

LEGEND

- BASELINE FOR DIMENSIONS
- PI POINT OF INTERSECTION
- PC POINT OF CURVATURE
- PCC POINT OF COMPOUND CURVATURE
- PROPOSED BUILDING STOOP - REFER TO ARCHITECTURAL PLANS
- SETBACK LINE
- PROPERTY LINE

NOTES

- REFER TO SHEET C3.01, GRADING AND DRAINAGE PLAN, FOR GENERAL NOTES.
- ALL APPLICABLE DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT, CENTERLINE OF FENCE, OR PROPERTY LINE UNLESS OTHERWISE NOTED.
- CHECK ALL PLAN AND DETAIL DIMENSIONS AND VERIFY SAME BEFORE FIELD LAYOUT.
- TRAFFIC SIGNS SHALL BE INSTALLED 18" BEHIND THE BACK OF CURB OR EDGE OF PAVEMENT.

REVISION SCHEDULE

NO.	DESCRIPTION	DATE
A4	ADDENDUM #4	4/14/2025

JLGarchitects

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**BOLTON & MENK**  
300 PERRYMAN LANE N, SUITE 200  
PLYMOUTH, MN 55447

CITY OF NORTHFIELD

**NORTHFIELD ICE ARENA**  
1900 CANNON RD, NORTHFIELD, MN 55057

DATE

03/25/2025

PHASE

100% CD

PROJECT

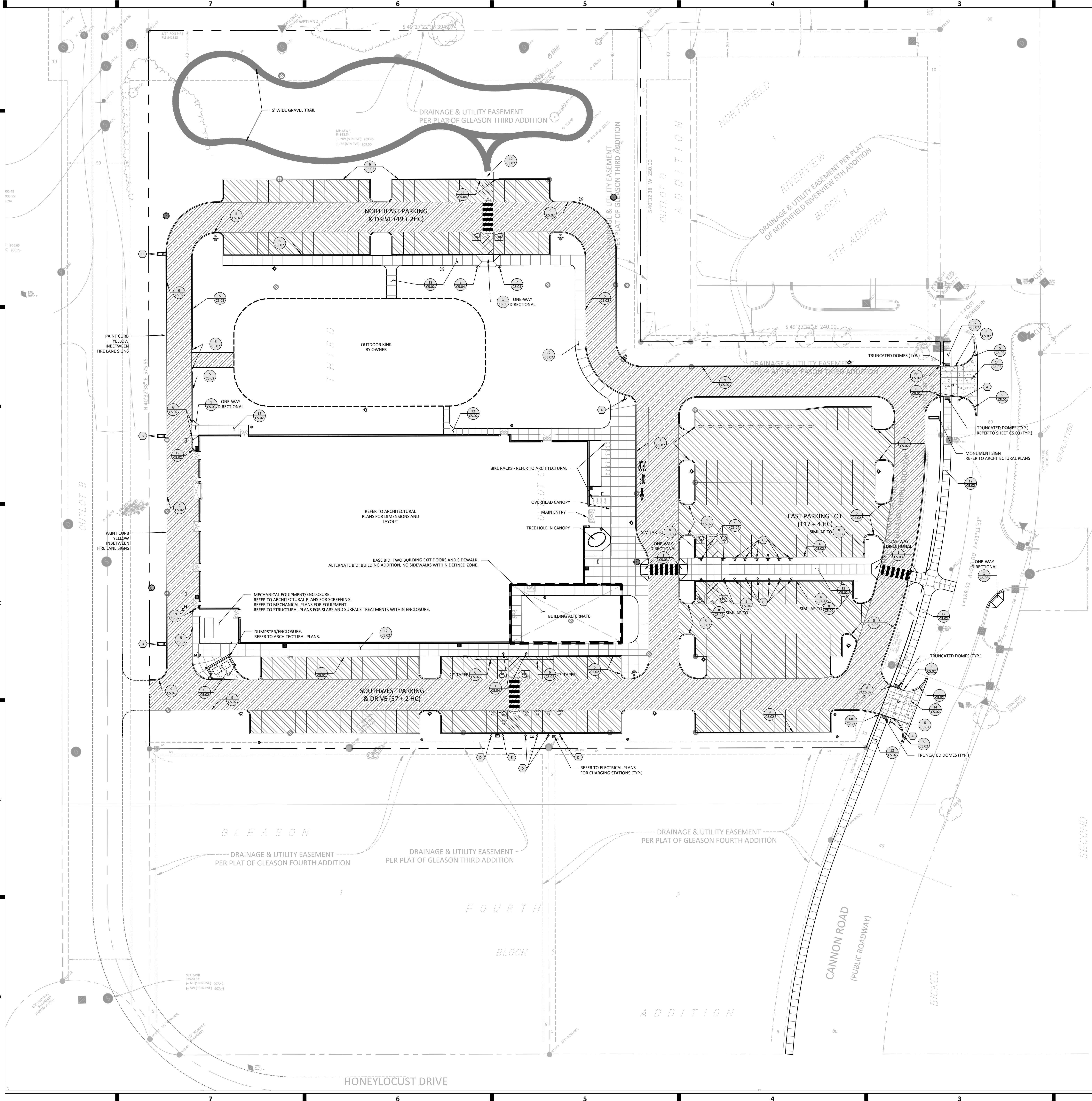
NORTHFIELD ICE ARENA

SHEET

GEOMETRIC PLAN

C1.01





LEGEND

- REFERENCE KEY TO SITE DETAILS  
DETAIL I.D. NUMBER (TOP)  
DETAIL SHEET NUMBER (BOTTOM)
- PROPOSED CONCRETE WALK  
PROPOSED CONCRETE SLAB  
PROPOSED MEDIUM DUTY ASPHALT PAVEMENT  
PROPOSED HEAVY DUTY ASPHALT PAVEMENT  
PROPOSED GRAVEL SURFACE
- PROPOSED TRAFFIC SIGN  
SIGNAGE KEY NOTE  
PROPOSED ACCESSIBLE SYMBOL  
PROPOSED MANHOLE (MH)  
PROPOSED CATCH BASIN (CB)  
PROPOSED HYDRANT (HYD)  
PROPOSED GATE VALVE (GV)  
PROPOSED BUILDING STOOP - REFER TO ARCHITECTURAL PLANS  
PROPOSED LIGHT POLE - REFER TO ELECTRICAL PLANS  
EV CHARGING STATION - REFER TO ELECTRICAL PLANS  
PROPERTY LINE

NOTES

- REFER TO SHEET C3.01, GRADING AND DRAINAGE PLAN, FOR GENERAL NOTES.
- CHECK ALL PLAN AND DETAIL DIMENSIONS AND VERIFY SAME BEFORE FIELD LAYOUT.
- TRAFFIC SIGNS SHALL BE INSTALLED 18" BEHIND THE BACK OF CURB OR EDGE OF PAVEMENT.
- ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD, WHICH ARE NOT DESIGNATED TO BE PAVED, SHALL RECEIVE AT LEAST 6" OF TOPSOIL AND SHALL BE SEEDED. ALL AREAS NOT DESIGNATED FOR A SPECIFIC SEED MIX, WHICH ARE DISTURBED BY CONSTRUCTION, SHALL BE SEEDED WITH SEED MIX #1.
- FAILURE OF TURF DEVELOPMENT: IN THE EVENT THE CONTRACTOR FAILS TO PROVIDE AN ACCEPTABLE TURF, RE-SEED ALL APPLICABLE AREAS, AT NO ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER OR LANDSCAPE ARCHITECT.

PARKING STATISTICS

MAXIMUM STALL COUNT (PROPOSED BUILDING AND OUTDOOR RINK): 210 STALLS  
MAXIMUM STALL COUNT WITH FUTURE 2ND ICE SHEET BUILDING EXPANSION: 252 STALLS  
PROPOSED PARKING COUNTS = 232 STALLS

BICYCLE REQUIRED PARKING = 19 STALLS  
PROPOSED BICYCLE PARKING = 26 STALLS

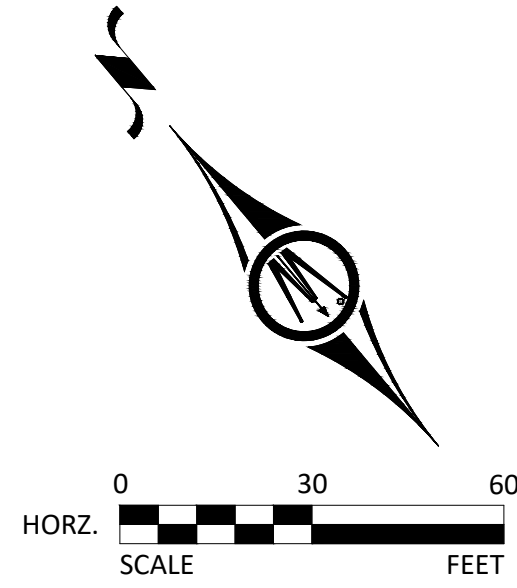
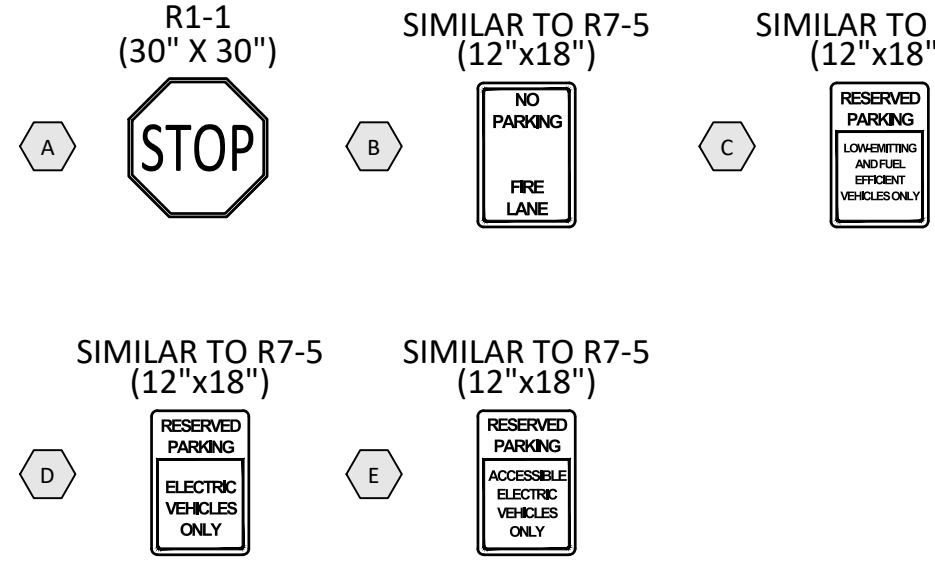
ACCESSIBLE PARKING STALL REQUIREMENTS = 7 STALLS  
ACCESSIBLE PARKING STALLS PROVIDED = 8 STALLS

ELECTRIC VEHICLE STALLS REQUIREMENTS (2%) = 4.64 STALLS  
ELECTRIC VEHICLE STALLS PROVIDED = 6 STALLS

ELECTRIC VEHICLE PREFERRED PARKING (5%) = 11.6 STALLS  
ELECTRIC VEHICLE PREFERRED PARKING PROVIDED = 12 STALLS

COMPACT VEHICLE REQUIRED (5%) = 11.6 STALLS  
COMPACT VEHICLE PROVIDED = 12 STALLS

SIGNAGE KEY NOTES



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REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
A2	ADDENDUM #2	4/4/2025
A4	ADDENDUM #4	4/14/2025

CITY OF NORTHFIELD  
**NORTHFIELD ICE ARENA**  
1900 CANNON RD, NORTHFIELD, MN 55057

DATE  
**03/25/2025**

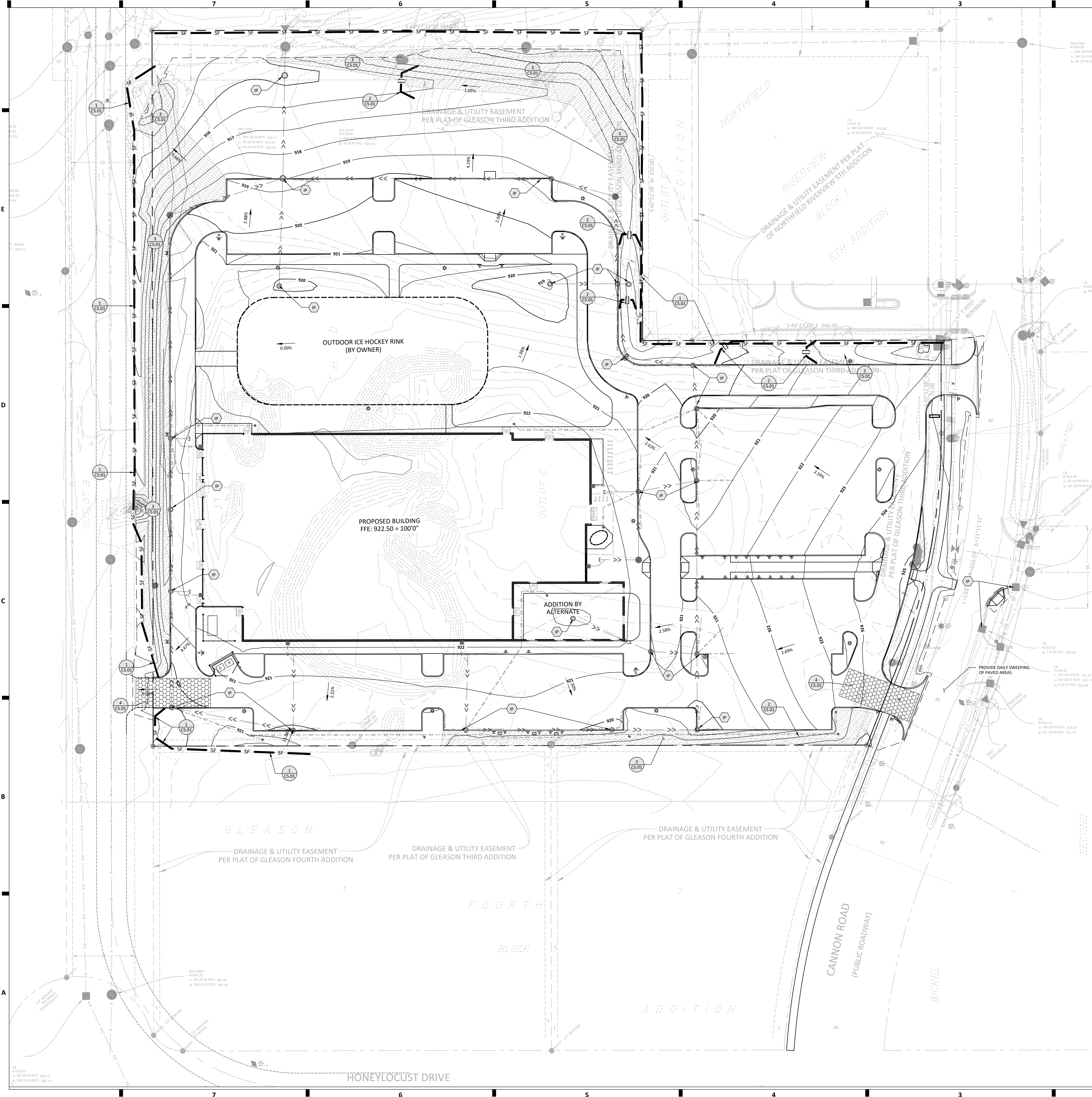
PHASE  
**100% CD**

PROJECT  
**NORTHFIELD ICE ARENA**

SHEET  
**FINISHING PLAN**

**C1.02**





LEGEND

- REFERENCE KEY TO SITE DETAILS  
DETAIL I.D. NUMBER (TOP)  
DETAIL SHEET NUMBER (BOTTOM)
- EXISTING CONTOUR  
PROPOSED CONTOUR  
PROPOSED GRADING LIMITS  
PROPOSED STORM SEWER  
PROPOSED DRAIN TILE (DT) / SUBSURFACE DRAINS (SD)  
PROPOSED MANHOLE (MH)  
PROPOSED CATCH BASIN (CB)  
INLET PROTECTION DEVICE AT STORM SEWER INLET  
PROPOSED SILT FENCE  
PROPOSED SEDIMENT CONTROL LOG  
PROPOSED ROCK CONSTRUCTION ENTRANCE  
PROPOSED EROSION CONTROL BLANKET  
PROPOSED BUILDING STOOP - REFER TO ARCHITECTURAL PLANS  
PROPERTY LINE

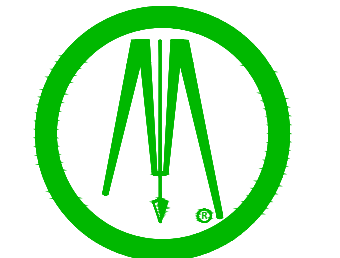
NOTES

- REFER TO SHEET C3.01, GRADING AND DRAINAGE PLAN, FOR GENERAL NOTES.
- REFER TO SHPPP NARRATIVE, SHEET C2.03, FOR CONSTRUCTION SEQUENCING AND EROSION CONTROL REQUIREMENTS.
- MAINTAIN ADJACENT PROPERTY AND PUBLIC STREETS CLEAN FROM CONSTRUCTION CAUSED DIRT AND DEBRIS ON A DAILY BASIS. PROTECT DRAINAGE SYSTEMS FROM SEDIMENTATION AS A RESULT OF CONSTRUCTION RELATED DIRT AND DEBRIS.
- MAINTAIN DUST CONTROL DURING GRADING OPERATIONS.
- ALL EROSION CONTROL METHODS SHALL COMPLY WITH MPCA AND OTHER LOCAL REGULATIONS.
- IF EROSION AND SEDIMENT CONTROL MEASURES TAKEN ARE NOT ADEQUATE AND RESULT IN DOWNSTREAM SEDIMENTATION, CLEAN OUT DOWNSTREAM STORM SEWERS AND OTHER CONVEYANCE DEVICES AS NECESSARY, INCLUDING ASSOCIATED RESTORATION.
- INLET PROTECTION DEVICE AT STORM SEWER INLETS. AT THE INLETS TO ALL STORM SEWER STRUCTURES, PROVIDE A PRODUCT FROM THE FOLLOWING LIST OF APPROVED PRODUCTS:
  - a. ROAD DRAIN "TOP SLAB", MANUFACTURED BY WIMCO
  - b. ROAD DRAIN "CURB & GUTTER", MANUFACTURED BY WIMCO
  - c. INFASAFE "SEDIMENT CONTROL BARRIER", MANUFACTURED BY ROYAL ENVIRONMENTAL SYSTEMS, INC.
  - d. INFASAFE "DEBRIS COLLECTION DEVICE", MANUFACTURED BY ROYAL ENVIRONMENTAL SYSTEMS, INC.
  - e. DANDY SACK, MANUFACTURED BY DANDY PRODUCTS, INC.
  - f. DANDY CURB SACK, MANUFACTURED BY DANDY PRODUCTS, INC.
  - g. OR APPROVED EQUAL.
- PRIOR TO CONSTRUCTION, DELINEATE TURF AND VEGETATED AREAS NOT TO BE DISTURBED WITH ORANGE SNOW FENCE. DO NOT ALLOW CONSTRUCTION TRAFFIC, EQUIPMENT, OR MATERIALS TO UTILIZE, ACCESS, OR OTHERWISE ENTER THE DELINEATED AREAS. MINIMIZE SOIL COMPACTION AND DISRUPTION OF TOPSOIL IN AREAS OUTSIDE THE CONSTRUCTION LIMITS TO COMPLY WITH THE MN CONSTRUCTION STORMWATER PERMIT.



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I hereby certify that this plan,  
specification, or report was prepared  
by me or under my direct supervision  
and that I am a duly licensed  
Professional Engineer under the laws  
of the State of Minnesota

Matthew J. Isakson

59553

REVISION SCHEDULE

NO.	DESCRIPTION	DATE
A2	ADDENDUM #2	4/4/2025

CITY OF NORTHFIELD  
**NORTHFIELD ICE ARENA**  
1900 CANNON RD, NORTHFIELD, MN 55057

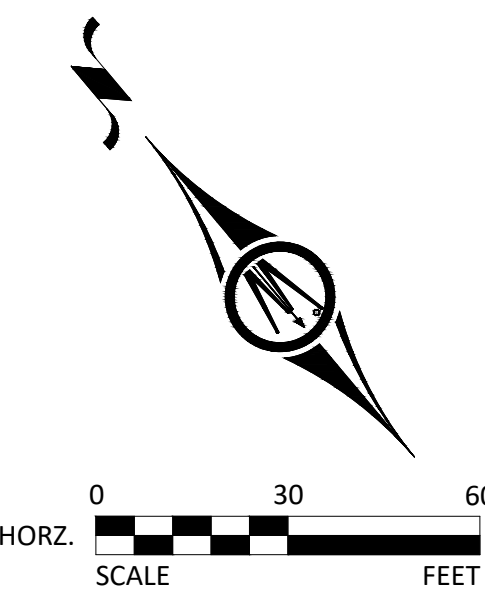
DATE  
**03/25/2025**

PHASE  
**100% CD**

PROJECT  
**NORTHFIELD ICE ARENA**

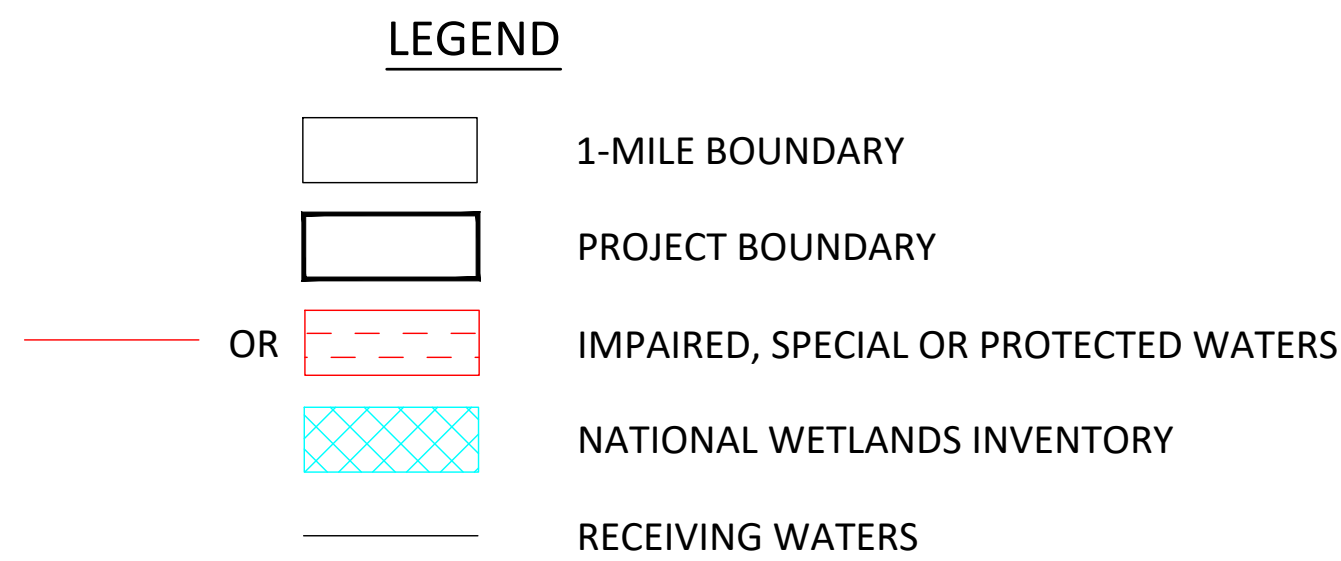
SHEET  
**EROSION AND  
SEDIMENT  
CONTROL PLAN**

**C2.01**





**NORTHFIELD ICE ARENA**  
CITY OF NORTHFIELD  
RICE COUNTY, MINNESOTA



The Contractor and Owner will be joint applicants under the MPCA's General Stormwater Permit for Construction Activity as required by the National Pollutant Discharge Elimination System (NPDES) Phase II program.

A Construction SWPPP Manager must be available for an on-site inspection within 72 hours upon request by the MPCA.

	COMPANY	CONTACT PERSON	PHONE
OWNER:	Northfield Hockey Association	Dave Bennett	507-645-3006
SWPPP DESIGNER:	Bolton & Menk, Inc.	Paul Strong	651-247-8789
CONTRACTOR:	TBD	TBD	TBD
CONSTRUCTION SWPPP MANAGER:	TBD	TBD	TBD
PARTY RESPONSIBLE FOR LONG TERM O&M:	City of Northfield	Jayson Dwelle	507-645-3034

Payment for all work associated with Erosion and Sediment Control shall be as described in the Project Manual. Unless otherwise authorized by the Owner no additional payment shall be made for any work required to administer and maintain the site erosion and sediment control in compliance with the Minnesota Pollution Control Agency (MPCA) - General Stormwater Permit for Construction Activity (MN R100001) including but not limited to inspection, maintenance, and removal of BMPs or addition of BMPs to accommodate Contractor phasing.

Permittees must make the SWPPP, including all inspection reports, maintenance records, training records and other information required by this permit, available to federal, state, and local officials within three (3) days upon request for the duration of the permit and for three (3) years following the NOT.

1. The expected amount, frequency, intensity, and duration of precipitation.
2. The nature of stormwater runoff and run-on at the site
3. Peak flow rates and stormwater volumes to minimize erosion at outlets and downstream channel and stream bank erosion.
4. The range of soil particle sizes expected to be present on the site.

<b>PROJECT AREAS:</b>		
Total Project Size (disturbed area) =	7.0220	ACRES
Existing area of impervious surface =	0.0000	ACRES
Post construction area of impervious surface =	3.1620	ACRES
Total new impervious surface area created =	3.1620	ACRES

Planned Construction Start Date:	<u>5/15/2025</u>
Estimated Construction Completion Date:	<u>9/1/2026</u>

Type of storm water management used if more than 1 acre of new impervious surface is created:

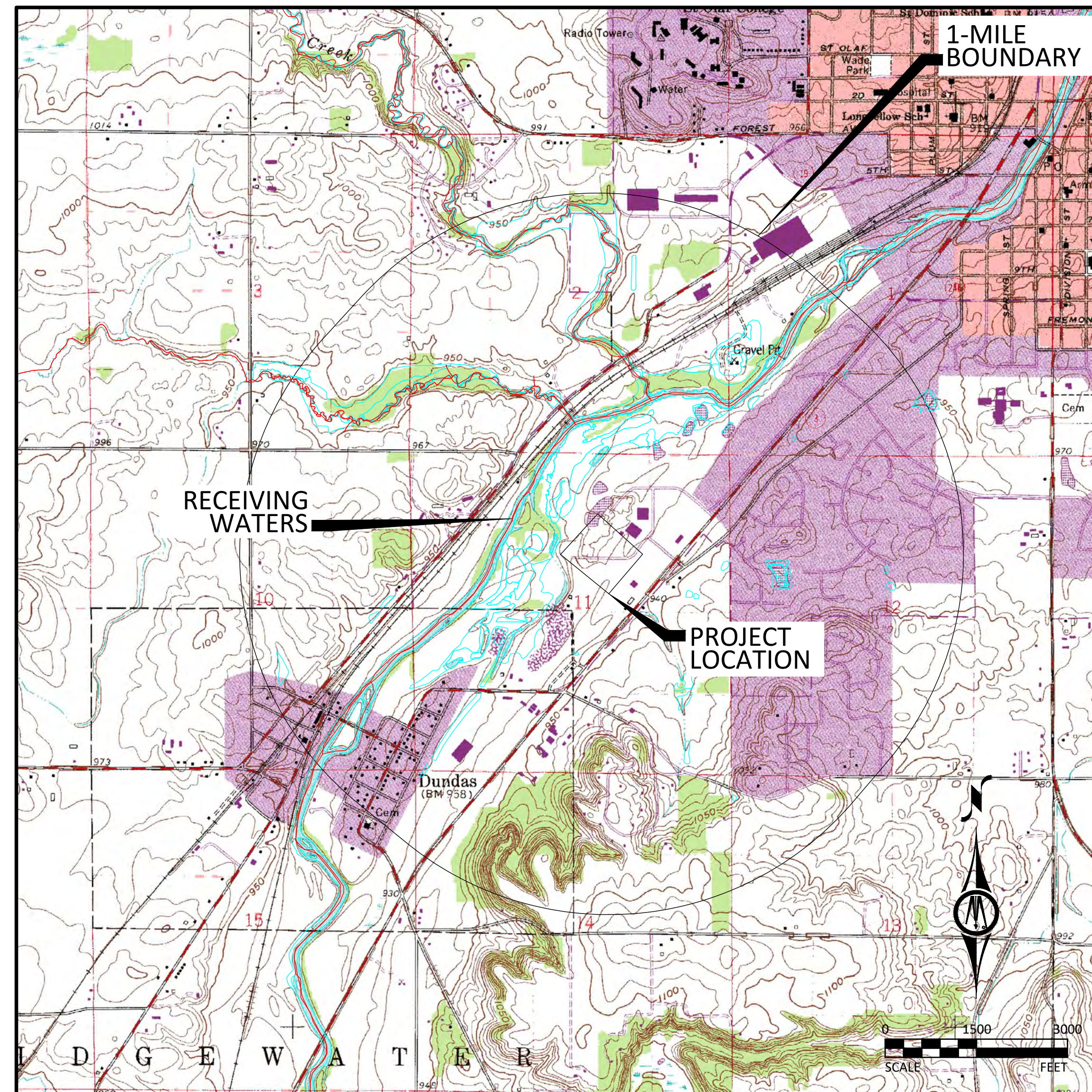
	Wet Sedimentation Basin
	Infiltration/Filtration
X	Regional Pond
	Permanent Stormwater Management Not Required

COUNTY	TOWNSHIP	RANGE	SECTION	LATITUDE	LONGITUDE
RICE	T111N	R20W	11	44.4377°	-93.1895°

[illegible]

Construction activities include: Reconstructing the site mass grading, temporary erosion and sediment control, utility installation, parking lot and building construction, and permanent stabilization.

This project includes the following stormwater management BMPs; none



Receiving waters, including surface water, wetlands, Public Waters, and stormwater ponds, within 1-mile of the project boundary are identified on the USGS 7.5 min quad map above. Receiving waters that are impaired, the impairment, and WLA are listed as follows. All specific BMPs relative to construction activities listed in the permit for special, prohibited, restricted, or impaired have been incorporated into this plan. All specific BMPs listed in approved TMDLs and those BMPs listed for construction related waste load allocations have also been incorporated.


NAME OF WATER BODY	TYPE (ditch, pond, wetland, lake, etc.)	Special, Prohibited, Restricted Water <sup>1</sup>	Flows to Impaired Water Within 1-Mile <sup>2</sup>	USEPA Approved Construction Related TMDL <sup>3</sup>
CANNON RIVER	RIVER	NO	YES	YES

<sup>2</sup> Identified as impaired under section 303 (d) of the federal Clean Water Act for phosphorus, turbidity, TSS, dissolved oxygen, and/or aquatic biota.

<sup>3</sup> Construction Related TMDLs include those related to: phosphorus, turbidity, TSS, dissolved oxygen, and/or aquatic biota.

**IMPLEMENTATION SCHEDULE AND PHASING:** The Contractor is required to provide an updated schedule and site management plan meeting the minimum requirements of Section 1717 of the Minnesota Standard Specifications for Construction.

- 1) Submit SWPPP Updates to Engineer. Submittal shall include any requested changes to the SWPPP, including but not limited to: Trained Personnel, Locations for Stockpiles, Concrete Washout, Sanitation Facilities, Types and Locations of Erosion & Sediment Control. Failure to submit updates shall be considered acceptance of the SWPPP as designed with no changes.
- 2) Install perimeter sediment control, inlet protection, and construction exit.
- 3) Complete removals
- 4) Install utilities
- 5) Complete site grading
- 6) Add additional temporary BMPs as necessary during construction based on inspection reports.
- 7) Install structure and parking areas
- 8) Ensure final stabilization measures are complete.
- 9) Provide digital copy of all Field SWPPP Documentation including Inspection Reports and SWPPP Revisions to the Owner.
- 10) Submit Notice of Termination (NOT) to MPCA. NOTE: The NOT must be submitted to MPCA before Final Stabilization is considered complete.

  
Matthew J. Isakson

59553

[illegible]

DATE  
03/25/2025

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PHASE  
100% CD

PROJECT  
NORTHFIELD ICE ARENA  
SHEET  
SWPPP PLAN

C2.02



Information contained in this SWPPP narrative sheet summarizes requirements of the GENERAL PERMIT AUTHORIZATION TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM PROGRAM - Permit No: MN RI0000I (Permit) as they apply to this project. All provisions of the Permit including those not specifically cited herein shall apply to this project. The Contractor is responsible to be familiar with and comply with all conditions of the permit. The full text of the Permit is available at: <https://www.pca.state.mn.us/sites/default/files/wq-strm2-80a.pdf>

SWPPP AMENDMENTS AND SUBMITTALS

Contractor must prepare and submit to the Engineer a SWPPP amendment as necessary to include additional Best Management Practices (BMPs) to correct problems identified or address the following situations.

- Contact information and training documentation for Construction SWPPP Manager and BMP Installer,
- There is a change in construction method of phasing, operation, maintenance, weather or seasonal conditions not anticipated during the design of the SWPPP including but not limited to:
  - Types and/or Locations of BMPs
  - Material Storage and Spill Response
  - Fueling Plans
  - Locations for Stockpiles, Concrete Washout, and Sanitation Facilities and
  - Project Phasing
- It is determined that the SWPPP is not achieving objectives of minimizing pollutants in stormwater discharges associated with construction activity, or
- The SWPPP is not consistent with the terms and conditions of the permit.

The Contractor may implement SWPPP amendments immediately and is not required to wait for Engineer review of the submittal. The responsibility for completeness of SWPPP amendments and compliance with the Permit lies with the Contractor. Review, comment, or lack of comment by the Engineer on a SWPPP amendment shall not absolve the responsibilities of the Contractor in any way.

If a change order is issued for a design change the SWPPP amendment will be prepared by the Engineer and included in the change order.

In addition to SWPPP amendments, the Contractor shall submit to the Engineer Weekly Erosion and Sediment Control Schedule meeting the requirements of MnDOT 1717.

The Contractor shall keep copies of all SWPPP amendments, Weekly Erosion and Sediment Control Schedules, inspection logs, and maintenance logs with the field copy of the SWPPP. A PDF copy of these documents will be provided along with a copy of the final Field Copy of the SWPPP to the Engineer along with the signed Notice of Termination when final stabilization is complete.

EROSION PREVENTION PRACTICES

Stormwater conveyance channels shall be routed around unstabilized areas. Erosion controls and velocity dissipation devices shall be used at outlets within and along the length of any constructed conveyance channel.

The normal wetted perimeter of all ditches or swales, including storm water management pond slopes, that drain waters from the site must be stabilized within 200' of any property edge or discharge point, including storm sewer inlets, within 24 hours of connection.

Temporary or permanent ditches or swales used as sediment containment during construction do not need to be stabilized during temporary period of use and shall be stabilized within 24 hours after no longer used as sediment containment.

Mulch, hydromulch, tackifier, or similar practice shall not be used in any portion of the wetted perimeter of a temporary or permanent drainage ditch or swale section with a continuous slope of greater than 2 percent.

Energy dissipation shall be installed at all temporary or permanent pipe outlets within 24 hours of connection to a surface water or permanent stormwater treatment system.

The Contractor shall phase construction and use construction methods to the extent practical to minimize exposed soils. The project phasing shall be documented in the Weekly Erosion and Sediment Control Schedule.

SEDIMENT CONTROL PRACTICES

Down gradient BMPs including perimeter BMPs must be in place before up gradient land- disturbing activities begin and shall remain in place until final stabilization.

All BMPs that have been adjusted or removed to accommodate short-term activities shall be re-installed or replaced the earlier of the end of the work day or before the next precipitation event even if the activity is not complete.

Inlet BMPs may be removed for specific safety concerns. The BMPs shall be replaced as soon as the safety concern is resolved. The removal shall be documented in the SWPPP as a SWPPP amendment.

Temporary stockpiles must have sediment control BMPs. The Contractor shall prepare and submit to the Engineer a SWPPP amendment showing the location of temporary stockpiles and the BMPs for each stockpile. The SWPPP amendment must meet the minimum requirements of Section 9 of the Permit.

Soil compaction shall be minimized and topsoil shall be preserved, unless infeasible or if construction activities dictate soil compaction or topsoil stripping.

The use of polymers, flocculants, or other sedimentation treatment chemicals are not proposed as part of this SWPPP as designed by the Engineer. If methods or phasing of construction require the use of any of these chemicals, the Contractor shall prepare and submit to the Engineer a SWPPP amendment that meets the minimum requirements of Section 9 of the Permit.

TEMPORARY SEDIMENTATION BASINS

A temporary sedimentation basin has not been included in this SWPPP as designed by the Engineer. If a basin is later determined to be desirable or necessary the Contractor shall prepare and submit to the Engineer a SWPPP amendment. Temporary sedimentation basins shall meet or exceed the minimum requirements of Section 14 of the Permit and shall include a basin draining plan meeting or exceeding the minimum requirements of Section 10 of the Permit. Where the site discharges to Special and/or Impaired Waters the SWPPP amendment shall also meet or exceed the minimum requirements of Section 23 of the permit.

DEWATERING

A dewatering plan has not been included in this SWPPP as designed by the Engineer. If dewatering is required for this project, the Contractor shall prepare and submit to the Engineer a SWPPP amendment. All dewatering shall meet or exceed the minimum requirements of Section 10 of the Permit.

POLLUTION PREVENTION

Products and materials that have the potential to leach pollutants that are stored on the site must be stored in a manner designed to minimize contact with stormwater. Materials that are not a source of potential contamination to stormwater or that are designed for exposure to stormwater are not required to be covered.

Hazardous materials including but not limited to pesticides, fertilizer, petroleum products, curing compounds and toxic waste must be properly stored and protected from stormwater exposure as recommended by the manufacturer in an access restricted area.

Solid waste must be stored, collected and disposed of in compliance with Minnesota Administrative Rules Chapter 7035.

Portable toilets must be positioned so that they are secure and will not be tipped or knocked over. Sanitary waste must be disposed of properly in accordance with Minn. R. CH 7041.

Exterior vehicle or equipment washing on the project site shall be limited to a defined area of the site. No engine degreasing is allowed on site. A sign must be installed adjacent to each washout facility that requires site personnel to utilize the proper facilities for disposal of concrete and other washout wastes.

The Contractor shall prepare and submit a SWPPP amendment detailing the location and BMPs proposed for storage of materials, solid waste, portable toilets, and exterior vehicle or equipment washing on the site. The SWPPP amendment shall include a spill prevention and response plan that is appropriate for the materials proposed to be on the site. The SWPPP amendment shall meet or exceed the minimum requirements of Section 12 of the Permit.

INSPECTION & MAINTENANCE

A trained person shall routinely inspect the entire construction site at the time interval indicated on this sheet of the SWPPP during active construction and within 24-hours after a rainfall event greater than 0.5 inches in 24 hours. Following an inspection that occurs within 24-hours after a rainfall event, the next inspection must be conducted at the time interval indicated in the Receiving Waters Table found on the SITE PLAN AND INFORMATION SHEET of the SWPPP.

All inspections and maintenance conducted during construction must be recorded on the day it is completed and must be retained with the SWPPP. Inspection report forms are available in the Project Specifications. Inspection report forms other than those provided shall be approved by the engineer.

The Contractor may request a change in inspection schedule for the following conditions:

- Inspections of areas with permanent cover to be reduced to once per month,
- Inspections of areas that have permanent cover and have had no construction activity for 12 months to be suspended until construction resumes,
- Inspections of areas where construction is suspended due to frozen ground conditions, inspections to be suspended until the earlier of within 24 hours of runoff occurring, or upon resuming construction.

No change in inspection schedule shall occur until authorized by the Engineer.

Inspections must include:

- All erosion prevention and sediment control BMPs and Pollution Prevention Management Measures to ensure integrity and effectiveness.
- Surface waters, including drainage ditches and conveyance systems for evidence of erosion and sediment deposition.
- Construction site vehicle exit locations, streets and curb and gutter systems within and adjacent to the project for sedimentation from erosion or tracked sediment from vehicles.
- Infiltration areas to ensure that no sediment from ongoing construction activity is reaching the infiltration area and that equipment is not being driven across the infiltration area.

All non-functioning BMPs and those BMPs where sediment reaches one-half (1/2) of the depth of the BMP, or in the case of sediment basins one-half (1/2) of the storage volume, must be repaired, replaced, or supplemented by the end of the next business day after discovery, or as soon as field conditions allow.

Permittees must repair, replace or supplement all nonfunctional BMPs with functional BMPs by the end of the next business day after discovery, or as soon as field conditions allow.

Any sediment that escapes the site must be removed and the area stabilized within 7 calendar days of discovery unless precluded by legal, regulatory, or physical access in which case the work shall be completed within 7 calendar days of authorization. Paved surfaces such as streets shall have any escaped or tracked sediment removed by the end of the day that it is discovered. Sediment release, other than paved surfaces that can be cleaned up with street sweeping shall be reported immediately upon discovery to the Engineer.

PUBLIC WATER RESTRICTIONS:

For public waters that have been promulgated "work in water restrictions" during fish spawning time frames, all exposed soil areas that are within 200 feet of the water's edge, and drain to these waters must complete stabilization within 24-hours during the time period. MN DNR permits are not valid for work in waters that are designated as infested waters unless accompanied by an Infested Waters Permit or written notification has been obtained from MN DNR stating that such permit is not required. There is no exception for pre-existing permits. If a MN DNR Permit has been issued for the project and the water is later designated as infested, the Contractor shall halt all work covered by the MN DNR Permit until an Infested Waters Permit is obtained or that written notification is obtained stating that such permit is not required.

FINAL STABILIZATION

Final Stabilization is not complete until all the following requirements have been met:

- Substantial Completion has been reached and no ground disturbing activities are anticipated.
- Permanent cover has been installed with an established minimum uniform perennial vegetation density of 70 percent of its expected final growth. Vegetation is not required in areas where no vegetation is proposed by this project such as impervious surfaces or the base of a sand filter.

- Accumulated sediment has been removed from all permanent stormwater treatment systems as necessary to ensure the system is operating as designed.
- All sediment has been removed from conveyance systems
- All temporary synthetic erosion prevention and sediment control BMPs have been removed. BMPs designated on the SWPPP to remain to decompose on-site may remain.
- For residential construction only, permit coverage terminates on individual lots if the structures are finished and temporary erosion prevention and downgradient perimeter control is complete, the residence sells to the homeowner, and the permittee distributes the MPCA's "Homeowner Fact Sheet" to the homeowner.
- For agricultural land only (e.g., pipelines across cropland), the disturbed land must be returned to its preconstruction agricultural use prior to submitting the NOT.

SITE STABILIZATION COMPLETION:

Stabilization of exposed soils shall begin immediately and shall be completed after the construction activity has temporarily or permanently ceased no later than:	7 calendar days
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SITE INSPECTION INTERVAL:

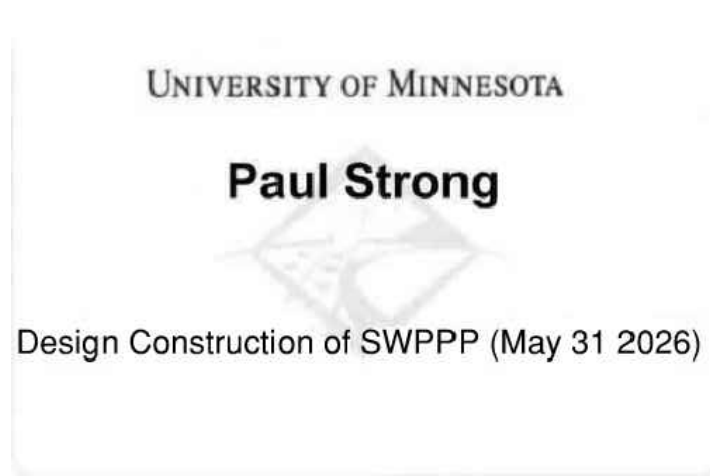
A trained person shall routinely inspect the entire construction site during active construction at an interval of no more than:	7 calendar days
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SPECIAL ENVIRONMENTAL CONSIDERATIONS AND PERMITS:

1)	Was an environmental review required for this project or any part of a common plan of development or sale that includes all or any portion of this project?	NO
2)	Does any portion of the site have the potential to affect threatened or endangered species or their critical habitat?	NO
3)	Does any portion of this site discharge to a Calcareous fen.	NO
4)	Will any portion of the site potentially affect properties listed on the National Register of Historic Places or a known or discovered archeological site?	NO
5)	Have any Karst features have been identified in the project vicinity?	NO
6)	Is compliance with temporary or permanent stormwater management design requirements infeasible for this project?	NO
7)	Has the MN DNR promulgated "work in water restrictions" for any Public Water this site discharges to during fish spawning?	NO

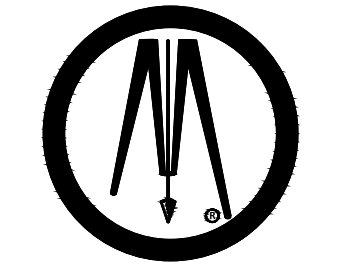
TYPE OF PERMIT	PERMITTING AGENCY	PERMIT STATUS AND CONDITIONS
Construction Stormwater NPDES	MPCA	In Process

SWPPP DESIGNER TRAINING DOCUMENTATION:



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Minneapolis, MN 55401  
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PLYMOUTH, MN 55447

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota

Matthew J. Isakson

59553

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

CITY OF NORTHFIELD  
**NORTHFIELD ICE ARENA**  
1900 CANNON RD, NORTHFIELD, MN 55057

DATE
03/25/2025
PHASE
100% CD
PROJECT
NORTHFIELD ICE ARENA
SHEET
SWPPP NARRATIVE

C2.03



E  
D  
C  
B  
A



**LEGEND**

- PROJECT BOUNDARY
- SOIL TYPE
- IMPAIRED, SPECIAL OR PROTECTED WATERS
- NATIONAL WETLANDS INVENTORY
- DWSMA, LOW VULNERABILITY
- STEEP SLOPES (>33.3%)
- RECEIVING WATERS

0 75 150  
SCALE FEET

SOIL TYPE SUMMARY

Map Unit Symbol	Soil Name	Hyd. Soil Group	Erodibility
100A	COPASTON SANDY CLAY LOAM, 0 TO 2 PERCENT SLOPES	D	NHEL
1016	UDORTHENTS, LOAMY (CUT AND FILL LAND)	A	PHL
1411B	URBAN LAND-HAYDEN-ESTHERVILLE COMPLEX, 1 TO 6 PERCENT SLOPES	-	-
377	MERTON SILT LOAM, 1 TO 3 PERCENT SLOPES	B/D	NHEL
408	FAXON CLAY LOAM, 0 TO 1 PERCENT SLOPES	C/D	NHEL
41B	ESTHERVILLE SANDY LOAM, 2 TO 6 PERCENT SLOPES	A	PHL

NHEL - Not Highly Erodible Land  
PHL - Potentially Highly Erodible Land  
HEL - Highly Erodible Land

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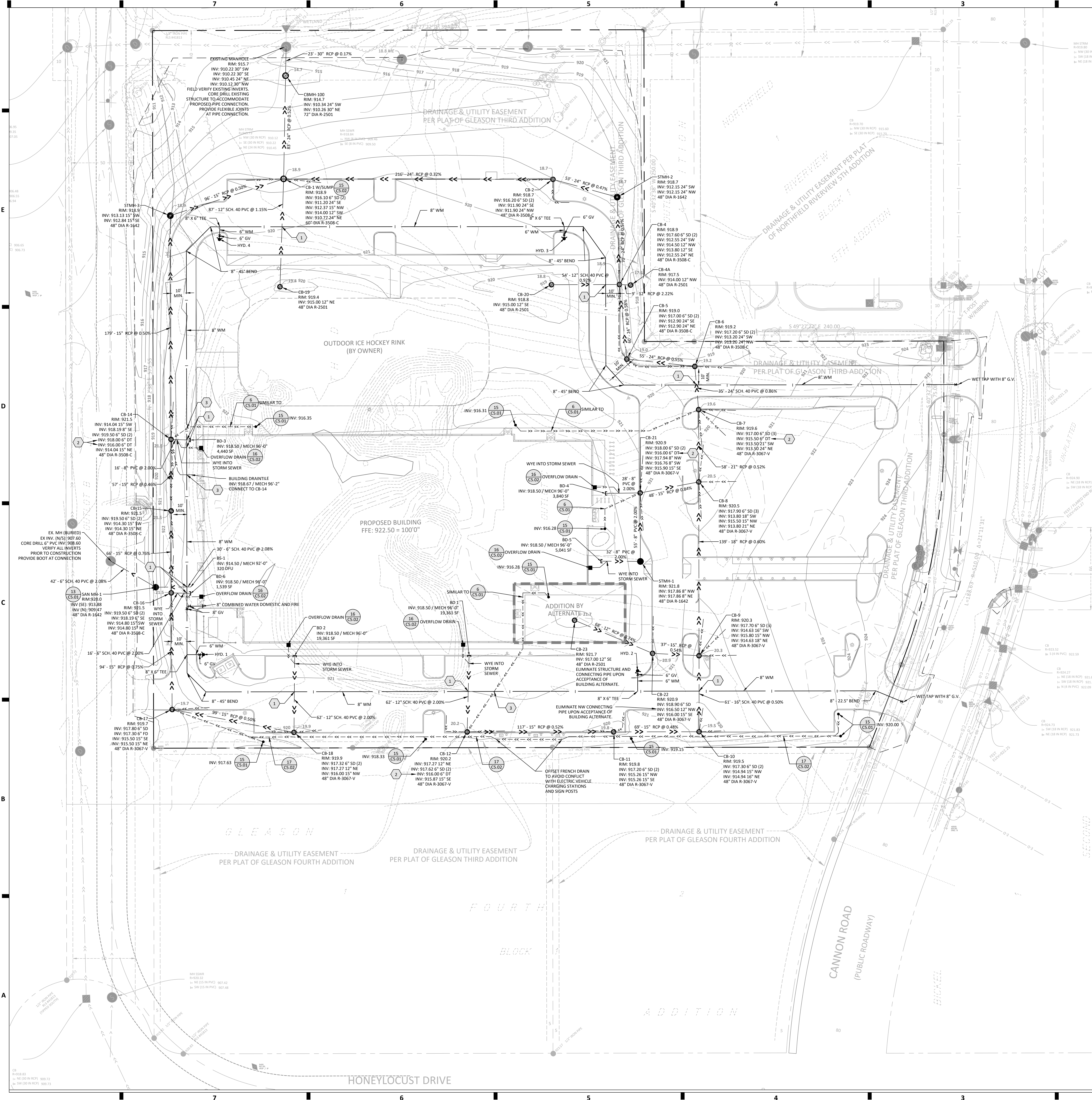
*Matthew J. Isakson*  
Matthew J. Isakson  
59553

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LEGEND

REFERENCE KEY TO SITE DETAILS  
DETAIL I.D. NUMBER (TOP)  
DETAIL SHEET NUMBER (BOTTOM)

EXISTING CONTOUR  
EXISTING SPOT ELEVATION  
PROPOSED CONTOUR

PROPOSED SPOT ELEVATION  
ME = MATCH EXISTING  
EOT = EMERGENCY OVERFLOW  
TC = TOP OF CURB

PROPOSED GRADING LIMITS

PROPOSED SANITARY SEWER  
PROPOSED STORM SEWER  
PROPOSED WATERMAIN

PROPOSED DRAIN TILE (DT) / SUBSURFACE DRAINS (SD)

PROPOSED MANHOLE (MH)  
PROPOSED CATCH BASIN (CB)  
OVERFLOW BUILDING DRAIN  
PROPOSED HYDRANT (HYD)  
PROPOSED GATE VALVE (GV)

PROVIDE MINIMUM 18" VERTICAL SEPARATION AT CROSSING - PROVIDE VERTICAL BENDS IN WATERMAIN AS REQUIRED TO ACCOMPLISH CENTER ONE LENGTH WATERMAIN PIPE ON CROSSING.

CONNECT DRAIN TILE TO STRUCTURE AND PROVIDE BACKWATER VALVE

CENTER ONE LENGTH OF SOLID PVC PIPE ON WATERMAIN AT CROSSING

PROPOSED BUILDING STOOP - REFER TO ARCHITECTURAL PLANS

PROPERTY LINE

NOTES

- REFER TO SHEET C3.01, GRADING AND DRAINAGE PLAN, FOR GENERAL NOTES.
- ALL WATERMAIN PIPE SHALL BE DIP, CLASS 52. ALL WATERMAIN SHALL HAVE MINIMUM 8'-0" BURY (TOP OF PIPE TO FINISH GRADE). DIP SHALL BE ENCASED WITH POLYETHYLENE FILM CONFORMING TO ASTM D 1248-889.
- ALL SANITARY SEWER PIPE SHALL BE PVC PIPE (ASTM D 3034, SDR 26), UNLESS OTHERWISE NOTED. SANITARY SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321.
- ALL SANITARY SEWER PIPE CROSSING WATERMAIN, OUTSIDE OF THE PUBLIC RIGHT-OF-WAY, SHALL BE ASTM D2665, SCHEDULE 40 PVC WITH SOLVENT WELD JOINTS.
- ALL STORM SEWER PIPE SHALL BE RCP, CLASS III (MIN.), WITH FLEXIBLE WATERTIGHT JOINTS IN ACCORDANCE WITH ASTM C-361 OR PVC PIPE (ASTM D3034, SDR 35) INSTALLED IN ACCORDANCE WITH ASTM D2321, UNLESS OTHERWISE NOTED.
- ALL STORM SEWER PIPE CROSSING WATERMAIN, OUTSIDE OF THE PUBLIC RIGHT-OF-WAY, SHALL BE ASTM D2665, SCHEDULE 40 PVC WITH SOLVENT WELD JOINTS.
- FLEXIBLE JOINTS AT STORM SEWER PIPE CONNECTIONS TO STRUCTURES:
  - IN ACCORDANCE WITH MINNESOTA PLUMBING CODE, PROVIDE FLEXIBLE JOINTS AT ALL PIPE CONNECTIONS TO ALL STORM SEWER STRUCTURES.
  - ACCEPTABLE MANUFACTURERS / PRODUCTS:
    - PERNCO, "CONCRETE MANHOLE ADAPTORS" OR "LARGE-DIAMETER WATERSTOPS"
    - PRESS-SEAL, WATERSTOP GROUTING RINGS"
    - OR APPROVED EQUAL.
- INSTALL WATERMAIN AT LEAST 10 FEET HORIZONTALLY FROM ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAIN TILE, OR OTHER POTENTIAL SOURCE FOR CONTAMINATION PER MN PLUMBING CODE. THIS ISOLATION DISTANCE IS MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR SIMILAR).
- INSTALL MANHOLES, CATCH BASINS, STORM SEWER, SANITARY SEWER, DRAIN TILE, AND OTHER POTENTIAL SOURCES OF CONTAMINATION AT LEAST 10 FEET HORIZONTALLY FROM ANY WATERMAIN PER MN PLUMBING CODE. THIS ISOLATION DISTANCE IS MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR SIMILAR).
- LOCATE ALL EXISTING UTILITIES. VERIFY LOCATION, SIZE AND INVERT ELEVATION OF ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION.
- PRIOR TO CONSTRUCTION OF PROPOSED BUILDING UTILITY SERVICES (STORM, SANITARY SEWER, WATERMAIN), VERIFY ALL PROPOSED BUILDING UTILITY SERVICE PIPE SIZES, LOCATIONS AND ELEVATIONS WITH MECHANICAL PLANS. COORDINATE CONSTRUCTION AND CONNECTIONS WITH MECHANICAL CONTRACTOR.
- STAKE LIMITS OF WALKS AND CURBING PRIOR TO INSTALLATION OF GATE VALVES, CATCH BASINS, AND MANHOLES. ADJUST GATE VALVE AND MANHOLE LOCATIONS TO AVOID PLACEMENT OF THESE STRUCTURES IN WALKS AND CURB AND GUTTER. STAKE CURB AND GUTTER ALIGNMENTS TO ALLOW CURB INLET TYPE CATCH BASINS TO PROPERLY ALIGN WITH CURB AND GUTTER.

ROCK REMOVAL

SHALLOW BEDROCK IS KNOWN TO BE PRESENT ON SITE. ALL ROCK REMOVAL IS ANTICIPATED TO BE WITHIN THE SCOPE OF OTHERS. IF ADDITIONAL ROCK REMOVAL IS REQUIRED BY THE BIDDING CONTRACTOR, REFER TO SPEC 31 23 16 ROCK REMOVAL AND UNIT PRICES. REFER TO SPECIFICATION 31 23 16 FOR PROCEDURE ON HOW TO CALCULATE ACTUAL ROCK REMOVAL QUANTITIES.

WORK SCOPE BY OTHERS

ALL UTILITY WORK 10' OUTSIDE OF THE BUILDING WILL BE COMPLETED BY OTHERS, EXCLUDING ALL DRAIN TILE, SUBSURFACE DRAIN, AND FRENCH DRAIN INSTALLATION. BIDDING CONTRACTORS SHALL NOT BID ON STORM SEWER, SANITARY SEWER, OR WATERMAIN UTILITY WORK AT A DISTANCE 10' OUTSIDE OF THE BUILDING. THIS WORK WILL INCLUDE APPROXIMATELY 300 CUBIC YARDS OF ROCK REMOVAL.

WORK SCOPE BY BIDDING CONTRACTORS

ALL WORK NOT COMPLETED BY OTHERS SHALL BE INCLUDED IN THE SCOPE OF THE BIDDING CONTRACTOR.

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Matthew J. Isakson  
59553

NO.	DESCRIPTION	DATE
A2	ADDENDUM #2	4/4/2025
A4	ADDENDUM #4	4/14/2025

CITY OF NORTHFIELD  
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1900 CANNON RD, NORTHFIELD, MN 55057

DATE  
**03/25/2025**

PHASE  
**100% CD**

PROJECT  
**NORTHFIELD ICE ARENA**

SHEET  
**UTILITY PLAN**

**C4.01**

0 30 60  
HORIZ. SCALE FEET



1  
C5.01

4 STABILIZED CONSTRUCTION ENTRANCE  
C5.01

7 BEDDING METHODS FOR PVC  
C5.01

10  
C5.01

13  
C5.01

SANITARY SEWER OUTSIDE  
DROP MANHOLE

NOT TO SCALE

2  
5.01

BIOROLL DITCH CHECK / SEDIMENT CONTROL LOG

1) BEDDING METHODS FOR RCP OR DIP

WATERMAIN OFFSET

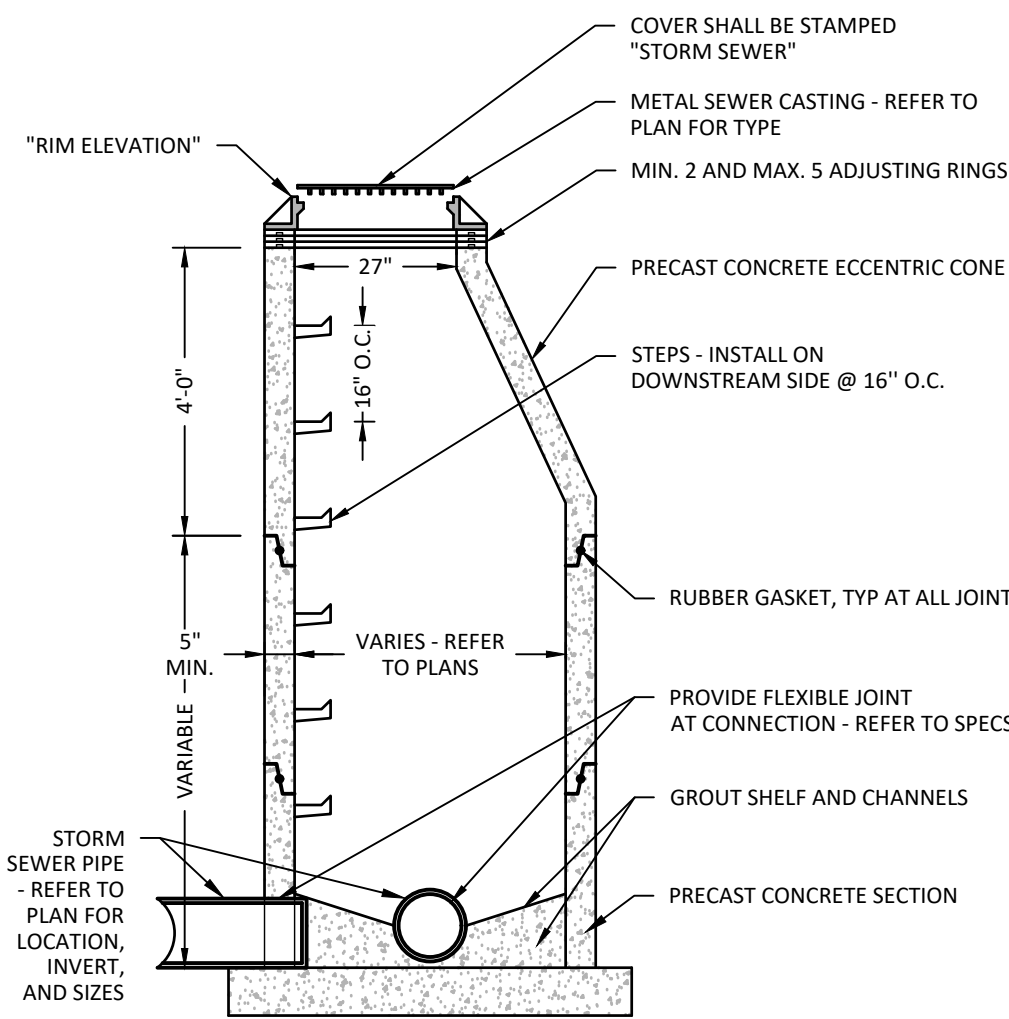

**ENGINEERING DIVISION**
 FLEXIBLE WATERTIGHT CONNECTION

3 EROSION CONTROL BLANKET  
C5.01

## HYDRANT INSTALLATION

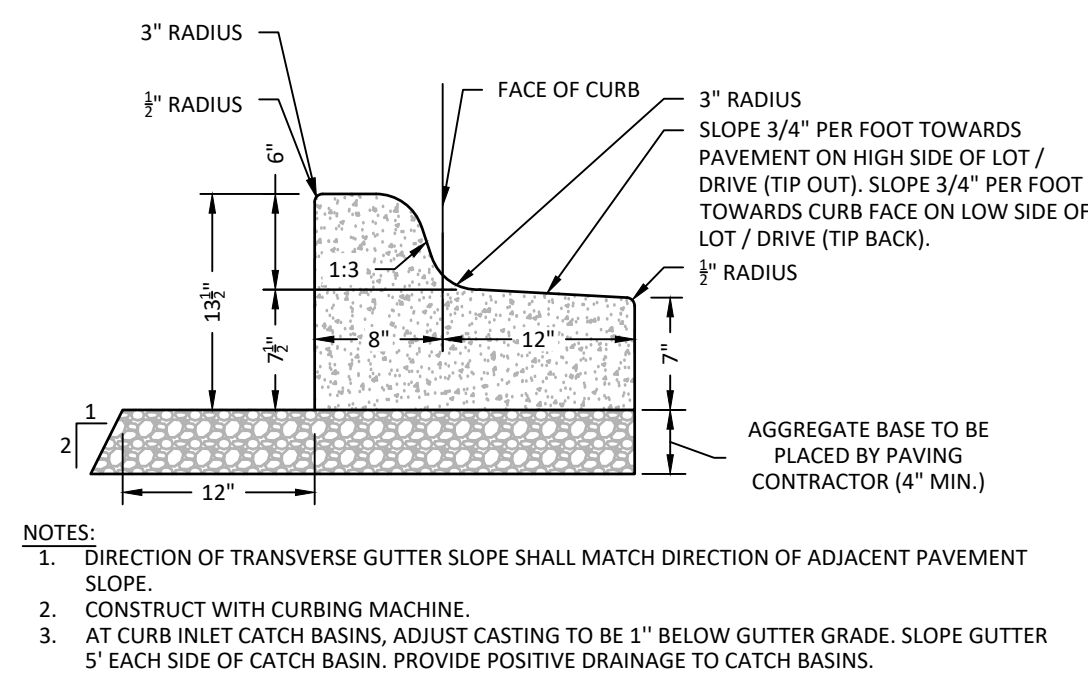
## CONCRETE THRUST BLOCKING





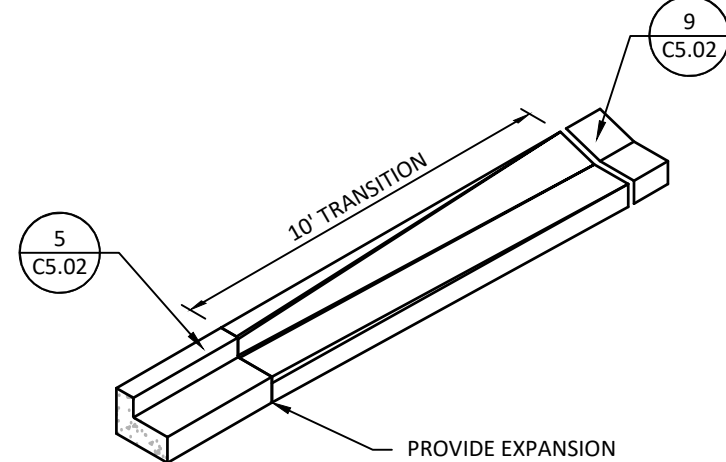
1 C5.02 STORM SEWER MANHOLE

NOT TO SCALE



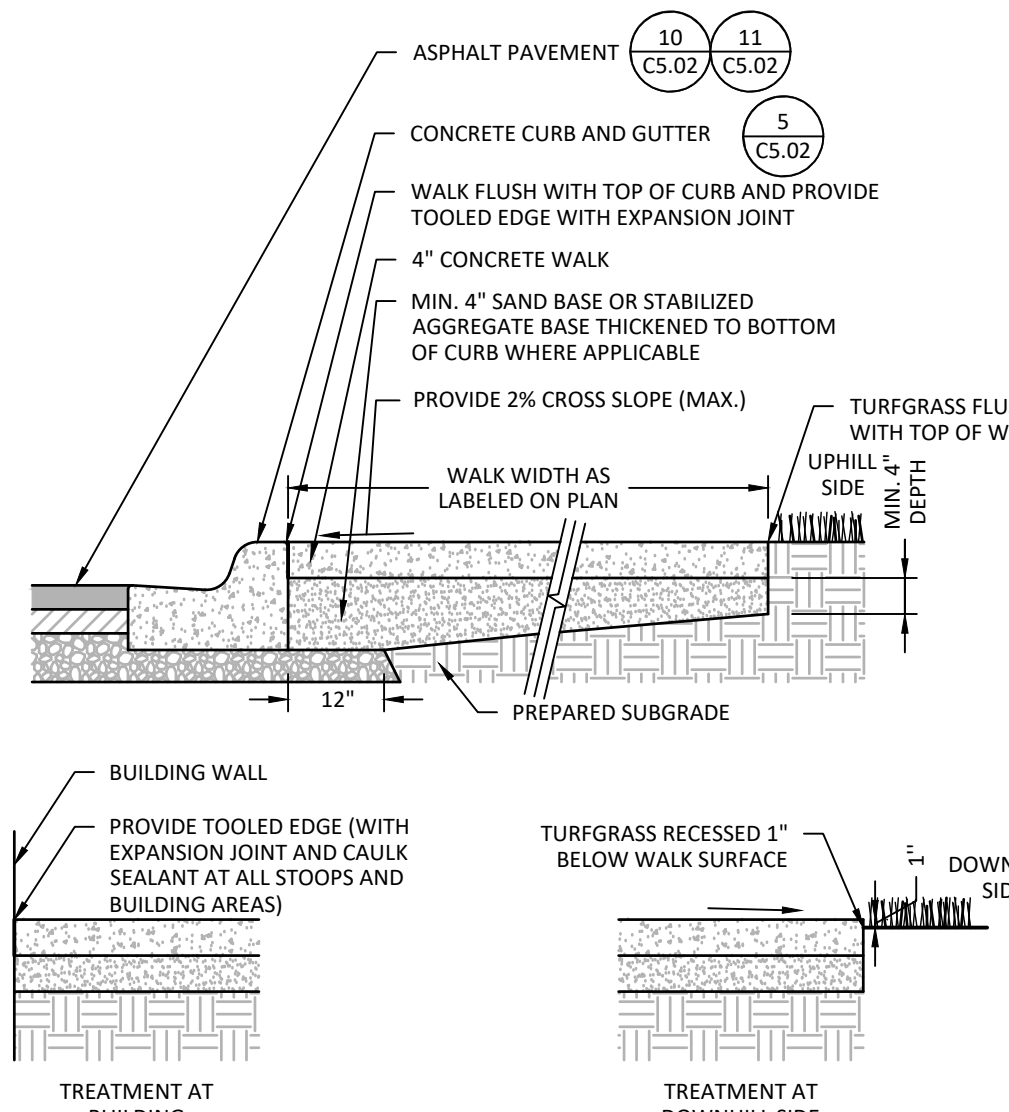
5 C5.02 B-612 CURB AND GUTTER

NOT TO SCALE



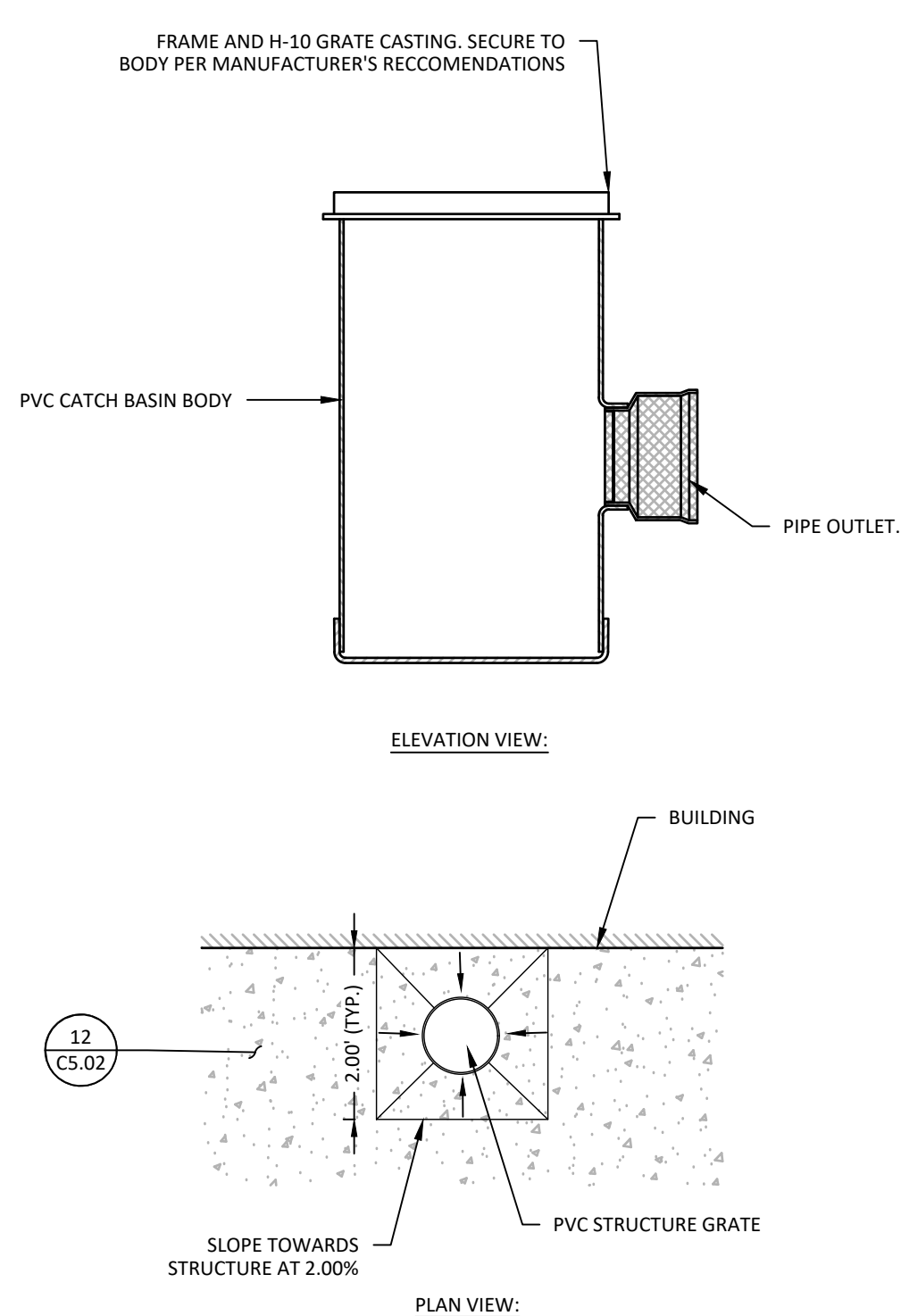
8 C5.02 CURB TRANSITION D-412 TO B-612

NOT TO SCALE

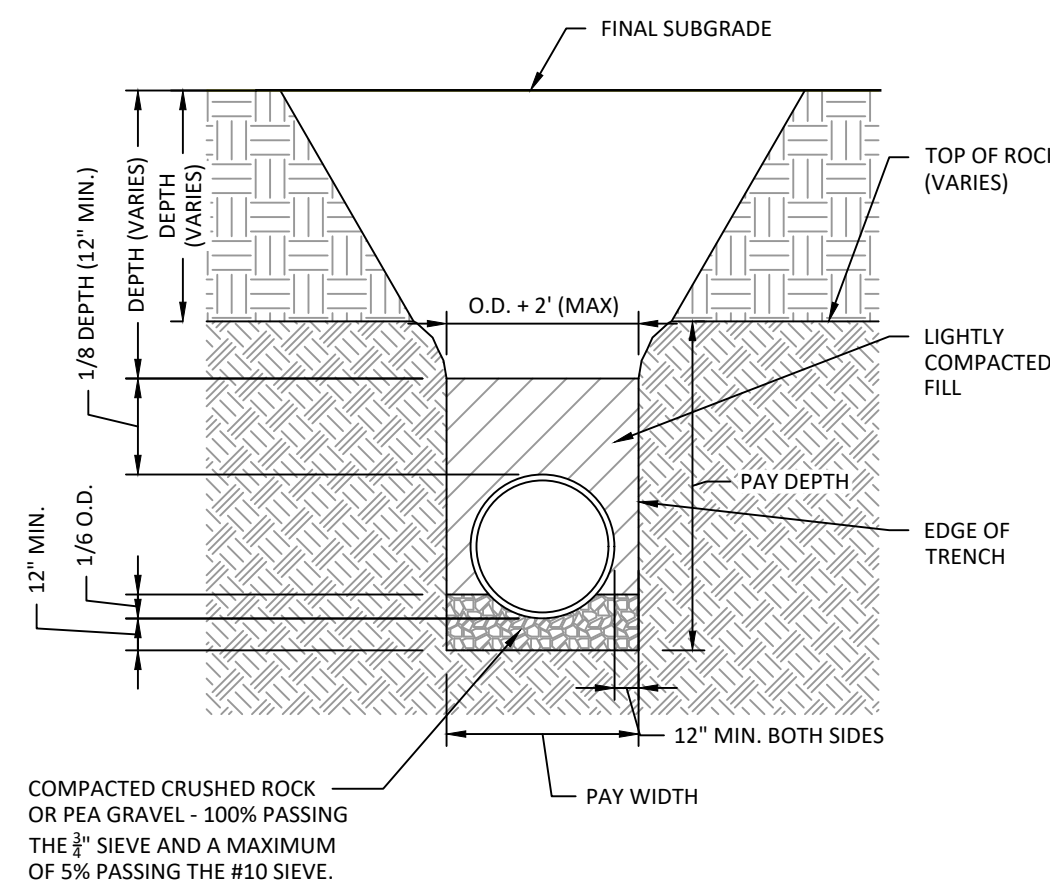


12 C5.02 CONCRETE WALK

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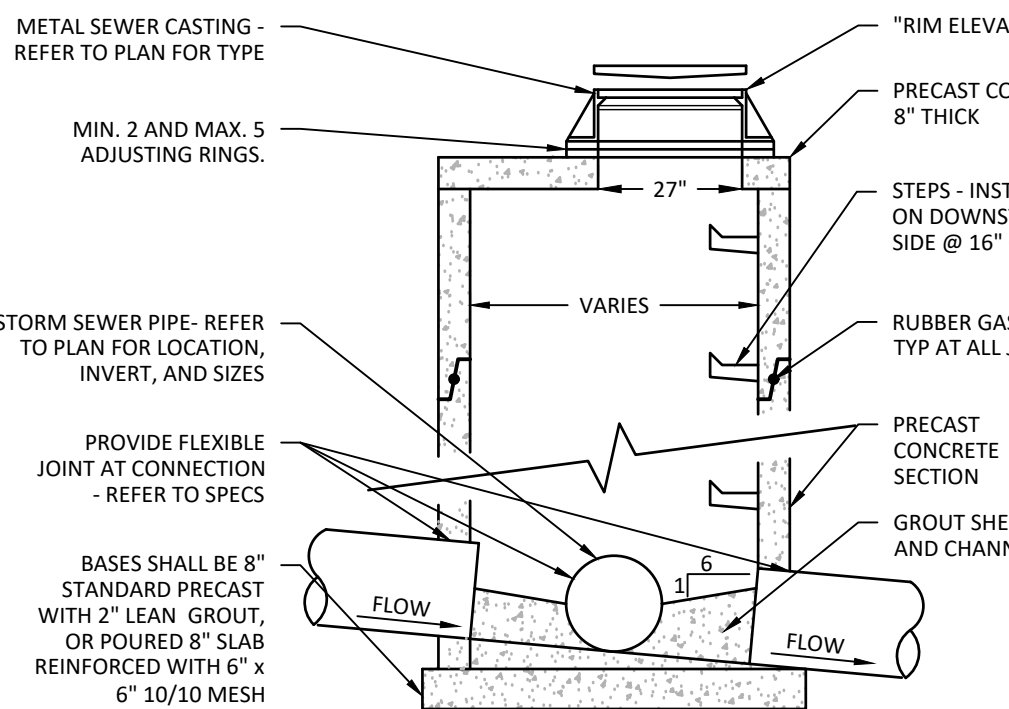


16 C5.02 PVC CATCH BASIN AT BUILDING OVERFLOW DRAINS



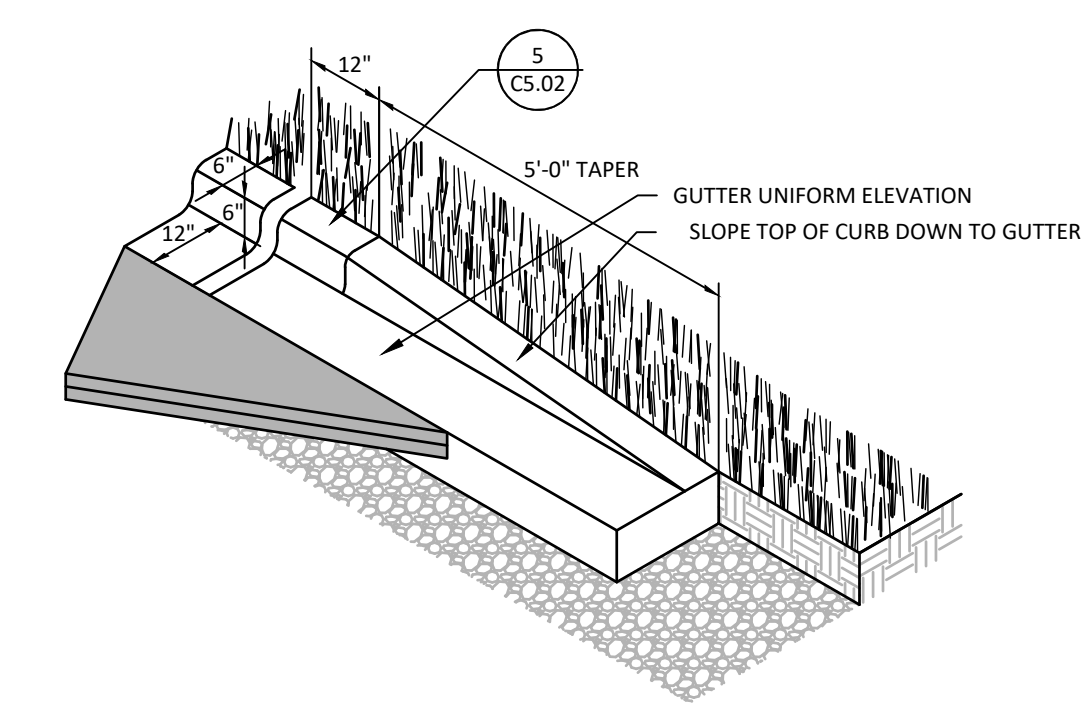
20 C5.02 ROCK EXCAVATION FOR UTILITY TRENCHING

NOT TO SCALE



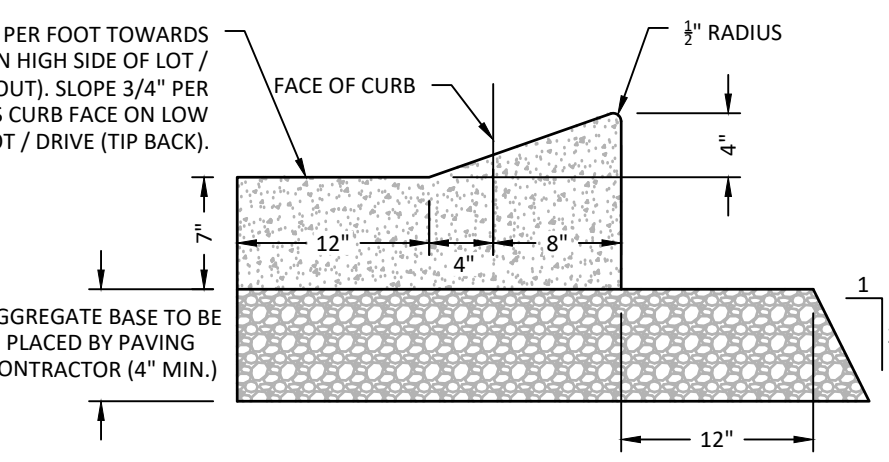
2 C5.02 CATCH BASIN

NOT TO SCALE



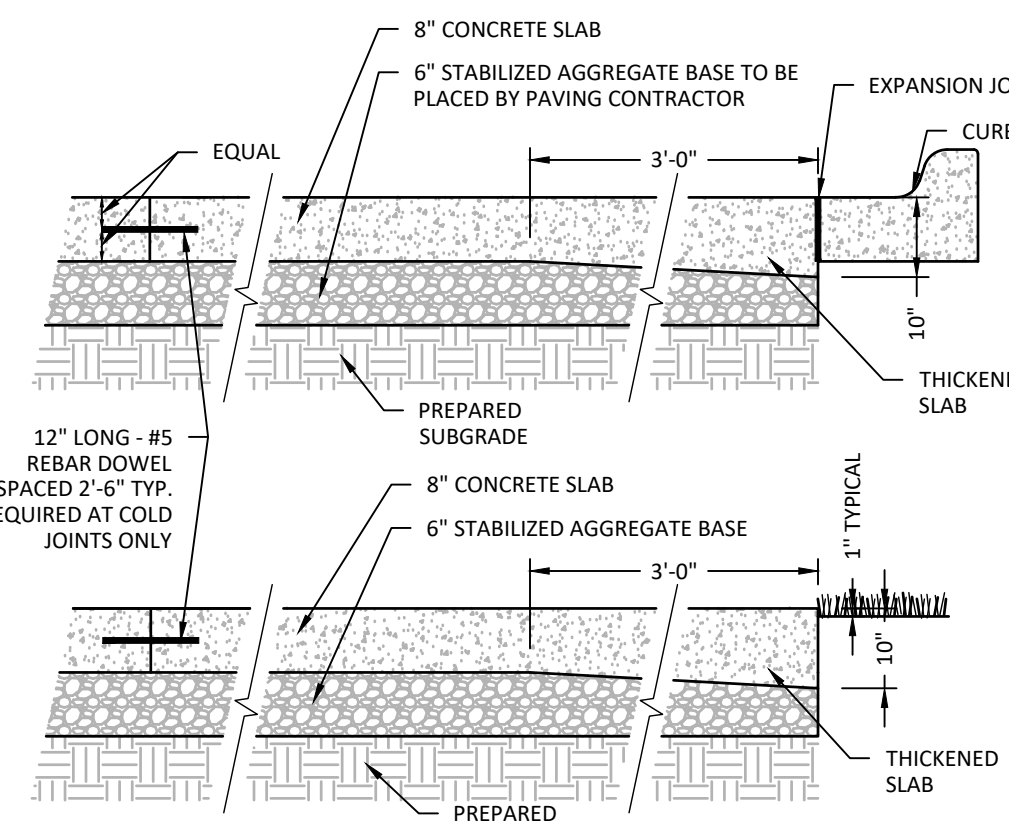
6 C5.02 B-612 CURB TERMINATOR

NOT TO SCALE



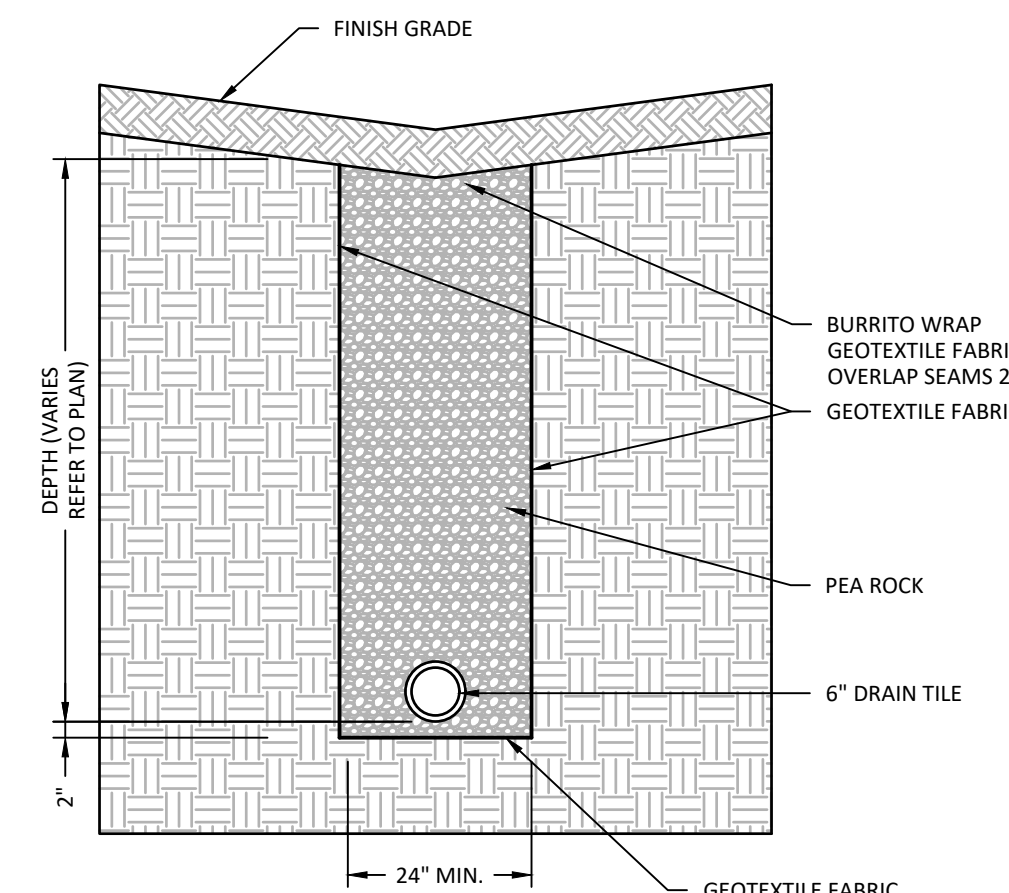
9 C5.02 D-412 CURB & GUTTER

NOT TO SCALE



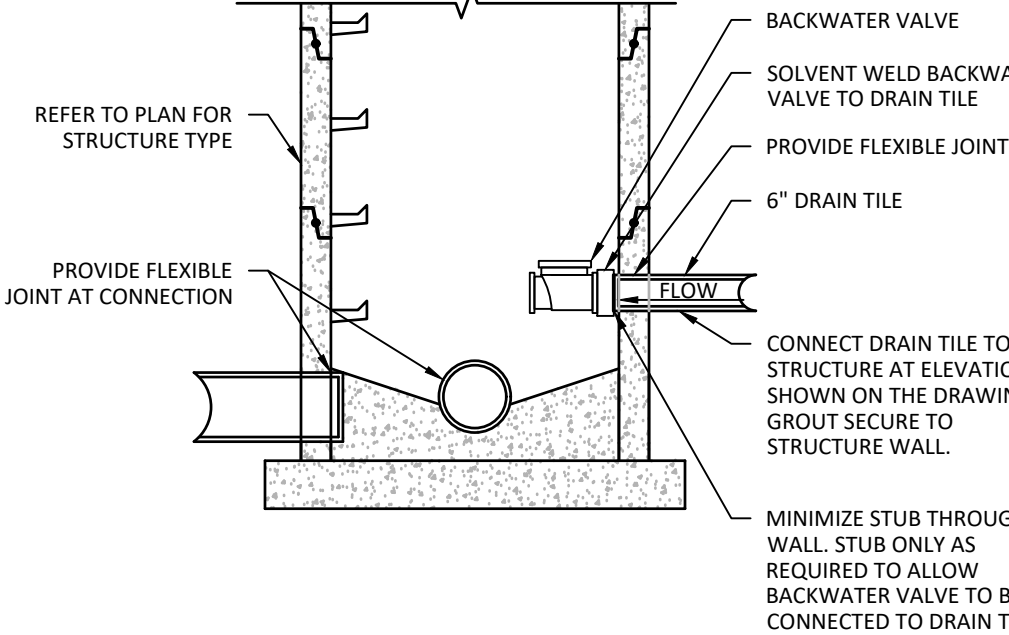
13 C5.02 CONCRETE SLAB

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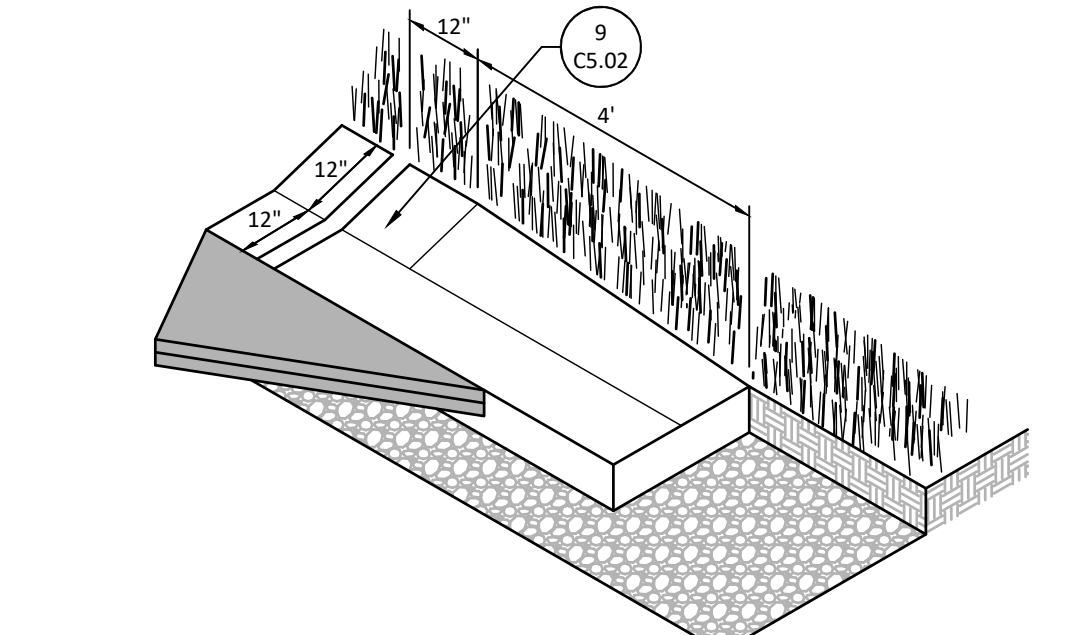
17 C5.01 FRENCH DRAIN

NOT TO SCALE



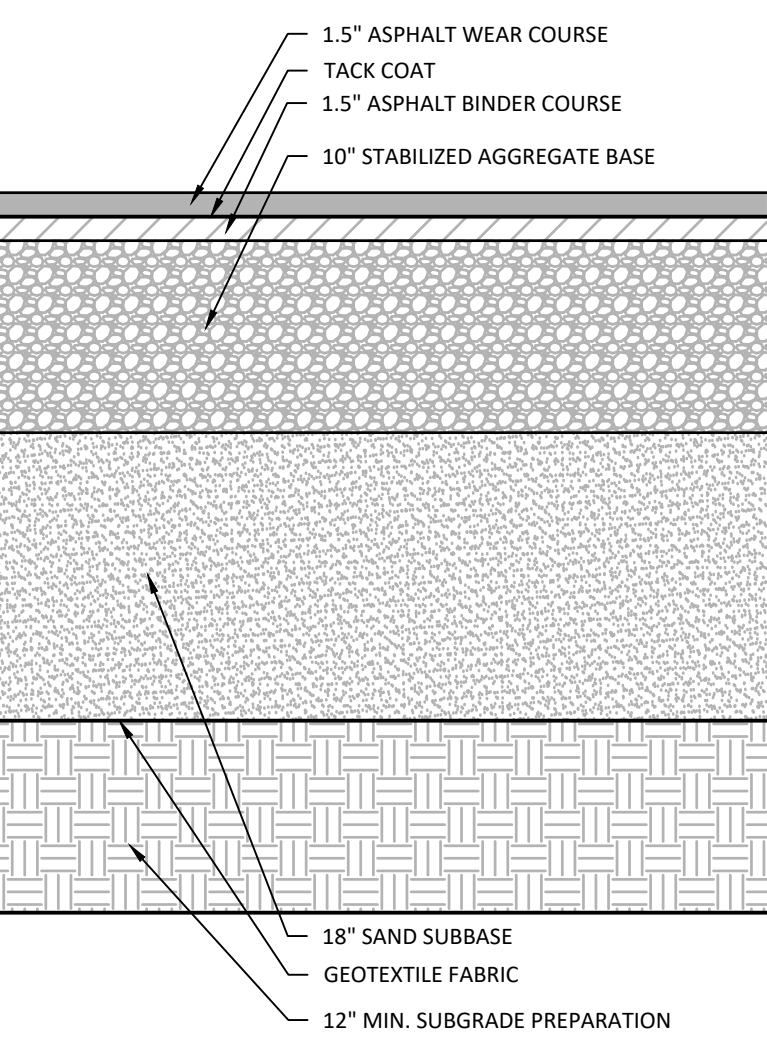
3 C5.02 BACKWATER VALVE

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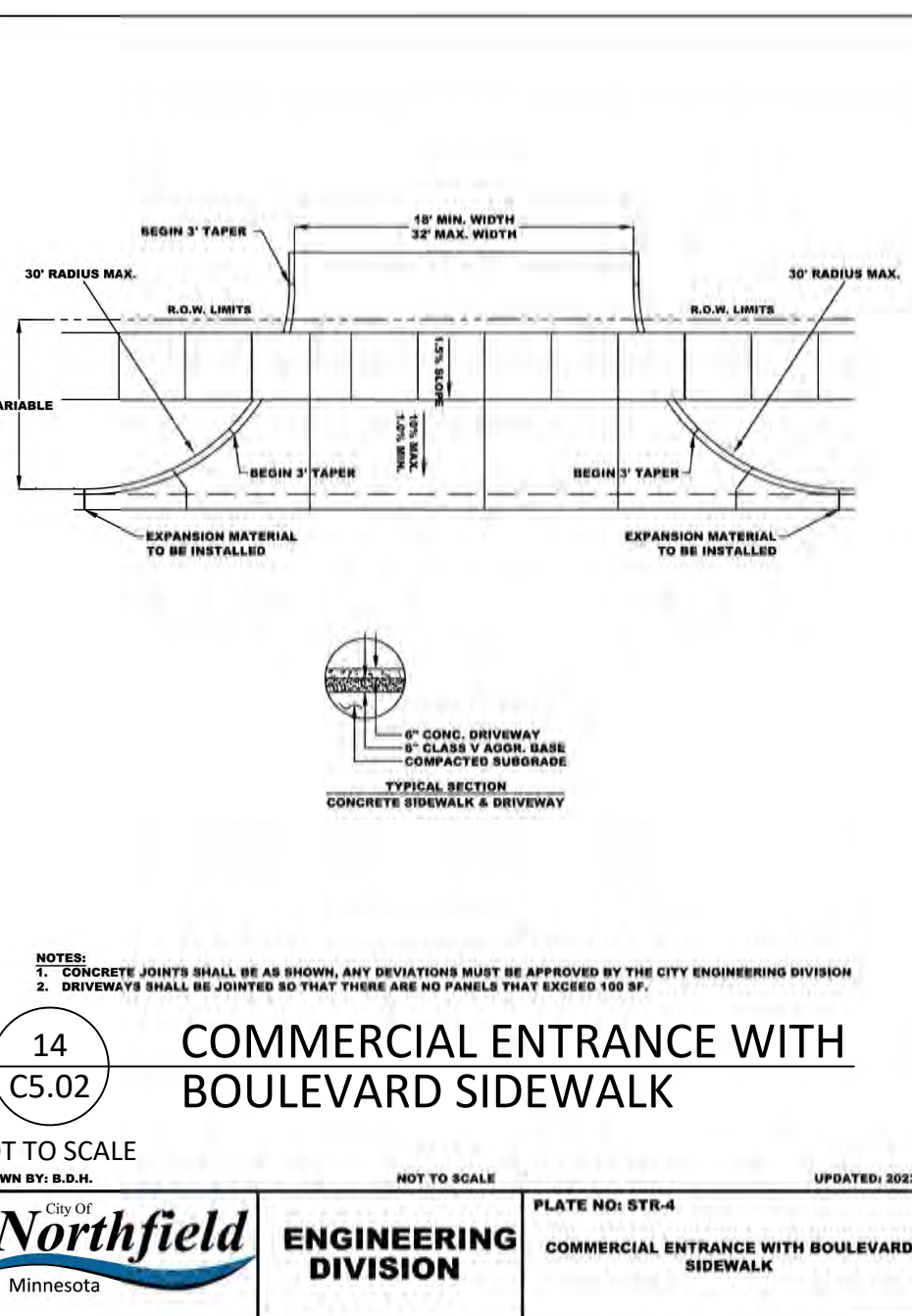
6B C5.02 D-412 CURB TERMINATOR

NOT TO SCALE



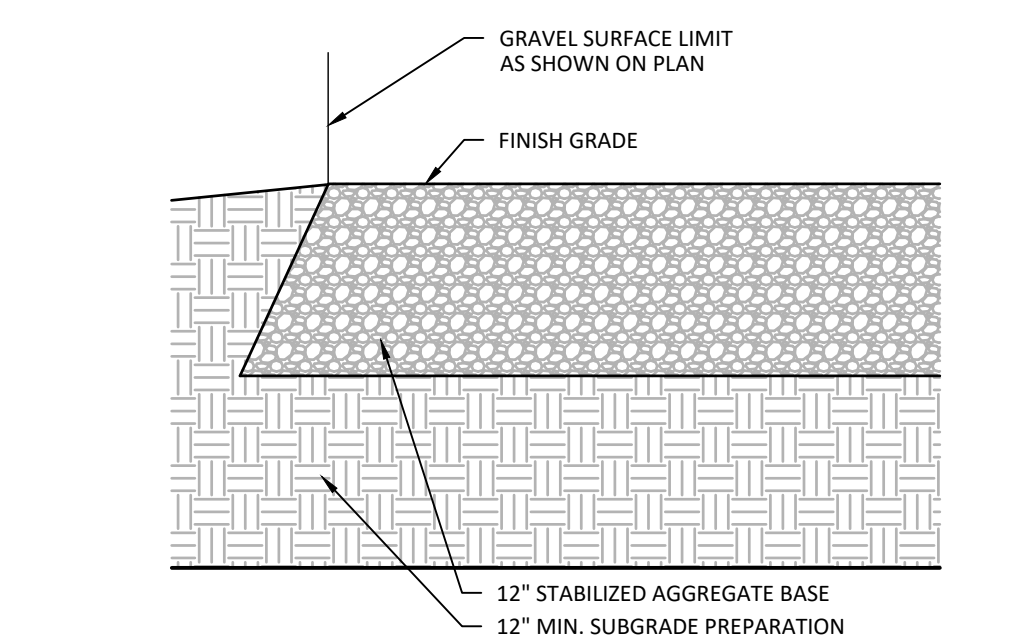
10 C5.02 MEDIUM DUTY ASPHALT PAVEMENT (WITH SAND SUBBASE)

NOT TO SCALE



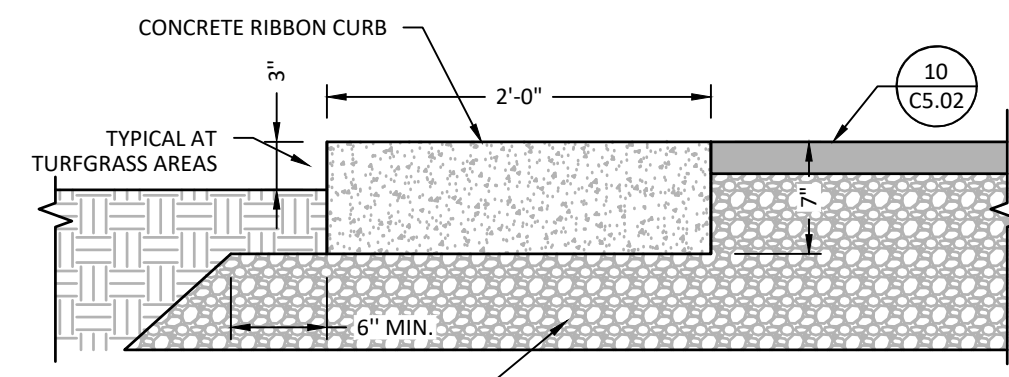
14 C5.02 COMMERCIAL ENTRANCE WITH BOULEVARD SIDEWALK

NOT TO SCALE



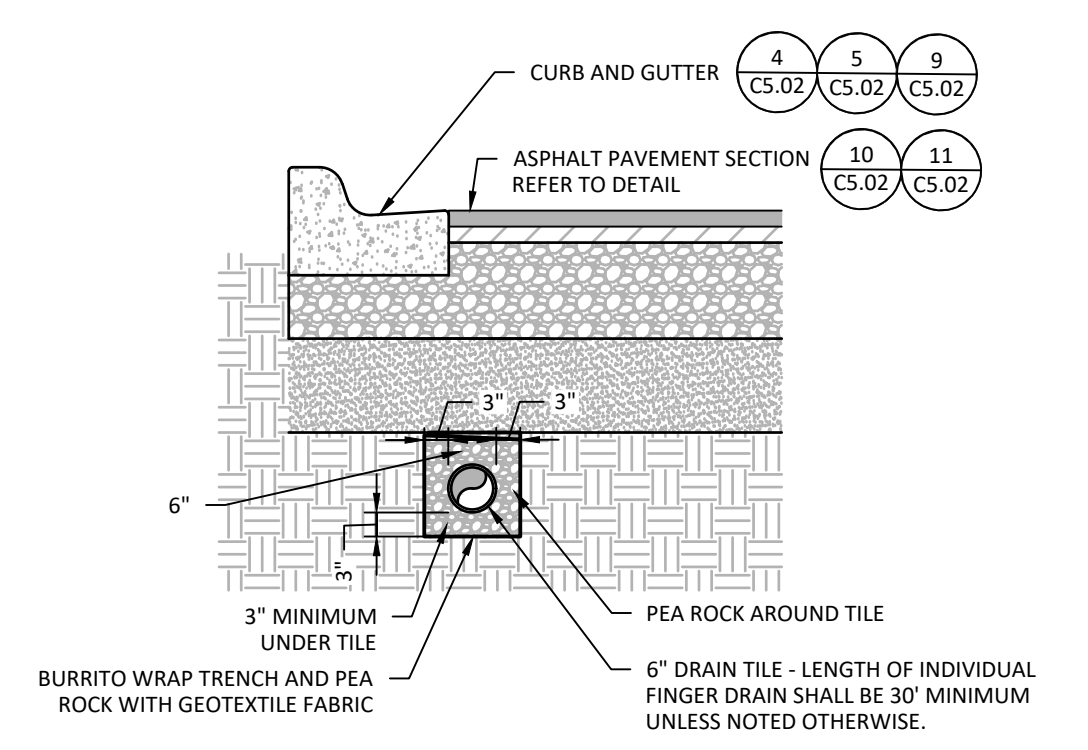
18 C5.02 GRAVEL SURFACE

NOT TO SCALE



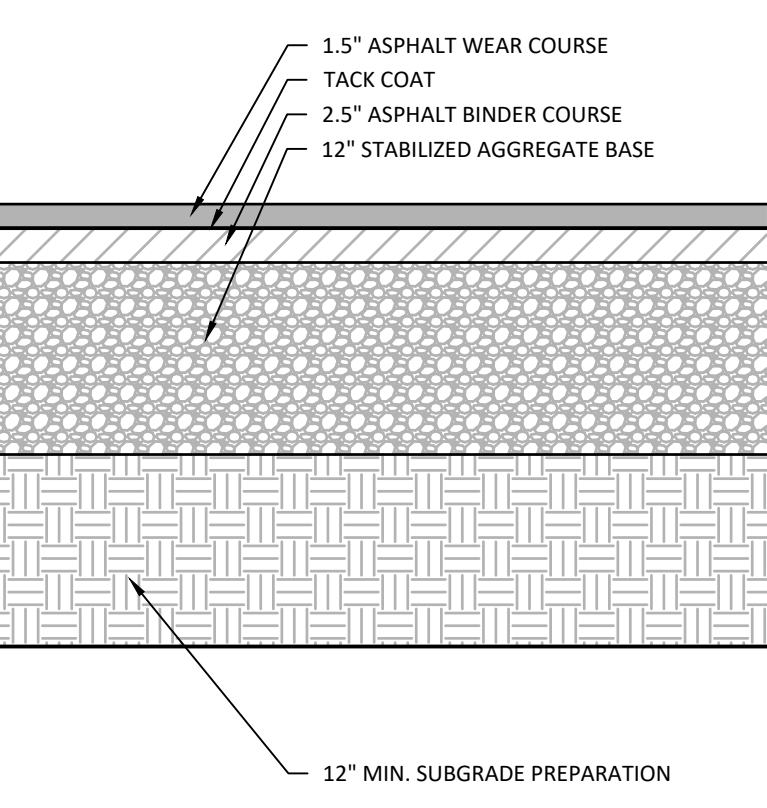
4 C5.02 CONCRETE RIBBON CURB

NOT TO SCALE



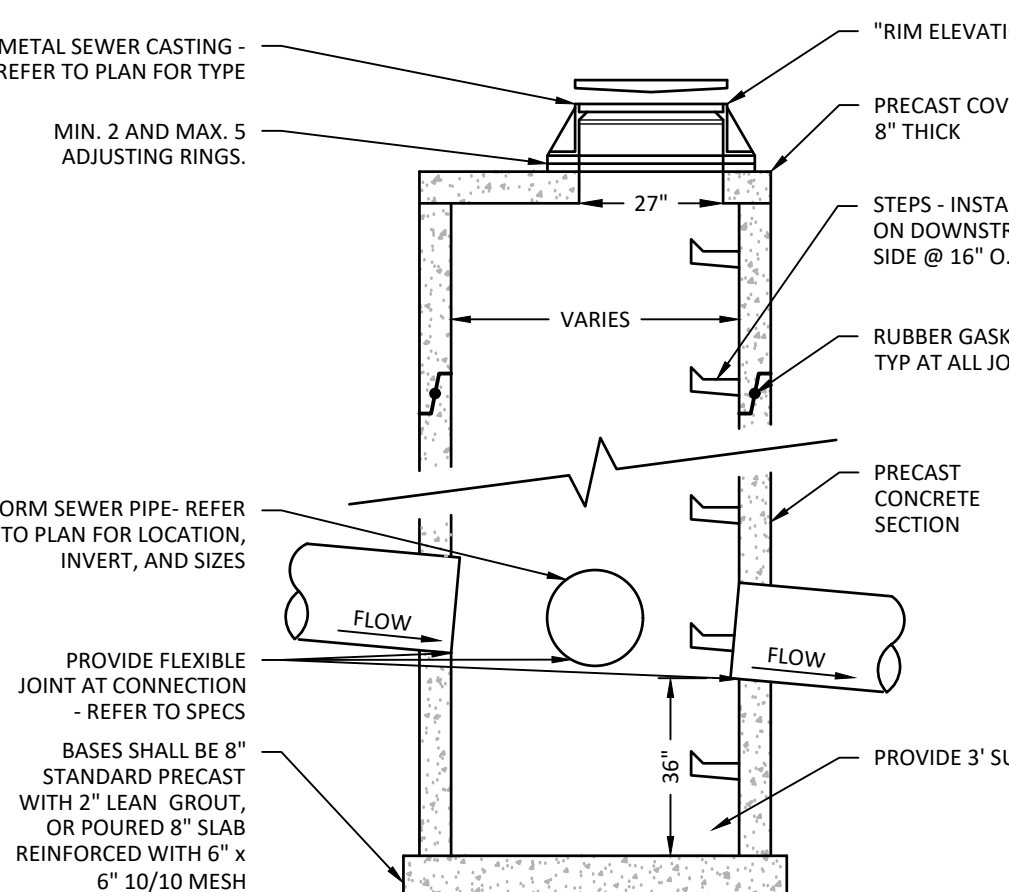
7 C5.02 SUBSURFACE DRAIN

NOT TO SCALE



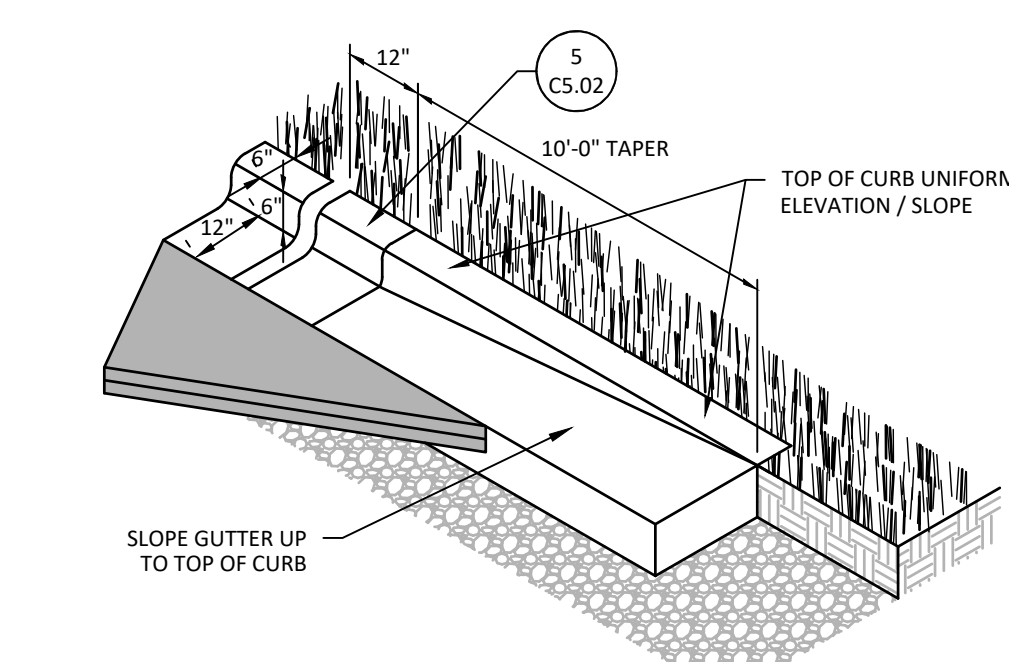
11 C5.02 HEAVY DUTY ASPHALT PAVEMENT

NOT TO SCALE



15 C5.02 36" SUMP CATCH BASIN

NOT TO SCALE



19 C5.02 B-612 REVERSE CURB TERMINATOR

NOT TO SCALE

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
A4	ADDENDUM #4	4/14/2025







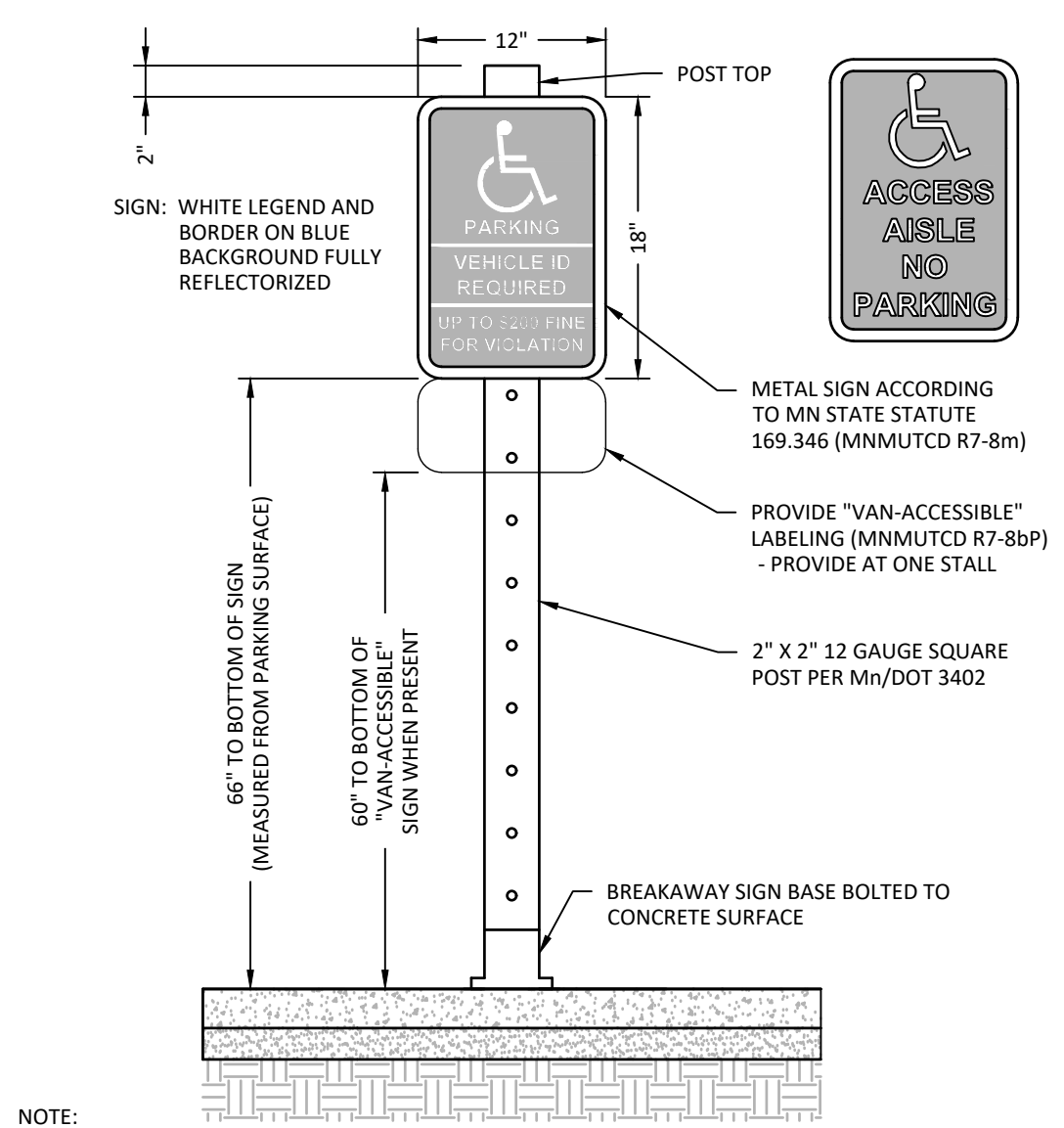
E

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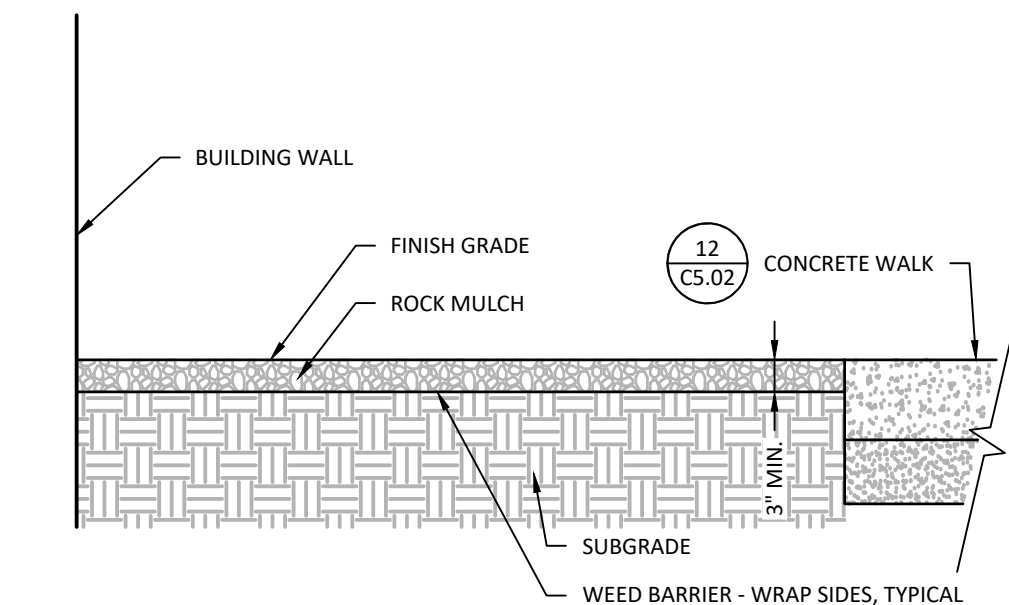


NOTE: SIGN SHALL BE PLACED NOT MORE THAN 96" FROM FACE OR EDGE OF PAVEMENT AT THE ACCESSIBLE STALL.

1  
C5.04

ACCESSIBLE PARKING SIGN AND POST WITH BREAKAWAY BASE

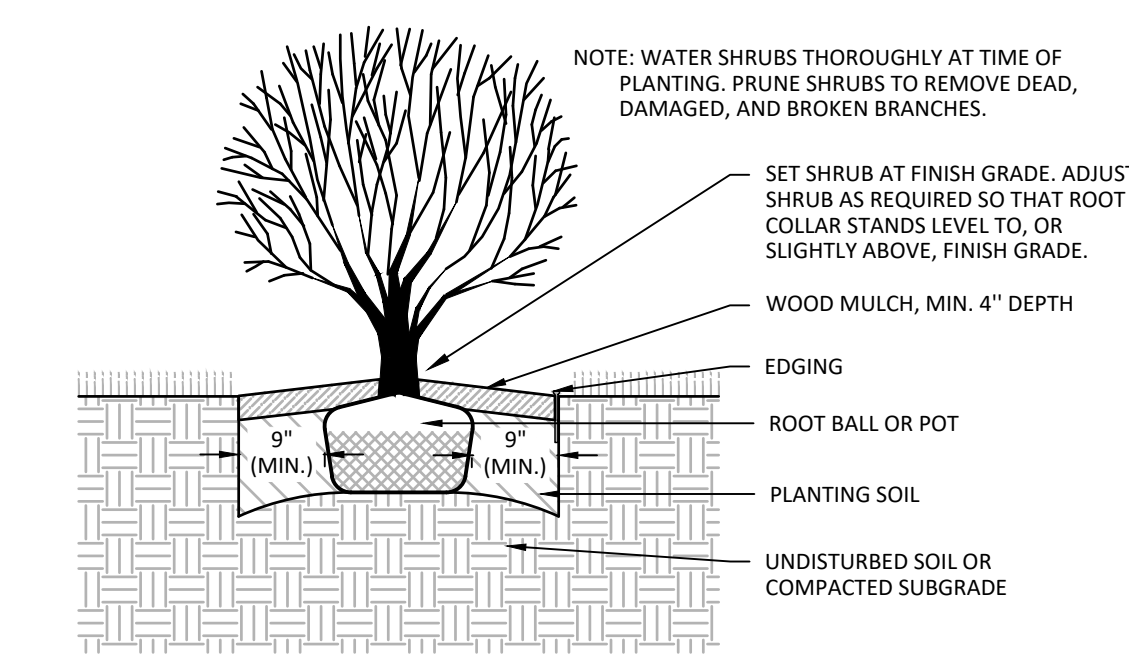
NOT TO SCALE



5  
C5.04

ROCK MULCH BED

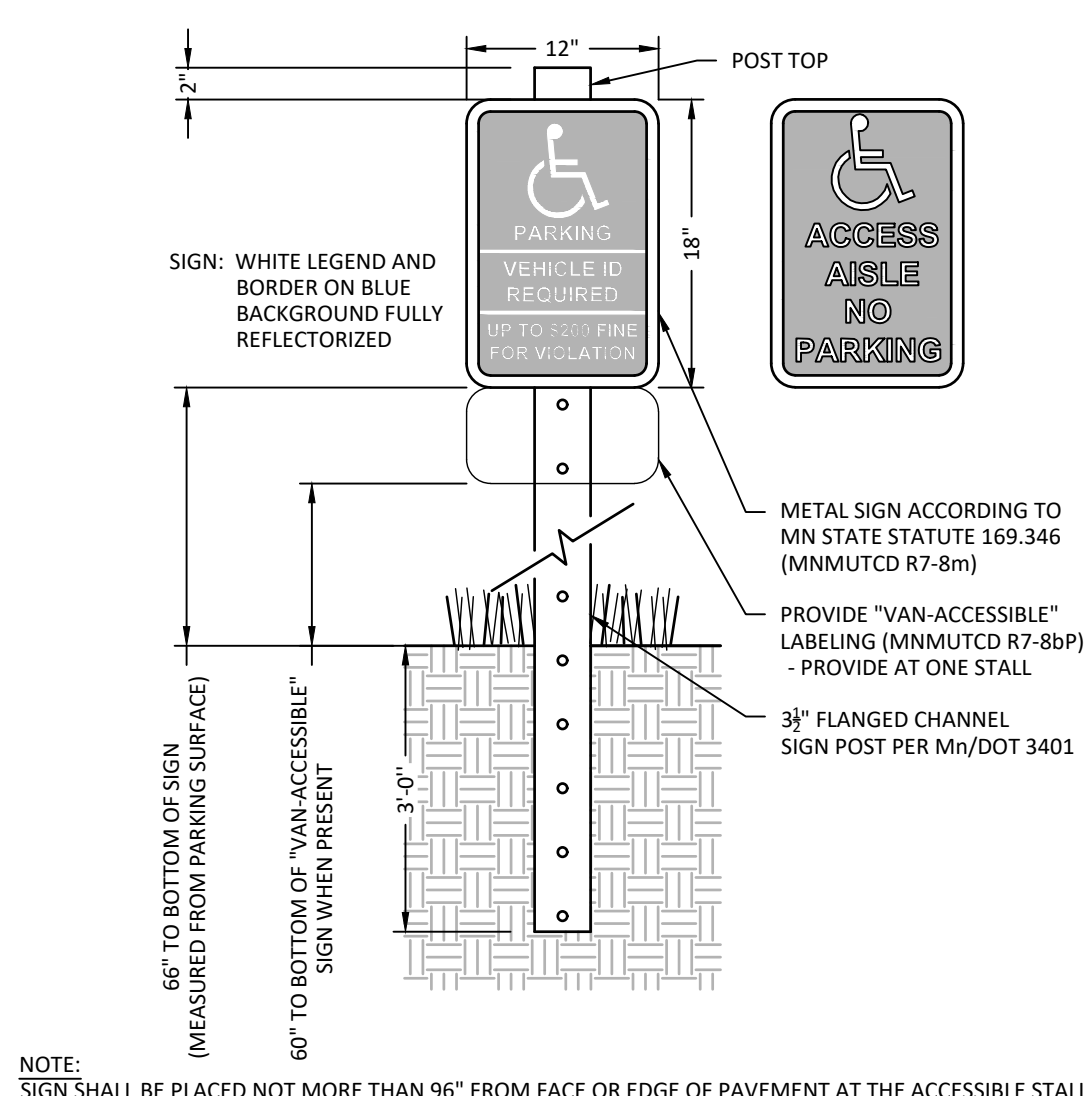
NOT TO SCALE



7  
C5.04

SHRUB

NOT TO SCALE

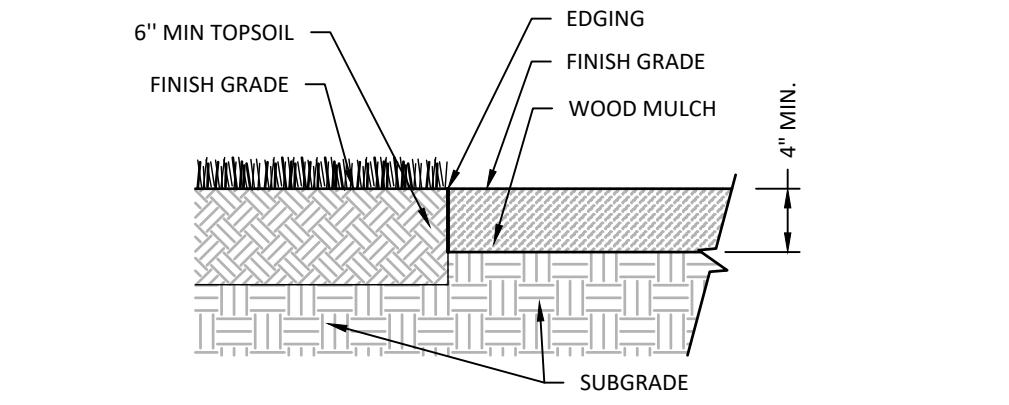


NOTE: SIGN SHALL BE PLACED NOT MORE THAN 96" FROM FACE OR EDGE OF PAVEMENT AT THE ACCESSIBLE STALL.

2  
C5.04

ACCESSIBLE PARKING SIGN AND POST IN GRASS

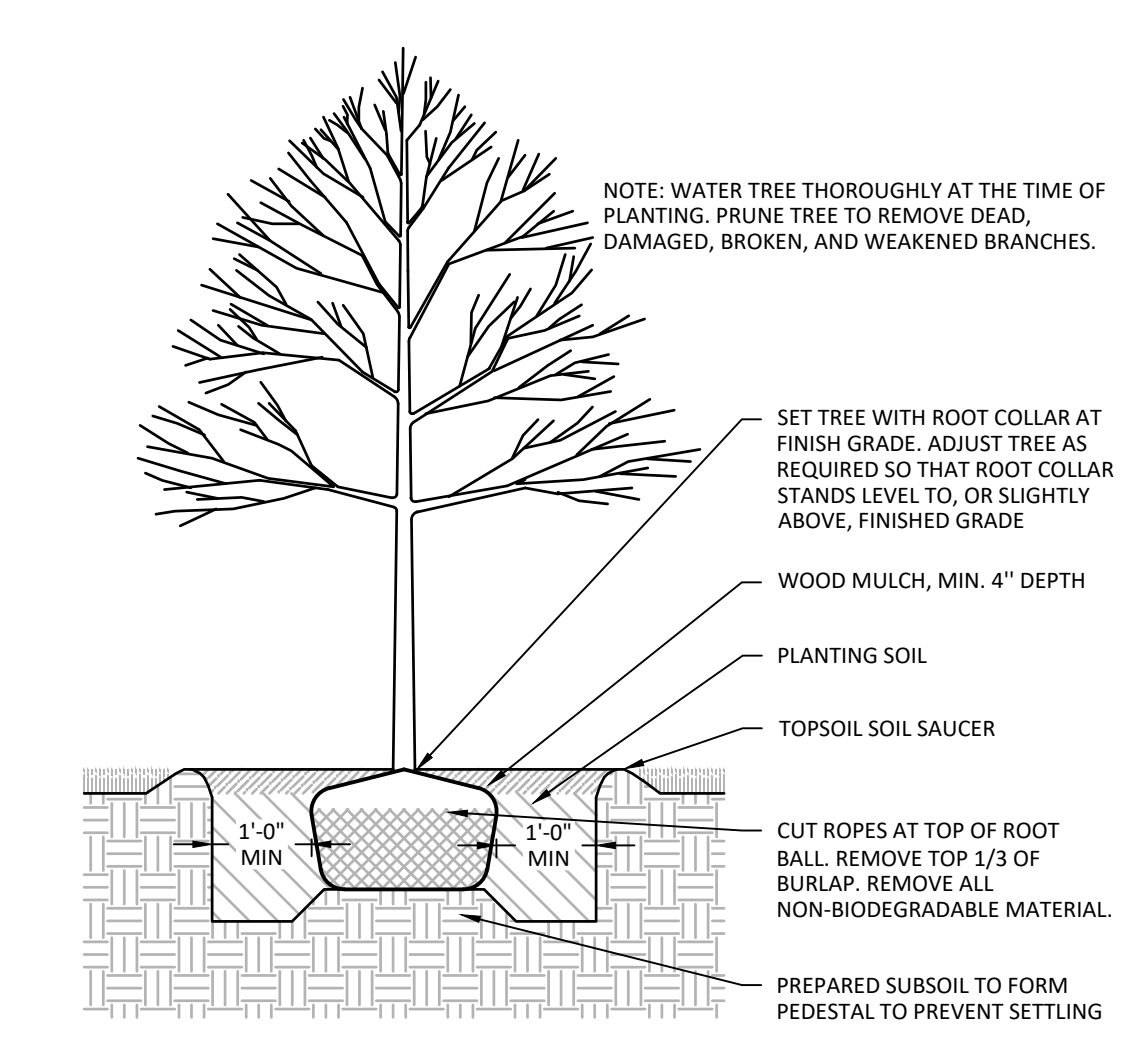
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6  
C5.04

WOOD MULCH BED

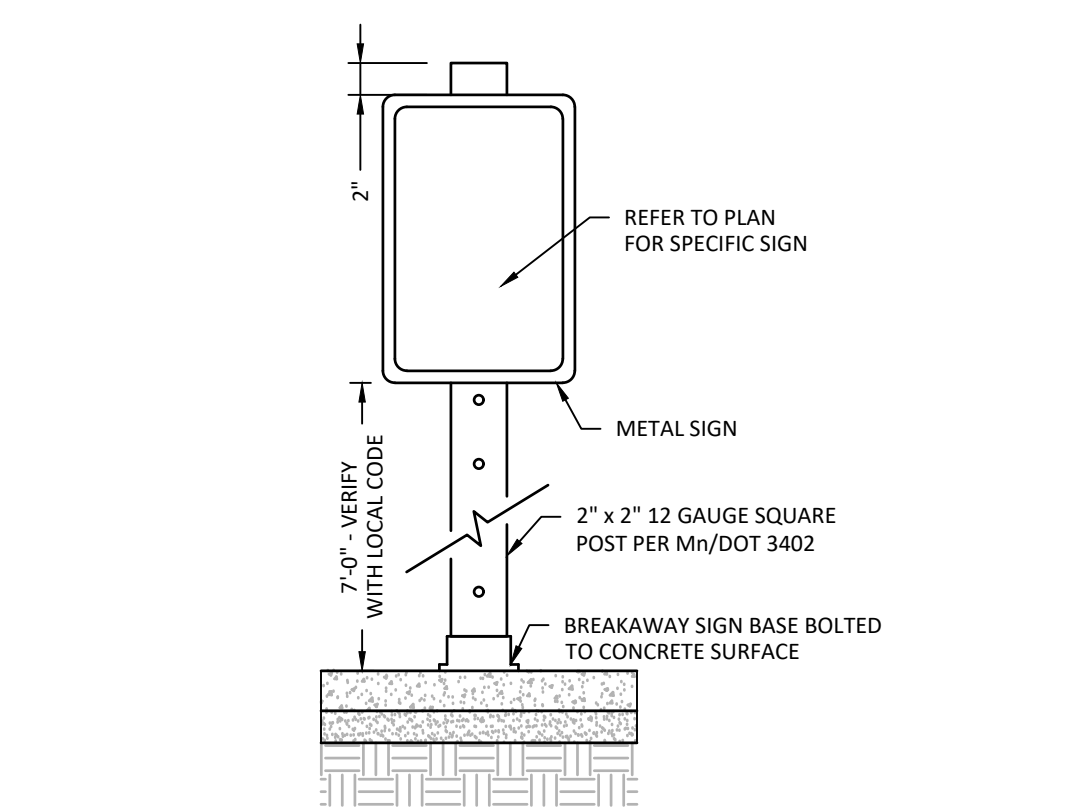
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8  
C5.04

DECIDUOUS TREE

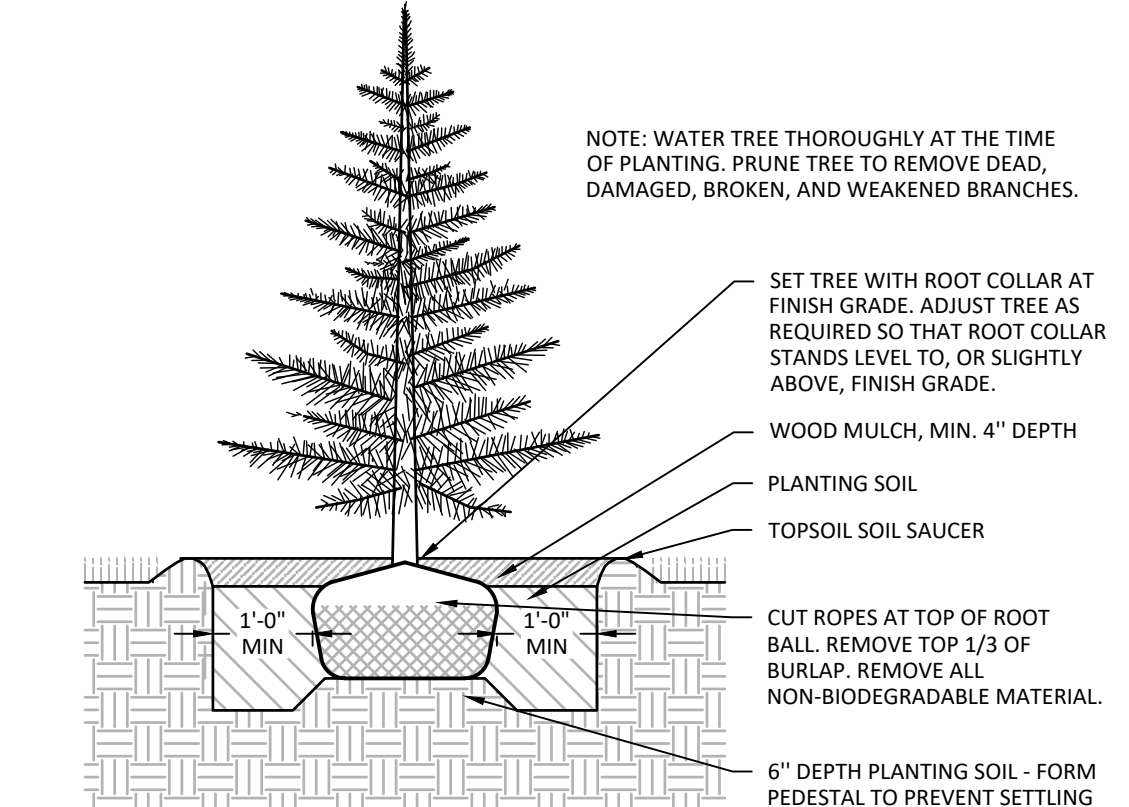
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3  
C5.04

TRAFFIC SIGN AND POST WITH BREAKAWAY BASE

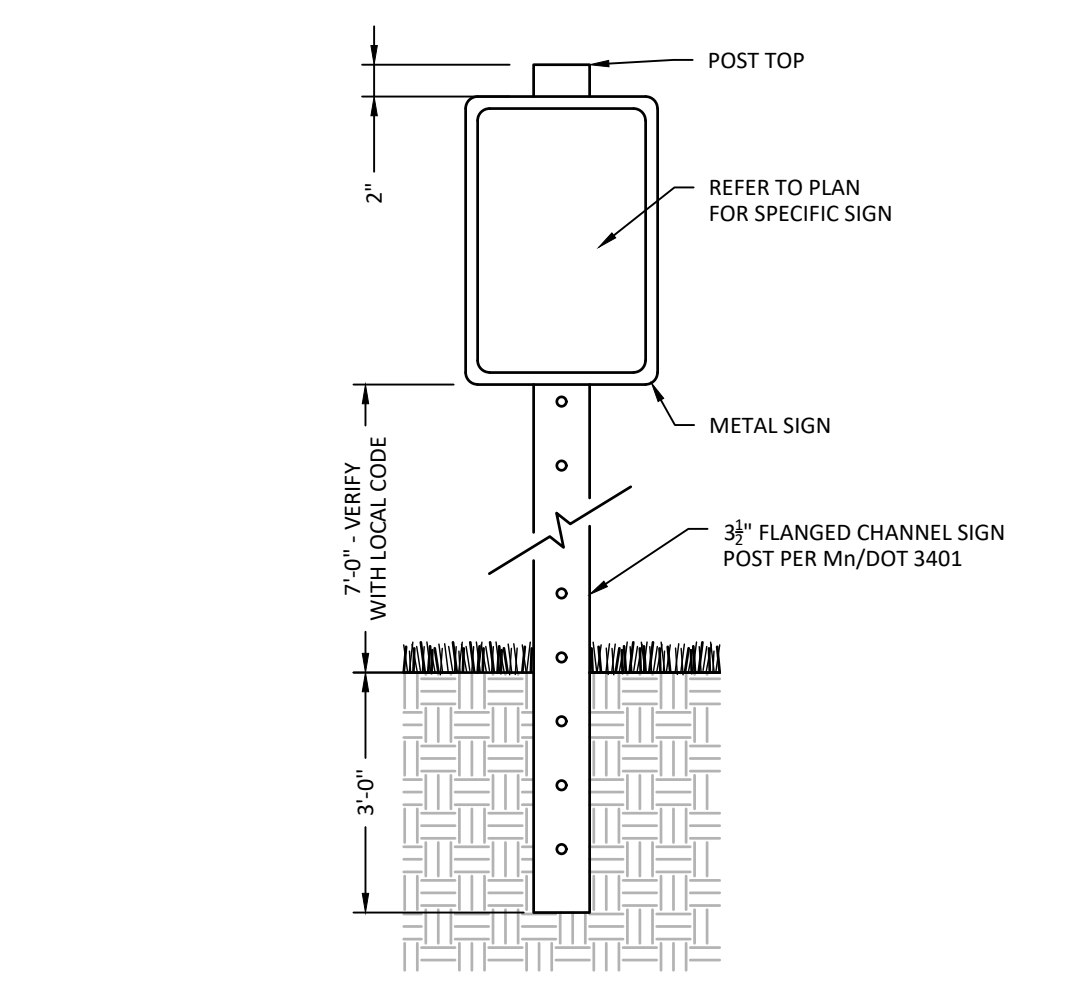
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9  
C5.04

CONIFEROUS TREE

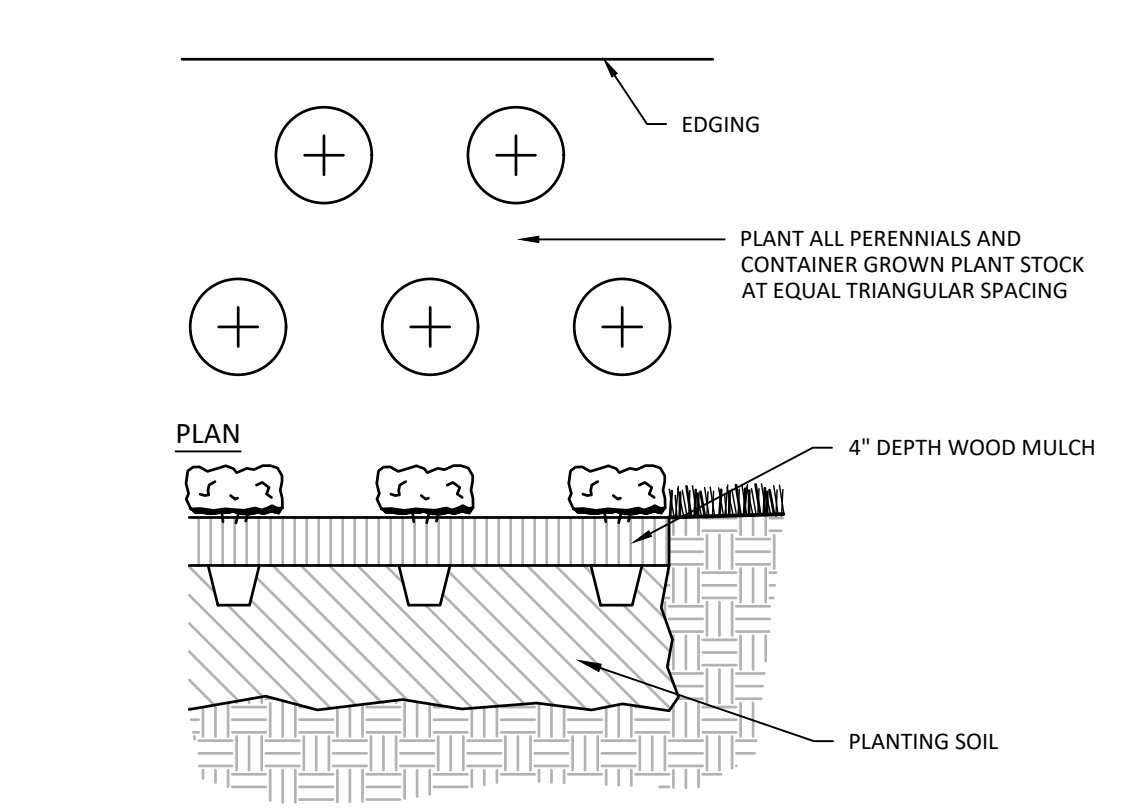
NOT TO SCALE



4  
C5.04

TRAFFIC SIGN AND POST IN GRASS

NOT TO SCALE



10  
C5.04

PERENNIALS AND CONTAINER GROWN PLANT STOCK

NOT TO SCALE



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**NORTHFIELD ICE ARENA**  
SHEET  
**CIVIL DETAILS**

**C5.04**