



Anoka County
MINNESOTA

Respectful, Innovative, Fiscally Responsible

ANOKA COUNTY TRANSPORTATION DIVISION

1440 BUNKER LAKE BLVD NW

ANDOVER, MN 55304

763-324-3176

highwaypermits@co.anoka.mn.us

PERMIT NUMBER

23-405

RIGHT OF WAY

COMMERCIAL ACCESS

CSAH 52

APPLICATION FOR PERMIT FOR INSTALLATION OF UTILITIES OR PLACING OBSTRUCTIONS ON THE COUNTY HIGHWAY SYSTEM
ALL APPLICANTS MUST BE REGISTERED PRIOR TO PERMIT APPROVAL

APPLICANT NAME **Douglas-Kerr Underground, LLC**

CONTACT PERSON **Darren Douglas**

ADDRESS **2142 330th Ave.**

CITY **Mora**

PHONE NUMBER **3206798937**

EMAIL **darrend@douglas-kerr.com**

COMPANY OR INDIVIDUAL PERFORMING WORK **Douglas-Kerr Undeerground, LLC**

CONTACT PERSON **Darren Douglas**

EMAIL **darrend@douglas-kerr.com**

PERMIT WORK TO START **07/31/2023**

PERMIT WORK TO BE COMPLETED **11/30/2023**

DURATION OF JOB **4 Months**

ARE YOU BEING ASKED TO RELOCATE DUE TO A COUNTY PROJECT? **No**

ANOKA COUNTY PROJECT NUMBER

WORK SITE ADDRESS **95th Ave Ne / W 35W Service Dr NE**

CITY **Blaine**

METHOD OF INSTALLATION/CONSTRUCTION **Road Construction, Jacking/Boring, Sanitary Sewer Installation**

NATURE OF WORK **Reconstruction of existing sewer forcemain, and installing approx. 1800LF of new sanitary sewer piping. Installation of steel casing under 95th Ave NE via jacking/boring. Pot Holing/locating existing high pressure gas main
Per approved plan.**

SURFACE TO BE DISTURBED

SITE PLAN

If the roadway is encroached, you must attach a traffic control plan and/or reference the most current version of the Minnesota Temporary Traffic Control Field Manual.

DITCH/BLVD

GRAVEL

BITUMINOUS

CONCRETE

NONE



TC per approved plan.

DEPTH FROM SURFACE **11' to 20'**

(60" minimum under county roads)

SIZE AND KIND OF PIPE/CABLE **36" steel casing, 24" HDPE & 24" PVC**

NUMBER OF EXCAVATIONS **4+**

SIZE OF EXCAVATIONS **approx. 1800LF Long, 11-20 Feet Deep**
(Length, width, and depth)

LOCATION OF EXCAVATIONS

(Specific written descriptions of excavations - to be protected at all times and backfilled when unattended and/or overnight)

Installation of approximately 1800LF of new sanitary sewer piping via open cut excavating. Trench to be backfilled completely each night.

THIS PERMIT COVERS THE RIGHT OF WAY IN ANOKA COUNTY ONLY

ACTD reserves the right to make changes to these special conditions.



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GENERAL INFORMATION

One permit must be approved for each county road on which work will be performed prior to any work within the right of way by any utility/contractor. Emergency conditions which threaten the safety of the public and require immediate repair are exceptions to this rule. Under those circumstances, the utility/contractor is permitted to begin and/or complete the necessary repairs. The Anoka County Transportation Division (ACTD) shall be notified of emergency repairs as soon as feasible and a written permit is to be completed within two business days of occurrence.

A license-permit bond is generally required of the contractor as part of the registration process, the amount of which will be determined by the nature of the utility work.

A sketch or drawing shall accompany each permit application which will show the location of the proposed work/utility with reference to the county highway center line and right of way line. A complete set of plans is required for all sewer/water projects.

It shall be the responsibility of the applicant to determine which of the special conditions apply to each permit.

ACTD reserves the right to revoke any utility permit and halt work, if, upon inspection of any job site, the special conditions are not met, and/or a hazard exists for the applicant or public safety is threatened. **The failure to comply with the terms and conditions of any applicable Federal, State, Regional, and local laws, rules and regulations, including any provision of Anoka County's Right-of-Way Ordinance shall be cause for immediate revocation of a permit.**

The applicant shall notify ACTD immediately upon completion of project so that the ACTD can inspect the site to determine if restoration has been satisfactorily completed.

The undersigned hereby accepts the terms and conditions of this permit and the regulations of Anoka County, and agrees to fully comply therewith to the satisfaction of the ACTD. The county of Anoka, its officials, employees, and agents, shall be held harmless, by the applicant/permittee, from any demands, claims, lawsuits, or damages relating to the work described in this permit.

APPLICANT'S SIGNATURE	<small>DocuSigned by:</small> <i>Darren Douglas</i> 6FC3C2F10E214B0...	DATE	7/25/2023
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AUTHORIZATION OF PERMIT

In consideration of the applicant's agreement to comply in all respects with the regulations of the ACTD covering such operations, permission is hereby granted for the work to be done as described in the above application. Said work to be done in accordance with the general conditions listed above and the special conditions required as hereby stated. It is expressly understood that this permit is conditioned upon replacement or restoration of the county highway and its right of way to their original or to a satisfactory condition. It is further understood that this permit is issued subject to the approval of local city or township authorities having joint supervision over said street or highway.

APPROVED BY:	<small>DocuSigned by:</small> <i>Susan Burgmeier</i> C5E91FE15CD44EE...	DATE	7/26/2023
TITLE: Traffic Technician			

NOT VALID UNLESS SIGNED BY ANOKA COUNTY

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SPECIAL CONDITIONS

TRAFFIC CONTROL

- 1) Detours
 - a) Detailed detour layouts shall be submitted to the traffic engineer for approval.
 - b) No detours shall be permitted without prior approval of the Anoka county traffic engineer.
 - c) A ten day notice must be given prior to the installation of any detour.
 - d) It shall be the responsibility of the applicant to notify Anoka county central communications, local government bodies, and any affected bus companies ten days prior to any road closures/detours.
 - e) Immediately upon completion of work and/or detours, all posts, barricades, and signs shall be removed from the right of way.
- 2) Traffic control devices
 - a) All traffic control devices, barricades, flashers, etc., shall be furnished by the applicant and shall be in accordance with the most recent edition of the Minnesota manual on uniform traffic control devices and temporary traffic control zone layouts – field manual of the same manual.

CONSTRUCTION REQUIREMENTS

- 1) Open cutting of bituminous or concrete surfaced roads will be allowed only at the discretion of the county engineer.
- 2) Neither supplies nor excavation materials shall be placed on the bituminous or concrete surface at any time.
- 3) No trenches will be allowed to remain open overnight.
- 4) Materials removed from the trench shall be used as backfill insofar as they are suitable. All backfill material shall conform to MNDOT specifications for compaction. The use of heavy equipment on top of trench, slapping with backhoe bucket and/or back casting to achieve compaction is prohibited. Any additional material required to back fill to the original grade shall be furnished by the applicant at no expense to the ACTD. All the base and surface courses damaged during construction operations shall be restored to a condition equal to or better than before operations began. The applicant shall be responsible for and restore any settlement.
- 5) All culverts, ditches, shoulders, and backslopes shall be restored to their original condition unless otherwise directed by the ACTD. Shoulders which have been previously constructed or reconstructed with special materials shall be replaced in kind. Restoration of signs, guardrails, guard posts, etc., are the sole responsibility of the applicant and shall be restored to their original condition.
- 6) All roadway maintenance required within the limits of the utility project that is related to the applicant's activities shall be the sole responsibility of the applicant for one year after completion of the project. Upon completion of the restoration work, the applicant shall request a final inspection by the ACTD. The ACTD's approved completion date shall be the starting date of the applicant's one-year responsibility.

HORIZONTAL BORING AND JACKING

- 1) All hard surface roadways shall be jacked or bored.
- 2) All crossings of Anoka County maintained roadbeds, shall be made by boring inside a casing or carrier pipe, or by jacking unless otherwise directed by the Anoka County Engineer. The auger shall lead the casing or carrier pipe by at least six inches whenever possible and never lead the carrier pipe by more than one inch.
- 3) The use of pneumatic devices to facilitate the roadbed crossings will be allowed in most cases with prior approval. In the event approval is not granted and applicant uses a pneumatic device to cross a roadbed and encounters an obstruction and/or unstable subbase material which makes forward or reverse motion of pneumatic device impossible, said pneumatic device then becomes part of the roadway subbase and permission to excavate to retrieve device will not be granted.
- 4) If a pneumatic device is used for the work permitted herein, the installation must be kept to a minimum of four feet below the surface of the roadway if the pneumatic device is less than two inches in diameter, and a minimum of five feet below the surface of the roadway if the pneumatic device is two inches in diameter or larger.

BITUMINOUS RESTORATION

- 1) The locations and dimensions of all openings to be made in the bituminous surface shall be approved by the ACTD prior to any cutting or any surface opening operations.
- 2) All openings in bituminous surfaces shall be cut in a straight line with the sides smooth and vertical. No ragged edges will be permitted. Cutting shall be done with a concrete saw.
- 3) All necessary dust control operations shall be carried out by the applicant at no expense to Anoka County.
- 4) The minimum requirement for subgrade replacement shall be the upper twelve inches of material and shall meet MNDOT specifications for class five placed in six inch layers compacted to one hundred percent of optimum density.
- 5) All manhole casings, gate valves, and other utility structures shall be set one quarter inch below the top of the finished surface.
- 6) Bituminous tack coat materials and application thereof shall conform to MNDOT specification 2357.
- 7) All bituminous surfacing shall be replaced as soon as practicable after the base construction. All bituminous surfacing shall be machine laid. Any exceptions must be approved by the ACTD. Bituminous surfacing shall be replaced to original pavement depth or to a minimum of six inches of bituminous mixture (2360), whichever is greater. Bituminous mixtures must be placed in lifts not exceeding three inches in thickness for base and binder courses and not exceeding two inches for the wear course.
- 8) All surface restoration regardless of size shall conform to existing grades.
- 9) Any unnecessary or negligent damage to bituminous surface in conjunction with the installation and/or repair of a utility shall be cut out and replaced in kind as directed by the ACTD.

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CONCRETE RESTORATION

- 1) Curb and gutter, sidewalks, and driveways shall be restored in accordance with MNDOT specifications 2531 and 2521.

UTILITY LINES

- 1) There shall be only a single pole line on the county right of way on either side of the center line thereof.
- 2) Exact locations of longitudinal installations on county highways shall be located as directed by the ACTD.

SECTION CORNER MONUMENTS

- 1) Utility locations shall not interfere with the location of any section, quarter, witness, or right of way monuments. For assistance in locations, contact the Anoka County Surveyor's Office.
- 2) The applicant shall be responsible for replacement of any existing property irons disturbed during construction.
- 3) The applicant shall notify the Anoka County Surveyor's Office three working days in advance of any anticipated disturbance of any section, quarter, witness, or right of way monuments.
- 4) Any monument disturbed during the course of construction, shall be reset by the Anoka County Surveyor's Office at the expense of the applicant.

ATTACHING TO BRIDGES/STRUCTURES

- 1) No utility is permitted to be hung from, or otherwise attached to, any bridge or structure without having detailed plans approved by the Anoka County Engineer. These plans are to show approaches to the structure, method of installation, type, and dimension of housing for the utility.

ADDITIONAL PROVISIONS

- 1) All subcontractors, installers, and crew shall possess a copy of all documents in relation to the approved permit prior to the commencement of work and be kept on site. This includes, but it not limited to the following:
 - a) Approved permit
 - b) Any/all traffic control plans and/or layouts
- 2) Shall notify Andrea Schmid at 763-324-3128 or andrea.schmid@co.anoka.mn.us
 - a) At least 36 hours prior to the commencement of work
 - b) When there is any change to traffic control set up (ex: stage 1 to stage 2)
 - c) When work is complete - including restorations
- 3) No work during inclement weather or when plows are out in any capacity
- 4) All traffic control shall be in accordance with the most current version of the MnDOT Temporary Traffic Control Field Manual
- 5) Pits/excavations are to be protected at all times and then backfilled when unattended and/or overnight

INITIAL
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Anoka County

TRANSPORTATION DIVISION

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Highway

Transit

Surveyor

GIS

Fleet

Joe MacPherson, P.E.
Chief Officer, Transportation, County Engineer

Jerry Auge, P.E.
Department Director, Assistant County Engineer

EXCAVATOR AND OPERATOR NOTICE

This notice is for all excavators and operators applying for permits involving excavations your obligations to comply with Minnesota State Statutes 216D that is attached to this notice.

This notice is a requirement of State Statute 216D.02; Notice to Excavators and Operators.

Our Passion Is Your Safe Way Home

1440 Bunker Lake Boulevard N.W. ▲ Andover, MN 55304-4005
Office: 763-324-3100 ▲ Fax: 763-324-3020 ▲ www.anokacounty.us/highway

Affirmative Action / Equal Opportunity Employer

216D.03 NOTIFICATION CENTER.

Subdivision 1. **Participation.** An operator shall participate in and share in the costs of one statewide notification center operated by a vendor selected under subdivision 2.

Subd. 2. **Establishment of notification center; rules.** (a) The notification center services must be provided by a nonprofit corporation approved in writing by the commissioner. The nonprofit corporation must be governed by a board of directors of up to 20 members, one of whom is the director of the Office of Pipeline Safety. The other board members must represent and be elected by operators, excavators, and other persons eligible to participate in the center. In deciding to approve a nonprofit corporation, the commissioner shall consider whether it meets the requirements of this paragraph and whether it demonstrates that it has the ability to contract for and implement the notification center service.

(b) The commissioner shall adopt rules:

(1) establishing a notification process and competitive bidding procedure for selecting a vendor to provide the notification service;

(2) governing the operating procedures and technology needed for a statewide notification center; and

(3) setting forth the method for assessing the cost of the service among operators.

(c) The commissioner shall select a vendor to provide the notification center service. The commissioner may advertise for bids as provided in section 16C.06, subdivisions 1 and 2, and base the selection of a vendor on best value as provided in section 16C.06, subdivision 6. The commissioner shall select and contract with the vendor to provide the notification center service, but all costs of the center must be paid by the operators. The commissioner may at any time appoint a task force to advise on the renewal of the contract or any other matter involving the center's operations.

(d) An operator may submit a bid and be selected to contract to provide the notification center service under paragraph (a) or (c). The commissioner shall annually review the services provided by the nonprofit corporation approved under paragraph (a) or the vendor selected under paragraph (c).

Subd. 3. **Cooperation with local government.** In establishing operating procedures and technology for the statewide notification center, the board of directors or the commissioner must work in cooperation with the League of Minnesota Cities, the Association of Minnesota Counties, and the Township Officers' Association. The purpose of this cooperation is to maximize the participation of local governmental units that issue permits for activities involving excavation to assure that excavators receive notice of and comply with the requirements of sections 216D.01 to 216D.07.

Subd. 4. **Notice to local government.** The notification center shall provide local governmental units with a master list, by county, of the operators in the county who are participants in the notification center, and the telephone number and mailing address of the notification center.

History: 1987 c 353 s 9; 1997 c 187 art 1 s 15; 1998 c 386 art 2 s 69

216D.04 EXCAVATION; LAND SURVEY.

Subdivision 1. **Notice required; contents.** (a) Except in an emergency, an excavator shall and a land surveyor may contact the notification center and provide notice at least 48 hours, excluding Saturdays, Sundays, and holidays and not more than 14 calendar days before beginning any excavation or boundary survey. An excavation or boundary survey begins, for purposes of this requirement, the first time excavation or a boundary survey occurs in an area that was not previously identified by the excavator or land surveyor in the notice.

(b) The notice may be oral or written, and must contain the following information:

- (1) the name of the individual providing the notice;
- (2) the precise location of the proposed area of excavation or survey;
- (3) the name, address, and telephone number of the individual or individual's company;
- (4) the field telephone number, if one is available;
- (5) the type and extent of the activity;
- (6) whether or not the discharge of explosives is anticipated;
- (7) the date and time when the excavation or survey is to commence; and
- (8) the estimated duration of the activity.

Subd. 1a. **Plans for excavation.** (a) Any person, prior to soliciting bids or entering into a contract for excavation, shall provide a proposed notice to the notification center to obtain from the affected operators of underground facilities the type, size, and general location of underground facilities. Affected operators shall provide the information within 15 working days. An operator who provides information to a person who is not a unit of government may indicate any portions of the information which are proprietary and may require the person to provide appropriate confidentiality protection. The information obtained from affected operators must be submitted on the final drawing used for the bid or contract and must depict the utility quality level of that information. This information must be updated not more than 90 days before completion of the final drawing used for the bid or contract.

(b) This subdivision does not apply to bids and contracts for:

- (1) routine maintenance of underground facilities or installation, maintenance, or repair of service lines;
- (2) excavation for operators of underground facilities performed on a unit of work or similar basis; or
- (3) excavation for home construction and projects by home owners.

(c) A person required by this section to show existing underground facilities on its drawings shall conduct one or more preliminary design meetings during the design phase to communicate the project design and coordinate utility relocation. Affected facility operators shall attend these meetings or make other arrangements to provide information.

(d) A person required by this section to show existing underground facilities on its drawings shall conduct one or more preconstruction meetings to communicate the project design and coordinate utility relocation. Affected facility operators and contractors shall attend these meetings or make other arrangements to provide information.

(e) This subdivision does not affect the obligation to provide a notice of excavation as required under subdivision 1.

Subd. 2. Duties of notification center; regarding notice. The notification center shall assign an inquiry identification number to each notice and retain a record of all notices received for at least six years. The center shall immediately transmit the information contained in a notice to every operator that has an underground facility in the area of the proposed excavation or boundary survey.

Subd. 3. Locating underground facility; operator. (a) Prior to the excavation start time on the notice, an operator shall locate and mark or otherwise provide the approximate horizontal location of the underground facilities of the operator and provide readily available information regarding the operator's abandoned and out-of-service underground facilities as shown on maps, drawings, diagrams, or other records used in the operator's normal course of business, without cost to the excavator. The excavator shall determine the precise location of the underground facility, without damage, before excavating within two feet of the marked location of the underground facility.

(b) Within 96 hours or the time specified in the notice, whichever is later, after receiving a notice for boundary survey from the notification center, excluding Saturdays, Sundays, and holidays, unless otherwise agreed to between the land surveyor and operator, an operator shall locate and mark or otherwise provide the approximate horizontal location of the underground facilities of the operator, without cost to the land surveyor.

(c) For the purpose of this section, the approximate horizontal location of the underground facilities is a strip of land two feet on either side of the underground facilities.

(d) Markers used to designate the approximate location of underground facilities must follow the current color code standard used by the American Public Works Association.

(e) If the operator cannot complete marking of the excavation or boundary survey area before the excavation or boundary survey start time stated in the notice, the operator shall promptly contact the excavator or land surveyor.

(f) After December 31, 1998, operators shall maintain maps, drawings, diagrams, or other records of any underground facility abandoned or out-of-service after December 31, 1998.

(g) An operator or other person providing information pursuant to this subdivision is not responsible to any person, for any costs, claims, or damages for information provided in good faith regarding abandoned, out-of-service, or private or customer-owned underground facilities.

Subd. 4. Locating underground facility; excavator or land surveyor. (a) The excavator or land surveyor shall determine the precise location of the underground facility, without damage, before excavating within two feet on either side of the marked location of the underground facility.

(b) If the excavator or land surveyor cancels the excavation or boundary survey, the excavator or land surveyor shall cancel the notice through the notification center.

(c) The notice is valid for 14 calendar days from the start time stated on the notice. If the activity will continue after the expiration time, then the person responsible for the activity shall serve an additional notice at least 48 hours, excluding Saturdays, Sundays, and holidays, before the expiration time of the original notice, unless the excavator makes arrangements with the operators affected to periodically verify or refresh the marks, in which case the notice is valid for six months from the start time stated on the notice.

(d) The excavator is responsible for reasonably protecting and preserving the marks until no longer required for proper and safe excavation near the underground facility. If the excavator has reason to believe the marks are obliterated, obscured, missing, or incorrect, the excavator shall notify the facility operator or notification center in order to have an operator verify or refresh the marks.

History: *1987 c 353 s 10; 1992 c 493 s 5; 1993 c 341 art 1 s 21; 1997 c 196 s 1; 1998 c 348 s 1-3; 2004 c 163 s 2-6*

216D.05 PRECAUTIONS TO AVOID DAMAGE.

An excavator shall:

- (1) plan the excavation to avoid damage to and minimize interference with underground facilities in and near the construction area;
- (2) use white markings for proposed excavations except where it can be shown that it is not practical;
- (3) maintain a clearance between an underground facility and the cutting edge or point of any mechanized equipment, considering the known limit of control of the cutting edge or point to avoid damage to the facility;
- (4) provide support for underground facilities in and near the construction area, including during backfill operations, to protect the facilities; and
- (5) conduct the excavation in a careful and prudent manner.

History: *1987 c 353 s 11; 1998 c 348 s 4; 2004 c 163 s 7*

216D.06 DAMAGE TO FACILITY.

Subdivision 1. **Notice; repair.** (a) If any damage occurs to an underground facility or its protective covering, the excavator shall notify the operator promptly. When the operator receives a damage notice, the operator shall promptly dispatch personnel to the damage area to investigate. If the damage results in the escape of any flammable, toxic, or corrosive gas or liquid or endangers life, health, or property, the excavator responsible shall immediately notify the operator and the 911 public safety answering point, as defined in section 403.02, subdivision 19, and take immediate action to protect the public and property. The excavator shall also attempt to minimize the hazard until arrival of the operator's personnel or until emergency responders have arrived and completed their assessment. The 911 public safety answering point shall maintain a response plan for notifications generated by this section.

(b) An excavator shall delay backfilling in the immediate area of the damaged underground facilities until the damage has been investigated by the operator, unless the operator authorizes otherwise. The repair of damage must be performed by the operator or by qualified personnel authorized by the operator.

(c) An excavator who knowingly damages an underground facility, and who does not notify the operator as soon as reasonably possible or who backfills in violation of paragraph (b), is guilty of a misdemeanor.

Subd. 2. **Cost reimbursement.** (a) If an excavator damages an underground facility, the excavator shall reimburse the operator for the cost of necessary repairs, and for a pipeline the cost of the product that was being carried in the pipeline and was lost as a direct result of the damage.

(b) Reimbursement is not required if the damage to the underground facility was caused by the sole negligence of the operator or the operator failed to comply with section 216D.04, subdivision 3.

Subd. 3. **Prima facie evidence of negligence.** It is prima facie evidence of the excavator's negligence in a civil court action if damage to the underground facilities of an operator resulted from excavation, and the excavator failed to give an excavation notice under section 216D.04 or provide support as required by section 216D.05.

History: 1987 c 353 s 12; 1999 c 43 s 1

216D.07 EFFECT ON LOCAL ORDINANCES.

(a) Sections 216D.01 to 216D.07 do not affect or impair local ordinances, charters, or other provisions of law requiring permits to be obtained before excavating.

(b) A person with a permit for excavation from the state or a public agency is subject to sections 216D.01 to 216D.07. The state or public agency that issued a permit for excavation is not liable for the actions of an excavator who fails to comply with sections 216D.01 to 216D.07.

History: *1987 c 353 s 13*

CHAPTER 7560
OFFICE OF PIPELINE SAFETY
EXCAVATION NOTICE SYSTEM

- 7560.0100 DEFINITIONS.
- 7560.0125 ABANDONED AND OUT-OF-SERVICE FACILITIES.
- 7560.0150 PUBLIC RIGHT-OF-WAY MAPPING AND INSTALLATION.
- 7560.0225 EXCAVATOR RESPONSIBILITIES REGARDING A LOCATE.
- 7560.0250 LOCATE STANDARDS.
- 7560.0300 OPERATOR PARTICIPATES AND SHARES COSTS.
- 7560.0325 EMERGENCY EXCAVATION NOTICES.
- 7560.0350 EXCAVATION NOTICE REQUESTING MEET.
- 7560.0375 LOCATING A SERVICE LATERAL.
- 7560.0400 CITATIONS.
- 7560.0500 RESPONSE OPTIONS.
- 7560.0600 DIRECTOR REVIEW.
- 7560.0700 CONSENT ORDER.
- 7560.0800 CIVIL PENALTIES.

7560.0100 DEFINITIONS.

Subpart 1. **Scope.** The terms used in this chapter have the meanings given them. Terms not defined in this part have the meanings given them in Minnesota Statutes, section 216D.01.

Subp. 1a. **Abandoned facility.** "Abandoned facility" means an underground facility that is no longer in service and is physically disconnected from a portion of the operating facility that is in use or still carries service. An abandoned facility has been deemed abandoned by the operator.

Subp. 2. **Director.** "Director" means the director of the Office of Pipeline Safety of the Minnesota Department of Public Safety.

Subp. 3. **Good cause to believe.** "Good cause to believe" means grounds put forth in good faith that are not arbitrary, irrational, unreasonable, or irrelevant and that are based on at least one of the following sources:

- A. information from a person;
- B. facts supplied by the notification center defined in Minnesota Statutes, section 216D.01, subdivision 8;
- C. facts of which the director or an agent of the director has personal knowledge; and
- D. information provided by excavators or operators.

Subp. 4. **Locate.** "Locate" means an operator's markings of an underground facility.

Subp. 5. [Renumbered as subp 8]

Subp. 5a. [Renumbered as subp 9]

Subp. 6. [Renumbered as subp 11]

7560.0125 EXCAVATION NOTICE SYSTEM

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Subp. 7. **Meet.** When used as a noun in this chapter, "meet" refers to a meeting at the site of proposed excavation requested at the time of notice by the excavator with all affected underground facility operators to further clarify the precise geographic location of excavation, schedule locating, propose future contacts, and share other information concerning the excavation and facilities.

Subp. 8. **Office.** "Office" means the Office of Pipeline Safety of the Minnesota Department of Public Safety.

Subp. 9. **Out-of-service facility.** "Out-of-service facility" means an underground facility that is no longer maintained and is not intended for future use, but has not been deemed abandoned. An out-of-service facility may still be connected to a portion of the operating facility that is in use or still carries service.

Subp. 10. **Public right-of-way.** "Public right-of-way" means the area on, below, or above a public roadway, highway, street, cartway, bicycle lane, and sidewalk in which a government unit has an interest, including other rights-of-way dedicated for travel purposes and utility easements of government units.

Subp. 11. **Remuneration.** "Remuneration" means direct or indirect compensation or consideration paid to the person or the person's agent, employer, employee, subcontractor, or contractor. A person who excavates as part of the person's duties as an employee, employer, agent, subcontractor, or contractor is considered to be acting for remuneration.

Subp. 12. **Service lateral.** "Service lateral" means an underground facility that is used to transmit, distribute, or furnish gas, electricity, communications, or water from a common source to an end-use customer. A service lateral is also an underground facility that is used in the removal of wastewater from a customer's premises.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.60; 299F.641; 299J.04*

History: *16 SR 135; 24 SR 448; 29 SR 1503*

Published Electronically: *July 20, 2005*

7560.0125 ABANDONED AND OUT-OF-SERVICE FACILITIES.

Subpart 1. **Duty of operators to provide readily available information.** Operators shall provide readily available information, as shown on maps, drawings, diagrams, or other records used in the normal course of business, on the approximate location of abandoned and out-of-service facilities to an excavator by the excavation date and time noted on the excavation or location notice unless otherwise agreed between the excavator and the operator. An operator fulfills an obligation to provide information on these facilities by doing one or more of the following:

A. locating and marking the approximate location of the facility according to the current color code standard used by the American Public Works Association, as required in Minnesota Statutes, section 216D.04, subdivision 3, with an abandoned or out-of-service facility identified by an uppercase A surrounded by a circle;

B. providing informational flags at the area of proposed excavation;

C. communicating information verbally; or

D. providing copies of maps, diagrams, or records.

Subp. 2. **Duty to notify operator.** An excavator shall notify the operator:

A. before moving, removing, or otherwise altering a facility that is thought to be abandoned or out of service; or

B. if damage to the facility occurs, pursuant to Minnesota Statutes, section 216D.01, subdivision 2.

Subp. 3. **Verification of abandoned or out-of-service facility.** Upon receipt of notification by an excavator pursuant to subpart 2, an operator shall verify that an underground facility is abandoned or out of service, by either reference to installation records, testing, or other comparable standard of verification, before an excavator is allowed to move, remove, or otherwise alter an underground facility.

Subp. 4. **Liability.** An operator providing information pursuant to Minnesota Statutes, section 216D.04, subdivision 3, is not responsible to any person for any costs, claims, or damages for information provided in good faith regarding abandoned and out-of-service underground facilities.

Statutory Authority: *MS s 14.06; 216D.08; 299J.04; 299F.60*

History: *24 SR 448*

Published Electronically: *July 20, 2005*

7560.0150 PUBLIC RIGHT-OF-WAY MAPPING AND INSTALLATION.

Subpart 1. **Duty of operator to map.** After December 31, 2005, an operator shall maintain a map, a diagram, a drawing, or geospatial information regarding the location of its underground facility within a public right-of-way installed after that date.

Subp. 2. **Duty to install locating wire.** After December 31, 2005, an operator shall install a locating wire or have an equally effective means of marking the location of each nonconductive underground facility within a public right-of-way installed after that date. This requirement does not apply when making minor repairs to an existing nonconductive facility. As applied to this chapter, "minor repairs" means repairs to or partial replacement of portions of existing service laterals located within a public right-of-way for purposes of routine maintenance and upkeep.

Statutory Authority: *MS s 299J.04*

History: *29 SR 1503*

Published Electronically: *July 20, 2005*

7560.0200 [Repealed, 24 SR 448]

Published Electronically: *July 20, 2005*

7560.0225 EXCAVATOR RESPONSIBILITIES REGARDING A LOCATE.

Subpart 1. [Repealed, 29 SR 1503]

Subp. 2. **Responsibility to protect and preserve.** The excavator is responsible for reasonably protecting and preserving a locate until no longer required for proper and safe excavation near the underground facility. If the excavator has reason to believe a locate is obliterated, obscured, missing, or incorrect, the excavator shall notify the facility operator or notification center in order to have an operator verify, refresh, or re-mark the locate.

7560.0250 EXCAVATION NOTICE SYSTEM

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Subp. 3. **Use of locate.** A locate is valid for 14 days from the excavation commencement time stated on the excavation or location notice, unless the excavator has made previous arrangements with the operators affected to periodically verify, refresh, or re-mark the locate.

Statutory Authority: *MS s 14.06; 216D.08; 299J.04; 299F.60*

History: *24 SR 448; 29 SR 1503*

Published Electronically: *July 20, 2005*

7560.0250 LOCATE STANDARDS.

Subpart 1. **Facility locate.** Unless otherwise agreed to between the excavator and operator, an operator shall locate an underground facility using stakes, flags, paint, or other suitable materials in varying combinations dependent upon the surface. The locate must be in sufficient detail to clearly identify the approximate route of the underground facility. The locate must also include:

- A. name, abbreviation, or logo of the operator when more than one operator listed on the notice uses the same color markings;
- B. width of the underground facility if it is greater than eight inches; and
- C. number of underground facilities if greater than one.

Subp. 2. **Operator duties in no conflict situation.** After December 31, 2005, an operator who receives notice and determines that an underground facility is not in conflict with the proposed excavation shall complete one or more of the following:

- A. mark the area "NO" followed by the operator's name, abbreviation, or logo in the color code of the underground facility not in conflict;
- B. place a clear plastic flag at the area that:
 - (1) states "N/C" or "NO CONFLICT" in lettering matching the color code of the underground facility that is not in conflict; and
 - (2) includes the operator's name, abbreviation, or logo, the date, a contact telephone number, and the ticket number; or
- C. contact the notification center through procedures required by the notification center and indicate that there are no underground facilities in conflict with the proposed excavation and that no markings or flags were left at the proposed excavation site.

Subp. 3. **Placement of flags or markings.** If using N/C (no conflict) flags or markings pursuant to subpart 2, an operator shall place the flags or markings in a location that can be readily observed by an excavator. When an area of proposed excavation is delineated by the use of white markings, an operator shall place the N/C flags or markings within, or as near as practicable to, the delineated area.

Subp. 4. **Duties of notification center.** After December 31, 2005, the notification center shall make the information received under subpart 2 available to the excavator before the start date and time on the notice. The notification center may fulfill this requirement by making the information accessible through one or more Internet addresses, by transmitting the information to a continuously working facsimile machine maintained by the excavator, or by other methodology developed by the notification center. The notification center shall make available the information received by operators pursuant to this section through

an electronic means. The notification center is not required by this subpart to contact an excavator verbally via telephone.

Statutory Authority: *MS s 299J.04*

History: *29 SR 1503*

Published Electronically: *July 20, 2005*

7560.0300 OPERATOR PARTICIPATES AND SHARES COSTS.

An operator shall participate in and share the costs of the one call excavation notice system by:

- A. submitting the information required by the notification center to allow the center to notify the operator of excavation activity;
- B. updating the information provided to the notification center on a timely basis;
- C. installing and paying for equipment reasonably requested by the notification center to facilitate receipt of notice of excavation from the center;
- D. paying the costs charged by the notification center on a timely basis; and
- E. receiving and responding to excavation notices, including emergency notices, as required by Minnesota Statutes, chapter 216D.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.641*

History: *16 SR 135*

Published Electronically: *July 20, 2005*

7560.0325 EMERGENCY EXCAVATION NOTICES.

Subpart 1. **Duty of excavator to provide notice.** An excavator shall provide notice to the notification center before commencing an emergency excavation, unless subpart 2 applies. All emergency notices, regardless whether made prior to excavation, must be verbal or in a manner accepted by the notification center. In addition to the information required by the notification center, the notice must also contain:

- A. a description of the situation requiring the emergency excavation;
- B. the precise location of the proposed area of the emergency excavation;
- C. at least one continuously staffed telephone number where the excavator can be contacted by the operator throughout the emergency; and
- D. the excavation start date and time if the need for excavation is not immediate.

Subp. 2. **Excavating before notice.** If an emergency is such that providing notice or waiting for an operator would result in an undue risk to life, health, or significant loss of property, the excavator may excavate without providing prior notice or waiting for an operator to mark an underground facility. In this situation, the excavator shall provide notice as soon as practicable and take all reasonable precautions to avoid or minimize damage. Excavation prior to notice under this subpart does not relieve an excavator from any responsibility for damage to an underground facility pursuant to Minnesota Statutes, section 216D.06.

Subp. 3. **Emergency notice requesting immediate response.** Upon receiving an emergency excavation notice requesting an immediate response, an operator shall:

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A. attempt to contact the excavator within one hour at the telephone number provided in subpart 1, item C, to provide any information concerning facilities at or near the area of excavation including an anticipated response time; and

B. locate and mark the underground facility within three hours of notice unless:

- (1) otherwise agreed between the parties;
- (2) the operator notifies the excavator that not locating does not present an immediate danger to life or health, or a significant loss of property; or
- (3) there is an event or situation that cannot be reasonably anticipated or controlled by the operator.

Subp. 4. **Emergency notice requesting scheduled response.** Upon receiving an emergency excavation notice that does not require an immediate response, and before the scheduled excavation start date and time, an operator shall:

A. locate and mark the underground facility, unless otherwise agreed between the parties; or

B. notify the excavator at the telephone number provided in subpart 1, item C, that there is not an underground facility within the area of proposed excavation.

For purposes of this subpart, a requested start time of three hours or less from the time notice is provided to the center is considered an emergency notice requesting immediate response under subpart 3.

Statutory Authority: *MS s 299J.04*

History: *29 SR 1503*

Published Electronically: *July 20, 2005*

7560.0350 EXCAVATION NOTICE REQUESTING MEET.

Subpart 1. **Excavator duties.** When requesting a meet through the notification center, an excavator must provide at least one contact name and telephone number to assist in facilitating the meet. An excavator shall contact the notification center to cancel or reschedule the meet and the notification center shall relay this information to the affected operators. When a meet is requested, an excavator's notice must include the entire geographic area of the proposed excavation and the specific location of the meet. This part does not relieve an excavator from the duty to provide a precise geographic location of the proposed area of excavation, or to use white markings except where it can be shown that to do so is not practical.

Subp. 2. **Operator duties.** When a meet is requested, an affected operator shall make a reasonable effort to attend the meet at the proposed date and time, or contact the excavator before the meet and reschedule for a mutually agreed date and time.

Subp. 3. **Excavation start date and time.** When a meet is requested, the meet date and time must be at least 48 hours after notice is provided, excluding Saturdays, Sundays, and holidays, and the excavation start date and time must be at least 24 hours after the proposed meet date and time specified on the notice, excluding Saturdays, Sundays, and holidays. This subpart does not apply if these matters are provided for in a written agreement with all affected operators.

Subp. 4. **Meet request documentation.** An excavator shall maintain written documentation of each meet with an underground facility operator or representative. This documentation must be kept for the duration of the excavation conducted under the notice. The documentation must include:

- A. the date and time of each meet;
- B. the names, company affiliations, and contact information of the attendees of each meet;
- C. a diagram, sketch, or description of the precise excavation locations, dates, and times; and
- D. the agreed schedule of any future meets or communications.

Statutory Authority: *MS s 299J.04*

History: *29 SR 1503*

Published Electronically: *July 20, 2005*

7560.0375 LOCATING A SERVICE LATERAL.

Subpart 1. **Operator duties.** Unless otherwise agreed, an underground facility operator shall locate a service lateral before the start date and time on the notice and in accordance with items A through C:

A. An operator of a natural gas, propane, or electric facility shall locate a service lateral up to the meter or the connection to a customer's underground facility, whichever is closer to the end-use customer. If the meter or connection to the customer's underground facility is within a public right-of-way, at a minimum the operator shall locate that portion of the service lateral within the public right-of-way up to the point where the service lateral first leaves the public right-of-way.

B. An operator of a communication facility shall locate a service lateral up to the entry of the first building. If the service lateral does not enter a building, the operator shall locate up to the utilization equipment, fence, or wall that surrounds the equipment.

C. After December 31, 2005, an operator of a sewage or water facility, at a minimum, shall locate that portion of the service lateral within a public right-of-way installed after that date up to the point where the service lateral first leaves the public right-of-way. The operator shall either locate or provide information as shown on maps, drawings, diagrams, or other records, on the location of a sewer or water service lateral installed before January 1, 2006. If no information is available on a sewer or water service lateral installed before January 1, 2006, then notifying the excavator that no information exists fulfills the requirements of this section.

Subp. 2. **Exception.** An operator is not required to locate a service lateral of a customer who currently participates in the statewide notification system, provided the customer and operator mutually agree that the customer will assume locate responsibilities. The agreement must be in writing.

Statutory Authority: *MS s 299J.04*

History: *29 SR 1503*

Published Electronically: *July 20, 2005*

7560.0400 CITATIONS.

Subpart 1. **Notice of violation.** The office shall issue a notice of probable violation when the office has good cause to believe a violation of Minnesota Statutes, sections 216D.01 to 216D.09 or this chapter has occurred.

Subp. 2. **Contents of notice of violation.** A notice of violation must include:

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- A. a statement of the statute or rule allegedly violated by the person and a description of the evidence on which the allegation is based;
- B. notice of response options available to the person cited;
- C. notice that the person has 30 days in which to respond;
- D. notice that failure to respond within 30 days precludes administrative review under this chapter; and
- E. if a civil penalty is proposed, the amount of the proposed civil penalty and the maximum civil penalty applicable under law.

Subp. 3. **Receipt of notice.** The notice of violation is deemed received three days after mailing to the person's last known address.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.60; 299F.641; 299J.04*

History: *16 SR 135; 24 SR 448*

Published Electronically: *July 20, 2005*

7560.0500 RESPONSE OPTIONS.

The person shall respond to the notice of violation in the following way:

- A. When the notice contains a proposed compliance order, the person shall:
 - (1) agree to the proposed compliance order;
 - (2) request the execution of a consent order;
 - (3) object to the proposed compliance order and submit written explanations, information, or other materials in answer to the allegations in the notice; or
 - (4) request the office to initiate a hearing under Minnesota Statutes, sections 14.50 to 14.69.
- B. When the notice contains a proposed civil penalty, the person shall:
 - (1) pay the penalty and close the case;
 - (2) submit an offer in compromise of the proposed civil penalty;
 - (3) submit a written explanation, information, or other material in answer to the allegations or in mitigation of the proposed civil penalty; or
 - (4) request the office to initiate a hearing under Minnesota Statutes, sections 14.50 to 14.69.
- C. Failure to respond in writing within 30 days precludes administrative review under this chapter. A final order will be issued and penalties will be forwarded for collection.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.60; 299F.641; 299J.04*

History: *16 SR 135; 24 SR 448*

Published Electronically: *July 20, 2005*

7560.0600 DIRECTOR REVIEW.

If the person objects to the proposed civil penalty or compliance order and submits written explanations, information, or other materials in response to a notice of violation, within the time specified in part 7560.0500, the director shall review the submissions and determine whether to negotiate further, to change or withdraw the notice of violation, or to initiate a hearing under Minnesota Statutes, sections 14.50 to 14.69.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.60; 299F.641; 299J.04*

History: *16 SR 135; 24 SR 448*

Published Electronically: *July 20, 2005*

7560.0700 CONSENT ORDER.

An executed consent order must contain:

- A. an admission by the person of the jurisdictional facts;
- B. a waiver of further procedural steps and the right to seek judicial or administrative review or otherwise challenge or contest the validity of the consent order; and
- C. an agreement that the notice of violation may be used to construe the terms of the consent order.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.641*

History: *16 SR 135*

Published Electronically: *July 20, 2005*

7560.0800 CIVIL PENALTIES.

Subpart 1. **Proceedings against excavators.** When the office has good cause to believe that an excavator is engaging or has engaged in conduct that violates Minnesota Statutes, section 216D.04, subdivision 1, 2, or 3; 216D.05, clause (1), (2), (3), or (4); or 216D.06, subdivision 1, or a rule adopted under Minnesota Statutes, section 216D.08, subdivision 4, the office, if appropriate, shall negotiate a civil penalty under Minnesota Statutes, section 216D.08, subdivision 2. A penalty imposed under Minnesota Statutes, section 216D.08, is subject to the contested case and judicial review provisions of Minnesota Statutes, chapter 14. An operator who engages or has engaged in excavation that violates Minnesota Statutes, chapter 216D, is subject to the proceedings specified in subpart 2 and is subject to the penalties specified in subpart 4, item B or C.

Subp. 2. **Proceedings against underground facility operators.** The office may negotiate a civil penalty under item A or B.

A. When the office has good cause to believe that an underground facility operator, other than an operator set forth in item B, is engaging or has engaged in conduct that violates Minnesota Statutes, sections 216D.01 to 216D.07, or a rule adopted under Minnesota Statutes, section 216D.08, subdivision 4, the office, if appropriate, shall negotiate a civil penalty under Minnesota Statutes, section 216D.08, subdivision 2. A penalty imposed under Minnesota Statutes, section 216D.08, is subject to the contested case and judicial review provisions of Minnesota Statutes, chapter 14.

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B. When the office has good cause to believe that an operator who engages in the transportation of gas or hazardous liquids or who owns or operates a gas or hazardous liquid pipeline facility is engaging or has engaged in conduct that violates Minnesota Statutes, sections 299F.56 to 299F.641, or a rule adopted under Minnesota Statutes, section 299F.60, subdivision 5, the office, if appropriate, shall negotiate a civil penalty under Minnesota Statutes, section 299F.60, subdivision 2. A penalty imposed under Minnesota Statutes, section 299F.60, is subject to the contested case and judicial review provisions of Minnesota Statutes, chapter 14.

Subp. 3. **Assessment considerations.** In assessing a civil penalty under this part, the office shall consider the following factors:

- A. the nature, circumstances, and gravity of the violation;
- B. the degree of the person's culpability;
- C. the person's history of previous offenses;
- D. the person's ability to pay;
- E. good faith on the part of the person in attempting to remedy the cause of the violation;
- F. the effect of the penalty on the person's ability to continue in business; and
- G. past reports of damage to an underground facility by a person.

Subp. 4. **Maximum penalties.** For the purposes of this part, penalties imposed under this part must not exceed the limits in items A to C.

A. Penalties imposed against excavators must not exceed \$1,000 for each violation per day of violation.

B. Penalties imposed against underground facility operators, other than an operator set forth in item C, must not exceed \$1,000 for each violation per day of violation.

C. Penalties imposed against an operator who engages in the transportation of gas or hazardous liquids or who owns or operates a gas or hazardous liquid pipeline facility must not exceed \$10,000 for each violation for each day that the violation persists, except that the maximum civil penalty must not exceed \$500,000 for a related series of violations.

Subp. 5. **Payment procedure.** The person shall pay a civil penalty that has been proposed, assessed, or compromised by submitting to the office a check or money order in the correct amount, payable to the commissioner of public safety.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.60; 299F.641; 299J.04*

History: *16 SR 135; 24 SR 448*

Published Electronically: *July 20, 2005*

LIFT STATION 13 FM REPLACEMENT - PHASE 1

TITLE SHEET

BLAINE



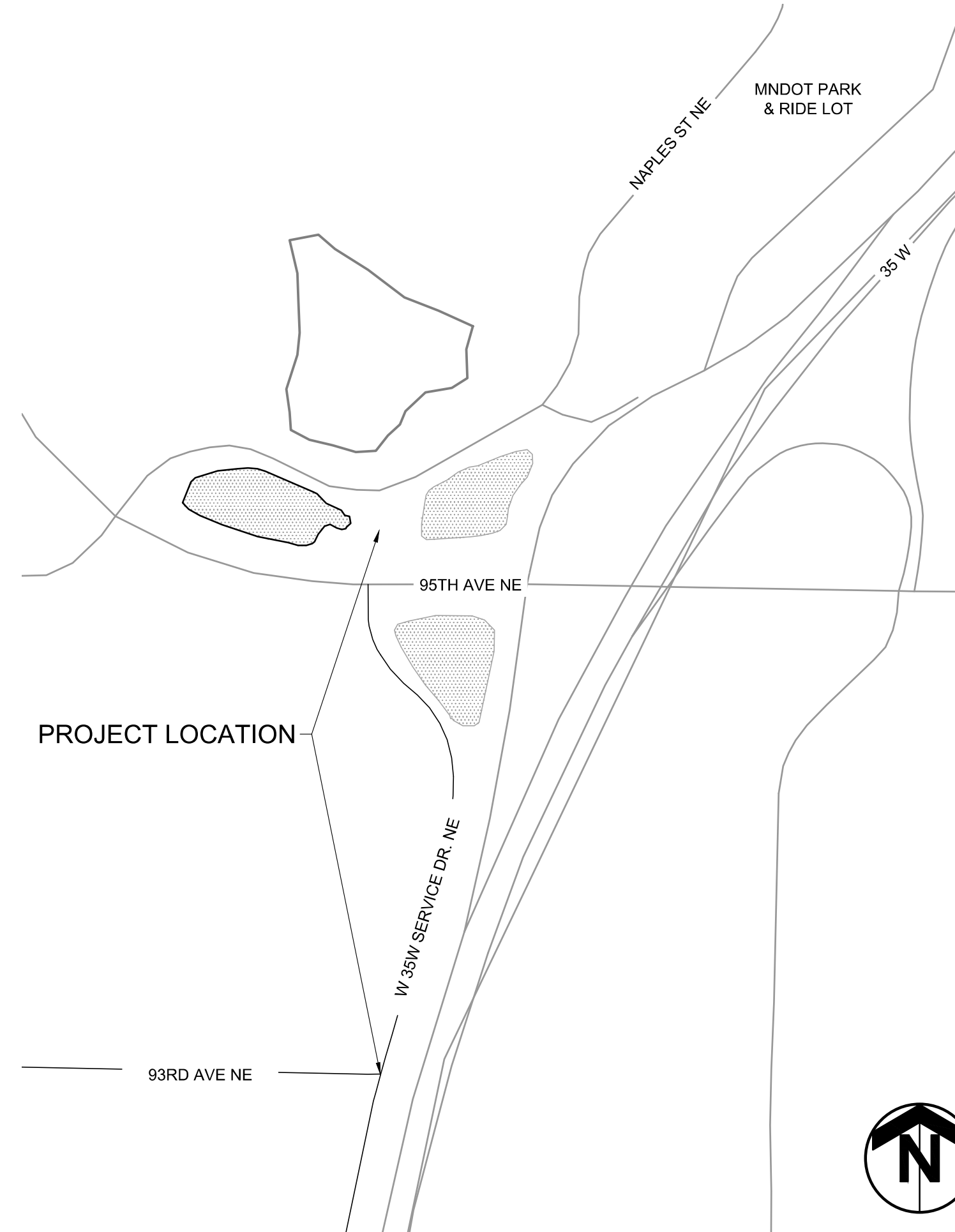
MINNESOTA

City of Blaine

CONTACT INFORMATION

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SITE LOCATION MAP

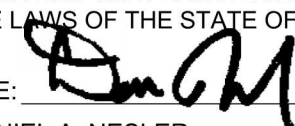



SHEET INDEX

SHEET NO.	DRAWING NO.	DRAWING NAME
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22	C017	CIVIL DETAILS

PLOT DATE: Apr 24, 2023 - 1:59pm
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NO.	DATE	BY	DESCRIPTION OF REVISIONS
0	04/24/23	DAN	ISSUED FOR BID

DESIGNED	BJM	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. SIGNATURE:  DATE: 04/24/23 NAME: DANIEL A. NESLER LIC. NO.: 47523
DRAWN	BJM	
CHECKED	AMP	

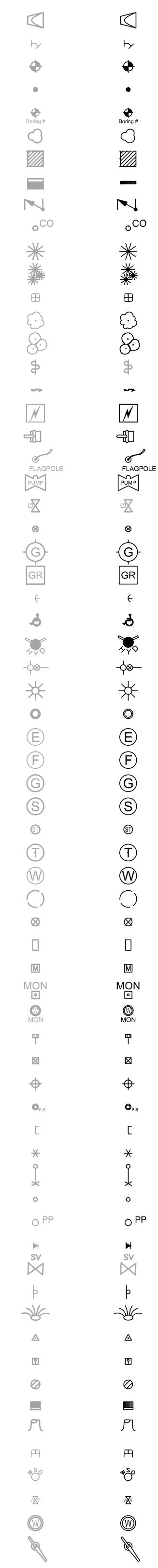

 444 Cedar Street, Suite 1500
 Saint Paul, MN 55101
 651.292.4400
tkda.com


CITY OF BLAINE
 CITY PROJECT NO. 21-30

TITLE SHEET
LIFT STATION 13 FM REPLACEMENT PHASE 1

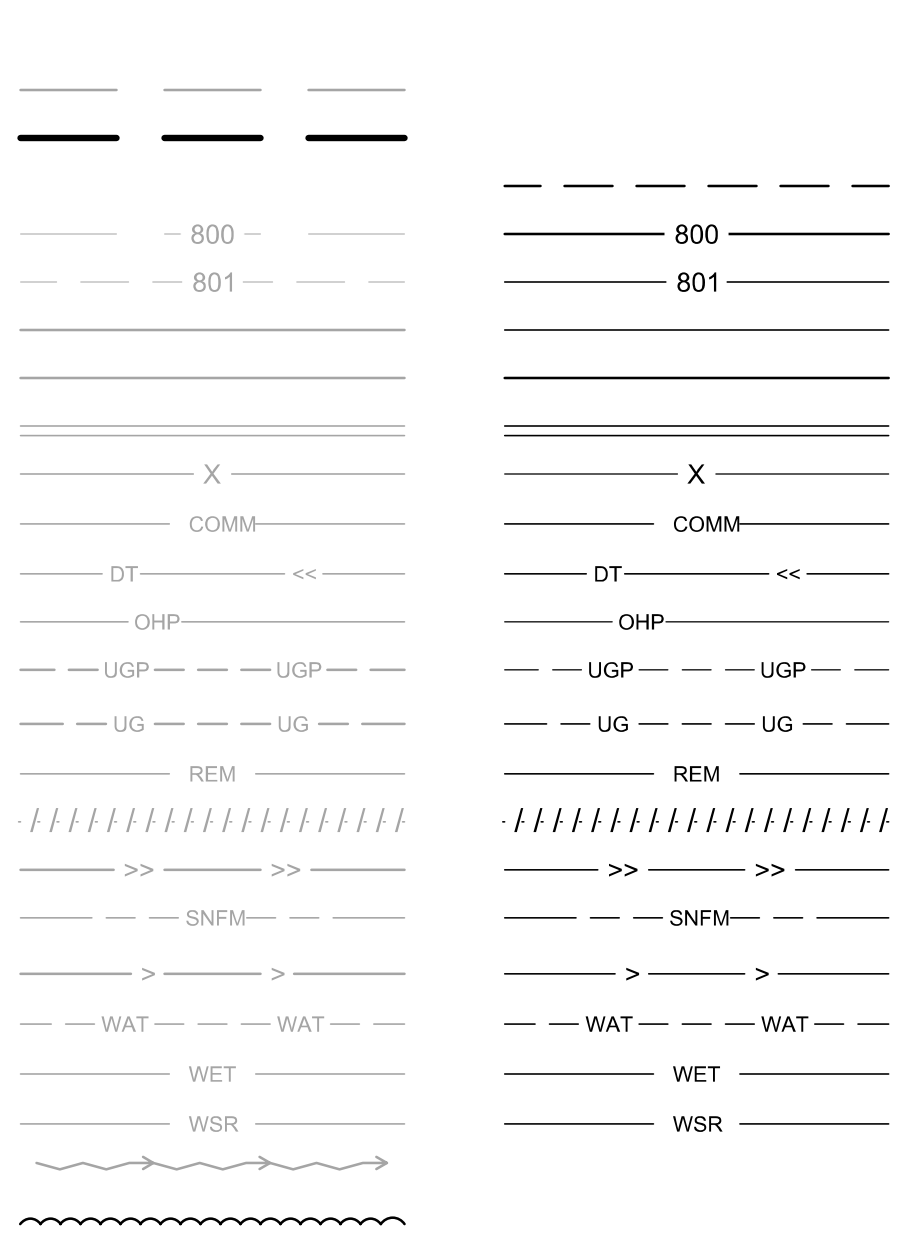
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SHEET NO.	1

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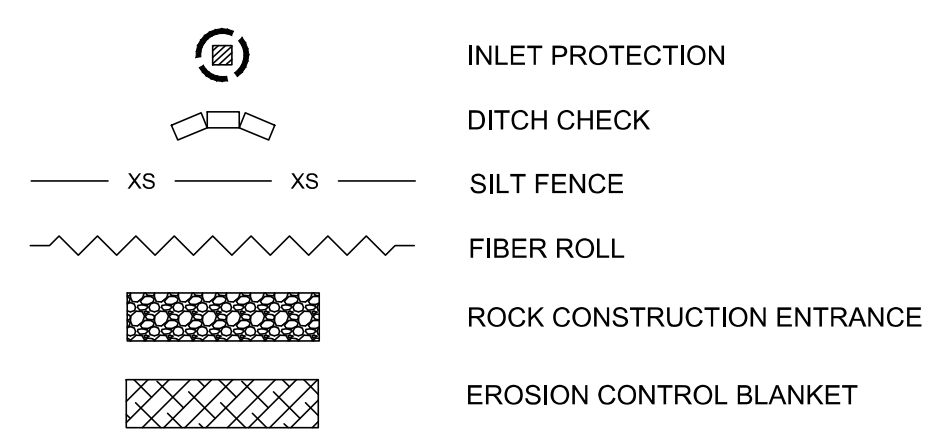
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CROSS
DECIDUOUS TREE
DECIDUOUS TREE CLUSTER
DERAIL
DRAINAGE ARROW
ELECTRICAL BOX
F CRANE
FLAG
FPMP
GAS VALVE
GATE VALVE
GPS
GSR
GUY WIRE
HANDICAP
HYDRANT
HYDRANT AND GATE VALVE
LIGHT POLE
IRON PIN
MANHOLE - ELECTRICAL
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MANHOLE - STORM
MANHOLE - TELE
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POWER POLE
REDUCER
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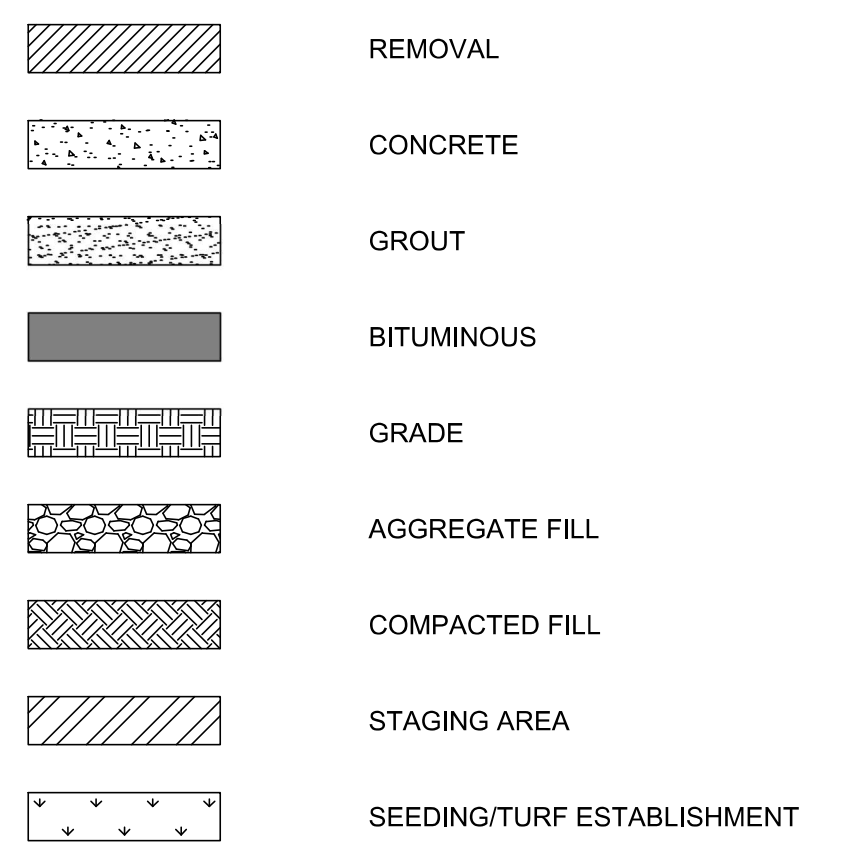


PROPERTY BOUNDARY
RIGHT OF WAY
CONSTRUCTION LIMITS
CONTOUR MAJOR
CONTOUR MINOR
BITUMINOUS PAVEMENT
CONCRETE PAVEMENT
CURB AND GUTTER
FENCE
COMMUNICATIONS
DRAINTILE
ELECTRIC OVERHEAD
ELECTRIC UNDERGROUND
GAS LINE UNDERGROUND
REMOVAL LIMITS
REMOVAL
SANITARY SEWER
SANITARY SEWER FORCEMAIN
STORM SEWER
WATERLINE
WETLAND
WATER SERVICE
WATERWAY/STREAM
TREELINE

EROSION CONTROL SYMBOLS



HATCHES



GENERAL NOTES:

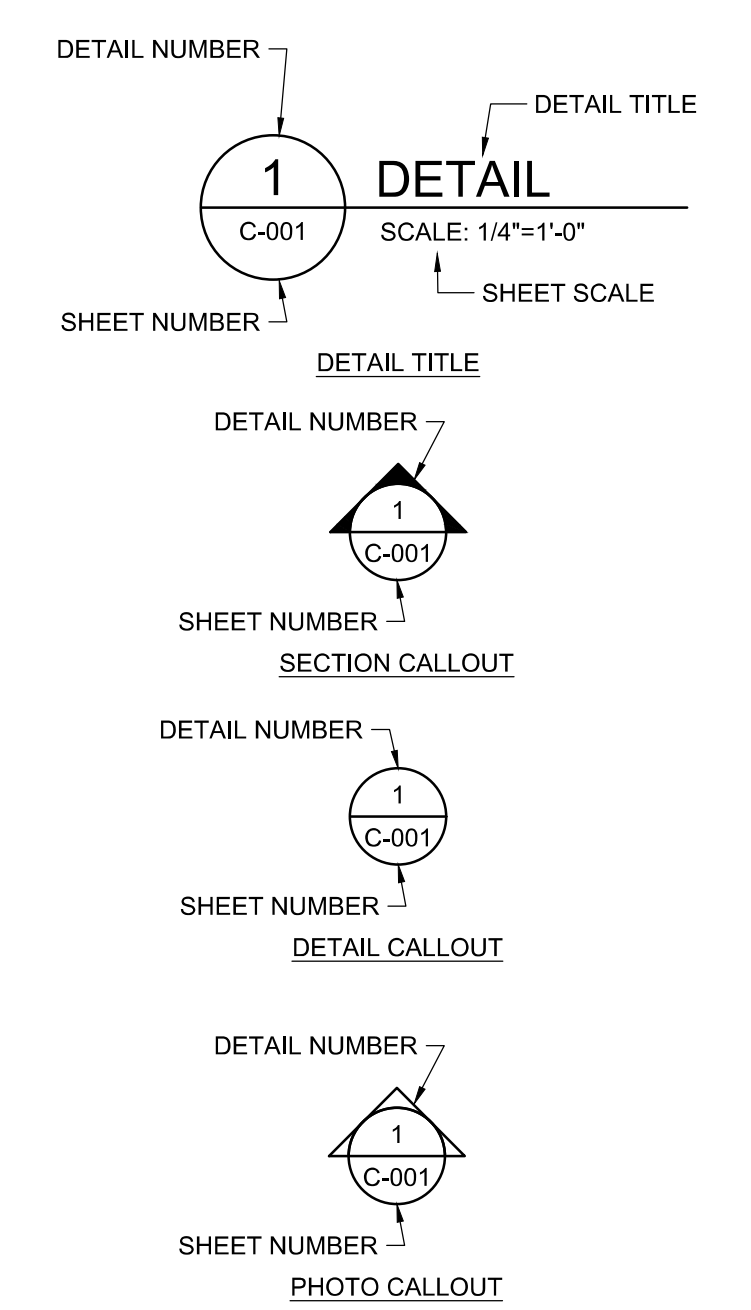
- 1. SCREENED DELINEATION SHOWN ON SHEETS DENOTES EXISTING FACILITIES.
- 2. LOCATIONS OF EXISTING ABOVE GRADE STRUCTURES, SUBSURFACE STRUCTURES, AND SOIL CONDITIONS ARE BASED ON BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. ACCURACY IS NOT GUARANTEED. CONTRACTOR SHALL FIELD VERIFY LOCATIONS, DIMENSIONS, AND CONDITIONS OF ALL EXISTING ITEMS PRIOR TO CONSTRUCTION.
- 3. HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE AND FOR INFORMATION PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY AND RECORD THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD AND RECORD ANY CHANGES ON THE RECORD DRAWINGS.
- 5. CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATIONS TO DETERMINE THE EXACT LOCATIONS OF UNDERGROUND UTILITIES, FACILITIES, AND OTHER ITEMS AS NECESSARY. IF ITEMS NEED TO BE RELOCATED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SUBMIT A PLAN WELL IN ADVANCE OF RELOCATING ANY ITEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL ARRANGEMENTS, INCLUDING APPROVAL AND COORDINATION WITH THE OWNER FOR THE RELOCATION OF AN ITEM.
- 6. ALL UTILITY PIPING AND CONDUIT TO REMAIN THAT IS ENCOUNTERED DURING CONSTRUCTION SHALL BE SUPPORTED BY THE CONTRACTOR BY MEANS ACCEPTABLE TO THE OWNER AND ENGINEER. CONTRACTOR SHALL PROTECT ANY EXISTING THRUST BLOCKS ENCOUNTERED THAT MAY BE RESTRAINING EXISTING UTILITIES AND SHALL NOT UNDERMINE THEM.
- 7. CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND PROPERTY NOT TO BE DEMOLISHED OR ABANDONED THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGED UTILITIES OR PROPERTY AT THEIR EXPENSE.
- 8. REPLACE ANY DAMAGED SURFACES DUE TO CONSTRUCTION ACTIVITIES INCLUDING BUT NOT LIMITED TO GRADING, LANDSCAPING, PAVING, AND VEGETATION TO PRECONSTRUCTION CONDITIONS OR BETTER.
- 9. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL EXCESS EXCAVATED MATERIAL, SOILS, AND DEMOLITION DEBRIS TO AN OFFSITE LOCATION. EXCAVATED SOILS USED FOR BACKFILLING SHALL BE TEMPORARILY STOCKPILED AND SHALL NOT CONTAIN ANY CONSTRUCTION DEBRIS, ROCKS, OR OTHER DELETERIOUS MATERIALS.
- 10. PIPING SHALL BE AS NOTED ON THE PLANS. UNLESS NOTED OTHERWISE, ALL WASTEWATER PIPING SHALL BE HDPE WITH DUCTILE IRON FITTINGS.
- 11. ALL PIPE LENGTHS ARE BASED ON THE HORIZONTAL DISTANCE BETWEEN OUTSIDE WALLS OF STRUCTURES.
- 12. ALL BACKFILL FOR UTILITY EXCAVATIONS SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY.
- 13. PROVIDE FULL DEPTH SAW CUT WHERE EXISTING PAVEMENT AND SIDEWALK IS BEING REMOVED.
- 14. PROVIDE APPROPRIATE EROSION CONTROL AT ALL TIMES IN AREAS OF CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO ADDITIONAL SILT FENCE, ROCK CONSTRUCTION ENTRANCES, INLET PROTECTION, SEDIMENT TRAMPS, ETC.
- 15. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING COMPLIANCE WITH ALL EROSION CONTROL REQUIREMENTS AND PERMITS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL ASSOCIATED CONSTRUCTION PERMITS.
- 16. EROSION CONTROL DEVICES SHALL BE MAINTAINED OR REPLACED BY THE CONTRACTOR AT THE DISCRETION OF THE ENGINEER.
- 17. DESIGNATE CONCRETE WASHOUT AND MIXING LOCATIONS IN THE EROSION CONTROL PLANS. ALL WASHOUT AND MIXING LOCATIONS SHALL MEET ALL REQUIREMENTS OF THE CONSTRUCTION PERMITS.

18. THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE "SUPPLEMENTAL SPECIFICATIONS" DATED SEPTEMBER 2022 SHALL GOVERN ALL WORK WITHIN ANOKA COUNTY HIGHWAY R/W.

ABBREVIATIONS

BIT	BITUMINOUS
C/L	CENTERLINE
CI	CAST IRON
CL	CLASS
CONC	CONCRETE
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
E	EAST
EL	ELEVATION
EG	EXISTING GRADE
FG	FUTURE GRADE
FM	FORCEMAIN
FT	FEET/FOOT
HDPE	HIGH DENSITY POLYETHYLENE
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INV	INVERT
MH	MANHOLE
MIN	MINIMUM
MAX	MAXIMUM
MPH	MILES PER HOUR
N	NORTH
NOM	NOMINAL
PVC	POLY VINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT-OF-WAY
S	SOUTH
SAN	SANITARY
SB	SOIL BORING
SCH	SCHEDULE
SS	STAINLESS STEEL
STA	STATION
TOC	TOP OF CURB
TYP	TYPICAL
VCP	VITRIFIED CLAY PIPE
W	WEST
WM	WATER MAIN

CROSS REFERENCE SYSTEM



NOTE:
ITEMS SHOWN ON THIS DRAWING ARE STANDARD SYMBOLS
AND MAY NOT ALL APPEAR ON THESE PROJECT DRAWINGS

PLOT DATE: Jul 21, 2023 - 11:43am
FILENAME: K:\a-f\blaine\18153000\04_Production\01_CAD - Phase_1_Gravity\02_Sheets\G002_GENERAL LEGEND.dwg

DESIGNED	BJM	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
DRAWN	BJM	
CHECKED	AMP	SIGNATURE: <i>Daniel A. Nesler</i> DATE: 04/24/23
		NAME: DANIEL A. NESLER LIC. NO.: 47523

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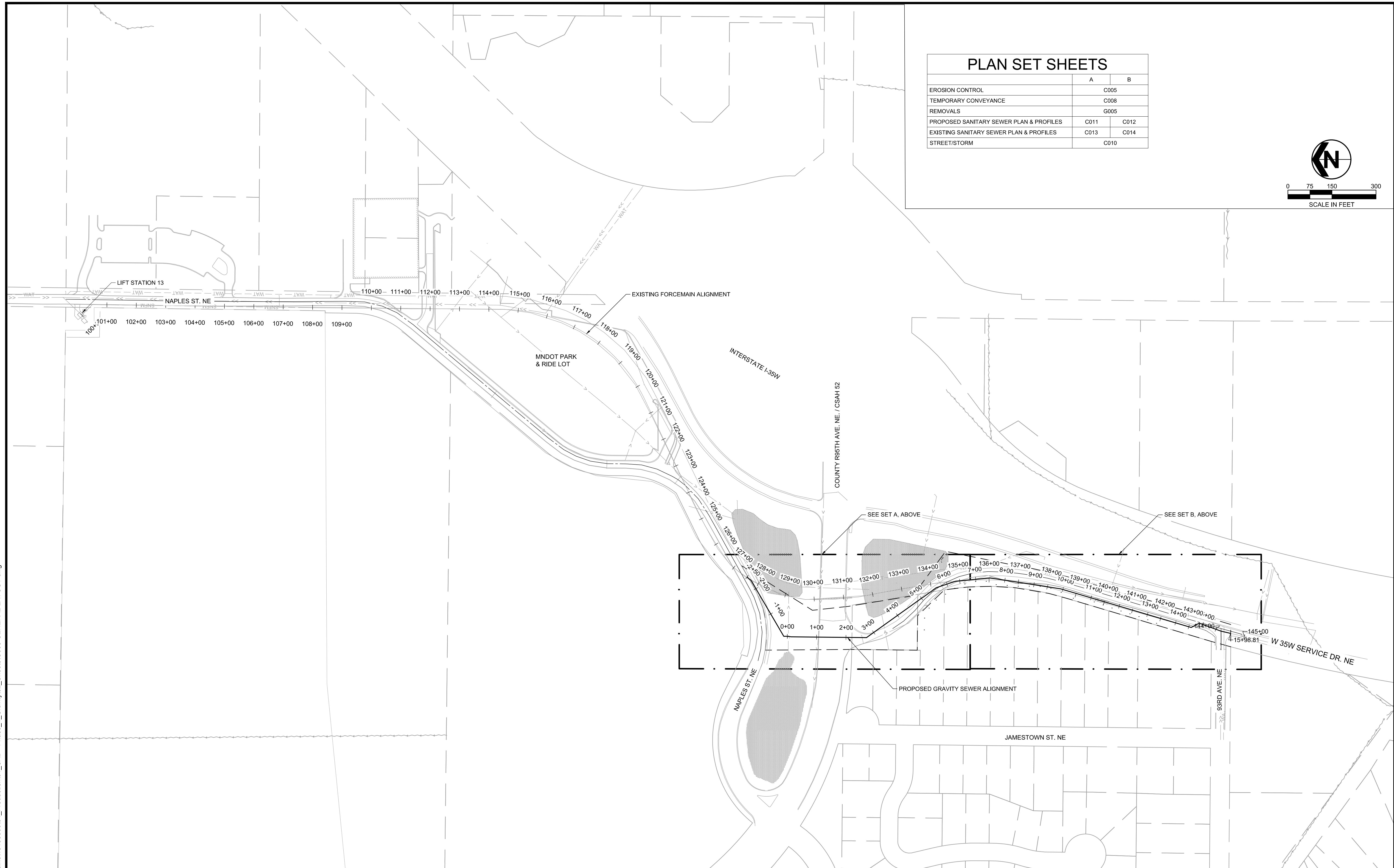
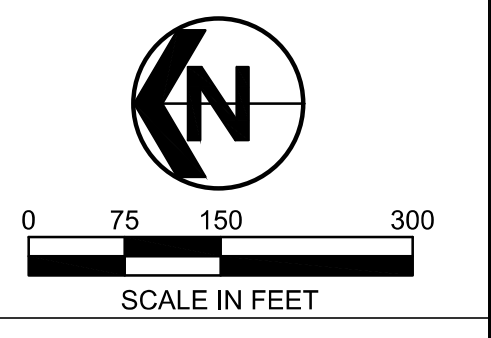
CITY OF BLAINE
CITY PROJECT NO. 21-30

GENERAL LEGEND
LIFT STATION 13 FM REPLACEMENT PHASE 1

PROJ. NO.	18153.000
DRAWING NO.	G002
SHEET NO.	2

PLAN SET SHEETS

	A	B
EROSION CONTROL	C005	
TEMPORARY CONVEYANCE	C008	
REMOVALS	G005	
PROPOSED SANITARY SEWER PLAN & PROFILES	C011	C012
EXISTING SANITARY SEWER PLAN & PROFILES	C013	C014
STREET/STORM	C010	



PLOT DATE: Apr 24, 2023 - 1:58pm
 FILENAME: K:\a-f\blaine\18153000\04_Production\01_CAD - Phase_1_Gravity\02_Sheets\G003_GENERAL LAYOUT.dwg

DESIGNED	BJM	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. SIGNATURE: <i>DAN</i> DATE: 04/24/23 NAME: DANIEL A. NESLER LIC. NO.: 47523	
DRAWN	BJM		
CHECKED	AMP		
NO.	DATE		BY


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CITY OF BLAINE
 CITY PROJECT NO. 21-30

GENERAL LAYOUT
LIFT STATION 13 FM REPLACEMENT PHASE 1


PROJ. NO.	18153.000
DRAWING NO.	G003
SHEET NO.	3

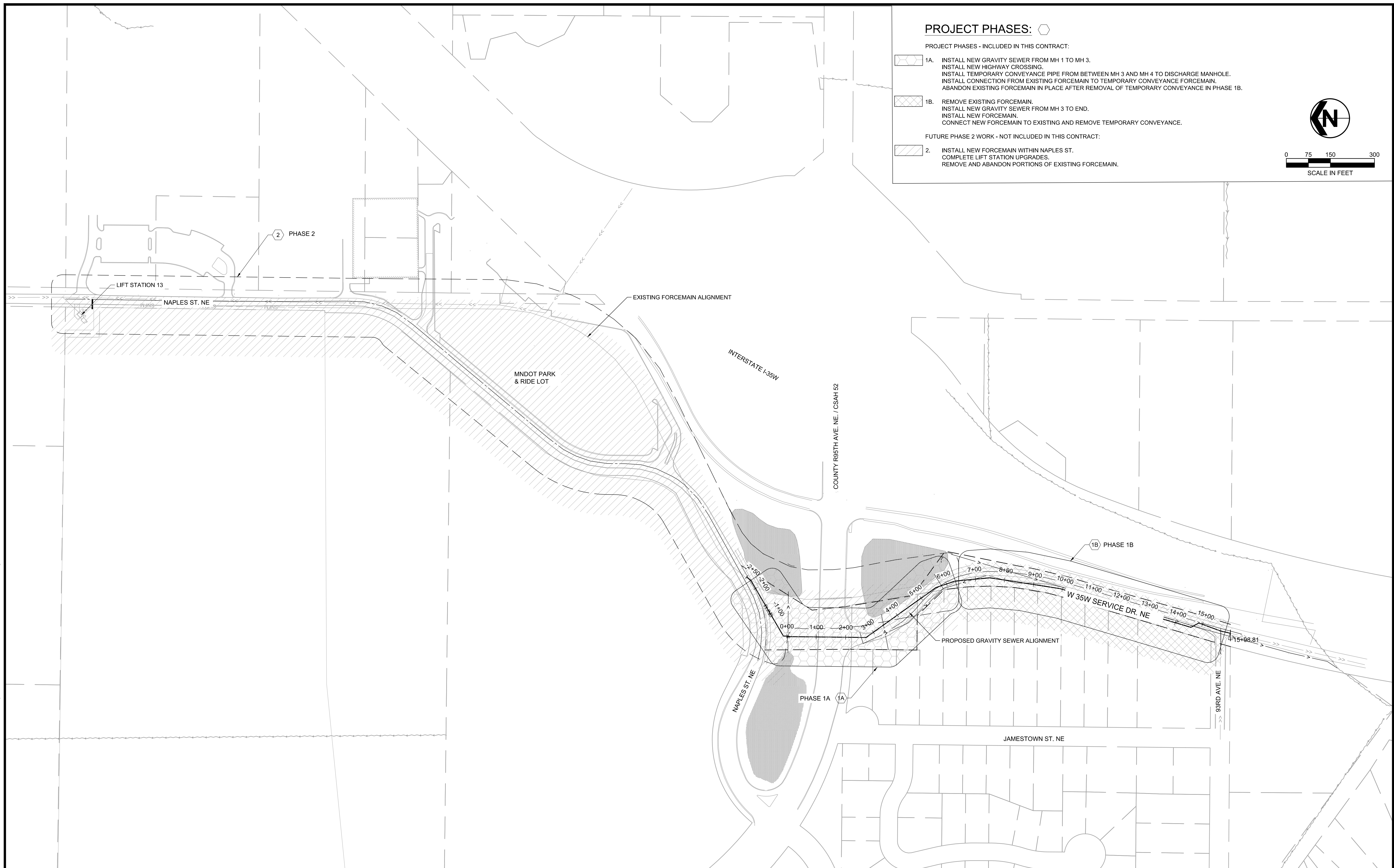
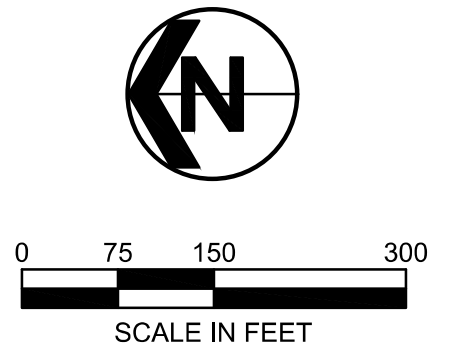
PROJECT PHASES: 

PROJECT PHASES - INCLUDED IN THIS CONTRACT:

-  1A. INSTALL NEW GRAVITY SEWER FROM MH 1 TO MH 3.
INSTALL NEW HIGHWAY CROSSING.
INSTALL TEMPORARY CONVEYANCE PIPE FROM BETWEEN MH 3 AND MH 4 TO DISCHARGE MANHOLE.
INSTALL CONNECTION FROM EXISTING FORCEMAIN TO TEMPORARY CONVEYANCE FORCEMAIN.
ABANDON EXISTING FORCEMAIN IN PLACE AFTER REMOVAL OF TEMPORARY CONVEYANCE IN PHASE 1B.
-  1B. REMOVE EXISTING FORCEMAIN.
INSTALL NEW GRAVITY SEWER FROM MH 3 TO END.
INSTALL NEW FORCEMAIN.
CONNECT NEW FORCEMAIN TO EXISTING AND REMOVE TEMPORARY CONVEYANCE.

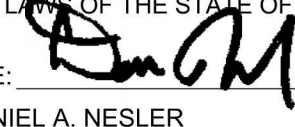
FUTURE PHASE 2 WORK - NOT INCLUDED IN THIS CONTRACT:


-  2. INSTALL NEW FORCEMAIN WITHIN NAPLES ST.
COMPLETE LIFT STATION UPGRADES.
REMOVE AND ABANDON PORTIONS OF EXISTING FORCEMAIN.



PLOT DATE: Apr 24, 2023 - 2:00pm
 FILENAME: K:\a\Blaine\18153000\04_Production\01_CAD - Phase_1_Gravity\02_Sheets\G004_SEQUENCING PLAN.dwg

NO.	DATE	BY	DESCRIPTION OF REVISIONS
0	04/24/23	DAN	ISSUED FOR BID

DESIGNED	BJM	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. SIGNATURE:  DATE: 04/24/23 NAME: DANIEL A. NESLER LIC. NO.: 47523
DRAWN	BJM	
CHECKED	AMP	



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CITY OF BLAINE
 CITY PROJECT NO. 21-30

SEQUENCING PLAN

LIFT STATION 13 FM REPLACEMENT PHASE 1

PROJ. NO. 18153.000

DRAWING NO. G004

SHEET NO. 4

MAINTENANCE HOLE SCHEDULE											
STRUCTURE	TYPE	DIAMETER (IN)	RIM	LINE "E" SIZE, MATERIAL, IE AND DIRECTION OUT		LINE "A" SIZE, MATERIAL, IE AND DIRECTION IN		LINE "B" SIZE, MATERIAL, IE AND DIRECTION IN		DETAIL ↑N (0°)	NOTES
SANITARY											
NEW MH 1	PRECAST CONCRETE	96	910.49	24"	PVC					○ E↑	COAT PER SPECIFICATIONS
				902.40							
NEW MH 2	PRECAST CONCRETE	48	918.11	24"	PVC	24"	PVC			○ A↑ E↑	COAT PER SPECIFICATIONS
				901.60		901.60					
NEW MH 3	PRECAST CONCRETE	48	913.65	24"	PVC	24"	PVC			○ A↑ E↑	COAT PER SPECIFICATIONS
				900.98		900.98					
NEW MH 4	PRECAST CONCRETE	48	911.67	24"	PVC	24"	PVC			○ A↑ E↑	COAT PER SPECIFICATIONS
				900.81		900.81					
NEW MH 5	PRECAST CONCRETE	48	910.11	24"	PVC	24"	PVC			○ A↑ E↑	COAT PER SPECIFICATIONS
				900.52		900.52					
NEW MH 6	PRECAST CONCRETE	48	910.22	24"	PVC	24"	PVC			○ A↑ E↑	COAT PER SPECIFICATIONS
				899.88		899.88					
NEW MH 7	PRECAST CONCRETE	48	909.97	24"	PVC	24"	PVC			○ A↑ E↑	COAT PER SPECIFICATIONS
				898.24		898.24					
NEW MH 8	PRECAST CONCRETE	48	910.65	24"	PVC	24"	PVC			○ A↑ E↑	COAT PER SPECIFICATIONS
				897.10		897.10					
EXISTING MH 21	PRECAST CONCRETE	48	909.22	27"	PVC	24" (NEW)	PVC	12"	PVC	○ A↑(NEW) B↑ E↑	COAT PER SPECIFICATIONS
				878.63		898.49		880.60			
STORM											
5127	CATCH BASIN	27	921.65	12"	RCP					○ E↑	PROTECT
				917.32							
5126	CATCH BASIN	27	922.72	15"	RCP	12"	RCP			○ A↑ E↑	PROTECT
				916.95		917.20					
5125	CATCH BASIN	27	917.06	15"	RCP	15"	RCP			○ A↑ E↑	REMOVE AND REINSTALL CASTING
				913.39		913.39					
5124	CATCH BASIN	27	918.10			15"	RCP			○ A↑ E↑	PROTECT
						905.63					
5123	CATCH BASIN	27	912.85	15"	RCP	15"	RCP	15"	RCP	○ A↑ B↑ E↑	REMOVE AND REINSTALL CASTING
				905.28		909.00		907.07			
5122	CATCH BASIN	27	911.01	15"	RCP					○ E↑	REMOVE AND REINSTALL CASTING
				906.28							
5359	CATCH BASIN	27	912.50	12"	RCP					○ E↑	PROTECT
				907.50							
5360	CATCH BASIN	27	904.86	12"	RCP	12"	RCP			○ A↑ E↑	PROTECT
				905.50		905.50					
28	MANHOLE	48	910.69	12"	RCP	12"	RCP			○ A↑ E↑	PROTECT
				903.93		903.93					
28A	MANHOLE	48	910.27	12"	RCP	12"	RCP			○ A↑ E↑	PROTECT
				902.94		902.94					
29	MANHOLE	48	909.99	12"	RCP	12"	RCP			○ A↑ E↑	PROTECT
				902.65		902.65					
30	MANHOLE	48	908.65	12"	RCP	12"	RCP			○ A↑ E↑	PROTECT
				902.15		902.15					
31	MANHOLE	48	908.38	12"	RCP	12"	RCP			○ A↑ E↑	PROTECT
				901.83		901.83					

CASING SCHEDULE							
CASING	#	NORTHING (Y)	EASTING (X)	CASING SIZE (DIA X LENGTH)	CARRIER PIPE DESCRIPTION	NOTES	CASING INVERTS
A	1	145441.18	528099.34	36" X 205'	24" PVC SANITARY	DIRECTIONALLY DRILL	900.14
	2	145438.78	528303.81				900.62

*CONTRACTOR SHALL COMPLETE TABLE WITH AS-BUILT NORTHING, EASTING AND INVERT ELEVATION DATA UPON SUBMISSION OF RECORD DRAWINGS.

PLOT DATE: Apr 24, 2023 - 2:00pm
 FILENAME: K:\a-f\blaine\18153000\04_Production\01_CAD - Phase_1_Gravity\02_Sheets\G005 MH SCHEDULE.dwg

DESIGNED	BJM	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. SIGNATURE:  DATE: 04/24/23 NAME: DANIEL A. NESLER LIC. NO.: 47523	 444 Cedar Street, Suite 1500 Saint Paul, MN 55101 651.292.4400 tkda.com	 CITY OF BLAINE CITY PROJECT NO. 21-30	PROJ. NO. 18153.000
DRAWN	BJM				DRAWING NO. G005
CHECKED	AMP				LIFT STATION 13 FM REPLACEMENT PHASE 1 SHEET NO. 5

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE

PROJECT LOCATION/DESCRIPTION

THE PROJECT IS LOCATED WEST OF INTERSTATE 35W, NORTH OF 93RD AVE NE, AND SOUTH OF NAPLES ST NE IN THE CITY OF BLAINE IN ANOKA COUNTY. THE PROJECT WILL INCLUDE THE FOLLOWING STREETS FOR REHABILITATION: I-35W SERVICE DRIVE NE.

LATITUDE: 45.14942 LONGITUDE: -93.188030

THE PLANNED SCOPE OF THE PROJECT INCLUDES: SANITARY SEWER, SANITARY SEWER FORCEMAIN REPLACEMENT, BITUMINOUS RESURFACING, CURB AND GUTTER, STORM SEWER REPLACEMENT.

RECEIVING WATER BODIES

THE FOLLOWING WATERBODIES ARE LOCATED WITHIN ONE MILE OF THE PROJECT LIMITS AND RECEIVE RUNOFF FROM THE PROJECT SITE.

NAME	CONSTRUCTION RELATED IMPAIRMENTS
ANOKA COUNTY DITCH NO. 1	NO
ANOKA COUNTY DITCH NO. 32	NO
ANOKA COUNTY DITCH NO. 62	NO

AREAS OF ENVIRONMENTAL SENSITIVITY (AES) AND INFESTED WATERS

THE CONTRACTOR SHALL BE AWARE THAT THERE ARE WETLANDS AND EXISTING STORMWATER FACILITIES WITHIN AND NEAR THE PROJECT BOUNDARY.

THE FOLLOWING WATER BODIES HAVE BEEN LISTED BY THE DNR AS BEING INFESTED BY INVASIVE SPECIES:

ALL EQUIPMENT THAT HAS BEEN IN CONTACT WITH DESIGNATED INFESTED WATERS GREATER THAN 24 HOURS MUST BE TREATED TO REMOVE AND KILL INVASIVE SPECIES PRESENT IN THOSE WATERS PRIOR TO REUSE ON ANOTHER WATER BODY OR TRANSPORTING ON PUBLIC ROADS.

SOIL TYPES

SOIL TYPES FOUND ON THIS PROJECT ARE AS FOLLOWS:
ISANTI FINE SANDY LOAM; SODERVILLE FINE SAND; ZIMMERMAN FINE SAND

ENVIRONMENTAL REVIEW

THERE ARE NO STORMWATER MITIGATION MEASURES REQUIRED AS A RESULT OF AN ENVIRONMENTAL, ARCHEOLOGICAL OR AGENCY REVIEW.

ALL MITIGATION MEASURES HAVE BEEN ADDRESSED IN THIS PLAN SET OR THE SPECIAL PROVISIONS.

THIS PROJECT IS NOT LOCATED IN A WELL HEAD PROTECTION AREA, DRINKING WATER SUPPLY MANAGEMENT AREA (DWSMA), KARST AREA, OR EMERGENCY RESPONSE AREA (ERA).

DESIGN DATA

STORMWATER CALCULATIONS AND HYDRAULIC INFORMATION IS ON FILE WITH THE PROJECT ENGINEER AND IS AVAILABLE ON REQUEST.

PROJECT CONTACTS

ORGANIZATION	CONTACT NAME	PHONE
CITY OF BLAINE/ ASST. CITY ENGINEER	STEFAN HIGGINS, PE	763-717-2722
PROJECT ENGINEER	AMY PATTERSON, PE	651-280-5691
SWPPP DESIGNER	AMY PATTERSON, PE	651-280-5691
CONSTRUCTION SITE MANAGER (CONTRACTOR)		
RICE CREEK WATERSHED DISTRICT		
MINNESOTA DEPARTMENT OF NATURAL RESOURCES		
MINNESOTA POLLUTION CONTROL AGENCY		

MPCA 24 HOUR EMERGENCY NOTIFICATION: 651-649-5451 TOLL FREE: 800-422-0798

PROJECT PERSONNEL AND TRAINING

THIS SWPPP WAS PREPARED BY AMY PATTERSON WHO IS CERTIFIED IN THE DESIGN OF CONSTRUCTION SWPPPS. COPIES OF THE CERTIFICATION ARE ON FILE WITH THE CITY AND ARE AVAILABLE UPON REQUEST.

IN ACCORDANCE WITH SPECIFICATION, THE CONTRACTOR SHALL PROVIDE A CERTIFIED CONSTRUCTION SITE MANAGER IN GOOD STANDING WHO IS KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES. THE EROSION CONTROL SUPERVISOR WILL WORK WITH THE PROJECT ENGINEER TO OVERSEE THE IMPLEMENTATION OF THE SWPPP AND THE INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs BEFORE, DURING AND AFTER CONSTRUCTION UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA.

IN ACCORDANCE WITH SPECIFICATION, PROVIDE AT LEAST ONE CERTIFIED INSTALLER FOR EACH CONTRACTOR OR SUBCONTRACTOR THAT INSTALLS THE PRODUCTS LISTED IN SPECIFICATION.

PROVIDE PROOF OF CERTIFICATION AT THE PRECONSTRUCTION MEETING. WORK WILL NOT BE ALLOWED TO COMMENCE UNTIL PROOF OF CERTIFICATION HAS BEEN PROVIDED TO THE PROJECT ENGINEER.

CHAIN OF RESPONSIBILITY

THE CITY OF BLAINE AND THE CONTRACTOR ARE CO-PERMITTEES FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION PERMIT. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION PERMIT AT ALL TIMES UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA. THE CONTRACTOR WILL DEVELOP A CHAIN OF COMMAND WITH ALL OPERATORS ON THE SITE TO ENSURE THAT THE SWPPP WILL BE IMPLEMENTED AND STAY IN EFFECT UNTIL THE CONSTRUCTION PROJECT IS COMPLETE, THE ENTIRE SITE HAS UNDERGONE FINAL STABILIZATION, AND THE NOT HAS BEEN SUBMITTED TO THE MPCA. THE CONSTRUCTION PROJECT ENGINEER WILL ENSURE THAT THE CONTRACTOR'S EROSION AND SEDIMENT CONTROL SUPERVISOR FULFILLS THEIR DUTIES.

LOCATION OF SWPPP REQUIREMENTS

THE REQUIRED SWPPP ELEMENTS MAY BE LOCATED IN MANY PLACES WITHIN THE PLAN SET, SPEC BOOK, OR ON FILE WITH THE PROJECT ENGINEER. THE NOTES AND TABLE BELOW ARE INTENDED TO BE A QUICK REFERENCE FOR THE CONTRACTOR AND PROJECT ENGINEER TO USE IN THE FIELD. THERE MAY BE ADDITIONAL REQUIRED SWPPP ELEMENTS INCLUDED ON THE PROJECT THAT ARE NOT LISTED ON THIS SHEET.

DESCRIPTION	LOCATION
TEMPORARY EROSION CONTROL MEASURES	C005
PERMANENT EROSION CONTROL MEASURES	C005
DIRECTION OF FLOW	C003 & C012
FINAL STABILIZATION	C005
SOILS AND CONSTRUCTION NOTES	C001 & C002
DRAINAGE STRUCTURES	C016
DRAINAGE TABULATION	G005
STORM SEWER PROFILE SHEETS	C012
EROSION AND SEDIMENT CONTROL DETAILS	C005 - C006
SITE MAP	G003
STORMWATER CALCULATIONS	ON FILE WITH THE ENGINEER
WATER RESOURCES NOTES	C003

STORMWATER CALCULATIONS AND ADDITIONAL HYDRAULIC DESIGN INFORMATION IS AVAILABLE UPON REQUEST FROM THE PROJECT ENGINEER.

LAND FEATURE CHANGES

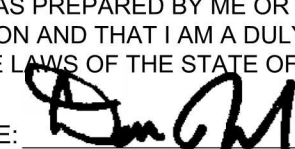
TOTAL DISTURBED AREA	1.67 ACRES
TOTAL EXISTING IMPERVIOUS AREA	0.22 ACRES
TOTAL PROPOSED IMPERVIOUS AREA	0.22 ACRES
TOTAL NET CHANGE IN IMPERVIOUS AREA	0 ACRES


LONG TERM OPERATION AND MAINTENANCE

THE CITY OF BLAINE MAINTENANCE STAFF IS RESPONSIBLE FOR THE LONG TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORMWATER SYSTEM CONSTRUCTED IN THIS PROJECT.

PLOT DATE: Apr 24, 2023 - 2:00pm
FILENAME: K:\a-f\blaine\18153000\04_Production\01_CAD - Phase_1_Gravity\02_Sheets\C001_SWPPP.dwg

NO.	DATE	BY	DESCRIPTION OF REVISIONS
0	04/24/23	DAN	ISSUED FOR BID

DESIGNED	BJM	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
DRAWN	BJM	
CHECKED	AMP	
SIGNATURE: 		DATE: 04/24/23
NAME: DANIEL A. NESLER		LIC. NO.: 47523



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Saint Paul, MN 55101
651.292.4400
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CITY OF BLAINE
CITY PROJECT NO. 21-30

SWPPP

LIFT STATION 13 FM REPLACEMENT PHASE 1

PROJ. NO. 18153.000

DRAWING NO. C001

SHEET NO. 6

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE (CONTINUED)

SITE INSPECTION AND MAINTENANCE

THE CERTIFIED CONSTRUCTION SITE MANAGER SHALL INSPECT THE ENTIRE CONSTRUCTION SITE A MINIMUM OF ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. INSPECT ALL TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT, EROSION PREVENTION AND SEDIMENT CONTROL BMPS UNTIL THE SITE HAS UNDERGONE FINAL STABILIZATION AND THE NOT HAS BEEN SUBMITTED. INSPECT SURFACE WATER INCLUDING DRAINAGE DITCHES FOR SIGNS OF EROSION AND SEDIMENT DEPOSITION. INSPECT CONSTRUCTION SITE VEHICLE EXIT LOCATIONS FOR EVIDENCE OF TRACKING ONTO PAVED SURFACES. INSPECT SURROUNDING PROPERTIES FOR EVIDENCE OF OFF SITE SEDIMENT ACCUMULATION.

RECORD ALL INSPECTIONS AND MAINTENANCE ACTIVITIES IN WRITING WITHIN 24 HOURS. SUBMIT INSPECTION REPORTS IN A FORMAT THAT IS ACCEPTABLE TO MNDOT'S PROJECT ENGINEER. INCLUDE THE FOLLOWING IN THE RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY:

- A. DATE AND TIME OF INSPECTIONS
- B. NAME OF PERSONS CONDUCTING INSPECTIONS
- C. FINDINGS OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIONS
- D. CORRECTIVE ACTIONS TAKEN, INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES
- E. DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCH IN 24 HOURS
- F. CHANGES MADE TO THE SWPPP AND ASSOCIATED DOCUMENTS
- G. REPLACE, REPAIR OR SUPPLEMENT ALL NONFUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY UNLESS LISTED DIFFERENTLY BELOW:
- H. REPAIR, REPLACE, OR SUPPLEMENT PERIMETER CONTROL DEVICES WHEN IT BECOMES NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT OF THE DEVICE. COMPLETE REPAIRS BY THE END OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY.
- I. REPAIR OR REPLACE INLET PROTECTION DEVICES WHEN THEY BECOME NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT AND/OR DEPTH OF THE DEVICE.
- J. DRAIN AND REMOVE SEDIMENT FROM TEMPORARY AND PERMANENT SEDIMENT BASINS ONCE THE SEDIMENT HAS REACHED 1/2 THE STORAGE VOLUME. COMPLETE WORK WITHIN 72 HOURS OF DISCOVERY.
- K. REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS. RESTABILIZE ANY AREAS THAT ARE DISTURBED BY SEDIMENT REMOVAL OPERATIONS. SEDIMENT REMOVAL AND STABILIZATION MUST BE COMPLETED WITHIN 7 DAYS OF DISCOVERY. PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR WORKING IN SURFACE WATERS. CONTACT ALL APPROPRIATE AUTHORITIES PRIOR TO WORKING IN SURFACE WATERS.
- L. REMOVE TRACKED SEDIMENT FROM PAVED SURFACES BOTH ON AND OFF SITE WITHIN 24 HOURS OF DISCOVERY. STREET SWEEPING MAY HAVE TO OCCUR MORE OFTEN TO MINIMIZE OFF SITE IMPACTS. LIGHTLY WET THE PAVEMENT PRIOR TO SWEEPING.
- M. MAINTAIN ALL BMPS UNTIL WORK HAS BEEN COMPLETED, SITE HAS GONE UNDER FINAL STABILIZATION, AND THE NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED TO THE MPCA.

GENERAL SWPPP NOTES FOR CONSTRUCTION ACTIVITY

1. AMEND THE SWPPP AND DOCUMENT ANY AND ALL CHANGES TO THE SWPPP AND ASSOCIATED PLAN SHEETS IN A TIMELY MANNER. STORE THE SWPPP AND ALL AMENDMENTS ON SITE AT ALL TIMES.
2. PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR THE ENGINEER'S ACCEPTANCE FOR CONCRETE MANAGEMENT, CONCRETE SLURRY APPLICATION AREAS, WORK IN AND NEAR AREAS OF ENVIRONMENTAL SENSITIVITY, AREAS IDENTIFIED IN THE PLANS AS "SITE MANAGEMENT PLAN AREA", ANY WORK THAT WILL REQUIRE DEWATERING, AND AS REQUESTED BY THE ENGINEER. SUBMIT ALL SITE MANAGEMENT PLANS TO THE ENGINEER IN WRITING. ALLOW A MINIMUM OF 10 DAYS FOR PROJECT ENGINEER TO REVIEW AND ACCEPT SITE MANAGEMENT PLAN SUBMITTALS. WORK WILL NOT BE ALLOWED TO COMMENCE IF A SITE MANAGEMENT PLAN IS REQUIRED UNTIL ACCEPTANCE HAS BEEN GRANTED BY PROJECT ENGINEER. THERE WILL BE NO EXTRA TIME ADDED TO THE CONTRACT DUE TO THE UNTIMELY SUBMITTAL.
3. BURNING OF ANY MATERIAL IS NOT ALLOWED WITHIN PROJECT BOUNDARY.
4. ROUTE STORMWATER AROUND UNSTABILIZED AREAS OF THE SITE WHENEVER FEASIBLE. PROVIDE EROSION CONTROL AND VELOCITY DISSIPATION DEVICES AS NEEDED TO KEEP CHANNELS FROM ERODING AND TO PREVENT NUISANCE CONDITIONS AT THE OUTLET.
5. DIRECT DISCHARGES FROM BMPS TO VEGETATED AREAS WHENEVER FEASIBLE. PROVIDE VELOCITY DISSIPATION DEVICES AS NEEDED TO PREVENT EROSION.
6. THE EROSION PREVENTION AND SEDIMENT CONTROL BMPS SHALL BE PLACED AS NECESSARY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND TO CAPTURE SEDIMENT ON SITE. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF ANY REMOVAL WORK AND/OR GROUND DISTURBING ACTIVITIES COMMENCE.
7. ESTABLISH SEDIMENT CONTROL DEVICES ON ALL DOWN GRADIENT PERIMETERS AND UPGRADIENT OF ANY BUFFER ZONES BEFORE ANY UP GRADIENT LAND DISTURBING ACTIVITIES BEGIN. MAINTAIN SEDIMENT CONTROL DEVICES UNTIL CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
8. LOCATE PERIMETER CONTROL ON THE CONTOUR TO CAPTURE OVERLAND, LOW- VELOCITY SHEET FLOWS DOWN GRADIENT OF ALL EXPOSED SOILS AND PRIOR TO DISCHARGING TO SURFACE WATERS. PLACE JHOOKS AT A MAXIMUM OF 100 FOOT INTERVALS.
9. PROVIDE PERIMETER CONTROL AROUND ALL STOCKPILES. DO NOT PLACE STOCKPILES IN NATURAL BUFFER AREAS, SURFACE WATERS OR STORMWATER CONVEYANCES.
10. FLOATING SILT CURTAIN IS ALLOWED AS PERIMETER CONTROL FOR IN WATER WORK ONLY. PLACE THE FLOATING SILT CURTAIN AS CLOSE TO SHORE AS POSSIBLE. PLACE PERIMETER CONTROL BMP ON LAND IMMEDIATELY AFTER THE IN WATER WORK IS COMPLETED.
11. DITCH CHECKS WILL BE PLACED AS INDICATED ON THE PLANS DURING ALL PHASES OF CONSTRUCTION.
12. PROTECT STORM SEWER INLETS AT ALL TIMES WITH THE APPROPRIATE INLET PROTECTION FOR EACH SPECIFIC PHASE OF CONSTRUCTION. PROVIDE INLET PROTECTION DEVICES WITH EMERGENCY OVERFLOW CAPABILITIES. SILT FENCE PLACED IN THE INLET GRATE IS NOT AN ACCEPTABLE INLET PROTECTION BMP FOR GRADING OPERATIONS. SILT FENCE PLACED IN THE GRATE IS ONLY ALLOWED FOR SHORT INTERVALS DURING MILLING OR PAVING OPERATIONS. INLET PROTECTION DEVICES MAY NEED TO BE PLACED MULTIPLE TIMES IN THE SAME LOCATION OVER THE LIFE OF THE CONTRACT. INLET PROTECTION DEVICES WILL BE PAID FOR ONCE PER INLET REGARDLESS OF THE NUMBER OF TIMES THE BMP IS PLACED. KEEP ALL STORM SEWER INLET PROTECTION DEVICES IN GOOD FUNCTIONAL CONDITION AT ALL TIMES. REPLACE INLET PROTECTION DEVICE WITH A SUITABLE ALTERNATIVE IF THE PROJECT ENGINEER DEEMS AN INLET PROTECTION DEVICE TO BE NONFUNCTIONAL, IN POOR CONDITION, INEFFECTIVE, OR NOT APPROPRIATE FOR THE CURRENT CONSTRUCTION ACTIVITIES. THERE WILL BE NO COST TO OWNER FOR REPLACEMENT OF INLET PROTECTION DEVICES.
13. PLACE CONSTRUCTION EXITS, AS NECESSARY, TO PREVENT TRACKING OF SEDIMENT ONTO PAVED SURFACES BOTH ON AND OFF THE PROJECT SITE. PROVIDE CONSTRUCTION EXITS OF SUFFICIENT SIZE TO PREVENT TRACK OUT. MAINTAIN CONSTRUCTION EXITS WHEN EVIDENCE OF TRACKING IS DISCOVERED. REGULAR STREET SWEEPING IS NOT AN ACCEPTABLE ALTERNATIVE TO PROPER CONSTRUCTION EXIT INSTALLATION AND MAINTENANCE.
14. DISCHARGE TURBID OR SEDIMENT LADEN WATER TO TEMPORARY SEDIMENT BASINS WHENEVER FEASIBLE. IN THE EVENT THAT IT IS NOT FEASIBLE TO DISCHARGE THE SEDIMENT LADEN WATER TO A TEMPORARY SEDIMENT BASIN, THE WATER MUST BE TREATED SO THAT IT DOES NOT CAUSE A NUISANCE CONDITION IN THE RECEIVING WATERS OR TO DOWNSTREAM LANDOWNERS. CLEAN OUT ALL PERMANENT STORMWATER BASINS REGARDLESS OF WHETHER USED AS TEMPORARY SEDIMENT BASINS OR TEMPORARY SEDIMENT TRAPS TO THE DESIGN CAPACITY AFTER ALL UPGRADIENT LAND DISTURBING ACTIVITY IS COMPLETED.
15. PROVIDE SCOUR PROTECTION AT ANY OUTFALL OF DEWATERING ACTIVITIES.
16. PROVIDE STABILIZATION IN ANY TRENCHES CUT FOR DEWATERING OR SITE DRAINING PURPOSES.
17. REMOVE SEDIMENT FROM STORMWATER SYSTEM AT THE END OF PROJECT.
18. PRESERVE A 50 FOOT NATURAL BUFFER OR (IF BUFFER IS INFEASIBLE) PROVIDE REDUNDANT SEDIMENT CONTROLS WHEN A SURFACE WATER IS LOCATED WITHIN 50 FEET OF LAND DISTURBANCE AND STORMWATER FLOWS TO THE SURFACE WATER.
19. INPLACE VEGETATION SHALL BE MAINTAINED WHEREVER FEASIBLE. INPLACE TOPSOIL SHALL BE STOCKPILED FOR RE-USE SUBSOILING AND OR SOIL BED PREPARATION PER MNDOT SPEC 2574 SHALL BE PERFORMED TO REDUCE SOIL COMPACTION PRIOR TO PLACING SEED, MULCH OR BLANKET AND FERTILIZER.
20. SEE TURF ESTABLISHMENT PLANS FOR METHODS TO BE USED FOR FINAL STABILIZATION OF ALL EXPOSED SOIL AREAS.
21. THE CONTRACTOR SHALL MODIFY AND/OR ESTABLISH ADDITIOAL TEMPORARY EROSION AND SEDIMENT CONTROL BMPs AS NECESSARY DUE TO CHANGES IN SITE CONDITIONS. THE CONTRACTOR SHALL DOCUMENT THESE CHANGES IN A SWPPP AMENDMENT AND STORE THE SWPPP AND ALL AMENDMENTS ON SITE AT ALL TIMES.

STABILIZATION TIME FRAMES

AREA	TIME FRAME	NOTES
LAST 200 LINEAL FEET OF DRAINAGE DITCH OR SWALE	WITHIN 24 HOURS OF CONNECTION TO SURFACE WATER OR PROPERTY EDGE	1, 2, 3, 6
REMAINING PORTIONS OF DRAINAGE DITCH OR SWALE	WITHIN 7 DAYS	1, 3, 6
PIPE AND CULVERT OUTLETS	WITHIN 24 HOURS	3
EXPOSED SOILS AND STOCKPILES	WITHIN 7 DAYS	1
WITHIN 200 FEET OF A PUBLIC WATER	WITHIN 24 HOURS	7

1. INITIATE STABILIZATION IMMEDIATELY WHEN CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED ON ANY PORTION OF THE SITE. COMPLETE STABILIZATION WITHIN THE TIME FRAME LISTED. IN MANY INSTANCES THIS WILL REQUIRE STABILIZATION TO OCCUR MORE THAN ONCE DURING THE COURSE OF THE PROJECT. TEMPORARY SOIL STOCKPILES WITHOUT SIGNIFICANT CLAY OR SILT AND STOCKPILED AND CONSTRUCTED ROAD BASE ARE EXEMPT FROM THE STABILIZATION REQUIREMENT.
2. STABILIZE WETTED PERIMETER OF DITCH (I.E. WHERE THE DITCH GETS WET).
3. APPLICATION OF MULCH, HYDROMULCH, TACKIFIER AND POLYACRYLAMIDE ARE NOT ACCEPTABLE STABILIZATION METHODS IN THESE AREAS.
4. STABILIZE ALL AREAS OF THE SITE PRIOR TO THE ONSET OF WINTER. ANY WORK STILL BEING PERFORMED WILL BE SNOW MULCHED, SEEDED, AND BLANKETED WITHIN THE TIME FRAMES IN THE NPDES PERMIT.
5. TOPSOIL BERMS MUST BE STABILIZED IN ORDER TO BE CONSIDERED PERIMETER CONTROL BMPS.
6. KEEP DITCHES AND EXPOSED SOILS IN AN EVEN ROUGH GRADED CONDITION IN ORDER TO BE ABLE TO APPLY EROSION CONTROL MULCHES, HYDROMULCHES AND BLANKETS.
7. SEE WATER RESOURCES NOTES FOR A LIST OF PUBLIC WATER EXCLUSION DATES. 24-HR STABILIZATION REQUIREMENT ONLY APPLIES DURING THE EXCLUSION DATES.

PLOT DATE: Apr 24, 2023 - 2:00pm
 FILENAME: K:\a-f\blaine\18153000\04_Production\01_CAD_Phase_1_Gravity\02_Sheets\C002_SWPPP.dwg

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		DRAWN	BJM	444 Cedar Street, Suite 1500 Saint Paul, MN 55101 651.292.4400 tkda.com			
		CHECKED	AMP				
0	04/24/23	DAN	ISSUED FOR BID	SIGNATURE:	DATE: 04/24/23	CITY OF BLAINE CITY PROJECT NO. 21-30	
NO.	DATE	BY	DESCRIPTION OF REVISIONS	NAME: DANIEL A. NESLER	LIC. NO.: 47523		
						SWPPP LIFT STATION 13 FM REPLACEMENT PHASE 1	
						PROJ. NO.	18153.000
						DRAWING NO.	C002
						SHEET NO.	7

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE (CONTINUED)

POLLUTION PREVENTION

1. PROVIDE A SPILL KIT ON THE SITE. SEE SPILL CONTAINMENT PLAN FOR LIST OF EXPECTED POLLUTANTS, PROTECTION MEASURES, AND SPILL RESPONSE PLAN.
2. STORE ALL BUILDING MATERIALS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS, PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, TREATMENT CHEMICALS, AND LANDSCAPE MATERIALS UNDER COVER (E.G PLASTIC SHEETING OR TEMPORARY ROOFS) OR PROTECT BY A SIMILAR EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER.
3. PROVIDE A SECURE STORAGE AREA WITH RESTRICTED ACCESS FOR ALL HAZARDOUS MATERIALS AND TOXIC WASTE. RETURN ALL HAZARDOUS MATERIALS AND TOXIC WASTE TO THE DESIGNATED STORAGE AREA AT THE END OF THE BUSINESS DAY UNLESS INFEASIBLE. STORE ALL HAZARDOUS MATERIALS AND TOXIC WASTE (INCLUDING BUT NOT LIMITED TO OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT, PETROLEUM BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) IN SEALED CONTAINERS WITH SECONDARY CONTAINMENT. CLEAN UP SPILLS IMMEDIATELY.
4. STORE, COLLECT AND DISPOSE OF ALL SOLID WASTE.
5. POSITION ALL PORTABLE TOILETS SO THAT THEY ARE SECURE AND CANNOT BE TIPPED OR KNOCKED OVER. PROPERLY DISPOSE OF ALL SANITARY WASTE.
6. FUEL AND MAINTAIN VEHICLES IN A DESIGNATED CONTAINED AREA WHENEVER FEASIBLE. USE DRIP PANS OR ABSORBENT MATERIALS TO PREVENT SPILLS OR LEAKED CHEMICALS FROM DISCHARGING TO SURFACE WATER OR STORMWATER CONVEYANCES. PROVIDE A SPILL KIT AT EACH LOCATION THAT VEHICLES AND EQUIPMENT ARE FUELED OR MAINTAINED AT.
7. LIMIT VEHICLE AND EQUIPMENT WASHING TO A DEFINED AREA OF THE SITE. CONTAIN RUNOFF FROM THE WASHING AREA TO A TEMPORARY SEDIMENT BASIN OR OTHER EFFECTIVE CONTROL. PROPERLY DISPOSE OF ALL WASTE GENERATED BY VEHICLE AND EQUIPMENT WASHING. ENGINE DEGREASING IS NOT ALLOWED ON THE SITE.
8. PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS. LIQUID AND SOLID WASHOUT WASTES MUST NOT CONTACT THE GROUND. DESIGN THE CONTAINMENT SO THAT IT DOES NOT RESULT IN RUNOFF FROM THE WASHOUT OPERATIONS OR CONTAINMENT AREA.
9. CREATE AND FOLLOW A WRITTEN DISPOSAL PLAN FOR ALL WASTE MATERIALS. INCLUDE IN THE PLAN HOW THE MATERIAL WILL BE DISPOSED OF AND THE LOCATION OF THE DISPOSAL SITE. SUBMIT PLAN TO THE ENGINEER.
10. USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT DISCHARGE OR PLACEMENT OF BITUMINOUS GRINDINGS, CUTTINGS, MILLINGS, AND OTHER BITUMINOUS WASTES FROM AREAS OF EXISTING OR FUTURE VEGETATED SOILS AND FROM ALL WATER CONVEYANCE SYSTEMS, INCLUDING INLETS, DITCHES AND CURB FLOW LINES.
11. USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT CONCRETE DUST, PARTICLES, CONCRETE WASH OUT, AND OTHER CONCRETE WASTES FROM LEAVING MNDOT RIGHT OF WAY, DEPOSITING IN EXISTING OR FUTURE VEGETATED AREAS, AND FROM ENTERING STORMWATER CONVEYANCE SYSTEMS, INCLUDING INLETS, DITCHES AND CURB FLOW LINES. USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT SAW CUT SLURRY AND PLANING WASTE FROM LEAVING MNDOT RIGHT OF WAY AND FROM ENTERING STORMWATER CONVEYANCE SYSTEMS INCLUDING DITCHES AND CULVERTS.
12. WATER FOR DUST CONTROL SHALL BE PROVIDED BY THE CONTRACTOR WITHIN 24 HOURS OF ORDERING BY THE ENGINEER.

WATER RESOURCES NOTES

1. THESE NOTES ALONG WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE ARE INTENDED TO GIVE INFORMATION ON CRITICAL DRAINAGE FEATURES, NATURAL RESOURCES AND CONTRACTOR OPERATIONS THAT MAY IMPACT DRAINAGE AND NATURAL RESOURCES.
2. THE SIZE AND ELEVATION OF CULVERTS, STORM SEWER PIPES, CATCH BASINS, PONDS AND OVERFLOW DEVICES HAVE BEEN SPECIFICALLY DESIGNED TO CONFORM TO MNDOT DESIGN STANDARDS, MINNESOTA POLLUTION CONTROL AGENCY (MPCA) AND WATERSHED DISTRICT PERMIT REQUIREMENTS. THE DESIGN COMPUTATIONS ARE ON FILE WITH THE PROJECT ENGINEER. CHANGING THESE ITEMS OR THE DIRECTION OF FLOW FROM WHAT IS SHOWN ON THE PLANS MAY CAUSE PROBLEMS OFF THE PROJECT AND COULD MEAN THE PROJECT IS OUT OF COMPLIANCE WITH APPROVED DRAINAGE PERMITS. ANY CHANGES TO THE SIZE, ELEVATION OR DIRECTION OF FLOW OF THE DRAINAGE SYSTEM MUST BE APPROVED BY THE WATER RESOURCES ENGINEER OF RECORD.
3. SUBSOIL ALL DISTURBED GREEN SPACES EXCEPT AS LISTED IN 2574.3A.5.
4. ANY SUBSURFACE DRAINAGE TILES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED, REPLACED OR REROUTED, AND CONNECTED TO THE EXISTING TILE OR DRAINAGE SYSTEM TO ENSURE THAT EXISTING UPLAND DRAINAGE IS PERPETUATED. THIS SHOULD BE DONE TO THE APPROVAL AND SATISFACTION OF THE ENGINEER.

THE FOLLOWING WATER RELATED PERMITS APPLY TO THIS PROJECT:

AGENCY	TYPE OF PERMIT
MINNESOTA POLLUTION CONTROL AGENCY (MPCA)	NPDES CONSTRUCTION STORMWATER PERMIT

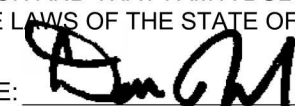
REVIEW ALL PERMITS FOR ANY SPECIAL CONDITIONS THAT WILL AFFECT CONSTRUCTION OF THE PROJECT.


5. TEMPORARY DEWATERING ACTIVITIES MAY BE REQUIRED FOR ROADWAY CONSTRUCTION AND UTILITY WORK. THEREFORE IT IS POSSIBLE THAT A PERMIT FOR THE TEMPORARY APPROPRIATION OF WATERS OF THE STATE, NON-IRRIGATION FROM MNDNR WILL BE REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THIS PERMIT PRIOR TO COMMENCING DEWATERING ACTIVITIES. ALL TEMPORARY DEWATERING SHALL BE DISCHARGED TO AN APPROVED LOCATION FOR TREATMENT PRIOR TO DISCHARGE TO THE RECEIVING WATER. SUBMIT A SITE MANAGEMENT PLAN TO THE ENGINEER FOR APPROVAL A MINIMUM OF 10 DAYS PRIOR TO COMMENCING WORK.
6. THE FOLLOWING TYPES OF WATERS HAVE WORK IN WATER EXCLUSIONS. NO WORK IN THE WATER IS ALLOWED DURING THE EXCLUSION DATES. SEE DNR PERMIT FOR WHICH WATERBODIES THIS APPLIES TO.
7. A 50-FOOT NATURAL BUFFER SHALL BE MAINTAINED AT ALL LAKES AND CREEKS WHERE FEASIBLE. REDUNDANT PERIMETER CONTROL BMPS SHALL BE PLACED WHEN 50-FOOT BUFFER IS NOT FEASIBLE.
8. WORK PERFORMED WITHIN 200 FEET OF A LAKE OR CREEK REQUIRES A SITE MANAGEMENT PLAN IDENTIFYING BMPS THAT WILL BE USED TO PREVENT SEDIMENT, DEBRIS, OR UNTREATED RUNOFF FROM ENTERING THE LAKE OR CREEK. NO ACTIVITY AFFECTING THE BED OF THE LAKE OR CREEK MAY BE CONDUCTED BETWEEN APRIL 1 AND JUNE 30 AND MARCH 15 AND JUNE 15 RESPECTIVELY TO MINIMIZE IMPACTS ON FISH SPAWNING AND MIGRATION.

WATERBODY	EXCLUSION DATES
LAKES	APRIL 1 - JUNE 30
NON-TROUT STREAMS	MARCH 15 - JUNE 15

PLOT DATE: Apr 24, 2023 - 2:00pm
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CITY OF BLAINE
 CITY PROJECT NO. 21-30

SWPPP

LIFT STATION 13 FM REPLACEMENT PHASE 1

PROJ. NO.	18153.000
DRAWING NO.	C003
SHEET NO.	8

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE (CONTINUED)

THREATENED AND ENDANGERED SPECIES

FEDERAL: NORTHERN LONG-EARED BAT. THE REMOVAL OF BRIDGES AND TREES WILL NOT OCCUR BETWEEN APRIL 1 THROUGH OCTOBER 31; THEREFORE, NO IMPACT TO THE NORTHERN LONG-EARED BAT IS ANTICIPATED.

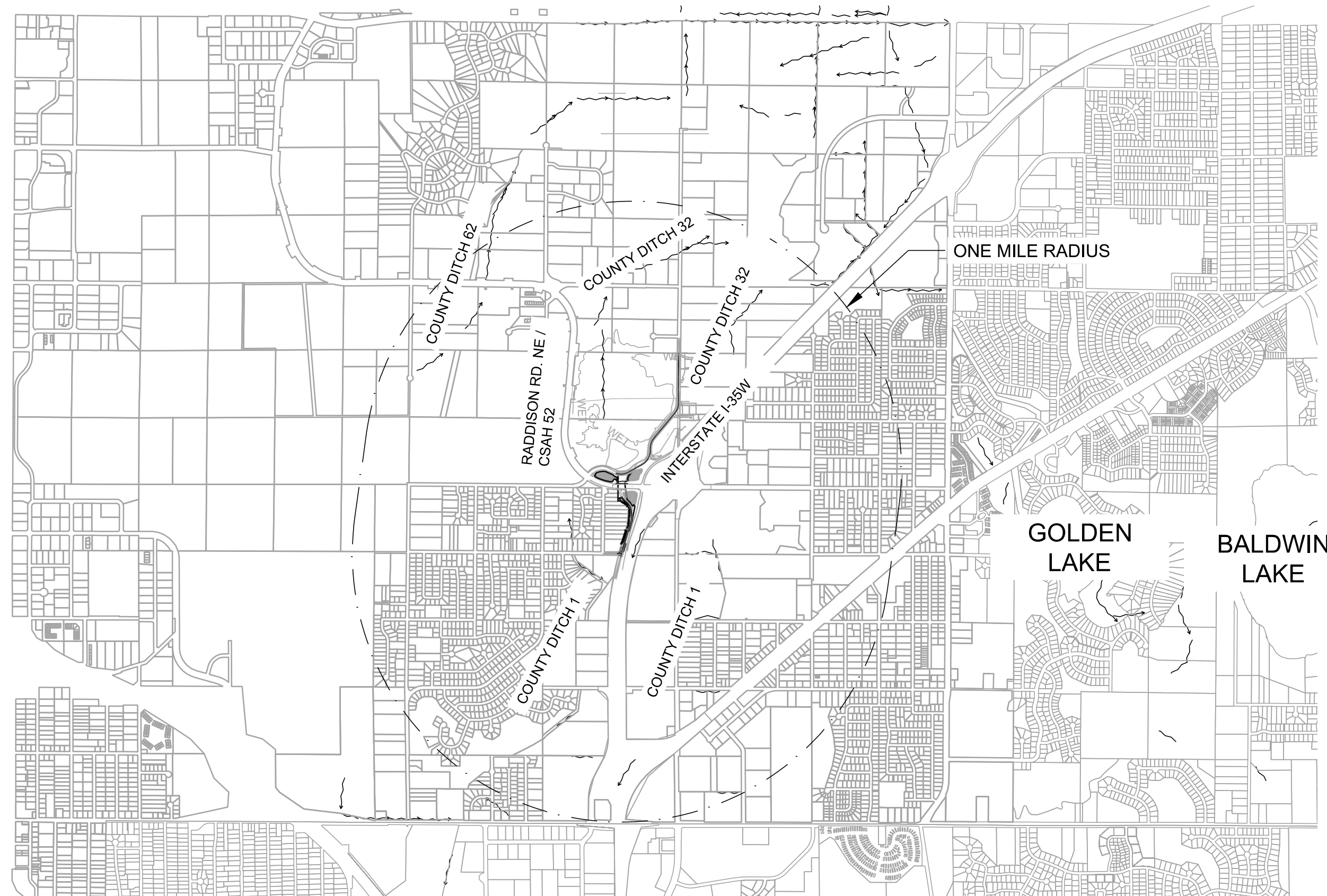
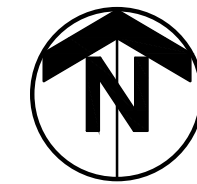
STATE: BLANDING'S TURTLES HAVE BEEN REPORTED IN THE VICINITY OF THE PROJECT AREA AND MAY BE ENCOUNTERED ON SITE. IF TURTLES ARE IN IMMINENT DANGER THEY SHOULD BE MOVED BY HAND OUT OF HARM'S WAY, OTHERWISE THEY SHOULD BE LEFT UNDISTURBED.

CONSTRUCTION SEQUENCING SUMMARY

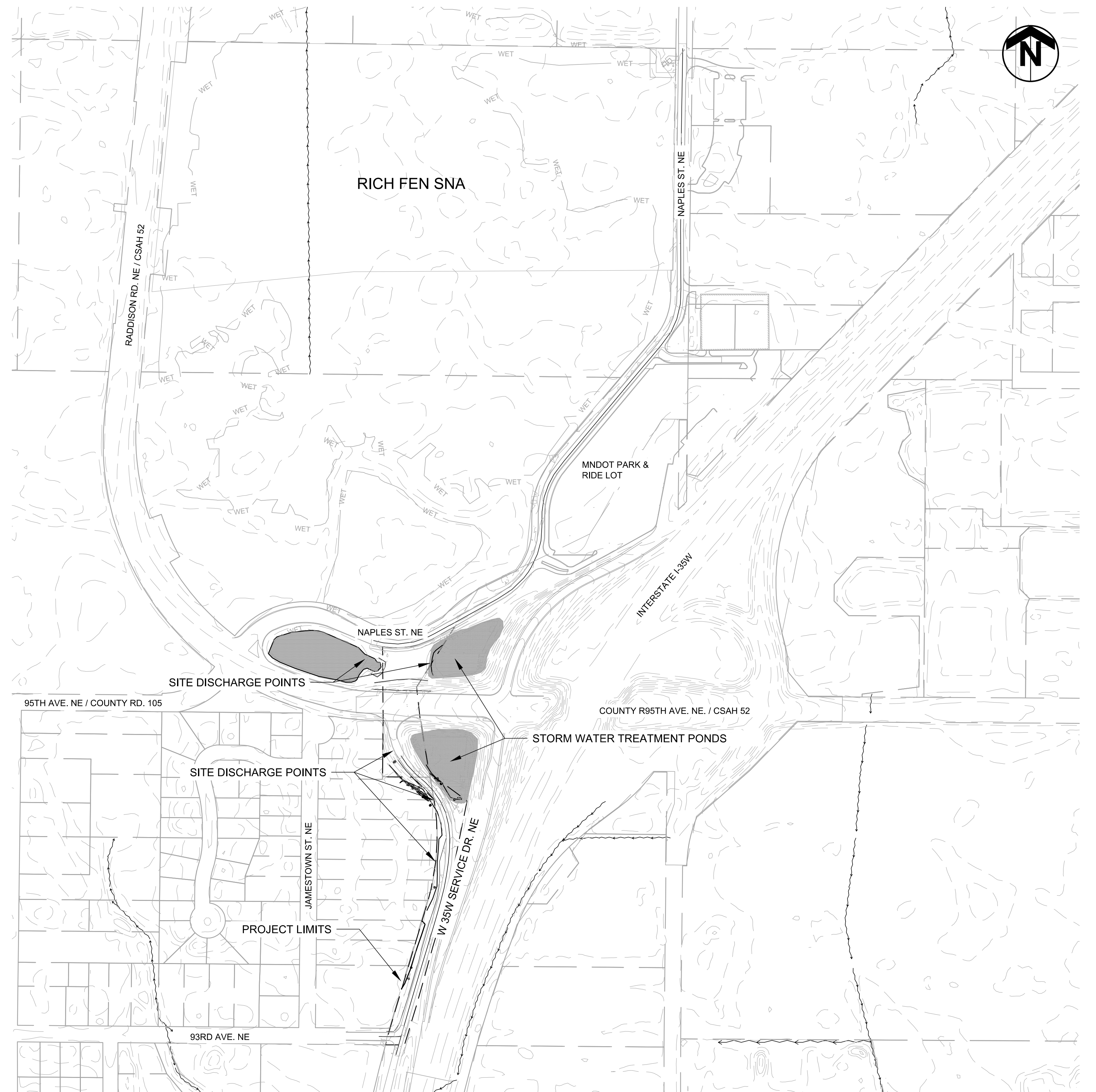
1. LAND DISTURBING ACTIVITY IS EXPECTED TO BEGIN MAY 2023 AND BE COMPLETED BY AUGUST 2023.
2. CONSTRUCTION WILL BE PHASED AND STAGED WHERE FEASIBLE TO MINIMIZE THE DURATION OF EXPOSED SOIL AREAS.

ESTIMATED EROSION PREVENTION & SEDIMENT CONTROL QUANTITIES

ITEM	UNIT	QUANTITY
WATER FOR DUST CONTROL	MGAL	XX
STABILIZED CONSTRUCTION EXIT	EACH	1
STREET SWEEPER (WITH PICKUP BROOM)	LUMP SUM	1
SEDIMENT CONTROL LOG TYPE COMPOST	LIN FT	2580
INLET PROTECTION	EACH	8
TOPSOIL BORROW (SUPPLEMENTAL, USE AS NEEDED)	CU YD	100
SALVAGE AND REINSTALL TOPSOIL	CU YD	1180
SODDING TYPE SALT TOLERANT	SQ YD	0
FERTILIZER TYPE 1 (200LBS/ACRE)	POUND	292
RAPID STABILIZATION METHOD 1	ACRE	1.46



SURFACE WATER MAP



OFFSITE DRAINAGE MAP

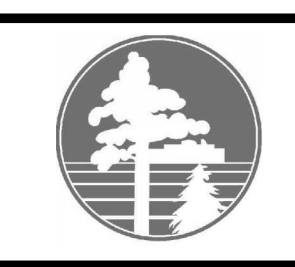
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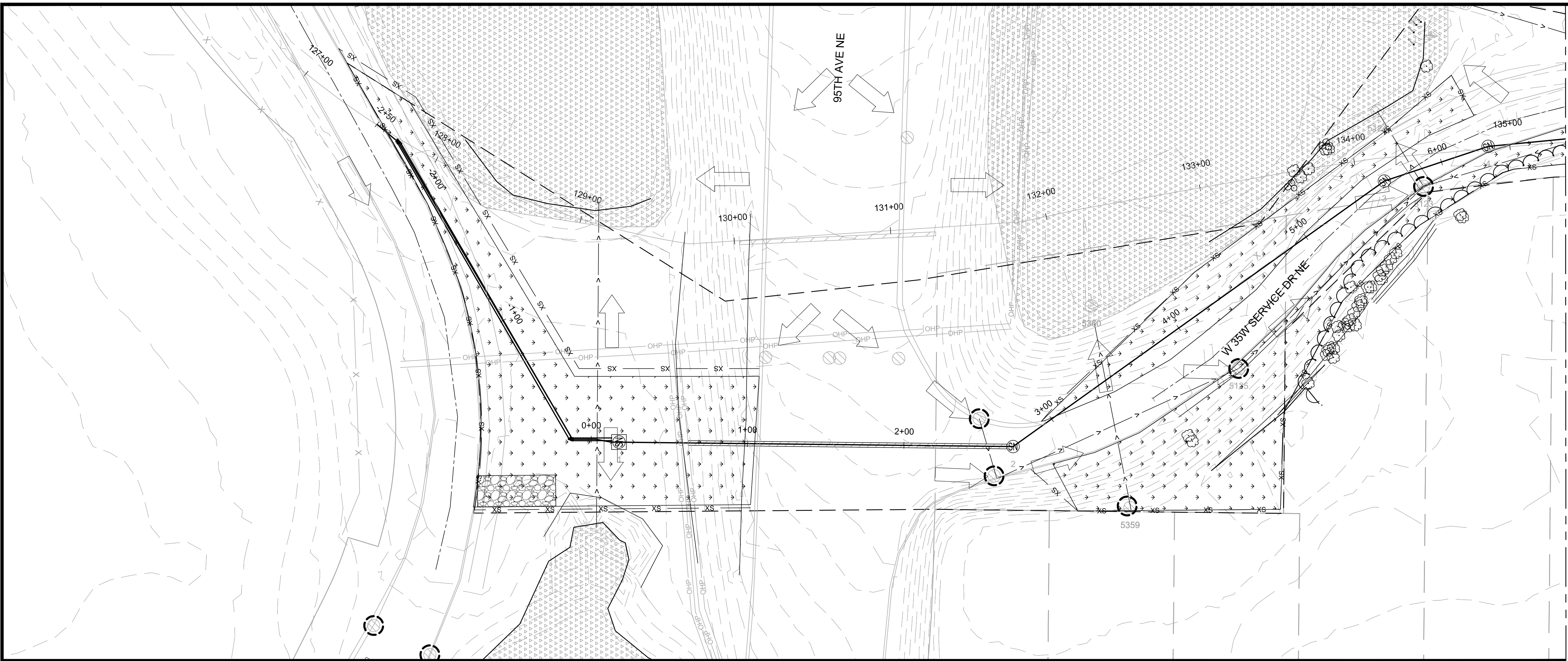
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SWPPP	
LIFT STATION 13 FM REPLACEMENT PHASE 1	

PROJ. NO.	18153.000
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SHEET NO.	9



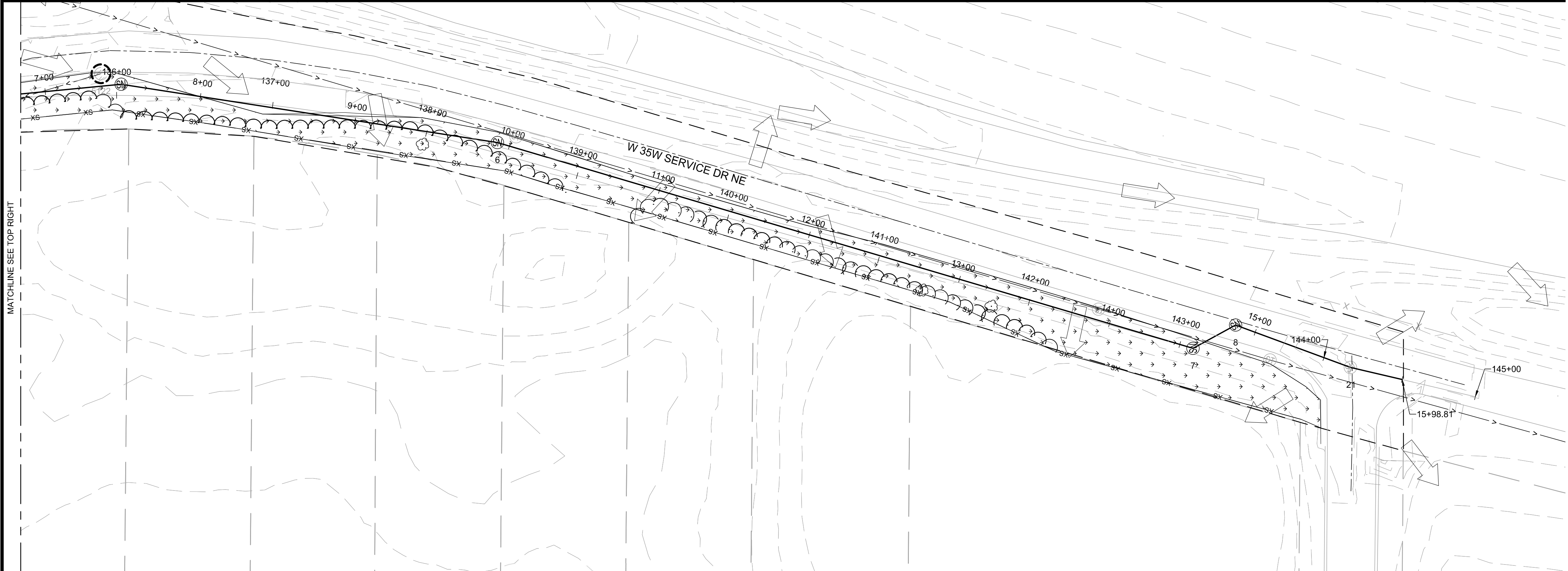
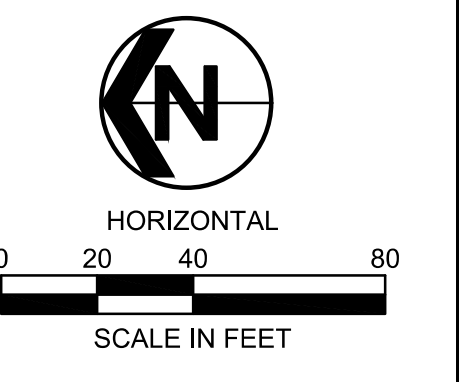
MATCHLINE SEE BOTTOM LEFT

GENERAL NOTES:

1. COMPLETE TURF ESTABLISHMENT OF ALL DISTURBED AREAS WITH TOPSOIL, SEED & MULCH.
2. PLAN VIEW LOCATION OF SILT FENCE AND BIOROLLS USED FOR PERIMETER CONTROL IS APPROXIMATE. FINAL LOCATION WILL BE DETERMINED IN THE FIELD.
3. SEE SHEETS C006 FOR EROSION CONTROL DETAILS.
4. CONTRACTOR TO PROTECT NEW STRUCTURES WITH INLET PROTECTION (INCIDENTAL)

LEGEND

- INLET PROTECTION
- SURFACE FLOW DIRECTION
- XS SILT FENCE
- ROCK CONSTRUCTION EXIT
- TURF RESTORATION
- CONSTRUCTION LIMITS
- EDGE OF VEGETATION



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PLOT DATE: Apr 24, 2023 - 2:01pm
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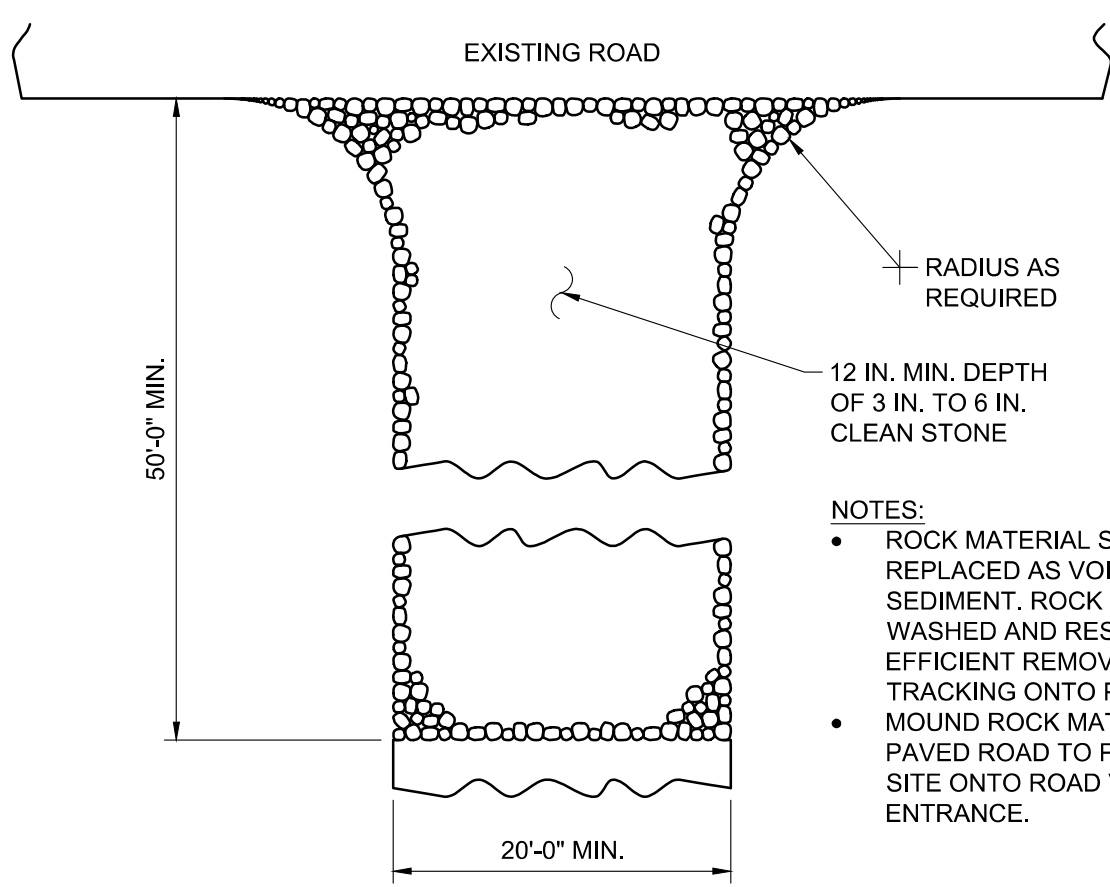
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CITY OF BLAINE
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EROSION CONTROL PLAN

LIFT STATION 13 FM REPLACEMENT PHASE 1

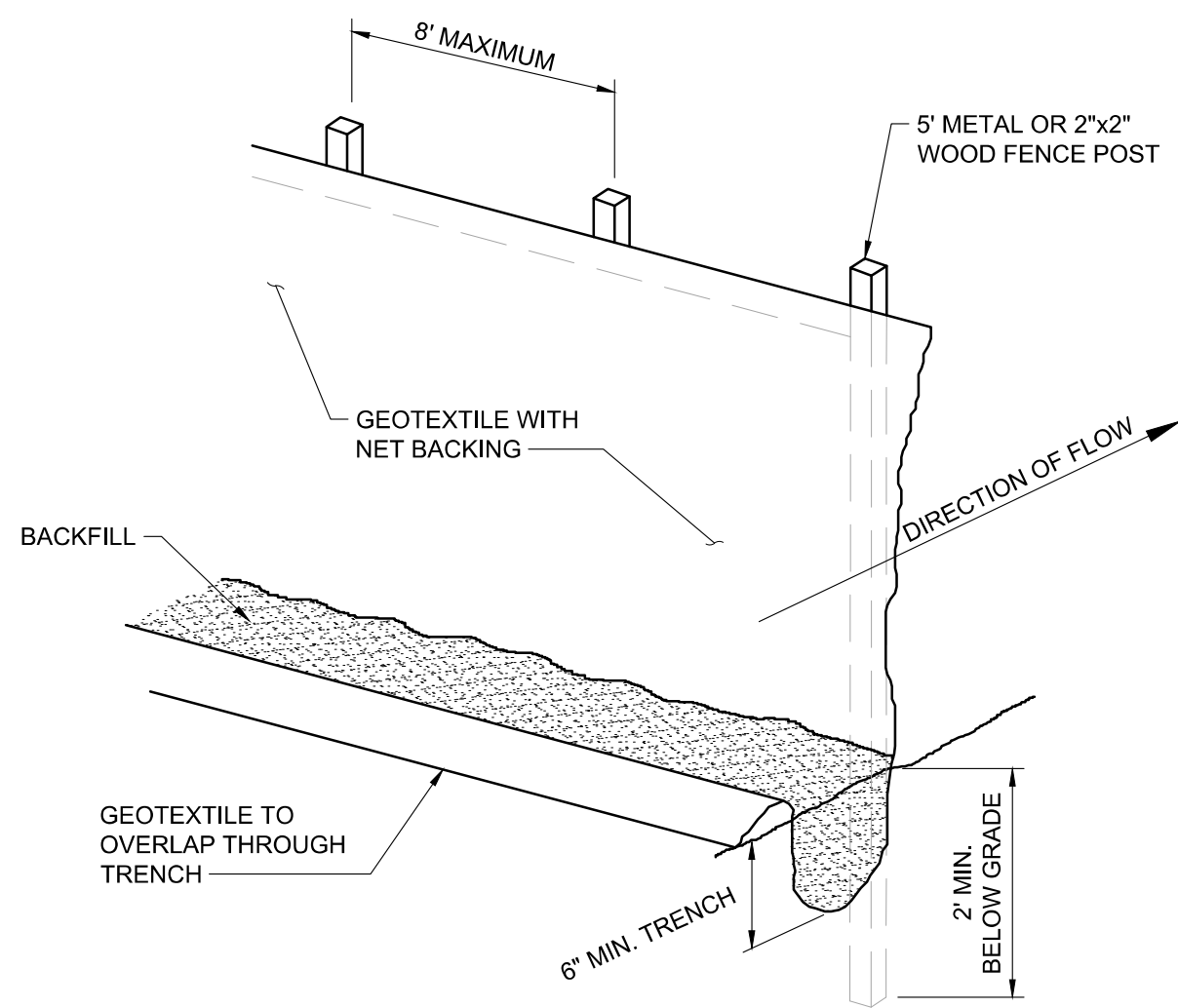
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DRAWING NO.	C005
SHEET NO.	10



NOTES:

- ROCK MATERIAL SHALL BE REMOVED AND REPLACED AS VOIDS BECOME FILLED WITH SEDIMENT. ROCK MAY ALSO BE REMOVED, WASHED AND RESET TO ENSURE EFFICIENT REMOVAL AND PREVENT TRACKING ONTO PUBLIC ROADWAYS.
- MOUND ROCK MATERIAL AT ENTRANCE TO PAVED ROAD TO PREVENT RUNOFF FROM SITE ONTO ROAD VIA CONSTRUCTION ENTRANCE.

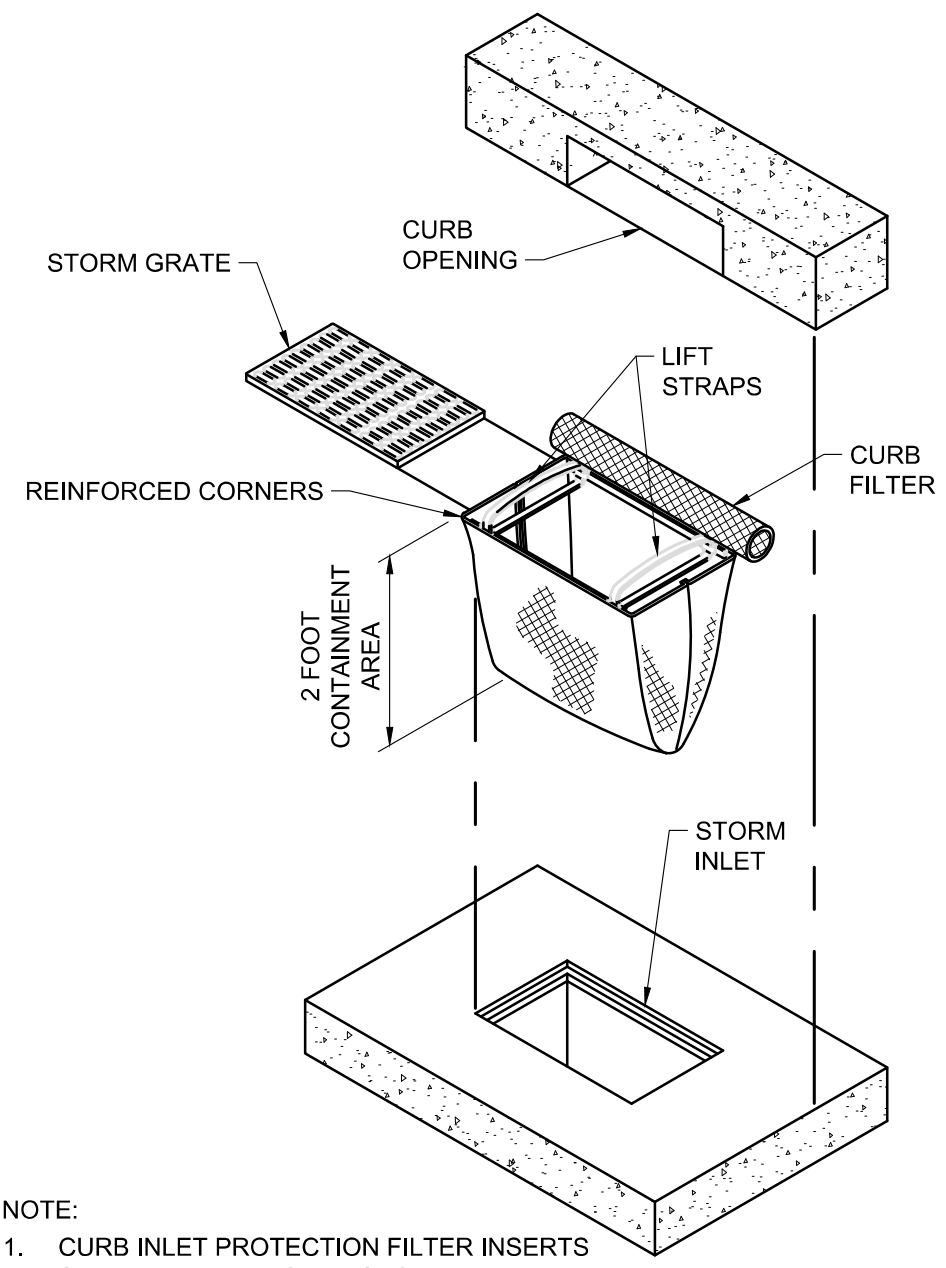
1 ROCK CONSTRUCTION EXIT
C006 NO SCALE



NOTE:

- SILT FENCE SHALL CONFORM TO MNDOT 3886, TYPE B.
- FENCING SHALL BE PLACED ALONG CONTOURS OR AS DIRECTED BY ENGINEER.

2 SILT FENCE
C006 NO SCALE



NOTE:

- CURB INLET PROTECTION FILTER INSERTS SHALL BE DANDY CURB SACK, DANDY PRODUCTS INC. OR APPROVED EQUAL.

3 STORM INLET PROTECTION DETAIL
C006 NO SCALE

PLOT DATE: Apr 24, 2023 - 2:01pm
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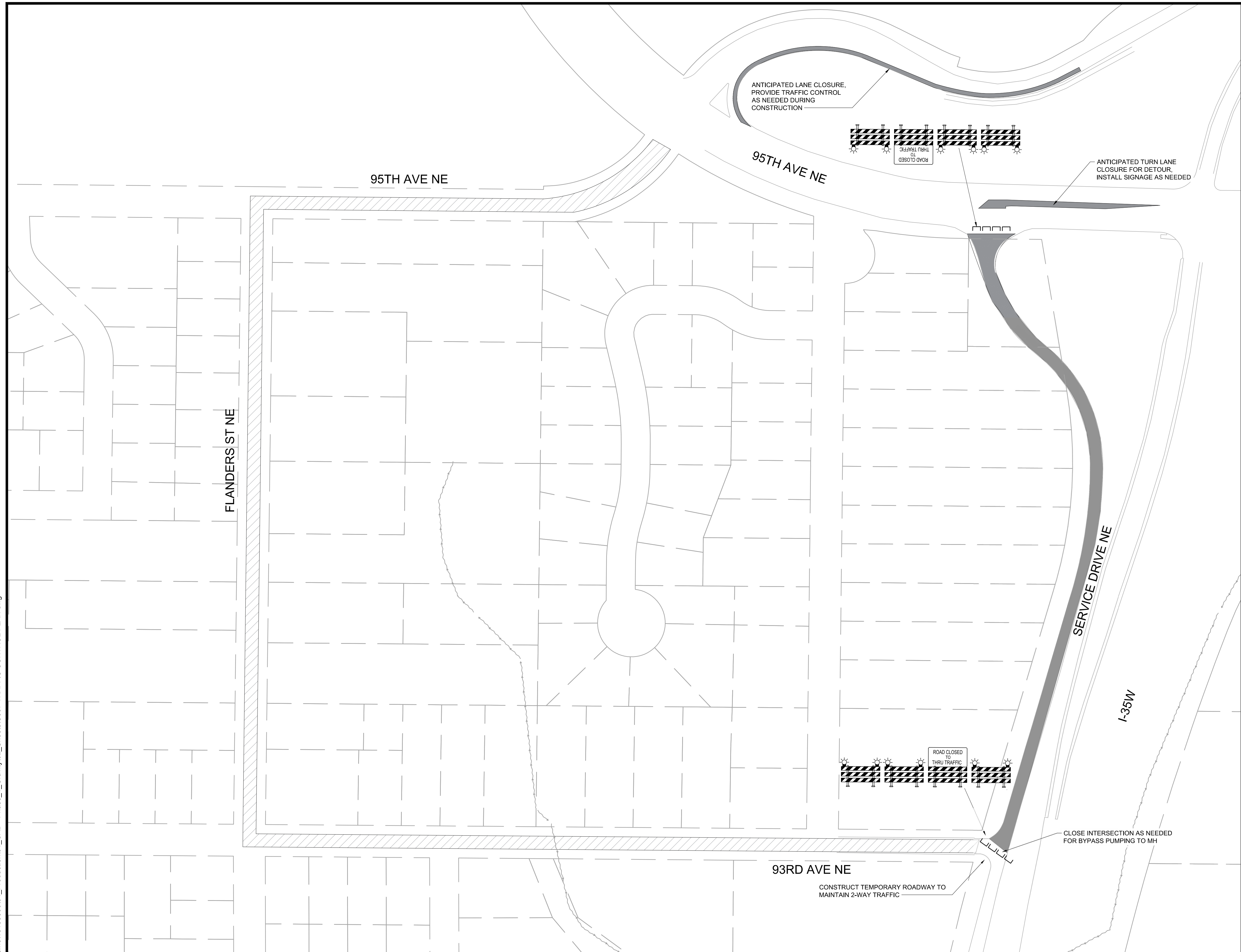
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CITY PROJECT NO. 21-30

EROSION CONTROL DETAILS

LIFT STATION 13 FM REPLACEMENT PHASE 1

PROJ. NO.	18153.000
DRAWING NO.	C006
SHEET NO.	11

PLOT DATE: Apr 24, 2023 - 2:01pm
 FILENAME: K:\a-f\blaine\18153000\04_Production\01_CAD - Phase_1_Gravity\02_Sheets\007 TRAFFIC CONTROL PLAN.dwg



TRAFFIC CONTROL NOTES:

1. CLOSE SERVICE DR NE AS REQUIRED FOR THE WORK.
2. PROVIDE ADVANCE NOTICE OF ALL CLOSURES.
3. PROVIDE DETOUR AND SIGNAGE PER MN MUTCD (MOST CURRENT).
4. CONTRACTOR TO SUBMIT TRAFFIC CONTROL PLAN FOR DETOUR ROUTE FOR APPROVAL BY ENGINEER.

TRAFFIC CONTROL NARRATIVE:

PHASE 1A:

- CONSTRUCTION:
1. CONSTRUCTION OF FM CONNECTION AND GRAVITY PIPE UNDER 95TH AVENUE NE.

- TRAFFIC:
1. PROVIDE SIGNAGE AND TEMPORARY LANE SHIFTS AS NEEDED FOR THE WORK. NO CLOSURES ARE ANTICIPATED.

PHASE 1B:

- CONSTRUCTION:
1. CONSTRUCTION OF GRAVITY PIPE ALONG SERVICE DRIVE NE AND DEMOLITION AND ABANDONMENT OF EXISTING FM.

- TRAFFIC:
1. CLOSE W 35W SERVICE DRIVE NE BETWEEN 93RD AVENUE NE AND 95TH AVENUE NE AS REQUIRED FOR THE WORK.
 2. PROVIDE DETOUR ROUTE AS SHOWN.
 3. CONTRACTOR TO SUBMIT TRAFFIC CONTROL PLAN FOR DETOUR ROUTE AND ROAD CLOSURE FOR APPROVAL BY OWNER AND ENGINEER.

KEY

- ANTICIPATED ROAD CLOSURE
- ANTICIPATED DETOUR ROUTE

NO.	DATE	BY	DESCRIPTION OF REVISIONS
0	04/24/23	DAN	ISSUED FOR BID

DESIGNED	BJM	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. SIGNATURE: DATE: 04/24/23 NAME: DANIEL A. NESLER LIC. NO.: 47523
DRAWN	BJM	
CHECKED	AMP	

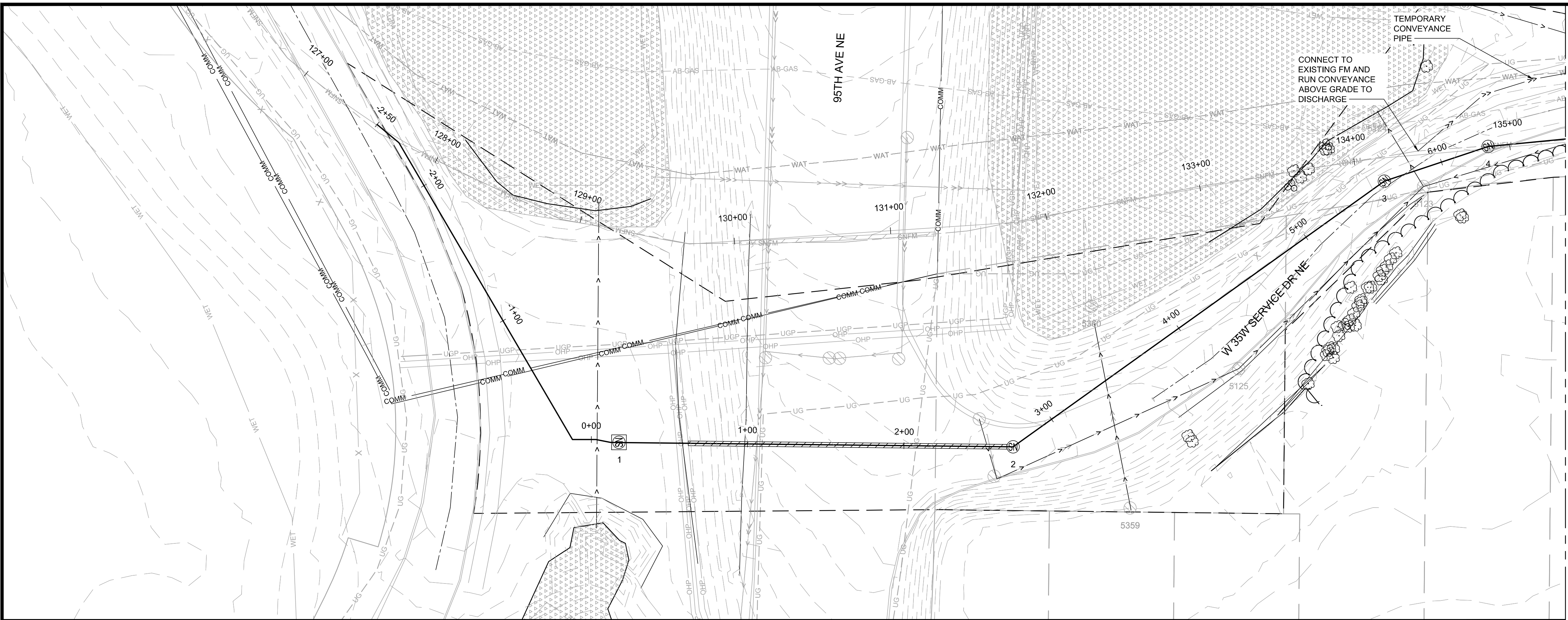
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CITY OF BLAINE
 CITY PROJECT NO. 21-30

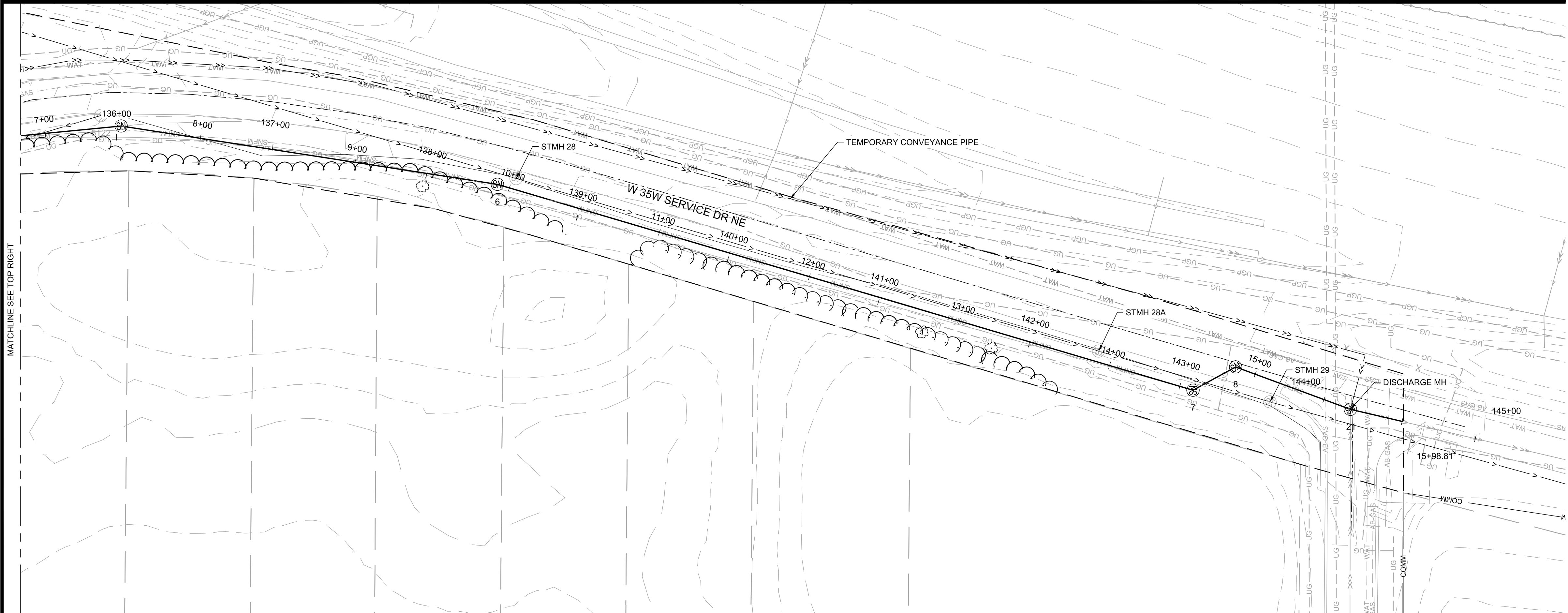
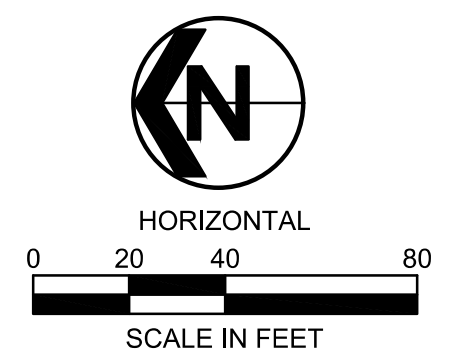
TRAFFIC CONTROL PLAN

LIFT STATION 13 FM REPLACEMENT PHASE 1

PROJ. NO.	18153.000
DRAWING NO.	C007
SHEET NO.	12



- GENERAL NOTES:**
1. THIS TEMPORARY CONVEYANCE PLAN IS CONCEPTUAL. FINAL PLAN SHALL BE DESIGNED BY CONTRACTOR AND APPROVED BY ENGINEER PRIOR TO BEGINNING THE WORK.
 2. INSTALL AND TEST CONVEYANCE PIPE PRIOR TO TYING INTO EXISTING FORCE MAIN. COORDINATE SYSTEM SWITCH OVER WITH CITY
 3. RESTORE ALL AREAS DISTURBED BY TEMPORARY CONVEYANCE TO EXISTING CONDITIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS



PLOT DATE: Apr 24, 2023 - 2:02pm
 FILENAME: K:\a-f\blaine\18153000\04_Production\01_CAD - Phase 1_Gravity\02_Sheets\C008 TEMPORARY CONVEYANCE PLAN.dwg
 MATCHLINE SEE TOP RIGHT

NO.	DATE	BY	DESCRIPTION OF REVISIONS
0	04/24/23	DAN	ISSUED FOR BID

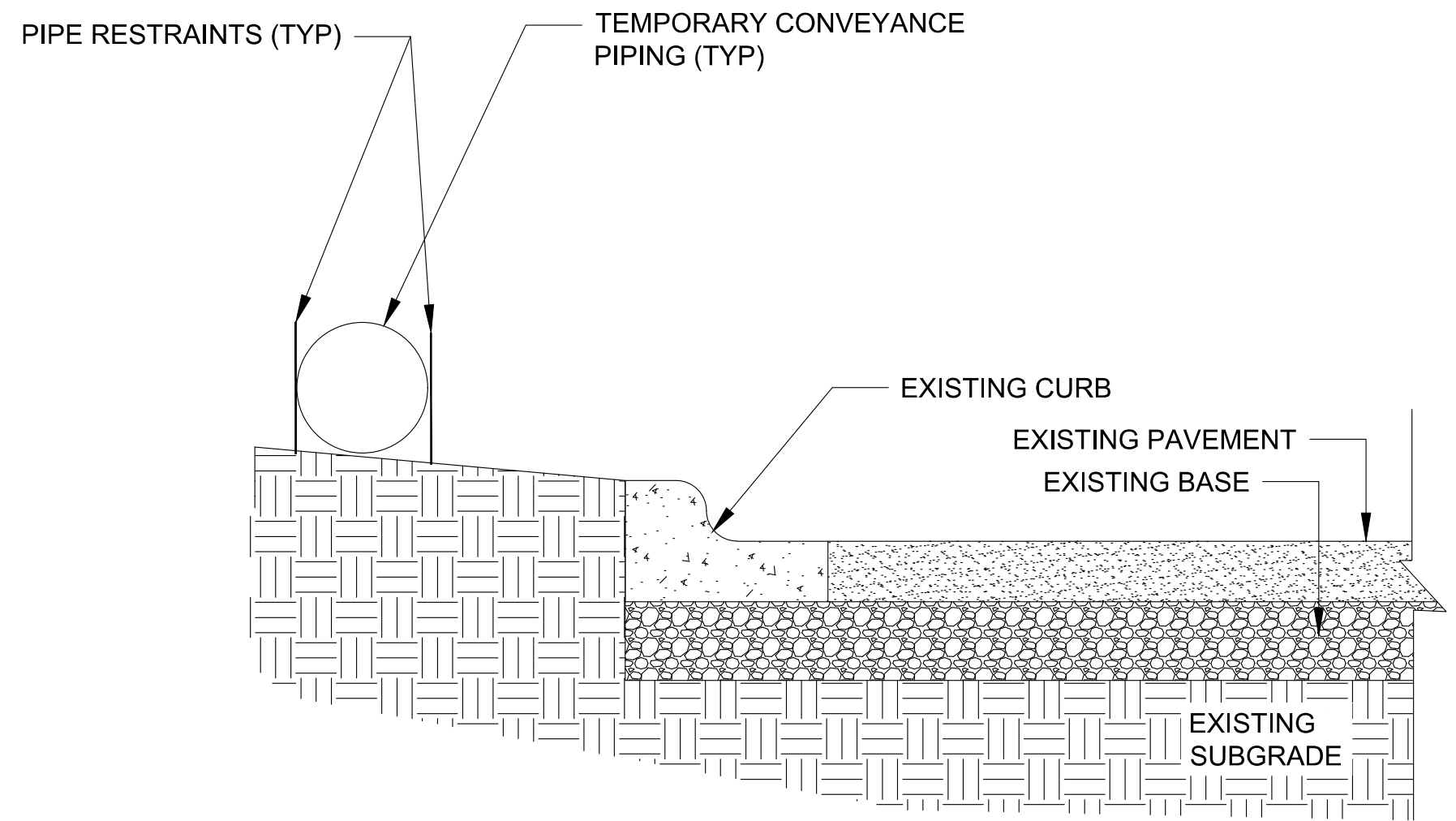
DESIGNED	BJM	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. SIGNATURE: <i>DAN NESLER</i> DATE: 04/24/23 NAME: DANIEL A. NESLER LIC. NO.: 47523
DRAWN	BJM	
CHECKED	AMP	


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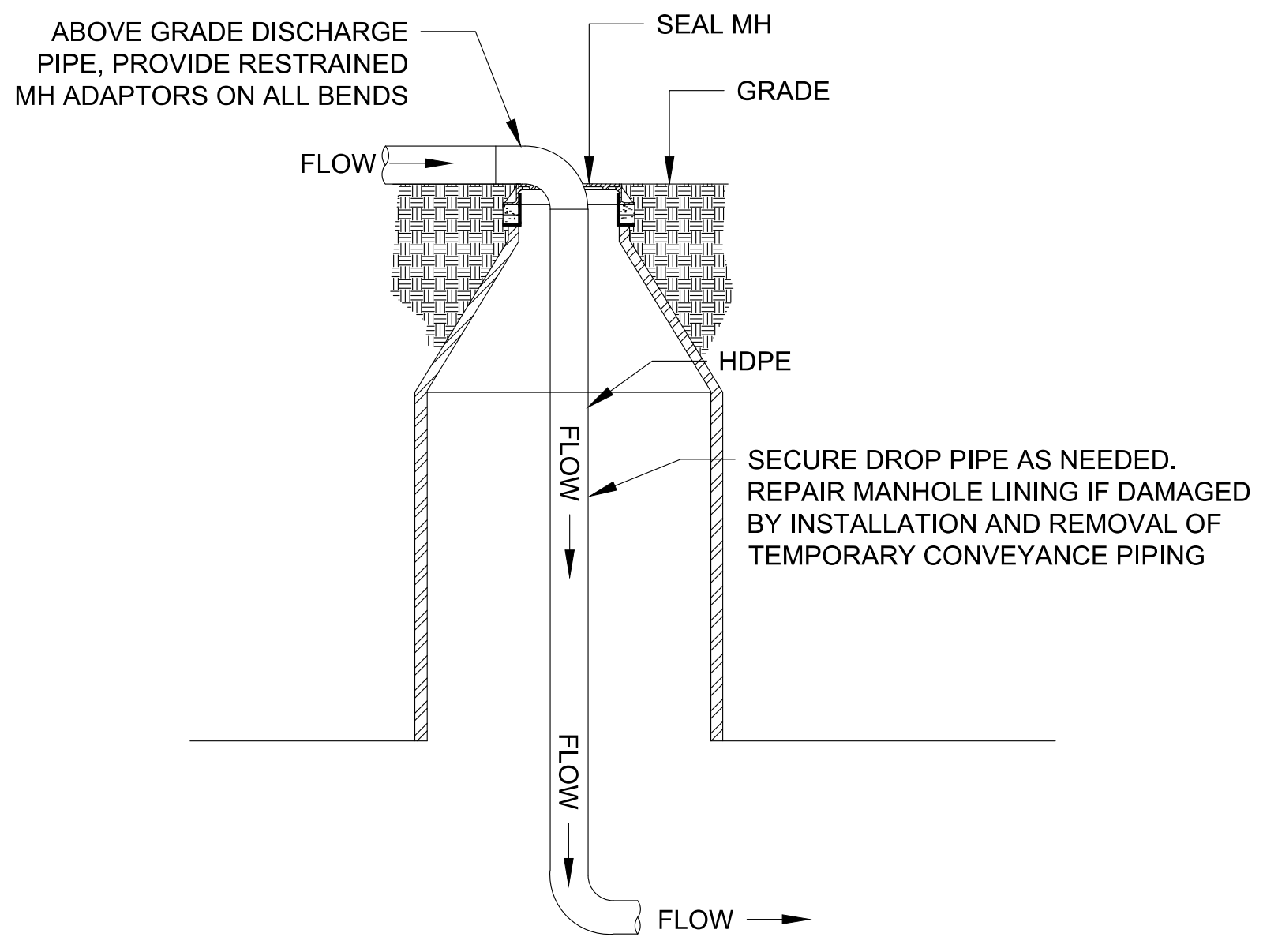

CITY OF BLAINE
 CITY PROJECT NO. 21-30

TEMPORARY CONVEYANCE PLAN
LIFT STATION 13 FM REPLACEMENT PHASE 1

PROJ. NO.	18153.000
DRAWING NO.	C008
SHEET NO.	13



1
C009
TEMPORARY CONVEYANCE BLVD/OPEN SPACE INSTALLATION
NO SCALE



NOTE:
DO NOT BLOCK 93RD AVENUE SEWER DISCHARGE LINE WITH TEMPORARY CONVEYANCE PIPING

2
C009
TEMPORARY CONVEYANCE DISCHARGE
NO SCALE

PLOT DATE: Apr 24, 2023 - 2:02pm
 FILENAME: K:\a-f\blaine\18153000\04_Production\01_CAD - Phase_1_Gravity\02_Sheets\C009 TEMPORARY CONVEYANCE DETAILS.dwg

NO.	DATE	BY	DESCRIPTION OF REVISIONS
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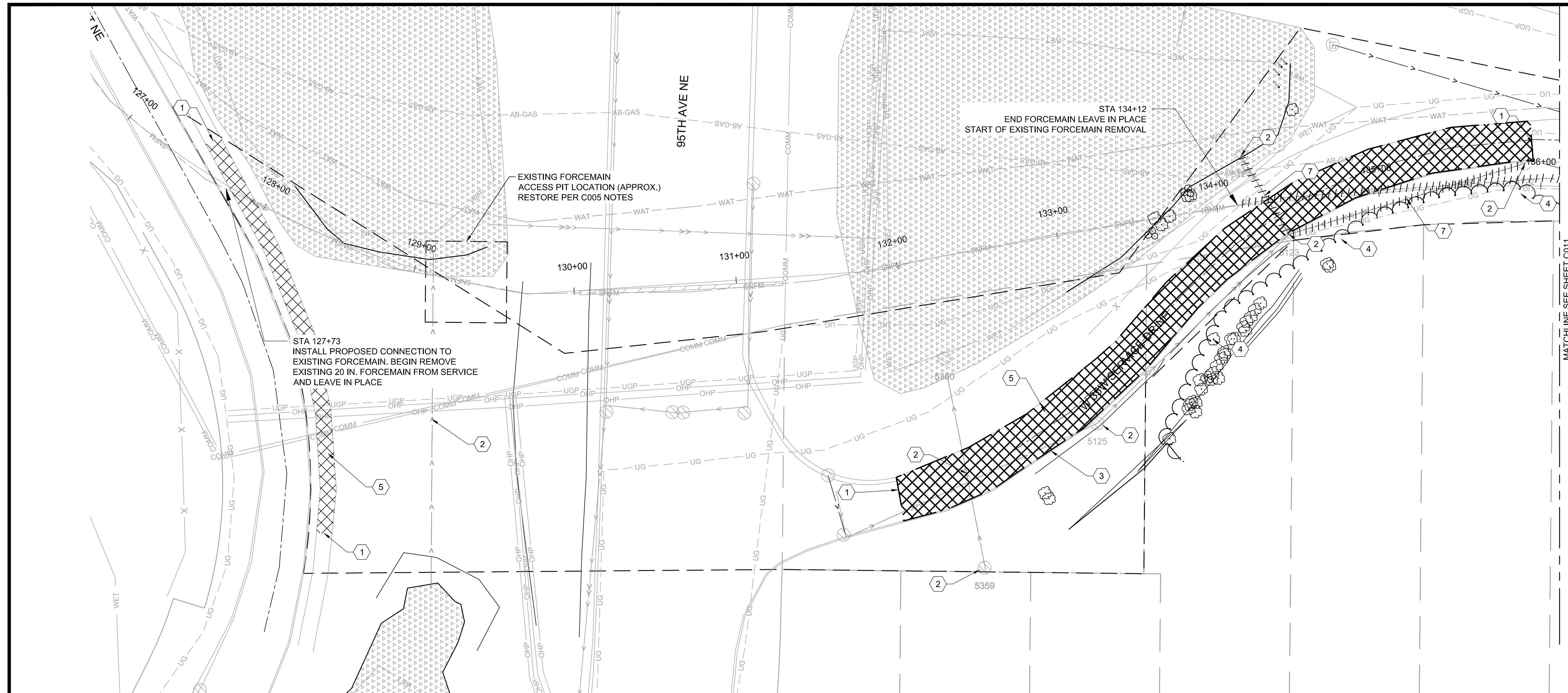
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DRAWN	BJM	
CHECKED	AMP	

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CITY OF BLAINE
 CITY PROJECT NO. 21-30

TEMPORARY CONVEYANCE DETAILS	
LIFT STATION 13 FM REPLACEMENT PHASE 1	

PROJ. NO.	18153.000
DRAWING NO.	C009
SHEET NO.	14



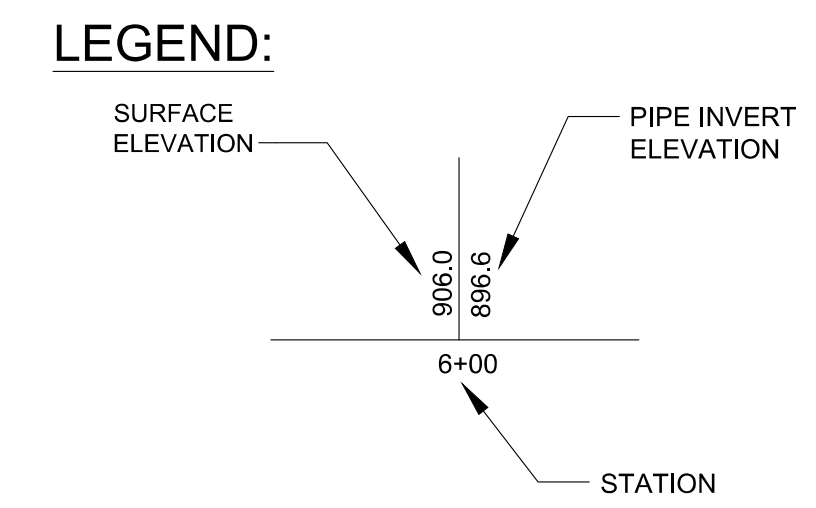
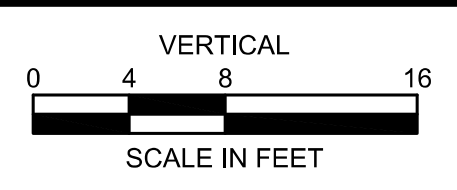
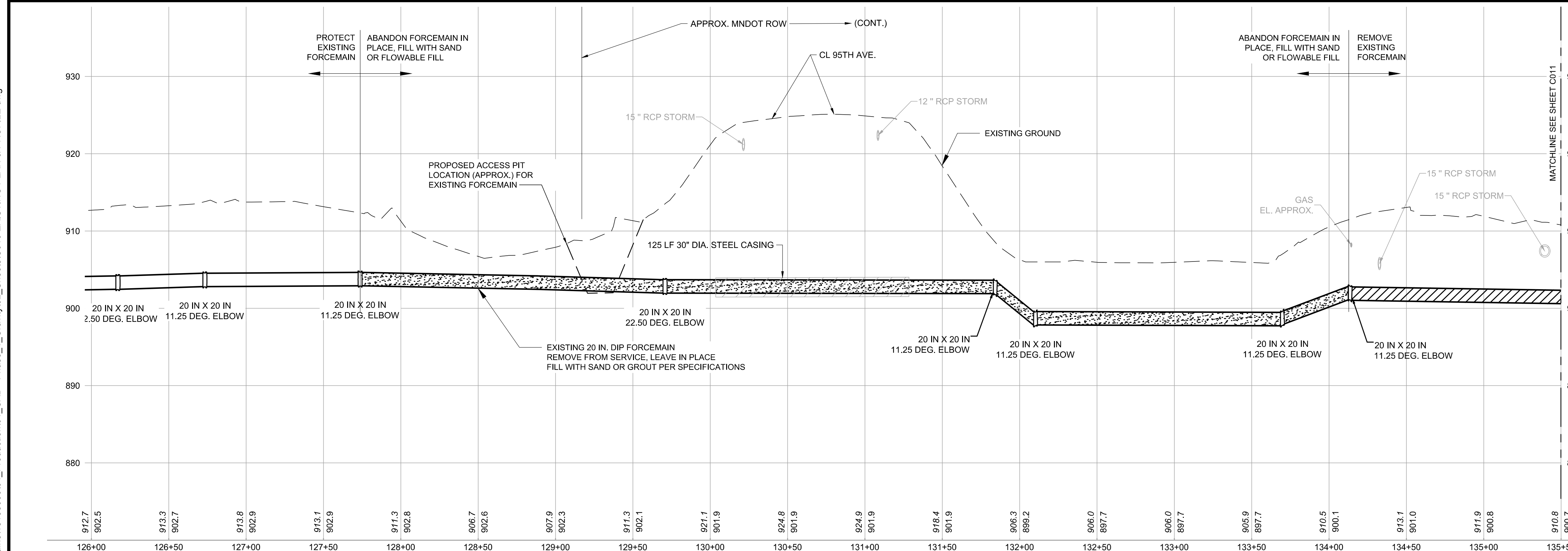
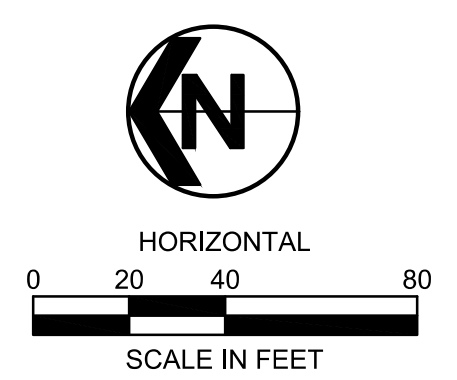
GENERAL NOTES:

- PAVEMENT REMOVALS BEYOND AREA SHOWN REQUIRE APPROVAL BY OWNER.
- REMOVE AND REINSTALL FENCE AS NEEDED FOR CONSTRUCTION.

KEY NOTES:

- SAWCUT BITUMINOUS PAVEMENT
- PROTECT STORM SEWER PIPE AND STRUCTURES, SEE MH SCHEDULE SHEET G005
- REMOVE B612 CURB & GUTTER
- CLEAR AND GRUB AS REQUIRED
- REMOVE BITUMINOUS PAVEMENT
- PROTECT EXISTING BITUMINOUS AND REDUCE IMPACTS
- REMOVE STORM SEWER PIPE

TREE REMOVAL			
DESCRIPTION	SIZE	X	Y
DECIDUOUS	4"	520260.85	138785.56
DECIDUOUS	7"	520323.83	138388.26
DECIDUOUS	6"	520230.57	138069.21
DECIDUOUS	5"	520220.27	138024.93



PLOT DATE: Apr 24, 2023 - 2:03pm
 FILENAME: K:\a-f\blaine\18153000\04_Production\01_CAD - Phase 1_Gravity\02_Sheets\010 EXISTING PLAN & PROFILE.dwg

NO.	DATE	BY	DESCRIPTION OF REVISIONS
0	04/24/23	DAN	ISSUED FOR BID

DESIGNED: BJM
 DRAWN: BJM
 CHECKED: AMP
 I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 SIGNATURE: *[Signature]* DATE: 04/24/23
 NAME: DANIEL A. NESLER LIC. NO.: 47523

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CITY OF BLAINE
 CITY PROJECT NO. 21-30

EXISTING-REMOVAL PLAN & PROFILE
 LIFT STATION 13 FM REPLACEMENT PHASE 1
 PROJ. NO. 18153.000
 DRAWING NO. C010
 SHEET NO. 15

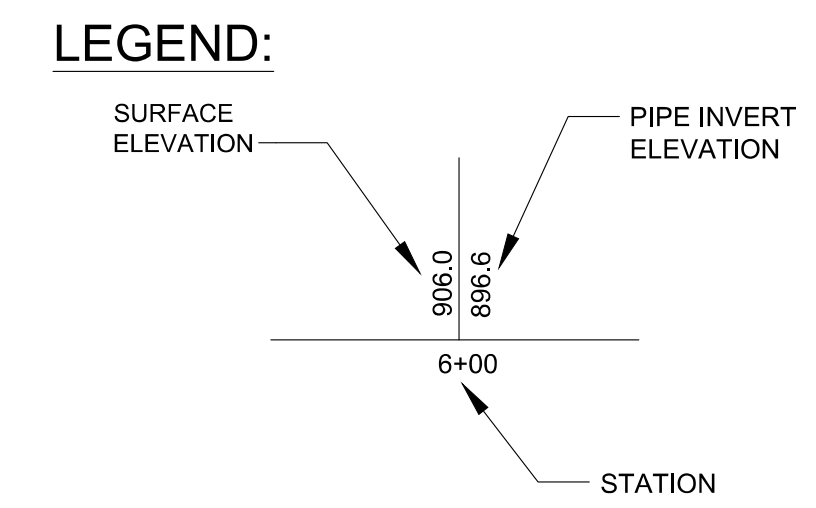
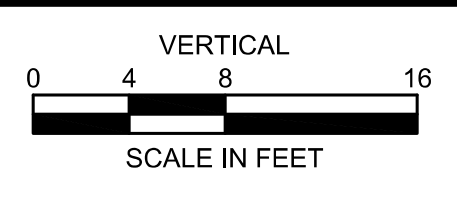
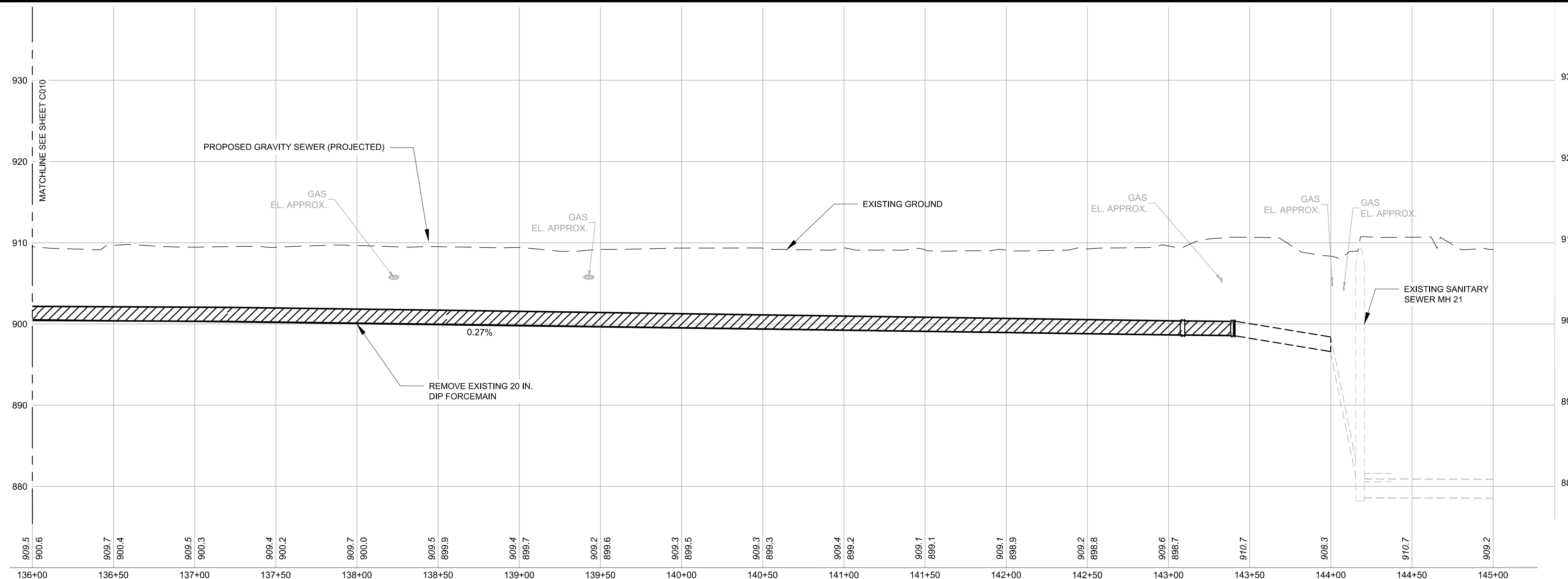
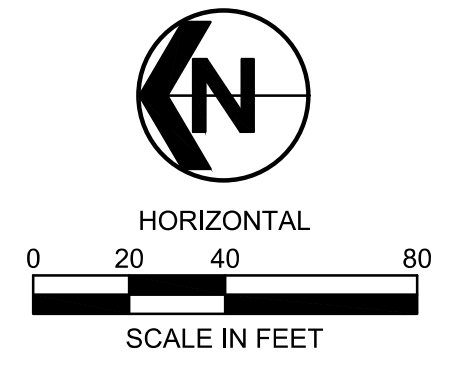
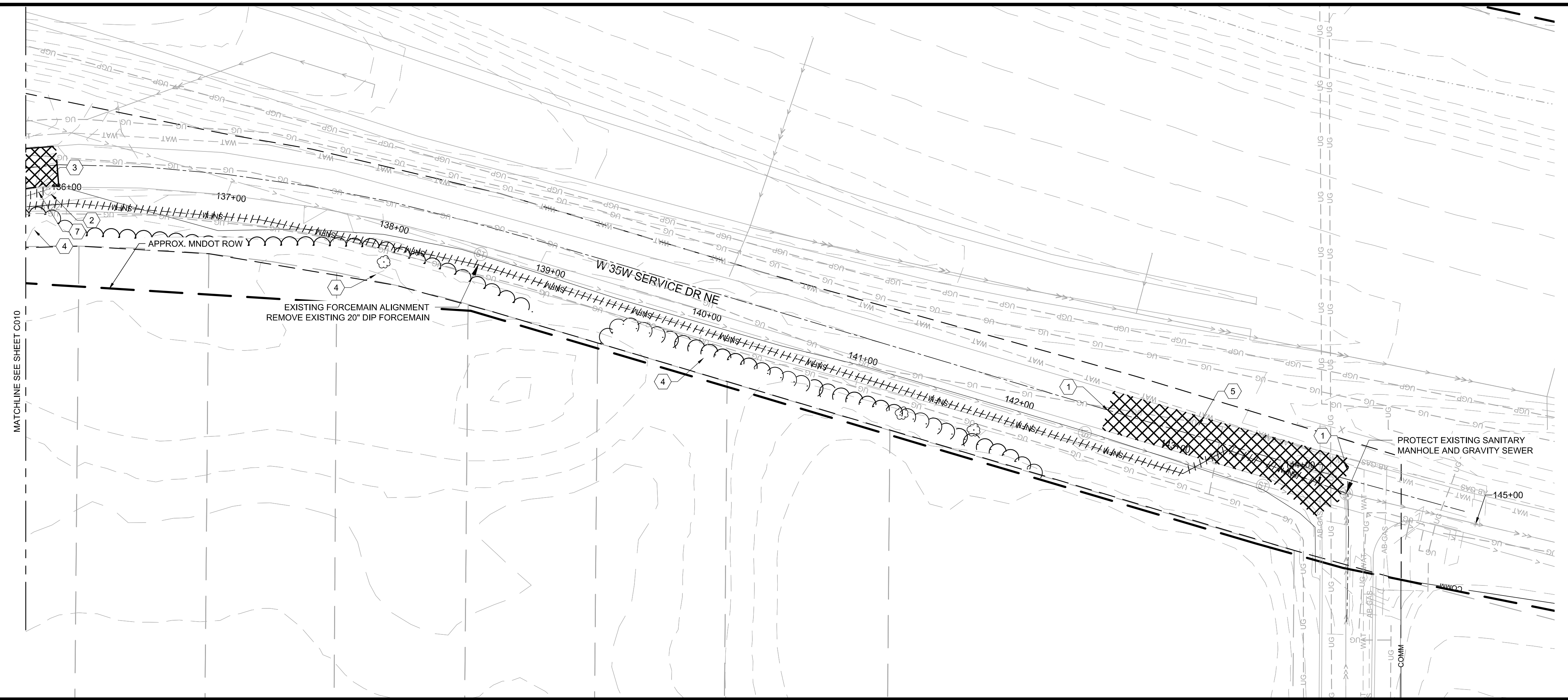
GENERAL NOTES:

1. PAVEMENT REMOVALS BEYOND AREA SHOWN REQUIRE APPROVAL BY OWNER.
2. REMOVE AND REINSTALL FENCE AS NEEDED FOR CONSTRUCTION.

KEY NOTES: ☐

1. SAWCUT BITUMINOUS PAVEMENT
2. PROTECT STORM SEWER PIPE AND STRUCTURES, SEE MH SCHEDULE SHEET G005
3. REMOVE B612 CURB & GUTTER
4. CLEAR AND GRUB AS REQUIRED
5. REMOVE BITUMINOUS PAVEMENT
6. PROTECT EXISTING BITUMINOUS AND REDUCE IMPACTS
7. REMOVE STORM SEWER PIPE

TREE REMOVAL			
DESCRIPTION	SIZE	X	Y
DECIDUOUS	4"	520260.85	138785.56
DECIDUOUS	7"	520323.83	138388.26
DECIDUOUS	6"	520230.57	138069.21
DECIDUOUS	5"	520220.27	138024.93



PLOT DATE: Apr 24, 2023 - 2:04pm
 FILENAME: K:\a-f\blaine\18153000\04_Production\01_CAD - Phase_1_Gravity\02_Sheets\0111_EXISTING PLAN & PROFILE.dwg

DESIGNED	BJM	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. SIGNATURE: <i>Daniel A. Nesler</i> DATE: 04/24/23 NAME: DANIEL A. NESLER LIC. NO.: 47523
DRAWN	BJM	
CHECKED	AMP	

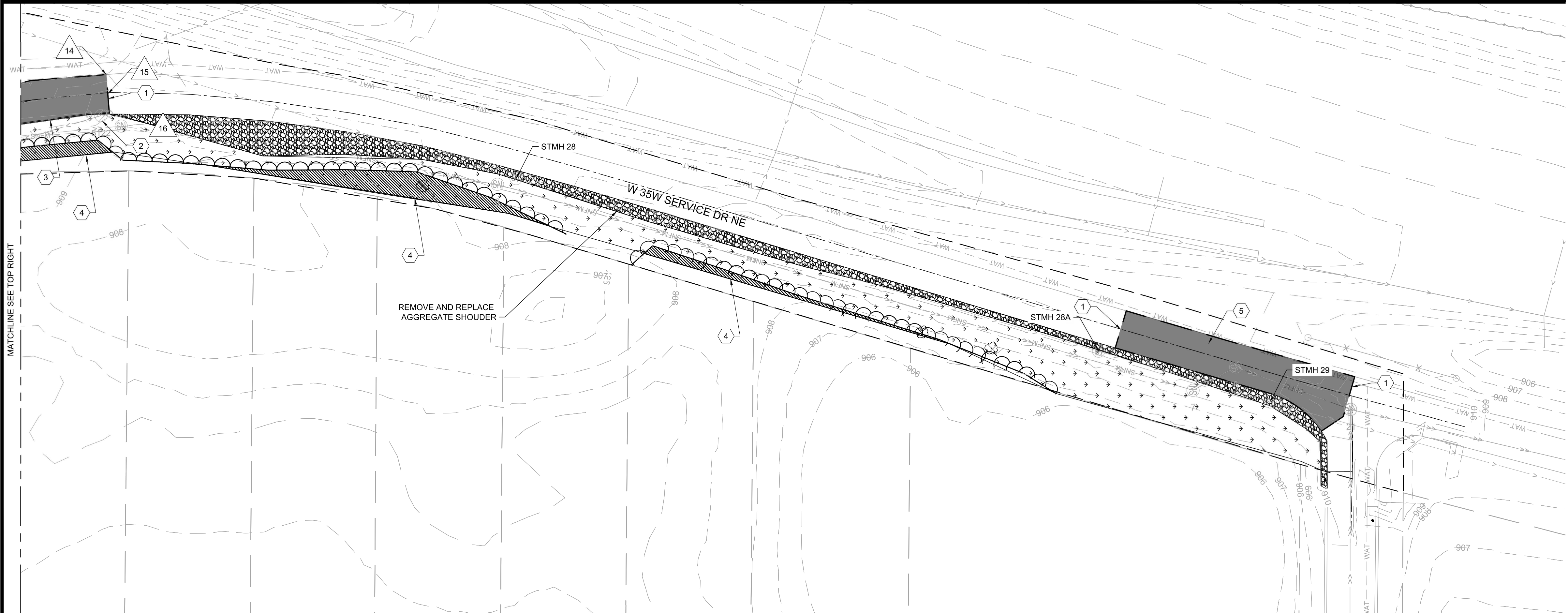
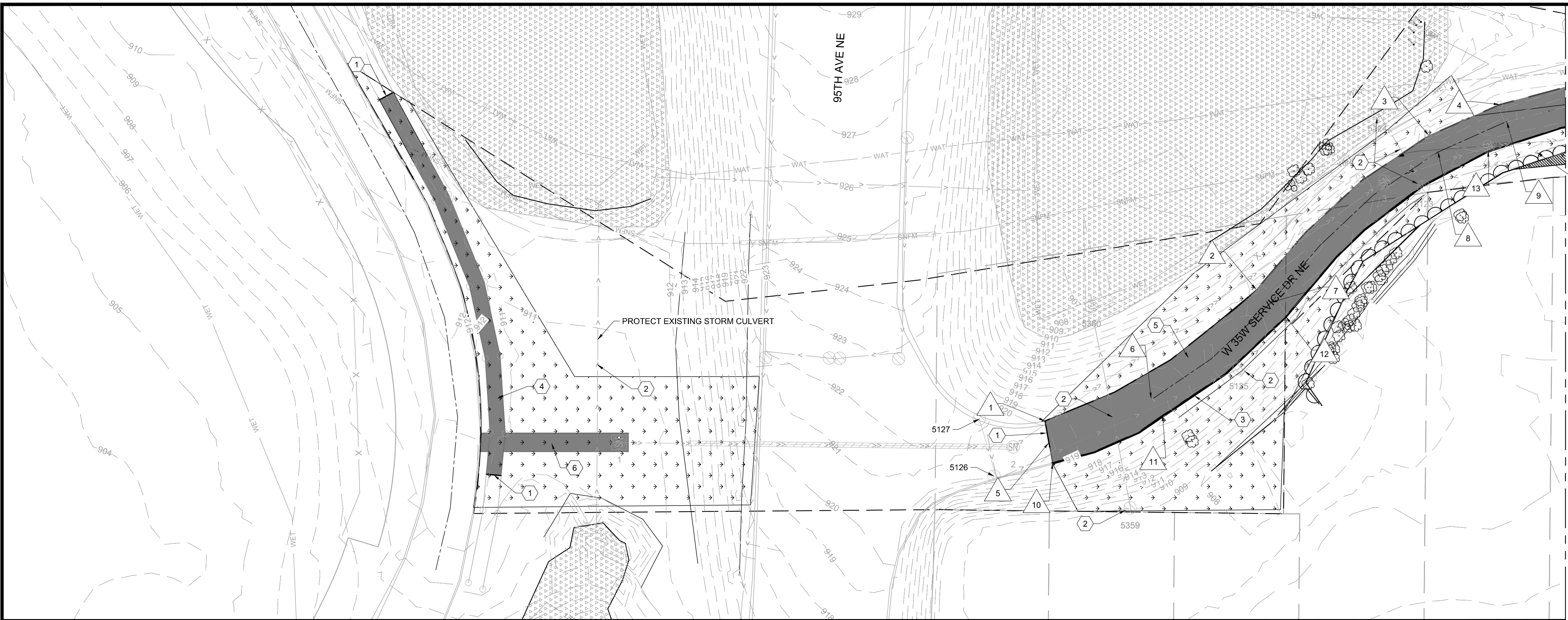
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CITY OF BLAINE
 CITY PROJECT NO. 21-30

EXISTING-REMOVAL PLAN & PROFILE
 LIFT STATION 13 FM REPLACEMENT PHASE 1

PROJ. NO.	18153.000
DRAWING NO.	C011
SHEET NO.	16

NO.	DATE	BY	DESCRIPTION OF REVISIONS
0	04/24/23	DAN	ISSUED FOR BID

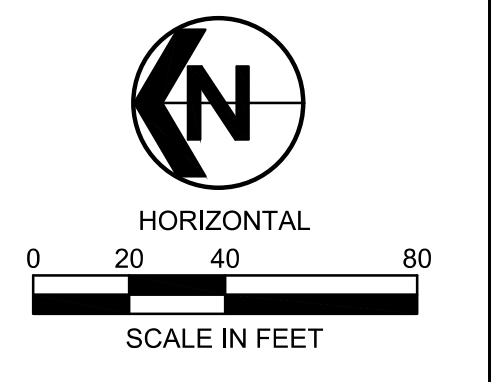


GENERAL NOTES:

- CONTRACTOR TO FIELD VERIFY PAVEMENT LOCATIONS AND ELEVATIONS PRIOR TO REMOVAL. MATCH PROPOSED PAVEMENT TO EXISTING AT SAWCUTS.

KEY NOTES: ○

- SAWCUT BITUMINOUS PAVEMENT
- PROTECT STORM SEWER PIPE AND STRUCTURES, SEE MH SCHEDULE SHEET G005
- REPLACE B612 CURB & GUTTER
- REPLACE BITUMINOUS PAVEMENT PER STANDARD DETAIL ON SHEET C017
- REPLACE BITUMINOUS PAVEMENT PER DETAIL 2/C017
- INSTALL ACCESS ROAD PER DETAIL 1/C017



PAVEMENT SCHEDULE				
NO.	DESCRIPTION	X	Y	ELEVATION
1	EDGE OF BITUMINOUS PAVEMENT	520175.5343	138981.01	919.64
2	EDGE OF BITUMINOUS PAVEMENT	520259.44	138846.07	916.73
3	EDGE OF BITUMINOUS PAVEMENT	520357.76	138736.10	913.49
4	EDGE OF BITUMINOUS PAVEMENT	520377.79	138690.44	912.59
5	PAVEMENT CENTER LINE	520161.81	138978.62	920.02
6	PAVEMENT CENTER LINE	520189.78	138913.21	919.07
7	PAVEMENT CENTER LINE	520250.91	138836.90	916.64
8	PAVEMENT CENTER LINE	520347.94	138729.97	913.09
9	PAVEMENT CENTER LINE	520366.69	138685.91	912.00
10	GUTTER LINE	520148.79	138976.25	919.39
11	GUTTER LINE	520179.41	138906.00	918.69
12	GUTTER LINE	520241.93	138827.50	916.18
13	GUTTER LINE	520348.43	138697.84	911.96
14	EDGE OF BITUMINOUS PAVEMENT	520395.19	138590.69	911.97
15	PAVEMENT CENTER LINE	520382.82	138589.70	911.58
16	GUTTER LINE	520369.83	138588.55	911.16

PLOT DATE: Apr 24, 2023 - 2:04pm
 FILENAME: K:\a-f\blaine\18153000\04_Production\01_CAD - Phase 1_Gravity\02_Sheets\012 STREET & STORM SEWER PLAN.dwg

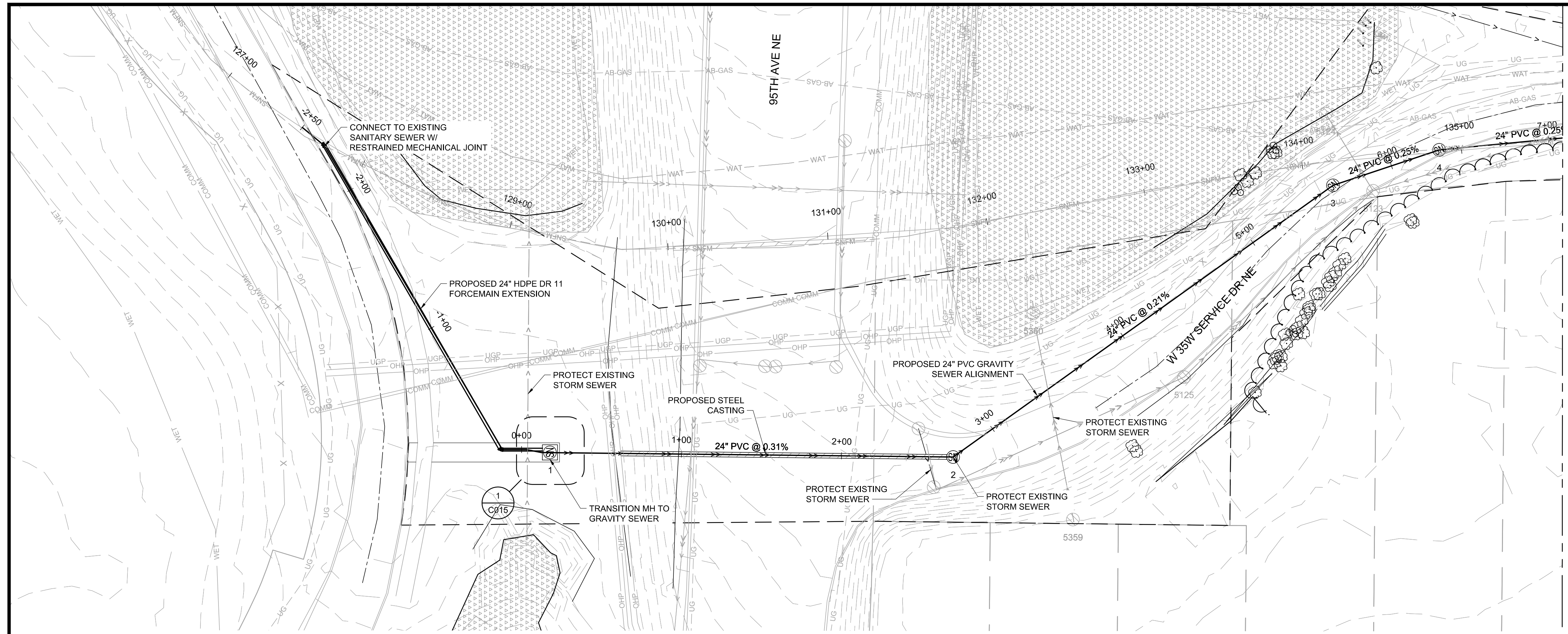
NO.	DATE	BY	DESCRIPTION OF REVISIONS
0	04/24/23	DAN	ISSUED FOR BID

DESIGNED: BJM
 DRAWN: BJM
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 I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 SIGNATURE: *Daniel A. Nesler* DATE: 04/24/23
 NAME: DANIEL A. NESLER LIC. NO.: 47523

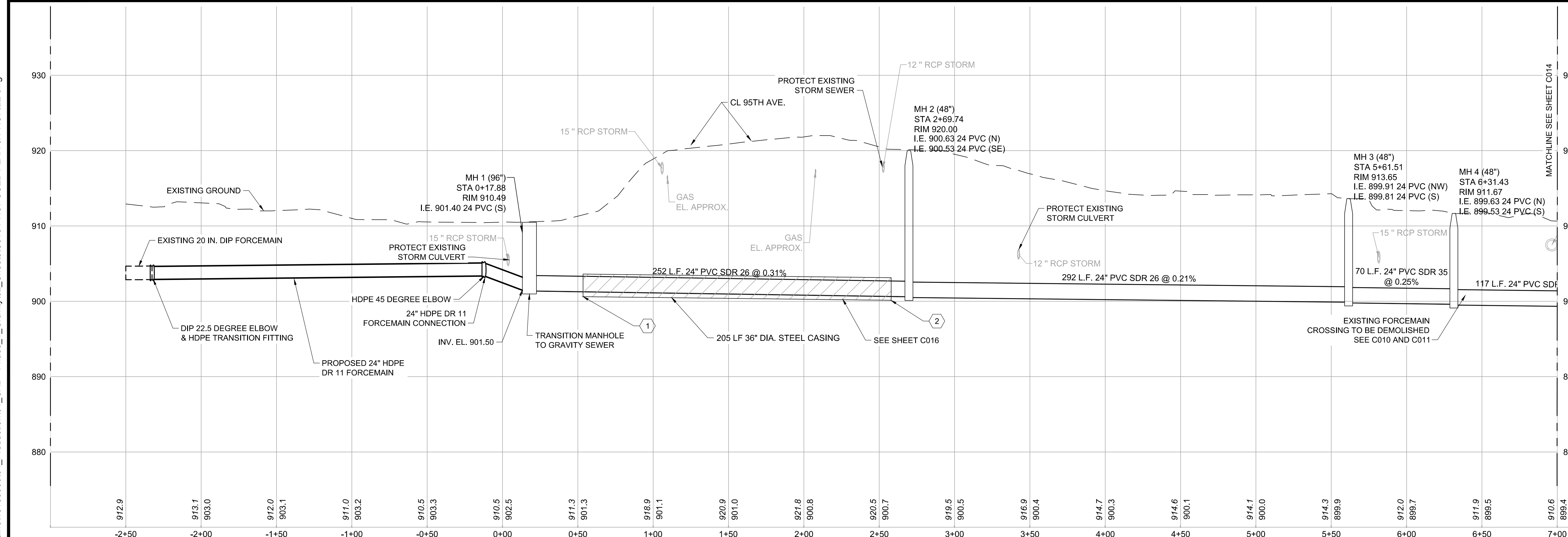
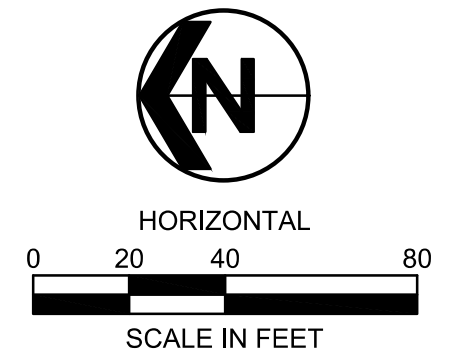
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CITY OF BLAINE
 CITY PROJECT NO. 21-30

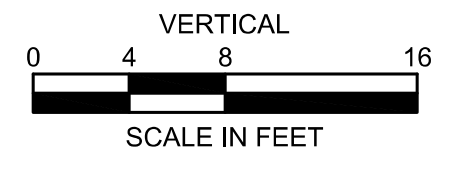
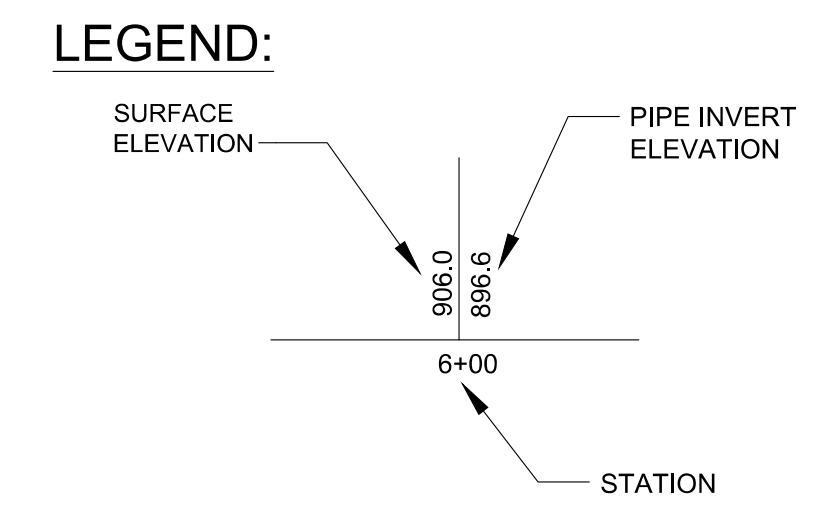
STREET & STORM SEWER PLAN
 LIFT STATION 13 FM REPLACEMENT PHASE 1
 PROJ. NO. 18153.000
 DRAWING NO. C012
 SHEET NO. 17



- NOTES:**
- CONTRACTOR SHALL SUPPORT AND PROTECT EXISTING UTILITIES EXPOSED DURING CONSTRUCTION BY MEANS ACCEPTABLE TO UTILITY OWNER AND ENGINEER.
 - A TRENCH BOX IS REQUIRED TO BE USED WHEN POSSIBLE IN ALL TRENCHES TO MINIMIZE SURFACE IMPACTS.
 - IT IS ANTICIPATED THAT UNSUITABLE FILL MATERIALS WILL BE ENCOUNTERED IN THE EXCAVATION AREAS NORTH OF 95TH AVE. SELECT GRANULAR BORROW SHALL BE UTILIZED FOR PIPE BEDDING AND BACKFILL WHERE UNSUITABLE MATERIAL ARE ENCOUNTERED.



- KEY NOTES:**
- SEE G005
 - SEE G005



PLOT DATE: Apr 24, 2023 - 2:05pm
 FILENAME: K:\a-f\blaine\18153000\04_Production\01_CAD - Phase 1_Gravity\02_Sheets\013 PROPOSED PLAN & PROFILE.dwg

NO.	DATE	BY	DESCRIPTION OF REVISIONS
0	04/24/23	DAN	ISSUED FOR BID

DESIGNED	BJM	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. SIGNATURE: <i>Daniel A. Nesler</i> DATE: 04/24/23 NAME: DANIEL A. NESLER LIC. NO.: 47523
DRAWN	BJM	
CHECKED	AMP	

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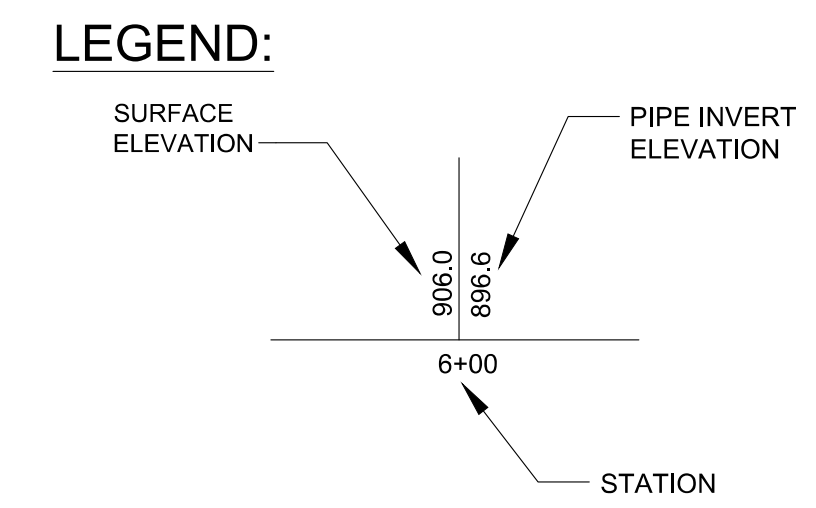
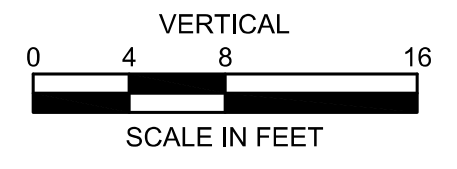
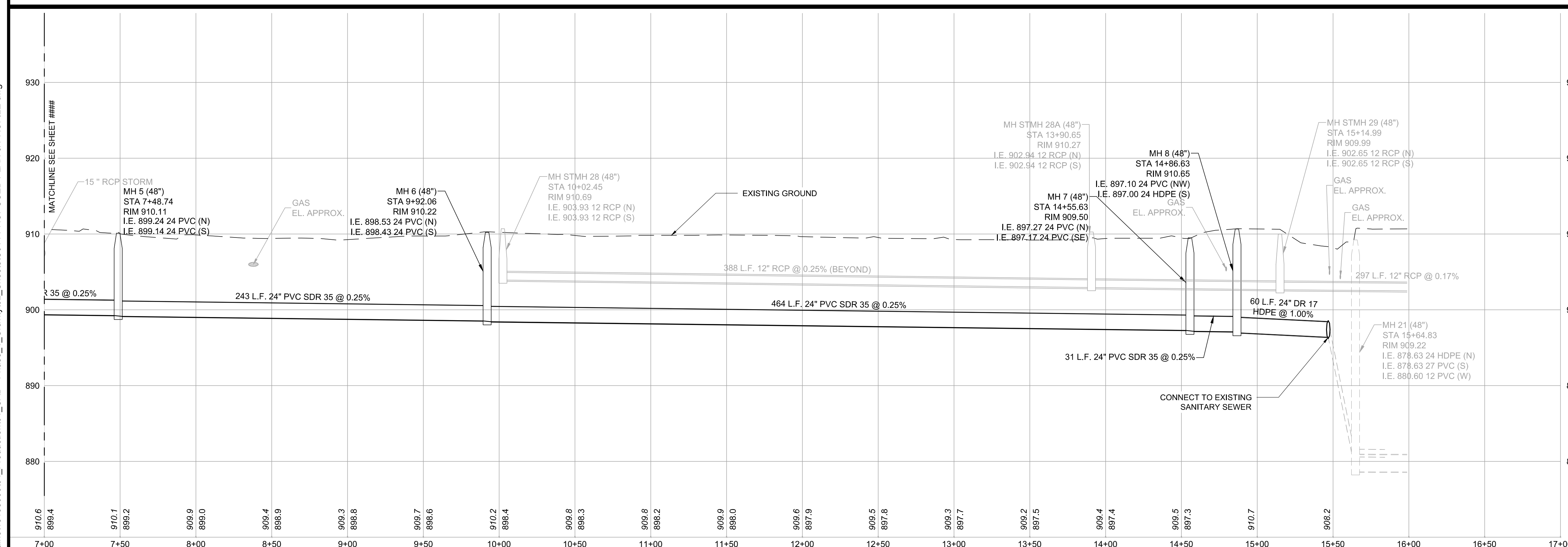
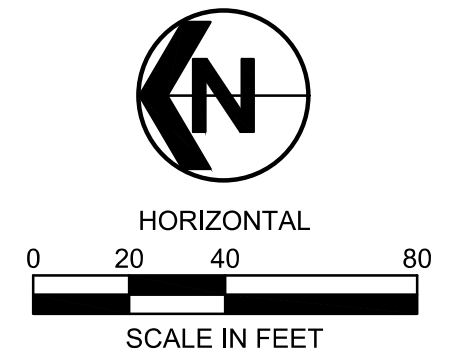
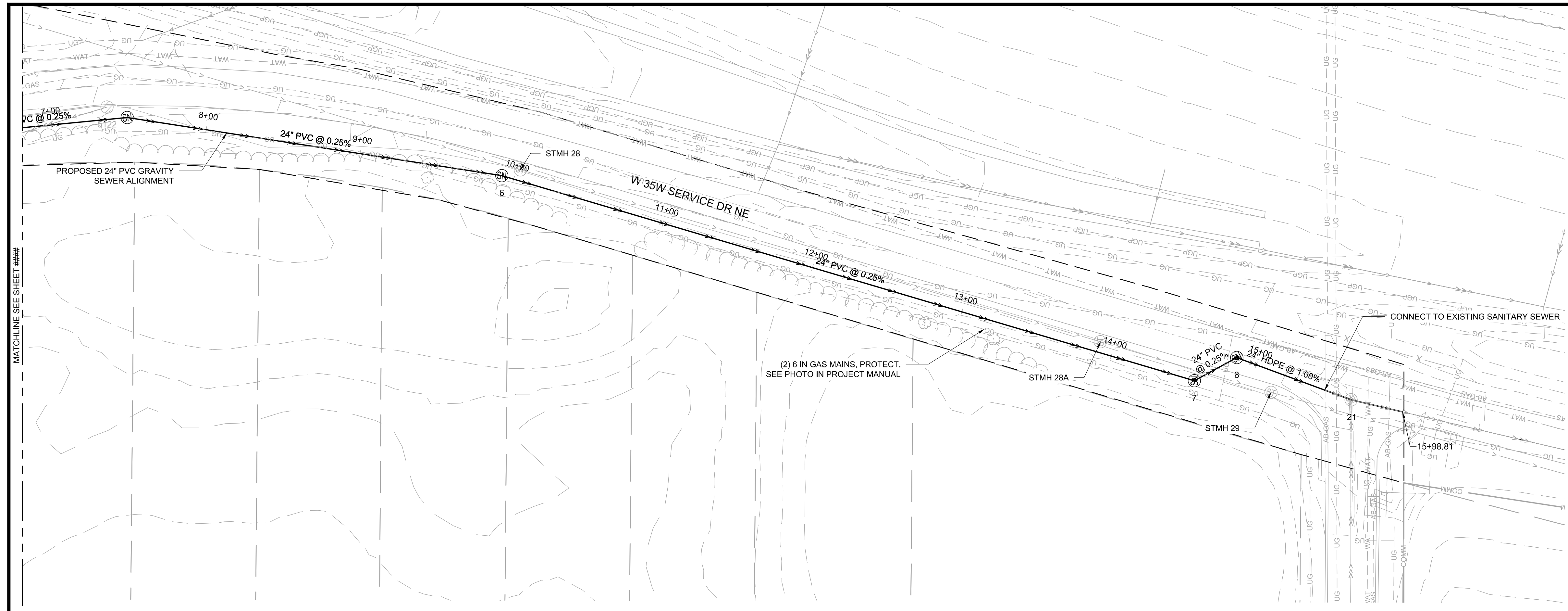
CITY OF BLAINE
 CITY PROJECT NO. 21-30

PROPOSED PLAN & PROFILE
 LIFT STATION 13 FM REPLACEMENT PHASE 1

PROJ. NO.	18153.000
DRAWING NO.	C013
SHEET NO.	18

NOTES:


1. CONTRACTOR SHALL SUPPORT AND PROTECT EXISTING UTILITIES EXPOSED DURING CONSTRUCTION BY MEANS ACCEPTABLE TO UTILITY OWNER AND ENGINEER
2. A TRENCH BOX IS REQUIRED IN ALL TRENCHES TO MINIMIZE SURFACE IMPACTS




PLOT DATE: Apr 24, 2023 - 2:06pm
 FILENAME: K:\a-f\blaine\18153000\04_Production\01_CAD - Phase_1_Gravity\02_Sheets\C014_PROPOSED PLAN & PROFILE.dwg

NO.	DATE	BY	DESCRIPTION OF REVISIONS
0	04/24/23	DAN	ISSUED FOR BID

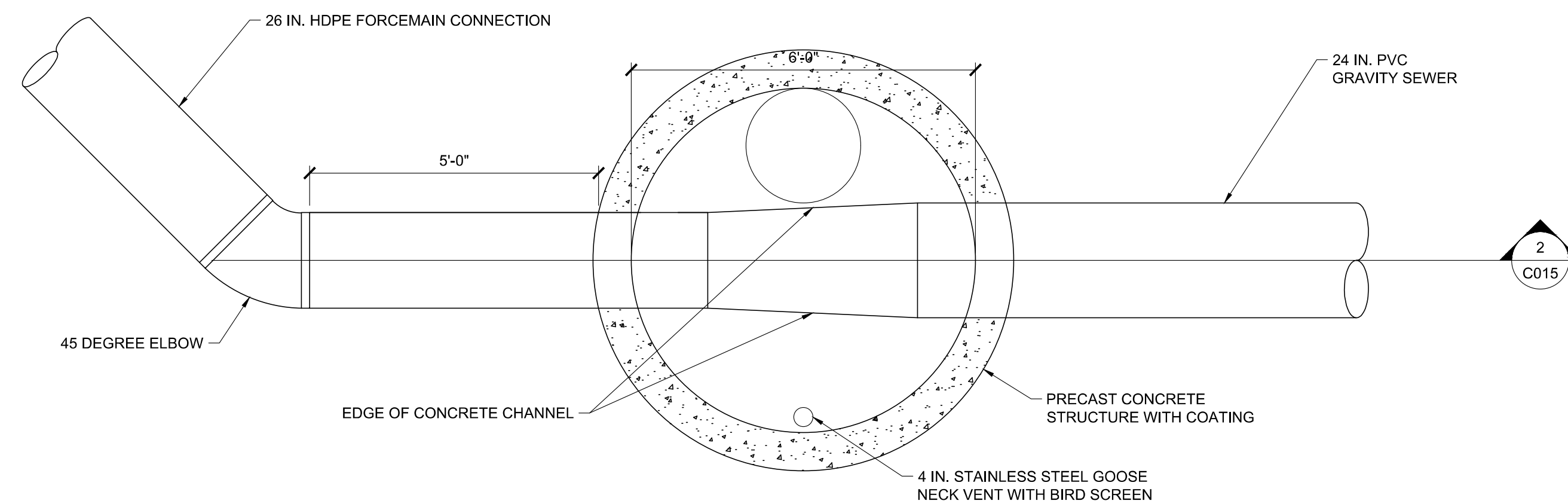
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DRAWN	BJM	
CHECKED	AMP	


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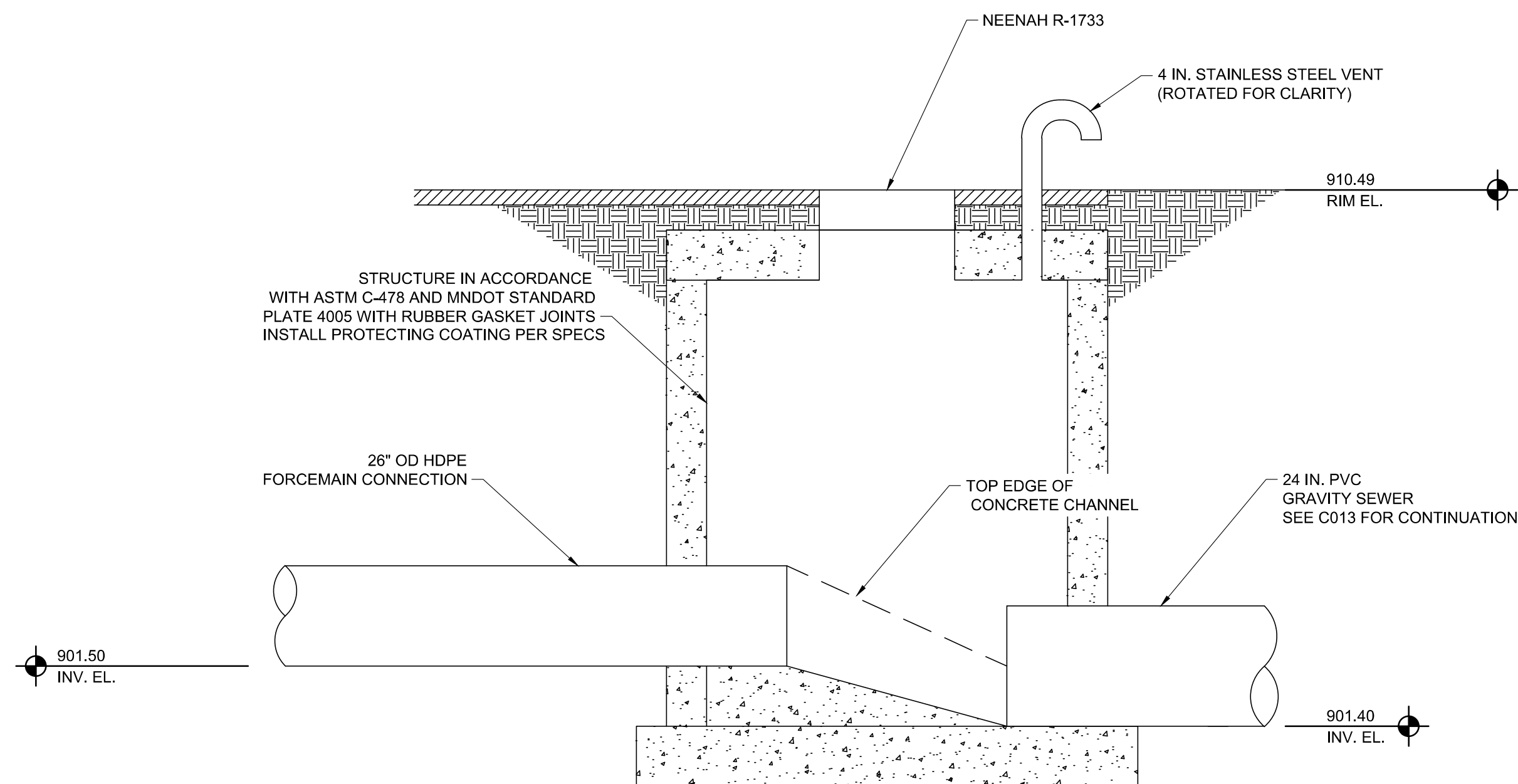

CITY OF BLAINE
 CITY PROJECT NO. 21-30

PROPOSED PLAN & PROFILE
LIFT STATION 13 FM REPLACEMENT PHASE 1

PROJ. NO.	18153.000
DRAWING NO.	C014
SHEET NO.	19



1 PLAN - TRANSITION MANHOLE
 C015 SCALE: 1/2"=1'-0"



2 SECTION - TRANSITION MANHOLE
 C015 SCALE: 1/2"=1'-0"

PLOT DATE: Apr 24, 2023 - 2:06pm
 FILENAME: K:\a-f\blaine\18153000\04_Production\01_CAD - Phase_1_Gravity\02_Sheets\C015 CIVIL DETAILS.dwg

NO.	DATE	BY	DESCRIPTION OF REVISIONS
0	04/24/23	DAN	ISSUED FOR BID

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DRAWN	BJM	
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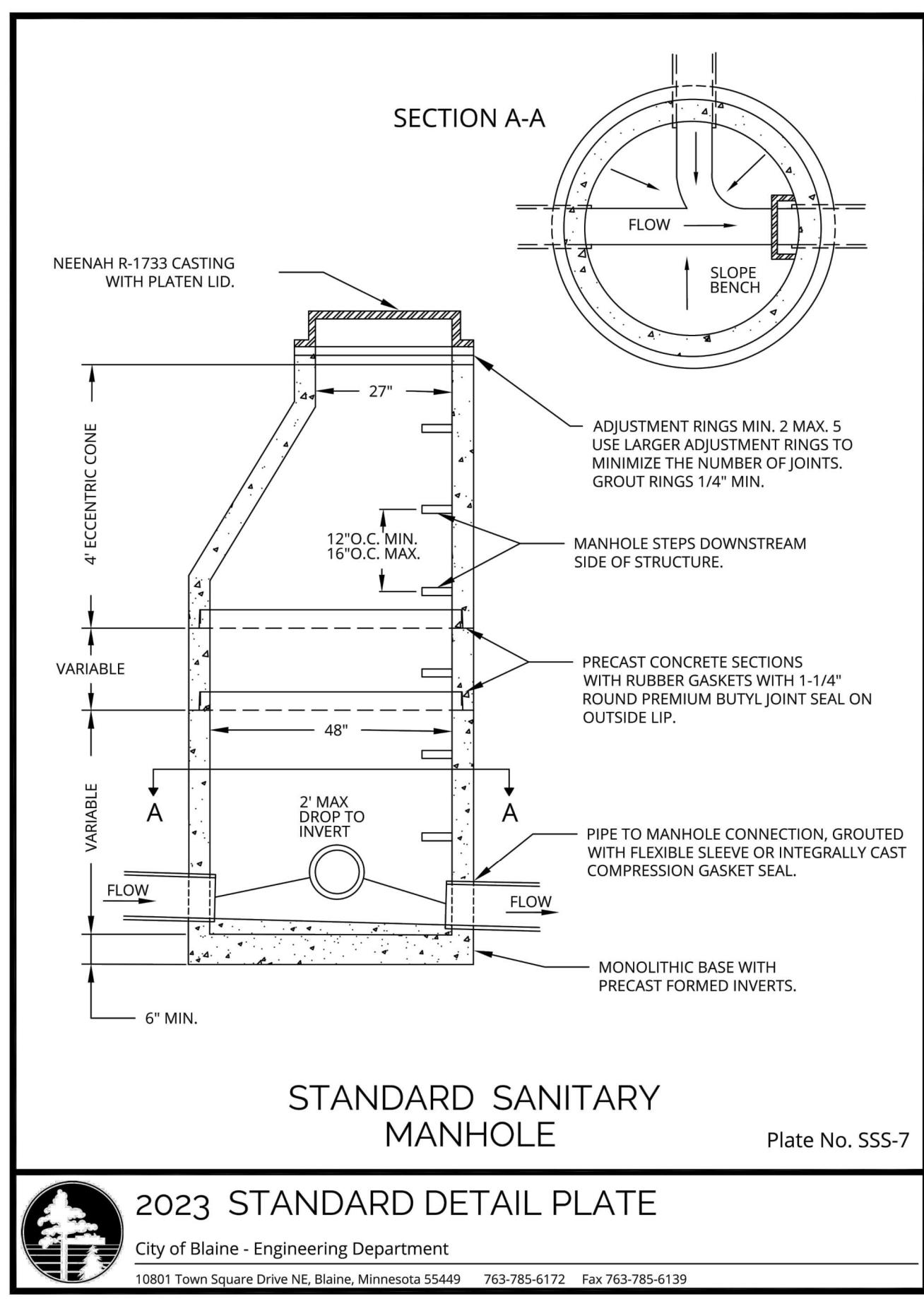
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 CITY PROJECT NO. 21-30

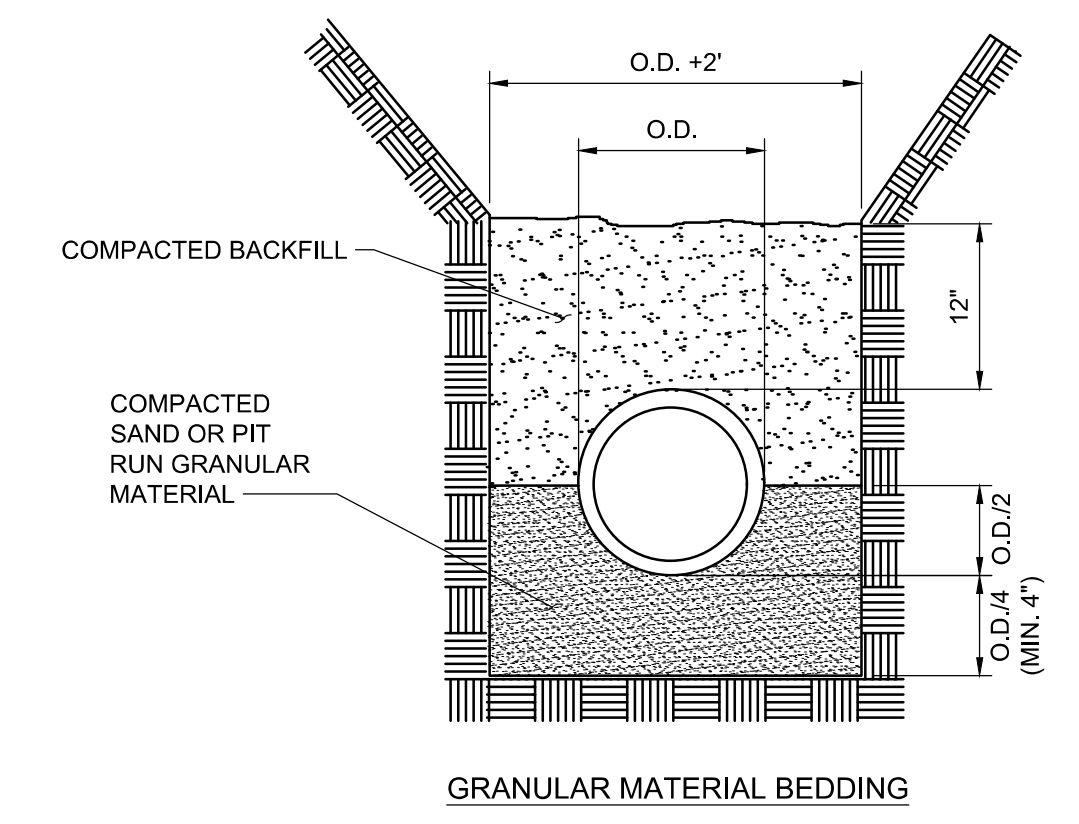
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LIFT STATION 13 FM REPLACEMENT PHASE 1	

PROJ. NO.	18153.000
DRAWING NO.	C015
SHEET NO.	20

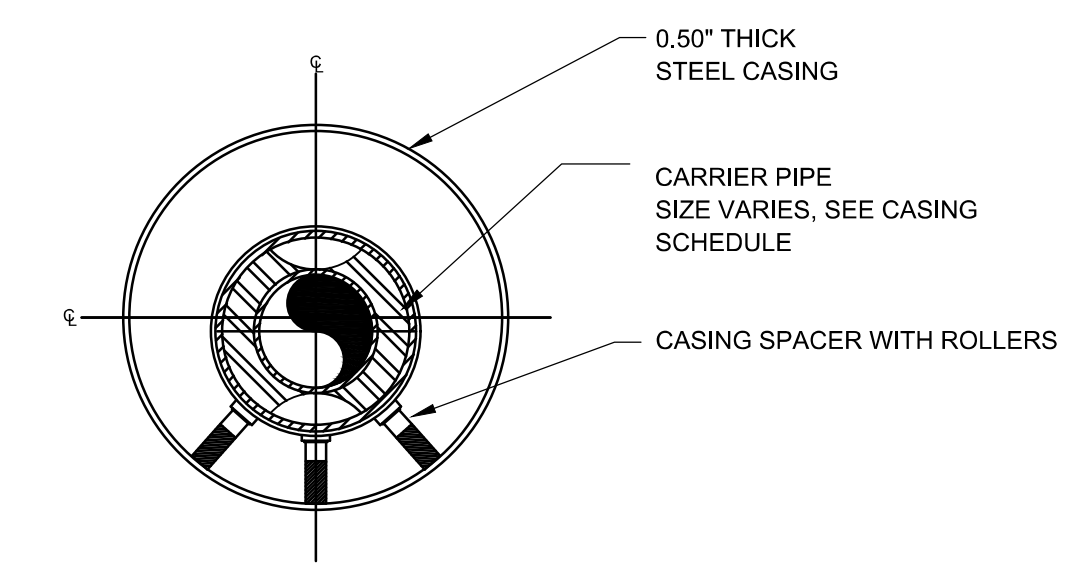


STANDARD SANITARY MANHOLE Plate No. SSS-7

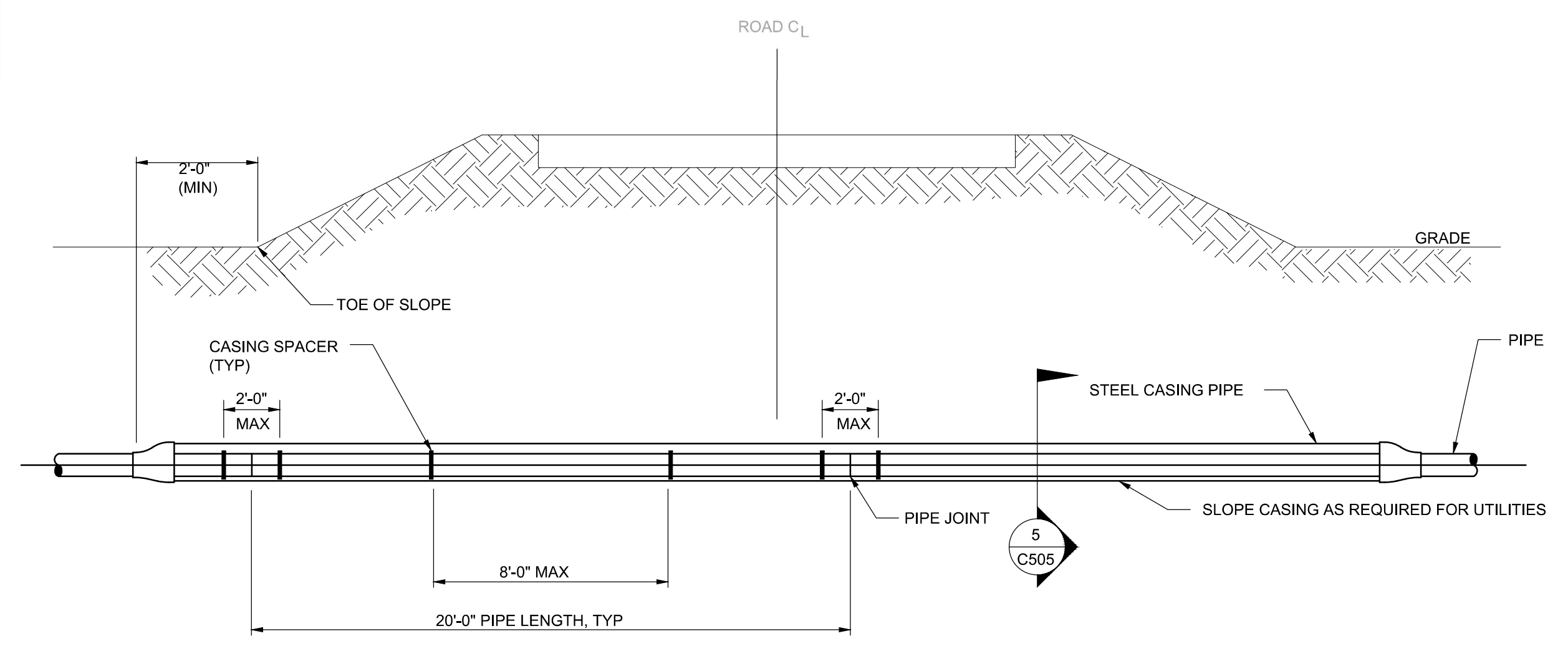
2023 STANDARD DETAIL PLATE
 City of Blaine - Engineering Department
 10801 Town Square Drive NE, Blaine, Minnesota 55449 763-785-6172 Fax 763-785-6139



1 PIPE FOUNDATION DETAILS
 C016 NO SCALE

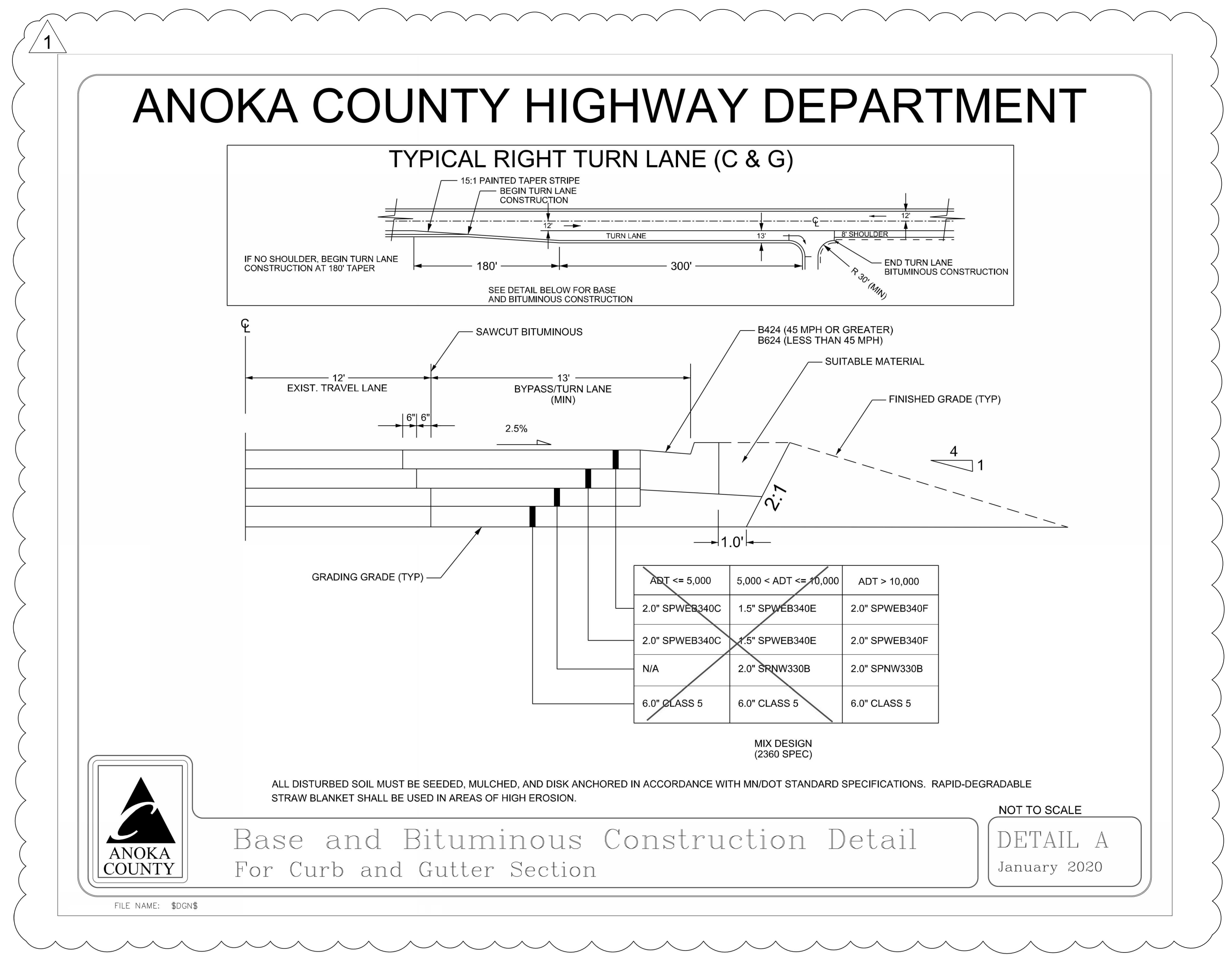


2 PIPE CASING SECTION - SINGLE CARRIER PIPE
 C016 NO SCALE



3 PIPE CASING DETAIL
 C016 NO SCALE

- CASING NOTES:**
- CASING LENGTHS ARE APPROXIMATE. CONTRACTOR TO DETERMINE CASING LENGTHS AND CASING INVERTS BASED ON CARRIER PIPE INVERTS.
 - SEE SITE UTILITIES PLAN FOR CASING PLAN LAYOUT.
 - HORIZONTAL CONSTRUCTION TOLERANCES SHALL BE ±2.0 FEET OF THE DESIGN CENTERLINE OF THE PIPE. VERTICAL CONSTRUCTION TOLERANCES SHALL BE WITHIN 0.10' OF DETERMINED INVERTS. WATER SHALL BE FREE DRAINING BETWEEN ANY TWO POINTS AT THE PIPE INVERT.
 - AS A MINIMUM, THE CONTRACTOR SHALL ENSURE ALL PIPING ROUTED THRU A CASING IS SUPPORTED BY A SPACER AT THE MFG'S RECOMMENDED INTERVALS. THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE CASING SPACER MFG FOR THE SELECTION OF SPACERS AND THE LAYOUT OF MULTIPLE PIPING ARRANGEMENTS FOR CASINGS NOT DETAILED.
 - THE CONTRACTOR SHALL SUBMIT CASING SPACERS/SUPPORTS FOR AND APPROVAL, FOR BOTH SINGLE AND MULTIPLE PIPING ARRANGEMENTS TO BE FURNISHED.
 - CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL MATERIALS FURNISHED FOR ENGINEER'S REVIEW AND APPROVAL.



PLOT DATE: Jul 21, 2023 - 12:06pm
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NO.	DATE	BY	DESCRIPTION OF REVISIONS
1	07/21/23	DAN	ANOKA COUNTY COMMENTS
0	04/24/23	DAN	ISSUED FOR BID

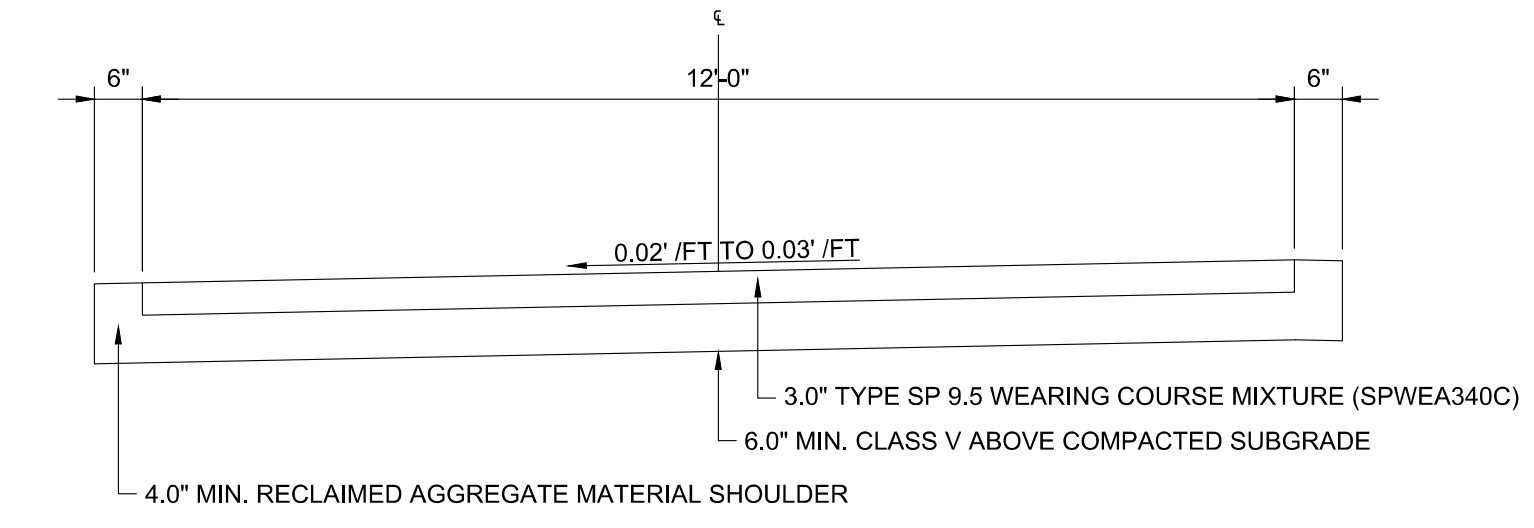
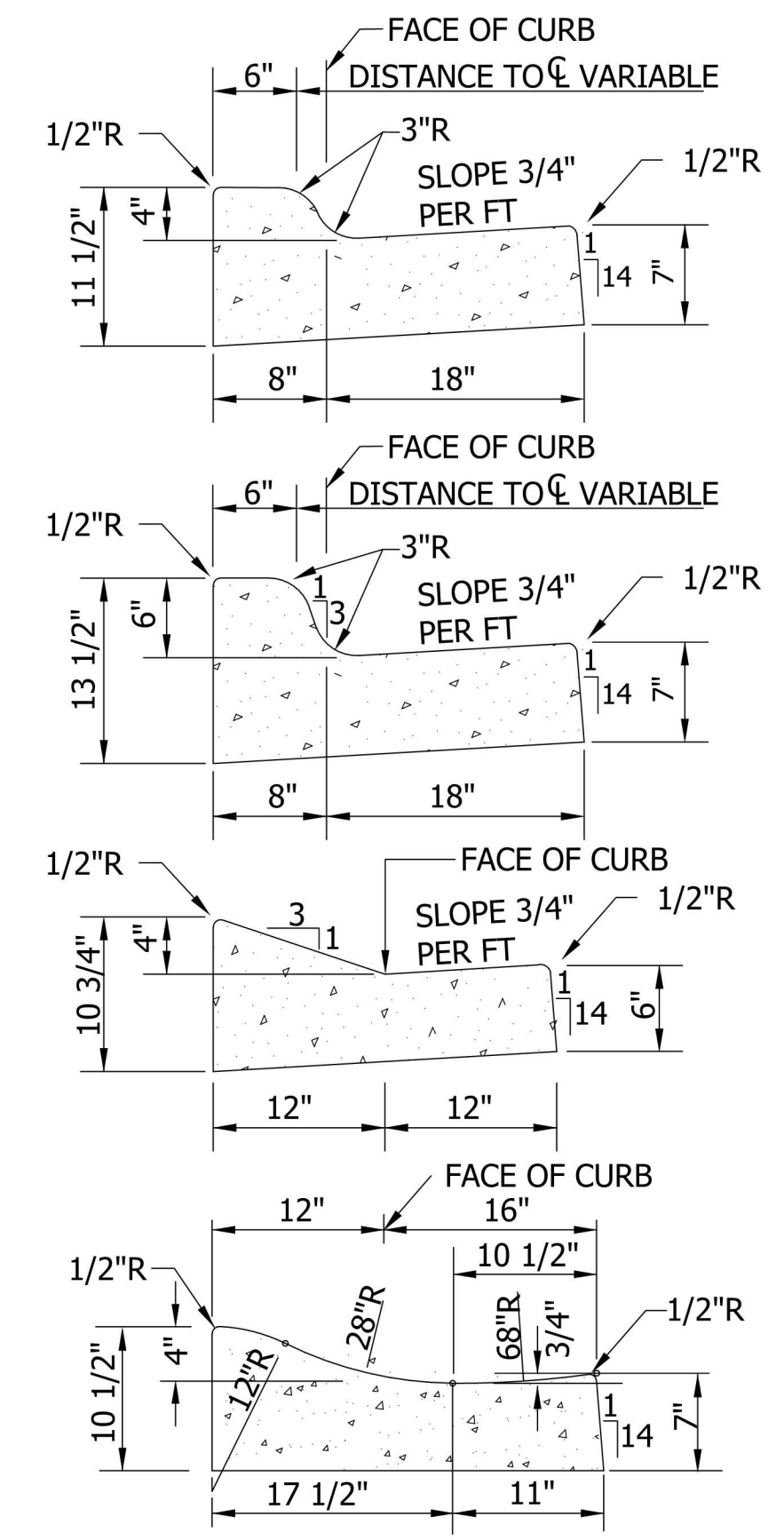
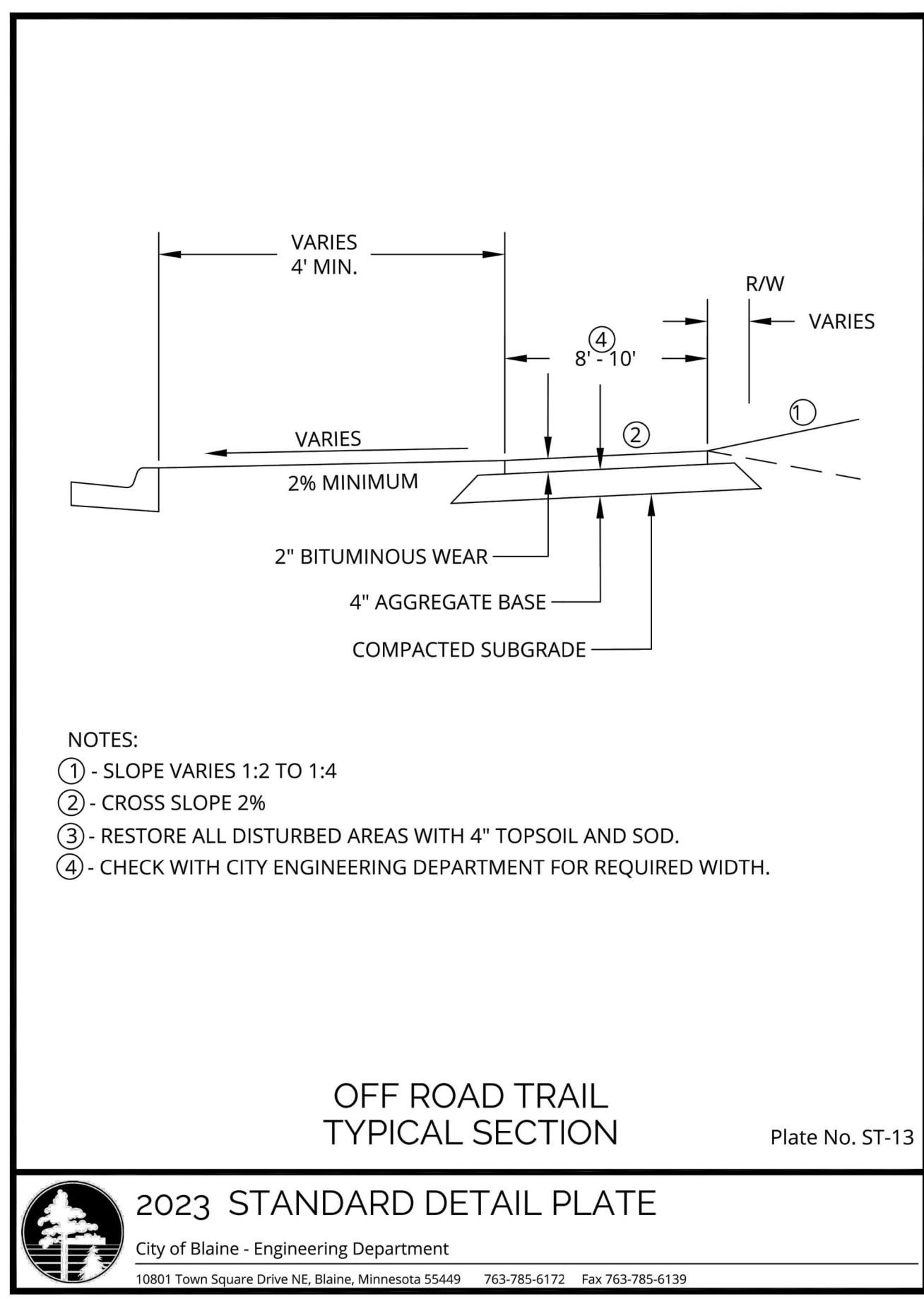
DESIGNED	BJM	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. SIGNATURE: <i>DAN NESLER</i> DATE: 04/24/23 NAME: DANIEL A. NESLER LIC. NO.: 47523
DRAWN	BJM	
CHECKED	AMP	

444 Cedar Street, Suite 1500
 Saint Paul, MN 55101
 651.292.4400
 tkda.com

CITY OF BLAINE
 CITY PROJECT NO. 21-30

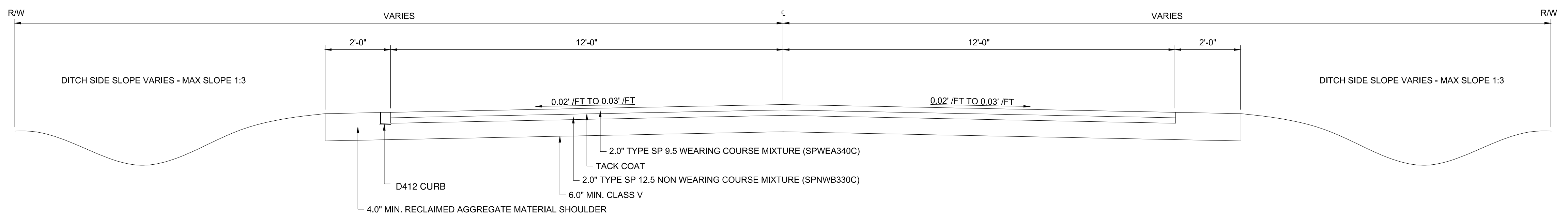
CIVIL DETAILS
 LIFT STATION 13 FM REPLACEMENT PHASE 1

PROJ. NO. 18153.000
 DRAWING NO. C016
 SHEET NO. 21



1 MH ACCESS ROAD TYPICAL SECTION

C017 NO SCALE



2 35W SERVICE ROAD EXISTING TYPICAL SECTION

C017 NO SCALE

PLOT DATE: Apr 24, 2023 - 2:07pm
FILENAME: K:\a-f\blaine\18153000\04_Production\01_CAD - Phase 1_Gravity\02_Sheets\C017 CIVIL DETAILS.dwg

NO.	DATE	BY	DESCRIPTION OF REVISIONS
0	04/24/23	DAN	ISSUED FOR BID

DESIGNED	BJM	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
DRAWN	BJM	
CHECKED	AMP	
DATE	04/24/23	
SIGNATURE:	<i>DAN</i>	NAME: DANIEL A. NESLER
DATE:	04/24/23	LIC. NO.: 47523

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CITY PROJECT NO. 21-30

CIVIL DETAILS

LIFT STATION 13 FM REPLACEMENT PHASE 1

PROJ. NO.	18153.000
DRAWING NO.	C017
SHEET NO.	22

Certificate Of Completion

Envelope Id: 8BDD5438669947DA8233112871C5B7A8
 Subject: Darren Douglas - ROW Permit Application
 Source Envelope:
 Document Pages: 44 Signatures: 2
 Certificate Pages: 4 Initials: 1
 AutoNav: Enabled
 Envelopeld Stamping: Enabled
 Time Zone: (UTC-06:00) Central Time (US & Canada)

Status: Completed

 Envelope Originator:
 Highway Permits
 Anoka County Government Center
 2100 3rd Avenue
 Anoka, MN 55303
 HighwayPermits@co.anoka.mn.us
 IP Address: 174.20.148.26

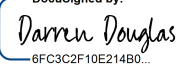
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Security Appliance Status: Connected	Pool: StateLocal	
Storage Appliance Status: Connected	Pool: Anoka County	Location: DocuSign

Signer Events

Darren Douglas
 darrend@douglas-kerr.com
 Security Level:
 DocuSign.email
 ID: 1
 7/25/2023 9:04:01 AM

Signature

DocuSigned by:

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 Signature Adoption: Pre-selected Style
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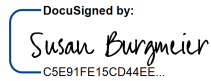
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 Viewed: 7/25/2023 9:04:28 AM
 Signed: 7/25/2023 9:24:30 AM

Electronic Record and Signature Disclosure:

Accepted: 6/7/2023 12:17:10 PM
 ID: 82fb08f4-0567-45cc-a642-a1df56b0eb8f

Susan Burgmeier
 Susan.Burgmeier@co.anoka.mn.us
 Associate Traffic Technician
 Anoka County
 Signing Group: Highway Permits
 Security Level: Email, Account Authentication (Optional)

DocuSigned by:

 C5E91FE15CD44E...

 Signature Adoption: Pre-selected Style
 Using IP Address: 156.98.106.245

Sent: 7/25/2023 9:24:37 AM
 Viewed: 7/25/2023 10:07:03 AM
 Signed: 7/26/2023 8:04:22 AM

Electronic Record and Signature Disclosure:

Accepted: 7/20/2023 8:06:28 AM
 ID: bb93637a-08b3-4f46-b424-c79e9762603d

In Person Signer Events	Signature	Timestamp
Editor Delivery Events	Status	Timestamp
Agent Delivery Events	Status	Timestamp
Intermediary Delivery Events	Status	Timestamp
Certified Delivery Events	Status	Timestamp
Carbon Copy Events	Status	Timestamp
Witness Events	Signature	Timestamp
Notary Events	Signature	Timestamp

Envelope Summary Events	Status	Timestamps
Envelope Sent	Hashed/Encrypted	7/25/2023 9:04:00 AM
Envelope Updated	Security Checked	7/25/2023 9:24:30 AM
Certified Delivered	Security Checked	7/25/2023 10:07:03 AM
Envelope Updated	Security Checked	7/26/2023 8:04:22 AM
Signing Complete	Security Checked	7/26/2023 8:04:22 AM
Completed	Security Checked	7/26/2023 8:04:22 AM

Payment Events	Status	Timestamps
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Electronic Record and Signature Disclosure

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You may change your preferred method of contact whether electronically, or paper copies, or change your email address. You may also request paper copies of certain information from us, or withdraw your prior consent to receive documents. Please use the contact information below for your request and in the body of your correspondence, identify your desired action. If you are

changing an email address, please include your prior email address as well as your new address. If you no longer wish to receive future documents in electronic format, please include that request in the body of your email.

Email: helpdesk@co.anoka.mn.us

Phone: (763)-324-4110

Address: Anoka County Government Center
Attn: Information Technology, #300
2100 3rd Avenue
Anoka, MN 55303

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