

PLAN SYMBOLS

SECTION SUBDIVISION LINE	=====
EXISTING R/W	-----
NEW R/W	-----
TEMP EASE	-----
RAILROAD R/W	-----
ROAD SHOULDER	-----
EDGE OF LAKE	-----
SWAMP BOUNDARY	-----
MISCELLANEOUS BOUNDARY	-----
CORPORATE OR CITY LIMITS	-----
PROPERTY LINE	-----
RECREATIONAL TRAIL	-----
ROAD ALIGNMENT	-----
ALIGNMENT POINTS	-----
RIVER OR CREEK	-----
DRAINAGE DITCH	-----
BRIDGE	-----
RAILROAD (SINGLE TRACK)	-----
RR CROSSING PAVEMENT MARKING	-----
RR CROSSING GATE	-----
RR CROSSBUCK SIGN	-----
RR CROSSBUCK SIGN W/LIGHTS	-----
BARBED WIRE FENCE	-----
CHAIN LINK FENCE	-----
WOVEN WIRE COMBINATION WOVEN AND BARB	-----
WOOD FENCE	-----
BILLBOARD	-----
RETAINING WALL	-----
GUARDRAIL (CABLE)	-----
GUARDRAIL (PLATE BEAM)	-----
DRAIN TILE	-----
CULVERT	-----
CULVERT WITH APRONS	-----
TREELINE OR BRUSHLINE	-----
DECIDUOUS TREES	-----
CONIFER (EVERGREEN) TREES	-----
HEDGE	-----
BUSH OR SHRUB	-----
SWAMP OR MARSH	-----
MONUMENT (C/ACT,ACP,BGP,...)	-----
CONCRETE OR STONE MONUMENT	-----
IRON PIPE, PIN OR REBAR	-----
IRON PIN WITH BRASS DISK	-----
NAIL, PK NAIL, SPIKE, SFR, T-BAR, ...	-----
VERTICAL CONTROL	-----
HORIZONTAL CONTROL	-----
POWER POLE	-----
LIGHT AND TELEPHONE POLE	-----
LIGHT TELEPHONE AND POWER POLE	-----
GUY POLE	-----
POLE ANCHOR	-----
TELEPHONE POLE	-----
TELEPHONE AND POWER POLE	-----
UNDERGROUND UTILITY PEDESTAL	-----
TELEPHONE MANHOLE (VAULT)	-----
ELECTRIC CABLE IN CONDUIT	-----
TELEPHONE CABLE IN CONDUIT	-----
BURIED ELECTRIC CABLE	-----
BURIED TELEPHONE CABLE	-----
GAS LINE	-----
WATER LINE	-----
VALVE	-----
FIRE HYDRANT	-----
WATER MANHOLE	-----
WELL	-----
LAWN SPRINKLER HEAD	-----
MANHOLE	-----
CATCH BASIN	-----
SEPTIC TANK	-----
FORCE MAIN LIFT STA.	-----
SEWER LINE	-----
PERMANENT BARRICADE	-----
TRAFFIC SIGNAL LIGHT	-----
HAND HOLE	-----
ENTRANCE	-----
BUILDING	-----
SATELLITE DISH	-----
STEEL TOWER	-----
FLAG POLE	-----
SIGN	-----
TYPE III BARRICADE	-----
CHANNELIZING DEVICE	-----
TYPE A WARNING LIGHT	-----

**MINNESOTA DEPARTMENT OF TRANSPORTATION
SAINT LOUIS COUNTY**

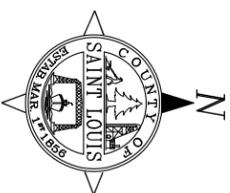
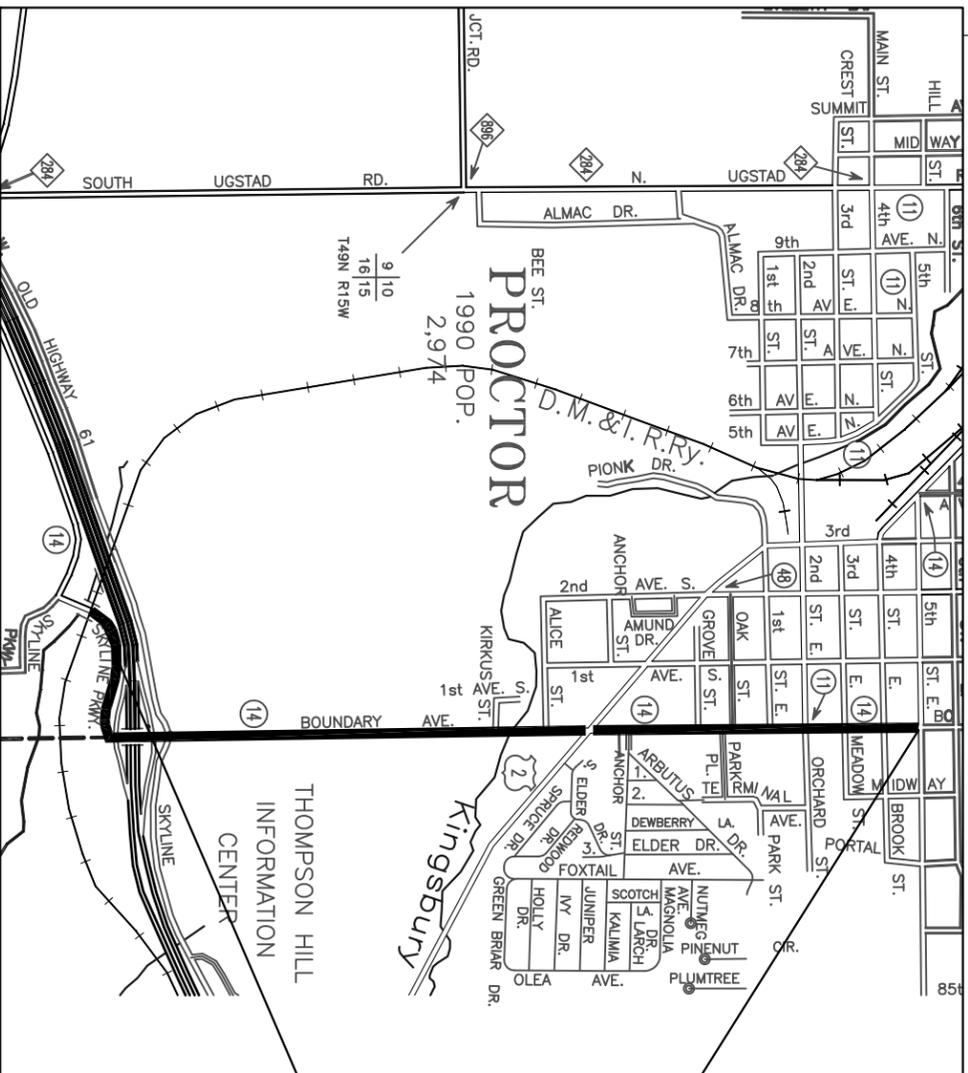
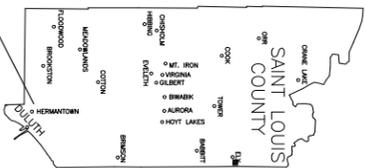
**CONSTRUCTION PLAN FOR: MILL BITUMINOUS PAVEMENT, PLANT MIXED
BITUMINOUS SURFACE, AND CONCRETE WALK**

LOCATED ON **C.S.A.H. 14 (BOUNDARY AVE. IN PROCTOR)**
BETWEEN **MOUNTAIN DRIVE** AND **5TH ST. IN PROCTOR**

FROM A POINT 1449' N. & 1088' W. OF THE SOUTH EAST CORNER OF SECTION 15, T49N, R15W
TO A POINT 638' SOUTH OF THE NORTH EAST CORNER OF SECTION 10, T49N, R15W

STATE AIDE PROJ. NO. **069-614-017**

GROSS LENGTH	9,137.88	FEET	1,731	MILES
BRIDGES-LENGTH	294.21	FEET	0.056	MILES
EXCEPTIONS-LENGTH	406.15	FEET	0.077	MILES
NET LENGTH	8,436.52	FEET	1,598	MILES



END SAP 069-614-017
STA. 253+50.89

BEGIN SAP 069-614-017
STA. 162+13.01

PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY

MINN. PROJ. NO.

GOVERNING SPECIFICATIONS

THE 2016 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MUTUOD, INCLUDING THE FIELD MANUAL DATED JANUARY 2016 AVAILABLE AT: <http://www.dot.state.mn.us/trdfficeeng/publ/fieldmanual/index.html>

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET AND INDEX MAP
2	ESTIMATED QUANTITIES
3-4	TYPICAL SECTIONS
5-8	CONSTRUCTION CHARTS
9	CONSTRUCTION DETAILS
10-14	PED. RAMPS
15-16	PLAN SHEETS
17-19	TRAFFIC CONTROL DETAILS
20-21	PAVEMENT MARKING DETAILS

THIS PLAN CONTAINS 21 SHEETS

DESIGN DESIGNATION

ADT (Current Year)	2017	=	4055
ADT (Future Year)	2037	=	5272
D (Directional Distr.)		=	50/50%
T (Heavy Commercial - 3.6%)		=	188
Traffic Lane Width		=	12.0'
Shoulder Width		=	VAR.
Functional Classification		=	MINOR ART. IN URB. BNDRY
Urban Reconditioning	sta. 162+13.01 to sta. 253+50.89		

DESIGNERS **DULUTH CONSTR. (S. RUHANEN, 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.

PRINT NAME: **STEPHEN E. KRASAWAY**

SIGNATURE: _____

DATE: _____ LIC. NO. **45397**

APPROVED _____ DATE _____
ST. LOUIS CO. HWY. ENGINEER

COUNTY PROJECT 0014-278072

STATE AIDE PROJECT 069-614-017

SHEET NO. 1 OF 21 SHEETS