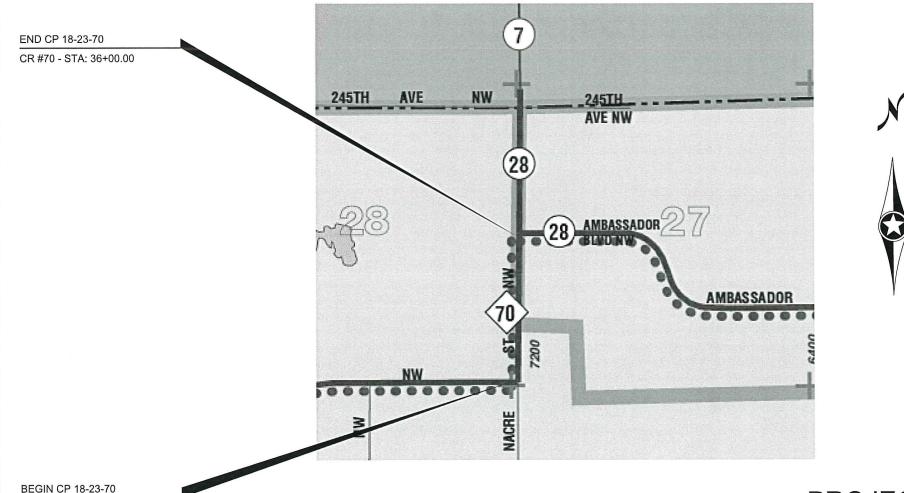
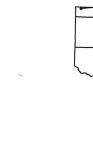
MINNESOTA DEPARTMENT OF TRANSPORTATION **ANOKA COUNTY**

BITUMINOUS RECLAMATION AND BITUMINOUS SURFACING CONSTRUCTION PLAN FOR _ HILL AND DALE RD AMBASSADOR BLVD. NW AND. LOCATED ON _____CR 70 BETWEEN







CITY OF ST. FRANCIS ANOKA COUNTY MN/DOT TRANSPORTATION DISTRICT - METRO **SECTION 27 & 28 TOWNSHIP 34 NORTHWEST** RANGE 25 WEST

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 9 SHEETS

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3	TYPICAL SECTIONS
4	DETAILS
5 - 6	CONSTRUCTION PLAN
7	PERMANENT MARKING TABULATION
8	TEMPORARY SIGNING, PERMANENT SIGNING, AND STRIPING
9	TRAFFIC CONTROL QUANTITY

DATE BY CKD APPR REVISION 04/18/2018 8:39:46 AM NAME: P:\18-01-00\CR 70 (HillAndDale-CSAH28)\Base\PROPOSED\TEMPLATE PLAN.dgn

CR #70

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GROSS LENGTH EXCEPTIONS-LENGTH

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OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINT NAME:



ANOKA COUNTY HIGHWAY DEPT.

TITLE SHEET

18-23-70 **COUNTY PROJECT**

Sheet 1 of 9 Sheets

		STATEMENT OF ESTIMATED QUANTIT	'IES	
				TOTAL PROJECT
NOTES	ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITIES ESTIMATED
	2021.501	MOBILIZATION	LUMP SUM	11
1	2123.510	MOTOR GRADER	HOUR	18
2	2130.523	WATER	MGAL	53
4	2211.509	AGGREGATE BASE CLASS 5	TON	49
	2215.504	FULL DEPTH RECLAMATION	SQ YD	7567
3	2221.509	SHOULDER BASE AGGREGATE CLASS 5	TON	343
5	2232.604	MILL BITUMINOUS PAVEMENT (SPECIAL)	SQ YD	6
	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GAL	378
	2360.509	TYPE SP 12.5 WEARING COURSE MIX (4,C)	TON	1707
6	2540.602	MAIL BOX SUPPORT	EACH	23
7	2563.601	TRAFFIC CONTROL	LUMP SUM	1
8	2563.613	PORTABLE CHANGEABLE MESSAGE SIGN	UNIT DAY	20
9	2574.507	COMMON TOPSOIL BORROW (LV)	CU YD	26
10	2575.523	EROSION CONTROL BLANKETS CATEGORY 0	SQ YD	240
11	2581.503	REMOVABLE PREFORMED PAVEMENT MARKING TAPE	LIN FT	104
12	2582.503	4" SOLID LINE MULTI-COMPONENT	LIN FT	7090
12	2582.502	4" BROKEN LINE MULTI-COMPONENT	LIN FT	500
12	2582.502	4" DOUBLE SOLID LINE MULTI-COMPONENT	LIN FT	140

	CONSTRUCTION NOTES
1	ITEM USED TO MOVE EXCESS RECLAIM MATERIAL AT THE RECLAIM AREA LIMITS TO CREATE A SMOOTH TRANSITION BETWEEN THE
1	PROPOSED AND EXISTING PAVEMENT. GENERAL MAINLINE SHAPING OF BASE MATERIAL SHALL BE INCIDENTAL TO RECLAMATION.
2	SHALL BE USED FOR DUST CONTROL.
3	ITEM TO BE USED AS BASE SHOULDER.
4	ITEM INCLUDES 7 TONS FOR EACH GRAVEL DRIVEWAY AND GRAVEL STREET APPROACH.
5	ITEM USED FOR MILLING STREET APPROACHES AND/OR DETAIL MILLING AREAS AS IDENTIFIED IN THE PLAN.
	MAILBOXES ARE TO BE INSTALLED AT THE EXISTING MAILBOX LOCATION OR AS DIRECTED BY THE LOCAL POSTAL AUTHORITY,
6	CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE LOCAL POSTAL AUTHORITY. MAILBOX REMOVAL AND ALL MATERIALS ARE
	ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO, AND BE INSTALLED IN ACCORDANCE WITH, THE MOST CURRENT REVISION OF THE
7	"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.
0	2 MESSAGE BOARDS, ONE ON THE EACH END OF PROJECT, WILL BE INSTALLED 10 DAYS PRIOR TO ANY CONSTRUCTION; REFERENCE
٥	STRIPING PLAN FOR DETAILS.
9	ITEM USED AT THE ENGINEER'S DISCRETION FOR THE RESTORATION OF DISTURBED AREAS ALONG DRIVEWAY AND STREET
10	FERTILIZER TYPE 3 AND SEED MIXTURE 25-131 ARE INCIDENTAL TO THIS ITEM.
11	CENTERLINE AND LANE DESIGNATION SKIPS TO BE APPLIED AS SOON AS POSSIBLE ON EACH NEW LIFT OF PAVEMENT; SKIPS MUST
11	BE INPLACE BEFORE THE CONTRACTOR LEAVES FOR THE DAY. CONTRACTOR SHALL REMOVE PRIOR TO FINAL PAINT STRIPING.
12	FINAL STRIPING SHALL BE INSTALLED WITHIN 72 HOURS OF COMPLETION OF MAINLINE WEAR COURSE PAVING.

	BASIS OF PLANNED QUANTITIES										
2357	BITUMINOUS MATERIAL FOR TACK COAT	0.05 GAL / SQ YD									
2211	AGGREGATE BASE CLASS 5 (CV)	1.8 TONS / CU YD									
2360	ALL BITUMINOUS PAVEMENT	115 LBS / SQ YD / IN THICKNESS									
2574	FERTILIZER TYPE 3	350 LBS / ACRE									
2575	SEED MIXTURE 25-131	220 LBS / ACRE									
2581	REMOVABLE PREFORM PAVEMENT MARKING TAPE	2' AT 50' INTERVALS									

	MN/DOT STANDARD PLATES
PLATE NUMBER	DESCRIPTION
8000J	CHANNELIZERS (3 SHEETS)
9350A	MAILBOX SUPPORT (SWING-AWAY TYPE)

							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
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CHECKED BY HG DATE 04/18/2018

ANOKA COUNTY

ANOKA COUNTY HIGHWAY DEPT. STATEMENT OF ESTIMATED QUANTITIES

18-23-70 COUNTY PROJECT _

Sheet 2 of 9 Sheets

		STATEMENT OF ESTIMATED QUANTII	ΓIES	
				TOTAL PROJECT
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	BASIS OF PLANNED QUANTITIES										
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	MN/DOT STANDARD PLATES	
PLATE NUMBER	DESCRIPTION	
8000J	CHANNELIZERS (3 SHEETS)	
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LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF
THE STATE OF MINNESOTA.
PRINT NAME: JOSEPH J. MACPHERSON

_ LICENSE NO. __46732

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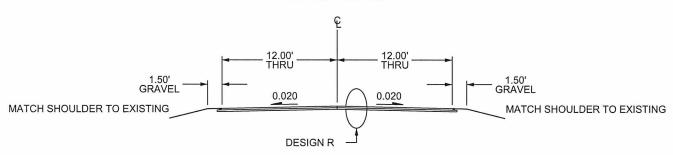
ANOKA COUNTY HIGHWAY DEPT. STATEMENT OF ESTIMATED QUANTITIES

COUNTY PROJECT ______18-23-70

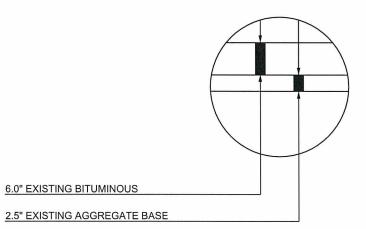
Sheet 2 of 9 Sheets

CR 70- Nacre ST. (PROPOSED) SECTION

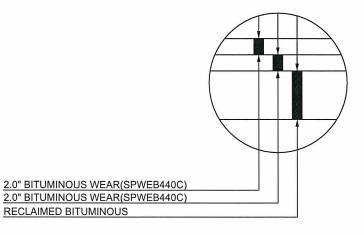
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LICENSE NO. 46732

DESIGN BY KPR DATE 01/29/1

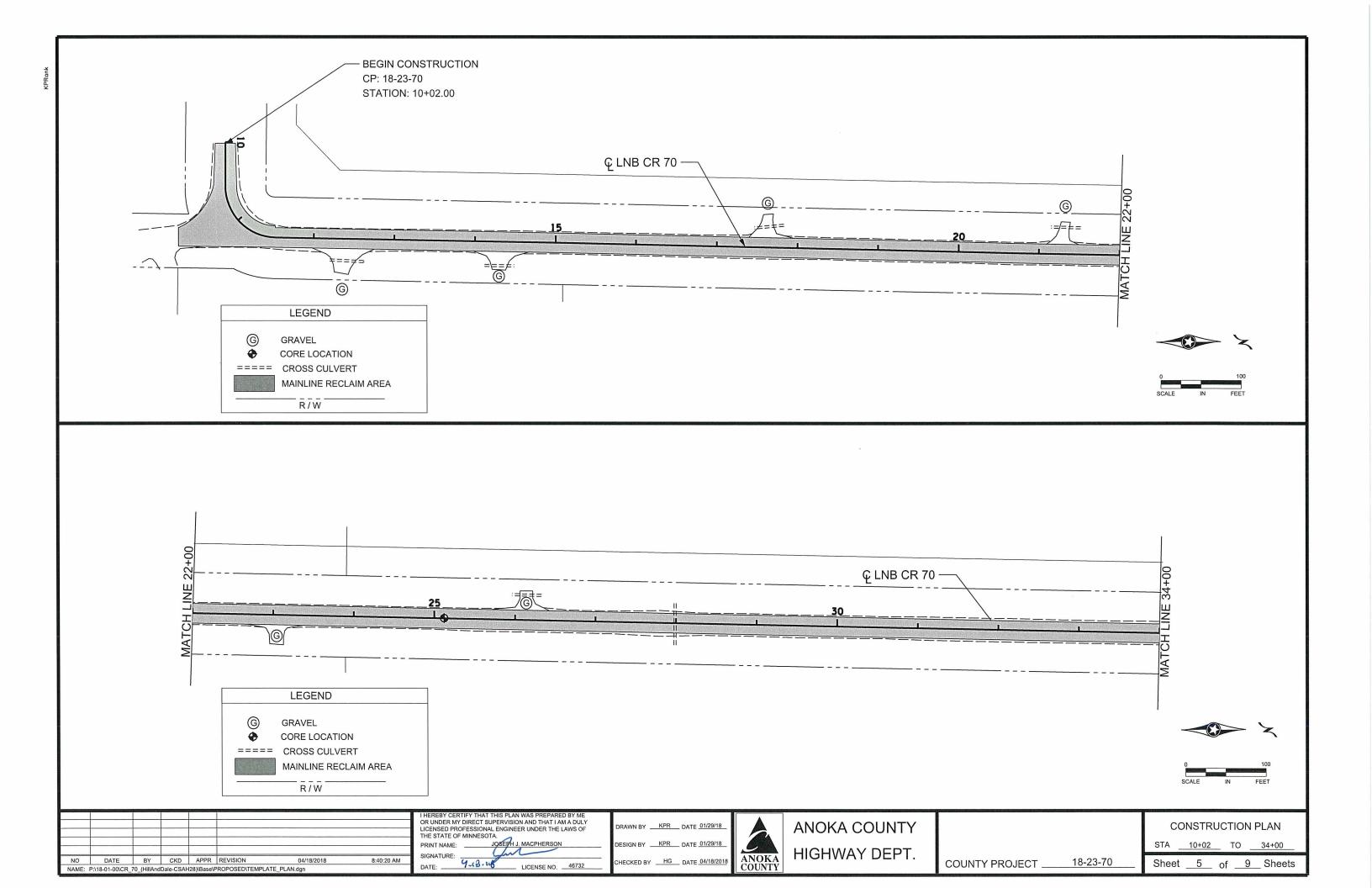
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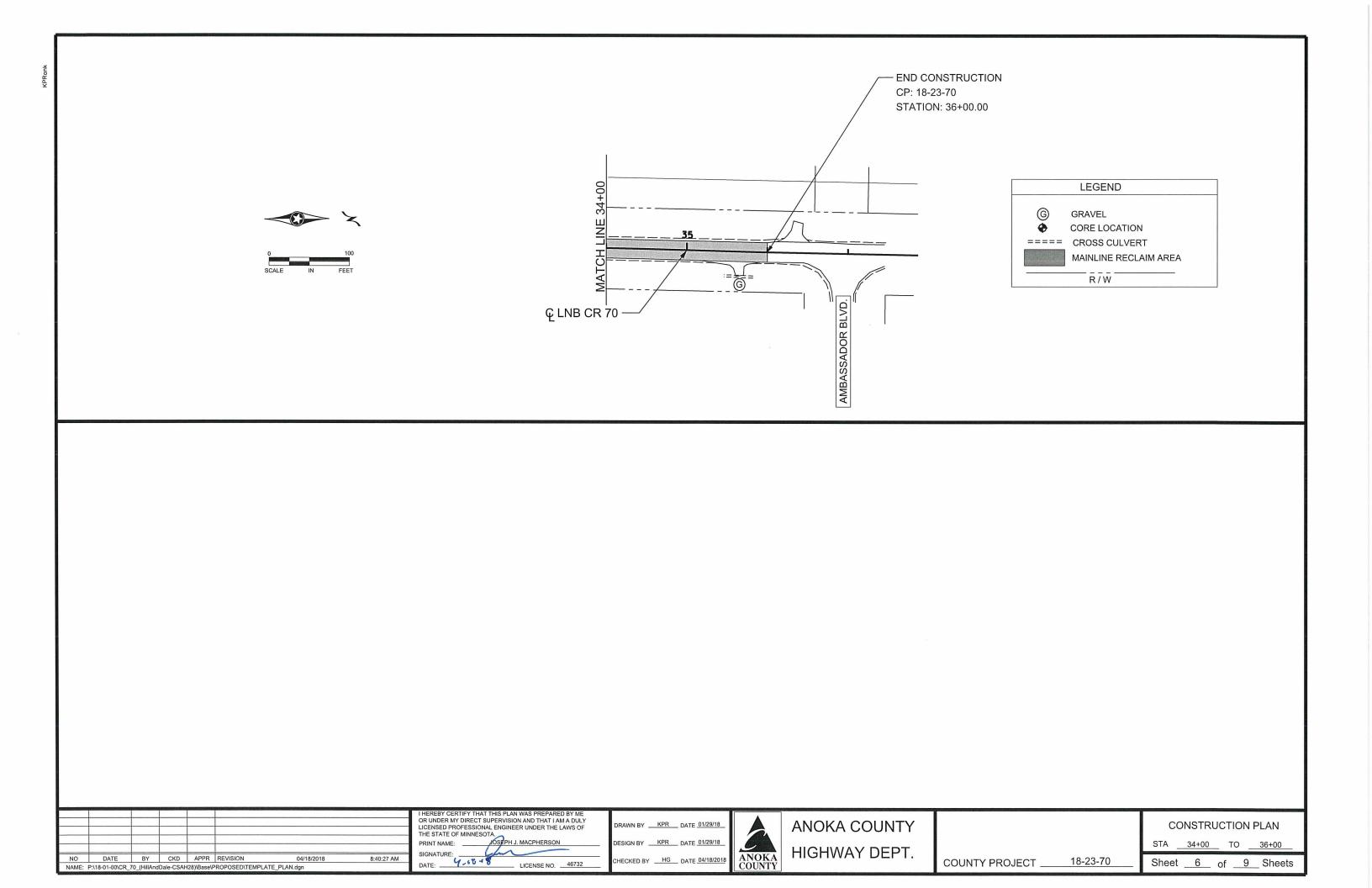
ANOKA COUNTY ANOKA COUNTY HIGHWAY DEPT.

TYPICAL SECTIONS

COUNTY PROJECT _____18-23-70

Sheet 3 of 9 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 $\frac{1}{4}$ INCH UNDER OR $\frac{1}{4}$ 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.

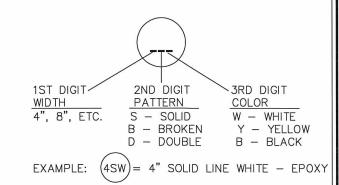
O PERMANENT MARKING QUANTITIES		
ПЕМ	UNIT	TOTAL QUANTITY
4" SOLID LINE WHITE -EPOXY PAINT	LIN FT	5300
4" SOLID LINE YELLOW - EPOXY PAINT	LIN FT	1790
4" BROKEN LINE YELLOW - EPOXY PAINT	LIN FT	500
4" DOUBLE SOLID LINE YELLOW - EPOXY PAINT	LIN FT	140

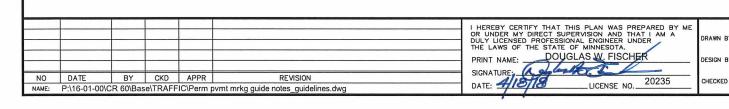
SYMBOLS & MATERIALS LEGEND

- CROSSWALK BLOCK WHITE PREFORMED THERMOPLASTIC
- PAVEMENT MESSAGE (LEFT ARROW)
 PREFORMED THERMOPLASTIC

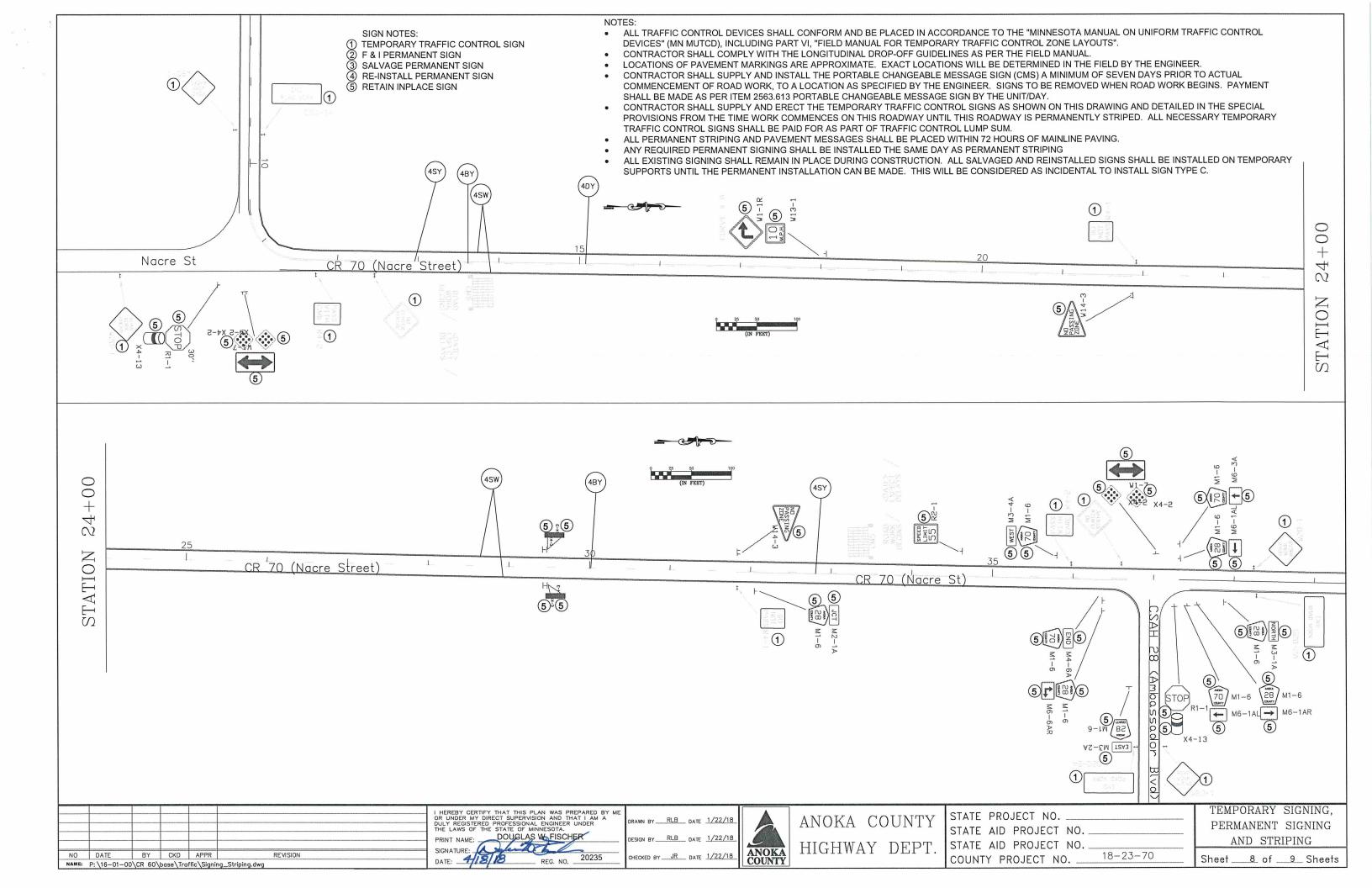
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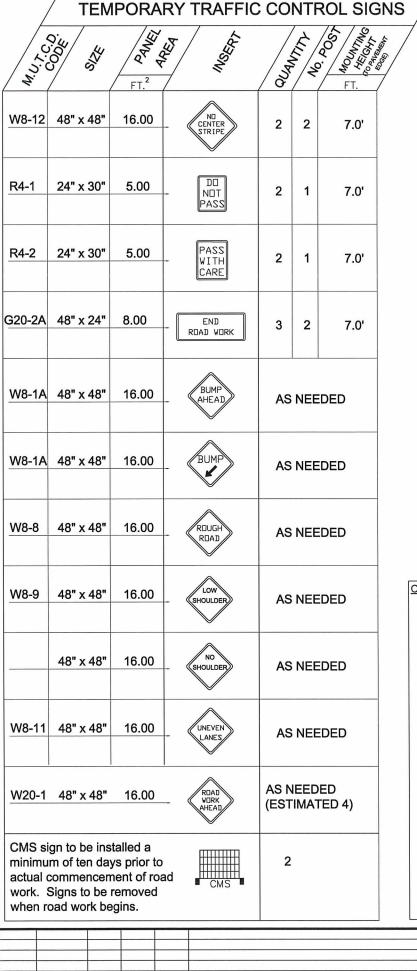
- CIRCLE EPOXY --- SQUARE PREFORMED THERMOPLASTIC
- TRIANGLE PAINT
- PENTAGON REMOVABLE PREFORMED PLASTIC MARKING











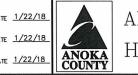
- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
- CONTRACTOR SHALL COMPLY WITH THE LONGITUDINAL DROP-OFF GUIDELINES AS PER THE FIELD MANUAL.
- LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR SHALL SUPPLY AND INSTALL THE PORTABLE CHANGEABLE MESSAGE SIGN (CMS) A MINIMUM OF SEVEN 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.
- 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.
- 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
- ALL EXISTING SIGNING SHALL REMAIN IN PLACE DURING CONSTRUCTION. ALL 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.

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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.

						I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY M OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINT NAME: DOUGLAS WEISCHER
)	DATE	BY	CKD	APPR	REVISION	SIGNATURE: 20235
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URE:	CHECKED BY JR	DA



ANOKA COUNTY HIGHWAY DEPT.

STATE PROJECT NO. STATE AID PROJECT NO. STATE AID PROJECT NO. 18-23-70 COUNTY PROJECT NO.

TRAFFIC CONTROL QUANTITY

Sheet 9 of 9 Sheets