



**ADDENDUM NO. 2  
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 2 in the bid schedule footer.
  - B. Item No. 14 - Common Excavation & Embankment to Subgrade Elevation (P): Decrease quantity to 1,125 CY. (Paid at plan quantity)
  - C. Item No. 15 - Imported General Fill - Fill Type 1B to Subgrade Elevation (P): Increase quantity to 201 CY. (Paid at plan quantity)
  - D. Item No. 18 - Base Stone (Trenches & Infield Subgrade Slope) - Fill Type 6B (P): Decrease quantity to 813 CY. (Paid at plan quantity)
  
- 2. Specifications Section 31 2323 - Fill**
  - A. Replace Paragraph 2.1.C.1 as follows.
    1. Imported Fill shall be one of the following.
      - a. Sand or Gravel (GW, GC, SW, SC)
        - 1) Well graded and compactible material.
        - 2) Free of lumps larger than 3 inches, rocks larger than 1.5 inches, organics, and debris.
        - 3) Structural Fill - Fill Type 2, Aggregate Base - Fill Type 3, and Pipe Bedding - Fill Type 4A are acceptable materials for use as Imported Fill - Fill Type 1B.
      - b. Lean Clay (CL) with sand or gravel, or gravelly, having the following qualities:
        - 1) Graded and compactible material.
        - 2) Free of lumps larger than 3 inches, rocks larger than 1.5 inches, organics, and debris.
        - 3) Plasticity index tests shall be provided to confirm that the plastic limit is less than 20%
        - 4) Fat clay material may not be utilized as imported fill.

- 5) Imported clay with sand or gravel, or gravelly clay, shall meet the following gradation:

Sieve Size	Percent Passing
3/4"	95% - 100%
3/8"	95% - 100%
No. 4	90% - 100%
No. 16	85% - 100%
No. 50	75% - 100%
No. 100	55% - 80%
No. 200	40% - 55%

- B. Add Paragraph 2.1.D. as follows and renumber subsequent paragraphs.

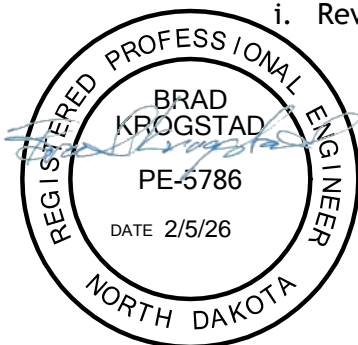
D. Structural Fill - Fill Type 2: May be used as Imported General Fill.

1. Non-frost susceptible Sand per the following gradation:

Sieve Size	Percent Passing
3/8"	100%
No. 4	95% - 100%
No. 16	45% - 80%
No. 50	10% - 30%
No. 100	0% - 10%
No. 200	0% - 5%

### 3. Plan Sheets

- A. C0.0 - Cover
  - i. Revised revision block.
- b. C3.1 - Utility Plan - Field 11
  - i. Revised perforated pipe inverts.
- c. C3.2 - Utility Plan - Field 12
  - i. Revised perforated pipe inverts.
- d. C5.0 - Spot Elevation Plan - Overview
  - i. Revised earthwork calculations.



Brad Krogstad, PE  
2/05/2026

**END OF ADDENDUM NO. 2**

**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>
<u>1</u>	<u>2/04/2026</u>
<u>2</u>	<u>2/05/2026</u>
<u> </u>	<u> </u>

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)	1,125	CY	\$	\$

15	31 2323	IMPORTED GENERAL FILL - FILL TYPE 1B TO SUBGRADE ELEVATION (P)	201	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)	813	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 31 2323  
FILL**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Filling, backfilling, and compacting for playing fields, exterior slabs on grade, and paving.
- B. Backfilling and compacting for utilities.
- C. Subgrade preparation and base construction for paving and below synthetic turf playing fields.
- D. Aggregate surfacing.
- E. Drainage rock for synthetic turf field systems.

**1.2 DEFINITIONS**

- A. Project Coordinator:
  - 1. Described in Section 01 3000 - Administrative Requirements.
- B. Owner's Representative(s):
  - 1. Described in Section 01 3000 - Administrative Requirements.

**1.3 RELATED REQUIREMENTS**

- A. Section 02 0100 - Sub-Surface Investigation: Geotechnical report; bore hole locations and findings of subsurface materials.
- B. Section 01 5713 - Erosion and Sediment Control: Slope protection and erosion control.
- C. Section 31 2200 - Grading: Topsoil removal and replacement.
- D. Section 31 2200 - Grading: Rough grading procedures.
- E. Section 31 2316 - Excavation: Removal and handling of soil to be re-used.
- F. Section 31 2316.13 - Trenching: Excavating for utility trenches.
- G. Section 31 3721 - Geotextile Fabrics: Woven geotextile fabric for synthetic turf systems and non-woven fabric for separation/filter fabric
- H. Section 32 1123 - Aggregate Base Courses: Base course installation beneath pavements.
- I. Section 33 4100 - Subdrainage: Drintile and flat panel drains for synthetic turf playing field drainage systems.

**1.4 DEFINITIONS**

- A. Finish Grade Elevations: Indicated on drawings.
- B. Subgrade Elevations: Indicated on drawings.

**1.5 REFERENCE STANDARDS**

- A. AASHTO M 147 - Standard Specification for Materials for Aggregate and Soil-Aggregate Subbase, Base, and Surface Courses; 2017 (Reapproved 2021).
- B. AASHTO T 180 - Standard Method of Test for Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop; 2025.
- C. ASTM C136/C136M - Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates; 2025.
- D. ASTM D698 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft<sup>3</sup> (600 kN-m/m<sup>3</sup>)); 2012 (Reapproved 2021).

- E. ASTM D1556/D1556M - Standard Test Method for Density and Unit Weight of Soil in Place by Sand-Cone Method; 2024.
- F. ASTM D1557 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft<sup>3</sup> (2,700 kN-m/m<sup>3</sup>)); 2012 (Reapproved 2021).
- G. ASTM D2167 - Standard Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method; 2015.
- H. ASTM D2487 - Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System); 2017 (Reapproved 2025).
- I. ASTM D4318 - Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils; 2017, with Editorial Revision (2018).
- J. ASTM D6938 - Standard Test Method for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth); 2015.
- K. ASTM D6817/D6817M - Standard Specification for Rigid Cellular Polystyrene Geofoam; 2017 (Reapproved 2025).
- L. ASTM D6938 - Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth); 2023.
- M. ASTM D7557/D7557M - Standard Practice for Sampling of Expanded Polystyrene Geofoam Specimens; 2009 (Reapproved 2021).
- N. North Dakota Department of Transportation (NDDOT) - Standard Specifications for Road and Bridge Construction; Current Edition.

#### **1.6 SUBMITTALS**

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Soil Samples: 10 pounds sample of each type of fill; submit in air-tight containers to testing laboratory.
- C. Materials Sources: Submit name of imported materials source.
- D. Fill Composition Test Reports: Results of laboratory tests on proposed and actual materials used.
- E. Compaction Density Test Reports.

#### **1.7 DELIVERY, STORAGE, AND HANDLING**

- A. When necessary, store materials on site in advance of need.
- B. When fill materials need to be stored on site, locate stockpiles where designated.
  - 1. Separate differing materials with dividers or stockpile separately to prevent intermixing.
  - 2. Prevent contamination.
  - 3. Protect stockpiles from erosion and deterioration of materials.

### **PART 2 PRODUCTS**

#### **2.1 FILL MATERIALS**

- A. Fill materials shall conform to the requirements herein unless otherwise approved by the Owner's Representatives.
- B. General Fill- Fill Type 1A: Material excavated on site and approved for use as backfill by Project Coordinator or Owner's Representative.
  - 1. Sandy, graded and compactible material.
  - 2. Free of lumps larger than 3 inches, rocks larger than 2 inches, organics and debris.

3. Excavated fill material that is clay in nature with a plastic limit greater than 20% shall not be reused onsite without approval from the Geotechnical Engineer.

C. Imported Fill - Fill Type 1B: Material imported from a location offsite and approved for use as backfill by Project Coordinator or Owner's representative.

1. Imported Fill shall be one of the following.

a. Sand or Gravel (GW, GC, SW, SC)

- 1) Well graded and compactible material.
- 2) Free of lumps larger than 3 inches, rocks larger than 1.5 inches, organics, and debris.
- 3) Structural Fill - Fill Type 2, Aggregate Base - Fill Type 3, and Pipe Bedding - Fill Type 4A are acceptable materials for use as Imported Fill - Fill Type 1B.

b. Lean Clay (CL) with sand or gravel, or gravelly, having the following qualities:

- 1) Graded and compactible material.
- 2) Free of lumps larger than 3 inches, rocks larger than 1.5 inches, organics and debris.
- 3) Plasticity index tests shall be provided to confirm that the plastic limit is less than 20%
- 4) Fat clay material may not be utilized as imported fill.
- 5) Imported clay with sand or gravel, or gravelly clay, shall meet the following gradation:

Sieve Size	Percent Passing
3/4"	95% - 100%
3/8"	95% - 100%
No. 4	90% - 100%
No. 16	85% - 100%
No. 50	75% - 100%
No. 100	55% - 80%
No. 200	40% - 55%

D. Structural Fill - Fill Type 2: May be used as Imported General Fill:

1. Non-frost susceptible Sand per the following gradation:

Sieve Size	Percent Passing
3/8"	100%
No. 4	95% - 100%
No. 16	45% - 80%
No. 50	10% - 30%
No. 100	0% - 10%
No. 200	0% - 5%

E. Aggregate Base - Fill Type 3: To be used as aggregate base under pavements per Section 32 1123.

1. Conforming to State of North Dakota Department of Transportation standard for Class 5 Aggregate Base.

F. Pipe Bedding - Fill Type 4A

1. Utilize existing excavated, sandy soil that does not contain rocks or hard chunks larger than 1/2-inch, if available. If material is not available on site, provide sand from an outside source meeting the following gradation:

Sieve Size	Percent Passing
1/2"	100%
No. 4	60% - 85%
No. 200	0% - 10%

2. Pipe bedding shall conform to and be installed per pipe manufacturers requirements.

G. Crushed Rock - Fill Type 4B

1. Utilize crushed rock under manholes and inlets or where the bottom of trenches or excavations is wet or otherwise unsuitable and cannot support loads or provide adequate pipe support, as determined by the Owner's Representative. Crushed Rock shall conform to the following gradation:

Sieve Size	Percent Passing
1-1/2"	100%
1"	95% - 100%
1/2"	25% - 60%
No. 4	0% - 10%
Fractured Faces	85%

H. Drainage Fill - Fill Type 5

1. Drainage Fill for drain down sumps: Clean, freely draining aggregate. Place drainage fill in, between, and behind units. Do not use pea gravel. Material shall conform to the following gradation, or as specified by retaining wall Design Engineer:

- a. Graded in Accordance with ASTM C136, within the following limits:

Sieve Size	Percent Passing
1.5"	100%
1"	90% - 100%
3/4"	80% - 100%
1/2"	75% - 90%
3/8"	50% - 85%
No. 4	30% - 65%
No. 8	20% - 50%
No. 16	10% - 40%
No. 30	0% - 35%
No. 100	0% - 8%
No. 200	0% - 2%

- b. Compact to lines and grades on drawings, in lifts 6 inches thick, maximum; decrease lift thickness where necessary to achieve required density.

- c. Extend drainage fill 12 inches beyond back face of units.

I. Synthetic Turf Drainage Stone:

1. Synthetic Turf Drainage Stone shall be open-graded, crushed, free-draining material conforming to the gradations specified herein and the following minimum properties:

- a. Finish stone shall be 100% crushed with 100% containing at least two fractured faces.
- b. Base stone shall be 100% crushed with 100% containing at least one fractured face and 95% containing at least two fractured faces.
- c. Structural Stability:  $D60 / D10 > 5$  and  $1 < (D30)^2 / (D10 \times D60) < 3$ .
- d. Separation:  $D85$  (Finishing Stone) /  $D15$  (Base Stone)  $> 2$   
and  $3 < D50$  (Base Stone) /  $D50$  (Finishing Stone)  $< 6$
- e. Shale Content: 0% for Finish stone, 1% for Base stone.
- f. Permeability of Finishing and Base Stone layers shall not be less than 14 inches per hour.

2. Finishing Stone: Fill Type 6A

- a. Graded in Accordance with ASTM C136, within the following limits:

Sieve Size	Percent Passing
1/2"	100%
3/8"	95% - 100%
No. 4	80% - 98%
No. 8	45% - 65%
No. 16	20% - 45%
No. 30	10% - 30%
No. 100	1% - 6%
No. 200	0% - 5%

3. Base Stone: Fill Type 6B

- a. Graded in Accordance with ASTM C136, within the following limits:

Sieve Size	Percent Passing
1.5"	100%
1"	100%
3/4"	85% - 100%
5/8"	85% - 100%
1/2"	70% - 90%
3/8"	45% - 65%
No. 4	25% - 45%
No. 8	15% - 30%
No. 16	10% - 25%
No. 30	5% - 20%
No. 100	0% - 6%
No. 200	0% - 5%

J. Aggregate Surface Course - Fill Type 8B

- 1. For installation in private roadways and parking lots.
  - a. Conforming to State of North Dakota Department of Transportation standard for Class 5 Aggregate Base.

K. Topsoil: See Section 31 2200.

- L. Clay materials excavated on site and not defined above shall be utilized as approved by the Owner's Representative and in conformance with the recommendations provided by the Geotechnical Engineer.

## **2.2 SOURCE QUALITY CONTROL**

- A. See Section 01 4000 - Quality Requirements, for general requirements for testing and analysis of soil material.
- B. Where fill materials are specified by reference to a specific standard, test and analyze samples for compliance before delivery to site.
- C. If tests indicate materials do not meet specified requirements, change material and retest.
- D. Provide materials of each type from same source throughout the Work.

## **PART 3 EXECUTION**

### **3.1 EXAMINATION**

- A. Verify that survey bench marks and intended elevations for the Work are as indicated.
- B. Identify required lines, levels, contours, and datum.
- C. Verify subdrainage, dampproofing, or waterproofing installation has been inspected.
- D. Verify areas to be filled are not compromised with surface or ground water.

### **3.2 SUBGRADE PREPARATION**

- A. Subgrade preparation is required below synthetic turf playing fields.
- B. Scarify subgrade to a depth of 12 inches.
- C. Recompact with moisture and density control in accordance with Part 3.3 of this Section.
- D. The subgrade shall be recompacted by approved compaction equipment. The surface after compaction shall be true to line, grade, and cross section.
  - 1. Approved compaction equipment shall include sheepsfoot rollers, pneumatic packers, mechanical packers, mechanical rammers, vibratory equipment, trucks, tractors, scrapers, motor graders, and all other types of equipment used in excavating, transporting, and placing the subgrade.
  - 2. Correct irregularities in substrate gradient and elevation by scarifying, reshaping, and re-compacting.
- E. Proof roll subgrade to identify soft or yielding areas.
  - 1. Subgrade shall be proof-rolled by the Contractor using suitable equipment (such as a fully loaded water truck or fully loaded dump truck or a tractor-trailer combination), approved for this purpose by the Owner's Representative, before placing and/or spreading operations.
  - 2. Any ruts, soft yielding areas, or areas where subgrade cannot be adequately compacted shall be corrected at the Contractor's expense.
  - 3. Cut out unsatisfactory subgrade areas. Backfill with general fill or other material as directed by Owner's Representative.
  - 4. Recompact corrected subgrade areas to moisture control and density equal to or greater than requirements for subsequent fill material and in accordance with Part 3.3 of this Section.
- F. Until ready to place aggregate base course, protect prepared subgrade from unnecessary vehicle traffic, moisture, and prevent loose soil from falling onto prepared subgrade.
- G. Verify installation of geotextile fabric and/or geo-grid where indicated on plans.

### **3.3 FILLING**

- A. Fill to contours and elevations indicated using unfrozen materials.
- B. Employ a placement method that does not disturb or damage other work.
- C. Systematically fill to allow maximum time for natural settlement. Do not fill over porous, wet, frozen or spongy subgrade surfaces.
- D. Maintain optimum moisture content of fill materials to attain required compaction density within the following ranges, unless otherwise noted or indicated on the plans or in a geotechnical evaluation:
  - 1. Granular Soils: +/- 3 percent.
  - 2. Cohesive Soils Below Exterior Slabs & Pavements: 0 to +4 percent.
  - 3. Cohesive Soils Below Grassed Areas: 0 to +6 percent.
  - 4. If a geotechnical evaluation has been prepared for the project, the recommendations of that evaluation shall govern.
- E. Pipe Bedding: Place and compact materials in equal continuous layers not exceeding 6 inches compacted depth. Bedding dimensions shall be in accordance with the plans, or per manufacturers requirements.
- F. Lift Thickness: Place and compact material in equal continuous layers not exceeding 8 inches compacted depth where heavy, self-propelled compaction equipment will be utilized, or 6 inches compacted depth where hand-guided equipment will be utilized.
- G. Blend slopes into level areas.
- H. Relative Compaction Density shall be as follows per ASTM D698-Standard Proctor, unless otherwise noted or indicated on the plans or in a geotechnical evaluation:
  - 1. Under exterior slabs and pavement, and synthetic turf systems: minimum of 95% of maximum dry density.
  - 2. All other areas: minimum of 90% of maximum dry density.
- I. Reshape and re-compact fills subjected to vehicular traffic, or damaged or displaced due to construction operations.
- J. Maintain temporary means and methods, as required, to remove all water while fill is being placed as required, or until directed by the Owner's Representative. Remove and replace soils deemed unsuitable by classification and which are excessively moist due to lack of dewatering or surface water control.

### **3.4 TOLERANCES**

- A. Top Surface of General Filling (subgrade): Plus or minus 1 inch from required elevations in grassed or landscaped areas.
- B. Top Surface of Filling (subgrade) Under Paved Areas and Synthetic Turf: Plus or minus 1/2 inch from required elevations.
- C. Top Surface of Aggregate Base under exterior slabs and pavements: Plus or minus 1/4 inch from required elevations.
- D. Top Surface of Athletic Field Finishing Stone shall not vary by more than 1/4 inch required elevations.
- E. Flatness: Top surface of Athletic Field Finishing Stone and infill shall be free of high or low points which exceed 1/4" height across a 12-foot straight edge.

### **3.5 FIELD QUALITY CONTROL**

- A. See Section 01 4000 - Quality Requirements, for general requirements for field inspection and testing.

- B. For delivered turf base stone and turf finish stone, perform a sieve analysis in accordance with ASTM C136 or ASTM C136M. Verify that the delivered stone gradation matches the approved shop submittal for turf stone fill materials.
- C. Perform compaction density testing on compacted fill in accordance with ASTM D1556, ASTM D2167, or ASTM D6938.
- D. Evaluate results in relation to compaction curve determined by testing uncompacted material in accordance with ASTM D698 ("standard Proctor").
- E. If tests indicate work does not meet specified requirements, remove work, replace and retest. Contractor shall be responsible for all costs associated with additional testing required as a result of failed tests and/or substandard work.
- F. Frequency of Tests, unless otherwise noted or indicated on the plans or in a geotechnical evaluation:
  - 1. Below Exterior Slabs & Pavement: Provide one passing density and moisture test per lift of fill per 750 square yards of area.
  - 2. Below Grass and Landscape Planting Areas: If directed by Owner's Representative proof roll only. Provide density and moisture tests only where directed by Owner's Representative.
  - 3. Below Synthetic Turf System: Provide one passing density and moisture test per lift of fill per 1,000 square yards of area.
  - 4. Utility Trenches: Provide one passing density and moisture test per 30 inches of backfill per 300 feet of trench, and no less than one passing density and moisture test per service line, or more as directed by Owner's Representative, at top of subgrade elevation.
  - 5. If a geotechnical evaluation has been prepared for the project, the recommendations of that evaluation shall govern.

### **3.6 CLEANING**

- A. Remove unused stockpiled materials, leave area in a clean and neat condition. Grade stockpile area to prevent standing surface water.
- B. Leave borrow areas in a clean and neat condition. Grade to prevent standing surface water.

## **PART 4 MEASUREMENT AND PAYMENT**

### **4.1 MEASUREMENT**

- A. If specific items are listed on bid form, measurement will be made in accordance with each specific bid item.
- B. For lump sum (LS) bid items, measurements will not be made.
- C. Items indicated to be paid at plan quantity will not be measured.

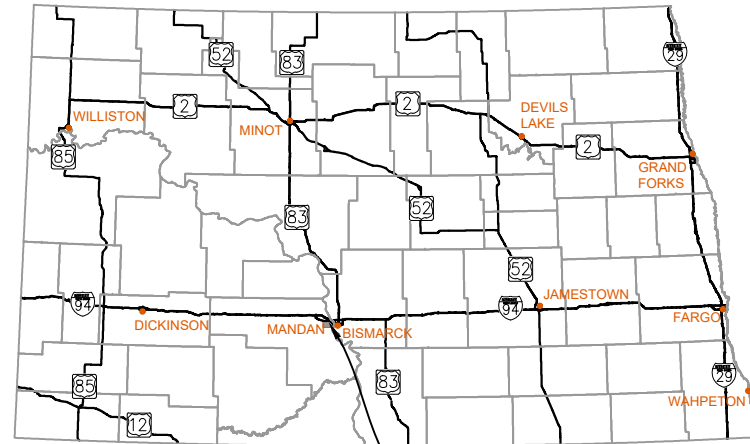
### **4.2 PAYMENT**

- A. Payment for specific bid items shall be at the unit price bid and shall include all costs for labor, equipment and materials.
- B. If a bid item is not provided for any items, it shall be considered incidental to other work.

**END OF SECTION**

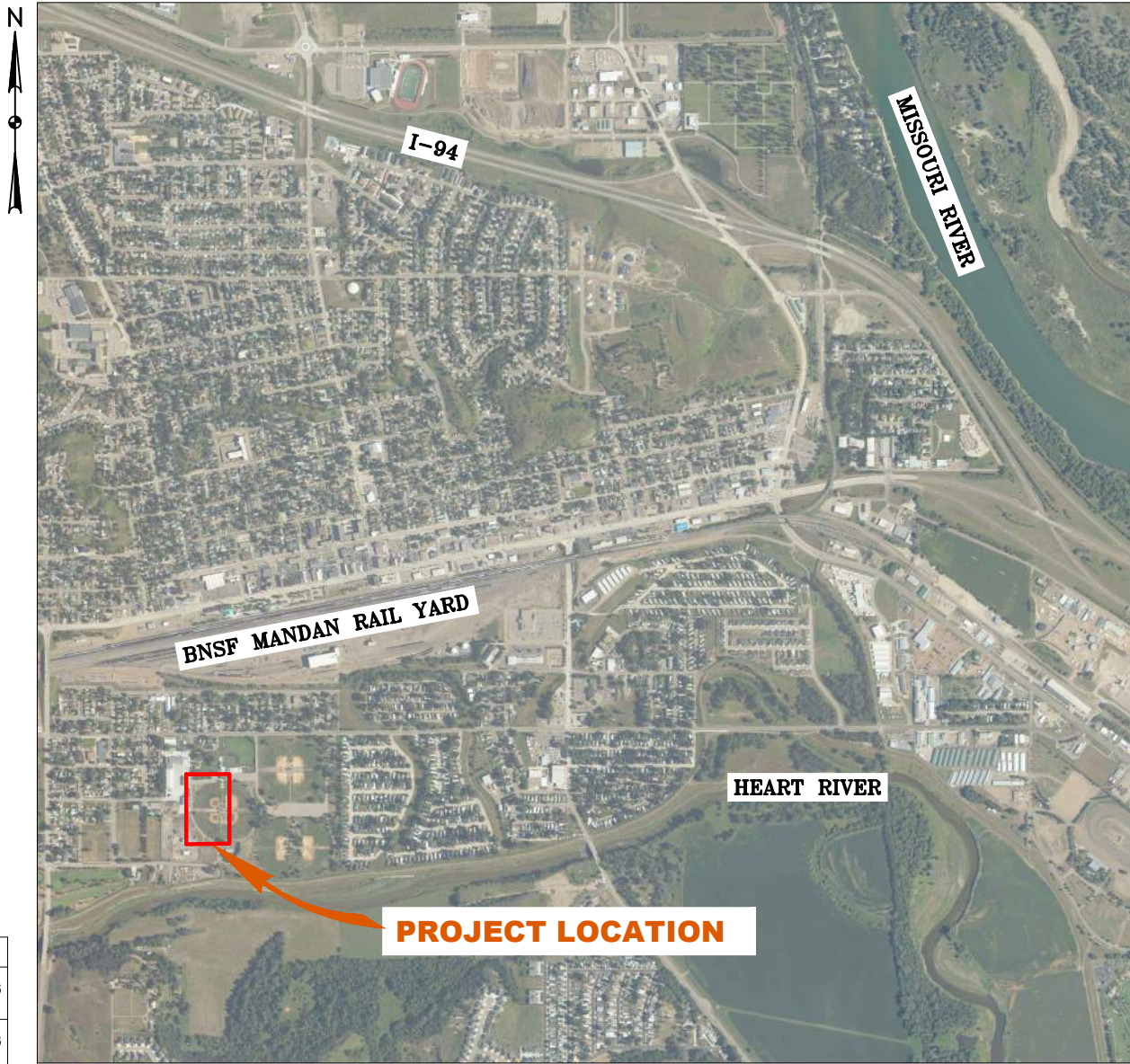
# YOUTH BASEBALL COMPLEX RENOVATION FIELDS 11 AND 12 MANDAN PARK DISTRICT MANDAN, NORTH DAKOTA

JANUARY 2026



STATE OF NORTH DAKOTA PROJECT LOCATION

MANDAN, NORTH DAKOTA



VICINITY MAP

NO SCALE

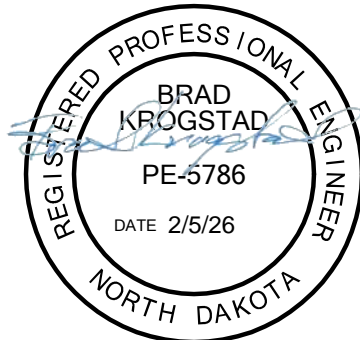
### INDEX OF SHEETS

<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.

\_\_\_\_\_ DATE: 2/5/26  
 BRAD KROGSTAD, PE-5786



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
2	C0.0, C3.1, C3.2, C5.0	ADDENDUM 2: COLLECTOR PIPE INVERTS	2/05/2026

### BASIS OF CONCEPT

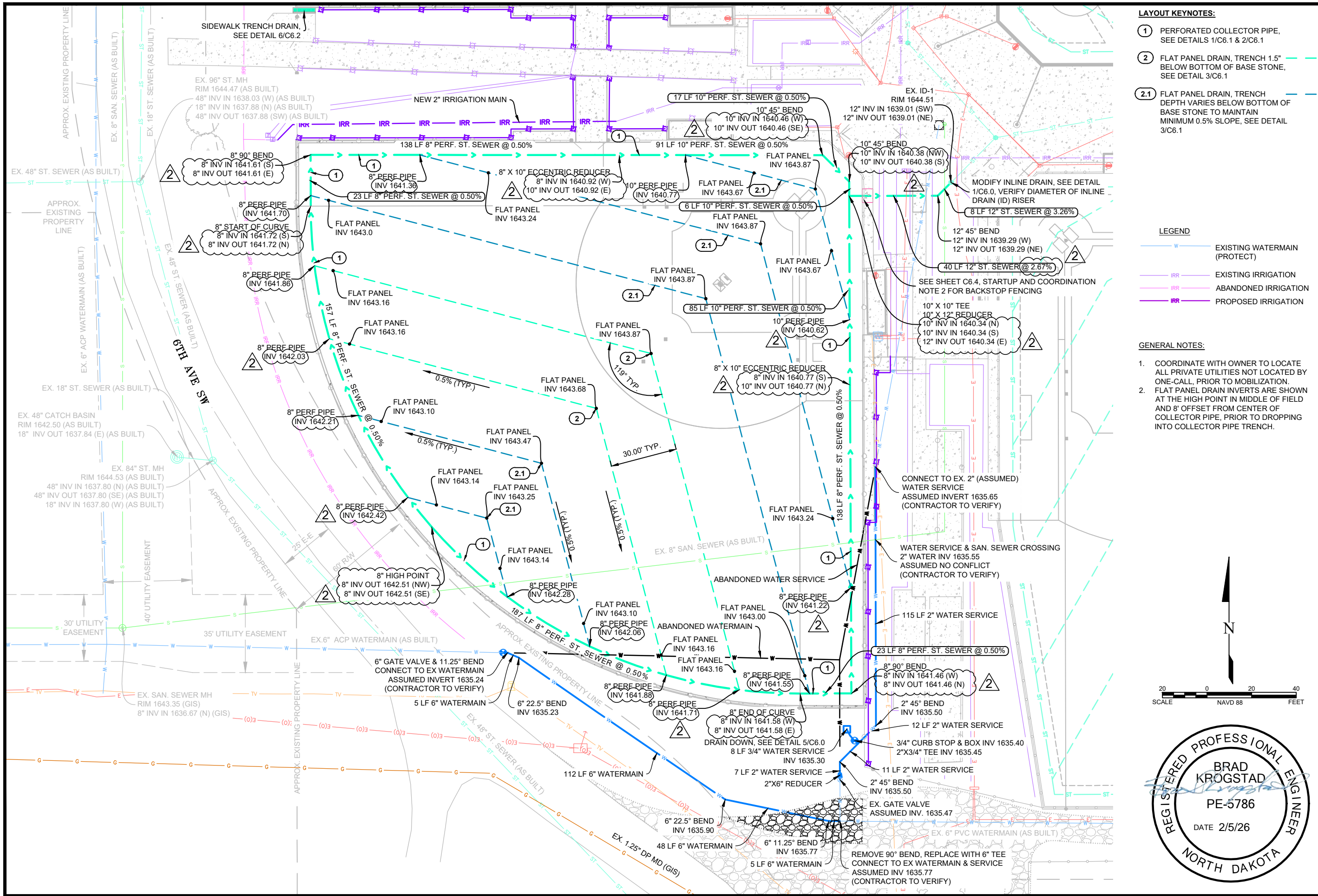
ALL CONTOURS, ELEVATIONS, AND COORDINATES FOR THE PROJECT ARE BASED ON NAD83 (2011) STATE PLANE COORDINATE SYSTEM, NORTH DAKOTA SOUTH ZONE 3302, GEOID 12B (CONUS), AND NAVD 88 (INTERNATIONAL FEET).



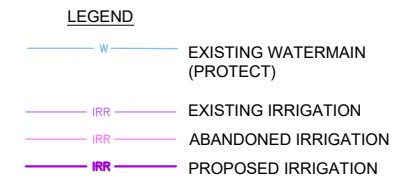
MANDAN PARKS DISTRICT 400 E BROADWAY AVE, SUITE 600  
 2600 46TH AVE SE BISMARCK, ND 58501  
 MANDAN, ND 58554 PH: 701.355.8400  
 PH: 701.751.616 www.kljeng.com  
 www.mandanparks.com



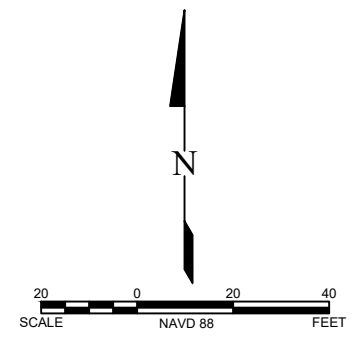
KLJ PROJECT NO. 2104-01961




- LAYOUT KEYNOTES:**
- ① PERFORATED COLLECTOR PIPE, SEE DETAILS 1/C6.1 & 2/C6.1
  - ② FLAT PANEL DRAIN, TRENCH 1.5" BELOW BOTTOM OF BASE STONE, SEE DETAIL 3/C6.1
  - 2.1 FLAT PANEL DRAIN, TRENCH DEPTH VARIES BELOW BOTTOM OF BASE STONE TO MAINTAIN MINIMUM 0.5% SLOPE, SEE DETAIL 3/C6.1



- GENERAL NOTES:**
1. COORDINATE WITH OWNER TO LOCATE ALL PRIVATE UTILITIES NOT LOCATED BY ONE-CALL, PRIOR TO MOBILIZATION.
  2. FLAT PANEL DRAIN INVERTS ARE SHOWN AT THE HIGH POINT IN MIDDLE OF FIELD AND 8' OFFSET FROM CENTER OF COLLECTOR PIPE, PRIOR TO DROPPING INTO COLLECTOR PIPE TRENCH.





REVISION	ADDENDUM 2	DATE	2/05/2026	
NO.	2	DATE	1/20/2026	

DRAFTED: JP

REVIEWED: AW

PROJECT NUMBER: 2104-01961

ISSUE DATE: 1/20/2026

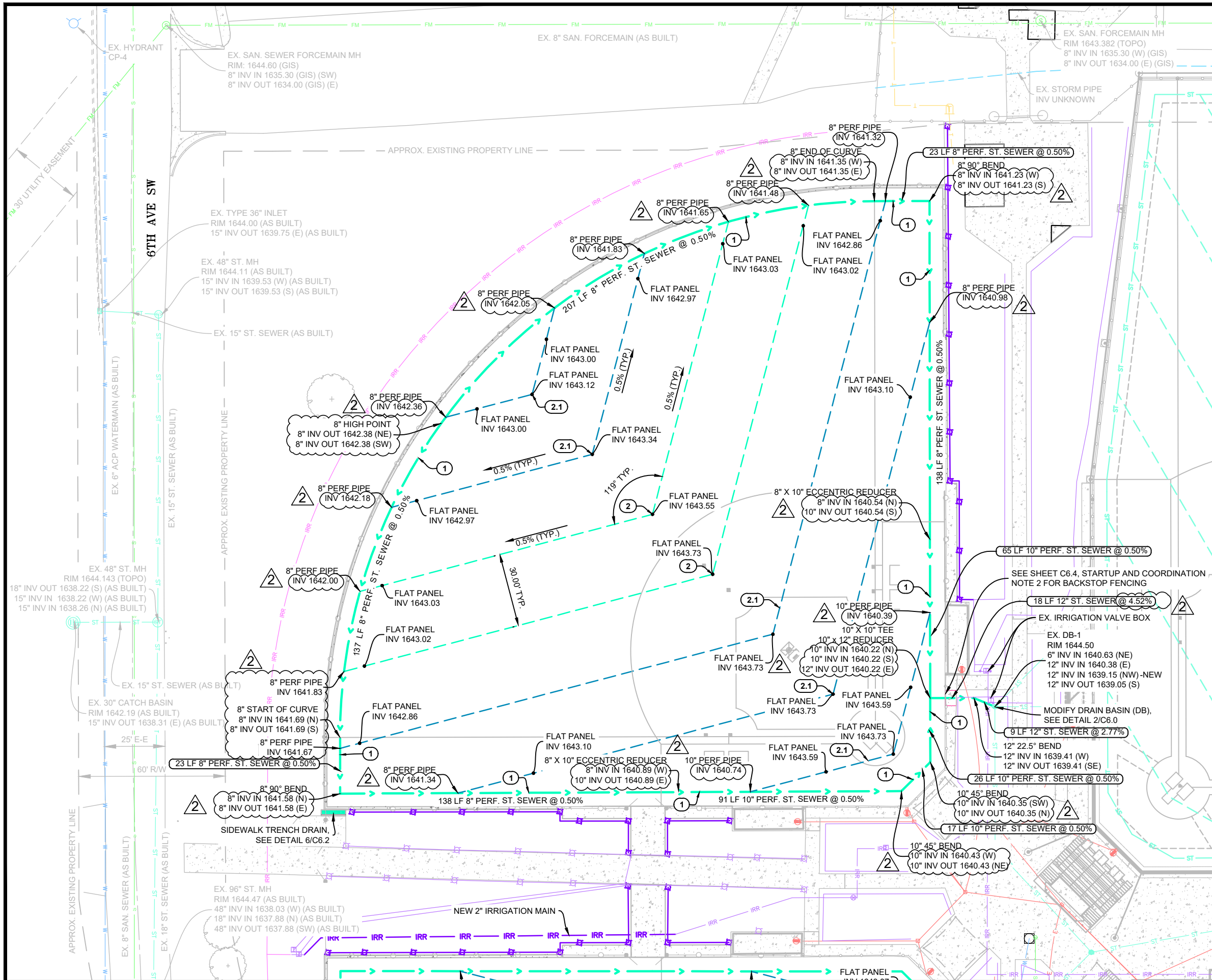
**YOUTH BASEBALL FIELDS 11 & 12**

MANDAN PARK DISTRICT

MANDAN, NORTH DAKOTA

**UTILITY PLAN - FIELD 11**

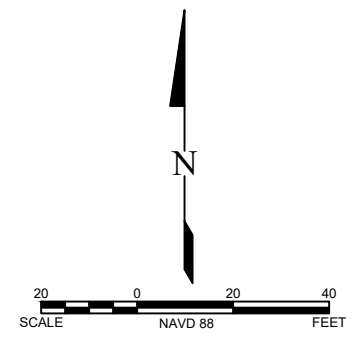
SHEET: C3.1




- LAYOUT KEYNOTES:**
- ① PERFORATED COLLECTOR PIPE, SEE DETAILS 1/C6.1 & 2/C6.1
  - ② FLAT PANEL DRAIN, TRENCH 1.5" BELOW BOTTOM OF BASE STONE, SEE DETAIL 3/C6.1
  - ②.1 FLAT PANEL DRAIN, TRENCH DEPTH VARIES BELOW BOTTOM OF BASE STONE TO MAINTAIN MINIMUM 0.5% SLOPE, SEE DETAIL 3/C6.1

- LEGEND**
- W — EXISTING WATERMAIN (PROTECT)
  - IRR — EXISTING IRRIGATION
  - IRR — ABANDONED IRRIGATION
  - IRR — PROPOSED IRRIGATION

- GENERAL NOTES:**
1. COORDINATE WITH OWNER TO LOCATE ALL PRIVATE UTILITIES NOT LOCATED BY ONE-CALL, PRIOR TO MOBILIZATION.
  2. FLAT PANEL DRAIN INVERTS ARE SHOWN AT THE HIGH POINT IN MIDDLE OF FIELD AND 8' OFFSET FROM CENTER OF COLLECTOR PIPE, PRIOR TO DROPPING INTO COLLECTOR PIPE TRENCH.





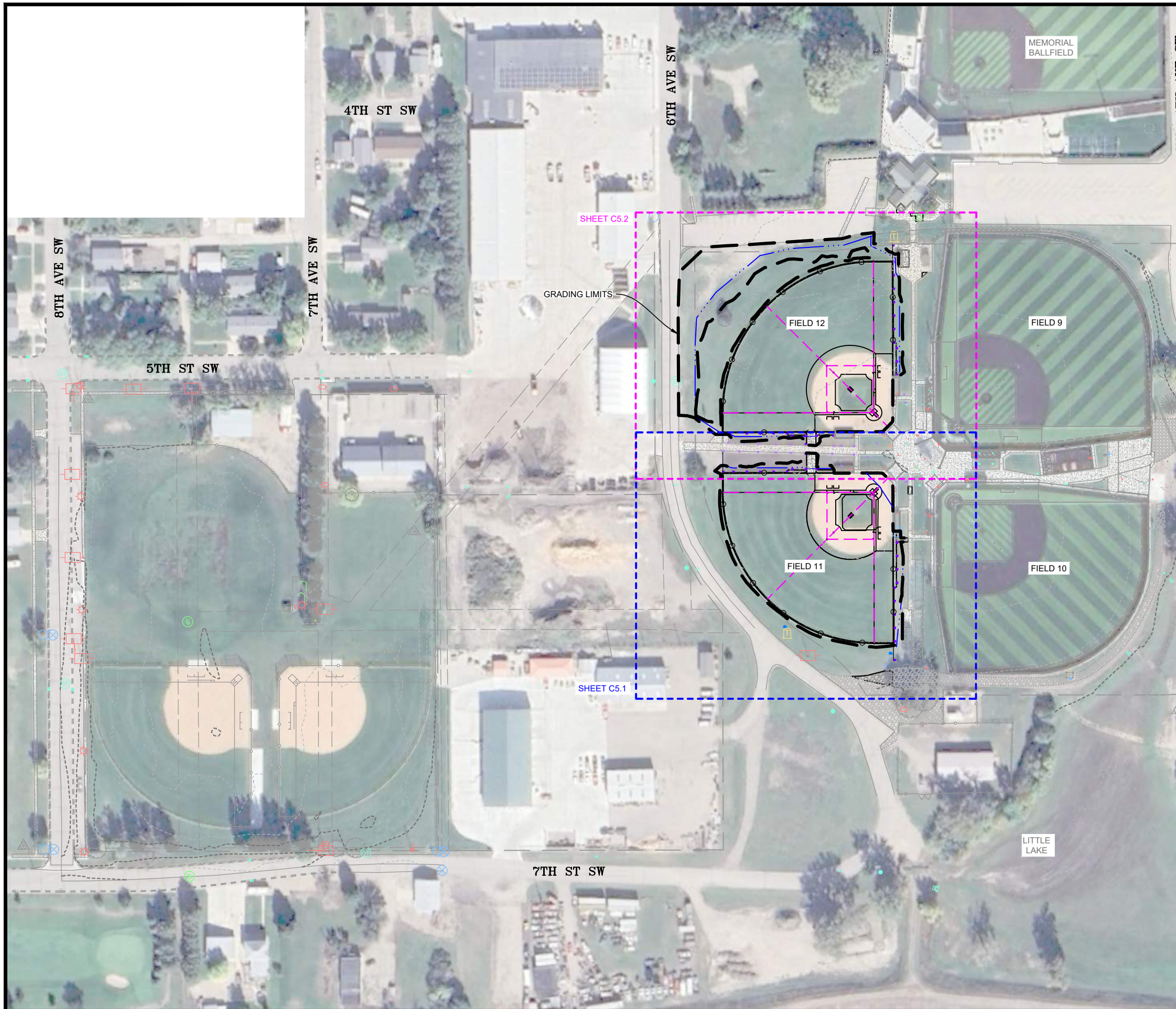
REVISION	ADDENDUM 2	DATE	2/05/2026	
NO.	2			
DRAFTED JP				
REVIEWED AW				
PROJECT NUMBER 2104-01961				
ISSUE DATE 1/20/2026				

**YOUTH BASEBALL FIELDS 11 & 12**

MANDAN PARK DISTRICT  
MANDAN, NORTH DAKOTA

**UTILITY PLAN - FIELD 12**

SHEET  
**C3.2**



**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 = 1,125 CY (EV)  
EXCAVATION OF AGRI-LIME = 242 CY (EV) (BY OWNER)

EMBANKMENT TO SUBGRADE = 1,105 CY (CV)

**TOTAL MATERIAL REQUIRED**  
1,105 CY \* (1+0.20) = 1,326 CY (EV)

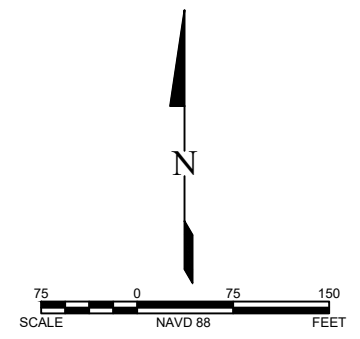
**MATERIAL BALANCE**  
1,326 CY (EV) - 1,125 CY (EV) = 201 CY (EV)\*\*


\*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	NO.	DATE	NO.	DATE	NO.	DATE
1	2/04/2026	1	2/04/2026	2	2/05/2026	1	
	ADDENDUM 1		ADDENDUM 2				
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**