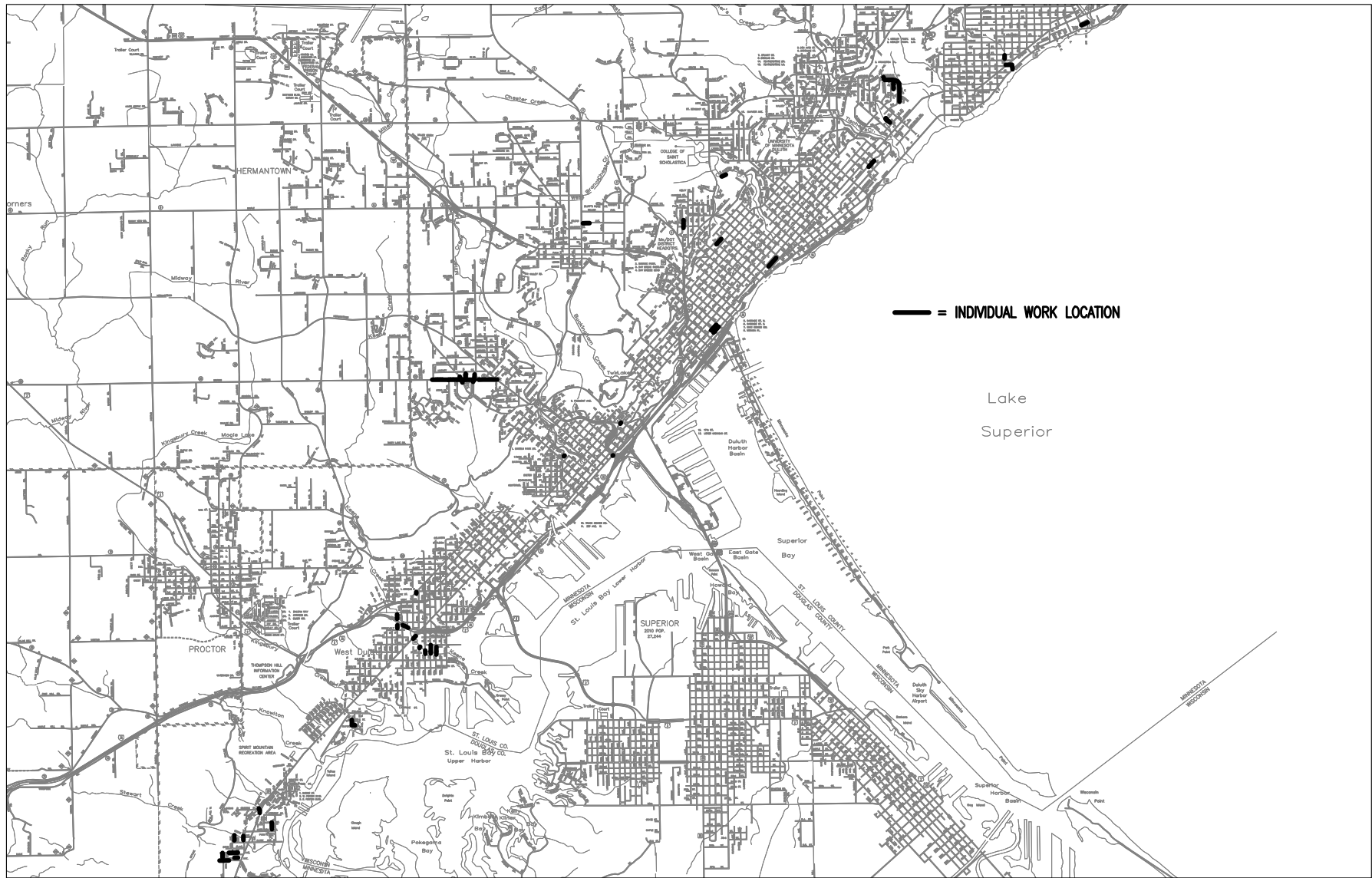


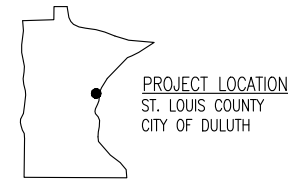
PLAN LEGEND	
RIGHT OF WAY LINE	=====
DITCH CENTERLINE	-----
FENCE LINE	=====
RETAINING WALL	=====
GRAVEL LINE	-----
GUARD RAIL LINE	-----
RAILROAD TRACK LINE	=====
ROAD CENTERLINE	-----
TREE LINE	=====
STREAM LINE	-----
WETLAND LINE	-----
EX SANITARY LINE	-----
PR SANITARY LINE	-----
AB SANITARY LINE	-----
EX FORCEMAIN LINE	-----
PR FORCEMAIN LINE	-----
AB FORCEMAIN LINE	-----
EX STORM LINE	-----
PR STORM LINE	-----
AB STORM LINE	-----
EX WATER LINE	-----
PR WATER LINE	-----
AB WATER LINE	-----
EX GAS LINE	-----
PR GAS LINE	-----
AB GAS LINE	-----
EX STEAM LINE	-----
PR STEAM LINE	-----
AB STEAM LINE	-----
UG CABLE TV LINE	-----
AB CABLE TV LINE	-----
UG ELECTRIC LINE	-----
AB ELECTRIC LINE	-----
UG FIBEROPTIC LINE	-----
AB FIBEROPTIC LINE	-----
UG TELEPHONE LINE	-----
AB TELEPHONE LINE	-----
OH ELECTRIC LINE	-----
OH TELEPHONE LINE	-----
OH CABLE TV LINE	-----

SYMBOLS	
EX SANITARY MANHOLE	(SAN)
EX SANITARY CLEANOUT	(X)
EX STORM MANHOLE	(STRM)
EX STORM CATCHBASIN	(WV)
EX. WATER MANHOLE	(W)
EX. WATER VALVE	(WV)
EX. WATER HYDRANT	(W)
EX. WATER SHUTOFF	(W&G)
EX. WATER & GAS MH	(W&G)
EX. GAS MANHOLE	(GAS)
EX. GAS VALVE	(GV)
EX. GAS SHUTOFF	(GAS)
EX. STEAM MANHOLE	(STEAM)
EX. TELEPHONE MANHOLE	(T)
EX. ELECTRIC MANHOLE	(E)
EX. POWERPOLE	(P)
EX. LIGHT POLE	(L)
EX. ELECTRIC VAULT	(V)
EX. ANCHOR	(A)
EX. ELECTRIC TRANSFORMER	(ET)
EX. STREET LIGHT	(SL)
EX. SIGNAL W/ STREET LIGHT	(S)
EX. HANDHOLE	(H.H.)
EX. HANDHOLE	(H.H.)
EX. TELEPHONE PEDESTAL	(P)
EX. WELL	(W)
BENCHMARK	(B)
FOUND CI MONUMENT	(M)
EX. SIGN	(S)
CONTROL POINT	(C)
EX DECIDUOUS TREE	(D)
EX CONIFEROUS TREE	(C)
EX. PARKING METER	(P)
EX. SOIL BORING	(SB#)



THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY 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".

WARNING:  
LOCATION OF UNDERGROUND UTILITIES TO BE VERIFIED BY CONTRACTOR. CALL BEFORE DIGGING. GOPHER STATE ONE CALL 1-800-252-1166 REQUIRED BY LAW



GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. AVAILABLE AT:  
<http://www.dot.state.mn.us/pre-letting/spec/index.html>

THE 2019 EDITION OF THE CITY OF DULUTH PUBLIC WORKS AND UTILITIES DEPARTMENT CONSTRUCTION STANDARDS AND SUPPLEMENTS OR ADDENDUMS SHALL APPLY. AVAILABLE AT:  
<http://www.duluthmn.gov/engineering/standard-construction-specifications/>

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**INDEX**

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SEQ
3-4	CHARTS
5-6	OVERVIEW MAP
7	EROSION CONTROL
8	TRAFFIC CONTROL
9-12	DETAILS
13-17	SPECIAL EXCAVATION PLAN
18-51	CIPP PLAN

THIS PLAN CONTAINS **51** SHEETS

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.

**TIM A. SANDERS**  
PROJECT ENGINEER (TYPED OR PRINTED NAME)

PROJECT ENGINEER	DATE	50401 LIC. NO.

CITY APPROVAL

APPROVED	CHIEF ENGINEER OF TRANSPORTATION	DATE

APPROVED	CHIEF ENGINEER OF UTILITIES	DATE

APPROVED	CITY ENGINEER	DATE

CITY OF DULUTH PROJECT NO. 2037

DRAWN BY: JJM

SHEET NO. 1 OF 51