#### **GOVERNING SPECIFICATIONS** MINNESOTA DEPARTMENT OF TRANSPORTATION THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. **ANOKA COUNTY** ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE CONSTRUCTION PLAN FOR \_ BITUMINOUS SURFACING AND BITUMINOUS RECLAMATION THIS PLAN CONTAINS 11 SHEETS \_\_\_\_ AND \_\_600' SOUTH OF FORD BROOK CSAH 24 (NORRIS LAKE RD) LOCATED ON\_ BETWEEN\_ **INDEX** CR66 (CLEARY ROAD NW) SHEET NO. DESCRIPTION GROSS LENGTH -EXCEPTIONS-LENGTH -TITLE SHEET NET LENGTH STATEMENT OF ESTIMATED QUANTITIES TYPICAL SECTIONS END CP 24-16-66 **DETAILS** CR 66, STA: 57+65.22 CONSTRUCTION PLAN PERMANENT PAVEMENT MARKING NOTES AND TABULATIONS LAKE RD NORRIS NW 22100 TEMPORARY SIGNING AND PERMANENT STRIPING 9 - 11 Ekstrom Lake ınaker ke 218TH AVE NW FORDBROOK EN ST NW 215TH **AVE NW** LITHIUM ST NW BEGIN CP 24-16-66 NW TH AVE CR 66, STA: 10+65.00 21300 212TH AVE NW PROJECT LOCATION CITY OF NOWTHEN DESIGN DESIGNATION (CR 66) ANOKA COUNTY ESAL 20 FUNCTIONAL CLASSIFICATION MAJOR COLLECTOR MN/DOT TRANSPORTATION DISTRICT - METRO **R VALUE** NO. OF TRAFFIC LANES 2 NO. OF PARKING LANES 0 588 ADT (2022) DESIGN SPEED 55 MPH SECTION 2, 11 588 PROJ. ADT (2044) STOPPING SIGHT DISTANCE BASED ON: **TOWNSHIP 33 NORTH** 35 HEIGHT OF EYE 3.5' HEIGHT OF OBJECT 2.0' PROJ. HCADT (2044) Approved. DESIGN SPEED NOT ACHIEVED AT: SOIL FACTOR RANGE 25 WEST ANOKA COUNTY ENGINEER 10 TON DESIGN OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY AWN BY \_\_\_\_DBK \_\_\_ DATE \_\_12/15/2023 **ANOKA COUNTY** TITLE SHEET LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. HIGHWAY DEPT. SIGNATURE: LICENSE NO. \_\_26511 DATE BY CKD APPR REVISION 12:20:26 PM 12/15/2023 HECKED BY \_\_\_\_\_CO \_\_\_ DATE \_12/15/2023 Sheet 1 of 11 Sheets COUNTY PROJECT 24-16-66 DATE: 12-08-2023

			STATEMENT OF ESTIMATED QUANTI	TIES	
Notes	Item Number	Code	ITEM DESCRIPTION	Unit	TOTAL PROJECT QUANTITIES ESTIMATED
	2021.501	00010	MOBILIZATION	LUMP SUM	1
1	2104.503	00205	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	27
1,2	2104.504	00110	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	117
3	2123.510	00020	MOTOR GRADER	HOUR	20
4	2130.523	00010	WATER	M GALLON	20
5	2211.509	00070	AGGREGATE BASE CLASS 5	TON	242
6	2215.504	00010	FULL DEPTH RECLAMATION	SQ YD	12914
7	2215.507	00010	HAUL FULL DEPTH RECLAMATION (LV)	CU YD	90
8	2221.509	08000	SHOULDER BASE AGGREGATE CLASS 5	TON	376
9	2232.604	00470	MILL BITUMNOUS PAVEMENT (SPECIAL)	SQ YD	58
	2357.506	00010	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	734
10	2360.509	13200	TYPE SP 9.5 WEARING COURSE MIXTURE (3;B)	TON	12
11	2360.509	24300	TYPE SP 12.5 WEARING COURSE MIXTURE (4;C)	TON	3379
12	2540.602	00150	MAIL BOX SUPPORT	EACH	12
	2563.601	00001	TRAFFIC CONTROL SUPERVISOR	LUMP SUM	1
13,14	2563.601	00010	TRAFFIC CONTROL	LUMP SUM	1
15	2563.613	01100	PORTABLE CHANGEABLE MESSAGE SIGN	UNIT DAY	20
19	2574.507	00100	COMMON TOPSOIL BORROW	CU YD	495
16	2575.508	40003	HYDRAULIC REINFORCED FIBER MATRIX	POUND	147
17	2581.503	00010	REMOVABLE PREFORMED PAVEMENT MARKING TAPE	LIN FT	188
18	2582.503	30104	4" SOLID LINE MULTI-COMPONENT	LIN FT	11555
18	2582.503	30204	4" BROKEN LINE MULTI-COMPONENT	LIN FT	829
18	2582.503	30404	4" DOUBLE SOLID LINE MULTI-COMPONENT	LIN FT	505

THE FOLL	THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION,							
	SHALL APPLY ON THIS PROJECT							
	MNDOT STANDARD PLATES							
PLATE NO.	DESCRIPTION							
8000K	8000K TEMPORARY CHANNELIZERS (3 SHEETS)							
9350B	9350B MAILBOX SUPPORT - SWING-AWAY TYPE							

SUPERELEVATION CORRECTION TAB 1								
STATION	POINT	LEFT GRADE	RIGHT GRADE					
10+65	MATCH EXISTING	-1.2%	-0.7%					
11+00		-0.1%	-0.7%					
11+25	BEG RT TRANS	0.7%	-0.7%					
11+50		1.4%	-1.4%					
12+00		3.0%	-3.0%					
12+05	PC	3.2%	-3.2%					
12+50	BEG LT/RT FULL SUPER	4.5%	-4.5%					
13+00		4.5%	-4.5%					
13+50		4.5%	-4.5%					
14+00		4.5%	-4.5%					
14+50		4.5%	-4.5%					
15+00		4.5%	-4.5%					
15+50		4.5%	-4.5%					
16+00	END LT/RT FULL SUPER	4.5%	-4.5%					
16+20	PT	3.9%	-3.9%					
16+50		3.0%	-3.0%					
16+85	END RT TRANS	2.0%	-2.0%					
17+00		1.5%	-2.0%					
17+50		0.0%	-2.0%					
18+00		-1.5%	-2.0%					
18+15	END LT TRANS	-2.0%	-2.0%					
18+50		-2.0%	-2.0%					

SUPERELEVATION CORRECTION TAB 2									
STATION POINT LEFT GRADE RIGHT GRAD									
53+50	BEG RT TRANS	-2.0%	-2.0%						
54+00		-2.0%	-0.5%						
54+50		-2.0%	1.0%						
54+80	BEG LT TRANS	-2.0%	2.0%						
55+00		-2.5%	2.5%						
55+15	PC	-3.0%	3.0%						
55+50	BEG LT/RT FULL SUPER	-4.0%	4.0%						
56+00		-4.0%	4.0%						
56+50	END LT/RT FULL SUPER	-4.0%	4.0%						
57+00		-2.5%	2.5%						
57+50		-1.0%	1.0%						
57+58	PT	-0.9%	0.7%						
57+65	MATCH EXISTING	-0.8%	0.4%						

2

3

4

5

6

8

9 10

11

12

13

14

15

16

17

18

19

	BASIS OF PLANNED QUANTITIES								
2357	BITUMINOUS MATERIAL FOR TACK COAT	0.05 GAL / SQ YD							
2211	AGGREGATE BASE CLASS 5	1.8 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							
2575	HYDRAULIC REINFORCED FIBER MATRIX	3900 LBS./ ACRE							

								I HEREBY CERTIFY THAT OR UNDER MY DIRECT SU LICENSED PROFESSIONAL THE STATE OF MINNESOT
								PRINT NAME:
								SIGNATURE:
NO	DATE	BY	CKD	APPR	REVISION	01/09/2024	4:11:19 PM	40.00.0000
NAME:	P:\24-01-00\CR_6	6_(NORRI	S LAKE RE	TO 4300	S. NORRIS LAKE R	D)\Base\Proposed\SEQ.dgn		DATE:12-08-2023

IHEREBY 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:

SIGNATURE:

DATE: 12-08-2023 LICENSE NO. 26511

CHECKED BY \_\_\_\_CO\_\_ DATE \_12/15/202



ANOKA COUNTY HIGHWAY DEPT. STATEMENT OF ESTIMATED QUANTITIES

COUNTY PROJECT \_\_\_\_\_24-16-66

**CONSTRUCTION NOTES** 

ITEM FOR BITUMINOUS DRIVEWAYS AND STREET APPROACHES. CONTRACTOR IS RESPONSIBLE FOR CONTACTING

ITEM USED TO MOVE EXCESS RECLAIM MATERIAL AT THE RECLAIM AREA LIMITS TO CREATE A SMOOTH TRANSITION

BETWEEN THE PROPOSED AND EXISTING PAVEMENT AND FOR SUPER ELEVATION/GRADE CORRECTION AREAS.

GRAVEL BASE FOR CONCRETE AND BITUMINOUS STREET APPROACHES AND DRIVEWAYS. ITEM ALSO FOR

TO BE USED FOR MILLING STREET APPROACHES AND/OR DETAIL MILLING AREAS AS IDENTIFIED IN THE PLAN.

ITEM FOR BITUMNOUS DRIVEWAYS. DRIVEWAYS SHALL BE PAVED AFTER MAINLINE AND BEFORE FINAL STRIPING.
CONTRACTOR IS RESPONSIBLE FOR CONTACTING PROPERTY OWNER 48 HOURS BEFORE STARTING OPERATION.

MAILBOXES ARE TO BE INSTALLED AT THE EXISTING MAILBOX LOCATION OR AS DIRECTED BY THE LOCAL POSTAL AUTHORITY, CONTRACTOR IS RESPONSIBLE FOR CONTACTING. MAILBOX REMOVAL AND ALL MATERIALS ARE

CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN TEMPORARY SIGNAGE WHENEVER EXISTING SIGNAGE IS

TYPE 3 FERTILIZER AND TYPE 25-121 SEED ARE INCIDENTAL TO THIS ITEM. SEE "BASIS OF PLANNED QUANTITIES"

FINAL STRIPING SHALL BE INSTALLED WITHIN 72 HOURS OF COMPLETION OF MAINLINE WEAR COURSE PAVING.

CENTERLINE AND LANE DESIGNATION SKIPS TO BE APPLIED AS SOON AS POSSIBLE ON MILLED SURFACE AND EACH

ITEM USED FOR INSLOPE SHAPING FROM GRAVEL SHOULDER TO DITCH BOTTOM AS DIRECTED BY THE ENGINEER.

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

2 MESSAGE BOARDS, ONE ON THE EACH END OF PROJECT, SHALL BE INSTALLED 10 DAYS PRIOR TO ANY

NEW LIFT OF PAVEMENT; SKIPS MUST BE INPLACE BEFORE THE CONTRACTOR LEAVES FOR THE DAY.

THIS WORK INCLUDES SPREADING. WATERING, COMPACTING, SHAPING, AND MAINTAINING THE BLENDED

REFERENCE DETAILS (PAGE 4-5) FOR REMOVAL DETAILS

PERMANENT PAVEMENT MARKINGS ARE NOT PRESENT.

CONTRACTOR IS TO REMOVE PRIOR TO FINAL STRIPING.

CANNOT BE INSTALLED SOONER THAN 48 HOURS.

CONSTRUCTION; REFERENCE STRIPING PLAN FOR DETAILS.

SUPERELEVATION / GRADE CORRECTION.

INCIDENTAL TO INSTALLATION.

FOR APPLICATION RATES.

PROPERTY OWNER 48 HOURS BEFORE STARTING OPERATION.

WATER TO BE USE FOR DUST CONTROL AS DIRECTED BY THE ENGINEER.

RECLAIMED MATERIAL TO THE SPECIFIC PROFILE AND CROSS SECTION.

ITEM USED TO HAUL EXCESS RECLAIM FROM TIE-IN POINTS AND REUSED ON SITE

REMOVED. TEMPORARY SIGNAGE SHALL BE INCIDENTAL TO TRAFFIC CONTROL

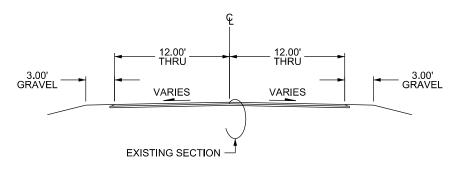
ITEM INCLUDES 7 TONS FOR EACH GRAVEL ENTRANCE AND GRAVEL STREET APPROACH.

Sheet 2 of 11 Sheets

# CR66 - Cleary Rd NW

EXISTING SECTION

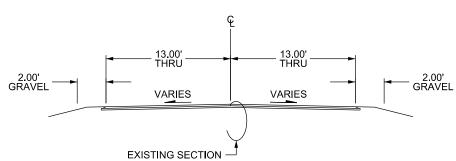
10+65.00 - 13+86.00



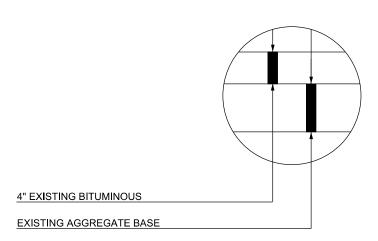
## CR66 - Cleary Rd NW

EXISTING SECTION

13+86.00 - 57+65.22

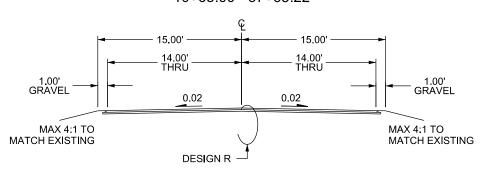


### **EXISTING SECTION**

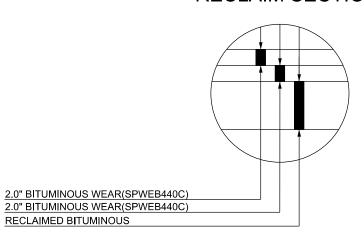


# CR66 - Cleary Rd NW PROPOSED SECTION

10+65.00 - 57+65.22



# DESIGN R RECLAIM SECTION



								1
								1
NO	DATE	BY	CKD	APPR	REVISION	12/15/2023	12:20:31 PM	
NAME:	P:\24-01-00\CR_6	66_(NORRI	S LAKE RE	TO 4300 :	S. NORRIS LAKE RD	)\Base\Proposed\TYPICALS.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:

GERALD J. AUGE JR.

SIGNATURE:

DATE:

12-08-2023

LICENSE NO. 26511

 DRAWN BY
 DBK
 DATE 12/15/2023

 DESIGN BY
 DBK
 DATE 12/15/2023

 CHECKED BY
 CO
 DATE 12/15/2023

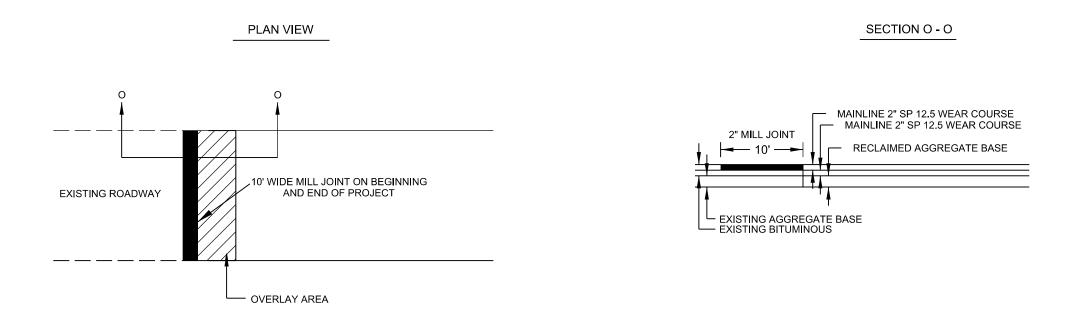


ANOKA COUNTY HIGHWAY DEPT. TYPICAL SECTIONS

COUNTY PROJECT 24-16-66

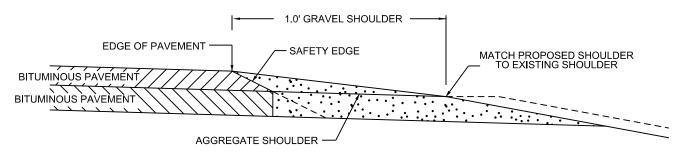
Sheet 3 of 11 Sheets

### MAINLINE JOINT DETAIL (RECLAIM)



### SHOULDER DETAIL

BITUMINOUS SAFETY EDGE GRAVEL SHOULDER



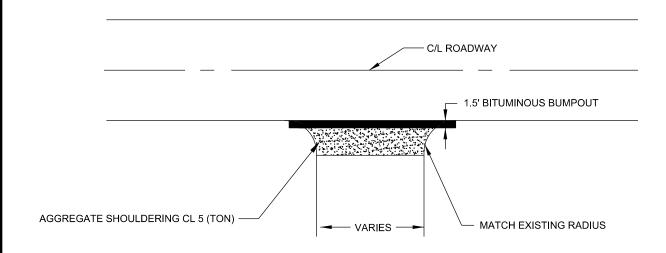
SAFETY EDGE TO BE USED IN ALL NON-CURB AREAS ON SHOULDER.

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

							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.	DRAWN BYDBK DATE _12/15/2023		ANOKA COUNTY			DETAILS
							PRINT NAME: GERALD J. AUGE JR.	DESIGN BYDBK DATE _12/15/2023					
NO NAM	DATE 24-01-00\CR_6	BY CKI 66_(NORRIS LAKE	APPR RD TO 4300	REVISION S. NORRIS LAKE RD)\B	12/15/2023 Base\Proposed\DETAILS.dgn	12:20:32 PM	SIGNATURE:	CHECKED BY <u>CO</u> DATE 12/15/2023	ANOKA COUNTY	HIGHWAY DEPT.	COUNTY PROJECT	24-16-66	Sheet 4 of 11 Sheets

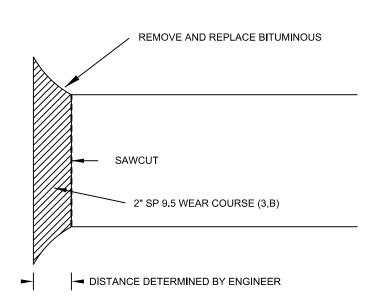
## DRIVEWAY DETAIL

GRAVEL / FIELD ENTRANCE

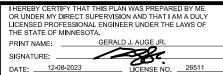


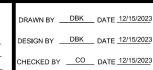
### RECLAIM AREA - DRIVEWAY DETAIL **BITUMINOUS**

PLAN VIEW



NO	DATE	BY	CKD	APPR	REVISION	12/15/2023	12:20:32 PM
NAME:	P:\24-01-00\CR_6	6_(NORR	S LAKE RE	TO 4300 S	S. NORRIS LAKE R	D)\Base\Proposed\DETAILS.dgn	



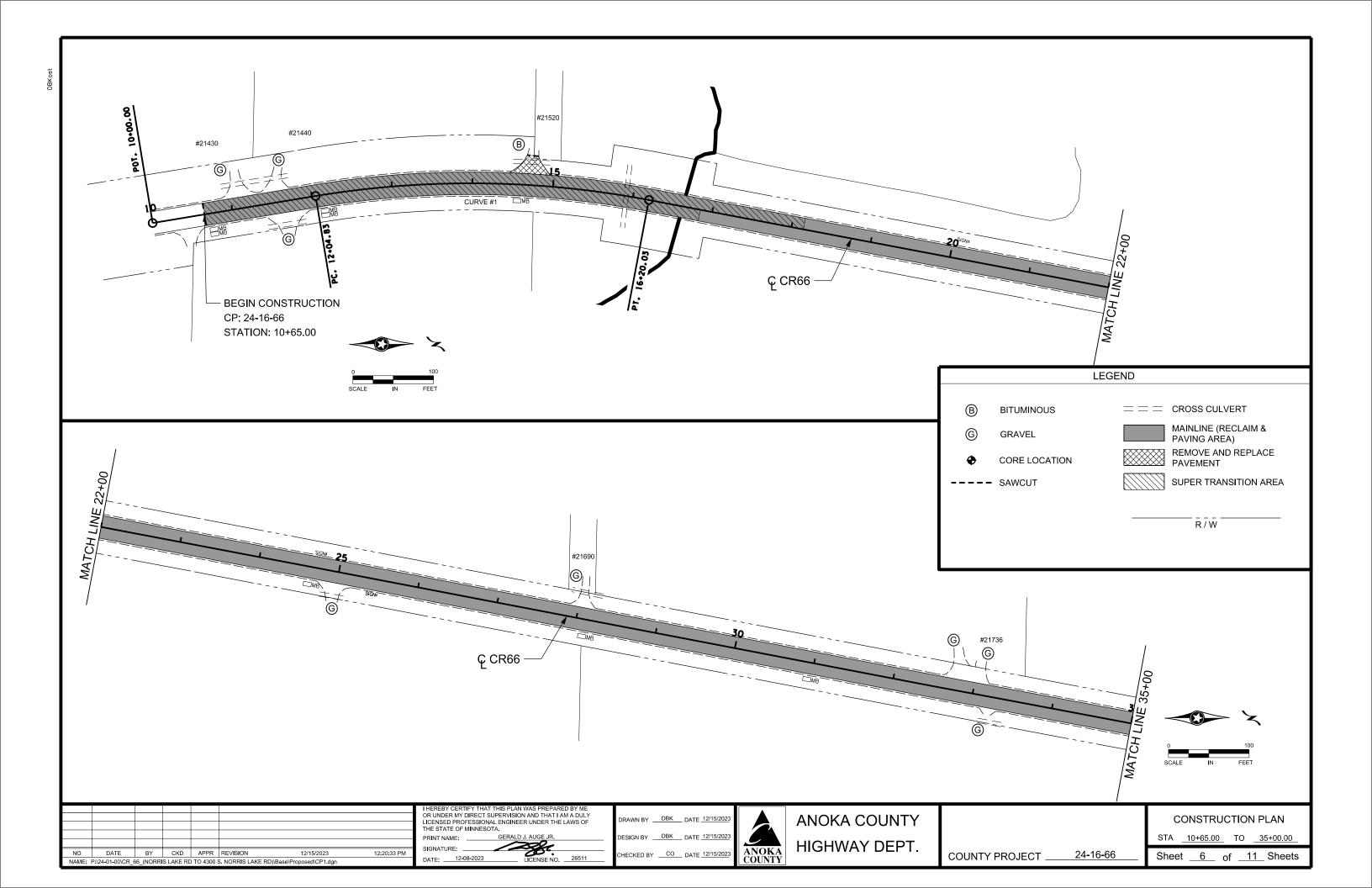


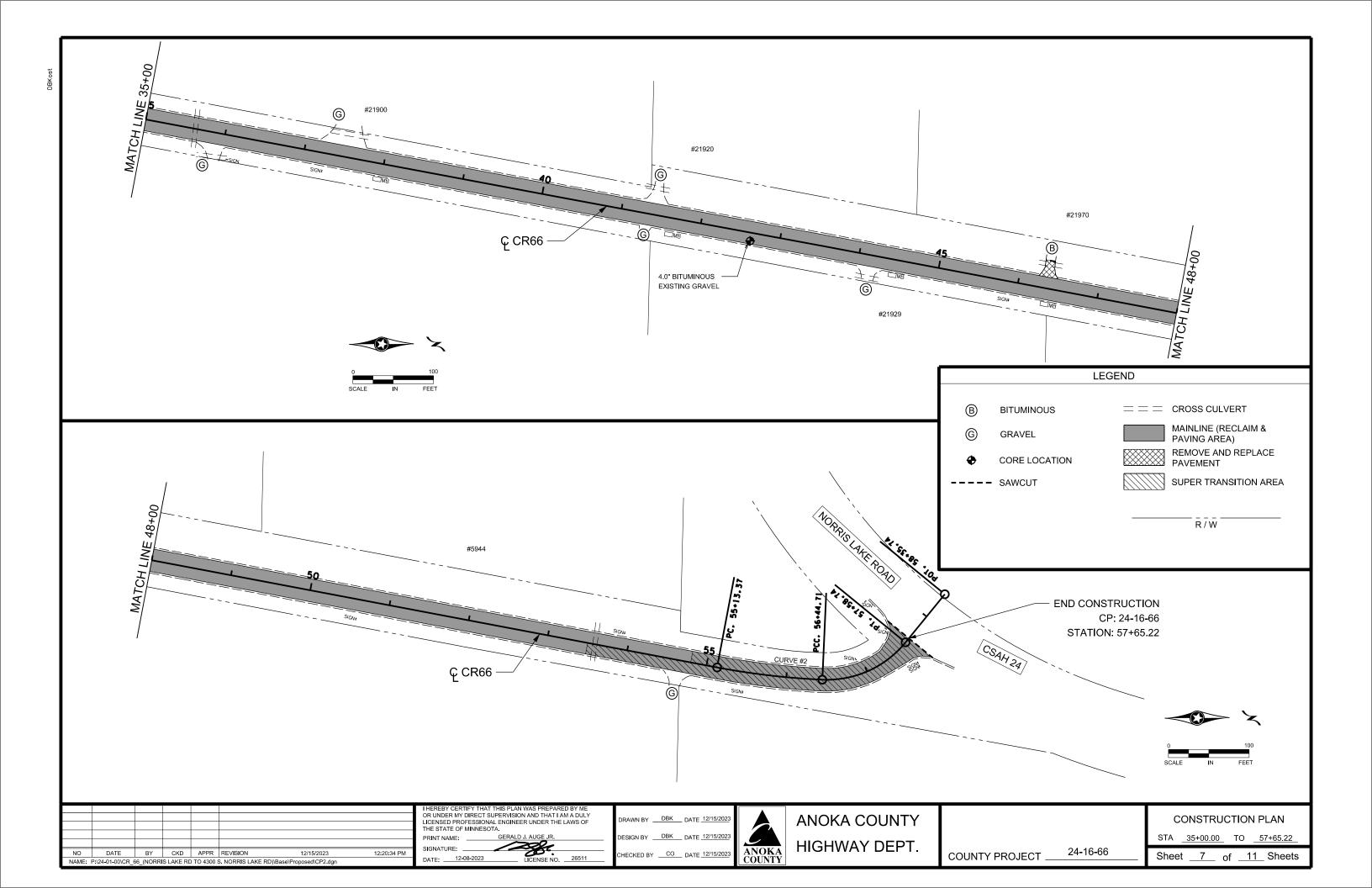


ANOKA COUNTY HIGHWAY DEPT. **DETAILS** 

24-16-66 COUNTY PROJECT .

Sheet <u>5</u> of <u>11</u> Sheets





# PERMANENT PAVEMENT MARKING PLAN NOTES & GUIDELINES

#### **GENERAL INFORMATION:**

- 1. 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.
- 2. 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.
- 4. PERMANENT PAVEMENT MARKINGS SHALL NOT BE PLACED OVER TEMPORARY TAPE MARKINGS.
- 5. 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.

#### **MULTI-COMPONENT (MULTI-COMP):**

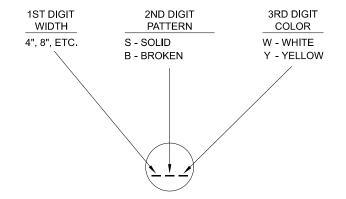
- 1. THE ROAD SURFACE SHALL BE CLEANED AT THE DIRECTION OF THE ENGINEER JUST PRIOR TO APPLICATION. PAVEMENT CLEANING SHALL CONSIST OF AT LEAST BRUSHING WITH A ROTARY BROOM (NON-METALLIC) OR AS RECOMMENDED BY THE MATERIAL MANUFACTURER AND ACCEPTABLE TO THE ENGINEER. NEW PORTLAND CEMENT CONCRETE SURFACES 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 MULTI-COMP PAVEMENT MARKINGS.
- 2. THE MULTI-COMP MARKING APPLICATION SHALL IMMEDIATELY FOLLOW THE PAVEMENT CLEANING. GLASS BEADS SHALL BE APPLIED IMMEDIATELY AFTER APPLICATION OF THE MULTI-COMP LINE TO PROVIDE AN IMMEDIATE NO-TRACK SYSTEM.
- 3. A MULTI-COMP LINE SHALL BE APPLIED WITH A MINIMUM THICKNESS OF 20 MILS (WET) AND 4" WIDE . GLASS BEADS SHALL BE APPLIED PER MANUFACTURER'S SPECIFICATIONS.
- 4. PAVEMENT MARKINGS SHALL ONLY BE APPLIED IN SEASONABLE WEATHER WHEN AIR AND PAVEMENT SURFACE TEMPERATURES ARE 40° 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.

#### PERMANENT STRIPING

PERMANENT PAVEMENT MARKING TABULATION							
ITEM DESCRIPITION	UNIT	TOTAL QUANTITY					
TIEW DESCRIPTION	CINIT	WHITE	YELLOW				
4" SOLID LINE MULTI-COMP	LIN FT	9362	2193				
4" SOLID DOUBLE LINE, MULTI-COMP	LIN FT		505				
4" BROKEN LINE MULTI-COMP	LIN FT		829				

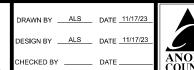
#### **PAVEMENT MARKING SYMBOLS & MATERIALS LEGEND**

BROKEN LINE - 50' CYCLE (10' LINE, 40' GAP)

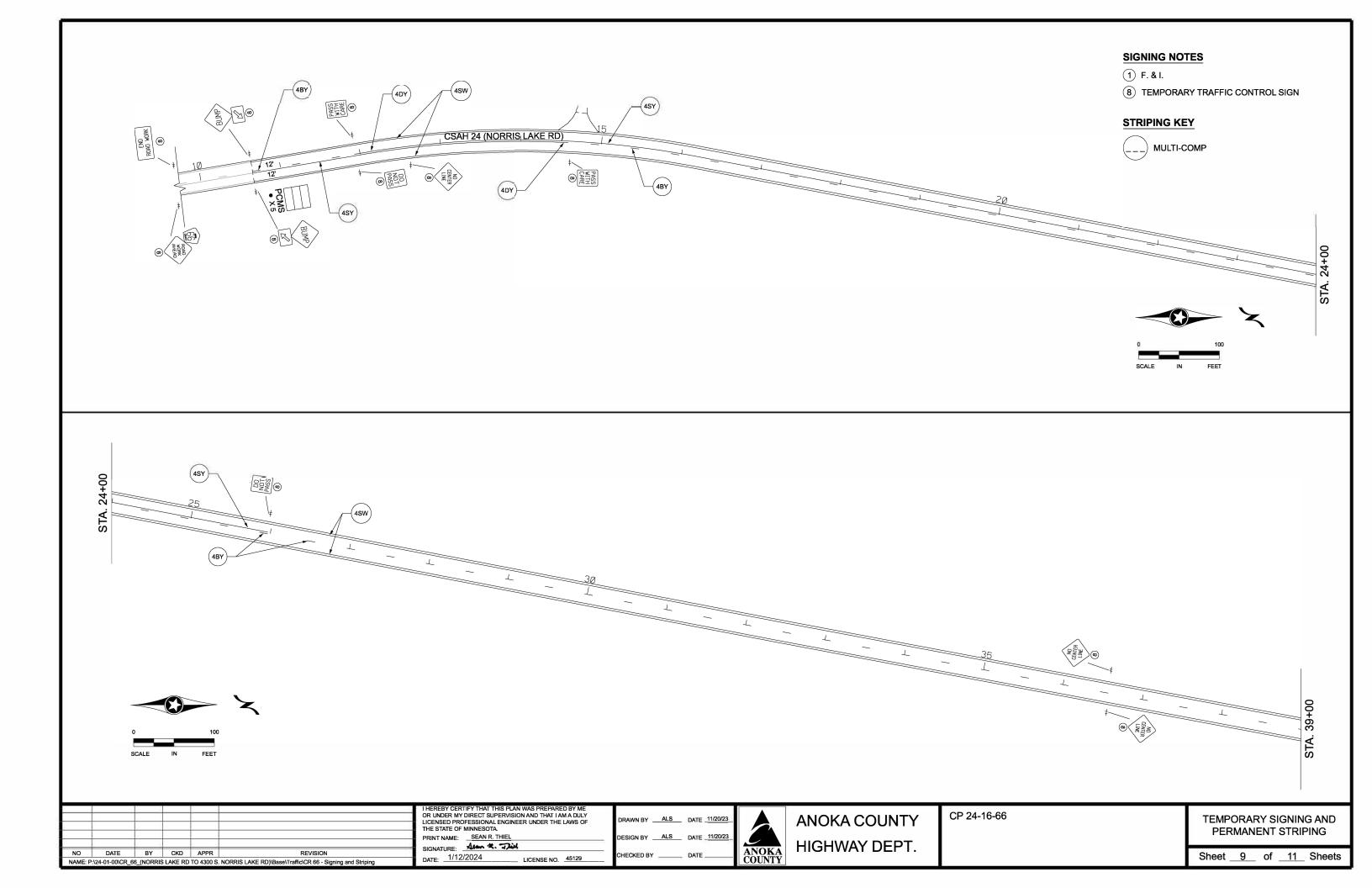


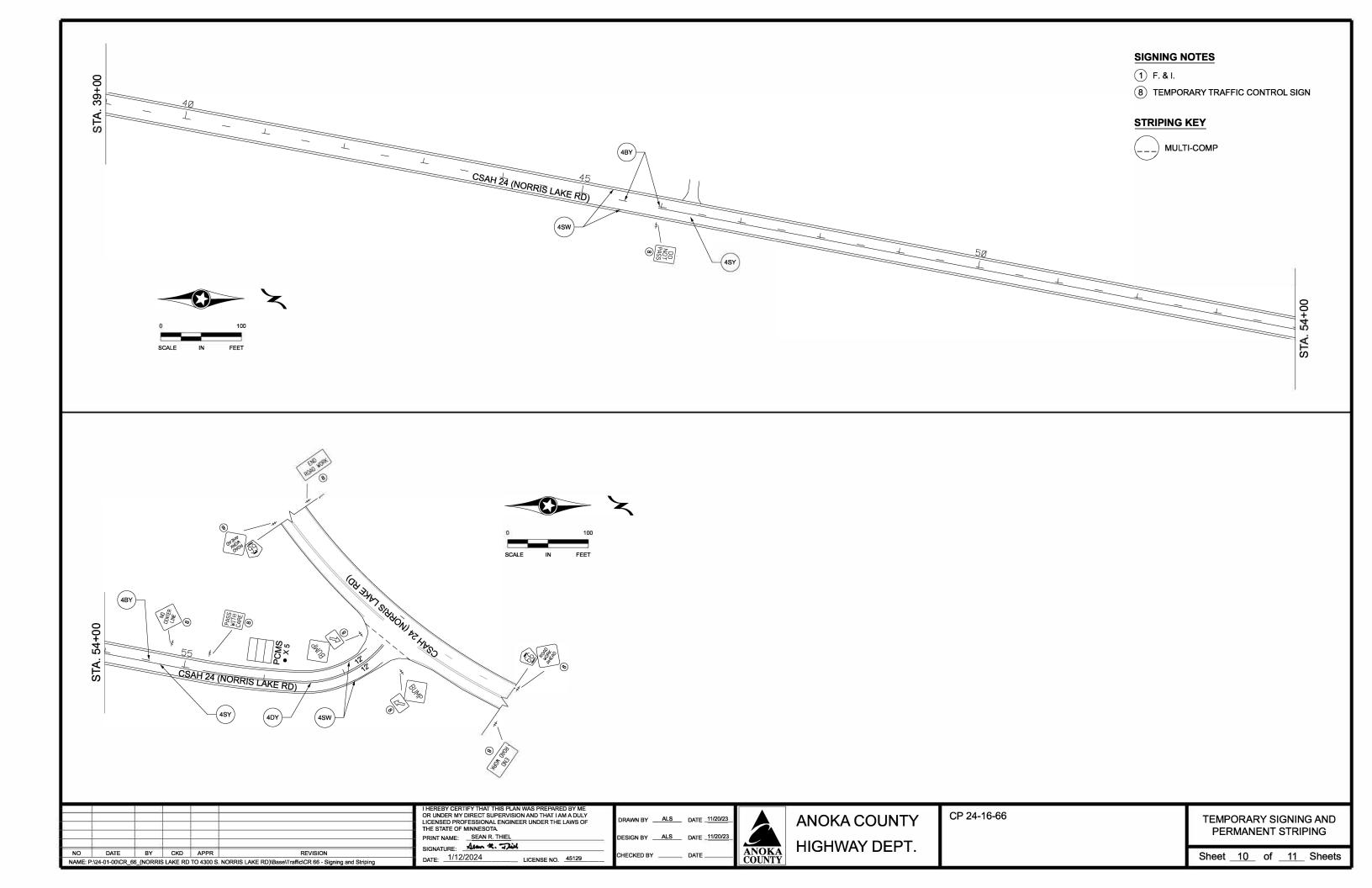
EXAMPLE: (4SW) = 4" SOLID LINE WHITE MULTI-COMP

					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: SEAN R. THIEL
					SIGNATURE: Alem R. This
DATE	BY	CKD	APPR	REVISION	4/40/0004
-01-00\CR_6	66_(NORRI	S LAKE RE	TO 4300 S	NORRIS LAKE RD)\Base\Traffic\CR 66 - Signing & Striping	DATE: 1/12/2024 LICENSE NO. 45129









#### **TEMPORARY TRAFFIC CONTROL SIGNS AND DEVICES**

"W" SERIES									
SIGN	MUTCD CODE	COLOR	SIZE	QUANTITY					
BE PREPARED TO STOP	W3-4	BLACK ON ORANGE	48" X 48"	AS NEEDED					
BUMP	W8-1	BLACK ON ORANGE	48" X 48"	4					
	W16-7PL	BLACK ON ORANGE	30" X 18"	4					
ROUGH	W8-8	BLACK ON ORANGE	48" X 48"	AS NEEDED					
SHOULDER	W8-9	BLACK ON ORANGE	48" X 48"	AS NEEDED					
UNEVEN	W8-11	BLACK ON ORANGE	48" X 48"	AS NEEDED					
NO CENTER LINE	W8-12	BLACK ON ORANGE	48" X 48"	4					
NO SHOULDER	W8-23	BLACK ON ORANGE	48" X 48"	AS NEEDED					
ROAD WORK AHEAD	W20-1	BLACK ON ORANGE	48" X 48"	AS NEEDED (ESTIMATED 3)					
ONE LANE ROAD AHEAD	W20-4	BLACK ON ORANGE	48" X 48"	AS NEEDED					
	W20-7	BLACK ON ORANGE	48" X 48"	AS NEEDED					

	"R" SERIES						
SIGN	MUTCD CODE	COLOR	SIZE	QUANTITY			
DO NOT PASS	R4-1	BLACK ON WHITE	24" X 30"	4			
PASS WITH CARE	R4-2	BLACK ON WHITE	24" X 30"	3			

"M" SERIES						
SIGN	MUTCD CODE	COLOR	SIZE	QUANTITY		
66 000	M1-6M	WHITE AND YELLOW ON BLUE	24 X 24	3		

"G" SERIES						
SIGN	MUTCD CODE	QUANTITY				
END ROAD WORK	G20-2	BLACK ON ORANGE	48" X 24"	3		

	DEVICES					
	ITEM	MUTCD CODE	QUANTITY			
		DRUM	AS NEEDED (ESTIMATED 10)			
(2)	PCMS	TYPE C	2 (10 DAYS EACH)			

#### **PCMS - MESSAGE SEQUENCE LAYOUT**

	R	0	Α	D		
	W	0	R	K		
В	Е	G	ı	N	s	

<	D	Α	Т	Ε	>	
E	х	Р	Е	С	Т	
D	Е	L	Α	Υ	s	

#### **NOTES:**

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."
- 2. ALL TYPE III BARRICADES SHALL BE REFLECTORIZED ON BOTH SIDES. BARRICADE MARKINGS SHALL BE SLANTED IN ACCORDANCE WITH THE MN MUTCD.
- 3. CONTRACTOR SHALL COMPLY WITH THE LONGITUDINAL DROP-OFF GUIDELINES AS PER THE FIELD MANUAL.
- I. LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 5. CONTRACTOR SHALL SUPPLY AND PLACE THE PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) A MINIMUM TEN DAYS PRIOR TO ACTUAL COMMENCEMENT OF ROAD WORK, TO A LOCATION AS SPECIFIED BY THE ENGINEER. SIGNS TO BE REMOVED WHEN ROAD WORK BEGINS. PAYMENT SHALL BE MADE AS PER ITEM 2563.613 PORTABLE CHANGEABLE MESSAGE SIGN BY THE UNIT/DAY.
- 6. CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING AND DETAILED IN THE SPECIAL PROVISIONS FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. ALL NECESSARY TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.
- ACCESS SHALL BE MAINTAINED TO ALL STREETS AND DRIVEWAYS IN CONSTRUCTION AREA.
- 3. ALL PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.
- ANY REQUIRED PERMANENT SIGNING SHALL BE INSTALLED THE SAME DAY AS PERMANENT STRIPING.
- 10. ALL EXISTING SIGNING SHALL REMAIN IN PLACE DURING CONSTRUCTION. ANY SALVAGED AND REINSTALLED SIGNS SHALL BE INSTALLED ON TEMPORARY SUPPORTS UNTIL THE PERMANENT INSTALLATION CAN BE MADE. THIS WILL BE CONSIDERED AS INCIDENTAL TO INSTALL SIGN TYPE C.

#### SIGNING NOTES

- (1) F. & I.
- 8 TEMPORARY TRAFFIC CONTROL SIGN

#### TRAFFIC CONTROL DEVICES & SYMBOLS LEGEND

PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

#### SYMBOL DESCRIPTION

- → TRAFFIC CONTROL SIGN (SINGLE POST)
- ++ TRAFFIC CONTROL SIGN (TEMPORARY)
- DRUM-LIKE CHANNELIZER TYPE B =

		6 3		7		
					Ţ,	
		li Ja				
NO	DATE	BY	CKD	APPR	REVISION	
NAME: P:\24-01-00\CR 66 (NORRIS LAKE RD TO 4300 S. NORRIS LAKE RD)\Base\Traffic\CR 66 - Signing and Striping						

PRINT NAME: SEAN R. THIEL

SIGNATURE: ALM R. THIEL

DATE: 1/12/2024 LICENSE NO. 45129

 DRAWN BY
 ALS
 DATE
 11/20/23

 DESIGN BY
 ALS
 DATE
 11/20/23

 CHECKED BY
 DATE
 DATE



ANOKA COUNTY HIGHWAY DEPT. CP 24-16-66

TEMPORARY SIGNING NOTES
AND TABULATIONS

Sheet  $\underline{11}$  of  $\underline{11}$  Sheets