ELEVATUS
ARCHITECTURE

A D D E N D U M

Project No.: 2501100
Project: New Castle HS Restroom Renovation

Addendum No: 1
Date: 04-21-2025

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 1, to Drawings and Specifications dated 2025-04-03, for the New Castle CSC Track Improvements Project for New Castle Community Schools; as prepared by ELEVATUS Architecture, 111 E. Wayne Street, Suite 555, Fort Wayne, IN 46802

This ADDENDUM shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified and set forth in this ADDENDUM.

Each Bidder shall acknowledge receipt of this ADDENDUM on the Bid Form.

PROJECT MANUAL:

ITEM NO. 1.01 - PROJECT MANUAL, 00 01 10, Table of Contents

A. Re-issue specification section in its entirety to include specifications changed below.

ITEM NO. 1.02 - PROJECT MANUAL, 00 43 00, Supplemental Bid Form

A. Re-issue specification section in its entirety with changes below.
    a. Add Alternate Pricing section for Bids
    b. Revised Sub Contractor Listings.
    c. Revise Dates on Bid Form to indicate 2025.

ITEM NO. 1.03 – Civil Addendum

A. See supporting documents

DRAWINGS

ITEM NO. 1.04 – Civil Addendum

A. See supporting documents

BIDDER QUESTIONS

ITEM NO. 1.05 – Answers to questions asked by bidders

A. Does Item “F” in Section 004310 Bidders Check List apply to this project?
    a. Answer - Yes
B. Will the Bid Form be modified to reflect a Post Tension Track Alternate that was discussed at the Pre-Bid?
    a. Answer - No
C. The Bid Form doesn’t reflect a line item for Alternate #1 or #2 and List of Contractors doesn’t align with this project. Will the Bid Form be revised?

   a. **Answer – Yes, see supporting documentation**

D. Is an AIA 305-2020 Contractors Statement Required per Bid Form with the bid?
   a. **Answer - Yes**

E. Confirm Contractor is responsible for material testing? Verbiage is unclear and different spec sections assign testing to Owner and others to Contractor.
   a. **Answer - Contractor is responsible**

F. Is there any Allowances the Contractor is to include in their bid?
   a. **Answer – No**

G. Is there a Track Surfacing specification product as bases of design? All I see is the profile on C-611 that says Full Pour Polyurethane. i.e. Benyon BSS 100, 300 or etc.?
   a. **Answer – See Civil Addendum**

H. Drawing C-211 Note 14 as Alternate #1 by Motz Group. Is this D Zone Alternate work not in this contract? If in this contract, is there a turf spec we are to utilize?
   a. **Answer – See Civil Addendum**

I. Drawing C-211 Note 15 has HCP ramp to be relocated By Others, please confirm that this work is outside this bid scope?
   a. **Answer – That work is included in project scope**

J. Confirm what Item 1 that is shown on drawing C-411 on the West side of the track is to indicate.
   a. **Answer – See Civil Addendum**

K. Does the scope of this project Erosion Control extend North of the Track per drawing C-512 that appears to cover the practice turf field project that is not in this project?
   a. **Answer – It extends north to extent indicated on C-512**

L. Is recycled Asphalt “RAP” be utilized in the track asphalt pavement? Some track surfacing manufacturers will now allow the use of RAP.
   a. **Answer – No**

Submitted By:

Samuel R. Schaust, AIA

ELEVATUS
ARCHITECTURE

cc: ☐ File: G:\002025\2501100 New Castle CSC Track Improvements\0800 Bidding\0810 Addenda\2025-04-21_New Castle CSC Track Improvements_Addendum #2.docx
☐ Owner:
☐ Contractor:
☐ Consultant:
☐ Consultant:

SECTION 00 01 10 - TABLE OF CONTENTS

COVER SHEET
SEAL PAGE

26 05 29	Hangers And Supports For Electrical Systems	4/3/2025	Issue for Bids
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26 24 16	Panelboards	4/3/2025	Issue for Bids
26 27 25	Boxes And Enclosures	4/3/2025	Issue for Bids
DIVISION 31:	**EARTHWORK**		
31 00 00	Control of Site Work	4/3/2025	Issue for Bids
31 10 00	Site Demolition	4/3/2025	Issue for Bids
31 20 00	Site Earthwork	4/3/2025	Issue for Bids
31 30 00	Soil Erosion and Sediment Control	~~4/3/2025~~ 4/21/2025	~~Issue for Bids~~ Addendum #1
DIVISION 32:	**EXTERIOR IMPROVEMENTS**		
32 12 16	Bituminous Concrete Pavement	~~4/3/2025~~ 4/21/2025	~~Issue for Bids~~ Addendum #1
32 13 13	Portland Cement Concrete Pavement	~~4/3/2025~~ 4/21/2025	~~Issue for Bids~~ Addendum #1
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32 92 00	Lawns and Grasses	4/3/2025	Issue for Bids
DIVISION 33:	**UTILITIES**		
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END OF SECTION

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SECTION 00 43 00 - SUPPLEMENTAL BID PROPOSAL FORM

SUPPLEMENTAL BID PROPOSAL FORM

(To be attached to Indiana State Board of Accounts Form 96 – Rev. 2013)

(BASE BID SINGLE PRIME CONTRACT)

Bidder _____

Address _____

_____Phone # _____

SINGLE PRIME BID

To: New Castle School Corporation

Project: High School Track Improvement
801 Parkview Dr
New Castle, IN 47362

I have received and carefully reviewed the Contract Documents prepared by Elevatus Architecture, 111 East Wayne, Suite 555, Fort Wayne, IN

I have also received Addenda Nos. _____and have included their provisions in my Proposal. I have examined the Documents, Drawings, and the site, and submit the following Proposal, IN DUPLICATE.

In submitting this Proposal, I agree to the following:

1. To hold my bid(s) open for thirty (30) calendar days after receipt of bids.

2. To accept the provisions in the Instructions to Bidders, regarding Bid Security.

3. To enter into and execute a Contract, if awarded on the basis of this Proposal, and if required to furnish Performance Bond and Labor and Material Payment Bonds in accordance with the Instructions to Bidders.

4. To submit Certificates of Insurance for the coverage specified.

5. To accomplish the Work in accordance with the Contract Documents.

6. To complete the Work covered by this Proposal within _____calendar days from the date of written order to proceed with the Work to date at which work under this Proposal is completed. The calendar days stated shall not exceed the completion dates as specified in Section 01 11 00.

7. It is recognized that Work for this Project is to be performed under no-lien contracts between the Owner and the General Prime Contractor.

BASE BID: I agree to execute the work under the following Base Bid indicated for the lump sum amount given therein.

BASE BID BASE BID AMOUNT

$_____

_____
(State amount in words)

ALTERNATE PRICES - Refer to specification Section 01 23 00

Alternate Prices for complete descriptions of the Unit Prices listed below.

ALTERNATE NO. 1: D-Zone associated work

Add $_____

ALTERNATE NO. 1: Asphalt located around Bleachers.

Add $_____

LIST OF SUBCONTRACTORS

Concrete/Asphalt Contractor _____

Track Coating Contractor _____

~~Masonry subcontractor~~ _____

~~General trades subcontractor~~ _____
~~(if different than general prime contractor)~~

~~Plumbing subcontractor~~ _____

~~Mechanical subcontractor~~ _____

Electrical subcontractor _____

IRAN CERTIFICATION

The undersigned contractor hereby certifies in accordance with I.C. 5-22-16.5-1 et seq. to Pleasant Township, Steuben County, that the undersigned is not engaged in investment activities in Iran as defined in the above cited statute.

_____
Signature

_____
Printed Name

I have also attached the following required submissions:

- Indiana Form 96 (Revised 2013) including Non-Collusive Bidding Certification
- 5% Bid Security
- AIA A305-2020, Contractor's Qualification Statement
- Contractor's Drug Testing Written Plan in accordance with Indiana Code IC 36-1-12-4 or IC 5-16-13-11(6) and IC 4-13-18-5

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* * * * * * * * * * *

Use this form if Bidder is Sole Proprietor:

IN TESTIMONY WHEREOF, the Bidder has hereunto set his hand this_____day of

_____, ~~2023~~2025.

Bidder _____

Address_____

City/State_____

Phone _____

Signature_____

* * * * * * * * * * *

Use this form if Bidder is a Partnership:

IN TESTIMONY WHEREOF, the Bidder (a firm) has hereunto set their hands this_____day of

_____, ~~2023~~2025.

_____
(Firm Name)

Address_____

City/State_____

Phone _____

Signature_____
(Individual Names)

Signature_____
(Individual Names)
(add to as may be applicable)

* * * * * * * * * * *

* * * * * * * * * * *

Use this form if Bidder is a Corporation or LLC:

IN TESTIMONY WHEREOF, the Bidder (a Corporation) has caused this proposal to be signed by its President and

Secretary, and affixed its corporate seal this _____ day of _____ ~~2023~~2025.

_____
(Name of Corporation)

Address_____

City/State_____

Phone _____

_____
(President)

(C O R P. S E A L)

_____
(typed)

_____
(Secretary)

_____
(typed)

(THIS BID SHALL BE FURNISHED IN DUPLICATE, WITH BOTH COPIES ENCLOSED IN THE SEALED BID ENVELOPE WITH ISBA FORM 96)

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Addendum #1
April 21, 2025
New Castle CSC Track Improvements

Item: 1.1
Description: Clarification – Post Tension Track

A. The project will not include a Post Tension Concrete Track Alternate.

Item: 1.2
Description: Clarification – Material Testing
312000 – Site Earthwork
321216 - Bituminous Concrete Pavement
321313 - Portland Cement Concrete Pavement

A. Contractor is responsible for providing all material testing. See revised specifications.

Item: 1.3
Description: Added – Turf Alternate
C-211 – Site Layout Plan
C-411 – Site Utility Plan
C-611 – Site Layout Details

A. The turf and associated scope is to be included in the contract and bid as an alternate. See revised sheets.

Item: 1.4
Description: Clarification
C-111 – Site Demolition Plan
C-411 – Site Utility Plan

A. Utility note clarification. See revised sheets.

Item: 1.5
Description: Clarification – Construction Coordination

A. Construction entrance and stockpile locations are shown on plans. Contractor to coordinate final locations with owner at the preconstruction meeting.

4175 New Vision Dr. ● Fort Wayne, IN 46845 ● 260-490-1025 ● www.eri.consulting

ENGINEERING
RESOURCES, INC.

Item: 1.6
Description: Clarification – Asphalt Material

A. Recycled asphalt is not to be utilized for use in the track asphalt pavement.

Item: 1.7
Description: Added – Athletic Track Surface & Striping
C-211 – Site Layout Plan

A. Track surfacing and striping is to be included in the contract and bid. See revised sheet.

Item: 1.8
Description: Added – Athletic Surfaces Specification
321800 - Athletic Surfaces

A. See attached for new specifications relating to athletic surfaces.

Item: 1.9
Description: Clarification – Fence Gates
C-211 – Site Layout Plan

A. Revised layout note clarifying relocated gate locations. See revised sheet.

Item: 1.10
Description: Clarification – Metal Ramp
C-211 – Site Layout Plan

A. Revised layout note clarifying to see architectural plans for metal ramp scope. See revised sheet.

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SECTION 31 20 00 - SITE EARTHWORK

PART 1 - GENERAL

1.1 WORK INCLUDES:

A. Site earthwork as shown on the Site Plans within the project limits.

B. Excavation and Backfill for site utilities.

1.2 REFERENCE STANDARDS AND SPECIFICATIONS:

A. Terms and conditions of construction as required by the Contractor's permit with the controlling agency. When conditions of the permit conflict with proposed work, the contractor shall notify the Engineer for correction prior to installation. Any non-compliant work performed by the Contractor shall be at the Contractor's expense.

B. Site Demolition specification for removals and topsoil stripping.

C. Control of Site Work Specification.

1.3 UNKNOWN CONDITIONS (change to contract):

A. Rock: Material 1 cy and larger that exceeds a standard penetration resistance of 100 blows/2 inches. Notify the Owner's Agent if any rock is encountered. Removal of material will be considered a change to the contract. Work shall not commence until instructed by the Owner's Agent.

B. Unsuitable subgrade: Notify the Owner's Agent if any unsuitable subgrade is encountered. Stabilization of subgrade material above and beyond as stated in part two of this section, will be considered a change to the contract beyond the work covered in this specification. Work shall not commence until instructed by the Owner's Agent.

1.4 TESTING:

A. Contractor shall engage a qualified independent geotechnical engineering testing agency to perform field quality-control testing. See Part II of this specification for testing requirements.

1.5 FINISH GRADING:

A. Final grades shall direct storm water to all collection points and meet the intent of the storm water management plan as identified in the site drawings. Establish grades to within required tolerances. Fill any settled areas as required to meet the specifications within the one year warranty period. Final grade is defined as the elevation of the final surface, including any mulching material in landscaping beds, applied rubberized surfaces, etc.

1.6 EARTHWORK BALANCE:

A. No guarantee is made that the site grading plan provides a balanced site condition. The contractor shall import or export soil materials from site as required to meet the conditions of the construction documents.

1.7 PROTECTION OF EXPOSED GRADE:

A. Protect exposed layers against freezing temperatures, frost, rain, accumulated water, and construction activities, including any open excavations and utility trenches. Reconstruction of damaged layers will be corrected by the contractor according to this specification at no additional cost to the Owner, including areas previously approved by the Geotechnical Engineer.

PART 2 - INSTALLATION

2.1 PREPARATION OF SUBGRADE:

A. Soil surface immediately below proposed fills (after stripping topsoil) and bottom of proposed excavations (in cut areas).

B. See the site demolition specification for site clearing requirements.

C. Notify Geotechnical Engineer when excavations have reached the required subgrade elevations for approval prior to continuing with backfill and fill operations. The contractor shall proof roll the existing subgrade that is not wet or saturated with heavy pneumatic-tired equipment of not less than 10 ton rated weight and identify any soft pockets or areas of excessive yielding. The contractor shall re-work the existing subgrade material to the depth and moisture content as recommended in the soil report. The subgrade will not be approved until both minimum compaction, and optimum moisture content is achieved.

2.2 SUBGRADE STABILIZATION (change to contract):

A. Any stabilization measures must be authorized by the owner and approved by the Geotechnical Engineer prior to operations or all work shall be at the contractor’s risk. No payment will be made for unauthorized work.

B. If the Geotechnical Engineer determines that unsatisfactory soils are present, continue the excavation and replace with compacted backfill or fill material as directed and after the Owner approves. Additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work. Any stabilization measures must be authorized by the owner and approved by the geotechnical engineer prior to operations or all work shall be at the contractor’s risk. No payment will be made for unauthorized work.

2.3 BACKFILL AND FILL:

A. Soil materials used to fill an excavation or raise existing grades.

B. Subgrade Backfill and Fill: Do not place backfill or fill material on surfaces that are muddy, frozen, wet, or contain frost or ice. Place backfill and fill materials in layers not more than 8 inches in loose depth for material compacted by heavy compaction equipment, and not more than 4 inches in loose depth for material compacted by hand-operated tampers.

C. Foundation and Slab Backfill and Fill: Do not place backfill or fill material on surfaces that are muddy, frozen, wet, or contain frost or ice. Place backfill and fill materials in layers not more than 6 inches in loose depth for material compacted by heavy compaction equipment, and not more than 4 inches in loose depth for material compacted by hand-operated tampers.

D. The Geotechnical Engineer shall test each lift for compliance with the specifications prior to continuing with backfill and fill operations. Each fill and backfill layer will not be approved until both minimum compaction, and optimum moisture content is achieved.

E. Moisture content: Each fill and backfill layer shall be within 2% of the materials optimum moisture content.

F. Standard Fill Material: ASTM D 2487 soil classification groups GW, GP, GM, SW, SP, and SM, CL, or a combination of these group symbols; free of rock or gravel larger than 3 inches in any dimension, debris, waste, frozen materials, vegetation, and trash.

G. Unsuitable Soils: ASTM D 2487 soil classification groups GC, SC, ML, MH, CH, OL, OH, and PT, or a combination of these group symbols, and standard fill material not maintained within 2 percent of optimum moisture content at time of compaction.

H. Engineered Fill: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve.

I. Topsoil: Natural or cultivated surface-soil layer containing organic matter and sand, silt, and clay particles; friable, pervious, and black or a darker shade of brown, gray, or red than underlying subsoil; reasonably free of subsoil, clay lumps, gravel, and other objects more than 2 inches in diameter; and free of weeds, roots, and other deleterious materials.

J. Amended Topsoil: Topsoil shall be fertile soil capable of sustaining vigorous plant growth, taken from a well drained site. Contractor to amend topsoil onsite to meet the following requirement. It should be free of subsoil, clay or impurities such as plants, weeds, and roots. It should have a minimum ph value of 5.5 and maximum of 7.4.

2.4 PAVEMENTS AND SITE SLABS ON GRADE:

A. Subgrade: scarify and compact the top 12 inches of existing subgrade, and each following lift of fill or base material to 95 percent of maximum dry unit weight according to ASTM D 1557 (modified proctor). Establish grades to within 1” of proposed.

B. Fill Material: Place and compact each lift with standard fill material to the bottom of the aggregate base layer.

C. Aggregate Base: See site drawings for material.

D. Frequency of testing: Coordinate with the Geotechnical Engineer to perform a minimum of one test per 500 sf.

2.5 WALKWAYS:

A. Subgrade: scarify and compact the top 12 inches of existing subgrade, and each following lift of fill or base material to 95 percent of maximum dry unit weight according to ASTM D 1557 (modified proctor). Establish grades to within 1” of proposed.

B. Fill Material: Place and compact each lift with standard fill material to the bottom of the aggregate base layer.

C. Aggregate Base: See site drawings for material.

D. Frequency of testing: Coordinate with the Geotechnical Engineer to perform a minimum of one test per 50 lf.

2.6 LAWN AND LANDSCAPING BEDS:

A. Subgrade: scarify and compact the top 12 inches of existing subgrade, and each following lift of fill or base material to 90 percent of maximum dry unit weight according to ASTM D 1557 (modified proctor). Establish grades to within 1” of proposed.

B. Fill Material: Place and compact each lift with standard fill material to the bottom of the topsoil layer. Unsuitable soil materials may be used as fill when approved by the Geotechnical Engineer and the Landscape Architect.

C. Frequency of testing: Coordinate with the Geotechnical Engineer to perform a minimum of one test per 1000 sf.

D. Final Grade: Establish grades to within 1” of proposed.

E. Contractor shall repair any settled areas to meet project specifications within the warranty period.

F. 6” of topsoil shall be used in lawn areas.

G. Amended topsoil shall be used in landscaping areas.

2.7 UTILITY TRENCH EXCAVATION AND BACKFILL:

A. Notify Geotechnical Engineer when excavations have reached the required bottom of trench elevation prior to continuing with backfill and fill operations. If the Geotechnical Engineer determines that unsatisfactory soils are present, the Engineer will instruct the contractor on corrective measures. Additional work required to correct and stabilize the existing subgrade will be paid for according to Contract provisions for changes in the Work.

B. Fill material required to re-establish the trench bottom due to over-excavation of the utility trench will be bedding material, and placed by the contractor at no additional cost to the Owner.

C. Place and shape the pipe bedding material as shown on the site drawings to provide continuous support for the conduit. Place and compact the initial backfill to a height of 12 inches over the utility pipe. Carefully compact backfill material under the pipe haunches and bring up evenly on both sides.

D. Backfill material: See site drawings.

E. Frequency of testing: Coordinate with the Geotechnical Engineer to perform a minimum of one test per 100 lf per lift.

2.8 DRAINAGE STRUCTURE EXCAVATION AND BACKFILL:

A. Notify Geotechnical Engineer when excavations have reached the required the bottom of trench elevation prior to continuing with backfill and fill operations. If the Geotechnical Engineer determines that unsatisfactory soils are present, the Engineer will instruct the contractor on corrective measures. Additional work required to correct and stabilized the existing subgrade will be paid for according to Contract provisions for changes in the Work.

B. Fill material required to re-establish the bottom of excavation due to over-excavation of the utility trench will be bedding material, and placed by the contractor at no additional cost to the Owner.

C. Place and compact a 6” minimum depth foundation of Class I or Class II special fill material according to ASTM D2321. After placement of structure and connection of sewer piping, continue special fill to a minimum of 12” above sewer piping in lawn areas, and to subgrade elevation in paved areas or within the influence of building foundations or site slabs on grade.

D. Frequency of testing: Coordinate with the Geotechnical Engineer to perform a minimum of one test per structure.

END OF SECTION 31 20 00

SECTION 32 12 16 – BITUMINOUS CONCRETE PAVEMENT

PART 1 - GENERAL

1.1 WORK INCLUDES:

A. Asphalt paving for parking lots.

B. Asphalt paving for driveways.

C. Asphalt paving for roadways.

D. Asphalt paving for hard surface play fields.

1.2 REFERENCE STANDARDS AND SPECIFICATIONS:

A. Site Earthwork specification for subgrade and aggregate base requirements.

B. Terms and conditions of construction as required by the Contractor's permit with the controlling agency. When conditions of the permit conflict with proposed work, the contractor shall notify the Engineer for correction prior to installation. Any non-compliant work performed by the Contractor shall be at the Contractor's expense.

C. State Department of Transportation for pavement design mix specification as defined on the site drawings.

D. INDOT Standard Specifications Section 402, latest edition.

E. Asphalt Paving Publication AI MS-22, "Construction of Hot Mix Asphalt Pavements."

F. Control of Site Work Specification.

1.3 DELIVERABLES*:*

A. Contractor must provide proof of certification by either the State Department of Transportation or controlling municipality for paving work.

B. Record Drawings: Include size, material, depth of cover, location, and elevation of all improvements within the contract documents. Include details of underground structures and connections.

C. Material certificates for the pavement design mix.

D. Tack coat material.

E. Passing test reports.

1.4 CONTROL OF WORK:

A. Schedule tests and inspections with the Project Geotechnical Engineer and as required under the conditions of the permit. The finished paving will not be accepted or considered complete until all improvements pass the testing requirements of these specifications and the permitting authority.

B. Comply with INDOT Standard Specifications latest edition, Section 402 for paving work.

C. Comply with Asphalt Institute (AI) MS-22 “Construction of Hot Mix Asphalt Pavements”.

PART 2 - PRODUCTS

2.1 AGGREGATE BASE:

A. See the site drawings for material requirements. See the Earthwork Specification for subgrade compaction and installation requirements.

2.2 TACK COAT:

A. Emulsified asphalt according to ASTM D 977.

B. Minimum surface temperature of 60 deg F

C. Apply uniformly to all exposed existing asphalt surfaces at point of contact with new paving at a rate of 0.10 gallons per square yard.

2.3 ASPHALT BASE COURSE:

A. See the site drawings for the Department of Transportation design mix.

B. Do not place asphalt until the surface temperature is a minimum of 40 deg F and rising at time of placement.

C. Do not apply asphalt materials if the aggregate base shows signs of yielding or the subgrade is wet or excessively damp.

D. Spread mix at minimum temperature of 250 deg F at a thickness according to the recommendations of the State Department of Transportation.

E. Complete breakdown rolling and examine surface immediately after roller passes. Correct as required to comply with this section.

F. Compaction shall conform to INDOT Standard Specifications latest edition, Section 402.15. Provide the minimum number of rollers and coverage. Begin compaction immediately after the mixture has been spread and finished. Rollers shall not cause undue displacement, cracking, or shoving.

G. In areas inaccessible to rollers, compact hot-mix paving with hot, tampers or vibratory--plate compactors in accordance with INDOT Standard Specifications latest edition, Section 408.03(d).

H. Compact each course to within a tolerance of 1/2 inch in lifts not exceeding 2” total thickness. Surface smoothness as determined by using a 10-foot straightedge applied transversely or longitudinally to paved areas shall be within a tolerance of 1/4 inch.

I. Complete finish rolling while the pavement is still warm.

J. After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened.

K. Frequency of testing: Coordinate with the Project Geotechnical Engineer to collect one sample of hot-mix asphalt material per lift to determine design mix properties.

2.4 ASPHALT SURFACE COURSE:

A. See the site drawings for the Department of Transportation design mix.

B. Do not place asphalt until tack coat has fully cured, and the surface temperature is a minimum of 60 deg F and rising at time of placement.

C. Spread mix at minimum temperature of 250 deg F at a thickness according to the recommendations of the State Department of Transportation.

D. Complete breakdown rolling and examine surface immediately after roller passes. Correct as required to comply with this section.

E. Compaction shall conform to INDOT Standard Specifications latest edition, Section 402.15. Provide the minimum number of rollers and coverage. Begin compaction immediately after the mixture has been spread and finished. Rollers shall not cause undue displacement, cracking, or shoving.

F. In areas inaccessible to rollers, compact hot-mix paving with hot, tampers or vibratory--plate compactors in accordance with INDOT Standard Specifications latest edition, Section 408.03(d).

G. Compact each course to within a tolerance of 1/4 inch in lifts not exceeding 2” total thickness. Surface smoothness as determined by using a 10-foot straightedge applied transversely or longitudinally to paved areas shall be within a tolerance of 1/8 inch.

H. Complete finish rolling while the pavement is still warm.

I. After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened

J. Frequency of testing: Coordinate with the Project Geotechnical Engineer to collect one sample of hot-mix asphalt material per lift to determine design mix properties.

2.5 PAVEMENT MARKING PAINT:

A. Do not place pavement markings unless the surface temperature is between 50 deg F and 95 deg F.

B. Pavement-Marking Paint shall be waterborne latex complying with FS TT-P-1952 with a minimum thickness of 15 mils. Apply on clean surface.

2.6 JOINTS:

A. Tack coat all exposed joint surfaces. Offset and install joints as described in AI MS-22, "Construction of Hot Mix Asphalt Pavements."

END OF SECTION 32 12 16

SECTION 32 13 13 – PORTLAND CEMENT CONCRETE PAVEMENT

PART 1 - GENERAL

1.1 WORK INCLUDES:

A. Concrete paving for site slabs on grade.

B. Concrete paving for drives.

C. Concrete paving for roadways.

D. Concrete for curb and gutter.

E. Sealants for construction joints.

F. Sealants for expansion joints.

1.2 REFERENCE STANDARDS AND SPECIFICATIONS:

A. Site Earthwork specification for subgrade and aggregate base requirements.

B. Terms and conditions of construction as required by the Contractor's permit with the controlling agency. When conditions of the permit conflict with proposed work, the contractor shall notify the Engineer for correction prior to installation. Any non-compliant work performed by the Contractor shall be at the Contractor's expense.

C. ACI Publications: Comply with ACI 301, "Specification for Structural Concrete," unless modified by the requirements of the Contract Documents.

D. CRSI's "Manual of Standard Practice"

E. CRSI's "Placing Reinforcing Bars"

F. Control of Site Work specification.

1.3 DELIVERABLES:

A. Record Drawings: Include size, material, depth of cover, location, and elevation of all improvements within the contract documents. Include details of underground structures and connections.

B. Material certificates for the pavement design mix according to ACI 211.1 and ACI 301.

C. Passing test reports.

D. Manufacturer Qualifications: Manufacturer of ready-mixed concrete products complying with ASTM C 94 requirements for production facilities and equipment.

E. Submittal for hot applied joint sealant.

F. Submittal for cold applied joint sealant.

1.4 CONTROL OF WORK:

A. Schedule tests and inspections with the Project Geotechnical Engineer and as required under the conditions of the permit. The finished paving will not be accepted or considered complete until all improvements pass the testing requirements of these specifications and the permitting authority.

PART 2 - PRODUCTS

2.1 AGGREGATE BASE:

A. See the site drawings for material requirements. See the Earthwork Specification for subgrade compaction and installation requirements.

2.2 CONCRETE MATERIALS:

A. Provide ready mixed concrete according to ASTM C 94 with the following properties: 4000 psi at 28 day compressive strength, 0.45 maximum water to cement ratio, and a 4” maximum slump limit. Provide admixtures to establish an air content of 4.5 to 7.5% according to ASTM C 260

B. Portland Cement: ASTM C 150, Type I or II. Aggregate: ASTM C 33, uniformly graded, from a single source.

C. Water: ASTM C 94

D. Provide a medium textured broom finish on all surfaces unless noted otherwise on the plans.

E. Allowable Water-Reducing Admixture according to ASTM C 494, Type A

F. General: Admixtures certified by manufacturer to contain not more than 0.1 percent water-soluble chloride ions by mass of cement and to be compatible with other admixtures

G. Bonding Agent: ASTM C 1059, Type II, non-redispersible, acrylic emulsion or styrene butadiene.

2.3 CONSTRUCTION JOINTS:

A. Place joints at the end of concrete pouring operations if more than 30 minutes has elapsed.

B. Provide joint filler strips according to ASTM D 1751 or ASTM D 1752 and type SL Silicone Sealant complying with ASTM D 5893 for Type SL. Install per the manufacturer’s recommendations and according to ASTM C 1193.

C. Continue reinforcing steel through the construction joint and lap bars of a sufficient development length to assure a good bond with future concrete placement.

2.4 EXPANSION JOINTS:

A. Place joints at the interface between new concrete pavement and: concrete curbs, site structures, building stoops, and at maximum intervals of 50 feet.

B. Provide joint filler strips according to ASTM D 1751 or ASTM D 1752 and type SL Silicone Sealant complying with ASTM D 5893 for Type SL. Install per the manufacturer's recommendations and according to ASTM C 1193.

C. Do not continue reinforcing steel through the expansion joint.

2.5 CONTRACTION JOINTS:

A. Sawcut or hand tool contraction joints in the locations identified on the site drawings. The minimum depth of all joints shall be 25% of the total pavement thickness. Tooled joints shall be a minimum of 1/8" wide, with ¼" radii. Sawcut joints shall be a minimum of 1/8". Joint sealants are not required at contraction joint locations.

2.6 CURING MATERIALS:

A. Provide curing materials after initial placement of concrete. Acceptable methods include: Polyethylene sheeting according to ASTM C 171, burlap cloth according to AASHTO M 182, Class 2, and clear solvent according to ASTM C 309, Type 1, Class B.

2.7 CONCRETE PLACEMENT:

A. Proof-roll prepared subbase surface to check for unstable areas and verify need for additional compaction.

B. Remove snow, ice, or frost from subbase surface and reinforcement before placing concrete. Do not place concrete on frozen surfaces. Do not place concrete when the surface temperature is below 40 deg F.

C. Install clean forms and apply a release agent prior to concrete placement. Use flexible forms for radii that are less than 100'. Allow forms to set for a minimum of 24 hrs after concrete placement before removal.

D. Moisten subbase to provide a uniform dampened condition at the time concrete is placed. Do not place concrete around manholes or other structures until they are at the required finish elevation and alignment.

E. Comply with requirements and with recommendations in ACI 304R for measuring, mixing, transporting, and placing concrete.

F. Do not add water to concrete during delivery, at Project site, or during placement.

G. Consolidate concrete by mechanical vibrating equipment supplemented by hand-spading, rodding, or tamping. Use equipment and procedures to consolidate concrete according to recommendations in ACI 309R.

H. Cold-Weather Placement: Comply with ACI 306 R. When air temperature has fallen to or is expected to fall below 40 deg F, uniformly heat water and aggregates before mixing to obtain a concrete mixture temperature of not less than 50 deg F and not more than 80 deg F at point of placement. Do not use frozen materials or materials containing ice or snow. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators, unless otherwise specified and approved in mix designs.

I. Hot-Weather Placement: Place concrete according to recommendations in ACI 305R. Cool ingredients before mixing to maintain concrete temperature at time of placement below 90 deg F.

J. Tolerance: Gap below 10-foot long, unleveled straightedge not to exceed 1/8 inch. Comply with tolerances of ACI 117 and as follows: Thickness: Plus 3/8 inch, minus 1/4 inch. Elevation: 1/4 inch.

2.8 PAVEMENT MARKING PAINT:

A. Do not place pavement markings unless the surface temperature is between 50 deg F and 95 deg F.

B. Pavement-Marking Paint shall be waterborne latex complying with FS TT-P-1952 with a minimum thickness of 15 mils. Apply on clean surface.

2.9 TESTING:

A. Reports of compressive-strength tests shall include: concrete type and class, location of concrete batch in pavement, design compressive strength at 28 days, concrete mix proportions and materials, compressive breaking strength, and type of break for both 7- and 28-day tests.

B. Additional Tests: Testing agency shall make additional tests of the concrete when test results indicate slump, air entrainment, concrete strengths, or other requirements have not been met, as directed by Architect. Testing agency may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C 42, or by other methods as directed.

C. Frequency of testing: Coordinate with the Geotechnical Engineer to perform a minimum of one test per load delivered to the site.

END OF SECTION 32 13 13

SECTION 32 18 00 - ATHLETIC SURFACES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

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

1.2 SUMMARY:

A. Provide and install running track resilient surface for all field events. This includes, but is not necessarily limited to the following work:
1. Surface Preparation.
2. Resilient Track Surface.
3. All lane marking and striping.
4. All necessary track equipment.

C. The following items are specified under other Sections: Rough Grading, compacted fill, subbase and bituminous paving.

1.3 CONDITIONS OF THE CONTRACT:

A. All work shall be in accordance with the terms and conditions of the Contract Documents.

B. ATHLETIC TRACK SURFACE STANDARDS: The work specified shall be done in accordance with standards for running track construction of the U.S. Tennis Court and Track Builders Association.

C. ATHLETIC TRACK APPLICATOR QUALIFICATIONS: The applicator of the resilient system shall be an approved applicator of the systems specified with a minimum of three (3) years experience; and shall be a member of the U.S. Tennis Court and Track Builders Association or American Sports Builders Association. Contractor shall provide to the Project Architect/Engineer a list that states past projects that they have been involved with that included track construction. A list of contact names and numbers for these past projects are required.

1.4 PERFORMANCE REQUIREMENTS:

A. Guaranteed for a period of two (2) years on all labor and materials.

1.5 SUBMITTALS:

A. Product Data: For the following:
1. Resilient Track Surface.

B. Shop Drawings: Include plans, elevations and details.
1. CERTIFICATIONS: Owner and Contractor shall certify installation and delivery of proper quantities of materials at job site.
2. Manufacturers specifications, application instructions, and general recommendations for material required. Include data substantiating that materials comply with requirements.
3. Evidence of applicator’s qualifications are specified.
4. Manufacturers catalog cuts, installation requirements and color charts for specified finish systems and equipment items.
5. Proposed track lane painting.

C. Design Mix Reports and Calculations: For each layer.

D. Field Test Reports: Indicate and interpret test results for compliance with performance requirements.

1.6 DELIVERY, STORAGE, AND HANDLING:

A. Do not store materials or supplies in direct sunlight.

1.7 PROJECT CONDITIONS:

A. Site Information: Perform site survey and verify conditions of asphalt pavement as base for field events and track.

B. Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
1. Do not proceed with utility interruptions without Architect's written permission.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Products, materials or systems of the Section as specified herein, shall be manufactured by the following: (Or approved equal)
1. Track Surface:
a. REFLEX-I V.L.S. TRACK SURFACE
LESLIE COATINGS, INC.
1101 East 30th Street
Indianapolis, IN 46205

b. PLEXIPAVE SPORT SURFACES
California Products Corporation Plexitrac System
169 Waverly Street
P.O. Box 560359
Cambridge, MA 02139

c. REECE SPEED-FLEX L 400 SYSTEM
Reece Seal Coating, Inc.
1205 W. Troy
Indianapolis, IN 46225

2. Track Striping Paint: Latex Based Acrylic
a. MAB Paints
b. Sherwin Williams
c. Or An Approved Equal.

B. The system shall be a non-fading durable weatherproof system that will remain resilient and flexible and have the proper uniform texture for tennis courts. All materials to be applied shall be fully pigmented. The use of neutral color base or adding of pigments on the job site shall be prohibited.

PART 3 – ATHLETRIC TRACK SURFACE EXECUTION

3.1 New asphalt shall be approved by Owner and shall conform to all specified contours and elevations in accordance with drawings and/or specifications.

3.2 Prior to the application of the Resilient Track Surface the asphalt leveling course shall be examined by the Owner and Contractor so as to approve drainage and planarity of surface. New asphalt surfaces shall cure for a minimum of 14 days.

3.3 After the asphalt base has cured for a minimum of 14 days, or as required by Manufacturer, install the Resilient Track Surface as recommended by the manufacturer and as approved by the engineer.

3.4 Physical Properties of Finished Surface:
- A. Color: Black.
- B. Cure time (each layer): Approximately 24 hours in warm, dry ambient. (Installation is not recommended after October 1 in northern latitudes.)

3.5 A surveyor's transit shall be employed in laying out the striping, and all measurements shall be calculated prior to layout in the field. All events shall be accurate to within a tolerance of one half of one inch and be properly color coded.

3.6 Lane lines shall be per IHSAA standards and Owner direction. Lane numbers and designation letters shall be provided.

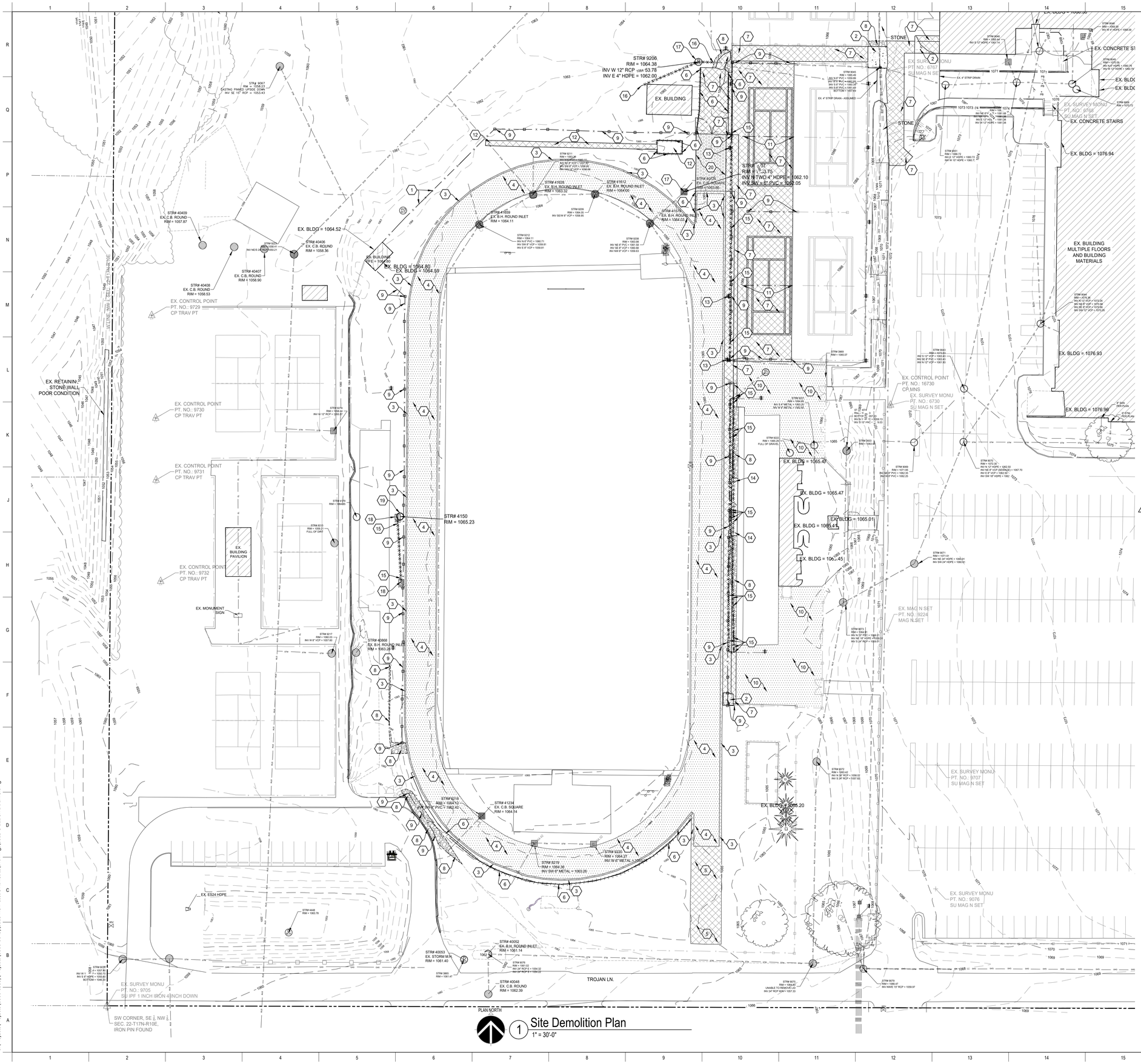
3.7 All start and finish lines shall be masked. One (1) coat of acrylic striping paint shall be applied to all lines.

3.8 The contractor shall provide shop drawings of the proposed track lane painting for Project Architect/Engineer's approval prior to any painting being done.

3.9 All work is to be done in accordance with U.S. Tennis Court and Track Builders Association standards, and striping layout and measurements shall be in accordance to the National Federation of State High Schools Association. All work is guaranteed for period of two (2) years on all labor and materials.

- A. This warranty excludes delamination and or blistering caused by improper drainage of the surface, sub-base and or the site.

END OF SECTION 32 18 00



Site Demolition Plan

① 1" = 30'-0"

DEMOLITION LEGEND:

▨	SAWCUT AND REMOVE ASPHALT PAVEMENT / SYNTHETIC TRACK.
░	SAWCUT AND REMOVE CONCRETE SIDEWALK, DRIVE, OR SLAB.
▒	REMOVE STONE / REMNANTS.
⠿	MILL 2" OF EXISTING SYNTHETIC TRACK OR 1 1/2" OF ASPHALT PAVEMENT, AS NECESSARY, FOR WEDGE AND LEVEL, MILLING AS REQUIRED. SEE LAYOUT PLAN.
⬡	MILL 1 $\frac{1}{2}$" ASPHALT. SEE LAYOUT PLAN.
‒/‒/‒/‒/‒	REMOVE CONCRETE CURB.
‒X‒X‒X‒X‒	REMOVE OR ABANDON UTILITY, AS REQUIRED, FOR NEW CONSTRUCTION. COORDINATE ALL WORK WITH UTILITY OWNER.

DEMOLITION NOTES:

1. REMOVE EXISTING BARB WIRE FENCE. SEE SITE LAYOUT PLAN FOR PROPOSED FENCE.
2. SAWCUT AND REMOVE CONCRETE SIDEWALK AT NEAREST JOINT.
3. SAWCUT AND REMOVE PAVEMENT (12" MINIMUM) ALONG TRACK EDGE TO PRODUCE FLUSH EDGE.
4. MILL 2" OF EXISTING TRACK SURFACE FOR WEDGE AND LEVEL. SEE LAYOUT PLAN.
5. SAWCUT AND REMOVE EXISTING TRACK.
6. SAWCUT AND REMOVE CONCRETE CURB.
7. SAWCUT AND REMOVE ASPHALT PAVEMENT.
8. REMOVE STONE / REMNANTS.
9. CAREFULLY REMOVE AND RELOCATE FENCE. SEE SITE LAYOUT PLAN FOR PROPOSED LOCATION.
10. ALTERNATE: MILL 1 1/2" OF EXISTING ASPHALT SURFACE. SEE LAYOUT PLAN.
11. REMOVE TENNIS NET AND NET POSTS INCLUDING FOUNDATIONS.
12. REMOVE LONG JUMP. SEE SITE LAYOUT PLAN FOR NEW LOCATION.
13. REMOVE LIGHT POLE INCLUDING FOUNDATIONS.
14. REMOVE BLEACHER RAMP. SEE ARCHITECTURAL DRAWINGS FOR PROPOSED RAMP
15. REMOVE AND RELOCATE ELECTRICAL, SEE SITE ELECTRICAL PLAN.
16. REMOVE STORM LINE.
17. REMOVE STORM STRUCTURE.
18. REMOVE AND RELOCATE ELECTRICAL STRUCTURE. SEE SITE ELECTRICAL.
19. CONTRACTOR TO REMOVE AND RELOCATE STRUCTURE (SEWER). FIELD VERIFY EXISTING PIPING, EXTEND AND RECONNECT. SEE SITE UTILITY PLAN FOR PROPOSED LOCATION. △1
20. MILL 1 $\frac{1}{2}$" ASPHALT. SEE LAYOUT PLAN.

GENERAL NOTES:

1. OBTAIN ALL REQUIRED PERMITS AND COORDINATE INSPECTIONS FROM AUTHORITIES HAVING JURISDICTION.
2. CONTRACTOR SHALL NOT INTERRUPT ANY SERVICE TO ADJACENT PROPERTIES WITHOUT WRITTEN AUTHORIZATION FROM PROPERTY OWNER. AN EMERGENCY PLAN SHALL BE PROVIDED TO THE ENGINEER PRIOR TO CONSTRUCTION TO OUTLINE CORRECTIVE MEASURES IN THE EVENT OF ANY UNAUTHORIZED UTILITY SHUTDOWN.
3. CONTRACTOR SHALL STUDY ALL DRAWINGS PRIOR TO CONSTRUCTION. RESEARCH PUBLIC UTILITY RECORDS, CONTACT THE LOCAL UTILITY LOCATOR SERVICE, AND FIELD VERIFY ALL EXISTING STRUCTURES PRIOR TO CONSTRUCTION. CONTACT ENGINEER FOR DIRECTION IF EXISTING UTILITY CONDITIONS CONFLICT WITH PROPOSED WORK, OR ANY ALTERATIONS SHALL BE THE CONTRACTORS RESPONSIBILITY.
4. EXISTING UTILITIES ARE APPROXIMATIONS BASED ON BEST AVAILABLE DATA. CAUTION SHALL BE EXERCISED TO NOT INTERRUPT SERVICE TO ANY BUILDING. EXPLORATORY TRENCH TO VERIFY DEPTH AND LOCATION OF SEWERS PRIOR TO CONSTRUCTION OF NEW SEWER UTILITIES. ASSURE ALL SANITARY FLOW IS DIRECTED INTO THE SANITARY SEWER ON-SITE AND ALL STORM WATER IS DIRECTED INTO THE STORM SEWER SYSTEM.
5. CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION REQUIRED BY UTILITY OWNERS TO CONSTRUCT PROJECT.
6. PROVIDE RECORD DRAWINGS TO THE OWNER FOR BELOW GRADE IMPROVEMENTS. INCLUDE: MATERIALS OF CONSTRUCTION, SIZE, ELEVATIONS, AND LOCATION DESCRIPTIONS IN THE RECORD. RECORD DRAWINGS SHALL BE CERTIFIED BY A LAND SURVEYOR REGISTERED IN THE STATE OF INDIANA.
7. CONTRACTOR SHALL COORDINATE WITH EACH UTILITY PROVIDER TO DETERMINE TOTAL COST OF SERVICE TO BUILDING AND TO INCLUDE IN THE COST OF THE PROJECT.
8. CONTRACTOR SHALL LOCATE ALL PRIVATE UTILITIES NOT COVERED BY THE PUBLIC LOCATING SERVICE.
9. CONSTRUCTION DE-WATERING AS NECESSARY BY CONTRACTOR.
10. ADJUST ANY EXISTING MANHOLES, VALVES, HYDRANTS, AND HANDHOLES, LOCATED WITHIN PROJECT LIMITS, TO PROPOSED GRADES.
11. CONTRACTOR SHALL SUPPORT AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION OF ADJACENT WORK.
12. SEE SITE SURVEY FOR EXISTING CONDITIONS. IF ABANDONED WELLS ARE DISCOVERED ON THE PROPERTY, THEY MUST BE CAPPED BY A LICENSED WELL DRILL DRILLER ACCORDING TO INDIANA WELL DRILLING CODES AND REGULATIONS.
13. COORDINATE ALL DEMOLITION WORK WITH OWNER.
14. CONTRACTOR IS RESPONSIBLE FOR ALL PERMIT FEES, TAPPING FEES, INSPECTION FEES, ETC.

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SEAL

MARK D. REINHARD
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New Castle CSC
Track Improvements
801 Parkview Dr.
New Castle, IN 47362

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM #1	4/21/25

PROJECT NO.	ISSUE DATE
2501100	2025-04-03

SUBMITTAL
Issue for Bids, Permits, and Construction

Site Demolition Plan

C-111

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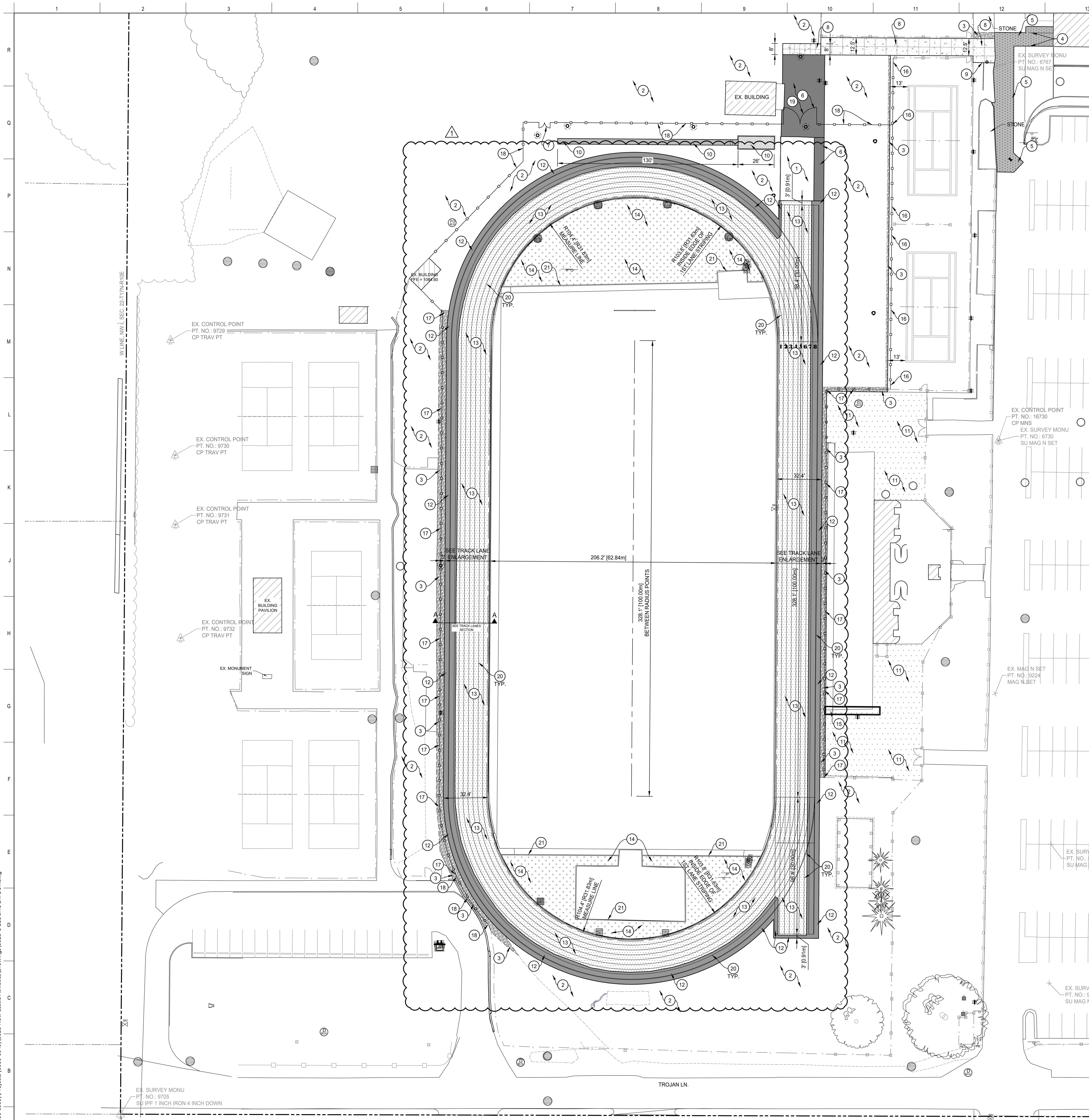


PLAN NORTH

1 Site Layout Plan
1" = 30'-0"

LAYOUT LEGEND:

- ASPHALT PAVEMENT TYPE "A" PER DETAIL #13/C-611.
- ASPHALT PAVEMENT TYPE "B" PER DETAIL #14/C-611.
- SYNTHETIC TRACK SURFACE PER DETAILS #6/C-611.
- 6" CONCRETE PAVEMENT PER DETAILS #2 & #9/C-611.
- STONE SURFACE PER DETAIL #5/C-611.
- FOR REFERENCE ONLY- SYNTHETIC TURF BY MOTZ GROUP
- 1/2" OF SYNTHETIC TRACK SURFACE OVER VARIABLE DEPTH OF HMA SURFACE, 3/8", MAINLINE. WEDGE AND LEVEL EXISTING SYNTHETIC TRACK SURFACE. COORDINATE AREA WITH SPOT ELEVATIONS. MILLING AS REQUIRED. PER DETAIL #7/C-611.
- ALTERNATE: 1 1/2" OF ASPHALT SURFACE PER DETAIL #3/C-611.

NOTE: ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

PROPOSED LEGEND:

- STORM INLET / MANHOLE
- GATE VALVE

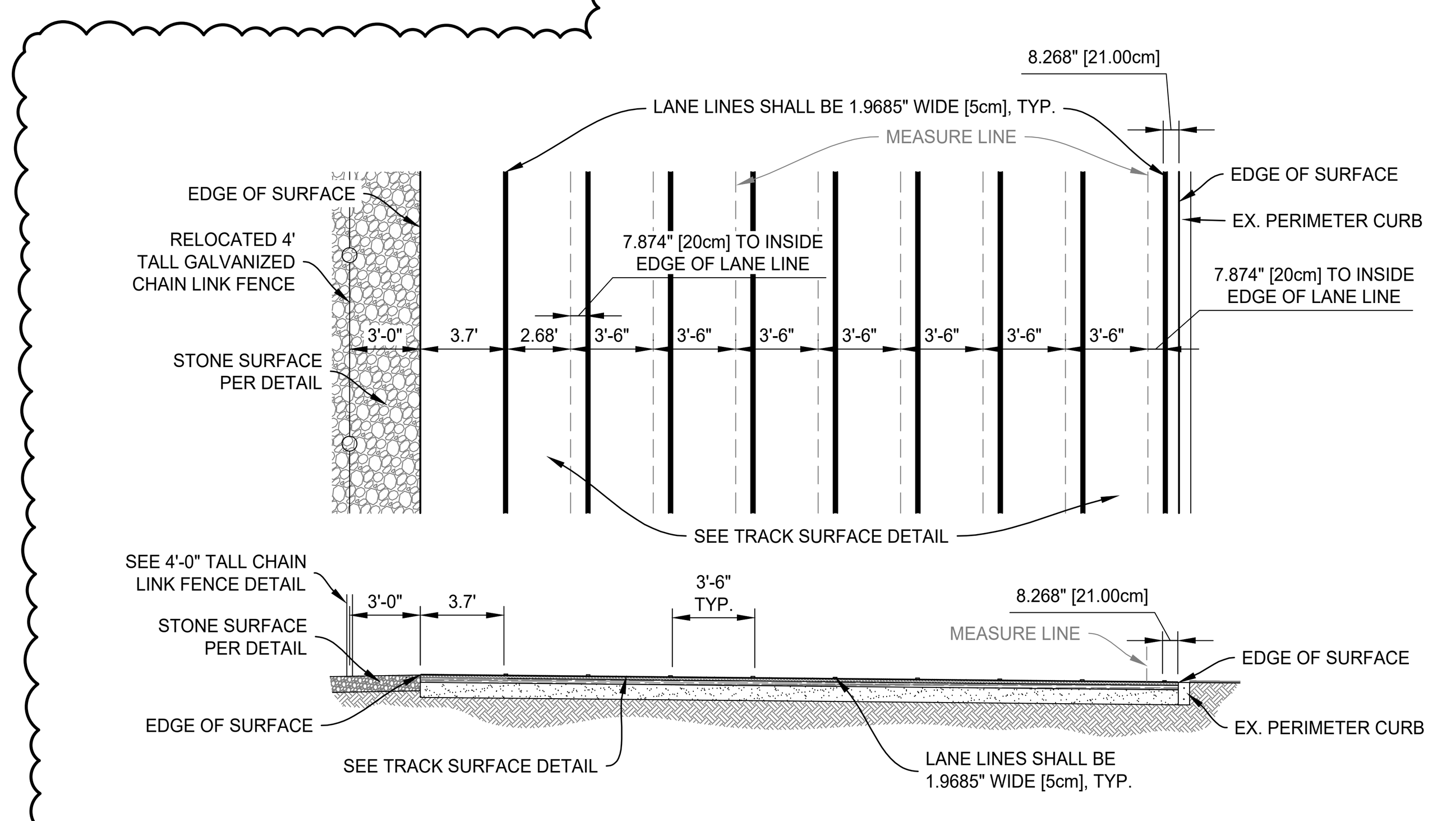
LAYOUT NOTES:

1. MILL AND REPLACE 1 ½" EXISTING ASPHALT SURFACING. PER DETAIL #3/C-611.
2. GRASS/LANDSCAPE AREA. ALL DISTURBED AREAS TO RECEIVE PERMANENT SEEDING. SEE SPECIFICATIONS SECTION 329200 "LAWNS & GRASSES".
3. STONE SURFACE PER DETAIL #5/C-611.
4. PAVEMENT MARKING SHALL BE 4" WHITE WATERBORNE PAINT.
5. ASPHALT PAVEMENT TYPE "A" PER DETAIL #13/C-611.
6. ASPHALT PAVEMENT TYPE "B" PER DETAIL #14/C-611.
7. 8' TALL BLACK VINYL COATED CHAIN LINK 8' WIDE DOUBLE SWING MAN GATE.
8. 6" CONCRETE PAVEMENT PER DETAILS #2 & #9/C-611.
9. DOWELED BUTT JOINT PER DETAIL #4/C-611.
10. LONG JUMP PER DETAILS #10, #11, & #12/C-611.
11. ALTERNATE: 1 ½" ASPHALT SURFACE PER DETAIL #3/C-611.
12. SYNTHETIC TRACK PER DETAIL #6/C-611.
13. 1/2" OF SYNTHETIC TRACK SURFACE OVER HMA SURFACE, 3/8", MAINLINE PER DETAIL #7/C-611.
14. ALTERNATE: ARTIFICIAL TURF PER DETAILS #22/C-611.
15. FOR REFERENCE ONLY: L-SHAPE METAL HANDICAP RAMP, SEE ARCHITECTURAL PLANS. FOUNDATION OR CONCRETE PAD AS PER MANUFACTURER.
16. RELOCATED 10' TALL GALVANIZED CHAIN LINK FENCE. PROVIDE NEW POST FOR ANY POSTS DAMAGED DURING DEMOLITION. MATCH EXISTING GATE SIZE AND LOCATIONS.
17. RELOCATED 4' TALL GALVANIZED CHAIN LINK FENCE. PROVIDE NEW POST FOR ANY POSTS DAMAGED DURING DEMOLITION. PROVIDE NEW 4' TALL GALVANIZED CHAIN LINK FENCE AS REQUIRED FOR NEW LENGTH OF FENCE. MATCH EXISTING FENCE MATERIALS, HARDWARE, POSTS ETC. MATCH EXISTING GATE SIZE AND LOCATIONS.
18. 8' TALL BLACK VINYL COATED CHAIN LINK FENCE PER DETAIL #8/C-611.
19. 8' TALL BLACK VINYL COATED CHAIN LINK 26' WIDE DOUBLE SWING VEHICLE GATE .
20. TRACK STRIPING AND FIELD MARKINGS PER SPECIFICATIONS.
21. PERIMETER CURB PER DETAIL #23/C-611.

TRACK STRIPING AND FIELD MARKINGS:

CONTRACTOR RESPONSIBLE FOR ENSURING THE TRACK MARKINGS MARKINGS MEET NFHS CURRENT STANDARDS. IF MARKINGS CONFLICT WITH NFHS REGULATIONS, NOTIFY ENGINEER.

PRIOR TO CONSTRUCTION THE FIELD CONTRACTOR SHALL SUBMIT TO ENGINEER SHOP DRAWINGS SHOWING PROPOSED FIELD DIMENSIONS AND MARKINGS WITH MANUFACTURERS CERTIFICATION THAT DIMENSIONS AND MARKINGS COMPLY WITH NFHS REGULATIONS.



NOTE: VERIFY STRIPING DIMENSIONS WITH TRACK INSTALLER.

PLAN NORTH

2 TRACK LANE ENLARGEMENT & SECTION A-A
1/2" = 1'-0"

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New Castle, IN 47362

NEW CASTLE COMMUNITY SCHOOL CORPORATION

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM #1	4/21/25

PROJECT NO. 2501100
ISSUE DATE 2025-04-03
SUBMITTAL Issue for Bids, Permits, and Construction

Site Layout Plan

C-211

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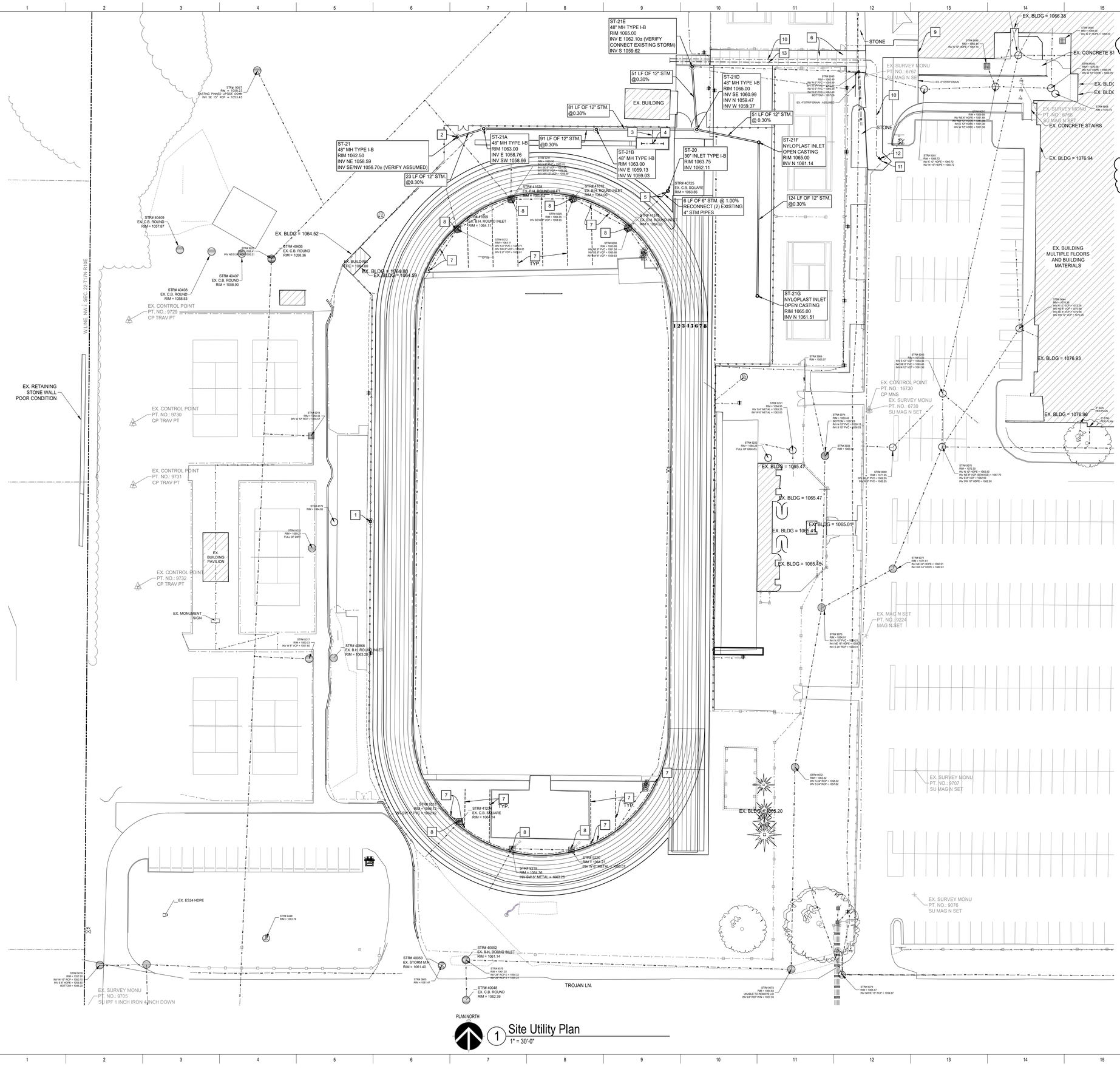

PLAN NORTH

① Site Utility Plan
1" = 30'-0"

UTILITY NOTES:

1. INSTALL CONCRETE STRUCTURE TO RELOCATE EXISTING. EXTEND PIPING AS NECESSARY. COORDINATE WITH OWNER.
2. CONTRACTOR TO VERIFY EXISTING INVERT PRIOR TO ORDERING STRUCTURE. CONNECT TO PROPOSED STRUCTURE WITH WATERTIGHT CONNECTION.
3. 4" SUBDRAIN 1.0% MIN. PER DETAIL #18/C-611. CONTECT TO STORM MAIN WITH INSERT-A-TEE CONNECTION.
4. 4" SUBDRAIN IN LONG JUMP PIT PER DETAIL #10/C-611.
5. PRIOR TO ORDERING PROPOSED STRUCTURE. FIELD VERIFY AND MATCH INVERT ELEVATION, MATERIAL AND SLOPE. EXTEND AND CONNECT EXISTING 6" PVC STORM PIPE TO PROPOSED STRUCTURE. PROVIDE PROPER FITTINGS FOR CONNECTION SEAL WATERTIGHT. CONNECT 2 EXISTING TO REMAIN 4" HDPE PIPES TO PROPOSED STRUCTURE. COORDINATE WITH ENGINEER ANY DISCREPANCY.
6. INSTALL (2) 4" CONDUITS WITH PULL STRINGS FOR COMMUNICTION LINES. COORDINATE WITH ELECTRICAL PLANS AND OWNER. CAP AT ENDS AND PLACE REBAR MARKER MIN 12" ABOVE GRADE.
7. ALTERNATE "D" ZONE: - SUBDRAIN AND PERIMETER DRAIN CONNECTION PER DETAILS #18/C-611 AND #21/C-611. COORDINATE WITH TURF INSTALLER TO TIE SUBDRAIN INTO TRUNK LINE.
8. ALTERNATE "D" ZONE: LOWER EXISTING CASTING 3" BELOW GRADE AND PROVIDE SOLID LID. COORDINATE WITH TURF INSTALLER.
9. COORDINATE CONNECTION WITH THE UTILITY COMPANY AND OWNER.
10. 1.5" WATER LINE. CAP AT END AND PLACE REBAR MARKER MIN 12" ABOVE GRADE.
11. 1.5" CORPORATION STOP.
12. 1.5" CURB STOP AND BOX.
13. GAS SERVICE. COORDINATE WITH GAS SERVICE PROVIDER. CAP AT END AND PLACE REBAR MARKER MIN 12" ABOVE GRADE.

PROPOSED LEGEND:

☐ ○	STORM INLET / MANHOLE	═══	STORM SEWER
⋈	GATE VALVE	— W — W —	WATER LINE
		— GAS — GAS —	GAS LINE
		— COM — COM —	COMM LINE
		— x — x —	FENCE LINE

WATER MAIN NOTES:

1. WATER TO BE SUPPLIED BY THE CITY OF NEW CASTLE WATER UTILITY
2. WATER MAINS SHALL BE INSTALLED ACCORDING TO CITY OF NEW CASTLE STANDARDS AND SPECIFICATIONS.
3. THE WATER MAIN IS TO BE INSTALLED WITH A MINIMUM COVER OF 5'-0"
4. WHERE SANITARY AND/OR STORM SEWER(S) AND WATER MAIN CROSS, ONE FULL LENGTH OF WATER MAIN SHOULD BE CENTERED OVER THE SANITARY AND/OR STORM SEWER, AND THE VERTICAL DISTANCE TO BE A MINIMUM OF 18 INCHES. WHERE WATER LINES AND SEWER CROSS AND THE CLEARANCE CANNOT BE MAINTAINED, THE SEWER MUST BE CONSTRUCTED OF WATERWORKS GRADE DUCTILE IRON PIPE WITH MECHANICAL JOINTS OF SDR 21 PVC PRESSURE SEWER PIPE WITH COMPRESSION FITTINGS WITHIN TEN FEET OF THE WATER LINE.
5. WHERE A WATER MAIN CROSSES UNDER A SEWER, THE MAIN SHALL USE 22° ELBOWS TO MINIMIZE THE LENGTH OF WATER MAIN INSTALLED IN EXCESS OF 5.0 FEET COVER.
6. THE MINIMUM HORIZONTAL DISTANCE BETWEEN THE WATER MAIN AND THE STORM OR SANITARY SEWER MAIN IS 10.0 FEET.
7. ALL TEES, CROSSES, BENDS, AND ELBOWS EXCEEDING 11 $\frac{1}{2}$ ° SHALL BE RESTRAINED.
8. WATER SERVICE TO BE COPPER OR HDPE TO MEET BUILDING, MECHANICAL, AND LOCAL UTILITY REQUIREMENTS AND CODES. FOR MATERIAL AND JOINTS.
9. ALL PIPE JOINTS SHALL BE IN ACCORDANCE WITH ANSI SPECIFICATIONS OF A21.11 (AWWA C-111).
10. ALL MATERIALS ARE CERTIFIED IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) NATIONAL SANITATION FOUNDATION (NSF) INTERNATIONAL STANDARD 61.
11. ALL WATER MAINS AND THEIR ACCESSORIES SHALL BE INSTALLED AND PRESSURE AND LEAK TESTED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF AWWA STANDARD C600-93, C602-89, C603-90, C605-94, OF C606-87.
12. THE CONTRACTOR SHALL GUARANTEE THE INSTALLATION FOR ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
13. ALL WORK TO CONFORM TO STATE AND LOCAL PLUMBING BACKFLOW PREVENTION CODES AND THE SPECIFICATIONS OF THE CITY OF NEW CASTLE WATER UTILITY. PER STATE CODE, BACKFLOW DEVICES ARE TO BE TESTED UPON INSTALLATION AND THEN PERIODICALLY THEREAFTER. SUBMIT COPIES OF TESTS TO THE ITY ENGINEERING DEPARTMENT.
14. VACUUM BREAKERS MUST BE INSTALLED ON ALL EXISTING OR PROPOSED HOSE BIBBS, MOP/SERVICE SINKS, WALL/YARD HYDRANTS.
15. ALL PIPE SHALL BE INSTALLED ACCORDING TO SPECIFICATIONS AND PIPE TRENCH DETAIL #15/C-611.

STORM SEWER NOTES:

1. MATERIAL AND WORKMANSHIP SHALL COMPLY WITH THE CITY OF NEW CASTLE STANDARDS AND SPECIFICATIONS.
2. ALL PIPE 12" AND SMALLER SHALL BE SDR 35 PVC, OR ADS N-12 HDPE UNLESS OTHERWISE NOTED. ALL PIPE LARGER THAN 12" SHALL BE ADS N-12 HDPE OR C76 CL-III RCP UNLESS OTHERWISE NOTED. ALL PIPE SHALL BE INSTALLED ACCORDING TO SPECIFICATIONS AND PIPE TRENCH DETAIL #15/C-611.
3. MAINTAIN 10'-0" MINIMUM HORIZONTAL AND 18" MINIMUM VERTICAL SEPARATION BETWEEN ALL SEWER PIPING AND POTABLE WATER PIPING. WHEN MINIMUM TOLERANCES CAN'T BE MAINTAINED, USE WATERWORKS GRADE PIPE AND FITTINGS OF MATERIAL SELECTED.

NOTE: PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES AND THE END OF END SECTIONS/TRASH RACKS UNLESS OTHERWISE NOTED.

NOTE: ADJUST ALL EXISTING MANHOLES, VALVES, HYDRANTS AND HANDHOLES TO PROPOSED GRADES.

NOTE: CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AS REQUIRED BY STATE AND LOCAL AUTHORITIES.

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WRITTEN DIMENSIONS ON THESE DOCUMENTS SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DRAWINGS AND OR DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW BEFORE PROCEEDING WITH FABRICATION.

SEAL
04-03-2025
MARK D. REINHARD
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REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM #1	4/21/25

PROJECT NO.
2501100

ISSUE DATE
2025-04-03

SUBMITTAL
Issue for Bids, Permits, and Construction

Site Utility Plan

C-411

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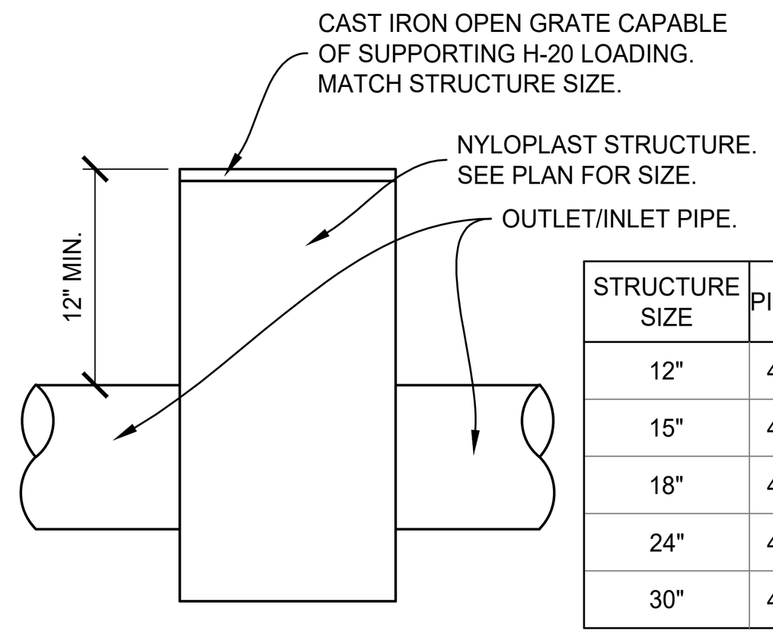
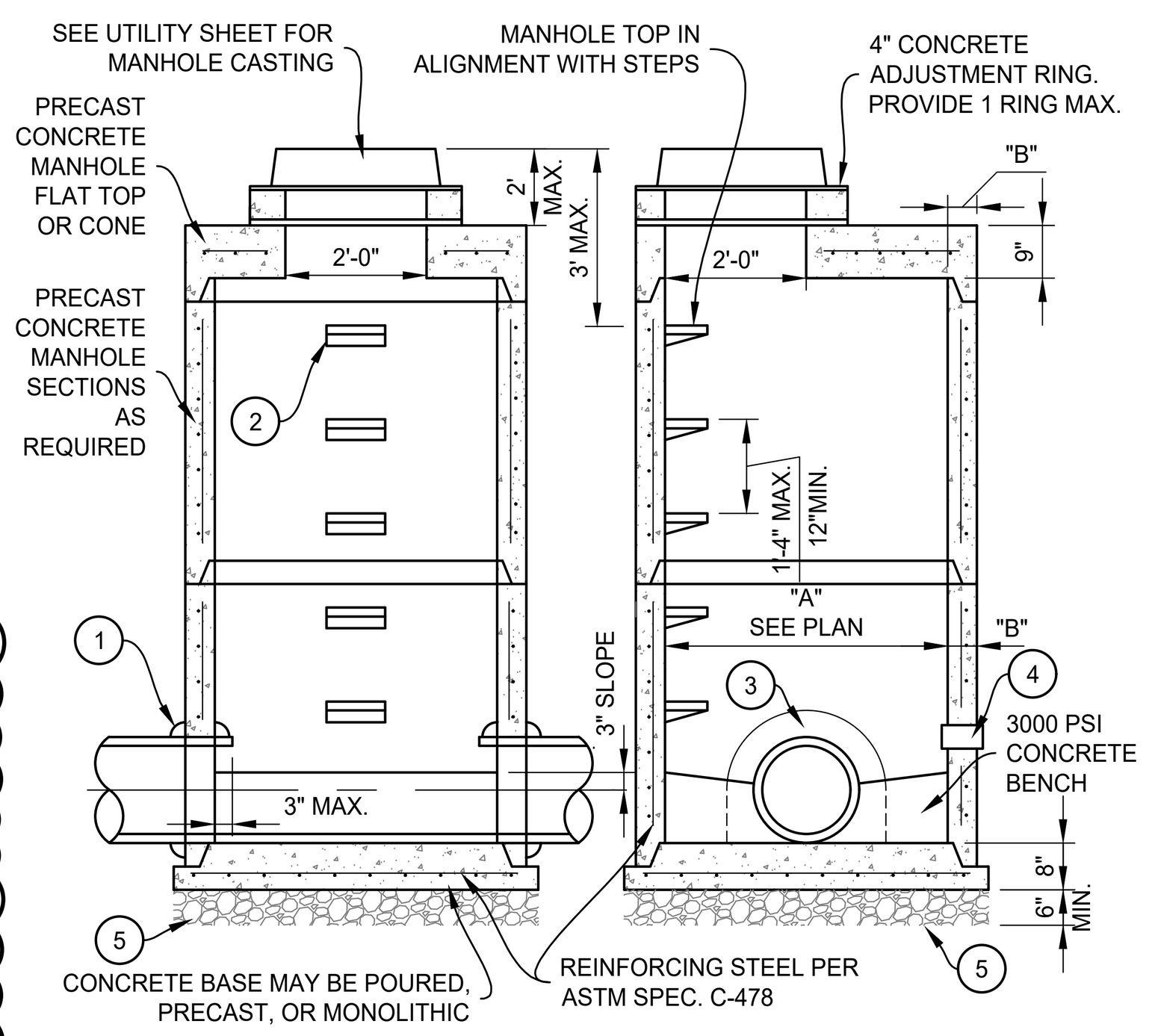


NOTE:
NYLOPLAST DRAIN BASIN AND CASTING AS DISTRIBUTED BY DRAINAGE SYSTEMS, INC. OR APPROVED EQUAL.

STRUCTURE SIZE	PIPE SIZES	STR. MODEL #	CASTING MODEL #
12"	4" TO 12"	2812AG	1299CGS
15"	4" TO 15"	2815AG	1599CGS
18"	4" TO 18"	2818AG	1899CGS
24"	4" TO 24"	2824AG	2499CGS
30"	4" TO 30"	2830AG	3099CGS

20 Nyloplast Structure
None



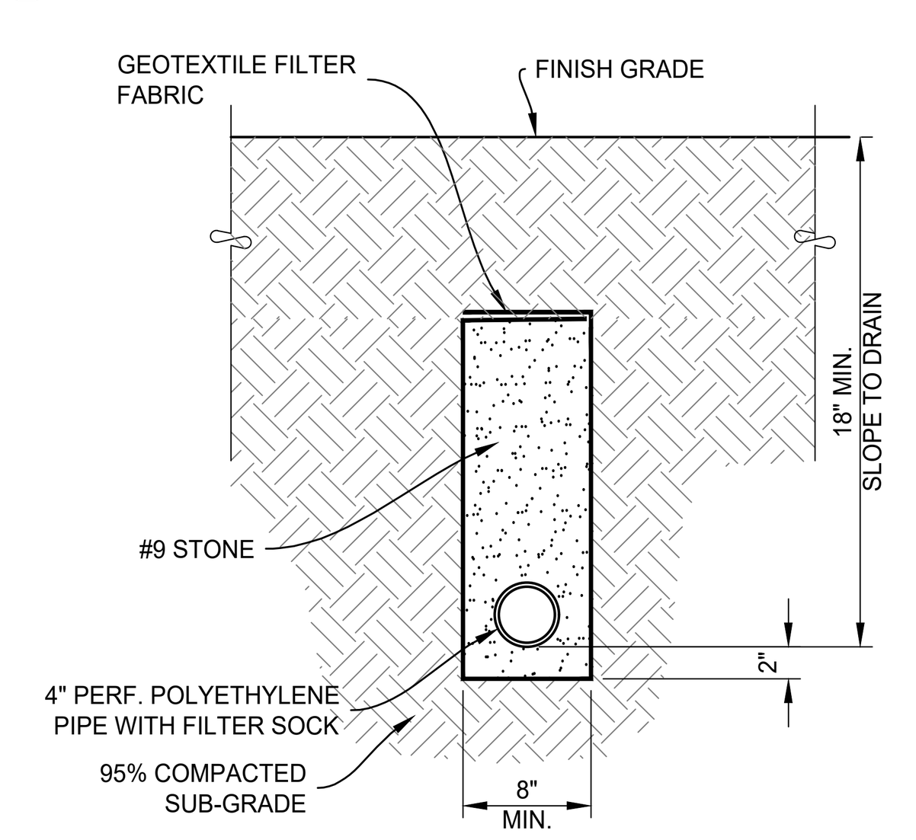
DETAIL NOTES:
1. SEAL STRUCTURE WALL WITH PSX BOOT, OR A-LOK GASKET FOR SMOOTH WALL ACCORDING TO ASTM C923.
2. STANDARD FIBERGLASS MANHOLE STEPS.
3. DRILLED OR PRECAST OPENING.
4. (2) WEEP PIPES REQUIRED FOR EACH STORM STRUCTURE. PROVIDE FILTER FABRIC OVER WEEP OPENING.
5. #8 GRAVEL BASE.

NOTE: BOOTS REQUIRED UNLESS LOCAL COMMUNITY ALLOWS OTHERWISE.

WALL THICKNESS	
"A" MH DIA.	"B"
48"	5"
60"	6"
72"	7"
84"	8"
96"	9"
108"	10"
120"	11"

GENERAL CONSTRUCTION REQUIREMENTS:
1. MANHOLE MADE IN ACCORDANCE WITH ASTM C-478 AND INDOT SECTION 720 SPECIFICATION STANDARDS.
2. ALL PIPES SHALL HAVE A SMOOTH FINISH
3. MANHOLE JOINTS TONGUE AND GROOVE WITH BUTYL ROPE OR RING IN ACCORDANCE WITH ASTM C-443 AND ASTM C891.
4. THE BASE SHALL BE PLACED ON 6" MIN. COMPACTED CLASS I OR CLASS II MATERIAL AS DESCRIBED IN ASTM D2321.

19 Storm Manhole Type "I"
3/8" = 1'-0"



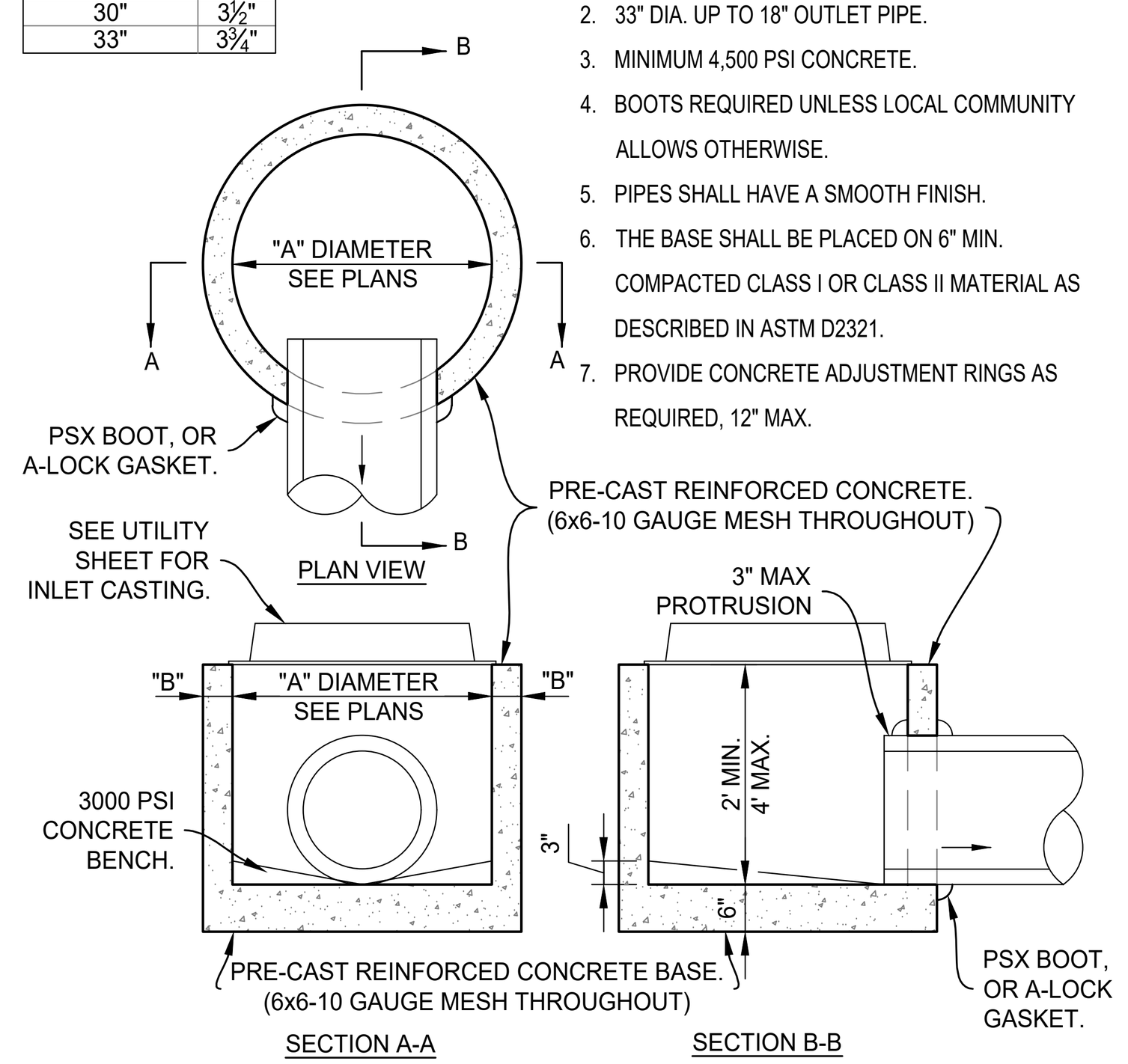
18 Subdrain
None

CASTING TYPE	CATALOG NUMBER		DESCRIPTION	PLAN VIEW	SECTION VIEW
	NEENAH	EAST JORDAN			
B	LID: 2502 FRAME: 1772	LID: 1022-M1 FRAME: 1022	OPEN W/ FISH LOGO		

NOTES:
1. CASTINGS SPECIFIED, OR APPROVED EQUAL
2. ALL BEARING SURFACES TO BE MACHINED.
3. COMPLY WITH ASTM A48-83 CLASS #35.
*WHEN USED WITH STORM INLET, CONTRACTOR TO VERIFY IF A SPECIAL ORDER CASTING IS NEEDED TO PROVIDE SUFFICIENT SUPPORT.

17 Casting Schedule
None

WALL THICKNESS	
"A" STR. DIA.	"B"
30"	3½"
33"	3¾"



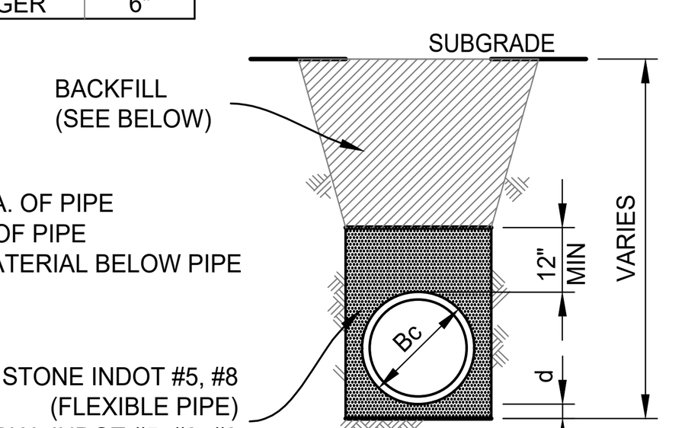
NOTES:
1. 30" DIA. UP TO 15" OUTLET PIPE.
2. 33" DIA. UP TO 18" OUTLET PIPE.
3. MINIMUM 4,500 PSI CONCRETE.
4. BOOTS REQUIRED UNLESS LOCAL COMMUNITY ALLOWS OTHERWISE.
5. PIPES SHALL HAVE A SMOOTH FINISH.
6. THE BASE SHALL BE PLACED ON 6" MIN. COMPACTED CLASS I OR CLASS II MATERIAL AS DESCRIBED IN ASTM D2321.
7. PROVIDE CONCRETE ADJUSTMENT RINGS AS REQUIRED, 12" MAX.

16 Inlet Type "I"
1/2" = 1'-0"

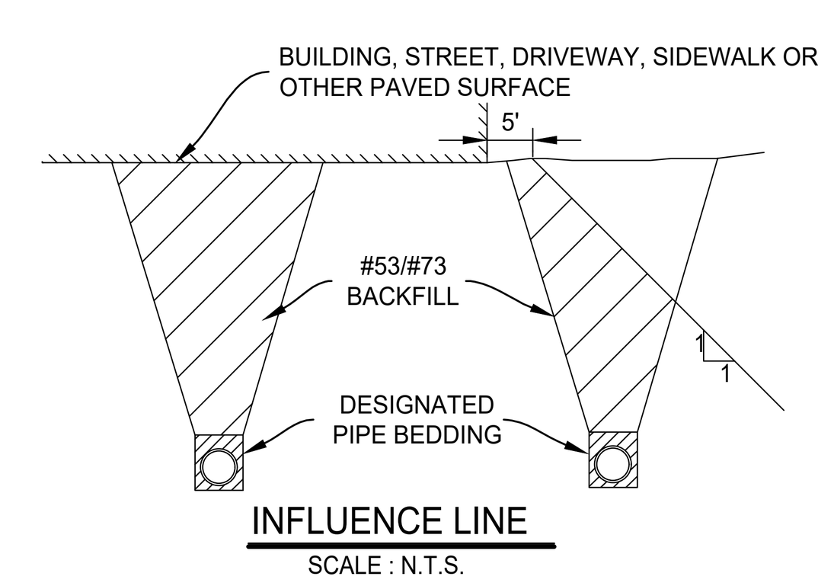
BEDDING SPECIFICATIONS
1. FOR ROCK OR OTHER NON-COMPRESSIBLE MATERIAL, THE TRENCH SHALL BE OVER EXCAVATED A MINIMUM OF 6" AND REFILLED WITH BEDDING MATERIAL.
2.

DEPTH OF BEDDING MATERIAL BELOW PIPE	
D	d(Min.)
LESS THAN 60"	4"
60" & LARGER	6"

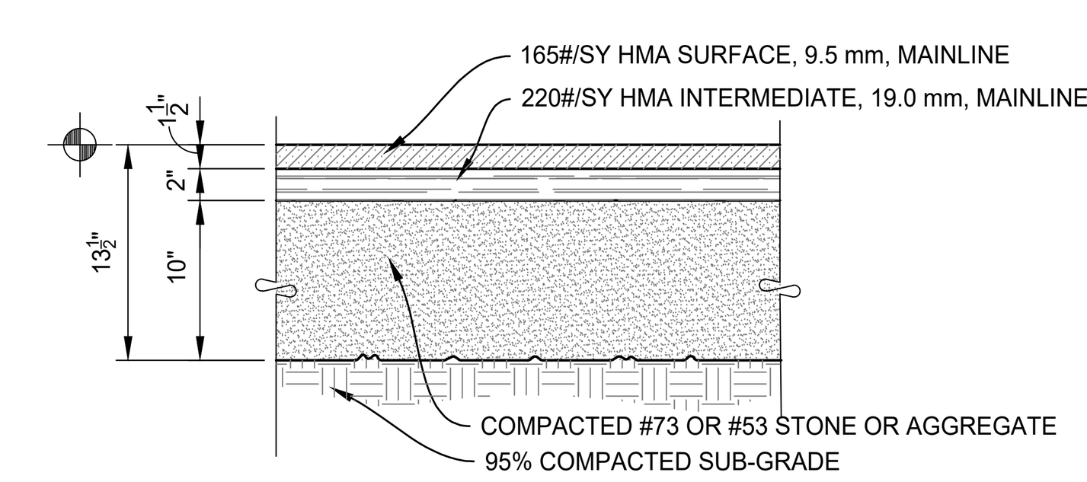
LEGEND
Bc = OUTSIDE DIA. OF PIPE
D = INSIDE DIA. OF PIPE
d = BEDDING MATERIAL BELOW PIPE BELL



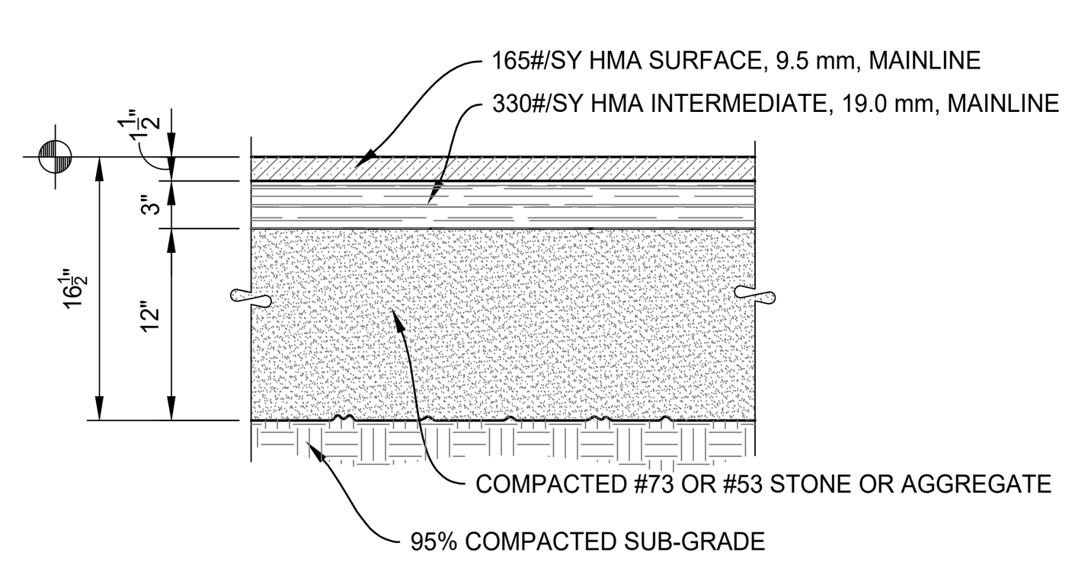
BACKFILL SPECIFICATIONS
1. BACKFILL WITHIN PUBLIC R.O.W., UNDER PAVED AREAS, AND WITHIN THE INFLUENCE OF BUILDING STRUCTURES SHALL BE INDOT #53/#73. INFLUENCE ZONE SHALL EXTEND AT A 1:1 SLOPE FROM ABOVE ITEM. COMPACTION SHALL MEET OR EXCEED 95% OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557.
2. BACKFILL WITHIN LAWN AREAS AND OUT OF THE INFLUENCE OF BUILDING STRUCTURES, PAVED AREAS, AND PUBLIC R.O.W., SHALL BE STANDARD BACKFILL. STANDARD BACKFILL SHALL BE FREE OF: ROCK AND GRAVEL LARGER THAN 3" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATERIAL ACCORDING TO ASTM D 2487. COMPACTION SHALL MEET OR EXCEED 90% OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 1557.



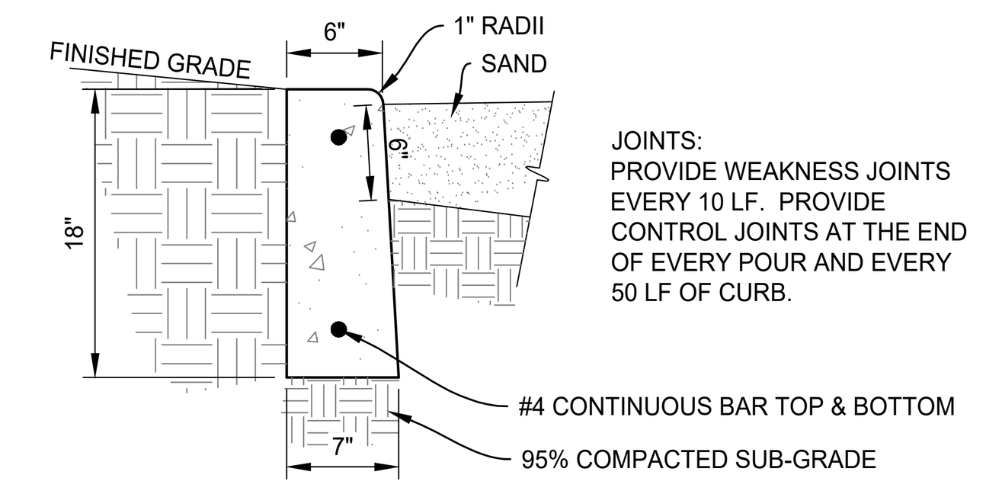
15 Pipe Trench Detail
None



14 Pavement Type "B"
1" = 1'-0"

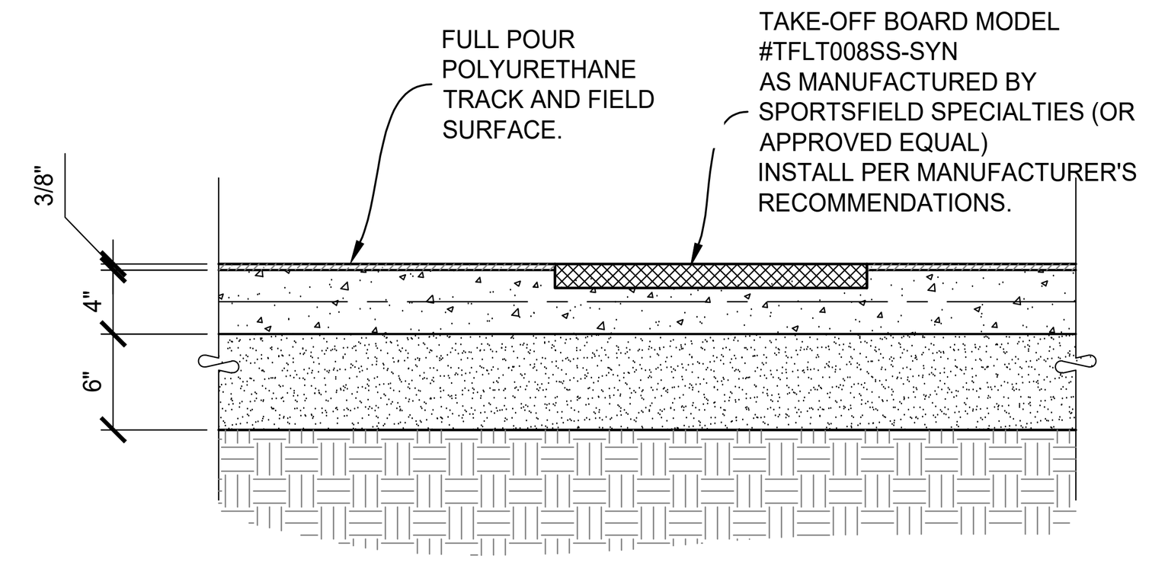


13 Pavement Type "A"
1" = 1'-0"

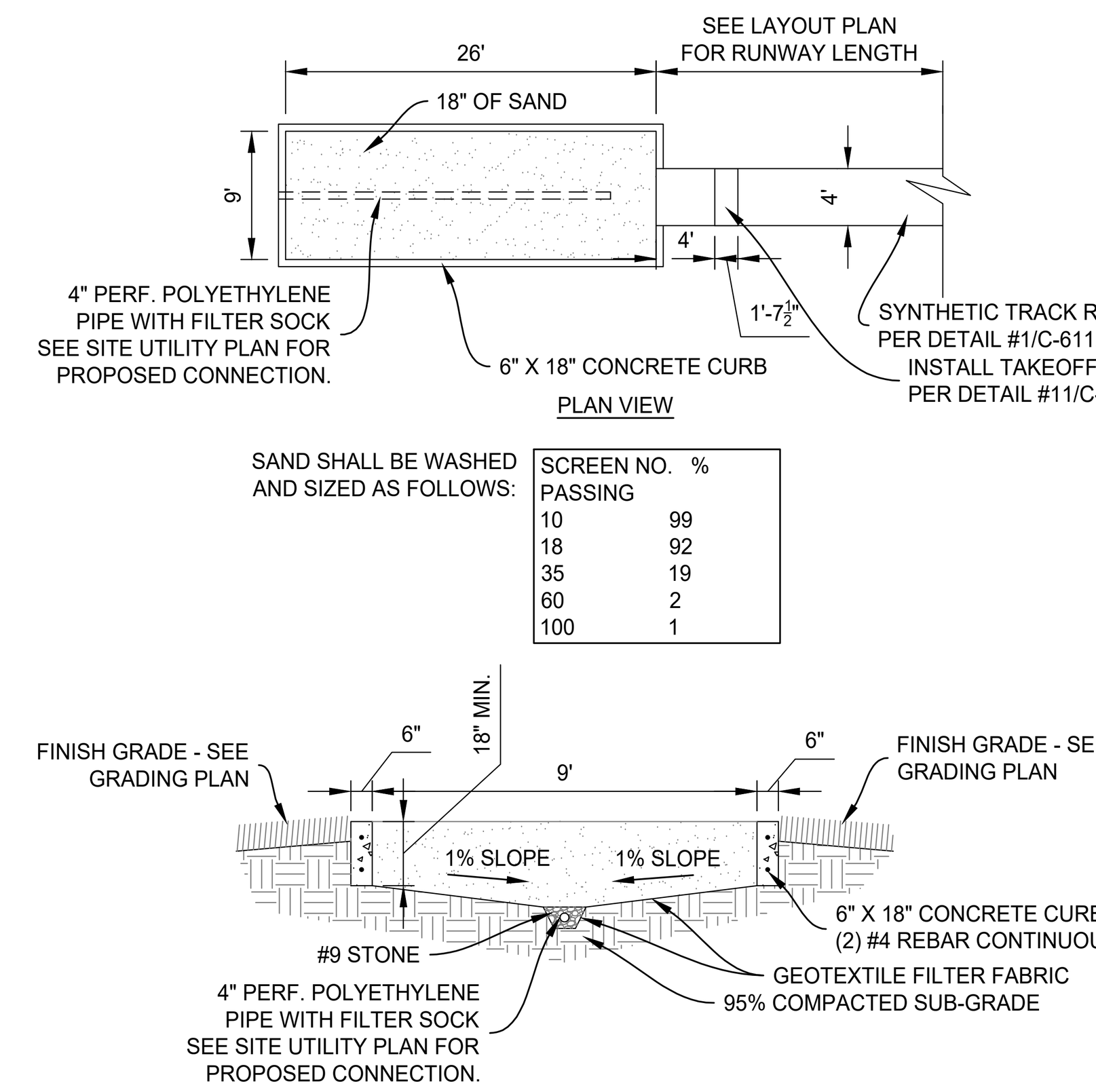


JOINTS:
PROVIDE WEAKNESS JOINTS EVERY 10 LF. PROVIDE CONTROL JOINTS AT THE END OF EVERY POUR AND EVERY 50 LF OF CURB.

12 6" Sand Pit Vertical Curb
1" = 1'-0"



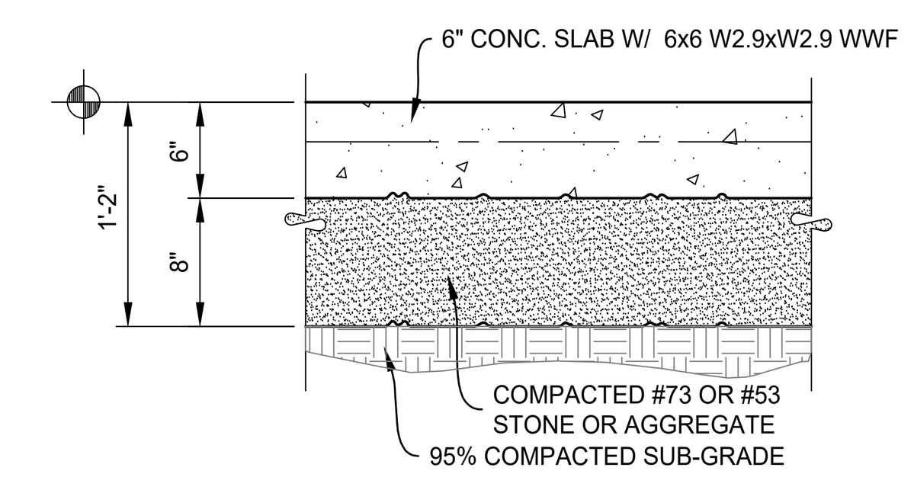
11 Take-Off Board Detail
1" = 1'-0"



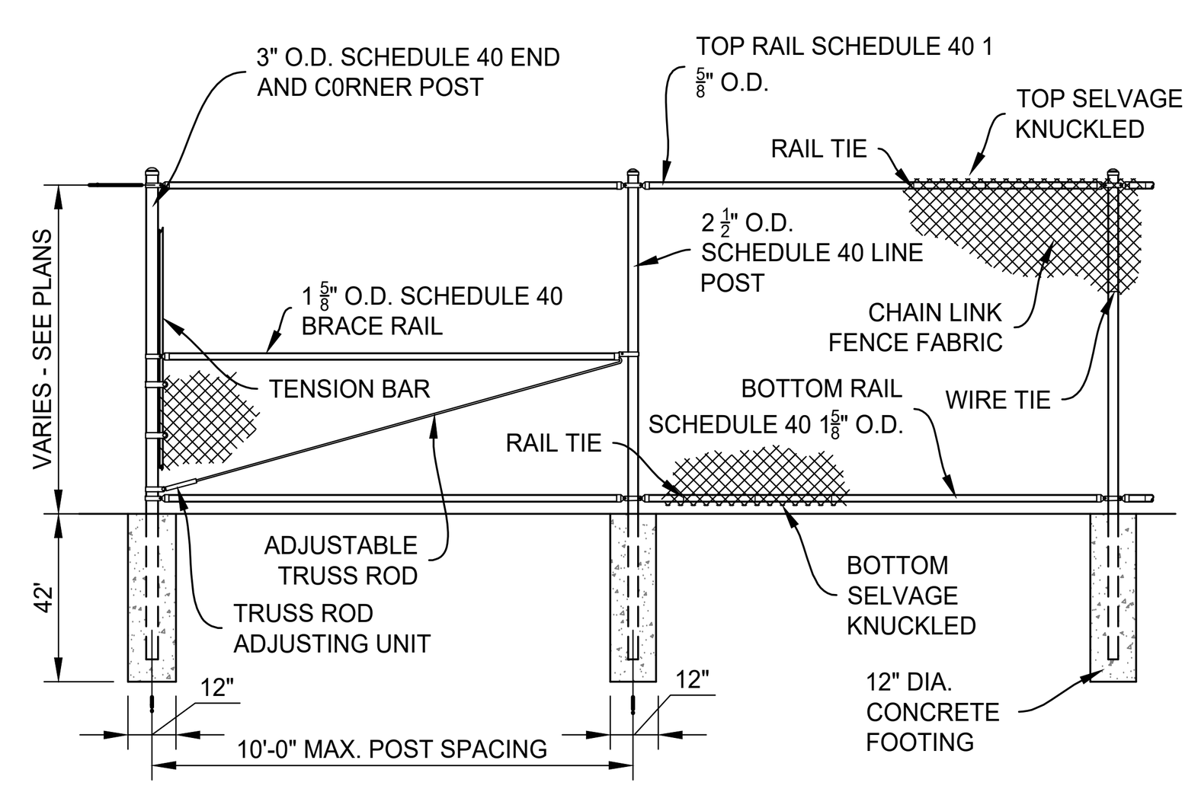
SAND SHALL BE WASHED AND SIZED AS FOLLOWS:

SCREEN NO.	% PASSING
10	99
18	92
35	19
60	2
100	1

10 Long Jump Details
1/8" = 1'-0"

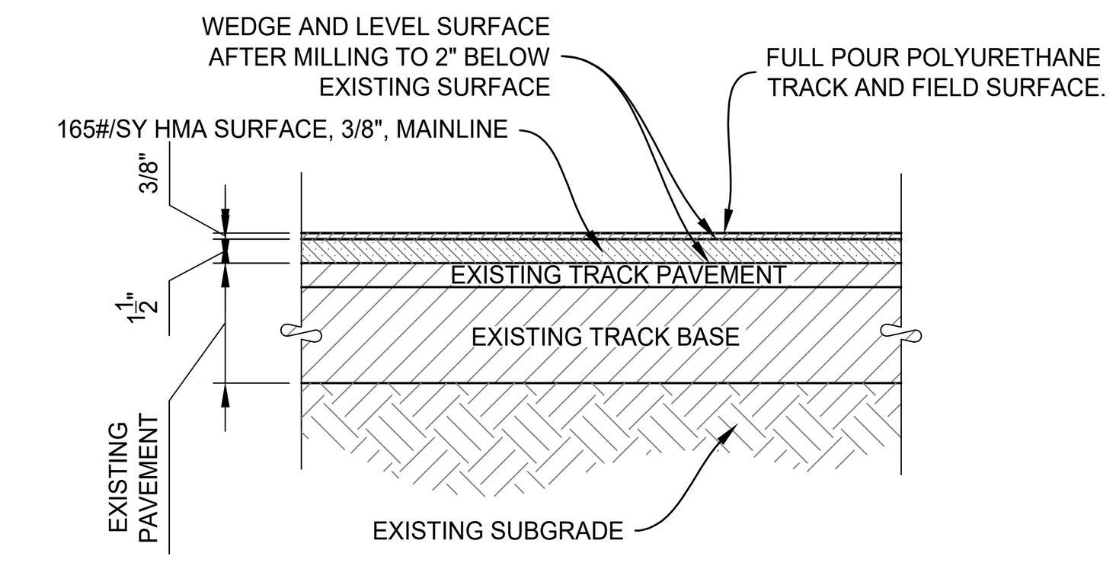


9 6" Concrete Pavement
1" = 1'-0"

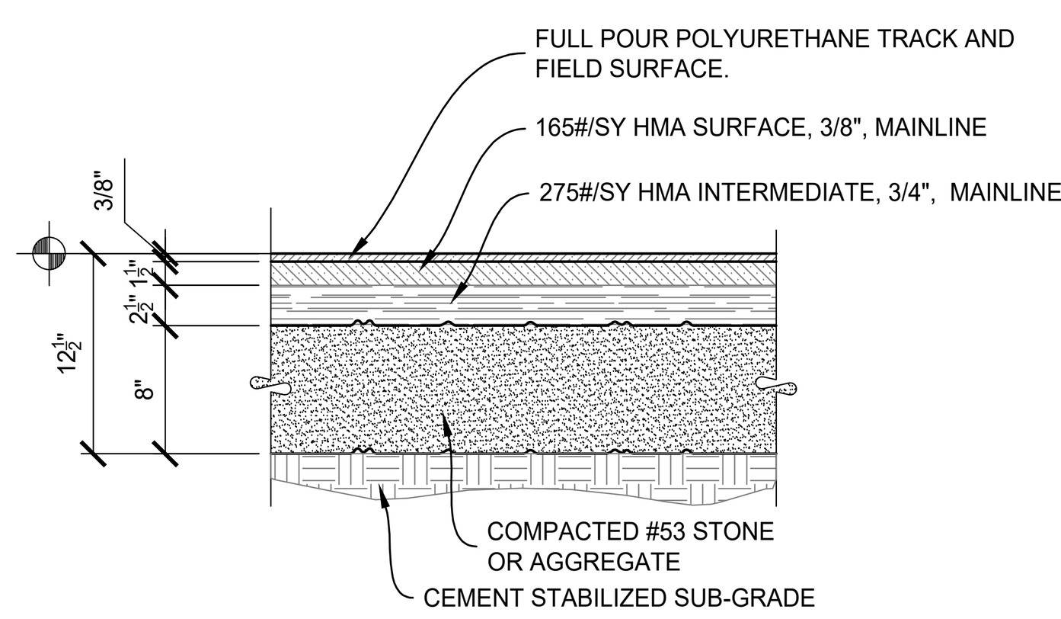


NOTE:
1. THE CHAIN LINK FENCE SHALL BE 9 GAUGE GALVANIZED CHAIN LINK FABRIC WITH BLACK VINYL COATING AND SHALL BE COMMERCIAL GRADE.
2. ALL CHAIN LINK POSTS AND ACCESSORIES SHALL BE GALVANIZED WITH BLACK VINYL COATING.
3. COORDINATE POST SIZE AT SWING AND ROLLING GATES WITH GATE MANUFACTURER.
4. PROVIDE MID-RAIL FOR CHAIN LINK FENCE OVER 8' IN HEIGHT

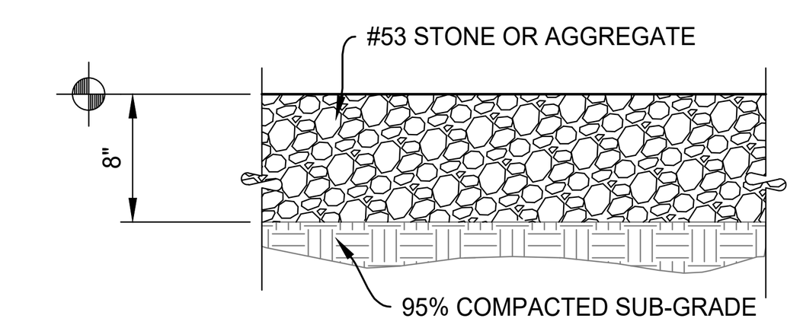
8 Chain Link Fence
None



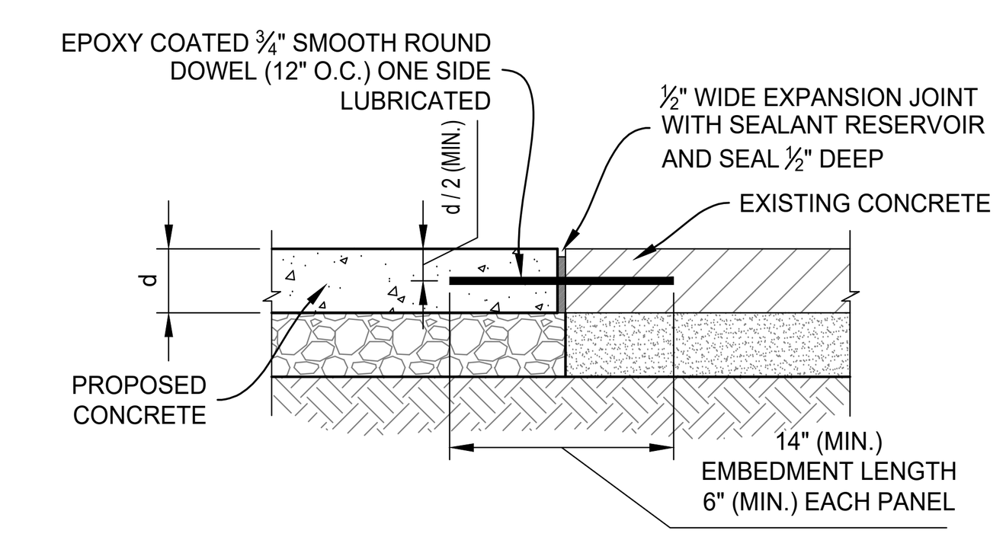
7 Synthetic Track Mill & Overlay Detail
1" = 1'-0"



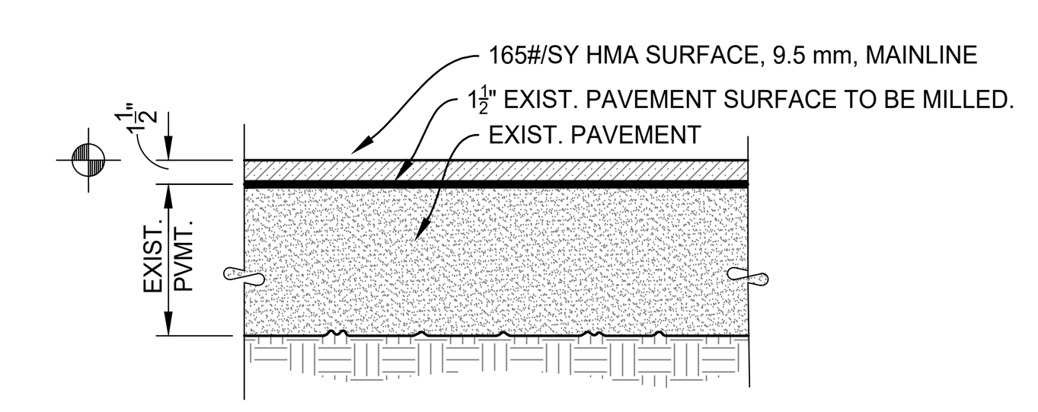
6 Synthetic Track Surface Detail
1" = 1'-0"



5 Stone Surface
1" = 1'-0"



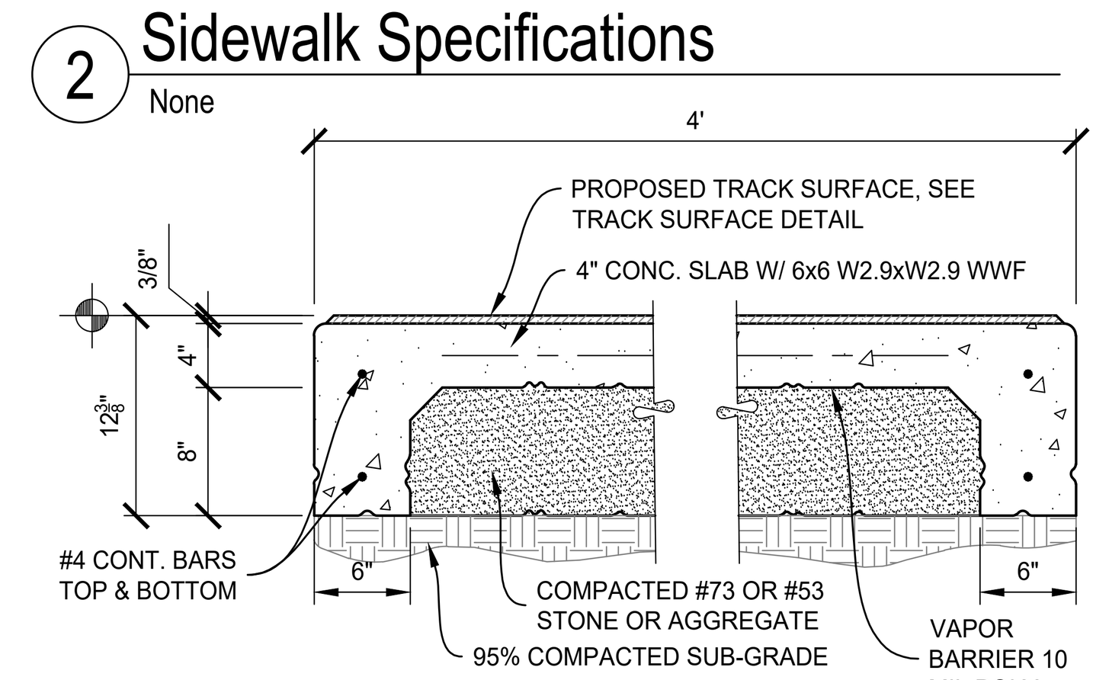
4 Dowelled Butt Joint
1" = 1'-0"



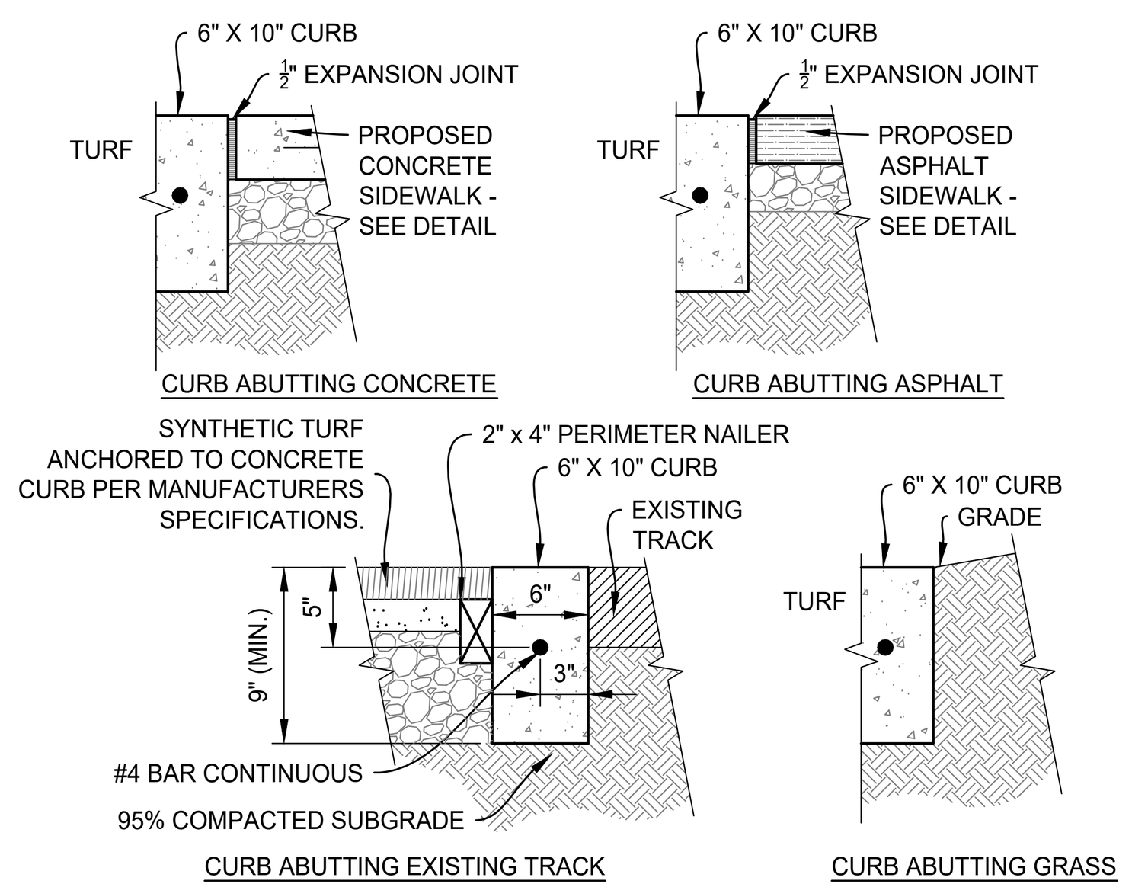
3 Existing Pavement Overlay
None

1. CEMENT TYPE: CLASS A CONCRETE, 4000PSI AT 28 DAYS.
2. DEPTH OF CONCRETE: 4" TYPICAL, 6" AT DRIVEWAY CROSSINGS.
3. EXPANSION JOINTS: 1/2" THICK PRE-FORMED EXPANSION JOINT MATERIAL WITH BACKER ROD AND SEALANT SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:
   A. WHERE NEW SIDEWALK ABUTS AN EXISTING SIDEWALK, DRIVEWAY, OR CURB.
   B. EVERY 50' IN SIDEWALKS THAT ARE 100' OR MORE IN LENGTH.
4. SCORED CONSTRUCTION JOINTS: 1/4" TO 1 1/2" DEEP AT 5' INTERVALS.
5. CROSS SLOPE: NOT TO EXCEED 2.0%, WITH THE LOWEST PART OF THE SIDEWALK ABOVE THE ADJACENT CURB.
6. SURFACE FINISH: LIGHT BROOM FINISH APPLIED FROM SIDE-TO-SIDE OF THE SIDEWALK.
7. ADA COMPLIANCE: ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
8. CONCRETE SIDEWALK SHALL BE FORMED WITH FORMS, FULL DEPTH, AND NOT EARTH FORMED.

2 Sidewalk Specifications
None

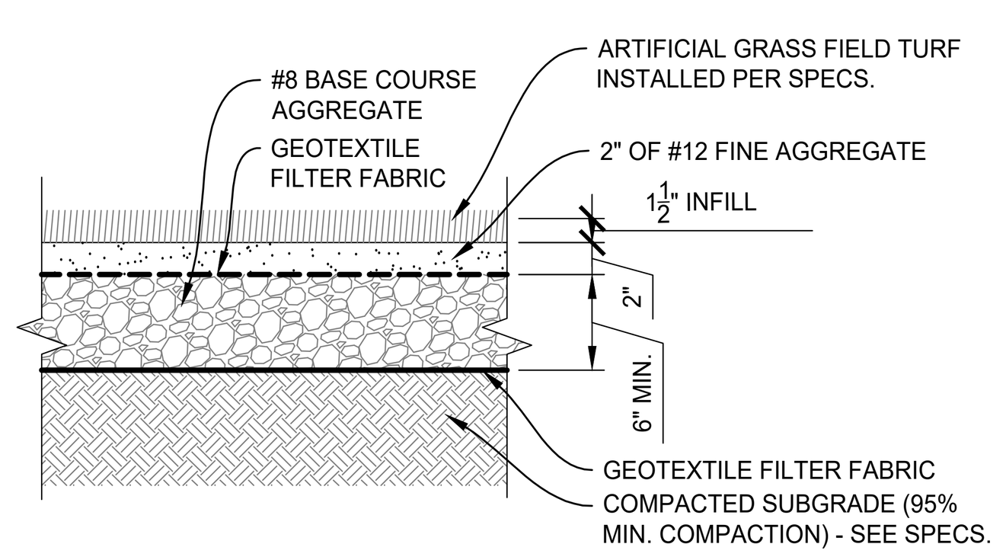


1 Track Runway Surface Detail
None

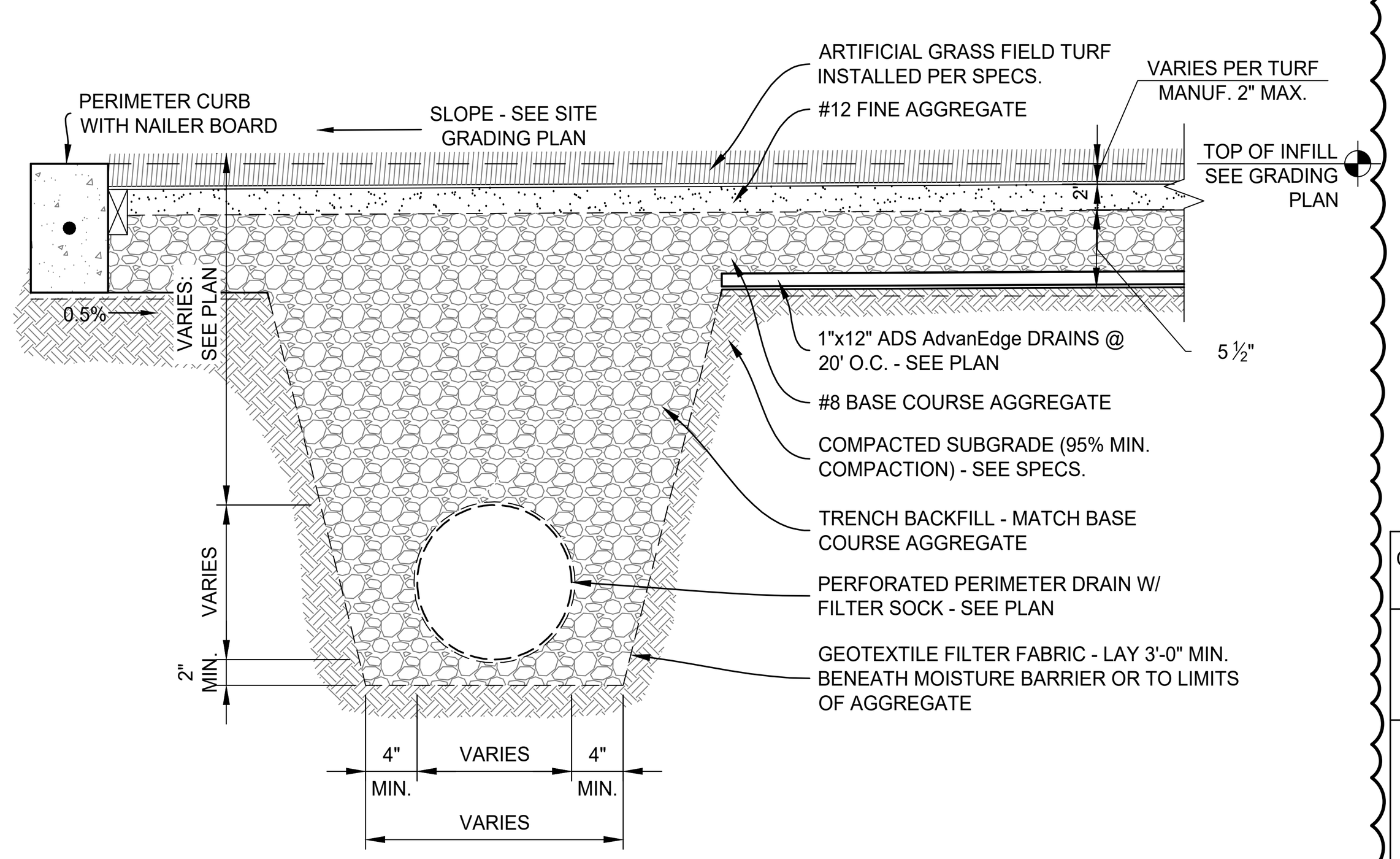


JOINTS:
PROVIDE WEAKNESS JOINTS EVERY 10 LF. PROVIDE CONTROL JOINTS AT THE END OF EVERY POUR AND EVERY 50 LF OF CURB.

23 Perimeter Curb Detail
1" = 1'-0"



22 Artificial Turf Base
1" = 1'-0"



21 Perimeter Drain Connection
None

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1	ADDENDUM #1	4/21/25

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Site Layout Details

C-611