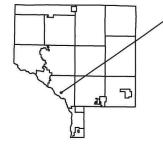
MINNESOTA DEPARTMENT OF TRANSPORTATION **ANOKA COUNTY**

MILL BITUMINOUS, BITUMINOUS SURFACING, CURB & GUTTER, REMOVE CONCRETE PAVMENT, AND SEWER REPAIRS CONSTRUCTION PLAN FOR CSAH 01 BETWEEN 400' EAST OF HANSON BLVD NW AND EGRET BLVD LOCATED ON_ CSAH 01 GROSS LENGTH EXCEPTIONS-LENGTH 3289.49 FEET 0.00 FEET 3289.49 FEET **NET LENGTH** AVE BEGIN SAP 002-601-065 CSAH 1, STA: 11+32.44 8 TOK SY _1047H AVE ≦C 5 103RD LN CNT 102ND 102ND. -102ND AVE 25 CIR AVE 'D ROUS ROUS END SAP 002-601-065 CSAH 1, STA: 44+21.93

PROJECT LOCATION

DESIGN DESIGNATION (CSAH 1)						
ESAL ₂₀ 3,337,370 R VALUE 75	FUNCTIONAL CLASSIFICATION A-MINOR EXPANDER NO. OF TRAFFIC LANES NO. OF PARKING LANES					
ADT (2024) 28250 PROJ. ADT (2044) 28250	DESIGN SPEED 45 MPH STOPPING SIGHT DISTANCE BASED ON:					
PROJ. HCADT (2044)	HEIGHT OF EYE 3.5' HEIGHT OF OBJECT 2.0' DESIGN SPEED NOT ACHIEVED AT :					
10 TON DESIGN	STA TO STA MPH					



CITY OF COON RAPIDS ANOKA COUNTY

MN/DOT TRANSPORTATION DISTRICT - METRO

TOWNSHIP 31 NORTH

RANGE 24 WEST

GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING

THIS PLAN CONTAINS 35 SHEETS

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2 - 3	STATEMENT OF ESTIMATED QUANTITIES
4	STORM SEWER TABULATIONS
5 - 8	TYPICAL SECTIONS
9 - 12	DETAILS
13 - 14	CONSTRUCTION PLAN
15	PERMANENT PAVEMENT MARKING NOTES AND TABULATIONS
16 - 17	TEMPORARY SIGNING AND PERMANENT STRIPING
18	TEMPORARY SIGNING NOTES AND TABULATIONS
19	PERMANENT SIGNING TYPICAL AND TABULATIONS
20	PERMANENT PAVEMENT MARKING TYPICAL
21	MERGE TYPICAL
22 - 35	EXISTING SIGNAL PLANS

ANOKA COUNTY ENGINEER

Digitally signed by Mark

Mark Hansen Date: 2024.01.23 10:13:04

CITY OF COON RAPIDS ENGINEER Digitally signed by Lucas

Lucas Lortie Lortie Date: 2024.01.24 09:09:07

-06'00'

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

Lucas Lortie Digitally signed by Lucas Lortie Date: 2024.01.24 09:09:23 -06'00'

STATE AID ENGINEER: APPROVED FOR STATE AID FUNDING FOR

SIGNATURE: DATE BY CKD APPR REVISION 8:35:17 AM 12/12/2023

NAME: P:\24-01-00\CSAH_01_(550 E HANSON-EGRET)\Base\Proposed\CSAH_01_TITLE.dgn

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY ICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF

DATE: 12-08-2023

LICENSE NO. 26511 HECKED BY ____CO___DATE_12/12/202



ANOKA COUNTY HIGHWAY DEPT.

TITLE SHEET

STATE AID PROJECT 002-601-065

Sheet __1_ of __35_ Sheets

		STATEMENT OF ESTIMATED QUANTITIES		SAP: 002-601-065	
Notes	Item Number	ITEM DESCRIPTION	Unit	TOTAL PROJECT QUANTITIES ESTIMATED	
	2021.501	MOBILIZATION	LUMP SUM	1	
	2104.502	REMOVE DRAINAGE STRUCTURE	EACH	8	
2	2104.502	SALVAGE SIGN TYPE C	EACH	23	
1	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	647	
1	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	820	
1	2104.503	REMOVE CURB AND GUTTER	LIN FT	5774	
1,3	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	9499	
1	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	28665	
1	2104.518	REMOVE CONCRETE MEDIAN	SQ FT	7887	
	2105.607	COMMON EXCAVATION	CU YD	175	
	2105.607	GRANULAR BORROW (LV)	CU YD	782	
4	2123.510	MOTOR GRADER	HOUR	8	
5	2130.523	WATER	M GALLON	20	
6	2211.509	AGGREGATE BASE CLASS 5	TON	2389	
7	2232.604	MILL BITUMINOUS PAVEMENT (SPECIAL)	SQ YD	257	
	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	4305	
8	2360.509	TYPE SP 12.5 BITUMINOUS MIXTURE FOR PATCHING	TON	161	
9	2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (4:C)	TON	29	
	2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (4;C)	TON	6689	
	2360.509	TYPE SP 12.5 NON WEARING COURSE MIXTURE (4;C)	TON	3290	
10	2504.602	ADJUST GATE VALVE	EACH	8	
12	2506.502	CASTING ASSEMBLY	EACH	31	
11	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LIN FT	24.2	
11	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	LIN FT	19.4	
14	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	19.4	
13	2506.602	GROUT CATCH BASIN OR MANHOLE	EACH	18	
13	2506.602	REPAIR CATCH BASINS	EACH	5	
16	2521.518	4" CONCRETE WALK	SQ FT	22188	
10	2531.503	CONCRETE CURB AND GUTTER DESIGN B612	LIN FT	6203	
	2531.503	CONCRETE CURB AND GUTTER DESIGN 8612	LIN FT	200	
	2531.602	CONCRETE MEDIAN NOSE-SPECIAL	EACH	7	
15	2550.602	LOOP DETECTOR DESIGN NMC	EACH	13	
15	2563.601	TRAFFIC CONTROL SUPERVISOR	LUMP SUM	1	
17,18	2563.601	TRAFFIC CONTROL	LUMP SUM	1	
17, 18	2563.601		UNIT DAY	20	
2	2563.613	PORTABLE CHANGEABLE MESSAGE SIGN INSTALL SIGN TYPE C	EACH	23	
	2564.502 2565.602	ADJUST HANDHOLE	EACH	5	
	2505.602	EROSION CONTROL SUPERVISOR	LUMP SUM		
20				1	
20	2573.502 2574.507	STORM DRAIN INLET PROTECTION	EACH	34 93	
	2574.507	COMMON TOPSOIL BORROW	CU YD	167	
24		ROLLED EROSION PREVENTION CATEGORY 15	SQ YD POUND		
21	2575.508	HYDRAULIC REINFORCED FIBER MATRIX		130	
22	2581.503	REMOVABLE PREFORMED PAVEMENT MARKING TAPE	LIN FT	125	
23	2582.503	4" SOLID LINE MULTI-COMPONENT	LIN FT	16633	
23	2582.503	4" BROKEN LINE MULTI-COMPONENT	LIN FT	1481	
24	2582.503	24" SOLID LINE PREFORM THERMO GROUND IN	LIN FT	196	
24	2582.518	PAVEMENT MESSAGE PREFORM THERMOPLASTIC	SQ FT	62	
24	2582.518	CROSSWALK PREFORM THERMOPLASTIC GROUND IN	SQ FT	1152	

	CONSTRUCTION NOTES
1	REFERENCE DETAILS (PAGE 9-10) FOR REMOVAL DETAILS
2	ITEM USED FOR SIGNS IN MEDIAN AREAS.
3	ITEM INCLUDES REMOVAL QUANTITIES FOR BUS PAD REMOVAL.
,	ITEM USED TO MOVE EXCESS RECLAIM MATERIAL AT THE RECLAIM AREA LIMITS TO CREATE A SMOOTH TRANSITION BETWEEN
4	THE PROPOSED AND EXISTING PAVEMENT AND FOR SUPER ELEVATION/GRADE CORRECTION AREAS.
5	WATER TO BE USE FOR DUST CONTROL AS DIRECTED BY THE ENGINEER.
6	ITEM TO BE USED AS BASE FOR NEW CONCRETE WALK AND CURB PATCHES.
7	TO BE USED FOR MILLING STREET APPROACHES AND/OR DETAIL MILLING AREAS AS IDENTIFIED IN THE PLAN.
8	ITEM INCLUDES BITUMINOUS PATCHING AROUND NEW CURB. STORM STRUCTURE REPAIRS, AND ANY POTHOLES.
9	STREET APPROACHES SHALL BE PAVED AFTER MAINLINE. AND BEFORE FINAL STRIPING
10	GATE VALVES TO BE ADJUSTED ONLY AS NECESSARY AS DETERMINED BY THE ENGINEER.
	PAY HEIGHT IS MEASURED FROM INVERT OF OUTLET PIPE TO TOP OF PRECAST CONCRETE STRUCTURE PLUS AN ALLOWANCE
11	OF 0.70 FEET FOR THE DEPTH OF THE CONCRETE BASE, REGARDLESS OF ITS ACTUAL THICKNESS. CONCRETE ADJUSTMENT
	RINGS ARE INCIDENTAL. CONNECTIONS TO EXISTING STORM SEWER ARE INCIDENTAL.
	ITEM INCLUDES FULL REPLACEMENT OF CASTING ADJUSTMENT RINGS. SEE STORM TABULATIONS FOR RING HEIGHTS.
12	CASTINGS IN ROADWAY SHALL BE INSTALLED BETWEEN BASE AND WEAR LIFT PAVING
	ITEM INCLUDES GROUTING OF INVERTS, DOGHOUSES, RINGS, STRUCTURES AND CASTINGS AS DIRECTED BY PLAN AND
13	ENGINEER. SEE DRAINAGE TAB. PAGE 3-4.
14	ITEM USED TO REPLACE PRECAST CONCRETE STRUCTURE HAT.
	FULL LOOP REPLACEMENT REQUIRED. CONTRACTOR SHALL CONTACT ANOKA COUNTY TO DETERMINE PLACEMENT. SIGNAL
15	PLANS ARE INCLUDED AT THE END OF THIS PLAN.
16	ITEM USED FOR CONCRETE MEDIAN.
47	CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN TEMPORARY SIGNAGE WHENEVER EXISTING SIGNAGE IS REMOVED.
17	TEMPORARY SIGNAGE SHALL BE INCIDENTAL TO TRAFFIC CONTROL.
	ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO, AND BE INSTALLED IN ACCORDANCE WITH, THE MOST CURRENT
40	REVISION OF THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". "DO NOT PASS, PASS WITH CARE, NO
18	CENTER STRIPE, AND STOP HERE ON RED SIGNS SHALL BE INPLACE WHENEVER PERMANENT PAVEMENT MARKINGS ARE NOT
	PRESENT.
40	2 MESSAGE BOARDS, ONE ON THE EACH END OF PROJECT, SHALL BE INSTALLED 10 DAYS PRIOR TO ANY CONSTRUCTION;
19	REFERENCE STRIPING PLAN FOR DETAILS.
20	ALL DRAINAGE STRUCTURES AFFECTED BY THIS PROJECT MUST HAVE INLET PROTECTION.
24	TYPE 3 FERTILIZER AND TYPE 25-121 SEED ARE INCIDENTAL TO THIS ITEM. SEE "BASIS OF PLANNED QUANTITIES" FOR
21	APPLICATION RATES.
	CENTERLINE AND LANE DESIGNATION SKIPS TO BE APPLIED AS SOON AS POSSIBLE ON MILLED SURFACE AND EACH NEW LIFT
22	OF PAVEMENT; SKIPS MUST BE IN PLACE BEFORE THE CONTRACTOR LEAVES FOR THE DAY. CONTRACTOR IS TO REMOVE
	PRIOR TO FINAL STRIPING.
00	FINAL STRIPING SHALL BE INSTALLED WITHIN 72 HOURS OF COMPLETION OF MAINLINE WEAR COURSE PAVING. CANNOT BE
23	INSTALLED SOONER THAN 48 HOURS.
0.4	INCLUDES ALL THERMOPLASTIC STOP BARS, GORE AREA HATCHING, CROSSWALKS, LANE DESIGNATION ARROWS, AND
24	PAVEMENT MESSAGES.

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NO	DATE	BY	CKD	APPR	REVISION	01/22/2024	11:04:43 AM	1
NAME: F	P:\24-01-00\CSAI	H_01_(550	E HANSON	I-EGRET)\E	Base\Proposed\CS	SAH_01_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.

THE STATE OF MINNESOTA.

PRINT NAME: GERALD J. AUGE JR.

SIGNATURE:

DATE: 12-12-2023 LICENSE NO. 26511

 DRAWN BY
 SPH
 DATE 12/12/2023

 DESIGN BY
 SPH
 DATE 12/12/2023

 CHECKED BY
 CO
 DATE 12/12/2023



ANOKA COUNTY HIGHWAY DEPT. STATEMENT OF ESTIMATED QUANTITIES

STATE AID PROJECT<u>002-601-065</u>

Sheet 2 of 35 Sheets

BITUMINOUS STREET SUMMARY					
	BITUMINOUS				
LOCATION	2360 TYPE SP 12.5 WEAR (4,C)	NOTES			
		1			
	TON				
JAY ST	TON 10	[1]			
JAY ST IBIS ST		[1] [1]			
	10	. ,			
IBIS ST	10 10	[1]			

BITUMINOUS SUMMARY NOTES:	
[1] QUANTITY ESTIMATED FOR 1 LIFTS	

GATE VALVE TAB					
NUMBER	STATION	OFFSET	ADJUST		
507	133+17	20.5 LT	1		
506	135+07	22.0 LT	1		
505	139+71	22.0 LT	1		
504	143+25	23.0 LT	1		
503	143+29	17.0 LT	1		
502	143+90	27.5 LT	1		
501	143+96	16.5 LT	1		
500	144+22	20.0 LT	1		
		TOTAL	8		

GATE VALVES TO BE ADJUSTED ONLY AS NECESSARY AS DETERMINED BY THE ENGINEER.

A-7D	700-7					QUANTITY
		715		301-CP LID WITH RUBBER GASKET ON BOTTOM	CASTING COVER STAMPED "STORM SEWER" (NEENAH R- 1733 WITH LID 301-CP)	2
A-7D	700-7	715		301-CP LID WITH RUBBER GASKET ON BOTTOM	CASTING COVER STAMPED "SANITARY SEWER" (NEENAH R- 1733 WITH LID 301-CP)	7
Δ Ι	NEENAH 250-DVSP	V	YES	NEENAH R-3250-DVSP		22

ADJUSTING RINGS TO BE INSTALLED AND GLUED DURING THE PAVING OPERATION.

ADJUSTING RINGS TO BE RECESSED 1/4" FROM TOP OF FINISHED MAT

T.IE EQ. Q	ANNO STANDARD DI ATTO ARRESTED DA TIE EFFERAL HIGHWAY ARRIVETRATION SHALL ARRIVE							
THE FOLLOW	THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY							
	ON THIS PROJECT							
	MNDOT STANDARD PLATES							
PLATE NO.	DESCRIPTION							
3000M	REINFORCED CONCRETE PIPE (6 SHEETS)							
3007F	SHEAR REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES							
4011E	PRECAST CONCRETE BASE							
4020J	MANHOLE OR CATCH BASIN (FOR USE WITH OR WITHOUT TRAFFIC LOADS) (2 SHEETS)							
4024A	48" DIA. PRECAST SHALLOW DEPTH CATCH BASIN - DESIGN SD							
4026B	CONCRETE ENCASED CONCRETE ADJUSTING RINGS							
4110F	COVER CASTING FOR MANHOLE (FOR USE IN ALL TRAFFIC AREAS) – CASTING NO. 715 AND 716							
4134A	CURB BOX CASTING FOR CATCH BASIN (FOR DESIGN B CURBS)- CASTING NO. 825							
7100H	CONCRETE CURB AND GUTTER (DESIGN B AND DESIGN V)							
7111J	INSTALLATION OF CATCH BASIN CASTINGS (CONCRETE CURB AND GUTTER)							
7113A	CONCRETE APPROACH NOSE DETAIL							
8000K	TEMPORARY CHANNELIZERS (3 SHEETS)							

	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					

								THEREBY CERTIFY THAT TO
								OR UNDER MY DIRECT SUF
								LICENSED PROFESSIONAL THE STATE OF MINNESOTA
								PRINT NAME:
NO	DATE	BY	CKD	APPR	REVISION	01/22/2024	11:07:31 AM	SIGNATURE:
NAME:	P:\24-01-00\CSAI	H 01 (550	E HANSON	N-EGRET)\I	Base\Proposed\CS/	AH 01 SEQ.dgn		DATE: <u>12-12-2023</u>

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PRINT NAME: GERALD J. AUGE JR.

SIGNATURE:

DATE: 12-12-2023 LICENSE NO. 26511

DRAWN BY SPH DATE 12/12/2023

DESIGN BY SPH DATE 12/12/2023

CHECKED BY CO DATE 12/12/2023



ANOKA COUNTY HIGHWAY DEPT. STATEMENT OF ESTIMATED QUANTITIES

STATE AID PROJECT<u>002-601-065</u>

Sheet 3 of 35 Sheets

						S	TORM DRAI	NAGE TAB				
NUMBER	TYPE	ACTION	NEW CASTING TYPE	FURNISH AND INSTALL CASTING ASSEMBLY	RING HEIGHT (INCIDENTAL)	REMOVE STRUCTURE	GROUT CATCH BASIN OR MANHOLE	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48"	,	REPAIR CATCH BASIN (REBUILD INVERT AND/OR DOGHOUSE)	NOTES
				EACH	LIN FT	EACH	EACH	LIN FT	LIN FT	EACH	EACH	
100	СВ	GROUT					1					CLEAN AND GROUT DOUGHOUSE & W,E INV
101 102	CB CB	GROUT RE-RING	A	1	0.4		1					CEAN & GROUT STRUCTURE
102	CB	RE-RING	A	1	0.4							CLEAN
104	СВ	RE-RING	A	1	0.5						1	CLEAN & NEW INV
105	CB	RE-RING	A	1	0.6						1	CLEAN & NEW INV
106	СВ	GROUT		·			1				1	GROUT STRUCTURE & NEW INV
107	СВ	RECONSTRUCT	А	1	0.4	1			12.2	3		30" W 11.2' INV, 30" E 11.2' INV, 15" NW 6.6' INV, BLOC STRUCUTRE WITH CONE
108	СВ	RE-RING	Α	1	0.8						1	NEW E,W INV
109	СВ	RE-RING	А	1	0.2							
110	СВ	RE-RING	A	1	0.6							
111	СВ	RE-RING	Α	1	0.2							
112	СВ	RE-RING	A	1	0.2		1					GROUT STRUCTURE SEALS, MOISTURE PRESENT
113	CB	RE-RING RE-RING	A	1	0.4						4	NIEW/ IND /
114 115	CB CB	GROUT	A	1	0.8		1				1	NEW INV CLEAN AND GROUT RINGS
116	СВ	RECONSTRUCT	A	1	0.4	1	1		7.2	2		18" W 6.1' INV, 15" E 6.1' INV, BLOCK STRUCTURE
117	CB	RE-RING	A	1	0.4				1.2	2		10 W 0.1 INV, 13 E 0.1 INV, BLOCK 3 INOCTORE
118	CB	RE-RING	A	1	0.4							
119	CB	GROUT		'	0.1		1					CLEAN & GROUT RINGS
120	СВ	GROUT					1					
121	СВ	RECONSTRUCT	A	1	0.4	1		4.55		2		12" PVC NW 3.2' INV, 12" S 3.25' INV
122	СВ	GROUT					1					GROUT RINGS
123	СВ	RE-RING	Α	1	0.2							
124	СВ	RECONSTRUCT	А	1	0.4	1		2.7		1		12" S 2.0' INV
125	СВ	RECONSTRUCT	Α	1	0.2	1		3.5		2		12" NE 2.8' INV, 15" SE 2.8' INV
126	СВ	RECONSTRUCT	Α	1	0.4	1		4.4		2		12" S 3.1' INV, 12" N 3.0' INV
127	СВ	OK										ODOLIT BINGO A BOOLIGIAS
128	СВ	GROUT		4	0.4	4	1	4.0		4		GROUT RINGS & DOGHOUSES
129 130	CB CB	RECONSTRUCT OK	A	1	0.4	1		4.9		1		12" S 3.5' INV
131	CB	RECONSTRUCT	A	1	0.2	1		4.1		2		12" S 3.4' INV, 12" N 3.4' INV
132	CB	OK		'	0.2	'		4.1		2		12 3 3.4 1111/, 12 11 3.4 1111
133	CB	GROUT					1					GROUT ALL
200	MH	RE-RING	A-7D	1	0.7		1					GROUT INVERT
201	MH	RECONSTRUCT	A-7D	1	0.3		1					GROUT STRUCTURE & NEW TOPHAT FOR 48" STRUC
202	МН	GROUT					1					GROUT RINGS
300	МН	OK										
301	МН	OK										WATER MAIN
302	MH	GROUT					1					GROUT RINGS, SANITARY
303	MH	RE-RING	A-7D	1	0.4							SANITARY
304	MH	RE-RING	A-7D	1	1.0							SANITARY
305	MH	GROUT					1					GROUT RINGS, SANITARY
306 307	MH MH	GROUT BE BING	A 7D	1	0.4		1					GROUT RINGS, SANITARY SANITARY
307	MH	RE-RING RE-RING	A-7D A-7D	1	0.4							SANITARY
309	MH	RE-RING	A-7D	1	0.7							SANITARY
310	MH	GROUT		'	0.1		1					GROUT RINGS, SANITARY
311	MH	RE-RING	A-7D	1	0.7							SANITARY
312	MH	RE-RING	A-7D	1	0.4							SANITARY
301A	MH	GROUT					1					GROUT RINGS, WATER MAIN
TOTALS				31	14.7	8	18	24.2	19.4	15	5	

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NO	NO DATE BY CKD APPR REVISION 12/11/2023 1:33:22 PM											
NAME: I	NAME: P:\24-01-00\CSAH_01_(550 E HANSON-EGRET)\Base\Proposed\CSAH_01_SEQ.dgn											

HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERFUISION 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 SPH DATE 12/11/2023

DESIGN BY SPH DATE 12/11/2023

CHECKED BY <u>CO</u> DATE <u>12/11/2023</u>



ANOKA COUNTY HIGHWAY DEPT. STORM SEWER TABULATIONS

STATE AID PROJECT 002-601-065

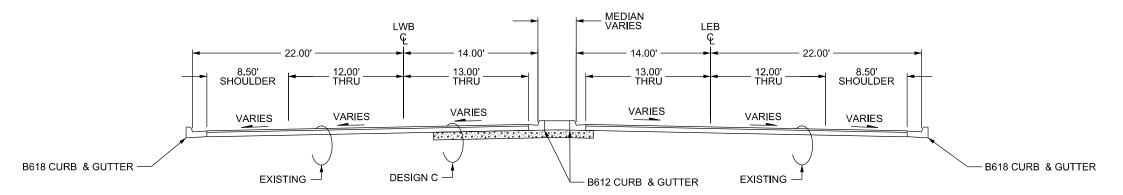
Sheet 4 of 35 Sheets

CSAH 01 - COON RAPIDS BLVD

EXISTING SECTION

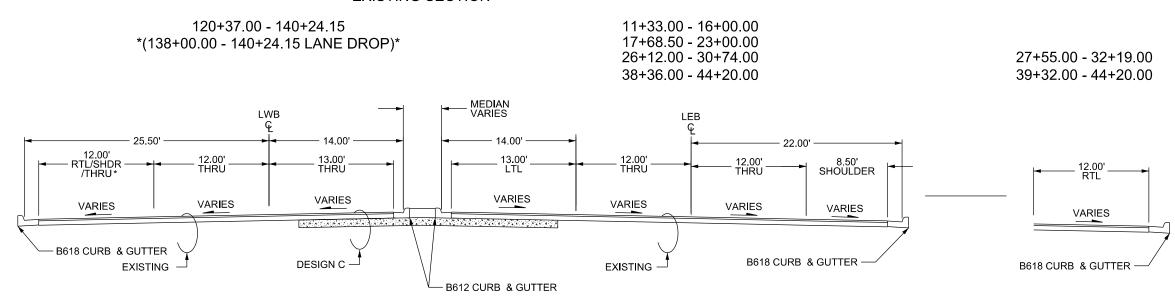
113+12.33 - 120+37.00

16+00.00 - 17+68.50 23+00.00 - 26+12.00 30+74.00 - 38+36.00



CSAH 01 - COON RAPIDS BLVD

EXISTING SECTION



NOTE: CONCRETE SECTION UNDER ROADWAY IS SHOWN IN AN APPROXIMATE LOCATION

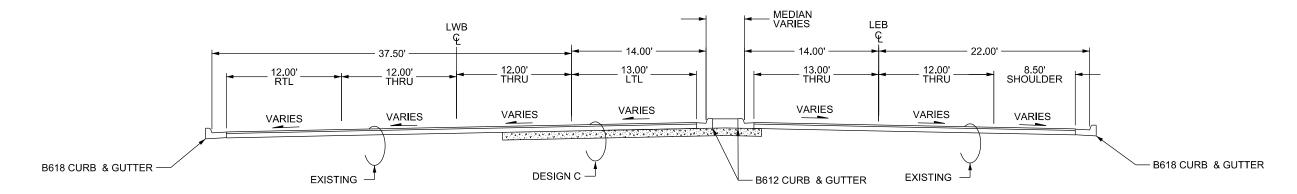
	I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	DRAWN BYSPH DATE 12/12/2023	ANOKA COUNTY		TYPICAL SECTIONS
	PRINT NAME: GERALD J. AUGE JR.	DESIGN BYSPH DATE 12/12/2023			
NO DATE BY CKD APPR REVISION 01/23/2024 9:08:45 AM NAME: P:124-01-00/CSAH_01_(550 E HANSON-EGRET) Base\Proposed\CSAH_01_TYPICALS.dgn	SIGNATURE:	CHECKED BY CO DATE 12/12/2023 ANOI COUN		STATE AID PROJECT <u>002-601-065</u>	Sheet <u>5</u> of <u>35</u> Sheets

CSAH 01 - COON RAPIDS BLVD

EXISTING SECTION

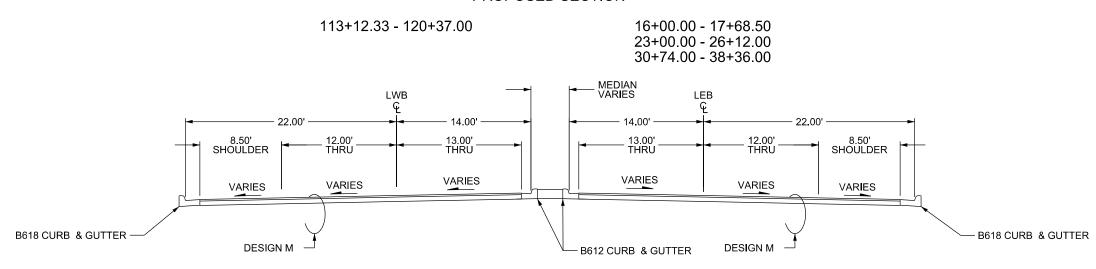
130+00.00 - 134+55.00

16+00.00 - 17+68.50 23+00.00 - 26+12.00



CSAH 01 - COON RAPIDS BLVD

PROPOSED SECTION

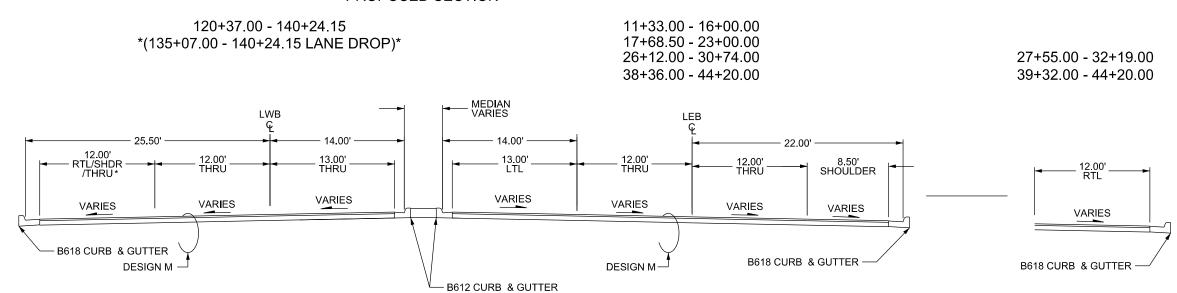


NOTE: CONCRETE SECTION UNDER ROADWAY IS SHOWN IN AN APPROXIMATE LOCATION

							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 BYSPH DATE 12/12/2023		ANOKA COUNTY		TYPICAL SECTIONS
							PRINT NAME: GERALD J. AUGE JR.	DESIGN BYSPH DATE <u>12/12/2023</u>		HIGHWAY DEPT.		
NO NAME:	DATE P:\24-01-00\C	BY SAH_01_(550	CKD E HANSON	APPR REVISION N-EGRET)\Base\Proposed\CSAI	01/23/2024 H_01_TYPICALS.dgn	9:08:46 AM	SIGNATURE:	CHECKED BY CO DATE 12/12/2023	ANOKA COUNTY	HIGHWAY DEPT.	STATE AID PROJECT 002-601-065	Sheet 6 of 35 Sheets

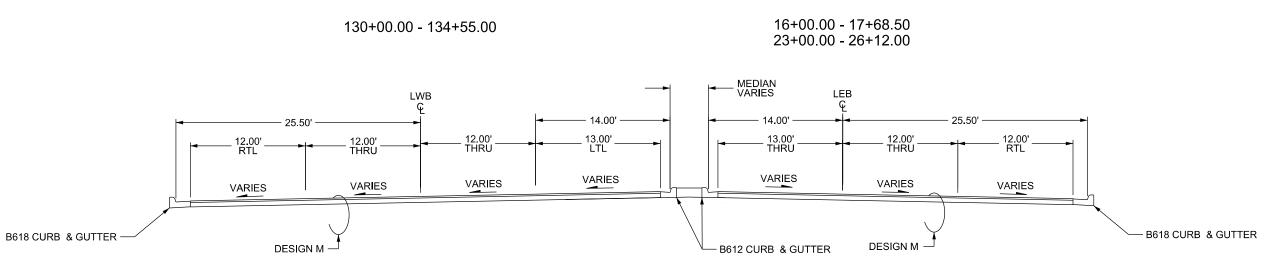
CSAH 01 - COON RAPIDS BLVD

PROPOSED SECTION



CSAH 01 - COON RAPIDS BLVD

PROPOSED SECTION



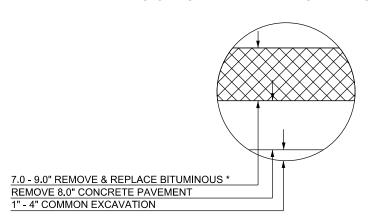
NOTE: CONCRETE SECTION UNDER ROADWAY IS SHOWN IN AN APPROXIMATE LOCATION

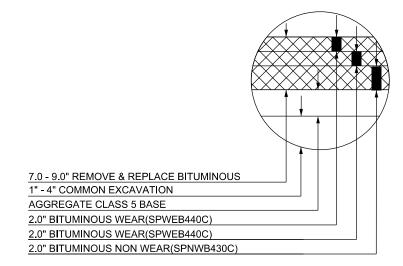
		I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	DRAWN BYSPH DATE 12/12/2023		ANOKA COUNTY		TYPICAL SECTIONS
			DESIGN BY <u>SPH</u> DATE <u>12/12/2023</u>		HIGHWAY DEPT.		
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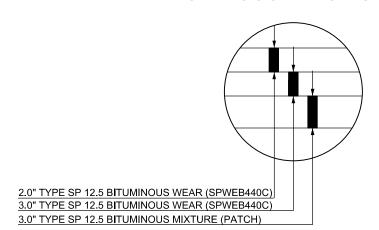
DESIGN C CONCRETE REMOVAL SECTION

DESIGN M MILL / RECLAIM SECTION

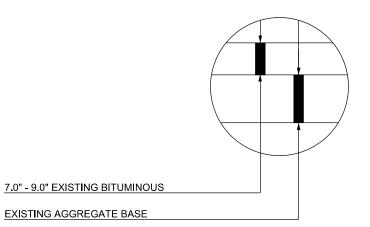
BUS PAD BITUMINOUS PATCH SECTION







EXISTING SECTION



NOTE: CONCRETE SECTION UNDER ROADWAY IS SHOWN IN AN APPROXIMATE LOCATION

								I HEREBY CERTIFY THAT OR UNDER MY DIRECT S LICENSED PROFESSION, THE STATE OF MINNESO						
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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: 12-12-2023 LICENSE NO. 26511

DRAWN BY SPH DATE 12/12/2023

DESIGN BY SPH DATE 12/12/2023

CHECKED BY CO DATE 12/12/2023



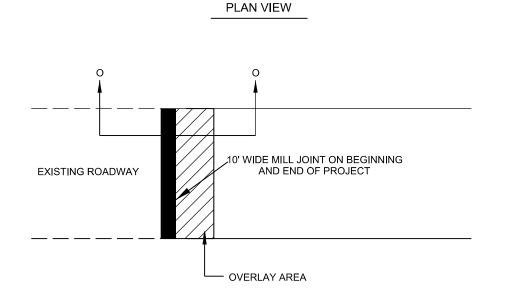
ANOKA COUNTY HIGHWAY DEPT.

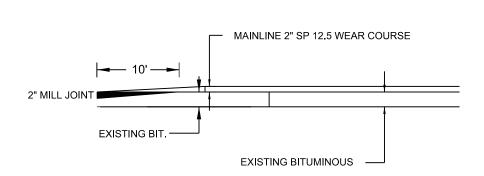
TYPICAL SECTIONS

STATE AID PROJECT 002-601-065

Sheet 8 of 35 Sheets

MAINLINE JOINT DETAIL (OVERLAY)

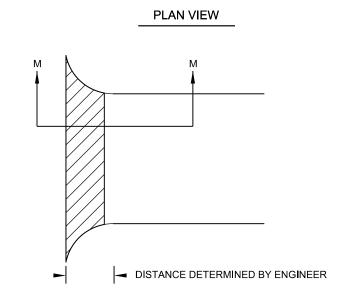


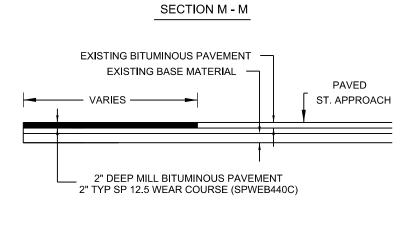


SECTION O - O

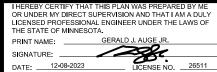
STREET APPROACH DETAIL (MILL & OVERLAY)

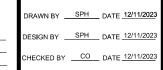
BITUMINOUS STREET





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ANOKA 11 COUNTY

ANOKA COUNTY IIGHWAY DEPT.

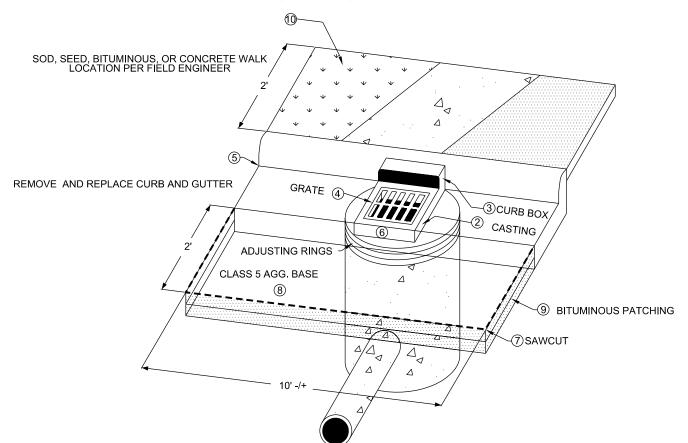
DETAILS

STATE AID PROJECT 002-601-065

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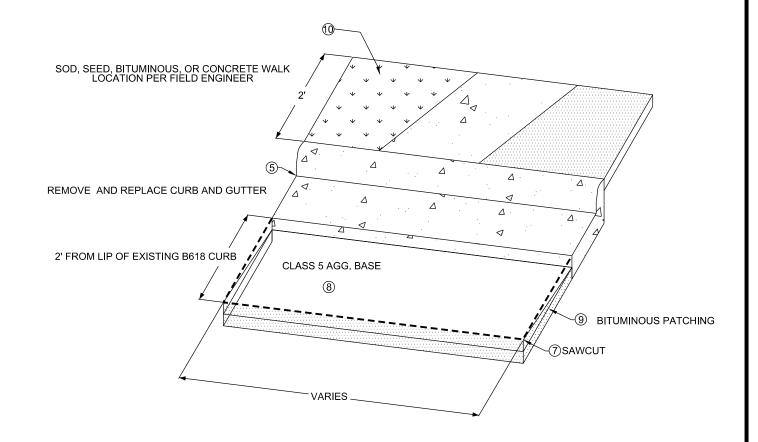
CATCH BASIN DETAIL

SEE STRUCTURE TAB FOR LOCATION (PAGE 3-4)



NEW CURB DETAIL

SEE PLAN FOR LOCATION



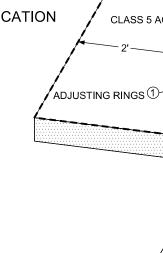
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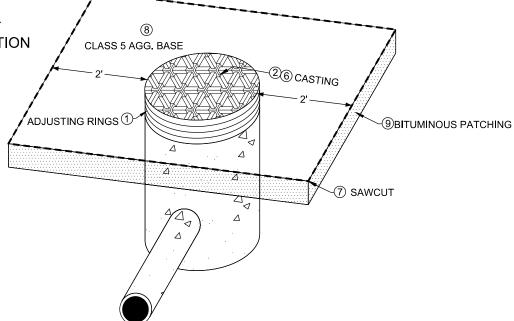
FOR TRAFFIC CONTROL AT CATCH BASIN AND MANHOLE REPAIRS REFER TO THE MINNESOTA MANUAL ON TEMPORARY TRAFFIC CONTROL LAYOUTS FIELD MANUAL.

- (1) CONCRETE ENCASED CONCRETE ADJUSTING RINGS STANDARD PLATE 4026A
- (2) RING AND FRAME CASTING; REFERENCE CASTING ASSEMBLIES SUMMARY CHART FOR CASTING TYPE
- (3) CURB BOX MATCHES CASTING REFERENCE CHART FOR CASTING TYPE
- (4) GRATE CASTING; REFERENCE CASTING ASSEMBLIES SUMMARY CHART FOR CASTING TYPE
- (5) CONCRETE CURB AND GUTTER DESIGN B STANDARD PLATE 7100H, FORM CURB TO FIT CASTING
- (6) INSTALLATION OF CATCH BASIN OR MANHOLE CASTINGS: REFERENCE STANDARD PLATE PER TYPE OF CASTING
- (7) SAWCUT BITUMINOUS PAVEMENT / CONCRETE CURB FULL DEPTH.
- (8) ADD AND COMPACT AGGREGATE BASE CLASS 5 AROUND REPAIRED STRUCTURE. ITEM INCIDENTAL TO ENTIRE STRUCTURE REPAIR
- (9) REMOVE VARIABLE DEPTH BITUMINOUS, PATCH WITH 2, 3" LIFTS OF BITUMINOUS, TOP LIFT SHOULD TAPER TO BOTTOM LIFT AT CURB.
- (1) REPLACE DISTURED AREA BEHIND CATCH BASIN WITH EITHER SOD (RESIDENTAL AREAS), EROSION CONTROL BLANKET, BITUMINOUS, OR CONCRETE

MANHOLE DETAIL

SEE STRUCTURE TAB FOR LOCATION (PAGE 3-4)





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OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF LICENSE NO. __26511 SIGNATURE: DATE: ____12-08-2023

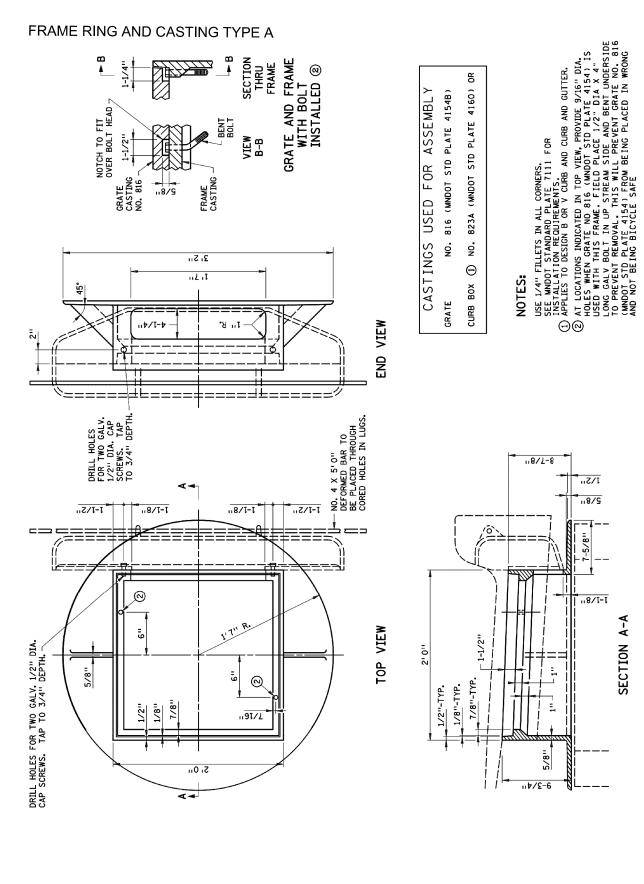
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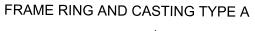
ANOKA COUNTY HIGHWAY DEPT.

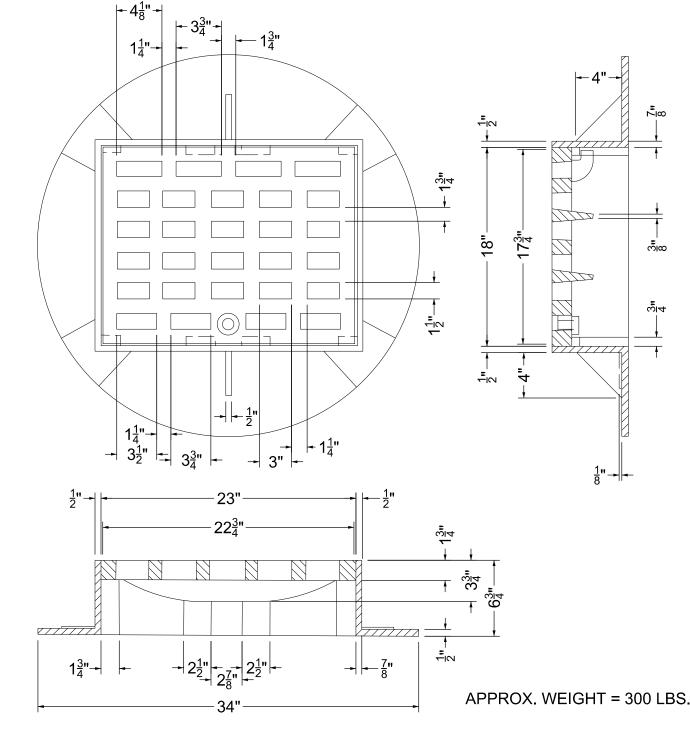
DETAILS

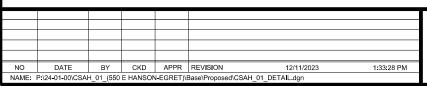
STATE AID PROJECT 002-601-065

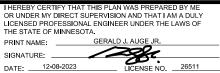
Sheet 10 of 35 Sheets

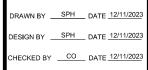














ANOKA COUNTY HIGHWAY DEPT.

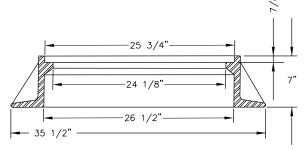
STATE AID PROJECT 002-601-065

DETAILS

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STANDARD MANHOLE CASTING

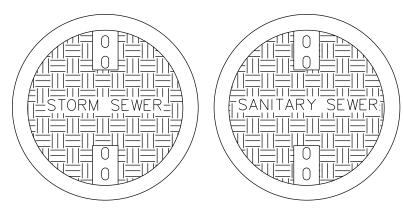
CASTING — NEENAH FOUNDRY NO. R-1733 SERIES MANHOLE FRAME OR APPROVED EQUAL. CASTING & RINGS TO HAVE INFI-SHIELD INSTALLED. $^{\rm t}_{\infty}$



COVER-ESS BROTHER 301-CP LID. OR EQUAL WITH RUBBER GASKET ON THE BOTTOM OF THE LID.

NEENAH R1733-5044

NEENAH R1733-5044



NOTE: ALL LIDS MUST HAVE RUBBER GASKET ON THE BOTTOM OF THE LID.

								I HEREBY CERTIFY THAT OR UNDER MY DIRECT SU
								LICENSED PROFESSIONA THE STATE OF MINNESOT
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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 NAMF: GERALD J. AUGE JR.

GERALD J. AUGE JR.

LICENSE NO. 26511

CHECK

DRAWN BY SPH DATE 12/11/2023

DESIGN BY SPH DATE 12/11/2023

CHECKED BY CO DATE 12/11/2023

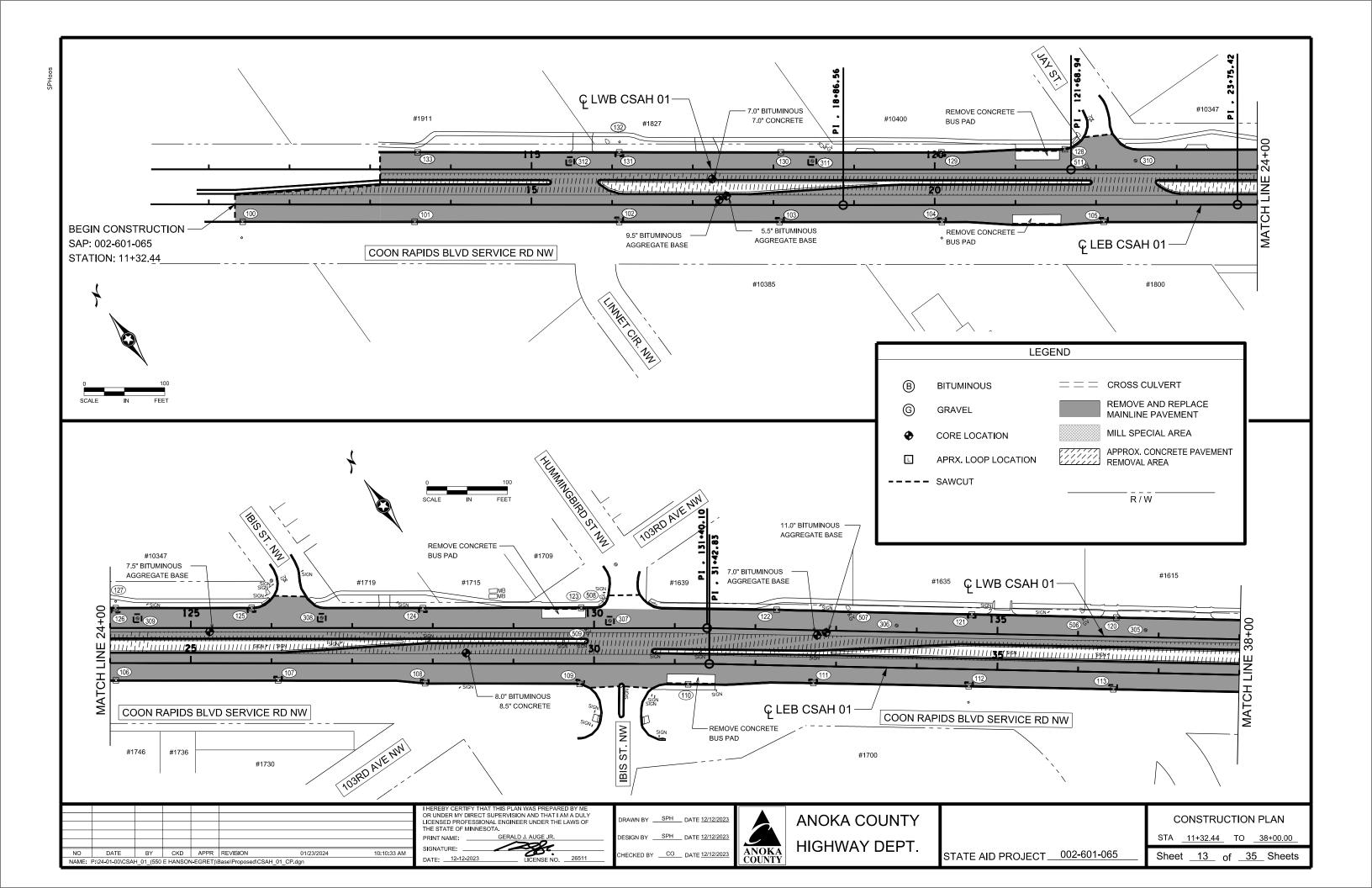
ANOKA COUNTY

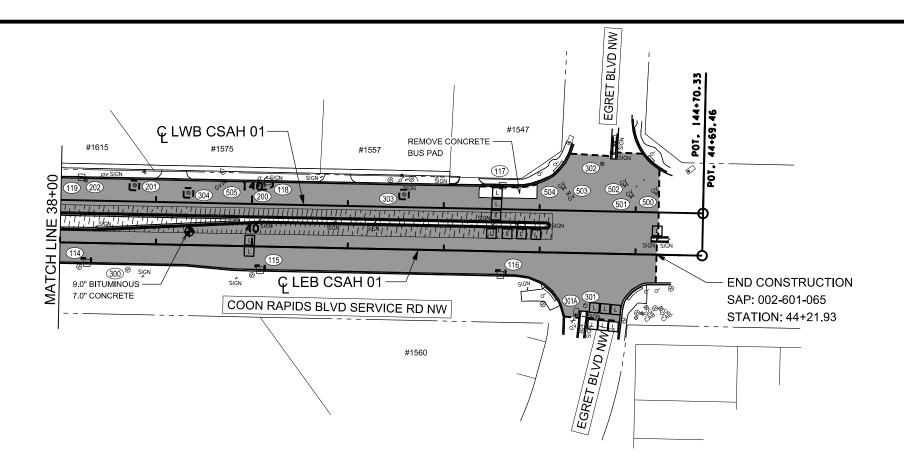
ANOKA COUNTY HIGHWAY DEPT.

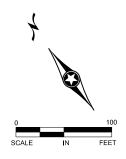
DETAILS

STATE AID PROJECT 002-601-065

Sheet 12 of 35 Sheets







CONSTRUCTION NOTES:

STAGE 3:

STAGE 1: WORK IN THIS STAGE CONSISTS OF CONCRETE CURB AND GUTTER REPAIR, CATCH BASIN REPAIR, PEDESTRIAN RAMP IMPROVEMENTS, LOOP REPLACEMENT, AND SIDE-STREET LOOP REPLACEMENTS ON THE OUTSIDE LANE OF BOTH EASTBOUND AND WESTBOUND. LOOPS TO BE PLACED IN GRAVEL. MILL TAPER ALONG WESTBOUND LANE BETWEEN BEGINNING AND END OF CONCRETE REMOVAL AREA IN COMPLIANCE WITH BOTH MMUTCD AND THE MNDOT TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS FIELD MANUAL. EROSION CONTROL SHALL BE APPLIED BEFORE COMMENCING WITH STAGE 2.

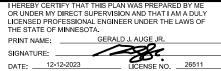
STAGE 2: WORK IN THIS STAGE CONSISTS OF BITUMINOUS REMOVAL, CONCRETE PAVEMENT REMOVAL, COMMON EXCAVATION, GRADING OF GRAVEL BASE, LOOP REPLACEMENT, CONSTRUCT MEDIAN, AND ONE LIFT OF BITUMINOUS BASE AND ONE LIFT OF BITUMINOUS BINDER. LOOPS TO BE PLACED IN GRAVEL. THIS STAGE IS ON THE INSIDE LANES OF EASTBOUND AND WESTBOUND ONLY.

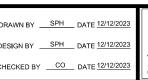
WORK IN THIS STAGE CONSISTS OF BITUMINOUS REMOVAL, COMMON EXCAVATION, GRADING OF GRAVEL BASE, LOOP REPLACEMENT, AND ONE LIFT OF BITUMINOUS BASE AND ONE LIFT OF BITUMINOUS BINDER. LOOPS TO BE PLACED IN GRAVEL. THIS STAGE IS THE OUTSIDE LANES OF EASTBOUND AND WESTBOUND. MILL EGRET BLVD INTERSECTION AND NORTH LEG (CITY PORTION) TO RAILROAD TRACKS.

STAGE 4: WORK IN THIS STAGE CONSISTS OF FINAL PAVING OVER ENTIRE SITE THAT WAS ENCOMPASSED WITH STAGES 1-3. FINAL WEARING COURSE TO BE PAVED UNDER TRAFFIC, IN A MOVING WORKZONE TRAFFIC CONTROL LAYOUT.

	LEGE	END	
B	BITUMINOUS	===	CROSS CULVERT
©	GRAVEL		REMOVE AND REPLACE MAINLINE PAVEMENT
•	CORE LOCATION		MILL SPECIAL AREA
L	APRX, LOOP LOCATION		APPROX. CONCRETE PAVEMENT REMOVAL AREA
	SAWCUT		

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ANOKA COUNTY
HIGHWAY DEPT.

CONSTRUCTION PLAN

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STATE AID PROJECT 002-601-065

Sheet <u>14</u> of <u>35</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	YTITMAUÇ					
TIEM DESCRIPTION	UNIT	WHITE	YELLOW					
4" SOLID LINE MULTI-COMP	LIN FT	9911	6722					
4" BROKEN LINE MULTI-COMP	LIN FT	1481						
3'X6' ZEBRA CROSSWALK PREF THERMOPLASTIC, GROUND IN	SQ FT	1152						
24" SOLID LINE, PREF THERMOPLASTIC, GROUND IN	LIN FT	196						
PAVEMENT MESSAGE, PREF THERMOPLASTIC, RIGHT ARROW	SQ FT	31						
PAVEMENT MESSAGE, PREF THERMOPLASTIC, LEFT ARROW	SQ FT	31						

PAVEMENT MARKING SYMBOLS & MATERIALS LEGEND

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



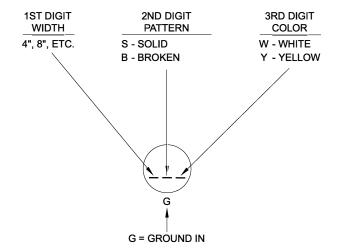
PAVEMENT MESSAGE - LEFT/RIGHT ARROW

CROSSWALK BLOCK

STRIPING KEY

CIRCLE - MULTI-COMP

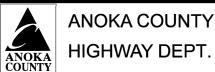
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EXAMPLE: (4SW) = 4" SOLID LINE WHITE MULTI-COMP

						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 DISTRIBUTIONS SEAN R. THIEL DISTRIBUTIONS PRINT MAME: SEAN R. THIEL DISTRIBUTIONS SEAN R. THIEL DISTRIBUTIONS SEAN R. THIEL S
NO NAME:	DATE	BY	CKD	APPR	REVISION	SIGNATURE:
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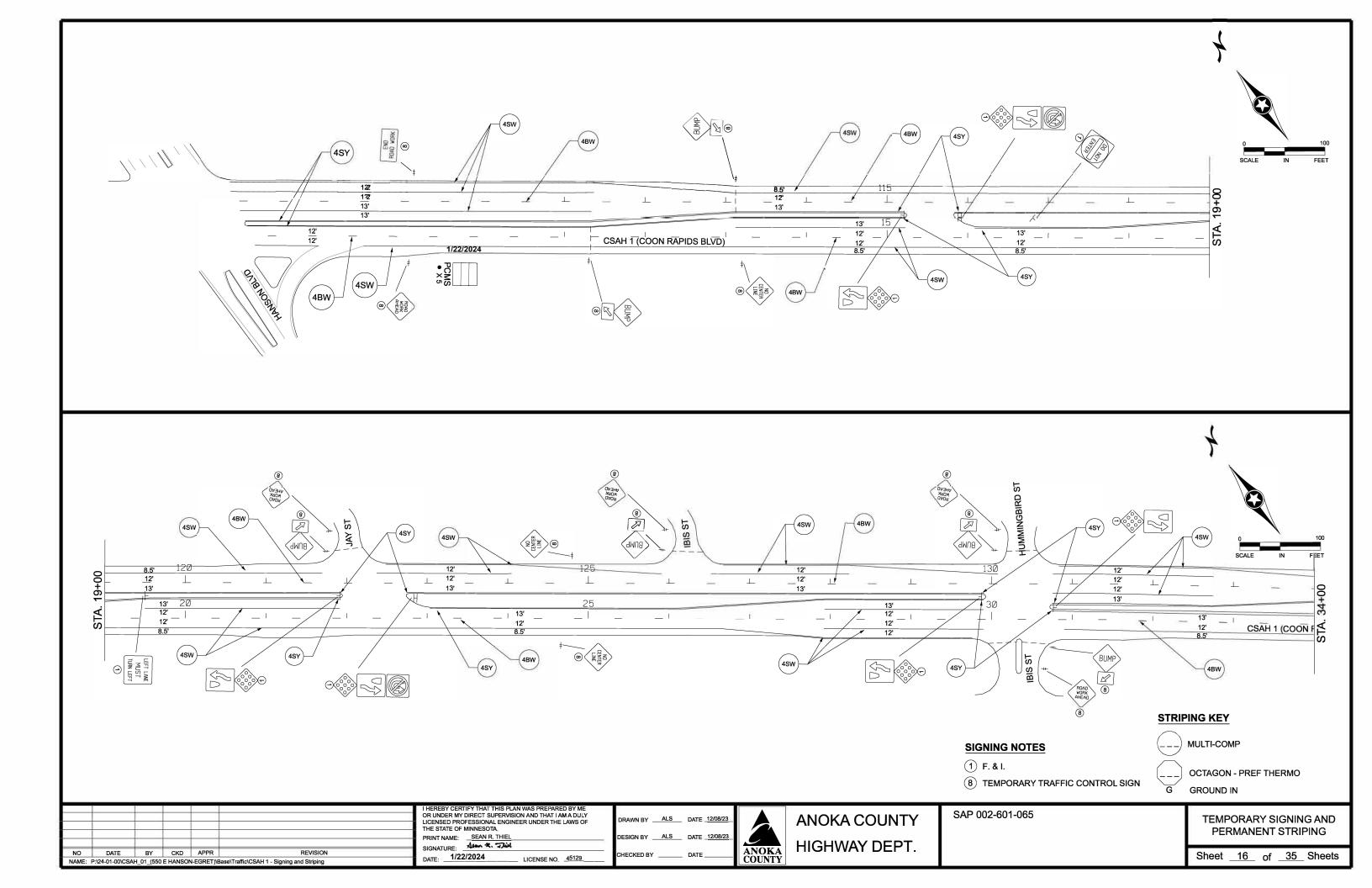


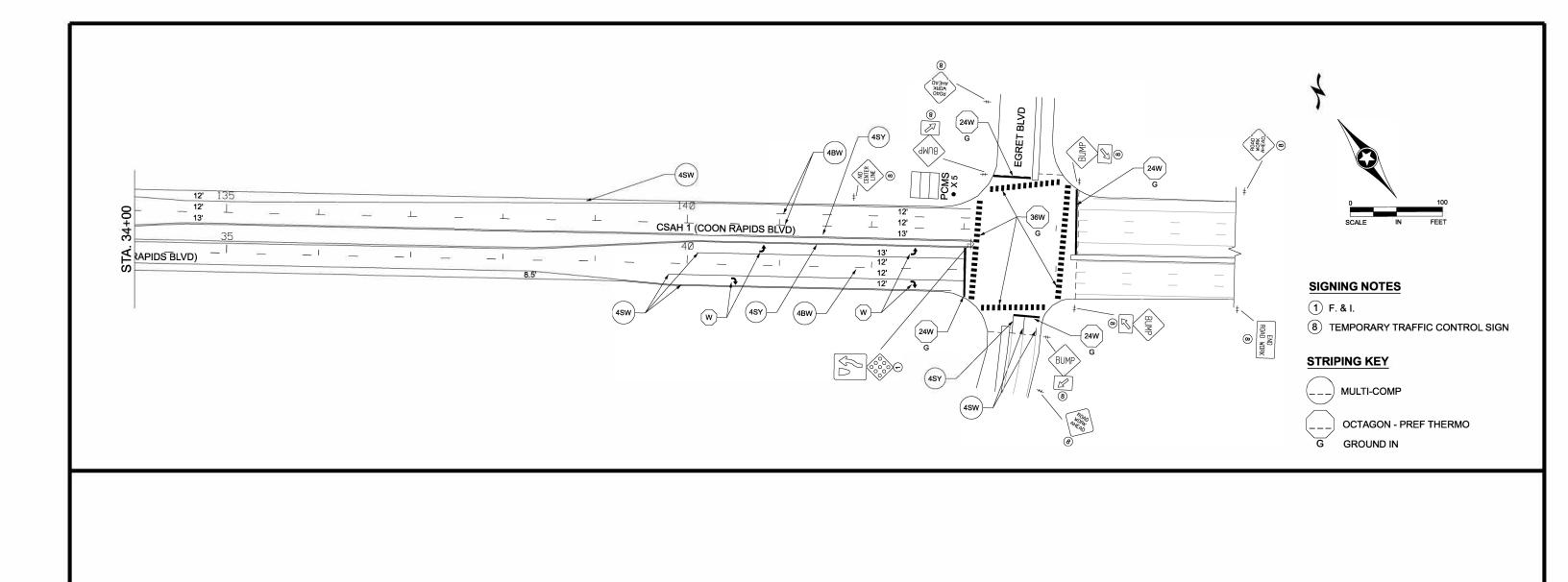


SAP 002-601-065

PERMANENT PAVEMENT MARKING NOTES AND TABULATIONS

Sheet 15 of 35 Sheets





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.

NO DATE BY CKD APPR REVISION

NAME: P:\(\frac{1}{2}\)24-0-00\(\text{CSAH_01_(550 E HANSON-EGRET)\)Base\(\text{Traffic/CSAH_1 - Signing and Striping}\)

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSE NO. HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSE NO. HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSE NO. HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSE NO. HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSE NO. HE STATE OF MINNESOTA.

PRINT NAME: SEAN R. THIEL

SIGNATURE: SIGNATURE

 DRAWN BY
 ALS
 DATE 12/08/23

 DESIGN BY
 ALS
 DATE 12/08/23

 CHECKED BY
 DATE



ANOKA COUNTY HIGHWAY DEPT. SAP 002-601-065

TEMPORARY SIGNING AND PERMANENT STRIPING

Sheet 17 of 35 Sheets

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"	10			
K	W16-7PL	BLACK ON ORANGE	30" X 18"	10			
ROUGH	W8-8	BLACK ON ORANGE	48" X 48"	AS NEEDED			
LOW	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			
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"	AS NEEDED				
PASS WITH CARE	R4-2	BLACK ON WHITE	24" X 30"	AS NEEDED				

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

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

PCMS - MESSAGE SEQUENCE LAYOUT

		R	0	Α	D		
		W	0	R	K		
	В	Е	G	I	N	s	

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

NOTES:

- 1. 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.
- 4. 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.
- 8. ALL PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.
- 9. 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

SYMBOL DESCRIPTION

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



PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

					25			
NO	DATE	BY	CKD	APPR	REVISION			
NAME: I	NAME: P:\24-01-00\CSAH 01 (550 E HANSON-EGRET)\Base\Traffic\CSAH 1 - Signing and Striping							

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

LICENSE NO. 45129

SIGNATURE: 4444 4. 744 DATE: 1/22/2024

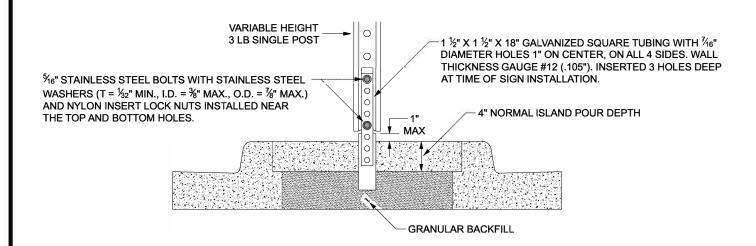


ANOKA COUNTY HIGHWAY DEPT. SAP 002-601-065

TEMPORARY SIGNING NOTES AND TABULATIONS

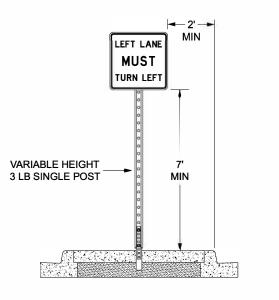
Sheet 18 of 35 Sheets

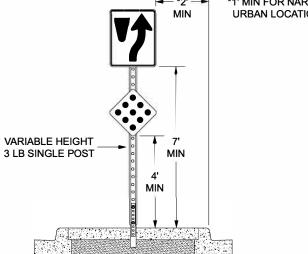
SIGN INSTALLATION TYPICALS



ISLAND MOUNT, BREAK-AWAY SIGN INSTALLATION TYPICAL

SIGN INSTALLATION TYPICAL **KEEP RIGHT/CLUSTER**





SIGN NOTES:

• TELESPAR INSERT NOT TO BE INSERTED MORE THAN 3 MOUNTING HOLES DEEP INTO BASE. TYPICAL ON ALL SIGN INSTALLATIONS.

INSTALLATION NEAR SHARED-USE PATHWAY (MN MUTCD):

• THE MINIMUM HEIGHT MEASURED VERTICALLY FROM THE SHARED-USE PATHWAY TO THE BOTTOM OF THE SIGN SHALL BE 7 FEET. IF A SECONDARY SIGN IS MOUNTED BELOW THE PRIMARY SIGN AND IS MOUNTED LESS THAN 7 FEET, IT SHALL NOT PROJECT MORE THAN 4 INCHES INTO THE SHARED-USE PATHWAY.

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 PRINT NAME: _SEAN R. THIEL SIGNATURE: Alem 4. Thin CKD APPR DATE BY DATE: 1/22/2024 LICENSE NO. 45129 NAME: P:\24-01-00\CSAH_01_(550 E HANSON-EGRET)\Base\Traffic\CSAH 1 - Signing and Striping

(6)		
DRAWN BY ALS	DATE _12/08/23_	
DESIGN BY ALS	DATE _12/08/23_	
CHECKED BY	DATE	ANOKA COUNTY

ANOKA COUNTY HIGHWAY DEPT.

MUTCD

CODE

R4-7

R3-4

R5-1

R3-7L

OM1-1

SIGN

DO NOT

ENTER

LEFT LANE

MUST

TURN LEFT

SIZE

24" X 30"

24" X 24"

36" X 36"

36" X 36"

18" X 18"

TYPE C SIGN PANEL TOTAL AREA

PERMANENT SIGNING TABULATIONS

TYPE C SIGN PANELS

QUANTITY

2

7

SQ FT

PANEL AREA

5.0

4.0

9.0

9.0

2.25

SQ FT

TOTAL AREA

35.0

8.0

9.0

9.0

15.75

76.75

MOUNTING

POST PER

INSTALLATION

1

1

MOUNTING

HEIGHT

7.0

7.0

7.0

7.0

7.0

PERMANENT SIGNING TYPICAL AND TABULATIONS

Sheet 19 of 35 Sheets

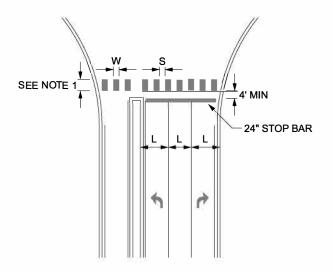
ISLAND MOUNT, BREAK-AWAY

*2' — MIN	*1' MIN FOR NARROW URBAN LOCATIONS
7' MIN	
4' MIN	

SAP 002-601-065

PAVEMENT MARKING TYPICAL

PEDESTRIAN CROSSWALK



(L) WIDTH OF INSIDE LANE	(W) WIDTH OF PAINTED AREAS	(S) 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'

CROSSWALK NOTES:

- THE BLOCKS SHALL BE A MINIMUM OF 6' AND AT LEAST AS LONG AS THE TRUNCATED DOMES.
 FOR FANNED TRUNCATED DOMES THE BLOCKS SHALL BE AT LEAST AS LONG AS THE
 APPROACHING SIDEWALK OR SHARED-USE PATH.
- 2. BLOCKS TO BE CENTERED ON CENTERLINE AND LANE LINES.
- 3. A MINIMUM OF 1.5' CLEAR DISTANCE SHALL BE LEFT ADJACENT TO THE CURB FACE. IF BLOCK FALLS INTO THIS DISTANCE IT MUST BE OMITTED.
- 4. ON TWO LANE TWO WAY STREETS, USE SPACING SHOWN FOR AN 11' INSIDE LANE.
- 5. FOR DIVIDED ROADWAYS, ADJUSTMENTS IN SPACING OF THE BLOCKS SHOULD BE MADE IN THE MEDIAN SO THAT THE BLOCKS ARE MAINTAINED IN THEIR PROPER LOCATION ACROSS THE TRAVELED PORTION OF THE ROADWAY.
- 6. AT SKEWED CROSSWALKS, THE BLOCKS ARE TO REMAIN PARALLEL TO THE LANE LINES.
- 7. THE BLOCKS SHALL BE PLACED SO THAT THEY ARE NOT LOCATED IN THE WHEEL PATH OF THE VEHICLES.
- LOCATION OF CROSSWALK BLOCKS, STOP BARS, SIGNAL LOOPS AND PEDESTRIAN RAMPS ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED AND FIELD VERIFIED DURING CONSTRUCTION BY THE FIELD ENGINEER.

SIGN NOTES:

• TELESPAR INSERT NOT TO BE INSERTED MORE THAN 3 MOUNTING HOLES DEEP INTO BASE. TYPICAL ON ALL SIGN INSTALLATIONS.

INSTALLATION NEAR SHARED-USE PATHWAY (MN MUTCD):

• THE MINIMUM HEIGHT MEASURED VERTICALLY FROM THE SHARED-USE PATHWAY TO THE BOTTOM OF THE SIGN SHALL BE 7 FEET. IF A SECONDARY SIGN IS MOUNTED BELOW THE PRIMARY SIGN AND IS MOUNTED LESS THAN 7 FEET, IT SHALL NOT PROJECT MORE THAN 4 INCHES INTO THE SHARED-USE PATHWAY.

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						P			
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NAME: P:\24-01-00\CSAH_01_(550 E HANSON-EGRET)\Base\Traffic\CSAH 1 - Signing and Striping									

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 NAMF: SEAN R. THIEL

THE STATE OF MINNESOTA.
PRINT NAME: SEAN R. THIEL

SIGNATURE: 1/22/2024 LICENSE NO. 45129

DRAWN BY ALS DATE 12/08/23

DESIGN BY ALS DATE 12/08/23

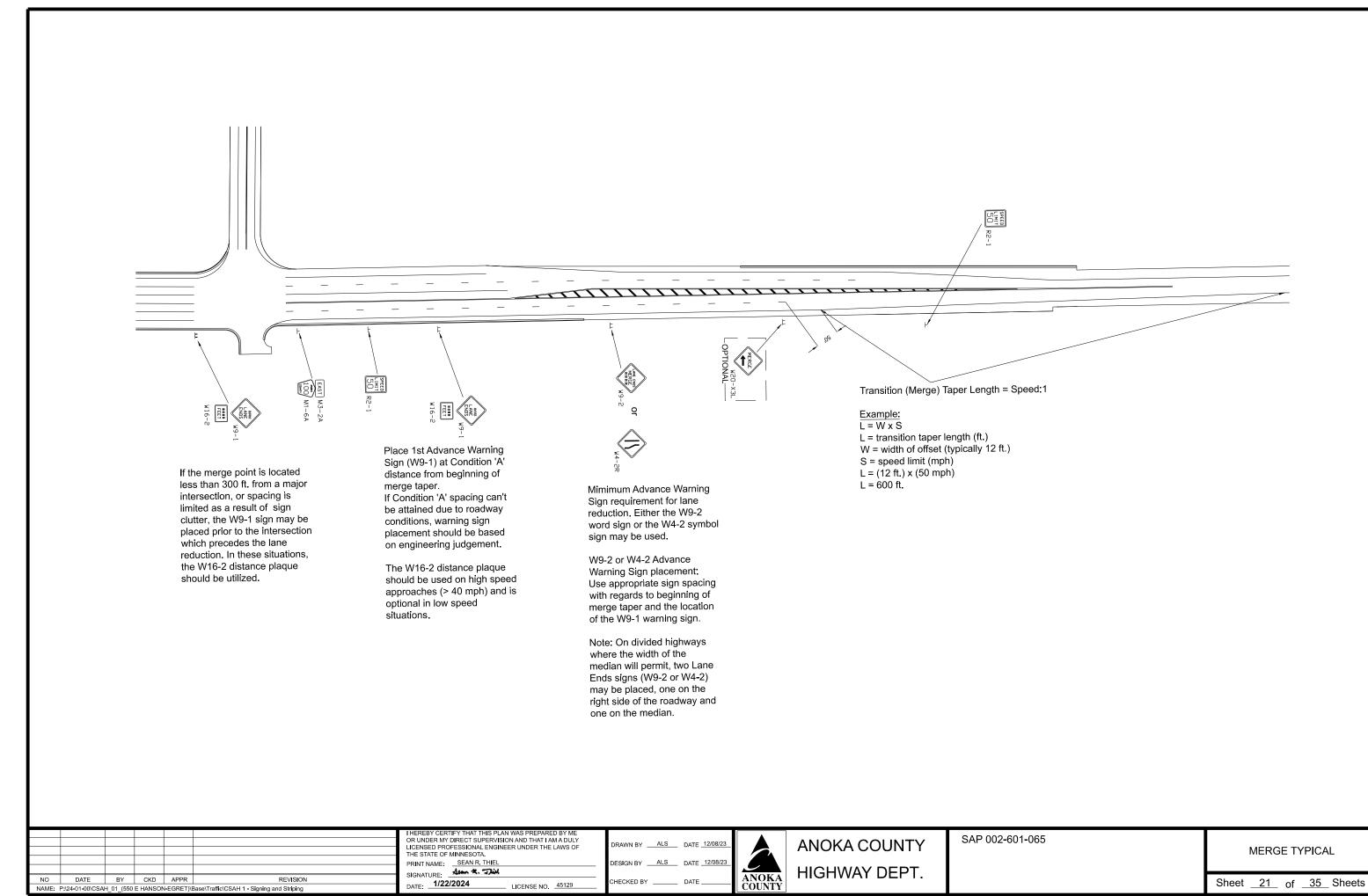
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ANOKA COUNTY HIGHWAY DEPT. SAP 002-601-065

PERMANENT PAVEMENT MARKING TYPICAL

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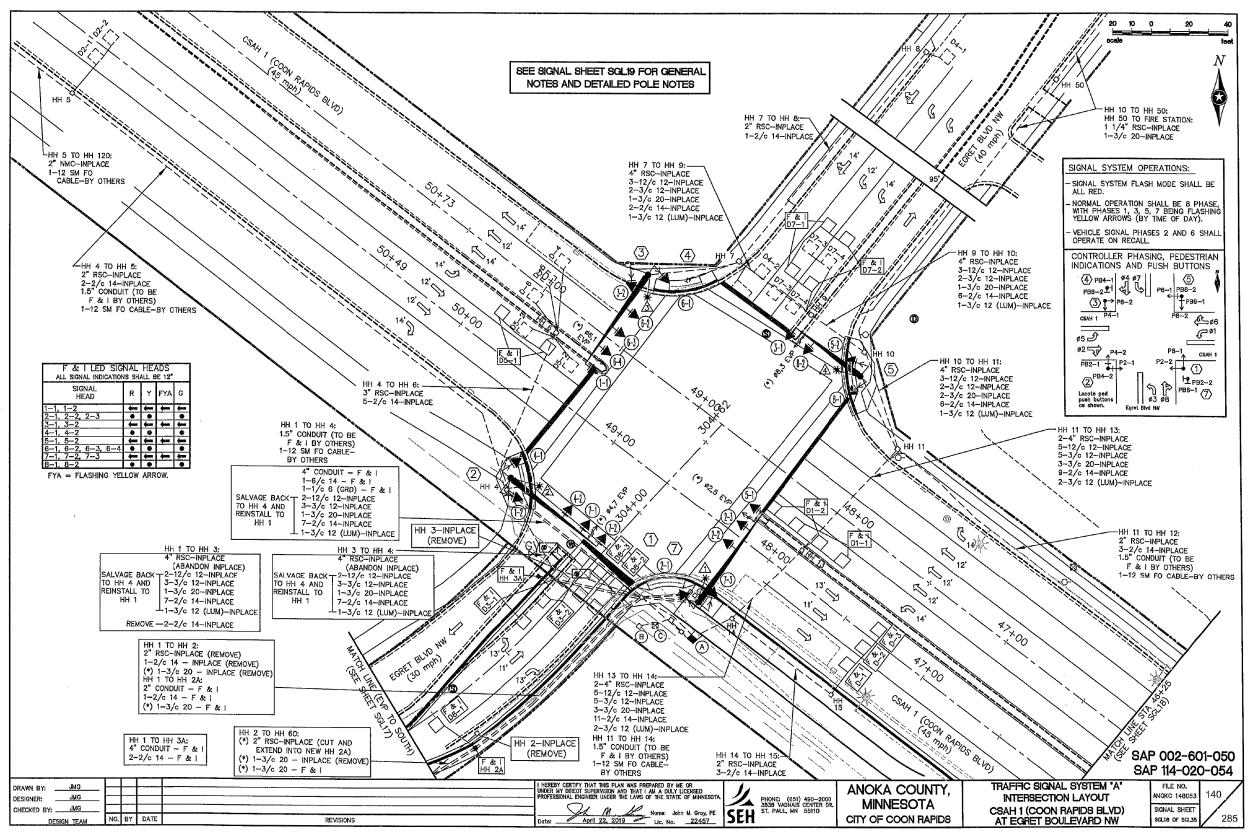
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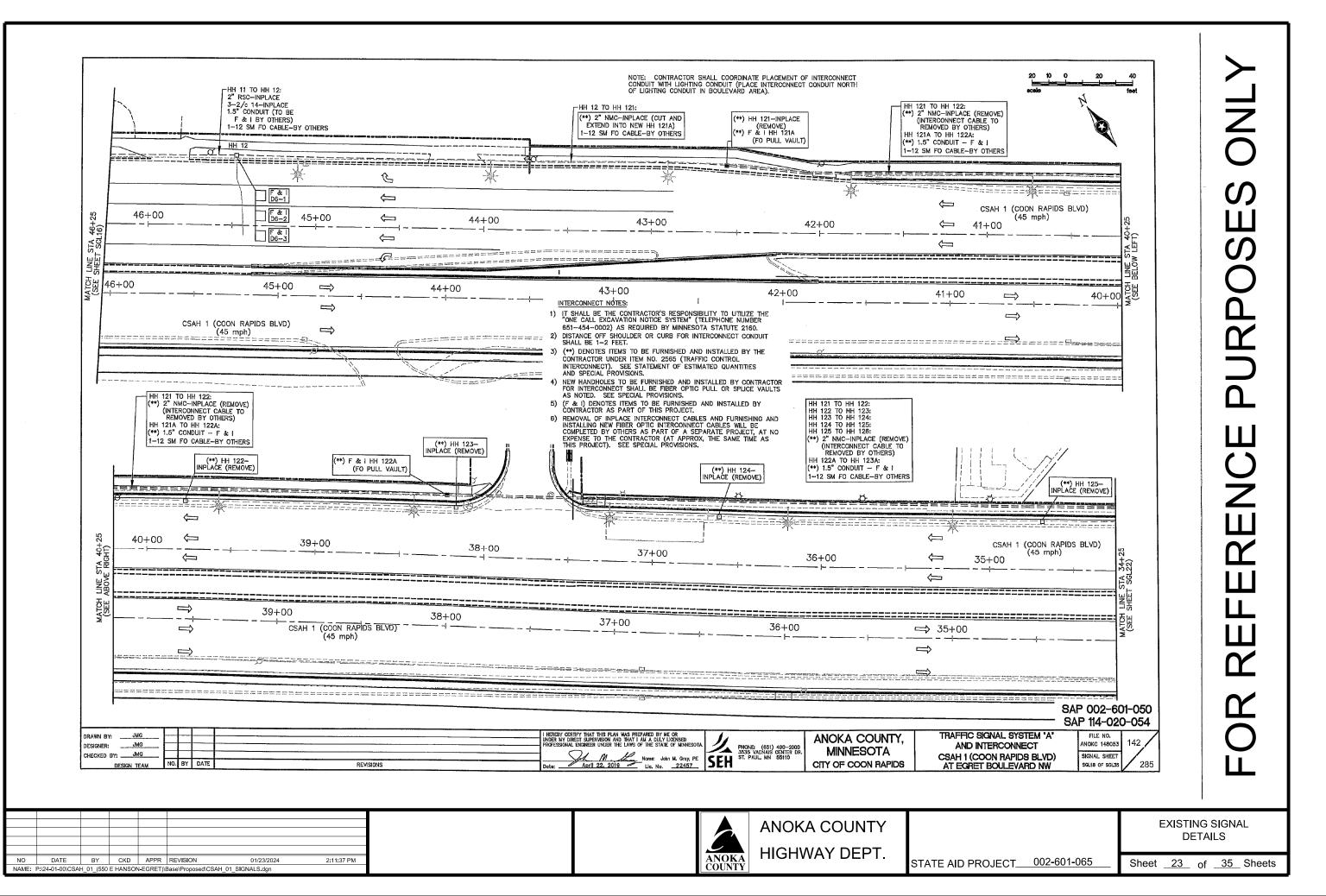


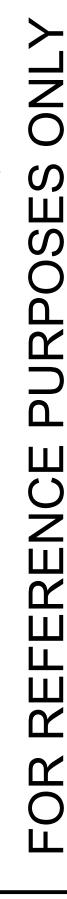
ANOKA COUNTY
HIGHWAY DEPT.

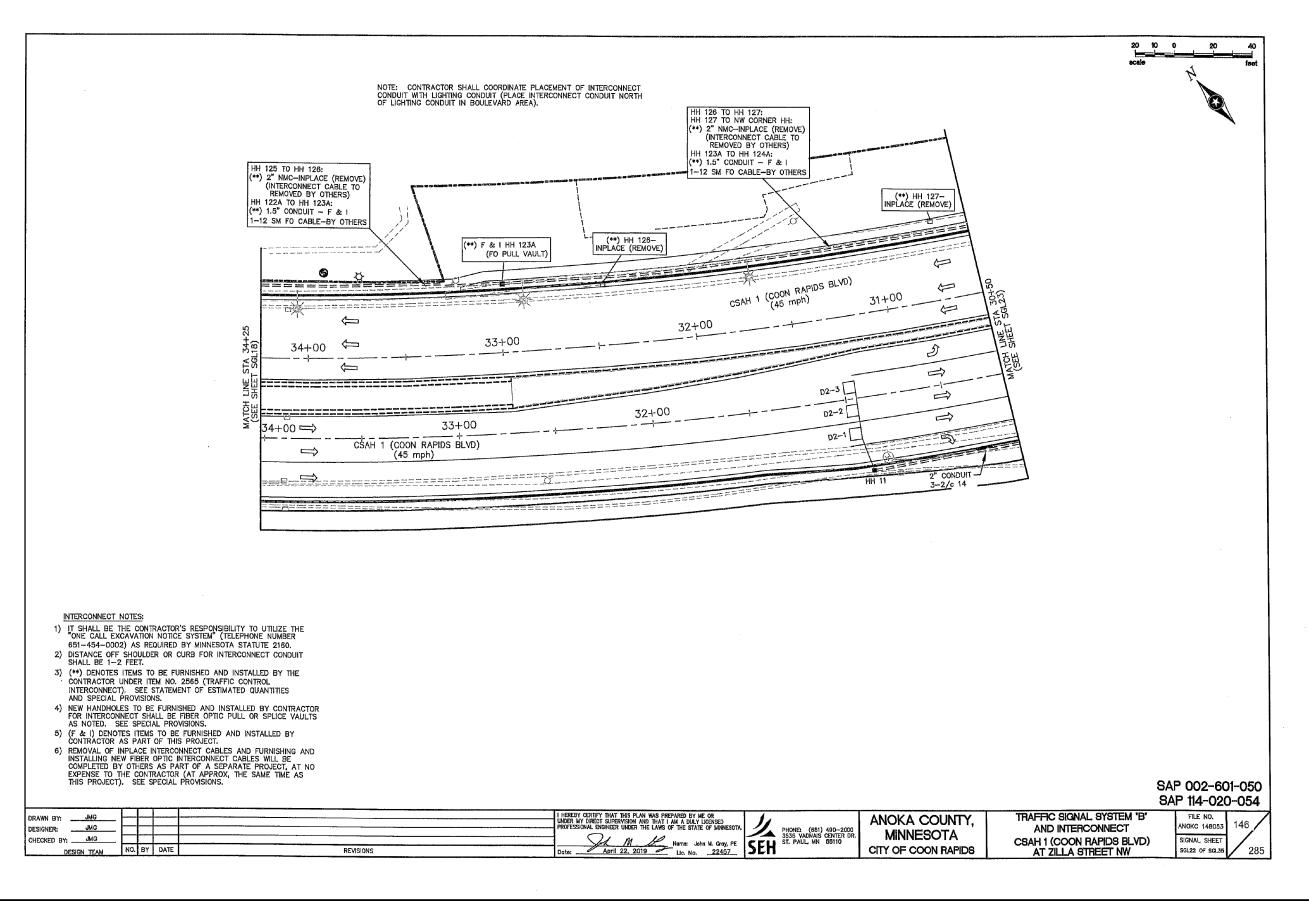
EXISTING SIGNAL DETAILS

STATE AID PROJECT____002-601-065

Sheet 22 of 35 Sheets







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 REVISION
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ANOKA COUNTY HIGHWAY DEPT. EXISTING SIGNAL DETAILS

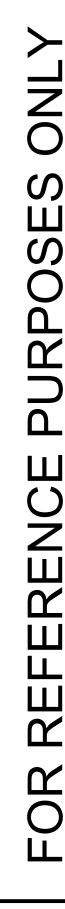
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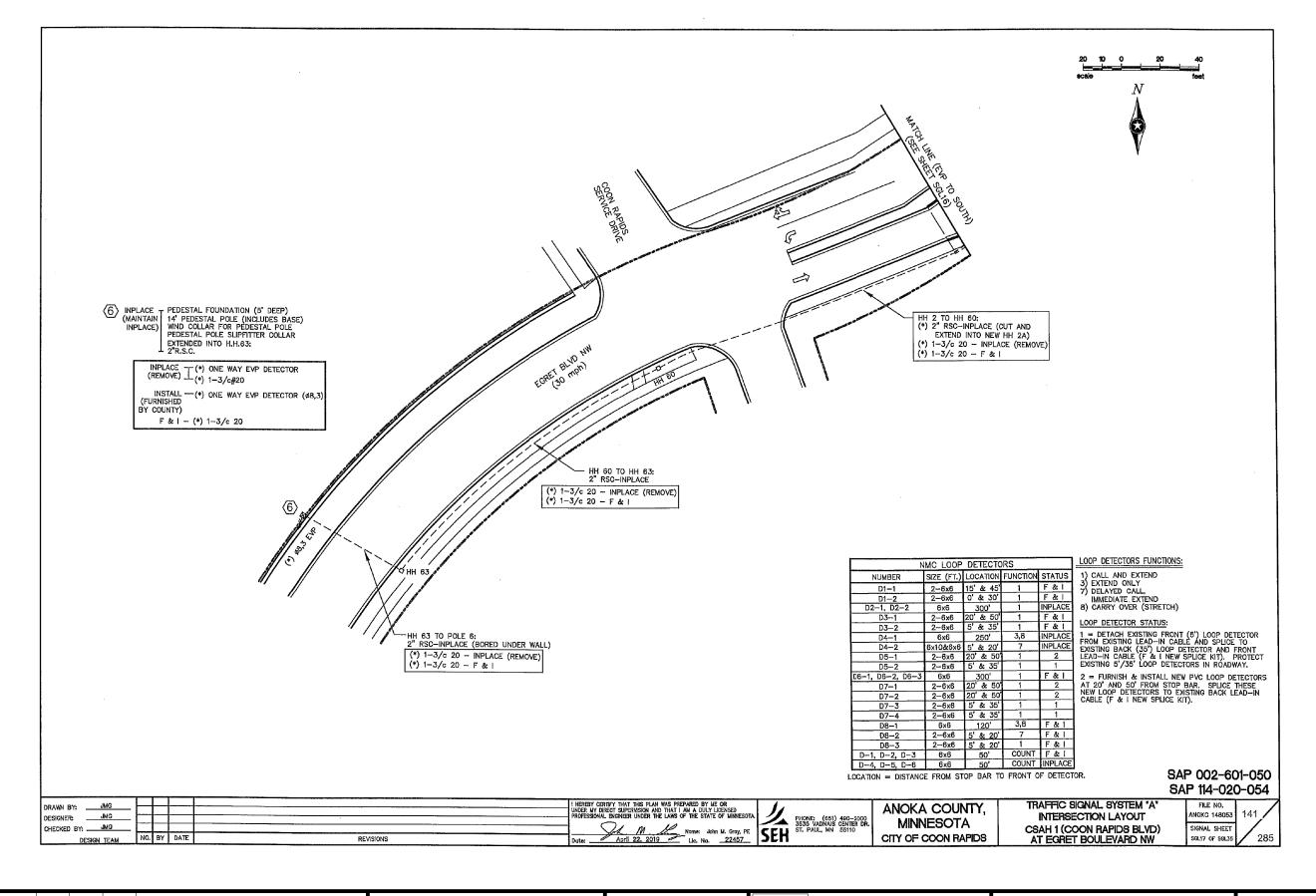
Sheet 24 of 35 Sheets

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ANOKA COUNTY HIGHWAY DEPT. EXISTING SIGNAL DETAILS

STATE AID PROJECT 002-601-065

Sheet 25 of 35 Sheets

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SYSTEM "A" NOTES:
                                                                                                                                                                              1 INPLACE
    1) ALL ITEMS OF THIS SIGNAL SYSTEM ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE, UNLESS OTHERWISE NOTED ON PLANS.
                                                                                                                                                                                                                   TYPE PA100-A-50-D40-9
                                                                                                                                                                                                                            3-ONE WAY SIGNALS-OVERHEAD
   2) LOCATION OF NEW HANDHOLES, LOOP DETECTORS, PUSH BUTTON STATION, AND FOUNDATION SHALL BE DETERMINED IN THE FIELD
                                                                                                                                                                                                                            2-TYPE 10B-POLE MOUNTED 90/180 DEG
                                                                                                                                                                                                                            2-PEDESTRIAN PUSH BUTTONS AND SIGNS
                                                                                                                                                                                                                           2-R6-1 SIGN PANELS-POLE MOUNTED
TYPE D SIGN PANEL-OVERHEAD
    3) CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING HANDHOLES IN THE VICINITY OF CONSTRUCTION; SHALL ADJUST HANDHOLES 1, 14, AND 15 (AND ALSO BOTH CONCRETE HANDHOLES ADJACENT TO NEW POLE 1) TO MATCH FINISHED SURROUNDING SIDEWALK/BOULEVARD GRADE; SHALL REMOVE THE EXISTING TYPE C CONCRETE FRAME AND COVER FROM THESE 5 EXISTING HANDHOLES AND SHALL FURNISH AND INSTALL A NEW PVC METALL FRAME AND COVER FROM THESE AND COVER FROM THE COVER FROM
                                                                                                                                                                                                                           ONE WAY EVP DETECTOR AND LIGHT
                                                                                                                                                                                                                            EXTENDED INTO HH 1:
                                                                                                                                                                                                                           3-12/c 12
2-3/c 12
1-3/c 20
                                                                                                                                                                                                                           ·1-3/c 12 (LUM)
           FRAME AND COVER IN THEIR PLACE; SHALL REMOVE INPLACE HANDHOLES 2 AND 3; AND SHALL FURNISH AND INSTALL NEW HANDHOLES 2A AND 3A (PVC HANDHOLES WITH METAL FRAMES
                                                                                                                                                                                                                               PA100 POLE FOUNDATION LUMINAIRE-LED
           AND COVERS) (ALL INCIDENTAL). SEE SPECIAL PROVISIONS FOR
                                                                                                                                                                                                                                 1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0'
2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 11' AND 23'
    4) SEE SPECIAL PROVISIONS FOR COUNTY FURNISHED MATERIALS.
                                                                                                                                                                                                                                  2-ANGLE MOUNT SIGNALS-POLE MOUNTED 90 DEG
                                                                                                                                                                                                                                      AND 180 DEG
  5) A 3/4" HALF COUPLING, 3/4" PIPE NIPPLE & CONDUIT OUTLET
BODY WILL BE FURNISHED AND INSTALLED 6 FEET FROM END
OF EACH MAST ARM (FOR EVP).
                                                                                                                                                                                                                                 2-ANGLE MOUNT C.D. PED INDICATIONS-POLE MOUNTED
90 DEG AND 180 DEG
                                                                                                                                                                                                                                  R10-X12 SIGN PANEL-ADJACENT TO 5-1
    6) SEE SPECIAL PROVISIONS AND DETAILS REGARDING SIGNS TO BE
FURNISHED AND INSTALLED BY CONTRACTOR (INCLUDED AS PART
OF PAY ITEM FOR "TRAFFIC CONTROL SIGNAL SYSTEM A").
                                                                                                                                                                                                                         TYPE D SIGN PANEL—OVERHEAD (D-1)

(*) ONE WAY EVP MOUNTING HARDWARE (FOR COUNTY FURNISHED DETECTOR AND CONFIRMATION LIGHT)

EXTEND. INTO H.H.1:

    EACH PEDESTRIAN INDICATION SHALL BE ONE SECTION LED FILLED
COUNTDOWN TIMER "HAND/WALKING PERSON" INDICATION.

                                                                                                                                                                                                                                  3" CONDUIT
                                                                                                                                                                                                                        3-12/c 14
(*) 1-3/c 14
    8) EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.
9) ALL LOOP DETECTORS ARE INPLACE AND SHALL BE REUSED AND MAINTAINED INPLACE AND OPERATIONAL, EXCEPT AS NOTED IN THE PLANS FOR NEW LOOP DETECTORS TO BE FURNISHED & INSTALLED BY THE CONTRACTOR. LOOP DETECTOR WRES FOR NEW LOOP DETECTORS SHALL BE CROSS-LINKED POLY-ETHYLENE (XLP) 12 AWG IN 3/4" NMC (SEE SPECIAL PROVISIONS).
                                                                                                                                                                                                                        (*) 1-3/c 20
1-3/c 14 (LUM)
                                                                                                                                                                                                                               2-1/c 6 (GRD)
                                                                                                                                                                                                INSTALL TYPE PA100-A-55-D30-9 (DAVIT AT 350 DEG)
(FURNISHED WITH MOUNTS AT 11' & 23')
                                                                                                                                                                                                (FURNISHED BY COUNTY) (WITH MOUNTS AT 11' & 23')

(*) ONE WAY EVP DETECTOR & LED CONFIRMATION LIGHT (#2,5)
    0) (*) DENOTES ITEMS TO BE INCLUDED AS PART OF THE PAY ITEM
        FOR ITEM NO. 2565 (EMERGENCY VEHICLE PREEMPTION SYSTEM A) SEE STATEMENT OF ESTIMATED AND SPECIAL PROVISIONS.
  11) (**) DENOTES ITEMS TO BE FURNISHED AND INSTALLED BY THE
         CONTRACTOR UNDER ITEM NO. 2565 (TRAFFIC CONTROL INTERCONNECT). SEE STATEMENT OF ESTIMATED QUANTITIES
                                                                                                                                                                                           AND SPECIAL PROVISIONS.
 12) ANY DAMAGE TO INPLACE TRAFFIC SIGNAL FACILITIES (CONDUIT, CABLES, HANDHOLES, FOUNDATIONS, ETC.), EITHER DUE TO TRAFFIC SIGNAL REVISION WORK OR SIDEWALK/MEDIAN/ROAD
                                                                                                                                                                                                    INPLACE T PEDESTRIAN PUSH BUTTON STATION (4" RSC) (REMOVE) \perp 2-PEDESTRIAN PUSH BUTTONS AND SIGNS
          CONSTRUCTION WORK, SHALL BE REPAIRED BY CONTRACTOR TO SATISFACTION OF THE ENGINEER, AT NO EXPENSE TO THE COUNTY.
                                                                                                                                                                                                         F & I T PEDESTRIAN PUSH BUTTON STATION (SEE DETAILS) 2-PEDESTRIAN PUSH BUTTONS AND SIGNS (R10-3e)
 13) CONTRACTOR SHALL MAINTAIN OPERATION OF A SIGNAL SYSTEM
         AT THIS INTERSECTION AT ALL TIMES — SEE TEMPORARY SIGNAL PLANS AND SPECIAL PROVISIONS.
  14) F & I = NEW, FURNISH AND INSTAL
                                                                                                                                                                                          INPLACE PA100 POLE FOUNDATION EXTENDED INTO HH 11:
        S & I = INPLACE, SALVAGE AND INSTALL.
15) ALL CONDUIT, CABLES AND CONDUCTORS, HANDHOLES, AND LOOP
DETECTORS ARE INPLACE AND SHALL BE REUSED AND MAINTAINED
INPLACE, EXCEPT WHERE BOXED IN AND DENOTED OTHERWISE.
                                                                                                                                                                                                                                  3" RSC
2-12/c 12
3-3/c 12
1-3/c 20
-1-3/c 12 (LUM)
 16) THE CONTRACTOR SHALL REMOVE, SALVAGE AND DISPOSE OF
          PORTIONS OF EXISTING PERMANENT SIGNAL SYSTEM IN ACCORDANCE WITH THE PLANS AND SPECIAL PROVISIONS (TO BE MEASURED AND PAID FOR SEPARATELY).
                                                                                                                                                                                                      INPLACE TYPE PA100-A-45-D40-9
(REMOVE) LUMINAIRE-250 W HPS
                                                                                                                                                                                                                                  LUMINAIRE-250 W HPS

2-ONE WAY SIGNALS-OVERHEAD

2-TYPE 108-POLE MOUNTED 90/180 DEG
  17) SEE SPECIAL PROVISIONS FOR FURTHER INFORMATION REGARDING FIBER OPTIC INTERCONNECT INSTALLATION WORK TO BE COMPLETED BY OTHERS AT NO EXPENSE TO CONTRACTOR, AT APPROXIMATELY
```

PA100 POLE FOUNDATION LUMINAIRE—LED 1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0'
2-STRAIGHT MOUNT SIGNALS-OVERHEAD AT 11' AND 23'
2-ANGLE MOUNT SIGNALS-POLE MOUNTED 90 DEG AND 180 DEG 2-ANGLE MOUNT C.D. PED INDICATIONS-POLE MOUNTED 90 DEG AND 180 DEG 2-PEDESTRIAN PUSH BUTTONS AND SIGNS (R10-3e) R10-X12 SIGN PANEL-ADJACENT TO 7-1 TYPE D SIGN PANEL—OVERHEAD (D-2)

(*) ONE WAY EVP MOUNTING HARDWARE (FOR COUNTY FURNISHED DETECTOR AND CONFIRMATION LIGHT) 1-6/c 14 1-1/c 6 (GRD) INSTALL — TYPE PA100-A-55-D30-9 (DAVIT AT 350 DEG)
IRNISHED (WITH MOUNTS AT 11' & 23') BY COUNTY) (*) ONE WAY EVP DETECTOR & LED CONFIRMATION LIGHT (#4,7) PEDESTRIAN PUSH BUTTON STATON (SEE DETAILS)
2—PEDESTRIAN PUSH BUTTONS AND SIGNS (R10-3e)
EXTEND INTO HH 1:
1" CONDUIT
2-2/c 14
2-1/c 6 (GRD) B INPLACE T SERVICE CABINET FOUNDATION (MAINTAIN BBU SIGNAL SERVICE CABINET CABINET TO SOP: 3-1/c 2 CABINET TO HH 16: METERED SIGNAL SERVICE 2" RSC 3-1/c 6 UNMETERED STREET LIGHT SERVICE 上 2-3/c 12 (LUM) INPLACE -- 1-3/c 12 (LUM) (S & I) — 1-3/c 12 (LUM) F & I --- 1-3/c 14 (LUM) AND 180 DEG
2—ANGLE MOUNT C.D. PED INDICATIONS—POLE MOUNTED 90 DEG AND 180 DEG C INPLACE CABINET FOUNDATION (REMOVE) OLD SERVICE CABINET 2-PEDESTRIAN PUSH BUTTONS AND SIGNS (R10-3e) R10-X12 SIGN PANEL-ADJACENT TO 3-1
TYPE D SIGN PANEL-OVERHEAD (D-4)
(*) ONE WAY EVP MOUNTING HARDWARE (FOR COUNTY FURNISHED DETECTOR AND CONFIRMATION LIGHT) CONDUCTORS REMOVE ALL CONDUITS
AND CAP ENDS

(2) INPLACE T PA100 POLE FOUNDATION EXTENDED INTO HH 4: 3" RSC

INPLACE 72-12/c 12 (S & !) 3-3/c 12 1-3/c 20 1-3/c 12 (LUM)

F&I -

INPLACE TYPE PA100-A-50-D40-9 (REMOVE) LUMINAIRE-250 W HPS

2-ONE WAY SIGNALS-OVERHEAD 2-TYPE 10B-POLE MOUNTED 90/180 DEG

2-PEDESTRIAN PUSH BUTTONS AND SIGNS 2-R6-1 SIGN PANELS-POLE MOUNTED TYPE D SIGN PANEL-OVERHEAD

ONE WAY EVP DETECTOR AND LIGHT

(MAINTAIN T EXTENDED INTO HH 7: EXTENDED INTO HH 7: 3" RSC 3-12/c 12 INPLACE) 3-3/c 12 1-3/c 12 (LUM) INPLACE TYPE PA100-A-55-D40-9 (REMOVE) LUMINAIRE-250 W HPS 2-TYPE 10B-POLE MOUNTED 90/180 DEG 2-R6-1 SIGN PANELS-POLE MOUNTED TYPE D SIGN PANEL-OVERHEAD ONE WAY EVP DETECTOR AND LIGHT PA100 POLE FOUNDATION LUMINAIRE—LED 1—ANGLE MOUNT SIGNAL—OVERHEAD AT 0' 3—STRAIGHT MOUNT SIGNALS—OVERHEAD AT 12', 24', 36' 2-ANGLE MOUNT SIGNALS-POLE MOUNTED 90 DEG 2-ANGLE MOUNT C.D. PED INDICATIONS-POLE MOUNTED 90 DEG AND 180 DEG R10-X12 SIGN PANEL-ADJACENT TO 1-1 TYPE D SIGN PANEL-OVERHEAD (D-3)

(*) ONE WAY EVP MOUNTING HARDWARE (FOR COUNTY FURNISHED DETECTOR AND CONFIRMATION LIGHT) TYPE PA100-A-55-D30-9 (DAVIT AT 350 DEG) (FURNISHED WITH MOUNTS AT 12', 24', 36')

BY COUNTY)

(*) ONE WAY EVP DETECTOR & LED CONFIRMATION LIGHT (\$6,1) INPLACE --- CONTROLLER AND CABINET (SALVAGE) INSTALL — CONTROLLER AND CABINET (FURNISHED BY COUNTY) INPLACE — CONTROLLER CABINET FOUNDATION (MAINTAIN | CABINET TO HH 16: CABINET TO HH 16: METERED SIGNAL SERVICE 2" RSC 3-1/c 6 INPLACE) 2-3" RSC STUBBED OUT FROM
CONTROLLER CABINET TO NORTH
(BOTH ENDS THREADED & CAPPED) (BOTH ENDS THREADED & CAPE CABINET TO HH 14: 2-4" RSC 5-12/c 12 5-3/c 12 3-3/c 20 14-2/c 14 1-12 SM FO CABLE (BY OTHERS) CABINET TO HH 1: 2-4" RSC 1-12 SM FO CABLE (BY OTHERS) INPLACE 7 2-12/c 12 (S & I) 3-3/c 12 1-3/c 20 7-2/c 14 3-12/c 12 2-3/c 12 (REMOVE) 2-3/c 20 3-12/c 14 1-6/c 14 (*) 1-3/c 14 (*) 2-3/c 14 (*) 2-3/c 20 7-2/c 14 - 1-1/c 6 (GRD)

SAP 002-601-050 SAP 114-020-054

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ŀ	RAWN BY:JMG		_		I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED	1.	ANOKA COUNTY,	TRAFFIC SIGNAL SYSTEM "A"	FILE NO,	
ŀ	ESIGNER: JMG				PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	■ A FRUNE: (001) 490-2000		POLE, GENERAL AND CABINET NOTES	ANOKC 148053	143
ŀ	CHECKED BY:JMG				M. S. Nome: John M. Gray, PE	3535 VADNAIS CENTER DE ST. PAUL, MN 55110	IVIII (I TEE O I / T	CSAH 1 (COON RAPIDS BLVD)	SIGNAL SHEET	
L	DESIGN TEAM	NO. BY	DATE	REVISIONS	Date: April 22, 2019 Lic. No. 22457) SEH	CITY OF COON PIAPIDS	AT EGRET BOULEVARD NW	SGL19 OF SGL35	285

2—PEDESTRIAN PUSH BUTTONS AND SIGNS
2—R6—1 SIGN PANELS—POLE MOUNTED
TYPE D SIGN PANEL—OVERHEAD

1-ANGLE MOUNT SIGNAL-OVERHEAD AT 0' 1-STRAIGHT MOUNT SIGNAL-OVERHEAD AT 12'

2-ANGLE MOUNT SIGNALS-POLE MOUNTED 90 DEG

TYPE PA100-A-40-D30-9 (DAVIT AT 350 DEG)

(*) ONE WAY EVP DETECTOR & LED CONFIRMATION LIGHT (#8,3)

ONE WAY EVP DETECTOR AND LIGHT

PA100 POLE FOUNDATION LUMINAIRE-LED

(WITH MOUNT AT 12')

INSTALL (FURNISHED

BY COUNTY)

2:12:19 PM DATE CKD APPR REVISION BY 01/23/2024 NAME: P:\24-01-00\CSAH 01 (550 E HANSON-EGRET)\Base\Proposed\CSAH 01 SIGNALS.dor

THE SAME TIME AS THIS PROJECT.

18) CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION AND WORK TO ACCOMMODATE OPERATION OF BOTH THE TEMPORARY SIGNAL

SYSTEM AND THE NEW PERMANENT SIGNAL SYSTEM, INCLUDING ALL REQUIRED WORK AT POLE 1 (REMOVAL AND REPLACEMENT

OF PA100 FOUNDATION. RELOCATION OF INPLACE MAST ARM AND

WHEN NEW COUNTY FURNISHED MAST ARM AND POLE IS AVAILABLE FOR INSTALLATION BY THE CONTRACTOR) (INCIDENTAL TO BOTH

POLE ONTO NEW FOUNDATION FOR TEMPORARY SIGNAL SYSTEM, AND REMOVAL OF INPLACE MAST ARM AND POLE FROM FOUNDATION

THE NEW AND TEMPORARY SIGNAL SYSTEM PAY ITEMS).

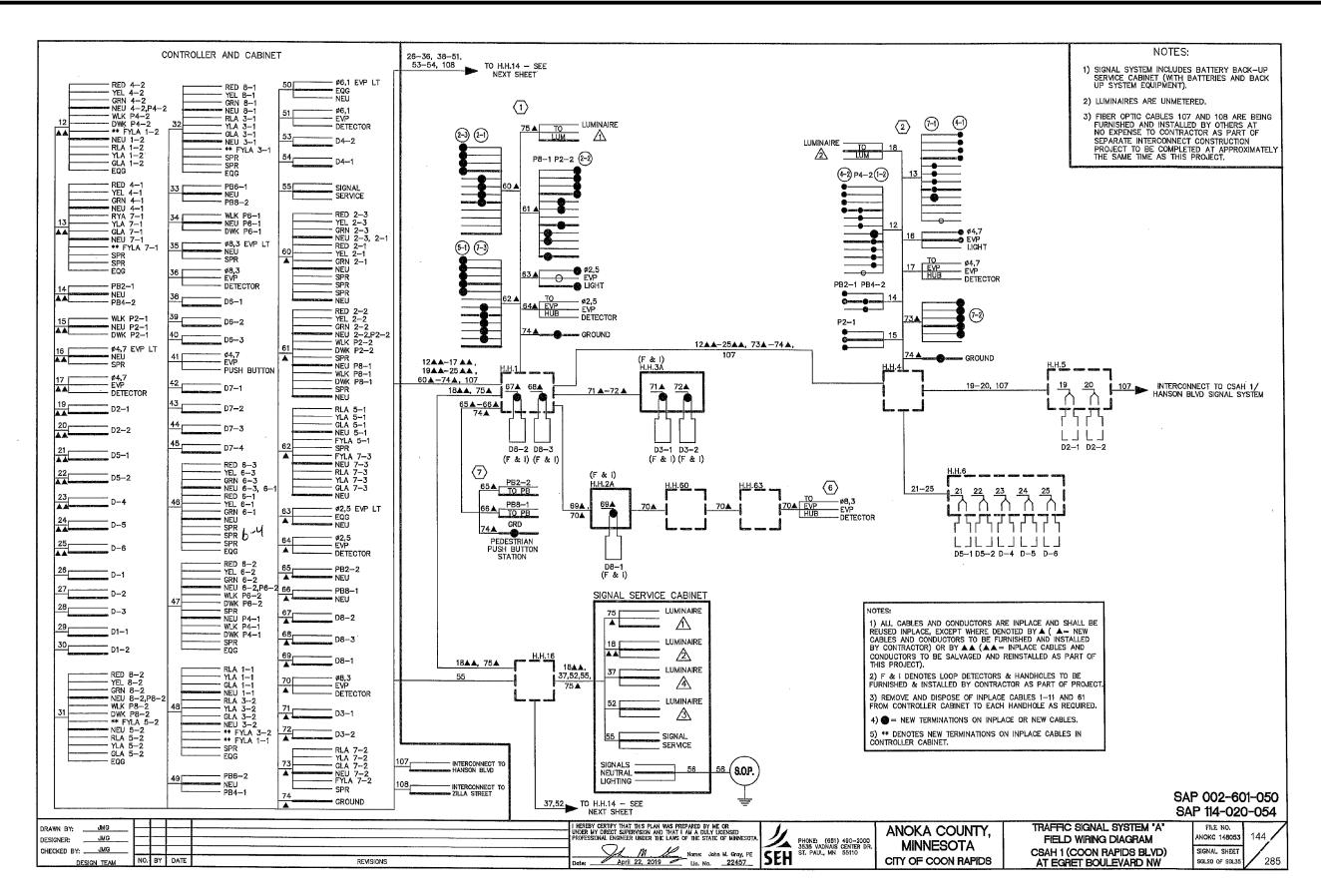


ANOKA COUNTY HIGHWAY DEPT.

STATE AID PROJECT 002-601-065

EXISTING SIGNAL DETAILS

Sheet 26 of 35 Sheets



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01/23/2024

BY CKD APPR REVISION

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DATE

ANOKA COUNTY
HIGHWAY DEPT.

EXISTING SIGNAL DETAILS

STATE AID PROJECT 002-601-065

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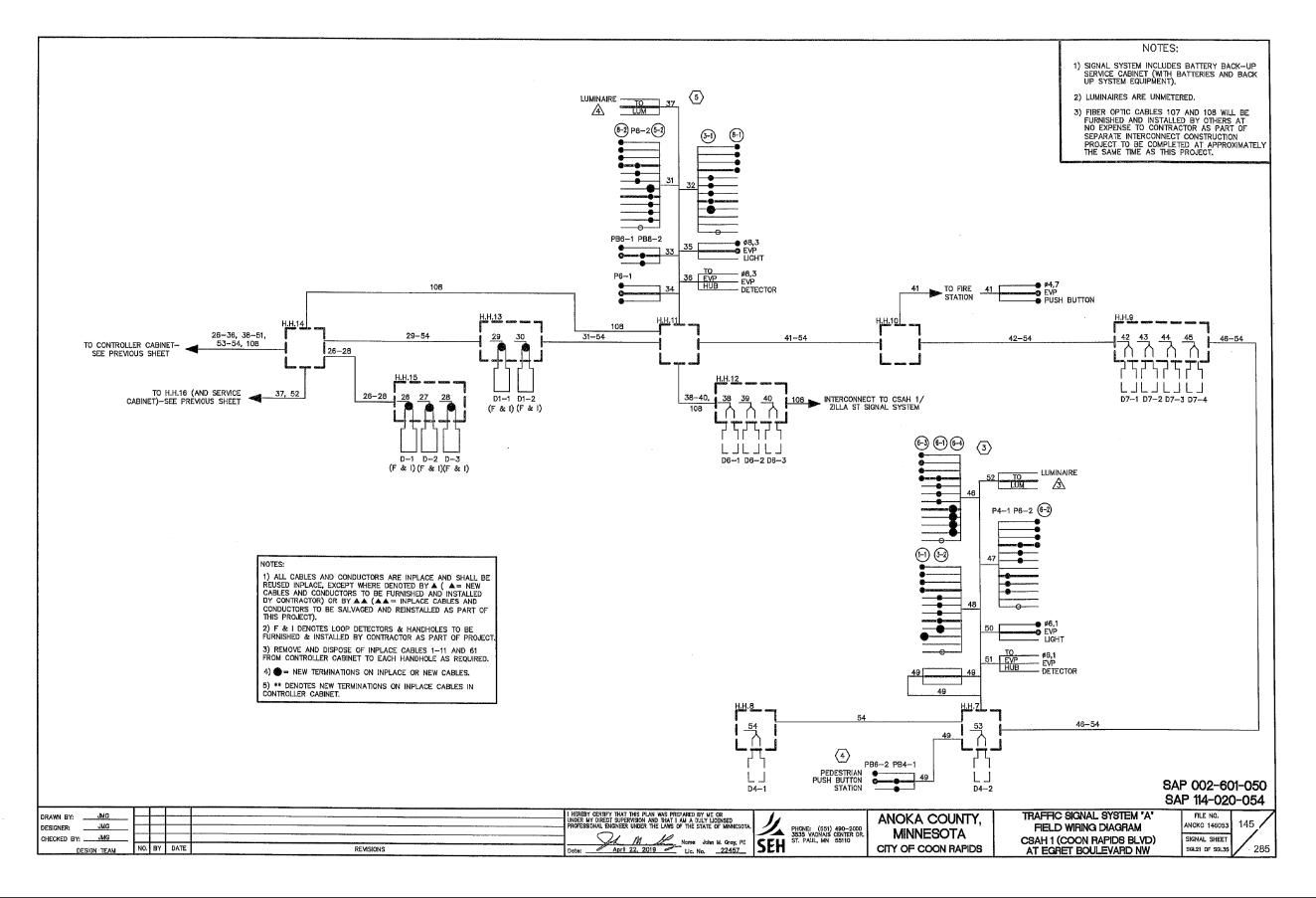
BY CKD APPR REVISION

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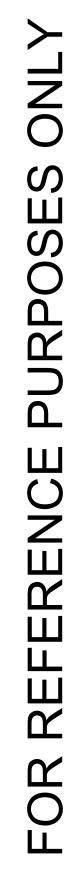
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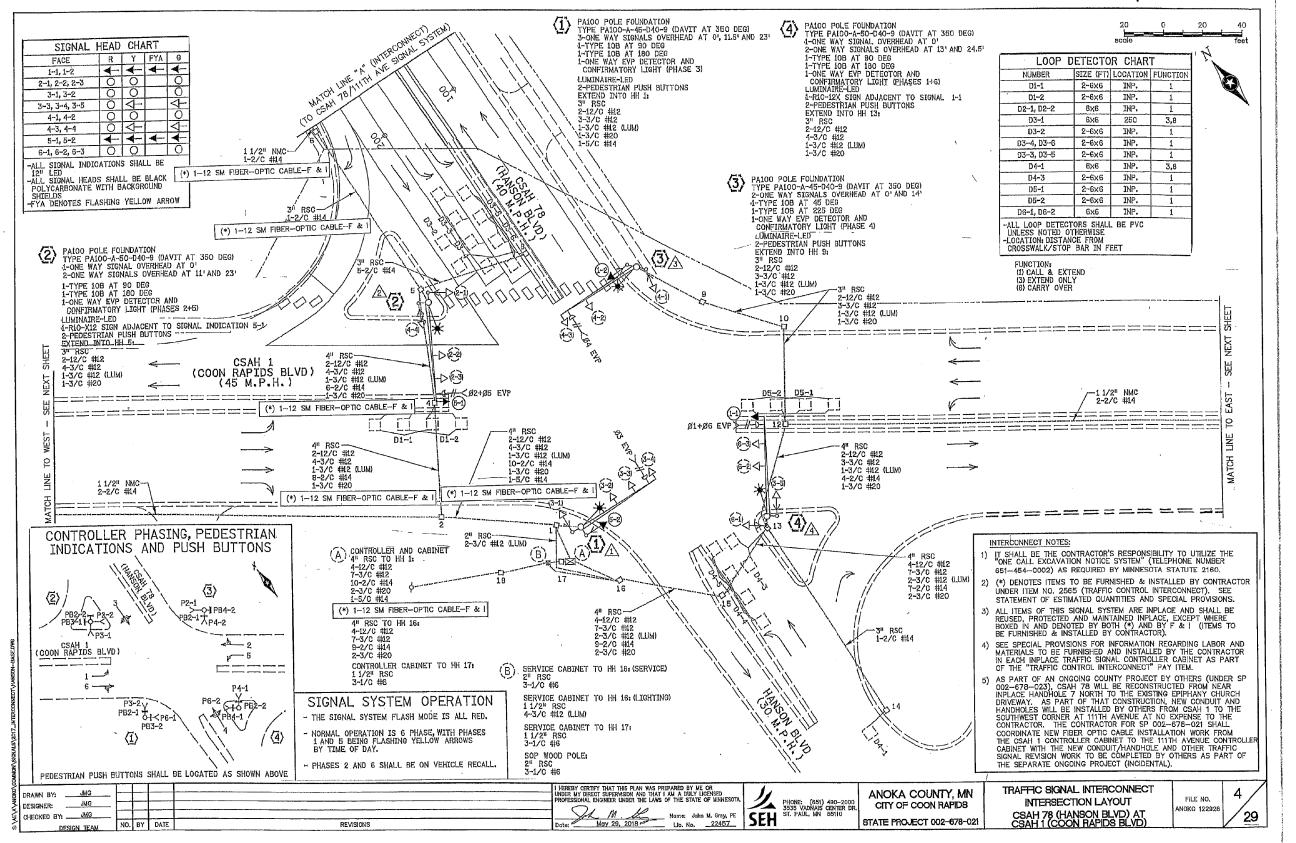
ANOKA COUNTY HIGHWAY DEPT.

EXISTING SIGNAL DETAILS

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ANOKA COUNTY HIGHWAY DEPT.

EXISTING SIGNAL

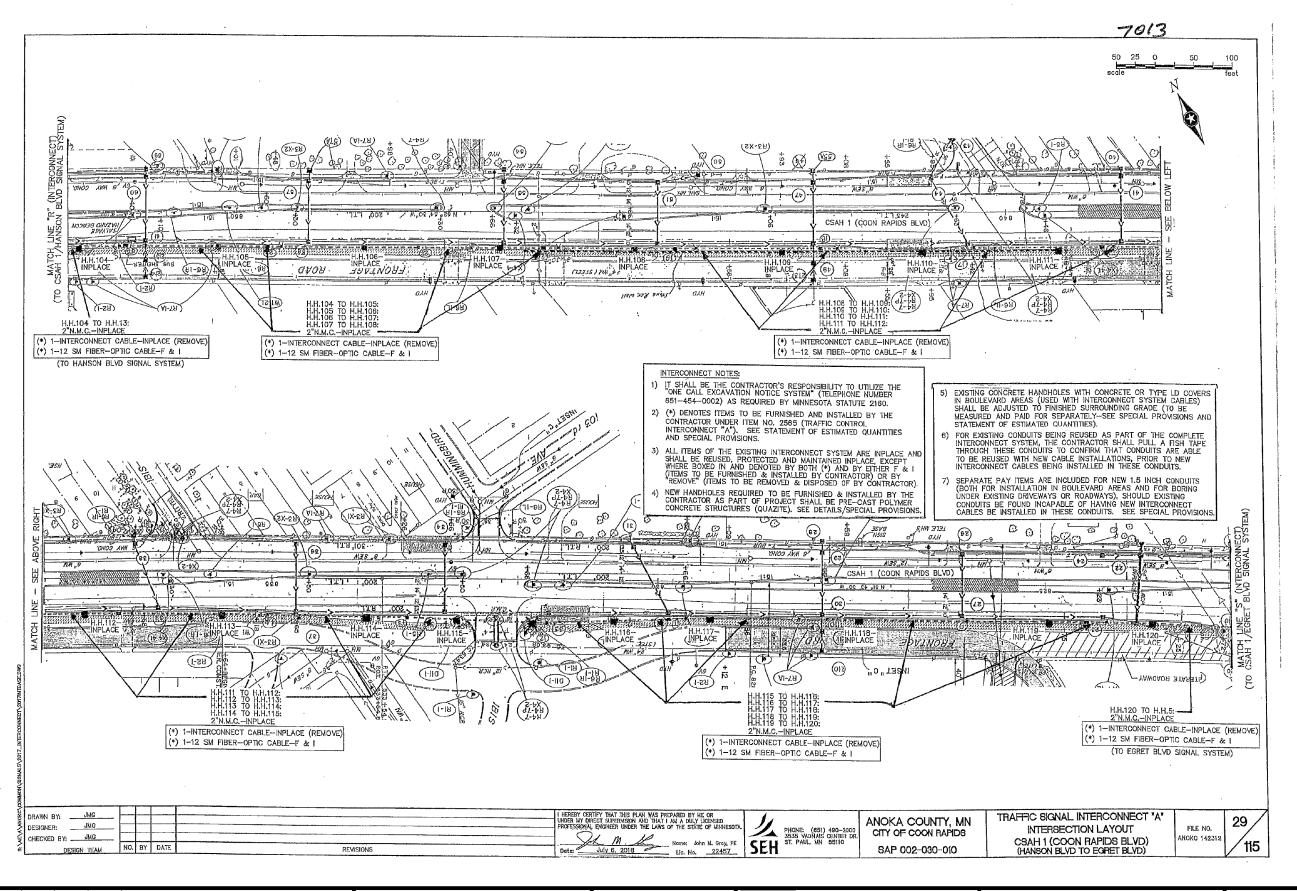
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DETAILS

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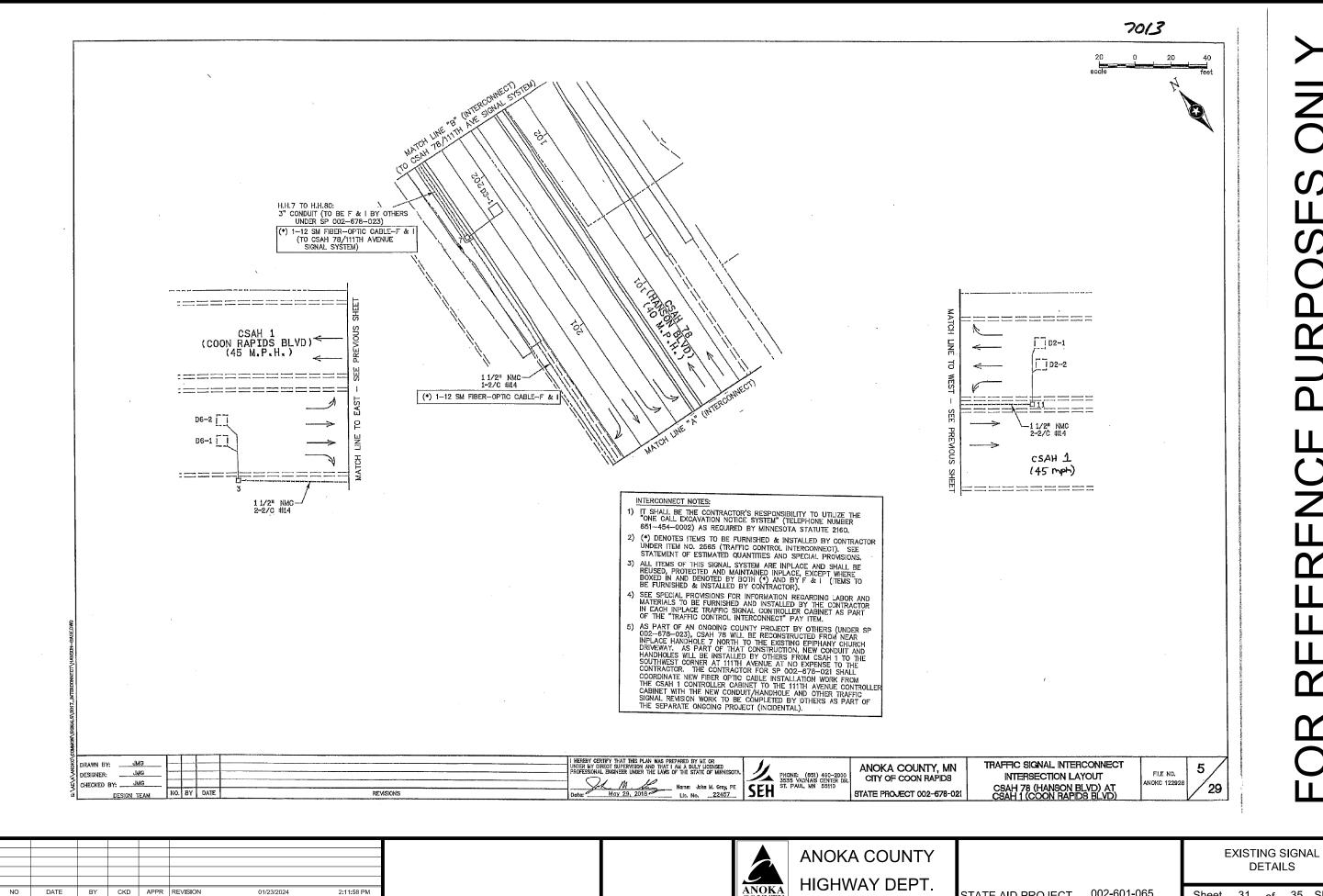
ANOKA COUNTY HIGHWAY DEPT.

DETAILS

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EXISTING SIGNAL



DATE

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ANOKA COUNTY
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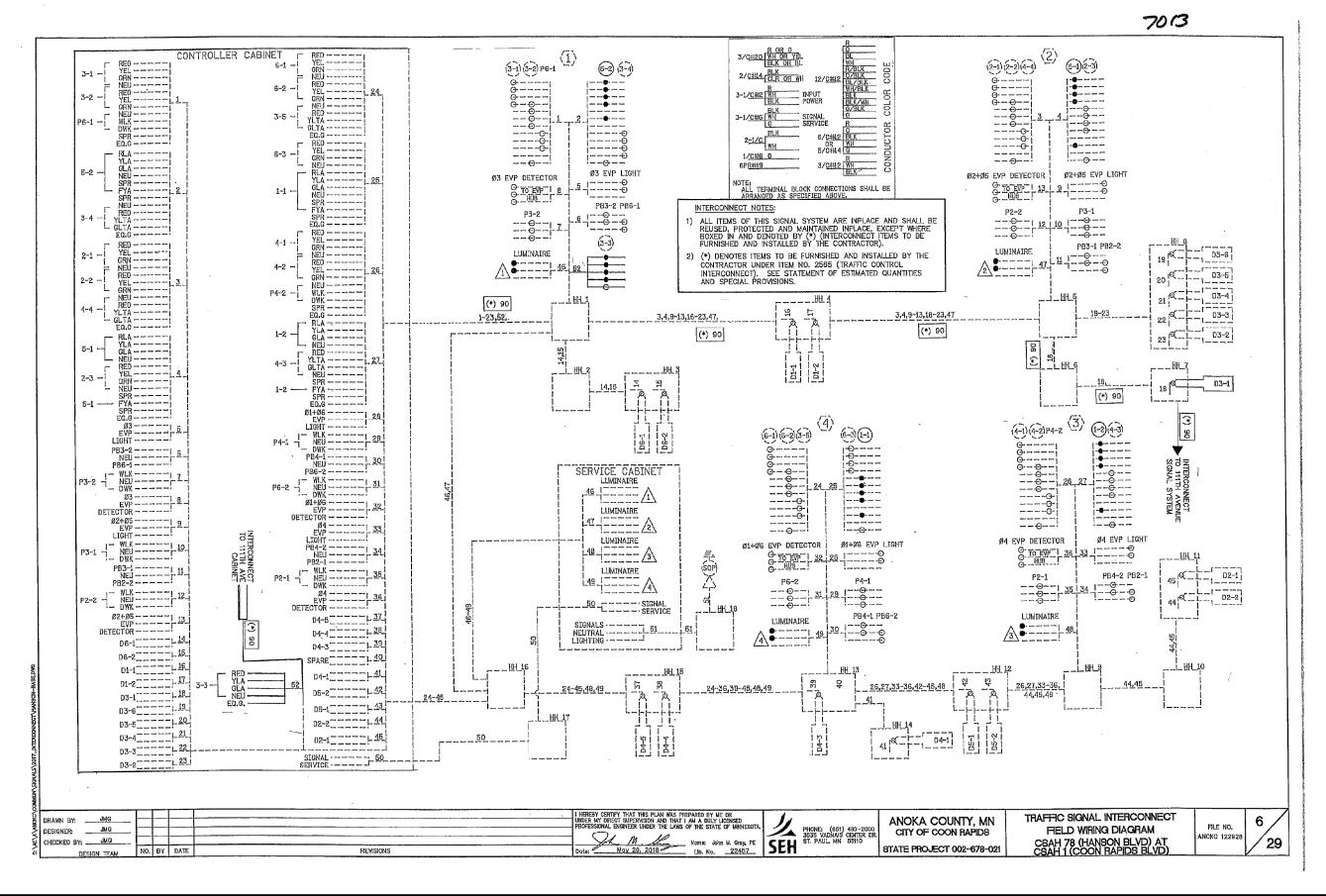
EXISTING SIGNAL DETAILS

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