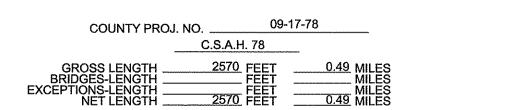
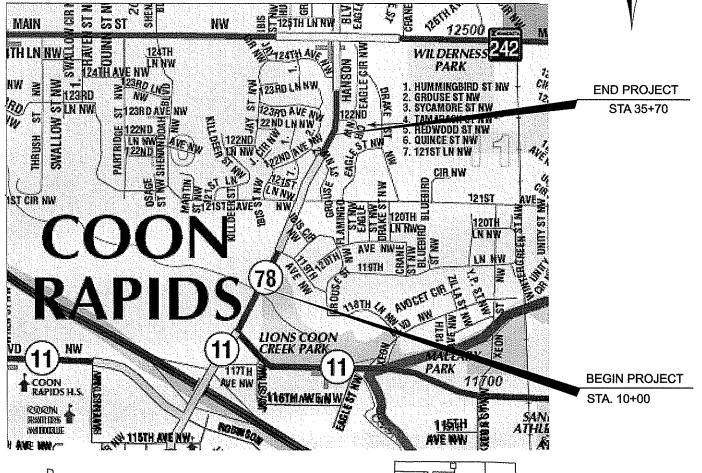
MINNESOTA DEPARTMENT OF TRANSPORTATION **ANOKA COUNTY**

CONSTRUCTION PLAN FOR 1.5" BITUMINOUS MILL & 2" OVERLAY

LOCATED ON C.S.A.H. 78 BETWEEN 580' SOUTH OF 119TH AVE NW AND 230' NORTH OF 122ND AVE NW





AVE WWW LOCAL		ATE MIN		
	PROJECT LOCATION CITY OF COON RAPIDS ANOKA COUNTY MN/DOT TRANSPORTATION DISTRICT - METRO SECTION 10 TOWNSHIP 31 NORTH RANGE 24 WEST		T D	

	STATEMENT OF ESTIMATED QUANTITIES			09-17-78
ITEM NO.	ITEM	NOTE NO.	UNIT	TOTAL EST. QUANT.
2021.501	MOBILIZATION		LUMP SUM	1
2232.501	MILL BITUMINOUS SURFACE (1.5")	8	SQ YD	17802
2357,502	BITUMINOUS MATERIAL FOR TACK COAT	4	GALLON	890
2360.501	TYPE SP 12.5 WEARING COURSE MIX (4,E)		TON	1940
2360.501	TYPE SP 12.5 WEARING COURSE MIX (4,E)-STREETS & ENTRANCES		TON	107
2563,601	TRAFFIC CONTROL	7	LUMP SUM	1
2564,603	4" BROKEN LINE WHITE-TEMPORARY PAINT	6	LIN FT	960
2564,603	4" SOLID LINE WHITE - EPOXY	3	LINFT	5120
2564.603	4" BROKEN LINE WHITE-EPOXY	3	LIN FT	960
2564,603	4" SOLID LINE YELLOW - EPOXY	3	LIN FT	1872
2564.603	4" DOUBLE SOLID LINE YELLOW - EPOXY	3	LIN FT	2190
2564.603	24" SOLID LINE WHITE-HOT TAPE	3	LIN FT	140
2564.603	24" SOLID LINE YELLOW-EPOXY	3	LIN FT	345
2564.618	3' x 6' ZEBRA CROSSWALK WHITE- HOT TAPE	3	SQ FT	846
2565.602	LOOP DETECTOR 6' X 6'	1,2	EACH	20
2580.523	REMOVABLE LANE TAPE	5	LIN FT	410
2581.602	PAVEMENT MESSAGE (RT ARROW)-HOT TAPE	3	EACH	2
2581.602	PAVEMENT MESSAGE (LT ARROW)-HOT TAPE	3	EACH	4

- WILL BE LOCATED AND MARKED BY ANOKA CO. PRIOR TO MILLING.
- REPLACE ONLY IF DAMAGED DURING MILLING OPERATION
- MESSAGES AND EPOXY PAINT TO BE INPLACE WITHIN 72 HOURS OF FINAL PLACEMENT OF BITUMINOUS WEARING COURSE.
- TACK FOR MILLED BITUMINOUS AREAS, EST, AT 0,05 GAL / SQ YD,
- TEMP LANE TAPE SKIPS TO BE PLACED ON NEW MAT AT END OF EACH PAVING DAY.
- TEMP PAINT SKIPS FOR MARKING LANES DELINEATION ON MILLED BIT SURFACE AT END OF EACH MILLING DAY.
- INCLUDES STOP HERE ON RED SIGNS INSTALLED AT INTERSECTION (DURING MILLING OPERATION).
- MAINLINE MILLING INCLUDES DETAIL MILLING AROUND MANHOLES, GATE VALVES, AND ALL STRUCTURES IN BIT. PAVEMENT AREA TO BE MILLED.

SPECIAL DIRECTIONS:

- CONTRACTOR MUST COORDINATE MILLING / PAVING SCHEDULE WITH ANOKA COUNTY SIGNAL DEPARTMENT FOR SIGNALS TO BE PUT ON CONTRACTOR MUST COORDINATE MILLING / PAVING SCHEDULE WITH ANOKA CO. SHERIFF DEPT./CITY OF COON RAPIDS POLICE DEPT. FOR TRAFFIC CONTROL
- TRAFFIC CONTROL ITEM INCLUDES POLICE OFFICER IF NEEDED FOR MILLING / PAVING SIGNALIZED INTERSECTIONS.
 STOP HERE ON RED SIGNS TO BE PLACED ON TEMP, STANDS AT STOP BAR LOCATIONS IMMEDIATELY AFTER MILLING. SIGNALIZED INTERSECTIONS.
- - SIGNS REMAIN INPLACE UNTIL PERMANENT PAVEMENT MARKINGS ARE INPLACE (STOP HERE ON RED SIGNS / INSTALL, INCIDENTAL TO TRAFFIC CONTROL)
 CONTRACTOR MUST COORDINATE MILLING / PAVING SCHEDULE WITH ANOKA COUNTY SIGNAL DEPARTMENT FOR SIGNALS TO BE PUT ON FLASH FOR INTERSECTION MILLING / PAVING.

BASIS OF PLANNED QUANTITIES

2357.502	BITUMINOUS MATERIAL FOR TACK COAT	.05 GAL / SQ YD
2360,501	TYPE SP 12.5 WEARING COURSE MIX (4, E)	(SQ YD * IN. *115 LBS)/2000 = TO
2563,613	PORTABLE CHANGEABLE MESSAGE SIGN	(2 UNITS * 8 DAYS)
2564.603	4" BROKEN LINE WHITE- TEMPORARY PAINT	((PROJECT LENGTH * 2) / 50) * 10

PLAN SET

Sheet

09-17-78

- TITLE / SEQ
- 2 MILLING PLAN
- 3 4 TYPICAL SECTIONS
- **PAVEMENT MARKINGS**

NO DATE BY CKD APPR REVISION
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LICENSE NO. 40416

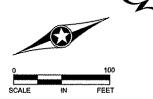


ANOKA COUNTY HIGHWAY DEPT

STATE PROJECT NO. STATE PROJECT NO. STATE PROJECT NO. STATE PROJECT NO.

TITLE / SEQ **CSAH 78**

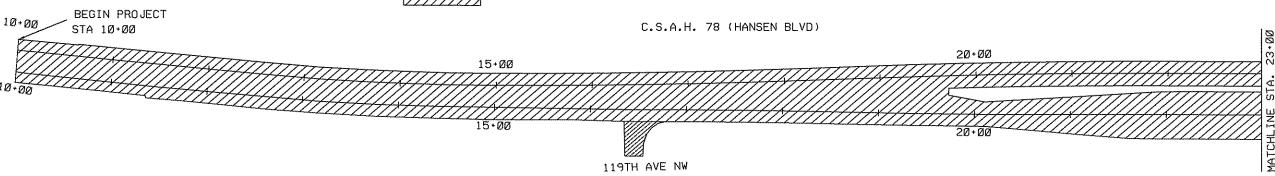
Sheet 1 of 5 Sheets

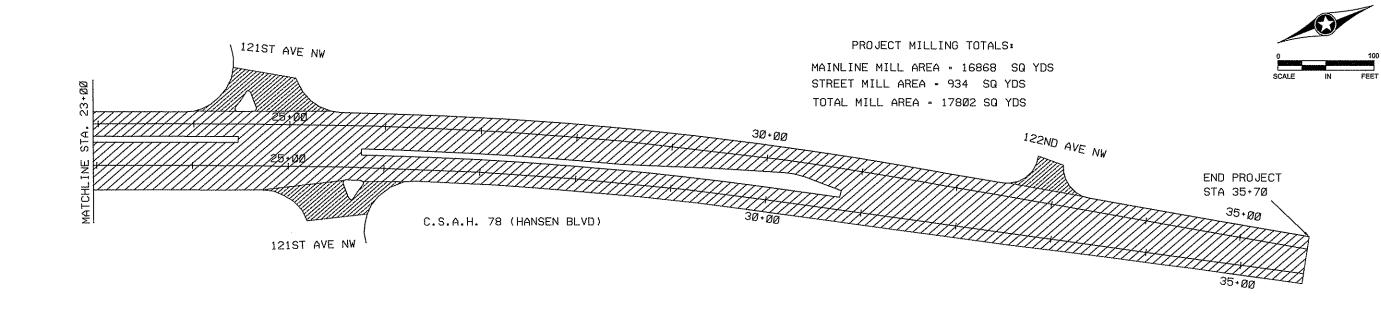


1.5° STREET MILL AND PAVING AREA

1.5° MAINLINE MILL AND PAVING AREA

BEGIN PROJECT
STA 10+00





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.

ENDED PROFESSIONAL ENGINEER UNDER THE LAWS OF ESTATE OF MINNESOTA.

EINT NAME: Charles Cadenhead

SNATURE: 123/23/0-9 LICENSE NO. 40416

DRAWN BY __SK____ DATE _2/3/2009
DESIGN BY __SK___ DATE _2/3/2009

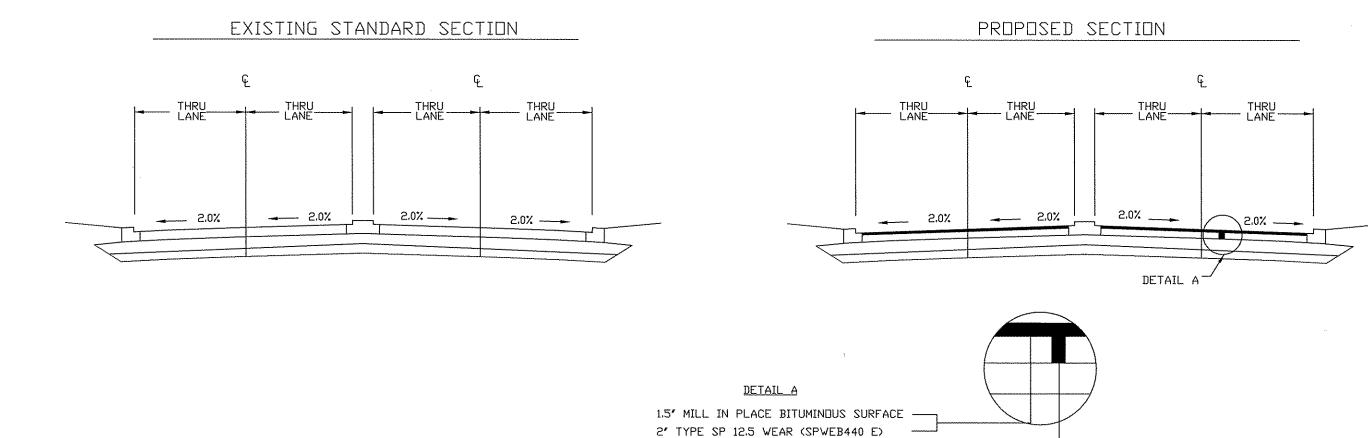


ANOKA COUNTY HIGHWAY DEPT.

STATE PROJECT NO. ______
STATE AID PROJECT NO. _____
CITY PROJECT NO. _____
COUNTY PROJECT NO. _____09-17-78

BIT MILLING PLAN
CSAH 78
STA 10+00 TO 35+70

Sheet 2 of 5 Sheets



EXISTING BITUMINDUS

CHECKED BY _______ DATE _2/3/2009

STATE PROJECT NO.

CITY PROJECT NO.

STATE AID PROJECT NO.

COUNTY PROJECT NO. ___

09-17-78

TYPICAL SECTIONS CSAH 78

Sheet 3 of 5 Sheets

ANOKA COUNTY

HIGHWAY DEPT

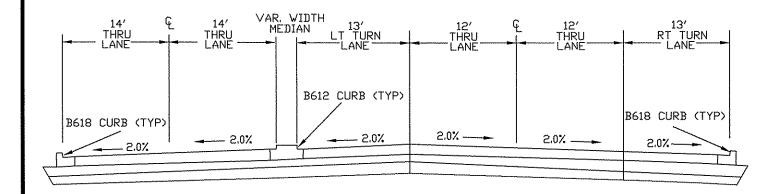
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: Charles Cadenhead
SIGNATURE: Utal Cardenhead
DATE: \$\frac{1}{23}\left(0.9) \quad \text{License NO. 4041}

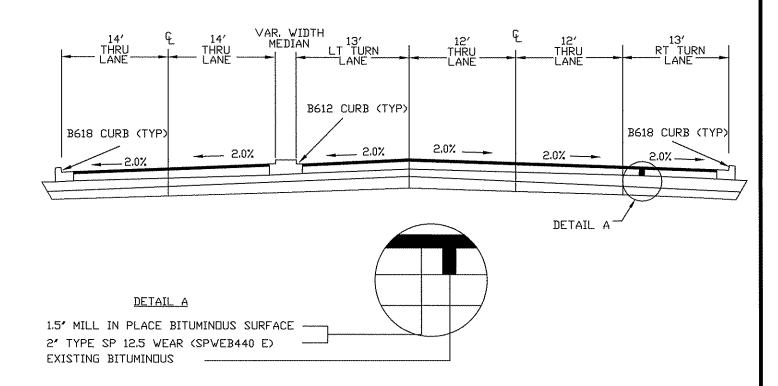
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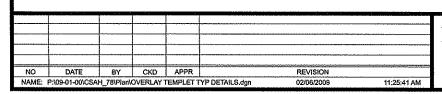
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EXISTING STANDARD SECTION



PROPOSED SECTION





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: Charles Cadenhead

 DRAWN BY
 SK
 DATE
 2/3/2009

 DESIGN BY
 SK
 DATE
 2/3/2009

ANOKA

ANOKA COUNTY HIGHWAY DEPT.

STATE PROJECT NO.

STATE AID PROJECT NO.

CITY PROJECT NO.

COUNTY PROJECT NO.

09-17-78

TYPICAL SECTIONS CSAH 78

Sheet 4 of 5 Sheets

