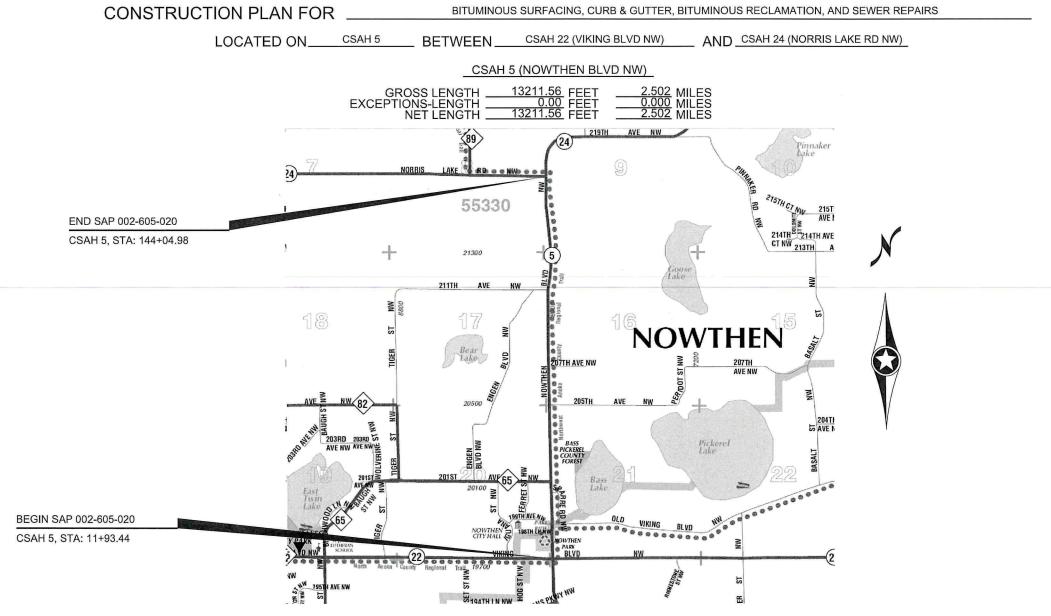
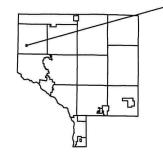
MINNESOTA DEPARTMENT OF TRANSPORTATION **ANOKA COUNTY**



PROJECT LOCATION

DESIGN DESIGNATION (CSAH 5) ESAL 20 FUNCTIONAL CLASSIFICATION _ R VALUE NO. OF TRAFFIC LANES 2 NO. OF PARKING LANES 0 3901 DESIGN SPEED 55 MPH ADT (2024) 3901 STOPPING SIGHT DISTANCE BASED ON: PROJ. ADT (2044) 230 HEIGHT OF EYE 3.5' HEIGHT OF OBJECT 2.0' PROJ. HCADT (2044) SOIL FACTOR N/A DESIGN SPEED NOT ACHIEVED AT: 10



CITY OF NOWTHEN ANOKA COUNTY MN/DOT TRANSPORTATION DISTRICT - METRO SECTION 9,16,17,20 AND 21 TOWNSHIP 33 NORTH RANGE 25 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 THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE

THIS PLAN CONTAINS 24 SHEETS

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3	TABULATIONS
4	SUPER ELEVATION TAB
5-7	TYPICAL SECTION
8-12	DETAILS
13-17	CONSTRUCTION PLAN
18	PERMANENT PAVEMENT MARKING NOTES AND TABULATIONS
19-23	TEMPORARY SIGNING AND PERMANENT STRIPING
24	TEMPORARY SIGNING NOTES AND TABULATIONS

ANOKA COUNTY ENGINEER

CITY OF NOWTHEN ENGINEER

Digitally signed by Lucas Lortie Lucas Lortie Date: 2024.01.11 10:27:47

For DISTRICT STATE AID ENGINEER; REVIEWED FOR COMPLIANCE WITH STATE AID RULES/POLICY

.ucas Lortie Digitally signed by Lucas Lortie Date: 2024.01.11 10:27:58

STATE AID ENGINEER: For APPROVED FOR STATE AID FUNDING

OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF

THE STATE OF MINNESOTA PRINT NAME: DATE BY CKD APPR REVISION 11:45:23 AM DATE: 12-08-2023 26511 NAME: P:\24-01-00\CSAH 05 (VIKING BLVD-CSAH 24)\Base\Proposed\TITLE.dgr



ANOKA COUNTY HIGHWAY DEPT.

STATE AID PROJECT 002-605-020

Sheet __1_ of __24_ Sheets

TITLE SHEET

		STATEMENT OF ESTIMATED QUAN	NTITIES	
Notes	Item Number	ITEM DESCRIPTION	Unit	TOTAL PROJECT QUANTITIES ESTIMATED
	2021.501	MOBILIZATION	LUMP SUM	1
	2104.502	REMOVE BITUMINOUS FLUME	EACH	1
1	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	70
1	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	550
1	2104.503	REMOVE CURB AND GUTTER	LIN FT	63
	2104.503	REMOVE BITUMINOUS CURB	LIN FT	10
2	2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	140
3	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	1245
3	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	1708
	2105.607	COMMON EXCAVATION	CU YD	36
4		MOTOR GRADER	HOUR	18
5	2130.523	WATER	M GALLON	20
6,7	2211.509	AGGREGATE BASE CLASS 5	TON	1782
8	2215.504	FULL DEPTH RECLAMATION	SQ YD	61040
9		HAUL FULL DEPTH RECLAMATION (LV)	CU YD	772
10	2221.509	SHOULDER BASE AGGREGATE CLASS 5	TON	990
11	2232.604	MILL BITUMINOUS PAVEMENT (SPECIAL)	SQ YD	73
	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	3084
12	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3;B)	TON	143
13	2360.509	TYPE SP 12.5 BITUMINOUS MIXTURE FOR PATCHING	TON	6
14	2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (4;C)	TON	386
15	2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (4;C)	TON	14185
16	2506.502	CASTING ASSEMBLY	EACH	8
18	2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	2
17	2506.602	GROUT CATCH BASIN OR MANHOLE	EACH	3
	2506.602	REPAIR CATCH BASINS	EACH	4
	2531.503	CONCRETE CURB AND GUTTER DESIGN B418	LIN FT	1164
		CONCRETE CURB AND GUTTER DESIGN S512	LIN FT	36
		8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	140
	2531.604	CONCRETE DRAINAGE FLUME	SQ YD	9
	2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	19
19	2540.602	MAIL BOX SUPPORT	EACH	30
	2563.601	TRAFFIC CONTROL SUPERVISOR	LUMP SUM	1
20,21,22	2563.601	TRAFFIC CONTROL	LUMP SUM	1
23		PORTABLE CHANGEABLE MESSAGE SIGN	UNIT DAY	20
24	2573.502	STORM DRAIN INLET PROTECTION	EACH	13
		COMMON TOPSOIL BORROW	CUYD	311
25	2575.508	HYDRAULIC REINFORCED FIBER MATRIX	POUND	762
26		4" SOLID LINE PREFORM TAPE GROUND IN (WR)	LIN FT	30546
26		4" BROKEN LINE PREFORM TAPE GROUND IN (WR)	LIN FT	1859
26		8" DOTTED LINE PREFORM TAPE GROUND IN (WR)	LIN FT	144
26		4" DOUBLE SOLID LINE PREFORM TAPE GROUND IN (WR)	LIN FT	3715

	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								

	CONSTRUCTION NOTES
1	REFERENCE DETAILS (PAGE 13-17) FOR REMOVAL DETAILS
2	ITEMFOR CONCRETE DRIVEWAYS. CONTRACTOR IS RESPONSIBLE FOR CONTACTING PROPERTY OWNER 48 HOURS BEFORE STARTING OPERATION.
3	ITEMFOR BITUMINOUS DRIVEWAYS AND STREET APPROACHES. CONTRACTOR IS RESPONSIBLE FOR CONTACTING PROPERTY OWNER 48 HOURS BEFORE STARTING OPERATION.
4	ITEM USED TO MOVE EXCESS RECLAIM MATERIAL AT THE RECLAIM AREA LIMITS TO CREATE A SMOOTH TRANSITION BETWEEN THE PROPOSED AND EXISTING PAVEMENT AND FOR SUPERELEVATION/GRADE CORRECTION AREAS.
5	WATER TO BE USE FOR DUST CONTROL AS DIRECTED BY THE ENGINEER.
6	GRAVEL BASE FOR CONCRETE AND BITUMINOUS STREET APPROACHES AND DRIVEWAYS.
7	ITEM TO BE USED AS BASE FOR NEW CONCRETE WALK AND CURB PATCHES.
8	THIS WORK INCLUDES SPREADING, WATERING, COMPACTING, SHAPING, AND MAINTAINING THE BLENDED RECLAIMED MATERIAL TO THE SPECIFIC PROFILE AND CROSS SECTION.
9	ITEM USED TO HAUL EXCESS RECLAIM FROM TIE-IN POINTS AND REUSED ON SITE. USED FOR PROFILE CORRECTION AREAS. ITEM INCLUDES PLACEMENT, SHAPING, COMPACTION, AND MAINTENANCE OF MATERIAL.
10	ITEMINCLUDES 7 TONS FOR EACH GRAVEL ENTRANCE AND GRAVEL STREET APPROACH.
11	TO BE USED FOR MILLING STREET APPROACHES AND/OR DETAIL MILLING AREAS AS IDENTIFIED IN THE PLAN.
12	ITEM FOR BITUMINOUS DRIVEWAYS. DRIVEWAYS SHALL BE PAVED AFTER MAINLINE AND BEFORE FINAL STRIPING.
13	ITEM INCLUDES BITUMINOUS PATCHING AROUND NEW CURB, STORM STRUCTURE REPAIRS, AND ANY POTHOLES.
14	CONTRACTOR IS RESPONSIBLE FOR CONTACTING PROPERTY OWNER 48 HOURS BEFORE STARTING OPERATION.
15	STREET APPRACHES SHALL BE PAVED AFTER MAINLINE, AND BEFORE FINAL STRIPING
16	ITEM INCLUDES FULL REPLACEMENT OF CASTING ADJUSTMENT RINGS. SEE STORM TABULATIONS FOR RING HEIGHTS. CASTINGS IN ROADWAY SHALL BE INSTALLED BETWEEN BASE AND WEAR LIFT PAVING
17	ITEMINCLUDES GROUTING OF INVERTS, DOGHOUSES, RINGS, STRUCTURES AND CASTINGS AS DIRECTED BY PLAN AND ENGINEER. SEE DRAINAGE TAB, PAGE 3.
18	ITEMUSED TO REPLACE PRECAST CONCRETE STRUCTURE HAT.
19	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.
20	CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN TEMPORARY SIGNAGE WHENEVER EXISTING SIGNAGE IS REMOVED. TEMPORARY SIGNAGE SHALL BE INCIDENTAL TO TRAFFIC CONTROL.
21	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.
22	DO NOT PASS, PASS WITH CARE AND NO CENTER STRIPE SIGNS MUST BE INPLACE DURING MILLING, RECLAIMING OR PAVING OPERATIONS.
23	2 MESSAGE BOARDS, ONE ON THE EACH END OF PROJECT, SHALL BE INSTALLED 10 DAYS PRIOR TO ANY CONSTRUCTION; REFERENCE STRIPING PLAN FOR DETAILS.
24	ALL DRAINAGE STRUCTURES AFFECTED BY THIS PROJECT MUST HAVE INLET PROTECTION.
25	TYPE 3 FERTILIZER AND TYPE 25-121 SEED ARE INCIDENTAL TO THIS ITEM. SEE "BASIS OF PLANNED QUANTITIES" FOR APPLICATION RATES.
26	FINAL STRIPING SHALL BE INSTALLED WITHIN 72 HOURS OF COMPLETION OF MAINLINE WEAR COURSE PAVING. CANNOT BE INSTALLED SOONER THAN 48 HOURS.

THE FOLL	OWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION,
	SHALL APPLY ON THIS PROJECT
	MNDOT STANDARD PLATES
PLATE NO.	DESCRIPTION
3007F	SHEAR REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES
4002F	MANHOLE OR CATCH BASIN (MASONRY, FIELD CONSTRUCTION) - DESIGN C
4006L	MANHOLE OR CATCH BASIN PRECAST - DESIGNS G AND H
4011E	PRECAST CONCRETE BASE
4020J	MANHOLE OR CATCH BASIN (FOR USE WITH OR WITHOUT TRAFFIC LOADS) (2
40203	SHEETS)
4024A	48" DIA. PRECAST SHALLOW DEPTH CATCH BASIN - DESIGN SD
4026B	CONCRETE ENCASED CONCRETE ADJUSTING RINGS
4101D	RING CASTING FOR MANHOLE OR CATCH BASIN
4108F	ADJUSTING RINGS FOR CATCH BASINS AND MANHOLES
4110F	COVER CASTING FOR MANHOLE (FOR USE IN ALL TRAFFIC AREAS) - CASTING NO. 715
4134A	CURB BOX CASTING FOR CATCH BASIN (FOR DESIGN B CURBS)- CASTING NO. 825
4180J	MANHOLE OR CATCH BASIN STEP
7100H	CONCRETE CURB AND GUTTER (DESIGN B AND DESIGN V)
7102K	CONCRETE CURB AND GUTTER (DESIGN D, DESIGN S, AND DESIGN R)
7111J	INSTALLATION OF CATCH BASIN CASTINGS (CONCRETE CURB AND GUTTER)
8000K	TEMPORARY CHANNELIZERS (3 SHEETS)
9350C	MAILBOX SUPPORT - SWING-AWAY TYPE - SHEET 1 OF 3

								THEREBY CERTIFY THAT THE
								OR UNDER MY DIRECT SUP
								LICENSED PROFESSIONAL THE STATE OF MINNESOTA
								PRINT NAME:
								SIGNATURE:
NO	DATE	BY	CKD	APPR	REVISION	12/15/2023	11:45:26 AM	40.00.000
NAME:	P:\24-01-00\CSA	H_05_(VIKI	NG BLVD-	CSAH 24)\E	Base\Proposed\S	SEQ.dgn	•	DATE:12-08-2023

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

PRINT NAME: GERALD J. AUGE JR.

SIGNATURE:

DATE: 12-08-2023 LICENSE NO. 26511

ANOKA COUNTY

ANOKA COUNTY HIGHWAY DEPT. STATEMENT OF ESTIMATED QUANTITIES

STATE AID PROJECT 002-605-020

Sheet 2 of 24 Sheets

	STORM DRAINAGE TAB									
NUMBER	TYPE	ACTION	NEW CASTING TYPE	FURNISH AND INSTALL CASTING ASSEMBLY	RING HEIGHT (INCIDENTAL)	GROUT CATCH BASIN OR MANHOLE	REPAIR CATCH BASIN (REBUILD INVERT AND/OR DOGHOUSE)	NOTES		
				EACH	LIN FT	EACH	EACH			
100	CB	RE-RING	С	1	1.4					
101	СВ	RE-RING	С	1	1.0		1	Clean, repair inv		
102	СВ	RE-RING	С	1	0.8					
102A	СВ	GROUT				1				
103	СВ	GROUT				1	1	Rebuild doghouse		
104	СВ	RECONSTRUCT	С	1	0.6			NEW TO PHAT		
105	СВ	GOOD								
106	СВ	RE-RING	С	1	0.0		1	New doghouse and inv		
107	СВ	GOOD						Beehive		
108	СВ	RE-RING	D	1	0.8					
200	MH	GROUT				1		Clean		
201	MH	RE-RING	A-7D	1	0.4			Clean		
202	MH	RECONSTRUCT	A-7D	1	0.6		1	NEW TOPHAT, rebuild doghouse		
TOTALS			8	5.6	3	4	•			

CASTING ASSEMBLIES SUMMARY								
ASSEMBLY	CASTING CASTING BOX							
A-7D 700-7 715 R				301-CP LID WITH RUBBER GASKET ON	CASTING COVER STAMPED "STORM SEWER" (NEENAH R-1733 WITH LID 301-CP)	2		
С	NEENAH R-3250-DVSP	V	YES	NEENAH R-3250-DVSP		5		
D	D NEENAH V R-3250-DVSP		NO	NEENAH R-3250-DVSP	CURB PLATE NEEDED	1		
			VII CACTIN		ED INITUE FIELD			
		<u>.</u>		IG HEIGHTS TO BE VERIFIE				
	NEW			RS SHOULD BE LABELED . BE INSTALLED ELLISH WIT				
	NEW MANHOLE CASTINGS TO BE INSTALLED FLUSH WITH THE MILLED ASPHALT SURFACE. ALL MANHOLES TO BE WRAPPED WITH INFI- SHIELD. THIS WORK IS INCIDENTAL TO THE CASTING ASSEMBLY.							
					IRING THE PAVING OPERATION.			
				O BE RECESSED 1/4" FRO	· · · · · · · · · · · · · · · · · · ·			
		ADJO2 HIN	G KINGS TO	J DE RECESSED 1/4 FRO	INITOF OF FINIONED INAT			

BITUMINOL	JS STREET SUMMARY	•
	BITUMINOUS	
LOCATION	2360 TYPE SP 12.5 WEAR (4,C)	NOTES
	TON	
NORRIS LAKE RD	76	[1]
211TH AVE	25	[1]
207TH AVE	34	[1]
205TH AVE	30	[1]
201ST AVE	56	[1]
SPARRE RD	24	[1]
199TH AVE	47	[1]
OLD VIKING (EAST)	60	[1]
PRIVATE DR	34	[1]
PROJECT TOTAL	386	

BITUMINOUS SUMMARY NOTES:
[1] QUANTITY ESTIMATED FOR 2 LIFTS

							I HEREBY CERTIFY THAT TO OR UNDER MY DIRECT SU
							LICENSED PROFESSIONAL THE STATE OF MINNESOT.
							PRINT NAME:
							SIGNATURE:
NO DAT	BY	CKD	APPR	REVISION	12/15/2023	11:45:28 AM	
NAME: P:\24-01-00	CSAH 05 (VIK	ING BLVD-	CSAH 24)\E	Base\Proposed\SEQ.	dgn		DATE:12-08-2023

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
PRINT NAME:

GERALD J. AUGE JR.

SIGNATURE:

DATE: 12-08-2023 LICENSE NO. 26511

CHECKED BY <u>CO</u> DATE <u>12/15/2023</u>

ANOKA

ANOKA COUNTY HIGHWAY DEPT.

TABULATIONS

STATE AID PROJECT 002-605-020

Sheet 3 of 24 Sheets

SUPERELEVATION CORRECTION TAB 1									
STATION	POINT	LT SHDR/ RTL	LEFT GRADE	RIGHT GRADE	RT SHDR/ RTL				
95+95	BEG LT TRANS	-2.0%	-2.0%	-2.0%	-2.0%				
96+00		-1.9%	-1.9%	-2.0%	-2.0%				
96+50		-0.8%	-0.8%	-2.0%	-2.0%				
97+00		0.4%	0.4%	-2.0%	-2.0%				
97+50		1.5%	1.5%	-2.0%	-2.0%				
97+60	BEG RT TRANS	1.8%	1.8%	-2.0%	-2.0%				
98+00		2.7%	2.7%	-2.7%	-2.7%				
98+15	BEG LT/RT SUPER & PC	3.0%	3.0%	-3.0%	-3.0%				
98+50		3.0%	3.0%	-3.0%	-3.0%				
99+00		3.0%	3.0%	-3.0%	-3.0%				
99+50		3.0%	3.0%	-3.0%	-3.0%				
100+00		3.0%	3.0%	-3.0%	-3.0%				
100+50		3.0%	3.0%	-3.0%	-3.0%				
100+85	BEG SB RTL TRANS	3.0%	3.0%	-3.0%	-3.0%				
101+00		2.7%	3.0%	-3.0%	-3.0%				
101+50		1.7%	3.0%	-3.0%	-3.0%				
102+00		0.7%	3.0%	-3.0%	-3.0%				
102+50		-0.2%	3.0%	-3.0%	-3.0%				
103+00		-1.2%	3.0%	-3.0%	-3.0%				
103+40	END SB RTL TRANS	-2.0%	3.0%	-3.0%	-3.0%				
103+50		-2.0%	3.0%	-3.0%	-3.0%				
104+00		-2.0%	3.0%	-3.0%	-3.0%				
104+25	END LT/RT SUPER & PT	-2.0%	3.0%	-3.0%	-3.0%				
104+50		-2.0%	2.6%	-2.6%	-2.6%				
105+00		-2.0%	1.9%	-1.9%	-1.9%				
105+50		-2.0%	1.1%	-1.1%	-1.1%				
105+60	BEG SB RTL TRANS	-2.0%	1.0%	-1.0%	-1.0%				
106+00		-2.0%	0.4%	-0.4%	-0.4%				
106+50		-1.0%	-0.3%	0.3%	0.3%				
106+70	MATCH SUPER TRANS	-0.6%	-0.6%	0.6%	0.6%				
107+00		-1.1%	-1.1%	1.1%	1.1%				
107+50		-1.8%	-1.8%	1.8%	1.8%				

	SUPERELEVAT	ION CO	DRRECTIO	N TAB 2	
STATION	POINT	LT SHDR/ RTL	LEFT GRADE	RIGHT GRADE	RT SHDR/ RTL
108+00		-2.6%	-2.6%	2.6%	2.6%
108+30	BEG LT/RT SUPER & PC	-3.0%	-3.0%	3.0%	3.0%
108+50		-3.0%	-3.0%	3.0%	3.0%
109+00		-3.0%	-3.0%	3.0%	3.0%
109+50		-3.0%	-3.0%	3.0%	3.0%
110+00		-3.0%	-3.0%	3.0%	3.0%
110+50		-3.0%	-3.0%	3.0%	3.0%
111+00		-3.0%	-3.0%	3.0%	3.0%
111+50		-3.0%	-3.0%	3.0%	3.0%
112+00		-3.0%	-3.0%	3.0%	3.0%
112+50		-3.0%	-3.0%	3.0%	3.0%
113+00		-3.0%	-3.0%	3.0%	3.0%
113+50		-3.0%	-3.0%	3.0%	3.0%
114+00		-3.0%	-3.0%	3.0%	3.0%
114+50		-3.0%	-3.0%	3.0%	3.0%
115+00		-3.0%	-3.0%	3.0%	3.0%
115+50		-3.0%	-3.0%	3.0%	3.0%
116+00		-3.0%	-3.0%	3.0%	3.0%
116+50		-3.0%	-3.0%	3.0%	3.0%
117+00		-3.0%	-3.0%	3.0%	3.0%
117+50		-3.0%	-3.0%	3.0%	3.0%
118+00		-3.0%	-3.0%	3.0%	3.0%
118+50		-3.0%	-3.0%	3.0%	3.0%
119+00		-3.0%	-3.0%	3.0%	3.0%
119+50		-3.0%	-3.0%	3.0%	3.0%
120+00		-3.0%	-3.0%	3.0%	3.0%
120+50		-3.0%	-3.0%	3.0%	3.0%
120+85	END LT/RT SUPER & PT	-3.0%	-3.0%	3.0%	3.0%
121+00		-2.7%	-2.7%	2.7%	2.7%
121+35	END LT TRANS	-2.0%	-2.0%	2.1%	2.1%
121+50		-2.0%	-2.0%	1.8%	1.8%
122+00		-2.0%	-2.0%	0.9%	0.9%
122+50		-2.0%	-2.0%	0.0%	0.0%
123+00		-2.0%	-2.0%	-0.9%	-0.9%
123+50		-2.0%	-2.0%	-1.8%	-1.8%
123+60	END RT TRANS	-2.0%	-2.0%	-2.0%	-2.0%
124+00	-	-2.0%	-2.0%	-2.0%	-2.0%
124+50		-2.0%	-2.0%	-2.0%	-2.0%
125+00		-2.0%	-2.0%	-2.0%	-2.0%

	SUPERELEVATION CORRECTION TAB 3									
STATION	POINT	LT SHDR/ RTL	LEFT GRADE	RIGHT GRADE	RT SHDR/ RTL					
127+05	BEG LT TRANS	-2.0%	-2.0%	-2.0%	-2.0%					
127+50		-1.1%	-1.1%	-2.0%	-2.0%					
128+00		-0.1%	-0.1%	-2.0%	-2.0%					
128+50		0.8%	0.8%	-2.0%	-2.0%					
129+00	BEG RT TRANS	1.8%	1.8%	-2.0%	-2.0%					
129+50		2.8%	2.8%	-2.8%	-2.8%					
129+60	BEG LT/RT SUPER & PC	3.0%	3.0%	-3.0%	-3.0%					
130+00		3.0%	3.0%	-3.0%	-3.0%					
130+50		3.0%	3.0%	-3.0%	-3.0%					
131+00		3.0%	3.0%	-3.0%	-3.0%					
131+50		3.0%	3.0%	-3.0%	-3.0%					
132+00		3.0%	3.0%	-3.0%	-3.0%					
132+50		3.0%	3.0%	-3.0%	-3.0%					
133+00		3.0%	3.0%	-3.0%	-3.0%					
133+50		3.0%	3.0%	-3.0%	-3.0%					
134+00		3.0%	3.0%	-3.0%	-3.0%					
134+10	END LT/RT SUPER & PT	3.0%	3.0%	-3.0%	-3.0%					
134+50		2.3%	2.3%	-2.3%	-2.3%					
134+65	END RT TRANS	2.0%	2.0%	-2.0%	-2.0%					
135+00		1.3%	1.3%	-2.0%	-2.0%					
135+50		0.3%	0.3%	-2.0%	-2.0%					
136+00		-0.6%	-0.6%	-2.0%	-2.0%					
136+50		-1.7%	-1.7%	-2.0%	-2.0%					
136+65	END LT TRANS	-2.0%	-2.0%	-2.0%	-2.0%					
137+00		-2.0%	-2.0%	-2.0%	-2.0%					

								I HEREBY CERTIFY THAT TH OR UNDER MY DIRECT SUP LICENSED PROFESSIONAL I
								THE STATE OF MINNESOTA.
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								TIGHT IVANE.
								SIGNATURE:
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NAME: I	P:\24-01-00\CSA	H_05_(VIKI	NG BLVD-	CSAH 24)\E	Base\Proposed\SEQ.	dgn		DATE:12-08-2023

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



ANOKA COUNTY HIGHWAY DEPT. SUPER ELEVATIONS TAB

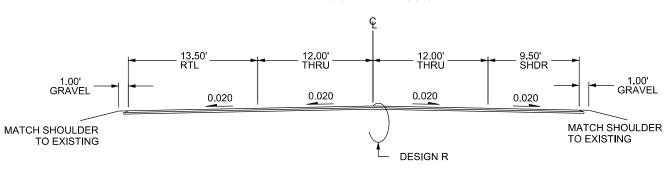
STATE AID PROJECT 002-605-020

Sheet 4 of 24 Sheets

NOWTHEN BLVD NW (CSAH 5)

EXISTING/PROPOSED SECTION

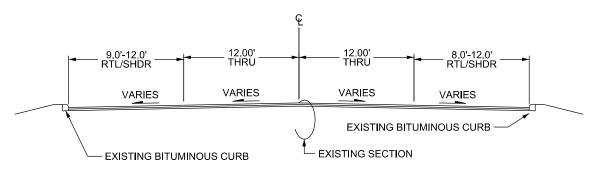
11+93.44 - 12+60.02



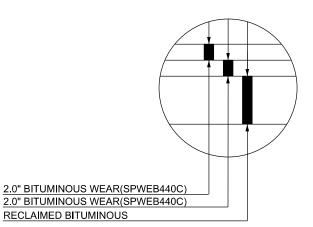
NOWTHEN BLVD NW (CSAH 5)

EXISTING SECTION

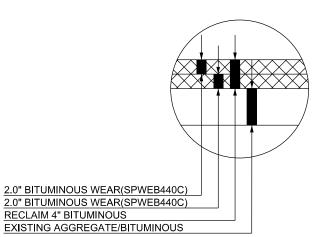
12+60.02 - 20+49.77



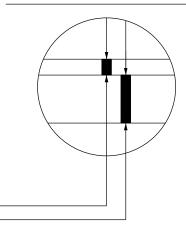
DESIGN S RECLAIM SECTION



DESIGN R RECLAIM SECTION IN CURB



EXISTING SECTION



4.5" EXISTING BITUMINOUS **EXISTING AGGREGATE BASE**

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								С		
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								Р		
NO	DATE	BY	CKD	APPR	REVISION	12/15/2023	11:45:31 AM	S		
	NAME: P:\24-01-00\CSAH 05 (VIKING BLVD-CSAH 24)\Base\Proposed\TYPICALS.dgn									
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RECLAIMED BITUMINOUS

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. LICENSE NO. __26511

CHECKED BY _____CO___ DATE _12/15/202



ANOKA COUNTY HIGHWAY DEPT.

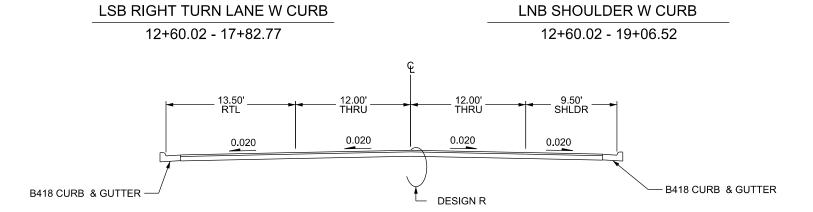
TYPICAL SECTIONS

STATE AID PROJECT 002-605-020

Sheet <u>5</u> of <u>24</u> Sheets

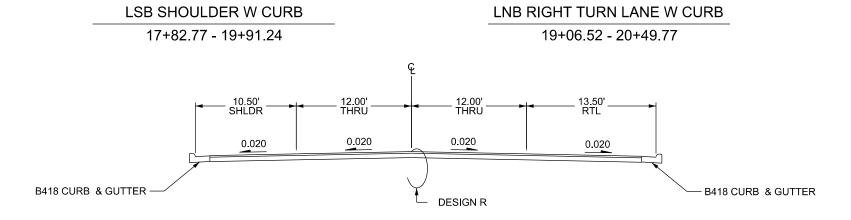
NOWTHEN BLVD NW (CSAH 5)

PROPOSED SECTION



NOWTHEN BLVD NW (CSAH 5)

PROPOSED SECTION



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NO	DATE	BY	CKD	APPR	REVISION	12/15/2023	11:45:31 AM	S		
NAME:	NAME: P:\24-01-00\CSAH_05_(VIKING BLVD-CSAH 24)\Base\Proposed\TYPICALS.dgn									

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

PRINT NAME: GERALD J. AUGE JR.

SIGNATURE:

DATE: 12-08-2023 LICENSE NO. 26511



ANOKA COUNTY HIGHWAY DEPT.

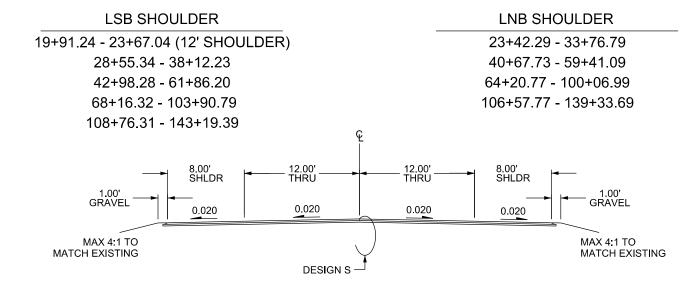
TYPICAL SECTIONS

STATE AID PROJECT 002-605-020

Sheet 6 of 24 Sheets

NOWTHEN BLVD NW (CSAH 5)

EXISTING/PROPOSED SECTION



NOWTHEN BLVD NW (CSAH 5)

EXISTING/PROPOSED SECTION

LSB BYPASS/RIGHT TURN LANE

23+67.04 - 28+55.34 (RTL)

38+12.23 - 42+98.28 (RTL)

61+86.20 - 68+16.32 (BYPASS)

103+90.79 - 108+76.31 (RTL)

143+19.39 - 143+78.29 (RTL)

LNB BYPASS/RIGHT TURN LANE

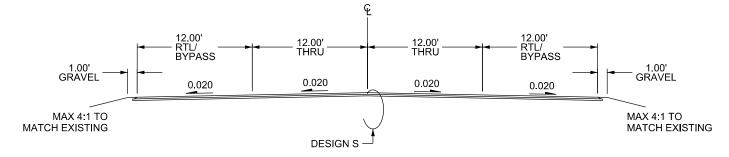
20+49.77 - 23+42.29 (RTL)

33+76.79 - 40+67.73 (BYPASS)

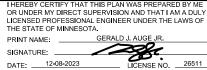
59+41.09 - 64+20.77 (RTL)

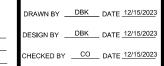
100+06.99 - 106+57.77 (BYPASS)

139+33.69 - 144+04.98 (BYPASS)



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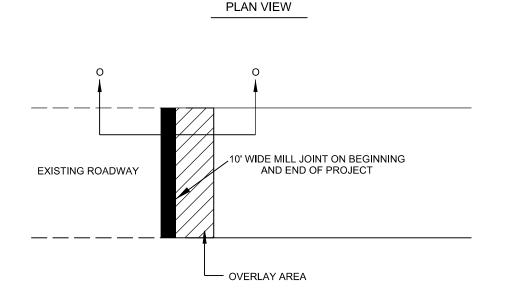
ANOKA COUNTY HIGHWAY DEPT.

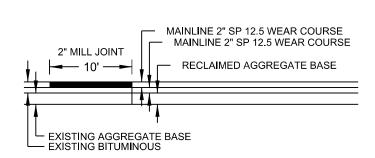
TYPICAL SECTIONS

STATE AID PROJECT 002-605-020

Sheet 7 of 24 Sheets

MAINLINE JOINT DETAIL (RECLAIM)



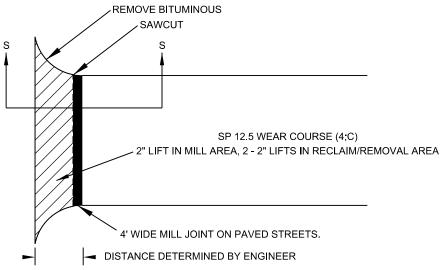


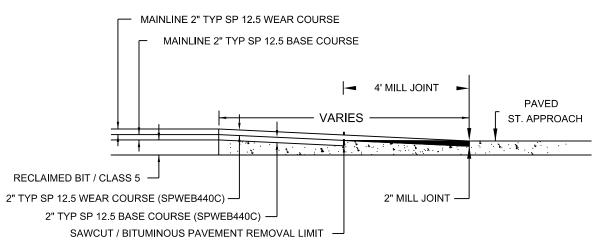
SECTION O - O

STREET APPROACH DETAIL (RECLAIM)

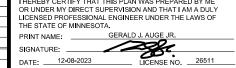
BITUMINOUS STREET

PLAN VIEW SECTION S - S





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								LICENSE THE STA		
								PRINT N		
NO	DATE	BY	CKD	APPR	REVISION	12/15/2023	11:45:32 AM	SIGNATU DATE: _		
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ANOKA COUNTY
HIGHWAY DEPT.

STATE AID PROJECT 002-605-020 St

DETAILS

Sheet 8 of 24 Sheets

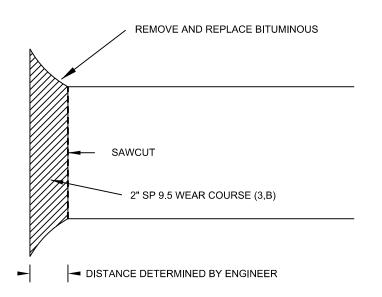
RECLAIM AREA - DRIVEWAY DETAIL

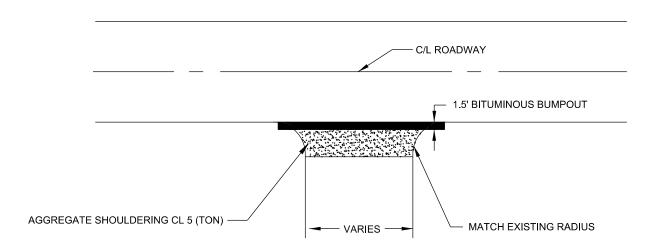
BITUMINOUS

DRIVEWAY DETAIL

GRAVEL / FIELD ENTRANCE

PLAN VIEW





SHOULDER DETAIL

BITUMINOUS SAFETY EDGE GRAVEL SHOULDER

EDGE OF PAVEMENT

SAFETY EDGE

MATCH PROPOSED SHOULDER

TO EXISTING SHOULDER

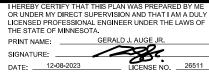
BITUMINOUS PAVEMENT

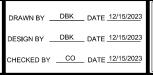
AGGREGATE SHOULDER

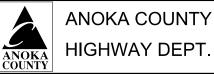
SAFETY EDGE TO BE USED IN ALL NON-CURB AREAS ON SHOULDER.

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

NO	DATE	BY	CKD	APPR	REVISION	12/15/2023	11:45:32 AM
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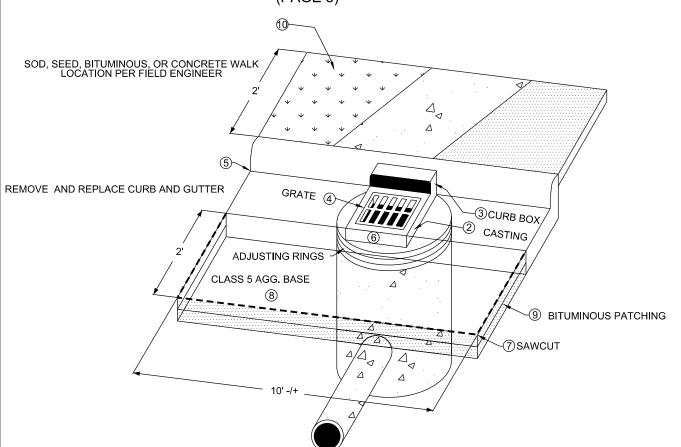
DETAILS

STATE AID PROJECT 002-605-020

Sheet 9 of 24 Sheets

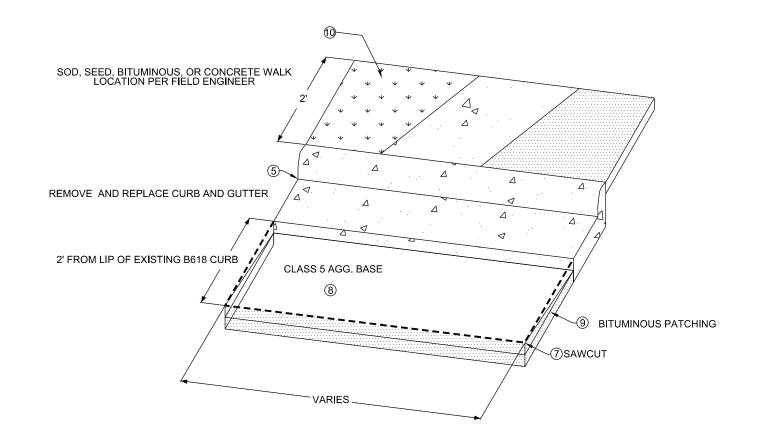
CATCH BASIN DETAIL

SEE STRUCTURE TAB FOR LOCATION (PAGE 3)



NEW CURB DETAIL

SEE PLAN FOR LOCATION



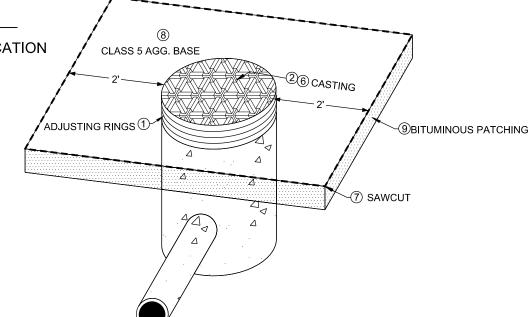
NOTES

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
- (§) 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.
- (I) 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)



NO	DATE	BY	CKD	APPR	REVISION	12/15/2023	11:45:32 AM			
NAME:	NAME: P:\24-01-00\CSAH_05_(VIKING BLVD-CSAH 24)\Base\Proposed\DETAIL.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:

SIGNATURE:

DATE: 12-08-2023 LICENSE NO. 26511

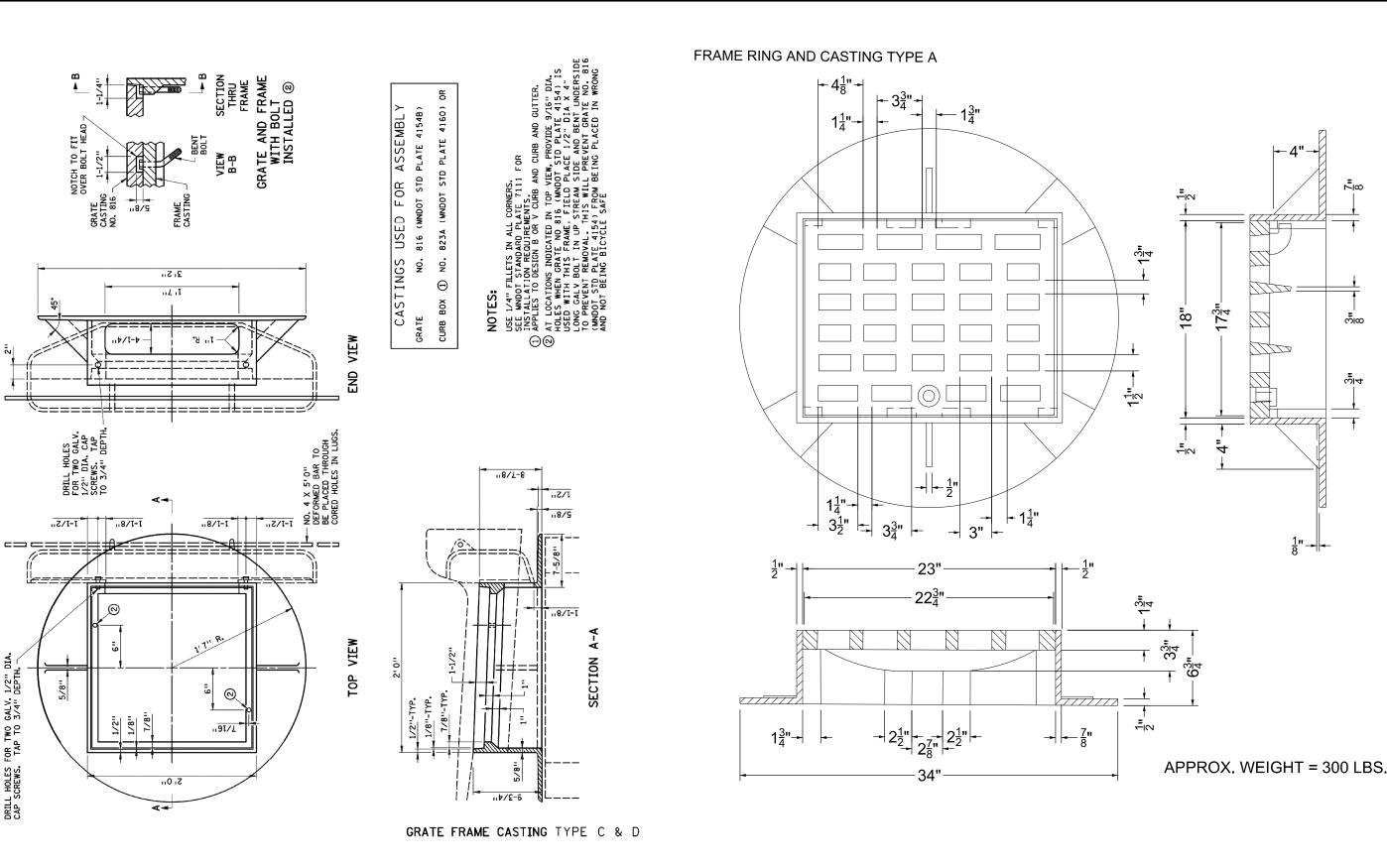


ANOKA COUNTY HIGHWAY DEPT.

DETAILS

STATE AID PROJECT<u>002-605-020</u>

0 Sheet <u>10</u> of <u>24</u> Sheets



DATE BY CKD APPR REVISION 12/15/2023 11:45:32 AM NAME: P:\24-01-00\CSAH_05_(VIKING BLVD-CSAH 24)\Base\Proposed\DETAIL.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 LICENSE NO. 26511 DATE: ____12-08-2023

CHECKED BY _____CO___ DATE _12/15/202



ANOKA COUNTY HIGHWAY DEPT.

DETAILS

STATE AID PROJECT 002-605-020

Sheet 11 of 24 Sheets

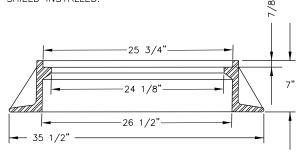
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STANDARD MANHOLE CASTING

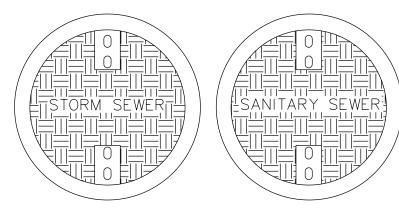
CASTING - NEENAH FOUNDRY NO. R-1733 SERIES MANHOLE FRAME OR APPROVED EQUAL. CASTING & RINGS TO HAVE INFI-SHIELD INSTALLED.



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.

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ı	11:45:34 AM	12/15/2023	REVISION	APPR	CKD	BY	DATE	NO
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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.

THE STATE OF MINNESOTA.
PRINT NAME: GERALD J. AUGE JR.
SIGNATURE:
DATE: 12-08-2023 LICENSE NO. 26511

 DRAWN BY
 DBK
 DATE 12/15/2023

 DESIGN BY
 DBK
 DATE 12/15/2023

 CHECKED BY
 CO
 DATE 12/15/2023

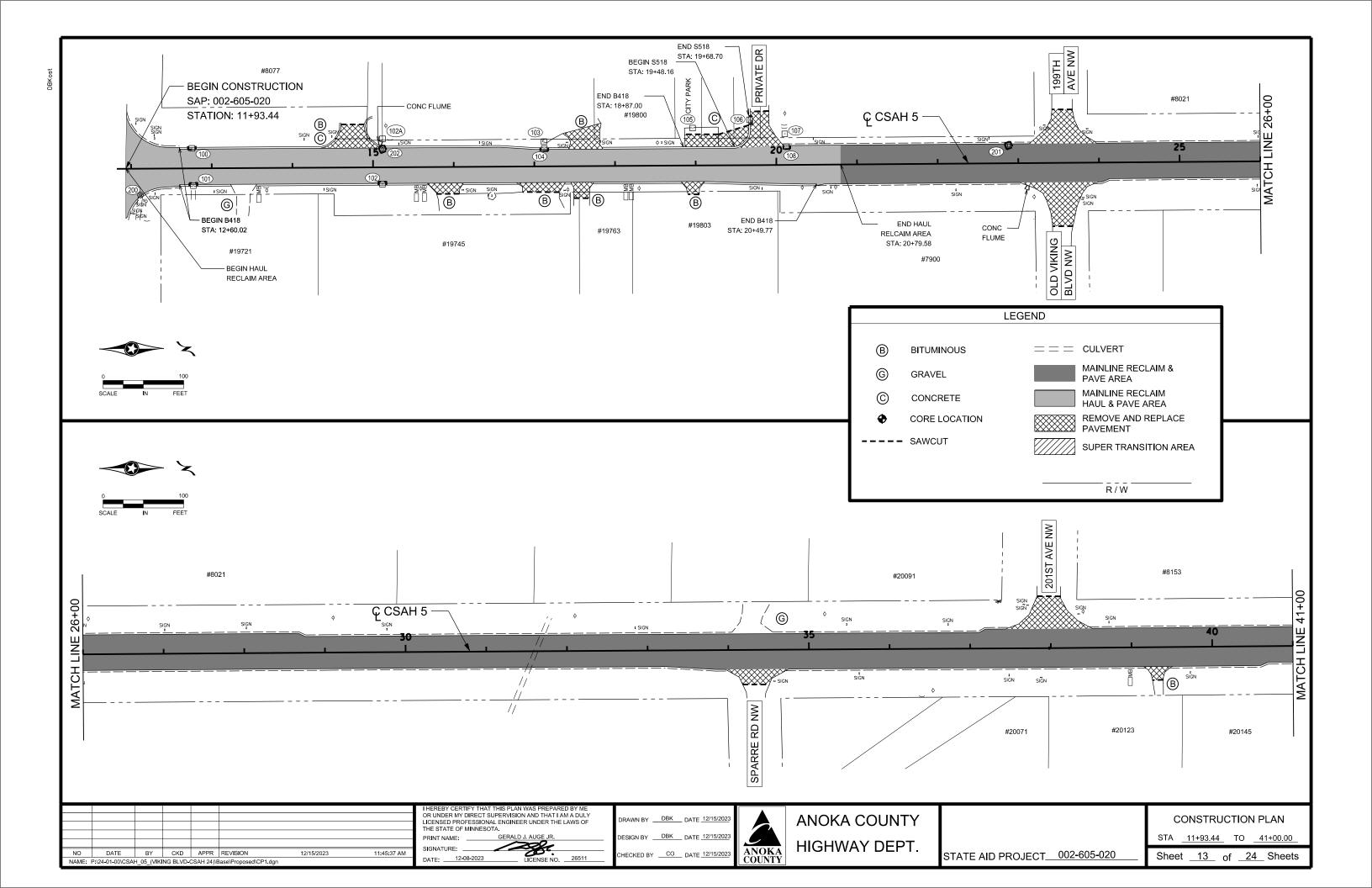


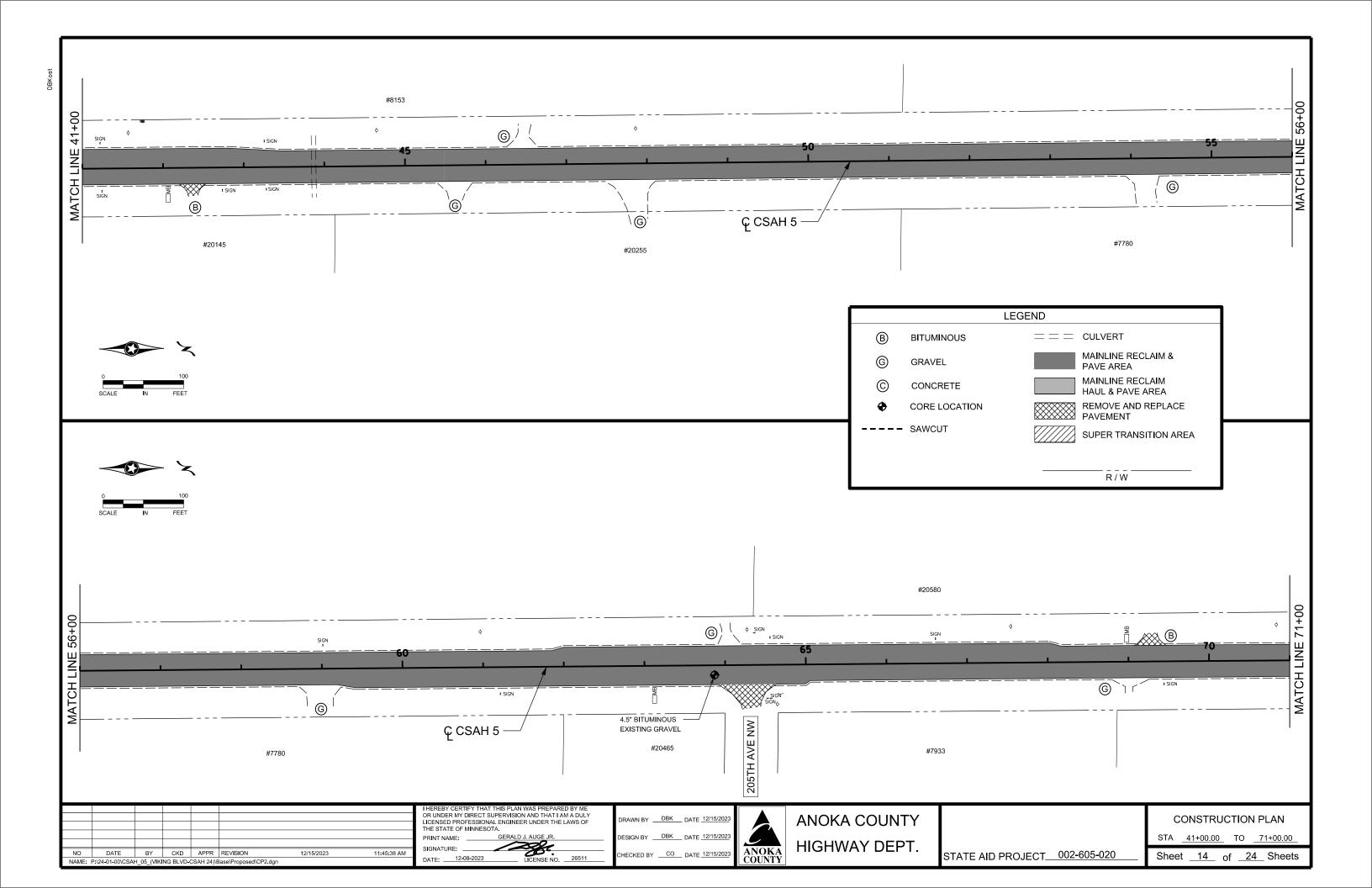
ANOKA COUNTY HIGHWAY DEPT.

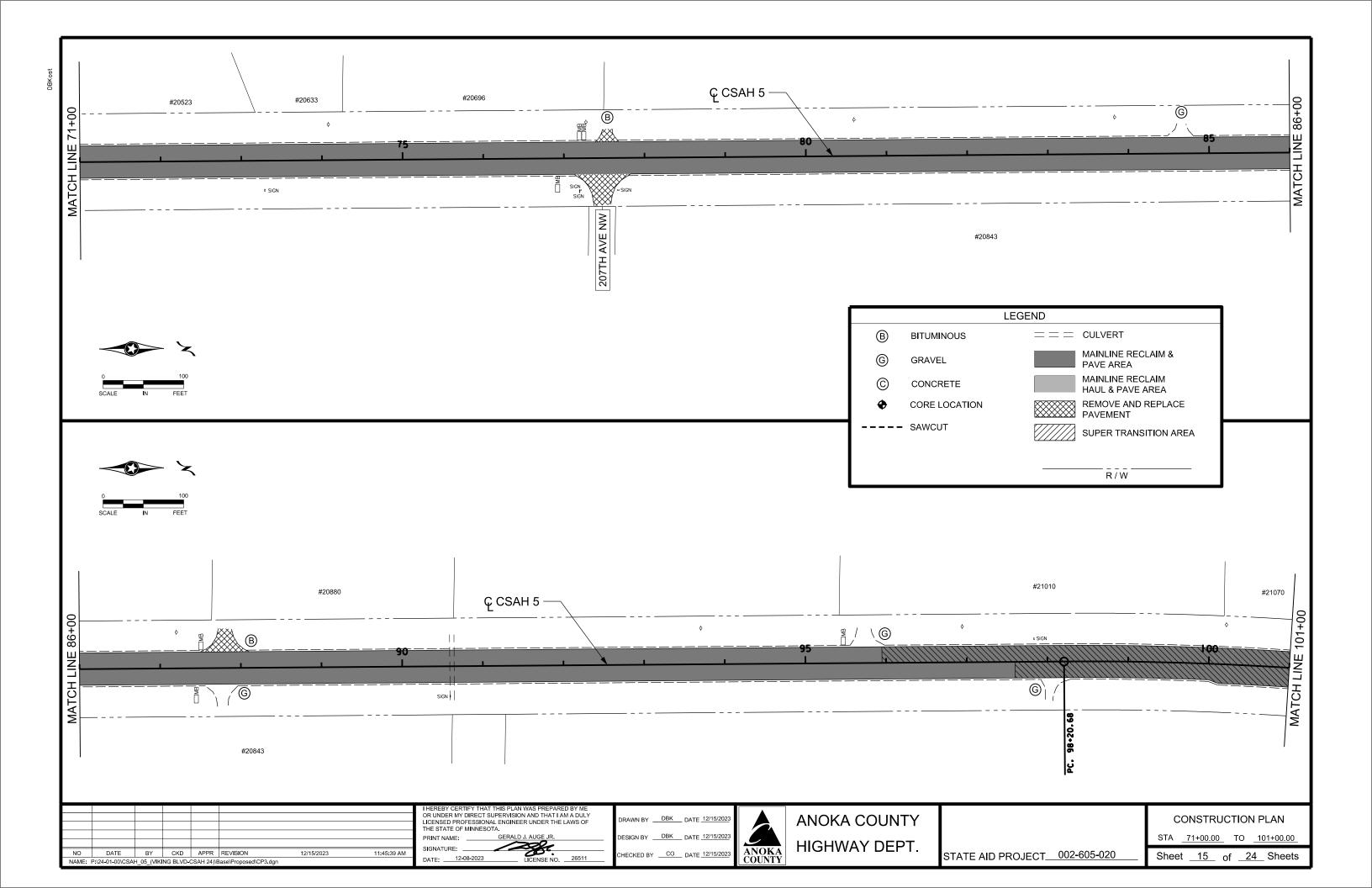
DETAILS

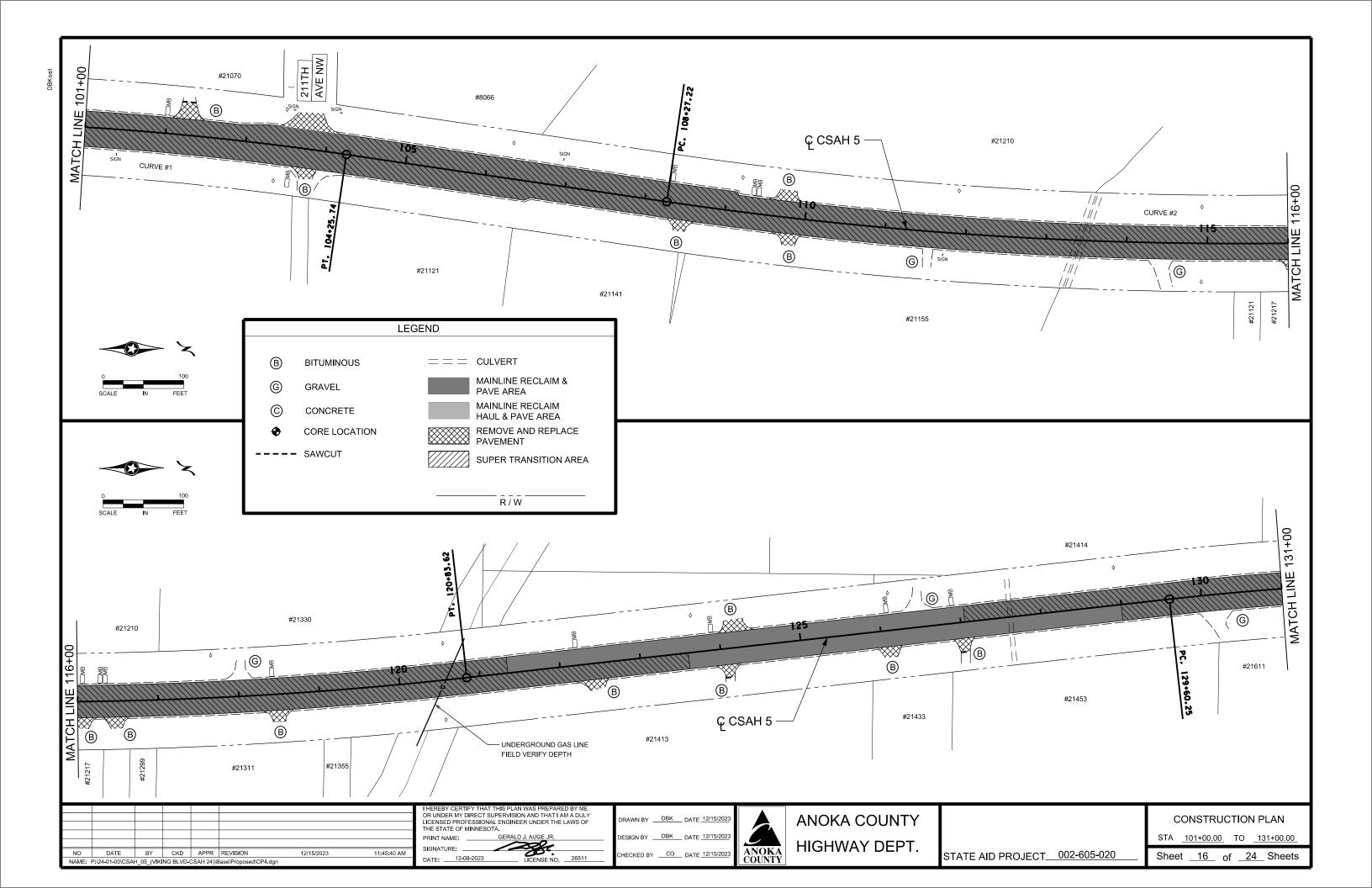
STATE AID PROJECT<u>002-605-020</u>

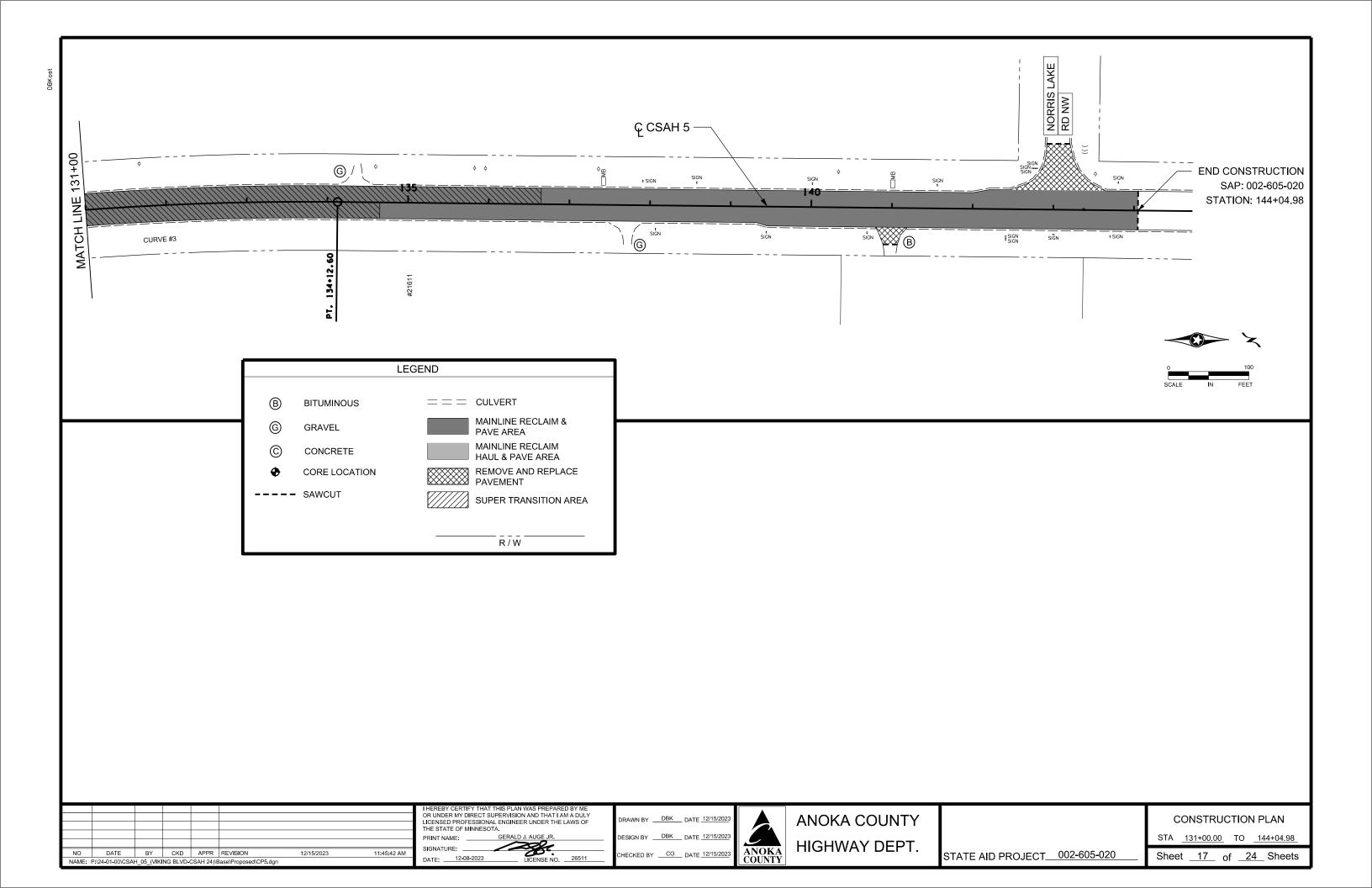
Sheet <u>12</u> of <u>24</u> Sheets











PERMANENT PAVEMENT MARKING PLAN **NOTES & 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.
- AT DIE PARTICULATION TO LEDANCES SHALL NOT BELLEVIE THE CONTROL GUIDE SHALL NOT EXCEPTION. APPLICATION TOLERANCES SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COMPLY AS CLOSELY AS PRACTICABLE WITH THE PLANNED DIMENSIONS.
- PERMANENT PAVEMENT MARKINGS SHALL NOT BE PLACED OVER TEMPORARY TAPE MARKINGS.
- 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.

PREFORMED PAVEMENT MARKING TAPE

- CONTRACTOR SHALL USE PRODUCTS LISTED ON MNDOT'S APPROVED PRODUCTS LIST.
- INSTALLATION SHALL BE PER THE MANUFACTURER'S INSTRUCTIONS.

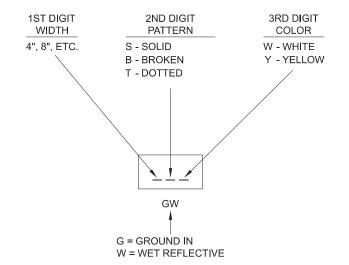
PERMANENT STRIPING

PERMANENT PAVEMENT MARKING TABULATION									
ITEM DESCRIPITION	UNIT	TOTAL C	YTITMAUÇ						
HEW DESCRIPTION	ONIT	WHITE	YELLOW						
4" SOLID LINE PREFORM TAPE, GROUND IN, WET REFLECTIVE	LIN FT	28167	2379						
4" SOLID DOUBLE LINE PREFORM TAPE, GROUND IN, WET REFLECTIVE	LIN FT		3715						
4" BROKEN LINE PREFORM TAPE, GROUND IN, WET REFLECTIVE	LIN FT		1859						
8" DOTTED LINE PREFORM TAPE, GROUND IN, WET REFLECTIVE	LIN FT	144							

PAVEMENT MARKING SYMBOLS & MATERIALS LEGEND

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

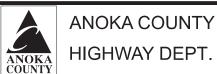
- - - - DOTTED LINE - 168' CYCLE (3' LINE, 12' GAP)



EXAMPLE: 4SW = 4" SOLID LINE WHITE PREFORM TAPE GROUND IN, WET REFLECTIVE GW



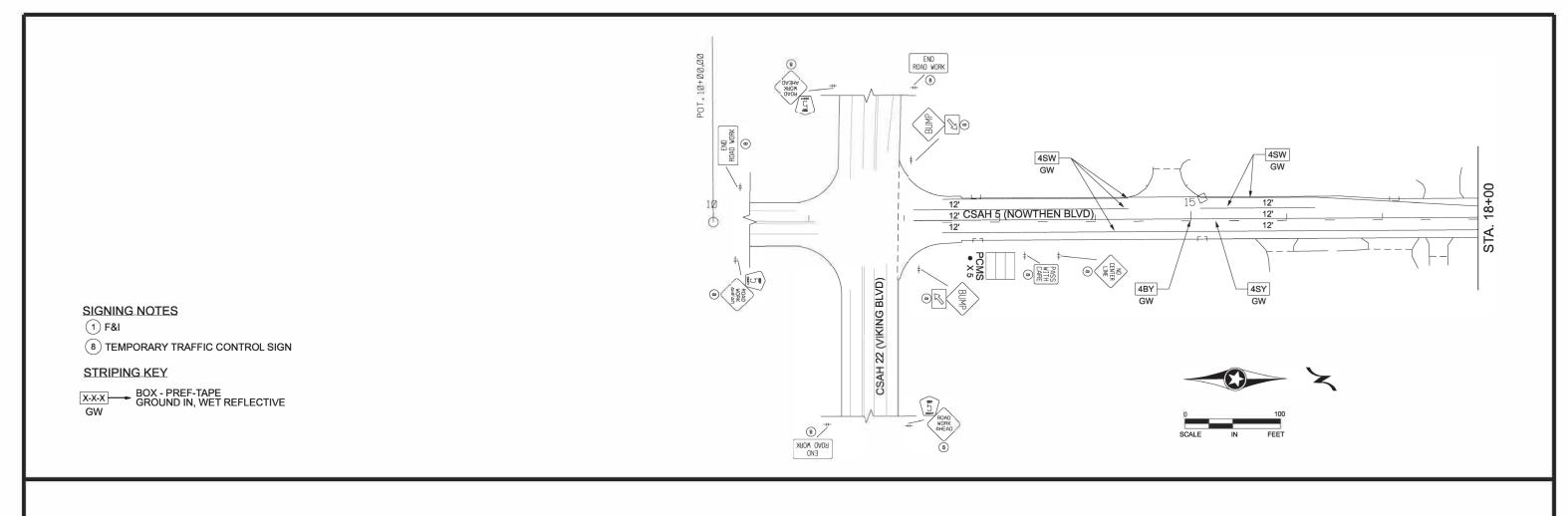


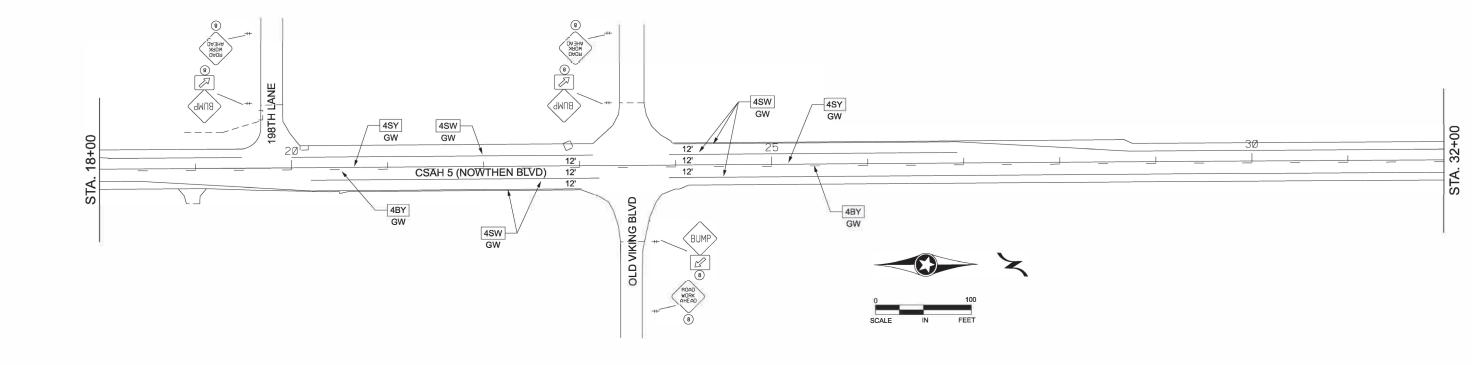


SAP 002-605-020

PERMANENT PAVEMENT MARKING NOTES AND **TABULATIONS**

Sheet 18 of 24 Sheets





SAP 002-605-020

TEMPORARY SIGNING AND PERMANENT STRIPING

Sheet 19 of 24 Sheets

ANOKA COUNTY

HIGHWAY DEPT.

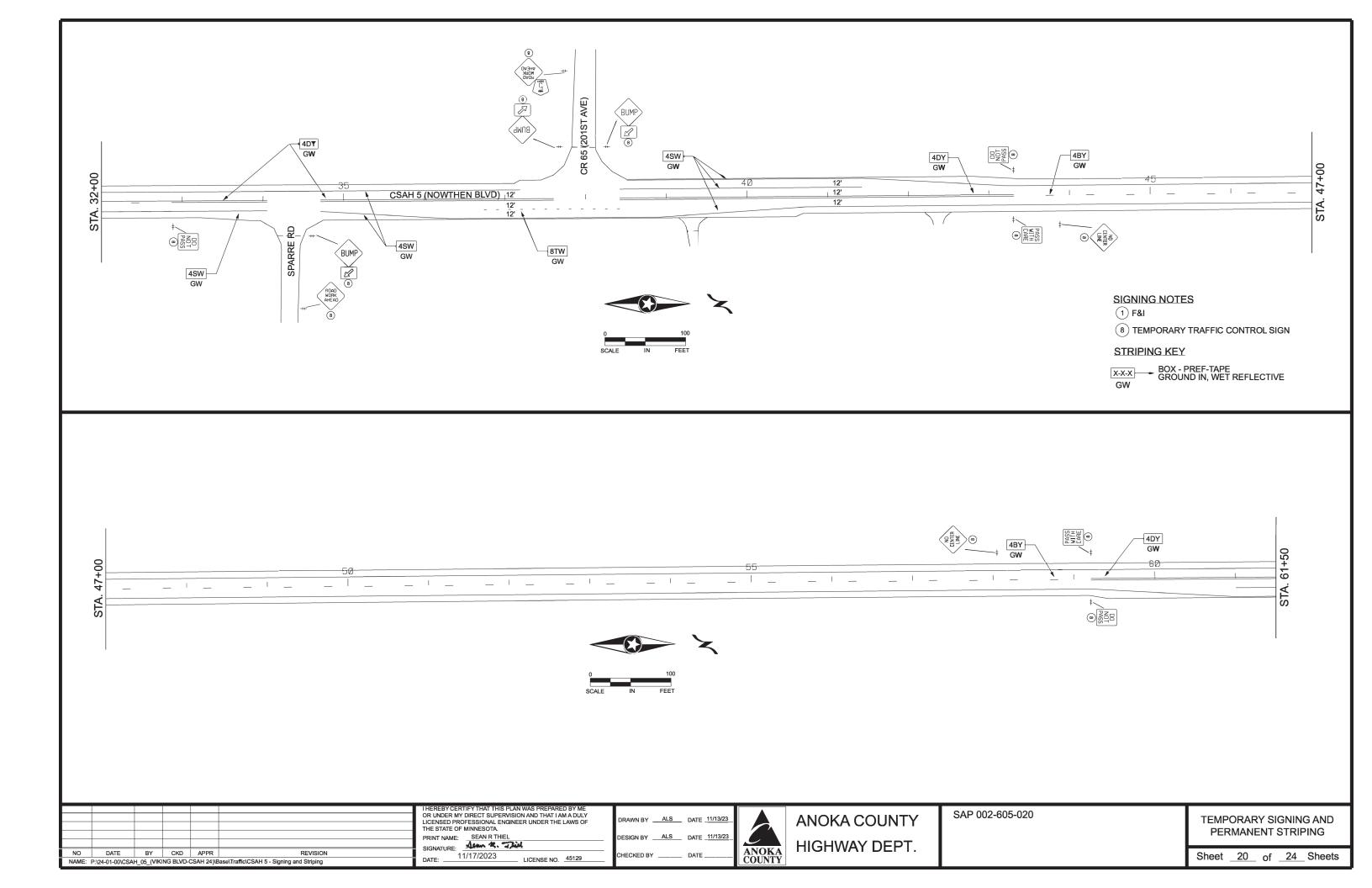
ANOKA COUNTY

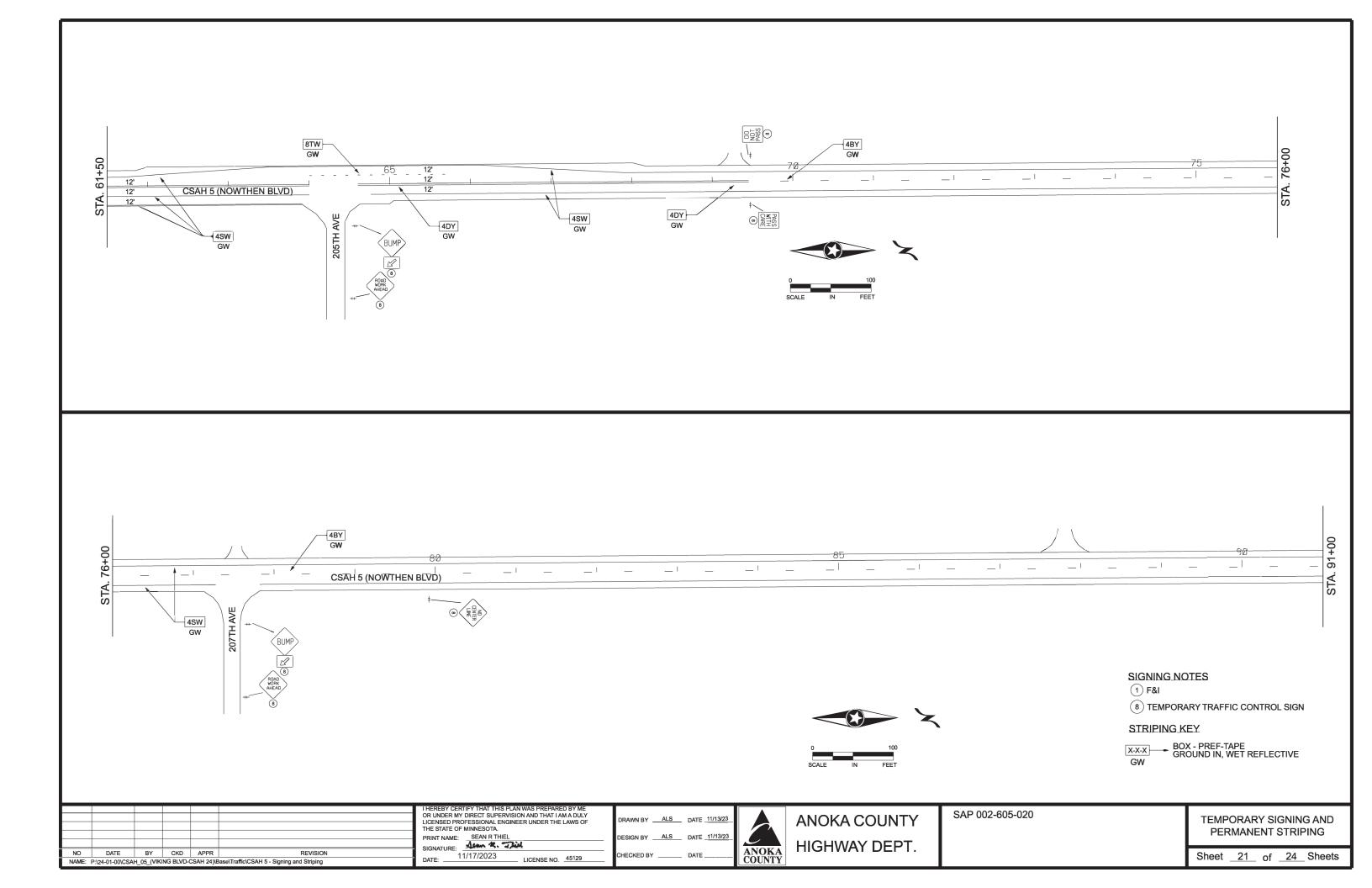
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

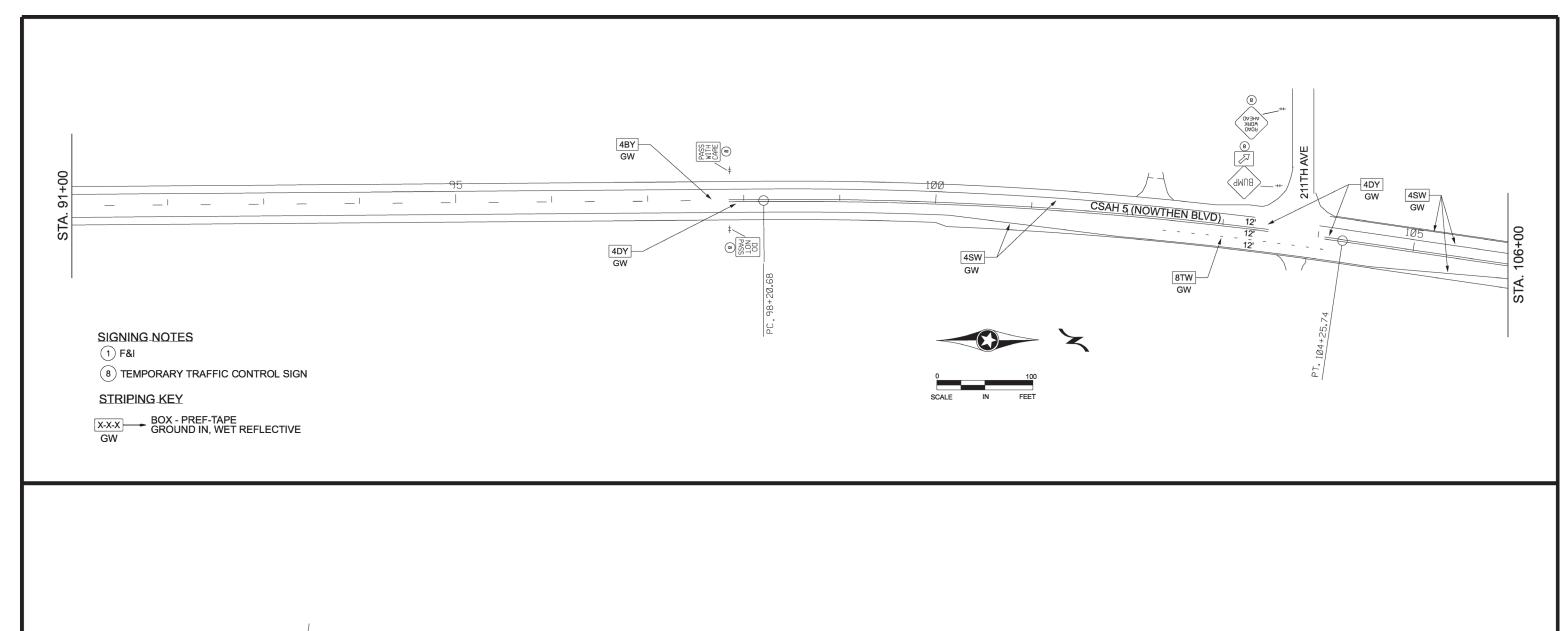
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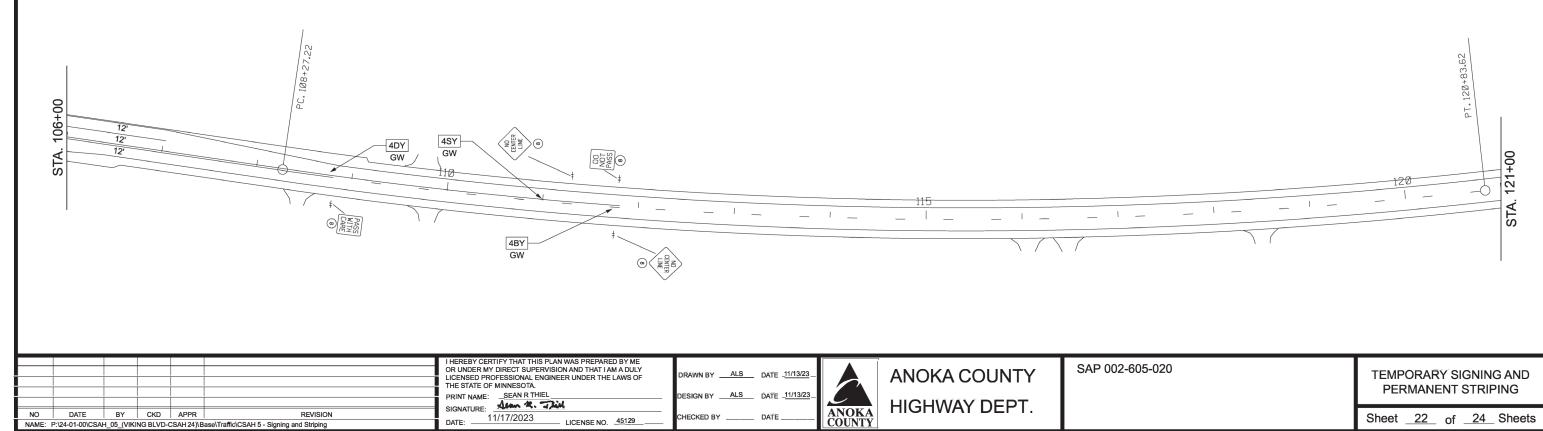
SIGNATURE: 11/17/2023 LICENSE NO. 45129

NO DATE BY CKD APPR REVISION
NAME: P:\24-01-00\CSAH_05_(VIKING BLVD-CSAH 24)\Base\Traffic\CSAH 5 - Signing and Striping









DATE

BY CKD APPR

NAME: P:\24-01-00\CSAH_05_(VIKING BLVD-CSAH 24)\Base\Traffic\CSAH 5 - Signing and Striping

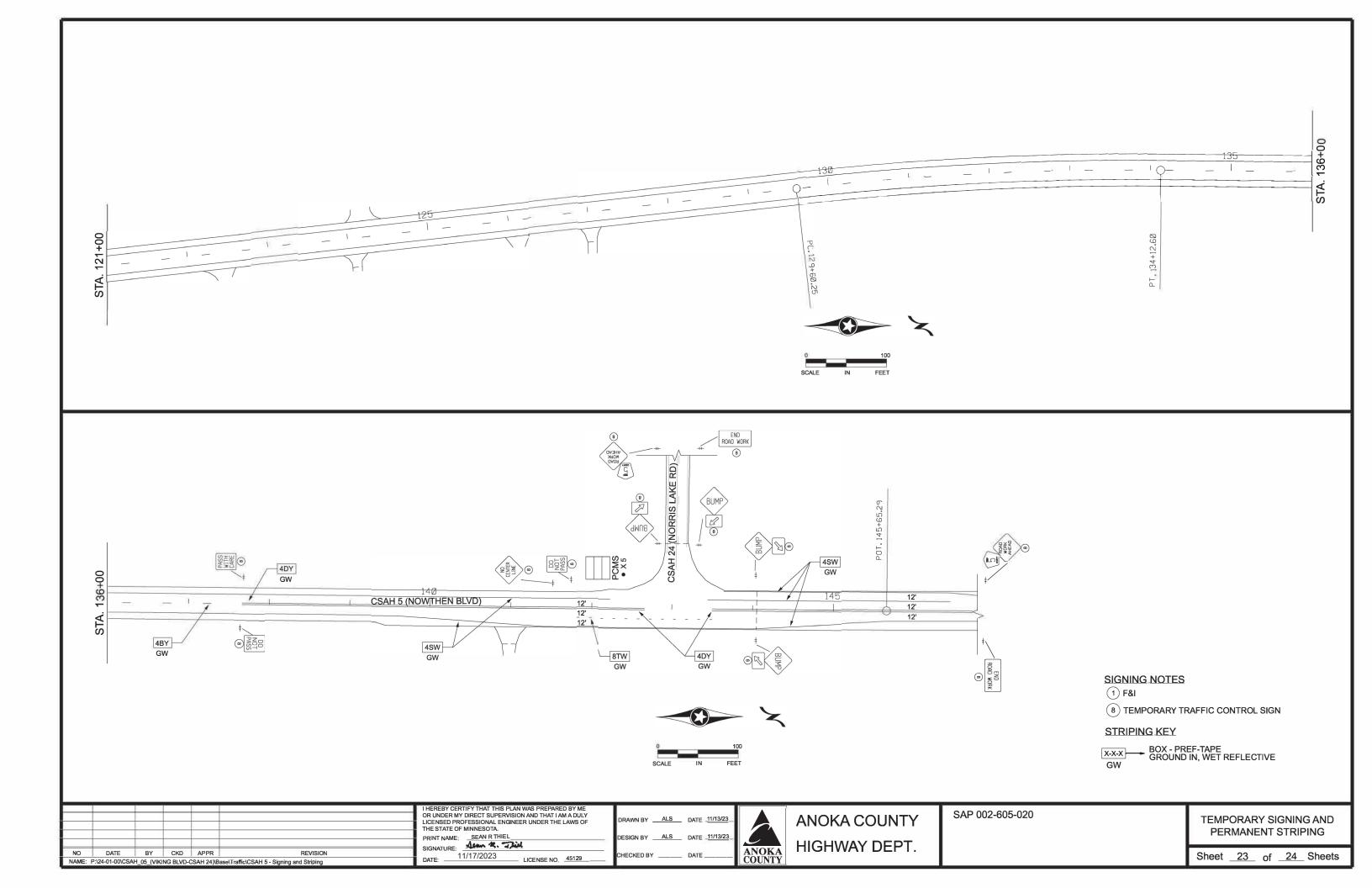
SAP 002-605-020

TEMPORARY SIGNING AND PERMANENT STRIPING

Sheet 22 of 24 Sheets

ANOKA COUNTY

HIGHWAY DEPT.



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"	15						
K	W16-7PL	BLACK ON ORANGE	30" X 18"	15						
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"	7						
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" SER	ES	
SIGN	MUTCD CODE	COLOR	SIZE	QUANTITY
DO NOT PASS	R4-1	BLACK ON WHITE	24" X 30"	8
PASS WITH CARE	R4-2	BLACK ON WHITE	24" X 30"	7

		"M" SERIES	<i>a</i>	
SIGN	MUTCD CODE	COLOR	SIZE	QUANTITY
ASORA 5	M1-6M	WHITE AND YELLOW ON BLUE	24 X 24	6

		"G" SER	ES	5
SIGN	MUTCD CODE	COLOR	SIZE	QUANTITY
END ROAD WORK	G20-2	BLACK ON ORANGE	48" X 24"	5

	DEVICE	S
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	ı	N	s	

<	D	Α	Т	Е	>
E	Х	Р	Е	С	Т
D	Е	L	Α	Υ	s

NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."
- 2. ALL TYPE III BARRICADES SHALL BE REFLECTORIZED ON BOTH SIDES. BARRICADE MARKINGS SHALL BE SLANTED IN ACCORDANCE WITH THE MN MUTCD.
- 3. CONTRACTOR SHALL COMPLY WITH THE LONGITUDINAL DROP-OFF GUIDELINES AS PER THE FIELD MANUAL.
- 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.
- 7. 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)

NO DATE BY CKD APPR REVISION

NAME: P:\(24-01-00\)\(CSAH \) 05_ (VIKING BLVD-CSAH 24\)\(Base\)\(Traffic\)\(CSAH 5 - Signing and Striping

THEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME
OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF
THE STATE OF MINNESOTA.

PRINT NAME: SEAN R. THIEL

SIGNATURE: 444 A TAM

DATE: 11/17/2023 LICENSE NO. 45129

 DRAWN BY
 ALS
 DATE
 11/13/23

 DESIGN BY
 ALS
 DATE
 11/13/23

 CHECKED BY
 DATE



ANOKA COUNTY HIGHWAY DEPT. SAP 002-605-020

TEMPORARY SIGNING NOTES
AND TABULATIONS

Sheet 24 of 24 Sheets