

MINNESOTA DEPARTMENT OF TRANSPORTATION ANOKA COUNTY

CONSTRUCTION PLAN FOR _____ BITUMINOUS SURFACING AND BITUMINOUS RECLAMATION

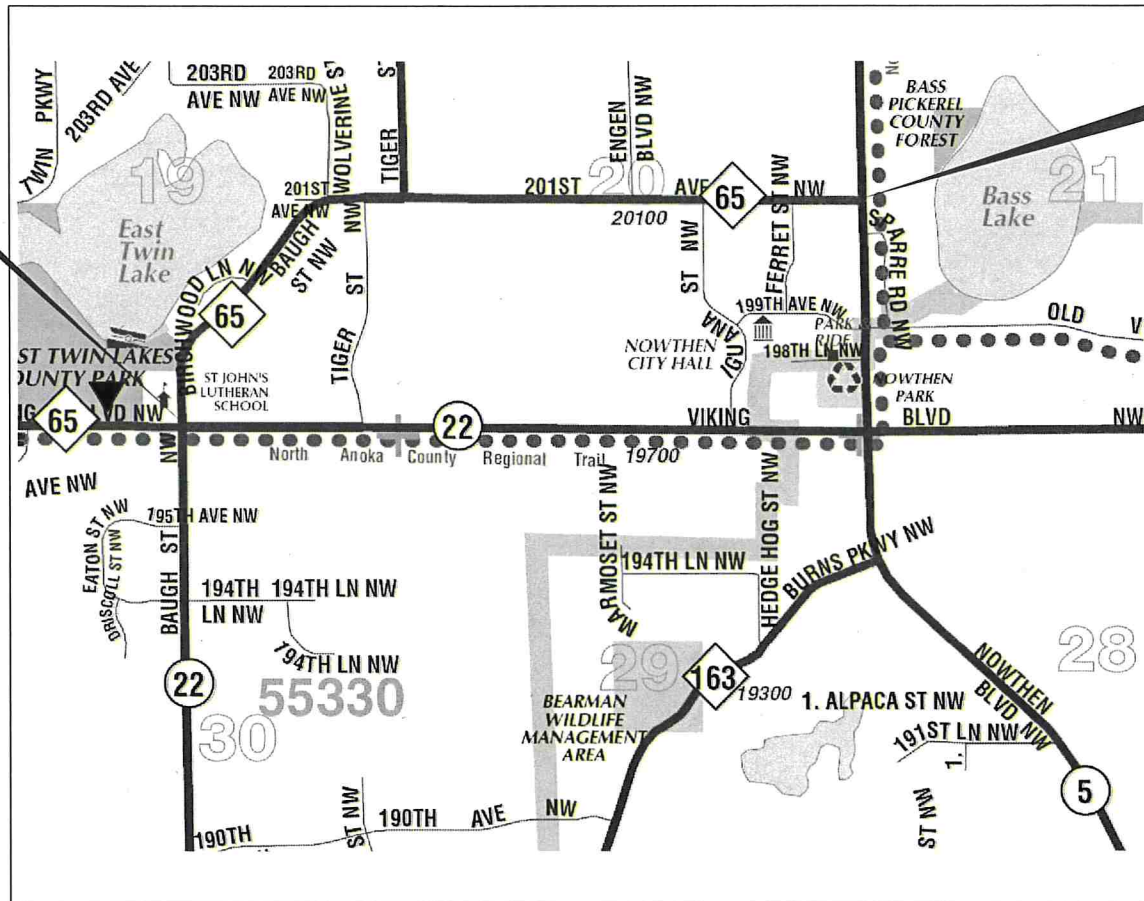
LOCATED ON CR 65 BETWEEN CSAH 22 AND CSAH 5

CR #65 (BAUGH ST NW)

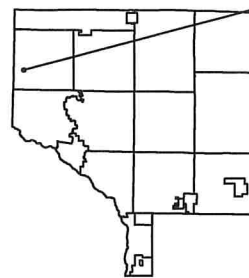
GROSS LENGTH	9344.00 FEET	1.770 MILES
EXCEPTIONS-LENGTH	0.00 FEET	0.000 MILES
NET LENGTH	9344.00 FEET	1.770 MILES

BEGIN CP 20-12-65
CR 65, STA: 10+00.00

END CP 20-12-65
CR 65, STA: 103+44.00



PROJECT LOCATION



CITY OF NOWTHEN
ANOKA COUNTY
MN/DOT TRANSPORTATION DISTRICT - METRO
SECTION 19, 20
TOWNSHIP 33 NORTH
RANGE 25 WEST

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 DEVICES" (MNMUTCD), AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."

THIS PLAN CONTAINS 17 SHEETS

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3	TYPICAL SECTIONS
4 - 5	DETAILS
6	TABULATIONS
7 - 10	CONSTRUCTION PLAN
11 - 17	SIGNING AND STRIPING PLANS

DESIGN DESIGNATION (CR 65)

ESAL 20	181,585	FUNCTIONAL CLASSIFICATION	A MINOR AUGMENTOR
R VALUE	50	NO. OF TRAFFIC LANES	<u>2</u> NO. OF PARKING LANES <u>0</u>
ADT (2020)	710	DESIGN SPEED	<u>55</u> MPH
PROJ. ADT (2040)	775	STOPPING SIGHT DISTANCE BASED ON:	
PROJ. HCADT (2040)	45	3.5'	2.0'
SOIL FACTOR	N/A	DESIGN SPEED NOT ACHIEVED AT :	
		STA. <u>10+00</u> TO STA. <u>51+15</u>	MPH <u>45</u>
		TON DESIGN	

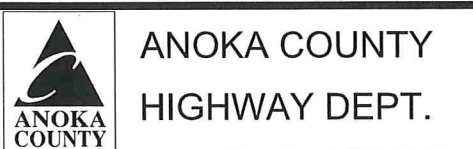
Approved ANOKA COUNTY ENGINEER 3-17-20

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\20-01-00\CR_65_(CSAH22-CSAH5)\BaselProposed\Proposed.dgn

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
PRINT NAME: GERALD J. AUGER JR.
SIGNATURE:
DATE: 03-17-2020 LICENSE NO. 26511

DRAWN BY: APA DATE: 03/17/2020
DESIGN BY: SRK DATE: 03/17/2020
CHECKED BY: CSO DATE: 03/17/2020



COUNTY PROJECT 20-12-65

TITLE SHEET
Sheet 1 of 17 Sheets

STATEMENT OF ESTIMATED QUANTITIES

NOTES	ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL PROJECT QUANTITIES ESTIMATED
	2021.501	MOBILIZATION	LUMP SUM	1
1	2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	25
1	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	1140
	2104.511	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	17
	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	493
2	2123.510	MOTOR GRADER	HOUR	16
	2130.523	WATER	MGAL	186
3	2211.509	AGGREGATE BASE CLASS 5	TON	477
	2215.504	STABILIZED FULL DEPTH RECLAMATION	SQ YD	26598
4	2215.507	HAUL FULL DEPTH RECLAMATION (LV)	CU YD	400
15	2221.509	SHOULDER BASE AGGREGATE CLASS 5	TON	579
14	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	251
	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GAL	1387
1,5	2360.504	TYPE SP 9.5 WEARING COURSE MIXTURE (3,B)	TON	39
6	2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (4,C)- ST. APPROACHES	TON	338
	2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (4,C)	TON	6729
	2531.504	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	25
11	2540.602	MAIL BOX SUPPORT	EACH	23
7	2563.601	TRAFFIC CONTROL	LUMP SUM	1
8	2563.613	PORTABLE CHANGEABLE MESSAGE SIGN	UNIT DAY	20
12	2574.507	COMMON TOPSOIL BORROW (LV)	CU YD	30
13	2575.504	EROSION CONTROL BLANKETS CATEGORY 0	SQ YD	140
9	2581.503	REMOVABLE PREFORMED PAVEMENT MARKING TAPE	LIN FT	374
10	2582.503	4" SOLID LINE MULTI COMP	LIN FT	19896
10	2582.503	4" BROKEN LINE MULTI COMP	LIN FT	1030
10	2582.503	4" DOUBLE SOLID LINE MULTI COMP	LIN FT	4123

CONSTRUCTION NOTES

1	CONTRACTOR IS RESPONSIBLE FOR CONTACTING PROPERTY OWNER 48 HOURS BEFORE STARTING OPERATION.
2	ITEM USED TO MOVE EXCESS RECLAIM MATERIAL AT THE RECLAIM AREA LIMITS TO CREATE A SMOOTH TRANSITION BETWEEN THE PROPOSED AND EXISTING PAVEMENT.
3	GRAVEL BASE FOR CONCRETE / BITUMINOUS DRIVEWAYS, AND BITUMINOUS STREET APPROACHES. 200 TON ESTIMATED FOR SUPERELEVATION/GRADE CORRECTION AREA.
4	MATERIAL SHALL BE HAULED AND USED FOR PROFILE CORRECTION AREAS. ITEM INCLUDES PLACEMENT, SHAPING, COMPACTION, AND MAINTENANCE OF MATERIAL. EXCESS MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
5	ITEM FOR BITUMINOUS DRIVEWAYS. DRIVEWAYS SHALL BE PAVED AFTER MAINLINE PAVING, AND BEFORE FINAL STRIPING.
6	ITEM FOR STREET APPROACHES. STREET APPROACHES SHALL BE PAVED AFTER MAINLINE PAVING, AND BEFORE FINAL STRIPING.
7	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 PAVEMENT MARKINGS ARE NOT PRESENT.
8	2 MESSAGE BOARDS, ONE ON EACH END OF PROJECT, WILL BE INSTALLED 10 DAYS PRIOR TO ANY CONSTRUCTION; REFERENCE STRIPING PLAN FOR DETAILS.
9	CENTERLINE AND LANE DESIGNATION SKIPS TO BE APPLIED AS SOON AS POSSIBLE ON EACH NEW LIFT OF PAVEMENT; SKIPS MUST BE INPLACE BEFORE THE CONTRACTOR LEAVES FOR THE DAY. CONTRACTOR IS TO REMOVE PRIOR TO FINAL PAINT STRIPING.
10	FINAL STRIPING SHALL BE INSTALLED WITHIN 72 HOURS OF COMPLETION OF MAINLINE WEAR COURSE PAVING.
11	MAILBOXES SHALL BE INSTALLED AT THE EXISTING MAILBOX LOCATION OR AS DIRECTED BY THE LOCAL POSTAL AUTHORITY. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE LOCAL POSTAL AUTHORITY. MAILBOX REMOVAL AND ALL MATERIALS NECESSARY FOR INSTALLATION ARE INCIDENTAL TO THIS ITEM.
12	ITEM USED AT ENGINEER'S DISCRETION FOR RESTORATION OF DISTURBED AREAS ALONG DRIVEWAYS, AND STREET APPROACHES.
13	TYPE 1 FERTILIZER AND TYPE 25-121 SEED ARE INCIDENTAL TO THIS ITEM.
14	ITEM INCLUDES 2" MILL (DEPTH) AT BEGINNING AND END OF PROJECT, AND ALL PAVED STREET APPROACHES. SEE DETAILS FOR DIMENSIONS.
15	ITEM INCLUDES 7 TONS FOR EACH GRAVEL ENTRANCE AND GRAVEL STREET APPROACH.

BASIS OF PLANNED QUANTITIES

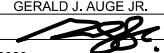
2357	BITUMINOUS MATERIAL FOR TACK COAT	0.05 GAL / SQ YD
2211	AGGREGATE BASE CLASS 5	1.8 TONS / CU YD
2360	ALL BITUMINOUS PAVEMENT	115 LBS / SQ YD / IN THICKNESS
2581	REMOVABLE PREFORM PAVEMENT MARKING TAPE	2' AT 50' INTERVALS
2575	SEED MISTURE 25-121	61 LBS. / ACRE
2574	FERTILIZER TYPE 3	350 LBS. / ACRE

MNDOT STANDARD PLATES

PLATE NUMBER	DESCRIPTION
8000J	CHANNELIZERS (3 SHEETS)
9350A	MAILBOX SUPPORT (SWING-AWAY TYPE)

NO	DATE	BY	CKD	APPR	REVISION
	03/17/2020				12:21:51 PM

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**ANOKA COUNTY
HIGHWAY DEPT.**

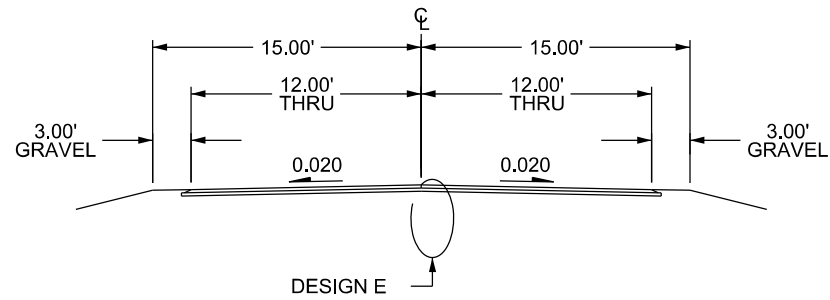
COUNTY PROJECT 20-12-65

STATEMENT OF ESTIMATED QUANTITIES

Sheet 2 of 17 Sheets

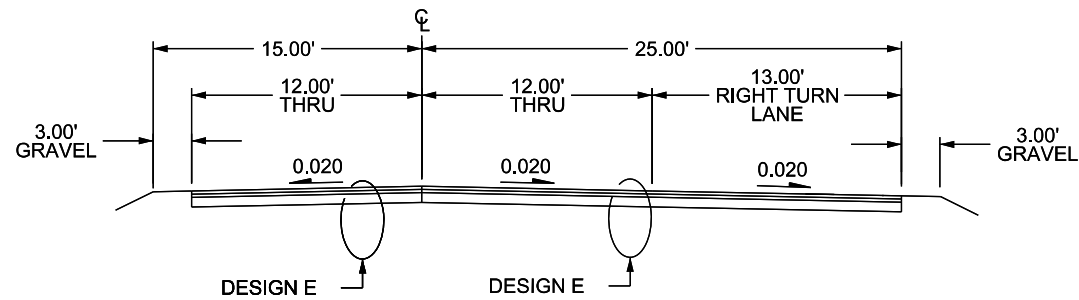
CR 65 - BAUGH ST NW

(EXISTING) SECTION
 10+00.00 - 91+00.00
 95+50 - 103+44

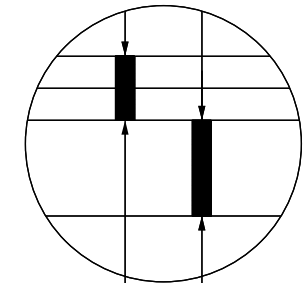


CR 65 - BAUGH ST NW

RIGHT TURN LANE
 (EXISTING) SECTION
 91+00.00 - 95+50.00



**DESIGN E
 EXISTING SECTION**

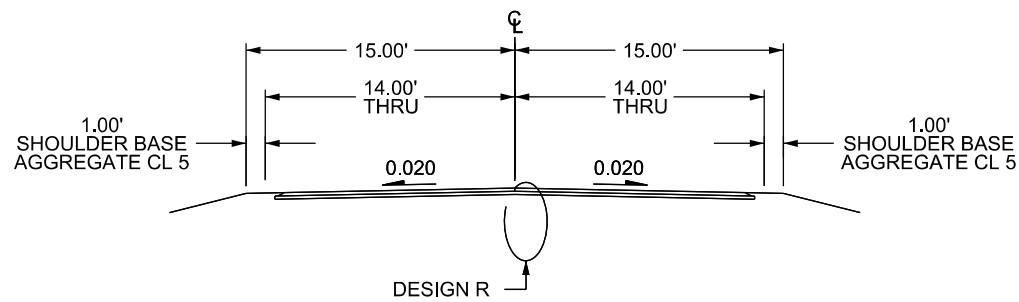


3.5" EXISTING BITUMINOUS

5" AGGREGATE (CL 5)

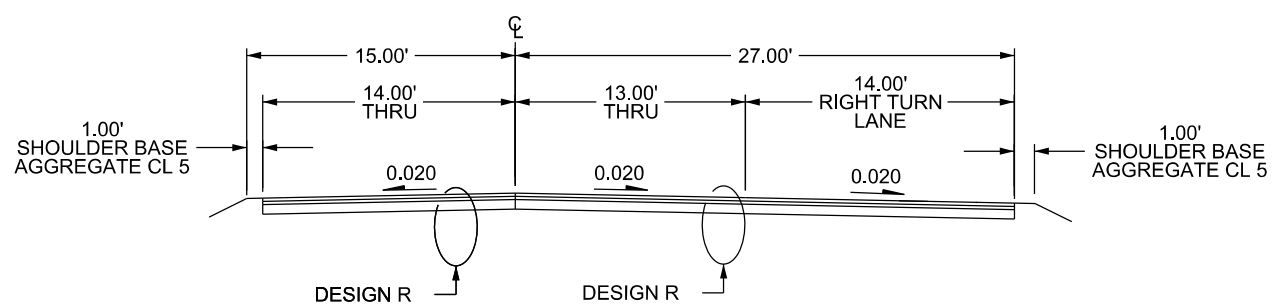
CR 65 - BAUGH ST NW

(PROPOSED) SECTION
 10+00.00 - 91+00.00
 95+50.00 - 103+44.00

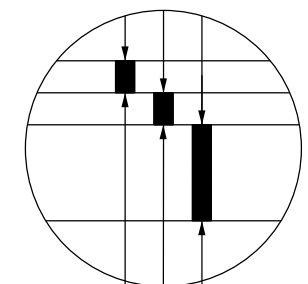


CR 65 - BAUGH ST NW

RIGHT TURN LANE @ FERRET ST
 (PROPOSED) SECTION
 91+00.00 - 95+50.00



**DESIGN R
 RECLAIM SECTION**



2.0" BITUMINOUS WEAR (SPWEB440C)

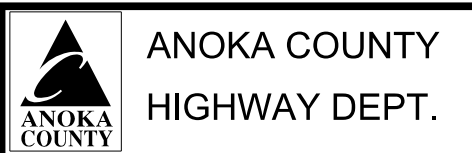
2.0" BITUMINOUS WEAR (SPWEB440C)

RECLAIMED BITUMINOUS

NO	DATE	BY	CKD	APPR	REVISION	03/17/2020	12:21:57 PM
NAME: P:\20-01-00\CR_65_(CSAH22-CSAH5)\Base\Proposed\Proposed.dgn							

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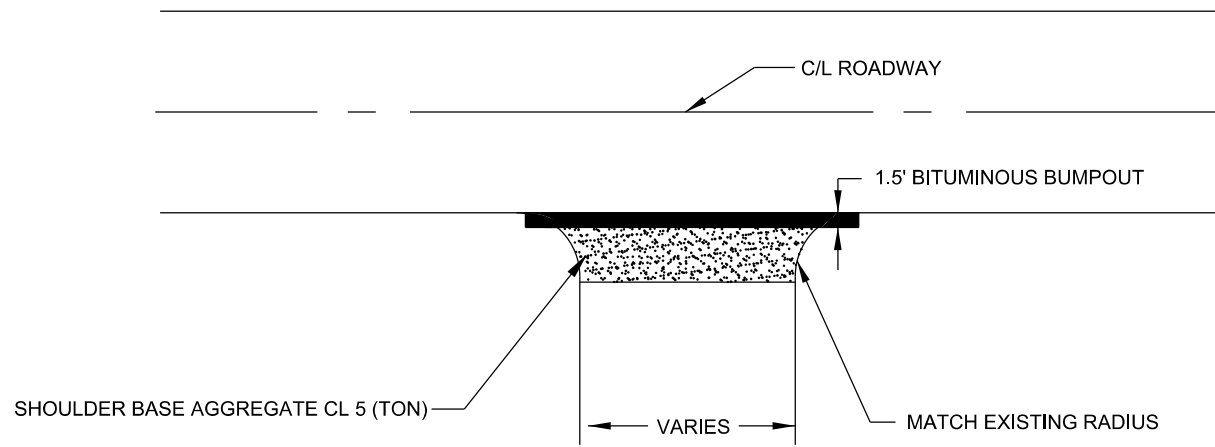


COUNTY PROJECT 20-12-65

TYPICAL SECTIONS
 Sheet 3 of 17 Sheets

DRIVEWAY DETAIL

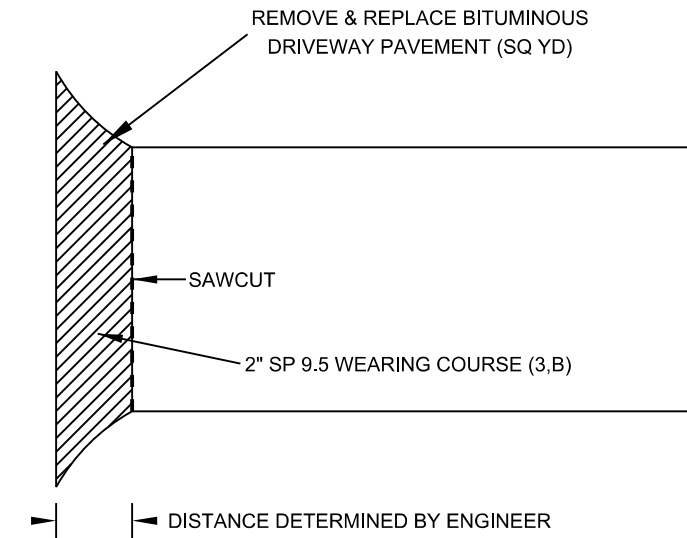
GRAVEL / FIELD ENTRANCE



RECLAIM AREA - DRIVEWAY DETAIL

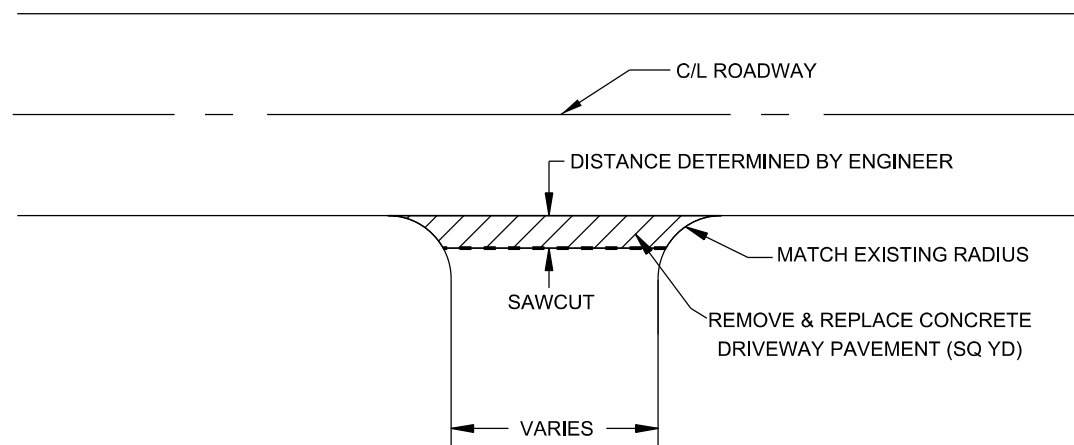
BITUMINOUS DRIVEWAY

PLAN VIEW



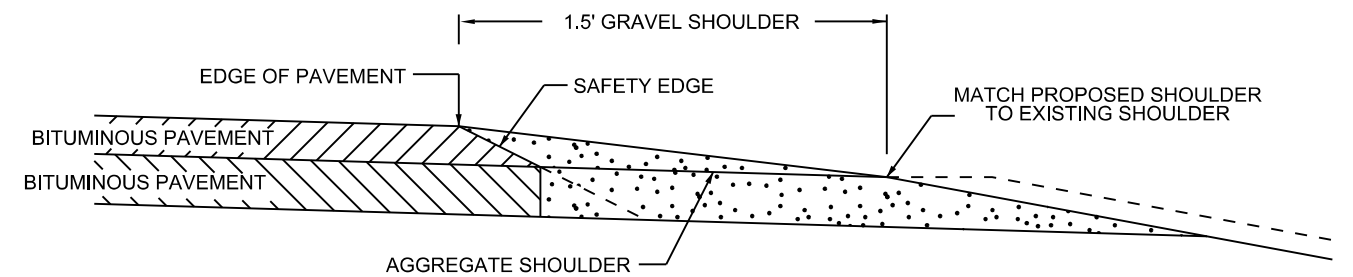
DRIVEWAY DETAIL

CONCRETE DRIVEWAY



SHOULDER DETAIL

BITUMINOUS SAFETY EDGE
GRAVEL SHOULDER



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

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

NO	DATE	BY	CHKD	APPR	REVISION	DATE	TIME
						03/17/2020	12:21:58 PM

NAME: P:\20-01-00\CR_65_(CSAH22-CSAH5)\Base\Proposed\Proposed.dgn

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SIGNATURE: *[Signature]*

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ANOKA COUNTY
HIGHWAY DEPT.

COUNTY PROJECT **20-12-65**

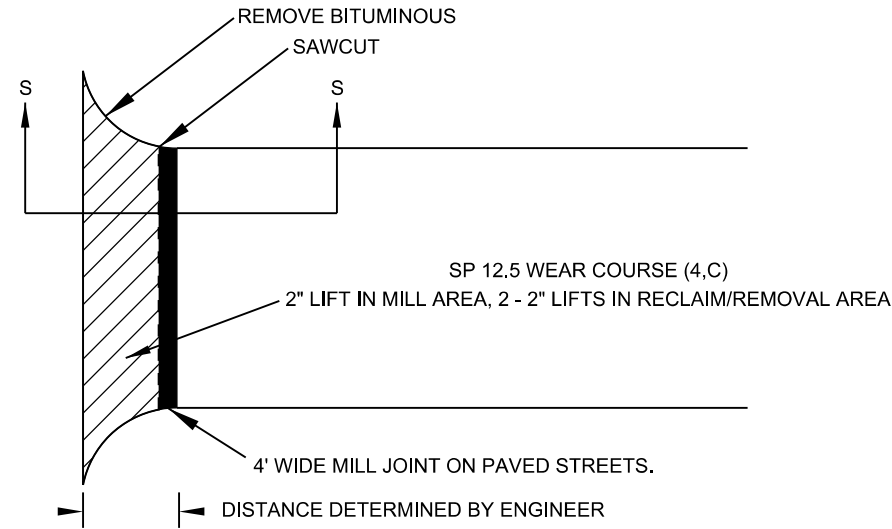
DETAILS

Sheet **4** of **17** Sheets

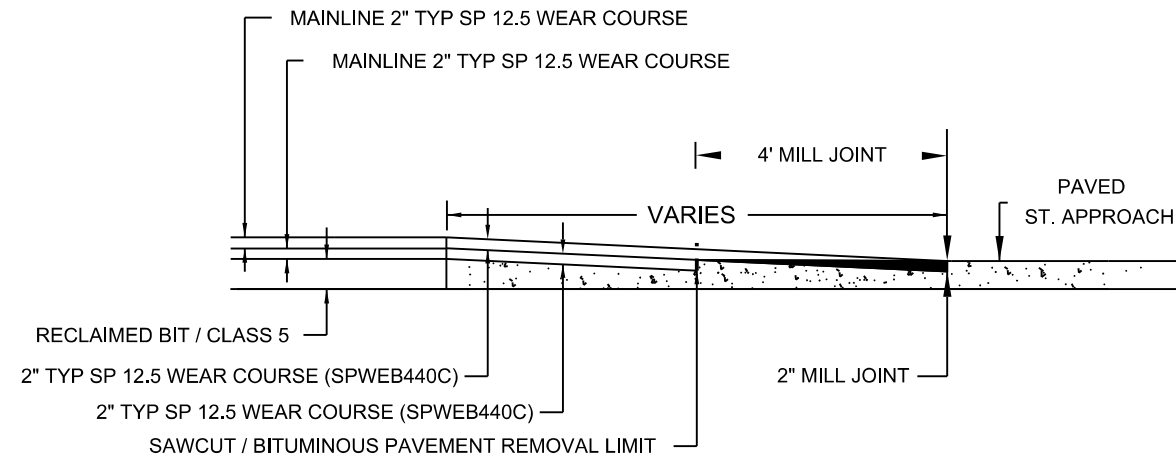
STREET APPROACH DETAIL (RECLAIM)

BITUMINOUS STREET

PLAN VIEW

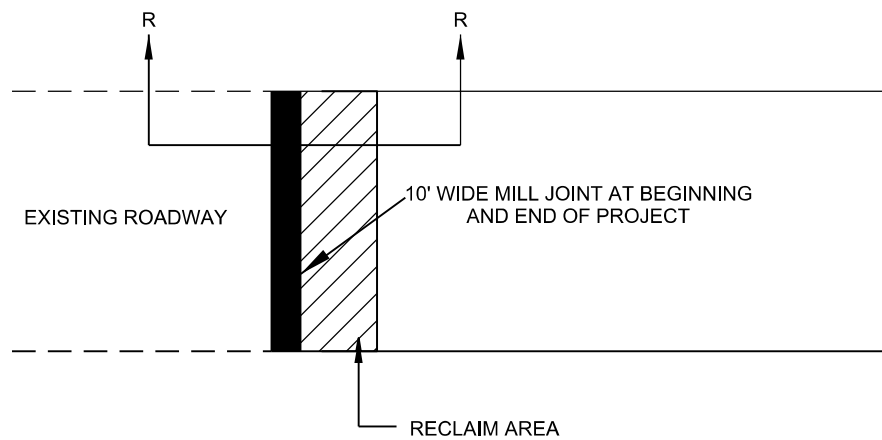


SECTION S - S

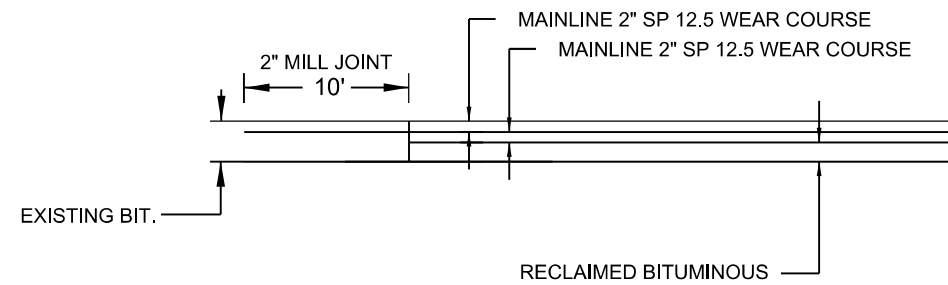


MAINLINE JOINT DETAIL (RECLAIM)

PLAN VIEW



SECTION R - R



NO	DATE	BY	CKD	APPR	REVISION	DATE	TIME
						03/17/2020	12:21:58 PM

NAME: P:\20-01-00\CR_65_(CSAH22-CSAH5)\Base\Proposed\Proposed.dgn

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ANOKA COUNTY
HIGHWAY DEPT.

COUNTY PROJECT 20-12-65

DETAILS

Sheet 5 of 17 Sheets

SUPERELEVATION CORRECTION TAB			
STATION	POINT	LEFT GRADE	RIGHT GRADE
15+00	BEGIN SUPER RT & LT	-2.0%	-2.0%
15+50		-0.5%	-3.0%
16+00		1.0%	-4.0%
16+50		2.5%	-5.0%
17+00	END SUPER RT	4.0%	-6.0%
17+50		5.0%	-6.0%
18+00	BEGIN FULL SUPER	6.0%	-6.0%
18+50		6.0%	-6.0%
19+00		6.0%	-6.0%
19+50	PC	6.0%	-6.0%
20+00	END FULL SUPER	6.0%	-6.0%
20+50	BEGIN SUPER LT	4.5%	-6.0%
21+00	BEGIN SUPER RT	3.0%	-6.0%
21+50		1.8%	-5.0%
22+00	PT	0.5%	-4.0%
22+50		-0.8%	-3.0%
23+00	END SUPER RT & LT	-2.0%	-2.0%
23+50	BEGIN SUPER RT	-2.0%	-2.0%
24+00	BEGIN SUPER LT	-2.0%	-1.5%
24+50	PT	-3.0%	-1.5%
25+00	END SUPER LT	-4.0%	-1.0%
25+50		-4.0%	-0.5%
25+88	PC	-4.0%	-0.2%
26+00		-4.0%	0.0%
26+50		-4.0%	1.0%
27+00		-4.0%	2.0%
27+50		-4.0%	1.0%
28+00	BEGIN SUPER LT	-4.0%	0.0%
28+50		-3.5%	-0.5%
28+67	PT	-3.4%	-0.6%
29+00		-3.0%	-1.0%
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30+00	END SUPER RT & LT	-2.0%	-2.0%

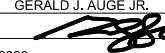
SUPERELEVATION CORRECTION TAB			
STATION	POINT	LEFT GRADE	RIGHT GRADE
36+00	BEGIN SUPER RT & LT	-2.0%	-2.0%
36+50		-0.5%	-3.0%
37+00		1.0%	-4.0%
37+50		2.5%	-5.0%
37+63	PC	2.9%	-5.3%
38+00		4.0%	-6.0%
38+50		5.0%	-6.0%
39+00	BEGIN FULL SUPER	6.0%	-6.0%
39+50		6.0%	-6.0%
40+00		6.0%	-6.0%
40+50		6.0%	-6.0%
41+00		6.0%	-6.0%
41+50		6.0%	-6.0%
42+00	END FULL SUPER	6.0%	-6.0%
42+50	BEGIN SUPER LT	4.7%	-6.0%
43+00	BEGIN SUPER RT	3.5%	-6.0%
43+50		2.2%	-5.0%
44+05	PT	1.0%	-4.0%
44+50		-0.5%	-3.0%
45+00	END SUPER RT & LT	-2.0%	-2.0%

NO	DATE	BY	CKD	APPR	REVISION
	03/17/2020				12:21:59 PM

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**ANOKA COUNTY
HIGHWAY DEPT.**

COUNTY PROJECT 20-12-65

TABULATIONS

Sheet 6 of 17 Sheets

BEGIN CONSTRUCTION
CP: 20-12-65
STATION: 10+00.00

CSAH 22-VIKING BLVD

CR 65

#19727 #19767

#19833

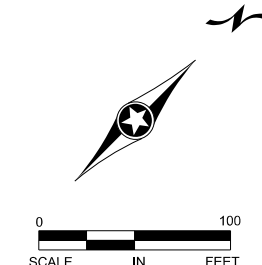
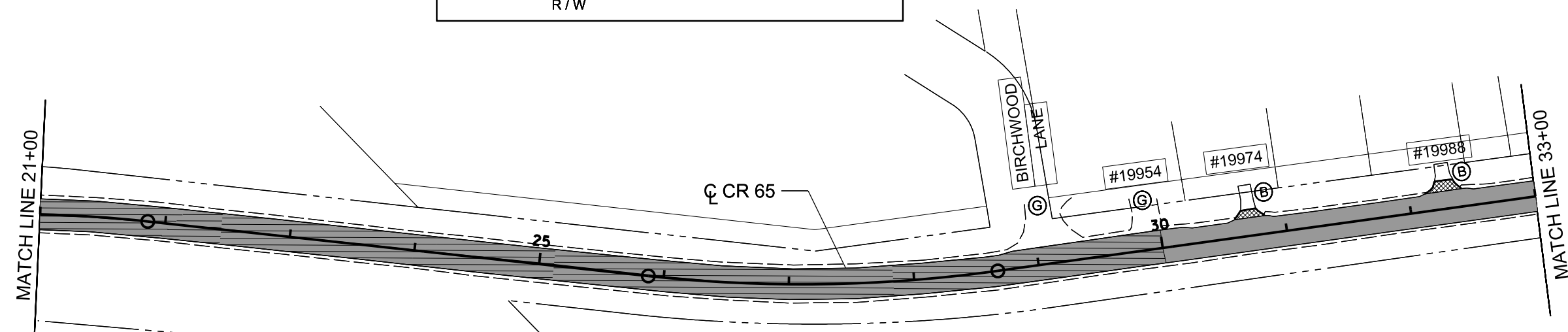
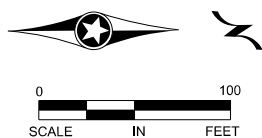
#19855

#19842

#19855

MATCH LINE 21+00

LEGEND			
	MAINLINE (RECLAIM)		BITUMINOUS
	REMOVE AND REPLACE PAVEMENT		CONCRETE
	SUPER TRANSITION AREA		GRAVEL
	R / W		CORE LOCATION
			SAWCUT



NO	DATE	BY	CKD	APPR	REVISION	DATE	TIME
	03/17/2020					12:22:05 PM	

NAME: P:\20-01-00\CR_65_(CSAH22-CSAH5)\Base\Proposed\Proposed.dgn

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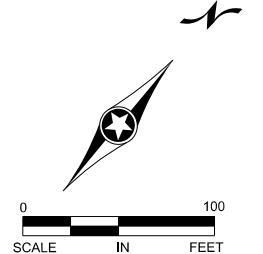
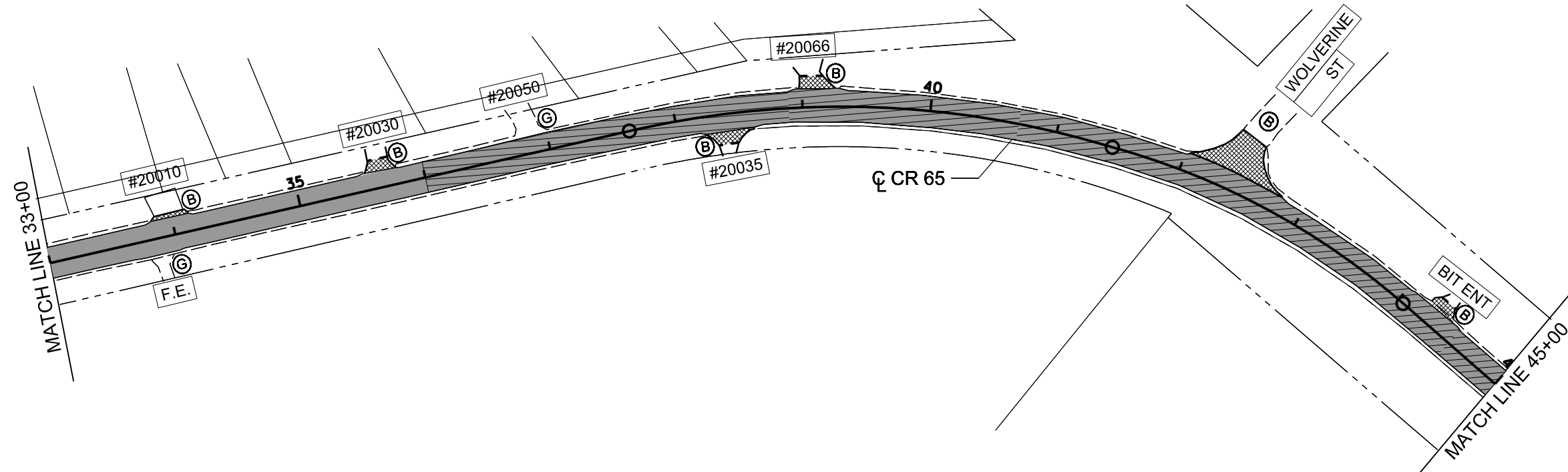
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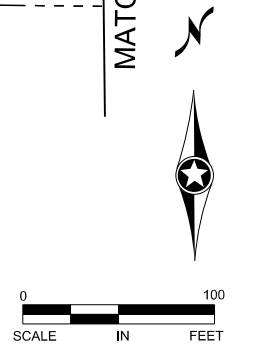
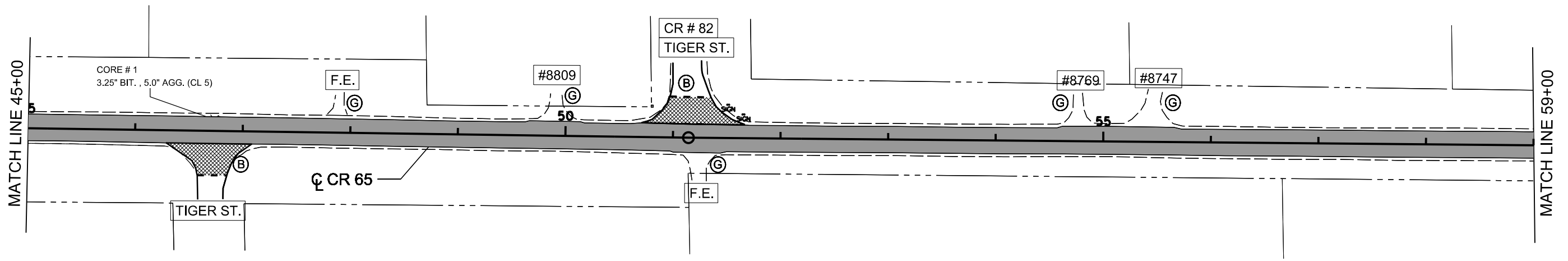
**ANOKA COUNTY
HIGHWAY DEPT.**

COUNTY PROJECT 20-12-65

CONSTRUCTION PLAN
STA 10+00 TO 33+00
Sheet 7 of 17 Sheets



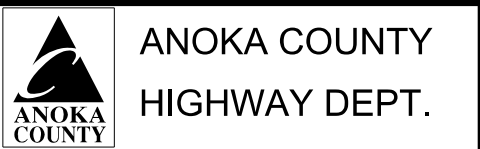
LEGEND			
	MAINLINE (RECLAIM)		BITUMINOUS
	REMOVE AND REPLACE PAVEMENT		CONCRETE
	SUPER TRANSITION AREA		GRAVEL
	R / W		CORE LOCATION
			SAWCUT



NO	DATE	BY	CKD	APPR	REVISION	03/17/2020	12:22:05 PM
NAME: P:\20-01-00\CR_65_(CSAH22-CSAH5)\Base\Proposed\Proposed.dgn							

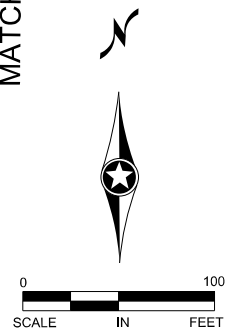
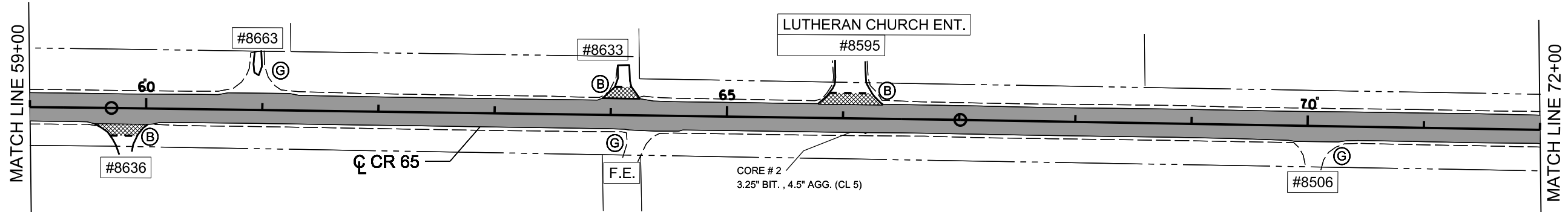
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: GERALD J. AUGER JR.
 SIGNATURE:
 DATE: 03-17-2020 LICENSE NO. 26511

DRAWN BY: APA DATE: 03/17/2020
 DESIGN BY: SRK DATE: 03/17/2020
 CHECKED BY: CSO DATE: 03/17/2020

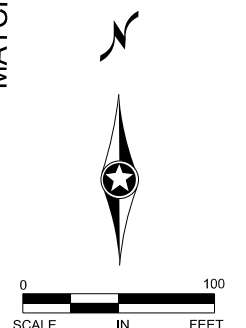
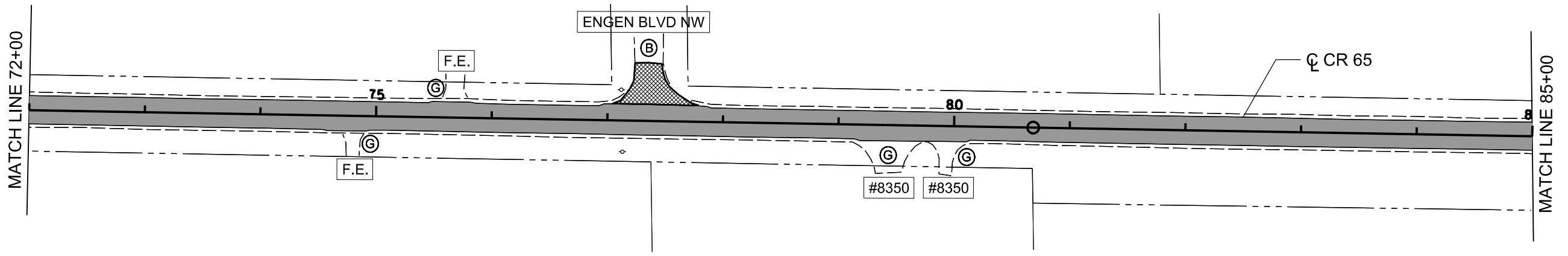


COUNTY PROJECT 20-12-65

CONSTRUCTION PLAN
 STA 33+00 TO 59+00
 Sheet 8 of 17 Sheets



LEGEND			
	MAINLINE (RECLAIM)		BITUMINOUS
	REMOVE AND REPLACE PAVEMENT		CONCRETE
	SUPER TRANSITION AREA		GRAVEL
	R / W		CORE LOCATION
			SAWCUT



NO	DATE	BY	CKD	APPR	REVISION	
	03/17/2020					12:22:06 PM

NAME: P:\20-01-00\CR_65_(CSAH22-CSAH5)\Base\Proposed\Proposed.dgn

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PRINT NAME: GERALD J. AUGER JR.

SIGNATURE:

DATE: 03-17-2020 LICENSE NO. 26511

DRAWN BY: APA DATE: 03/17/2020

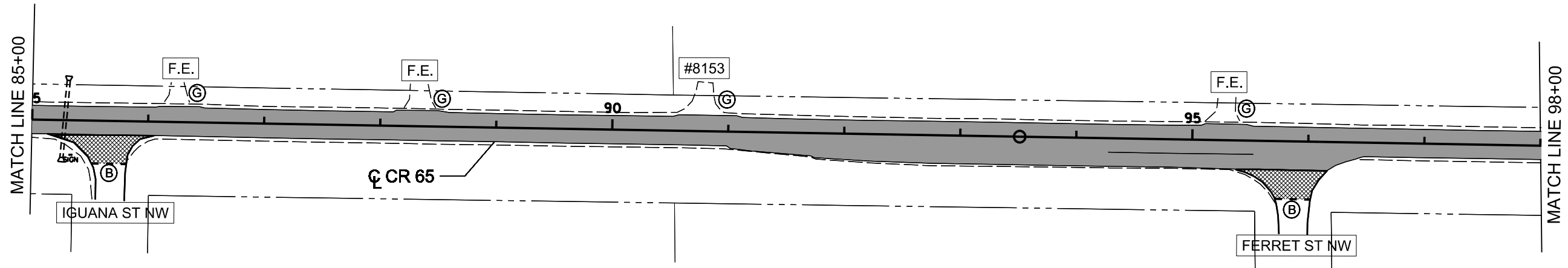
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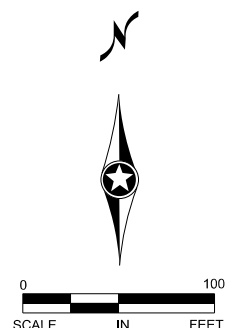
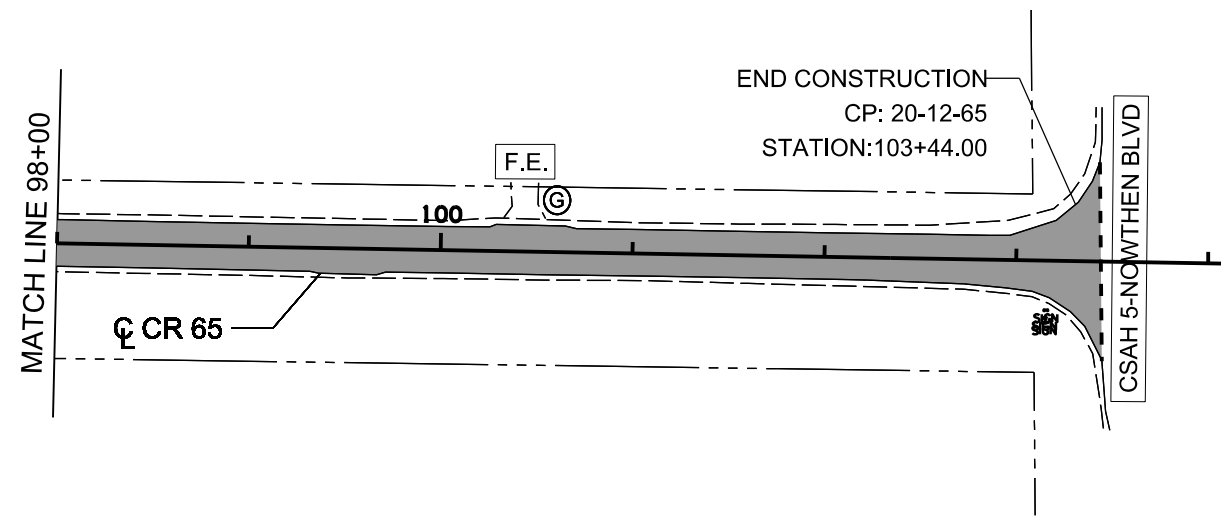
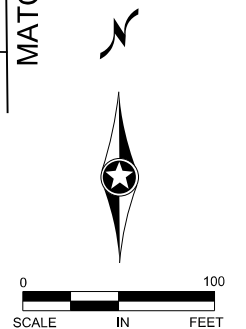
ANOKA COUNTY
HIGHWAY DEPT.

COUNTY PROJECT 20-12-65

CONSTRUCTION PLAN
STA 59+00 TO 85+00
Sheet 9 of 17 Sheets



LEGEND	
	MAINLINE (RECLAIM)
	REMOVE AND REPLACE PAVEMENT
	SUPER TRANSITION AREA
	R / W
	BITUMINOUS
	CONCRETE
	GRAVEL
	CORE LOCATION
	SAWCUT



NO	DATE	BY	CKD	APPR	REVISION	
	03/17/2020					12:22:06 PM

NAME: P:\20-01-00\CR_65_(CSAH22-CSAH5)\Base\Proposed\Proposed.dgn

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SIGNATURE:

DATE: 03-17-2020 LICENSE NO. 26511

DRAWN BY: APA DATE: 03/17/2020

DESIGN BY: SRK DATE: 03/17/2020

CHECKED BY: CSO DATE: 03/17/2020

ANOKA COUNTY HIGHWAY DEPT.

COUNTY PROJECT 20-12-65

CONSTRUCTION PLAN
 STA 85+00 TO 103+44
 Sheet 10 of 17 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 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.

PERFORMED THERMOPLASTIC:

THE PERFORMED THERMOPLASTIC MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS ON CLEAN AND DRY SURFACES. SEE SPECIAL PROVISIONS FOR PERFORMED 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	18646
4" SOLID LINE YELLOW - MULTI COMP	LIN FT	1250
4" SOLID DOUBLE LINE YELLOW - MULTI COMP	LIN FT	4123
1 4" BROKEN LINE YELLOW - MULTI COMP	LIN FT	1030

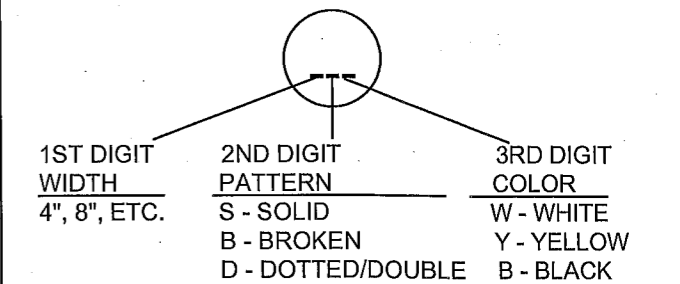
1 10' STRIPE, 40' GAP

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



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

NO	DATE	BY	CKD	APPR	REVISION

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 PRINT NAME: JOSEPH J. MACPHERSON, P.E.
 SIGNATURE: *[Signature]*
 DATE: 7-17-19 REG. NO. 48732

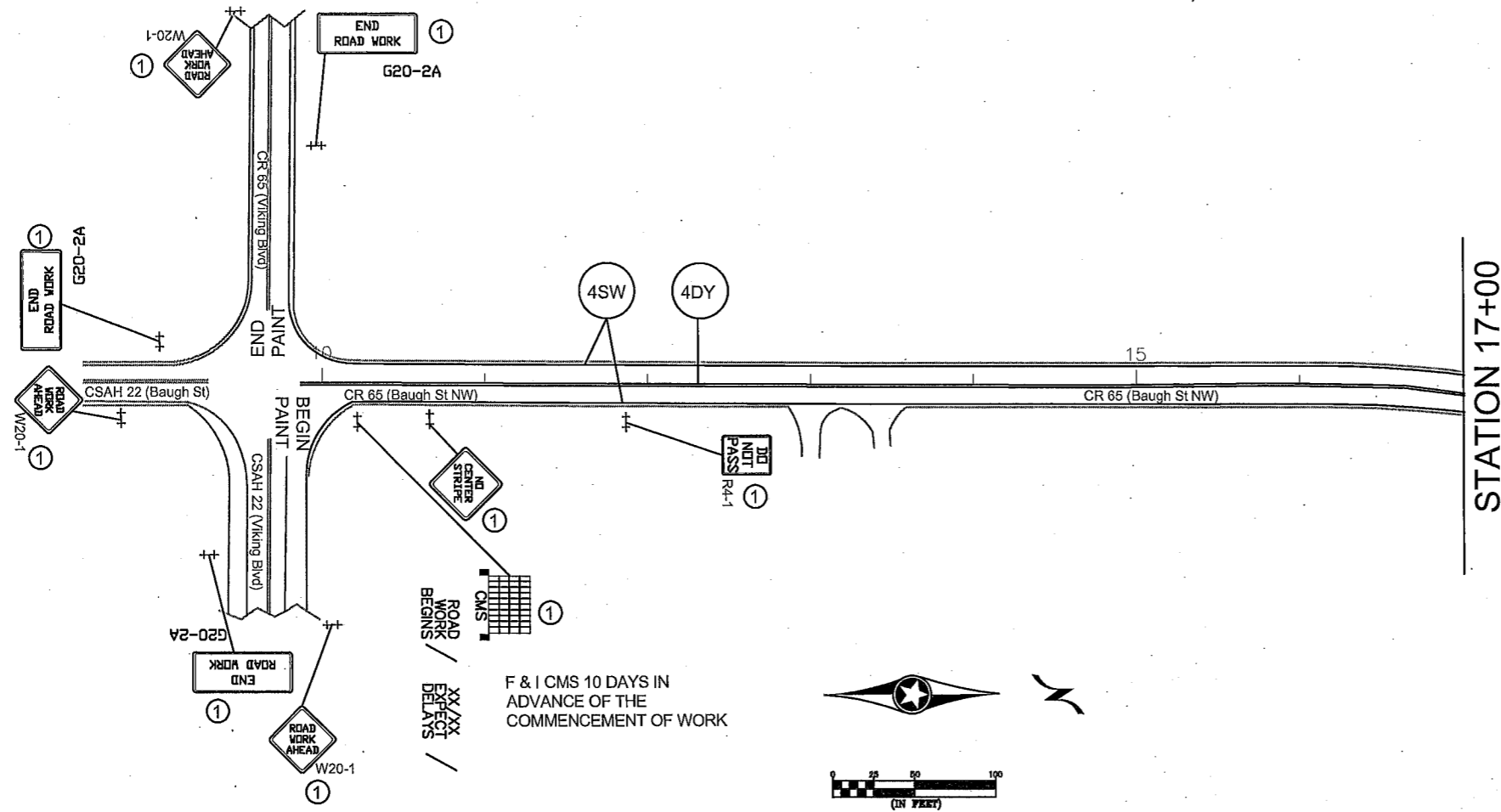
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 DESIGN BY: DATE:
 CHECKED BY: TRH DATE: 02/10/20



ANOKA COUNTY
HIGHWAY DEPT.

CP 20-12-65

PERMANENT MARKING TABULATION
Sheet 11 of 17 Sheets



SIGN NOTES:
 ① TEMPORARY TRAFFIC CONTROL SIGN

STRIPING KEY
 ○ CIRCLE - MULTI COMP

ROAD WORK BEGINS / EXPECT DELAYS / F & I CMS 10 DAYS IN ADVANCE OF THE COMMENCEMENT OF WORK

NOTES:

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NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\20-01-00\CR 65\Base\Traffic\Signing & Striping

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PRINT NAME: JOSEPH J. MACPHERSON, P.E.
 SIGNATURE: *[Signature]*
 DATE: 3-17-20 LICENSE NO. 46732

DRAWN BY: TMV DATE: 12/2020
 DESIGN BY: DATE:
 CHECKED BY: TRH DATE: 02/10/20

ANOKA COUNTY
HIGHWAY DEPT.

CP 20-12-65

TEMPORARY SIGNING
 PERMANENT SIGNING
 AND STRIPING

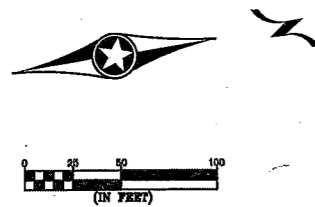
Sheet 12 of Sheets 17

STATION 17+00

STRIPING KEY

○ CIRCLE - MULTI COMP

SIGN NOTES:
 ① TEMPORARY TRAFFIC CONTROL SIGN



4SW

4DY

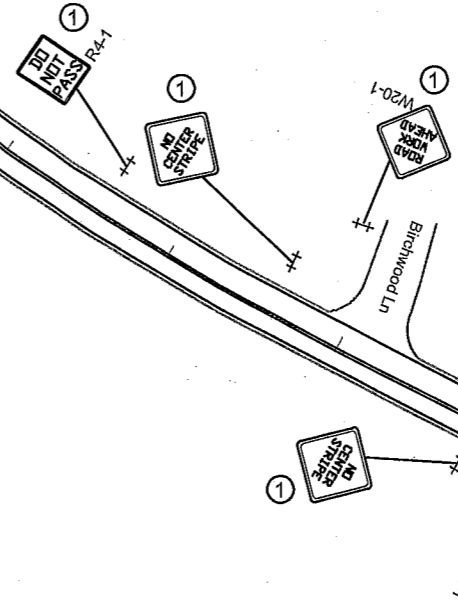
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30

STATION 32+00

NOTES:

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2 OF 6

NO	DATE	BY	CKD	APPR	REVISION

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 PRINT NAME: JOSEPH J. MACPHERSON P.E.
 SIGNATURE: *[Signature]*
 DATE: 3-17-18 LICENSE NO. 48732

DRAWN BY: TMV DATE: 12/2020
 DESIGN BY: DATE:
 CHECKED BY: TRH DATE: 02/10/20

ANOKA COUNTY
HIGHWAY DEPT.

CP 20-12-65

TEMPORARY SIGNING
 PERMANENT SIGNING
 AND STRIPING
 Sheet 13 of Sheets 17

STATION 32+00

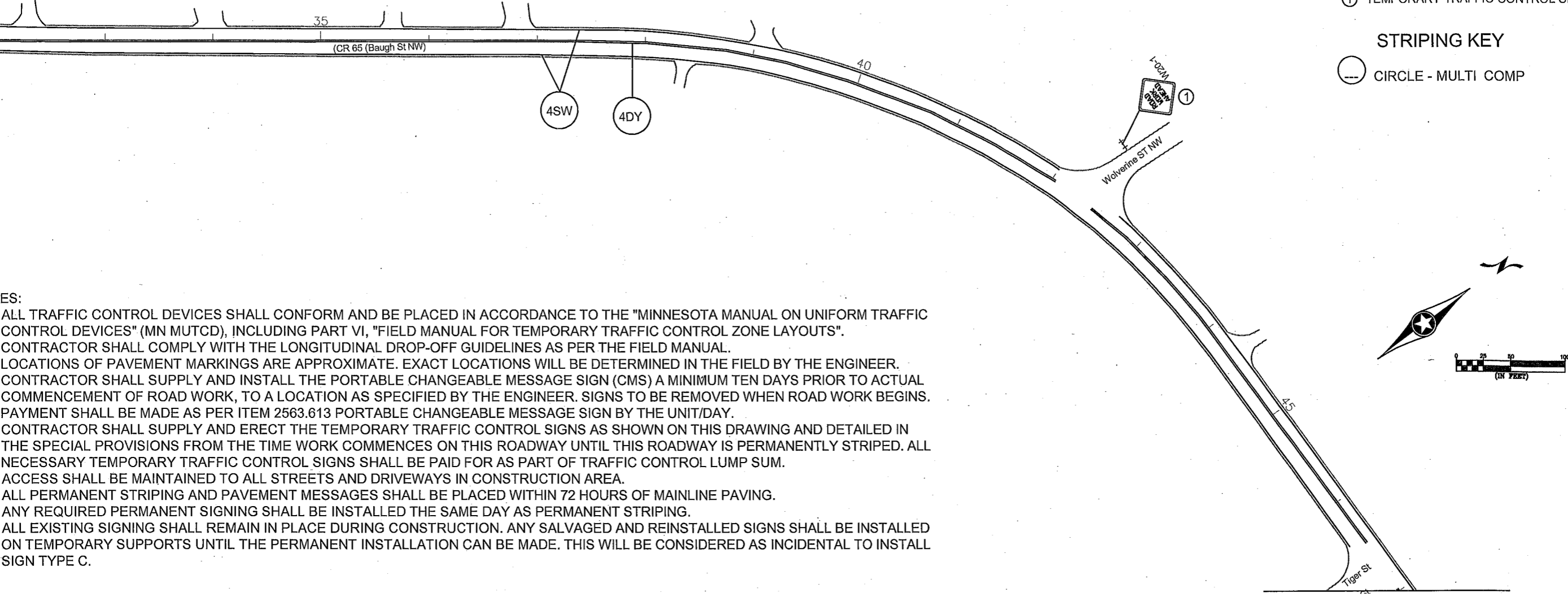
SIGN NOTES:
 ① TEMPORARY TRAFFIC CONTROL SIGN

STRIPING KEY

○ CIRCLE - MULTI COMP

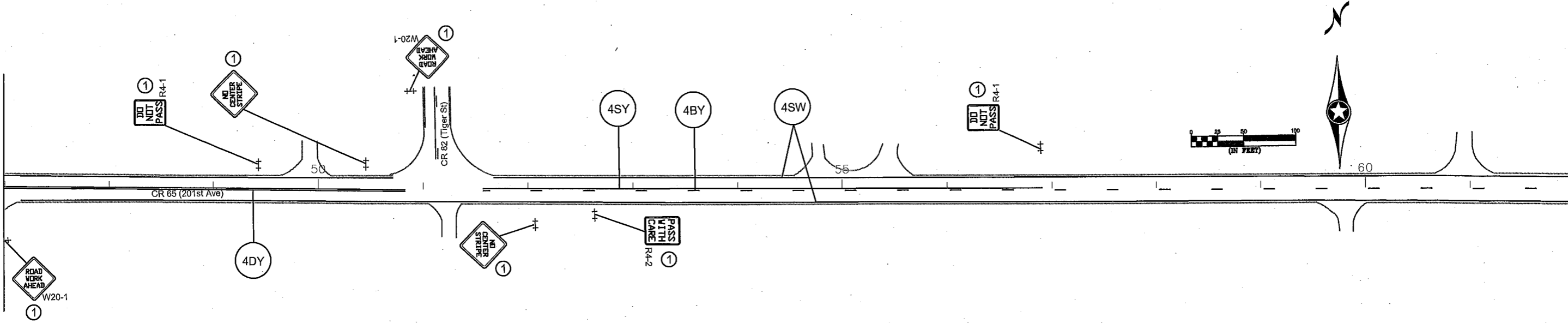
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STATION 47+00

STATION 47+00



STATION 62+00

3 OF 6

NO	DATE	BY	CKD	APPR	REVISION

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DRAWN BY: TMV DATE: 12/2020
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 CHECKED BY: TRH DATE: 02/10/20



ANOKA COUNTY
 HIGHWAY DEPT.

CP 20-12-65

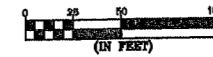
TEMPORARY SIGNING
 PERMANENT SIGNING
 AND STRIPING
 Sheet 14 of Sheets 17

STRIPING KEY

○ CIRCLE - MULTI COMP

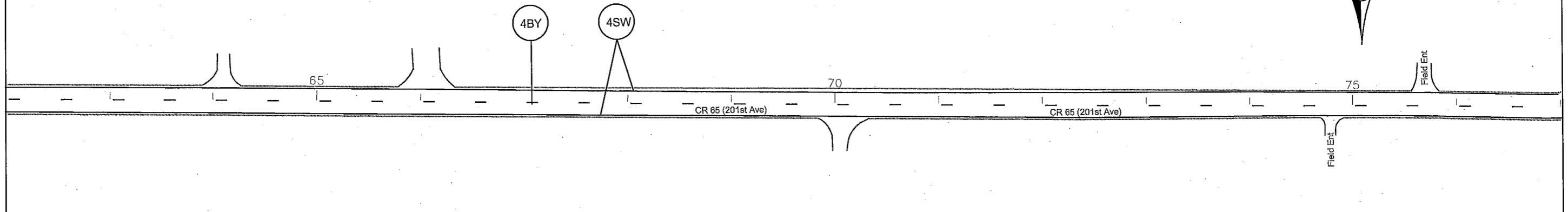
SIGN NOTES:

① TEMPORARY TRAFFIC CONTROL SIGN



STATION 62+00

STATION 77+00

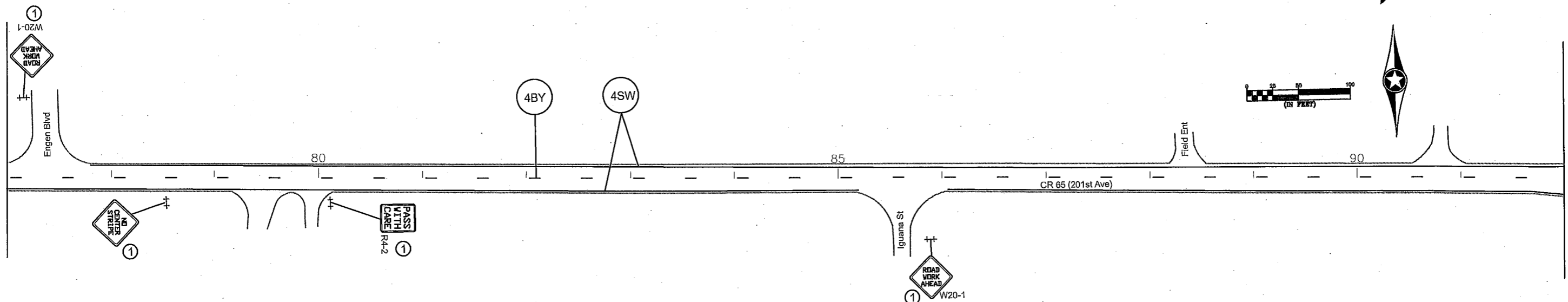


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STATION 77+00

STATION 92+00



4 OF 6

NO	DATE	BY	CKD	APPR	REVISION

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

SIGNATURE: *[Signature]*

DATE: 3/17/20 LICENSE NO. 48732

DRAWN BY: TMV DATE: 12/2020

DESIGN BY: DATE: _____

CHECKED BY: TRH DATE: 02/10/20

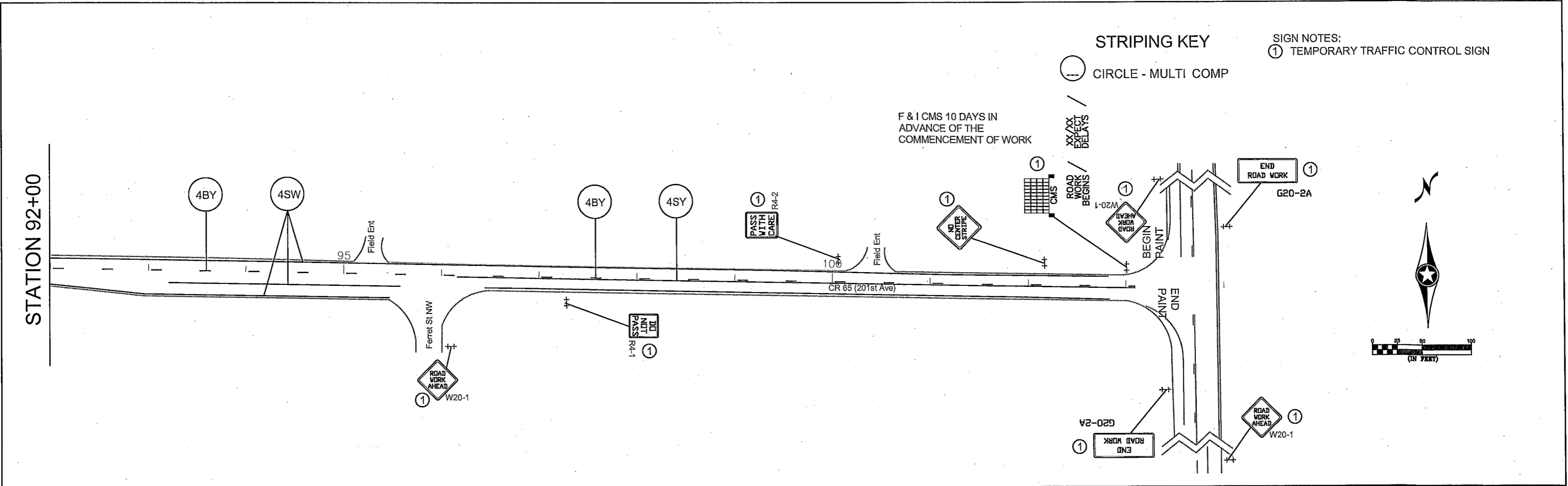


ANOKA COUNTY
HIGHWAY DEPT.

CP 20-12-65

TEMPORARY SIGNING
PERMANENT SIGNING
AND STRIPING

Sheet 15 of Sheets 17



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NO	DATE	BY	CKD	APPR	REVISION

NAME: P:120-01-001CR 65BaseTrafficSigning & Striping

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

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

SIGNATURE: *[Signature]*

DATE: 3-17-20 LICENSE NO. 46732

DRAWN BY: TMV DATE: 12/2020




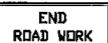









DESIGN BY: DATE: _____

CHECKED BY: TRH DATE: 02/10/20



**ANOKA COUNTY
HIGHWAY DEPT.**

CP 20-12-65

TEMPORARY TRAFFIC CONTROL SIGNS						
M.U.T.C.D. CODE	SIZE	PANEL AREA	INSERT	QUANTITY		MOUNTING HEIGHT TO CENTER (ft.)
		FT. ²			No. POST	FT.
W8-12	48" x 48"	16.00		7	2	7.0'
R4-1	24" x 30"	5.00		6	1	7.0'
R4-2	24" x 30"	5.00		3	1	7.0'
G20-2A	48" x 24"	8.00		5	2	7.0'
W8-1A	48" x 48"	16.00		AS NEEDED		
W8-1A	48" x 48"	16.00		AS NEEDED		
W8-8	48" x 48"	16.00		AS NEEDED		
W8-9	48" x 48"	16.00		AS NEEDED		
	48" x 48"	16.00		AS NEEDED		
W8-11	48" x 48"	16.00		AS NEEDED		
W20-1	48" x 48"	16.00		AS NEEDED (ESTIMATED 12)		
REFLECTORIZED REBOUNDABLE DRUM				AS NEEDED (ESTIMATED 10)		
CMS sign to be installed 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

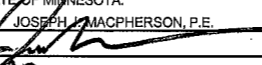
	<	D	A	T	E	>	
	E	X	P	E	C	T	
	D	E	L	A	Y	S	

CMS sign to be installed 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:\20-01-00\CR 65\Baso\Traffic\Signing & Striping

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

PRINT NAME: JOSEPH J. MACPHERSON, P.E.
 SIGNATURE: 
 DATE: 3-17-20 LICENSE NO. 46732

DRAWN BY: TMV DATE: 12/2020
 DESIGN BY: DATE:
 CHECKED BY: TRH DATE: 02/10/20



ANOKA COUNTY
HIGHWAY DEPT.

CP 20-12-65

TEMPORARY SIGNING
QUANTITIES

Sheet 17 of Sheets 17