

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	----
PR CABLE TV LINE	----
AB CABLE TV LINE	----
UG ELECTRIC LINE	----
PR ELECTRIC LINE	----
AB ELECTRIC LINE	----
UG FIBEROPTIC LINE	----
PR FIBEROPTIC LINE	----
AB FIBEROPTIC LINE	----
UG TELEPHONE LINE	----
PR TELEPHONE LINE	----
AB TELEPHONE LINE	----
OH ELECTRIC LINE	----
PR ELECTRIC LINE	----
AB ELECTRIC LINE	----
OH CABLE TV LINE	----
PR CABLE TV LINE	----
AB CABLE TV LINE	----

SYMBOLS	
EX SANITARY MANHOLE	(SAN)
EX SANITARY CLEANOUT	(X)
EX STORM MANHOLE	(STRM)
EX STORM CATCHBASIN	(X)
EX. WATER MANHOLE	(W)
EX. WATER VALVE	(X)
EX. WATER HYDRANT	(X)
EX. WATER SHUTOFF	(X)
EX. WATER & GAS MH	(W&G)
EX. GAS MANHOLE	(GAS)
EX. GAS VALVE	(X)
EX. GAS SHUTOFF	(X)
EX. STEAM MANHOLE	(STEAM)
EX. TELEPHONE MANHOLE	(T)
EX. ELECTRIC MANHOLE	(E)
EX. POWERPOLE	(X)
EX. LIGHT POLE	(X)
EX. ELECTRIC VAULT	(X)
EX. ANCHOR	(X)
EX. ELECTRIC TRANSFORMER	(X)
EX. STREET LIGHT	(X)
EX. SIGNAL W/ STREET LIGHT	(X)
EX. HANDHOLE	(H.H.)
EX. HANDHOLE	(H.H.)
EX. TELEPHONE PEDESTAL	(X)
EX. WELL	(X)
BENCHMARK	(X)
FOUND CI MONUMENT	(X)
EX. SIGN	(X)
CONTROL POINT	(X)
EX DECIDUOUS TREE	(X)
EX CONIFEROUS TREE	(X)
EX. PARKING METER	(X)
EX. SOIL BORING	(X)

CITY OF DULUTH

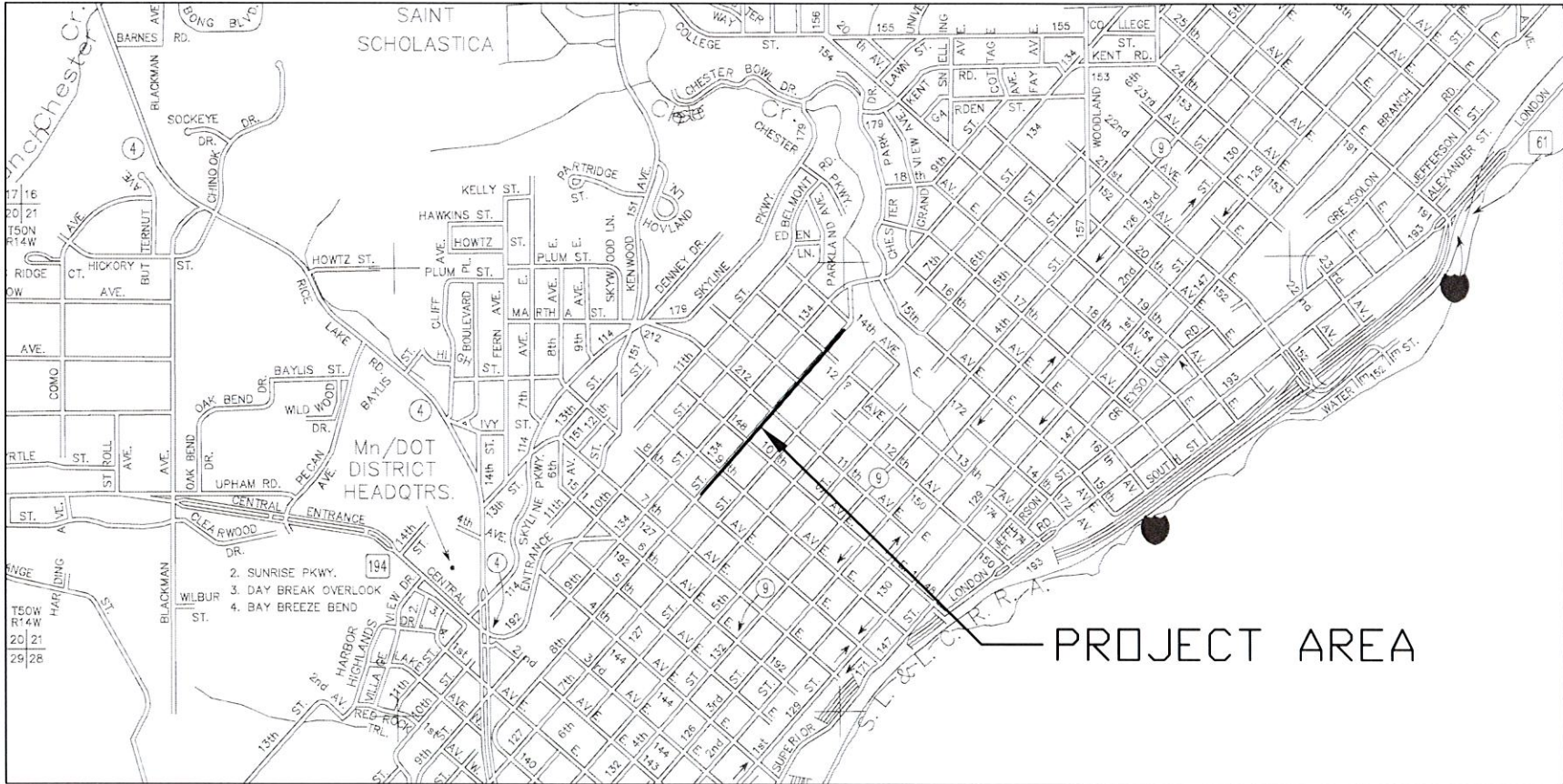
DEPARTMENT OF PUBLIC WORKS AND UTILITIES

ENGINEERING DIVISION

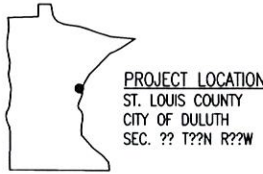
CONSTRUCTION PLANS FOR:

2022 WATER SERVICE REPLACEMENTS PHASE II

CITY PROJECT NO. 2064



PROJECT AREA



THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C/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/>

INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SEQ
3-6	CHART A
7	EROSION CONTROL REQUIREMENTS
8	TRAFFIC CONTROL REQUIREMENTS
9-15	DETAILS
16-80	PLAN PAGES

THIS PLAN CONTAINS 80 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)
Tim A. Sanders 7/13/22 50401
PROJECT ENGINEER DATE LIC. NO.

CITY APPROVAL

DocuSigned by:
Cari Pedersen 7/14/2022
5C8DE26E53834EA... CHIEF ENGINEER OF TRANSPORTATION DATE

DocuSigned by:
Eric R Shaffer 7/14/2022
48F5F0A6F03C4AA... CHIEF ENGINEER OF UTILITIES DATE

APPROVED *[Signature]* CITY ENGINEER DATE 7-14-22

CITY OF DULUTH PROJECT NO. 2064

DRAWN BY: JJM SHEET NO. 1 OF 80