

STATEMENT OF ESTIMATED QUANTITIES

NOTES	ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL PROJECT QUANTITIES ESTIMATED
	2021.501	MOBILIZATION	LUMP SUM	1
1	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	21
1	2104.503	SAWING BIT PAVEMENT (FULL DEPTH)	LIN FT	165
2	2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	36
3	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	104
	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	1011
4	2105.602	CONSTRUCT TURN LANES	EACH	1
5	2123.510	MOTOR GRADER	HOUR	32
7	2211.509	AGGREGATE BASE CLASS 5	TON	40
	2215.504	FULL DEPTH RECLAMATION	SQ YD	56670
	2221.509	SHOULDER BASE AGGREGATE CLASS 5	TON	1193
18	2215.507	HAUL FULL DEPTH RECLAMATION (LV)	CU YD	160
8	2232.604	MILL BITUMINOUS PAVEMENT (SPECIAL)	SQ YD	138
	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	2864
9, 10	2360.509	TYPE SP 12.5 WEARING COURSE MIX (4;C)	TON	99
10	2360.509	TYPE SP 12.5 WEARING COURSE MIX (4;C)	TON	13162
1	2531.504	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	36
11	2540.602	MAIL BOX SUPPORT	EACH	5
	2563.601	TRAFFIC CONTROL SUPERVISOR	LUMP SUM	1
13	2563.601	TRAFFIC CONTROL	LUMP SUM	1
14	2563.613	PORTABLE CHANGEABLE MESSAGE SIGN	UNIT DAY	20
	2564.518	SIGN PANELS TYPE C	SQ FT	12.50
12	2565.602	RIGID PVC LOOP DETECTOR 6'X6'	EACH	6
	2573.501	EROSION CONTROL SUPERVISOR	LUMP SUM	1
	2574.507	COMMON TOPSOIL BORROW	CU YD	64
15	2575.508	HYDRAULIC REINFORCED FIBER MATRIX	POUND	350
16	2581.503	REMOVABLE PREFORM PAVEMENT MARKING TAPE	LIN FT	840
17	2582.503	4" SOLID LINE MULTI COMP	LIN FT	40441
17	2582.503	4" BROKEN LINE MULTI COMP	LIN FT	1642
17	2582.503	4" DBLE SOLID LINE MULTI COMP	LIN FT	8432
17	2582.503	8" DOTTED LINE MULTI COMP CONT	LIN FT	36
17	2582.518	PAVT MSSG PREF THERMO	SQ FT	31
18	2582.518	PAVT MSSG PREF THERMO ESR GR IN	SQ FT	290

CONSTRUCTION NOTES

1	REFERENCE DETAILS (PAGE 6 & 7) FOR REMOVAL DETAILS
2	ITEM FOR CONCRETE DRIVEWAYS. CONTRACTOR IS RESPONSIBLE FOR CONTACTING PROPERTY OWNER 48 HOURS BEFORE STARTING OPERATION.
3	ITEM FOR BITUMINOUS DRIVEWAYS AND STREET APPROACHES. CONTRACTOR IS RESPONSIBLE FOR CONTACTING PROPERTY OWNER 48 HOURS BEFORE STARTING OPERATION.
4	THIS ITEM INCLUDES: COMMON EXCAVATION, SELECT GRANULAR BORROW, TOPSOIL, AND AGG BASE CL-5. (SEE PG 10 FOR QUANTITIES) SHAPING OF SUB-GRADE AND AGGREGATE BASE ARE INCIDENTAL TO CONSTRUCT TURN LANE ITEM
5	ITEM USED TO MOVE EXCESS RECLAIM MATERIAL AT THE RECLAIM AREA LIMITS TO CREATE A SMOOTH TRANSITION BETWEEN THE PROPOSED AND EXISTING PAVEMENT
6	GRAVEL BASE FOR BITUMINOUS DRIVEWAYS, AND CURB PATCHES.
7	ITEM INCLUDES 7 TONS FOR EACH GRAVEL ENTRANCE AND GRAVEL STREET APPROACH.
8	ITEM INCLUDES 2" DEEP MILL AT BEGINNING AND END OF PROJECT, ALL PAVED ST APPROACHES, AND DRIVEWAYS; SEE DETAILS FOR DIMENSIONS
9	ITEM FOR BITUMINOUS DRIVEWAYS. DRIVEWAYS SHALL BE PAVED AFTER MAINLINE AND BEFORE FINAL STRIPING.
10	ITEM FOR STREET APPROACHES. STREET APPROACHES SHALL BE PAVED AFTER MAINLINE, AND BEFORE FINAL STRIPING
11	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 INCIDENTAL TO INSTALLATION.
12	LOOP REPLACEMENT REQUIRED AT CSAH 24 AND TH 65. CONTRACTOR SHALL CONTACT PETE ELLWANGER (MNDOT), 651-775-1279, FOR COORDINATION ON PLACEMENT, SIGNAL FLASH OPERATION, AND INSTALL. SIGNAL PLANS ARE INCLUDED AT THE END OF THIS PLAN.
13	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 PERMANENT PAVEMENT MARKINGS ARE NOT PRESENT.
14	2 MESSAGE BOARDS, ONE ON THE EACH END OF PROJECT, SHALL BE INSTALLED 10 DAYS PRIOR TO ANY CONSTRUCTION; REFERENCE STRIPING PLAN FOR DETAILS.
15	TYPE 3 FERTILIZER AND TYPE 25-121 SEED ARE INCIDENTAL TO THIS ITEM. SEE "BASIS OF PLANNED QUANTITIES" FOR APPLICATION RATES.
16	CENTERLINE AND LANE DESIGNATION SKIPS TO BE APPLIED AS SOON AS POSSIBLE ON MILLED SURFACE AND EACH NEW LIFT OF PAVEMENT; SKIPS MUST BE INPLACE BEFORE THE CONTRACTOR LEAVES FOR THE DAY. CONTRACTOR IS TO REMOVE PRIOR TO FINAL STRIPING.
17	FINAL STRIPING SHALL BE INSTALLED WITHIN 72 HOURS OF COMPLETION OF MAINLINE WEAR COURSE PAVING.
18	INSTALLED AT CSAH 24 AND TH 65. CONTACT PETE ELLWANGER (MNDOT), 651-775-1279, FOR PLACEMENT AND SIGNAL FLASH OPERATION DURING INSTALL.

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT.


MNDOT STANDARD PLATES	
PLATE NO.	DESCRIPTION
8000J	CHANNELIZERS
8132B	PREFORMED RIGID PVC CONDUIT LOOP DETECTOR - LAYOUT DETAILS, LAYOUT NOTES, TYPICAL INSTALLATION (3 SHEETS)
9350A	MAILBOX SUPPORT (SWING-AWAY TYPE)

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
2221	SHOULDER BASE AGGREGATE 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

NO	DATE	BY	CKD	APPR	REVISION	
	02/26/2021					9:13:04 AM

NAME: P:\21-01-00\CSAH_24_(TH65-NCL)\Base\Proposed\CSAH24_SEQ.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. AUGER JR.
 SIGNATURE: 
 DATE: 02-24-2021 LICENSE NO. 26511

DRAWN BY: DLD DATE: 12-11-20
 DESIGN BY: SPH DATE: 12-11-20
 CHECKED BY: XXX DATE: 02/26/2021



**ANOKA COUNTY
HIGHWAY DEPT.**

STATE AID PROJECT 002-624-029

STATEMENT OF ESTIMATED QUANTITIES

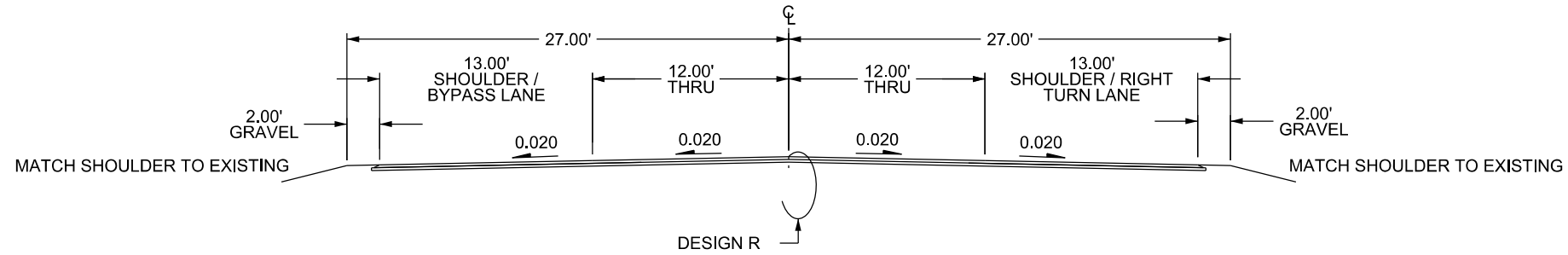
Sheet 2 of 34 Sheets

CSAH 24 - 237th AVE NE

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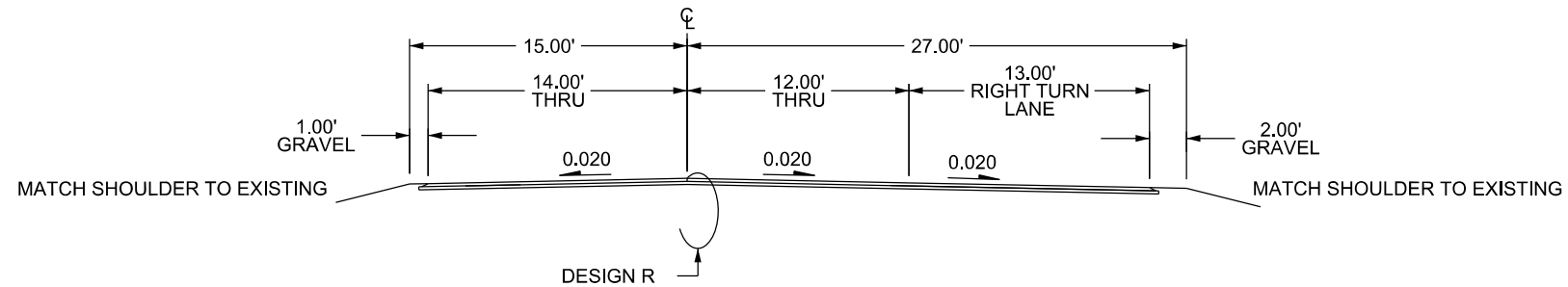
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CSAH 24 - 237th AVE NE

(RECLAIM) SECTION

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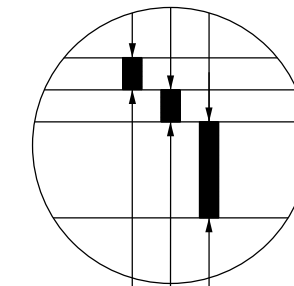
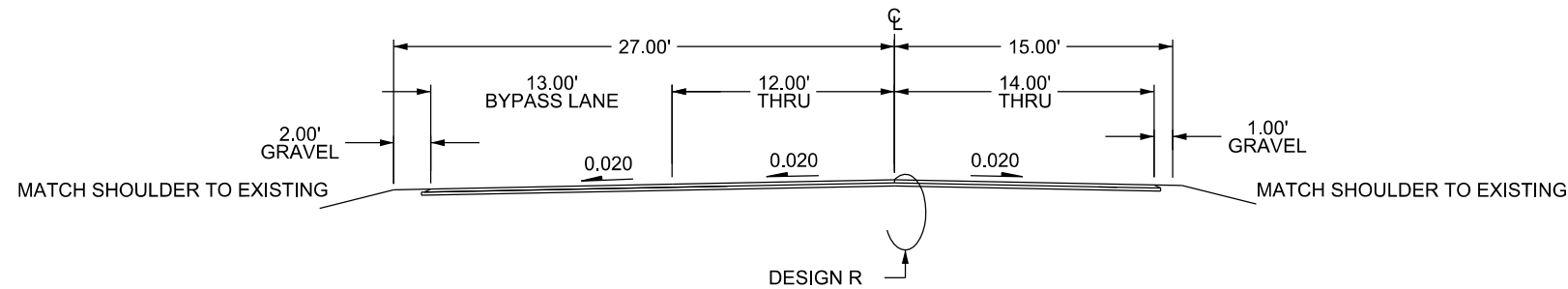


DESIGN R RECLAIM SECTION

CSAH 24 - 237th AVE NE

(RECLAIM) SECTION

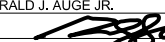
42+60.00 - 46+02.00 (ISANTI ST.)




2.0" BITUMINOUS WEAR(SPWEB440C)
2.0" BITUMINOUS WEAR(SPWEB440C)
RECLAIMED BITUMINOUS

NO	DATE	BY	CKD	APPR	REVISION	TIME
	02/26/2021					9:13:12 AM

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 CHECKED BY: CO DATE: 02-03-21

 ANOKA COUNTY
HIGHWAY DEPT.

STATE AID PROJECT 002-624-029

TYPICAL SECTIONS
 Sheet 3 of 34 Sheets

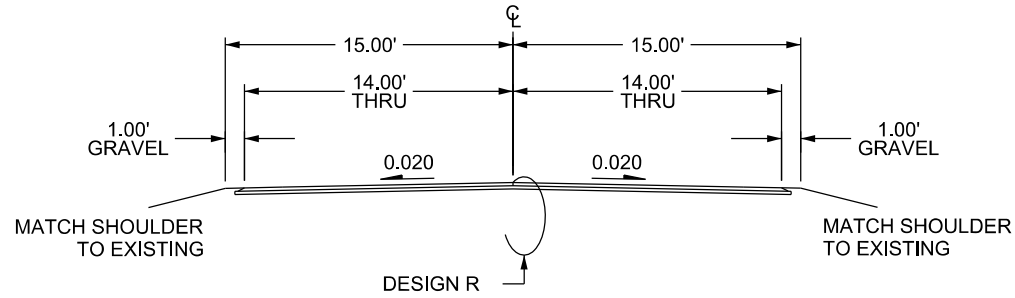
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(RECLAIM) SECTION

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24+84.00 - 37+62.00

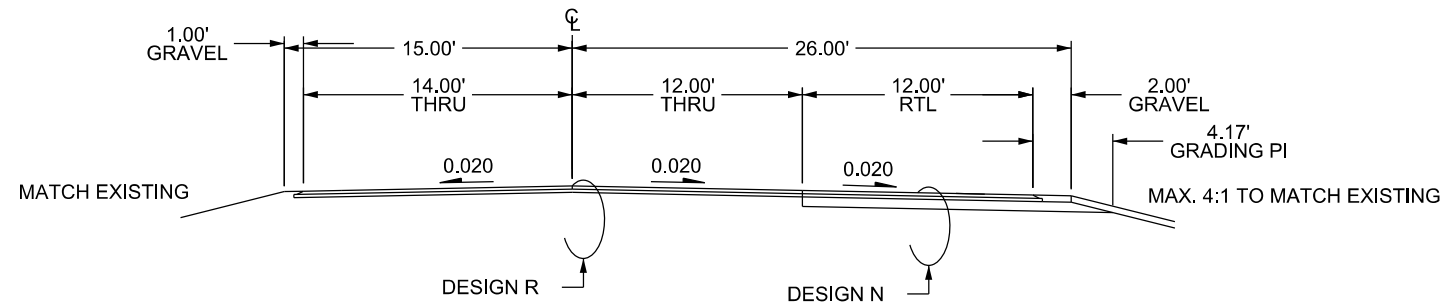
46+02.00 - 55+90.00



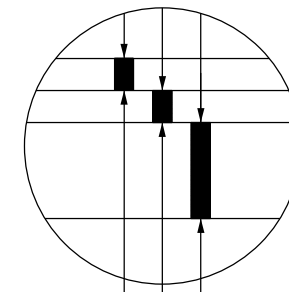
CSAH 24 - 237th AVE NE

RIGHT TURN LANE

19+84.00 - 24+84.00 (DAVENPORT ST.)




DESIGN N RIGHT TURN & BYPASS LANE



2.0" BITUMINOUS WEAR(SPWEB440C)
2.0" BITUMINOUS WEAR(SPWEB440C)
6" AGGREGATE BASE, CLASS 5

NO	DATE	BY	CKD	APPR	REVISION	DATE	TIME
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HIGHWAY DEPT.

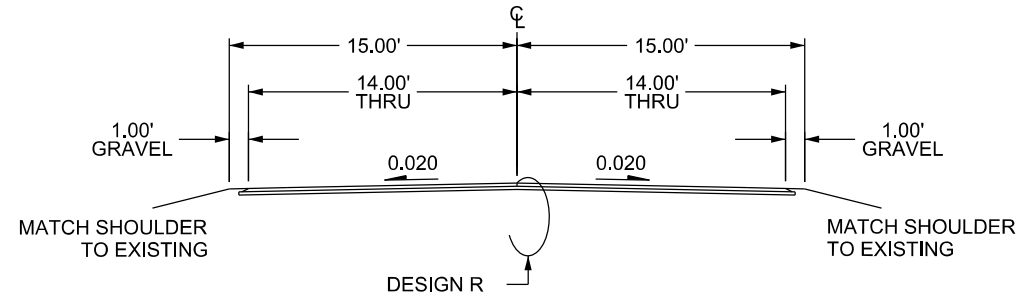
STATE AID PROJECT 002-624-029

TYPICAL SECTIONS
Sheet 4 of 34 Sheets

CSAH 24 - FAWN LAKE DR. NE

(RECLAIM) SECTION

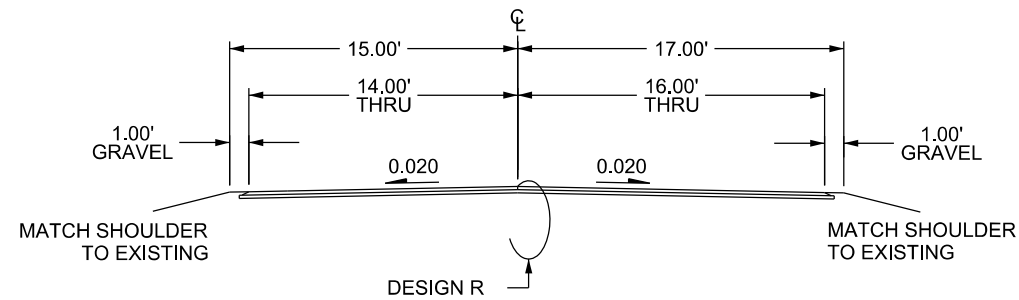
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 217+12.00 - 235+00.00



CSAH 24 - FAWN LAKE DR. NE

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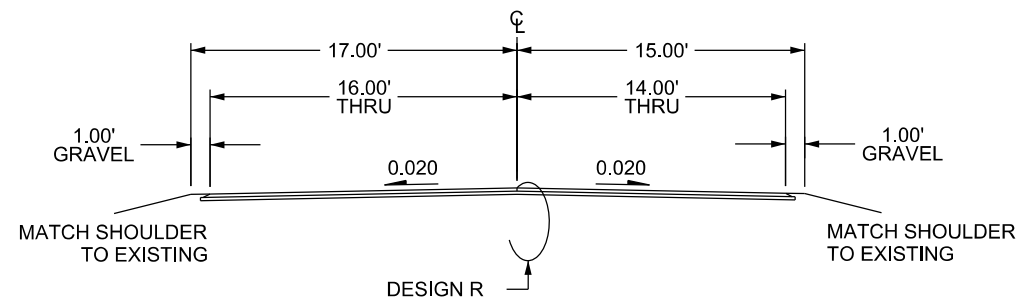
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CSAH 24 - FAWN LAKE DR. NE

(RECLAIM) SECTION

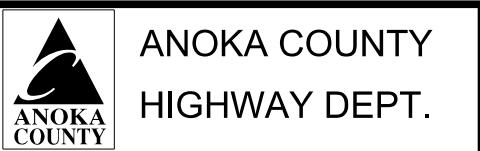
154+93.00 - 166+28.00
 202+78.00 - 217+12.00



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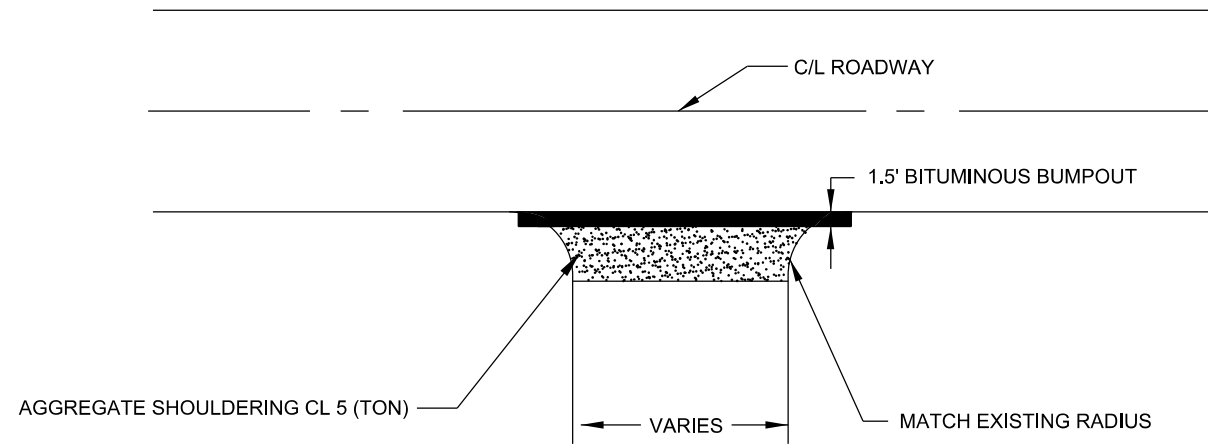
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 CHECKED BY CO DATE 02-03-21



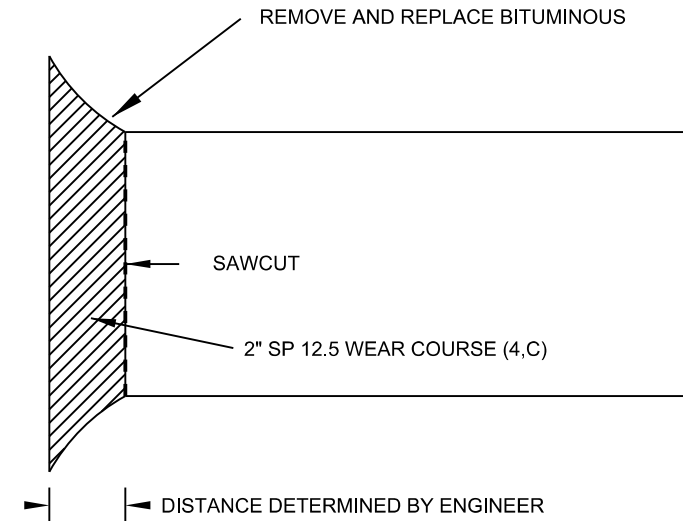
STATE AID PROJECT 002-624-029

TYPICAL SECTIONS
 Sheet 5 of 34 Sheets

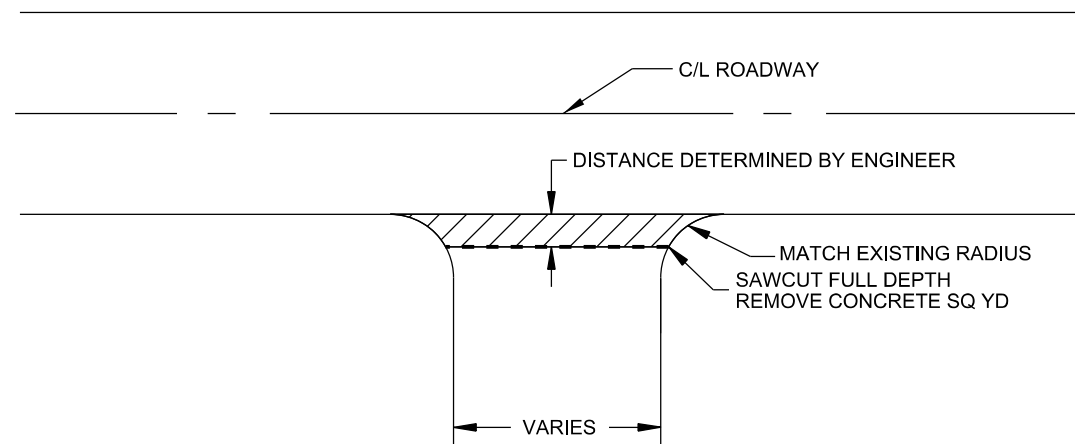
DRIVEWAY DETAIL GRAVEL / FIELD ENTRANCE



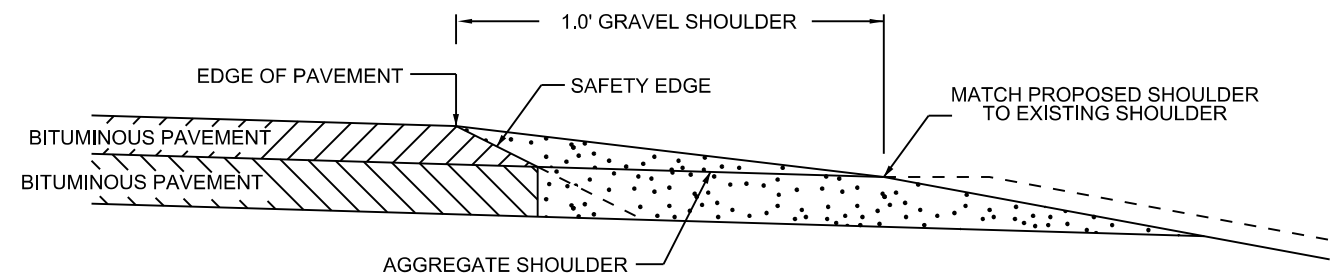
RECLAIM AREA - DRIVEWAY DETAIL BITUMINOUS PLAN VIEW



DRIVEWAY DETAIL CONCRETE DRIVEWAY




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 .

NO	DATE	BY	CKD	APPR	REVISION	02/26/2021	9:13:14 AM
NAME: P:\21-01-00\CSAH_24_(TH65-NCL)\Base\Proposed\CSAH24_DETAILS.dgn							

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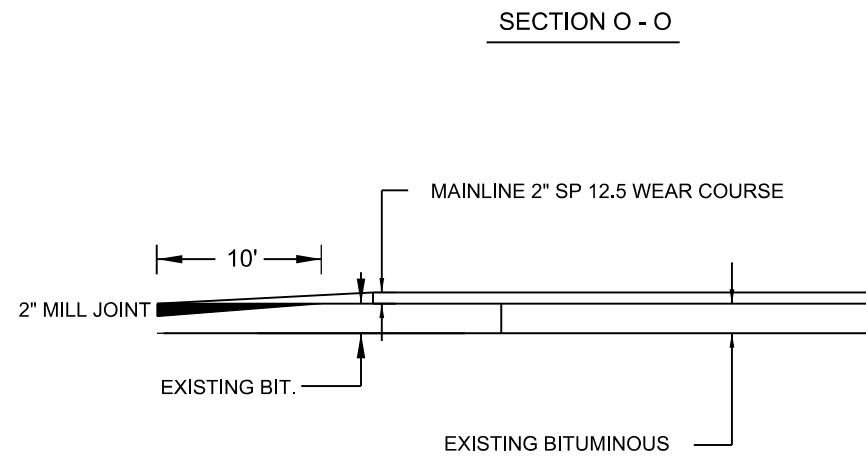
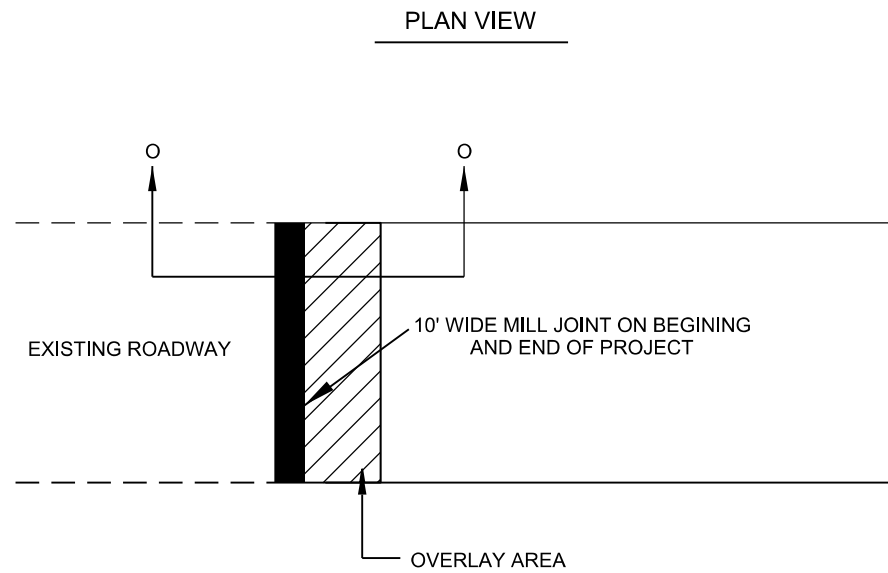


ANOKA COUNTY
HIGHWAY DEPT.

STATE AID PROJECT 002-624-029

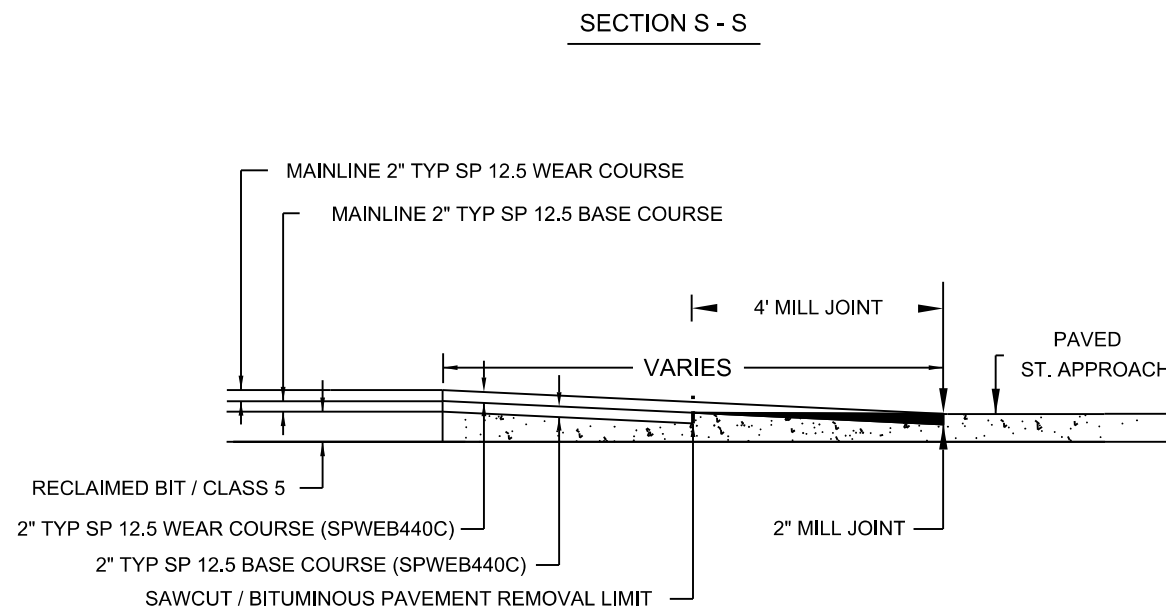
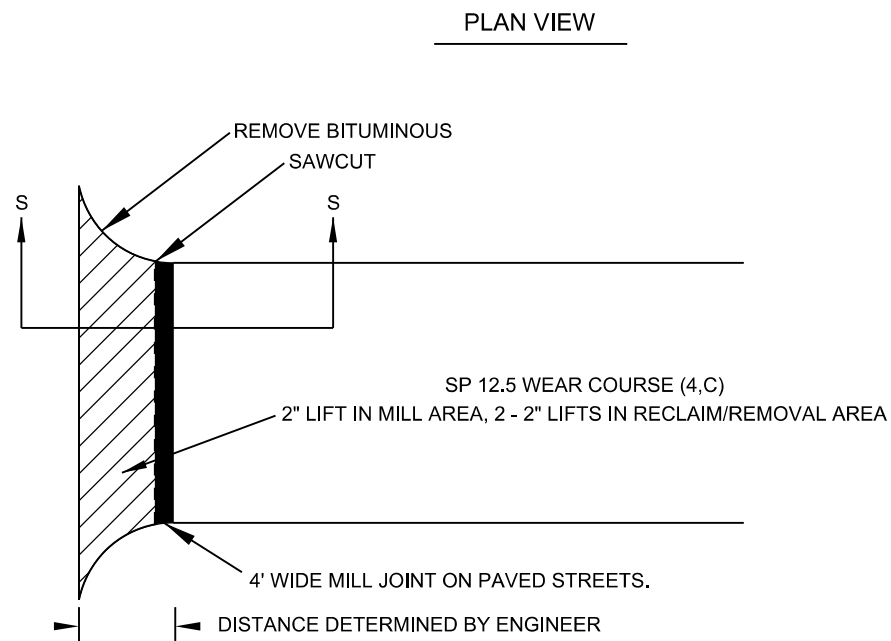
DETAILS
Sheet 6 of 34 Sheets

MAINLINE JOINT DETAIL (RECLAIM)




STREET APPROACH DETAIL (RECLAIM)

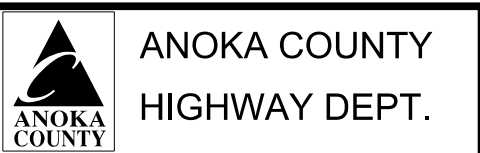
BITUMINOUS STREET



NO	DATE	BY	CKD	APPR	REVISION	02/26/2021	9:13:15 AM
NAME: P:\21-01-00\CSAH_24_(TH65-NCL)\Base\Proposed\CSAH24_DETAILS.dgn							

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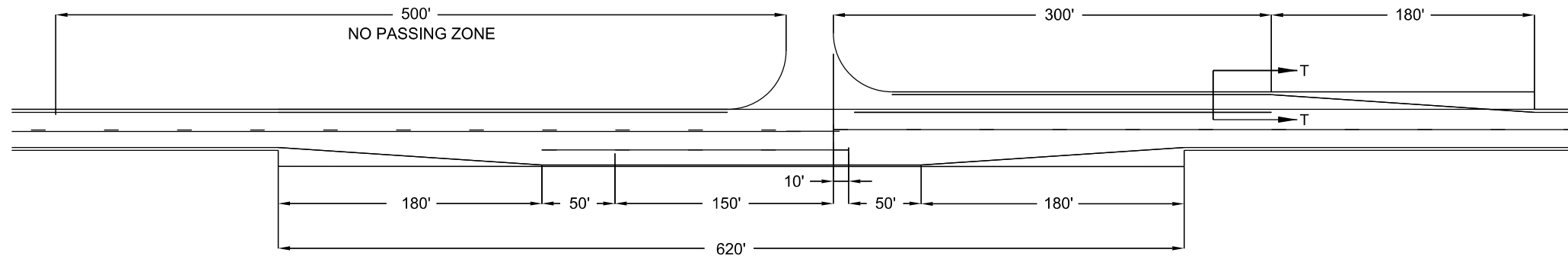


STATE AID PROJECT 002-624-029

DETAILS
 Sheet 7 of 34 Sheets

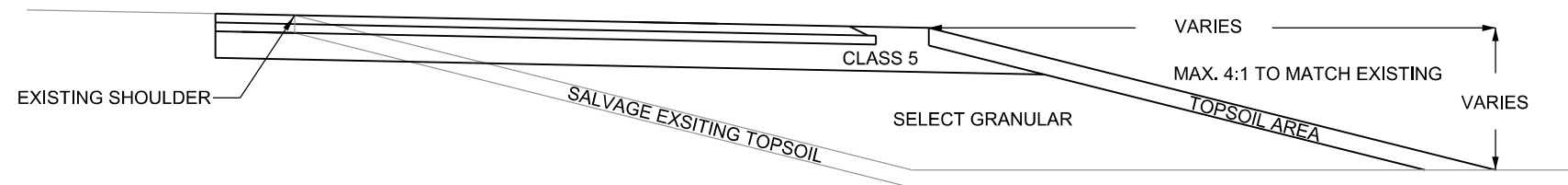
RIGHT TURN AND BYPASS LANE

GENERAL LAYOUT PLAN VIEW



RIGHT TURN AND BYPASS LANE

SECTION T - T



NO	DATE	BY	CKD	APPR	REVISION	DATE	TIME
						02/26/2021	9:13:15 AM

NAME: P:\21-01-00\CSAH_24_(TH65-NCL)\Base\Proposed\CSAH24_DETAILS.dgn

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 CHECKED BY CO DATE 02-03-21



**ANOKA COUNTY
HIGHWAY DEPT.**

STATE AID PROJECT 002-624-029

DETAILS
 Sheet 8 of 34 Sheets

SUPERELEVATION CORRECTION TAB			
STATION	POINT	LEFT GRADE	RIGHT GRADE
112+70	MATCH EXISTING	2.9%	-6.7%
113+25		3.0%	-6.0%
113+75		2.0%	-5.2%
114+25		1.0%	-4.4%
114+75		0.0%	-3.6%
115+25		-1.0%	-2.8%
115+85	END SUPER	-2.0%	-2.0%

SUPERELEVATION CORRECTION TAB			
STATION	POINT	LEFT GRADE	RIGHT GRADE
153+38	BEGIN SUPER	-2.0%	-2.0%
153+86		-2.0%	-2.0%
154+34		-2.0%	-2.0%
154+82		-2.0%	-2.0%
155+30		-2.0%	-0.4%
155+78		-3.0%	1.2%
156+26	PC	-4.0%	2.8%
156+74		-5.0%	4.4%
157+22	BEGIN FULL SUPER	-6.0%	6.0%
157+70		-6.0%	6.0%
158+18		-6.0%	6.0%
158+66		-6.0%	6.0%
159+14		-6.0%	6.0%
159+62		-6.0%	6.0%
160+10		-6.0%	6.0%
160+58		-6.0%	6.0%
161+06		-6.0%	6.0%
161+54		-6.0%	6.0%
162+02		-6.0%	6.0%
162+50		-6.0%	6.0%
162+98		-6.0%	6.0%
163+46		-6.0%	6.0%
163+94		-6.0%	6.0%
164+20	END FULL SUPER	-6.0%	6.0%
164+68		-5.0%	5.0%
165+16	PT	-4.0%	4.0%
165+64		-3.0%	3.0%
166+12		-2.0%	2.0%
166+60		-2.0%	1.0%
167+08		-2.0%	0.0%
167+56		-4.0%	-1.0%
168+04	END SUPER	-2.0%	-2.0%

SUPERELEVATION CORRECTION TAB			
STATION	POINT	LEFT GRADE	RIGHT GRADE
170+64	BEGIN SUPER	-2.0%	-2.0%
171+12		-2.0%	-2.0%
171+60		-2.0%	-2.0%
172+08		-2.0%	-2.0%
172+56		-0.4%	-2.0%
173+04		1.2%	-3.0%
173+52	PC	2.8%	-4.0%
174+00		4.4%	-5.0%
174+48	BEGIN FULL SUPER	6.0%	-6.0%
174+96		6.0%	-6.0%
175+44		6.0%	-6.0%
175+92		6.0%	-6.0%
176+40		6.0%	-6.0%
176+88		6.0%	-6.0%
177+36		6.0%	-6.0%
177+84		6.0%	-6.0%
178+32		6.0%	-6.0%
178+80		6.0%	-6.0%
179+28		6.0%	-6.0%
179+76		6.0%	-6.0%
180+24		6.0%	-6.0%
180+72		6.0%	-6.0%
181+20		6.0%	-6.0%
181+68		6.0%	-6.0%
182+16		6.0%	-6.0%
182+64		6.0%	-6.0%
182+80	END FULL SUPER	6.0%	-6.0%
183+28		5.0%	-5.0%
183+76	PT	4.0%	-4.0%
184+24		3.0%	-3.0%
184+72		2.0%	-2.0%
185+20		1.0%	-2.0%
185+68		0.0%	-2.0%
186+16		-1.0%	-2.0%
186+64	END SUPER	-2.0%	-2.0%

SUPERELEVATION CORRECTION TAB			
STATION	POINT	LEFT GRADE	RIGHT GRADE
200+48	BEGIN SUPER	-2.0%	-2.0%
200+96		-2.0%	-2.0%
201+44		-2.0%	-2.0%
201+92		-2.0%	-2.0%
202+40		-2.0%	-0.4%
202+88		-3.0%	1.2%
203+36	PC	-4.0%	2.8%
203+84		-5.0%	4.4%
204+32	BEGIN FULL SUPER	-6.0%	6.0%
204+80		-6.0%	6.0%
205+28		-6.0%	6.0%
205+76		-6.0%	6.0%
206+24		-6.0%	6.0%
206+72		-6.0%	6.0%
207+20		-6.0%	6.0%
207+68		-6.0%	6.0%
208+16		-6.0%	6.0%
208+64		-6.0%	6.0%
209+12		-6.0%	6.0%
209+60		-6.0%	6.0%
210+08		-6.0%	6.0%
210+56		-6.0%	6.0%
211+04		-6.0%	6.0%
211+52		-6.0%	6.0%
212+00		-6.0%	6.0%
212+48		-6.0%	6.0%
212+96		-6.0%	6.0%
213+44		-6.0%	6.0%
213+92		-6.0%	6.0%
214+40		-6.0%	6.0%
214+88		-6.0%	6.0%
215+36	END FULL SUPER	-6.0%	6.0%
215+84		-5.0%	5.0%
216+32		-4.0%	4.0%
216+80		-3.0%	3.0%
217+28		-2.0%	2.0%
217+76	PT	-2.0%	1.0%
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218+72		-2.0%	-1.0%
219+20	END SUPER	-2.0%	-2.0%

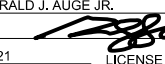
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117+70		0.0%	-2.0%
118+30		-2.0%	-2.0%
118+90	PC	4.0%	-4.0%
119+50	BEGIN FULL SUPER	6.0%	-6.0%
120+10		6.0%	-6.0%
120+70		6.0%	-6.0%
121+30		6.0%	-6.0%
121+90		6.0%	-6.0%
122+50		6.0%	-6.0%
123+10		6.0%	-6.0%
123+70		6.0%	-6.0%
124+30		6.0%	-6.0%
124+90		6.0%	-6.0%
125+50		6.0%	-6.0%
126+10		6.0%	-6.0%
126+70		6.0%	-6.0%
127+30		6.0%	-6.0%
127+90		6.0%	-6.0%
128+50		6.0%	-6.0%
129+10		6.0%	-6.0%
129+70		6.0%	-6.0%
130+30		6.0%	-6.0%
130+90		6.0%	-6.0%
131+50		6.0%	-6.0%
131+93	END FULL SUPER	6.0%	-6.0%
132+53	PT	4.0%	-4.0%
133+13		2.0%	-2.0%
133+73		0.0%	-2.0%
134+33	END SUPER	-2.0%	-2.0%

NO	DATE	BY	CKD	APPR	REVISION
	02/26/2021				9:13:15 AM

NAME: P:\21-01-00\CSAH_24_(TH65-NCL)\Base\Proposed\CSAH24_DETAILS.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. AUGER JR.

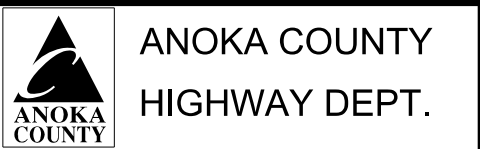
SIGNATURE: 

DATE: 02-24-2021 LICENSE NO. 26511

DRAWN BY: DLD DATE: 12-11-20

DESIGN BY: SPH DATE: 12-11-20

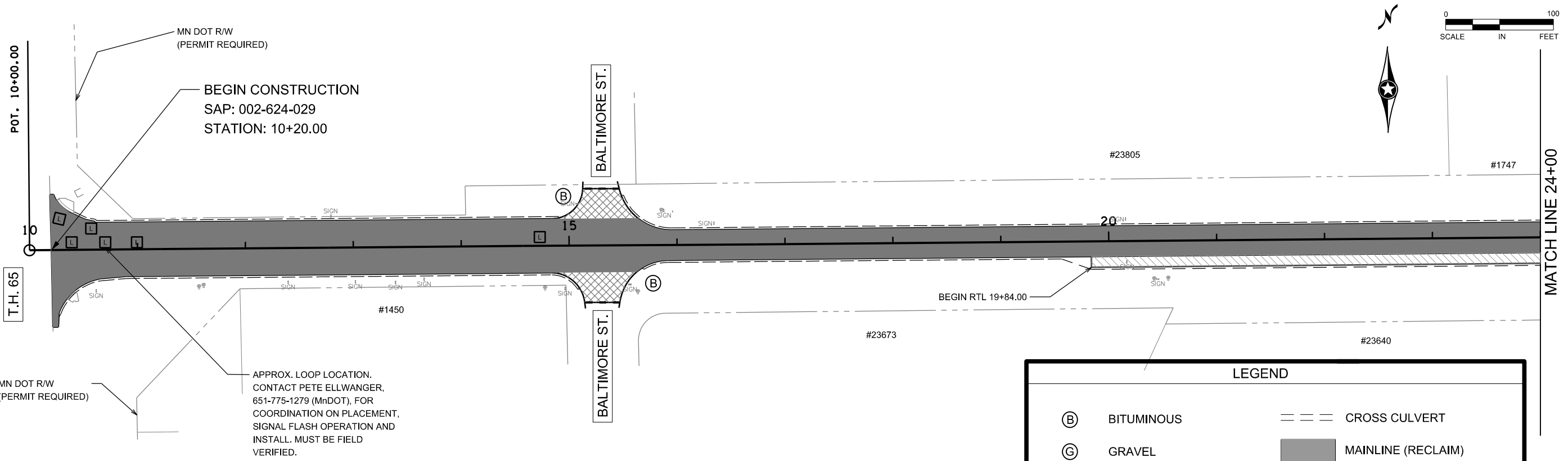
CHECKED BY: CO DATE: 02-03-21



STATE AID PROJECT 002-624-029

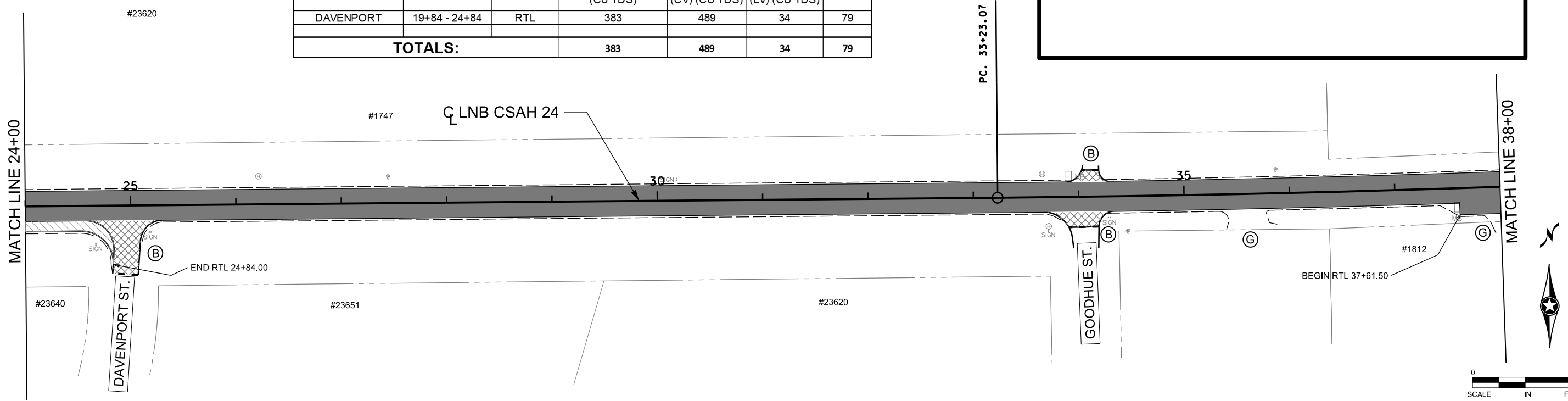
TABULATIONS

Sheet 9 of 34 Sheets



RIGHT TURN LANE AND BYPASS LANE TAB

STREET	STATION RANGE	RTL / BYPASS	COMMON EXCAVATION (CU YDS)	GRANULAR BORROW (CV) (CU YDS)	TOPSOIL BORROW (LV) (CU YDS)	CLASS 5 (TON)
DAVENPORT	19+84 - 24+84	RTL	383	489	34	79
TOTALS:			383	489	34	79



NO	DATE	BY	CKD	APPR	REVISION	DATE	TIME

NAME: P:\21-01-00\CSAH_24_(TH65-NCL)\Base\Proposed\CSAH24_CP1.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. AUGER, JR.


SIGNATURE: *[Signature]*

DATE: 02-24-2021 LICENSE NO. 26511

DRAWN BY: DLD DATE: 12-11-20

DESIGN BY: SPH DATE: 12-11-20

CHECKED BY: CO DATE: 02-03-21

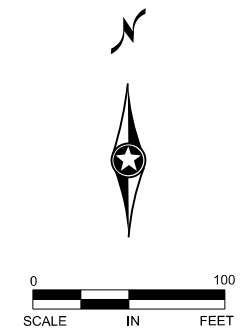
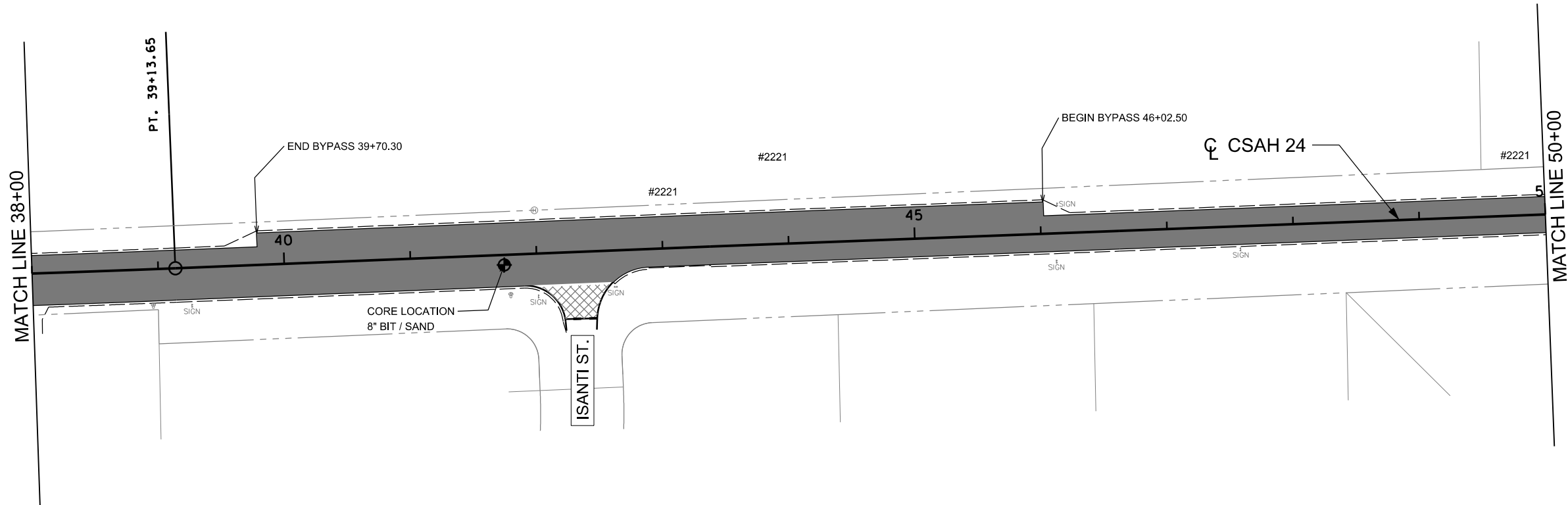

**ANOKA COUNTY
HIGHWAY DEPT.**

STATE AID PROJECT 002-624-029

CONSTRUCTION PLAN

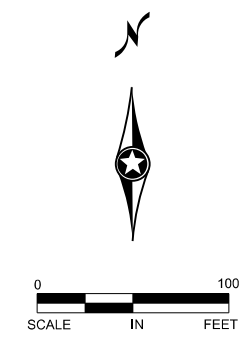
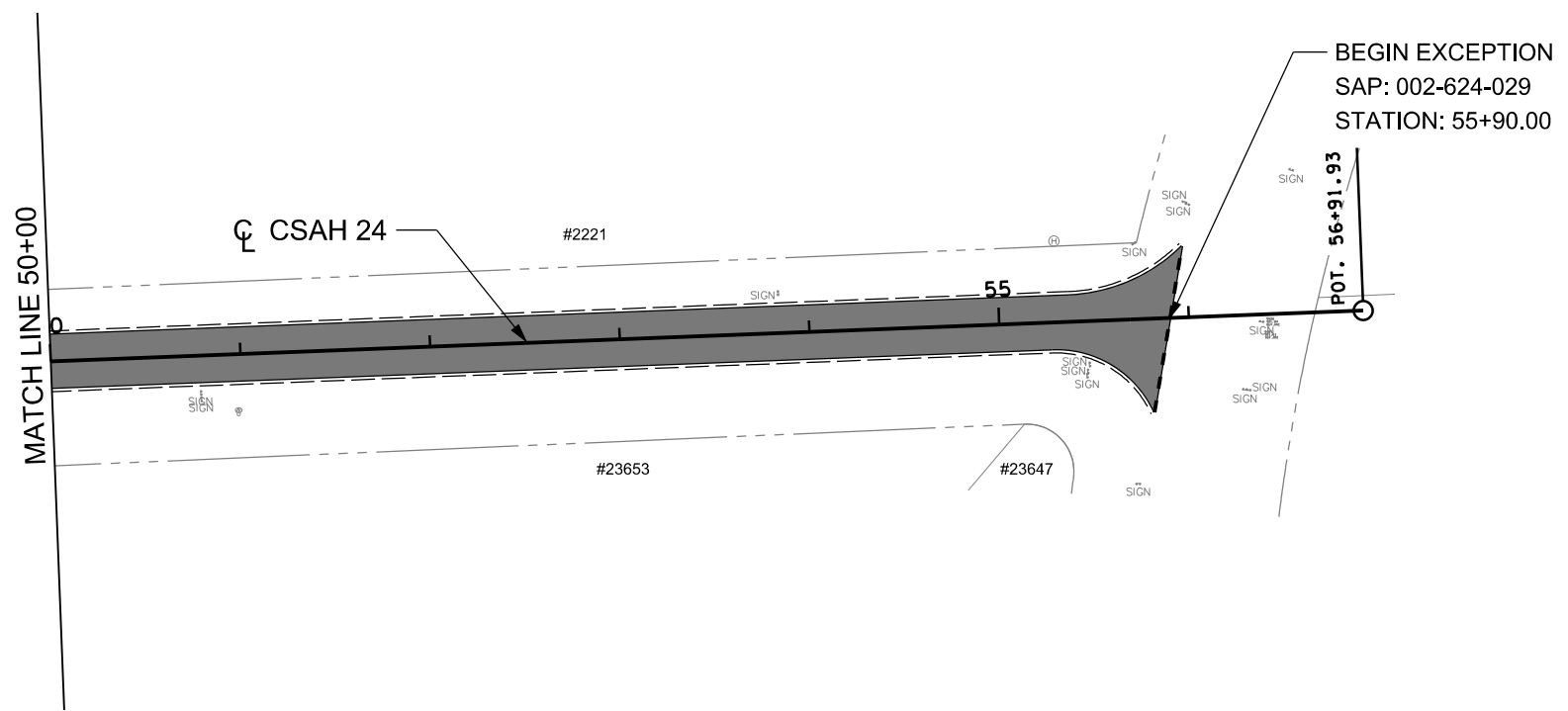
STA 10+20 TO 38+00

Sheet 10 of 34 Sheets



LEGEND

ⓑ BITUMINOUS	--- CROSS CULVERT
Ⓒ GRAVEL	█ MAINLINE (RECLAIM)
⊕ CORE LOCATION	▨ REMOVE AND REPLACE PAVEMENT
--- SAWCUT	_____ R / W



NO	DATE	BY	CKD	APPR	REVISION	
	02/26/2021					9:13:29 AM

NAME: P:\21-01-00\CSAH_24_(TH65-NCL)\Base\Proposed\CSAH24_CP2.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. AUGER, JR.
 SIGNATURE: *[Signature]*
 DATE: 02-24-2021 LICENSE NO. 26511

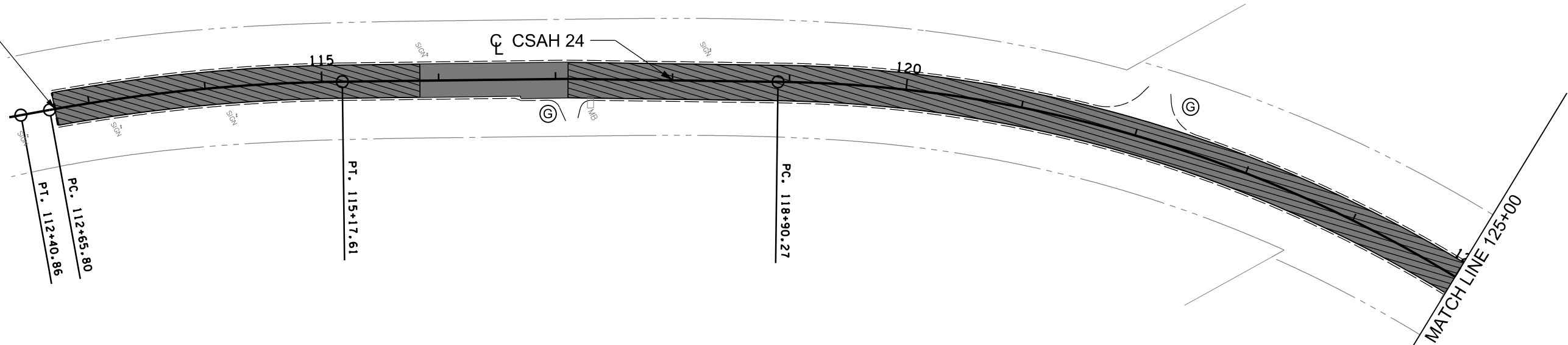
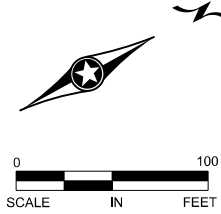
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 DESIGN BY SPH DATE 12-11-20
 CHECKED BY CO DATE 02-03-21

**ANOKA COUNTY
HIGHWAY DEPT.**

STATE AID PROJECT 002-624-029

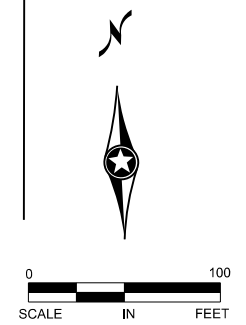
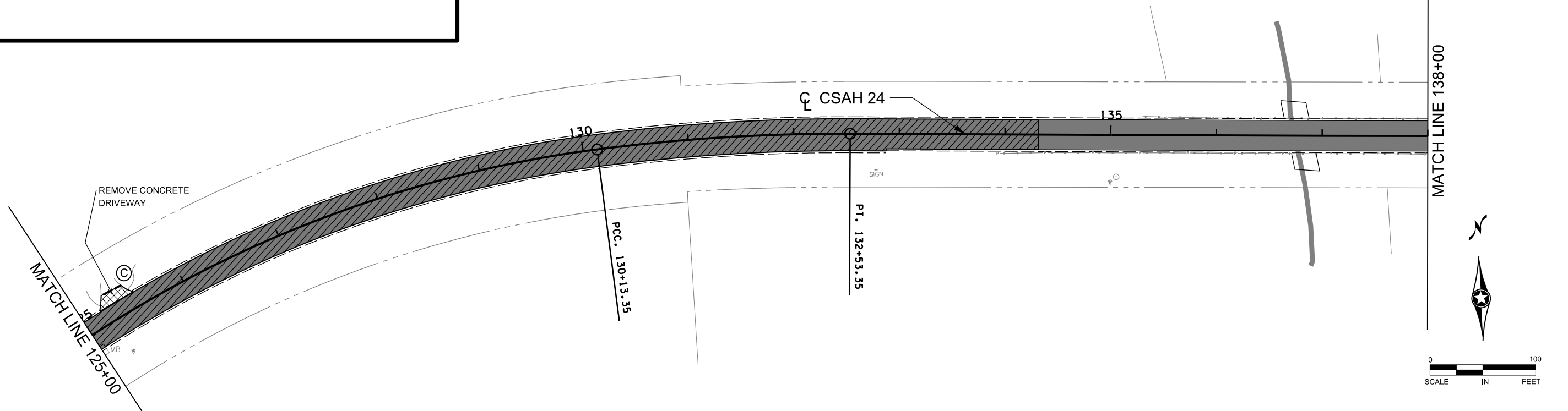
CONSTRUCTION PLAN
 STA 38+00 TO 55+90
 Sheet 11 of 34 Sheets

END EXCEPTION
SAP: 002-624-029
STATION: 112+70.00



LEGEND

(B)	BITUMINOUS	==	CROSS CULVERT
(G)	GRAVEL	■	MAINLINE (RECLAIM)
(C)	CONCRETE	▨	REMOVE AND REPLACE PAVEMENT
- - -	SAWCUT	▩	SUPER TRANSITION AREA
		—	R / W



NO	DATE	BY	CKD	APPR	REVISION		
	02/26/2021					9:13:32 AM	

NAME: P:\21-01-00\CSAH_24_(TH65-NCL)\Base\Proposed\CSAH24_CP3.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. AUGER JR.
 SIGNATURE: *[Signature]*
 DATE: 02-24-2021 LICENSE NO. 26511

DRAWN BY DLD DATE 12-11-20
 DESIGN BY SPH DATE 12-11-20
 CHECKED BY CO DATE 02-03-21

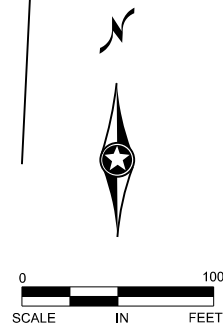
ANOKA COUNTY
HIGHWAY DEPT.

STATE AID PROJECT 002-624-029

CONSTRUCTION PLAN
 STA 112+70 TO 138+00
 Sheet 12 of 34 Sheets

MATCH LINE 138+00

MATCH LINE 152+00

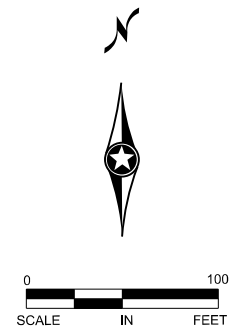


LEGEND

(B) BITUMINOUS	--- CROSS CULVERT
(G) GRAVEL	█ MAINLINE (RECLAIM)
- - - SAWCUT	▨ REMOVE AND REPLACE PAVEMENT
	▩ SUPER TRANSITION AREA
	— R / W

MATCH LINE 152+00

MATCH LINE 164+00



NO	DATE	BY	CKD	APPR	REVISION	
	02/26/2021					9:13:35 AM

NAME: P:\21-01-00\CSAH_24_(TH65-NCL)\Base\Proposed\CSAH24_CP4.dgn

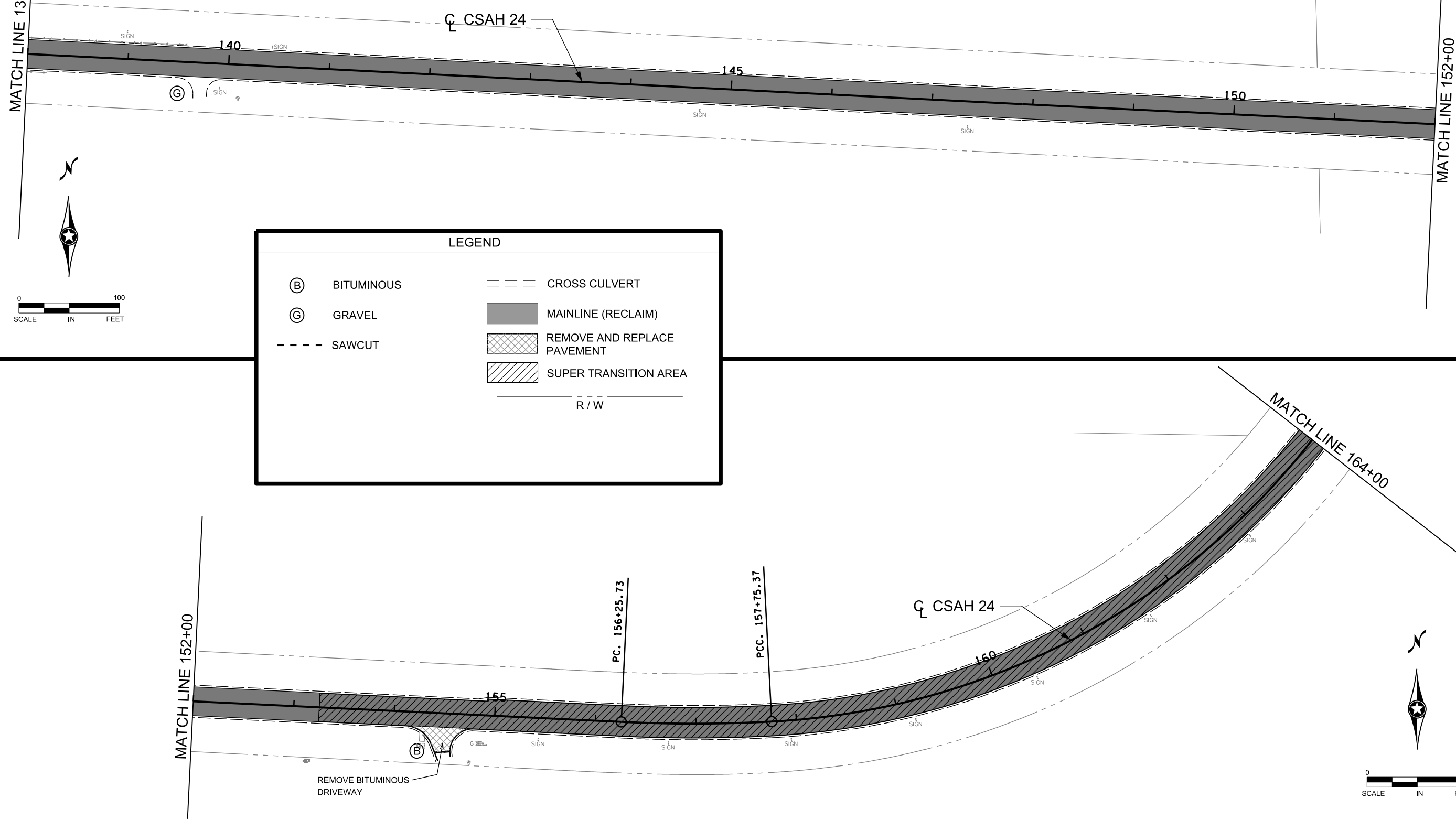
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: GERALD J. AUGER, JR.
 SIGNATURE: *[Signature]*
 DATE: 02-24-2021 LICENSE NO. 26511

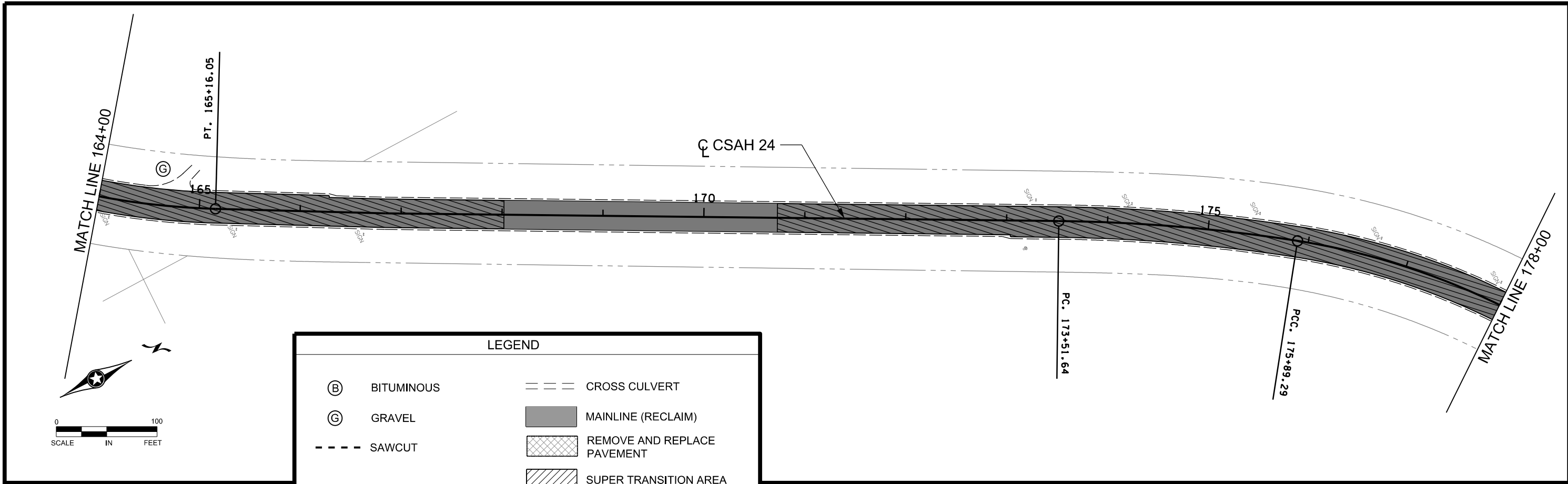
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 DESIGN BY: SPH DATE: 02/26/2021
 CHECKED BY: CO DATE: 02-03-21

**ANOKA COUNTY
HIGHWAY DEPT.**

STATE AID PROJECT 002-624-029

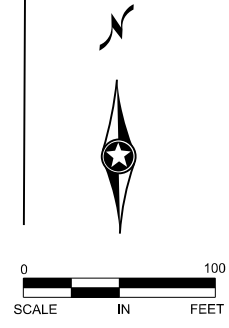
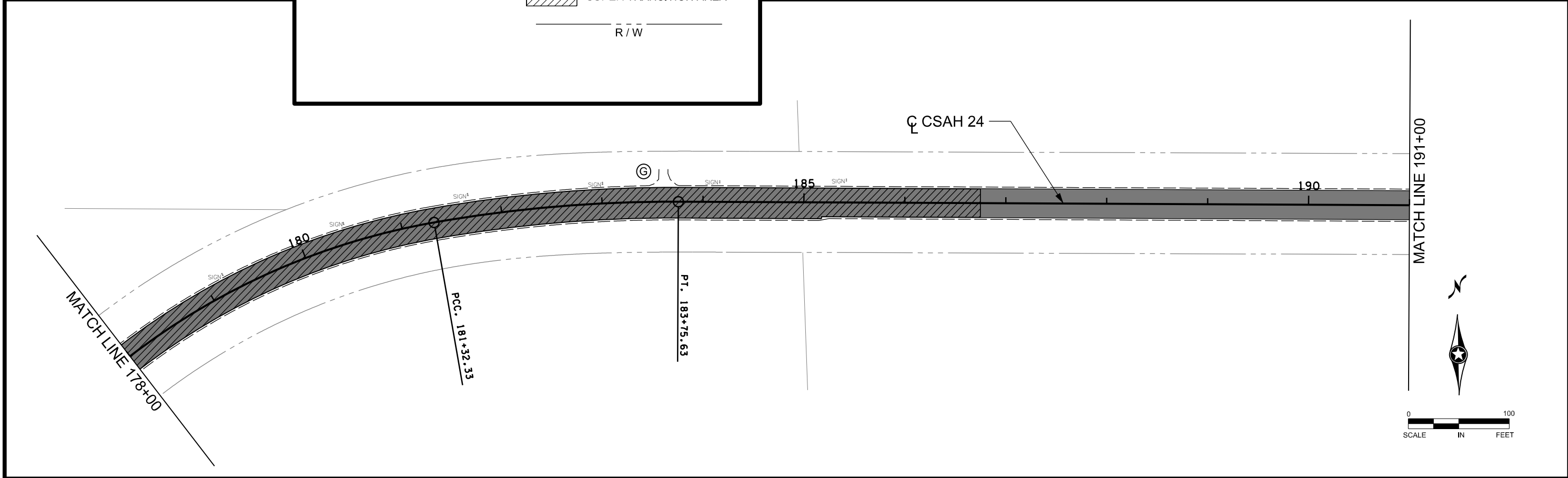
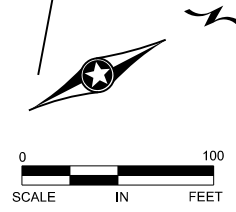
CONSTRUCTION PLAN
 STA 138+00.00 TO 164+00.00
 Sheet 13 of 34 Sheets





LEGEND

(B)	BITUMINOUS	---	CROSS CULVERT
(G)	GRAVEL	[Solid Grey Box]	MAINLINE (RECLAIM)
- - -	SAWCUT	[Cross-hatched Box]	REMOVE AND REPLACE PAVEMENT
		[Diagonal-hatched Box]	SUPER TRANSITION AREA
		---	R / W




NO	DATE	BY	CKD	APPR	REVISION	
	02/26/2021					9:13:38 AM

NAME: P:\21-01-00\CSAH_24_(TH65-NCL)\Base\Proposed\CSAH24_CP5.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. AUGER JR.
 SIGNATURE: *[Signature]*
 DATE: 02-24-2021 LICENSE NO. 26511

DRAWN BY: DLD DATE: 12-11-20
 DESIGN BY: SPH DATE: 12-11-20
 CHECKED BY: CO DATE: 02-03-21



**ANOKA COUNTY
HIGHWAY DEPT.**

STATE AID PROJECT 002-624-029

CONSTRUCTION PLAN

STA 164+00 TO 191+00

Sheet 14 of 34 Sheets

MATCH LINE 191+00

MATCH LINE 205+00

CSAH 24

PC. 203+35.90

PCC. 204+52.23

195

200

205



LEGEND

(B)	BITUMINOUS	---	CROSS CULVERT
(G)	GRAVEL	[Solid Grey Box]	MAINLINE (RECLAIM)
---	SAWCUT	[Cross-hatched Box]	REMOVE AND REPLACE PAVEMENT
		[Diagonal-hatched Box]	SUPER TRANSITION AREA
		---	R / W

MATCH LINE 205+00

MATCH LINE 217+00

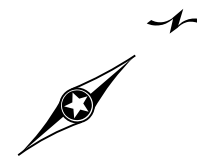
CSAH 24

PC. 215+39.33

210

(B)

E. BETHEL BLVD



NO	DATE	BY	CKD	APPR	REVISION	
	02/26/2021					9:13:40 AM

NAME: P:\21-01-00\CSAH_24_(TH65-NCL)\Base\Proposed\CSAH24_CP6.dgn

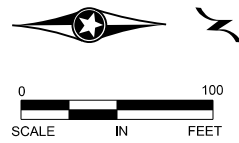
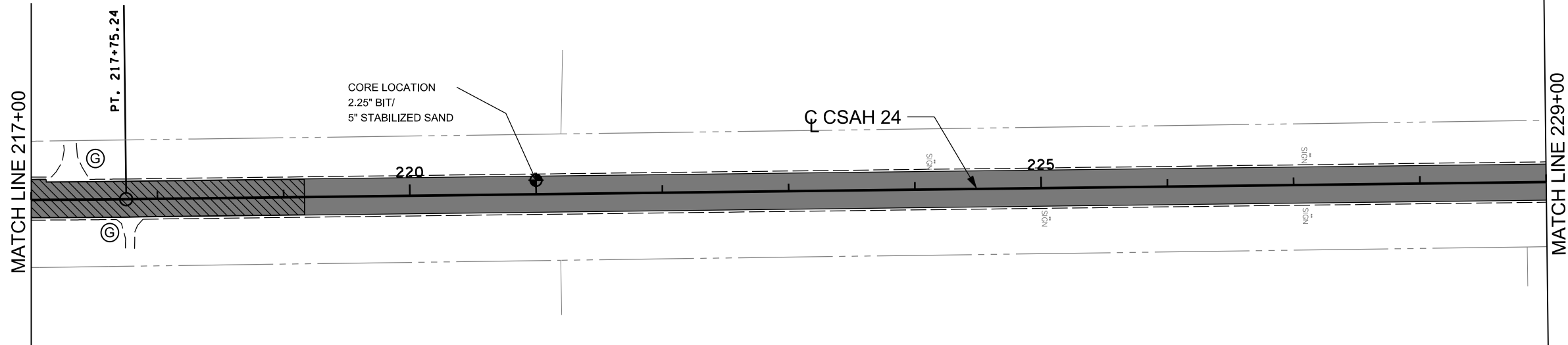
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: GERALD J. AUGER JR.
 SIGNATURE: *[Signature]*
 DATE: 02-24-2021 LICENSE NO. 26511

DRAWN BY DLD DATE 12-11-20
 DESIGN BY SPH DATE 12-11-20
 CHECKED BY CO DATE 02-03-21

**ANOKA COUNTY
HIGHWAY DEPT.**

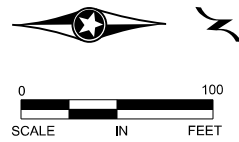
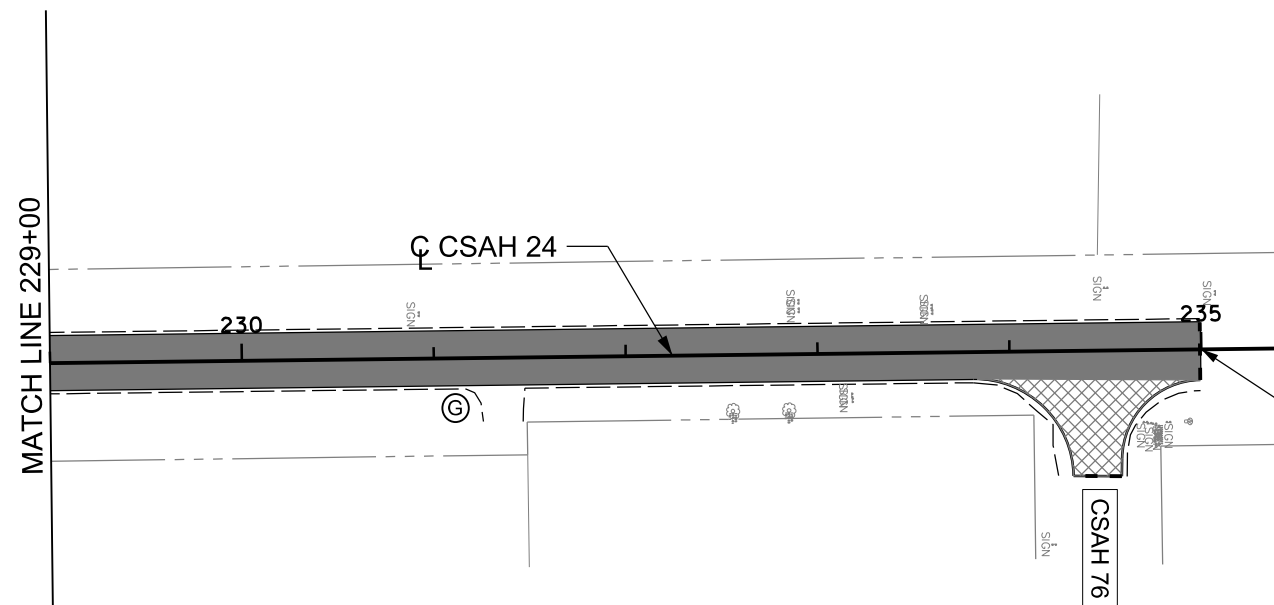
STATE AID PROJECT 002-624-029

CONSTRUCTION PLAN
 STA 191+00 TO 217+00
 Sheet 15 of 34 Sheets



LEGEND

ⓑ BITUMINOUS	--- CROSS CULVERT
Ⓒ GRAVEL	█ MAINLINE (RECLAIM)
⊕ CORE LOCATION	▨ REMOVE AND REPLACE PAVEMENT
--- SAWCUT	▩ SUPER TRANSITION AREA
	----- R / W



NO	DATE	BY	CKD	APPR	REVISION	
	02/26/2021					9:13:41 AM

NAME: P:\21-01-00\CSAH_24_(TH65-NCL)\Base\Proposed\CSAH24_CP7.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. AUGER JR.
 SIGNATURE: *[Signature]*
 DATE: 02-24-2021 LICENSE NO. 26511

DRAWN BY DLD DATE 12-11-20
 DESIGN BY SPH DATE 12-11-20
 CHECKED BY CO DATE 02-03-21

**ANOKA COUNTY
HIGHWAY DEPT.**

STATE AID PROJECT 002-624-029

CONSTRUCTION PLAN
 STA 217+00 TO 235+00
 Sheet 16 of 34 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.

PAVEMENT MARKING TABULATION		
ITEM	UNIT	TOTAL QUANTITY
4" SOLID LINE WHITE - MULTI COMP	LIN FT	34179
2 8" DOTTED LINE WHITE - MULTI COMP	LIN FT	36
4" SOLID LINE YELLOW - MULTI COMP	LIN FT	6262
4" SOLID DOUBLE LINE YELLOW - MULTI COMP	LIN FT	8432
1 4" BROKEN LINE YELLOW - MULTI COMP	LIN FT	1642
24" SOLID LINE WHITE - PREF THERMO ESR GR IN	SQ FT	56
3'x6' ZEBRA CROSSWALK - PREF THERMO ESR GR IN	SQ FT	234
PAVEMENT MESSAGE (RIGHT ARROW) - PREFORMED THERMOPLASTIC	SQ FT	31

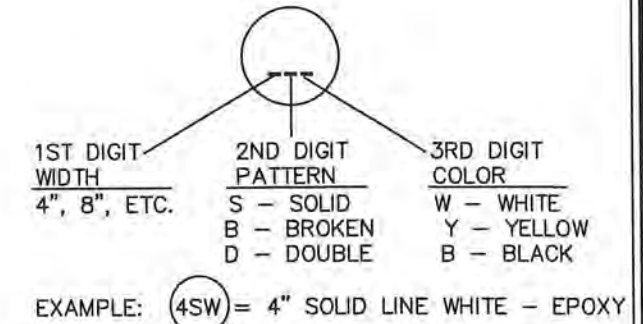
- 1 10' STRIPE, 40' GAP
- 2 3' STRIPE, 12' GAP

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	CHKD	APPR	REVISION

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, P.E.

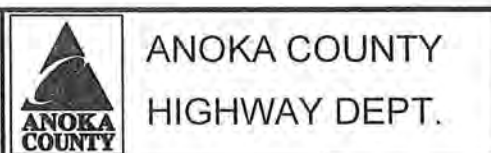
SIGNATURE: *[Signature]*

DATE: 3-1-4 LICENSE NO: 45732

DRAWN BY: TMV DATE: 11/25/20

DESIGN BY: TMV DATE: 11/25/20

CHECKED BY: CD DATE: 01/27/21



STATE AID PROJECT 002-624-029

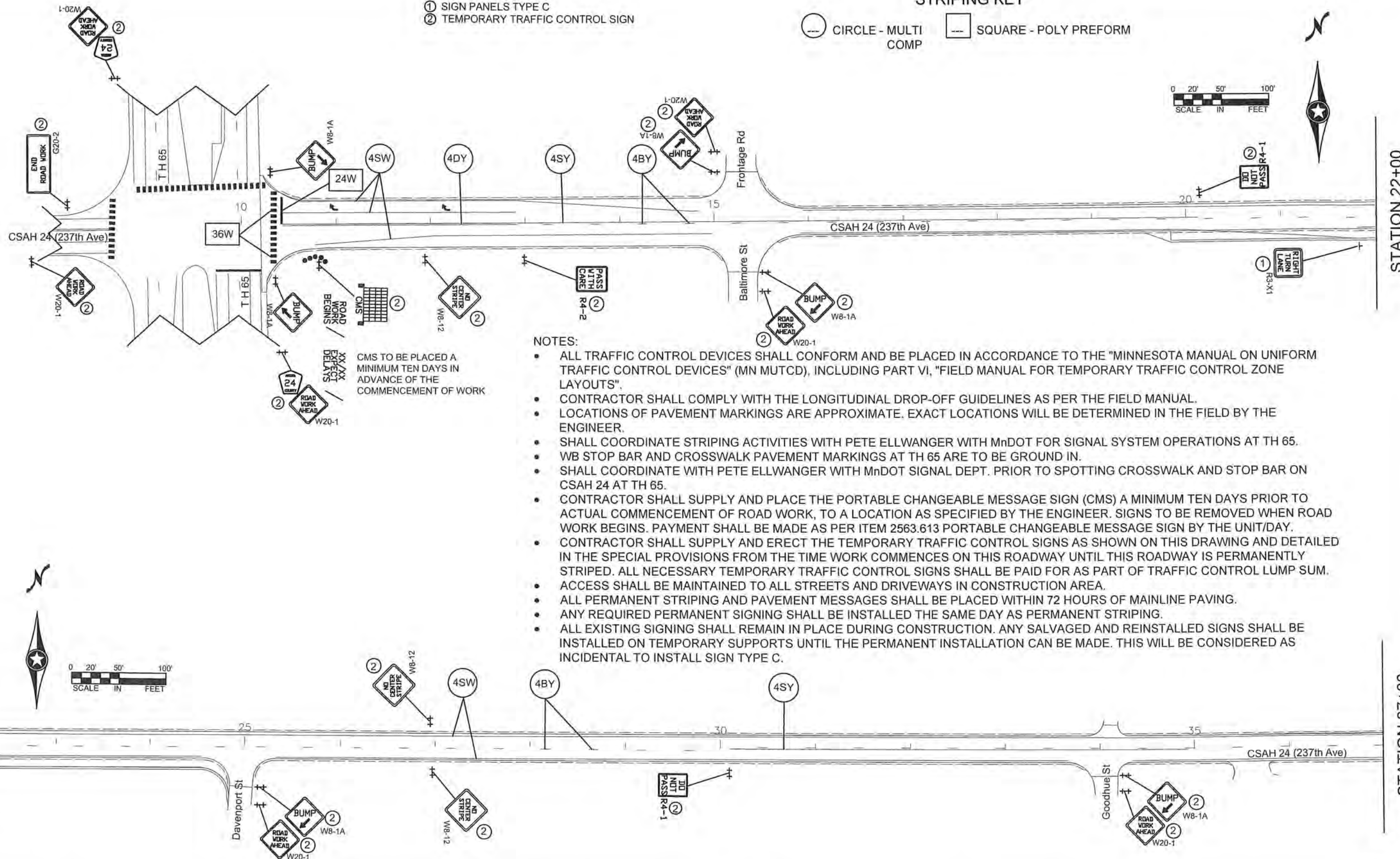
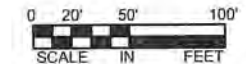
**PERMANENT MARKING
TABULATION**

Sheet 17 of 34 Sheets

SIGN NOTES:
 ① SIGN PANELS TYPE C
 ② TEMPORARY TRAFFIC CONTROL SIGN

STRIPING KEY

○ CIRCLE - MULTI COMP
 □ SQUARE - POLY PREFORM



NOTES:

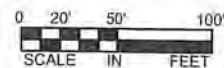
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CMS TO BE PLACED A MINIMUM TEN DAYS IN ADVANCE OF THE COMMENCEMENT OF WORK

EXCESS DELAYS

STATION 22+00

STATION 37+00



NO	DATE	BY	CHKD	APPR	REVISION

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, P.E.
 SIGNATURE:
 DATE: 3-1-21 LICENSE NO. 46732

DRAWN BY: TMV DATE 11/24/20
 DESIGN BY: TMV DATE 11/24/20
 CHECKED BY: CO DATE 01/27/21



ANOKA COUNTY
 HIGHWAY DEPT.

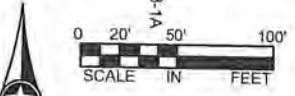
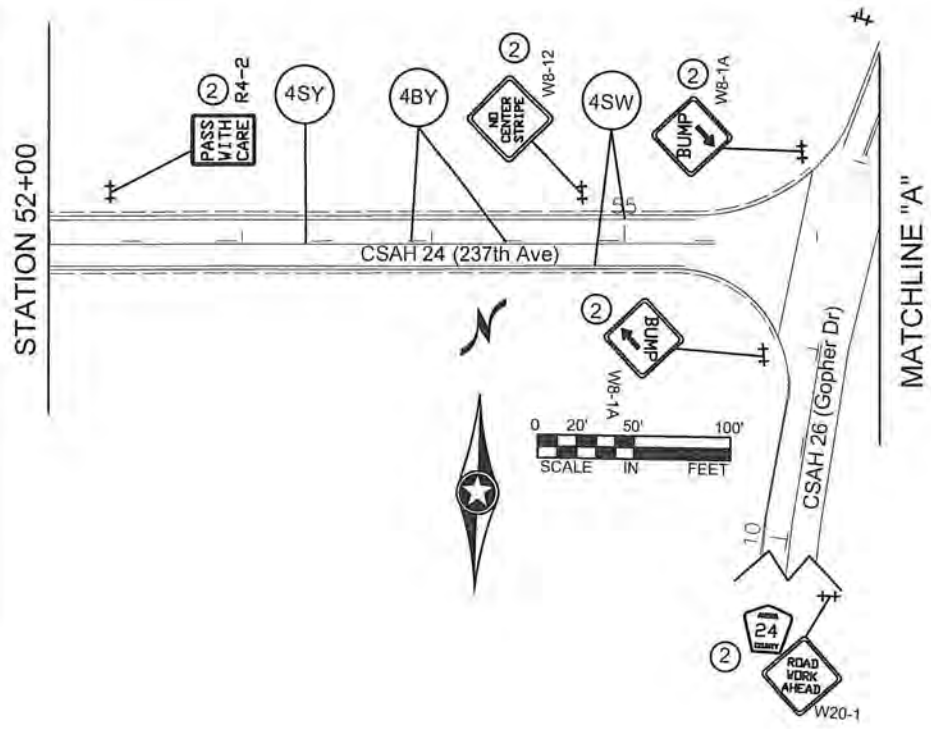
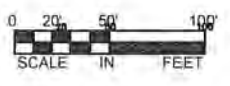
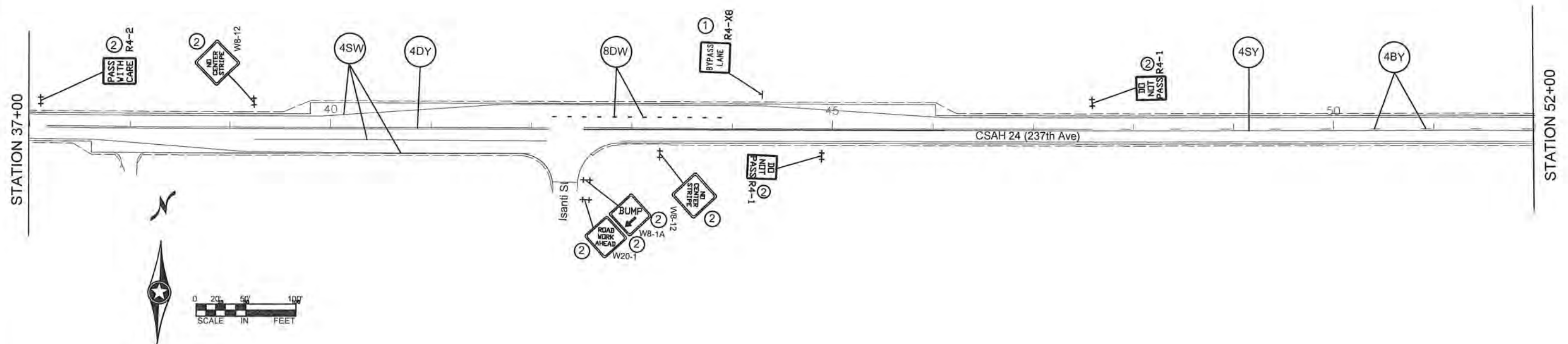
STATE AID PROJECT 002-624-029

SIGNING & STRIPING PLAN
 Sheet 18 of 34 Sheets

SIGN NOTES:
 ① SIGN PANELS TYPE C
 ② TEMPORARY TRAFFIC CONTROL SIGN

STRIPING KEY

○ CIRCLE - MULTI COMP
 □ SQUARE - POLY PREFORM



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NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\21-01-00\CSAH_24_(TH65-NCL)\BaseTrafficSigning & Striping.dwg

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ANOKA COUNTY
 HIGHWAY DEPT.

STATE AID PROJECT 002-624-029

SIGNING & STRIPING PLAN
 Sheet 19 of 34 Sheets

STRIPING KEY

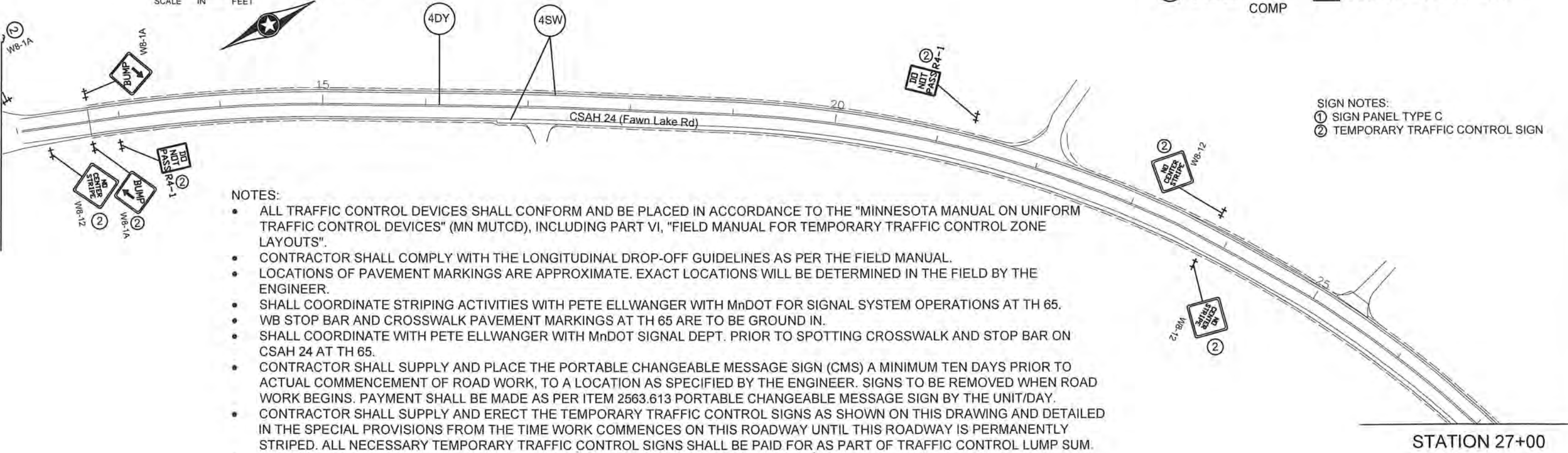
CIRCLE - MULTI COMP
 SQUARE - POLY PREFORM

SIGN NOTES:
 ① SIGN PANEL TYPE C
 ② TEMPORARY TRAFFIC CONTROL SIGN

0 20' 50' 100'
 SCALE IN FEET



MATCHLINE "A"



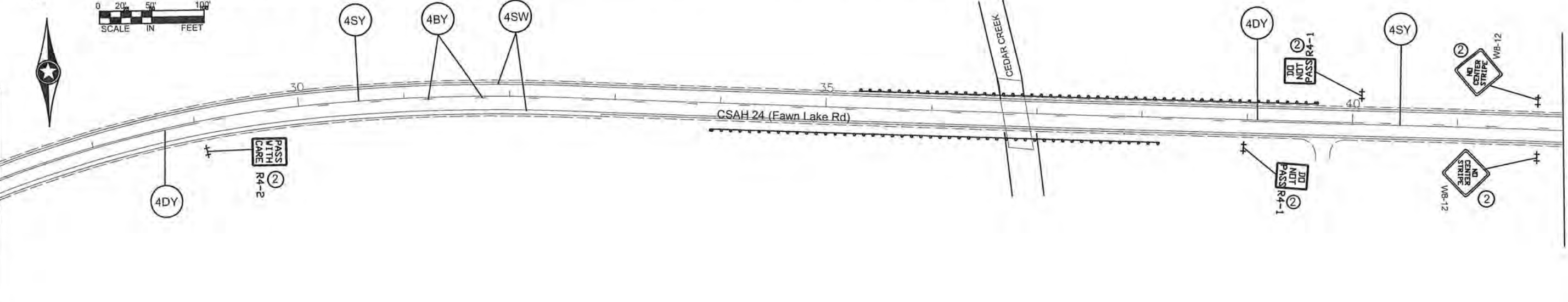
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0 20' 50' 100'
 SCALE IN FEET



STATION 27+00



STATION 42+00

NO	DATE	BY	CHKD	APPR	REVISION

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 SIGNATURE: *[Signature]*
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ANOKA COUNTY
HIGHWAY DEPT.

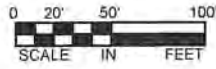
STATE AID PROJECT 002-624-029

SIGNING & STRIPING PLAN
 Sheet 20 of 34 Sheets

SIGN NOTES:
 ① SIGN PANELS TYPE C
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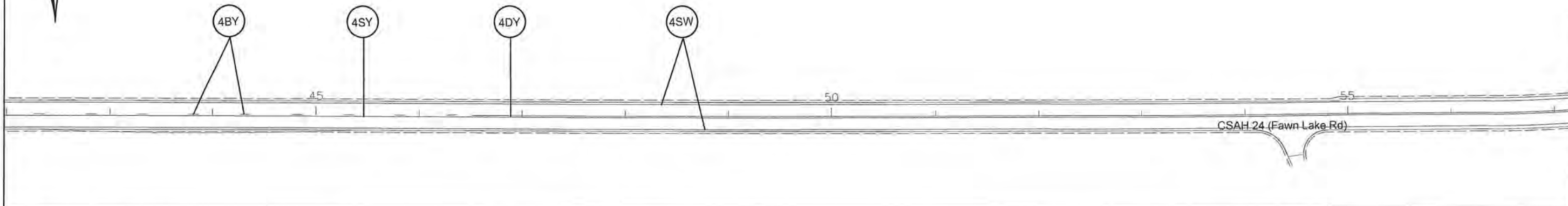
STRIPING KEY

○ CIRCLE - MULTI COMP
 □ SQUARE - POLY PREFORM



STATION 42+00

STATION 57+00

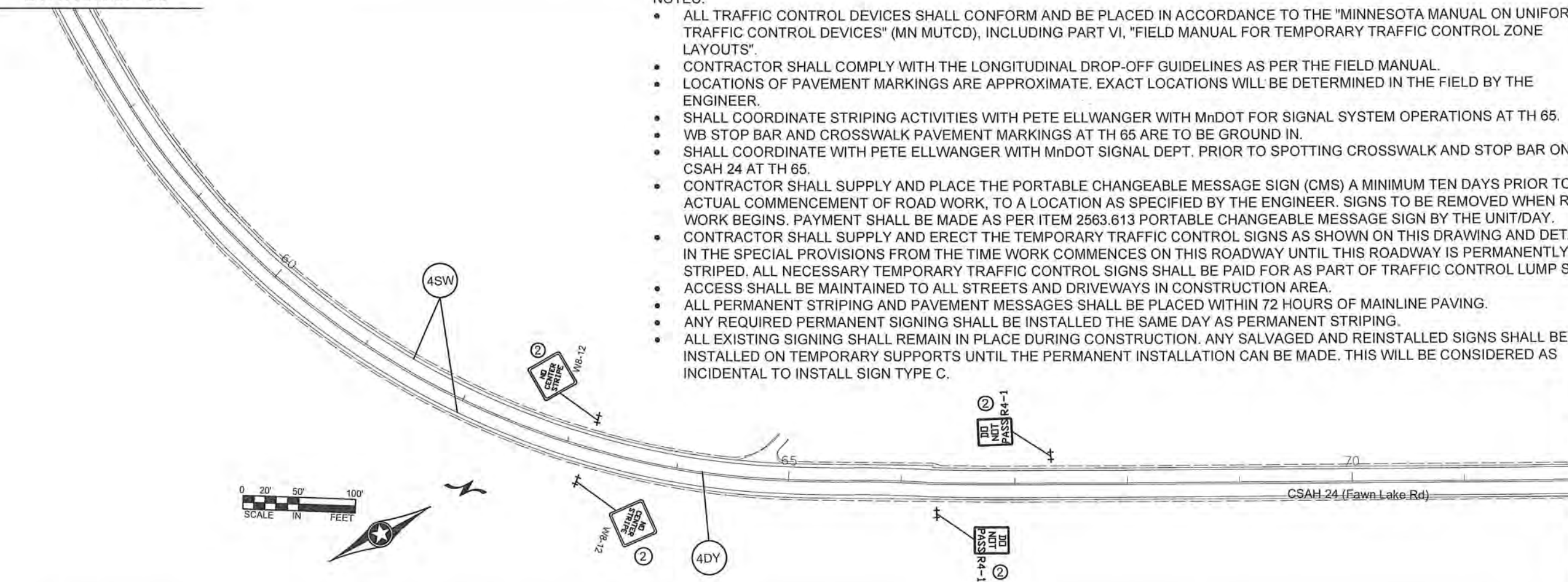
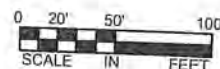


STATION 57+00

STATION 72+00

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PRINT NAME: JOSEPH J. MACPHERSON, P.E.

SIGNATURE: *[Signature]*

DATE: 3-1-21 LICENSE NO: 46732

DRAWN BY: TMV DATE: 11/24/20

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CHECKED BY: CO DATE: 01/27/21



ANOKA COUNTY
HIGHWAY DEPT.

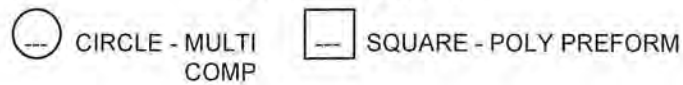
STATE AID PROJECT 002-624-029

SIGNING & STRIPING PLAN

Sheet 21 of 34 Sheets

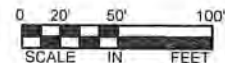
NO	DATE	BY	CKD	APPR	REVISION
NAME: P:\21-01-00\CSAH_24_(TH65-NCL)\Base\Traffic\Signing & Striping.dwg					

STRIPING KEY



SIGN NOTES:

- ① SIGN PANELS TYPE C
- ② TEMPORARY TRAFFIC CONTROL SIGN



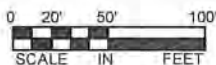
STATION 72+00

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STATION 87+00

STATION 87+00



CSAH 24 (Fawn Lake Rd)

STATION 102+00

5 OF 7

NO	DATE	BY	CKD	APPR	REVISION

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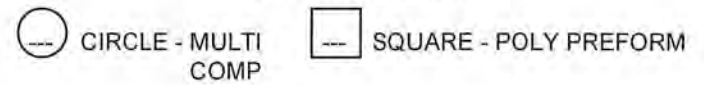
ANOKA COUNTY
HIGHWAY DEPT.

STATE AID PROJECT 002-624-029

SIGNING & STRIPING PLAN
 Sheet 22 of 34 Sheets

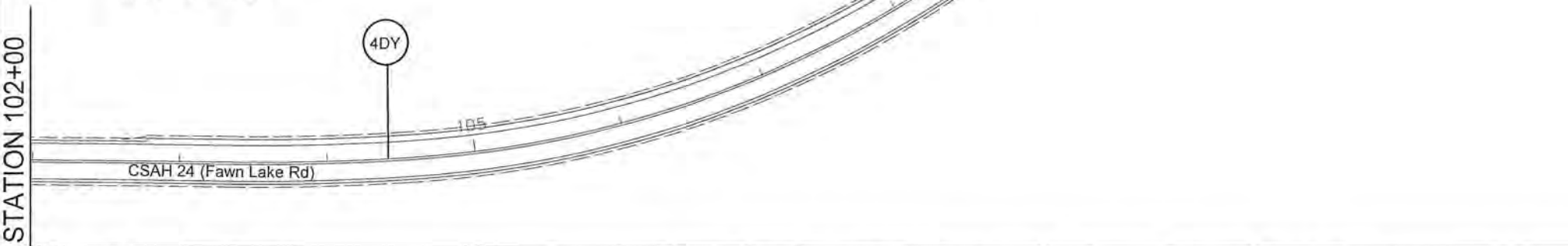
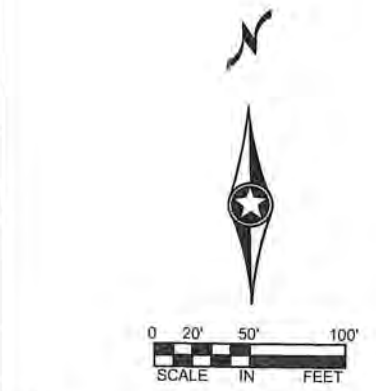
STATION 117+00

STRIPING KEY



SIGN NOTES:
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 ② TEMPORARY TRAFFIC CONTROL SIGN

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ANOKA COUNTY
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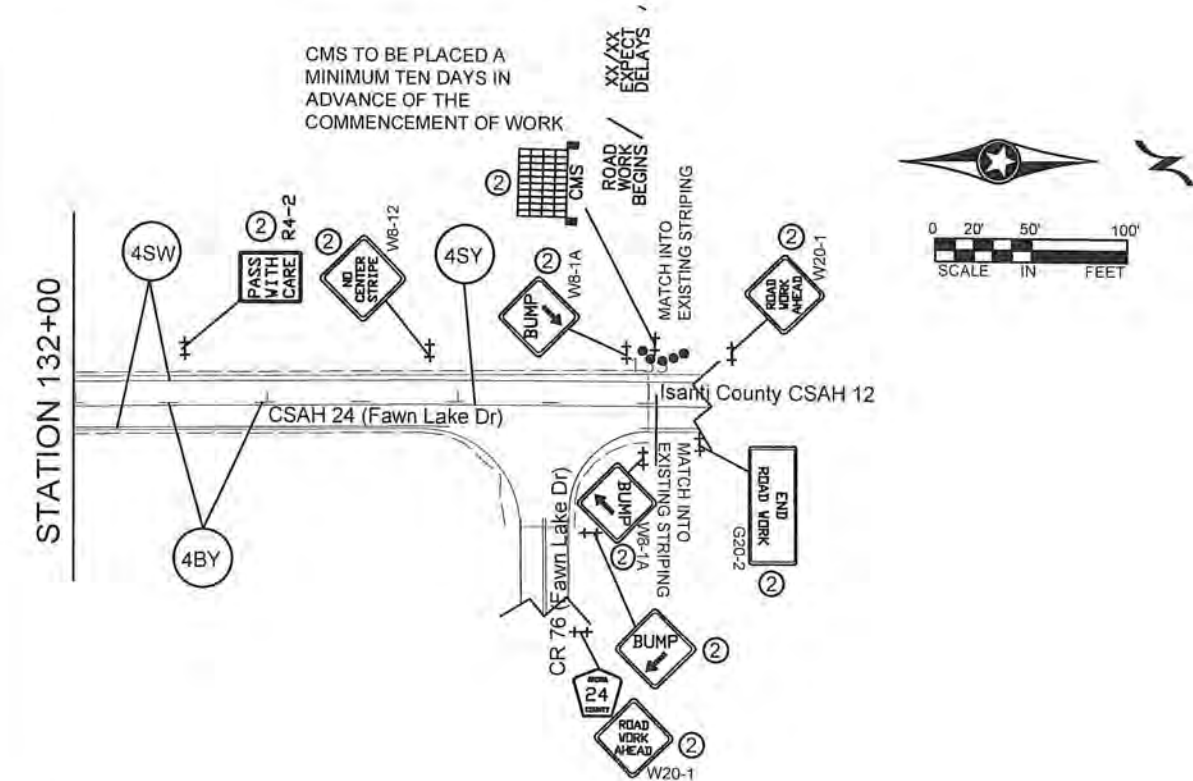
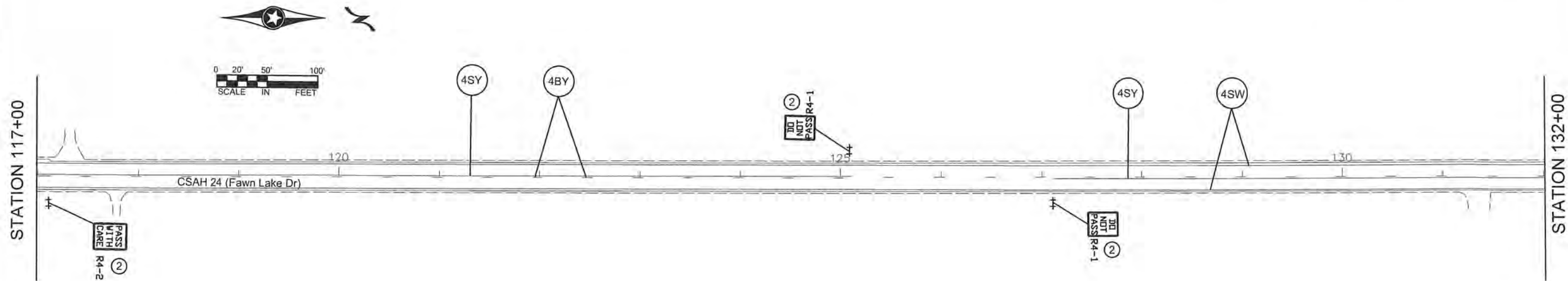
STATE AID PROJECT 002-624-029

SIGNING & STRIPING PLAN
 Sheet 23 of 34 Sheets

SIGN NOTES:
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 ② TEMPORARY TRAFFIC CONTROL SIGN

STRIPING KEY

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- 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. 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.

NO	DATE	BY	CKD	APPR	REVISION

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, P.E.
 SIGNATURE:
 DATE: 3-1-21 LICENSE NO. 46732

DRAWN BY: TMV DATE: 11/24/20
 DESIGN BY: TMV DATE: 11/24/20
 CHECKED BY: CO DATE: 01/27/21

ANOKA COUNTY
 HIGHWAY DEPT.

STATE AID PROJECT 002-624-029

TEMPORARY TRAFFIC CONTROL SIGNS							
M.U.T.C.D. CODE	SIZE	INSERT	QUANTITY	No. POST	MOUNTING HEIGHT (TO MOUNTING EDGE)	FT.	
W8-12	48" x 48"		18	2	7.0'		
R4-1	24" x 30"		14	1	7.0'		
R4-2	24" x 30"		7	1	7.0'		
G20-2	36" x 18"		2	2	7.0'		
W8-1	48" x 48"		AS NEEDED				
W8-1A	48" x 48"		AS NEEDED (ESTIMATED 15)				
W8-8	48" x 48"		AS NEEDED				
W8-9	48" x 48"		AS NEEDED				
	48" x 48"		AS NEEDED				
W8-11	48" x 48"		AS NEEDED				
M1-6	24" x 24"		4				
W20-1	48" x 48"		AS NEEDED (ESTIMATED 12)				
REFLECTORIZED REBOUNDABLE DRUM			AS NEEDED (ESTIMATED 10)				
CMS sign to be placed a minimum of ten days prior to actual commencement of road work. Signs to be removed when road work begins.			2 AT 10 DAYS EA				

SIGN PANELS TYPE C							
M.U.T.C.D. CODE	SIZE	INSERT	QUANTITY	PANEL AREA	TOTAL AREA	MOUNTING POST PER INSTALLATION	MOUNTING HEIGHT To pavement edge
				SQ. FT.	SQ. FT.		
R4-8	30" x 30"		1	6.25	6.25	1	7.0'
R3-X1	30" x 30"		1	6.25	6.25	1	7.0'
TOTAL TYPE C SIGNS □ FT					12.50		
PROJECT TOTALS □ FT					12.50		

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

STATION 102+00

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\21-01-00\CSAH_24_(TH65-NCL)\BaseTrafficSigning & Striping.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: JOSEPH J. MACPHERSON, P.E.
SIGNATURE:
DATE: 7-1-21 LICENSE NO. 46732

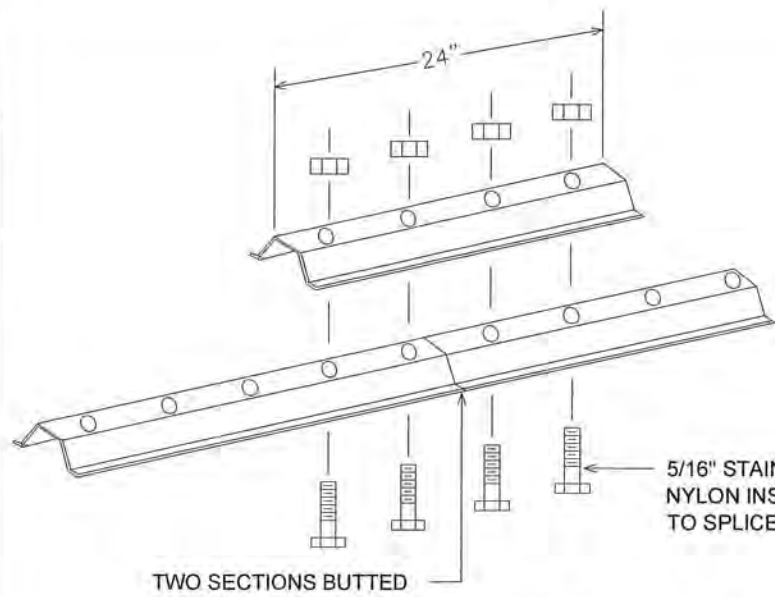
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DESIGN BY: TMV DATE: 11/24/20
CHECKED BY: CO DATE: 01/27/21



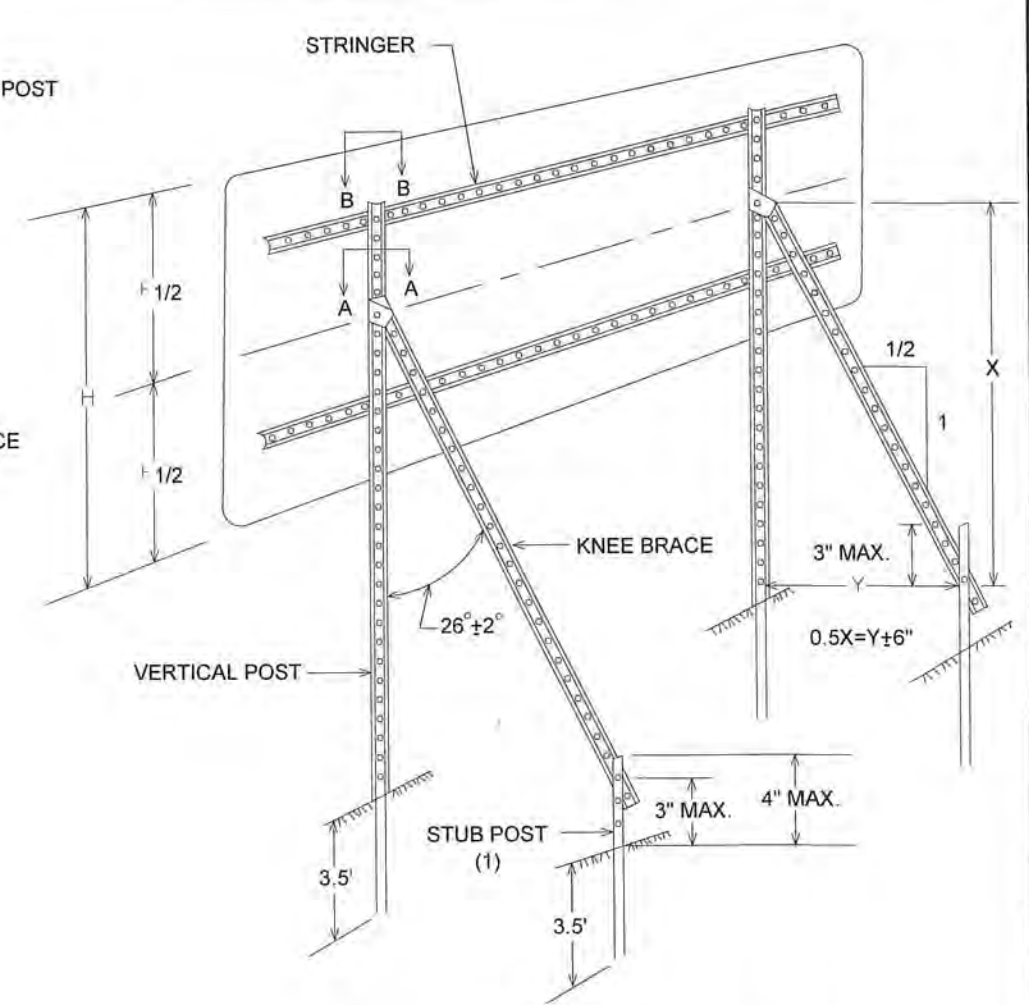
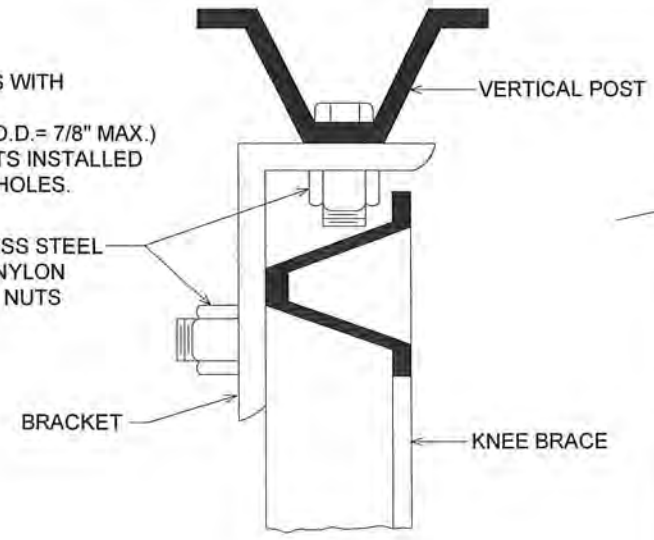
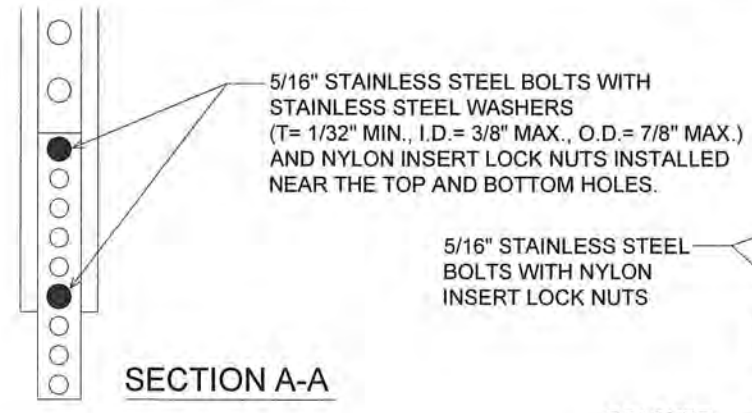
ANOKA COUNTY
HIGHWAY DEPT.

STATE AID PROJECT 002-624-029

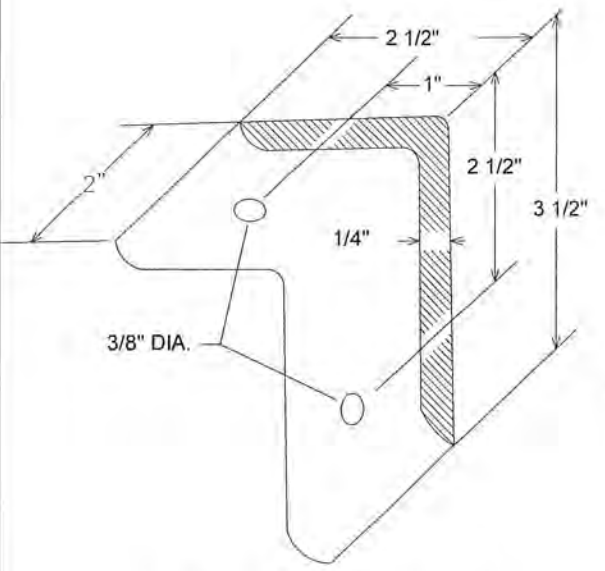
SIGNING & STRIPING QUANTITIES
Sheet 25 of 34 Sheets



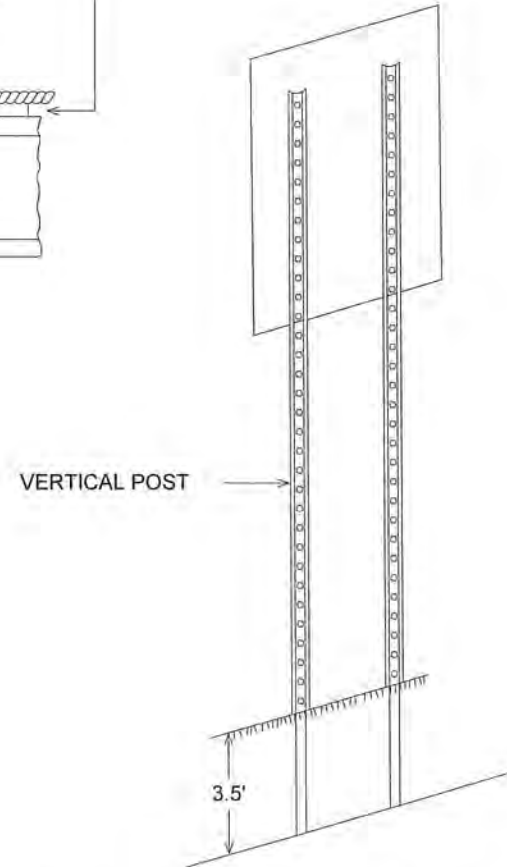
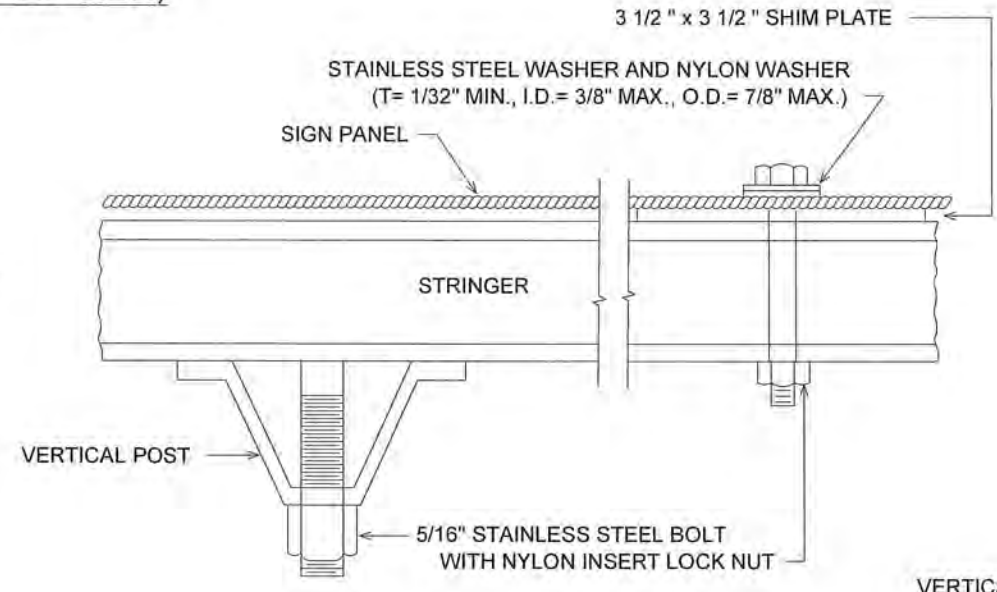
LATERAL BRACE OR STRINGER SPLICE DETAIL (EXPLODED VIEW)



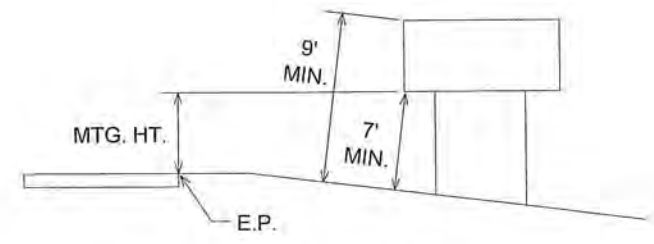
TYPICAL "A-FRAME" INSTALLATION TYPE "D" SIGNS



A-FRAME BRACKET (STEEL MN/DOT 3306 GALVANIZED PER MN/DOT 3394)



TYPICAL INSTALLATION 36" AND LARGER TYPE "C" SIGNS



TYPICAL MOUNTING

(1) OFFSET STUB POST 1' TOWARD ROADWAY RELATIVE TO VERTICAL POST.

TYPE C & D SIGN STRUCTURAL DETAILS

NO	DATE	BY	CHKD	APPR	REVISION

NAME: P:\21-01-00\CSAH_24_(TH65-NCL)\Base\Traffic\Sign&Stripe Details.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: JOSEPH J. MASPHERSON, P.E.

SIGNATURE: *[Signature]*

DATE: 3-1-21 LICENSE NO. 46732

DRAWN BY: TMV DATE: 11/25/20

DESIGN BY: TMV DATE: 11/25/20

CHECKED BY: CO DATE: 01/27/21

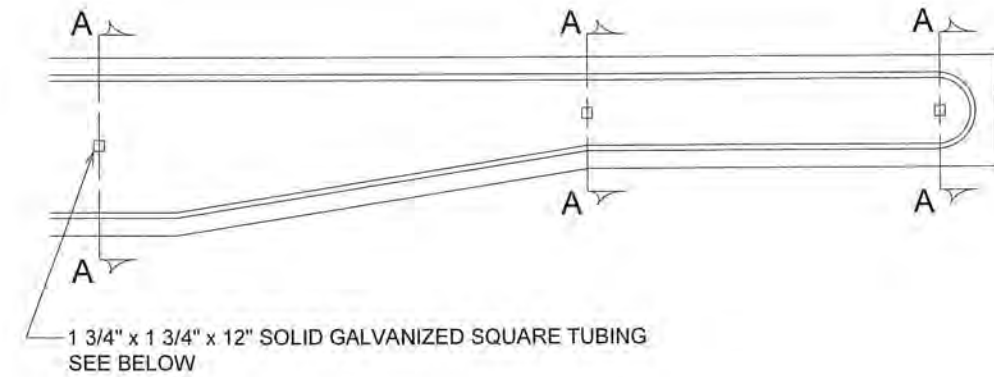
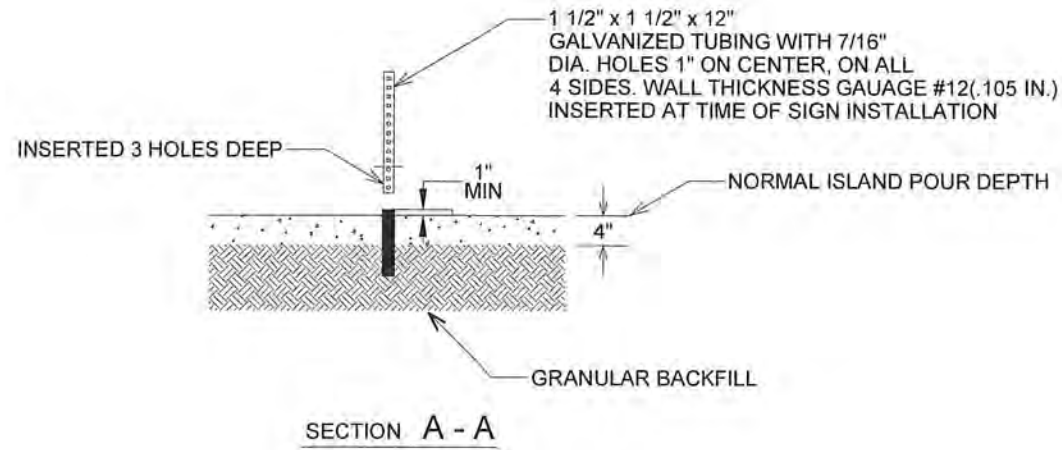


ANOKA COUNTY HIGHWAY DEPT.

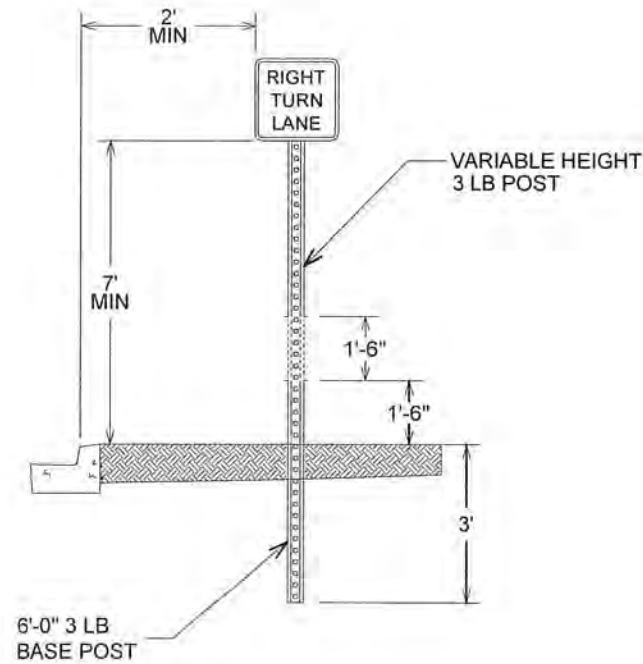
STATE AID PROJECT 002-624-029

SIGNING & STRIPING DETAILS

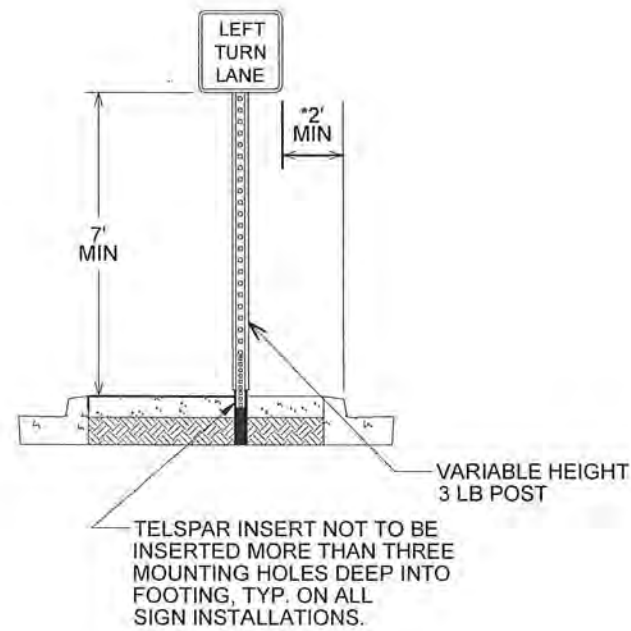
Sheet 26 of 34 Sheets



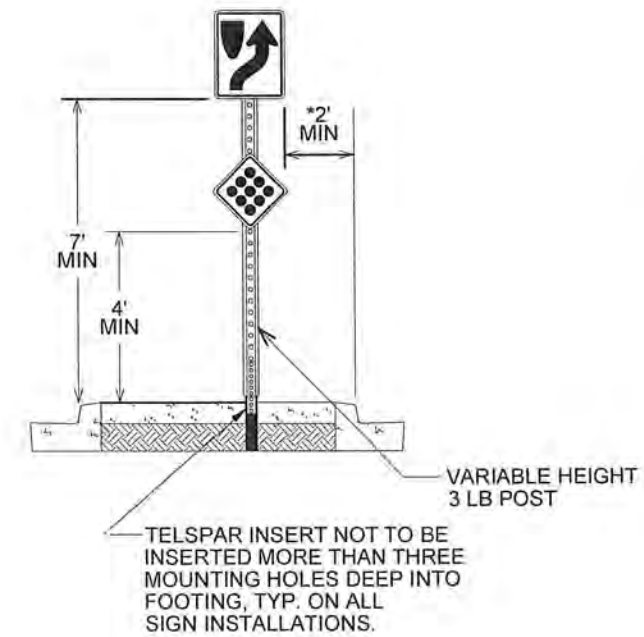
GROUND POST MOUNT SIGN
INSTALLATION TYPICAL



ISLAND MOUNT BREAK-AWAY SIGN
INSTALLATION TYPICAL



ISLAND MOUNT BREAK-AWAY SIGN
SIGN INSTALLATION TYPICAL
KEEP RIGHT/CLUSTER



*1' MIN FOR NARROW URBAN LOCATIONS

INSTALLATION NEAR SIDEWALK (MN MUTCD)
The minimum height, measured vertically from the bottom of the sign to the sidewalk, of signs installed above sidewalks shall be 7 feet. If the bottom of a secondary sign that is mounted below another sign is mounted lower than 7 feet above a pedestrian sidewalk or pathway, the secondary sign shall not project more than 4 inches into the pedestrian facility.

NO	DATE	BY	CHKD	APPR	REVISION

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PRINT NAME: JOSEPH J. MACPHERSON, P.E.

SIGNATURE: *[Signature]*

DATE: 3-1-24 LICENSE NO. 46732

DRAWN BY: TMV DATE: 11/25/20

DESIGN BY: TMV DATE: 11/25/20

CHECKED BY: CD DATE: 01/27/21

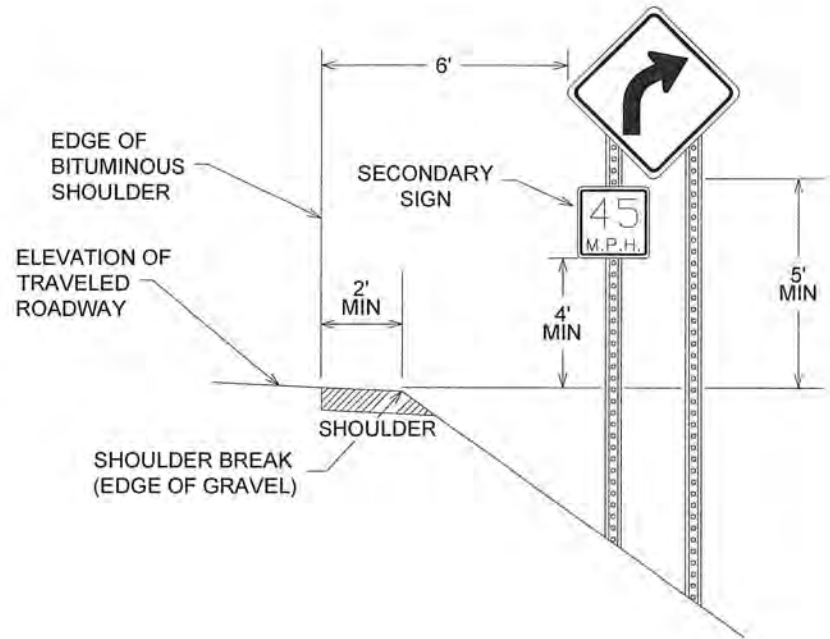


ANOKA COUNTY
HIGHWAY DEPT.

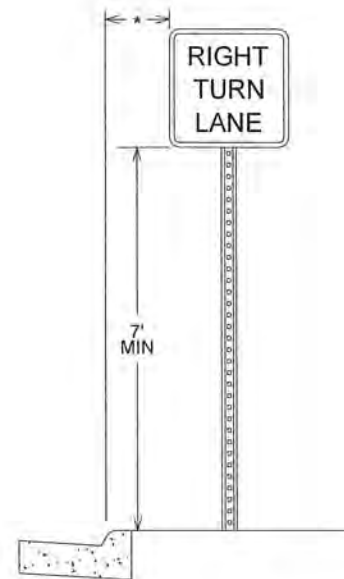
STATE AID PROJECT 002-624-029

SIGNING & STRIPING
DETAILS

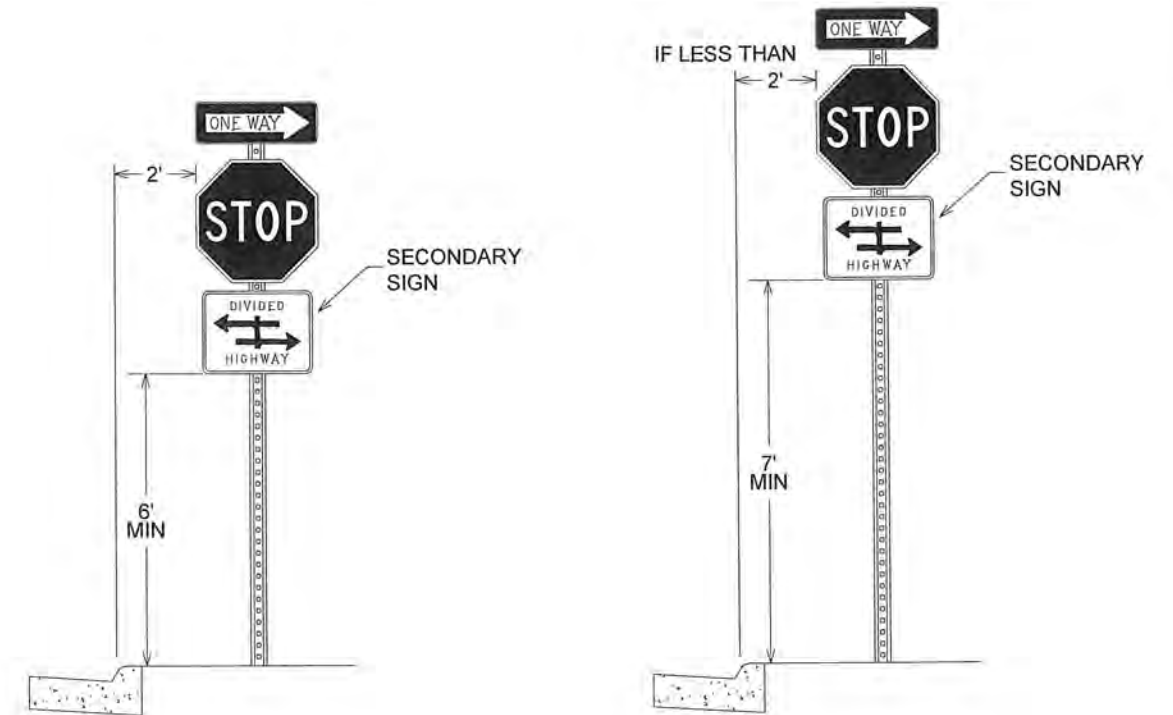
TYPICAL SIGN PLACEMENT
(RURAL)



TYPICAL SIGN PLACEMENT
(URBAN)



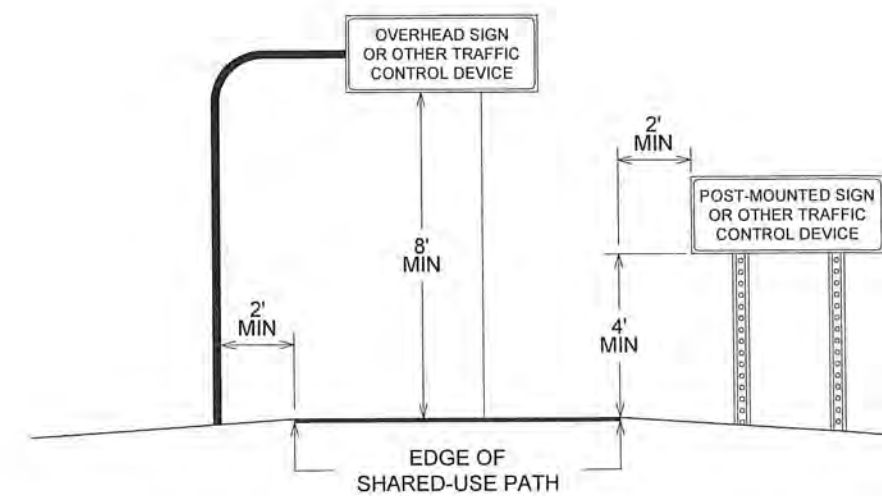
*2' - NARROW BOULEVARD (≤ 8' WIDE)
6' - WIDE BOULEVARD



NOTES:

- ALL DIMENSIONS ARE MINIMUMS
- MAINTAIN A DISTANCE OF 2' BETWEEN SIGNS AND BITUMINOUS TRAIL
- 7' SIGN CLEARANCE IF A 2' DISTANCE BETWEEN SIGN AND BITUMINOUS TRAIL CANNOT BE MAINTAINED

TYPICAL SIGN PLACEMENT
SHARED-USE PATH



NO	DATE	BY	CHKD	APPR	REVISION

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 PRINT NAME: JOSEPH J. MACPHERSON, P.E.
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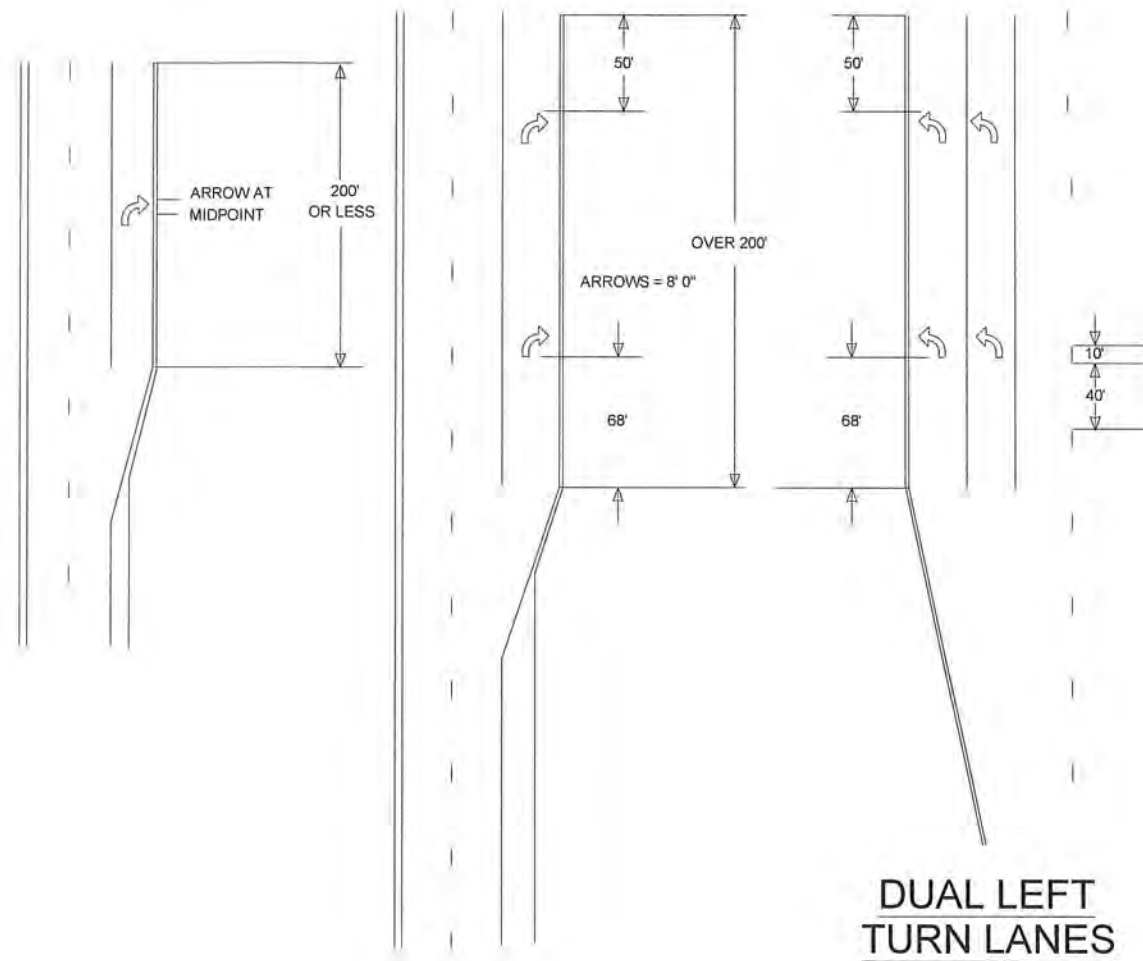
ANOKA COUNTY
HIGHWAY DEPT.

STATE AID PROJECT 002-624-029

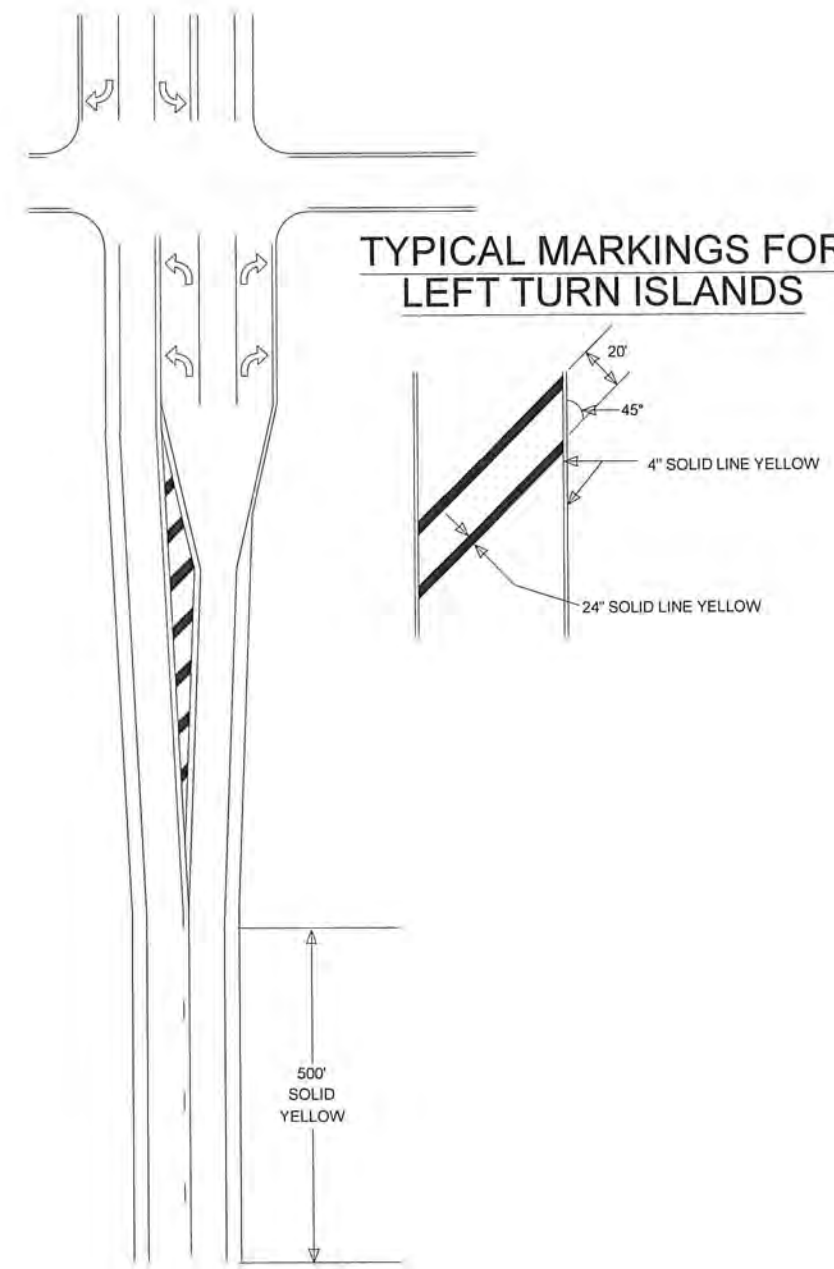
SIGNING & STRIPING
DETAILS

Sheet 28 of 34 Sheets

**TYPICAL MESSAGE PLACEMENT
FOR TURN LANES**



**TYPICAL MARKINGS FOR
LEFT TURN ISLANDS**



NO	DATE	BY	CKD	APPR	REVISION

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, P.E.
 SIGNATURE: *[Signature]*
 DATE: 3-1-21 LICENSE NO. 48732

DRAWN BY TMV DATE 11/25/20
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 CHECKED BY CO DATE 01/27/21

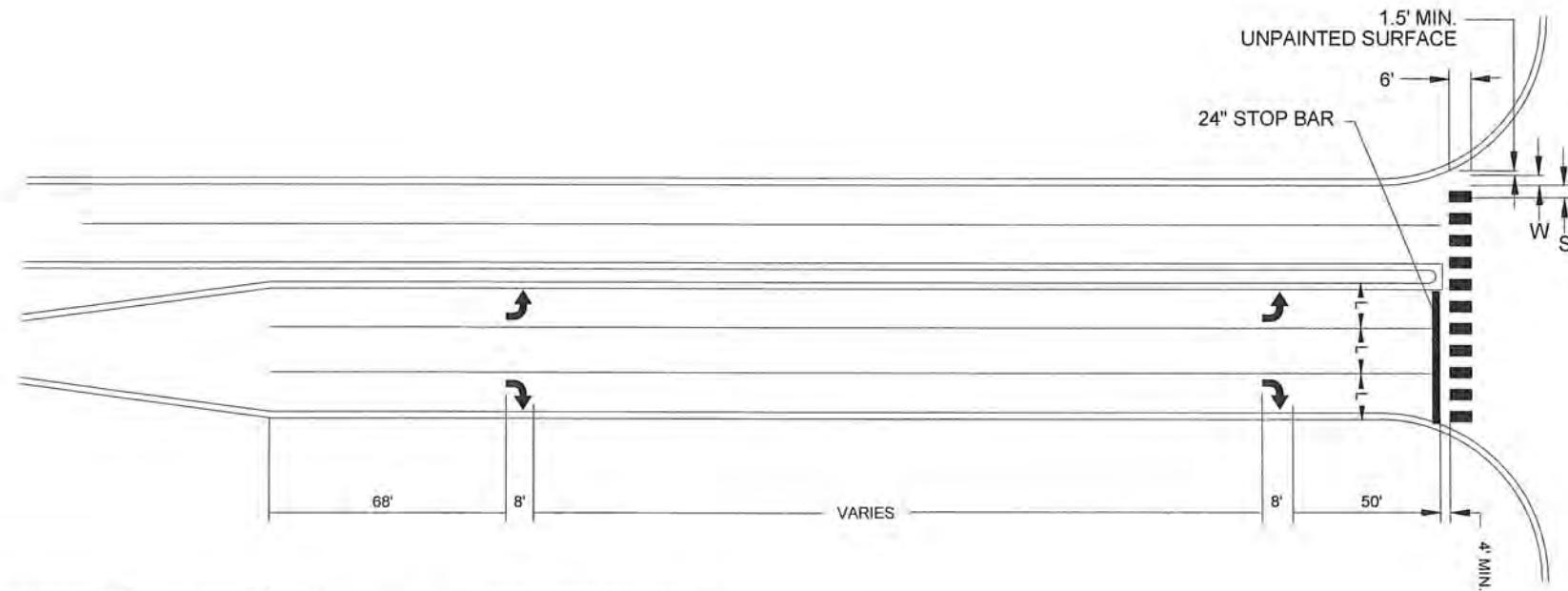


**ANOKA COUNTY
HIGHWAY DEPT.**

STATE AID PROJECT 002-624-029

SIGNING & STRIPING
DETAILS
Sheet 29 of 34 Sheets

MARKINGS FOR PEDESTRIAN CROSSWALKS



(L)	(W)	(S)
WIDTH OF INSIDE LANE	WIDTH OF PAINTED AREAS	WIDTH OF SPACE
9'	2.0'	2.5'
10'	2.5'	2.5'
11'	2.5'	3.0'
12'	3.0'	3.0'
13'	3.0'	3.5'

NOTES: CROSSWALKS:

- 1.) PAINTED AREAS ARE TO BE CENTERED ON CENTER AND LANE LINES, EVEN IF INTERSECTION IS NOT ALIGNED.
- 2.) LOCATION OF ZEBRA CROSSWALKS AND STOP BARS, SIGNAL LOOPS AND PED RAMP ARE APPROXIMATE. FINAL LOCATIONS ARE TO BE DETERMINED AND FIELD VERIFIED DURING CONSTRUCTION BY THE FIELD ENGR.
- 3.) ZEBRA CROSSWALKS ARE TO BE PARALLEL TO THE DRIVING LANE OR LANES. EVEN IF THE STREET IS ON AN ANGLE TO THE INTERSECTION.
- 4.) A MIN. OF 1.5' (450mm) CLEAR DISTANCE MUST BE LEFT ADJACENT TO THE CURB. IF LAST PAINTED AREA FALLS INTO THIS AREA, IT MUST BE OMITTED.
- 5.) ON TWO LANE STREETS, USE SPACING SHOWN FOR AN 11' (3.3mm) INSIDE LANE.

NO	DATE	BY	CKD	APPR	REVISION

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PRINT NAME: JOSEPH J. MACPHERSON, P.E.
 SIGNATURE: *[Signature]*
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DRAWN BY: TMV DATE: 11/25/20
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**ANOKA COUNTY
HIGHWAY DEPT.**

STATE AID PROJECT 002-624-029

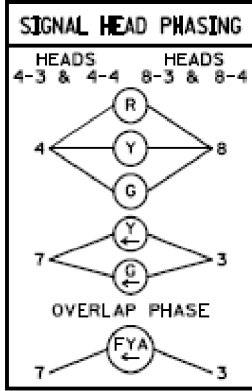
SIGNING & STRIPING
DETAILS

Sheet 30 of 34 Sheets

PLOTTED/REVISED: 5/20/2015

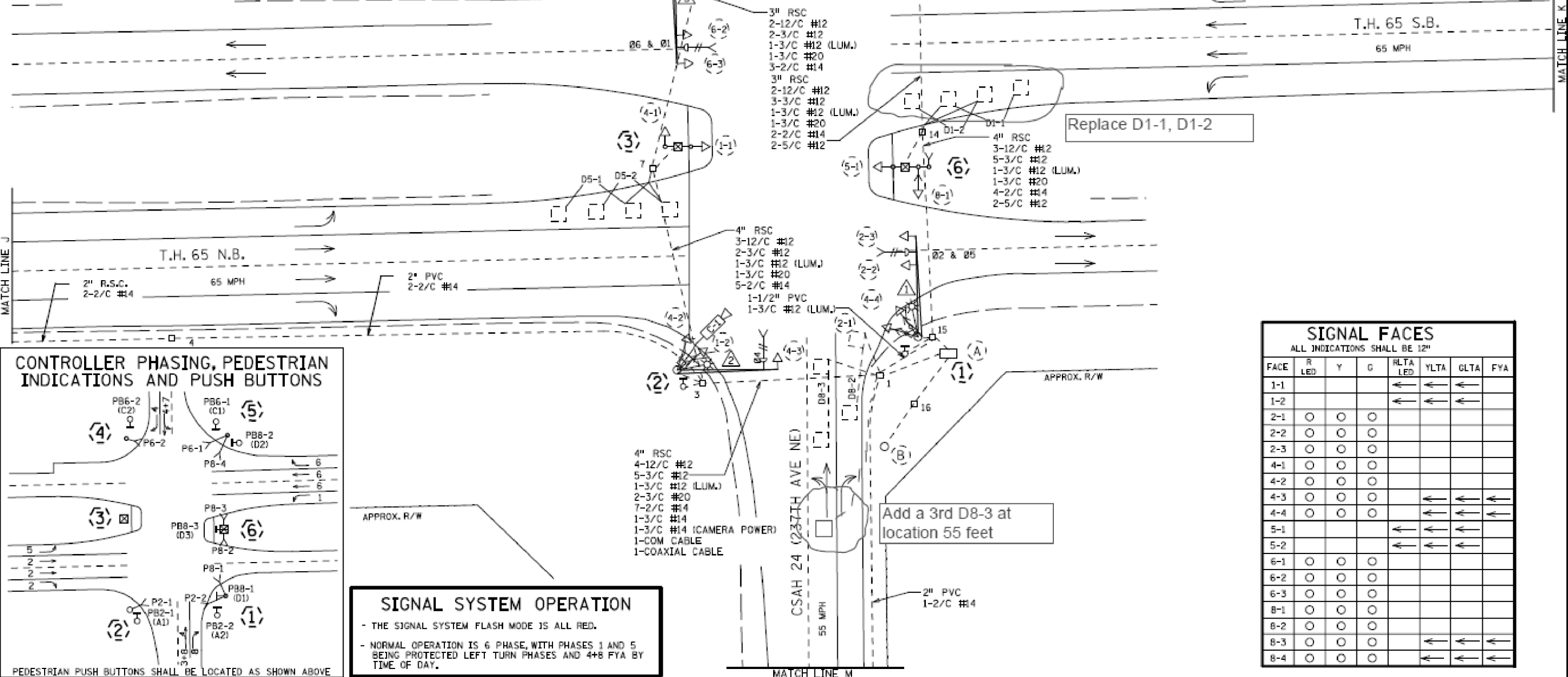
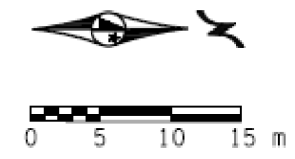
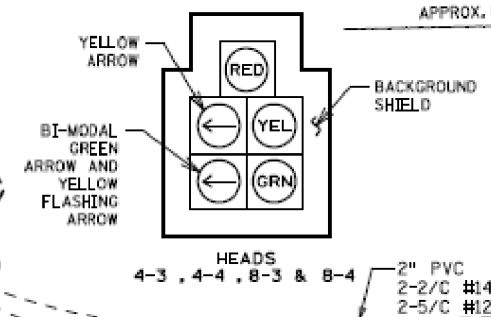
DISTRICT #: METRO
PLOT NAME: LAYOUT
PATH & FILENAME: IP_PWP\0781339\T22207_sgl.dgn

PVC LOOP DETECTORS		
NUMBER	SIZE (FEET)	LOCATION
D1-1	2-6 x 6	20 & 50
D1-2	2-6 x 6	5 & 35
D2-1	6 x 6	625
D2-2	6 x 6	625
D4-1	6 x 6	250
D4-2	2-6 x 6	-5 & 30
D4-3	2-6 x 6	10 & 40
D5-1	6 x 6	20 & 50
D5-2	6 x 6	5 & 35
D6-1	6 x 6	625
D6-2	6 x 6	625
D8-1	6 x 6	250
D8-2	2-6 x 6	-5 & 30
D8-3	2-6 x 6	10 & 40

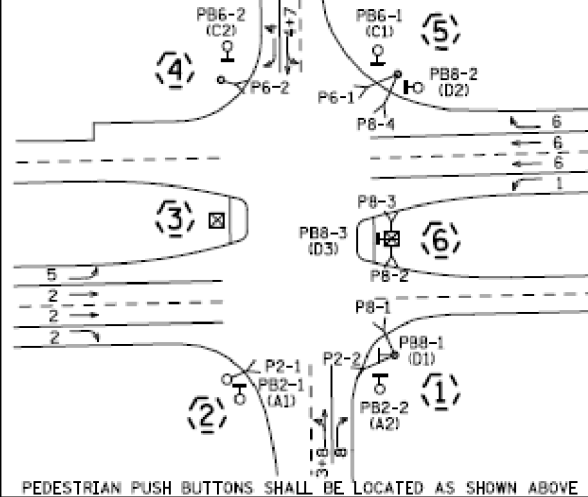


1) LOCATION - DISTANCE FROM STOP LINE OR CROSSWALK TO DETECTOR IN FEET

5 SECTION FYA CLUSTER HEAD DETAIL



CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS



SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 6 PHASE, WITH PHASES 1 AND 5 BEING PROTECTED LEFT TURN PHASES AND 4+8 FYA BY TIME OF DAY.

SIGNAL FACES							
ALL INDICATIONS SHALL BE 12"							
FACE	R LED	Y	G	RLTA LED	YLTA	GLTA	FYA
1-1				←	←	←	
1-2				←	←	←	
2-1	○	○	○				
2-2	○	○	○				
2-3	○	○	○				
4-1	○	○	○				
4-2	○	○	○				
4-3	○	○	○		←	←	←
4-4	○	○	○		←	←	←
5-1				←	←	←	
5-2				←	←	←	
6-1	○	○	○				
6-2	○	○	○				
6-3	○	○	○				
8-1	○	○	○				
8-2	○	○	○				
8-3	○	○	○		←	←	←
8-4	○	○	○		←	←	←

BY: EJA	DATE: 05-08-13	REVISIONS: AS-BUILT OF SP 0208-146	SYSTEM ID: 22207 ID 1736135 T.E. 5579	S.A.P. NO.	DRAWN BY: BAM	CKD BY: CDB	DATE: 02-23-12
			METER ADDRESS:	CERTIFIED BY:	LIC. NO. 19863 DATE: 02-23-12		
			MASTER ID: T.E.	STATE PROJ. NO. (T.H. 65) SHEET NO. 1 OF 4 SHEETS			

NO	DATE	BY	CKD	APPR	REVISION	02/26/2021	9:13:44 AM
NAME: P:\21-01-00\CSAH_24_(TH65-NCL)\Base\Proposed\CSAH24_SIGNAL.dgn							

DRAWN BY: DLD	DATE: 12-11-20
DESIGN BY: SPH	DATE: 12-11-20
CHECKED BY: CO	DATE: 02-04-21

ANOKA COUNTY HIGHWAY DEPT.

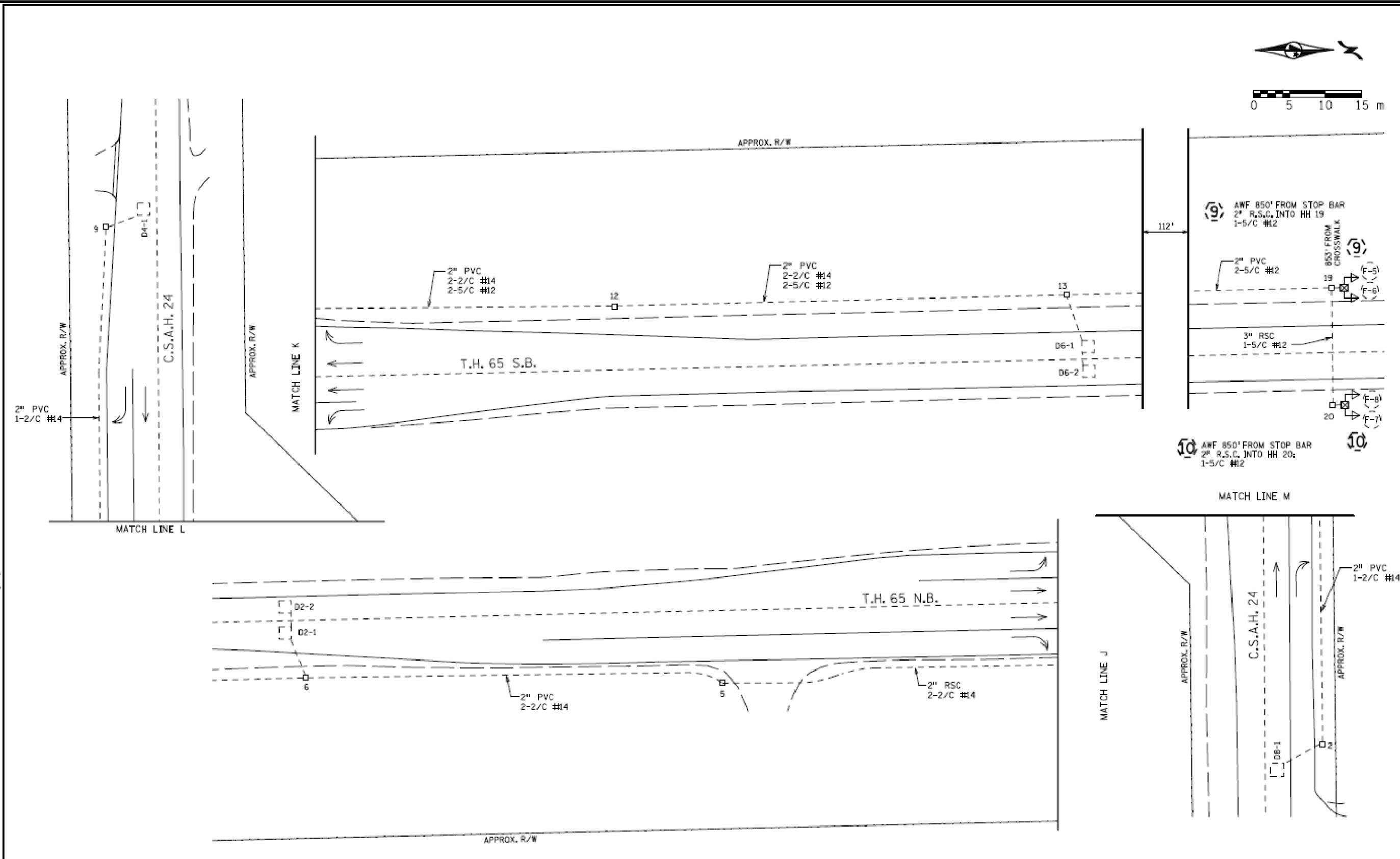
STATE-AID PROJECT 002-624-029

EXISTING SIGNAL PLANS
Sheet 31 of 34 Sheets

FOR REFERENCE PURPOSES ONLY

PLOTTED/REVISED: 5/20/2015

DISTRICT #: METRO
 IPLOT NAME: MATCHLINE
 PATH & FILENAME: IP_PWP-d0781339T22207_sgl.dgn



FOR REFERENCE PURPOSES ONLY

BY	DATE	REVISIONS	SYSTEM ID: 22207 ID 1736135 T.E. 5579	S.A.P. NO.	DRAWN BY: BAM	CKD BY: CDB	DATE: 02-23-12
EJA	05-08-13	AS-BUILT OF SP 0208-146	METER ADDRESS:	CERTIFIED BY		LIC. NO. 19863	DATE: 02-23-12
			MASTER ID: T.E.	LICENSED PROFESSIONAL ENGINEER			
MATCH LINES				TH 65 AT CSAH 24 (237TH AVE NE)			
EAST BETHEL, ANOKA COUNTY				STATE PROJ. NO. 0208-146 (T.H.65) SHEET NO. 2 OF 4 SHEETS			

NO	DATE	BY	CKD	APPR	REVISION	TIME
	02/26/2012					9:13:52 AM

NAME: P:\21-01-00\CSAH_24_(TH65-NCL)\Base\Proposed\CSAH24_SIGNAL.dgn

DRAWN BY: DLD	DATE: 12-11-20
DESIGN BY: SPH	DATE: 12-11-20
CHECKED BY: CO	DATE: 02-04-21

ANOKA COUNTY
 HIGHWAY DEPT.

STATE-AID PROJECT 002-624-029

EXISTING SIGNAL PLANS

Sheet 32 of 34 Sheets

① PA100 POLE FOUNDATION
 TYPE PA100-A-40-D40-9 (DAVIT AT 350 DEG)
 2-SWING AWAY HINGES
 2-ONE WAY SIGNALS OVERHEAD AT 0'
 AND 11'
 2-TYPE 10B POLE MOUNTED AT 0 DEG AND 270 DEG
 2-C.D. PED IND
 ONE WAY EVP DETECTOR AND CONFIRMATORY
 LIGHT PHASES 2&5
 LUMINAIRE-200 W HPS
 RADIO INTERCONNECT ANTENNA (ETHERNET)
 1-APS PB AND SIGN (LT ARROW) (PB6-1)
 EXTEND INTO HH 15
 3" RSC
 2-12/C #12
 3-3/C #12
 2-3/C #12 (LUM.)
 1-3/C #20
 1-3/C #14
 1-2/C #14
 1-COM CABLE (ANTENNA)

APS PED PB STA (PB2-2)
 1-APS PB AND SIGN (RT ARROW)
 EXTEND INTO HH 15
 1-1/4" PVC
 1-2/C #14

② PA100 POLE FOUNDATION
 TYPE PA100-A-40-D40-9 (DAVIT AT 350 DEG)
 1-X6-350/CAM 400 EXTENSION (MOUNTED AT 350 DEG)
 (INCLUDES LIGHTNING ROD, 7/16" GROUND BRAID AND GROUND ROD)
 1-VIDEO CAMERA WITH MOUNT
 2-SWING AWAY HINGES
 ONE WAY SIGNAL OVERHEAD AT 0'
 TYPE 10A POLE MOUNTED AT 270 DEG
 TYPE 10B POLE MOUNTED AT 0 DEG
 1-C.D. PED IND
 ONE WAY EVP DETECTOR AND CONFIRMATORY
 LIGHT PHASE 4
 LUMINAIRE-200 W HPS
 1-R10-X12 SIGN ADJACENT TO HEAD (4-3)
 EXTEND INTO HH 3
 3" RSC
 1-12/C #12
 3-3/C #12
 2-3/C #12 (LUM.)
 1-3/C #20
 1-3/C #14
 1-2/C #14
 1-7/16" GROUNDING BRAID TO GROUND ROD IN HH 3
 1-3/C #14 (CAMERA POWER)
 1-COM CABLE
 1-COAXIAL CABLE

APS PED PB STA (PB2-1)
 1-APS PB AND SIGN (LT ARROW)
 EXTEND INTO HH 3
 1-1/4" PVC
 1-2/C #14

③ PEDESTAL FOUNDATION
 10' PEDESTAL POLE PLUS BASE
 2-STRAIGHT MOUNT SIGNALS AT 0 AND 180 DEG
 3" PVC TO HH 7
 1-12/C #12

④ PA100 POLE FOUNDATION
 TYPE PA100-A-45-D40-9 (DAVIT AT 350 DEG)
 2-SWING AWAY HINGES
 2-ONE WAY SIGNALS OVERHEAD AT 0
 AND 11'
 TYPE 10A POLE MOUNTED AT 0 DEG
 TYPE 10B POLE MOUNTED AT 270 DEG
 1-C.D. PED IND
 ONE WAY EVP DETECTOR AND CONFIRMATORY
 LIGHT PHASES 6&1
 LUMINAIRE-200 W HPS
 EXTEND INTO HH 8
 3" RSC
 2-12/C #12
 2-3/C #12
 1-3/C #12 (LUM.)
 1-2/C #14
 1-3/C #20

APS PED PB STA (PB6-2)
 1-APS PB AND SIGN (RT ARROW)
 EXTEND INTO HH 8
 1-1/4" PVC
 1-2/C #14

④ PEDESTAL FOUNDATION
 10' PEDESTAL POLE PLUS BASE
 2-STRAIGHT MOUNT SIGNALS AT 0 AND 180 DEG
 2-STRAIGHT MOUNT C.D. PED IND AT 90 AND 270 DEG
 1-APS PB AND SIGN (DLB ARROW) (PB6-3)
 3" CONDUIT TO HH 14
 1-12/C #12
 2-3/C #12

⑤ PA90 POLE FOUNDATION
 TYPE PA90-A-35-D40-9 (DAVIT AT 350 DEG)
 2-SWING AWAY HINGES
 ONE WAY SIGNAL OVERHEAD AT 0'
 2-TYPE 10B POLE MOUNTED AT 0 DEG AND 270 DEG
 2-C.D. PED IND
 ONE WAY EVP DETECTOR AND CONFIRMATORY
 LIGHT PHASE 8
 LUMINAIRE-200 W HPS
 1-R10-X12 SIGN ADJACENT TO HEAD (8-3)
 EXTEND INTO HH 10
 3" RSC
 2-12/C #12
 3-3/C #12
 1-3/C #12 (LUM.)
 2-2/C #14
 1-3/C #20

APS PED PB STA (PB6-1)
 1-APS PB AND SIGN (LT ARROW)
 EXTEND INTO HH 10
 1-1/4" PVC
 1-2/C #14

APS PED PB STA (PB8-2)
 1-APS PB AND SIGN (LT ARROW)
 EXTEND INTO HH 10
 1-1/4" PVC
 1-2/C #14

⑥ SOP - INPLACE WOOD POLE
 2" RSC RISER WITH
 WEATHERHEAD
 2" RSC TO HH 16
 WITH 3-1/C #2

⑦ EQUIPMENT PAD
 CONTROLLER AND CABINET
 SERVICE EQUIPMENT (PAD MOUNTED)

LOAD CENTER TO CABINET
 1" RSC
 2-1/C #6
 1-1/C #6 INS. GR.

LOAD CENTER TO HH 15
 2" RSC
 2-3/C #12 (LUM.)

METER TO HH 16
 2" RSC
 3-1/C #2

CONTROLLER CABINET TO HH 15
 4" RSC
 5-12/C #12
 8-3/C #12
 2-3/C #20
 4-2/C #14
 1-3/C #14
 2-5/C #12
 1-COM CABLE (ANTENNA)

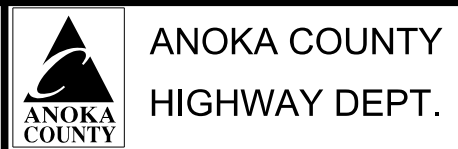
CONTROLLER CABINET TO HH 1
 4" RSC
 4-12/C #12
 5-3/C #12
 2-3/C #20
 10-2/C #14
 1-3/C #14
 1-3/C #14 (CAMERA POWER)
 1-COM CABLE (CAMERA)
 1-COAXIAL CABLE

STUB OUT THREAD AND CAP
 3" RSC

FOR REFERENCE PURPOSES ONLY

BY	DATE	REVISIONS	SYSTEM ID: 22207 ID 1736135 T.E. 5579	S.A.P. NO.	DRAWN BY: BAM	CKD BY: CDB	DATE: 02-23-12
EJA	05-08-13	AS-BUILT OF SP 0208-146	METER ADDRESS:	CERTIFIED BY	LIC. NO. 19863		DATE: 02-23-12
			MASTER ID: T.E.	STATE PROJ. NO. (T.H.65)		SHEET NO. 3 OF 4 SHEETS	

DRAWN BY: DLD DATE: 12-11-20
 DESIGN BY: SPH DATE: 12-11-20
 CHECKED BY: CO DATE: 02-04-21



STATE-AID PROJECT 002-624-029

EXISTING SIGNAL PLANS
 Sheet 33 of 34 Sheets

