

last saved by joettler 2026.04.07 3:38 PM

i:\pww\engineer\projects\2000-2499\2257_n_5th_ave_w_6th_st_downdrain\drawings\base\2257 - title 5th ave w.dwg

PLAN LEGEND

RIGHT OF WAY LINE	----
DITCH CENTERLINE	----
FENCE LINE	---X---
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	---AB-SAN---
EX FORCEMAIN LINE	---FM>>---
PR FORCEMAIN LINE	---FM>>---
AB FORCEMAIN LINE	---AB-FM---
EX STORM LINE	--->>---
PR STORM LINE	--->>---
AB STORM LINE	---AB-STRM---
EX WATER LINE	---W---
PR WATER LINE	---W---
AB WATER LINE	---AB-W---
EX GAS LINE	---GAS---
PR GAS LINE	---3" PE GAS---
AB GAS LINE	---AB-GAS---
EX STEAM LINE	---STEAM---
AB STEAM LINE	---AB-STEAM---
UG CABLE TV LINE	---UGTV---
AB CABLE TV LINE	---AB-CATV---
UG ELECTRIC LINE	---UGE---
AB ELECTRIC LINE	---AB-ELEC---
UG FIBEROPTIC LINE	---UGFO---
AB FIBEROPTIC LINE	---AB-FO---
UG TELEPHONE LINE	---UGT---
AB TELEPHONE LINE	---AB-TELE---
OH UTILITIES	---OH---

SYMBOLS

EX SANITARY MANHOLE	(SAN)
EX SANITARY CLEANOUT	(X)
EX STORM MANHOLE	(STRM)
EX STORM CATCHBASIN	(W)
EX. WATER MANHOLE	(W)
EX. WATER VALVE	(V)
EX. WATER HYDRANT	(H)
EX. WATER SHUTOFF	(S)
EX. WATER & GAS MH	(W&G)
EX. GAS MANHOLE	(GAS)
EX. GAS VALVE	(V)
EX. GAS SHUTOFF	(S)
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	(T)
EX. STREET LIGHT	(S)
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	(T)
EX CONIFEROUS TREE	(T)
EX. PARKING METER	(M)
EX. SOIL BORING	(S)

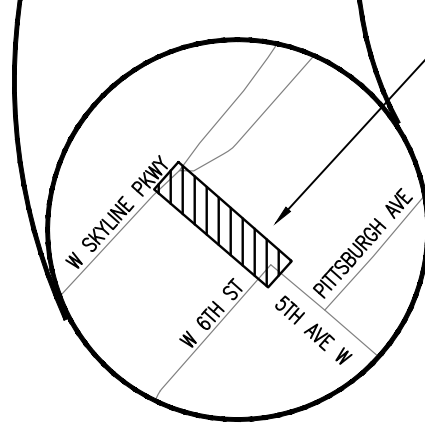
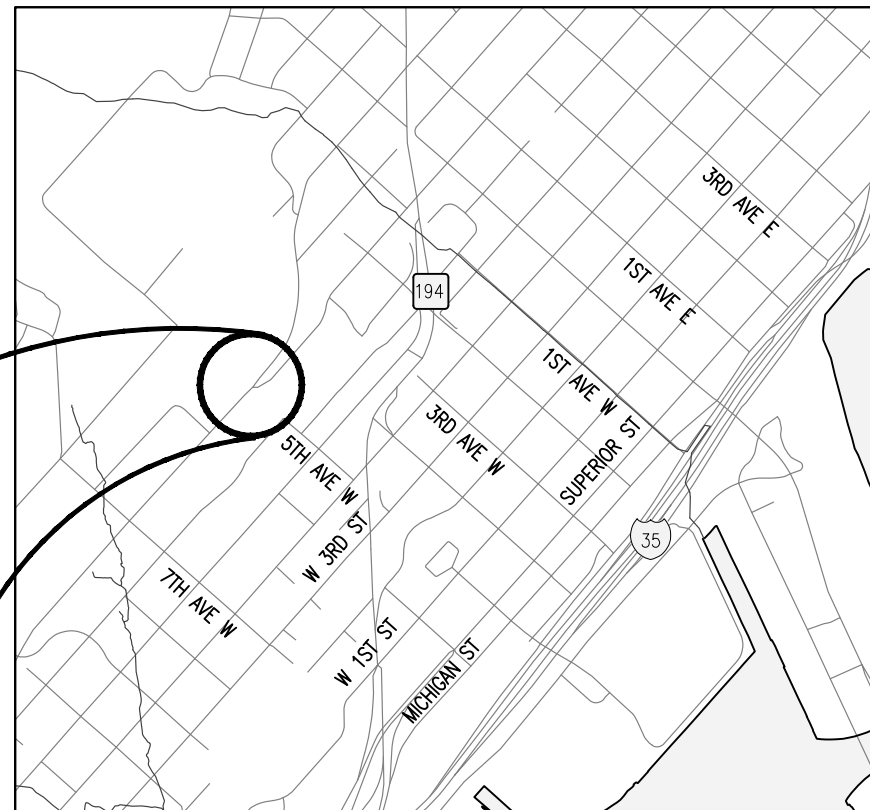
CITY OF DULUTH

DEPARTMENT OF PUBLIC WORKS AND UTILITIES ENGINEERING DIVISION

CONSTRUCTION PLANS FOR:

5TH AVE W DOWN DRAIN

CITY PROJECT NO. 2257



PROJECT AREA

BASIS OF DATUM

- HORIZONTAL DATUM IS SAINT LOUIS COUNTY TRANSVERSE MERCATOR 1996 (SLCTM_96)
- VERTICAL DATUM IS NAVD 88 USING VERTICAL CONTROL MONUMENT "XXXXXX" (EL=XXX.XXX).

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".

PLAN REVISIONS		
DATE	SHEET NO.	APPROVER



CITY OF DULUTH PROJECT NO. 2257

GOVERNING SPECIFICATIONS

THE 2025 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 2026 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/>

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST MNUCD, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

INDEX

SHEET NO	DESCRIPTION
1	TITLE
2	STATEMENT OF ESTIMATED QUANTITIES
3-4	TABULATIONS
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9	CONSTRUCTION DETAILS
10-11	PLAN & PROFILE
12	TRAFFIC CONTROL
13-15	SWPP NARRATIVE
14-15	TRAFFIC CONTROL
16	EROSION CONTROL PLAN

---THIS PLAN CONTAINS 16 SHEETS---

DESIGN TEAM: J. ISACKSON

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.

NATHAN BRUNO
PROJECT ENGINEER (TYPED OR PRINTED NAME)

Nathan Bruno 4/8/2026 46584
PROJECT ENGINEER DATE LIC. NO.

CITY APPROVAL

DocuSigned by:
Duncan Schwensohn 4/8/2026 | 19:15:53 CD

APPROVED 95B4AF... CHIEF ENGINEER OF TRANSPORTATION DATE

DocuSigned by:
Howard Spitzer, PE 4/8/2026 | 17:45:12 CD

APPROVED 884E7... CHIEF ENGINEER OF UTILITIES DATE

[Signature] FOR CINDY VOIGT 4/15/26
APPROVED CITY ENGINEER DATE

DRAWN BY: J. ISACKSON SHEET NO. 1 OF 16