



**ADDENDUM NO. 1  
YOUTH BASEBALL COMPLEX RENOVATION - FIELDS 11 & 12  
MANDAN PARK DISTRICT  
MANDAN, NORTH DAKOTA**

**BID DATE:** February 11, 2026

**BID TIME:** 1:00 PM CT

**LOCATION:** Mandan Park District, Mandan, North Dakota

This addendum is written for the purpose of clarification and/or modifications to the Contract Documents. Acknowledgement of Addenda shall be noted online.

The following changes and/or corrections shall be made to and become part of the project plans and specifications.

1. **Specifications Section 00 300 - Bid Form**
  - A. Remove and replace bid form. Bidder's proposal shall be submitted on the attached bid form which indicates Addendum 1 in the bid schedule footer.
  - B. Item No. 12 - Remove & Stockpile 4" Topsoil (P). (Paid at plan quantity)
  - C. Item No. 13 - Install Stockpiled Topsoil (P). (Paid at plan quantity)
  - D. Item No. 14 - Common Excavation & Embankment to Subgrade Elevation (P): Increase quantity to 1,162 CY. (Paid at plan quantity)
  - E. Item No. 15 - Imported General Fill - Fill Type 1B to Subgrade Elevation (P): Decrease quantity to 133 CY. (Paid at plan quantity)
  - F. Rename Item No. 17 - "Aggregate Surface Course - Fill Type 8B": Increase quantity to 97 TON.
  - G. Rename Item No. 18 - "Base Stone (Trenches & Infield Subgrade Slope) - Fill Type 6B (P)": Increase quantity to 881 CY. (Paid at plan quantity)
  
2. **Specifications Section 32 1800.10 - Synthetic Field Sport Surfacing**
  - A. Replace Paragraphs 1.4.J.12 as follows.
    12. Minimum Tufted Fiber/Pile Weight
      - a. Most Common Option
        - 1) 52 oz. per SY (Baseball/Softball-Grass)
        - 2) 52 oz. per SY (Baseball/Softball-Clay)
        - 3) 90 oz. per SY (Baseball/Softball-Batter's box, Catcher's Box)
      - b. Premium Option
        - 1) 60 oz. per SY (Baseball/Softball-Grass)
        - 2) 60 oz. per SY (Baseball/Softball-Clay)
        - 3) 90 oz. per SY (Baseball/Softball-Batter's box, Catcher's Box)

**3. Plan Sheets**

A. C0.0 - Cover

- i. Revised revision block.

b. C4.1 - Site Layout Plan - Field 11

- i. Added square footage to 3" aggregate surfacing.

c. C5.0 - Spot Elevation Plan - Overview

- i. Added earthwork calculations.

d. C5.1 - Spot Elevation Plan - Field 11

- i. Provided top of subgrade (bottom of base stone) elevations for infield.

e. C5.2 - Spot Elevation Plan - Field 12

- i. Provided top of subgrade (bottom of base stone) elevations for infield.

f. C6.1 - Site Details

- i. Added detail 4/C6.1 "Base Stone (Trenches & Infield Subgrade Slope).

g. C6.2 - Site Details

- i. Added Note "2. Concrete for the trench drain shall be included in the bid item Sidewalk Trench Drain." on detail 6/C6.2 - Sidewalk Trench & Grate.



Brad Krogstad, PE  
2/04/2026

**END OF ADDENDUM NO. 1**

**SECTION 00300  
BID FORM**

**PROJECT IDENTIFICATION**

YOUTH BASEBALL COMPLEX RENOVATION – FIELDS 11 & 12

**ARTICLE 1 - BID RECIPIENT**

1.01 This Bid is submitted to:

Mandan Park District  
Attn: Cole Higlin – Executive Director  
2600 46<sup>th</sup> Ave SE  
Mandan, ND 58554

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

**ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS**

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 30 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

**ARTICLE 3 – BIDDER’S REPRESENTATIONS**

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, other related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged:

<u>Addendum No.</u>	<u>Addendum Date</u>
1	2/04/2026
_____	_____
_____	_____

- B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
- C. Bidder is familiar with and is satisfied as to all Laws and Regulations that may affect cost, progress, and performance of the Work.
- D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions relating to existing surface or

subsurface structures at the Site (except Underground Facilities) that have been identified in SC-4.02 as containing reliable "technical data," and (2) reports and drawings of Hazardous Environmental Conditions, if any, at the Site that have been identified in SC-4.06 as containing reliable "technical data."

- E. Bidder has considered the information known to Bidder; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents; and (3) Bidder's safety precautions and programs.
- F. Based on the information and observations referred to in Paragraph 3.01.E above, Bidder does not consider that further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer is acceptable to Bidder.
- 1. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.

#### **ARTICLE 4 – BIDDER'S CERTIFICATION**

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and

D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:

1. “corrupt practice” means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process;
2. “fraudulent practice” means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
3. “collusive practice” means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and
4. “coercive practice” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

**ARTICLE 5 – BASIS OF BID**

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

**UNIT PRICE BID**

**BASE BID**

ITEM	SECTION	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST
1	00 700	CONTRACT BOND	1	LS	\$	\$
2	01 4000	MATERIALS TESTING	1	LS	\$	\$
3	01 5500	TRAFFIC CONTROL	1	LS	\$	\$
4	01 5713	EROSION CONTROL	1	LS	\$	\$
5	01 7113	MOBILIZATION	1	LS	\$	\$
6	01 7123.10	CONSTRUCTION STAKING	1	LS	\$	\$
7	02 4110	REMOVE CONCRETE SURFACING	215	SY	\$	\$
8	02 4110	REMOVE AGGREGATE SURFACING	80	SY	\$	\$
9	02 4110	REMOVE 6" ACP WATERMAIN	25	LF	\$	\$
10	02 4110	ABANDON 6" ACP WATERMAIN & SERVICE	268	LF	\$	\$
11	11 6833	INSTALL OWNER SUPPLIED INFIELD APPURTENANCES	14	EA	\$	\$
12	31 2200	REMOVE & STOCKPILE 4" TOPSOIL (P)	1,476	CY	\$	\$
13	31 2200	INSTALL STOCKPILED TOPSOIL (P)	805	CY	\$	\$
14	31 2316	COMMON EXCAVATION & EMBANKMENT TO SUBGRADE ELEVATION (P)	1,162	CY	\$	\$

15	31 2323	IMPORTED GENERAL FILL - FILL TYPE 1B TO SUBGRADE ELEVATION (P)	133	CY	\$	\$
16	31 2323	AGGREGATE BASE COURSE - FILL TYPE 3 (NAILER CURB & SIDEWALKS)	141	TON	\$	\$
17	31 2323	AGGREGATE SURFACE COURSE - FILL TYPE 8B	97	TON	\$	\$
18	31 2323	BASE STONE (TRENCHES & INFIELD SUBGRADE SLOPE) - FILL TYPE 6B (P)	881	CY	\$	\$
19	31 2323	BASE STONE (4" DEPTH) - FILL TYPE 6B	11,773	SY	\$	\$
20	31 2323	FINISH STONE (2" DEPTH) - FILL TYPE 6A	11,773	SY	\$	\$
21	31 3721	WOVEN GEOTEXTILE FABRIC	11,773	SY	\$	\$
22	32 1313	4" UNREINFORCED CONCRETE PAVEMENT	106	SY	\$	\$
23	32 1313	5.5" UNREINFORCED CONCRETE PAVEMENT	138	SY	\$	\$
24	33 1313	5.5" REINFORCED CONCRETE PAVEMENT	77	SY	\$	\$
25	32 1313	14" WIDE NAILER CURB	1,221	LF	\$	\$
26	32 3113	REMOVE 6' TALL 4" DIAMETER FENCE POST WITH FOUNDATION	2	EA	\$	\$
27	32 3113	SALVAGE AND REINSTALL 6' TALL CHAINLINK FABRIC, RAILS, BRACING, GATES, AND PLASTIC FENCE CROWN	1,572	LF	\$	\$
28	32 3113	ADJUST 6' TALL DRIVEN CHAINLINK LINE POST - SHIMS	12	EA	\$	\$
29	32 3113	ADJUST 6' TALL DRIVEN CHAINLINK LINE POST - SALVAGE & RESET OR WELDED EXTENSIONS	96	EA	\$	\$
30	32 3113	ADJUST 6' TALL GALVANIZED CHAINLINK FENCE POST WITH FOUNDATION - SHIMS	8	EA	\$	\$
31	32 3113	ADJUST 6' TALL GALVANIZED CHAINLINK FENCE POST WITH FOUNDATION - WELDED EXTENSIONS	34	EA	\$	\$
32	32 3113	6' TALL 4" DAMETER GALVANIZED CHAINLINK FENCE POST WITH FOUNDATION	2	EA	\$	\$
33	32 3113	20' TALL 4" DIAMETER CHAINLINK GALVANIZED FENCE POST WITH FOUNDATION & FENCE REBRACING	2	EA	\$	\$
34	32 9219	SEEDING IRRIGATED MIX (NON-FIELD)	0.99	ACRE	\$	\$
35	32 9219	HYDROMULCH	0.99	ACRE	\$	\$
36	32 9223	SODDING	1,504	SY	\$	\$
37	32 8243	MODIFY IRRIGATION SYSTEM	1	LS	\$	\$

38	32 8423	NEW IRRIGATION SYSTEM	1	LS	\$	\$
39	33 1416	CONNECTION TO EXISTING WATERMAIN	2	EA	\$	\$
40	33 1416	2" WATER SERVICE	147	LF	\$	\$
41	33 1416	3/4" WATER SERVICE	8	LF	\$	\$
42	33 1416	6" WATERMAIN	172	LF	\$	\$
43	33 1416	6" GATE VALVE & BOX	1	EA	\$	\$
44	33 1416	3/4" CURB STOP & BOX	1	EA	\$	\$
45	33 1416	DRAIN DOWN SUMP	1	EA	\$	\$
46	33 4211	MODIFY INLINE DRAIN & ADJUST BACKSTOP FENCE	1	EA	\$	\$
47	33 4211	MODIFY DRAIN BASIN & ADJUST BACKSTOP FENCE	1	EA	\$	\$
48	33 4100	8" PERFORATED PIPE	1,334	LF	\$	\$
49	33 4100	10" PERFORATED PIPE	398	LF	\$	\$
50	33 4100	1.5" X 12" FLAT PANEL SYSTEM	3,210	LF	\$	\$
51	33 4211	4" HDPE STORM SEWER	112	LF	\$	\$
52	33 4211	12" STORM SEWER	75	LF	\$	\$
53	33 4211	SIDEWALK TRENCH DRAIN	10	LF	\$	\$
<b>TOTAL SCHEDULE 1: BASE BID</b>						\$

<b>ALTERNATE A: TURF SYSTEM – ASTROTURF ROOTZONE DIAMOND RBI</b>						
ITEM	SECTION	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST
A-1	32 1800.10	AstroTurf Rootzone Diamond RBI (Premium)	105,960	SF	\$	\$
<b>* TOTAL: ALTERNATE A: TURF SYSTEM – ASTROTURF ROOTZONE DIAMOND RBI</b>						\$

<b>ALTERNATE B: TURF SYSTEM – ASTROTURF ROOTZONE DIAMOND OPS</b>						
ITEM	SECTION	DESCRIPTION	QNTY	UNIT	UNIT PRICE	TOTAL COST
B-1	32 1800.10	AstroTurf Rootzone Diamond OPS (Most common)	105,960	SF	\$	\$
<b>* TOTAL ALTERNATE B: TURF SYSTEM– ASTROTURF ROOTZONE DIAMOND OPS</b>						\$

\*Owner will select one option for turf systems listed above.

<b>SUMMARY: BASE BID AND ALTERNATES</b>	
Total: Base Bid + Alternate A	\$
Total: Base Bid + Alternate B	\$

(P) Denotes item will be paid at plan quantity.

Unit Prices have been computed in accordance with Paragraph 11.03.B of the General Conditions.

Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

**ARTICLE 6 – TIME OF COMPLETION**

- 6.01 Bidder accepts that Material deliveries and equipment mobilization may begin on or after July 13th, 2026 and Work on Fields 11 & 12 may begin on or after July 20th, 2026.
- 6.02 Bidder agrees seeding, sodding, and irrigation will be complete on or before **October 16, 2026**, and all work will be completed and ready for final payment in accordance with Paragraph 14.07 of the General Conditions on or before **November 25, 2026**.
- 6.03 Bidder accepts the provisions of the Agreement as to liquidated damages.

**ARTICLE 7 – ATTACHMENTS TO THIS BID**

- 7.01 The following documents are submitted with and made a condition of this Bid:
  - A. Required Bid security in the form of 5% Bid Bond (in separate envelope);
  - B. Copy of contractor’s license or certificate of renewal (in separate envelope);

**ARTICLE 8 – DEFINED TERMS**

- 8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

**ARTICLE 9 – BID SUBMITTAL**

9.01 This Bid is submitted by:

If Bidder is:

An Individual

Name (typed or printed): \_\_\_\_\_

By: \_\_\_\_\_  
(Individual’s signature)

Doing business as: \_\_\_\_\_

A Partnership

Partnership Name: \_\_\_\_\_

By: \_\_\_\_\_  
(Signature of general partner -- attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

A Corporation

Corporation Name: \_\_\_\_\_ (SEAL)

State of Incorporation: \_\_\_\_\_

Type (General Business, Professional, Service, Limited Liability): \_\_\_\_\_

By: \_\_\_\_\_  
(Signature -- attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

Title: \_\_\_\_\_  
(CORPORATE SEAL)

Attest \_\_\_\_\_

Date of Qualification to do business in [State where Project is located] is  
\_\_\_\_ / \_\_\_\_ / \_\_\_\_.

A Joint Venture

Name of Joint Venture: \_\_\_\_\_

First Joint Venturer Name: \_\_\_\_\_ (SEAL)

By: \_\_\_\_\_  
(Signature of first joint venture partner -- attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

Title: \_\_\_\_\_

Second Joint Venturer Name: \_\_\_\_\_ (SEAL)

By: \_\_\_\_\_  
(Signature of second joint venture partner -- attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

Title: \_\_\_\_\_

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.)

Bidder's Business Address \_\_\_\_\_

\_\_\_\_\_

Phone No. \_\_\_\_\_ Fax No. \_\_\_\_\_

E-mail \_\_\_\_\_

SUBMITTED on \_\_\_\_\_, 20\_\_\_\_.

State Contractor License No. \_\_\_\_\_.

**SECTION 32 1800.10**  
**SYNTHETIC FIELD SPORT SURFACING**

**PART 1 — GENERAL**

**1.1 SUMMARY**

- A. This Section Includes all labor, materials and services required for the Artificial Turf Contractor (ATC) to install the proposed outdoor artificial turf surfacing system with resilient infill, including game lines and event markings, as per the drawings and specifications herein and as per the recommendations for installation of the proposed artificial turf product issued by the Artificial Turf Manufacturer (ATM).
- B. For Synthetic Turf System Alternates:
  - 1. Owner will select one of the synthetic turf systems indicated on the Bid Form.
  - 2. Selection of the synthetic turf system will be made in the interest of the Project and may not reflect the lowest cost products.
  - 3. The Owner will select one synthetic turf system for the entire project.

**1.2 DEFINITIONS**

- A. Project Coordinator: Described in Section 01 3000 - Administrative Requirements
- B. Owner's Representatives: Described in Section 01 3000 - Administrative Requirements

**1.3 REFERENCES**

- A. ASTM D789: Standard Test Methods for Determination of Solution Viscosities of Polyamide (PA); 2015.
- B. ASTM D1335: Standard Test Method for Tuft Bind of Pile Yarn Floor Coverings; 2012.
- C. ASTM D1577: Standard Test Methods for Linear Density of Textile Fibers; 2007 (Reapproved 2012).
- D. ASTM D1907/D1907M: Standard Test Method for Linear Density of Yarn (Yarn Number) by the Skein Method; 2012.
- E. ASTM D3218: Standard Specification for Polyolefin Monofilaments; 2007 (Reapproved 2012).
- F. ASTM D5034: Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test); 2009 (Reapproved 2013).
- G. ASTM D5823: Standard Test method for Tuft height of Pile Floor Coverings; 2013.
- H. ASTM D5848: Standard Test Method for Mass Per Unit Area of Pile Yarn Floor Coverings; 2010.
- I. ASTM F355: Standard Test Method for Impact Attenuation of Playing Surface Systems and Materials; 2010.
- J. ASTM F1551: Standard Test Methods for Comprehensive Characterization of Synthetic Turf Playing Surfaces and Materials; 2009.
- K. ASTM F1936: Standard Specification for Impact Attenuation of Turf Playing Systems as Measured in the Field; 2010 (Reapproved 2015).
- L. ASTM D418 – Standard Test Method for Testing Pile Yarn Floor Covering Construction

- M. ASTM D1682 – Standard Method of Test for Breaking Load and Elongation of Textile Fabrics
- N. ASTM D1338 – Standard Test Method for Tuft Bind of Pile Yarn Floor Coverings
- O. ASTM F1015 – Standard Test Method for Relative Abrasiveness of Synthetic Turf Playing Surfaces
- P. ASTM D2859 – Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials
- Q. ASTM D1557 – Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort.
- R. Governing Sport Authorities
  - 1. Installation shall comply with rules and/or regulations set forth by the International Association of Athletic Federations (IAFF), the National Collegiate Athletic Association (NCAA), and the National Federation of State High School Associations (NFHS). Where discrepancies are noted between these various governing bodies, the rules of the NCAA shall be enforced, except for football field hash marks which should be deferred to the NFHS.

#### **1.4 PERFORMANCE CHARACTERISTICS**

- A. The outdoor artificial (synthetic) turf surfacing system shall be designed based on the performance characteristics of natural grass.
- B. The artificial turf fibers shall be slit film for baseball/softball fields, or a blend of 50% monofilament and 50% parallel slit film for either.
- C. The artificial turf surfacing system shall be designed and constructed to provide a tight, secure, and hazard-free athletic playing surface suitable for the purpose intended (outdoor baseball).
- D. The artificial turf surfacing system shall be designed and constructed to maximize dimensional stability, to resist damage through normal wear and tear from its designated use, and to minimize degradation through exposure to the local environment.
- E. The installed artificial turf surfacing system, including all components that are employed and become a permanent part of the system, shall be resistant to weather, insects, rot, mildew, fungus, and resist ultraviolet degradation.
- F. The artificial turf surfacing system shall be easily and quickly cleaned by washing and sweeping as necessary and shall not be damaged by cleaning methods as recommended by the Artificial Turf Manufacturer.
- G. The infill shall consist of pure, rounded silica sand and SBR crumb rubber. Alternative infill systems proposed by the ATM that conform to the project requirements will be considered.
- H. The artificial turf surfacing system shall be constructed with removable inserts at the Left Batter's Box, Right Batter's Box, Catcher's Box, and First Base. Replacement removable inserts shall be provided at the quantities indicated in this Section.
- I. The artificial turf surfacing system shall remain usable and playable over the warranty period.
- J. The installed artificial turf surfacing system shall satisfy the following minimum specifications
  - 1. Surface Flatness: Shall not vary from a true plane by more than 1/4 inch under a 12' straightedge at any position and in any direction.

2. Permeability: Minimum 25 inch/hour at any location.
3. Minimum Finished Pile Height:
  - a. 1.125 inches (Baseball/Softball Infield)
  - b. 1.50 inches (Baseball/Softball Outfield)
4. Minimum Denier - 10,000 for Monofilament, 9,000 for Slit Film, and 5,000 for Slit Film when being used in hybrid Monofilament/Slit Film systems
5. Minimum Primary Backing - 6.5 oz. per SY
6. Minimum Secondary Elastomeric Coating - 14 oz. per SY
7. Minimum Roll Width - 15'
8. Minimum Tuft Bind Strength - 8 lbs./force
9. Minimum Grab Tear Strength (length) - 200 lbs/force
10. Minimum Breaking Load - 16 lbs Force for Monofilament, 12 lbs for Slit Film, and 8 lbs for Slit Film when being used in hybrid Monofilament/Slit Film systems
11. Minimum Elongation to Break - 30%
12. Minimum Tufted Fiber/Pile Weight
  - a. Most Common Option
    - 1) 52 oz. per SY (Baseball/Softball-Grass)
    - 2) 52 oz. per SY (Baseball/Softball-Clay)
    - 3) 90 oz. per SY (Baseball/Softball-Batter's box, Catcher's Box)
  - b. Premium Option
    - 1) 60 oz. per SY (Baseball/Softball-Grass)
    - 2) 60 oz. per SY (Baseball/Softball-Clay)
    - 3) 90 oz. per SY (Baseball/Softball-Batter's box, Catcher's Box)
13. Minimum Fiber Thickness:
  - a. 100 Microns (slit)
  - b. 235 Microns (mono)
14. Must pass Pill Burn/Flammability Test.
15. All seams shall be sewn except for products with rootzone/thatch.
16. Tufted construction.

#### **1.5 SUBMITTAL REQUIREMENTS**

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Owner is requesting proposals from Artificial Turf Manufacturer's (ATMs) & Artificial Turf Contractors (ATCs) for the supply and installation of Synthetic Field Surfacing for renovation of baseball fields. The layout and configuration of the field shall be as indicated in the construction documents. Understanding that each ATM brings specific product characteristics and design criteria, the Owner is requesting that each ATM provide a comprehensive package of product data, references, and suggested products.
- C. Shop Drawings:
  1. Prior to the production of the artificial turf and in-fill material, the ATC shall submit three (3) samples of the artificial turf system in its final constructed form in an easily transportable case with a removable cover, 8" x 8" in size. The Owner's independent laboratory may perform laboratory tests. The test results of these samples shall meet or exceed these specifications and the specifications that the ATC has supplied for the proposed product within the ATC's tender submission. The Owner shall approve these samples prior to the production of the artificial turf and in-fill material. The cost for the initial testing will be at the Owner's expense. The cost of any subsequent testing done as a result of the initial samples tested failing to meet these specifications and the specifications that the ATC has supplied for the proposed product within

- the ATC's tender submission will be at the ATC's expense. The Owner/Project Coordinator shall approve these samples prior to the production of the artificial turf and in-fill material.
2. Shop drawings shall be prepared at the scale of the construction documents and contain all pertinent information regarding installation. Shop drawings in PDF format shall be submitted to the Owner's Representative for review and approval prior to the manufacture and shipment of the materials to the jobsite. Submit drawings for:
    - a. Field Layout.
    - b. Roll / Seaming / Removable insert plan, including optional contrasting turf colors / rolls if selected. No seams shall be located in high traffic areas.
    - c. Installation details; edge anchoring detail, goal post foundation detail, foul post foundation, base inserts, fence inserts, other inserts, and pylons as applicable.
    - d. Composite striping plan, layouts and details showing any field lines, markings and boundaries, and field logos per project drawings. Detail colors and note which markings are tufted-in fabric versus inlaid fabric.
- D. Prior to installation of artificial turf system:
1. The following information shall be submitted by the ATC upon completion of the construction of the base, prior to the commencement of the installation of the artificial turf system:
    - a. Current Material Safety Data Sheets (MSDS) on all chemicals that are employed for the installation of the proposed synthetic surfacing system as published by the ATM.
    - b. The ATC shall provide an experienced and qualified technician to visually inspect the completed base and provide to the Owner/Project Coordinator a Letter of Base Acceptance stating that the ATC found no evidence that the completed base does not meet the project specifications and/or the rules of the sport and/or the minimum requirements for installation of the artificial turf system as defined by the ATM's current published literature. Any evident deficiency that might limit the installation of the proposed artificial turf system, or affect the quality of the installation shall be immediately reported to the Owner/Project Coordinator.
      - 1) General Contractor shall work with ATC to verify that base stone is acceptable prior to installation of synthetic turf.
    - c. A letter and specification sheet certifying that the products of this section meet or exceed specified requirements.
    - d. Certified copies of independent (third-party) laboratory reports on ASTM tests as follows:
      - 1) Face Width, Pile Weight, & Total Fabric Weight, ASTM D418 or D5848
      - 2) Pile Height, ASTM D5823
      - 3) Primary & Secondary Backing Weights, ASTM D418 or D5848
      - 4) Tuft Bind, ASTM D1335
      - 5) Grab Tear Strength, ASTM D1682 or D5034
      - 6) Verification that product meets Gmax minimums for ASTM F1936 & F355 for life of installation.
      - 7) Pill Flammability, ASTM D2859
      - 8) Water Permeability, ASTM F1551

- E. Post-Construction:
  - 1. The following information shall be submitted by the ATC upon completion of the installation of the artificial turf system:
    - a. Three (3) copies and one PDF file of the maintenance manual which will include all necessary instructions for proper care and preventative maintenance of the synthetic turf and infill system.
    - b. One (1) copy of the third party warranty covering products and installation per Part 1.8 of this Section.
    - c. Written verification of a suitable training session for the Owner's maintenance staff on how to maintain the completed installation.
    - d. Test Results: Test certifications issued by an independent testing agency that the synthetic surface meets with the requirements of the ASTM tests noted herein are to be submitted.

**1.6 DELIVERY, STORAGE AND HANDLING**

- A. Deliver and store products in the original, manufacturer's packaging with the labels intact.
- B. Store products in a location and position that protects them from damage from any cause. The environmental condition in the storage area must be such that no physical changes occur in the products.
- C. Handle products in a manner that protects them from damage from any cause.

**1.7 ENVIRONMENTAL AND PROJECT CONDITIONS**

- A. Installation is to commence only if the base, inclusive of the edging system and of all pieces of in-ground sport equipment items where artificial turf material must be installed up to or on top, is completed and meets the specifications of the various suppliers and manufacturers, the project specifications and the rules of the sport, and that has been accepted by the ATC.
- B. Installation is to commence and continue only if the environmental and site conditions are in accordance with these specifications and with the ATM's current recommendations for installation of the selected product.
- C. Installation shall not commence and continue if adjacent or concurrent construction operations generate dust, airborne abrasives, or any other by-product that, in the opinion of the ATC, would be harmful to the artificial turf material.
- D. Installation is to commence and continue only if adequate procedures have been enforced to prevent contamination of the area to be surfaced by work of other craftsmen and trades, by site trespassing, by maintenance activity around the site, by dirty rain water, etc.
- E. Installation is to commence and continue only if adequate procedures have been enforced to secure the area to be surfaced from unwanted pedestrian and vehicular access.
- F. Installation is to commence and continue only weather is dry. Unless otherwise approved or recommended by ATM, the minimum temperature at any point in a 24 hr cycle shall be of 40°F. The temperature during actual installation shall be at a minimum of 40°F. If in the opinion of the ATC weather and climatic conditions are having or will have an adverse effect on installation, work shall be delayed until the adverse condition has passed.

**1.8 WARRANTY**

- A. The ATM shall provide a Third-Party Insured Warranty covering products and installation that shall endure for eight (8) years from the date of Owner's approval

of the installation of the artificial turf system or from the date of Owner's occupancy.

- B. The warranty shall state coverage of: workmanship, defects in material, excessive color change, non-uniform color change, excessive loss of porosity, excessive wear, ability to meet the ASTM F355 procedure A requirements over the warranty period, and any other feature that is deemed to not be ordinary wear and tear on artificial turf playing field surfaces as specified in these specifications and in the ATM's current standard product literature and specifications.
- C. The warranty shall be fully insured by a Best Rated A Insurance company. In addition, the warranty shall:
  - 1. Be completely pre-paid for the entire duration of the Third Party warranty.
  - 2. Be non-prorated.
  - 3. Have no usage-limited hours of use or areas of the field which are not covered or color limitations which void standard or insured warranty.
  - 4. Provide coverage regardless of corporate status of original Artificial Turf Manufacturer.
  - 5. Provide coverage directly to Owner (warranty holder).
  - 6. List Owner as well as Artificial Turf Manufacturer as insured.
  - 7. Provide coverage for replacement of entire field based on failure during warranty period.
  - 8. Be non-cancelable by Artificial Turf Manufacturer or insurance provider during policy period.
  - 9. Contain no periods of self-insurance.
  - 10. Warranty shall be for full replacement of any damaged product within the warranty period. Warranty shall be comprehensive and sufficient to replace entire field with a minimum claim limit of \$500,000.
  - 11. Contain no deductible.
  - 12. Guarantee the availability of replacement materials for the full warranty period.
  - 13. Be governed by the laws of the state in which the project is located.
  - 14. State that any testing required to verify conformance and any subsequent remedial action be entirely paid by the ATM at no cost to the Owner.
  - 15. Supply Warranty Insurance Certificate with complete information on contacting the Insurance Carrier should a claim need to be made. Warranty insurance policy shall have the Owner listed as insured.
  - 16. Warranty shall become effective from the date of Final Review and Acceptance.

## **PART 2 - PRODUCTS**

### **2.1 ACCEPTABLE PRODUCTS**

- A. ASTROTURF
  - 1. Astroturf - Rootzone Diamond RBI
  - 2. Astroturf - Rootzone Diamond OPS
  - 3. Contact: 800-723-TURF (8873)

### **2.2 MATERIALS**

- A. CARPET
  - 1. The minimum pile height exposed above the infill shall be as required under Part 1.4.
- B. TUFTED LINE MATERIAL
  - 1. All line material to be identical dimensionally and in composition, except for fiber color, to that used for the main playing field.

- C. RESILIENT INFILL MATERIAL
  - 1. Shop submittals shall include detailed specifications in their submittal packet for each type of recommended resilient infill to include particle size, density, weight per SF, and percent of sand-to-rubber ratio.
  - 2. 100% New Fill Only. No placement of infill from salvaged turf projects permitted.
- D. NON-RESILIENT INFILL MATERIAL
  - 1. Shop submittals shall include detailed specifications for each type of recommended non-resilient infill to include particle size/composition, density, weight per SF, and percent of sand-to-rubber ratio.
- E. SEAMING TAPE
  - 1. ATC shall use approved seaming tape according to ATM recommendations.
- F. ADHESIVES
  - 1. ATC shall use approved adhesives according to ATM recommendations.
- G. SEWING MATERIAL
  - 1. ATC shall use approved sewing material according to ATM recommendations.
- H. EDGING
  - 1. All fasteners that are to be employed in fastening the edges of the turf must be suitable for use with the specific nailing strip and be manufactured as to prevent corrosion while in use over the warranty period. Perimeter fastening blocking is provided by others.
- I. NAILER BOARD
  - 1. All Nailer Boards shall be 2"x4" or 4"x4" pressure treated timber rated for continuous ground contact or recycled HDPE (composite) specifically manufactured for use as synthetic turf nailer board edging.
  - 2. 2"x4" Nailer Boards shall be secured to concrete with 5/16"x4" Perma-Grip Nails.
- J. CONCRETE and REINFORCEMENT
  - 1. Install in accordance with Section 32 1313 Concrete Paving.

### **PART 3 - EXECUTION**

#### **3.1 GENERAL**

- A. The installation of the artificial turf system is to comply with the shop drawings reviewed and accepted by the Owner/Project Coordinator, with the specifications herein and with the ATM's specifications and instructions.

#### **3.2 BASE ACCEPTANCE**

- A. It is the responsibility of the Contractor and / or ATC to make sure that the base, inclusive of the edging system and of all pieces of in-ground sport equipment where artificial turf material must be installed up to or on top, is completed and meets the specifications of the various suppliers and manufacturers, the project specifications and the rules of the sport. Contractor shall work with ATC to verify that base stone is acceptable prior to installation of synthetic turf.
- B. The ATC shall provide technical services to review the design documents, as-built information and test results supplied by the Owner/Project Coordinator and to inspect the base prior to the commencement of the installation of the artificial turf system.
- C. The ATC shall report to the Owner/Project Coordinator any evidence that would prevent the ATC from accepting the base.

- D. The ATC shall expect that any and all defects of the base be remedied prior to the commencement of the installation.
- E. In the absence of any evidence proving the opposite, the ATC shall assume that the base meets the project specifications and the rules of the sport and it is therefore suitable for installation of the artificial turf system.
- F. ATC shall provide a Letter of Base Acceptance prior to installation of synthetic turf.

### **3.3 INSTALLATION**

#### **A. TURF PLACEMENT**

1. All rolls must be straight and true when laid out. Each roll must form a common straight and true edge with the adjacent roll. No fitted pieces will be permitted. Cross seams in the game area are not permitted except for lines and event marking.
2. Rolls in the playing field must be rolled out in the same direction unless dual texture in final product is desired.
3. Rolls to be unrolled and allowed to relax.
4. Cut and adjust rolls prior to seaming. All trim cuts shall be neat and clean.
5. The method for the bonding of the seams must provide for a permanent, hazard free artificial turf playing field. The seams are to be secure and capable of remaining secure for the duration of the warranty period.
6. Sewing material shall be supplied or approved or recommended by the ATM.
7. If allowed, Seaming tape shall be supplied or approved or recommended by the ATM.
8. If allowed, Adhesives shall be supplied or approved or recommended by the ATM.

#### **B. LINES AND EVENT MARKINGS & LETTERING**

1. All lines and event markings shall be positioned as prescribed by the contract document drawings and by the rules of the sport(s).
2. All lines and event markings shall be straight and true without distortion. Curved lines shall follow a consistent radius with no distortions. No lines shall vary from the specified layout by more than 1/2 inch over the total length of the line, and by more than 1/4 inch over a 5 foot length.
3. All inlaid lines shall be shaved and glued or backed by seaming tape. The line-to-turf joints shall form a straight and level seam without distortions or trip hazards. The pile direction of the lines shall match the pile direction of the field whenever possible.
4. Seaming tape shall be supplied or approved or recommended by the ATM.
5. Adhesive shall be supplied or approved or recommended by the ATM. Mix adhesive in accordance with the manufacturer's instructions.
6. Game line markings shall be inlaid into the artificial turf during the manufacturing process and/or cut and glued-in on site during the installation of the artificial turf.
7. Where indicated on the drawings and specifications herein, the lines and event markings shall deviate from the specifications produced by the relevant governing bodies.

#### **C. INFILL PLACEMENT**

1. The in-fill material shall be placed in sufficient quantities as to ensure that the depth of the infill material remains at the level provided in the ATM's specifications over the warranty period.
2. The in-fill material shall be placed as to avoid burying the fiber.

3. The in-fill shall not vary from a true plane by more than 1/4 inch beneath a 12 foot straightedge at any position and in any direction.
- D. FASTENING / NAILING
1. Start fastening the fabric to the fastening strip not before 75% completion of the placement of the infill material.
  2. The fabric must be fastened to the fastening strip provided at points no greater than 6 inches apart.

### 3.4 FIELD QUALITY CONTROL

- A. If at any point prior to, during, or upon completion of installation of the artificial turf if the Owner has any question or doubt about the quality of the material or installation, the Owner's independent laboratory might perform field or laboratory tests. Any material failing to meet or exceed these specifications or the specifications that the ATC has supplied for the proposed product within the ATC's tender submission will be repaired and/or replaced as necessary at the ATC's expense. The cost for the initial testing will be at the Owner's expense. The cost of any subsequent testing done as a result of the initial samples tested failing to meet these specifications and the specifications that the ATC has supplied for the proposed product within the ATC's tender submission will be at the ATC's expense.

### 3.5 PROTECTION

- A. The ATC is responsible for the protection of all existing facilities from damage as a result of the installation work. Any damage must be repaired promptly and to the original condition of the facility prior to the damage.
- B. The ATC is responsible for the protection of the installed material from damage as a result of the installation.
- C. The ATC is responsible for the protection of the installation area and of the installed material from damage as a result of work of other craftsmen and trades, of site trespassing, of maintenance activity around the site, of dirty rain water, etc.

### 3.6 REPAIR MATERIAL

- A. Prior to issuance of Final Review and Acceptance, supply the Owner quantities of materials sufficient to repair:
1. Removable inserts and installation supplies for each location:
    - a. Left Batter's Box (4 per field)
    - b. Right Batter's Box (4 per field)
    - c. Catcher's Box (4 per field)
    - d. First Base (2 per field)
  2. All repair materials, except for removable inserts, shall be provided on a 15-foot wide roll as manufactured in the factory. Scraps and irregular shapes are not acceptable
  3. Artificial Turf carpet materials (per field):
    - a. Infield: 450 square feet of brown (15'x30') (Baseball/Softball) and 300 square feet of green (15'x20') (if alternating grass colors - 150 square feet of each green).
    - b. Outfield: 450 square feet of green (15'x30') (if alternating grass colors - 150 square feet of each green).
  4. Artificial Turf repair accessories include, but not limited to (per field):
    - a. Seaming Tape
    - b. Seaming Epoxy
    - c. Turf Fabric
    - d. Insert Velcro - 50 linear feet

- e. Rubber Infill - 2 large bags or enough to cover the repair material area(s) listed under line 3, whichever is greater.
- f. Sand Infill - 2 large bags or enough to cover the repair material area(s) listed under line 3, whichever is greater.
- g. Emergency Repair Kit: Two (2) Kits (1 per field) each for an approximately 2.5 SF repair.
  - 1) 5 gallon pail with lid containing the following:
    - (a) 1 QT seaming adhesive in sealed container with removable lid
    - (b) 2 QT sand in sealed container with removable lid
    - (c) 2 QT rubber in sealed container with removable lid
    - (d) 10 LF seaming tape
    - (e) 10 LF Velcro Hook - Baseball/Softball fields only
    - (f) 10 LF Velcro Loop - Baseball/Softball fields only
    - (g) 1 EA carpet knife with 5 (min) replacement blades
    - (h) 1 EA 1/4" steel blade square notch glue spreader, or as recommended by ATM
    - (i) 1 EA Steel or magnesium concrete hand float 14" x 3-3/4"
    - (j) 1 EA Hot Melt Glue Gun - Ryobi One+ 18V cordless Dual Temperature, or approved equivalent
    - (k) 40 EA (min) Hot melt glue sticks - Gorilla Glue or as recommended by ATM, 8" length
- h. Supply Maintenance information and source contact

**3.7 CLEAN-UP AND COMPLETION**

- A. Protect all installed work from other construction activities as installation progresses.
- B. The Contractor shall keep the area clean throughout the construction period and free from the installation process, including adjacent surfaces.
- C. Upon completion of the installation, thoroughly clean surfaces and site of all refuse resulting from the installation process, including adjacent surfaces.
- D. Any damage to existing fixtures or facilities resulting from the installation of the synthetic turf system shall be repaired to original condition at the Contractor's expense prior to Substantial Completion and commencement of the Warranty Period.
- E. A deficiency (punch) list will be produced by the Owner's Representative at the conclusion of the project. All installation project deficiencies not in dispute must

be remedied by the Contractor prior to the issuance of a certificate of Substantial Completion.

- F. Contractor to provide a written acceptance by the Turf Manufacturer that the turf and base system is installed in accordance with their recommendations prior to final acceptance.

#### **PART 4 - MEASUREMENT & PAYMENT**

##### **4.1 MEASUREMENT**

- A. Artificial (synthetic) turf surfacing system will not be measured. Payment will be made at the planned quantity for the square foot finished dimensions as shown on the plans and no cut off pieces will be paid for.
- B. Nailer Boards shall be incidental to Synthetic Turf Surfacing System.
- C. All components for which a bid item is not listed on the bid form will be considered incidental.

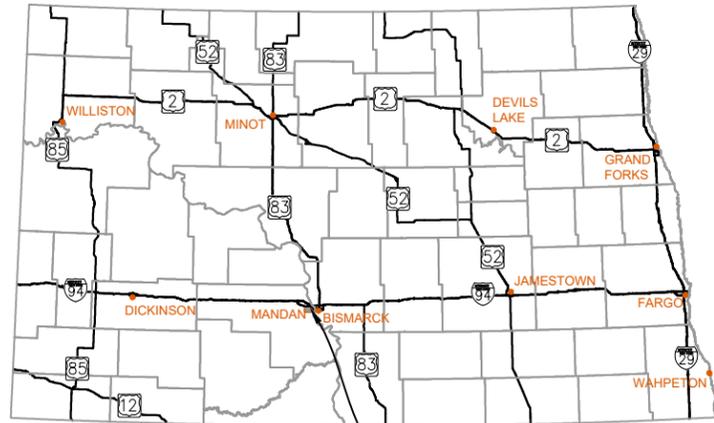
##### **4.2 PAYMENT**

- A. Payment for specific bid items shall be at the unit price bid and shall include all costs for labor, equipment and materials.
- B. Payment for Artificial (Synthetic) Turf Surfacing System will be paid at plan quantity for the unit price bid.

**END OF SECTION**

# YOUTH BASEBALL COMPLEX RENOVATION FIELDS 11 AND 12 MANDAN PARK DISTRICT MANDAN, NORTH DAKOTA

JANUARY 2026



STATE OF NORTH DAKOTA PROJECT LOCATION

MANDAN, NORTH DAKOTA



VICINITY MAP

NO SCALE

### INDEX OF SHEETS

<u>CIVIL</u>	
C0.0	COVER SHEET
C1.0-C1.1	NOTES & LEGEND
C2.0-C2.2	EXISTING CONDITIONS & REMOVALS
C3.0-C3.2	UTILITY PLAN
C4.0-C4.2	SITE LAYOUT PLAN
C5.0-C5.2	SPOT ELEVATION PLAN
C6.0-C6.5	SITE DETAILS
C7.0	SEEDING & IRRIGATION PLAN

### CERTIFICATION

I HEREBY CERTIFY THAT THE ATTACHED PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NORTH DAKOTA.

  
BRAD KROGSTAD, PE-5786

DATE: \_\_\_\_\_



No.	REVISED SHEETS	DESCRIPTION	DATE
1	C0.0, C4.1, C5.0, C5.1, C5.2, C6.1, C6.2	ADDENDUM 1: INFIELD SUBGRADE ELEVATIONS	2/04/2026

### BASIS OF CONCEPT

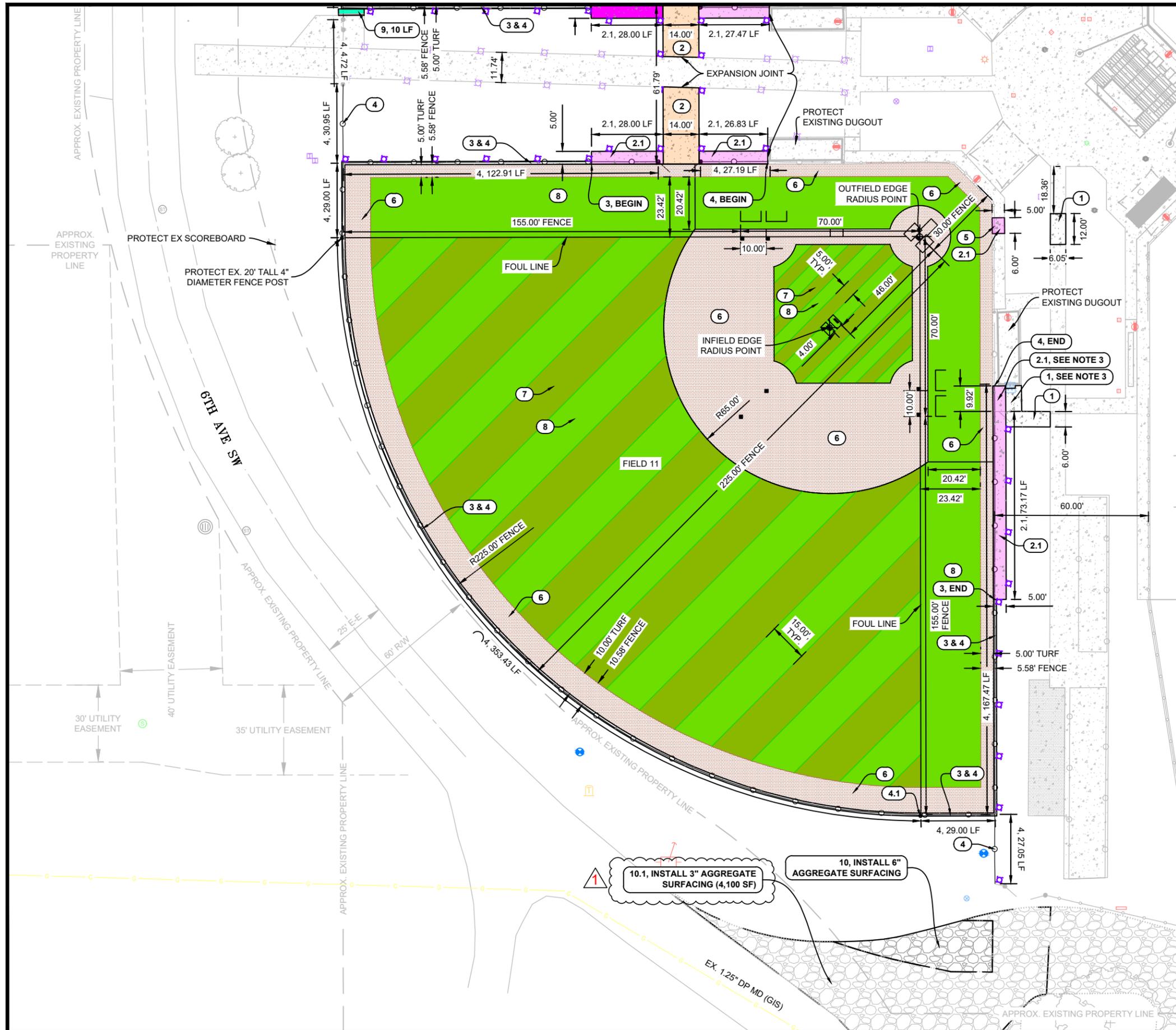
ALL CONTOURS, ELEVATIONS, AND COORDINATES FOR THE PROJECT ARE BASED ON NAD83 (2011) STATE PLANE COORDINATE SYSTEM, NORTH DAKOTA SOUTH ZONE 3302, GEOID 12B (CONUS), AND NAVD 88 (INTERNATIONAL FEET).



MANDAN PARKS DISTRICT 400 E BROADWAY AVE, SUITE 600  
2600 46TH AVE SE BISMARCK, ND 58501  
MANDAN, ND 58554 PH: 701.355.8400  
PH: 701.751.616 www.kljeng.com  
www.mandanparks.com

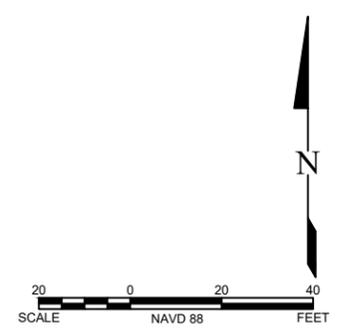


KLJ PROJECT NO. 2104-01961



- LAYOUT KEYNOTES:**
- ① 4" UNREINFORCED CONCRETE PAVEMENT, SEE DETAIL 1/C6.2
  - ② 5.5" REINFORCED CONCRETE PAVEMENT, SEE DETAIL 5/C6.2
  - ②.1 5.5" UNREINFORCED CONCRETE PAVEMENT, SEE DETAIL 3/C6.2 & 1/C6.3
  - ③ 14" WIDE NAILER CURB, FIELD EDGE PERIMETER, SEE DETAIL 2/C6.3
  - ④ RESET 6" GALVANIZED CHAINLINK FENCE W/ FENCE CROWN
  - ④.1 INSTALL NEW 20" TALL 4" DIA. CHAINLINK FENCE POST TO ALIGN WITH NEW FOUL LINE.
  - ⑤ ADJUST BACKSTOP FENCE IF NEEDED, SEE DETAIL 1/C6.4
  - ⑥ SYNTHETIC TURF SECTION, BROWN (INFIELD & WARNING TRACKS ONLY)
  - ⑦ SYNTHETIC TURF SECTION, LIGHT GREEN
  - ⑧ SYNTHETIC TURF SECTION, DARK GREEN
  - ⑨ 12" WIDE SIDEWALK TRENCH DRAIN, SEE DETAIL 6/C6.2
  - ⑩ 6" DEPTH AGGREGATE SURFACING
  - ⑩.1 3" DEPTH AGGREGATE SURFACING

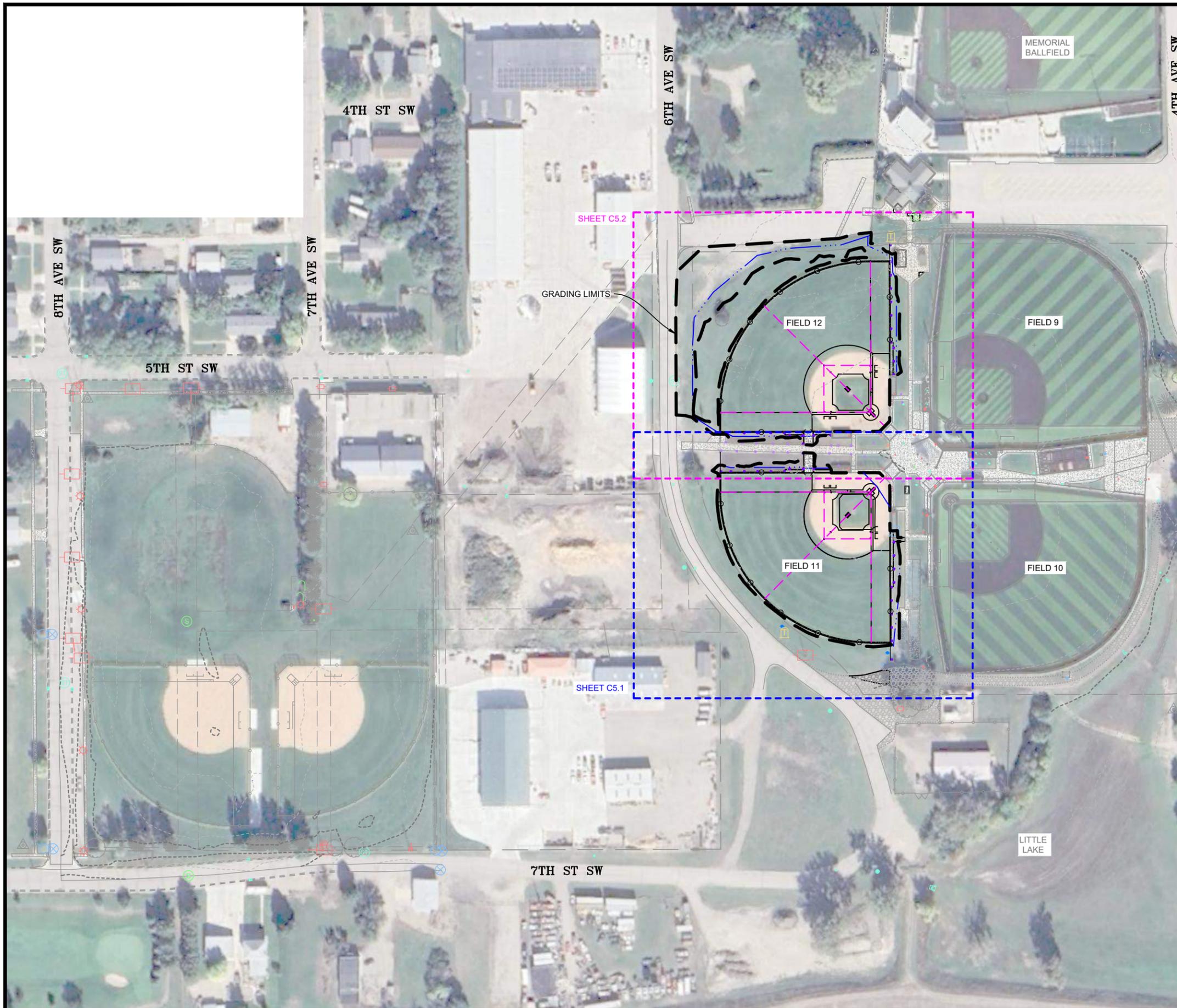
- NOTES:**
1. FIELD DIMENSIONS TO FENCE ARE TO CENTER OF FENCE UNLESS NOTED OTHERWISE. CENTER OF FENCE IS 7" BEYOND EDGE OF NAILER CURB.
  2. SEE SHEET C2.1 FOR CHAINLINK FENCE POST ADJUSTMENTS.
  3. LEAVE OPENING/BOX OUT AROUND EXISTING IN GROUND CONDUITS. PROVIDE 12" CLEARANCE BETWEEN CONDUITS AND EDGE OF CONCRETE. BACKFILL BOX OUT WITH NATIVE SANDY FILL FLUSH WITH TOP OF CONCRETE.



REVISION	ADDENDUM 1
DATE	2/04/2026
NO.	1
DRAFTED	MJM
REVIEWED	ADW
PROJECT NUMBER	2104-01961
ISSUE DATE	1/20/2026

**YOUTH BASEBALL FIELDS 11 & 12**  
 MANDAN PARK DISTRICT  
 MANDAN, NORTH DAKOTA  
 SITE LAYOUT PLAN - FIELD 11

SHEET  
**C4.1**



**SHRINKAGE FACTOR**  
 20.0% WAS ASSUMED IN CALCULATIONS FOR SHRINKAGE FOR EMBANKMENT

**TOPSOIL**  
 TOPSOIL REMOVAL AREA = 2.74 ACRES  
 ASSUMED EXISTING TOPSOIL DEPTH = 4"  
 TOPSOIL REMOVED = 1,476 CY

TOPSOIL REPLACEMENT AREA = 1.00 ACRES  
 TOPSOIL REPLACEMENT DEPTH = 6"  
 TOPSOIL REPLACED = 805 CY

TOPSOIL BALANCE: 1,476 CY - 805 CY = 671 CY\*

**COMMON EXCAVATION**  
 EXCAVATION TO SUBGRADE = 1,162 CY (EV)  
 EXCAVATION OF AGRI-LIME = 242 CY (EV) (BY OWNER)

EMBANKMENT TO SUBGRADE = 1,079 CY (CV)

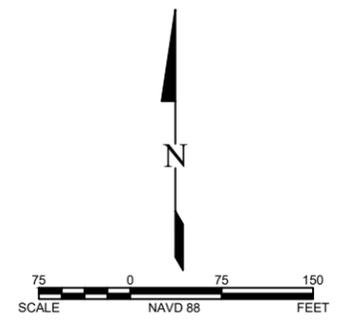
**TOTAL MATERIAL REQUIRED**  
 1,079 CY \* (1+0.20) = 1,295 CY (EV)

**MATERIAL BALANCE**  
 1,295 CY (EV) - 1,162 CY (EV) = 133 CY (EV)\*\*

\*EXCESS TOPSOIL MATERIAL  
 \*\*MATERIAL TO BE IMPORTED

ENGINEER HAS ASSUMED A COMPACTION FACTOR FOR THE PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE ADEQUACY OF THIS ASSUMPTION IN ORDER TO USE ALL OF THE MATERIAL ON-SITE WITH NO STOCKPILES REMAINING AFTER CONSTRUCTION. FIELD ADJUSTMENTS MAY BE REQUIRED TO BALANCE THE SITE WITH APPROVAL OF THE ENGINEER. (INCIDENTAL TO PROJECT)  
 CV = COMPACTED VOLUME  
 EV = EXCAVATED VOLUME

SEE DETAIL 4/C6.1 FOR BASE STONE (TRENCHES & INFIELD SUBGRADE SLOPE).



		REVISION	
		NO.	DATE
	1	2/04/2026	ADDENDUM 1
DRAFTED	JP		
REVIEWED	AW		
PROJECT NUMBER	2104-01961		
ISSUE DATE	1/20/2026		

**YOUTH BASEBALL FIELDS 11 & 12**  
 MANDAN PARK DISTRICT  
 MANDAN, NORTH DAKOTA

**SPOT ELEVATION PLAN - OVERVIEW**

SHEET  
**C5.0**

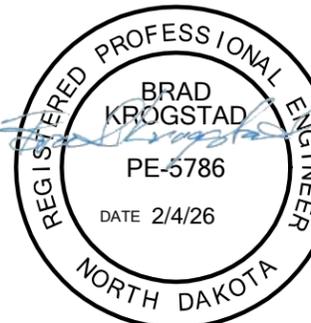
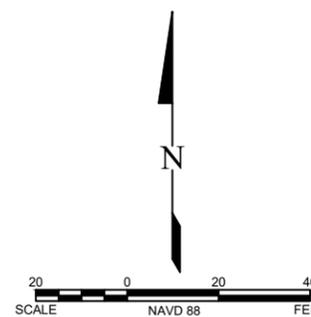


**LEGEND**

- 1814 --- EXISTING CONTOURS
- 1813 --- PROPOSED CONTOURS
- FLOW LINE
- BREAKLINE
- GRADING LIMITS
- BL: BREAK LINE
- FG: FINISH GRADE
- FL: FLOW LINE
- HP: HIGH POINT
- INV: INVERT ELEVATION
- LP: LOW POINT
- ME: MATCH EXISTING
- RIM: RIM ELEVATION
- TA: TOP OF ASPHALT
- TBC: TOP BACK OF CURB
- TC: TOP OF CONCRETE
- TG: TOP OF GRAVEL
- SG: TOP OF SUBGRADE

**NOTES:**

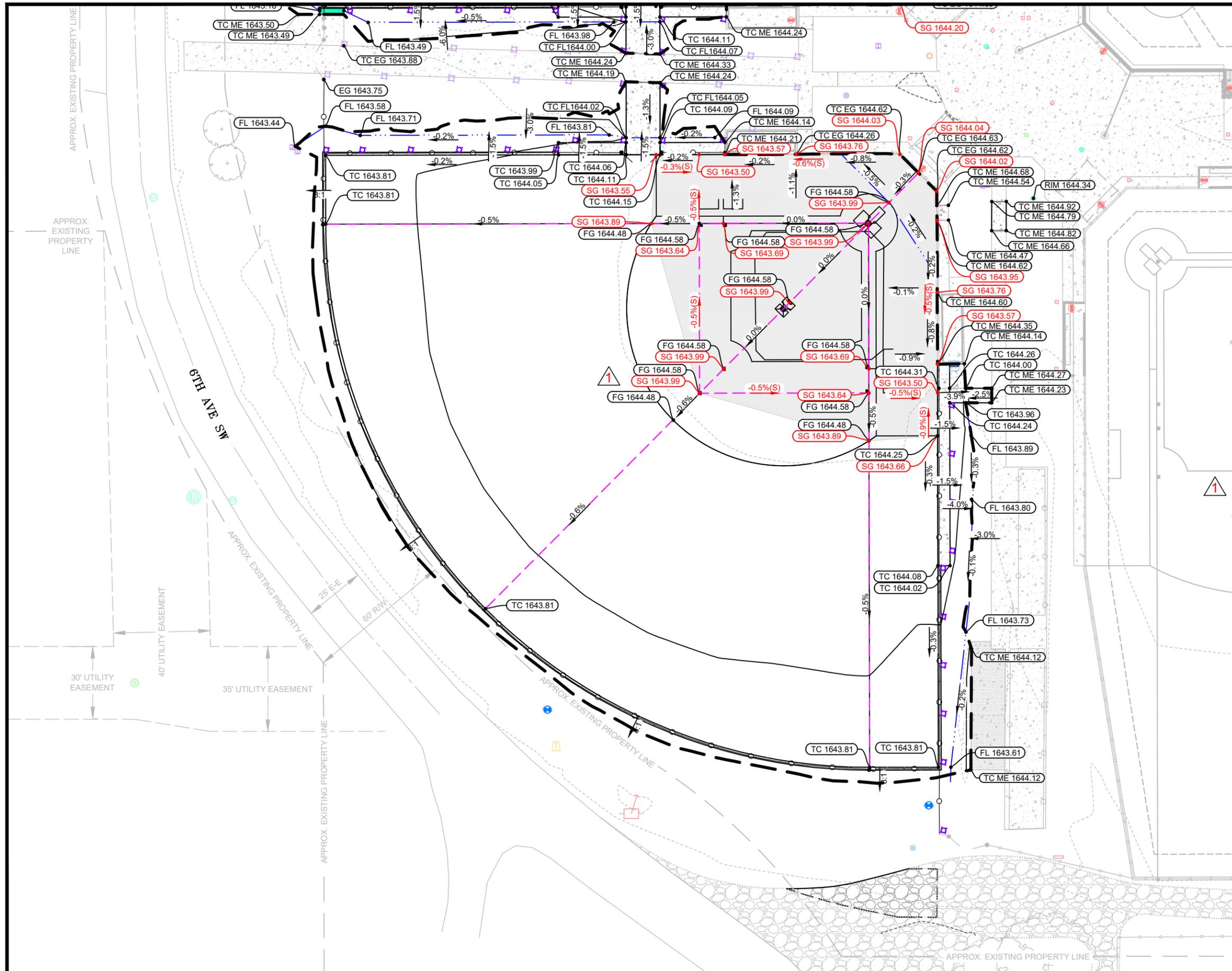
1. EXISTING CONTOURS SHOWN AT 1' INTERVALS.
2. PROPOSED CONTOURS SHOWN AT 1' INTERVALS.
3. CONTRACTOR TO GRADE SURFACE TO PREVENT PONDING OF WATER OTHER THAN AT LOW POINTS CALLED OUT ALONG FLOW LINES.
4. CONTRACTOR TO GRADE FIELD SUBGRADE SURFACE TO PREVENT PONDING OF WATER.
5. CONSTRUCT TOP OF SUBGRADE (BOTTOM OF BASE STONE) WITHIN SHADED INFIELD AREA TO INDICATED ELEVATIONS. CONSTRUCT TOP OF SUBGRADE IN OUTFIELD AT 7.1 INCHES BELOW FINISHED GRADE.



**YOUTH BASEBALL FIELDS 11 & 12**  
 MANDAN PARK DISTRICT  
 MANDAN, NORTH DAKOTA  
 SPOT ELEVATION PLAN - FIELD 11

SHEET  
**C5.1**

REVISION			
DATE	2/04/2026		
NO.	1		
		ADDENDUM 1	
DRAFTED	JP		
REVIEWED	AW		
PROJECT NUMBER	2104-01961		
ISSUE DATE	1/20/2026		



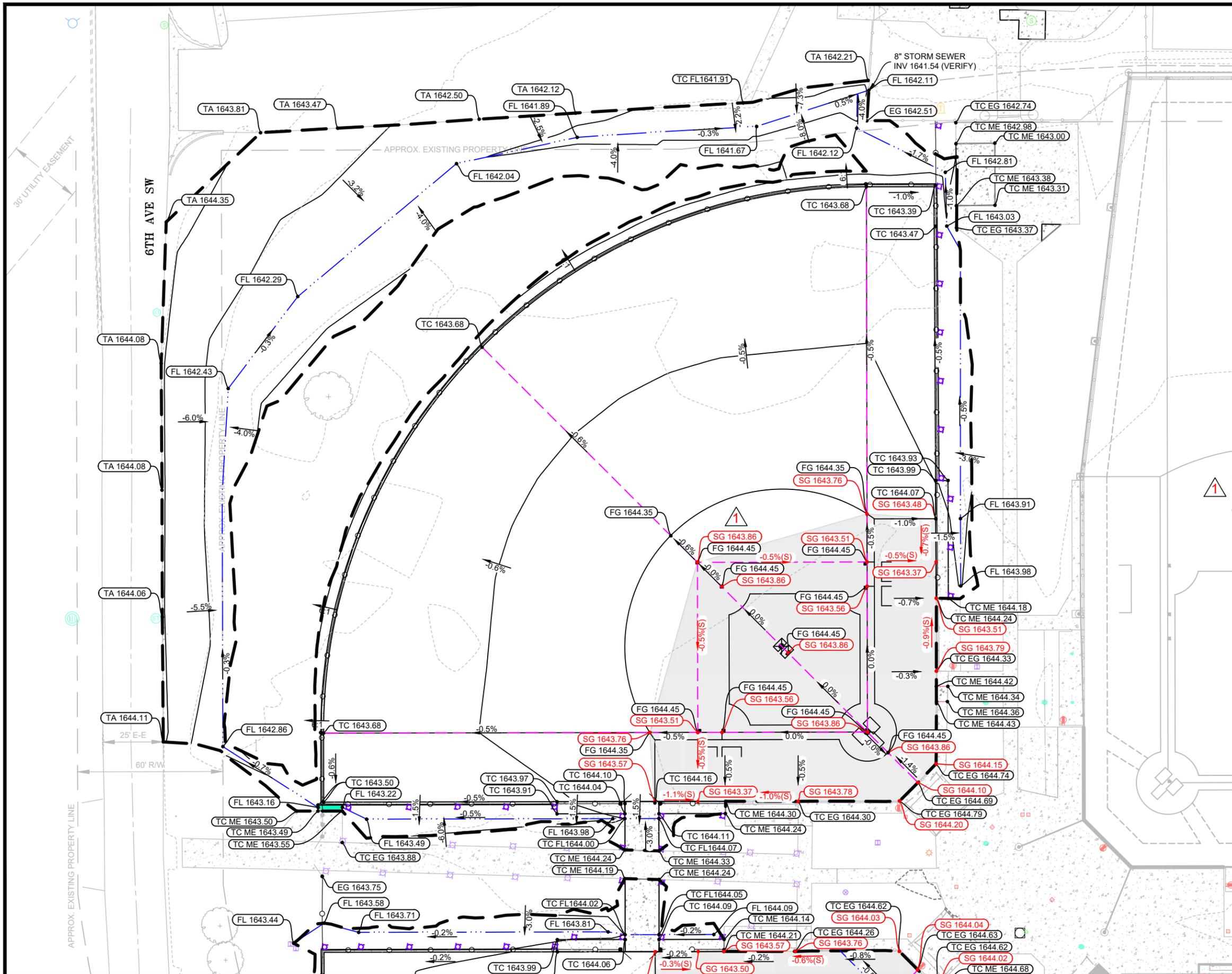
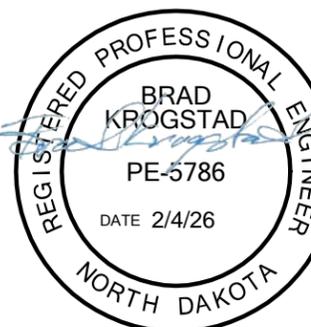
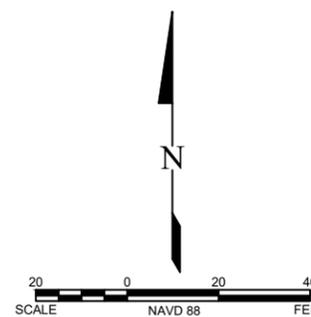


**LEGEND**

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- FLOW LINE
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4. CONTRACTOR TO GRADE FIELD SUBGRADE SURFACE TO PREVENT PONDING OF WATER.
5. CONSTRUCT TOP OF SUBGRADE (BOTTOM OF BASE STONE) WITHIN SHADED INFIELD AREA TO INDICATED ELEVATIONS. CONSTRUCT TOP OF SUBGRADE IN OUTFIELD AT 7.1 INCHES BELOW FINISHED GRADE.

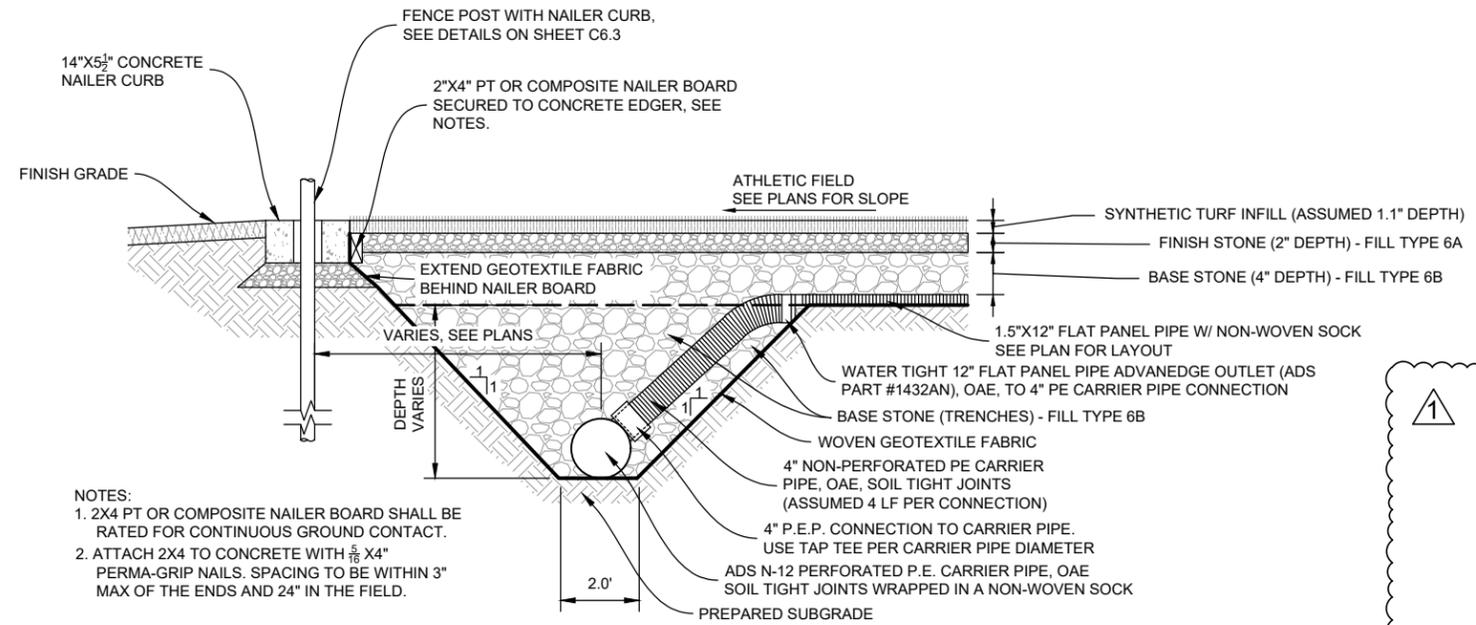


**YOUTH BASEBALL FIELDS 11 & 12**  
 MANDAN PARK DISTRICT  
 MANDAN, NORTH DAKOTA

**SPOT ELEVATION PLAN - FIELD 12**

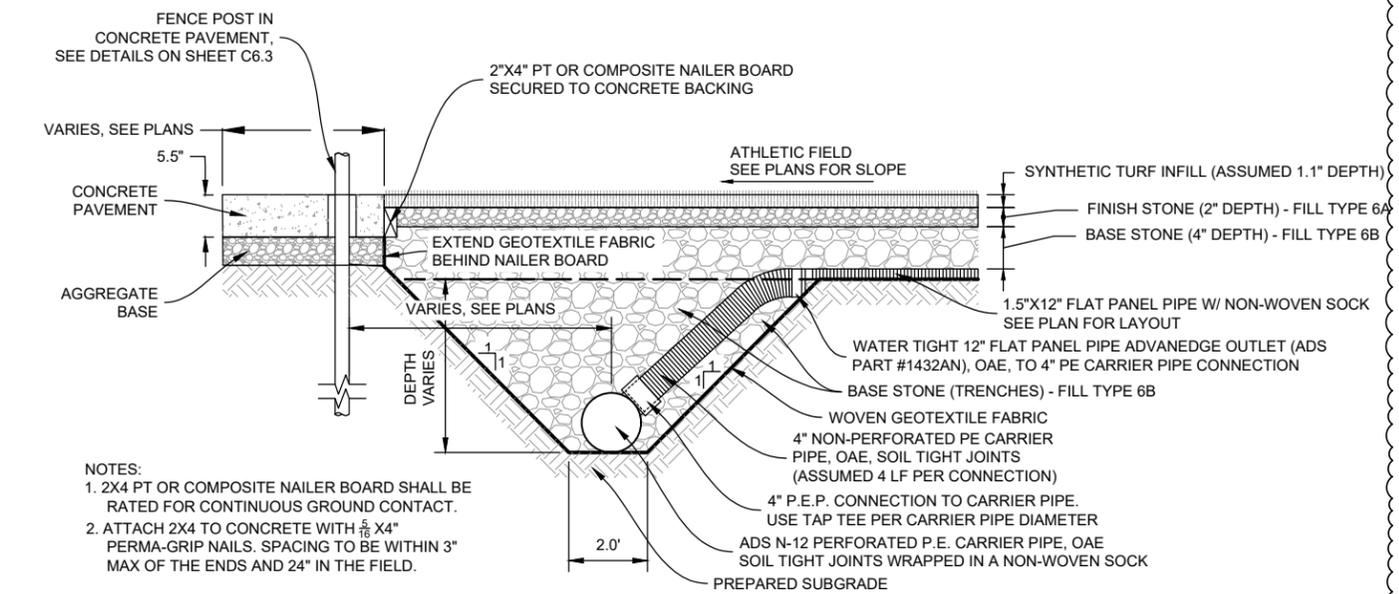
SHEET  
**C5.2**

REVISION			
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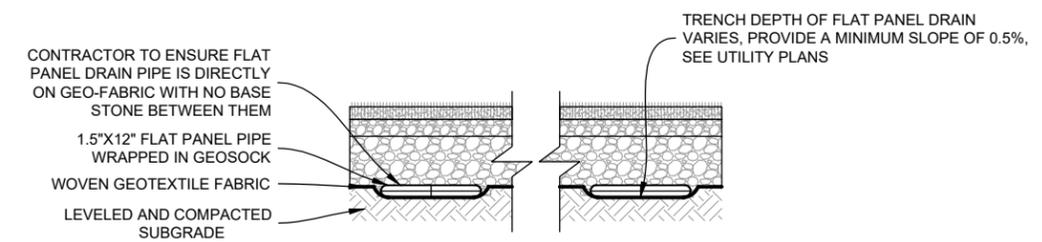
- NOTES:
1. 2X4 PT OR COMPOSITE NAILER BOARD SHALL BE RATED FOR CONTINUOUS GROUND CONTACT.
  2. ATTACH 2X4 TO CONCRETE WITH  $\frac{5}{16}$  X4\"/>

1 C6.7 SYNTHETIC TURF FIELD SECTION - BY NAILER CURB & FENCE NOT TO SCALE

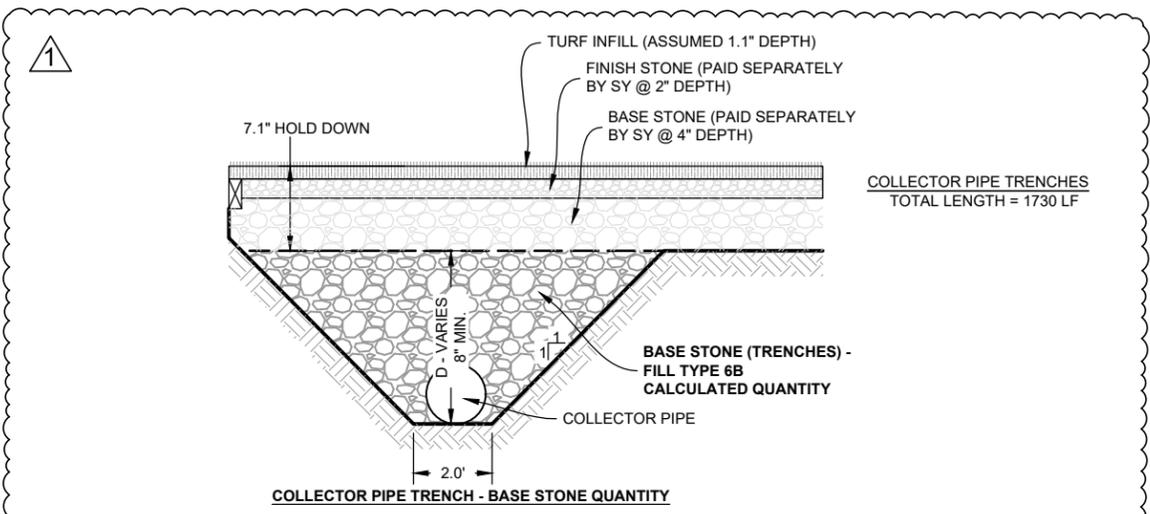


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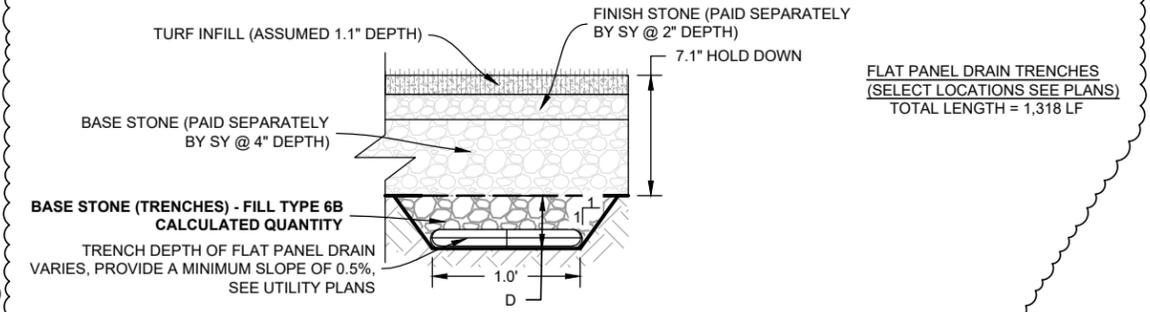
2 C6.7 SYNTHETIC TURF FIELD SECTION - BY CONCRETE & FENCE NOT TO SCALE



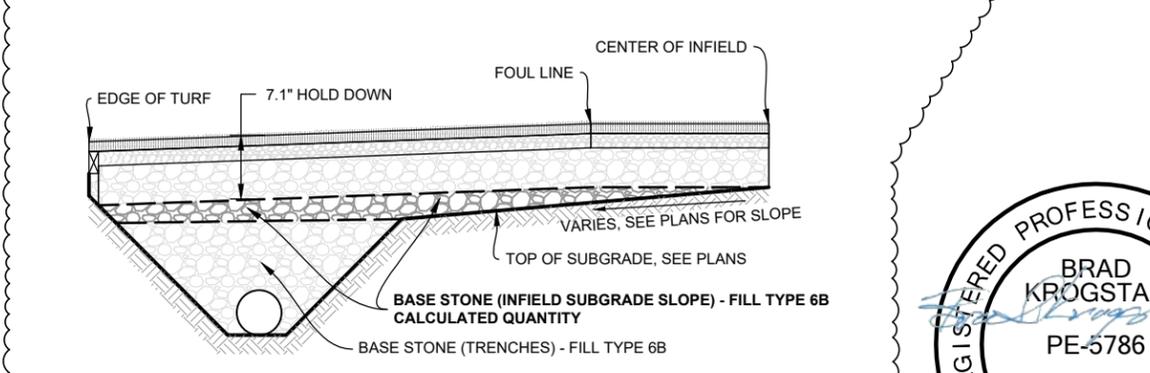
3 C6.7 FLAT PANEL DRAIN LAYOUT SECTION - FIELD NOT TO SCALE



COLLECTOR PIPE TRENCH - BASE STONE QUANTITY



FLAT PANEL DRAIN TRENCH - BASE STONE QUANTITY



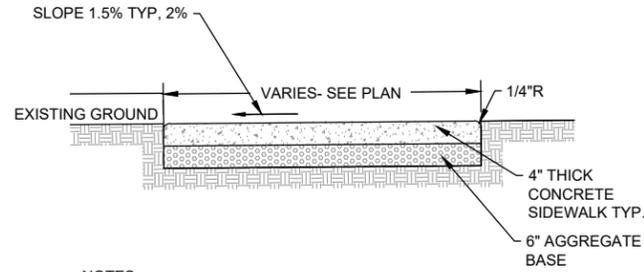
INFIELD SUBGRADE SLOPE - BASE STONE QUANTITY

4 C6.7 BASE STONE (TRENCHES & INFIELD SUBGRADE SLOPE) NOT TO SCALE



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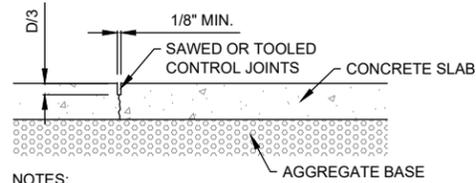
**YOUTH BASEBALL FIELDS 11 & 12**  
 MANDAN PARK DISTRICT  
 MANDAN, NORTH DAKOTA  
 SITE DETAILS



**NOTES:**

- 1/2" PRE-FORMED EXPANSION JOINT FILLER SHALL BE INSTALLED FOR THE FULL THICKNESS OF THE SIDEWALK AND SHALL BE USED AT ALL JOINTS BETWEEN NEW SIDEWALK AND EXISTING SIDEWALK. EXPANSION JOINT SPACING SHALL NOT EXCEED 100'.
- DOWELED EXPANSION JOINT SHALL BE CONSTRUCTED WITH 12" LONG #4 BARS AT 12" O.C. SPACING, CENTERED IN THE JOINT AND SLAB.
- ALL EXPANSION JOINTS SHALL BE SEALED.
- CONTROL JOINT SPACING SHALL NOT EXCEED THE WIDTH OF THE SIDEWALK OR 8 FEET, WHICHEVER IS LESS.

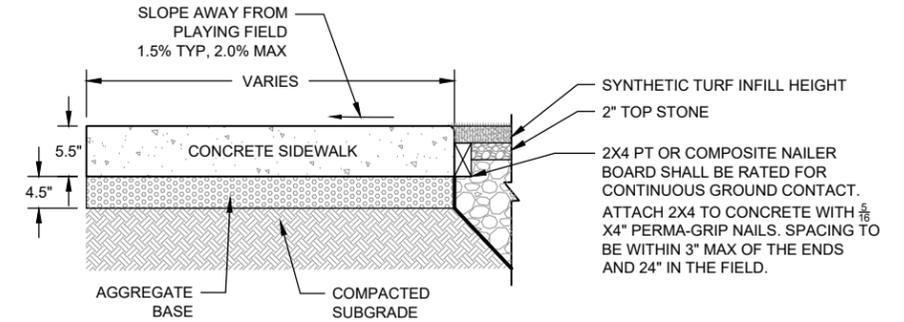
**1** 4" UNREINFORCED CONCRETE PAVEMENT  
NOT TO SCALE



**NOTES:**

- D = DEPTH OF CONCRETE
- PROVIDE 1/4" RADIUS FOR TOOLED CONTROL JOINTS.

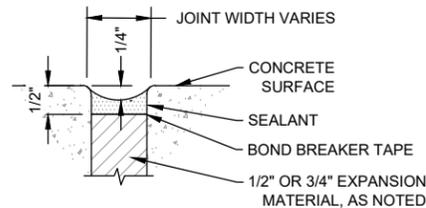
**2** CONTROL JOINT  
NOT TO SCALE



**NOTES:**

- CONTROL JOINTS SHALL BE SAWED OR TOOLED TO 1/3 CONCRETE DEPTH (MIN.)
- 1/2" PRE-FORMED EXPANSION JOINT FILLER SHALL BE INSTALLED FOR THE FULL THICKNESS OF THE SIDEWALK AND SHALL BE USED AT ALL JOINTS BETWEEN NEW BUILDINGS AND ADJACENT PAVEMENT.
- ALL EXPANSION JOINTS SHALL BE SEALED
- EXPANSION JOINT SPACING SHALL NOT EXCEED 100' IN NEW CONSTRUCTION. CONTROL JOINT SPACING SHALL NOT EXCEED 6'.

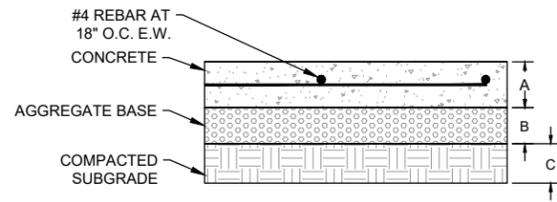
**3** 5.5" UNREINFORCED CONCRETE  
NOT TO SCALE



**NOTES:**

- IN LIEU OF BOND BREAKER TAPE, EXPANSION MATERIAL MAY BE HELD LOW, AND BACKER ROD MAY BE INSTALLED.
- ALL EXPANSION JOINTS SHALL BE SEALED.

**4** EXPANSION JOINT SEAL  
NOT TO SCALE



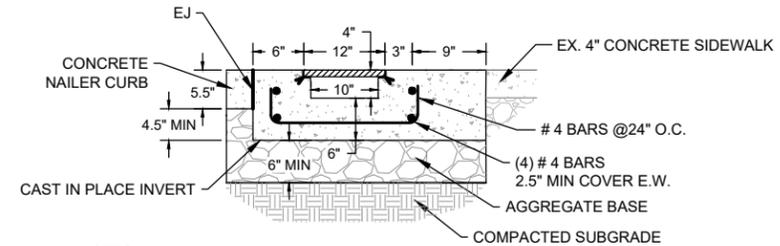
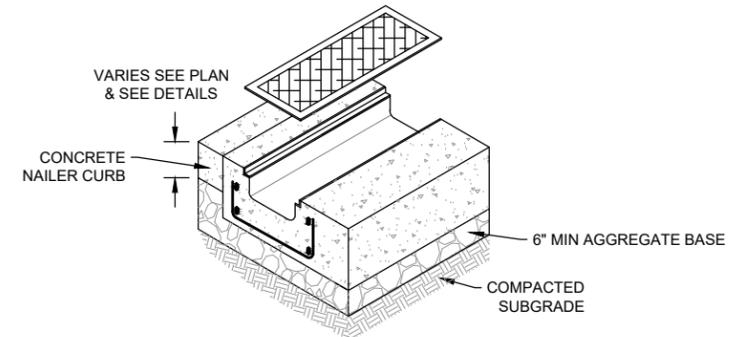
**LIGHT-DUTY**

- |     |                               |      |
|-----|-------------------------------|------|
| (A) | PORTLAND CEMENT CONCRETE      | 5.5" |
| (B) | AGGREGATE BASE COURSE         | 4.5" |
| (C) | COMPACTED / PREPARED SUBGRADE | 12"  |

**NOTES:**

- SUB-GRADE SHALL BE PREPARED AND COMPACTED IN ACCORDANCE WITH PROJECT GEOTECHNICAL CONSULTANT'S RECOMMENDATIONS. SEE NOTES SHEET.
- CONTROL JOINT SPACING SHALL BE NO GREATER THAN 2X THE PAVEMENT THICKNESS IN FEET.
- CONTROL JOINTS SHALL BE SAWED OR TOOLED TO 1/3 CONCRETE DEPTH (MIN.)
- PRE-FORMED 1/2" EXPANSION JOINT FILLER SHALL BE INSTALLED FOR THE FULL THICKNESS OF THE PAVEMENT AND SHALL BE USED AT ALL JOINTS BETWEEN NEW 5.5" REINFORCED CONCRETE AND EXISTING CONCRETE.
- ALL EXPANSION JOINTS SHALL BE SEALED
- EXPANSION JOINT SPACING SHALL NOT EXCEED 100'.
- MIN. CLEAR COVER TO BE PROVIDED:  
TOP: 2"    SIDE: 3"    BOTTOM: 2"

**5** REINFORCED CONCRETE PAVEMENT DETAIL  
NOT TO SCALE



**NOTES:**

- TRENCH GRATE FRAME AND COVER SHALL BE NEENAH R-4990-CX WITH A TYPE D SOLID LID COVER OR AN APPROVED EQUAL. GRATE AND COVER SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. SUPPORT BRACES SHALL BE INSTALLED ONE AT EACH END AND 2' CENTER TO CENTER THEREAFTER.
- CONCRETE FOR THE TRENCH DRAIN SHALL BE INCLUDED IN THE BID ITEM "SIDEWALK TRENCH DRAIN."



**6** SIDEWALK TRENCH & GRATE  
NOT TO SCALE



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