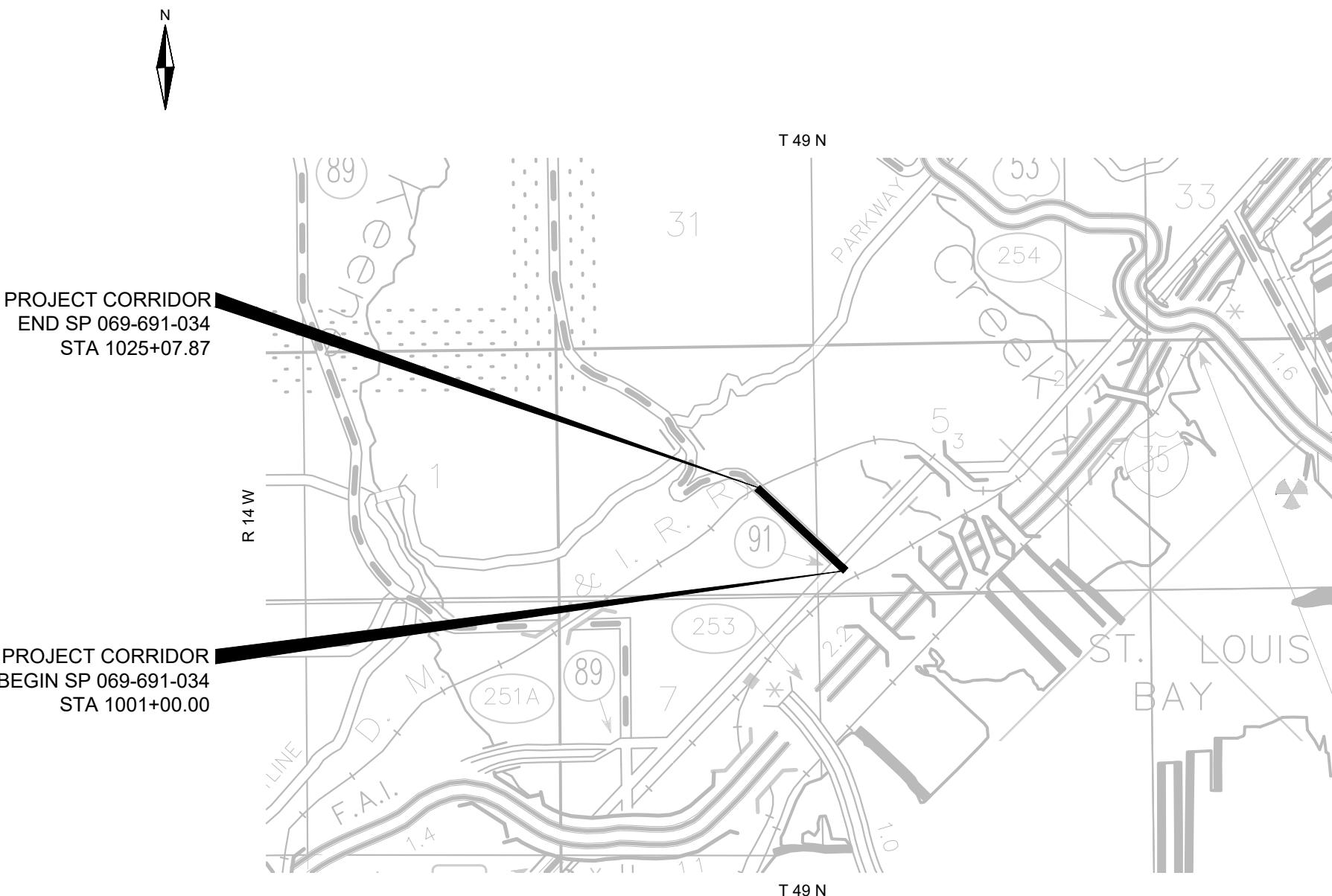


# MINNESOTA DEPARTMENT OF TRANSPORTATION

## ST. LOUIS COUNTY

CONSTRUCTION PLANS FOR GRADING, AGGREGATE BASE, BITUMINOUS SURFACING, CONCRETE WALK, ADA IMPROVEMENTS, CONCRETE TRAIL, RETAINING WALLS, UTILITY IMPROVEMENTS, LIGHTING, TRAFFIC SIGNALS, SIGNING, AND PAVEMENT MARKING LOCATED ON CSAH 91 (40TH AVE) FROM GRAND AVENUE TO RAILROAD CROSSING



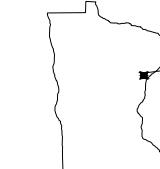
FILE LOCATION: C:\P\W\WORKING\PROJECT\SEAL\11071CD230122\_TS\DWG  
PLOTTED BY: RYAN ROTH ON June 3, 2025 AT 5:18:17 PM

### UTILITY LEGEND

RIGHT OF WAY - INPLACE	-----
SANITARY	→→→→→
STORM	→→→→→
WATER	- - -
COMMUNICATIONS - CENTURYLINK	FO-FO
COMMUNICATIONS - CHARTERSPECTRUM	FO-FO
GAS - CITY OF DULUTH	G-G
OVERHEAD POWER - MINNESOTA POWER	OHE-OHE
UNDERGROUND POWER - MINNESOTA POWER	E-E

### DESIGN DESIGNATION (CSAH 91)

DESIGN ESALS	=	xxx	DESIGN SPEED	30	MPH
ADT (CURRENT YEAR)	=	7000	BASED ON	STOPPING	SIGHT DISTANCE
ADT (FUTURE YEAR)	=	xxx	HEIGHT OF EYE	3.5'	HEIGHT OF OBJECT
DHV (DESIGN HR. VOL.)	=	xxx	DESIGN SPEED NOT ACHIEVED AT:	N/A	
D (DIRECTIONAL DISTR.)	=	50/50	STA.	N/A	TO STA. N/A MPH
T (HEAVY COMMERCIAL)	=	xxx	STA.	N/A	TO STA. N/A MPH



PROJECT LOCATION  
COUNTY: ST. LOUIS  
CITY: DULUTH

MN - SP 069-691-034

### 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 AND BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MNMUTCO), INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL DEVICES.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY 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".

### INDEX OF SHEETS

SHEET NO.	SHEET DESCRIPTION
1	TITLE SHEET
2	GENERAL LAYOUT
3	CONSTRUCTION & SOILS NOTES
4-5	STATEMENT OF ESTIMATED QUANTITIES
6-8	TABULATIONS
9-11	TYPICAL SECTIONS
12-28	STANDARD PLANS AND DETAILS
29	ALIGNMENT PLAN
30-33	EXISTING UTILITIES PLAN
34-37	EXISTING TOPOGRAPHY AND REMOVALS PLAN
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46-52	INTERSECTION DETAILS
53-63	DRAINAGE PLAN AND PROFILE
64-65	DRAINAGE DETAILS
66-67	SWPPP
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74-77	TURF ESTABLISHMENT AND EROSION CONTROL
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84-86	SIGNING PLAN
87-89	PAVEMENT MARKING PLAN

### THIS PLAN CONTAINS 87 SHEETS

PRINT NAME: %%% LICENSE #: %%%  
I HEREBY CERTIFY THAT THIS SHEET 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.

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

### AGENCY APPROVAL SIGNATURES:

ST. LOUIS COUNTY ENGINEER DATE: \_\_\_\_\_

CITY OF DULUTH ENGINEER DATE: \_\_\_\_\_

### REVIEWED FOR COMPLIANCE WITH STATE AID RULES/POLICY.

DISTRICT STATE AID ENGINEER DATE: \_\_\_\_\_

### APPROVED FOR STATE AID FUNDING.

STATE AID ENGINEER DATE: \_\_\_\_\_

SP 069-691-034

SHEET NO. 1 OF 87 SHEETS