

STATE AID FOR LOCAL TRANSPORTATION  
 SUPPLEMENTAL AGREEMENT

SAP	199 – 020 - 010	Minn. Proj. No.	( )	SA No.	1
Project Location: CSAH 83 & Sunwood Drive, Ramsey, MN					
Local Agency: Ramsey			Local Project No: 12-20		
Contractor: North Pine Aggregate, Inc.			Contract No.		
Address/City/State/Zip: 14551 Lake Drive NE, Forest Lake, MN 55025					
<b>Total Supplemental Agreement Amount \$</b> + 5001.00					

This contract is between City of Ramsey and the Contractor as follows:

**WHEREAS:** This Contract provides for, among other things, Grading, Bituminous surfacing, Storm Sewer, Concrete Curb and Gutter, Bituminous Trail, Signing, and Traffic Control

**WHEREAS:** The City of Ramsey is requesting that the Bituminous Trail along the east side of CSAH 83 be widened to 10 feet from 8 feet, and be realigned to avoid in-place utilities. The Boulevard will also be revised from 10 feet to 8 feet.

**WHEREAS:** The City of Ramsey is requesting that the east curb line along CSAH 83 be extended to the south by 126 feet to improve drainage.

**WHEREAS:** The Engineer has determined that these revisions will improve off highway drainage along the east side of CSAH 83 as well as avoid in-place utilities that would be costly to relocate.

**NOW, THEREFORE, IT IS HEREBY MUTUALLY AGREED AND UNDERSTOOD THAT:**

1. The contractor shall provide all materials, labor, equipment, traffic control, and mobilization necessary for these design revisions.
2. The work of this supplemental agreement will be in accordance with the pertinent portions of the plan, the special provisions, the Mn/DOT Standard Specifications, Mn/DOT Standard Plates, the nineteen (19) 11" x 17" revised plan sheets dated 08/22/12 (originally signed 04/03/12) identified as Plan Sheet Nos. 3R, 5R, 7R, 9R, 10R, 14R, 74R, 75R, 136R, 137R, 139R, 140R, 141R, 142R, 143R, 144R, 145R, 146R, and 147R and as directed by the Engineer.
3. By signing the Supplemental Agreement No. 1, the Contractor acknowledges receipt of the nineteen (19) 11" x 17" revised plan sheets (dated 08/22/12) that are incorporated into this Supplemental Agreement No. 1 by reference.
4. All pay items associated with the Supplemental Agreement #1 will be paid at the Contract Unit Price as shown in the Estimate of Cost.
5. Contract time will not be revised except as provided under the Contract Provisions of Mn/DOT Specification 1806.

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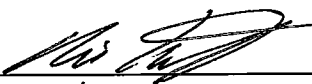
Rev. July 2010

Page 2 of 2

6. If the Contractor incurs unknown and unanticipated additional work that affects costs or impacts the critical path, the Contractor reserves the right to request an additional adjustment to the contract amount or contract time in accordance with MnDOT 1402.

ESTIMATED INCREASE IN COST - SAP 199-020-010 / CP 12-20					
Item No.	Description	Unit	Unit Price	Quantity	Amount
2105.523	COMMON BORROW (CV) (P)	CU YD	\$3.75	290	\$1,087.50
2521.511	2" BITUMINOUS WALK	SQ FT	\$1.30	1665	\$2,164.50
2531.501	CONCRETE CURB AND GUTTER DESIGN B424	LIN FT	\$13.25	132	\$1,749.00
					\$0.00
<b>TOTAL INCREASES SAP 199-020-010 / CP 12-20</b>					<b>\$5,001.00</b>

<b>TOTAL ADJUSTMENT SAP 199-020-010 / CP 12-20</b>	<b>\$5,001.00</b>
--	-------------------

Approved by Project Engineer:  Date: 8/24/12  
 Print Name: Nicholas Hentges Phone: 612 360 1286

Approved by City Engineer: \_\_\_\_\_ Date: \_\_\_\_\_  
 Print Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Approved by Contractor: \_\_\_\_\_ Date: \_\_\_\_\_  
 Print Name: \_\_\_\_\_ Phone: \_\_\_\_\_

**Distribution:** Project Engineer (Original), Contractor (copy), DSAE (copy for funding review)

**DSAE Portion: The State of Minnesota is not a participant in this contract. Signature by the District State Aid Engineer is for FUNDING PURPOSES ONLY and for compliance with State and Federal Aid Rules/Policy. Eligibility does not guarantee funds will be available.**

This work is eligible for:  Federal Funding  State Aid Funding  Local funds

District State Aid Engineer: \_\_\_\_\_ Date: \_\_\_\_\_

ESTIMATED QUANTITIES

TAB	SHEETS	ITEM NUMBER	Description	Notes	Unit	PROJECT TOTAL ESTIMATED QUANTITY	S.A.P. 199-020-010 CSAH 83 (ARMSTRONG BLVD)	S.A.P. 199-020-010 CSAH 83 STORM SEWER	100% CITY NON-PARTICIPATING
							ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED QUANTITY
		2021.501	MOBILIZATION		LUMP SUM	1.00	0.58	0.07	0.35
		2031.501	FIELD OFFICE TYPE D		LUMP SUM	1.00	0.58	0.07	0.35
C, GB	8, 52	2101.502	CLEARING		TREE	53	50		3
C, GB	8, 52	2101.507	GRUBBING		TREE	53	50		3
G	21	2102.502	PAVEMENT MARKING REMOVAL		LINE FT	2250	2250		
C, GB	8, 52	2102.602	PAVEMENT MARKING REMOVAL - SPECIAL	(10)	EACH	9	9		
C	8	2104.501	REMOVE CONCRETE CULVERT		LINE FT	298	298		
C	8	2104.501	REMOVE METAL CULVERT		LINE FT	115	115		
C	8	2104.501	REMOVE SEWER PIPE (STORM)		LINE FT	119	4		115
C	8	2104.501	REMOVE CURB AND GUTTER		LINE FT	1139	239		900
C	8	2104.501	REMOVE CHAIN LINK FENCE		LINE FT	395	275		120
C	8	2104.503	REMOVE CONCRETE WALK		SQ FT	140			140
C, GB	8, 52	2104.505	REMOVE BITUMINOUS PAVEMENT	(1)	SQ YD	16430	10001		6429
	72	2104.509	REMOVE VEHICULAR GATE		EACH	1			1
C	8	2104.509	REMOVE CONCRETE APRON		EACH	6	6		
C	8	2104.509	REMOVE METAL APRON		EACH	6	6		
C	8	2104.509	REMOVE DRAINAGE STRUCTURE		EACH	2	2		
	72 - 73	2104.509	REMOVE SIGN TYPE C		EACH	16	12		4
N	109	2104.509	REMOVE SIGN TYPE SPECIAL		EACH	3			3
C	8	2104.511	SAWING CONCRETE PAVEMENT (FULL DEPTH)		LINE FT	20	4		16
C, G, GB	8, 21, 52	2104.513	SAWING BIT PAVEMENT (FULL DEPTH)	(1)	LINE FT	2224	1874		350
C, H	8, 68	2104.523	SALVAGE CASTING		EACH	5	2		3
C	8	2104.523	SALVAGE CATCH BASIN		EACH	2	2		
HH	68	2104.523	SALVAGE GATE VALVE & BOX		EACH	1			1
HH	68	2104.523	SALVAGE HYDRANT		EACH	1			1
	72	2104.523	SALVAGE SIGN TYPE SPECIAL	(13)	EACH	1	1		
	72	2104.523	SALVAGE VEHICULAR GATE		EACH	1			1
E, GF	9R, 53	2105.501	COMMON EXCAVATION	(P) (7)	CU YD	11119	10042		1077
E	9R	2105.507	SUBGRADE EXCAVATION	(P)	CU YD	2207	1486		721
E	9R	2105.522	SELECT GRANULAR BORROW (CV)	(P) (14)	CU YD	5861	4515		1346
E	9R	2105.523	COMMON BORROW (CV)	(P) (14)	CU YD	10227	9264		963
E, GF	9R, 53	2105.525	TOPSOIL BORROW (LV)	(P)	CU YD	3555	3117		438
		2105.601	DEWATERING		LUMP SUM	1			1
		2123.610	STREET SWEEPER (WITH PICKUP BROOM)	(3)	hour	95	95		
		2130.501	WATER	(2)	M GALLONS	100	100		

\* SEE SHEETS 2A - 3A FOR SAP 199-104-010 ESTIMATED QUANTITIES

NOTES:

- (1) SEE TYPICAL SECTIONS FOR APPROXIMATE BITUMINOUS THICKNESSES.
- (2) TO BE USED AS DUST CONTROL AS DIRECTED BY THE ENGINEER (SEE SWPPP).
- (3) CONTRACTOR MUST HAVE A STREET SWEEPER ON SITE OR AVAILABLE WITHIN 3 HOURS OF REQUEST. TRACKED SEDIMENT MUST BE REMOVED FROM ALL OFF-SITE SURFACES PROMPTLY UPON DISCOVERY, OR AS DIRECTED BY THE CITY ENGINEER. SEE SWPPP NOTES FOR FURTHER INFORMATION.
- (4) SIGN PANELS PAID BY SQ. FT. INCLUDES FURNISHING AND INSTALLING OF THE SIGNS AND POSTS.
- (5) ENGINEER TO VERIFY FINAL LOCATIONS PRIOR TO PLACEMENT.
- (6) ALL BROKEN OR DOTTED LINES ARE PAID BY THE ACTUAL LENGTH OF LINE MARKED AND DO NOT INCLUDE THE LENGTH OF THE GAPS.
- (7) INCLUDES 6,182 CU YD OF TOPSOIL EXCAVATION.
- (8) FERTILIZER ANALYSIS 22-5-10
- (9) TO BE USED FOR TEMPORARY STABILIZATION OF DISTURBED AREAS AND STOCKPILES AS DIRECTED BY THE ENGINEER.
- (10) APPLIES TO PAVEMENT MESSAGE REMOVAL
- (11) HIGH EARLY CONCRETE
- (12) 2' X 3' BOX.
- (13) 8019 146TH AVE NW BUSINESS SIGN AND VEHICULAR GATE.
- (14) TO BE IMPORTED FROM THE LAKE RAMSEY BORROW AREA, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- (15) FOR 21" RC PIPE.
- (16) FOR USE ALONG THE CSAH 83 WEST R/W AT THE 801 146TH AVE NW PROPERTY.
- (17) 8019 146TH AVE NW PROPERTY. REMOVAL OF EXISTING SYSTEM IS INCIDENTAL.
- (18) 30 MPH
- (19) 55 MPH
- (P) DENOTES PLAN QUANTITY

BASIS FOR QUANTITIES

UNIT WEIGHT OF BITUMINOUS MIX.....	113 LBS/SY/IN
STREET SWEEPER.....	5 HOURS/WEEK
TURF ESTABLISHMENT	
- SEED MIXTURE 240.....	75 LBS/ACRE
- SEED MIXTURE 260.....	100 LBS/ACRE
- FERTILIZER TYPE 3.....	400 LBS/ACRE
- MULCH MATERIAL TYPE 1.....	2 TONS/ACRE

TABULATION INDEX

SHEET No.	TAB ID	DESCRIPTION
7R	A	BITUMINOUS & AGGREGATE
7R	B	CONCRETE
8	C	MISCELLANEOUS REMOVAL
8	D	TURF ESTABLISHMENT & EROSION CONTROL
9R	E	EARTHWORK SUMMARY
10R	F	EARTHWORK QUANTITIES
21	G	TRAFFIC CONTROL
52	GA	BYPASS BITUMINOUS & AGGREGATE
52	GB	BYPASS MISCELLANEOUS REMOVALS
52	GC	BYPASS TURF ESTABLISHMENT & EROSION CONTROL
52	GD	BYPASS PAVEMENT MARKINGS
52	GE	BYPASS CULVERT TABULATION
53	GF	BYPASS EARTHWORK SUMMARY & TABULATIONS
68	H	SANITARY SEWER
68	HH	WATERMAIN
87 - 89	I	STORM SEWER TABULATION
90	J	DRAINAGE STRUCTURE SUMMARY
90	K	STORM SEWER SUMMARY
90	L	CASTINGS
91	M	CULVERT TABULATION
109	N	REMOVE SIGN TYPE SPECIAL
109	O	SIGN PANELS TYPE C
109	P	DELINEATORS & MARKERS
109	Q	PERMANENT PAVEMENT MARKING
120	R	TRAFFIC SIGNAL ESTIMATED QUANTITIES

Date Printed: 8/23/2012  
WSB Filename: K:\01973-010\cod\plan\CD020295.est.dgn

NO.	DATE	BY	CHK	REVISIONS
1	08/22/12	NEH	AJP	EAST SIDE TRAIL AND CURB LINE REVISED

Design By: NEH  
 P1an By: CWK  
 Checked By: AJP  
 Approved By: NEH

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

CERTIFIED BY: *[Signature]*  
 LICENSED PROFESSIONAL ENGINEER - RICHARDAS E. HENTIGES, PE  
 DATE: 04/03/12 L.I.C. NO: 44620

**WSB**  
 & Associates, Inc.  
 701 Xenia Avenue South, Suite 300  
 Minneapolis, MN 55416  
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 783-541-4800 • Fax 783-541-1700  
 INFRASTRUCTURE • ENGINEERING • PLANNING • CONSTRUCTION

**City of RAMSEY**  
 Armstrong Blvd at Sunwood Drive  
 City of Ramsey, Minnesota

CITY OF RAMSEY, MINNESOTA

**ESTIMATED QUANTITIES**  
 S.A.P. 199-020-010 / C.P. 12-20

SHEET  
**3R**  
 OF  
**153**  
 SHEETS

ESTIMATED QUANTITIES

TAB	SHEETS	ITEM NUMBER	Description	Notes	Unit	PROJECT TOTAL	S.A.P. 199-020-010 CSAH 83 (ARMSTRONG BLVD)	S.A.P. 199-020-010 CSAH 83 STORM SEWER	100% CITY NON-PARTICIPATING
						ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED QUANTITY
H, J	68, 90	2506.501	CONST DRAINAGE STRUCTURE DESIGN F		LINE FT	47.9		35.5	12.4
J	90	2506.501	CONST DRAINAGE STRUCTURE DESIGN G		LINE FT	11.7		11.7	
J	90	2506.501	CONST DRAINAGE STRUCTURE DESIGN H		LINE FT	3.8		3.8	
J	90	2506.501	CONST DRAINAGE STRUCTURE DES 48-4020		LINE FT	50.6		41.7	8.9
J	90	2506.501	CONST DRAINAGE STRUCTURE DES 60-4020		LINE FT	34.9		34.9	
J	90	2506.502	CONST DRAINAGE STRUCTURE DES SPECIAL	(12)	EACH	3		2	1
H, L	68, 90	2506.516	CASTING ASSEMBLY		EACH	20		17	3
H	68, 86	2506.521	INSTALL CASTING		EACH	5		2	3
H	68	2506.522	ADJUST FRAME & RING CASTING		EACH	1			1
H	68	2506.602	RECONSTRUCT MANHOLES		EACH	3			3
	86	2506.602	INSTALL CATCH BASIN		EACH	2		2	
K, M, GE	90, 91, 52	2511.501	RANDOM RIPRAP CLASS II		CU YD	24	18	6	
B	7R	2521.501	4" CONCRETE WALK		SQ FT	10129	10129		
A	7R	2521.511	2" BITUMINOUS WALK		SQ FT	8403	8403		
B	7R	2531.501	CONCRETE CURB & GUTTER DESIGN B418		LINE FT	1348	1348		
B	7R	2531.501	CONCRETE CURB & GUTTER DESIGN B424		LINE FT	1258	1203		55
B	7R	2531.501	CONCRETE CURB & GUTTER DESIGN B612		LINE FT	392			392
B	7R	2531.501	CONCRETE CURB & GUTTER DESIGN B618		LINE FT	779	123		656
B	7R	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	(11)	SQ YD	6			6
B	7R	2531.602	CONC ENTRANCE NOSE DESIGN 7113		EACH	4	4		
B	7R	2531.604	6" CONCRETE VALLEY GUTTER	(11)	SQ YD	12			12
B	7R	2531.618	TRUNCATED DOMES		SQ FT	124	124		
G	21	2533.507	PORTABLE PRECAST CONC BARRIER DES 8337		LINE FT	300	300		
G	21	2533.508	RELOCATE PORT PRECAST CONC BAR DES 8337		LINE FT	380	380		
	47 - 48	2554.505	PERMANENT BARRICADES		LINE FT	64	64		
K, M, GE	90, 91, 52	2554.509	GUIDE POST TYPE B		EACH	12	8	4	
G	21	2554.615	IMPACT ATTENUATOR NO 1	(18)	ASSEMBLY	2	2		
G	21	2554.615	IMPACT ATTENUATOR NO 2	(19)	ASSEMBLY	1	1		
G	21	2554.615	RELOCATE IMPACT ATTENUATOR NO 2	(19)	ASSEMBLY	1	1		
	74R	2557.501	WIRE FENCE DESIGN 60-9322		LINE FT	150			150
		2557.522	METAL BRACE ASSEMBLY		EACH	6			6
		2557.527	ELECTRICAL GROUND		EACH	2			2
	74R	2557.602	INSTALL VEHICULAR GATE		EACH	1			1
		2563.601	TRAFFIC CONTROL		LUMP SUM	1.00	0.58	0.07	0.35
O	109	2564.531	SIGN PANELS TYPE C	(4) (5)	SQ FT	198.0	180.4		17.6
	74R	2564.537	INSTALL SIGN TYPE SPECIAL	(5) (13)	EACH	1	1		
P	109	2564.552	HAZARD MARKER X4-2	(5)	EACH	4	4		
P	109	2564.553	CLEARANCE MARKER X4-4	(5)	EACH	3	3		

\* SEE SHEETS 2A - 3A FOR SAP 199-104-010 ESTIMATED QUANTITIES

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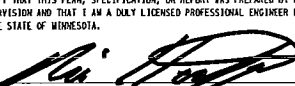
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NO.	DATE	BY	CHK	REVISIONS
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Design By: NEH  
 Plan By: CWK  
 Checked By: AJP  
 Approved By: NEH

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CERTIFIED BY:   
 LICENSED PROFESSIONAL ENGINEER NICHOLAS E. HENTGES, PE  
 DATE: 04/03/12 LIC. NO: 44620

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CITY OF RAMSEY, MINNESOTA

**ESTIMATED QUANTITIES**  
 S.A.P. 199-020-010 / C.P. 12-20

SHEET  
**5R**  
 OF  
**153**  
 SHEETS

**BITUMINOUS & AGGREGATE**

STATION TO STATION	2360 TYPE SP 12.5 WEARING COURSE MIXTURE (4,C) (SPWEB440C) (1)	2360 TYPE SP 12.5 NON WEARING COURSE MIXTURE (4,B) (SPNWB430B) (1)	AGGREGATE BASE (CV) CLASS 5 MODIFIED	AGGREGATE BASE (CV) CLASS 5 MOD. (4" CONCRETE WALK)	AGGREGATE BASE (CV) CLASS 5 MOD. (2.0" BITUMINOUS WALK)	AGGREGATE SHOULDERING (CV) CLASS 5 MODIFIED	2" BITUMINOUS WALK
	TON	TON	CU YD	CU YD	CU YD	CU YD	SQ FT
S.A.P. 199-020-010							
CSAH 83 (ARMSTRONG BLVD)							
27+82.04 TO 38+00	1954	1079	2896	54	14	56	821
38+00 TO 45+24.37	555	341	866	54	102		7582
146TH AVE NW	183		141		7		
147TH AVE NW	573		429		6		
<b>PROJECT TOTALS</b>	<b>3265</b>	<b>1420</b>	<b>4332</b>	<b>108</b>	<b>129</b>	<b>56</b>	<b>8403</b>

NOTES:  
 (1) TACK COAT IS INCIDENTAL.  
 (2) SEE SHEET 74 FOR LOCATION OF PAVEMENT SECTION CHANGE BETWEEN CSAH 83 AND 147TH AVE NW.

**CONCRETE**

STATION TO STATION	CURB & GUTTER				CONCRETE WALK			6" CONCRETE DRIVEWAY PAVEMENT (1)	MEDIAN NOSE DESIGN 7113	TRUNCATED DOMES
	CURB AND GUTTER DESIGN B424	CURB AND GUTTER DESIGN B418	CURB AND GUTTER DESIGN B618	CURB AND GUTTER DESIGN B612	6" CONCRETE VALLEY GUTTER (1)	4" CONCRETE WALK	4" CONCRETE MEDIAN			
	LN FT	LN FT	LN FT	LN FT	SQ YD	SQ FT	SQ FT			
S.A.P. 199-020-010										
CSAH 83 (ARMSTRONG BLVD)										
27+82.04 TO 38+00	619	525	123			1989	3842		4	124
38+00 TO 45+24.37	584	823					4298			
146TH AVE NW				392	12			6		
147TH AVE NW	55		656							
<b>PROJECT TOTALS</b>	<b>1258</b>	<b>1348</b>	<b>779</b>	<b>392</b>	<b>12</b>	<b>1989</b>	<b>8140</b>	<b>6</b>	<b>4</b>	<b>124</b>

GENERAL NOTES:  
 - SEE BITUMINOUS & AGGREGATE TABULATION FOR AGGREGATE BASE QUANTITY LOCATED BELOW THE CONCRETE WALK AND BITUMINOUS TRAIL.

NOTES:  
 (1) HIGH EARLY CONCRETE

Date Plotted: 8/23/2012 WSB Filename: K:\01973-010\lead\plan\CD020295\_tabs.dgn

NO.	DATE	BY	CHK	REVISIONS
1	08/22/12	NEH	AJP	EAST SIDE TRAIL REVISED, EAST SIDE CURB AND GUTTER EXTENDED SOUTH TO STA 34+28.

Design By: NEH  
 Plan By: CWK  
 Checked By: AJP  
 Approved By: NEH

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

*Nicholas E. Hentges*  
 CERTIFIED BY: NICHOLAS E. HENTGES, PE  
 LICENSED PROFESSIONAL ENGINEER  
 DATE: 04/03/12 LIC. NO: 44620

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**City of RAMSEY**  
 Armstrong Blvd at Sunwood Drive  
 City of Ramsey, Minnesota

CITY OF RAMSEY, MINNESOTA

**TABULATED QUANTITIES**  
 S.A.P. 199-020-010 / C.P. 12-20

SHEET  
**7R**  
 OF  
**153**  
 SHEETS

CSAH 83 IMPROVEMENTS (RAMSEY, MN)


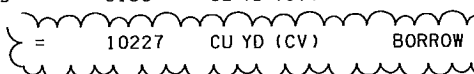

E

Earthwork Summary

CSAH 83 at Sunwood Drive / 147th Avenue NW  
EXCAVATION

CSAH 83 at Sunwood Drive / 147th Avenue NW EARTHWORK ACCOUNTING

COMMON MATERIAL BALANCE

COMMON EXCAVATION	S.A.P. 199-020-010	8018 CU YD (EV)	AVAILABLE FROM EXCAVATION				
SUBGRADE EXCAVATION	S.A.P. 199-020-010	2207 CU YD (EV)	SUBGRADE EXC. + COMMON EXC.	( 2207 + 8018 )	CU YD (EV)	/1.25 = 8180	CU YD (CV) 
				( 8180 - 18407 )		= 10227	CU YD (CV) BORROW 
<b>EMBANKMENT</b>							
SELECT GRADING	S.A.P. 199-020-010	18407 CU YD (CV) 	SELECT GRANULAR BALANCE	( 5861 )	CU YD (CV)	= 5861	CU YD (CV) BORROW
SELECT GRANULAR EMBANKMENT	S.A.P. 199-020-010	5861 CU YD (CV)	TOPSOIL BALANCE	( 1649 )	CU YD (CV)	*1.4 = 2309	CU YD (LV) BORROW
TOPSOIL	S.A.P. 199-020-010	1649 CU YD (CV)					

GENERAL NOTES:

- 125% SHRINKAGE FACTOR USED FROM EXCAVATED VOLUME (EV) TO COMPACTED VOLUME (CV) FOR COMMON EXCAVATION. 130% EXPANSION FACTOR USED FROM COMPACTED VOLUME (CV) TO LOOSE VOLUME (LV) FOR SELECT GRANULAR AND SELECT GRADING
- ANY MATERIAL NOT UTILIZED ON THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR, THE DISPOSAL OF WHICH SHALL BE HIS RESPONSIBILITY WITH NO ADDITIONAL COMPENSATION PAID OTHER THAN THE PRICE BID FOR COMMON EXCAVATION.
- SELECT GRANULAR BALANCE ASSUMES NO EXCAVATED MATERIAL WILL MEET SELECT GRANULAR SPECIFICATIONS.


\* SEE SHEETS 60A - 62A FOR SAP 199-104-010 MASS GRADING PLAN AND FOR THE LAKE RAMSEY BORROW AREA GRADING PLAN. GRANULAR AND SELECT GRANULAR BORROW TO BE TAKEN FROM THE LAKE RAMSEY BORROW AREA, UNLESS OTHERWISE APPROVED BY THE ENGINEER. SEE SHEETS 61A FOR LOCATION AND DETAILS.

Date Printed: 8/23/2012  
WSB Filename: K:\01973-010\Lead\plan\CD020295\_ew.dgn

NO.	DATE	BY	CHK	REVISIONS
1	08/22/12	NEH	AJP	EAST SIDE TRAIL AND CURB LINE REVISED - COMMON FILL INCREASED

Design By: NEH  
Plan By: CWK  
Checked By: AJP  
Approved By: NEH

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

CERTIFIED BY:   
LICENSED PROFESSIONAL ENGINEER NICHOLAS E. HENTGES, PE  
DATE: 04/03/12 L.I.C. NO: 44620

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CITY OF RAMSEY, MINNESOTA  
EARTHWORK TABULATION & SUMMARY  
S.A.P. 199-020-010 / C.P. 12-20

SHEET  
9R  
OF  
153  
SHEETS

EARTHWORK TABULATION							F	
STATION TO STATION	EXCAVATION			EMBANKMENT				
	COMMON	TOPSOIL	SUB-GRADE	SUITABLE GRADING	SELECT GRANULAR BORROW (ROADWAY)	TOPSOIL		
	CU YD (EV)	CU YD (EV)	CU YD (EV)	CU YD (CV)	CU YD (CV)	CU YD (CV)		
CSAH 83								
27+85	TO	28+00	24	27	26	7	26	9
28+00	TO	28+50	78	86	87	22	88	31
28+50	TO	29+00	77	82	89	16	89	32
29+00	TO	29+50	80	80	90	18	93	31
29+50	TO	30+00	67	88	92	31	101	30
30+00	TO	30+50	45	73	95	26	111	33
30+50	TO	31+00	23	49	69	24	128	32
31+00	TO	31+50	14	35	24	34	147	31
31+50	TO	32+00	16	32	4	86	157	33
32+00	TO	32+50	29	152		295	164	41
32+50	TO	33+00	37	277		677	170	50
33+00	TO	33+50	28	309		1065	176	59
33+50	TO	34+00	30	338		1350	182	68
34+00	TO	34+50	34	358		1663	187	74
34+50	TO	35+00	8	74		362	38	16
35+00	TO	35+50	49	349		1643	192	72
35+50	TO	35+91	23	280		1327	172	50
35+91	TO	37+21		674		3391	561	137
37+21	TO	37+50	3	127		501	121	28
37+50	TO	38+00	19	282		775	213	53
38+00	TO	38+50	32	282	6	672	213	56
38+50	TO	39+00	19	274	52	586	213	56
39+00	TO	39+50	13	257	134	477	213	56
39+50	TO	40+00	69	235	176	369	213	54
40+00	TO	40+50	144	214	184	279	206	54
40+50	TO	40+95	135	159	172	171	174	42
40+95	TO	41+00	10	12	14	13	13	3
41+00	TO	41+50	63	79	90	120	81	17
41+50	TO	41+90	46	57	73	84	65	11
41+90	TO	42+00	5	12	9	15	8	2
42+00	TO	42+50		52		50		10
42+50	TO	43+00		44		38		8
43+00	TO	43+50		45		41		8
43+50	TO	44+00		53		57		10
44+00	TO	44+50		58		67		12
44+50	TO	45+00		74		174		17
45+00	TO	45+24		42		135		10
SUBTOTALS			1220	5721	1486	16661	4515	1336

EARTHWORK TABULATION							F	
STATION TO STATION	EXCAVATION			EMBANKMENT				
	COMMON	TOPSOIL	SUB-GRADE	SUITABLE GRADING	SELECT GRANULAR BORROW (ROADWAY)	TOPSOIL		
	CU YD (EV)	CU YD (EV)	CU YD (EV)	CU YD (CV)	CU YD (CV)	CU YD (CV)		
147TH AVE NW								
11+09	TO	11+50	40	9	71		68	7
11+50	TO	12+00	61	16	96		92	9
12+00	TO	12+50	59	27	115	1	116	9
12+50	TO	13+00	29	40	101	10	135	12
13+00	TO	13+50	2	49	42	58	139	18
13+50	TO	14+00		55	4	203	137	24
14+00	TO	14+50		69		434	150	32
14+50	TO	14+63		23		167	46	10
SUBTOTALS			191	288	429	873	883	121

EARTHWORK TABULATION							F	
STATION TO STATION	EXCAVATION			EMBANKMENT				
	COMMON	TOPSOIL	SUB-GRADE	SUITABLE GRADING	SELECT GRANULAR BORROW (ROADWAY)	TOPSOIL		
	CU YD (EV)	CU YD (EV)	CU YD (EV)	CU YD (CV)	CU YD (CV)	CU YD (CV)		
SUNWOOD DRIVE								
20+42	TO	20+50		21		109	29	7
20+50	TO	20+75		63		402	83	
20+75	TO	20+94		48		339	59	
SUBTOTALS				132		850	171	7

EARTHWORK SUMMARY								F
ALIGNMENT	STATION TO STATION	EXCAVATION			EMBANKMENT			
		COMMON	TOPSOIL (1)	SUB-GRADE	SUITABLE GRADING	SELECT GRANULAR BORROW (ROADWAY)	TOPSOIL BORROW	
		CU YD (EV)	CU YD (EV)	CU YD (EV)	CU YD (CV)	CU YD (CV)	CU YD (CV)	
CSAH 83	27+85 TO 45+24	1,220	5,721	1,486	16,661	4,515	1,336	
147TH	11+09 TO 14+63	191	288	429	873	883	121	
SUNWOOD	20+42 TO 20+94		132		850	171	7	
CUL-DE-SAC		425	41	292	23	292	185	
TOTALS		1,836	6,182	2,207	18,407	5,861	1,649	

NOTES:  
 (1) PAID AS COMMON EXCAVATION. QUANTITY IS NOT INCLUDED IN THE COMMON EXCAVATION COLUMN.

\* SEE SHEETS 60A - 62A FOR SAP 199-104-010 MASS GRADING PLAN AND FOR THE LAKE RAMSEY BORROW AREA GRADING PLAN. GRANULAR AND SELECT GRANULAR BORROW TO BE TAKEN FROM THE LAKE RAMSEY BORROW AREA, UNLESS OTHERWISE APPROVED BY THE ENGINEER. SEE SHEETS 61A FOR LOCATION AND DETAILS.

Date Printed: 8/23/2012  
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NO.	DATE	BY	CHK	REVISIONS
1	08/06/12	NEH	AJP	EAST SIDE TRAIL AND CURB LINE REVISED - COMMON FILL INCREASED

Design By: NEH  
 Plan By: CWK  
 Checked By: AJP  
 Approved By: NEH

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

*[Signature]*  
 CERTIFIED BY: MICHAEL E. HENTGES, PE  
 LICENSED PROFESSIONAL ENGINEER  
 DATE: 04/03/12 L.I.C. NO: 44620

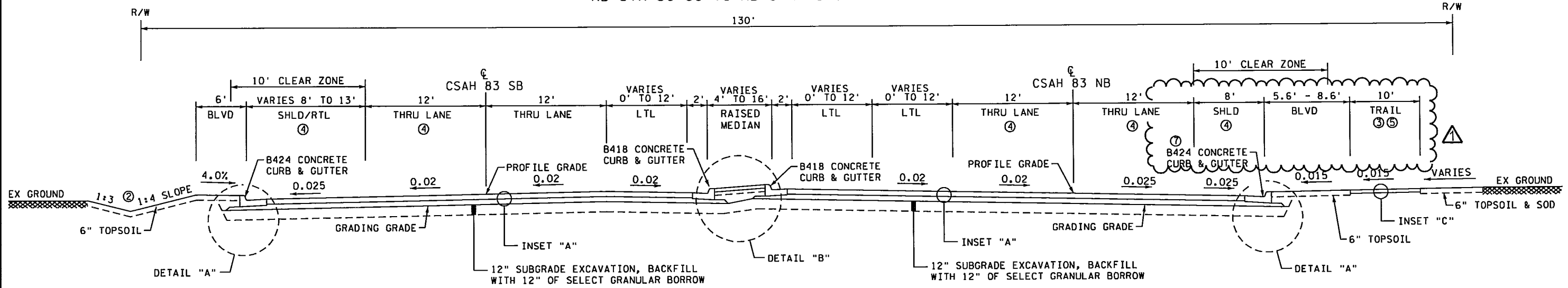
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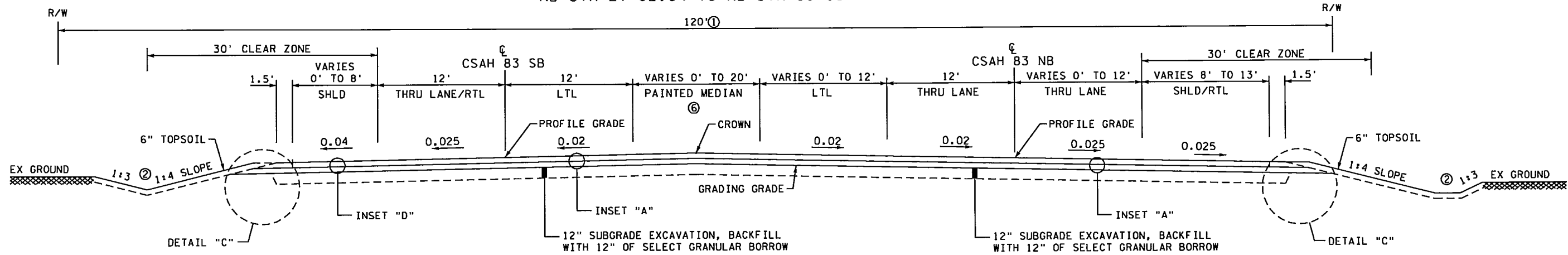
CITY OF RAMSEY, MINNESOTA  
**EARTHWORK TABULATION & SUMMARY**  
 S.A.P. 199-020-010 / C.P. 12-20

SHEET  
**10R**  
 OF  
**153**  
 SHEETS

CSAH 83 (ARMSTRONG BLVD)  
NB STA 36+00 TO NB STA 41+90.68



CSAH 83 (ARMSTRONG BLVD)  
NB STA 27+82.04 TO NB STA 36+00



GENERAL NOTES:

INPLACE PAVEMENT DEPTHS ARE BASED ON SOIL BORINGS AND BEST AVAILABLE INFORMATION. NO GUARANTEES ARE MADE REGARDING THE UNIFORMITY OF THE PAVEMENT THICKNESS.

UNLESS OTHERWISE SPECIFIED, THE GRADING GRADE CROSS SLOPES WILL BE THE SAME AS THE PROPOSED DRIVING SURFACE.

ALL EDGE DIMENSIONS ARE FACE TO FACE OF CURB OR TO THE EDGE OF THE BITUMINOUS PAVEMENT.

FOR LANE WIDTHS SEE CONSTRUCTION PLANS AND FOR CROSS SLOPES AND SUPERELEVATION SEE DRAINAGE, TURF AND EROSION CONTROL PLANS.

ALL CROSS SLOPES ARE FT/FT.

SEE SHEET 12 FOR INSETS AND DETAILS.

NOTES:

① R/W 120' FROM STA 27+00 TO 31+50 & VARIES FROM 160' TO 175' FROM STA 32+00 TO 36+00

② DITCH WIDTH AND DEPTH VARIES. SEE SHEETS 76 - 77 AND CROSS SECTIONS FOR DITCH PROFILES AND WIDTHS

③ TRAIL CONTINUES TO STA 45+26.5

④ CONSTRUCTION ENDS AT STA 40+77.55

⑤ 2 FOOT CLEAR ZONE ON EITHER SIDE OF TRAIL.

⑥ RAISED MEDIAN FROM STA 34+28 (NB) TO STA 35+78 (NB). SEE SHEET 74R.

⑦ EAST SIDE CURB AND GUTTER FROM STA 34+28 TO SUNWOOD DRIVE.

Date Pl-Inted: 8/23/2012  
WSB Filename: K:\01973-010\road\plan\CD020295.rsd.dgn

NO.	DATE	BY	CHK	REVISIONS
1	08/22/12	NEH	AJP	EAST SIDE TRAIL REVISED FROM 8 FEET TO 10 FEET.

Design By: NEH  
Plan By: CWK  
Checked By: AJP  
Approved By: NEH

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

*Michael E. Nentges*  
MICHAEL E. NENTGES, PE  
LICENSED PROFESSIONAL ENGINEER  
DATE: 04/03/12 L.I.C. NO: 44620

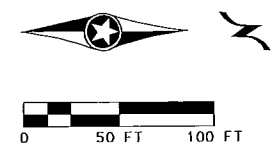
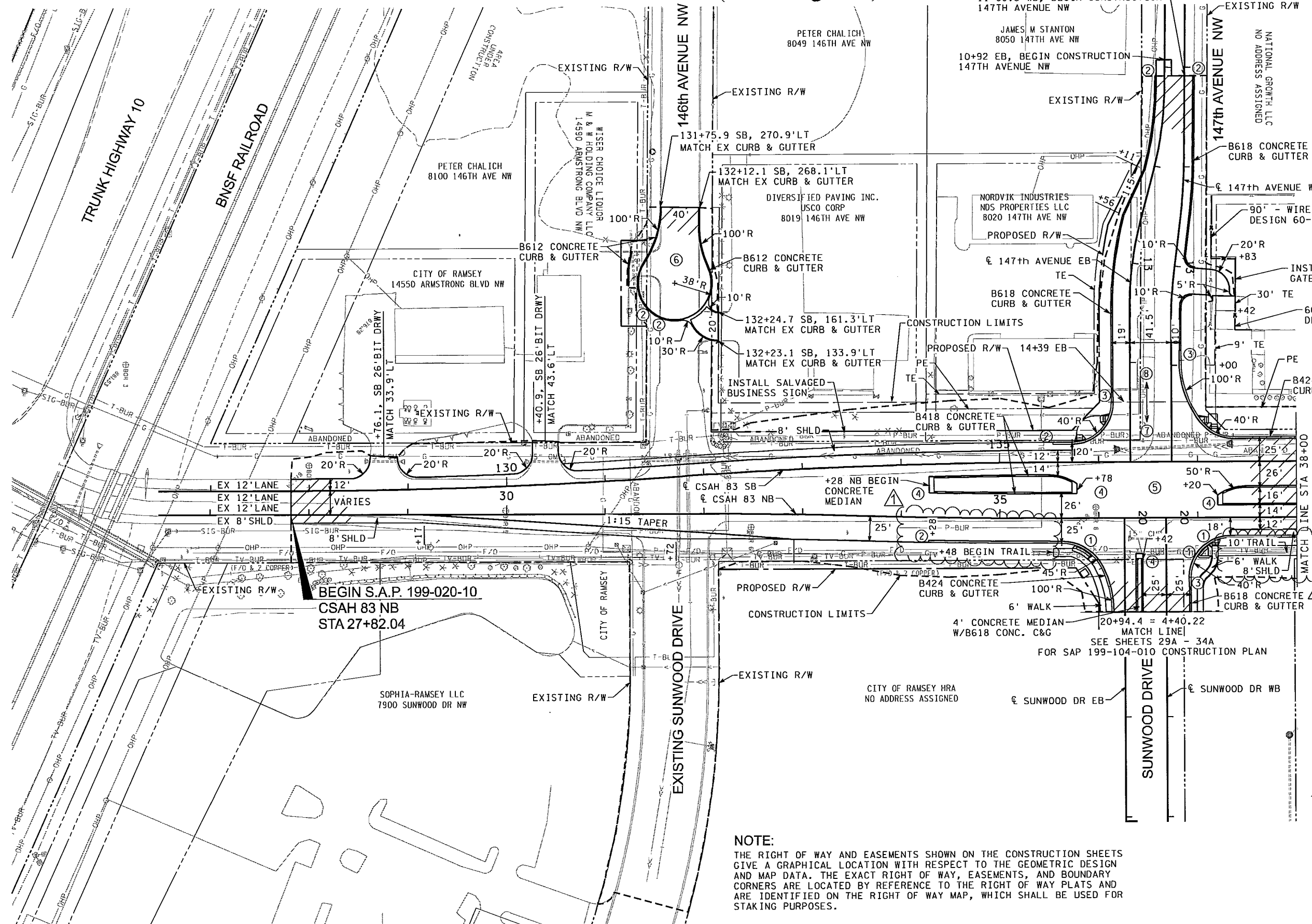
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CITY OF RAMSEY, MINNESOTA  
TYPICAL SECTIONS  
S.A.P. 199-020-010 / C.P. 12-20

SHEET  
14R  
OF  
153  
SHEETS

# CSAH 83 (Armstrong Blvd)



- ### LEGEND
- ① PEDESTRIAN CURB RAMP  
SEE DETAILS, SHEETS DT1-DT6
  - ② 3' CURB TRANSITION FROM  
FULL HEIGHT TO 0" HEIGHT
  - ③ 10' TRANSITION FROM B424 TO  
B618 CONCRETE CURB & GUTTER
  - ④ CONCRETE APPROACH NOSE  
DESIGN 7113
  - ⑤ SEE SHEET 79 FOR CSAH 83 &  
SUNWOOD DR./147TH AVE  
INTERSECTION DETAILS.
  - ⑥ SEE SHEET 80 FOR 146TH  
AVE NW CUL-DE-SAC DETAILS.
  - ⑦ SEE INSET A ON SHEET 12  
FOR PAVEMENT SECTION
  - ⑧ SEE INSET B ON SHEET 12  
FOR PAVEMENT SECTION
  - INPLACE ROADWAY
  - ▨ NEW CONSTRUCTION

- ### NOTES
1. ALL ROADWAY DIMENSIONS ARE TO EDGE OF BITUMINOUS UNLESS OTHERWISE NOTED.
  2. SEE SIGNING AND PAVEMENT MARKING PLAN FOR LANE WIDTHS AND TRAFFIC DIRECTIONS.
  3. SEE DRAINAGE & SUPERELEVATION PLAN FOR PAVEMENT CROSS SLOPES & STORM SEWER.

**NOTE:**  
THE RIGHT OF WAY AND EASEMENTS SHOWN ON THE CONSTRUCTION SHEETS GIVE A GRAPHICAL LOCATION WITH RESPECT TO THE GEOMETRIC DESIGN AND MAP DATA. THE EXACT RIGHT OF WAY, EASEMENTS, AND BOUNDARY CORNERS ARE LOCATED BY REFERENCE TO THE RIGHT OF WAY MAP, WHICH SHALL BE USED FOR STAKING PURPOSES.

Date Printed: 8/23/2012  
WSB Filename: K:\01973-010\lead\plan\CD020295\_cpo1.dgn

NO.	DATE	BY	CHK	REVISIONS
1	08/22/12	NEH	AJP	EAST SIDE TRAIL REVISED FROM 8 FEET TO 10 FEET. EAST SIDE CURB LINE EXTENDED SOUTH TO STA 34+28.

Design By: NEH  
 P.Tan By: CWK  
 Checked By: AJP  
 Approved By: NEH

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

CERTIFIED BY: *[Signature]*  
 LICENSED PROFESSIONAL ENGINEER  
 DATE: 04/03/12 L.T.C. NO: 44620

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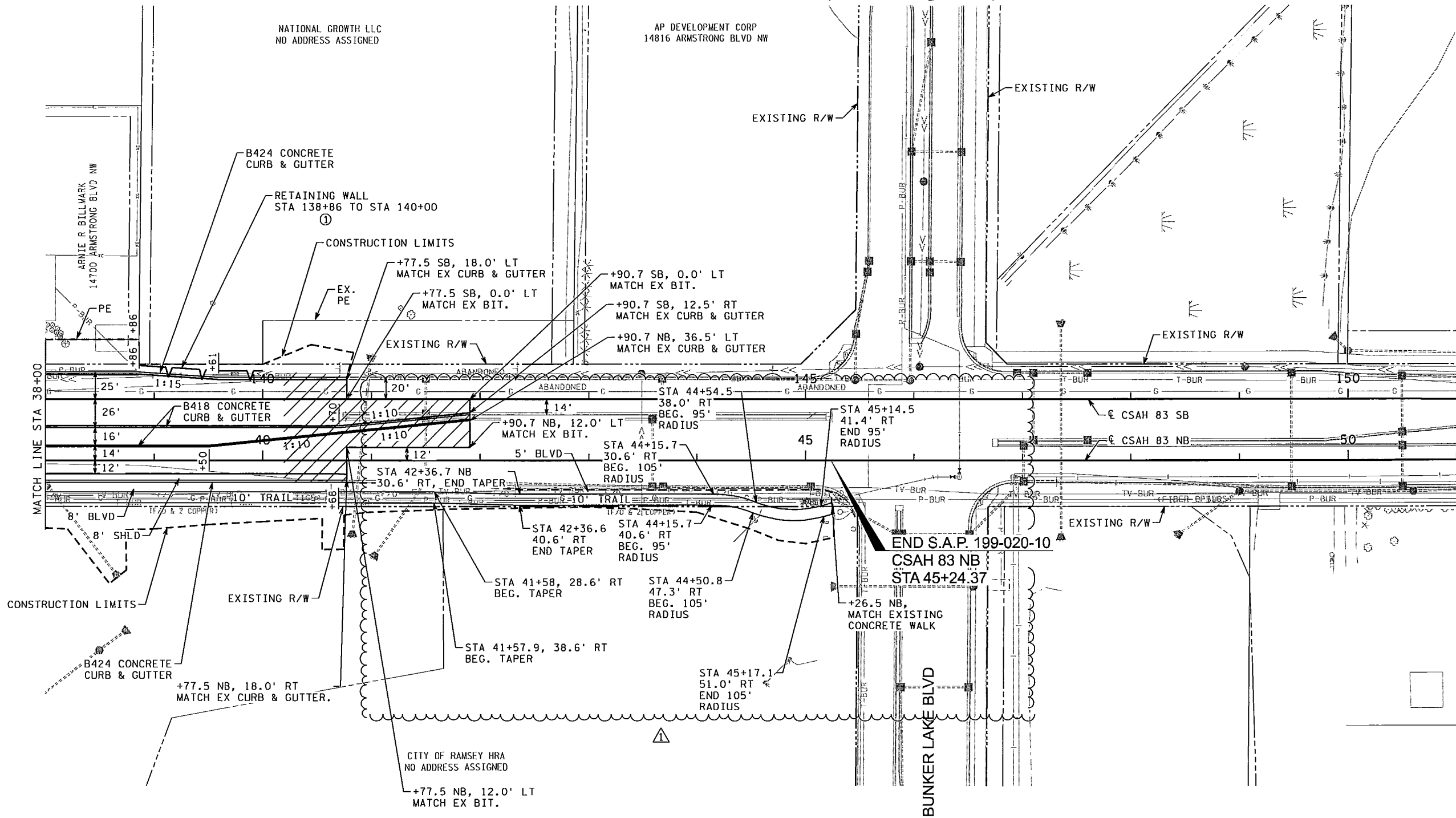
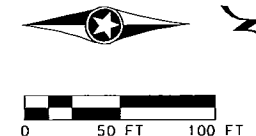
**CITY OF RAMSEY, MINNESOTA**  
 STA 26+00 TO STA 38+00  
**CONSTRUCTION PLAN**  
 S.A.P. 199-020-010 / C.P. 12-20

SHEET  
**74R**  
 OF  
**153**  
 SHEETS

# CSAH 83 (Armstrong Blvd)

NATIONAL GROWTH LLC  
NO ADDRESS ASSIGNED

AP DEVELOPMENT CORP  
14816 ARMSTRONG BLVD NW



### LEGEND

- INPLACE ROADWAY
- NEW CONSTRUCTION
- SEE SHEET 81 FOR DETAILS

### NOTES

1. ALL ROADWAY DIMENSIONS ARE TO EDGE OF BITUMINOUS UNLESS OTHERWISE NOTED.
2. SEE SIGNING AND PAVEMENT MARKING PLAN FOR LANE WIDTHS AND TRAFFIC DIRECTIONS.
3. SEE DRAINAGE & SUPERELEVATION PLAN FOR PAVEMENT CROSS SLOPES & STORM SEWER.

Date Printed: 8/23/2012  
WSB Filename: K:\01973-010\Lead\plan\CD02020295\_cp02.dgn

NO.	DATE	BY	CHK	REVISIONS
1	08/22/12	NEH	AJP	EAST SIDE TRAIL REVISED FROM 8 FEET TO 10 FEET, ALIGNMENT REVISED NEAR BUNKER LAKE BLVD.

Design By: NEH  
 Plan By: CWK  
 Checked By: AJP  
 Approved By: NEH

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

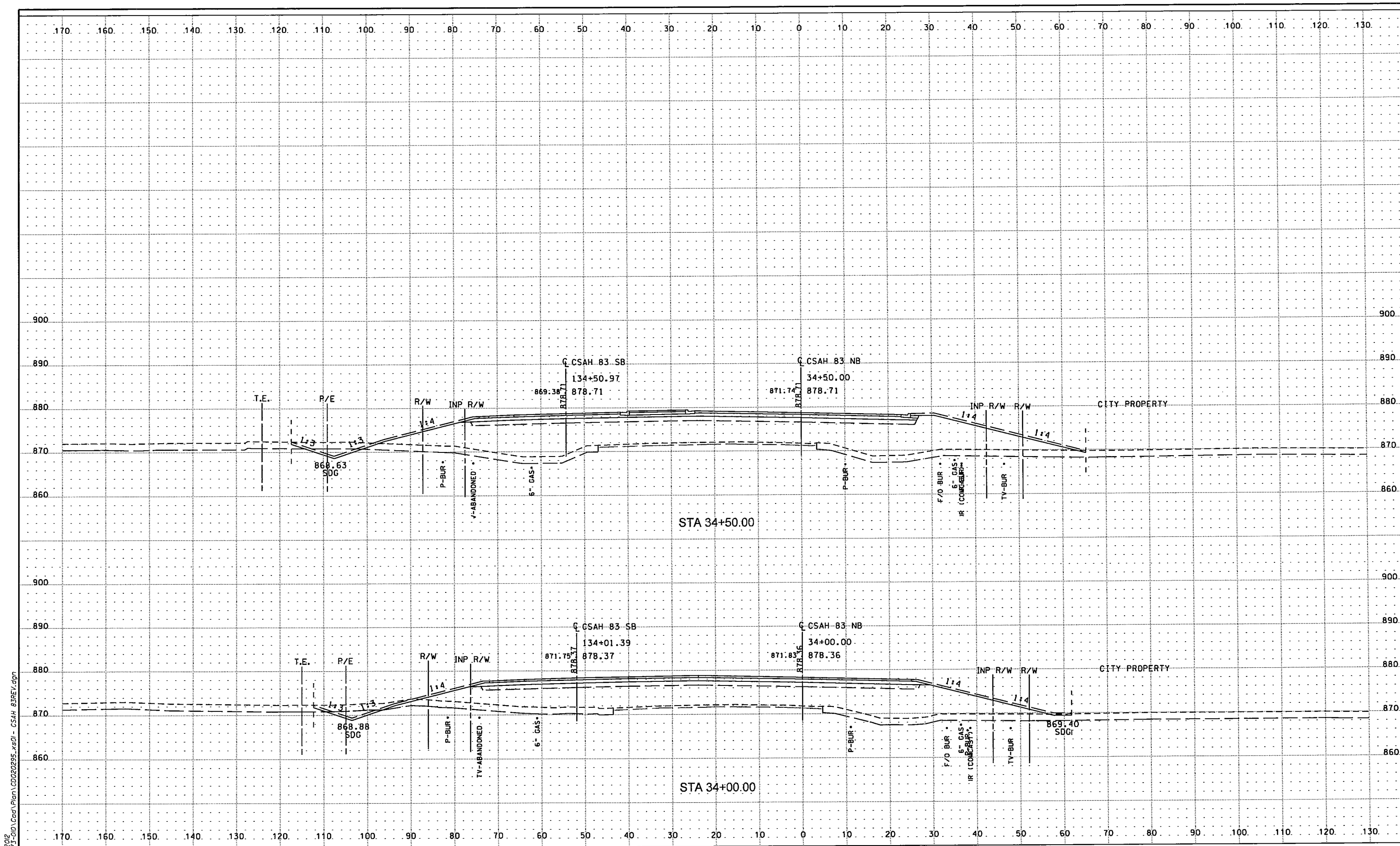
CERTIFIED BY:   
 LICENSED PROFESSIONAL ENGINEER NICHOLAS E. HENTGES, PE  
 DATE: 04/03/12 LIC. NO.: 44620

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**City of RAMSEY**  
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**CITY OF RAMSEY, MINNESOTA**  
 STA 38+00 TO STA 51+00  
**CONSTRUCTION PLAN**  
 S.A.P. 199-020-010 / C.P. 12-20


SHEET  
**75R**  
 OF  
**153**  
 SHEETS



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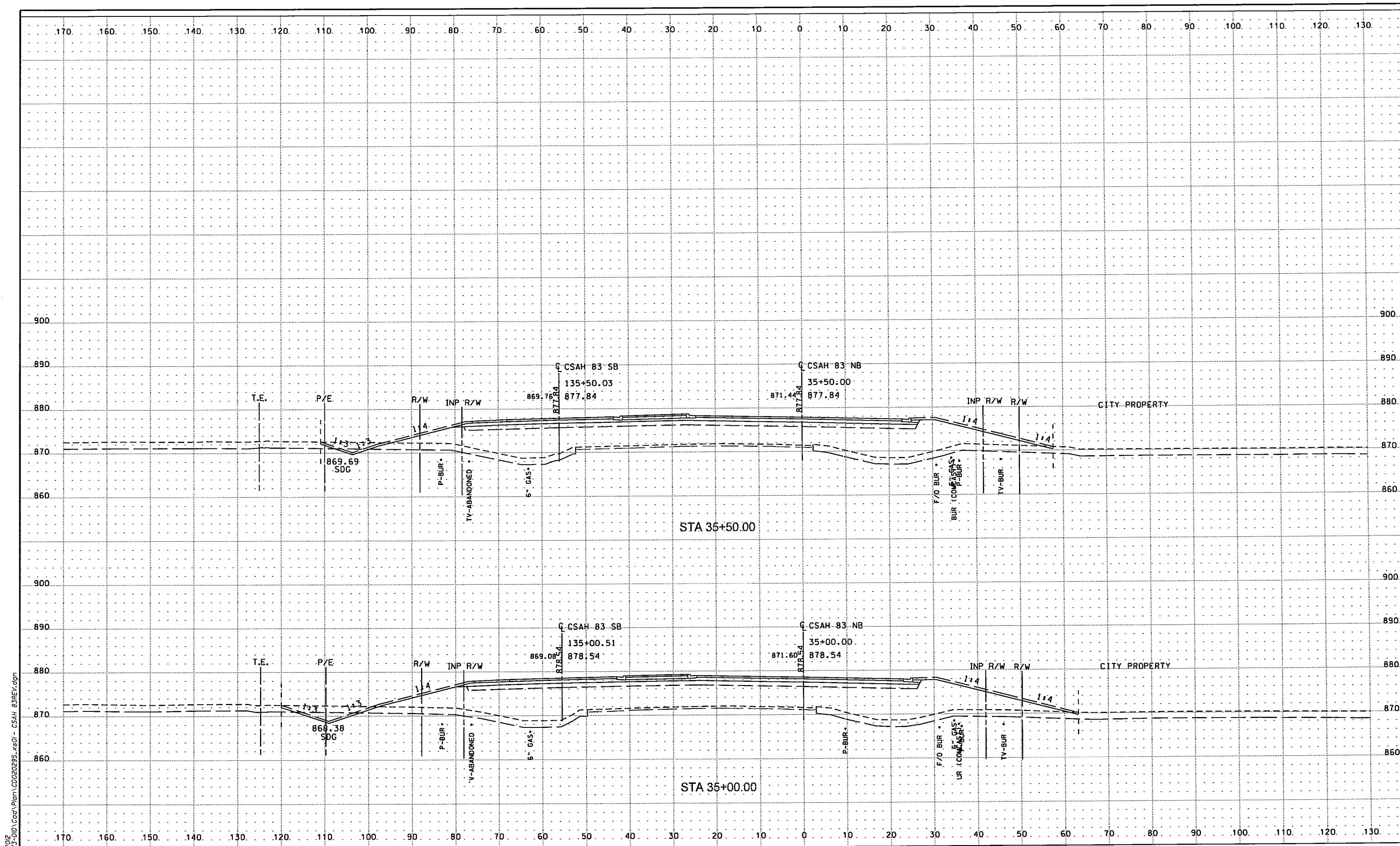
NO.	DATE	BY	CHK	REVISIONS
1	08/22/12	MEH	AJP	CURB AND DUTTER ADDED FROM STA 34+28 TO 35+58


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**CITY OF RAMSEY, MINNESOTA**  
 STA 34+00.00 TO STA 34+50.00  
**CROSS SECTIONS - CSAH 83**  
 S.A.P. 199-020-010 / C.P. 12-20


SHEET  
**136R**  
 OF  
**153**  
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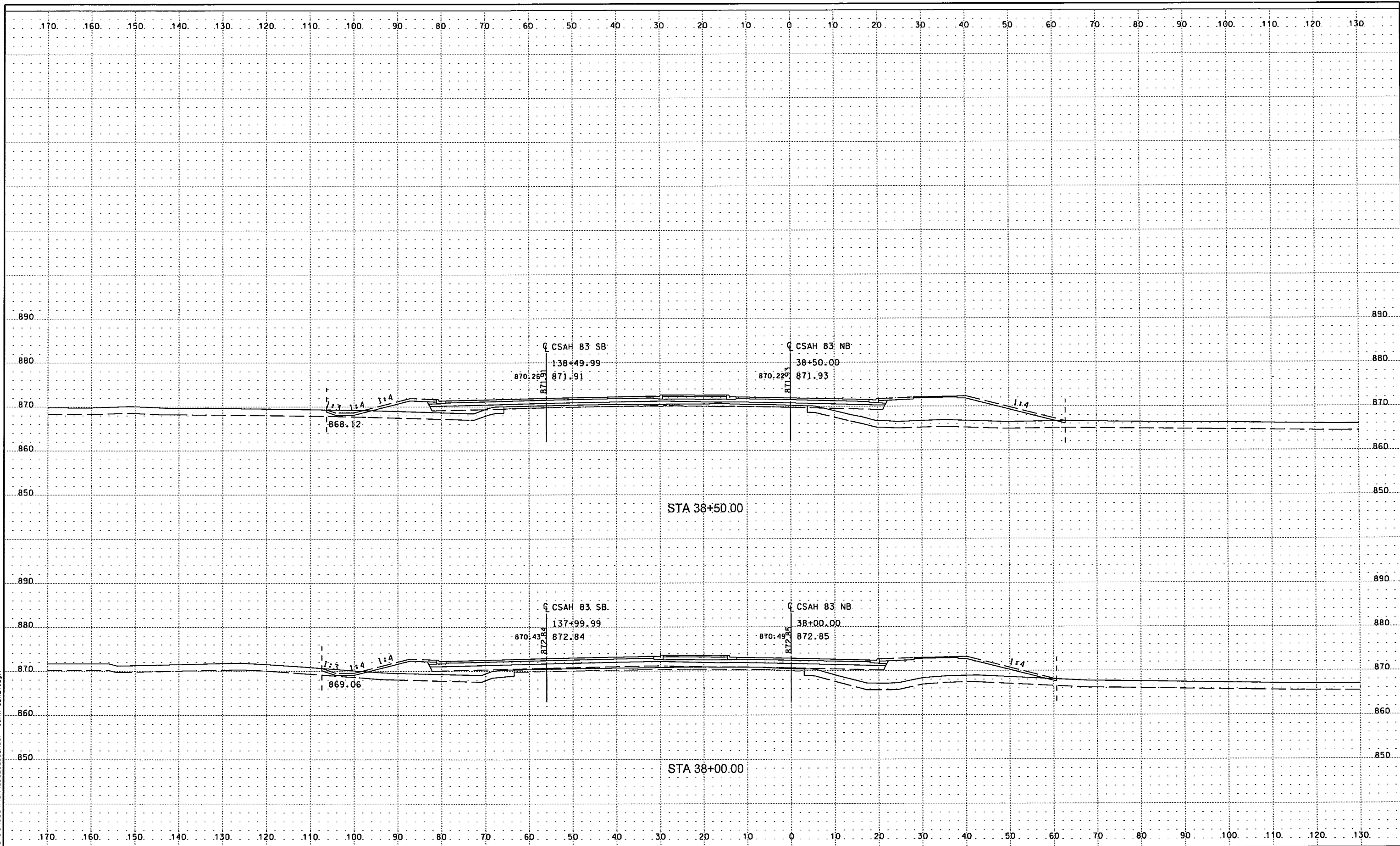
NO.	DATE	BY	CHK	REVISIONS
1	08/22/12	MEH	AJP	CURB AND CUTTER ADDED FROM STA 34+28 TO 35+58


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 City of Ramsey, Minnesota

**CITY OF RAMSEY, MINNESOTA**  
 STA 35+00.00 TO STA 35+50.00  
**CROSS SECTIONS - CSAH 83**  
 S.A.P. 199-020-010 / C.P. 12-20

SHEET  
**137R**  
 OF  
**153**  
 SHEETS



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 WSB Filename: K:\01973-00\Cad\Plan\CDD020255\_xsd1 - CSAH 83REV.dgn

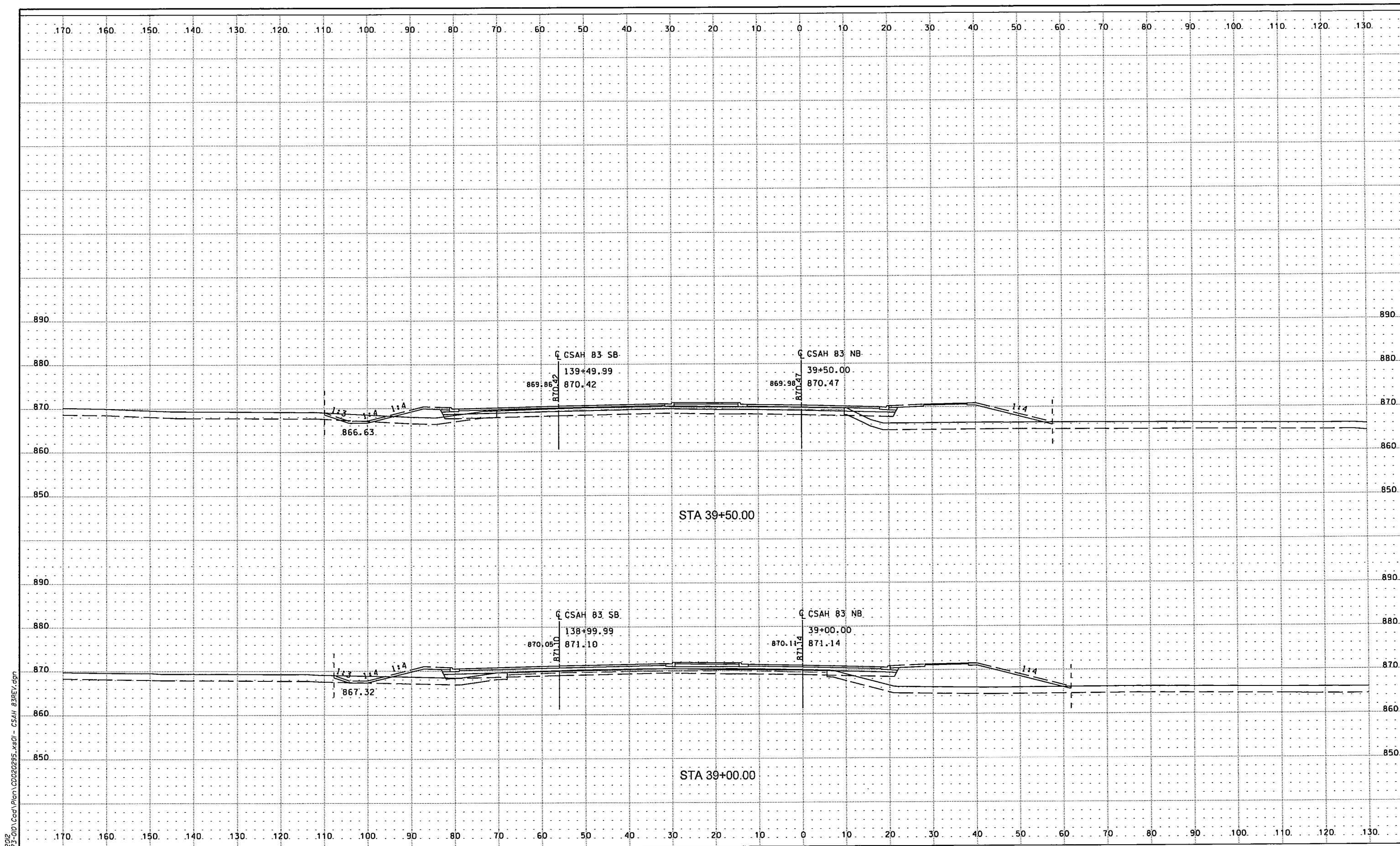
NO.	DATE	BY	CHK	REVISIONS
1	08/22/12	MEH	AJP	EAST SIDE BLVD AND TRAIL REVISED

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**City of RAMSEY**  
 Armstrong Blvd at Sunwood Drive  
 City of Ramsey, Minnesota

**CITY OF RAMSEY, MINNESOTA**  
 STA 38+00.00 TO STA 38+50.00  
**CROSS SECTIONS - CSAH 83**  
 S.A.P. 199-020-010 / C.P. 12-20


**SHEET 139R**  
 OF 153  
 SHEETS



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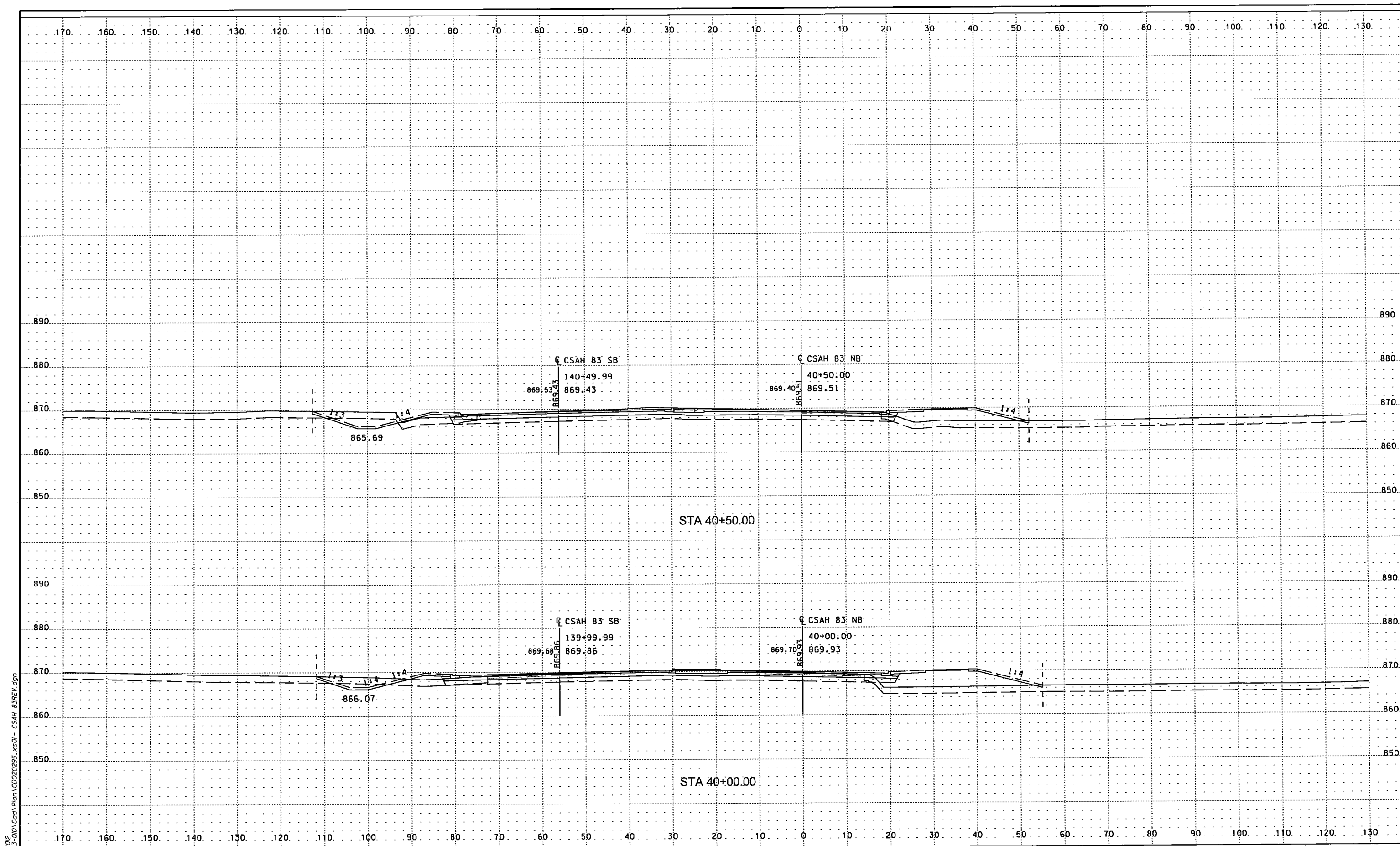
NO.	DATE	BY	CHK	REVISIONS
1	06/22/12	MEH	AJP	EAST SIDE BLVD AND TRAIL REVISED


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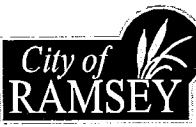
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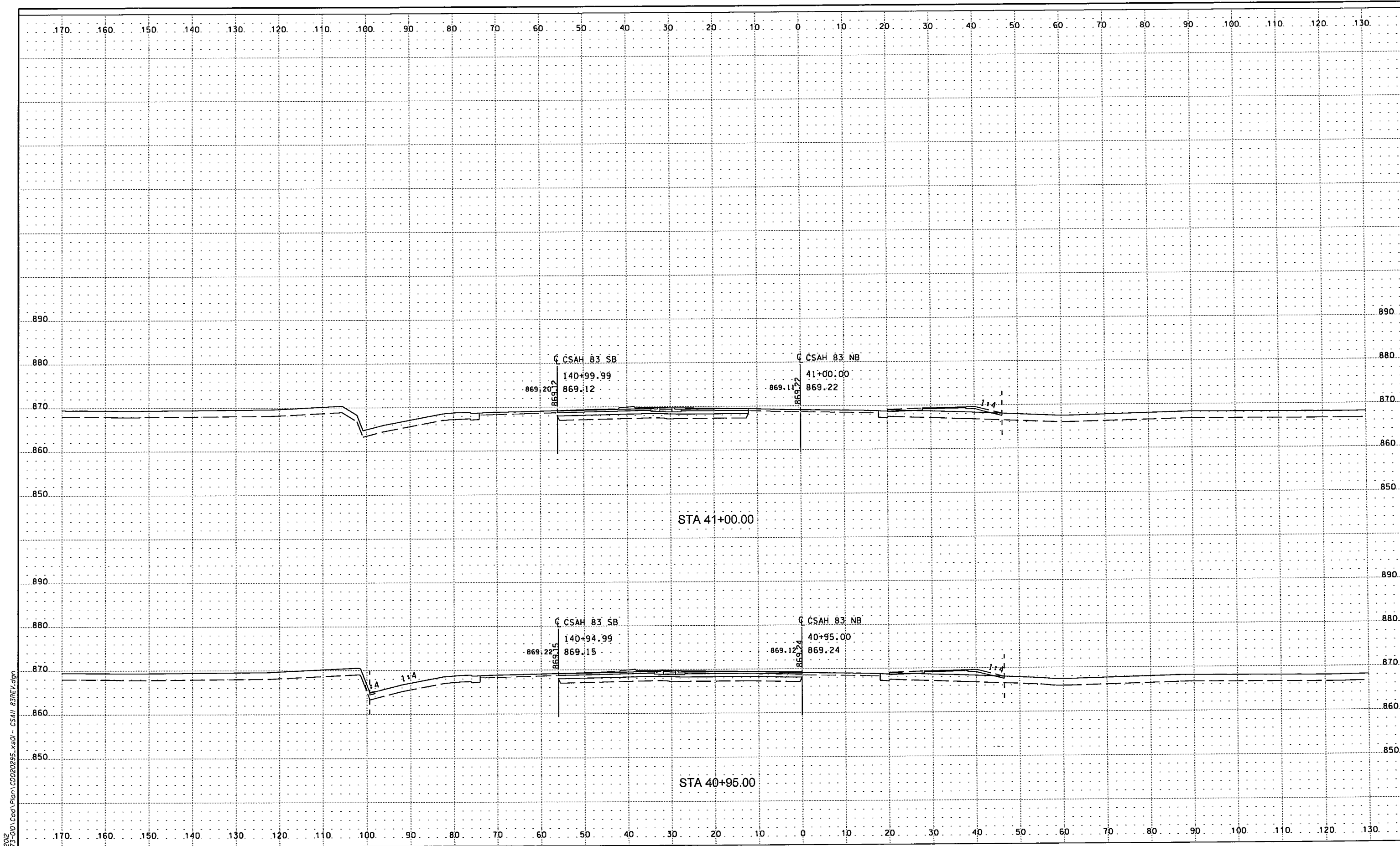
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**141R**  
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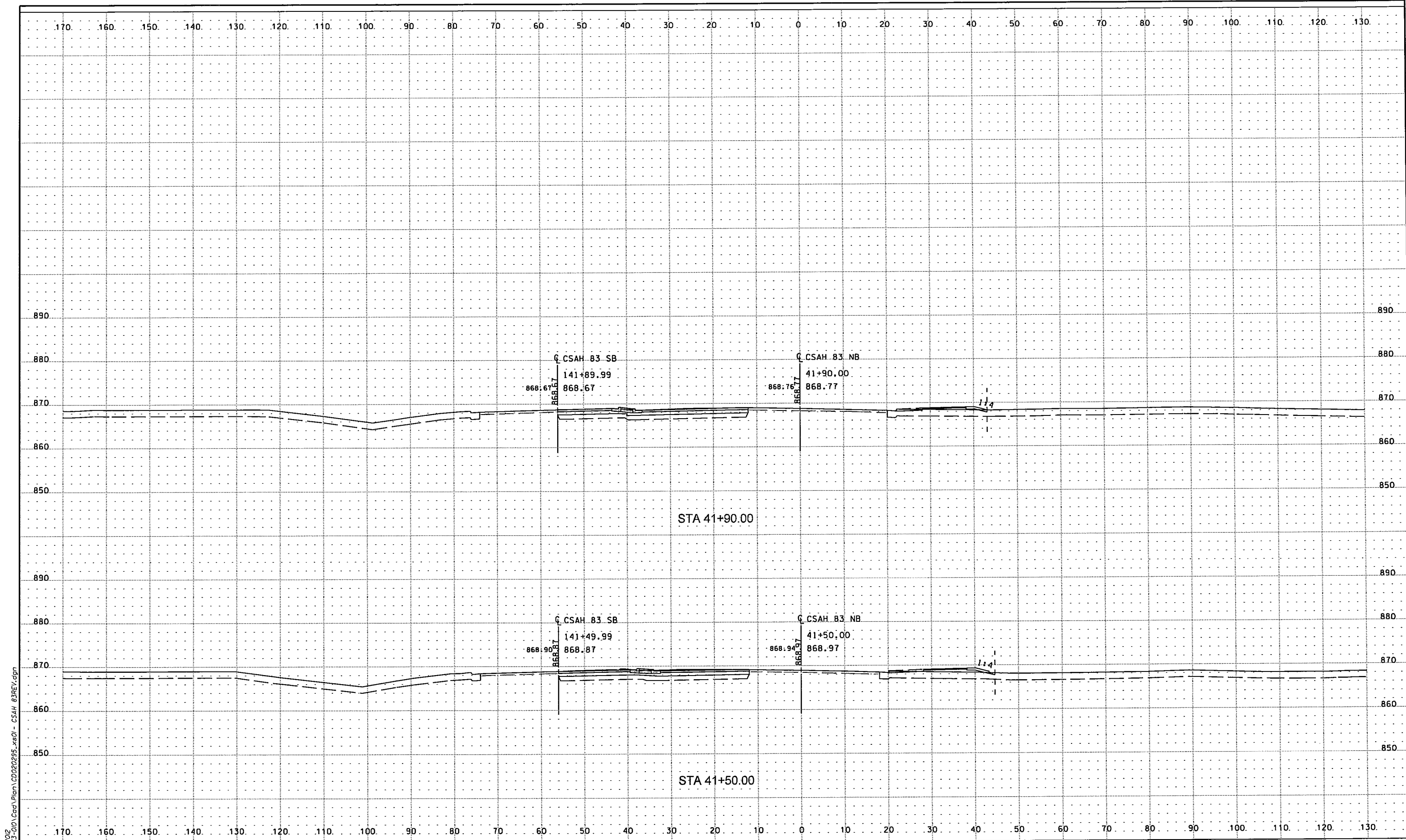
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SHEET  
**142R**  
 OF  
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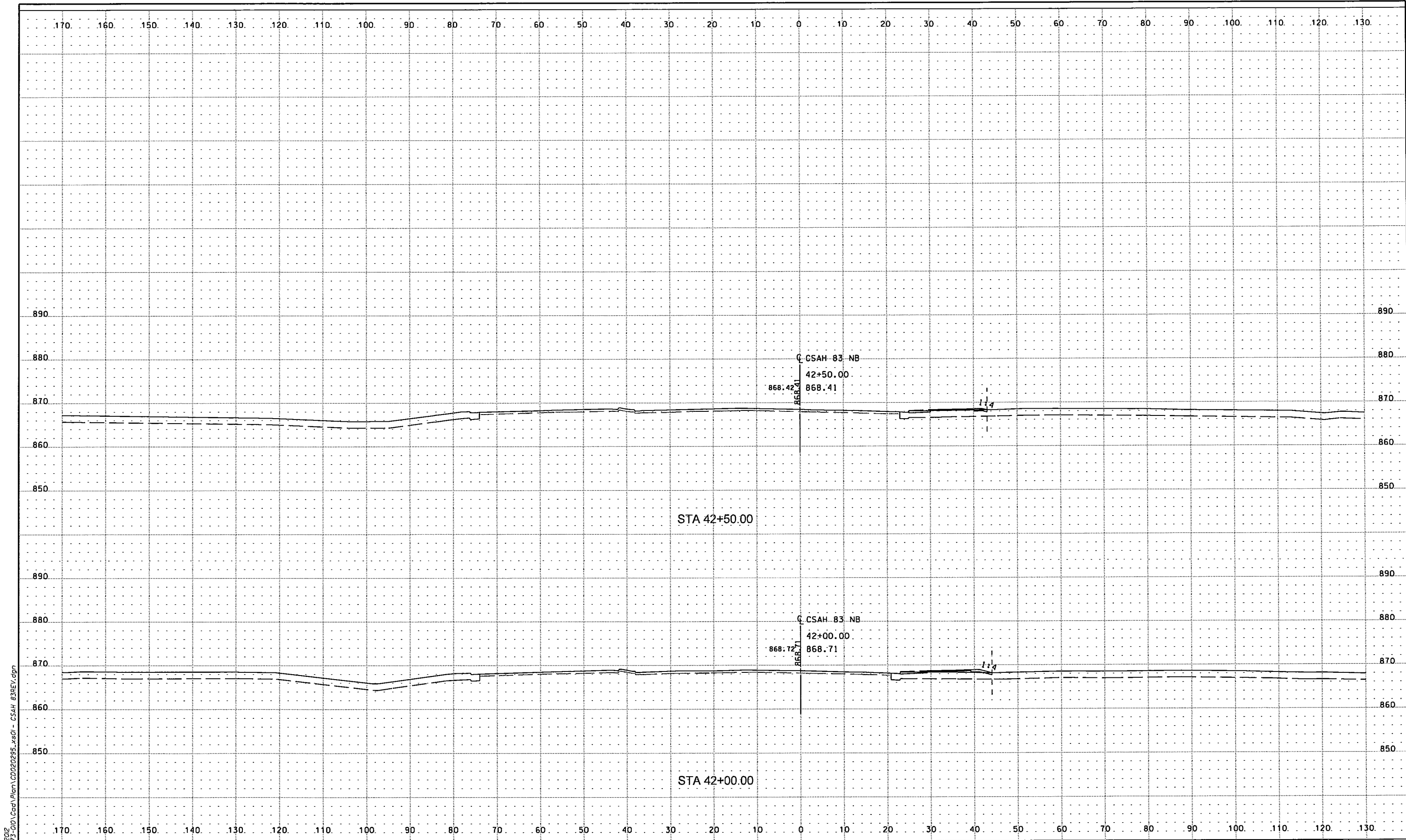
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**SHEET 143R**  
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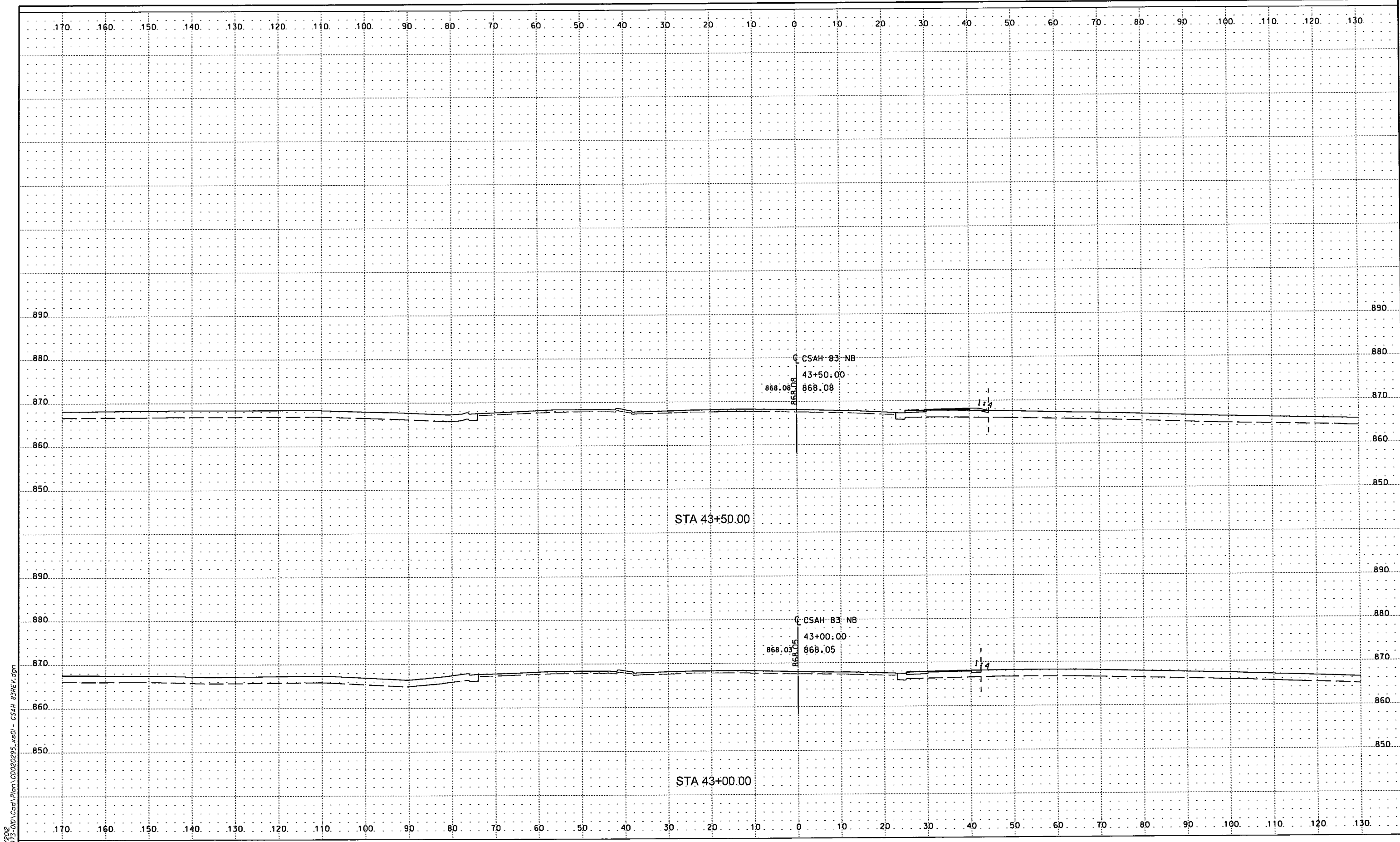
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**144R**  
 OF  
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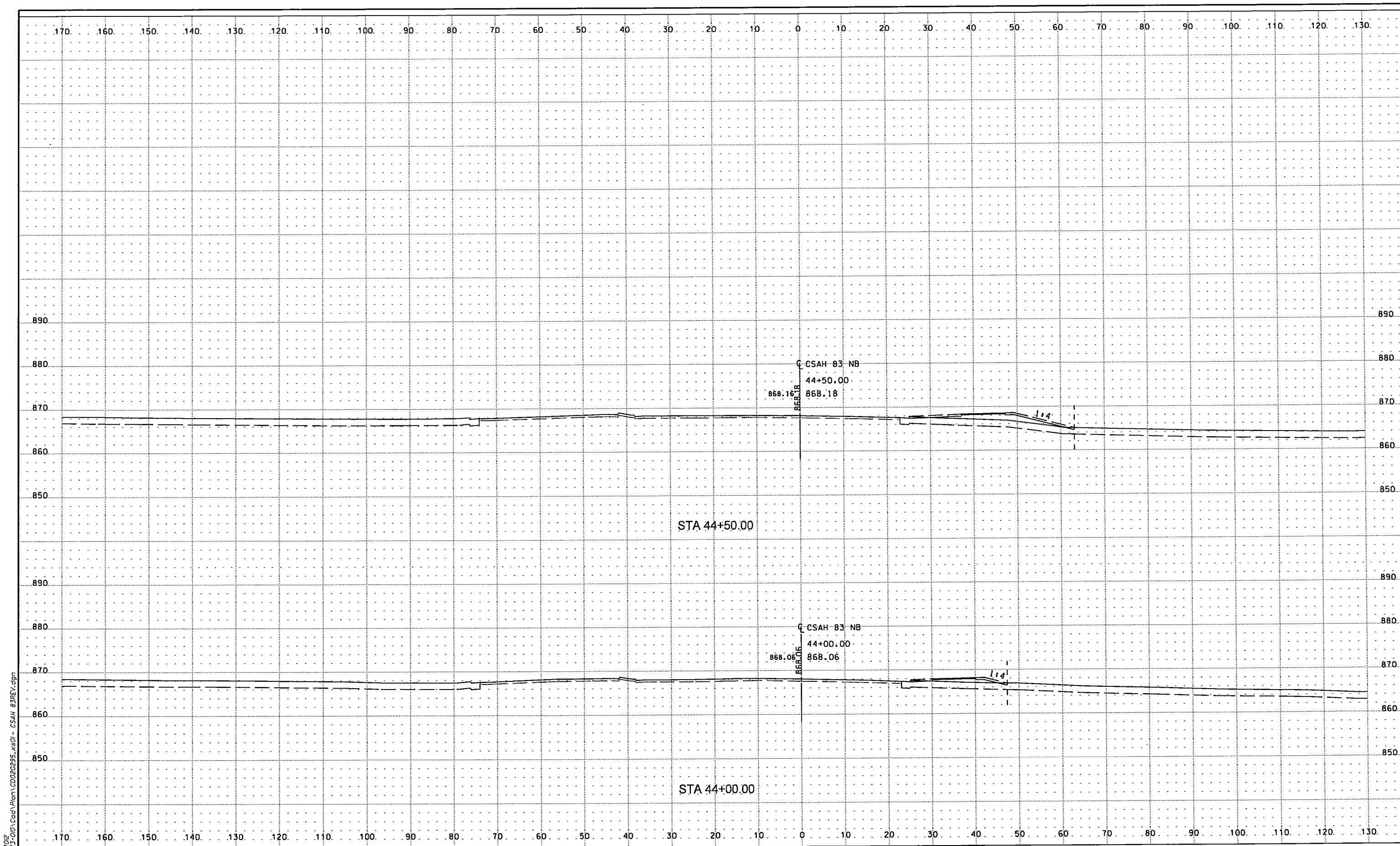
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**145R**  
 OF  
**153**  
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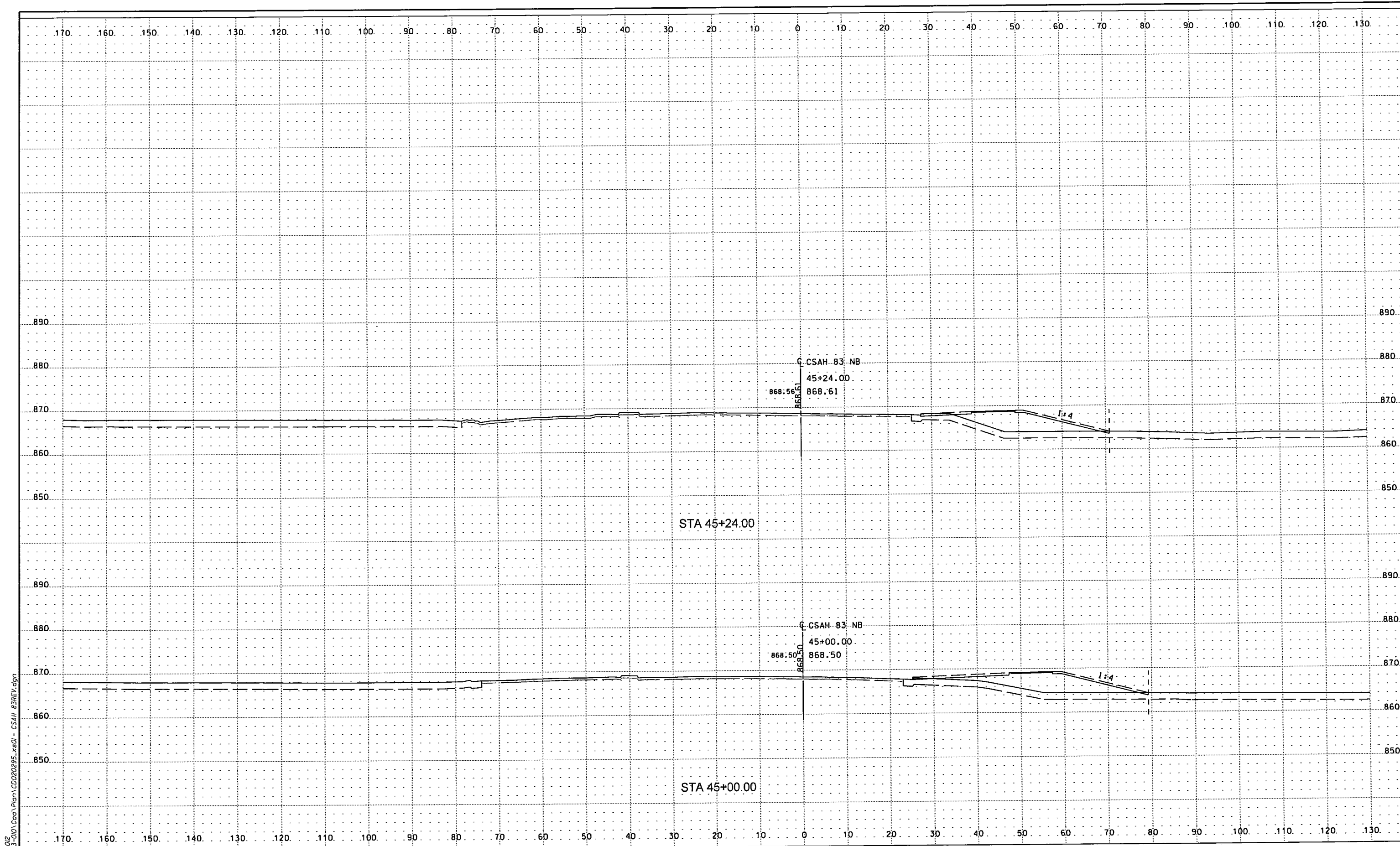
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**146R**  
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**147R**  
 OF  
**153**  
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