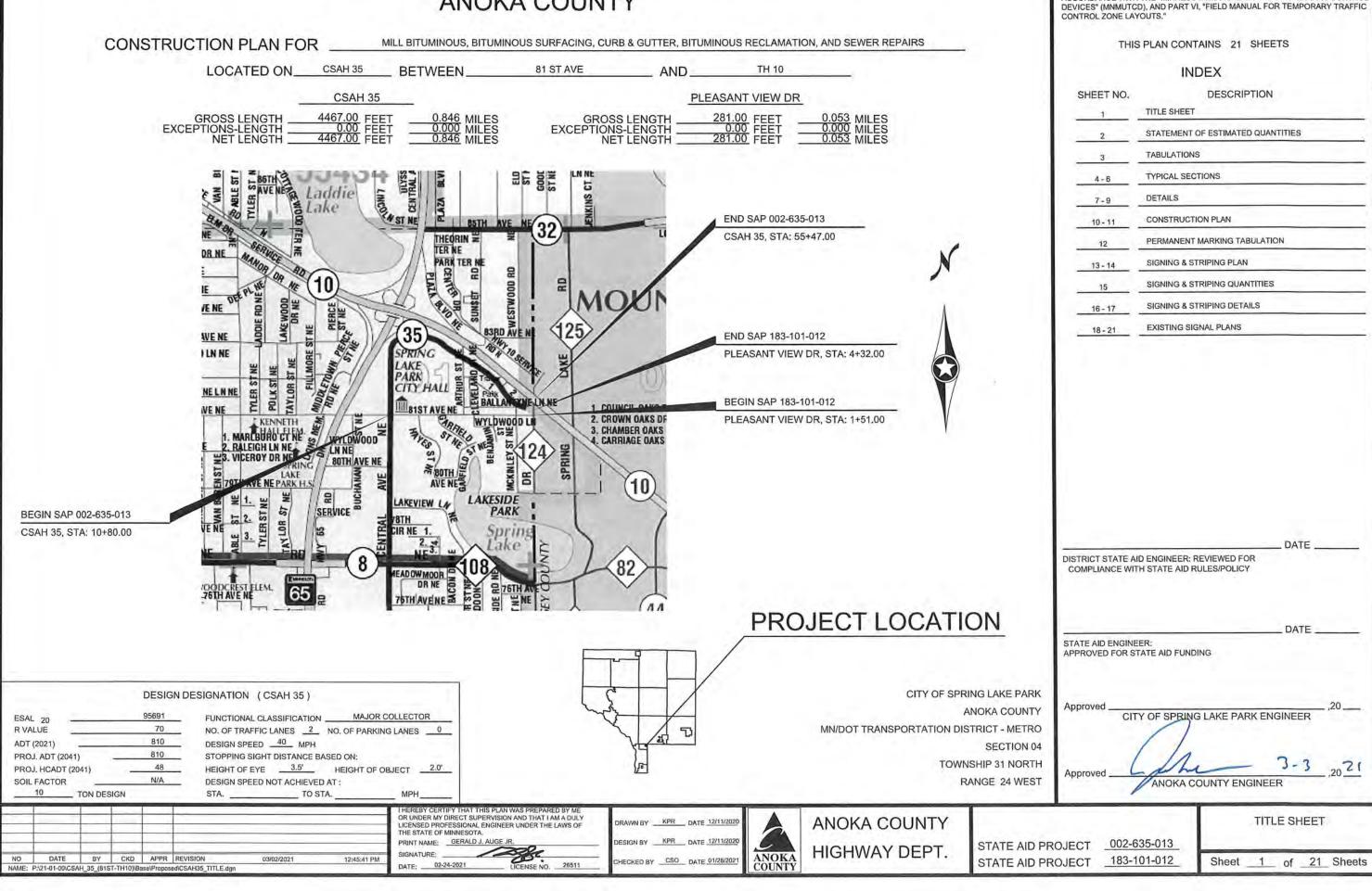
MINNESOTA DEPARTMENT OF TRANSPORTATION ANOKA COUNTY



GOVERNING SPECIFICATIONS

THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN, ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE INSTALLED IN

ACCORDANCE WITH THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL

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2104 504 REMOVE BITUMINOUS PAZEMENT	2						
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4 2123 510 MOTOR GRADER	2						125
2130.523 WATER							123
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21 2582.603 PAVEMENT MARKING SPECIAL LIN FT 122 122				-			

	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	HYDRAULIC REINFORCED FIBER MATRIX	3900 LBS./ ACRE							
2575	SEED MIXTURE 25-121	61 LBS./ ACRE							
2574	FERTILIZER TYPE 3	350 LBS./ ACRE							

TEM FOR BITUMINOUS DRIVEWAYS AND STREET APPROACHES. CONTRACTOR IS RESPONSIBILE FOR CONTACTING PROPERTY OWNER 48 HOURS BEFORE STARTING OPERATION. TIEM USED TO REMOVE EXCESS RECLAIM MATERIAL. TIEM USED TO MOVE EXCESS RECLAIM MATERIAL. TO GRAVEL BASE FOR BITUMINOUS DRIVEWAYS, AND CURB PATCHES. MATERIAL SHALL BE HAULED AND USED FOR PROFILE CORRECTION AREAS. ITEM INCLUDES PLACEMENT, SHAPING, COMPACTION, AND MAINTENANCE OF MATERIAL. TO BE USED FOR MILLING STREET APPROACHES AND/OR DETAIL MILLING AREAS AS IDENTIFIED IN THE PLAN DETAIL MILLING ARCOUND MANNICHANCE OF MATERIAL. TIEM FOR BITUMINOUS DRIVEWAYS. DRIVEWAYS SHALL BE PAVED AFTER MAINLINE AND BEFORE FINAL STRIPING. TIEM INCLUDES BITUMINOUS PATCHING AROUND NEW CURB, STORM STRUCTURE REPAIRS, AND ANY POTHOLES INTERMINED AND STRIPING. TIEM FOR STREET APPROACHES. STREET APPROACHES SHALL BE PAVED AFTER MAINLINE, AND BEFORE FINAL STRIPING. STRIPING. TIEM FOR STREET APPROACHES. STREET APPROACHES SHALL BE PAVED AFTER MAINLINE, AND BEFORE FINAL STRIPING. STRIPING. TIEM FOR STREET APPROACHES. STREET APPROACHES SHALL BE PAVED AFTER MAINLINE, AND BEFORE FINAL STRIPING. TIEM INCLUDES BUT LIE PLAYER APPROACHES SHALL BE PAVED AFTER MAINLINE, AND BEFORE FINAL STRIPING. TIEM INCLUDES BUT LIE PLAYER APPROACHES SHALL BE PAVED AFTER MAINLINE, AND BEFORE FINAL STRIPING. TIEM FOR STREET APPROACHES. STREET APPROACHES SHALL BE PAVED AFTER MAINLINE, AND BEFORE FINAL STRIPING. TIEM INCLUDES GROUND FROM THE PLAYER BEFORE THE EXAMINED BY THE ENGINEER. TIEM INCLUDES GROUND AND SHALL BE INSTALLED BETWEEN BASE AND WEAR LIFT PAYING BELIEVATOR BY THE PAYING BASE AND WEAR LIFT PAYING BELIEVATOR BY THE LOCAL POSTAL AUTHORITY. CONTRACTOR IS THE STRIPING AND STOP HERE ON RED SIGNS SHALL BE INFLACE WHENEVER PARSABLED AND THE		CONSTRUCTION NOTES
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QUANTITIES" FOR APPLICATION RATES. CENTERLINE AND LANE DESIGNATION SKIPS TO BE APPLIED AS SOON AS POSSIBLE ON MILLED SURFACE AND EACH NEW LIFT OF PAVEMENT; SKIPS MUST BE INPLACE BEFORE THE CONTRACTOR LEAVES FOR THE DAY. CONTRACTOR IS TO REMOVE PRIOR TO FINAL STRIPING.	18	,
20 EACH NEW LIFT OF PAVEMENT; SKIPS MUST BE INPLACE BEFORE THE CONTRACTOR LEAVES FOR THE DAY. CONTRACTOR IS TO REMOVE PRIOR TO FINAL STRIPING.	19	
21 FINAL STRIPING SHALL BE INSTALLED WITHIN 72 HOURS OF COMPLETION OF MAINLINE WEAR COURSE PAVING.		EACH NEW LIFT OF PAVEMENT; SKIPS MUST BE INPLACE BEFORE THE CONTRACTOR LEAVES FOR THE DAY. CONTRACTOR IS TO REMOVE PRIOR TO FINAL STRIPING.
	21	FINAL STRIPING SHALL BE INSTALLED WITHIN 72 HOURS OF COMPLETION OF MAINLINE WEAR COURSE PAVING.

THE FOLLOWING STANDARD PLATES APPROVED BY THE DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION SHALL APPLY TO THIS PROJECT.

	MNDOT STANDARD PLATES	~
PLATE NO.	DESCRIPTION	
4026A	CONCRETE ENCASED CONCRETE ADJUSTING RINGS	
4134A	CURB BOX CASTING FOR CATCH BASIN (FOR DESIGN B CURBS)- CASTING NO. 825	
4154B	CATCH BASIN GRATE CASTING - CASTING NO. 816	
7100H	CONCRETE CURB AND GUTTER (DESIGN B AND DESIGN V)	
7111J	INSTALLATION OF CATCH BASIN CASTINGS (CONCRETE CURB AND GUTTER)	
8000J	CHANNELIZERS	
9350A	MAILBOX SUPPORT (SWING-AWAY TYPE)	

								I HEREBY CERTIFY THAT THE OR UNDER MY DIRECT SUP LICENSED PROFESSIONAL THE STATE OF MINNESOTA PRINT NAME: GERALD
NO	DATE	BY	CKD	APPR	REVISION	03/02/2021	12:40:45 PM	SIGNATURE:
NAME: I	DATE: 02-24-2021							

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: 02-24-2021 LICENSE NO. 26511

DRAWN BY <u>KPR</u> DATE 12/11/2020
DESIGN BY <u>KPR</u> DATE 12/11/2020

CHECKED BY <u>CSO</u> DATE <u>01/28/2021</u>

ANOKA COUNTY

ANOKA COUNTY HIGHWAY DEPT. STATEMENT OF ESTIMATED QUANTITIES

 STATE AID PROJECT
 002-635-013

 STATE AID PROJECT
 183-101-012

Sheet 2 of 21 Sheets

	STORM DRAINAGE TAB								
NUMBER	TYPE	ACTION	NEW CASTING	FURNISH AND INSTALL CASTING ASSEMBLY	RING HEIGHT -INCIDENTAL-	GROUT CATCH BASIN OR MANHOLE	NOTES		
				EACH	LIN FT	EACH			
100	СВ	GROUT				1	GROUT RINGS AND CASTING		
101	MH	GROUT				1	GROUT RINGS AND CASTING		
102	СВ	OK				1			
103	СВ	GROUT				1	GROUT RINGS AND CASTING		
104	СВ	GROUT				1	GROUT RINGS AND CASTING		
105	СВ	RE-RING	А	1	0.7				
106	СВ	GROUT				1	GROUT RINGS AND DOGHOUSE		
107	СВ	GROUT				1	GROUT RINGS AND CASTING		
108	СВ	GROUT				1	GROUT RINGS AND CASTING		
109	СВ	GROUT				1	GROUT RINGS AND CASTING		
110	СВ	RE-RING	Α	1	0.4				
111	СВ	GROUT				1	GROUT RINGS AND CASTING		
112	СВ	RE-RING	A	1	0.7				
113	СВ	GROUT				1	GROUT RINGS AND CASTING		
113A	MH	GROUT				1	GROUT RINGS, CASTING, AND DOGHOUSE		
114	СВ	RE-RING	А	1	0.2				
115	СВ	GROUT				1	GROUT RINGS AND CASTING		
116	СВ	GROUT				1	GROUT RINGS AND CASTING		
117	СВ	GROUT				1	GROUT RINGS AND CASTING		
118	СВ	GROUT				1	GROUT RINGS AND CASTING		
118A	СВ	GROUT				1	GROUT RINGS AND CASTING		
200	MH	GROUT				1	GROUT RINGS AND CASTING		
201	MH	GROUT				1	GROUT RINGS AND CASTING		
202	MH	GROUT				1	GROUT RINGS AND CASTING		
		TOTALS:		4	2.0	19			

CASTING ASSEMBLIES SUMMARY								
ASSEMBLY	RING OR FRAME CASTING	COVER OR GRATE CASTING	CURB BOX	DESCRIPTION	NOTES	QUANTITY		
А	NEENAH R-3250-DVSP	V	YES	24" GRATE, CURB BOX		4		
ALL CASTING HEIGHTS ARE TO BE VERIFIED IN THE FIELD								
ALL MANHOLE COVERS SHOULD BE LABELED AS STORM OR SANITARY								
		NEW CAST	INGS T	O BE INSTALLED AFTER ASI	PHALT MILLING IS COMPLETED			
		MANHOLE	CASTI	NGS TO BE RECESSED 1/4"	FROM TOP OF FINISHED MAT			

STATION	POINT	LEFT GRADE	RIGHT GRAD
19+87	BEGIN SUPER LT	-2.0%	-2.0%
20+00		-1.7%	-2.0%
20+50		-0.7%	-2.0%
20+83		0.0%	-2.0%
21+00		0.4%	-2.0%
21+49		1.4%	-2.0%
21+79	BEGIN SUPER RT	2.0%	-2.0%
21+90		2.2%	-2.2%
22+00		2.4%	-2.4%
22+12	PC	2.7%	-2.7%
22+50		3.5%	-3.5%
22+75	BEGIN FULL SUPER	4.0%	-4.0%
23+00		4.0%	-4.0%
23+50		4.0%	-4.0%
24+00		4.0%	-4.0%
24+50		4.0%	-4.0%
24+83	END FULL SUPER	4.0%	-4.0%
25+00	LIND I OLL OOI LIK	3.6%	-3.6%
25+46	PT	2.7%	-2.7%
25+79	MODIFIED SUPER	2.0%	-2.7 %
	WODIFIED SUPER		
26+00		2.0%	-2.0%
26+50		2.0%	-2.0%
27+00		2.0%	-2.0%
27+50		2.0%	-2.0%
28+00		2.0%	-2.0%
28+50		2.0%	-2.0%
28+81	MODIFIED SUPER	2.0%	-2.0%
29+00		2.4%	-2.4%
29+14	PC	2.7%	-2.7%
29+50		3.4%	-3.4%
29+77	BEGIN FULL SUPER	4.0%	-4.0%
30+50		4.0%	-4.0%
31+00		4.0%	-4.0%
31+50		4.0%	-4.0%
32+00		4.0%	-4.0%
32+50		4.0%	-4.0%
33+00		4.0%	-4.0%
33+50		4.0%	-4.0%
34+00		4.0%	-4.0%
34+50		4.0%	-4.0%
35+00		4.0%	-4.0%
35+50		4.0%	-4.0%
36+00	END ELLI CUDED	4.0%	-4.0%
36+38	END FULL SUPER	4.0%	-4.0%
36+50		3.8%	-3.8%
37+01	PT PAUD DE	2.7%	-2.7%
37+34	END SUPER RT	2.0%	-2.0%
37+73		1.2%	-2.0%
38+00		0.6%	-2.0%
38+30		0.0%	-2.0%
38+50		-0.4%	-2.0%
39+00		-1.5%	-2.0%
39+26	END SUPER LT	-2.0%	-2.0%

SUPERELEVATION CORRECTION TAB

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NO	DATE	BY	CKD	APPR	REVISION	03/02/2021	12:40:52 PM	
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HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROPESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: GERALD J. AUGE JR.

SIGNATURE:

DATE: 02-24-2021 LICENSE NO. 26511

DRAWN BY <u>KPR</u> DATE <u>12/11/2020</u>

DESIGN BY <u>KPR</u> DATE <u>12/11/2020</u>

CHECKED BY <u>CSO</u> DATE <u>01/28/2021</u>



ANOKA COUNTY HIGHWAY DEPT.

TABULATIONS

 STATE AID PROJECT
 002-635-013

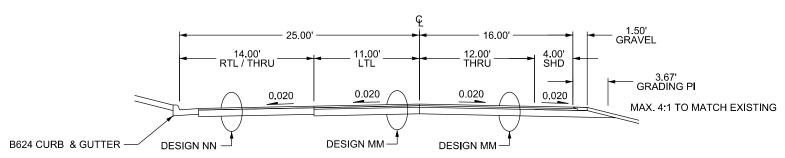
 STATE AID PROJECT
 183-101-012

Sheet 3 of 21 Sheets

CSAH 35 - OLD CENTRAL AVE.

PROPOSED SECTION

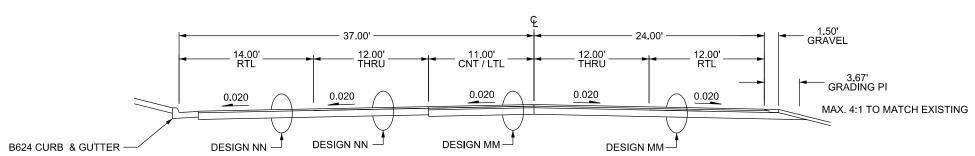
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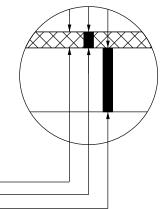
CSAH 35 - OLD CENTRAL AVE.

PROPOSED SECTION

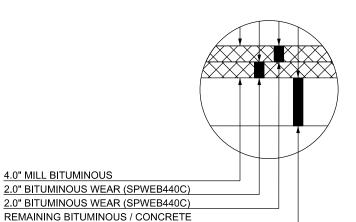
15+10.00 - 19+79.00







DESIGN MM MILL SECTION



2.0" MILL BITUMINOUS
2.0" BITUMINOUS WEAR (SPWEB440C

REMAINING BITUMINOUS

DATE BY CKD APPR REVISION 03/02/2021 12:41:30 PM DATE: 02-24-2021

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: GERALD J. AUGE LICENSE NO. __26511 SIGNATURE:

CHECKED BY <u>CSO</u> DATE <u>01/28/202</u>



4.0" MILL BITUMINOUS

ANOKA COUNTY HIGHWAY DEPT.

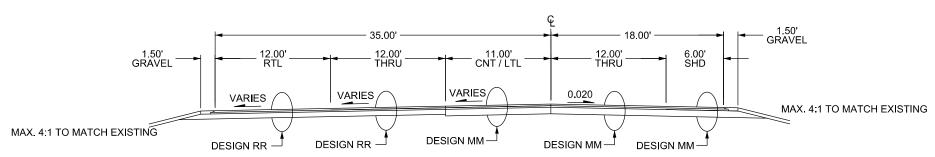
002-635-013 STATE AID PROJECT STATE AID PROJECT 183-101-012 TYPICAL SECTIONS

Sheet 4 of 21 Sheets

CSAH 35 - OLD CENTRAL AVE.

PROPOSED SECTION

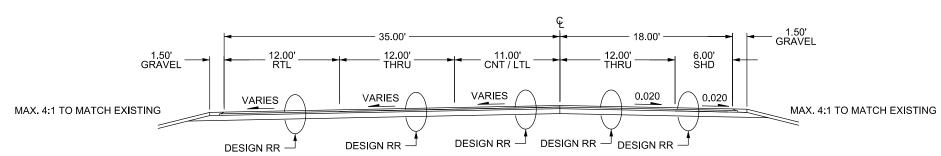
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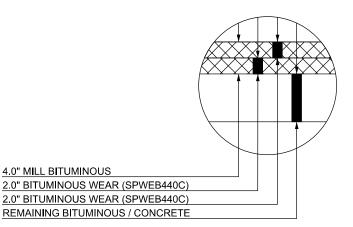
CSAH 35 - OLD CENTRAL AVE.

PROPOSED SECTION

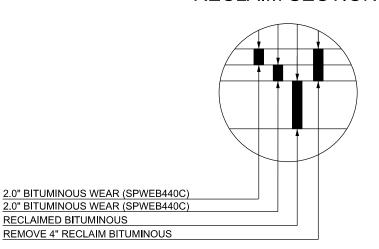
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DESIGN MM MILL SECTION

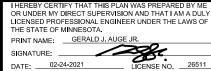


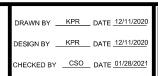
DESIGN RR RECLAIM SECTION



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4.0" MILL BITUMINOUS





RECLAIMED BITUMINOUS REMOVE 4" RECLAIM BITUMINOUS

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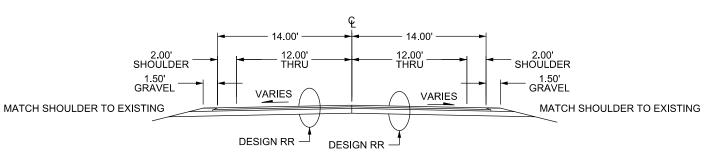
002-635-013 STATE AID PROJECT STATE AID PROJECT 183-101-012 TYPICAL SECTIONS

Sheet <u>5</u> of <u>21</u> Sheets

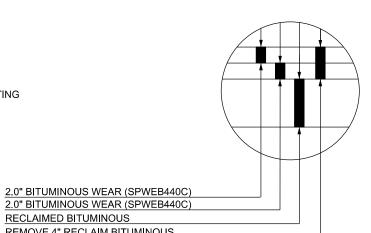
CSAH 35 - OLD CENTRAL AVE.

PROPOSED SECTION

22+80.00 - 37+11.00



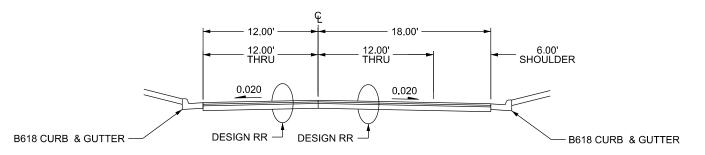
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CSAH 35 - OLD CENTRAL AVE.

PROPOSED SECTION

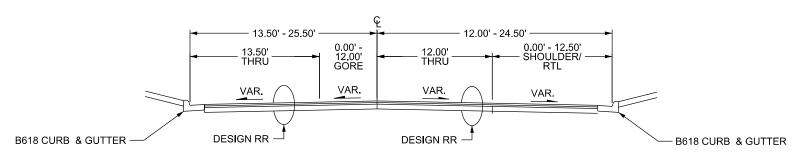
37+11.00 - 54+90.00



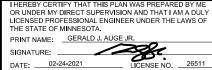
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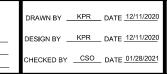
PROPOSED SECTION

1+51.00 - 4+32.00



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ANOKA COUNTY HIGHWAY DEPT.

002-635-013 STATE AID PROJECT STATE AID PROJECT 183-101-012

RECLAIMED BITUMINOUS REMOVE 4" RECLAIM BITUMINOUS

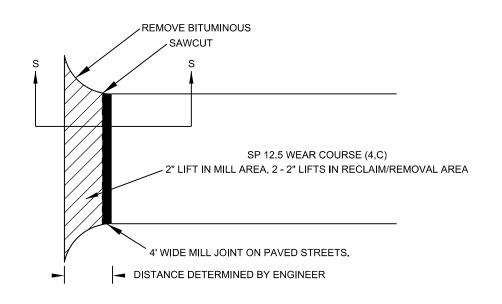
TYPICAL SECTIONS

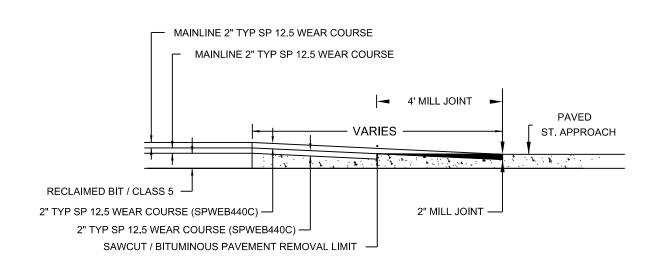
Sheet 6 of 21 Sheets

STREET APPROACH DETAIL (RECLAIM)

BITUMINOUS STREET

PLAN VIEW SECTION S - S





								I HEREBY CERTIFY THA' OR UNDER MY DIRECT S LICENSED PROFESSION THE STATE OF MINNESC PRINT NAME: GERA
NO	DATE	BY	CKD	APPR	REVISION	03/02/2021	12:41:34 PM	SIGNATURE:
NAME:	P:\21-01-00\CSA	H_35_(81S	T-TH10)\Ba	se\Propose	ed\CSAH35_DETA I L	S.dgn		DATE: <u>02-24-2021</u>

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: 02-24-2021 LICENSE NO. 26511

BY ME
A DULY
AWS OF

DRAWN BY KPR DATE 12/11/2020

DESIGN BY KPR DATE 12/11/2020

CHECKED BY CSO DATE 01/28/202:

ANOKA COUNTY

ANOKA COUNTY HIGHWAY DEPT.

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 STATE AID PROJECT
 002-635-013

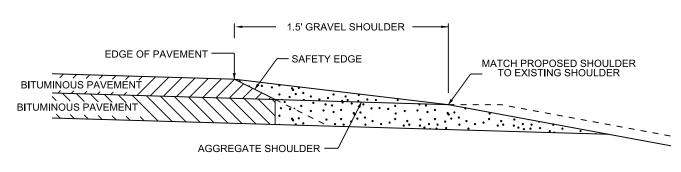
 STATE AID PROJECT
 183-101-012

DETAILS

Sheet 7 of 21 Sheets

SHOULDER DETAIL

BITUMINOUS SAFETY EDGE **GRAVEL SHOULDER**



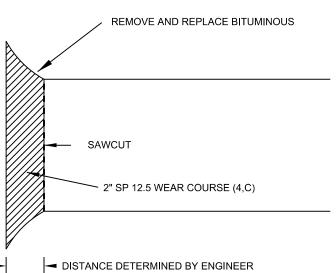
SAFETY EDGE TO BE USED IN ALL NON-CURB AREAS ON SHOULDER.

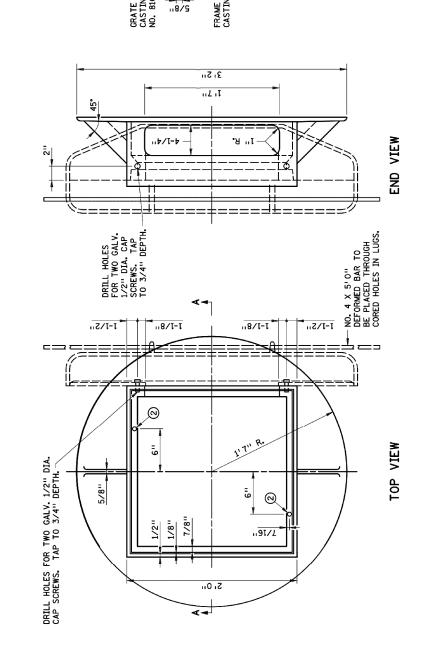
OPTIONAL DESIGN EXTENDS SAFETY EDGE DEEPER THAN 6" AND WIDER THAN 10.5". SEE SPECIAL PROVISIONS .

RECLAIM AREA - DRIVEWAY DETAIL

BITUMINOUS

PLAN VIEW





GRATE

118/7-8

1/5,,

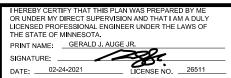
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GRATE FRAME CASTING TYPE C & D

NOTE: THE CONTRATOR SHALL LINE UP THE LIP OF CONCRETE CURB AND GUTTER FROM THE LIP OF THE ADJACENT CURB LINE TO THE LIP OF THE CASTING OVER A DISTANCE OF 3' (ON EACH SIDE OF THE CASTING). THIS WORK SHALL BE INCIDENTAL TO THE CONCRETE CURB & GUTTER PAY ITEMS.

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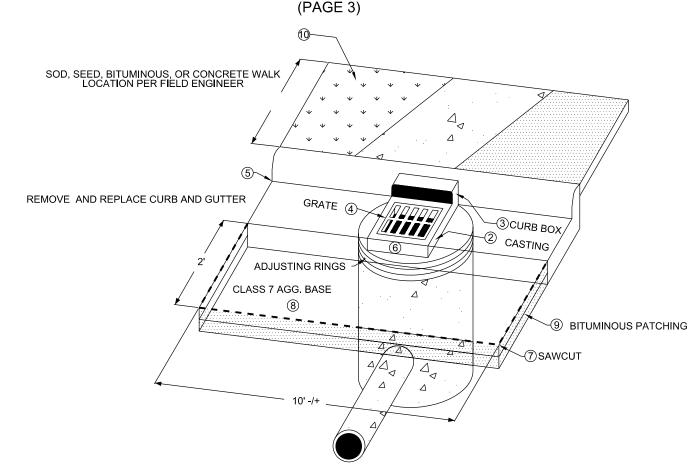
ANOKA COUNTY HIGHWAY DEPT.

002-635-013 STATE AID PROJECT STATE AID PROJECT 183-101-012

DETAILS Sheet 8 of 21 Sheets

CATCH BASIN DETAIL

SEE STRUCTURE TAB FOR LOCATION



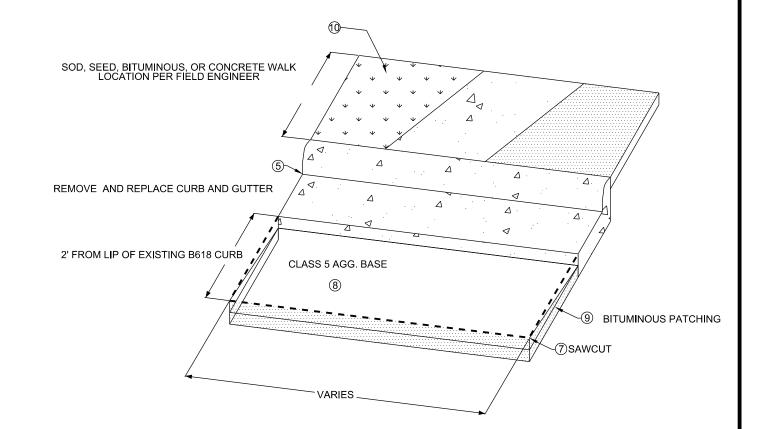
NOTES

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.
- (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), HYDAULIC REINFORCED FIBER MATRIX OR EROSION CONTROL BLANKET, BITUMINOUS, CONCRETE.

NEW CURB DETAIL

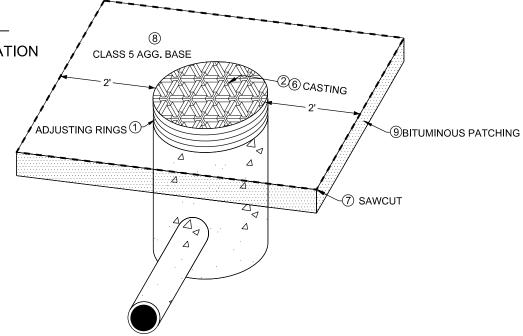
SEE PLAN FOR LOCATION



MANHOLE DETAIL

SEE STRUCTURE TAB FOR LOCATION

(PAGE 3)



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NAME:	NAME: P:\21-01-00\CSAH_35_(81ST-TH10)\Base\Proposed\CSAH35_DETAILS.dgn								

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

PRINT NAME: GERALD J. AUGE JR.

SIGNATURE: DATE: 02-24-2021 LICENSE NO. 26511

DRAWN BY __KPR __ DATE _12/11/2020
DESIGN BY __KPR __ DATE _12/11/2020
HECKED BY __CSO __DATE _01/28/2021

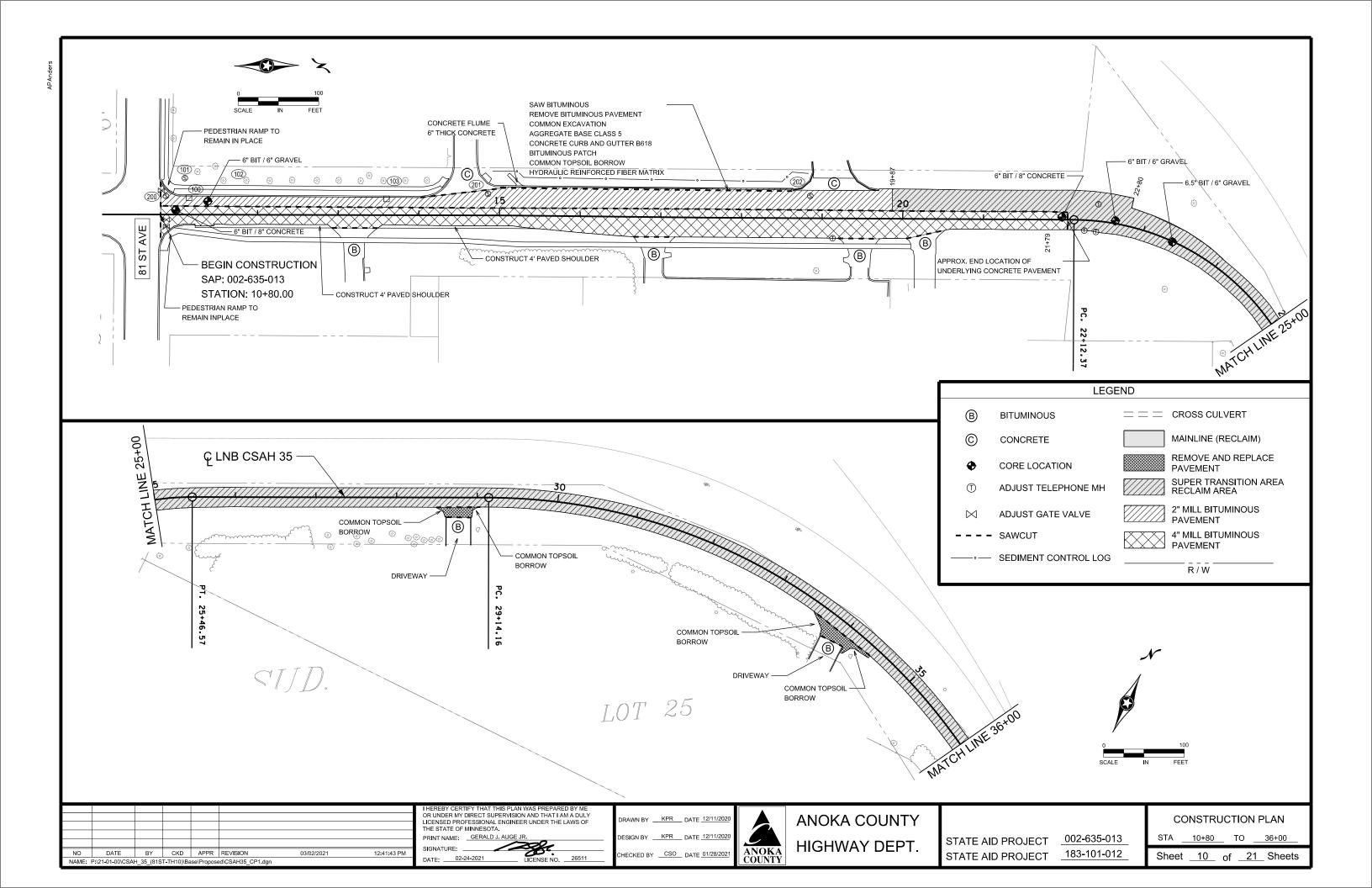
ANOKA COUNTY

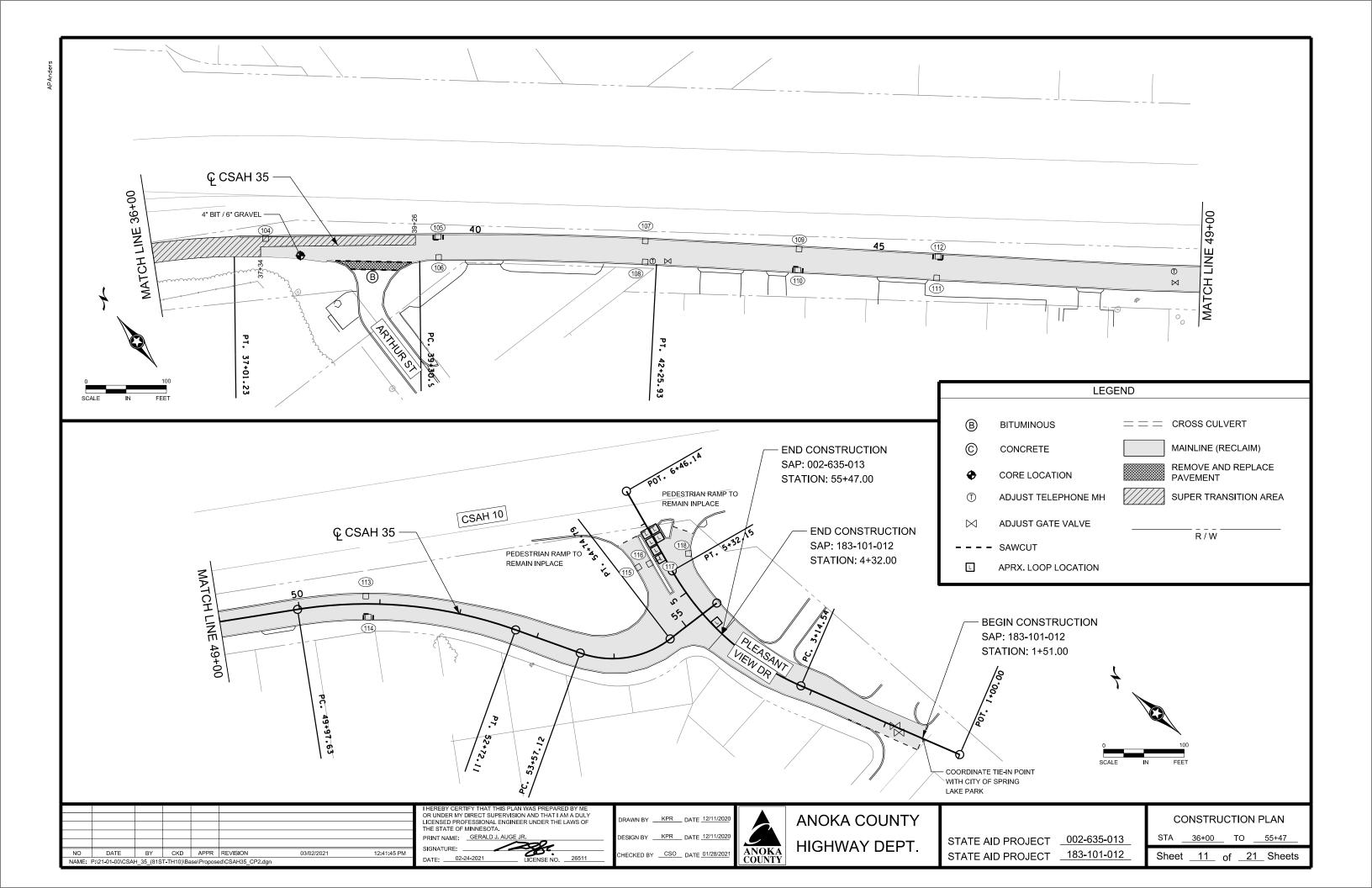
ANOKA COUNTY HIGHWAY DEPT.

STATE AID PROJECT 002-635-013
STATE AID PROJECT 183-101-012

DETAILS

Sheet 9 of 21 Sheets





PERMANENT PAVEMENT MARKING PLAN **NOTES AND GUIDELINES**

GENERAL INFORMATION:

THE ENGINEER'S INVOLVEMENT IN THE APPLICATION OF THE MATERIAL SHALL BE LIMITED TO FIELD CONSULTATION AND INSPECTION. ANOKA COUNTY HIGHWAY DEPARTMENT WILL PLACE NECESSARY "SPOTTING" AT APPROPRIATE POINTS TO PROVIDE HORIZONTAL CONTROL FOR STRIPING AND TO DETERMINE NECESSARY STARTING AND CUTOFF POINTS, LONGITUDINAL JOINTS, PAVEMENT EDGES AND EXISTING MARKINGS MAY SERVE AS HORIZONTAL CONTROL WHEN SO DIRECTED.

EDGE LINES AND LANE LINES ARE TO BE BROKEN ONLY AT INTERSECTIONS WITH PUBLIC. ROADS AND AT PRIVATE ENTRANCES IF THEY ARE CONTROLLED BY A YIELD SIGN. STOP SIGN. OR TRAFFIC SIGNAL. THE BREAK POINT IS TO BE AT THE START OF THE RADIUS FOR THE INTERSECTION OR AT MARKED STOP LINES OR CROSSWALKS.

A TOLERANCE OF 1 INCH UNDER OR 1 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.

MULTI COMPONENT (MULTI COMP):

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.

THE MULTI COMP MARKING APPLICATION SHALL IMMEDIATELY FOLLOW THE PAVEMENT CLEANING. GLASS BEANS SHALL BE APPLIED IMMEDIATELY AFTER APPLICATION OF THE MULTI COMP RESIN LINE TO PROVIDE AN IMMEDIATE NO-TRACK SYSTEM.

A MULTI COMP RESIN LINE SHALL BE APPLIED WITH A MINIMUM THICKNESS OF 20 MILS (WET) AND 4" WIDE. GLASS BEADS SHALL BE APPLIED AT A MINIMUM RATE OF 25LBS POUNDS PER GALLON RATE SUFFICIENT TO ACHIEVE AN ACCEPTABLE NO-TRACK SYSTEM.

OPERATIONS SHALL BE CONDUCTED ONLY WHEN THE ROAD PAVEMENT SURFACE TEMPERATURES ARE 50 DEGREES FAHRENHEIT OR GREATER.

PERMANENT PAVEMENT MARKINGS SHALL NOT BE PLACED OVER TEMPORARY TAPE MARKINGS.

PREFORMED THERMOPLASTIC:

THE PREFORMED THERMOPLASTIC MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS ON CLEAN AND DRY SURFACES. SEE SPECIAL PROVISIONS FOR PREFORMED THERMOPLASTIC MARKING SPECIFICATIONS.

AT THE TIME OF APPLYING THE MARKING MATERIAL, THE APPLICATION AREA SHALL BE FREE OF CONTAMINATION. THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE PRIOR TO THE LINE APPLICATION IN A MANNER AND TO THE EXTENT REQUIRED BY THE ENGINEER.

GLASS BEADS SHALL BE APPLIED IMMEDIATELY AFTER APPLICATION OF THE PAINT LINE.

EXCEPT WHEN USED AS A TEMPORARY MARKING, PAVEMENT MARKINGS SHALL ONLY BE APPLIED IN SEASONABLE WEATHER WHEN AIR TEMPERATURE IS 50 DEGREES FARHENHEIT OR HIGHER AND SHALL NOT BE APPLIED WHEN THE WIND OR OTHER CONDITIONS CAUSE A FILD OR DUST TO BE DEPOSITED ON THE PAVEMENT SURFACE AFTER CLEANING AND BEFORE THE MARKING MATERIAL CAN BE APPLIED.

THE FILLING OF TANKS, POURING OF MATERIALS OR CLEANING OF EQUIPMENT SHALL NOT BE PERFORMED ON UNPROTECTED PAVEMENT SURFACES UNLESS ADEQUATE PROVISIONS ARE MADE TO PREVENT SPILLAGE OF MATERIAL.

PAVEMENT MARKING TABULATION		
ПЕМ	UNIT	TOTAL QUANTITY
4" SOLID LINE WHITE - MULTI COMP	LINFT	10737
4" BROKEN LINE YELLOW - MULTI COMP	LINFT	276
4" SOLID LINE YELLOW - MULTI COMP	LINFT	1529
4" DOUBLE LINE YELLOW - MULTI COMP	LINFT	4195
24" SOLID LINE YELLOW - THERMOPLASTIC (PMS*)	LINFT	47
24" SOLID LINE WHITE - THERMOPLASTIC (PMS*)	LINFT	75
3'x6' ZEBRA CROSSWALK - PREFORMED THERMOPLASTIC	SQFT	360
PAVEMENT MESSAGE (RT ARROW) - PREFORMED THERMOPLASTIC	SQFT	78
PAVEMENT MESSAGE (LT ARROW) - PREFORMED THERMOPLASTIC	SQ FT	78

^{1 10&#}x27; STRIPE, 40' GAP

SYMBOLS & MATERIALS LEGEND

CROSSWALK BLOCK WHITE-POLY PREFORM

PAVEMENT MESSAGE (LEFT ARROW) POLY PREFORM

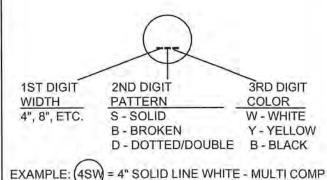
STRIPING KEY

CIRCLE - MULTI COMP

SQUARE - POLY PREFORM THERMOPLASTIC

TRIANGLE - PAINT

PENTAGON - REMOVABLE PREFORMED PLASTIC MARKING



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HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A

SIGNATURE

LICENSE NO 46732

HECKED BY CO DATE 01/27/2

RAWN BY TMV DATE 12/18/20



ANOKA COUNTY HIGHWAY DEPT.

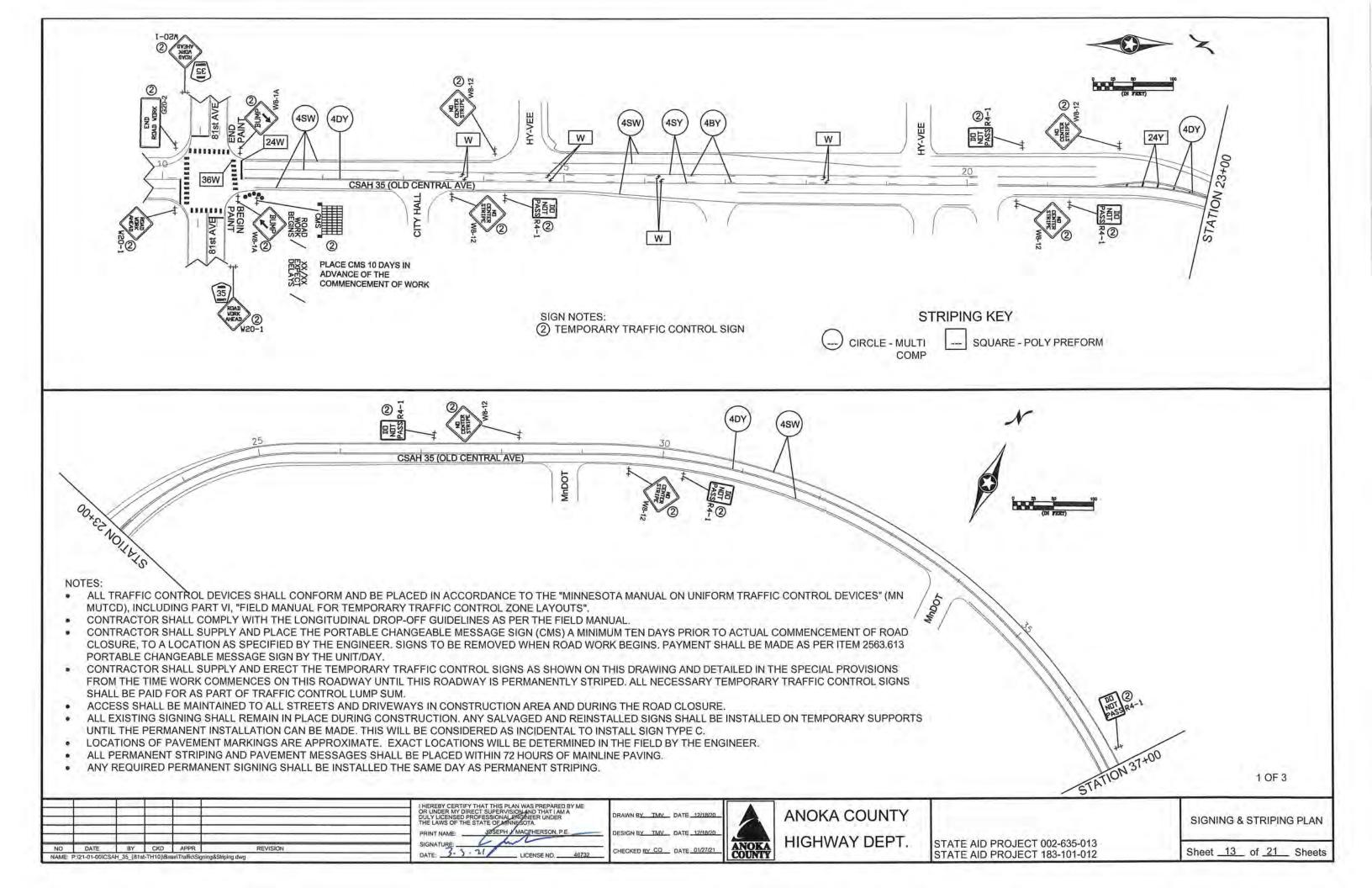
PERMANENT MARKING **TABULATION**

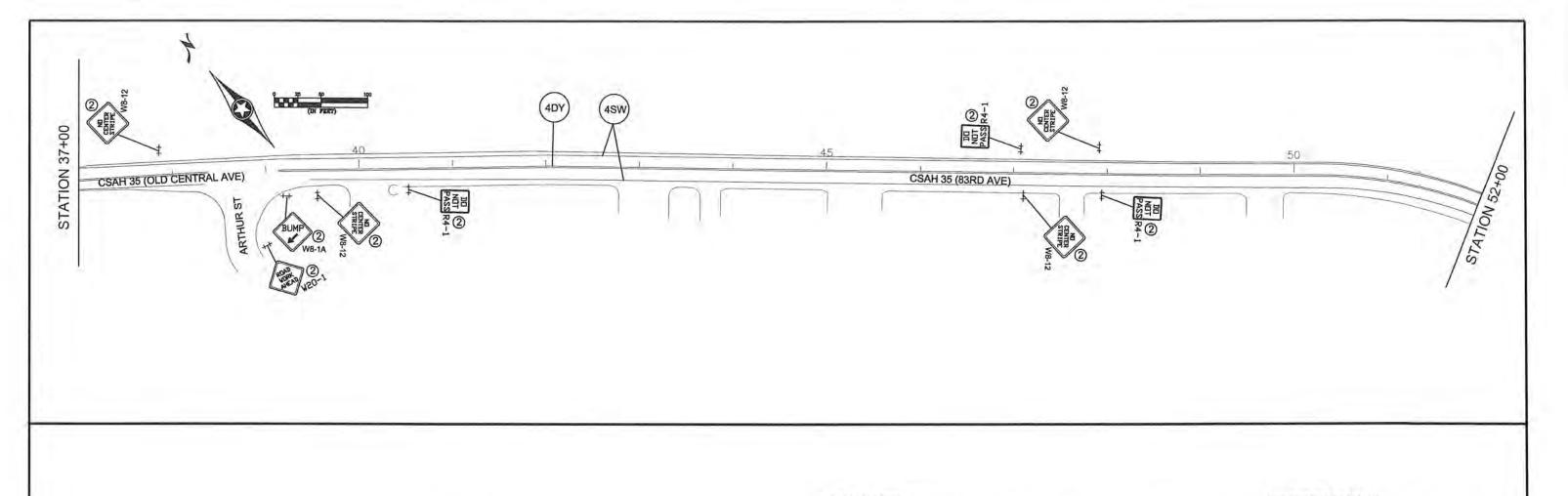
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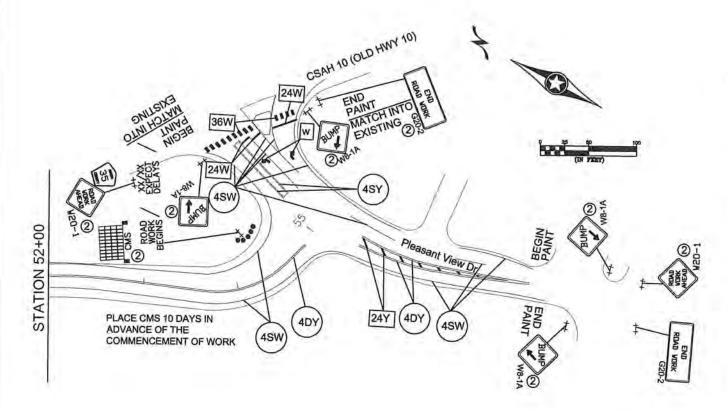
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^{*} PAVEMENT MARKING SPECIAL







SIGN NOTES:
(2) TEMPORARY TRAFFIC CONTROL SIGN

STRIPING KEY

CIRCLE - MULTI SQUARE - POLY PREFORM

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".
- CONTRACTOR SHALL COMPLY WITH THE LONGITUDINAL DROP-OFF GUIDELINES AS PER THE FIELD MANUAL.
- CONTRACTOR SHALL SUPPLY AND PLACE THE PORTABLE CHANGEABLE MESSAGE SIGN (CMS) A MINIMUM TEN DAYS PRIOR TO ACTUAL COMMENCEMENT OF ROAD CLOSURE, TO A LOCATION AS SPECIFIED BY THE ENGINEER. SIGNS TO BE REMOVED WHEN ROAD WORK BEGINS. PAYMENT SHALL BE MADE AS PER ITEM 2563.613 PORTABLE CHANGEABLE MESSAGE SIGN BY THE UNIT/DAY.
- CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING AND DETAILED IN THE SPECIAL PROVISIONS FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. ALL NECESSARY TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.
- ACCESS SHALL BE MAINTAINED TO ALL STREETS AND DRIVEWAYS IN CONSTRUCTION AREA AND DURING THE ROAD CLOSURE.
- 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.
- LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

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- ALL PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.
- ANY REQUIRED PERMANENT SIGNING SHALL BE INSTALLED THE SAME DAY AS PERMANENT STRIPING.

2 OF 3

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OSEPH J. MACPHERSON, P.E.	DESIGN
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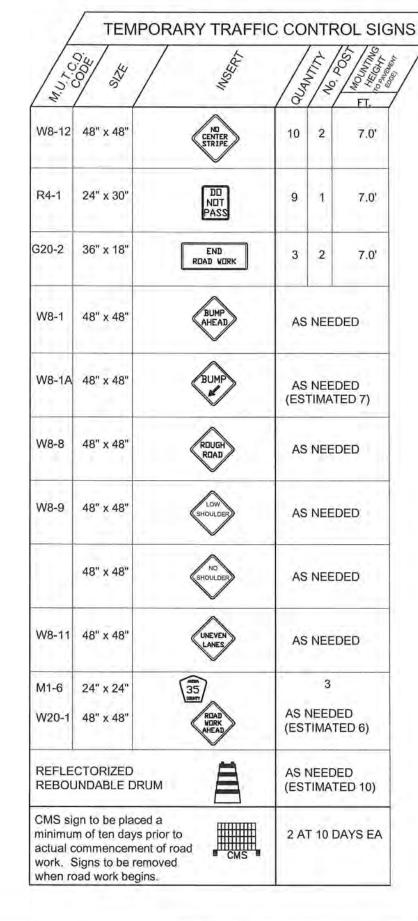
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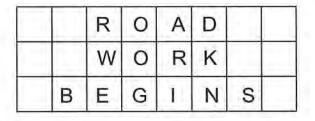
ANOKA COUNTY HIGHWAY DEPT.

SIGNING & STRIPING PLAN

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CHANGEABLE MESSAGE BOARD - MESSAGE SEQUENCE LAYOUT



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CMS SIGN TO BE PLACED A MINIMUM OF TEN DAYS PRIOR TO ACTUAL COMMENCEMENT OF ROAD WORK. SIGNS TO BE REMOVED WHEN ROAD WORK BEGINS.

STATE AID PROJECT 002-635-013

STATE AID PROJECT 183-101-012

3 OF 3

						I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL FAGINEER UNDER. THE LAWS OF THE STATE OF MINNESOTA. PRINT NAME. JOSEPH J. MACPHERSON, P.E.
NO	DATE	BY	CKD	APPR	REVISION	SIGNATURE:
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DESIGN BY TMV DATE 12/18/20

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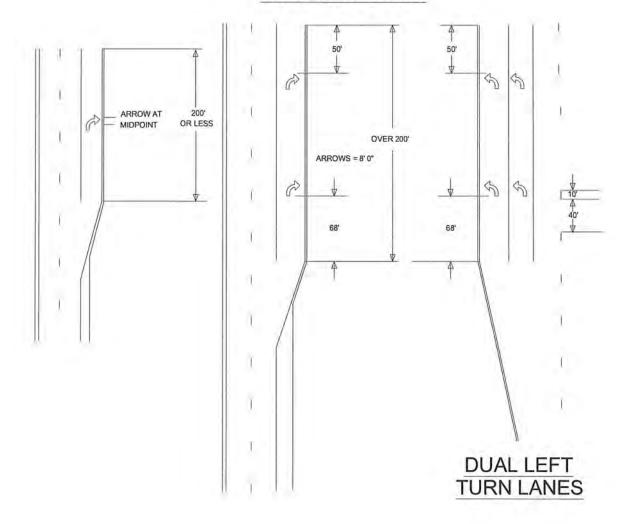


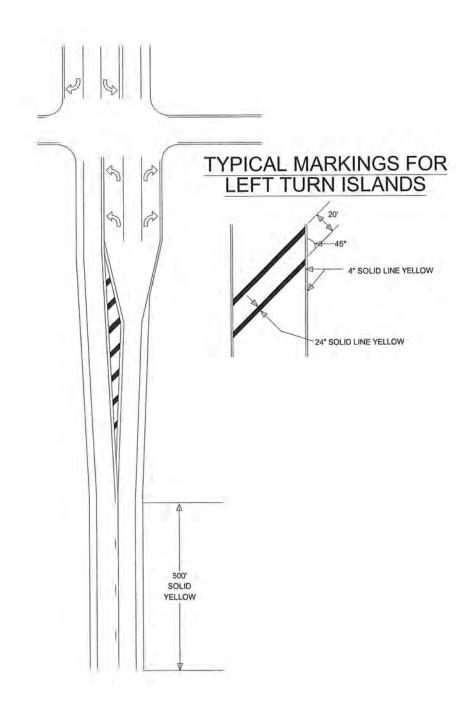
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SIGNING & STRIPING QUANTITIES

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TYPICAL MESSAGE PLACEMENT FOR TURN LANES





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OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY
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THE STATE OF MINNESOTA.
PRINT NAME:
JOSEPH J. MACPHERSON, P.E.

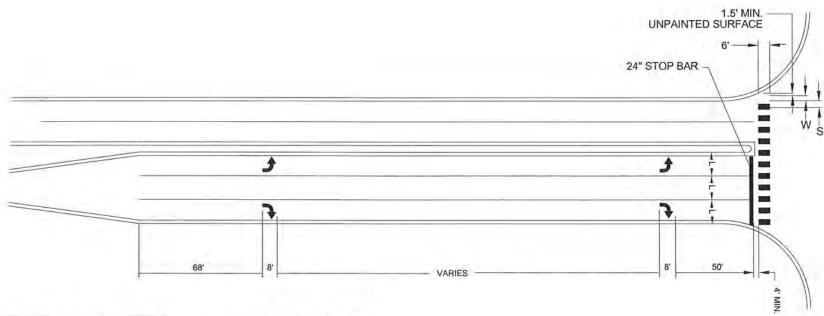
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ANOKA COUNTY ANOKA COUNTY HIGHWAY DEPT. SIGNING & STRIPING DETAILS

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MARKINGS FOR PEDESTRIAN CROSSWALKS



(L)	(W)	(S)
WIDTH OF INSIDE LANE	WIDTH OF PAINTED AREAS	WIDTH OF SPACE
9'	2,0'	2,5'
10'	2,5'	2.5
11'	2,5'	3.0'
12'	3.0'	3.0
13'	3.0'	3.5

NOTES: CROSSWALKS:

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

2 OF 2

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JCENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF
THE STATE OF MINNESOTA
PRINT NAME:

JOSEPH J. MACPHERSON, P.E.

 EPH J. MACPHERSON, P.E.
 DESIGN BY
 TMV
 DATE
 12/21/20

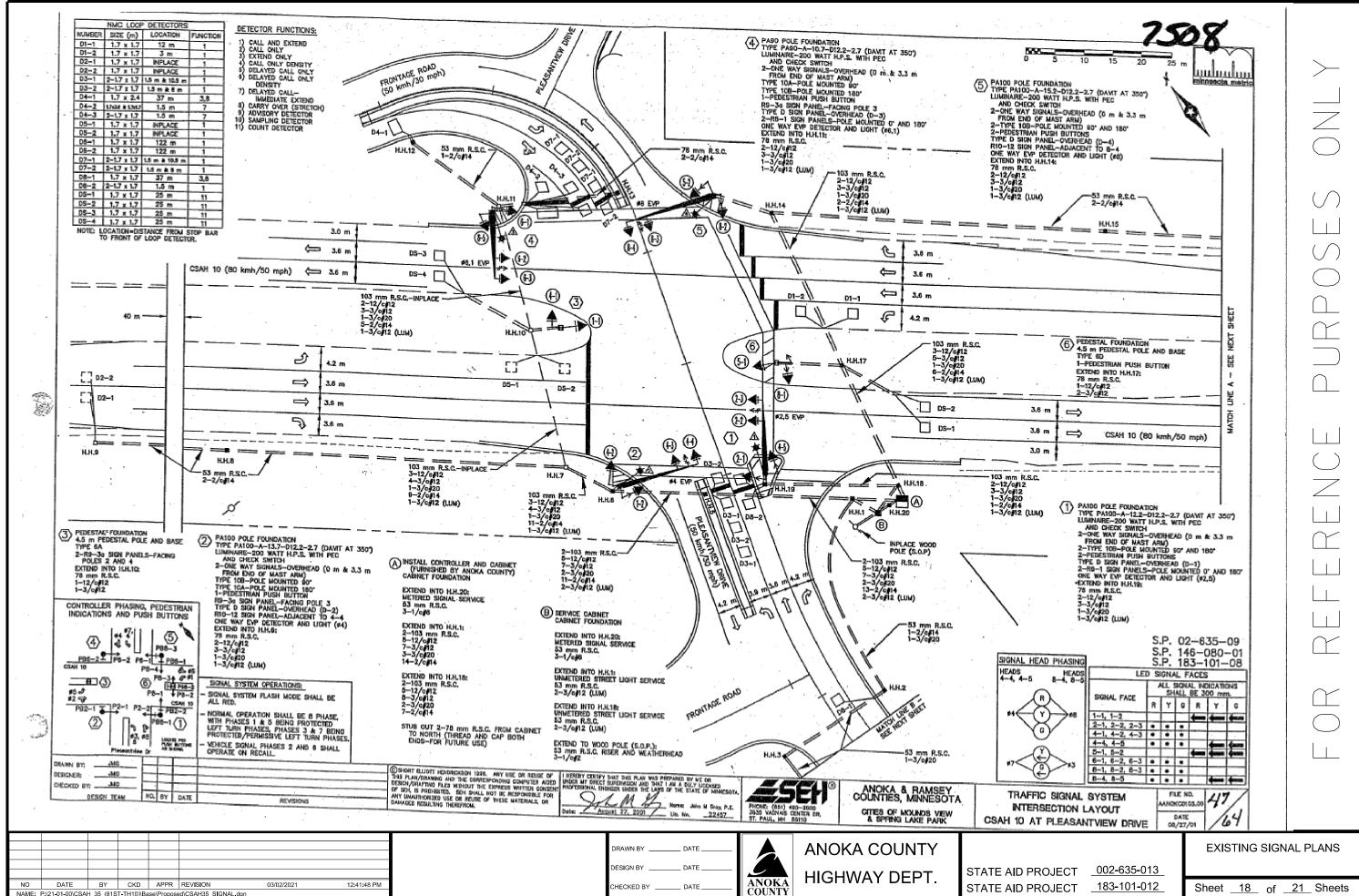
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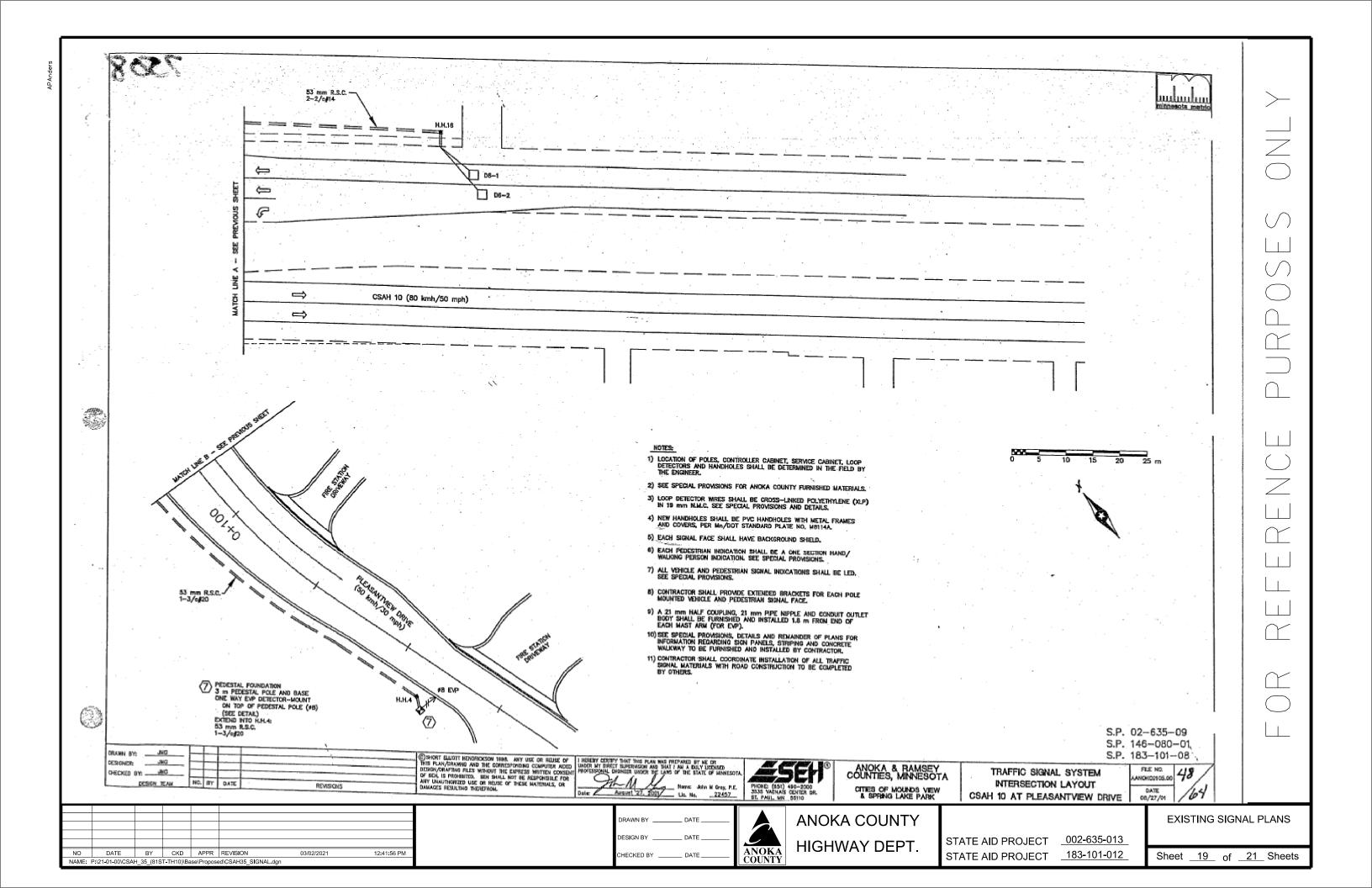
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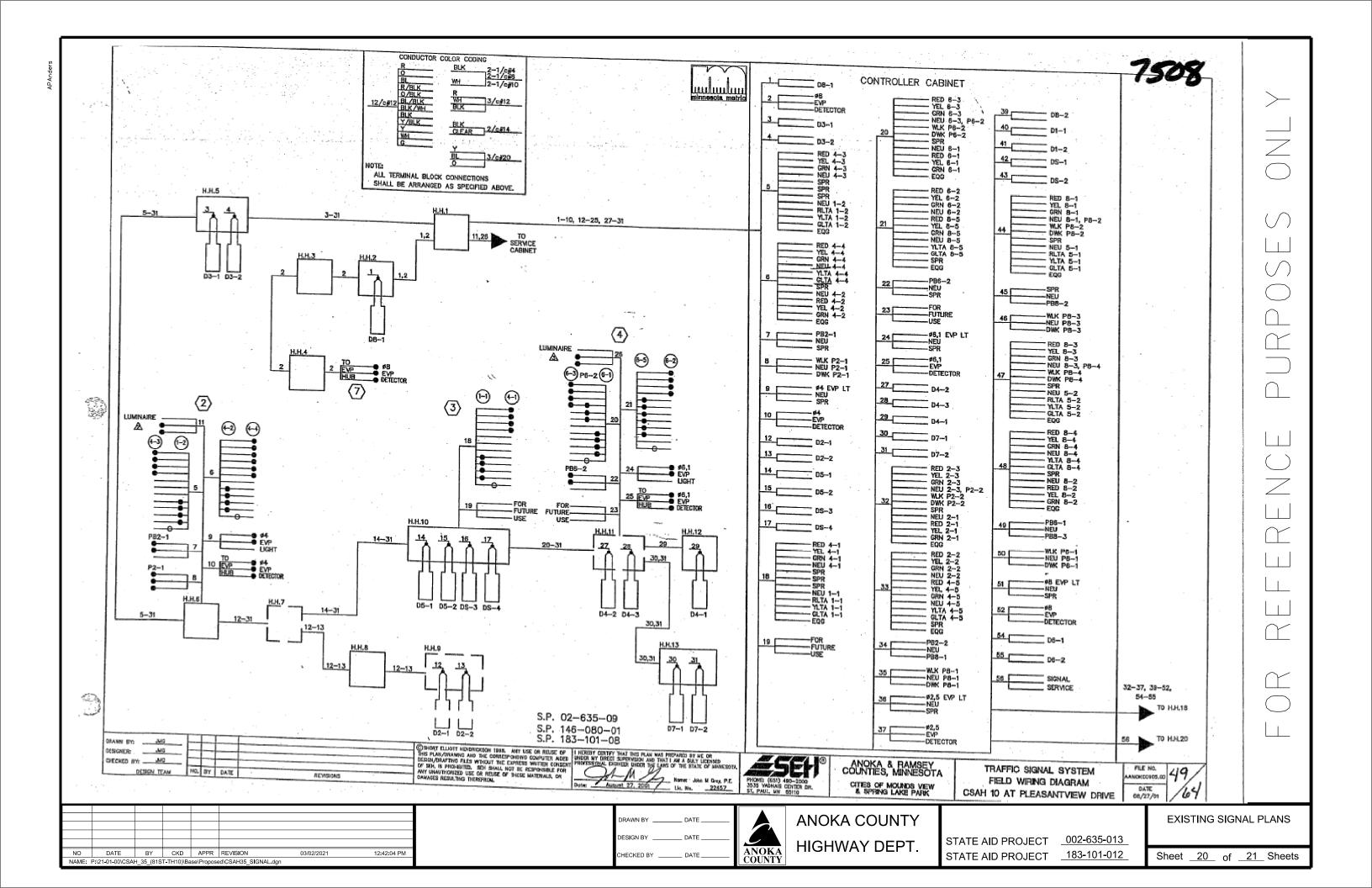
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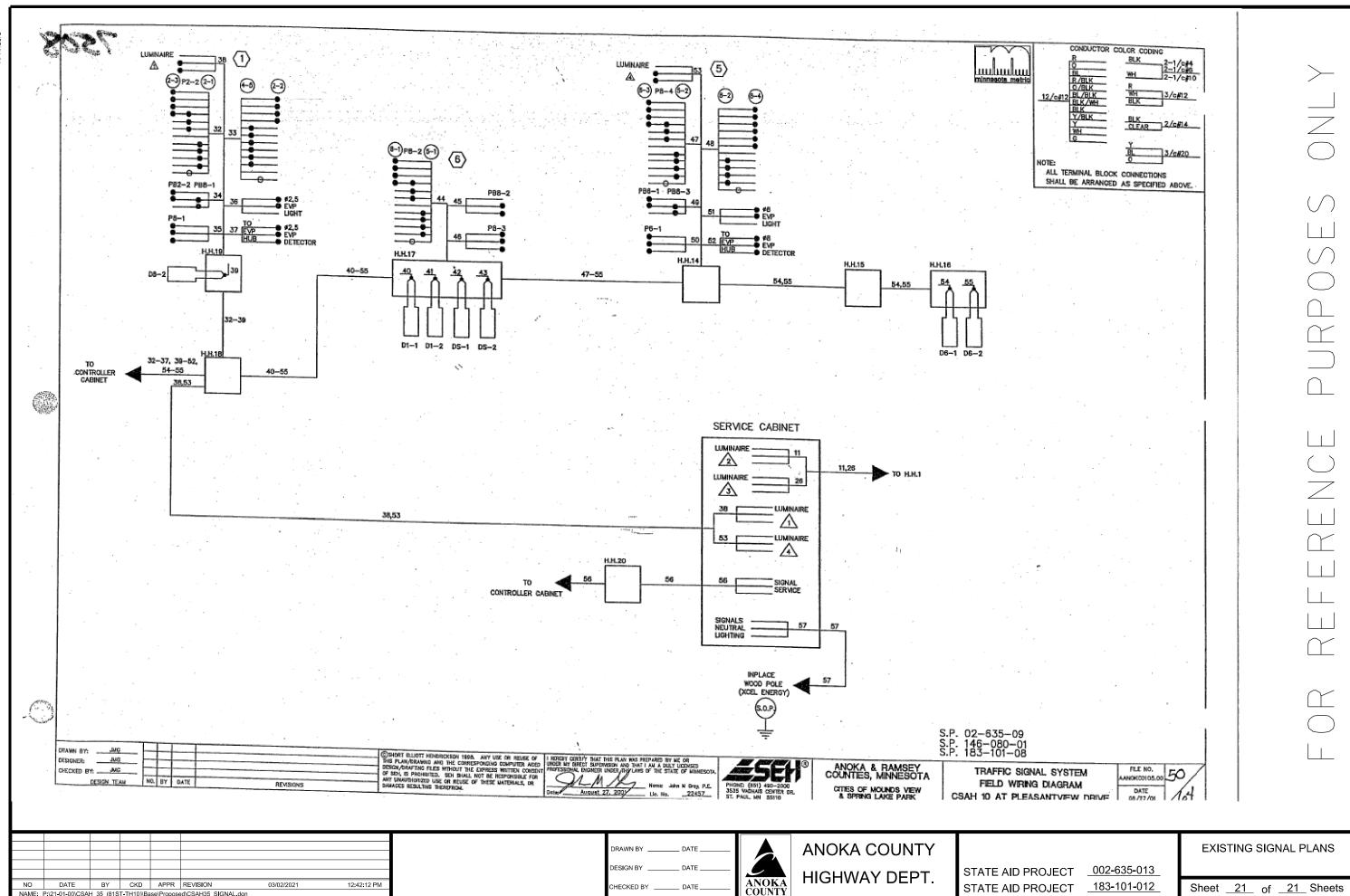
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