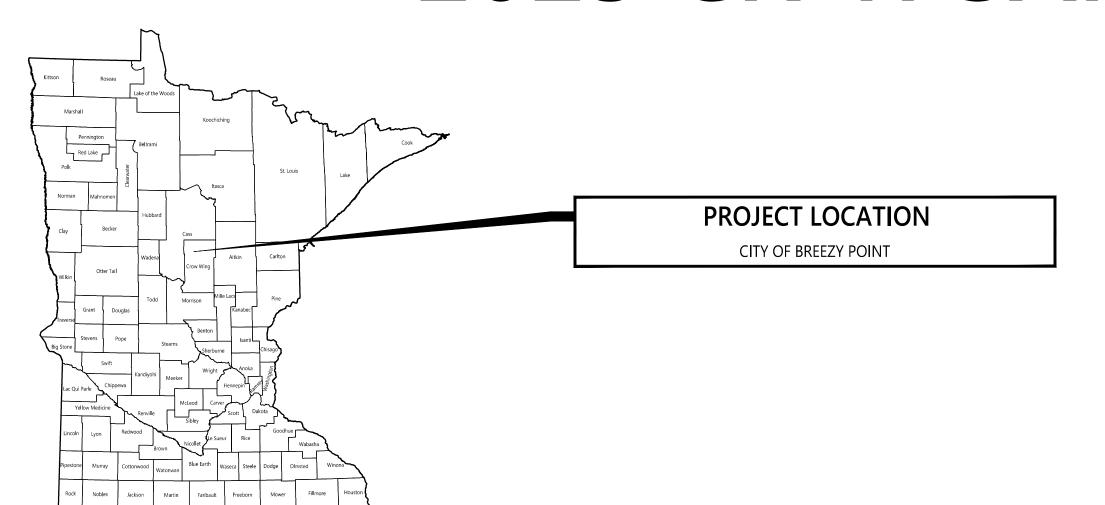
2025 CR-11 SANITARY SEWER EXTENSION

BREEZY POINT, MN JUNE, 2025





GOVERNING SPECIFICATIONS

E 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD

SHEET INDEX TABLE

SHEET NUMBERS	SHEET TITLE
1	TITLE SHEET
2	CIVIL PLAN LEGEND
3	STATEMENT OF ESTIMATED QUANTITIES
4	PHASING PLAN
5	TRAFFIC CONTROL NOTES
6	TRAFFIC CONTROL PLAN
7	TYPICAL SECTIONS
8 - 10	EROSION CONTROL NOTES
11	GUARDRAIL DETAILS
12	DETAILS
13	NOTES AND SCHEDULES
14	EXISTING CONDITIONS & REMOVALS
15	PLAN & PROFILE
16	EROSION CONTROL PLAN

THIS PLAN CONTAINS 16 SHEETS

05/30/2025

CITY OFFICIALS

MAYOR: TODD ROGGENKAMP

CITY COUNCIL: STEVE JENSEN MICHAEL MORONI

> REBECCA BALL **BRAD SCOTT**

CITY ADMINISTRATOR: JERRY BOHNSACK

PUBLIC WORKS SUPERVISOR JOE ZIERDEN

APPROVALS

RECOMMENDED FOR APPROVAL:

Nich Peterson

NICK PETERSON WIDSETH

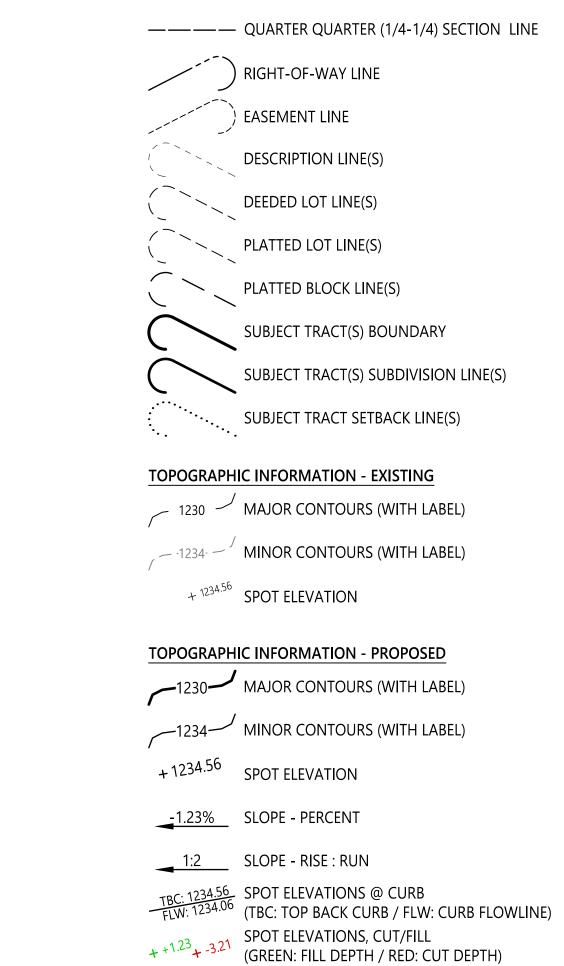
MAP SOURCE & YEAR: [YEAR] [MAP SOURCE] MAP DESCRIPTION: [DESCRIPTION OF MAP, I.E. PARTIAL MAP OF BAXTER, CROW WING COUNTY, MINNESOTA]

THIS PLAN PLAN CONTAINS COLOR GRAPHICS. BLACK AND WHITE PRINTS ARE NOT OFFICIAL SIGNED DOCUMENTS.



REVISIONS DESCRIPTION LIC. NO.: 23432 DATE: 05/30/2025

2025 CR-11 SANITARY SEWER EXTENSION TITLE SHEET



SURVEY MONUMENTS - FOUND

FOUND CAST IRON MONUMENT

FOUND JUDICIAL LAND MONUMENT

STAKED CAST IRON MONUMENT

STAKED JUDICIAL LAND MONUMENT

STAKED CONTROL POINT

STAKED IRON PIPE

——— QUARTER (1/4) SECTION LINE

FOUND CONTROL POINT

FOUND IRON PIPE

FOUND LATH

BENCHMARK

SURVEY MONUMENTS - STAKED

PROPERTY LINEWORK

—— SECTION LINE

/EGETATION SYMBOLS - EXISTING	SITE LINEWORK - EXISTING
SHRUB	BUILDING
STUMP	
** TREE - CONIFER	——— FENCE - CHAINLINK
TREE - DECIDUOUS	———— FENCE - WOOD
<u>الله</u> WETLAND	 RAILROAD
EGETATION LINEWORK - EXISTING	RETAINING WALL
EDGE OF WOODS	SITE SYMBOLS - PROPOSED
— · · · — EDGE OF WETLANDS	● FENCE POST
EGETATION SYMBOLS - PROPOSED	FLAG POLE
SHRUB	 GUARD POST (BOLLARD)
TREE - CONIFER	-● GUY POLE
TREE - DECIDUOUS	► GUY WIRE ANCHOR
	▼ MAILBOX
EGETATION LINEWORK - PROPOSED	SIGN - DOUBLE POST
· EDGE OF WOODS	SIGN - FIRE #
OADWAY/PAVEMENT LINEWORK - EXISTING	SIGN - SINGLE
BITUMINOUS PAVEMENT	
CONCRETE PAVEMENT	SITE LINEWORK - PROPOSED
CURB & GUTTER	BUILDING
GRAVEL PAVEMENT	
— – — ROADWAY/DRIVE/TRAIL CENTERLINE	——— FENCE - CHAINLINK
OADWAY/PAVEMENT LINEWORK - PROPOSED	———— FENCE - WOOD
BITUMINOUS PAVEMENT	RETAINING WALL
CONCRETE PAVEMENT	COMMUNICATION/TELECOM UTILITY SYMBOLS - EXISTING
CURB & GUTTER	H TELECOM HANDHOLE
GRAVEL PAVEMENT	TELECOM MANHOLE
— – — ROADWAY/DRIVE/TRAIL CENTERLINE	TELECOM PEDESTAL
	TELECOM POLE
TE SYMBOLS - EXISTING Service POST	H TV HANDHOLE
FLAG POLE	□ TV PEDESTAL
© GUARD POST (BOLLARD)	© ^{SD} SATELLITE DISH
GUY POLE	COMMUNICATION/TELECOM UTILITY LINEWORK - EXISTIN
>— GUY WIRE ANCHOR	— FOC — UNDERGROUND FIBER OPTIC CABLE
ACCESSIBLE PARKING MARKING	—— онт —— OVERHEAD TELEPHONE CABLE
	—— ugt —— UNDERGROUND TELEPHONE CABLE
	—— онс —— OVERHEAD TV CABLE
SIGN - DOUBLE POST	—— ugc —— UNDERGROUND TV CABLE
SIGN - SINGLE	3.12 <u>2.1313 3113 17 3/152</u> 2
○ SIGN - FIRE #	

		CATION/TELECOM UTILITY SYMBOLS - PROPOSED
	0	TELECOM MANUACIE
	0	TELECOM MANHOLE
		TELECOM PEDESTAL
	TV	TELECOM POLE
	•	TV HANDHOLE
	□ SD	TV PEDESTAL
	•	SATELLITE DISH
	COMMUNIC	CATION/TELECOM UTILITY LINEWORK - PROPOSED
	—— FOC —	— UNDERGROUND FIBER OPTIC CABLE
	—— UGT —	— UNDERGROUND TELEPHONE CABLE
	—— ОНС —	— OVERHEAD TV CABLE
	—— UGC —	— UNDERGROUND TV CABLE
	ELECTRICAL	. UTILITY SYMBOLS - EXISTING
	AC	AC UNIT
	G	GENERATOR
	∢	GROUND LIGHT (FLOODLIGHT)
	\bigoplus_{E}	HANDHOLE
	\Diamond	LIGHT POLE
	E	MANHOLE
	<u> </u>	ELECTRICAL METER
	E	PEDESTAL
	0	ELECTRIC POLE
١G	000	TRAFFIC SIGNAL
<u></u>		TRANSFORMER
	YARD	YARD LIGHT
	FI FCTRICAL	. UTILITY LINEWORK - EXISTING
		— OVERHEAD ELECTRIC WIRE
	UGE	— UNDERGROUND ELECTRIC WIRE
	FLECTRICAL	LITHETY CVMAPOLC - PROPOCED
		AC UNIT
ı. ı.c	G	GENERATOR
<u>ING</u>	— ∢	GROUND LIGHT (FLOODLIGHT)
	E	HANDHOLE
		LIGHT POLE
	·	MANHOLE
	L	ELECTRICAL METER
	_	PEDESTAL FLECTRIC DOLE
	_	ELECTRIC POLE
	000	TRAFFIC SIGNAL

—— ОНЕ ——	- OVERHEAD ELECTRIC WIRE
—— UGE ——	– UNDERGROUND ELECTRIC WIRE
NATURAL G	SAS UTILITY SYMBOLS - EXISTING
G	NATURAL GAS METER
\bowtie	NATURAL GAS VALVE
	LIQUID PROPANE (LP) TANK
NATURAL G	AS UTILITY LINEWORK - EXISTING
—— GAS ——	— NATURAL GAS MAIN PIPE
NATURAL G	SAS UTILITY SYMBOLS - PROPOSED
G	NATURAL GAS METER
\bowtie	NATURAL GAS VALVE
	LIQUID PROPANE (LP) TANK
NATURAL G	SAS UTILITY LINEWORK - PROPOSED
—— GAS —	— NATURAL GAS MAIN PIPE
SANITARY S	SEWER SYMBOLS - EXISTING
(AR)	AIR RELEASE MANHOLE
sco ⊗	CLEANOUT
LS	LIFT STATION WET WELL
(LSV)	LIFT STATION VALVE VAULT
(\$)	MANHOLE
S	VALVE (FORCEMAIN)
SANITARY S	SEWER LINEWORK - EXISTING
FM	- FORCE MAIN PIPE
>	— GRAVITY MAIN PIPE
ss	- SERVICE PIPE
SANITARY S	SEWER SYMBOLS - PROPOSED
AR	AIR RELEASE MANHOLE
SCO	CLEANOUT
	LIFT STATION WET WELL
LS	
LSV	LIFT STATION VALVE VAULT
	LIFT STATION VALVE VAULT MANHOLE
LSV	
S S	MANHOLE
©SV S S S S S S S S S S S S	MANHOLE VALVE (FORCEMAIN)
SANITARY S	MANHOLE VALVE (FORCEMAIN) SEWER LINEWORK - PROPOSED
SANITARY S	MANHOLE VALVE (FORCEMAIN) SEWER LINEWORK - PROPOSED FORCE MAIN PIPE

	CATCH BASIN
DCO ⊗	CLEANOUT
	CULVERT APRON
\oslash	INLET STRUCTURE
ST	MANHOLE
STORM SEV	VER LINEWORK - EXISTING
>	— GRAVITY MAIN PIPE
DT	— Subdrain (Draintile)
STORM SEV	VER SYMBOLS - PROPOSED
ST	CATCH BASIN
DCO	CLEANOUT
	INLET STRUCTURE
5	MANHOLE
STORM SEV	VER LINEWORK - PROPOSED
-	- GRAVITY MAIN PIPE
DT	— Subdrain (draintile)
WATER SYN	MBOLS - EXISTING
WCS W	CURB STOP
H	HANDHOLE
HYD	HYDRANT
\ YRD	YARD HYDRANT
W	MANHOLE
W	WATER METER
\bowtie^{W}	WATER MAIN VALVE
	WATER WELL
WATER LIN	EWORK - EXISTING
	— WATER MAIN PIPE
ws	— WATER SERVICE PIPE
	MBOLS - PROPOSED
WCS W	CURB STOP
B W	HANDHOLE
HYD	HYDRANT
W- YRD	YARD HYDRANT
W	MANHOLE
W	WATER METER
W	WATER MAIN VALVE
W	WATER WELL
WATER LIN	EWORK - PROPOSED
<u> </u>	— WATER MAIN PIPE

---- ws ---- WATER SERVICE PIPE

STORM SEWER SYMBOLS - EXISTING





REVISIONS DESCRIPTION

TRANSFORMER

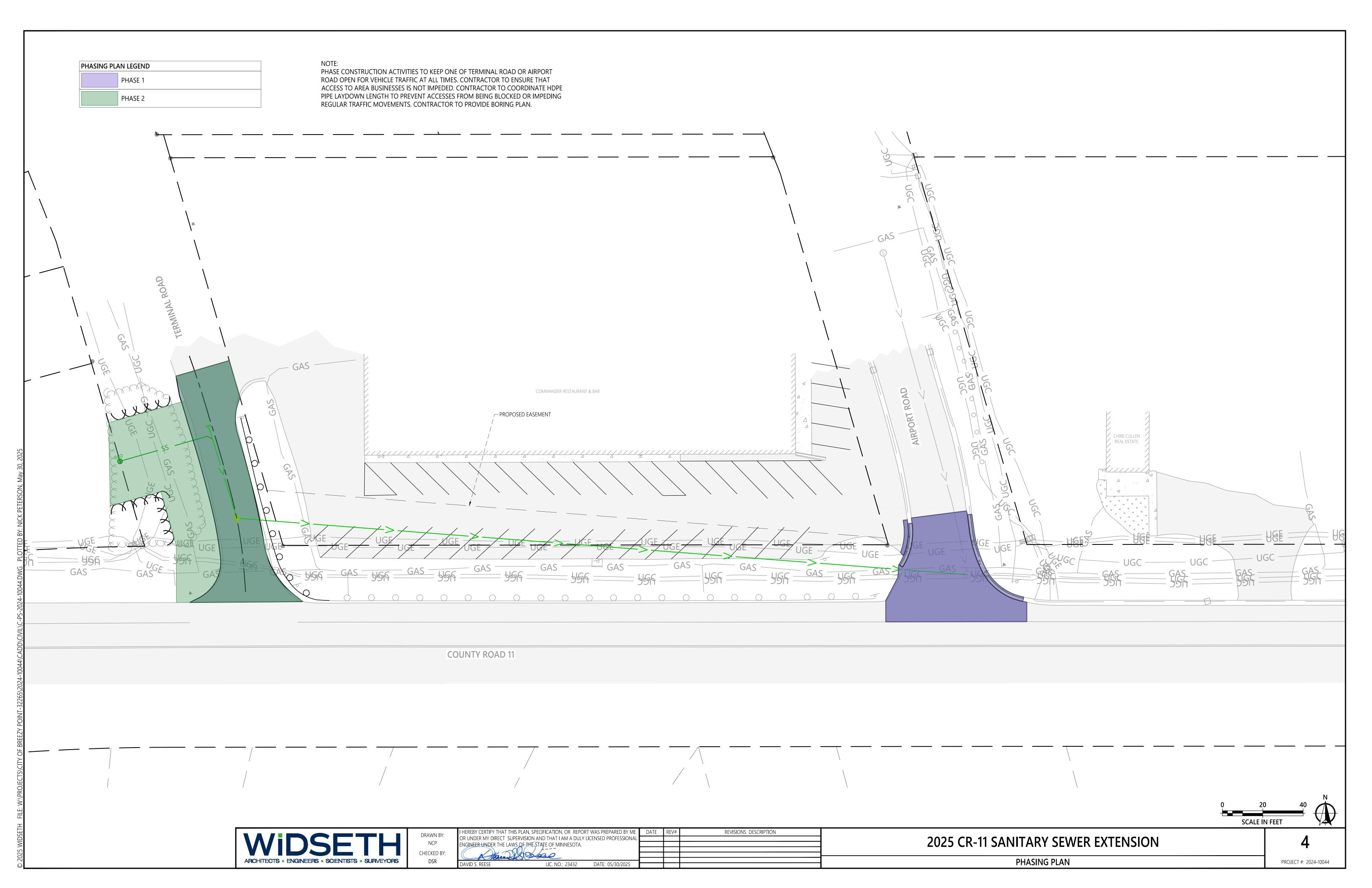
YARD LIGHT

LEGEND SHEET

ITEM NO.	NOTES	SPEC NO.	ITEM DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY
1		2021.501	MOBILIZATION	LUMP SUM	1
2	1	2101.502	CLEARING	ACRE	0.05
3	1	2101.502	GRUBBING	ACRE	0.05
4		2104.502	REMOVE CASTING (SANITARY)	EACH	1
5	2	2104.502	SALVAGE SIGN TYPE C	EACH	5
6	3	2104.503	REMOVE GUARDRAIL - TYPE 31	LIN FT	108
7	4	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	4
8	4	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	240
9		2104.503	REMOVE CURB & GUTTER	LIN FT	75
10		2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	583
11		2123.510	COMMON LABORERS	HOUR	10
12		2123.610	SKID LOADER	HOUR	10
13		2123.610	STREET SWEEPER (WITH PICKUP BROOM AND WATER)	HOUR	10
14	6	2211.507	AGGREGATE BASE CLASS 5 (CV)	CU YD	110
15	7, 8	2302.604	BITUMINOUS DRIVEWAY REPLACEMENT	SQ YD	4
16	15	2360.509	TYPE SP 9.5 WEARING COURSE MIX (2,C)	TON	59
17	15	2360.509	TYPE SP 12.5 NON-WEARING COURSE MIX (3,B)	TON	79
18	9	2503.601	TRACE WIRE SYSTEM (SANITARY)	LUMP SUM	1
19	9, 12, 14	2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	1
20	9, 12	2503.603	8" PVC PIPE SEWER	LIN FT	48
21	5, 9, 12	2503.603	8" HDPE PIPE SEWER - DIRECTIONALLY DRILLED	LIN FT	363
22	9, 12	2503.603	6" PVC SANITARY SERVICE PIPE	LIN FT	48
23	9, 12	2503.603	8"X6" PVC WYE	EACH	1
24	9, 12	2503.603	6" PVC CLEANOUT ASSEMBLY	EACH	1
25	9, 11	2506.502	CASTING ASSEMBLY (SANITARY 700-7)	EACH	2
26	12	2506.503	CONSTRUCT DRAINAGE STRUCTURE 48-4020 (SANITARY)	LIN FT	22.9
27		2531.503	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	75
28		2533.603	CONCRETE MEDIAN BARRIER (MOVEABLE)	EACH	12
29	16	2550.602	CORE DRILL SANITARY SEWER STRUCTURE	EACH	1
30	3	2554.503	INSTALL TRAFFIC BARRIER DESIGN TYPE 31	LIN FT	108
31		2563.601	TRAFFIC CONTROL	LUMP SUM	1
32		2564.602	INSTALL SIGN TYPE C	EACH	5
33		2573.502	STORM DRAIN INLET PROTECTION	EACH	4
34		2573.503	SILT FENCE, TYPE HI	LIN FT	154
35		2573.501	STABILIZED CONSTRUCTION EXIT	EACH	4
36	13	2574.507	SCREENED TOPSOIL BORROW	CU YD	118
37		2574.508	FERTILIZER TYPE 3	POUND	60
38		2575.505	SEEDING	ACRE	0.2
39		2575.608	SEED PATCH	POUND	6
40		2575.608	SEED NORTHERN BOULEVARD	POUND	30
41		2575.508	HYDRAULIC REINFORCED FIBER MATRIX	POUND	780

NOTES	
1	CONTRACTOR TO HAVE UNDERSTANDING OF TREES TO BE REMOVED IN THE AREA. ALL TREE REMOVALS TO BE PAID BY THE ACRE
2	INSTALL TEMP SIGNAGE FOR ANY SALVAGED TRAFFIC SIGNS
3	MINIMIZE REMOVALS OF GUARDRAIL POSTS NEAR COUNTY ROAD AS POSSIBLE IN ACCORDANCE WITH CONTRACOTS EXCAVATION AND GROUND SUPPORT PLAN
4	PAID ONE TIME, PROTECT SAWN EDGE, CONTRACTOR SHALL RE-SAW ANY DAMAGED SAWN EDGES
5	ANY DISTURBED AREA DUE TO HDD ACTIVITIES AND ASSOCIATED RESTORATION IS INCIDENTAL
6	SEE TYPICAL SECTIONS FOR AGGREGATE BASE THICKNESS, QUANITY INCLUDES SHOULDERING
7	PATCH TO MATCH EXISTING PAVEMENT THICKNESS
8	INCLUDES EXCAVATION OF AGGREGATE BASE, SHAPING AND COMPACTION, AGGREGATE BASE AND BITUMINOUS COURSES IN ACCORDANCE WITH THE APPLICABLE TYPICAL SECTION.
9	INSTALL TRACE WIRE IN ACCORDANCE WITH MINNESOTA RURAL WATER ASSOCIATION SPECS
10	RIM ELEVATION SHALL BE 1/2" BELOW FINAL GRADE, SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY TO SEAL CASTING AND RINGS
11	MnDOT CASTING 700-7 (NEEHAH R-1733) WITH SELF-SEALING SOLID COVER AND CONCEALED PICK HOLES.
12	ALL EXCAVATION, PIPE BEDDING, STRUCTURE BEDDING, DEWATERING, BACKFILLING, COMPACTION OR OTHER EARTHWORK ITEMS ARE INCIDENTAL TO THIS PAY ITEM
13	PLACED TOPSOIL SHALL BE 4" IN DEPTH IN ALL DISTURBED AREAS
14	TEMP. SANITARY SEWER BYPASS INCIDENTAL, CONTRACTOR TO SUBMIT BYPASS PUMPING PLAN IF NECESSARY
15	TACK COAT INCIDENTAL TO PAVING; TO BE APPLIED BETWEEN BITUMINOUS LIFTS AND ANY JOINT BETWEEN BITUNINOUS PAVEMENT AND CURB & GUTTER
16	ANY BENCH MODIFICATIONS IN EXISTING MANHOLE FOR PROPOSED FLOWLINE AND INV. ELEV. INCIDENTAL





NOTES & GUIDELINES

GENERAL INFORMATION:

- 1. THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN THE DEVICES IN THIS TRAFFIC CONTROL PLAN UNLESS OTHERWISE NOTED.
- 2. FIELD CONDITIONS MAY REQUIRE MODIFICATIONS OF THIS LAYOUT AS DEEMED NECESSARY BY THE ENGINEER. ALL DISTANCES ARE APPROXIMATE.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ANY WORK AREAS NEAR TRAFFIC IN ACCORDANCE WITH MN MUTCD.
- 4. SIGN PLACEMENTS SHALL NOT OBSTRUCT EXISTING SIGNS.
- 5. THE ITEM "TRAFFIC CONTROL" COVERS ALL DEVICES SHOWN ON THE PLAN SHEETS AND OTHER SETUPS REQUIRED BY THE CONTRACTOR'S OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR GETTING ACTUAL QUANTITIES NEEDED FOR THE PROJECT.
- 6. ALL DIAMOND SIGNS ARE 48" x 48".
- 7. IF THE CONTRACTOR DECIDES TO PERFORM THE CONSTRUCTION WORK IN A SEQUENCE OTHER THAN SHOWN IN THIS TRAFFIC CONTROL PLAN THE CONTRACTOR SHALL PROVIDE COMPLETE REVISED TRAFFIC CONTROL PLANS TO BE APPROVED THE THE ENGINEER.
- 8. TRAFFIC CONTROL MUST BE MODIFIED AS CONSTRUCTION ACTIVITIES PROGRESS TO ACCOMMODATE PHASING PLAN.
- 9. CONCRETE JERSEY BARRIERS MAY BE USED AS AN ADDITIONAL SAFETY DEVICE. EXTRA TRAFFIC CONTROL PAYMENT WILL NOT BE MADE UNLESS NOTED AND UNIT PRICE FOR JERSEY BARRIERS IS PROVIDED.

SIGNING:

- 1. ALL TRAFFIC CONTROL DEVICES, INCLUDING INCLUDING OVERHEAD SIGNS ON ROADS OPEN TO TRAFFIC THAT ARE NOT CONSISTENT WITH TRAFFIC OPERATION SHALL BE COVERED, REMOVED OR REVISED AS DIRECTED BY THE ENGINEER.
- 2. WHEN SIGNS ARE PLACED, THEY SHALL BE MOUNTED ON POSTS DRIVEN INTO THE GROUND AT THE PROPER HEIGHT AND LATERAL OFFSET AS SHOWN IN THE TYPICAL TEMP SIGN FRAMING & INSTALLATION DETAILS IN THE PLAN. IF THIS IS NOT POSSIBLE THEY WILL BE MOUNTED ON PORTABLE SUPPORTS AS APPROVED BY THE ENGINEER. WHEN SIGNS ARE REMOVED THE SIGN POSTS SHALL ALSO BE REMOVED AS SOON AS POSSIBLE.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXTRA SIGNING NEEDED TO FACILITATE TRAFFIC SWITCHES OR FOR TRANSITIONING TRAFFIC FROM ONE STAGE TO ANOTHER.
- 4. ALL ORANGE WARNING AND ORANGE GUIDE SIGNS SHALL BE FABRICATED WITH SIGN SHEETING MATERIAL AS LISTED ON THE MnDOT APPROVED PRODUCT LIST FOR "SHEETING FOR RIGID TEMPORARY WORK ZONE SIGNS".
- 5. BARRICADES SHALL BE FABRICATED WITH SIGN SHEETING MATERIAL AS LISTED ON THE MnDOT APPROVED PRODUCT LIST FOR BARRICADE SHEETING. NOTE THAT ASTM TYPE VII SHEETING IS NOT ALLOWED ON BARRICADES AFTER JANUARY 1, 2010.
- 6. LONGITUDINAL DROPOFFS SHALL BE SIGNED AS SHOWN IN THE "TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS" FIELD MANUAL UNLESS OTHERWISE SPECIFIED IN THESE PLANS.
- 7. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE FINAL SIGNS TO ASSURE THAT THE FINAL SIGNS ARE PLACED AS NEEDED. OR PROVIDE TEMPORARY SIGNING AT THEIR EXPENSE UNTIL THE FINAL SIGNING IS PLACED.

PAVEMENT MARKINGS:

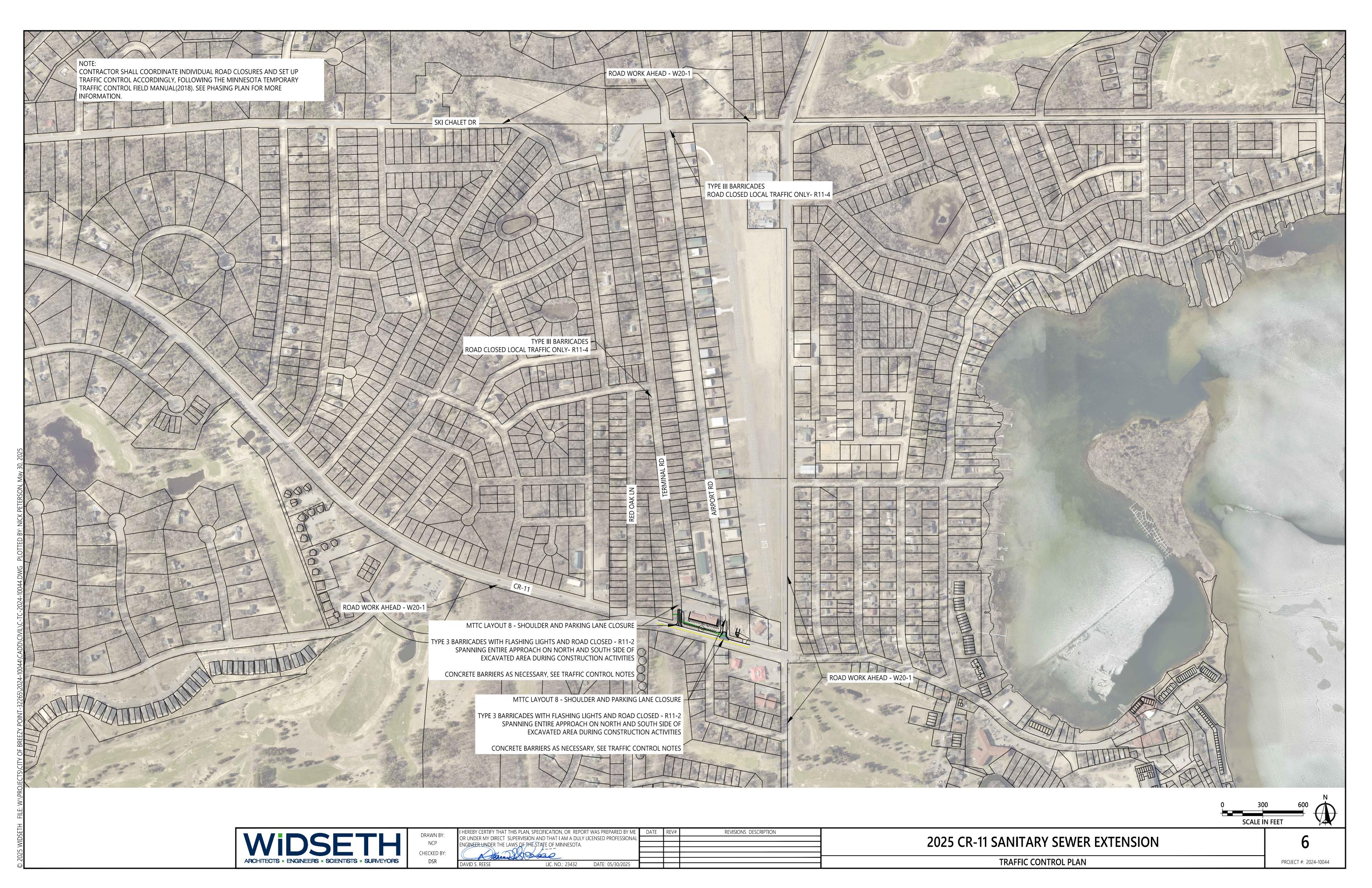
- 1. OBLITERATE ANY CONFLICTING PAVEMENT MARKINGS AS DIRECTED BY THE ENGINEER.
- 2. PAINT, POLYMER LANE TAPE AND/OR TRPM'S ARE ACCEPTABLE TEMPORARY STRIPING ALTERNATIVES ACCORDING TO ACTUAL CONDITIONS ENCOUNTERED AS DIRECTED BY THE ENGINEER. GENERALLY, ONLY PAINT WILL BE USED BEFORE MAY 1ST OR WHEN THE OTHER MANUFACTURERS' SPECIFICATIONS CAN NOT BE MET.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND INSTALLATION OF TEMPORARY AND FINAL STRIPING.

		"W" SERIES	
SIGN	SIGN NO.	COLOR	SIZE
ROAD WORK AHEAD	W20-1	BLACK ON ORANGE	48" x 48"

		"R" SERIES	
SIGN	SIGN NO.	COLOR	SIZE
ROAD CLOSED	R11-2	BLACK ON WHITE	48" x 30"
ROAD CLOSED TO THRU TRAFFIC	R11-4	BLACK ON WHITE	60" x 30"
ROAD CLOSED LOCAL TRAFFIC ONLY	R11-4	BLACK ON WHITE	60" x 30"

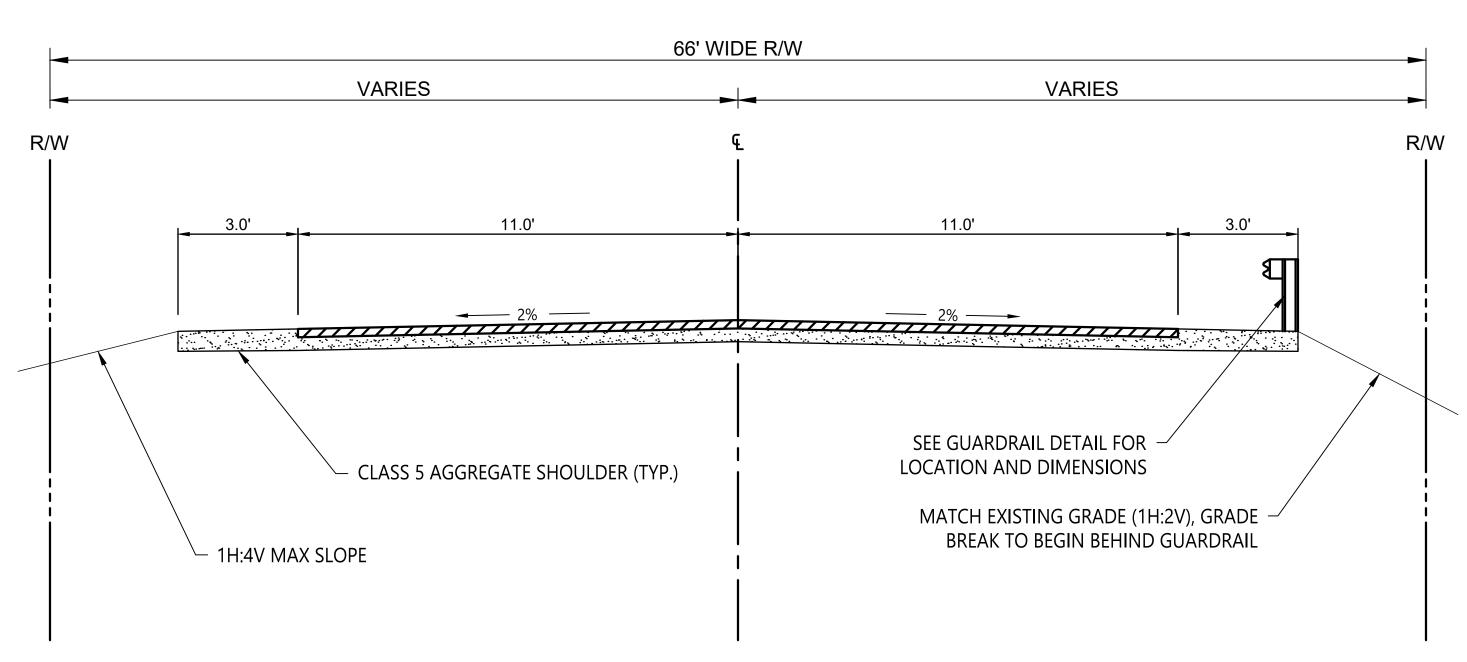
		DEVICES	
ITEM	SIGN NO.	COLOR	SIZE
	TYPE III		4' x 8'
*	TYPE A FLASHING LIGHT		
	REINFORCEI MEDIAN BAR		

LIC. NO.: 23432 DATE: 05/30/2025



TERMINAL ROAD EXISTING TYPICAL SECTION

NOT TO SCALE



TERMINAL ROAD PROPOSED TYPICAL SECTION NOT TO SCALE

1.5" TYPE SP 9.5 BITUMINOUS WEARING ☐ COURSE, (SPWEA340C) BITUMINOUS TACK COAT \dashv 2" TYPE SP 12.5 BITUMINOUS WEARING — COURSE, (SPNWB330B) 5" AGGREGATE CLASS 5 — SCARIFY & COMPACT SUBGRADE

TERMINAL RD & AIRPORT RD PAVING SECTION

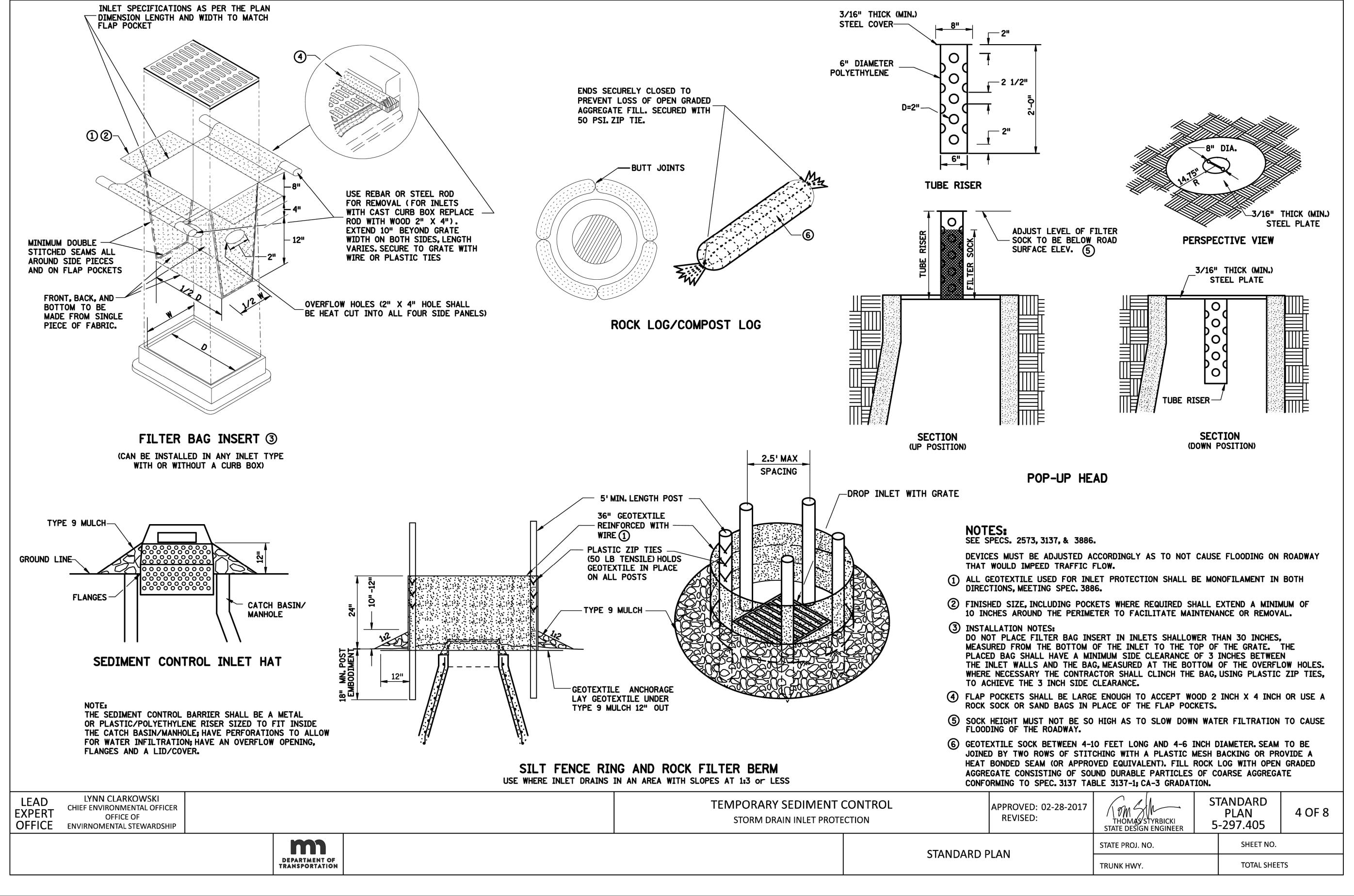
SCALE: NONE

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. LIC. NO.: 23432 DATE: 05/30/2025

REVISIONS DESCRIPTION

2025 CR-11 SANITARY SEWER EXTENSION

TYPICAL SECTIONS

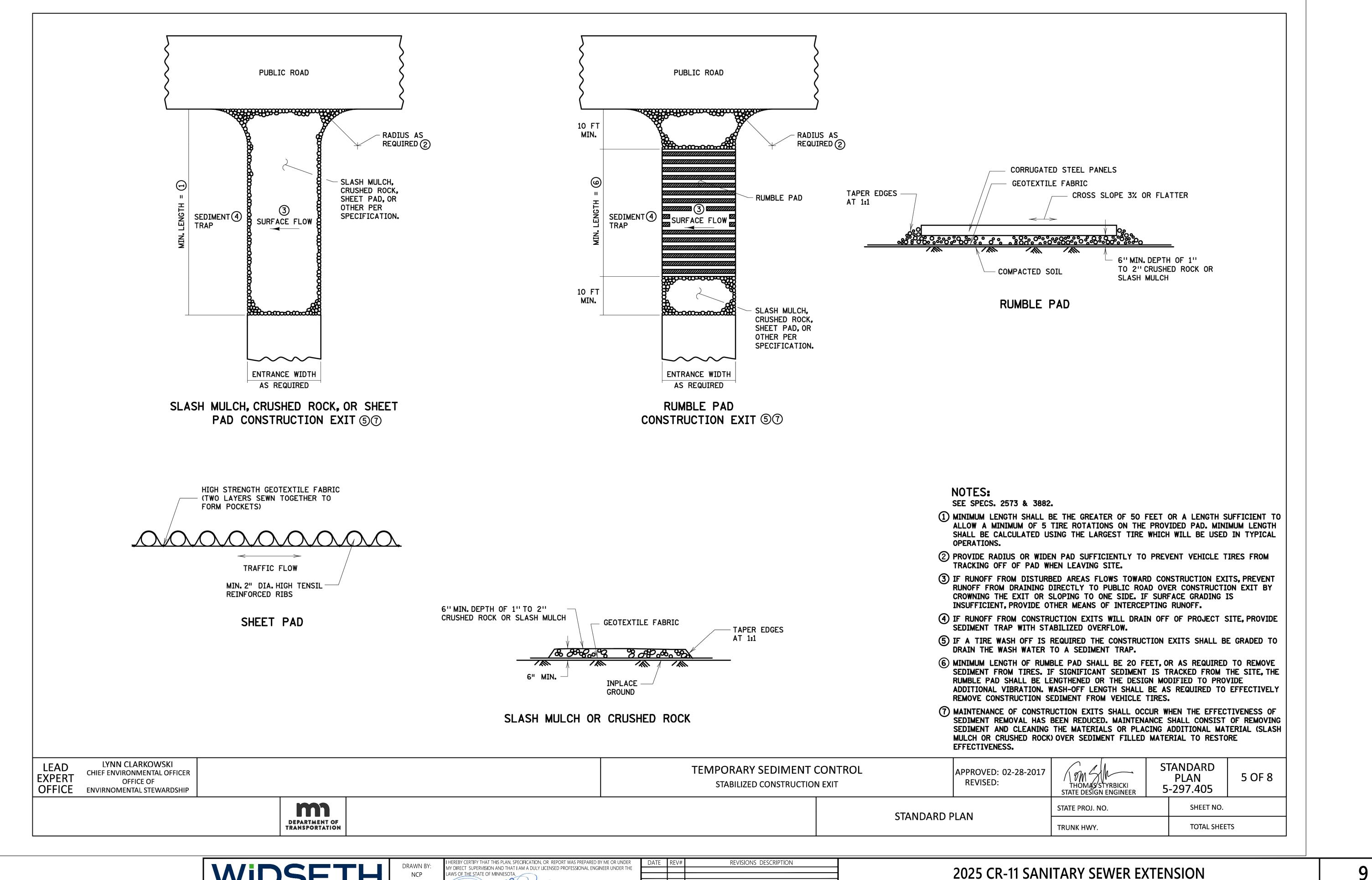


DRAWN BY AWS OF THE STATE OF MINNESOTA. CHECKED BY:

HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER Y DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THI DAVID S. REESE LIC. NO.: 23432 DATE: 05/30/2025 REVISIONS DESCRIPTION

2025 CR-11 SANITARY SEWER EXTENSION

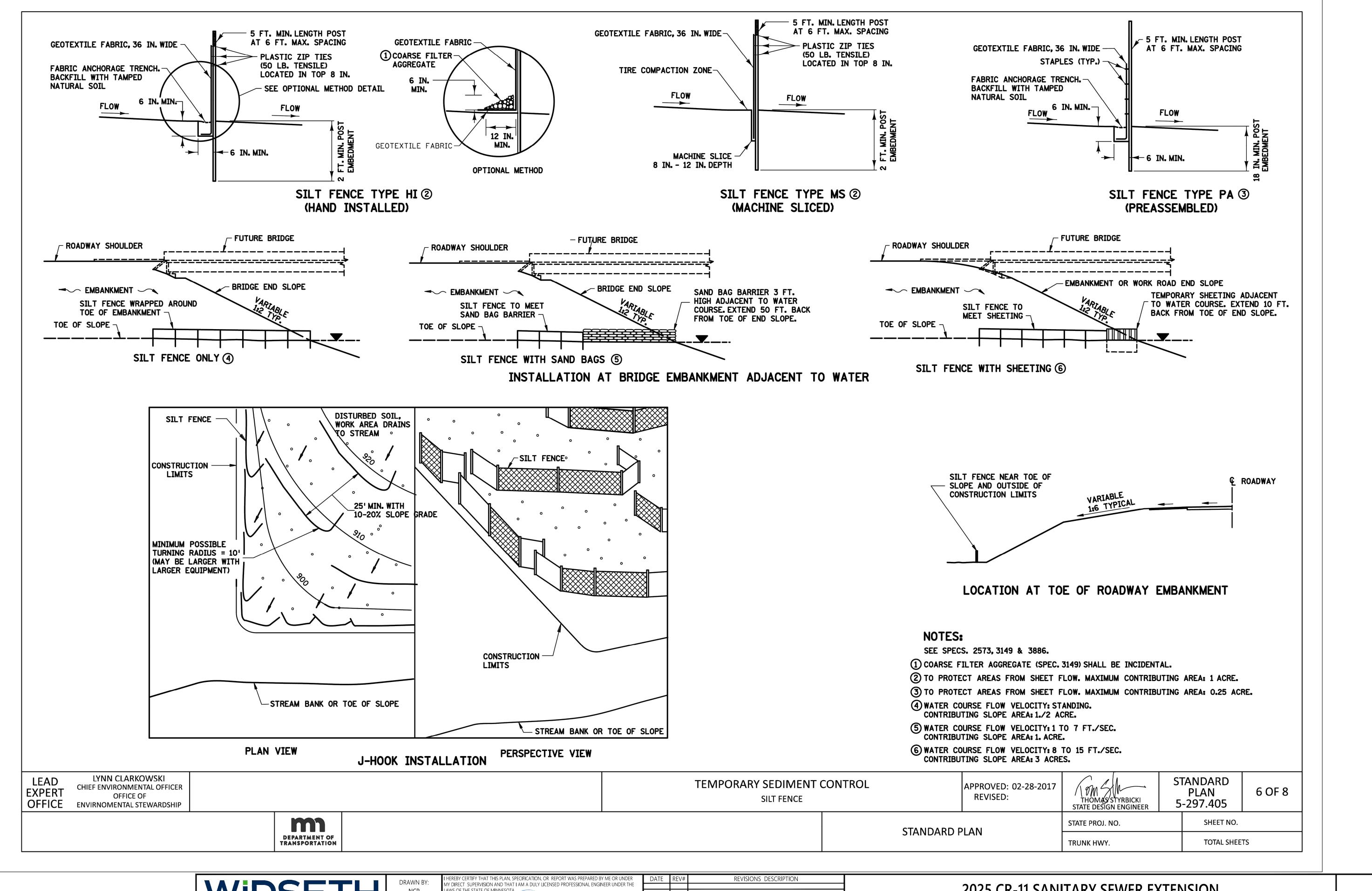
EROSION CONTROL DETAILS



CHECKED BY:

DAVID S. REESE LIC. NO.: 23432 DATE: 05/30/2025

EROSION CONTROL DETAILS



ARCHITECTS = ENGINEERS = SCIENTISTS = SURVEY

PRAWN BY:
NCP
HECKED BY:
DSR

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.

DAVID S. REESE

LIC. NO.: 23432

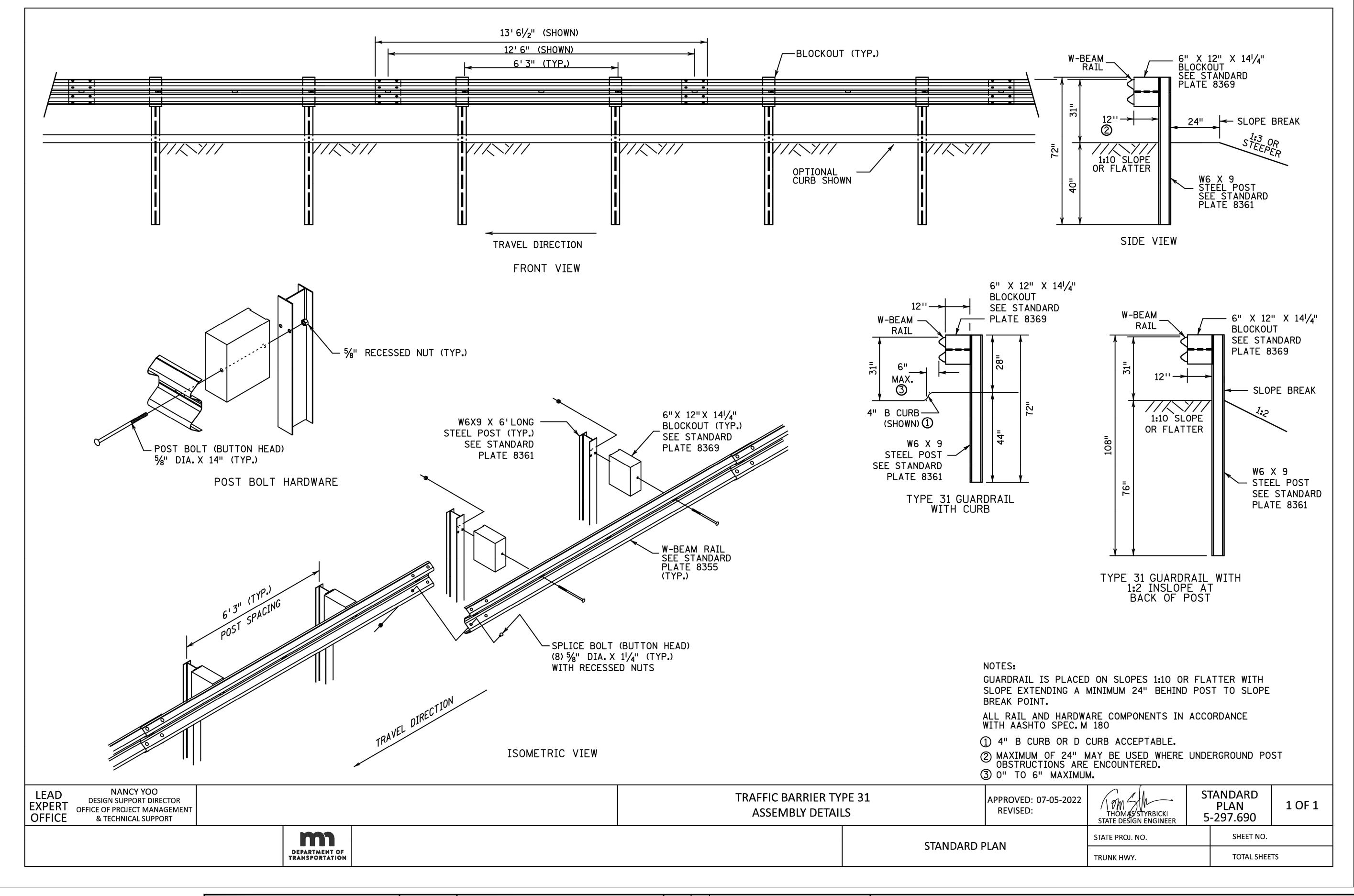
DATE: 05/30/2025

DATE REV# REVISIONS DESCRIPTION

2025 CR-11 SANITARY SEWER EXTENSION

EROSION CONTROL DETAILS

10



WIDSETH
RCHITECTS - ENGINEERS - SCIENTISTS - SURVEYORS

DRAWN BY:
NCP
CHECKED BY:
DSR

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.

DAVID S. REESE

LIC. NO.: 23432

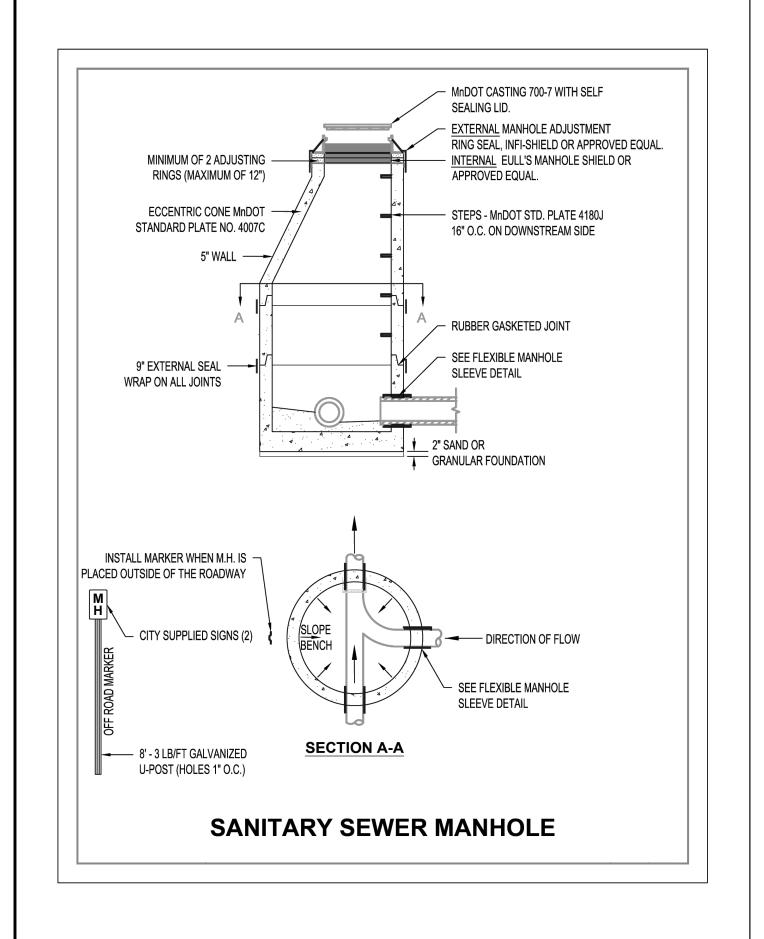
DATE: 05/30/2025

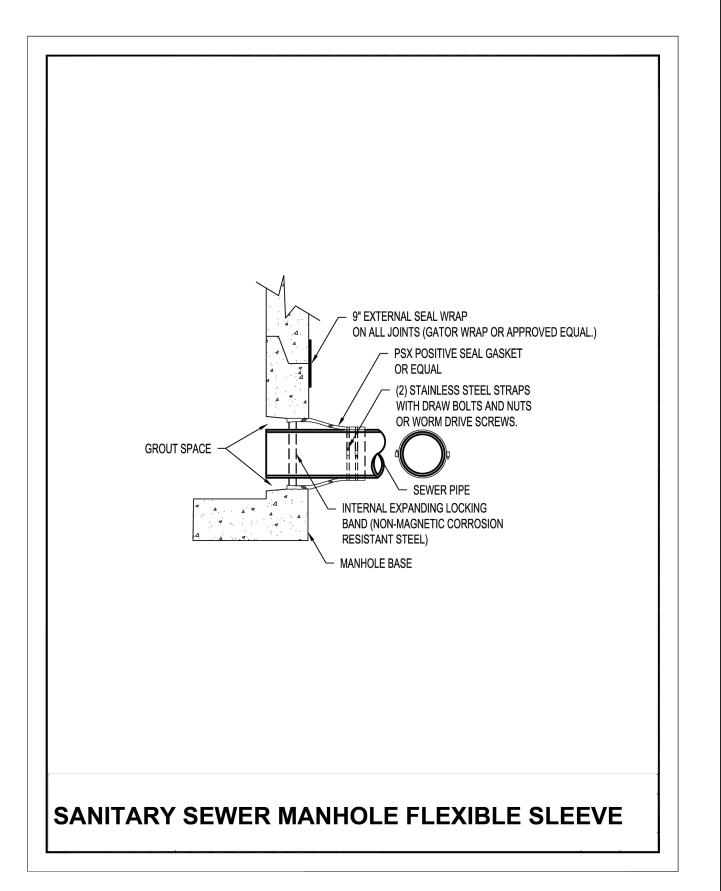
REV# REVISIONS DESCRIPTION

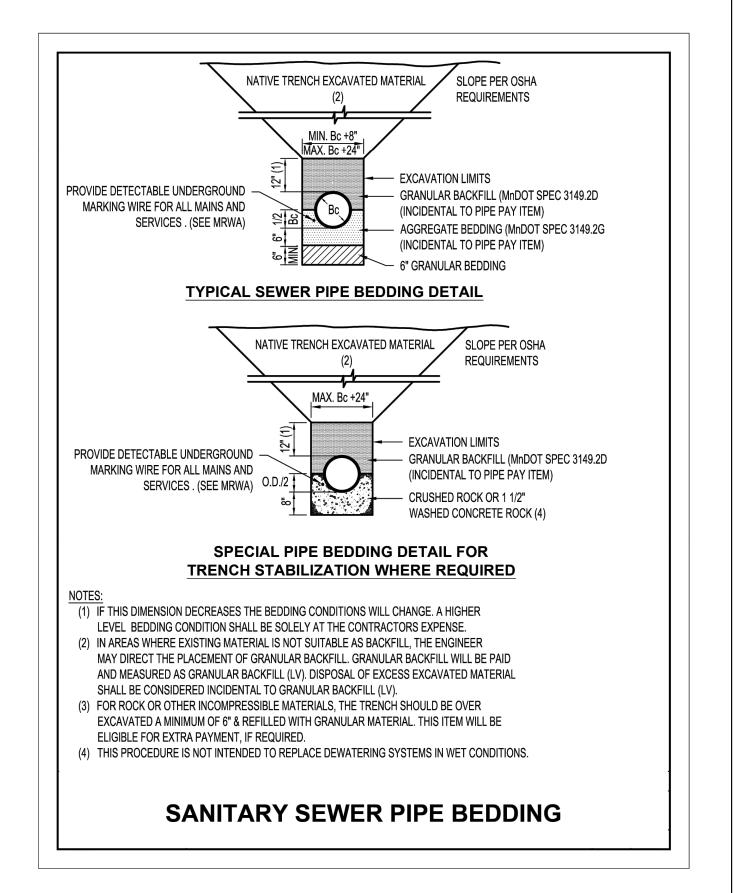
2025 CR-11 SANITARY SEWER EXTENSION

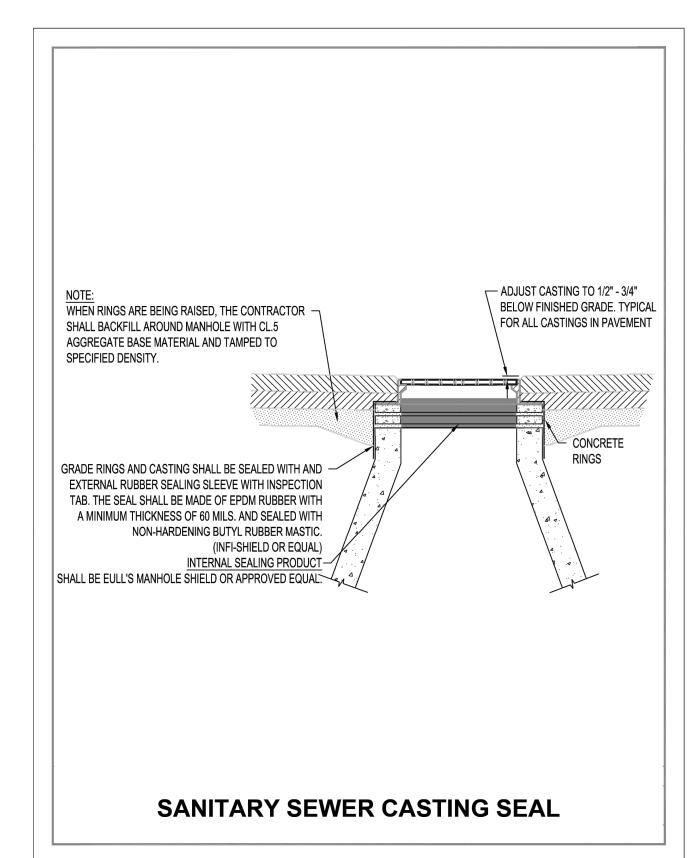
GUARDRAIL DETAILS

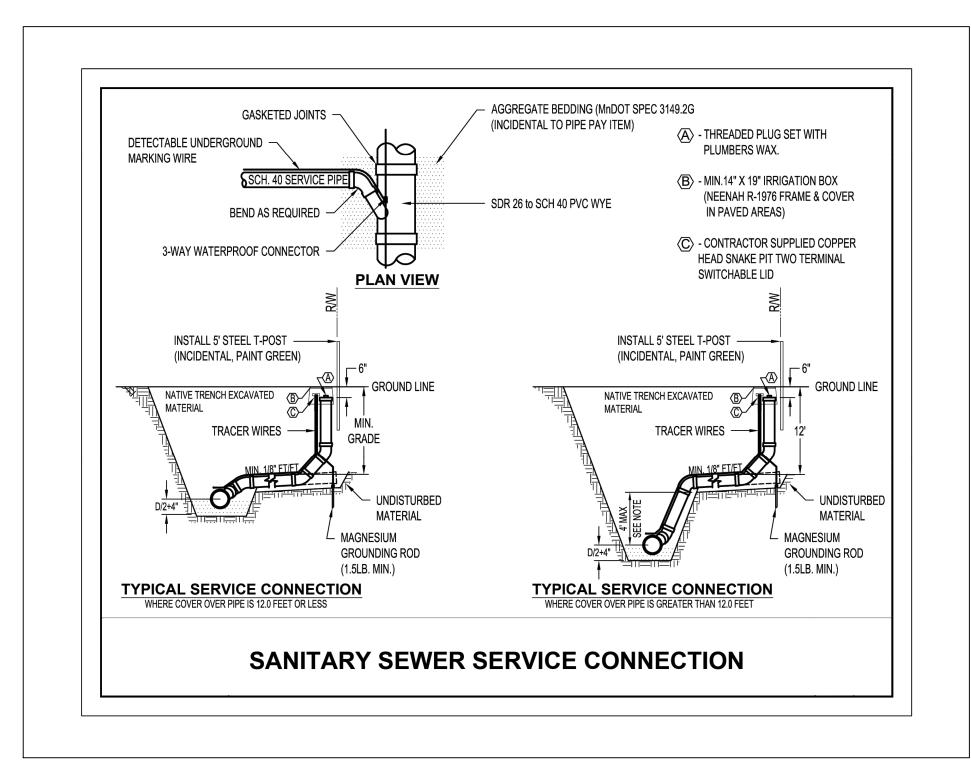
•

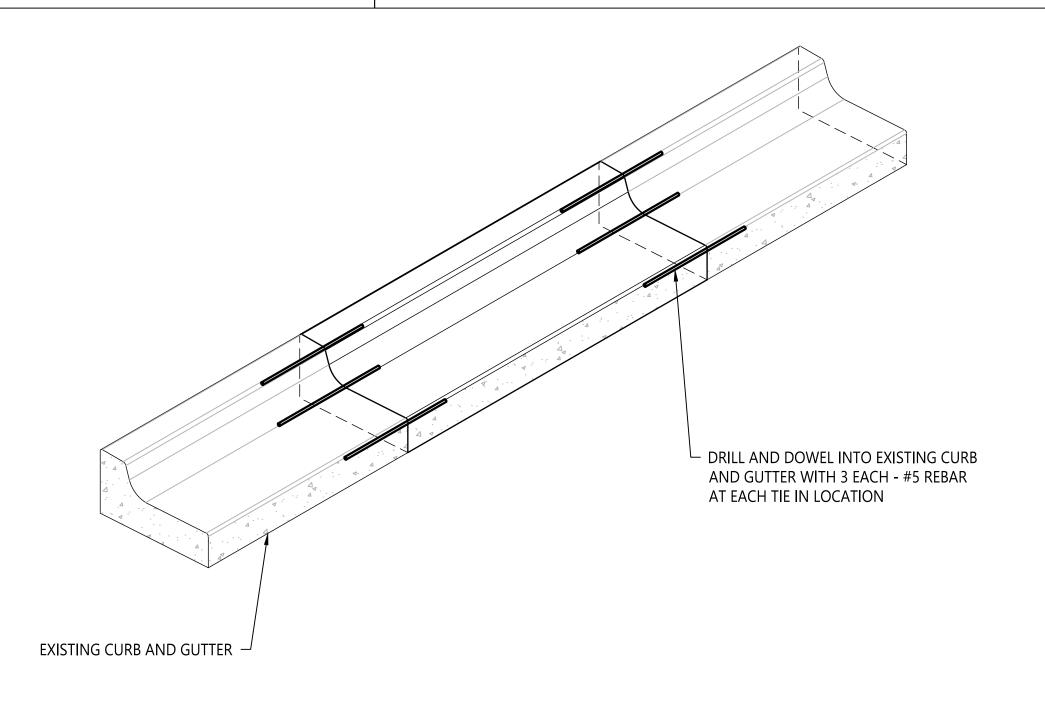












CURB & GUTTER REPLACEMENT DETAIL

SCALE: NONE

WIDSETH
ARCHITECTS = ENGINEERS = SCIENTISTS = SURVEYORS

DRAWN BY:
NCP
CHECKED BY:
DSR

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.

DAVID S. REESE

LIC. NO.: 23432

DATE: 05/30/2025

TE REV# REVISIONS DESCRIPTION

2025 CR-11 SANITARY SEWER EXTENSION

DETAILS

12

GENERAL CONSTRUCTION NOTES

- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY OWNER OF ANY DIFFERENCES BETWEEN THE FIELD AND PLAN.
- UNLESS OTHERWISE NOTED, ALL MATERIALS, CONSTRUCTION
 TECHNIQUES AND TESTING SHALL CONFORM TO THE CURRENT EDITION
 OF THE "STANDARD SPECIFICATIONS FOR TRENCH EXCAVATION AND
 BACKFILL/SURFACE RESTORATION, WATERMAIN AND SERVICE LINE
 INSTALLATION AND SANITARY SEWER AND STORM SEWER
 INSTALLATION" AS PUBLISHED BY THE CITY ENGINEERS ASSOCIATION OF
 MINNESOTA AND THE "STANDARD SPECIFICATIONS FOR
 CONSTRUCTION" AS PUBLISHED BY THE MINNESOTA DEPARTMENT OF
 TRANSPORTATION, CURRENT EDITION. THE CONTRACTOR SHALL
 REQUIRE ALL PROCEDURES AS OUTLINED BY THE LOCAL AGENCY.
- THE CONTRACTOR SHALL RECEIVE THE NECESSARY
 PERMISSION/PERMITS FOR ALL WORK LOCATED OUTSIDE OF THE
 MUNICIPAL RIGHT-OF-WAY AND PROPERTY LIMITS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING INVERT LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL ENSURE ONE OF EITHER AIRPORT ROAD OR TERMINAL ROAD REMAIN ACCESSIBLE TO TRAFFIC AT ALL TIMES. SEE PHASING PLAN.

GENERAL DEMOLITION & REMOVAL PLAN NOTES

- THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02. ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".
- PRIVATE UTILITY LOCATES ARE TO BE COORDINATED WITH THE ENGINEER. THE PRIVATE LOCATES WILL BE DONE BY GOPHER STATE ONE CALL. ALL EROSION CONTROL MEASURES AS SHOWN ON THE EROSION CONTROL PLAN ARE TO BE IN PLACE PRIOR TO BEGINNING REMOVALS.
- CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, CONCRETE PAVEMENT, BITUMINOUS PAVEMENT, BUILDINGS, LIGHT POLES & BASES, ETC. NOT NOTED FOR DEMOLITION & REMOVAL DURING REMOVALS. ANY DAMAGED STRUCTURES TO REMAIN SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER.
- CONTRACTOR SHALL USE APPROPRIATE SHORING TECHNIQUES IN ORDER TO PRESERVE COUNTY ROADBED. ANY DISTURBANCE TO COUNTY ROADBED IS UNNACEPTABLE.
- ANY DAMAGE TO SHOULDER OF COUNTY ROAD, ASIDE FROM WHAT IS INDICATED IN THE PLAN, SHALL BE REMOVED TO THE FOG LINE AND REPLACED FULL WIDTH WITH SQUARE SAWCUTS.
- ALL SAWCUT EDGES IN CONCRETE PAVEMENT AND BITUMINOUS
 PAVEMENT SHALL BE PROTECTED AFTER REMOVALS THROUGH THE
 DURATION OF THE PROJECT. PAYMENT FOR SAWCUTTING WILL BE
 MADE ONLY ONCE. ADDITIONAL SAWCUTTING TO MAINTAIN A CLEAN
 SAWCUT EDGE WILL BE AT THE EXPENSE OF THE CONTRACTOR.
- ALL MATERIALS IDENTIFIED FOR REMOVAL SHALL BE DISPOSED OFF SITE IN ACCORDANCE WITH STATE AND LOCAL LAWS.

GENERAL SITE PLAN NOTES:

- THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY
 QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING
 TO THE GUIDELINES OF CI/ASCE 38.2, ENTITLED "STANDARD GUIDELINES
 FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE
 UTILITY DATA".
- CONTRACTOR SHALL CALL GOPHER STATE ONE CALL PRIOR TO BEGINNING REMOVALS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY OWNER AND ENGINEER OF ANY DIFFERENCES BETWEEN THE FIELD AND PLAN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL AND SHALL BE IN COMPLIANCE WITH THE MINNESOTA UNIFORM TRAFFIC CONTROL DEVICES MANUAL AND TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS FIELD MANUAL. THE TRAFFIC CONTROL SHALL BE APPROVED BY THE CITY PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL RECEIVE THE NECESSARY
 PERMISSION/PERMITS FOR ALL WORK LOCATED OUTSIDE OF THE
 MUNICIPAL RIGHT-OF-WAY AND PROPERTY LIMITS.
- ALL CURB TO MEET MINNESOTA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR A TYPE "B618 CURB & GUTTER", UNLESS PLANS ARE MARKED OTHERWISE.
- ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

GENERAL UTILITY NOTES

- THE ENGINEER HAS MADE AN ATTEMPT TO SHOW ALL PUBLIC UTILITIES
 WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT. PUBLIC UTILITIES
 SHOWN ON THIS PLAN WERE DRAWN USING FIELD SURVEY
 INFORMATION AND MAPS PROVIDED TO THE ENGINEER BY THE UTILITY
 COMPANIES AS A RESULT OF A GOPHER STATE ONE CALL DESIGN LOCATE
 REQUEST. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE
 LOCATIONS PRIOR TO BIDDING AND CONSTRUCTING THE PROJECT.
- PRIVATE UTILITY LOCATES ARE TO BE COORDINATED WITH THE ENGINEER. THE PRIVATE LOCATES WILL BE DONE BY GOPHER STATE ONE CALL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION LOCATES AND SHALL NOTIFY ALL AFFECTED UTILITY COMPANIES AT LEAST 48-HOURS BEFORE CONSTRUCTION.
- UNLESS OTHERWISE NOTED, ALL MATERIALS, CONSTRUCTION
 TECHNIQUES AND TESTING SHALL CONFORM TO THE CURRENT EDITION
 OF THE "STANDARD SPECIFICATIONS FOR TRENCH EXCAVATION AND
 BACKFILL/SURFACE RESTORATION, WATERMAIN AND SERVICE LINE
 INSTALLATION AND SANITARY SEWER AND STORM SEWER
 INSTALLATION" AS PUBLISHED BY THE CITY ENGINEERS ASSOCIATION OF
 MINNESOTA AND THE "STANDARD SPECIFICATIONS FOR
 CONSTRUCTION" AS PUBLISHED BY THE MINNESOTA DEPARTMENT OF
 TRANSPORTATION, CURRENT EDITION. THE CONTRACTOR SHALL BE
 REQUIRED TO FOLLOW ALL PROCEDURES AS OUTLINED BY THE LOCAL
 AGENCY AND THE MINNESOTA PLUMBING CODE. THE CONTRACTOR
 SHALL REQUIRE ALL PROCEDURES AS OUTLINED BY THE LOCAL AGENCY.
- THE CONTRACTOR SHALL RECEIVE THE NECESSARY PERMITS FOR ALL WORK OUTSIDE THE PROPERTY LIMITS.
- COORDINATE SERVICE LOCATION ENTRIES WITH THE MECHANICAL ENGINEER.
- RIM ELEVATIONS REFLECT A SUMP OF 0.05 FEET.
- CONTRACTOR SHALL INSTALL TRACER WIRE ACCORDING TO MINNESOTA RURAL WATER ASSOCIATION TRACER WIRE SPECIFICATION FOR WATER AND SANITARY SERVICES.

GENERAL EROSION CONTROL NOTES

- THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-.2, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".
- ALL CONSTRUCTION SHALL CONFORM TO LOCAL, STATE, AND FEDERAL REGULATIONS INCLUDING THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPPDES) PERMIT REQUIREMENTS.
- ALL SILT FENCE AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY EXCAVATION/CONSTRUCTION AND SHALL BE MAINTAINED UNTIL VIABLE TURF OR GROUND COVER HAS BEEN ESTABLISHED. MAINTENANCE AND REMOVAL OF SEDIMENT CONTROL DEVICES SHALL BE INCIDENTAL TO THE GRADING CONTRACT.
- ALL STREETS UTILIZED FOR PROJECT CONSTRUCTION MUST BE CLEANED AT THE END OF EACH DAY. A ROCK ENTRANCE TO THE SITE MUST BE PROVIDED ACCORDING TO THE DETAILS TO REDUCE TRACKING OF SEDIMENT ONTO PUBLIC STREETS. STREET SWEEPING MAY BE NECESSARY AND WILL BE CONSIDERED INCIDENTAL.
- ALL EXPOSED SOILS MUST BE STABILIZED WITHIN 14 CALENDAR DAYS
 OF ROUGH GRADE COMPLETION OF AFTER CONSTRUCTION
 TERMINATES. ALL STOCKPILES SHALL HAVE ADEQUATE SEDIMENT
 TRAPPING SYSTEMS INSTALLED AROUND THEM.
- ALL AREAS TO BE ESTABLISHED TO GRASS COVER SHALL RECEIVE 4" OF TOPSOIL AND SOD OR SEED. THESE AREAS SHALL BE WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- INLET PROTECTION SHALL BE INSTALLED AT ALL STORM SEWER INLETS WHICH HAVE A POTENTIAL TO RECEIVE RUNOFF FROM THE CONSTRUCTION SITE.
- INFILTRATION AREA SHALL BE PROTECTED FROM CONSTRUCTION
 ACTIVITIES TO AVOID COMPACTION OF THE SOILS. IT IS
 RECOMMENDED THIS AREA BE FENCED OFF AND NOT UTILIZED FOR
 CONSTRUCTION STAGING, STOCKPILING MATERIALS, OR ANY OTHER
 CONSTRUCTION RELATED ACTIVITY. THE INFILTRATION AREA SHALL BE
 SHAPED TO FINAL GRADE AND ALL HEAVY CONSTRUCTION EQUIPMENT
 SHALL NOT BE ALLOWED IN THE BASIN.
- SEE PLAN LEGEND FOR A COMPLETE LIST OF HATCHES AND SYMBOLS USED FOR EROSION CONTROL.

DAVID S. REESE

GENERAL TRAFFIC CONTROL NOTES

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM CONTROL DEVICES, CURRENT EDITION AND TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS (FIELD MANUAL), CURRENT EDITION.
- THE EXACT LOCATION OF TRAFFIC CONTROL DEVICES WILL BE DETERMINED BY THE CONTRACTOR, SUBJECT TO THE APPROVAL OF THE ENGINEER.
- ALL TRAFFIC CONTROL DEVICES SHOWN, ON THE "TRAFFIC CONTROL PLAN", THIS SHEET, UNLESS OTHERWISE INDICATED, SHALL BE FURNISHED, INSTALLED, MAINTAINED, REMOVED BY, AND REMAIN PROPERTY OF CONTRACTOR.
- UNLESS OTHERWISE DIRECTED BY THE ENGINEER, ALL SIGNS SHOWN (EXCEPT BARRICADE MOUNTED SIGNS) SHALL BE FASTENED TO TWO UPRIGHT POSTS EXTENDED FROM TWO DRIVEN GROUND POSTS. ALL SIGNS SHALL CONFORM TO THE HEIGHT REQUIREMENTS OF THE FIRST PARAGRAPH OF SECTION 2A - 23 OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- ALL WARNING SIGNS SHALL HAVE BLACK LETTERS ON ORANGE COLORED, DIAMOND GRADE, RETROFLECTIVE SHEETING. REGULATORY SIGNS SHALL CONFORM IN LETTER SIZE AND COLOR TO THE REQUIREMENTS SPECIFIED IN THE MINNESOTA STANDARD SIGNS MANUAL, INCLUDING THE TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS, FIELD MANUAL.
- TRAFFIC CONTROL SIGNS MAY BE INSTALLED ON PORTABLE STANDS IN LOCATIONS APPROVED BY THE ENGINEER.
- CONSTRUCTION ZONE SIGNING IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR. SIGNS REQUIRED INCLUDE, BUT ARE NOT LIMITED TO, ROAD CONSTRUCTION AHEAD, DIP, BUMP, FRESH OIL, FLAG PERSON, NUMBER OF SIGNS AND LOCATION DETERMINED BY CONTRACTOR'S OPERATION. ALL SIGNS SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. INCLUDING THE "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
- ANY EXISTING SIGNS THAT ARE CONFLICTING IN CONSTRUCTION ZONE AND ARE NOT REMOVED DUE TO CONSTRUCTION, SHALL BE COVERED (INCIDENTAL). SIGN COVERS SHALL BE CONSTRUCTED OF ALUM. PANELS INSTALLED WITH NYLON WASHERS BETWEEN THE SIGN & THE COVER. THE COVERS SHALL CAUSE NO DAMAGE TO THE SIGN PANEL THEY COVER.
- STOP SIGNS REMOVED DURING CONSTRUCTION SHALL BE REPLACED WITH TEMPORARY STOP SIGNS IN LOCATIONS APPROVED BY THE ENGINEER. AT THE COMPLETION OF THE PROJECT, PERMANENT STOP SIGNS SHALL BE RE-INSTALLED IN LOCATIONS APPROVED BY THE ENGINEER.
- ALL FLASHERS SHOULD BE ON SIDE NEAREST ROAD.
- SIGN DIMENSIONS ARE IN ENGLISH UNITS
- THE SIGNING AND CHANNELIZATION DEVICE TABULATION SHOWN IS FOR INFORMATIONAL PURPOSES. ADDITIONAL SIGNS AND DEVICES SHALL BE PROVIDED, AS REQUIRED WITH NO ADJUSTMENT IN THE UNIT PRICE BID FOR ITEM "TRAFFIC CONTROL", LUMP SUM.
- CONSTRUCTION ACTIVITIES SHALL BE PHASED IN ACCORDANCE WITH THE PHASING PLAN IN THIS PLAN SET. ONE APPROACH (AIRPORT RD OR TERMINAL RD) MUST REMAIN OPEN AT ALL TIMES. SIGNAGE FOR THE CHANGE IN PHASING SHALL BE KEPT UP TO DATE BY THE CONTRACTOR.

BASIS FOR ESTIMATED	QUANTITIES
BITUMINOUS WEARING COURSE	115 LBS/SQYD/INCH THICKNESS
AGGREGATE BASE — CLASS 5	110 LBS/SQYD/INCH THICKNESS
SEED PATCH	30 LBS/ACRE
SEED NORTHERN BOULEVARD	150 LBS/ACRE
HYDRAULIC REIFORNCED FROBER MATRIX	3900 LBS/ACRE
FERTILIZER TYPE 3	300 LBS/ACRE

WIDSETH
ARCHITECTS = ENGINEERS = SCIENTISTS = SURVEYORS

DRAWN BY:
NCP

CHECKED BY:

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.

DATE REVISIONS DESCRIPTION

DATE REV# REVISIONS DESCRIPTION

LIC. NO.: 23432 DATE: 05/30/2025

NOTES AND SCHEDULES

