

LEGEND:

- EXST'G ROW:
- TEMPORARY EASEMENT:
- PERMANENT EASEMENT:
- FENCE:
- ALIGNMENT STATIONS:
- ALIGNMENT POINTS:
- WATER LINE:
- ABANDONED WATER LINE:
- GAS LINE:
- ABANDONED GAS LINE:
- SANITARY SEWER:
- STORM SEWER:
- UNDERGROUND ELECTRICAL LINE:
- OVERHEAD ELECTRICAL LINE:
- UNDERGROUND FIBER OPTIC LINES:
- UNDERGROUND CATV LINES:
- UNDERGROUND TELEPHONE LINES:
- ABANDONED CATV LINES:
- UNDERGROUND ELECTRIC LINES:
- SIGNAL LOOP LINES:
- CREEK:

- LIGHT POLE:
- LIGHT POLE W/ PARKING METER(S):
- PARKING METER(S):
- SIGNAL POLE:
- SIGNAL CABINET:
- HAND HOLE:
- ELECTRIC BOX:
- JUNCTION BOX:
- ELECTRIC METER:
- ELECTRIC MANHOLE:
- TELE. MANHOLE (ABAND):
- WATER VALVE:
- WATER SHUT OFF VALVE:
- HYDRANT:
- VALVE PIT:
- GAS VALVE:
- SANITARY MANHOLE:
- STORM MANHOLE:
- CATCH BASIN:
- STEAM MANHOLE:
- SIGNAL CABINET:
- ELEC. BOX:
- BOLLARD:
- FLAG POLE:
- VENT PIPE:
- MAILBOX:
- TREE / SHRUB:
- ENTRANCE OR DRIVE LOCATION:
- SIGN:
- SOIL BORING:
- HORIZONTAL CONTROL POINT:
- BUILDING:

NOTE: REFER TO INDIVIDUAL PLAN SECTIONS FOR ADDITIONAL LEGEND INFORMATION.

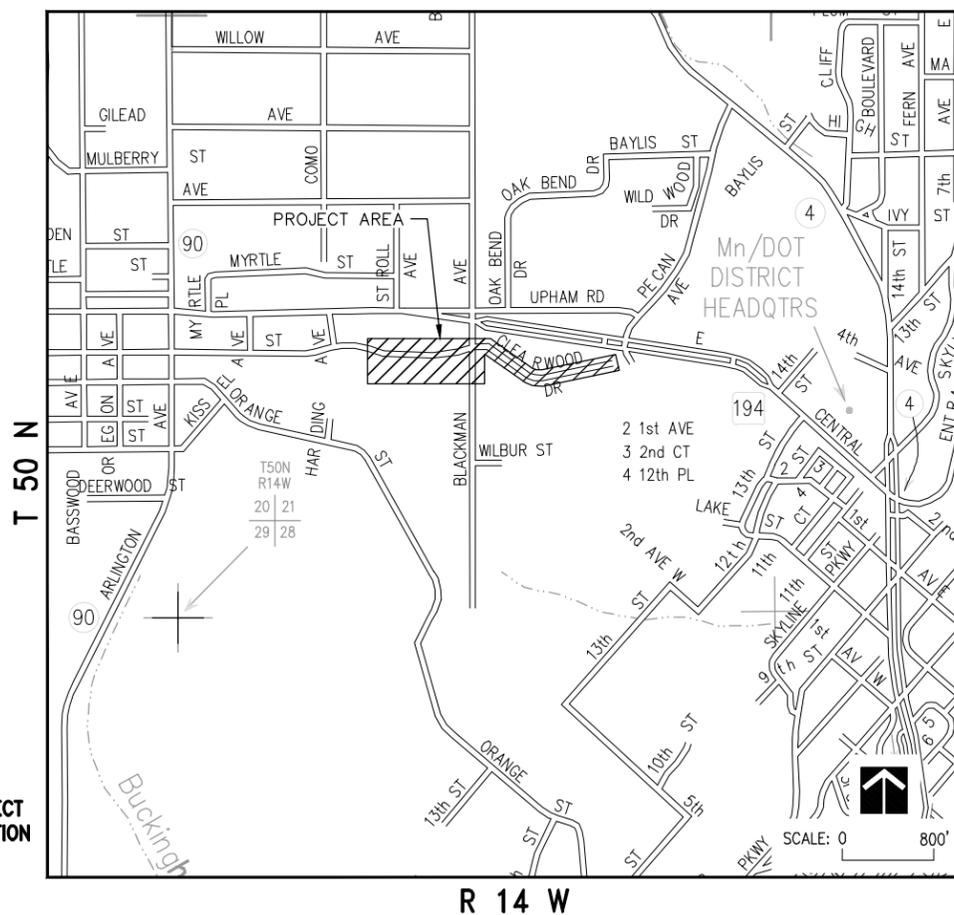
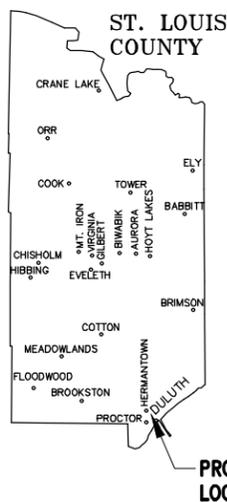
CITY OF DULUTH

DEPARTMENT OF PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

CONSTRUCTION PLAN FOR PALM STREET PERMANENT STORMWATER MANAGEMENT SYSTEM IMPROVEMENTS

PERMANENT STORMWATER TREATMENT, FLOOD MITIGATION, SMARTPOND TECHNOLOGY, STORM SEWER,
GRADING, BITUMINOUS SURFACING, CONCRETE WALK, PERIMETER FENCING, AND RETAINING WALLS

CITY PROJECT NUMBER 2208



BASIS OF DATUM

1. HORIZONTAL DATUM IS SAINT LOUIS COUNTY TRANSVERSE MERCATOR 1996 (SLCTM_96).
2. VERTICAL DATUM IS NAVD 88.

UTILITY NOTE

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 38-22, ENTITLED "STANDARD GUIDELINES FOR INVESTIGATING AN DOCUMENTING EXISTING UTILITIES".

SCALES		
PLAN	20 ft.	
PROFILE	20 ft.	5 ft.
	HORIZ.	VERT.
INDEX MAP	800 ft.	



PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY

GOVERNING SPECIFICATIONS

THE 2025 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MN MUTCD, INCLUDING THE FIELD MANUAL DATED "LATEST EDITION" AVAILABLE AT: <https://www.dot.state.mn.us/trafficeng/publ/fieldmanual/fieldmanual.pdf>

THE CITY OF DULUTH PUBLIC WORKS AND UTILITIES DEPARTMENT ENGINEERING DIVISION 2019 EDITION STANDARD CONSTRUCTION SPECIFICATION SHALL APPLY.

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL LAYOUT
3	NOTES AND STANDARD PLATES
4	STATEMENT OF ESTIMATED QUANTITIES
5-7	CONSTRUCTION CHARTS
8	TYPICAL SECTIONS
9-18	CONSTRUCTION DETAILS
19-21	EXISTING CONDITIONS & REMOVALS
22-25	CONSTRUCTION PLAN & PROFILE
26-31	SWPPP
32-33	STORM PROFILES
34-35	STORM RUN D (POND BYPASS) PLAN & PROFILE
36-41	TRAFFIC CONTROL PLAN
42-47	CROSS SECTIONS
L01-L03	LANDSCAPE PLANS
RW01-RW09	RETAINING WALL PLANS
SC01-SC04	SMART POND CONTROLS

- THIS PLAN CONTAINS 63 SHEETS -

DESIGNERS M. GOPLIN, D. CAZANACLI, P. BARDEN, C. MILLER

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

PRINT NAME: MEGAN GOPLIN

SIGNATURE: *Megan Goplin*

DATE: 1/6/2026 LIC. #: 53018

CITY APPROVALS

- Signed by: *Cindy Voigt* DATE: 1/12/2026 | 15:40:58
- APPROVED: DULUTH CITY ENGINEER
- Signed by: *Cari Pedersen* DATE: 1/12/2026 | 15:40:54
- APPROVED: DULUTH CHIEF ENGINEER OF TRANSPORTATION
- Signed by: *Howard Smith, PE* DATE: 1/12/2026 | 15:28:26
- APPROVED: DULUTH CHIEF ENGINEER OF UTILITIES