

CITY OF DULUTH

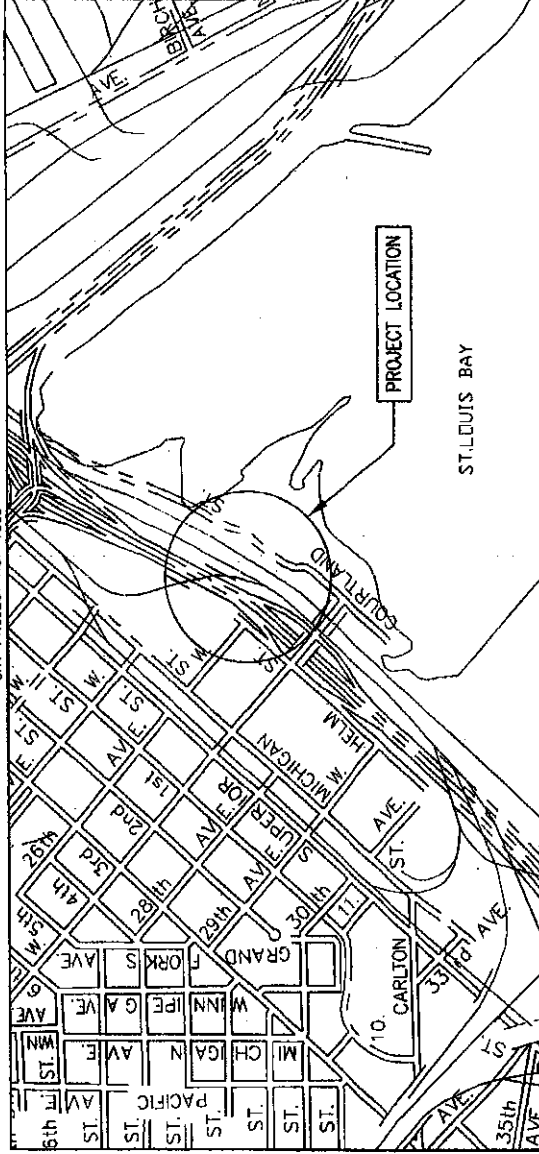
DEPARTMENT OF PUBLIC WORKS AND UTILITIES

ENGINEERING DIVISION

2015 GAS AND WATER MAIN REPLACEMENT AT 26TH AVENUE WEST
CONSTRUCTION PLANS FOR:

632 FT OF 8" H.D.P.E. WATER MAIN
380 FT OF M.D.P.E. GAS MAIN

CITY PROJECT NO. 1309



WARNING:
LOCATION OF UNDERGROUND UTILITIES TO BE VERIFIED BY
CONTRACTOR. CALL BEFORE DIGGING. COMPARE STATE ONE
CALL 1-800-232-1155 REQUIRED BY LAW.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY LEVEL. 0.
THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF
C/ASCE 38-02, UNTITLED "STANDARD CONVENTIONS FOR THE COLLECTION
AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".

PLAN LEGEND

RIGHT OF WAY LINE	---
DITCH CENTERLINE	---
RETAINING WALL	---
RAILROAD TRACK LINE	---
RAILROAD CENTERLINE	---
TREE LINE	---
STREAM LINE	---
WETLAND LINE	---
PR SANITARY LINE	---
AS SANITARY LINE	---
PR FORCEMAIN LINE	---
AS FORCEMAIN LINE	---
EX STORM LINE	---
PR STORM LINE	---
AS STORM LINE	---
EX WATER LINE	---
PR WATER LINE	---
AS WATER LINE	---
EX GAS LINE	---
PR GAS LINE	---
AS GAS LINE	---
EX STEAM LINE	---
PR STEAM LINE	---
AS STEAM LINE	---
EX CABLE TV LINE	---
PR CABLE TV LINE	---
AS CABLE TV LINE	---
EX ELECTRIC LINE	---
PR ELECTRIC LINE	---
AS ELECTRIC LINE	---
EX FIBEROPTIC LINE	---
PR FIBEROPTIC LINE	---
AS FIBEROPTIC LINE	---
EX TELEPHONE LINE	---
PR TELEPHONE LINE	---
AS TELEPHONE LINE	---
EX CABLE TV LINE	---
PR CABLE TV LINE	---
AS CABLE TV LINE	---

SYMBOLS

EX SANITARY MANHOLE	⊙
EX SANITARY CLEANOUT	⊙
EX STORM CATCHBASIN	⊙
EX WATER MANHOLE	⊙
EX WATER VALVE	⊙
EX WATER HYDROMAT	⊙
EX WATER SHUTOFF	⊙
EX WATER & GAS MH	⊙
EX GAS MANHOLE	⊙
EX GAS VALVE	⊙
EX GAS SHUTOFF	⊙
EX STEAM MANHOLE	⊙
EX TELEPHONE MANHOLE	⊙
EX ELECTRIC MANHOLE	⊙
EX POWERPOLE	⊙
EX ELECTRIC VAULT	⊙
EX ANCHOR	⊙
EX ELECTRIC TRANSFORMER	⊙
EX STREET LIGHT	⊙
EX SWAMP BY STREET LIGHT	⊙
EX MANHOLE	⊙
EX TELEPHONE	⊙
EX TELEPHONE PEDSTAL	⊙
EX WELL	⊙
EX MONUMENT	⊙
EX CONTROL POINT	⊙
EX DECADOUS TREE	⊙
EX CONIFEROUS TREE	⊙
EX PARKING METER	⊙
EX SOIL BORING	⊙

GOVERNING SPECIFICATIONS

THE 2014 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION
"STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE 2014 EDITION OF THE
"MATERIALS LAB SUPPLEMENTAL SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.
AVAILABLE AT: <http://www.dot.state.mn.us/pre-letting/spec/index.html>

THE 2380 PLANT MIXED ASPHALT PAVEMENT SPECIFICATION DATED 01/23/2013
SHALL APPLY.
AVAILABLE AT: <http://www.dot.state.mn.us/materials/bituminous.html>

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MN MUTCD,
INCLUDING THE FIELD MANUAL, DATED JANUARY 2014.
AVAILABLE AT: <http://www.dot.state.mn.us/trafficeng/fmh/index.html>

THE 2015 EDITION OF THE CITY OF DULUTH PUBLIC WORKS AND UTILITIES
DEPARTMENT STANDARD CONSTRUCTION SPECIFICATIONS AND SUPPLEMENTS OR
ADDENDUMS SHALL APPLY.
AVAILABLE AT: <http://www.duluthmn.gov/engineering/standard-construction-specifications/>

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3-4	DETAIL SHEETS
5	EROSION CONTROL PLAN
6-7	TRAFFIC CONTROL PLAN
8	CONNECTION DETAIL
9-10	WATER PLAN AND PROFILE
11	GAS PLAN AND PROFILE

THIS PLAN CONTAINS 11 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.

PROJECT ENGINEER (TYPED OR PRINTED NAME)
HOMER D. SMITH, P.E.
PROJECT ENGINEER
3-25-2015
DATE
48075
LIC. NO.

CITY APPROVAL
APPROVED
3/25/15
DATE
APPROVED
3/25/15
DATE
APPROVED
3/25/15
DATE

DRAWN BY: JRL
SHEET NO. 1 OF 11