

# MINNESOTA DEPARTMENT OF TRANSPORTATION

## ANOKA COUNTY

CONSTRUCTION PLAN FOR \_\_\_\_\_ MILL BITUMINOUS, AND BITUMINOUS SURFACING \_\_\_\_\_  
 LOCATED ON CSAH 84 BETWEEN COUNTY ROAD J AND 530' SOUTH OF CEDAR ST.

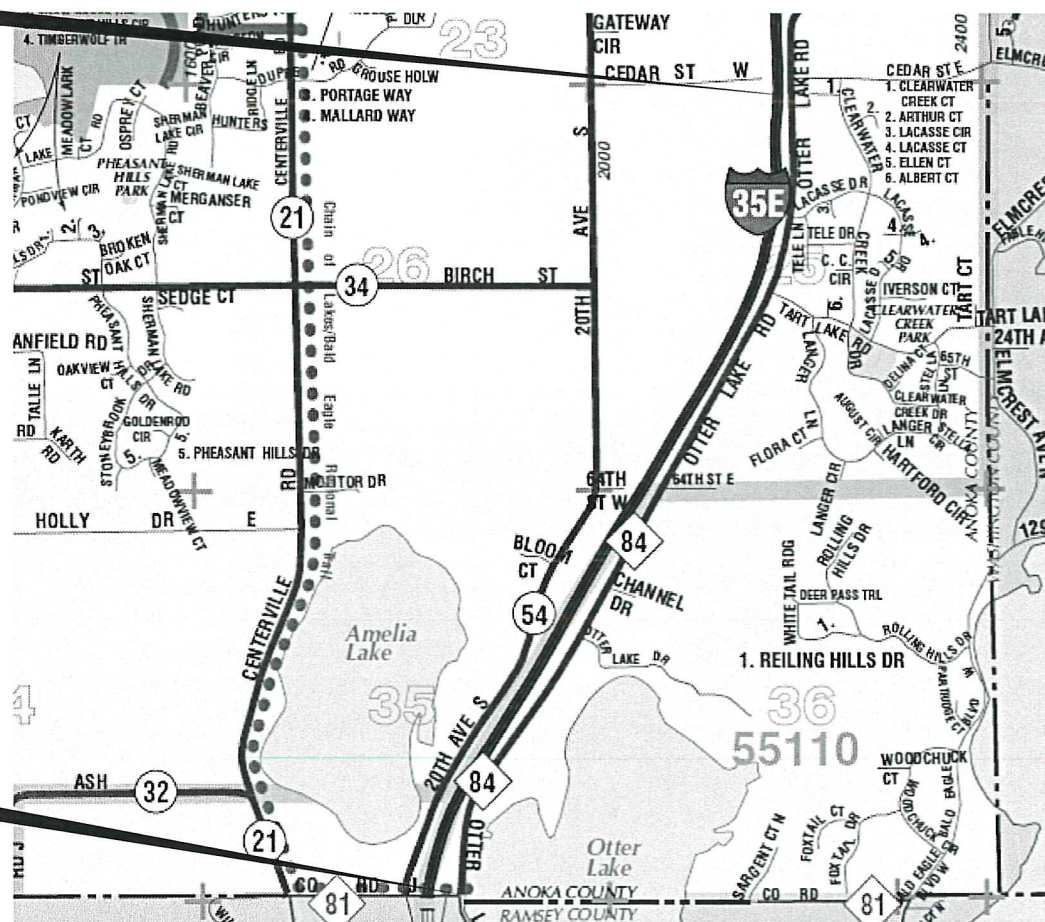
GOVERNING SPECIFICATIONS  
 THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE INSTALLED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MNMUTCD), AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."

THIS PLAN CONTAINS 17 SHEETS

### INDEX

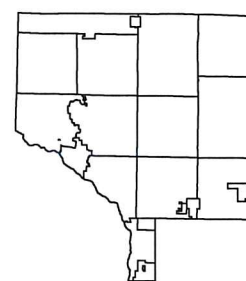
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3	TYPICAL SECTIONS
4 - 6	DETAILS
7 - 11	CONSTRUCTION PLAN
12 - 17	SIGNING AND STRIPING PLANS

END CP 18-25-84  
 CSAH 84, STA: 125+00



BEGIN CP 18-25-84  
 CSAH 84, STA: 10+00

### PROJECT LOCATION



CITY OF LINO LAKES  
 ANOKA COUNTY  
 MN/DOT TRANSPORTATION DISTRICT - METRO  
 SECTION 31, 35 & 36  
 TOWNSHIP 32 NORTH  
 RANGE 24 WEST

<u>CSAH 84</u>			
GROSS LENGTH	11,500 FEET	2.18 MILES	
EXCEPTIONS-LENGTH	0.00 FEET	0.000 MILES	
NET LENGTH	0.00 FEET	0.000 MILES	
DESIGN SPEED	50 MPH		
CURRENT ADT	5800		

Approved: 4/18/2018  
 ANOKA COUNTY ENGINEER

NO	DATE	BY	CHKD	APPR	REVISION

NAME: P:\18-01-00\CR\_84\_(SouthCountyLine-530SoCedar)\Base\PROPOSED\PROPOSED.dgn

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: JOSEPH J. MACPHERSON  
 SIGNATURE:   
 DATE: 4-12-18 LICENSE NO. 46732

DRAWN BY: DLD DATE: 04/13/2018  
 DESIGN BY: DLD DATE: 04/13/2018  
 CHECKED BY: HG DATE: 04/13/2018



**ANOKA COUNTY  
 HIGHWAY DEPT.**

COUNTY PROJECT 18-25-84

TITLE SHEET  
 Sheet 1 of 17 Sheets

spinoas

### STATEMENT OF ESTIMATED QUANTITIES

NOTES	ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL PROJECT QUANTITIES ESTIMATED
	2021.501	MOBILIZATION	LUMP SUM	1
	2221.509	SHOULDER BASE AGGREGATE CLASS 5	TON	521
2	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	31225
11	2232.604	MILL BITUMINOUS PAVEMENT (SPECIAL)	SQ YD	631
	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GAL	1593
1,3	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,B)	TON	73
	2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (4,C)	TON	3591
8	2540.602	MAIL BOX SUPPORT	EACH	28
4	2563.601	TRAFFIC CONTROL	LUMP SUM	1
5	2563.613	PORTABLE CHANGEABLE MESSAGE SIGN	UNIT DAY	20
9,10	2574.507	COMMON TOPSOIL BORROW (LV)	CU YD	30
9	2575.504	EROSION CONTROL BLANKETS CATEGORY 0	SQ YD	150
6	2581.503	REMOVABLE PREFORMED PAVEMENT MARKING TAPE	LIN FT	460
7	2582.503	4" SOLID LINE MULTI COMP	LIN FT	24870
7	2582.502	4" BROKEN LINE MULTI COMP	LIN FT	1220
7	2582.503	4" DOUBLE SOLID LINE MULTI COMP	LIN FT	5235

### CONSTRUCTION NOTES

1	CONTRACTOR IS RESPONSIBLE FOR CONTACTING PROPERTY OWNER 48 HOURS BEFORE STARTING OPERATION.
2	DETAIL MILLING ON MAIN LINE IS INCIDENTAL TO THIS ITEM.
3	ITEM FOR BITUMINOUS STREET APPROACHES. STREET APPROACHES SHALL BE PAVED AFTER MAINLINE PAVING AND BEFORE FINAL STRIPING.
4	ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO, AND BE INSTALLED IN ACCORDANCE WITH, THE MOST CURRENT REVISION OF THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". DO NOT PASS, PASS WITH CARE, NO CENTER STRIPE, AND STOP HERE ON RED SIGNS SHALL BE INPLACE WHENEVER PAVEMENT MARKINGS ARE NOT PRESENT.
5	2 MESSAGE BOARDS, ONE ON EACH END OF PROJECT, WILL BE INSTALLED 7 DAYS PRIOR TO ANY CONSTRUCTION; REFERENCE STRIPING PLAN FOR DETAILS.
6	CENTERLINE AND LANE DESIGNATION SKIPS TO BE APPLIED AS SOON AS POSSIBLE ON EACH NEW LIFT OF PAVEMENT; SKIPS MUST BE INPLACE BEFORE THE CONTRACTOR LEAVES FOR THE DAY. CONTRACTOR IS TO REMOVE PRIOR TO FINAL PAINT
7	FINAL STRIPING SHALL BE INSTALLED WITHIN 72 HOURS OF COMPLETION OF MAINLINE WEAR COURSE PAVING.
8	MAILBOXES SHALL BE INSTALLED AT THE EXISTING MAILBOX LOCATION OR AS DIRECTED BY THE LOCAL POSTAL AUTHORITY. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE LOCAL POSTAL AUTHORITY. MAILBOX REMOVAL AND ALL MATERIALS NECESSARY FOR INSTALLATION ARE INCIDENTAL TO THIS ITEM.
9	ITEM USED AT ENGINEER'S DISCRETION FOR RESTORATION OF DISTURBED AREAS ALONG DRIVEWAYS, AND STREET APPROACHES
10	TYPE 1 FERTILIZER AND TYPE 25-121 SEED ARE INCIDENTAL TO THIS ITEM.
11	TO BE USED FOR MILLING STREET APPROACHES AND/OR DETAIL MILLING AREAS AS IDENTIFIED IN THE PLAN. DETAIL MILLING AROUND MANHOLES, CATCH BASINS, GATE VALVES, AND ALONG CURB LINE IS INCIDENTAL TO THIS ITEM.

### BASIS OF PLANNED QUANTITIES

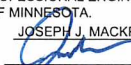
2357	BITUMINOUS MATERIAL FOR TACK COAT	0.05 GAL / SQ YD
2211	AGGREGATE BASE CLASS 5	1.4 TONS / CU YD
2360	ALL BITUMINOUS PAVEMENT	115 LBS / SQ YD / IN THICKNESS
2581	REMOVABLE PREFORM PAVEMENT MARKING TAPE	2' AT 50' INTERVALS
2575	SEED MIXTURE 25-121	61 LBS./ ACRE
2574	FERTILIZER TYPE 3	350 LBS./ ACRE

### MNDOT STANDARD PLATES

PLATE NUMBER	DESCRIPTION
8000J	CHANNELIZERS (3 SHEETS)
9350A	MAILBOX SUPPORT (SWING-AWAY TYPE)

NO	DATE	BY	CKD	APPR	REVISION	
	04/13/2018					11:22:55 AM
NAME: P:\18-01-00\CR_84_(SouthCountyLine-530SofCedar)\Base\PROPOSED\PROPOSED.dgn						

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**ANOKA COUNTY  
HIGHWAY DEPT.**

COUNTY PROJECT 18-25-84

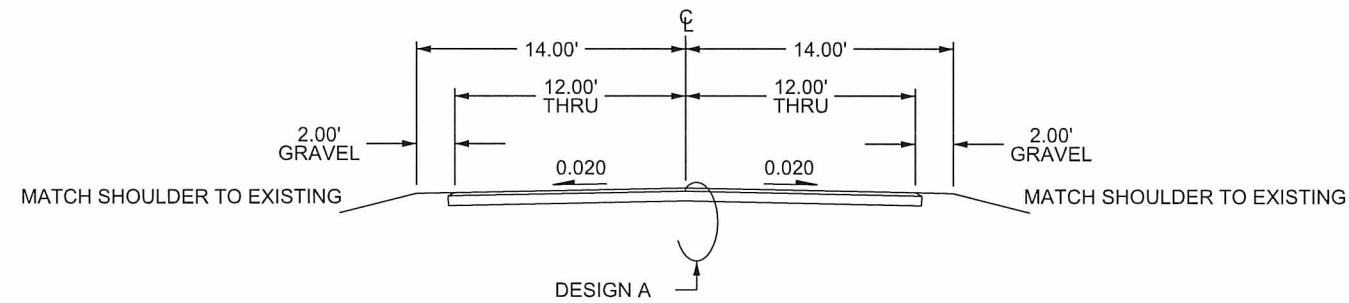
STATEMENT OF ESTIMATED QUANTITIES

Sheet 2 of 17 Sheets

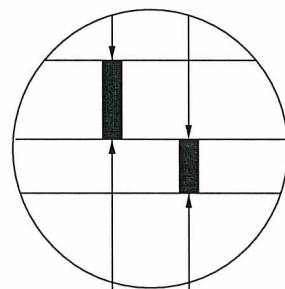
sphaas

### CSAH 84- OTTER LAKE ROAD (PROPOSED) SECTION

10+00 - 125+00



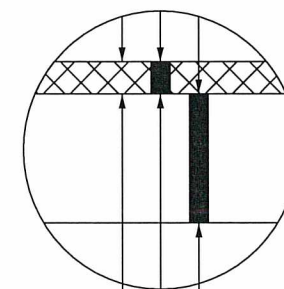
### EXISTING SECTION



8.5" EXISTING BITUMINOUS

6.0" EXISTING AGGREGATE BASE

### DESIGN A MILL SECTION



2.0" MILL BITUMINOUS

2.0" BITUMINOUS WEAR (SPWEB440C)

REMAINING BITUMINOUS

NO	DATE	BY	CKD	APPR	REVISION	DATE	TIME

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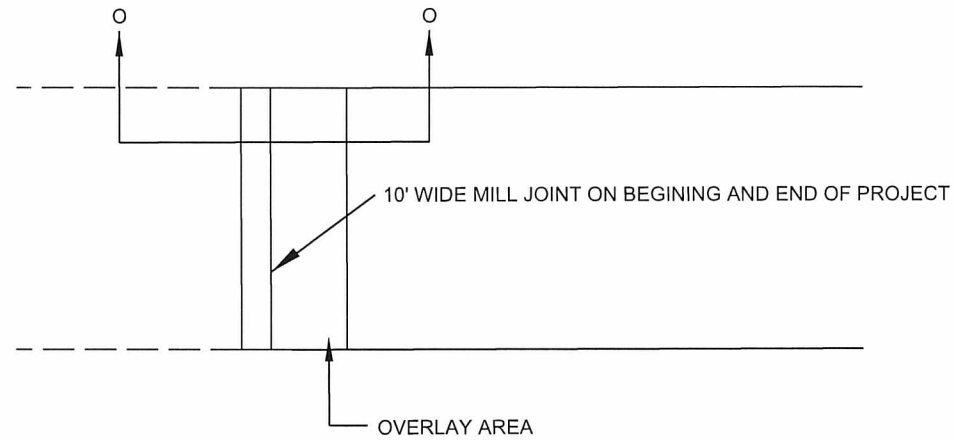
COUNTY PROJECT 18-25-84

TYPICAL SECTIONS

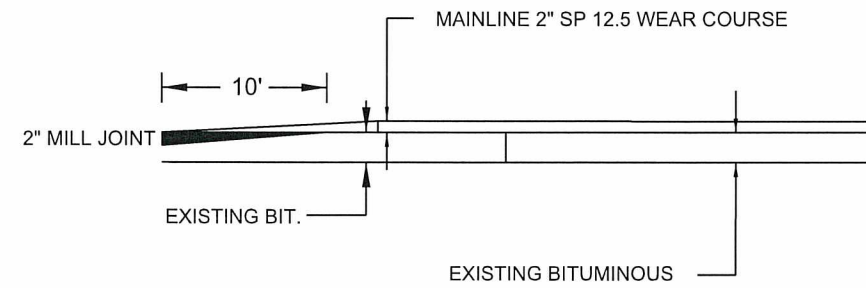
Sheet 3 of 17 Sheets

# MAINLINE JOINT DETAIL (OVERLAY)

PLAN VIEW

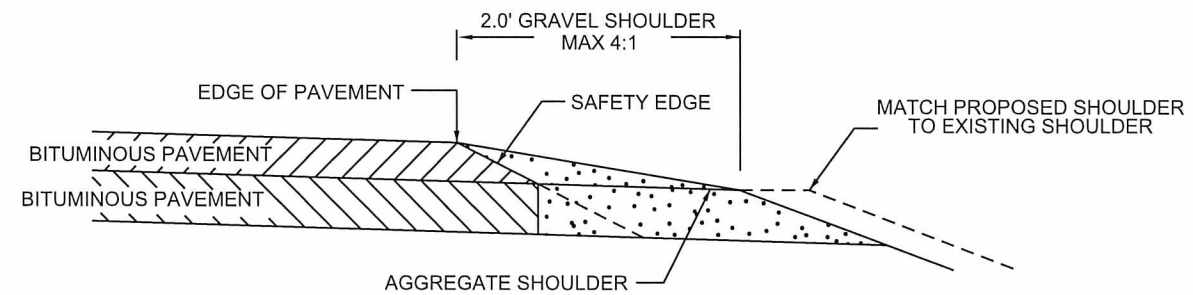


SECTION O - O



## SHOULDER DETAIL

BITUMINOUS SAFETY EDGE  
GRAVEL SHOULDER



SAFETY EDGE TO BE USED IN ALL NON-CURB AREAS ON SHOULDER.

OPTIONAL DESIGN EXTENDS SAFETY EDGE DEEPER THAN 6" AND WIDER THAN 10.5". SEE SPECIAL PROVISIONS.

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ANOKA COUNTY  
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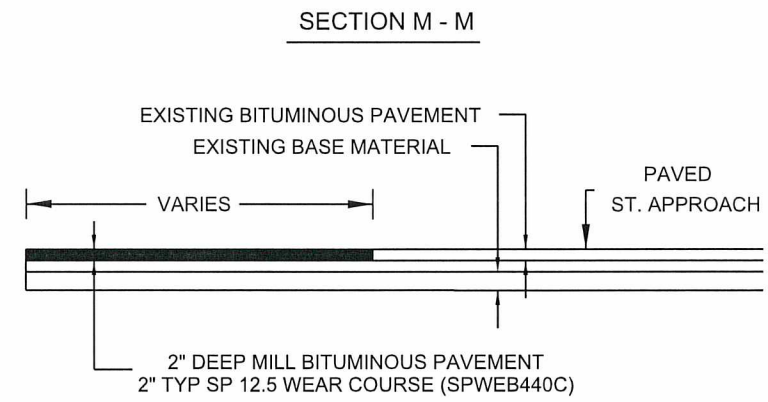
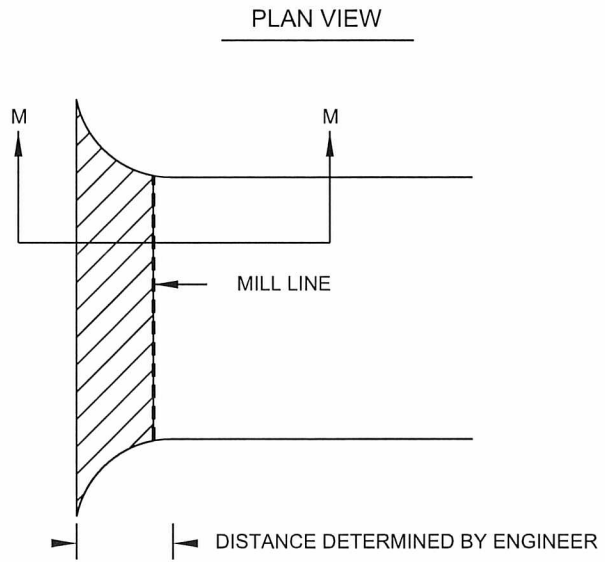
COUNTY PROJECT 18-25-84

DETAILS

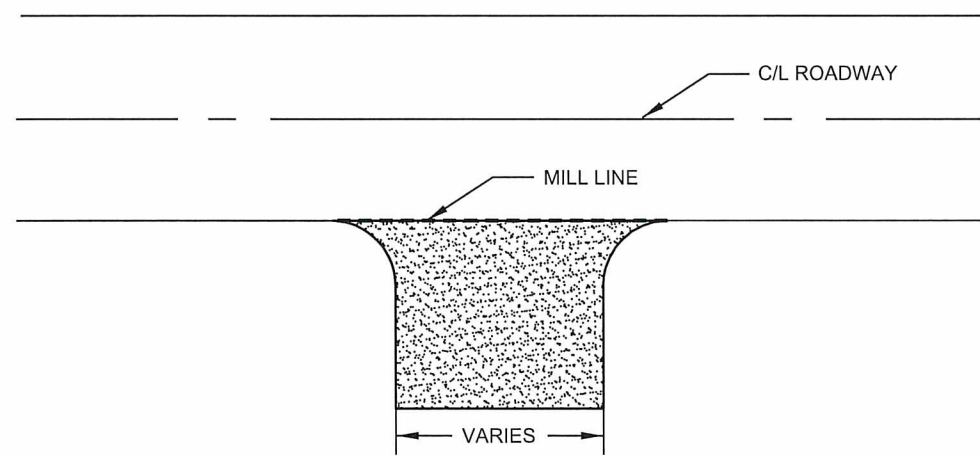
Sheet 4 of 17 Sheets

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### STREET APPROACH DETAIL (MILL & OVERLAY) BITUMINOUS STREET



### STREET APPROACH DETAIL UNPAVED STREET



UNPAVED STREET APPROCHES, PAVED SEPRATE FROM MAINLINE

NO	DATE	BY	CKD	APPR	REVISION	DATE	TIME
						04/13/2018	11:23:09 AM

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COUNTY PROJECT 18-25-84

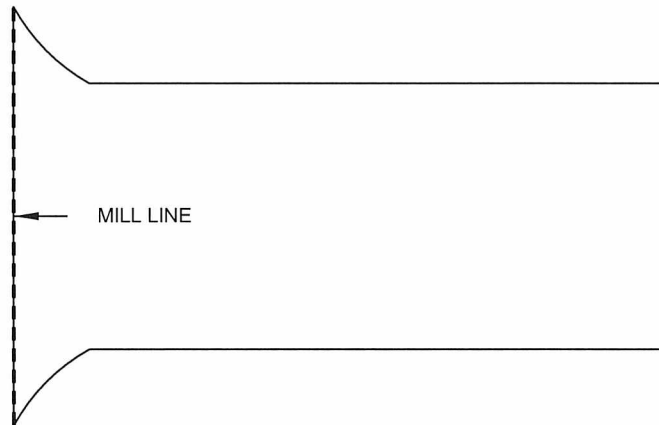
DETAILS

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OVERLAY AREA - DRIVEWAY DETAIL

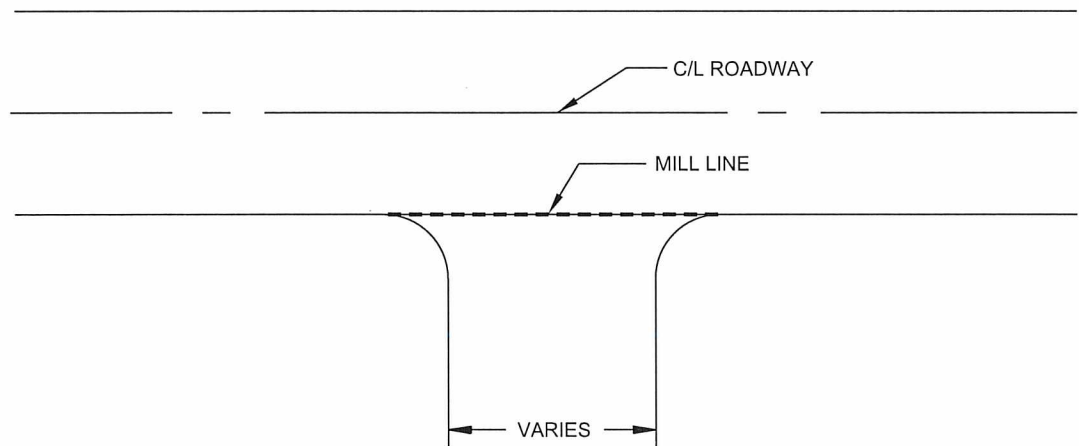
BITUMINOUS

PLAN VIEW



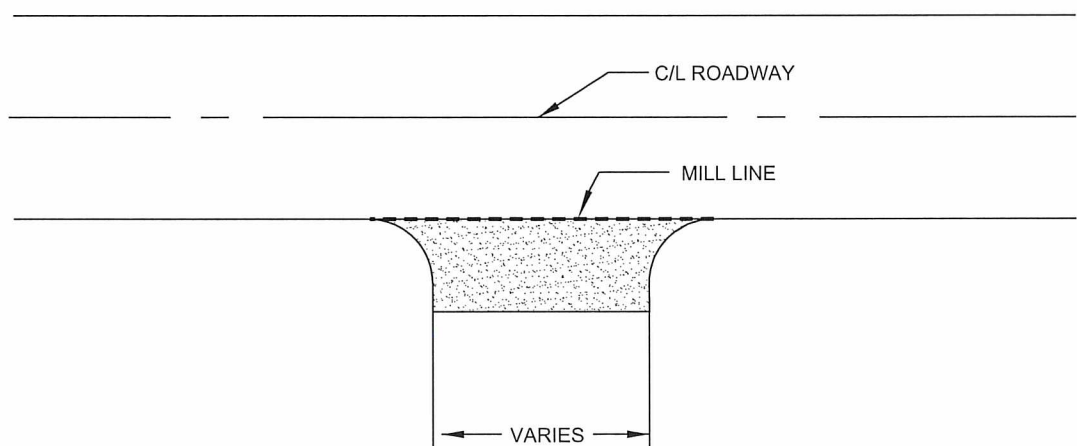
DRIVEWAY DETAIL

CONCRETE DRIVEWAY



DRIVEWAY DETAIL

GRAVEL / FIELD ENTRANCE



NO	DATE	BY	CKD	APPR	REVISION	TIME

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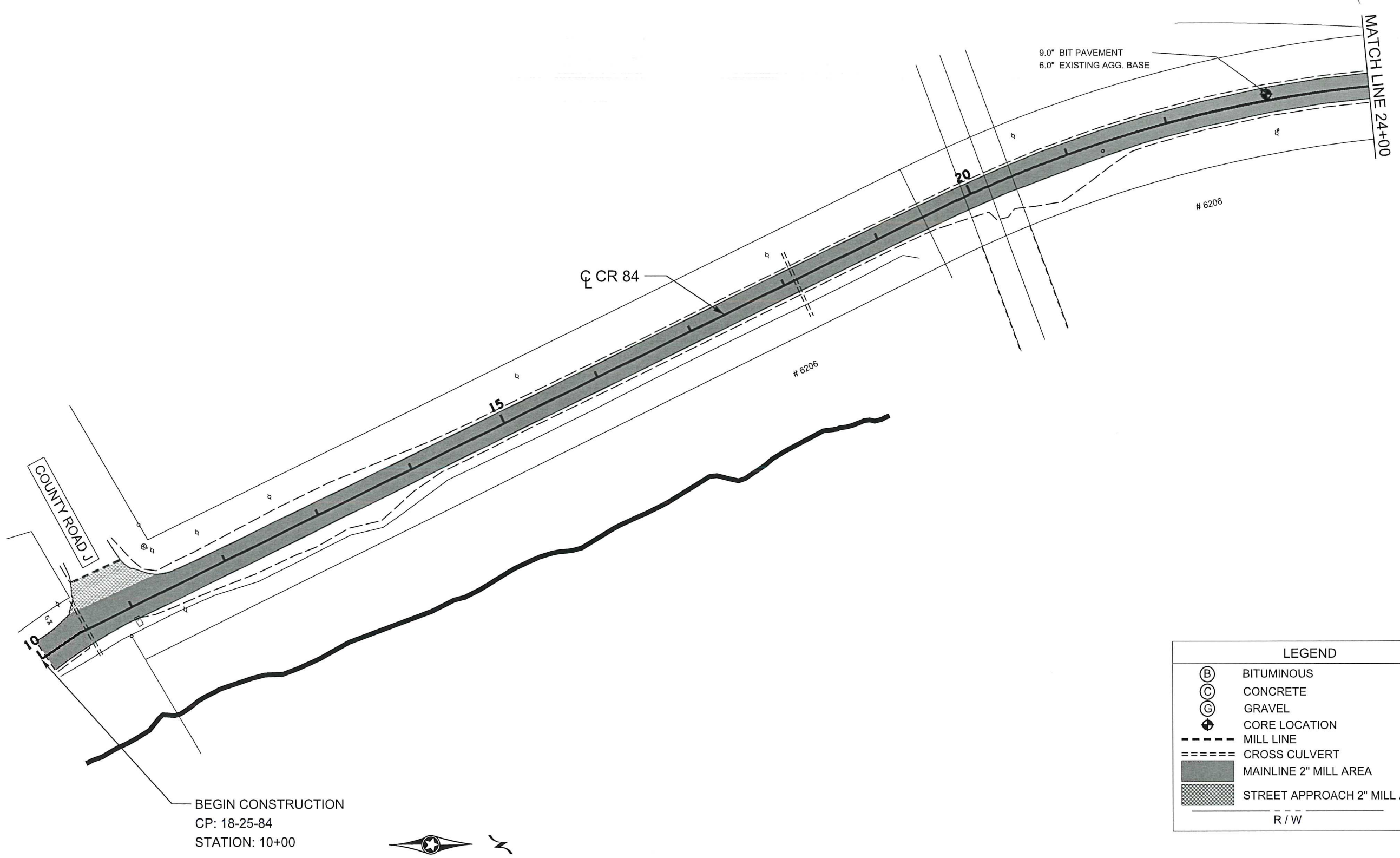


ANOKA COUNTY  
 HIGHWAY DEPT.

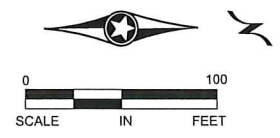
COUNTY PROJECT 18-25-84

DETAILS  
 Sheet 6 of 17 Sheets

DLDiers



BEGIN CONSTRUCTION  
 CP: 18-25-84  
 STATION: 10+00



LEGEND	
(B)	BITUMINOUS
(C)	CONCRETE
(G)	GRAVEL
+	CORE LOCATION
- - - - -	MILL LINE
- - - - -	CROSS CULVERT
[Solid Grey Box]	MAINLINE 2" MILL AREA
[Hatched Box]	STREET APPROACH 2" MILL AREA
R / W	

NO	DATE	BY	CKD	APPR	REVISION	

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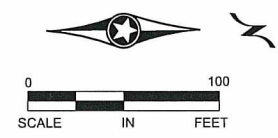
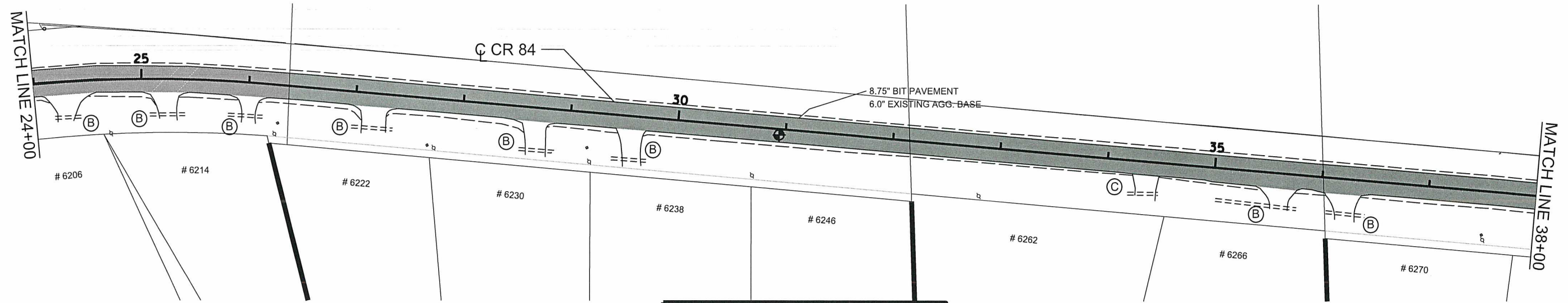
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**ANOKA COUNTY**  
**HIGHWAY DEPT.**

COUNTY PROJECT 18-25-84

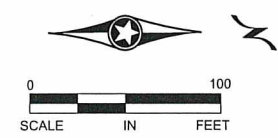
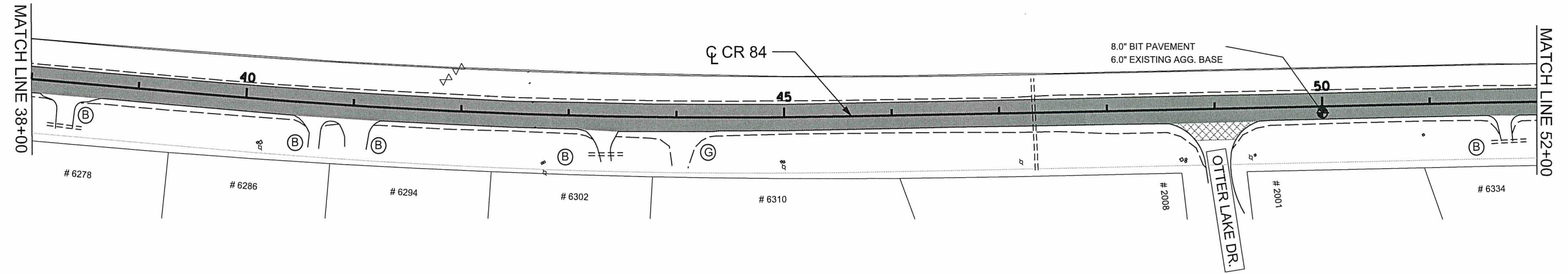
CONSTRUCTION PLAN  
 STA 10+00 TO 24+00  
 Sheet 7 of 17 Sheets

NAME: P:\18-01-00\CR\_84\_(SouthCountyLine-530SofCedar)\Base\PROPOSED\PROPOSED.dgn



**LEGEND**

- (B) BITUMINOUS
- (C) CONCRETE
- (G) GRAVEL
- ⊕ CORE LOCATION
- - - - - MILL LINE
- - - - - CROSS CULVERT
- ▒ MAINLINE 2" MILL AREA
- ▒ STREET APPROACH 2" MILL AREA
- R / W



NO	DATE	BY	CKD	APPR	REVISION	
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NAME: P:\18-01-00\CR\_84\_(SouthCountyLine-530So(Cedar)\Base\PROPOSED\PROPOSED.dgn

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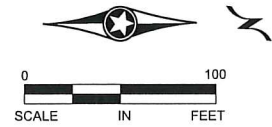
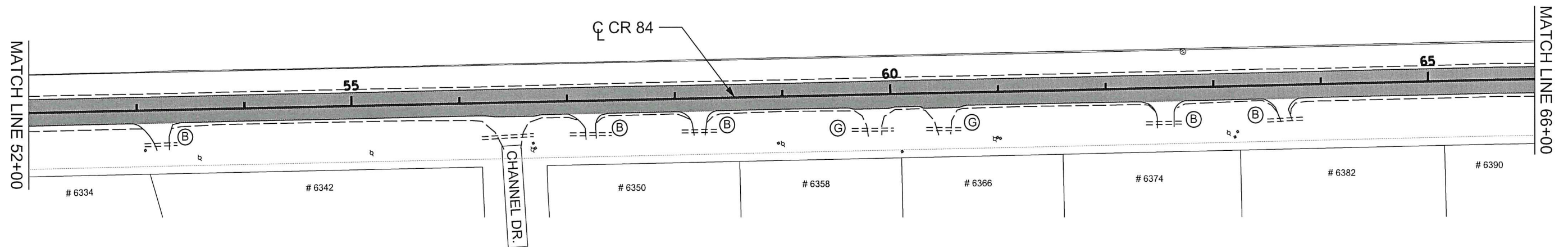
COUNTY PROJECT 18-25-84

**CONSTRUCTION PLAN**

STA 24+00 TO 52+00

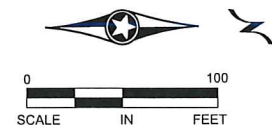
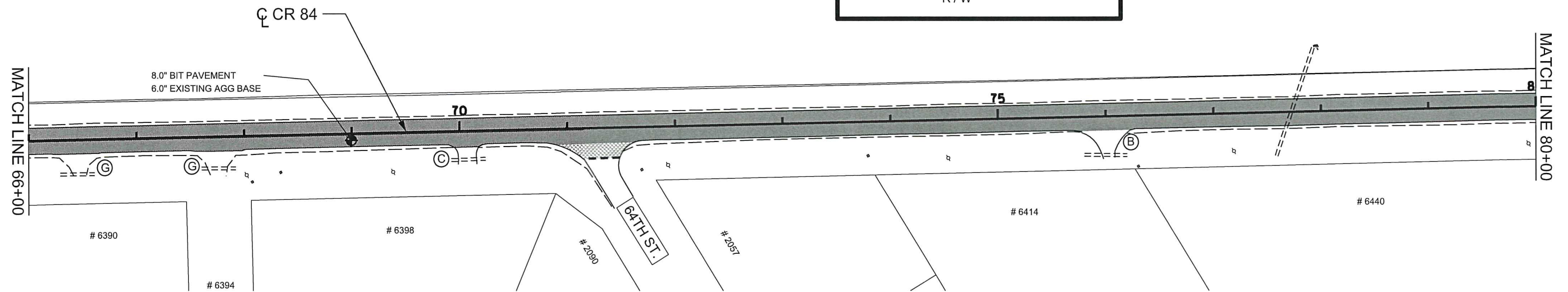
Sheet 8 of 17 Sheets





**LEGEND**

- (B) BITUMINOUS
- (C) CONCRETE
- (G) GRAVEL
- ⊕ CORE LOCATION
- - - - - MILL LINE
- ==== CROSS CULVERT
- ▨ MAINLINE 2" MILL AREA
- ▩ STREET APPROACH 2" MILL AREA
- R / W



NO	DATE	BY	CKD	APPR	REVISION	

NAME: P:\18-01-00\CR\_84\_(SouthCountyLine-5305ofCedar)\Base\PROPOSED\PROPOSED.dgn

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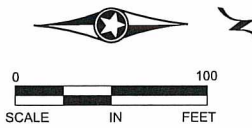
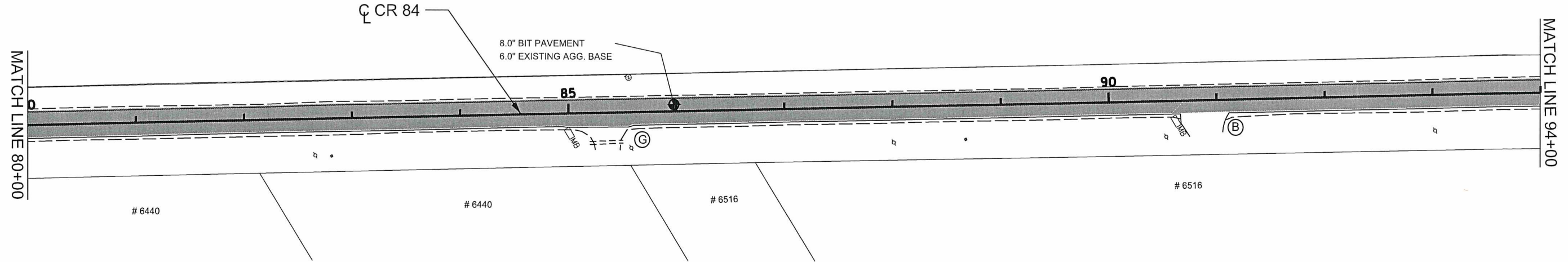
COUNTY PROJECT 18-25-84

**CONSTRUCTION PLAN**

STA 52+00 TO 80+00

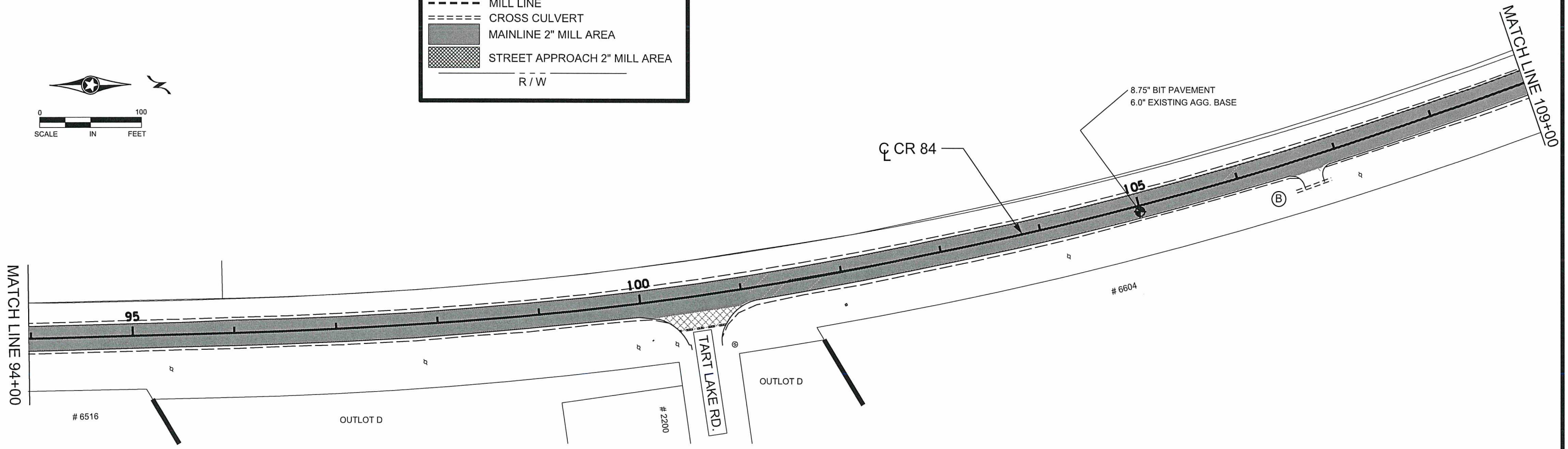
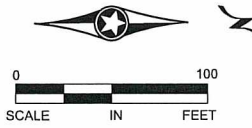
Sheet 9 of 17 Sheets

DLD:ers



**LEGEND**

- (B) BITUMINOUS
- (C) CONCRETE
- (G) GRAVEL
- ⊕ CORE LOCATION
- - - MILL LINE
- - - CROSS CULVERT
- ▒ MAINLINE 2" MILL AREA
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- R / W



NO	DATE	BY	CKD	APPR	REVISION	
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HIGHWAY DEPT.**

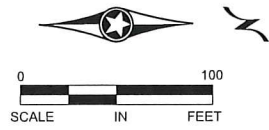
COUNTY PROJECT 18-25-84

**CONSTRUCTION PLAN**

STA 80+00 TO 109+00

Sheet 10 of 17 Sheets

DLDiers



END CONSTRUCTION  
CP: 18-25-84  
STATION: 125+00

8.5" BIT PAVEMENT  
6.0" EXISTING AGG. BASE

CR 84

115

120

125

# 2201

MATCH LINE 109+00

LACASSE DR.

**LEGEND**

- (B) BITUMINOUS
- (C) CONCRETE
- (G) GRAVEL
- (+) CORE LOCATION
- - - SAWCUT / MILL
- - - - - CROSS CULVERT
- [Solid Grey Box] MAINLINE 2" MILL AREA
- [Hatched Box] STREET APPROACH 2" MILL AREA
- R / W

NO	DATE	BY	CKD	APPR	REVISION	
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COUNTY PROJECT 18-25-84

**CONSTRUCTION PLAN**  
STA 109+00 TO 125+00  
Sheet 11 of 17 Sheets

**PERMANENT PAVEMENT MARKING PLAN**  
NOTES AND GUIDELINES

**GENERAL INFORMATION:**

THE ENGINEER'S INVOLVEMENT IN THE APPLICATION OF THE MATERIAL SHALL BE LIMITED TO FIELD CONSULTATION AND INSPECTION. ANOKA COUNTY HIGHWAY DEPARTMENT WILL PLACE NECESSARY "SPOTTING" AT APPROPRIATE POINTS TO PROVIDE HORIZONTAL CONTROL FOR STRIPING AND TO DETERMINE NECESSARY STARTING AND CUTOFF POINTS, LONGITUDINAL JOINTS, PAVEMENT EDGES AND EXISTING MARKINGS MAY SERVE AS HORIZONTAL CONTROL WHEN SO DIRECTED.

EDGE LINES AND LANE LINES ARE TO BE BROKEN ONLY AT INTERSECTIONS WITH PUBLIC ROADS AND AT PRIVATE ENTRANCES IF THEY ARE CONTROLLED BY A YIELD SIGN, STOP SIGN OR TRAFFIC SIGNAL. THE BREAK POINT IS TO BE AT THE START OF THE RADIUS FOR THE INTERSECTION OR AT MARKED STOP LINES OR CROSSWALKS.

A TOLERANCE OF 1/4 INCH UNDER OR 1/4 INCH OVER THE SPECIFIED WIDTH WILL BE ALLOWED FOR STRIPING PROVIDED THE VARIATION IS GRADUAL AND DOES NOT DETRACT FROM THE GENERAL APPEARANCE. BROKEN LINE SEGMENTS MAY VARY UP TO ONE-HALF FOOT FROM THE SPECIFIED LENGTHS PROVIDED THE OVER AND UNDER VARIATIONS ARE REASONABLY COMPENSATORY. ALIGNMENT DEVIATIONS FROM THE CONTROL GUIDE SHALL NOT EXCEED 1 INCH. MATERIAL SHALL NOT BE APPLIED OVER LONGITUDINAL JOINTS, ESTABLISHMENT OF APPLICATION TOLERANCES SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COMPLY AS CLOSELY AS PRACTICABLE WITH THE PLANNED DIMENSIONS.

**EPOXY:**

THE ROAD SURFACE SHALL BE CLEANED AT THE DIRECTION OF THE ENGINEER JUST PRIOR TO APPLICATION. PAVEMENT CLEANING SHALL CONSIST OF AT LEAST BRUSHING WITH A ROTARY BROOM (NON-METALLIC) OR AS RECOMMENDED BY THE MATERIAL MANUFACTURER AND ACCEPTABLE TO THE ENGINEER. NEW PORTLAND CEMENT CONCRETE SURFACES SHALL BE SANDBLAST CLEANED TO REMOVE ANY SURFACE TREATMENT AND/OR LAITANCE ON LOW SPEED (SPEED LIMIT 35 MPH OR LESS) URBAN PORTLAND CEMENT CONCRETE ROADWAYS. SANDBLAST CLEANING SHALL BE USED FOR ALL EPOXY PAVEMENT MARKINGS.

THE EPOXY MARKING APPLICATION SHALL IMMEDIATELY FOLLOW THE PAVEMENT CLEANING. GLASS BEADS SHALL BE APPLIED IMMEDIATELY AFTER APPLICATION OF THE EPOXY RESIN LINE TO PROVIDE AN IMMEDIATE NO-TRACK SYSTEM.

AN EPOXY RESIN LINE 4" WIDE AND 15 MILL THICKNESS (WET), REQUIRES AN APPLICATION RATE OF ONE (1) GALLON OF COMPONENTS FOR 320 FEET OF LINE. GLASS BEADS SHALL BE APPLIED AT A POUND PER GALLON RATE SUFFICIENT TO ACHIEVE AN ACCEPTABLE NO-TRACK SYSTEM.

OPERATIONS SHALL BE CONDUCTED ONLY WHEN THE ROAD PAVEMENT SURFACE TEMPERATURES ARE 50 DEGREES FAHRENHEIT OR GREATER.

PERMANENT PAVEMENT MARKINGS SHALL NOT BE PLACED OVER TEMPORARY TAPE MARKINGS.

**PREFORMED THERMOPLASTIC:**

THE PREFORMED THERMOPLASTIC MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS ON CLEAN AND DRY SURFACES. SEE SPECIAL PROVISIONS FOR PREFORMED THERMOPLASTIC MARKING SPECIFICATIONS.

**PAINT:**

AT THE TIME OF APPLYING THE MARKING MATERIAL, THE APPLICATION AREA SHALL BE FREE OF CONTAMINATION. THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE PRIOR TO THE LINE APPLICATION IN A MANNER AND TO THE EXTENT REQUIRED BY THE ENGINEER.

GLASS BEADS SHALL BE APPLIED IMMEDIATELY AFTER APPLICATION OF THE PAINT LINE.

EXCEPT WHEN USED AS A TEMPORARY MARKING, PAVEMENT MARKINGS SHALL ONLY BE APPLIED IN SEASONABLE WEATHER WHEN AIR TEMPERATURE IS 50 DEGREES FARHENHEIT OR HIGHER AND SHALL NOT BE APPLIED WHEN THE WIND OR OTHER CONDITIONS CAUSE A FILM OR DUST TO BE DEPOSITED ON THE PAVEMENT SURFACE AFTER CLEANING AND BEFORE THE MARKING MATERIAL CAN BE APPLIED.

THE FILLING OF TANKS, POURING OF MATERIALS OR CLEANING OF EQUIPMENT SHALL NOT BE PERFORMED ON UNPROTECTED PAVEMENT SURFACES UNLESS ADEQUATE PROVISIONS ARE MADE TO PREVENT SPILLAGE OF MATERIAL.

PERMANENT MARKING QUANTITIES		
ITEM	UNIT	TOTAL QUANTITY
4" SOLID LINE WHITE - EPOXY PAINT	LIN FT	22800
4" SOLID LINE YELLOW - EPOXY PAINT	LIN FT	2070
4" BROKEN LINE YELLOW - EPOXY PAINT	LIN FT	1220
4" DOUBLE SOLID LINE YELLOW - EPOXY PAINT	LIN FT	5235

**SYMBOLS & MATERIALS LEGEND**

■ CROSSWALK BLOCK WHITE PREFORMED THERMOPLASTIC

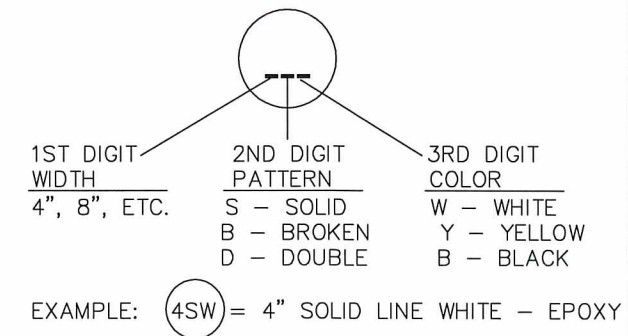
← PAVEMENT MESSAGE (LEFT ARROW) PREFORMED THERMOPLASTIC

**STRIPING KEY**

○ CIRCLE - EPOXY      □ SQUARE PREFORMED THERMOPLASTIC

△ TRIANGLE - PAINT

⬠ PENTAGON - REMOVABLE PREFORMED PLASTIC MARKING

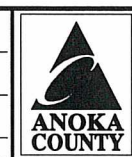


NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\16-01-00\CR 60\Base\TRAFFIC\Perm pvmt mrkg guide notes\_guidelines.dwg

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: DOUGLAS W. FISCHER  
 SIGNATURE: *[Signature]*  
 DATE: 4/18/18 LICENSE NO. 20235

DRAWN BY: RLB DATE: 1/30/18  
 DESIGN BY: RLB DATE: 1/30/18  
 CHECKED BY: JR DATE: 1/30/18

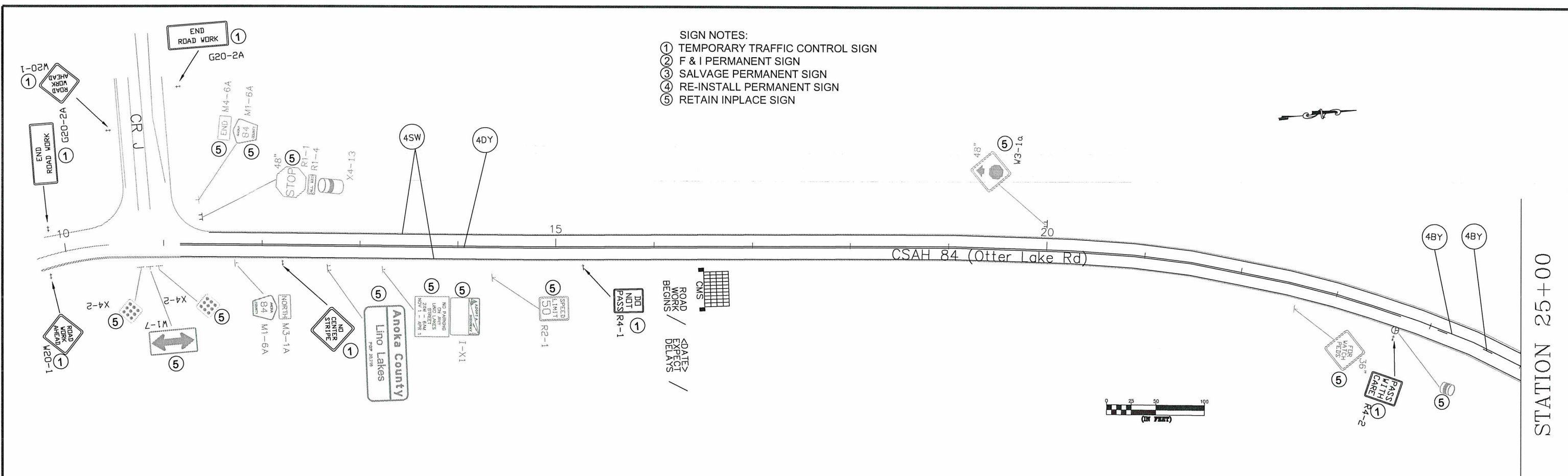


ANOKA COUNTY  
HIGHWAY DEPT.

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 STATE AID PROJECT NO. \_\_\_\_\_  
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 COUNTY PROJECT NO. 18-25-84

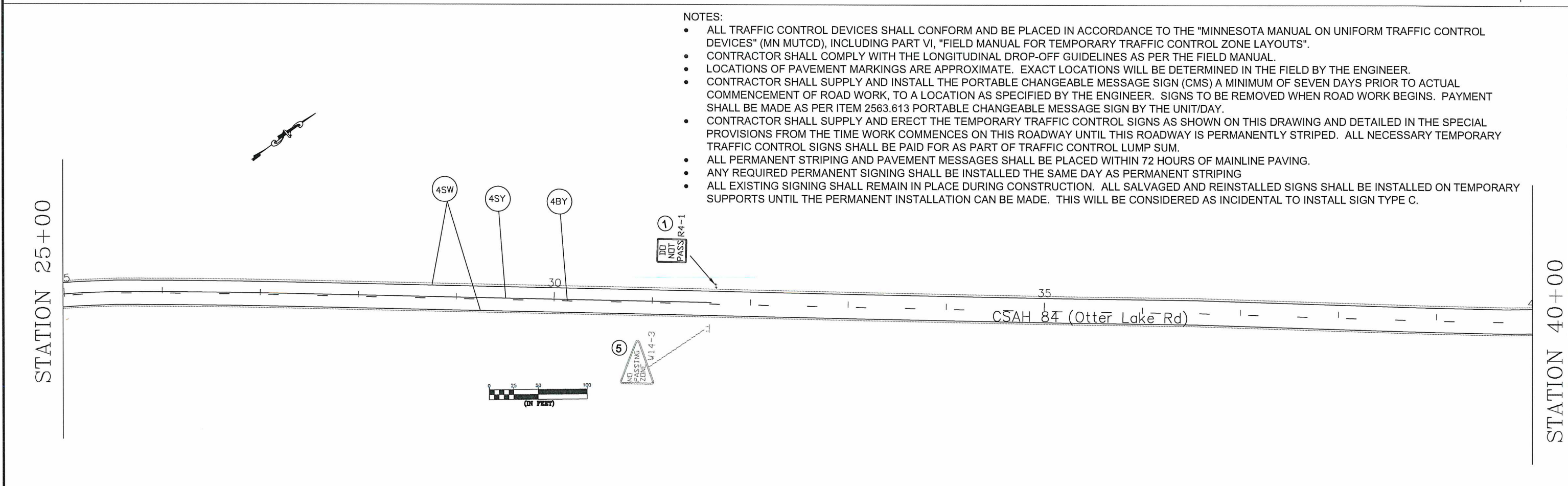
PERMANENT MARKING  
TABULATION  
 Sheet 12 of 17 Sheets

- SIGN NOTES:
- ① TEMPORARY TRAFFIC CONTROL SIGN
  - ② F & I PERMANENT SIGN
  - ③ SALVAGE PERMANENT SIGN
  - ④ RE-INSTALL PERMANENT SIGN
  - ⑤ RETAIN INPLACE SIGN



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NO	DATE	BY	CKD	APPR	REVISION

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SIGNATURE: *[Signature]*

DATE: 4/18/18 REG. NO. 20235

DRAWN BY: RLB DATE: 1/22/18

DESIGN BY: RLB DATE: 1/22/18

CHECKED BY: JR DATE: 1/22/18

**ANOKA COUNTY**  
HIGHWAY DEPT.

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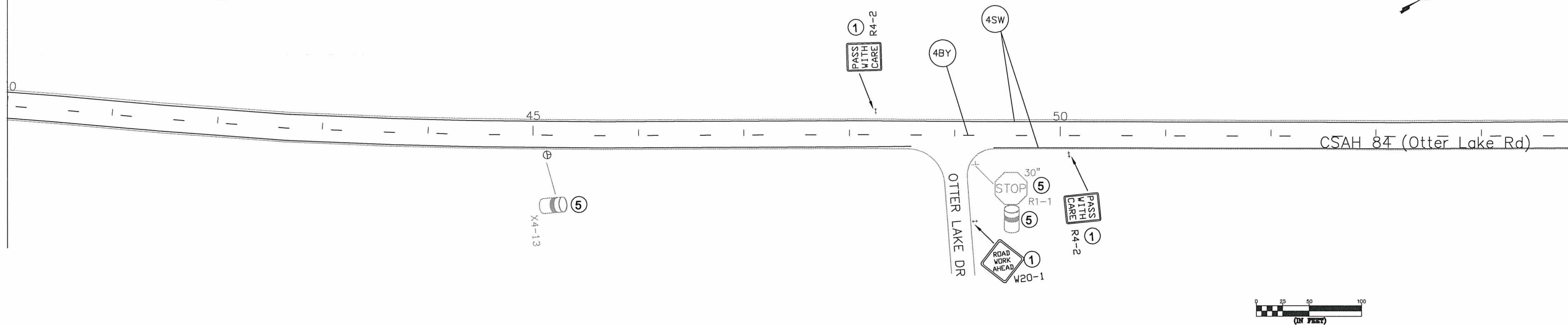
COUNTY PROJECT NO. 18-25-84

TEMPORARY SIGNING,  
PERMANENT SIGNING  
AND STRIPING

Sheet 13 of 17 Sheets

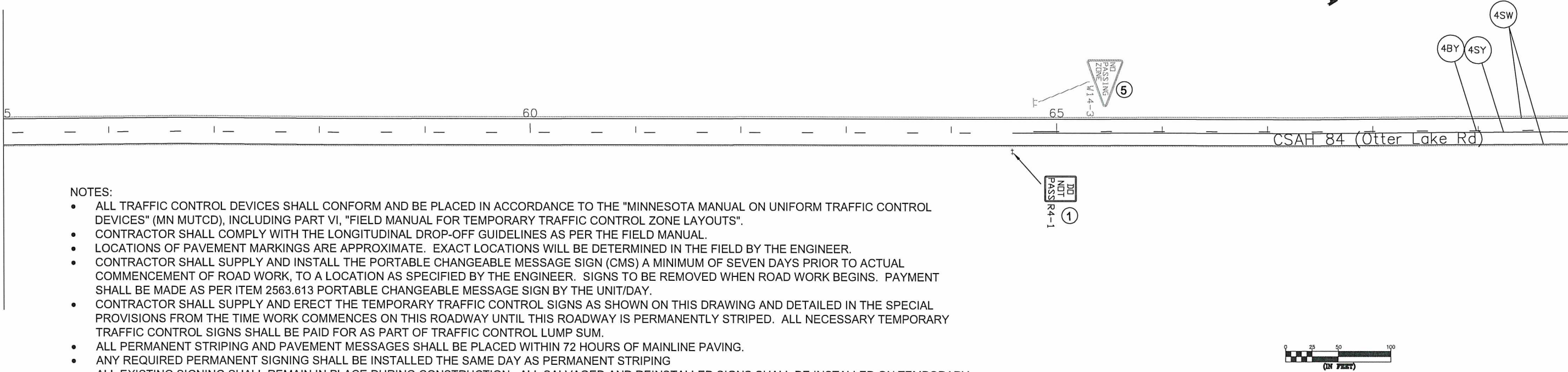
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STATION 40+00



STATION 55+00

STATION 55+00



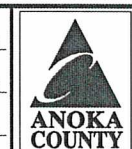
STATION 70+00

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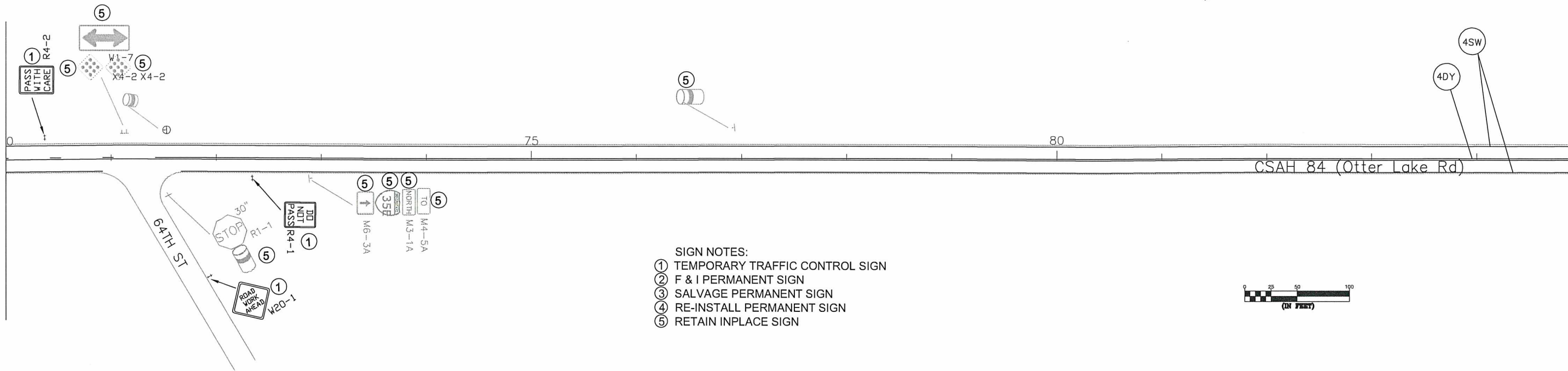
STATE PROJECT NO. \_\_\_\_\_  
 STATE AID PROJECT NO. \_\_\_\_\_  
 STATE AID PROJECT NO. \_\_\_\_\_  
 COUNTY PROJECT NO. 18-25-84

TEMPORARY SIGNING,  
 PERMANENT SIGNING  
 AND STRIPING  
 Sheet 14 of 17 Sheets

NO	DATE	BY	CKD	APPR	REVISION

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STATION 70+00



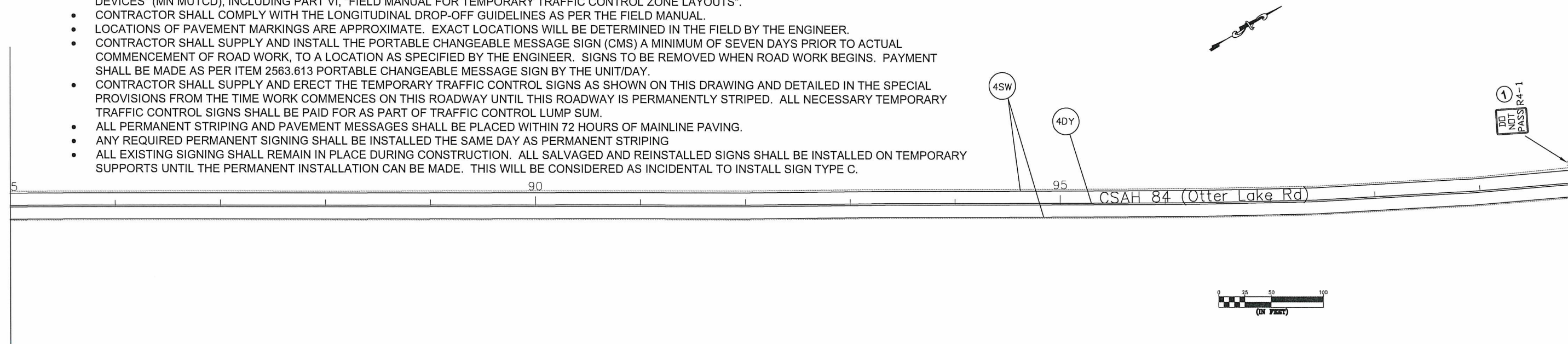
STATION 85+00

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STATION 85+00



STATION 100+00

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ANOKA COUNTY  
HIGHWAY DEPT.

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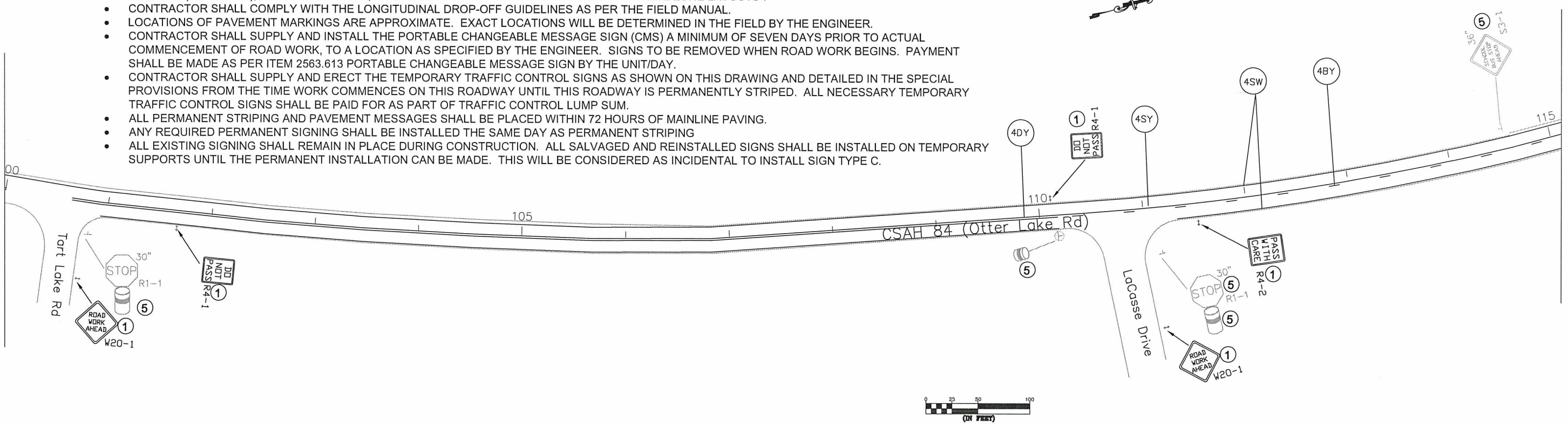
COUNTY PROJECT NO. 18-25-84

TEMPORARY SIGNING,  
PERMANENT SIGNING  
AND STRIPING

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STATION 100+00

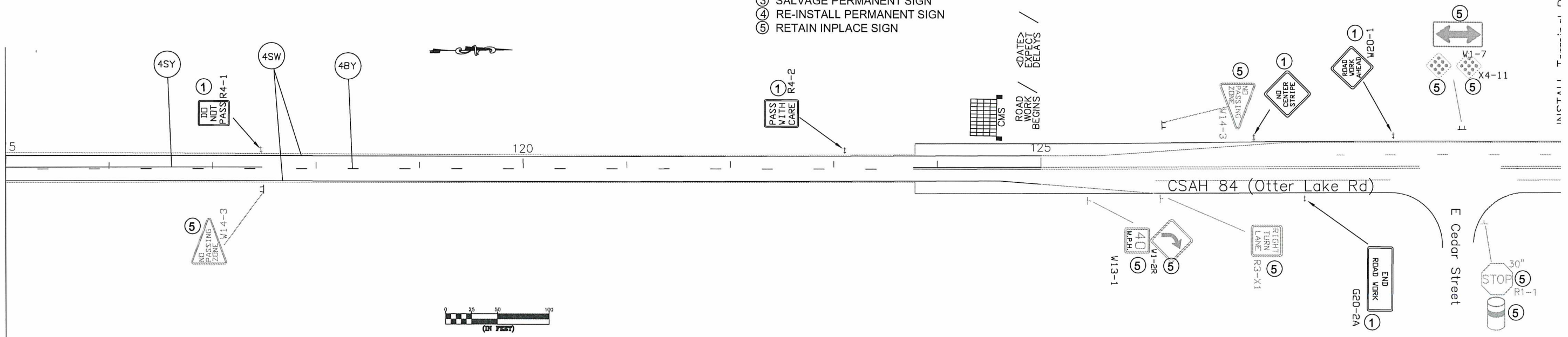


STATION 115+00

SIGN NOTES:

- ① TEMPORARY TRAFFIC CONTROL SIGN
- ② F & I PERMANENT SIGN
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STATION 115+00



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ANOKA COUNTY  
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TEMPORARY SIGNING,  
 PERMANENT SIGNING  
 AND STRIPING  
 Sheet 16 of 17 Sheets



TEMPORARY TRAFFIC CONTROL SIGNS

M.U.T.C.D. CODE	SIZE	PANEL AREA	INSERT	QUANTITY	No. POST	MOUNTING HEIGHT (TO PAVEMENT EDGE)
		FT. <sup>2</sup>				FT.
W8-12	48" x 48"	16.00		2	2	7.0'
R4-1	24" x 30"	5.00		8	1	7.0'
R4-2	24" x 30"	5.00		6	1	7.0'
G20-2A	48" x 24"	8.00		3	2	7.0'
W8-1A	48" x 48"	16.00		AS NEEDED		
W8-1A	48" x 48"	16.00		AS NEEDED		
W8-8	48" x 48"	16.00		AS NEEDED		
W8-9	48" x 48"	16.00		AS NEEDED		
	48" x 48"	16.00		AS NEEDED		
W8-11	48" x 48"	16.00		AS NEEDED		
W20-1	48" x 48"	16.00		AS NEEDED (ESTIMATED 7)		
CMS sign to be installed a minimum of ten days prior to actual commencement of road work. Signs to be removed when road work begins.				2		

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CHANGEABLE MESSAGE BOARD - MESSAGE SEQUENCE LAYOUT

		R	O	A	D		
		W	O	R	K		
		B	E	G	I	N	S

	<	D	A	T	E	>	
	E	X	P	E	C	T	
	D	E	L	A	Y	S	

CMS sign to be installed a minimum of ten days prior to actual commencement of road work. Signs to be removed when road work begins.

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\16-01-00\CR 60\base\Traffic\Signing\_Striping.dwg

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TRAFFIC CONTROL QUANTITY  
 Sheet 17 of 17 Sheets