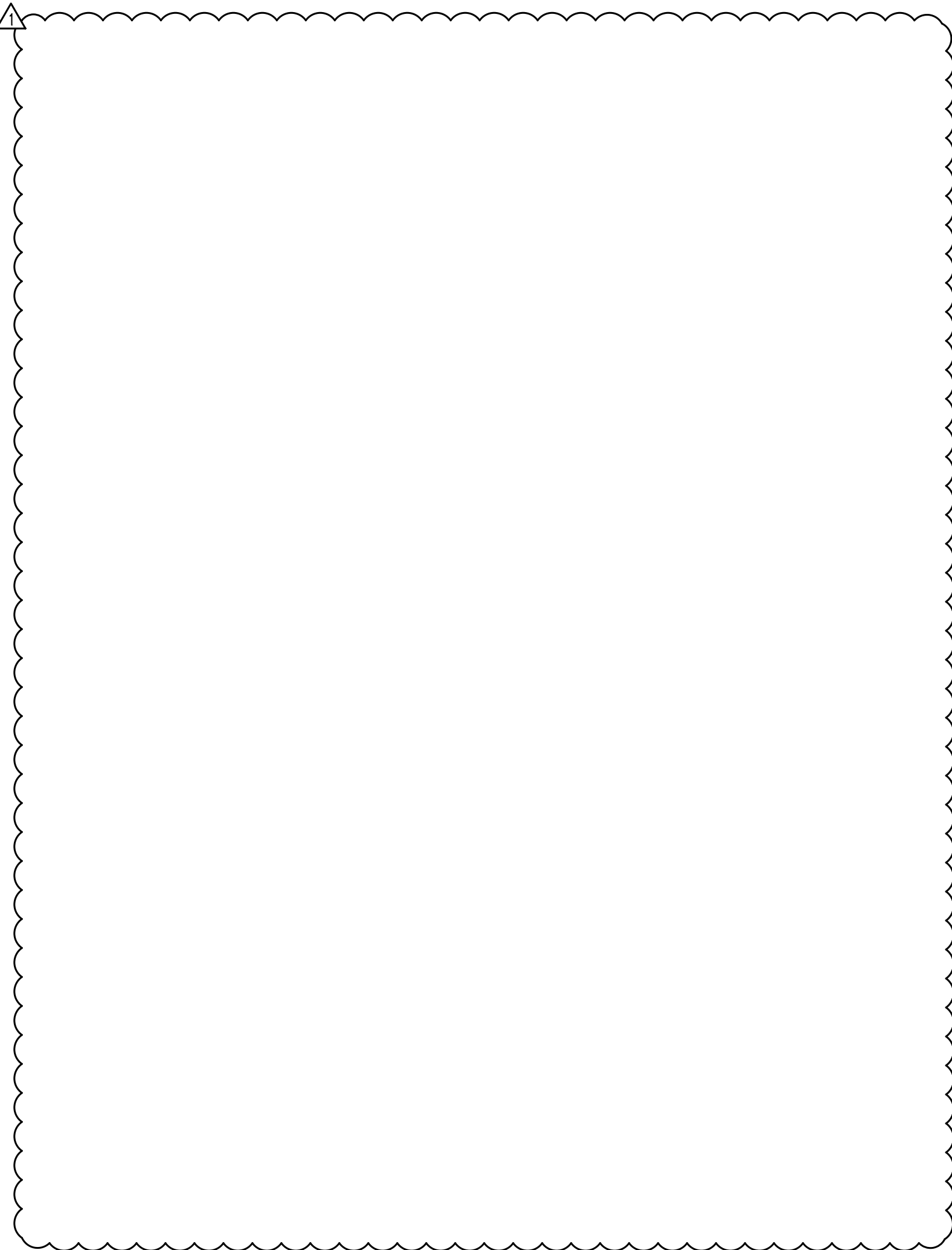
DESIGN SPECIFICATIONS  
2024 INTERNATIONAL BUILDING CODE

EARTHWORK  
EARTHWORK OPERATIONS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL TESTING AGENCY TO ASSURE COMPLIANCE WITH THE RECOMMENDATIONS OF THE SOILS REPORT.

CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 305 SPECIFICATIONS FOR HOT WATER CONCRETE, AND ACI 306 SPECIFICATIONS FOR COLD WEATHER CONCRETE, WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

- CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY MINIMUM COMPRESSIVE STRENGTH:
  - FOUNDATIONS - 3,000 PSI
  - CAST-IN-PLACE WALLS - 3,500 PSI
  - FLOOR SLAB - 4,000 PSI
  - EXTERIOR SLABS, WALLS AND CURBS - 4,000 PSI
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.
- CHLORIDE- BASED ADMIXTURES ARE PROHIBITED IN ALL REINFORCED CONCRETE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60.
- ALL CONTINUOUS REINFORCING STEEL THAT MEETS AT A CORNER SHALL BE TIED TOGETHER WITH A CORNER BAR THAT HAS SUFFICIENT LAP DISTANCE IN EACH DIRECTION.
- CONTINUOUS REINFORCING BARS LAP LENGTH SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.
- CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C- 143) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY. NO WATER MAY BE ADDED TO THE CONCRETE MIX ON SITE UNLESS WATER IS WITHHELD AT THE BATCHING FACILITY. IF WATER IS WITHHELD AT THE BATCHING FACILITY IT SHOULD BE REFLECTED ON THE LOAD TICKET. THE TOTAL AMOUNT OF WATER IN THE MIX SHALL NOT EXCEED WHAT IS NOTED ON THE APPROVED MIXED. THIS SHALL BE NOTED IN THE SPECIAL INSPECTOR'S RECORDS.
- CONCRETE EXPOSED TO WEATHER, VEHICLES, AND/OR DEICING CHEMICALS SHALL BE AIR-ENTRAINED WITH 6% (+/-) 1.5% ENTRAINED AIR BY VOLUME AT POINT OF DISCHARGE. DO NOT ALLOW AIR CONTENT OF TROWELED FINISHED FLOORS TO EXCEED 3%.
- SUBMIT CONCRETE MIX PROPORTIONS PRIOR TO START OF WORK. DO NOT BEGIN CONCRETE PRODUCTION UNTIL MIXES HAVE BEEN REVIEWED AND ARE ACCEPTABLE TO THE ENGINEER.
- READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94.
- CONCRETE WORK EXECUTION
  - CONSTRUCT FORMS TO CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION; AND TO SUPPORT VERTICAL AND LATERAL LOADS.
  - POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE, UNLESS NOTED OTHERWISE ON THE DRAWINGS:
    - CAST AGAINST AND EXPOSED TO EARTH.....3 INCHES
    - EXPOSED TO EARTH OR WEATHER.....2 INCHES
    - NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH.....1 3/8 INCHES
  - PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 15 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM 1/4 OF SLAB DEPTH, AS SOON AFTER SLAB FINISHING WITHOUT DISLOGGING AGGREGATE.
  - STEEL TROWEL FINISH ALL INTERIOR CONCRETE SLABS, BROOM FINISH ALL EXTERIOR CONCRETE SLABS.
  - CURE ALL CONCRETE IN COMPLIANCE WITH ACI 301, USING A LIQUID TYPE MEMBRANE, NON-RESIDUAL, CURING COMPOUND COMPLYING WITH ASTM C309. ASSURE COMPATIBILITY WITH FINISH FLOOR COVERING.



STRUCTURAL STEEL

- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AND CURRENT OSHA STANDARDS.
- WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992. STRUCTURAL TUBES SHALL CONFORM TO ASTM A500 GRADE B. ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36.
- BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM A325-N, SIZE AS PER PLAN.
- ANCHOR BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM F1554 GRADE 36.
- SPALLING OF STRUCTURAL STEEL IS PROHIBITED EXCEPT AS DETAILED.
- ALL STRUCTURAL AND MISCELLANEOUS STEEL ITEMS SHALL RECEIVE ONE COAT OF "IRONCLAD RETARDO RUST INHIBITIVE PAINT 163" (BENJAMIN MOORE) OR APPROVED EQUAL UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS. ALL STEEL SURFACES EMBEDDED IN CONCRETE SHALL NOT BE PAINTED. PREPARATION OF STEEL SURFACES SHALL MEET THE REQUIREMENTS OF THE STEEL STRUCTURES PAINTING COUNCIL (SSPC-SP1) AND THE REMOVAL OF GREASE AND OIL BY SOLVENT CLEANING (SSPC-SP1) AND THE REMOVAL OF MILL SCALE, RUST, WELD FLUX AND SLAG BY HAND TOOL CLEANING (SSPC-SP2). PRIMER SHALL BE APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE BUT NOT LESS THAN ONE GALLON PER 400 SQ.FT. THEREBY DEPOSITING A DRY FILM THICKNESS OF NOT LESS THAN 1.5 MILS. ANY SCARRED AREAS SHALL BE TOUCHED UP WITH THE SAME PAINT AFTER ERECTION.
- ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS IN ACCORDANCE WITH THE CURRENT EDITION OF THE AWS STRUCTURAL WELDING CODE. WELDING ELECTRODES SHALL BE E70XX.

SPECIAL INSPECTIONS

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.

- CONCRETE GROUT DESIGN MIX (PERIODIC)
- PLACING OF CONCRETE AND REINFORCING STEEL (CONTINUOUS OF CONCRETE SAMPLING / PERIODIC OF REINFORCING)
- BOLTS & ANCHORS EMBEDDED IN CONCRETE (PERIODIC)
- STRUCTURAL STEEL FABRICATIONS (UNLESS AISC APPROVED) (PERIODIC)
- POST INSTALLED ANCHORS IN CONCRETE (CONTINUOUS)
- IN-SITU SOILS, EXCAVATIONS, FILLING & COMPACTION (PERIODIC)

THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.

DESIGN DATA

2024 INTERNATIONAL BUILDING CODE / ASCE 7-22

BUILDING OCCUPANCY CATEGORY II

ROOF LOAD DATA  
LIVE LOAD 20  
METAL ROOF & PURLINS 3.0  
PRE-ENGINEERED WOOD TRUSSES @ 2'-0" O.C. 3.0  
MECHANICAL ALLOWANCE 4.0  
SOLAR 50  
TOTAL TO TRUSSES 35 lbs/sq.ft

RAIN LOADING  
15 MINUTE RAIN INTENSITY 6.67 in/hr  
60 MINUTE RAIN INTENSITY 3.18 in/hr

ROOF SNOW LOAD DATA\* (UNBALANCED & DRIFTING SNOW TO BE DETERMINED IN ADDITION TO UNIFORM LOAD, WHERE APPLICABLE)

$p_g$  = 28 lbs/sq.ft  
 $C_e$  = 10  
 $C_r$  = 12  
 $p_f$  = 23.92 lbs/sq.ft

WIND DESIGN DATA  
 $V_{ult}$  = 109 MPH (3-SECOND GUST)  
RISK CATEGORY II  
EXPOSURE C  
INTERNAL PRESSURE COEFFICIENT = +0.18  
DIRECTIONAL PROCEDURE (MMFRS - ASCE 7, CH 27; C&C - ASCE 7, CH 30, PART 4)  
MAXIMUM COMPONENTS & CLADDING WIND +/-32.4 lbs/sq.ft

EARTHQUAKE DESIGN DATA  
RISK CATEGORY II  
 $I_E$  = 10  
 $S_D$  = 0.27  
 $S_1$  = 0.11  
SITE CLASS D  
 $S_{DS}$  = 0.23  
 $S_{D1}$  = 0.16  
SEISMIC DESIGN CATEGORY C

BASIC SEISMIC FORCE-RESISTING SYSTEM -  
LIGHT-FRAME WALLS WITH SHEAR PANELS OF ALL OTHER MATERIALS

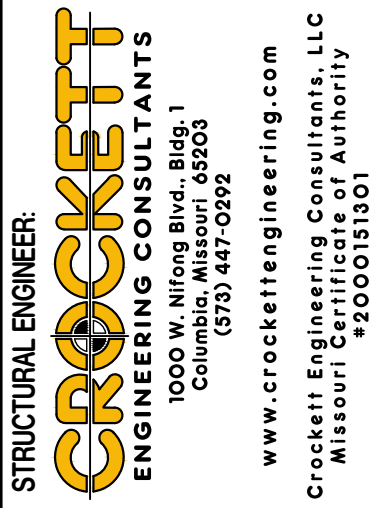
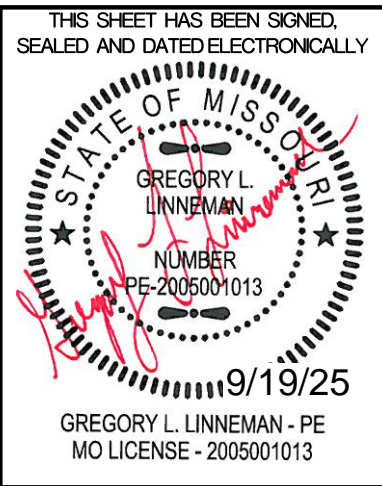
$R$  = 2  
 $\Omega_g$  = 2.5  
 $C_d$  = 2.0

DESIGN BASE SHEAR  $V = 0.15W$   
EQUVALENT LATERAL FORCE PROCEDURE

NET ALLOWABLE SOIL BEARING 1,500 lbs/sq.ft\*\*  
(\*ASSUMED PER IBC TABLE 1806.2, PRESUMPTIVE LOAD-BEARING VALUES)

REVISIONS:

No.	Date
BID SET	09/08/2025
ADDENDUM #1	09/19/2025



CLIENT:  
UNIVERSITY OF MISSOURI  
225 UNIVERSITY HALL  
COLUMBIA, MISSOURI 65211

MU PROJECT #CP252172  
WALTON STADIUM TRACK & SOCCER SURFACE UPGRADE  
COLUMBIA, BOONE COUNTY, MISSOURI

DRAWING INCLUDES:

GENERAL  
STRUCTURAL DATA

DESIGNED: GLL

DRAWN: SES

PROJECT NO.: 230519

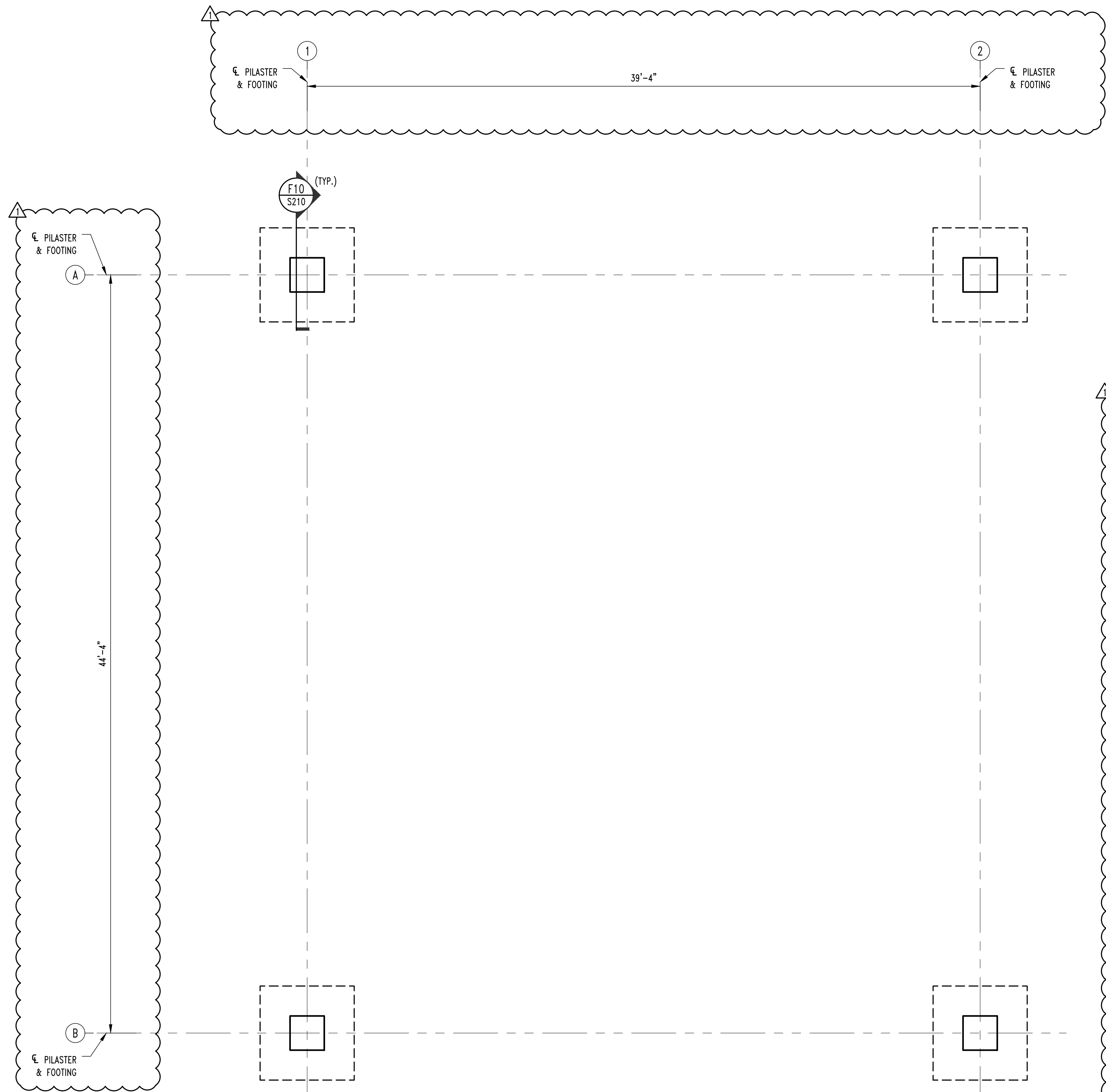
SHEET:  
S100

INDEX OF SHEETS

COVER / GENERAL STRUCTURAL DATA S100  
FOUNDATION PLANS & DETAILS S200

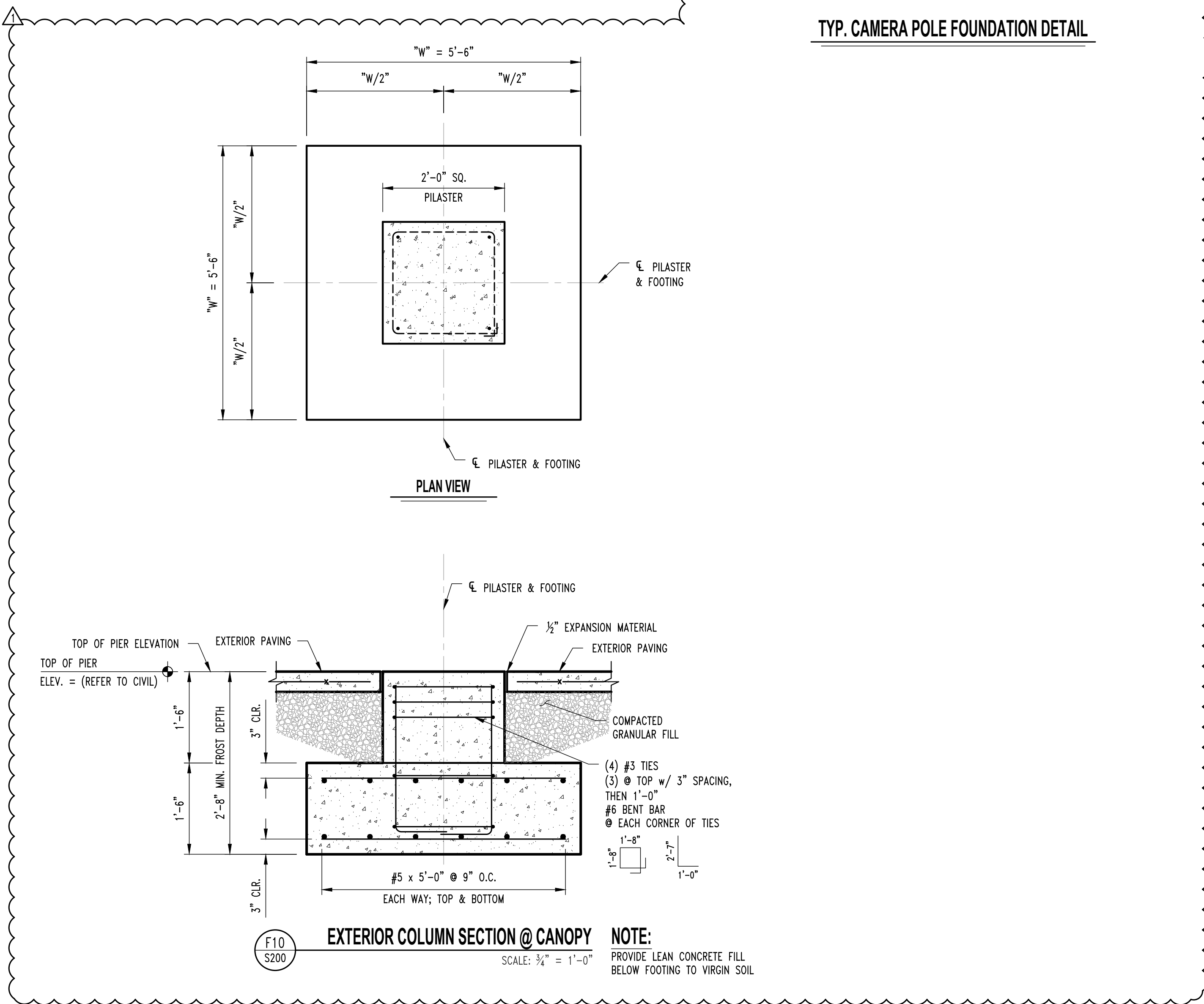


NOTE:  
ALL DIMENSIONS ARE FROM FACE OF FOUNDATION WALL OR FRAMING;  
EDGE OF SLAB OR TRUSS/RAFTER; OR CENTERLINE  
OF COLUMN, BEAM, OR JOIST UNLESS NOTED OTHERWISE.



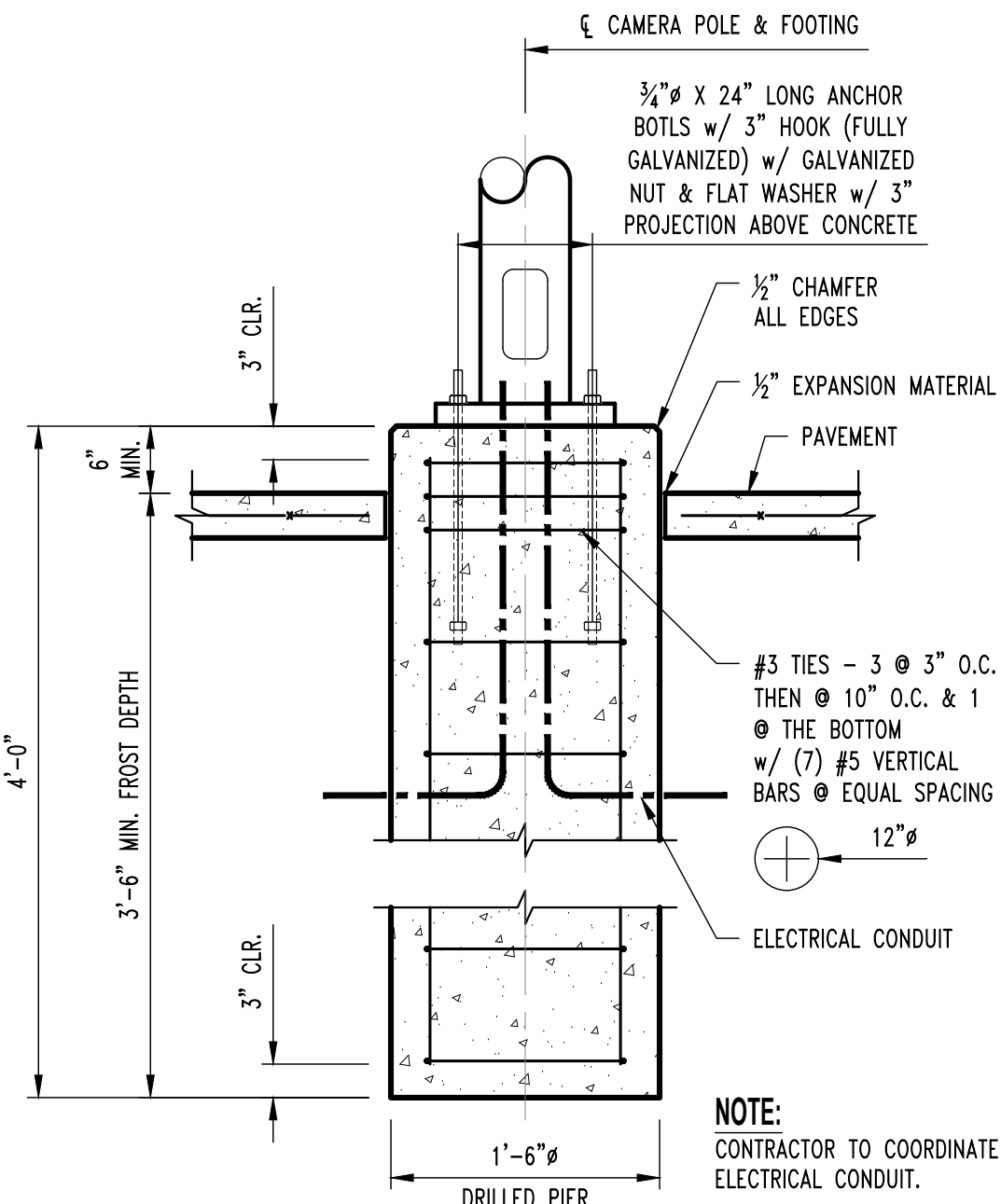
FOUNDATION PLAN (ALTERNATE #3)  
SCALE:  $\frac{1}{4}" = 1'-0"$

NOTE:  
COORDINATE LOCATION OF FOOTINGS w/ CIVIL.



EXTERIOR COLUMN SECTION @ CANOPY  
SCALE:  $\frac{1}{4}" = 1'-0"$

NOTE:  
PROVIDE LEAN CONCRETE FILL  
BELOW FOOTING TO VIRGIN SOIL.



TYP. CAMERA POLE FOUNDATION DETAIL

REVISIONS:	
No.	Date
BID SET	09/08/2025
ADDENDUM #1	09/19/2025
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.	
GREGORY L. LINNEHAN - PE MO LICENSE - 2005001013	
<b>CROCKETT</b> ENGINEERING CONSULTANTS 1000 W. N. King Blvd., Suite 1 Columbia, Missouri 65203 (573) 447-0992 www.crockettingeering.com Missouri Certificate of Authority #2005001013	
CLIENT: <b>UNIVERSITY OF MISSOURI</b> 225 UNIVERSITY HALL COLUMBIA, MISSOURI 65211	
MU PROJECT #CP252172 <b>WALTON STADIUM TRACK &amp; SOCCER SURFACE UPGRADE</b> COLUMBIA, BOONE COUNTY, MISSOURI	
DRAWING INCLUDES: FOUNDATION PLAN & DETAILS	
DESIGNED:	G.L.L.
DRAWN:	SES
PROJECT NO.:	230519
SHEET:	S200





NOTE:

1. SOCCER FIELD STRIPING BY OWNER.
2. CONTRACTOR TO INSTALL TEMPORARY CONSTRUCTION FENCING AROUND WORK AREA AS SHOWN. FENCE SHALL BE CONSTRUCTED OF 9 OR 11-GAUGE CHAIN LINK NOT LESS THAN 6 FEET IN HEIGHT AND NOT MORE THAN 2-INCH MESH WITH POST SPACED NOT MORE THAN 10 FEET APART AND ALL CORNER AND GATE POSTS IMBEDDED IN CONCRETE. ALL OTHER POST SHALL BE SUFFICIENTLY SECURED IN GROUND TO MAINTAIN PROPER AND ADEQUATE SUPPORT OF FENCE. FENCE IN AREA SHALL HAVE AT LEAST 2 ACCESS GATES AND ALL GATES SHALL BE LOCKABLE. CONTRACTOR MAY USE EXISTING FENCE AS CONSTRUCTION FENCING DURING PHASES OF CONSTRUCTION WITH APPROVAL FROM UNIVERSITY.
3. CONTRACTOR TO PROVIDE GREEN JACKET PERMEABLE GROW-IN COVER FOR SOCCER FIELD. BLANKETS SHALL COVER 315'X175' OF SURFACE AREA. CONTRACTOR TO ALSO PROVIDE COVER MASTER ROLLER SYSTEM.

CONSTRUCTION NOTES:

- 12" PERFORATED HPP PIPE AT 1.0% MIN. GRADE.
- INSTALL 24" NYLOPLAST DRAIN BASINS WITH SOLID LID AND STORM SEWER PIPES WITH SOLID LID. REFER TO PLAN FOR ELEVATIONS.
- 4" PERFORATED HDPE DRAIN AT 20' O.C. (TYP.). MIN. GRADE AT 0.5%. REFER TO DETAIL ON SHEET CE 7.2.
- INSTALL 12" INLINE TEE CLEANOUT. REFER TO PLANS FOR DESIGN ELEVATIONS. REFER TO DETAIL ON SHEET CE 7.2.
- EXISTING UNDERGROUND COMMUNICATIONS LINE TO BE PROTECTED DURING ALL PHASES OF CONSTRUCTION.
- INSTALL SILT FENCE. REFER TO PROJECT SWPPP FOR DETAILS.
- INSTALL 10" STORM SEWER AT MIN. 1.0% GRADE AND INSTALL NEW WYE CONNECTION TO EXISTING STORM SEWER.

DEMOLITION NOTE:

CONTRACTOR TO REMOVE ALL EXISTING TURF, IRRIGATION LINES, AND UNDERDRAINS AS REQUIRED FOR NEW TURF FIELD. ALL REMOVALS TO BE HAULED OFF AND DISPOSED LEGALLY.

EXISTING UTILITY NOTE:

EXISTING UTILITIES ARE SHOWN BASED ON PREVIOUS DESIGN PLANS, FIELD LOCATES, MAPPING AND FIELD EVIDENCE. ACTUAL FIELD LOCATIONS AND SIZE MAY VARY FROM WHAT IS REPRESENTED ON THESE PLANS. CONTRACTOR TO CONTACT UNIVERSITY REPRESENTATIVE IF CONFLICTS WITH EXISTING AND PROPOSED UTILITIES ARISE.

GENERAL DEMOLITION NOTES:

1. CONTRACTOR SHALL TAKE CAUTION TO PROTECT EXISTING UTILITIES THAT ARE TO REMAIN.
2. ITEMS OUTSIDE CONSTRUCTION LIMITS OR CALLED OUT TO REMAIN SHALL BE PROTECTED AS REQUIRED. CONTRACTOR SHALL REPAIR/REPLACE DAMAGED ITEMS AT NO EXPENSE TO THE OWNER.
3. CONTRACTOR TO COORDINATE WITH OWNER AND UTILITY PROVIDER PRIOR TO RELOCATION OR DISCONNECTING ANY UTILITIES.
4. CONTRACTOR MAY UTILIZE EXISTING FENCING AS TEMPORARY CONSTRUCTION FENCING DURING PHASES OF CONSTRUCTION. CONTRACTOR TO COORDINATE WITH THE UNIVERSITY TO ENSURE THAT SITE IS SECURE AT ALL TIME.

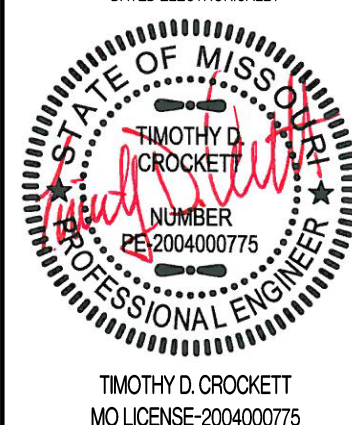
GENERAL EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL PROVIDE FOR CONTROL OF SURFACE EROSION AND SEDIMENT DEPOSITION DURING ALL PHASES OF CONSTRUCTION AND UNTIL THE OWNER ACCEPTS THE WORK AS SUBSTANTIALLY COMPLETE.
2. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ROADWAYS AND SIDEWALKS ADJACENT TO THE CONSTRUCTION SITE FREE OF DIRT AND DEBRIS RESULTING FROM ACTIVITIES RELATED TO THE CONSTRUCTION OF THIS PROJECT.
3. CONTRACTOR SHALL KEEP THE ENTIRE PROJECT SITE FREE OF DEBRIS AND TRASH AT ALL TIMES. CONTRACTOR SHALL EXECUTE WORK USING METHODS THAT MINIMIZE EXCESSIVE NOISE OR DUST EMISSIONS. CONTRACTOR SHALL PROVIDE METHODS, MEANS AND FACILITIES TO PREVENT CONTAMINATION OF SOIL OR WATER FROM DISCHARGE OF REGULATED MATERIALS (I.E., DIESEL FUEL) USED DURING CONSTRUCTION.
4. CONTRACTOR MUST INSTALL AND MAINTAIN THE EROSION CONTROL MEASURES SHOWN ON THIS PLAN. IF THE ENGINEER, OWNER'S REPRESENTATIVE, DETERMINES THAT THE INSTALLATION OF THE MAINTENANCE IS INADEQUATE, THE CONTRACTOR MUST IMMEDIATELY CORRECT AT THEIR EXPENSE. IF IT IS DETERMINED THAT ADDITIONAL EROSION CONTROL MEASURES ARE NEEDED THE CONTRACTOR WILL BE DIRECTED TO INSTALL AND MAINTAIN THOSE MEASURES.
5. THE CONTRACTOR SHALL INSPECT THE LAND DISTURBANCE SITE AT LEAST ONCE EVERY SEVEN (7) DAYS AND WITHIN TWENTY-FOUR (24) HOURS FOLLOWING EACH RAINFALL EVENT OF 1/2" OR MORE WITHIN ANY TWENTY-FOUR (24) HOUR PERIOD. THE CONTRACTOR SHALL ALSO INSPECT AND ASSURE THAT ALL SEDIMENT CONTROL DEVICES ARE IN WORKING CONDITION PRIOR TO ANY FORECASTED RAINFALL.
6. THE CONTRACTOR SHALL REMOVE SEDIMENT FROM THE FLOW AREAS AND MAKE ALL NECESSARY REPAIRS TO MAINTAIN THE INTEGRITY OF THE SEDIMENT CONTROL MEASURES. SEDIMENT SHALL BE REMOVED ONCE IT REACHED 1/2 THE INSTALLED HEIGHT OF MEASURE.
7. SOME OF THE EROSION AND SEDIMENT CONTROL MEASURES, WILL REQUIRE THE CONTRACTOR TO INSTALL, REMOVE, AND REINSTALL THE MEASURES AS CONSTRUCTION PROCEEDS. THE PHASING OF THIS WORK IS DEPENDENT ENTIRELY ON THE CONTRACTOR'S SCHEDULE, AND IS NOT SPECIFIED HEREIN. HOWEVER, THE CONTRACTOR SHALL COORDINATE THESE ACTIONS WITH THE ENGINEER AT THE TIMES ADJUSTMENTS ARE NEEDED.

REVISIONS:

NO.	DATE
BID SET	09/08/2025
ADDENDUM #1	09/19/2025

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY



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MU PROJECT #CP252172  
WALTON STADIUM - TRACK & SOCCER SURFACE UPGRADE  
COLUMBIA, BOONE COUNTY, MISSOURI

DRAWING INCLUDES:

ALTERNATE #1 -  
SOCCER  
PRACTICE FIELD

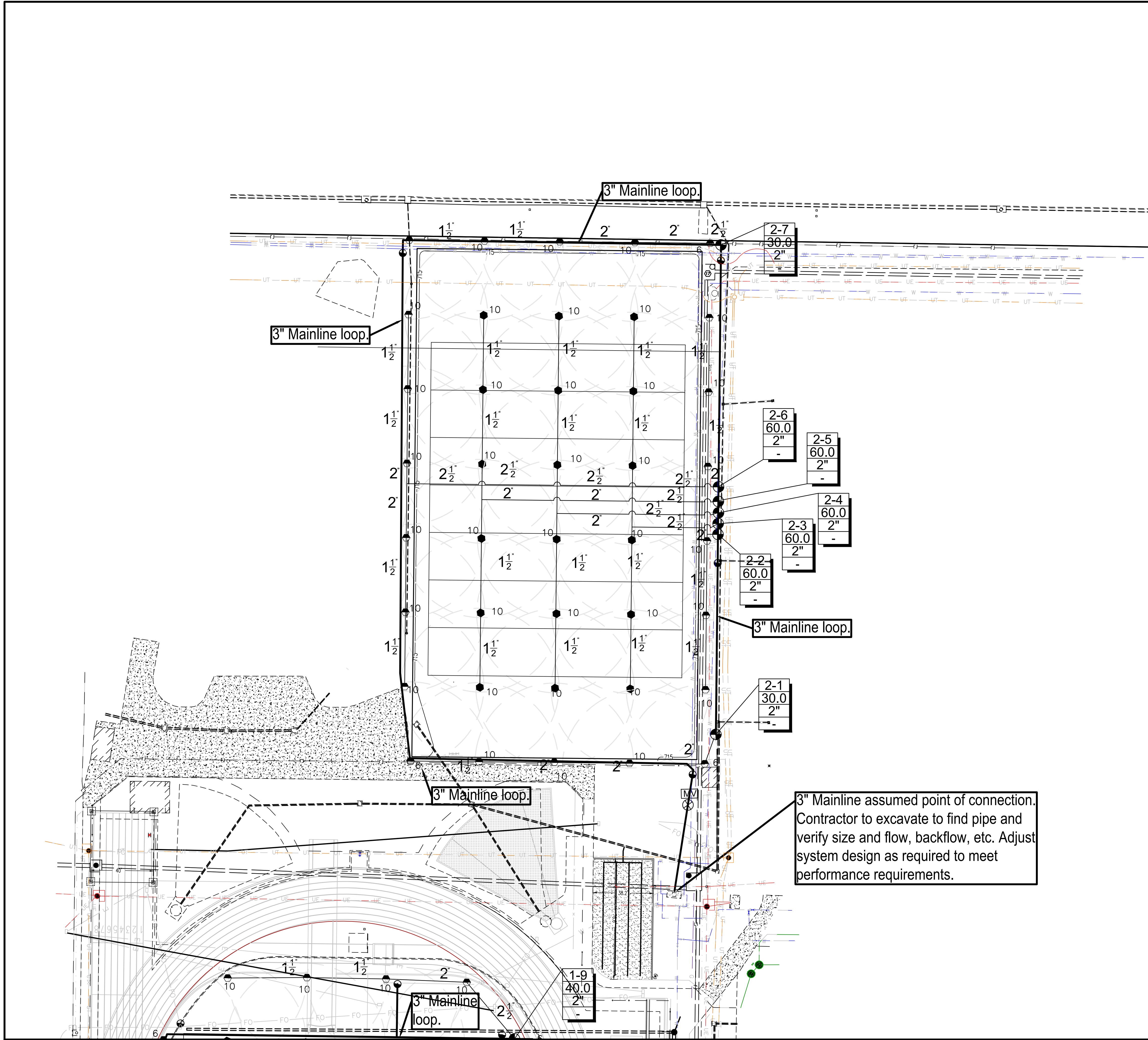
DESIGNED: TDC

DRAWN: JEE

PROJECT NO.: 230519

SHEET:  
CE 8.0





## IRRIGATION GENERAL NOTES

- DESIGN IS BASED ON A MINIMUM FLOW OF 80 GPM AND PRESSURE OF 80 PSI AT THE POINT OF CONNECTION.
- MINIMUM PRESSURE AT FARTHEST HEAD SHALL BE A MINIMUM OF 60 PSI.
- SPRINKLER LOCATIONS ARE TO SCALE. PIPE LOCATIONS ARE DIAGRAMMATIC. CONSULT WITH ARCHITECT IF CONSTRUCTION VARIES SIGNIFICANTLY FROM PLAN.
- PROVIDE 2 QUICK COUPLING KEYS (1" MALE OUTLET) AND SH-2 SWIVEL HOSE ELL FOR EACH KEY.
- CONTRACTOR SHALL UNCOVER AND VERIFY THE POINT OF CONNECTION INCLUDING BUT NOT LIMITED TO SIZE PRESSURE FLOW, BACKFLOW PROTECTION, ETC.

## LEGEND

- [M]** METER – EXISTING
- ⏏** BACKFLOW PREVENTER – EXISTING
- ⊗** MANUAL SHUT-OFF VALVE
- ⊕** PAINBIRD PGA OR PEB REMOTE CONTROL VALVE
- 1" RAINBIRD QUICK COUPLING VALVE.
- RAINBIRD 6504-SS ROTOR WITH STAINLESS STEEL RISERS FULL CIRCLE PART CIRCLE AT ALL PERIMETER HEAD LOCATIONS.  
#10 OR #6 NOZZLES AS NOTED ON PLAN.  
PRESSURE = 60 PSI  
RADIUS = 55 & 47 FT.  
FLOW = #10 = 10.0 GPM & #6 = 6.0 GPM
- (A)** CONTROLLER – EXISTING
- MAINLINE PIPE: PVC CLASS 200 – 3"
- LATERAL PIPE: PVC CLASS 200 (SIZE AS SHOWN)
- 1**  
**50.8**  
**2"**  
**-** INDICATES CONTROLLER STATION NUMBER  
INDICATES LATERAL DISCHARGE IN GPM  
INDICATES REMOTE CONTROL VALVE SIZE

## REVISIONS:

NO.	DATE
SD SET	11/28/2023
DD SET	12/1/2025
CD REVIEW	7/16/2025
90% CD	8/1/2025
Bld Set	8/27/2025

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ELECTRONICALLY



PREPARED BY:  
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MU PROJECT #CP241221  
AUDREY J. WALTON TRACK & SOCCER FIELD STADIUM  
SOCCER FIELD RENOVATIONS  
COLUMBIA, BOONE COUNTY, MISSOURI

## DRAWING INCLUDES:

DESIGNED: xxx  
DRAWN: xxx  
PROJECT N0230519

SHEET:  
**PF 3.2**

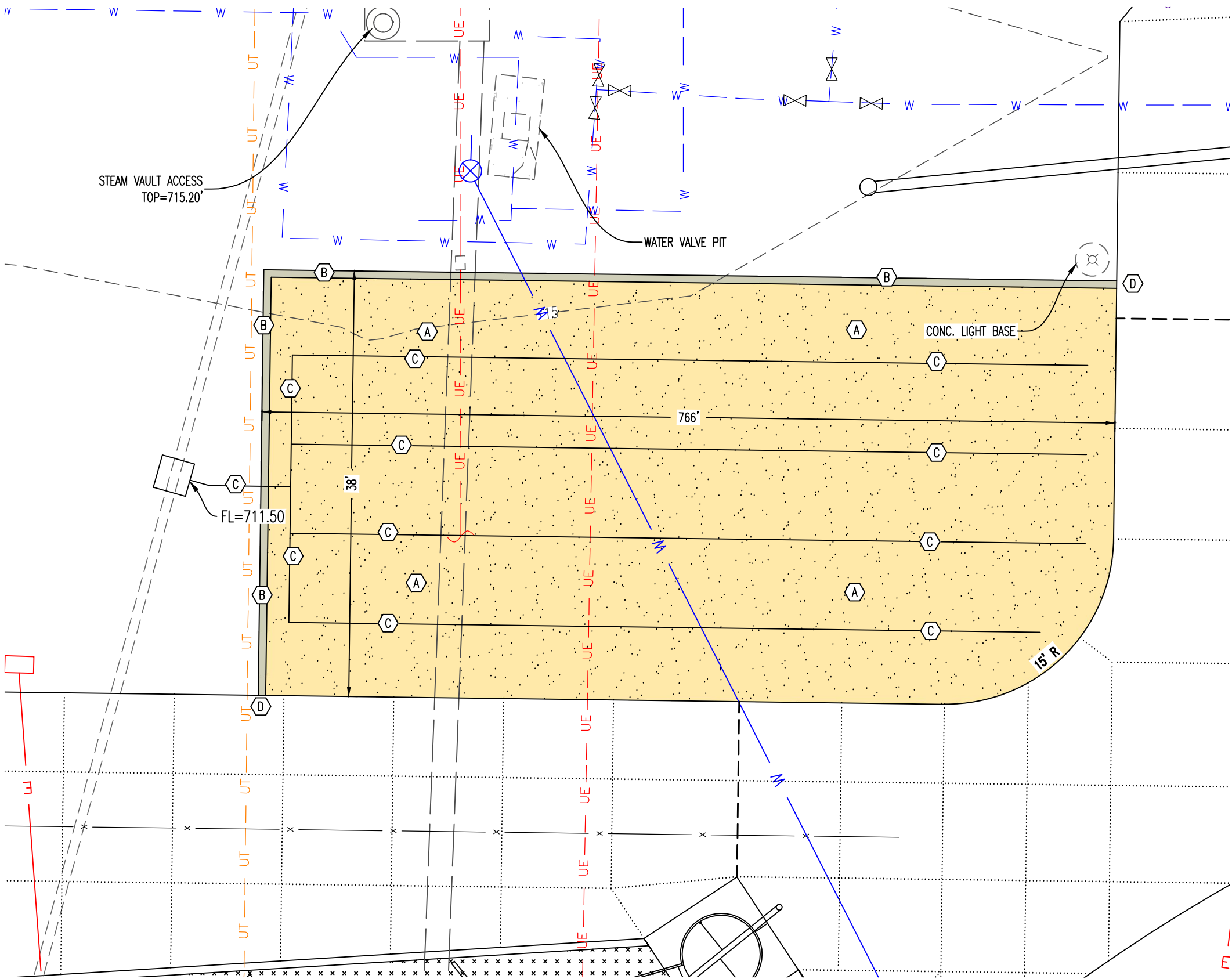
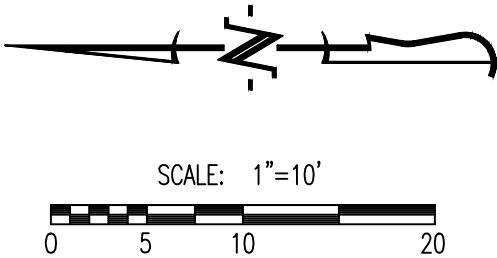
## PLAYING FIELD IRRIGATION PLAN

SCALE: 1"=30'

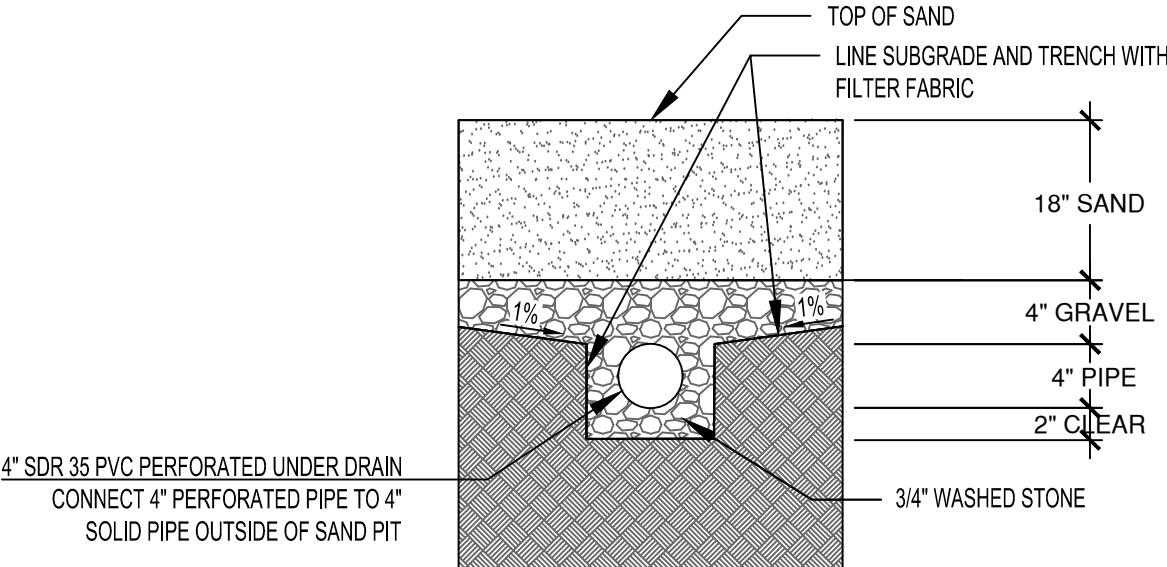


Y:\2023\230519 - CP24\221 - Walton (Audrey J.) Track & Soccer Field Stadium - Soccer Field Renovation\Civil\ACAD Files\Construction Plans\230519\_Site Base.dwg

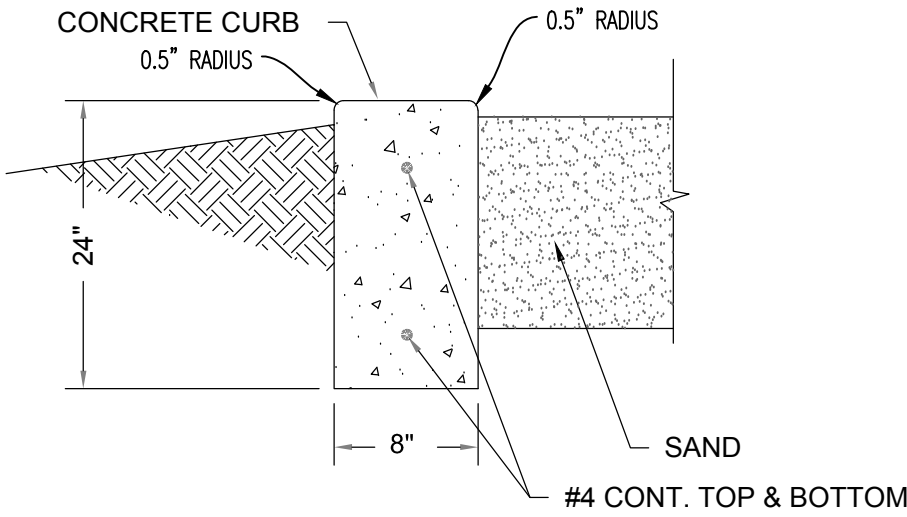
ALTERNATE #2 - SAND PIT



- ALTERNATE #2 - SAND PIT CONSTRUCTION NOTES:
- (A) INSTALL SAND PIT. SAND TO BE 18" THICK AND ALL SAND IN PIT SHALL BE LONG JUMP/TRIPLE JUMP PIT SAND FROM WAUPACO SAND AND SOLUTION.
  - (B) INSTALL CONCRETE CURB. REFER TO DETAIL THIS SHEET.
  - (C) INSTALL 4" PERFORATED UNDER DRAIN. REFER TO DETAIL THIS SHEET. TRANSITION TO SOLID PIPE OUTSIDE OF SAND PIT. CONTRACTOR TO CORE INTO STORM BOX AS REQUIRED.
  - (D) CONTRACTOR TO PIN CURB TO SIDEWALK WITH #4 BARS.



UNDER DRAIN



CURB DETAIL

SCALE: 1 1/2" = 1'-0"

EXISTING UTILITY NOTE:

EXISTING UTILITIES ARE SHOWN BASED ON PREVIOUS DESIGN PLANS, FIELD LOCATES, MAPPING AND FIELD EVIDENCE. ACTUAL FIELD LOCATIONS AND SIZE MAY VARY FROM WHAT IS REPRESENTED ON THESE PLANS. CONTRACTOR TO CONTACT UNIVERSITY REPRESENTATIVE IF CONFLICTS WITH EXISTING AND PROPOSED UTILITIES ARISE.

REVISIONS:

NO.	DATE
BID SET	09/08/2025

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

STATE OF MISSOURI

TIMOTHY D. CROCKETT

PROFESSIONAL ENGINEER

NUMBER  
PE-2004000775

TIMOTHY D. CROCKETT  
MO LICENSE-2004000775

PREPARED BY:

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MU PROJECT #CP252172  
WALTON STADIUM - TRACK & SOCCER SURFACE UPGRADE  
COLUMBIA, BOONE COUNTY, MISSOURI

DRAWING INCLUDES:

ALTERNATE #2 - SAND PIT

DESIGNED: TDC

DRAWN: JEE

PROJECT NO: 230519

SHEET:  
CE 8.1