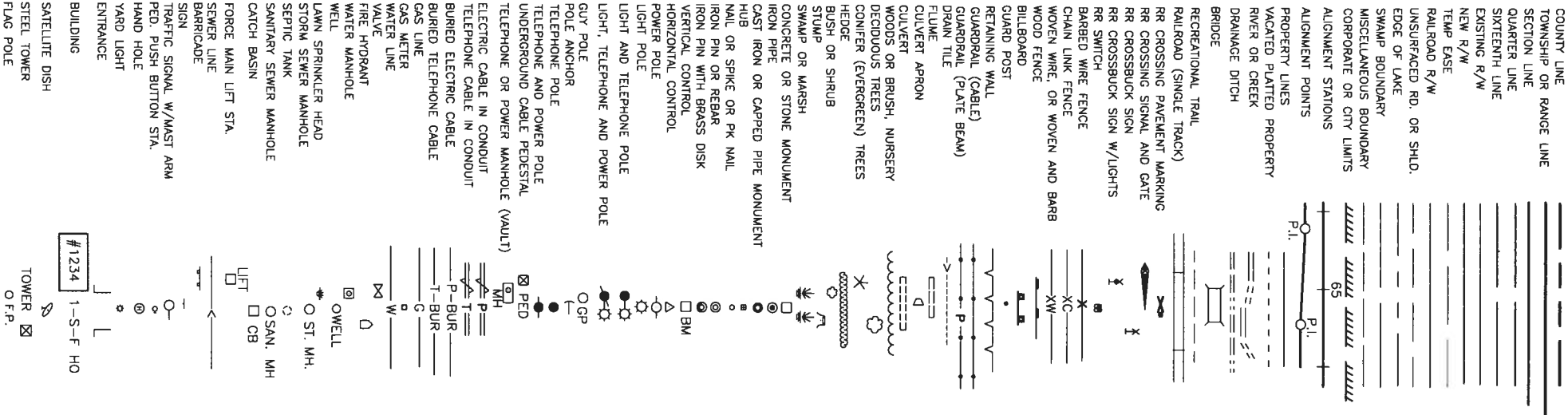


PLAN SYMBOLS

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
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 PEDSTAL
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



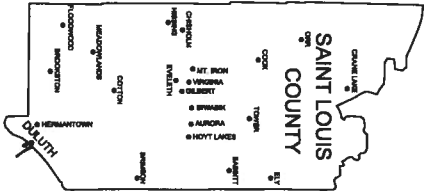
MINNESOTA DEPARTMENT OF TRANSPORTATION
SAINT LOUIS COUNTY

CONSTRUCTION PLAN FOR: GRADING, AGGREGATE BASE, CURB AND GUTTER, COLD IN-PLACE RECYCLE,
PLANT MIXED BITUMINOUS SURFACE, SIDEWALKS, RETAINING WALLS,
SIGNALS.

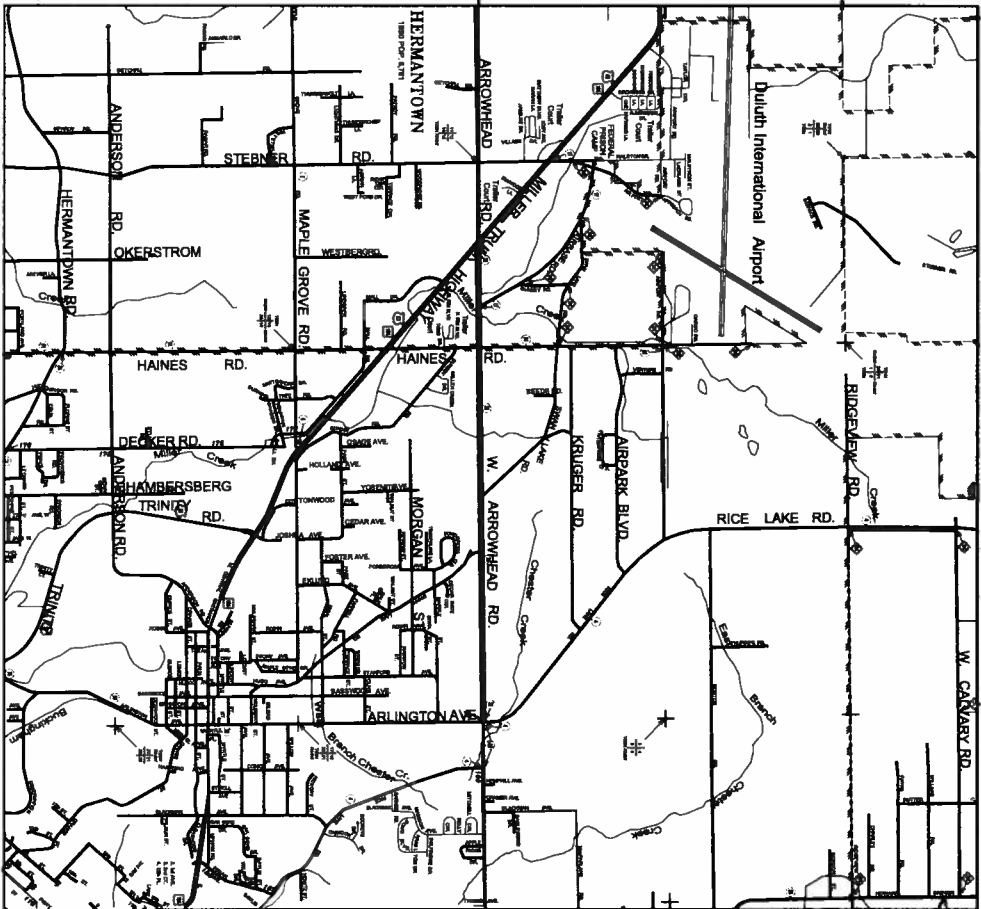
LOCATED ON C.S.A.H. 32 (ARROWHEAD ROAD)
BETWEEN T.H. 53 AND ARLINGTON AVENUE
FROM A POINT AT T.H. 53 TO A POINT AT ARLINGTON AVENUE

STATE AID PROJ. NO. 069-632-022

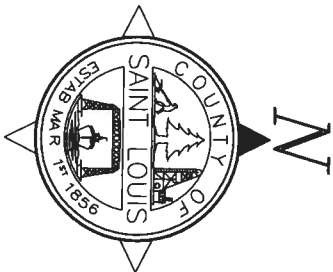
| | | | |
|----------------------|-----------|------|-------------|
| Urban Reconditioning | | | |
| GROSS LENGTH | 1,3606.00 | FEET | 2.58 MILES |
| BRIDGES-LENGTH | 0.00 | FEET | 0.000 MILES |
| EXCEPTIONS-LENGTH | 0.00 | FEET | 0.00 MILES |
| NET LENGTH | 1,3606.00 | FEET | 2.58 MILES |



R14W GENERAL LAYOUT



BEGIN S.A.P. 069-632-022
STA. 0+00.00
END S.A.P. 069-632-022
STA. 136+06.00



| PLAN REVISIONS | |
|----------------|-----------------------|
| DATE | SHEET NO. APPROVED BY |
| | |
| | |
| | |
| | |
| | |
| | |

| PREVIOUS PLANS | |
|----------------|--|
| | |
| | |
| | |
| | |

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 |
| 2-3 | TYPICAL SECTIONS |

- THIS PLAN CONTAINS 3 SHEETS -

DESIGN DESIGNATION - 8820.9946 (URBAN)
Urban Reconditioning sta. 0+00.00 to sta. 136+06.00

| | | | | |
|------------------------|------|---------|----------------|-----|
| R VALUE | 10 | Σ N1820 | = | 000 |
| ADT (Current Year) | 2017 | = | 13,800 | |
| ADT (Future Year) | 2037 | = | 15,200 | |
| D (Directional Distr.) | | = | 50/50% | |
| T (Heavy Commercial) | | = | 5.0% | |
| Proj. Soil Factor | | = | | |
| Design Loading | | = | 10 TON | |
| Traffic Lanes | | = | 11' | |
| Functional Class | | = | Minor Arterial | |
| Design Speed | | = | 45 mph | |

DESIGN SQUAD: SOUTH DESIGN
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DUTY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: STEPHEN E. KRASAWAY

SIGNATURE: _____

DATE: _____ LIC. NO.: 45397

APPROVED: ST. LOUIS COUNTY HIGHWAY ENGINEER DATE: _____

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

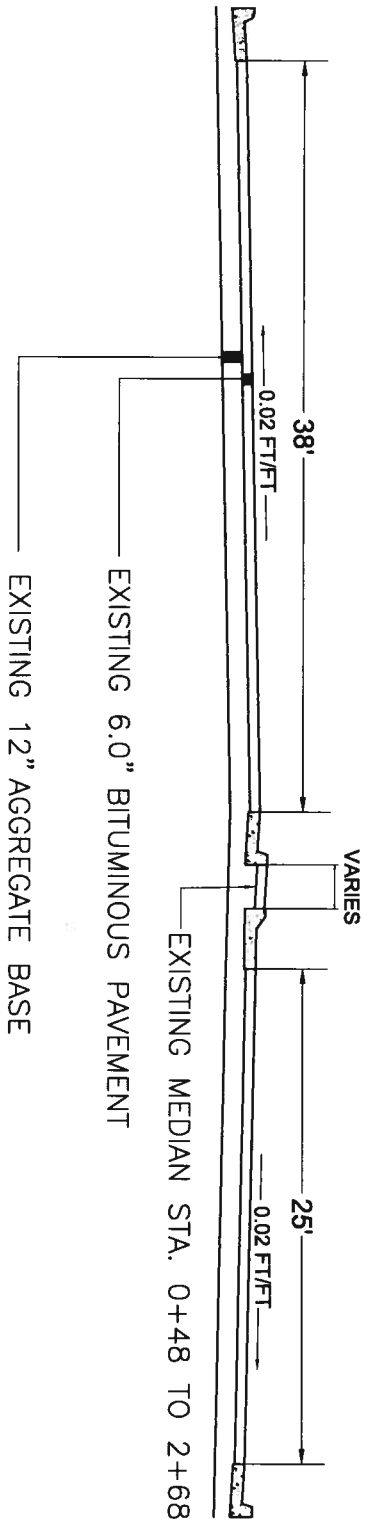
STATE AID ENGINEER: APPROVED FOR STATE AID FUNDING DATE: _____

S.A.P. NO. 069-632-022

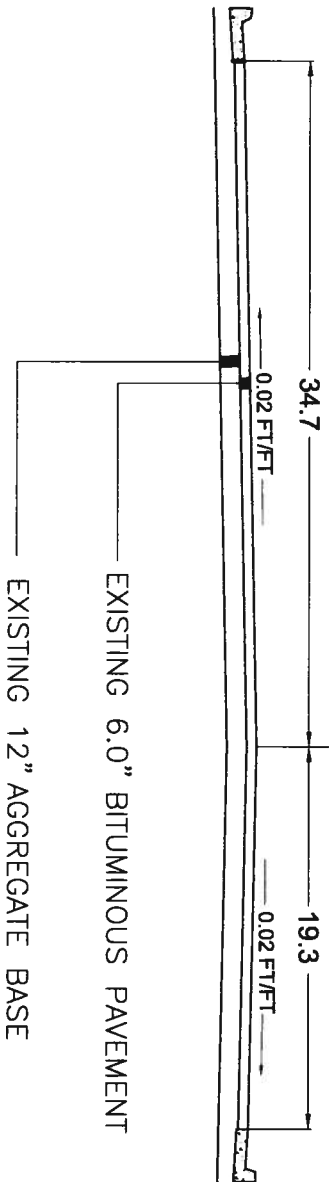
CP 0032-153443 TST

SHEET 1 OF 3 SHEETS

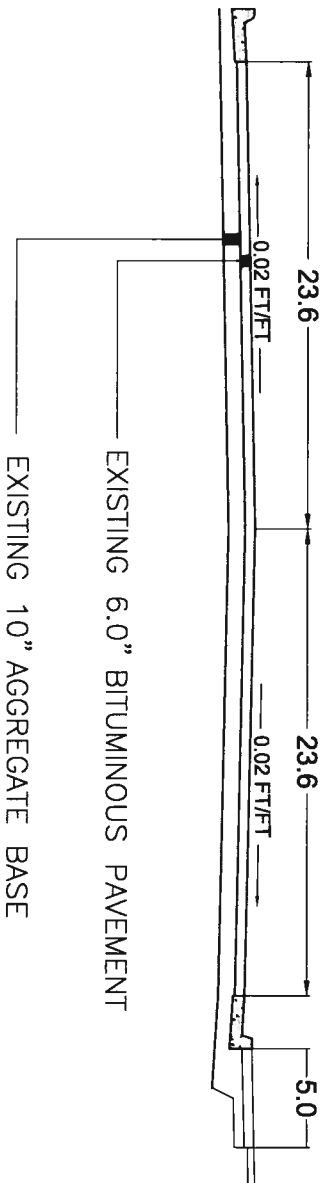
EXISTING TYPICAL SECTION
C.S.A.H. 32 (ARROWHEAD ROAD)
STA. 0+00 TO STA. 6+60



EXISTING TYPICAL SECTION
C.S.A.H. 32 (ARROWHEAD ROAD)
STA. 6+60 TO STA. 44+33



EXISTING TYPICAL SECTION
C.S.A.H. 32 (ARROWHEAD ROAD)
STA. 44+33 TO STA. 136+06



I HEREBY CERTIFY THAT THIS PLAN SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION
AND I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

STEPHEN E. KRASAWAY
TYPED NAME

45397
LIC. NO.

SIGNATURE

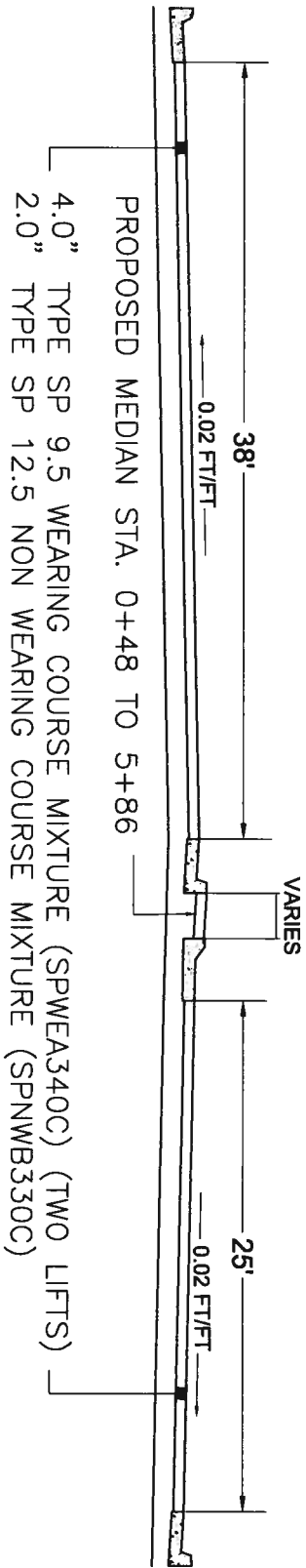
DATE

CSAH 32 - WO 153443

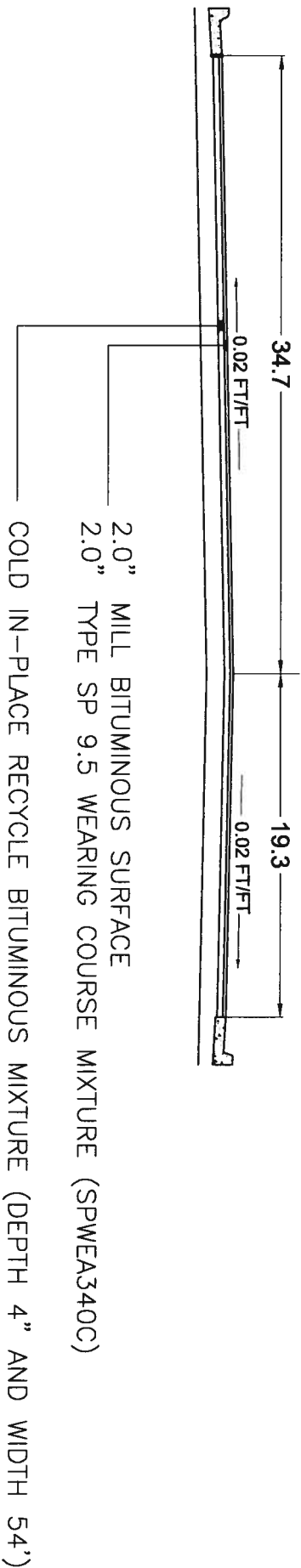
SAP 069-632-022 WO 153443 Sheet 2 of 3 Sheets

TYPICAL SECTIONS

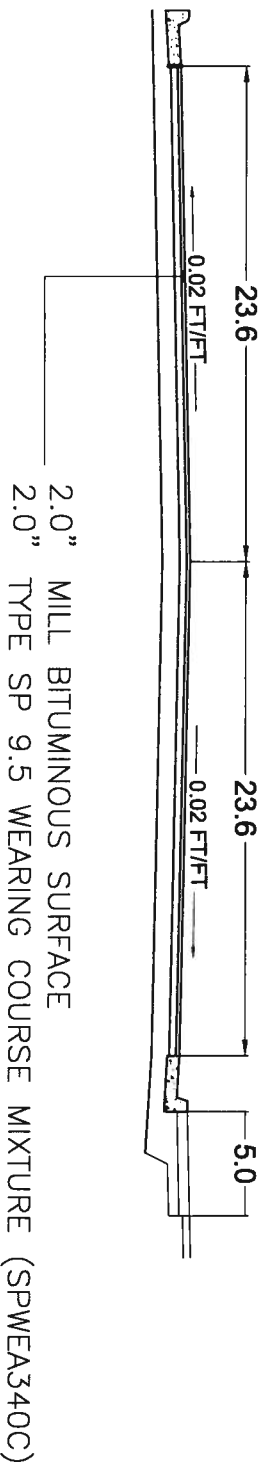
TYPICAL SECTION
C.S.A.H. 32 (ARROWHEAD ROAD)
STA. 0+00 TO STA. 6+60



TYPICAL SECTION
C.S.A.H. 32 (ARROWHEAD ROAD)
STA. 6+60 TO STA. 44+33



TYPICAL SECTION
C.S.A.H. 32 (ARROWHEAD ROAD)
STA. 44+33 TO STA. 136+06



I HEREBY CERTIFY THAT THIS PLAN SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION
AND I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

STEPHEN E. KRASAWAY

TYPED NAME

45397

LIC. NO.

SIGNATURE

DATE

CSAH 32 - WO 153443

SAP 069-632-022 WO 153443 Sheet 3 of 3 Sheets

TYPICAL SECTIONS