

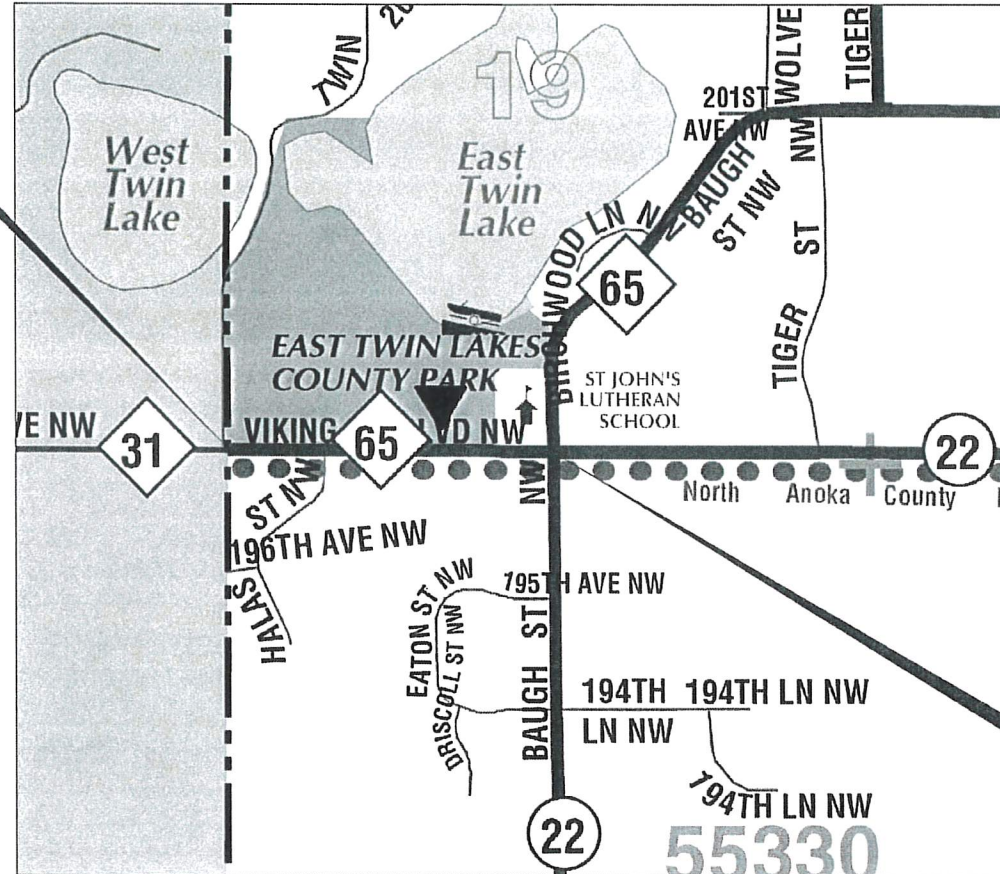
MINNESOTA DEPARTMENT OF TRANSPORTATION ANOKA COUNTY

CONSTRUCTION PLAN FOR BITUMINOUS SURFACING, CURB & GUTTER, AND BITUMINOUS RECLAMATION

LOCATED ON CSAH 65 BETWEEN WEST COUNTY LINE AND BAUGH ST

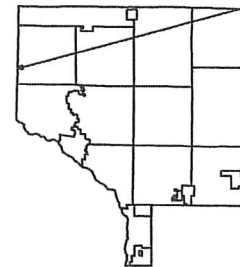
	<u>CSAH 65</u>	
GROSS LENGTH	2570.00 FEET	0.487 MILES
EXCEPTIONS-LENGTH	0.00 FEET	0.000 MILES
NET LENGTH	2570.00 FEET	0.487 MILES

BEGIN SAP 002-665-001
CSAH 65, STA: 10+33.00



END SAP 002-665-001
CSAH 65, STA: 36+03.00

PROJECT LOCATION



DESIGN DESIGNATION (CSAH 65)			
ESAL 20	918,161	FUNCTIONAL CLASSIFICATION	A-MINOR CONNECTOR
R VALUE	50	NO. OF TRAFFIC LANES	2
ADT (2022)	7,772	DESIGN SPEED	55 MPH
PROJ. ADT (2042)	7,772	STOPPING SIGHT DISTANCE BASED ON:	
PROJ. HCADT (2042)	459	HEIGHT OF EYE	3.5'
SOIL FACTOR	N/A	HEIGHT OF OBJECT	2.0'
		DESIGN SPEED NOT ACHIEVED AT:	
		STA. _____ TO STA. _____	MPH _____

CITY OF NOWTHEN
ANOKA COUNTY
MN/DOT TRANSPORTATION DISTRICT - METRO
SECTION 19, 30
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 AND BE INSTALLED IN ACCORDANCE WITH THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MNMUTCD), AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."

THIS PLAN CONTAINS 11 SHEETS

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3-4	TYPICAL SECTIONS
5-6	DETAILS
7	CONSTRUCTION PLAN
8	PERMANENT MARKING TABULATION
9	TEMPORARY SIGNING PERMANENT STRIPING
10	TEMPORARY SIGNING QUANTITIES
11	SIGNING & STRIPING DETAILS

Approved 1-31-22
ANOKA COUNTY ENGINEER

Approved 2/16-22
SHERBURNE COUNTY ENGINEER

Approved 2-9-22
CITY OF NOWTHEN ENGINEER

For 2/17/2022
DATE
DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE AID RULES/POLICY

For 2/17/2022
DATE
STATE AID ENGINEER
APPROVED FOR STATE AID FUNDING

NO	DATE	BY	CHKD	APPR	REVISION
	01/05/2022				2:04:18 PM

NAME: P:\21-01-00\CSAH_65_(WestCL-Baugh)\Base\Proposed\OLD WORK\CR65_TITLE.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: AARON P. ANDERSON
SIGNATURE:
DATE: 1-5-2021 LICENSE NO. 58657

DRAWN BY: APA DATE: 01/05/2022
DESIGN BY: APA DATE: 01/05/2022
CHECKED BY: CO DATE: 01/05/2022



**ANOKA COUNTY
HIGHWAY DEPT.**

STATE AID PROJECT 002-665-001

TITLE SHEET
Sheet 1 of 11 Sheets

STATEMENT OF ESTIMATED QUANTITIES

Notes	Item Number	ITEM DESCRIPTION	Unit	TOTAL PROJECT QUANTITIES ESTIMATED
	2021.501	MOBILIZATION	LUMP SUM	1
1	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	206
1,2	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	290
1	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	372
4	2123.510	MOTOR GRADER	hour	8
	2130.523	WATER	M GALLON	74
5	2211.509	AGGREGATE BASE CLASS 5	TON	30
3	2215.504	FULL DEPTH RECLAMATION	SQ YD	8433
6	2215.507	HAUL FULL DEPTH RECLAMATION (LV)	CU YD	80
7	2221.509	SHOULDER BASE AGGREGATE CLASS 5	TON	243
8	2232.604	MILL BITUMINOUS PAVEMENT (SPECIAL)	SQ YD	41
	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	422
9	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3;B)	TON	34
10	2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (4;C)	TON	94
	2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (4;C)	TON	1940
	2531.503	CONCRETE CURB AND GUTTER DESIGN B418	LIN FT	814
11	2540.602	MAIL BOX SUPPORT	EACH	2
	2563.601	TRAFFIC CONTROL SUPERVISOR	LUMP SUM	1
12	2563.601	TRAFFIC CONTROL	LUMP SUM	1
13	2563.613	PORTABLE CHANGEABLE MESSAGE SIGN	UNIT DAY	20
14	2581.503	REMOVABLE PREFORMED PAVEMENT MARKING TAPE	LIN FT	103
15	2582.503	4" SOLID LINE MULTI-COMPONENT	LIN FT	5810
15	2582.503	4" BROKEN LINE MULTI-COMPONENT	LIN FT	440
15	2582.503	4" DOUBLE SOLID LINE MULTI-COMPONENT	LIN FT	400
16	2582.518	CROSSWALK PREFORM THERMOPLASTIC	SQ FT	90
16	2582.603	PAVEMENT MARKING SPECIAL	LIN FT	24

CONSTRUCTION NOTES

1	REFERENCE DETAILS (PAGE 4-5) FOR REMOVAL DETAILS
2	ITEM FOR BITUMINOUS DRIVEWAYS AND STREET APPROACHES. CONTRACTOR IS RESPONSIBLE FOR CONTACTING PROPERTY OWNER 48 HOURS BEFORE STARTING OPERATION.
3	RECLAMATION OF BITUMINOUS CURB INCIDENTAL TO ITEM
4	ITEM USED TO MOVE EXCESS RECLAIM MATERIAL AT THE RECLAIM AREA LIMITS TO CREATE A SMOOTH TRANSITION BETWEEN THE PROPOSED AND EXISTING PAVEMENT
5	GRAVEL BASE FOR BITUMINOUS DRIVEWAYS.
6	ITEM USED TO HAUL EXCESS RECLAIM FROM TIE-IN POINTS AND REUSED ON SITE.
7	ITEM INCLUDES 7 TONS FOR EACH GRAVEL ENTRANCE AND GRAVEL STREET APPROACH.
8	TO BE USED FOR MILLING STREET APPROACHES AND PAVED DRIVEWAY TIE-INS TO CREATE SMOOTH TRANSITION FROM MILLED SURFACE TO EXISTING STREET/DRIVEWAY PAVEMENT. DISTANCE DETERMINED BY ENGINEER.
9	ITEM FOR BITUMINOUS DRIVEWAYS. DRIVEWAYS SHALL BE PAVED AFTER MAINLINE AND BEFORE FINAL STRIPING.
10	ITEM FOR STREET APPROACHES. STREET APPROACHES SHALL BE PAVED AFTER MAINLINE, AND BEFORE FINAL STRIPING. SEE BITUMINOUS STREET SUMMARY TAB.
11	MAILBOXES ARE TO BE INSTALLED AT THE EXISTING MAILBOX LOCATION OR AS DIRECTED BY THE LOCAL POSTAL AUTHORITY, CONTRACTOR IS RESPONSIBLE FOR CONTACTING. MAILBOX REMOVAL AND ALL MATERIALS ARE INCIDENTAL TO INSTALLATION.
12	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.
13	2 MESSAGE BOARDS, ONE ON THE EACH END OF PROJECT, SHALL BE INSTALLED 10 DAYS PRIOR TO ANY CONSTRUCTION; REFERENCE STRIPING PLAN FOR DETAILS.
14	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.
15	FINAL STRIPING SHALL BE INSTALLED WITHIN 72 HOURS OF COMPLETION OF MAINLINE WEAR COURSE PAVING. CANNOT BE INSTALLED SOONER THAN 48 HOURS.
16	INCLUDES ALL THERMOPLASTIC STOP BARS, GORE AREA HATCHING, CROSSWALKS, LANE DESIGNATION ARROWS, AND PAVEMENT MESSAGES.

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

BITUMINOUS STREET SUMMARY

LOCATION	BITUMINOUS		NOTES
	2360 TYPE SP 12.5 WEAR (4,C)	TON	
Twin Pkwy NW	43		[1]
Twin Lakes Park Entrance	24		[1]
Halas St NW	27		[1]
PROJECT TOTAL	94		
BITUMINOUS SUMMARY NOTES:			
[1] QUANTITY ESTIMATED FOR 2 LIFTS			

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

MNDOT STANDARD PLATES


PLATE NO.	DESCRIPTION
7100H	CONCRETE CURB AND GUTTER (DESIGN B AND DESIGN V)
8000K	TEMPORARY CHANNELIZERS (3 SHEETS)
9350B	MAILBOX SUPPORT - SWING-AWAY TYPE

NO	DATE	BY	CKD	APPR	REVISION
	01/06/2022				10:21:25 AM

NAME: P:\21-01-00\CSAH_65_(WestCL-Baugh)\Base\Proposed\OLD WORK\CR65_SEQ.dgn

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ANOKA COUNTY
HIGHWAY DEPT.

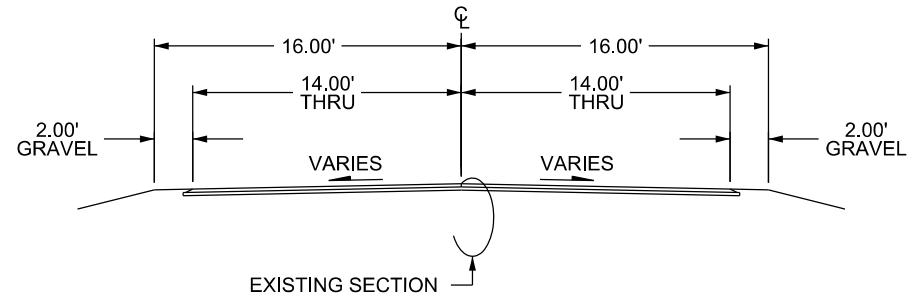
STATE AID PROJECT 002-665-001

STATEMENT OF ESTIMATED QUANTITIES

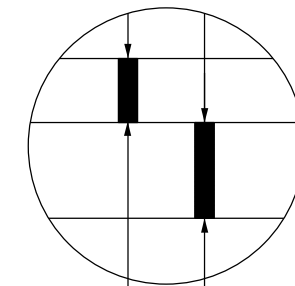
Sheet 2 of 11 Sheets

CSAH 65 - Viking Blvd NW
EXISTING SECTION

10+33.00 - 31+09.00



EXISTING SECTION

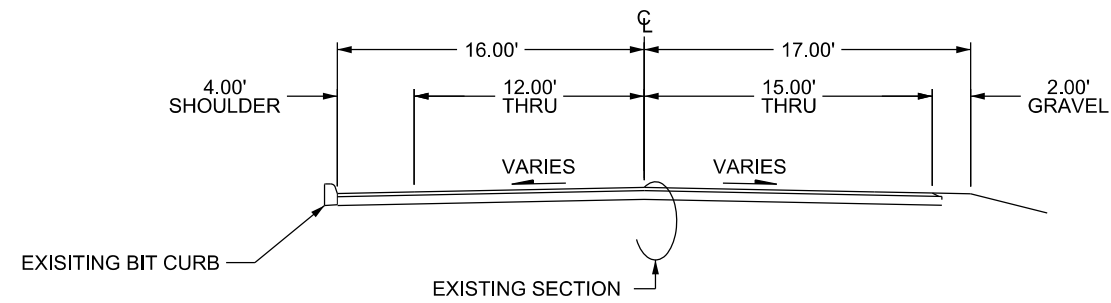


4" EXISTING BITUMINOUS

7" EXISTING RECLAIMED BASE

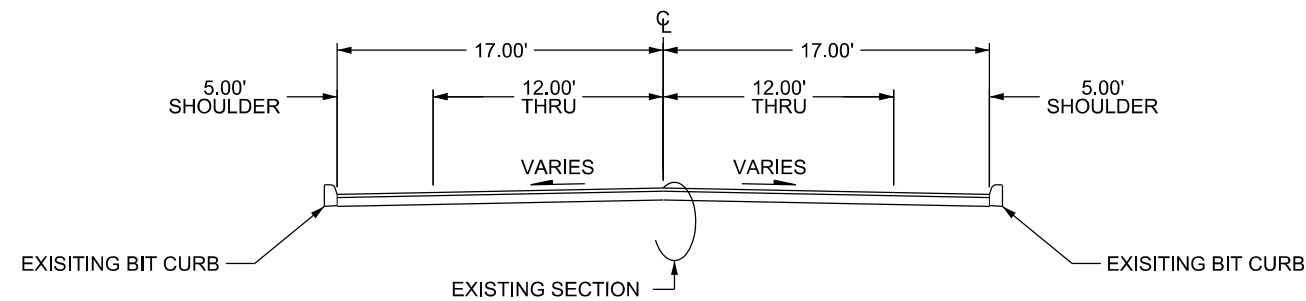
CSAH 65 - Viking Blvd NW
EXISTING SECTION

31+09.00 - 32+83.00




CSAH 65 - Viking Blvd NW
EXISTING SECTION

32+83.00 - 36+03.00



NO	DATE	BY	CKD	APPR	REVISION	TIME
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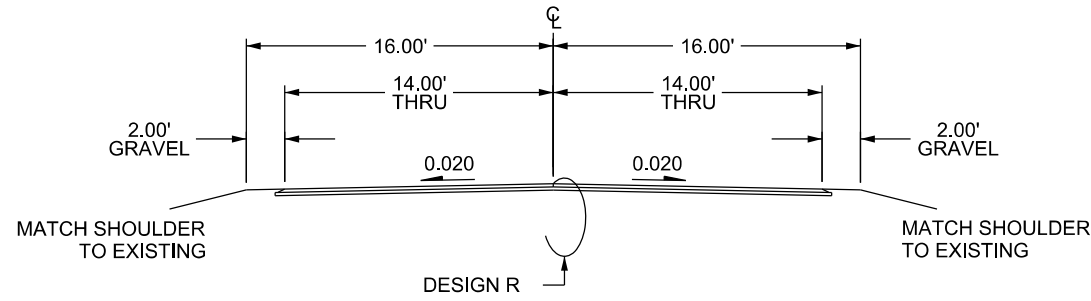


STATE AID PROJECT 002-665-001

TYPICAL SECTIONS
 Sheet 3 of 11 Sheets

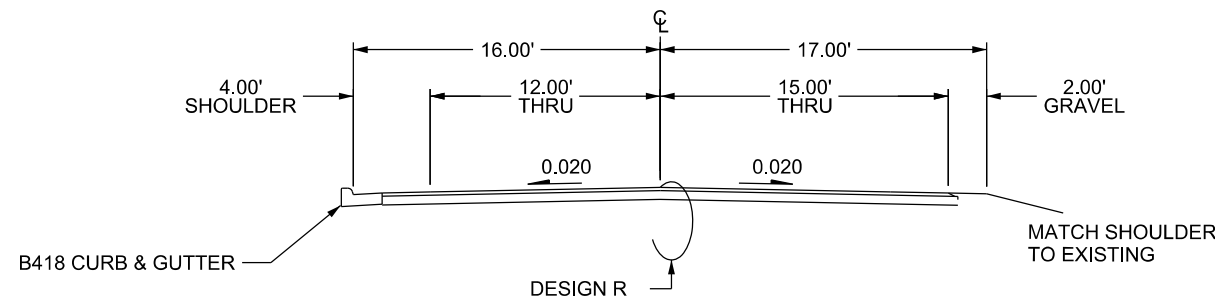
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PROPOSED SECTION

10+33.00 - 31+09.00

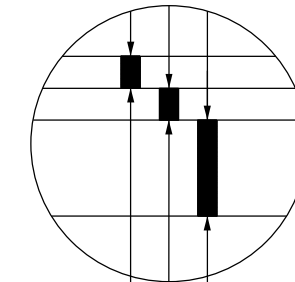


CSAH 65 - Viking Blvd NW
PROPOSED SECTION

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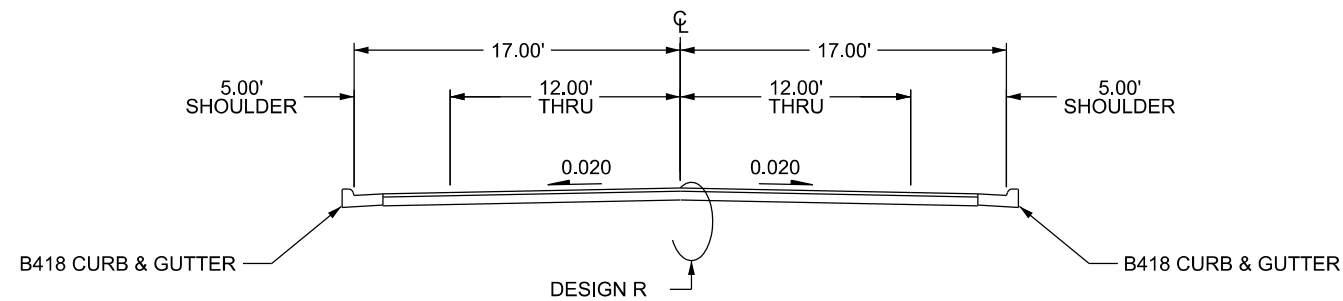
DESIGN R
RECLAIM SECTION



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

CSAH 65 - Viking Blvd NW
PROPOSED SECTION

32+83.00 - 36+03.00



NO	DATE	BY	CKD	APPR	REVISION	TIME
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ANOKA COUNTY
HIGHWAY DEPT.

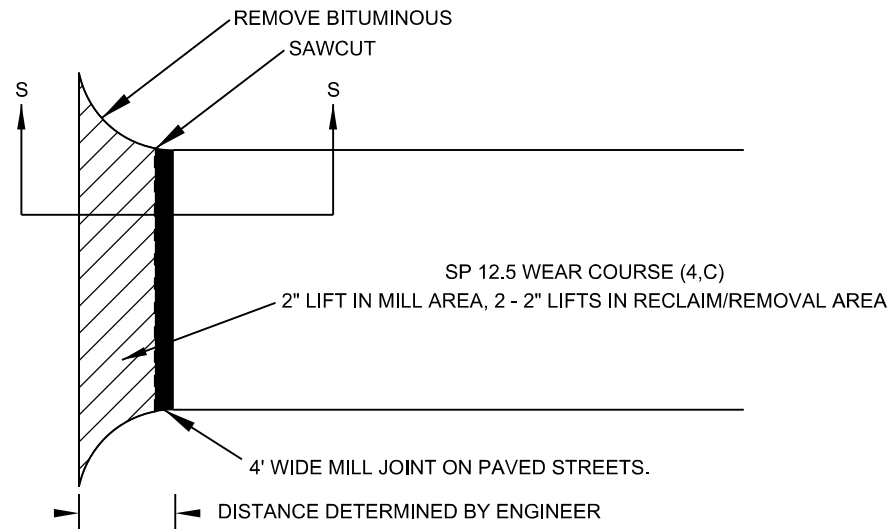
STATE AID PROJECT 002-665-001

TYPICAL SECTIONS
 Sheet 4 of 11 Sheets

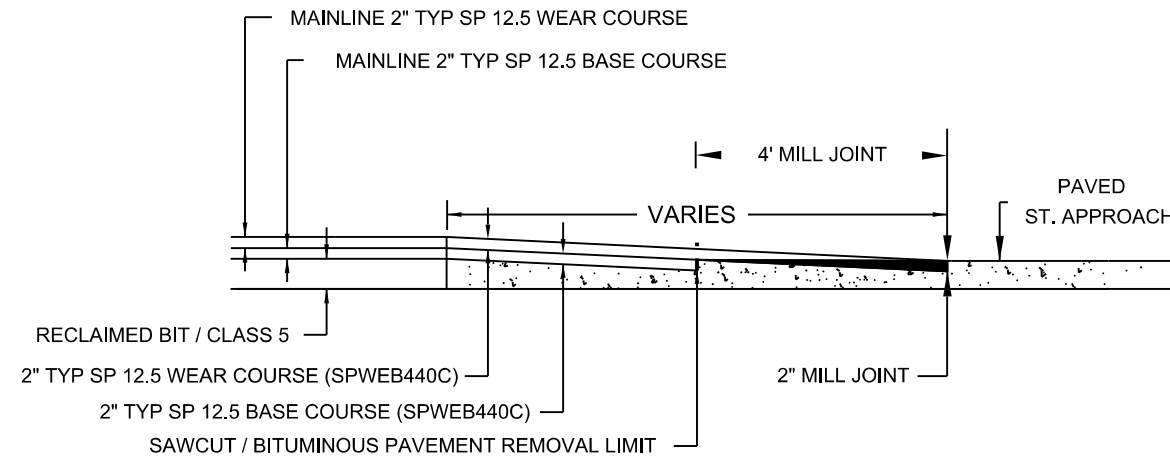
STREET APPROACH DETAIL (RECLAIM)

BITUMINOUS STREET

PLAN VIEW

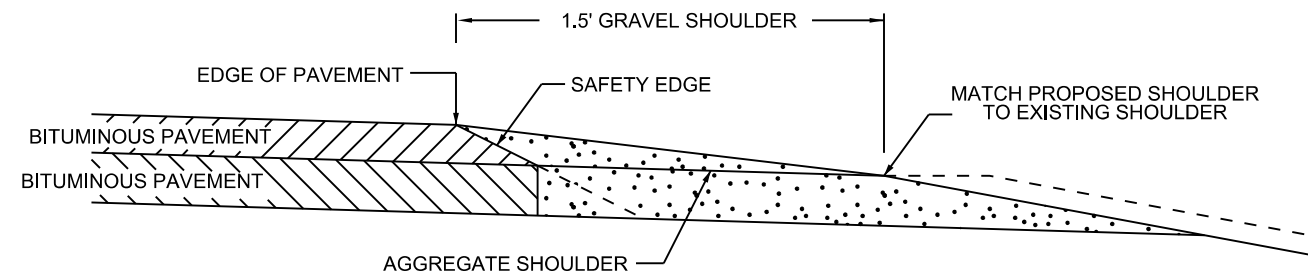


SECTION S - S



SHOULDER DETAIL

BITUMINOUS SAFETY EDGE GRAVEL SHOULDER




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

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

NO	DATE	BY	CKD	APPR	REVISION	01/05/2022	2:04:33 PM
NAME: P:\21-01-00\CSAH_65_(WestCL-Baugh)\Base\Proposed\OLD WORK\CR65_DETAILS.dgn							

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**ANOKA COUNTY
HIGHWAY DEPT.**

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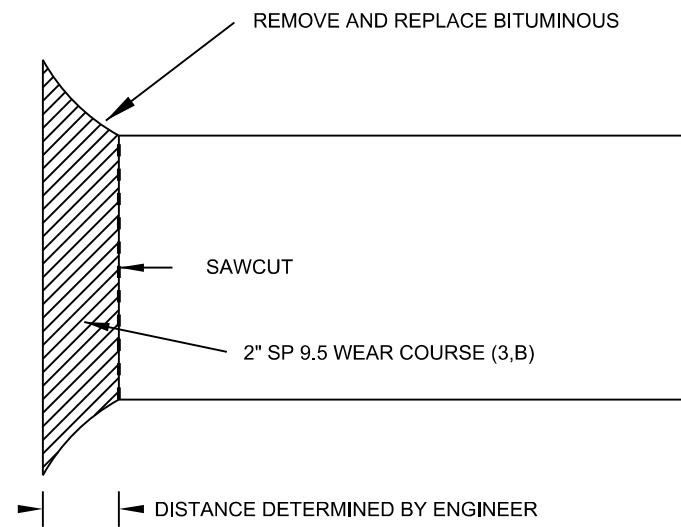
DETAILS

Sheet 5 of 11 Sheets

RECLAIM AREA - DRIVEWAY DETAIL

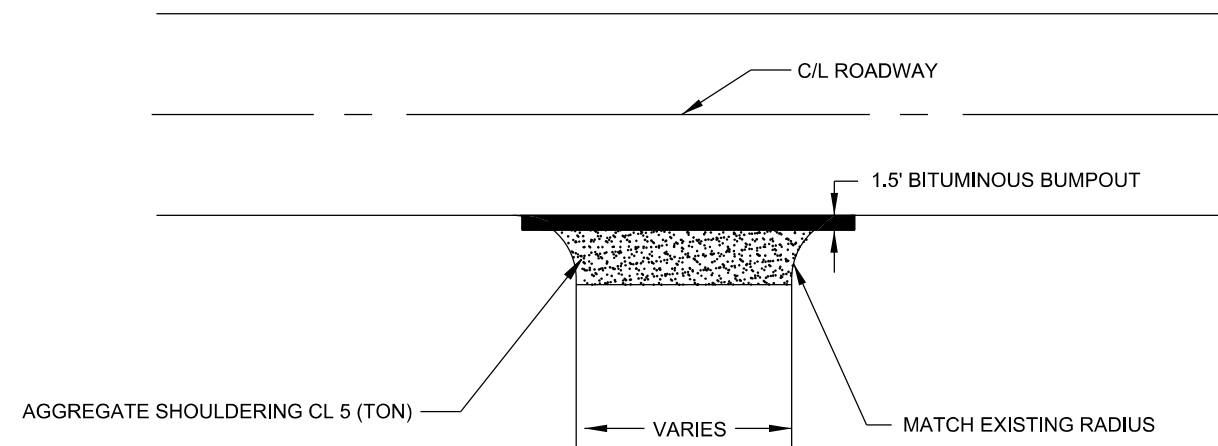
BITUMINOUS

PLAN VIEW



DRIVEWAY DETAIL

GRAVEL / FIELD ENTRANCE




NO	DATE	BY	CKD	APPR	REVISION	

NAME: P:\21-01-00\CSAH_65_(WestCL-Baugh)\Base\Proposed\OLD WORK\CR65_DETAILS.dgn

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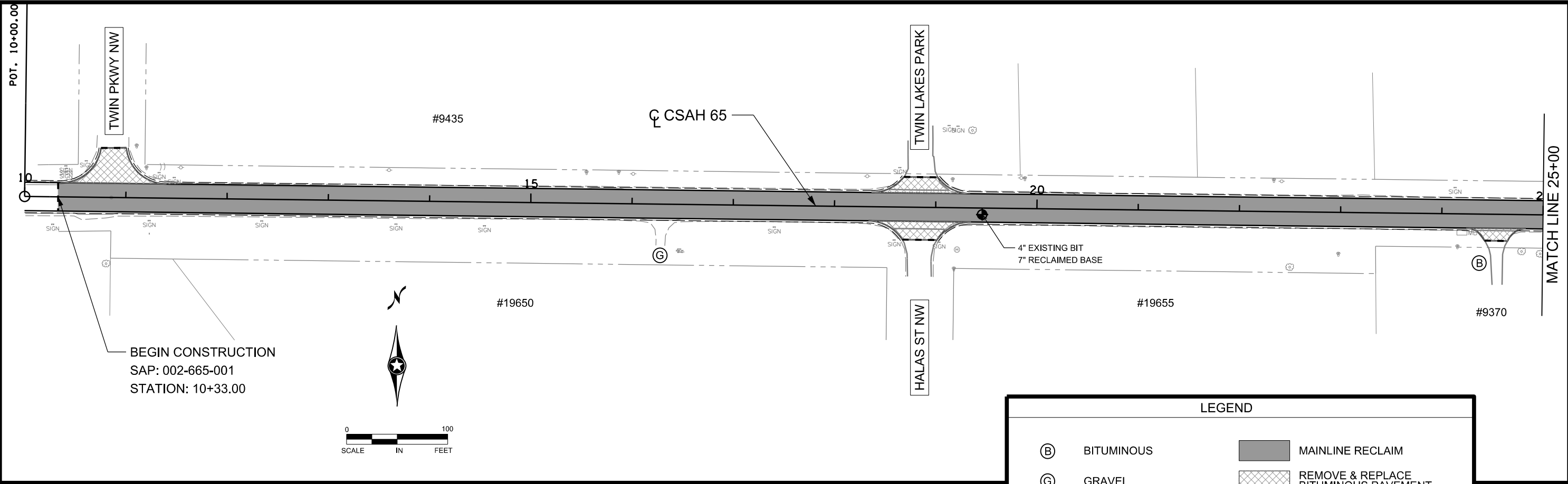
**ANOKA COUNTY
HIGHWAY DEPT.**

STATE AID PROJECT 002-665-001

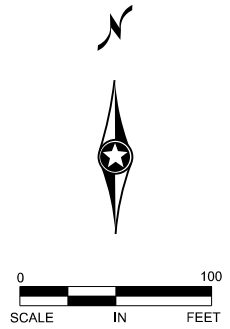
DETAILS

Sheet 6 of 11 Sheets

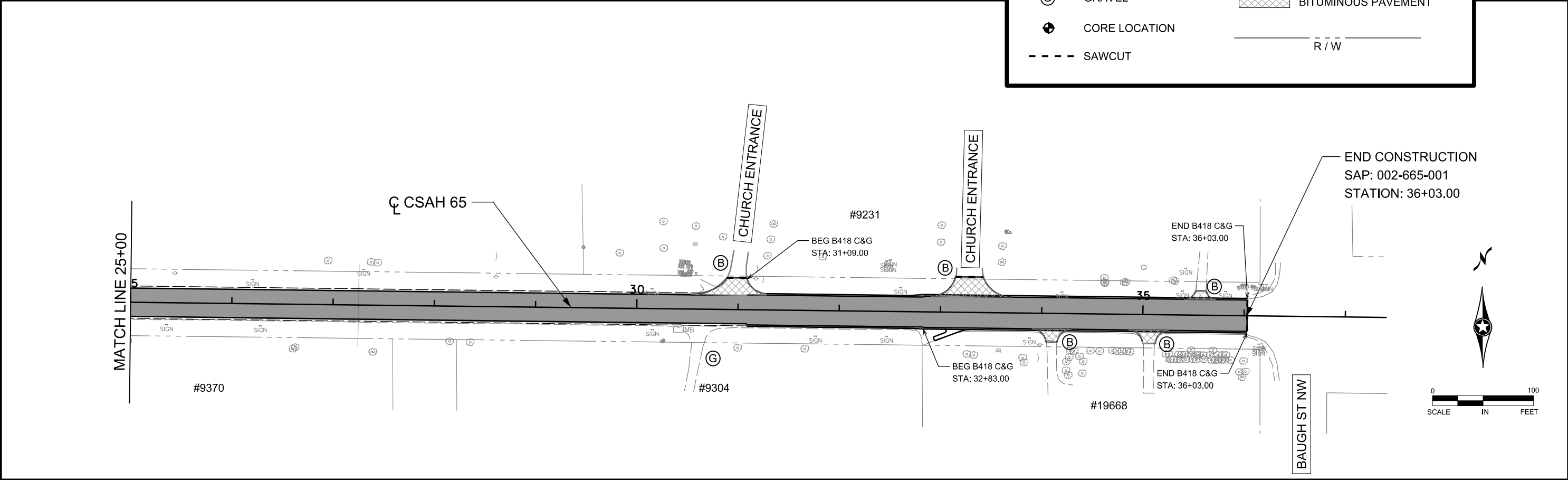
APAnders



BEGIN CONSTRUCTION
 SAP: 002-665-001
 STATION: 10+33.00



LEGEND			
(B)	BITUMINOUS	[Solid Grey Box]	MAINLINE RECLAIM
(G)	GRAVEL	[Cross-hatched Box]	REMOVE & REPLACE BITUMINOUS PAVEMENT
(C)	CORE LOCATION	[Dashed Line]	R / W
- - -	SAWCUT		



NO	DATE	BY	CKD	APPR	REVISION	
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NAME: P:\21-01-00\CSAH_65_(WestCL-Baugh)\Base\Proposed\OLD WORK\CR65_CP1.dgn

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ANOKA COUNTY
HIGHWAY DEPT.

STATE AID PROJECT 002-665-001

CONSTRUCTION PLAN
 STA 10+33 TO 36+03
 Sheet 7 of 11 Sheets

**PERMANENT PAVEMENT MARKING PLAN
NOTES AND GUIDELINES**

GENERAL INFORMATION:

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

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

A TOLERANCE OF 1/4 INCH UNDER OR 1/4 INCH OVER THE SPECIFIED WIDTH WILL BE ALLOWED FOR STRIPING PROVIDED THE VARIATION IS GRADUAL AND DOES NOT DETRACT FROM THE GENERAL APPEARANCE. BROKEN LINE SEGMENTS MAY VARY UP TO ONE-HALF FOOT FROM THE SPECIFIED LENGTHS PROVIDED THE OVER AND UNDER VARIATIONS ARE REASONABLY COMPENSATORY. ALIGNMENT DEVIATIONS FROM THE CONTROL GUIDE SHALL NOT EXCEED 1 INCH. MATERIAL SHALL NOT BE APPLIED OVER LONGITUDINAL JOINTS. ESTABLISHMENT OF APPLICATION TOLERANCES SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COMPLY AS CLOSELY AS PRACTICABLE WITH THE PLANNED DIMENSIONS.

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 BEADS SHALL BE APPLIED IMMEDIATELY AFTER APPLICATION OF THE MULTI COMP LINE TO PROVIDE AN IMMEDIATE NO-TRACK SYSTEM.

A MULTI COMP 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.

PAINT:

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

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

EXCEPT WHEN USED AS A TEMPORARY MARKING, PAVEMENT MARKINGS SHALL ONLY BE APPLIED IN SEASONABLE WEATHER WHEN AIR TEMPERATURE IS 50 DEGREES FARHENHEIT OR HIGHER AND SHALL NOT BE APPLIED WHEN THE WIND OR OTHER CONDITIONS CAUSE A 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		
ITEM	UNIT	TOTAL QUANTITY
4" SOLID LINE WHITE - MULTI COMP	LIN FT	5240
1 4" BROKEN LINE YELLOW - MULTICOMP	LIN FT	440
4" SOLID LINE YELLOW - MULTICOMP	LIN FT	570
4" SOLID DOUBLE LINE YELLOW - MULTICOMP	LIN FT	400
24" SOLID LINE WHITE - THERMORPLASTIC (PMS*)	LIN FT	24
3' X 6' ZEBRA CROSSWALK - PREFORMED THERMOPLASTIC	SQ FT	90

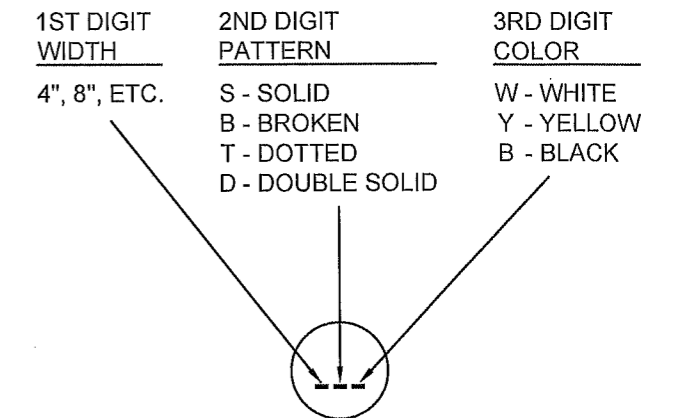
1 10' STRIPE, 40' GAP
* PAVEMENT MARKING SPECIAL

SYMBOLS & MATERIALS LEGEND

- CROSSWALK BLOCK WHITE - POLY PREFORM
- ↩ PAVEMENT MESSAGE (LEFT ARROW) POLY PREFORM

STRIPING KEY

- --- CIRCLE - MULTI COMP
- △ --- TRIANGLE - PAINT
- --- SQUARE - POLY PREFORM THERMOPLASTIC
- ⬠ --- PENTAGON - REMOVABLE PREFORMED PLASTIC MARKING



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

- — — BROKEN LINE - 50' CYCLE (10' LINE, 40' GAP)
- - - - DOTTED LINE - 15' CYCLE (3' LINE, 12' GAP) UNLESS SHOWN OTHERWISE IN THE PLAN

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\21-01-00\CSAH_65_(WestCL-Baugh)\Base\TrafficPerm Pvrnt Mrkg Guide Notes 2021.dwg

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

PRINT NAME: SEAN R. THIEL DATE: 1/5/21
SIGNATURE: *Sean R. Thiel* LICENSE NO. 45129

DRAWN BY: TMV DATE: 10/06/21
DESIGN BY: _____ DATE: _____
CHECKED BY: SRT DATE: 12/17/21



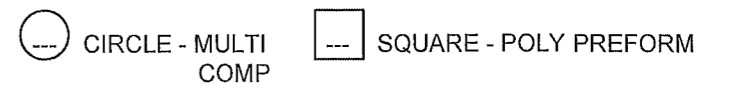
**ANOKA COUNTY
HIGHWAY DEPT.**

SAP 002-665-001

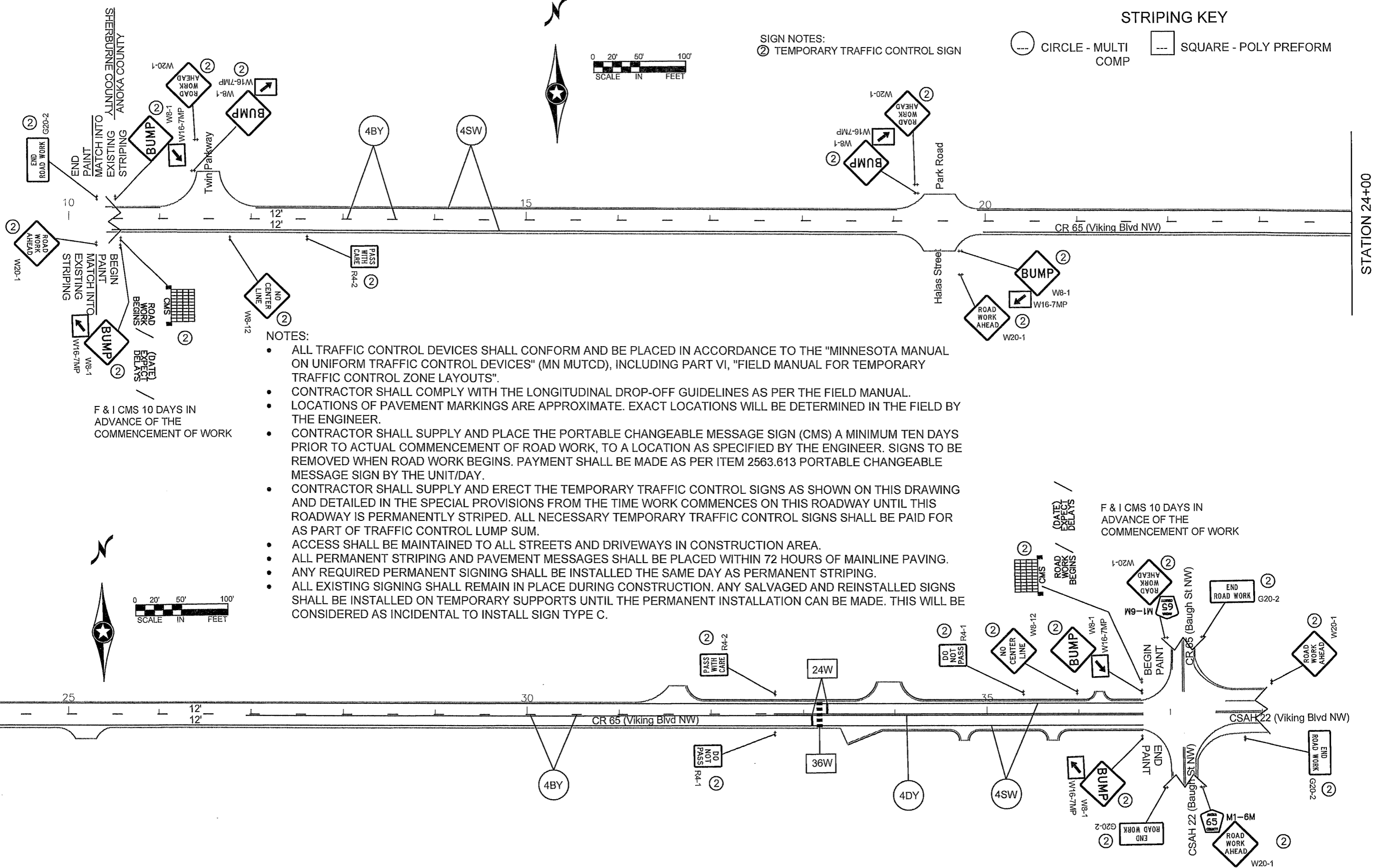
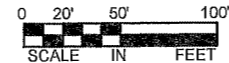
PERMANENT MARKING
TABULATION

SHEET 8 OF 11 SHEETS

STRIPING KEY



SIGN NOTES:
 ② TEMPORARY TRAFFIC CONTROL SIGN

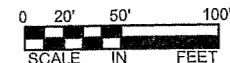


NOTES:

- 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.
- LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR SHALL SUPPLY AND PLACE THE PORTABLE CHANGEABLE MESSAGE SIGN (CMS) 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.
- 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.
- ALL PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.
- ANY REQUIRED PERMANENT SIGNING SHALL BE INSTALLED THE SAME DAY AS PERMANENT STRIPING.
- ALL EXISTING SIGNING SHALL REMAIN IN PLACE DURING CONSTRUCTION. ANY SALVAGED AND REINSTALLED SIGNS SHALL BE INSTALLED ON TEMPORARY SUPPORTS UNTIL THE PERMANENT INSTALLATION CAN BE MADE. THIS WILL BE CONSIDERED AS INCIDENTAL TO INSTALL SIGN TYPE C.

F & I CMS 10 DAYS IN ADVANCE OF THE COMMENCEMENT OF WORK

F & I CMS 10 DAYS IN ADVANCE OF THE COMMENCEMENT OF WORK



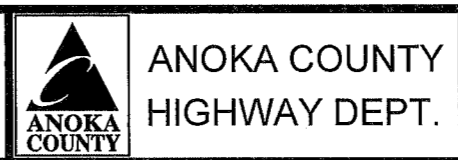
NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\21-01-00\CSAH_65_(WestCL-Baugh)\Base\Traffic\Temp Sign Perm Stripe.dwg

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

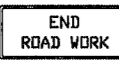





PRINT NAME: SEAN R. THIEL DATE: 1/4/21
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





DRAWN BY: TMV DATE: 10/06/21
 DESIGN BY: DATE: _____
 CHECKED BY: SRT DATE: 12/17/21



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TEMPORARY SIGNING
 PERMANENT STRIPING
 SHEET 9 OF 11 SHEETS

TEMPORARY TRAFFIC CONTROL SIGNS			
M.U.T.C.D. CODE	SIZE	INSERT	QUANTITY
W8-12	48" x 48"		2
R4-1	24" x 30"		2
R4-2	24" x 30"		2
G20-2	36" x 18"		4
W8-1	48" x 48"		7
W16-7P	30" x 18"		7
W3-4	48" x 48"		AS NEEDED
W8-1	48" x 48"		AS NEEDED
W8-8	48" x 48"		AS NEEDED

TEMPORARY TRAFFIC CONTROL SIGNS			
M.U.T.C.D. CODE	SIZE	INSERT	QUANTITY
W8-9	48" x 48"		AS NEEDED
W8-11	48" x 48"		AS NEEDED
W8-23	48" x 48"		AS NEEDED
M1-6M	24" x 24"	 M1-6M	2
W20-1	48" x 48"		AS NEEDED (ESTIMATED 7)
W20-4	48" x 48"		AS NEEDED
W20-7	48" x 48"		AS NEEDED
REFLECTORIZED REBOUNDABLE DRUM			AS NEEDED (ESTIMATED 10)
CMS sign to be placed a minimum of ten days prior to actual commencement of road work. Signs to be removed when road work begins.			2 AT 10 DAYS EA

CHANGEABLE MESSAGE BOARD - MESSAGE SEQUENCE LAYOUT

		R	O	A	D		
		W	O	R	K		
	B	E	G	I	N	S	

	<	D	A	T	E	>	
	E	X	P	E	C	T	
	D	E	L	A	Y	S	

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

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\21-01-00\CSAH_65_(WestCL-Baugh)\Base\Traffic\Temp Sign Perm Stripe.dwg

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PRINT NAME: SEAN R. THIEL DATE: 1/4/21

SIGNATURE: *Sean R. Thiel* LICENSE NO. 45129

DRAWN BY: TMV DATE: 10/08/21

DESIGN BY: DATE: _____

CHECKED BY: SRT DATE: 12/17/21



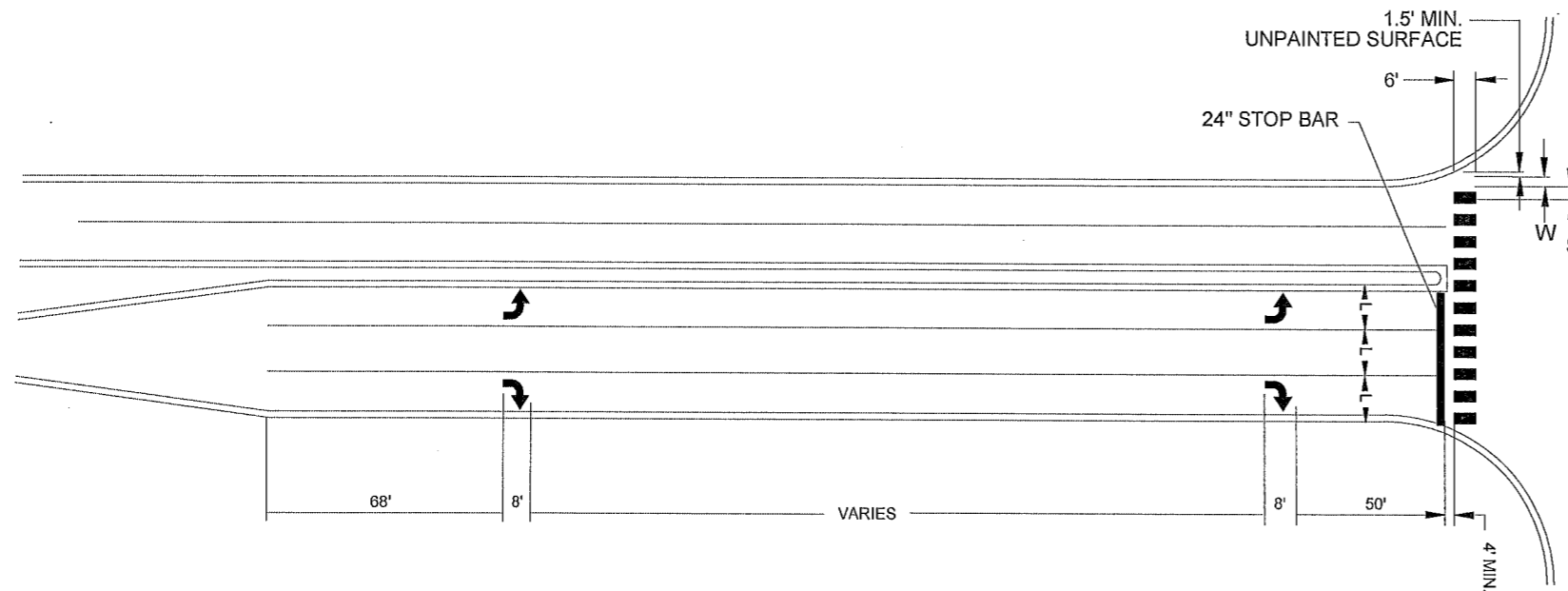
ANOKA COUNTY
HIGHWAY DEPT.

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TEMPORARY SIGNING
QUANTITIES

SHEET 10 OF 11 SHEETS

MARKINGS FOR PEDESTRIAN CROSSWALKS



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

NOTES: CROSSWALKS:

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

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\21-01-00\CSAH_65_(WestCL-Baugh)\Base\Traffic\Sign&Stripe_Details 2019.dwg

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DRAWN BY TMV DATE 10/08/21

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CHECKED BY SRT DATE 12/17/21



ANOKA COUNTY
HIGHWAY DEPT.

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SIGNING & STRIPING
DETAILS

SHEET 11 OF 11 SHEETS