MINNESOTA DEPARTMENT OF TRANSPORTATION MEEKER COUNTY

STATE AID PROJECT NO. S.A.P. 047-612-008 CONSTRUCTION PLAN FOR CSAH 12

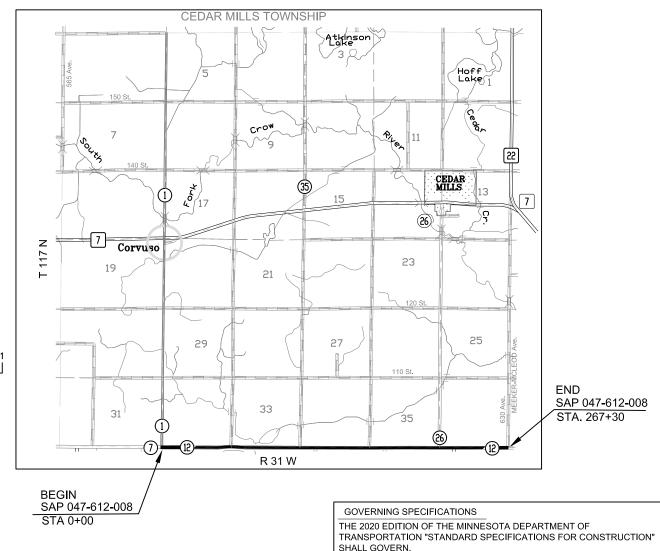
PAVEMENT RECLAMATION, BITUMINOUS SURFACE AND AGGREGATE SHOULDERS

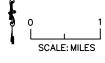
LOCATED ON: CSAH 12 BETWEEN: CSAH 1 AND THE EAST COUNTY LINE

LOCATED IN: T.117N. R.31W. SECTIONS: 32-36

GRADED UNDER: S.A.P.047-612-01 (1974) AND S.A.P.047-612-03 (1978)

GROSS LENGTH	26,730	_FEET	5.062	_ MILES
BRIDGES-LENGTH		FEET		_ MILES
EXCEPTIONS-LENGTH		_ FEET		_ MILES
NET. LENGTH	26,730	_ FEET	5.062	_ MILES







INDEX
SHEET 1 TITLE SHEET
SHEET 2 ESTIMATED QUANTITIES
SHEET 3-4 TYPICAL SECTIONS

THIS PLAN CONTAINS 4 SHEETS

CSAH 12 DESIGN DESIGNATION

10 TON DESIGN
POSTED SPEED___55 MPH
R VALUE____18
ADT (2025)____630
PROJ. ADT (2045)____693

20 YR BESALS____210,000 SHOULDER WIDTH___5' - 6' SIGNATURE

PHIL SCHMALZ

PRINTED NAME

I HERBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPPRYISION, AND THAT I AM A DULY LICENSED PROFFESIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE: 1/17/2025 LICENSE NUMBER: 50403

Mully Scaledy DATE: 1/17/2025

APPROVED: MEEKER COUNTY ENGINEER

DATE:

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

		STATE AID PROJECT No. 047-612-008			
	CSAH 12 FULL DEPTH RECLAMATION AND PAVING				
	ESTIMATED QUANTITIES				
				EST.	
	SPEC. NO.	ITEM	UNIT	QUANTITY	
	2021.501	MOBILIZATION	LS	1	
1)	2215.504	FULL DEPTH RECLAMATION	SY	87,195	
2)	2221.509	SHOULDER BASE AGGREGATE, CL 1 (P)	TON	7,196	
3)	2232.504	MILL BITUMINOUS SURFACE (VAR DEPTH)	SY	106	
4)	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GAL	5,126	
5)	2360.509	TYPE SP 12.5 NON WEARING COURSE MIXTURE (2, C)	TON	12,066	
6)	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (2, C)	TON	7,240	
7)	2540.602	MAILBOX SUPPORT	EACH	11	
8)	2582.503	4" BROKEN LINE PAINT	LIN FT	5,380	
9)	2582.503	4" SOLID LINE PAINT	LIN FT	1,770	
10)	2582.503	6" SOLID LINE PAINT	LIN FT	52,586	

(P) DESIGNATES PLAN QUANTITY

- 1) INCLUDES 4035 SY FOR APPROACHES AND ENTRANCES.
- 2) INCLUDES 409 TONS FOR APPROACHES AND ENTRANCES.
- 3) SEE TAB A FOR LOCATIONS.
- 4) INCLUDES 136 GALLONS FOR ROAD APPROACHES AND ENTRANCES.
- 5) INCLUDES 320 TONS FOR ENTRANCES AND APPROACHES.
- 6) INCLUDES 192 TONS FOR ENTRANCES AND ROAD APPROACHES.
- 7) INCLUDES REMOVING INPLACE POST, INSTALLING NEW POST AND SALVAGING INPLACE MAILBOX AND REPLACING ON POST. IF MAILBOX CANNOT BE SALVAGED A NEW BOX WILL BE PROVIDED BY THE COUNTY. REPLACEMENT POST LOCATIONS WILL BE DESIGNATED ON THE PROJECT.
- 8) ON THE FINAL WEAR COURSE ONLY, PAINT SHALL BE YELLOW.
- 9) ON THE FINAL WEAR COURSE ONLY, PAINT SHALL BE YELLOW. INCLUDES 270 LIN FT OF DOUBLE SOLID PAINT (135 ACTUAL ROAD LIN FT).
- 10) ON THE FINAL WEAR COURSE ONLY, PAINT SHALL BE WHITE.

	LOWING STANDARD PLATES AS APPROVED FHWA SHALL APPLY ON THIS PROJECT
8000K	TEMPORARY CHANNELIZERS
9000E	APPROACHES AND ENTRANCES
9350C	MAILBOX SUPPORT

NDTES:

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TRAFFIC CONTROL WILL BE INCIDENTAL AND IS THE CONTRACTOR'S RESPONSIBILITY. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST MMUTCD, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED "STANDARD GUIDELINES FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES".

(i)	MILL BITUMINOUS SURFACE (VAR.)					
		LENGTH	WIDTH	AREA		
	LOCATION	(FT)	(FT)	(SY)		
	CSAH 12 STA. 0+00	24	6	16		
	CSAH 1	89	4	40		
	CO. RD. 24	24	4	11		
	DVWY 60308	19	2	4		
	DVWY 56577	15	2	3		
	CSAH 26	35	4	16		
	CSAH 12 STA. 267+30	24	6	16		
			TOTAL	106		

BASIS OF PLANNED QUANTITIES

AGGREGATE SHOULDERING - 1 TON = 0.55 CU YD BITUMINOUS MIX - 113 lbs/sq yd/in deep

TACK COAT - 0.06 gal/sq yd

QUANTITIES INCLUDED FOR:

43 GVL. FIELD APPROACHES
2 GRAVEL DRIVEWAY ENTRANCES
13 PAVED DRIVEWAY ENTRANCES
AND 9 ROAD APPROACHES

ESTIMATED QUANTITIES

Mill Julius Lic.. No. 50403 Date: 1/17/2025

CSAH 12, SAP 047-612-008

SHEET 2 OF 4 SHEETS

CSAH 12 FROM CSAH 1 TO CSAH 26 STA. 0+00 to 214+00 **INPLACE PROPOSED** BOTH SIDES 50' R/W CL 1 PAVED AGG SHLD AGG SHLD SHLD VAR. VAR. PAVED THRU LANE PAVED THRU LANE 2' 3' _12'--12' VAR.-**PROPOSED** SHOULDER 4" DEPTH 2%VAR 4% VAR -1.5" (2360) TYPE SP 9.5 WEARING COURSE (SPWEA240C) -2.5" (2360) TYPE SP 12.5 NON WEARING COURSE (SPNWB230C) 7" BITUMINOUS-9" VAR AGGREGATE BASE 11" FULL DEPTH RECLAMATION (14' WIDE)-

NOTES

- (A) EXISTING SHOULDER MATERIAL IS APPROXIMATELY 1.5" BELOW PAVEMENT EDGE.
 EXISTING SHOULDER MATERIAL SHALL BE PULLED IN AND BLENDED WITH RECLAIM MATERIAL AS NECESSARY TO ACCOMMODATE PAVING, INCIDENTAL TO FULL DEPTH RECLAMATION.
- B REMOVING, HAULING AND STOCKPILING THE TOP 4" OF RECLAIMED MATERIAL IS INCIDENTAL TO FULL DEPTH RECLAMATION. RECLAIMED MATERIAL MAY BE USED IN LEIU OF CL1 AGG. ON PROPOSED SHOULDERS, DRIVEWAYS AND ENTRANCES, SUBJECT TO THE GRADATION REQUIREMENTS OF PASSING A 2 INCH SIEVE.

 THE REMAINING RECLAIMED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CSAH 12 ROAD HISTORY FROM CSAH 1 TO CSAH 26

(1978) GRADED UNDER S.A.P. 47-612-03 (3" CL.5) (1981) S.A.P. 47-612-04 (6" CL5, 3" BASE, 1½" WEAR)

(1984) SEALCOAT

(1994) 47-612-06 (1 1/2" NW, 1 1/2" WEAR)

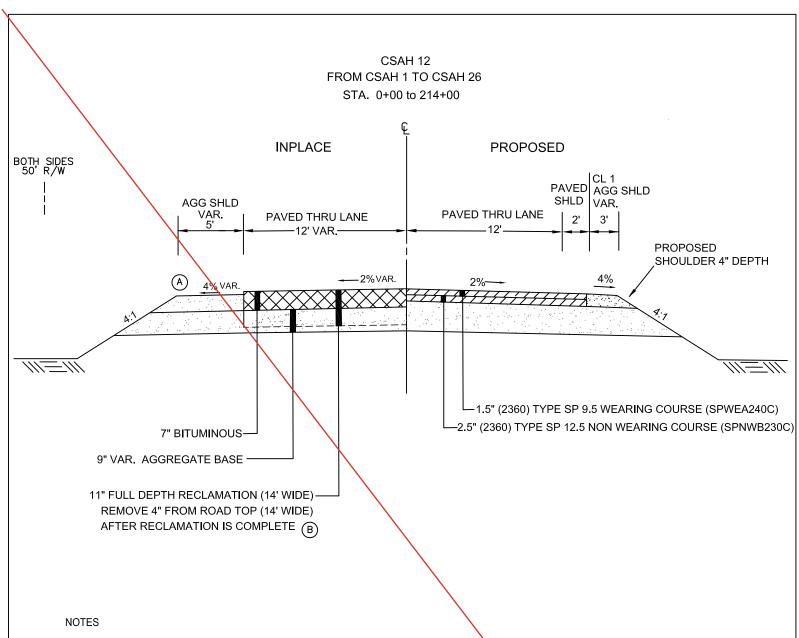
(1995) SEALCOAT

TYPICAL SECTION
DETAILS NOT TO SCALE

CSAH 12, SAP 047-612-008

SHEET 3 OF 4 SHEETS

REMOVE 4" FROM ROAD TOP (14' WIDE) AFTER RECLAMATION IS COMPLETE $\stackrel{\frown}{(B)}$



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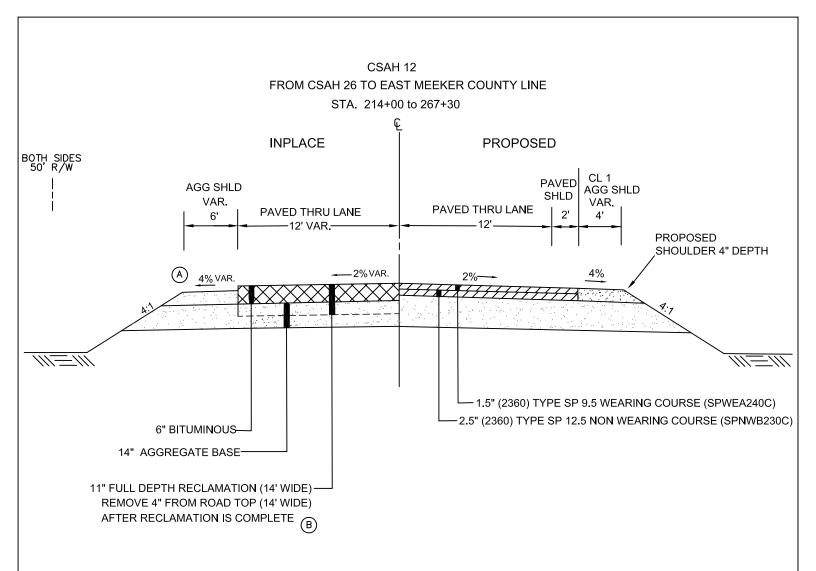
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TYPICAL SECTION
DETAILS NOT TO SCALE

CSAH 12, SAP 047-612-008

SHEET 3 OF 4 SHEETS



NOTES

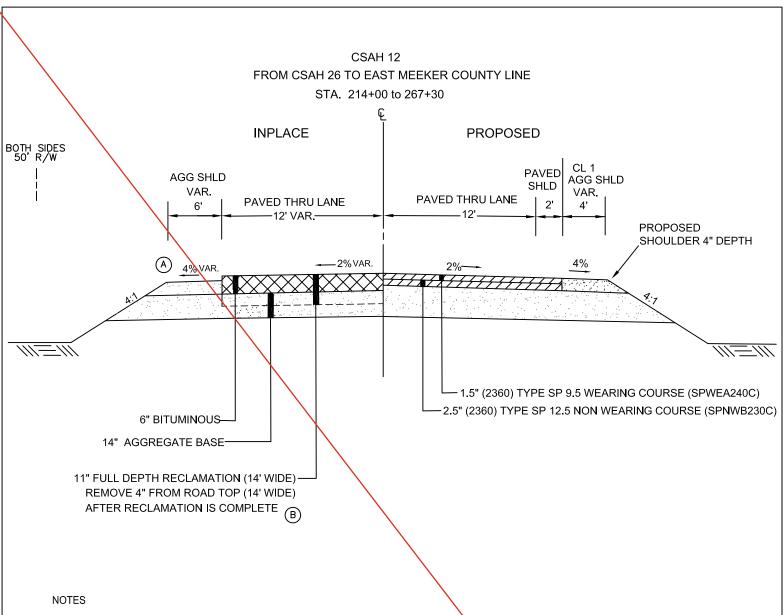
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CSAH 12 ROAD HISTORY
FROM CSAH 26 TO EAST CO. LINE
(1974) GRADED UNDER S.A.P. 47-612-01
(1975) S.A.P. 47-612-02 (9" CL 3, 4" CL5, 1 ½" PLANT MIX)
(1978) SEALCOAT
(1985) 1 1/2" NW, 1 1/2" WEAR
(1988) SEALCOAT
(1994) 47-612-06 (1 1/2" NW, 1 1/2" WEAR)
(1997) SEALCOAT

TYPICAL SECTION
DETAILS NOT TO SCALE

Certified By Aluly Start Lic.. No. 50403 Date: 1/17/2025 CSAH 12, SAP 047-612-008 SHEET 4 OF 4 SHEETS



- $\stackrel{\textstyle ullet}{oldsymbol{\mathsf{A}}}$ EXISTING SHOULDER MATERIAL IS APPROXIMATELY 1.5" BELOW PAVEMENT EDGE. EXISTING SHOULDER MATERIAL SHALL BE PULLED IN AND BLENDED WITH RECLAIM MATERIAL AS NECESSARY TO ACCOMMODATE PAVING, INCIDENTAL TO FULL DEPTH RECLAMATION.
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TYPICAL SECTION
DETAILS NOT TO SCALE