

REVISION NO.	SECTION NO.	SHEET NO.
----	001	1

# CONSTRUCTION DOCUMENTS FOR 2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION CITY OF TWIN VALLEY, MINNESOTA

DRAWING INDEX		
SECTION NO.	SHEET NO.	SHEET TITLE
001	001	TITLE SHEET
002	001	LEGEND
006	001	GENERAL NOTES
020	001-002	GENERAL DETAILS
030	001	TYPICAL SECTIONS
040	001	REMOVAL PLAN
060	001-007	PLAN AND PROFILES
075	001-008	SWPP AND EROSION CONTROL
100	001-002	TRAFFIC CONTROL

**GENERAL NOTES:**

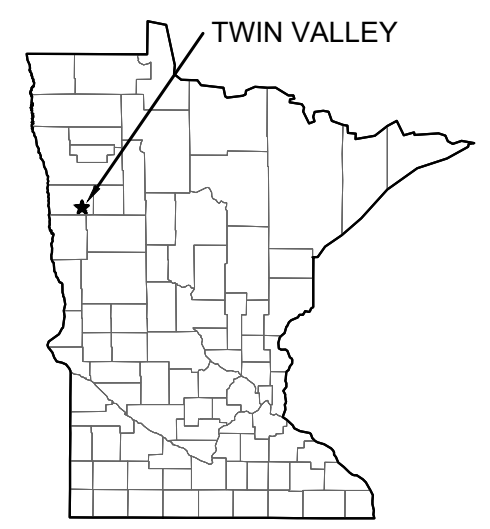
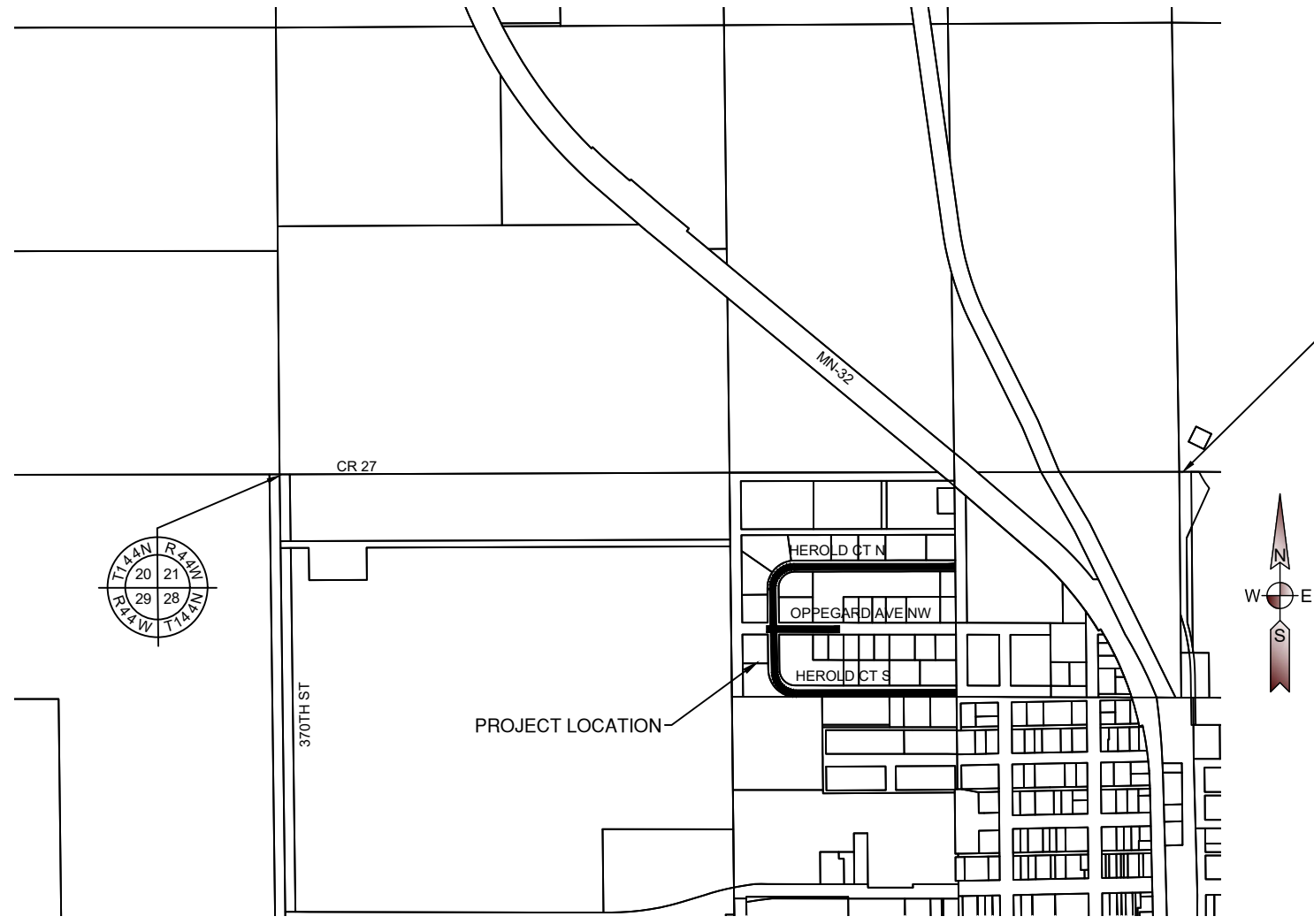
- This survey is for topographic purposes only. Subject to revision based upon receipt of current ownership, deed, easement, and title information. Representative parcel lines shown hereon are from unverified public sources (GIS, historic plat drawings) and have not been field verified.
- This survey is referenced to Norman County MN Coordinate System (NAD 1983, 2011 Adjustment), US Survey Feet, based on GPS observations from MnDOT Geodetic Control Point "5404 L" (NGS PID DG8475 - see below).
- Elevation contour lines referenced to NAVD 1988, derived from Geoid18, based on GPS observations from MnDOT Geodetic Control Point "5404 L" (NGS PID DG8475 - see below), and shown per ground survey.
- Visible above ground utilities have been field located as shown. Underground utilities were not located as part of this survey. Prior to excavation, the excavator is required to call "GOPHER STATE ONE CALL" at 811 or 800-252-1166 for location of underground utilities.
- The field work for this survey was completed on August 28, 2023.

**PROJECT BENCHMARK:**

5404 L - Aluminum rod with MnDOT Geodetic Control Mark disk stamped "5404 L 2004" found on northeast side of MN 32, 1850 feet NW of centerline of County Road 27. Elevation = 1064.24' (NAVD 1988)

**SITE BENCHMARK:**

- BM 1 - Top nut of hydrant located in the southeast corner of the intersection of Herold Ct N and Opegard Ave NW. Top Nut Elevation = 1079.24' (NAVD 88)
- BM 2 - Top nut of hydrant located in the southwest corner of the intersection of Herold Ct S and a gravel road. Top Nut Elevation = 1078.41' (NAVD 88)
- BM 3 - Top nut of hydrant located 66 feet west of the intersection of Herold Ct S and 4th St NW. Top Nut Elevation = 1076.87' (NAVD 88)
- BM 4 - Top nut of hydrant located 40 feet northeast of the intersection of Herold Ct N and 4th St NW. Top Nut Elevation = 1077.77' (NAVD 88)
- BM 6 - Chiseled square southeast side of lift station. Lift is 180 feet northwest of the northwest building corner and 188 feet west of the center line of the gravel road. Elevation = 1053.37' (NAVD 88)
- BM 7 - Spike set in the west side of a power pole 33 feet east of the center line of the gravel road and 205 feet northeast of the northeast building corner. Elevation = 1054.42' (NAVD 88)



LOCATION MAP

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.

Print Name: KRISTOPHER R. CARLSON

Signed: *[Signature]*

Date: 05-28-2025 License Number: 47082



**Ulteig**  
1345 Hwy 10 West  
Detroit Lakes, Minnesota 56501  
Phone: 701.280.8500  
Web: www.ulteig.com  
We listen. We solve.

TITLE SHEET
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN
DRAWN BY: M. JENSON
CHECKED BY: A. RANZ
APPROVED BY: K. CARLSON
DATE: XX, 2025      UEI PROJ. NO: 23-24232

# EXISTING

# PROPOSED

REVISION NO.	SECTION NO.	SHEET NO.
----	002	1

	UNKNOWN MANHOLE		FIBER PEDESTAL		CURB & GUTTER
	STORM MANHOLE		PULL BOX		BUILDING
	SANITARY MANHOLE		GAS VALVE		SANITARY SEWER MAIN
	ELECTRIC/POWER MANHOLE		GAS METER		SANITARY SEWER SERVICE
	GAS MANHOLE		GAS LINE MARKER		SANITARY FORCE MAIN
	TELEPHONE MANHOLE		GAS LP TANK		STORM SEWER
	WATER MANHOLE		STREET LIGHT		WATER MAIN
	WATER WELL		TRAFFIC SIGNAL STANDARD		WATER SERVICE
	STEAM MANHOLE		TRAFFIC CONTROL BOX		GAS LINE
	COMMUNICATION MANHOLE		MAIL BOX		UNDERGROUND TELEPHONE
	TRAFFIC MANHOLE		FLAG POLE		UNDERGROUND POWER
	CATCH BASIN		STREET SIGN		OVERHEAD POWER
	FIRE HYDRANT		SOIL BORING LOCATION		UNDERGROUND TELEVISION
	GATE VALVE		WATER SERVICE CURB STOP		UNDERGROUND FIBER OPTIC
	POWER POLE		CLEANOUT		UNDERGROUND STEAM LINE
	POWER POLE WITH RISER		DOWN SPOUT		COMMUNICATION LINE
	POWER POLE WITH LIGHT		GUARD POST		CONCRETE PARKING BLOCK
	GUY POLE		HANDICAP SYMBOL		BARBED WIRE FENCE
	ANCHOR		TREES/BUSHES		CHAIN LINK FENCE
	TELEPHONE PEDESTAL		STUMP		WOOD FENCE
	TELEPHONE MARKER POST		MONUMENT		EXISTING CONCRETE
	TELEVISION PEDESTAL		PROPERTY LINE		EXISTING ASPHALT
	TELEVISION SAT. DISH		EXISTING PROPERTY LINE		EXISTING GRAVEL
	ELECTRIC PEDESTAL		SETBACK LINE		REMOVE BITUMINOUS PAVEMENT
	ELECTRIC TRANSFORMER		TEMPORARY EASEMENT LINE		REMOVE CONCRETE PAVEMENT
	ELECTRIC METER		PERMANENT EASEMENT LINE		REMOVE GRAVEL
	COMMUNICATION PEDESTAL		EXISTING SPOT ELEVATION		REMOVE CURB AND GUTTER
			EXISTING CONTOUR		REMOVE SEWER MAIN
			REMOVE TREE/STUMP		REMOVE STORM SEWER
					REMOVE WATER MAIN

	SANITARY MANHOLE
	STORM MANHOLE
	CATCH BASIN
	FIRE HYDRANT
	WATER MAIN GATE VALVE
	WATER MAIN TEE
	WATER MAIN 90° BEND
	WATER MAIN FITTING
	SANITARY SEWER SERVICE CLEAN OUT
	WATER SERVICE CURB STOP
	PROPOSED CONCRETE
	PROPOSED CONCRETE DRIVEWAY
	PROPOSED ASPHALT
	PROPOSED GRAVEL
	SILT FENCE
	BARBED WIRE FENCE
	CHAIN LINK FENCE
	WOOD FENCE
	SANITARY SEWERMAIN
	SANITARY SEWER SERVICE
	STORM SEWER
	WATER MAIN
	WATER SERVICE
	UNDERGROUND POWER
	OVERHEAD POWER
	PROPOSED CONTOUR
	PROPOSED DITCH C/L
	TOP OF CURB ELEVATION
	GUTTER ELEVATION
	TOP OF PAVEMENT ELEVATION
	SIDEWALK ELEVATION
	FINISH GRADE ELEVATION
	PROPOSED SLOPE & DIRECTION OF FLOW
	TOP BACK CURB

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.

Print Name: KRISTOPHER R. CARLSON

Signed:

Date: 05-28-2025 License Number: 47082



**Ulteig**  
 1345 Hwy 10 West  
 Detroit Lakes, Minnesota 56501  
 Phone: 701.280.8500  
 Web: www.ulteig.com  
 We listen. We solve.™

LEGEND	
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN	
DRAWN BY: M. JENSON	
CHECKED BY: A. RANZ	
APPROVED BY: K. CARLSON	
DATE: XX, 2025	UEI PROJ. NO: 23.24232

## GENERAL CONSTRUCTION NOTES

REVISION NO.	SECTION NO.	SHEET NO.
----	006	1

STANDARD PLATE	
NUMBER	DESCRIPTION
4026A	CONCRETE ENCASED CONCRETE ADJUSTING RINGS
4101D	RING CASTING FOR MANHOLE OR CATCH BASIN
4110F	COVER CASTING FOR MANHOLES
9322K	ADJUSTING RINGS FOR CATCH BASINS & MANHOLES

**NOTE:**  
THE ABOVE STANDARD PLATES, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY.

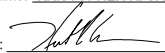
**NOTE:**

RIGHT OF WAY, PARCEL LINES AND MONUMENTS REPRESENTED ON THIS PLAN ARE FOR INFORMATIONAL PURPOSES ONLY. THIS PLAN DOES NOT CONSTITUTE A LAND SURVEY AND DOES NOT INVOLVE THE ESTABLISHMENT OR RE-ESTABLISHMENT OF PROPERTY CORNERS OR PROPERTY LINES IN ACCORDANCE WITH MN STATUTE 326.02. NO WARRANTY OF ANY TYPE IS EXPRESSED OR IMPLIED REGARDING THIS INFORMATION.

1. THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
2. THE CONTRACTOR IS TO INSPECT THE PROJECT AREA FOR LAWN SPRINKLERS PRIOR TO CONSTRUCTION ACTIVITIES. IF CONSTRUCTION WILL INTERFERE WITH THE EXISTING SPRINKLERS THE CONTRACTOR SHALL REMOVE AND REPLACE SPRINKLER INCIDENTAL TO PIPE LAID.
3. CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY ANY TIME THEY ENCOUNTER ANY DEFECTS WHETHER THEY CAUSED THE DEFECT OR IF IT WAS THERE WHEN THEY EXPOSED IT.
4. GATE VALVE BOXES SHALL BE SO VERTICALLY PLUMB THAT WHEN A PLUMB BOB IS DROPPED DOWN THE BOX THE STRING DOES NOT HIT THE WALL OF THE BOX.
5. THE ENGINEER WILL CHECK ALL SHOP DRAWINGS AS A COURTESY TO THE CONTRACTOR, BUT ULTIMATELY THE CONTRACTOR IS RESPONSIBLE FOR ANY MISTAKES OR ERRORS.
6. ANY BITUMINOUS PAVED LIFTS ON TOP OF ANY AGGREGATE BASE SHALL BE PAVED WITH A TRACK PAVER, TIRE PAVERS WILL NOT BE ALLOWED WITHOUT THE APPROVAL OF THE ENGINEER.
7. WHEN A CONTRACTOR IS REQUIRED TO DELIVER EXCESS EXCAVATION TO A FILL SITE THIS SHALL INCLUDE REMOVAL AND REPLACEMENT OF THE EXISTING TOPSOIL, LEVELING THE FILL TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE CONTRACT AND NO DIRECT COMPENSATION SHALL BE MADE TO THE CONTRACTOR.
8. ALL CONTRACTORS AND SUB-CONTRACTORS SHALL VISIT THE SITE PRIOR TO THE BID OPENING AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS.
9. THE CONTRACTOR SHALL INSPECT AND FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
10. CONTRACTOR SHALL NOTIFY ALL RESIDENTS ADJACENT TO THE CONSTRUCTION SITE 72 HOURS IN ADVANCE FOR ROAD CLOSURES.
11. MANHOLE AND CATCH BASIN RINGS SHALL BE CONCRETE AND GROUTED.  
(MASTIC WILL NOT BE ALLOWED.)
12. ALL EXISTING STREET, REGULATORY, AND WARNING SIGNS SHALL BE REMOVED AND DELIVERED TO THE CITY IF THEY ARE NOT DESIGNATED FOR REINSTALLATION. "REMOVE SIGN" BID ITEM SHALL INCLUDE REMOVAL OF SIGN POST AND ALL SIGN PANELS ATTACHED TO THE POST.
13. THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN, EXCEPT AS AMENDED BY THE CONTRACT DOCUMENTS. PRECEDENCE SHALL BE GIVEN TO THE CONTRACT DOCUMENTS.
14. TEMPORARY CONSTRUCTION EASEMENT AREAS SHALL NOT BE USED TO STOCKPILE ANY CONSTRUCTION MATERIALS.
15. CONTRACTOR TO PROTECT ALL EXISTING TREES.

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.

Print Name: KRISTOPHER R. CARLSON

Signed: 

Date: 05-28-2025 License Number: 47082



**Ulteig**  
We listen. We solve.™

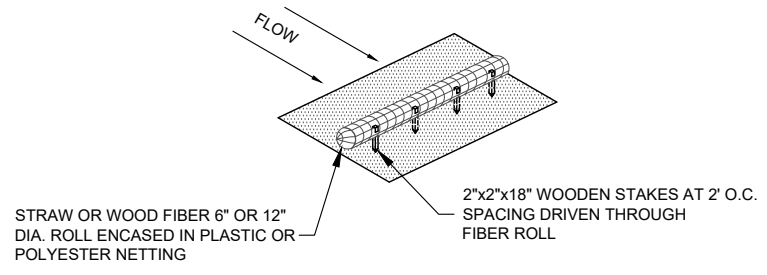
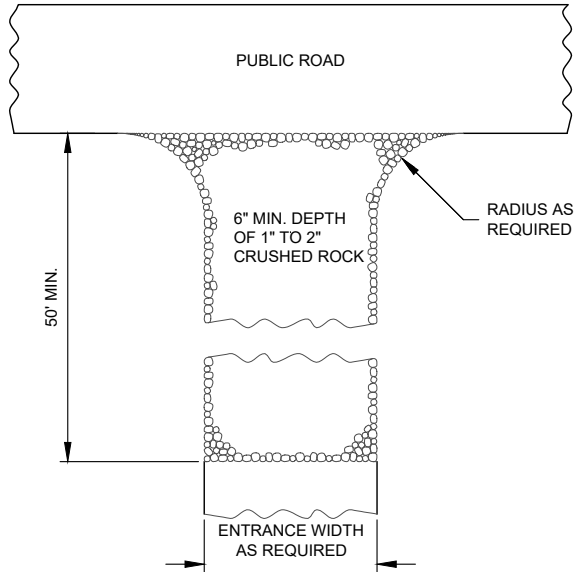
1345 Hwy 10 West  
Detroit Lakes, Minnesota 56501  
Phone: 701.280.8500  
Web: www.ulteig.com

**GENERAL NOTES**

2025 STREET IMPROVEMENTS -  
HEROLD COURT ADDITION  
TWIN VALLEY, MN

DRAWN BY: M. JENSON  
CHECKED BY: A. RANZ  
APPROVED BY: K. CARLSON  
DATE: XX, 2025      UEI PROJ. NO: 23-24232

REVISION NO.	SECTION NO.	SHEET NO.
----	020	1



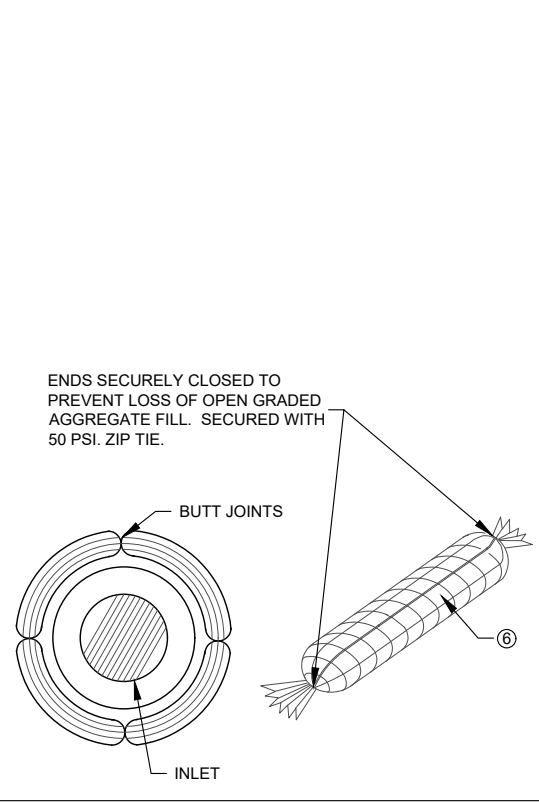
**BIOROLL SYSTEM**

**EROSION CONTROL AND TURF ESTABLISHMENT NOTES**

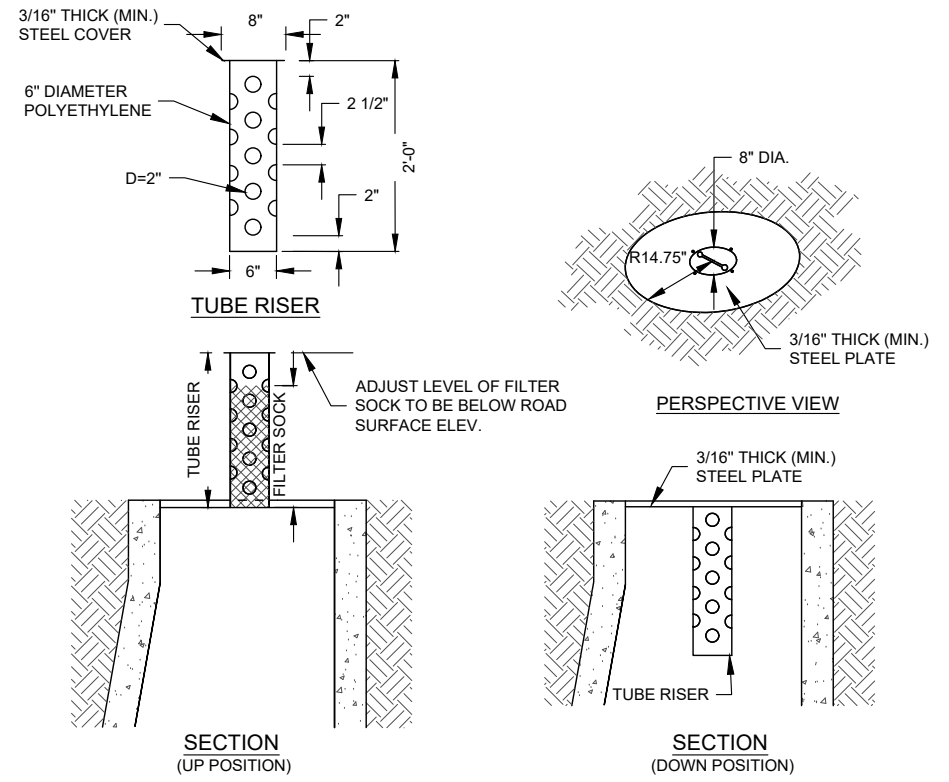
1. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE RESTORED BY THE CONTRACTOR AS SOON AS PRACTICAL AND IN ACCORDANCE WITH THE NPDES PERMIT. MULTIPLE MOBILIZATIONS WILL BE REQUIRED. THERE WILL BE NO COMPENSATION FOR MULTIPLE MOBILIZATIONS.
2. IN THE EVENT PERMANENT RESTORATION CANNOT BE PERFORMED WITHIN THE PERMITTED TIME FRAMES THE CONTRACTOR WILL BE RESPONSIBLE FOR TEMPORARY STABILIZATION. TEMPORARY STABILIZATION SHALL BE INCIDENTAL.
3. ALL TEMPORARY STOCKPILES SHALL BE STABILIZED AT THE CONTRACTOR'S EXPENSE.
4. THE DEPICTED EROSION AND SEDIMENT CONTROL PLAN SHOULD BE USED AS A GENERAL GUIDELINE. THE CONTRACTORS CONSTRUCTION METHODS MAY REQUIRE ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES TO REMAIN WITHIN THE REQUIREMENTS OF THE NPDES GENERAL STORM WATER PERMIT.
5. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MINIMIZING AREAS OF DISTURBANCE. ANY TURF AREAS DISTURBED OUTSIDE OF CONSTRUCTION (RIGHT OF WAY UNLESS CITY OBTAINS EASEMENTS) LIMITS SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTORS COST TO THE SATISFACTION OF THE ENGINEER.

- NOTES:**
1. SEE MnDOT SPECS. 2573, 3892, & 3894.
  2. ROCKS AT ENTRANCE CLEAN WORK SITE MUD OFF OF TRUCK TIRES BEFORE TRUCKS ENTER MAIN ROAD. KEEPING MUD OFF THE ROAD WILL PREVENT AUTO DAMAGE AND KEEP CONSTRUCTION SEDIMENT OUT OF DRAINAGE SYSTEMS AND WETLANDS. GEOTEXTILE MAY BE PLACED UNDER THE ROCK TO KEEP ROCKS SEPARATE FROM SOIL.
  3. INSTALLATION AND MAINTENANCE SHALL BE INCIDENTAL TO EROSION CONTROL BID PRICE.

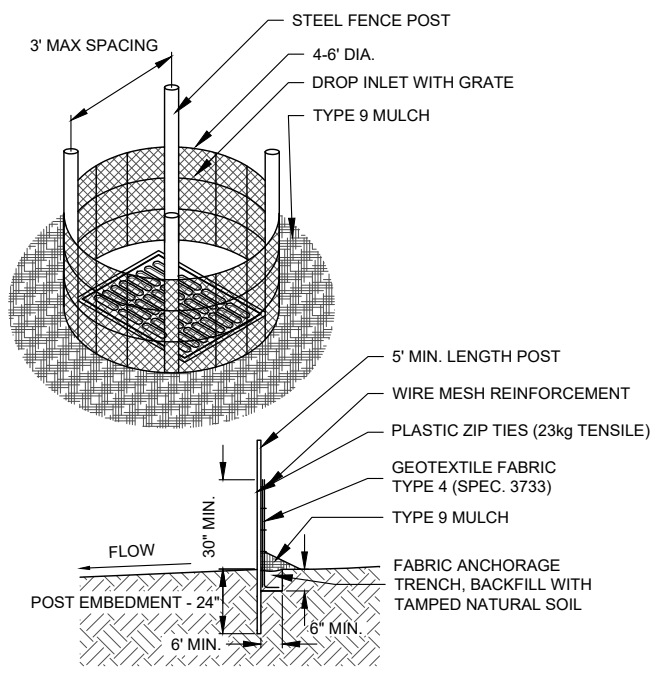
**ROCK CONSTRUCTION ENTRANCE**



**ROCK LOG/COMPOST LOG**



**POP-UP HEAD**



**TYPE "A" INLET PROTECTION**  
(SILT FENCE TO PROTECT DROP INLETS)  
USE WHERE INLET DRAINS AN AREA WITH SLOPES AT 1:3 OR LESS  
TYPE A SPEC. 3891 NOT TO SCALE

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.

Print Name: KRISTOPHER R. CARLSON

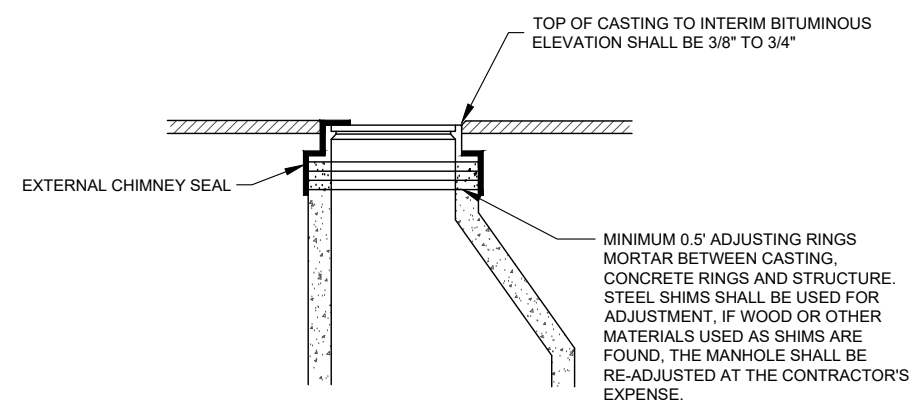
Signed: *[Signature]*

Date: 05-28-2025 License Number: 47082

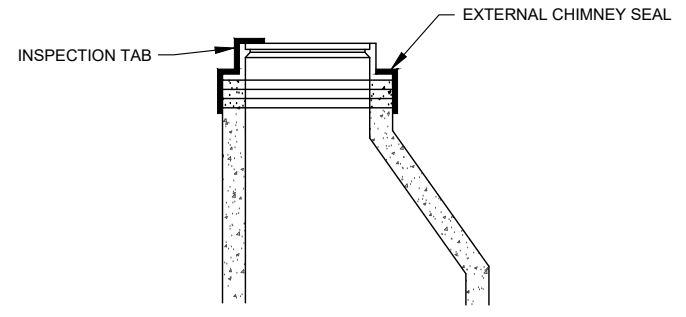


**Ulteig** 1345 Hwy 10 West  
Detroit Lakes, Minnesota 56501  
Phone: 701.280.8500  
Web: www.ulteig.com  
We listen. We solve.

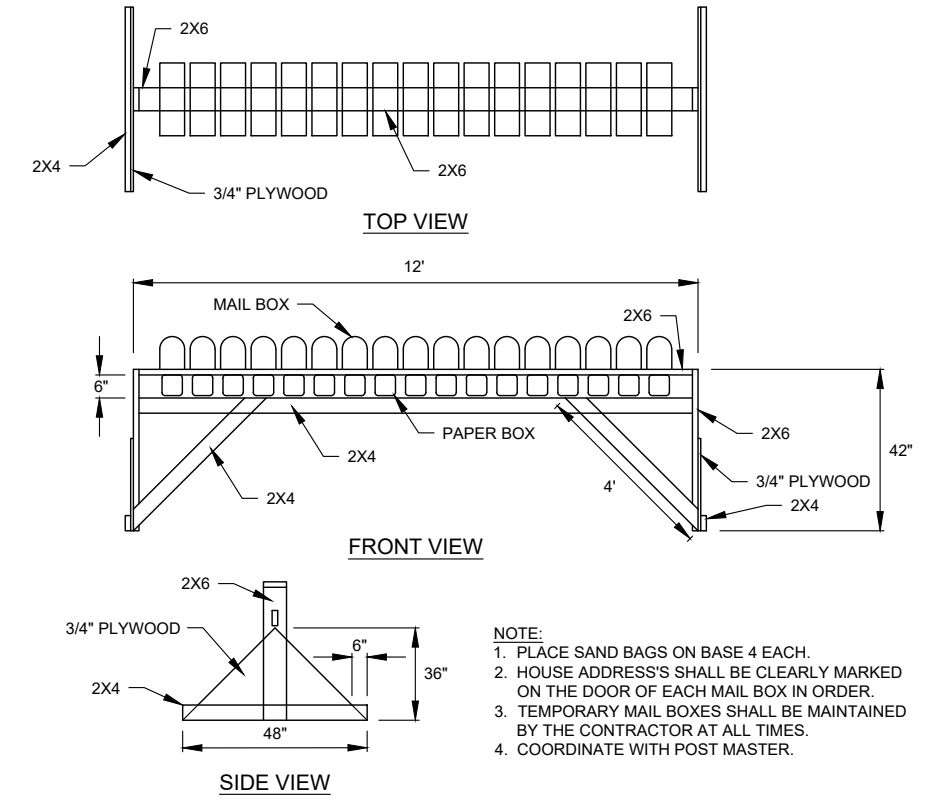
EROSION CONTROL DETAILS	
----	
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN	
DRAWN BY: M. JENSON	
CHECKED BY: A. RANZ	
APPROVED BY: K. CARLSON	
DATE: XX, 2025	UEI PROJ. NO: 23-24232



TYPICAL MANHOLE CASTING ADJUSTMENT IN BITUMINOUS NON-WEAR COURSE

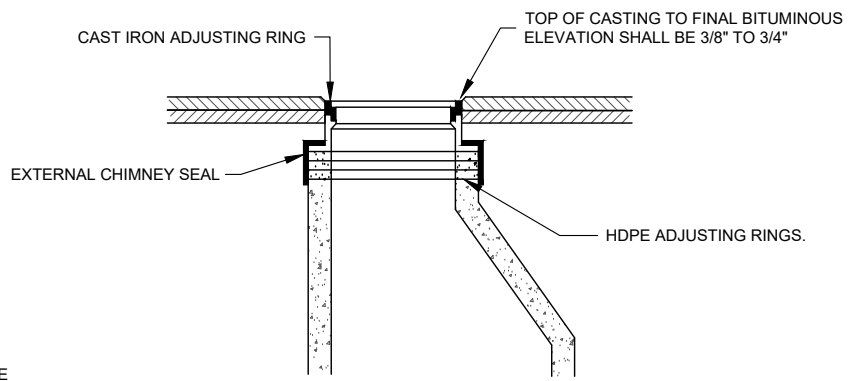


EXTERNAL CHIMNEY SEAL DETAIL

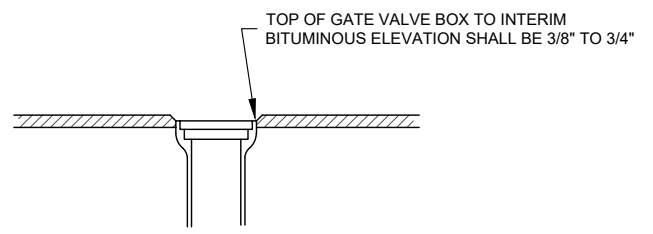


TEMPORARY MAIL BOX

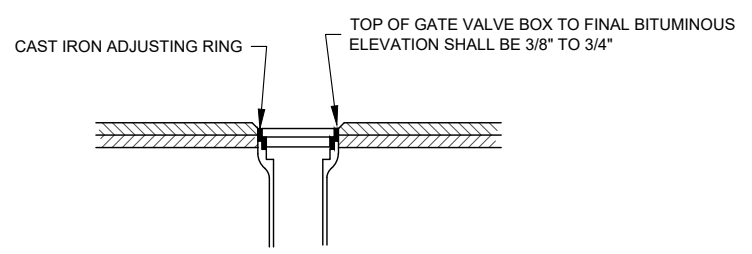
- NOTE:
1. PLACE SAND BAGS ON BASE 4 EACH.
  2. HOUSE ADDRESS'S SHALL BE CLEARLY MARKED ON THE DOOR OF EACH MAIL BOX IN ORDER.
  3. TEMPORARY MAIL BOXES SHALL BE MAINTAINED BY THE CONTRACTOR AT ALL TIMES.
  4. COORDINATE WITH POST MASTER.



TYPICAL MANHOLE CASTING ADJUSTMENT IN BITUMINOUS WEAR COURSE



TYPICAL GATE VALVE BOX ADJUSTMENT IN BITUMINOUS NON-WEAR COURSE



TYPICAL GATE VALVE BOX ADJUSTMENT IN BITUMINOUS WEAR COURSE

- NOTE
1. ALL GATE VALVE BOXES AND MANHOLE CASTINGS SHALL BE ADJUSTED 48 HOURS PRIOR TO PAVING OPERATIONS.

- NOTES
1. PRIOR TO BASE COURSE PAVING MANHOLE AND GATE VALVES SHALL BE ADJUSTED TO 3" BELOW CLASS 5 FINISHED GRADE (INCIDENTAL).
  2. ALL GATE VALVE AND MANHOLES SHALL BE ADJUSTED 48 HOURS PRIOR TO PAVING OPERATIONS
  3. METAL INSERT ADJUSTING RINGS WILL NOT BE ALLOWED FOR ADJUSTMENTS IN BIT. NON-WEARING COURSE.
  4. CONCRETE ADJUSTMENT RINGS OR CRETEX PRO-RING (OR APPROVED EQUAL) SHALL BE USED FOR ALL MANHOLE ADJUSTMENTS.
  5. ADJUSTMENTS WHICH FAIL TO MEET THE 1/4" TO 3/4" ELEVATION TOLERANCE SHALL BE READJUSTED. READJUSTMENTS SHALL BE PERFORMED AT NO EXPENSE TO THE OWNER.

- NOTE
1. ALL GATE VALVE BOXES AND MANHOLE CASTINGS SHALL BE ADJUSTED 48 HOURS PRIOR TO PAVING OPERATIONS.

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.

Print Name: KRISTOPHER R. CARLSON

Signed: *Kristopher R. Carlson*

Date: 05-28-2025 License Number: 47082



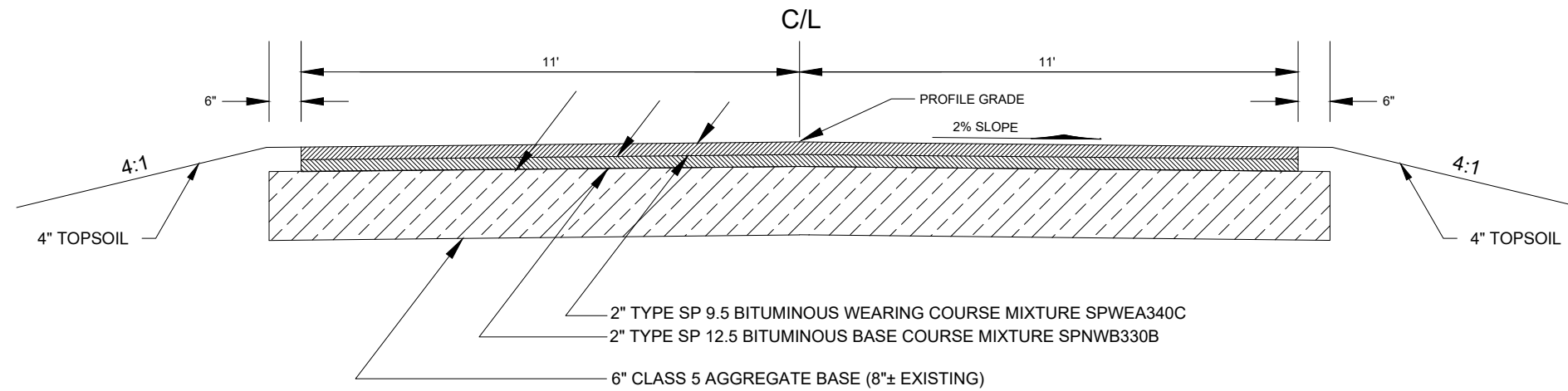
**Ulteig**  
We listen. We solve.<sup>™</sup>

1345 Hwy 10 West  
Detroit Lakes, Minnesota 56501  
Phone: 701.280.8500  
Web: www.ulteig.com

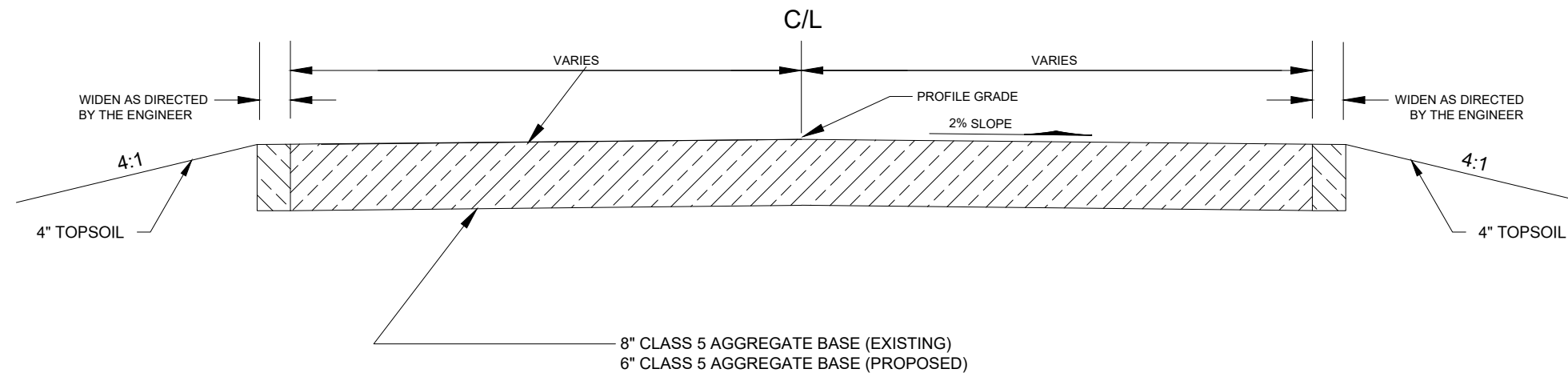
DETAILS
----
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN
DRAWN BY: M. JENSON
CHECKED BY: A. RANZ
APPROVED BY: K. CARLSON
DATE: XX, 2025
UEI PROJ. NO: 23.24232

REVISION NO.	SECTION NO.	SHEET NO.
----	030	1

## PROPOSED TYPICAL SECTION



## EXISTING TYPICAL SECTION



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.

Print Name: KRISTOPHER R. CARLSON

Signed:

Date: 05-28-2025 License Number: 47082

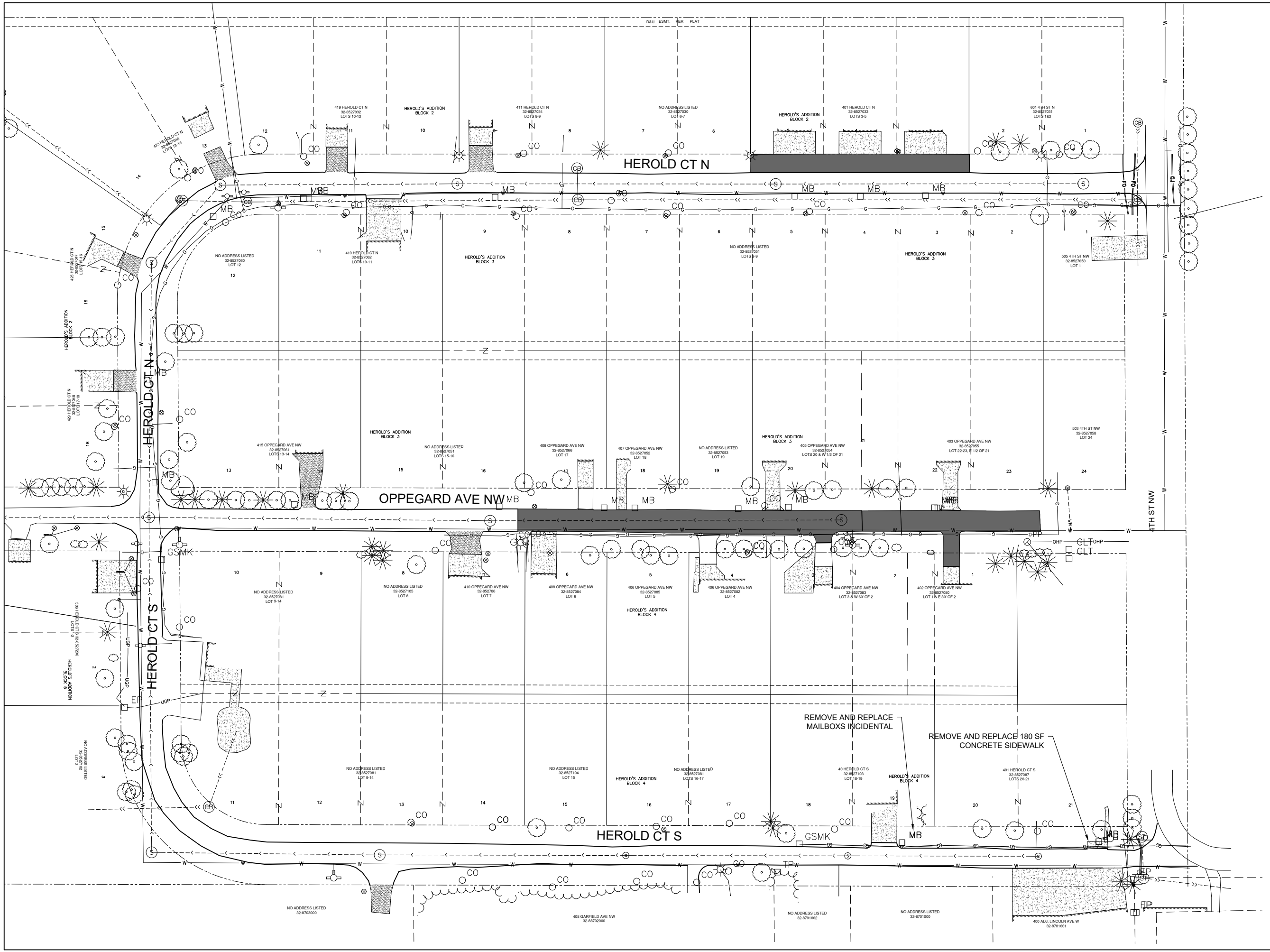
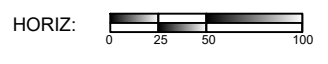
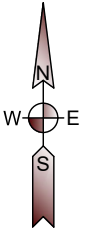


**Ulteig** 1345 Hwy 10 West  
Detroit Lakes, Minnesota 56501  
Phone: 701.280.8500  
Web: www.ulteig.com  
We listen. We solve.™

TYPICAL SECTIONS
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN
DRAWN BY: M. JENSON
CHECKED BY: A. RANZ
APPROVED BY: K. CARLSON
DATE: XX, 2025      UEI PROJ. NO: 23.24232

REVISION NO.	SECTION NO.	SHEET NO.
----	040	1

**GENERAL NOTE:**  
EXISTING CLASS 5 SHALL BE SALVAGED BY THE CONTRACTOR AND STOCKPILED FOR THE CITY AT A LOCATION APPROVED OF BY THE CITY.



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.

Print Name: KRISTOPHER R. CARLSON

Signed:

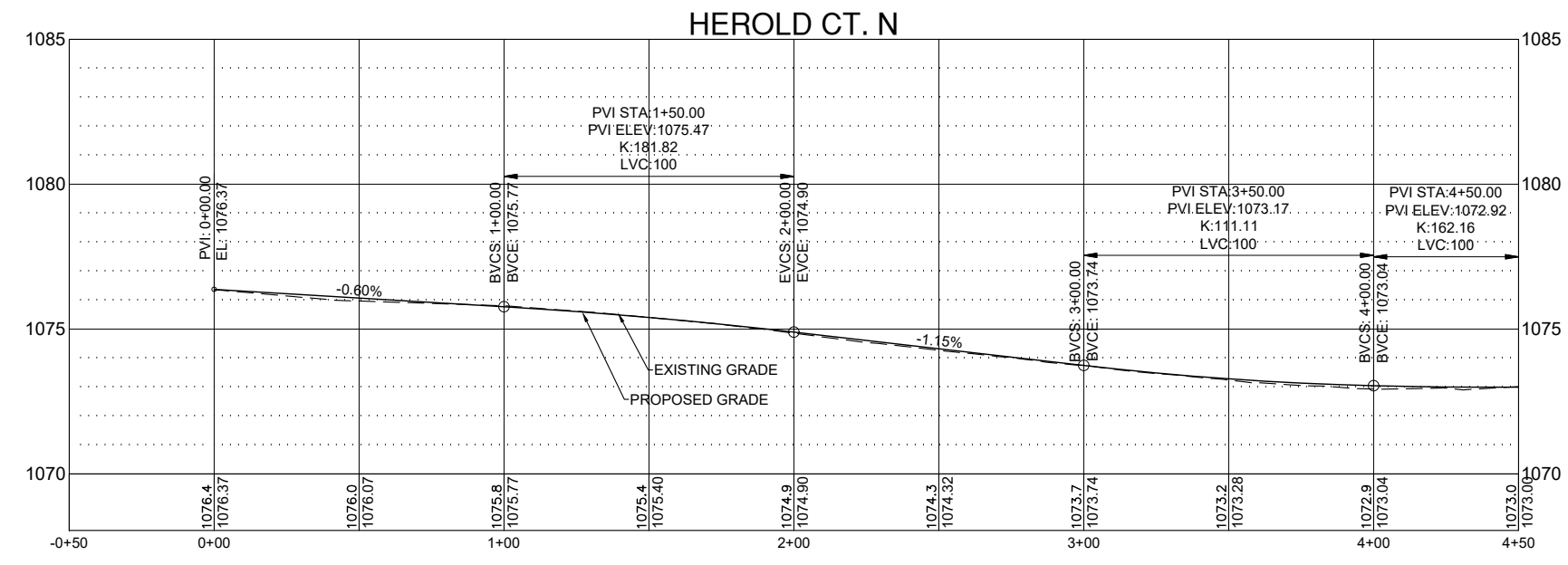
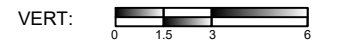
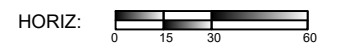
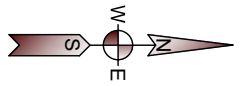
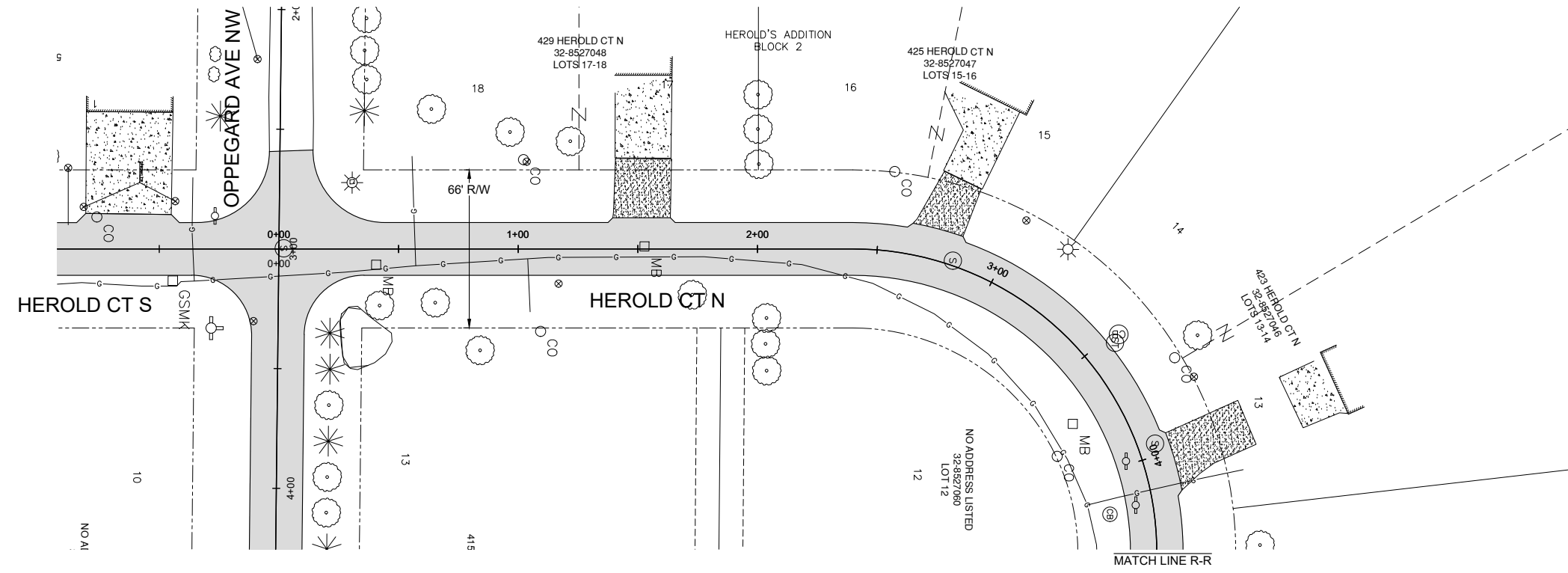
Date: 05-28-2025 License Number: 47082



**Ulteig** 1345 Hwy 10 West  
Detroit Lakes, Minnesota 56501  
Phone: 701.280.8500  
Web: www.ulteig.com  
We listen. We solve™

REMOVALS ----
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN
DRAWN BY: M. JENSON
CHECKED BY: A. RANZ
APPROVED BY: K. CARLSON
DATE: XX, 2025      UEI PROJ. NO: 23.24232

REVISION NO.	SECTION NO.	SHEET NO.
----	060	1



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.

Print Name: KRISTOPHER R. CARLSON

Signed:

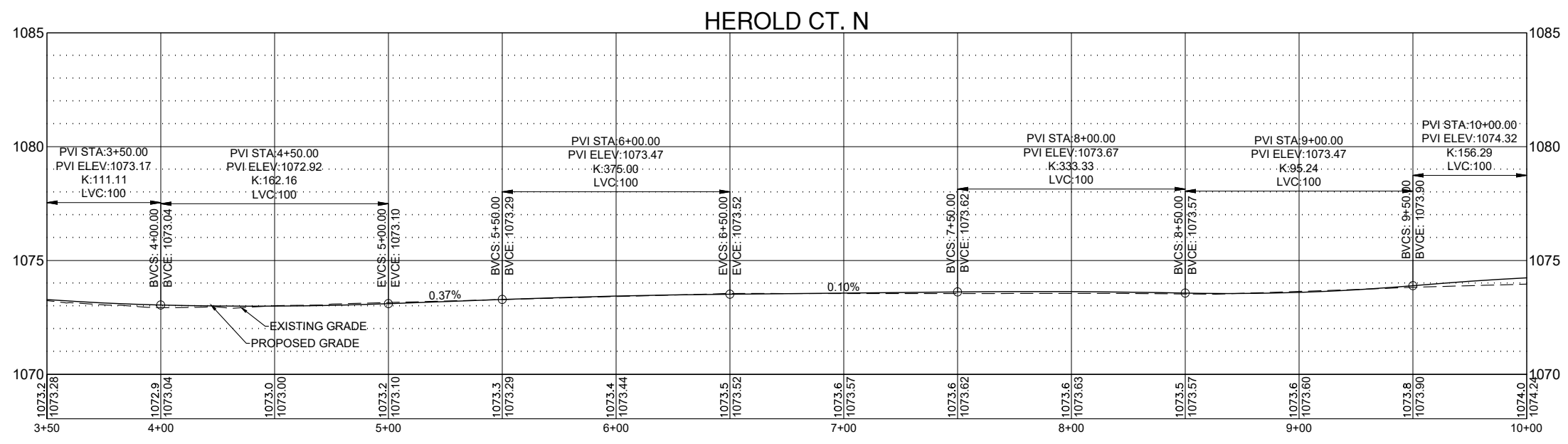
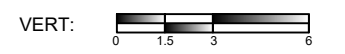
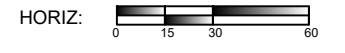
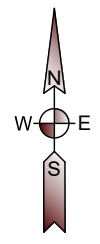
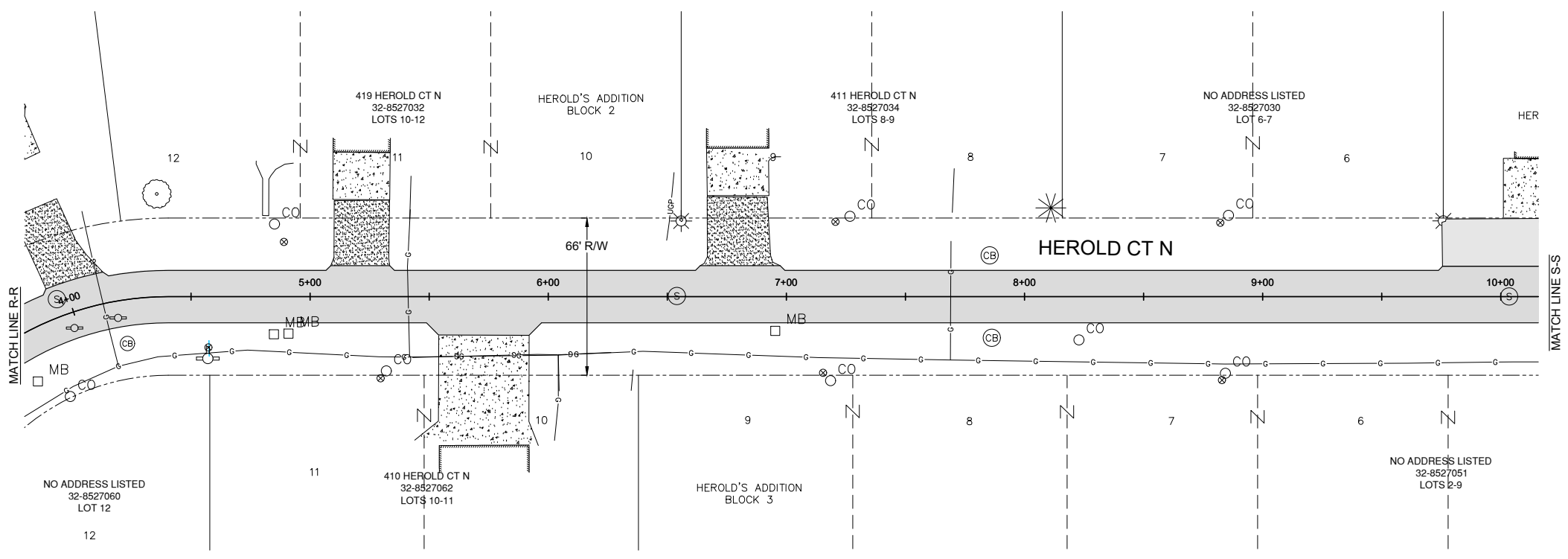
Date: 05-28-2025 License Number: 47082



1345 Hwy 10 West  
 Detroit Lakes, Minnesota 56501  
 Phone: 701.280.8500  
 Web: www.ulteig.com

<b>PLAN AND PROFILES</b>
----
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN
DRAWN BY: M. JENSON
CHECKED BY: A. RANZ
APPROVED BY: K. CARLSON
DATE: XX, 2025      UEI PROJ. NO: 23.24232

REVISION NO.	SECTION NO.	SHEET NO.
----	060	2



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.

Print Name: KRISTOPHER R. CARLSON

Signed: *[Signature]*

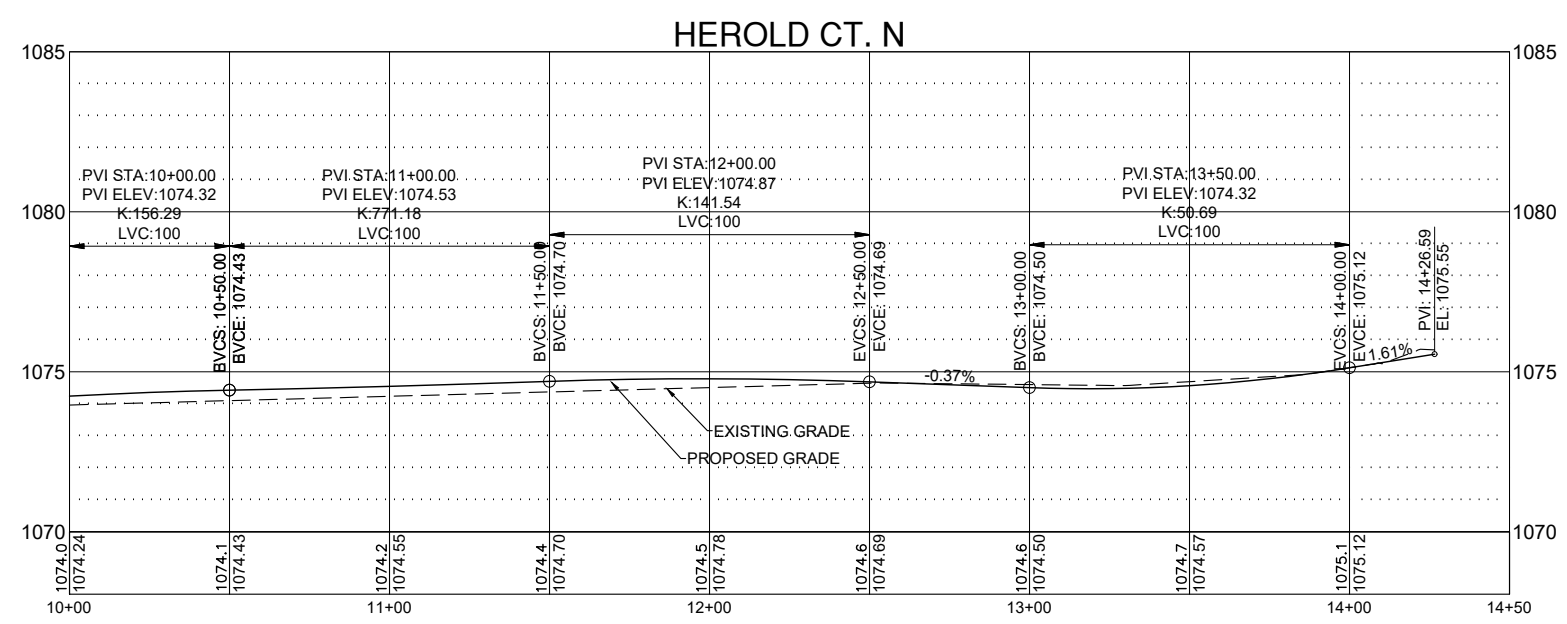
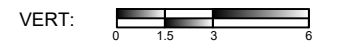
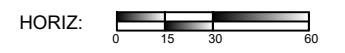
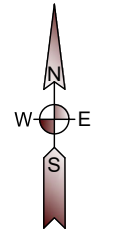
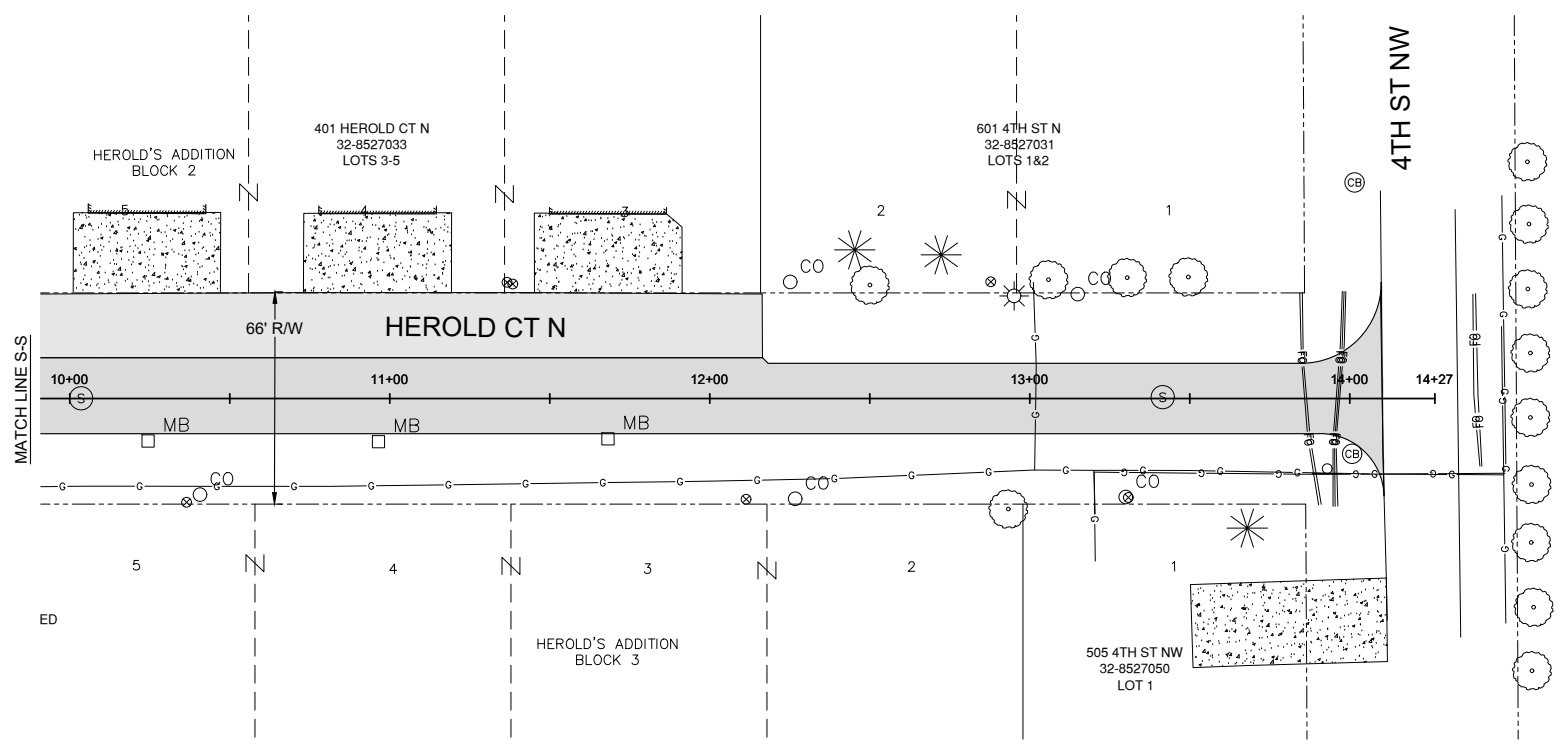
Date: 05-28-2025 License Number: 47082



**Ulteig** 1345 Hwy 10 West  
 Detroit Lakes, Minnesota 56501  
 Phone: 701.280.8500  
 Web: www.ulteig.com  
 We listen. We solve.™

<b>PLAN AND PROFILES</b>	
----	
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN	
DRAWN BY: M. JENSON	
CHECKED BY: A. RANZ	
APPROVED BY: K. CARLSON	
DATE: XX, 2025	UEI PROJ. NO: 23-24232

REVISION NO.	SECTION NO.	SHEET NO.
----	060	3



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.

Print Name: KRISTOPHER R. CARLSON

Signed: *[Signature]*

Date: 05-28-2025 License Number: 47082

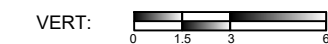
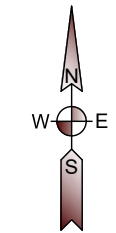
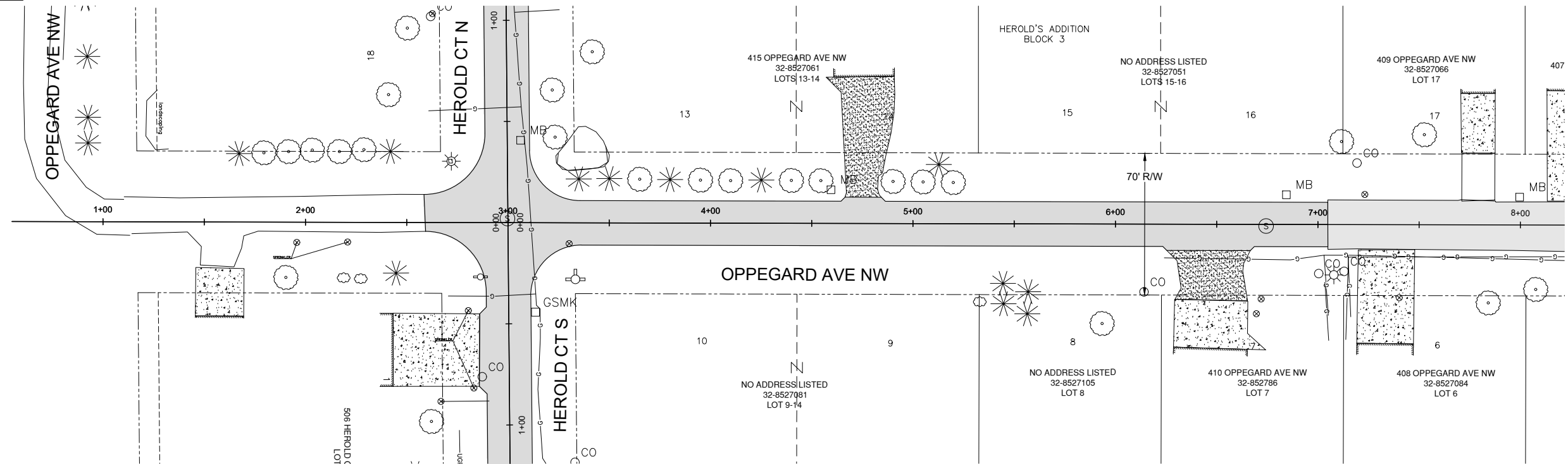


**Ulteig**  
 1345 Hwy 10 West  
 Detroit Lakes, Minnesota 56501  
 Phone: 701.280.8500  
 Web: www.ulteig.com  
 We listen. We solve.™

PLAN AND PROFILES ----
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN
DRAWN BY: M. JENSON
CHECKED BY: A. RANZ
APPROVED BY: K. CARLSON
DATE: XX, 2025     UEI PROJ. NO: 23.24232

MATCH LINE P-P

REVISION NO.	SECTION NO.	SHEET NO.
----	060	4



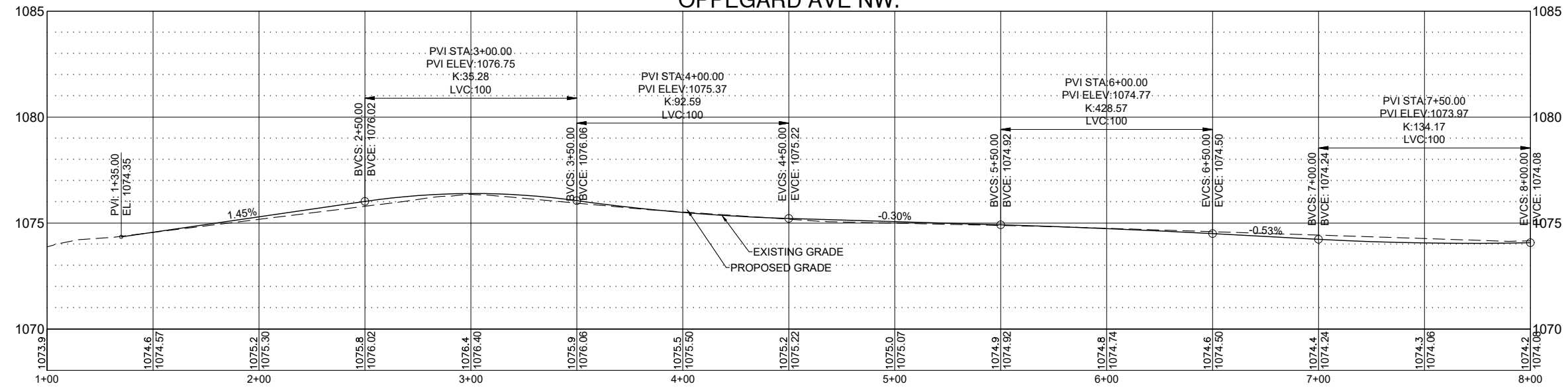
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: KRISTOPHER R. CARLSON

Signed:

Date: 05-28-2025 License Number: 47082

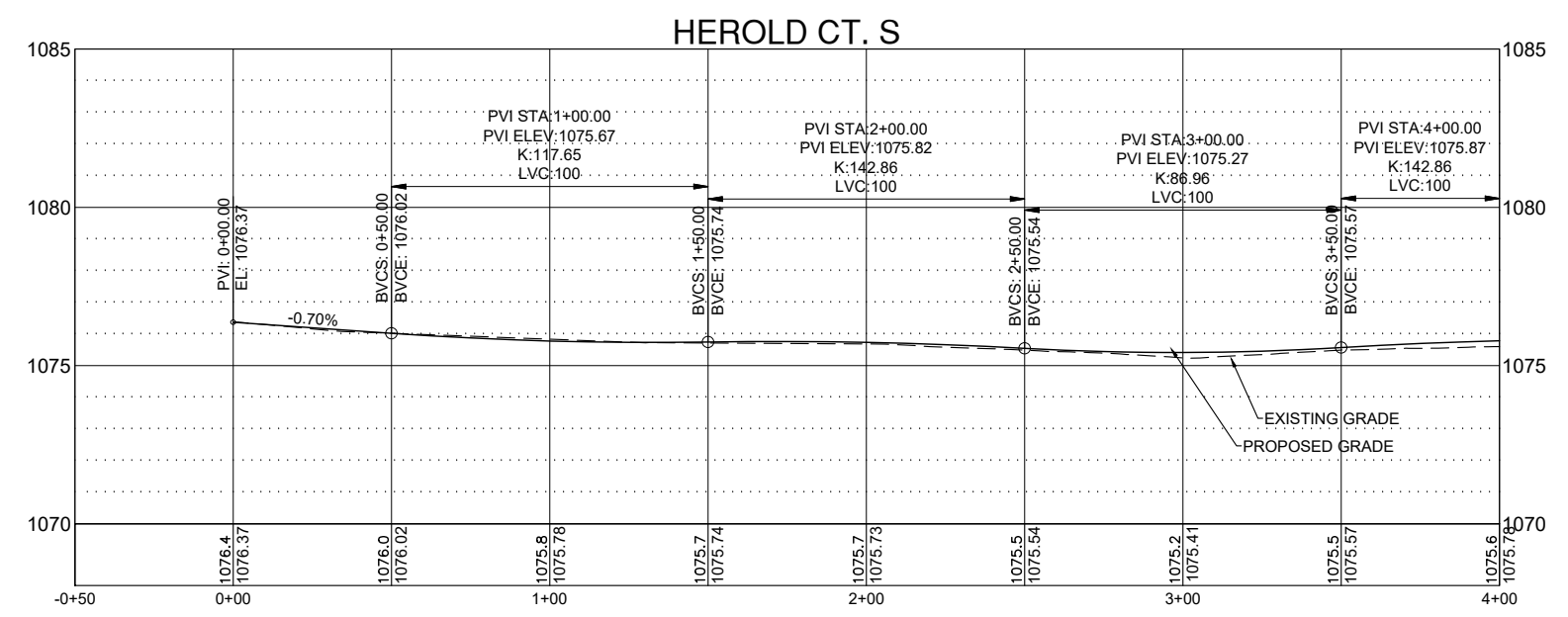
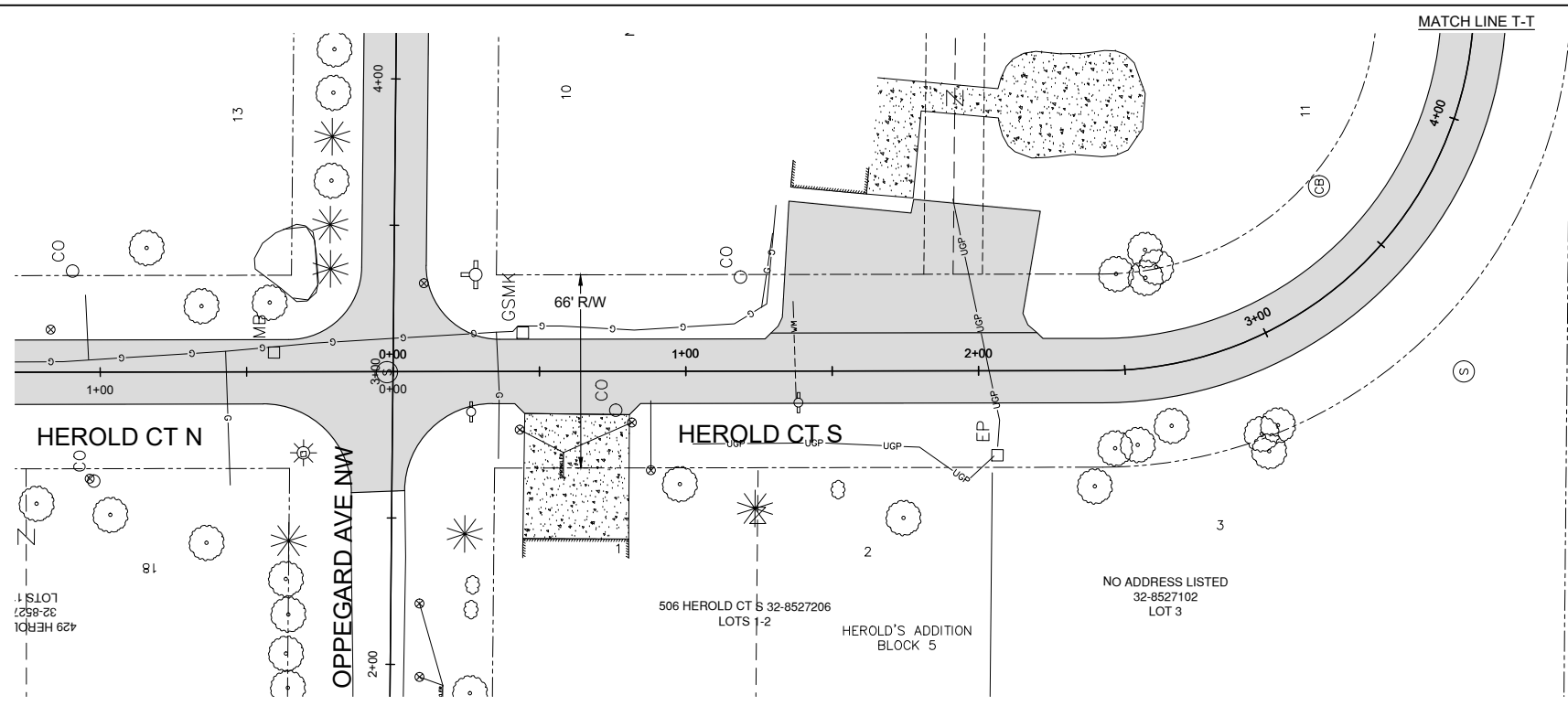
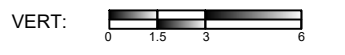
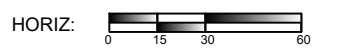
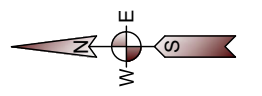
### OPPEGARD AVE NW.



**Ulteig** 1345 Hwy 10 West  
 Detroit Lakes, Minnesota 56501  
 Phone: 701.280.8500  
 Web: www.ulteig.com  
We listen. We solve™

<b>PLAN AND PROFILES</b>	
----	
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN	
DRAWN BY: M. JENSON	
CHECKED BY: A. RANZ	
APPROVED BY: K. CARLSON	
DATE: XX, 2025	UEI PROJ. NO: 23.24232

REVISION NO.	SECTION NO.	SHEET NO.
----	060	5



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.

Print Name: KRISTOPHER R. CARLSON

Signed:

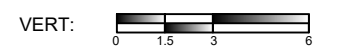
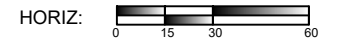
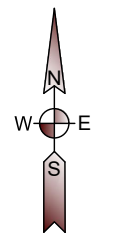
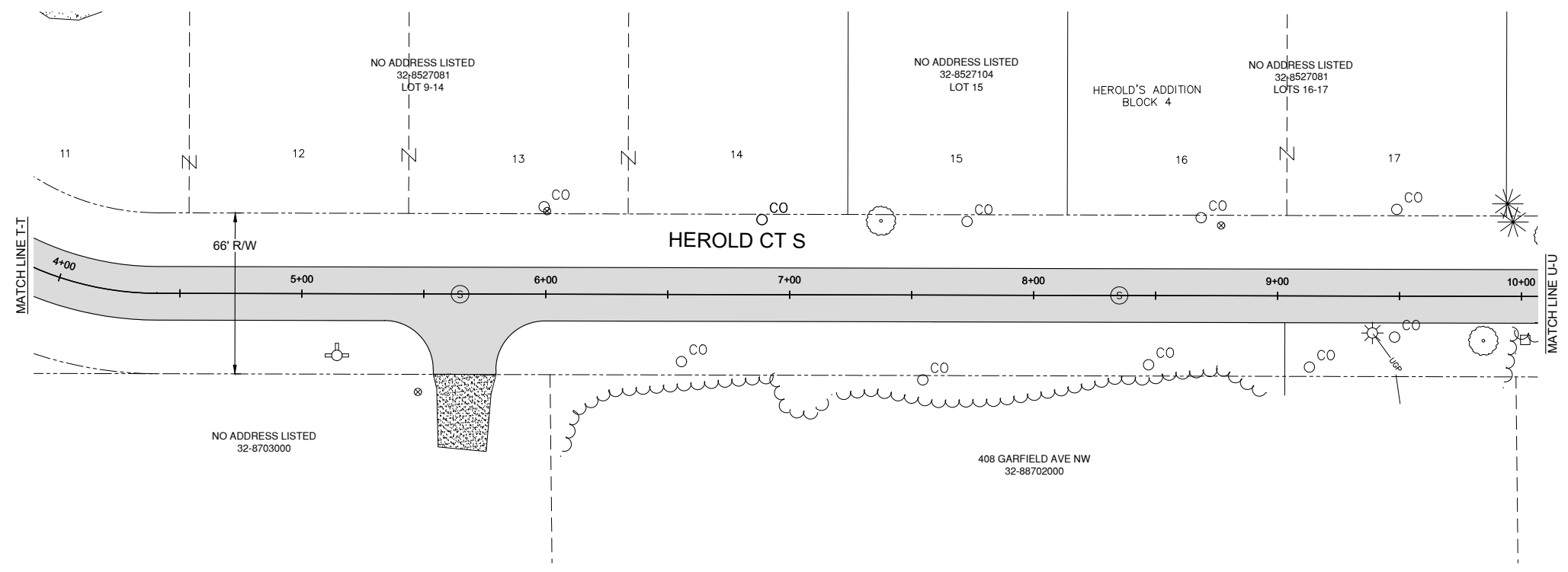
Date: 05-28-2025 License Number: 47082



1345 Hwy 10 West  
 Detroit Lakes, Minnesota 56501  
 Phone: 701.280.8500  
 Web: www.ulteig.com

<b>PLAN AND PROFILES</b>
----
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN
DRAWN BY: M. JENSON
CHECKED BY: A. RANZ
APPROVED BY: K. CARLSON
DATE: XX, 2025      UEI PROJ. NO: 23.24232

REVISION NO.	SECTION NO.	SHEET NO.
----	060	6

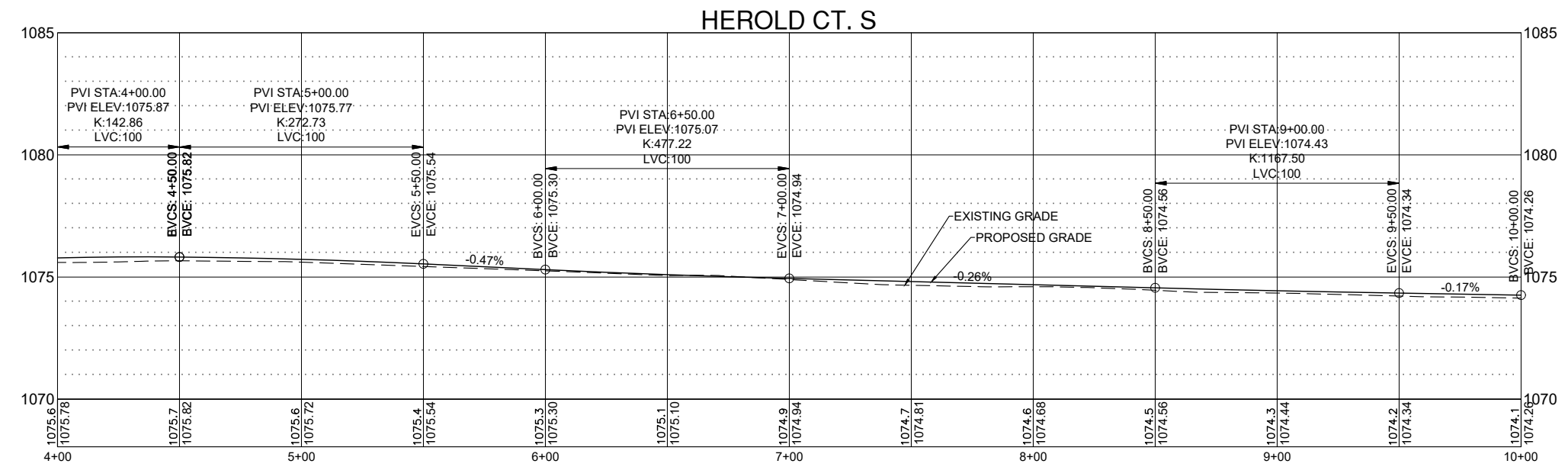


I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: KRISTOPHER R. CARLSON

Signed:

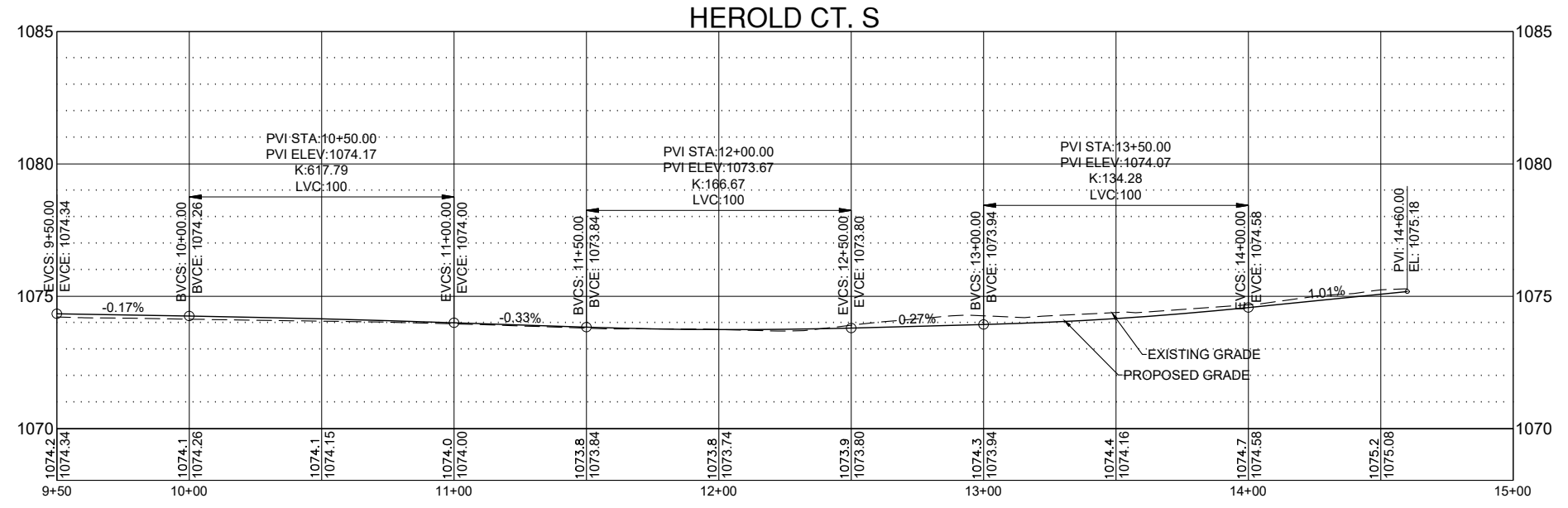
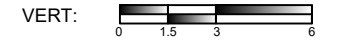
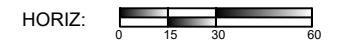
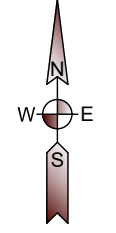
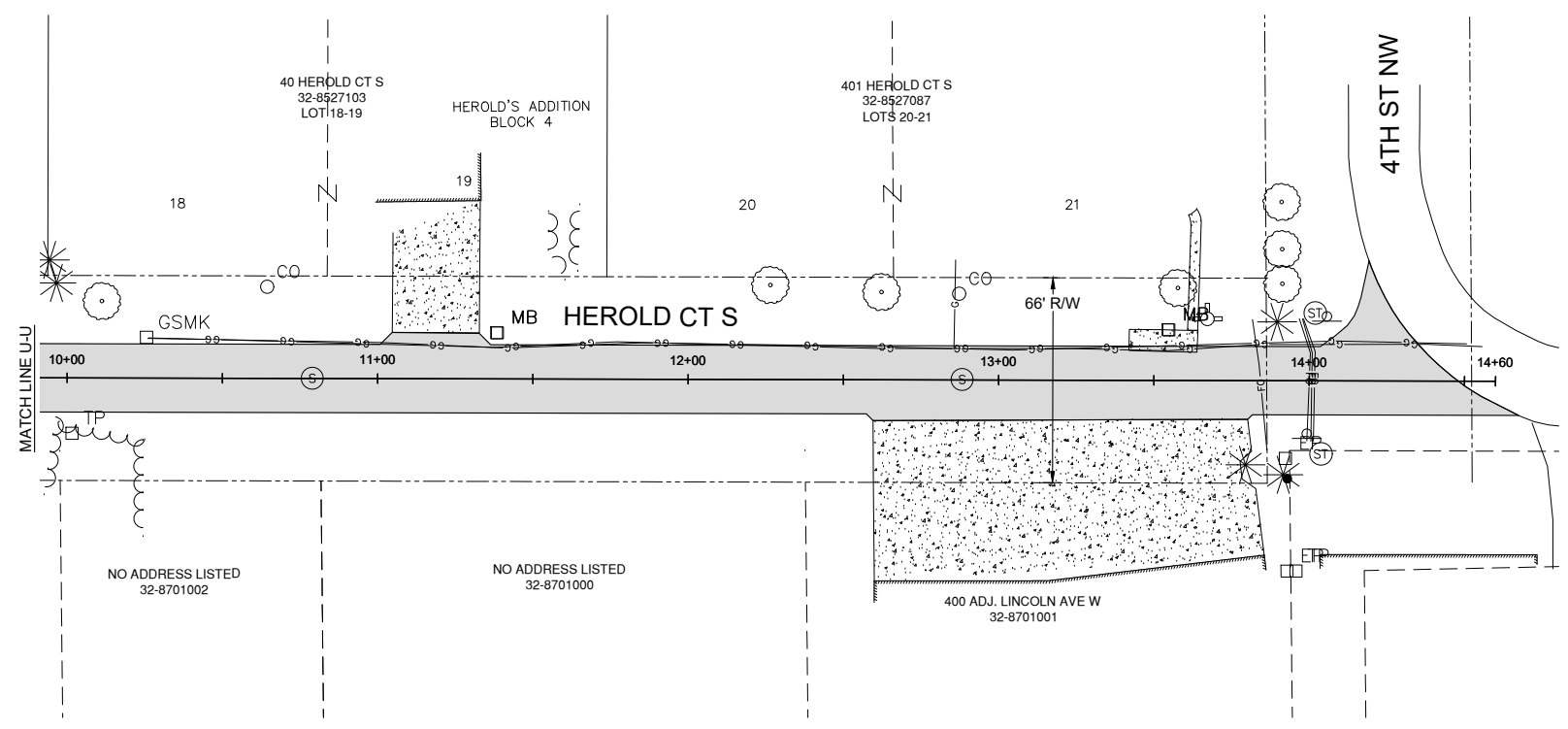
Date: 05-28-2025 License Number: 47082



**Ulteig** 1345 Hwy 10 West  
 Detroit Lakes, Minnesota 56501  
 Phone: 701.280.8500  
 Web: www.ulteig.com  
 We listen. We solve.™

<b>PLAN AND PROFILES</b>	
----	
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN	
DRAWN BY: M. JENSON	
CHECKED BY: A. RANZ	
APPROVED BY: K. CARLSON	
DATE: XX, 2025	UEI PROJ. NO: 23-24232

REVISION NO.	SECTION NO.	SHEET NO.
---	060	7



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.

Print Name: KRISTOPHER R. CARLSON

Signed: *[Signature]*

Date: 05-28-2025 License Number: 47082



**Ulteig**  
 1345 Hwy 10 West  
 Detroit Lakes, Minnesota 56501  
 Phone: 701.280.8500  
 Web: www.ulteig.com  
 We listen. We solve.

PLAN AND PROFILES ---
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN
DRAWN BY: M. JENSON
CHECKED BY: A. RANZ
APPROVED BY: K. CARLSON
DATE: XX, 2025      UEI PROJ. NO: 23.24232

# STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE

PROJECT NAME: SANITARY SEWER COLLECTION AND WASTEWATER TREATMENT FACILITY IMPROVEMENTS  
 PROJECT DESCRIPTION: GRADING, AGGREGATE BASE, SANITARY SEWER, PAVING

PROJECT LOCATION: TWIN VALLEY, MN

LATITUDE 47°16'00.93" N - LONGITUDE 96°16'23.84" W

## OWNER CONTACT INFORMATION

RACHAEL JOHNSON  
 CITY OF TWIN VALLEY ADMINISTRATOR  
 TWIN VALLEY, MN 56584  
 (218) 584-5254

## THE PLANNED SCOPE OF THE PROJECT INCLUDES:

PAVEMENT REMOVALS, UNDERGROUND UTILITY INSTALLATION,  
 PAVEMENT REPLACEMENT, GRADING AND SITE RESTORATION

## LAND FEATURE CHANGES

TOTAL DISTURBED AREA	2.199 ACRES
TOTAL EXISTING IMPERVIOUS SURFACE AREA	1.740 ACRES
TOTAL PROPOSED IMPERVIOUS SURFACE AREA	1.740 ACRES

## SPECIAL AND IMPAIRED WATERS

PER A MPCA SEARCH FOR SPECIAL AND IMPAIRED WATERS ON FEBRUARY 19, 2016, THERE ARE NO SPECIAL OR IMPAIRED WATERS LOCATED WITHIN ONE MILE OF THE PROJECT LIMITS THAT RECEIVE RUNOFF FROM THE PROJECT SITE.

## AREAS OF ENVIRONMENTAL SENSITIVITY (AES) AND INFESTED WATERS

IT HAS BEEN DETERMINED THAT THERE ARE WETLANDS ADJACENT TO THE PROJECT BOUNDARY. AS SHOWN ON THE PROJECT PLANS, A SILT FENCE IS TO BE INSTALLED OUTSIDE OF THE WETLANDS TO PROTECT THE WETLANDS. THERE ARE NO INFESTED WATERS NEAR THE SITE.

## SOIL TYPES

SOIL TYPES TYPICALLY FOUND ON THIS PROJECT ARE FINE SAND, LOAMY FINE SAND, SAND LOAM, LOAM, FINE SANDY LOAM, VERY FINE LOAM SAND, SANDY LOAM, VERY GRAVELLY LOAMY COARSE SAND AND VERY GRAVELLY COARSE SAND

## LONG TERM MAINTENANCE AND OPERATION

AFTER THE PROJECT HAS BEEN COMPLETED, THIS AREA WILL CONTINUE TO BE OWNED BY CITY OF TWIN VALLEY.

## PROJECT PERSONNEL AND TRAINING:

THIS SWPPP WAS PREPARED BY PERSONNEL THAT ARE CERTIFIED IN THE DESIGN OF CONSTRUCTION SWPPPS.

NAME OF SWPPP PREPARER:	KRISTOPHER R. CARLSON
DATE OF SWPPP TRAINING:	DECEMBER 8, 2023
EXPIRATION DATE:	MAY 27, 2027
NAME OF INSTRUCTOR:	JOHN CHAPMAN
ENTITY PROVIDING TRAINING:	UNIVERSITY OF MINNESOTA
CONTENT OF TRAINING COURSE:	DESIGN OF CONSTRUCTION SWPPP

PROVIDE A CERTIFIED EROSION CONTROL SUPERVISOR IN GOOD STANDING WHO IS KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES. THE EROSION CONTROL SUPERVISOR WILL WORK WITH THE PROJECT ENGINEER TO OVERSEE THE IMPLEMENTATION OF THE SWPPP AND THE INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMP'S BEFORE, DURING AND AFTER CONSTRUCTION UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA. PROVIDE PROOF OF CERTIFICATION AT THE PRECONSTRUCTION MEETING. WORK WILL NOT BE ALLOWED TO COMMENCE UNTIL PROOF OF CERTIFICATION HAS BEEN PROVIDED TO THE PROJECT ENGINEER.

PROVIDE AT LEAST ONE CERTIFIED INSTALLER FOR EACH CONTRACTOR OR SUBCONTRACTOR THAT INSTALLS THE PRODUCTS UTILIZED ON THIS PROJECT. PROVIDE PROOF OF CERTIFICATION AT THE PRECONSTRUCTION MEETING. WORK WILL NOT BE ALLOWED TO COMMENCE UNTIL PROOF OF CERTIFICATION HAS BEEN PROVIDED TO THE PROJECT ENGINEER.

## CHAIN OF RESPONSIBILITY

THE OWNER AND THE CONTRACTOR ARE COPERMITTEES FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION PERMIT. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION PERMIT AT ALL TIMES UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA. THE CONTRACTOR WILL DEVELOP A CHAIN OF COMMAND WITH ALL OPERATORS ON THE SITE TO ENSURE THAT THE SWPPP WILL BE IMPLEMENTED AND STAY IN EFFECT UNTIL THE CONSTRUCTION PROJECT IS COMPLETE. THE ENTIRE SITE HAS UNDERGONE FINAL STABILIZATION, AND A NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED TO THE MPCA.

## PROJECT CONTACTS

THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPP AND INSTALLATION, INSPECTION AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMP'S BEFORE, DURING AND AFTER CONSTRUCTION UNTIL THE NOTICE OF TERMINATION HAS BEEN FILED. THE PROJECT ENGINEER IS ALSO AVAILABLE FOR TECHNICAL ASSISTANCE.

ORGANIZATION	COMPANY	CONTACT NAME	PHONE	DATE OF TRAINING
SWPPP INSPECTOR				
SWPPP INSTALLER				

## LOCATION OF SWPPP REQUIREMENTS

THE REQUIRED SWPPP ELEMENTS MAY BE LOCATED IN MANY PLACES WITHIN THE PLAN SET AS WELL AS IN THE PROJECT SPECIFICATIONS. THE NOTES AND TABLE BELOW ARE INTENDED TO BE A QUICK REFERENCE FOR THE CONTRACTOR TO USE IN THE FIELD. THERE MAY BE ADDITIONAL REQUIRED SWPPP ELEMENTS INCLUDED ON THE PROJECT THAT ARE NOT LISTED ON THIS SHEET. SEE INDEX OF DRAWINGS

## SITE INSPECTION AND MAINTENANCE

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

INSPECT SURROUNDING PROPERTIES FOR EVIDENCE OF OFF SITE SEDIMENT ACCUMULATION.

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

- DATE AND TIME OF INSPECTION.
- NAME OF PERSONS CONDUCTING INSPECTIONS
- FINDINGS OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIONS.
- CORRECTIVE ACTIONS TAKEN, INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES
- DATE AND AMOUNT OF RAINFALL EVENTS GREATER THAN 0.5 INCH IN 24 HOURS
- DOCUMENTS AND CHANGES MADE TO THE SWPPP

REPLACE, REPAIR OR SUPPLEMENT ALL NONFUNCTIONAL BMP'S BY THE END OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY UNLESS LISTED DIFFERENTLY BELOW:

- REPAIR, REPLACE, OR SUPPLEMENT PERIMETER CONTROL DEVICES WHEN IT BECOMES NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT OF THE DEVICE. COMPLETE REPAIRS BY THE END OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY.
- REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS. RESTABILIZE ANY AREAS THAT ARE DISTURBED BY SEDIMENT REMOVAL OPERATIONS. SEDIMENT REMOVAL AND STABILIZATION MUST BE COMPLETED WITHIN 7 DAYS OF DISCOVERY. PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR WORKING IN SURFACE WATERS. CONTACT ALL APPROPRIATE AUTHORITIES PRIOR TO WORKING IN SURFACE WATERS.
- REMOVE TRACKED SEDIMENT FROM PAVED SURFACES BOTH ON AND OFF SITE WITHIN 24 HOURS OF DISCOVERY. STREET SWEEPING MAY HAVE TO OCCUR MORE OFTEN TO MINIMIZE OFF SITE IMPACTS. LIGHTLY WET THE PAVEMENT PRIOR TO SWEEPING.
- MAINTAIN ALL BMP'S UNTIL WORK HAS BEEN COMPLETED, SITE HAS GONE UNDER FINAL STABILIZATION, AND THE NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED TO THE MPCA.

## ENVIRONMENTAL REVIEW - TO THE BEST OF OUR KNOWLEDGE

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

THIS PROJECT IS LOCATED IN A WELL HEAD PROTECTION AREA.

THIS PROJECT IS LOCATED IN A DRINKING WATER SUPPLY MANAGEMENT AREA (DWSMA).

## STABILIZATION TIME FRAMES

AREA	TIME FRAME	NOTES
LAST 200 LINEAL FEET OF DRAINAGE DITCH OR SWALE	WITHIN 24 HOURS OF CONNECTION TO SURFACE WATER OF PROPERTY EDGE	1, 2, 3
REMAINING PORTIONS OF DRAINAGE DITCH OR SWALE	14 DAYS/7DAYS	1, 3
PIPE AND CULVERTS OUTLETS	24 HOURS	
EXPOSED SOILS AND STOCKPILES	14 DAYS/7DAYS	1
WITHIN 200 FEET OF A PUBLIC WATER	24 HOURS	7

- INITIATE STABILIZATION IMMEDIATELY WHEN CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED ON ANY PORTION OF THE PROJECT COMPLETE STABILIZATION WITHIN THE TIME FRAME LISTED. IN MANY INSTANCES THIS WILL REQUIRE STABILIZATION TO OCCUR MORE THAN ONCE DURING THE COURSE OF THE PROJECT. TEMPORARY SOIL STOCKPILES WITHOUT SIGNIFICANT CLAY OR SILT AND STOCKPILED AND CONSTRUCTED ROAD BASE ARE EXEMPT FROM THE STABILIZATION REQUIREMENT.
- STABILIZE WETTED PERIMETER OF DITCH (I.E. WHERE THE DITCH GETS WET).
- APPLICATION OF MULCH, HYDROMULCH, TACKIFIER AND POLYACRYLAMIDE ARE NOT ACCEPTABLE STABILIZATION METHODS IN THESE AREAS.
- STABILIZE ALL AREAS OF THE SITE PRIOR TO THE ONSET OF WINTER. ANY WORK STILL BEING PERFORMED WILL BE SNOW MULCHED, SEEDED, AND BLANKETED WITHIN THE TIME FRAMES IN THE NPDES PERMIT.
- TOPSOIL BERMS MUST BE STABILIZED IN ORDER TO BE CONSIDERED PERIMETER CONTROL BMP'S. USE RAPID STABILIZATION METHOD 2, 3, OR 4 AS DIRECTED BY THE ENGINEER. THE SEED MIX USED IN THE RAPID STABILIZATION MAY BE SUBSTITUTED AS FOLLOWS:
  - SINGLE YEAR CONSTRUCTION BETWEEN MAY 1 - AUGUST 1, SEED WITH SEED MIXTURE 21-111
  - SINGLE YEAR CONSTRUCTION BETWEEN AUGUST 1 AND OCTOBER 31, SEED WITH SEED MIXTURE 21-112
  - MULTI YEAR CONSTRUCTION 22-111
- KEEP DITCHES AND EXPOSED SOILS IN AN EVEN ROUGH GRADED CONDITION IN ORDER TO BE ABLE TO APPLY EROSION CONTROL MULCHES, HYDROMULCHES AND BLANKETS.
- SEE WATER RESOURCES NOTES FOR A LIST OF PUBLIC WATER EXCLUSION DATES. TWENTY FOUR HOUR STABILIZATION REQUIREMENT ONLY APPLIES DURING THE EXCLUSION DATES.

## ESTIMATED PRELIMINARY BMP QUANTITIES

THE FOLLOWING QUANTITIES IS AN ESTIMATED PRELIMINARY AMOUNT REQUIRED FOR SEDIMENT CONTROL BMP'S AT THE START OF THE PROJECT. ADDITIONAL AND/OR REPLACEMENT BMP'S QUANTITIES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

## ESTIMATED PRELIMINARY QUANTITIES AT START OF PROJECT

ITEM	UNIT	ESTIMATED INITIAL QUANTITY
TEMPORARY BIO ROLL	LF	N/A
TURF RESTORATION	AC	0.459
INLET PROTECTION	EA	10

## GENERAL SWPPP NOTES FOR CONSTRUCTION ACTIVITY

- 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
- AMEND THE SWPPP, AS NECESSARY AS SITE CONDITIONS CHANGE. AT NO COST TO THE OWNER, AND DOCUMENT ANY AND ALL CHANGES TO THE SWPPP AND ASSOCIATED PLAN SHEETS IN A TIMELY MANNER. STORE THE SWPPP AND ALL AMENDMENTS ON SITE AT ALL TIMES.
- IT IS THE DESIGNER'S INTENT THAT THE CONTRACTOR PLACE EROSION CONTROL BMP'S BEFORE PUTTING THEM INTO ACTIVE SERVICE TO THE MAXIMUM EXTENT PRACTICABLE.
- BURNING OF ANY MATERIAL IS NOT ALLOWED WITHIN PROJECT BOUNDARY.
- DO NOT DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS. DELINEATE AREAS NOT TO BE DISTURBED PRIOR TO STARTING GROUND DISTURBING ACTIVITIES. IF IT BECOMES NECESSARY TO DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS OBTAIN WRITTEN PERMISSION FROM THE PROJECT ENGINEER PRIOR TO PROCEEDING. PRESERVE ALL NATURAL BUFFERS SHOWN ON THE PLANS.
- ROUTE STORMWATER AROUND UNSTABILIZED AREAS OF THE SITE WHENEVER FEASIBLE. PROVIDE EROSION CONTROL AND VELOCITY DISSIPATION DEVICES AS NEEDED TO KEEP CHANNELS FROM ERODING AND TO PREVENT NUISANCE CONDITIONS AT THE OUTLET.
- DIRECT DISCHARGES FROM BMP'S TO VEGETATED AREAS WHENEVER FEASIBLE. PROVIDE VELOCITY DISSIPATION DEVICES AS NEEDED TO PREVENT EROSION.
- THE EROSION PREVENTION AND SEDIMENT CONTROL BMP'S SHALL BE PLACED AS NECESSARY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND TO CAPTURE SEDIMENT ON SITE. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF ANY REMOVAL WORK AND/OR GROUND DISTURBING ACTIVITIES COMMENCE.

ESTABLISH SEDIMENT CONTROL DEVICES ON ALL DOWN GRADIENT PERIMETERS AND UPGRADIENT OF ANY BUFFER ZONES BEFORE ANY UP GRADIENT LAND DISTURBING ACTIVITIES BEGIN. MAINTAIN SEDIMENT CONTROL DEVICES UNTIL CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

- LOCATE PERIMETER CONTROL ON THE CONTOUR TO CAPTURE OVERLAND, LOW- VELOCITY SHEET FLOWS DOWN GRADIENT OF ALL EXPOSED SOILS AND PRIOR TO DISCHARGING TO SURFACE WATERS. PLACE J-HOOKS AT A MAXIMUM OF 100 FOOT INTERVALS.
- PROVIDE PERIMETER CONTROL AROUND ALL STOCKPILES. PLACE BMP A MINIMUM 5 FEET FROM THE TOE OF SLOPE WHERE FEASIBLE. DO NOT PLACE STOCKPILES IN NATURAL BUFFER AREAS, SURFACE WATERS OR STORMWATER CONVEYANCES.
- DITCH CHECKS WILL BE PLACED AS INDICATED ON THE PLANS DURING ALL PHASES OF CONSTRUCTION.
- PROTECT STORM SEWER INLETS AT ALL TIMES WITH THE APPROPRIATE INLET PROTECTION FOR EACH SPECIFIC PHASE OF CONSTRUCTION. PROVIDE INLET PROTECTION DEVICES WITH EMERGENCY OVERFLOW CAPABILITIES. SILT FENCE PLACED IN THE INLET GRATE IS NOT AN ACCEPTABLE INLET PROTECTION BMP FOR GRADING OPERATIONS. SILT FENCE PLACED IN THE GRATE IS ONLY ALLOWED FOR SHORT INTERVALS DURING MILLING OR PAVING OPERATIONS. INLET PROTECTION DEVICES MAY NEED TO BE PLACED MULTIPLE TIMES IN THE SAME LOCATION OVER THE LIFE OF THE CONTRACT. INLET PROTECTION DEVICES WILL BE PAID FOR ONCE PER INLET REGARDLESS OF THE NUMBER OF TIMES THE BMP IS PLACED. KEEP ALL STORM SEWER INLET PROTECTION DEVICES IN GOOD FUNCTIONAL CONDITION AT ALL TIMES. REPLACE INLET PROTECTION DEVICE WITH A SUITABLE ALTERNATIVE IF THE PROJECT ENGINEER DEEMS AN INLET PROTECTION DEVICE TO BE NONFUNCTIONAL, IN POOR CONDITION, INEFFECTIVE, OR NOT APPROPRIATE FOR THE CURRENT CONSTRUCTION ACTIVITIES. THERE WILL BE NO COST TO MNDOT FOR REPLACEMENT OF INLET PROTECTION DEVICES.
- PLACE CONSTRUCTION EXITS, AS NECESSARY, TO PREVENT TRACKING OF SEDIMENT ONTO PAVED SURFACES BOTH ON AND OFF THE PROJECT SITE. PROVIDE CONSTRUCTION EXITS OF SUFFICIENT SIZE TO PREVENT TRACK OUT. MAINTAIN CONSTRUCTION EXITS WHEN EVIDENCE OF TRACKING IS DISCOVERED. REGULAR STREET SWEEPING IS NOT AN ACCEPTABLE ALTERNATIVE TO PROPER CONSTRUCTION EXIT INSTALLATION AND MAINTENANCE.
- DISCHARGE TURBID OR SEDIMENT LADEN WATER TO TEMPORARY SEDIMENT BASINS WHENEVER FEASIBLE. IN THE EVENT THAT IT IS NOT FEASIBLE TO DISCHARGE THE SEDIMENT LADEN WATER TO A TEMPORARY SEDIMENT BASIN, THE WATER MUST BE TREATED SO THAT IT DOES NOT CAUSE A NUISANCE CONDITION IN THE RECEIVING WATERS OR TO DOWNSTREAM LANDOWNERS. CLEAN OUT ALL PERMANENT STORMWATER BASINS REGARDLESS OF WHETHER USED AS TEMPORARY SEDIMENT BASINS OR TEMPORARY SEDIMENT TRAPS TO THE DESIGN CAPACITY AFTER ALL UPGRADIENT LAND DISTURBING ACTIVITY IS COMPLETED.
- PROVIDE SCOUR PROTECTION AT ANY OUTFALL OF DEWATERING ACTIVITIES.
- PROVIDE STABILIZATION IN ANY TRENCHES CUT FOR DEWATERING OR SITE DRAINING PURPOSES.
- REMOVE SEDIMENT FROM STORMWATER SYSTEM AT THE END OF PROJECT.
- PRESERVE A 50 FOOT NATURAL BUFFER OR (IF BUFFER IS INFEASIBLE) PROVIDE REDUNDANT SEDIMENT CONTROLS WHEN A SURFACE WATER IS LOCATED WITHIN 50 FEET OF LAND DISTURBANCE AND STORMWATER FLOWS TO THE SURFACE WATER.
- FIBER ROLLS MAY BE USED INLIEU OF SILT FENCE, AS PROVIDED ON THE EROSION CONTROL PLAN SHEETS OR AS DETERMINED NECESSARY IN THE FIELD.
- CONSTRUCT SLOPES NO STEEPER THAN 3:1. CONSULT GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION ON SLOPE PROTECTION FROM EROSION.
- SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION UNTIL PERMANENT STABILIZATION IS IMPLEMENTED.

## POLLUTION PREVENTION

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

REVISION NO.	SECTION NO.	SHEET NO.
----	075	1
----		

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.

Print Name: KRISTOPHER R. CARLSON

Signed: 

Date: 05-28-2025 License Number: 47082




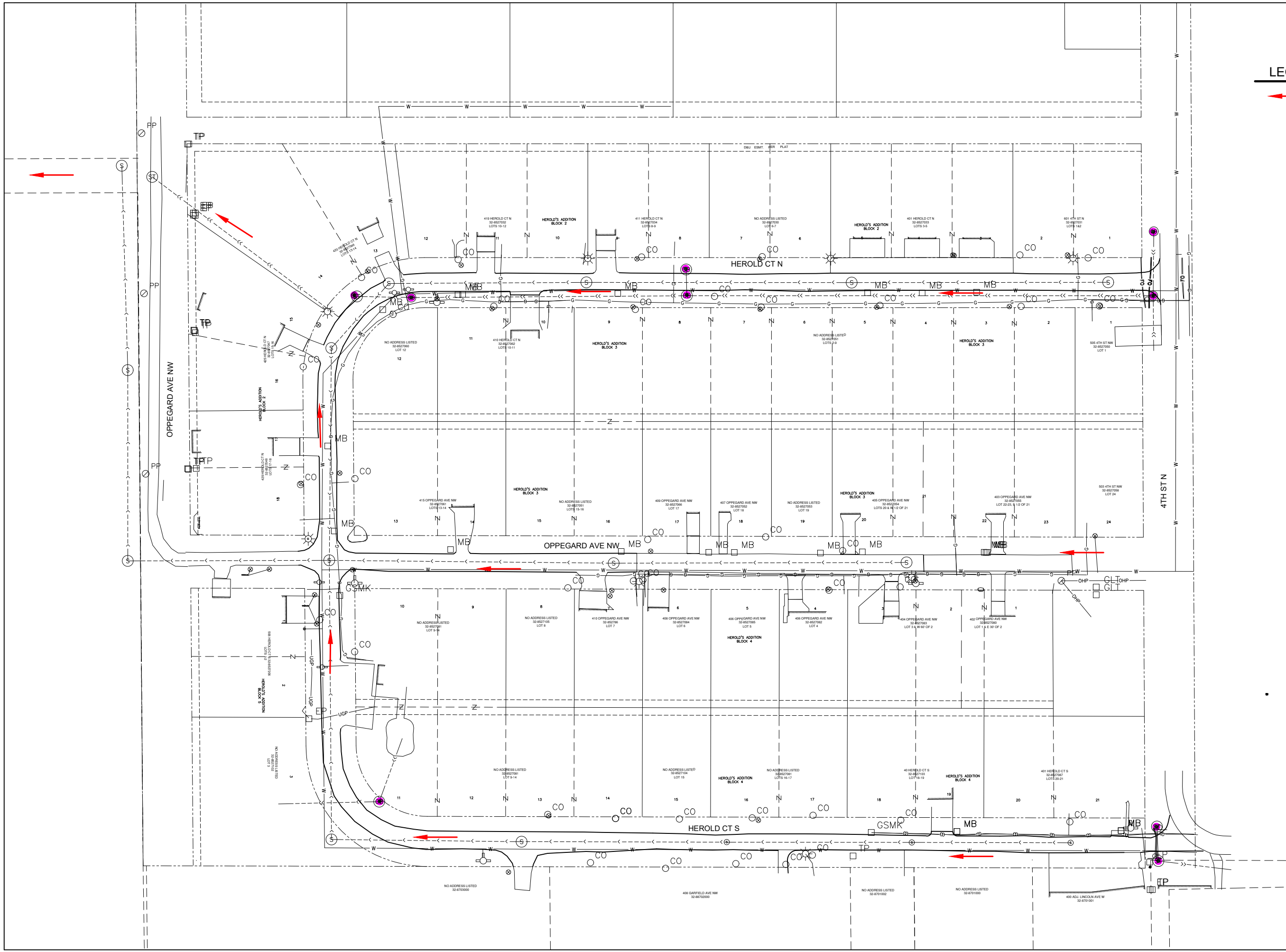
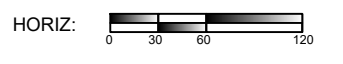
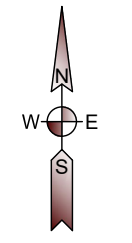
**Ulteig**  
 We listen. We solve.<sup>SM</sup>

1345 Hwy 10 West  
 Detroit Lakes, Minnesota 56501  
 Phone: 701.280.8500  
 Web: www.ulteig.com

SWPPP	
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN	
DRAWN BY: M. JENSON	
CHECKED BY: A. RANZ	
APPROVED BY: K. CARLSON	
DATE: XX, 2025	UEI PROJ. NO: 23-24232

REVISION NO.	SECTION NO.	SHEET NO.
----	075	2

**LEGEND**  
 EXISTING FLOW ARROWS



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.

Print Name: KRISTOPHER R. CARLSON

Signed: 


Date: 05-28-2025 License Number: 47082

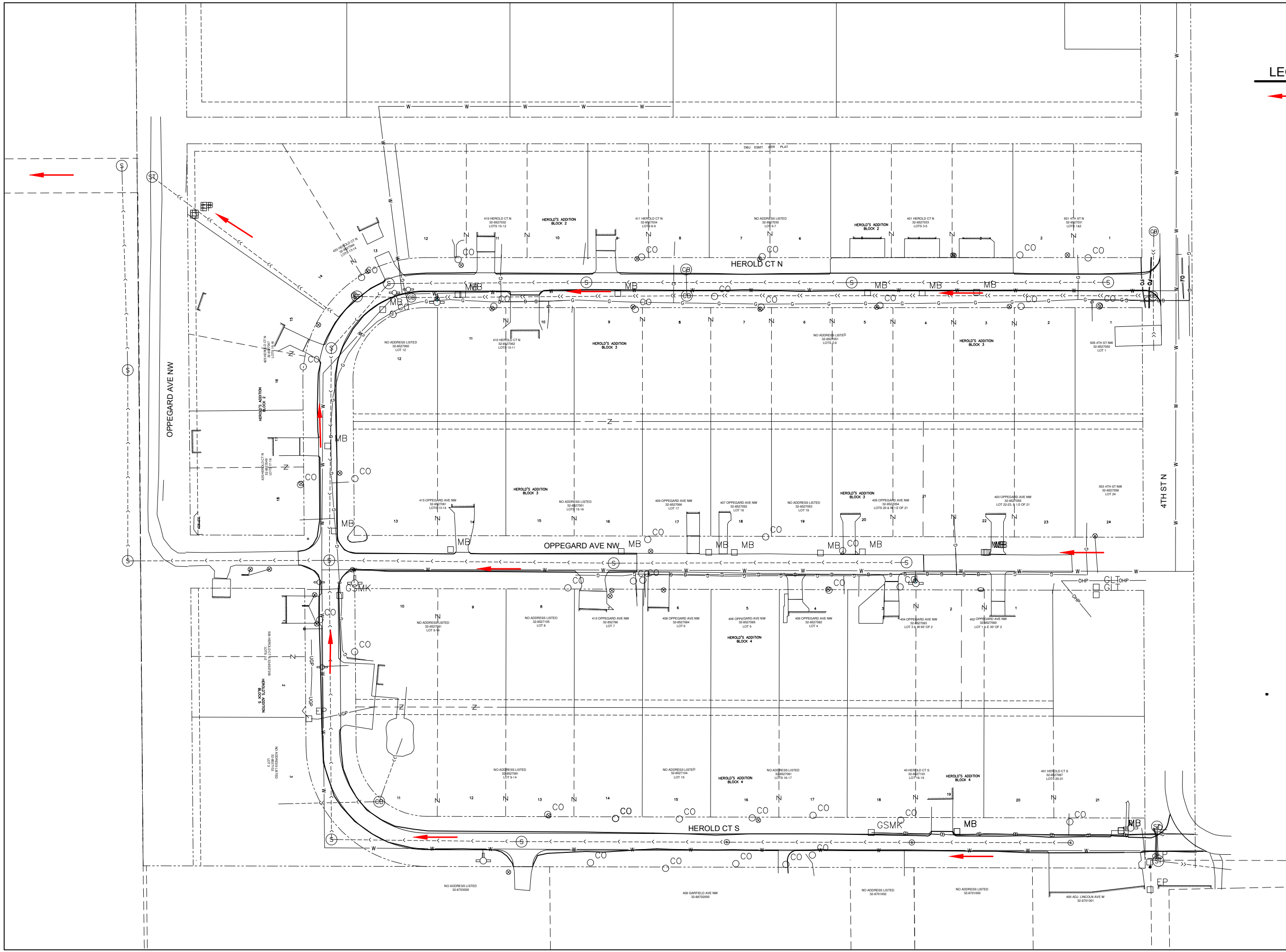
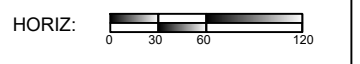
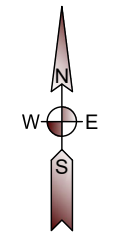


**Ulteig** 1345 Hwy 10 West  
 Detroit Lakes, Minnesota 56501  
 Phone: 701.280.8500  
 Web: www.ulteig.com  
 We listen. We solve™

EXISTING DRAINAGE
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN
DRAWN BY: M. JENSON
CHECKED BY: A. RANZ
APPROVED BY: K. CARLSON
DATE: XX, 2025      UEI PROJ. NO: 23-24232

REVISION NO.	SECTION NO.	SHEET NO.
---	075	3

**LEGEND**  
 PROPOSED FLOW ARROWS



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.

Print Name: KRISTOPHER R. CARLSON

Signed: 

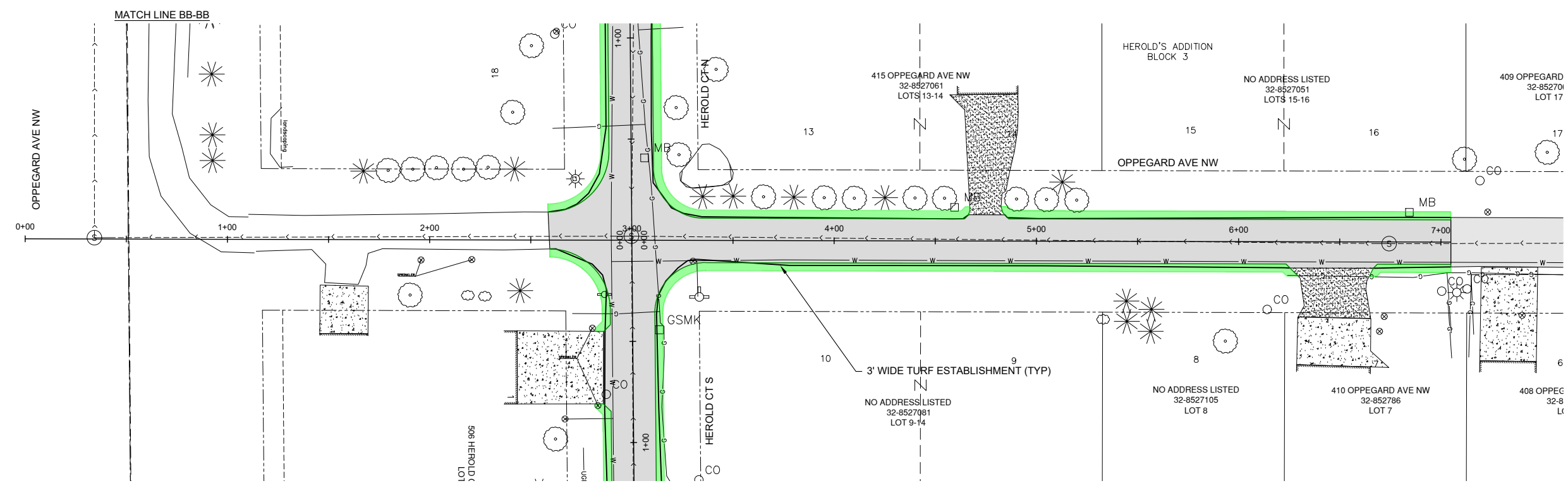
Date: 05-28-2025 License Number: 47082



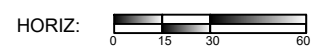
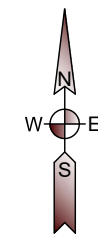
**Ulteig** 1345 Hwy 10 West  
 Detroit Lakes, Minnesota 56501  
 Phone: 701.280.8500  
 Web: www.ulteig.com  
 We listen. We solve™

<b>PROPOSED DRAINAGE</b>	
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN	
DRAWN BY: M. JENSON	
CHECKED BY: A. RANZ	
APPROVED BY: K. CARLSON	
DATE: XX, 2025	UEI PROJ. NO: 23.24232

REVISION NO.	SECTION NO.	SHEET NO.
----	075	4



- LEGEND**
- BR — BR BIO-ROLL
  - TURF ESTABLISHMENT
  - INLET PROTECTION



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.

Print Name: KRISTOPHER R. CARLSON

Signed:

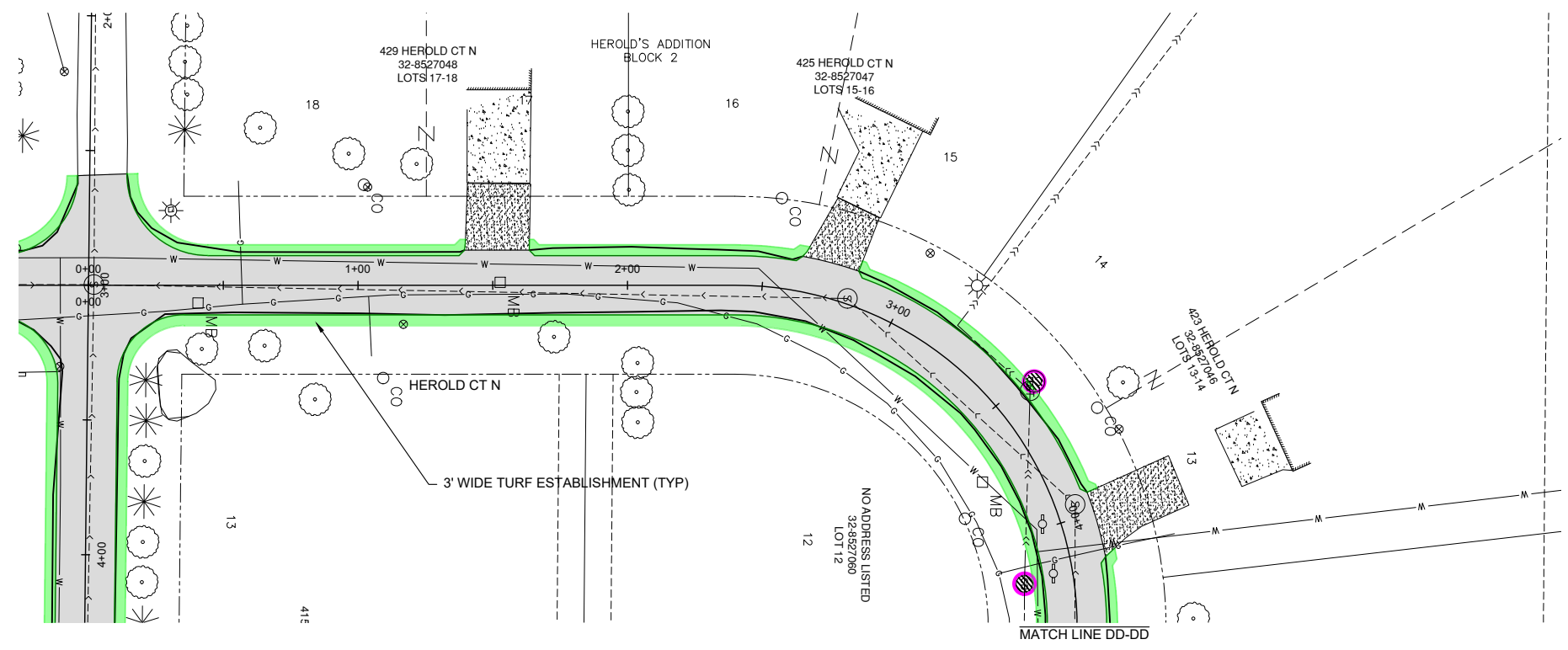
Date: 05-28-2025 License Number: 47082






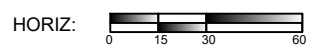
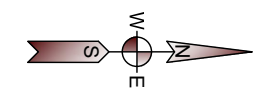
**Ulteig**  
 1345 Hwy 10 West  
 Detroit Lakes, Minnesota 56501  
 Phone: 701.280.8500  
 Web: www.ulteig.com  
We listen. We solve.

EROSION CONTROL ----
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN
DRAWN BY: M. JENSON
CHECKED BY: A. RANZ
APPROVED BY: K. CARLSON
DATE: XX, 2025      UEI PROJ. NO: 23.24232

REVISION NO.	SECTION NO.	SHEET NO.
----	075	5



- LEGEND**
-  BIO-ROLL
  -  TURF ESTABLISHMENT
  -  INLET PROTECTION

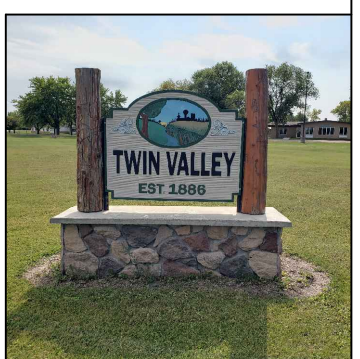
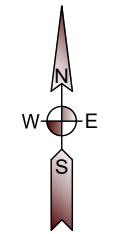
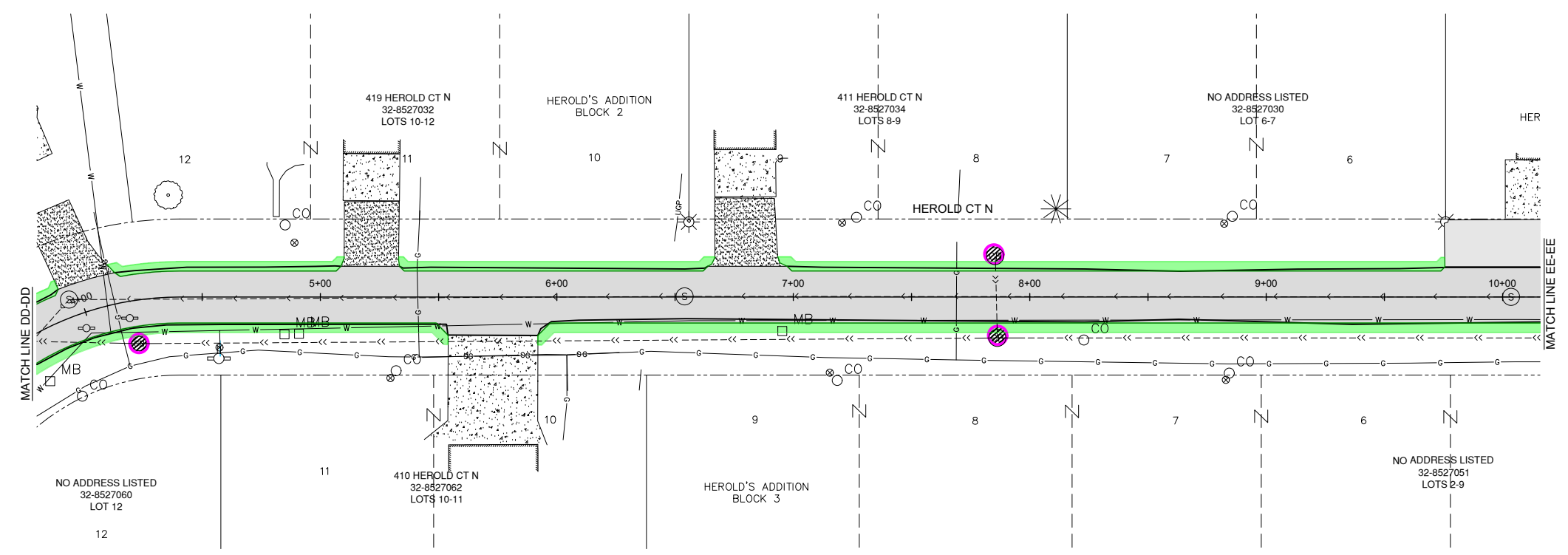


I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: KRISTOPHER R. CARLSON

Signed: 

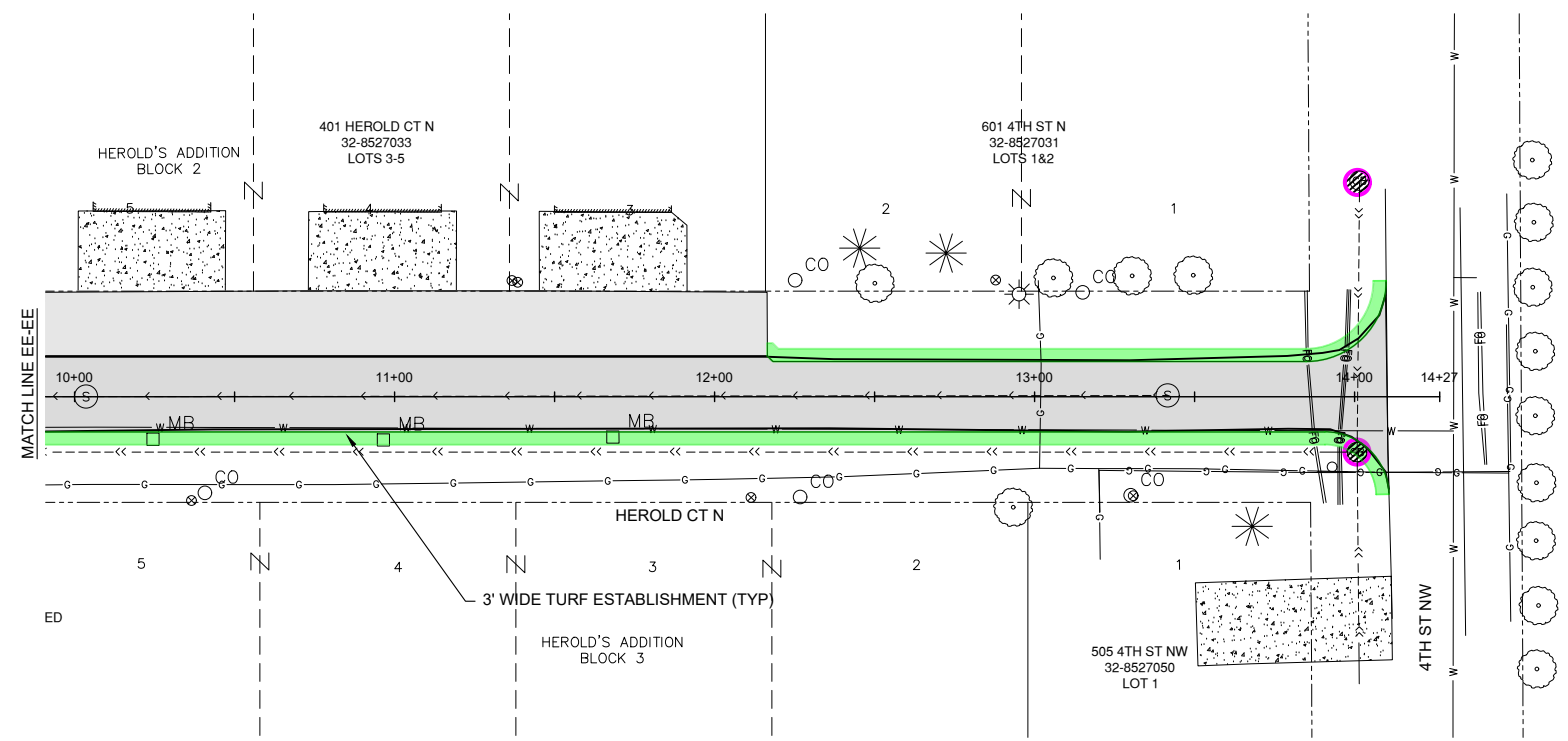
Date: 05-28-2025 License Number: 47082






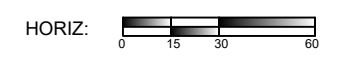
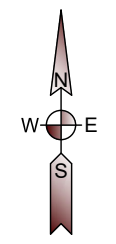
**Ulteig** 1345 Hwy 10 West  
 Detroit Lakes, Minnesota 56501  
 Phone: 701.280.8500  
 Web: www.ulteig.com  
 We listen. We solve.™

EROSION CONTROL ----
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN
DRAWN BY: M. JENSON
CHECKED BY: A. RANZ
APPROVED BY: K. CARLSON
DATE: XX, 2025    UEI PROJ. NO: 23.24232

REVISION NO.	SECTION NO.	SHEET NO.
----	075	6



- LEGEND**
-  BIO-ROLL
  -  TURF ESTABLISHMENT
  -  INLET PROTECTION



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.

Print Name: KRISTOPHER R. CARLSON

Signed: 

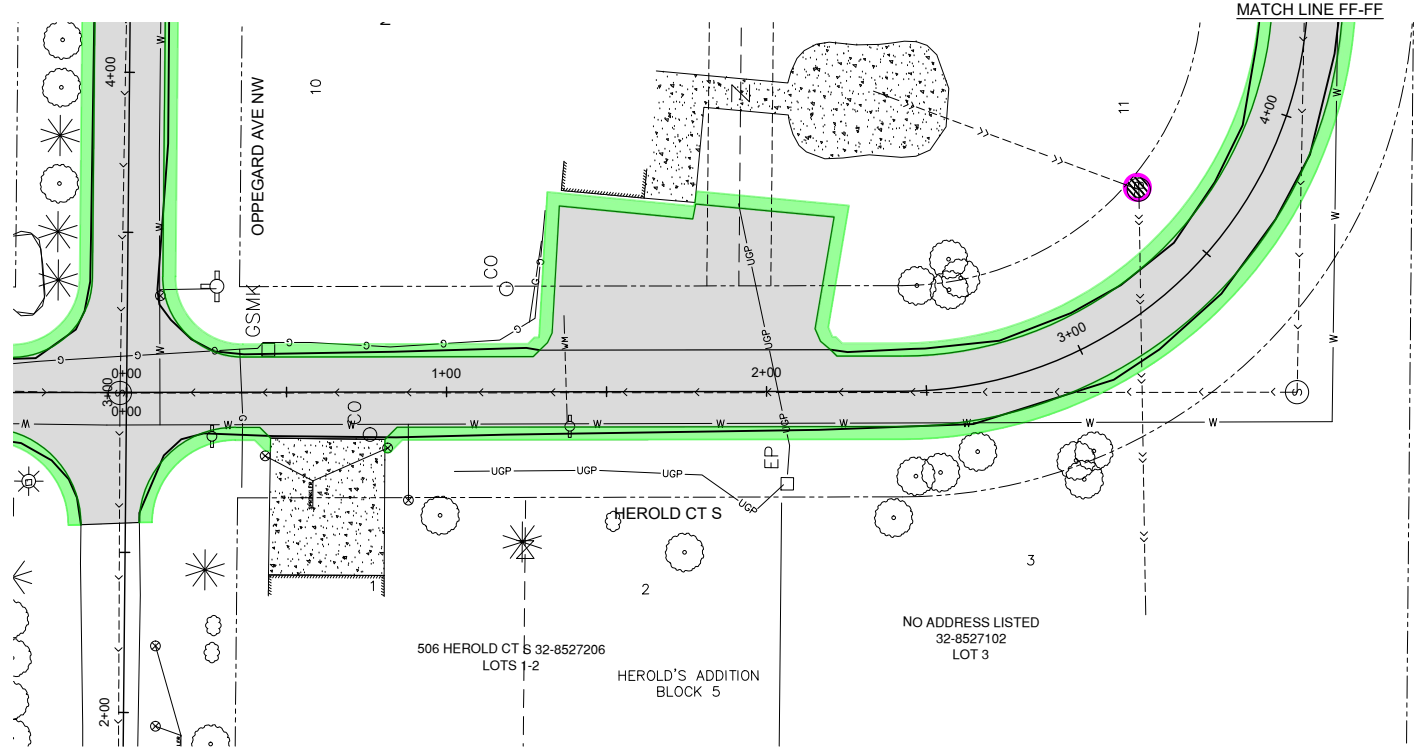
Date: 05-28-2025 License Number: 47082




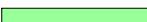

**Ulteig**  
 1345 Hwy 10 West  
 Detroit Lakes, Minnesota 56501  
 Phone: 701.280.8500  
 Web: www.ulteig.com  
 We listen. We solve.™

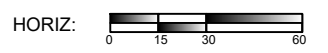
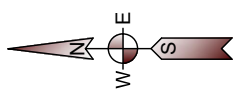
EROSION CONTROL ----
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN
DRAWN BY: M. JENSON
CHECKED BY: A. RANZ
APPROVED BY: K. CARLSON
DATE: XX, 2025      UEI PROJ. NO: 23.24232

REVISION NO.	SECTION NO.	SHEET NO.
----	075	7



**LEGEND**

	BIO-ROLL
	TURF ESTABLISHMENT
	INLET PROTECTION

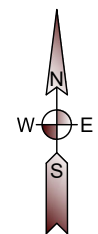
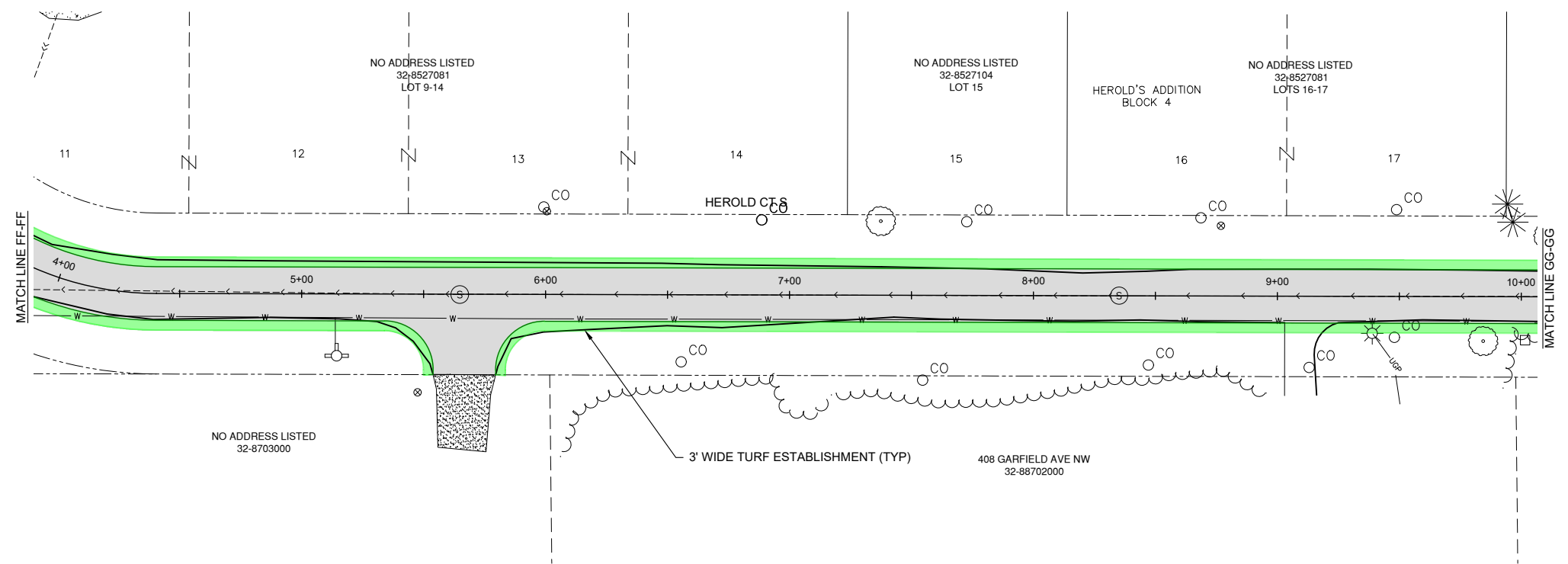


I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: KRISTOPHER R. CARLSON

Signed: 

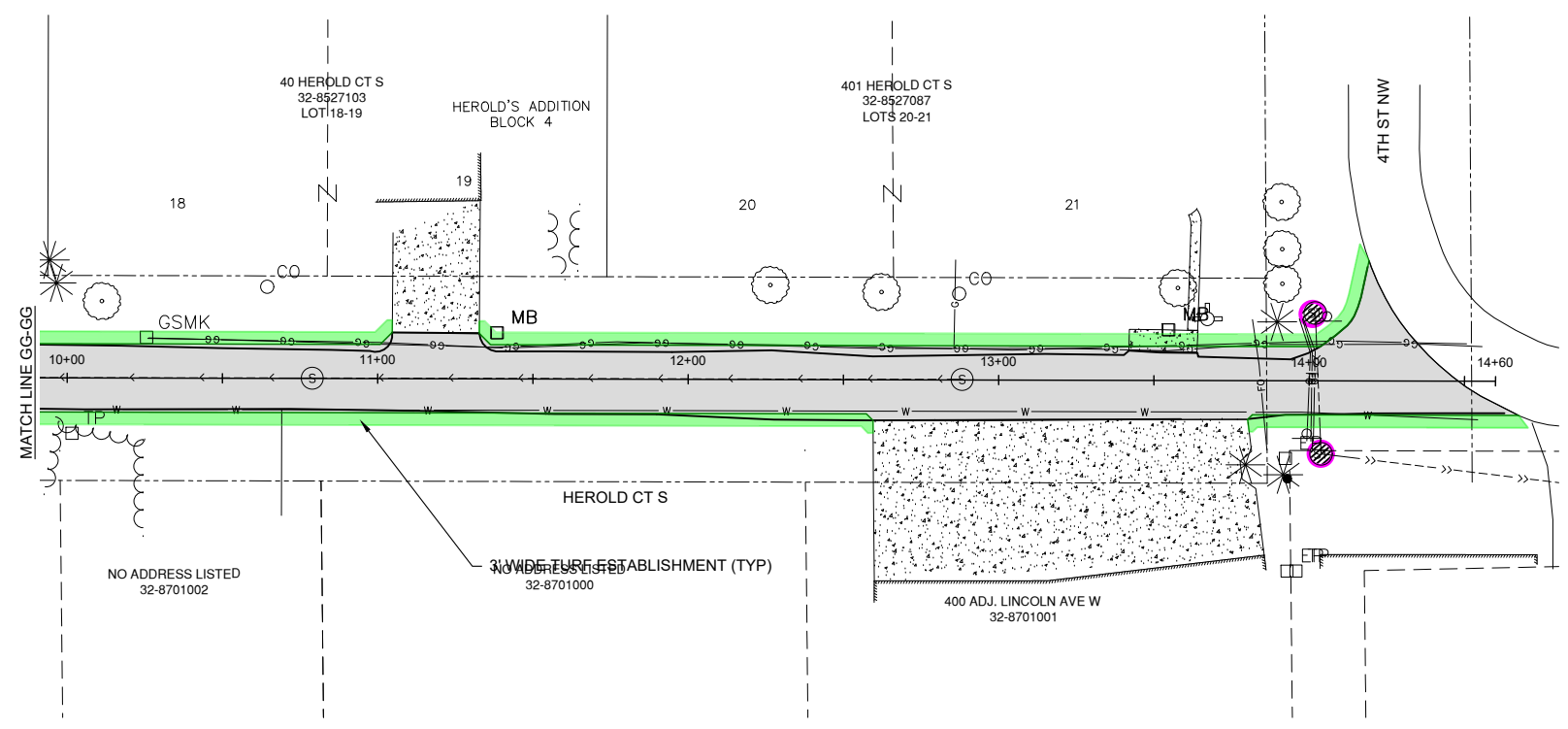
Date: 05-28-2025 License Number: 47082



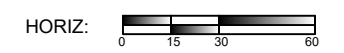
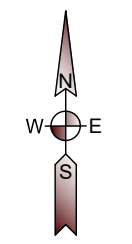
**Ulteig** 1345 Hwy 10 West  
 Detroit Lakes, Minnesota 56501  
 Phone: 701.280.8500  
 Web: www.ulteig.com  
 We listen. We solve™

<b>EROSION CONTROL</b>	
----	
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN	
DRAWN BY: M. JENSON	
CHECKED BY: A. RANZ	
APPROVED BY: K. CARLSON	
DATE: XX, 2025	UEI PROJ. NO: 23-24232

REVISION NO.	SECTION NO.	SHEET NO.
----	075	8



- LEGEND**
- BR — BIO-ROLL
  - TURF ESTABLISHMENT
  - INLET PROTECTION



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.

Print Name: KRISTOPHER R. CARLSON

Signed:

Date: 05-28-2025 License Number: 47082



**Ulteig**  
 1345 Hwy 10 West  
 Detroit Lakes, Minnesota 56501  
 Phone: 701.280.8500  
 Web: www.ulteig.com  
We listen. We solve.

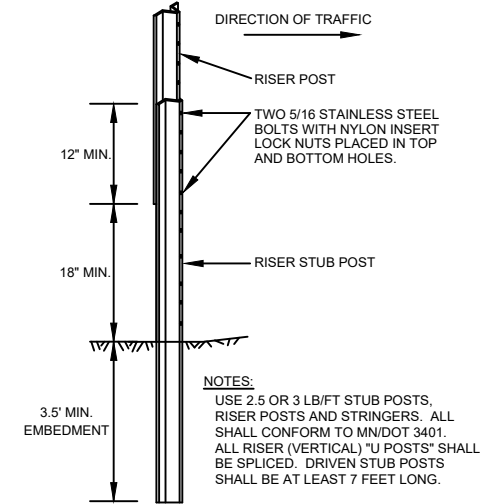
EROSION CONTROL ----
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN
DRAWN BY: M. JENSON
CHECKED BY: A. RANZ
APPROVED BY: K. CARLSON
DATE: XX, 2025      UEI PROJ. NO: 23.24232

# GENERAL TRAFFIC CONTROL NOTES

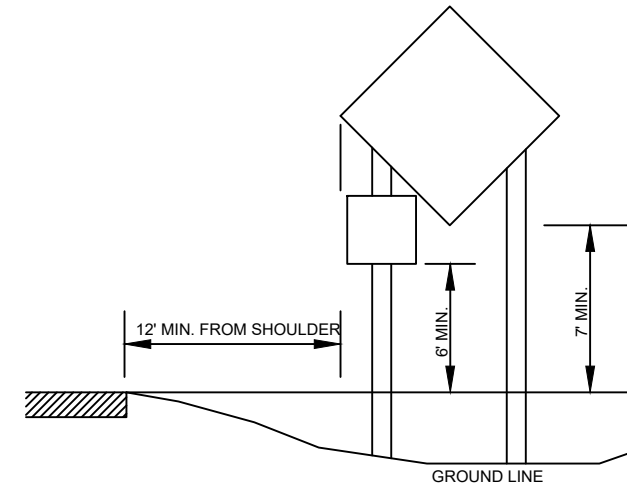
- DISTANCES SHOWN ARE APPROXIMATE. THE EXACT LOCATION OF TRAFFIC CONTROL DEVICES WILL BE DETERMINED BY THE CONTRACTOR, AND SUBJECT TO THE APPROVAL OF THE ENGINEER.
- ALL TRAFFIC CONTROL DEVICES SHOWN, UNLESS OTHERWISE INDICATED, SHALL BE FURNISHED, INSTALLED, MAINTAINED, REMOVED BY, AND REMAIN THE PROPERTY OF THE CONTRACTOR.
- UNLESS OTHERWISE INDICATED OR EXEMPTED BY THE ENGINEER, ALL SIGNS SHOWN WHICH ARE INDEPENDENTLY MOUNTED SHALL BE ATTACHED TO TWO UPRIGHT STANDS EXTENDED FROM TWO DRIVEN GROUND STANDS. ALL SIGNS SHALL CONFORM TO THE HEIGHT REQUIREMENTS AND THE LATERAL REQUIREMENTS OF THE MOST CURRENT VERSION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD).
- SIGNS MAY BE PLACED ON PORTABLE STANDS IN LOCATIONS APPROVED BY THE ENGINEER.
- ALL SIGNS SHALL CONFORM IN LETTER SIZE AND COLOR AS SPECIFIED IN THE MOST CURRENT VERSION OF THE MMUCTD.
- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST CURRENT VERSION OF THE MMUTCD AND THE MOST CURRENT VERSION OF THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.
- ALL INPLACE SIGNS REMOVED FOR CONSTRUCTION SHALL BE DELIVERED TO THE CITY OF TWIN VALLEY. IF THE CITY DOESN'T WANT THEM, THEY SHALL BE DISPOSED OF BY THE CONTRACTOR.
- ALL STOP SIGNS REMOVED DURING CONSTRUCTION SHALL BE REPLACED BY TEMPORARY STOP SIGNS IN LOCATIONS APPROVED BY THE ENGINEER. AT THE COMPLETION OF THE PROJECT, STOP SIGNS SHALL BE RE-INSTALLED IN LOCATIONS APPROVED BY THE ENGINEER.
- SIGN COVERS SHALL BE CONSTRUCTED OF ALUMINUM PANELS INSTALLED WITH NYLON WASHERS. THEY SHALL CAUSE NO DAMAGE TO THE SIGN PANELS THEY COVER.
- ALL TRAFFIC CONTROL SIGNS SHOULD BE KEPT IN PROPER POSITION, CLEAN AND LEGIBLE AT ALL TIMES. DAMAGED SIGNS SHOULD BE REPLACED IN A TIMELY MATTER. MAINTENANCE OF TRAFFIC CONTROL SIGNS IS SUBJECT TO INSPECTION BY THE ENGINEER AT ALL TIMES. ANY CORRECTIONS REQUESTED BY THE ENGINEER WILL BE DONE WITHOUT UNDUE DELAY.
- ADDITIONAL SIGNAGE AND/OR TEMPORARY CONTROL DEVICES MAY BE REQUIRED DEPENDING ON CONTRACTOR CONSTRUCTION METHODS AND TECHNIQUES. NO ADDITIONAL COMPENSATION WILL BE MADE FOR THESE DEVICES.
- THE CONTRACTOR SHALL MAINTAIN REASONABLE ACCESS TO ALL PROPERTIES ADJACENT TO CONSTRUCTION ACTIVITIES WHENEVER POSSIBLE.
- TYPE III BARRICADES FOR STREET CLOSURE SHALL BE SUPPLIED BY THE CONTRACTOR AS NECESSARY. THE BARRICADES SHALL BE MOVED TO CLOSE OFF ONLY THE AREAS OF ON GOING CONSTRUCTION.
- ROAD WORK AHEAD SIGNS FOR STREET CLOSURE SHALL BE SUPPLIED BY THE CONTRACTOR AS NECESSARY. THE SIGNS SHALL BE MOVED AND PLACED AHEAD OF AREAS OF ON-GOING CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO STAND PARKING RESTRICTIONS.
- THE CONTRACTOR SHALL MAINTAIN GOOD HOUSE KEEPING PRACTICE AT ALL TIMES. REMOVAL ITEMS SHALL BE REMOVED FROM SITE EACH NIGHT. AT THE END OF EACH DAY THE CONTRACTOR SHALL GRADE THE SITE AND PROVIDE DRIVEWAY ACCESS TO ALL RESIDENCE.
- PRIOR TO ANY CONSTRUCTION ALL IN-PLACE SIGNS THAT NEED TO BE REMOVED FOR CONSTRUCTION ARE TO BE REMOVED AND STOCKPILED AT A LOCATION DETERMINED BY THE ENGINEER. WHEN CONSTRUCTION IS COMPLETE THE CONTRACTOR SHALL REPLACE SIGNS AT THERE ORIGINAL LOCATIONS. REMOVAL AND REINSTALLATION SHALL BE INCIDENTAL.
- CONTRACTOR TO MAINTAIN ACCESS TO ALL PROPERTIES AND ADJACENT STREETS.

SIGN OR DEVICE	SIGN NO.	COLOR	SIZE
	R11-2	BLACK ON WHITE	48"X30"
	R11-4	BLACK ON WHITE	60"X30"
	TYPE III BARRICADE	WHITE & ORANGE	10'
	W20-1	BLACK ON ORANGE	36"X36"
	CHANNELIZING DRUM	WHITE ON ORANGE	—
	W20-3	BLACK ON ORANGE	36"X36"
	TYPE A	YELLOW	

## DETAIL FOR "U" POST SPLICE

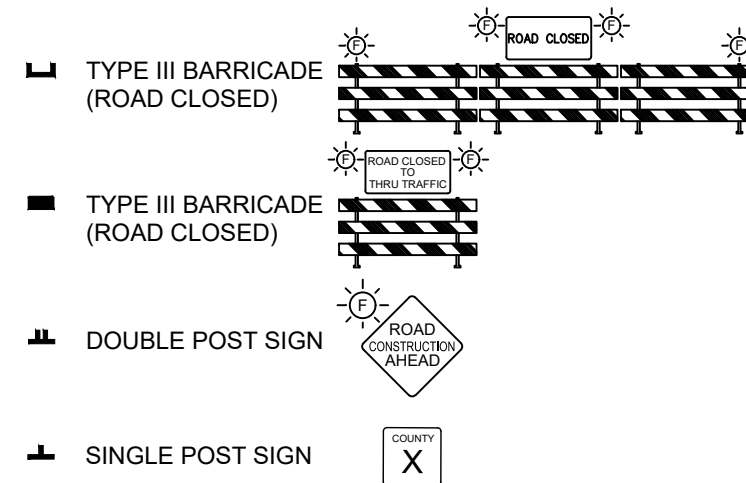


## SIGN DETAILS FOR ALL TRAFFIC CONTROL ON PROJECT



## TYPICAL INSTALLATION OF CONSTRUCTION SIGNS - RURAL DISTRICT TRAFFIC CONTROL DETAILS

## LEGEND



FLAGMAN AHEAD SIGNS FOR LANE CLOSURE SHALL BE SUPPLIED BY THE CONTRACTOR AS NECESSARY. THE SIGNS SHALL BE PLACED AHEAD OF FLAGGERS WHEN FLAGGING OPERATIONS ARE IN USE.

REVISION NO.	SECTION NO.	SHEET NO.
----	100	1

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.

Print Name: KRISTOPHER R. CARLSON

Signed:

Date: 05-28-2025 License Number: 47082



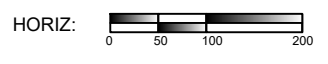
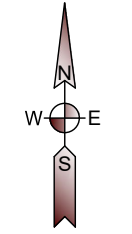
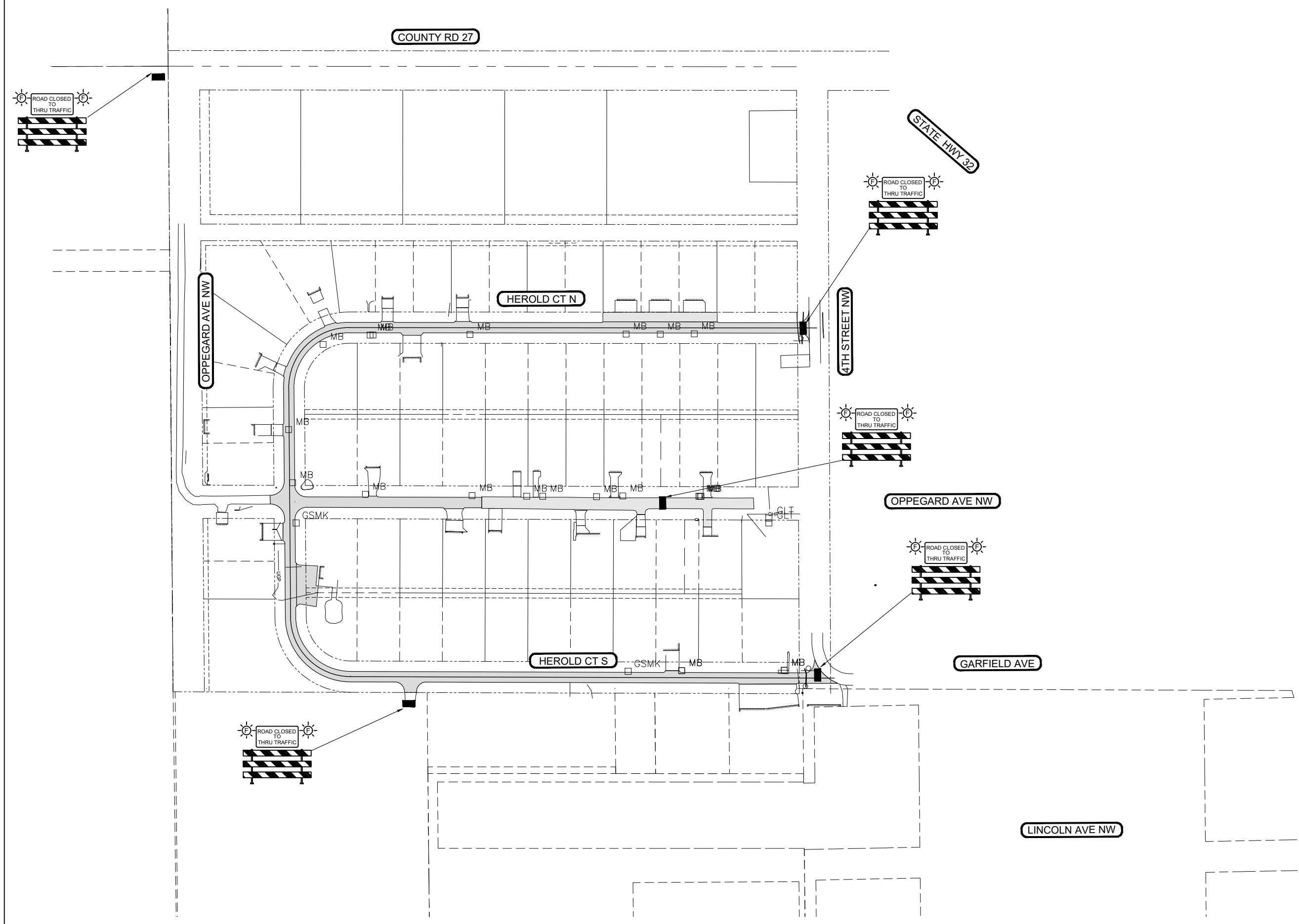
**Ulteig**  
1345 Hwy 10 West  
Detroit Lakes, Minnesota 56501  
Phone: 701.280.8500  
Web: www.ulteig.com  
We listen. We solve.

TRAFFIC CONTROL

2025 STREET IMPROVEMENTS -  
HEROLD COURT ADDITION  
TWIN VALLEY, MN

DRAWN BY: M. JENSON  
CHECKED BY: A. RANZ  
APPROVED BY: K. CARLSON  
DATE: XX, 2025 UEI PROJ. NO: 23-24232

REVISION NO.	SECTION NO.	SHEET NO.
----	100	2



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.

Print Name: KRISTOPHER R. CARLSON

Signed: *[Signature]*

Date: 05-28-2025 License Number: 47082



**Ulteig**  
 1345 Hwy 10 West  
 Detroit Lakes, Minnesota 56501  
 Phone: 701.280.8500  
 Web: www.ulteig.com  
 We listen. We solve.

TRAFFIC CONTROL ----
2025 STREET IMPROVEMENTS - HEROLD COURT ADDITION TWIN VALLEY, MN
DRAWN BY: M. JENSON
CHECKED BY: A. RANZ
APPROVED BY: K. CARLSON
DATE: XX, 2025    UEI PROJ. NO: 23.24232