

BITUMINOUS & AGGREGATE							A
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		
PROJECT TOTALS	3265	1420	4332	108	129	56	8403

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

CONCRETE										B
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	SQ YD	EACH	SQ FT
S.A.P. 199-020-010										
CSAH 83 (ARMSTRONG BLVD)										
27+82.04 TO 38+00	487	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							
PROJECT TOTALS	1126	1348	779	392	12	1989	8140	6	4	124

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

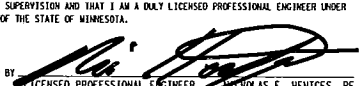
NOTES:
(1) HIGH EARLY CONCRETE

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NO.	DATE	BY	CHK	REVISIONS
1	08/06/12	NEH	AJP	EAST SIDE TRAIL REVISED

Design By: NEH
Pion 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

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 EXCAVATION

S.A.P. 199-020-010 8018 CU YD (EV)

COMMON MATERIAL BALANCE

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)

EMBANKMENT

S.A.P. 199-020-010 18268 CU YD (CV)

(8180 - 18268)

= 10088 CU YD (CV) BORROW

SELECT GRADING

S.A.P. 199-020-010 5861 CU YD (CV)

SELECT GRANULAR BALANCE (5861) CU YD (CV)

= 5861 CU YD (CV) BORROW

SELECT GRANULAR EMBANKMENT

S.A.P. 199-020-010 1649 CU YD (CV)

TOPSOIL BALANCE (1649) CU YD (CV)

*1.4 = 2309 CU YD (LV) BORROW

TOPSOIL

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.

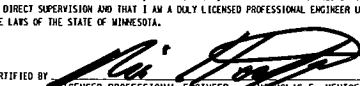
* SEE SHEETS 60A - 62A FOR SAP 199-104-010 MASS GRADING PLAN AND FOR THE LAKE RAMSEY BORROW AREA GRADING PLAN. GRANULAR AND SELECT GRANULAR BORROW TO BE TAKEN FROM THE LAKE RAMSEY BORROW AREA, UNLESS OTHERWISE APPROVED BY THE ENGINEER. SEE SHEETS 61A FOR LOCATION AND DETAILS.

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NO.	DATE	BY	CHK	REVISIONS
1	08/06/12	NEH	AJP	EAST SIDE TRAIL REVISED - COMMON FILL INCREASED

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 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
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 OF
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 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		1626	187	74
34+50	TO	35+00	8	74		347	38	16
35+00	TO	35+50	49	349		1578	192	72
35+50	TO	35+91	23	280		1305	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	16522	4515	1336

174
135
▲

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	16,522	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	18,268	5,861	1,649

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

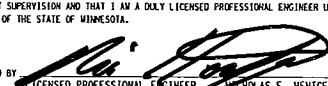
* SEE SHEETS 60A - 62A FOR SAP 199-104-010 MASS GRADING PLAN AND FOR THE LAKE RAMSEY BORROW AREA GRADING PLAN. GRANULAR AND SELECT GRANULAR BORROW TO BE TAKEN FROM THE LAKE RAMSEY BORROW AREA, UNLESS OTHERWISE APPROVED BY THE ENGINEER. SEE SHEETS 61A FOR LOCATION AND DETAILS.

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NO.	DATE	BY	CHK	REVISIONS
1	08/06/12	NEH	AJP	EAST SIDE TRAIL 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 DAILY 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.C. NO: 44620

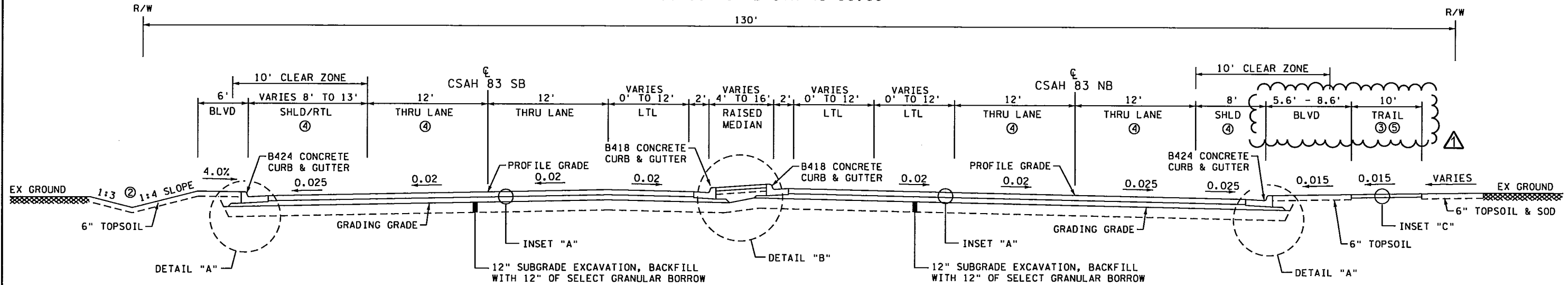
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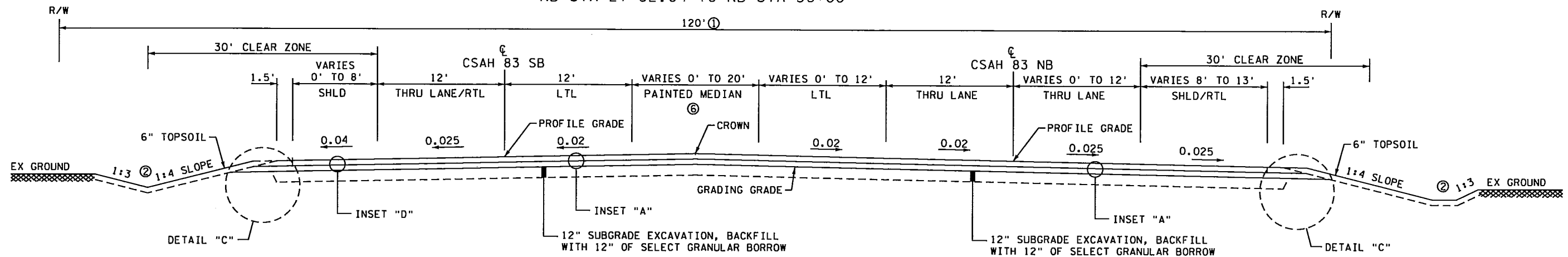
CITY OF RAMSEY, MINNESOTA
EARTHWORK TABULATION & SUMMARY
S.A.P. 199-020-010 / C.P. 12-20

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.

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NO.	DATE	BY	CHK	REVISIONS
1	8/06/12	NEH	AJP	EAST SIDE TRAIL REVISED FROM 8 FEET TO 10 FEET.

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

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

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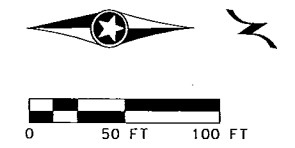
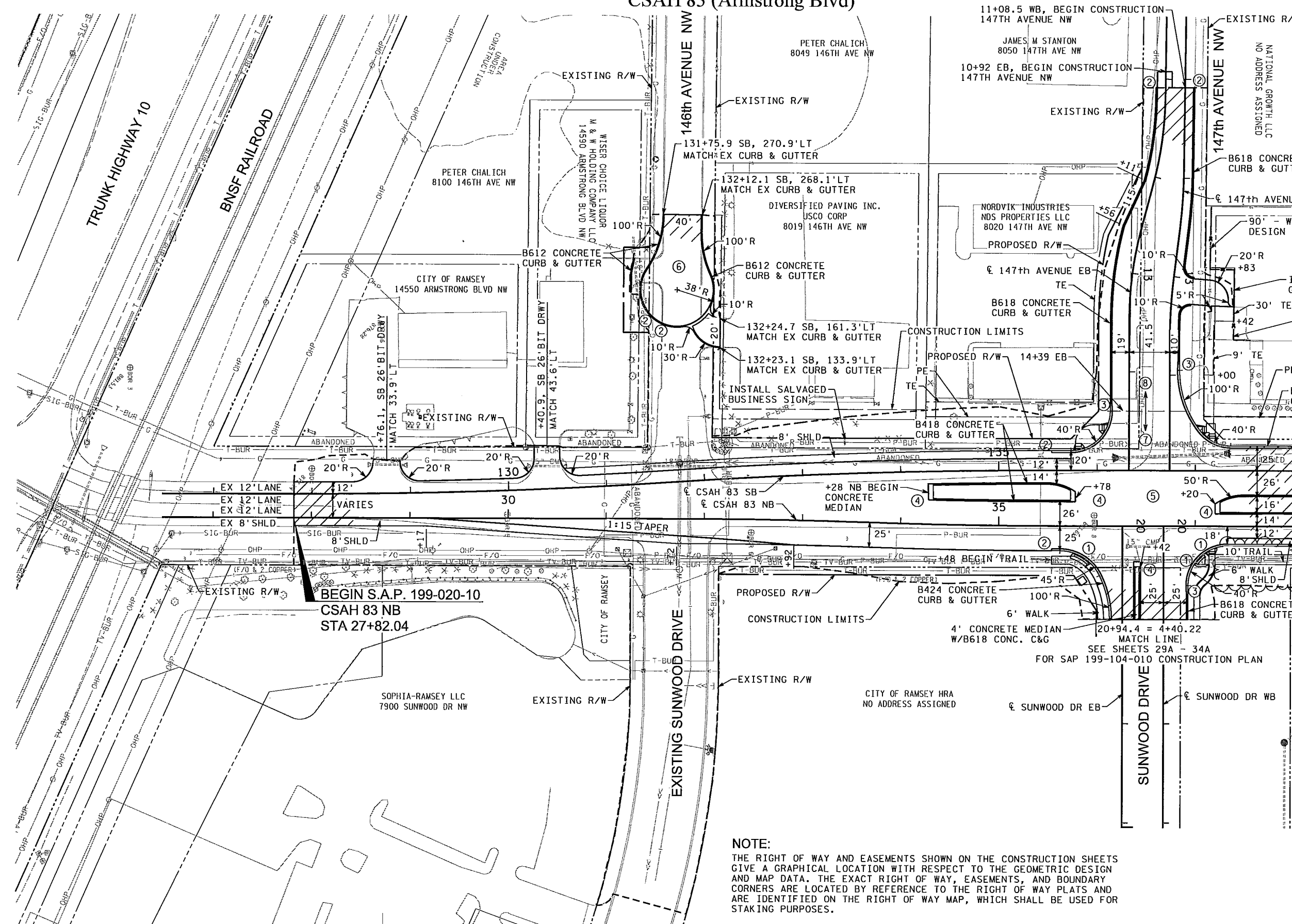
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City of Ramsey, Minnesota

CITY OF RAMSEY, MINNESOTA

TYPICAL SECTIONS
S.A.P. 199-020-010 / C.P. 12-20

SHEET
14R
OF
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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 PLATS AND ARE IDENTIFIED ON THE RIGHT OF WAY MAP, WHICH SHALL BE USED FOR STAKING PURPOSES.

Date Printed: 8/7/2012
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NO.	DATE	BY	CHK	REVISIONS
1	08/06/12	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.

CERTIFIED BY: *Nicholas E. Hentges*
 LICENSED PROFESSIONAL ENGINEER
 DATE: 04/03/12 L.C. NO: 44620

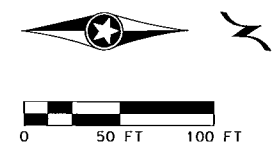
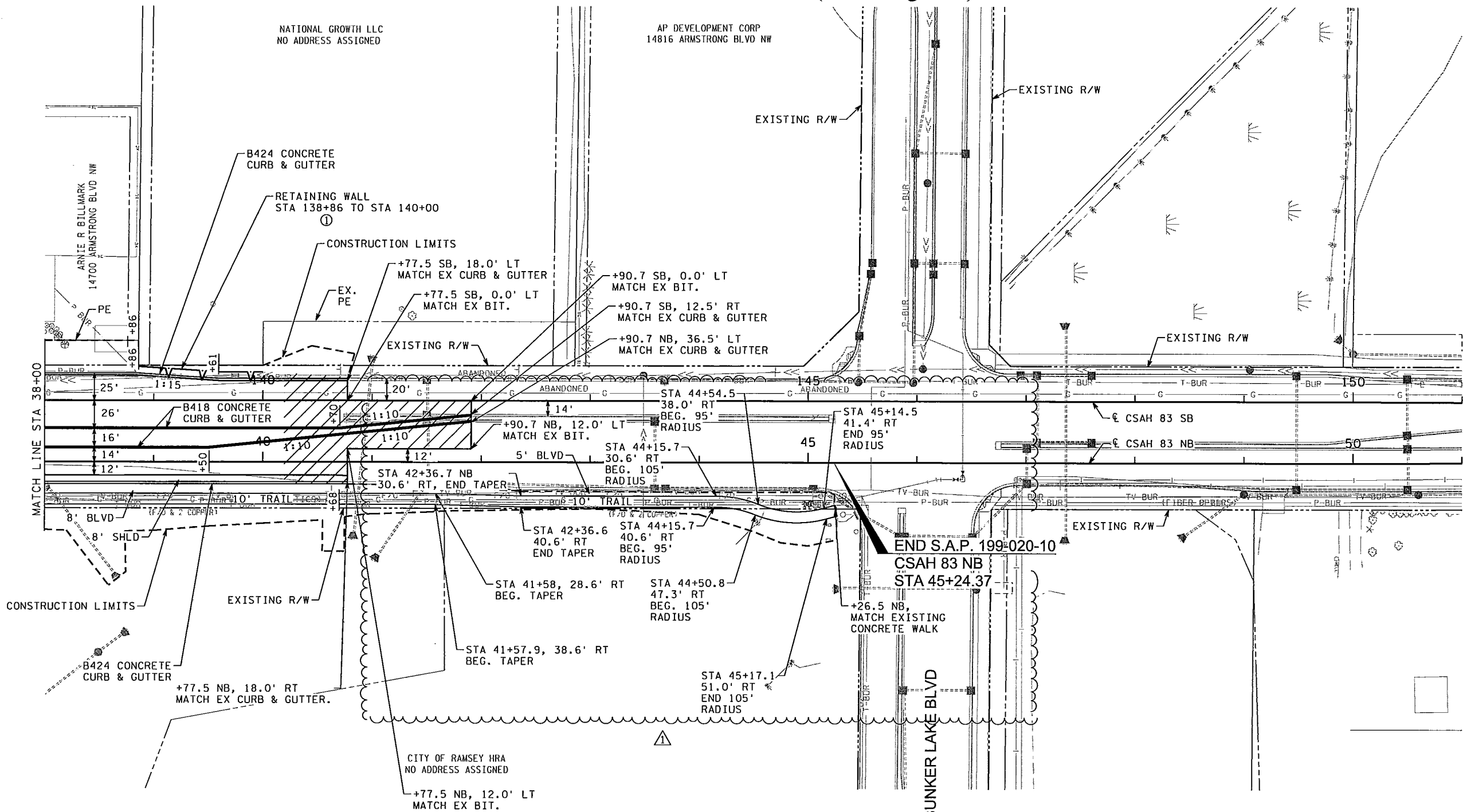
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CITY OF RAMSEY, MINNESOTA
 STA 26+00 TO STA 38+00
CONSTRUCTION PLAN
 S.A.P. 199-020-010 / C.P. 12-20

SHEET
74R
 OF
153
 SHEETS

CSAH 83 (Armstrong Blvd)



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 & STROM SEWER.

Date Printed: 8/17/2012
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NO.	DATE	BY	CHK	REVISIONS
1	8/06/12	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

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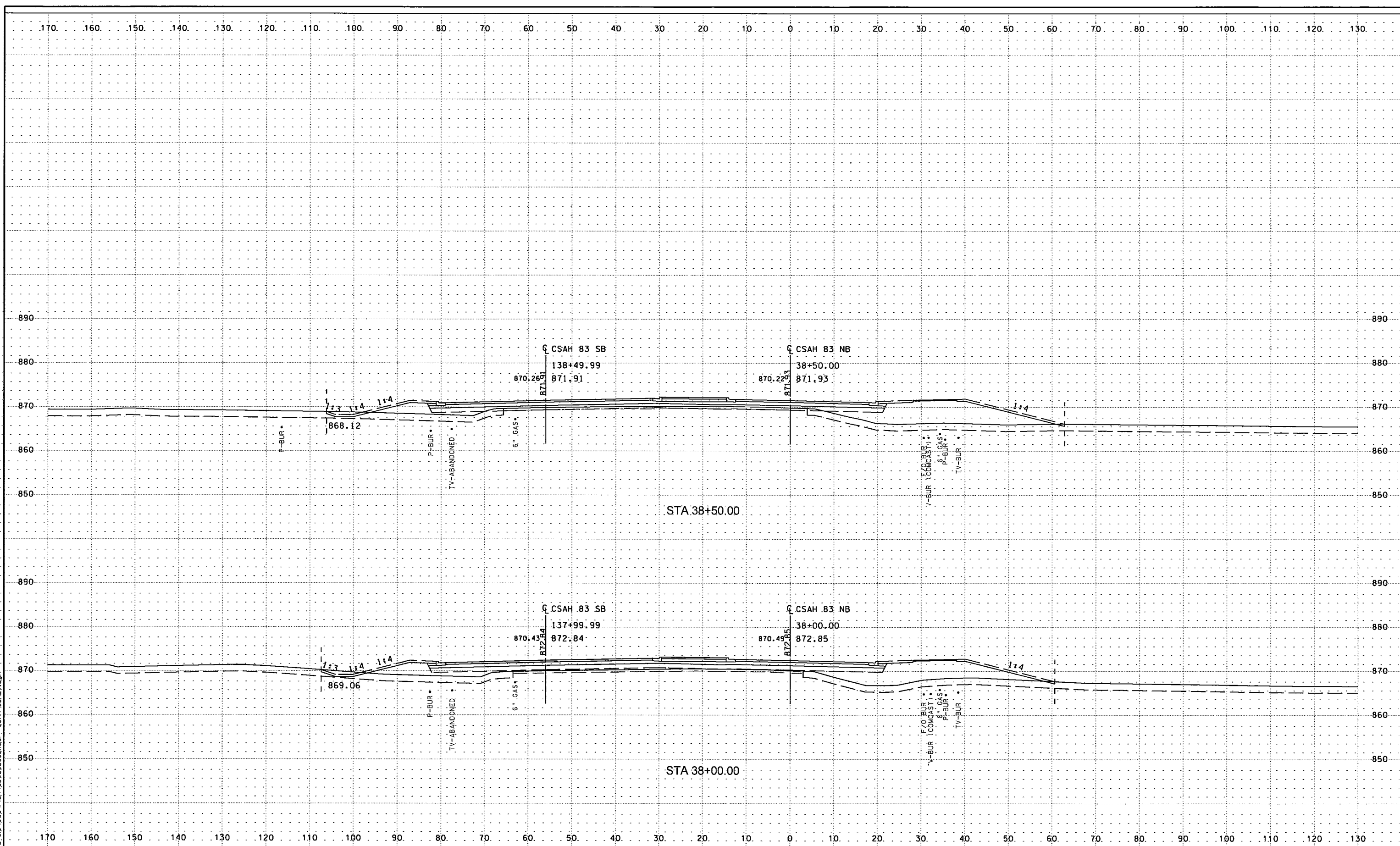
CERTIFIED BY:
 LICENSED PROFESSIONAL ENGINEER NICHOLAS E. HEWIGES, PE
 DATE: 04/03/12 LIC. NO.: 44620

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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
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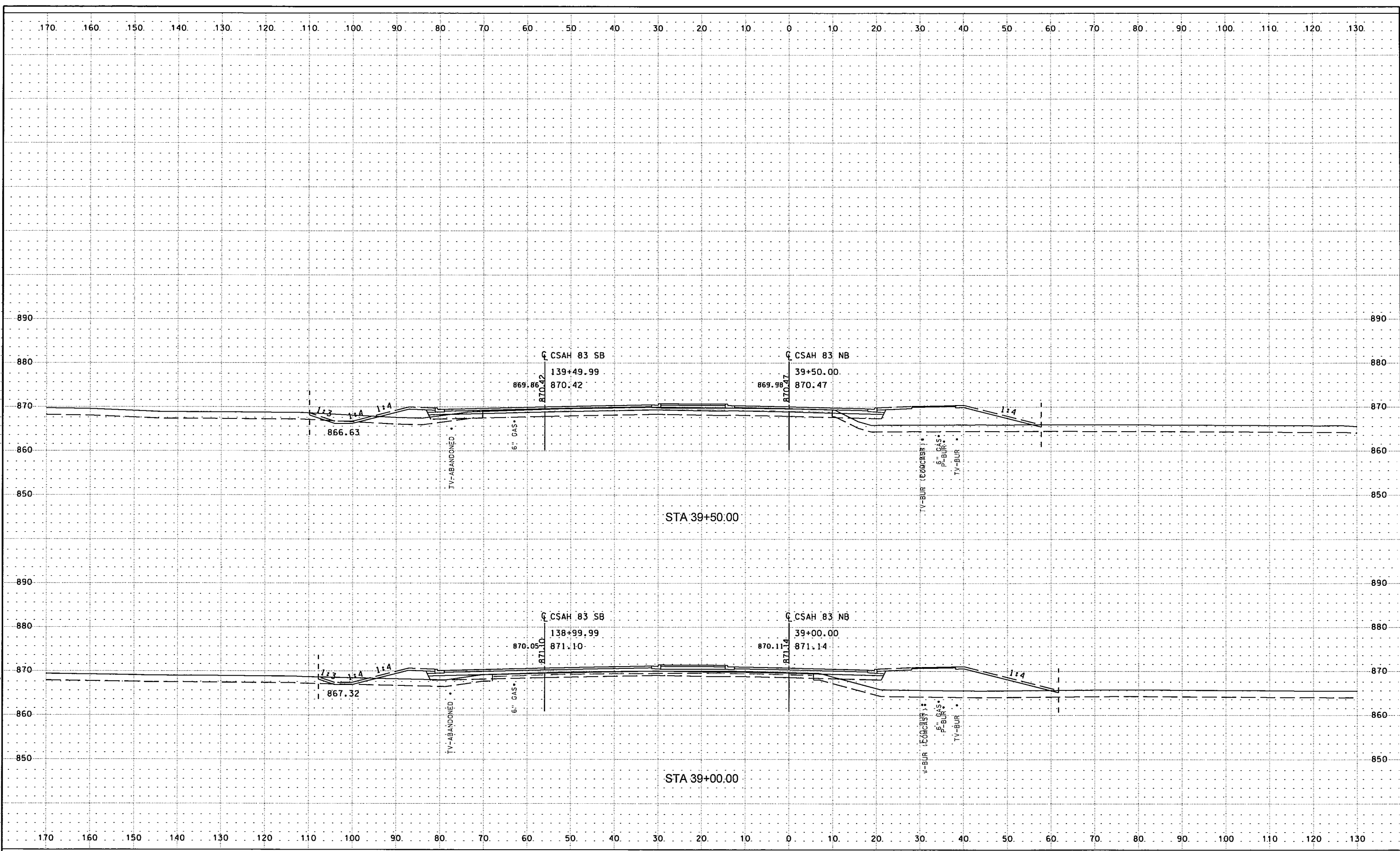
NO.	DATE	BY	CHK	REVISIONS
1	08/06/12	MEH	AJP	EAST SIDE BLVD AND TRAIL REVISED


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City of RAMSEY
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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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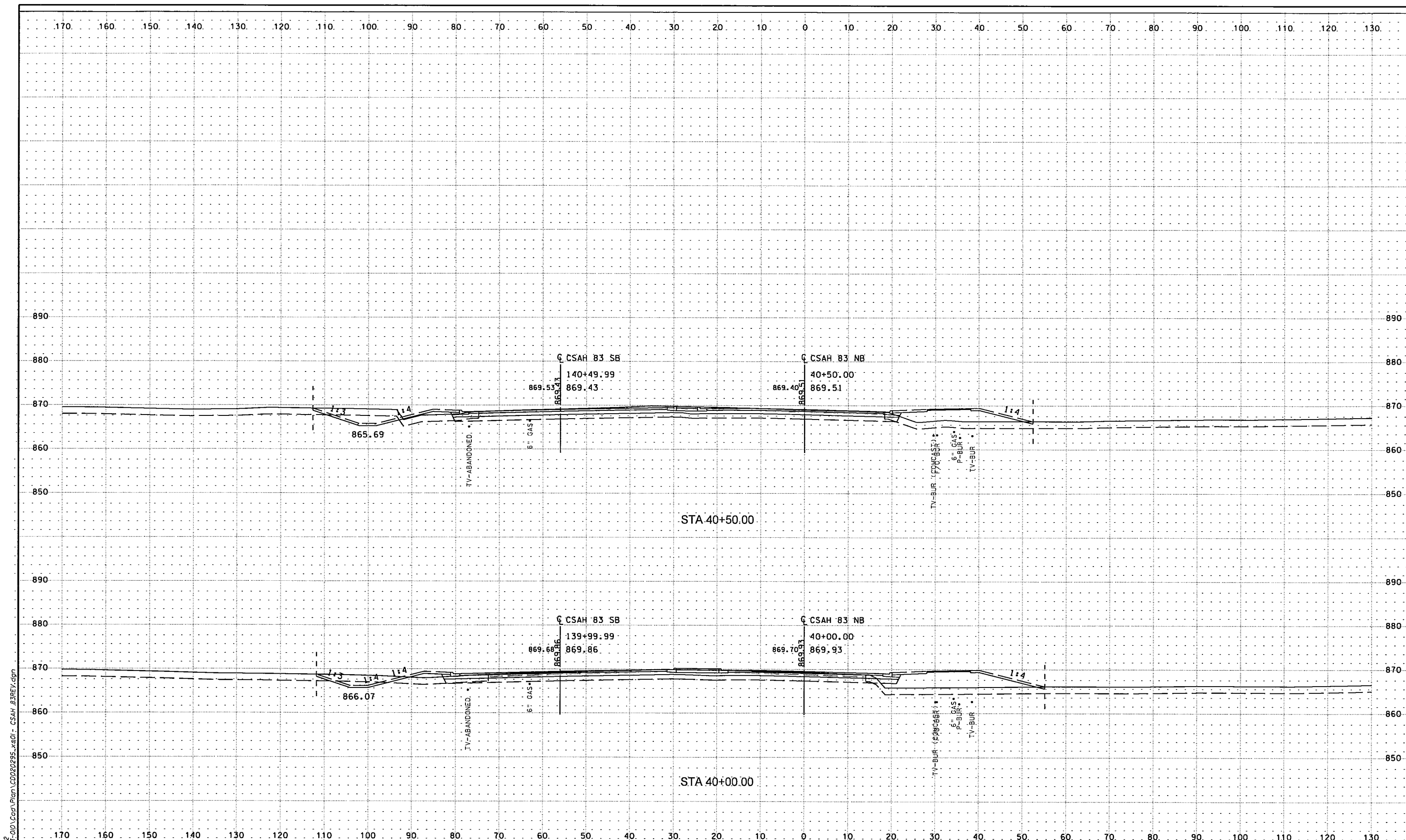
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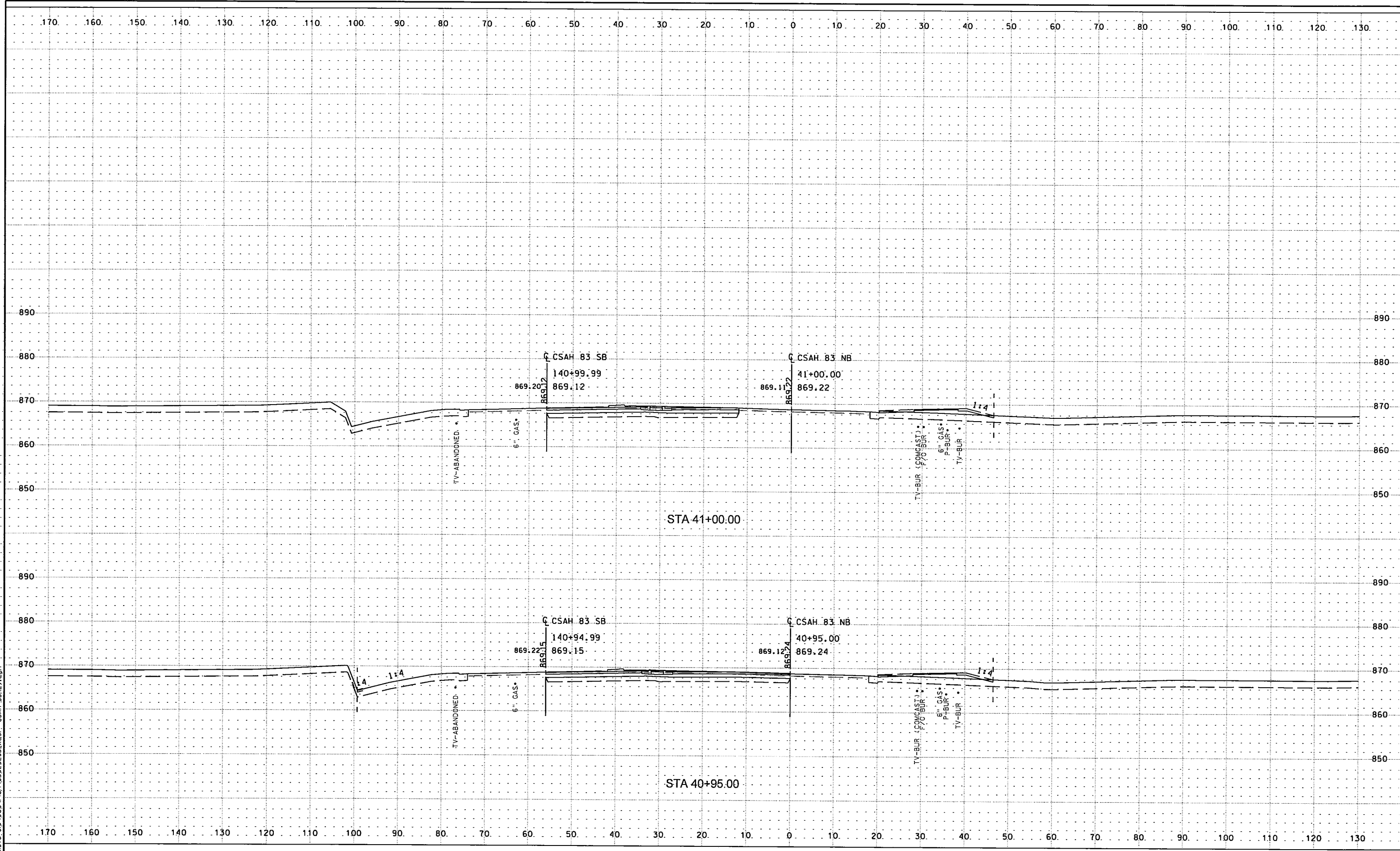
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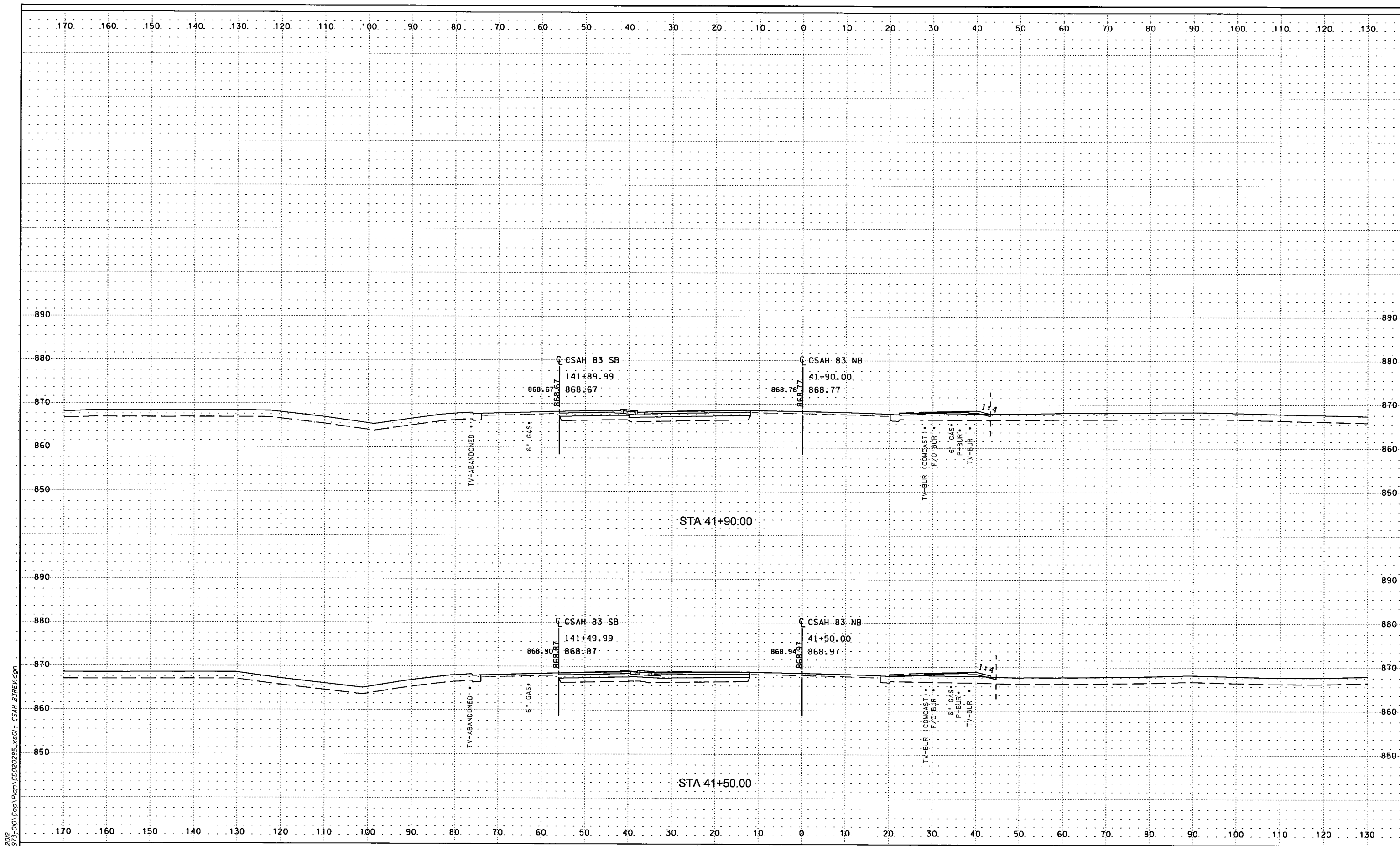
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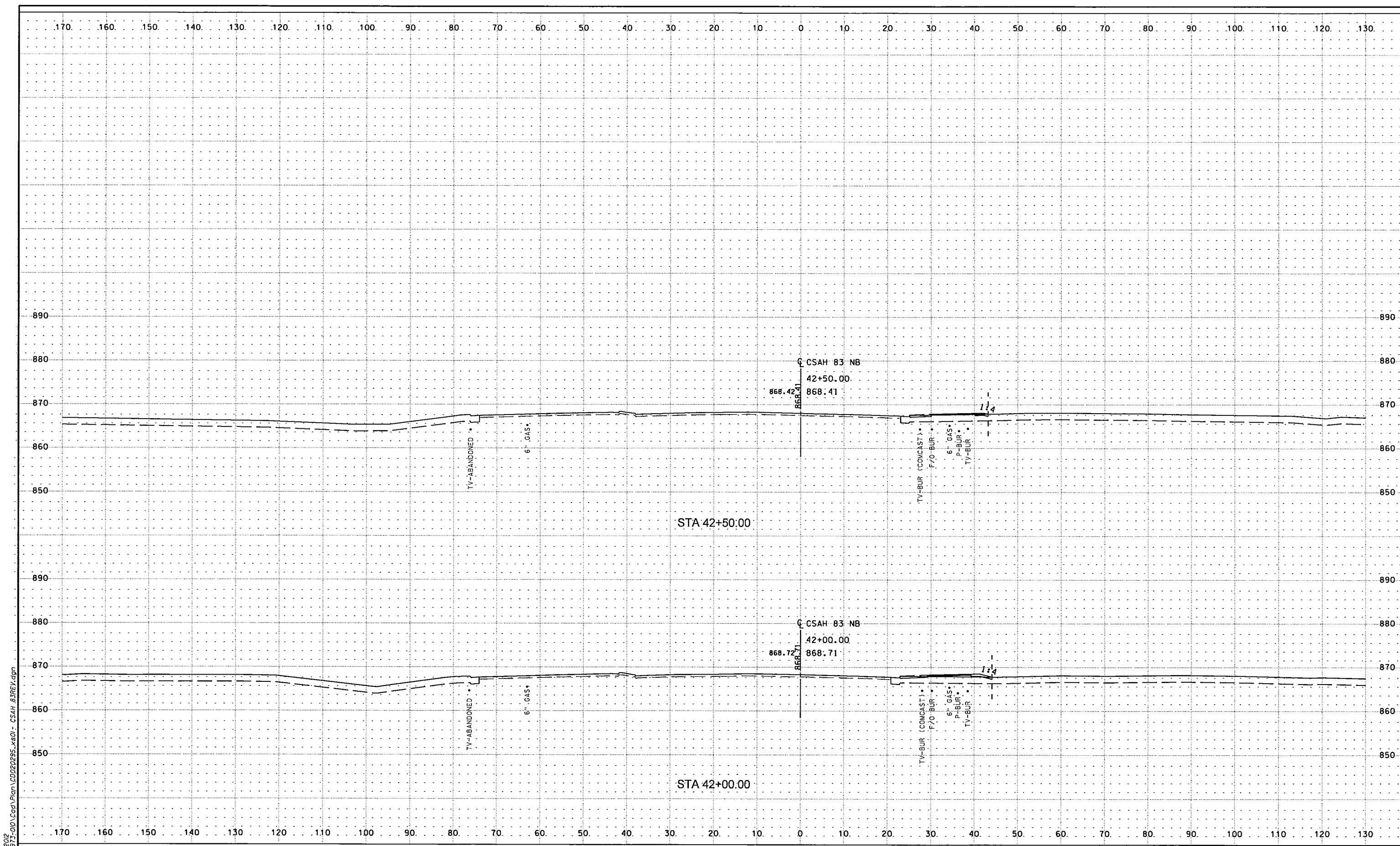
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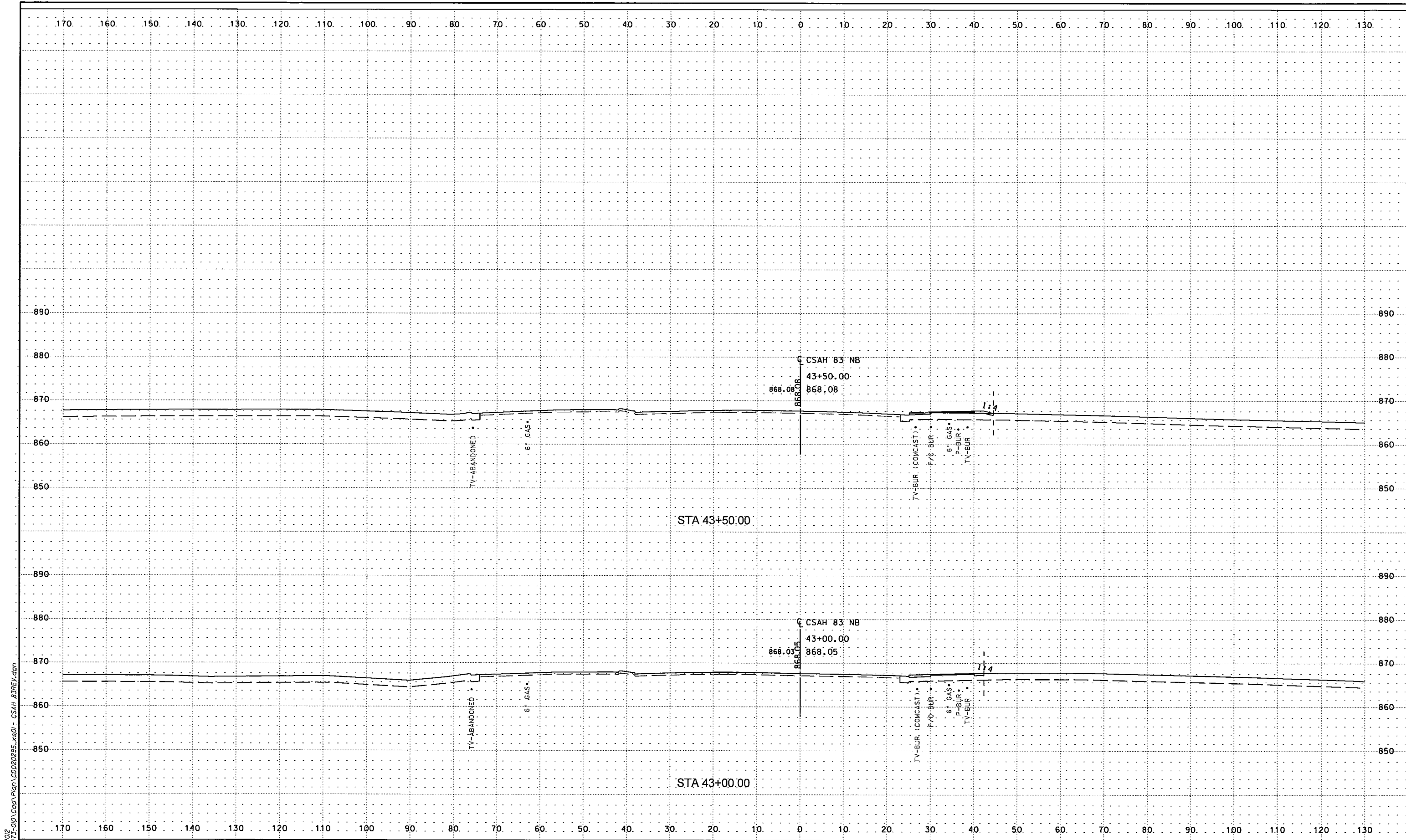
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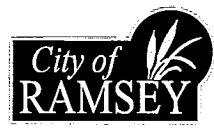
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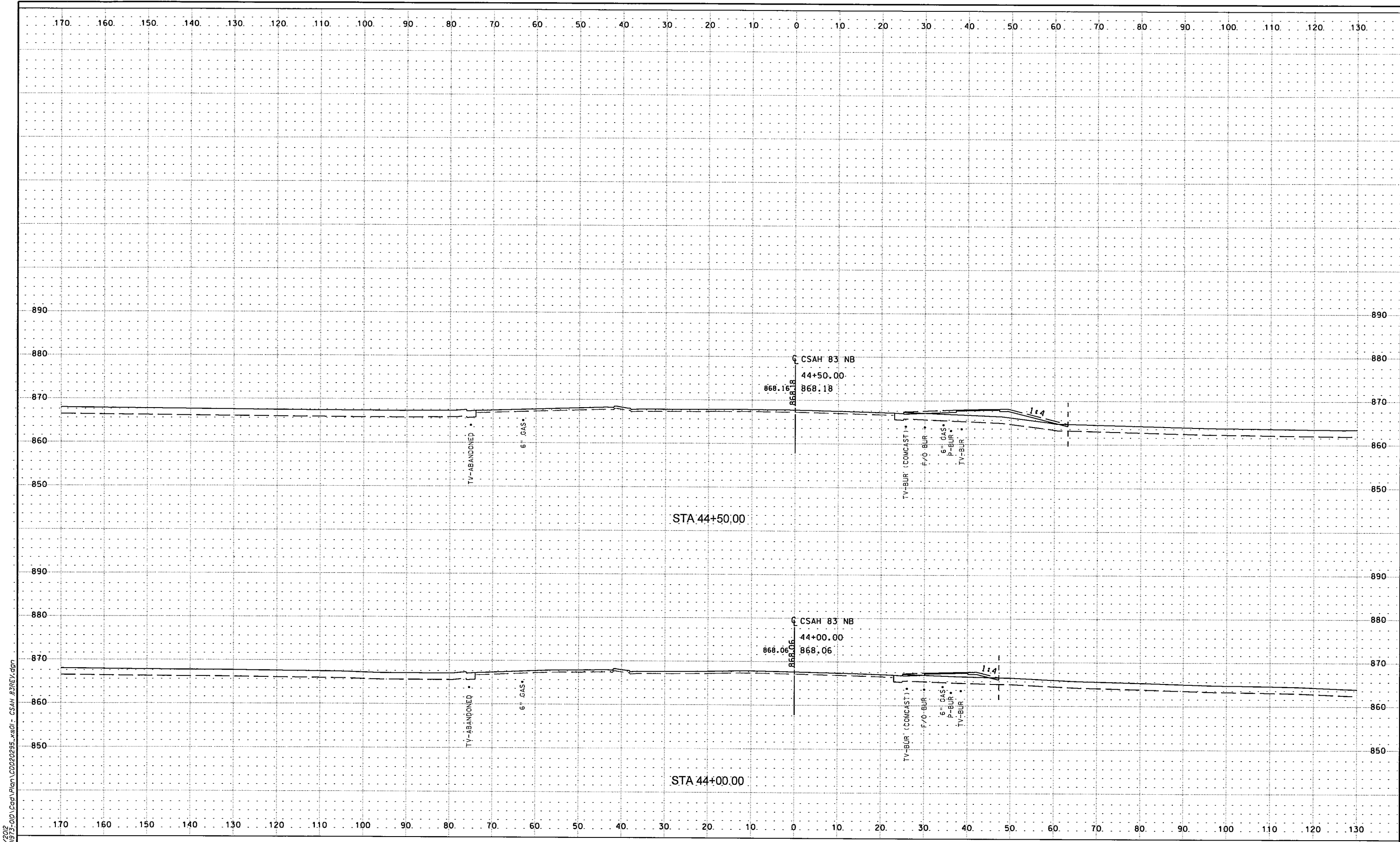
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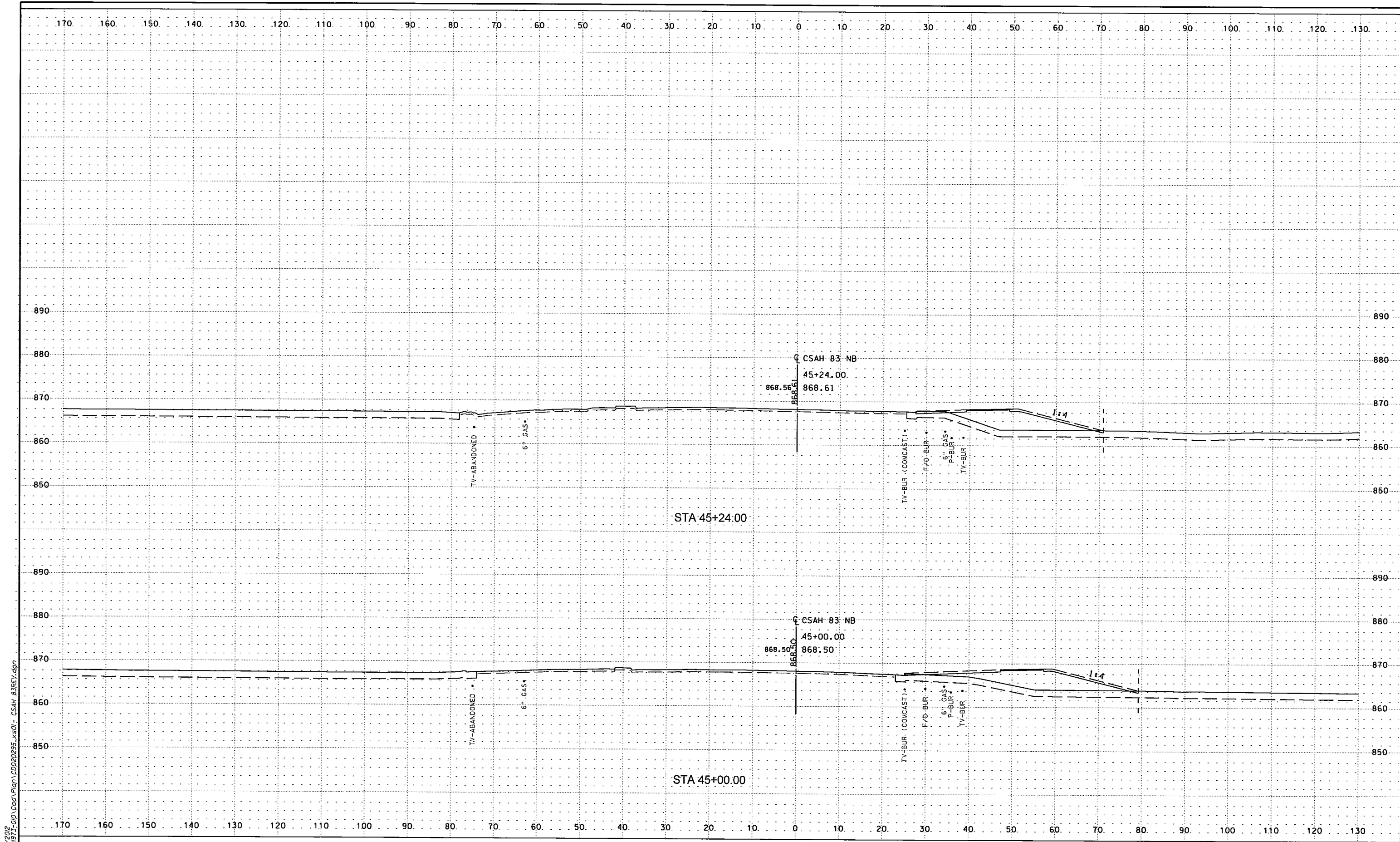
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