

K:\Projects\2 - 40 CSA\HCSAH 9\SAP 069-609-040\400 Drawings\10 Base\Acad Drawings\Title sheet SAP.dwg, 11/9/2015 7:48:05 AM

PLAN SYMBOLS

COUNTY LINE	---
TOWNSHIP OR RANGE LINE	----
SECTION LINE	-----
QUARTER LINE	-----
SIXTEENTH LINE	-----
EXISTING R/W	=====
NEW R/W	=====
TEMP EASE	-----
RAILROAD R/W	=====
UNSURFACED RD. OR SHLD.	-----
EDGE OF LAKE	-----
SWAMP BOUNDARY	-----
MISCELLANEOUS BOUNDARY	-----
CORPORATE OR CITY LIMITS	=====
ALIGNMENT STATIONS	-----
ALIGNMENT POINTS	-----
PROPERTY LINES	-----
VACATED PLATTED PROPERTY	-----
RIVER OR CREEK	-----
DRAINAGE DITCH	-----
BRIDGE	-----
RECREATIONAL TRAIL	-----
RAILROAD (SINGLE TRACK)	-----
RR CROSSING PAVEMENT MARKING	-----
RR CROSSING SIGNAL AND GATE	-----
RR CROSSBUCK SIGN	-----
RR CROSSBUCK SIGN W/LIGHTS	-----
RR SWITCH	-----
BARBED WIRE FENCE	-----
CHAIN LINK FENCE	-----
WOVEN WIRE, OR WOVEN AND BARB	-----
WOOD FENCE	-----
BILLBOARD	-----
GUARD POST	-----
RETAINING WALL	-----
GUARDRAIL (CABLE)	-----
GUARDRAIL (PLATE BEAM)	-----
DRAIN TILE	-----
FLUME	-----
CULVERT APRON	-----
CULVERT	-----
WOODS OR BRUSH, NURSERY	-----
DECIDUOUS TREES	-----
CONIFER (EVERGREEN) TREES	-----
HEDGE	-----
BUSH OR SHRUB	-----
STUMP	-----
SWAMP OR MARSH	-----
CONCRETE OR STONE MONUMENT	-----
IRON PIPE	-----
CAST IRON OR CAPPED PIPE MONUMENT	-----
HUB	-----
NAIL OR SPIKE OR PK NAIL	-----
IRON PIN OR REBAR	-----
IRON PIN WITH BRASS DISK	-----
VERTICAL CONTROL	-----
HORIZONTAL CONTROL	-----
POWER POLE	-----
LIGHT POLE	-----
LIGHT AND TELEPHONE POLE	-----
LIGHT, TELEPHONE AND POWER POLE	-----
GUY POLE	-----
POLE ANCHOR	-----
TELEPHONE POLE	-----
TELEPHONE AND POWER POLE	-----
UNDERGROUND CABLE PEDESTAL	-----
TELEPHONE OR POWER MANHOLE (VAULT)	-----
ELECTRIC CABLE IN CONDUIT	-----
TELEPHONE CABLE IN CONDUIT	-----
BURIED ELECTRIC CABLE	-----
BURIED TELEPHONE CABLE	-----
GAS LINE	-----
GAS METER	-----
WATER LINE	-----
VALVE	-----
FIRE HYDRANT	-----
WATER MANHOLE	-----
WELL	-----
LAWN SPRINKLER HEAD	-----
STORM SEWER MANHOLE	-----
SEPTIC TANK	-----
SANITARY SEWER MANHOLE	-----
CATCH BASIN	-----
FORCE MAIN LIFT STA.	-----
SEWER LINE	-----
BARRICADE	-----
SIGN	-----
TRAFFIC SIGNAL W/MAST ARM	-----
PED. PUSH BUTTON STA.	-----
HAND HOLE	-----
YARD LIGHT	-----
ENTRANCE	-----
BUILDING	-----
SATELLITE DISH	-----
STEEL TOWER	-----
FLAG POLE	-----

MINNESOTA DEPARTMENT OF TRANSPORTATION
SAINT LOUIS COUNTY

CONSTRUCTION PLAN FOR: GRADING, STORM SEWER, WATERMAIN, SANITARY SEWER, AGGREGATE BASE,
CURB AND GUTTER, PLANT MIXED BITUMINOUS SURFACE, SIDEWALKS,
RETAINING WALLS.

LOCATED ON C.S.A.H. 9 (FOURTH STREET) & (WALLACE AVE.)

BETWEEN 6TH AVENUE EAST AND ARROWHEAD ROAD

FROM A POINT APPROX. 1542' SOUTH OF THE TO A POINT 463' WEST OF THE WEST 1/16 CORNER
NORTHWEST CORNER OF SEC. 22, T50N, R16W. OF SECTION 11, T50N, R14W.

STATE PROJ. NO. 069-609-040

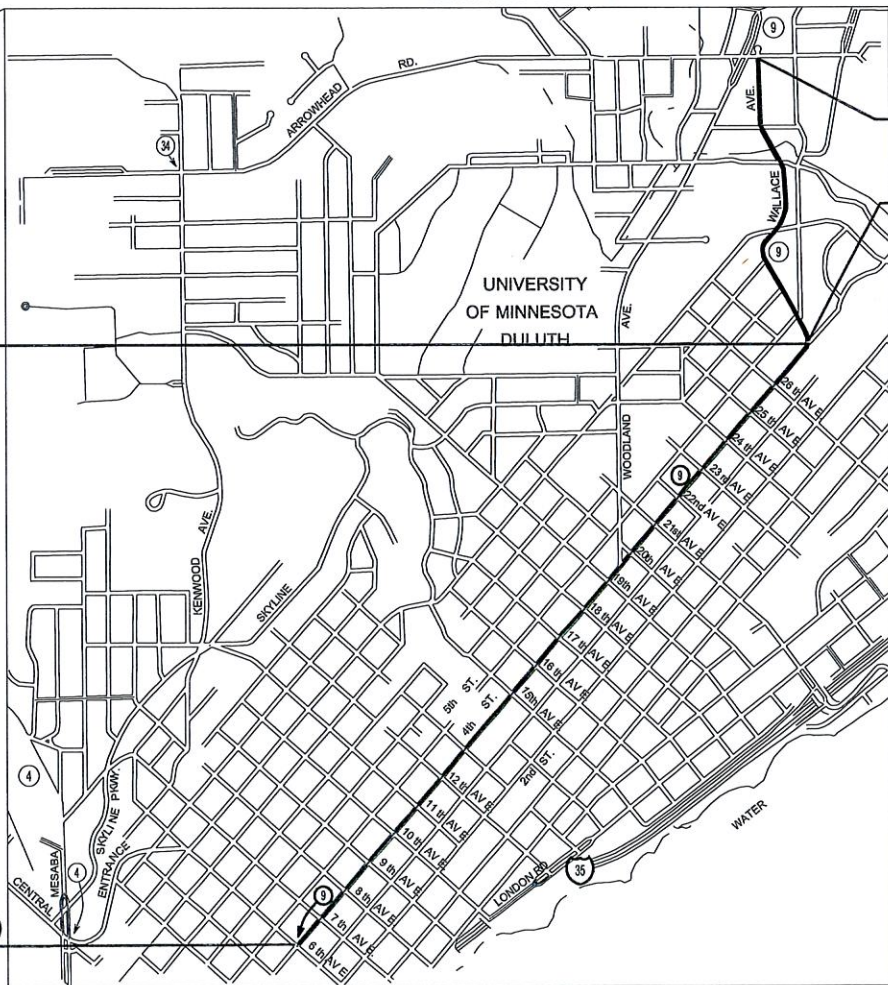
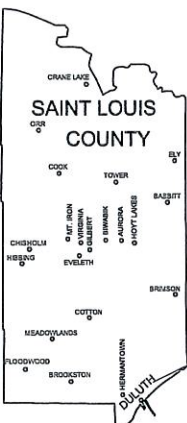
Urban Reconstruction

GROSS LENGTH	11125.05	FEET	2.107	MILES
BRIDGES-LENGTH	0.00	FEET	0.000	MILES
EXCEPTIONS-LENGTH	0.00	FEET	0.000	MILES
NET LENGTH	11125.05	FEET	2.107	MILES

Urban Reconditioning

GROSS LENGTH	3859.00	FEET	0.731	MILES
BRIDGES-LENGTH	0.00	FEET	0.000	MILES
EXCEPTIONS-LENGTH	0.00	FEET	0.000	MILES
NET LENGTH	3859.00	FEET	0.731	MILES

R14W
GENERAL LAYOUT



END: S.P. 069-609-040
STA. 111+25.05

END: S.P. 069-609-040
STA. 538+59.00

BEGIN: S.P. 069-609-040
STA. 500+00.00

BEGIN: S.P. 069-609-040
STA. 10+00.00

SCALES

PLAN	20 ft.
PROFILE	50 ft. 10 ft. HORIZ. VERT.
INDEX MAP	25 mi.
GENERAL LAYOUT	0.50 mi.

PLAN REVISIONS

DATE	SHEET NO.	APPROVED BY

PREVIOUS PLANS

1985	S.A.P. 69-609-14	C.P. 98-857

MINN. PROJ. NO.

GOVERNING SPECIFICATIONS

THE 2016 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>

INDEX OF SHEETS

1	TITLE SHEET
2-?	ESTIMATED QUANTITIES
?	STANDARD PLATES, BASIS FOR ESTIMATED QUANTITIES
?	EARTHWORK SUMMARY
?-?	TYPICAL SECTIONS
?-?	UTILITY REARRANGEMENT SCHEDULE
?-?	CONSTRUCTION DETAILS
?-?	QUANTITY TABULATIONS
?-?	TRAFFIC CONTROL
?-?	STORM SEWER PLAN AND DETAILS
?-?	PLAN SHEETS
?-?	PROFILE SHEETS
?-?	EROSION CONTROL PLAN AND DETAILS (SWPPP)
?-?	CROSS SECTIONS
?-?	STRIPING, SIGNING AND GUARDRAIL PLAN
?-?	RETAINING WALL PLANS
?-?	WATER & SANITARY UTILITY IMPROVEMENTS
-	THIS PLAN CONTAINS ??? SHEETS -

DESIGN DESIGNATION - 8820.9941 (URBAN)

R VALUE	10	$\Sigma N1820$	=	1,199,608
ADT (Current Year)	2016	=	8,300	
ADT (Future Year)	2036	=	9,900	
D (Directional Distr.)		=	50/50%	
T (Heavy Commercial)		=	3.6%	
Proj. Soil Factor		=	130 (R=10)	

Design Loading	=	10 TON
Traffic Lanes	=	11'
Parking Width	=	7'
Bike Lanes	=	5'
Functional Class	=	Major Collector
Design Speed	=	30 mph

Based on STOPPING Sight Distance
Height Of Eye 3.5' Height of object 2.0'

DESIGN DESIGNATION - 8820.9946 (URBAN)
Urban Reconditioning sta. 500+00.00 to sta. 538+59.00

DESIGN SQUAD: JEFF ISACKSON, DARRELL MILLER, MARK ROMANO

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.

PRINT NAME: STEPHEN E. KRASAWAY

SIGNATURE: _____

DATE: _____ LIC. NO.: 45397

APPROVED: _____ DATE: _____
ST. LOUIS COUNTY HIGHWAY ENGINEER

APPROVED: _____ DATE: _____
CITY OF DULUTH

DISTRICT STATE AID ENGINEER: REVIEWED FOR
COMPLIANCE WITH STATE-AID RULES/POLICY

STATE AID ENGINEER: APPROVED FOR FEDERAL AND STATE AID FUNDING
DATE: _____

STATE PRO. NO. 069-609-040

CP 0009-147349 TST

SHEET NO. 1 OF SHEETS