

PLAN SYMBOLS

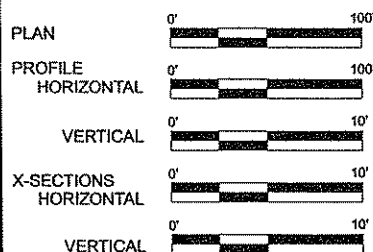
- COUNTY LINE \_\_\_\_\_
- TOWNSHIP OR RANGE LINE \_\_\_\_\_
- SECTION LINE \_\_\_\_\_
- QUARTER LINE \_\_\_\_\_
- SIXTEENTH LINE \_\_\_\_\_
- RIGHT OF WAY LINE \_\_\_\_\_
- SLOPE EASEMENT \_\_\_\_\_
- EXISTING RIGHT OF WAY \_\_\_\_\_
- PROPERTY LINE \_\_\_\_\_
- CORPORATE OR CITY LIMITS \_\_\_\_\_
- RETAINING WALL \_\_\_\_\_
- RAILROAD \_\_\_\_\_
- RAILROAD RIGHT OF WAY \_\_\_\_\_
- RIVER OR CREEK \_\_\_\_\_
- DRAINAGE DITCH \_\_\_\_\_
- CULVERT \_\_\_\_\_
- DROP INLET \_\_\_\_\_
- GUARD RAIL \_\_\_\_\_
- BARBED WIRE FENCE \_\_\_\_\_
- WOVEN WIRE FENCE \_\_\_\_\_
- CHAIN LINK FENCE \_\_\_\_\_
- WOOD FENCE \_\_\_\_\_
- STONE WALL OR FENCE \_\_\_\_\_
- HEDGE \_\_\_\_\_

- LOWLAND
- TIMBER
  - ORCHARD
  - BRUSH
  - NURSERY
  - CATTLE GUARD
  - OVERPASS (Highway Over)
  - UNDERPASS (Highway Under)
  - BRIDGE
  - BUILDING (One Story Frame)
  - F-FRAME C-CONCRETE
  - S-STONE T-TILE
  - B-BRICK ST-STUCCO
  - RAILROAD CROSSING BELL \_\_\_\_\_
  - RAILROAD CROSSING GATE \_\_\_\_\_
  - MANHOLE
  - CATCH BASIN
  - FIRE HYDRANT
  - CAST IRON MONUMENT
  - IRON PIN
  - GRAVEL PIT
  - SAND PIT
  - BORROW PIT
  - ROCK QUARRY

UTILITY SYMBOLS

- POWER POLE LINE
- TELEPHONE OR TELEGRAPH POLE LINE
- JOINT TELEPHONE & POWER ON POWER POLES
- ON TELEPHONE POLES
- ANCHOR
- STEEL TOWER
- STREET LIGHT
- PEDESTAL (Cable Terminal)
- GAS MAIN
- WATER MAIN
- TELEPHONE CABLE IN CONDUIT
- ELECTRIC CABLE IN CONDUIT
- TELEPHONE MANHOLE
- ELECTRIC MANHOLE
- BURIED TELEPHONE CABLE T-BUR
- BURIED ELECTRIC CABLE P-BUR
- SEWER (Sanitary or Storm)
- SEWER MANHOLE

SCALES



# MINNESOTA DEPARTMENT OF TRANSPORTATION

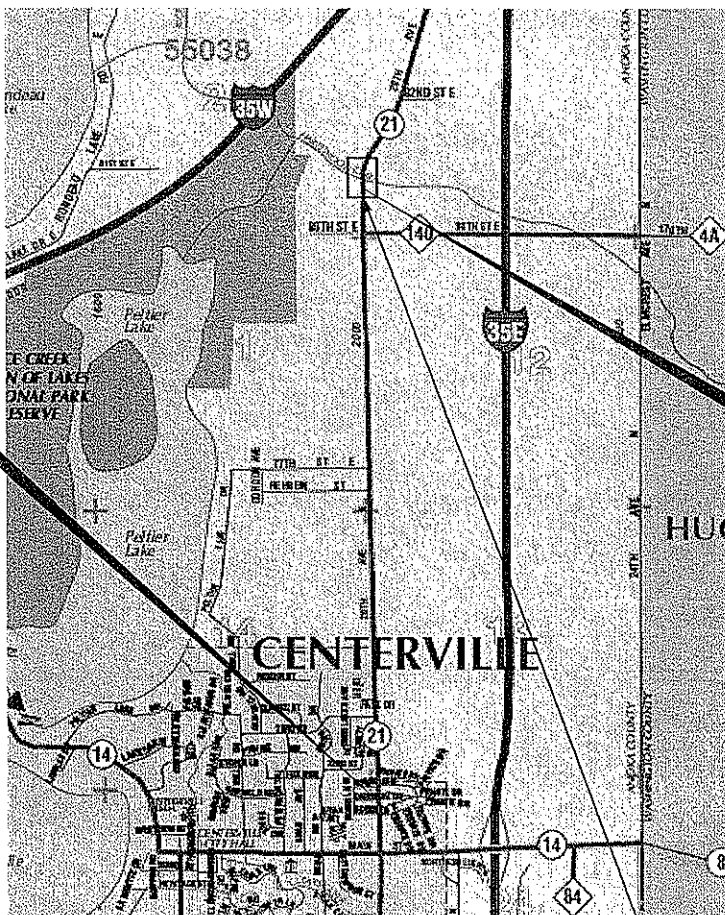
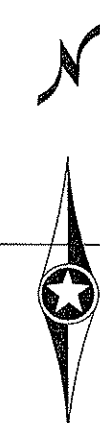
## ANOKA COUNTY

CONSTRUCTION PLAN FOR RECLAIM BITUMINOUS AND OVERLAY  
 LOCATED ON C.S.A.H. 54 BETWEEN NORTH OF CR 140 (60' South of Bridge # 90734) AND SOUTH OF CARDINAL DR.

COUNTY PROJ. NO. C.P. 11-21-54

C.S.A.H. 54

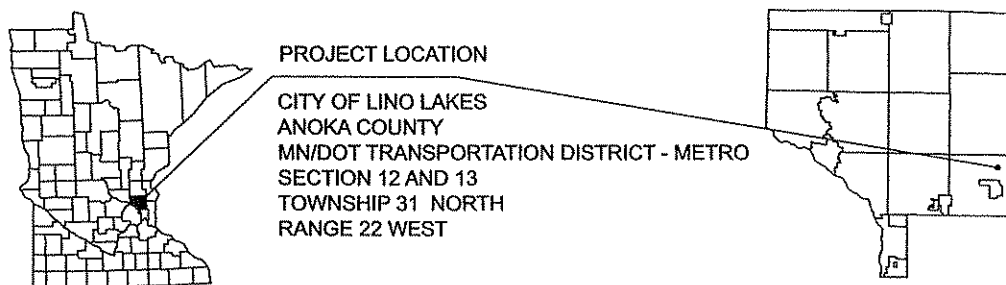
GROSS LENGTH	<u>12287</u> FEET	<u>2.327</u> MILES
BRIDGES-LENGTH	<u>0.00</u> FEET	<u>0.000</u> MILES
EXCEPTIONS-LENGTH	<u>0.00</u> FEET	<u>0.000</u> MILES
NET LENGTH	<u>12287</u> FEET	<u>2.327</u> MILES



CITY OF LINO LAKES

BEGIN C.P. 11-21-54  
C.S.A.H. 54 STA. 96+85

END C.P. 11-21-54  
C.S.A.H. 54 STA. 219+72



DEFICIENT BRIDGE #90734 (WEIGHT RESTRICTION)

M3 -TRUCK	12 TONS
M352-TRUCK-SEMI	20 TONS
M3-3- FULL TRAILER	20 TONS

GOVERNING SPECIFICATIONS

THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE INSTALLED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MNMUTCD), AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3-7	TYPICAL SECTIONS
8-9	DETAILS
10-14	CONSTRUCTION PLAN
15-21	SIGNING & STRIPING PLAN, TAB, & DETAILS

THIS PLAN CONTAINS 21 SHEETS  
DESIGN DESIGNATION

ESAL 20	<u>753300</u>
R VALUE	<u>50</u>
ADT (2009) =	<u>3050</u>
Proj. ADT (2029) =	<u>4575</u>
Proj. HCADT (2029) =	<u>NA</u>
Soil Factor	<u>NA</u>
<u>9</u> TON DESIGN	

Functional Classification A MINOR RELIEVER  
 No. of Traffic Lanes 2 No. of Parking Lanes 0  
 Design Speed 55 MPH N/A  
 Based on Stopping Sight Distance  
 Height of eye 3.5' Height of object 2.0'  
 Design Speed not achieved at:  
 STA. \_\_\_\_\_ TO STA. \_\_\_\_\_ MPH \_\_\_\_\_

Approved: ANOKA COUNTY ENGINEER 4/7/2011

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: CHARLES CADENHEAD  
 SIGNATURE:   
 DATE: 4/7/11 LICENSE NO. 40416

DRAWN BY: KPR DATE: 2/11/11  
 DESIGN BY: KPR DATE: 2/11/11  
 CHECKED BY: JO DATE: \_\_\_\_\_



ANOKA COUNTY  
HIGHWAY DEPT.

STATE PROJECT NO. \_\_\_\_\_  
 STATE AID PROJECT NO. \_\_\_\_\_  
 CITY PROJECT NO. \_\_\_\_\_  
 COUNTY PROJECT NO. 11-21-54

TITLE SHEET

Sheet 1 of 21 Sheets

CSAH 54 NORTH		STATEMENT OF ESTIMATED QUANTITIES		
ITEM NO.	ITEM	NOTE NO.	UNIT	TOTAL EST. QUANT.
2021.501	MOBILIZATION		LUMP SUM	1
2104.505	REMOVE CONCRETE DRIVEWAY PAVEMENT		SQ YD	20
2104.511	SAWING CONCRETE PAVEMENT (FULL DEPTH)	1	LIN FT	14
2123.503	MOTOR GRADER		HOUR	47
2123.521	PNEUMATIC-TIRED ROLLER		HOUR	47
2130.501	WATER		M-GAL	163
2211.501	AGGREGATE BASE CLASS 5	3	TON	1826
2221.501	AGGREGATE SHOULDERING CLASS 5	4	TON	965
2232.501	MILL BITUMINOUS SURFACE (2") ( JOINTS )	1	SQ YD	218
2331.604	BITUMINOUS PAVEMENT RECLAMATION		SQ YD	51314
2357.502	BITUMINOUS MATERIAL FOR TACK COAT		GALLON	1918
2360.501	TYPE SP 12.5 WEARING COURSE MIX (4,B)	2,5	TON	161
2360.501	TYPE SP 12.5 WEARING COURSE MIX (4,E)		TON	5807
2360.502	TYPE SP 12.5 NON WEAR COURSE MIX (4,B)		TON	4249
2531.507	6" CONCRETE DRIVEWAY PAVEMENT	2	SQ YD	20
2540.602	INSTALL MAIL BOX SUPPORT	9	EACH	24
2583.601	TRAFFIC CONTROL	1,7	LUMP SUM	1
2581.501	REMOVABLE PREFORMED PLASTIC MARKING	6	LIN FT	1966
2582.502	4" SOLID LINE WHITE - EPOXY	8	LIN FT	24212
2582.502	4" SOLID LINE YELLOW-EPOXY	8	LIN FT	1987
2582.502	4" BROKEN LINE YELLOW-EPOXY	8	LIN FT	1740
2582.502	4" DOUBLE SOLID LINE YELLOW-EPOXY	8	LIN FT	5159
2582.602	PAVT MSSG (LT ARROW) PREF THERMOPLASTIC	8	EACH	3
2582.602	PAVT MSSG (RT ARROW) PREF THERMOPLASTIC	8	EACH	2
2582.603	24" SOLID LINE YELLOW-PREFORMED THRMOPLASTIC	8	LIN FT	482

NOTES:

- 1 LOCATION TO BE DETERMINED BY ENGINEER.
- 2 CONTRACTOR SHALL CORDINATE WITH PROPERTY OWNER A MINIMUM OF 24 HOURS BEFORE OPERATION BEGINS.
- 3 LEVELING SHOULDER UP TO MAINLINE BASE COURSE.
- 4 MATERIAL FOR FINISHED 1.5' GRAVEL SHOULDER AND GRAVEL ENTRANCES.
- 5 ITEM USED TO PAVE STREET APPROACHES AND DRIVEWAYS.
- 6 CL YELLOW SKIPS TO BE APPLIED AS SOON AS POSSIBLE (MUST BE APPLIED BEFORE CONTRACTOR LEAVES FOR THE DAY).
- 7 DO NOT PASS, PASS WITH CARE, NO CENTER STRIPE, AND BUMP / BUMP AHEAD SIGNS TO BE INPLACE DURING RECLAIM / OVERLAY OPERATIONS.
- 8 MARKINGS SHALL BE IN PLACE WITH IN 72 HOURS OF FINAL MAINLINE PAVING.
- 9 MAILBOXES TO BE INSTALLED AT THE EXISTING MAILBOX LOCATION.

BASIS OF PLANNED QUANTITIES

2211.501	AGGREGATE BASE CLASS 5	CU YDS * 1.8 = TONS
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) 2" THICK	115 LBS/SQYD/IN THICKNESS
2360.502	TYPE SP 12.5 NON-WEARING COURSE (SPNWB440E) 2" THICK	115 LBS/SQYD/IN THICKNESS
2581.501	REMOVABLE PREFORM PLASTIC MARKINGS	2' AT 50' INTERVALS FOR SKIPS

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\11-01-00\CSAH\_54\_(CR140-South)\Plan\seq2.dgn      04/05/2011      3:51:54 PM

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: CHARLES CADENHEAD  
SIGNATURE: *[Signature]*  
DATE: 4/7/11      LICENSE NO. 40418

DRAWN BY: KPR      DATE: 2/11/11  
DESIGN BY: KPR      DATE: 2/11/11  
CHECKED BY: JO      DATE:

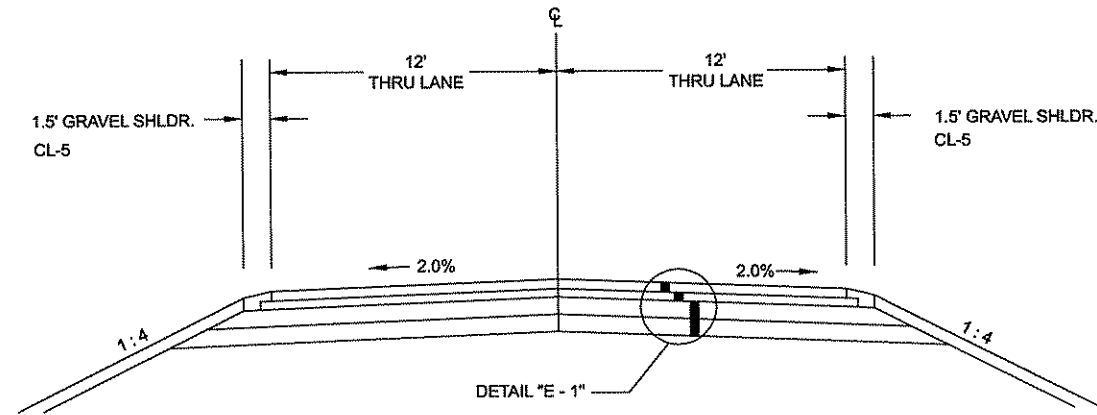


**ANOKA COUNTY**  
**HIGHWAY DEPT.**

STATE PROJECT NO. \_\_\_\_\_  
STATE AID PROJECT NO. \_\_\_\_\_  
CITY PROJECT NO. \_\_\_\_\_  
COUNTY PROJECT NO. 11-21-54

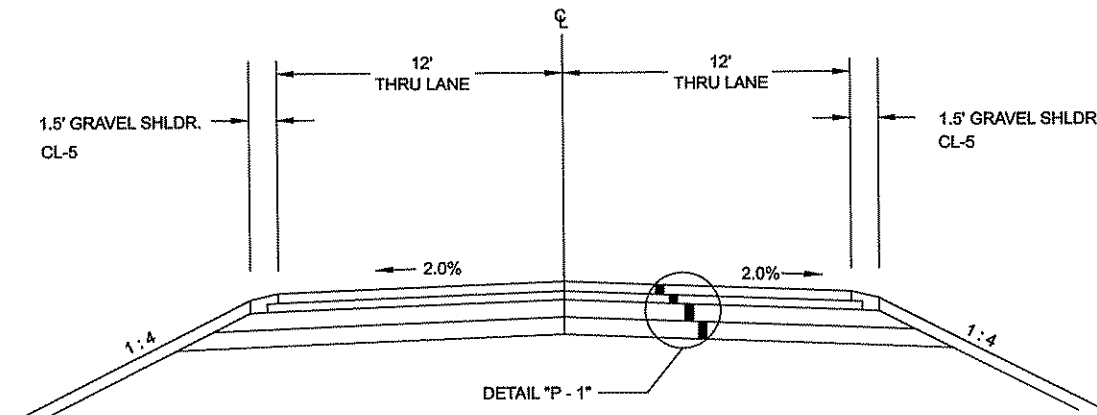
STATEMENT OF ESTIMATED QUANTITIES  
Sheet 2 of 21 Sheets

**EXISTING TYPICAL SECTION**

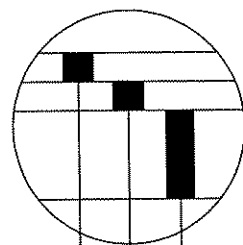


**PROPOSED TYPICAL SECTION**

STA. 208+25 - 219+72

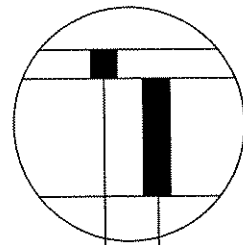


**DETAIL "E - 1"**



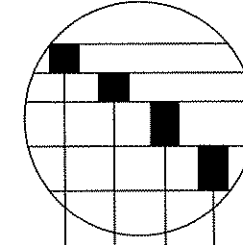
APPROX. 2.0" WEAR COURSE  
 APPROX. 2.0" BINDER COURSE  
 EXISTING BASE MATERIAL

**DETAIL "E - 2"**



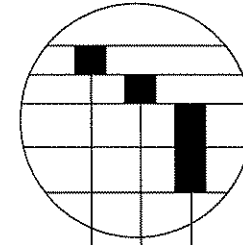
APPROX. 2.0" WEAR COURSE  
 EXISTING BASE MATERIAL

**DETAIL "P - 1"**



2" TYP SP 12.5 WEARING COURSE (SPWEB440E)  
 2" TYPE SP 12.5 NON WEARING COURSE (SPNWB440B)  
 RECLAIM EXISTING BIT / AGG. BASE  
 EXISTING BASE MATERIAL

**DETAIL "S - 1"**



2" TYP SP 12.5 WEARING COURSE (SPWEB440E)  
 2" AGGREGATE BASE CL - 5 LEVELING  
 RECLAIM EXISTING BIT / AGGREGATE BASE

NO	DATE	BY	CHKD	APPR	REVISION

NAME: P:111-01-00\CSAH\_54\_(CR140-South)\Plantyp2.dgn      04/05/2011      3:52:48 PM

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: CHARLES CADENHEAD  
 SIGNATURE: *[Signature]*  
 DATE: 4/7/11      LICENSE NO. 40416

DRAWN BY: KPR      DATE: 2/11/11  
 DESIGN BY: KPR      DATE: 2/11/11  
 CHECKED BY: JO      DATE:     

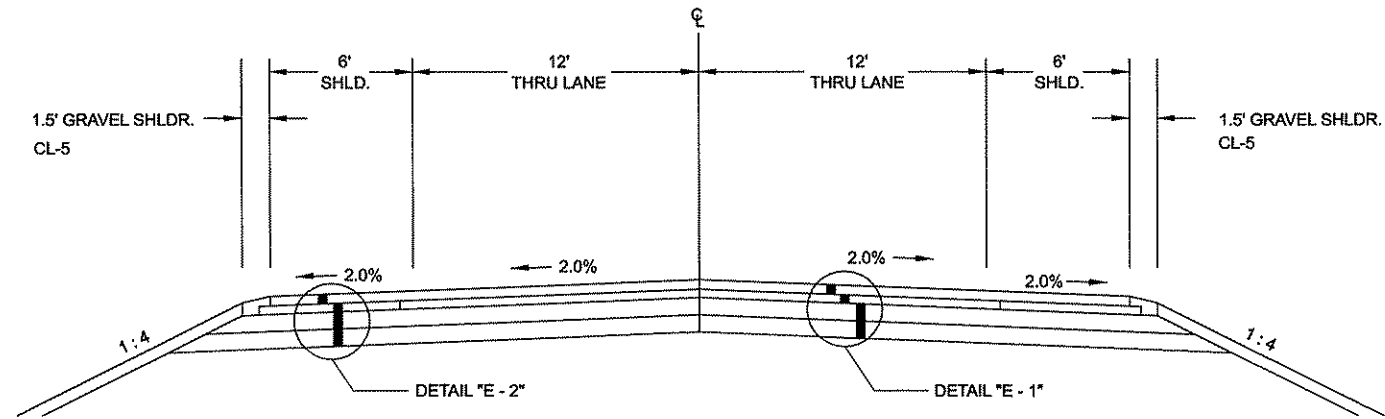


**ANOKA COUNTY  
 HIGHWAY DEPT.**

STATE PROJECT NO. \_\_\_\_\_  
 STATE AID PROJECT NO. \_\_\_\_\_  
 CITY PROJECT NO. \_\_\_\_\_  
 COUNTY PROJECT NO. 11-21-54

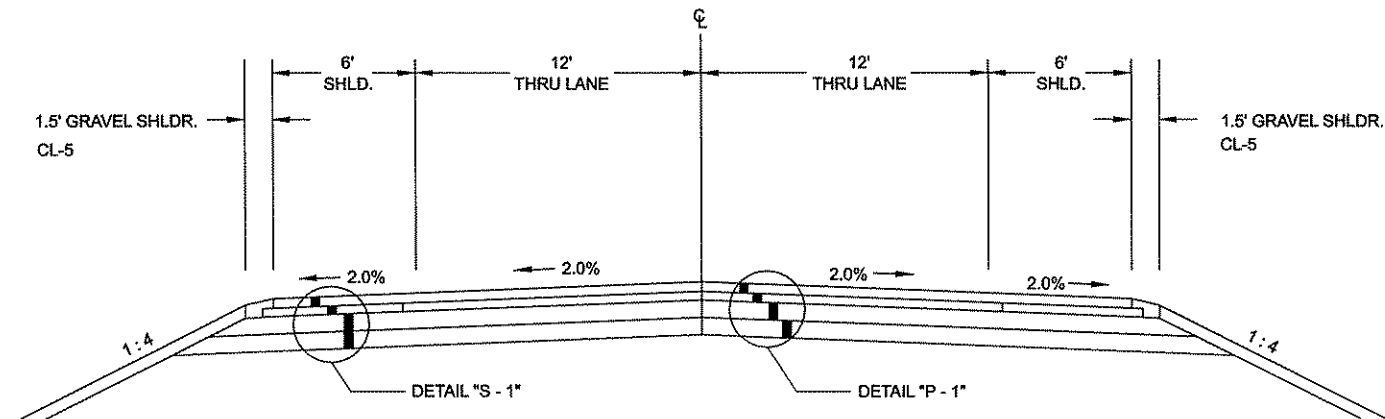
TYPICAL SECTION  
 Sheet 3 of 21 Sheets

**EXISTING TYPICAL SECTION**



**PROPOSED TYPICAL SECTION**

STA. 96+85 - 164+81, 185+04 - 208+25



NO	DATE	BY	CHKD	APPR	REVISION

NAME: P:\11-01-00\CSAH\_54\_(CR140-South)\Plan\typ2.dgn 03/18/2011 8:31:40 AM

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: CHARLES CADENHEAD  
 SIGNATURE: *[Signature]*  
 DATE: 4/9/11 LICENSE NO. 40416

DRAWN BY KPR DATE 2/11/11  
 DESIGN BY KPR DATE 2/11/11  
 CHECKED BY JO DATE



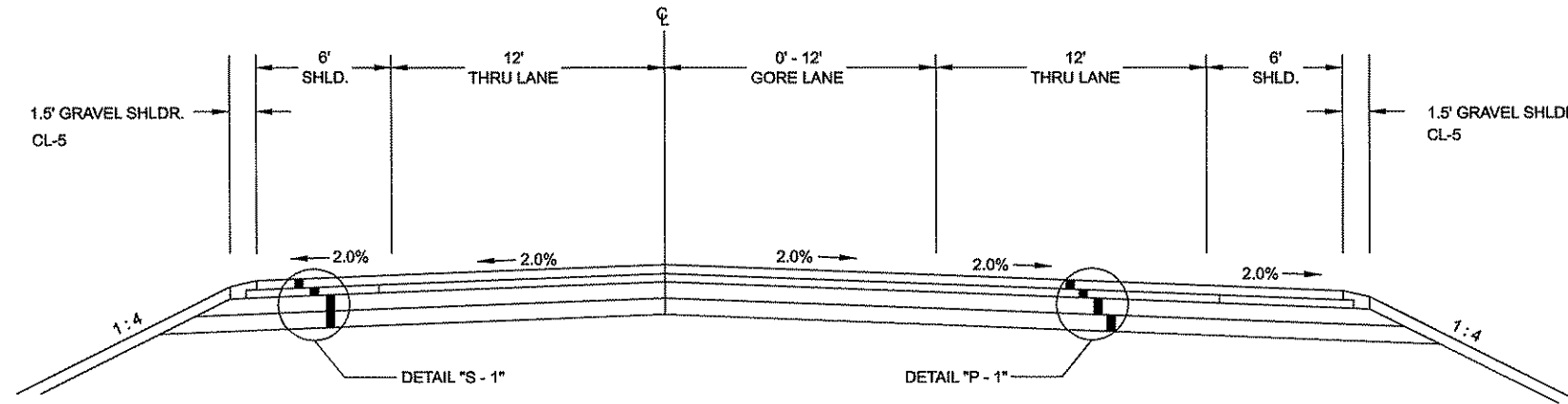
**ANOKA COUNTY  
 HIGHWAY DEPT.**

STATE PROJECT NO. \_\_\_\_\_  
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 CITY PROJECT NO. \_\_\_\_\_  
 COUNTY PROJECT NO. 11-21-54

TYPICAL SECTION  
 Sheet 4 of 21 Sheets

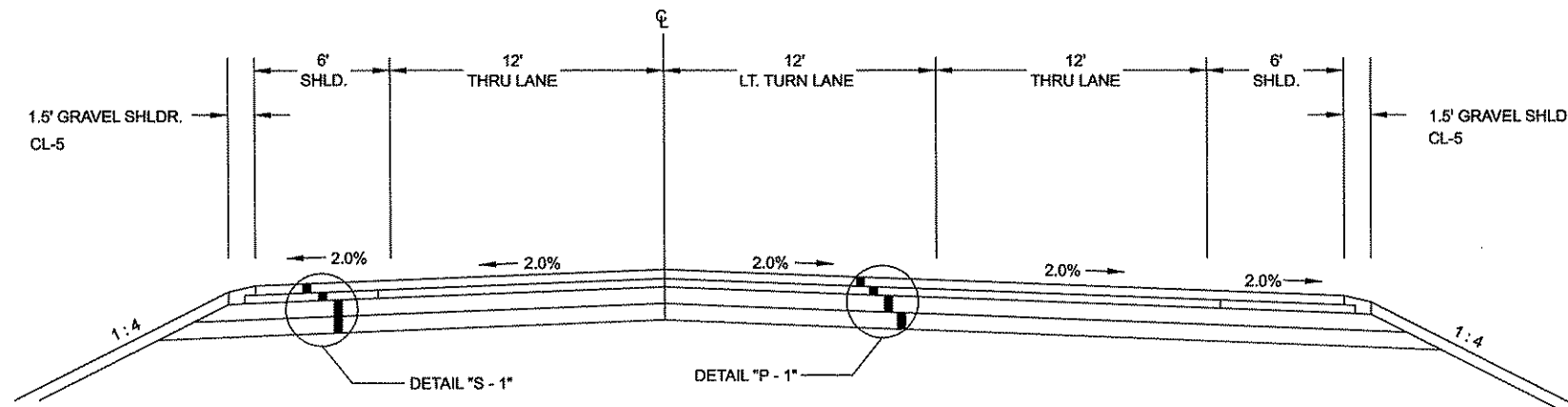
PROPOSED TYPICAL SECTION (SPEED TO 1 FOR LT. TURN LANE)

STA. 163+31 - 169+91



PROPOSED TYPICAL SECTION (LT. TURN LANE LNB)

STA. 169+91 - 177+71



NO	DATE	BY	CHKD	APPR	REVISION

NAME: P:\11-01-00\CSAH\_54\_(CR140-South)\Plan\typ2.dgn 03/18/2011 8:32:08 AM

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PRINT NAME: CHARLES CADENHEAD  
 SIGNATURE: *[Signature]*  
 DATE: 4/7/11 LICENSE NO. 40416

DRAWN BY: KPR DATE: 2/11/11  
 DESIGN BY: KPR DATE: 2/11/11  
 CHECKED BY: JO DATE: \_\_\_\_\_



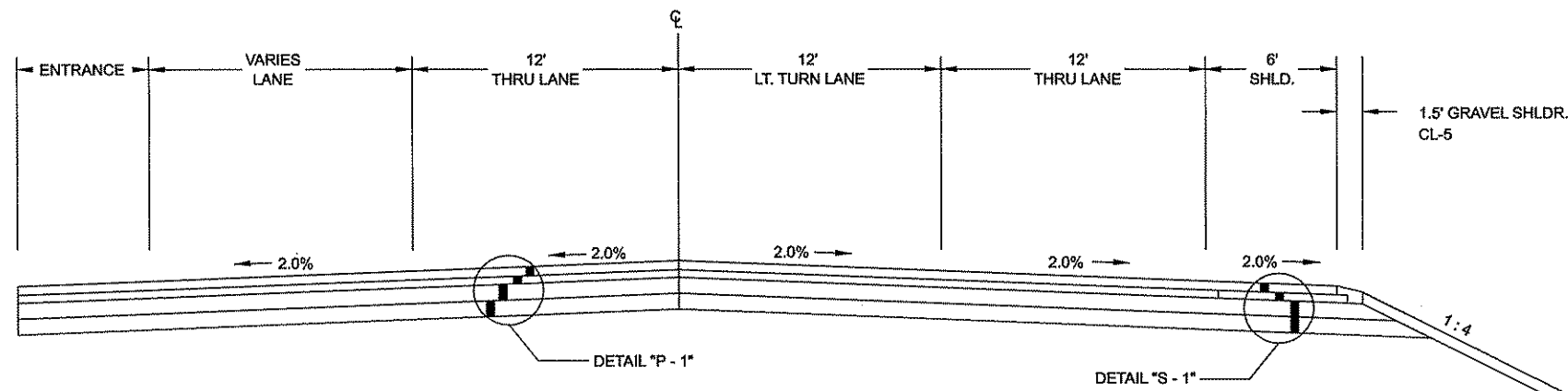
**ANOKA COUNTY  
HIGHWAY DEPT.**

STATE PROJECT NO. \_\_\_\_\_  
 STATE AID PROJECT NO. \_\_\_\_\_  
 CITY PROJECT NO. \_\_\_\_\_  
 COUNTY PROJECT NO. 11-21-54

TYPICAL SECTION  
 Sheet 5 of 21 Sheets

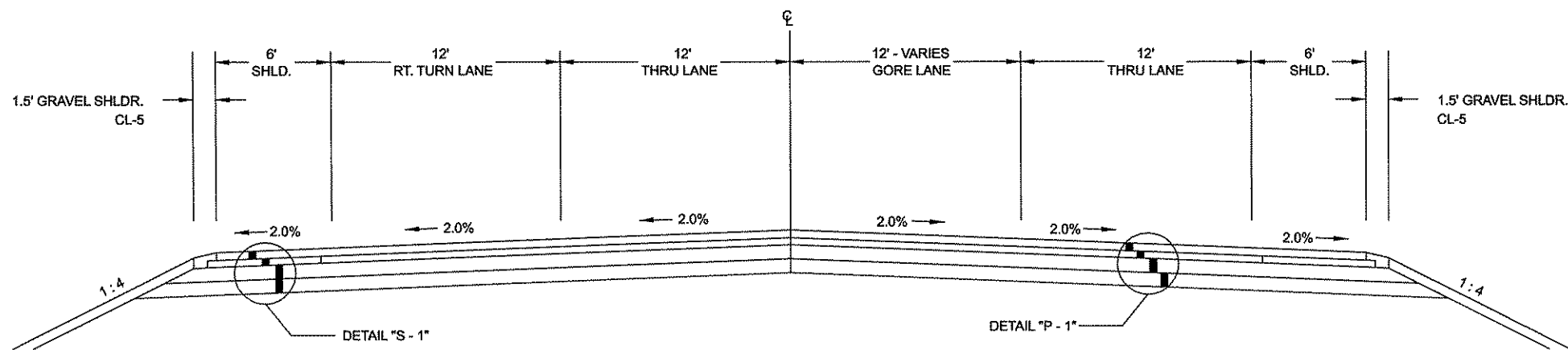
PROPOSED TYPICAL SECTION (TRANSITION THRU CHURCH ENTRANCE)

STA. 177+71 - 178+44



PROPOSED TYPICAL SECTION (RT. TURN LANE LSB & BEG SPEED TO 1 LNB)

STA. 178+44 - 181+44



NO	DATE	BY	CHKD	APPR	REVISION
NAME: P:\11-01-00\CSAH_54_(CR140-South)\Plan\typ2.dgn					
03/18/2011 8:32:32 AM					

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: CHARLES CADENHEAD  
 SIGNATURE: *[Signature]*  
 DATE: 2/7/11 LICENSE NO. 40416

DRAWN BY KPR DATE 2/11/11  
 DESIGN BY KPR DATE 2/11/11  
 CHECKED BY JO DATE



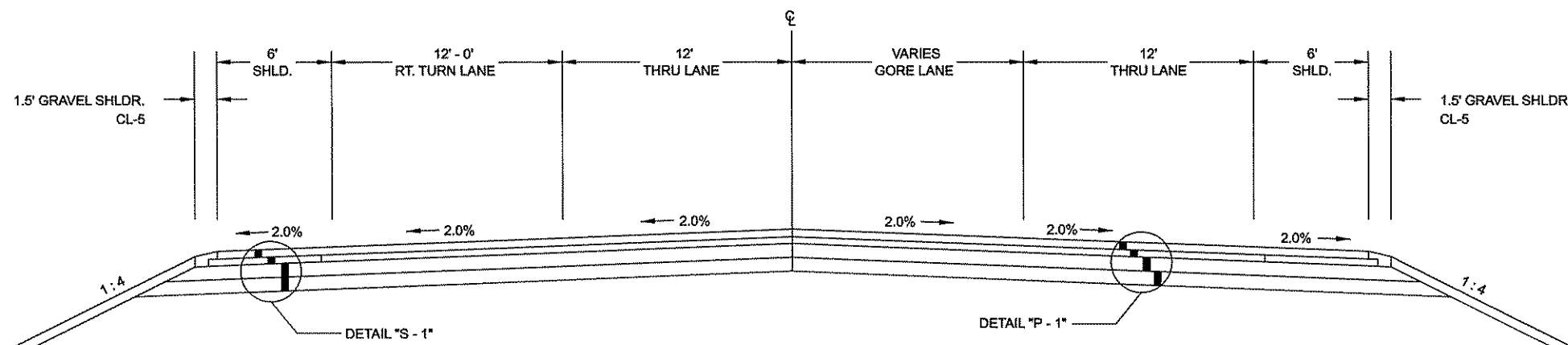
ANOKA COUNTY  
 HIGHWAY DEPT.

STATE PROJECT NO. \_\_\_\_\_  
 STATE AID PROJECT NO. \_\_\_\_\_  
 CITY PROJECT NO. \_\_\_\_\_  
 COUNTY PROJECT NO. 11-21-54

TYPICAL SECTION  
 Sheet 6 of 21 Sheets

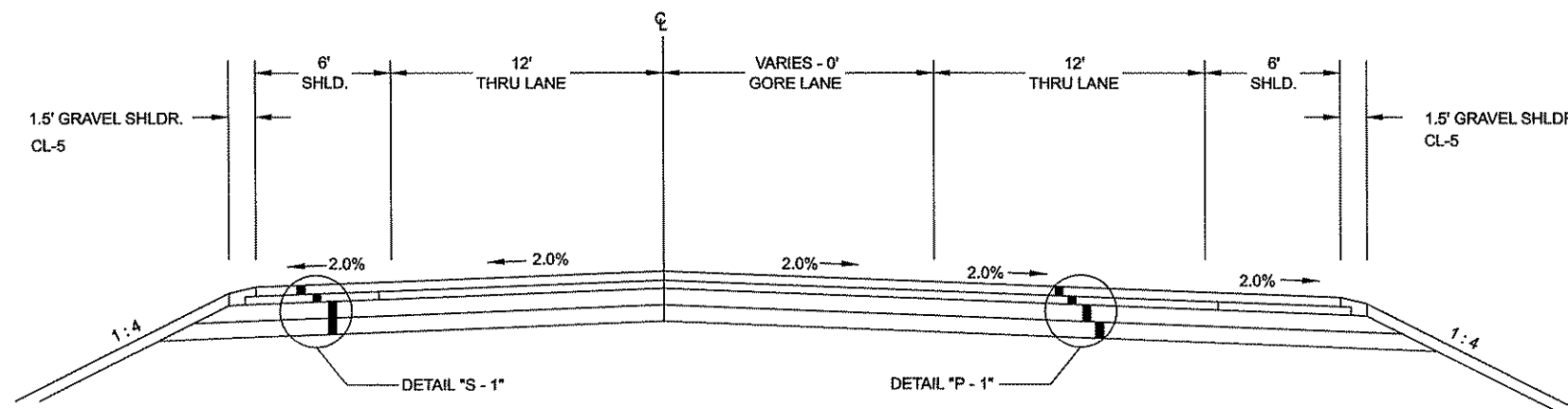
PROPOSED TYPICAL SECTION (BEG TAPER LSB & SPEED TO 1 LNB)

STA 181+44 - 183+24



PROPOSED TYPICAL SECTION (END TAPER & END SPEED TO 1)

STA. 183+24 - 185+04



NO	DATE	BY	CKD	APPR	REVISION
NAME: P:111-01-00\CSAH_54_(CR140-South)\Plan\typ2.dgn					
03/18/2011 8:33:08 AM					

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: CHARLES CADENHEAD  
 SIGNATURE: *[Signature]*  
 DATE: 4/27/11 LICENSE NO. 40416

DRAWN BY KPR DATE 2/11/11  
 DESIGN BY KPR DATE 2/11/11  
 CHECKED BY JO DATE



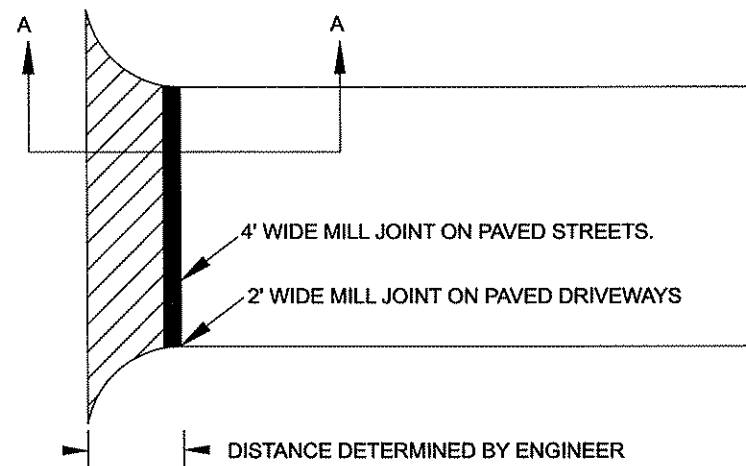
ANOKA COUNTY  
 HIGHWAY DEPT.

STATE PROJECT NO. \_\_\_\_\_  
 STATE AID PROJECT NO. \_\_\_\_\_  
 CITY PROJECT NO. \_\_\_\_\_  
 COUNTY PROJECT NO. 11-21-54

TYPICAL SECTION  
 Sheet 7 of 21 Sheets

PAVED DRIVEWAYS / PAVED STREETS

JOINT DETAILS

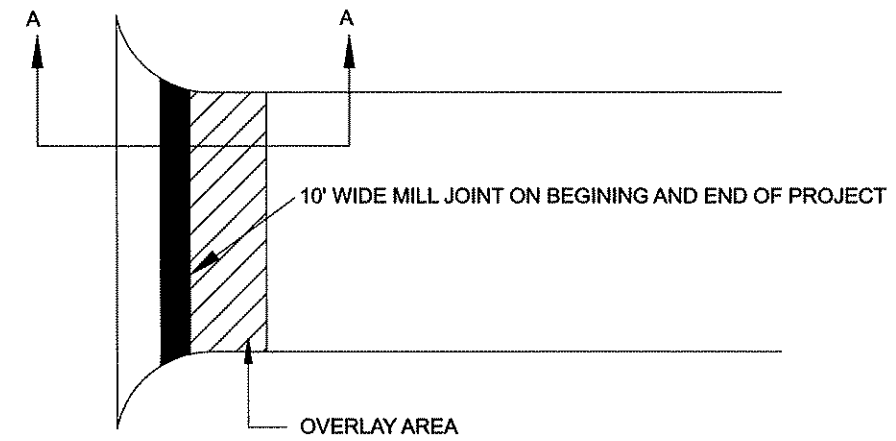


DRIVEWAYS BUMPED OUT TO BE PAVED WITH MAINLINE, PAID AS MAINLINE.  
 DRIVEWAYS PAVED IN DIFFERENT OPERATION FROM MAIN LINE PAVING PAID AS ST./DR. APPROACH.  
 STREETS PAID AS ST./DR. APPROACH.

DISTANCE DETERMINED BY ENGINEER

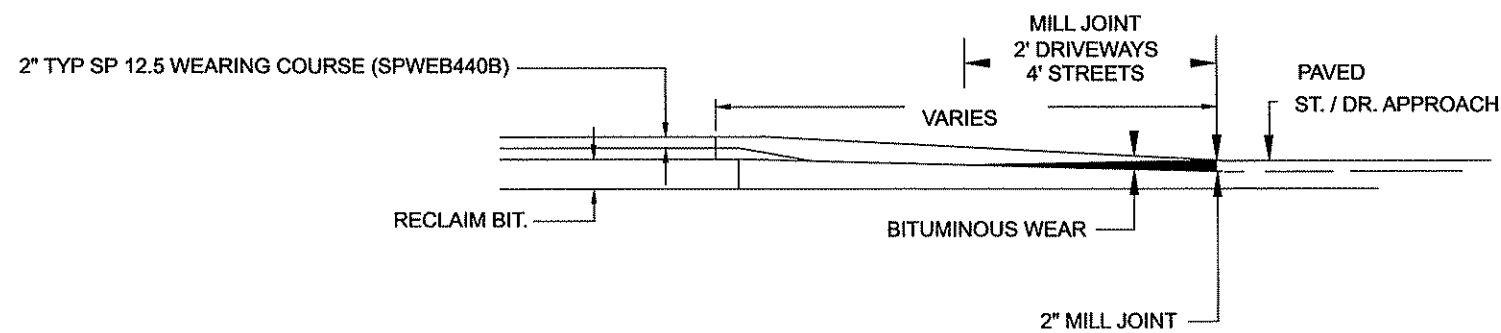
MAINLINE

JOINT DETAILS



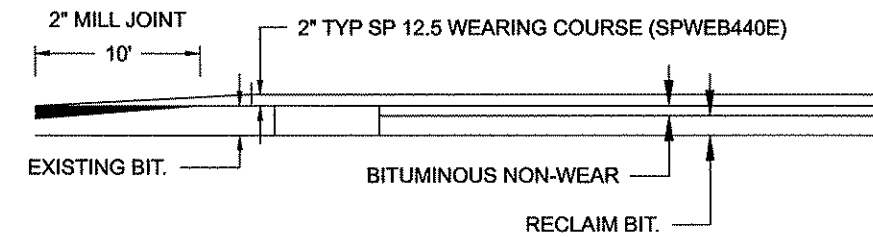
GRADING NEEDED TO TIE NONWEAR INTO EXISTING PAVING. TO BE PAID UNDER 2123.503 MOTOR GRADER HOURS

JOINT DETAILS A - A



PAID AS STREET APPROACH

JOINT DETAILS A - A



NO	DATE	BY	CHKD	APPR	REVISION

NAME: P:\11-01-00\CSAH\_54\_(CR140-South)\Plan\det2.dgn 03/18/2011 8:34:13 AM

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: CHARLES CADENHEAD  
 SIGNATURE: *[Signature]*  
 DATE: 9/7/11 LICENSE NO. 40416

DRAWN BY KPR DATE 2/11/11  
 DESIGN BY KPR DATE 2/11/11  
 CHECKED BY JO DATE



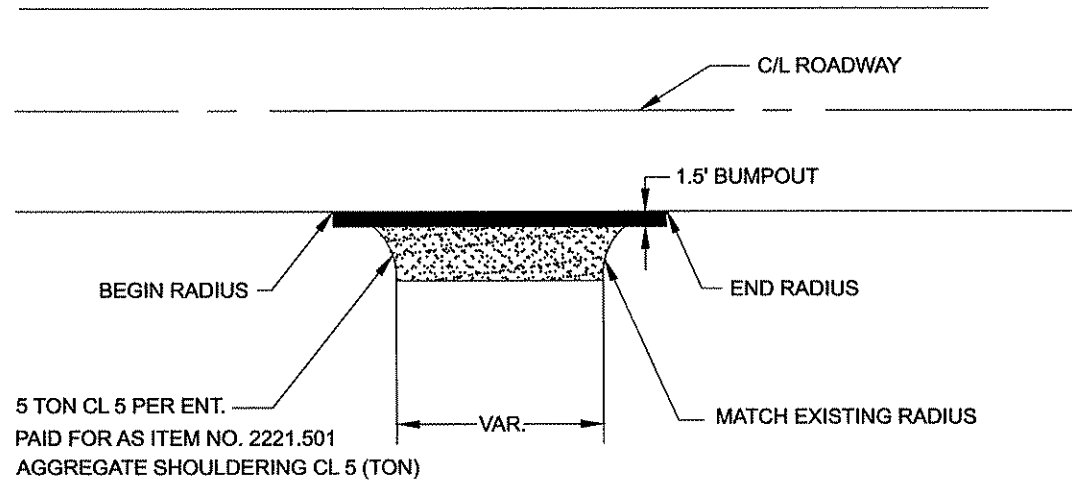
ANOKA COUNTY  
 HIGHWAY DEPT.

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 COUNTY PROJECT NO. 11-21-54

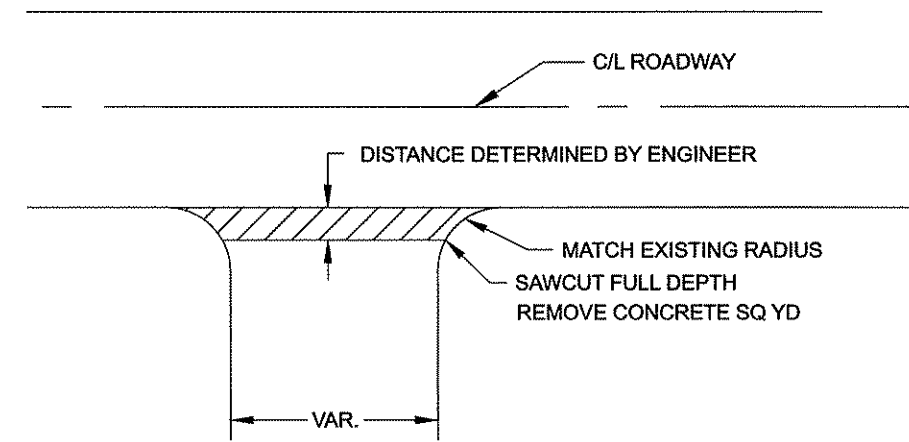
MISCELLANEOUS DETAILS



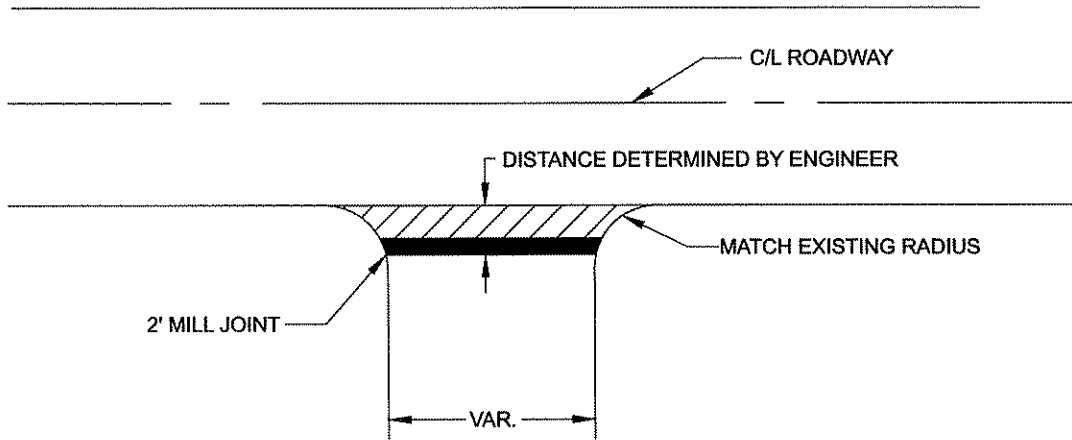
GRAVEL DR. WAYS AND FEILD ENT.



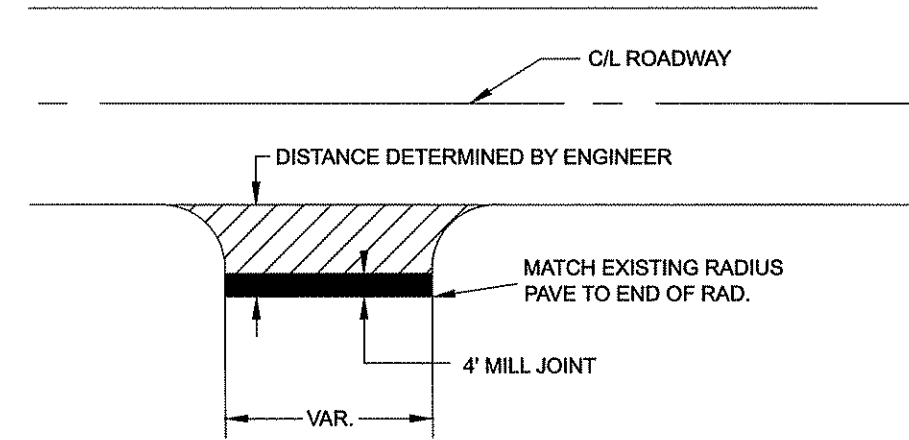
CONCRETE DR. WAYS



PAVED DR. WAYS



PAVED STREET APPROACHES



DRIVEWAYS BUMPED OUT AND PAVED WITH MAINLINE PAID AS MAINLINE.  
 DRIVEWAYS PAVED IN DIFFERENT OPERATION FROM MAIN LINE PAVING PAID AS ST./DR. APPROACH.

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\11-01-00\CSAH\_54\_(CR140-South)\Plan\det2.dgn 03/18/2011 8:34:47 AM

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: CHARLES CADENHEAD  
 SIGNATURE: *[Signature]*  
 DATE: 4/7/11 LICENSE NO. 40416


DRAWN BY: KPR DATE: 2/11/11  
 DESIGN BY: KPR DATE: 2/11/11  
 CHECKED BY: JO DATE: \_\_\_\_\_





**ANOKA COUNTY**  
**HIGHWAY DEPT.**

STATE PROJECT NO. \_\_\_\_\_  
 STATE AID PROJECT NO. \_\_\_\_\_  
 CITY PROJECT NO. \_\_\_\_\_  
 COUNTY PROJECT NO. 11-21-54

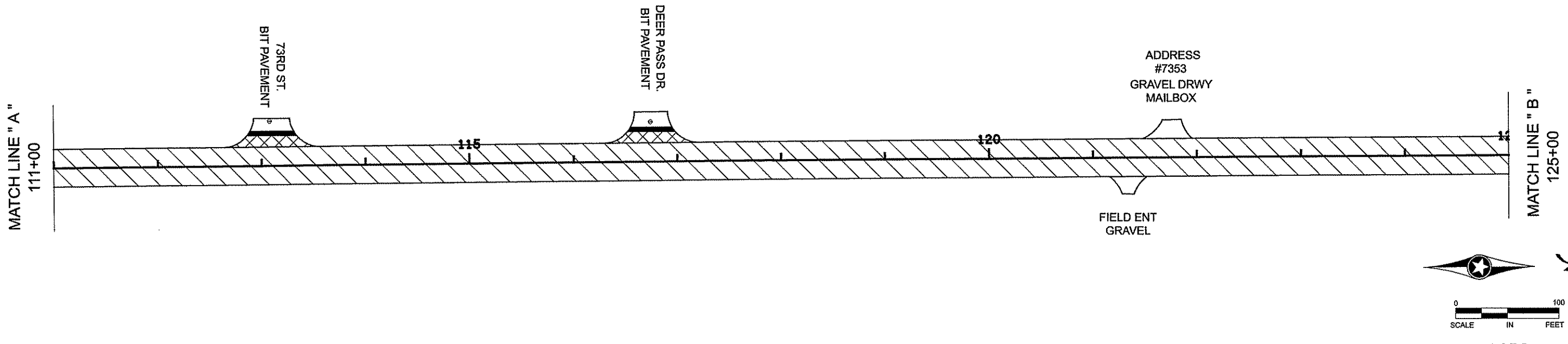
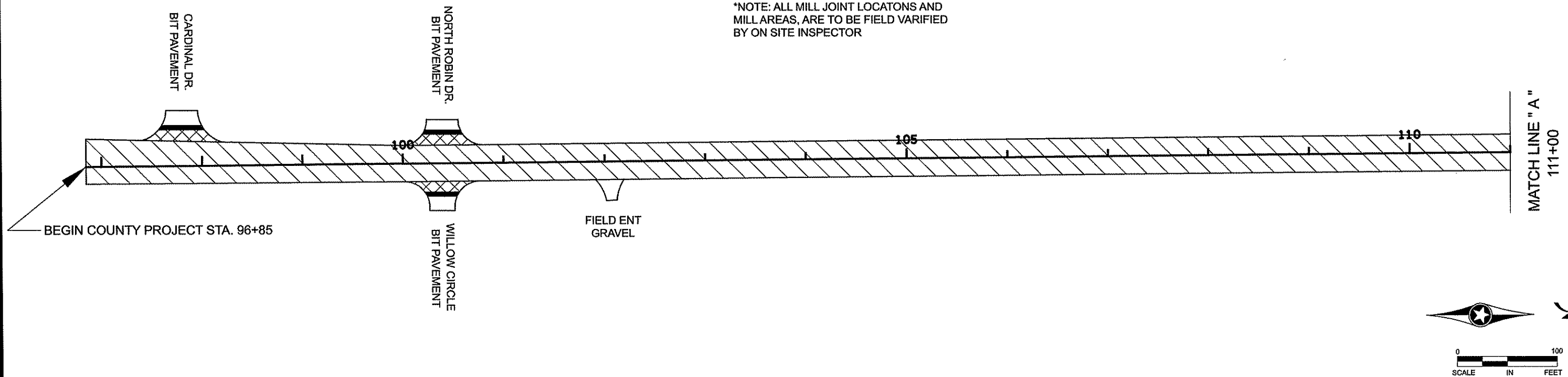
MISCELLANEOUS DETAILS  
 Sheet 9 of 21 Sheets

RECLAIM AREA 

DRIVEWAYS AND APPROACHES 

MILL JOINT LOCATION 

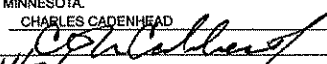
\*NOTE: ALL MILL JOINT LOCATIONS AND MILL AREAS, ARE TO BE FIELD VARIFIED BY ON SITE INSPECTOR



NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\11-01-00\CSAH\_54\_(CR140-South)\Plan\plan2.dgn 03/18/2011 8:35:56 AM

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: CHARLES CADENHEAD  
 SIGNATURE:   
 DATE: 4/7/11 LICENSE NO. 40416

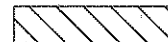
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 DESIGN BY: KPR DATE: 2/11/11  
 CHECKED BY: JO DATE:  



STATE PROJECT NO. \_\_\_\_\_  
 STATE AID PROJECT NO. \_\_\_\_\_  
 CITY PROJECT NO. \_\_\_\_\_  
 COUNTY PROJECT NO. 11-21-54

CONSTRUCTION PLAN  
 STA 96+85 TO 125+00  
 Sheet 10 of 21 Sheets

RECLAIM AREA



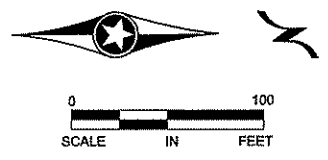
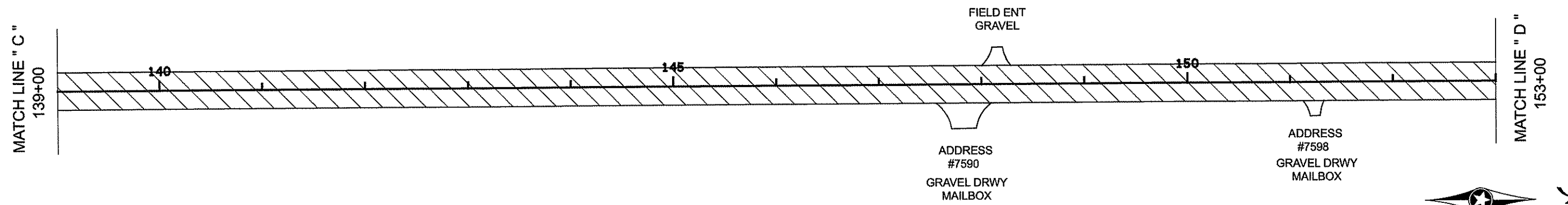
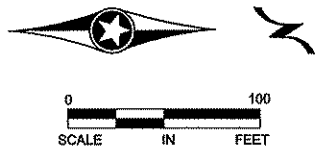
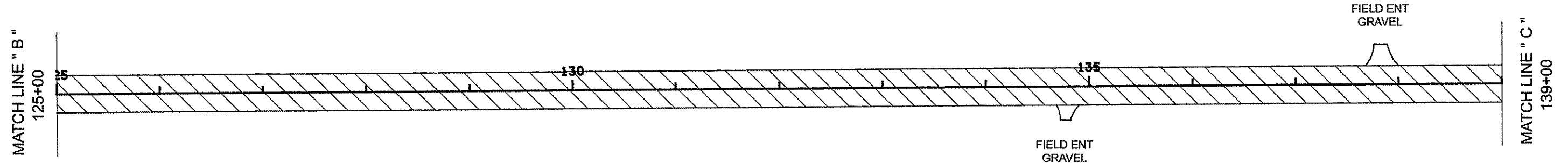
DRIVEWAYS AND APPROACHES



MILL JOINT LOCATION



\*NOTE: ALL MILL JOINT LOCATIONS AND MILL AREAS, ARE TO BE FIELD VARIFIED BY ON SITE INSPECTOR



2 OF 5

NO	DATE	BY	CHKD	APPR	REVISION

NAME: P:\11-01-00\CSAH\_54\_(CR140-South)\Plan\plan2.dgn 03/18/2011 8:36:28 AM

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: CHARLES CADENHEAD  
 SIGNATURE: *[Signature]*  
 DATE: 4/7/11 LICENSE NO. 40416

DRAWN BY: KPR DATE: 2/11/11  
 DESIGN BY: KPR DATE: 2/11/11  
 CHECKED BY: JO DATE: \_\_\_\_\_



STATE PROJECT NO. \_\_\_\_\_  
 STATE AID PROJECT NO. \_\_\_\_\_  
 CITY PROJECT NO. \_\_\_\_\_  
 COUNTY PROJECT NO. 11-21-54

CONSTRUCTION PLAN  
 STA 125+00 TO 153+00  
 Sheet 11 of 21 Sheets

RECLAIM AREA



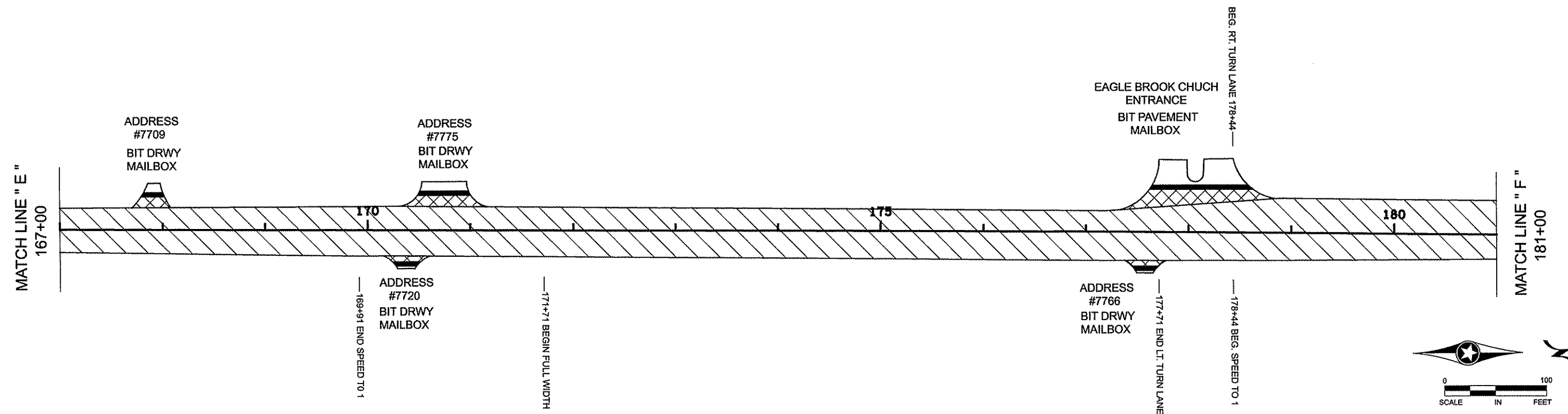
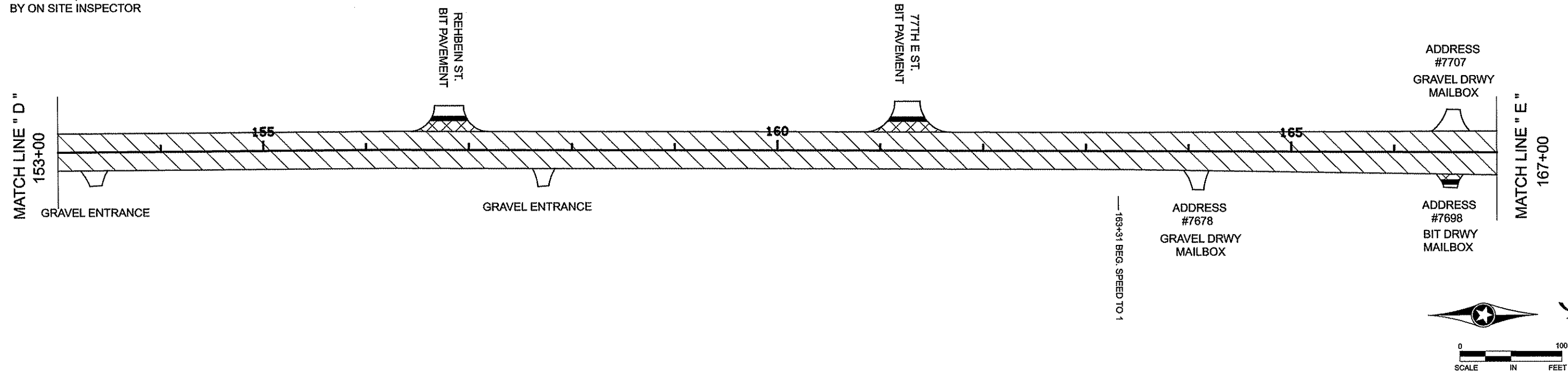
DRIVEWAYS AND APPROACHES



MILL JOINT LOCATION



\*NOTE: ALL MILL JOINT LOCATIONS AND MILL AREAS, ARE TO BE FIELD VARIFIED BY ON SITE INSPECTOR



NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\11-01-00\CSAH\_54 (CR140-South)\Plan\plan2.dgn 03/18/2011 8:36:58 AM

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: CHARLES CADENHEAD

SIGNATURE: *[Signature]*

DATE: *[Date]* LICENSE NO. 40416

DRAWN BY KPR DATE 2/11/11

DESIGN BY KPR DATE 2/11/11

CHECKED BY JO DATE



STATE PROJECT NO. \_\_\_\_\_

STATE AID PROJECT NO. \_\_\_\_\_

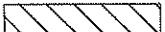


CITY PROJECT NO. \_\_\_\_\_

COUNTY PROJECT NO. 11-21-54

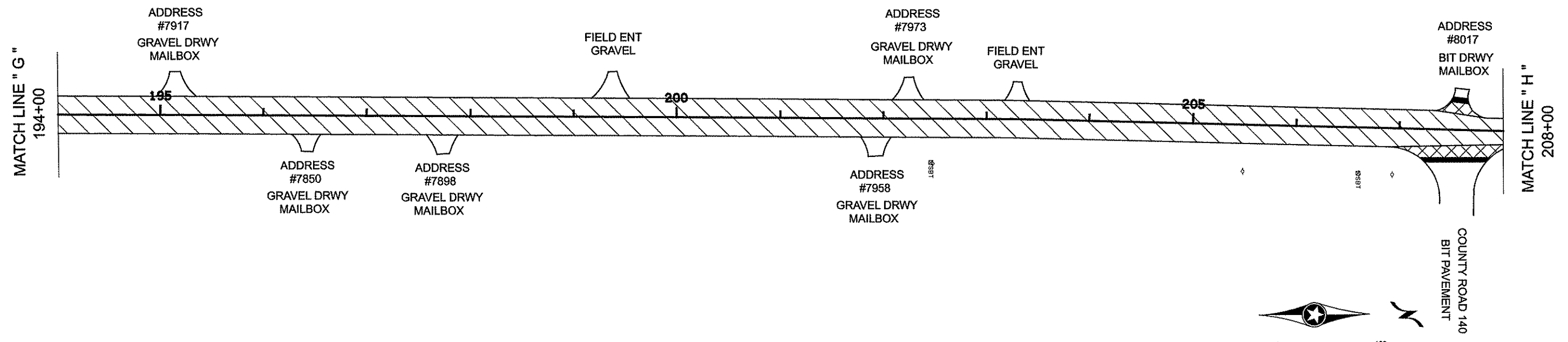
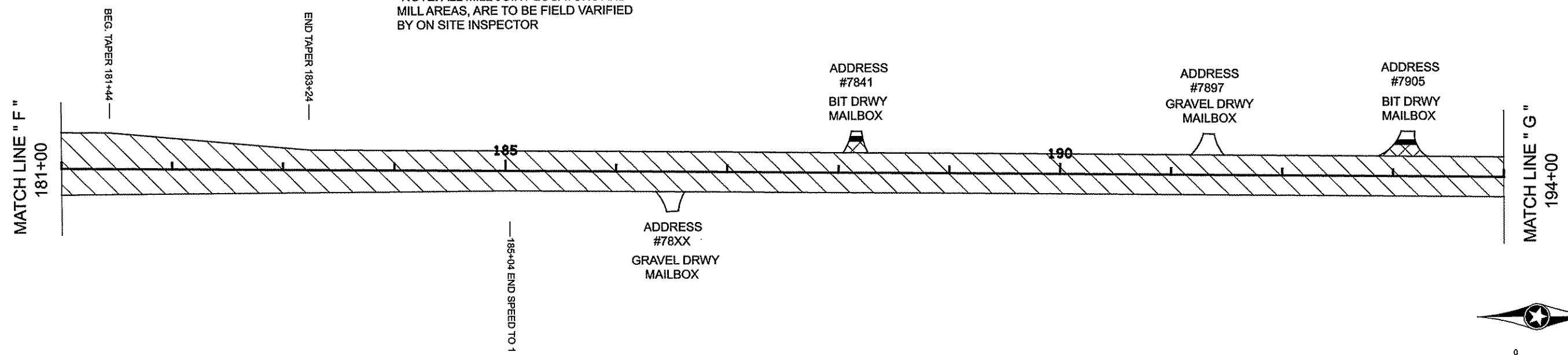
CONSTRUCTION PLAN

STA 153+00 TO 181+00

Sheet 12 of 21 Sheets

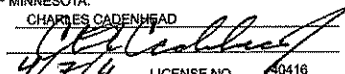
RECLAIM AREA   
 DRIVEWAYS AND APPROACHES   
 MILL JOINT LOCATION 

\*NOTE: ALL MILL JOINT LOCATIONS AND MILL AREAS, ARE TO BE FIELD VARIFIED BY ON SITE INSPECTOR



NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\11-01-00\CSAH\_54\_(CR140-South)\Plan\plan2.dgn 03/18/2011 8:37:38 AM

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: CHARLES CADENHEAD  
 SIGNATURE:   
 DATE: 4/7/11 LICENSE NO. 40416

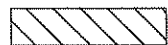
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 CHECKED BY: JO DATE: \_\_\_\_\_



STATE PROJECT NO. \_\_\_\_\_  
 STATE AID PROJECT NO. \_\_\_\_\_  
 CITY PROJECT NO. \_\_\_\_\_  
 COUNTY PROJECT NO. 11-21-54

CONSTRUCTION PLAN  
 STA 181+00 TO 208+00  
 Sheet 13 of 21 Sheets

RECLAIM AREA



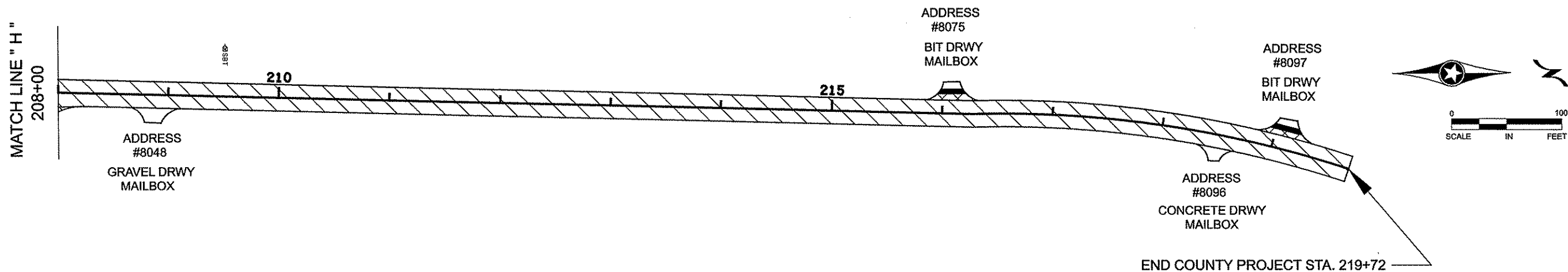
DRIVEWAYS AND APPROACHES



MILL JOINT LOCATION



\*NOTE: ALL MILL JOINT LOCATIONS AND MILL AREAS, ARE TO BE FIELD VARIFIED BY ON SITE INSPECTOR



NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\11-01-00\CSAH\_54\_(CR140-South)\Plan\plan2.dgn 03/18/2011 8:38:10 AM

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.

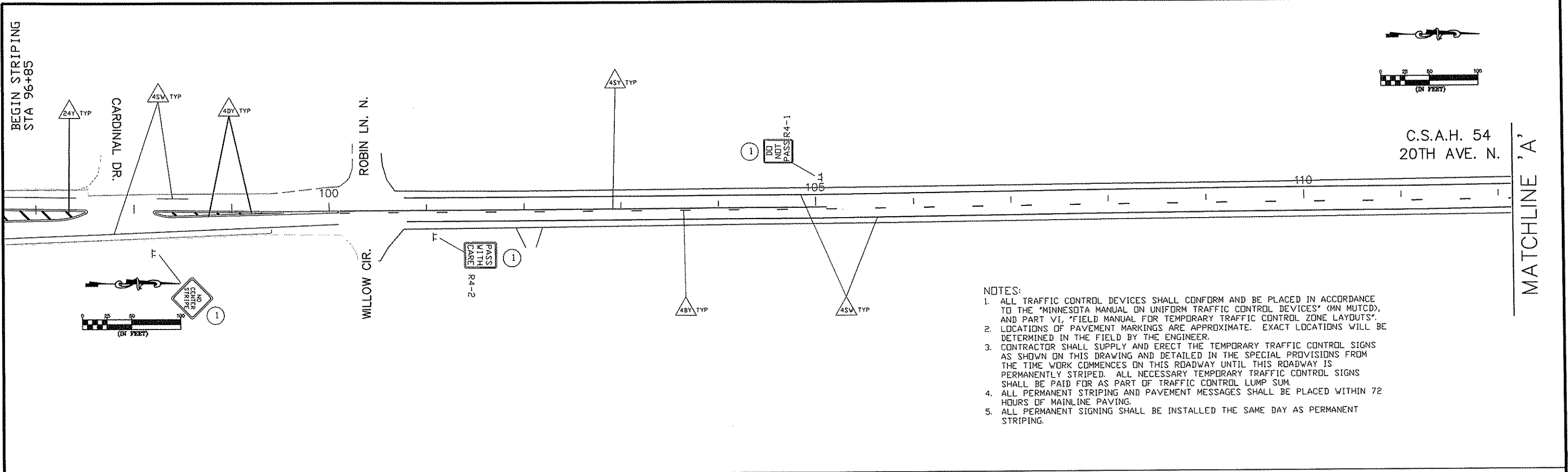
PRINT NAME: CHARLES CADENHEAD  
 SIGNATURE: *[Signature]*  
 DATE: 2/2/11 LICENSE NO. 40416

DRAWN BY: KPR DATE: 2/11/11  
 DESIGN BY: KPR DATE: 2/11/11  
 CHECKED BY: JO DATE: \_\_\_\_\_

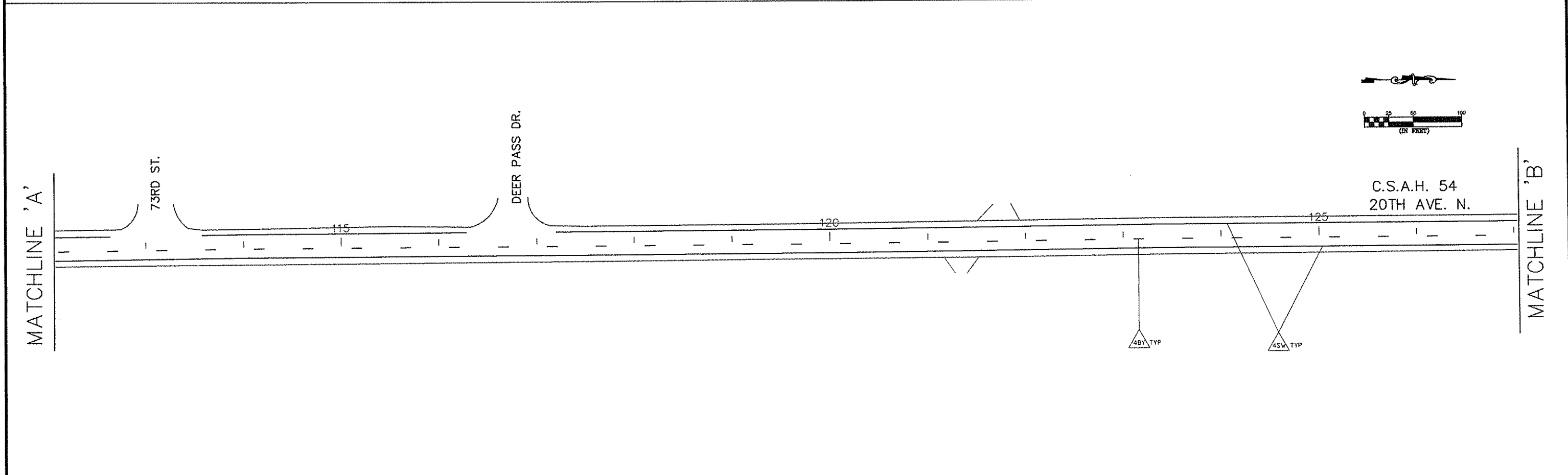


STATE PROJECT NO. \_\_\_\_\_  
 STATE AID PROJECT NO. \_\_\_\_\_  
 CITY PROJECT NO. \_\_\_\_\_  
 COUNTY PROJECT NO. 11-21-54

CONSTRUCTION PLAN  
 STA 208+00 TO 219+72  
 Sheet 14 of 21 Sheets



- NOTES:
1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN 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 UNTIL 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.



NO	DATE	BY	CKD	APPR	REVISION

NAME: T:\Traffic\dwg\CSAH 54 (20th Av\_Freeway Dr)\11-20\_21-54.dwg

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

PRINT NAME: CHARLES CADENHEAD

SIGNATURE: *Charles Cadenhead*

DATE: 4/7/11 REG. NO. 40416

DRAWN BY: MTH DATE 1/26/11

DESIGN BY: MTH DATE 1/26/11

CHECKED BY: JR DATE 3/01/11

**ANOKA COUNTY**  
HIGHWAY DEPT.

STATE PROJECT NO. \_\_\_\_\_

STATE AID PROJECT NO. \_\_\_\_\_

STATE AID PROJECT NO. \_\_\_\_\_

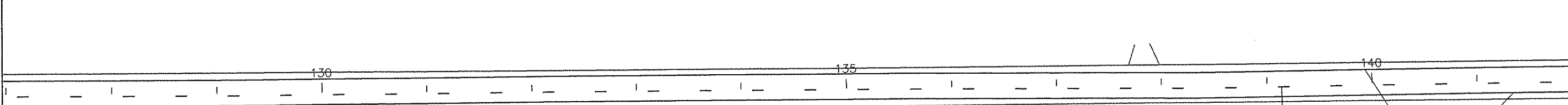
COUNTY PROJECT NO. 11-21-54

CSAH 54 (20th Ave)  
TEMPORARY SIGNING  
PERMANENT STRIPING AND  
PAVEMENT MESSAGES

Sheet 15 of 21 Sheets

MATCHLINE 'B'

MATCHLINE 'C'



NOTES:

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



C.S.A.H. 54  
20TH AVE. N.

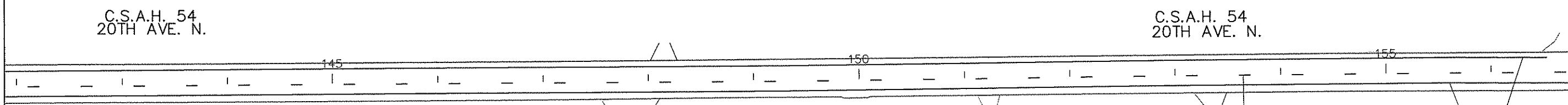
MATCHLINE 'C'



C.S.A.H. 54  
20TH AVE. N.

REHBEIN ST.

MATCHLINE 'D'



NO	DATE	BY	CKD	APPR	REVISION

NAME: T:\Traffic\dwg\CSAH 54 (20th Av\_Freeway Dr)\11-20\_21-54.dwg

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

PRINT NAME: CHARLES CADENHEAD

SIGNATURE: *[Signature]*

DATE: 2/9/11 REG. NO. 40416

DRAWN BY: MTH DATE 1/26/11

DESIGN BY: MTH DATE 1/26/11

CHECKED BY: JR DATE 3/01/11



ANOKA COUNTY  
HIGHWAY DEPT.

STATE PROJECT NO. \_\_\_\_\_

STATE AID PROJECT NO. \_\_\_\_\_

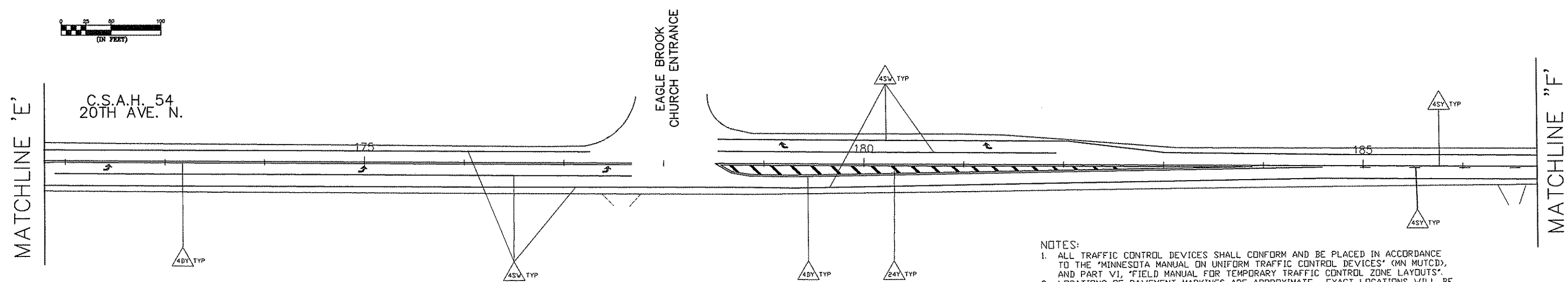
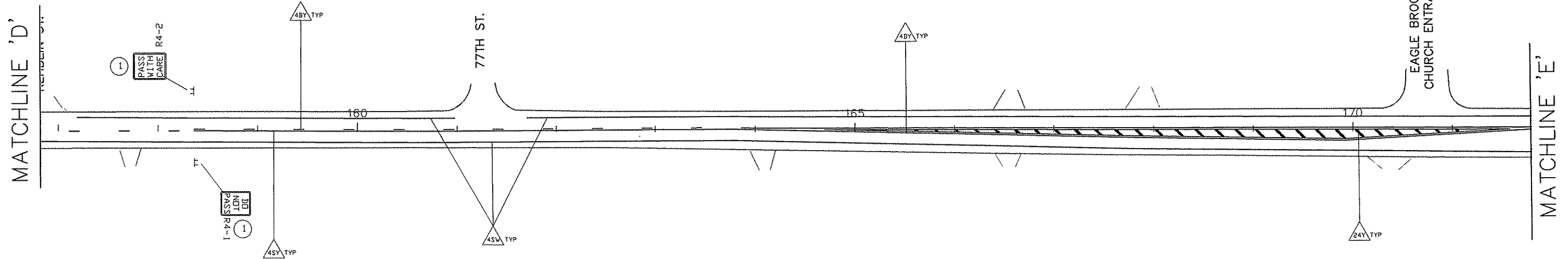
STATE AID PROJECT NO. \_\_\_\_\_

COUNTY PROJECT NO. 11-21-54

CSAH 54 (20th Ave)  
TEMPORARY SIGNING  
PERMANENT STRIPING AND  
PAVEMENT MESSAGES

Sheet 16 of 21 Sheets





- NOTES:
1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
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  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.

NO	DATE	BY	CKD	APPR	REVISION

NAME: T:\Traffic\dwg\CSAH 54 (20th Av\_Freeway Dr)\11-20\_21-54.dwg

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

PRINT NAME: CHARLES CADENHEAD

SIGNATURE: *[Signature]*

DATE: 1/26/11 REG. NO. 40476

DRAWN BY: MTH DATE 1/26/11

DESIGN BY: MTH DATE 1/26/11

CHECKED BY: JR DATE 3/01/11

**ANOKA COUNTY**  
HIGHWAY DEPT.

STATE PROJECT NO. \_\_\_\_\_

STATE AID PROJECT NO. \_\_\_\_\_

STATE AID PROJECT NO. \_\_\_\_\_

COUNTY PROJECT NO. 11-21-54

CSAH 54 (20th Ave)  
TEMPORARY SIGNING  
PERMANENT STRIPING AND  
PAVEMENT MESSAGES

Sheet 17 of 21 Sheets

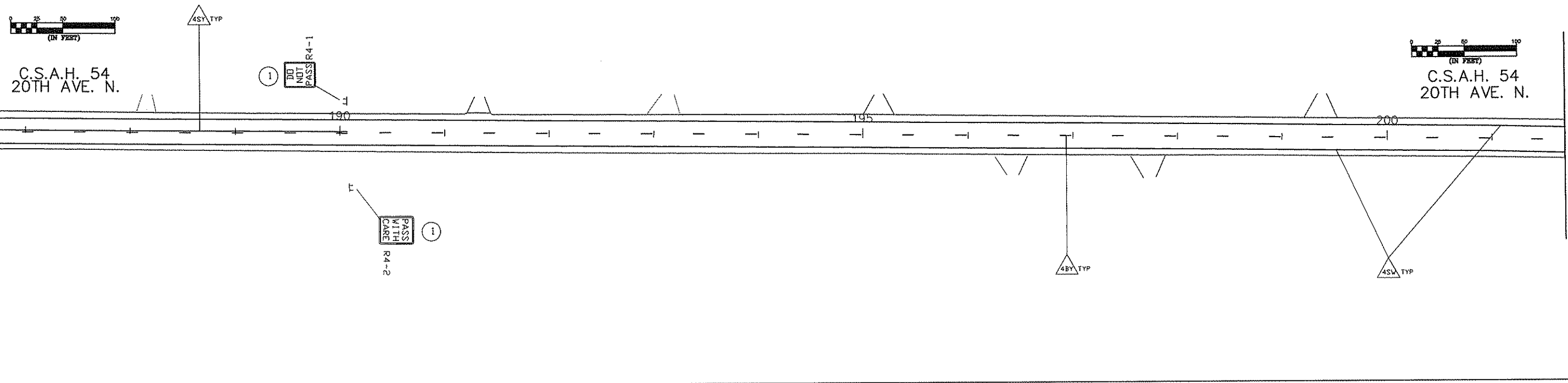
MATCHLINE 'F'

MATCHLINE 'G'



C.S.A.H. 54  
20TH AVE. N.

C.S.A.H. 54  
20TH AVE. N.

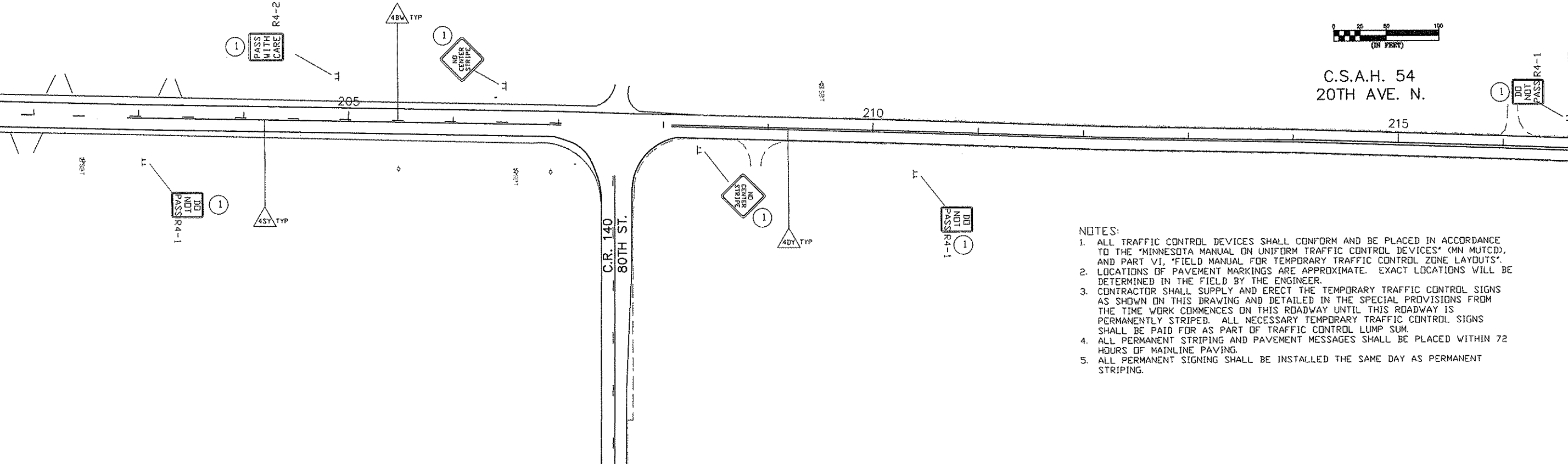


MATCHLINE 'G'

MATCHLINE 'H'



C.S.A.H. 54  
20TH AVE. N.



- NOTES:
1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE 'MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' (MN MUTCD), AND PART VI, 'FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS'.
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NO	DATE	BY	CKD	APPR	REVISION

NAME: T:\Traffic\dwg\CSAH 54 (20th Av\_Freeway Dr)\11-20\_21-54.dwg

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PRINT NAME: CHARLES CADENHEAD

SIGNATURE: *[Signature]*

DATE: 1/26/11 REG. NO. 40416

DRAWN BY: MTH DATE: 1/26/11

DESIGN BY: MTH DATE: 1/26/11

CHECKED BY: JR DATE: 3/01/11

**ANOKA COUNTY**  
HIGHWAY DEPT.

STATE PROJECT NO. \_\_\_\_\_

STATE AID PROJECT NO. \_\_\_\_\_

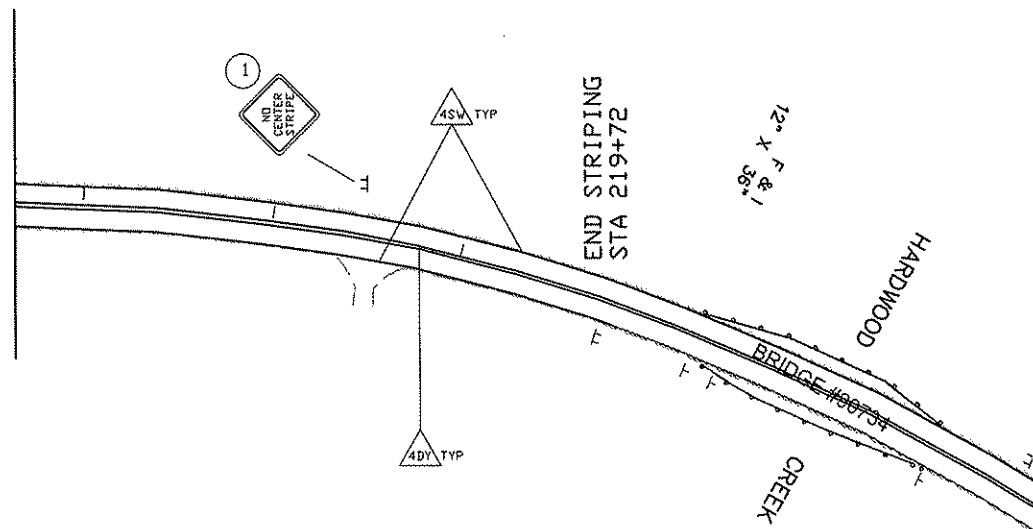
STATE AID PROJECT NO. \_\_\_\_\_

COUNTY PROJECT NO. 11-21-54

CSAH 54 (20th Ave)  
TEMPORARY SIGNING  
PERMANENT STRIPING AND  
PAVEMENT MESSAGES

Sheet 18 of 21 Sheets

MATCHLINE 'F'



TEMPORARY TRAFFIC CONTROL SIGNS

M. U. T. C. D. CODE	SIZE	PANEL AREA FT. <sup>2</sup>	INSERT	QUANTITY	No. POST	MOUNTING HEIGHT (TO PAVEMENT EDGE) FT.
WB-12	48" x 48"	16.00	NO CENTER STRIPE	4	2	7.0'
R4-1	24" x 30"	5.00	DO NOT PASS R4-1	6	1	7.0'
R4-2	24" x 30"	5.00	PASS WITH CARE R4-2	4	1	7.0'
WB-1A	48" x 48"	16.00	BUMP AHEAD WB-1A	AS NEEDED		
WB-1A	48" x 48"	16.00	BUMP WB-1A	AS NEEDED		
WB-8	48" x 48"	16.00	ROUGH ROAD WB-8	AS NEEDED		
WB-11	48" x 48"	16.00	UNEVEN LANES WB-11	AS NEEDED		

Item	Quantity	Units
4" Double Yellow Striping	5159	Lin Ft
4" Solid Yellow Striping	1987	Lin Ft
4" Broken Yellow Striping	1740	Lin Ft
4" Solid White Striping	24212	Lin Ft
4" Broken White Striping	0	Lin Ft
24" Yellow Thermoplastic	482	Lin Ft
24" White Thermoplastic	0	Lin Ft
3'x6' Zebra Crosswalk Thermoplastic	0	SQ FT
Right Turn Arrow Thermoplastic	2	Each
Left Turn Arrow Thermoplastic	3	Each
Thru/Right Turn Arrow Thermoplastic	0	Each
Thru Arrow Thermoplastic	0	Each

4" SOLID LINE DOUBLE YELLOW PAINT	PAVEMENT MESSAGE RIGHT
4" SOLID LINE YELLOW PAINT	PAVEMENT MESSAGE LEFT
4" BROKEN LINE YELLOW PAINT	PAVEMENT MESSAGE THRU/RIGHT
4" SOLID LINE WHITE PAINT	PAVEMENT MESSAGE THRU
4" BROKEN LINE WHITE PAINT	<b>SEE SPECIAL PROVISIONS</b>
24" YELLOW PERMANENT PAVEMENT MESSAGE	① TEMPORARY TRAFFIC CONTROL SIGN
24" WHITE PERMANENT PAVEMENT MESSAGE	② F & I PERMANENT SIGN
3' x 6' ZEBRA CROSSWALK	③ SALVAGE PERMANENT SIGN
	④ RE-INSTALL PERMANENT SIGN

NOTES:

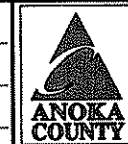
- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS". LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
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NO	DATE	BY	CKD	APPR	REVISION

NAME: T:\Traffic\dwg\CSAH 54 (20th Av. Freeway Dr)\11-20\_21-54.dwg

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
 PRINT NAME: CHARLES CADENHEAD  
 SIGNATURE:   
 DATE: 4/7/11 REG. NO. 40416

DRAWN BY: MTH DATE 1/26/11  
 DESIGN BY: MTH DATE 1/26/11  
 CHECKED BY: JR DATE 3/01/11

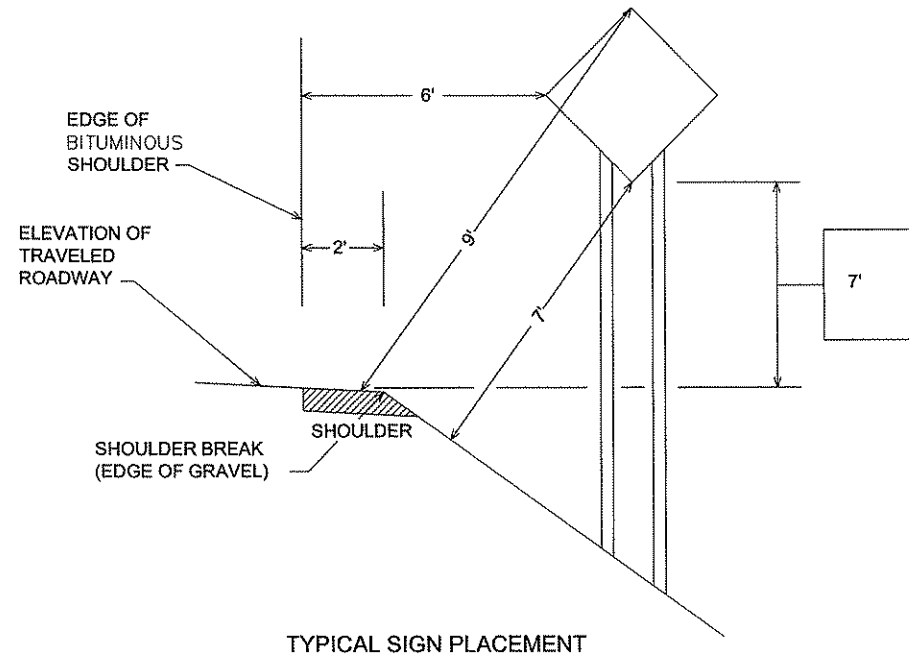


ANOKA COUNTY  
 HIGHWAY DEPT.

STATE PROJECT NO. \_\_\_\_\_  
 STATE AID PROJECT NO. \_\_\_\_\_  
 STATE AID PROJECT NO. \_\_\_\_\_  
 COUNTY PROJECT NO. 11-21-54

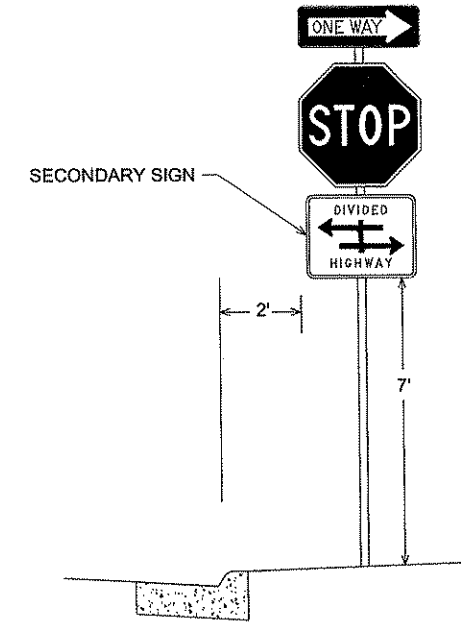
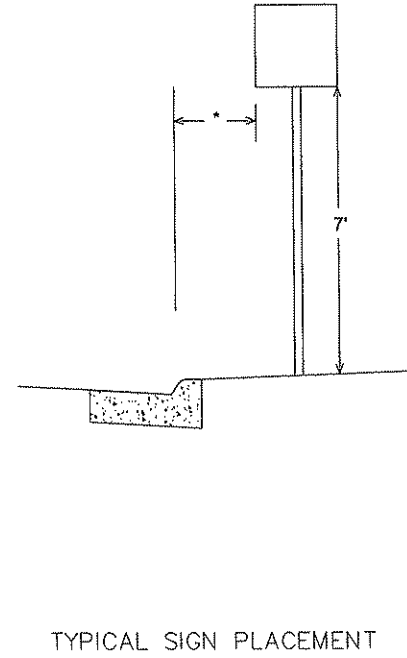
CSAH 54 (20th Ave)  
 TEMPORARY SIGNING  
 PERMANENT STRIPING AND  
 PAVEMENT MESSAGES  
 Sheet 19 of 21 Sheets

RURAL



URBAN

- \* 2' - NARROW BOULEVARD (< 8' WIDE)
- 6' - WIDE BOULEVARD



NOTE:

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

NO	DATE	BY	CKD	APPR	REVISION

NAME: T:\Traffic\Dwg\CSAH 54 (20th Ave)\Sign&Stripe\_Details.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: CHARLES CADENHEAD

SIGNATURE: *[Signature]*

DATE: 1/27/11 LICENSE NO. 20416

DRAWN BY: MTH DATE: 1-21-11

DESIGN BY: MTH DATE: 1-21-11

CHECKED BY: JR DATE: 1-21-11



ANOKA COUNTY  
HIGHWAY DEPT.

STATE PROJECT NO. \_\_\_\_\_

STATE PROJECT NO. \_\_\_\_\_

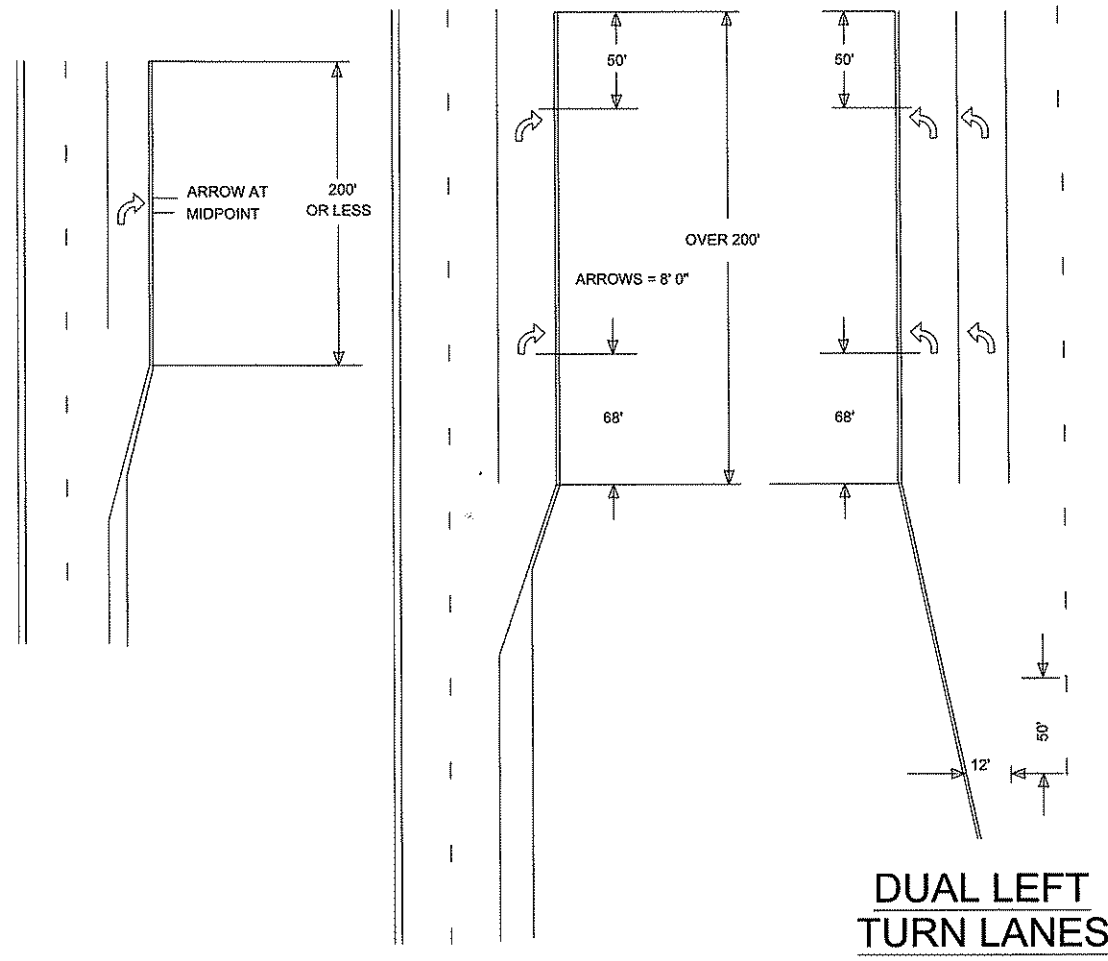
STATE PROJECT NO. \_\_\_\_\_

COUNTY PROJECT NO. 11-21-54

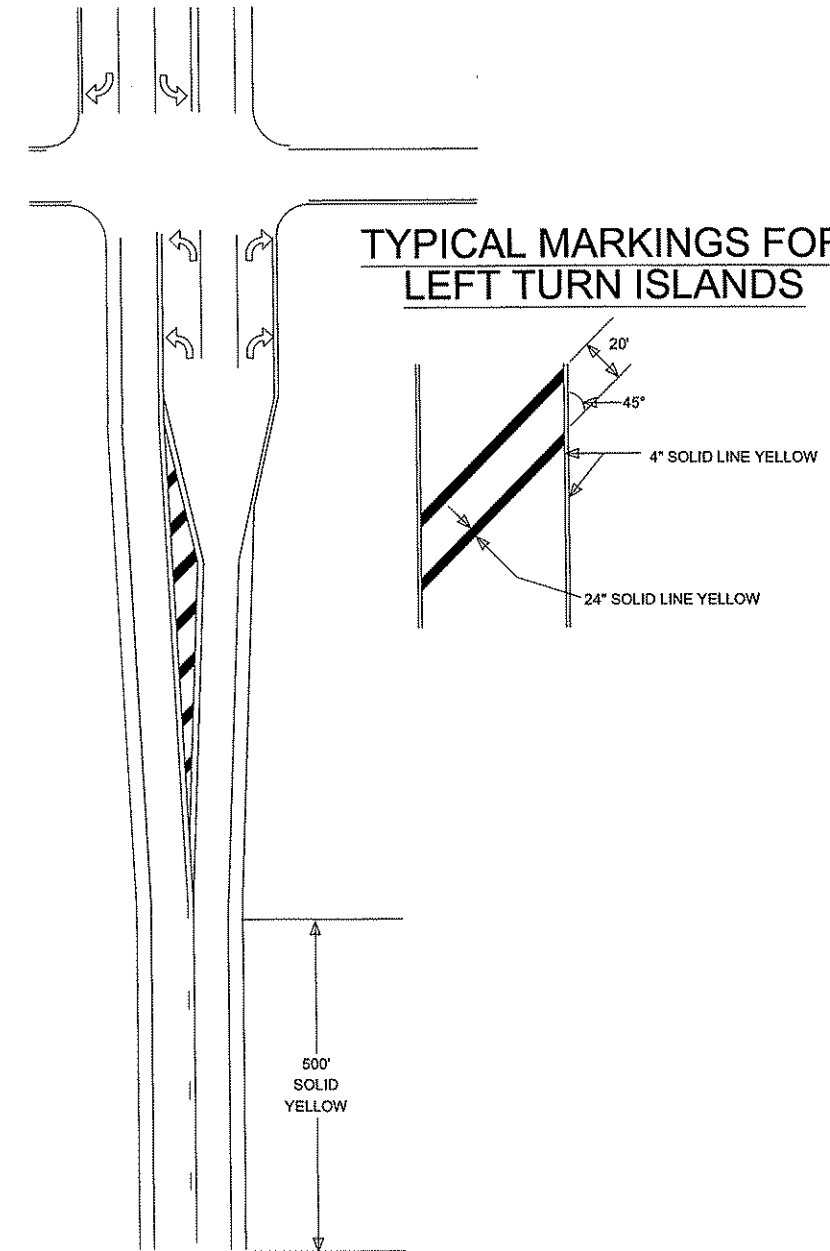
SIGNING & STRIPING DETAILS

Sheet 20 of 21 Sheets

**TYPICAL MESSAGE PLACEMENT  
FOR TURN LANES**



**TYPICAL MARKINGS FOR  
LEFT TURN ISLANDS**



NO.	DATE	BY	CHKD	APPR	REVISION

NAME: T:\Traffic\Dwg\CSAH 54 (20th Ave)\Sign&Stripe\_Details.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: CHARLES CADENHEAD

SIGNATURE: *Charles Cadenhead*

DATE: 4/27/11 LICENSE NO. 40416

DRAWN BY MTH DATE 1-21-11

DESIGN BY MTH DATE 1-21-11

CHECKED BY JR DATE 1-21-11



**ANOKA COUNTY  
HIGHWAY DEPT.**

STATE PROJECT NO. \_\_\_\_\_

STATE PROJECT NO. \_\_\_\_\_

STATE PROJECT NO. \_\_\_\_\_

COUNTY PROJECT NO. 11-21-54

**SIGNING & STRIPING DETAILS**

Sheet 21 of 21 Sheets