



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

23-270

RIGHT OF WAY

COMMERCIAL ACCESS

CSAH 11

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 Meyer Contracting Inc

CONTACT PERSON Joshua Lindquist

ADDRESS 11000 93rd Avenue North

CITY Maple Grove

PHONE NUMBER 7639239176

EMAIL jlindquist@meyerci.com

COMPANY OR INDIVIDUAL PERFORMING WORK Meyer Contracting Inc.

CONTACT PERSON Joshua Lindquist

EMAIL jlindquist@meyerci.com

PERMIT WORK TO START 06/19/2023

PERMIT WORK TO BE COMPLETED 10/31/2023

DURATION OF JOB 4 months

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

ANOKA COUNTY PROJECT NUMBER

WORK SITE ADDRESS Northdale Blvd

CITY Coon Rapids

METHOD OF INSTALLATION/CONSTRUCTION Watermain Construction amd Mill & Overlay

NATURE OF WORK Install ation of approximently 2700' of 18" Watermain and a mill & overlay of Northdale Blvd
between Quice & Ilex

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



Will Provide Proper Site Plan and Traffic Control Plan at Later Date
TC PER APPROVED PLAN

DEPTH FROM SURFACE 10'

(60" minimum under county roads)

SIZE AND KIND OF PIPE/CABLE 18" PVC

NUMBER OF EXCAVATIONS 1

SIZE OF EXCAVATIONS 2700' x 10' x 10'

(Length, width, and depth)

LOCATION OF EXCAVATIONS

North Edge of Northdale Blvd between Quice & Ilex

(Specific written descriptions of excavations)

PER APPROVED PLAN

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

DocuSigned by:

3FG6B5EG03DA4ED...

DATE 6/2/2023

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:

DocuSigned by:

05E91FE156D44EE...

TITLE: Traffic Technician

DATE

6/5/2023

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

INITIAL
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Anoka County

TRANSPORTATION DIVISION

Respectful, Innovative, Fiscally Responsible

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

2

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:

7560.0350 EXCAVATION NOTICE SYSTEM

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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:

7560.0500 EXCAVATION NOTICE SYSTEM

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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.

7560.0800 EXCAVATION NOTICE SYSTEM

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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*

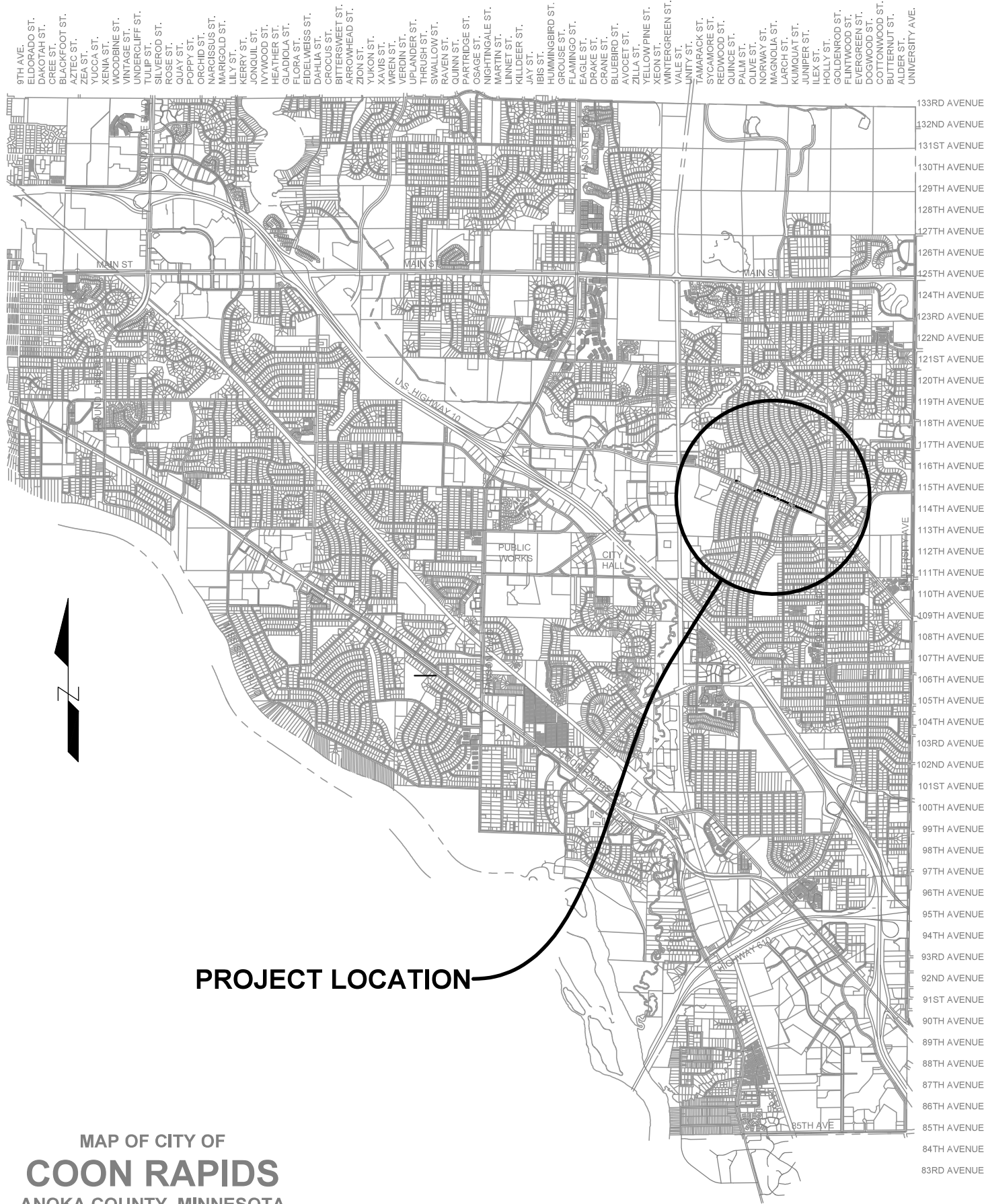
History: *16 SR 135; 24 SR 448*

Published Electronically: *July 20, 2005*

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2:26 PM

April 19, 2023



CITY OF COON RAPIDS 23-10 NORTHDALE BLVD. WATERMAIN REPLACEMENT

GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL APPLY.

THE MOST CURRENT EDITION OF THE CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM) STANDARD SPECIFICATION SHALL APPLY.

GENERAL NOTES

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MMUTCD, INCLUDING FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS, LATEST ISSUE.

THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CIASCE 38-02 ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE THE GOPHER STATE ONE CALL EXCAVATION NOTICE SYSTEM REQUIRED BY MINNESOTA STATUE, CHAPTER 216D FOR ALL UNDERGROUND UTILITY LOCATIONS.

SHEET INDEX

| SHEET | SHEET TITLE |
|-------|----------------------------|
| 1 | COVER SHEET |
| 2 | LEGEND |
| 3 | TYPICAL SECTIONS |
| 4-5 | STANDARD PLATES |
| 6 | CONSTRUCTION NOTES |
| 7 | VALVE OVERVIEW PLAN |
| 8-11 | WATERMAIN PLAN AND PROFILE |
| 12 | WATERMAIN DETOUR PLAN |
| | |
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| | |

MAP OF CITY OF
COON RAPIDS
ANOKA COUNTY, MINNESOTA



| NO. | DATE | REVISIONS |
|-----|------|-----------|
| | | |
| | | |

COON RAPIDS
MINNESOTA

CITY OF COON RAPIDS
ENGINEERING DEPARTMENT
11155 ROBINSON DRIVE
COON RAPIDS, MN. 55433-3761
763-755-2880 FAX 163-767-6491

DESIGNED BY: H.H.
DRAWING BY: Z.J.P.
CHECKED BY: M.C.H.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINNESOTA.
MARK C. HANSEN P.E.
LICENSE # 43920

DATE: 4/19/2023

23-10 WATERMAIN REPLACEMENT
CITY OF COON RAPIDS, MINNESOTA

COVER SHEET

1
12

LINE TYPES

| | | |
|--|---------------------------|--|
| | CENTERLINE | |
| | CURB | |
| | EDGE OF BUILDING | |
| | RIGHT-OF-WAY | |
| | EASEMENT LINE | |
| | ASPHALT EDGE | |
| | EXCAVATION EDGE | |
| | LIMIT OF CONSTRUCTION | |
| | WATER MAIN | |
| | SANITARY SEWER | |
| | STORM DRAIN | |
| | NATURAL GAS | |
| | ELECTRIC OVERHEAD | |
| | ELECTRIC UNDERGROUND | |
| | CABLE TELEVISION | |
| | FIBER OPTIC OVERHEAD | |
| | FIBER OPTIC UNDER GROUND | |
| | TRAFFIC SIGNAL | |
| | RETAINING WALL | |
| | FENCE LINE | |
| | SILT FENCE | |
| | EROSION CONTROL LOG BIROL | |
| | WETLAND | |
| | TREE LINE | |
| | CONTOURS | |
| | MATCH LINE | |

SYMBOLS

| | | |
|--|--------------------------------|--|
| | 1-FIRE HYDRANT (ENG DEPT) | |
| | 2-WATER GATE VALVE (ENG DEPT) | |
| | 3-WATER TEE (ENG DEPT) | |
| | 24-WATER CURB STOP (ENG DEPT) | |
| | 4-SANITARY MANHOLE (ENG DEPT) | |
| | 5-STORM MANHOLE (ENG DEPT) | |
| | 6-STORM CATCH BASIN (ENG DEPT) | |
| | 7-INLET PROTECTION (ENG DEPT) | |
| | 8-POLE (ENG DEPT) | |
| | 9-LIGHT POLE (ENG DEPT) | |
| | 10-GUY WIRE (ENG DEPT) | |
| | 12-SIGN (ENG DEPT) | |
| | 13-STREET NAME SIGN (ENG DEPT) | |
| | 11-TRAFFIC SIGNAL (ENG DEPT) | |
| | 14-UTILITY HANDHOLE (ENG DEPT) | |
| | 15-UTILITY MANHOLE (ENG DEPT) | |
| | 16-PEDESTAL (ENG DEPT) | |
| | 17-TREE STUMP (ENG DEPT) | |
| | 18-CONIFEROUS TREE (ENG DEPT) | |
| | 19-DECIDUOUS TREE (ENG DEPT) | |
| | 20-BENCHMARK (ENG DEPT) | |
| | 21-SOIL BORING (ENG DEPT) | |
| | 22-KEY NOTE (ENG DEPT) | |
| | 23-CULVERT (ENG DEPT) | |

HATCH PATTERNS

| | |
|--|---------------------------|
| | REMOVE CONCRETE |
| | REMOVE ASPHALT |
| | CONCRETE PAVEMENT |
| | ASPHALT PAVEMENT |
| | ASPHALT PATCHING |
| | ASPHALT SECTION |
| | COMPACTED FILL / SUB BASE |
| | GRAVEL |
| | GRASS |
| | SAND |
| | EROSION CONTROL MAT |
| | CONSTRUCTION ENTRANCE |
| | PAVERS |

| NO. | DATE | REVISIONS |
|-----|------|-----------|
| | | |
| | | |



CITY OF COON RAPIDS
ENGINEERING DEPARTMENT
11155 ROBINSON DRIVE
COON RAPIDS, MN. 55433-3761
763-755-2880 FAX 163-767-6491

DESIGNED BY: H.H.
DRAWING BY: Z.J.P.
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MARK C. HANSEN P.E.
LICENSE # 43920
DATE: 4/19/2023

23-10 WATERMAIN REPLACEMENT

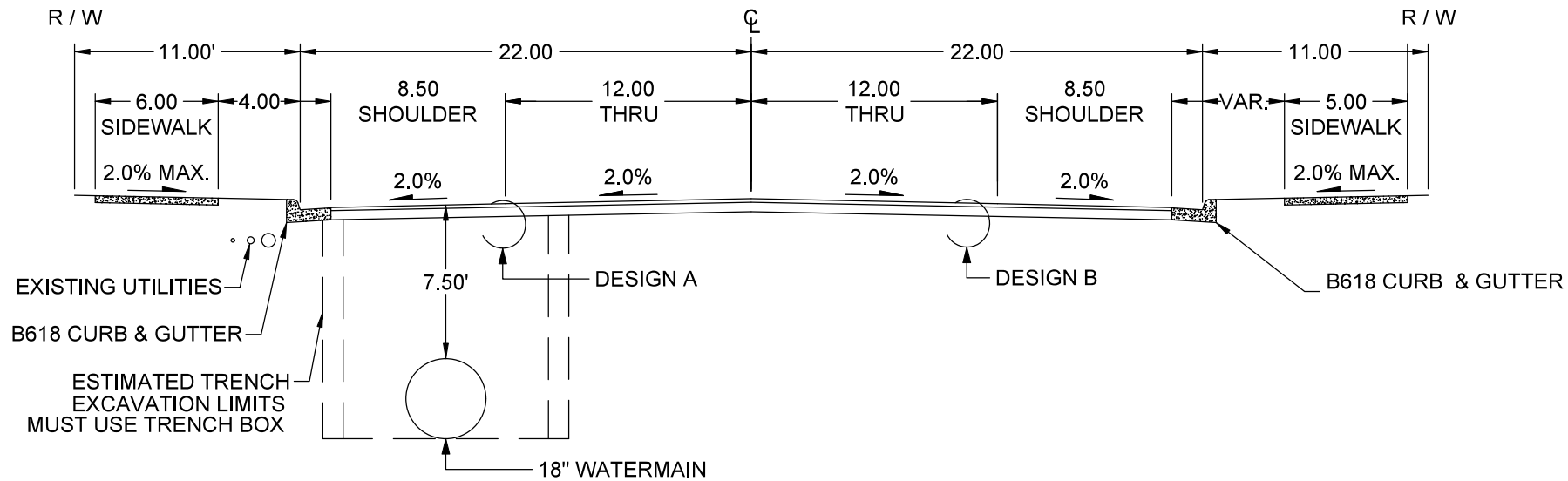
CITY OF COON RAPIDS, MINNESOTA

LEGEND

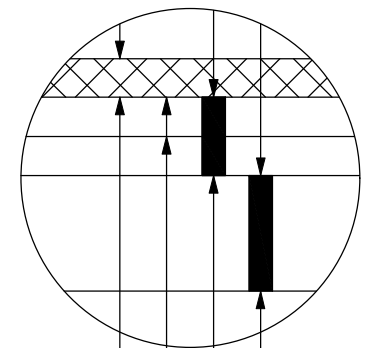
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CSAH 11 (EXISTING/PROPOSED) SECTION

11+80.00 - 18+65.00



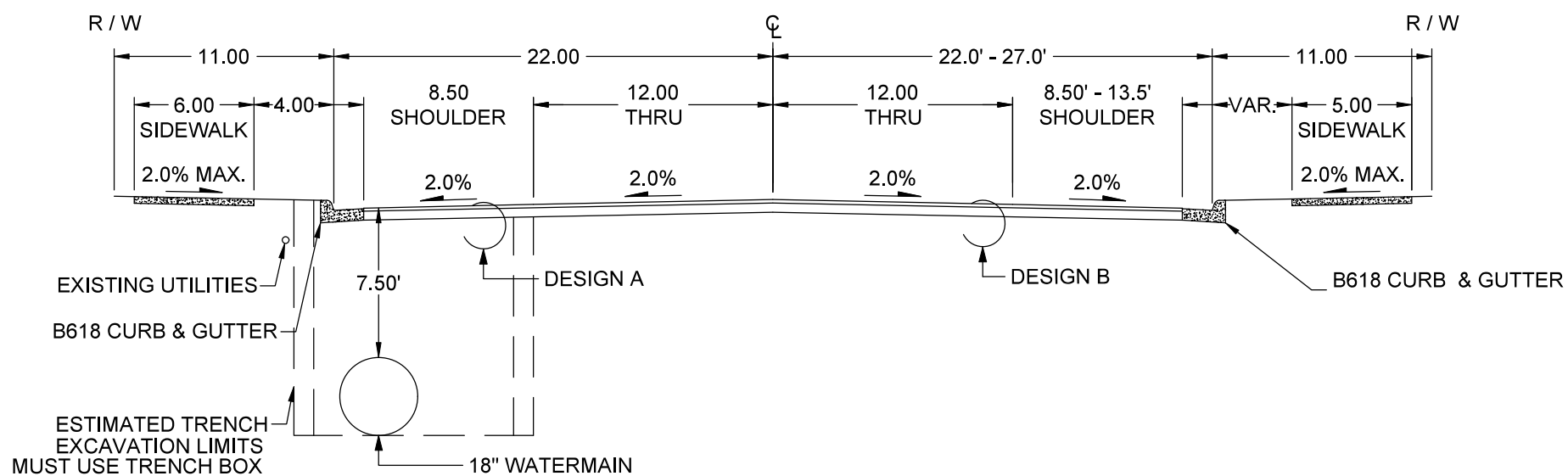
DESIGN A



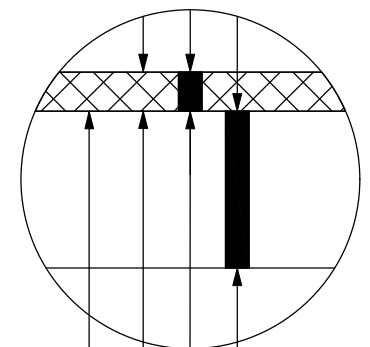
2.0" BITUMINOUS WEAR (SPWEB440F)
BIT MATERIAL FOR TACK MN DOT SPEC. 2357
4.0" BITUMINOUS WEAR (SPWEB440F)
12" AGGREGATE BASE

CSAH 11 (EXISTING/PROPOSED) SECTION

18+65.00 - 38+40.00



DESIGN B MILL SECTION



BIT MATERIAL FOR TACK MN DOT SPEC. 2357
2.0" MILL BITUMINOUS
2.0" BITUMINOUS WEAR (SPWEB440F)
REMAINING BITUMINOUS

April 20, 2023 3:50 PM

| | | | | | | | | |
|-----|------|-----------|--|--------------------|---|--|------------------|---------|
| NO. | DATE | REVISIONS | <p>CITY OF COON RAPIDS ENGINEERING DEPARTMENT 11155 ROBINSON DRIVE COON RAPIDS, MN. 55433-3761 763-755-2880 FAX 163-767-6491</p> | DESIGNED BY: H.H. | I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINNESOTA. MARK C. HANSEN P.E. LICENSE # 43920 | <h2>23-10 WATERMAIN REPLACEMENT</h2> <p>CITY OF COON RAPIDS, MINNESOTA</p> | TYPICAL SECTIONS | 3 12 |
| | | | | DRAWING BY: Z.J.P. | | | | |
| | | | | CHECKED BY: M.C.H. | | | | |

NOTE:
FOR USE WITH BOTH STYLE OF CURB BOX

(2) HDPE INSERT BASKETS SHOWN W/OUT FILTER BAGS
430 MICRON FILTER BAGS REQUIRED INSIDE BASKETS
APPROXIMATE FULL WEIGHT 43LBS/BASKET

27" HDPE FRAME INSERT

EMERGENCY OVERFLOW PORTS

MEETS MN/DOT SPECIFICATION 3891.F
"STORM DRAIN INLET PROTECTION-FILTER BAG INSERT"
DESIGNED FOR NEENAH R-3250-A OR R-3250-1
(MNDOT 801) FRAME CASTING

| | |
|------------------------------------|----------------------|
| FILTER AREA | 5.65 FT ² |
| OVERFLOW AREA | 0.42 FT ² |
| MAXIMUM OVERFLOW RATE (Ø 7" HEAD) | 1.99 CFS |
| MAXIMUM OVERFLOW RATE (Ø 13" HEAD) | 2.79 CFS |
| BASKET WEIGHT (EMPTY) | 1 LB |
| BASKET WEIGHT (FULL-APPROX.) | 45 LBS |

GENERAL NOTES:

- PRODUCT DESIGN DOES NOT INTERFERE WITH LOAD BEARING CAPACITY OF FRAMES.
- MADE OF UV RESISTANT MATERIAL.
- DURABLE ECO-FRIENDLY HDPE PROVIDES A LIGHTWEIGHT AND STRONG PRODUCT THAT CAN EASILY BE RE-USED NEXT PROJECT.
- FLOW RATES COMPARE TO OR EXCEED FLOW RATES OF COMMONLY USED GRATES.
- BASKET DESIGN PROVIDES LARGER FILTER AREA AND PROVIDES EASY CLEANING, REDUCING OVERFLOW INSTANCES AND SEDIMENT LOAD ON THE SEWER SYSTEM.
- DESIGNED TO FIT NEENAH R-3250-1 (Mndot 801).

COON RAPIDS Minnesota
DRAWN: R.L.S. DATE: 3/4/2019 SCALE: NONE PLATE NO. EC-1

REUSABLE 400 MICRON FILTER BAG

(2) INDIVIDUAL BASKETS FOR EASE OF MAINTENANCE, APPROXIMATE FULL WEIGHT 50LBS/BASKET

| | |
|------------------------------------|----------------------|
| FILTER AREA | 2.75 FT ² |
| OVERFLOW AREA | 0.4 FT ² |
| MAXIMUM OVERFLOW RATE (Ø 7" HEAD) | 2.00 CFS |
| MAXIMUM OVERFLOW RATE (Ø 13" HEAD) | 2.90 CFS |
| BASKET WEIGHT (EMPTY) | 1 LB |
| BASKET WEIGHT (FULL-APPROX.) | 50 LBS |

GENERAL NOTES:

- PRODUCT DESIGN DOES NOT INTERFERE WITH LOAD BEARING CAPACITY OF FRAMES.
- MADE OF UV RESISTANT MATERIAL.
- DURABLE ECO-FRIENDLY HDPE PROVIDES A LIGHTWEIGHT AND STRONG PRODUCT THAT CAN EASILY BE RE-USED NEXT PROJECT.
- FLOW RATES COMPARE TO OR EXCEED FLOW RATES OF COMMONLY USED GRATES.
- BASKET DESIGN PROVIDES LARGER FILTER AREA AND PROVIDES EASY CLEANING, REDUCING OVERFLOW INSTANCES AND SEDIMENT LOAD ON THE SEWER SYSTEM.
- DESIGNED TO FIT NEENAH R-3250-006 (Mndot 802 OR 805).

COON RAPIDS Minnesota
DRAWN: R.L.S. DATE: 3/4/2019 SCALE: NONE PLATE NO. EC-3

REUSABLE 400 MICRON FILTER BAG IN EACH BASKET

(3) INDIVIDUAL BASKETS FOR EASE OF MAINTENANCE, APPROXIMATE FULL WEIGHT 70LBS/BASKET

| | |
|------------------------------------|---------------------|
| FILTER AREA | 6.5 FT ² |
| OVERFLOW AREA | 0.6 FT ² |
| MAXIMUM OVERFLOW RATE (Ø 7" HEAD) | 3.00 CFS |
| MAXIMUM OVERFLOW RATE (Ø 13" HEAD) | 4.00 CFS |
| BASKET WEIGHT (EMPTY) | 1 LB |
| BASKET WEIGHT (FULL-APPROX.) | 70 LBS |

GENERAL NOTES:

- PRODUCT DESIGN DOES NOT INTERFERE WITH LOAD BEARING CAPACITY OF FRAMES.
- MADE OF UV RESISTANT MATERIAL.
- DURABLE ECO-FRIENDLY HDPE PROVIDES A LIGHTWEIGHT AND STRONG PRODUCT THAT CAN EASILY BE RE-USED NEXT PROJECT.
- FLOW RATES COMPARE TO OR EXCEED FLOW RATES OF COMMONLY USED GRATES.
- BASKET DESIGN PROVIDES LARGER FILTER AREA AND PROVIDES EASY CLEANING, REDUCING OVERFLOW INSTANCES AND SEDIMENT LOAD ON THE SEWER SYSTEM.
- DESIGNED TO FIT NEENAH R-3067 OR R-3290 SERIES.

COON RAPIDS Minnesota
DRAWN: R.L.S. DATE: 3/1/2019 SCALE: NONE PLATE NO. EC-2

NOTE: B6-18 CURB TAKES APPROXIMATELY 0.0582 CU. YCS. OF CONCRETE PER LIN. FOOT OR 17.2 LIN. FEET PER CJ. YD.

COON RAPIDS Minnesota
DRAWN: R.L.S. DATE: 1/24/2019 SCALE: NONE PLATE NO. STR-2

2" BITUMINOUS PATCH LIFT AROUND CASTING (5.5'X5.5' MIN.)

SANITARY & STORM DRAIN CASTINGS IN PAVEMENT

SET CASTING 1/4" TO 1/2" LOW

FINAL BITUMINOUS WEAR LIFT

2" BITUMINOUS PATCH LIFT AROUND CASTING (5.5'X5.5' MIN.)

RECLAIMED GRAVEL OR CLASS 5

2" BITUMINOUS PATCH LIFT AROUND VALVE BOX (3.8'X3.8' MIN.)

WATER MAIN VALVE BOX IN PAVEMENT

SET VALVE BOX 1/4" TO 1/2" LOW

FINAL BITUMINOUS WEAR LIFT

2" BITUMINOUS PATCH LIFT AROUND VALVE BOX (3.8'X3.8' MIN.)

RECLAIMED GRAVEL OR CLASS 5

COON RAPIDS Minnesota
DRAWN: R.L.S. DATE: 1/29/2018 SCALE: NONE PLATE NO. STR-24

PROPERTY LINE

EXIST. 5' TYP. OR AS NOTED ON PLAN

INSTALL ASPHALT EXPANSION MATERIAL EVERY 50 FEET.

CONTRACTION JOINTS EVERY 5 FEET

BOULEVARD SLOPE TO STREET: MINIMUM: 2%, MAXIMUM: 10%

CURB

SECTION A-A

PROPERTY LINE

VARIABLE (SEE PLAN SHEET)

EXIST. 5' TYP. OR AS NOTED ON PLAN

1' TYPICAL (MAY VARY)

BOULEVARD SLOPE TO STREET: MINIMUM: 2%, MAXIMUM: 10%

SIDEWALK CROSS SLOPE TO STREET IS A MAXIMUM OF 2%

4" MINIMUM TOPSOIL

CLEAN SAND

4" THICK MINIMUM, 6" THRU RESIDENTIAL DWY. AND PEDESTRIAN RAMPS, 8" THRU COMMERCIAL DWY., OR AS NOTED ON PLAN.

COON RAPIDS Minnesota
DRAWN: R.L.S. DATE: 1/3/2019 SCALE: NONE PLATE NO. STR-6

PROPERTY LINE

EXISTING BITUMINOUS DRIVEWAY

MATCH EXISTING

SAW CUT DRIVEWAY AS MARKED BY CITY

TACK EDGES

2"

TAPER

DEPRESSED CURB (FOR B618)

PROPERTY LINE

LENGTH VARIABLE

MAX. 10% MIN. 2%

1" GUTTER

4" RECLAIM OR CL.5 GRAVEL (MIN.)

DRIVEWAY HAS TO HAVE STRAIGHT CUT OR CONTRACTOR TO RE-SAW (INCIDENTAL)

2" BITUMINOUS PATCH (MINIMUM), MATCH EXISTING THICKNESS IF GREATER

COON RAPIDS Minnesota
DRAWN: R.L.S. DATE: 1/2/2019 SCALE: NONE PLATE NO. STR-7

PROPERTY LINE

CONCRETE DWY.

MATCH EXISTING

BOULEVARD AREA

CONCRETE APRON WITH WINGS FOR B6 STYLE CURB. SURMOUNTABLE CURB MATCH EXISTING DRIVEWAY.

CONTRACTION JOINTS -LINE UP WITH DWY.

6"

EXPANSION JOINT

4' TYP.

TAPER

DEPRESSED CURB (FOR B6 STYLE)

TAPER

PROPERTY LINE

LENGTH VARIABLE

MAX. 10% MIN. 2%

MAX. 10% MIN. 2%

1" GUTTER

4" RECLAIM OR CL.5 GRAVEL (MIN.)

6"

RE-ESTABLISH REINFORCING WHEN IN PLACE

RESIDENTIAL DRIVE

DRILL REBAR TO EXISTING WHEN MATCHING AND WHERE REINFORCING IS IN PLACE

COON RAPIDS Minnesota
DRAWN: J.H. DATE: 2/21/2023 SCALE: NONE PLATE NO. STR-8

| NO. | DATE | REVISIONS |
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| | | |

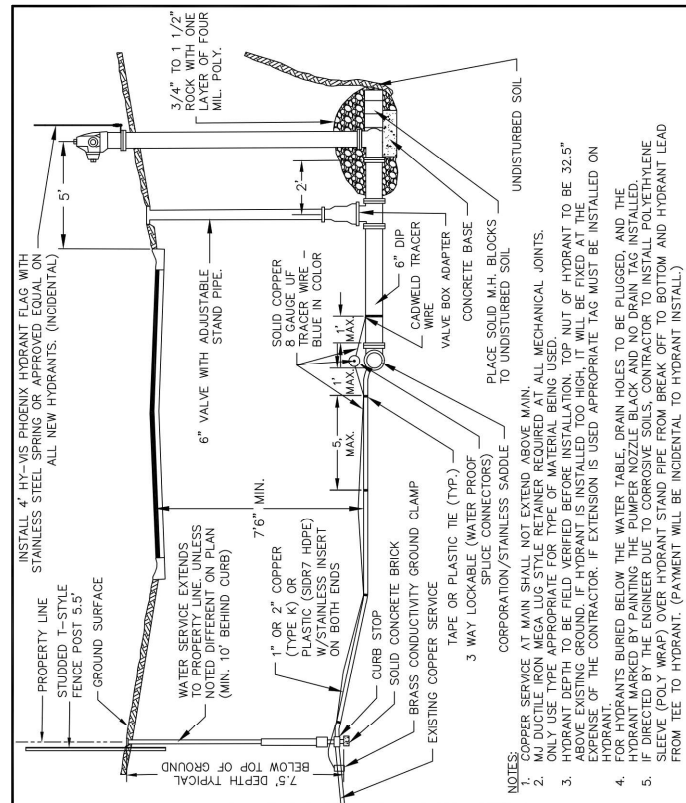
COON RAPIDS Minnesota
CITY OF COON RAPIDS
ENGINEERING DEPARTMENT
11155 ROBINSON DRIVE
COON RAPIDS, MN. 55433-3761
763-755-2880 FAX 163-767-6491

DESIGNED BY: H.H.
DRAWING BY: Z.J.P.
CHECKED BY: M.C.H.

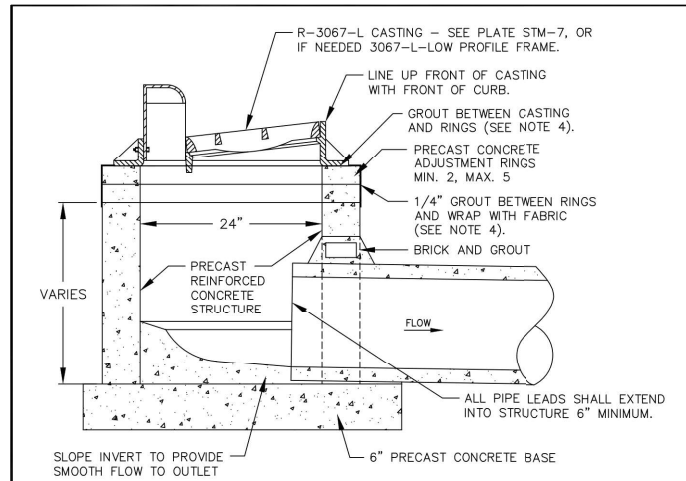
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINNESOTA.
MARK C. HANSEN P.E.
LICENSE # 43920
DATE: 4/19/2023

23-10 WATERMAIN REPLACEMENT
CITY OF COON RAPIDS, MINNESOTA

STANDARD PLATES
4
12

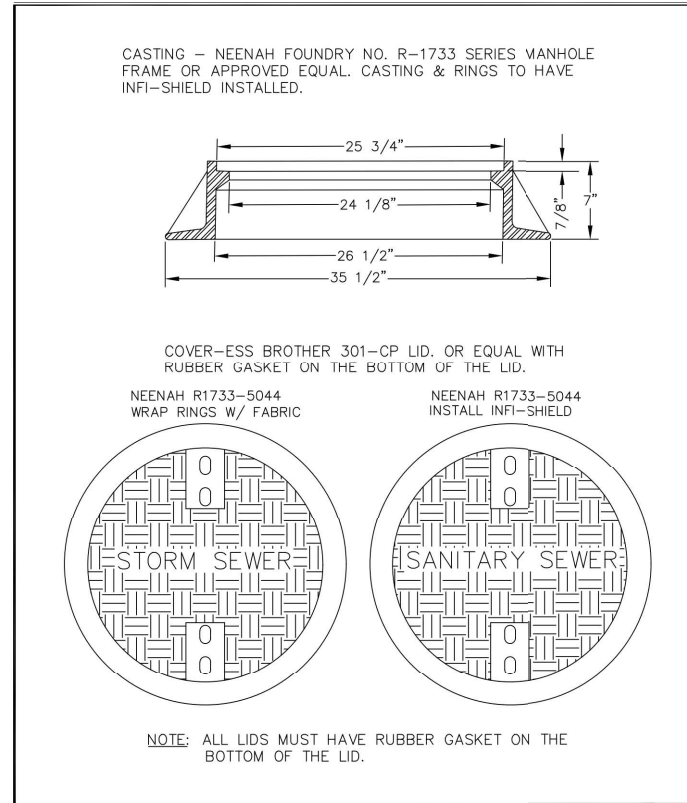


TYPICAL HYDRANT & WATER SERVICE LAYOUT FOR NEW & TOTAL REPLACEMENT OF WATER MAIN
DRAWN: R.L.S. DATE: 1/21/2020 SCALE: NONE PLATE NO. WM-3

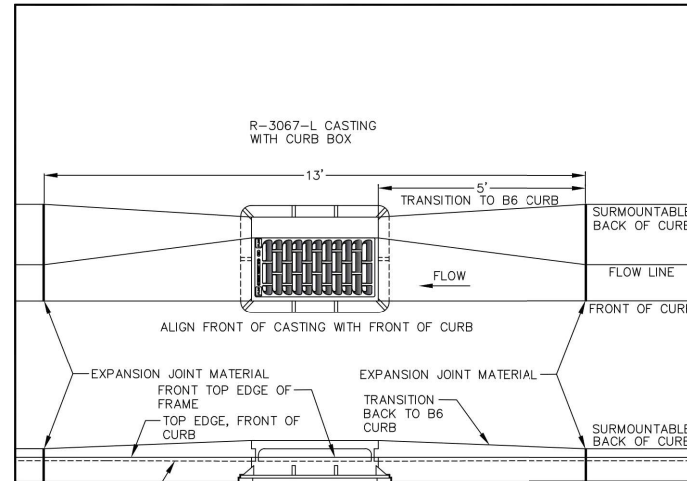


- NOTES:**
1. SLOPE BENCH TO INVERT, TOP OF BENCH TO BE AT HALF THE HEIGHT OF DOWN STREAM PIPE DIAMETER. (DO NOT ADD FILLERS BEFORE POURING BENCH)
 2. FILL VOID BETWEEN STRUCTURE AND PIPE WITH BRICK AND GROUT. GROUT BETWEEN THE BRICK AND ACROSS THE FACE. (SEE NOTE 4)
 3. INSIDE DIMENSIONS 2.00' X 3.00' (STRENGTH DESIGN OF BASE SLAB AND STRUCTURE PER MANUFACTURER.)
 4. CONTRACTOR SHALL USE "SPECIAL UNDERGROUND UTILITY MORTAR" MADE BY TWIN CITY CONCRETE PRODUCTS OF ST. PAUL OR APPROVED EQUAL. (SEE SPECIFICATION 9.05)
 5. LOW POINTS SHALL HAVE A TYPE "L BI-DIRECTIONAL GRATE".
 6. STRUCTURE TO BE PRECAST UNLESS APPROVED BY CITY ENGINEER.

2' X 3' CATCH BASIN
DRAWN: R.L.S. DATE: 11/28/2018 SCALE: NONE PLATE NO. STM-13

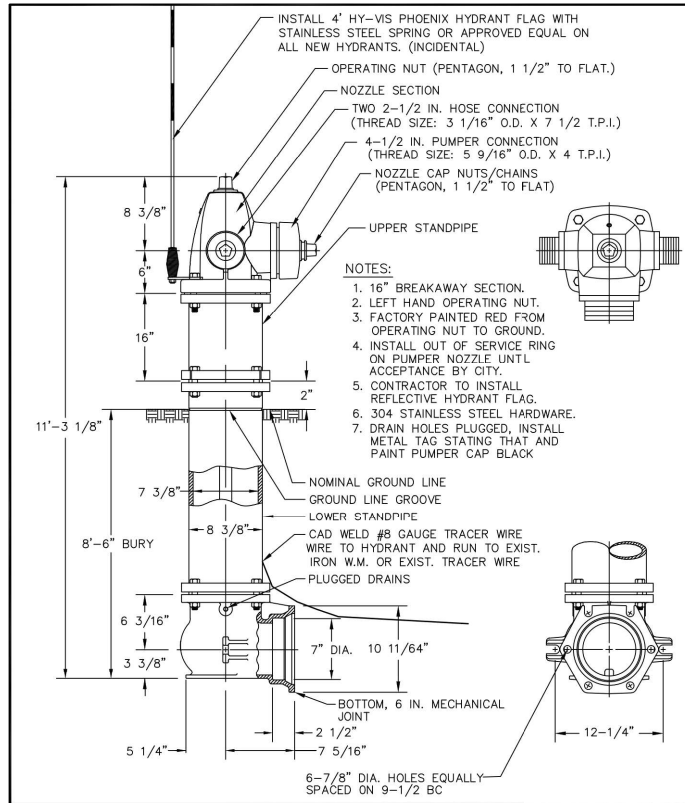


STANDARD MANHOLE CASTINGS
DRAWN: R.L.S. DATE: 1/25/2019 SCALE: NONE PLATE NO. SAN-7

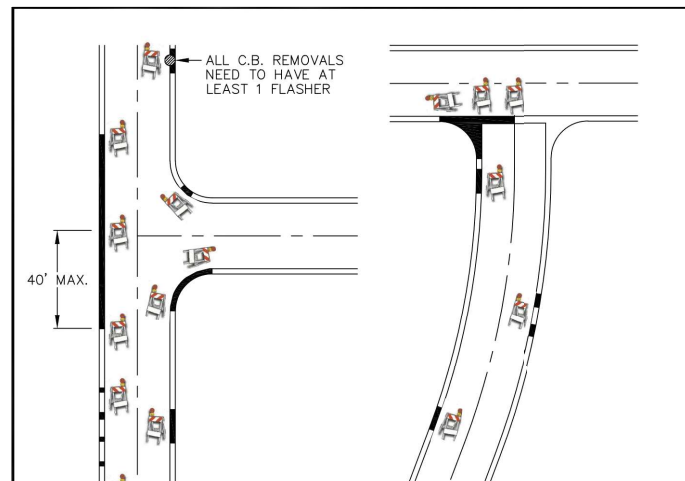


- NOTES:**
1. EXPANSION JOINT MATERIAL FRONT TOP EDGE OF FRAME
 2. EXPANSION JOINT MATERIAL TOP EDGE, FRONT OF CURB
 3. EXPANSION JOINT MATERIAL TRANSITION BACK TO B6 CURB
 4. EXPANSION JOINT MATERIAL SURMOUNTABLE BACK OF CURB
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CURB TRANSITION FOR R-3067-L CASTING WITH MOUNTABLE CURB
DRAWN: R.L.S. DATE: 3/3/2017 SCALE: NONE PLATE NO. STM-15

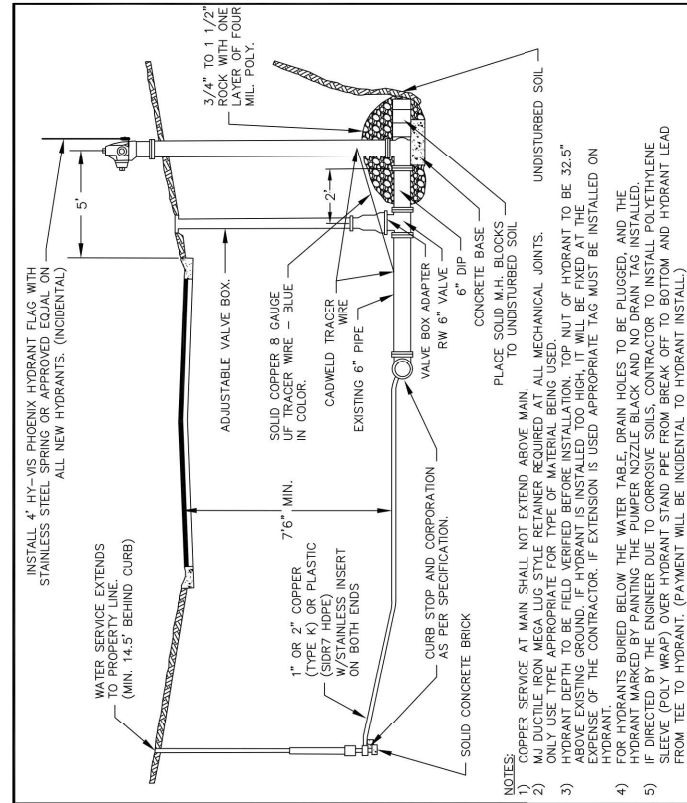


HYDRANT DETAIL WB67 PACER 8-6\"/>

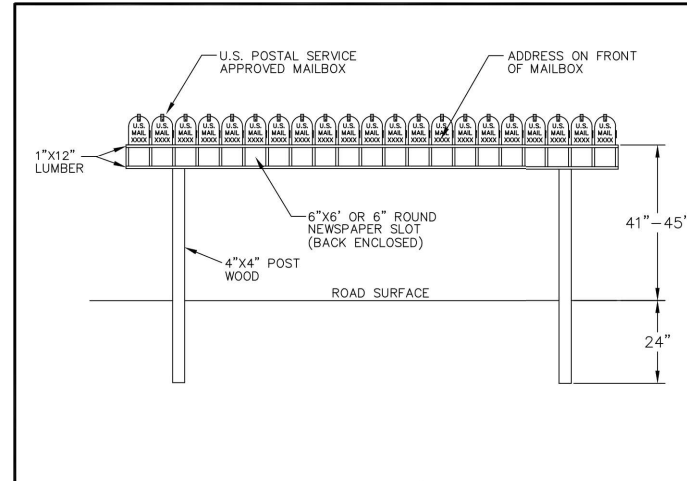


- NOTE:** TYPE 1 BARRICADES WITH FLASHER ARE REQUIRED AND ALL FLASHERS SHALL BE IN WORKING CONDITION

MINIMUM FLASHER PLACEMENT FOR CONCRETE REMOVAL AREAS
DRAWN: R.L.S. DATE: 3/8/2019 SCALE: NONE PLATE NO. STR-1



TYPICAL WATER SERVICE LAYOUT & HYDRANT REPLACEMENT (ONLY) LAYOUT
DRAWN: R.L.S. DATE: 1/9/2019 SCALE: NONE PLATE NO. WM-2



- NOTE:** FRONT OF MAILBOX TO BE INSTALLED AT 6"-8" FROM FACE OF CURB OR EDGE OF ROADWAY.

TEMPORARY MAILBOX DETAIL
DRAWN: R.L.S. DATE: 1/24/2019 SCALE: NONE PLATE NO. STR-17

| NO. | DATE | REVISIONS |
|-----|------|-----------|
| | | |
| | | |

COON RAPIDS
CITY OF COON RAPIDS
ENGINEERING DEPARTMENT
11155 ROBINSON DRIVE
COON RAPIDS, MN. 55433-3761
763-755-2880 FAX 163-767-6491

DESIGNED BY: H.H.
DRAWING BY: Z.J.P.
CHECKED BY: M.C.H.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINNESOTA.
MARK C. HANSEN P.E.
LICENSE # 43920
DATE: 4/19/2023

23-10 WATERMAIN REPLACEMENT
CITY OF COON RAPIDS, MINNESOTA

K:\2023 ENG DEPT PROJECTS\23-10 NORTHDALE WATERMAIN REPLACEMENT\23-10 NORTHDALE BLVD WATERMAIN REPLACEMENT

3:43 PM

April 20, 2023

GENERAL NOTES:

1. INLET PROTECTION REQUIRED ON ALL CATCH BASINS - SEE DETAILS IN SPECS.
2. ALL CURB, BITUMINOUS AND CONCRETE REMOVALS SHALL BE SAW CUT FULL DEPTH TO PROVIDE A CLEAN EDGE FOR NEW JOINT. EXISTING PAVEMENT SHALL BE BUTT-JOINTEED AT ALL INTERSECTIONS.
3. CURB IS CONCRETE B6-18 (SEE TYPICAL SECTIONS ON PAGE 3 OF THIS PLAN FOR LOCATIONS).
4. ALL CURB LENGTHS OVER 50' IDENTIFIED FOR REPLACEMENT SHALL BE MACHINED POUDED. 5' ON EACH SIDE OF CATCH BASINS, TO BE PAID AS HAND PLACED.
5. CURB REMOVAL SHALL BE MARKED IN THE FIELD BY THE ENGINEER. CONTRACTOR NOT TO REMOVE ANY CURB UNTIL STAKED BY THE CITY FOR GRADES. OTHERWISE IT WILL BE CONTRACTORS RESPONSIBLY TO STAKE IT AT NO COST TO THE CITY.
6. ALL PEDESTRIAN RAMPS WILL HAVE TRUNCATED DOMES INSTALLED, ALL PEDESTRIAN RAMPS WILL BE POUDED 6" THICK, GRAY IN COLOR, AND BE ADA COMPLIANT.
7. CONTRACTOR SHALL PROVIDE A MINIMUM 24 HRS NOTICE TO RESIDENTS PRIOR TO REMOVING AND REPLACING CONCRETE THAT WILL AFFECT THEIR ABILITY TO ACCESS THEIR PROPERTY. CONCRETE WORK SHALL NOT BE ALLOWED IN DRIVEWAY AREA PRIOR TO 8 A.M.
8. EXPANSION JOINTS IN CURB SHALL BE PLACED EVERY 100 LF AND 5' ON EACH SIDE OF CATCH BASINS AND AT RADIUS POINTS.
9. SIDEWALK SHALL HAVE EXPANSION PLACED IN EVERY LOCATION WHERE SIDEWALK AND PEDESTRIAN RAMPS ARE REPLACED. PLACE EXPANSION BETWEEN SIDEWALK AND CURB FOR PEDESTRIAN RAMP. NEW SIDEWALK WILL HAVE EXPANSION EVERY 50 LF. EXPANSION WILL BE PLACED AT DRIVEWAYS ON EACH SIDE WHERE SIDEWALK MEETS DRIVEWAY.
10. THE CONTRACTOR SHALL REPAIR AND MAINTAIN ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL DEVICES THROUGHOUT THE PROJECT.

WATER MAIN NOTES

1. REMOVED EXISTING WATER MAIN, FITTINGS, VALVES, HYDRANTS, WATER SERVICES, ETC. (UNLESS NOTED OTHERWISE) THESE ITEMS WILL BECOME THE PROPERTY OF THE CONTRACTOR, THE CITY WILL NOT BE ACCEPTING ANY OF IT.
2. NEW WATER MAIN, EPOXY FITTINGS, VALVES, HYDRANTS, WATER SERVICES, BOLTS, ETC. ARE TO BE MANUFACTURED IN THE U.S.A. (SEE SPECIFICATIONS FOR DETAILS).
3. ALL VALVE BOXES INCLUDING HYDRANT VALVES WILL HAVE A VALVE BOX ADAPTER INSTALLED. (SEE SPECIFICATIONS FOR DETAILS).
4. FOR HYDRANTS BURIED BELOW THE WATER TABLE, DRAIN HOLES TO BE PLUGGED, AND THE HYDRANT MARKED BY PAINTING THE PUMPER NOZZLE BLACK AND NO DRAIN TAG INSTALLED ON THE HYDRANT. (INCIDENTAL TO HYDRANT INSTALLATION).
5. IF THE EXISTING TOP SECTION OF THE GATE VALVE BOX IS BROKEN PRIOR TO CONSTRUCTION OR CAN'T BE ADJUSTED, CONTRACTOR SHALL REPLACE THE TOP SECTION AND CAP WITH NEW ONES. BID PRICE FOR VALVE BOX SECTIONS SHALL INCLUDE NEW CAP. VALVE BOXES SHALL BE LEFT BELOW RECLAIM DEPTH AND ADJUSTED TO FINAL GRADE PRIOR TO WEAR COURSE PAVING. ANY DAMAGE TO VALVE BOXES DURING CONSTRUCTION, SHALL BE REPAIRED AT NO COST TO THE CITY. PAYMENT IS VALVE BOX SECTIONS (EACH) AND INCLUDES NEW CAP. ADJUSTMENT FOR FINAL PAVING IS ADJUST GATE VALVE BOX (EACH).
6. ALL SLEEVES INSTALLED FOR WATER MAIN, SHALL BE MJ SOLID SLEEVE LONG (12" MIN. LENGTH).
7. MJ DUCTILE IRON MEGA LUG STYLE RETAINERS ARE REQUIRED AT ALL MECHANICAL JOINTS. ONLY USE THE APPROPRIATE TYPE FOR THE TYPE OF PIPE MATERIAL BEING USED.

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
2. THE EXISTING SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS QUALITY LEVEL "D" UNLESS OTHERWISE NOTED. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38/02, ENTITLED STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF SUBSURFACE QUALITY DATA BY THE FHWA. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE ENGINEER.
3. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT GOPHER STATE ONE CALL. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE BEFORE COMMENCING WORK.
5. ANY SITE FEATURES NOT NOTED FOR REMOVAL SHALL BE PROTECTED BY THE CONTRACTOR. ANY EXISTING PAVEMENT, CURBS AND/OR SIDEWALK DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE TO THE SATISFACTION OF THE ENGINEER AND OWNER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED.

GENERAL EROSION CONTROL NOTES

1. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.
2. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED.
3. ALL STAGING AREAS, STOCKPILES, SPOILS, ETC. SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. OTHERWISE, COVERING OR ENCIRCLING THESE AREAS WITH SOME PROTECTIVE MEASURE WILL BE NECESSARY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
5. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
6. TEMPORARY SEEDING OR OTHER APPROVED METHODS OF STABILIZATION SHALL BE INITIATED WITHIN 7 DAYS OF ROUGH GRADING OR INACTIVITY.
7. EROSION CONTROL DEVICES SHOWN ON THESE PLANS SHALL BE INSTALLED, PRIOR TO THE START OF LAND-DISTURBING ACTIVITIES.
8. ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION AS REQUIRED BY ALL JURISDICTIONS UNTIL NO LONGER REQUIRED OR COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENT CONTROL SHALL BE CHECKED BUY A CERTIFIED PERSON AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:
 - 8.1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.
 - 8.2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD GROWTH IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEDED AS NEEDED. FOR MAINTENANCE REQUIREMENTS REFER TO THE STANDARD SPECIFICATIONS.
 - 8.3. SILT FENCE SHOULD BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE THIRD THE HEIGHT OF THE SILT FENCE.
 - 8.4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY.
 - 8.5. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.
 - 8.6. DISTURBED SOILS AND STOCKPILES SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 24 HOURS AFTER CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED.

| NO. | DATE | REVISIONS |
|-----|------|-----------|
| | | |
| | | |



CITY OF COON RAPIDS
ENGINEERING DEPARTMENT
11155 ROBINSON DRIVE
COON RAPIDS, MN. 55433-3761
763-755-2880 FAX 163-767-6491

DESIGNED BY: H.H.
DRAWING BY: Z.J.P.
CHECKED BY: M.C.H.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINNESOTA.
MARK C. HANSEN P.E.
LICENSE # 43920
DATE: 4/20/2023

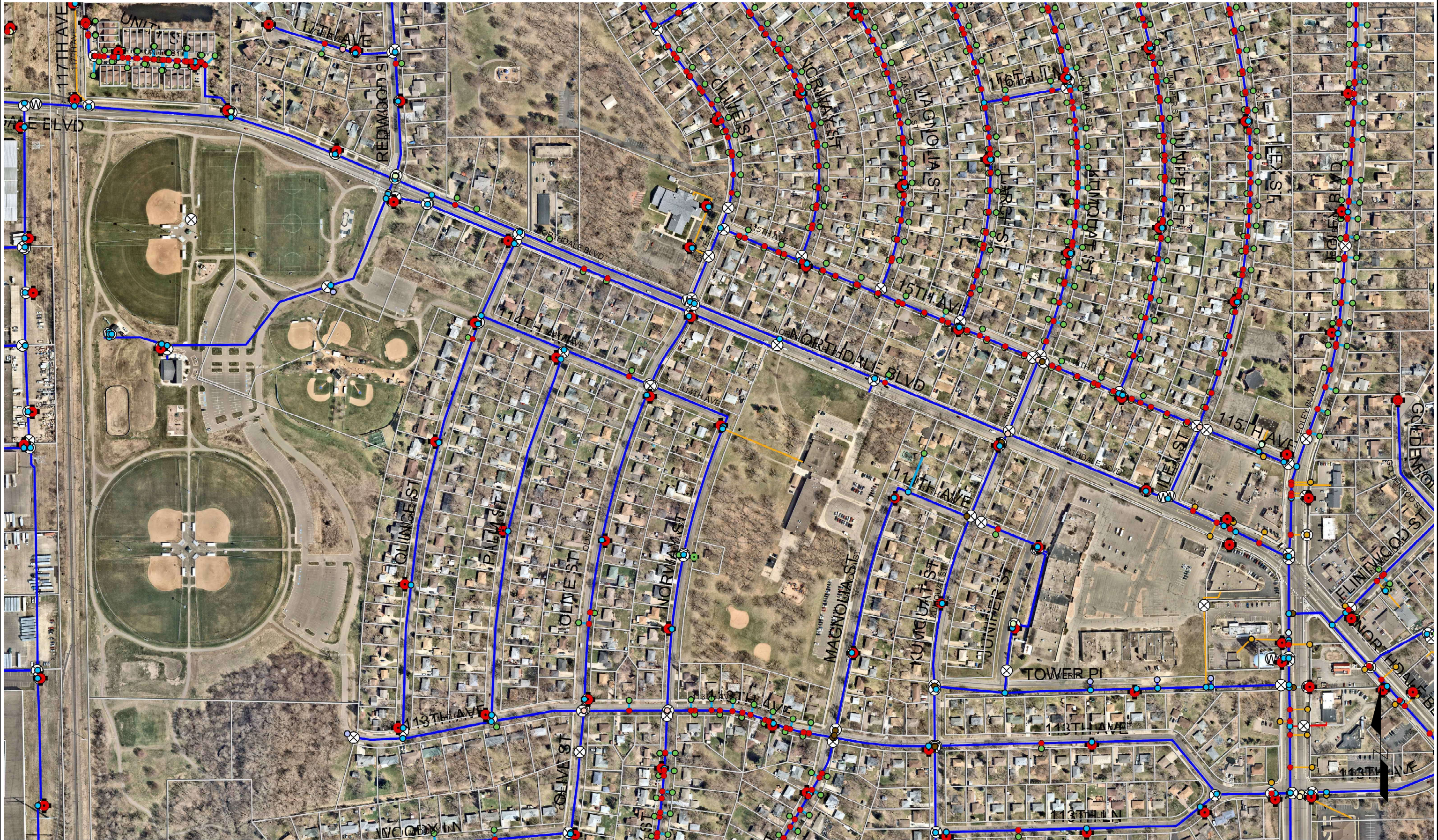
23-10 WATERMAIN REPLACEMENT
CITY OF COON RAPIDS, MINNESOTA

CONSTRUCTION NOTES

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April 19, 2023



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 MINNESOTA
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 MARK C. HANSEN P.E.
 LICENSE # 43920

 DATE: 4/19/2023

23-10 WATERMAIN REPLACEMENT
 CITY OF COON RAPIDS, MINNESOTA

OVERVIEW MAP

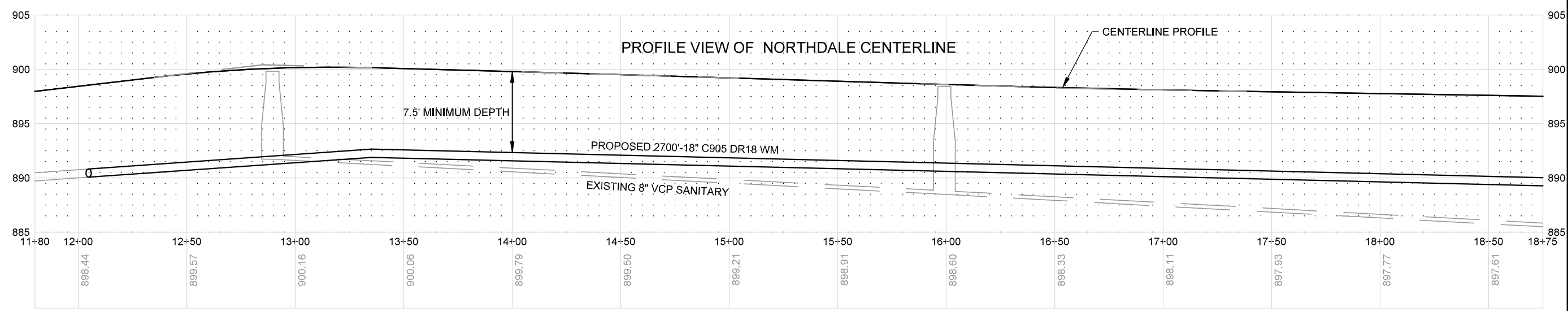
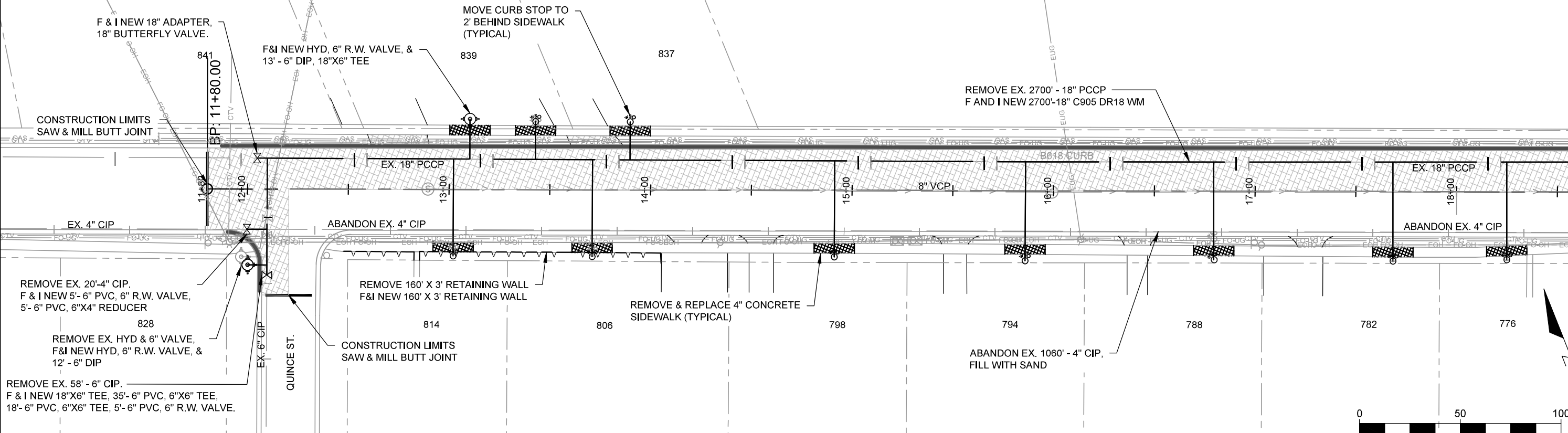
NORTHDALE BLVD.

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April 19, 2023

MATCHLINE SHEET # 9



| NO. | DATE | REVISIONS |
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 11155 ROBINSON DRIVE
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 MARK C. HANSEN P.E.
 LICENSE # 43920
 DATE: 4/19/2023

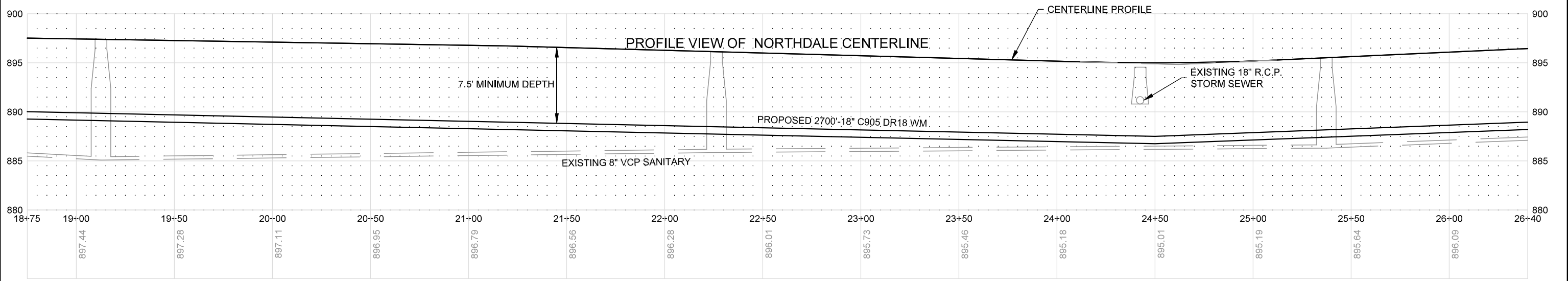
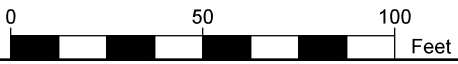
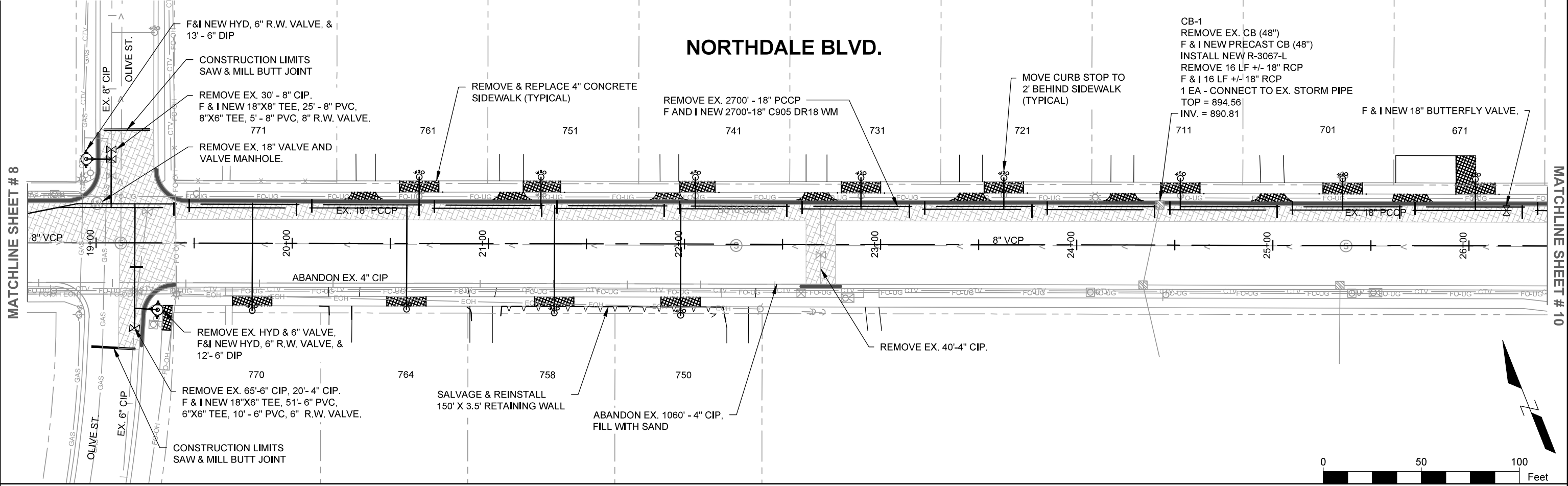
23-10 WATERMAIN REPLACEMENT
 CITY OF COON RAPIDS, MINNESOTA

PLAN & PROFILE
8
12

NORTHDALE BLVD.

MATCHLINE SHEET # 8

MATCHLINE SHEET # 10



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April 19, 2023 2:26 PM

| NO. | DATE | REVISIONS |
|-----|------|-----------|
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COON RAPIDS
 CITY OF COON RAPIDS
 ENGINEERING DEPARTMENT
 11155 ROBINSON DRIVE
 COON RAPIDS, MN. 55433-3761
 763-755-2880 FAX 163-767-6491

DESIGNED BY: H.H.
 DRAWING BY: Z.J.P.
 CHECKED BY: M.C.H.

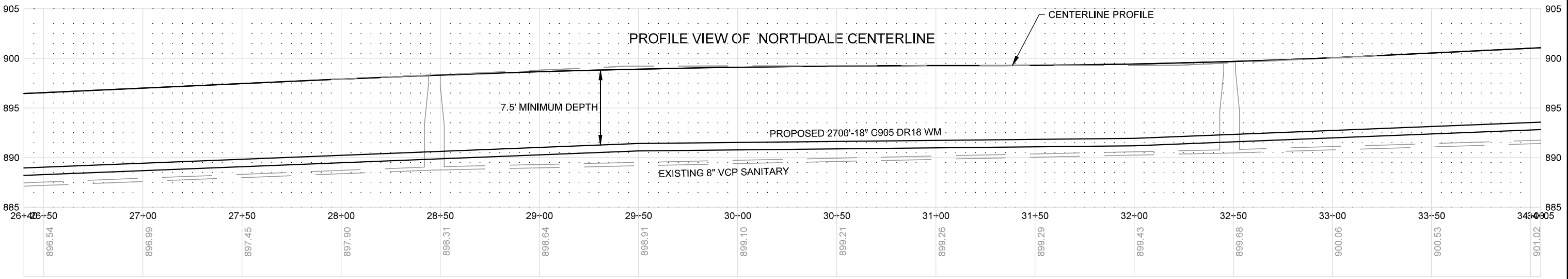
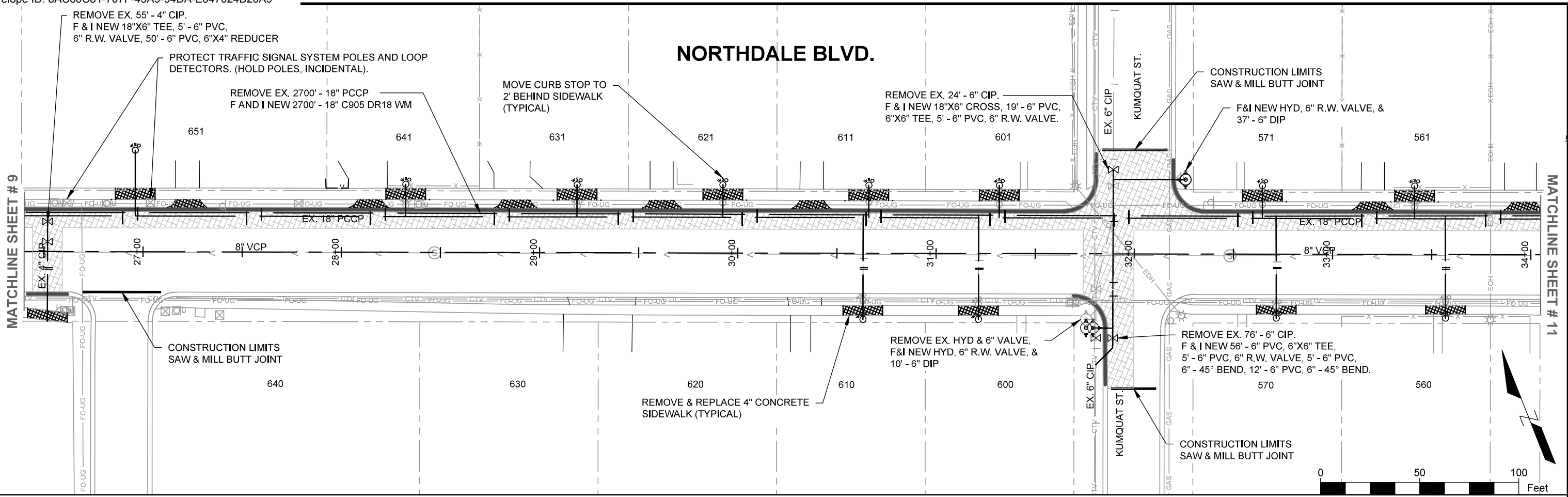
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINNESOTA.
 MARK C. HANSEN P.E.
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23-10 WATERMAIN REPLACEMENT
 CITY OF COON RAPIDS, MINNESOTA

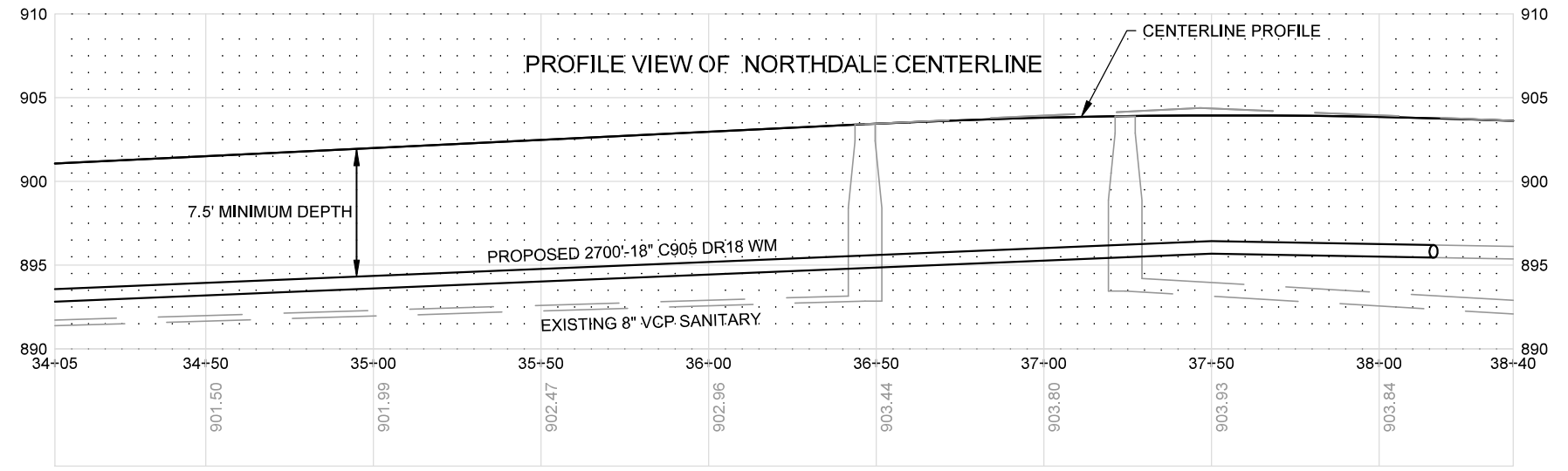
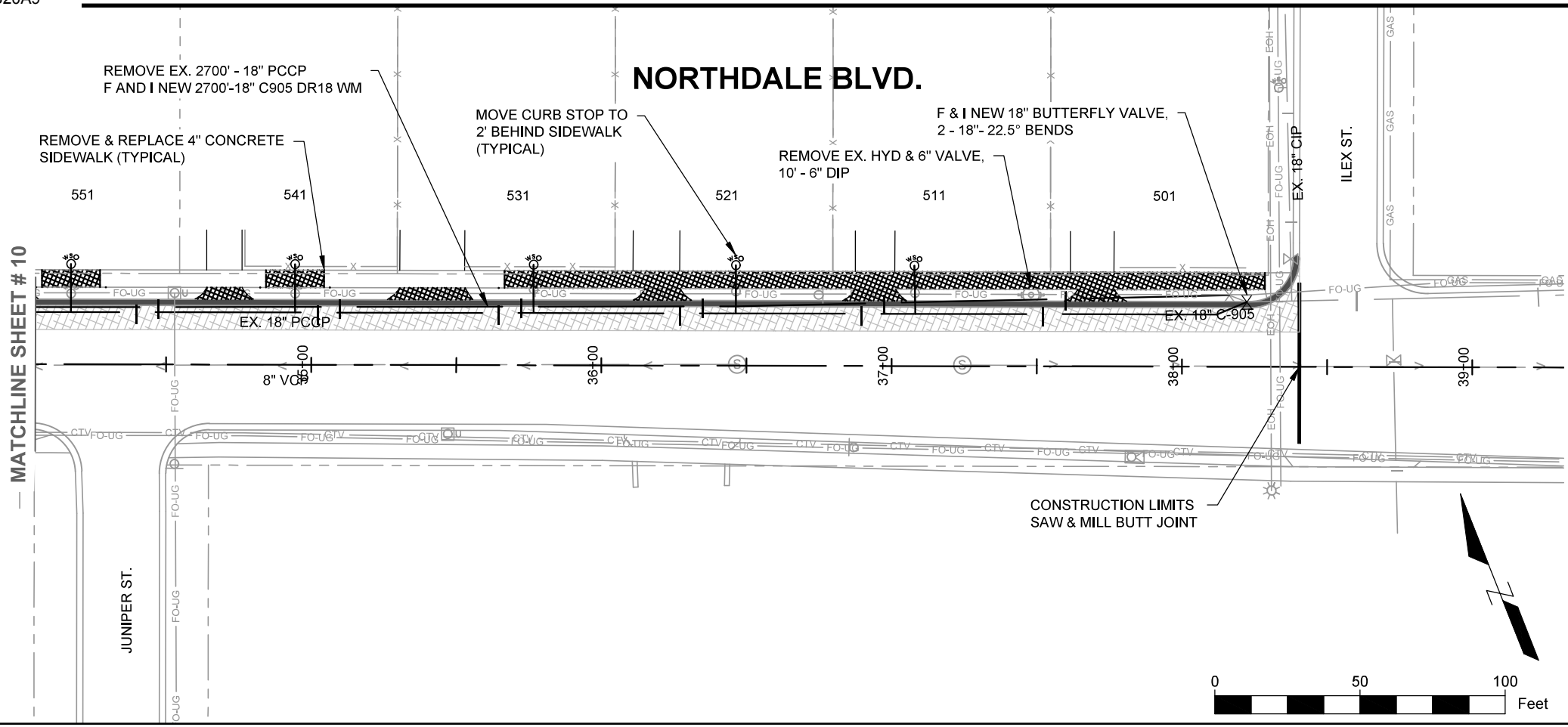
PLAN & PROFILE

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April 19, 2023 2:26 PM



| NO. | DATE | REVISIONS | CITY OF COON RAPIDS ENGINEERING DEPARTMENT 11155 ROBINSON DRIVE COON RAPIDS, MN. 55433-3761 763-755-2880 FAX 163-767-6491 | | DESIGNED BY: H.H. | I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINNESOTA. MARK C. HANSEN P.E. LICENSE # 43920 | 23-10 WATERMAIN REPLACEMENT CITY OF COON RAPIDS, MINNESOTA | PLAN & PROFILE | 10 12 |
|-----|------|-----------|--|--|------------------------------------|---|---|----------------|----------|
| | | | | | DRAWING BY: Z.J.P. | | | | |
| | | | | | CHECKED BY: M.C.H. DATE: 4/19/2023 | | | | |



| NO. | DATE | REVISIONS |
|-----|------|-----------|
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| | | |

COON RAPIDS
 Minnesota
 CITY OF COON RAPIDS
 ENGINEERING DEPARTMENT
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 COON RAPIDS, MN. 55433-3761
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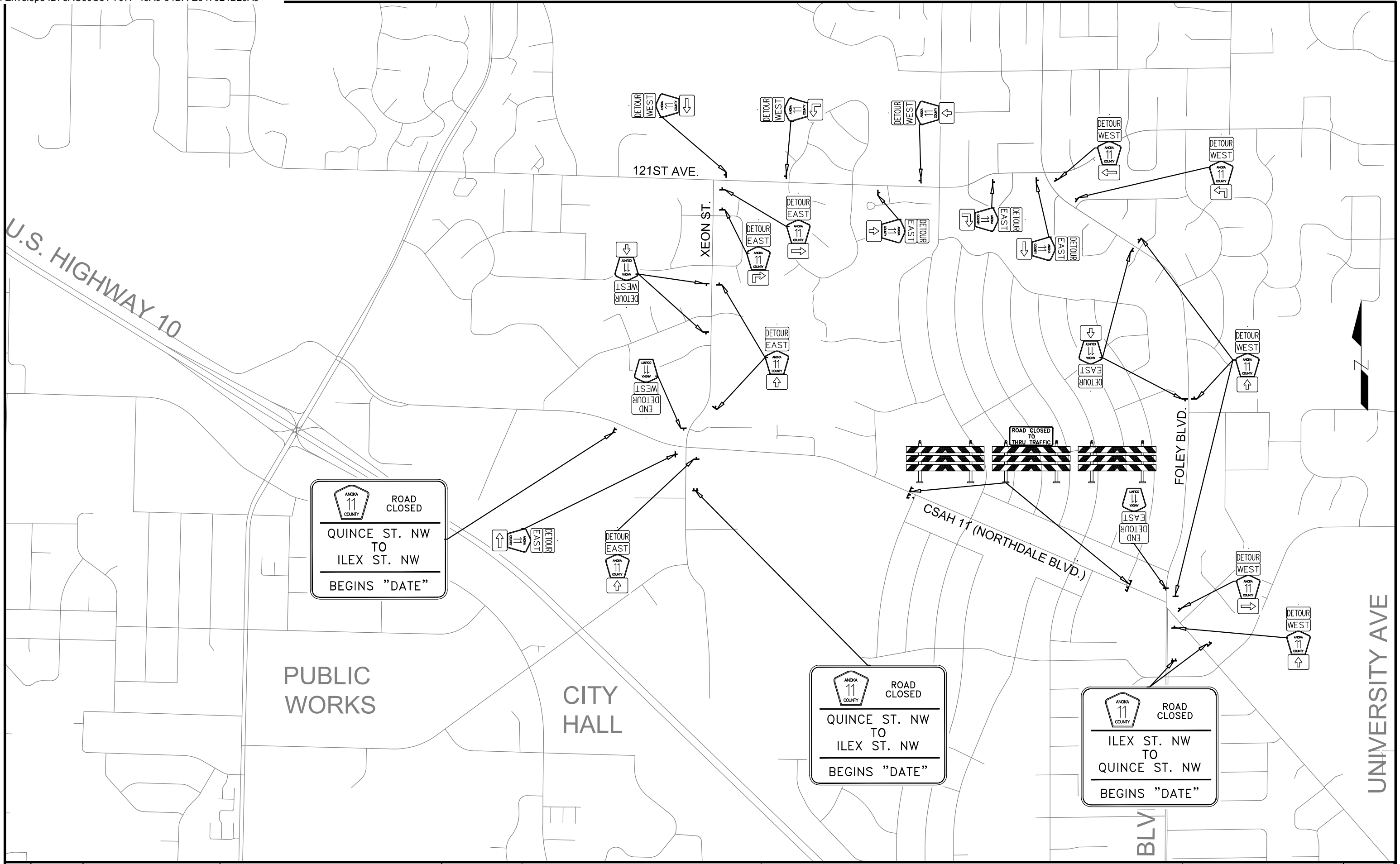
23-10 WATERMAIN REPLACEMENT
 CITY OF COON RAPIDS, MINNESOTA

PLAN & PROFILE

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April 20, 2023 4:27 PM

April 20, 2023



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COON RAPIDS
 Minnesota
 CITY OF COON RAPIDS
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 11155 ROBINSON DRIVE
 COON RAPIDS, MN. 55433-3761
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 LICENSE # 43920
 DATE: 4/20/2023

WATERMAIN REPLACEMENT
 CITY OF COON RAPIDS, MINNESOTA

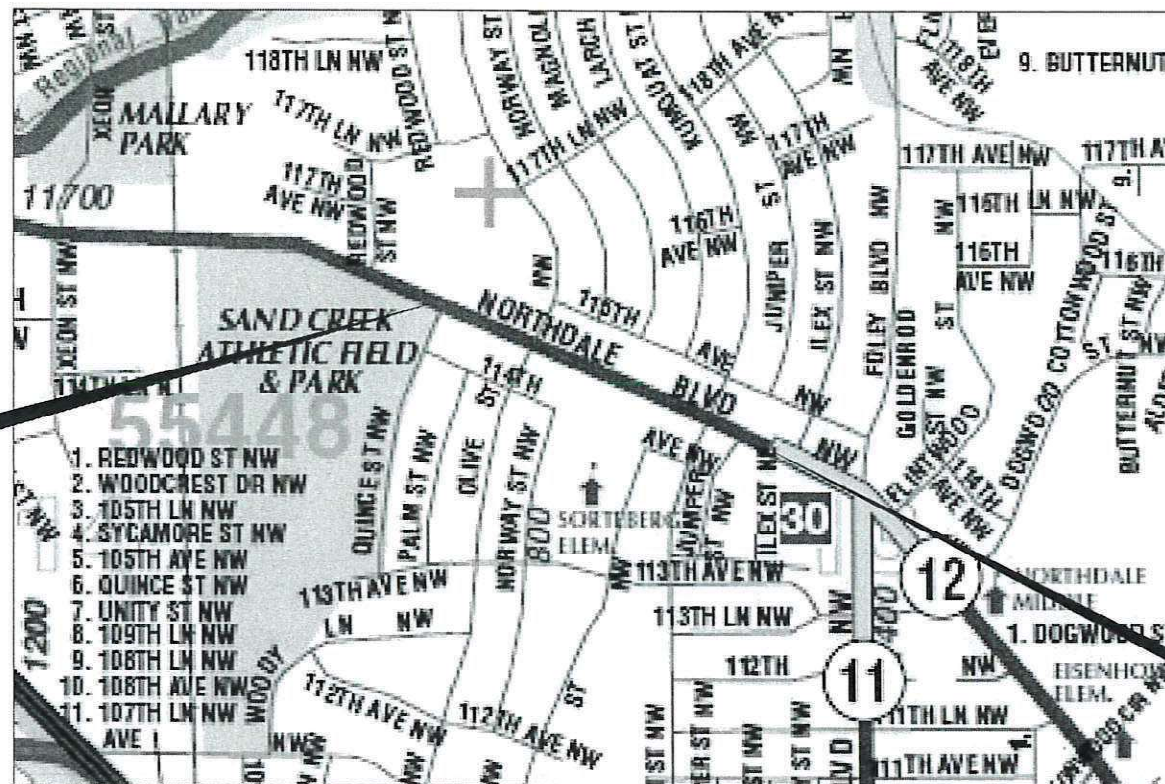
DETOUR PLAN

MINNESOTA DEPARTMENT OF TRANSPORTATION ANOKA COUNTY

CONSTRUCTION PLAN FOR _____ MILL BITUMINOUS, BITUMINOUS SURFACING, CURB & GUTTER, ADA IMPROVEMENTS, AND SEWER REPAIRS

LOCATED ON CSAH 11 BETWEEN QUINCE ST. NW AND JUNIPER ST. NW

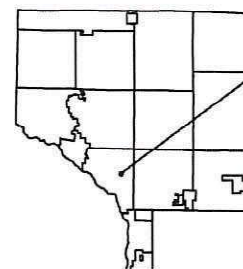
| | | |
|-------------------|----------------|-------------|
| | <u>CSAH 11</u> | |
| GROSS LENGTH | 2574.00 FEET | 0.486 MILES |
| EXCEPTIONS-LENGTH | 0.00 FEET | 0.000 MILES |
| NET LENGTH | 2574.00 FEET | 0.486 MILES |



BEGIN SAP 002-611-039
CSAH 11, STA: 11+76.00

END SAP 002-611-039
CSAH 11, STA: 37+50.00

PROJECT LOCATION



CITY OF COON RAPIDS
ANOKA COUNTY
MN/DOT TRANSPORTATION DISTRICT - METRO
SECTION 13, 14
TOWNSHIP 31 NORTH
RANGE 24 WEST

GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE "SUPPLEMENTAL SPECIFICATIONS" DATED SEPTEMBER 2022 SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

THIS PLAN CONTAINS 22 SHEETS

INDEX

| SHEET NO. | DESCRIPTION |
|-----------|---|
| 1 | TITLE SHEET |
| 2 | STATEMENT OF ESTIMATED QUANTITIES |
| 3 | TABULATIONS |
| 4 | TYPICAL SECTIONS |
| 5-7 | DETAILS |
| 8-9 | CONSTRUCTION PLANS |
| 10-15 | PEDESTRIAN CURB RAMP DETAILS |
| 16-17 | EXISTING SIGNAL PLANS |
| 18 | PERMANENT PAVEMENT MARKING PLAN DETAILS |
| 19 | TEMPORARY SIGNING PERMANENT STRIPING |
| 20 | TEMPORARY SIGNING QUANTITIES |
| 21-22 | SIGNING AND STRIPING DETAILS |

Approved 4-13, 2023
ANOKA COUNTY ENGINEER

Approved 4/13, 2023
CITY OF COON RAPIDS ENGINEER

Dan Erickson Digitally signed by Dan Erickson
Date: 2023.04.13 12:14:30 -05'00'

For _____ DATE _____

DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE AID RULES/POLICY

Dan Erickson Digitally signed by Dan Erickson
Date: 2023.04.13 12:14:48 -05'00'

For _____ DATE _____

STATE AID ENGINEER
APPROVED FOR STATE AID FUNDING

DESIGN DESIGNATION (CSAH 11)

| | | | |
|--------------------|-----------|-----------------------------------|------------------|
| ESAL 20 | 1,062,760 | FUNCTIONAL CLASSIFICATION | A-MINOR ARTERIAL |
| R VALUE | 50 | NO. OF TRAFFIC LANES | 2 |
| ADT (2022) | 8996 | NO. OF PARKING LANES | X |
| PROJ. ADT (2042) | 8996 | DESIGN SPEED | 35 MPH |
| PROJ. HCADT (2042) | 8996 | STOPPING SIGHT DISTANCE BASED ON: | |
| SOIL FACTOR | N/A | HEIGHT OF EYE | 3.5' |
| 10 TON DESIGN | | HEIGHT OF OBJECT | 2.0' |
| | | DESIGN SPEED NOT ACHIEVED AT: | |
| | | STA. _____ TO STA. _____ | MPH _____ |

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: GERALD J AUGER JR.
SIGNATURE:
DATE: 03-14-2023 LIC# NSP NO. 28511

DRAWN BY: DLD DATE: 12/01/2021

DESIGN BY: SPH DATE: 12/01/2021

CHECKED BY: CO DATE: 2/16/2022



**ANOKA COUNTY
HIGHWAY DEPT.**

STATE AID PROJECT 002-611-039

TITLE SHEET

Sheet 1 of 22 Sheets

MBAL10

STATEMENT OF ESTIMATED QUANTITIES

| Tab | Notes | Item Number | Code | ITEM DESCRIPTION | Unit | TOTAL PROJECT QUANTITIES ESTIMATED |
|-----|-------|-------------|-------|--|----------|------------------------------------|
| | | 2021.501 | 00010 | MOBILIZATION | LUMP SUM | 1 |
| | 1 | 2104.502 | 00820 | REMOVE CASTING | EACH | 2 |
| | 2 | 2104.503 | 00195 | SAWING CONCRETE PAVEMENT (FULL DEPTH) | LIN FT | 155 |
| | 2 | 2104.503 | 00205 | SAWING BITUMINOUS PAVEMENT (FULL DEPTH) | LIN FT | 617 |
| | 2 | 2104.503 | 00315 | REMOVE CURB AND GUTTER | LIN FT | 518 |
| | 2 | 2104.504 | 00120 | REMOVE BITUMINOUS PAVEMENT | SQ YD | 113 |
| | 2 | 2104.518 | 00140 | REMOVE CONCRETE WALK | SQ FT | 1312 |
| | | 2105.607 | 00015 | COMMON EXCAVATION | CU YD | 24 |
| | 3 | 2211.509 | 00070 | AGGREGATE BASE CLASS 5 | TON | 52 |
| | 4 | 2232.504 | 00060 | MILL BITUMINOUS SURFACE (2.0") | SQ YD | 9487 |
| | 5 | 2232.604 | 00470 | MILL BITUMINOUS PAVEMENT (SPECIAL) | SQ YD | 784 |
| | | 2357.506 | 00010 | BITUMINOUS MATERIAL FOR TACK COAT | GALLON | 514 |
| | 6 | 2360.509 | 20100 | TYPE SP 12.5 BITUMINOUS MIXTURE FOR PATCHING | TON | 13 |
| | | 2360.509 | 24600 | TYPE SP 12.5 WEARING COURSE MIXTURE (4:F) | TON | 1091 |
| C | | 2360.509 | 24600 | TYPE SP 12.5 WEARING COURSE MIXTURE (4:F) | TON | 90 |
| D | 7 | 2504.602 | 00033 | ADJUST GATE VALVE | EACH | 5 |
| A,B | 8 | 2506.502 | 06000 | CASTING ASSEMBLY | EACH | 11 |
| | 10 | 2521.602 | 00030 | DRILL AND GROUT REINF BAR (EPOXY COATED) | EACH | 138 |
| | | 2521.618 | 00400 | CONCRETE CURB RAMP WALK | SQ FT | 1312 |
| | | 2531.503 | 02080 | CONCRETE CURB AND GUTTER DESIGN B418 | LIN FT | 518 |
| | | 2531.618 | 00010 | TRUNCATED DOMES | SQ FT | 376 |
| | 9 | 2550.602 | 10000 | LOOP DETECTOR DESIGN NMC | EACH | 3 |
| | | 2563.601 | 00001 | TRAFFIC CONTROL SUPERVISOR | LUMP SUM | 1 |
| | 11,12 | 2563.601 | 00010 | TRAFFIC CONTROL | LUMP SUM | 1 |
| | 13 | 2573.502 | 00110 | STORM DRAIN INLET PROTECTION | EACH | 2 |
| | | 2574.507 | 00100 | COMMON TOPSOIL BORROW | CU YD | 177 |
| | 14 | 2575.508 | 40003 | HYDRAULIC REINFORCED FIBER MATRIX | POUND | 1403 |
| | 15 | 2581.503 | 00010 | REMOVABLE PREFORMED PAVEMENT MARKING TAPE | LIN FT | 103 |
| | 17 | 2582.503 | 10204 | 4" BROKEN LINE PAINT | LIN FT | 514 |
| | 16 | 2582.503 | 36104 | 4" SOLID LINE MULTI-COMPONENT GROUND IN | LIN FT | 5626 |
| | 16 | 2582.503 | 36204 | 4" DOUBLE SOLID LINE MULTI-COMPONENT GROUND IN | LIN FT | 3235 |
| | 18 | 2582.518 | 08000 | CROSSWALK PREFORM THERMOPLASTIC | SQ FT | 126 |
| | 18 | 2582.603 | 79000 | PAVEMENT MARKING SPECIAL | LIN FT | 174 |

CONSTRUCTION NOTES

| | |
|----|--|
| 1 | REFERENCE DETAILS (SHEET 6-7) |
| 2 | REFERENCE DETAILS (PAGE 6) FOR REMOVAL DETAILS |
| 3 | GRAVEL USED AS BASE FOR NEW CONCRETE WALK AND CURB PATCHES |
| 4 | DETAIL MILLING AROUND MANHOLES, CATCH BASINS, GATE VALVES, AND ALONG CURB LINE IS INCIDENTAL TO THIS ITEM. |
| 5 | TO BE USED FOR MILLING STREET APPROACHES AND/OR DETAIL MILLING AREAS AS IDENTIFIED IN THE PLAN. DETAIL MILLING AROUND MANHOLES, CATCH BASINS, GATE VALVES, AND ALONG CURB LINE IS INCIDENTAL TO THIS ITEM. |
| 6 | ITEM FOR STREET APPROACHES. STREET APPROACHES SHALL BE PAVED AFTER MAINLINE, AND BEFORE FINAL STRIPING. SEE TAB C FOR TABULATION. |
| 7 | GATE VALVES TO BE ADJUSTED ONLY AS NECESSARY AS DETERMINED BY THE ENGINEER. |
| 8 | ITEM INCLUDES FULL REPLACEMENT OF CASTING ADJUSTMENT RINGS. SEE STORM TABULATIONS FOR RING HEIGHTS. INFISHIELD WRAP FOR MANHOLES INCIDENTAL. |
| 9 | LOOP REPLACEMENT REQUIRED ONLY IF DAMAGED DURING CONSTRUCTION OPERATIONS. EXISTING SIGNAL PLANS ARE INCLUDED AT THE END OF THIS PLAN. |
| 10 | ITEM TO BE USED FOR TIE INS FOR PED RAMPS |
| 11 | ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO, AND BE INSTALLED IN ACCORDANCE WITH, THE MOST CURRENT REVISION OF THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". "DO NOT PASS, PASS WITH CARE, NO CENTER STRIPE, AND STOP HERE ON RED SIGNS SHALL BE INPLACE WHENEVER PERMANENT PAVEMENT MARKINGS ARE NOT PRESENT. |
| 12 | DO NOT PASS, PASS WITH CARE AND NO CENTER STRIPE SIGNS MUST BE INPLACE DURING MILLING, RECLAIMING OR PAVING OPERATIONS. |
| 13 | ALL DRAINAGE STRUCTURES AFFECTED BY THIS PROJECT MUST HAVE INLET PROTECTION. |
| 14 | TYPE 3 FERTILIZER AND TYPE 25-121 SEED ARE INCIDENTAL TO THIS ITEM. SEE "BASIS OF PLANNED QUANTITIES" FOR APPLICATION RATES. |
| 15 | CENTERLINE AND LANE DESIGNATION SKIPS TO BE APPLIED AS SOON AS POSSIBLE ON MILLED SURFACE AND EACH NEW LIFT OF PAVEMENT; SKIPS MUST BE INPLACE BEFORE THE CONTRACTOR LEAVES FOR THE DAY. CONTRACTOR IS TO REMOVE PRIOR TO FINAL STRIPING. |
| 16 | FINAL STRIPING SHALL BE INSTALLED WITHIN 72 HOURS OF COMPLETION OF MAINLINE WEAR COURSE PAVING. CANNOT BE INSTALLED SOONER THAN 48 HOURS. |
| 17 | ITEM TO BE USED AS TEMPORARY CENTERLINE STRIPING ON MILLED SURFACE, INSTALLED THE SAME DAY AS MILLING OPERATION. |
| 18 | INCLUDES ALL THERMOPLASTIC STOP BARS, GORE AREA HATCHING, CROSSWALKS, LANE DESIGNATION ARROWS, AND PAVEMENT MESSAGES. |

BASIS OF PLANNED QUANTITIES

| | | |
|------|---|--------------------------------|
| 2357 | BITUMINOUS MATERIAL FOR TACK COAT | 0.05 GAL / SQ YD |
| 2211 | AGGREGATE BASE CLASS 5 | 1.8 TONS / CU YD |
| 2360 | ALL BITUMINOUS PAVEMENT | 115 LBS / SQ YD / IN THICKNESS |
| 2581 | REMOVABLE PREFORM PAVEMENT MARKING TAPE | 2' AT 50' INTERVALS |
| 2575 | SEED MIXTURE 25-121 | 61 LBS./ ACRE |
| 2574 | FERTILIZER TYPE 3 | 350 LBS./ ACRE |
| 2575 | HYDRAULIC REINFORCED FIBER MATRIX | 3900 LBS./ ACRE |

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT

MNDOT STANDARD PLATES

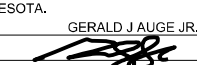
| PLATE NO. | DESCRIPTION |
|-----------|--|
| 4020J | MANHOLE OR CATCH BASIN (FOR USE WITH OR WITHOUT TRAFFIC LOADS) (2 SHEETS) |
| 4026A | CONCRETE ENCASED CONCRETE ADJUSTING RINGS |
| 4101D | RING CASTING FOR MANHOLE OR CATCH BASIN |
| 4110F | COVER CASTING FOR MANHOLE (FOR USE IN ALL TRAFFIC AREAS) - CASTING NO. 715 AND 716 |
| 4134A | CURB BOX CASTING FOR CATCH BASIN (FOR DESIGN B CURBS)- CASTING NO. 825 |
| 7038A | DETECTABLE WARNING SURFACE TRUNCATED DOMES |
| 7100H | CONCRETE CURB AND GUTTER (DESIGN B AND DESIGN V) |
| 7111J | INSTALLATION OF CATCH BASIN CASTINGS (CONCRETE CURB AND GUTTER) |
| 8000K | TEMPORARY CHANNELIZERS (3 SHEETS) |

| NO | DATE | BY | CKD | APPR | REVISION |
|----|------------|----|-----|------|------------|
| | 04/18/2023 | | | | 8:25:42 AM |

NAME: P:\22-01-00\CSAH_11_(Quince-Juniper)\Base\Proposed\CSAH11_SEQ.dgn

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: GERALD J AUGER JR.

SIGNATURE: 

DATE: 03-06-2023 LICENSE NO. 26511

DRAWN BY: DLD DATE: 12/01/2021

DESIGN BY: SPH DATE: 12/01/2021

CHECKED BY: CO DATE: 2/16/2022



**ANOKA COUNTY
HIGHWAY DEPT.**

COUNTY PROJECT 002-611-039

STATEMENT OF ESTIMATED QUANTITIES

Sheet 2 of 22 Sheets

MBALIC

| STORM DRAINAGE TAB | | | | | | (A) |
|--------------------|--------|---------|------------------|--------------------------------------|--------------------------|-------------------------------|
| NUMBER | TYPE | ACTION | NEW CASTING TYPE | FURNISH AND INSTALL CASTING ASSEMBLY | RING HEIGHT -INCIDENTAL- | NOTES |
| | | | | EACH | LIN FT | |
| 100 | CB | RE-RING | A | 1 | 0.2 | REPLACE WITH 18" RECT. TYPE A |
| 102 | CB | RE-RING | A | 1 | 0 | REPLACE WITH 18" RECT. TYPE A |
| 300 | MH SAN | RE-RING | SAN | 1 | 1.1 | WRAP WITH INFI-SHEILD |
| 301 | MH SAN | RE-RING | SAN | 1 | 1.1 | WRAP WITH INFI-SHEILD |
| 302 | MH SAN | RE-RING | SAN | 1 | 1.2 | WRAP WITH INFI-SHEILD |
| 303 | MH SAN | RE-RING | SAN | 1 | 0.9 | WRAP WITH INFI-SHEILD |
| 304 | MH SAN | RE-RING | SAN | 1 | 1.2 | WRAP WITH INFI-SHEILD |
| 305 | MH SAN | RE-RING | SAN | 1 | 0.9 | WRAP WITH INFI-SHEILD |
| 306 | MH SAN | RE-RING | SAN | 1 | 1.1 | WRAP WITH INFI-SHEILD |
| 307 | MH SAN | RE-RING | SAN | 1 | 1.1 | WRAP WITH INFI-SHEILD |
| 308 | MH SAN | RE-RING | SAN | 1 | 1.1 | WRAP WITH INFI-SHEILD |
| TOTALS: | | | | 11 | 9.9 | |

| BITUMINOUS STREET SUMMARY | | (C) |
|---------------------------|------------------------------|-------|
| LOCATION | BITUMINOUS | NOTES |
| | 2360 TYPE SP 12.5 WEAR (4,F) | |
| | TON | |
| QUINCE ST | 14 | [1] |
| OLIVE ST - S | 11 | [1] |
| OLIVE ST - N | 12 | [1] |
| SORTEBERG ST | 10 | [1] |
| KUMQUAT ST - S | 14 | [1] |
| KUMQUAT ST - N | 17 | [1] |
| JUNIPER ST | 11 | [1] |
| PROJECT TOTAL | 90 | |

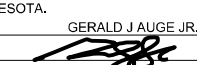
BITUMINOUS SUMMARY NOTES:
 [1] QUANTITY ESTIMATED FOR 1 LIFTS

| CASTING ASSEMBLIES SUMMARY | | | | | | (B) |
|--|-----------------------|------------------------|----------|---|--|----------|
| ASSEMBLY | RING OR FRAME CASTING | COVER OR GRATE CASTING | CURB BOX | DESCRIPTION | NOTES | QUANTITY |
| SAN | NEENAH R-1733 | NEENAH R-1733-5044 | | 301-CP LID WITH RUBBER GASKET ON BOTTOM | CASTING COVER STAMPED "SANITARY SEWER" | 9 |
| A | | | YES | NEENAH R-3030-L | SEE DETAILS PAGE 7 | 2 |
| ALL CASTING HEIGHTS ARE TO BE VERIFIED IN THE FIELD ALL MANHOLE COVERS SHOULD BE LABELED AS STORM OR SANITARY NEW CASTINGS TO BE INSTALLED AFTER ASPHALT MILLING IS COMPLETED MANHOLE CASTINGS TO BE RECESSED 1/4" FROM TOP OF FINISHED MAT | | | | | | |

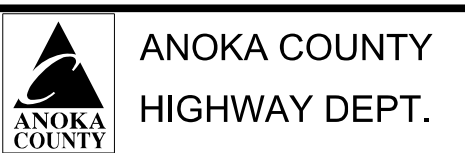
| GATE VALVE TAB | | | | (D) |
|---|----------|----------|--------|-----|
| NUMBER | STATION | OFFSET | ADJUST | |
| 500 | 12+10.00 | 14.5' RT | 1 | |
| 501 | 12+09.50 | 22.7' RT | 1 | |
| 504 | 19+21.10 | 24.5' RT | 1 | |
| 505 | 22+69.50 | 5.3' RT | 1 | |
| 507 | 31+80.60 | 17.6' RT | 1 | |
| TOTAL | | | 5 | |
| GATE VALVES TO BE ADJUSTED ONLY AS NECESSARY AS DETERMINED BY THE ENGINEER. | | | | |

| NO | DATE | BY | CKD | APPR | REVISION |
|----|------------|----|-----|------|------------|
| | 04/18/2023 | | | | 8:25:44 AM |

NAME: P:\22-01-00\CSAH_11_(Quince-Juniper)\Base\Proposed\CSAH11_SEQ.dgn

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: GERALD J AUGER JR.
 SIGNATURE: 
 DATE: 03-06-2023 LICENSE NO. 26511

DRAWN BY: DLD DATE: 12/01/2021
 DESIGN BY: SPH DATE: 12/01/2021
 CHECKED BY: CO DATE: 2/16/2022



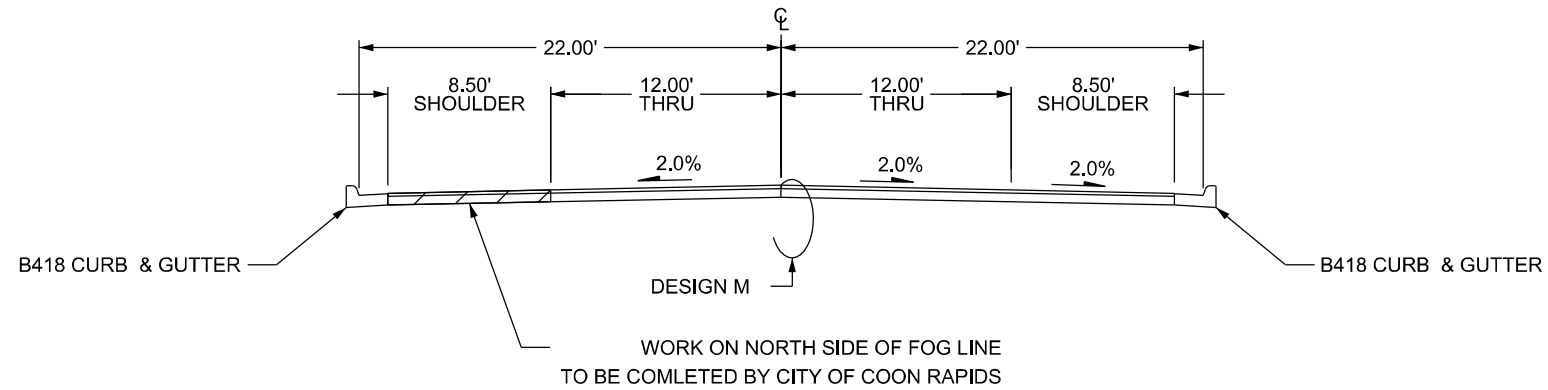
COUNTY PROJECT 002-611-039

TABULATIONS
 Sheet 3 of 22 Sheets

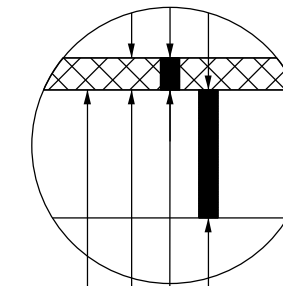
MBA/10

CSAH 11
(EXISTING/PROPOSED) SECTION

11+80.00 - 35+55.00



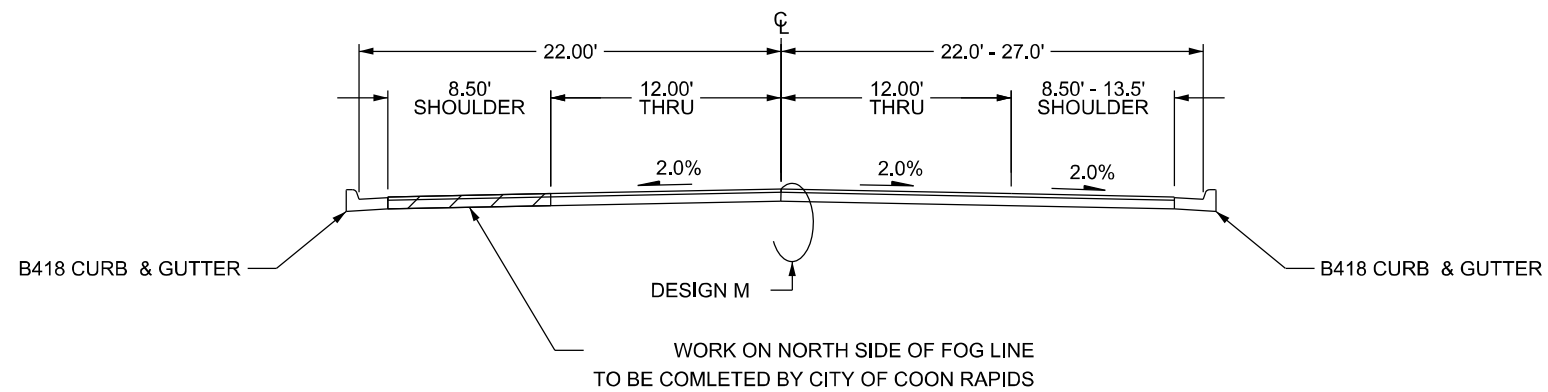
DESIGN M
MILL SECTION



BIT MATERIAL FOR TACK MN DOT SPEC. 2357
2.0" MILL BITUMINOUS
2.0" BITUMINOUS WEAR(SPWEB440F)
REMAINING BITUMINOUS


CSAH 11
(EXISTING/PROPOSED) SECTION

35+55.00 - 37+50.00



| NO | DATE | BY | CKD | APPR | REVISION | TIME |
|----|------------|----|-----|------|----------|------------|
| | 04/18/2023 | | | | | 8:25:47 AM |

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SIGNATURE: 
DATE: 03-06-2023 LICENSE NO. 26511

DRAWN BY DLD DATE 12/01/2021
DESIGN BY SPH DATE 12/01/2021
CHECKED BY CO DATE 2/16/2022



ANOKA COUNTY
HIGHWAY DEPT.

COUNTY PROJECT 002-611-039

TYPICAL SECTIONS

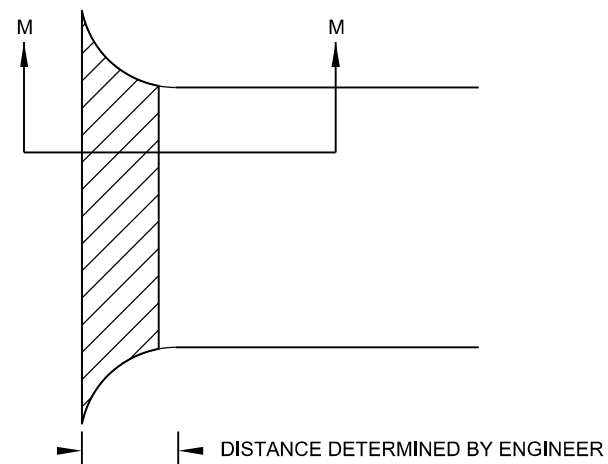
Sheet 4 of 22 Sheets

MBA/10

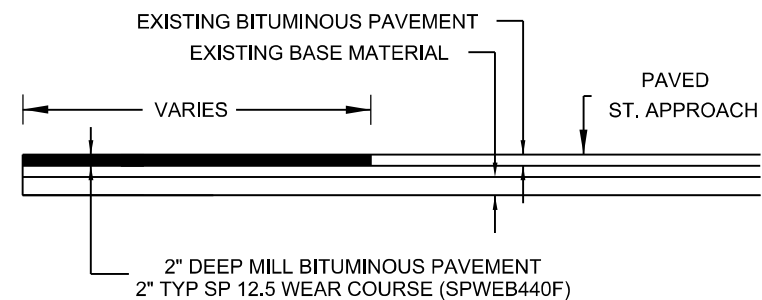
STREET APPROACH DETAIL (MILL & OVERLAY)

BITUMINOUS STREET

PLAN VIEW




SECTION M - M



| NO | DATE | BY | CKD | APPR | REVISION | 04/18/2023 | 8:25:48 AM |
|---|------|----|-----|------|----------|------------|------------|
| NAME: P:\22-01-00\CSAH_11_(Quince-Juniper)\Base\Proposed\CSAH11_DETAILS.dgn | | | | | | | |

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PRINT NAME: GERALD J AUGER JR.

SIGNATURE: 

DATE: 03-06-2023 LICENSE NO. 26511

DRAWN BY DLD DATE 12/01/2021

DESIGN BY SPH DATE 12/01/2021

CHECKED BY CO DATE 2/16/2022



**ANOKA COUNTY
HIGHWAY DEPT.**

COUNTY PROJECT 002-611-039

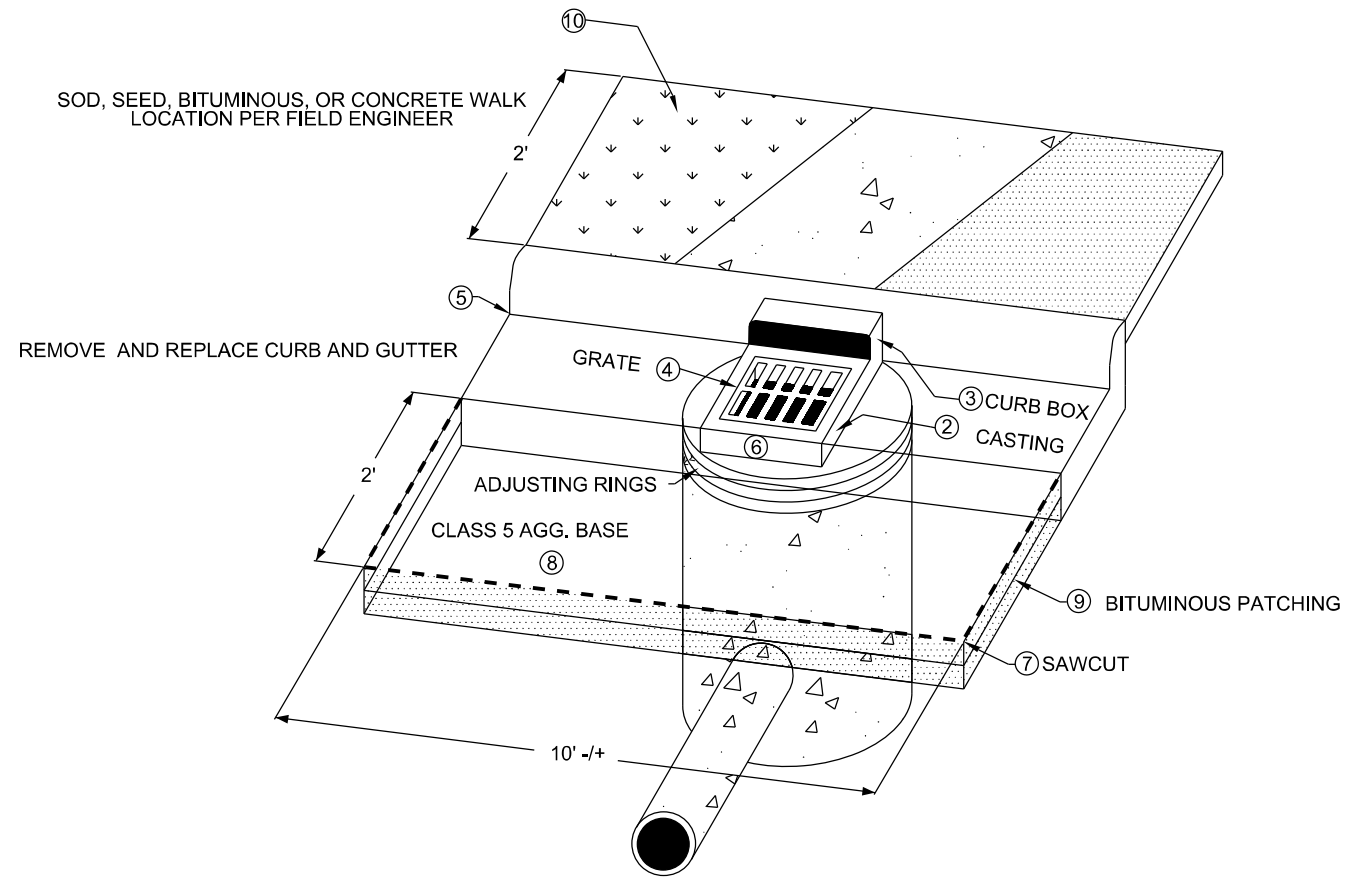
DETAILS

Sheet 5 of 22 Sheets

MBA/10

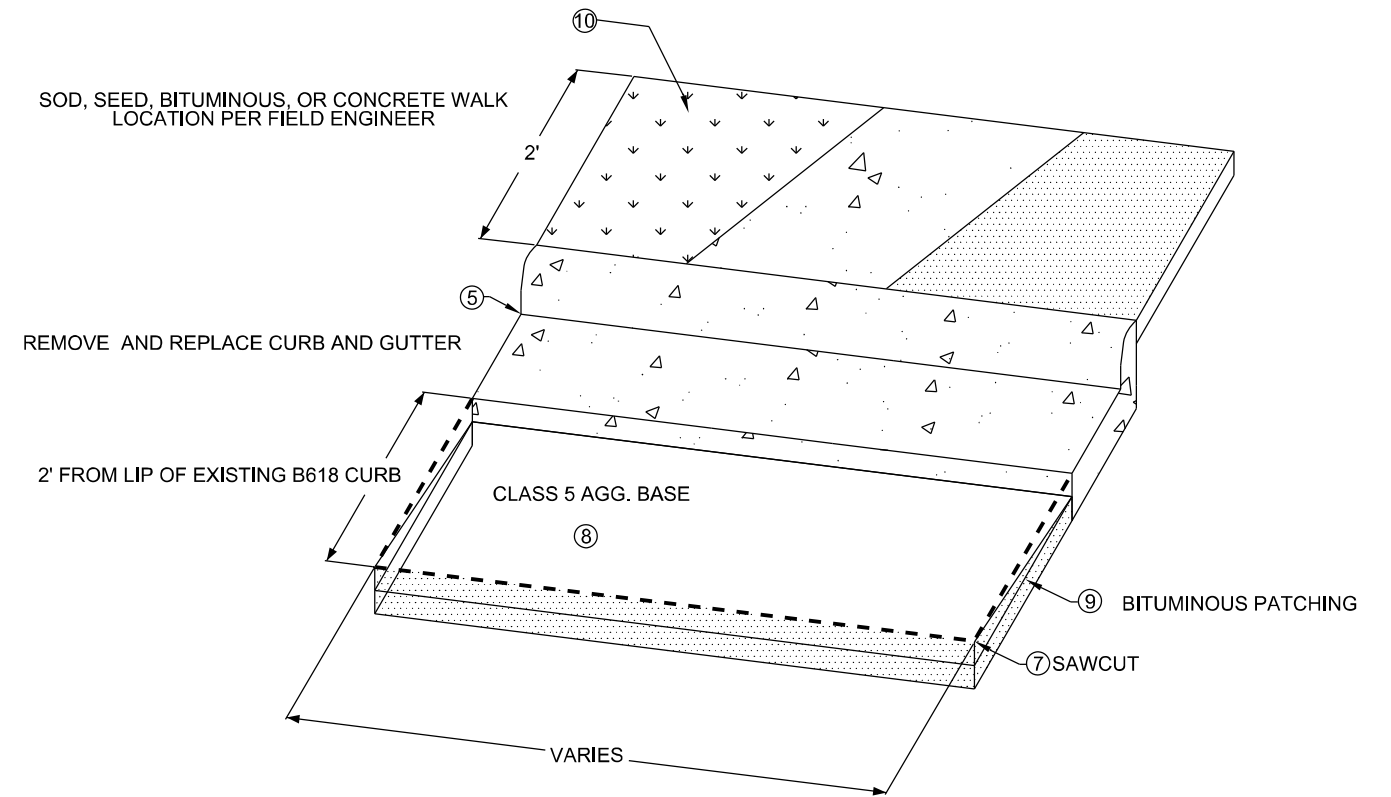
CATCH BASIN DETAIL

SEE STRUCTURE TAB FOR LOCATION
(PAGE 3)



NEW CURB DETAIL

SEE PLAN FOR LOCATION



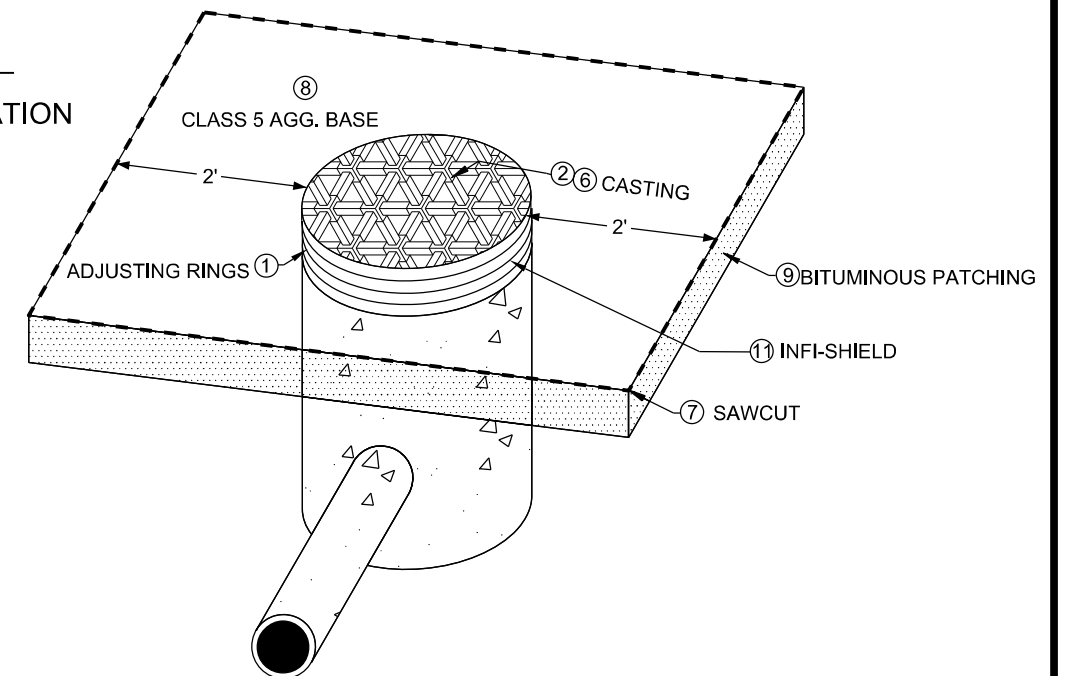
NOTES

FOR TRAFFIC CONTROL AT CATCH BASIN AND MANHOLE REPAIRS REFER TO THE MINNESOTA MANUAL ON TEMPORARY TRAFFIC CONTROL LAYOUTS FIELD MANUAL.

- ① CONCRETE ENCASED CONCRETE ADJUSTING RINGS STANDARD PLATE 4026A
- ② RING AND FRAME CASTING; REFERENCE CASTING ASSEMBLIES SUMMARY CHART FOR CASTING TYPE
- ③ CURB BOX MATCHES CASTING REFERENCE CHART FOR CASTING TYPE
- ④ GRATE CASTING; REFERENCE CASTING ASSEMBLIES SUMMARY CHART FOR CASTING TYPE
- ⑤ CONCRETE CURB AND GUTTER DESIGN B STANDARD PLATE 7100H, FORM CURB TO FIT CASTING
- ⑥ INSTALLATION OF CATCH BASIN OR MANHOLE CASTINGS; REFERENCE STANDARD PLATE PER TYPE OF CASTING
- ⑦ SAWCUT BITUMINOUS PAVEMENT / CONCRETE CURB FULL DEPTH.
- ⑧ ADD AND COMPACT AGGREGATE BASE CLASS 7 AROUND REPAIRED STRUCTURE. ITEM INCIDENTAL TO ENTIRE STRUCTURE REPAIR
- ⑨ REMOVE VARIABLE DEPTH BITUMINOUS, PATCH WITH 2, 3" LIFTS OF BITUMINOUS, TOP LIFT SHOULD TAPER TO BOTTOM LIFT AT CURB.
- ⑩ REPLACE DISTURBED AREA BEHIND CATCH BASIN WITH EITHER SOD (RESIDENTIAL AREAS), EROSION CONTROL BLANKET, BITUMINOUS, OR CONCRETE
- ⑪ WRAP STORM SEWER MANHOLE AND SANITARY SEWER MANHOLE CONCRETE ADJUSTING RINGS & CASTINGS WITH INFI-SHIELD SEAL WRAP OR APPROVED EQUIVALENT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. INFI-SHIELD WRAP INCIDENTAL TO ADJUSTMENT.

MANHOLE DETAIL

SEE STRUCTURE TAB FOR LOCATION
(PAGE 3)



| NO | DATE | BY | CKD | APPR | REVISION | | |
|----|------------|----|-----|------|----------|------------|--|
| | 04/18/2023 | | | | | 8:25:48 AM | |

NAME: P:\22-01-00\CSAH_11_(Quince-Juniper)\Base\Proposed\CSAH11_DETAILS.dgn

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PRINT NAME: GERALD J AUGER JR.

SIGNATURE:

DATE: 03-06-2023 LICENSE NO. 26511

DRAWN BY: DLD DATE: 12/01/2021
 DESIGN BY: SPH DATE: 12/01/2021
 CHECKED BY: CO DATE: 2/16/2022



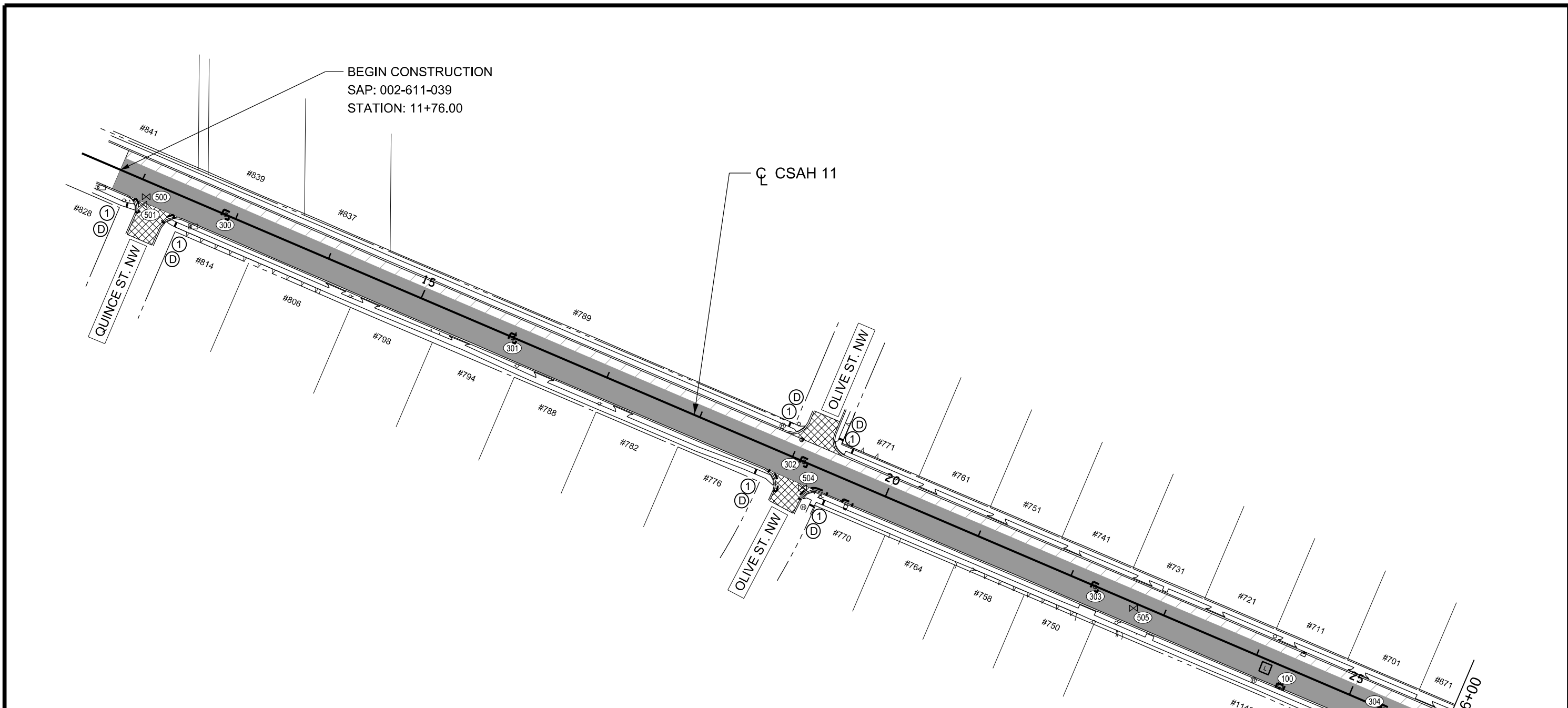
ANOKA COUNTY
HIGHWAY DEPT.

COUNTY PROJECT 002-611-039

DETAILS

Sheet 6 of 22 Sheets

MBA/10

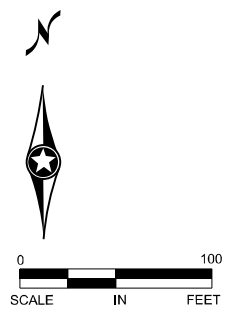


BEGIN CONSTRUCTION
SAP: 002-611-039
STATION: 11+76.00

☐ CSAH 11

MATCH LINE 26+00

| LEGEND | | | |
|--------|--|-------|--|
| Ⓚ | TRUNCATED DOMES | ⊗ | ADJUST GATE VALVE |
| ① | REMOVE 6" WALK REPLACE CURB RAMP WALK | ■ | MAINLINE (MILL) |
| Ⓛ | APRX. LOOP LOCATION | ▨ | MILL SPECIAL |
| - - - | SAWCUT | ▧ | WORK TO BE COMPLETED BY CITY OF COON RAPIDS |
| — — — | RETAINING WALL | — — — | R / W |



| NO | DATE | BY | CKD | APPR | REVISION | 04/18/2023 | 9:18:56 AM |
|--|------|----|-----|------|----------|------------|------------|
| NAME: P:\22-01-00\CSAH_11_(Quince-Juniper)\Base\Proposed\CSAH11_CP.dgn | | | | | | | |

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: GERALD J AUGER JR.
 SIGNATURE: *[Signature]*
 DATE: 03-06-2023 LICENSE NO. 26511

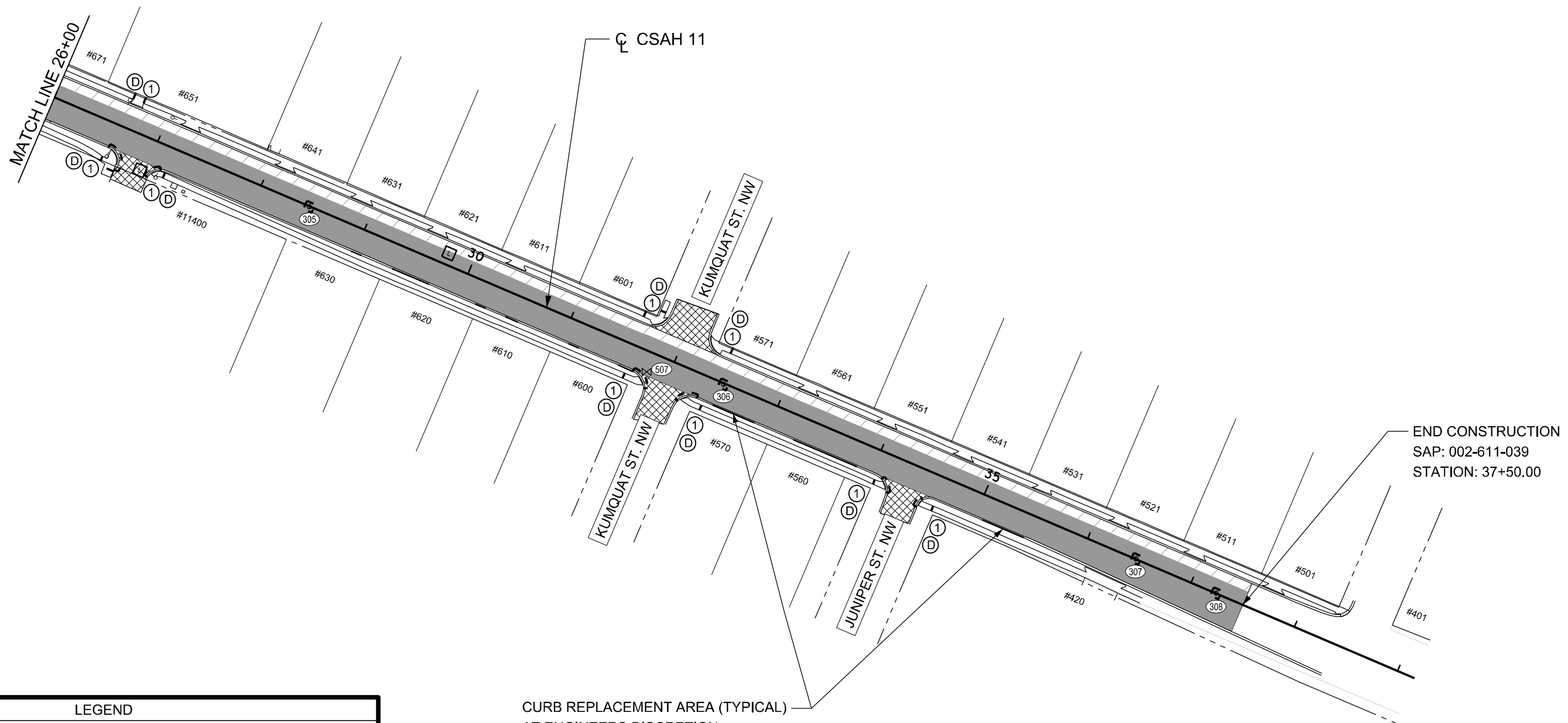
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 DESIGN BY: SPH DATE: 12/01/2021
 CHECKED BY: CO DATE: 2/16/2022

**ANOKA COUNTY
HIGHWAY DEPT.**

COUNTY PROJECT 002-611-039

CONSTRUCTION PLAN
 STA 11+80.00 TO 26+00.00
 Sheet 8 of 22 Sheets

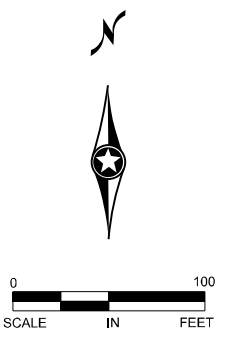
MBA/10



END CONSTRUCTION
SAP: 002-611-039
STATION: 37+50.00

CURB REPLACEMENT AREA (TYPICAL)
AT ENGINEERS DISCRETION

| LEGEND | | | |
|--------|--|--|--|
| | TRUNCATED DOMES | | ADJUST GATE VALVE |
| | REMOVE 6" WALK REPLACE CURB RAMP WALK | | MAINLINE (MILL) |
| | APRX. LOOP LOCATION | | MILL SPECIAL |
| | SAWCUT | | WORK TO BE COMPLETED BY CITY OF COON RAPIDS |
| | RETAINING WALL | | R / W |



| NO | DATE | BY | CKD | APPR | REVISION | |
|----|------------|----|-----|------|----------|------------|
| | 04/18/2023 | | | | | 9:19:09 AM |

NAME: P:\22-01-00\CSAH_11_(Quince-Juniper)\Base\Proposed\CSAH11_CP2.dgn

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: GERALD J AUGER JR.
SIGNATURE:

DATE: 03-06-2023 LICENSE NO. 26511

DRAWN BY: DLD DATE: 12/01/2021
DESIGN BY: SPH DATE: 12/01/2021
CHECKED BY: CO DATE: 2/16/2022

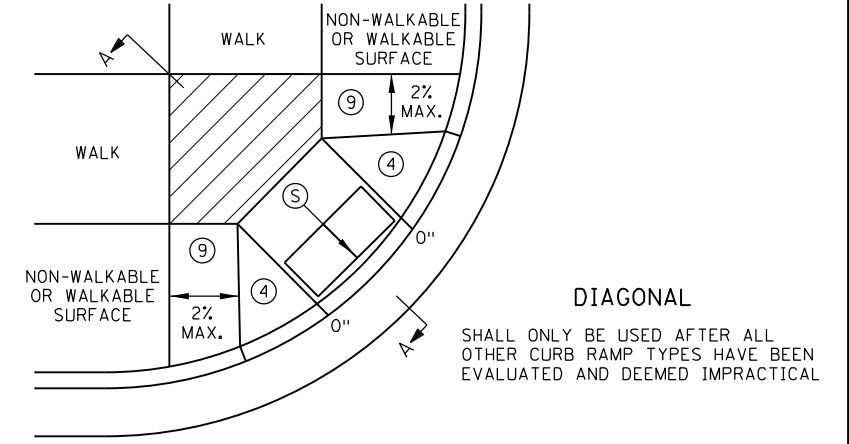
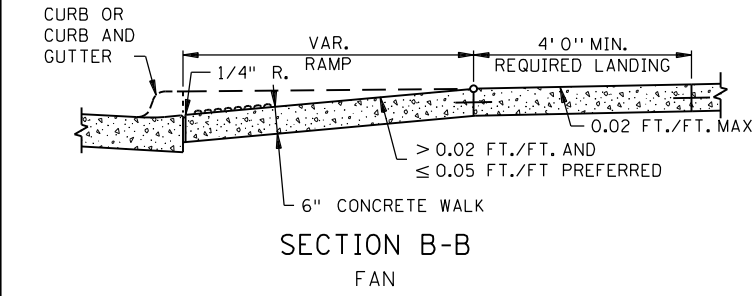
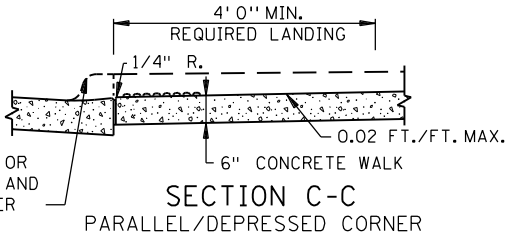
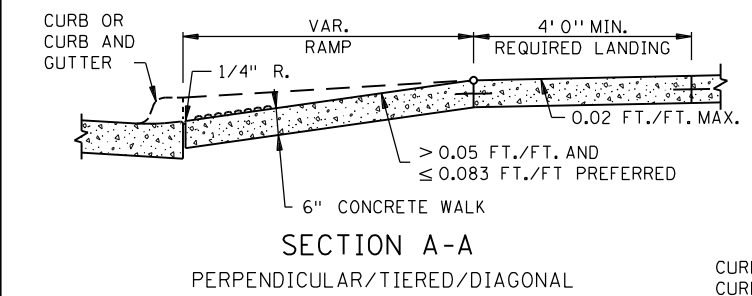
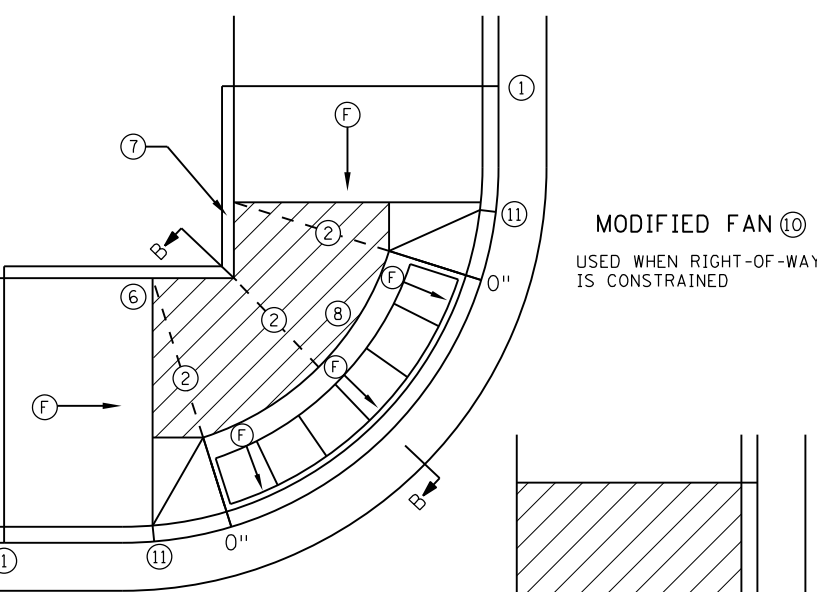
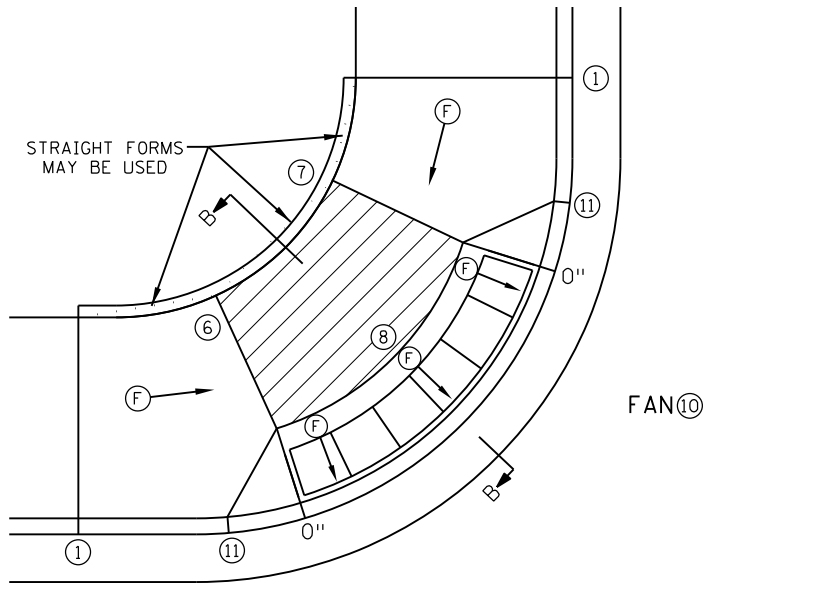
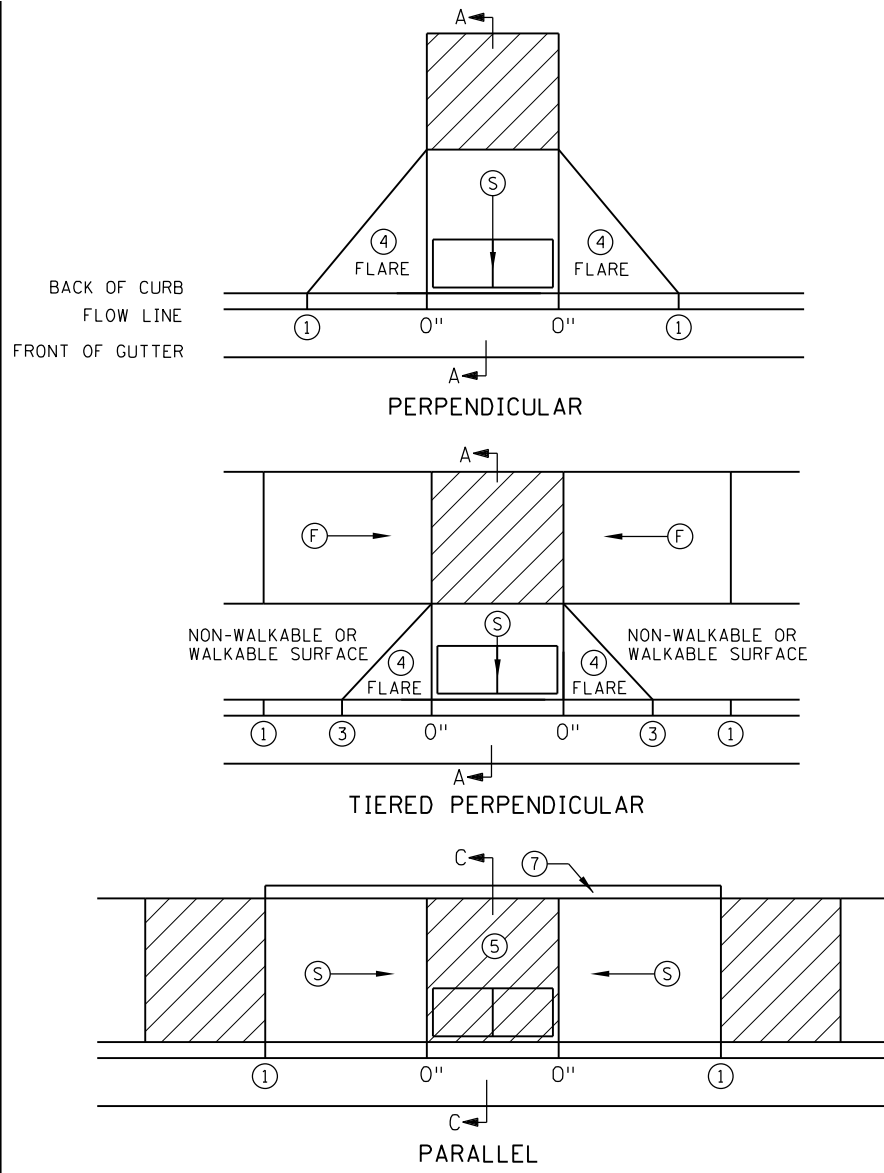
**ANOKA COUNTY
HIGHWAY DEPT.**

COUNTY PROJECT 002-611-039

CONSTRUCTION PLAN
STA 26+00.00 TO 37+50.00
Sheet 9 of 22 Sheets

PLOTTED/REVISED: 04/18/2023

DISTRICT #: PLOT NAME: \$\$\$\PLOT\NAME\$\$\$
 PATH & FILENAME: P:\122-01-00\CSAH_11_10\Quince-Juniper\Bases\Proposed\PED RAMP DETAILS.dgn



NOTES:

- LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE (PAR) CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE GREATER THAN 2%.
- INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15' FROM THE BACK OF CURB, WITH 6' FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE, ONLY APPLICABLE WHEN THE INITIAL RAMP RUNNING SLOPE IS OVER 5.0%.
- SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE WHEN THE LONGITUDINAL RUNNING SLOPE IS GREATER THAN 5.0%.
- CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS WITHIN THE PAR. 1/4" DEEP VISUAL JOINTS SHALL BE USED AT THE TOPS OF CONCRETE FLARES ADJACENT TO WALKABLE SURFACES.
- ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL, THUS BOTH SIDES OF A SLOPED WALKING SURFACE MUST BE EQUAL LENGTH. (EXCEPT AS STATED IN 6 BELOW.)
- TO ENSURE RAMPS AND LANDINGS ARE PROPERLY CONSTRUCTED, ALL INITIAL LANDINGS AT A TOP OF A RAMPED SURFACE (RUNNING SLOPE GREATER THAN 2%) SHALL BE FORMED AND PLACED SEPARATELY IN AN INDEPENDENT CONCRETE POUR. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 6 OF 6 FOR ALL SEPARATELY POURED INITIAL LANDINGS.
- WHEN SIDEWALK IS AT BACK OF CURB, TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE. MAINTAIN POSITIVE BOULEVARD DRAINAGE TO TOP OF CURB.
- ALL RAMP TYPES SHOULD HAVE A MINIMUM 3' LONG RAMP LENGTH.
- 4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MIN. OF 24" IN THE PATH OF TRAVEL. DETECTABLE WARNING TO COVER THE ENTIRE PAR WIDTH OF SHARED-USE PATHS AND THE ENTIRE PAR WIDTH OF THE WALK WITH THE EXCEPTION OF 3" MAXIMUM ON EACH OUTSIDE EDGE WHICH ENSURES THE DETECTABLE WARNINGS ARE ENCASED IN CONCRETE WHEN ADJACENT TO TURF. WHEN ADJACENT TO CONCRETE FLARES 0" - 3" OFFSET IS ALLOWED.
- WHEN DESIGNING OR ORDERING RECTANGULAR DETECTABLE WARNING SURFACES SHOULD BE 6" LESS THAN THE INCOMING PAR. ARC LENGTH OF THE RADIAL DETECTABLE WARNINGS SHOULD NOT BE GREATER THAN 20 FEET.
- RECTANGULAR DETECTABLE WARNINGS SHALL BE SETBACK 3" FROM THE BACK OF CURB. RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURB.

- 1 MATCH FULL HEIGHT CURB.
- 2 4' MINIMUM DEPTH LANDING REQUIRED ACROSS TOP OF RAMP.
- 3 3" HIGH CURB WHEN USING A 3' LONG RAMP, 4" HIGH CURB WHEN USING A 4' LONG RAMP.
- 4 SEE SHEET 4 OF 6, TYPICAL SIDE TREATMENT OPTIONS, FOR DETAILS ON FLARES AND RETURNED CURBS.
- 5 DETECTABLE WARNINGS MAY BE PART OF THE 4' X 4' MIN. LANDING AREA IF IT IS NOT FEASIBLE TO CONSTRUCT THE LANDING OUTSIDE OF THE DETECTABLE WARNING AREA.
- 6 THE GRADE BREAK SHALL BE PERPENDICULAR TO THE BACK OF WALK. THIS WILL ENSURE THAT THE GRADE BREAK IS PERPENDICULAR TO THE DIRECTION OF TRAVEL. (TYPICAL FOR ALL)
- 7 WHEN ADJACENT TO GRASS, GRADING SHALL ALWAYS BE USED WHEN FEASIBLE. V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS. WHEN ADJACENT TO PARKING LOTS, CONCRETE OR BITUMINOUS TAPERS LESS THAN 5% RUNNING SLOPE SHOULD BE USED OVER V CURB TO REDUCE TRIPPING HAZARDS AND FACILITATE SNOW & ICE REMOVAL.
- 8 A 7' MIN TOP RADIUS GRADE BREAK IS REQUIRED TO BE CONSTRUCTIBLE.
- 9 PAVE FULL WALK WIDTH.
- 10 "S" SLOPES ON FANS SHALL ONLY BE USED WHEN ALL OTHER FEASIBLE OPTIONS HAVE BEEN EVALUATED AND DEEMED IMPRACTICAL.
- 11 INTERMEDIATE CURB HEIGHTS TAPER SHALL RISE AT 8-10% TO A MINIMUM 3" CURB HEIGHT. REDUCE INTERMEDIATE CURB HEIGHT TO 2+ INCHES IF NECESSARY TO MATCH ADJACENT BOULEVARD OR SIDEWALK GRADES.

| LEGEND | |
|--------|---|
| | INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%. |
| | INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%. |
| | LANDING AREA - 4' X 4' MIN. (5' X 5' MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PARS. |
| | X" CURB HEIGHT |

REVISION:
 APPROVED: 11-04-2021

 JEFF PERKINS
 OPERATIONS DIVISION

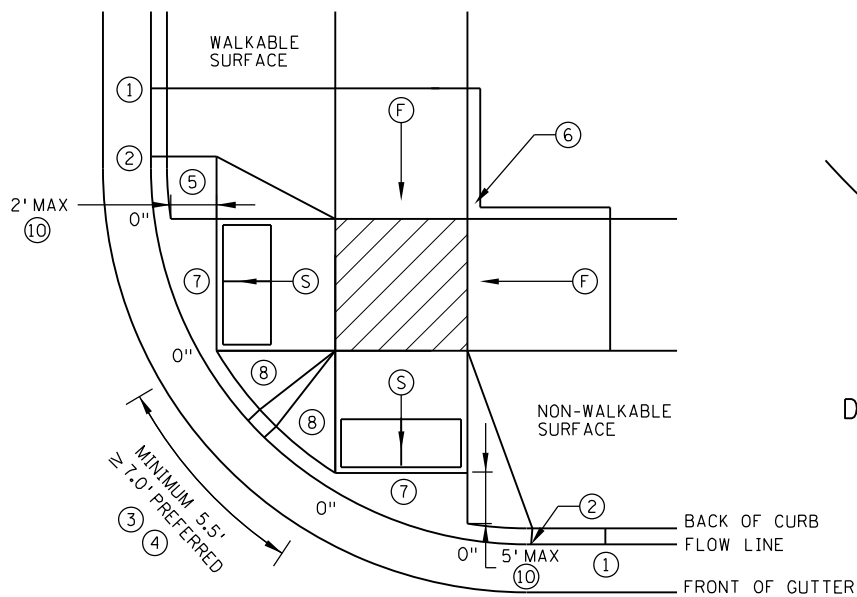
MINNESOTA
 DEPARTMENT OF TRANSPORTATION
 STANDARD PLAN 5-297.250
 1 OF 6
 APPROVED: 11-04-2021
 REVISED:

 THOMAS STYRBICKI
 STATE DESIGN ENGINEER

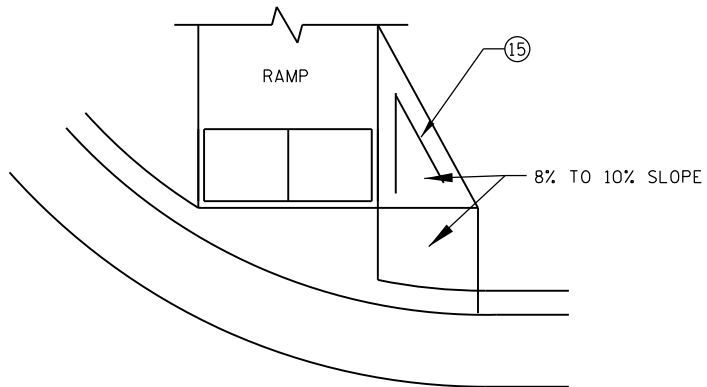
PEDESTRIAN CURB RAMP DETAILS
 STATE AID PROJ. NO. 002-611-039
 SHEET NO. 10 OF 22 SHEETS

PLOTTED/REVISED: 04/18/2023

DISTRICT #: PLOT NAME: \$\$\$@PLOT\$NAME\$\$\$ PATH & FILENAME: P:\22-01-00\CSAH_11_Quince-Juniper\Bases\Proposed\PED RAMP DETAILS.dgn

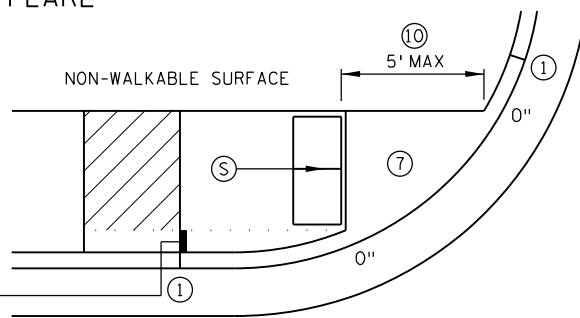


COMBINED DIRECTIONAL

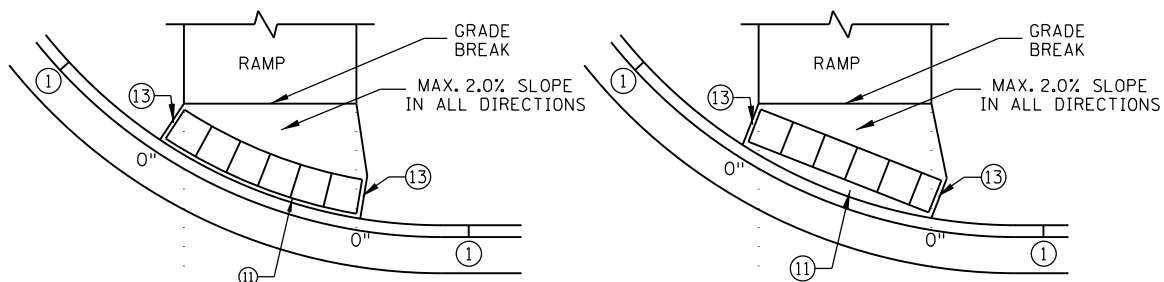


DIRECTIONAL RAMP WALKABLE FLARE

IF NON-CONCRETE BLVD. IS CONSTRUCTED AND IS LESS THAN 2' IN WIDTH AT TOP OF CURB TRANSITION, PAVE CONCRETE RAMP WIDTH TO ADJACENT BACK OF CURB.

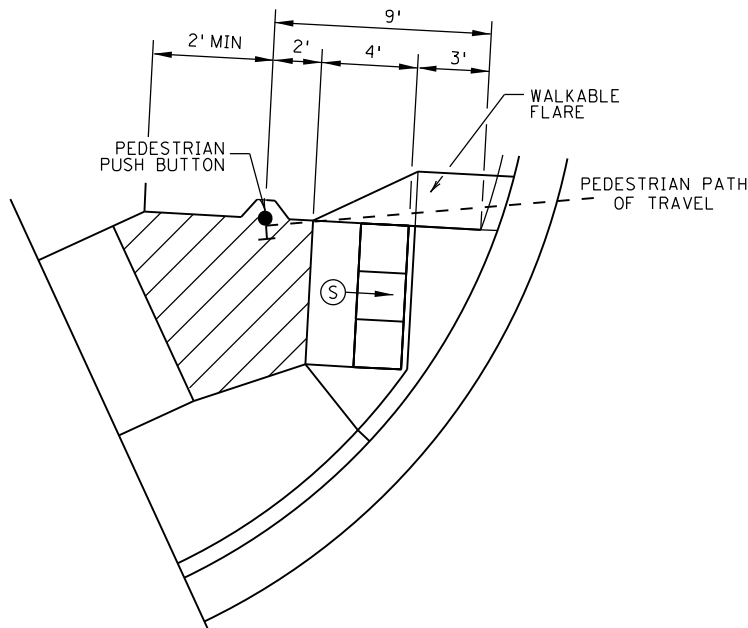


STANDARD ONE-WAY DIRECTIONAL ⑩



DETECTABLE WARNING PLACEMENT WHEN SETBACK CRITERIA IS EXCEEDED ⑫

ONE-WAY DIRECTIONAL WITH DETECTABLE WARNING AT BACK OF CURB



SEMI-DIRECTIONAL RAMP ③④⑨

3' DOME SETBACK, 4' LONG RAMP AND PUSH BUTTON 9' FROM THE BACK OF CURB
 PRIMARILY USED FOR APS APPLICATIONS WHERE THE PAR DOES NOT CONTINUE PAST THE PUSH BUTTON (DEAD-END SIDEWALK)

NOTES:

LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE (PAR) CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE.

INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15' FROM THE BACK OF CURB, WITH 6' FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE, ONLY APPLICABLE WHEN THE INITIAL RAMP RUNNING SLOPE IS OVER 5.0%.

SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE WHEN THE LONGITUDINAL SLOPE IS GREATER THAN 5.0%.

CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS WITHIN THE PAR. 1/4" DEEP VISUAL JOINTS SHALL BE USED AT THE TOP GRADE BREAK OF CONCRETE FLARES ADJACENT TO WALKABLE SURFACES.

ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL. THUS BOTH SIDES OF A SLOPED WALKING SURFACE MUST BE EQUAL LENGTH.

TO ENSURE INITIAL RAMPS AND INITIAL LANDINGS ARE PROPERLY CONSTRUCTED, LANDINGS SHALL BE CAST SEPARATELY, FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 6 AND THE ADA SPECIAL PROVISION (PROSECUTION OF WORK).

TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.

WHEN THE BOULEVARD IS 4' WIDE OR LESS, THE TOP OF CURB TAPER SHALL MATCH THE RAMP SLOPES TO REDUCE NEGATIVE BOULEVARD SLOPES FROM THE TOP BACK OF CURB TO THE PAR.

ALL RAMP TYPES SHOULD HAVE A MINIMUM 3' LONG RAMP LENGTH.

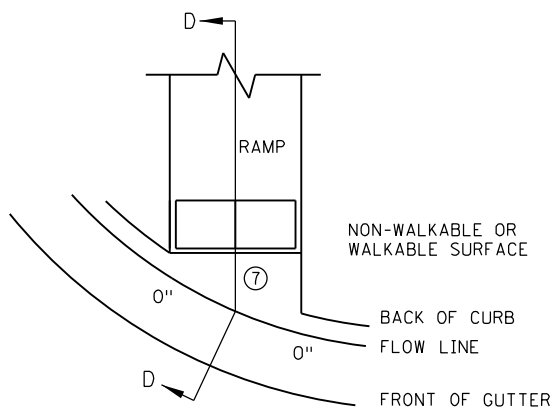
4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MIN. OF 24" IN THE PATH OF TRAVEL. DETECTABLE WARNING TO COVER THE ENTIRE PAR WIDTH OF SHARED-USE PATHS AND THE ENTIRE PAR WIDTH OF THE WALK WITH THE EXCEPTION OF 3" MAXIMUM ON EACH OUTSIDE EDGE WHICH ENSURES THE DETECTABLE WARNINGS ARE ENCASED IN CONCRETE WHEN ADJACENT TO TURF. WHEN ADJACENT TO CONCRETE FLARES 0" - 3" OFFSET IS ALLOWED.

WHEN DESIGNING OR ORDERING RECTANGULAR DETECTABLE WARNING SURFACES SHOULD BE 6" LESS THAN THE INCOMING PAR. ARC LENGTH OF THE RADIAL DETECTABLE WARNINGS SHOULD NOT BE GREATER THAN 20 FEET.

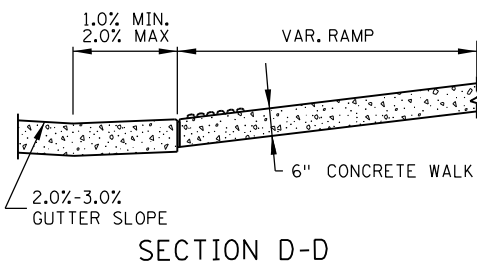
RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURB. SEE NOTES ⑩ & ⑪ FOR INFORMATION REGARDING RECTANGULAR DETECTABLE WARNING PLACEMENT.

- ① MATCH FULL CURB HEIGHT.
- ② 3" HIGH CURB WHEN USING A 3' LONG RAMP
4" HIGH CURB WHEN USING A 4' LONG RAMP.
- ③ 3" MINIMUM CURB HEIGHT (5.5' MIN. DISTANCE REQUIRED BETWEEN DOMES)
4" PREFERRED (7' MIN. DISTANCE REQUIRED BETWEEN DOMES).
- ④ THE "BUMP" IN BETWEEN THE RAMPS SHOULD NOT BE IN THE PATH OF TRAVEL FOR COMBINED DIRECTIONAL RAMPS. IF THIS OCCURS MODIFY THE RAMP LOCATION OR SWITCH RAMP TO A FAN/DEPRESSED CORNER.
- ⑤ WHEN USING CONCRETE PAVED FLARES ON THE OUTSIDE OF DIRECTIONAL RAMPS, AND ADJACENT TO A WALKABLE SURFACE, DIRECTIONAL RAMP FLARES SHALL BE USED. SEE THE DETAIL ON THIS SHEET.
- ⑥ GRADING SHALL ALWAYS BE USED WHEN FEASIBLE. V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS. WHEN ADJACENT TO PARKING LOTS, CONCRETE OR BITUMINOUS TAPERS SHOULD BE USED OVER V CURB TO REDUCE TRIPPING HAZARDS AND FACILITATE SNOW & ICE REMOVAL.
- ⑦ MAX. 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK AND DRAIN TO FLOW LINE. SHALL BE CONSTRUCTED INTEGRAL WITH CURB AND GUTTER.
- ⑧ 8% TO 10% WALKABLE FLARE.
- ⑨ PLACE DOMES AT THE BACK OF CURB WHEN ALLOWABLE SETBACK CRITERIA IS EXCEEDED.
- ⑩ FRONT EDGE OF DETECTABLE WARNING SHALL BE SET BACK 2' MAXIMUM WHEN ADJACENT TO WALKABLE SURFACE, AND 5' MAXIMUM WHEN ADJACENT TO NON-WALKABLE SURFACE WITH ONE CORNER SET 3" FROM BACK OF CURB. A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP WITHOUT RAISED OBSTACLES THAT COULD MISTAKENLY BE TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED.
- ⑪ RECTANGULAR DETECTABLE WARNINGS MAY BE SETBACK UP TO 9" FROM THE BACK OF CURB WITH CORNERS SET 3" FROM BACK OF CURB. IF 9" SETBACK IS EXCEEDED USE RADIAL DETECTABLE WARNINGS.
- ⑫ FOR DIRECTIONAL RAMPS WITH THE DETECTABLE WARNINGS PLACED AT THE BACK OF CURB, THE DETECTABLE WARNINGS SHALL COVER THE ENTIRE WIDTH OF THE WALK/PATH. THIS ENSURES A DETECTABLE EDGE AND HELPS ELIMINATE THE CURB TAPER OBSTRUCTING THE PATH OF PEDESTRIAN TRAVEL.
- ⑬ THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE BACK OF CURB. MAINTAIN 3" BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.
- ⑭ TO BE USED FOR ALL DIRECTIONAL RAMPS, EXCEPT WHERE DOMES ARE PLACED ALONG THE BACK OF CURB.
- ⑮ PLACE 2 NO. 4 BARS 4 INCHES FROM SIDE OF FORMS WITH A MINIMUM 2 INCHES OF CONCRETE COVER ALONG EACH SIDE OF FLARE (INCIDENTAL).

| LEGEND | |
|---|---|
| THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED. | |
| S | INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%. |
| F | INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%. |
| [Hatched Box] | LANDING AREA - 4' X 4' MIN. (5' X 5' MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PARS. |
| X" | CURB HEIGHT |



CURB FOR DIRECTIONAL RAMPS ⑭



SECTION D-D

REVISION:

APPROVED: 11-04-2021

Jeff J. Pel
 JEFFREY PERKINS
 OPERATIONS DIVISION

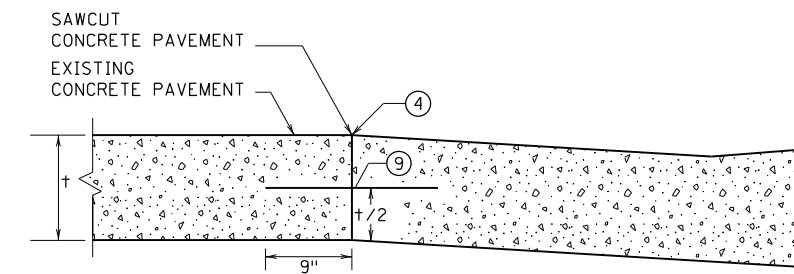
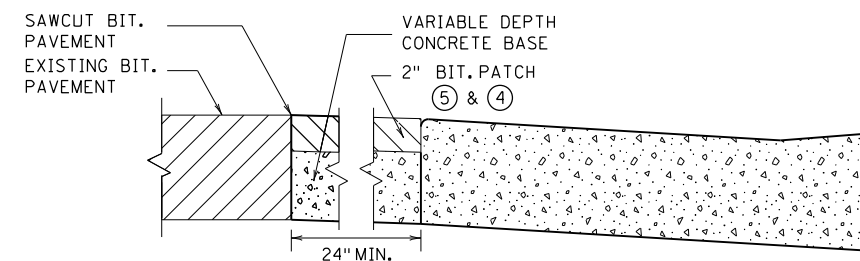
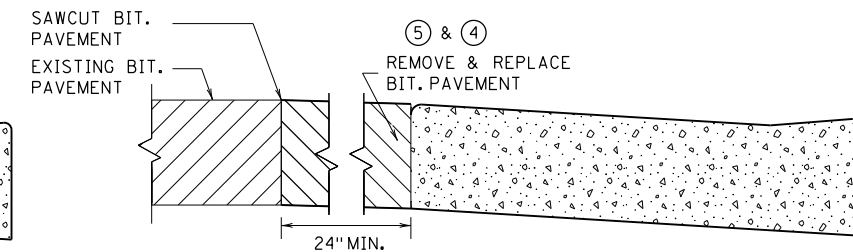
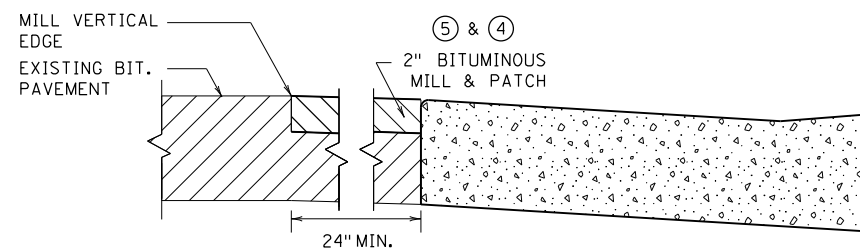
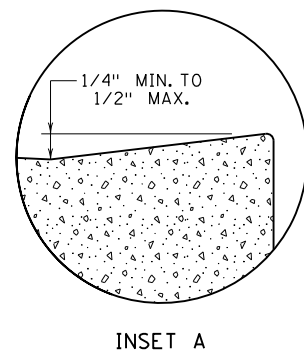
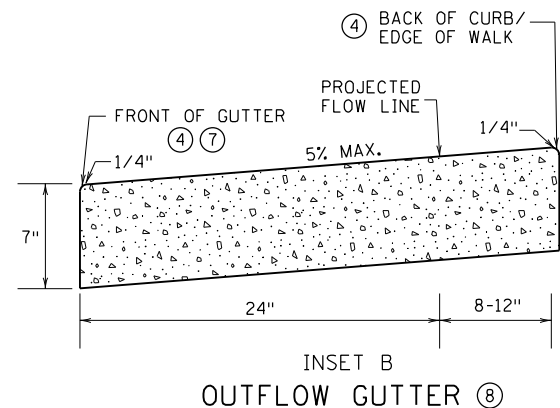
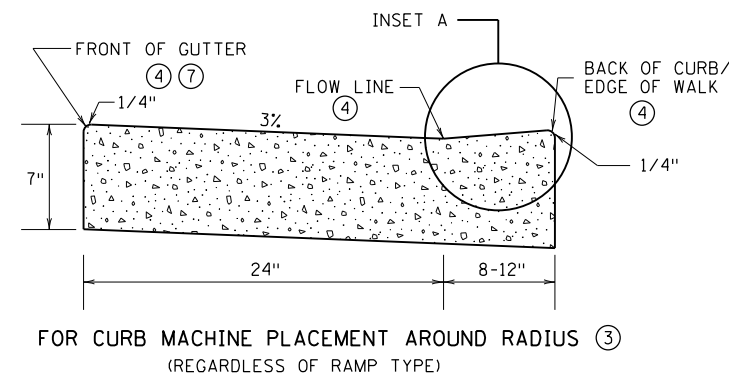
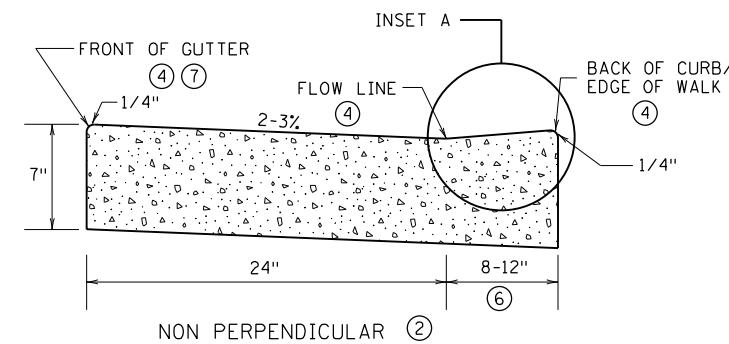
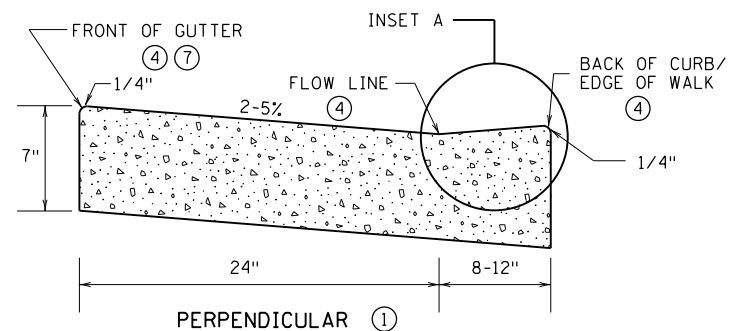
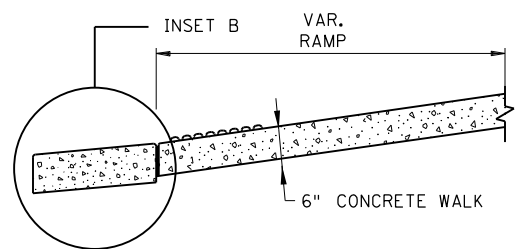
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|---|--|
| <p>MINNESOTA DEPARTMENT OF TRANSPORTATION</p> | <p>STANDARD PLAN 5-297.250</p> <p>2 OF 6</p> |
| | <p>APPROVED: 11-04-2021</p> <p>REVISED:</p> |

Tom Styrbicki
 THOMAS STYRBICKI
 STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

PLOTTED/REVISED: 04/18/2023

DISTRICT #: PLOT NAME: \$\$\$\PLOT\NAME\$\$\$
 PATH & FILENAME: P:\22-01-00\CSAH-II\Quince-Juniper\Base\Proposed\PED RAMP DETAILS.dgn

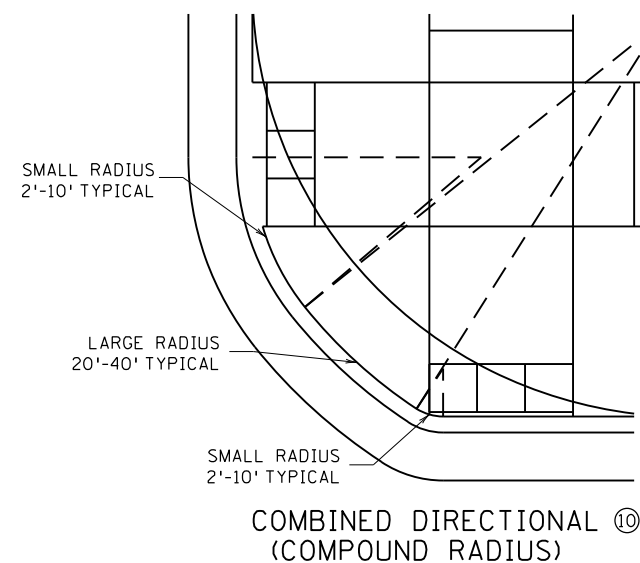
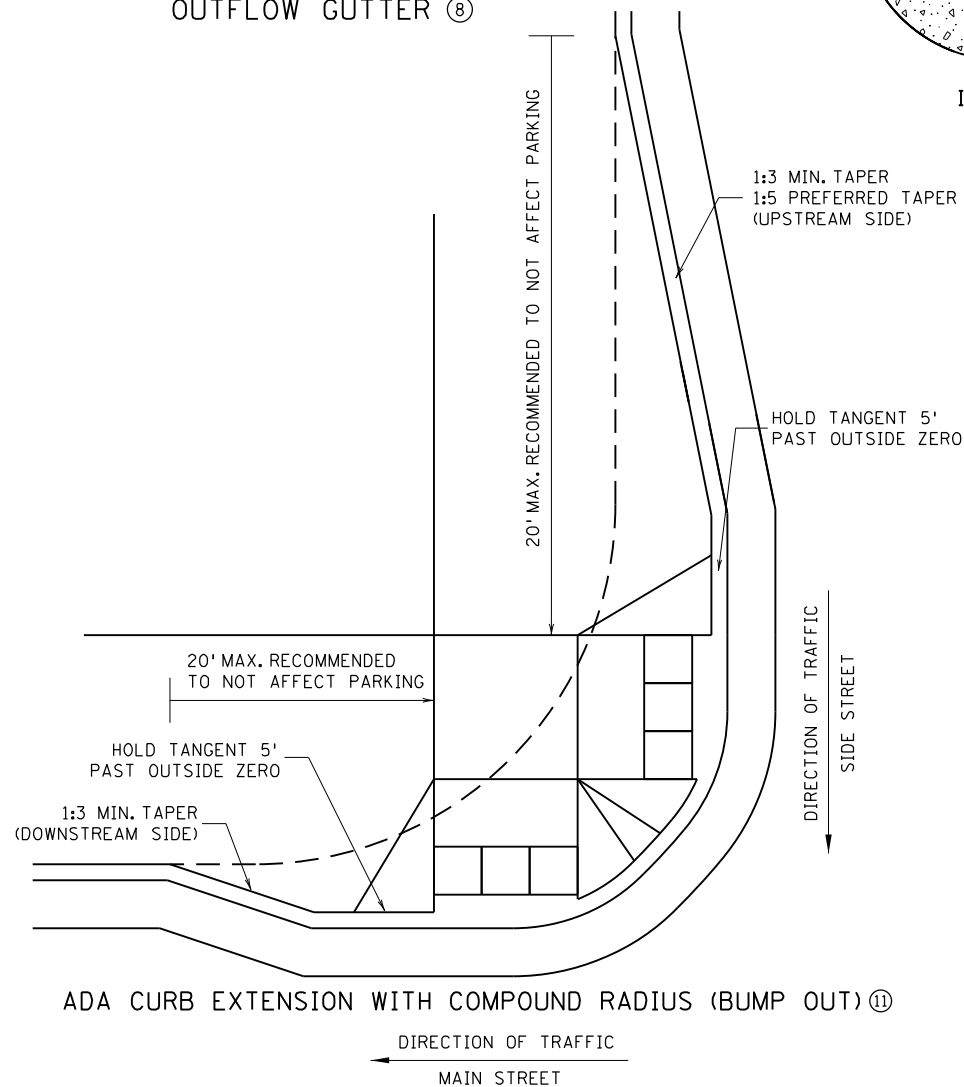


ONLY ALLOWED PER ENGINEER'S APPROVAL

PAVEMENT TREATMENT OPTIONS IN FRONT OF CURB & GUTTER
FOR USE ON CURB RAMP RETROFITS

NOTES:

- POSITIVE FLOW LINE DRAINAGE SHALL BE MAINTAINED THROUGH THE PEDESTRIAN ACCESS ROUTE (PAR) AT A 2% MAXIMUM. NO PONDING SHALL BE PRESENT IN THE PAR.
- ANY VERTICAL LIP THAT OCCURS AT THE FLOW LINE SHALL NOT BE GREATER THAN 1/4 INCH.
- ① FOR USE AT CURB CUTS WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED PERPENDICULAR TO THE GUTTER FLOW LINE. RAMP TYPES INCLUDE: PERPENDICULAR, TIERED PERPENDICULAR, PARALLEL, AND DIAGONAL RAMPS.
- ② FOR USE AT CURB RAMPS WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED NON PERPENDICULAR TO THE GUTTER FLOW LINE. RAMP TYPES INCLUDE: FANS & DEPRESSED CORNERS.
- ③ BEGIN GUTTER SLOPE TRANSITION 10' OUTSIDE OF ALL CURB RAMPS.
- ④ THERE SHALL BE NO VERTICAL DISCONTINUITIES GREATER THAN 1/4".
- ⑤ ELEVATION CHANGE TAKES PLACE FROM THE EXISTING TO NEW FRONT OF GUTTER. PATCH IS USED TO MATCH THE NEW GUTTER FACE INTO THE EXISTING ROADWAY.
- ⑥ VARIABLE WIDTH FOR DIRECTIONAL CURB APPLICATIONS. SEE SHEET 2 FOR DIRECTIONAL CURB SLOPE REQUIREMENTS.
- ⑦ TOP FRONT OF GUTTER SHALL BE CONSTRUCTED FLUSH WITH PROPOSED ADJACENT PAVEMENT ELEVATION. TOP 1.5" OF THE GUTTER FACE MUST BE A FORMED EDGE. PAR GUTTER SHALL NOT BE OVERLAID.
- ⑧ SHOULD BE USED AT VERTICALLY CONSTRAINED AREAS WHEN AT A DRAINAGE HIGH POINT OR SUPER ELEVATED ROADWAY SEGMENTS.
- ⑨ DRILL AND GROUT NO. 4 EPOXY-COATED 18" LONG TIE BARS AT 30" CENTER TO CENTER INTO EXISTING CONCRETE PAVEMENT 1' MINIMUM FROM ALL JOINTS.
- ⑩ HELPS PROVIDE TWO SEPARATE RAMPS, REDUCES THE DOME SETBACK LENGTH AND MINIMIZES DIRECTIONAL CURB. THIS RADIUS DESIGN CLOSELY FOLLOWS THE TURNING VEHICLE PATH WHILE OPTIMIZING CURB RAMP LENGTH.
- ⑪ CURB EXTENSIONS SHOULD BE USED IN VERTICALLY CONSTRAINED AREAS, USUALLY IN DOWNTOWN ROADWAY SEGMENTS WHERE ON-STREET PARKING IS AVAILABLE. CURB EXTENSIONS SHOULD BE CONSIDERED FOR APS INTERSECTIONS WHERE SPACE IS LIMITED. PUSH BUTTONS MUST MEET APS CRITERIA AS DESCRIBED IN THE PUSH BUTTON LOCATION DETAIL SHEET.



REVISION:
 APPROVED: 11-04-2021
 Jeff J. Perkins
 OPERATIONS DIVISION

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 MINNESOTA
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 TRANSPORTATION

STANDARD PLAN 5-297.250
 3 OF 6
 APPROVED: 11-04-2021
 REVISOR:
 THOMAS STYRBICKI
 STATE DESIGN ENGINEER

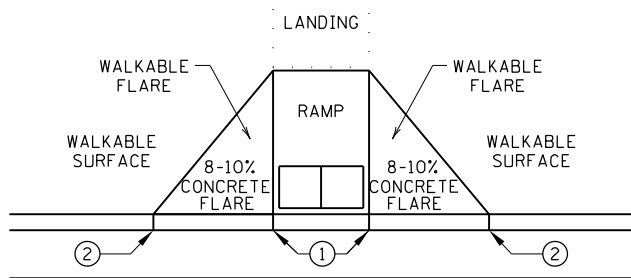
PEDESTRIAN CURB RAMP DETAILS

STATE AID PROJ. NO. 002-611-039

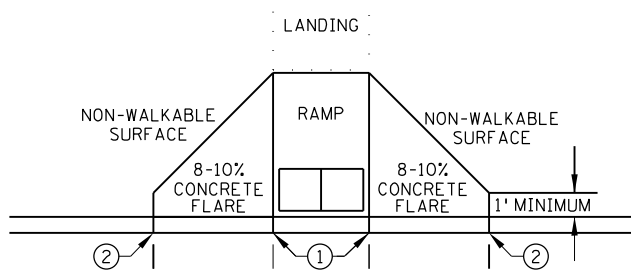
SHEET NO. 12 OF 22 SHEETS

PLOTTED/REVISED: 04/18/2023

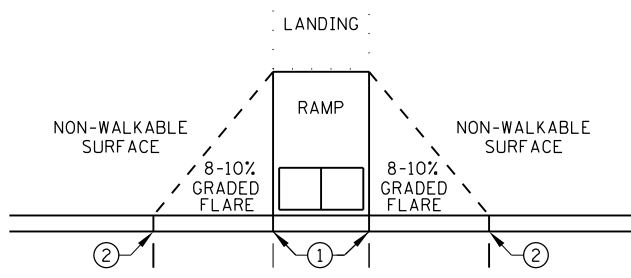
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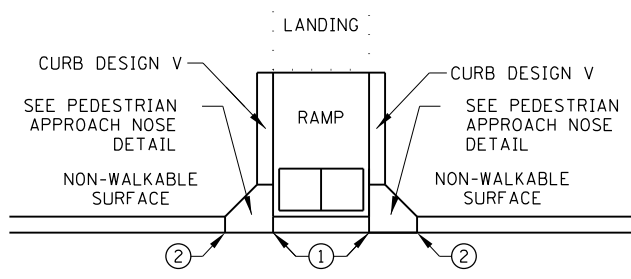
PAVED FLARES ADJACENT TO WALKABLE SURFACE



PAVED FLARES ADJACENT TO NON-WALKABLE SURFACE

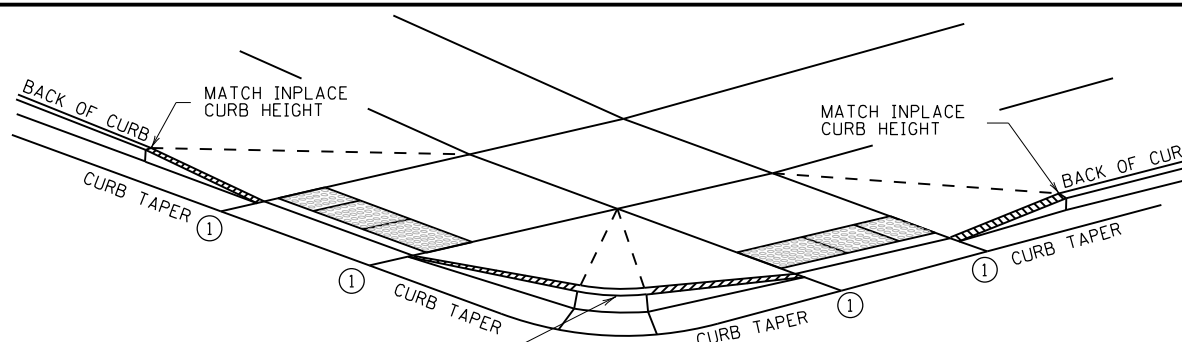


GRADED FLARES



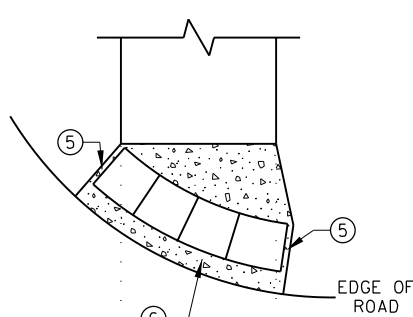
RETURNED CURB ④

TYPICAL SIDE TREATMENT OPTIONS ③ ⑩

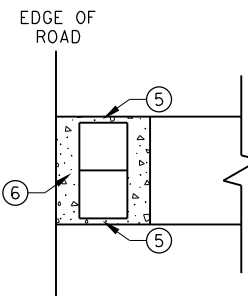


3" MINIMUM CURB HEIGHT, 4" PREFERRED (MEASURED AT FRONT FACE OF CURB) FOR A MIN. 6" LENGTH (MEASURED ALONG FLOW LINE)

DETECTABLE EDGE WITH CURB AND GUTTER ⑦

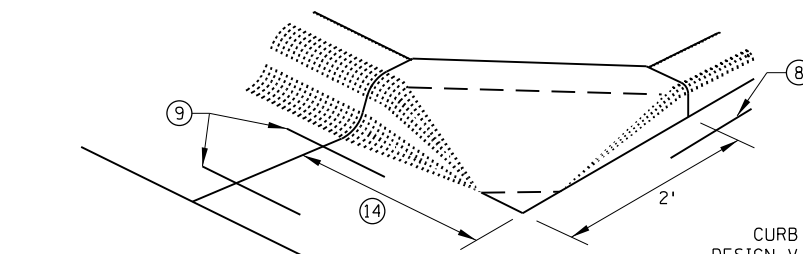


RADIAL DETECTABLE WARNING

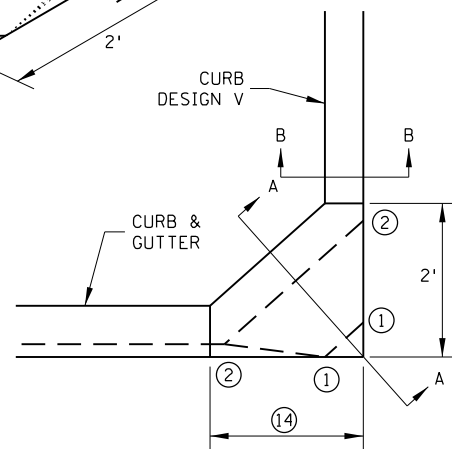


RECTANGULAR DETECTABLE WARNING

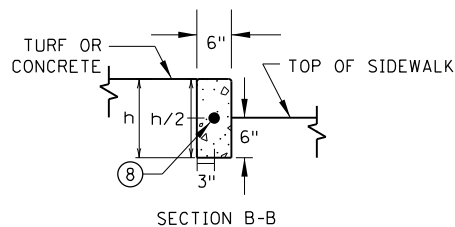
DETECTABLE EDGE WITHOUT CURB AND GUTTER



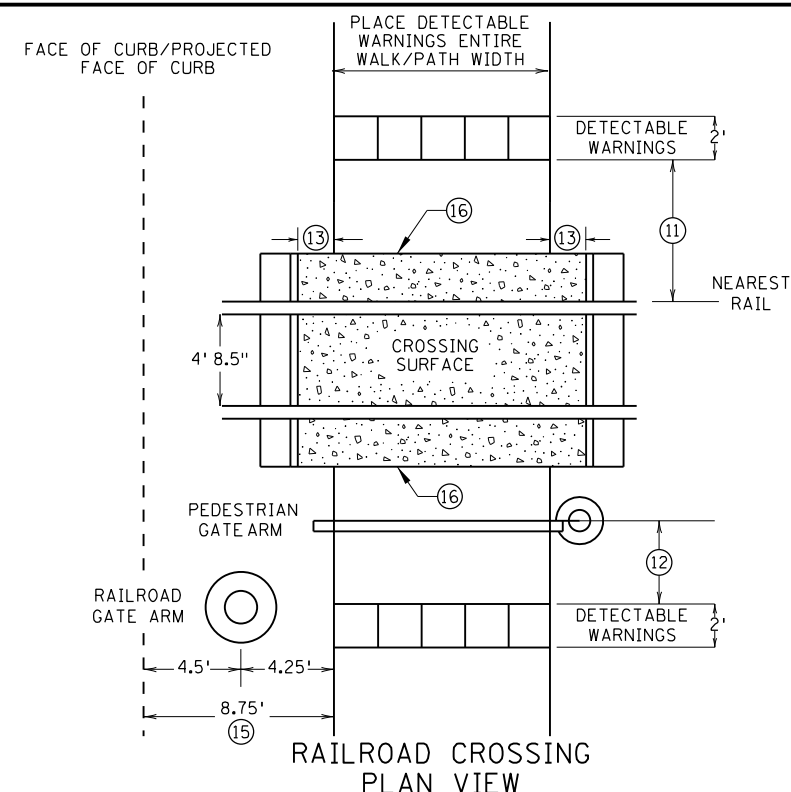
SECTION A-A



PEDESTRIAN APPROACH NOSE DETAIL (FOR RETURNED CURB SIDE TREATMENT)



SECTION B-B



RAILROAD CROSSING PLAN VIEW

NOTES:

- INTERMEDIATE CURB HEIGHTS TAPER SHALL RISE AT 8-10% TO A MINIMUM 3 INCH CURB HEIGHT. INCREASE CURB TAPER LENGTH AT LESS THAN 8% OR REDUCE INTERMEDIATE CURB HEIGHT TO 2+ INCHES IF NECESSARY TO MATCH ADJACENT BOULEVARD OR SIDEWALK GRADES.
- SEE STANDARD PLATE 7038 AND THIS SHEET FOR ADDITIONAL DETAILS ON DETECTABLE WARNING.
- A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP WITHOUT RAISED OBSTACLES THAT COULD MISTAKENLY BE TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED.
- CONCRETE FLARE LENGTHS ADJACENT TO NON-WALKABLE SURFACES SHOULD BE LESS THAN 8' LONG MEASURED ALONG THE RAMPS FROM THE BACK OF CURB.
- ① 0" CURB HEIGHT. SEE INSET A ON SHEET 3 OF 6.
- ② FULL CURB HEIGHT.
- ③ SIDE TREATMENTS ARE APPLICABLE TO ALL RAMP TYPES AND SHOULD BE IMPLEMENTED AS NEEDED AS FIELD CONDITIONS DICTATE. THE ENGINEER SHALL DETERMINE THE RAMP SIDE TREATMENTS BASED ON MAINTENANCE OF BOTH ROADWAY AND SIDEWALK, ADJACENT PROPERTY CONSIDERATIONS, AND MITIGATING CONSTRUCTION IMPACTS.
- ④ TYPICALLY USED FOR MEDIANS AND ISLANDS.
- ⑤ WHEN NO CONCRETE FLARES ARE PROPOSED, THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE EDGE OF ROADWAY. MAINTAIN 3" MAX. BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.
- ⑥ IF NO CURB AND GUTTER IS PLACED IN RURAL SECTIONS, DETECTABLE WARNINGS SHALL BE PLACED 1' FROM THE EDGE OF BITUMINOUS ROADWAY AND/OR BITUMINOUS SHARED-USE PATH TO PROVIDE VISUAL CONTRAST.
- ⑦ ALL CONSTRUCTED CURBS MUST HAVE A CONTINUOUS DETECTABLE EDGE FOR THE VISUALLY IMPAIRED. THIS DETECTABLE EDGE REQUIRES DETECTABLE WARNINGS WHEREVER THERE IS ZERO-INCH HIGH CURB. CURB TAPERS ARE CONSIDERED A DETECTABLE EDGE WHEN THE TAPER STARTS WITHIN 3" OF THE EDGE OF THE DETECTABLE WARNINGS, AND UNIFORMLY RISES TO A 3-INCH MINIMUM CURB HEIGHT. ANY CURB NOT PART OF A CURB TAPER AND LESS THAN 3 INCHES IN HEIGHT IS NOT CONSIDERED A DETECTABLE EDGE AND THEREFORE IS NOT COMPLIANT WITH ACCESSIBILITY STANDARDS.
- ⑧ DRILL AND GROUT 1 - NO. 4 12" LONG REINFORCEMENT BAR (EPOXY COATED) WITH 3" MIN. COVER. REINFORCEMENT BARS ARE NOT NEEDED IF THE APPROACH NOSE IS POURED INTEGRAL WITH THE V CURB.
- ⑨ DRILL AND GROUT 2 - NO. 4 12" LONG REINFORCEMENT BARS (EPOXY COATED) WITH 3" MIN. COVER. REINFORCEMENT BARS ARE NOT NEEDED IF THE APPROACH NOSE IS POURED INTEGRAL WITH THE CURB AND GUTTER.
- ⑩ SIDE TREATMENT EXAMPLES SHOWN ARE WHEN THE INITIAL LANDING IS APPROXIMATELY LEVEL WITH THE FULL HEIGHT CURB (I.E. 6' LONG RAMP FOR 6" HIGH CURB). WHEN THE INITIAL LANDING IS MORE THAN 1" BELOW FULL HEIGHT CURB REFER TO SHEETS 1 & 2 TO MODIFY THE CURB HEIGHT TAPERS AND MAINTAIN POSITIVE BOULEVARD DRAINAGE. CONSTRUCT THESE TAPERS AT 0"-3" AT 8-10%, THEN LESS THAN 5% FROM 3" CURB TO FULL CURB HEIGHT.
- ⑪ NEAREST EDGE OF DETECTABLE WARNING SURFACES SHALL BE PLACED 12' MINIMUM TO 15' MAXIMUM FROM THE NEAREST RAIL. FOR SKEWED RAILWAYS IN NO INSTANCE SHALL THE DETECTABLE WARNING BE CLOSER THAN 12' MEASURED PERPENDICULAR TO THE NEAREST RAIL.
- ⑫ WHEN PEDESTRIAN GATES ARE PROVIDED, DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE SIDE OF THE GATES OPPOSITE THE RAIL, 2' FROM THE APPROACHING SIDE OF THE GATE ARM. THIS CRITERIA GOVERNS OVER NOTE ⑪.
- ⑬ CROSSING SURFACE SHALL EXTEND 2' MINIMUM PAST THE OUTSIDE EDGE OF WALK OR SHARED-USE PATH.
- ⑭ 3' FOR MEDIANS AND SPLITTER ISLANDS. NOSE CAN BE REDUCED TO 2' ON FREE RIGHT ISLANDS.
- ⑮ SIDEWALK TO BE PLACED 8.75' MIN. FROM THE FACE OF CURB/PROJECTED FACE OF CURB. THIS ENSURES MIN. CLEARANCE BETWEEN THE SIDEWALK AND GATE ARM COUNTERWEIGHT SUPPORTS.
- ⑯ CONSTRUCT WITH EXPANSION MATERIAL PER MNDOT SPECIFICATION 3702 TYPES A-E. EXPANSION MATERIAL SHALL MATCH FULL HEIGHT OF ADJACENT CONCRETE.

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| REVISION: |
| APPROVED: 11-04-2021 |
| <i>Jeff J. Pel</i> JEFFREY PERKINS OPERATIONS DIVISION |



STANDARD PLAN 5-297.250

4 OF 6

Tom Styrbicki
THOMAS STYRBICKI
STATE DESIGN ENGINEER

APPROVED: 11-04-2021
REVISED:

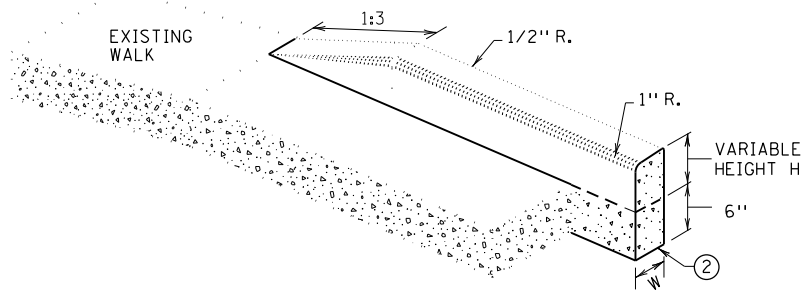
PEDESTRIAN CURB RAMP DETAILS

STATE AID PROJ. NO. 002-611-039

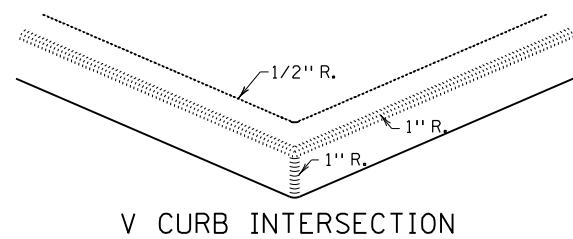
SHEET NO. 13 OF 22 SHEETS

PLOTTED/REVISED: 04/18/2023

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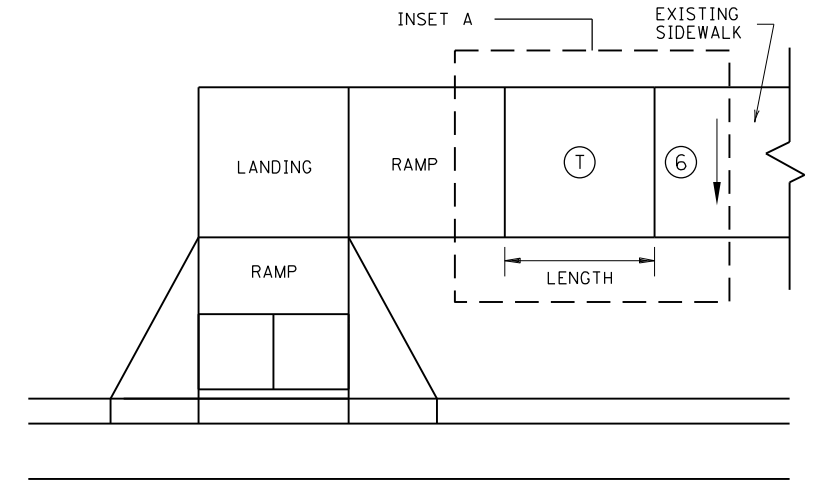


V CURB ADJACENT TO LANDSCAPE
CURB WITHIN SIDEWALK LIMITS

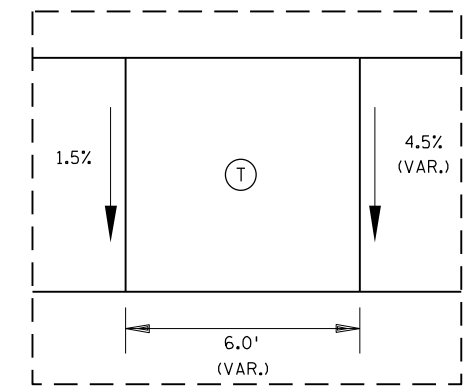


V CURB INTERSECTION

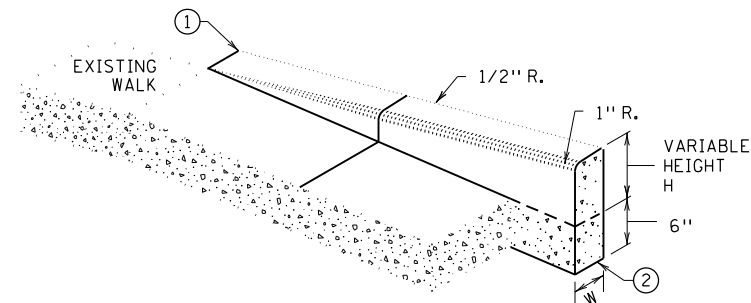
| CONCRETE CURB DESIGN V | |
|------------------------|--------------|
| CURB HEIGHT H | CURB WIDTH W |
| < 6" | 4" |
| ≥ 6" | 6" |



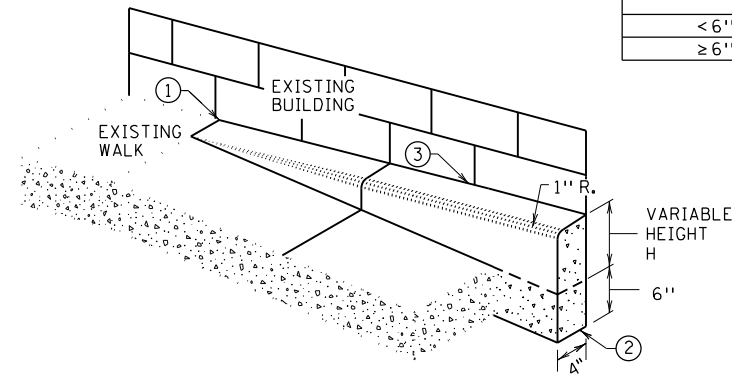
TRANSITION PANEL ④ ⑤



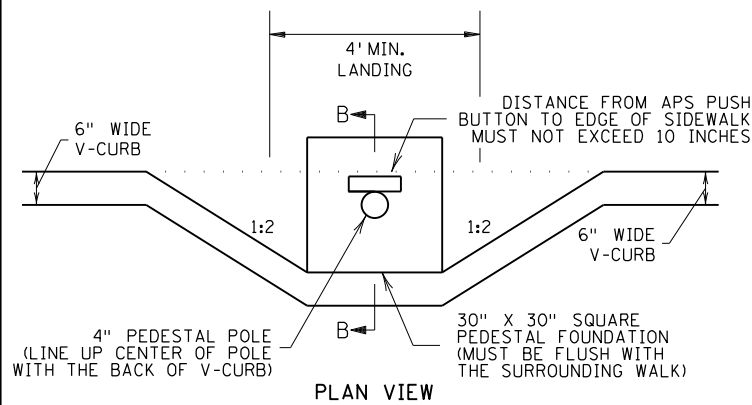
INSET A



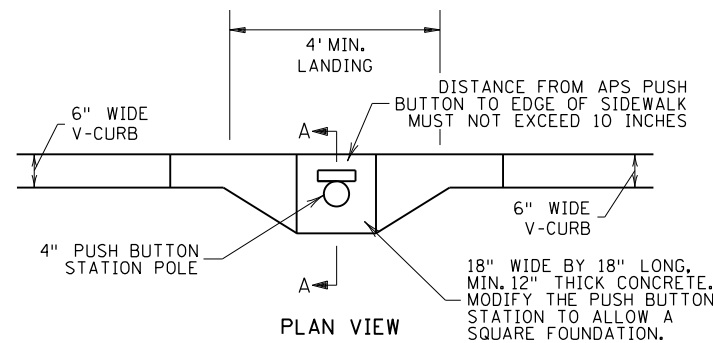
V CURB ADJACENT TO LANDSCAPE
CURB OUTSIDE SIDEWALK LIMITS



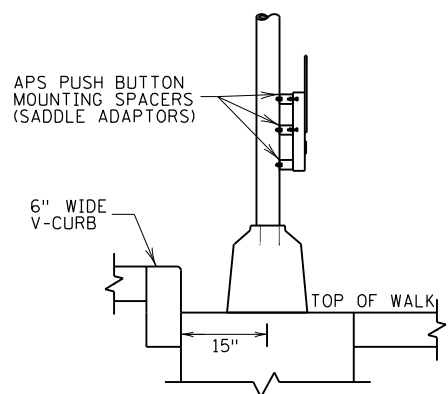
V CURB ADJACENT TO BUILDING
OR BARRIER



PLAN VIEW

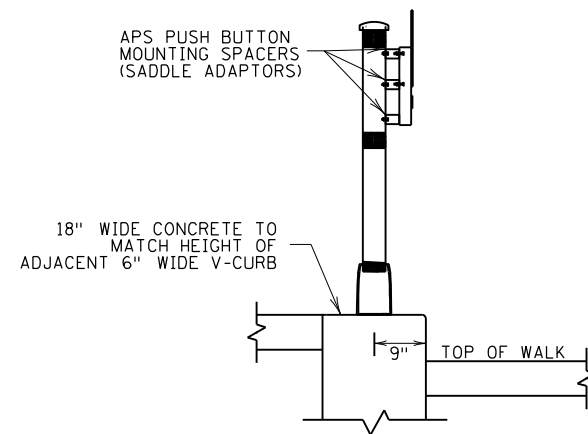


PLAN VIEW



SECTION B-B

SIGNAL PEDESTAL & PUSH BUTTON (V-CURB)



SECTION A-A

PUSH BUTTON STATION (V-CURB)

NOTES:

A WALKABLE FLARE IS AN 8-10% CONCRETE FLARE THAT IS REQUIRED WHEN THE FLARE IS ADJACENT TO A WALKABLE SURFACE, OR WHEN THE PEDESTRIAN PATH OF TRAVEL OF A PUSH BUTTON TRAVERSES THE FLARE.

ALL V CURB CONTRACTION JOINTS SHALL MATCH CONCRETE WALK JOINTS.

WHERE RIGHT-OF-WAY ALLOWS, USE OF V CURB SHOULD BE MINIMIZED. GRADING ADJACENT TURF OR SLOPING ADJACENT PAVEMENT IS PREFERRED.

V CURB SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS.

V CURB NEXT TO BUILDING SHALL BE A 4" WIDTH AND SHALL MATCH PREVIOUS TOP OF SIDEWALK ELEVATIONS.

- ① END TAPERS AT TRANSITION SECTION SHALL MATCH INPLACE SIDEWALK GRADES.
- ② ALL V CURB SHALL MATCH BOTTOM OF ADJACENT WALK.
- ③ CONSTRUCT USING APPROVED EXPANSION MATERIAL PER MNDOT TYPE A-E EXPANSION. LEAVE A MINIMUM 1/2" TOP GAP AND SEAL WITH MNDOT APPROVED SILICONE PER MNDOT SPEC 3722.
- ④ THE MAX. RATE OF CROSS SLOPE TRANSITIONING IS 1' LINEAR FOOT OF SIDEWALK PER HALF PERCENT CROSS SLOPE. WHEN PAR WIDTH IS GREATER THAN 6' OR THE RUNNING SLOPE IS GREATER THAN 5%, DOUBLE THE CALCULATED TRANSITION LENGTH.
- ⑤ TRANSITION PANELS ARE TO ONLY BE USED AFTER THE RAMP, OR IF NEEDED, LANDING ARE AT THE FULL CURB HEIGHT (TYPICAL SECTION).
- ⑥ EXISTING CROSS SLOPE GREATER THAN 2.0%.

LEGEND

THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.

- Ⓢ INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%.
- ▨ LANDING AREA - 4' X 4' MIN. (5' X 5' MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PARS.
- Ⓣ TRANSITION PANEL(S) - TO BE USED FOR TRANSITIONING THE CROSS-SLOPE OF A RAMP TO THE EXISTING WALK CROSS-SLOPE. RATE OF TRANSITION SHOULD BE 0.5% PER 1 LINEAR FOOT OF WALK. SEE THIS SHEET FOR ADDITIONAL INFORMATION.

REVISION:
 APPROVED: 11-04-2021

 JEFF PERKINS
 OPERATIONS DIVISION

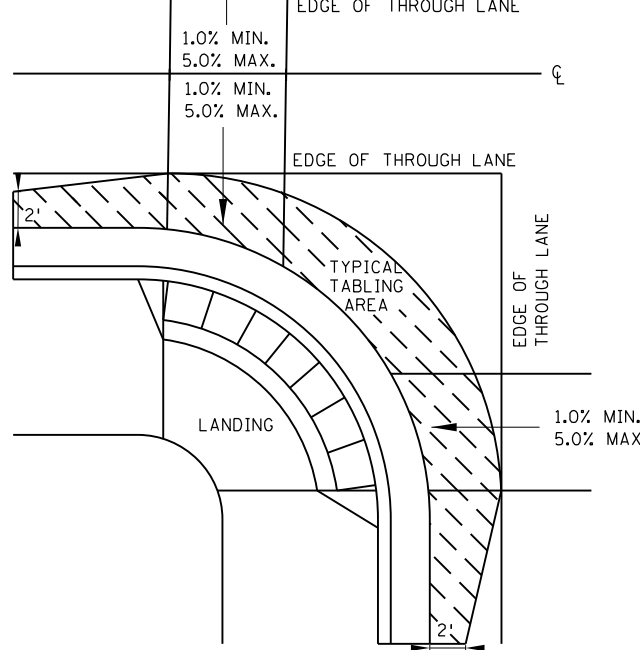
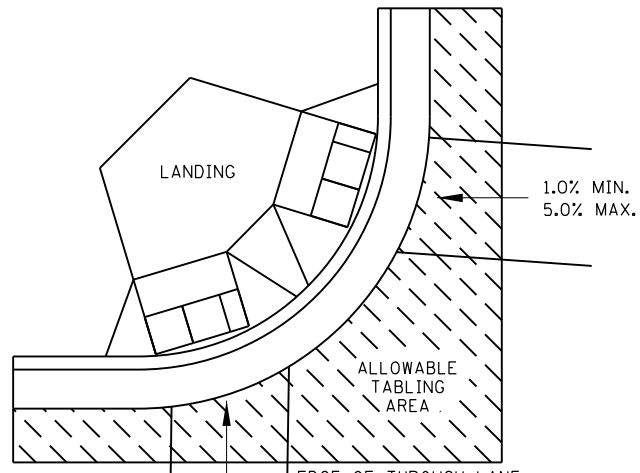
MINNESOTA
 DEPARTMENT OF TRANSPORTATION
 STANDARD PLAN 5-297.250 5 OF 6
 APPROVED: 11-04-2021
 REVISED:

 THOMAS STYRBICKI
 STATE DESIGN ENGINEER

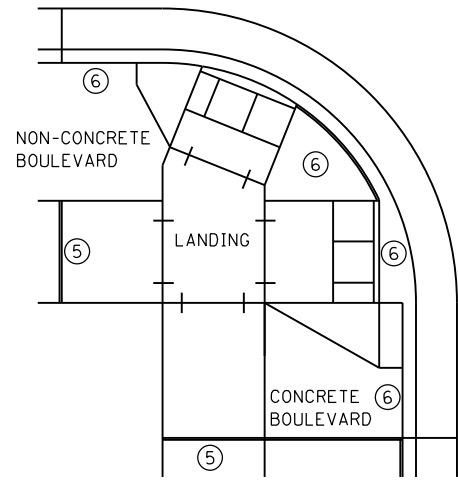
PEDESTRIAN CURB RAMP DETAILS
 STATE AID PROJ. NO. 002-611-039
 SHEET NO. 14 OF 22 SHEETS

PLOTTED/REVISED: 04/18/2023

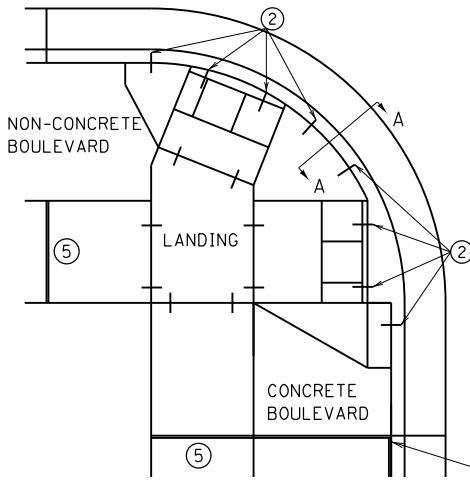
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CURB LINE AND ROAD CROSSING ADJUSTMENTS



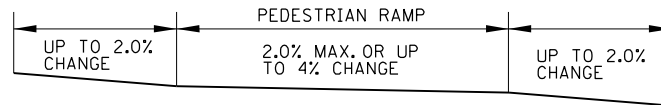
EXPANSION MATERIAL PLACEMENT FOR CONCRETE ROADWAYS



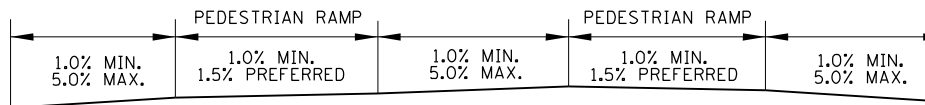
CURB LINE REINFORCEMENT PLACEMENT ON BITUMINOUS ROADWAYS



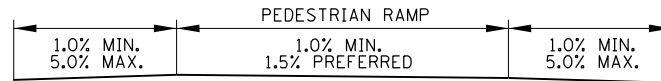
FLOW LINE PROFILE "TABLE" - TWIN PERPENDICULARS



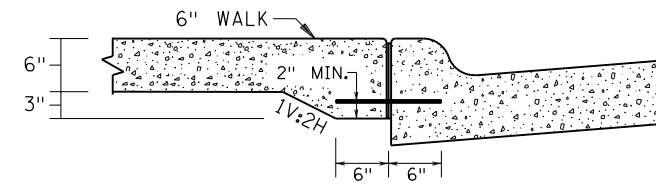
FLOW LINE PROFILE "TABLE" - FAN



FLOW LINE PROFILE RAISE - TWIN PERPENDICULARS

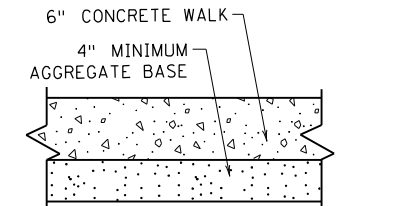


FLOW LINE PROFILE RAISE - FAN

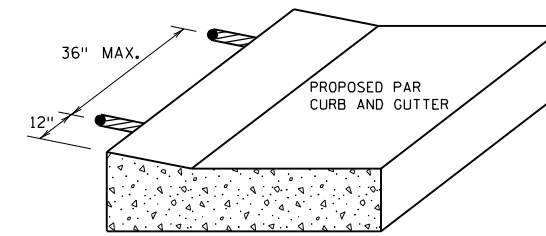


SECTION VIEW A-A THICKENED SECTION THROUGH CURB RAMP FLARES

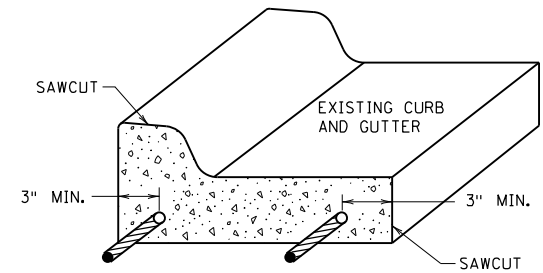
END SILL CURB AT TOP OF CURB RAMP AND DRIVEWAY FLARES.



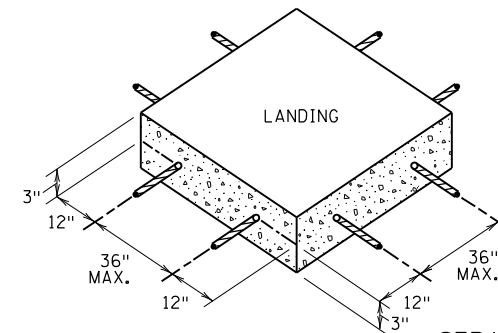
TYPICAL SIDEWALK SECTION WITHIN INTERSECTION CORNER



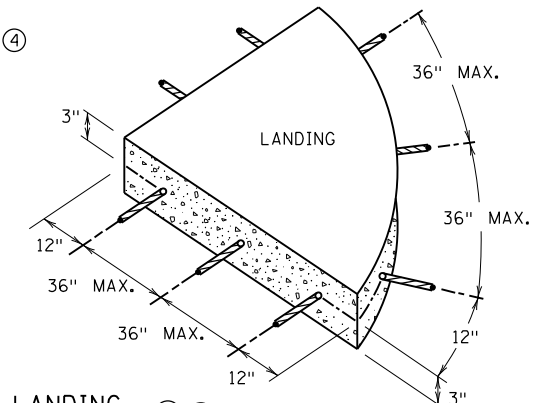
CURB RAMP REINFORCEMENT DETAILS



CURB AND GUTTER REINFORCEMENT



SEPARATE LANDING POUR REINFORCEMENT



GENERAL NOTES:

"TABLING" OF CROSSWALKS MEANS MAINTAINING LESS THAN 2% CROSS SLOPE WITHIN A CROSSWALK, IS REQUIRED WHEN A ROADWAY IS IN A STOP OR YIELD CONDITION AND THE PROJECT SCOPE ALLOWS.

RECONSTRUCTION PROJECTS: ON FULL PAVEMENT REPLACEMENT PROJECTS "TABLING" OF ENTIRE CROSSWALK SHALL OCCUR WHEN FEASIBLE.

MILL & OVERLAY PROJECTS: "TABLING" OF FLOW LINES, IN FRONT OF THE PEDESTRIAN RAMP, IS REQUIRED WHEN THE EXISTING FLOW LINE IS GREATER THAN 2%. WARPING OF THE BITUMINOUS PAVEMENT CAN NOT EXTEND INTO THE THROUGH LANE. TABLE THE FLOW LINE TO 2% OR AS MUCH AS POSSIBLE WHILE ADHERING TO THE FOLLOWING CRITERIA:

- 1) 1.0% MIN. CROSS-SLOPE OF THE ROAD
- 2) 5.0% MAX. CROSS-SLOPE OF THE ROAD
- 3) "TABLE" FLOW LINE UP TO 4% CHANGE FROM EXISTING SLOPE IN FRONT OF PEDESTRIAN RAMP
- 4) UP TO 2% CHANGE IN FLOW LINE FROM EXISTING SLOPE BEYOND THE PEDESTRIAN CURB RAMP

STAND-ALONE ADA RETROFITS: FOLLOW MILL & OVERLAY CRITERIA ABOVE HOWEVER ALL PAVEMENT WARPING IS DONE WITH BITUMINOUS PATCHING ON BITUMINOUS ROADWAYS AND FULL-DEPTH APRON REPLACEMENT ON CONCRETE ROADWAYS.

RAISING OF CURB LINES SHOULD OCCUR IN VERTICALLY CONSTRAINED AREAS. RAISE THE CURB LINES ENOUGH TO ALLOW COMPLIANT RAMPS OR AS MUCH AS POSSIBLE WHILE ADHERING TO THE FOLLOWING CRITERIA:

- 1) 1.0% MIN. AND 5.0% MAXIMUM CROSS-SLOPE OF THE ROAD
- 2) 1.0% MIN. FLOW LINE (ON EITHER SIDE OF PEDESTRIAN RAMP) TO MAINTAIN POSITIVE DRAINAGE
- 3) 5.0% RECOMMENDED MAX. FLOW LINE
- 4) LONGITUDINAL THROUGH LANE ROADWAY TAPERS SHOULD BE 1" VERTICAL PER 15' HORIZONTAL

NOTES:

- 1) TO ENSURE RAMPS AND LANDINGS ARE PROPERLY CONSTRUCTED, ALL INITIAL LANDINGS AT A TOP OF A RAMPED SURFACE (RUNNING SLOPE GREATER THAN 2%) SHALL BE FORMED AND PLACED SEPARATELY IN AN INDEPENDENT CONCRETE POUR. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON THIS SHEET FOR ALL SEPARATELY POURED INITIAL LANDINGS.
- 2) DRILL AND GROUT NO. 4 12" LONG REINFORCEMENT BARS (EPOXY COATED) AT 36" MAXIMUM CENTER TO CENTER MINIMUM 12" SPACING FROM CONSTRUCTION JOINTS. BARS TO BE ADJUSTED TO MATCH RAMP GRADE. BARS TO BE PAID BY EACH.
- 3) DRILL AND GROUT 2 - NO. 4 X 12" LONG (6" EMBEDDED) REINFORCEMENT BARS (EPOXY COATED). REINFORCEMENT REQUIRED FOR ALL CONSTRUCTION JOINTS. BARS TO BE PAID BY EACH.
- 4) THIS CURB LINE REINFORCEMENT DETAIL SHALL BE USED ON BITUMINOUS ROADWAYS. FOR CONCRETE ROADWAYS, SEE NOTE 6.
- 5) CONSTRUCT WITH EXPANSION MATERIAL PER MNDOT SPECIFICATION 3702 TYPES A-E. EXPANSION MATERIAL SHALL MATCH FULL HEIGHT OF ADJACENT CONCRETE.
- 6) USE AN APPROVED TYPE F (1/4 INCH THICK) SEPARATION MATERIAL. SEPARATION MATERIAL SHALL MATCH FULL HEIGHT DIMENSION OF ADJACENT CONCRETE.

REVISION:

APPROVED: 11-04-2021

JEFF PERKINS
OPERATIONS DIVISION

MINNESOTA
DEPARTMENT OF TRANSPORTATION

STANDARD PLAN 5-297.250 6 OF 6

THOMAS STYRBICKI
STATE DESIGN ENGINEER

APPROVED: 11-04-2021
REVISED:

PEDESTRIAN CURB RAMP DETAILS

STATE AID PROJ. NO. 002-611-039

SHEET NO. 15 OF 22 SHEETS

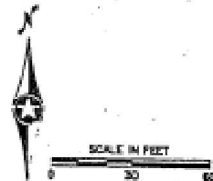
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NOTES:

- 1) ALL LOOP DETECTORS ARE IN 1" N.M.C. (SEE DETAIL 5)
- 2) SEE SPECIAL PROVISIONS FOR INSTALLING GUARD POSTS.
- 3) SEE SPECIAL PROVISIONS FOR CONTRACTORS RESPONSIBILITY FOR THE LOCATION OF UTILITIES.
- 4) LOOP DETECTORS/CONDUCTORS SHALL BE CROSS LINKED POLYETHYLENE (KLP). SEE SPECIAL PROVISIONS.



SIGNAL INDICATIONS

| FACE | PHASE | FLASH | R | Y | G |
|------|-------|-------|----|----|----|
| 2-1 | 2 | R | 12 | 12 | 12 |
| 2-2 | 2 | R | 12 | 12 | 12 |
| 2-3 | 2 | R | 12 | 12 | 12 |
| 4-1 | 1 | | 15 | 15 | 15 |
| 4-2 | 1 | R | 12 | 12 | 12 |
| 6-1 | 2 | R | 12 | 12 | 12 |
| 6-2 | 2 | R | 12 | 12 | 12 |
| 6-3 | 2 | R | 12 | 12 | 12 |

LOOP DETECTORS

| NUMBER | SIZE | FUNCTION | DISTANCE | NO. OF TURNS |
|--------|----------|----------|----------|--------------|
| D2-1 | 1-6'x6' | (1) | 258' | 3 |
| D4-1 | 1-6'x6' | (2) | 75' | 3 |
| D4-2 | 1-6'x20' | (3) | — | 2 |
| D6-1 | 1-6'x6' | (1) | 258' | 3 |

FUNCTIONS

- (1) CALL AND EXTEND
- (2) EXTEND ONLY
- (3) CALL AFTER DELAY, EXTEND IMMEDIATELY

| SURVEY | CHECKED BY: | NO. | DATE | REVISIONS |
|--------|-------------|-----|------|------------------|
| DESIGN | GVW | 1 | 8/15 | For Anoka County |

| NO. | DATE | BY | CKD | APPR | REVISION | DATE | TIME |
|-----|------------|----|-----|------|----------|------|------------|
| | 04/18/2023 | | | | | | 8:25:55 AM |

NAME: P:\22-01-00CSAH_11_Quince-Juniper\BaselProposed\SIGNAL_SYSTEM.dgn

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: _____

SIGNATURE: _____

DATE: _____ LICENSE NO. _____

DRAWN BY: MA DATE 2/24/2022

DESIGN BY: MA DATE 2/24/2022

CHECKED BY: CO DATE 2/24/2022

SHORT - ELLIOTT - HENDRICKSON, INC.

ANOKA COUNTY HIGHWAY DEPT.

SAP 02-611-26

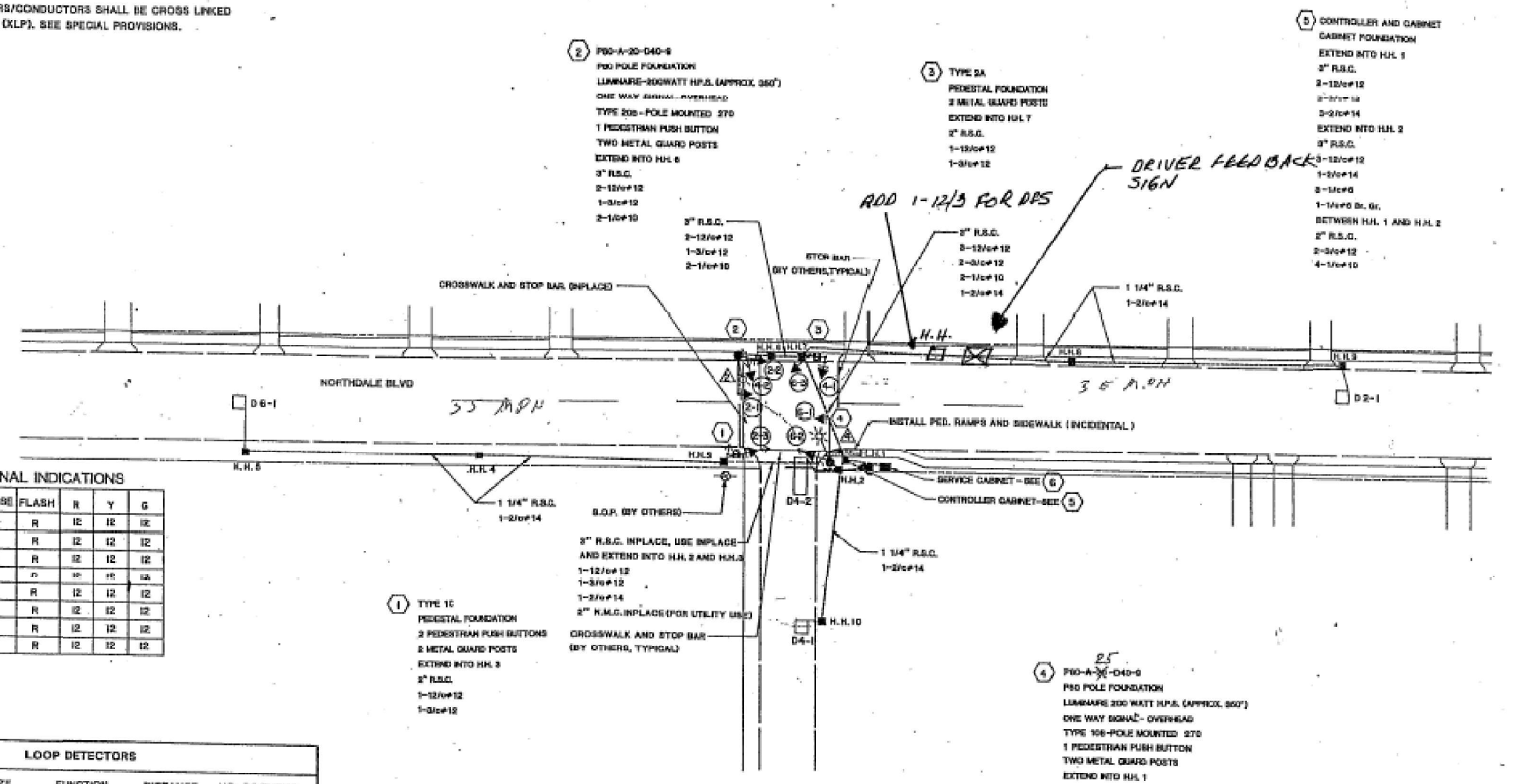
SIGNAL SYSTEM A

COON RAPIDS, MINNESOTA

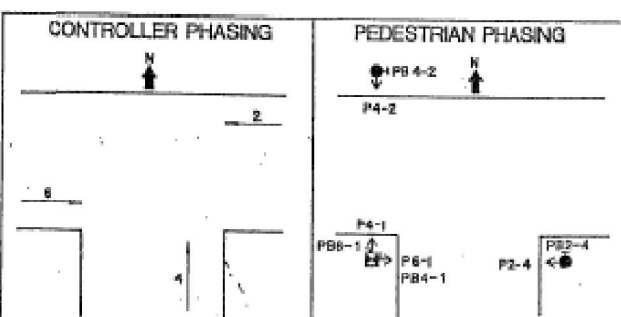
EXISTING SIGNAL PLANS

STATE AID PROJECT 002-611-039

Sheet 16 of 22 Sheets



- 2) P80-A-20-D40-6
P80 POLE FOUNDATION
LUMINAIRE-200WATT H.P.S. (APPROX. 360')
ONE WAY SIGNAL- OVERHEAD
TYPE 208-POLE MOUNTED STD
1 PEDESTRIAN PUSH BUTTON
TWO METAL GUARD POSTS
EXTEND INTO H.H. 6
3" R.S.C.
2-12/12
1-3/4x12
2-1/4x10
- 3) TYPE 2A
PEDESTAL FOUNDATION
2 METAL GUARD POSTS
EXTEND INTO H.H. 7
2" R.S.C.
1-12/12
1-3/4x12
- 5) CONTROLLER AND CABINET
CABINET FOUNDATION
EXTEND INTO H.H. 1
3" R.S.C.
2-12/12
2-3/4x12
2-3/4x14
EXTEND INTO H.H. 2
3" R.S.C.
2-12/12
1-3/4x12
2-3/4x14
2-3/4x10
1-1/4x6 Dr. Gr.
BETWEEN H.H. 1 AND H.H. 2
2" R.S.C.
2-3/4x12
4-1/4x10
- 6) SERVICE CABINET
STUD GUT 1 1/4" R.S.C.
EXTEND INTO H.H. 2
1 1/4" R.S.C.
2-1/4x6
1-1/4x6 Dr. Gr.
1" R.S.C.
2-1/4x10



FOR REFERENCE PURPOSES ONLY

**PERMANENT PAVEMENT MARKING PLAN
NOTES AND GUIDELINES**

GENERAL INFORMATION:

THE ENGINEER'S INVOLVEMENT IN THE APPLICATION OF THE MATERIAL SHALL BE LIMITED TO FIELD CONSULTATION AND INSPECTION. ANOKA COUNTY HIGHWAY DEPARTMENT WILL PLACE NECESSARY "SPOTTING" AT APPROPRIATE POINTS TO PROVIDE HORIZONTAL CONTROL FOR STRIPING AND TO DETERMINE NECESSARY STARTING AND CUTOFF POINTS. LONGITUDINAL JOINTS, PAVEMENT EDGES AND EXISTING MARKINGS MAY SERVE AS HORIZONTAL CONTROL WHEN SO DIRECTED.

EDGE LINES AND LANE LINES ARE TO BE BROKEN ONLY AT INTERSECTIONS WITH PUBLIC ROADS AND AT PRIVATE ENTRANCES IF THEY ARE CONTROLLED BY A YIELD SIGN, STOP SIGN OR TRAFFIC SIGNAL. THE BREAK POINT IS TO BE AT THE START OF THE RADIUS FOR THE INTERSECTION OR AT MARKED STOP LINES OR CROSSWALKS.

A TOLERANCE OF 1/4 INCH UNDER OR 1/4 INCH OVER THE SPECIFIED WIDTH WILL BE ALLOWED FOR STRIPING PROVIDED THE VARIATION IS GRADUAL AND DOES NOT DETRACT FROM THE GENERAL APPEARANCE. BROKEN LINE SEGMENTS MAY VARY UP TO ONE-HALF FOOT FROM THE SPECIFIED LENGTHS PROVIDED THE OVER AND UNDER VARIATIONS ARE REASONABLY COMPENSATORY. ALIGNMENT DEVIATIONS FROM THE CONTROL GUIDE SHALL NOT EXCEED 1 INCH. MATERIAL SHALL NOT BE APPLIED OVER LONGITUDINAL JOINTS. ESTABLISHMENT OF APPLICATION TOLERANCES SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COMPLY AS CLOSELY AS PRACTICABLE WITH THE PLANNED DIMENSIONS.

MULTI COMPONENT (MULTI COMP):

THE ROAD SURFACE SHALL BE CLEANED AT THE DIRECTION OF THE ENGINEER JUST PRIOR TO APPLICATION. PAVEMENT CLEANING SHALL CONSIST OF AT LEAST BRUSHING WITH A ROTARY BROOM (NON-METALLIC) OR AS RECOMMENDED BY THE MATERIAL MANUFACTURER AND ACCEPTABLE TO THE ENGINEER. NEW PORTLAND CEMENT CONCRETE SURFACES SHALL BE SANDBLAST CLEANED TO REMOVE ANY SURFACE TREATMENT AND/OR LAITANCE ON LOW SPEED (SPEED LIMIT 35 MPH OR LESS) URBAN PORTLAND CEMENT CONCRETE ROADWAYS. SANDBLAST CLEANING SHALL BE USED FOR ALL MULTI COMP PAVEMENT MARKINGS.

THE MULTI COMP MARKING APPLICATION SHALL IMMEDIATELY FOLLOW THE PAVEMENT CLEANING. GLASS BEADS SHALL BE APPLIED IMMEDIATELY AFTER APPLICATION OF THE MULTI COMP LINE TO PROVIDE AN IMMEDIATE NO-TRACK SYSTEM.

A MULTI COMP LINE SHALL BE APPLIED WITH A MINIMUM THICKNESS OF 20 MILS (WET) AND 4" WIDE. GLASS BEADS SHALL BE APPLIED AT A MINIMUM RATE OF 25LBS POUNDS PER GALLON RATE SUFFICIENT TO ACHIEVE AN ACCEPTABLE NO-TRACK SYSTEM.

OPERATIONS SHALL BE CONDUCTED ONLY WHEN THE ROAD PAVEMENT SURFACE TEMPERATURES ARE 50 DEGREES FAHRENHEIT OR GREATER.

PERMANENT PAVEMENT MARKINGS SHALL NOT BE PLACED OVER TEMPORARY TAPE MARKINGS.

PREFORMED THERMOPLASTIC:

THE PREFORMED THERMOPLASTIC MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS ON CLEAN AND DRY SURFACES. SEE SPECIAL PROVISIONS FOR PREFORMED THERMOPLASTIC MARKING SPECIFICATIONS.

PAINT:

AT THE TIME OF APPLYING THE MARKING MATERIAL, THE APPLICATION AREA SHALL BE FREE OF CONTAMINATION. THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE PRIOR TO THE LINE APPLICATION IN A MANNER AND TO THE EXTENT REQUIRED BY THE ENGINEER.

GLASS BEADS SHALL BE APPLIED IMMEDIATELY AFTER APPLICATION OF THE PAINT LINE.

EXCEPT WHEN USED AS A TEMPORARY MARKING, PAVEMENT MARKINGS SHALL ONLY BE APPLIED IN SEASONABLE WEATHER WHEN AIR TEMPERATURE IS 50 DEGREES FARHENHEIT OR HIGHER AND SHALL NOT BE APPLIED WHEN THE WIND OR OTHER CONDITIONS CAUSE A FILD OR DUST TO BE DEPOSITED ON THE PAVEMENT SURFACE AFTER CLEANING AND BEFORE THE MARKING MATERIAL CAN BE APPLIED.

THE FILLING OF TANKS, POURING OF MATERIALS OR CLEANING OF EQUIPMENT SHALL NOT BE PERFORMED ON UNPROTECTED PAVEMENT SURFACES UNLESS ADEQUATE PROVISIONS ARE MADE TO PREVENT SPILLAGE OF MATERIAL.

| PAVEMENT MARKING TABULATION | | |
|--|--------|----------------|
| ITEM | UNIT | TOTAL QUANTITY |
| 4" SOLID LINE WHITE - MULTI COMP | LIN FT | 5626 |
| 4" SOLID DOUBLE LINE YELLOW - MULTI COMP | LIN FT | 3235 |
| 24" SOLID LINE WHITE - PREFORMED THERMOPLASTIC (PMS)* | LIN FT | 24 |
| 24" SOLID LINE YELLOW - PREFORMED THERMOPLASTIC (PMS)* | LIN FT | 150 |
| 3'X6' ZEBRA CROSSWALK - PREFORMED THERMOPLASTIC | SQ FT | 126 |

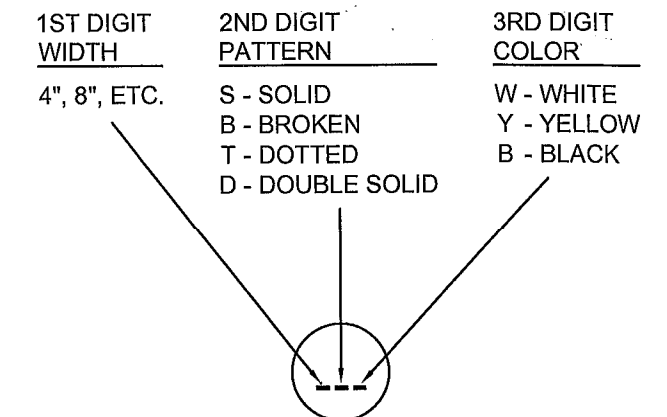
* PAVEMENT MARKING SPECIAL

SYMBOLS & MATERIALS LEGEND

- CROSSWALK BLOCK WHITE - POLY PREFORM
- ↩ PAVEMENT MESSAGE (LEFT ARROW) POLY PREFORM

STRIPING KEY

- CIRCLE - MULTI COMP
- △ TRIANGLE - PAINT
- SQUARE - POLY PREFORM THERMOPLASTIC
- ⬠ PENTAGON - REMOVABLE PREFORMED PLASTIC MARKING



EXAMPLE: (4SW) = SOLID LINE WHITE - MULTI COMP

- — BROKEN LINE - 50' CYCLE (10' LINE, 40' GAP)
- - - DOTTED LINE - 15' CYCLE (3' LINE, 12' GAP) UNLESS SHOWN OTHERWISE IN THE PLAN

| NO | DATE | BY | CKD | APPR | REVISION |
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| | | | | | |

NAME: P:\22-01-00\CSAH_11_(Quince-Juniper)\Base\Traffic\Perm Pvmt Mrkg Guide Notes 2021.dwg

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: SEAN R. THIEL DATE: 1/20/22
SIGNATURE: *Sean R. Thiel* LICENSE NO. 45129

DRAWN BY: TMV DATE: 01/05/22
DESIGN BY: DATE: _____
CHECKED BY: SRT DATE: 01/13/22



**ANOKA COUNTY
HIGHWAY DEPT.**

SAP 002-611-039

PERMANENT PAVEMENT
MARKING PLAN DETAILS

SHEET 18 OF 22 SHEETS

SIGN NOTES:
 (2) TEMPORARY TRAFFIC CONTROL SIGN

(---) CIRCLE - MULTI COMP

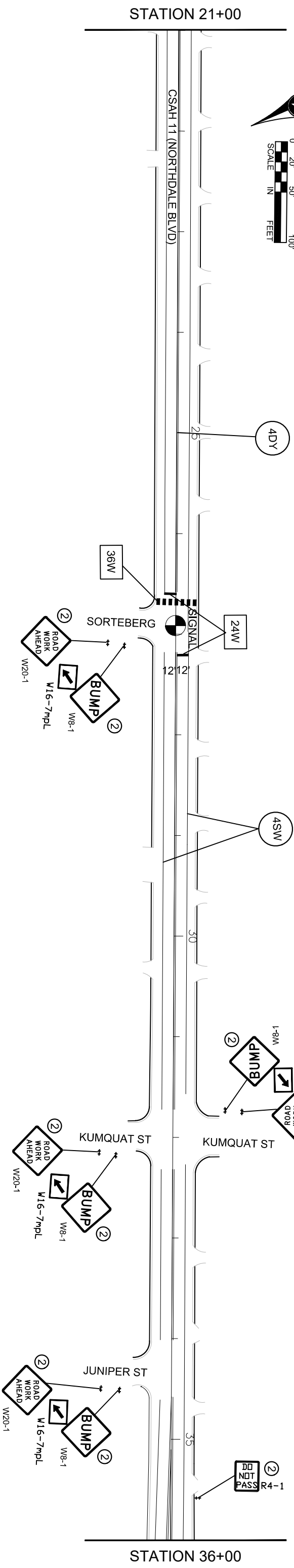
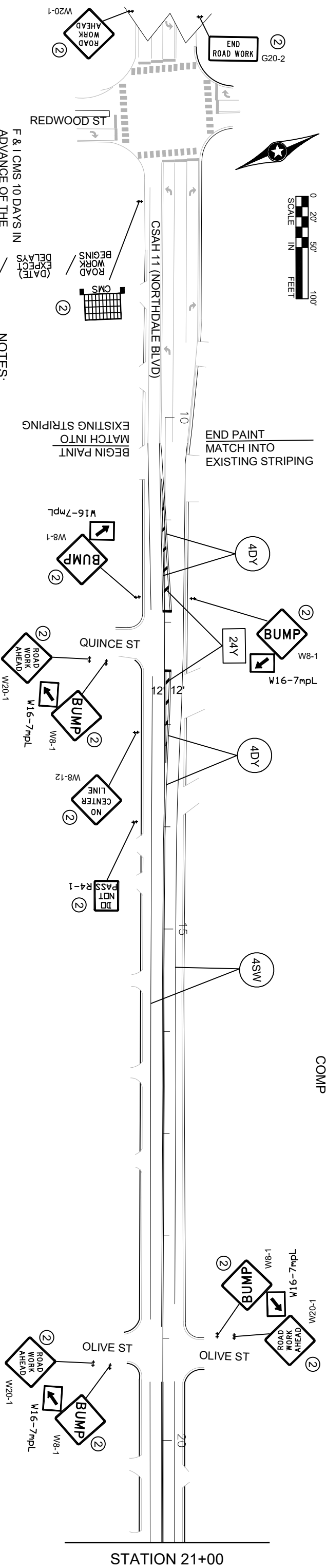
(---) SQUARE - POLY PREFORM

STRIPING KEY

F & I CMS 10 DAYS IN ADVANCE OF THE COMMENCEMENT OF WORK

NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
- CSAH 11 TO BE CLOSED BETWEEN REDWOOD ST AND ILEX ST. REFER TO CITY OF COON RAPIDS DETOUR PLAN FOR ROAD CLOSURE TRAFFIC CONTROL.
- CONTRACTOR SHALL COMPLY WITH THE LONGITUDINAL DROP-OFF GUIDELINES AS PER THE FIELD MANUAL.
- LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR SHALL SUPPLY AND PLACE THE PORTABLE CHANGEABLE MESSAGE SIGN (CMS) A MINIMUM TEN DAYS PRIOR TO ACTUAL COMMENCEMENT OF ROAD WORK, TO A LOCATION AS SPECIFIED BY THE ENGINEER. SIGNS TO BE REMOVED WHEN ROAD WORK BEGINS. PAYMENT SHALL BE MADE AS PER ITEM 2563.613 PORTABLE CHANGEABLE MESSAGE SIGN BY THE UNIT/DAY.
- CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING AND DETAILED IN THE SPECIAL PROVISIONS FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. ALL NECESSARY TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.
- ACCESS SHALL BE MAINTAINED TO ALL STREETS AND DRIVEWAYS IN CONSTRUCTION AREA.
- ALL PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.
- ANY REQUIRED PERMANENT SIGNING SHALL BE INSTALLED THE SAME DAY AS PERMANENT STRIPING.
- ALL EXISTING SIGNING SHALL REMAIN IN PLACE DURING CONSTRUCTION. ANY SALVAGED AND REINSTALLED SIGNS SHALL BE INSTALLED ON TEMPORARY SUPPORTS UNTIL THE PERMANENT INSTALLATION CAN BE MADE. THIS WILL BE CONSIDERED AS INCIDENTAL TO INSTALL SIGN TYPE C.



| NO | DATE | BY | CKD | APPR | REVISION |
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I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: JORGE R. BERNAL DELGADO
 SIGNATURE: *[Signature]*
 DATE: 03/15/2023
 LICENSE NO.: 57216

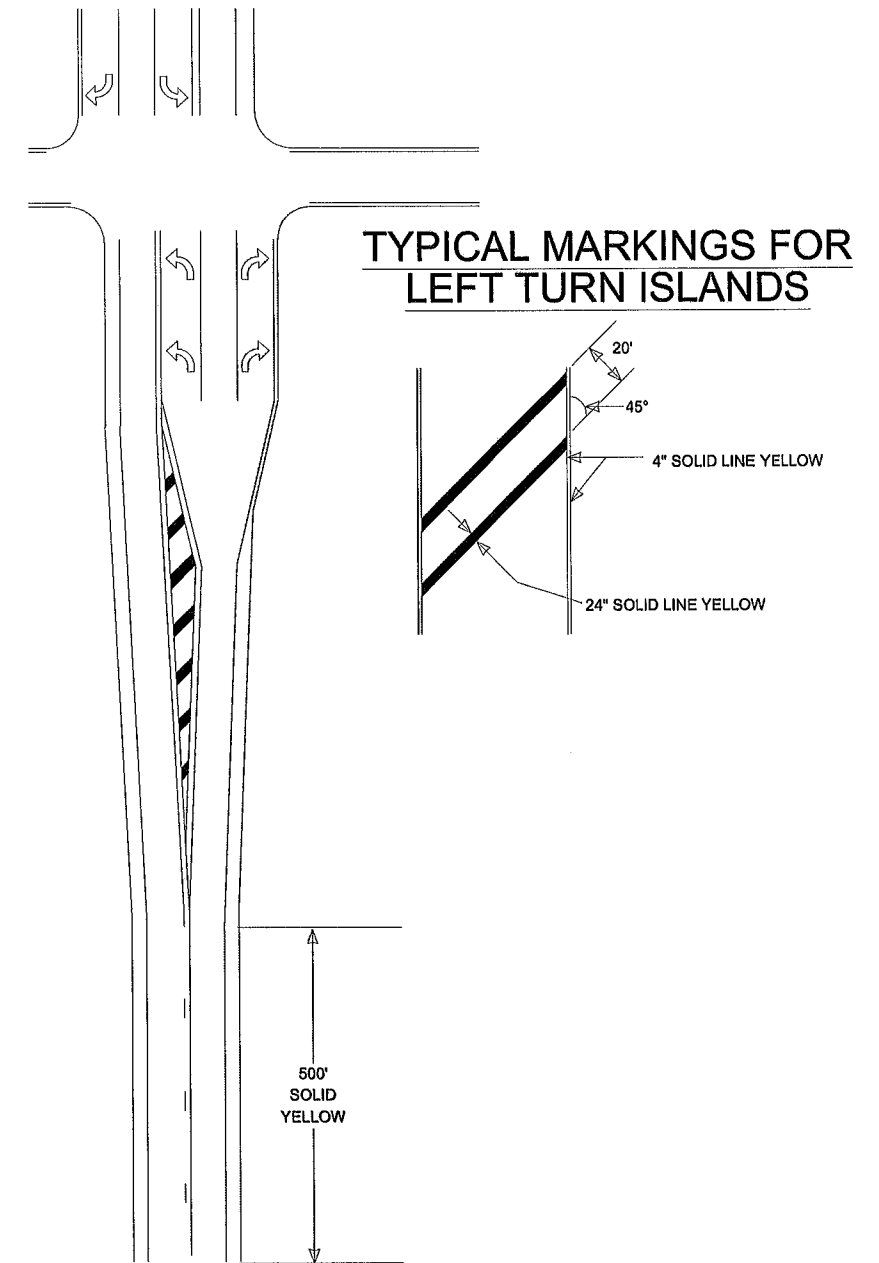
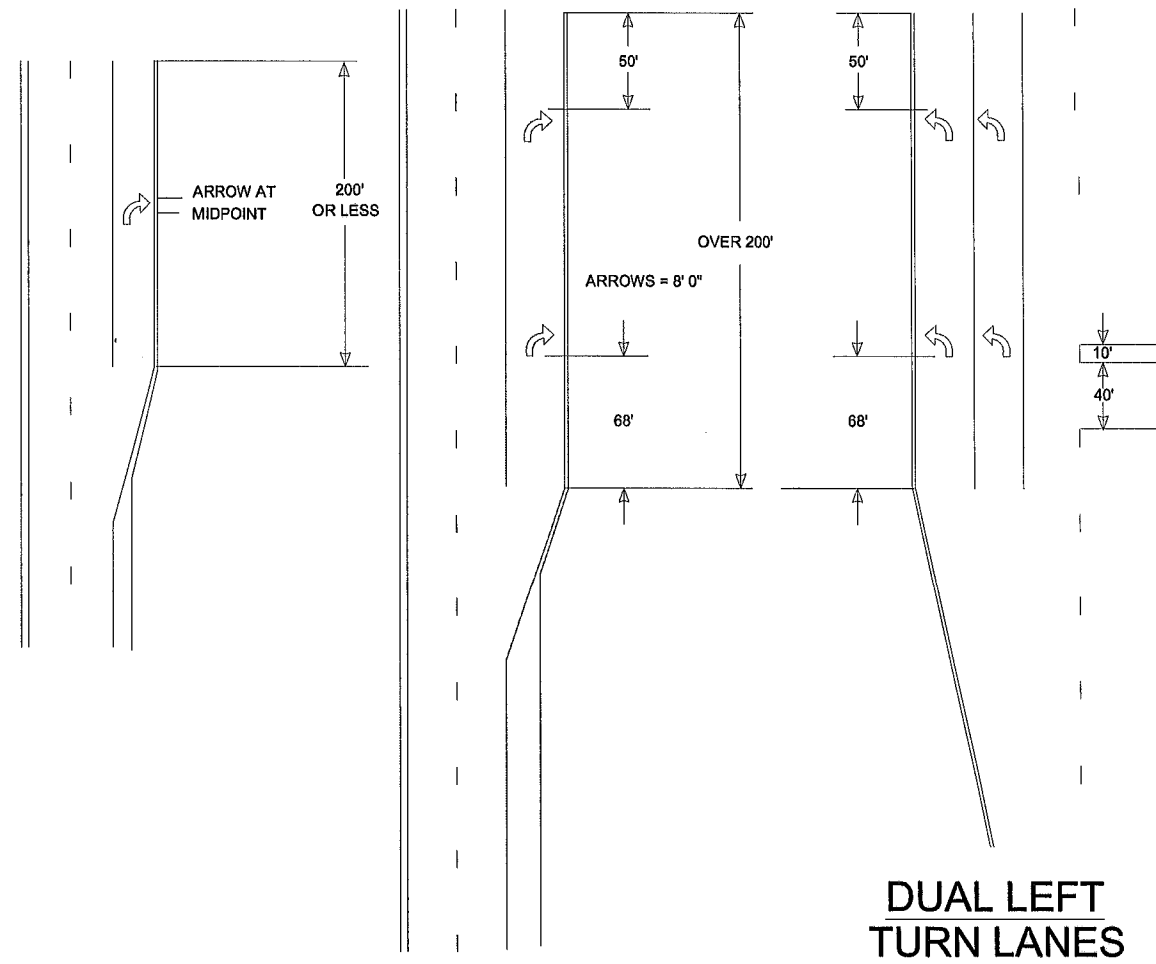
DRAWN BY: TMW DATE: 03/15/23
 DESIGN BY: TMW DATE: 03/15/23
 CHECKED BY: JRB DATE: 03/15/23



SAP 002-611-039

TEMPORARY SIGNING
 PERMANENT STRIPING
 SHEET 19 OF 22 SHEETS

TYPICAL MESSAGE PLACEMENT FOR TURN LANES



| NO | DATE | BY | CKD | APPR | REVISION |
|---|------|----|-----|------|----------|
| | | | | | |
| NAME: P:\22-01-00\CSAH 11_(Quince-Juniper)\Base\Traffic\Sign&Stripe_Details2019.dwg | | | | | |

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: SEAN R. THIEL DATE: 1/20/22

SIGNATURE: *Sean R. Thiel* LICENSE NO. 45129

DRAWN BY: TMV DATE: 01/05/22

DESIGN BY: DATE: _____

CHECKED BY: SRT DATE: 01/13/22



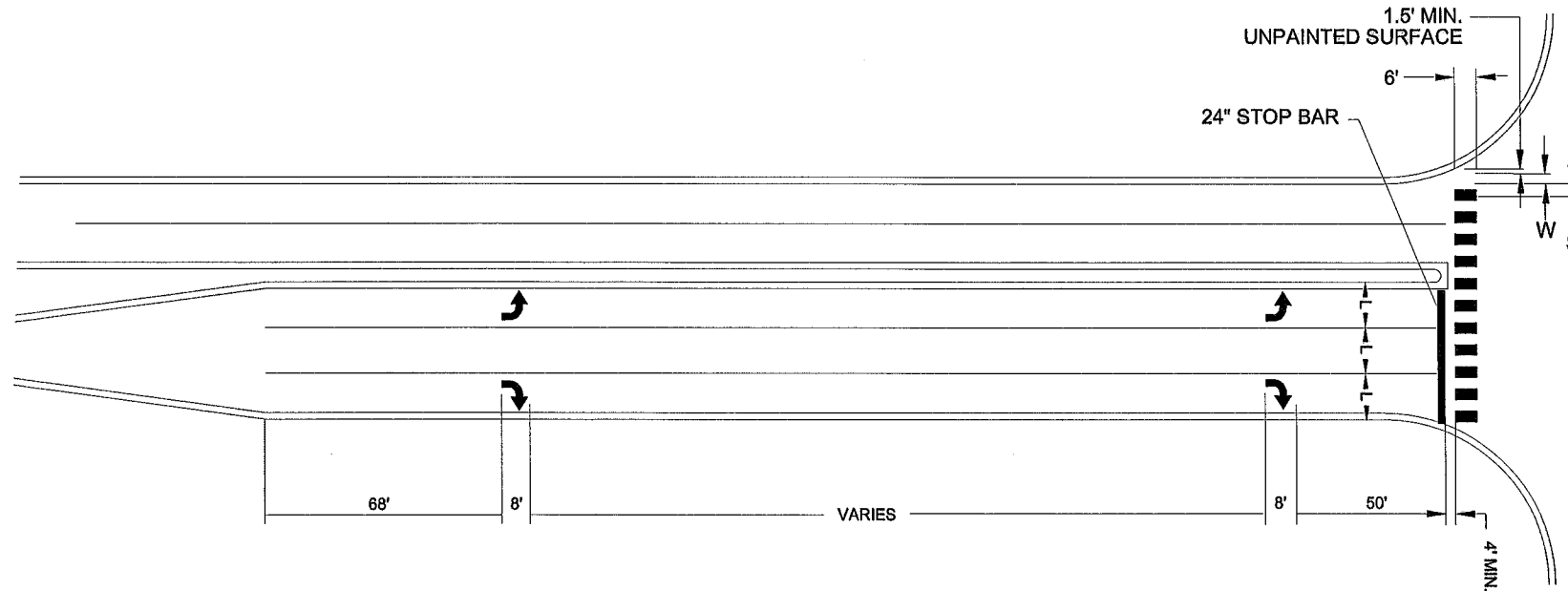
**ANOKA COUNTY
HIGHWAY DEPT.**

SAP 002-611-039

**SIGNING & STRIPING
DETAILS**

SHEET 21 OF 22 SHEETS

MARKINGS FOR PEDESTRIAN CROSSWALKS



| (L) | (W) | (S) |
|----------------------|------------------------|----------------|
| WIDTH OF INSIDE LANE | WIDTH OF PAINTED AREAS | WIDTH OF SPACE |
| 9' | 2.0' | 2.5' |
| 10' | 2.5' | 2.5' |
| 11' | 2.5' | 3.0' |
| 12' | 3.0' | 3.0' |
| 13' | 3.0' | 3.5' |

NOTES: CROSSWALKS:

- 1.) PAINTED AREAS ARE TO BE CENTERED ON CENTER AND LANE LINES, EVEN IF INTERSECTION IS NOT ALIGNED.
- 2.) LOCATION OF ZEBRA CROSSWALKS AND STOP BARS, SIGNAL LOOPS AND PED RAMPS ARE APPROXIMATE. FINAL LOCATIONS ARE TO BE DETERMINED AND FIELD VERIFIED DURING CONSTRUCTION BY THE FIELD ENGR.
- 3.) ZEBRA CROSSWALKS ARE TO BE PARALLEL TO THE DRIVING LANE OR LANES. EVEN IF THE STREET IS ON AN ANGLE TO THE INTERSECTION.
- 4.) A MIN. OF 1.5' (450mm) CLEAR DISTANCE MUST BE LEFT ADJACENT TO THE CURB. IF LAST PAINTED AREA FALLS INTO THIS AREA, IT MUST BE OMITTED.
- 5.) ON TWO LANE STREETS, USE SPACING SHOWN FOR AN 11' (3.3mm) INSIDE LANE.

| NO | DATE | BY | CKD | APPR | REVISION |
|----|------|----|-----|------|----------|
| | | | | | |

NAME: P:\22-01-00\CSAH 11_(Quince-Juniper)\Base\Traffic\Sign&Stripe_Details2019.dwg

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: SEAN R. THIEL DATE: 1/20/22
 SIGNATURE: *Sean R. Thiel* LICENSE NO. 45129

DRAWN BY TMV DATE 01/05/22
 DESIGN BY _____ DATE _____
 CHECKED BY SRT DATE 01/13/22



**ANOKA COUNTY
HIGHWAY DEPT.**

SAP 002-611-039

**SIGNING & STRIPING
DETAILS**

SHEET 22 OF 22 SHEETS

Certificate Of Completion

| | |
|--|--------------------------------|
| Envelope Id: 8AC60C81707F43A994DAE047024B20A9 | Status: Completed |
| Subject: Joshua Lindquist - ROW Permit Application | |
| Source Envelope: | |
| Document Pages: 56 | Signatures: 2 |
| Certificate Pages: 4 | Initials: 1 |
| AutoNav: Enabled | Envelope Originator: |
| Envelopeld Stamping: Enabled | Highway Permits |
| Time Zone: (UTC-06:00) Central Time (US & Canada) | Anoka County Government Center |
| | 2100 3rd Avenue |
| | Anoka, MN 55303 |
| | HighwayPermits@co.anoka.mn.us |
| | IP Address: 50.207.83.190 |


Record Tracking

| | | |
|--------------------------------------|-------------------------------|--------------------|
| Status: Original | Holder: Highway Permits | Location: DocuSign |
| 6/2/2023 10:05:23 AM | HighwayPermits@co.anoka.mn.us | |
| Security Appliance Status: Connected | Pool: StateLocal | |
| Storage Appliance Status: Connected | Pool: Anoka County | Location: DocuSign |

Signer Events

Joshua Lindquist
 jlindquist@meyerci.com
 Security Level:
 DocuSign.email
 ID: 1
 6/2/2023 10:05:25 AM

Signature

DocuSigned by:

 3FC0B5EC03DA4ED...
 Signature Adoption: Pre-selected Style
 Using IP Address: 50.207.83.190

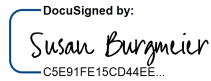
Timestamp

Sent: 6/2/2023 10:05:25 AM
 Viewed: 6/2/2023 10:05:34 AM
 Signed: 6/2/2023 10:13:34 AM

Electronic Record and Signature Disclosure:

Accepted: 6/2/2023 10:05:34 AM
 ID: aafc5a03-2342-4f08-adaf-c608c3c6efce

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: 6/2/2023 10:13:42 AM
 Viewed: 6/5/2023 11:09:48 AM
 Signed: 6/5/2023 11:50:15 AM

Electronic Record and Signature Disclosure:

Not Offered via DocuSign

| 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 Summary Events | Status | Timestamps |
|--------------------------------|------------------|----------------------|
| Envelope Sent | Hashed/Encrypted | 6/2/2023 10:05:25 AM |
| Envelope Updated | Security Checked | 6/2/2023 10:13:34 AM |
| Certified Delivered | Security Checked | 6/5/2023 11:09:48 AM |
| Envelope Updated | Security Checked | 6/5/2023 11:50:15 AM |
| Signing Complete | Security Checked | 6/5/2023 11:50:15 AM |
| Completed | Security Checked | 6/5/2023 11:50:15 AM |

| Payment Events | Status | Timestamps |
|-----------------------|---------------|-------------------|
|-----------------------|---------------|-------------------|

| 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

Required hardware and software

The minimum system requirements for using the DocuSign system may change over time. The current system requirements are found here: <https://support.docusign.com/guides/signer-guide-signing-system-requirements>.

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