#### MINNESOTA DEPARTMENT OF TRANSPORTATION PLAN SYMBOLS COUNTYLINE COUNTY LINE TOWNSHIP OR RANGE LINE SECTION LINE QUARTER LINE SIXTEENTH LINE RIGHT OF WAY LINE **GOVERNING SPECIFICATIONS ANOKA COUNTY** THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE INSTALLED 2" BITUMINOUS OVERLAY, AGGREGATE SLOPE EASEMEN EXISTING RIGHT OF WAY IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONSTRUCTION PLAN FOR \_\_\_ SHOULDERING, BIT. WIDENING FOR RIGHT TURN LANE CONTROL DEVICES" (MNMUTCD), AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.\* C.R. 67 BETWEEN 100'S OF 181ST AVE. NW AND LOCATED ON\_\_ RAILROAD RIGHT OF WAY **INDEX** RIVER OR CREEK DRAINAGE DITCH CULVERT DROP INLET SHEET NO. DESCRIPTION 11-23-67 CO. PROJ. NO. TITLE SHEET GUARD RAIL C.R. 67 STATEMENT OF ESTIMATED QUANTITIES **GROSS LENGTH** 3-4 TYPICAL SECTIONS BRIDGES-LENGTH STONE WALL OR FENCE. **EXCEPTIONS-LENGTH** MISCELLANEOUS DETAILS **NET LENGTH** CALCULATIONS FOR RIGHT TURN LANE 8 - 10 CONSTRUCTION PLAN TIMBER ORCHARD 11 - 16 SIGNING & STRIPING PLAN, TAB, & DETAILS سبيبييس CATTLE GUARD 1-8-F BUILDING (One Story Frame) F-FRAME C-CONCRETE S-STONE T-TILE B-BRICK ST-STUCCO END C.P. 11-23-67 C.R. 67 STA, 90+96 RAILROAD CROSSING BELL RAILROAD CROSSING GATE MANHOLE CATCH BASIN CAST IRON MONUMENT 12900 BEGIN C.P. 11-23-67 GRAVEL PIT, SAND PIT . C.R. 67 STA, 9+21 BORROW PIT THIS PLAN CONTAINS 16 SHEETS ROCK QUARRY **UTILITY SYMBOLS** POWER POLE LINE 18500 DESIGN DESIGNATION TELEPHONE OR TELEGRAPH POLE LINE ESAL 20 R VALUE JOINT TELEPHONE & POWER 000 ON TELEPHONE POLES ANCHOR ... ADT (2010) =900 Proj. ADT (2030) = 1474 STREETLIGHT Proj. HCADT (2030) = 000 PEDESTAL (Cable Terminal) GAS MAIN ... iaist næ Soil Factor NA WATERMAIN 10 TON DESIGN TELEPHONE CABLE IN CONDUIT \_\_\_\_\_ ELECTRIC CABLE IN CONDUIT ---MAJOR COLLECTOR **Functional Classification** TELEPHONE MANHOLE .... No. of Traffic Lanes 2 No. of Parking Lanes 0 Design Speed 55 MPH N/A ELECTRIC MANHOLE RUDIED TELEPHONE CARLE ---T-BUR-----BURIED ELECTRIC CABLE..... Based on Stopping Sight Distance Height of eye 3.5' H -----T-AE--N/A Height of object 2.0' SEWER MANHOLE \_ <del>->-</del>->--Design Speed not achieved at: **SCALES** TO STA. PLAN PROJECT LOCATION PROFILE CITY OF OAK GROVE **HORIZONTAL** ANOKA COUNTY ANOKA COUNTY ENGINEER MN/DOT TRANSPORTATION DISTRICT - METRO VERTICAL SECTIONS 25, 26, 35, & 36 X-SECTIONS TOWNSHIP 33 NORTH **HORIZONTAL RANGE 24 WEST** 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 STATE PROJECT NO. **ANOKA COUNTY** THE LAWS OF THE STATE OF MINNESOTA TITLE SHEET STATE AID PROJECT NO. HIGHWAY DEPT. CITY PROJECT NO. LICENSE NO. 40416 NAMEP:\11-01-00\CR\_67\_(South\_of\_CSAH22)\Plan\1 Title Sheet 1 of 16 Sheets COUNTY PROJECT NO. 11-23-67

CR 67	STATEMENT OF ESTIMATED QUANTITIES										
ITEM NO.	ITEM	NOTE NO.	UNIT	TOTAL EST. QUANT.							
2021.501	MOBILIZATION		LUMP SUM	1							
2104.503	REMOVE CONCRETE DRIVEWAY PAVEMENT		SQ FT	567							
2104.505	REMOVE BITUMINOUS PAVEMENT	10	SQ YD	799							
2104,511	SAWING CONCRETE PAVEMENT (FULL DEPTH)	1	LIN FT	54							
2104,513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	1	LIN FT	81							
2104,523	SALVAGE SIGN TYPE C		EACH	21							
2105,602	CONSTRUCT TURN LANE	8	EACH	1							
2130.501	WATER		M-GAL	6							
2221.501	AGGREGATE SHOULDERING CLASS 5	2	TON	424							
2232.501	MILL BITUMINOUS SURFACE (2.0") ( JOINTS )	1	SQ YD	227							
2357.502	BITUMINOUS MATERIAL FOR TACK COAT		GALLON	1173							
2360.501	TYPE SP 12.5 WEARING COURSE MIX (4,B)	7	TON	86							
2360.501	TYPE SP 12.5 WEARING COURSE MIX (4,E)		TON	2696							
2360,502	TYPE SP 12.5 NON-WEAR COURSE MIX (4,B)	9	TON	77							
2531,507	6" CONCRETE DRIVEWAY PAVEMENT		SQ YD	63							
2540.602	INSTALL MAIL BOX SUPPORT	6	EACH	21							
2563.601	TRAFFIC CONTROL	3,4,5	LUMP SUM	1							
2564.533	FURNISH SIGN PANEL TYPE C	11	SQ FT	37							
2581,501	REMOVABLE PREFORMED PLASTIC MARKING	3	LIN FT	327							
2582,502	4" SOLID LINE WHITE - EPOXY	5	LIN FT	17007							
2582.502	4" SOLID LINE YELLOW - EPOXY	5	LIN FT	1294							
2582,502	4" BROKEN LINE YELLOW-EPOXY	5	LIN FT	1300							
2582,502	4" DOUBLE SOLID LINE YELLOW - EPOXY	5	LIN FT	1555							

## NOTES

- 1 LOCATION TO BE DETERMINED BY ENGINEER.
- 2 MATERIAL FOR FINISHED 1.5' GRAVEL SHOULDER AND GRAVEL ENTRANCES.
- CL YELLOW SKIPS TO BE APPLIED AS SOON AS POSSIBLE ON EACH LIFT (MUST BE APPLIED BEFORE CONTRACTOR LEAVES FOR DAY).
- DO NOT PASS, PASS WITH CARE, NO CENTER STRIPE, AND BUMP/BUMP AHEAD SIGNS TO BE INPLACE DURING PAVING OPERATIONS.
- PERMANENT MARKINGS TO BE IN PLACE WITHIN 72 HOURS OF FINAL MAINLINE PAVING.
- 6 MAILBOXES TO BE INSTALLED AT THE EXISTING MAILBOX LOCATION. MAILBOX MATERIALS INCIDENTAL TO INSTALLATION.
- 7 TO BE DONE IN A SEPARATE OPERATION FROM MAINLINE PAVING, FOR STREET APPROACHES AND DRIVEWAYS.
- 8 INCLUDES ALL TIME AND MATERIALS TO CONSTRUCT-COMMON EX, SELECT GRANULAR, AGG. BASE CL-5, TOPSOIL, MOTOR GRADER HRS., DOZER HRS., PNEUMATIC-TIRE ROLLER HRS., EROSION CONTROL BLANKET (TYPE 3), SEEDING, SEED AND SILT FENCE MACHINE SLICED. ESTIMATED CALCULATIONS AND QUANTITIES FOR THESE ITEMS CAN BE FOUND IN PLAN DETAILS.
- 9 ITEM FOR BASE COURSE IN RIGHT TURN LANE AREA.
- 10 ITEM INCLUDES 3' DEPTH (COMMON EXCAVATION) UNDERNEATH BITUMINOUS PAVEMENT AND SIDE SLOPE.
- 11 FURNISH AND INSTALL SIGN PANEL TYPE C , MOUNTING POSTS ARE INCIDENTAL TO ITEM.

## BASIS OF PLANNED QUANTITIES

2221.501	AGGREGATE SHOULDERING CLASS 5	CU YDS * 1.8 = TONS
2357,502	BITUMINOUS MATERIAL FOR TACK COAT	.05 GAL / SQ YD
2360.501	TYPE SP 12.5 WEARING COURSE (SPWEB440E) (4,E)	115 LBS/SQYD/IN THICKNESS
2360,501	TYPE SP 12.5 WEARING COURSE (SPWEB440B) (4,B)	115 LBS/SQYD/IN THICKNESS
2360.502	TYPE SP 12.5 NON-WEAR COURSE (SPNWB440B) (4,B)	115 LBS/SQYD/IN THICKNESS
2581.501	REMOVABLE PREFORM PLASTIC MARKINGS	2' AT 50' INTERVALS FOR SKIPS

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THE STATE OF MINNESOTA.

PRINT NAME: CHARLES CADENHEAD

SIGNATURE: THE LICENSE NO. # 40416

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 DATE
 2/24/2011

 DESIGN BY
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 DATE
 2/24/2011



ANOKA COUNTY HIGHWAY DEPT.

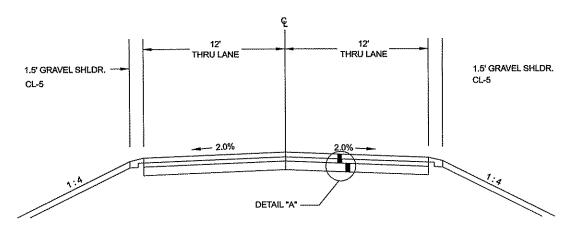
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STATE AID PROJECT NO	
CITY PROJECT NO.	
COUNTY PROJECT NO.	11-23-67

STATEMENT OF ESTIMATED QUANTITIES

Sheet 2 of 16 Sheets

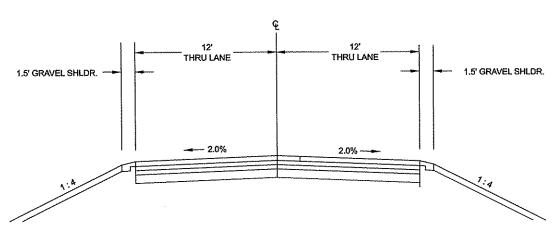
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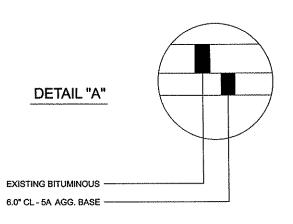
STA. 9+21 - 90+96

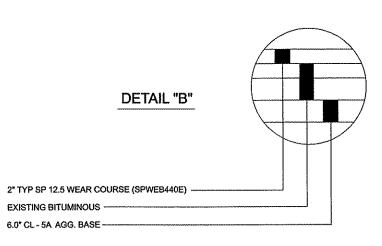


# PROPOSED TYPICAL SECTION

STA. 9+21 - 86+16







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THE STATE OF MINNESOTA.
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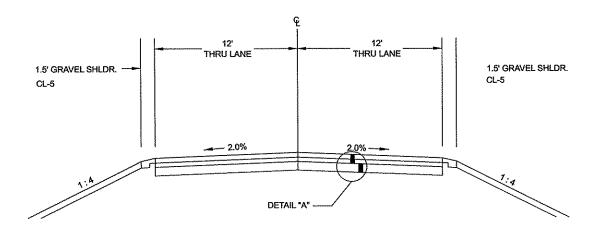
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CITY PROJECT NO	
COUNTY PROJECT NO	11-23-67

TYPICAL SECTION

Sheet 3 of 16 Sheets

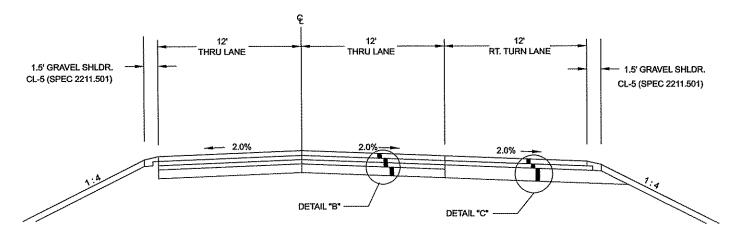
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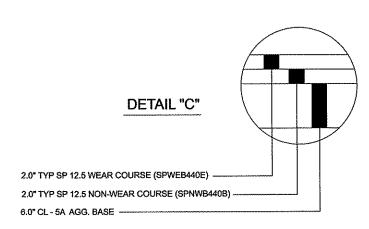
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## PROPOSED TYPICAL SECTION (RT. TURN LANE - LNB)

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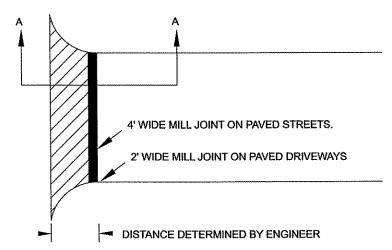
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TYPICAL SECTION

Sheet 4 of 16 Sheets

## PAVED DRIVEWAYS / PAVED STREETS

## JOINT DETAILS



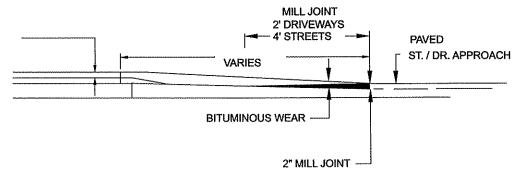
DRIVEWAYS BUMPED OUT TO BE PAVED WITH MAINLINE, PAID AS MAINLINE.

DRIVEWAYS PAVED IN DIFFERENT OPERATION FROM MAIN LINE PAVING PAID AS ST. APPROACH.

STREETS PAID AS ST. APPROACH.

## JOINT DETAILS A - A

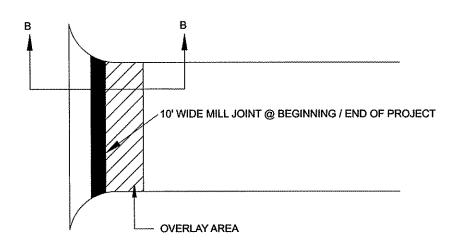
## 2" TYP SP 12.5 WEAR COURSE (SPWEB440B)



PAID AS STREET APPROACH

# MAINLINE

## JOINT DETAILS



## JOINT DETAILS B - B



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THE STATE OF MINNESOTA
PRINT NAME: CHARLESCADENHEAD
SIGNATURE:



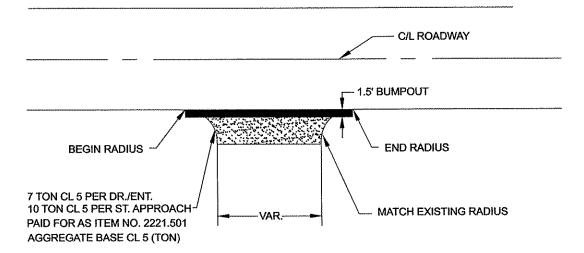
ANOKA COUNTY HIGHWAY DEPT.

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STATE AID PROJECT NO								
CITY PROJECT NO								
COUNTY PROJECT NO.	11-23-67							

MISCELLANEOUS DETAILS

Sheet 5 of 16 Sheets

## GRAVEL DRIVEWAYS / STREET APPROACHES AND FIELD ENTRANCES

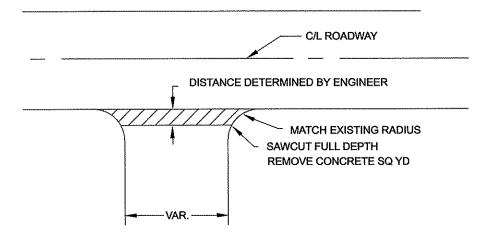


# DISTANCE DETERMINED BY ENGINEER MATCH EXISTING RADIUS 2' MILL JOINT VAR.

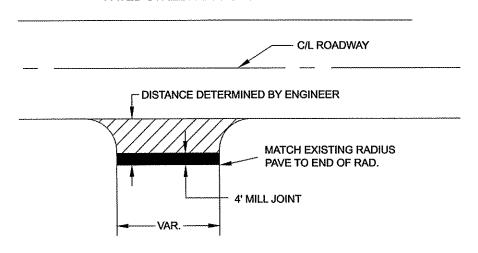
DRIVEWAYS BUMPED OUT AND PAVED WITH MAINLINE PAID AS MAINLINE.

DRIVEWAYS PAVED IN DIFFERENT OPERATION FROM MAIN LINE PAVING PAID AS ST. APPROACH.

## CONCRETE DRIVEWAYS



## PAVED STREET APPROACHES



STREETS PAVED IN DIFFERENT OPERATION FROM MAIN LINE PAVING PAID AS ST. APPROACH.

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PRINT NAME: CHARLES CADENHEAD

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 DATE
 2/24/20



ANOKA COUNTY HIGHWAY DEPT. STATE PROJECT NO.

STATE AID PROJECT NO.

CITY PROJECT NO.

COUNTY PROJECT NO.

11-23-67

MISCELLANEOUS DETAILS

Sheet <u>6</u> of <u>16</u> Sheets

				ESTIMATED O	<b>QUANTITIES FOR</b>	RIGHT TURN LAN	NE @ CSAH 22				
CONSTRUCT RT TURN	LANE (@ CSAH	22)									
	STATION	STATION	LENGTH	WIDTH	DEPTH	CU YDS	SQ YDS	TONS	ACRE	LBS	HOURS
COMMON EX	86+16	90+96	480.0	21.3	0.5	189.3					
SELECT GRANULAR (CV)	86+16	90+96	480.0	12	1.0	219.7					
CLASS 5	86+16	90+96	480.0	12	0.5	106.7					
TOPSOIL	86+16	90+96	480.0					19.6			
MOTOR GRADER TIME	86+16	90+96	480.0								2.0
PNEUMATIC TIRE ROLLER TIME	86+16	90+96	480.0								2.0
DOZER TIME	86+16	90+96	480.0								2.0
SEEDING (ACRE)	86+16	90+96	480.0						0.09		
SEED MIXTURE 350 (LBS)	86+16	90+96	480.0							7.6	
EROSION CONTROL BLANKET	86+16	90+96	480.0				426.7				
FERTILIZER TYPE 3 (LBS)	86+16	90+96	480.0							31.5	
SILT FENCE	86+16	90+96	694.0								
AVG. DEPTH ESTIMATE	S IN RT TURN L	ANE USING EDG	E MAT, SHOULDE	R PI, AND DITCH	BOTTOM ELEVA	TIONS					
	CR 67 RT TUR	N LANE					-				
STA	EM	SH PI	DITCH BOTTOM								
86+50	898.83	898.54	893.54								
87+50	898.61	898.46	893.46								
88+50	898.97	898.78	893.78								
89+50	899.44	899.29	894.29								
90+50	900.24	900.09	895.09								

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AVG.

AVG DEPTH = 5.19' minus 0.5' = 4.69' 899.22

899.03

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LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF
THE STATE OF MINNESOTA.
PRINT NAME: CHAPLES CADENHEAD
SIGNATURE: LICENSE NO. \$6416

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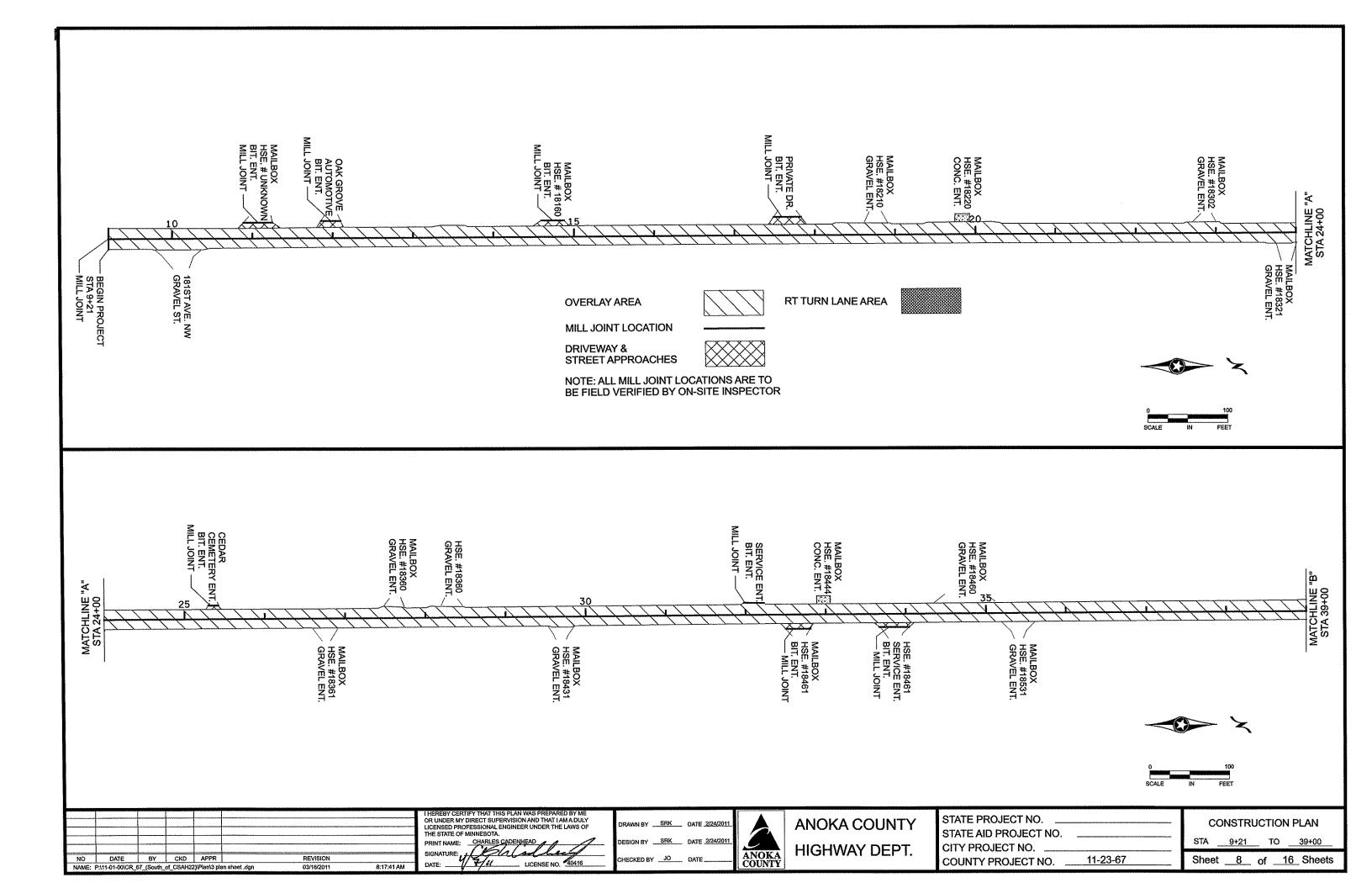


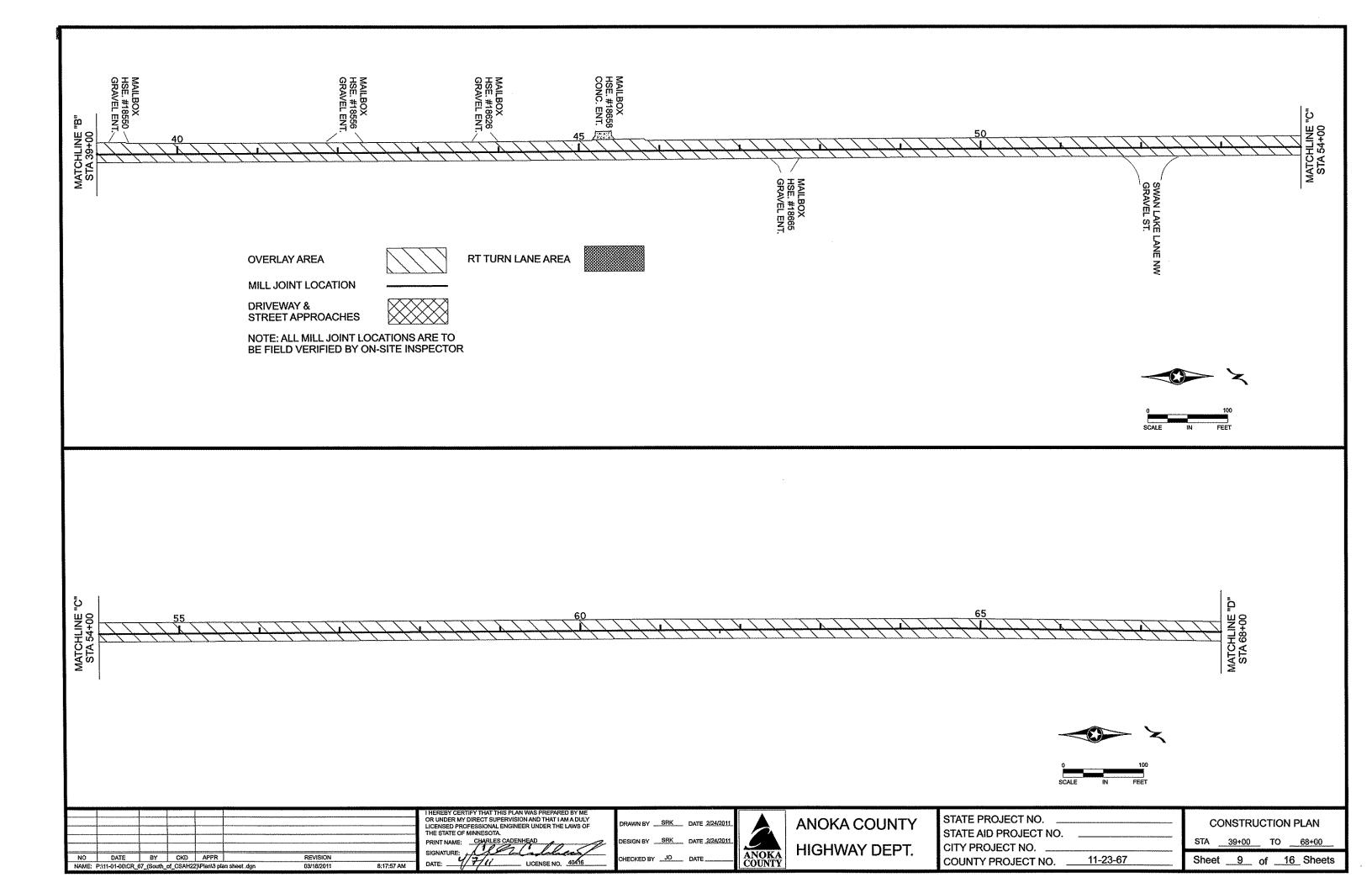
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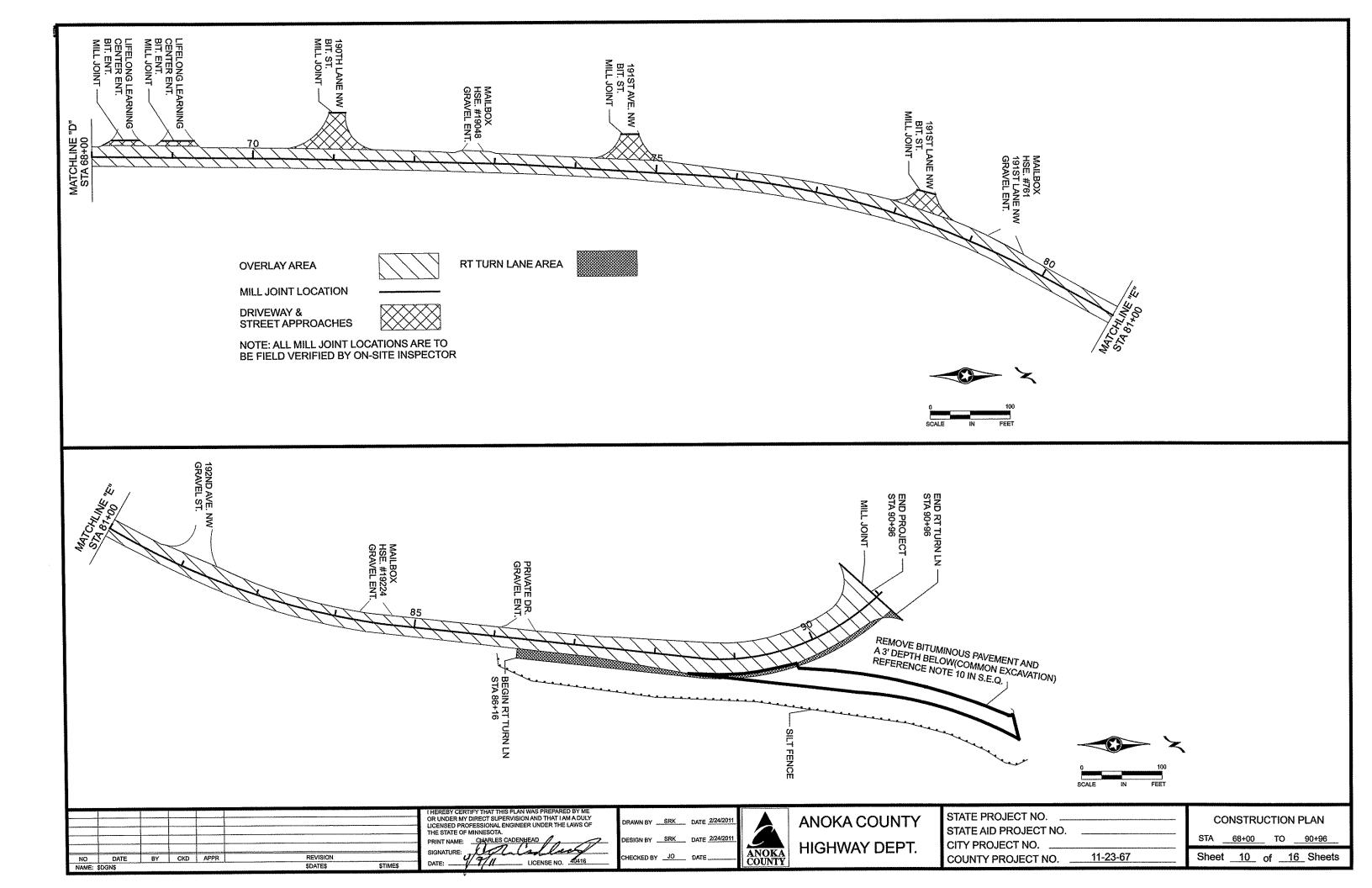
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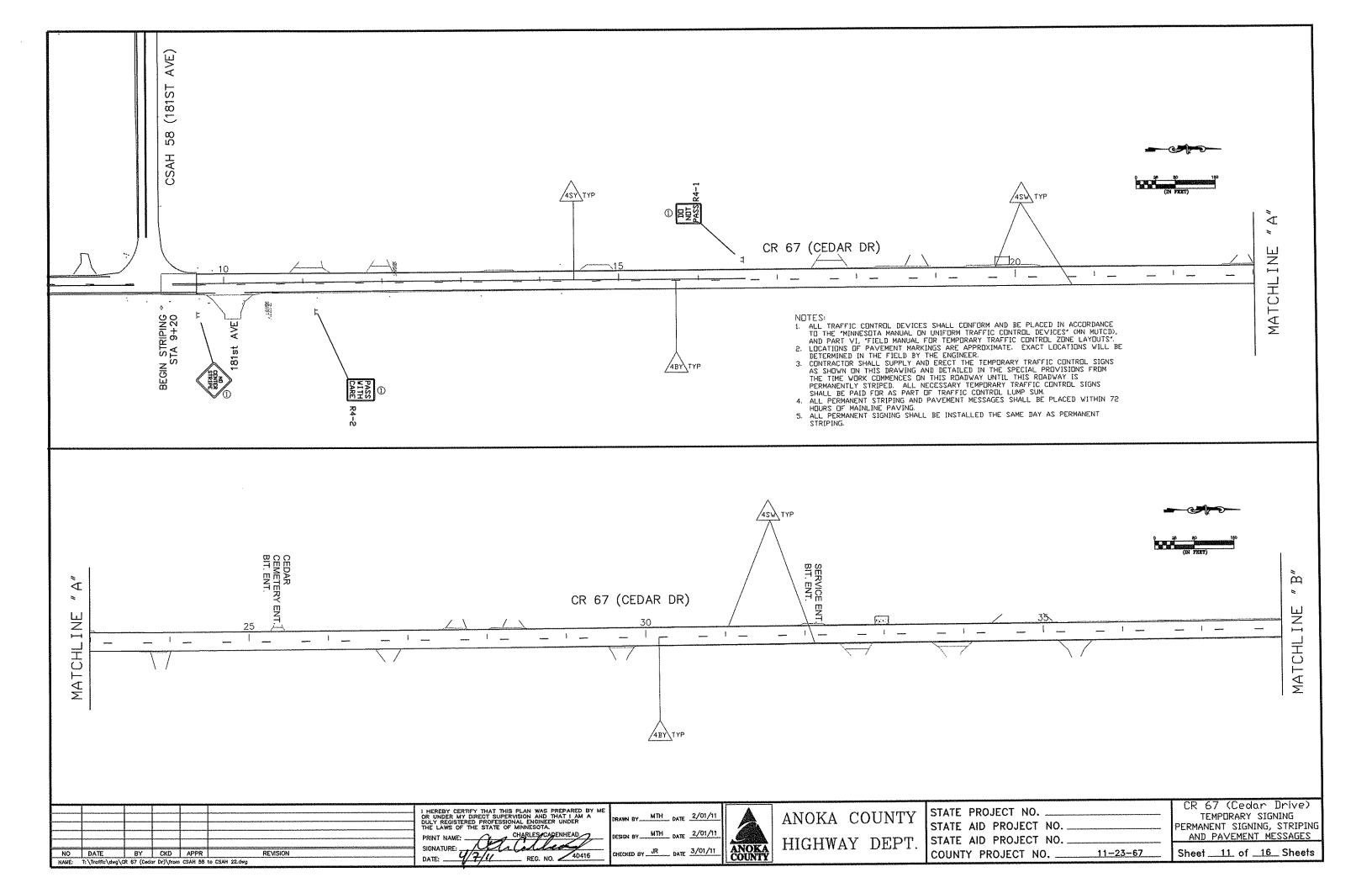
CALCULATIONS FOR RIGHT TURN LANE

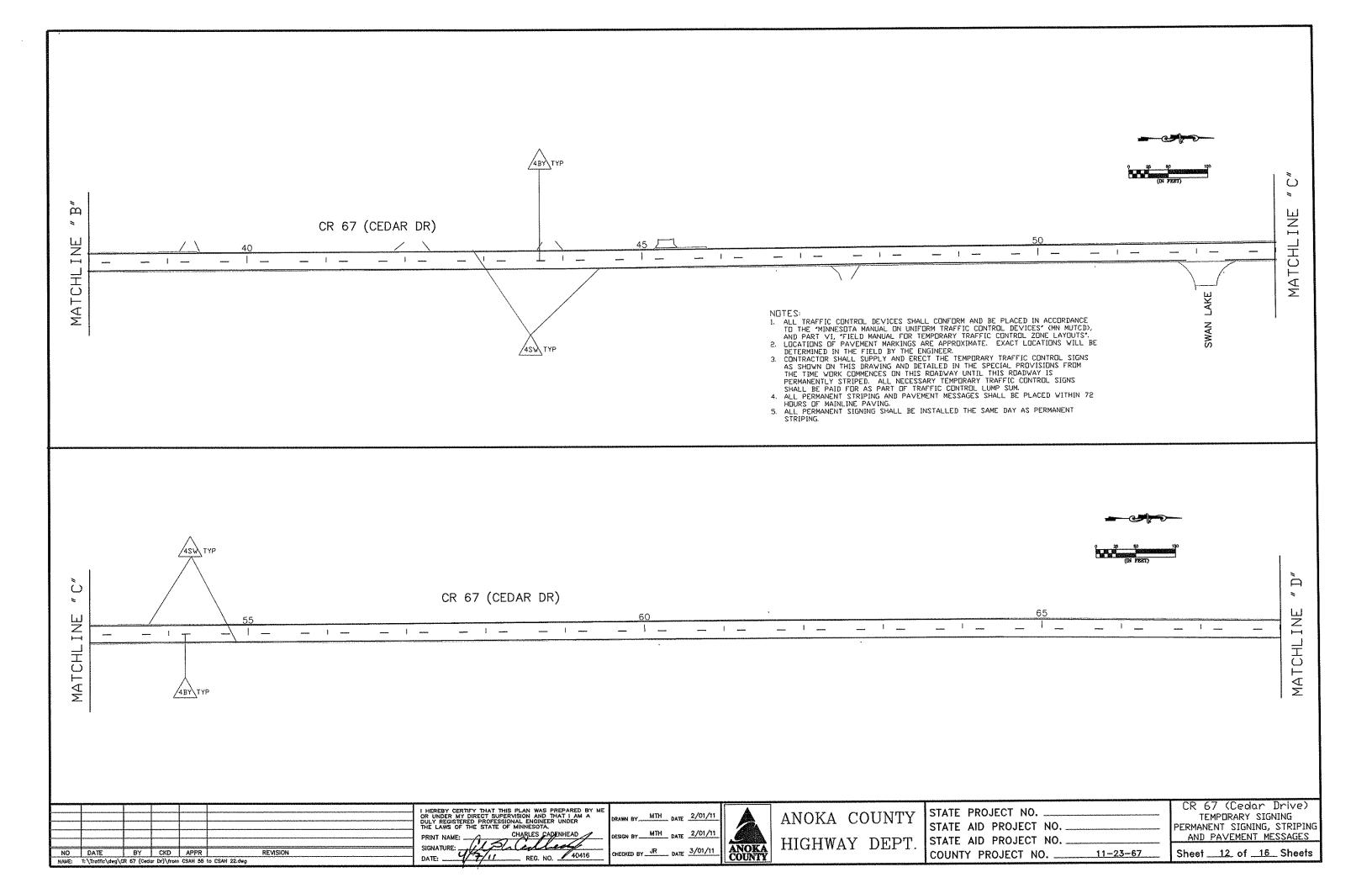
Sheet 7 of 16 Sheets

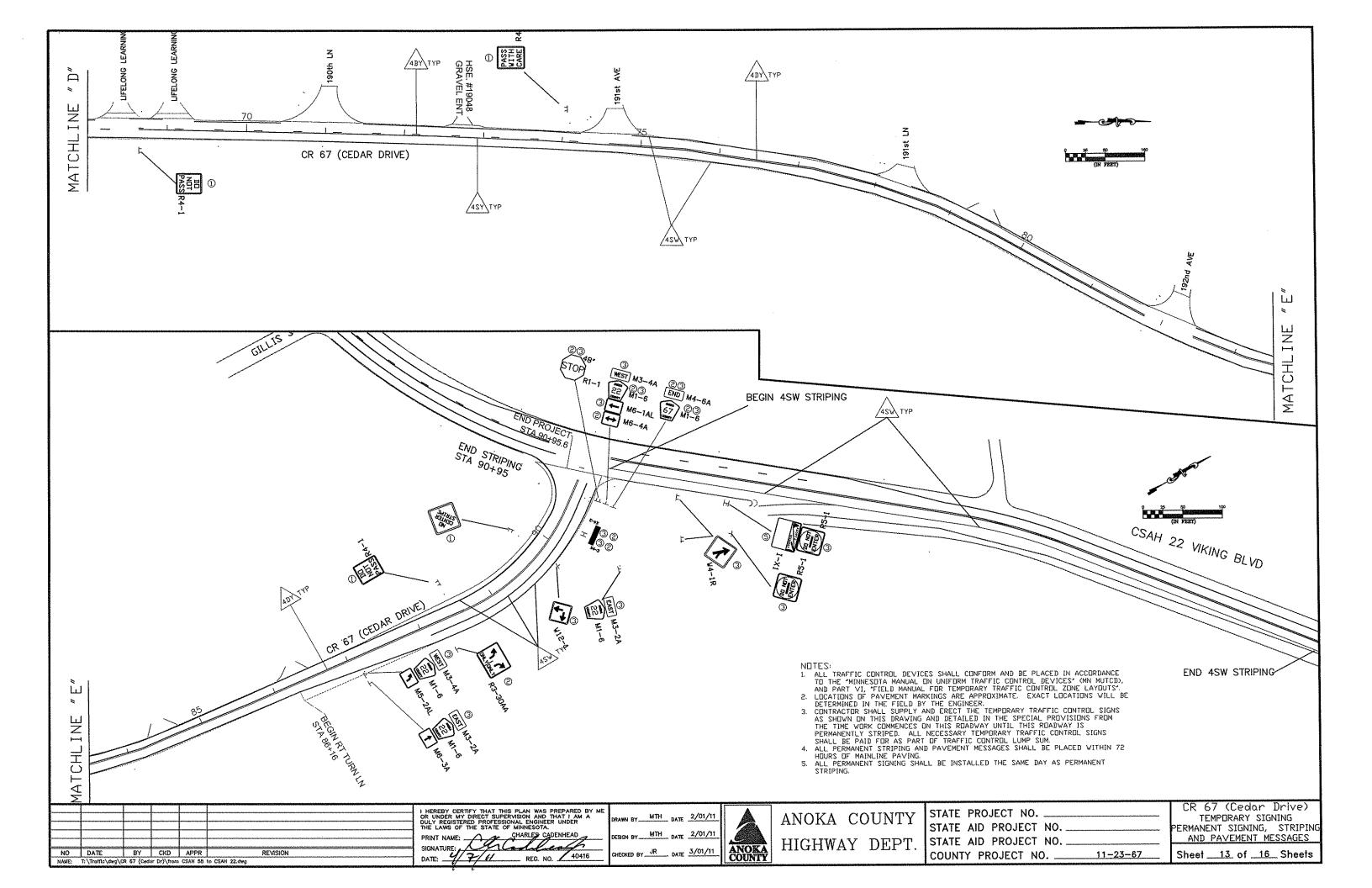












ltem	Quantity	Units
4" Double Yellow Striping	1555	Lin Ft
4" Solid Yellow Striping	1294	Lin Ft
4" Broken Yellow Striping	1300	Lin Ft
4" Solid White Striping	17007	Lin Ft
4" Broken White Striping	0	Lin Ft
24" Yellow Thermoplastic	0	Lin Ft
24" White Thermoplastic	0	Lin Ft
3'x6' Zebra Crosswalk Thermoplastic	0	SQ FT
Right Turn Arrow Thermoplastic	0	Each
Left Turn Arrow Thermoplastic	0	Each
Thru/Right Turn Arrow Thermoplastic	0	Each
Thru Arrow Thermoplastic	0	Each

4BY	4' SOLID LINE DOUBLE YELLOW PAINT	r	PAVEMENT MESSAGE RIGHT
ASY	4" SOLID LINE YELLOW PAINT	4	PAVEMENT MESSAGE LEFT
4BY	4' BROKEN LINE YELLOW PAINT	*	PAVEMENT MESSAGE THRU/RIGHT
45W	4" SOLID LINE WHITE PAINT	1	PAVEMENT MESSAGE THRU
4BW	4' BROKEN LINE WHITE PAINT	(1) <u>2F1</u>	E SPECIAL PROVISIONS  TEMPORARY TRAFFIC CONTROL SIGN
247	24' YELLEW PERMANENT PAVEMENT MESSAGE	(5)	F & I PERMANENT SIGN
241	24" WHITE PERMANENT PAVEMENT MESSAGE	(3)	SALVAGE PERMANENT SIGN
zcw	3' × 6' ZEBRA CROSSWALK	4	RE-INSTALL PERMANENT SIGN

NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE 'MINNESDIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' (MM MUTCD), AND PART VI, 'FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS'.

2. LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

3. 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 IS PERMANENTLY STRIPED. ALL NECESSARY TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.

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

5. ALL PERMANENT SIGNING SHALL BE INSTALLED THE SAME DAY AS PERMANENT STRIPING.

		PE	RMANENT				
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R1-1	48" × 48"	16. 00	— STOP	2	2	7.0'	
73-30AA	36′ × 30′	7. 50	- GNLY DNLY	1	1	7.0'	
M1-6	24" × 24"	4. 60	22)	1	1	7.0'	
M1-6	24" × 24"	4. 00	67	1	1	7.0*	
M4-6	24" x 12"	2.00	END	1	1	7.0'	
M6-4	21' × 15'	2, 19	<b>→</b>	1	1	7.0°	
X4~3	6" × 12"	0. 50		2	1	5.0*	-
TOTAL	PANEL AREA	36. 69				<u> </u>	

	/	PORAR	Y TRAFFIC	CO	NTF		
7. 7. W	13 Jan 19 19 19 19 19 19 19 19 19 19 19 19 19	FT. <sup>2</sup>	T. Long	OLEAN.	LI JON	\$ 15 0 FT.	Margaret P
W8-12	48" × 48"	16. 00	NO CENTER STRIPE	2	2	7.0°	
R4~1	24* × 30*	5. 00		3	1	7.0'	
R4-2	24" × 30"	5. 00	PASS WITH CARE R4-	2	1	7.0'	
¥8-1A	48" × 48"	16. 00	BUMP AHEAD W8-1A	AS	NEEDEC	>	
₩8-1A	48" × 48"	16. 00	BUMP W8-1A	AS	NEEDE	D	
M8-8	48° × 48°	16.00	RDUGH RDAD W8-8	AS	NEEDE	D	
¥8-11	48' × 48'	16. 00	UNEVEN LANES W8-11	AS	NEEDE	0	

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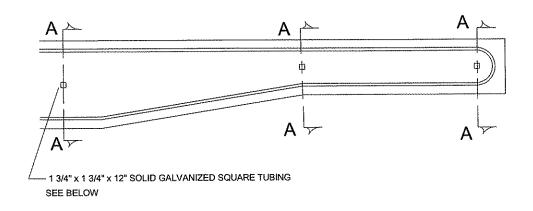


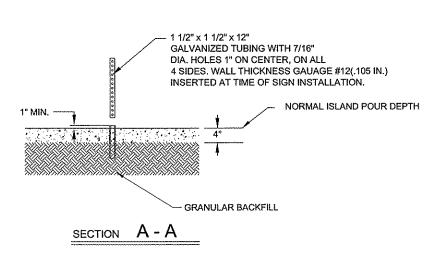
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STATE PROJECT NO. STATE AID PROJECT NO. STATE AID PROJECT NO. \_\_ COUNTY PROJECT NO. \_ 11-23-67

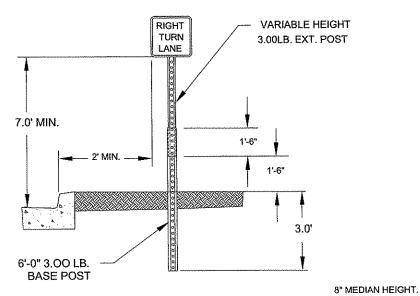
CR 67 (Cedar Drive) TEMPORARY SIGNING PERMANENT SIGNING, STRIPING AND PAVEMENT MESSAGES

Sheet 14 of 16 Sheets

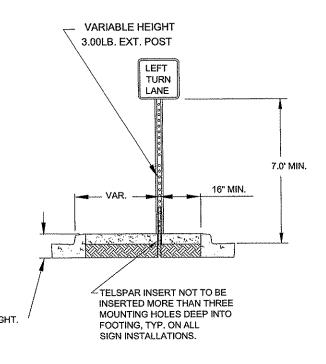




# **GROUND POST MOUNT SIGN** INSTALLATION TYPICAL



## ISLAND MOUNT BREAK-AWAY SIGN INSTALLATION TYPICAL



						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
			ļ	ļ		THE STATE OF MINNESOTA.
			ļ	ļ		PRINT NAME: CHARLES CADENHEAD
				<u></u>		SIGNATURE:
NO	DATE	BY	CKD	APPR	REVISION	DATE: 47/11 LICENSE NO. 40416
NAME: T	:\Traffic\Dwg\	\CR 67\S	Sign&Stri	pe_Details	.dwg	DATE: LICENSE NO.

DRAWN BY MTH DATE 1-21-11

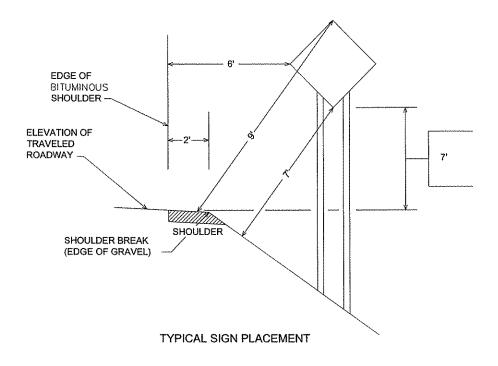


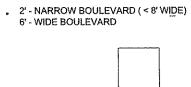
**ANOKA COUNTY** HIGHWAY DEPT.

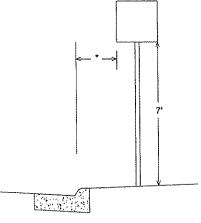
STATE PROJECT NO. STATE PROJECT NO. STATE PROJECT NO. COUNTY PROJECT NO. 11-23-67

SIGNING & STRIPING DETAILS

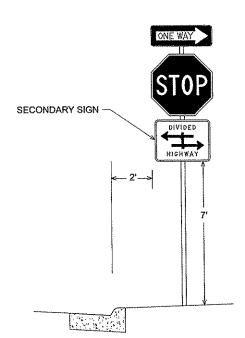
Sheet 15 of 16 Sheets







TYPICAL SIGN PLACEMENT



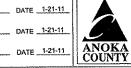
## NOTE:

- ALL DIMENSIONS ARE MINIMUMS
- MAINTAIN 2' CLEAR FROM SIGNS TO BITUMINOUS TRAIL

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						,,,
				***************************************		PI
						St
NO	DATE	BY	CKD	APPR	REVISION	
NAME: 1	:\Traffic\Dwg\	CR 67\!	Sign&Strip	e_Detoils	pwb,dwq	D/

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.

IE STATE OF MINNESOTA.
RINT NAME: CHARLES CADENHEAD
GNATURE:



ANOKA COUNTY HIGHWAY DEPT. STATE PROJECT NO. SIGNING & STRIPING DETAILS
STATE PROJECT NO. STATE PROJECT NO. O2-23-67 Sheet 16 of 16 Sheets