

END PROJECT
STA. 898+00.00
SLM - 17.00

BEGIN PROJECT
STA. 536+50.00
SLM - 10.13

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

SCI-823-10.13

MADISON & JEFFERSON TOWNSHIPS
SCIOTO COUNTY

PROJECT DESCRIPTION

CONSTRUCTION OF 6.88 MILES OF FOUR LANE LIMITED ACCESS HIGHWAY (SR823) FROM NORTH OF CR28 INTERCHANGE TO THE US23 INTERCHANGE; INTERCHANGES AT CR28 (LUCASVILLE-MINFORD ROAD); SR823 BRIDGES OVER CR28 (LUCASVILLE-MINFORD ROAD), CR29 (BLUE RUN ROAD), CR54 (MORRIS LANE BLUE RUN ROAD), AND SR823 UNDER CR184 (FLATWOOD-FALLEN TIMBER ROAD) AND FOLLOWING BRIDGES AT US23 INTERCHANGE:
US 23 RAMP B BRIDGE OVER CR 55
US 23 RAMP B BRIDGE OVER NORFOLK SOUTHER RR
US 23 RAMP C BRIDGE OVER CR 55
US 23 RAMP C BRIDGE OVER NORFOLK SOUTHERN RR
SR 823 BRIDGE OVER CR 55
SR 823 BRIDGE OVER NORFOLK SOUTHERN RR
SR 823 BRIDGE OVER US 23

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2005 SPECIFICATIONS

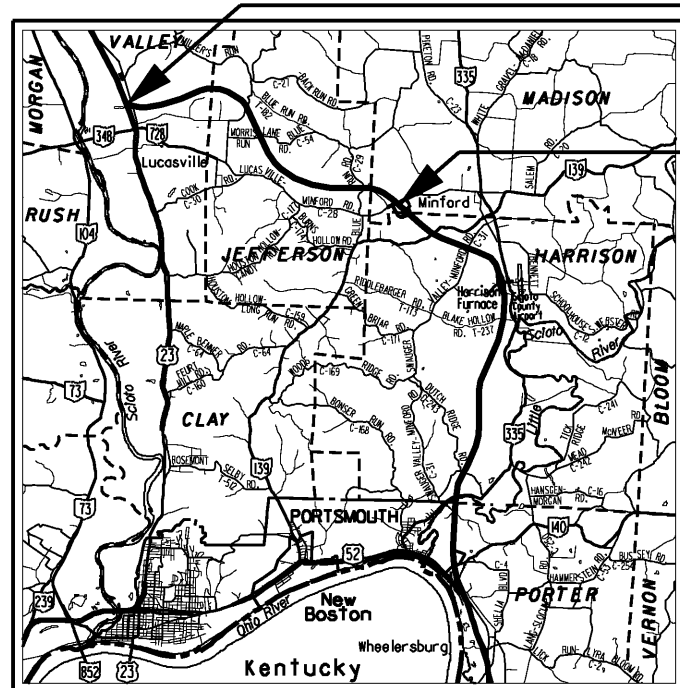
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC THE HIGHWAY AND THAT THE PROVISIONS FOR MAINTENANCE AND SAFETY OF TRAFFIC WILL BE SET FORTH ON THE PLANS AND ESTIMATES

UNDER AUTHORITY OF SECTION 4511.21, DIVISION (I) OF THE OHIO REVISED CODE, THE REVISED PRIMA FACIE SPEED LIMITS AS INDICATED HEREIN ARE DETERMINED TO BE REASONABLE AND SAFE, AND ARE HEREBY ESTABLISHED FOR THE DURATION OF THIS PROJECT. THE PRIMA FACIE SPEED LIMIT OR LIMITS HEREBY ESTABLISHED SHALL BECOME EFFECTIVE WHEN APPROPRIATE SIGNS GIVING NOTICE THEREOF ARE ERECTED.

APPROVED _____
DATE _____ DISTRICT DEPUTY DIRECTOR

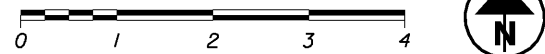
APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION



LOCATION MAP

LATITUDE: N 38°50'25" LONGITUDE: W 82°50'50"

SCALE IN MILES



PORTION TO BE IMPROVED	—————
INTERSTATE & DIVIDED HIGHWAY	=====
UNDIVIDED STATE & FEDERAL ROUTES	—————
OTHER ROADS	—————

DESIGN DESIGNATION
(SEE SHEET 2)

DESIGN EXCEPTIONS
(SEE SHEET 2)

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA	= XX.XX ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	= XX.XX ACRES
NOTICE OF INTENT EARTH DISTURBED AREA	= XXX.XX ACRES

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

PLAN PREPARED BY:



5747 Perimeter Drive, Suite 240
Dublin, OH 43068
Main: 614-336-8480 | Fax: 614-336-8640
www.transystems.com

ENGINEERS SEAL:

SIGNED: _____
DATE: _____

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STAGE 1 SUBMISSION

10/30/24 4B AM 2/25/2008 g:\c003\0064\Reced\PHASE 2\19977\td\19977.dwg

FEDERAL PROJECT NO.

PID NO.

79977

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT

NS

SCI-823-10.13



DESIGN EXCEPTIONS

DESIGN FEATURE	APPROVAL DATE	SHEET NO.
HORIZONTAL STOPPING SIGHT DISTANCE (DC - 2°) PROVIDED 663 FT (NDC - 730 FT)		41, 43
FLATWOOD-FALLEN TIMBER RD. ROAD DESIGN SPEED PROVIDED 25 MPH (NDC - 55 MPH)		636, 638
US23 INTERCHANGE RAMP B DESIGN SPEED PROVIDED 35 MPH (NDC - 45 MPH)		105
US23 INTERCHANGE RAMP C DESIGN SPEED PROVIDED 40 MPH (NDC - 45 MPH)		109, III

DESIGN DESIGNATION SR823 (TR234 INTERCHANGE TO US23 INTERCHANGE)

CURRENT ADT (2010)	19,800
DESIGN YEAR ADT (2030)	26,000
DESIGN HOURLY VOLUME (2030)	2600
DIRECTIONAL DISTRIBUTION	55%
TRUCKS (24 HOUR B&C)	14%
T_D	7%
DESIGN SPEED	70 MPH
LEGAL SPEED	65 MPH
DESIGN FUNCTIONAL CLASSIFICATION	RURAL PRINCIPAL ARTERIAL

DESIGN DESIGNATION US23

CURRENT ADT (2010)	16,200
DESIGN YEAR ADT (2030)	23,400
DESIGN HOURLY VOLUME (2030)	2100
DIRECTIONAL DISTRIBUTION	55%
TRUCKS (24 HOUR B&C)	14%
T_D	7%
DESIGN SPEED	60 MPH
LEGAL SPEED	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION	RURAL PRINCIPAL ARTERIAL

DESIGN DESIGNATION FLATWOOD-FALLEN TIMBERS ROAD (CR184)

CURRENT ADT (2010)	N/A
DESIGN YEAR ADT (2030)	N/A
DESIGN HOURLY VOLUME (2030)	N/A
DIRECTIONAL DISTRIBUTION	N/A
TRUCKS (24 HOUR B&C)	N/A
DESIGN SPEED	25 MPH
LEGAL SPEED	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION	RURAL LOCAL ROAD

STANDARD CONSTRUCTION DRAWINGS	SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS

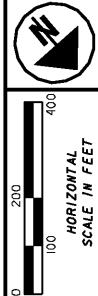
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DESIGN DESIGNATION

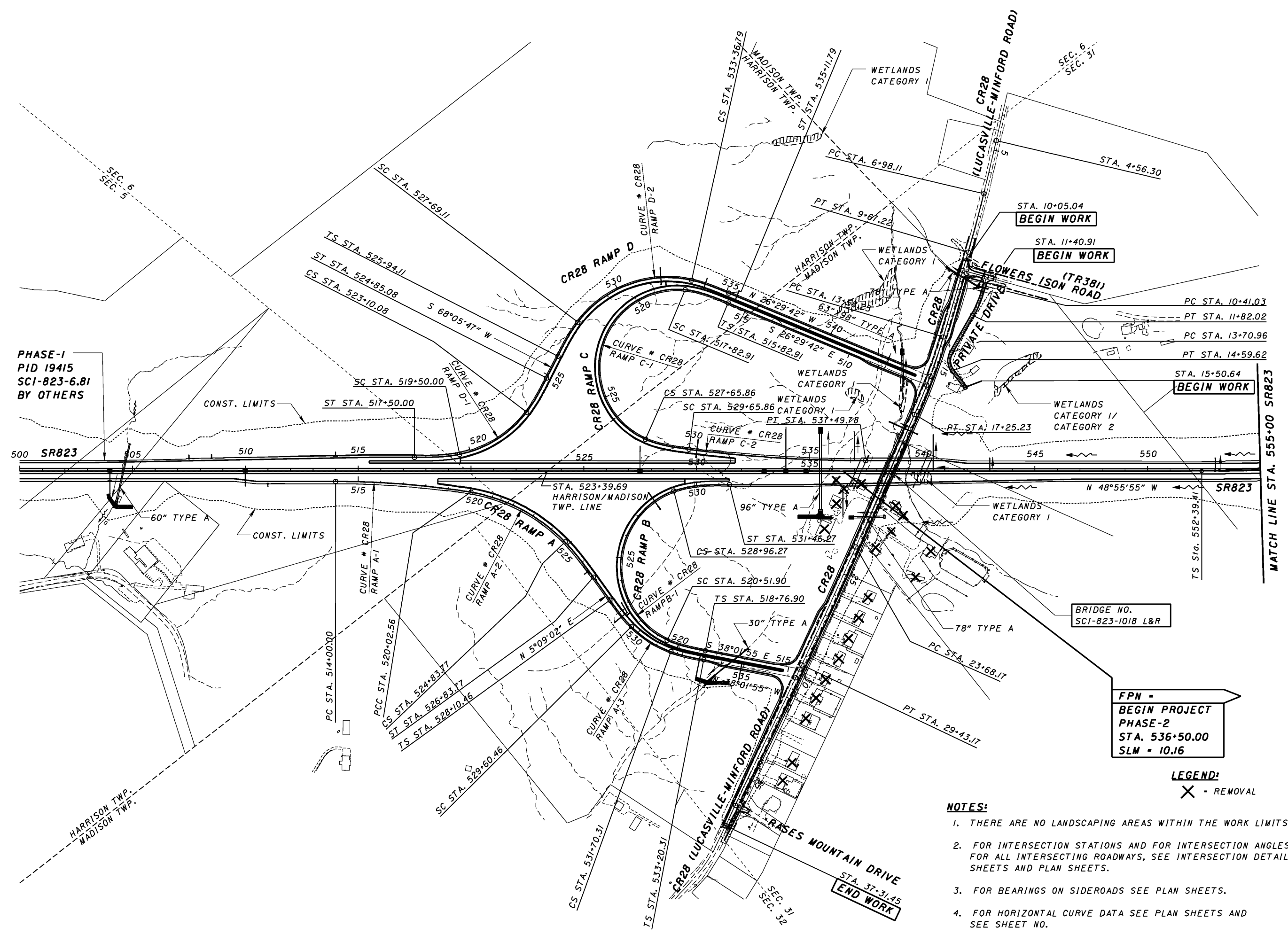
SCI-823-10.13

2



SCHEMATIC PLAN - SR823
STA. 500+00.00 TO STA. 555+00.00

SCI-823-10.13



PHASE-1
PID 19415
SCI-823-6.81
BY OTHERS

SR823

MATCH LINE STA. 555+00 SR823

FPN -
BEGIN PROJECT
PHASE-2
STA. 536+50.00
SLM = 10.16

LEGEND:
X - REMOVAL

NOTES:

1. THERE ARE NO LANDSCAPING AREAS WITHIN THE WORK LIMITS.
2. FOR INTERSECTION STATIONS AND FOR INTERSECTION ANGLES FOR ALL INTERSECTING ROADWAYS, SEE INTERSECTION DETAIL SHEETS AND PLAN SHEETS.
3. FOR BEARINGS ON SIDEROADS SEE PLAN SHEETS.
4. FOR HORIZONTAL CURVE DATA SEE PLAN SHEETS AND SEE SHEET NO.

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SEC. 6
SEC. 31

MADISON TWP.
JEFFERSON TWP.

WETLANDS
CATEGORY 1

WETLANDS
CATEGORY 1

WETLANDS
CATEGORY 1/
CATEGORY 2

WETLANDS
CATEGORY 2

WETLANDS
CATEGORY 1

WETLANDS
CATEGORY 1

72" TYPE A

BRIDGE NO.
SCI-823-1096 L&R

MATCH LINE STA. 555+00 SR823
SC STA. 556+39.41
CURVE #8
SR823
560
565
570

STA. 571+93.62
MADISON/JEFFERSON
TWP. LINE

WETLANDS
CATEGORY 1

CS STA. 573+04.42

ST STA. 577+04.42

BLUE RUN ROAD (CR29)

WETLANDS
CATEGORY 1

585

590

595

600

605

S 89° 46' 05" W

MATCH LINE STA. 610+00 SR823

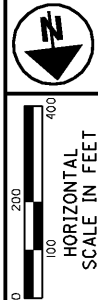
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NOTES:

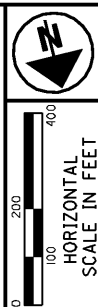
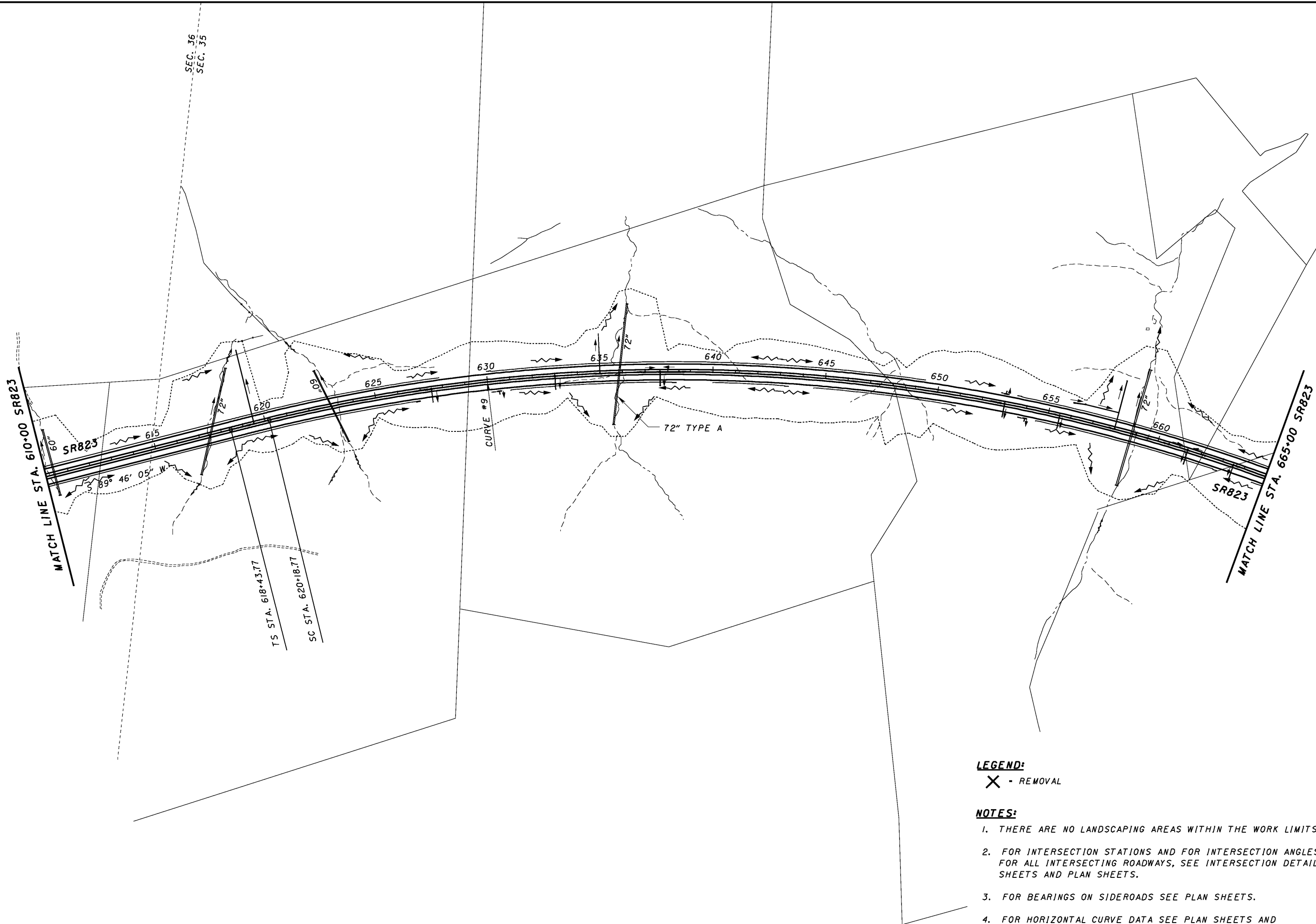
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WETLANDS
CATEGORY 1/
CATEGORY 2



SCHEMATIC PLAN - SR823
STA. 555+00.00 TO STA. 610+00.00

SCI-823-10.13



SCHEMATIC PLAN - SR823
STA. 610+00.00 TO STA. 665+00.00

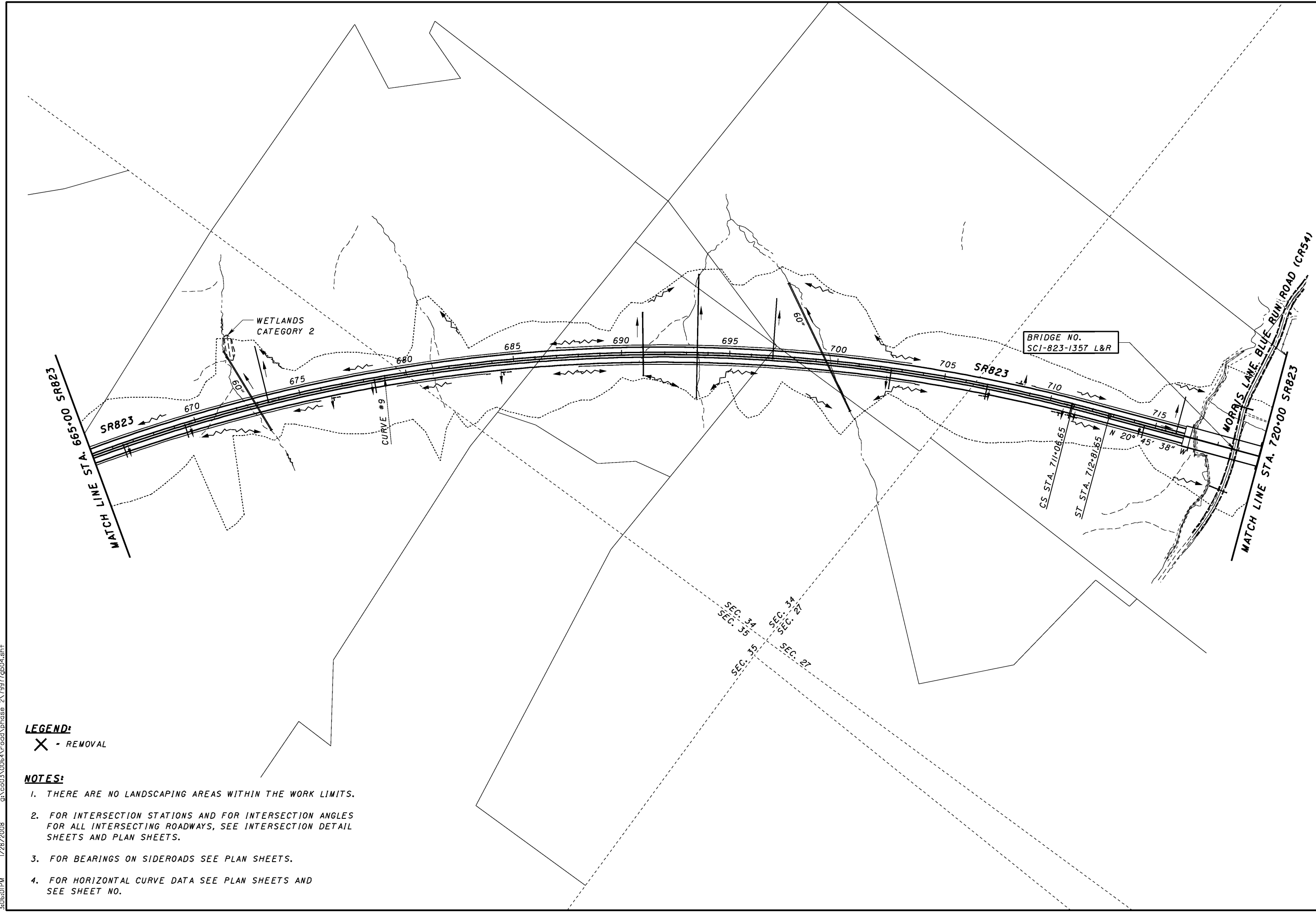
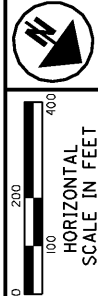
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LEGEND:

X - REMOVAL

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SCHEMATIC PLAN - SR823
STA. 665+00.00 TO STA. 720+00.00

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LEGEND:

X - REMOVAL

NOTES:

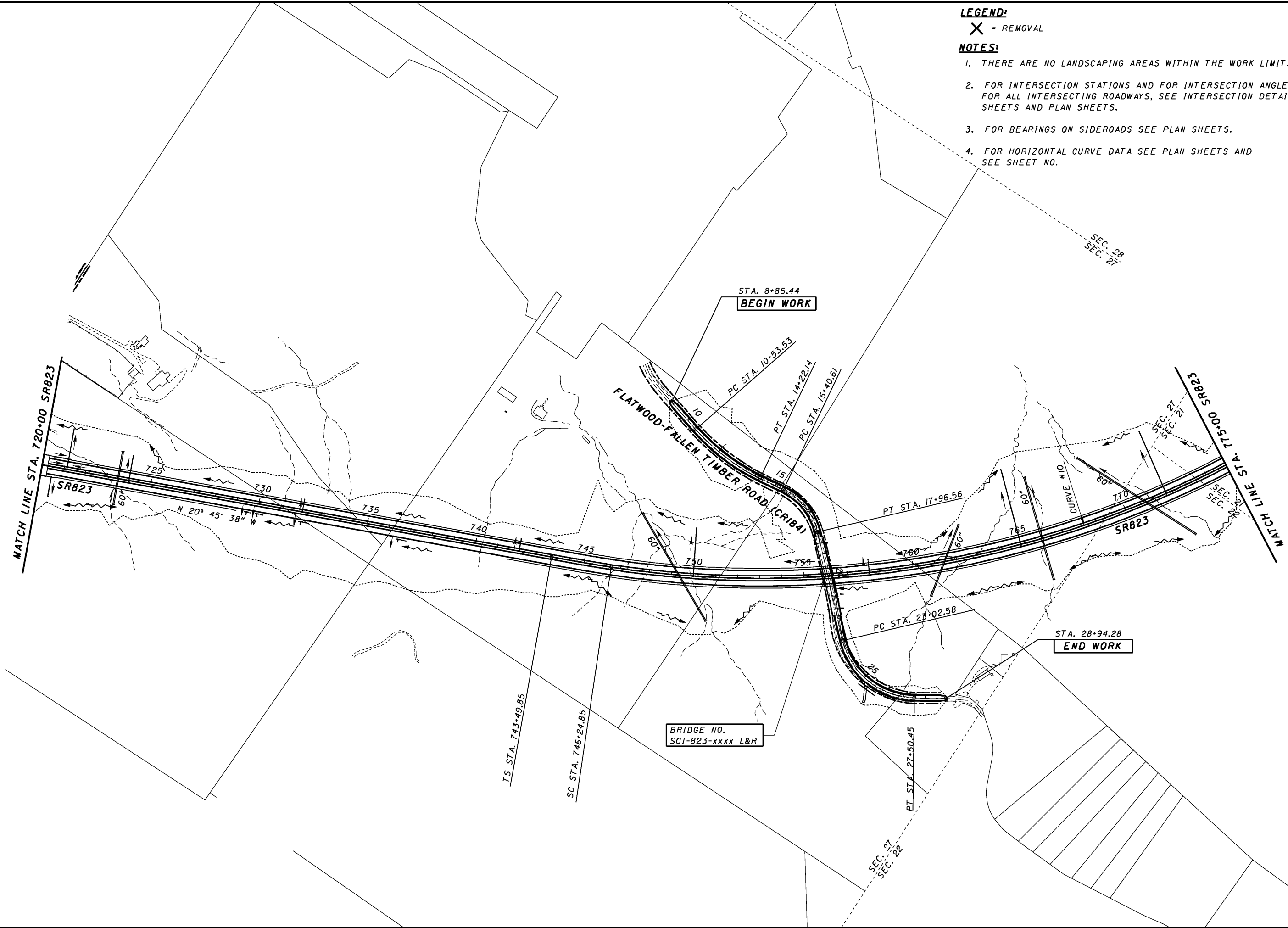
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**SCHEMATIC PLAN - SR823
STA. 720+00.00 TO STA. 775+00.00**

SCI-823-10.13

7



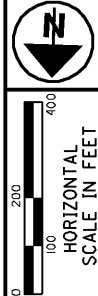


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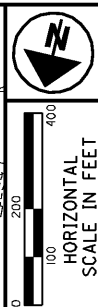
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SCHEMATIC PLAN - SR823
STA. 775+00.00 TO STA. 830+00.00

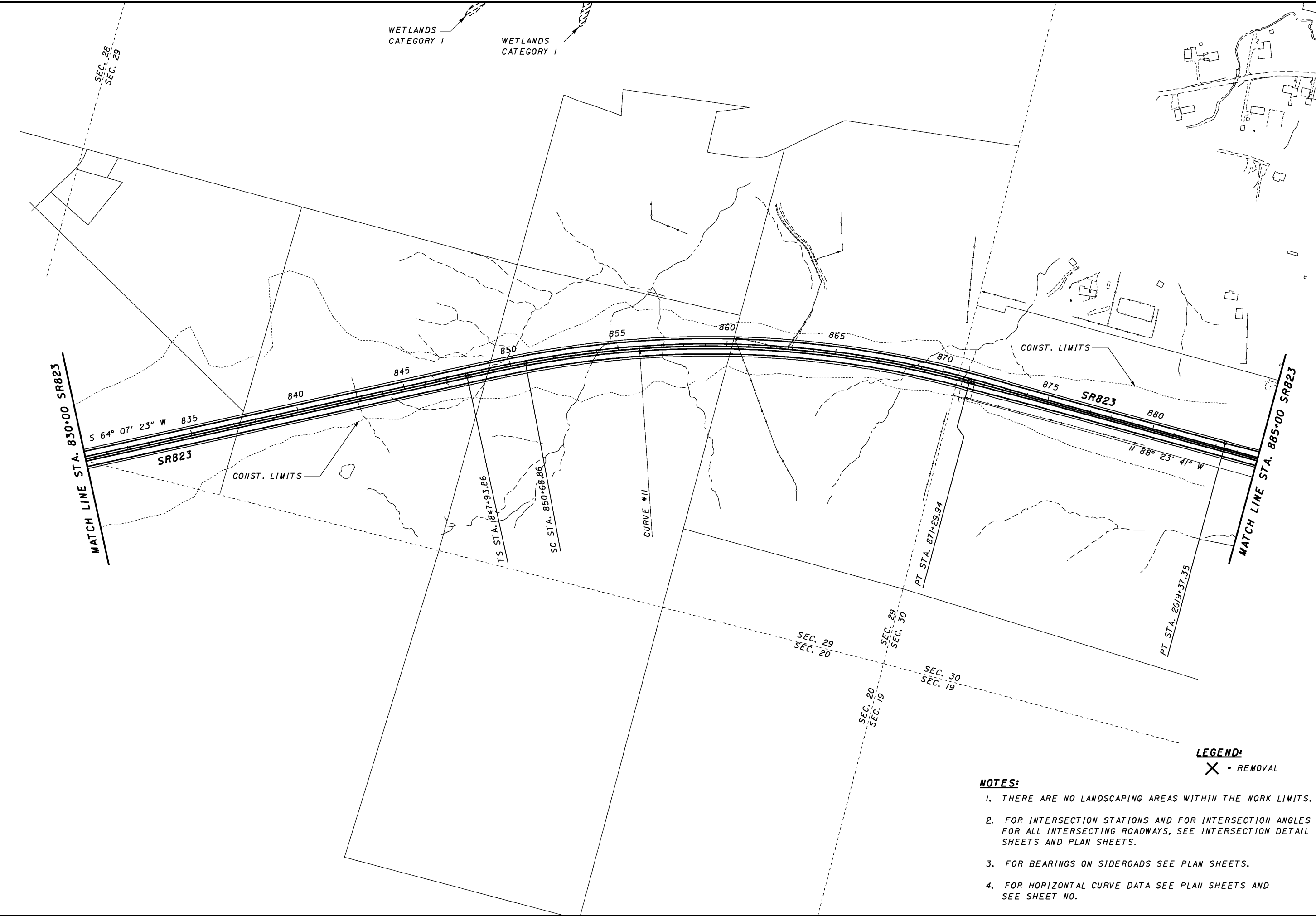
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SCHEMATIC PLAN - SR823
STA. 830+00.00 TO STA. 885+00.00

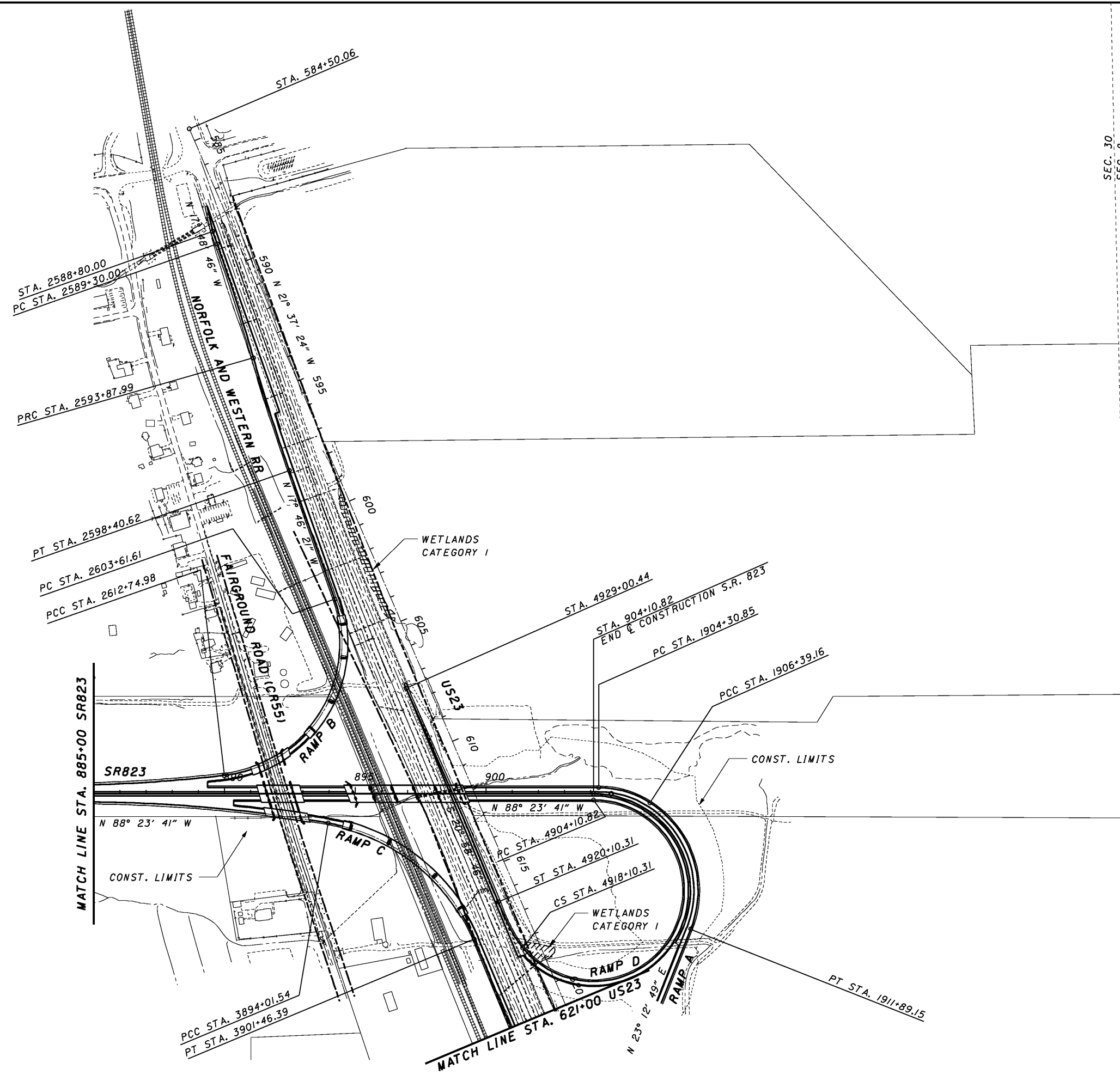
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LEGEND:
X - REMOVAL

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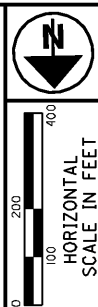


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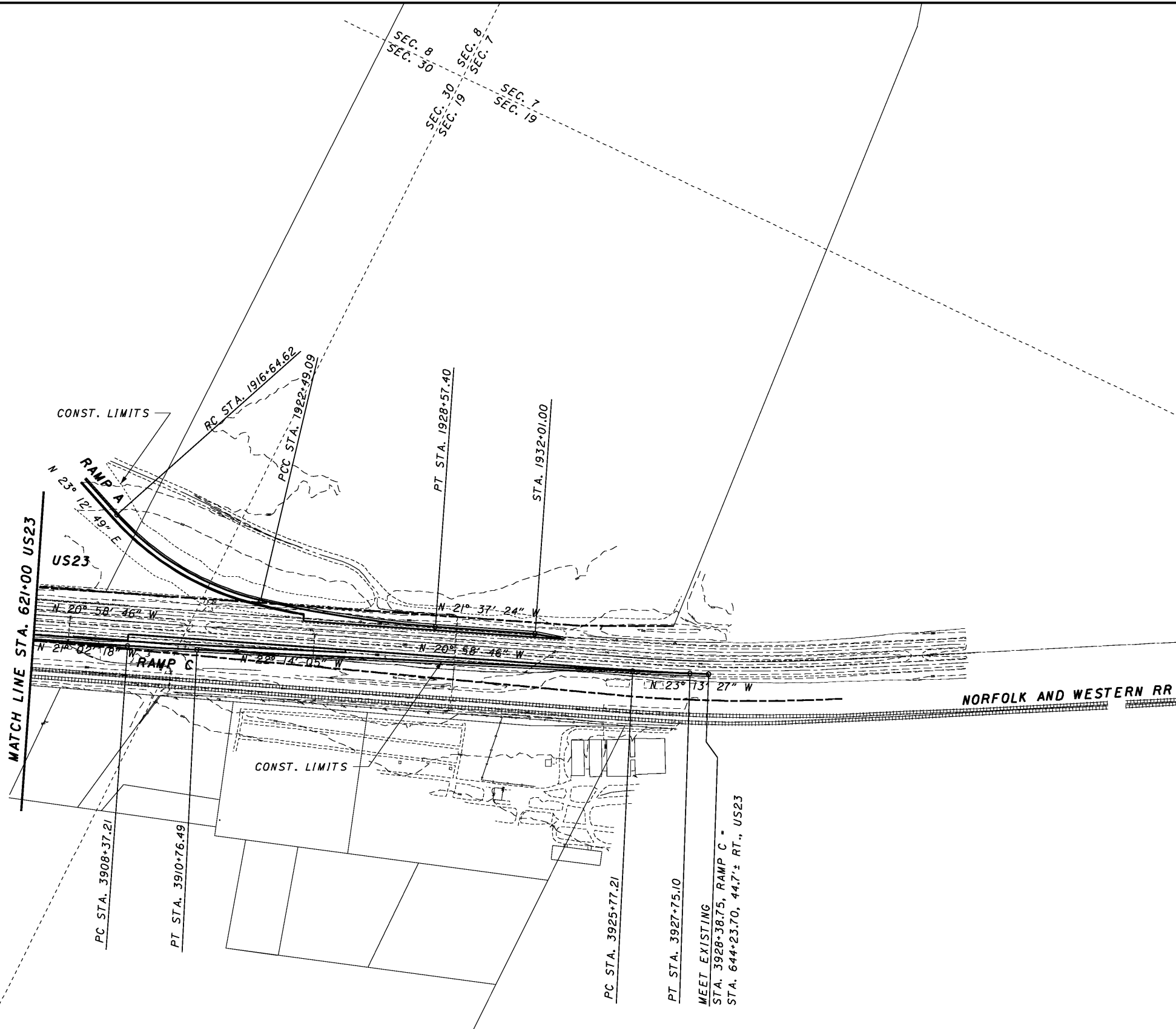
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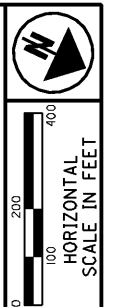
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STA. 885+00.00 TO STA. 904+79.54

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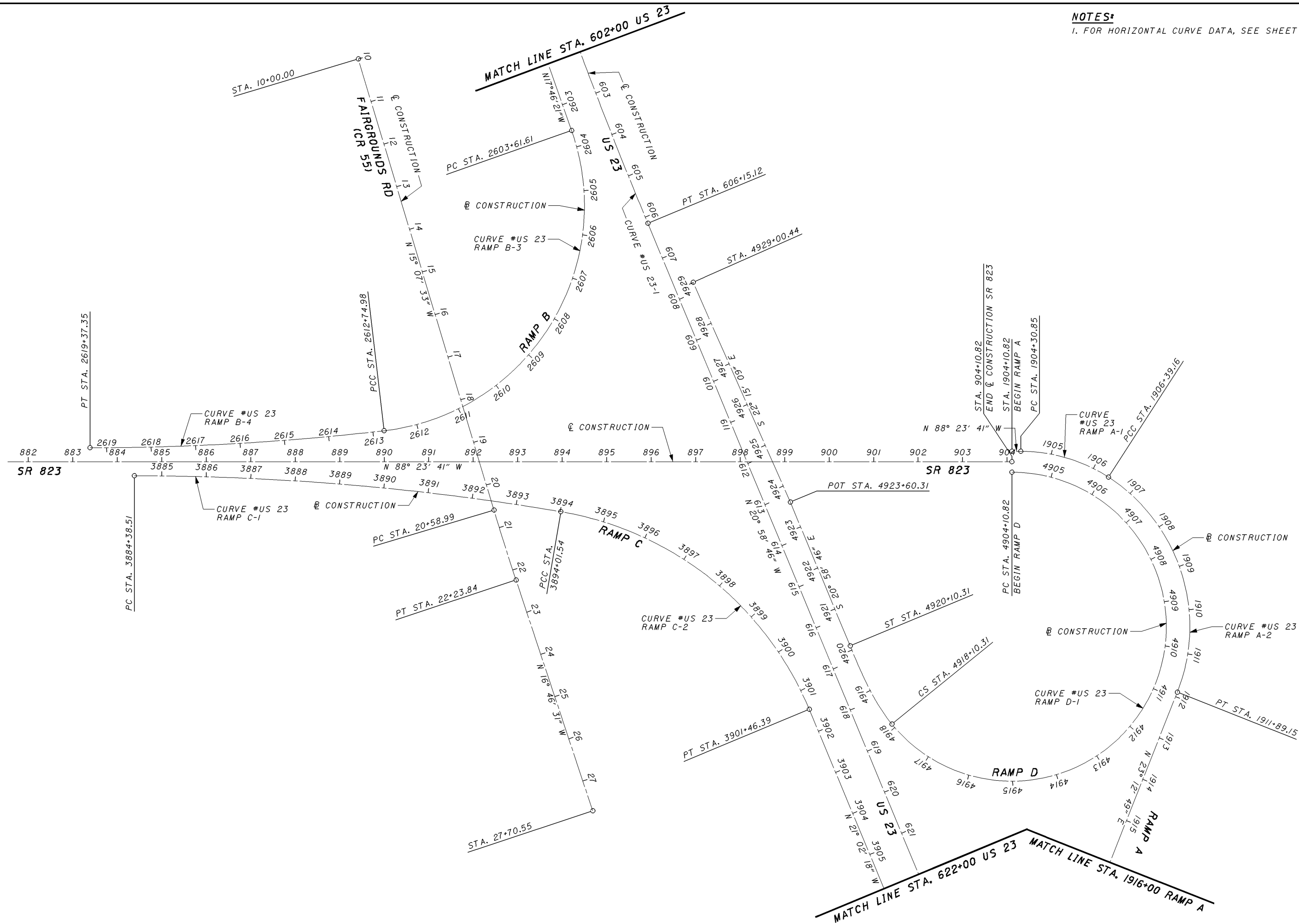
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SCHEMATIC PLAN - US23
STA. 621+00.00 TO STA. 660+00.00

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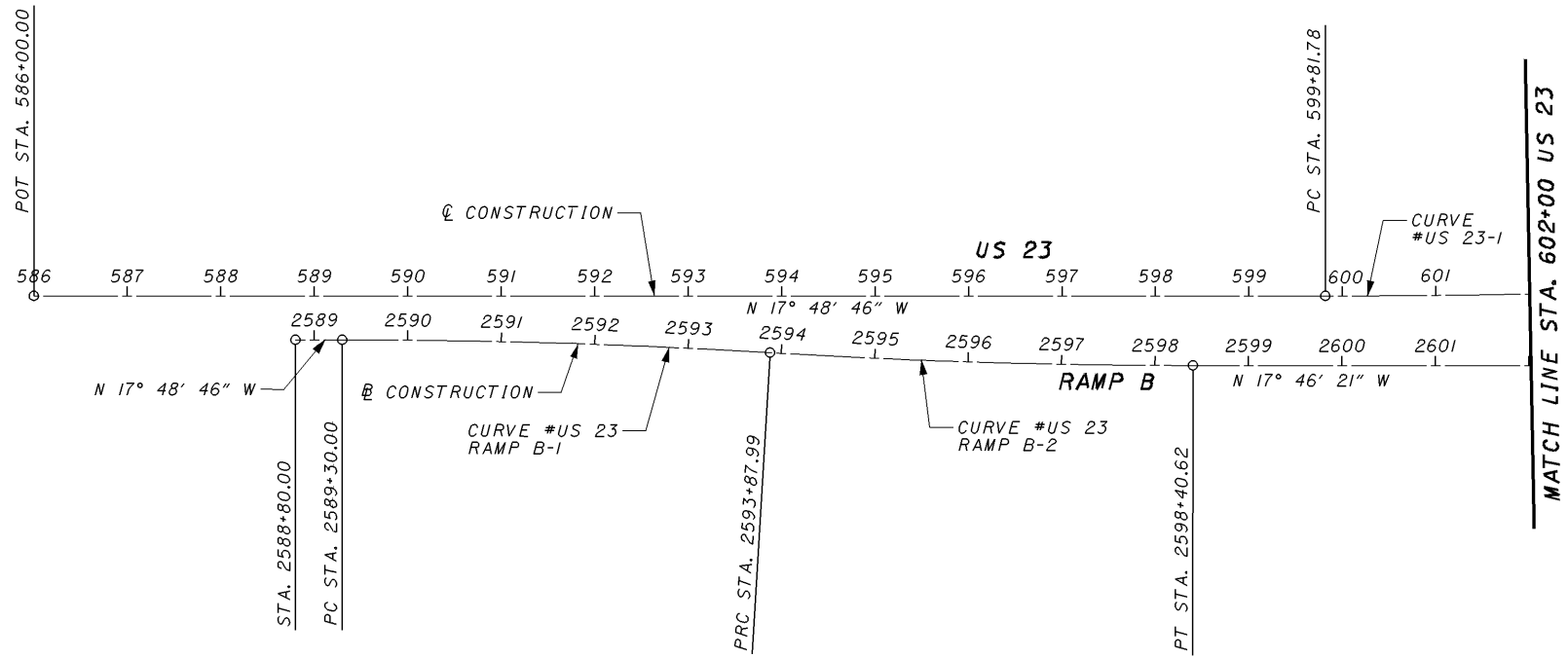
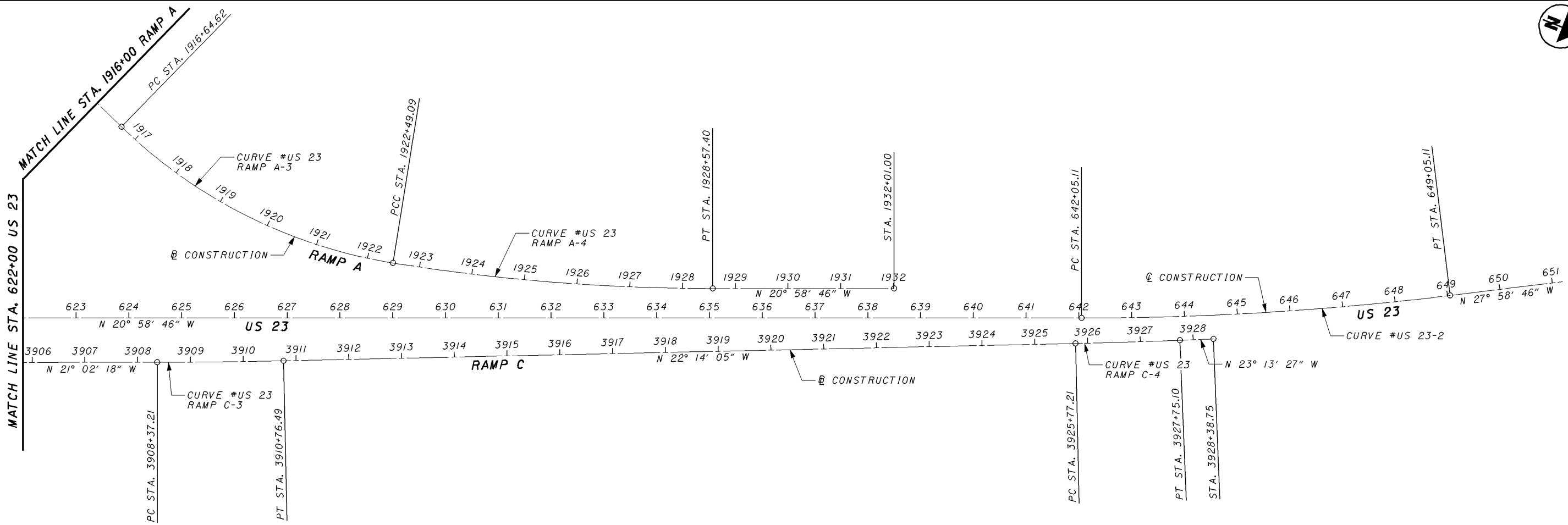
NOTES*
1. FOR HORIZONTAL CURVE DATA, SEE SHEET XX.

CALCULATED	
MME	CHECKED
ADW	

**GEOMETRIC LAYOUT
SR 823 AND US 23 INTERCHANGE**

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NOTES:
1. FOR HORIZONTAL CURVE DATA, SEE SHEET XX.



CALCULATED	MME	CHECKED	ADW

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HORIZONTAL SCALE IN FEET

**GEOMETRIC LAYOUT
SR 823 AND US 23 INTERCHANGE**



SCI-823-10.13

HORIZONTAL CURVE DATA

ALIGNMENT	CURVE NO.	P.I. STATION	P.I. COORDINATES		P.I. C _{CI} STATION	P.I. C _{CI} COORDINATES		Δ	Δ OR Δ _{CI}	D _C	R OR R _{CI}	L _S OR L _{SI}	θ _S OR θ _{SI}	LT OR LT ₁	ST OR ST ₁	L _{S2}	θ _{S2}	LT ₂	ST ₂
			NORTH	EAST		NORTH	EAST												
SR823	CURVE #8	565+19.92	316,467.02	1,853,755.86	564+96.17	316,397.84	1,853,730.10	41°18'00.83" LT.	33°18'00.83" LT.	2°00'00.0"	2,864.79	400.00	4°00'00.0" LT.	266.73	133.40				
	CURVE #9	672+28.25	316,423.26	1,842,951.61	671+87.08	316,483.29	1,842,992.87	69°28'17.76" RT.	68°09'32.76" RT.	0°45'00.0"	7,639.44	175.00	0°39'22.5" RT.	116.67	58.33				
	CURVE #10	795+00.50	329,143.32	1,838,129.75	793+44.83	328,944.60	1,838,050.74	95°06'59.15" LT.	91°40'44.15" LT.	1°15'00.0"	4,583.66	275.00	1°43'07.5" LT.	183.34	91.67				
	CURVE #11	860+50.90	325,229.60	1,830,061.49	861+17.13	325,231.68	1,829,987.42	27°28'56.22" RT.	25°45'48.72" RT.	1°15'00.0"	4,583.66	275.00	1°43'07.5" RT.	183.34	91.67				
US23	CURVE #1	602+98.53	324,498.50	1,826,576.05				3°10'00.00" LT.		0°30'00.0"	11,459.16								
	CURVE #2	645+55.55	328,473.47	1,825,051.84				7°00'00.00" LT.		1°00'00.0"	5,729.58								
	CURVE #3	707+99.68	333,988.53	1,822,121.98				6°00'00.00" LT.		1°00'00.0"	5,729.58								
US23 RAMP A	CURVE #1	1905+37.96	325,333.03	1,825,532.24				32°51'27.57" RT.		15°46'23.6"	363.25								
	CURVE #2	1909+67.56	325,579.48	1,825,173.17				78°45'02.34" RT.		14°19'06.7"	400.15								
	CURVE #3	1919+66.34	326,595.55	1,825,608.94				35°04'06.07" LT.		6°00'00.0"	954.93								
	CURVE #4	1925+53.89	327,189.13	1,825,484.35				9°07'28.73" LT.		1°30'00.0"	3,819.72								
US23 RAMP B	CURVE #1	2591+59.06	323,428.04	1,826,969.37				3°26'05.73" RT.		0°45'00.0"	7,639.44								
	CURVE #2	2596+14.37	323,869.22	1,826,856.27				3°23'41.00" LT.		0°45'00.0"	7,639.44								
	CURVE #3	2609+99.07	325,187.95	1,826,433.57				102°45'15.07" RT.		11°15'00.0"	509.30								
	CURVE #4	2616+06.53	325,272.72	1,827,398.87				6°37'25.33" RT.		1°00'00.0"	5,729.58								
US23 RAMP C	CURVE #1	3889+21.16	325,342.72	1,827,149.94				9°37'49.05" RT.		1°00'00.0"	5,729.58								
	CURVE #2	3898+09.03	325,516.16	1,826,276.86				57°43'33.55" RT.		7°45'00.0"	739.30								
	CURVE #3	3909+56.85	326,652.93	1,825,839.62				1°11'47.00" LT.		0°30'00.0"	11,459.16								
	CURVE #4	3926+76.16	328,244.39	1,825,189.03				0°59'22.00" LT.		0°30'00.0"	11,459.16								
US23 RAMP D	CURVE #1				4911+40.23	325,356.02	1,826,389.76	247°24'54.87" RT.	230°54'54.87" RT.	16°30'00.0"	347.25	200.00	16°30'00.0" RT.	133.92	67.20				
CR184	CURVE #1	12+40.36	324,767.71	1,839,179.17				23°02'18.00" LT.		6°15'00.0"	916.73								
	CURVE #2	16+77.84	325,208.30	1,839,137.85				51°11'18.00" RT.		20°00'00.0"	286.48								
	CURVE #3	25+66.55	325,840.44	1,839,788.58				76°08'20.00" LT.		17°00'00.0"	337.03								
CR55	CURVE #1	21+41.42	325,508.58	1,826,804.97				1°38'57.96" LT.		1°00'01.9"	5,726.58								

HORIZONTAL CURVE DATA

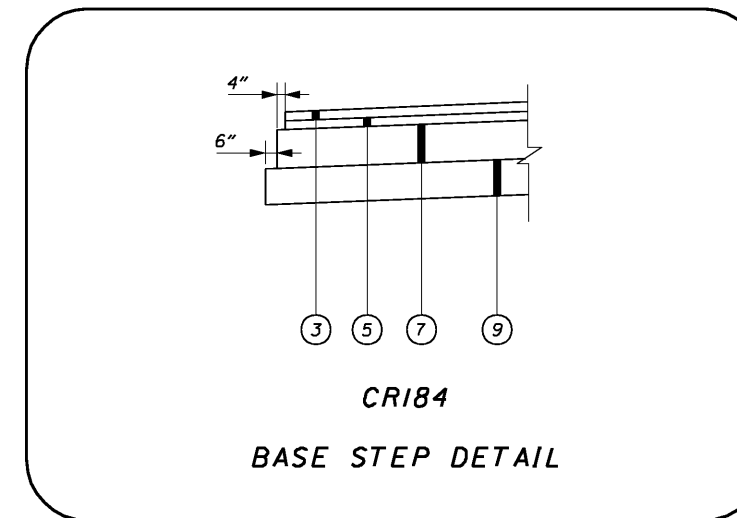
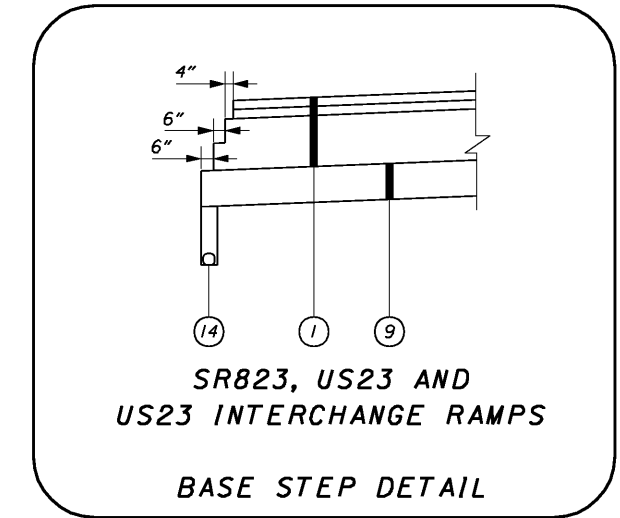
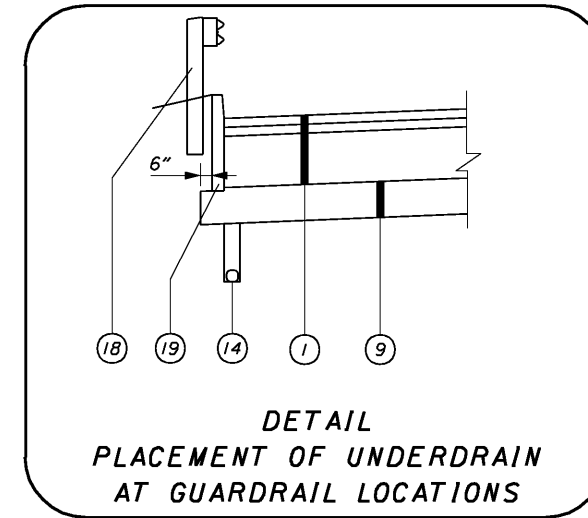
ALIGNMENT	CURVE NO.	T _C OR T _{CI}	T ₁ , T _S OR T _S	L OR L _C OR L _{CI}	E OR E _S	T.S. STATION	T.S. COORDINATES		S.C./P.C. STATION	S.C./P.C. COORDINATES		C.S./P.T. STATION	C.S./P.T. COORDINATES		S.T. STATION	S.T. COORDINATES		SUPER ELEVATION
							NORTH	EAST		NORTH	EAST		NORTH	EAST		NORTH	EAST	
SR823	CURVE #8	856.76	1,280.51	1,665.01	199.18	552+39.41	315,625.78	1,854,721.27	556+39.41	315,881.42	1,854,413.73	573+04.42	316,454.14	1,852,875.20	577+04.42	316,461.83	1,852,475.36	0.065
	CURVE #9	5,168.31	5,384.48	9,087.88	1,656.88	618+43.77	316,445.06	1,848,336.04	620+18.77	316,445.02	1,848,161.04	711+06.65	321,294.72	1,841,105.67	712+81.65	321,458.12	1,841,043.02	0.028
	CURVE #10	4,719.98	5,150.65	7,334.31	2,209.57	743+49.85	324,327.10	1,839,955.46	746+24.85	324,583.25	1,839,855.42	819+59.16	327,012.91	1,833,744.14	822+34.16	326,895.38	1,833,495.53	0.044
	CURVE #11	1,048.26	1,257.04	2,061.08	135.41	847+93.86	325,778.22	1,831,192.49	850+68.86	325,660.69	1,829,943.88	871+29.94	325,261.05	1,828,939.57				0.044
US23	CURVE #1		316.75	633.33	4.38				599+81.78	324,196.94	1,826,672.94	606+15.12	324,794.25	1,826,462.64				NA
	CURVE #2		350.44	700.00	10.71				642+05.11	328,146.26	1,825,177.31	649+05.11	328,782.94	1,824,887.44				0.016
	CURVE #3		300.27	600.00	7.86				704+99.41	333,723.36	1,822,262.85	710+99.41	334,237.53	1,821,954.16				NA
US23 RAMP A	CURVE #1		107.11	208.31	15.46				1904+30.85	325,330.03	1,825,639.31	1906+39.16	325,393.64	1,825,443.93				0.079
	CURVE #2		328.40	549.99	117.50				1906+39.16	325,393.64	1,825,443.93	1911+89.15	325,881.29	1,825,302.61				0.079
	CURVE #3		301.71	584.47	46.53				1916+64.62	326,318.26	1,825,490.02	1922+49.09	326,890.83	1,825,546.96				0.070
	CURVE #4		304.80	608.31	12.14				1922+49.09	326,890.83	1,825,546.96	1928+57.40	327,437.72	1,825,375.22				0.030
US23 RAMP B	CURVE #1		229.06	457.99	3.43				2589+30.00	323,209.95	1,827,039.44	2593+87.99	323,649.92	1,826,912.49				NA
	CURVE #2		226.38	452.63	3.35				2593+87.99	323,649.92	1,826,912.49	2598+40.62	324,084.79	1,826,787.17				NA
	CURVE #3		637.46	913.37	306.63				2603+61.61	324,580.92	1,826,628.15	2612+74.98	325,243.72	1,827,068.59				0.071
	CURVE #4		331.55	662.37	9.59				2612+74.98	325,243.72	1,827,068.59	2619+37.35	325,263.43	1,827,730.30				0.029
US23 RAMP C	CURVE #1		482.65	963.03	20.29				3884+38.51	325,329.20	1,827,632.40	3894+01.54	325,436.76	1,826,676.54				0.029
	CURVE #2		407.49	744.85	104.87				3894+01.54	325,436.76	1,826,676.54	3901+46.39	325,896.49	1,826,130.57				0.069
	CURVE #3		119.64	239.28	0.62				3908+37.21	326,541.26	1,825,882.57	3910+76.49	326,763.67	1,825,794.35				NA
	CURVE #4		98.95	197.89	0.43				3925+77.21	328,152.80	1,825,226.47	3927+75.10	328,335.32	1,825,150.01				NA
US23 RAMP D	CURVE #1	729.41	525.71	1,399.49	282.79				4904+10.82	325,376.45	1,825,660.64	4918+10.31	325,934.86	1,825,945.93	4920+10.31	325,756.49	1,826,034.77	0.079
CR184	CURVE #1		186.83	368.61	18.84				10+53.53	324,589.70	1,839,122.43	14+22.14	324,953.72	1,839,161.73				0.034
	CURVE #2		137.22	255.94	31.17				15+40.61	325,071.68	1,839,150.66	17+96.56	325,303.91	1,839,236.28				0.064
	CURVE #3		263.98	447.88	91.07				23+02.58	325,656.50	1,839,599.23	27+50.45	326,068.34	1,839,655.36				0.060
CR55	CURVE #1		82.43	164.86	0.59				20+58.99	325,429.00	1,826,826.48	22+23.84	325,587.50	1,826,781.18				NA

NOTES:
 THE GROUND COORDINATE VALUES SHOWN HEREIN ARE CONVERTED FROM THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE. THESE GROUND COORDINATES WERE ESTABLISHED BY DIVIDING THE GRID COORDINATE BY A COMBINED SCALE FACTOR OF 0.99996061457.

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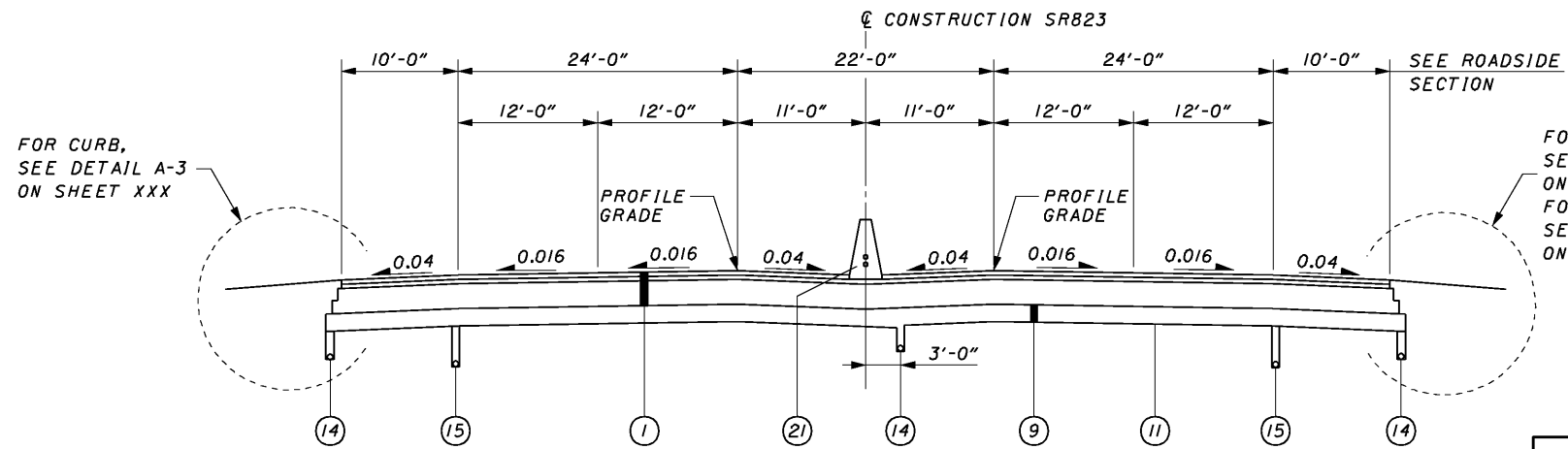
LEGEND

- ① ITEM 880 - ASPHALT CONCRETE (7 YEAR WARRANTY), 11.5" THICK FOR SR823, US23 AND US23 INTERCHANGE RAMPS
- ② ITEM 880 - NOT USED
- ③ ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)
- ④ ITEM 407 - TACK COAT (0.04 GALLONS/SQ YD)
- ⑤ ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446)
- ⑥ ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE (0.075 GALLONS/SQ YD)
- ⑦ ITEM 302 - 5" ASPHALT CONCRETE BASE, PG64-22
- ⑧ ITEM 408 - PRIME COAT (0.4 GALLONS/SQ YD)
- ⑨ ITEM 304 - 6" AGGREGATE BASE
- ⑩ ITEM 304 - 8" AGGREGATE BASE
- ⑪ ITEM 204 - SUBGRADE COMPCATION
- ⑫ NOT USED
- ⑬ ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T-17"), AS PER PLAN
- ⑭ ITEM 605 - 6" BASE PIPE UNDERDRAINS, 707.31
- ⑮ ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS, 707.31
- ⑯ ITEM 605 - 6" ROCK CUT UNDERDRAINS, 707.31
- ⑰ ITEM 605 - NOT USED
- ⑱ ITEM 606 - GUARDRAIL, TYPE 5
- ⑲ ITEM 609 - CURB, TYPE 4-C
- ⑳ ITEM 609 - COMBINATION CURB & GUTTER, TYPE 2
- ㉑ ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE BI (WITH 2-4" RACEWAY)
- ㉒ ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE CI (WITH 2-4" RACEWAY)
- ㉓ ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D
- ㉔ ITEM 659 - SEEDING AND MULCHING
- ㉕ NOISE BARRIER
- ㉖ CAST IN PLACE RETAINING WALL
- ㉗ ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C
- ㉘ ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C, AS PER PLAN
- ㉙ MECHANICALLY STABILIZED EARTH WALL (MSE)
- ⑳ ITEM 609 - CURB, TYPE 6



NOTES:

- 1. FOR GUARDRAIL LOCATIONS SEE PLAN SHEETS
- 2. FOR ROCK CUT UNDERDRAIN DETAILS SEE SHEET XXX.

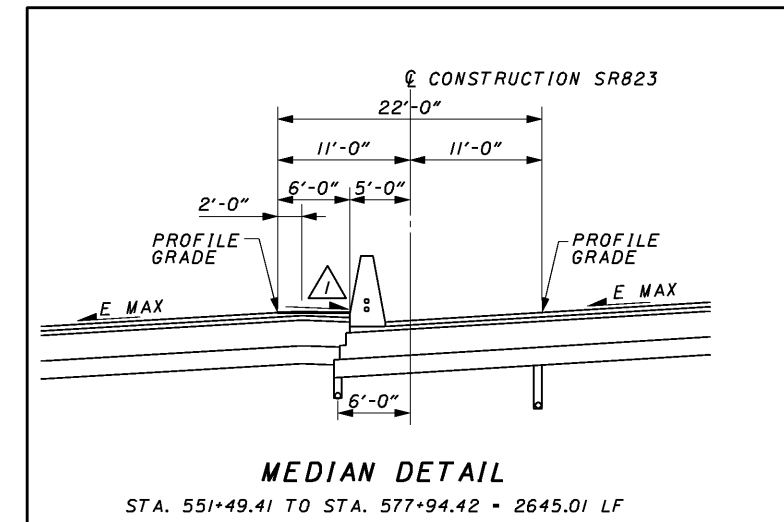


FOR CURB,
SEE DETAIL A-3
ON SHEET XXX

FOR CURB,
SEE DETAIL A-3
ON SHEET XXX
FOR CONCRETE BARRIER,
SEE DETAIL A-2
ON SHEET XXX

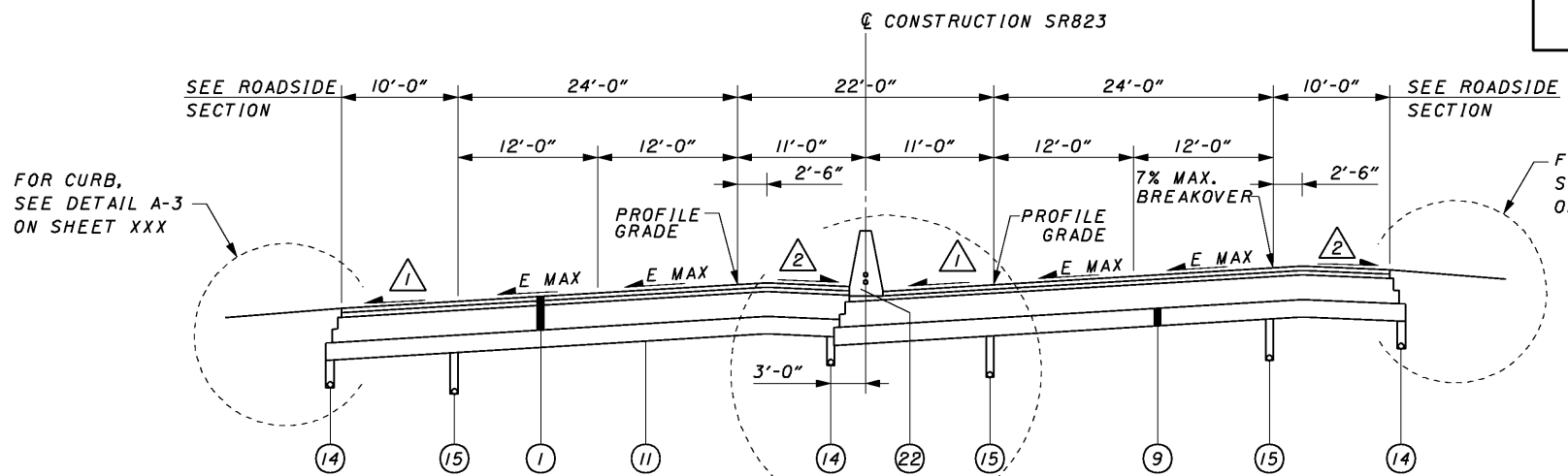
**SR823
NORMAL SECTION**

STA. 536+50.00 TO STA. 537+06.41 - 56.41 LF
 STA. 540+18.34 TO STA. 551+40.95 - 1122.61 LF
 STA. 578+02.88 TO STA. 578+18.21 - 15.33 LF
 STA. 579+77.56 TO STA. 617+43.77 - 3766.21 LF
 STA. 713+81.65 TO STA. 716+39.45 - 257.80 LF
 STA. 720+26.45 TO STA. 742+49.85 - 2223.40 LF



MEDIAN DETAIL

STA. 551+49.41 TO STA. 577+94.42 - 2645.01 LF



FOR CURB,
SEE DETAIL A-3
ON SHEET XXX

FOR CURB,
SEE DETAIL A-3
ON SHEET XXX

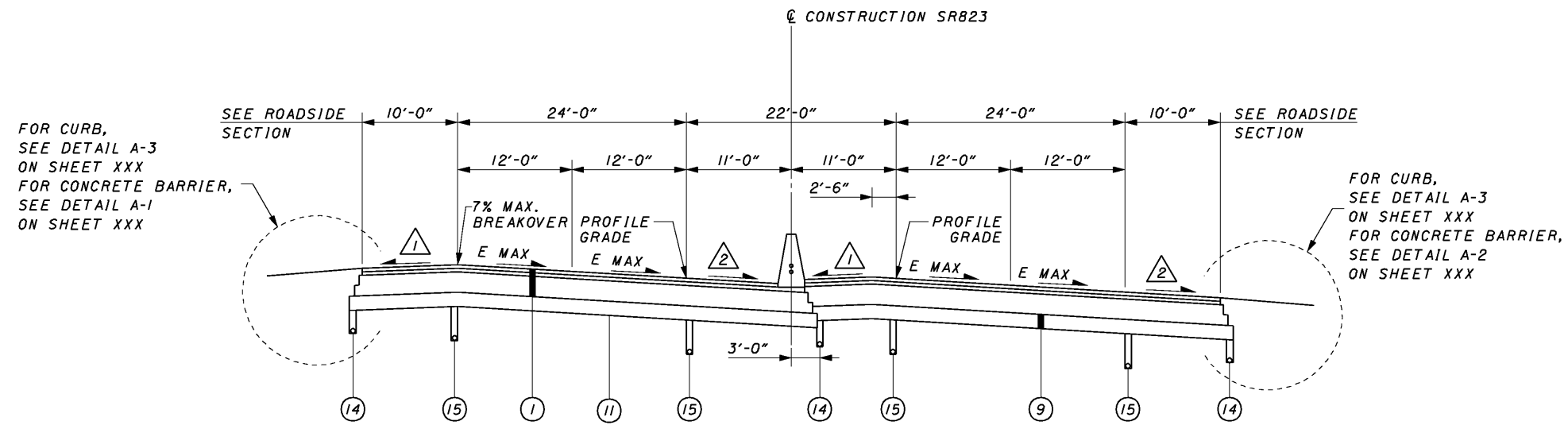
**SR823
SUPERELEVATED SECTION**

STA. 551+40.95 TO STA. 578+02.88 - 2661.93 LF [E_{max} = 0.065]
 STA. 742+49.85 TO STA. 823+34.16 - 8084.31 LF [E_{max} = 0.044]

NOTES:

FOR LEGEND SEE SHEET XX
 FOR ROADSIDE SECTION SEE SHEET XX

- △ 0.04 OR RATE OF SUPERELEVATION, WHICH EVER IS GREATER.
- △ 0.04 OR AS SHOWN ON THE SUPER TABLE



**SR823
SUPERELEVATED SECTION**

STA. 617+43.77 TO STA. 713+81.65 = 9637.88 LF [E_{max} = 0.028]

NOTES:

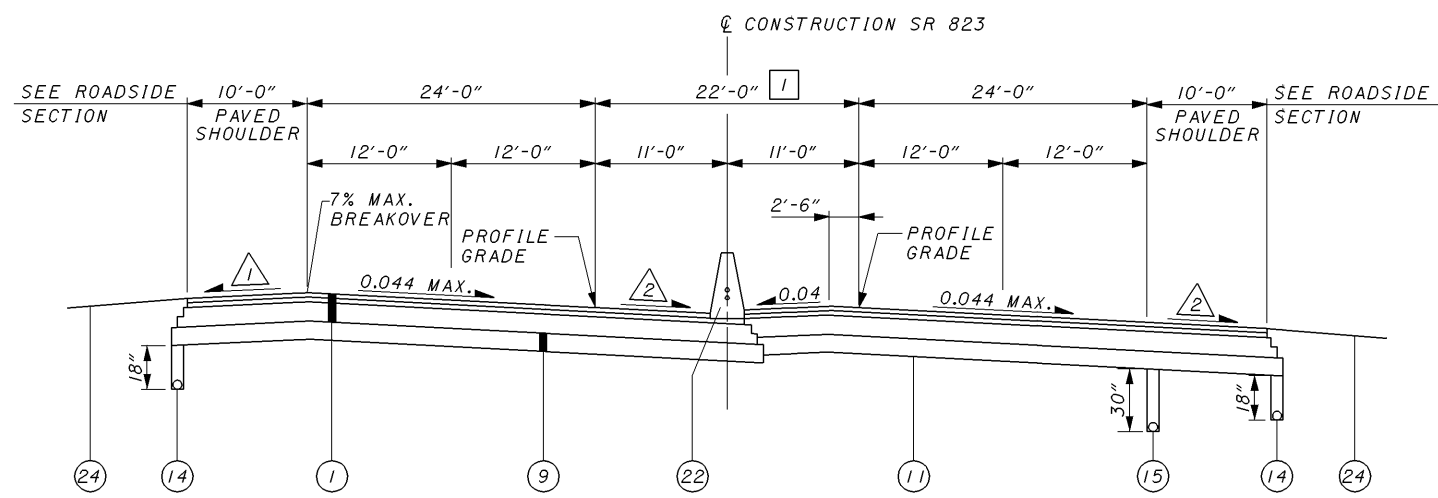
FOR LEGEND SEE SHEET XX
FOR ROADSIDE SECTION SEE SHEET XX

- △ 1 0.04 OR AS SHOWN ON THE SUPERELEVATION TABLE
- △ 2 0.04 OR RATE OF SUPERELEVATION, WHICH EVER IS GREATER.

NOTES:

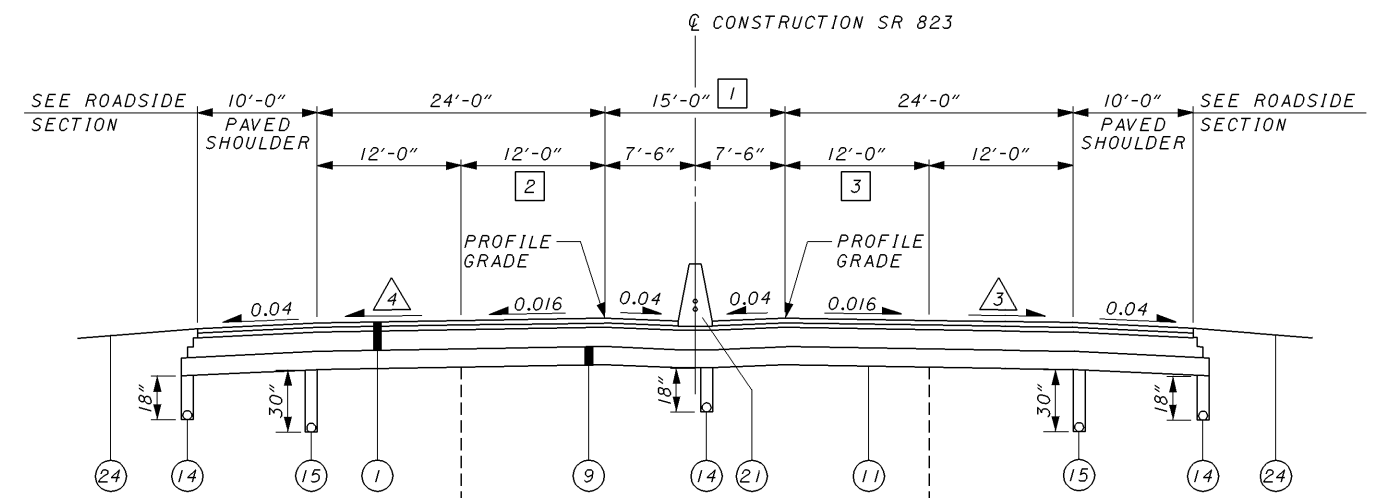
1. FOR LEGEND AND BASE STEP DETAIL SEE SHEET XXX.
2. FOR ROADSIDE SECTION SEE SHEET XXX.
3. FOR GUARDRAIL LOCATIONS SEE PLAN SHEETS.
4. FOR ROCK CUT UNDERDRAIN DETAILS SEE SHEET XXX.

- △ 1. SLOPE VARIES 0.04 TO 0.026. SEE SUPERELEVATION TABLES, SHEET XXX.
- △ 2. 0.04 OR RATE OF SUPERELEVATION, WHICHEVER IS GREATER. SEE SUPERELEVATION TABLES, SHEET XXX.
- △ 3. 0.016 OR AS SHOWN ON PAVEMENT DETAILS, SHEET XXX.
- △ 4. 0.016 OR AS SHOWN ON PAVEMENT DETAILS, SHEET XXX.
- 1. WIDTH VARIES FROM 22'-0" AT STA. 871+06.66 TO 15'-0" AT STA. 876+07.56 (MEDIAN TRANSITION)
- 2. WIDTH VARIES FROM 12'-0" AT STA. 883+38.81 TO 16'-0" AT STA. 889+34.88
- 3. WIDTH VARIES FROM 12'-0" AT STA. 884+38.51 TO 16'-0" AT STA. 887+41.60
- 4. WIDTH VARIES FROM 10'-0" AT STA. 883+38.85 TO 8'-0" AT STA. 883+88.85
- 5. WIDTH VARIES FROM 12'-0" AT STA. 883+38.81 TO 16'-0" AT STA. 889+34.88
- 6. WIDTH VARIES FROM 0'-0" AT STA. 885+93.62 TO 23'-0" AT STA. 889+34.88
- 7. WIDTH VARIES FROM 0'-0" AT STA. 887+41.60 TO 23'-0" AT STA. 890+34.55
- 8. WIDTH VARIES FROM 12'-0" AT STA. 884+38.51 TO 16'-0" AT STA. 887+41.60, WIDTH IS 16'-0" FROM STA. 887+41.60 TO STA. 890+34.55
- 9. WIDTH VARIES FROM 10'-0" AT STA. 884+38.51 TO 8'-0" AT STA. 884+88.51



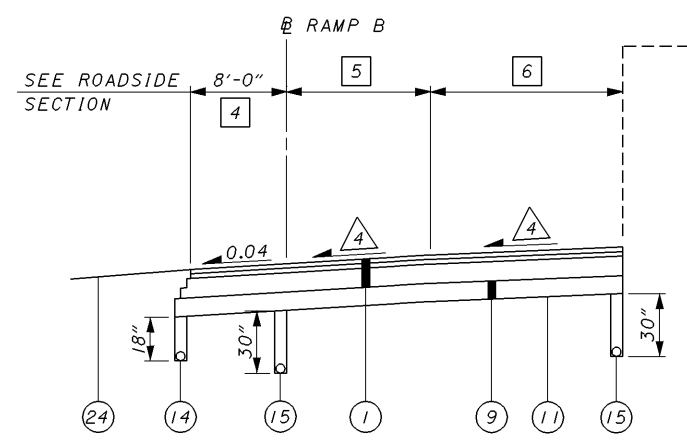
SR 823 SUPERELEVATED SECTION

SR 823 (SB): STA. 846+93.86 TO STA. 874+01.94 = 2708.08 LF SR 823 (NB): STA. 848+93.86 TO STA. 872+09.94 = 2316.08 LF



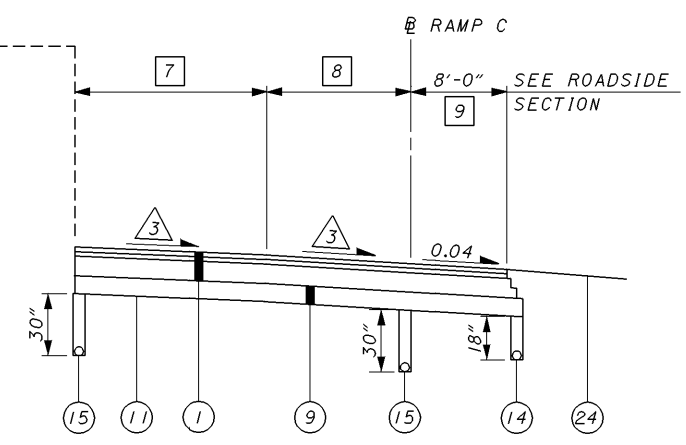
SR 823 MEDIAN BARRIER SECTION

SR 823 (SB): STA. 874+01.94 TO STA. 889+34.88 = 1532.94 LF
 SR 823 (NB): STA. 872+09.94 TO STA. 890+34.55 = 1824.61 LF



US 23 INTERCHANGE RAMP B SPEED CHANGE LANE (ACCELERATION)

SR 823: STA. 883+38.85 TO STA. 889+34.88 = 596.07 LF



US 23 INTERCHANGE RAMP C SPEED CHANGE LANE (DECELERATION)

SR 823: STA. 884+38.51 TO STA. 890+34.55 = 596.04 LF

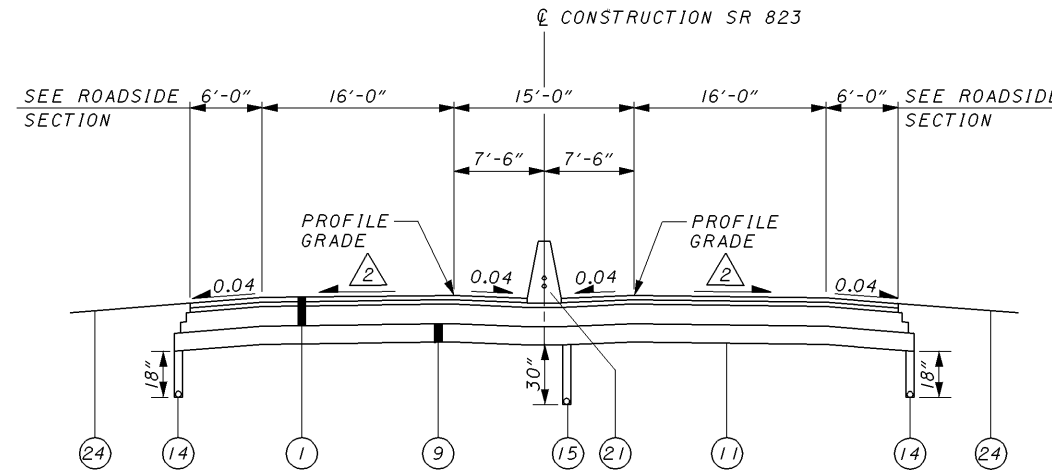
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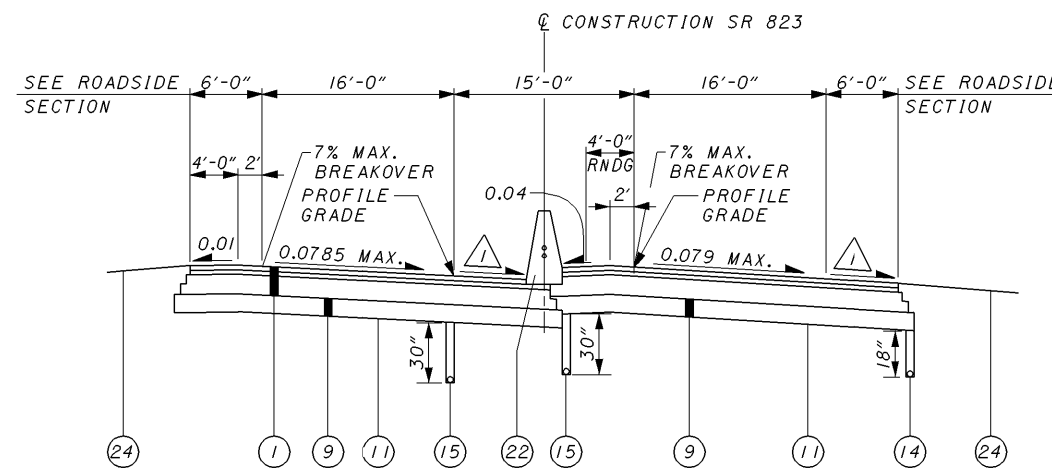
NOTES:

1. FOR LEGEND AND BASE STEP DETAIL SEE SHEET XXX.
 2. FOR ROADSIDE SECTION SEE SHEET XXX.
 3. FOR GUARDRAIL LOCATIONS SEE PLAN SHEETS.
 4. FOR ROCK CUT UNDERDRAIN DETAILS SEE SHEET XXX.
- △ 0.04 OR RATE OF SUPERELEVATION, WHICHEVER IS GREATER. SEE SUPERELEVATION TABLES, SHEET XXX.
- △ 2 SLOPE VARIES, SEE PAVEMENT DETAILS, SHEET XXX.



SR 823
TYPE BI MEDIAN BARRIER SECTION

SR 823 (SB): STA. 889+34.88 TO STA. 891+33.58 = 198.70 LF SR 823 (NB): STA. 890+34.55 TO STA. 891+33.58 = 90.03 LF
 SR 823 (SB): STA. 892+94.91 TO STA. 895+16.86 = 221.95 LF SR 823 (NB): STA. 892+94.91 TO STA. 895+16.86 = 221.95 LF
 SR 823 (SB): STA. 899+44.27 TO STA. 903+16.68 = 372.41 LF SR 823 (NB): STA. 899+44.27 TO STA. 903+16.68 = 372.41 LF



SR 823
TYPE CI MEDIAN BARRIER SUPERELEVATED SECTION

SR 823 (SB): STA. 903+16.68 TO STA. 904+10.82 = 94.14 LF SR 823 (NB): STA. 903+16.68 TO STA. 904+10.82 = 94.14 LF

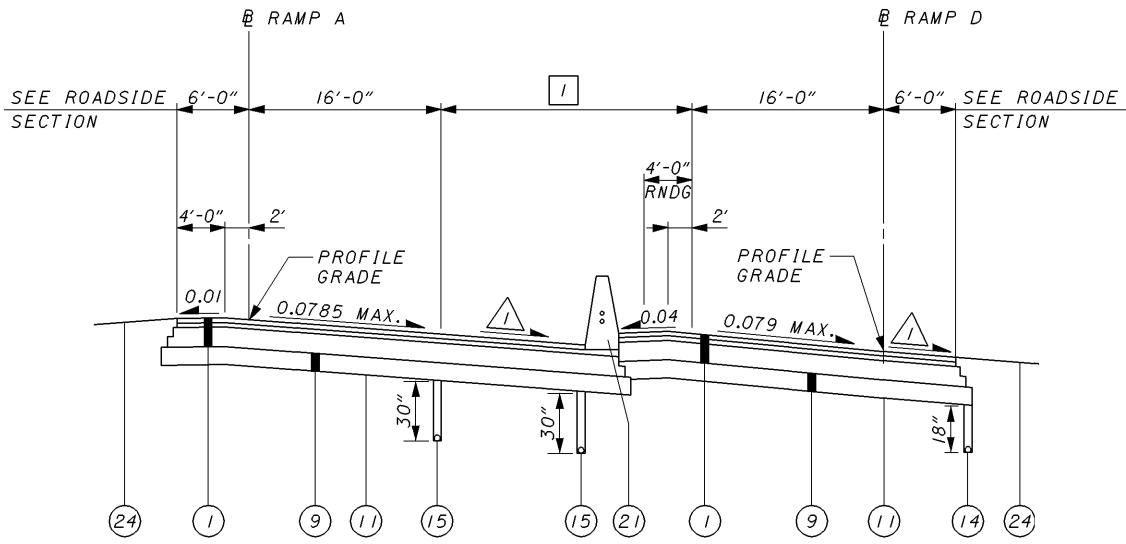
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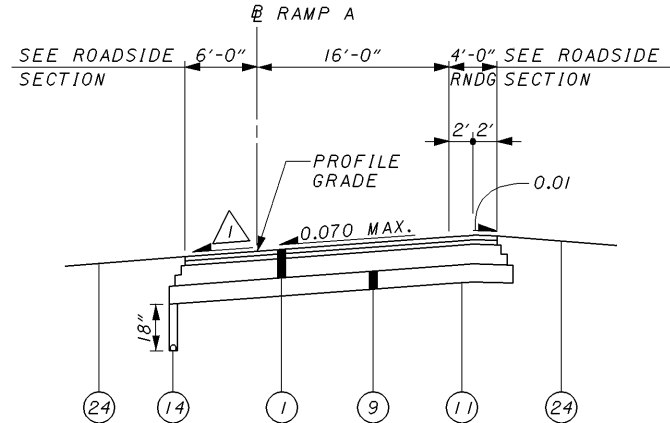
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NOTES:

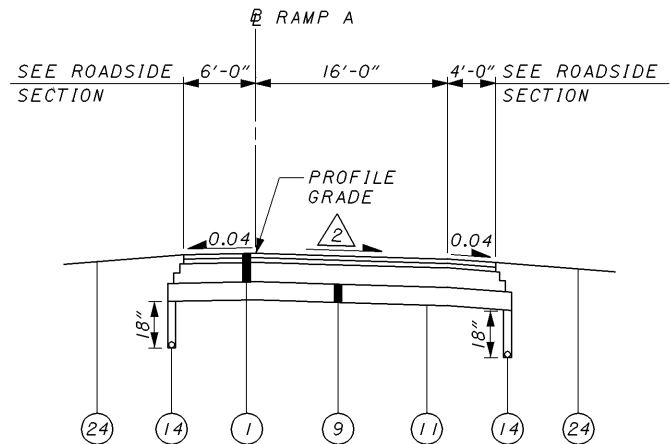
1. FOR LEGEND AND BASE STEP DETAIL SEE SHEET XXX.
 2. FOR ROADSIDE SECTION SEE SHEET XXX.
 3. FOR GUARDRAIL LOCATIONS SEE PLAN SHEETS.
 4. FOR ROCK CUT UNDERDRAIN DETAILS SEE SHEET XXX.
- △ 0.04 OR RATE OF SUPERELEVATION, WHICHEVER IS GREATER. SEE SUPERELEVATION TABLES, SHEET XXX.
- △ 2 SLOPE VARIES, SEE SUPERELEVATION TABLES, SHEET XXX.
- 1 WIDTH VARIES FROM 15'-0" AT STA. 1904+10.82 TO 20'-11" AT STA. 1906+39.16, WIDTH IS 20'-11" FROM STA. 1906+39.16 TO STA. 1911+89.15, WIDTH VARIES FROM 20'-11" AT STA. 1911+89.15 TO 27'-9" AT STA. 1912+62.05



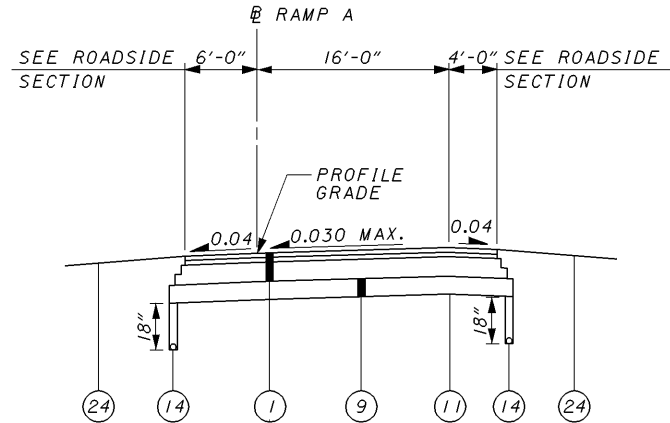
**US 23 INTERCHANGE
SUPERELEVATED SECTION - RAMP A & D**
 RAMP A: STA. 1904+10.82 TO STA. 1912+62.05 = 851.23 LF
 RAMP D: STA. 4904+10.82 TO STA. 4911+53.03 = 742.21 LF



**US 23 INTERCHANGE
SUPERELEVATED SECTION - RAMP A**
 RAMP A: STA. 1914+40.49 TO STA. 1923+77.09 = 936.60 LF

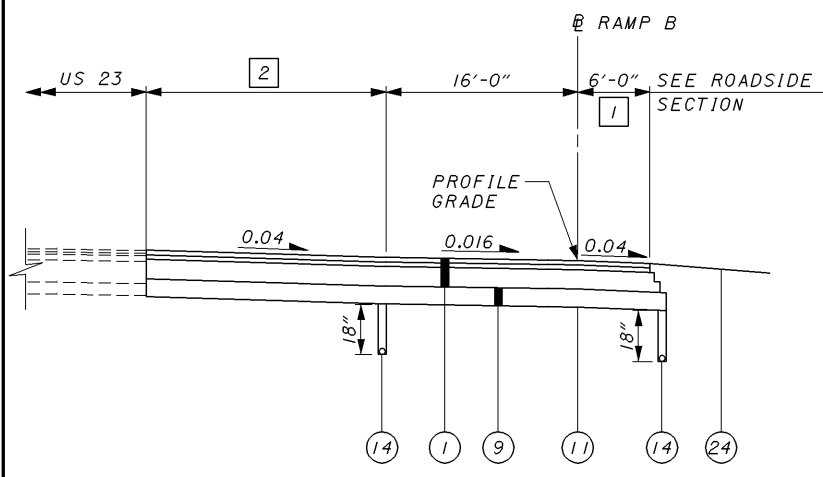


**US 23 INTERCHANGE
SUPERELEVATED SECTION - RAMP A**
 RAMP A: STA. 1912+62.05 TO STA. 1914+40.49 = 178.44 LF



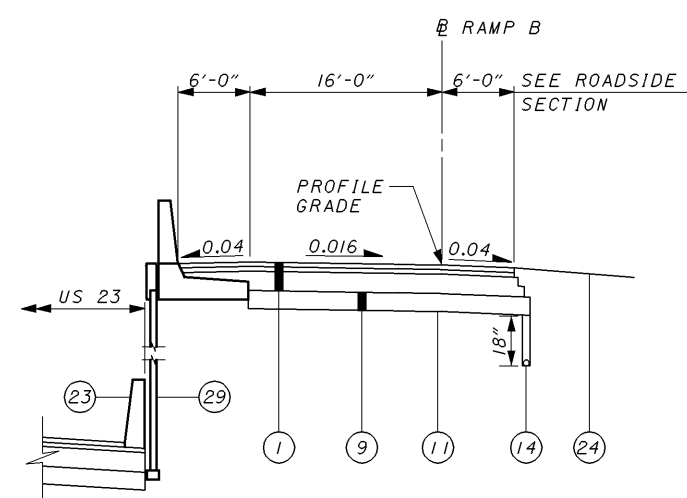
**US 23 INTERCHANGE
SUPERELEVATED SECTION - RAMP A**
 RAMP A: STA. 1923+77.09 TO STA. 1924+03.92 = 26.83 LF

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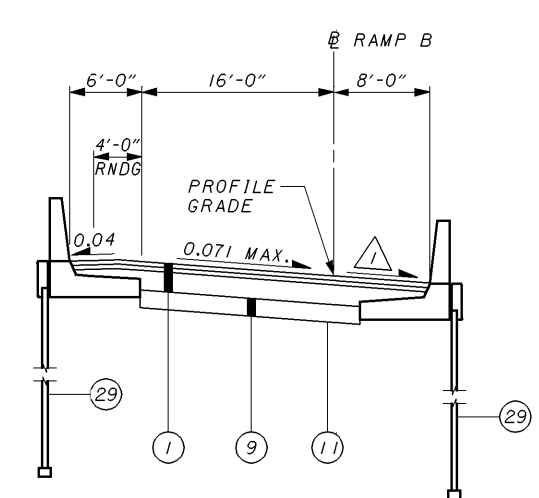
US 23 INTERCHANGE
NORMAL SECTION - RAMP B

RAMP B: STA. 2596+16.19 TO STA. 2596+35.00 = 18.81 LF



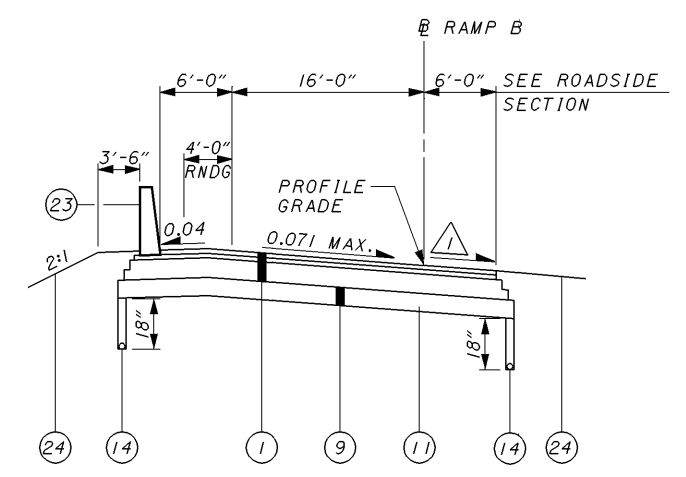
US 23 INTERCHANGE NORMAL SECTION
WITH MSE WALL & TYPE D BARRIER - RAMP B

RAMP B: STA. 2598+25.00 TO STA. 2600+25.00 = 200.00 LF



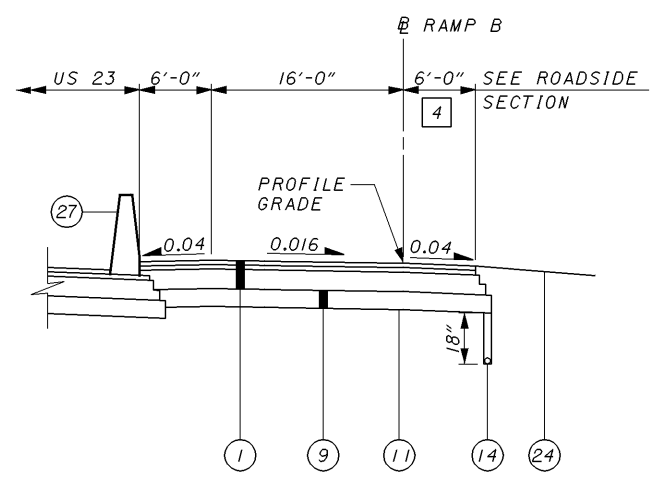
US 23 INTERCHANGE SUPERELEVATED
SECTION WITH MSE WALLS - RAMP B

RAMP B: STA. 2602+67.16 TO STA. 2604+09.75 = 142.59



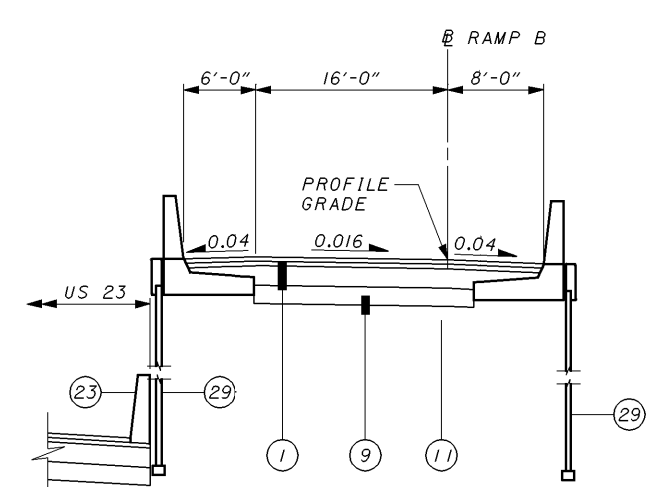
US 23 INTERCHANGE SUPERELEVATED
SECTION TYPE D BARRIER - RAMP B

RAMP B: STA. 2611+67.61 TO STA. 2612+25.25 = 57.65 LF



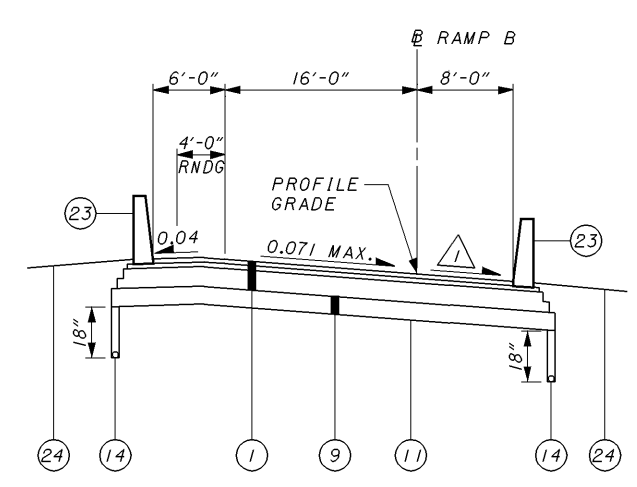
US 23 INTERCHANGE NORMAL
SECTION WITH TYPE C BARRIER - RAMP B

RAMP B: STA. 2596+35.00 TO STA. 2598+25.00 = 190.00 LF



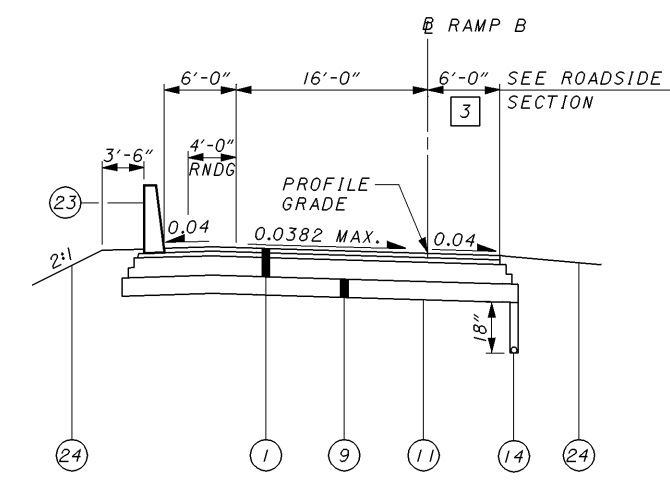
US 23 INTERCHANGE NORMAL SECTION
WITH MSE WALLS & TYPE D BARRIER - RAMP B

RAMP B: STA. 2600+25.00 TO STA. 2602+67.16 = 242.16 LF



US 23 INTERCHANGE SUPERELEVATED
SECTION TYPE D BARRIER - RAMP B

RAMP B: STA. 2609+37.25 TO STA. 2610+08.59 = 71.34 LF



US 23 INTERCHANGE SUPERELEVATED
SECTION TYPE D BARRIER - RAMP B

RAMP B: STA. 2612+25.25 TO STA. 2613+41.87 = 116.62 LF

NOTES:

- 1. FOR LEGEND AND BASE STEP DETAIL SEE SHEET XXX.
- 2. FOR ROADSIDE SECTION SEE SHEET XXX.
- 3. FOR GUARDRAIL LOCATIONS SEE PLAN SHEETS.
- 4. FOR ROCK CUT UNDERDRAIN DETAILS SEE SHEET XXX.

- △ 0.04 OR RATE OF SUPERELEVATION, WHICHEVER IS GREATER. SEE SUPERELEVATION TABLES, SHEET XXX.
- 1 WIDTH VARIES FROM 8'-0" AT STA. 2596+16.19 TO 7'-3" AT STA. 2596+35.00

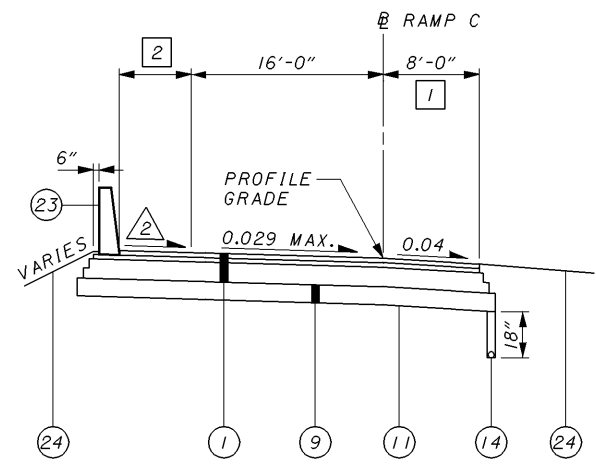
- 2 WIDTH VARIES FROM 20.0' AT STA. 2596+16.19 TO 20.55' AT STA. 2596+35.00
- 3 WIDTH VARIES FROM 6'-0" AT STA. 2612+74.98 TO 8'-0" AT STA. 2613+24.98

- 4 WIDTH VARIES FROM 7'-3" AT STA. 2596+35.00 TO 8'-0" AT STA. 2596+66.19

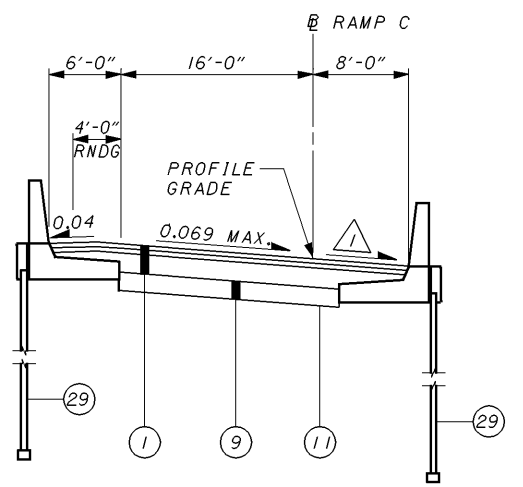
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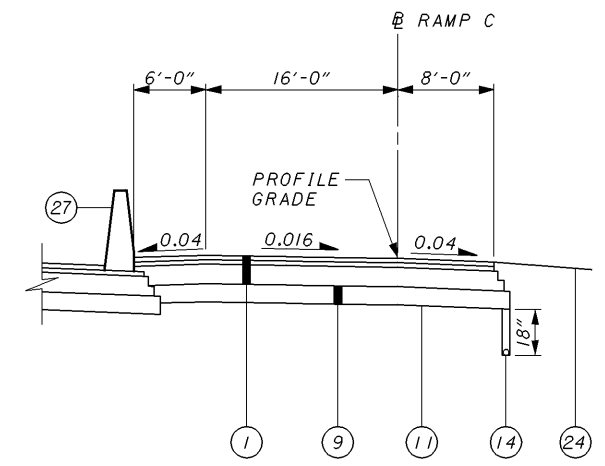
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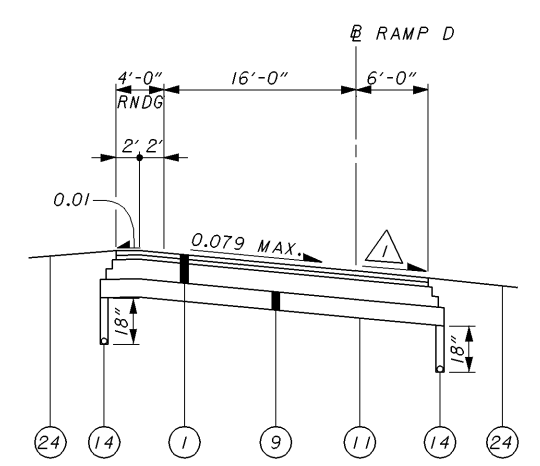
**US 23 INTERCHANGE
SUPERELEVATED SECTION - RAMP C**
RAMP C: STA. 3890+33.96 TO STA. 3891+59.99 = 126.03 LF



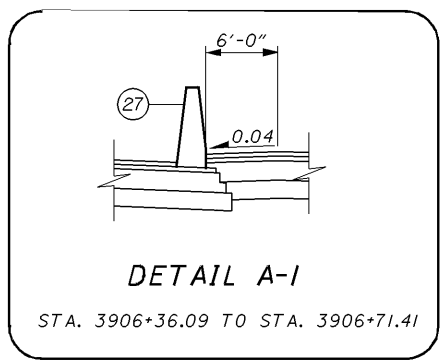
**US 23 INTERCHANGE SUPERELEVATED
SECTION WITH MSE WALLS - RAMP C**
RAMP C: STA. 3900+64.25 TO STA. 3902+43.63 = 179.38 LF



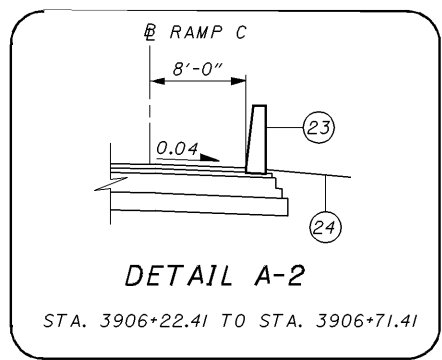
**US 23 INTERCHANGE NORMAL SECTION
W/ TYPE C BARRIER - RAMP C**
RAMP C: STA. 3906+57.41 TO STA. 3908+00.00 = 142.59 LF



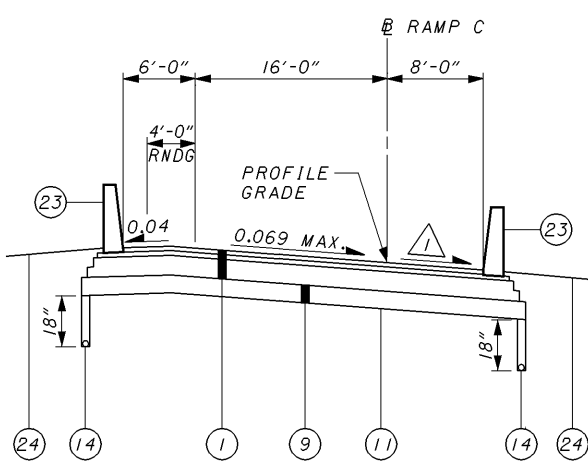
**US 23 INTERCHANGE
SUPERELEVATED SECTION - RAMP D**
RAMP D: STA. 4911+53.03 TO STA. 4917+88.24 = 635.21 LF



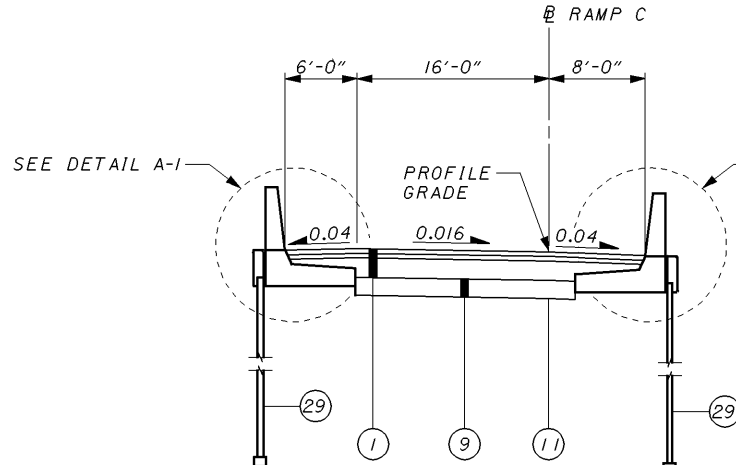
DETAIL A-1
STA. 3906+36.09 TO STA. 3906+71.41



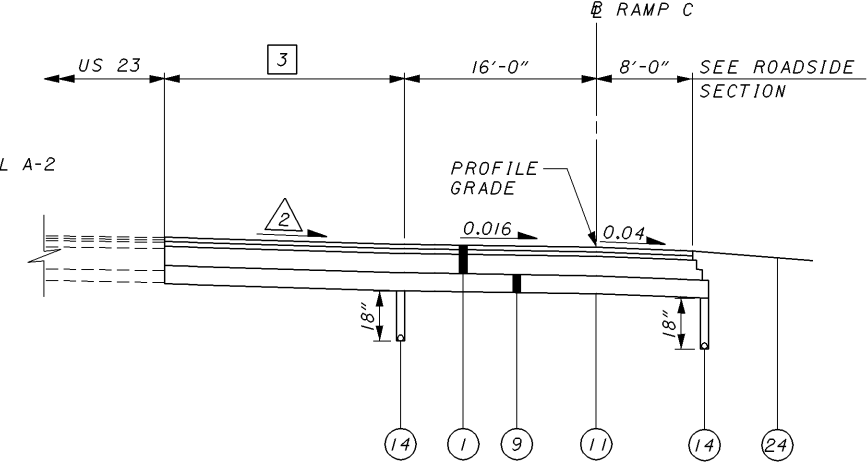
DETAIL A-2
STA. 3906+22.41 TO STA. 3906+71.41



**US 23 INTERCHANGE
SUPERELEVATED SECTION - RAMP C**
RAMP C: STA. 3893+26.87 TO STA. 3894+44.75 = 117.88 LF



**US 23 INTERCHANGE
NORMAL SECTION WITH MSE WALL - RAMP C**
RAMP C: STA. 3902+43.63 TO STA. 3906+71.41 = 427.78 LF



**US 23 INTERCHANGE
NORMAL SECTION - RAMP C**
RAMP C: STA. 3908+00.00 TO STA. 3908+37.21 = 37.21 LF

NOTES:

1. FOR LEGEND AND BASE STEP DETAIL SEE SHEET XXX.
2. FOR ROADSIDE SECTION SEE SHEET XXX.
3. FOR GUARDRAIL LOCATIONS SEE PLAN SHEETS.
4. FOR ROCK CUT UNDERDRAIN DETAILS SEE SHEET XXX.

- △ 0.04 OR RATE OF SUPERELEVATION, WHICHEVER IS GREATER. SEE SUPERELEVATION TABLES, SHEET XXX.
- △ VARIES, SEE PAVEMENT DETAILS, SHEET XXX.

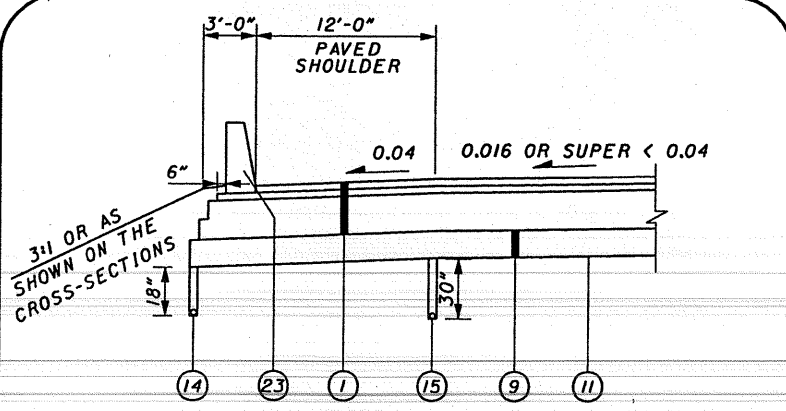
1 WIDTH IS 6'-0" FROM STA. 3892+97.36 TO STA. 3893+26.06

3 WIDTH VARIES FROM 23.04' AT STA. 3908+00.00 TO 23.00' AT STA. 3908+37.21

2 WIDTH VARIES, SEE PAVEMENT DETAILS, SHEET XXX.

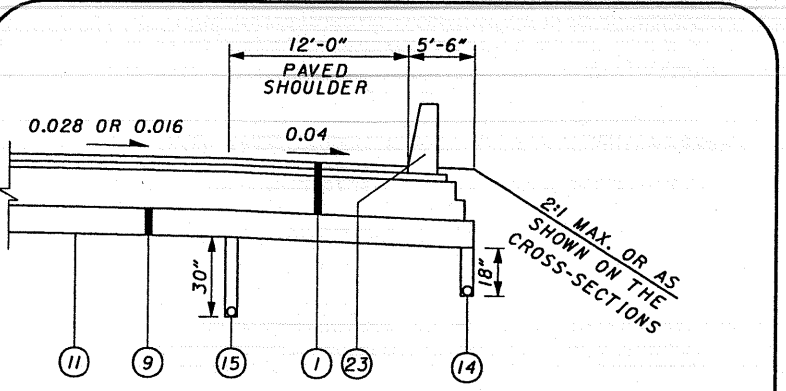
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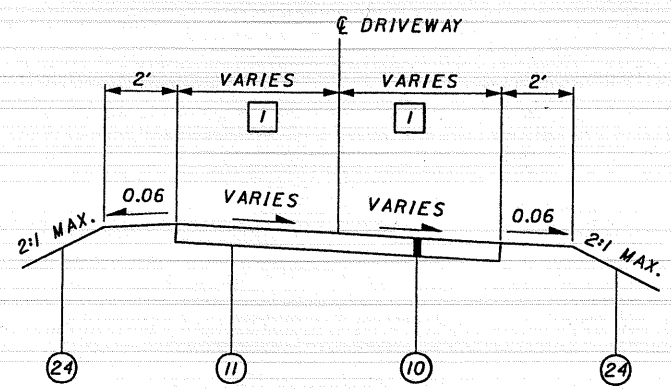
DETAIL A-1

SR823: STA. 627+89.44 LT. TO STA. 630+00.00 LT. - 210.56 LF
 SR823: STA. 649+39.65 LT. TO STA. 653+50.00 LT. - 360.35 LF
 SR823: STA. 685+39.65 LT. TO STA. 687+00.00 LT. - 160.35 LF
 SR823: STA. 703+39.65 LT. TO STA. 708+99.80 LT. - 560.15 LF



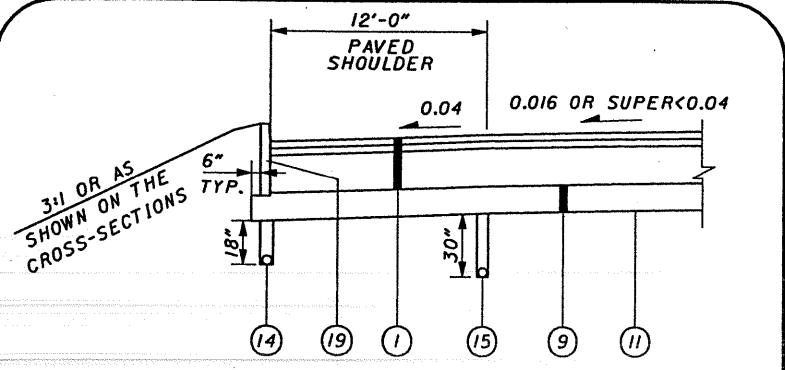
DETAIL A-2

SR823: STA. 626+94.98 RT. TO STA. 631+00.00 RT. - 405.02 LF
 SR823: STA. 638+39.65 RT. TO STA. 640+00.00 RT. - 160.35 LF
 SR823: STA. 643+39.65 RT. TO STA. 644+50.00 RT. - 110.35 LF
 SR823: STA. 650+89.65 RT. TO STA. 654+50.00 RT. - 360.35 LF
 SR823: STA. 662+89.65 RT. TO STA. 664+50.00 RT. - 160.35 LF
 SR823: STA. 675+89.65 RT. TO STA. 679+50.00 RT. - 360.35 LF
 SR823: STA. 683+89.65 RT. TO STA. 688+00.00 RT. - 410.35 LF
 SR823: STA. 703+89.65 RT. TO STA. 711+37.30 RT. - 747.65 LF
 SR823: STA. 729+03.60 RT. TO STA. 741+52.00 RT. - 1248.40 LF



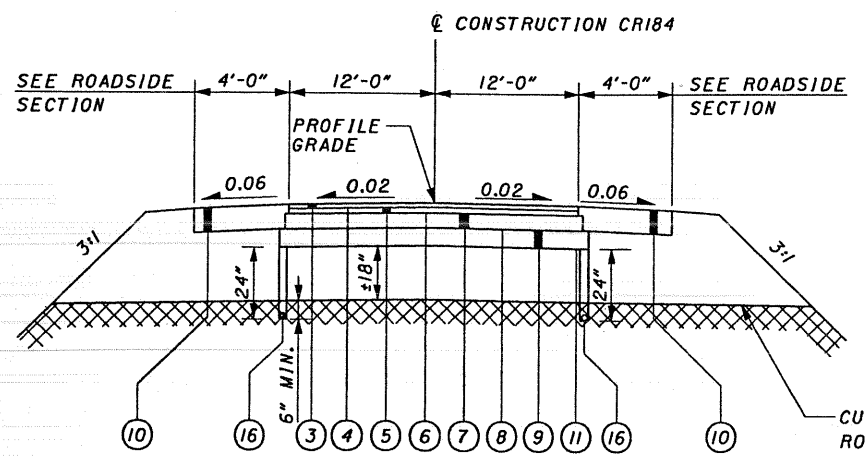
DRIVEWAY SECTION

CR184: STA. 25+25.00 RT.



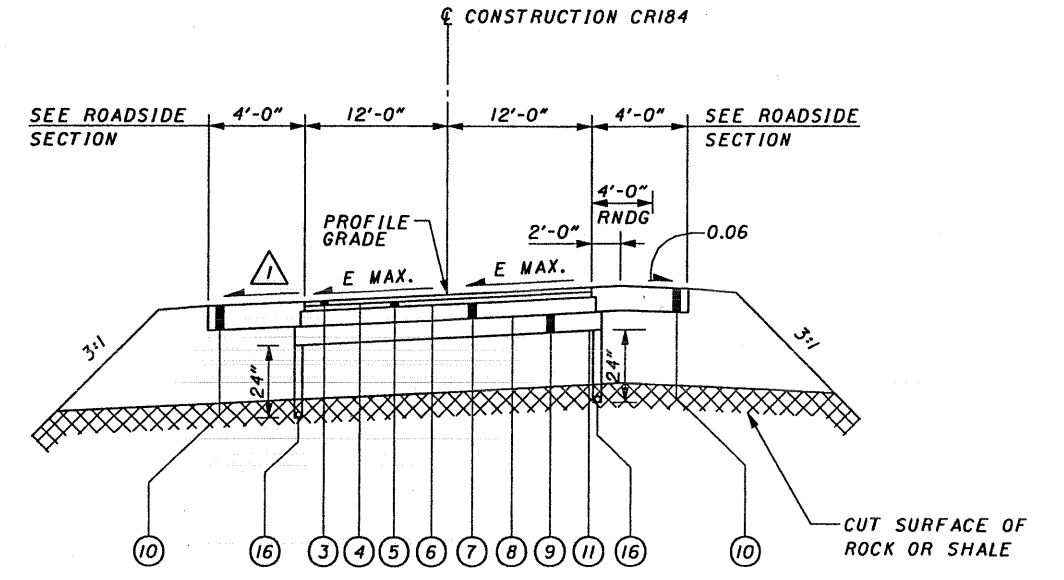
DETAIL A-3
(OPPOSITE HAND ALSO)

SR823: STA. 536+37.25 RT. TO STA. 536+77.19 RT. - 39.94 LF
 SR823: STA. 540+43.57 LT. TO STA. 540+63.57 LT. - 20.00 LF
 SR823: STA. 577+37.25 LT. TO STA. 578+02.94 LT. - 65.79 LF
 SR823: STA. 577+87.25 RT. TO STA. 578+33.48 RT. - 46.23 LF
 SR823: STA. 626+74.98 RT. TO STA. 626+94.98 RT. - 20.00 LF
 SR823: STA. 630+00.00 LT. TO STA. 630+20.00 LT. - 20.00 LF
 SR823: STA. 638+19.65 RT. TO STA. 638+39.65 RT. - 20.00 LF
 SR823: STA. 643+19.65 RT. TO STA. 643+39.65 RT. - 20.00 LF
 SR823: STA. 650+69.65 RT. TO STA. 650+89.65 RT. - 20.00 LF
 SR823: STA. 653+50.00 LT. TO STA. 653+70.00 LT. - 20.00 LF
 SR823: STA. 662+69.65 RT. TO STA. 662+89.65 RT. - 20.00 LF
 SR823: STA. 675+69.65 RT. TO STA. 675+89.65 RT. - 20.00 LF
 SR823: STA. 683+69.65 RT. TO STA. 683+89.65 RT. - 20.00 LF
 SR823: STA. 687+00.00 LT. TO STA. 687+20.00 LT. - 20.00 LF
 SR823: STA. 703+69.65 RT. TO STA. 703+89.65 RT. - 20.00 LF
 SR823: STA. 708+99.80 LT. TO STA. 709+19.80 LT. - 20.00 LF
 SR823: STA. 716+19.45 RT. TO STA. 716+39.45 RT. - 20.00 LF
 SR823: STA. 720+26.45 RT. TO STA. 720+62.75 RT. - 36.30 LF
 SR823: STA. 720+26.45 LT. TO STA. 721+26.39 LT. - 99.94 LF
 SR823: STA. 728+83.60 RT. TO STA. 729+03.60 RT. - 20.00 LF



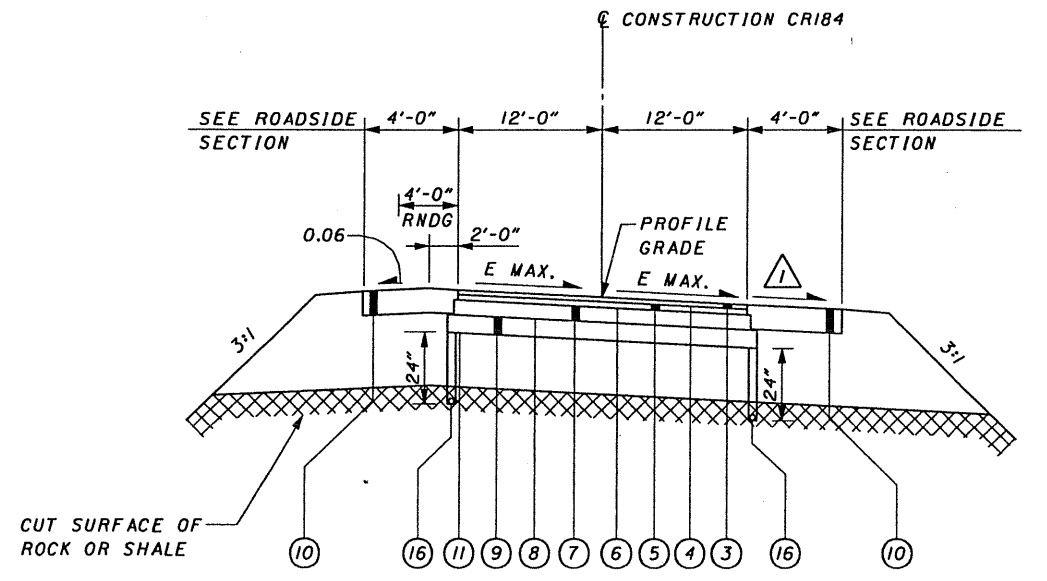
CR184
NORMAL SECTION

STA. 19+10.08 TO STA. 21+97.58 - 287.58 LF



TR184
SUPERELEVATED SECTION

STA. 8+85.44 TO STA. 14+63.26 - 577.82 LF (E MAX. - 0.034)
 STA. 21+97.58 TO STA. 28+94.28 - 696.7 LF (E MAX. - 0.06)



TR184
SUPERELEVATED SECTION

STA. 14+63.26 TO STA. 19+10.08 - 446.82 LF (E MAX. - 0.0364)

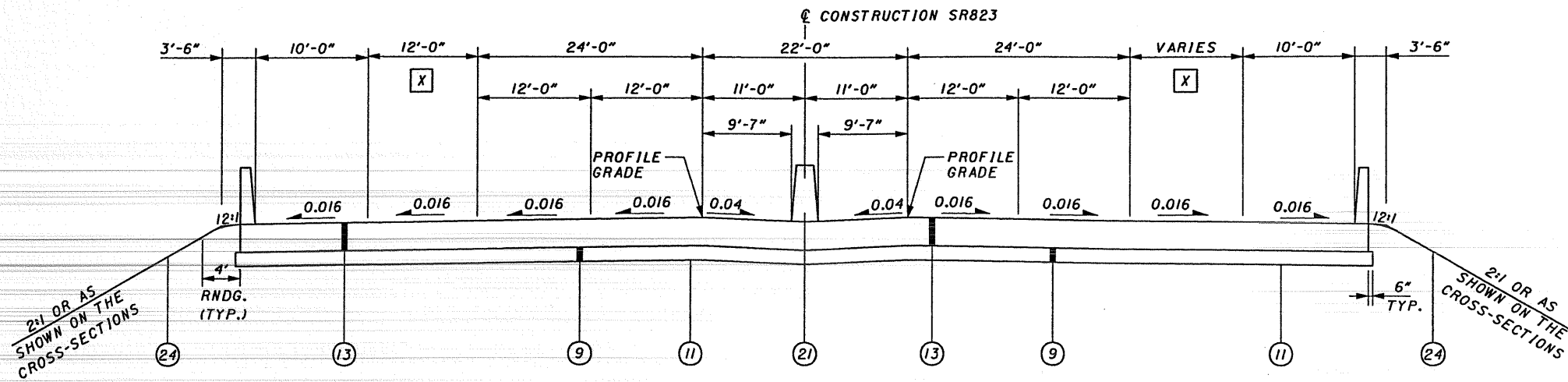
△ 0.06 OR SUPERELEVATION RATE WHICH EVER IS GREATER.

□ WIDTH VARIES SEE DRIVEWAY DETAIL SHEET NO. X

NOTES:

1. FOR LEGEND AND BASE STEP DETAIL SEE SHEET XX
2. FOR ROADSIDE SECTION SEE SHEET XX
3. FOR GUARDRAIL LOCATIONS SEE PLAN SHEETS
4. FOR ROCK CUT UNDERDRAIN DETAILS SEE SHEET XXX.

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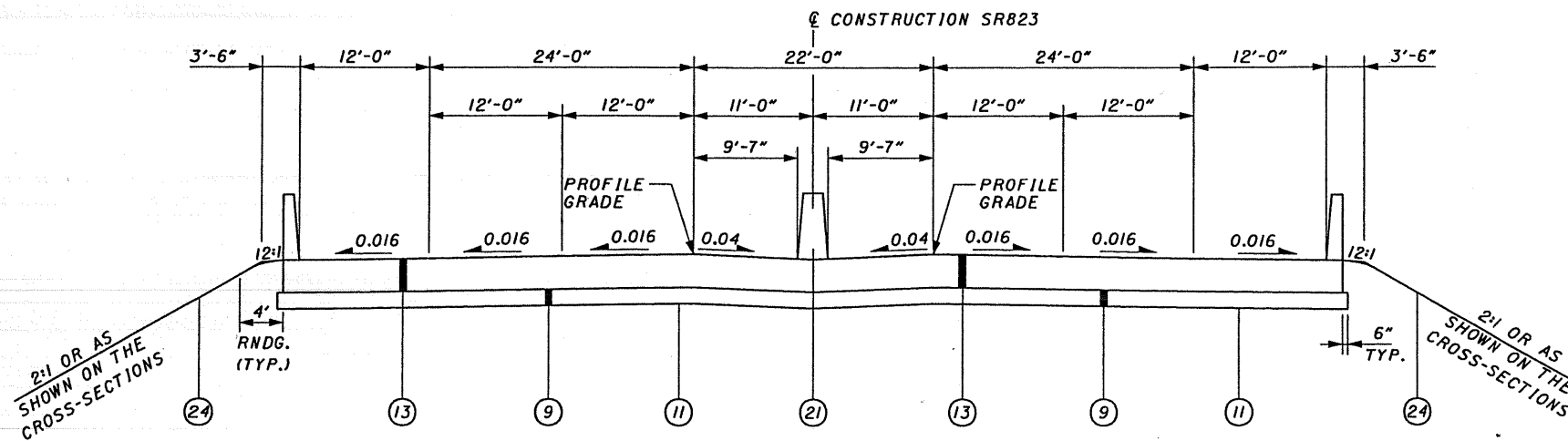


APPROACH SLAB SECTION - SR823 OVER LUCASVILLE-MINFORD ROAD (CR-28)

STA. 537+06.41 TO STA. 537+31.41 - 25.00 LF

SCI-823-1018 BRIDGE LIMITS

STA. 539+93.34 TO STA. 540+18.34 - 25.00 LF



APPROACH SLAB SECTION - SR823 OVER BLUE RUN ROAD (CR-29)

STA. 578+18.21 TO STA. 578+48.21 - 30.00 LF

SCI-823-1096 BRIDGE LIMITS

STA. 579+47.56 TO STA. 579+77.56 - 30.00 LF

APPROACH SLAB SECTION - SR823 OVER MORRIS LANE BLUE RUN ROAD (CR-54)

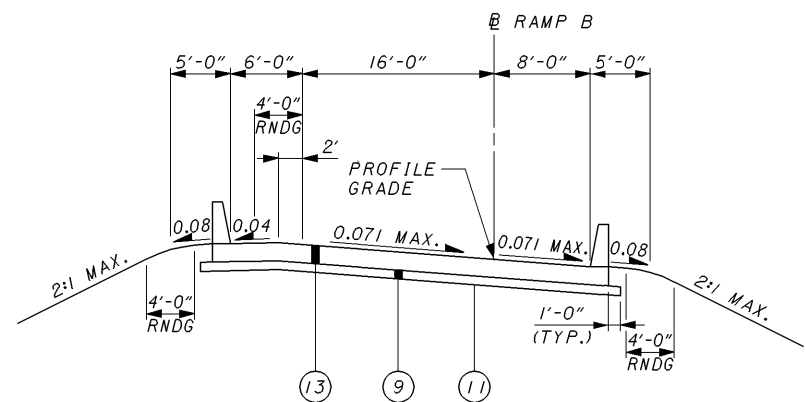
STA. 716+39.45 TO STA. 716+69.45 - 30.00 LF

SCI-823-1357 BRIDGE LIMITS

STA. 719+96.45 TO STA. 720+26.45 - 30.00 LF

NOTES:

1. FOR LEGEND SEE SHEET XX

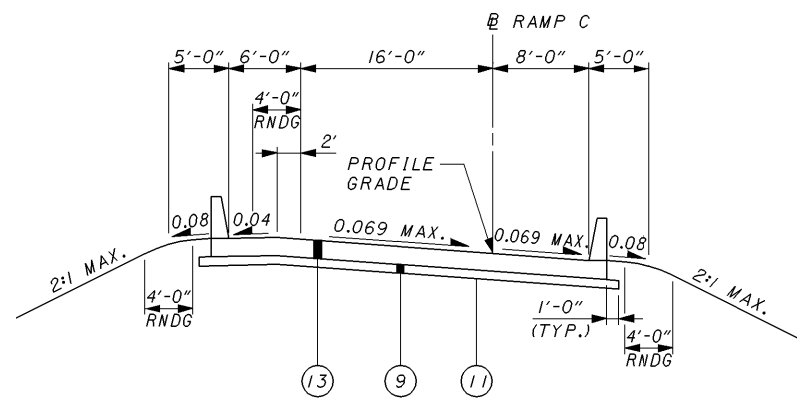


**APPROACH SLAB SECTION - US 23 INTERCHANGE
RAMP B OVER NORFOLK SOUTHERN RR**

STA. 2604+09.75 TO STA. 2604+39.75 = 30.00 LF
SCI-823-1598 BRIDGE LIMITS
STA. 2609+07.25 TO STA. 2609+37.25 = 30.00 LF

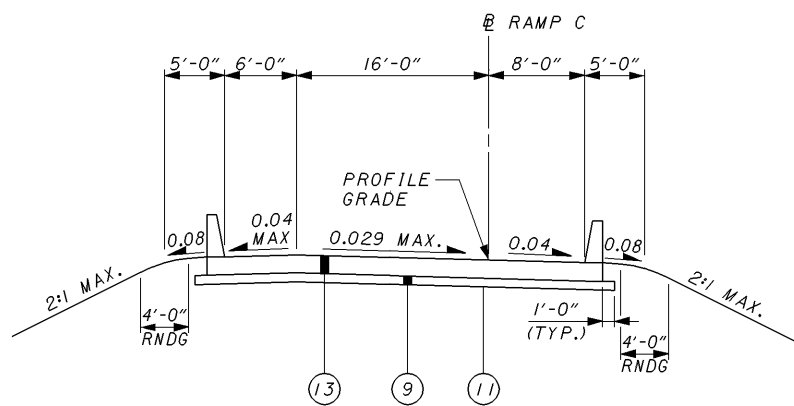
**APPROACH SLAB SECTION - US 23 INTERCHANGE
RAMP B OVER CR 55 (FAIRGROUNDS ROAD)**

STA. 2610+08.59 TO STA. 2610+38.59 = 30.00 LF
SCI-823-1593 BRIDGE LIMITS
STA. 2611+37.61 TO STA. 2611+67.61 = 30.00 LF



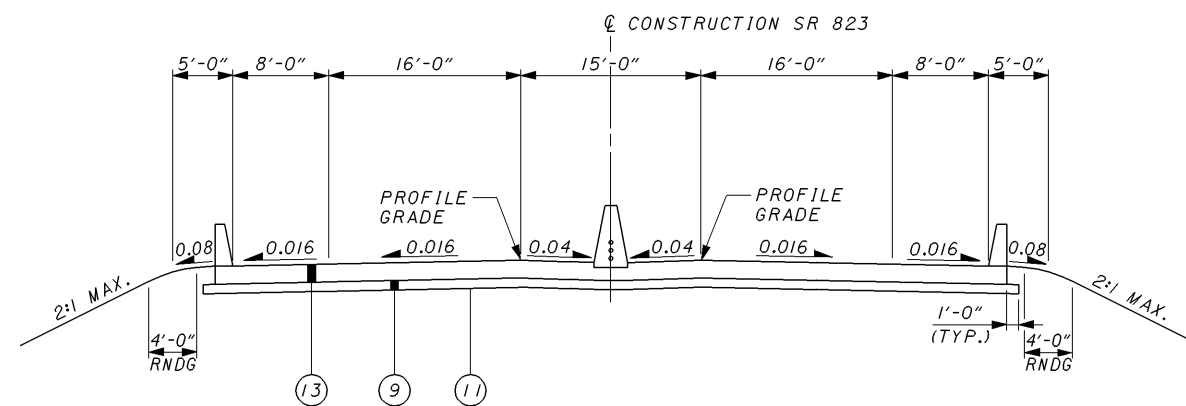
**APPROACH SLAB SECTION - US 23 INTERCHANGE
RAMP C OVER NORFOLK SOUTHERN RR**

STA. 3894+44.75 TO STA. 3894+74.75 = 30.00 LF
SCI-823-1603 BRIDGE LIMITS
STA. 3900+34.25 TO STA. 3900+64.25 = 30.00 LF



**APPROACH SLAB SECTION - US 23 INTERCHANGE
RAMP C OVER CR 55 (FAIRGROUNDS ROAD)**

STA. 3891+59.99 TO STA. 3891+89.99 = 30.00 LF
SCI-823-1595 BRIDGE LIMITS
STA. 3892+96.87 TO STA. 3893+26.87 = 30.00 LF



**APPROACH SLAB SECTION - US 23 INTERCHANGE
SR 823 OVER CR 55 (FAIRGROUNDS ROAD)**

STA. 891+33.58 TO STA. 891+63.58 = 30.00 LF
SCI-823-1594 BRIDGE LIMITS
STA. 892+64.91 TO STA. 892+94.91 = 30.00 LF

**APPROACH SLAB SECTION - US 23 INTERCHANGE
SR 823 OVER US 23**

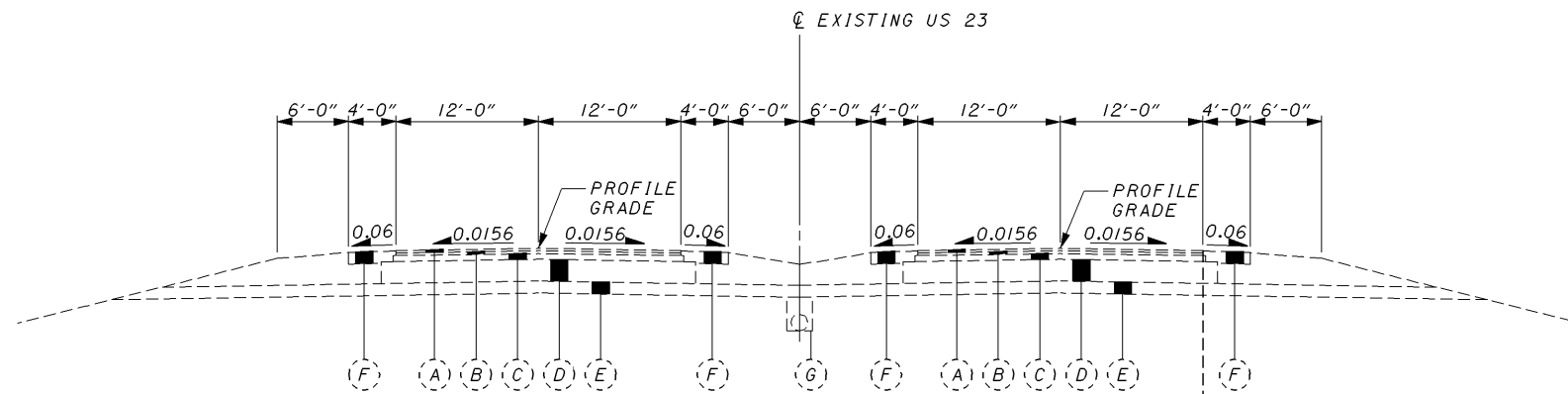
STA. 895+16.86 TO STA. 895+46.86 = 30.00 LF
SCI-823-1601 BRIDGE LIMITS
STA. 899+14.27 TO STA. 899+44.27 = 30.00 LF

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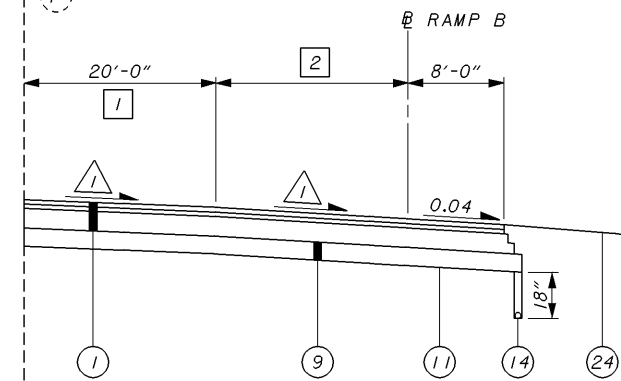
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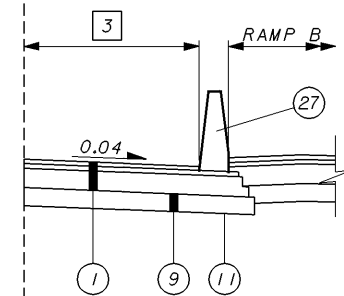
**EXISTING US 23
NORMAL SECTION**

STA. 588+29.74 TO STA. 600+00.00 = 1170.26 LF
 * STA. 600+00.00 TO STA. 608+24.86 = 824.86 LF
 * MEDIAN WIDTH VARIES FROM 20' TO 40'



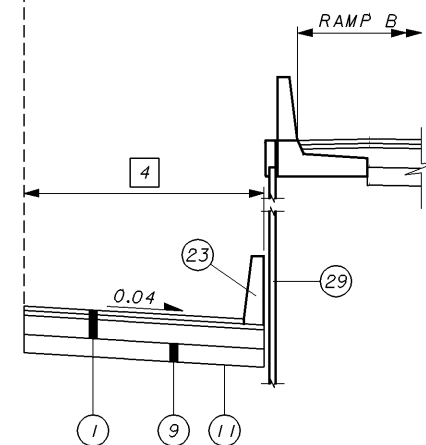
**US 23 INTERCHANGE RAMP B
SPEED CHANGE LANE (DECELERATION)**

RAMP B, US 23 NB TO SR 823 SB
 US 23: STA. 588+05.00 TO STA. 596+16.15



**US 23 SHOULDER WIDENING
AT RAMP B**

US 23: STA. 596+16.15 TO STA. 598+24.52



**US 23 SHOULDER WIDENING
AT RAMP B**

US 23: STA. 598+24.52 TO STA. 604+07.88

EXISTING US 23 LEGEND:

- (A) 1 1/4" ASPHALT CONCRETE SURFACE COURSE
- (B) 1 1/4" ASPHALT CONCRETE INTERMEDIATE COURSE
- (C) 3" ASPHALT CONCRETE BASE COURSE
- (D) 11" CRUSHED AGGREGATE BASE
- (E) 6" SUB-BASE
- (F) 6" STABILIZED SHOULDER
- (G) 6" UNDERDRAIN

NOTES:

1. FOR LEGEND AND BASE STEP DETAIL SEE SHEET XXX.
2. FOR ROADSIDE SECTION SEE SHEET XXX.
3. FOR GUARDRAIL LOCATIONS SEE PLAN SHEETS.
4. FOR ROCK CUT UNDERDRAIN DETAILS SEE SHEET XXX.

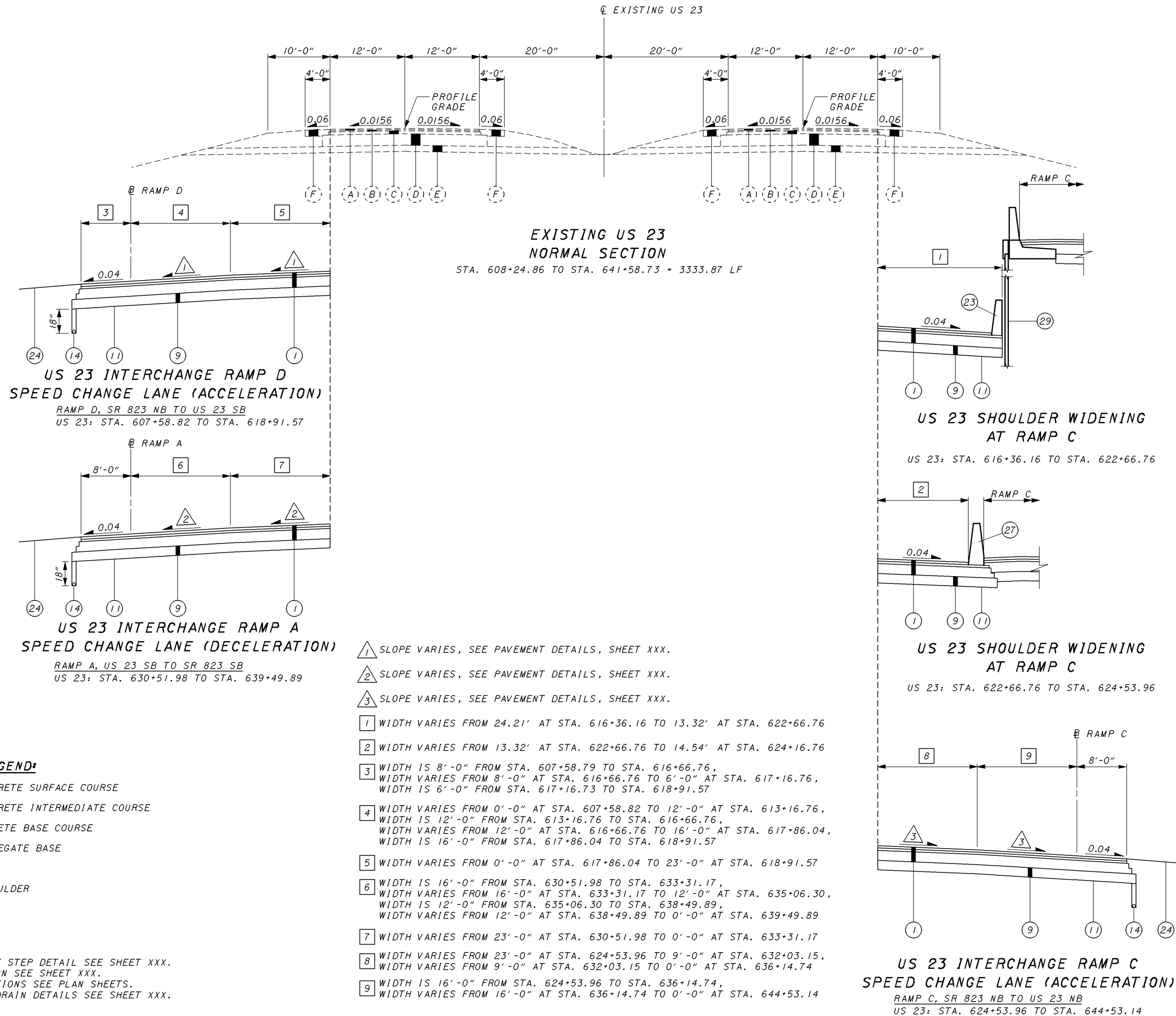
▲ SLOPE VARIES, SEE PAVEMENT DETAILS, SHEET XXX.

- 1 WIDTH VARIES FROM 0'-0" AT STA. 591+63.59 TO 20'-0" AT STA. 595+94.08
- 2 WIDTH VARIES FROM 0'-0" AT STA. 588+05.00 TO 12'-0" AT STA. 589+05.00,
WIDTH IS 12'-0" FROM STA. 589+05.00 TO STA. 589+30.00,
WIDTH VARIES FROM 12'-0" AT STA. 589+30.00 TO 16'-0" AT STA. 591+68.50,
WIDTH IS 16'-0" FROM STA. 591+68.50 TO STA. 596+16.15
- 3 WIDTH VARIES FROM 12.04' AT STA. 596+16.15 TO 13.52' AT STA. 598+24.52
- 4 WIDTH VARIES FROM 13.52' AT STA. 598+24.52 TO 19.52' AT STA. 604+07.88

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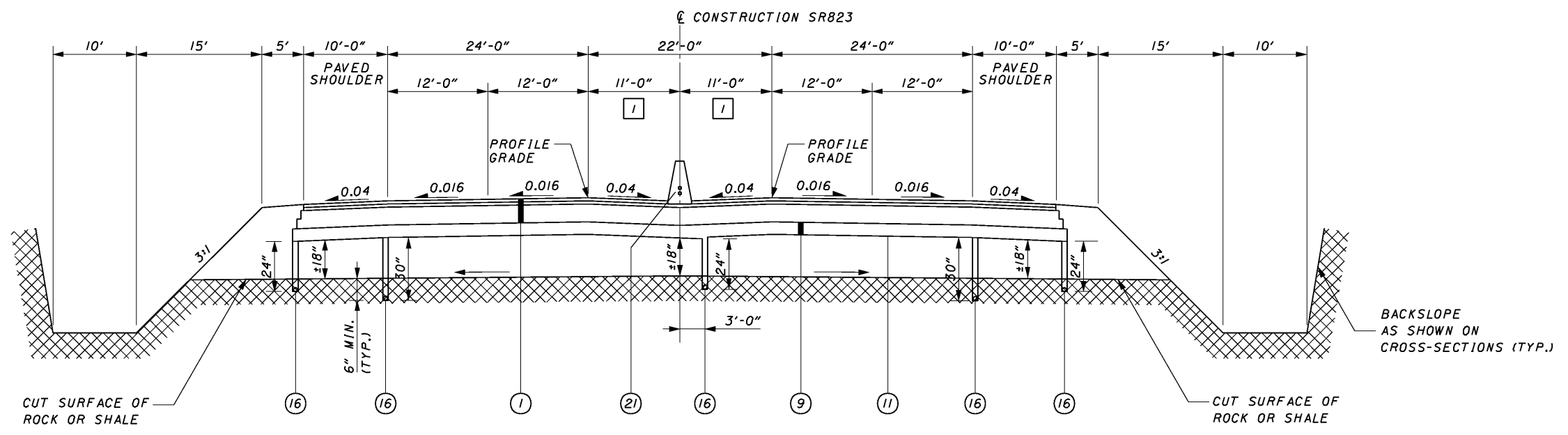
EXISTING US 23 LEGEND:

- (A) 1 1/4" ASPHALT CONCRETE SURFACE COURSE
- (B) 1 1/4" ASPHALT CONCRETE INTERMEDIATE COURSE
- (C) 3" ASPHALT CONCRETE BASE COURSE
- (D) 11" CRUSHED AGGREGATE BASE
- (E) 6" SUB-BASE
- (F) 6" STABILIZED SHOULDER
- (G) 6" UNDERDRAIN

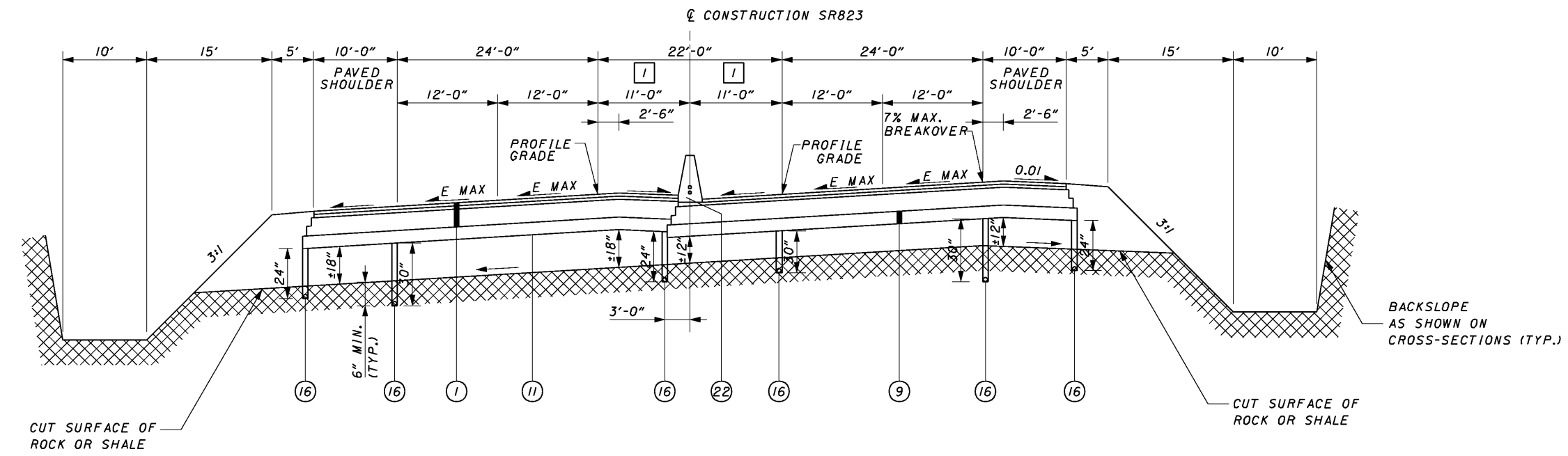
NOTES:

1. FOR LEGEND AND BASE STEP DETAIL SEE SHEET XXX.
2. FOR ROADSIDE SECTION SEE SHEET XXX.
3. FOR GUARDRAIL LOCATIONS SEE PLAN SHEETS.
4. FOR ROCK CUT UNDERDRAIN DETAILS SEE SHEET XXX.

- 1. SLOPE VARIES, SEE PAVEMENT DETAILS, SHEET XXX.
- 2. SLOPE VARIES, SEE PAVEMENT DETAILS, SHEET XXX.
- 3. SLOPE VARIES, SEE PAVEMENT DETAILS, SHEET XXX.
- 1. WIDTH VARIES FROM 24.21' AT STA. 616+36.16 TO 13.32' AT STA. 622+66.76
- 2. WIDTH VARIES FROM 13.32' AT STA. 622+66.76 TO 14.54' AT STA. 624+16.76
- 3. WIDTH IS 8'-0" FROM STA. 607+58.79 TO STA. 616+66.76, WIDTH VARIES FROM 8'-0" AT STA. 616+66.76 TO 6'-0" AT STA. 617+16.76, WIDTH IS 6'-0" FROM STA. 617+16.73 TO STA. 618+91.57
- 4. WIDTH VARIES FROM 0'-0" AT STA. 607+58.82 TO 12'-0" AT STA. 613+16.76, WIDTH IS 12'-0" FROM STA. 613+16.76 TO STA. 616+66.76, WIDTH VARIES FROM 12'-0" AT STA. 616+66.76 TO 16'-0" AT STA. 617+86.04, WIDTH IS 16'-0" FROM STA. 617+86.04 TO STA. 618+91.57
- 5. WIDTH VARIES FROM 0'-0" AT STA. 617+86.04 TO 23'-0" AT STA. 618+91.57
- 6. WIDTH IS 16'-0" FROM STA. 630+51.98 TO STA. 633+31.17, WIDTH VARIES FROM 16'-0" AT STA. 633+31.17 TO 12'-0" AT STA. 635+06.30, WIDTH IS 12'-0" FROM STA. 635+06.30 TO STA. 638+49.89, WIDTH VARIES FROM 12'-0" AT STA. 638+49.89 TO 0'-0" AT STA. 639+49.89
- 7. WIDTH VARIES FROM 23'-0" AT STA. 630+51.98 TO 0'-0" AT STA. 633+31.17
- 8. WIDTH VARIES FROM 23'-0" AT STA. 624+53.96 TO 9'-0" AT STA. 632+03.15, WIDTH VARIES FROM 9'-0" AT STA. 632+03.15 TO 0'-0" AT STA. 636+14.74
- 9. WIDTH IS 16'-0" FROM STA. 624+53.96 TO STA. 636+14.74, WIDTH VARIES FROM 16'-0" AT STA. 636+14.74 TO 0'-0" AT STA. 644+53.14



SR823
TYPICAL ROCK CUT NORMAL SECTION



SR823
TYPICAL ROCK CUT SUPERELEVATION SECTION (OPPOSITE HAND ALSO)

NOTES:

1. FOR LEGEND AND BASE STEP DETAIL SEE SHEET XX

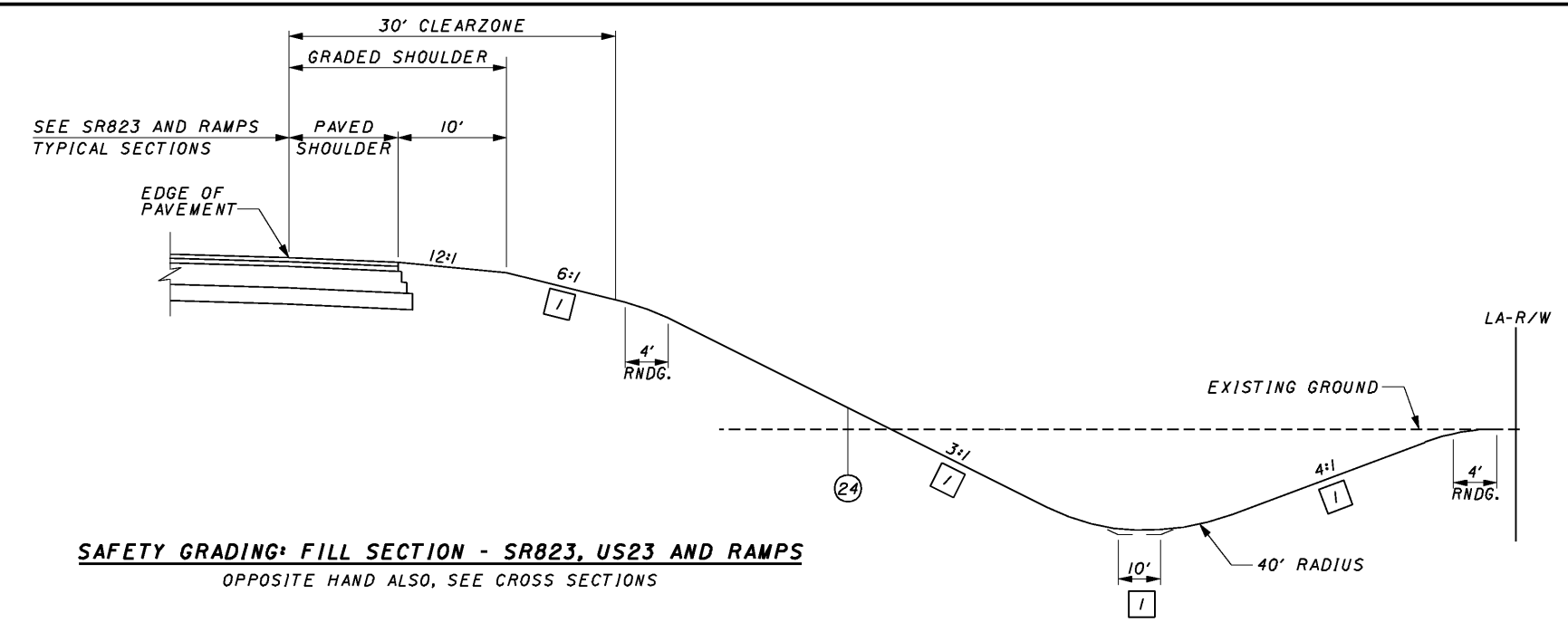
1 FOR MEDIAN WIDTH SEE PLAN SHEETS.

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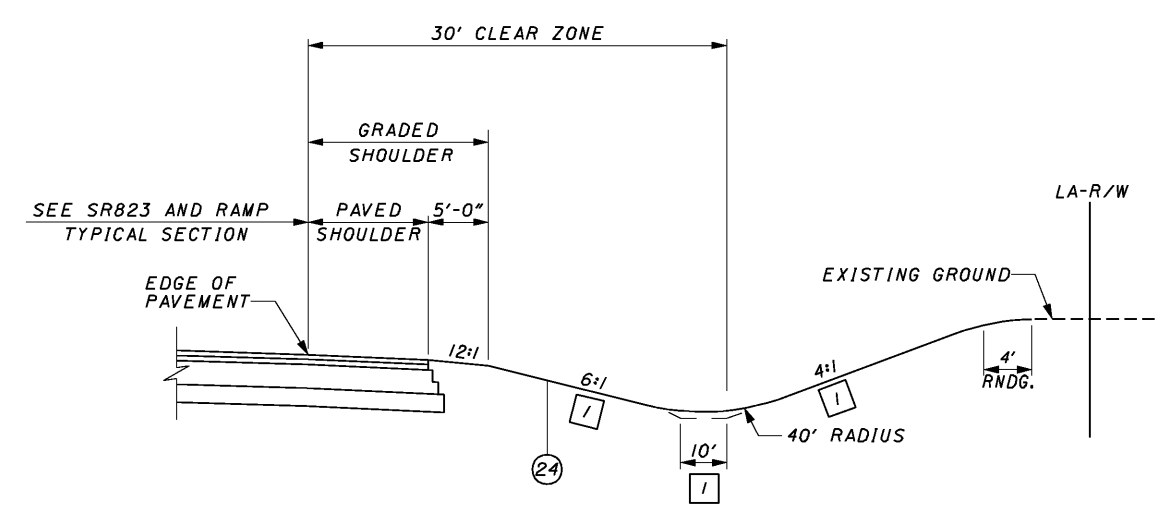
NOTES:

1. FOR LEGEND AND BASE STEP DETAIL SEE SHEET XX
2. FOR GUARDRAIL LOCATIONS SEE PLAN SHEETS
3. FOR ROCK CUT UNDERDRAIN DETAILS SEE SHEET XXX.

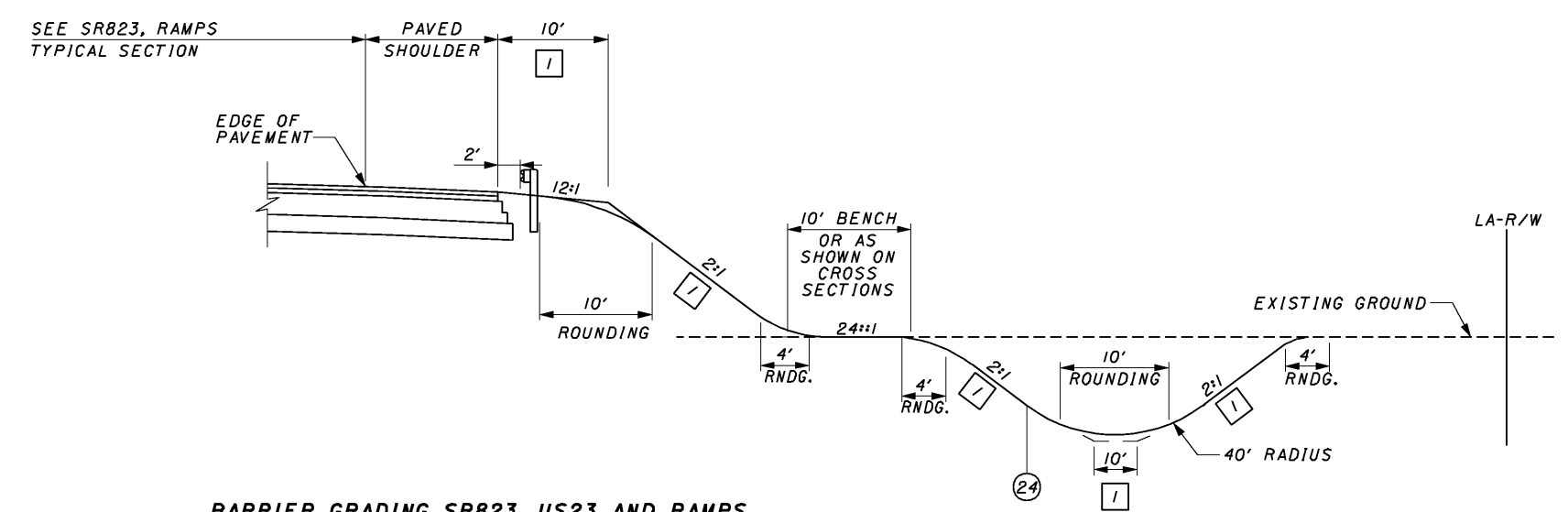
1 OR AS SHOWN ON CROSS SECTIONS.



SAFETY GRADING: FILL SECTION - SR823, US23 AND RAMPS
OPPOSITE HAND ALSO, SEE CROSS SECTIONS

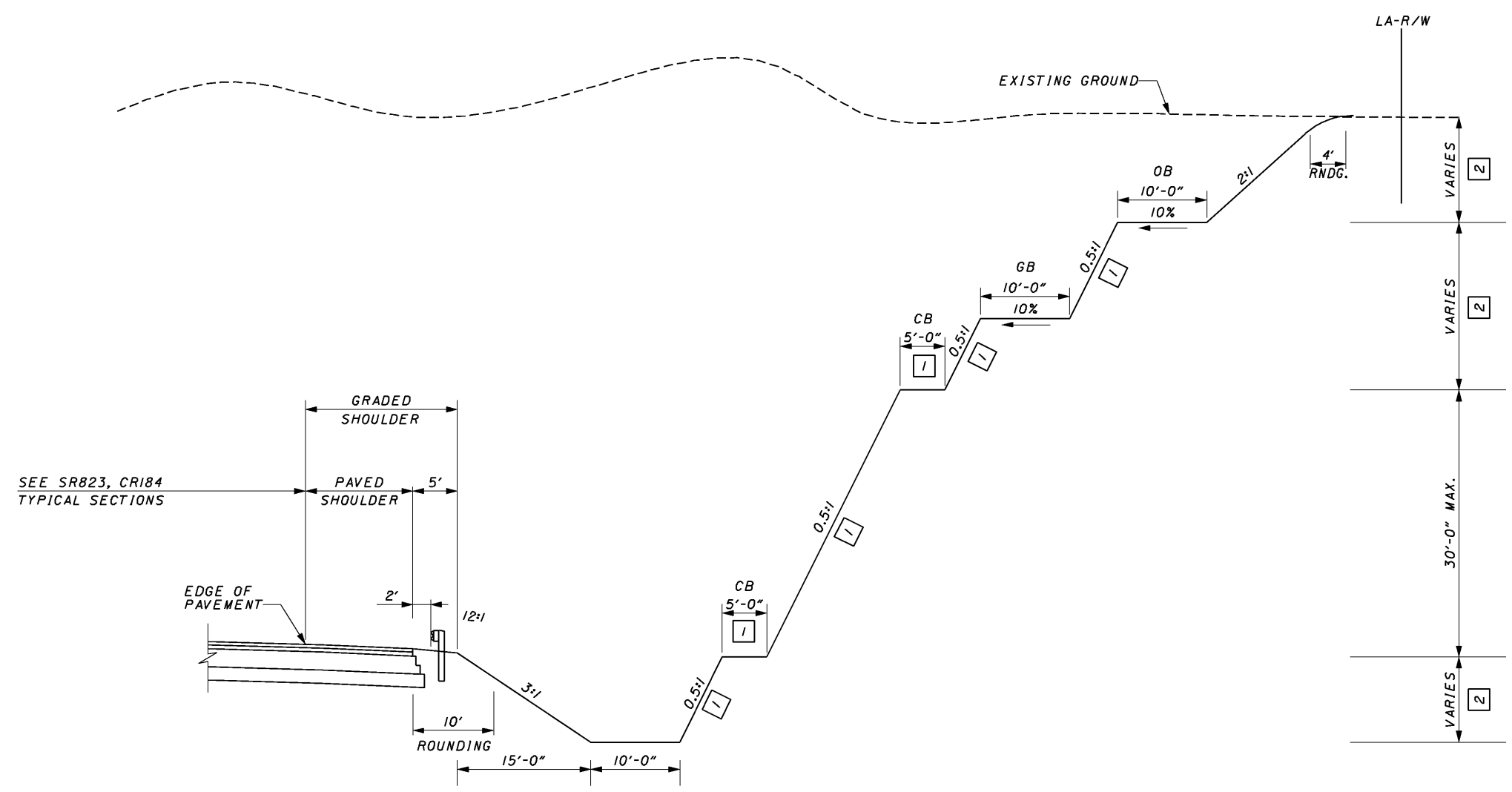


SAFETY GRADING CUT SECTION - SR823, US23 AND RAMPS
OPPOSITE HAND ALSO, SEE CROSS SECTIONS



BARRIER GRADING SR823, US23 AND RAMPS
OPPOSITE HAND ALSO, SEE CROSS SECTIONS

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- 1 OR AS SHOWN ON CROSS SECTIONS.
- 2 SEE CROSS SECTIONS

ROCK CATCHMENT SECTION -SR823 AND CR184
OPPOSITE HAND ALSO, SEE CROSS SECTIONS

NOTES:

1. FOR LEGEND AND BASE STEP DETAIL SEE SHEET XX
2. FOR GUARDRAIL LOCATIONS SEE PLAN SHEETS
3. FOR ROCK UNDERDRAIN DETAILS SEE SHEET XXX.

OB - OVERBURDEN BENCH

CONSTRUCT OVERBURDEN BENCH AS SHOWN ON THE CROSS-SECTIONS UNLESS BEDROCK IS ENCOUNTERED DEEPER OR SHALLOWER THAN THE ELEVATION AS SHOWN ON THE CROSS-SECTIONS, IN WHICH CASE CONSTRUCT THE BENCH AS DIRECTED BY THE ENGINEER.

GB - GEOTECHNICAL BENCH

CONSTRUCT GEOTECHNICAL BENCH AS SHOWN ON THE CROSS-SECTIONS. THE ENGINEER MAY ADJUST THE VERTICAL LOCATION DEPENDING ON THE BEDROCK INTERFACE.

CB - CONSTRUCTION BENCH

IN THE FIELD THE ENGINEER MAY ELIMINATE THE CONSTRUCTION BENCH OR MODIFY THE BENCH WIDTH AND ELEVATION TO ACCOMMODATE THE CONSTRUCTION PROCESS.

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ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

COLUMBIA GAS OF OHIO
TIFFANY WOODYARD
843 PIATT AVENUE
CHILlicoTHE, OHIO 45601

AMERICAN ELECTRIC POWER
TINA HAIRSTON
700 MORRISON ROAD
GAHANNA, OHIO 43230

AMERICAN ELECTRIC POWER
ROBERT IVINSKAS
850 TECH CENTER DRIVE
GAHANNA, OHIO 43230

MINFORD TELEPHONE COMPANY
PAULA MCGRAW
PO BOX 181
MINFORD, OHIO 45653

ADELPHIA
JERRY CLARK
443 EAST MAIN STREET
CHILlicoTHE, OHIO 45601

SCIOTO WATER, INC.
JEFF SPRADLIN
PO BOX 453
WHEELERSBURG, OHIO 45694

SPRINT COMMUNICATIONS, INC.
DANA T. COSTA JR.
11815 HIGHWAY DRIVE
SUITE 400
CINCINNATI, OHIO 45241

TENNESSEE GAS PIPELINE COMPANY
MARK ERVIN
2335 US 50 WEST
ALBANY, OHIO 45710

TEXAS EASTERN TRANSMISSION CORPORATION
TIM RAMEY
3096 STATE ROUTE 522
WHEELERSBURG, OHIO 45694

TIME WARNER CABLE
STEVE GEHRING
11315 REED HARTMAN HIGHWAY
CINCINNATI, OHIO 45242

CITY OF PORTSMOUTH
JUANITA JEWETT
728 SECOND STREET
ROOM 25
PORTSMOUTH, OHIO 45662

OHIO OIL GATHERING CORPORATION
BOB MORAN
PO BOX 377
FRAZEYSBURG, OHIO 43822

AMERICAN ELECTRIC POWER
JOHN C. COOKMAN
700 MORRISON AVENUE
GAHANNA, OHIO 43230

VERIZON
PAUL MONTAVON
1315 ALBERT STREET
PORTSMOUTH, OHIO 45662

SCIOTO COUNTY SANITARY ENGINEERING
JOE DELONG
602 SEVENTH STREET
ROOM 104 COURT HOUSE
PORTSMOUTH, OHIO 45662

SCIOTO COUNTY REGIONAL WATER DISTRICT NO. 1
JIM MEYERS
PO BOX 310
LUCASVILLE, OHIO 45648

CITY OF PORTSMOUTH DIVISION OF WATER
MARK ADAMS
782 SECOND STREET
PORTSMOUTH, OHIO 45662

PIKE NATURAL GAS COMPANY
TOM MYERS
114 BOWERS AVENUE
HILLSBORO, OHIO 45133

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON NAD83 HORIZONTAL DATUM AND NAVD83 VERTICAL DATUM.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT OF WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS) A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRICT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE CONSTRUCTION LIMITS ARE IDENTIFIED AS 30 FEET FROM THE EDGE OF PAVEMENT.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. EXCEPT AS INDICATED ON SHEET USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS AS DEFINED ABOVE WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN 203.05. NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF 203.05.

ITEM 880 - ASPHALT CONCRETE WITH WARRANTY

INDIVIDUAL LIFT THICKNESSES AND STEP WIDTHS SHOWN IN THE PLAN ARE THE PLAN LINES AND DIMENSIONS USED FOR QUANTITY CALCULATION. THEY ARE NOT THE REQUIRED LIFTS OR STEPS FOR ACTUAL CONSTRUCTION BUT NO ADJUSTMENT WILL BE MADE TO THE PLAN QUANTITY DUE TO DIFFERENT LIFT THICKNESSES AND/OR STEP WIDTHS WHEN A UNIFORM THICKNESS IS SPECIFIED.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEMS.

CALCULATED
AB
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GENERAL NOTES

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EMBANKMENT DRAINAGE LAYER

ALL EMBANKMENTS AND SIDE HILL FILLS SHALL HAVE A DRAINAGE LAYER IN THE LOWER PORTION OF THE FILL. THIS DRAINAGE LAYER SHALL CONSIST OF A MINIMUM OF SIX FEET OF FREE-DRAINING, DURABLE, ROCK FILL AS DEFINED IN ODOT CMS ITEM 203.06.C AND ITEM 703.16.C.

UNKNOWN SPRINGS OR SEEPS

IF SPRINGS OR SEEPS ARE ENCOUNTERED DURING CONSTRUCTION, THE FLOW SHALL BE COLLECTED WITHIN THE EMBANKMENT DRAINAGE LAYER OR DIRECTED TO THE EMBANKMENT DRAINAGE LAYER WITH A DITCH OR A TRENCH DRAIN. A TYPICAL TRENCH DRAIN SHALL BE A MINIMUM OF ONE FOOT IN WIDTH, WITH A DEPTH AND GRADE SUITABLE FOR POSITIVE DRAINAGE. SIX INCHES OF CONCRETE SAND (ODOT ITEM 703.02) SHALL BE PLACED IN THE BOTTOM OF THE TRENCH, THEN A 6-INCH DIAMETER, FABRIC-WRAPPED, PERFORATED PVC PIPE SHALL BE PLACED ON TOP OF THE SAND. THE TRENCH SHALL THEN BE BACKFILLED TO THE SURFACE WITH CONCRETE SAND.

PONDS

ALL PONDS THAT LIE WITHIN THE FOOTPRINT OF A PLANNED EMBANKMENT SHALL BE DRAINED, AND ALL "MUCK" AND UNSUITABLE MATERIAL REMOVED. PONDS MAY REQUIRE BENCHING AS SET FORTH IN 203.05 OR PLACEMENT OF A SPRING OR SEEP DRAIN PRIOR TO EMBANKMENT FILL PLACEMENT

SPRING DRAINS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR DRAINING ANY SPRINGS SHOWN IN THE PLAN OR ENCOUNTERED DURING CONSTRUCTION. THE FOLLOWING TYPES OF PIPES MAY BE USED: 707.33, 707.41, 707.42 OR 707.45 PERFORATED PER 707.31.

SPRING DRAINS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD CONSTRUCTION DRAWING DM-1.1 AND PAID FOR AT THE CONTRACT PRICE FOR:

605, 6" UNCLASSIFIED PIPE UNDERDRAINS FOR SPRINGS

605, AGGREGATE DRAINS FOR SPRINGS

604, PRECAST REINFORCED CONCRETE OUTLET

ITEM 606 - CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A "W-BEAM RAIL SPLICE" AS SHOWN IN AASHTO M 180. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

ITEM 606 - ANCHOR ASSEMBLY, TYPE B-98

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING EITHER OF THE FOLLOWING GUARDRAIL END TERMINALS.

1) THE SRT-350, GUARDRAIL END TERMINAL AS MANUFACTURED BY TRINITY INDUSTRY, 1170 N. STATE STREET, GIRARD, OHIO 44420 (TELEPHONE: 330-545-4373).

THE LENGTH OF THE SRT-350 SYSTEM IS CONSIDERED TO BE 37'-6", INCLUSIVE OF THREE 12'-6" LONG RAIL ELEMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. NO.	DRAWING NAME	DWG./ REV.	ODOT APPROVAL DATE
SS444	SLOTTED RAIL TERMINAL POST LAYOUT AND		7/12/99 8/27/99
SS444M	ERECTION DETAILS SRT-350 (12.5, 8 POST)	Rev. 1	7/12/99
SS425M	SLOTTED RAIL TERMINAL SRT-350 POST LAYOUT AND ERECTION DETAILS (12.5, 9 POST)		6/21/97 3/6/98

2) THE FLEAT-350 MANUFACTURED BY ROAD SYSTEMS, INC., 2516 MALLORY LANE, STOW, OHIO, 44224, (TELEPHONE: 330-346-0721).

THE LENGTH OF THE FLEAT-350 IS CONSIDERED TO BE 37'-6", INCLUSIVE OF THREE 12'-6" LONG RAIL ELEMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. NO.	DRAWING NAME	DWG./ REV.	ODOT APPROVAL DATE
FLT-M	FLARED ENERGY ABSORBING TERMINAL (FLEAT-350) ASSEMBLY		4/16/98 7/31/98

REFER TO THE MANUFACTURER'S INSTRUCTION REGARDING THE INSTALLATION OF, AND THE GRADING AROUND, THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4-INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 27-3/4-INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

THE FACE OF THE TYPE B-98 IMPACT HEAD SHALL BE COVERED WITH TYPE G REFLECTIVE SHEETING, PER CMS 730.19: APPROXIMATELY 36" W X 12" H FOR THE SRT-350 AND 14" W X 20" H FOR THE FLEAT.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT

PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, TYPE B-98, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING REFLECTIVE SHEETING AND ALL RELATED HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 606 - ANCHOR ASSEMBLY, TYPE E-98

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING EITHER OF THE FOLLOWING GUARDRAIL END TERMINALS.

1) THE ET-2000 (1997) MANUFACTURED BY TRINITY INDUSTRY, 1170 N. STATE STREET, GIRARD, OHIO 44420 (TELEPHONE: 330-545-4373).

THE LENGTH OF THE ET-2000 (1997) SYSTEM IS CONSIDERED TO BE 50'-0", INCLUSIVE OF TWO 25'-0" LONG RAIL ELEMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. NO.	DRAWING NAME	DWG./ REV.	ODOT APPROVAL DATE
SSS265M	ET-2000 (1997) PLAN, ELEVATION AND SECTIONS		6/20/97 3/6/98
SSI42	ET2000 PLUS 50'-0" PLAN, ELEVATION AND SECTION 25'-0" RAIL, SLEEVE W/PL POSTS 1-4		4/12/00 7/31/00
SSI41	ET2000 PLUS PLAN, ELEVATION AND SECTION 25'-0" RAIL, HBA POSTS 1-4		2/29/00 7/31/00
SSI58	ET2000 PLUS 50'-0" WITH 12'-6" PANELS AND HBA POSTS 1-4 PLAN, ELEVATION AND SECTION		5/22/00 7/31/00

2) THE SKT-350 MANUFACTURED BY ROAD SYSTEMS, INC., 2516 MALLORY LANE, STOW, OHIO, 44224, (TELEPHONE: 330-346-0721).

THE LENGTH OF THE SKT-350 SYSTEM IS CONSIDERED TO BE 50'-0", INCLUSIVE OF FOUR 12'-6" LONG RAIL ELEMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. NO.	DRAWING NAME	DWG./ REV.	ODOT APPROVAL DATE
SKT-4M	SEQUENTIAL KINKING TERMINAL (SKT-350) ASSEMBLY WITH 4 FOUNDATION TUBES		12/11/97 3/6/98

THE FACE OF THE TYPE E-98 IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19,

REFER TO THE MANUFACTURER'S INSTRUCTION REGARDING THE INSTALLATION OF, AND THE GRADING AROUND, THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4-INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 27-3/4-INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4-INCHES ABOVE THE GROUND LINE.

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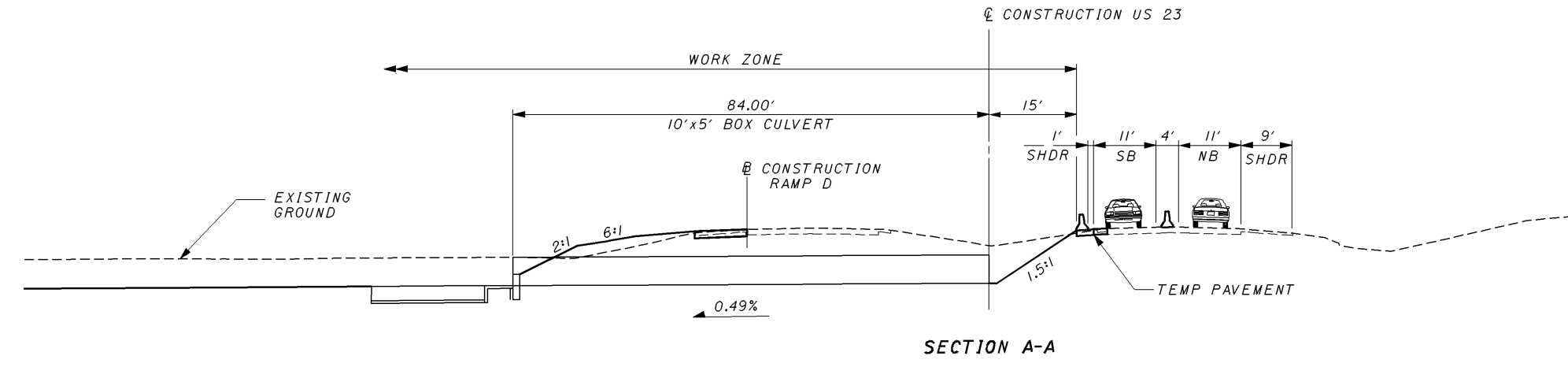
PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, TYPE E-98, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.



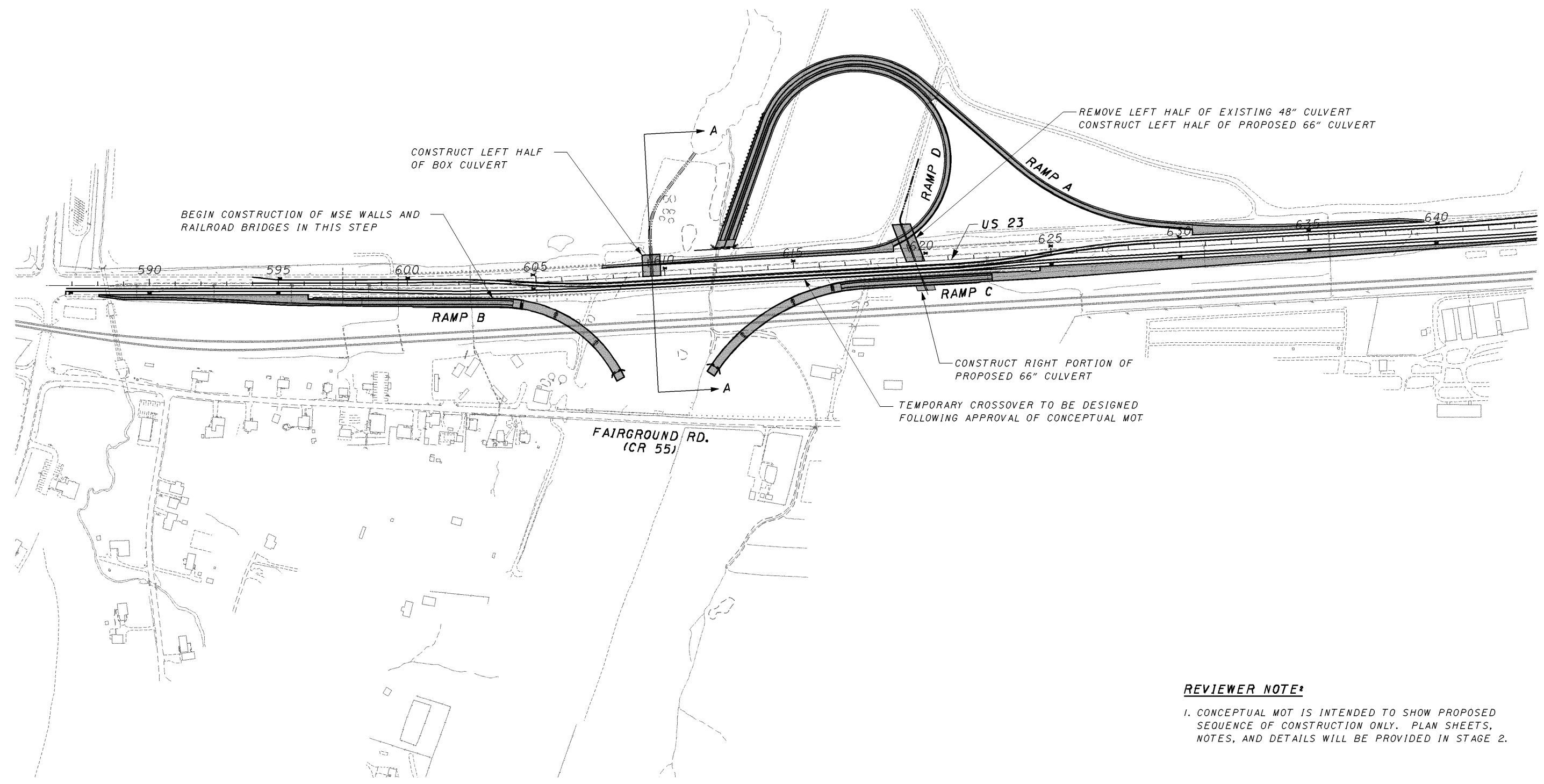
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MRP
CHECKED
MJH

**MAINTENANCE OF TRAFFIC
SCHEMATIC PLAN - PHASE 1, STEP 1**

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SECTION A-A



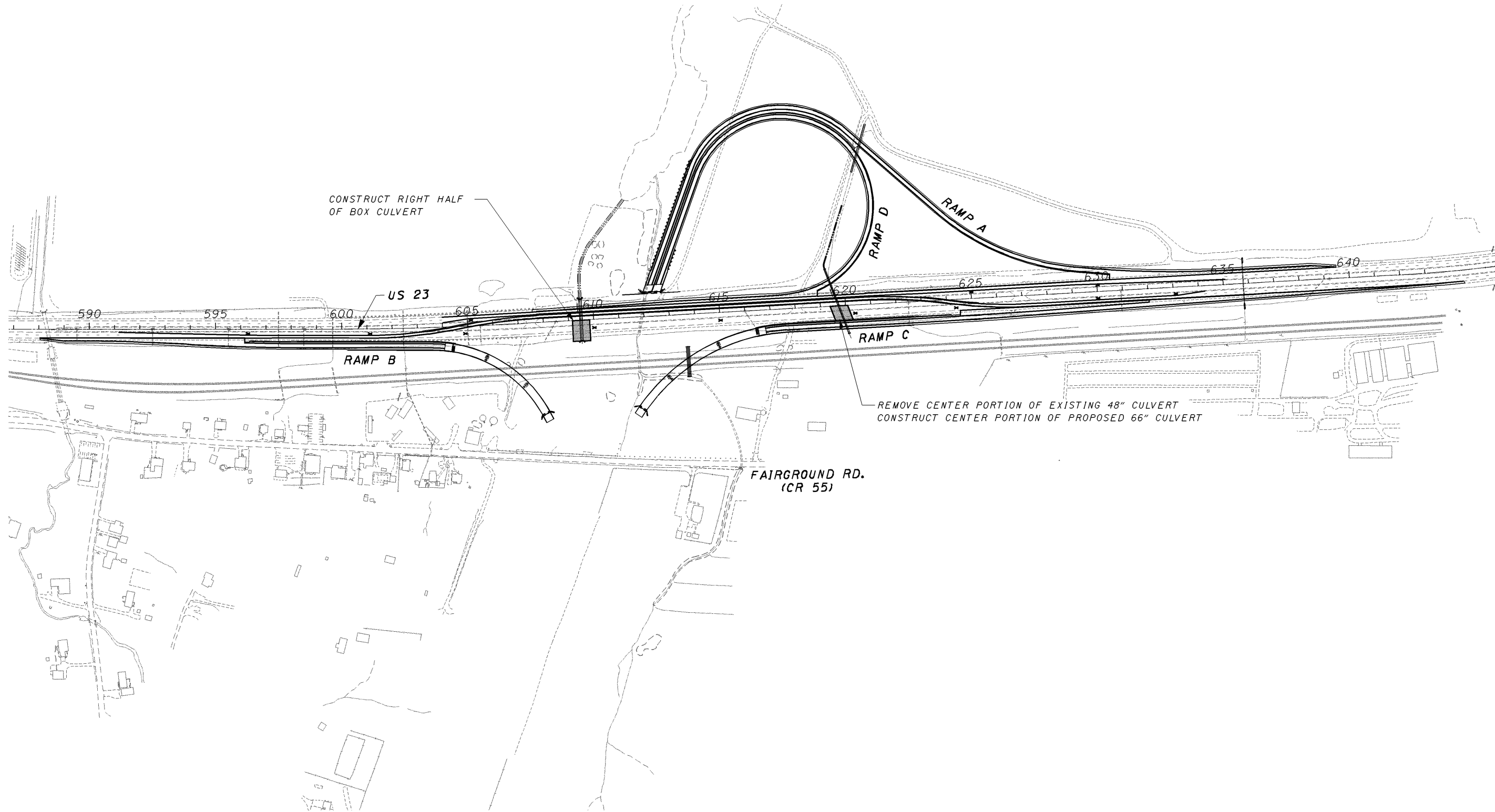
REVIEWER NOTE:

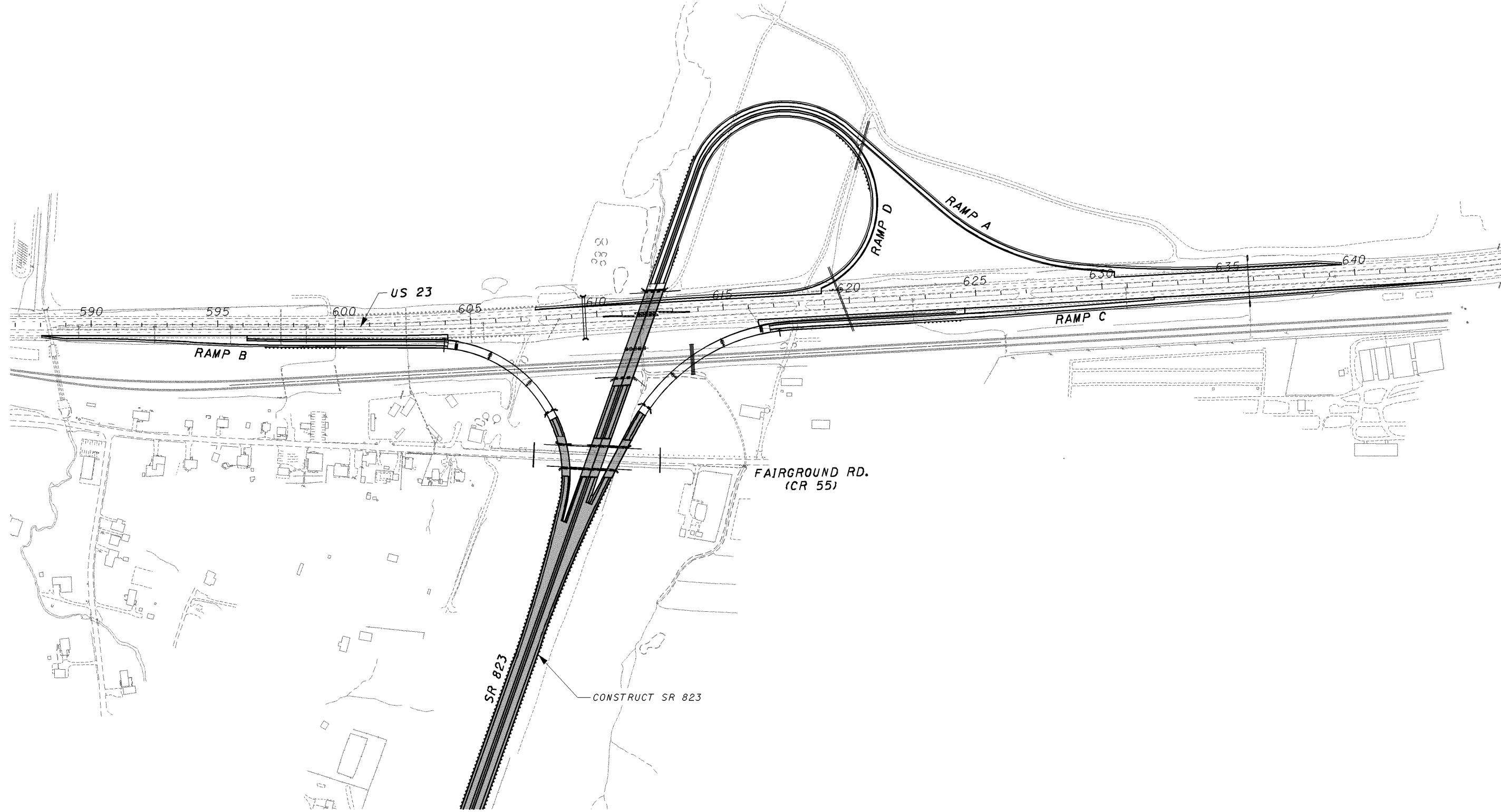
1. CONCEPTUAL MOT IS INTENDED TO SHOW PROPOSED SEQUENCE OF CONSTRUCTION ONLY. PLAN SHEETS, NOTES, AND DETAILS WILL BE PROVIDED IN STAGE 2.

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**MAINTENANCE OF TRAFFIC
SCHEMATIC PLAN - PHASE 2**

SCI-823-10.13

07-0477.000
STATE OF OHIO

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	DRAINAGE PROFILES
	CULVERT DETAILS
	PLAN CR28
	PAVEMENT ELEVATION DETAIL

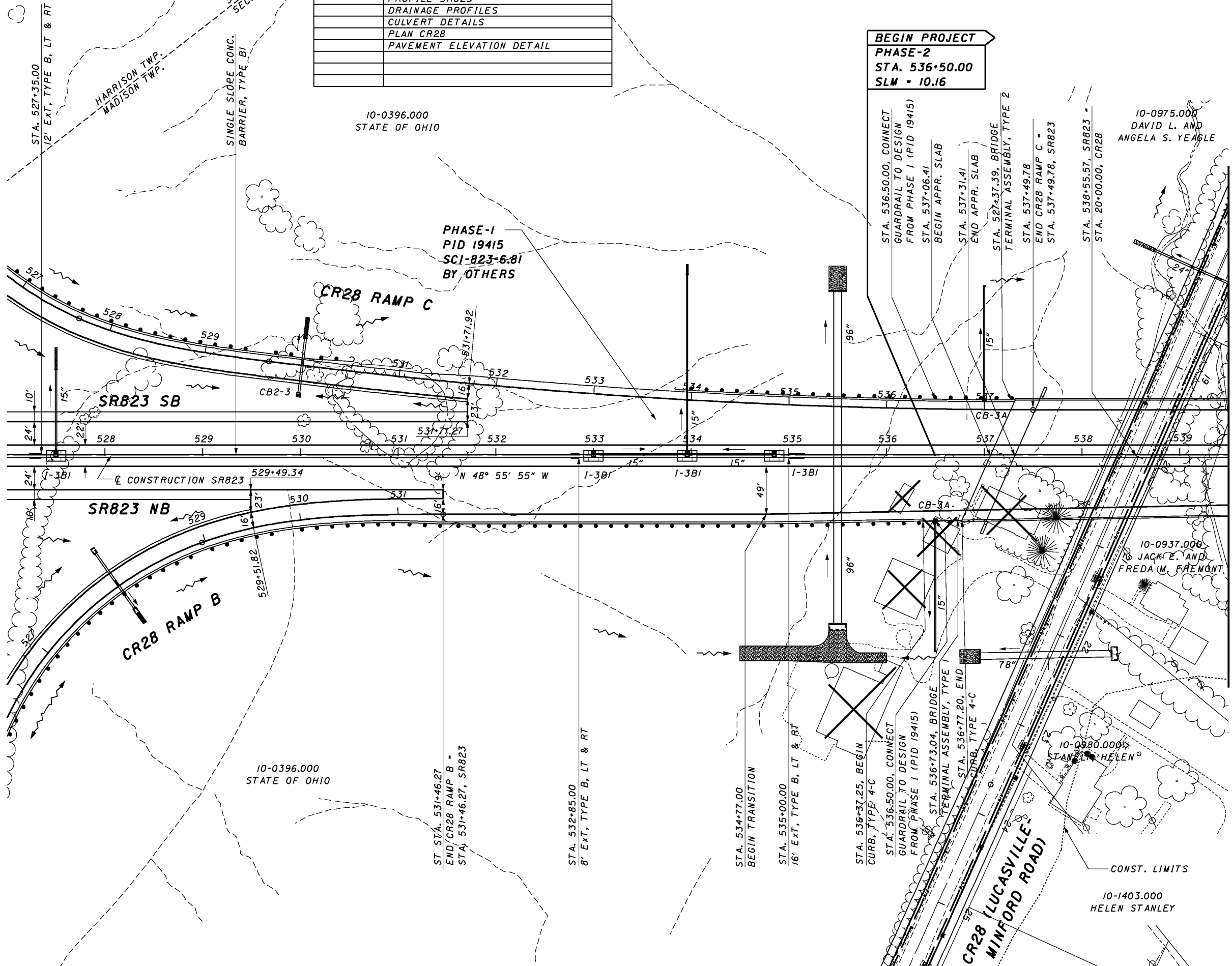
10-0396.000
STATE OF OHIO

PHASE-I
PID 19415
SCI-823-6.81
BY OTHERS

BEGIN PROJECT
PHASE-2
STA. 536+50.00
SLM = 10.16

10-0975.000
DAVID L. AND
ANGELA S. YEAGLE

CR28 (LUCASVILLE-
MINFORD ROAD)



10-0396.000
STATE OF OHIO

ST. STA. 531+46.27
END CR28 RAMP B -
STA. 531+46.27, SR823

STA. 532+85.00
8' EXT, TYPE B, LT & RT

STA. 534+77.00
BEGIN TRANSITION

STA. 535+00.00
16' EXT, TYPE B, LT & RT

STA. 536+25.00, BEGIN
CURB, TYPE 4-C

STA. 536-50.00, CONNECT
GUARDRAIL TO DESIGN
FROM PHASE I (PID 19415)

STA. 536+73.04, BRIDGE
TERMINAL ASSEMBLY, TYPE 1

STA. 536+77.20, END
CURB, TYPE 4-C

CONST. LIMITS

10-1403.000
HELEN STANLEY

MATCH LINE STA. 539+50 SR823



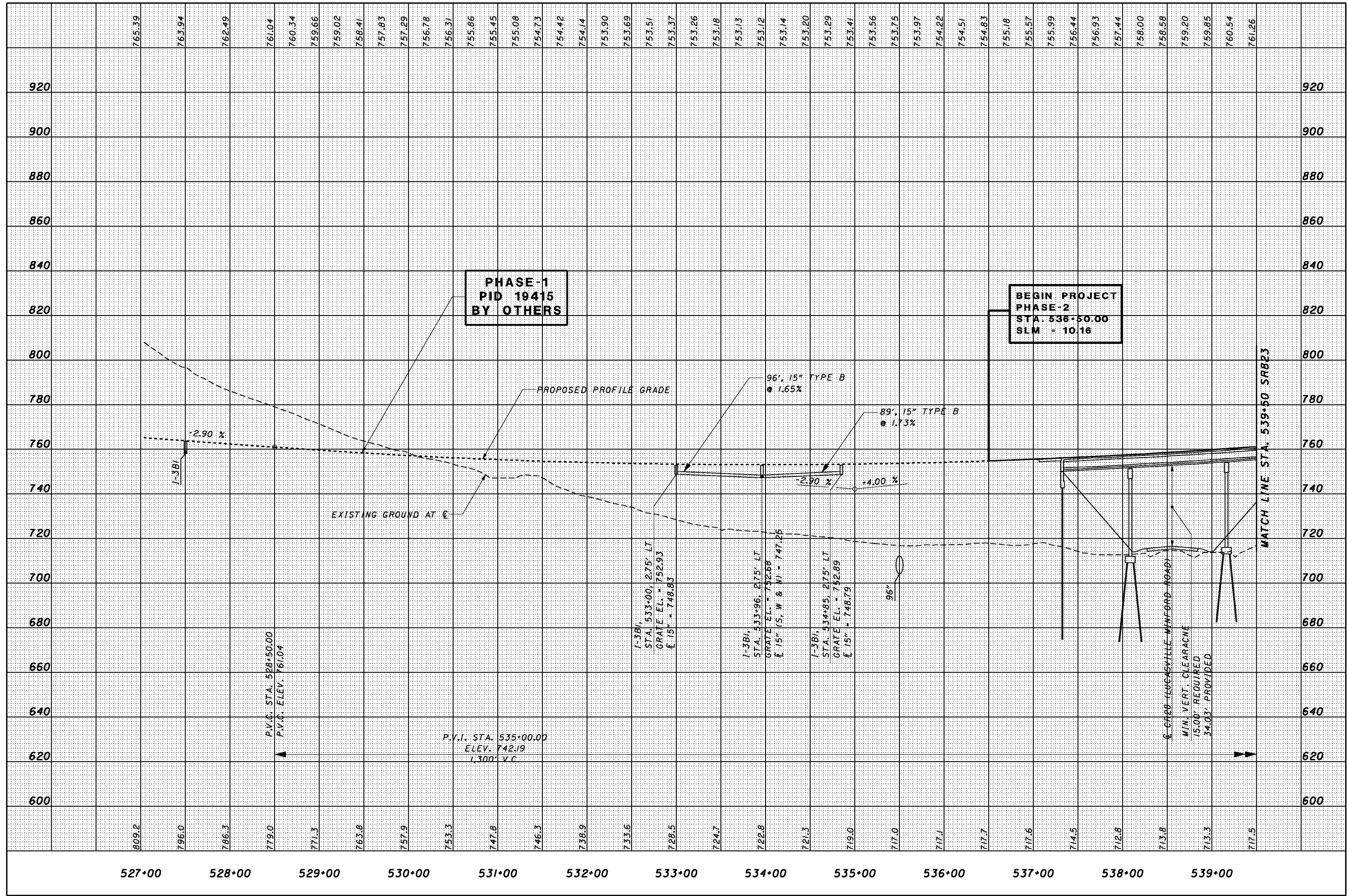
CALCULATED DL/CAS
CHECKED RN

PLAN - SR823
STA. 527+00.00 TO STA. 539+50.00

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37

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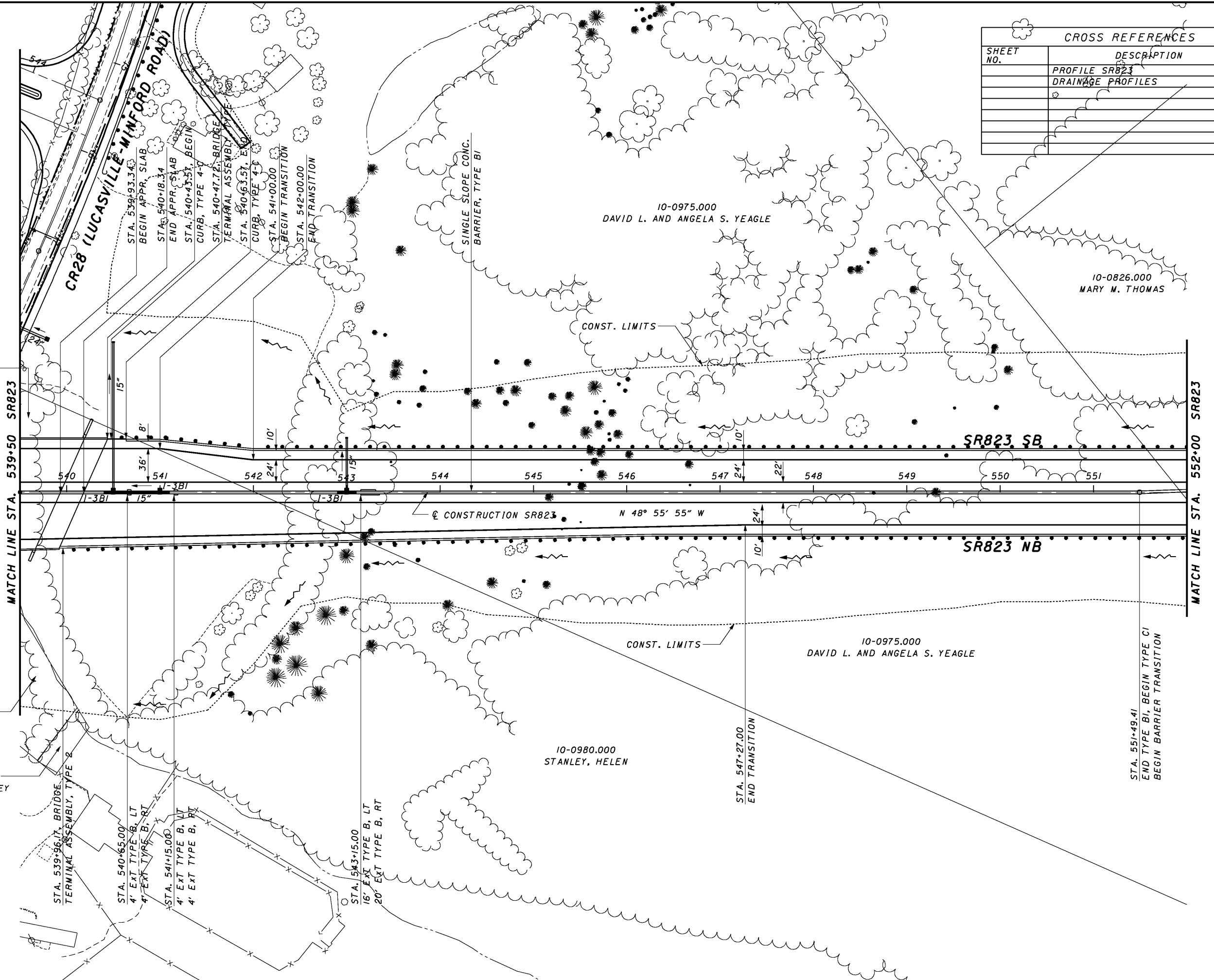
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PROFILE - SR823
STA. 527+00 TO STA. 539+50

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CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	DRAINAGE PROFILES



10-0980.000
STANLEY, HELEN

10-0937.000
JACK E. AND
FREDA M.
FREMONT

10-0979.000
HELEN STANLEY

10-0975.000
DAVID L. AND ANGELA S. YEAGLE

10-0826.000
MARY M. THOMAS

10-0975.000
DAVID L. AND ANGELA S. YEAGLE

10-0980.000
STANLEY, HELEN

MATCH LINE STA. 539+50 SR823

MATCH LINE STA. 552+00 SR823

STA. 539+96.17, BRIDGE
TERMINAL ASSEMBLY, TYPE B

STA. 540+65.00
4' EXT TYPE B, LT
4' EXT TYPE B, RT

STA. 541+15.00
4' EXT TYPE B, LT
4' EXT TYPE B, RT

STA. 543+15.00
16' EXT TYPE B, LT
20' EXT TYPE B, RT

STA. 539+93.34
BEGIN APPR. SLAB

STA. 540+18.34
END APPR. SLAB

STA. 540+43.51, BEGIN
CURB, TYPE 4-C

STA. 540+47.72, BRIDGE
TERMINAL ASSEMBLY, TYPE B

STA. 540+63.57, END
CURB, TYPE 4-C

STA. 541+00.00
BEGIN TRANSITION

STA. 542+00.00
END TRANSITION

SINGLE SLOPE CONC.
BARRIER, TYPE B1

CONST. LIMITS

CONSTRUCTION SR823
N 48° 55' 55" W

CONST. LIMITS

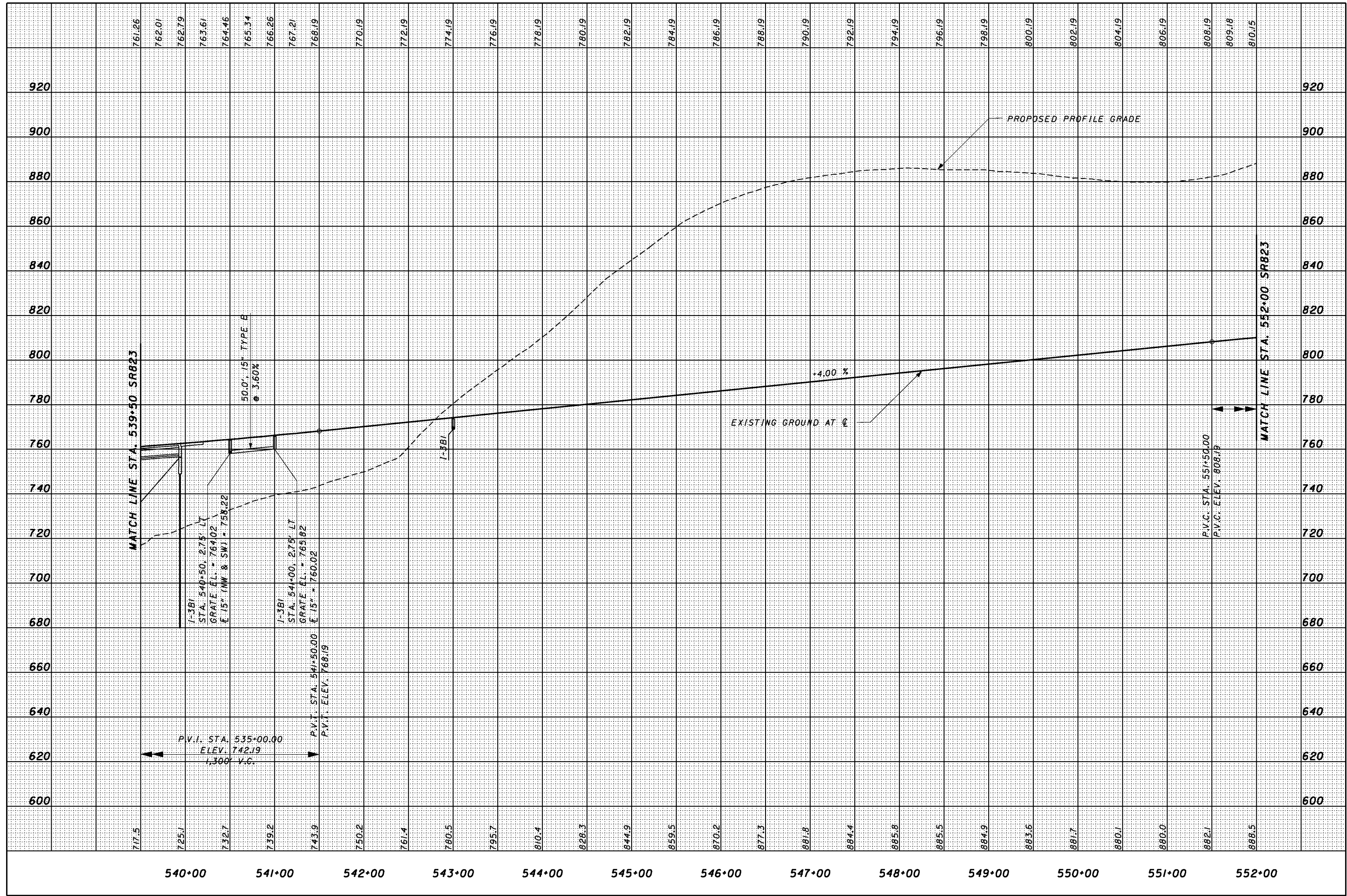
STA. 547+27.00
END TRANSITION

STA. 551+49.41
END TYPE B1, BEGIN TYPE C1
BEGIN BARRIER TRANSITION

PLAN - SR823
STA. 539+50.00 TO STA. 552+00.00

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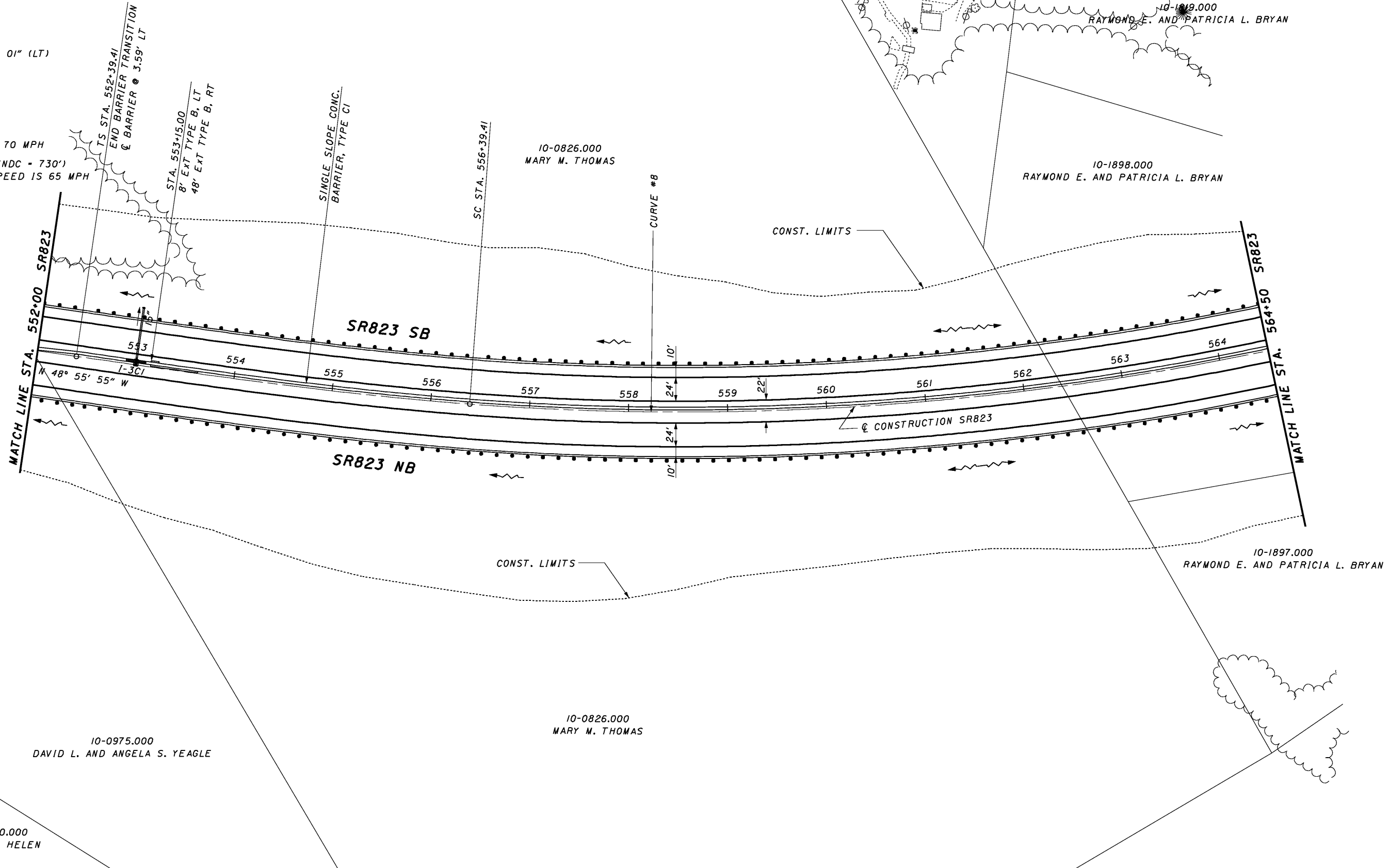
**PROFILE - SR823
STA. 539+50 TO STA. 552+00**

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CURVE # 8

P.I. STA. = 565+19.92
 DELTA = 4° 18' 01" (LT)
 Dc = 2° 00' 00"
 R = 2,864.79'
 Ls = 400.00'
 Theta = 4° 00' 00" (LT)
 LT = 266.73'
 ST = 133.40'
 x = 399.81'
 y = 9.31'
 k = 199.97'
 p = 2.33'
 DELTA_c = 33° 18' 01" (LT)
 Lc = 1,665.01'
 Tc = 856.76'
 Ts = 1,280.51'
 Es = 199.18'
 Emax. = 0.065
 DESIGN SPEED = 70 MPH
 HSSD = 663' (NDC = 730')
 ACTUAL DESIGN SPEED IS 65 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	DRAINAGE PROFILES



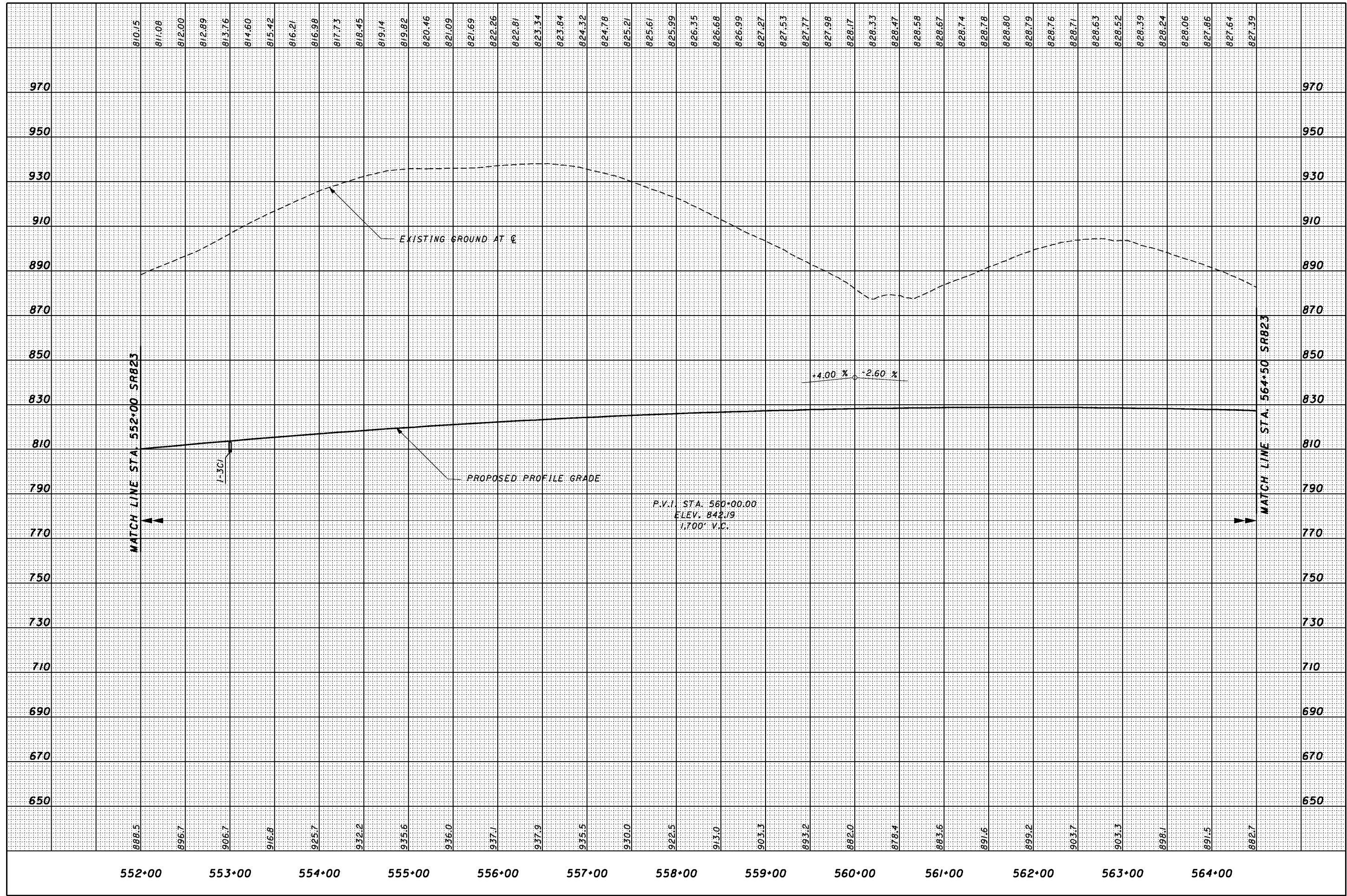
HORIZONTAL SCALE IN FEET

CALCULATED DL
 CHECKED RW
PLAN SR823
STA. 552+00.00 TO STA. 564+50.00

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CALCULATED
JFA
CHECKED
RN

PROFILE - SR823
STA. 552+00 TO STA. 564+50

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CURVE # 8

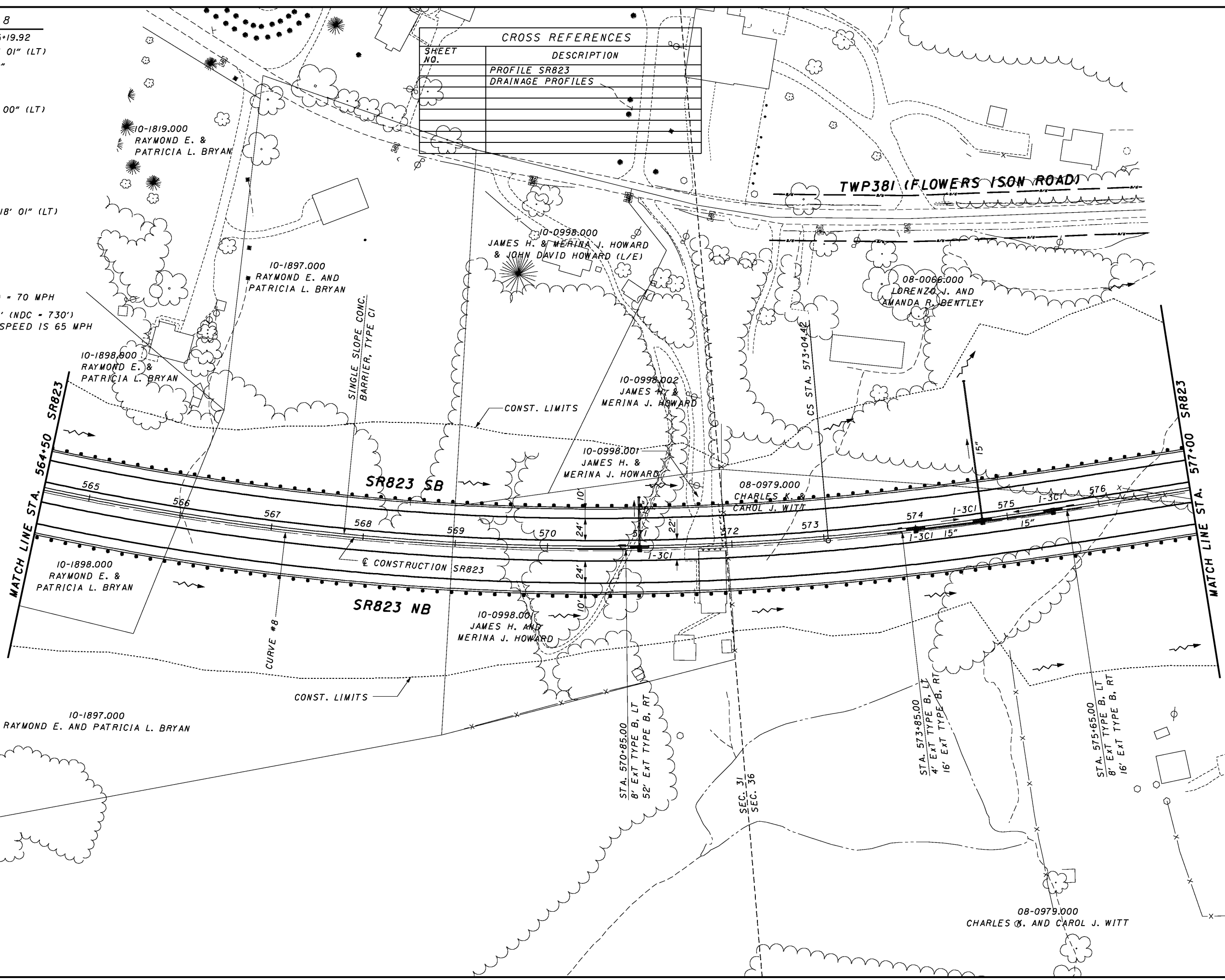
P.I. STA. = 565+19.92
 DELTA = 41° 18' 01" (LT)
 Dc = 2° 00' 00"
 R = 2,864.79'
 Ls = 400.00'
 Theta = 4° 00' 00" (LT)
 LT = 266.73'
 ST = 133.40'
 x = 399.81'
 y = 9.31'
 k = 199.97'
 p = 2.33'
 DELTA_c = 33° 18' 01" (LT)
 Lc = 1,665.01'
 Tc = 856.76'
 Ts = 1,280.51'
 Es = 199.18'
 E_{max} = 0.065
 DESIGN SPEED = 70 MPH
 HSSD = 663' (NDC = 730')
 ACTUAL DESIGN SPEED IS 65 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	DRAINAGE PROFILES

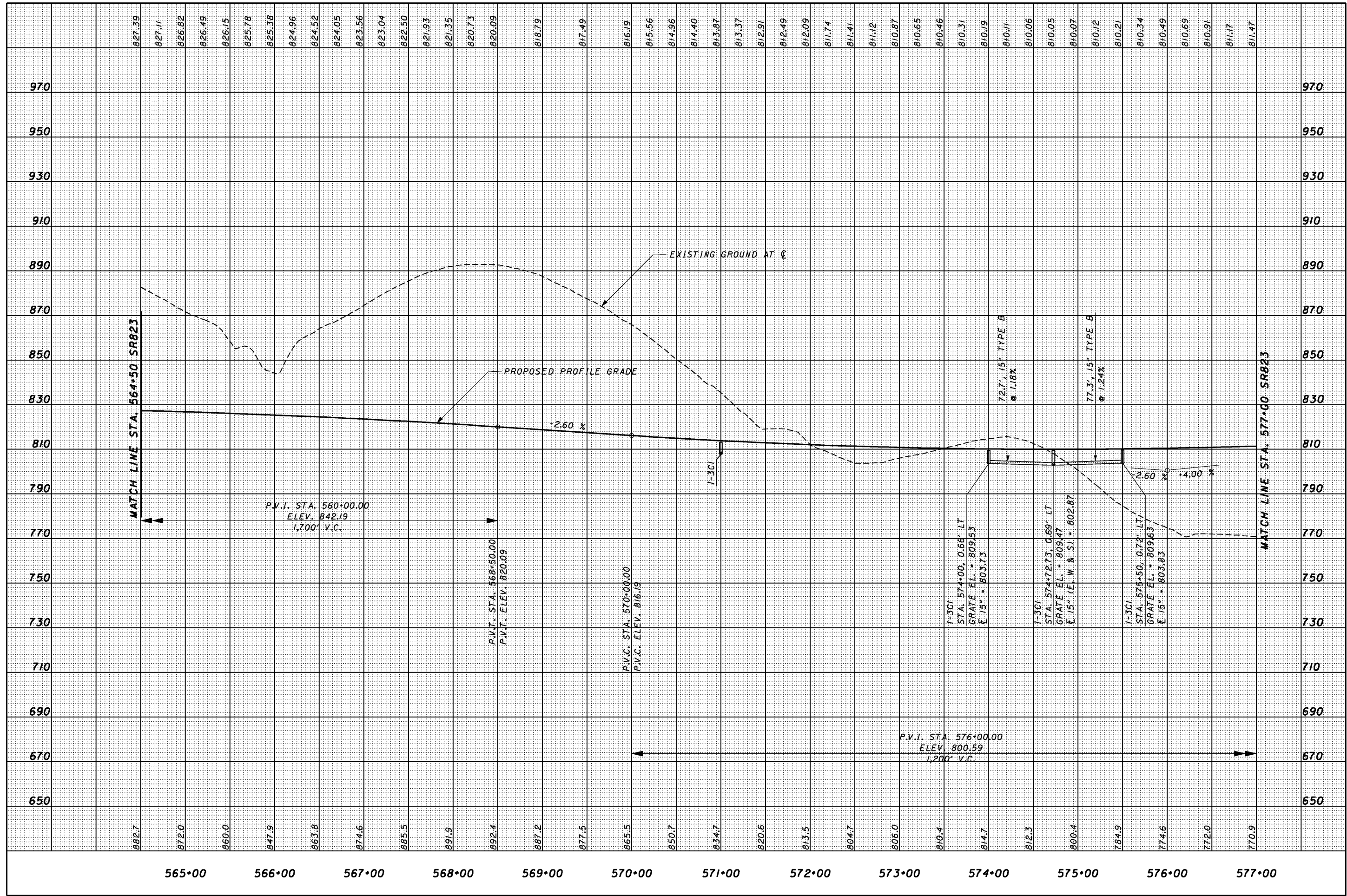
CALCULATED DL
 CHECKED RW
 HORIZONTAL SCALE IN FEET
 0 25 50 100

PLAN - SR823
 STA. 564+50.00 TO STA. 577+00.00

SCI-823-10.13



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**PROFILE - SR823
STA. 564+50 TO STA. 577+00**

1/28/2008 1:28:47 PM g:\co03\0064\road\phase 2\79917\p43_sr823.sht

08-0066.000
LORENZO J. AND
AMANDA R. BENTLEY

08-0979.000
CHARLES K. AND CAROL J. WITT

08-0677.000
RICHARD S. THAYER

08-0900.000
BARBARA ANN RAPP

08-0518.000
KENNETH MEADOWS

08-0518.000
KENNETH MEADOWS

TWP381 (FLOWERS ISON ROAD)

CR29 (BLUE RUN ROAD)

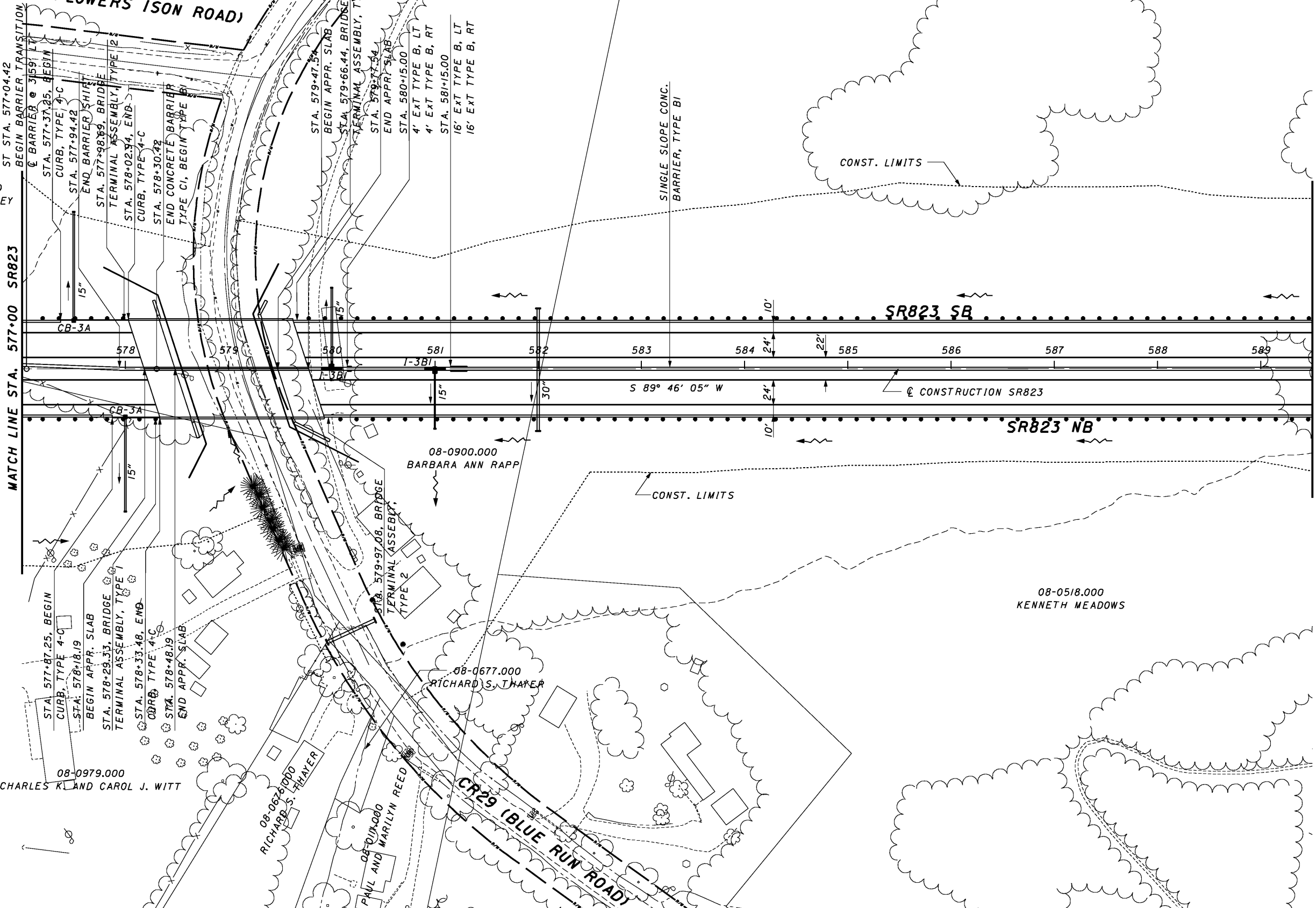
CR29 (BLUE RUN ROAD)

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	DRAINAGE PROFILES



MATCH LINE STA. 577+00 SR823

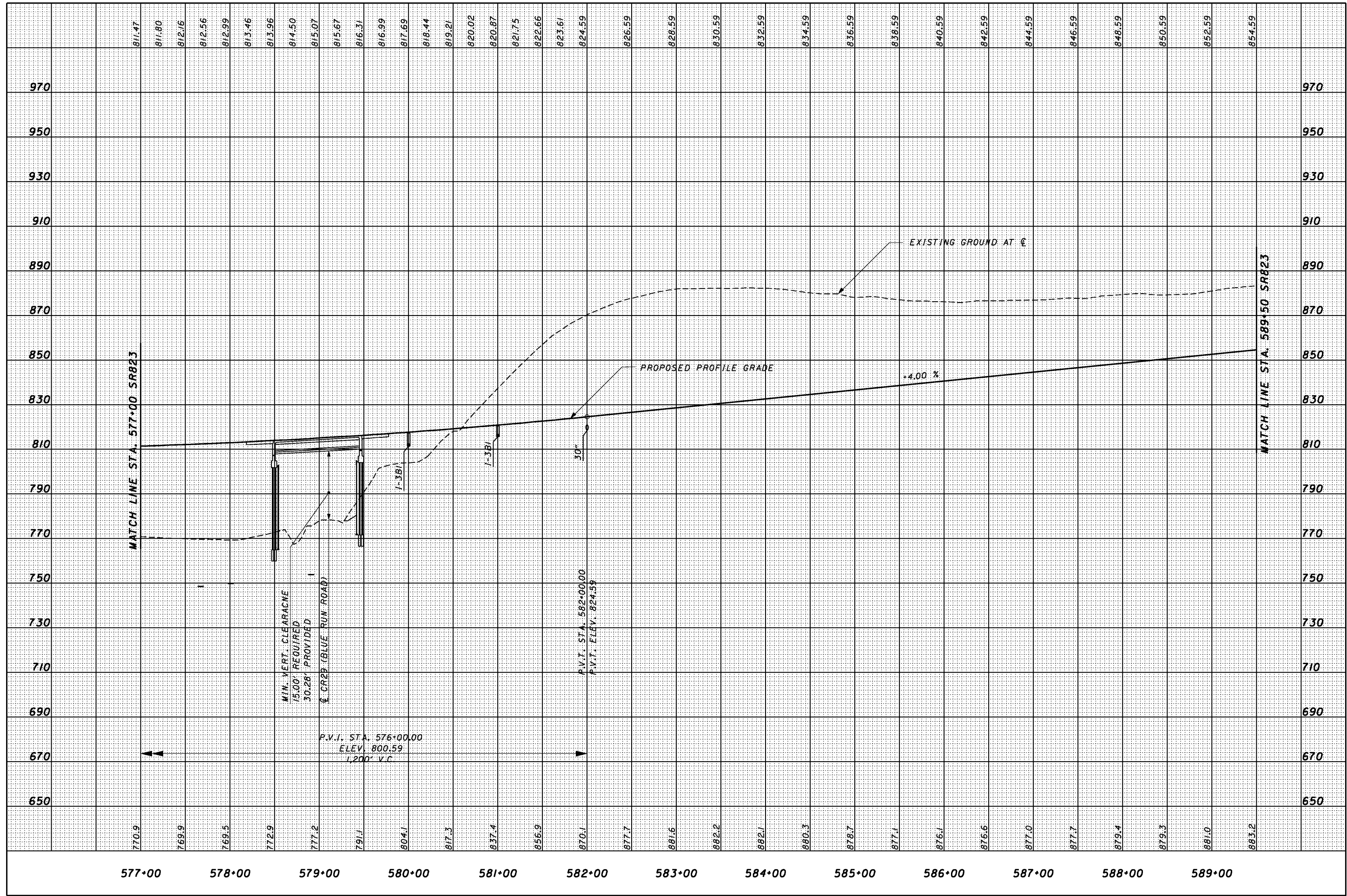
MATCH LINE STA. 589+50 SR823



PLAN - SR823
STA. 577+00.00 TO STA. STA. 589+50.00

SCI-823-10.13

1/28/2008 3:00:49 PM g:\co03\0064\road\phase 2\7917f43_sr823.sht



CALCULATED
JFA
CHECKED
RN

PROFILE - SR823
STA. 577+00 TO STA. 589+50

SCI-823-10.13

1/28/2008 1:28:58 PM g:\c003\0064\road\phase 2\79917\p44_sr823.sht

08-0518.000
KENNETH MEADOWS

STA. 590+15.00
16' EXT TYPE B, LT
16' EXT TYPE B, RT

SINGLE SLOPE CONC.
BARRIER, TYPE B1

08-0517.000
KENNETH MEADOWS

08-0684.000
VIRGIL L. AND CHERYL A. LAXTON

MATCH LINE STA. 589+50 SR823

590 591 592 593 594 595 596 597 598 599 600 601

S 89° 46' 05" W

SR823 SB

CONSTRUCTION SR823

SR823 NB

MATCH LINE STA. 602+00 SR823

08-0518.000
KENNETH MEADOWS

08-0517.000
KENNETH MEADOWS

08-0684.000
VIRGIL L. AND CHERYL A. LAXTON

STA. 599+65.00
16' EXT TYPE B, LT
16' EXT TYPE B, RT

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	CULVERT DETAILS
	DRAINAGE PROFILES

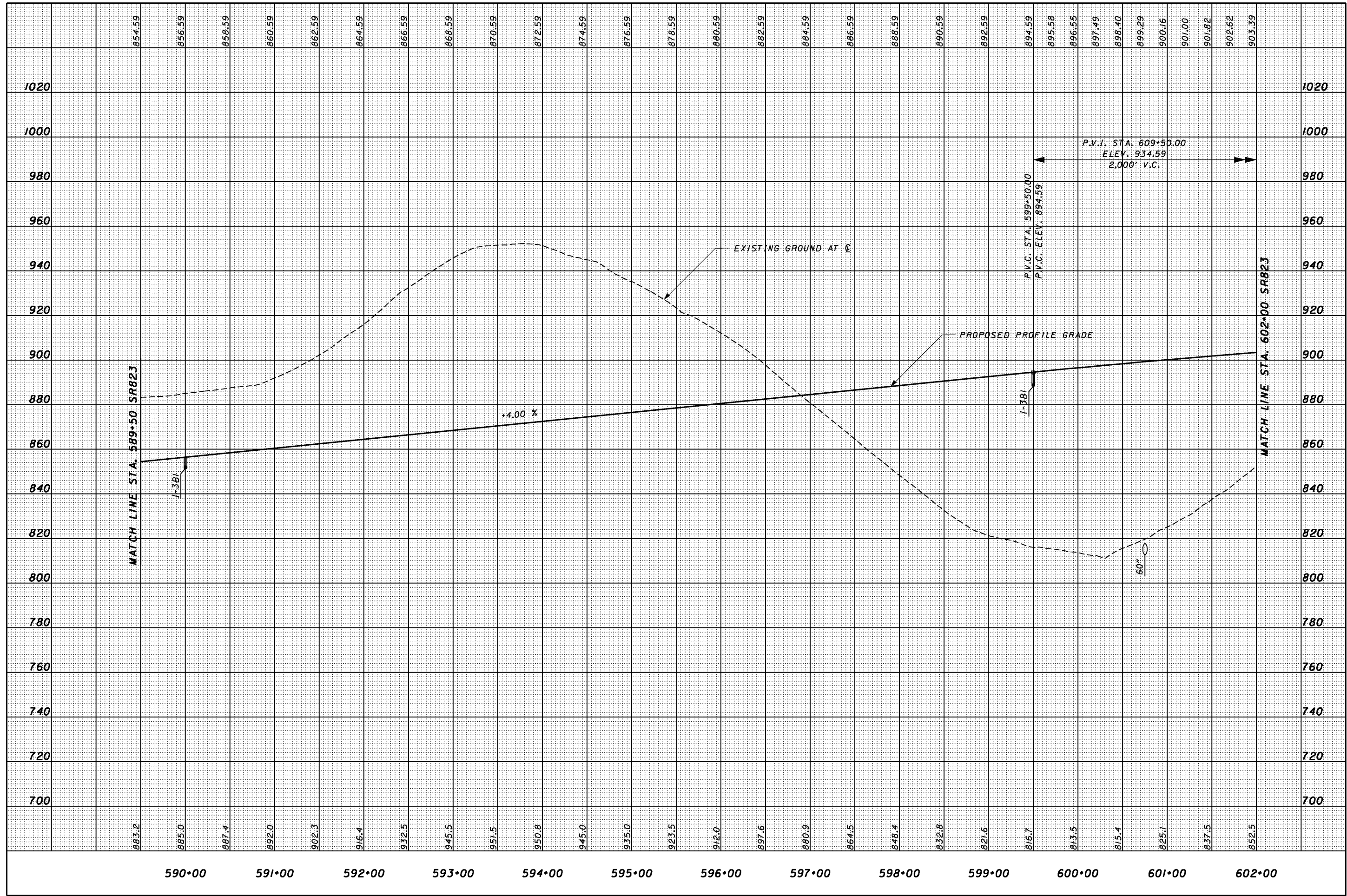
CALCULATED DL
CHECKED RW

HORIZONTAL SCALE IN FEET

PLAN - SR823
STA. 589+50.00 TO STA. 602+00.00

SCI-823-10.13

1/28/2008 3:10:00 PM g:\co03\0064\road\phase 2\79917of44_sr823.sht

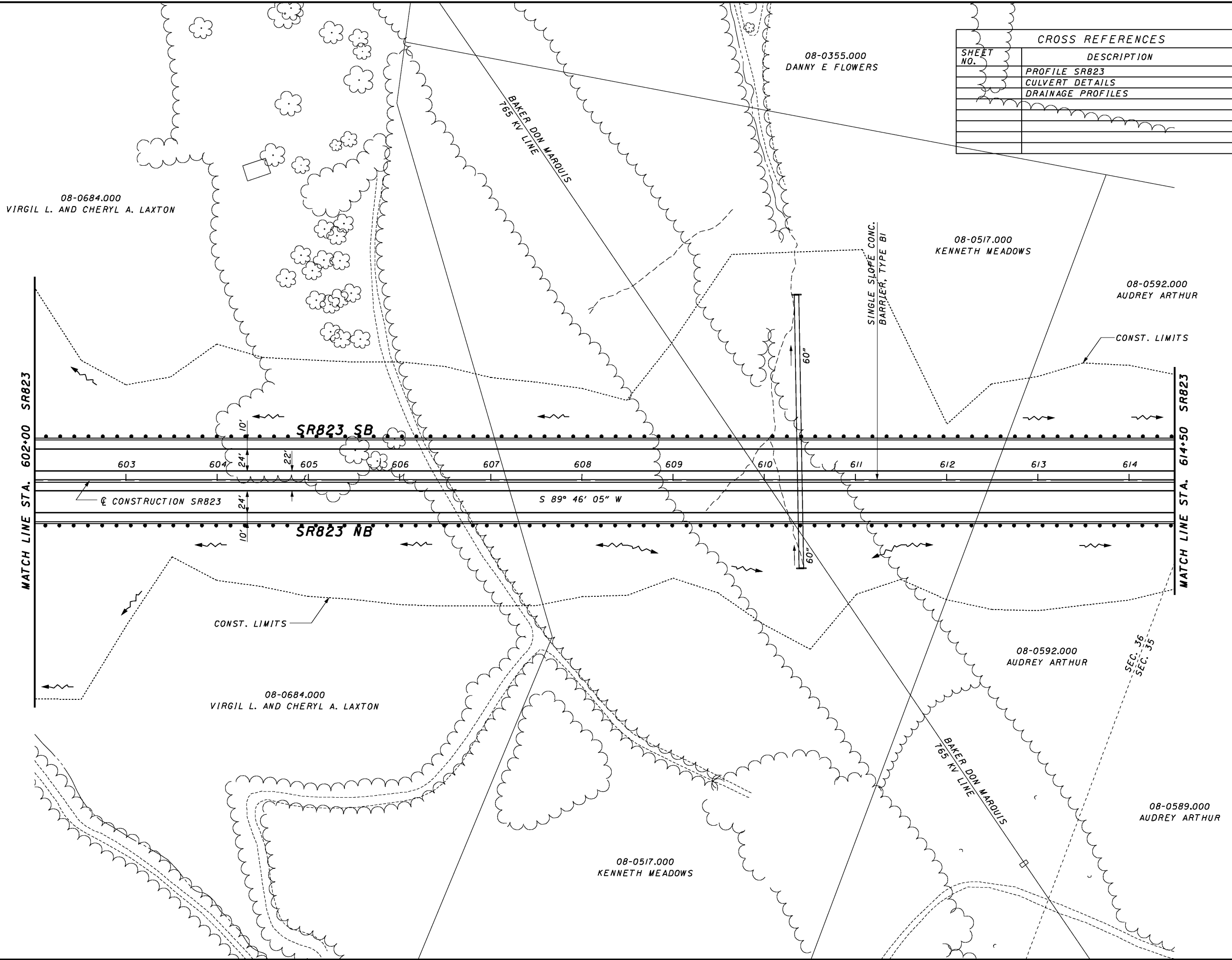


CALCULATED
JFA
CHECKED
RN

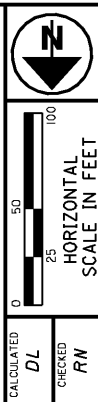
PROFILE - SR823
STA. 589+50 TO STA. 602+00

SCI-823-10.13

1/28/2008 11:28:20 AM g:\c003\0064\road\phase 2\79977gp45_sr823.sht



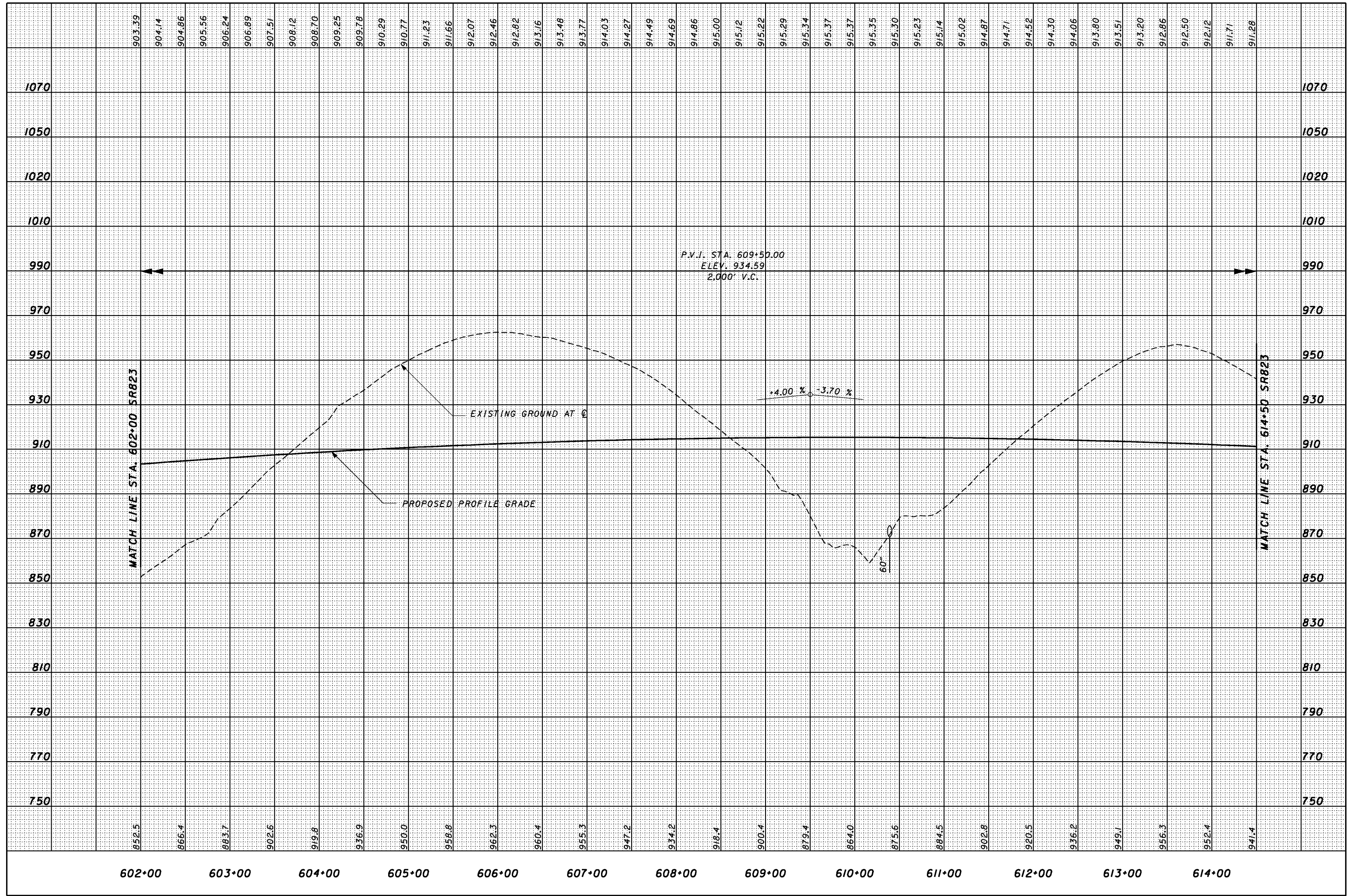
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	CULVERT DETAILS
	DRAINAGE PROFILES



PLAN - SR823
 STA. 602+00.00 TO STA. 614+50.00

SCI-823-10.13

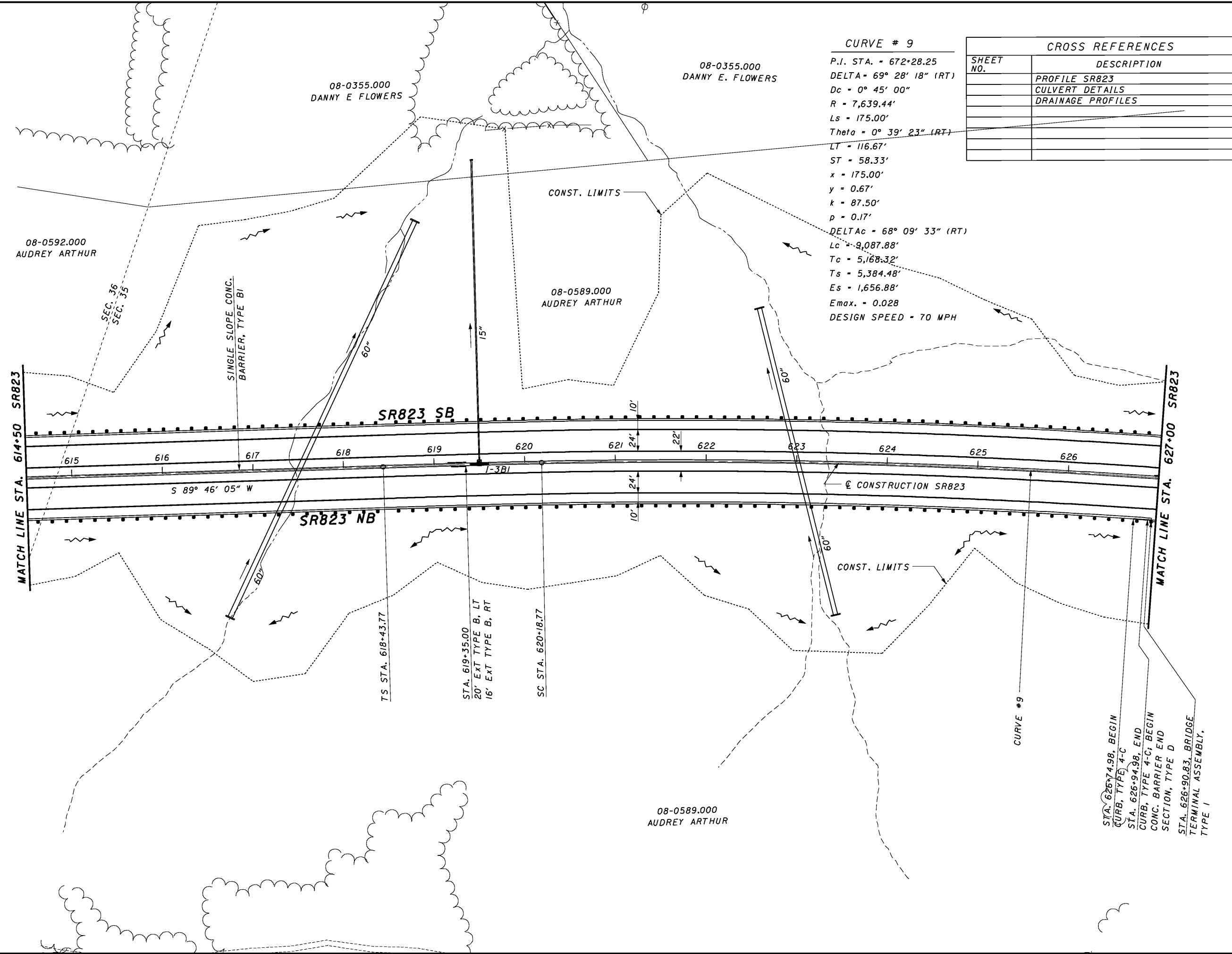
1/28/2008 g:\co03\0064\road\phase 2\79171of45_sr823.sht



CALCULATED
JFA
CHECKED
RN

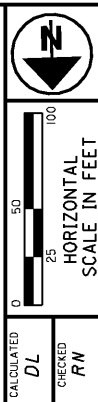
PROFILE - SR823
STA. 602+00 TO STA. 614+50

SCI-823-10.13



CURVE # 9
 P.I. STA. = 672+28.25
 DELTA = 69° 28' 18" (RT)
 Dc = 0° 45' 00"
 R = 7,639.44'
 Ls = 175.00'
 Theta = 0° 39' 23" (RT)
 LT = 116.67'
 ST = 58.33'
 x = 175.00'
 y = 0.67'
 k = 87.50'
 p = 0.17'
 DELTAc = 68° 09' 33" (RT)
 Lc = 9,087.88'
 Tc = 5,168.32'
 Ts = 5,384.48'
 Es = 1,656.88'
 Emax. = 0.028
 DESIGN SPEED = 70 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	CULVERT DETAILS
	DRAINAGE PROFILES

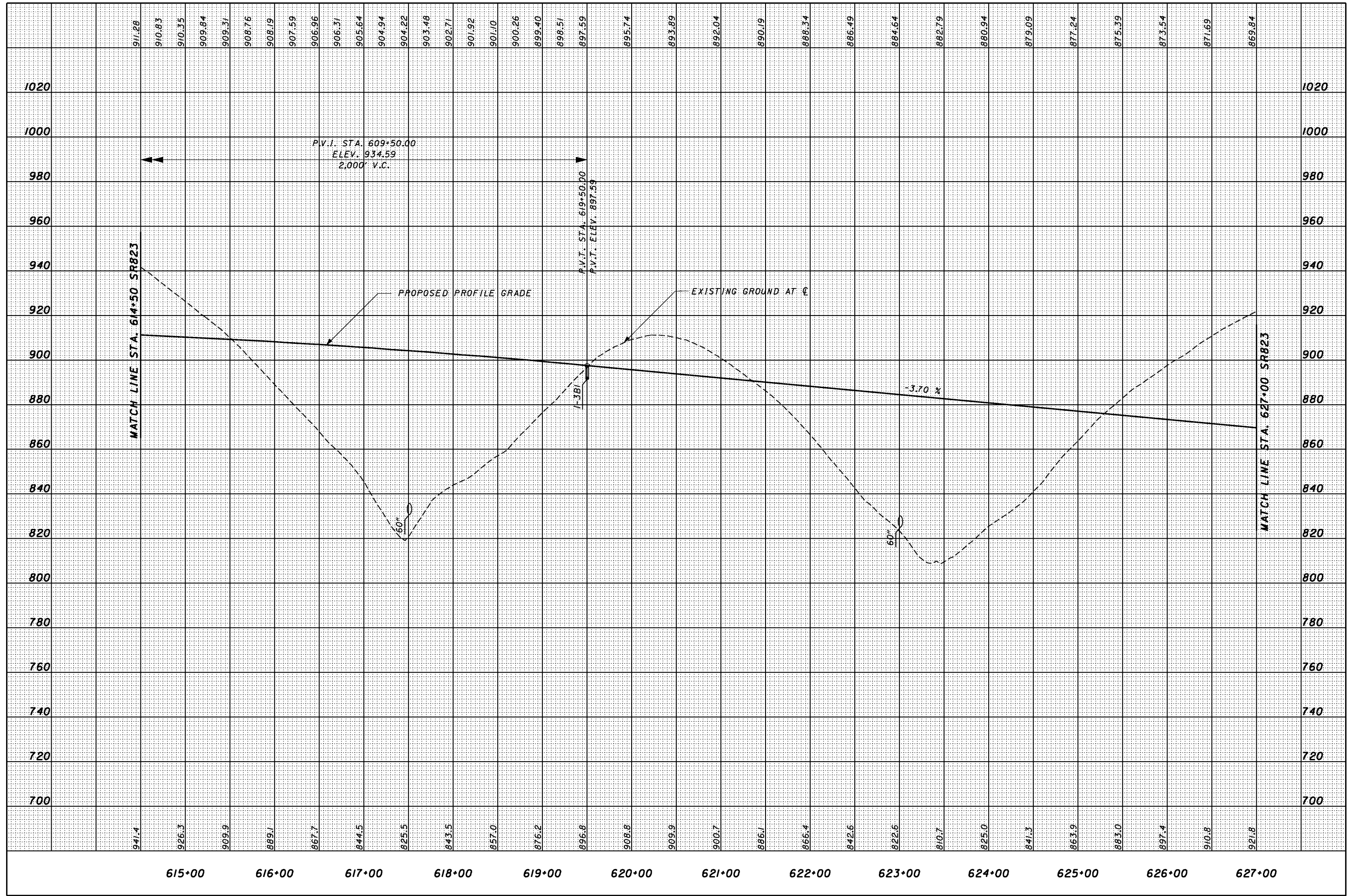


CALCULATED DL
 CHECKED RW

PLAN - SR823
 STA. 614+50.00 TO STA. 627+00.00

STA. 626+94.98, BEGIN CURB, TYPE 4-C
 STA. 626+94.98, END CURB, TYPE 4-C, BEGIN CONC. BARRIER END SECTION, TYPE D
 STA. 626+90.83, BRIDGE TERMINAL ASSEMBLY, TYPE I

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CALCULATED
JFA
CHECKED
RN

PROFILE - SR823
STA. 614+50 TO STA. 627+00

SCI-823-10.13

1/28/2008 3:11:32 PM g:\c03\0064\road\phase 2\79917gp47_sr823.sht

CURVE # 9

P.I. STA. = 672+28.25
 DELTA = 69° 28' 18" (RT)
 Dc = 0° 45' 00"
 R = 7,639.44'
 Ls = 175.00'
 Theta = 0° 39' 23" (RT)
 LT = 116.67'
 ST = 58.33'
 x = 175.00'
 y = 0.67'
 k = 87.50'
 p = 0.17'
 DELTA_c = 68° 09' 33" (RT)
 Lc = 9,087.88'
 Tc = 5,168.32'
 Ts = 5,384.48'
 Es = 1,656.88'
 Emax. = 0.028
 DESIGN SPEED = 70 MPH

08-0355.000
DANNY E. FLOWERS

08-0691.000
SHIRLEY P. DAILEY

08-0692.000
SHIRLEY P. DAILEY

STA. 627+85.19, BRIDGE
 TERMINAL ASSEMBLY,
 TYPE 2
 STA. 627+89.44, BEGIN
 CONC. BARRIER END
 SECTION, TYPE D
 STA. 628+03.44, END
 CONC. BARRIER END
 SECTION, TYPE D; BEGIN
 CONC. BARRIER, TYPE D

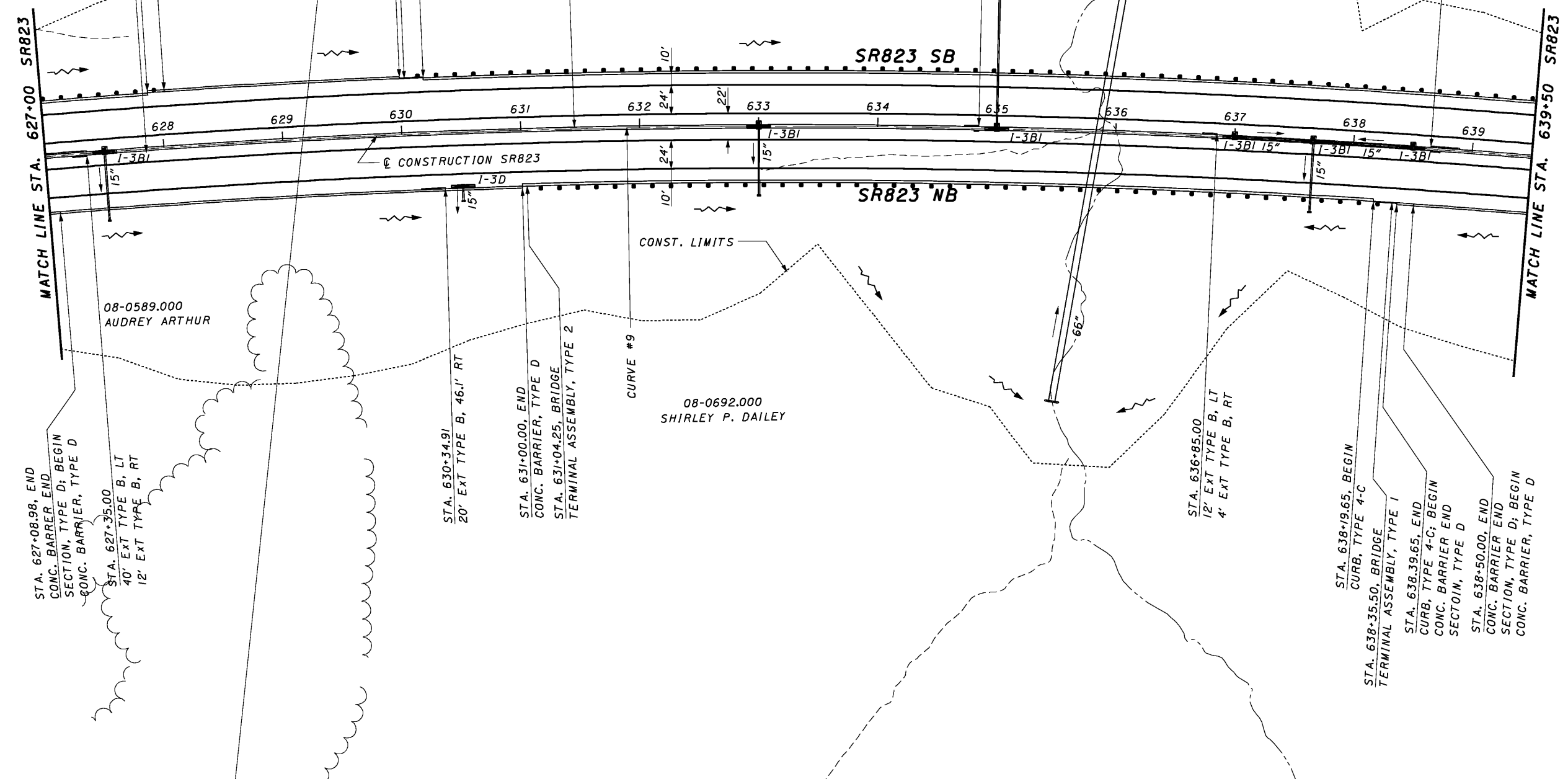
STA. 630+00.00, END
 CONC. BARRIER, TYPE 4-C
 BEGIN CURB, TYPE 4-C
 STA. 630+04.15, BRIDGE
 TERMINAL ASSEMBLY, TYPE 1
 STA. 630+20.00, END
 CURB, TYPE 4-C

SINGLE SLOPE CONC.
BARRIER, TYPE BI

STA. 634+85.00
12' EXT TYPE B, LT
4' EXT TYPE B, RT

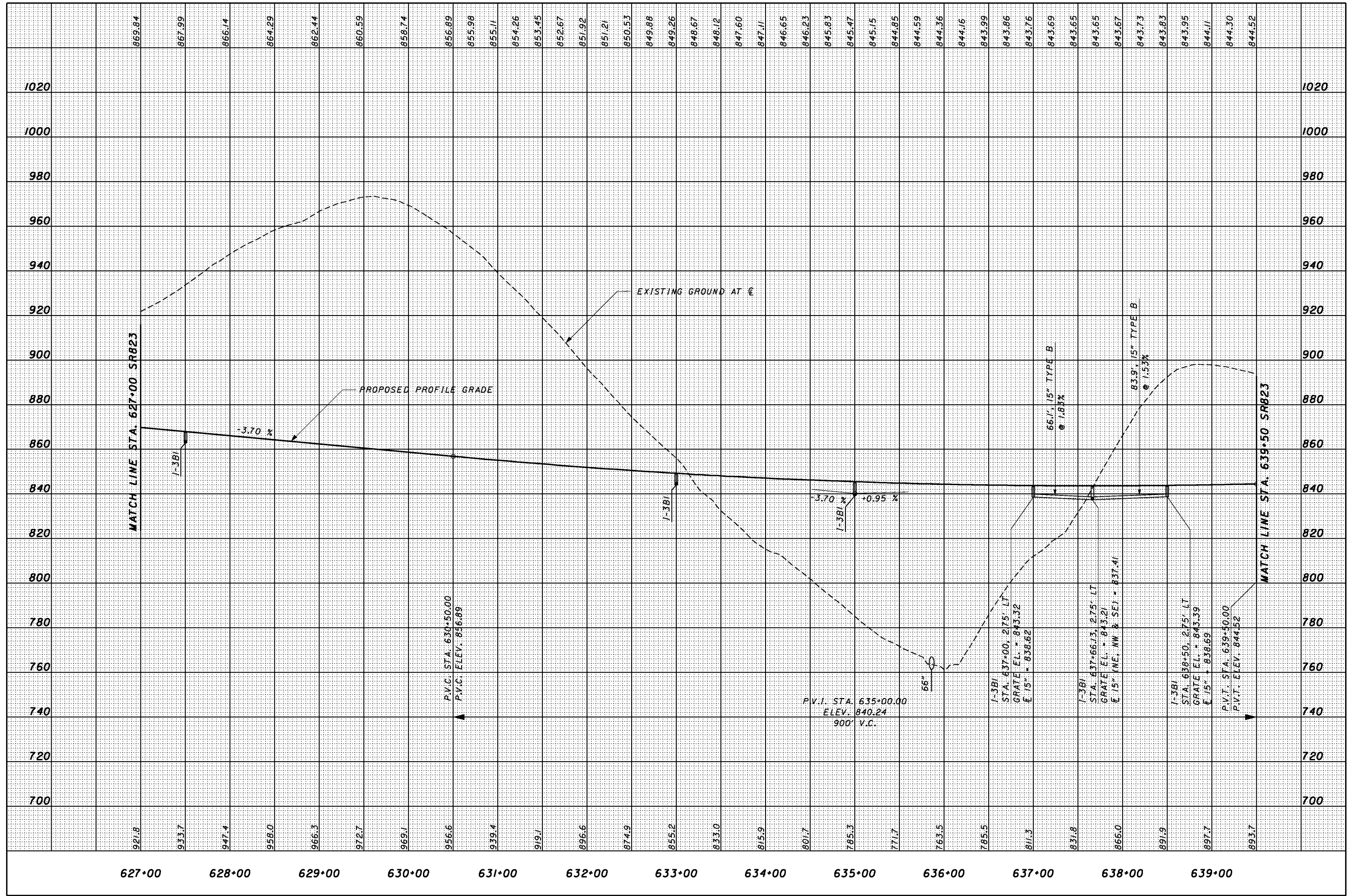
STA. 638+65.00
24' EXT TYPE B, LT
8' EXT TYPE B, RT

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	CULVERT DETAILS
	DRAINAGE PROFILES



PLAN - SR823
STA. 627+00.00 TO STA. 639+50.00

SCI-823-10.13



PROFILE - SR823
STA. 627+00 TO STA. 639+50

CURVE # 9

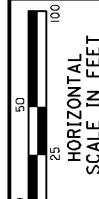
P.I. STA. = 672+28.25
 DELTA = 69° 28' 18" (RT)
 Dc = 0° 45' 00"
 R = 7,639.44'
 Ls = 175.00'
 Theta = 0° 39' 23" (RT)
 LT = 116.67'
 ST = 58.33'
 x = 175.00'
 y = 0.67'
 k = 87.50'
 p = 0.17'
 DELTA_c = 68° 09' 33" (RT)
 Lc = 9,087.88'
 Tc = 5,168.32'
 Ts = 5,384.48'
 Es = 1,656.88'
 Emax. = 0.028
 DESIGN SPEED = 70 MPH

08-0692.000
 SHIRLEY P. DAILEY

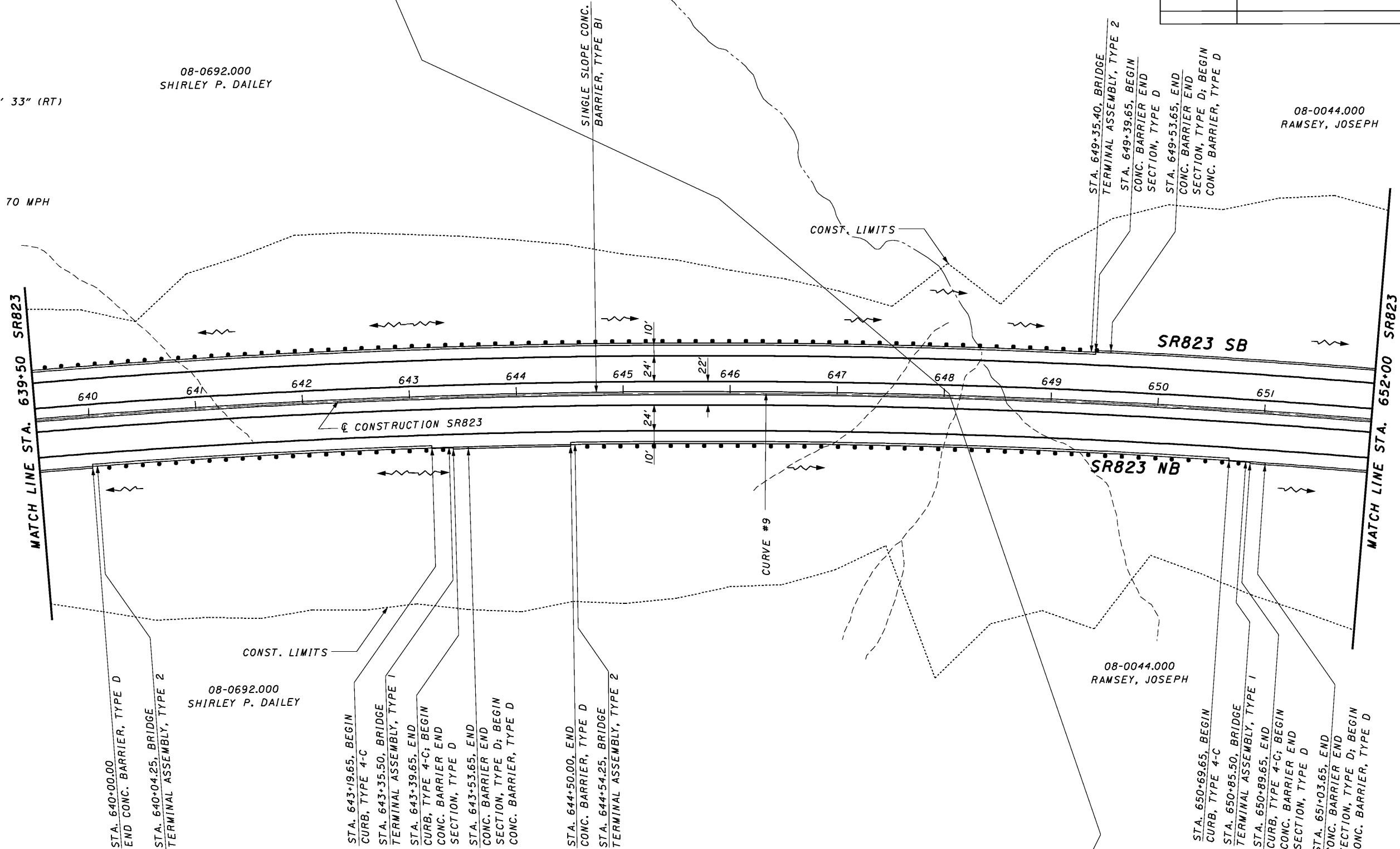
08-0692.000
 SHIRLEY P. DAILEY

08-0044.000
 RAMSEY, JOSEPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823



CALCULATED DL
 CHECKED RW

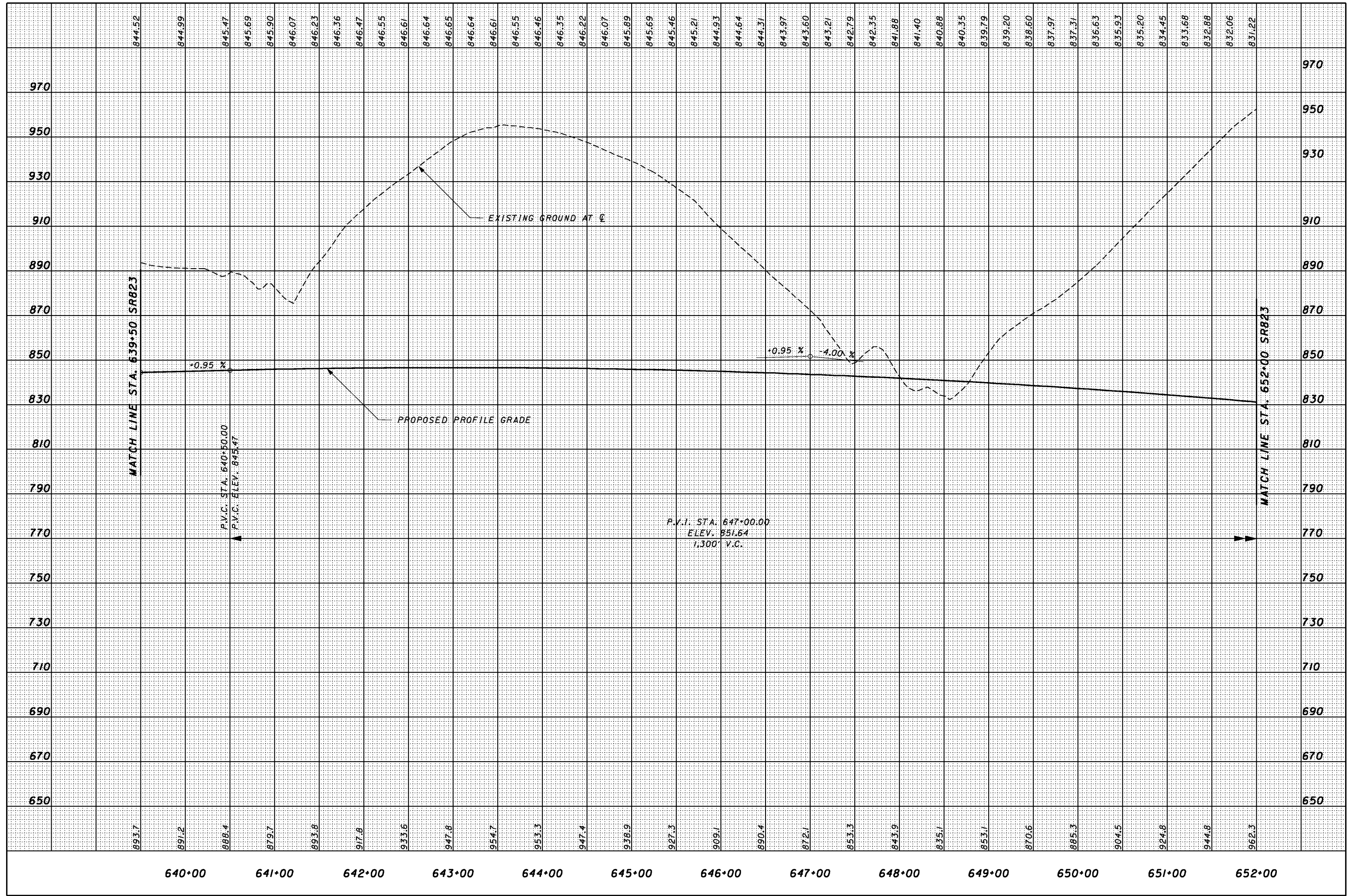


STA. 640+00.00
 END CONC. BARRIER, TYPE D
 STA. 640+04.25, BRIDGE
 TERMINAL ASSEMBLY, TYPE 2

STA. 643+19.65, BEGIN CURB, TYPE 4-C
 STA. 643+35.50, BRIDGE TERMINAL ASSEMBLY, TYPE 1
 STA. 643+39.65, END CURB, TYPE 4-C; BEGIN CONC. BARRIER END SECTION, TYPE D
 STA. 643+53.65, END CONC. BARRIER END SECTION, TYPE D; BEGIN CONC. BARRIER, TYPE D

STA. 644+50.00, END CONC. BARRIER, TYPE D
 STA. 644+54.25, BRIDGE TERMINAL ASSEMBLY, TYPE 2

STA. 650+69.65, BEGIN CURB, TYPE 4-C
 STA. 650+85.50, BRIDGE TERMINAL ASSEMBLY, TYPE 1
 STA. 650+89.65, END CURB, TYPE 4-C; BEGIN CONC. BARRIER END SECTION, TYPE D
 STA. 651+03.65, END CONC. BARRIER END SECTION, TYPE D; BEGIN CONC. BARRIER, TYPE D



MATCH LINE STA. 639+50 SR823

MATCH LINE STA. 652+00 SR823

P.V.C. STA. 640+50.00
P.V.C. ELEV. 845.47

P.V.I. STA. 647+00.00
ELEV. 851.64
1,300' V.C.

+0.95 %

+0.95 %

-4.00 %

EXISTING GROUND AT E

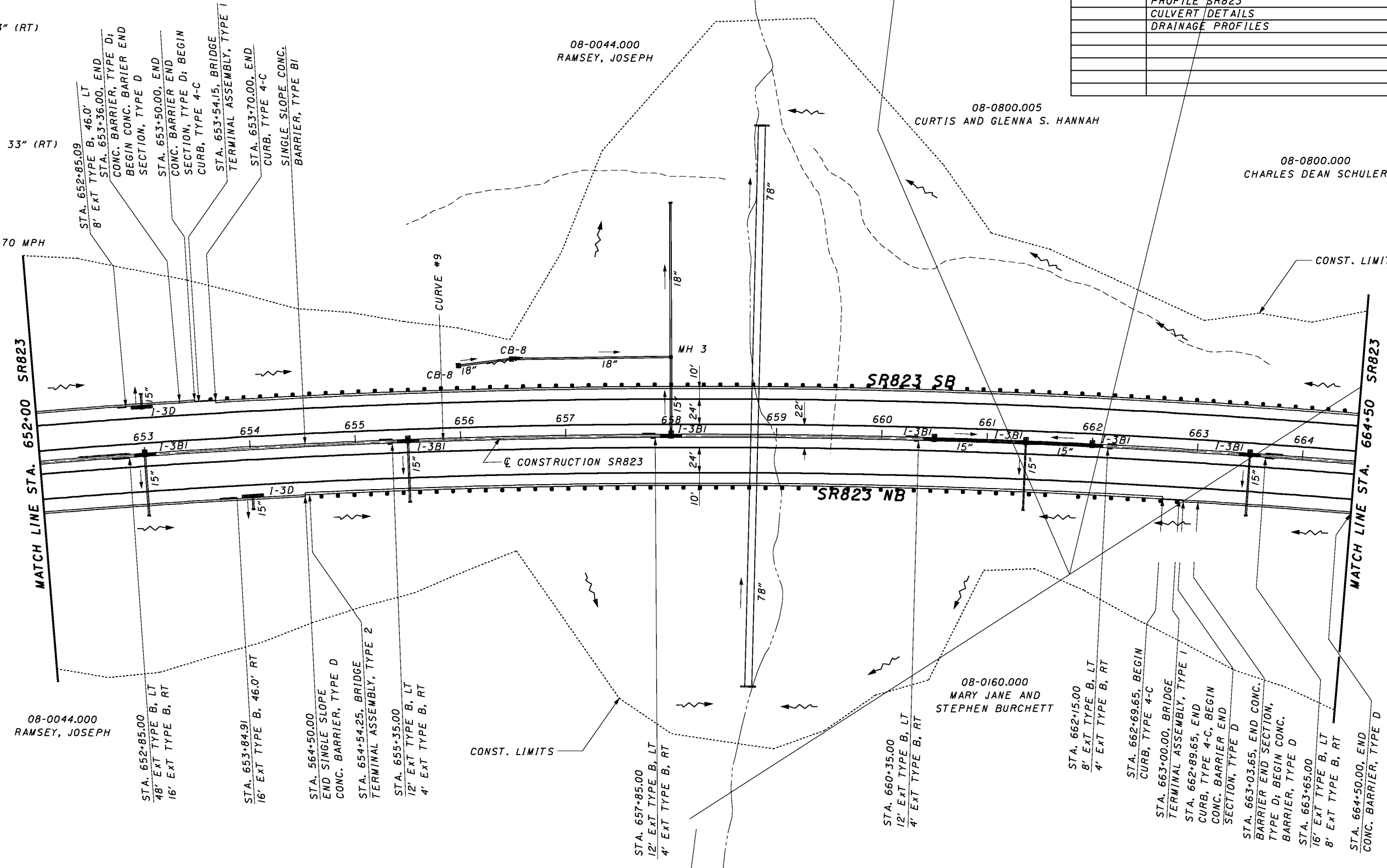
PROPOSED PROFILE GRADE

PROFILE - SR823
STA. 639+50 TO STA. 652+00

CURVE # 9

P.I. STA. = 672+28.25
 DELTA = 69° 28' 18" (RT)
 Dc = 0° 45' 00"
 R = 7,639.44'
 Ls = 175.00'
 Theta = 0° 39' 23" (RT)
 LT = 116.67'
 ST = 58.33'
 x = 175.00'
 y = 0.67'
 k = 87.50'
 p = 0.17'
 DELTA_c = 68° 09' 33" (RT)
 Lc = 9,087.88'
 Tc = 5,168.32'
 Ts = 5,384.48'
 Es = 1,656.88'
 Emax. = 0.028
 DESIGN SPEED = 70 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	CULVERT DETAILS
	DRAINAGE PROFILES



08-0044.000
RAMSEY, JOSEPH

STA. 652+85.00
48' EXT TYPE B, LT
16' EXT TYPE B, RT

STA. 653+84.91
16' EXT TYPE B, 46.0' RT

STA. 564+50.00
END SINGLE SLOPE
CONC. BARRIER, TYPE D

STA. 654+54.25, BRIDGE
TERMINAL ASSEMBLY, TYPE 2

STA. 655+35.00
12' EXT TYPE B, LT
4' EXT TYPE B, RT

STA. 657+85.00
12' EXT TYPE B, LT
4' EXT TYPE B, RT

STA. 660+35.00
12' EXT TYPE B, LT
4' EXT TYPE B, RT

08-0160.000
MARY JANE AND
STEPHEN BURCHETT

STA. 662+15.00
8' EXT TYPE B, LT
4' EXT TYPE B, RT

STA. 662+69.65, BEGIN
CURB, TYPE 4-C

STA. 663+00.00, BRIDGE
TERMINAL ASSEMBLY, TYPE 1

STA. 662+89.65, END
CURB, TYPE 4-C, BEGIN
CONC. BARRIER END
SECTION, TYPE D

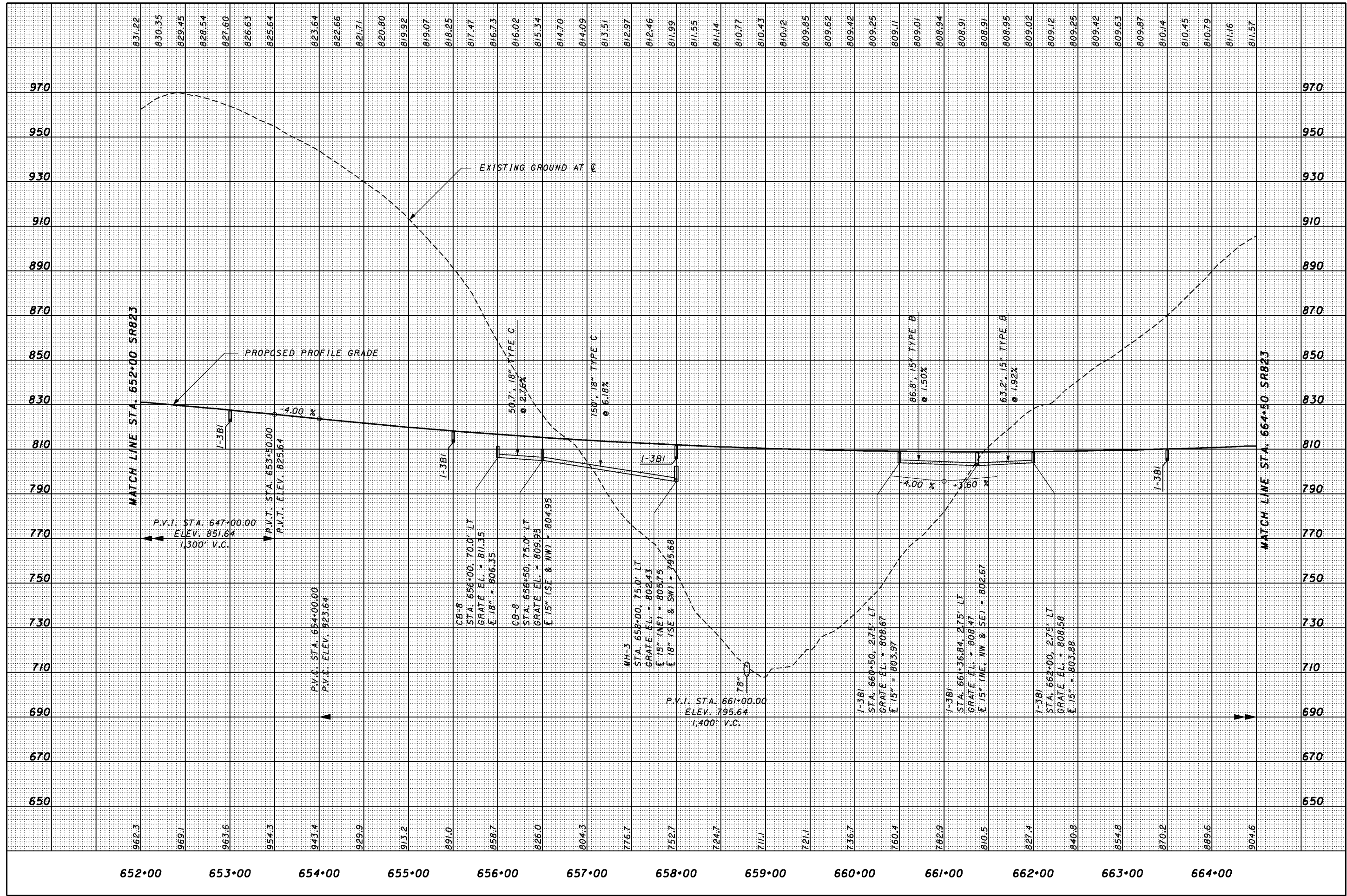
STA. 663+03.65, END CONC.
BARRIER END SECTION,
TYPE D; BEGIN CONC.
BARRIER, TYPE D

STA. 663+65.00
16' EXT TYPE B, LT
8' EXT TYPE B, RT

STA. 664+50.00, END
CONC. BARRIER, TYPE D

PLAN - SR823
STA. 652+00.00 TO STA. 664+50.00

SCI-823-10.13



CURVE # 9

P.I. STA. = 672+28.25
 DELTA = 69° 28' 18" (RT)
 Dc = 0° 45' 00"
 R = 7,639.44'
 Ls = 175.00'
 Theta = 0° 39' 23" (RT)
 LT = 116.67'
 ST = 58.33'
 x = 175.00'
 y = 0.67'
 k = 87.50'
 p = 0.17'
 DELTA_c = 68° 09' 33" (RT)
 Lc = 9,087.88'
 Tc = 5,168.32'
 Ts = 5,384.48'
 Es = 1,656.88'
 Emax. = 0.028
 DESIGN SPEED = 70 MPH

08-0800.000
 CHARLES DEAN SCHULER

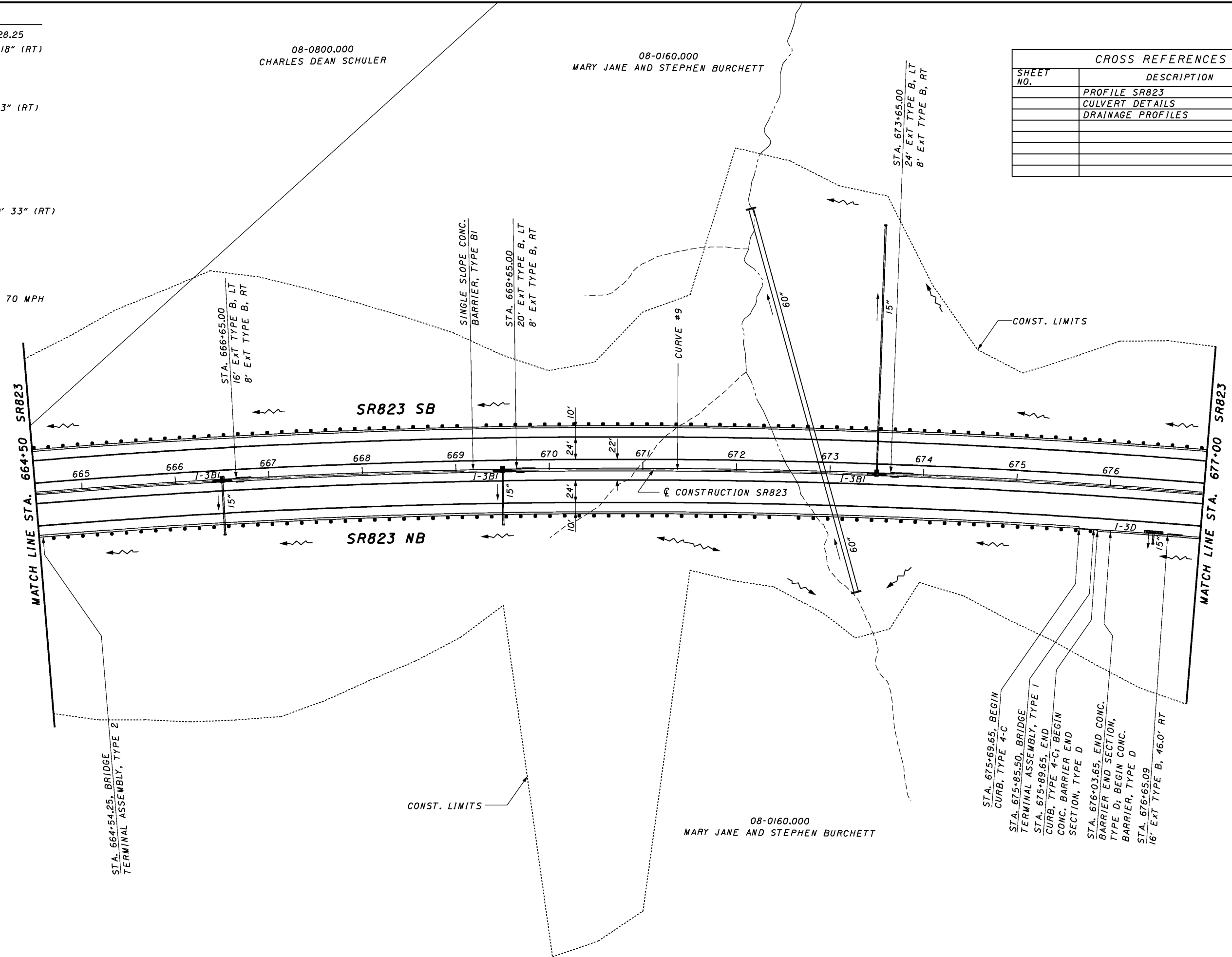
08-0160.000
 MARY JANE AND STEPHEN BURCHETT

08-0160.000
 MARY JANE AND STEPHEN BURCHETT

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	CULVERT DETAILS
	DRAINAGE PROFILES

CALCULATED DL
 CHECKED RW

0 25 50 100
 HORIZONTAL SCALE IN FEET



STA. 675+69.65, BEGIN CURB, TYPE 4-C
 STA. 675+85.50, BRIDGE TERMINAL ASSEMBLY, TYPE I
 STA. 675+89.65, END CURB, TYPE 4-C; BEGIN CONC. BARRIER END SECTION, TYPE D
 STA. 676+03.65, END CONC. BARRIER END SECTION, TYPE D; BEGIN CONC. BARRIER, TYPE D
 STA. 676+65.09 16' EXT TYPE B, 46.0' RT

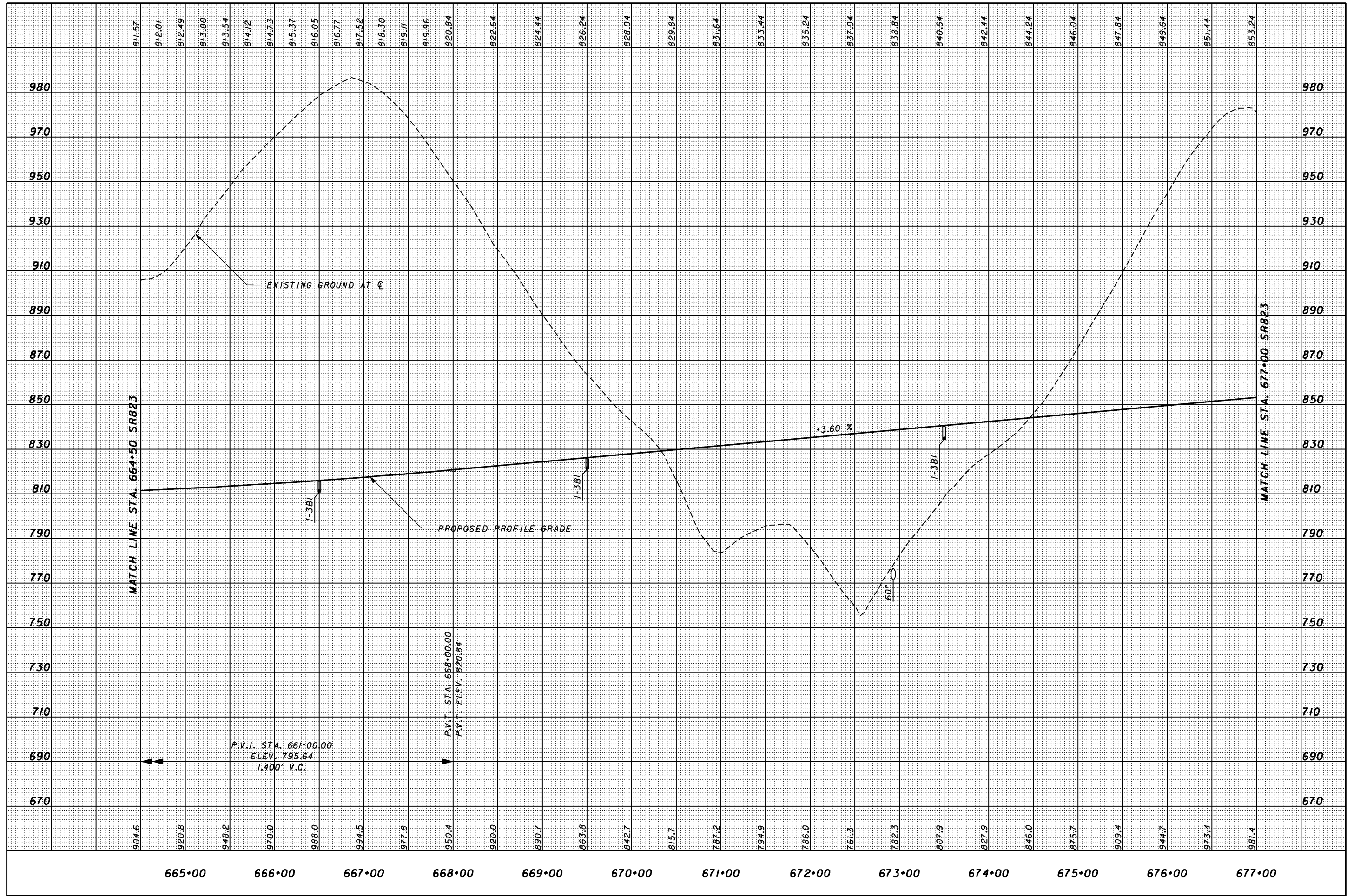
STA. 664+54.25, BRIDGE TERMINAL ASSEMBLY, TYPE 2

1/28/2008 1:28:07 PM g:\co03\0064\road\phase 2\79917\p50_sr823.sht

PLAN - SR823
STA. 664+50.00 TO STA. 677+00.00

SCI-823-10.13

1/28/2008 3:12:09 PM g:\co03\0064\Road\phase 2\79917f50_sr823.snt



CALCULATED
JFA
CHECKED
RN

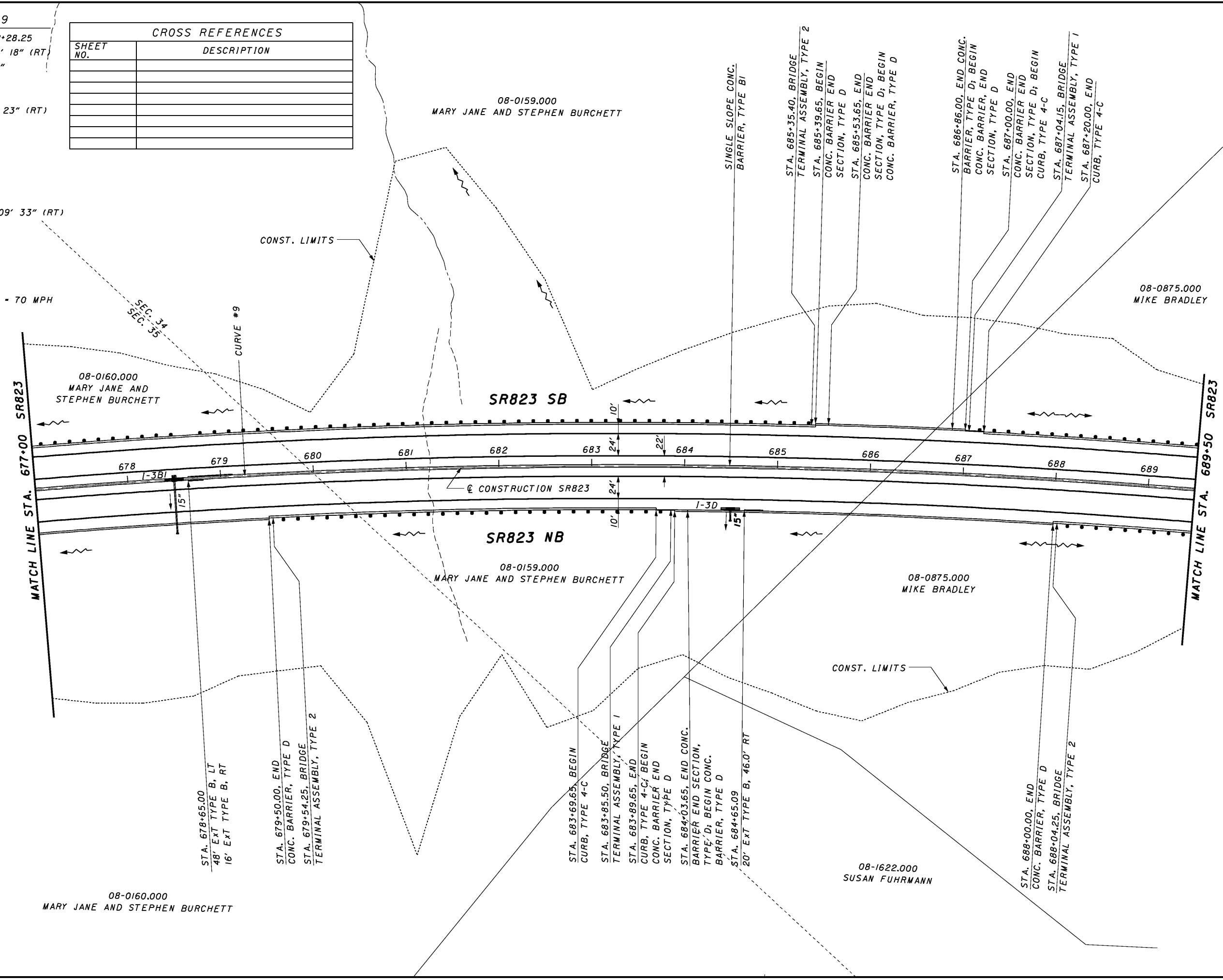
PROFILE - SR823
STA. 664+50 TO STA. 677+00

SCI-823-10.13

1/28/2008 3:12:19 PM g:\c03\0064\road\phase 2\79917\p5\sr-823.sht

CURVE # 9
 P.I. STA. = 672+28.25
 DELTA = 69° 28' 18" (RT)
 Dc = 0° 45' 00"
 R = 7,639.44'
 Ls = 175.00'
 Theta = 0° 39' 23" (RT)
 LT = 116.67'
 ST = 58.33'
 x = 175.00'
 y = 0.67'
 k = 87.50'
 p = 0.17'
 DELTA_c = 68° 09' 33" (RT)
 Lc = 9,087.88'
 Tc = 5,168.32'
 Ts = 5,384.48'
 Es = 1,656.88'
 Emax. = 0.028
 DESIGN SPEED = 70 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION

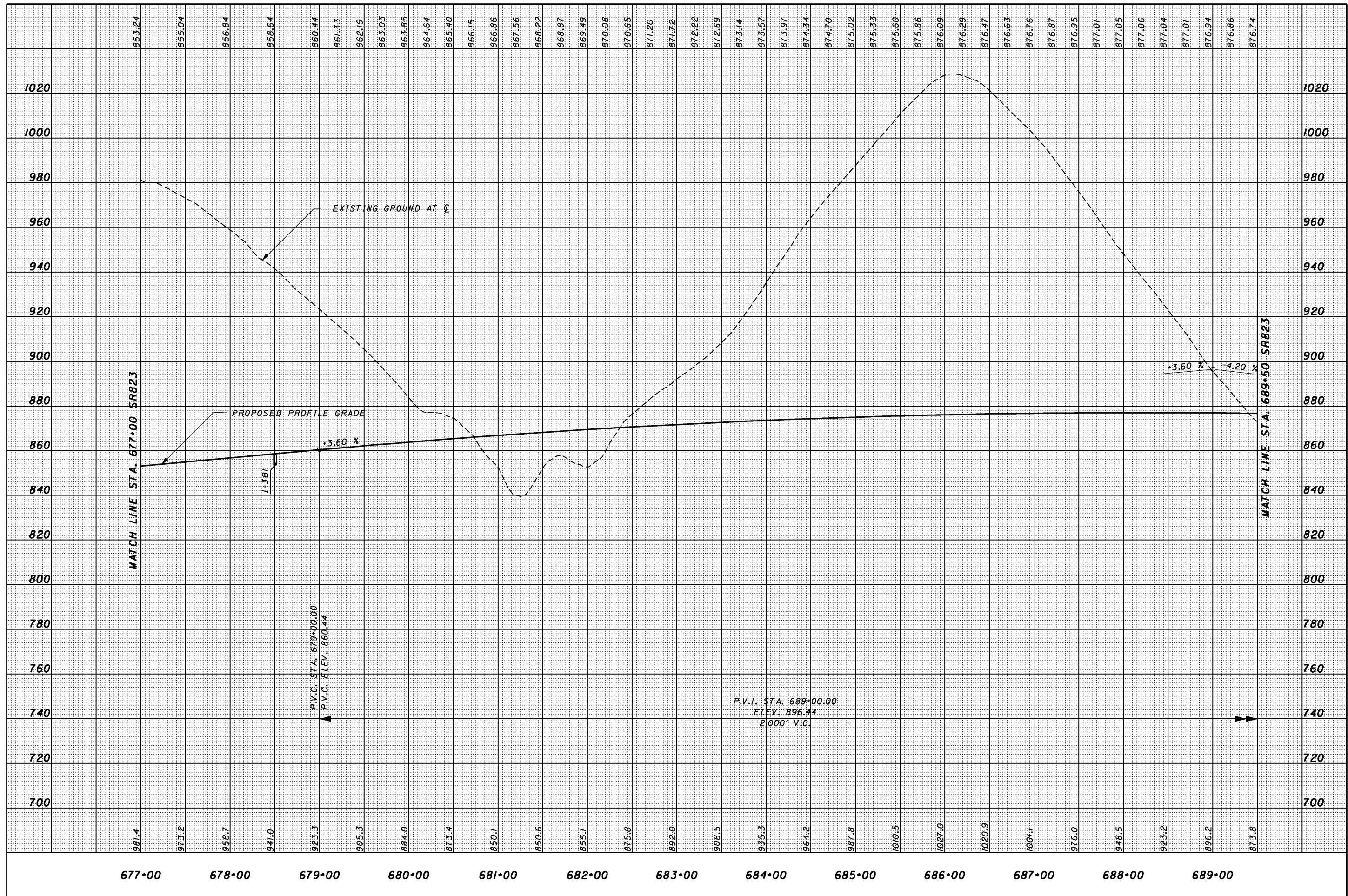


CALCULATED DL
 CHECKED RW

PLAN - SR823
STA. 677+00.00 TO STA. 689+50.00

SCI-823-10.13

61



08-0159.000
MARY JANE &
STEPHEN BURCHETT

08-0874.000
MIKE BRADLEY

08-0875.000
MIKE BRADLEY

08-0576.000
JAMES AND JOANNE SHELTON

08-0576.000
JAMES AND JOANNE SHELTON

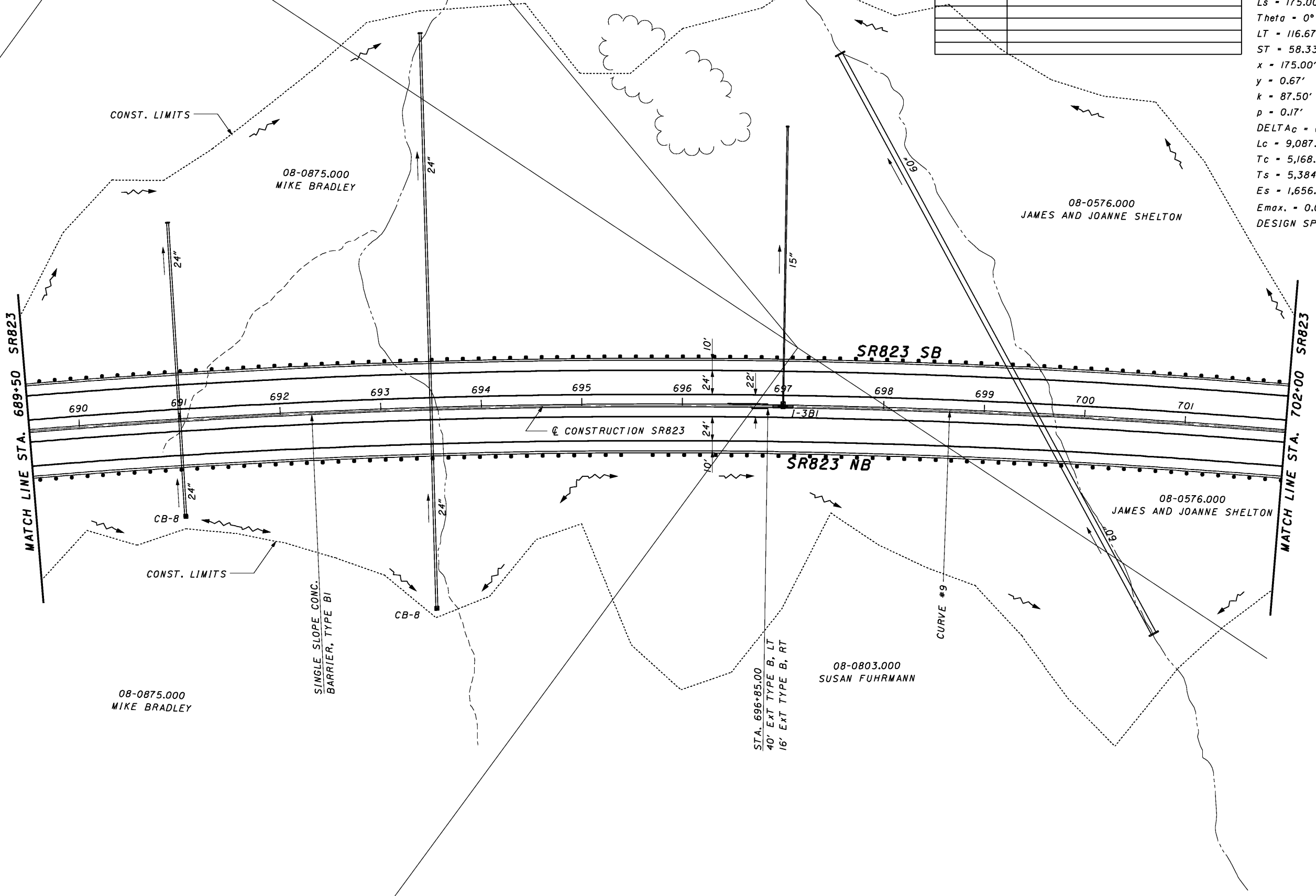
08-0803.000
SUSAN FUHRMANN

08-0875.000
MIKE BRADLEY

08-1622.000
SUSAN FUHRMANN

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	CULVERT DETAILS
	DRAINAGE PROFILES

CURVE # 9
 P.I. STA. = 672+28.25
 DELTA = 69° 28' 18" (RT)
 Dc = 0° 45' 00"
 R = 7,639.44'
 Ls = 175.00'
 Theta = 0° 39' 23" (RT)
 LT = 116.67'
 ST = 58.33'
 x = 175.00'
 y = 0.67'
 k = 87.50'
 p = 0.17'
 DELTA_c = 68° 09' 33" (RT)
 Lc = 9,087.88'
 Tc = 5,168.32'
 Ts = 5,384.48'
 Es = 1,656.88'
 Emax. = 0.028
 DESIGN SPEED = 70 MPH



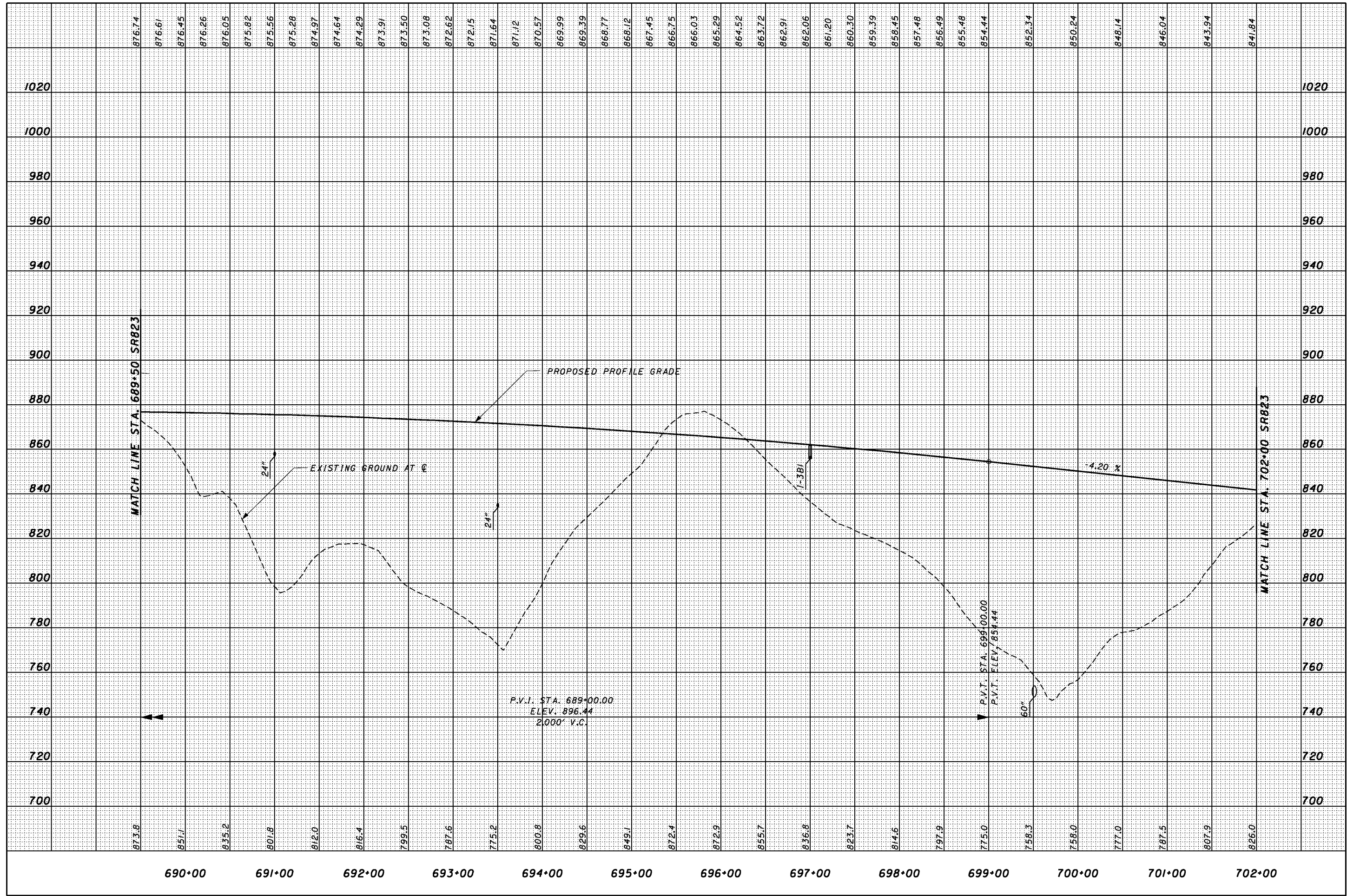
1/28/2008 9:12:31 PM g:\c003\0064\road\phase 2\79917\p52_sr823.sht

PLAN - SR823
 STA. 689+50.00 OR STA. 702+00.00

SCI-823-10.13

63

1/28/2008 3:12:33 PM g:\co03\0064\road\phase 2\79917f52_br823.sht



CALCULATED
JFA
CHECKED
RN

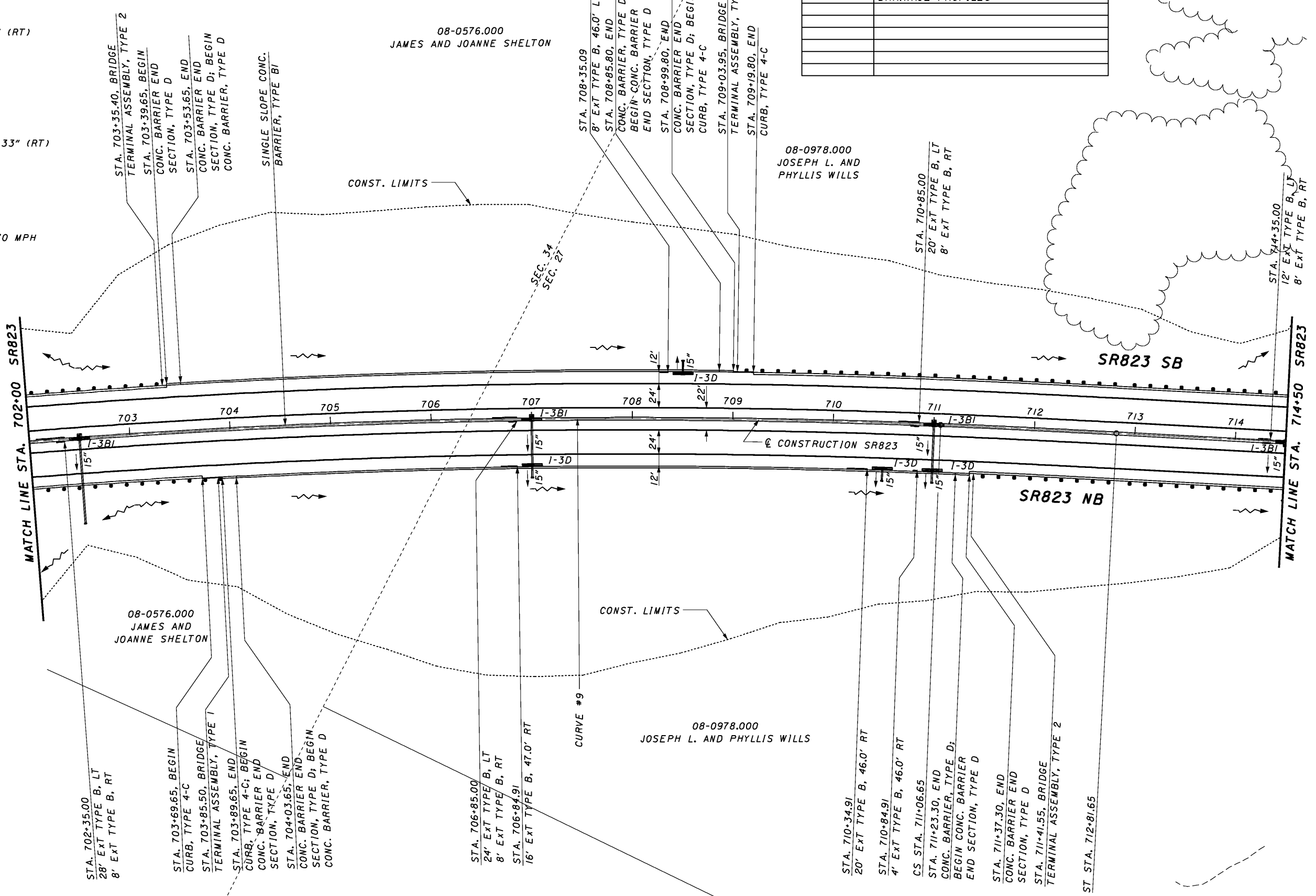
PROFILE - SR823
STA. 689+50 TO STA. 702+00

SCI-823-10.13

CURVE # 9

P.I. STA. = 672+28.25
 DELTA = 69° 28' 18" (RT)
 Dc = 0° 45' 00"
 R = 7,639.44'
 Ls = 175.00'
 Theta = 0° 39' 23" (RT)
 LT = 116.67'
 ST = 58.33'
 x = 175.00'
 y = 0.67'
 k = 87.50'
 p = 0.17'
 DELTA_c = 68° 09' 33" (RT)
 Lc = 9,087.88'
 Tc = 5,168.32'
 Ts = 5,384.48'
 Es = 1,656.88'
 Emax. = 0.028
 DESIGN SPEED = 70 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	DRAINAGE PROFILES

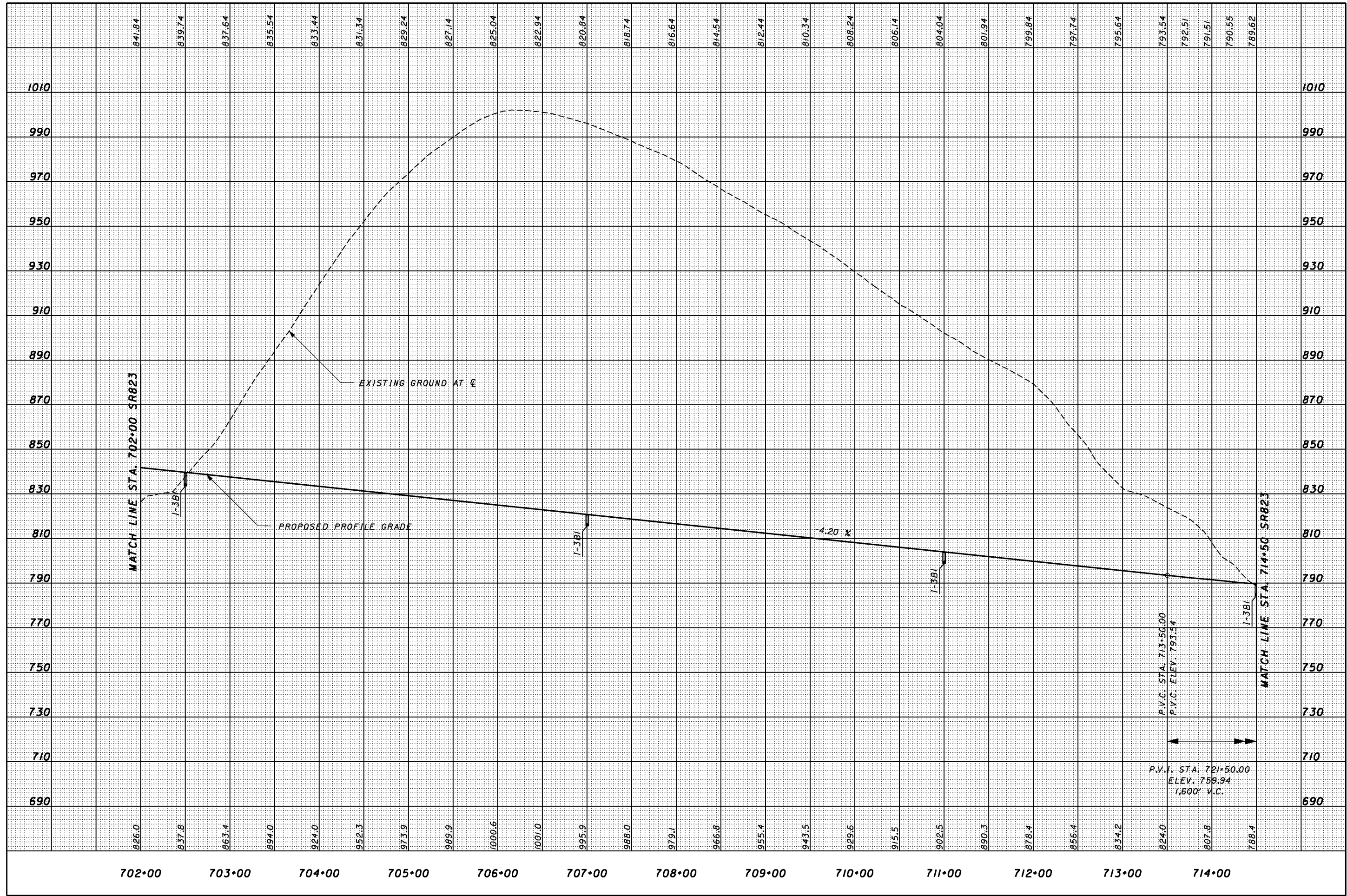


PLAN - SR823
 STA. 702+00.00 TO STA. 714+50.00

SCI-823-10.13

1/28/2008 3:12:43 PM g:\c03\0064\road\phase 2\79917\p53_sr823.sht

1/28/2008 3:12:45 PM g:\co03\0064\road\phase 2\79917of53_sr823.sht



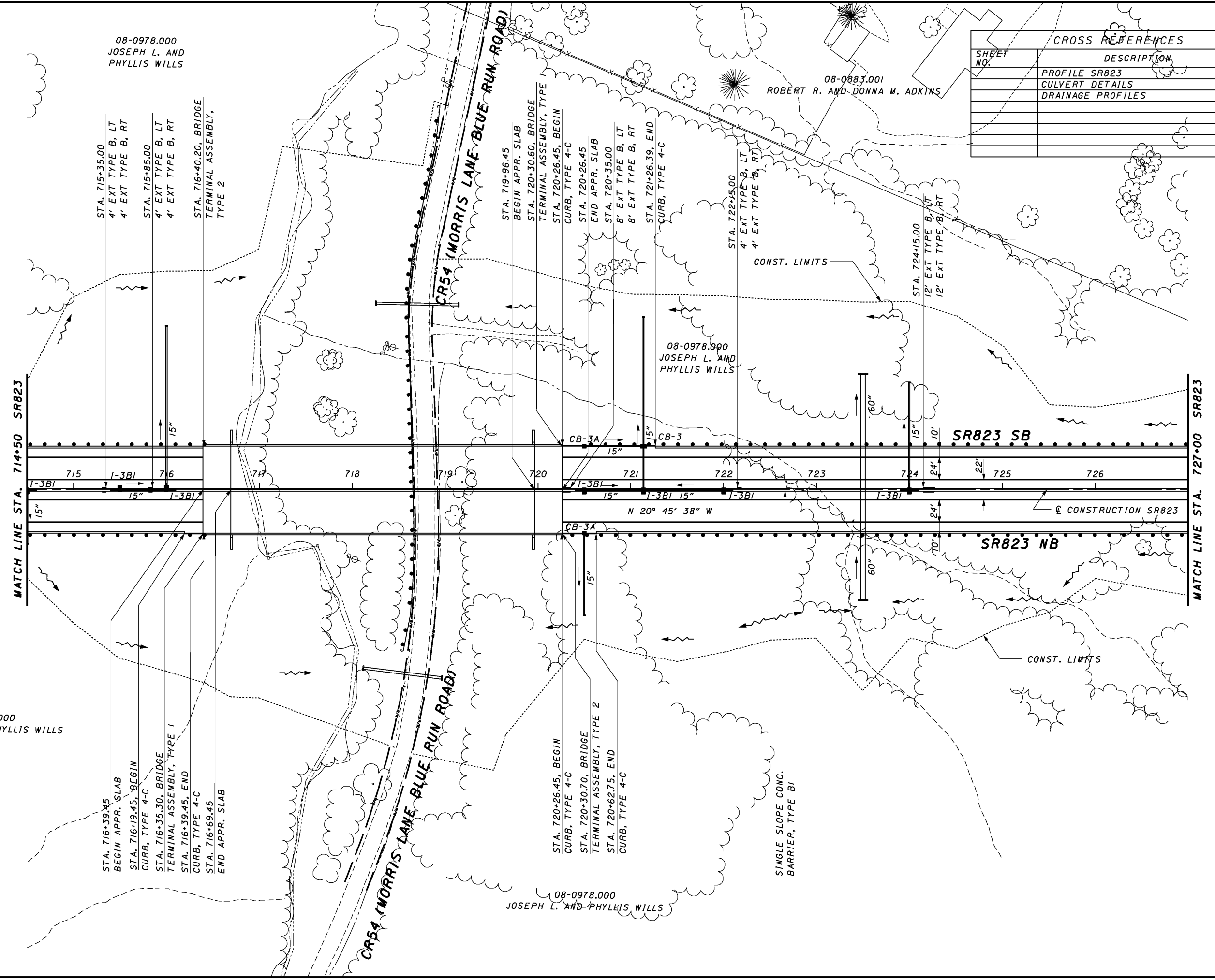
CALCULATED
JFA
CHECKED
RN

PROFILE - SR823
STA. 702+00 TO STA. 714+50

SCI-823-10.13

1/28/2008 3:12:54 PM g:\c03\0064\road\phase 2\79917\p54_sr823.sht

08-0978.000
JOSEPH L. AND PHYLLIS WILLS



STA. 716+39.45
BEGIN APPR. SLAB
STA. 716+19.45, BEGIN
CURB, TYPE 4-C
STA. 716+35.30, BRIDGE
TERMINAL ASSEMBLY, TYPE 1
STA. 716+39.45, END
CURB, TYPE 4-C
STA. 716+69.45
END APPR. SLAB

STA. 715+35.00
4' EXT TYPE B, LT
4' EXT TYPE B, RT
STA. 715+85.00
4' EXT TYPE B, LT
4' EXT TYPE B, RT
STA. 716+40.20, BRIDGE
TERMINAL ASSEMBLY,
TYPE 2

STA. 720+26.45, BEGIN
CURB, TYPE 4-C
STA. 720+30.70, BRIDGE
TERMINAL ASSEMBLY, TYPE 2
STA. 720+62.75, END
CURB, TYPE 4-C

08-0978.000
JOSEPH L. AND PHYLLIS WILLS

STA. 719+96.45
BEGIN APPR. SLAB
STA. 720+30.60, BRIDGE
TERMINAL ASSEMBLY, TYPE
STA. 720+26.45, BEGIN
CURB, TYPE 4-C
STA. 720+26.45
END APPR. SLAB
STA. 720+35.00
8' EXT TYPE B, LT
8' EXT TYPE B, RT
STA. 721+26.39, END
CURB, TYPE 4-C

SINGLE SLOPE CONC.
BARRIER, TYPE BI

08-0883.001
ROBERT R. AND DONNA M. ADKINS

08-0978.000
JOSEPH L. AND
PHYLLIS WILLS

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	CULVERT DETAILS
	DRAINAGE PROFILES

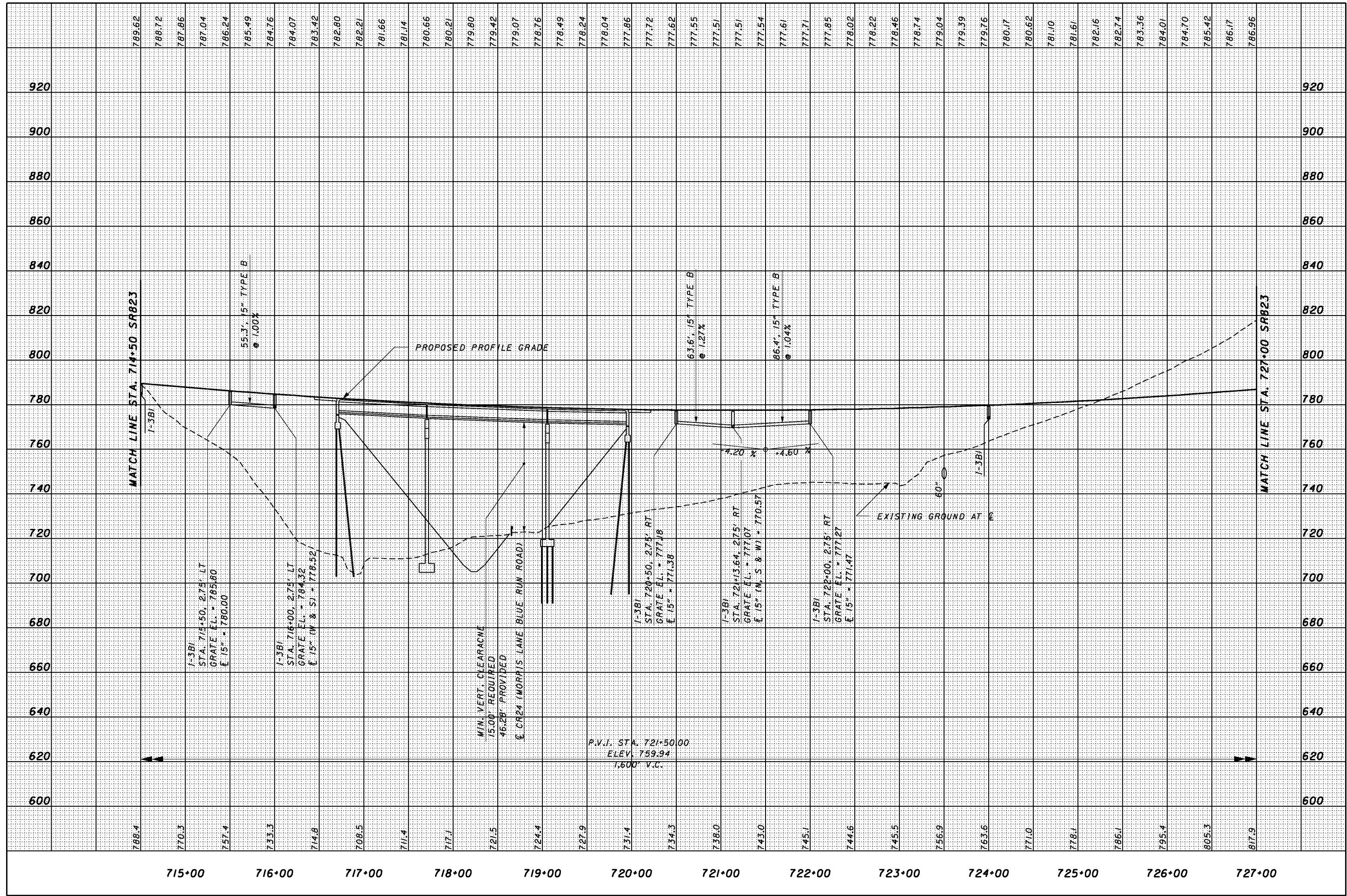
CALCULATED DL
CREATED RW

HORIZONTAL SCALE IN FEET

PLAN - SR823
STA. 714+50.00 TO STA. 727+00.00

SCI-823-10.13

1/28/2008 3:12:56 PM g:\co03\0064\road\phase 2\791710f54_sr823.sht



MATCH LINE STA. 714+50 SR823

MATCH LINE STA. 727+00 SR823

PROPOSED PROFILE GRADE

EXISTING GROUND AT

I-3BI
STA. 714+50, 275' LT
GRATE E.L. = 785.80
E 15% = 780.00

I-3BI
STA. 716+00, 275' LT
GRATE E.L. = 784.32
E 15% (W & S) = 778.52

I-3BI
STA. 720+50, 275' RT
GRATE E.L. = 777.18
E 15% = 771.38

I-3BI
STA. 721+3.64, 275' RT
GRATE E.L. = 777.07
E 15% (N, S & W) = 770.57

I-3BI
STA. 722+00, 275' RT
GRATE E.L. = 777.27
E 15% = 771.47

MIN. VERT. CLEARANCE
15.00' REQUIRED
46.28' PROVIDED
C CR24 (MORRIS LANE BLUE RUN ROAD)

P.V.I. STA. 721+50.00
ELEV. 759.94
1.600% V.C.

55.3', 15" TYPE B
@ 1.00%

63.6', 15" TYPE B
@ 1.27%

86.4', 15" TYPE B
@ 1.04%

40"

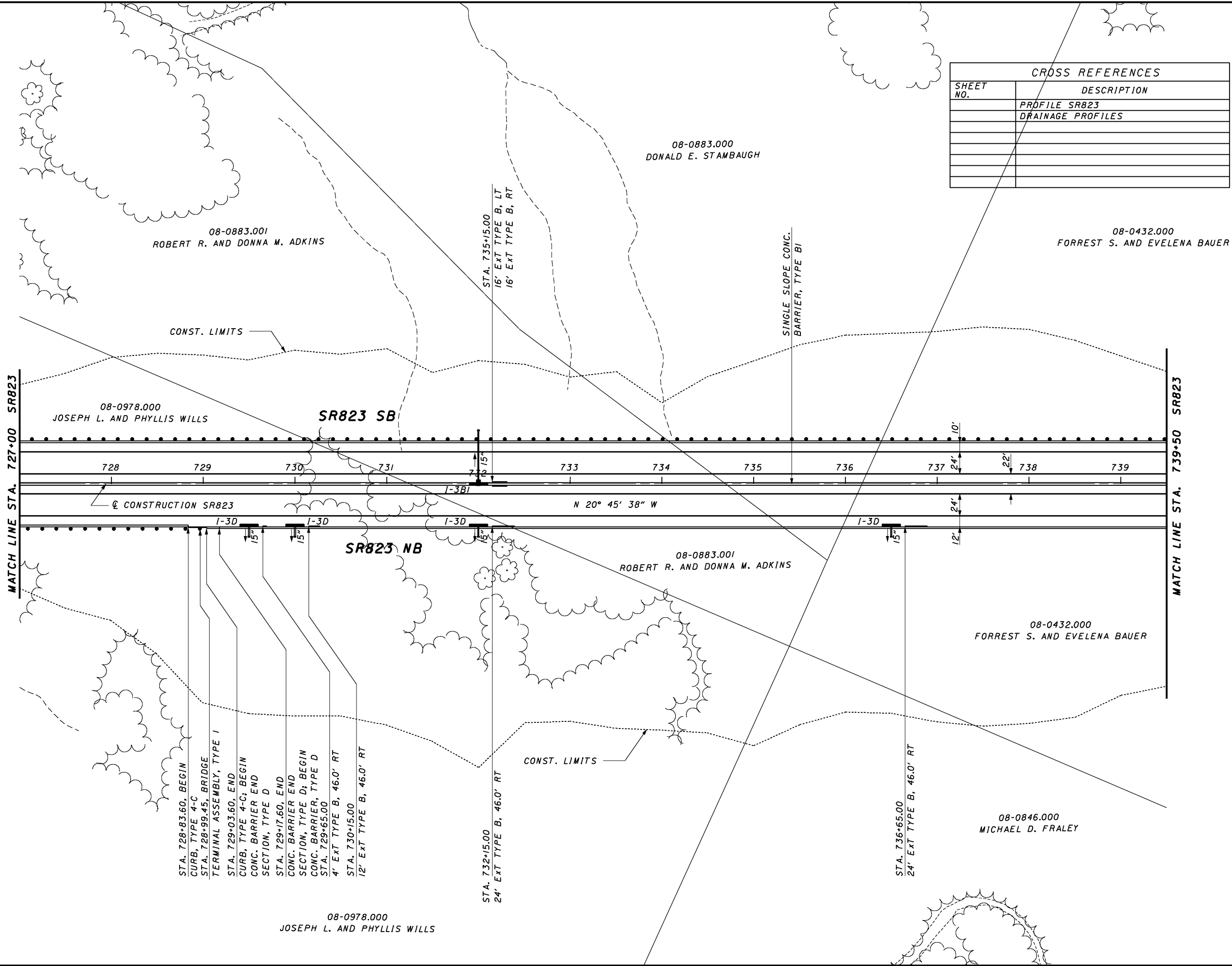
715+00 716+00 717+00 718+00 719+00 720+00 721+00 722+00 723+00 724+00 725+00 726+00 727+00

CALCULATED
JFA
CHECKED
RN

PROFILE - SR823
STA. 714+50 TO STA. 727+00

SCI-823-10.13

1/28/2008 1:28:06 PM g:\c003\0064\road\phase 2\79917\p55_sr823.sht



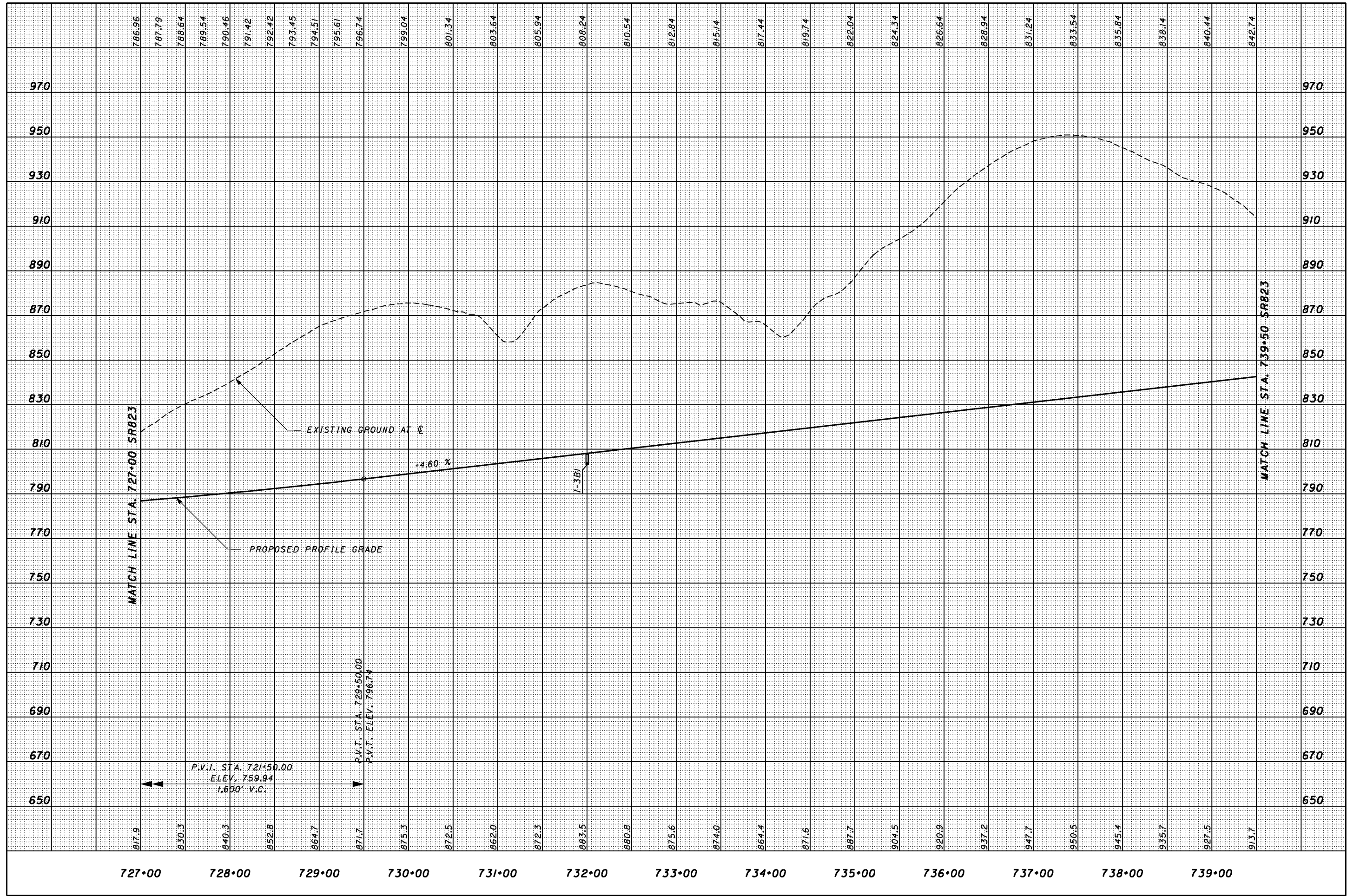
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	DRAINAGE PROFILES

HORIZONTAL SCALE IN FEET

CALCULATED DL
 CHECKED RW

PLAN - SR823
STA. 727+00.00 TO STA. 739+50.00

1/28/2008 3:08 PM g:\co03\0064\road\phase 2\79171f55_sr823.sht



CALCULATED
JFA
CHECKED
RN

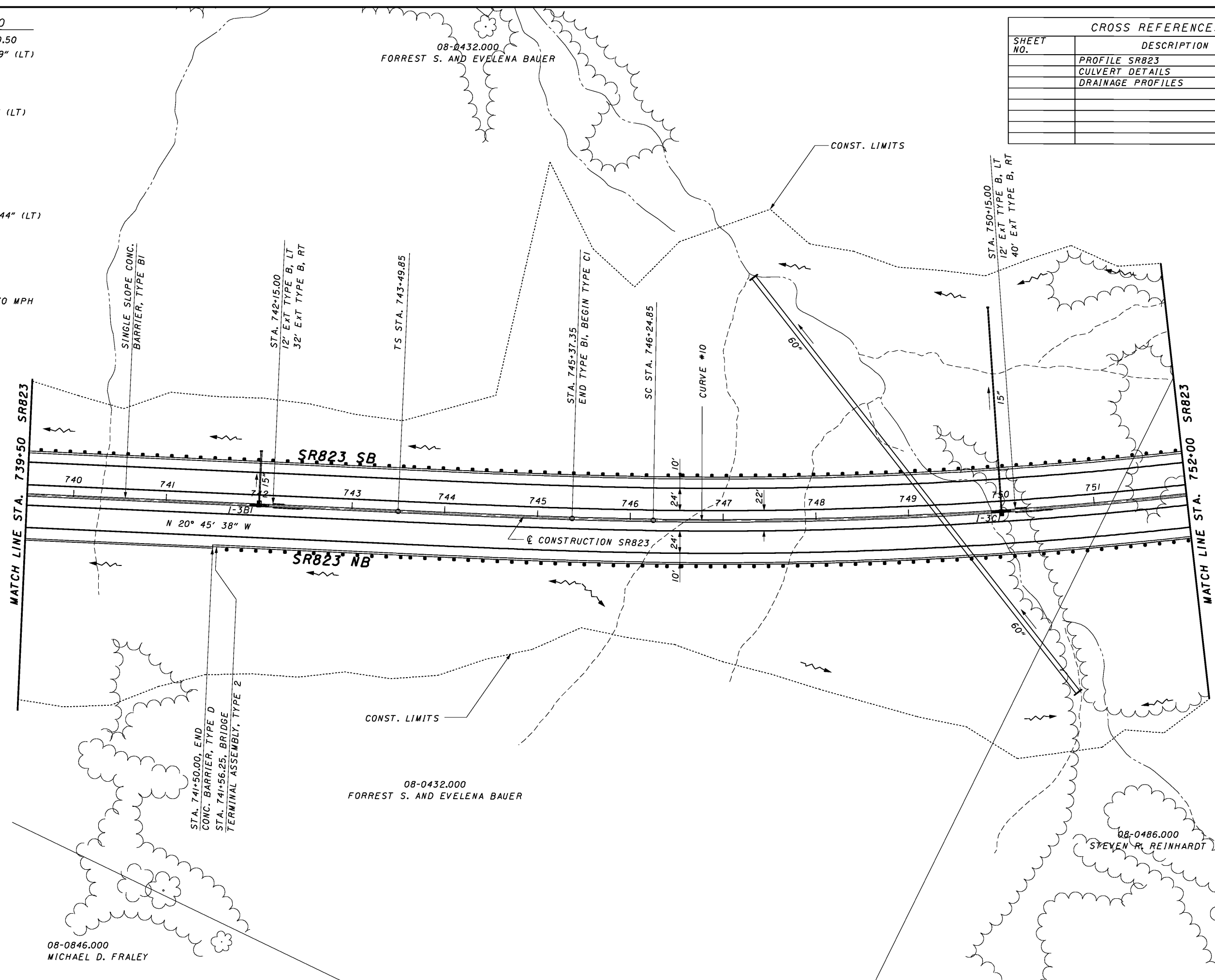
PROFILE - SR823
STA. 727+00 TO STA. 739+50

SCI-823-10.13

CURVE # 10

P.I. STA. = 795+00.50
 DELTA = 95° 06' 59" (LT)
 Dc = 1° 15' 00"
 R = 4,583.66'
 Ls = 275.00'
 Theta = 1° 43' 08" (LT)
 LT = 183.34'
 ST = 91.67'
 x = 274.98'
 y = 2.75'
 k = 137.50'
 p = 0.69'
 DELTA_c = 91° 40' 44" (LT)
 Lc = 7,334.31'
 Tc = 4,719.98'
 Ts = 5,150.65'
 Es = 2,209.57'
 Emax. = 0.044
 DESIGN SPEED = 70 MPH

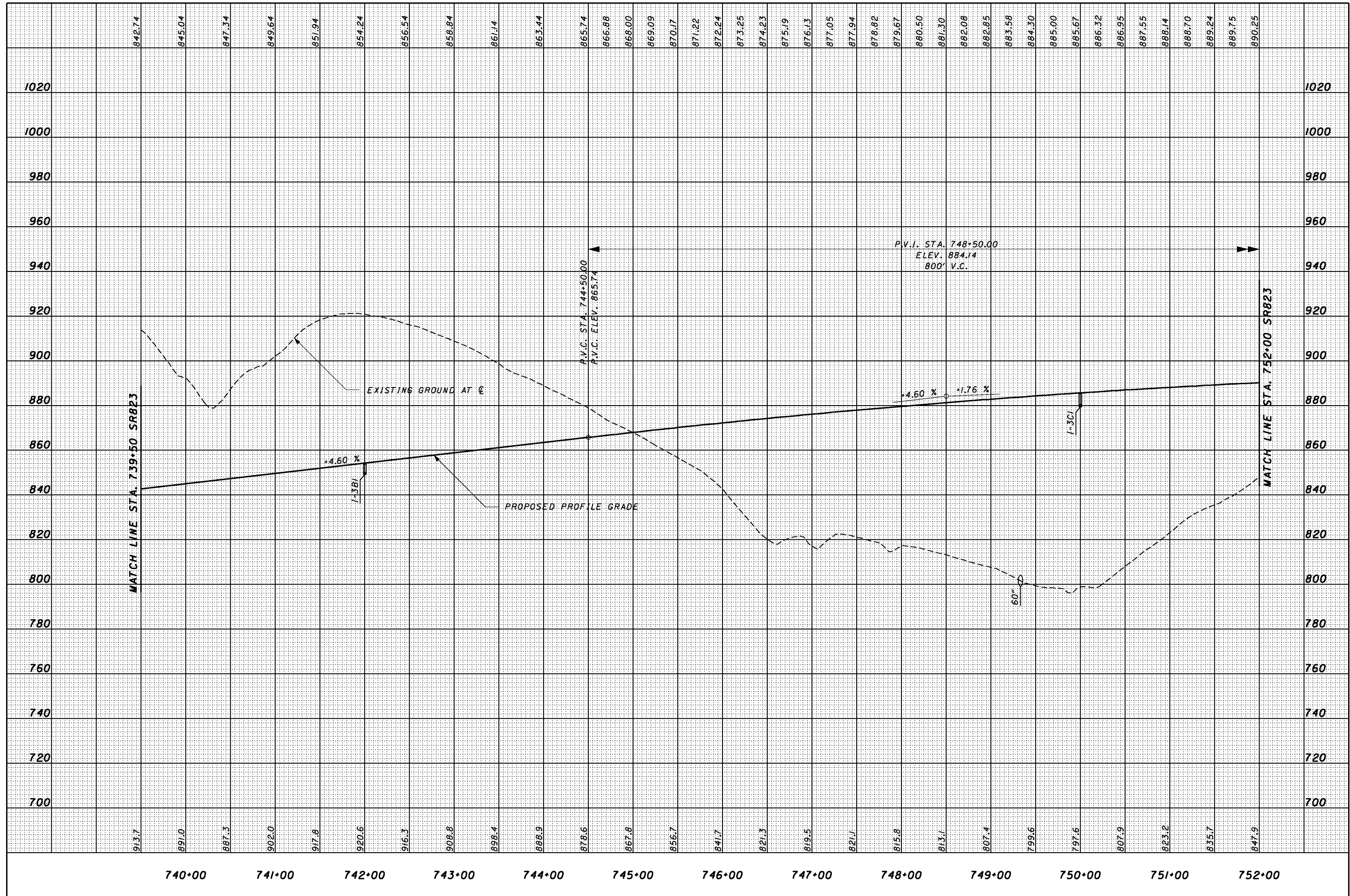
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	CULVERT DETAILS
	DRAINAGE PROFILES



PLAN - SR823
STA. 739+50.00 TO STA. 752+00.00

SCI-823-10.13

1/28/2008 1:28:20 PM g:\co03\0064\road\phase 2\79917\p56_sr823.sht



CALCULATED
JFA
CHECKED
RN

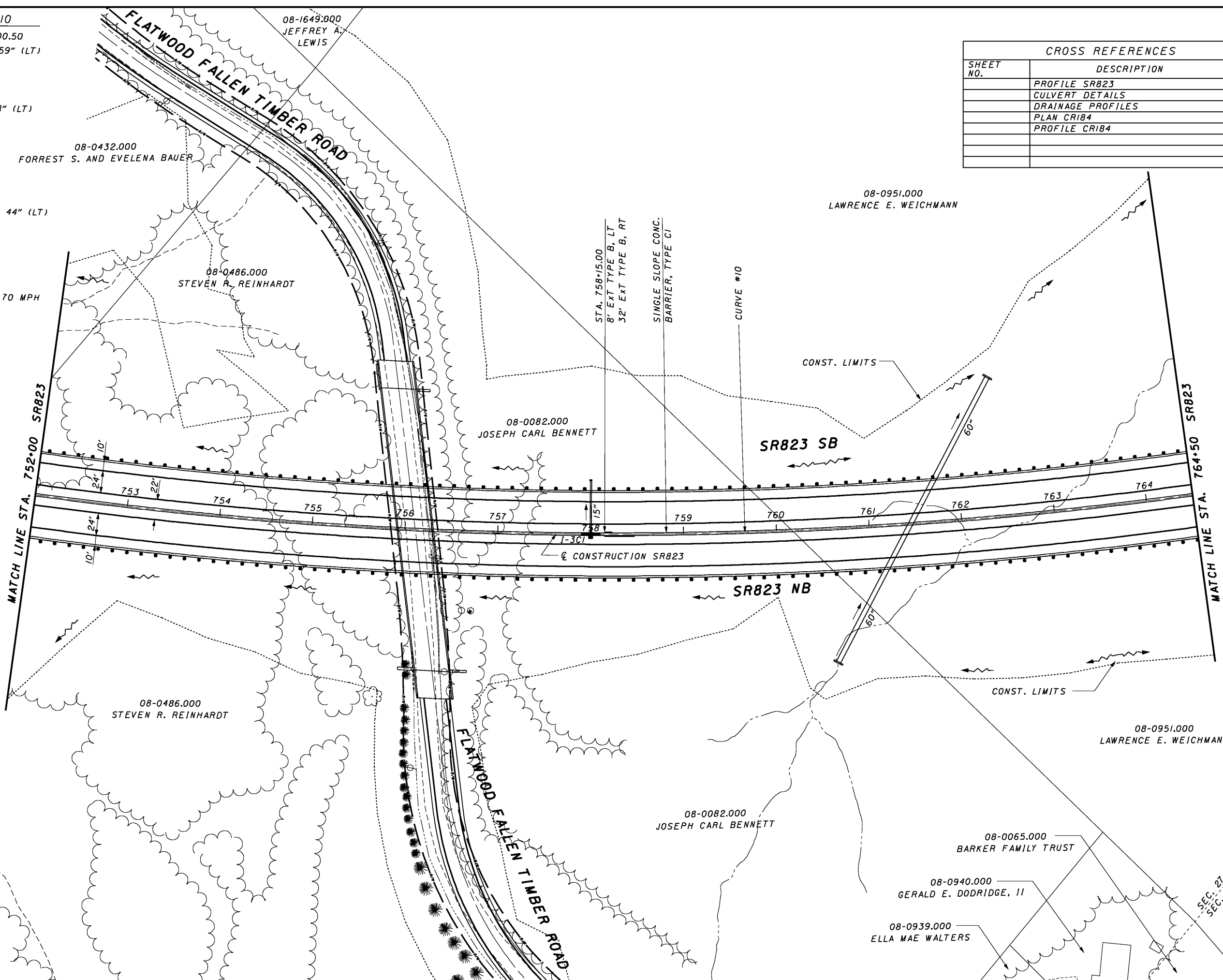
PROFILE - SR823
STA. 739+50 TO STA. 752+00

SCI-823-10.13

CURVE # 10

P.I. STA. = 795+00.50
 DELTA = 95° 06' 59" (LT)
 Dc = 1° 15' 00"
 R = 4,583.66'
 Ls = 275.00'
 Theta = 1° 43' 08" (LT)
 LT = 183.34'
 ST = 91.67'
 x = 274.98'
 y = 2.75'
 k = 137.50'
 p = 0.69'
 DELTA_c = 91° 40' 44" (LT)
 Lc = 7,334.31'
 Tc = 4,719.98'
 Ts = 5,150.65'
 Es = 2,209.57'
 Emax. = 0.044
 DESIGN SPEED = 70 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	CULVERT DETAILS
	DRAINAGE PROFILES
	PLAN CR184
	PROFILE CR184

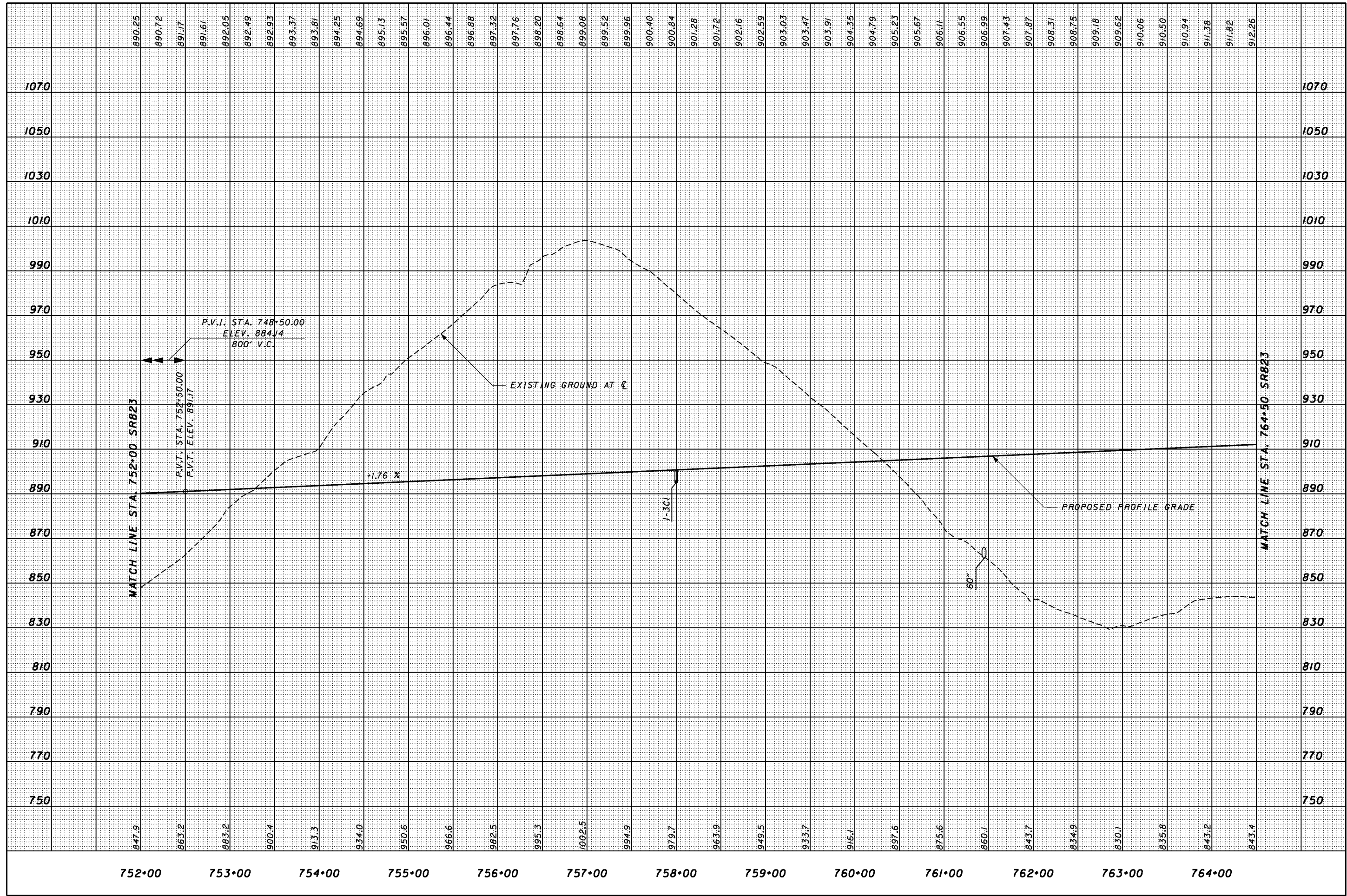


1/28/2008 11:33:30 PM g:\c03\0064\road\phase 2\79917\p51_sr823.sht

CALCULATED DL CHECKED RW
PLAN - SR823
STA. 752+00.00 TO STA. 764+50.00

SCI-823-10.13
 SEC. 27
 SEC. 22
 73

1/28/2008 3:33:32 PM g:\co03\0064\road\phase 2\79917of51_gr823.sht



CALCULATED
JFA
CHECKED
RN

**PROFILE - SR823
STA. 752+00 TO STA. 764+50**

SCI-823-10.13

CURVE # 10

P.I. STA. = 795+00.50
 DELTA = 95° 06' 59" (LT)
 Dc = 1° 15' 00"
 R = 4,583.66'
 Ls = 275.00'
 Theta = 1° 43' 08" (LT)
 LT = 183.34'
 ST = 91.67'
 x = 274.98'
 y = 2.75'
 k = 137.50'
 p = 0.69'
 DELTA_c = 91° 40' 44" (LT)
 Lc = 7,334.31'
 Tc = 4,719.98'
 Ts = 5,150.65'
 Es = 2,209.57'
 Emax. = 0.044
 DESIGN SPEED = 70 MPH

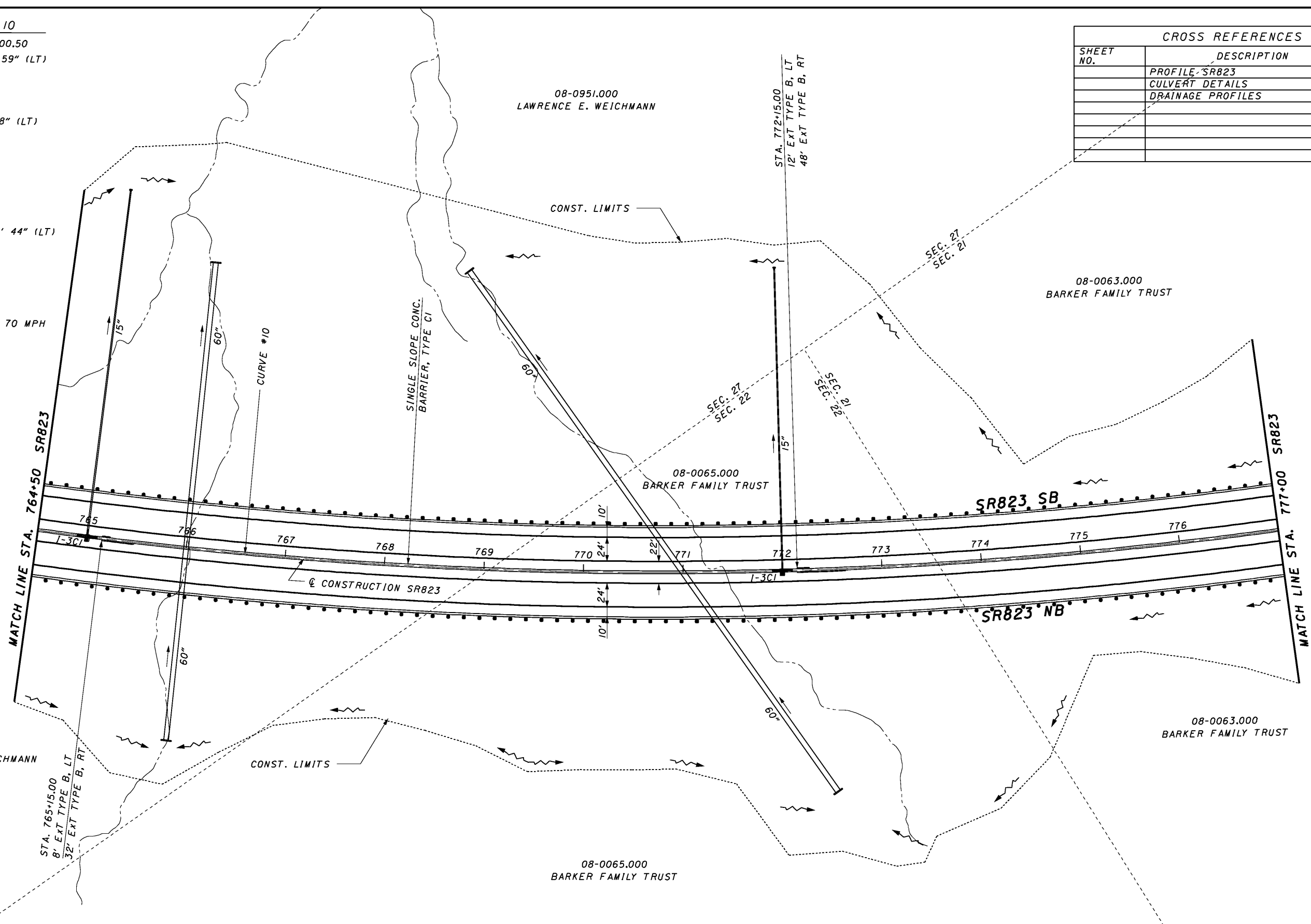
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE - SR823
	CULVERT DETAILS
	DRAINAGE PROFILES



CALCULATED DL
 CHECKED RW

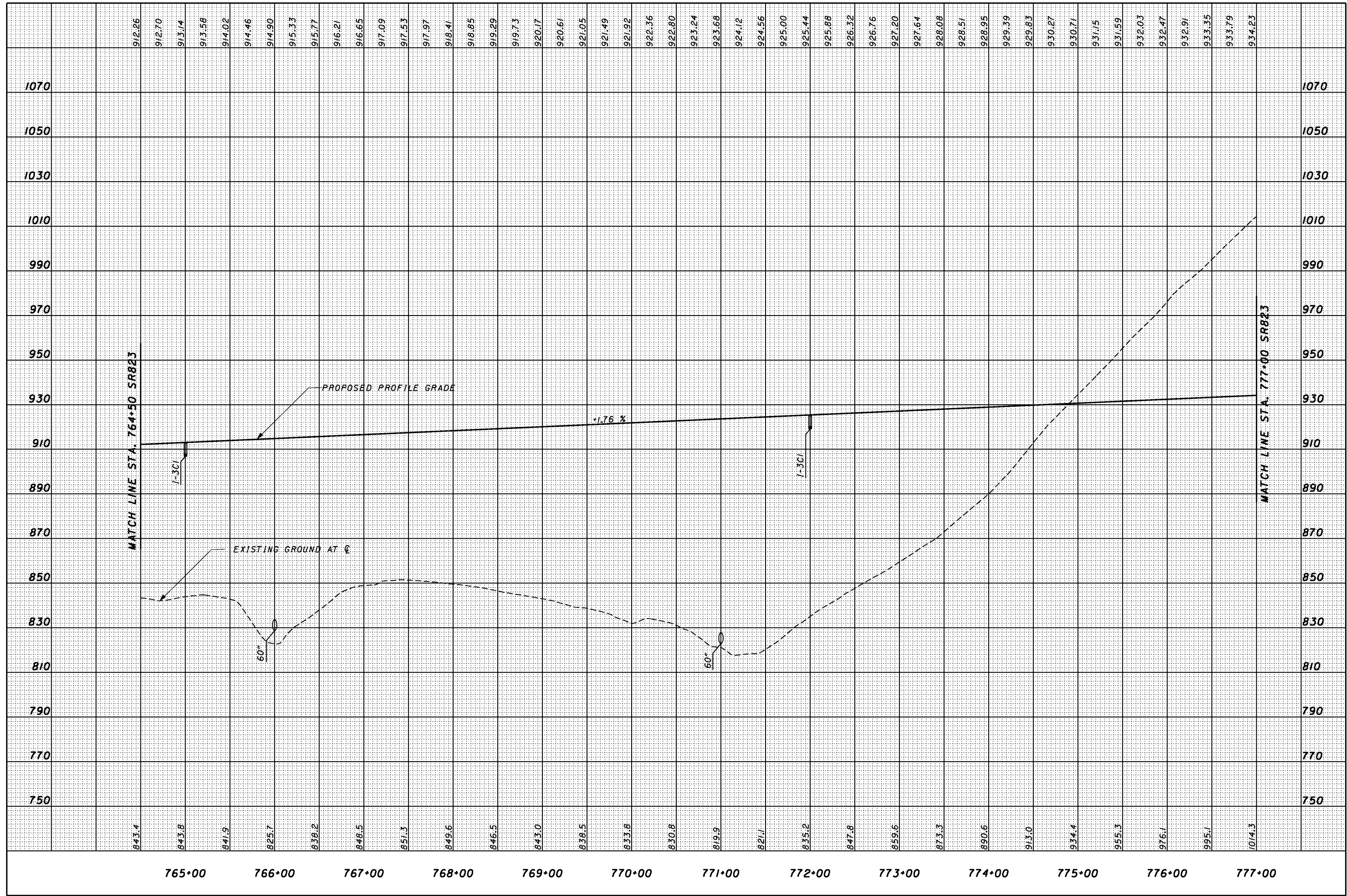
PLAN - SR823
STA. 764+50.00 TO STA. 777+00.00

SCI-823-10.13



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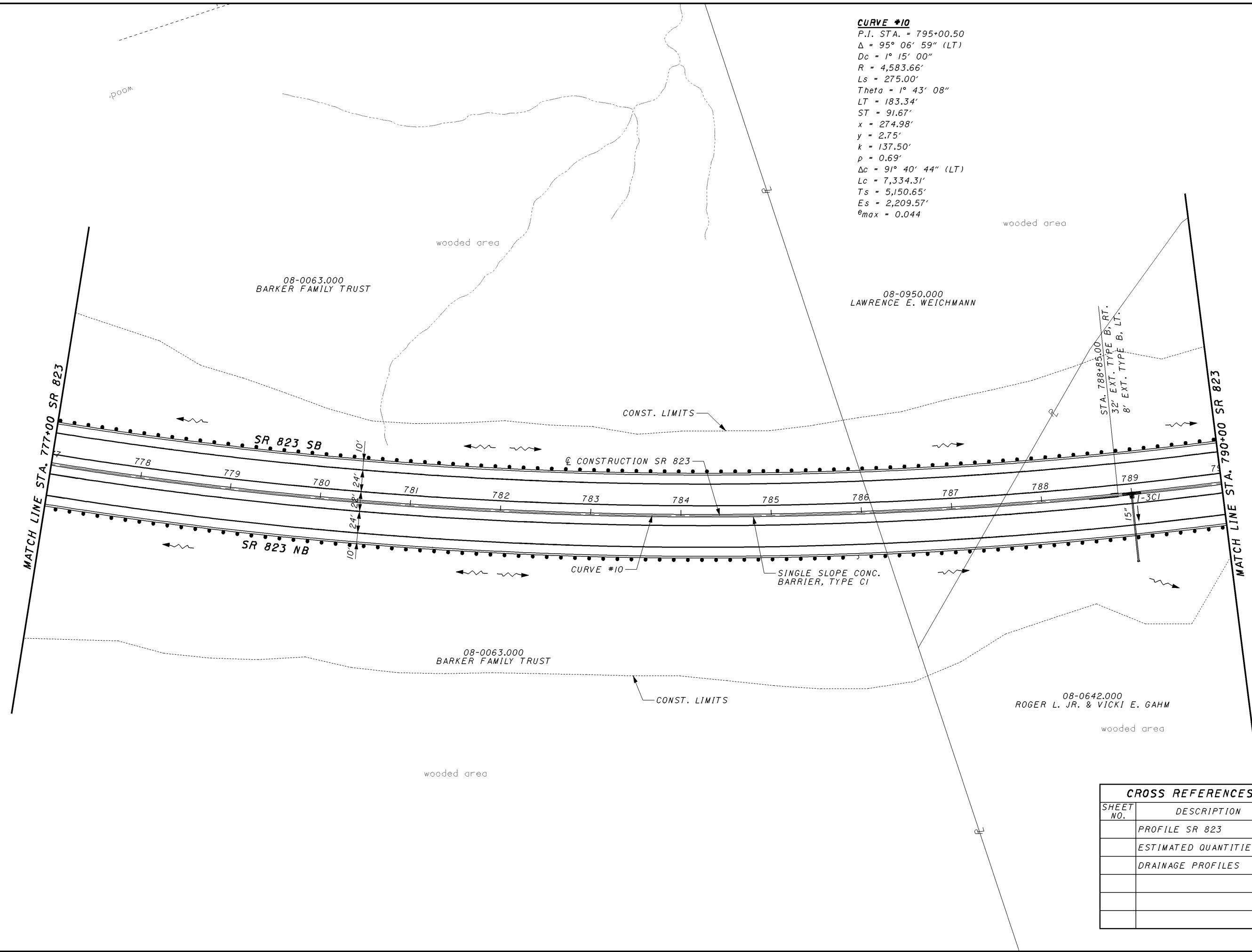


CALCULATED
JFA
CHECKED
RN

PROFILE - SR823
STA. 764+50 TO STA. 777+00

SCI-823-10.13

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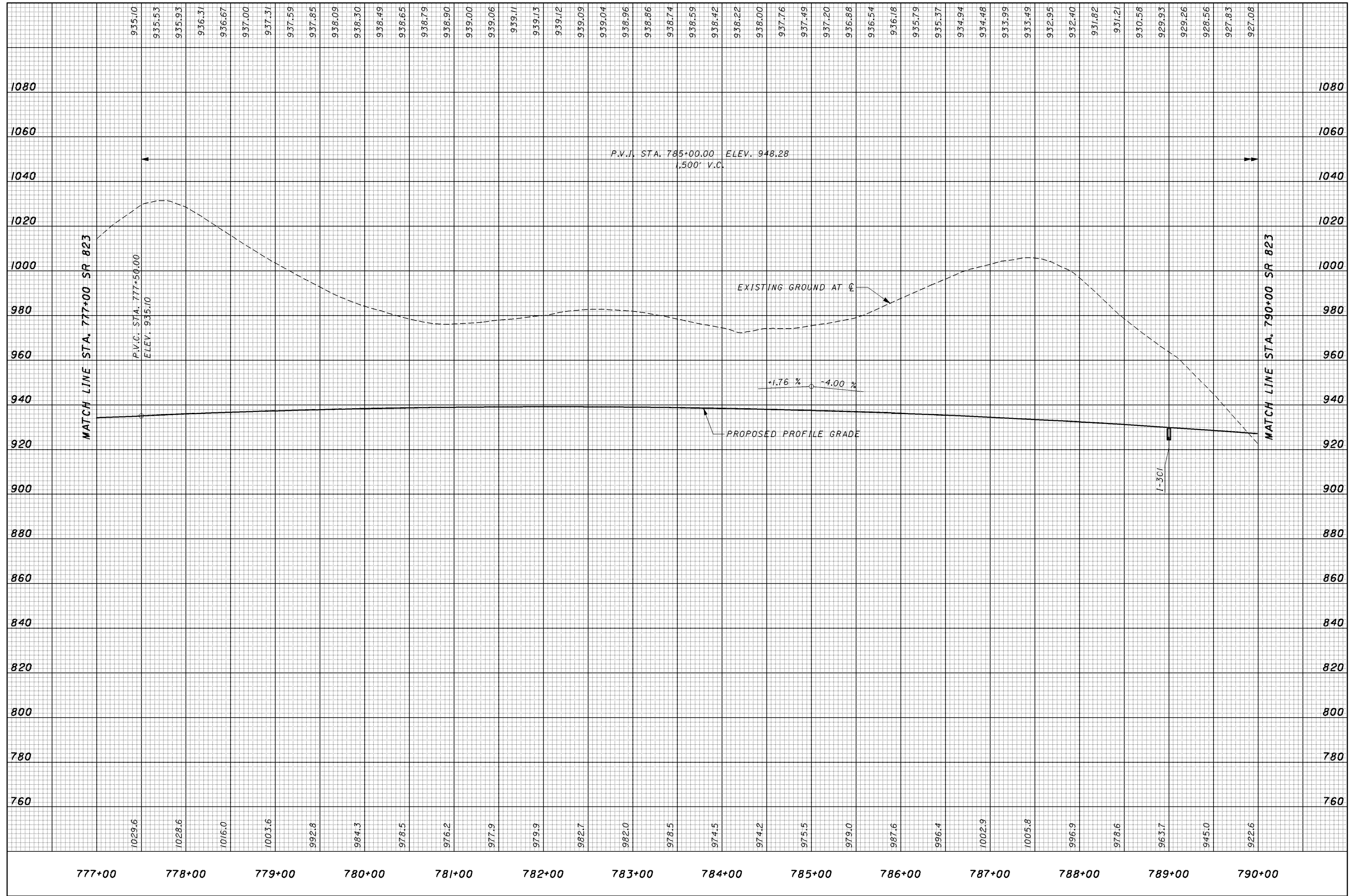
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 $Dc = 1^\circ 15' 00''$
 $R = 4,583.66'$
 $Ls = 275.00'$
 $\text{Theta} = 1^\circ 43' 08''$
 $LT = 183.34'$
 $ST = 91.67'$
 $x = 274.98'$
 $y = 2.75'$
 $k = 137.50'$
 $p = 0.69'$
 $\Delta c = 91^\circ 40' 44''$ (LT)
 $Lc = 7,334.31'$
 $Ts = 5,150.65'$
 $Es = 2,209.57'$
 $e_{max} = 0.044$

CALCULATED
 ADW
 CHECKED
 CTS

0 25 50 100
 HORIZONTAL
 SCALE IN FEET

PLAN - SR 823
STA. 777+00.00 TO STA. 790+00.00

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR 823
	ESTIMATED QUANTITIES
	DRAINAGE PROFILES



CALCULATED
ADW
CHECKED
CTS

PROFILE - SR 823
STA. 777+00.00 TO STA. 790+00.00

SCI-823-10.13

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08-0950.000
LAWRENCE E. WEICHMANN

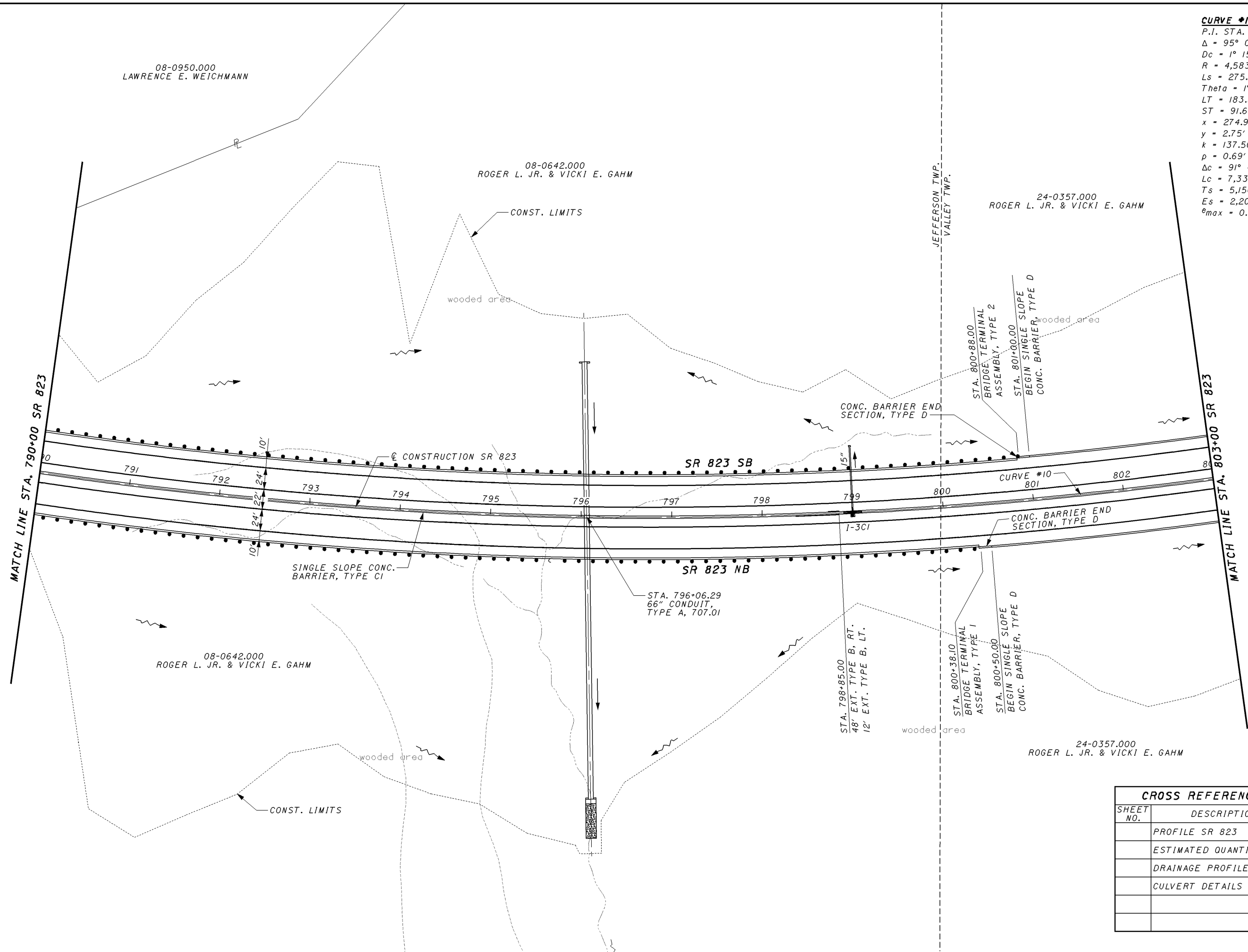
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ROGER L. JR. & VICKI E. GAHM

24-0357.000
ROGER L. JR. & VICKI E. GAHM

08-0642.000
ROGER L. JR. & VICKI E. GAHM

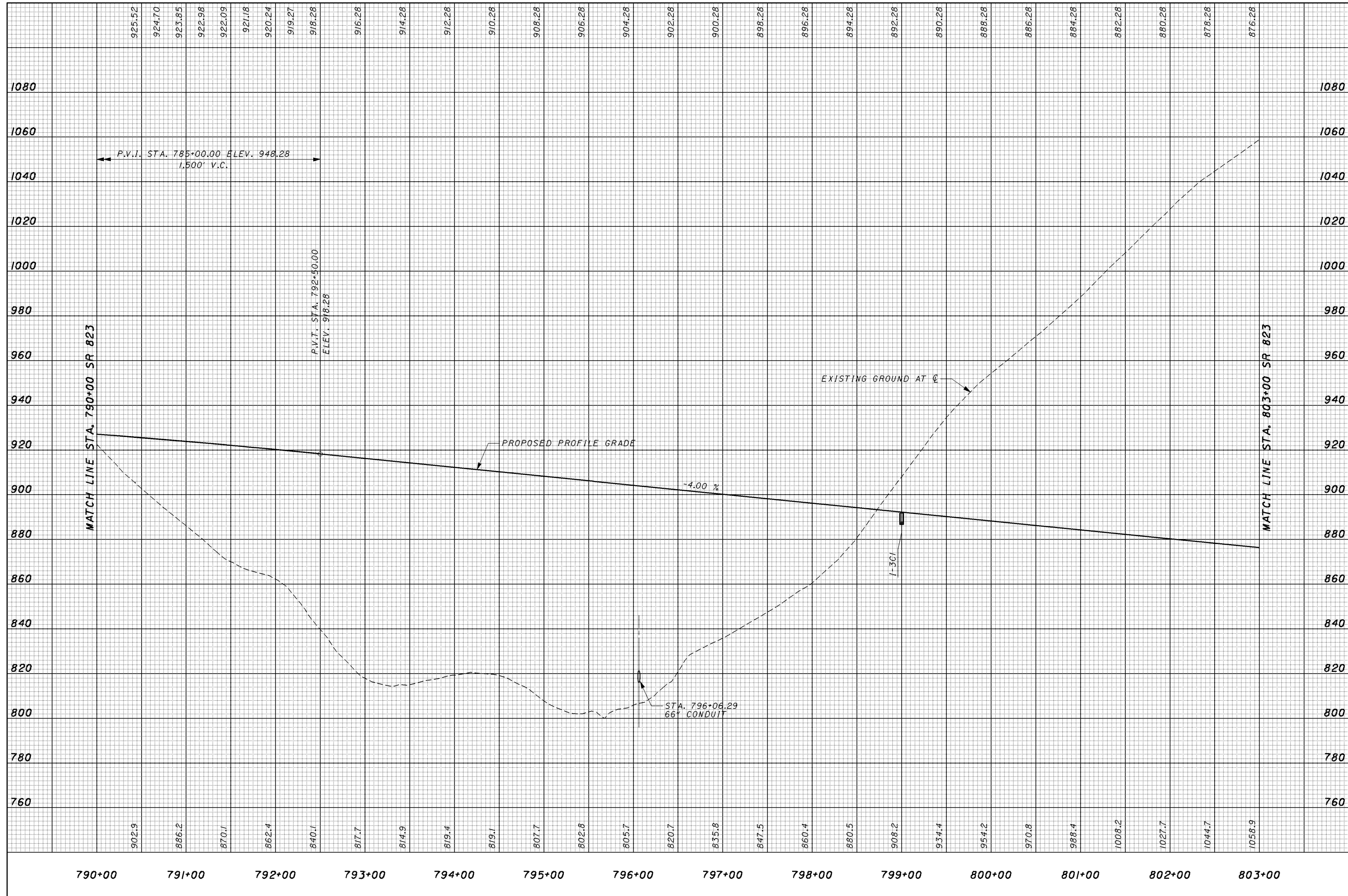
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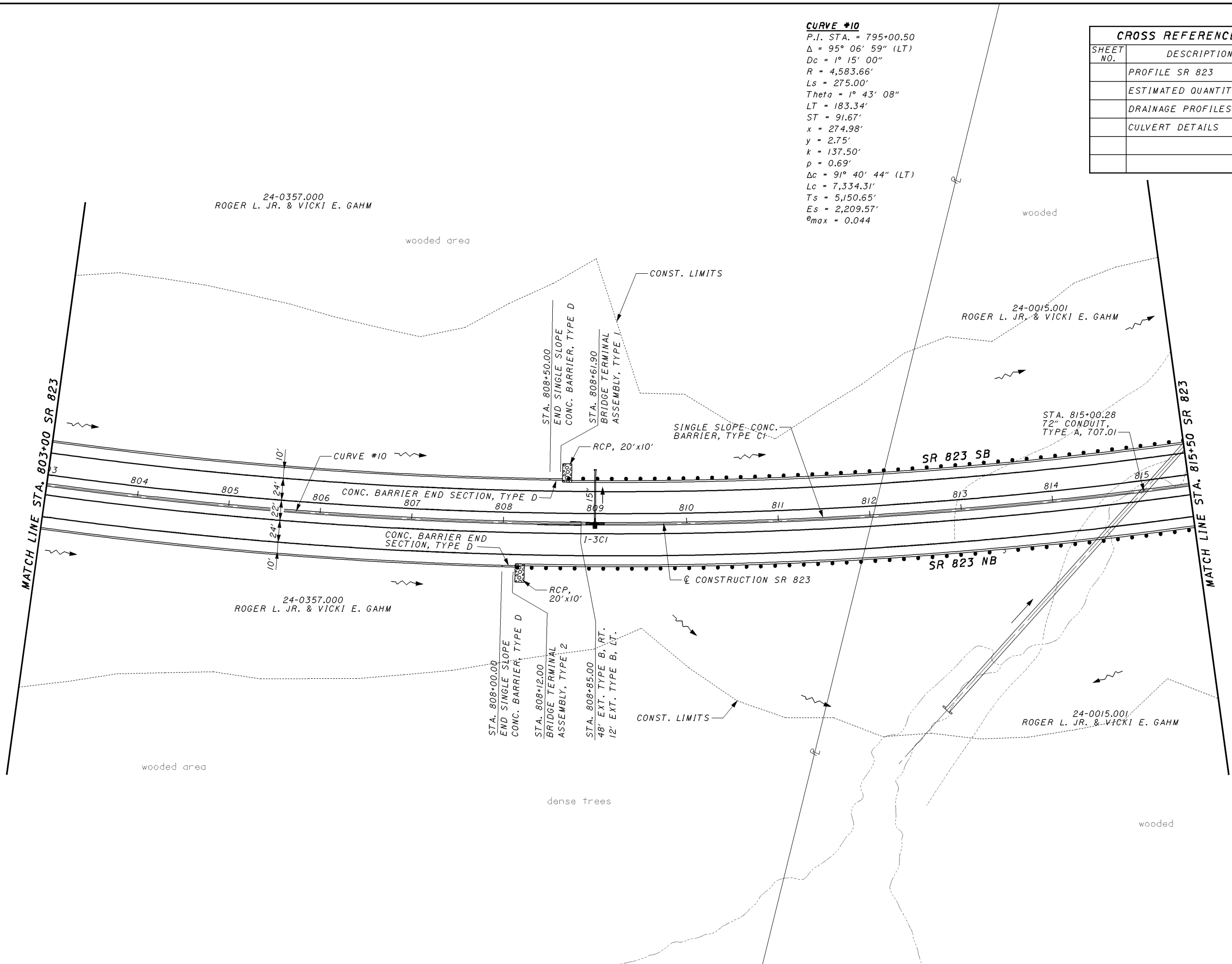
CURVE #10
 P.I. STA. = 795+00.50
 $\Delta = 95^\circ 06' 59''$ (LT)
 $D_c = 1^\circ 15' 00''$
 $R = 4,583.66'$
 $L_s = 275.00'$
 $\text{Theta} = 1^\circ 43' 08''$
 $LT = 183.34'$
 $ST = 91.67'$
 $x = 274.98'$
 $y = 2.75'$
 $k = 137.50'$
 $p = 0.69'$
 $\Delta_c = 91^\circ 40' 44''$ (LT)
 $L_c = 7,334.31'$
 $T_s = 5,150.65'$
 $E_s = 2,209.57'$
 $e_{max} = 0.044$



PLAN - SR 823
STA. 790+00.00 TO STA. 803+00.00

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR 823
	ESTIMATED QUANTITIES
	DRAINAGE PROFILES
	CULVERT DETAILS





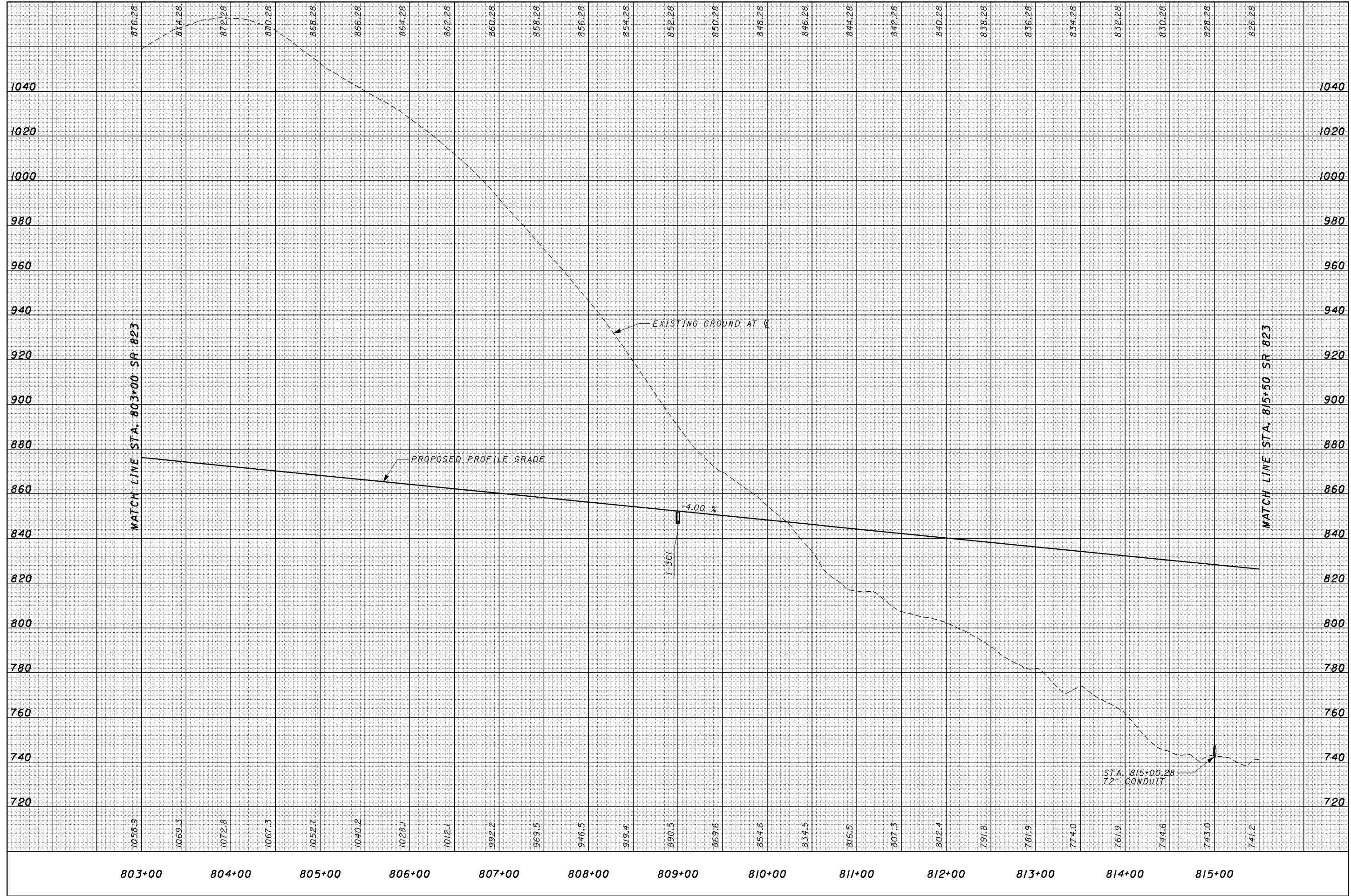
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 $\Delta = 95^\circ 06' 59''$ (LT)
 $D_c = 1^\circ 15' 00''$
 $R = 4,583.66'$
 $L_s = 275.00'$
 $\text{Theta} = 1^\circ 43' 08''$
 $LT = 183.34'$
 $ST = 91.67'$
 $x = 274.98'$
 $y = 2.75'$
 $k = 137.50'$
 $p = 0.69'$
 $\Delta c = 91^\circ 40' 44''$ (LT)
 $L_c = 7,334.31'$
 $T_s = 5,150.65'$
 $E_s = 2,209.57'$
 $e_{max} = 0.044$

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR 823
	ESTIMATED QUANTITIES
	DRAINAGE PROFILES
	CULVERT DETAILS

0 50 100
 25
 HORIZONTAL SCALE IN FEET

CALCULATED
 ADW
 CHECKED
 CTS

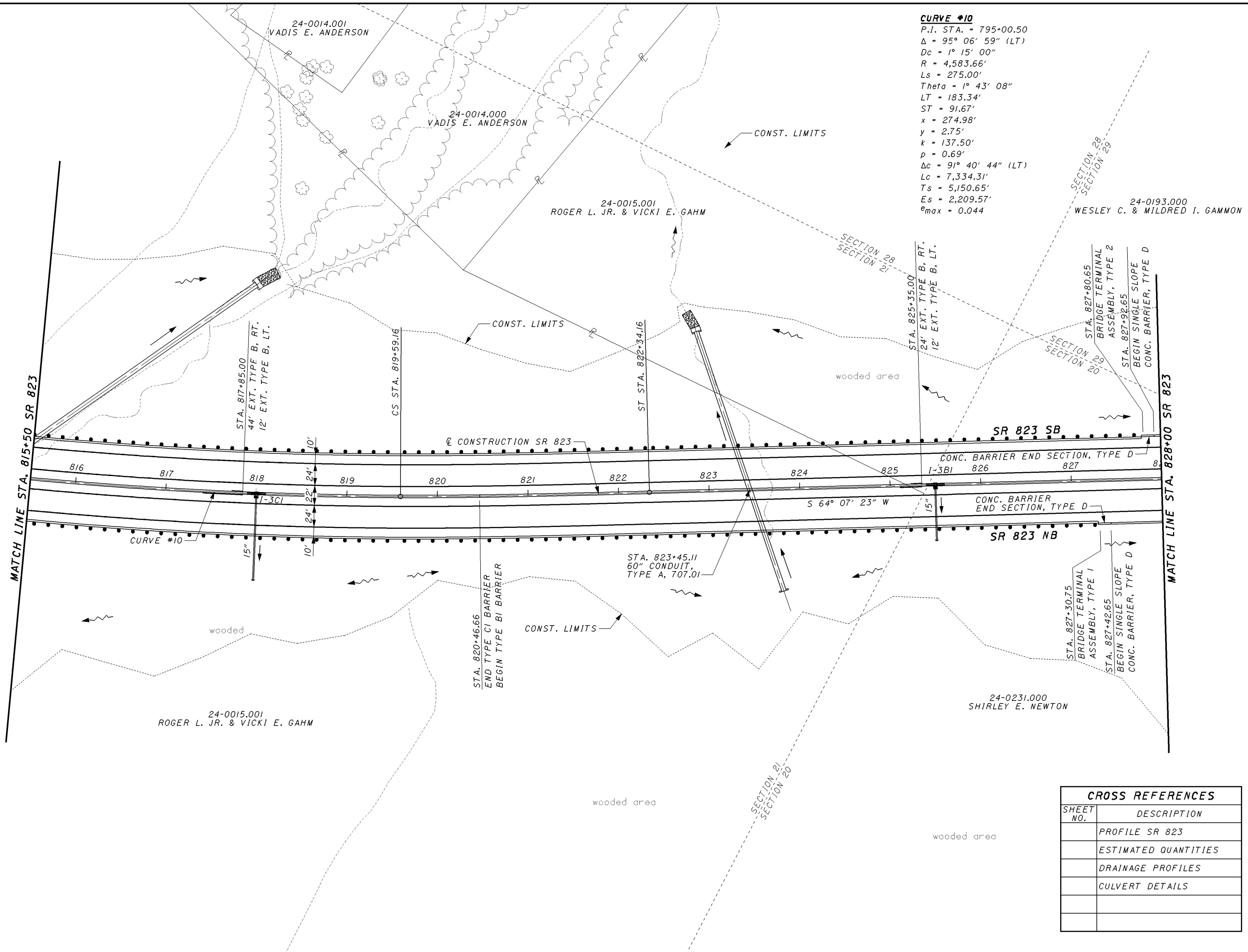
PLAN - SR 823
STA. 803+00.00 TO STA. 815+50.00



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CURVE #10
 P.I. STA. = 795+00.50
 $\Delta = 95^\circ 06' 59''$ (LT)
 $Dc = 1^\circ 15' 00''$
 $R = 4,583.66'$
 $Ls = 275.00'$
 $Theta = 1^\circ 43' 08''$
 $LT = 183.34'$
 $ST = 91.67'$
 $x = 274.98'$
 $y = 2.75'$
 $k = 137.50'$
 $p = 0.69'$
 $\Delta c = 91^\circ 40' 44''$ (LT)
 $Lc = 7,334.31'$
 $Ts = 5,150.65'$
 $Es = 2,209.57'$
 $e_{max} = 0.044$

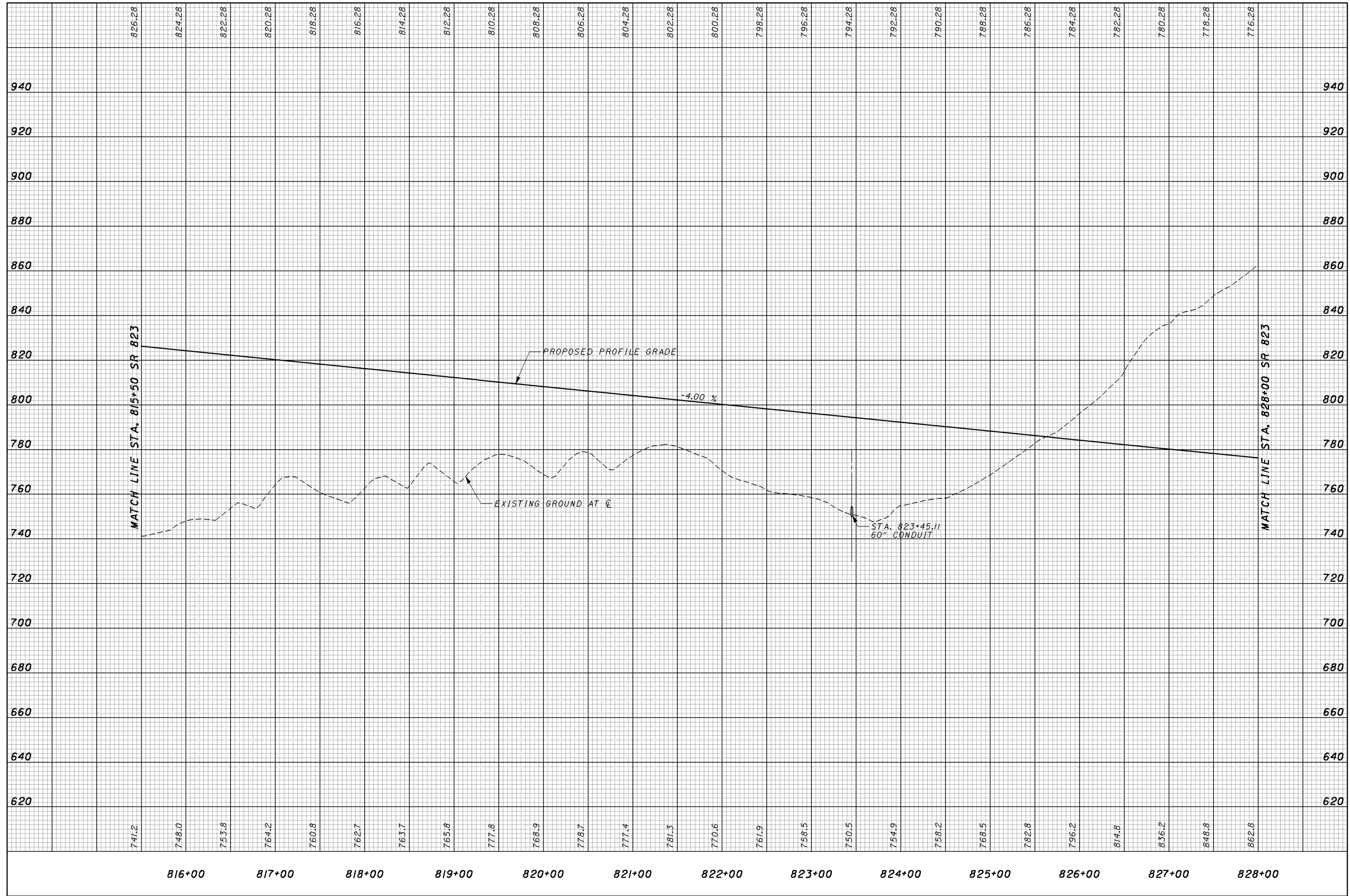
0 50 100
 HORIZONTAL SCALE IN FEET

CALCULATED
 ADW
 CHECKED
 CTS

PLAN - SR 823
STA. 815+50.00 TO STA. 828+00.00

SCI-823-10.13

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR 823
	ESTIMATED QUANTITIES
	DRAINAGE PROFILES
	CULVERT DETAILS



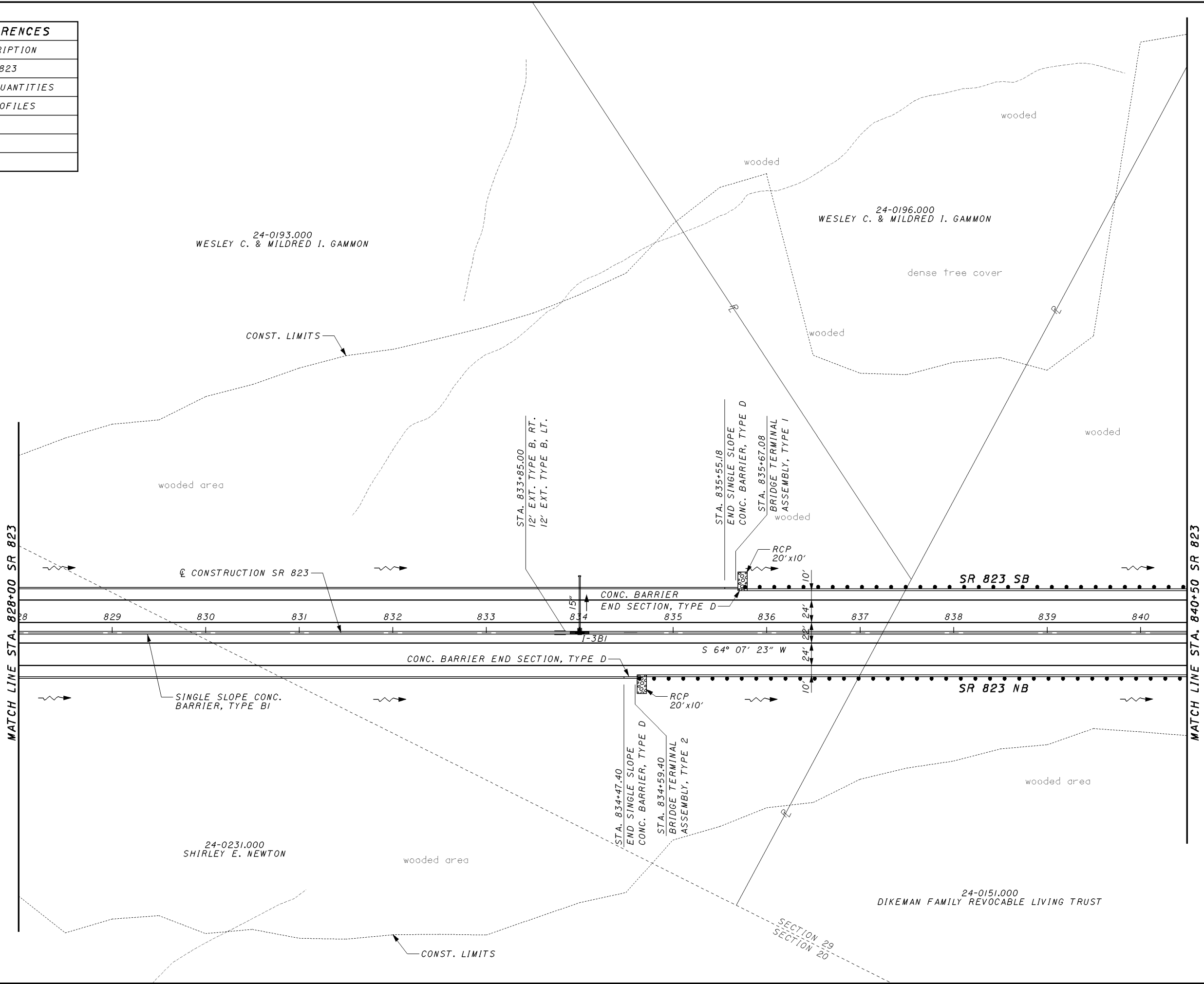
CALCULATED
ADW
CHECKED
CTS

PROFILE - SR 823
STA. 815+50.00 TO STA. 828+00.00

SCI-823-10.13

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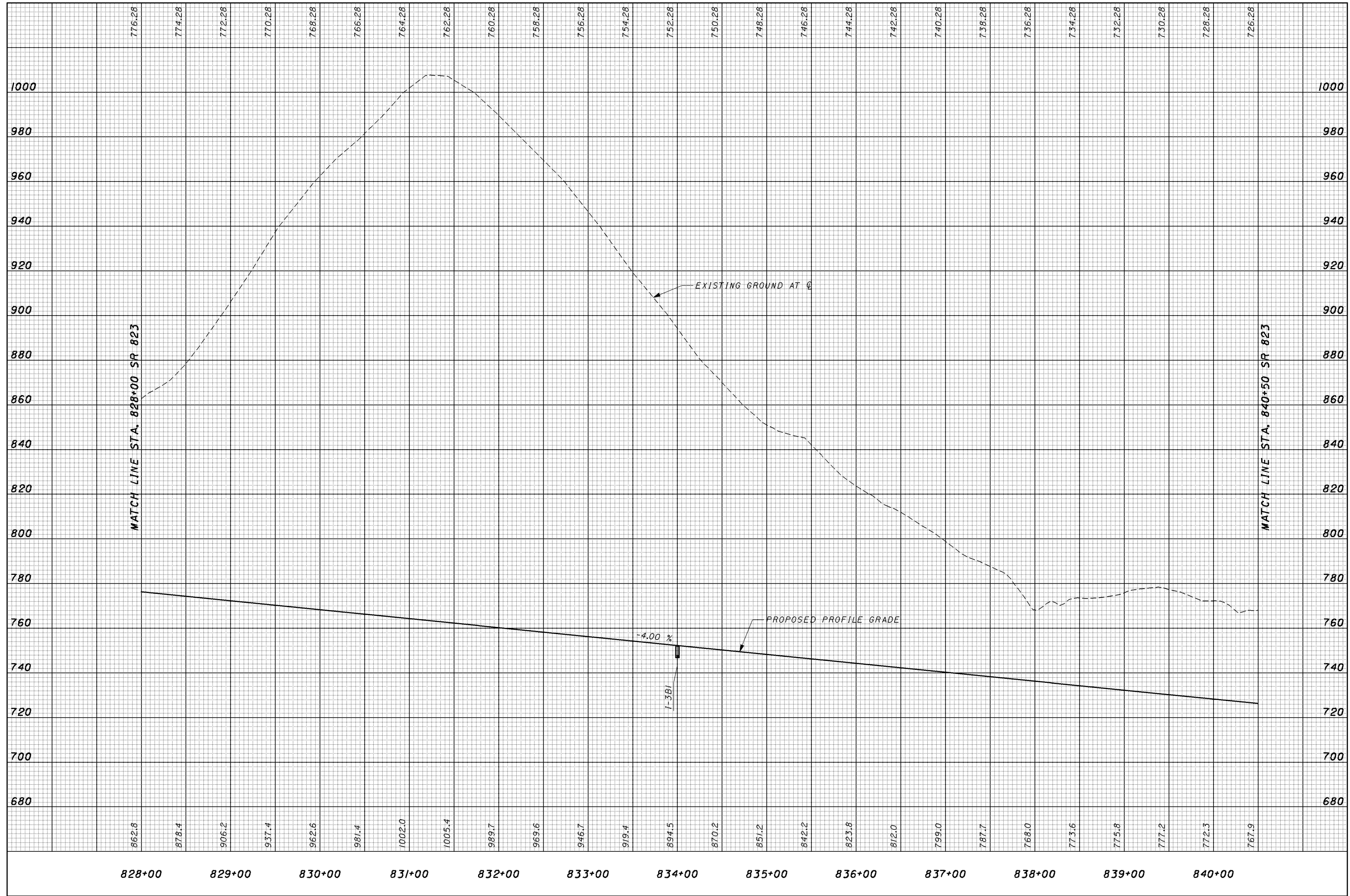
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR 823
	ESTIMATED QUANTITIES
	DRAINAGE PROFILES



CALCULATED
ADW
CHECKED
CTS

0 50 100
HORIZONTAL
SCALE IN FEET

PLAN - SR 823
STA. 828+00.00 TO STA. 840+50.00



CALCULATED
ADW
CHECKED
CTS

PROFILE - SR 823
STA. 828+00.00 TO STA. 840+50.00

SCI-823-10.13

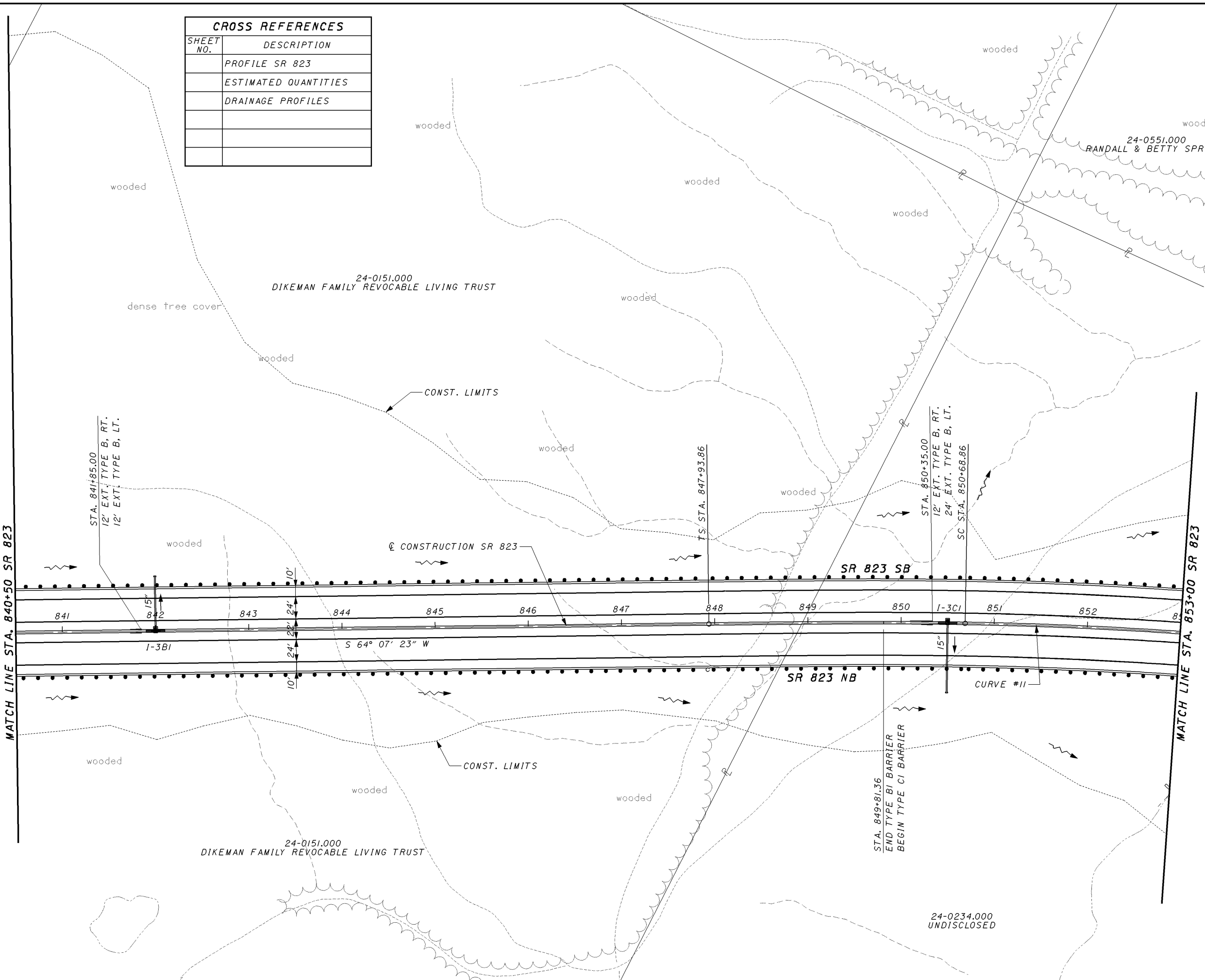
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CURVE #11
 P.I. STA. = 860+29.25
 $\Delta = 27^\circ 28' 56''$ (RT)
 $D_c = 1^\circ 15' 00''$
 $R = 4,583.66'$
 $L_{sl} = 275.00'$
 $\text{Thetal} = 1^\circ 43' 08''$
 $LT1 = 183.34'$
 $ST1 = 91.67'$
 $x1 = 274.98'$
 $y1 = 2.75'$
 $kl = 137.50'$
 $pl = 0.69'$
 $\Delta_c = 25^\circ 45' 49''$ (RT)
 $L_c = 2,061.08'$
 $T_{sl} = 1,257.04'$
 $E_s = 135.41'$
 $e_{max} = 0.044$

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR 823
	ESTIMATED QUANTITIES
	DRAINAGE PROFILES

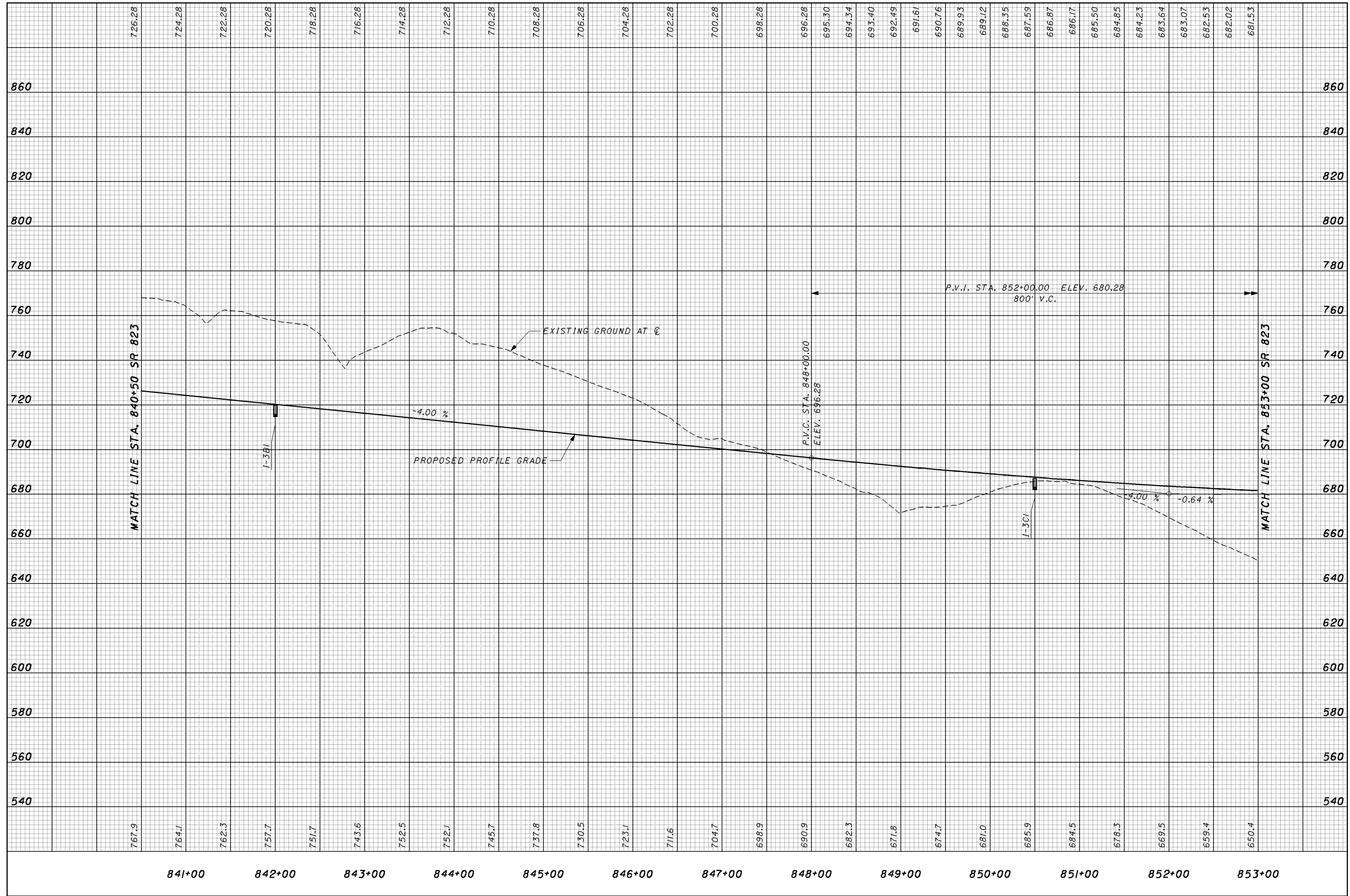


CALCULATED
 ADW
 CHECKED
 CTS

0 50 100
 HORIZONTAL SCALE IN FEET

PLAN - SR 823
STA. 840+50.00 TO STA. 853+00.00

SCI-823-10.13



CALCULATED
ADW
CHECKED
CTS

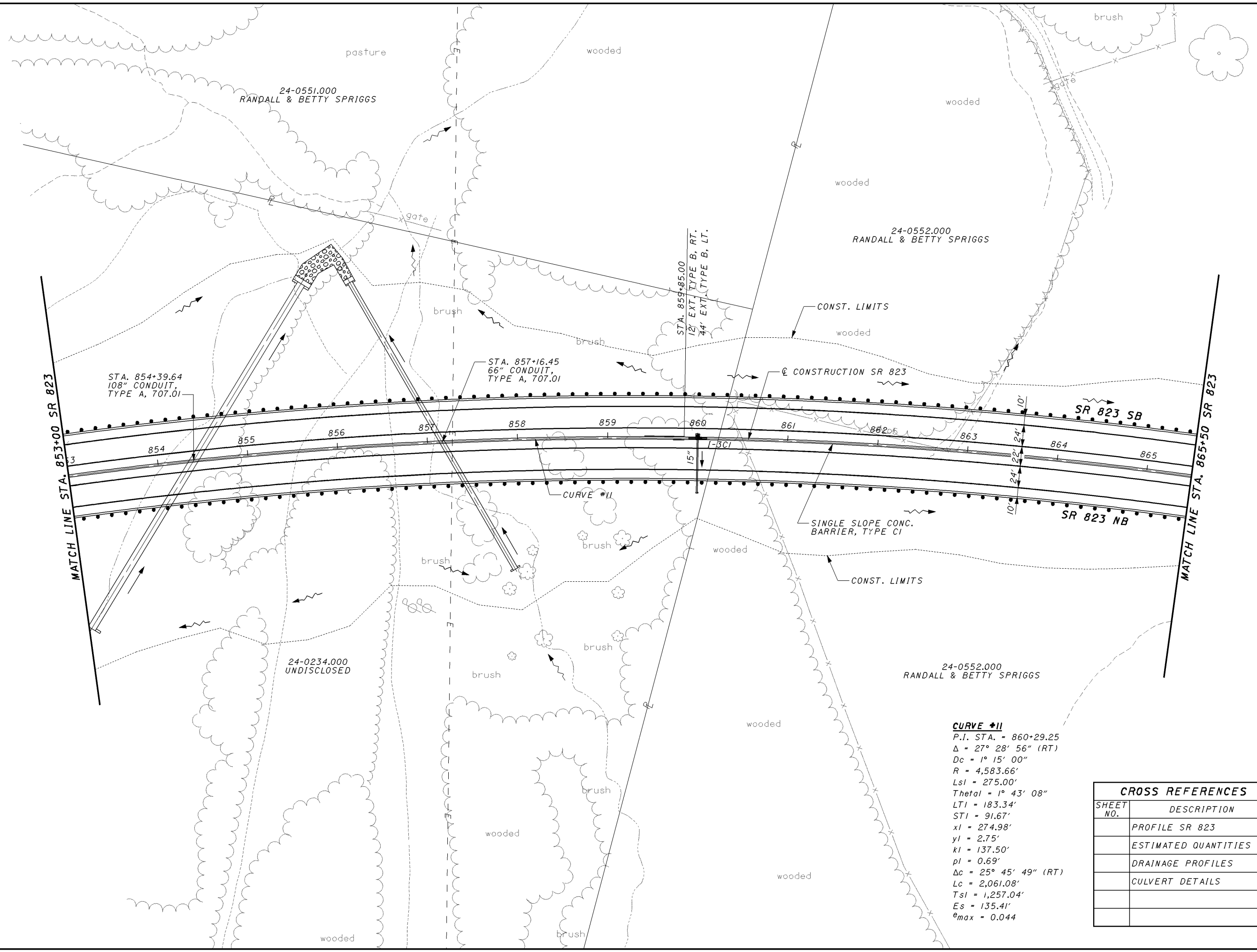
PROFILE - SR 823
STA. 840+50.00 TO STA. 853+00.00

SCI-823-10.13

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melben
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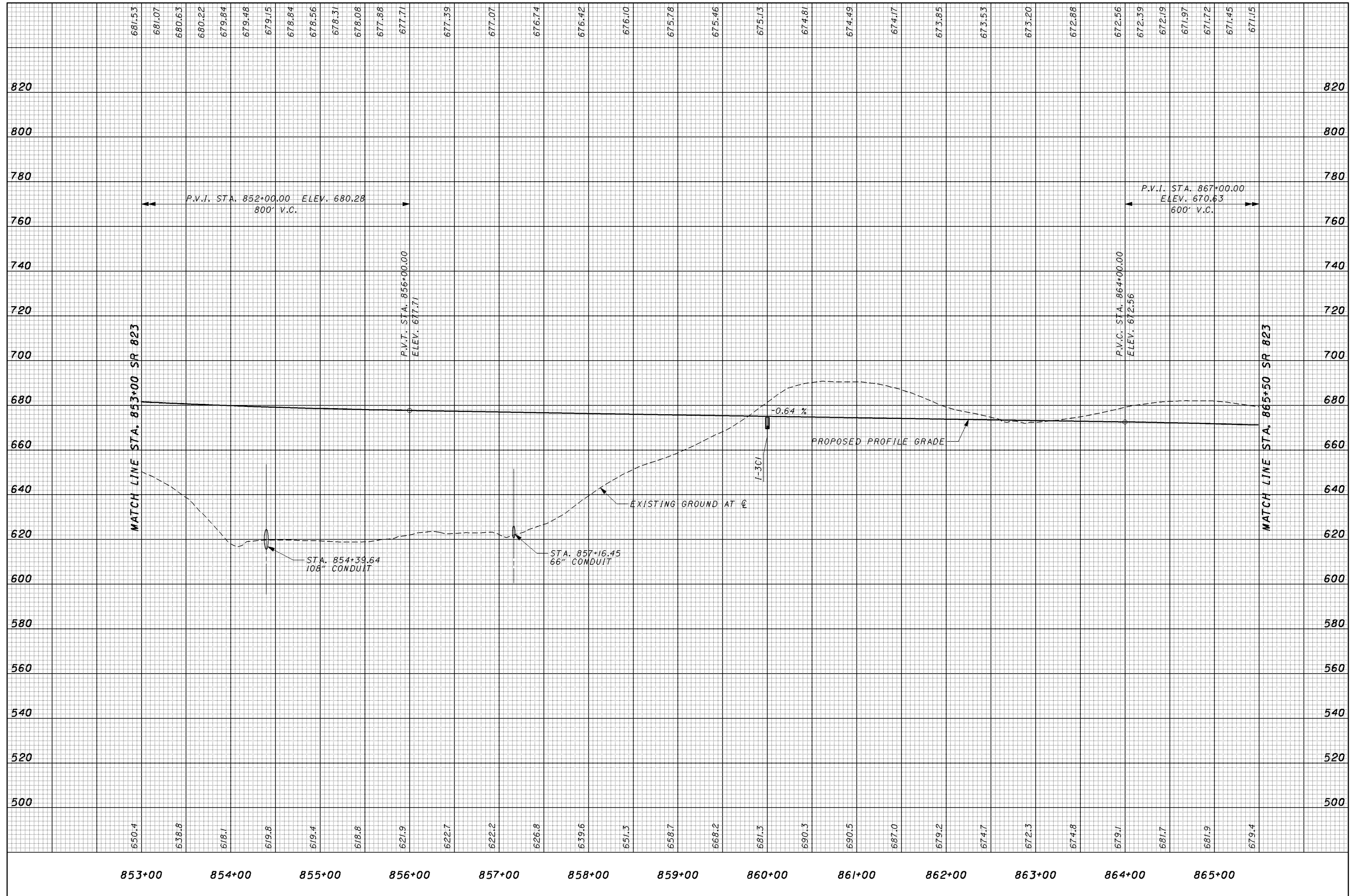
CURVE #II
 P.I. STA. = 860+29.25
 $\Delta = 27^\circ 28' 56''$ (RT)
 $Dc = 1^\circ 15' 00''$
 $R = 4,583.66'$
 $Lsl = 275.00'$
 $Thetal = 1^\circ 43' 08''$
 $LT1 = 183.34'$
 $ST1 = 91.67'$
 $x1 = 274.98'$
 $y1 = 2.75'$
 $kl = 137.50'$
 $pl = 0.69'$
 $\Delta c = 25^\circ 45' 49''$ (RT)
 $Lc = 2,061.08'$
 $Tsl = 1,257.04'$
 $Es = 135.41'$
 $e_{max} = 0.044$

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR 823
	ESTIMATED QUANTITIES
	DRAINAGE PROFILES
	CULVERT DETAILS

CALCULATED
ADW
CHECKED
CTS

HORIZONTAL SCALE IN FEET

PLAN - SR 823
STA. 853+00.00 TO STA. 865+50.00



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melben
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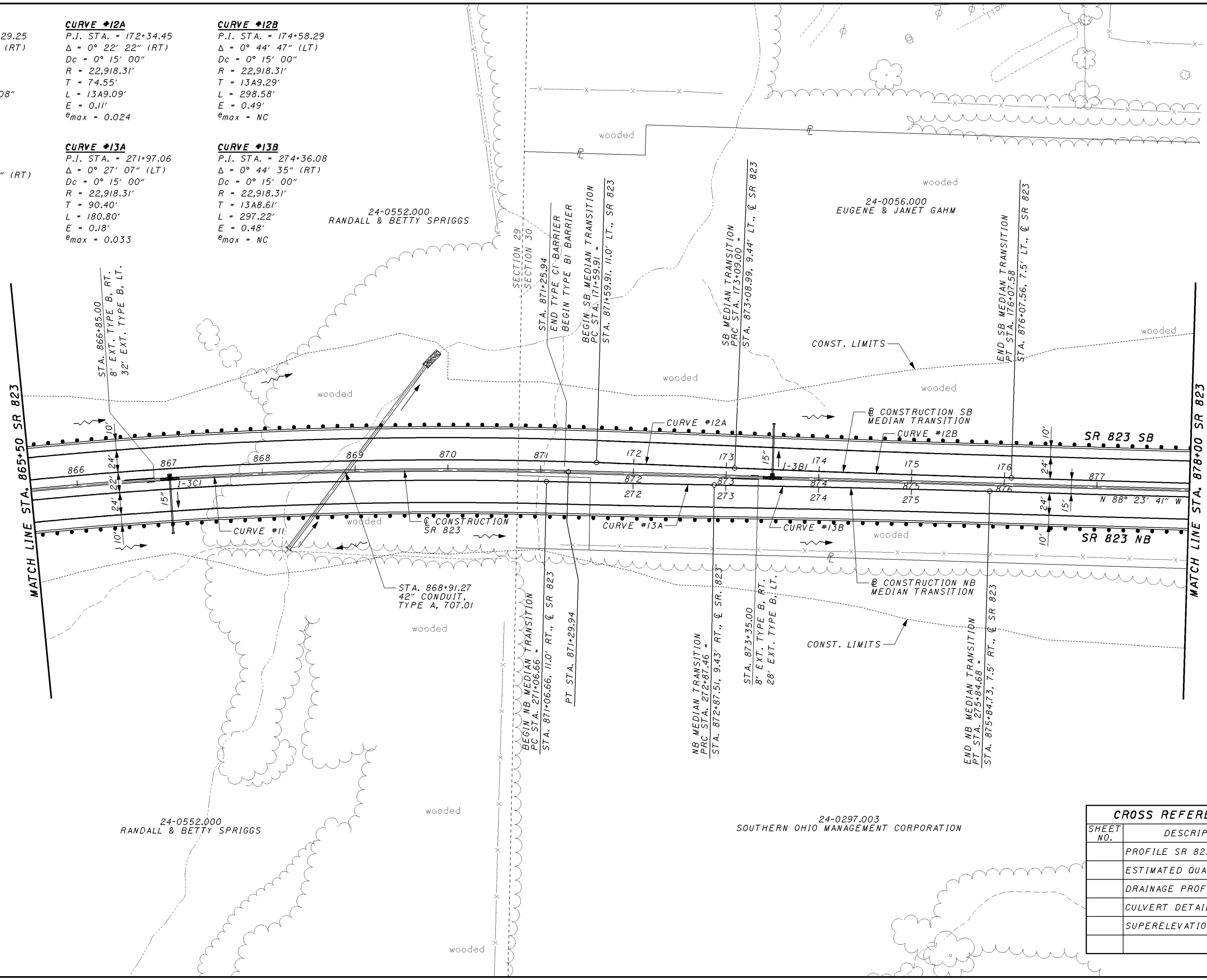
CURVE #11
P.I. STA. = 860+29.25
 $\Delta = 27^\circ 28' 56''$ (RT)
 $Dc = 1^\circ 15' 00''$
 $R = 4,583.66'$
 $Lsl = 275.00'$
 $Thetal = 1^\circ 43' 08''$
 $LTI = 183.34'$
 $STI = 91.67'$
 $xl = 274.98'$
 $yl = 2.75'$
 $kl = 137.50'$
 $pl = 0.69'$
 $\Delta c = 25^\circ 45' 49''$ (RT)
 $Lc = 2,061.08'$
 $Tsl = 1,257.04'$
 $Es = 135.41'$
 $e_{max} = 0.044$

CURVE #12A
P.I. STA. = 172+34.45
 $\Delta = 0^\circ 22' 22''$ (RT)
 $Dc = 0^\circ 15' 00''$
 $R = 22,918.31'$
 $T = 74.55'$
 $L = 13A9.09'$
 $E = 0.11'$
 $e_{max} = 0.024$

CURVE #12B
P.I. STA. = 174+58.29
 $\Delta = 0^\circ 44' 47''$ (LT)
 $Dc = 0^\circ 15' 00''$
 $R = 22,918.31'$
 $T = 13A9.29'$
 $L = 298.58'$
 $E = 0.49'$
 $e_{max} = NC$

CURVE #13A
P.I. STA. = 271+97.06
 $\Delta = 0^\circ 27' 07''$ (LT)
 $Dc = 0^\circ 15' 00''$
 $R = 22,918.31'$
 $T = 90.40'$
 $L = 180.80'$
 $E = 0.18'$
 $e_{max} = 0.033$

CURVE #13B
P.I. STA. = 274+36.08
 $\Delta = 0^\circ 44' 35''$ (RT)
 $Dc = 0^\circ 15' 00''$
 $R = 22,918.31'$
 $T = 13A8.61'$
 $L = 297.22'$
 $E = 0.48'$
 $e_{max} = NC$



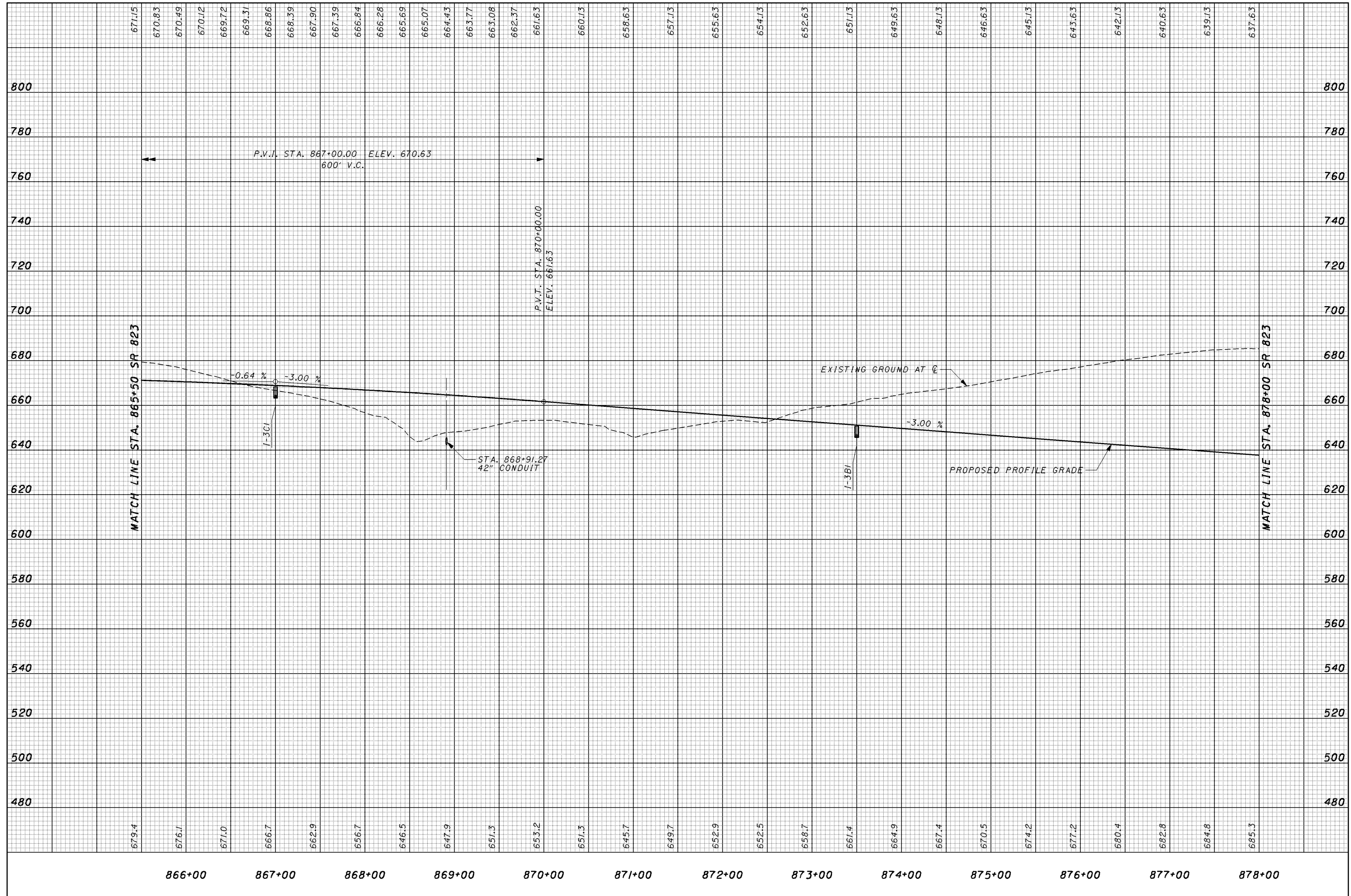
CALCULATED
ADW
CHECKED
CTS

0 50 100
HORIZONTAL
SCALE IN FEET

PLAN - SR 823
STA. 865+50.00 TO STA. 878+00.00

SCI-823-10.13

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR 823
	ESTIMATED QUANTITIES
	DRAINAGE PROFILES
	CULVERT DETAILS
	SUPERELEVATION TABLE

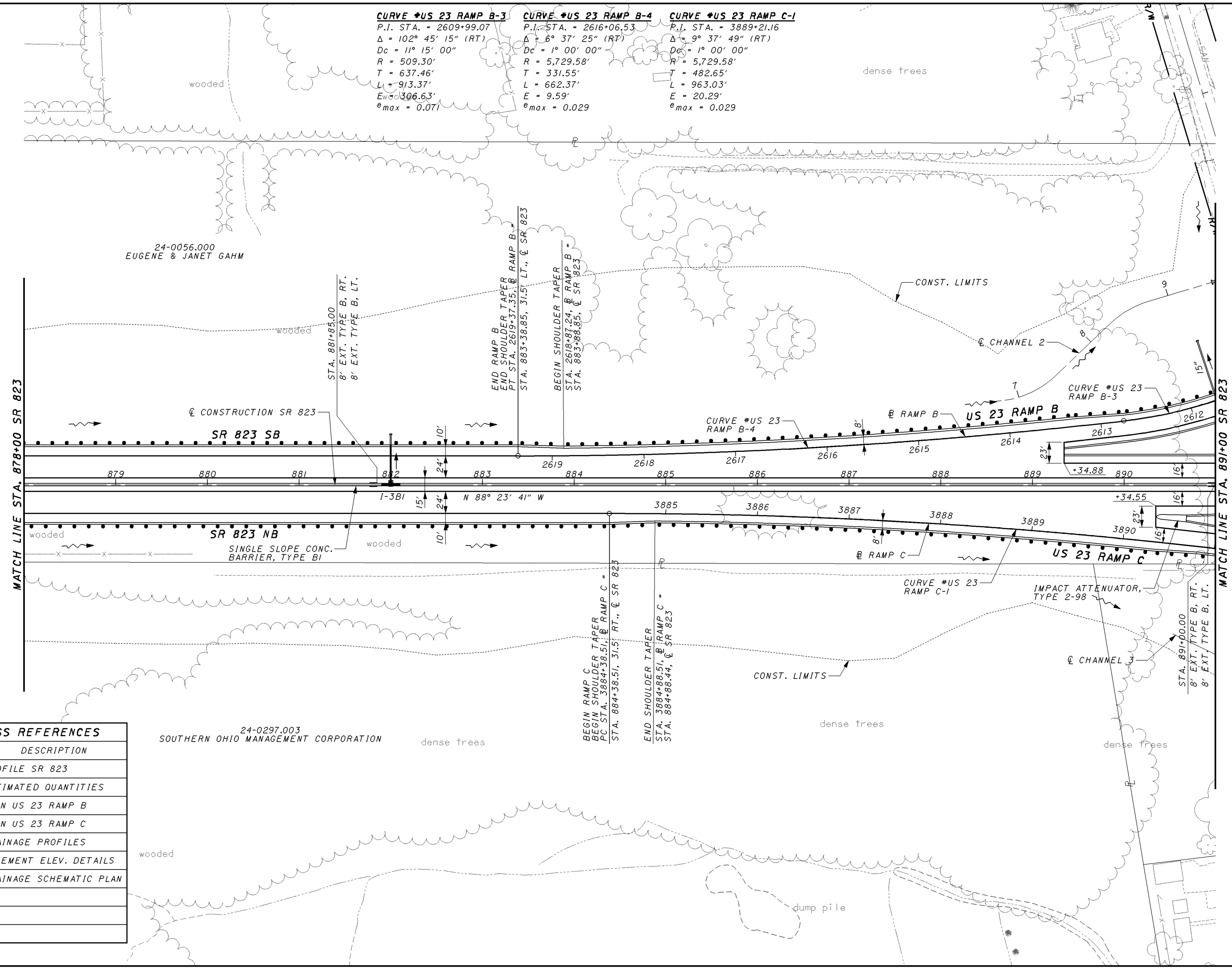


PROFILE - SR 823
STA. 865+50.00 TO STA. 878+00.00

CURVE #US 23 RAMP B-3
 P.I. STA. = 2609+99.07
 $\Delta = 102^\circ 45' 15''$ (RT)
 $Dc = 11^\circ 15' 00''$
 $R = 509.30'$
 $T = 637.46'$
 $L = 913.37'$
 $E_{max} = 306.63'$
 $e_{max} = 0.071$

CURVE #US 23 RAMP B-4
 P.I. STA. = 2616+06.53
 $\Delta = 6^\circ 37' 25''$ (RT)
 $Dc = 1^\circ 00' 00''$
 $R = 5,729.58'$
 $T = 331.55'$
 $L = 662.37'$
 $E = 9.59'$
 $e_{max} = 0.029$

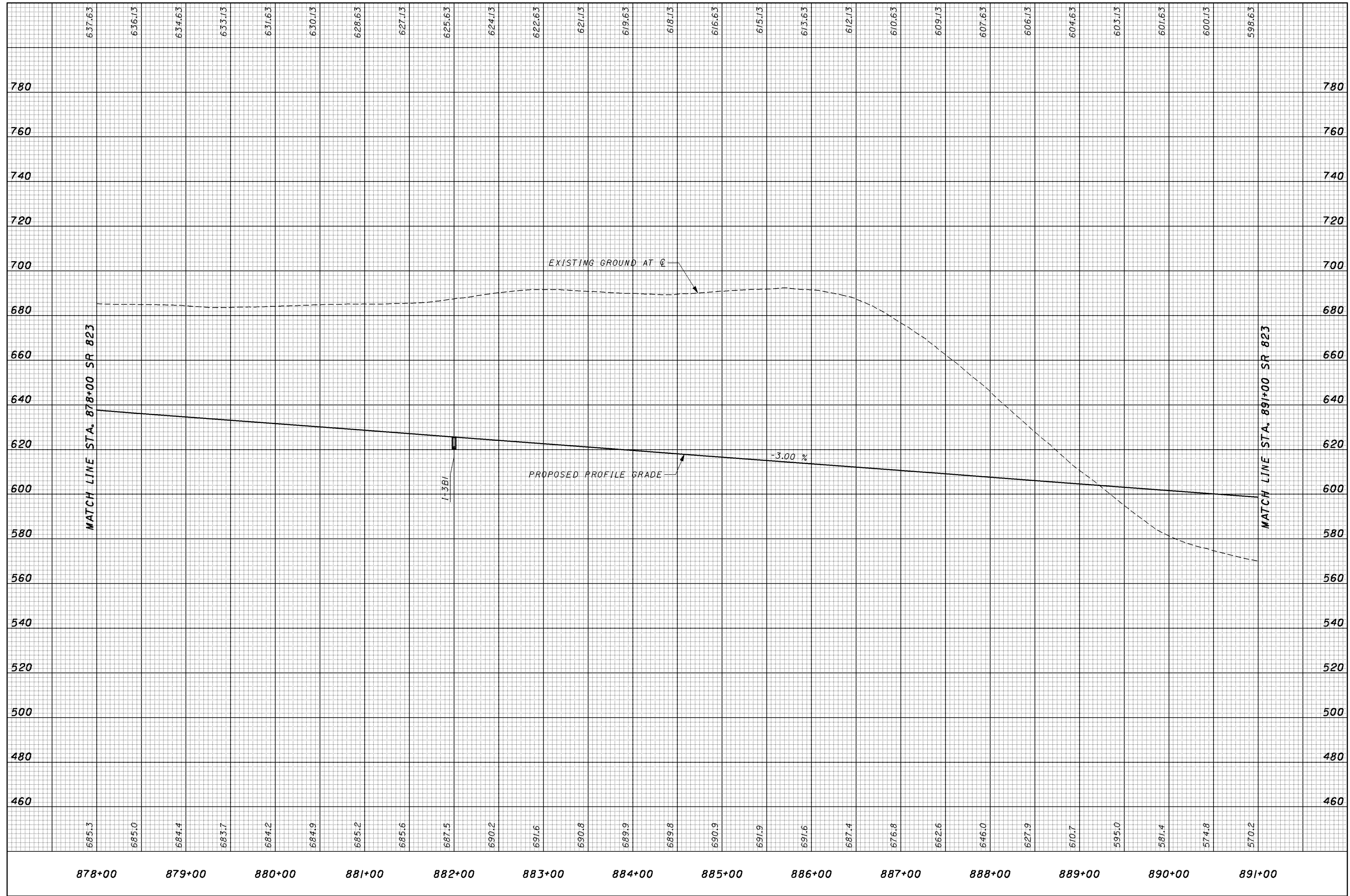
CURVE #US 23 RAMP C-1
 P.I. STA. = 3889+21.16
 $\Delta = 9^\circ 37' 49''$ (RT)
 $Dc = 1^\circ 00' 00''$
 $R = 5,729.58'$
 $T = 482.65'$
 $L = 963.03'$
 $E = 20.29'$
 $e_{max} = 0.029$



CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR 823
	ESTIMATED QUANTITIES
	PLAN US 23 RAMP B
	PLAN US 23 RAMP C
	DRAINAGE PROFILES
	PAVEMENT ELEV. DETAILS
	DRAINAGE SCHEMATIC PLAN

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CALCULATED
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CHECKED
CTS

PROFILE - SR 823
STA. 878+00.00 TO STA. 891+00.00

SCI-823-10.13



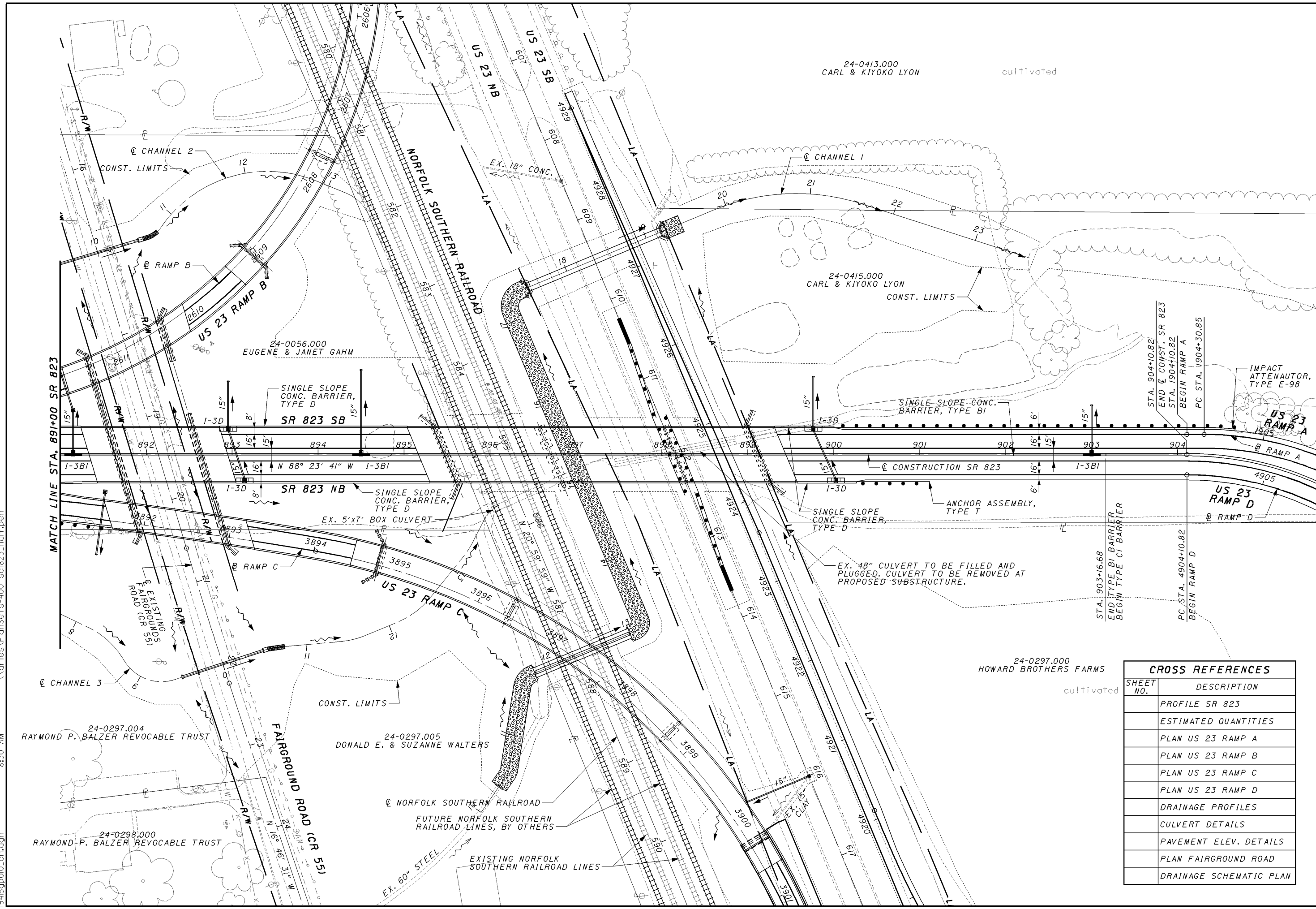
0 25 50 100
 HORIZONTAL
 SCALE IN FEET

CALCULATED
 ADW
 CHECKED
 CTS

PLAN - SR 823
 STA. 891+00.00 TO STA. 904+10.82

SCI-823-10.13

95



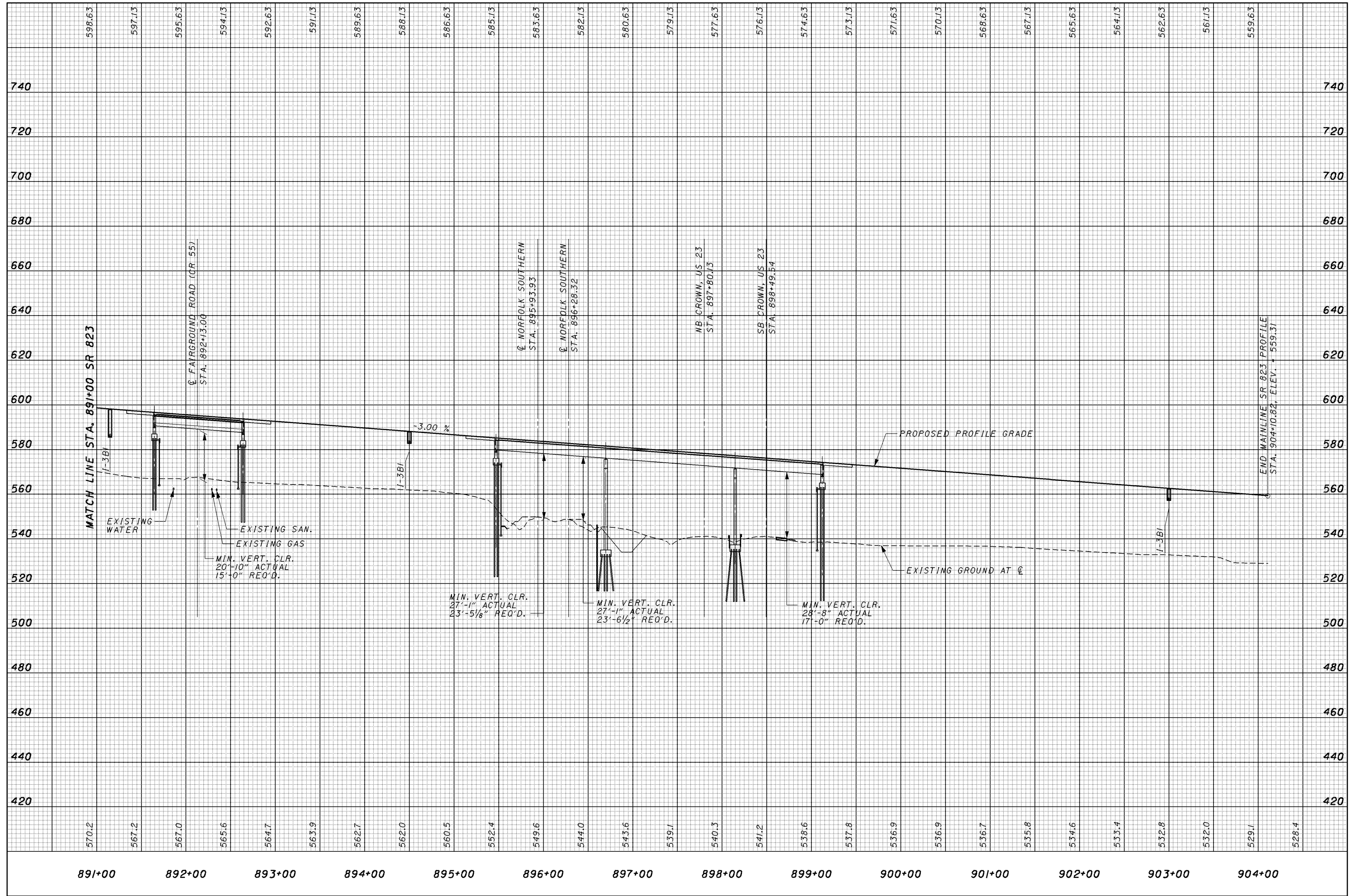
24-0297.000
 HOWARD BROTHERS FARMS
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CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR 823
	ESTIMATED QUANTITIES
	PLAN US 23 RAMP A
	PLAN US 23 RAMP B
	PLAN US 23 RAMP C
	PLAN US 23 RAMP D
	DRAINAGE PROFILES
	CULVERT DETAILS
	PAVEMENT ELEV. DETAILS
	PLAN FAIRGROUND ROAD
	DRAINAGE SCHEMATIC PLAN

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CALCULATED
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 CHECKED
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PROFILE - SR 823
STA. 891+00.00 TO STA. 904+10.82

SCI-823-10.13



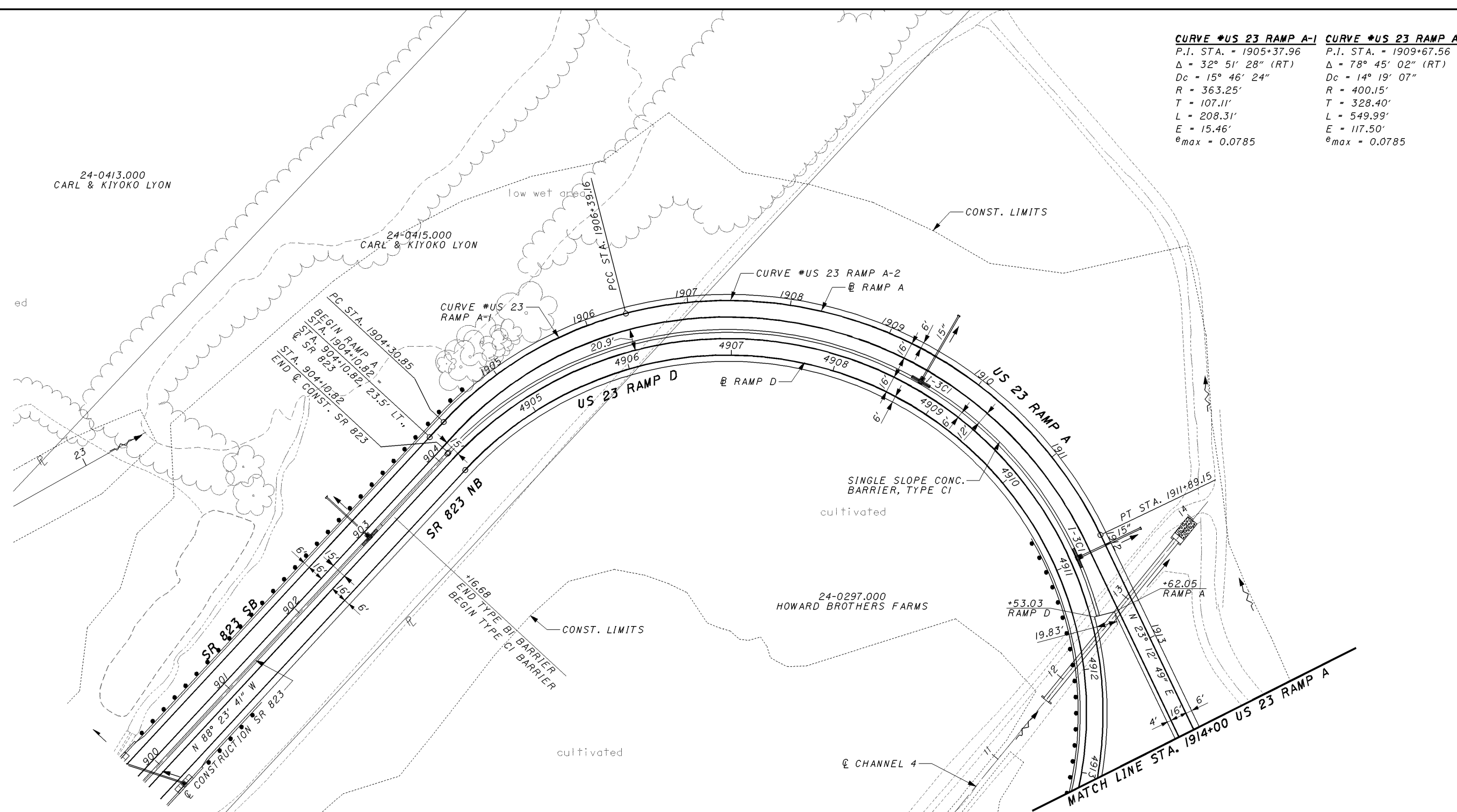
0 50 100
 25
 HORIZONTAL
 SCALE IN FEET

CALCULATED
 ADW
 CHECKED
 CTS

PLAN - US 23/SR 823 INTERCHANGE RAMP A
STA. 1904+10.82 TO STA. 1914+00.00

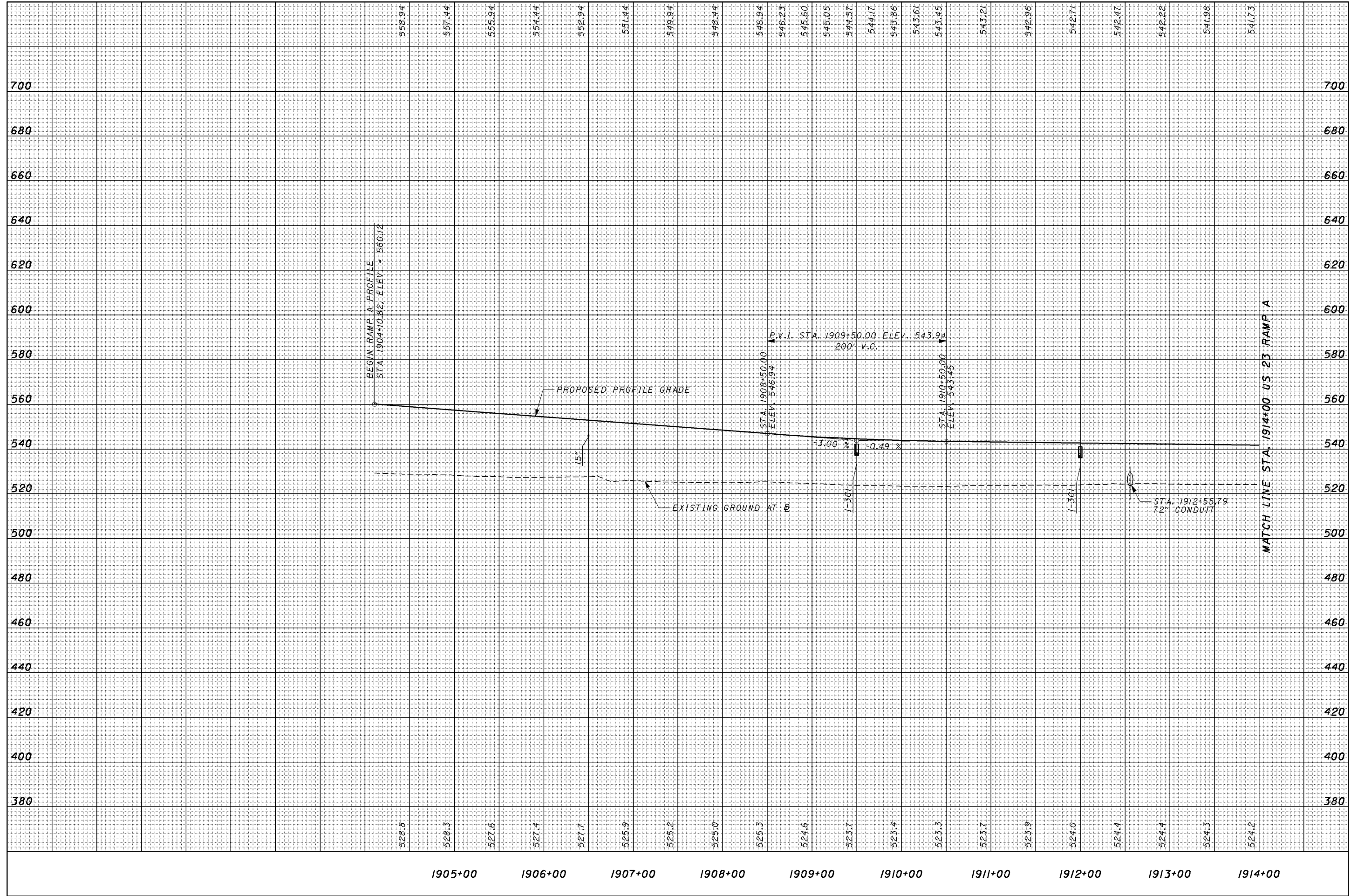
SCI-823-10.13

CURVE #US 23 RAMP A-1	CURVE #US 23 RAMP A-2
P.I. STA. = 1905+37.96	P.I. STA. = 1909+67.56
$\Delta = 32^\circ 51' 28''$ (RT)	$\Delta = 78^\circ 45' 02''$ (RT)
$D_c = 15^\circ 46' 24''$	$D_c = 14^\circ 19' 07''$
$R = 363.25'$	$R = 400.15'$
$T = 107.11'$	$T = 328.40'$
$L = 208.31'$	$L = 549.99'$
$E = 15.46'$	$E = 117.50'$
$e_{max} = 0.0785$	$e_{max} = 0.0785$



CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US 23 RAMP A
	ESTIMATED QUANTITIES
	PLAN SR 823
	PLAN US 23 RAMP D
	DRAINAGE PROFILES
	CULVERT DETAILS
	PAVEMENT ELEV. DETAILS
	DRAINAGE SCHEMATIC PLAN

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PROFILE - US 23/ SR 823 INTERCHANGE RAMP A
STA. 1904+10.82 TO STA. 1914+00.00

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CTS



CALCULATED
ADW
CHECKED
CTS

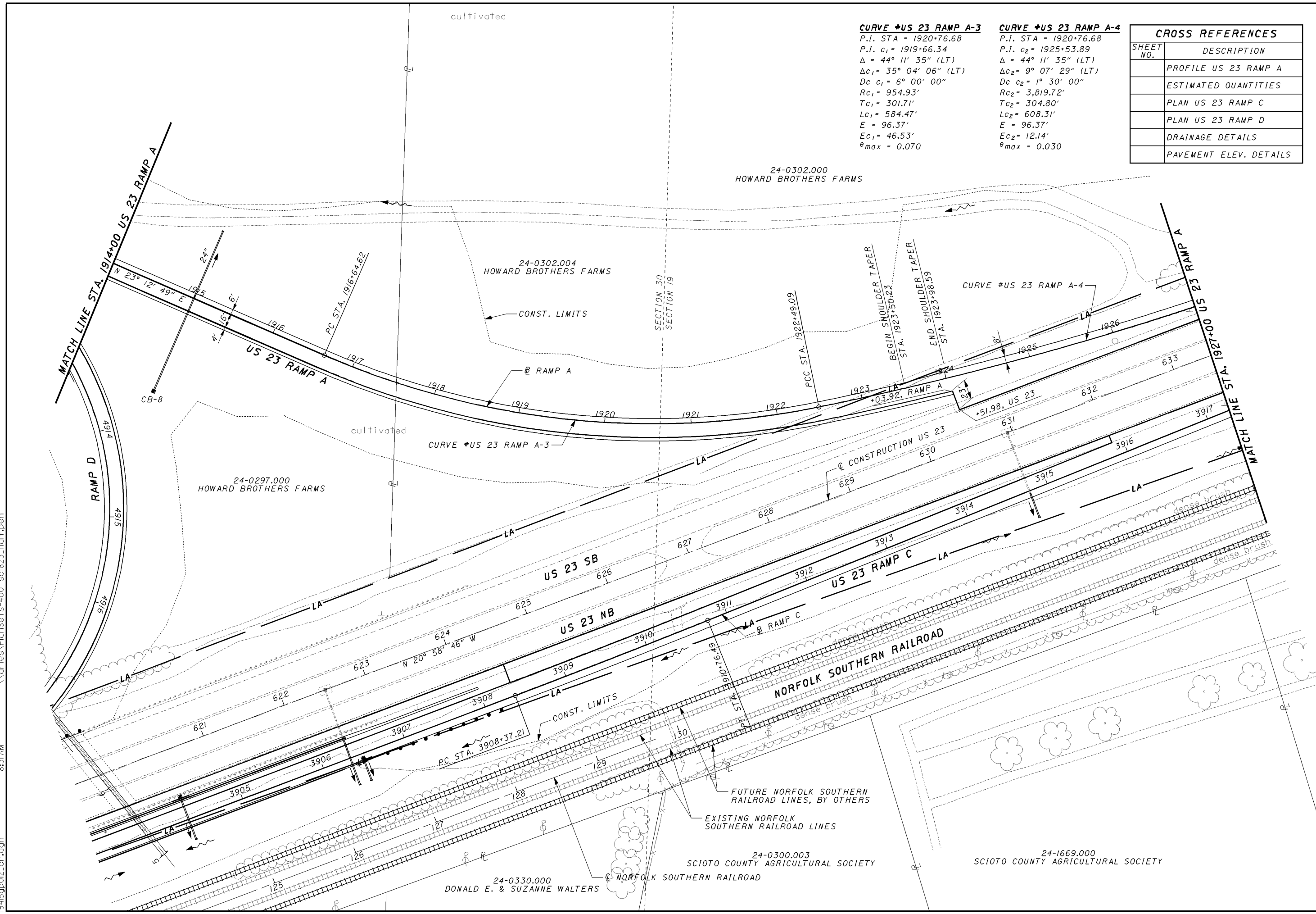
PLAN - US 23/SR 823 INTERCHANGE RAMP A
STA. 1914+00.00 TO STA. 1927+00.00

SCI-823-10.13

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US 23 RAMP A
	ESTIMATED QUANTITIES
	PLAN US 23 RAMP C
	PLAN US 23 RAMP D
	DRAINAGE DETAILS
	PAVEMENT ELEV. DETAILS

CURVE #US 23 RAMP A-3
 P.I. STA = 1920+76.68
 P.I. c_1 = 1919+66.34
 Δ = 44° 11' 35" (LT)
 Δc_1 = 35° 04' 06" (LT)
 $Dc c_1$ = 6° 00' 00"
 Rc_1 = 954.93'
 Tc_1 = 301.71'
 Lc_1 = 584.47'
 E = 96.37'
 Ec_1 = 46.53'
 e_{max} = 0.070

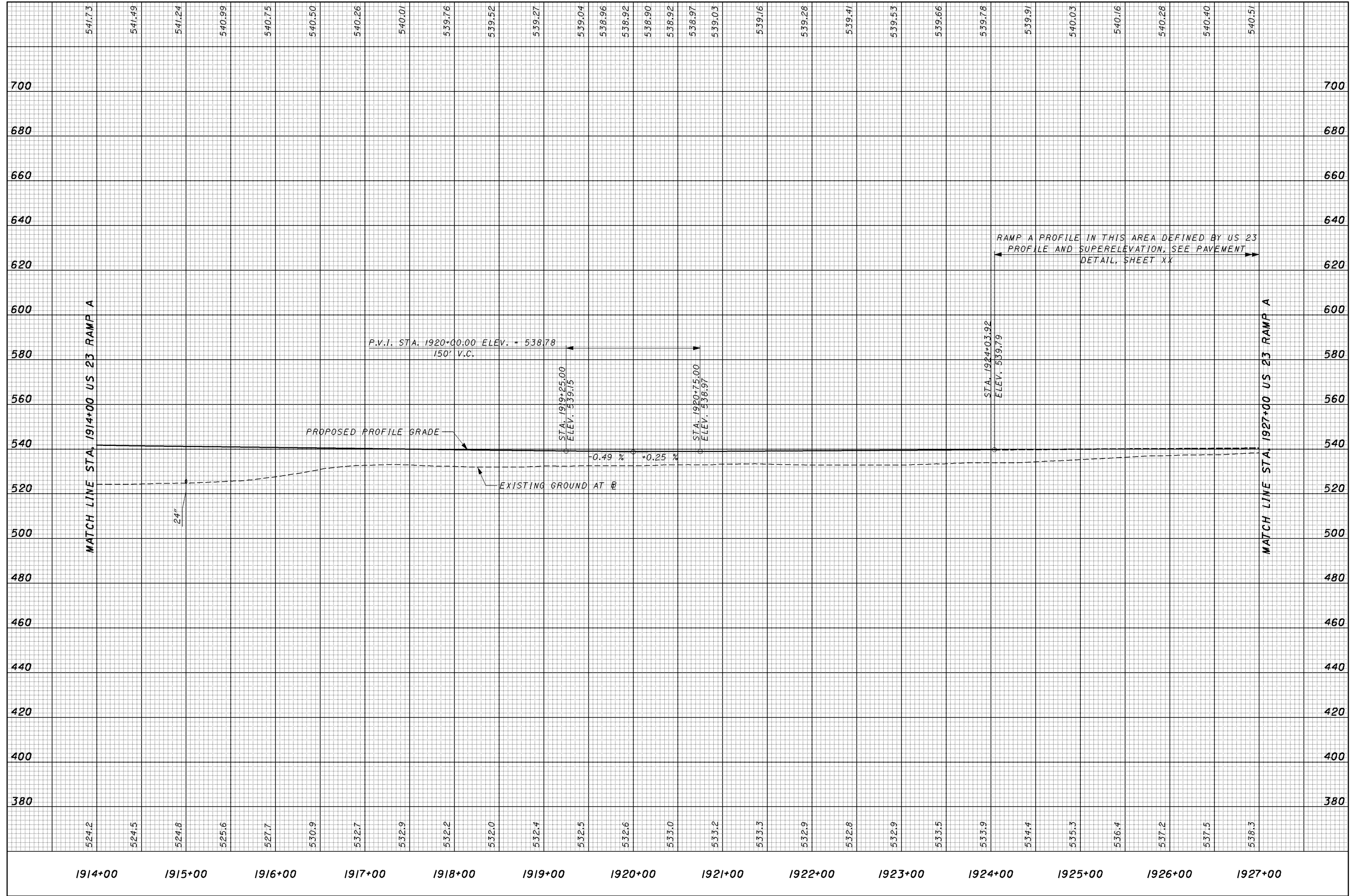
CURVE #US 23 RAMP A-4
 P.I. STA = 1920+76.68
 P.I. c_2 = 1925+53.89
 Δ = 44° 11' 35" (LT)
 Δc_2 = 9° 07' 29" (LT)
 $Dc c_2$ = 1° 30' 00"
 Rc_2 = 3,819.72'
 Tc_2 = 304.80'
 Lc_2 = 608.31'
 E = 96.37'
 Ec_2 = 12.14'
 e_{max} = 0.030



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PROFILE - US 23/ SR 823 INTERCHANGE RAMP A
STA. 1914+00.00 TO STA. 1927+00.00

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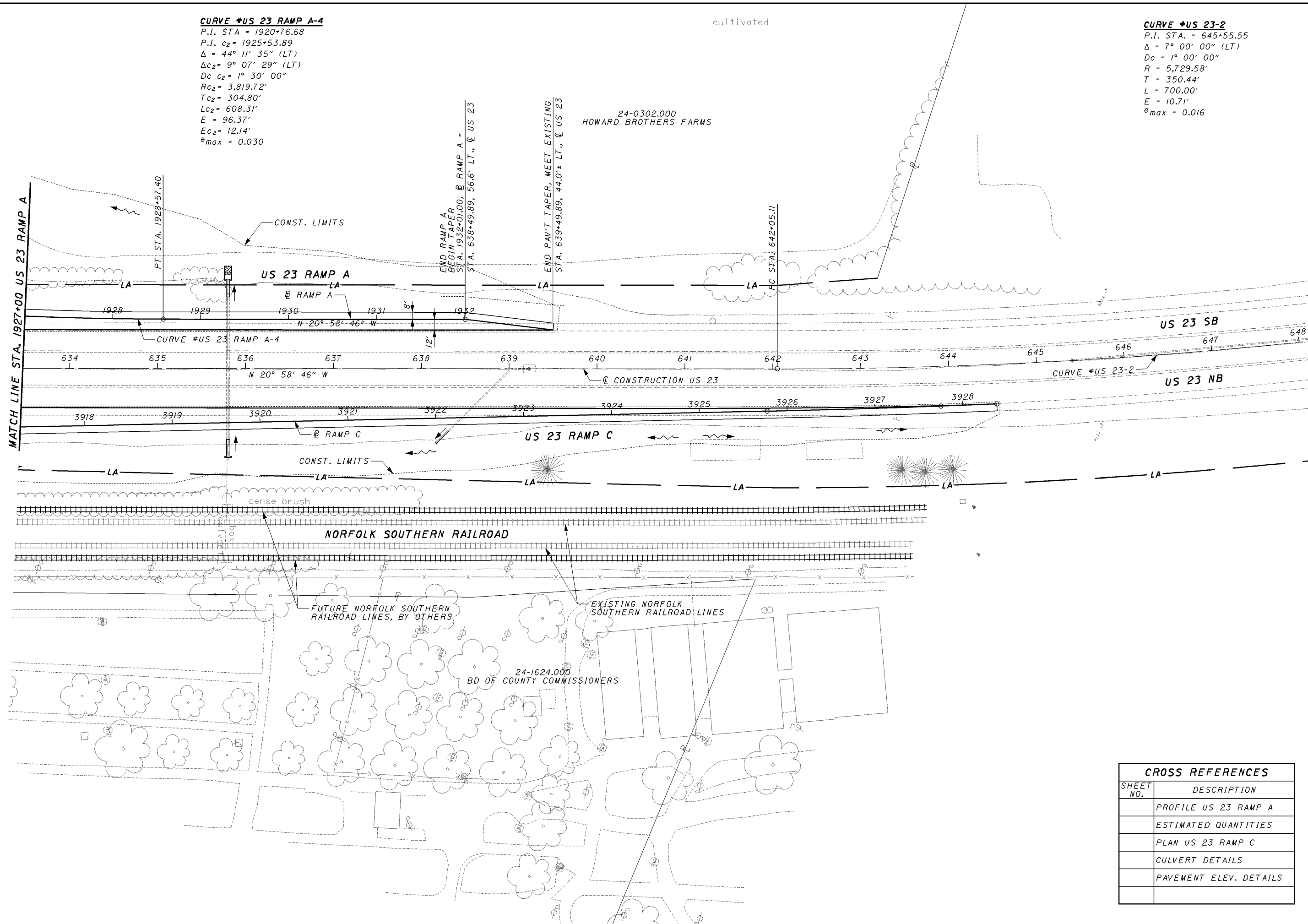


CURVE #US 23 RAMP A-4

P.I. STA = 1920+76.68
 P.I. c₂ = 1925+53.89
 Δ = 44° 11' 35" (LT)
 Δc₂ = 9° 07' 29" (LT)
 Dc c₂ = 1° 30' 00"
 Rc₂ = 3,819.72'
 Tc₂ = 304.80'
 Lc₂ = 608.31'
 E = 96.37'
 Ec₂ = 12.14'
 e_{max} = 0.030

CURVE #US 23-2

P.I. STA. = 645+55.55
 Δ = 7° 00' 00" (LT)
 Dc = 1° 00' 00"
 R = 5,729.58'
 T = 350.44'
 L = 700.00'
 E = 10.71'
 e_{max} = 0.016

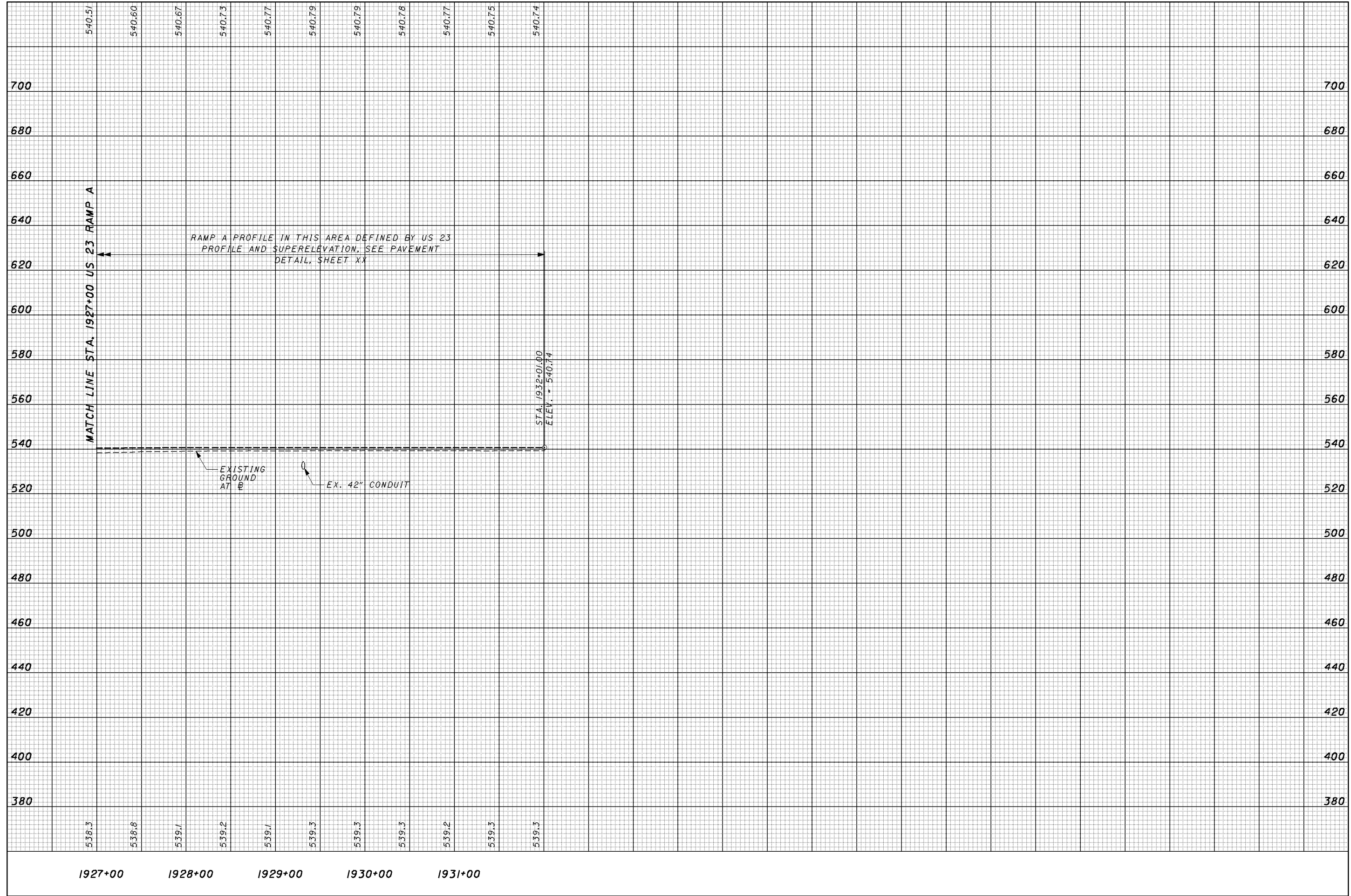


HORIZONTAL SCALE IN FEET
 CALCULATED: ADW
 CHECKED: CTS

PLAN - US 23/SR 823 INTERCHANGE RAMP A
STA. 1928+00.00 TO STA. 1932+01.00

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US 23 RAMP A
	ESTIMATED QUANTITIES
	PLAN US 23 RAMP C
	CULVERT DETAILS
	PAVEMENT ELEV. DETAILS

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CALCULATED
ADW
CHECKED
CTS

PROFILE - US 23/ SR 823 INTERCHANGE RAMP A
STA. 1927+00.00 TO STA. 1932+01.00

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CURVE #US 23 RAMP B-1
 P.I. STA. = 2591+59.06
 $\Delta = 3^\circ 26' 06''$ (RT)
 $D_c = 0^\circ 45' 00''$
 $R = 7,639.44'$
 $T = 229.06'$
 $L = 457.99'$
 $E = 3.34'$
 $e_{max} = NC$

CURVE #US 23 RAMP B-2
 P.I. STA. = 2596+14.37
 $\Delta = 3^\circ 23' 41''$ (LT)
 $D_c = 0^\circ 45' 00''$
 $R = 7,639.44'$
 $T = 226.38'$
 $L = 452.63'$
 $E = 3.35'$
 $e_{max} = NC$

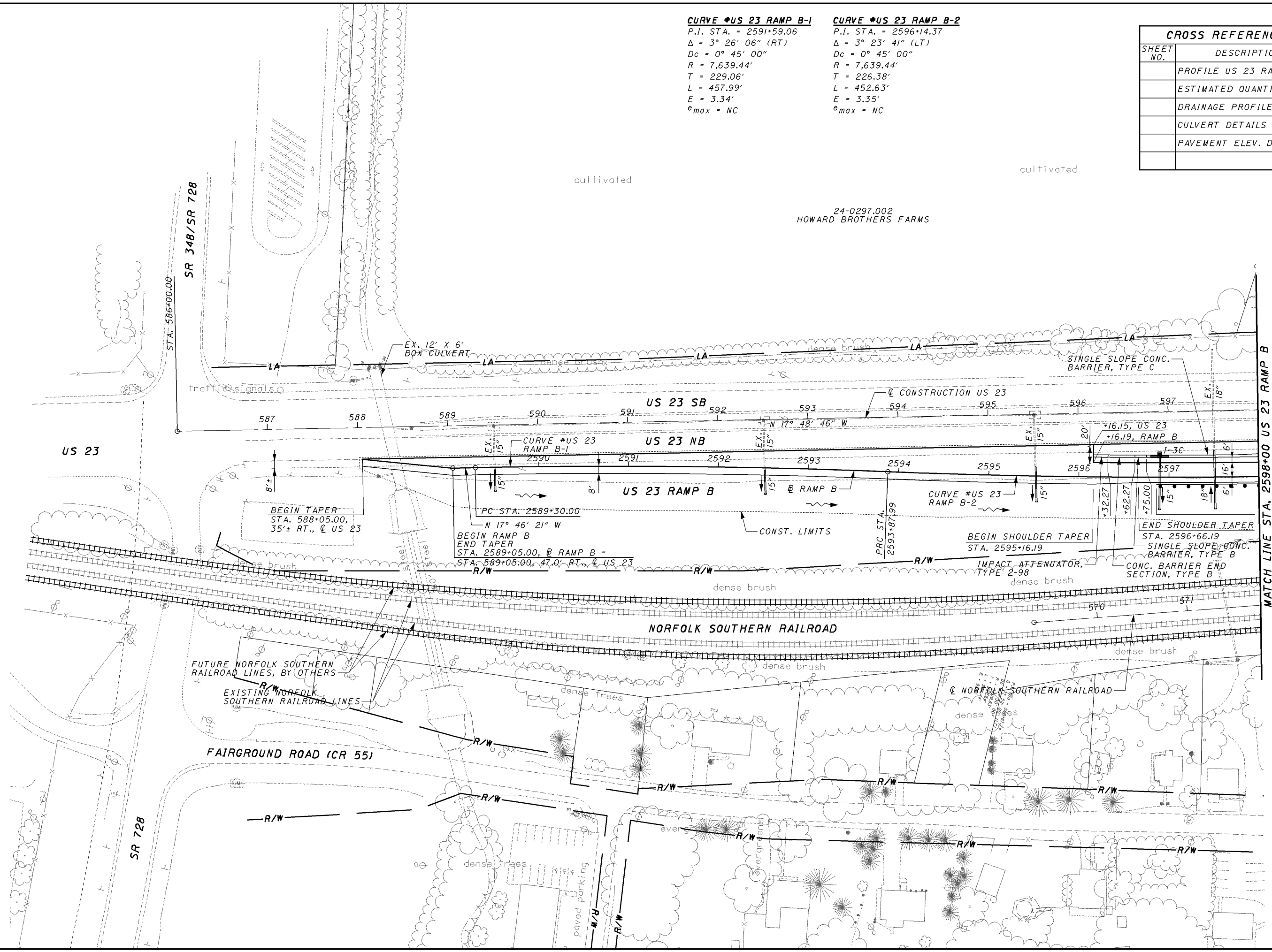
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US 23 RAMP B
	ESTIMATED QUANTITIES
	DRAINAGE PROFILES
	CULVERT DETAILS
	PAVEMENT ELEV. DETAILS



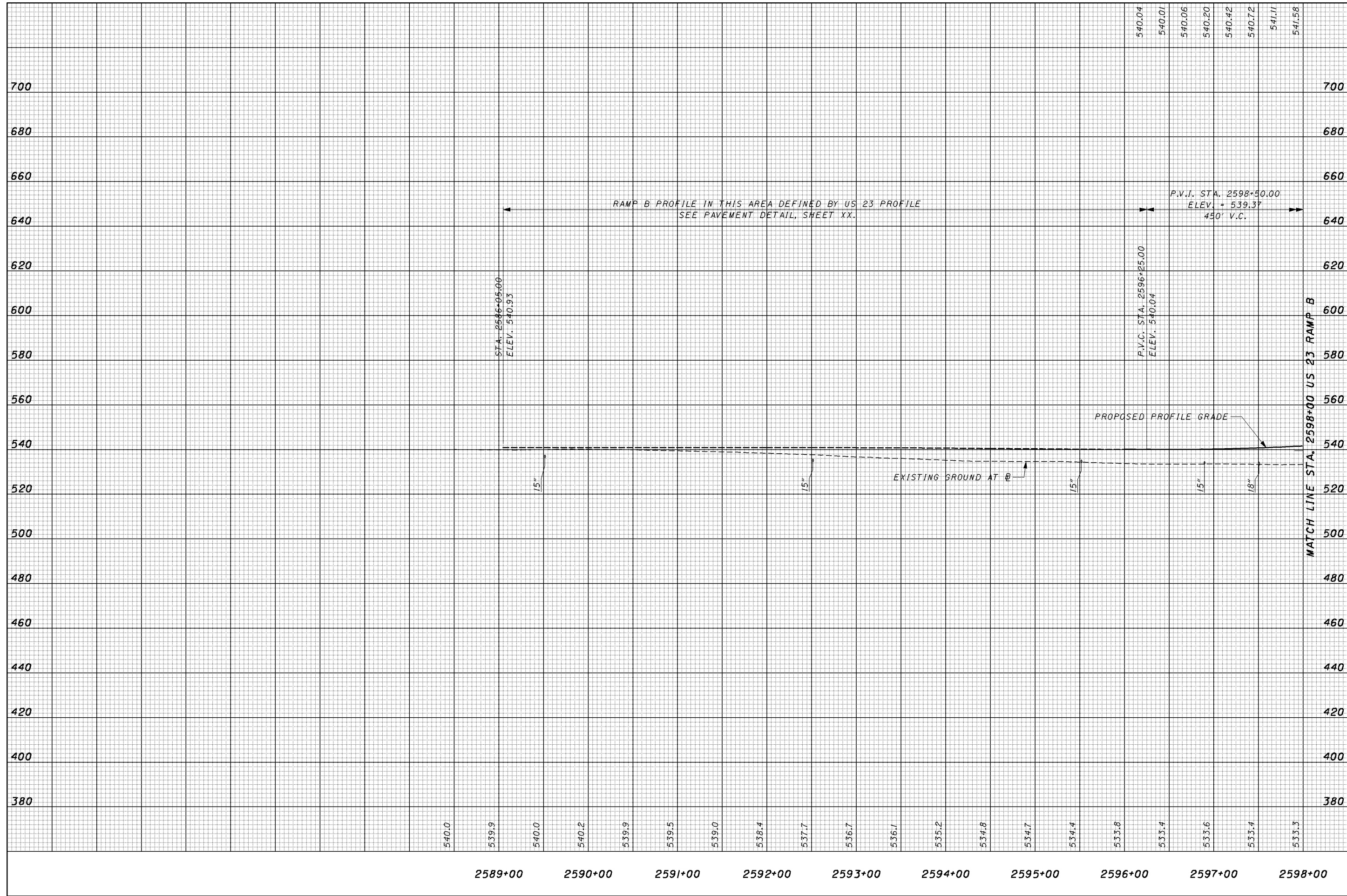
PLAN - US 23/SR 823 INTERCHANGE RAMP B
 STA. 2588+50.00 TO STA. 2598+00.00

SCI-823-10.13

103



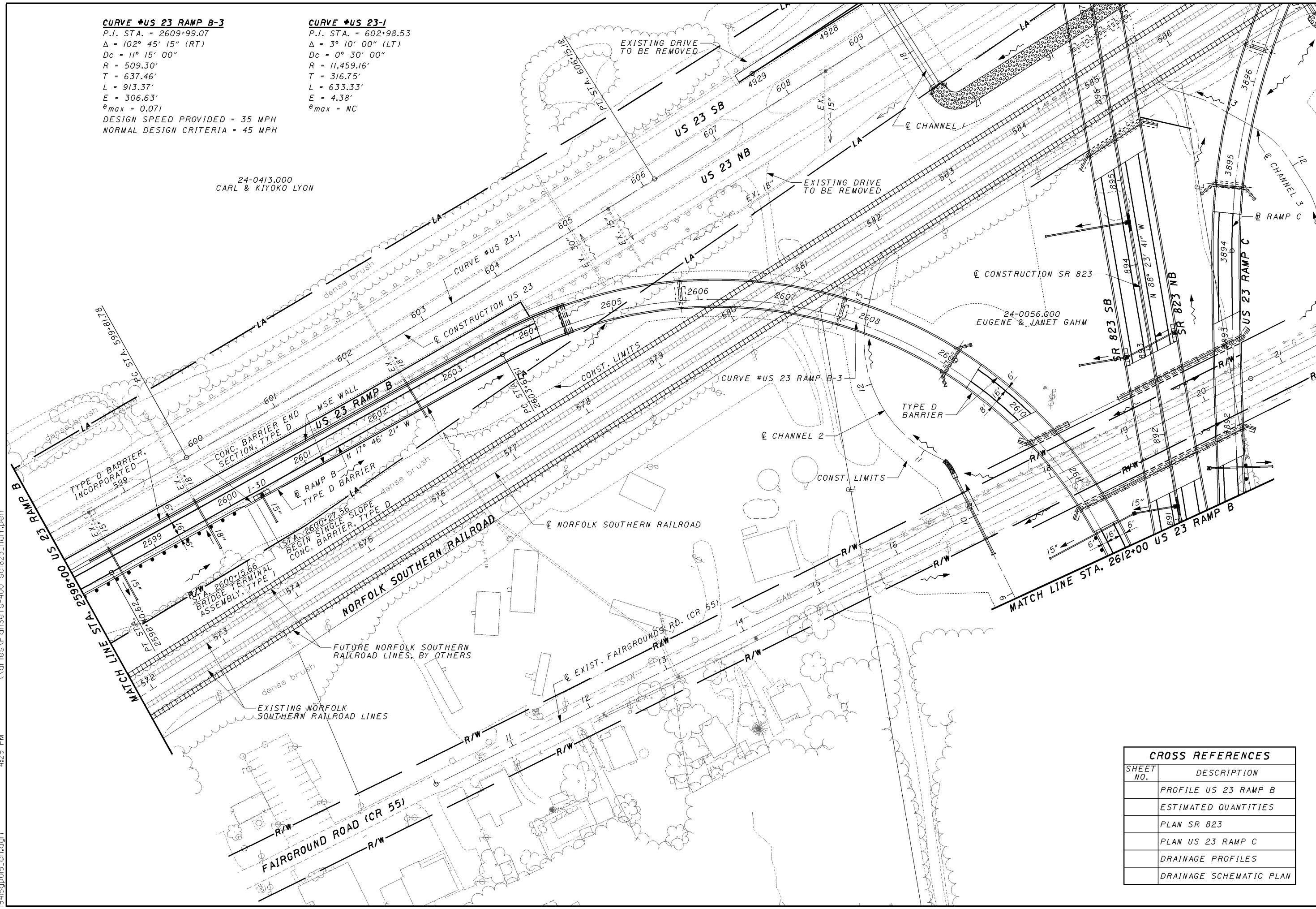
MATCH LINE STA. 2598+00 US 23 RAMP B
 STA. 2596+64.41
 ANCHOR ASSEMBLY,
 TYPE E-98



CURVE #US 23 RAMP B-3
 P.I. STA. = 2609+99.07
 $\Delta = 102^\circ 45' 15''$ (RT)
 $D_c = 11^\circ 15' 00''$
 $R = 509.30'$
 $T = 637.46'$
 $L = 913.37'$
 $E = 306.63'$
 $e_{max} = 0.071$
 DESIGN SPEED PROVIDED = 35 MPH
 NORMAL DESIGN CRITERIA = 45 MPH

CURVE #US 23-1
 P.I. STA. = 602+98.53
 $\Delta = 3^\circ 10' 00''$ (LT)
 $D_c = 0^\circ 30' 00''$
 $R = 11,459.16'$
 $T = 316.75'$
 $L = 633.33'$
 $E = 4.38'$
 $e_{max} = NC$

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CALCULATED: []
 ADW: []
 CHECKED: []
 CTS: []

0 25 50 100
 HORIZONTAL SCALE IN FEET

PLAN - US 23/ SR 823 INTERCHANGE RAMP B
STA. 2598+00.00 TO STA. 2612+00.00

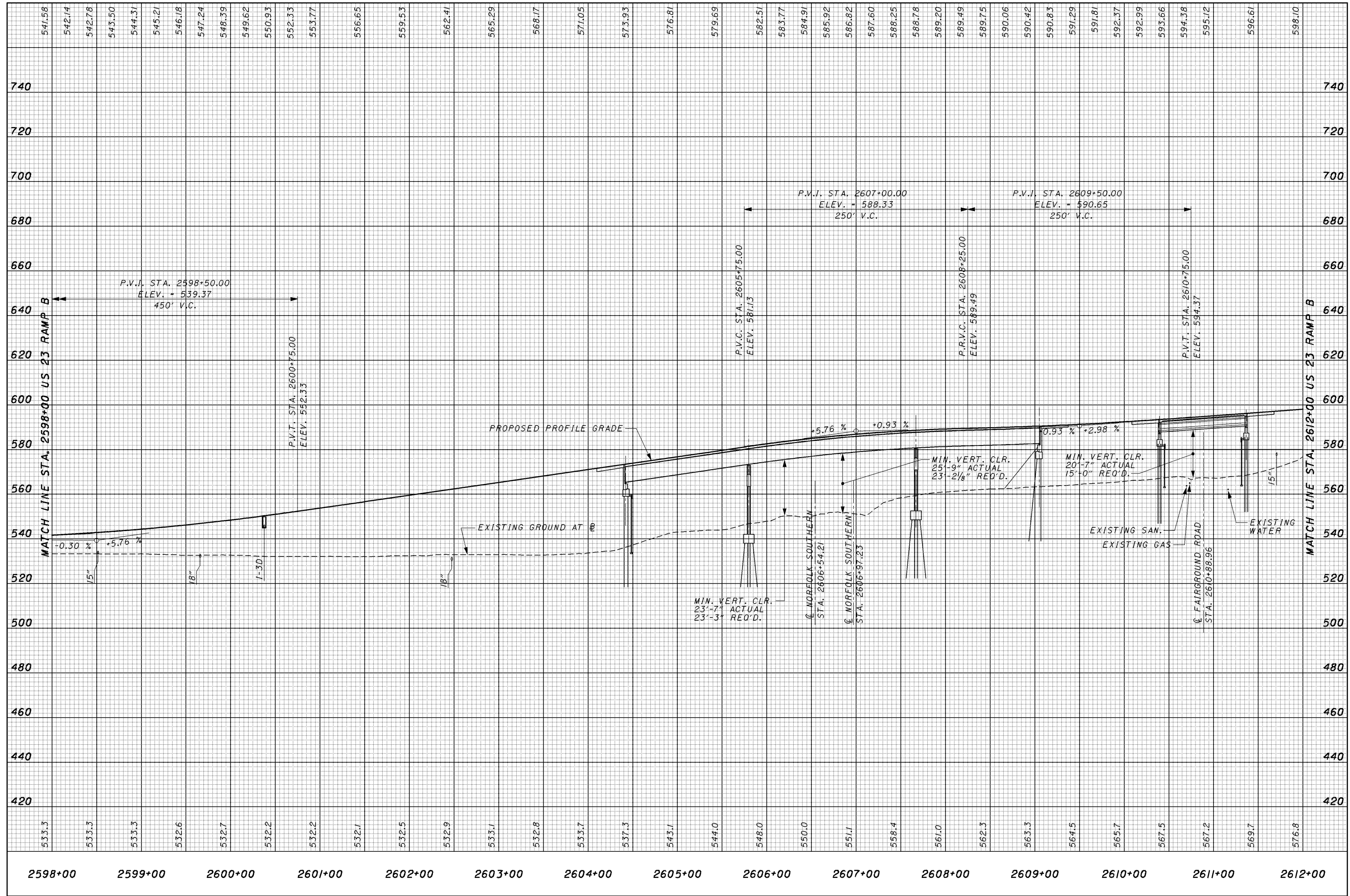
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US 23 RAMP B
	ESTIMATED QUANTITIES
	PLAN SR 823
	PLAN US 23 RAMP C
	DRAINAGE PROFILES
	DRAINAGE SCHEMATIC PLAN

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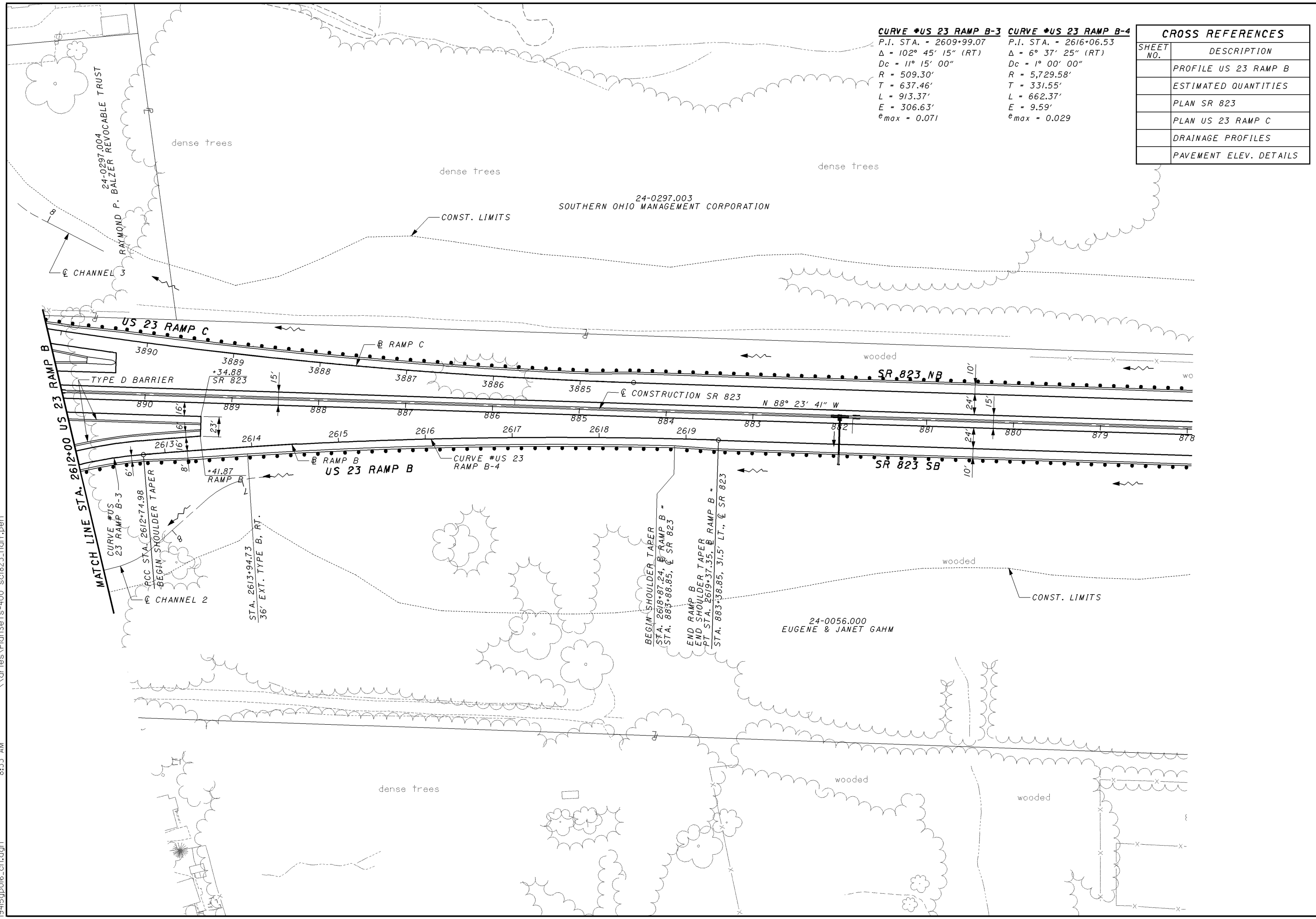
CURVE #US 23 RAMP B-3	CURVE #US 23 RAMP B-4
P.I. STA. - 2609+99.07	P.I. STA. - 2616+06.53
$\Delta = 102^\circ 45' 15''$ (RT)	$\Delta = 6^\circ 37' 25''$ (RT)
$Dc = 11^\circ 15' 00''$	$Dc = 1^\circ 00' 00''$
$R = 509.30'$	$R = 5,729.58'$
$T = 637.46'$	$T = 331.55'$
$L = 913.37'$	$L = 662.37'$
$E = 306.63'$	$E = 9.59'$
$e_{max} = 0.071$	$e_{max} = 0.029$

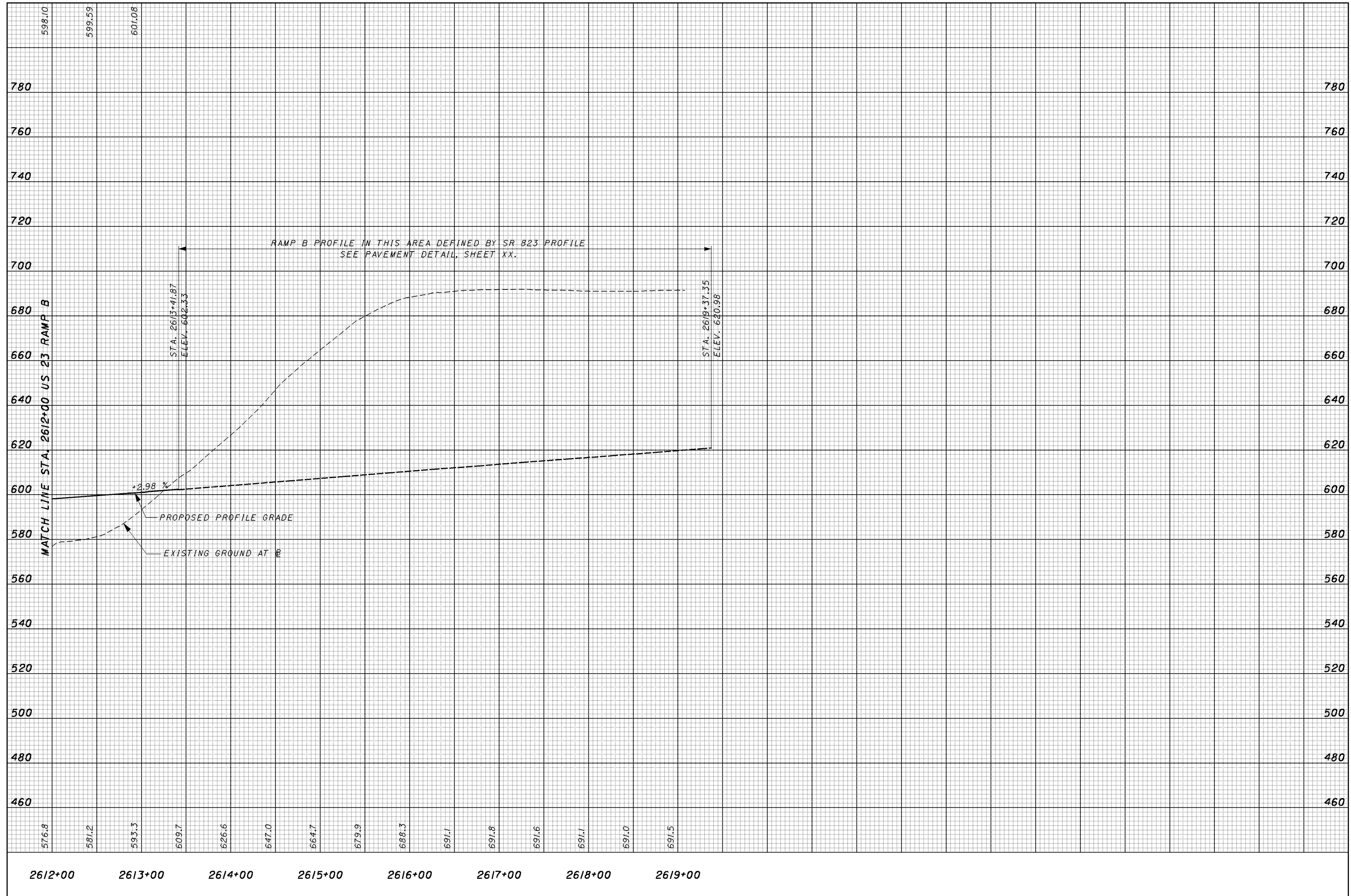
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US 23 RAMP B
	ESTIMATED QUANTITIES
	PLAN SR 823
	PLAN US 23 RAMP C
	DRAINAGE PROFILES
	PAVEMENT ELEV. DETAILS

CALCULATED
ADW
CHECKED
CTS

PLAN - US 23/ SR 823 INTERCHANGE RAMP B
STA. 2612+00.00 TO STA. 2619+37.35

SCI-823-10.13





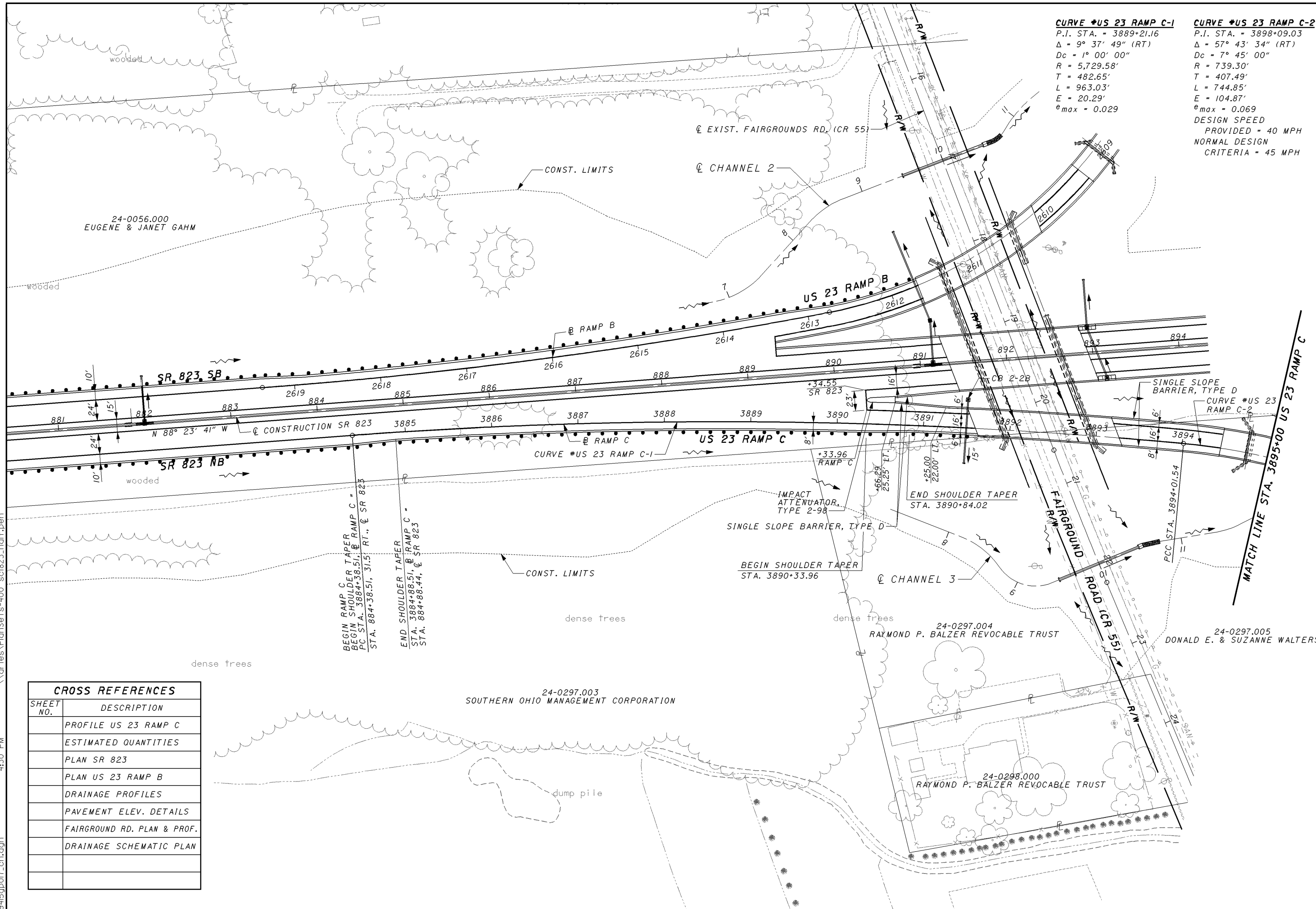


CALCULATED
ADW
CHECKED
CTS

**PLAN - US 23/ SR 823 INTERCHANGE RAMP C
STA. 3884+38.51 TO STA. 3895+00.00**

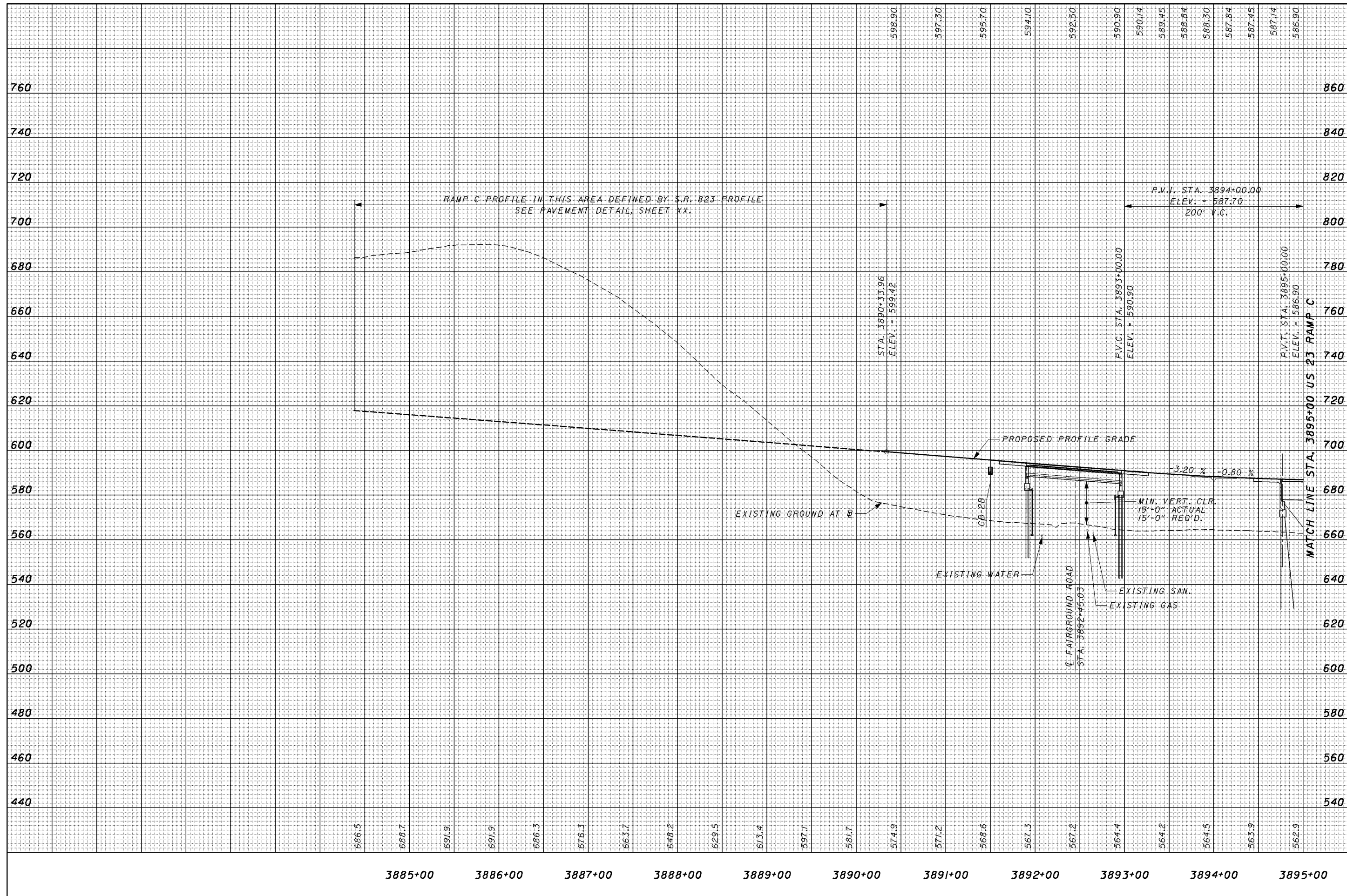
SCI-823-10.13

CURVE #US 23 RAMP C-1	CURVE #US 23 RAMP C-2
P.I. STA. = 3889+21.16	P.I. STA. = 3898+09.03
$\Delta = 9^\circ 37' 49''$ (RT)	$\Delta = 57^\circ 43' 34''$ (RT)
$D_c = 1^\circ 00' 00''$	$D_c = 7^\circ 45' 00''$
$R = 5,729.58'$	$R = 739.30'$
$T = 482.65'$	$T = 407.49'$
$L = 963.03'$	$L = 744.85'$
$E = 20.29'$	$E = 104.87'$
$e_{max} = 0.029$	$e_{max} = 0.069$
	DESIGN SPEED PROVIDED = 40 MPH NORMAL DESIGN CRITERIA = 45 MPH



CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US 23 RAMP C
	ESTIMATED QUANTITIES
	PLAN SR 823
	PLAN US 23 RAMP B
	DRAINAGE PROFILES
	PAVEMENT ELEV. DETAILS
	FAIRGROUND RD. PLAN & PROF.
	DRAINAGE SCHEMATIC PLAN

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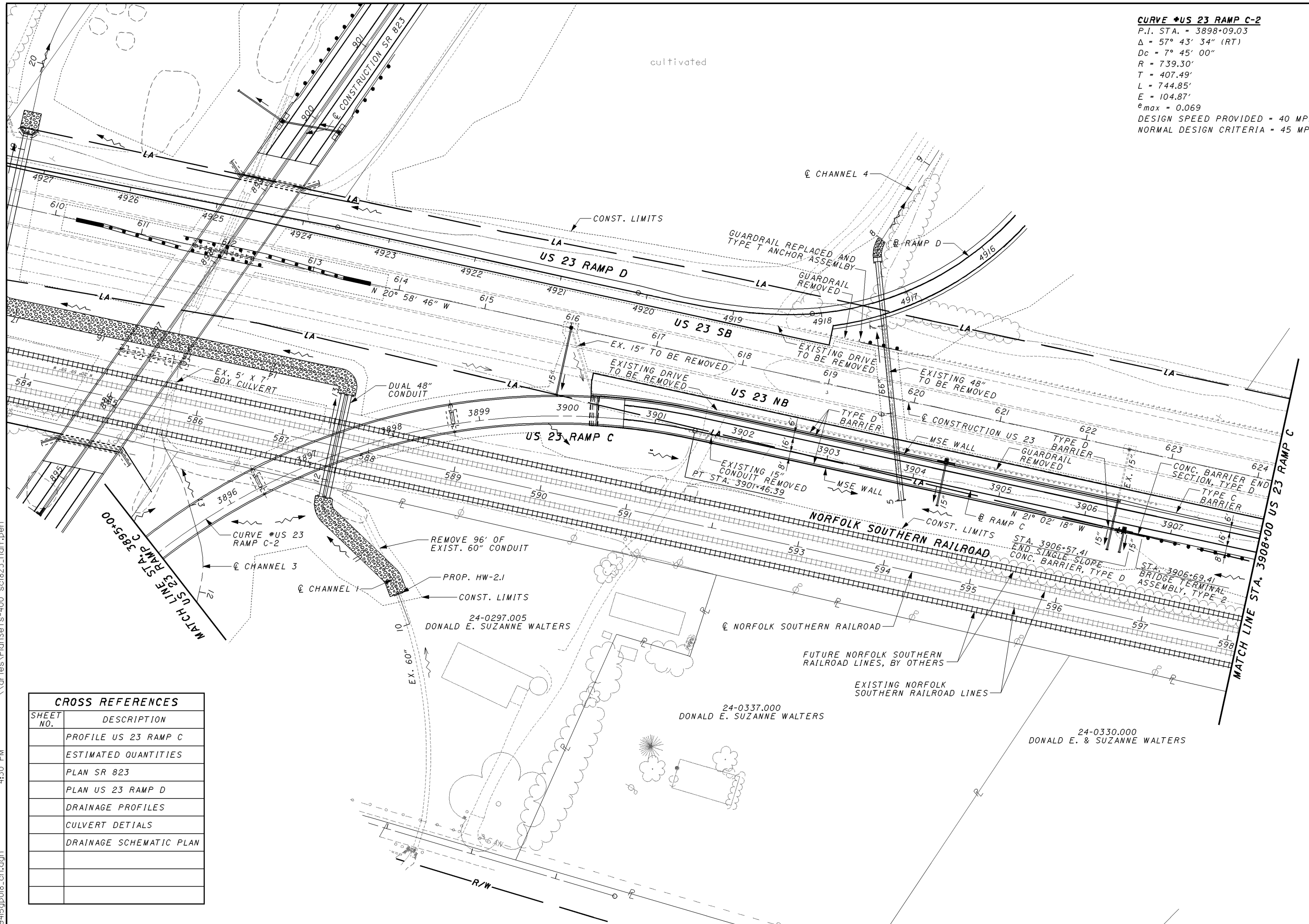


CURVE #US 23 RAMP C-2
 P.I. STA. = 3898+09.03
 $\Delta = 57^\circ 43' 34''$ (RT)
 $D_c = 7^\circ 45' 00''$
 $R = 739.30'$
 $T = 407.49'$
 $L = 744.85'$
 $E = 104.87'$
 $e_{max} = 0.069$
 DESIGN SPEED PROVIDED = 40 MPH
 NORMAL DESIGN CRITERIA = 45 MPH



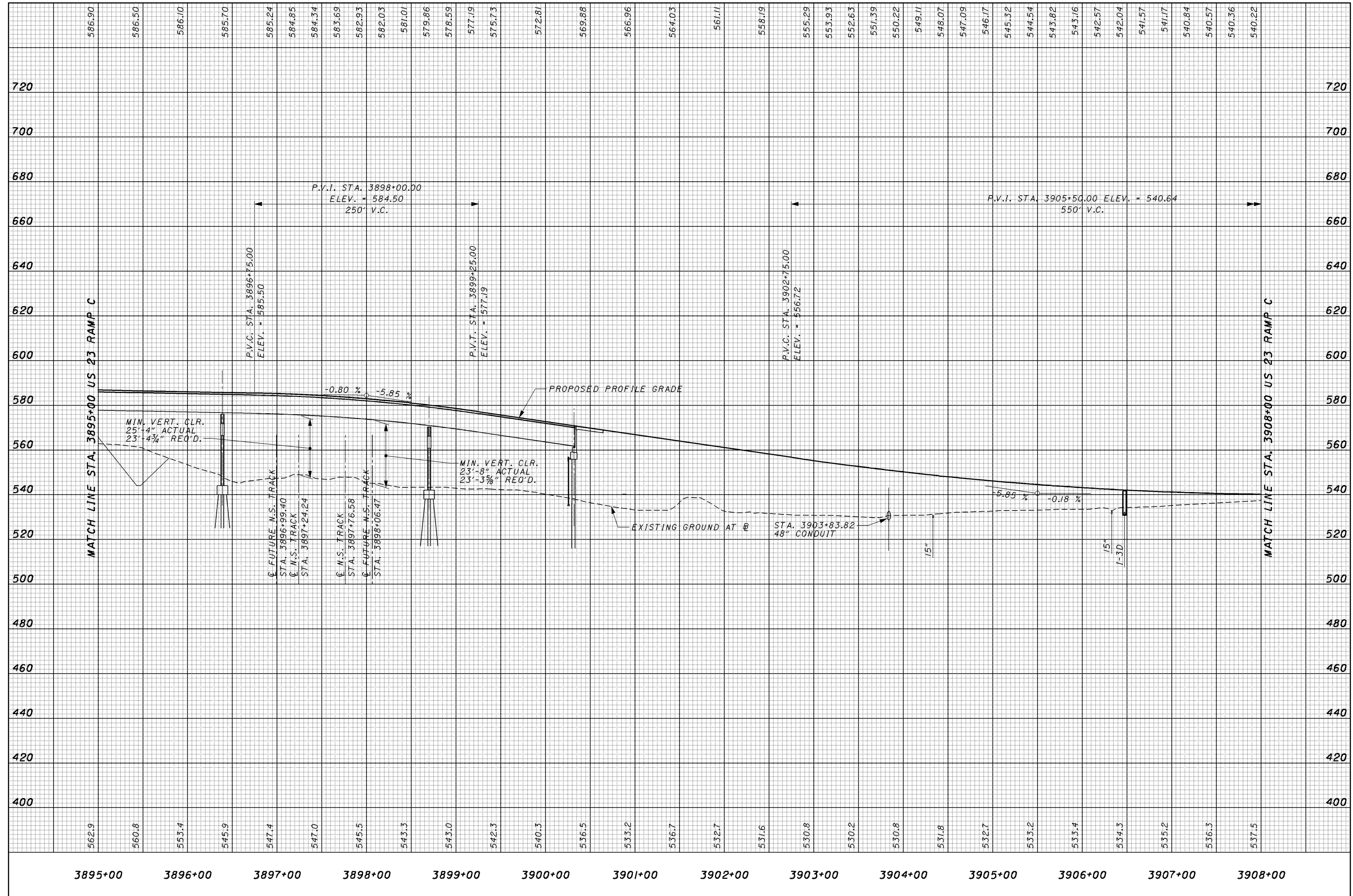
PLAN - US 23/ SR 823 INTERCHANGE RAMP C
STA. 3895+00.00 TO STA. 3908+00.00

SCI-823-10.13



CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US 23 RAMP C
	ESTIMATED QUANTITIES
	PLAN SR 823
	PLAN US 23 RAMP D
	DRAINAGE PROFILES
	CULVERT DETAILS
	DRAINAGE SCHEMATIC PLAN

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PROFILE - US 23/ SR 823 INTERCHANGE RAMP C
STA. 3895+00.00 TO STA. 3908+00.00

SCI-823-10.13



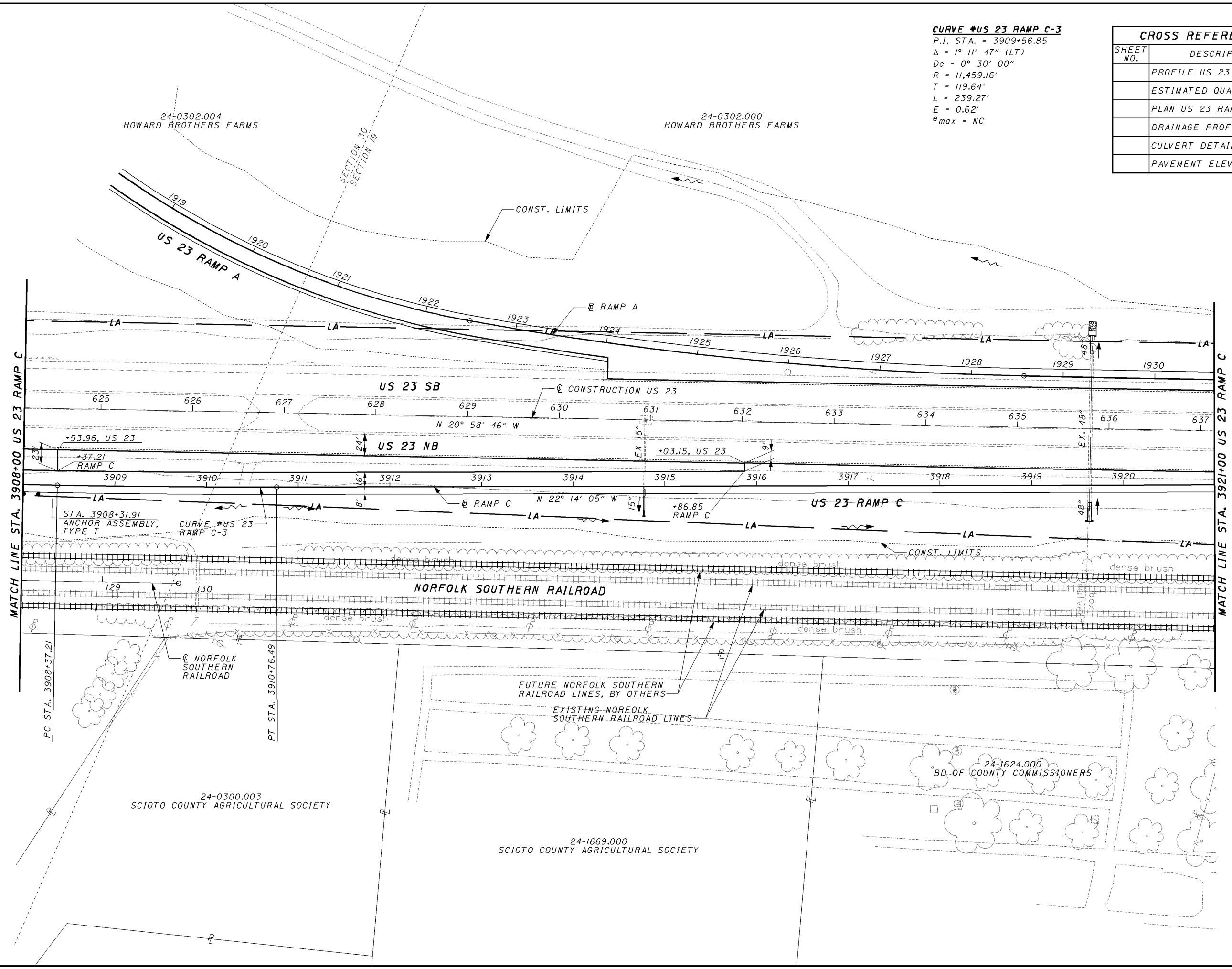
CALCULATED
ADW
CHECKED
CTS

PLAN - US 23/ SR 823 INTERCHANGE RAMP C
STA. 3908+00.00 TO STA. 3921+00.00

SCI-823-10.13

CURVE #US 23 RAMP C-3
P.I. STA. = 3909+56.85
 $\Delta = 1^\circ 11' 47''$ (LT)
 $D_c = 0^\circ 30' 00''$
 $R = 11,459.16'$
 $T = 119.64'$
 $L = 239.27'$
 $E = 0.62'$
 $e_{max} = NC$

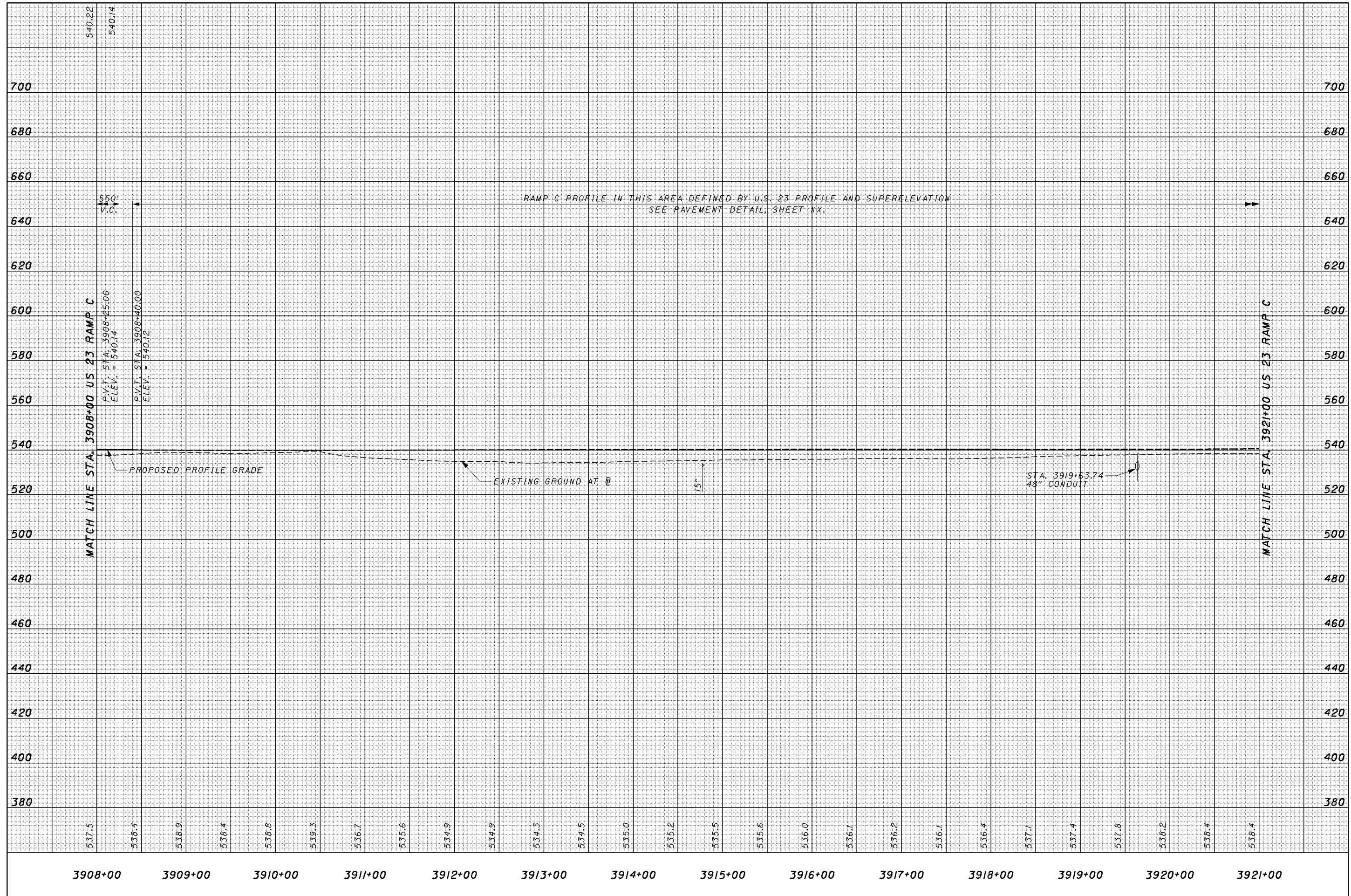
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US 23 RAMP C
	ESTIMATED QUANTITIES
	PLAN US 23 RAMP A
	DRAINAGE PROFILES
	CULVERT DETAILS
	PAVEMENT ELEV. DETAILS



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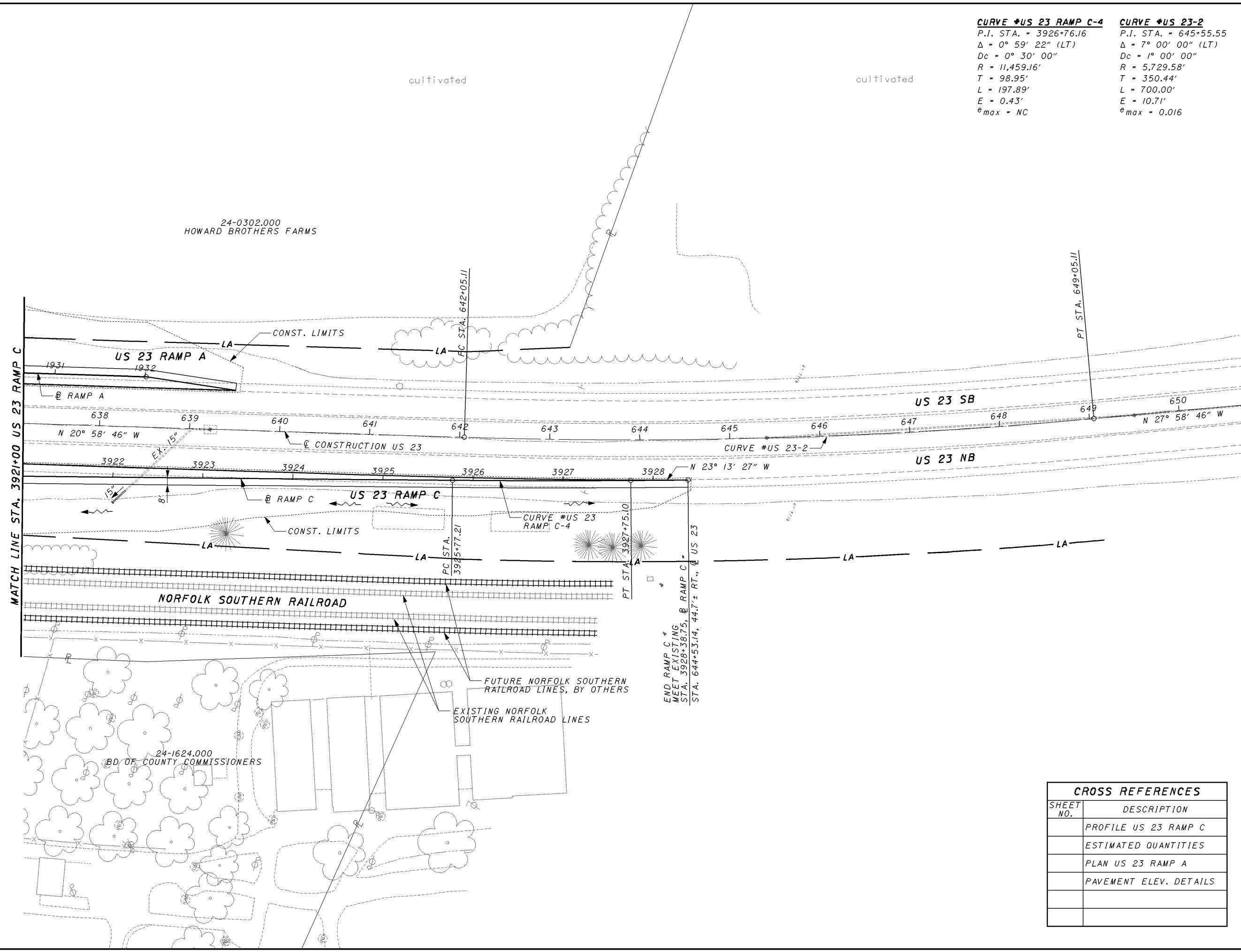
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CURVE #US 23 RAMP C-4	CURVE #US 23-2
P.I. STA. = 3926+76.16	P.I. STA. = 645+55.55
$\Delta = 0^\circ 59' 22''$ (LT)	$\Delta = 7^\circ 00' 00''$ (LT)
$D_c = 0^\circ 30' 00''$	$D_c = 1^\circ 00' 00''$
$R = 11,459.16'$	$R = 5,729.58'$
$T = 98.95'$	$T = 350.44'$
$L = 197.89'$	$L = 700.00'$
$E = 0.43'$	$E = 10.71'$
$e_{max} = NC$	$e_{max} = 0.016$

0 25 50 100
HORIZONTAL SCALE IN FEET

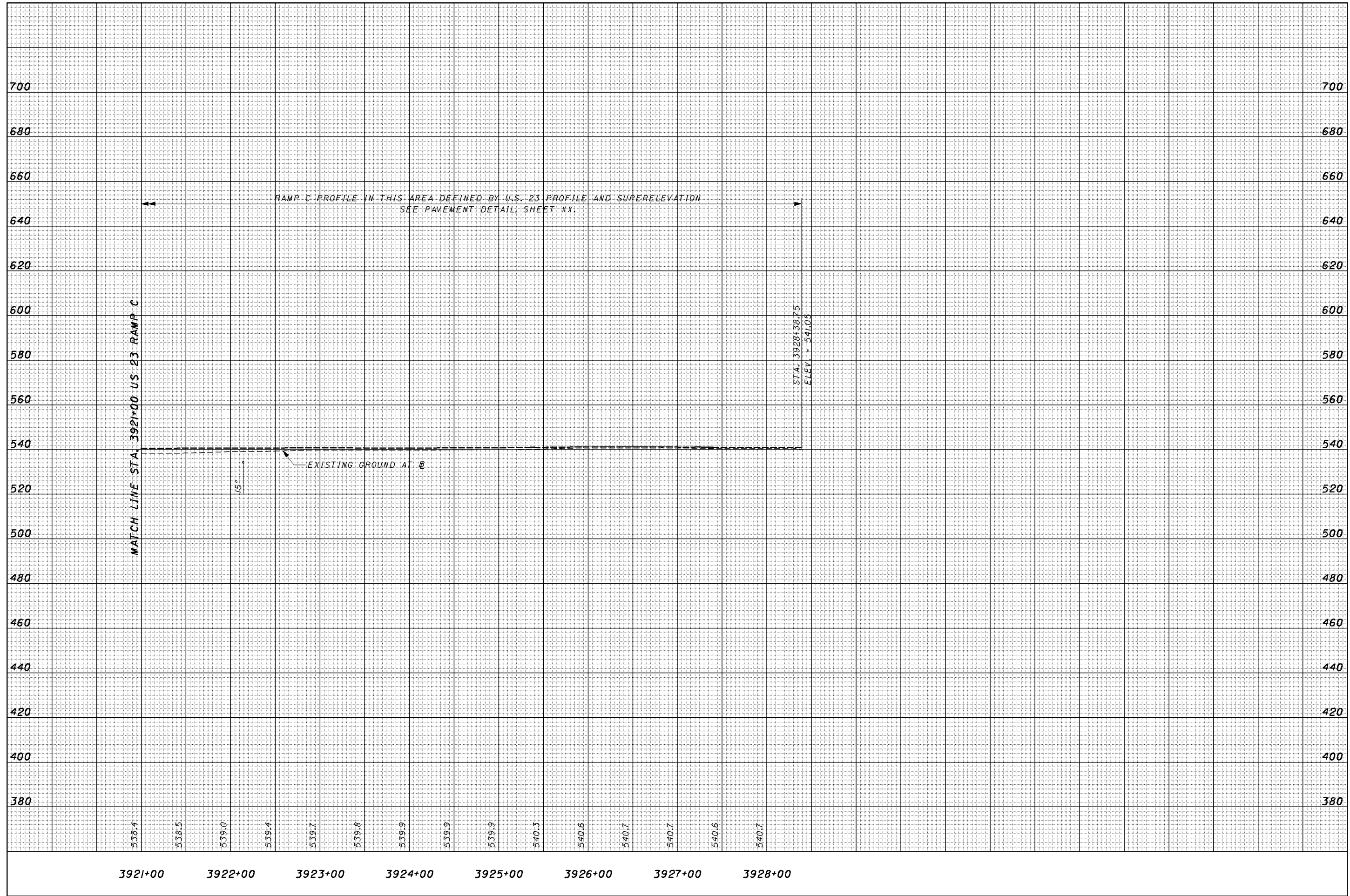
CALCULATED
ADW
CHECKED
CTS



PLAN - US 23/ SR 823 INTERCHANGE RAMP C
STA. 3921+00.00 TO STA. 3928+38.75

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US 23 RAMP C
	ESTIMATED QUANTITIES
	PLAN US 23 RAMP A
	PAVEMENT ELEV. DETAILS

SCI-823-10.13



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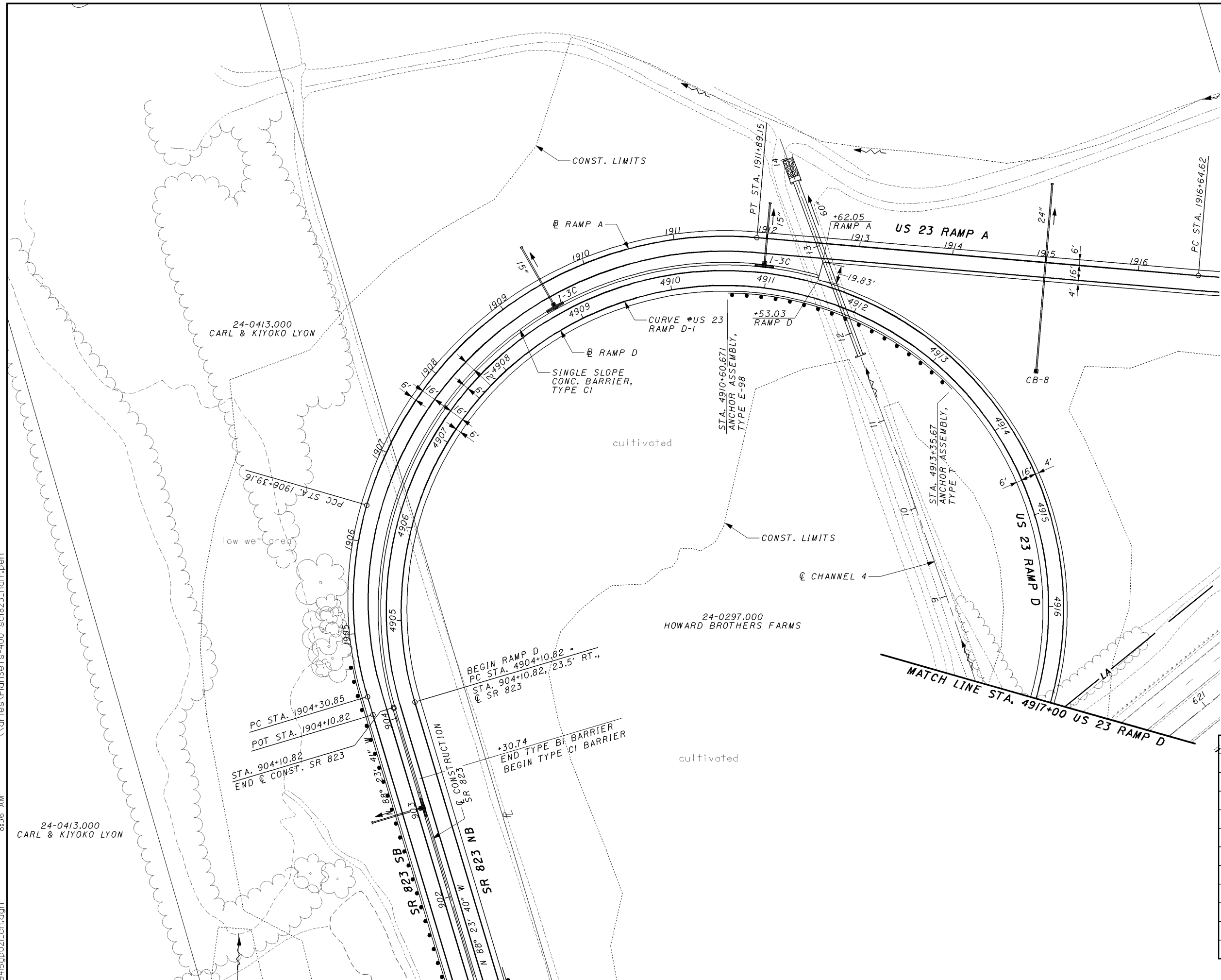
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CURVE #US 23 RAMP D-1
 P.I. STA. = 4911+40.23
 $\Delta = 247^\circ 24' 55''$ (RT)
 $D_c = 16^\circ 30' 00''$
 $R = 347.25'$
 $Ls2 = 200.00'$
 $\text{Theta}2 = 16^\circ 30' 00''$
 $LT2 = 133.92'$
 $ST2 = 67.20'$
 $x2 = 198.35'$
 $y2 = 19.09'$
 $k2 = 99.72'$
 $\rho2 = 4.79'$
 $\Delta c = 230^\circ 54' 55''$ (RT)
 $Lc = 1,399.49'$
 $Ts1 = 525.71'$
 $Ts2 = 422.79'$
 $Es = 282.79'$
 $e_{max} = 0.079$



PLAN - US 23/SR 823 INTERCHANGE RAMP D
STA. 4904+10.82 TO STA. 4917+00.00

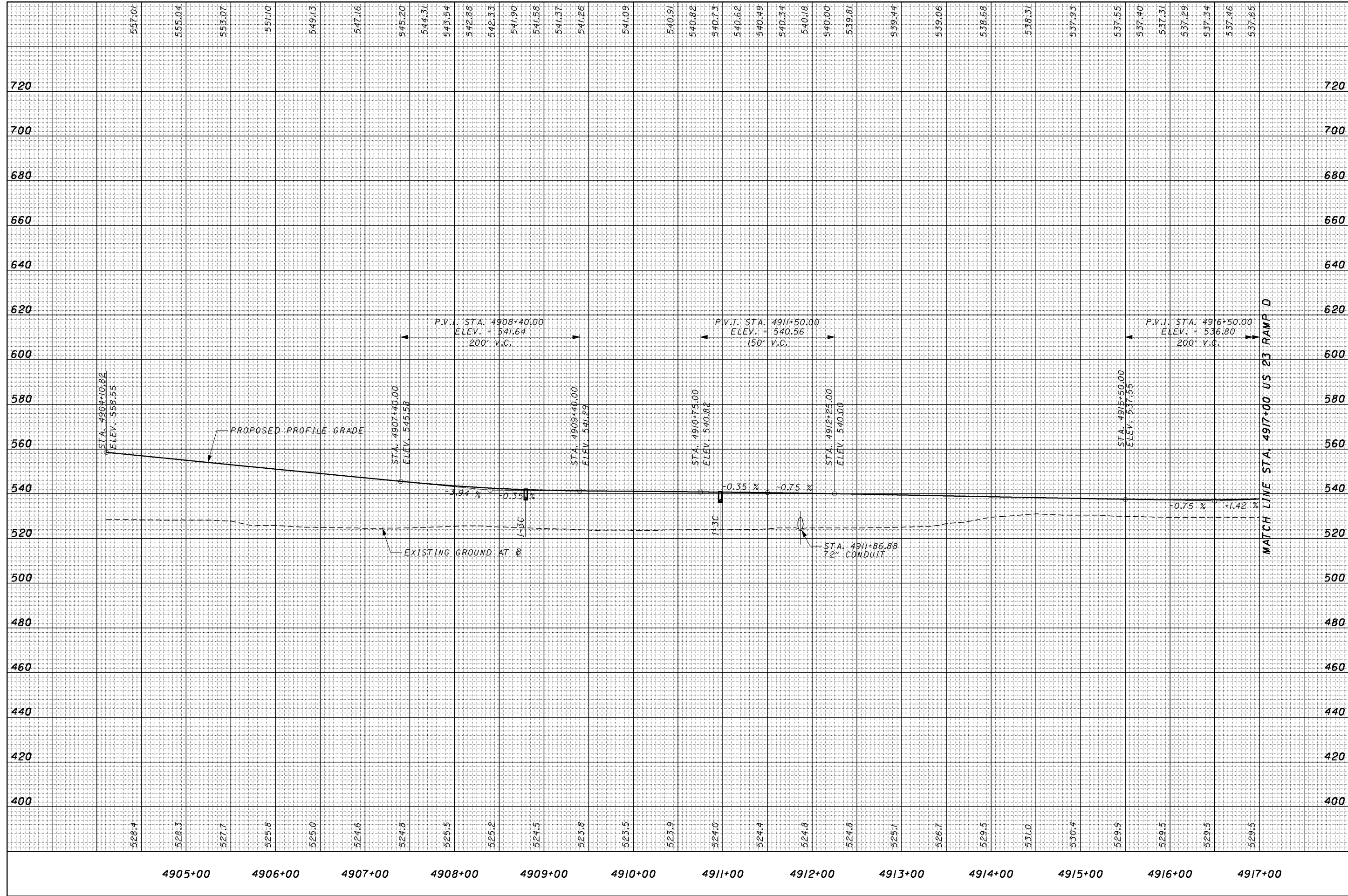
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BEGIN RAMP D
 PC STA. 4904+10.82 =
 STA. 904+10.82, 23.5' RT.,
 @ SR 823

+30.74
 END TYPE B1 BARRIER
 BEGIN TYPE C1 BARRIER

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US 23 RAMP D
	ESTIMATED QUANTITIES
	PLAN US 23 RAMP A
	PLAN SR 823
	DRAINAGE DETAILS
	CULVERT DETAILS
	PAVEMENT ELEV. DETAILS
	DRAINAGE SCHEMATIC PLAN



PROFILE - US 23/ SR 823 INTERCHANGE RAMP D
STA. 4904+10.82 TO STA. 4917+00.00

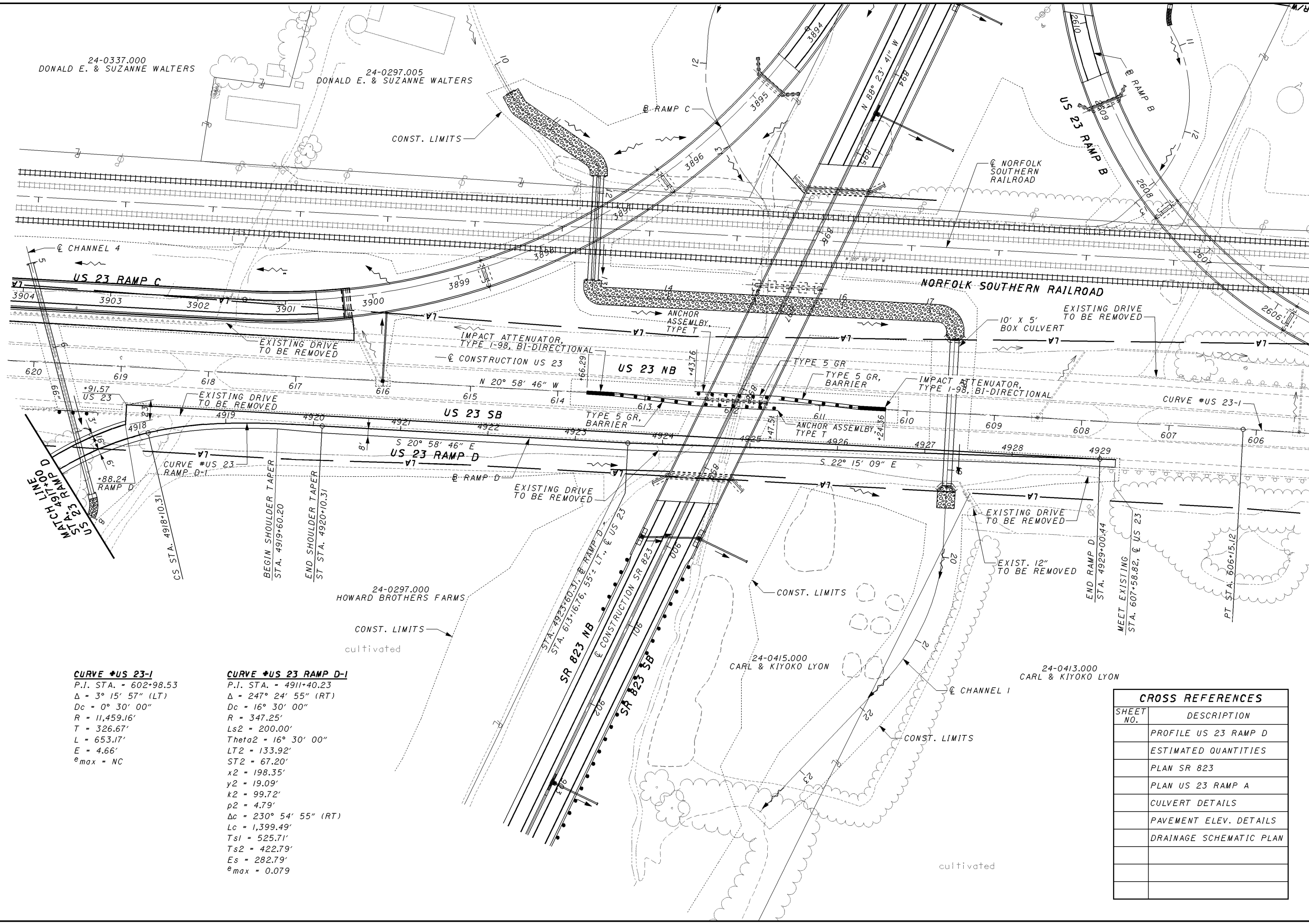


CALCULATED
ADW
CHECKED
CTS

**PLAN - US 23/SR 823 INTERCHANGE RAMP D
STA. 4917+00.00 TO STA. 4923+61.09**

SCI-823-10.13

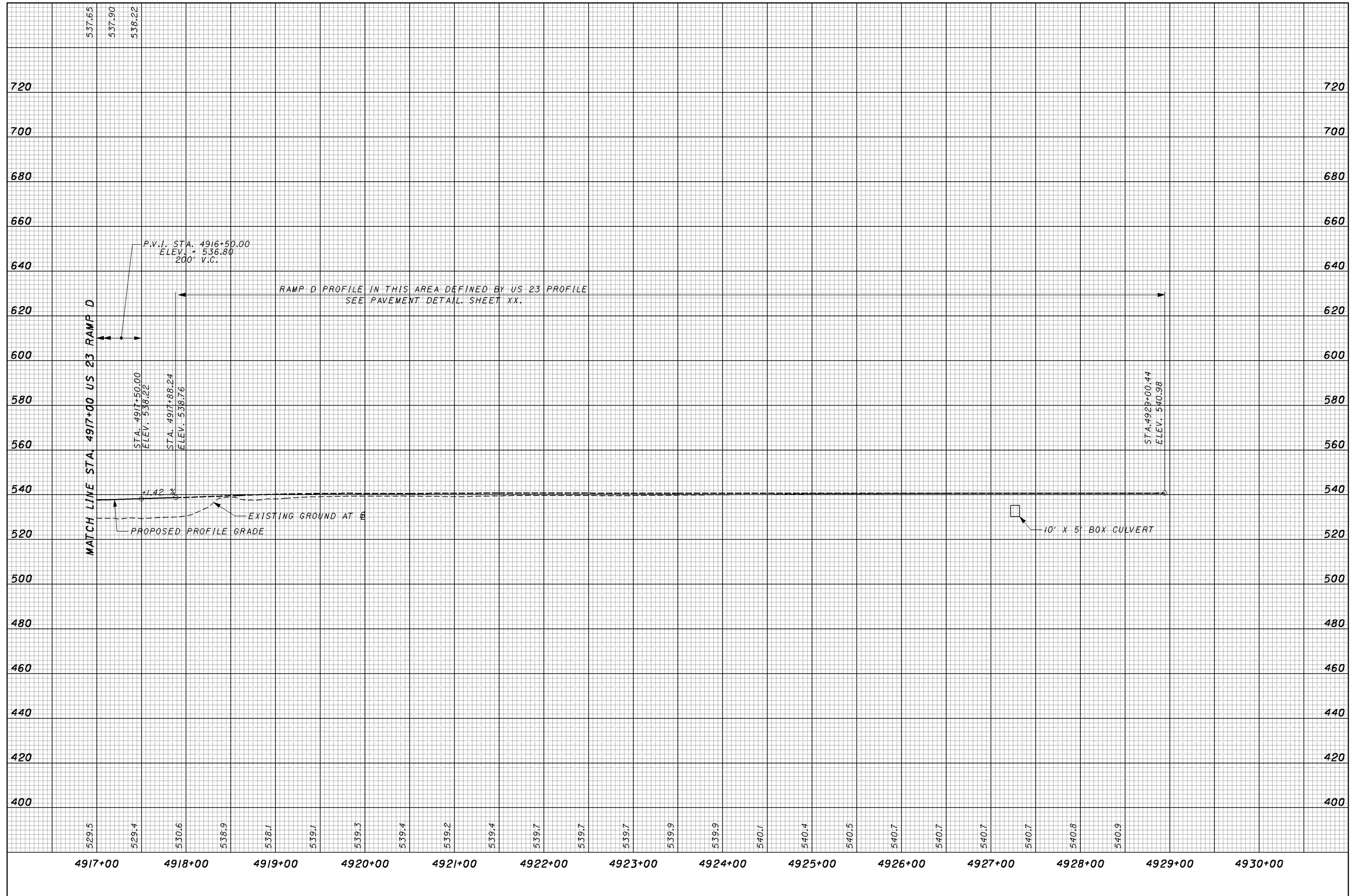
11/23/2007 8:36 AM \\aries\PlanSets-400_sci823_half.pen
melben 19415gp022_ch.dgn



CURVE #US 23-1
P.I. STA. = 602+98.53
 $\Delta = 3^\circ 15' 57''$ (LT)
Dc = $0^\circ 30' 00''$
R = 11,459.16'
T = 326.67'
L = 653.17'
E = 4.66'
 $e_{max} = NC$

CURVE #US 23 RAMP D-1
P.I. STA. = 4911+40.23
 $\Delta = 247^\circ 24' 55''$ (RT)
Dc = $16^\circ 30' 00''$
R = 347.25'
Ls2 = 200.00'
Theta2 = $16^\circ 30' 00''$
LT2 = 133.92'
ST2 = 67.20'
x2 = 198.35'
y2 = 19.09'
k2 = 99.72'
p2 = 4.79'
 $\Delta c = 230^\circ 54' 55''$ (RT)
Lc = 1,399.49'
Tsl = 525.71'
Ts2 = 422.79'
Es = 282.79'
 $e_{max} = 0.079$

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US 23 RAMP D
	ESTIMATED QUANTITIES
	PLAN SR 823
	PLAN US 23 RAMP A
	CULVERT DETAILS
	PAVEMENT ELEV. DETAILS
	DRAINAGE SCHEMATIC PLAN

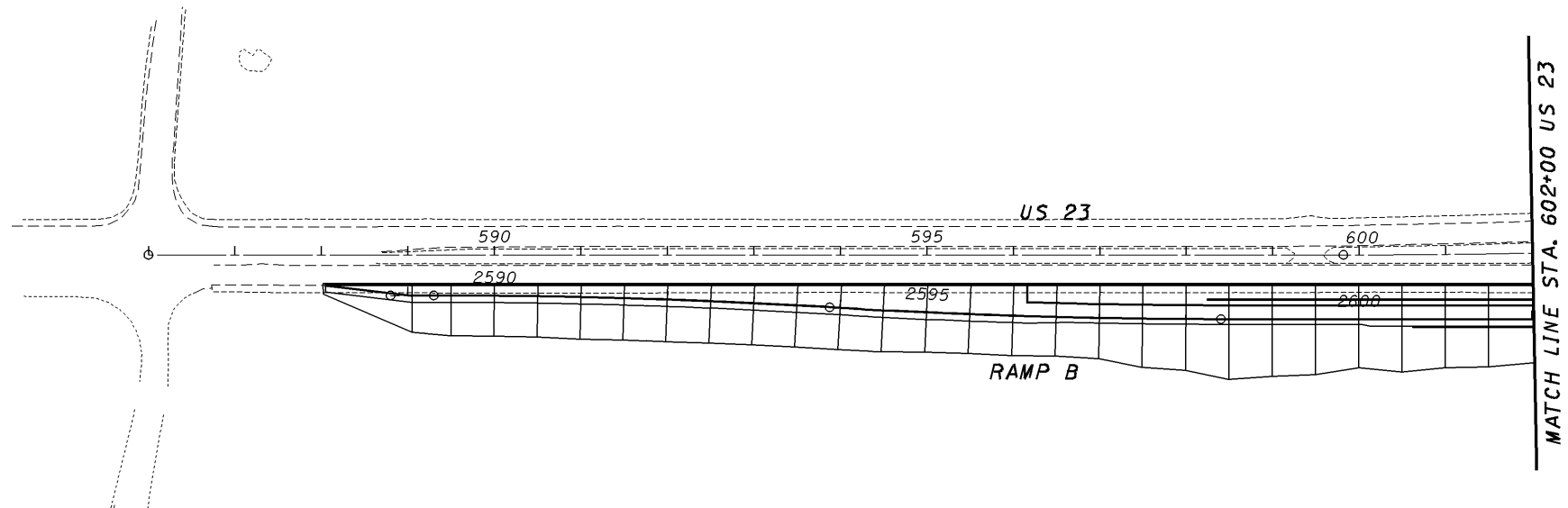
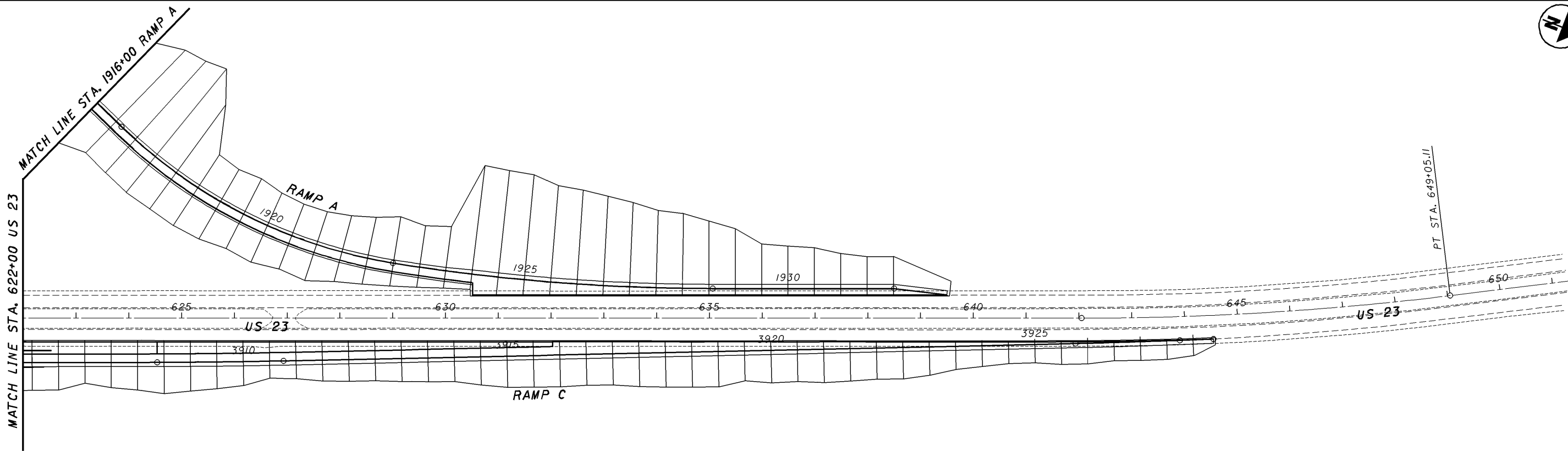


CALCULATED
ADW
CHECKED
CTS

PROFILE - US 23/ SR 823 INTERCHANGE RAMP D
STA. 4917+00.00 TO STA. 4929+00.44

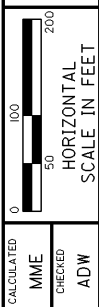
SCI-823-10.13

meiben
1945x1001_ch.dgn
11/23/2007
8:37 AM
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NOTES:

- 1. FOR HORIZONTAL CURVE DATA, SEE SHEET XX.
- 2. CROSS SECTIONS WERE CUT AT EVERY 50' WITHIN THE INTERCHANGE LIMITS AND BEYOND INTERCHANGE LIMITS.

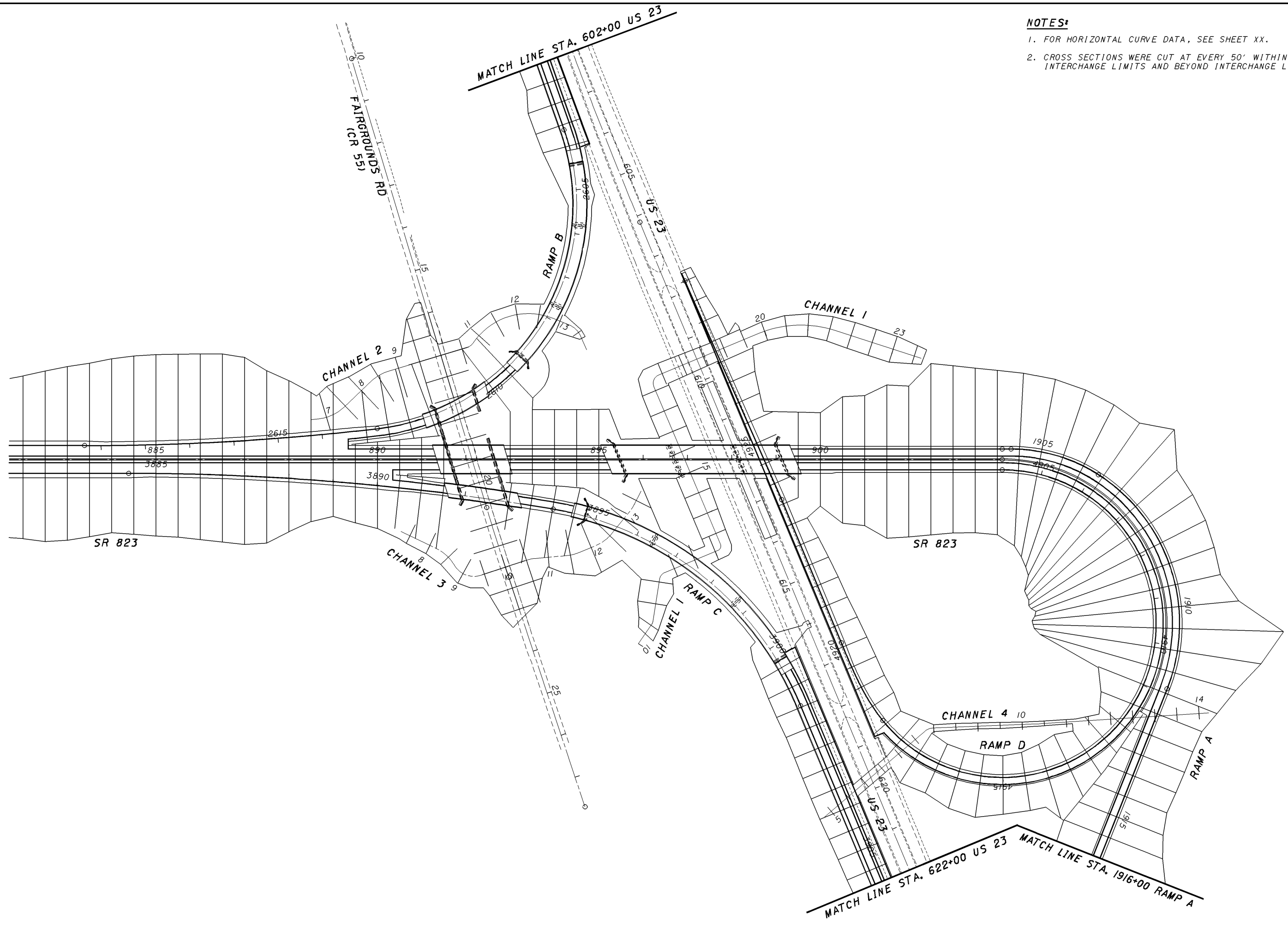


**CROSS SECTION LAYOUT
SR 823 AND US 23 INTERCHANGE**

SCI-823-10.13

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\\aries\PlanSets-400_sci823_half.pen

11/23/2007
8:37 AM



NOTES:

- 1. FOR HORIZONTAL CURVE DATA, SEE SHEET XX.
- 2. CROSS SECTIONS WERE CUT AT EVERY 50' WITHIN THE INTERCHANGE LIMITS AND BEYOND INTERCHANGE LIMITS.

CALCULATED	MME	CHECKED	ADW

0 100 200
HORIZONTAL SCALE IN FEET

**CROSS SECTION LAYOUT
SR 823 AND US 23 INTERCHANGE**

SCI-823-10.13

3/4/12 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

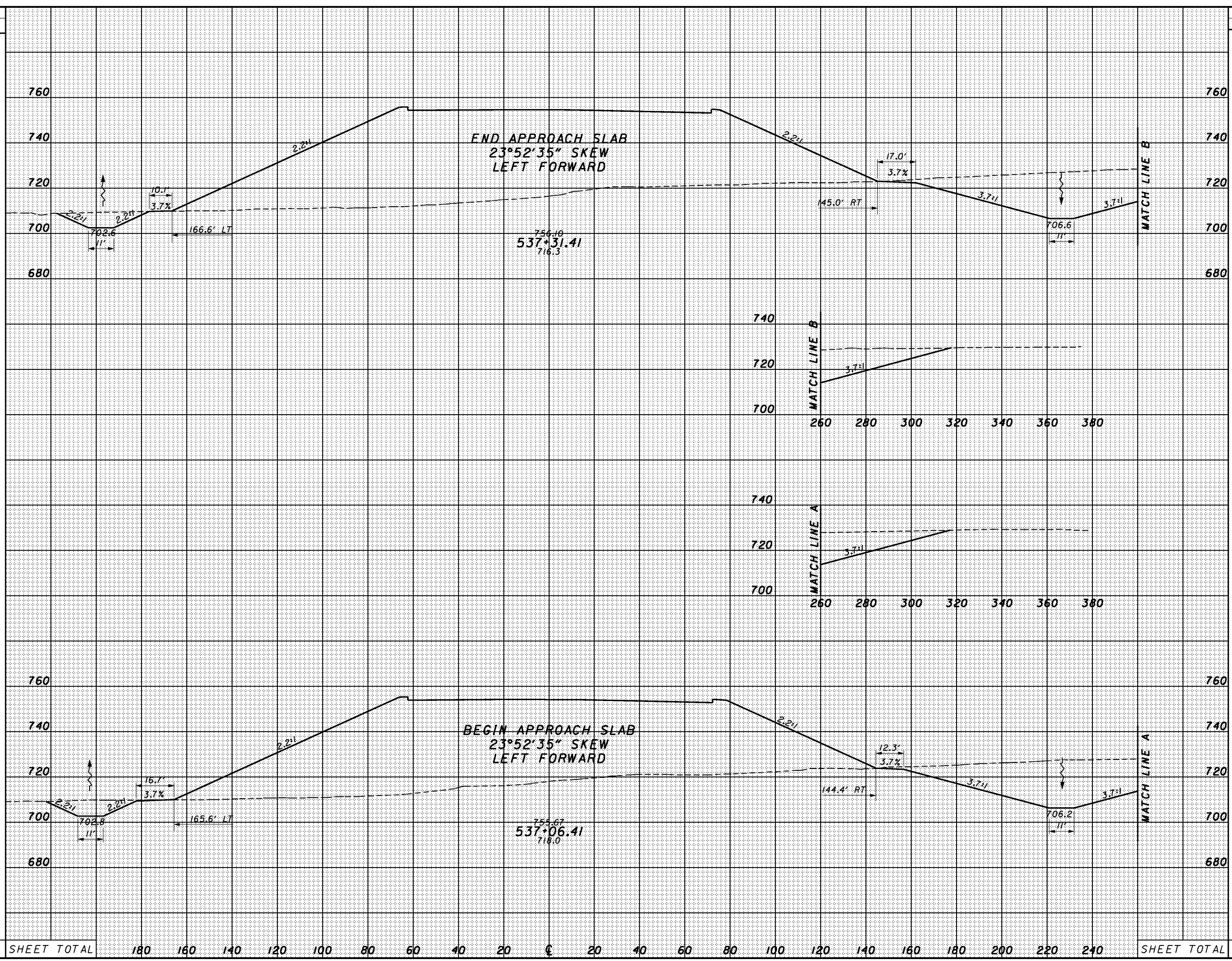
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 537+06.41 TO STA. 537+37.41

SCI-823-10.13

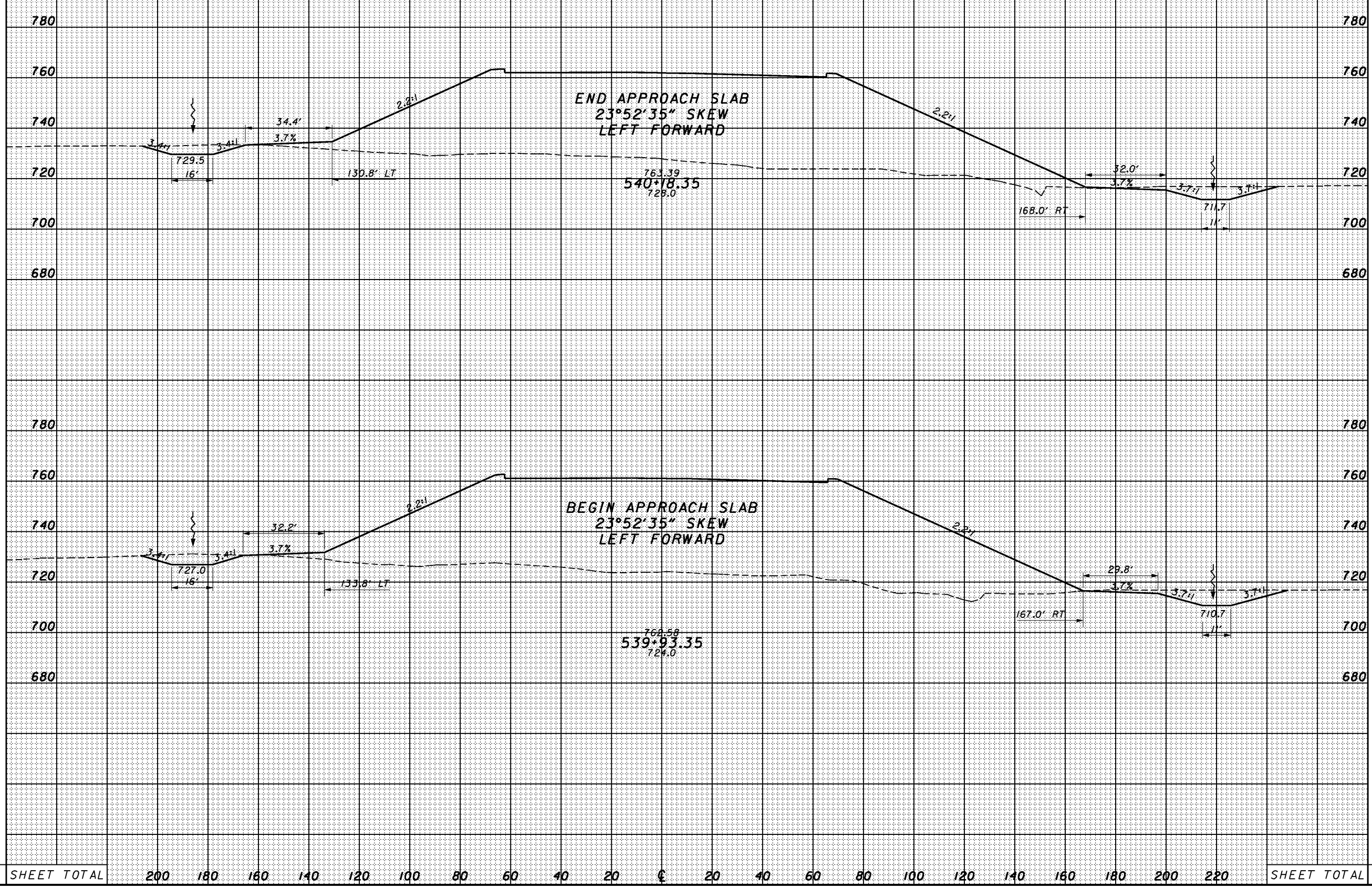


SHEET TOTAL	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	240	SHEET TOTAL
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SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3/4/13 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



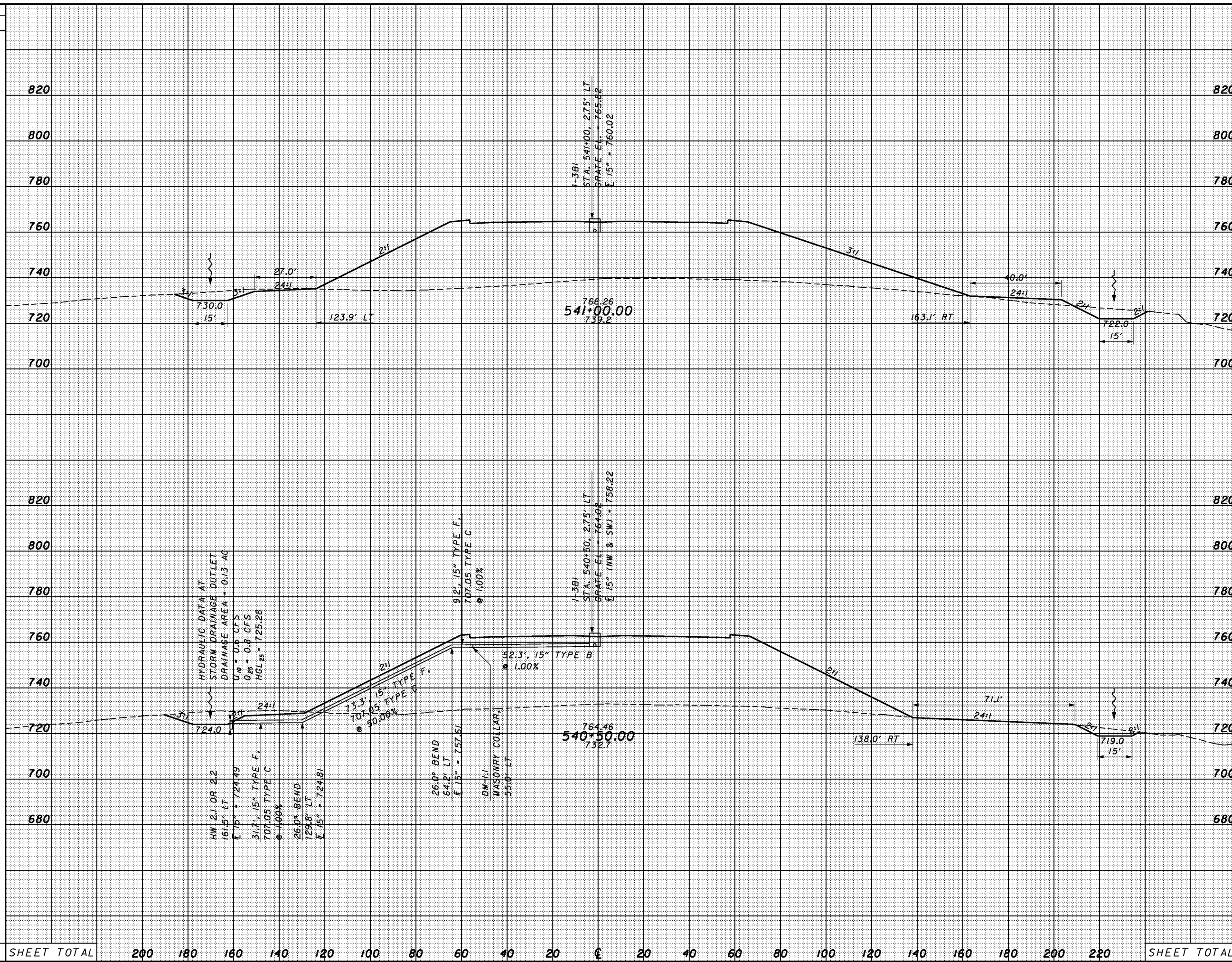
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CROSS SECTIONS
SR823 - STA. 539+93.35 TO STA. 540+18.35
SCI-823-10.13
124

3/4/14 PM 1/28/2008 g:\co03\0064\road\phase 2\17917xs_sr823.dgn

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



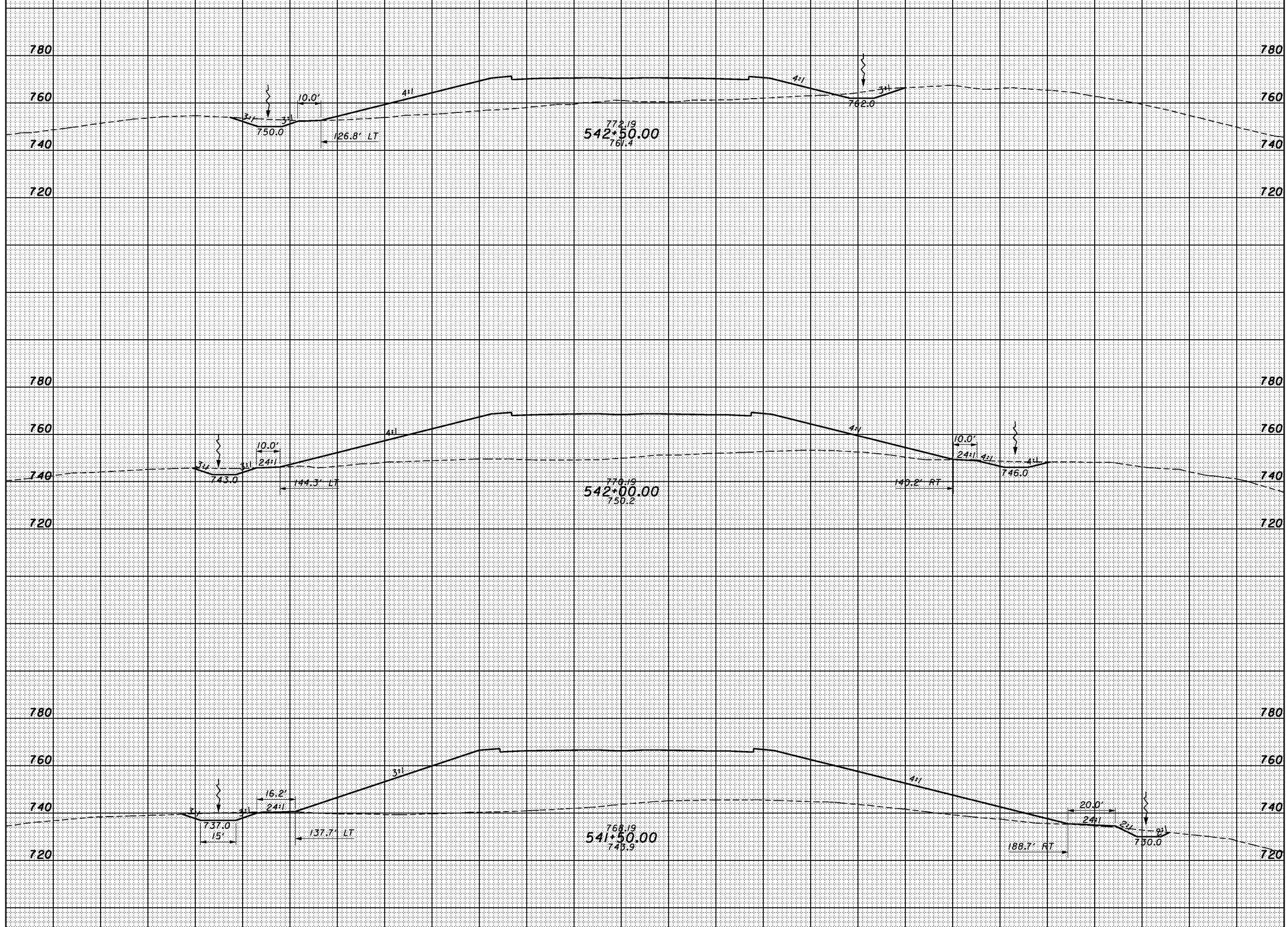
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CROSS SECTIONS
SR823 - STA. 540+50.00 TO STA. 541+00.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 541+50.00 TO STA. 542+50.00

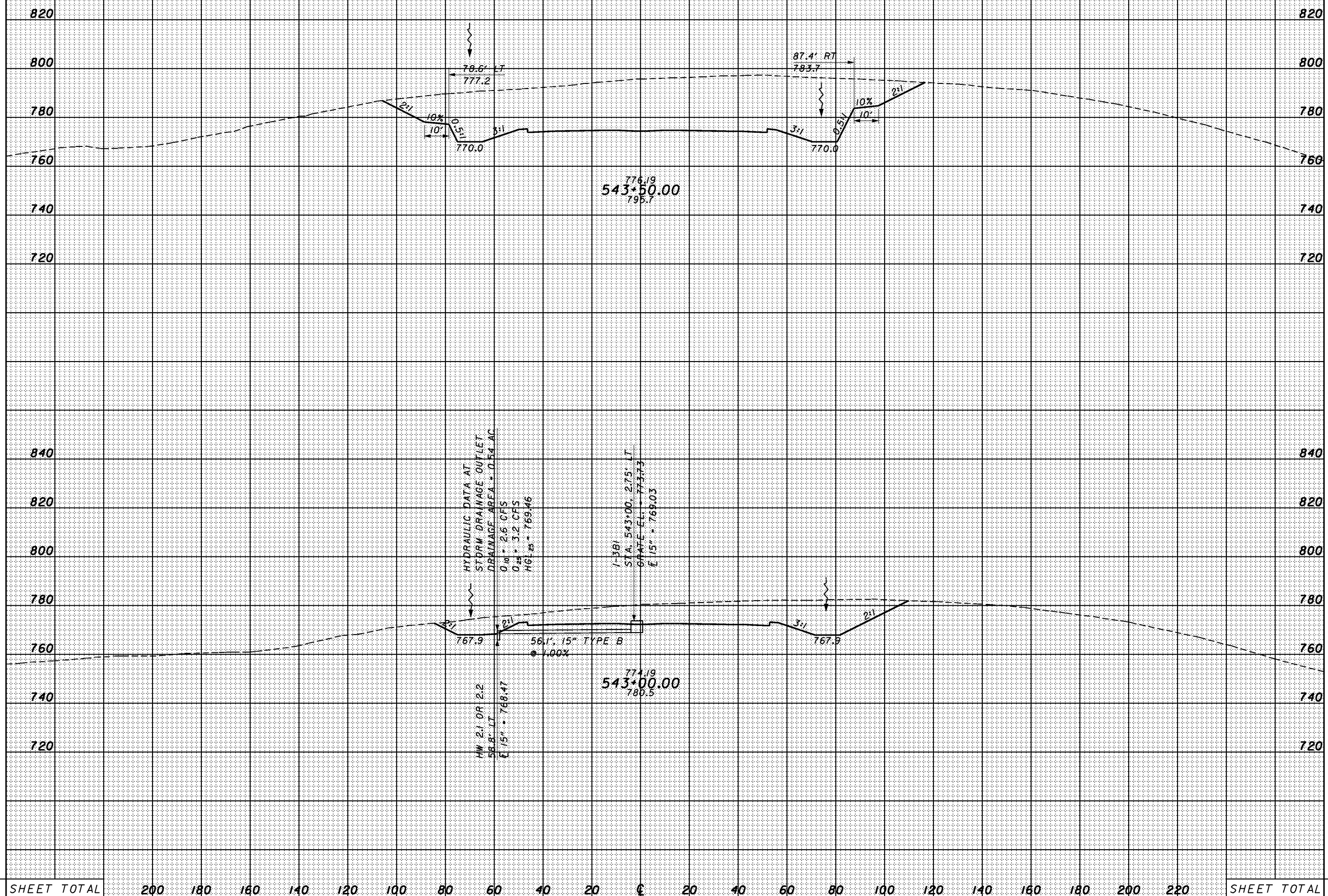
SCI-823-10.13

3/4/15 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_sr823.dgn

3:44:16 PM 1/28/2008 g:\co03\0064\road\phase 2\79917xs_sr823.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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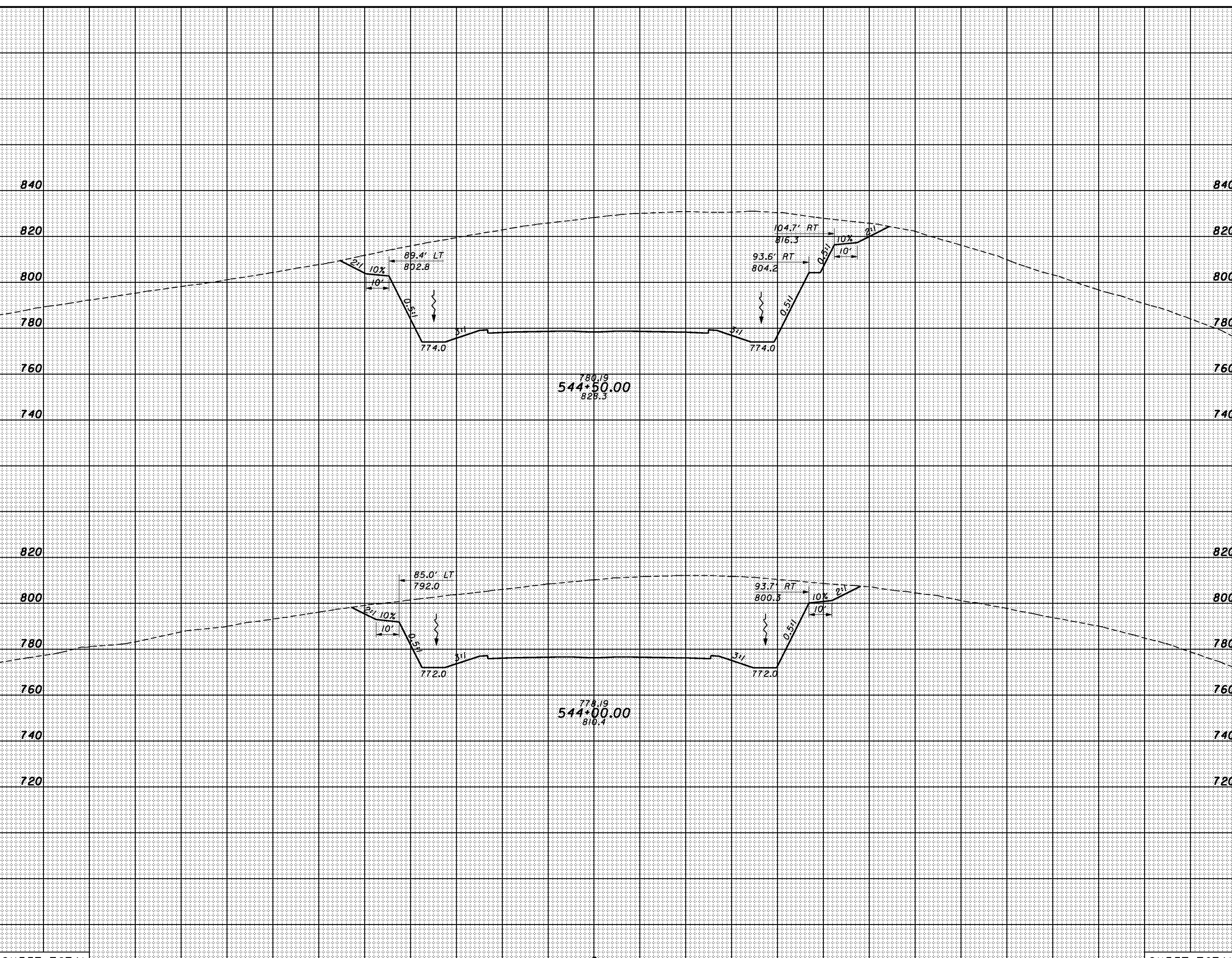
CROSS SECTIONS
SR823 - STA. 543+00.00 TO STA. 543+50.00

SCI-823-10.13

3:44:17 PM 1/28/2008 g:\co03\0064\road\phase 2\79917xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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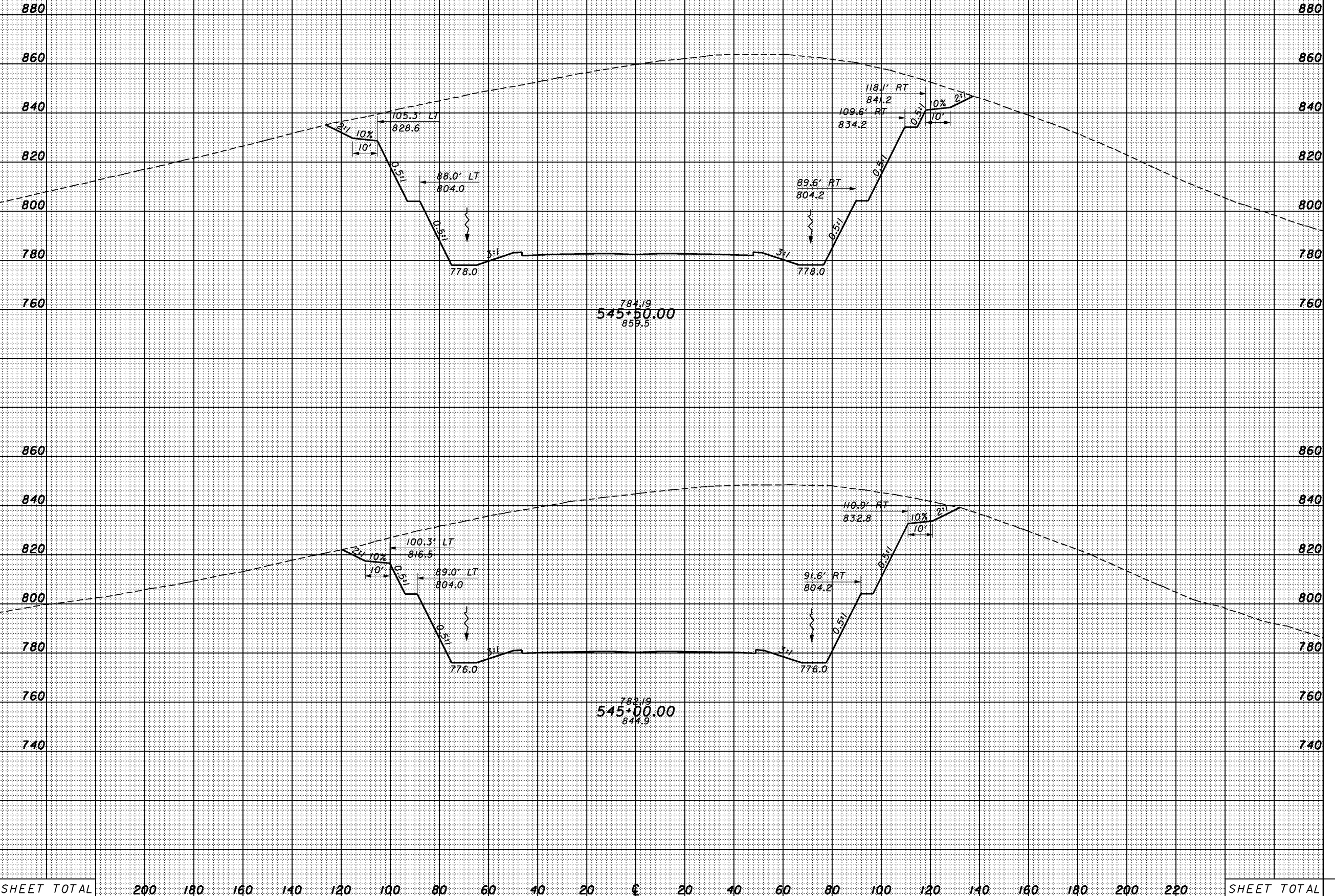
CROSS SECTIONS
SR823 - STA. 544+00.00 TO STA. 544+50.00

SCI-823-10.13

3/4/08 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



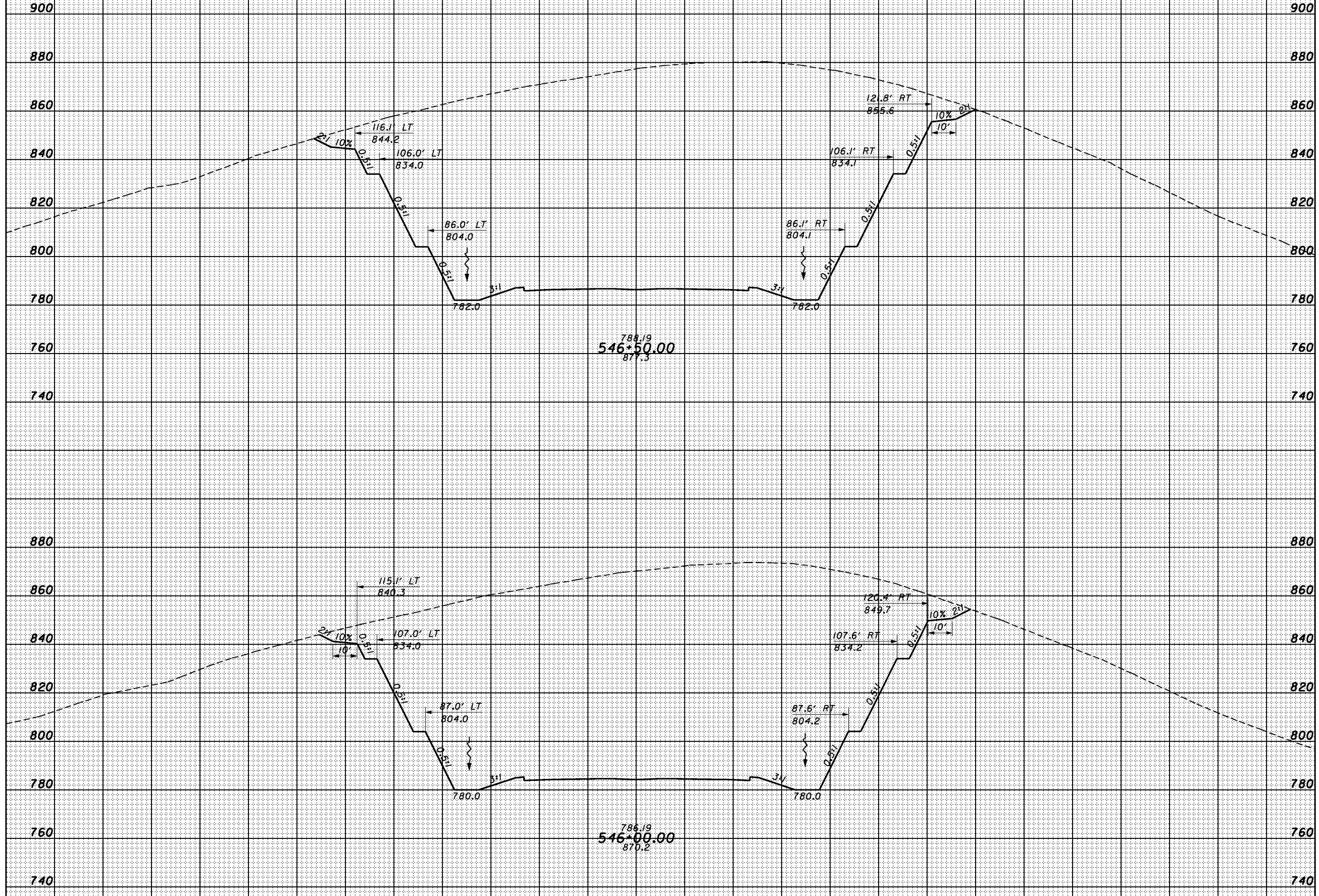
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CROSS SECTIONS
SR823 - STA. 545+00.00 TO STA. 545+50.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

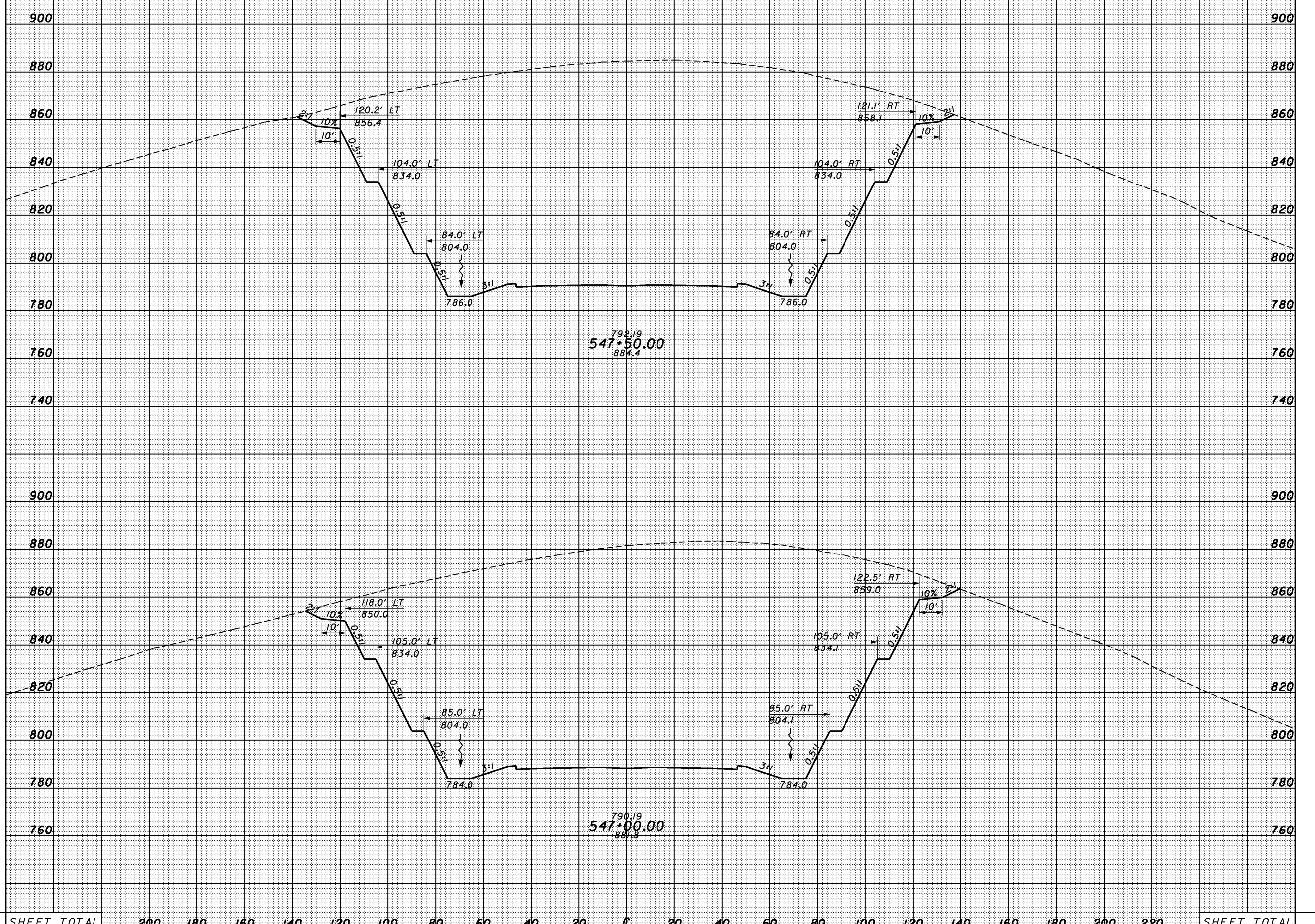
CROSS SECTIONS
SR823 - STA. 546+00.00 TO STA. 546+50.00

SCI-823-10.13

3/4/08 PM 1/28/2008 g:\c003\0064\road\phase 2\79977xs_sr823.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

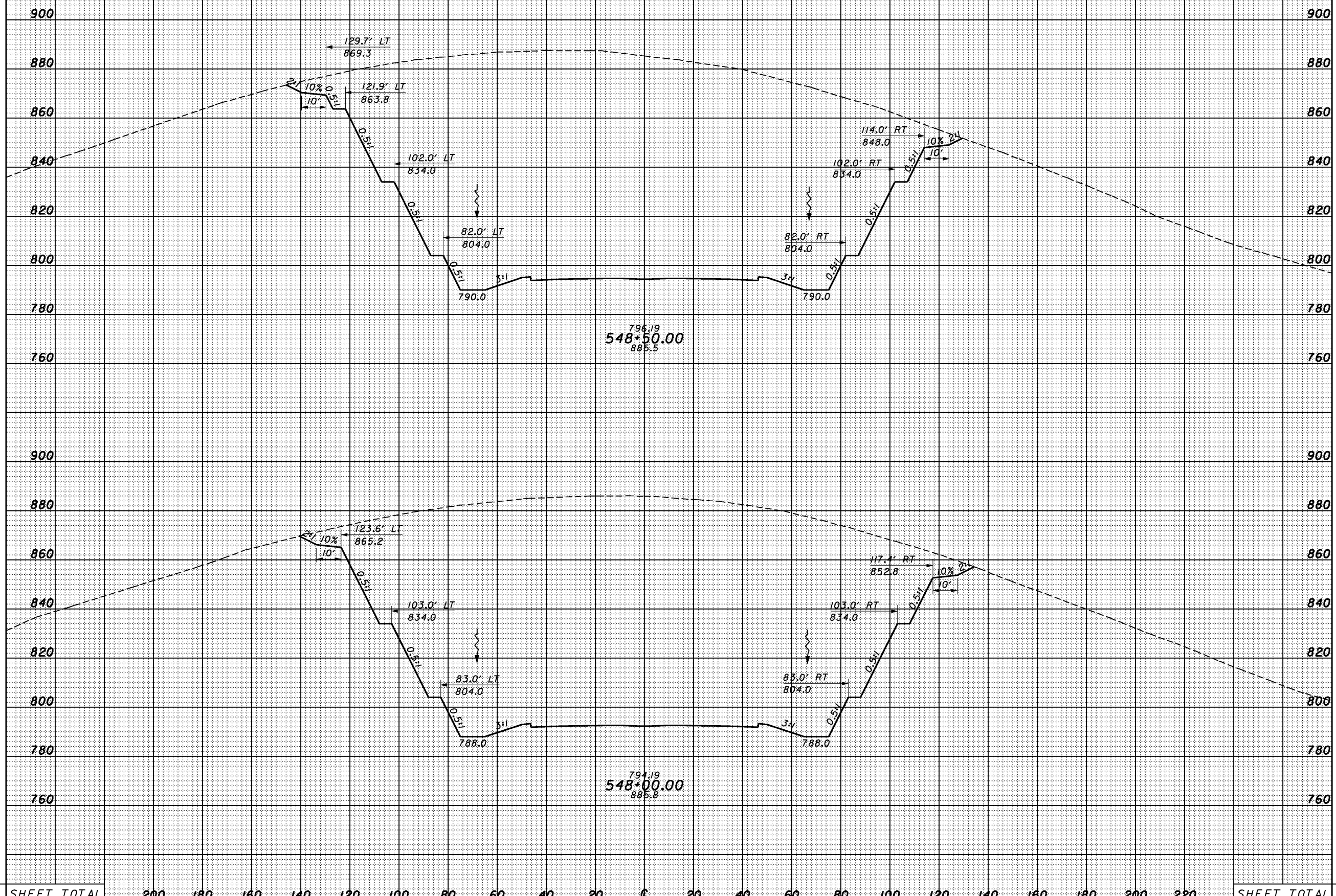
CROSS SECTIONS
SR823 - STA. 547+00.00 TO STA. 547+50.00

SCI-823-10.13

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SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 548+00.00 TO STA. 548+50.00

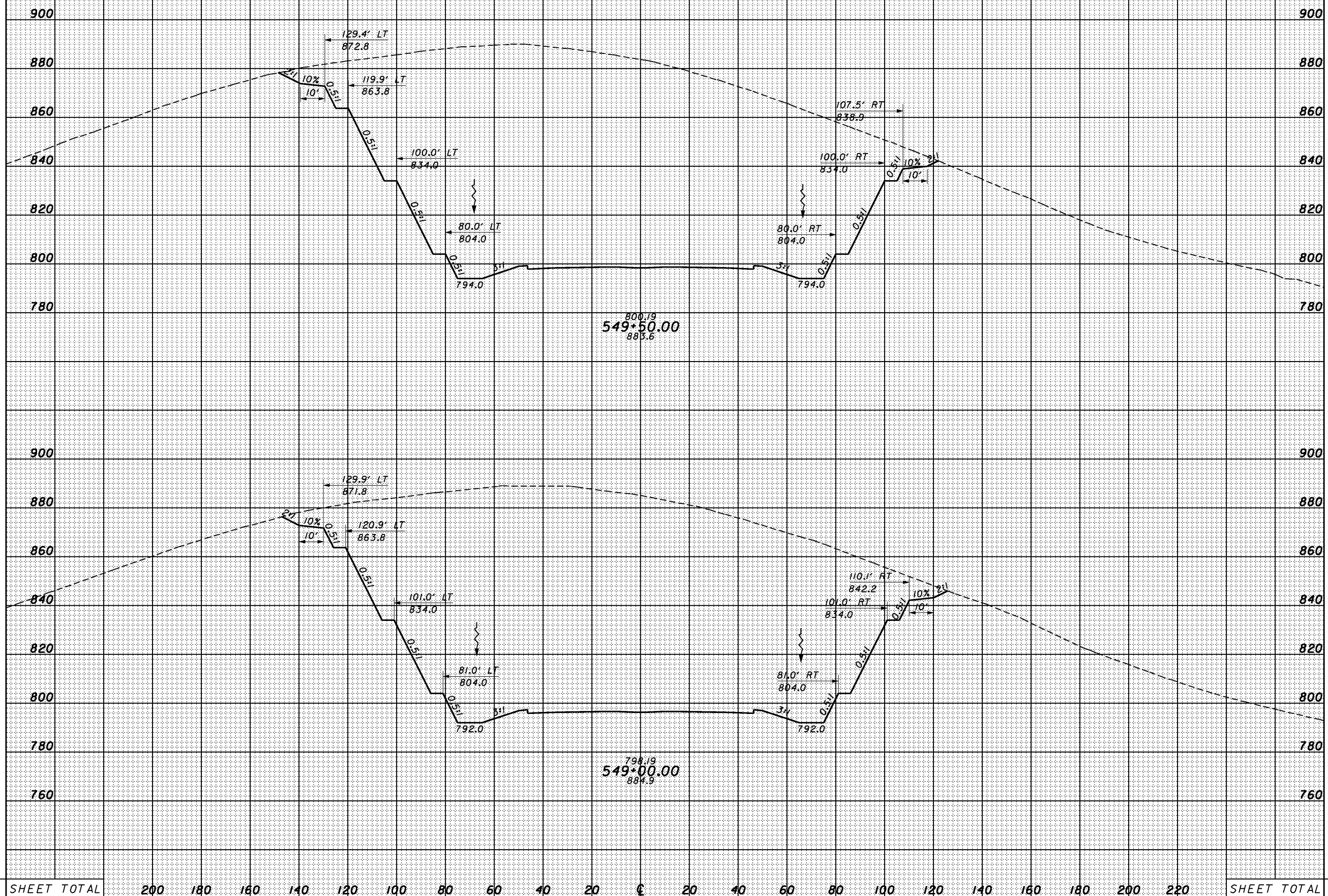
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SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3/4:22 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



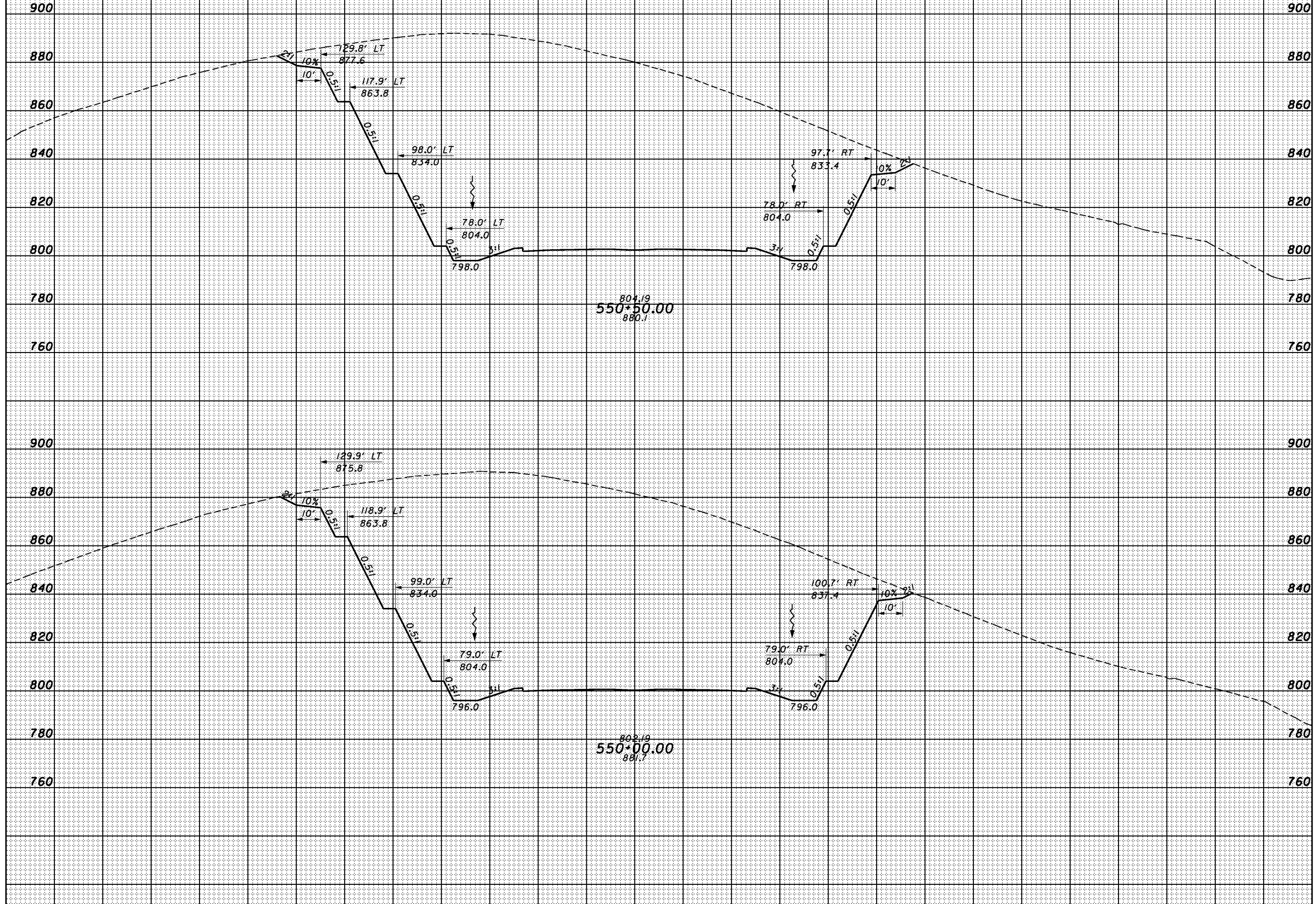
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 549+00.00 TO STA. 549+50.00

SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 550+00.00 TO STA. 550+50.00

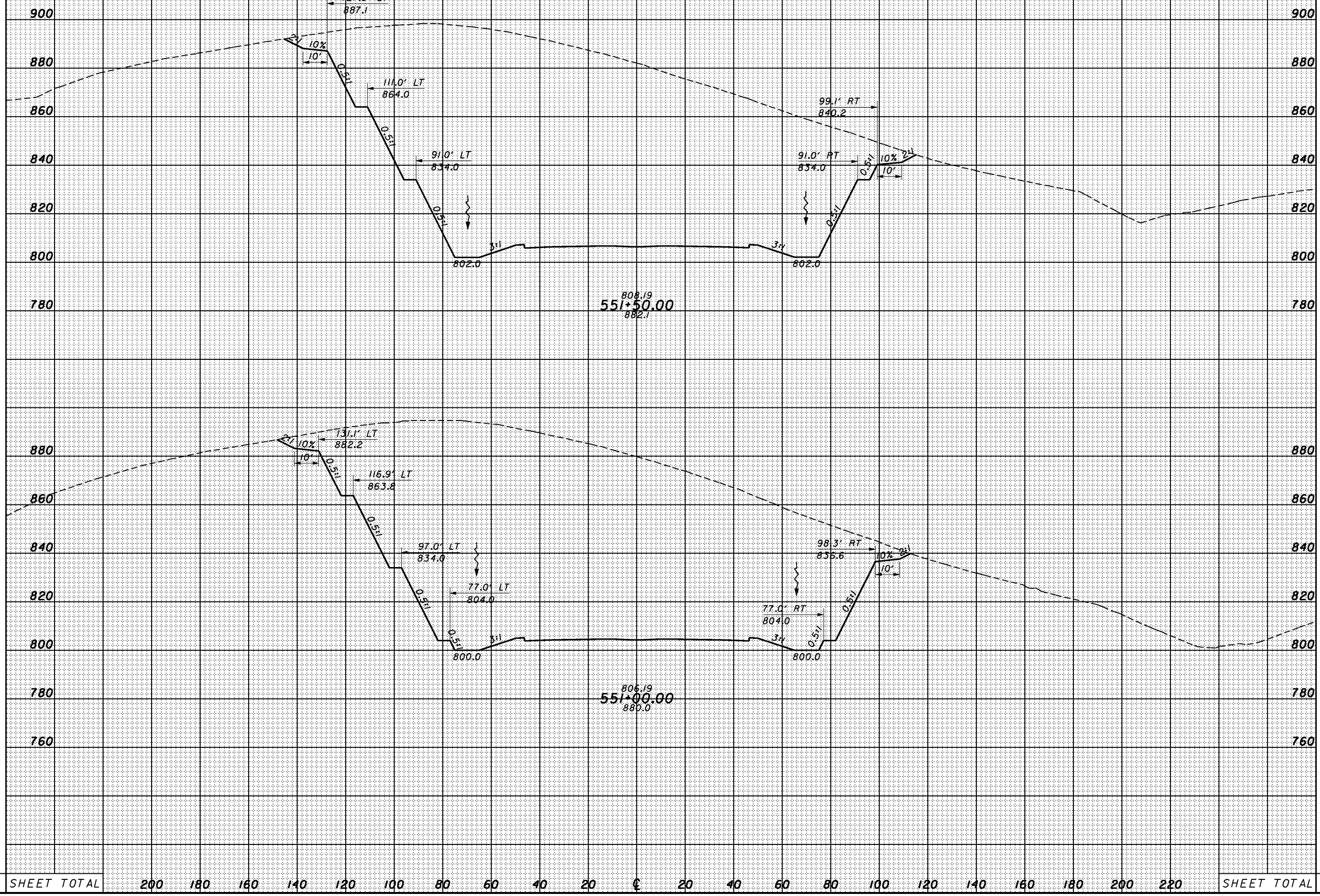
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SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3/4/24 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

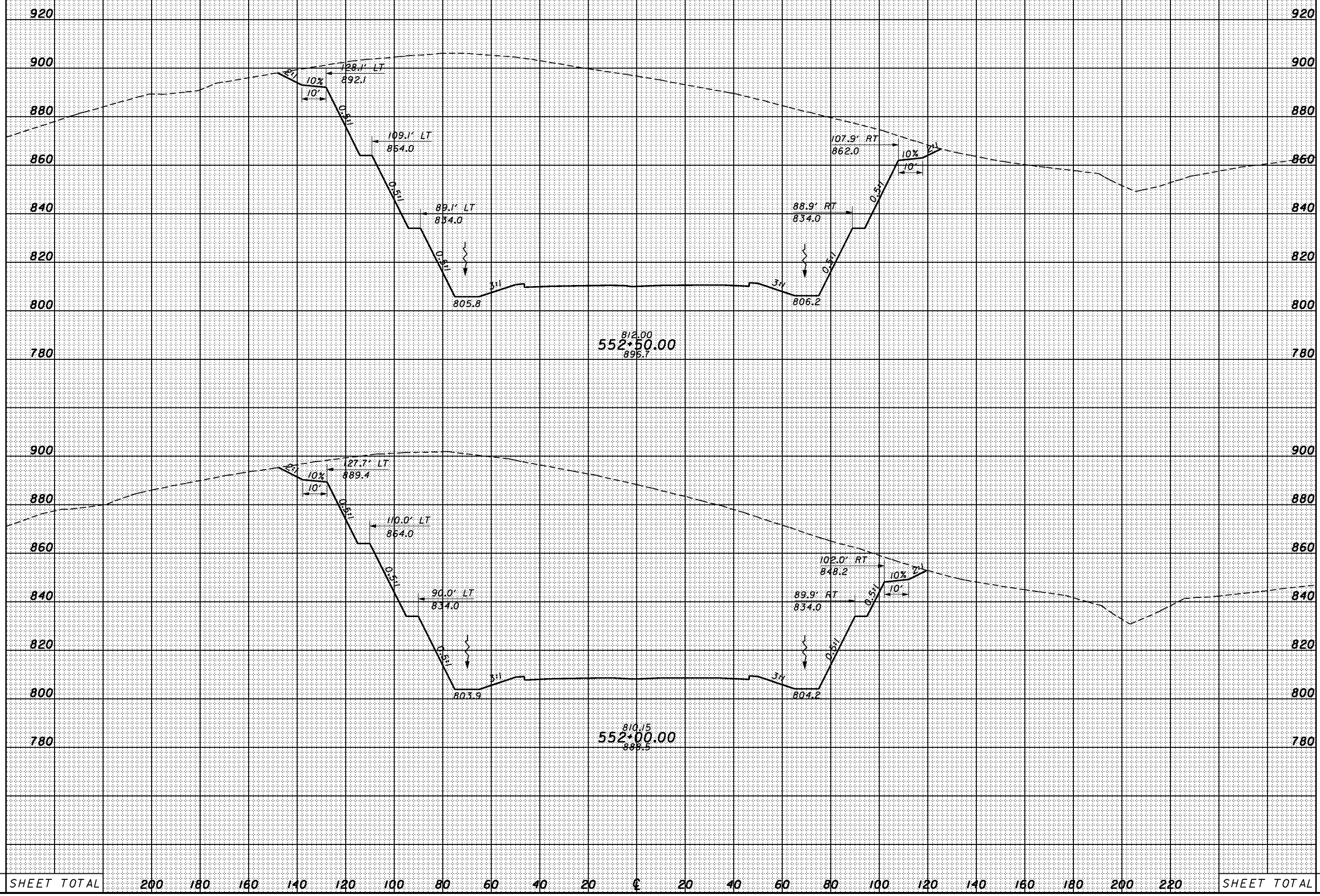
CROSS SECTIONS
SR823 - STA. 551+00.00 TO STA. 551+50.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

3/4/25 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

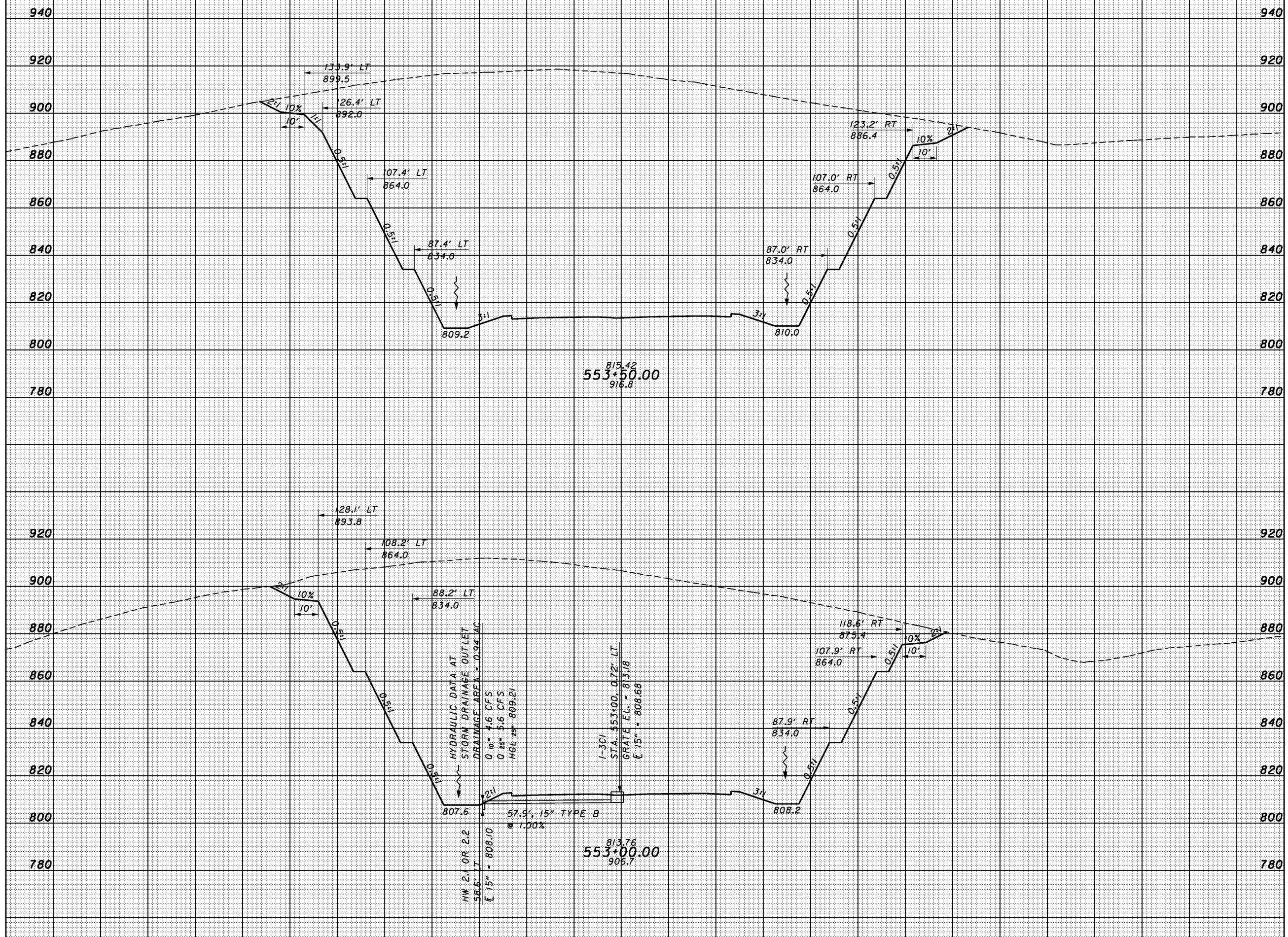
SR823 - STA. 552+00.00 TO STA. 552+50.00

SCI-823-10.13

3/4/26 PM 1/28/2008 g:\c03\0064\Road\Phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



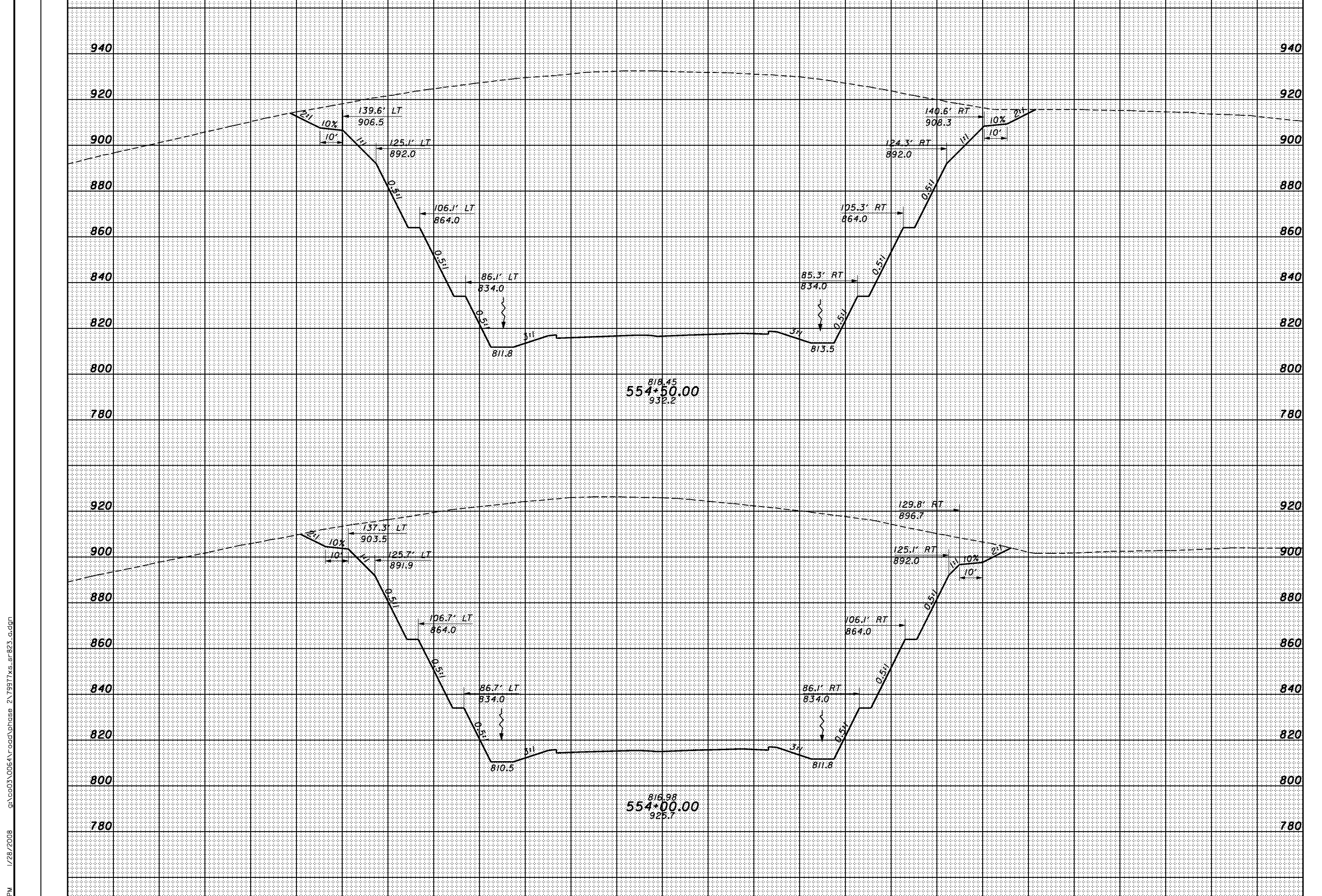
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CROSS SECTIONS
SR823 - STA. 553+00.00 TO STA. 553+50.00

SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



CROSS SECTIONS
SR823 - STA. 554+00.00 TO STA. 554+50.00

SCI-823-10.13

138

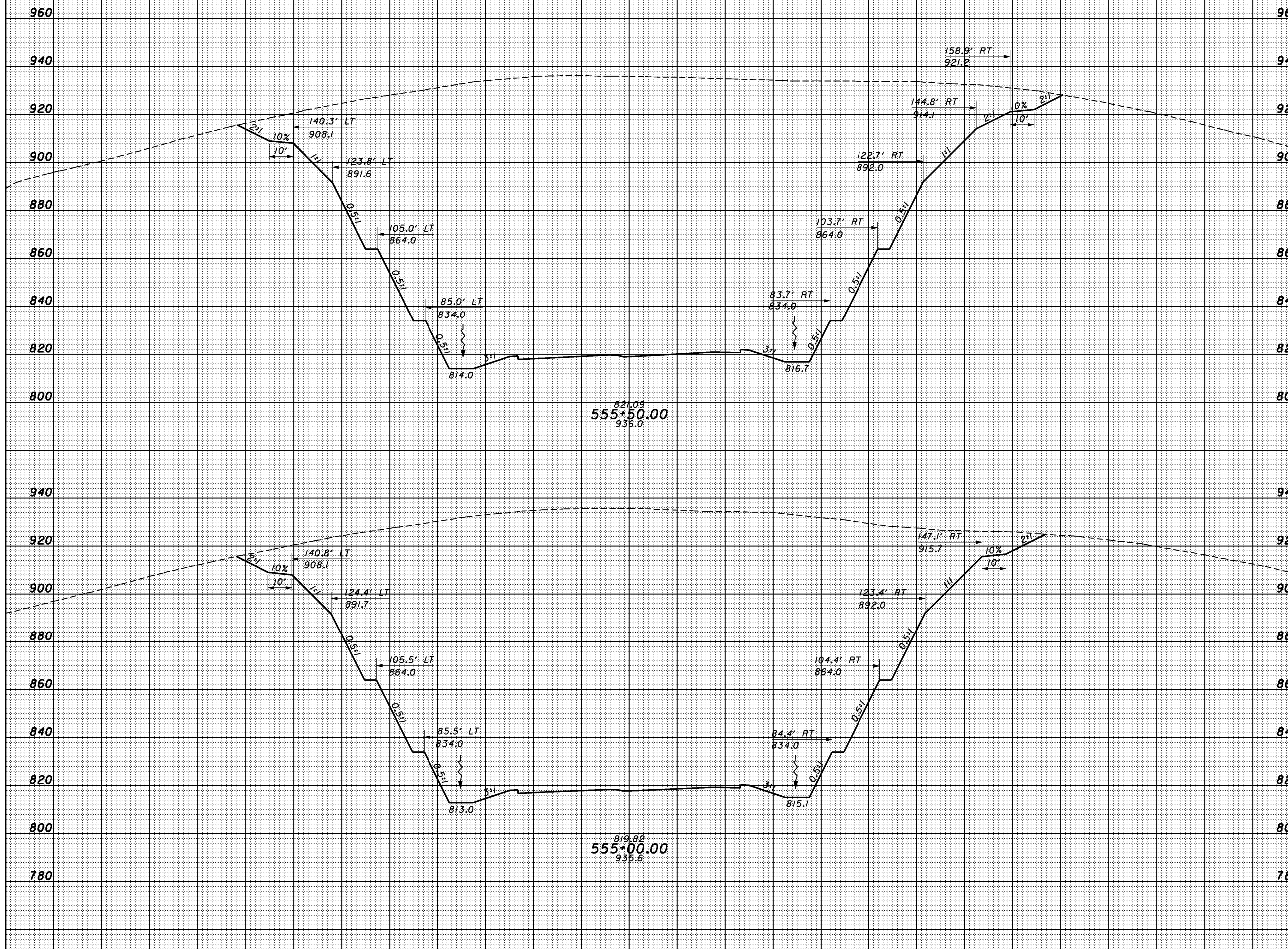
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SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3/4/28 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



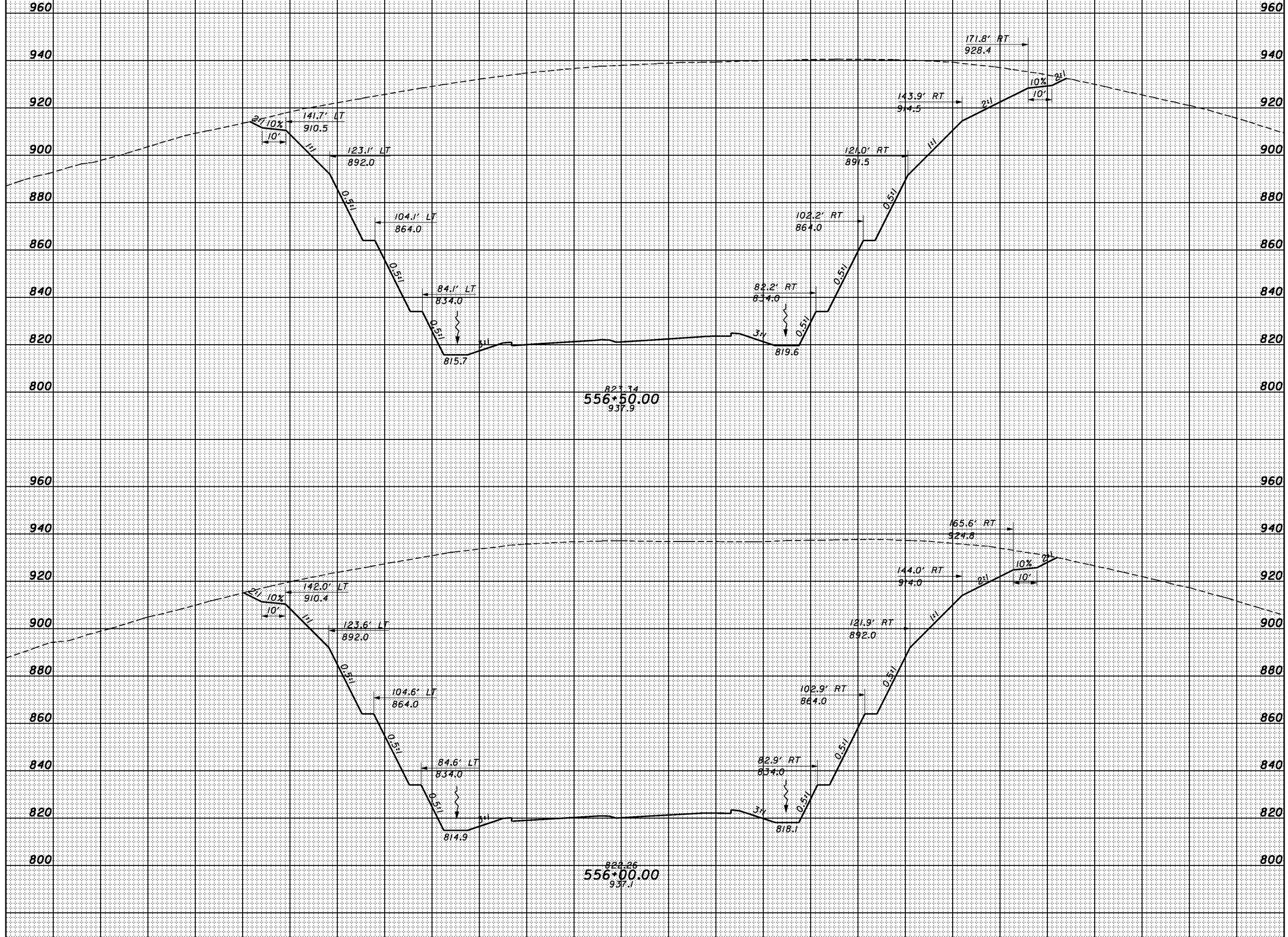
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 555+00.00 TO STA. 555+50.00

SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 556+00.00 TO STA. 556+50.00

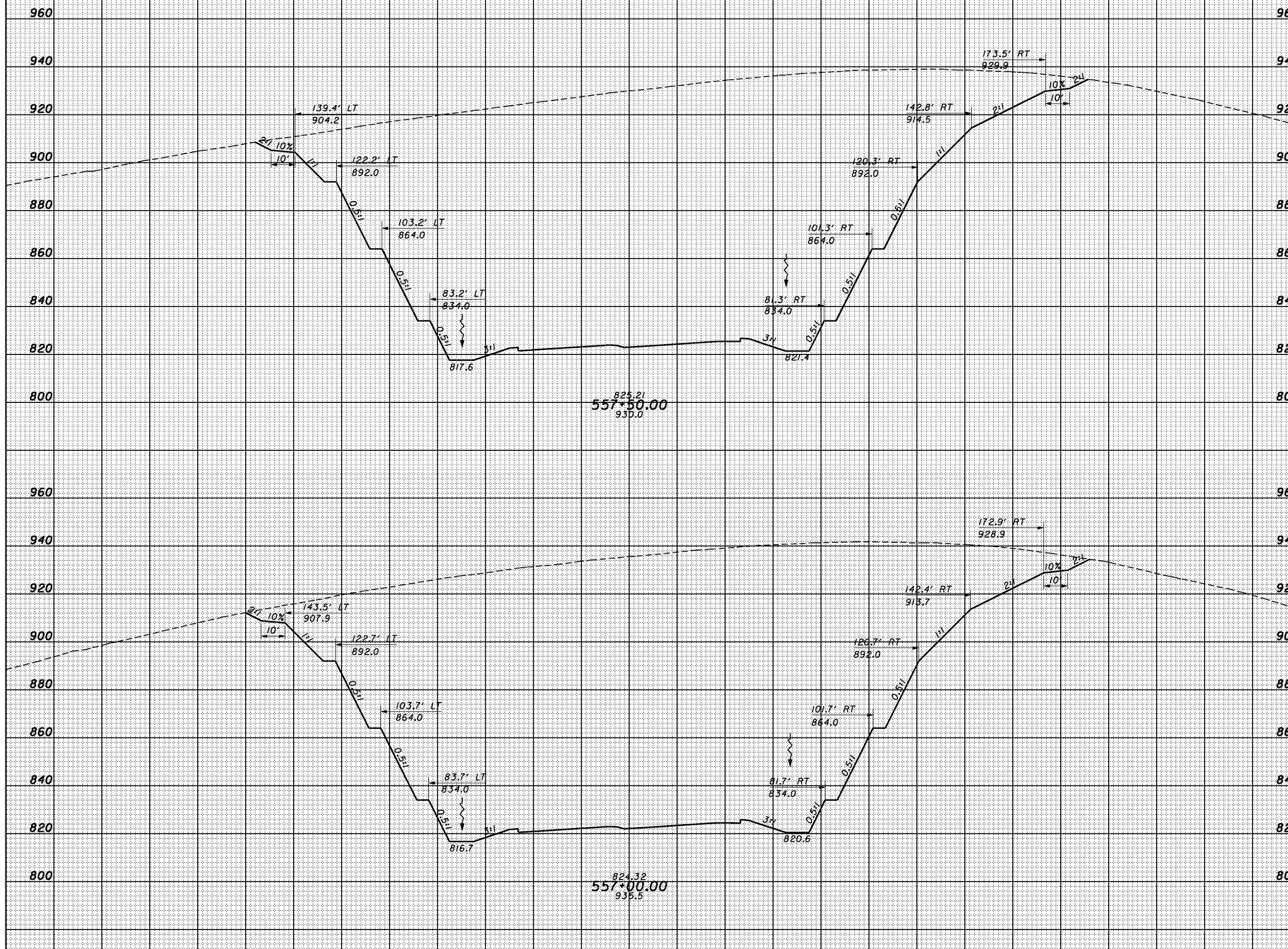
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SEEDING
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END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

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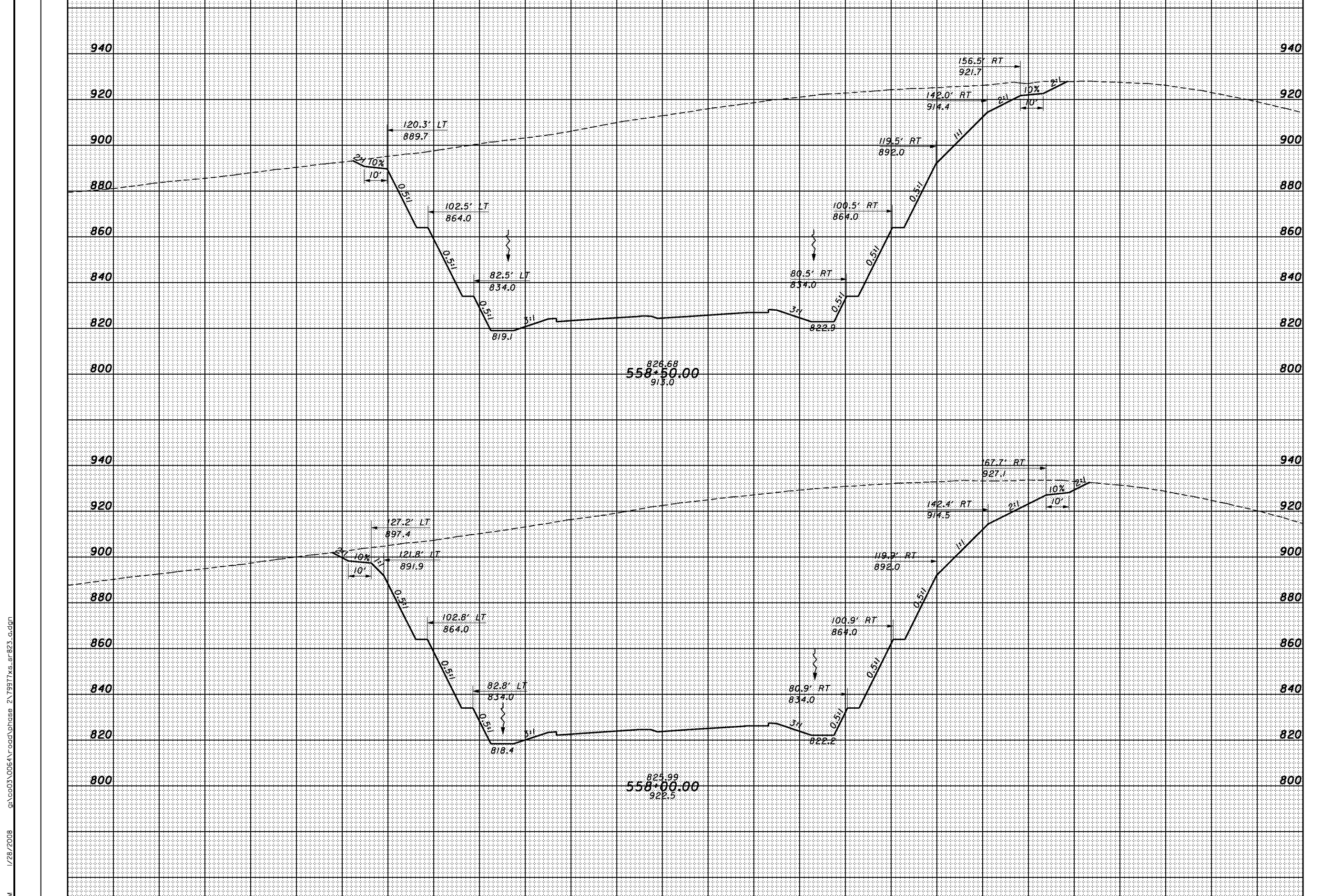
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CROSS SECTIONS
SR823 - STA. 557+00.00 TO STA. 557+50.00

SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 558+00.00 TO STA. 558+50.00

SCI-823-10.13

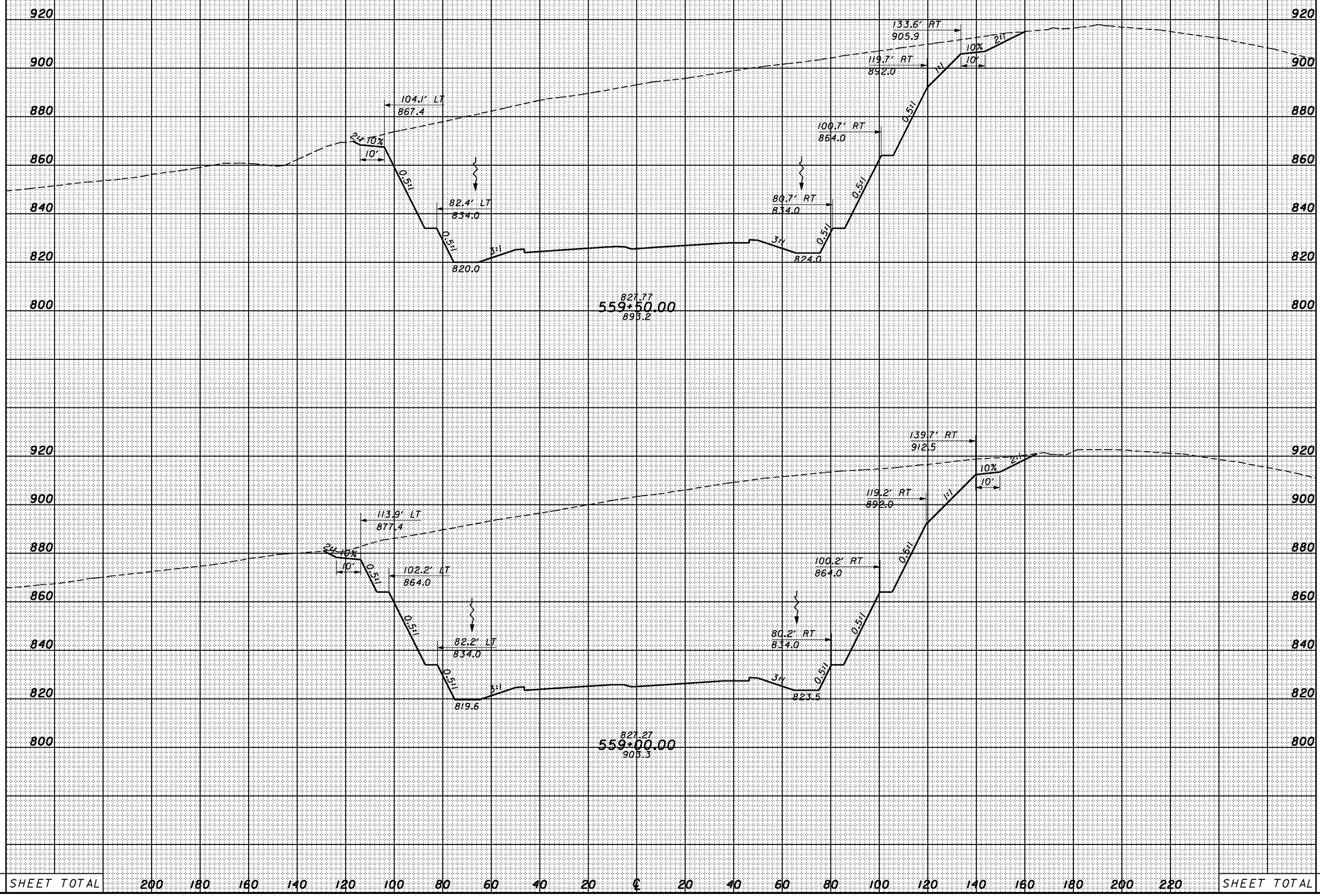
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SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED

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SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 559+00.00 TO STA. 559+50.00

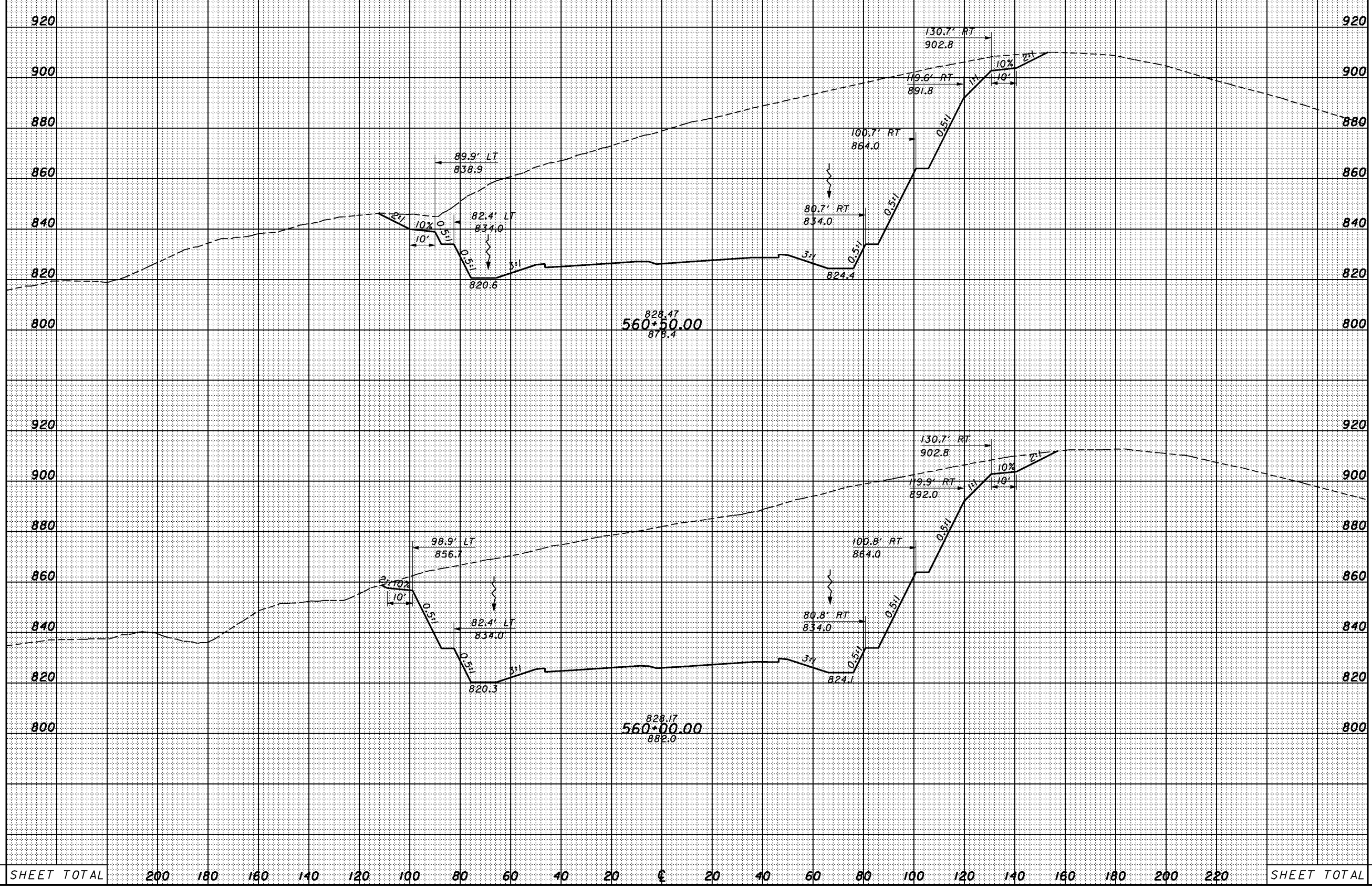
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SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED

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SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 560+00.00 TO STA. 560+50.00

SCI-823-10.13

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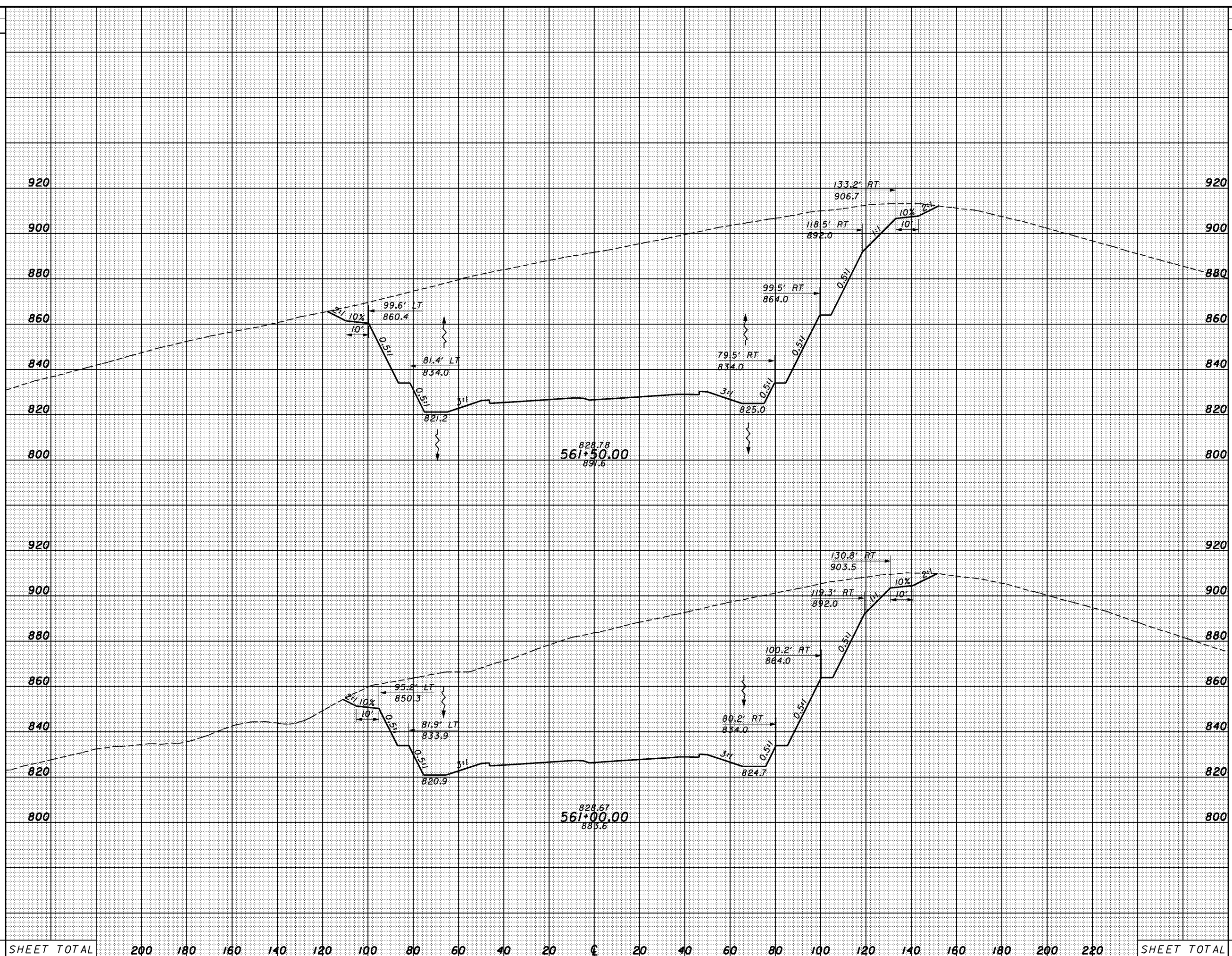
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 561+00.00 TO STA. 561+50.00

SCI-823-10.13

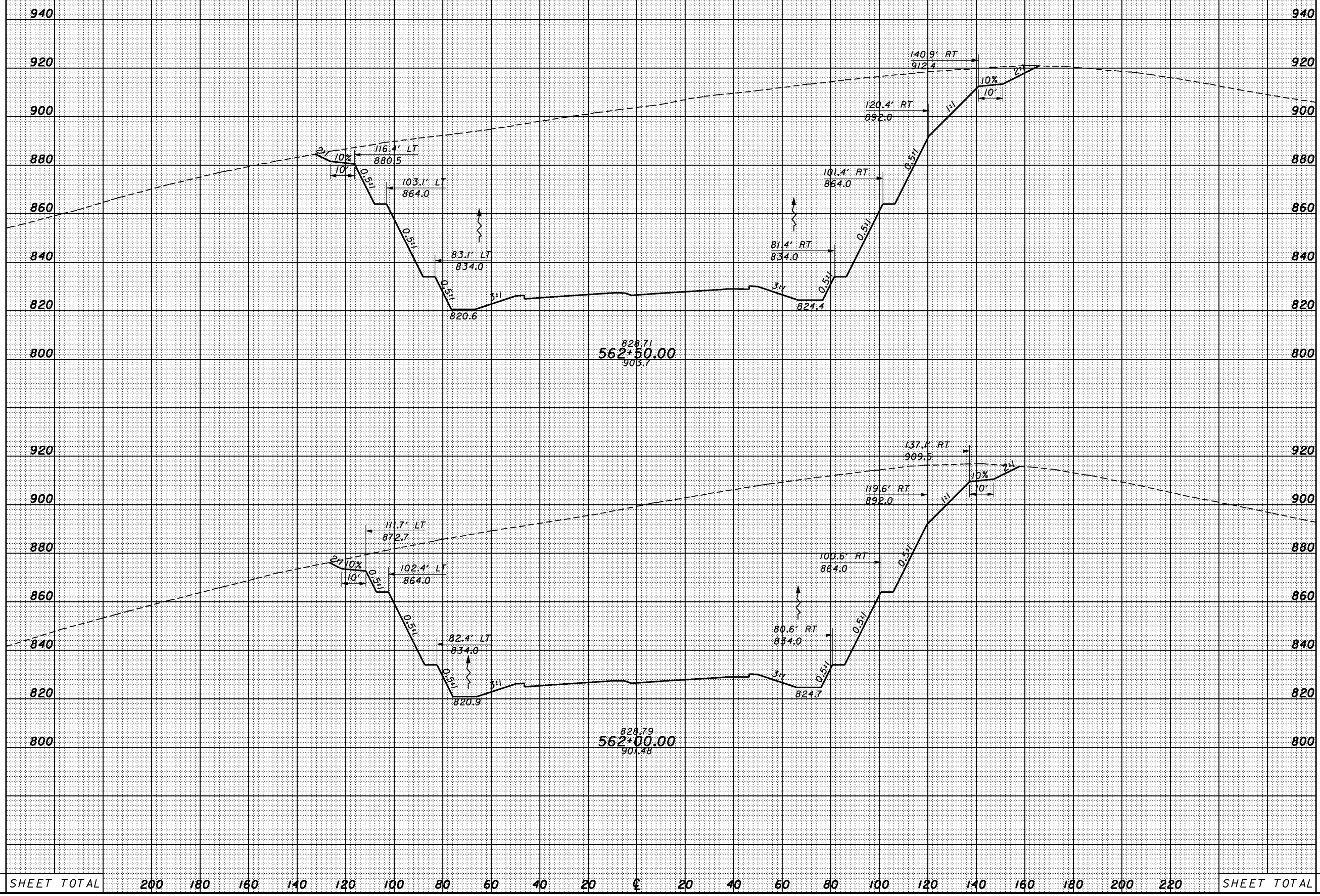


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:44:35 PM 1/28/2008 g:\c003\0064\road\phase 2\79977xs_sr823.dgn



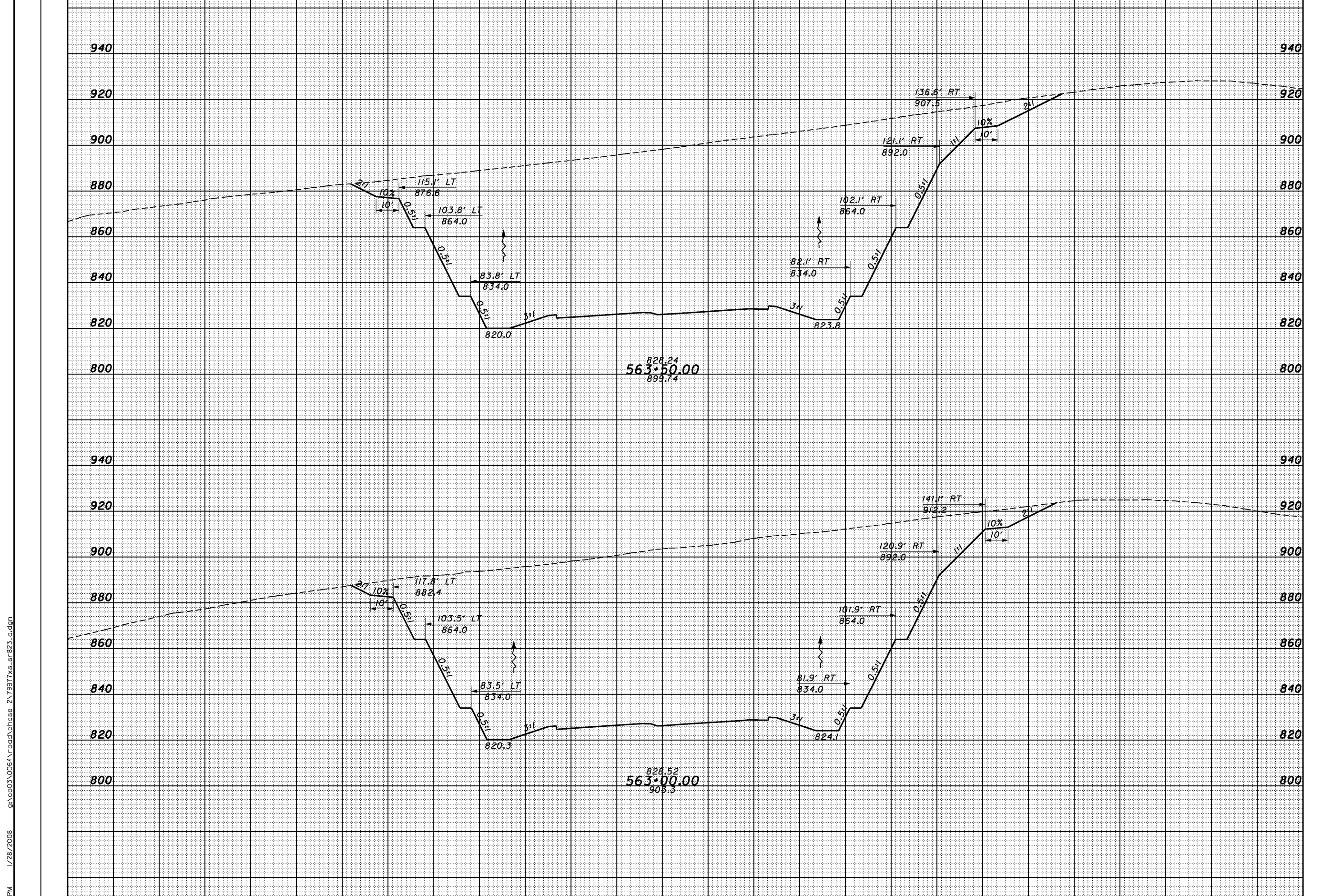
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 562+00.00 TO STA. 562+50.00

SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



828.24
563+50.00
899.74

826.52
563+00.00
905.3

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 563+00.00 TO STA. 563+50.00

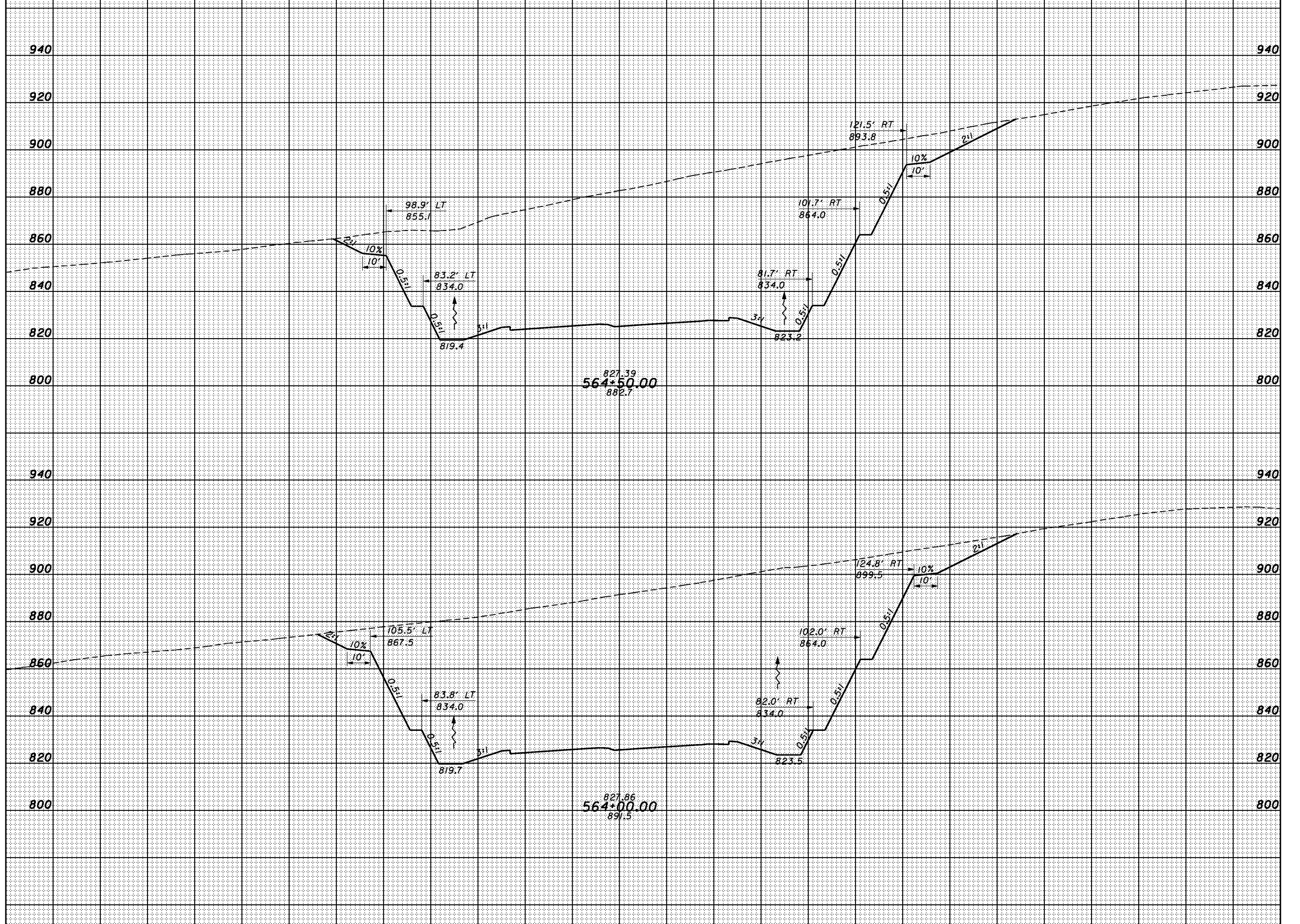
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SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3/4:17 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



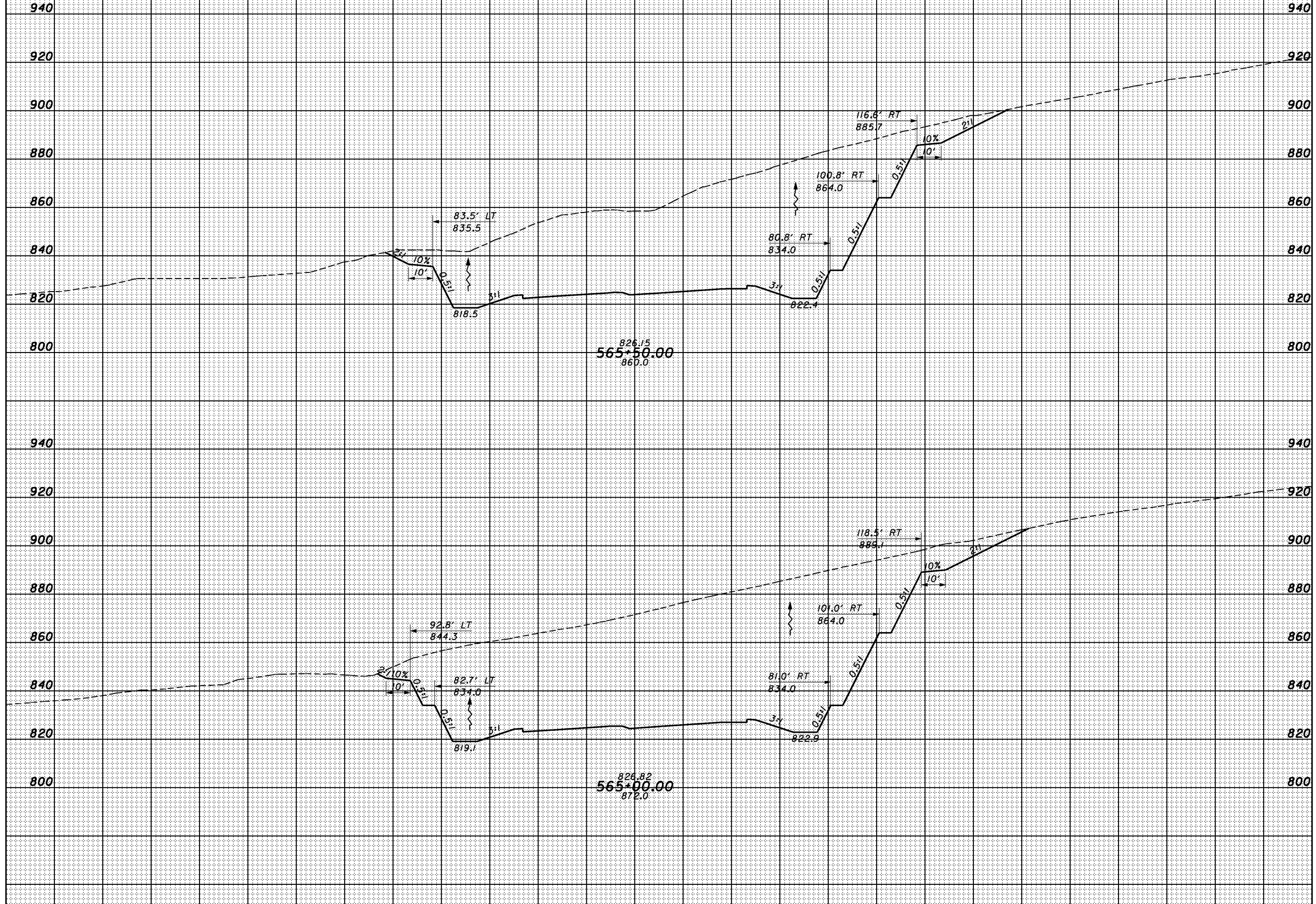
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 564+00.00 TO STA. 564+50.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 565+00.00 TO STA. 565+50.00

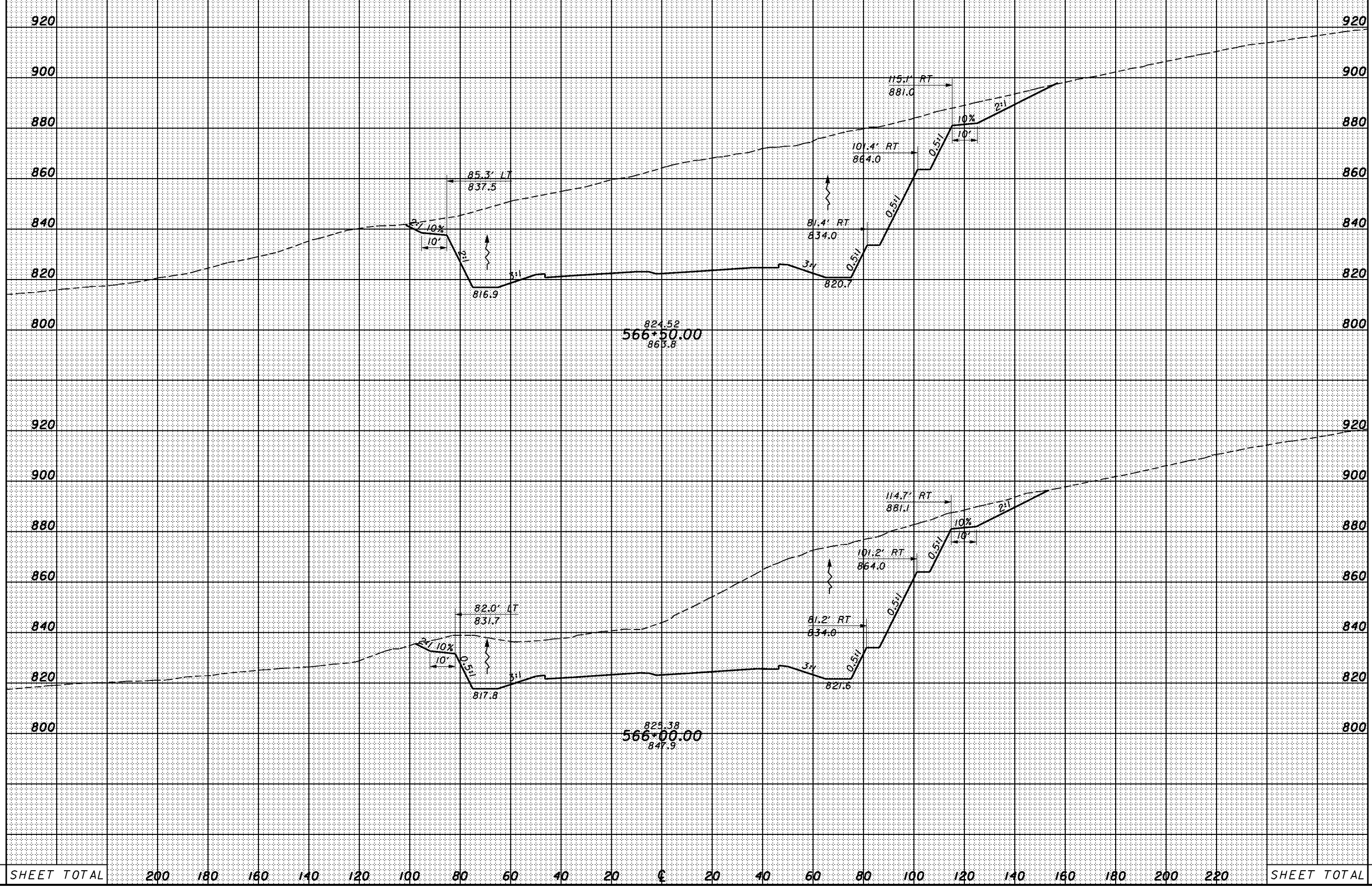
SCI-823-10.13

3/4:39 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

3/4/10 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_sr823.dgn

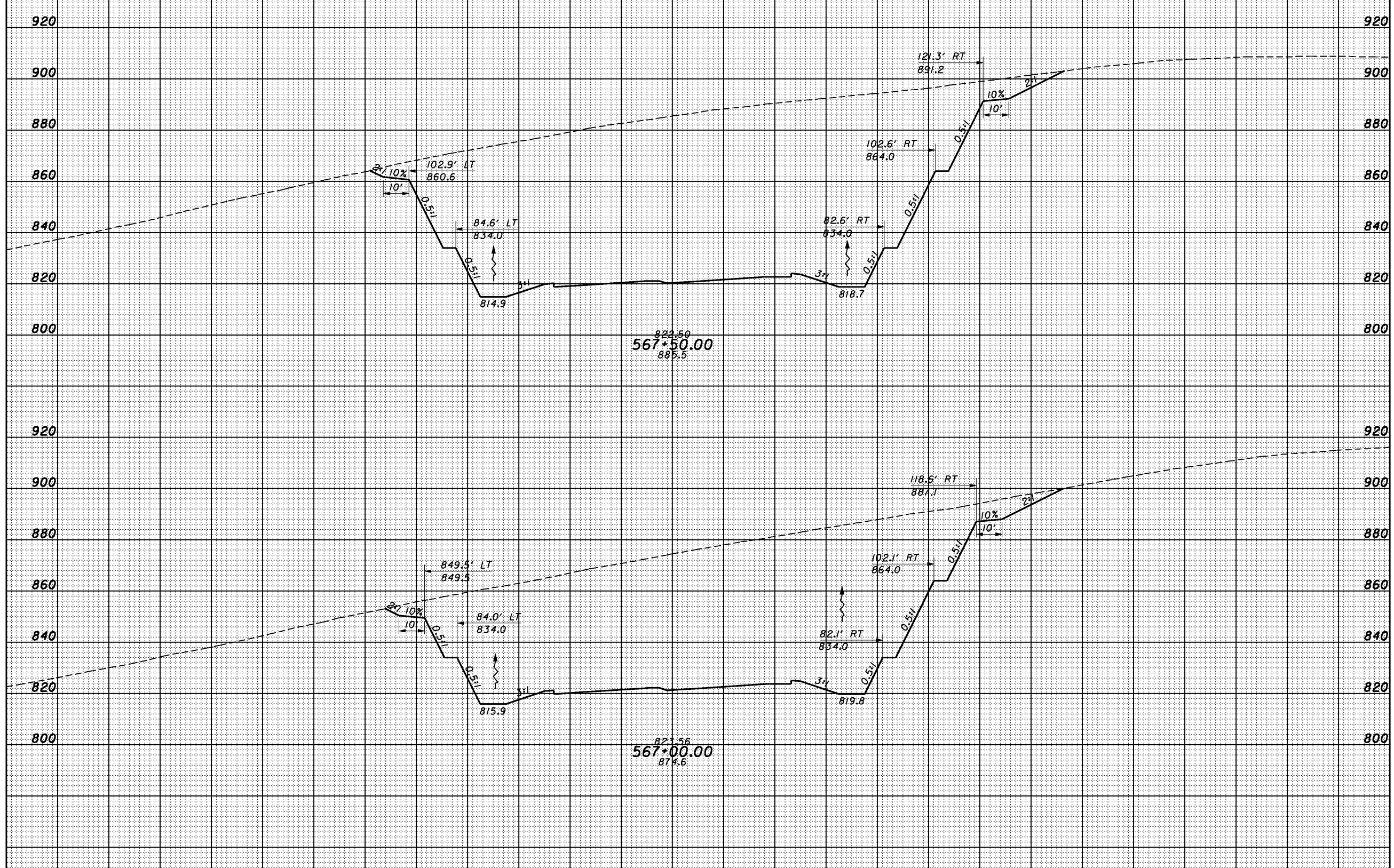


SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
 SR823 - STA. 566+00.00 TO STA. 566+50.00
 SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

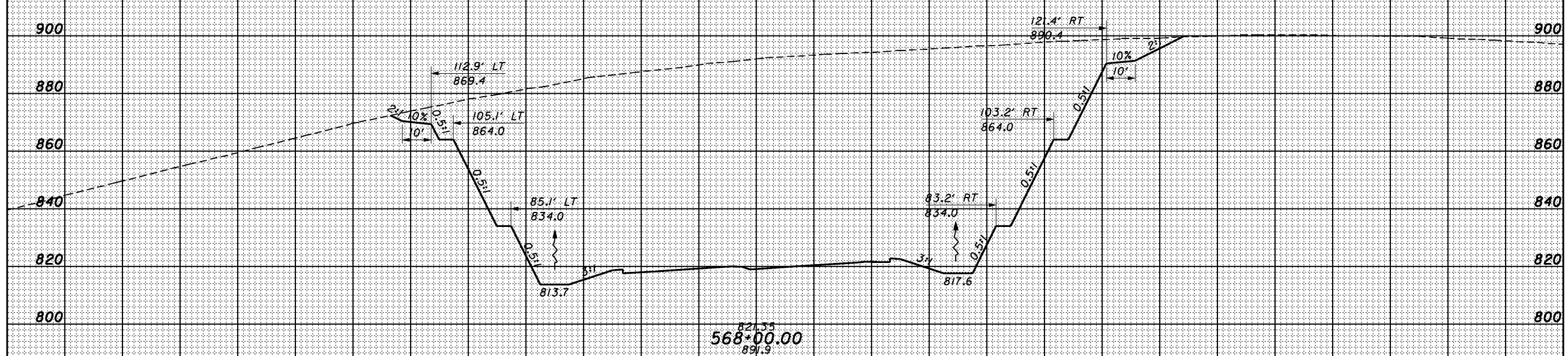
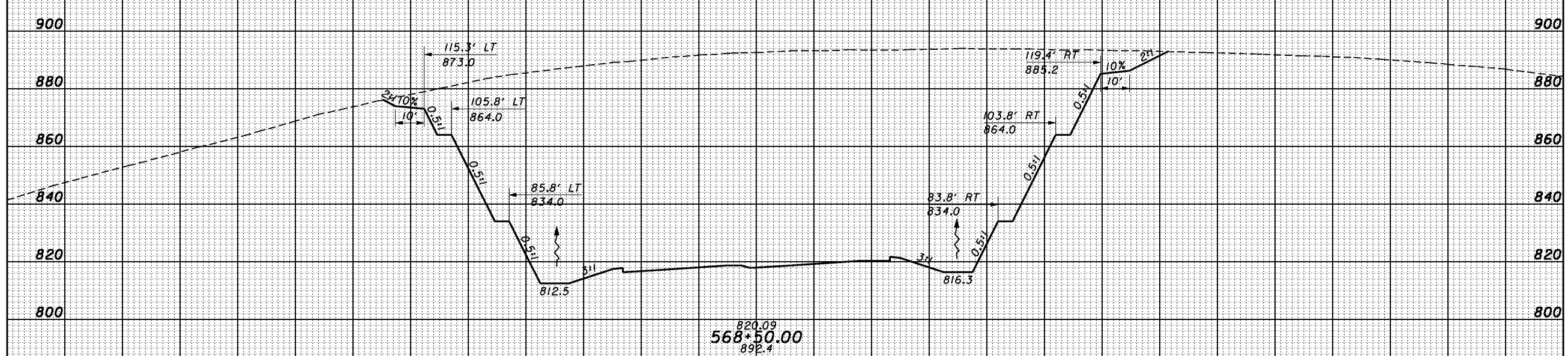
CROSS SECTIONS
 SR823 - STA. 567+00.00 TO STA. 567+50.00

SCI-823-10.13

3/4/11 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 CL 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 568+00.00 TO STA. 568+50.00

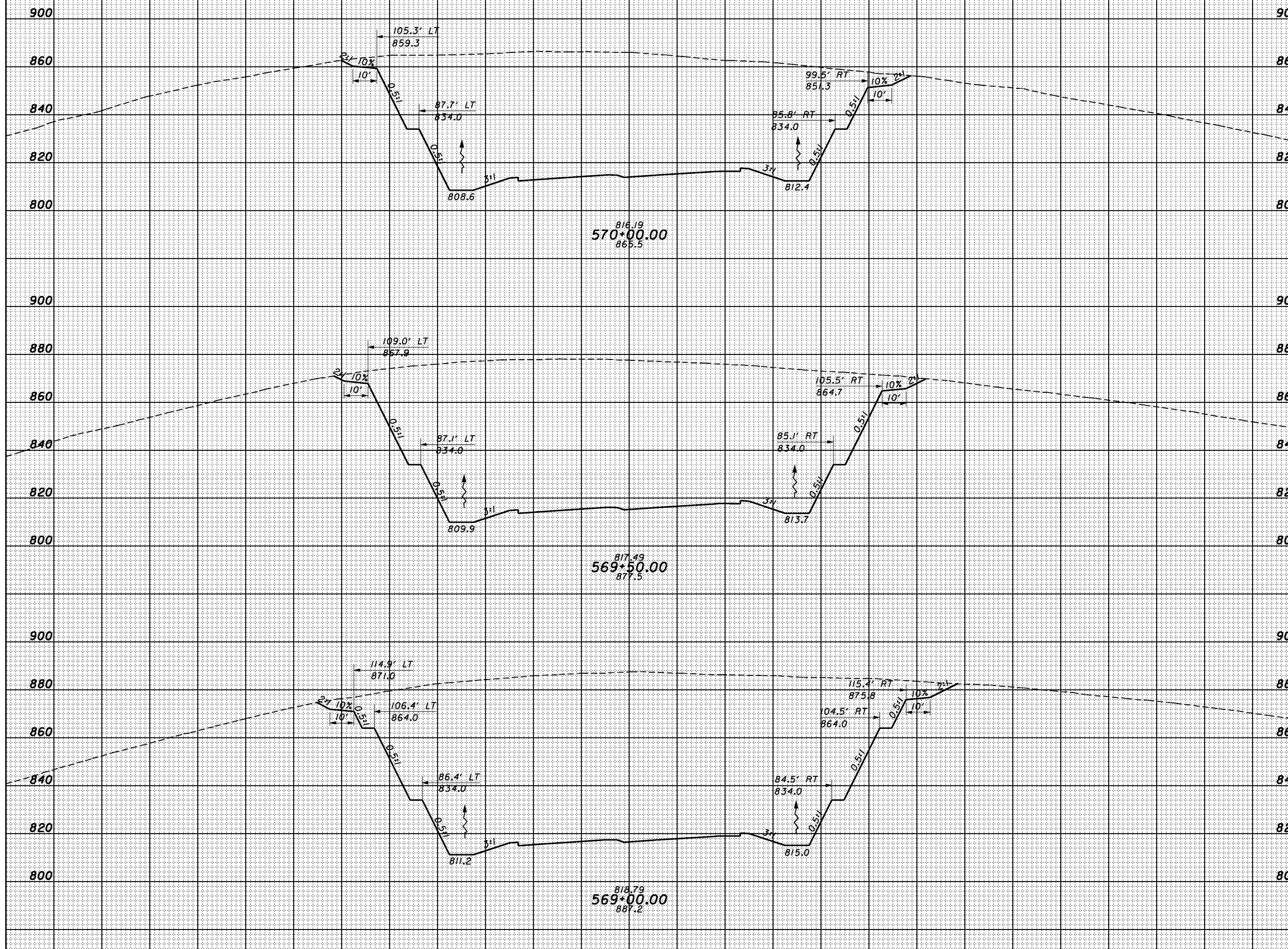
SCI-823-10.13

3/4/12 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:44:43 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 569+00.00 TO STA. 570+00.00

SCI-823-10.13

3/4/14 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

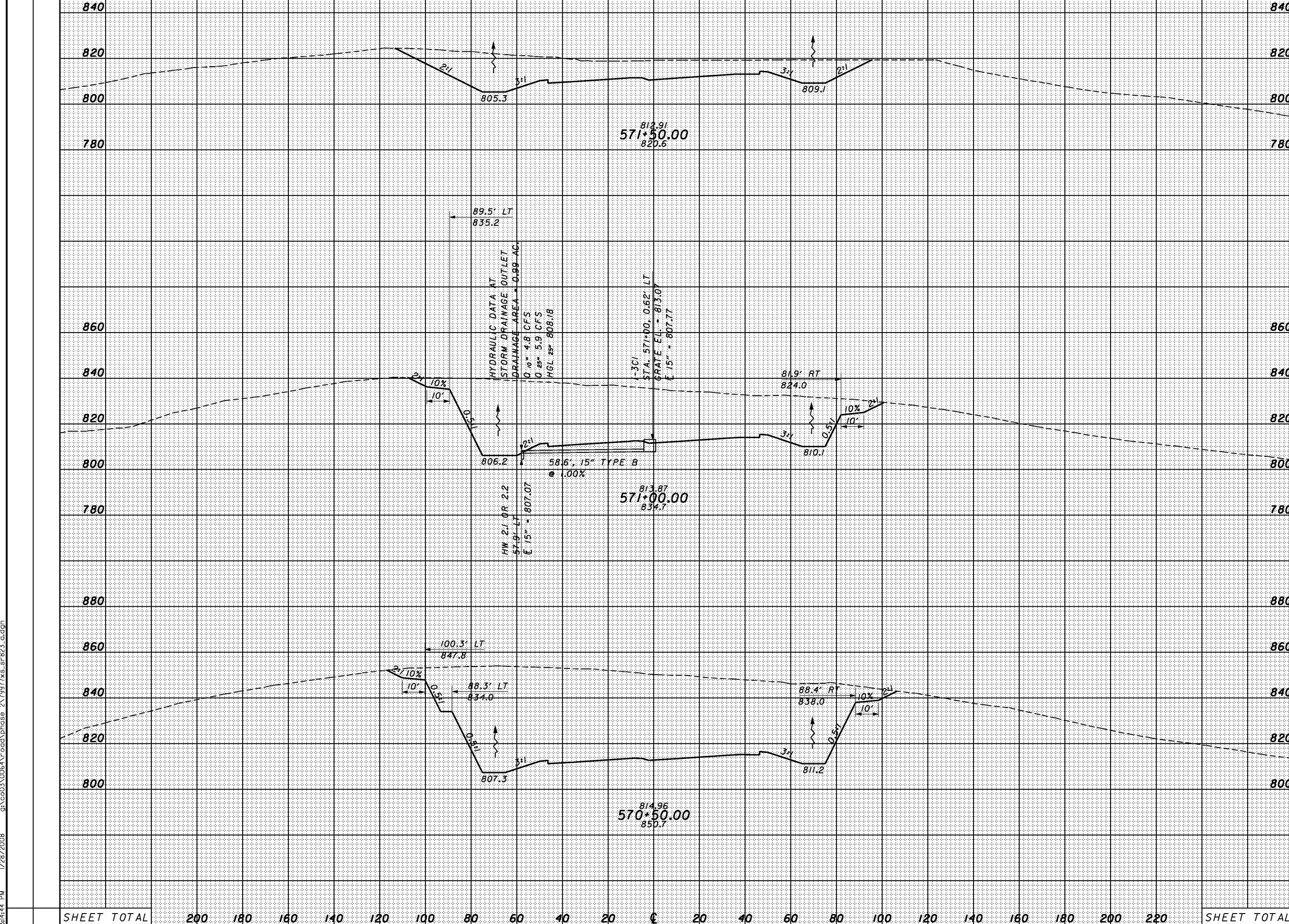
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED

CROSS SECTIONS
SR823 - STA. 570+50.00 TO STA. 571+50.00

SCI-823-10.13

154

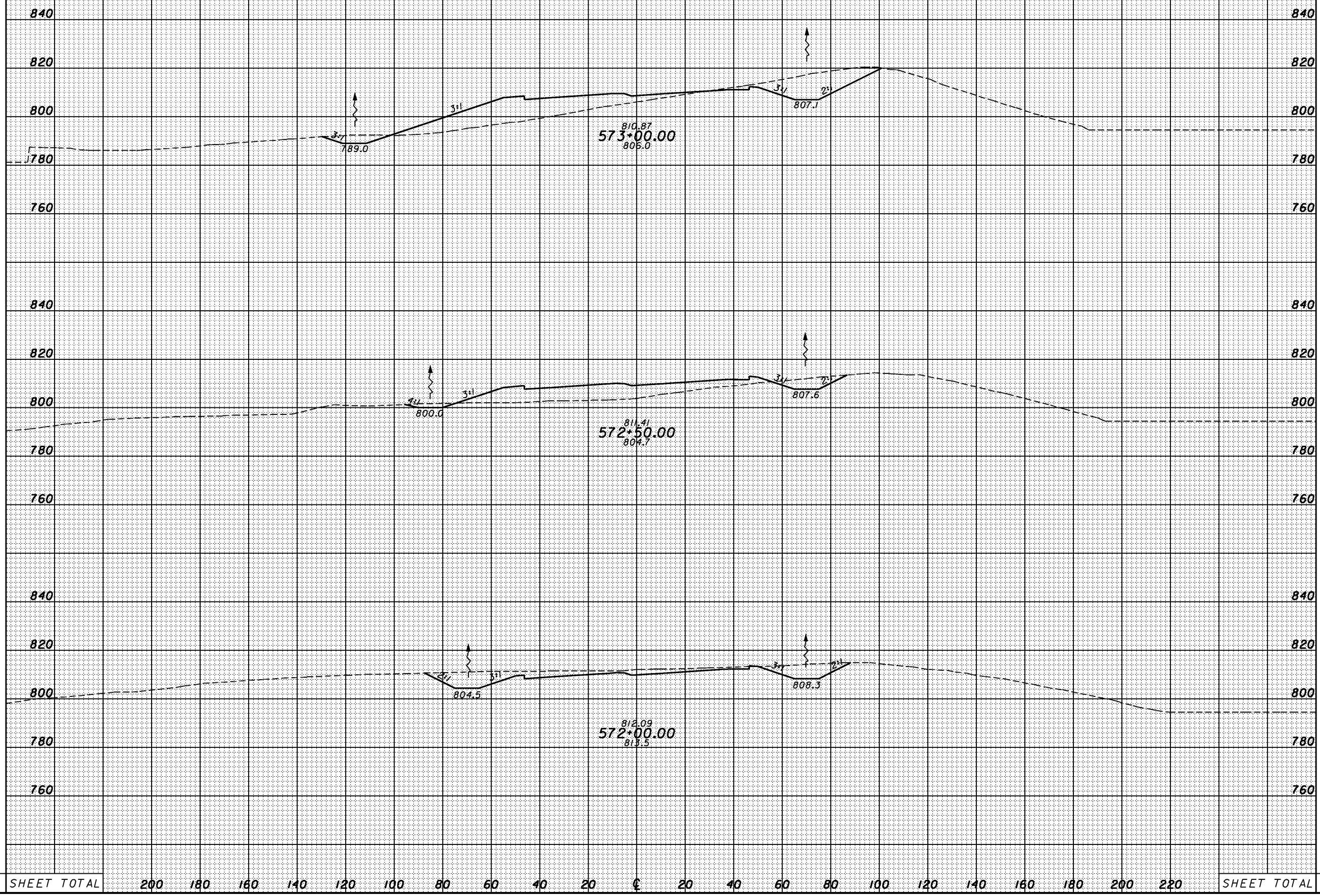


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3/4/45 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



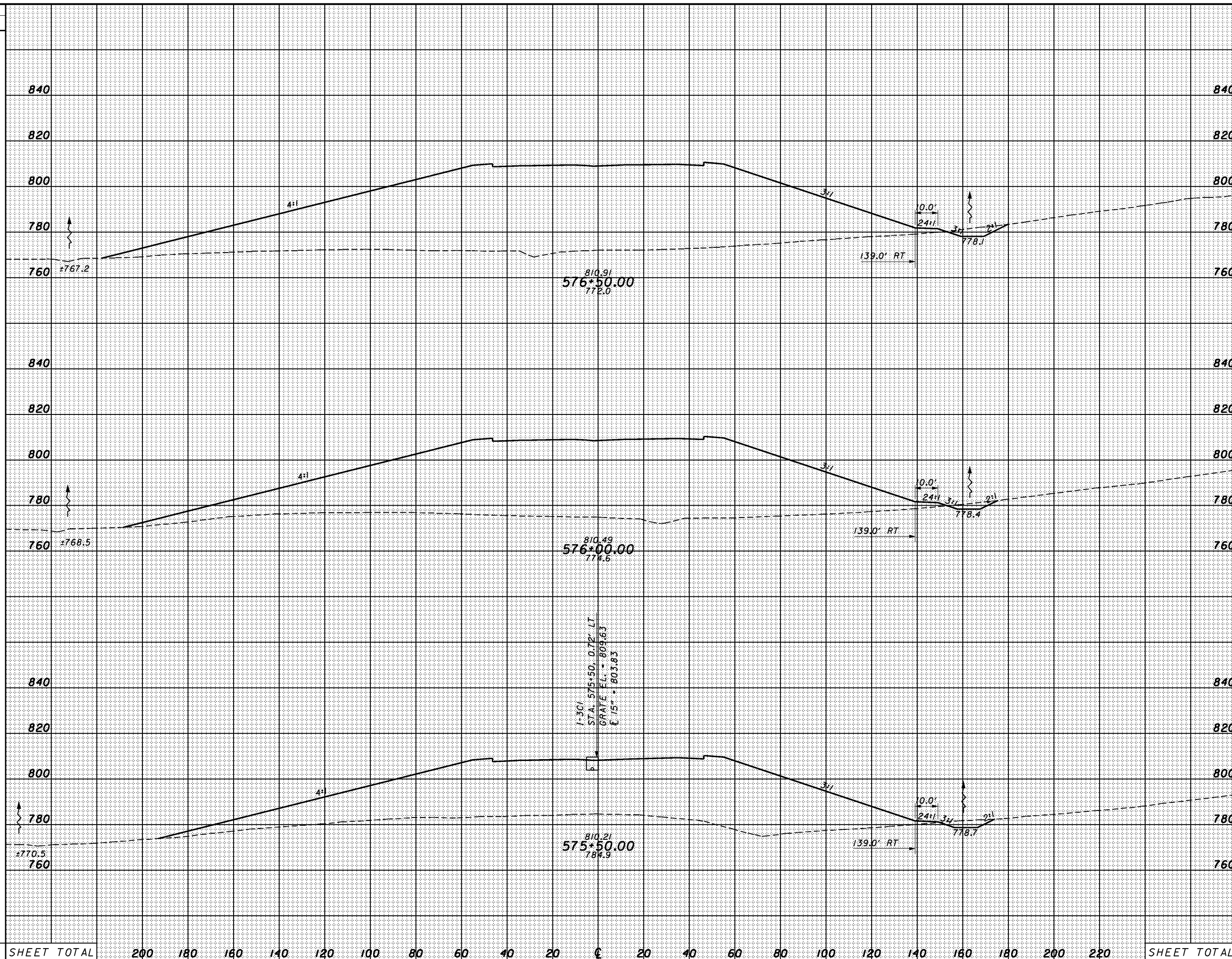
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
 SR823 - STA. 572+00.00 TO STA. 573+00.00
 SCI-823-10.13

3/4/47 PM 1/28/2008 g:\co03\0064\road\phase 2\79917xs_sr823.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

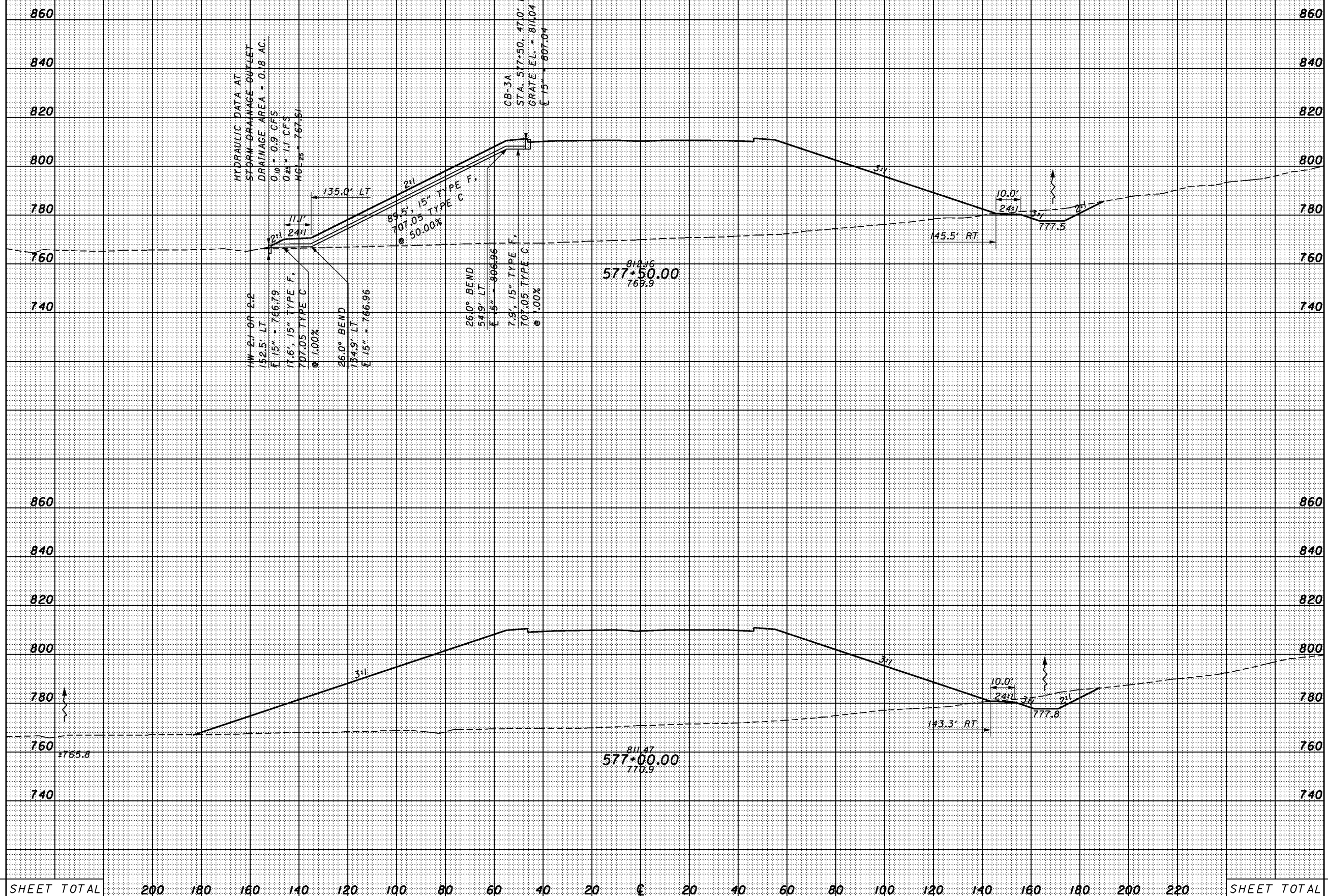
CROSS SECTIONS
SR823 - STA. 575+50.00 TO STA. 576+50.00

SCI-823-10.13

3/4/08 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

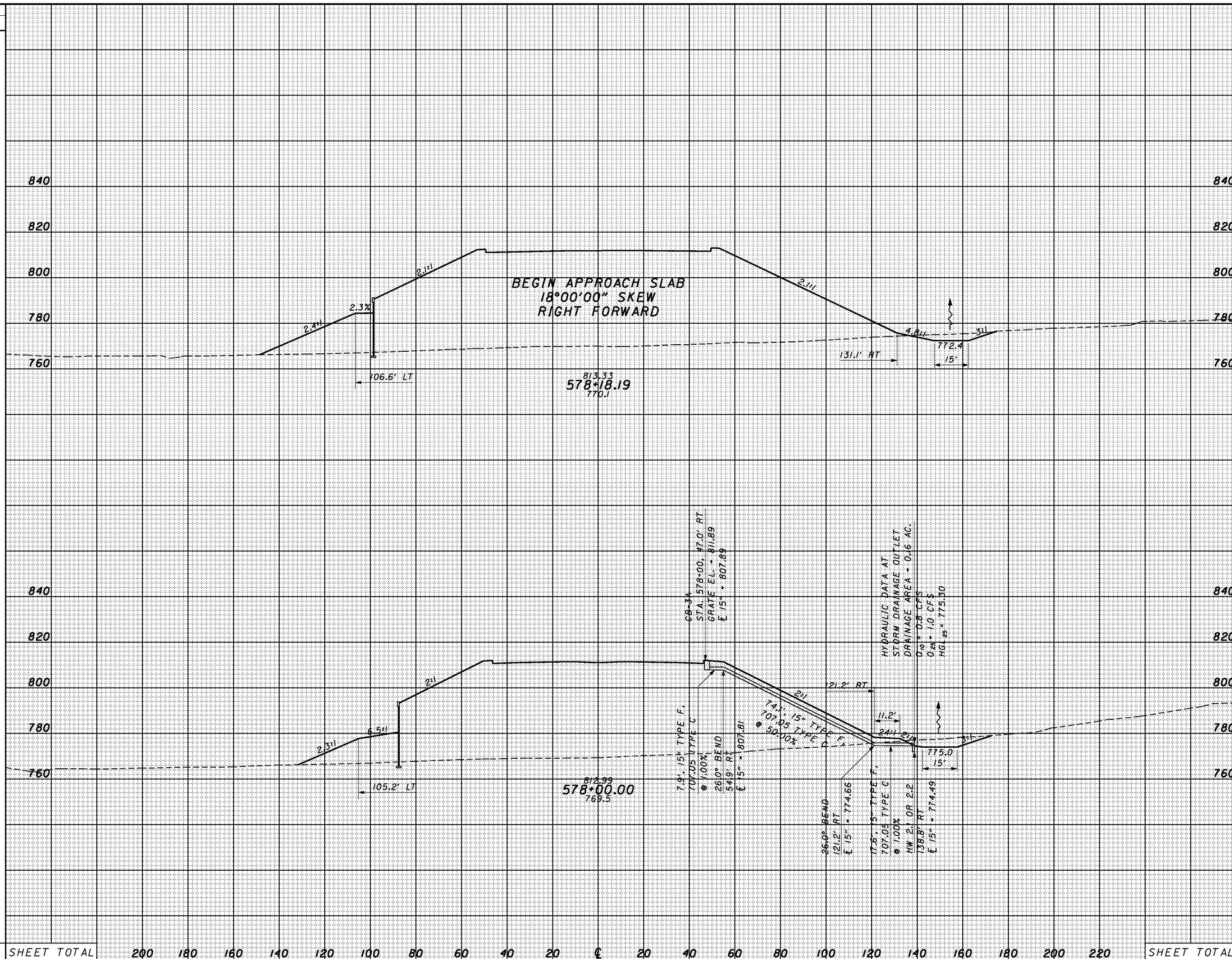
CROSS SECTIONS
SR823 - STA. 577+00.00 TO STA. 577+50.00

SCI-823-10.13

3/4/50 PM 1/28/2008 g:\co03\0064\road\phase 2\79917xs_sr823.dgn

SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

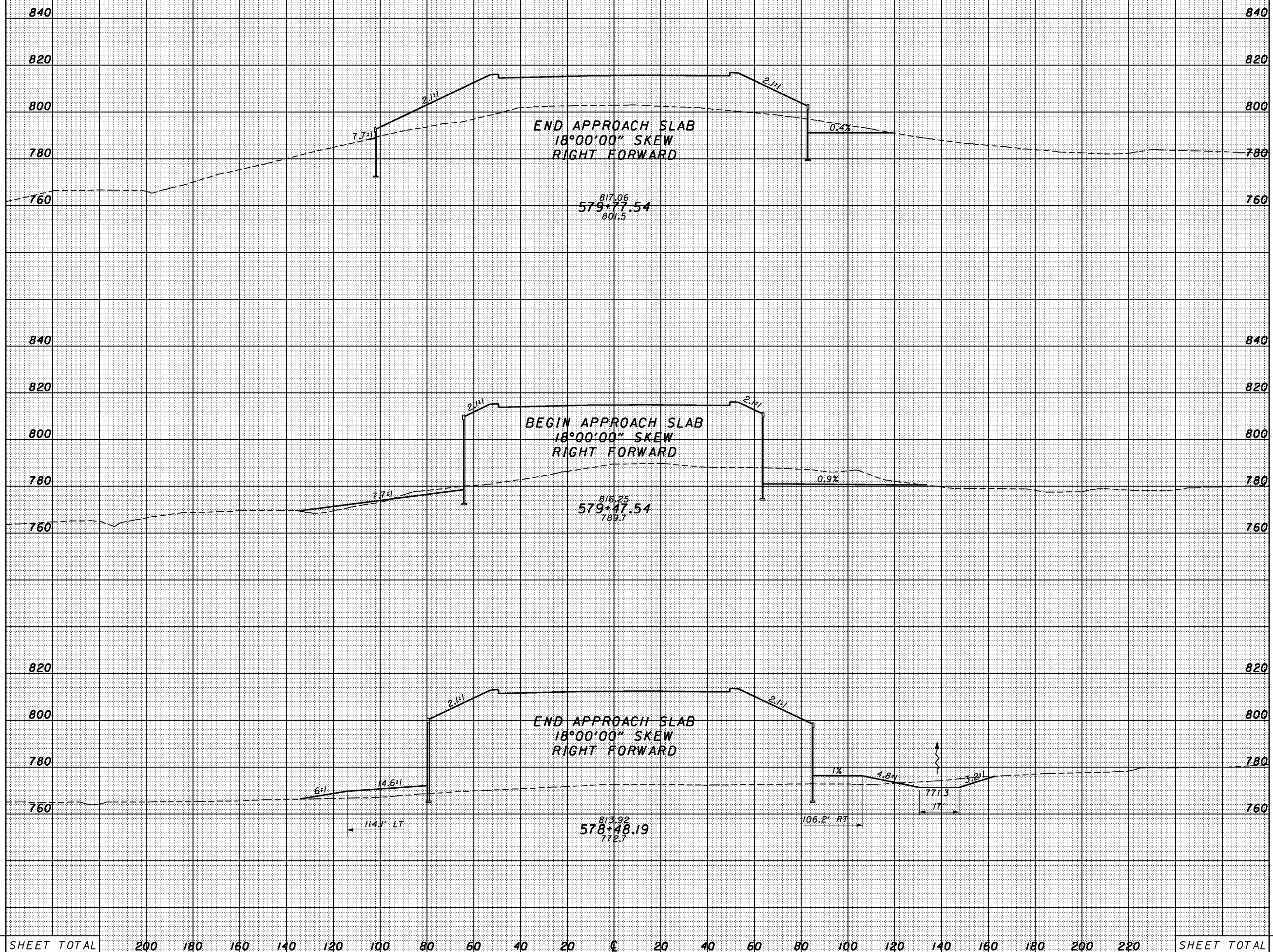
CROSS SECTIONS
SR823 - STA. 578+00.00 TO STA. 578+18.19

SCI-823-10.13

3/4/5/1 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	C	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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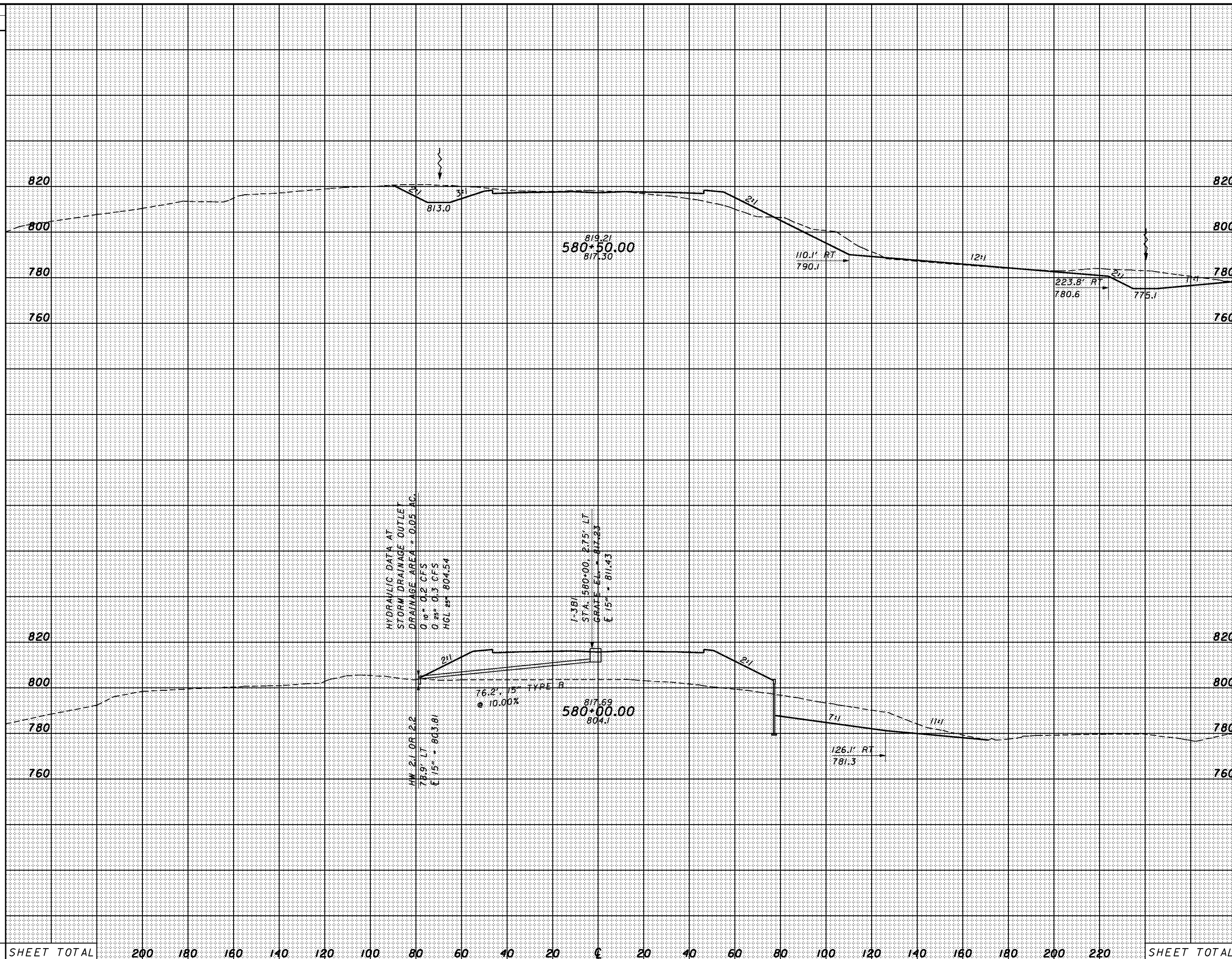
CROSS SECTIONS
SR823 - STA. 578+48.19 TO STA. 579+77.54

SCI-823-10.13

3:44:53 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

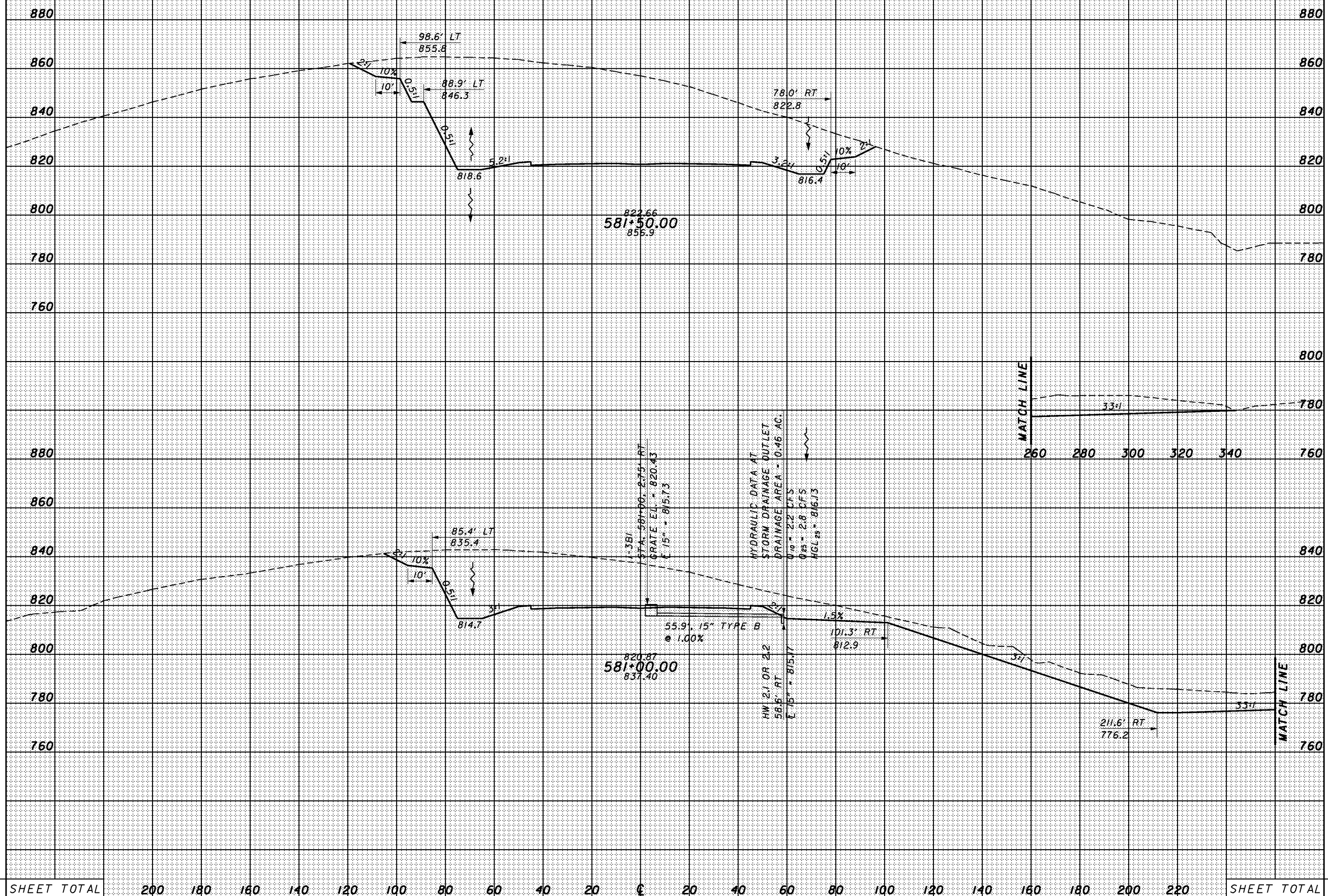
CROSS SECTIONS
SR823 - STA. 580+00.00 TO STA. 580+50.00

SCI-823-10.13

3/4/54 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 581+00.00 TO STA. 581+50.00

SCI-823-10.13

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SEEDING	
END WIDTH	SO. YDS.

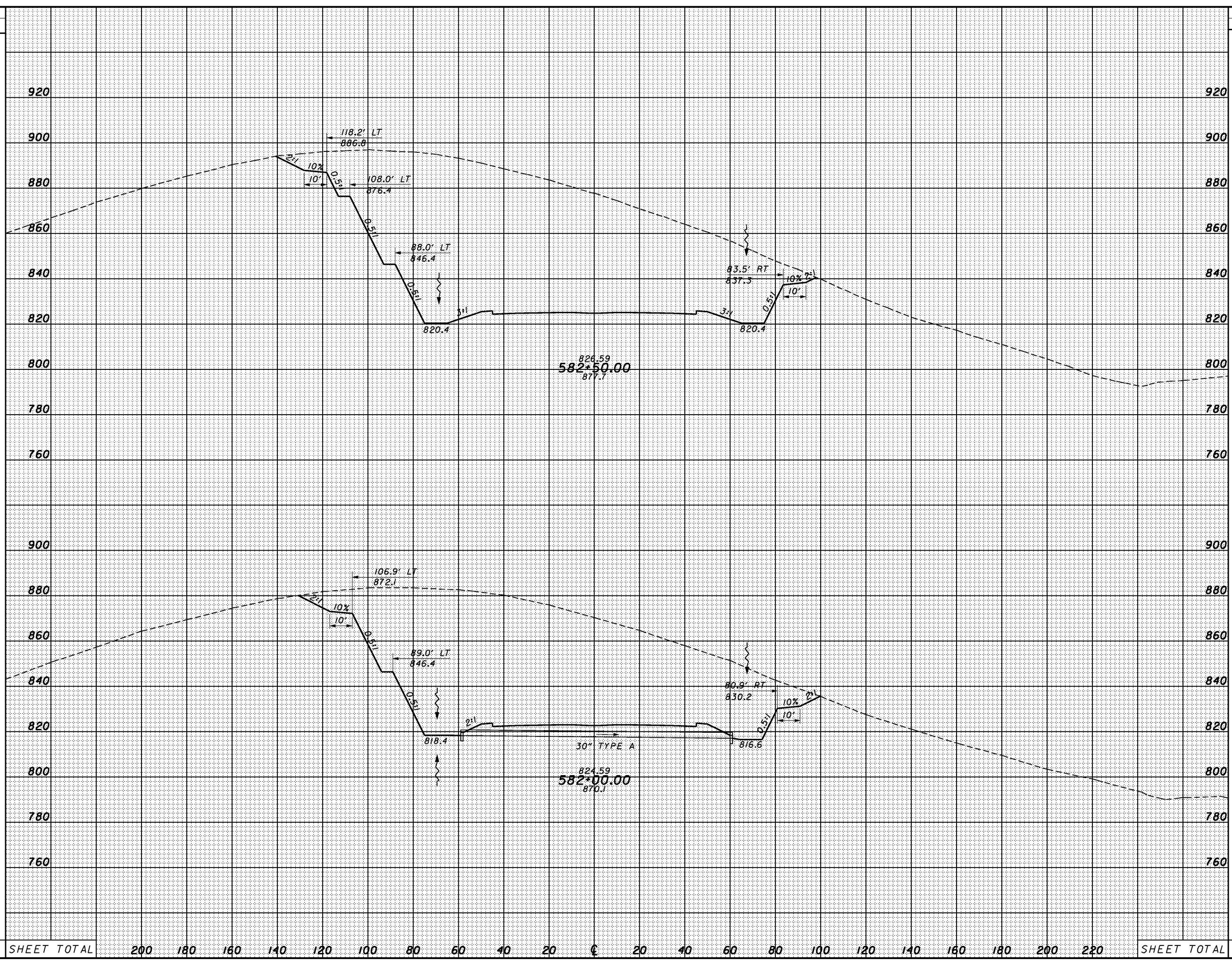
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 582+00.00 TO STA. 582+50.00

SCI-823-10.13

163



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3/4/56 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn

SEEDING	
END WIDTH	SO. YDS.

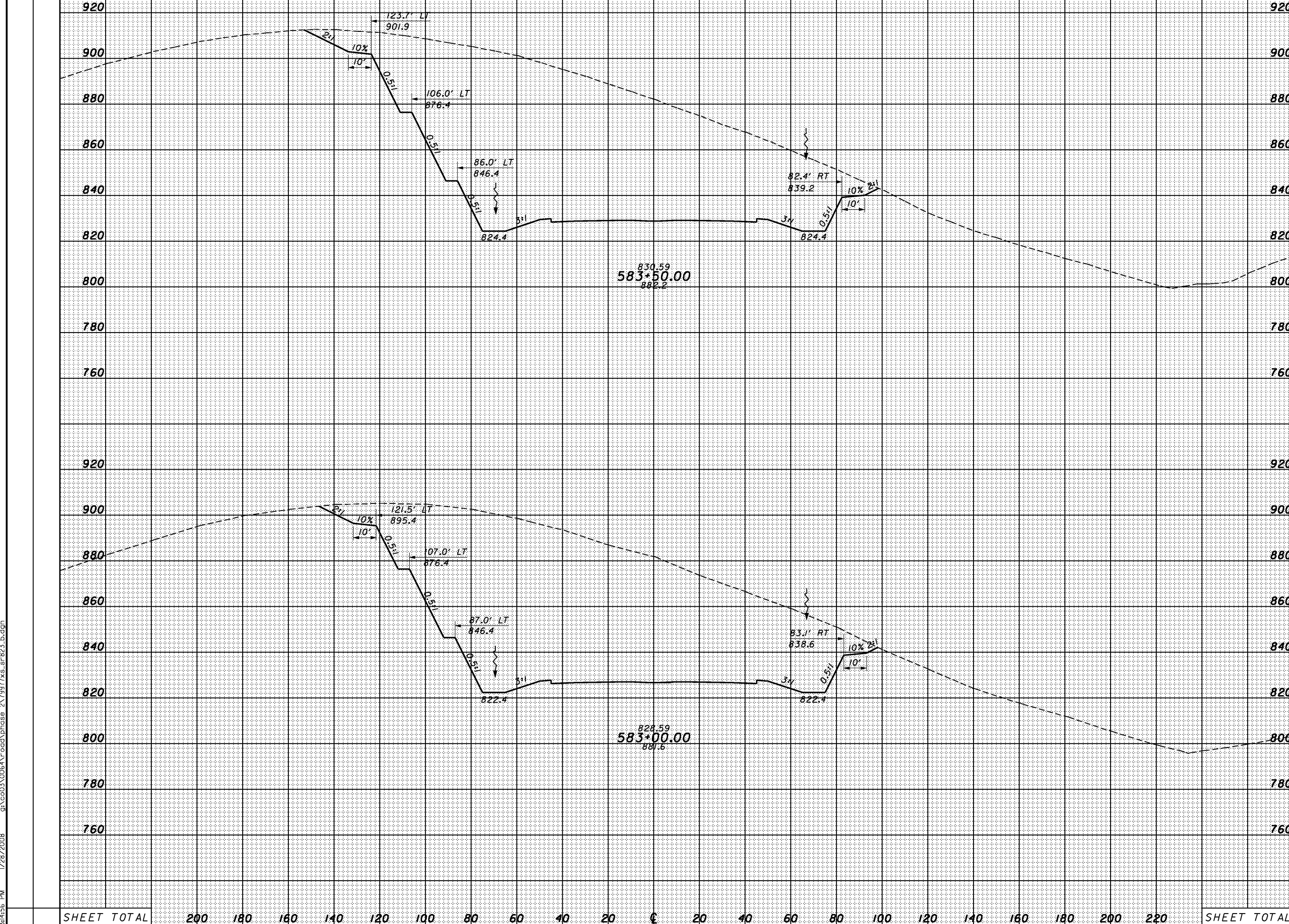
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED

CROSS SECTIONS
SR823 - STA. 583+00.00 TO STA. 583+50.00

SCI-823-10.13

164

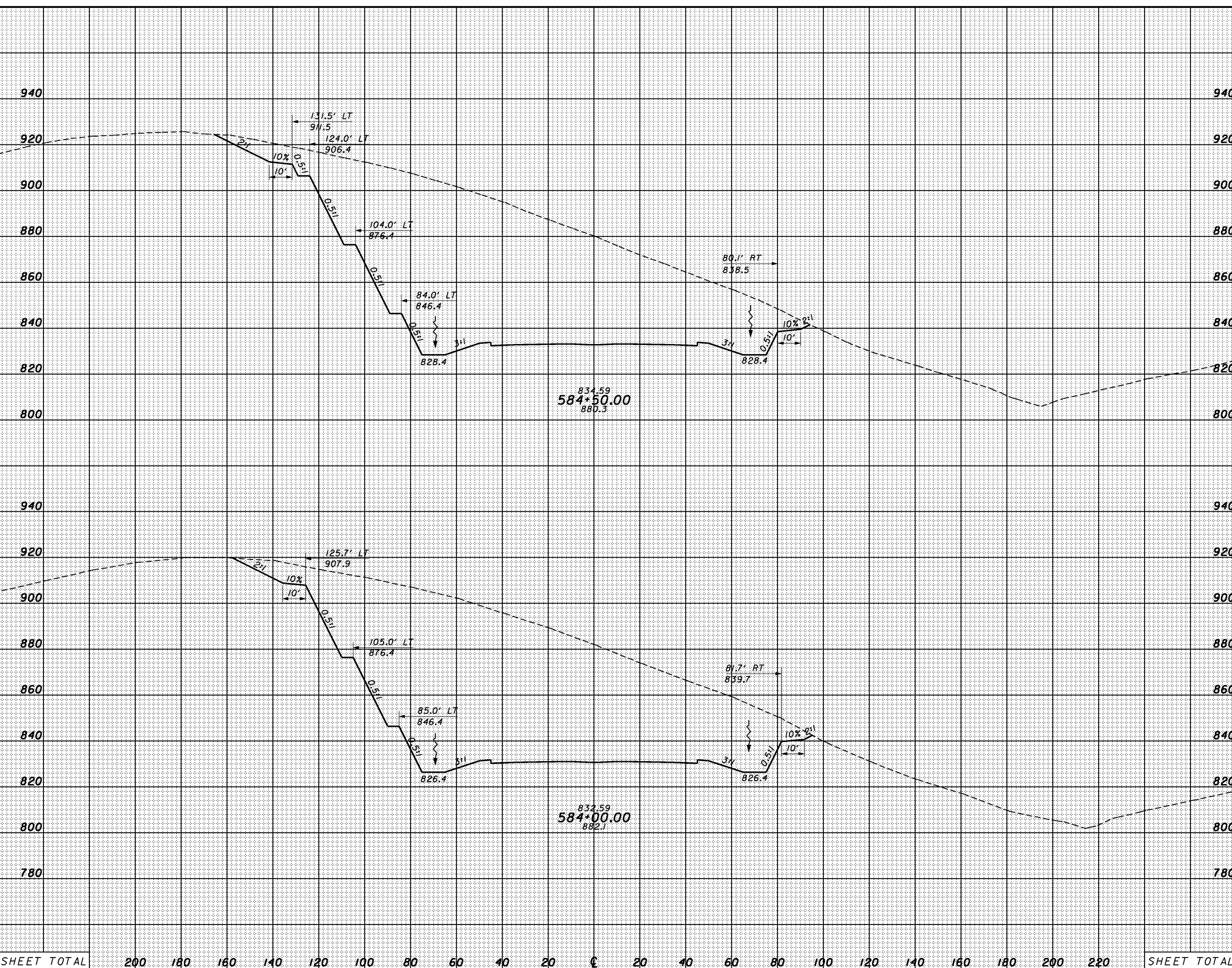


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3/4/57 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



834.59
584+50.00
880.3

832.59
584+00.00
882.1

SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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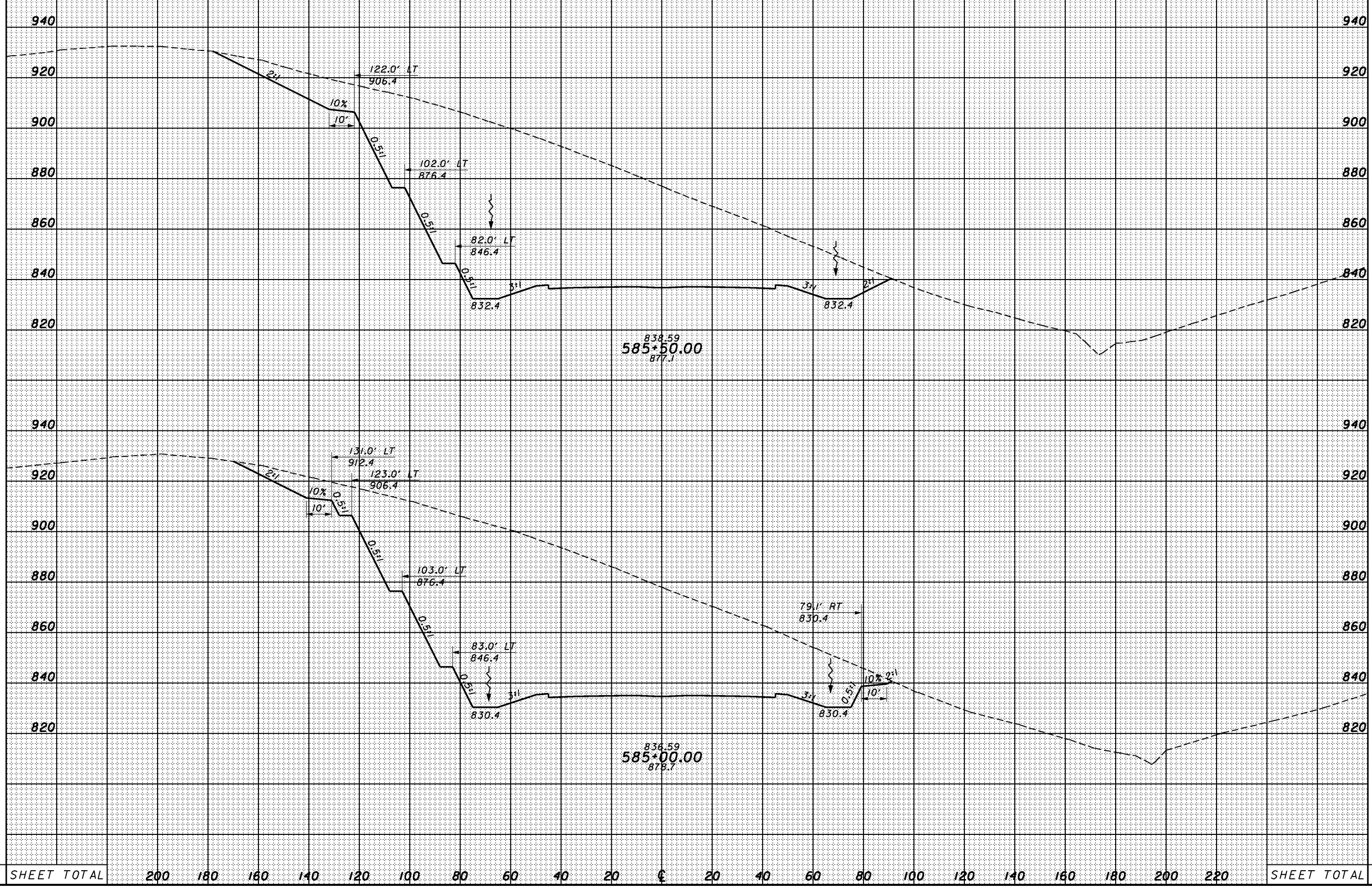
CROSS SECTIONS
SR823 - STA. 584+00.00 TO STA. 584+50.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

3:44:58 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn



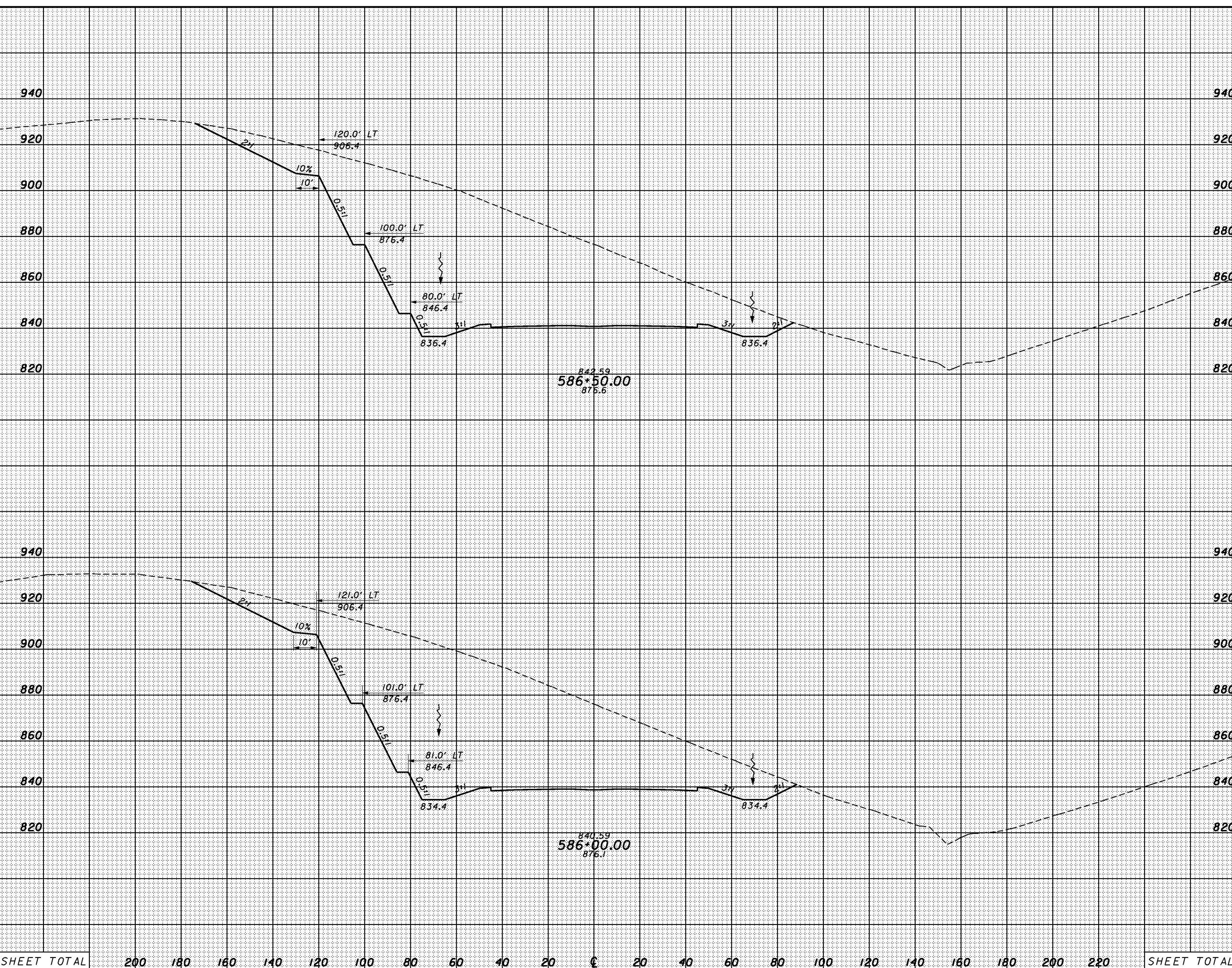
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
 SR823 - STA. 585+00.00 TO STA. 585+50.00
 SCI-823-10.13

3/4/59 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	±	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 586+00.00 TO STA. 586+50.00

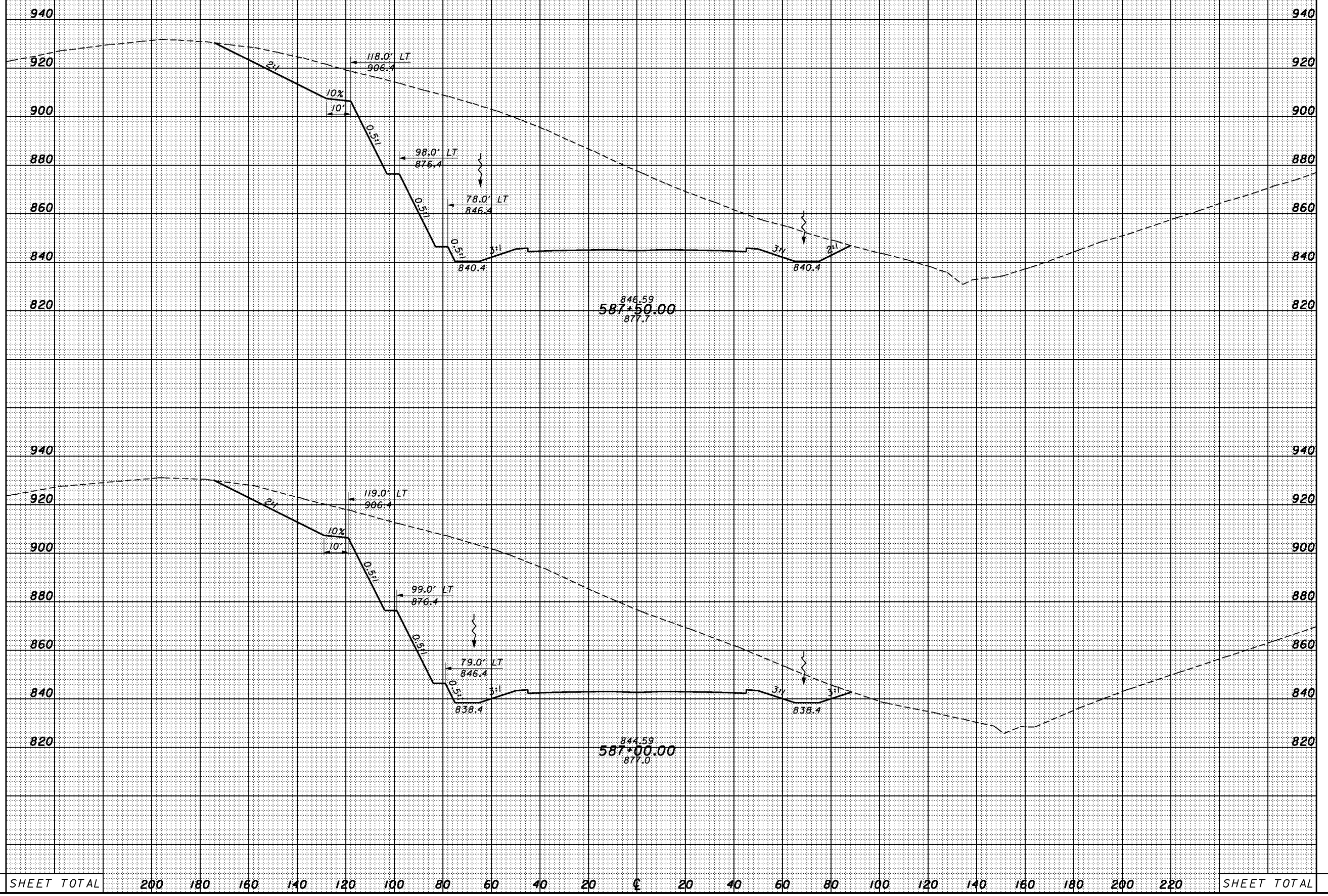
SCI-823-10.13

3:50:00 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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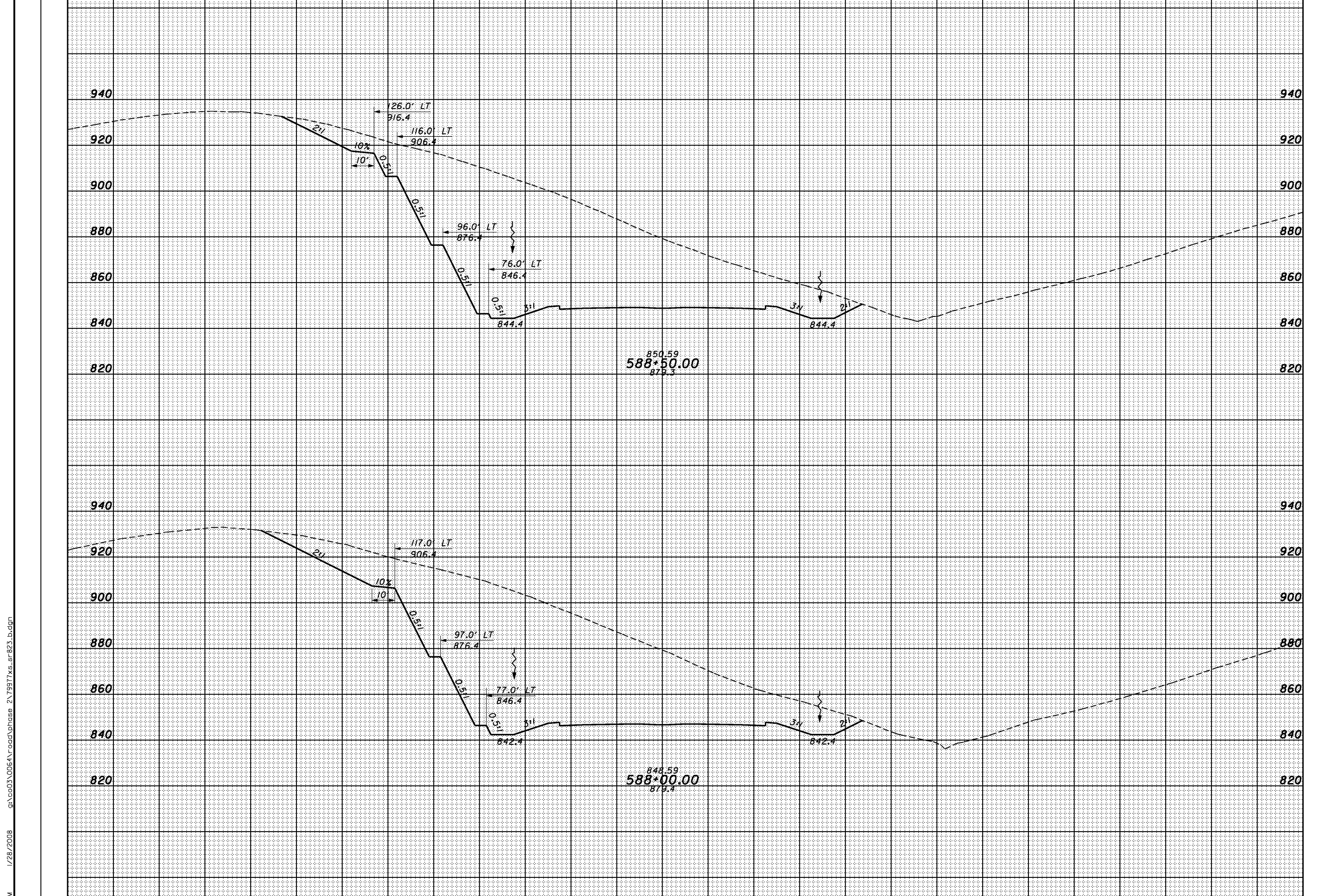
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 587+00.00 TO STA. 587+50.00

SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 588+00.00 0 STA. 588+50.00

SCI-823-10.13

1/28/2008 3:50 PM g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

3:50:02 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 589+00.00 TO STA. 589+50.00

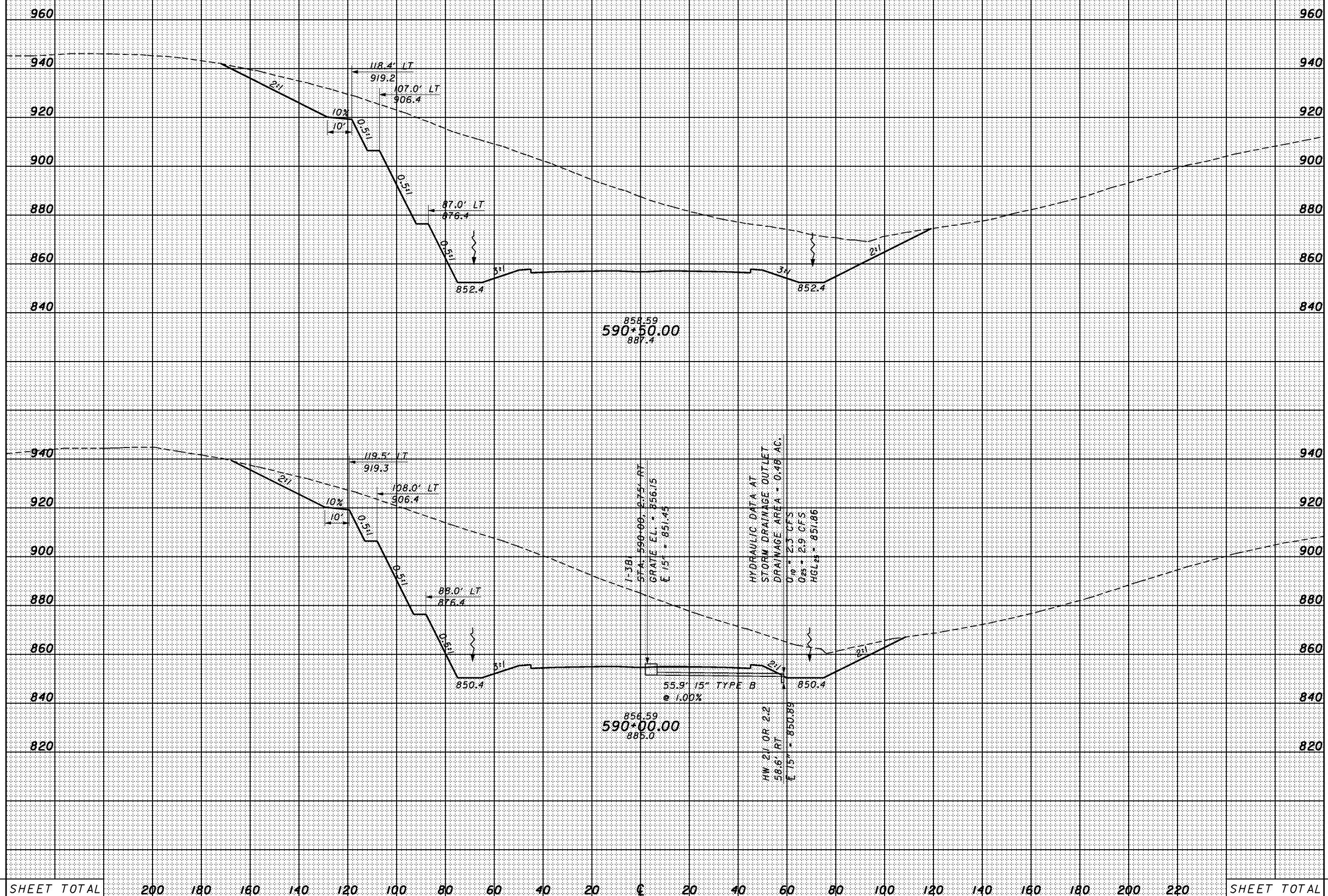
SCI-823-10.13

170

3:56:03 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



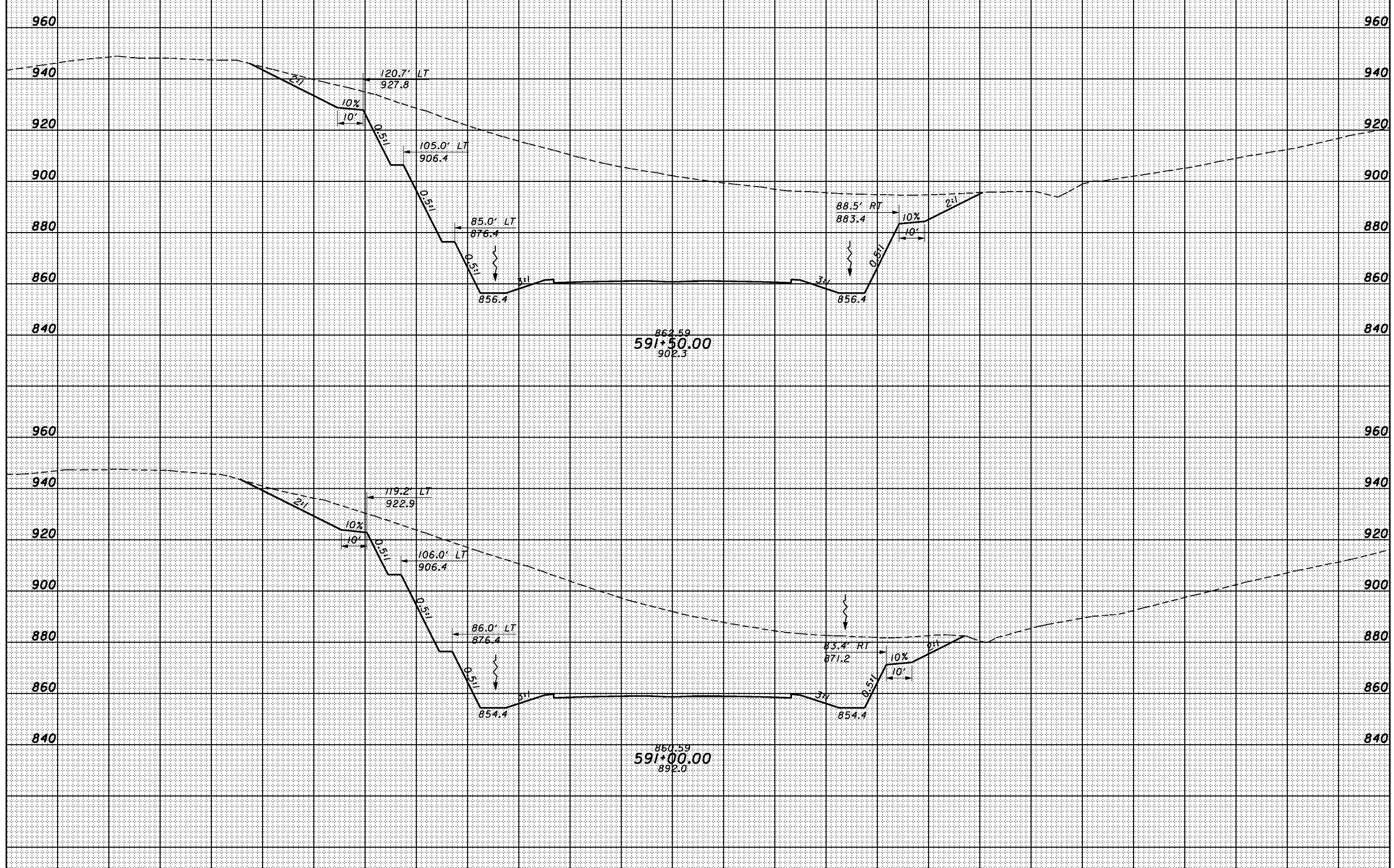
CROSS SECTIONS
 SR823 - STA. 590+00.00 TO STA. 590+50.00

SCI-823-10.13

SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

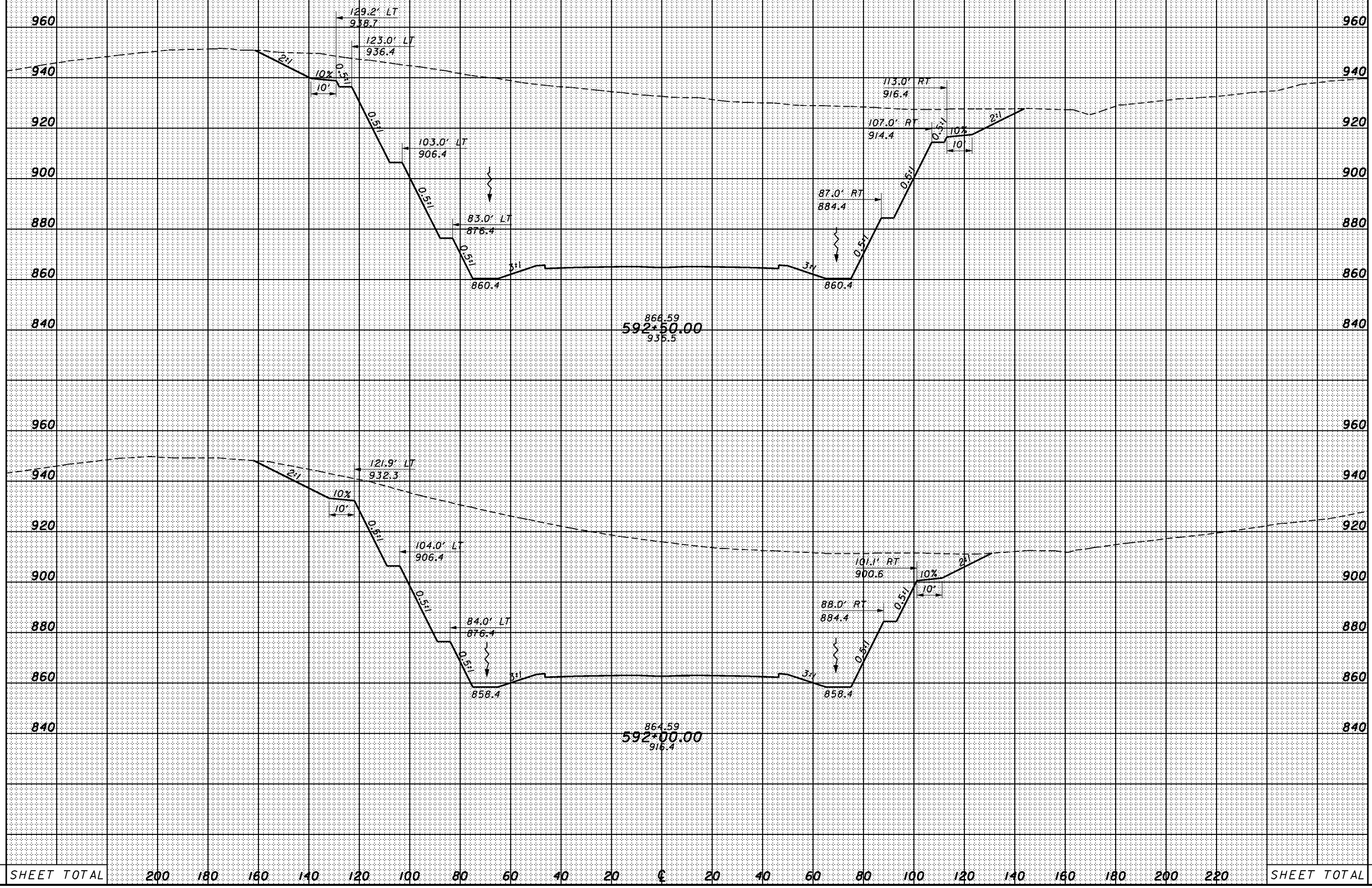
CROSS SECTIONS
 SR823 - STA. 591+00.00 TO STA. 591+50.00
 SCI-823-10.13

3:50:04 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:56:05 PM 1/28/2008 g:\co03\0064\road\phase 2\7997xs_sr823_b.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 592+00.00 TO STA. 592+50.00

SCI-823-10.13

173

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:56:06 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

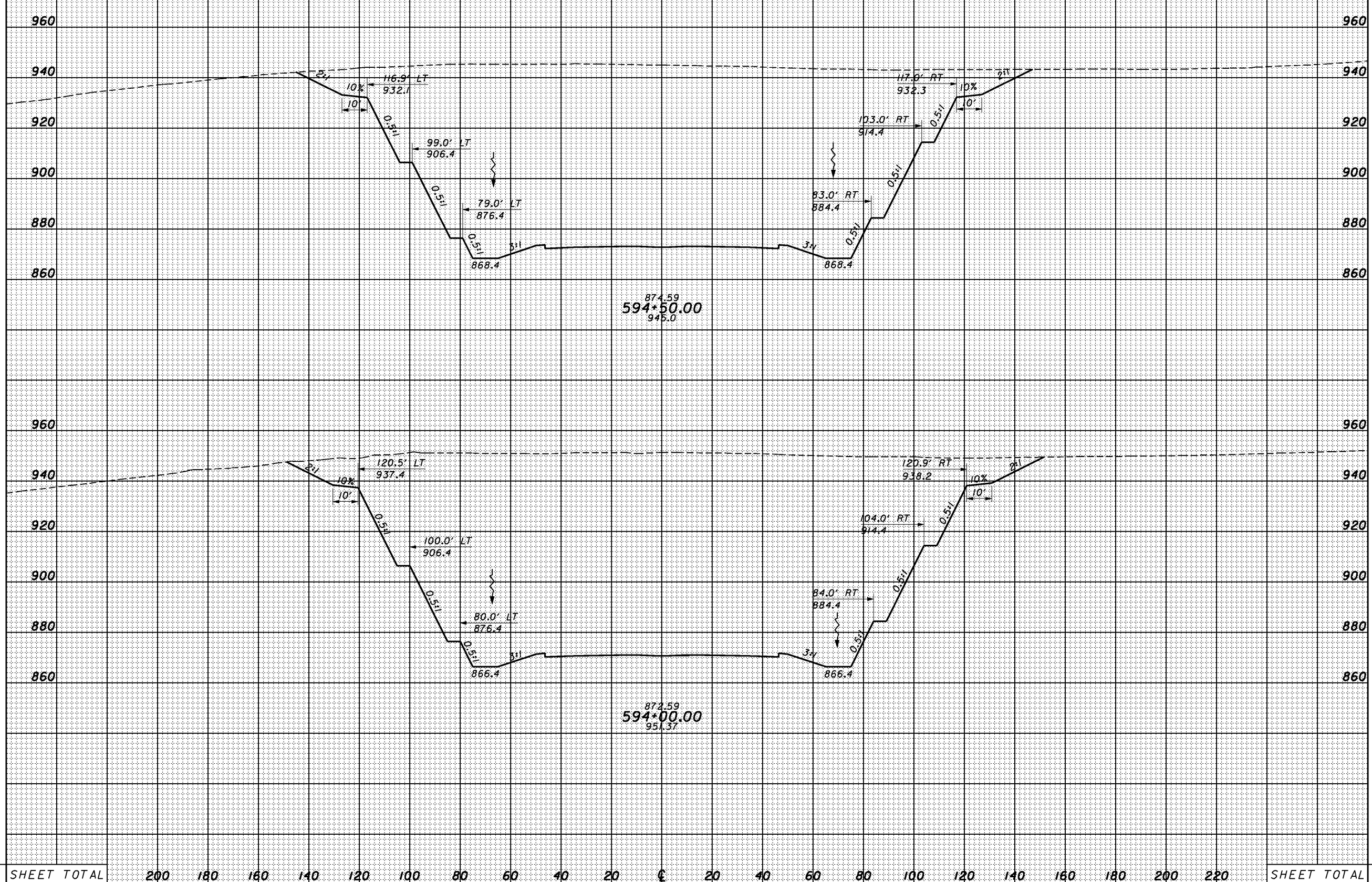
CROSS SECTIONS
SR823 - STA. 593+00.00 TO STA. 593+50.00

SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:56:07 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn



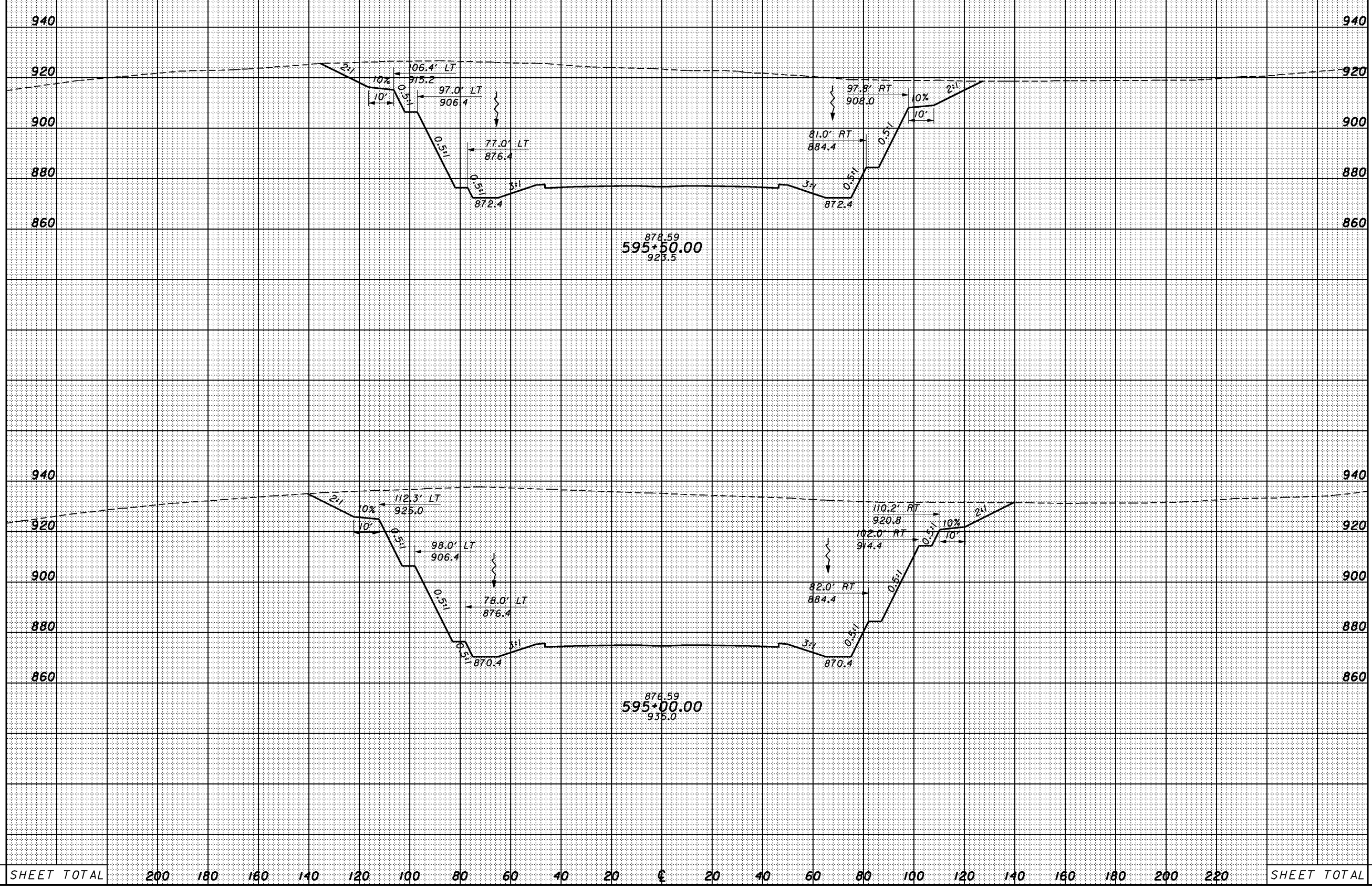
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
 SR823 - STA. 594+00.00 TO STA. 594+50.00
 SCI-823-10.13
 175

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:56:08 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn



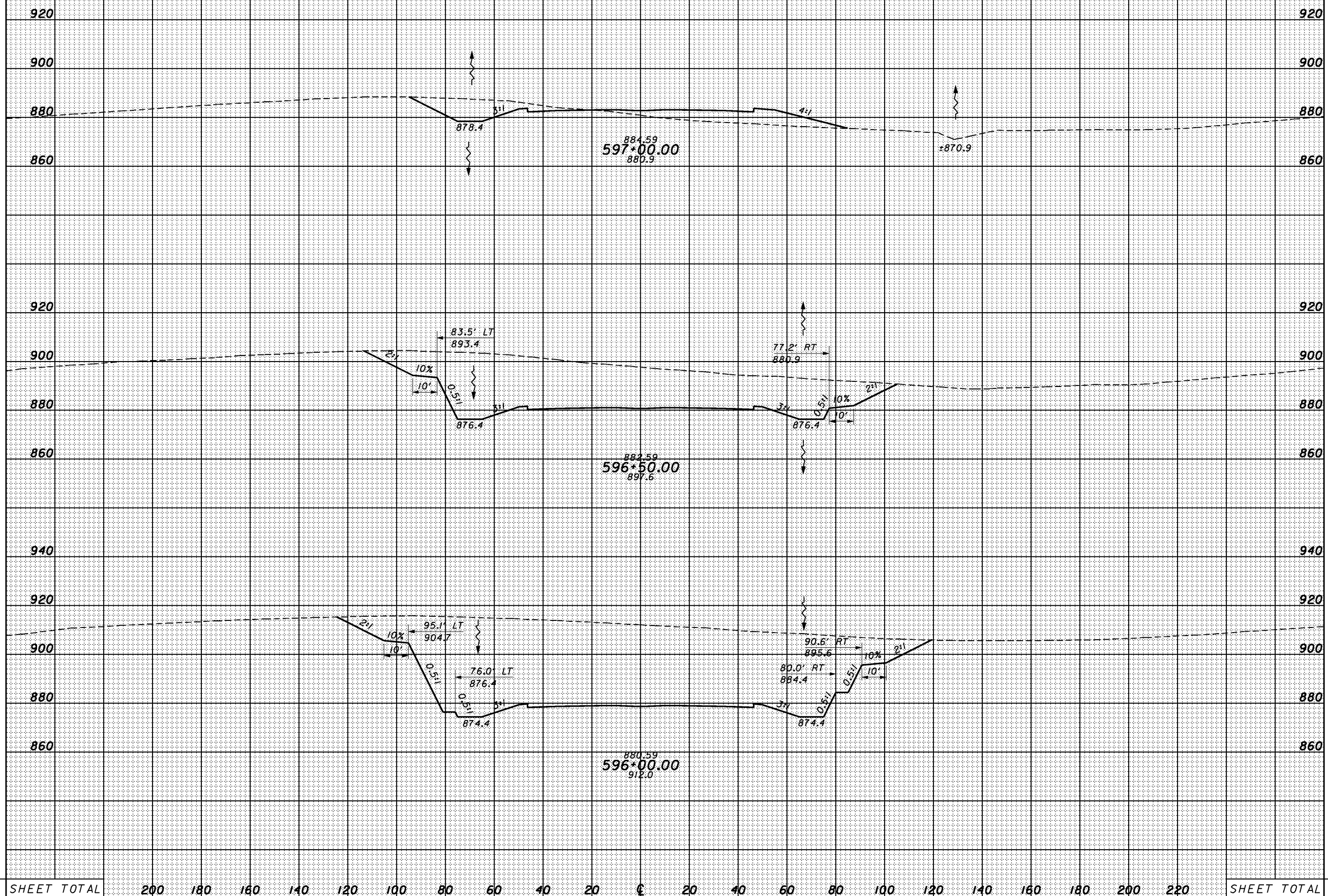
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 595+00.00 TO STA. 595+50.00
SCI-823-10.13
176

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:50:09 PM 1/28/2008 g:\c003\0064\road\phase 2\79977xs_sr823_b.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 596+00.00 TO STA. 597+00.00

SCI-823-10.13

177

3:55:10 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_sr823_b.dgn

SEEDING	
END WIDTH	SO. YDS.

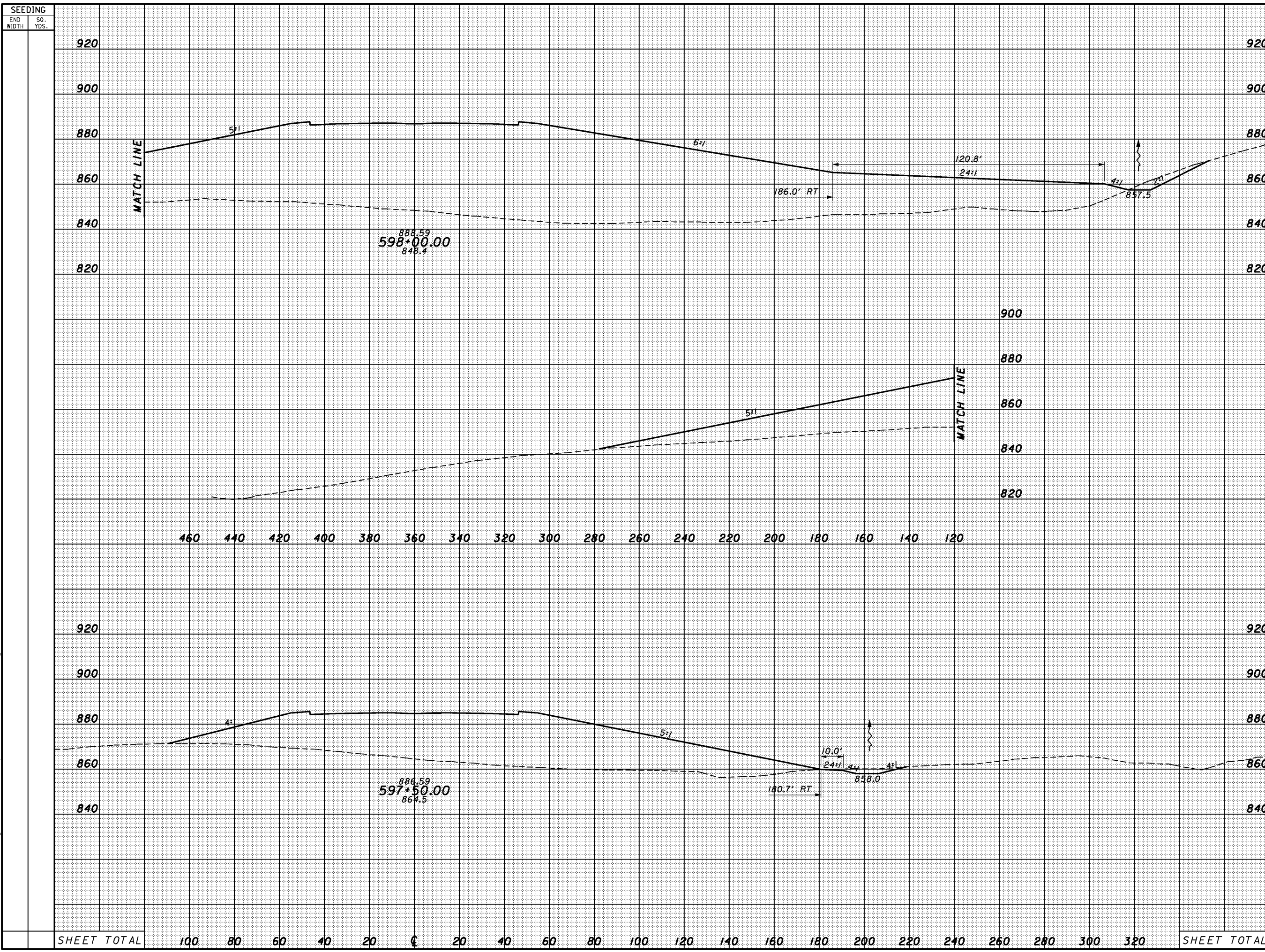
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 597+50.00 TO STA. 598+00.00

SCI-823-10.13

178



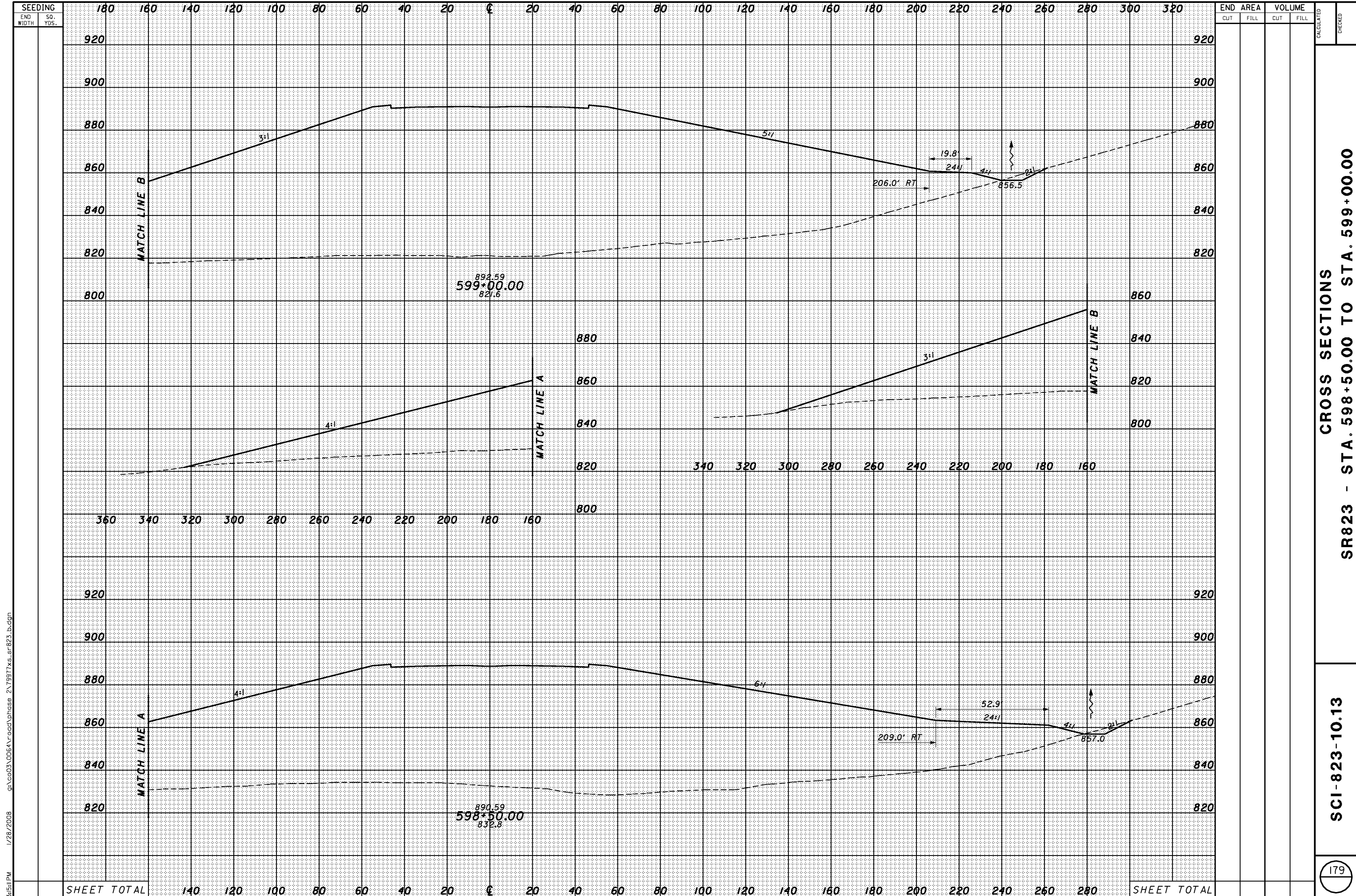
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 597+50.00 TO STA. 598+00.00

SCI-823-10.13

178



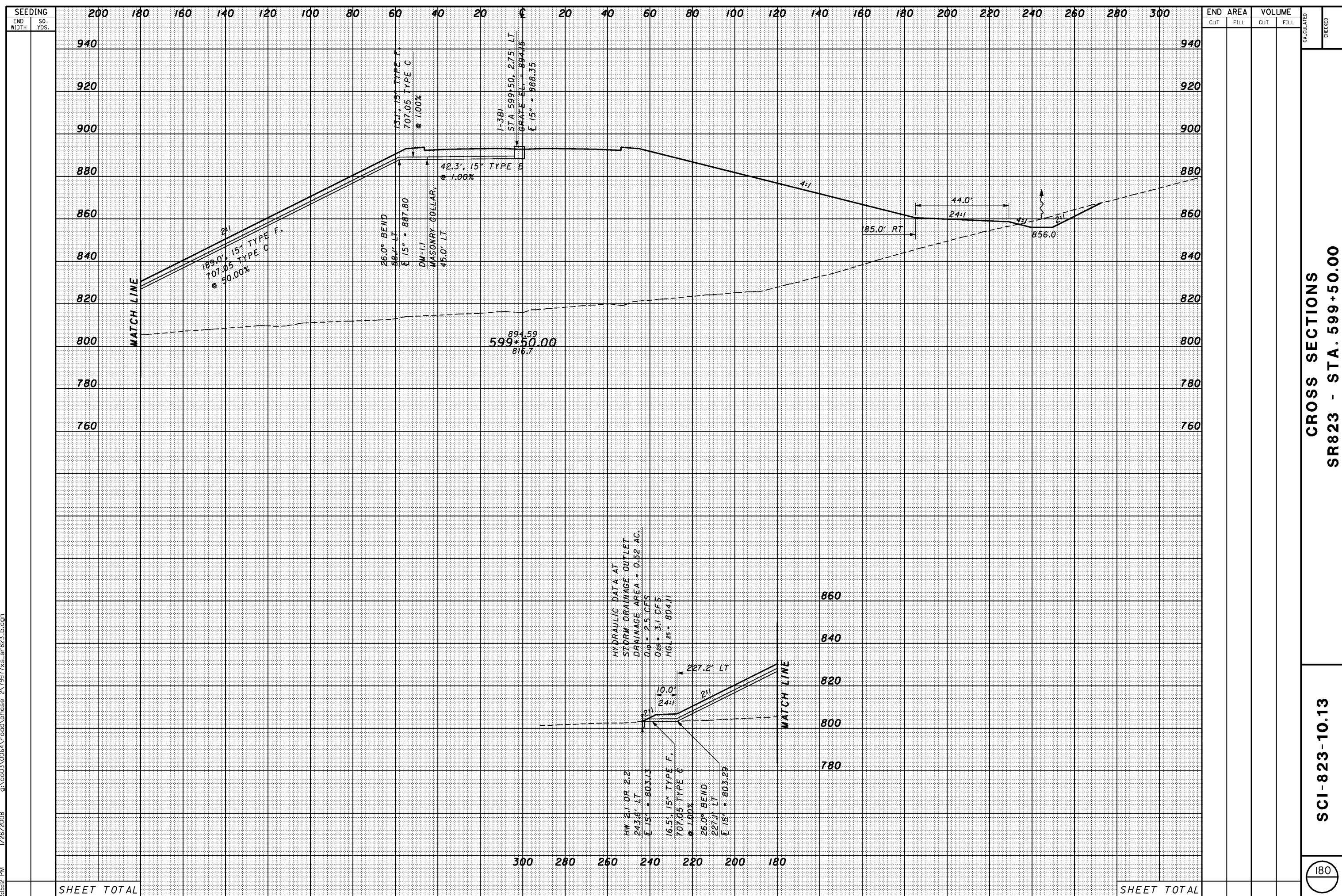
CROSS SECTIONS
 SR823 - STA. 598+50.00 TO STA. 599+00.00

SCI-823-10.13

3:55:11 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn

SHEET TOTAL 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 SHEET TOTAL

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SHEET TOTAL

SHEET TOTAL

SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		

CROSS SECTIONS
SR823 - STA. 599+50.00

SCI-823-10.13

3:55:13 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn

SEEDING	
END WIDTH	SO. YDS.

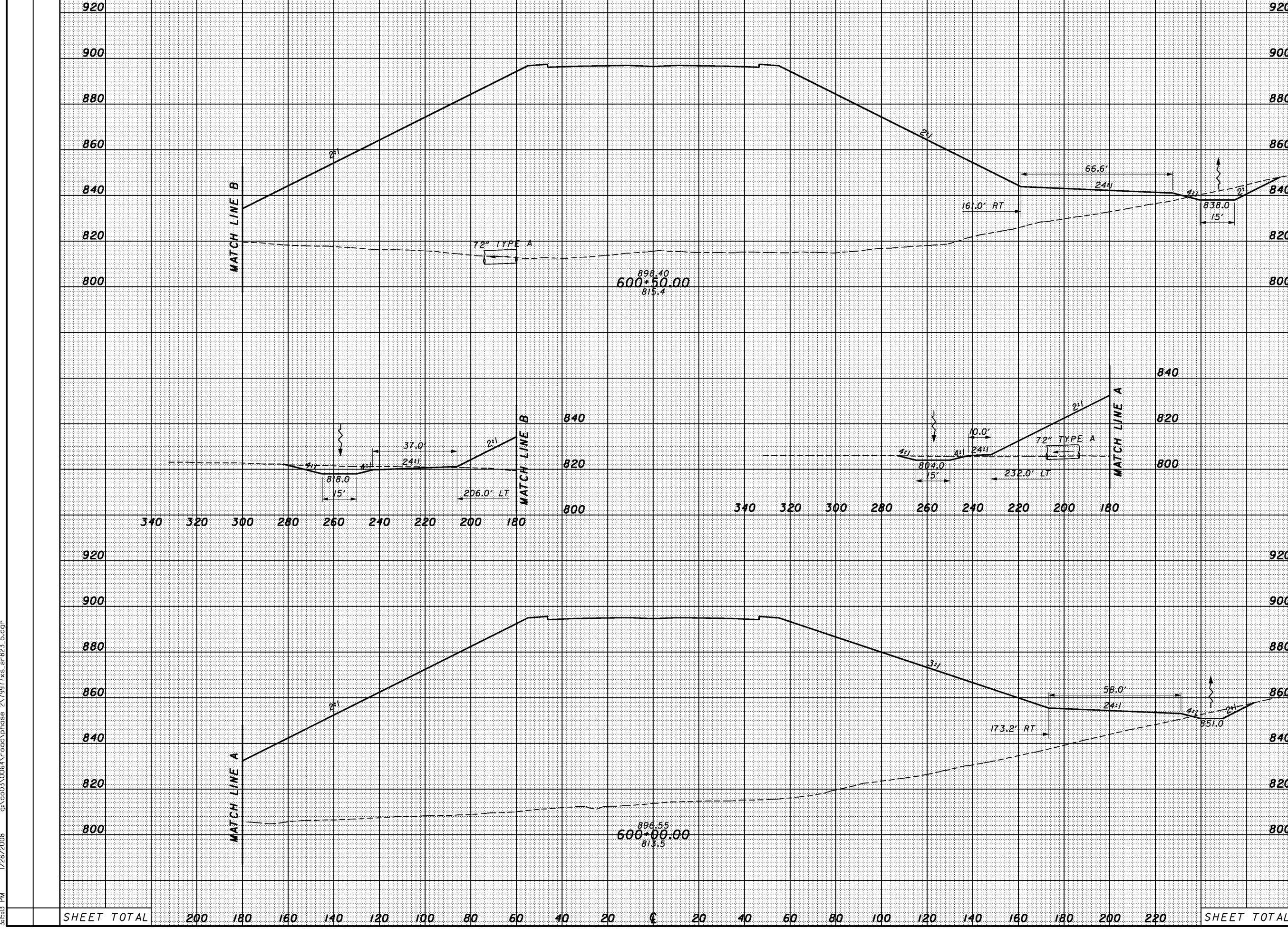
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED

CROSS SECTIONS
SR823 - STA. 600+00.00 TO STA. 600+50.00

SCI-823-10.13

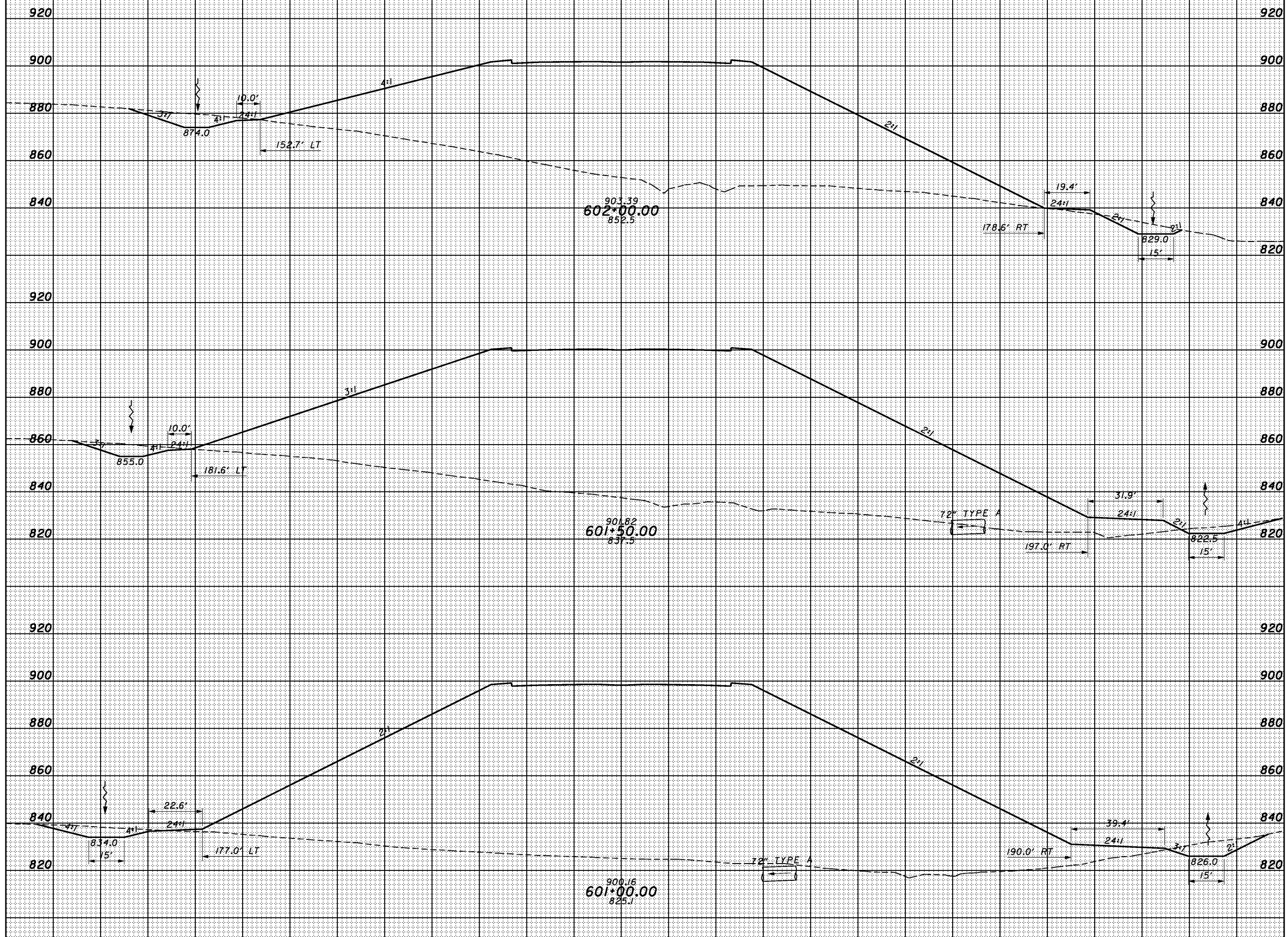
181



920	920				
900	900				
880	880				
860	860				
840	840				
820	820				
800	800				
840	840				
820	820				
800	800				
920	920				
900	900				
880	880				
860	860				
840	840				
820	820				
800	800				
SHEET TOTAL	200	180	160	140	120
	100	80	60	40	20
	€	20	40	60	80
	100	120	140	160	180
	200	220	SHEET TOTAL		

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 601+00.00 TO STA. 602+00.00

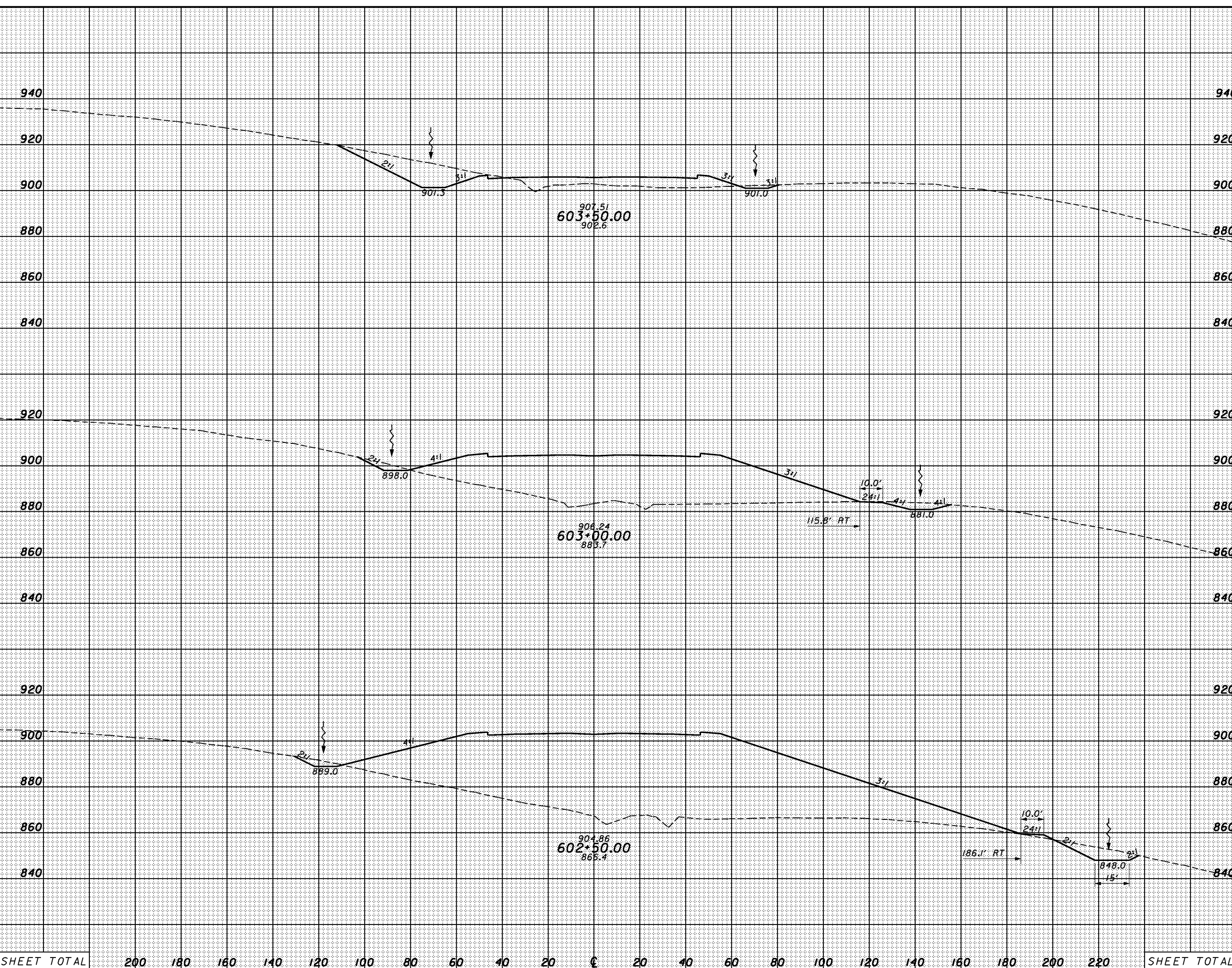
SCI-823-10.13

1/28/2008 3:55:14 PM g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn

3:55:15 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_sr823_b.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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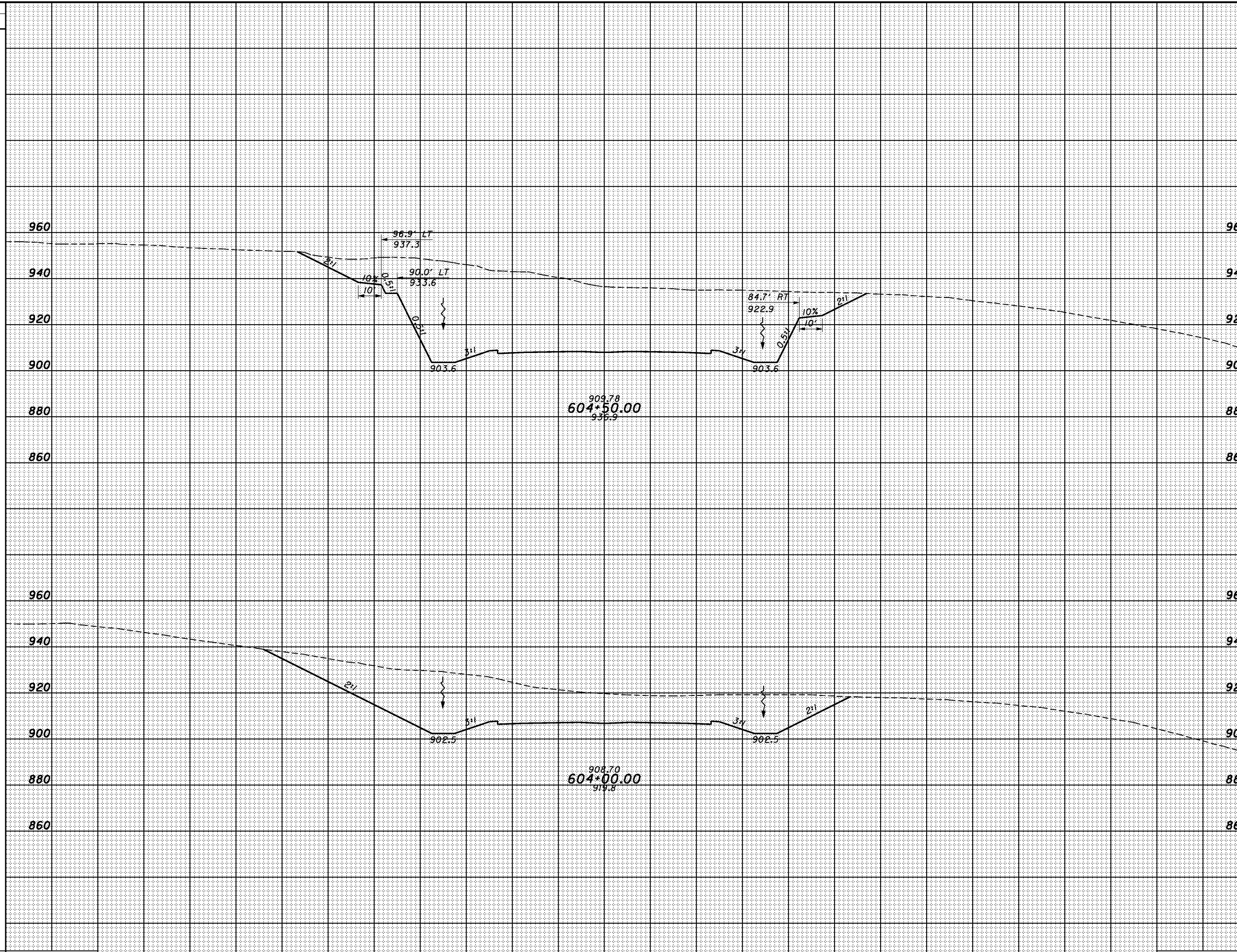
SR823 - STA. 602+50.00 TO STA. 603+50.00

SCI-823-10.13

3:51:16 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



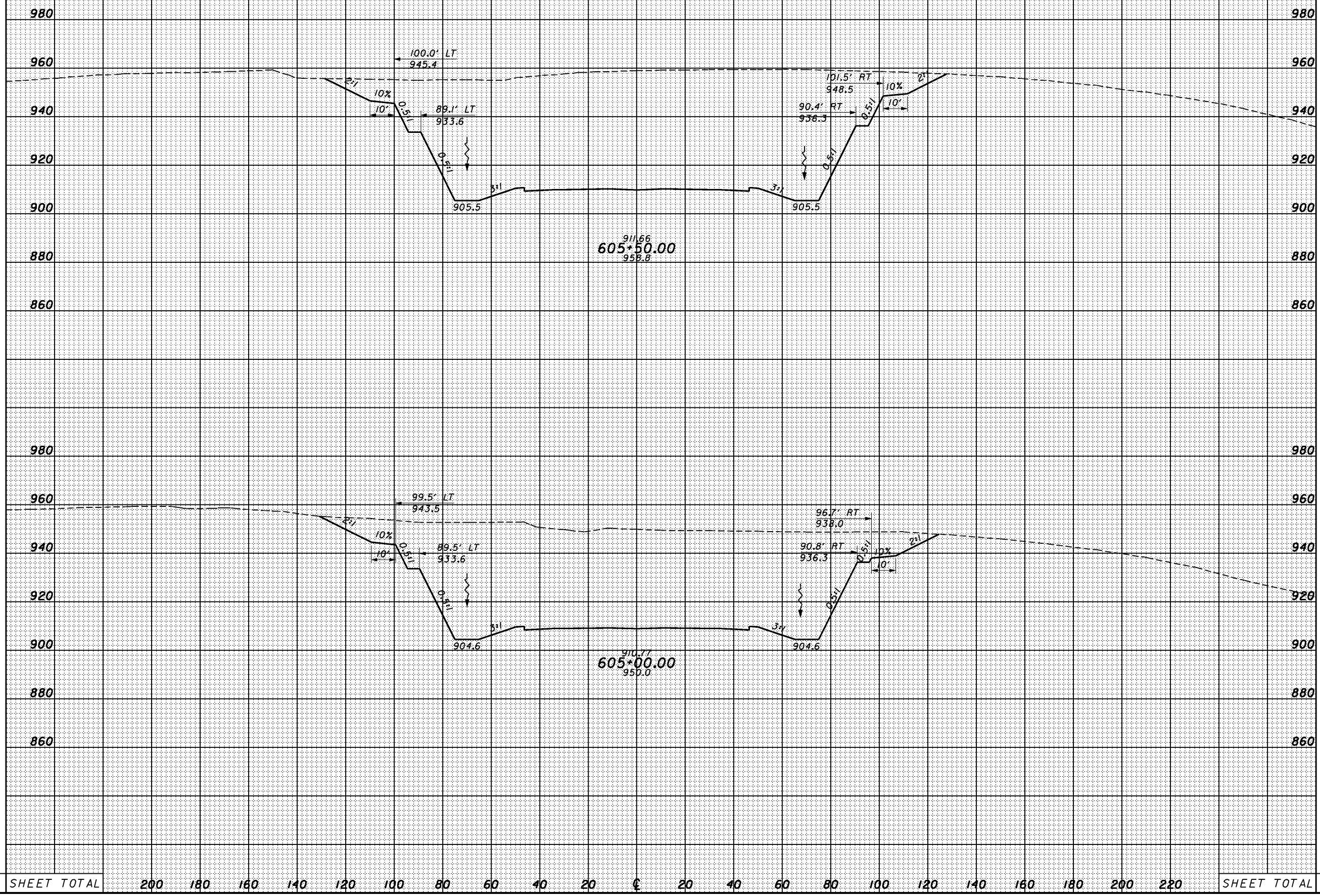
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
 SR823 - STA. 604+00.00 TO STA. 604+50.00
 SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

3:56:16 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 605+00.00 TO STA. 605+50.00

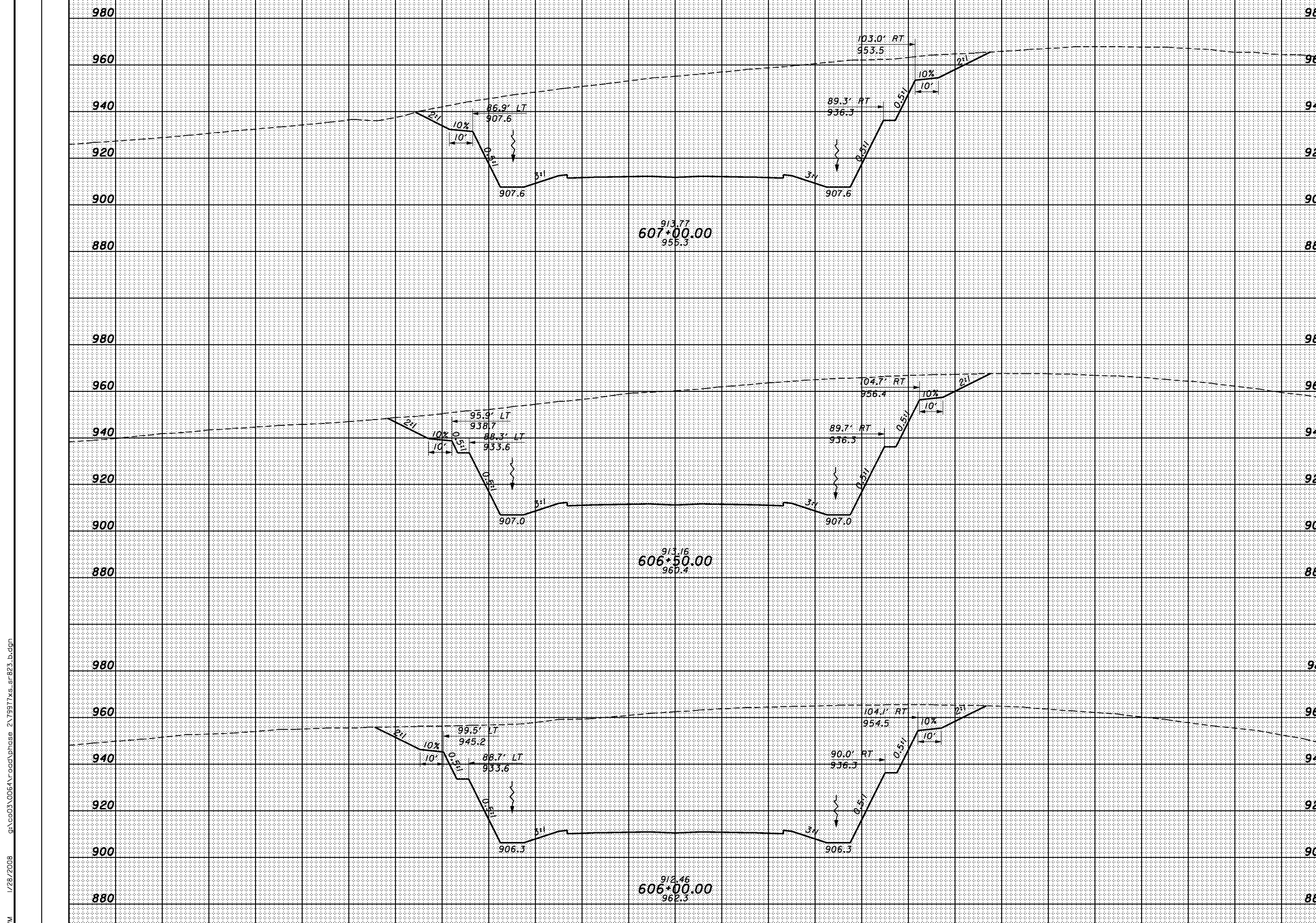
SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

980
960
940
920
900
880
980
960
940
920
900
880
980
960
940
920
900
880
980
960
940
920
900
880

980
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980
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940
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880
980
960
940
920
900
880
980
960
940
920
900
880



913.77
607+00.00
955.3

913.16
606+50.00
960.4

912.46
606+00.00
962.3

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 606+00.00 TO STA. 607+00.00

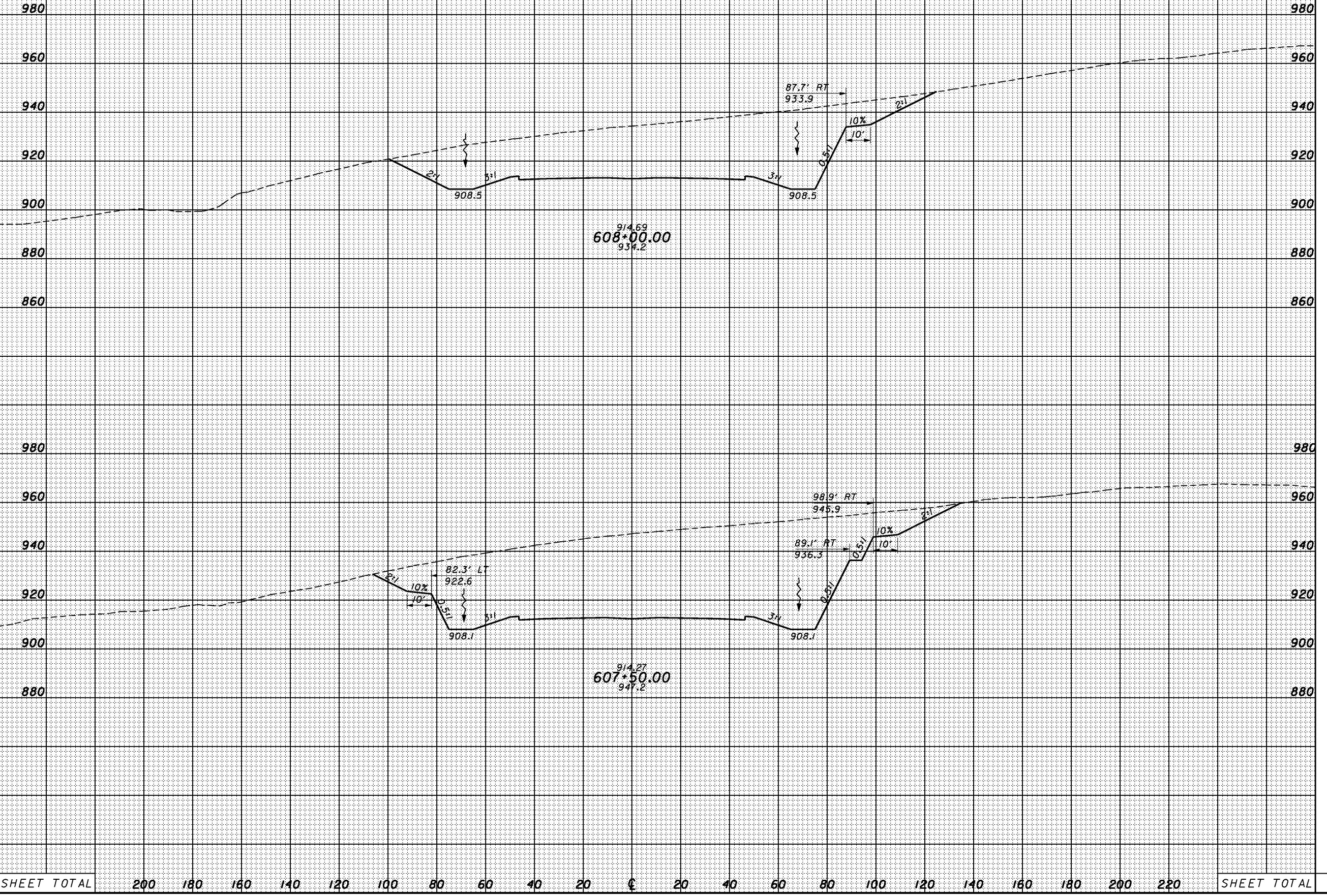
SCI-823-10.13

1/28/2008 3:55:17 PM g:\c03\0064\road\phase 2\79917xs_sr823_b.dgn

3:55:18 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



914.69
608+00.00
934.2

914.27
607+50.00
947.2

SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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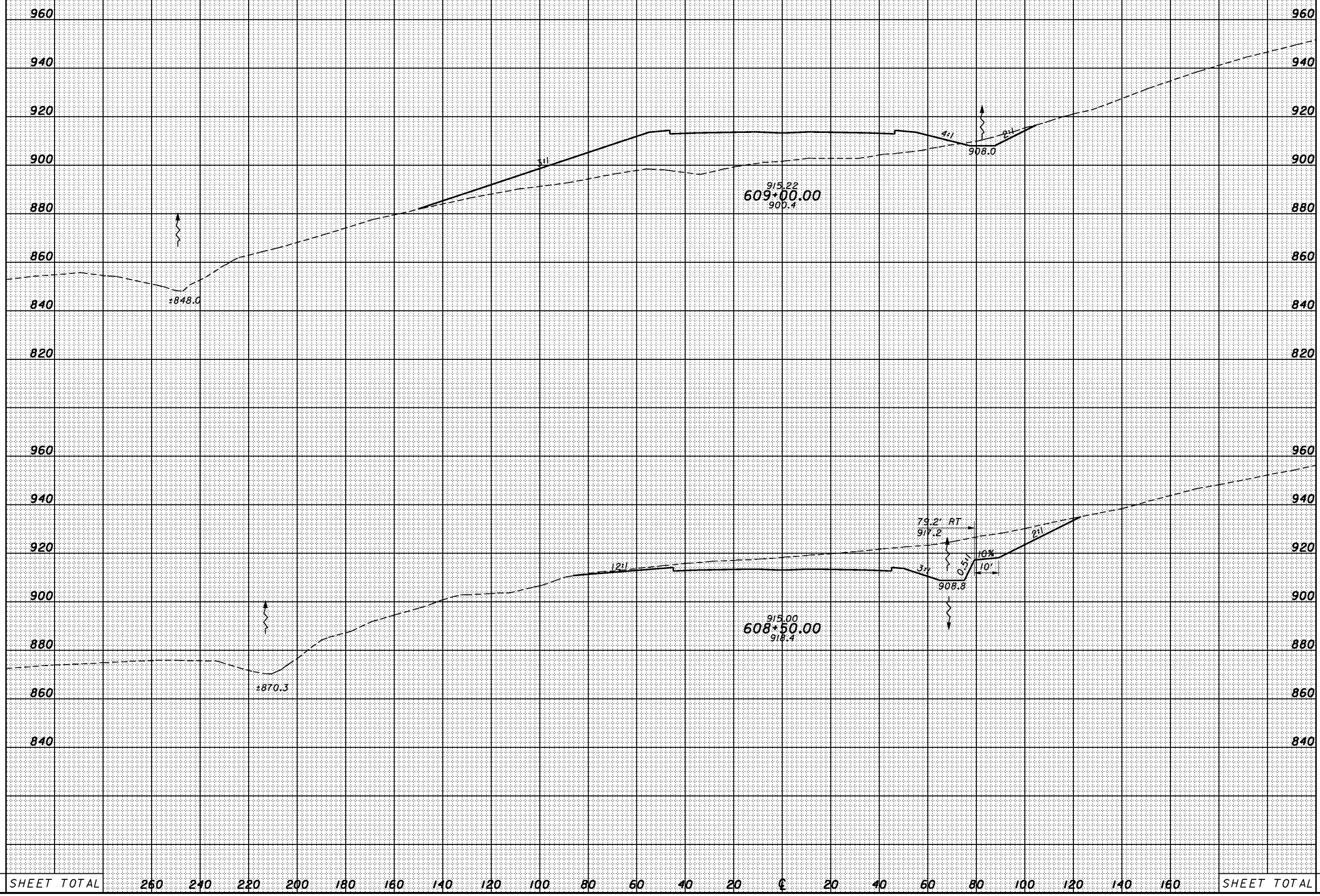
CROSS SECTIONS
SR823 - STA. 607+50.00 TO STA. 608+00.00

SCI-823-10.13

3:52:20 PM 1/28/2008 g:\co03\0064\road\phase 2\7997\ss_sr823_b.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS
SR823 - STA. 608+50.00 TO STA. 609+00.00

SCI-823-10.13

188

SHEET TOTAL	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	SHEET TOTAL
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3:55:20 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	SHEET TOTAL

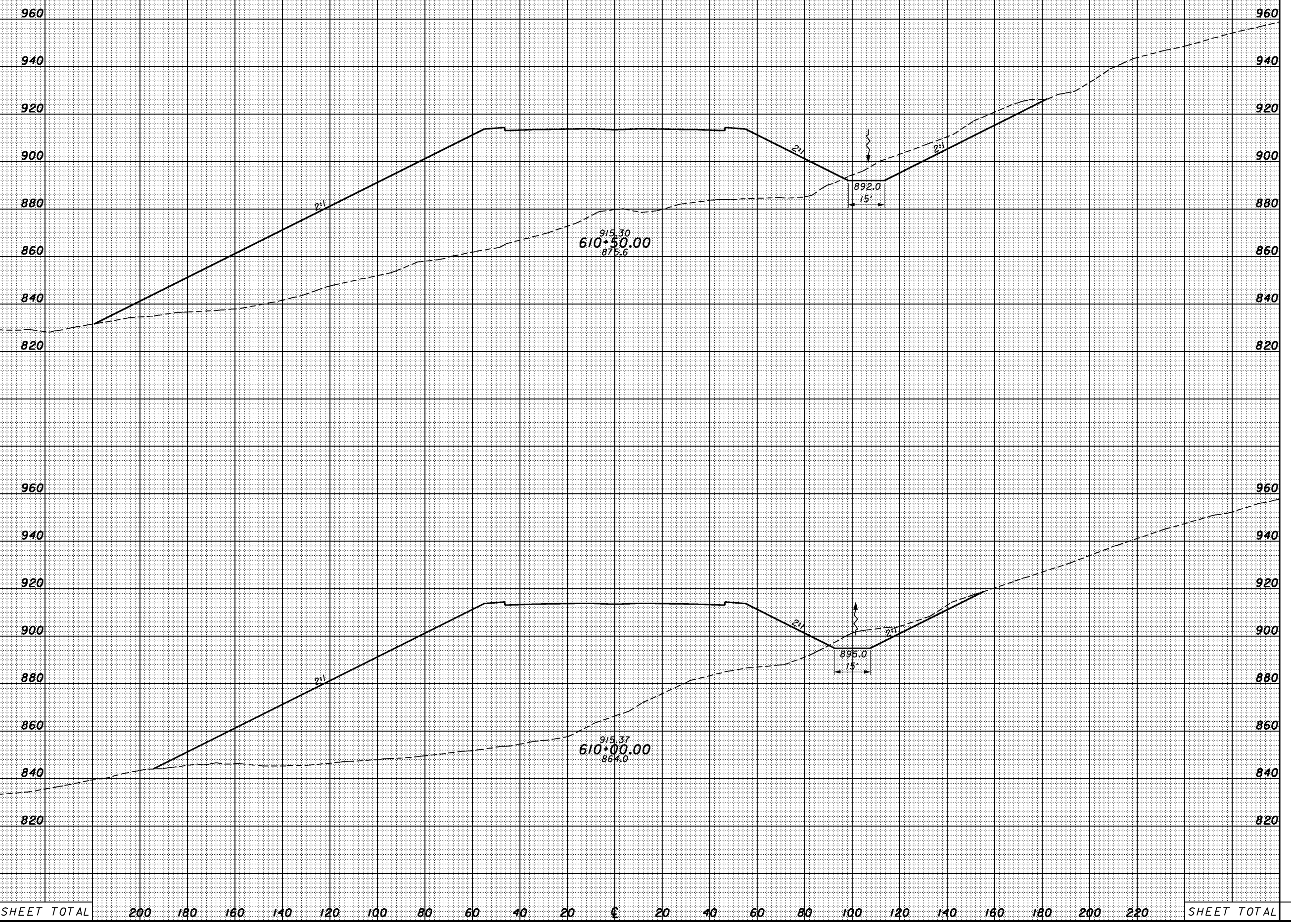
CROSS SECTIONS
SR823 - STA. 609+50.00

SCI-823-10.13

3:52:21 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	±	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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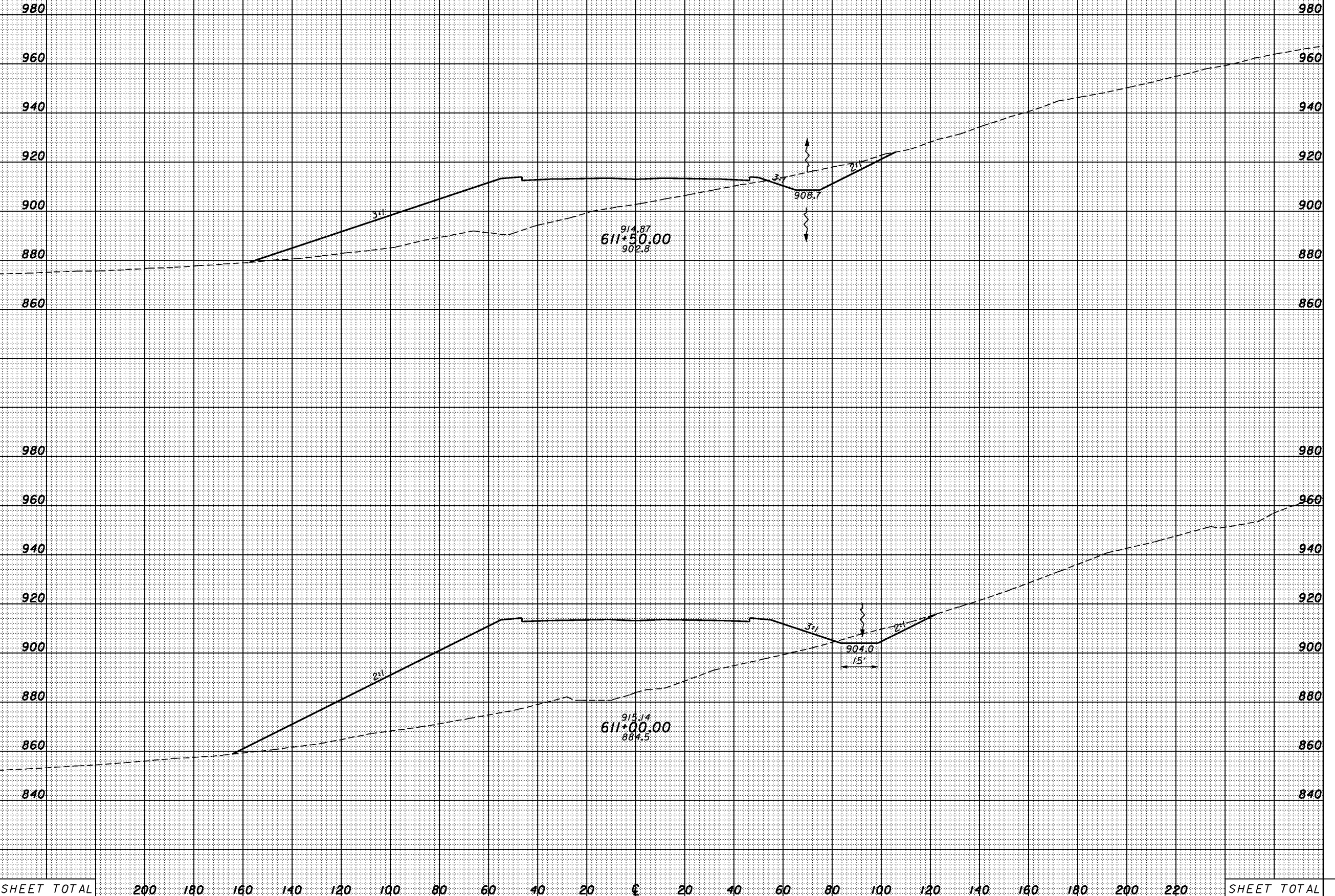
CROSS SECTIONS
SR823 - STA. 610+00.00 TO STA. 610+50.00

SCI-823-10.13

3:52:22 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

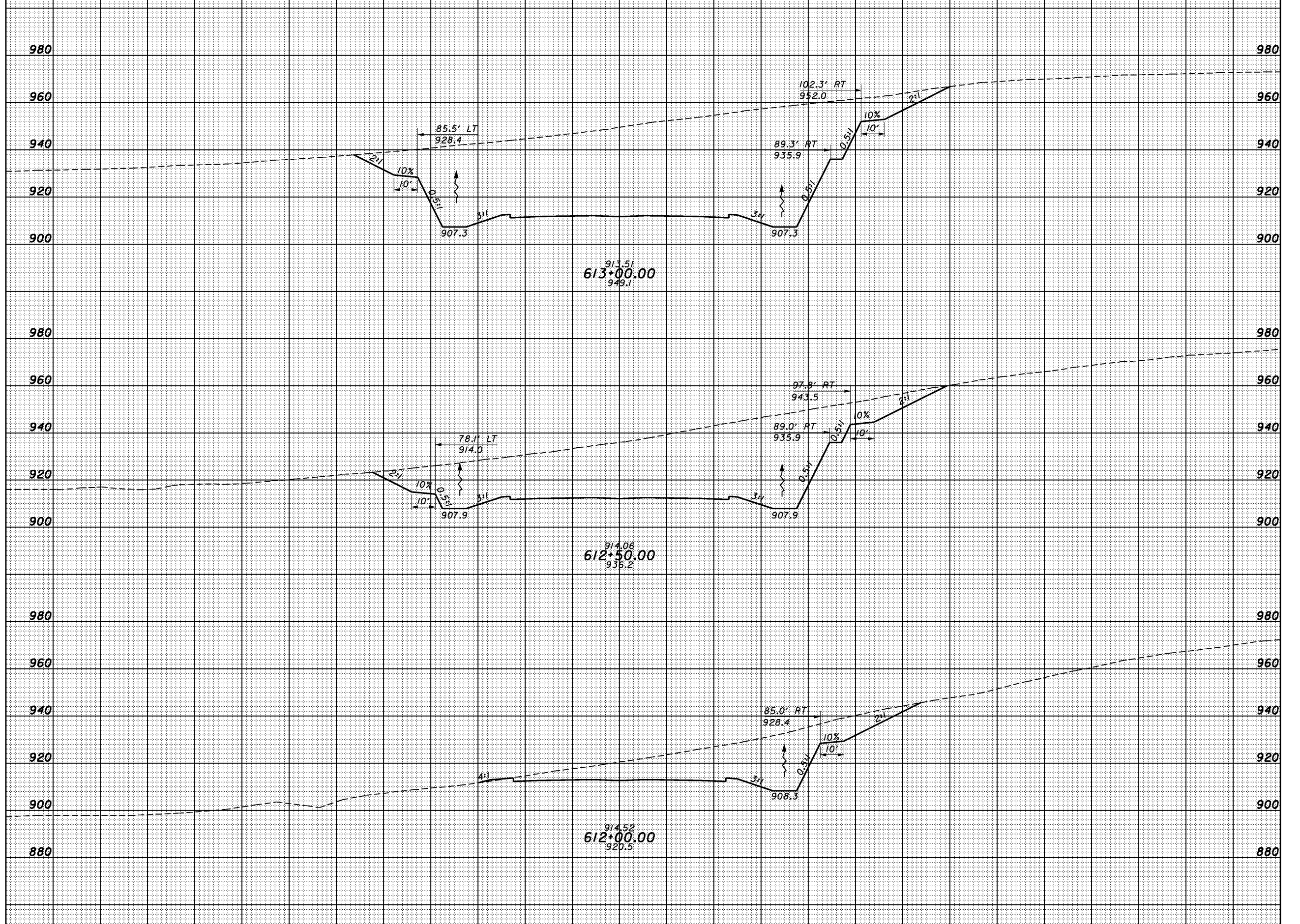
CROSS SECTIONS
SR823 - STA. 611+00.00 TO STA. 611+50.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:56:23 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn



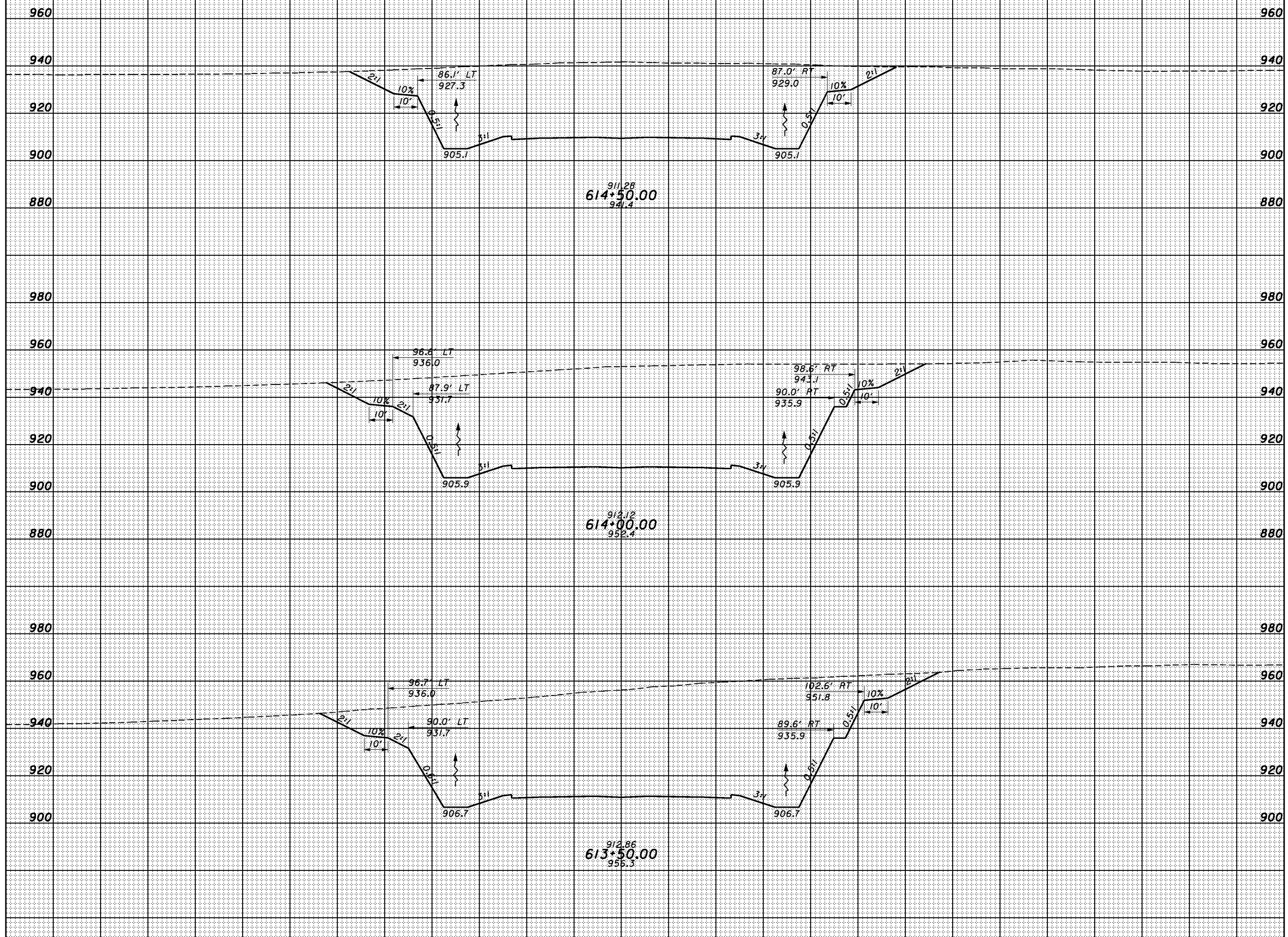
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 612+00.00 TO STA. 613+00.00

SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 613+50.00 TO STA. 614+50.00

SCI-823-10.13

3/5/24 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn

3:52:25 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn

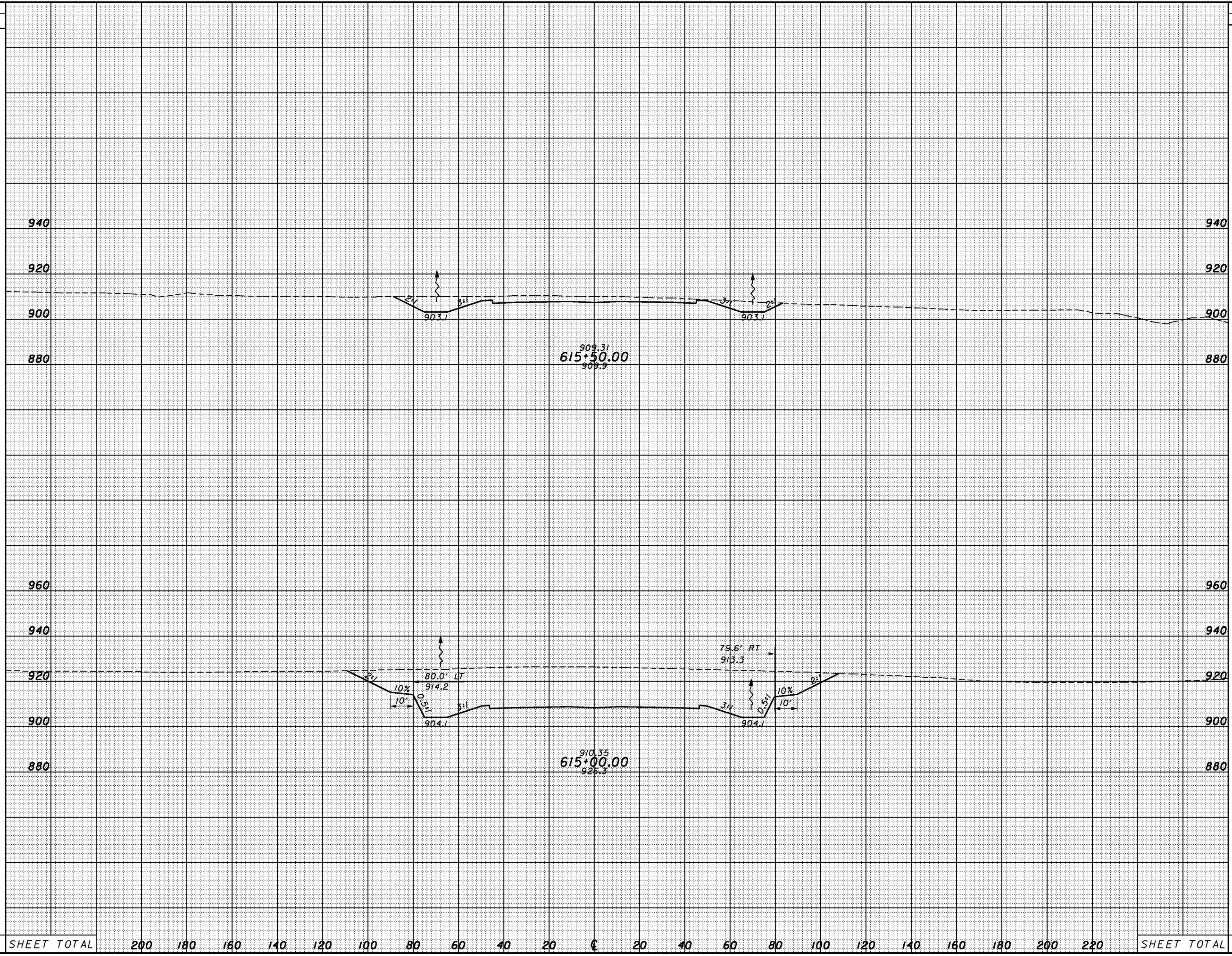
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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SR823 - STA. 615+00.00 TO STA. 615+50.00

SCI-823-10.13



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3:56:26 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_b.dgn

SEEDING	
END WIDTH	SO. YDS.

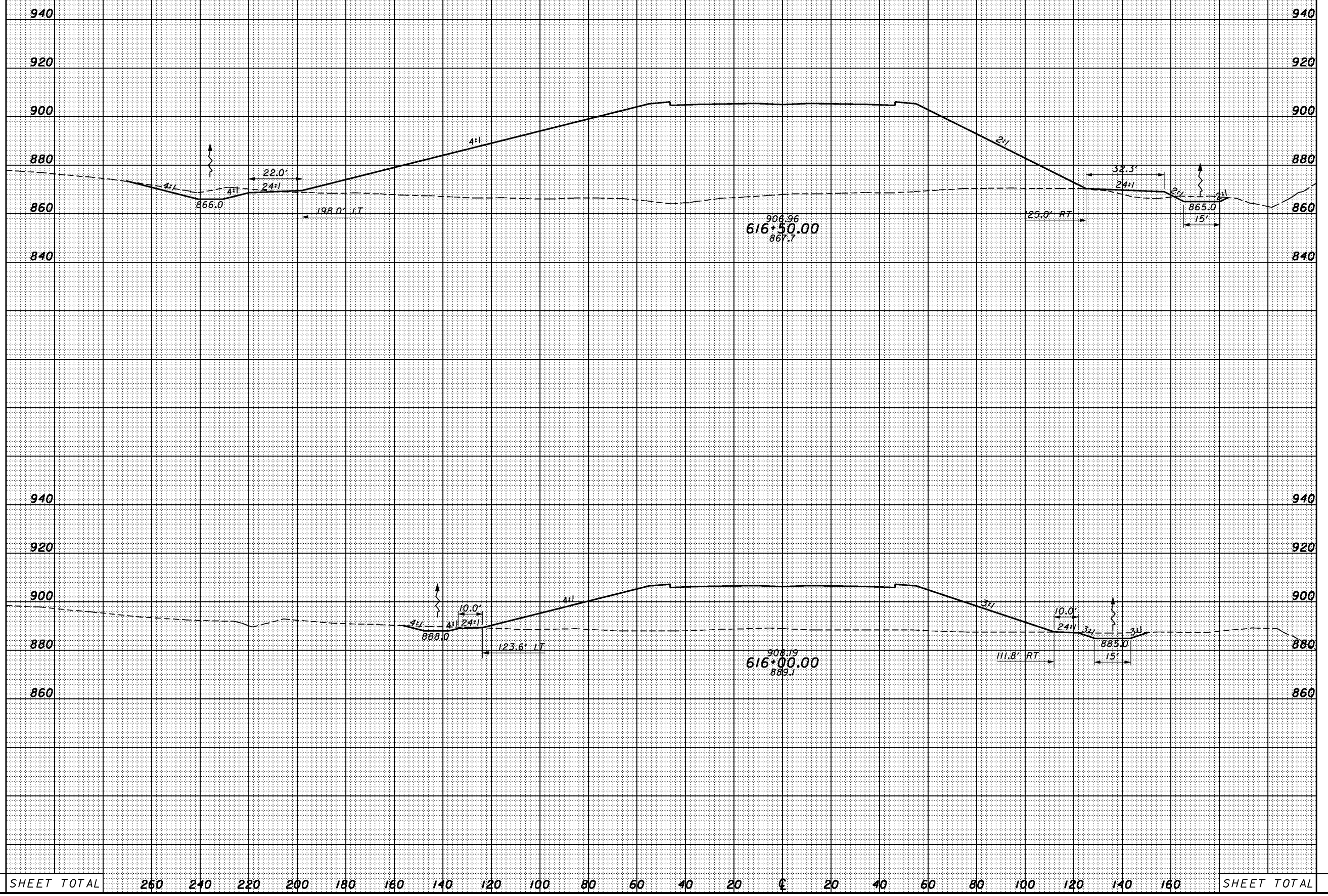
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED

CROSS SECTIONS
SR823 - STA. 616+00.00 TO STA. 616+50.00

SCI-823-10.13

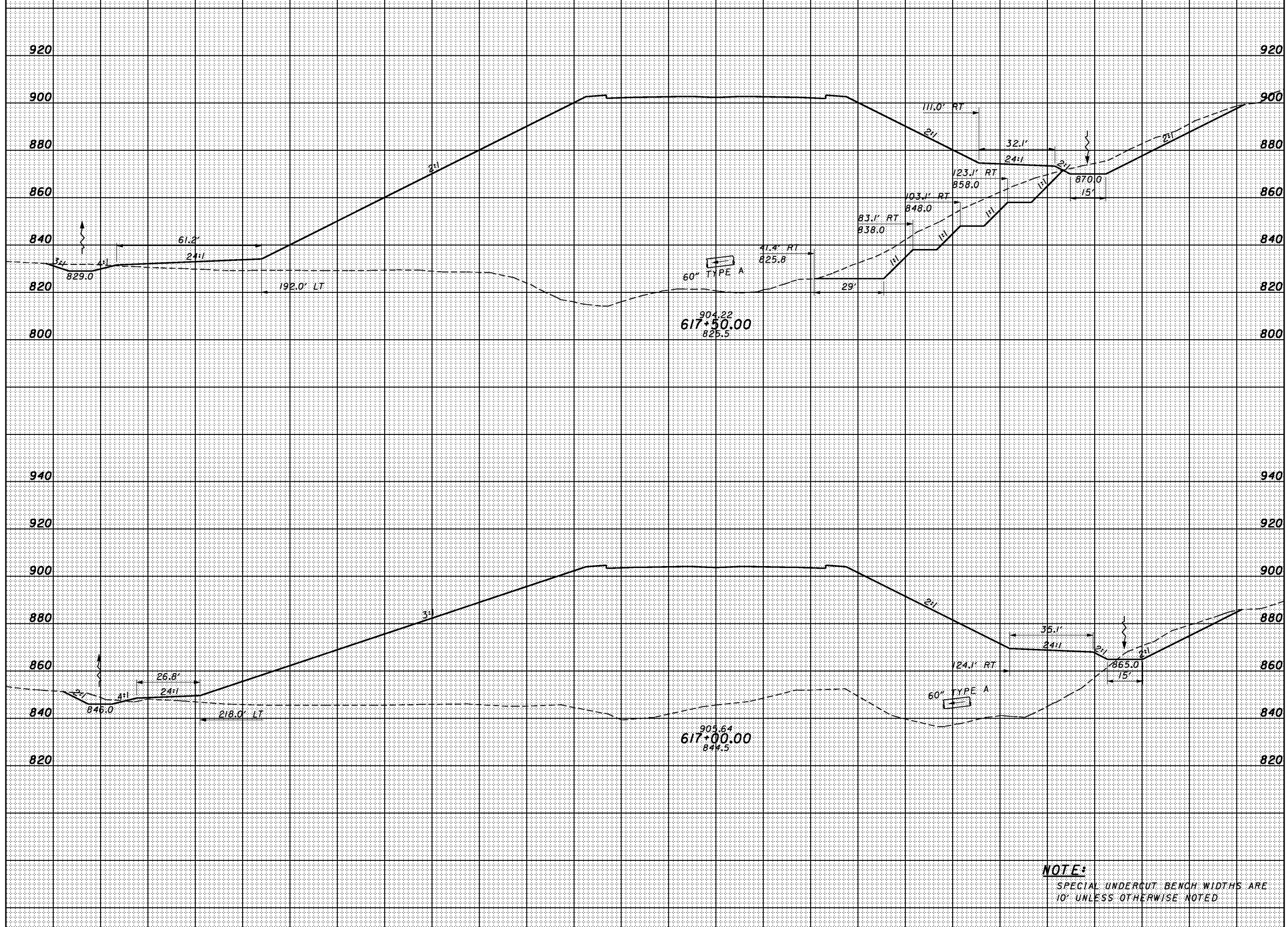
195



SHEET TOTAL	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	SHEET TOTAL
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SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



SR823 - STA. 617+00.00 TO STA. 617+50.00

SCI-823-10.13

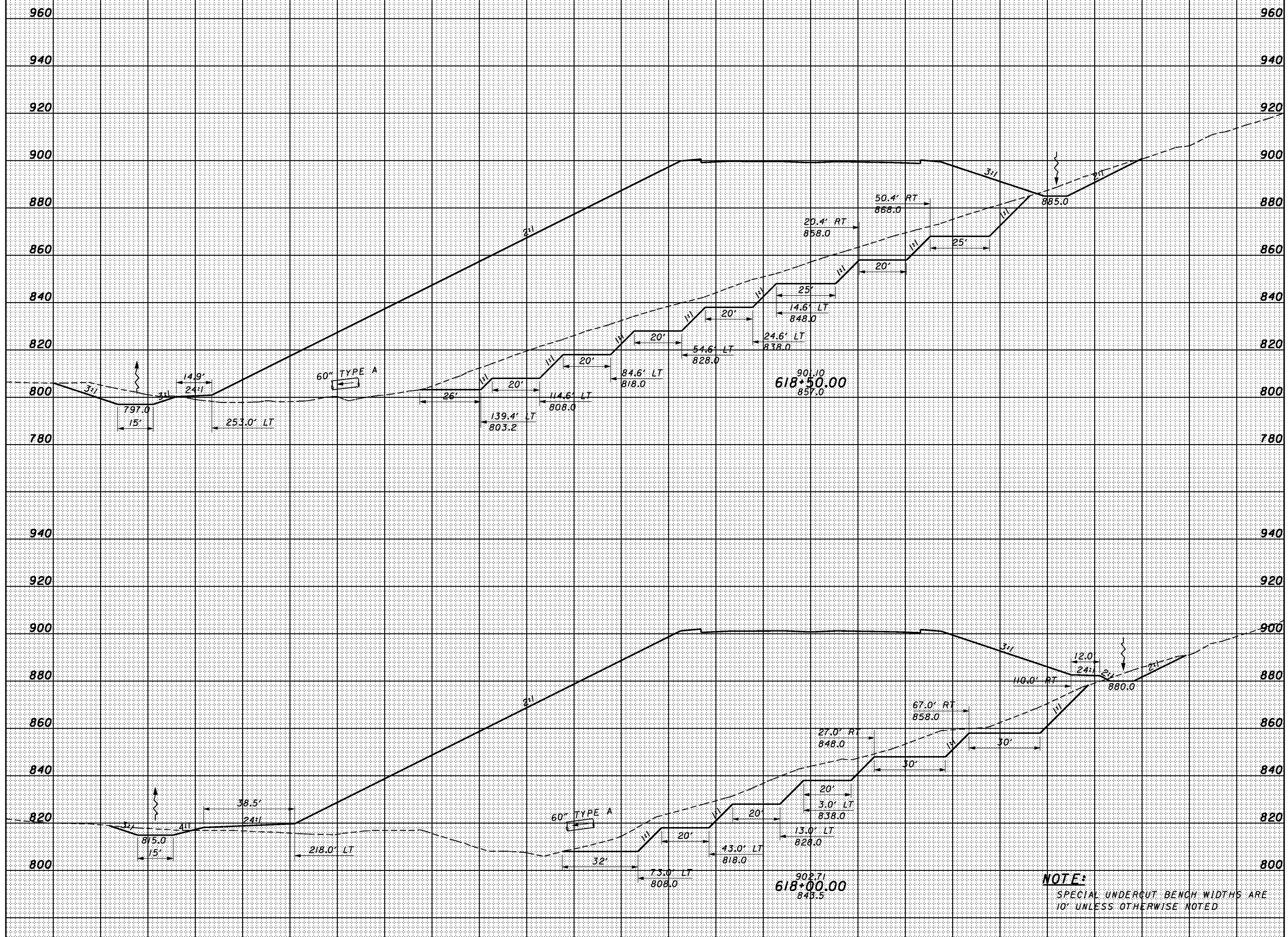
3/5/27 PM 1/28/2008 g:\c003\0064\road\phase 2\79977xs_sr823_b.dgn

SHEET TOTAL	240	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	SHEET TOTAL
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NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE
10' UNLESS OTHERWISE NOTED

SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



3:56:28 PM 1/28/2008 g:\co03\00641\road\phase 2\79977xs_sr823_b.dgn

SHEET TOTAL 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 SHEET TOTAL

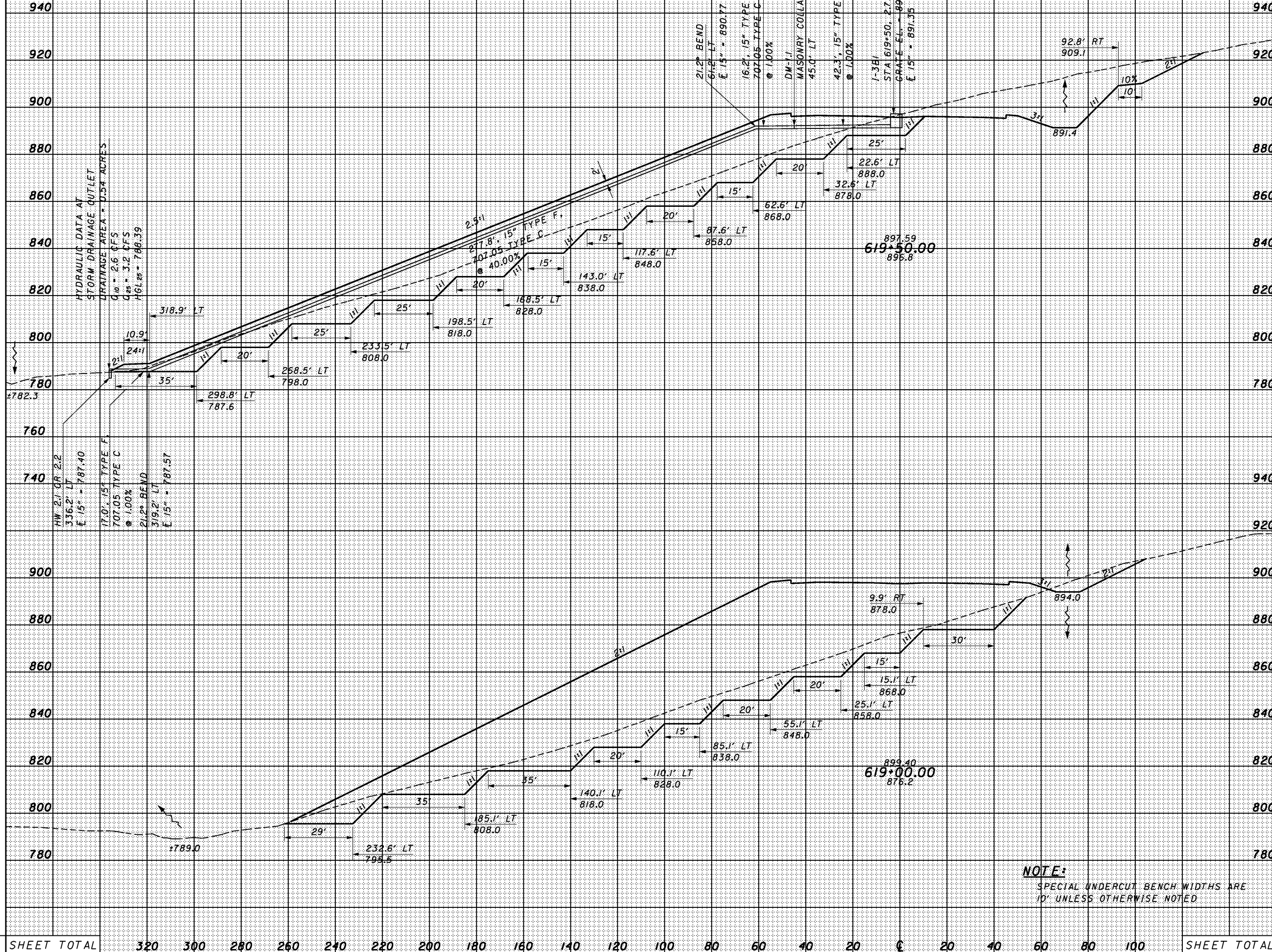
CROSS SECTIONS
SR823 - STA. 618+00.00 TO STA. 618+50.00

SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

940
920
900
880
860
840
820
800
780
760
740
940
920
900
880
860
840
820
800
780



END AREA	VOLUME
CUT	FILL
940	940
920	920
900	900
880	880
860	860
840	840
820	820
800	800
780	780
940	940
920	920
900	900
880	880
860	860
840	840
820	820
800	800
780	780
SHEET TOTAL	SHEET TOTAL

3/15/2008 1/28/2008 g:\co03\0064\road\phase 2\79917xs_sr823_b.dgn

CROSS SECTIONS
SR823 - STA. 619+00.00 TO STA. 619+50.00

SCI-823-10.13

NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE 10' UNLESS OTHERWISE NOTED.

619+50.00
895.8

619+00.00
876.2

HYDRAULIC DATA AT
STORM DRAINAGE OUTLET
DRAINAGE AREA = 0.54 ACRES
C₁₀ = 2.6 CFS
C₂₅ = 3.2 CFS
HGL @ 788.39

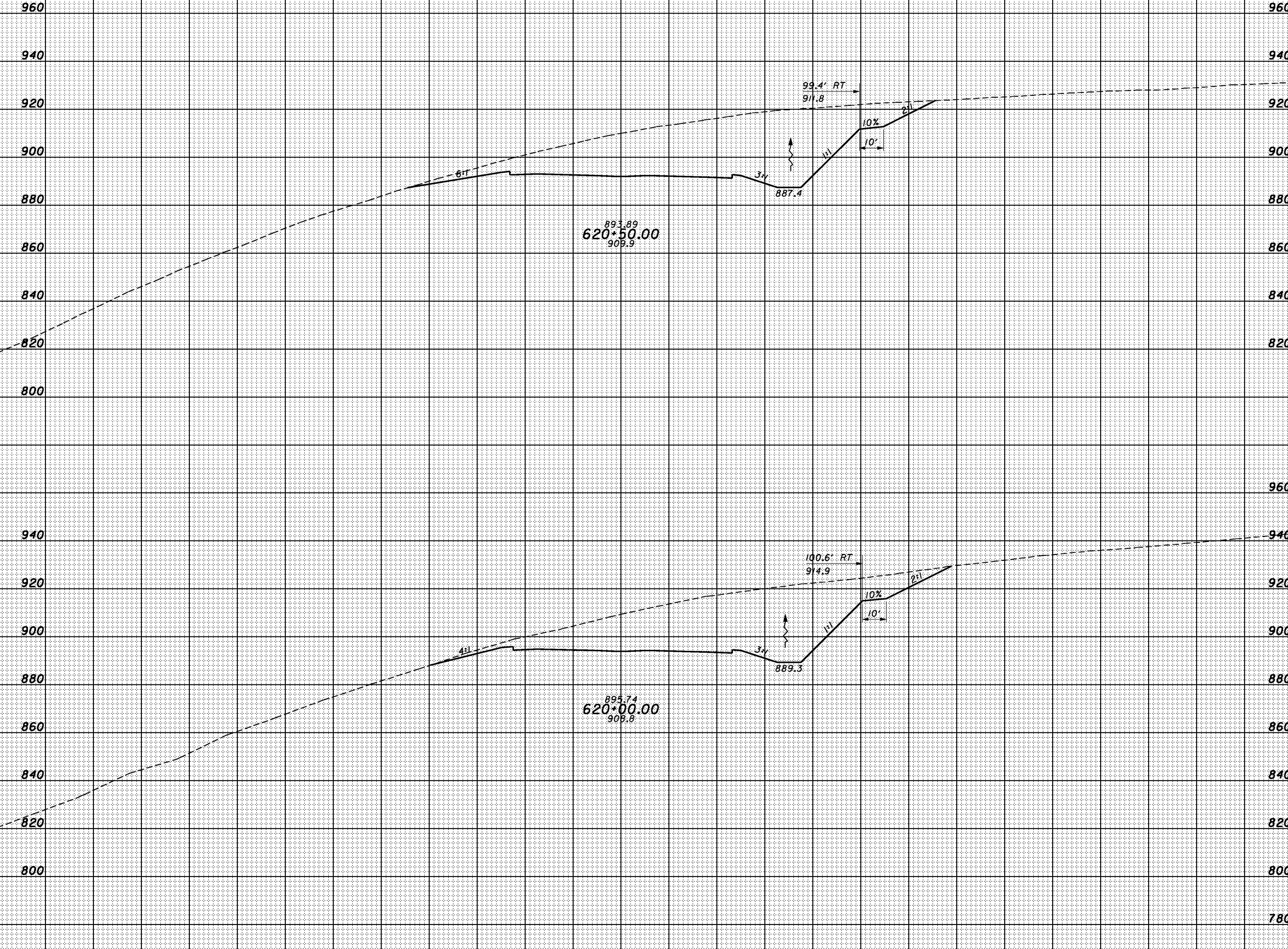
HW 21' OR 2.2
336.2' LT
E 15' - 787.40
17.0' 15' TYPE F,
707.05 TYPE C
@ 1.00%
21.2' BEND
319.2' LT
E 15' - 787.57

320 300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100

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SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	±	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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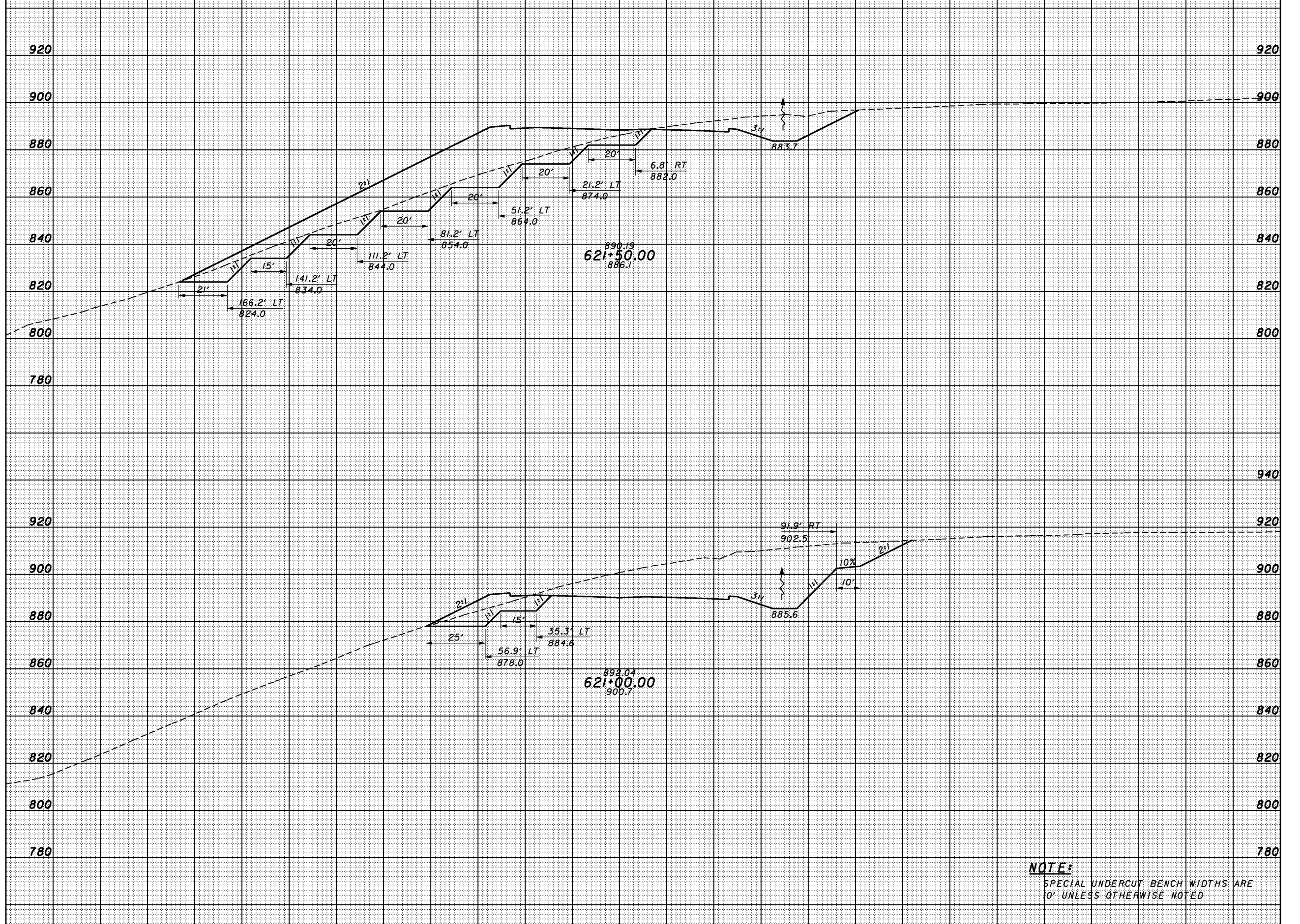
CROSS SECTIONS
 SR823 - STA. 620+00.00 TO STA. 620+50.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:51:32 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.c.dgn



NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE 10' UNLESS OTHERWISE NOTED

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 621+00.00 TO STA. 621+50.00

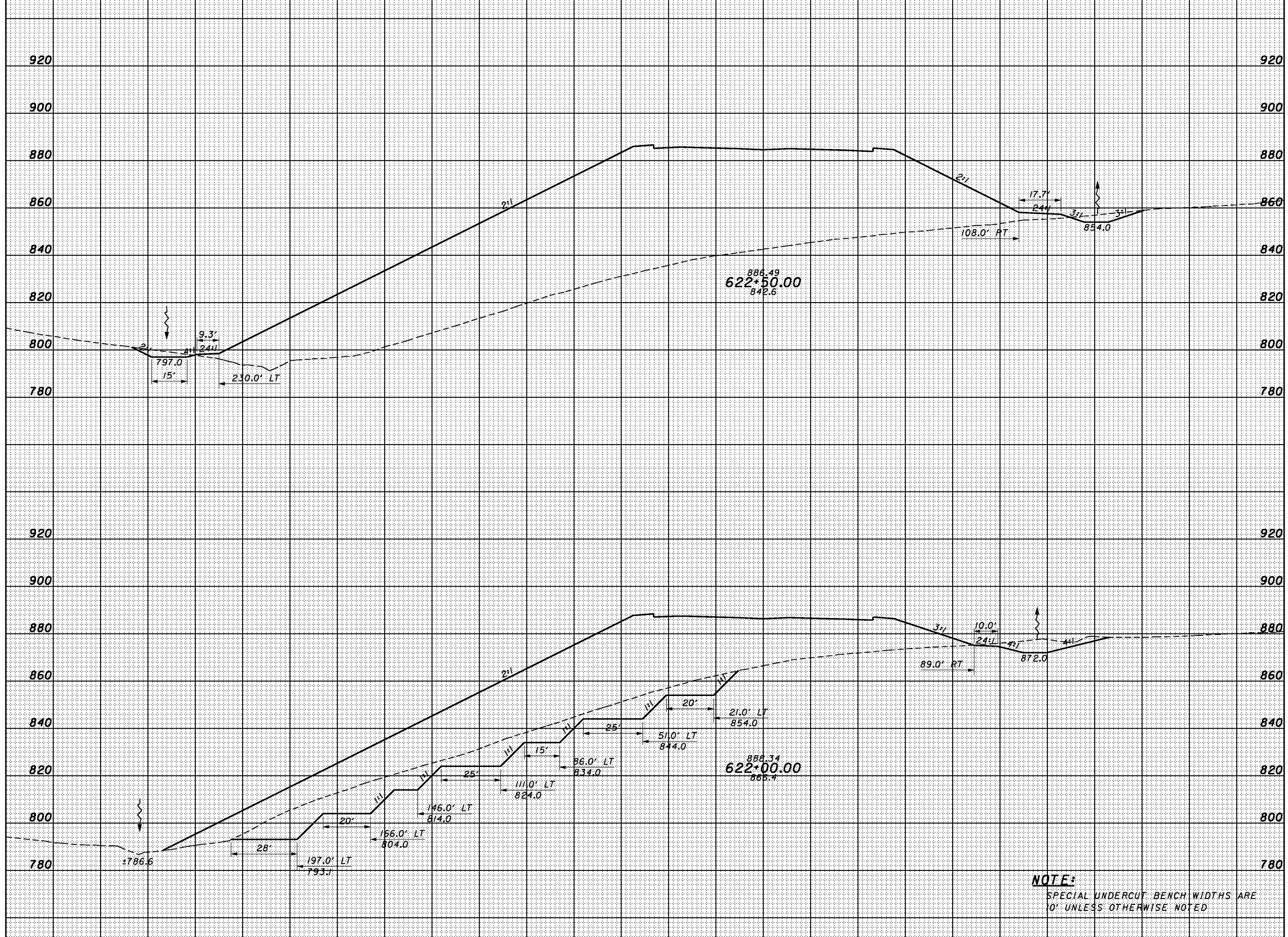
SCI-823-10.13

200

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:55:33 PM 1/28/2008 g:\c003\0064\road\phase 2\79977xs_sr823.c.dgn



SHEET TOTAL	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 622+00.00 TO STA. 622+50.00

SCI-823-10.13

3:55:35 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.c.dgn

SEEDING	
END WIDTH	SO. YDS.

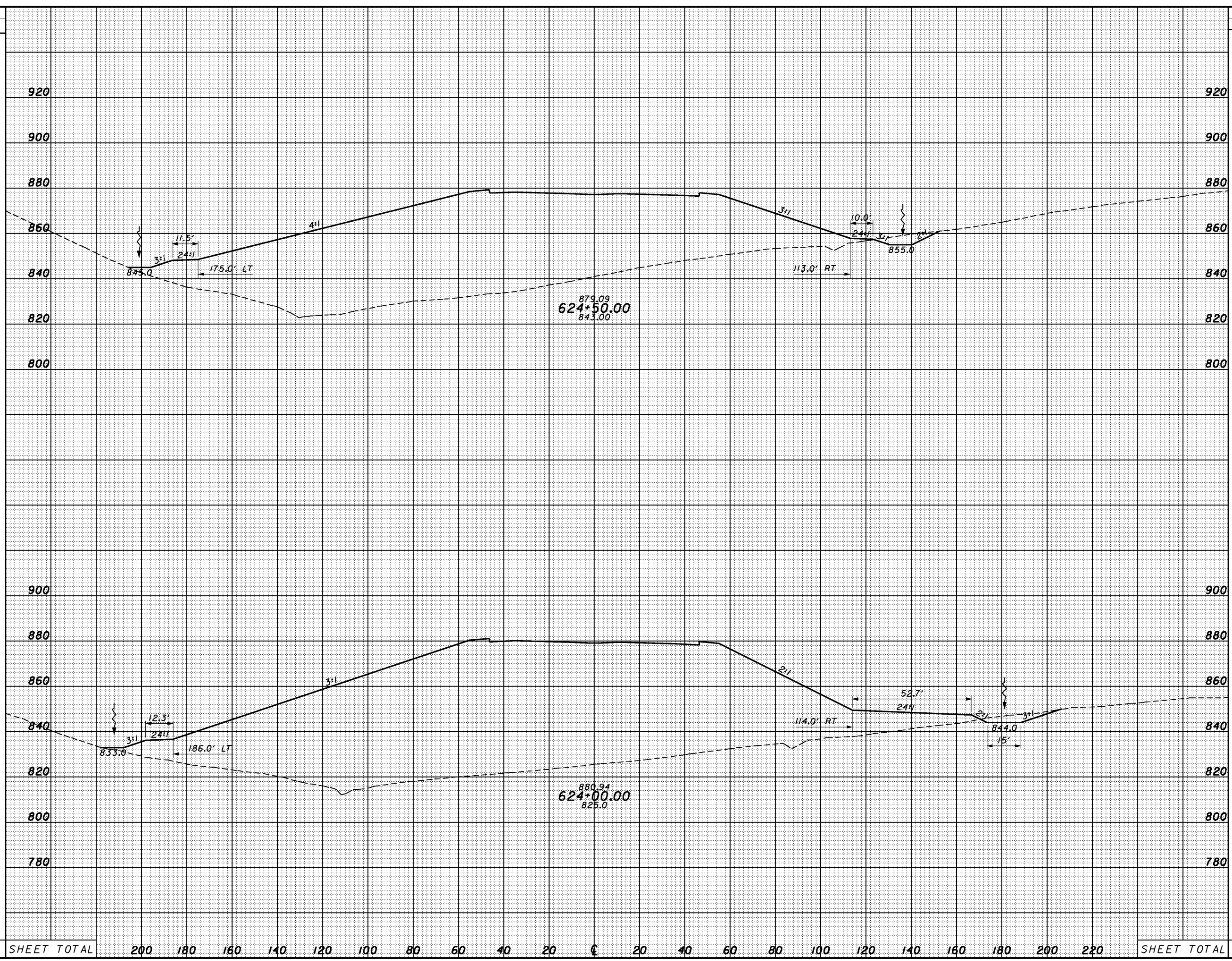
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED

CROSS SECTIONS
SR823 - STA. 624+00.00 TO STA. 624+50.00

SCI-823-10.13

203

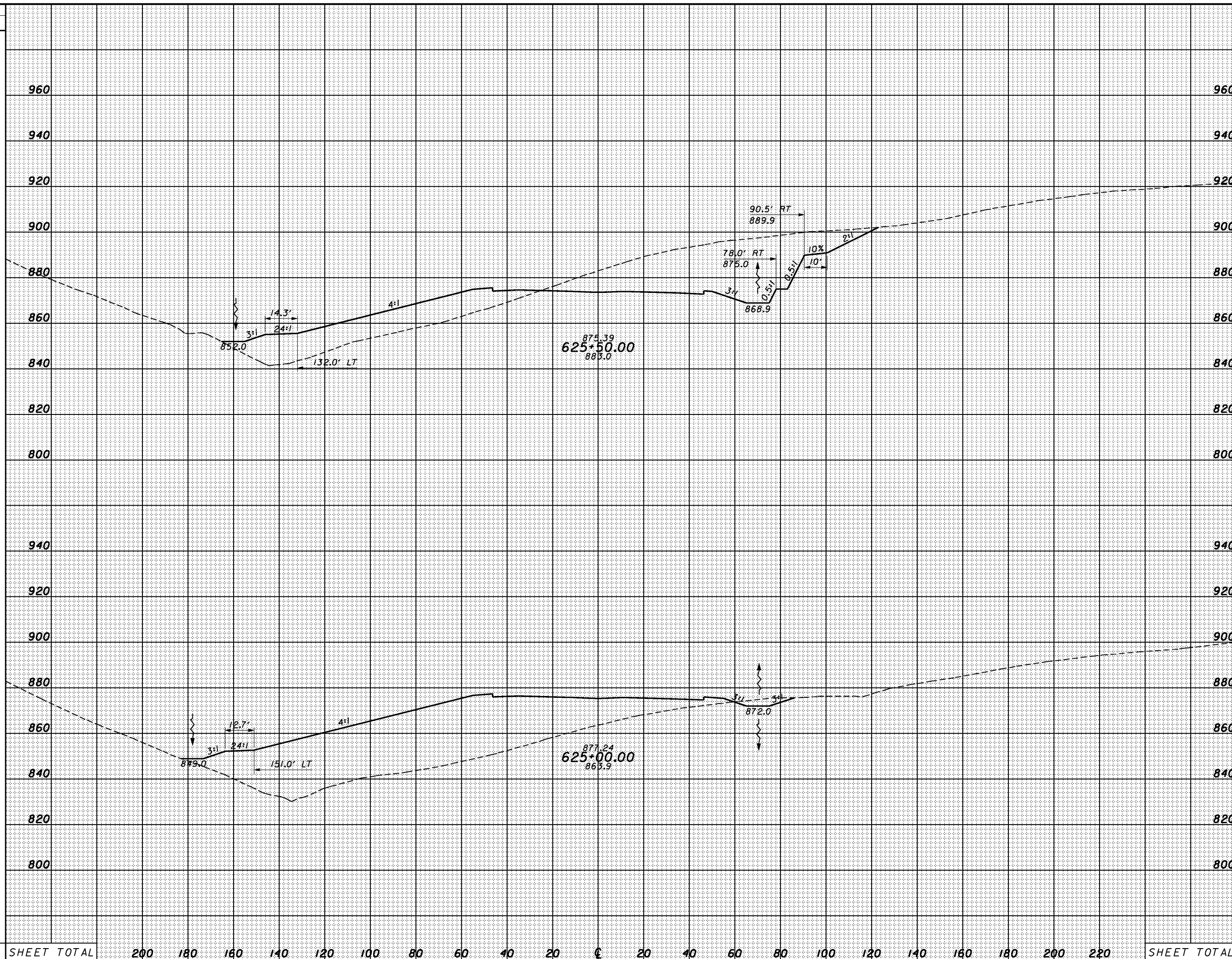


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

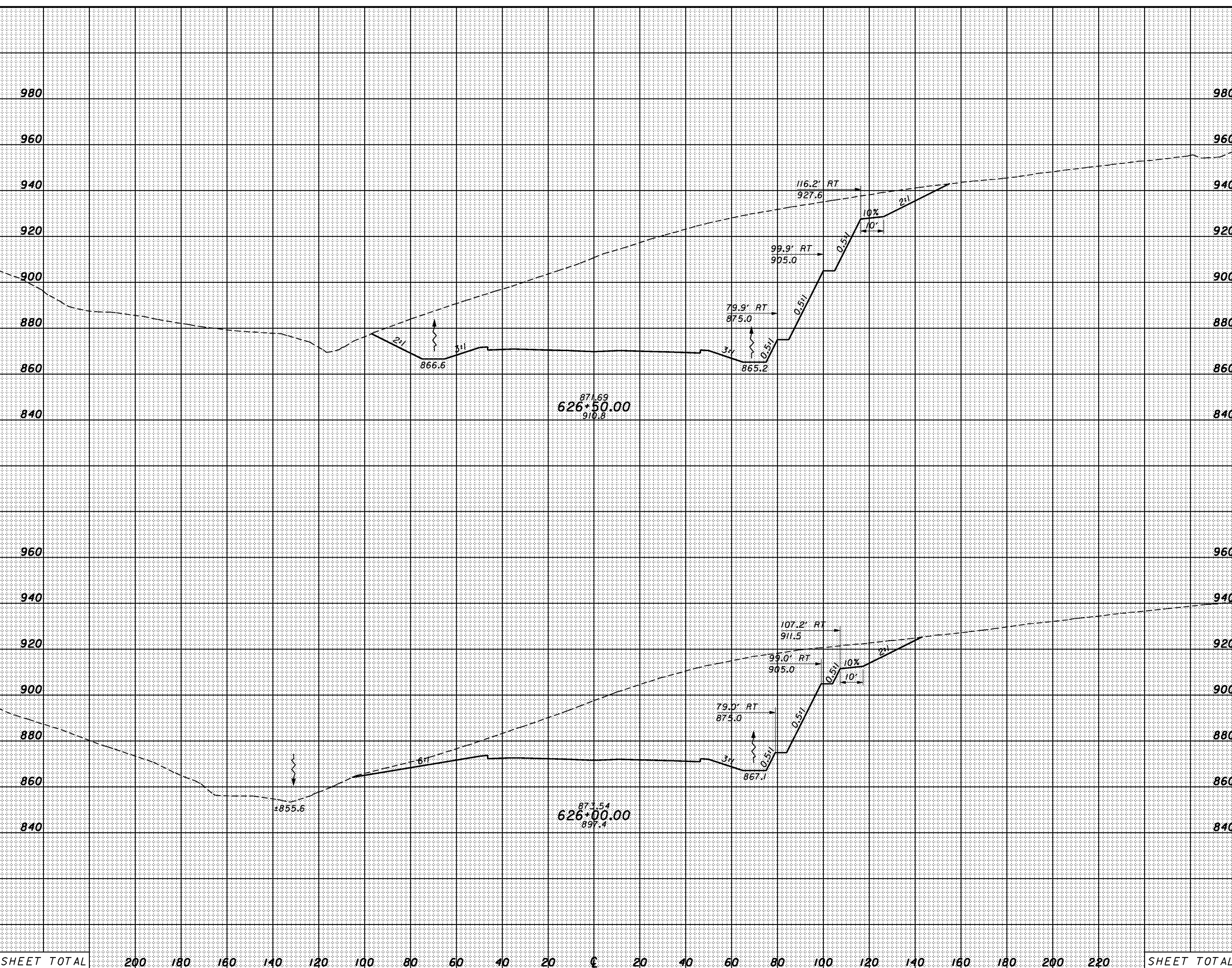
CROSS SECTIONS
SR823 - STA. 625+00.00 TO STA. 625+50.00

SCI-823-10.13

3:55:37 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_sr823.c.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	±	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 626+00.00 TO STA. 626+50.00

SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

1000
980
960
940
920
900
880
860
840
820
980
960
940
920
900
880
860
840

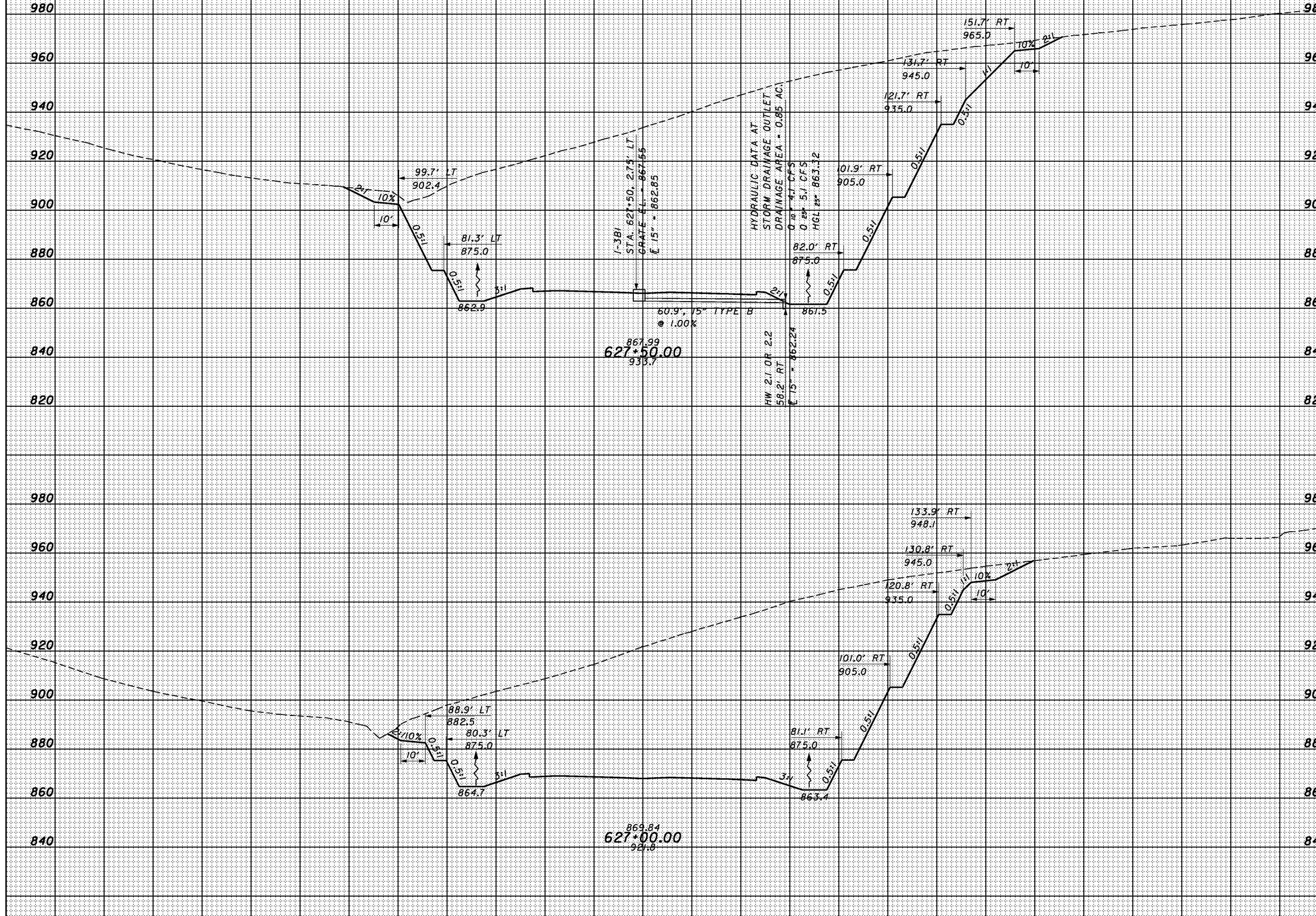
1000
980
960
940
920
900
880
860
840
980
960
940
920
900
880
860
840

SHEET TOTAL

SHEET TOTAL

3:55:38 PM 1/28/2008 g:\c003\0064\road\phase 2\79977xs_sr823.c.dgn

200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220

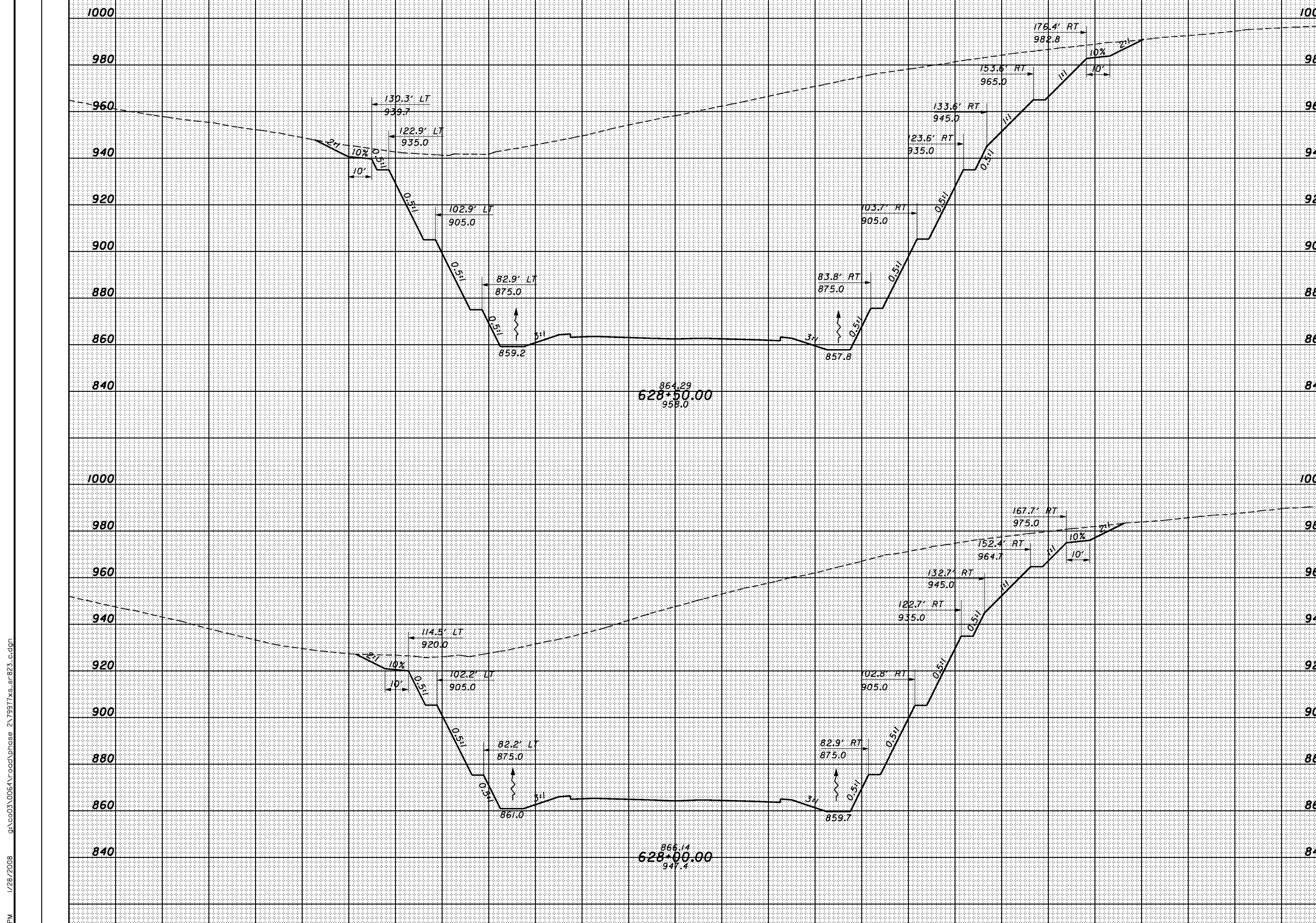


CROSS SECTIONS
SR823 - STA. 627+00.00 TO STA. 627+50.00

SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



CROSS SECTIONS
SR823 - STA. 628+00.00 TO STA. 628+50.00

SCI-823-10.13

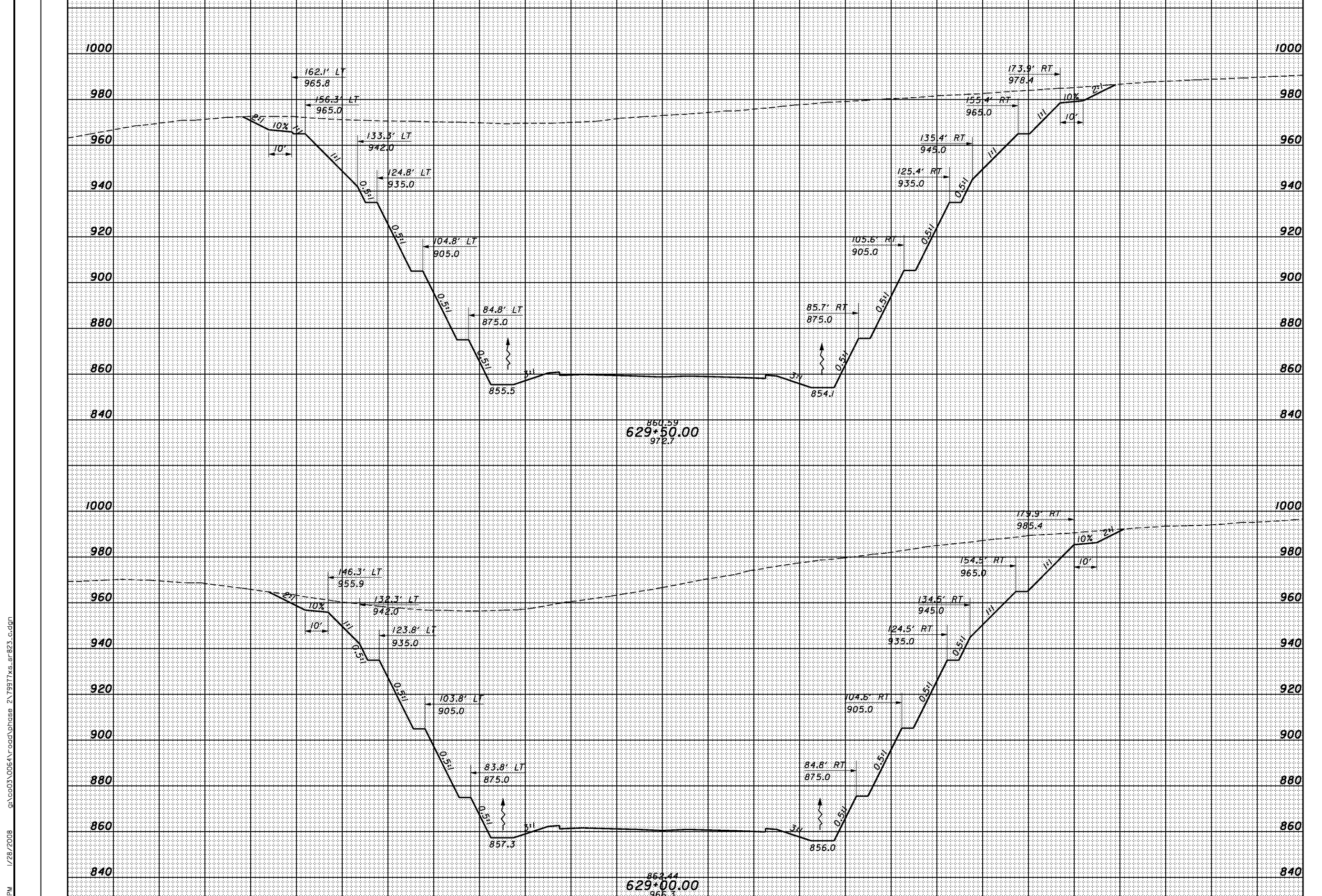
207

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SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 629+00.00 TO STA. 629+50.00

SCI-823-10.13

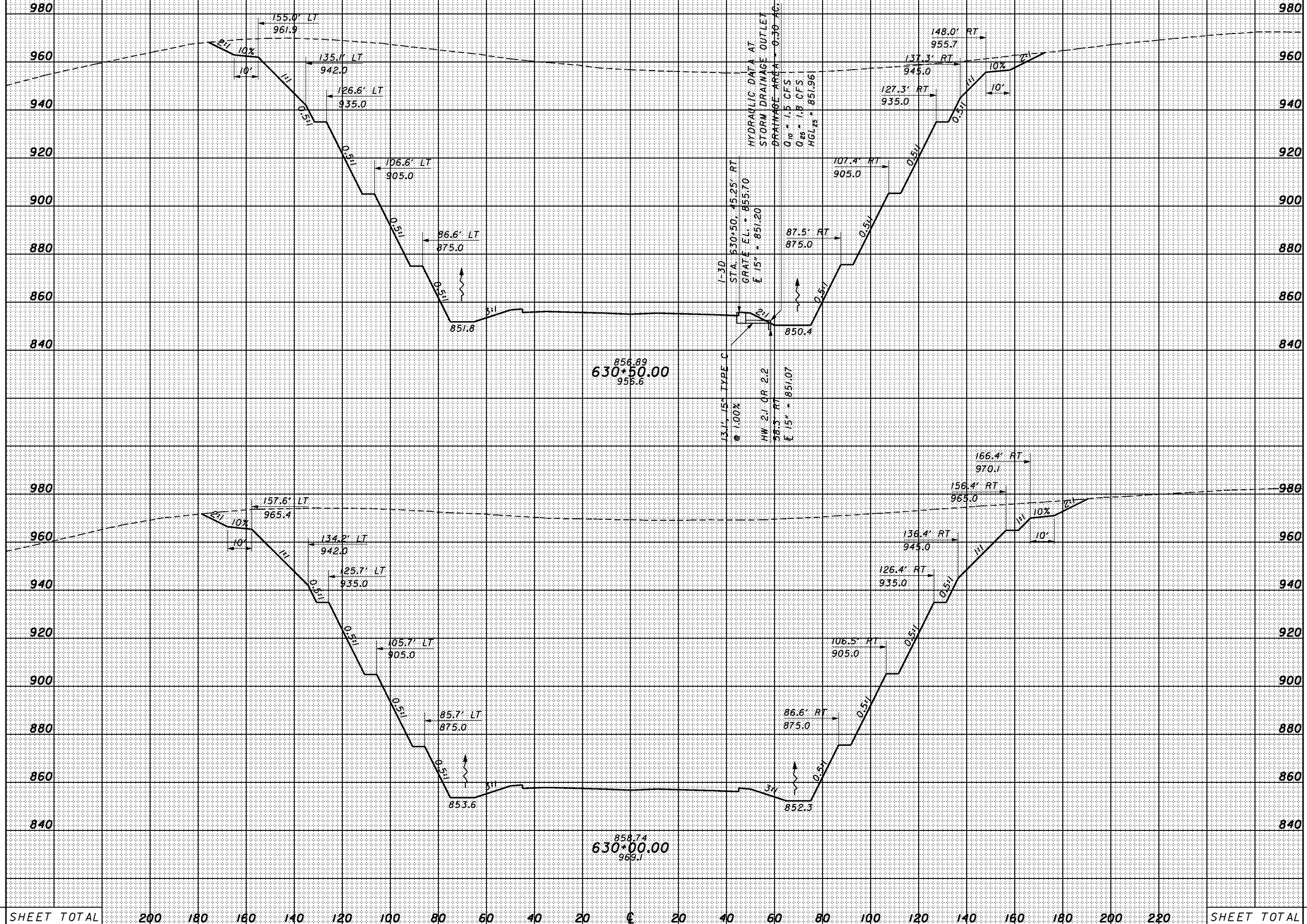
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3:54:11 PM 1/28/2008 g:\c003\0064\road\phase 2\79977xs_sr823.c.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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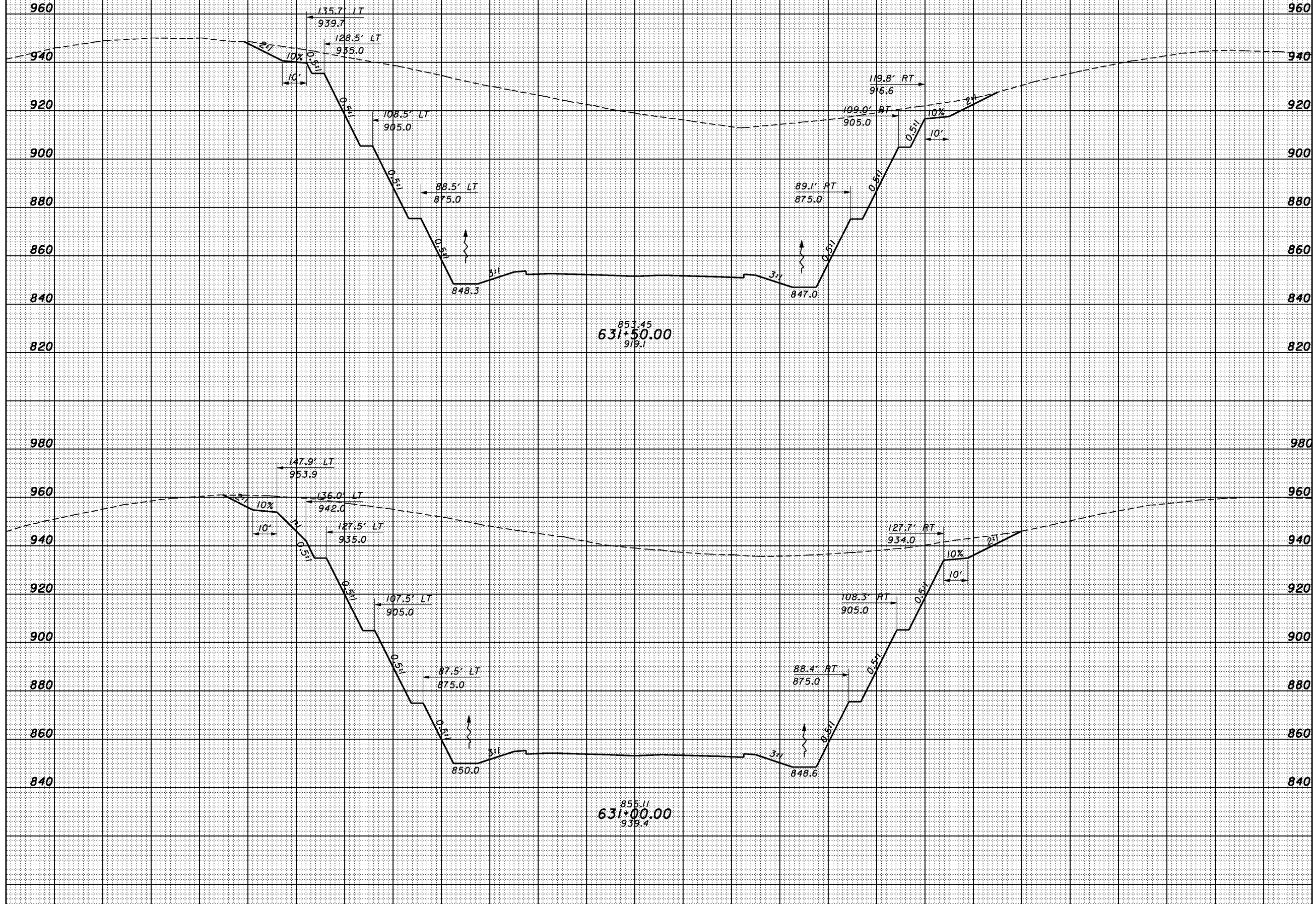
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
-------------	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-------------

CROSS SECTIONS
SR823 - STA. 630+00.00 TO STA. 630+50.00

SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
 SR823 - STA. 631+00.00 TO STA. 631+50.00

SCI-823-10.13

3:54:42 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.c.dgn

3:54:43 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.c.dgn

SEEDING	
END WIDTH	SO. YDS.

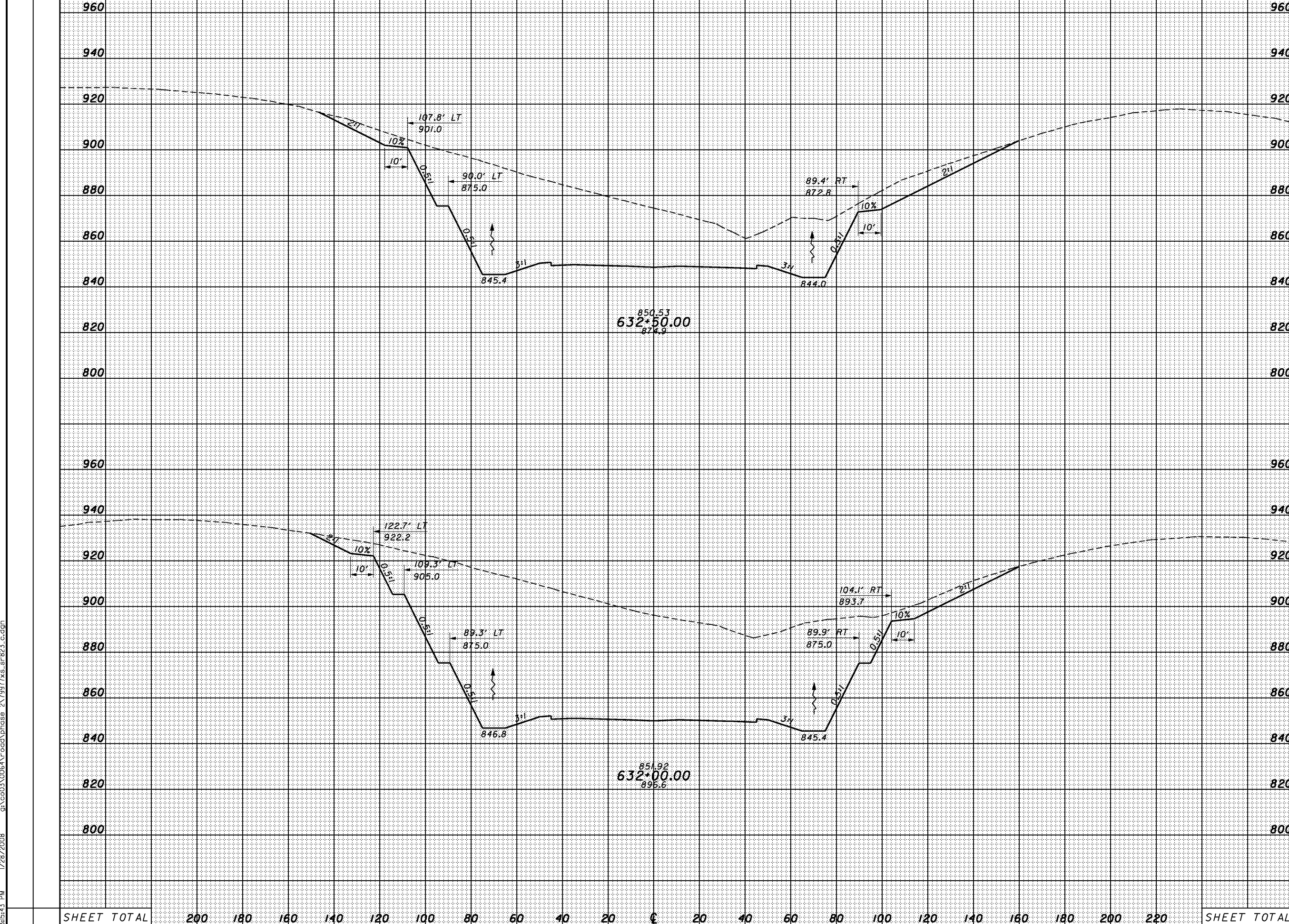
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED

CROSS SECTIONS
SR823 - STA. 632+00.00 TO STA. 632+50.00

SCI-823-10.13

211



960	960
940	940
920	920
900	900
880	880
860	860
840	840
820	820
800	800
960	960
940	940
920	920
900	900
880	880
860	860
840	840
820	820
800	800
SHEET TOTAL	SHEET TOTAL

3:54:14 PM 1/28/2008 g:\co03\0064\road\phase 2\79917xs_sr823.c.dgn

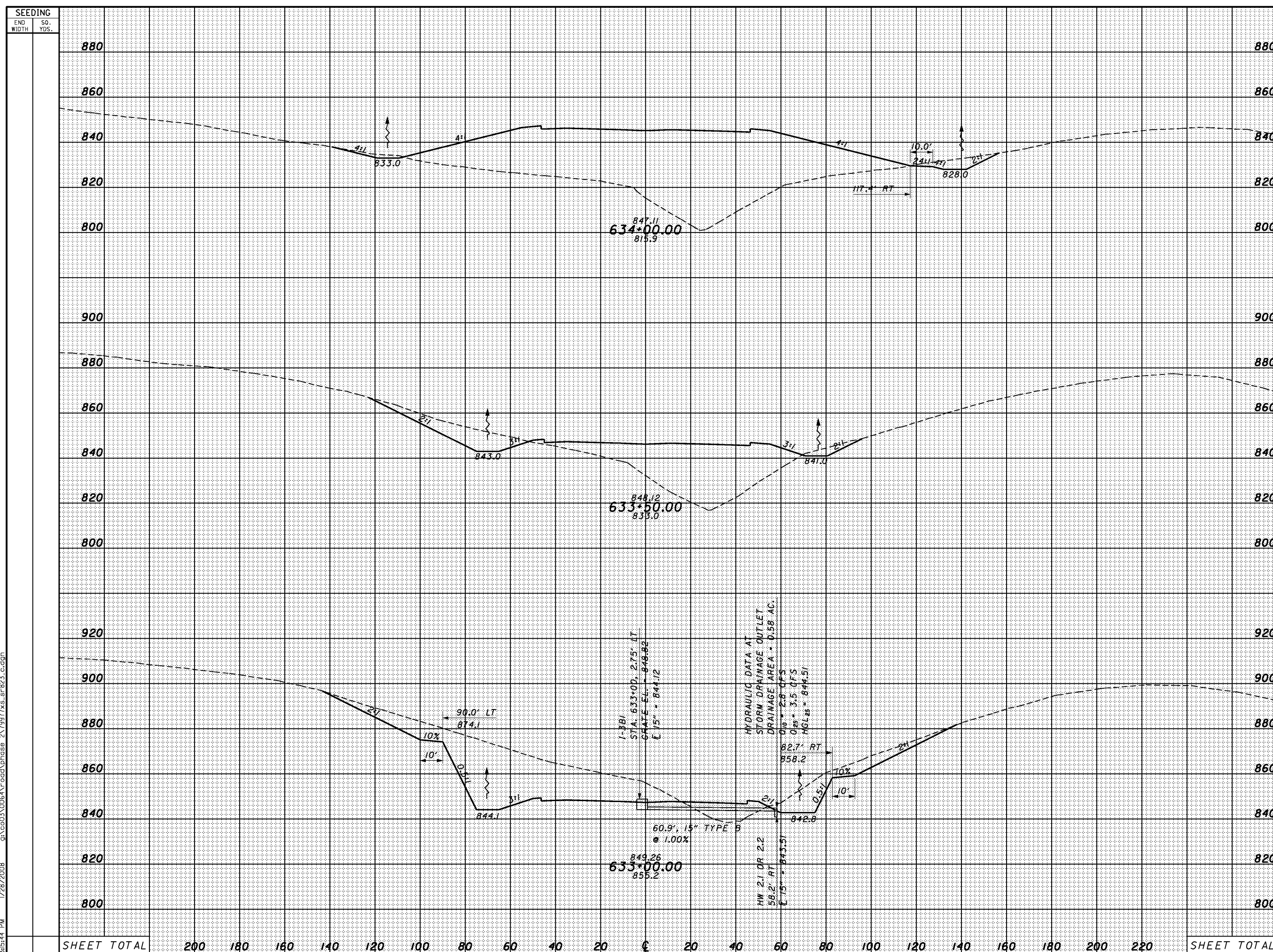
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 633+00.00 TO STA. 634+00.00

SCI-823-10.13



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3:55:45 PM 1/28/2008 g:\c03\0064\road\phase 2\7997\ss_sr823.c.dgn

SEEDING	
END WIDTH	SO. YDS.

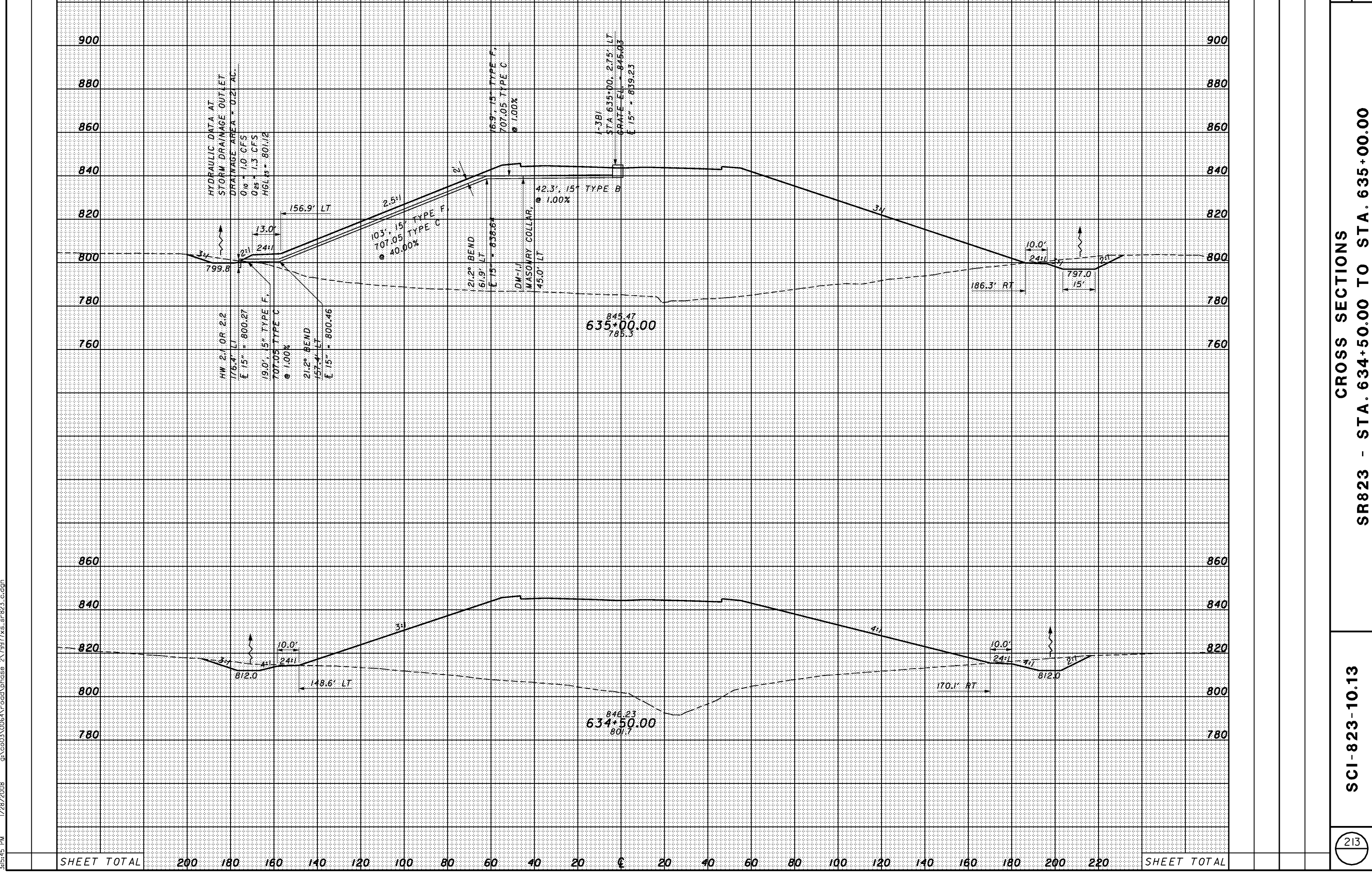
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED

CROSS SECTIONS
SR823 - STA. 634+50.00 TO STA. 635+00.00

SCI-823-10.13

213

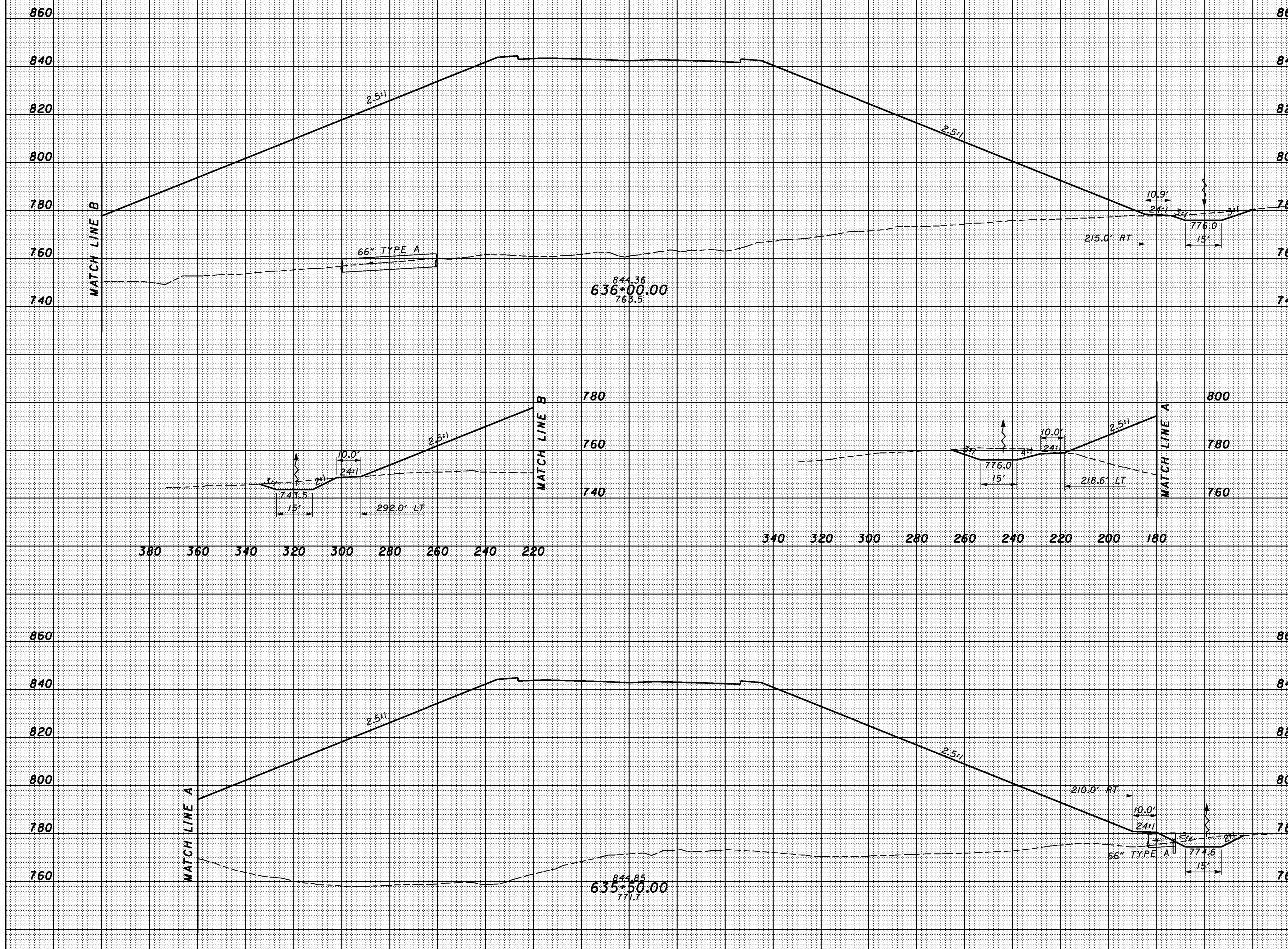


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:56:46 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_sr823.c.dgn



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
-------------	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-------------

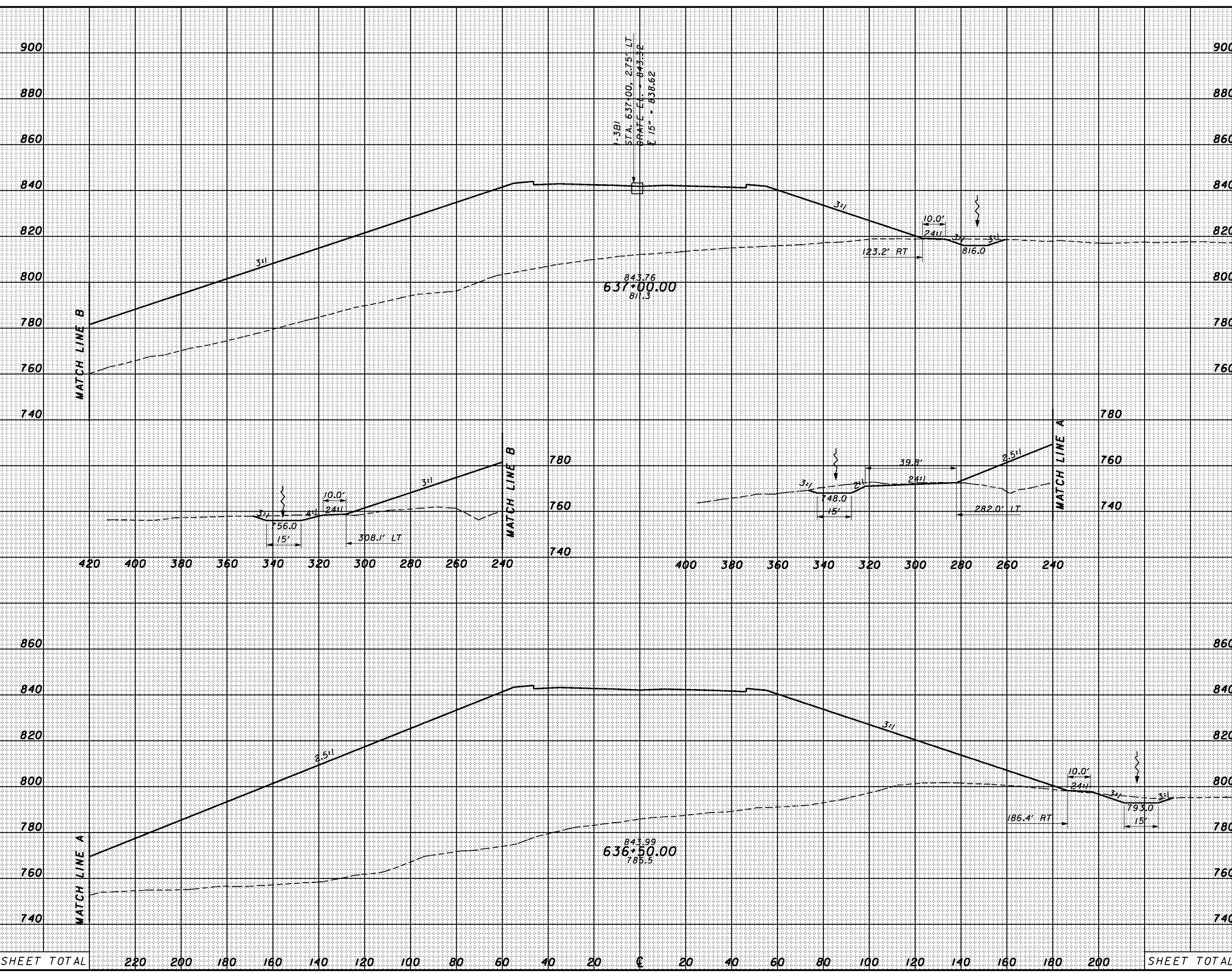
CROSS SECTIONS
SR823 - STA. 635+50.00 TO STA. 636+00.00

SCI-823-10.13

3:54:47 PM 1/28/2008 g:\c003\0064\road\phase 2\79917xs_sr823.c.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	SHEET TOTAL

CROSS SECTIONS
 SR823 - STA. 636+50.00 TO STA. 637+00.00

SCI-823-10.13

3:56:48 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_sr823.c.dgn

SEEDING	
END WIDTH	SO. YDS.

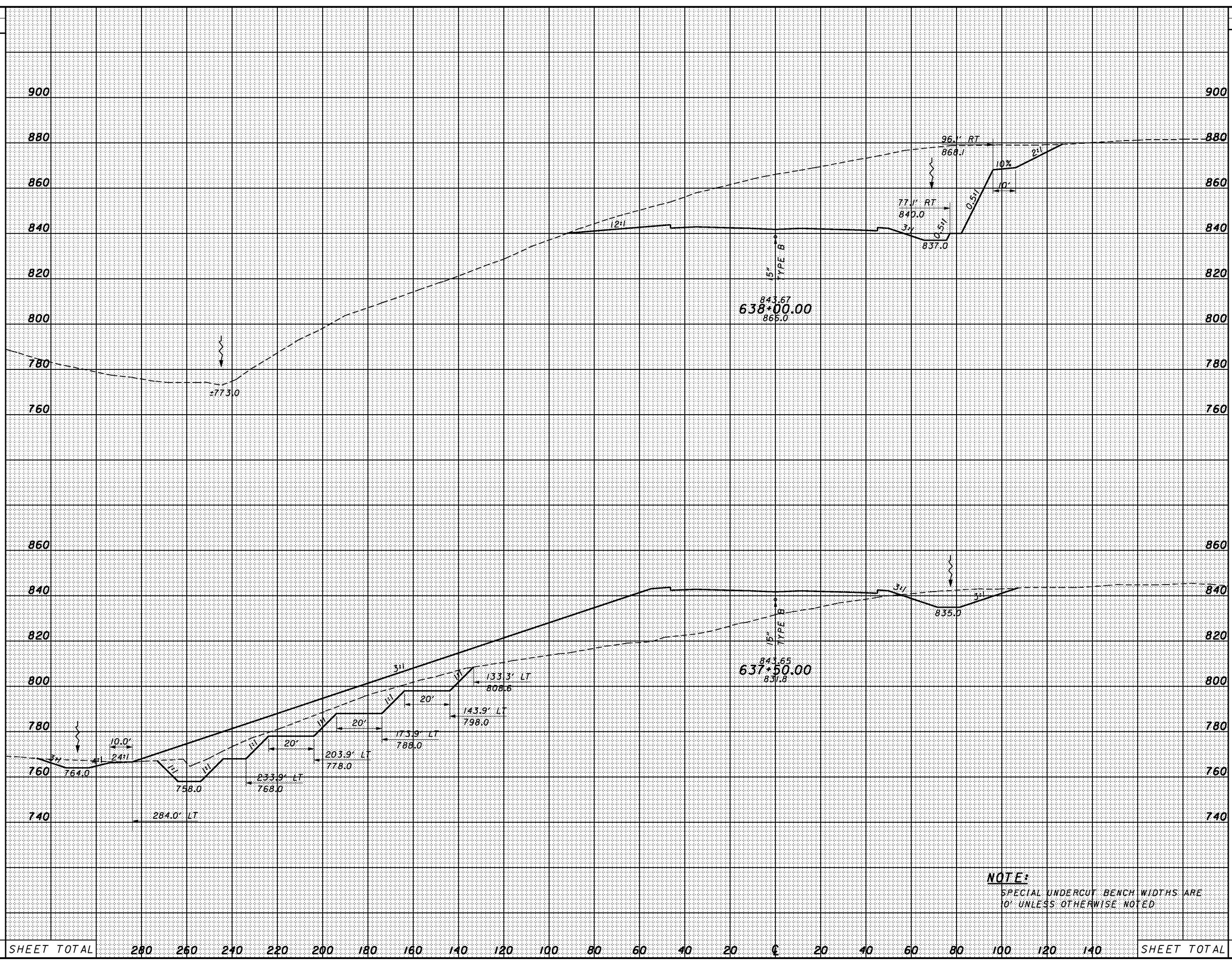
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED

CROSS SECTIONS
SR823 - STA. 637+50.00 TO STA. 638+00.00

SCI-823-10.13

216



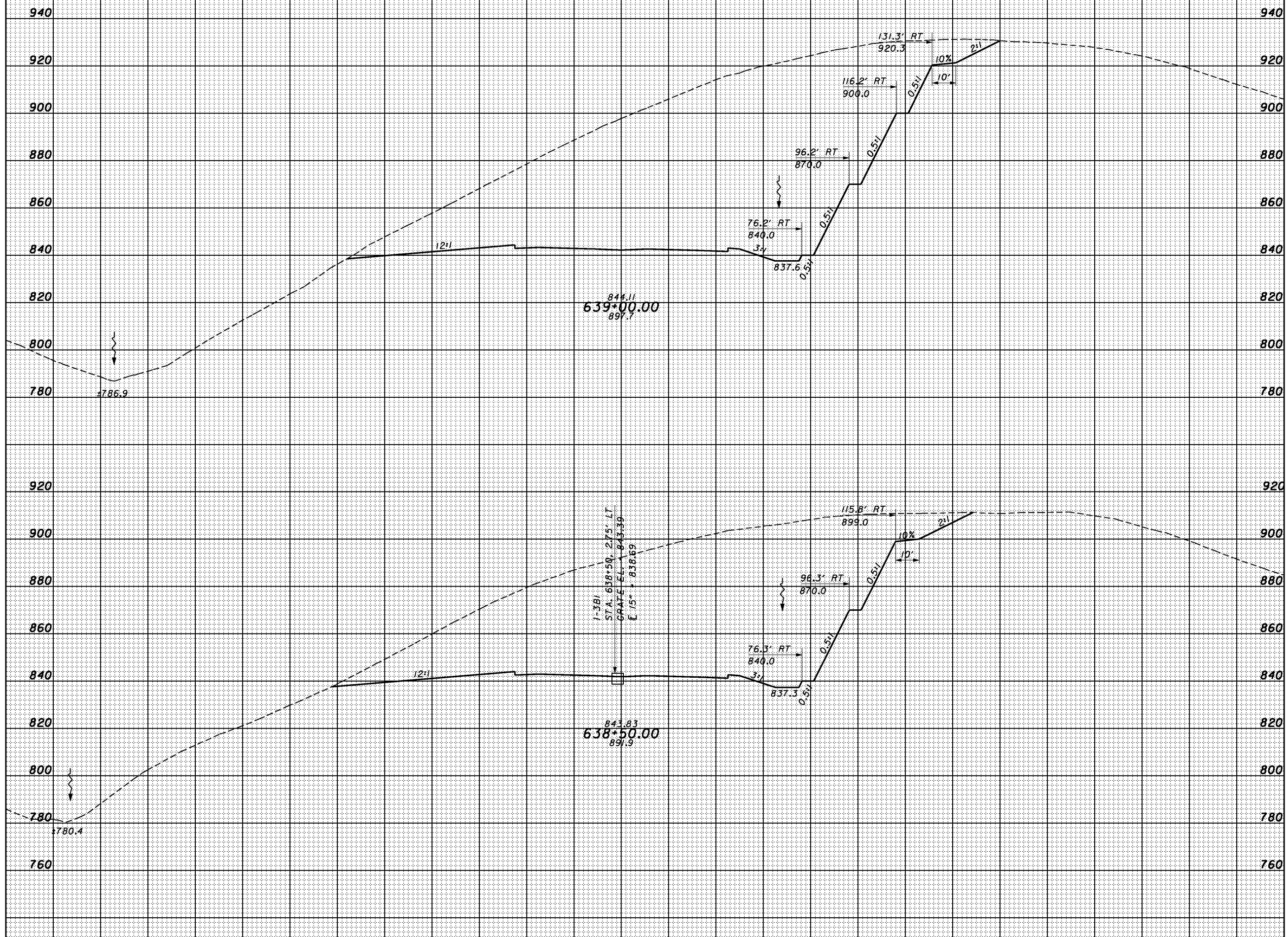
NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE
10' UNLESS OTHERWISE NOTED

SHEET TOTAL	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	SHEET TOTAL
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3:56:49 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.c.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



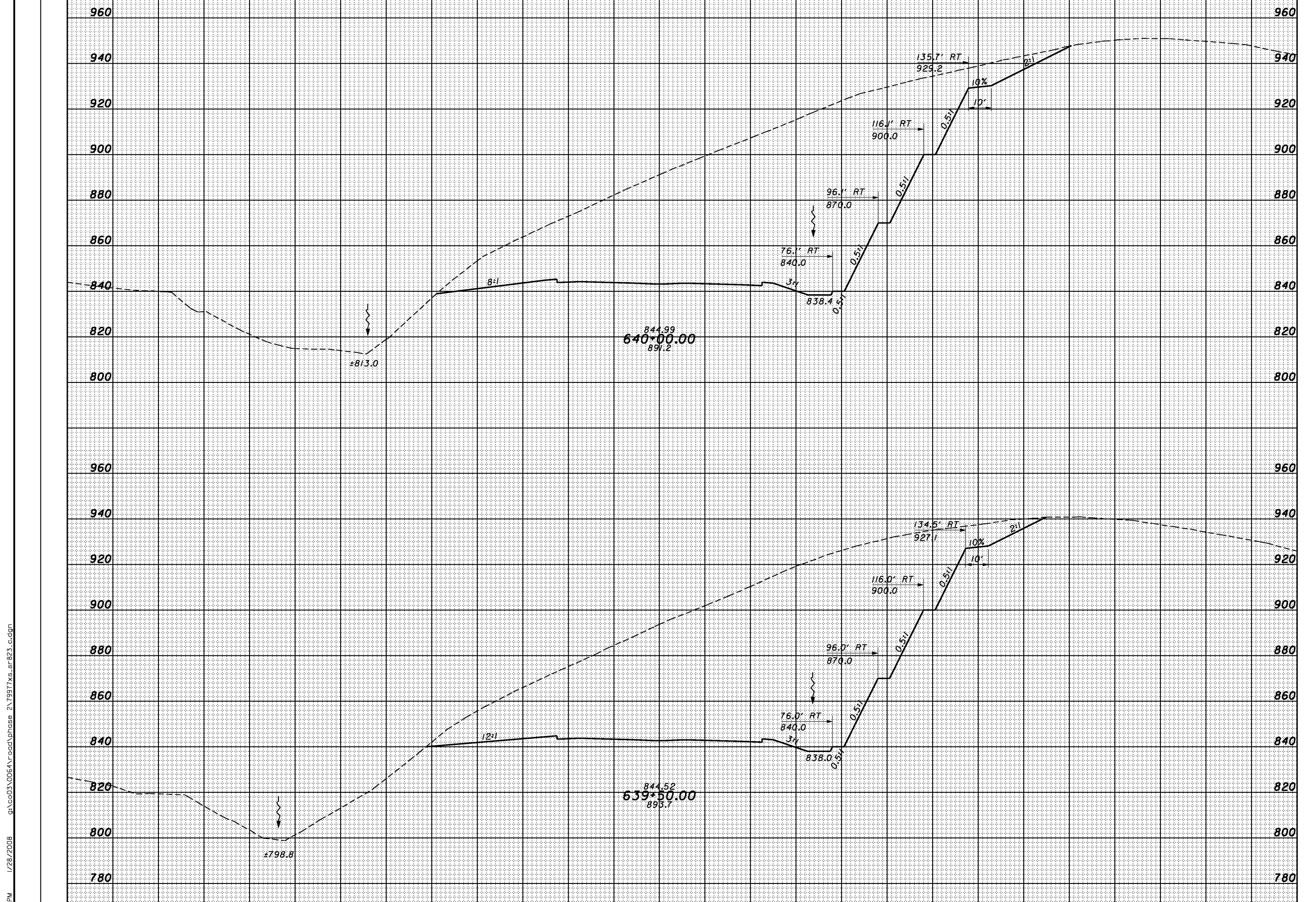
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 638+50.00 TO STA. 639+00.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 639+50.00 TO STA. 640+00.00

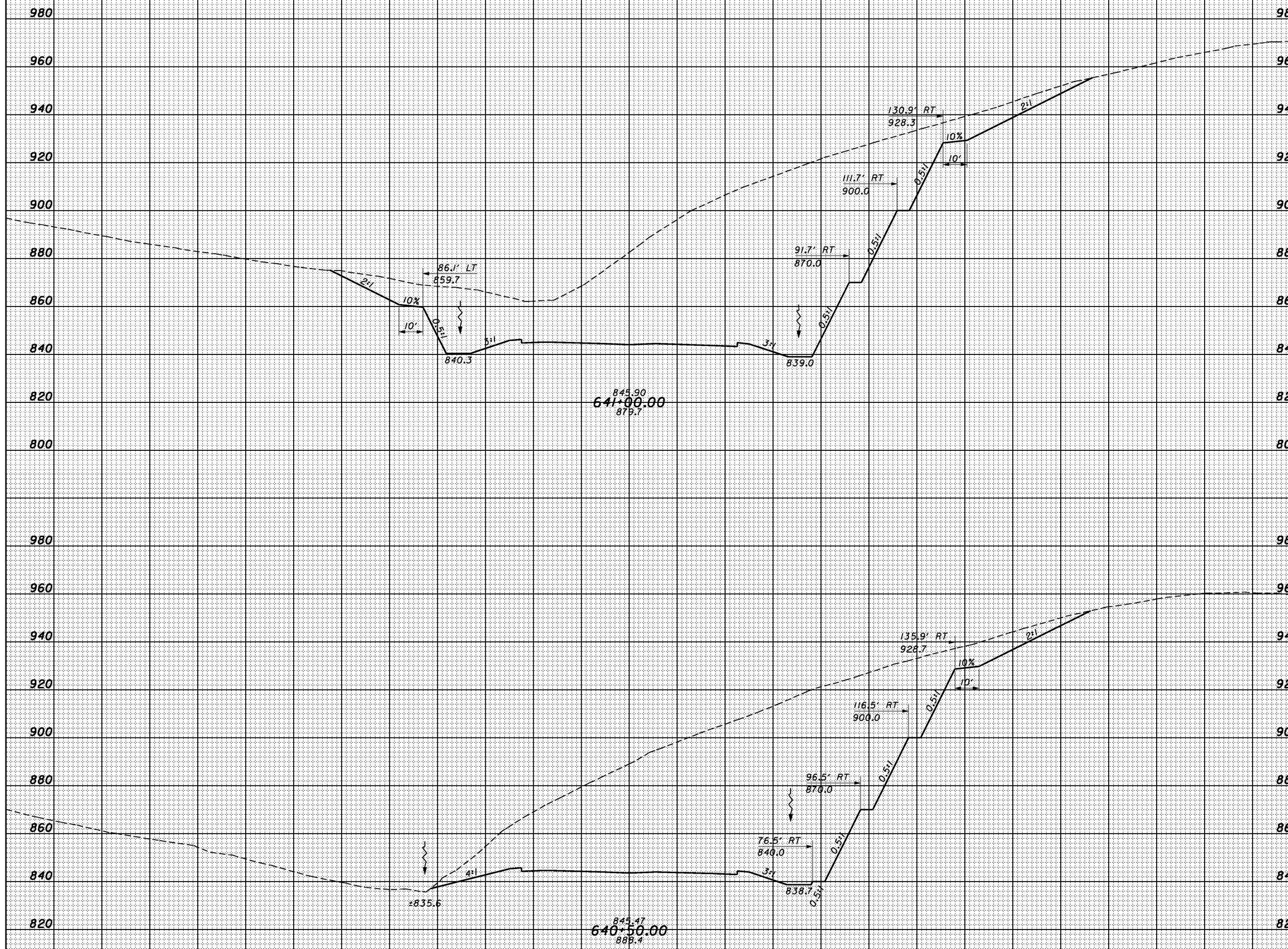
SCI-823-10.13

3:55:50 PM 1/28/2008 g:\c03\0064\road\phase 2\79917xs_sr823.c.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:55:51 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_sr823.c.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

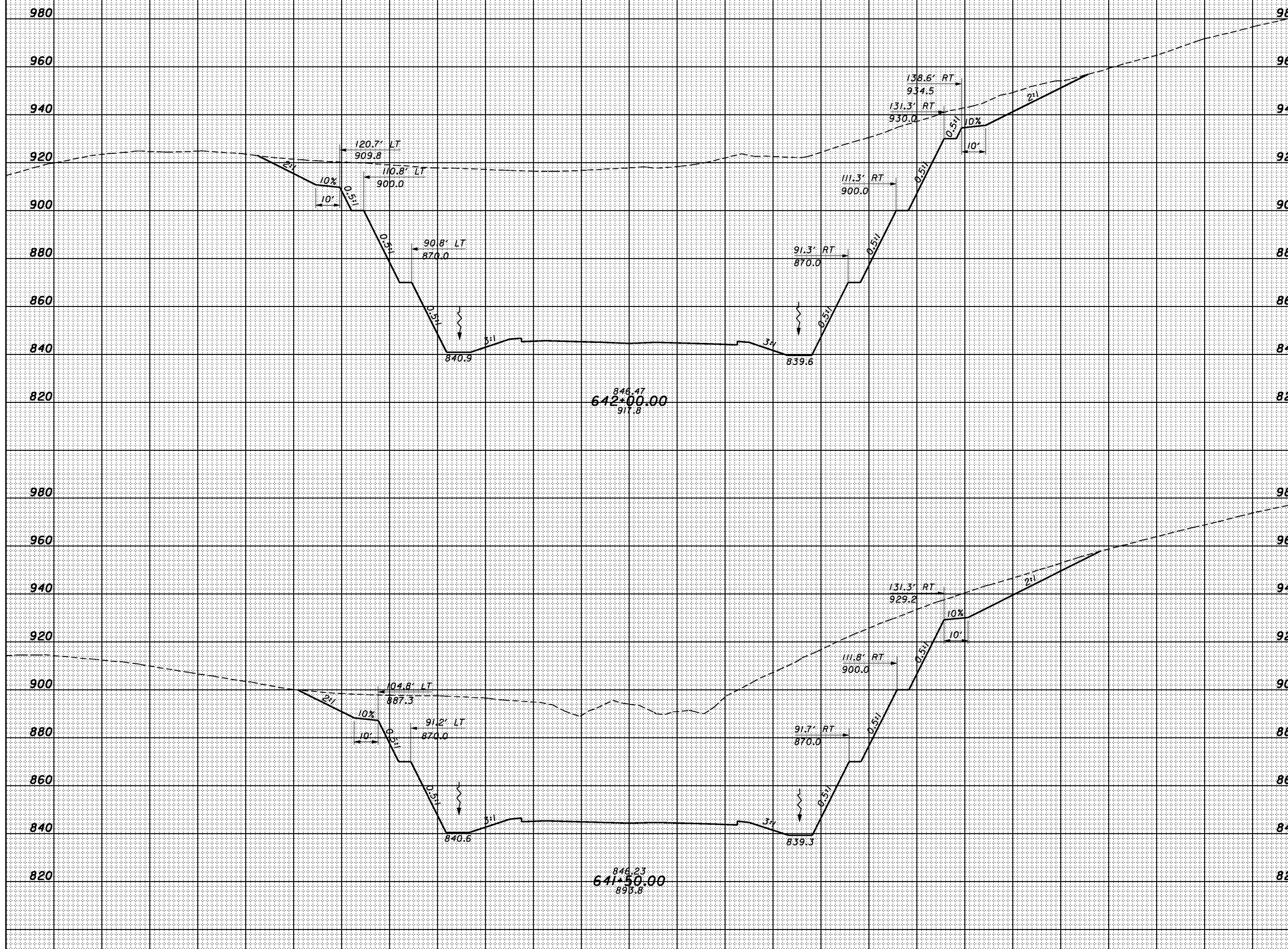
CROSS SECTIONS
SR823 - STA. 640+50.00 TO STA. 641+00.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:55:52 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.c.dgn



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 641+50.00 TO STA. 642+00.00

SCI-823-10.13

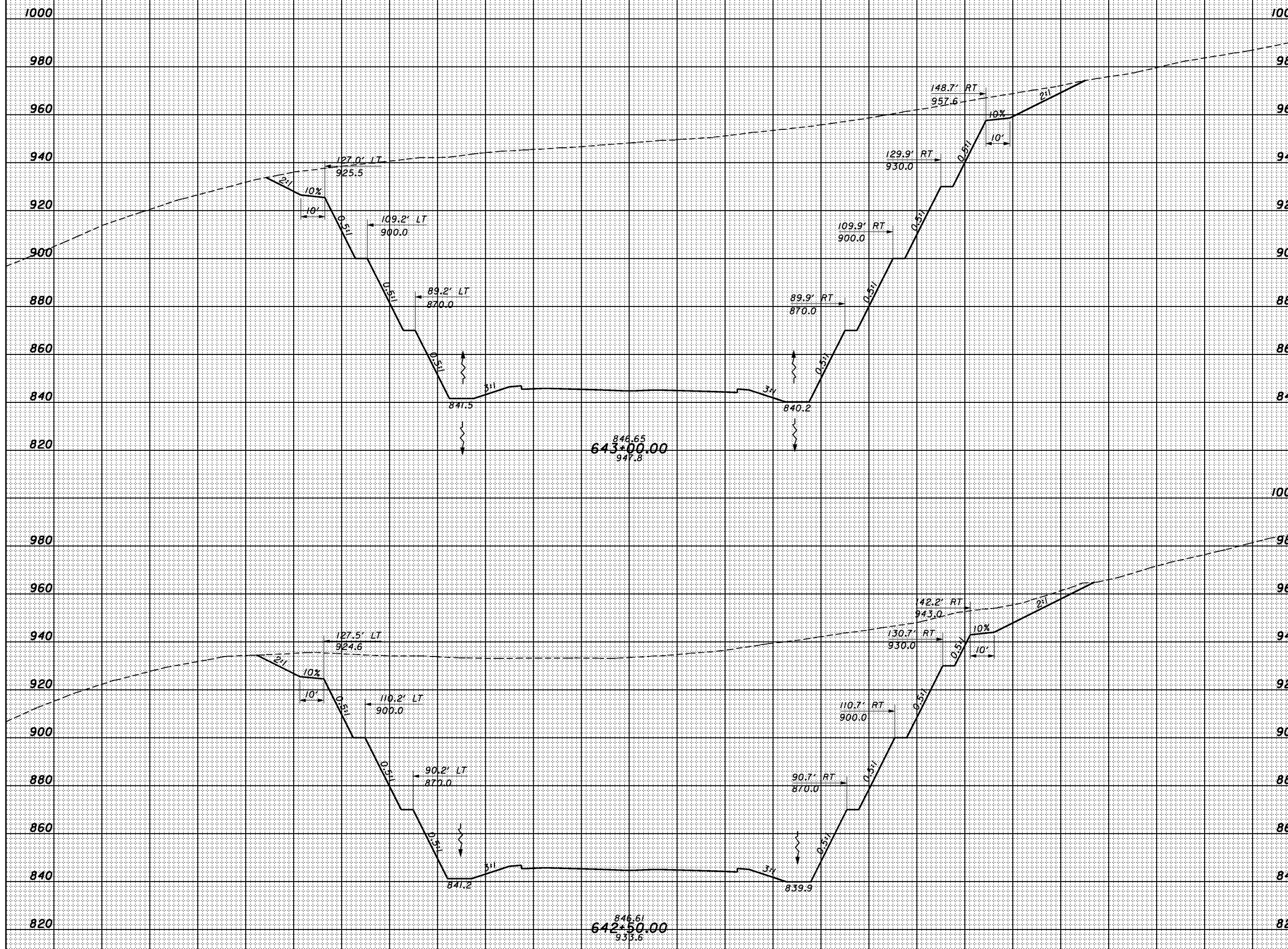
SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

1000
980
960
940
920
900
880
860
840
820

1000
980
960
940
920
900
880
860
840
820

3:55:53 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.c.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 642+50.00 TO STA. 643+00.00

SCI-823-10.13

221

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

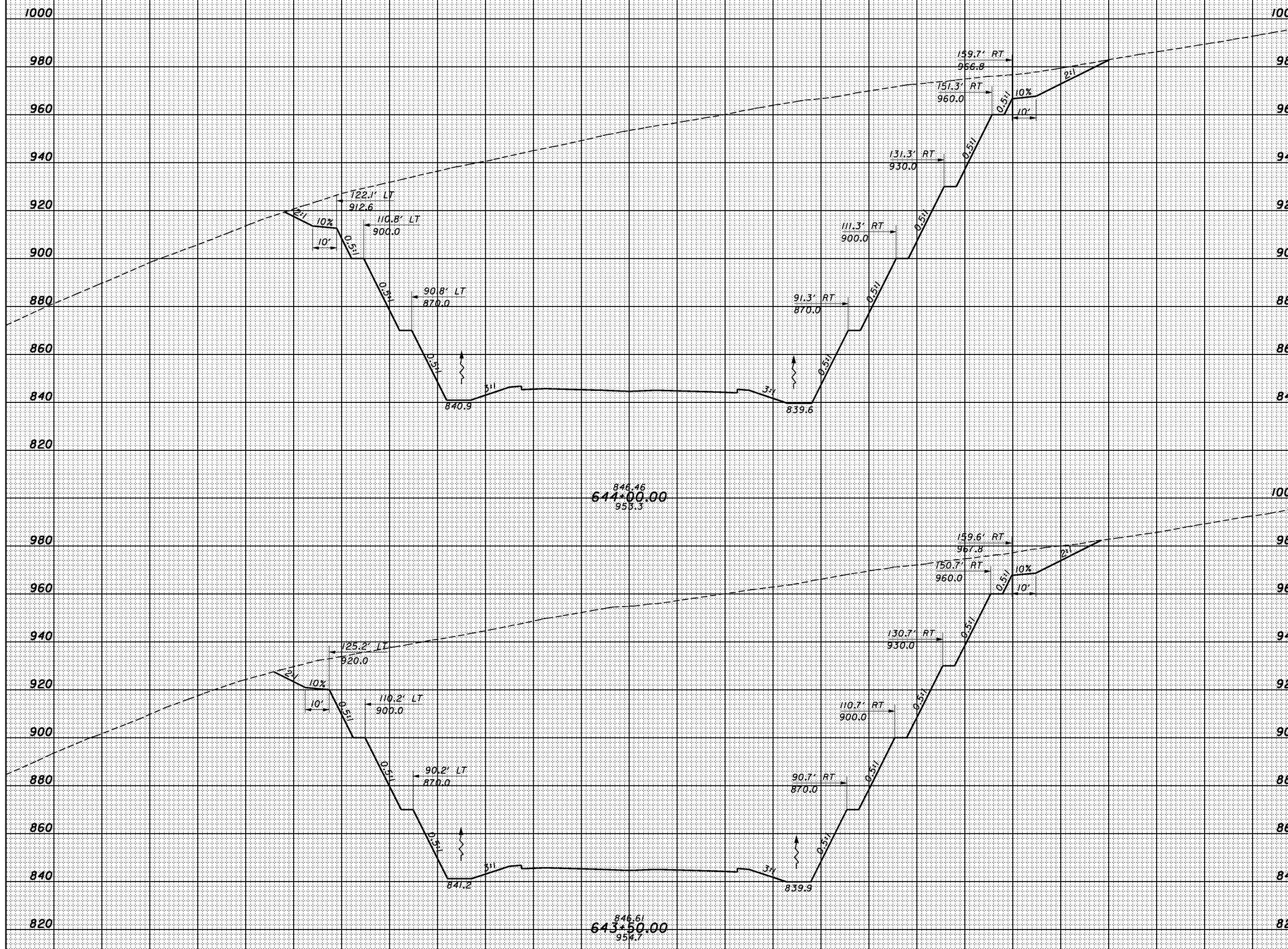
1000
980
960
940
920
900
880
860
840
820

1000
980
960
940
920
900
880
860
840
820

SHEET TOTAL

SHEET TOTAL

3:55:54 PM 1/28/2008 g:\c003\0064\road\phase 2\79977xs_sr823.c.dgn



CROSS SECTIONS
SR823 - STA. 643+50.00 TO STA. 644+00.00

SCI-823-10.13

222

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

1000
980
960
940
920
900
880
860
840
820

1000
980
960
940
920
900
880
860
840
820

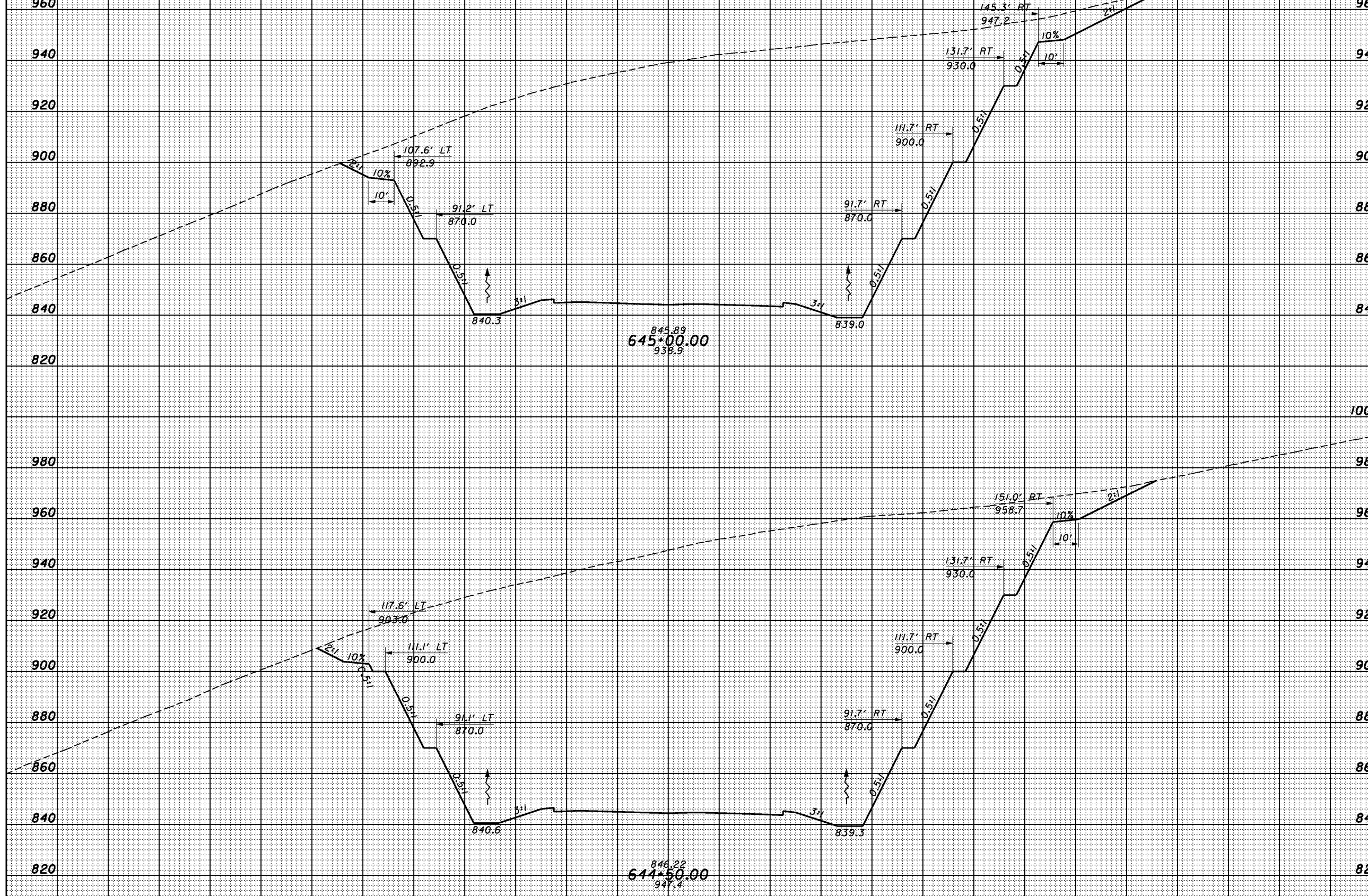
200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220

200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220

SHEET TOTAL

SHEET TOTAL

3:55:55 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.c.dgn



845.89
645+00.00
938.9

846.22
644+50.00
947.4

CROSS SECTIONS
SR823 - STA. 644+50.00 TO STA. 645+00.00

SCI-823-10.13

223

3:55:56 PM 1/28/2008 g:\co03\0064\road\phase 2\79917xs_sr823.c.dgn

SEEDING	
END WIDTH	SO. YDS.

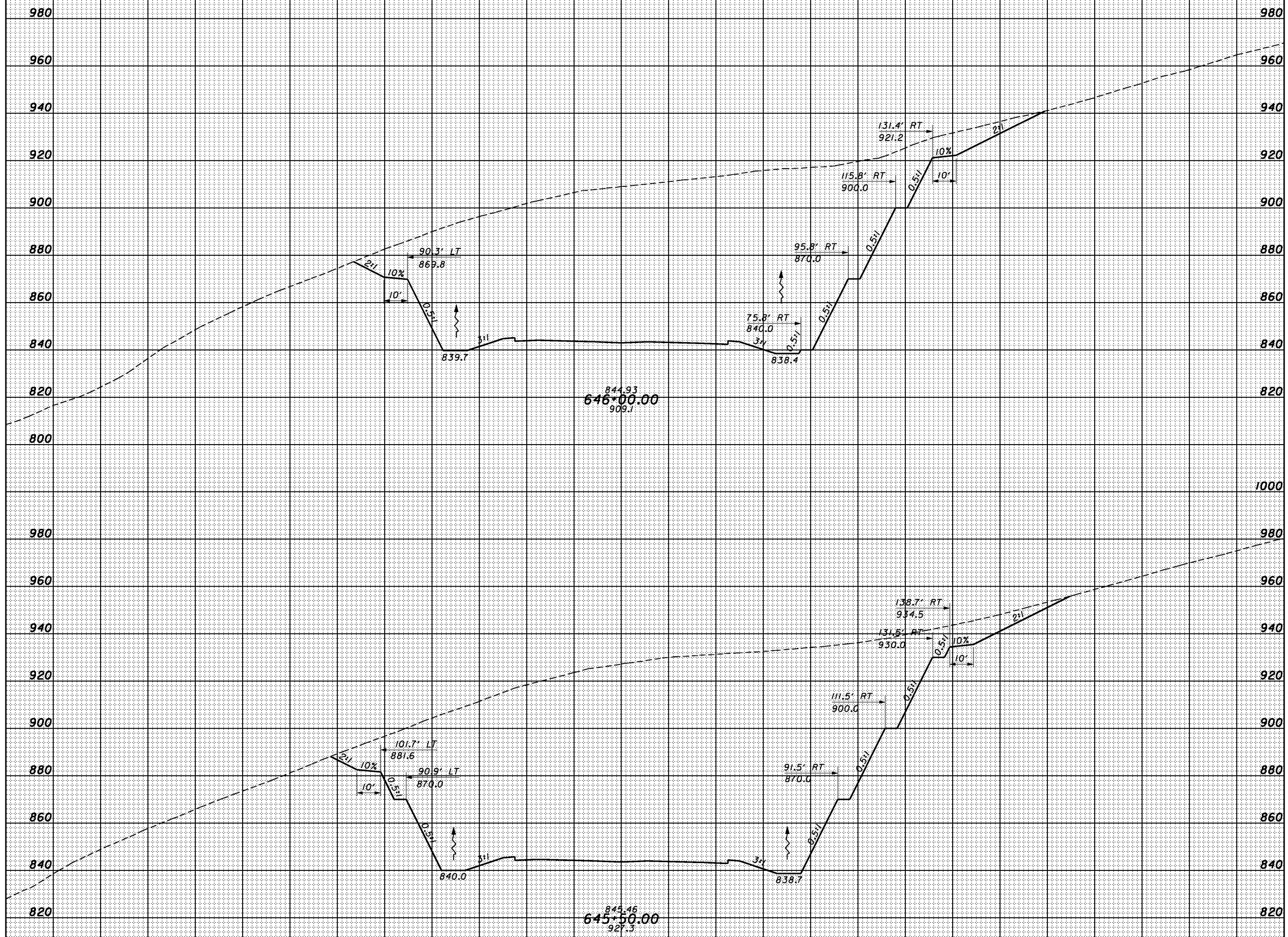
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED

CROSS SECTIONS
SR823 - STA. 645+50.00 TO STA. 646+00.00

SCI-823-10.13

224

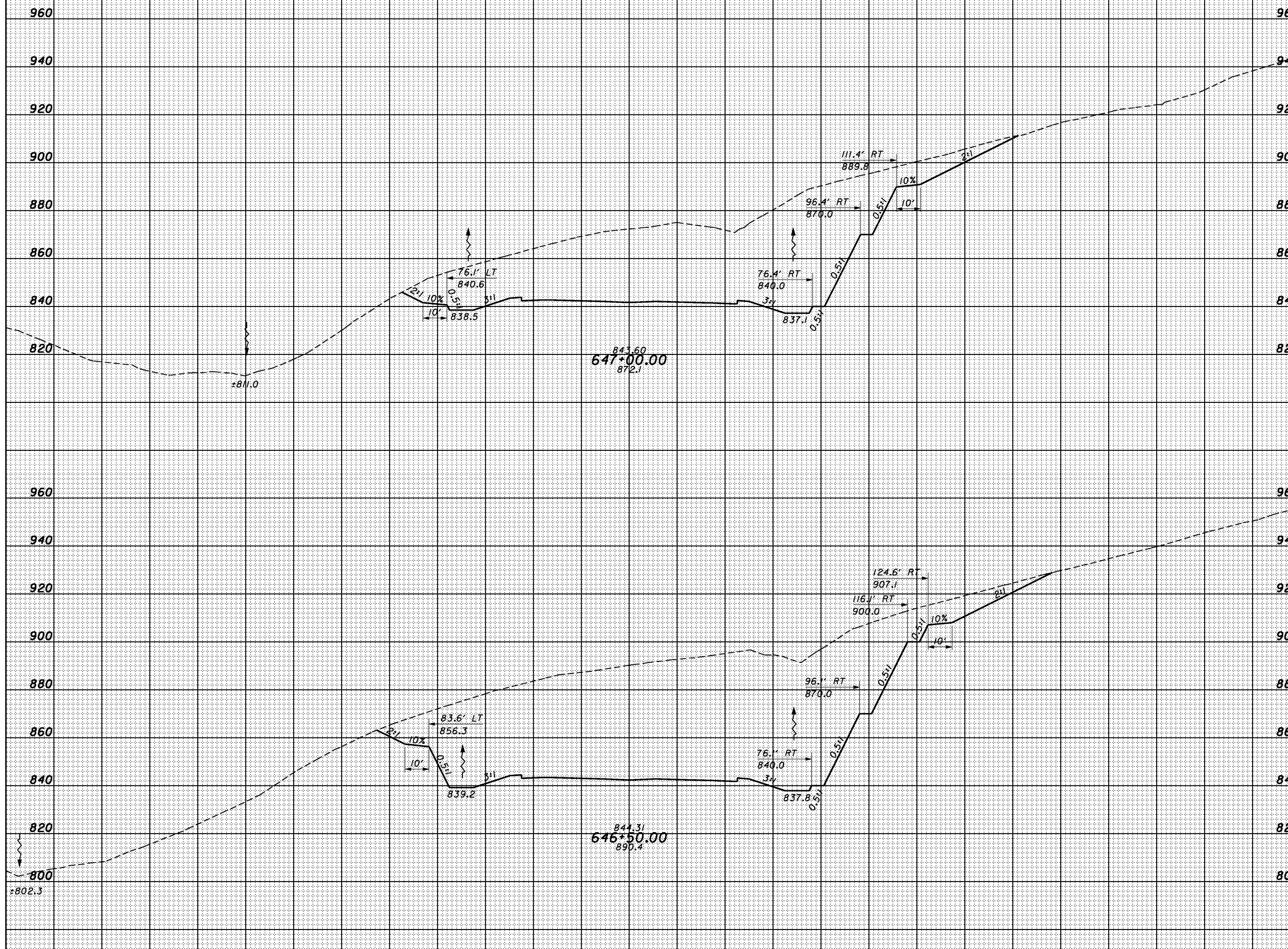


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:55:57 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.c.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 646+50.00 TO STA. 647+00.00

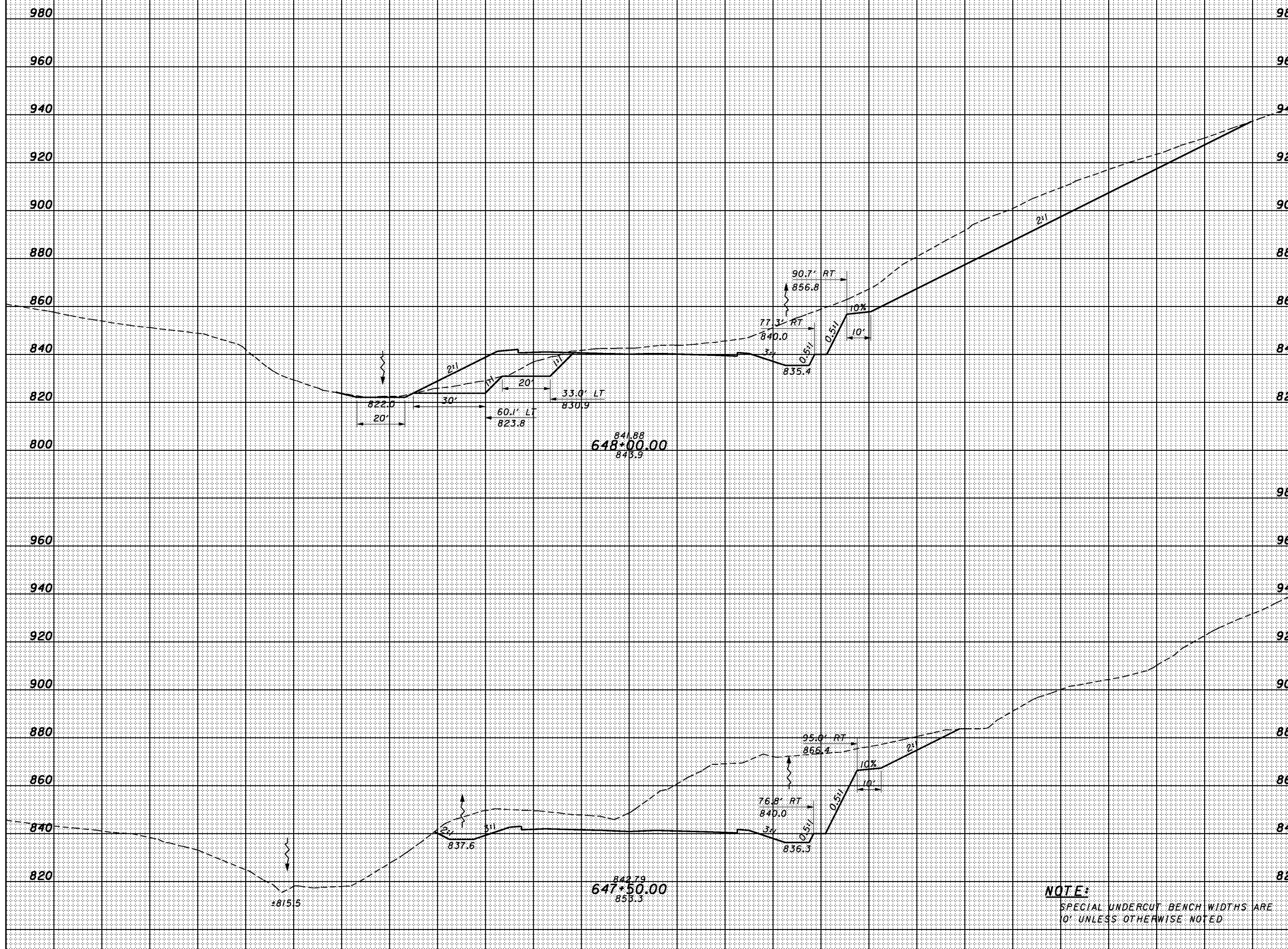
SCI-823-10.13

SEEDING

END WIDTH SO. YDS.

END AREA VOLUME

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE 10' UNLESS OTHERWISE NOTED

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 647+50.00 TO STA. 648+00.00

SCI-823-10.13

3:55:58 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.c.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

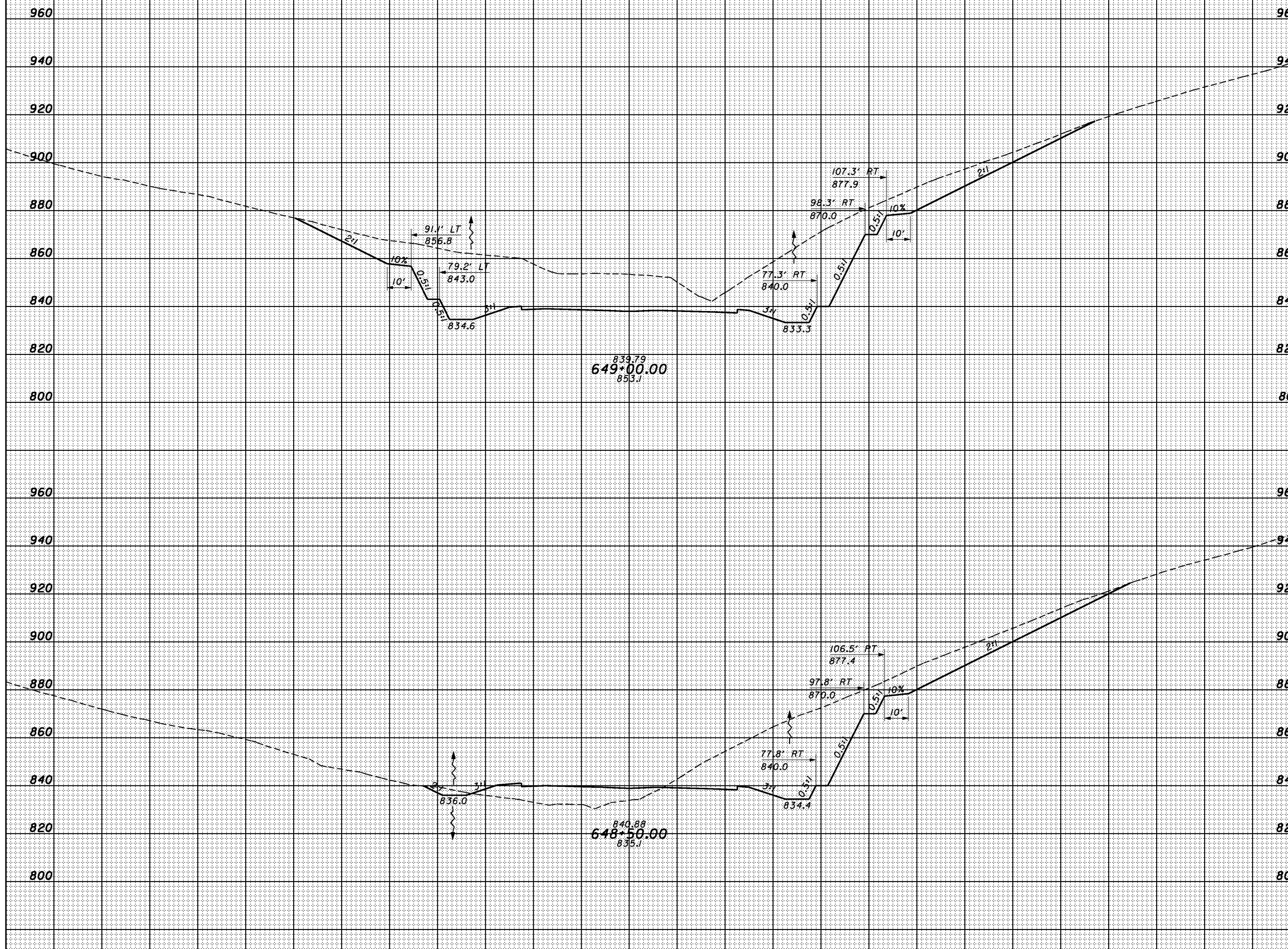
960
940
920
900
880
860
840
820
800

960
940
920
900
880
860
840
820
800

SHEET TOTAL

SHEET TOTAL

3:15:59 PM 1/28/2008 g:\co03\0064\road\phase 2\79917xs_sr823.c.dgn



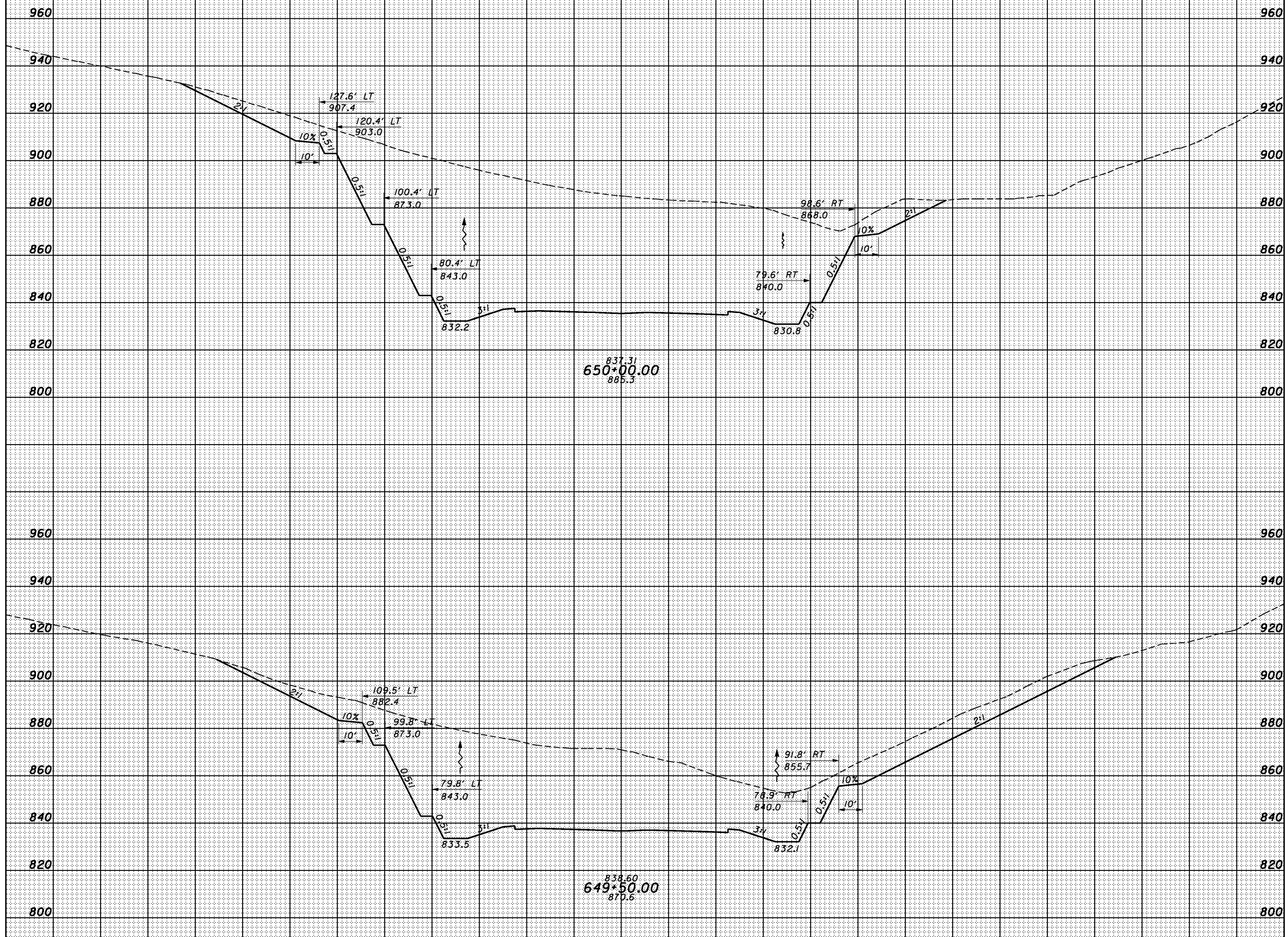
CROSS SECTIONS
SR823 - STA. 648+50.00 TO STA. 649+00.00

SCI-823-10.13

227

SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



837.31
650+00.00
885.3

838.60
649+50.00
870.6

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 649+50.00 TO STA. 650+00.00

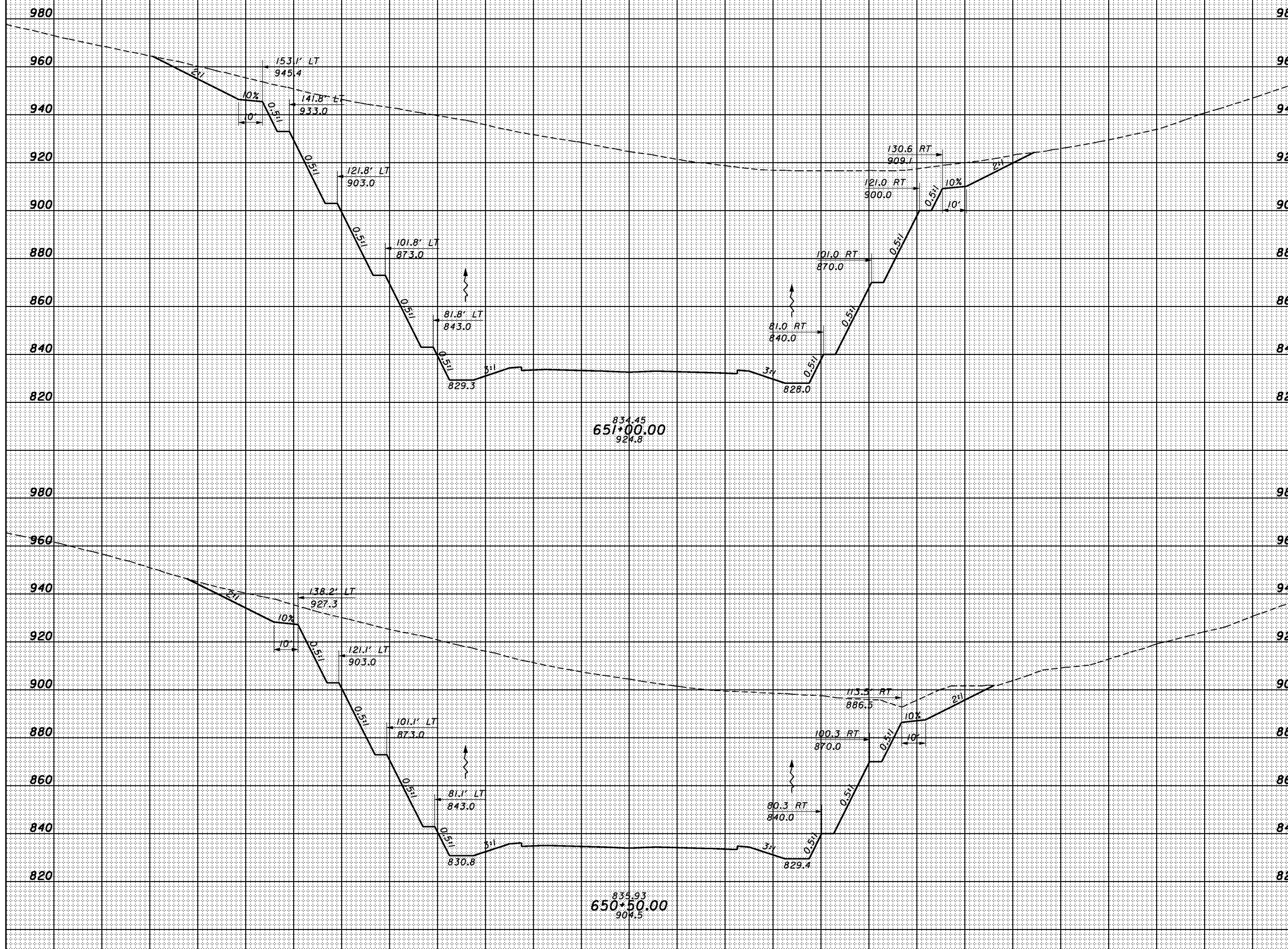
SCI-823-10.13

3/16/00 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.c.dgn

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:16:01 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.c.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

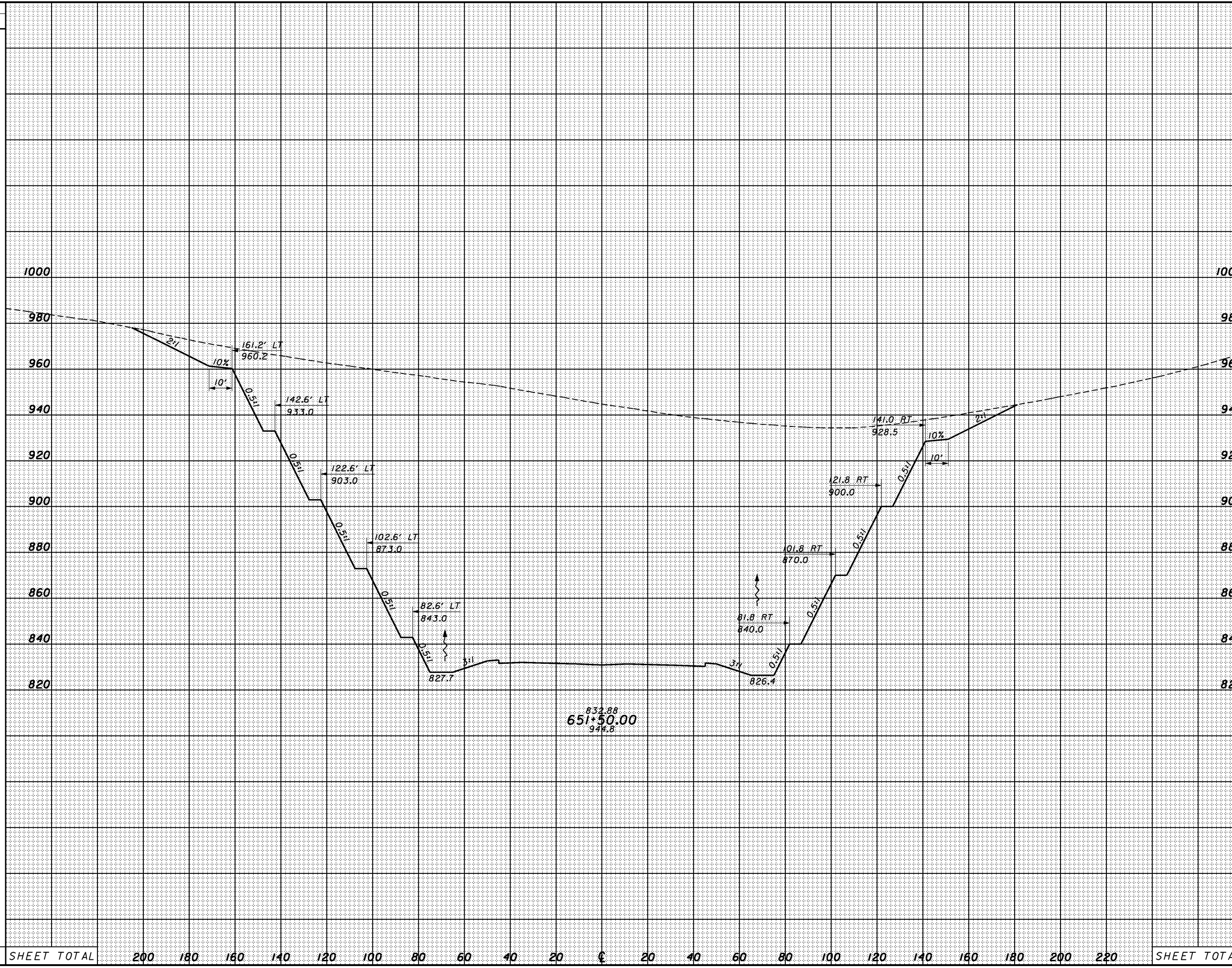
CROSS SECTIONS
SR823 - STA. 650+50.00 TO STA. 651+00.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:16:02 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.c.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 651+50.00

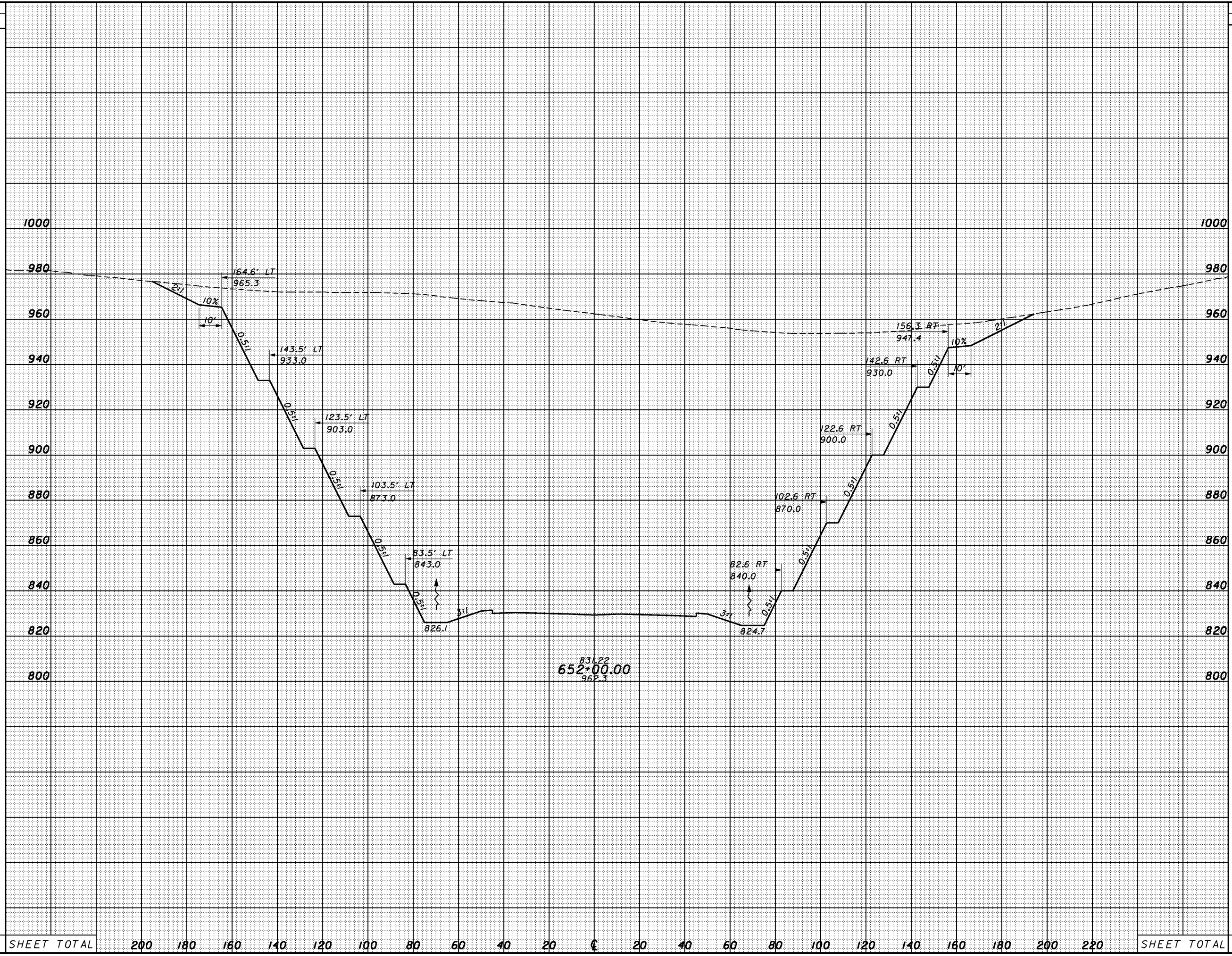
SCI-823-10.13

230

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:16:03 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.c.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 652+00.00

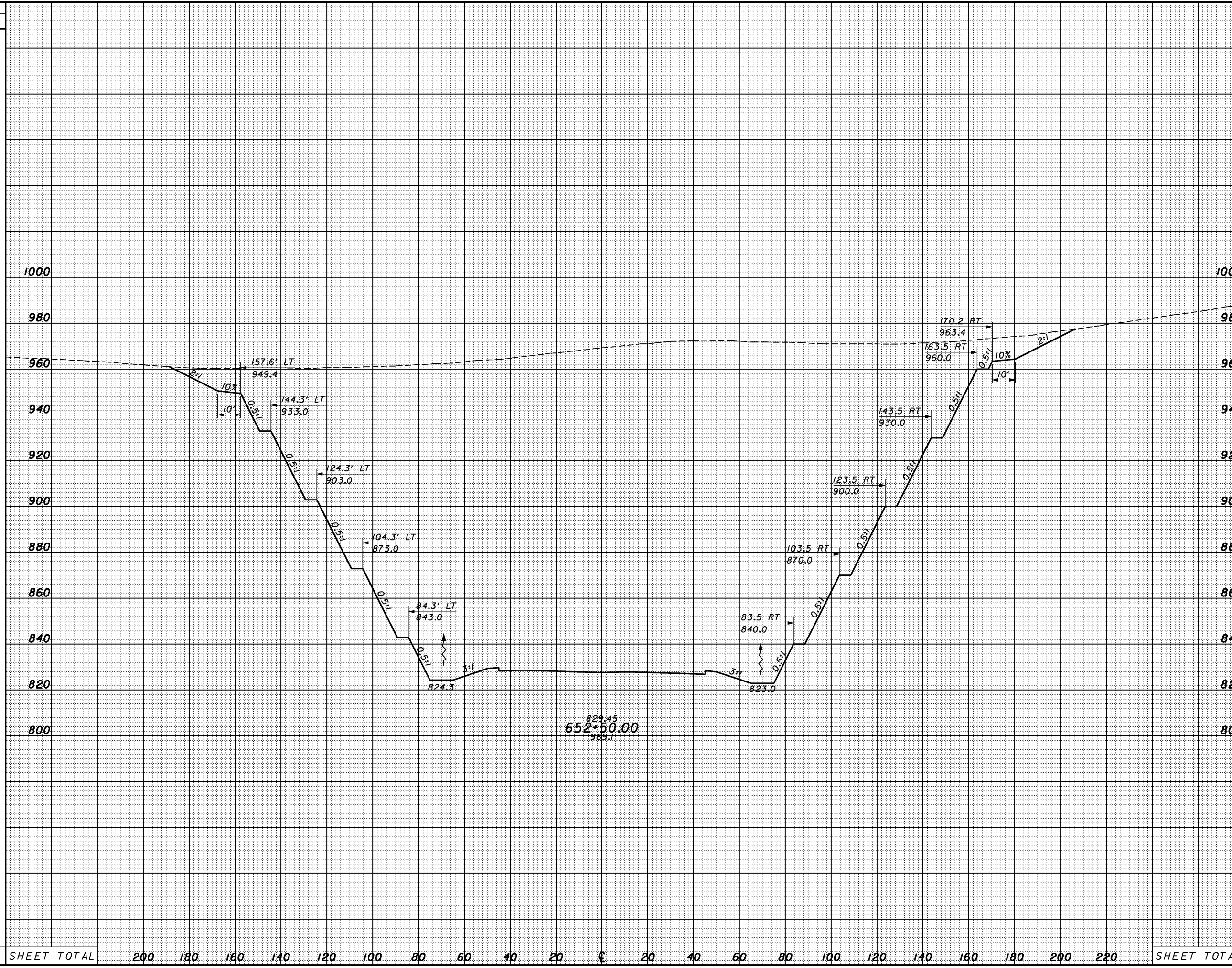
SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED

3:16:04 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.c.dgn



CROSS SECTIONS
SR823 - STA. 652+50.00

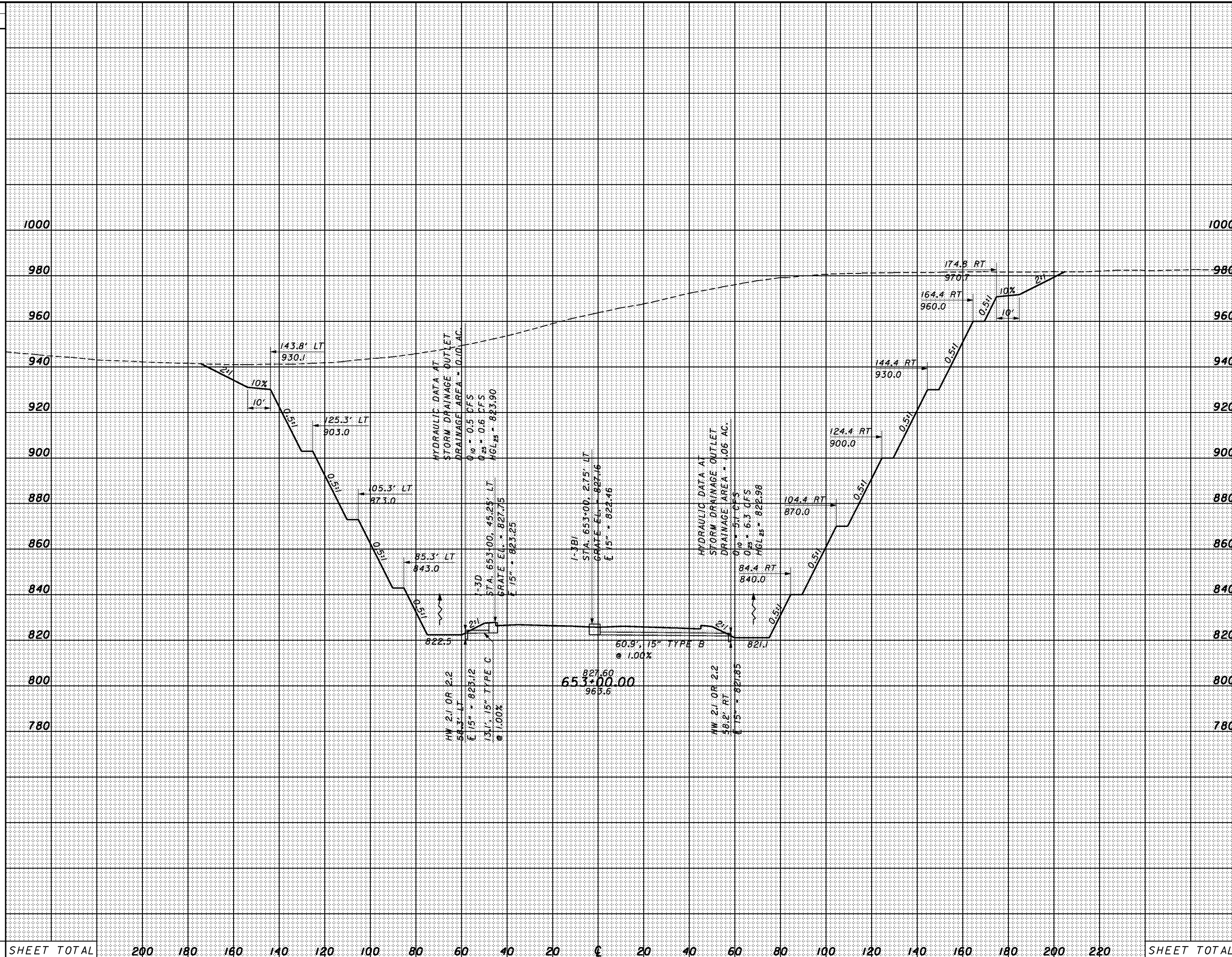
SCI-823-10.13

232

3:16:05 PM 1/28/2008 g:\co03\0064\road\phase 2\7997\ss_sr823.c.dgn

SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 653+00.00

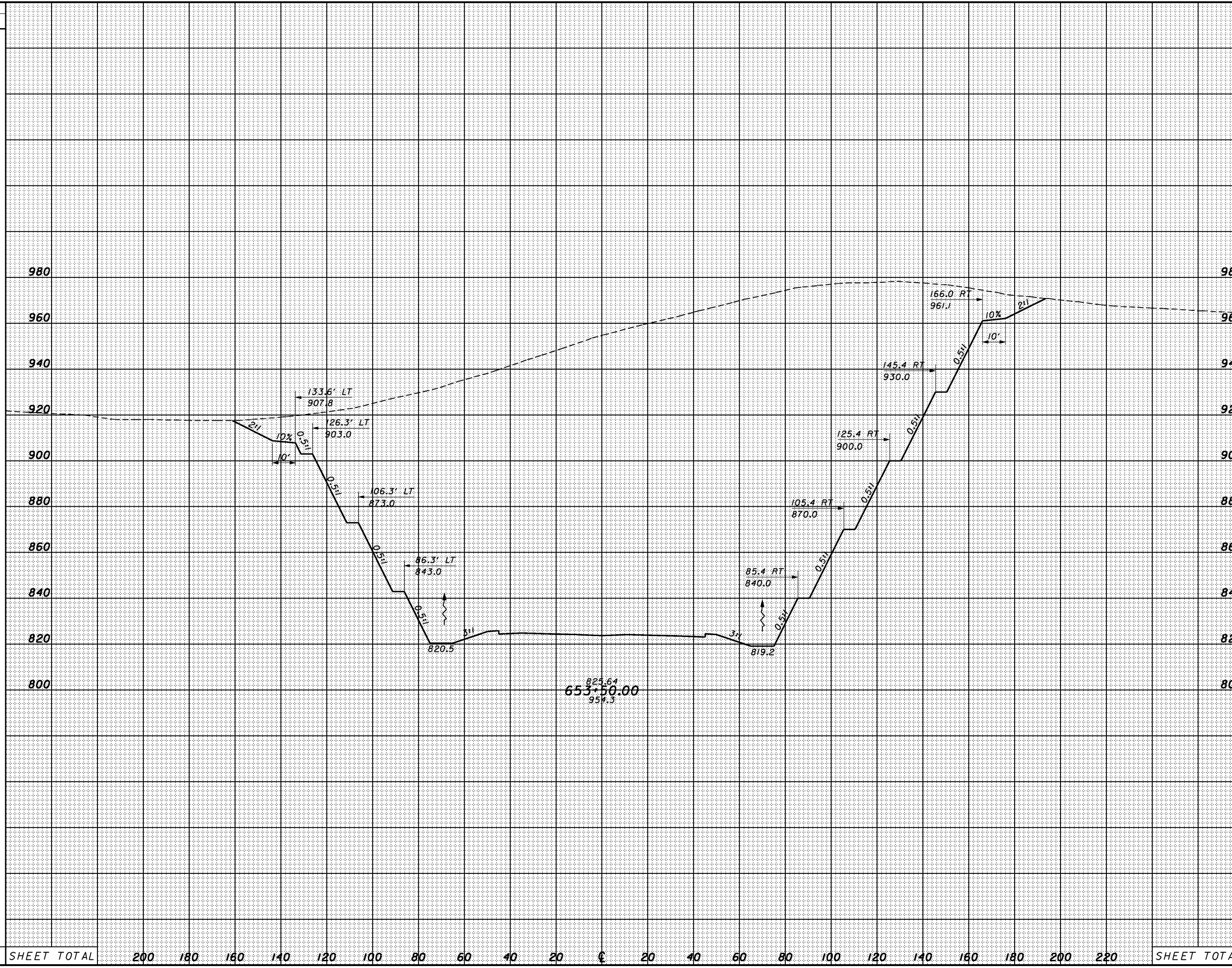
SCI-823-10.13

233

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:16:05 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.c.dgn



823.64
653+50.00
957.3

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

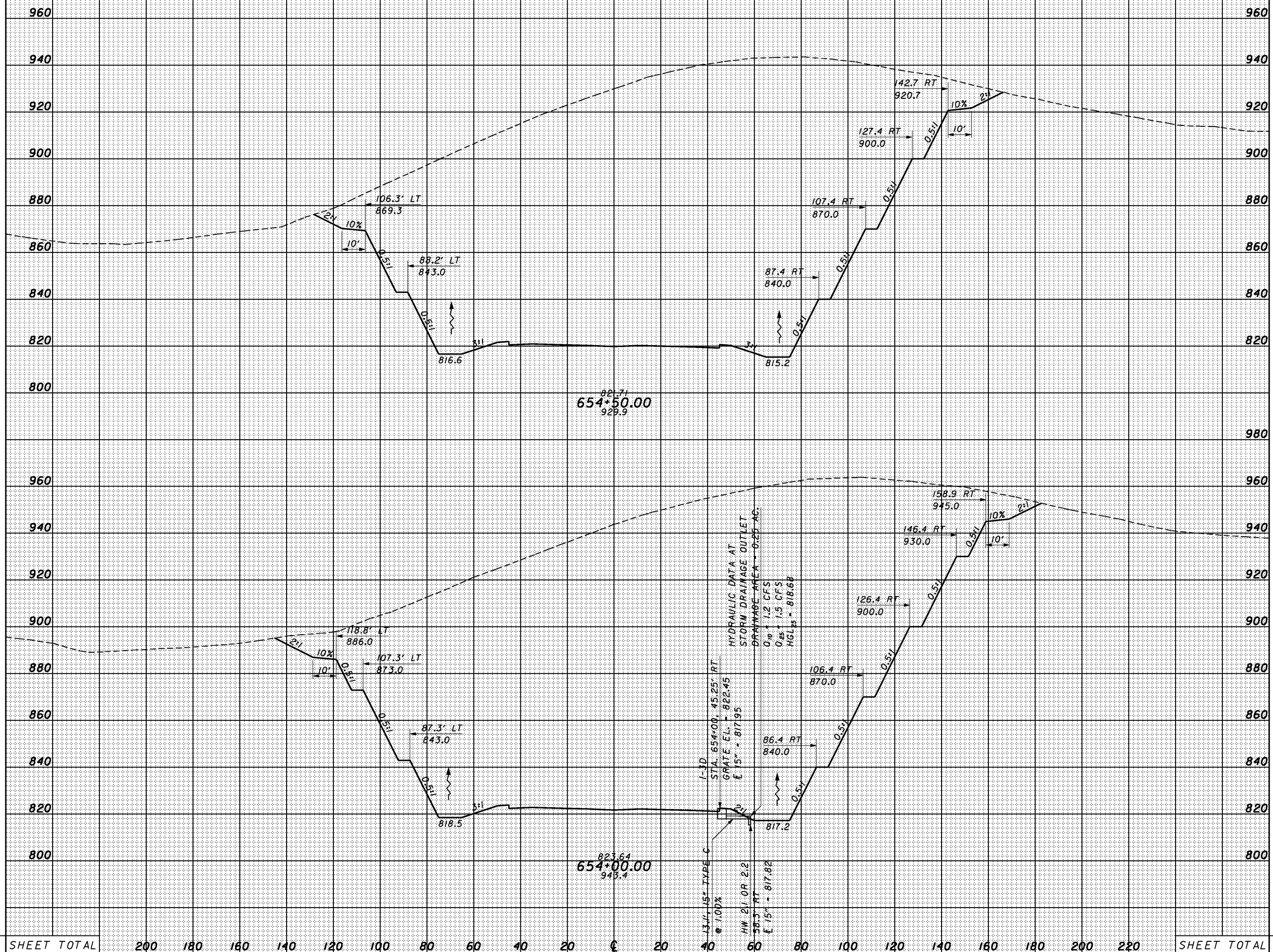
CROSS SECTIONS
SR823 - STA. 653+50.00

SCI-823-10.13

3:16:07 PM 1/28/2008 g:\co03\0064\road\phase 2\79917xs_sr823.c.dgn

SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

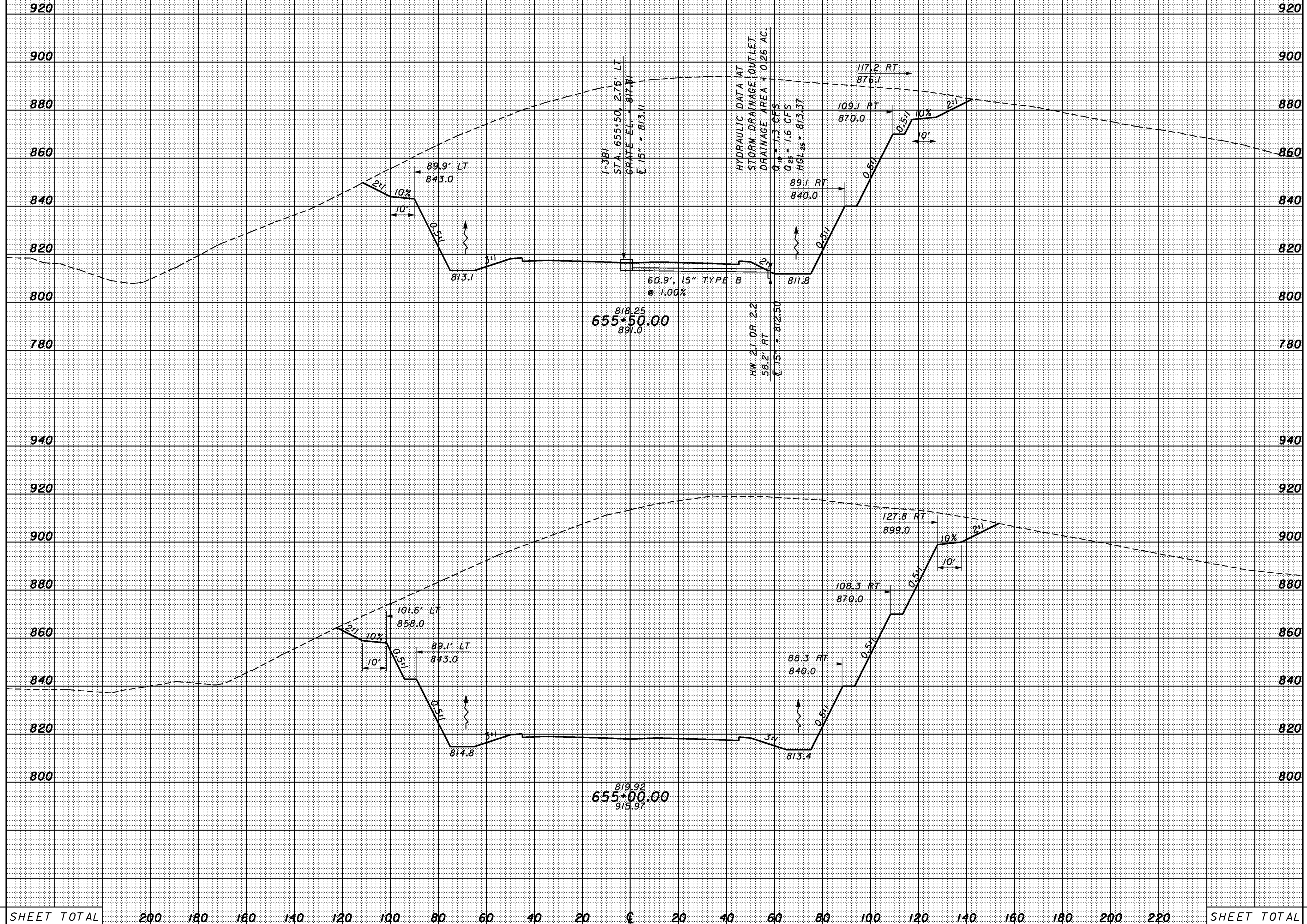
SR823 - STA. 654+00.00 TO STA. 654+50.00

SCI-823-10.13

3:16:08 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.c.dgn

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 655+00.00 TO STA. 655+50.00

SCI-823-10.13

3:16:09 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.c.dgn

SEEDING	
END WIDTH	SO. YDS.

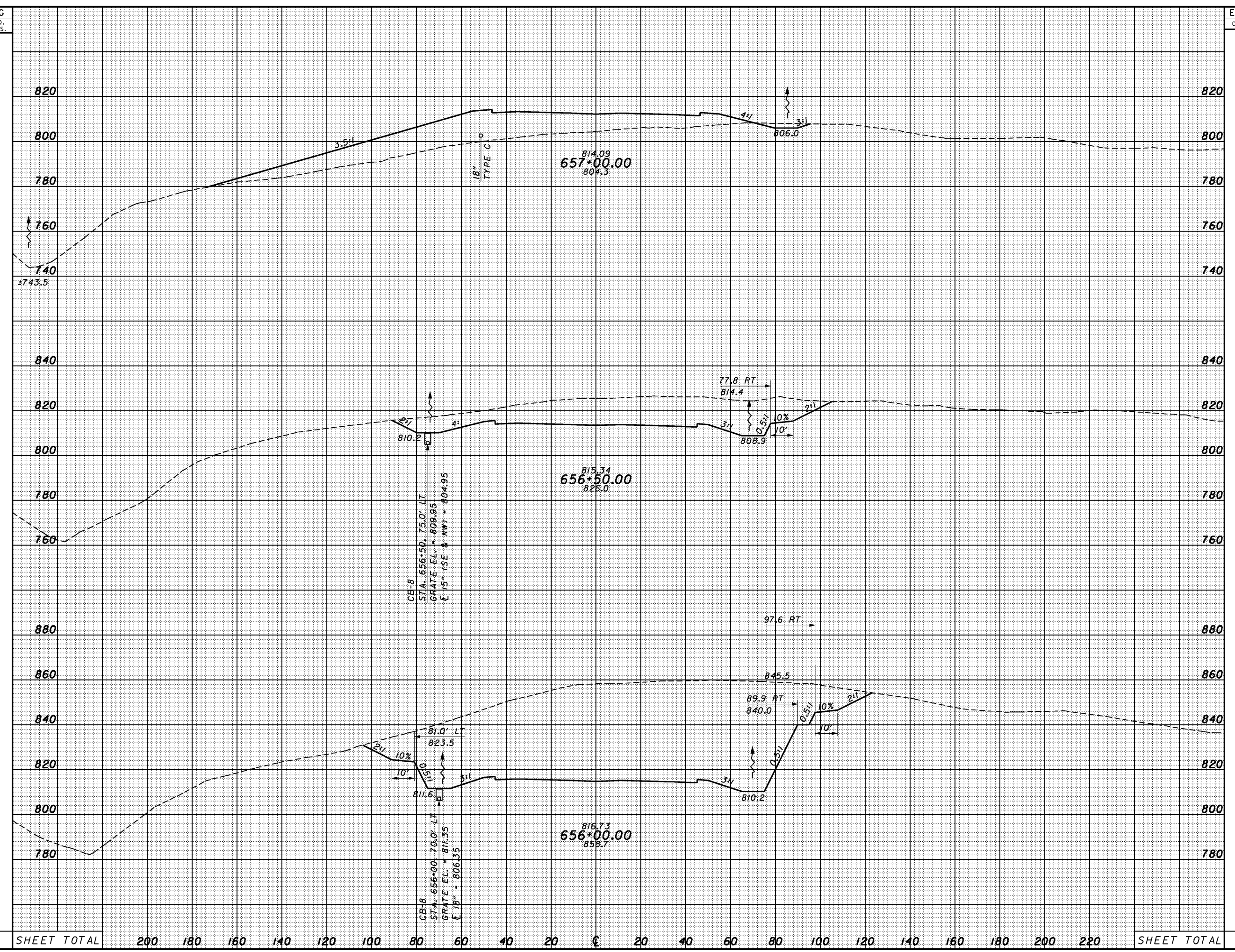
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 656+00.00 TO STA. 657+00.00

SCI-823-10.13

237

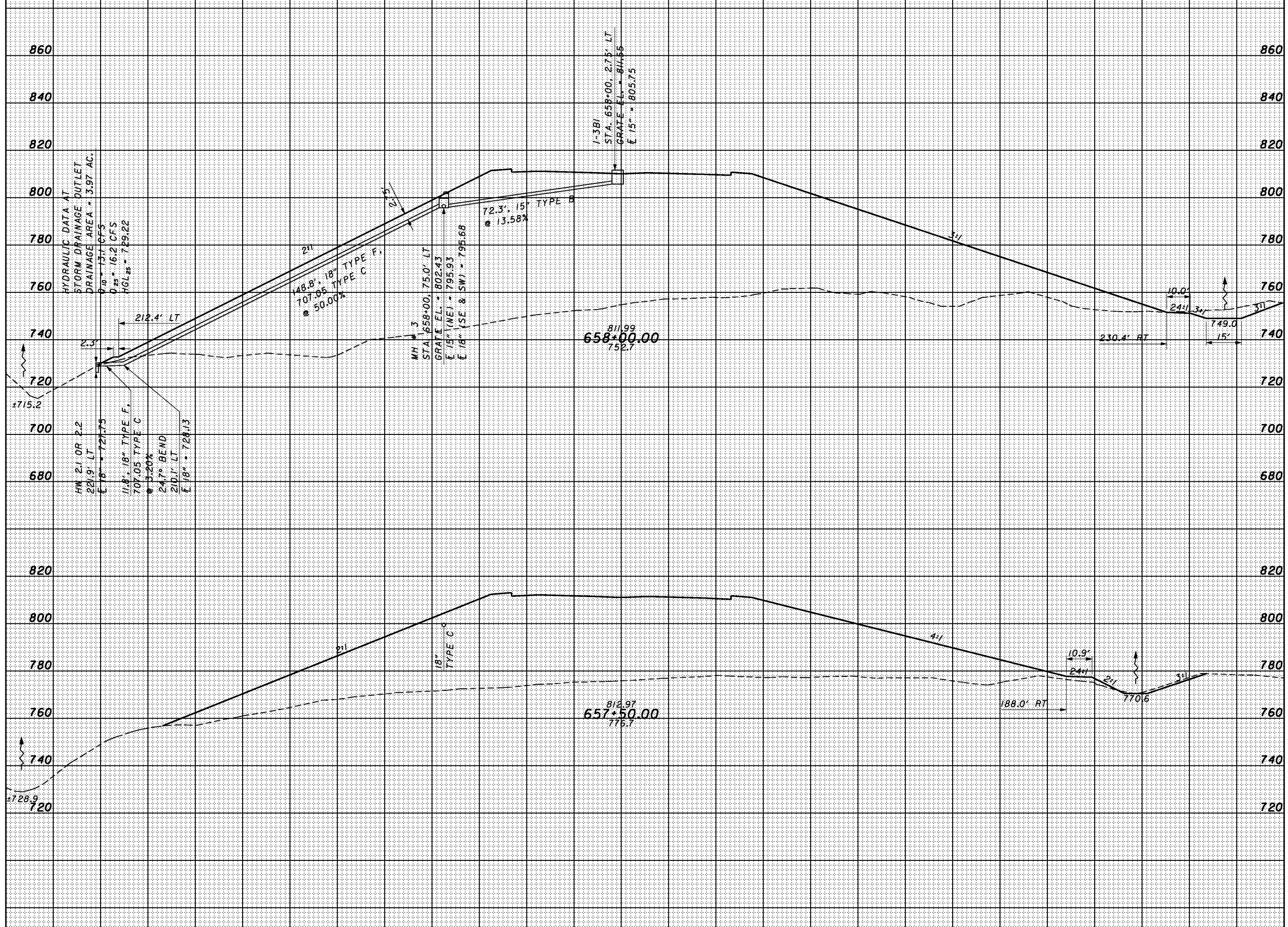


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3:16:10 PM 1/28/2008 g:\c03\0064\road\phase 2\79917xs_sr823.c.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

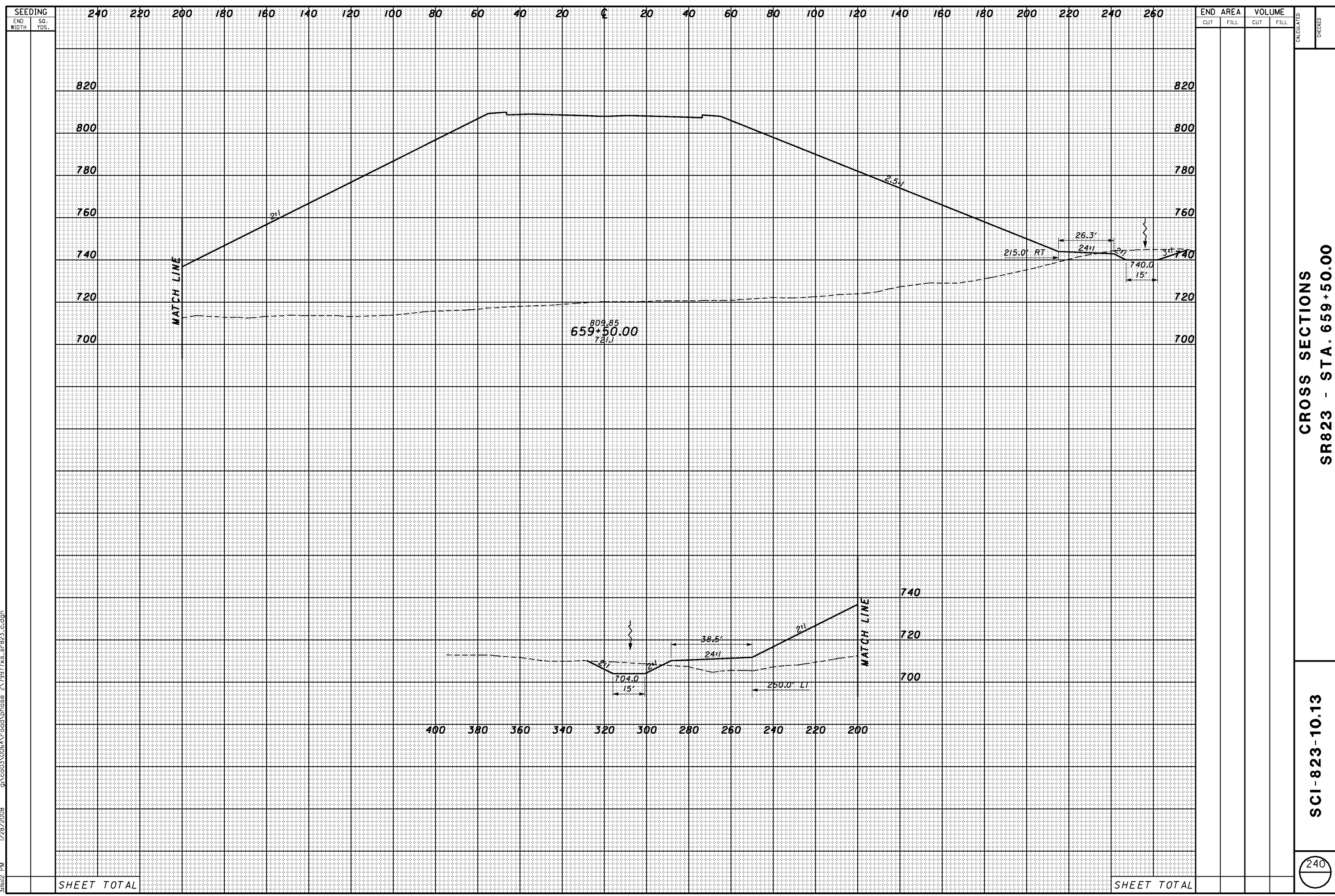


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 657+50.00 TO STA. 658+00.00

SCI-823-10.13

3/6/12 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.c.dgn



SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		
SHEET TOTAL							

CROSS SECTIONS
SR823 - STA. 659+50.00

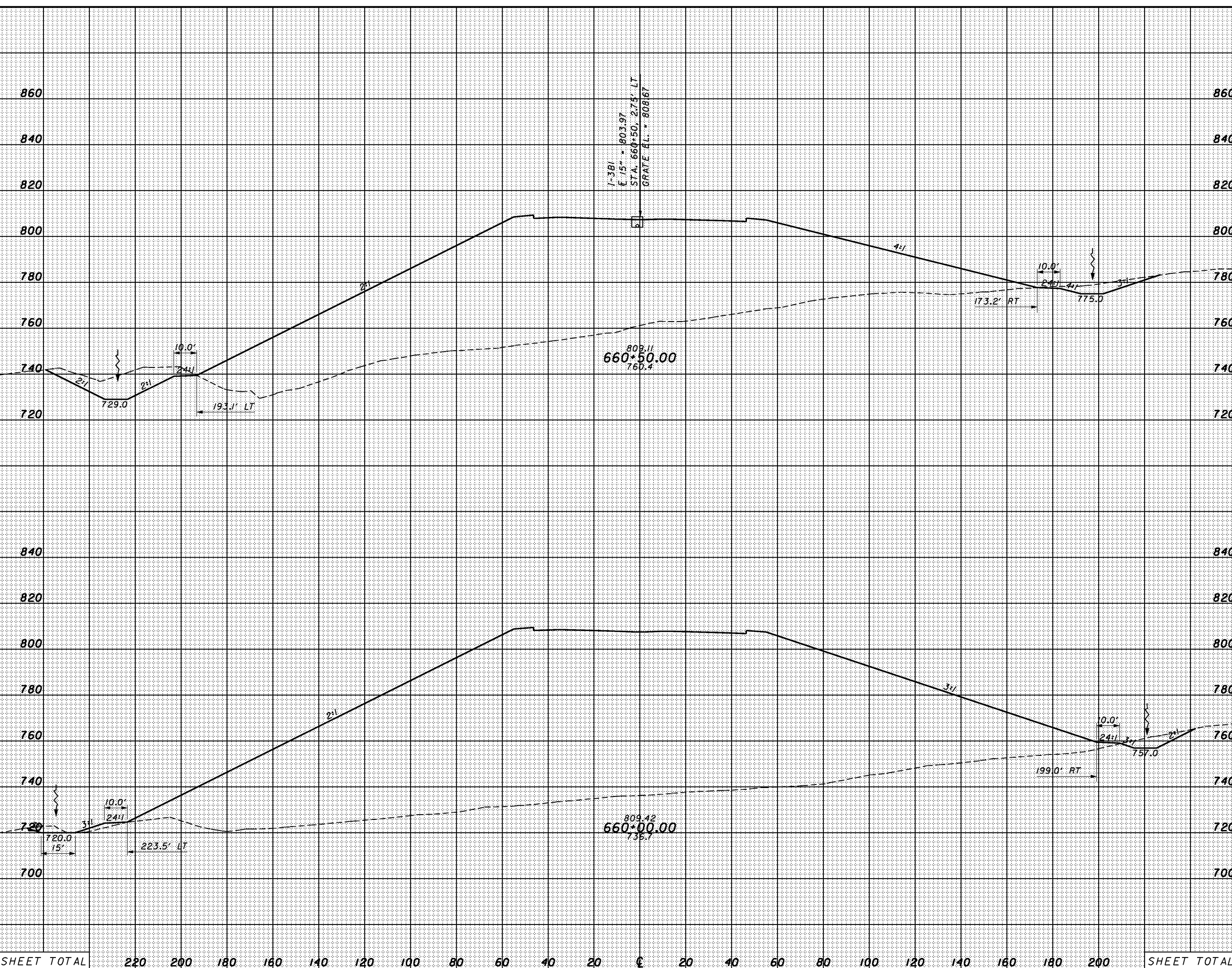
SCI-823-10.13

240

3/16/14 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	SHEET TOTAL
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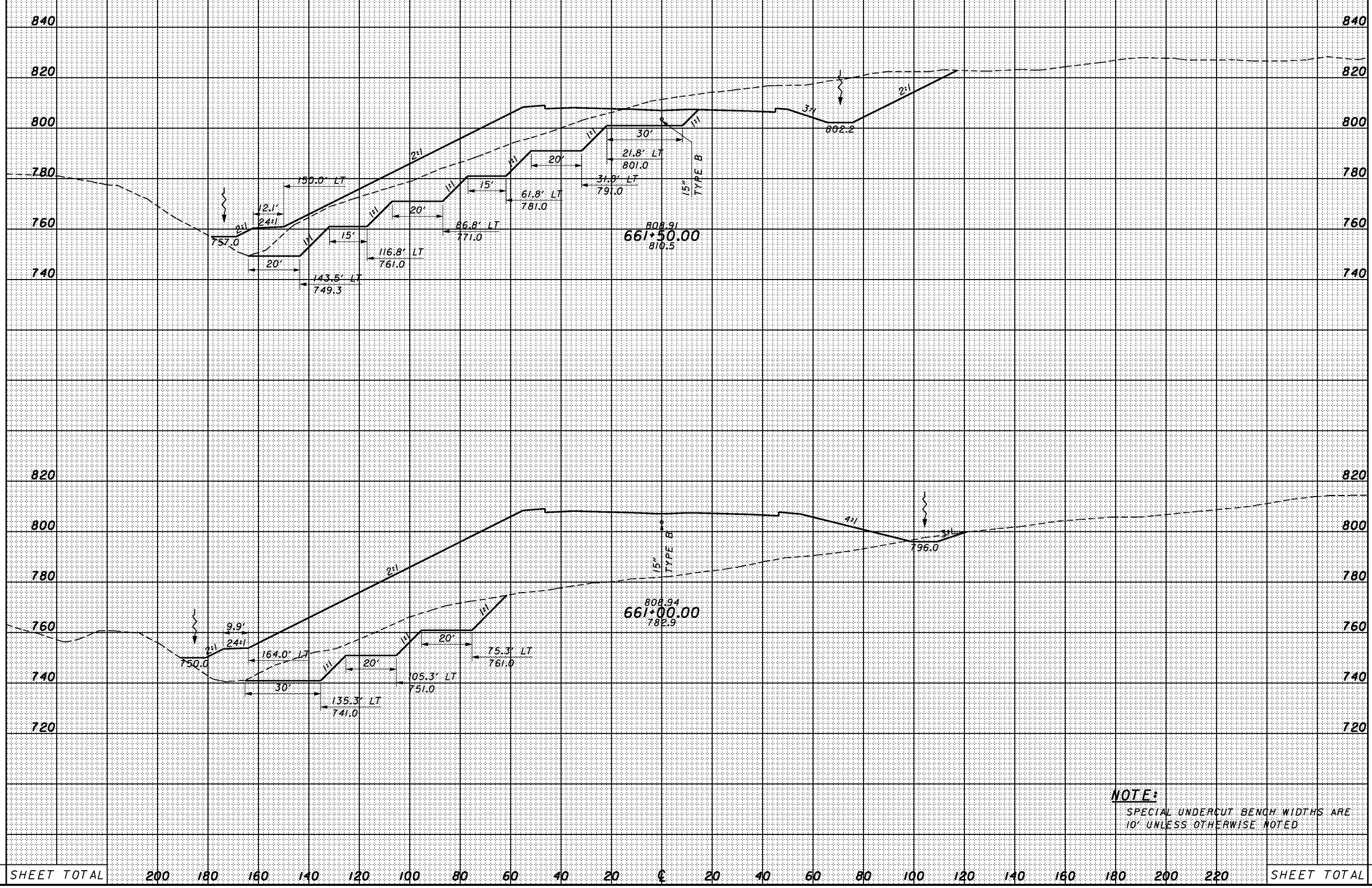
CROSS SECTIONS
SR823 - STA. 660+00.00 TO STA. 660+50.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

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NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE 10' UNLESS OTHERWISE NOTED

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

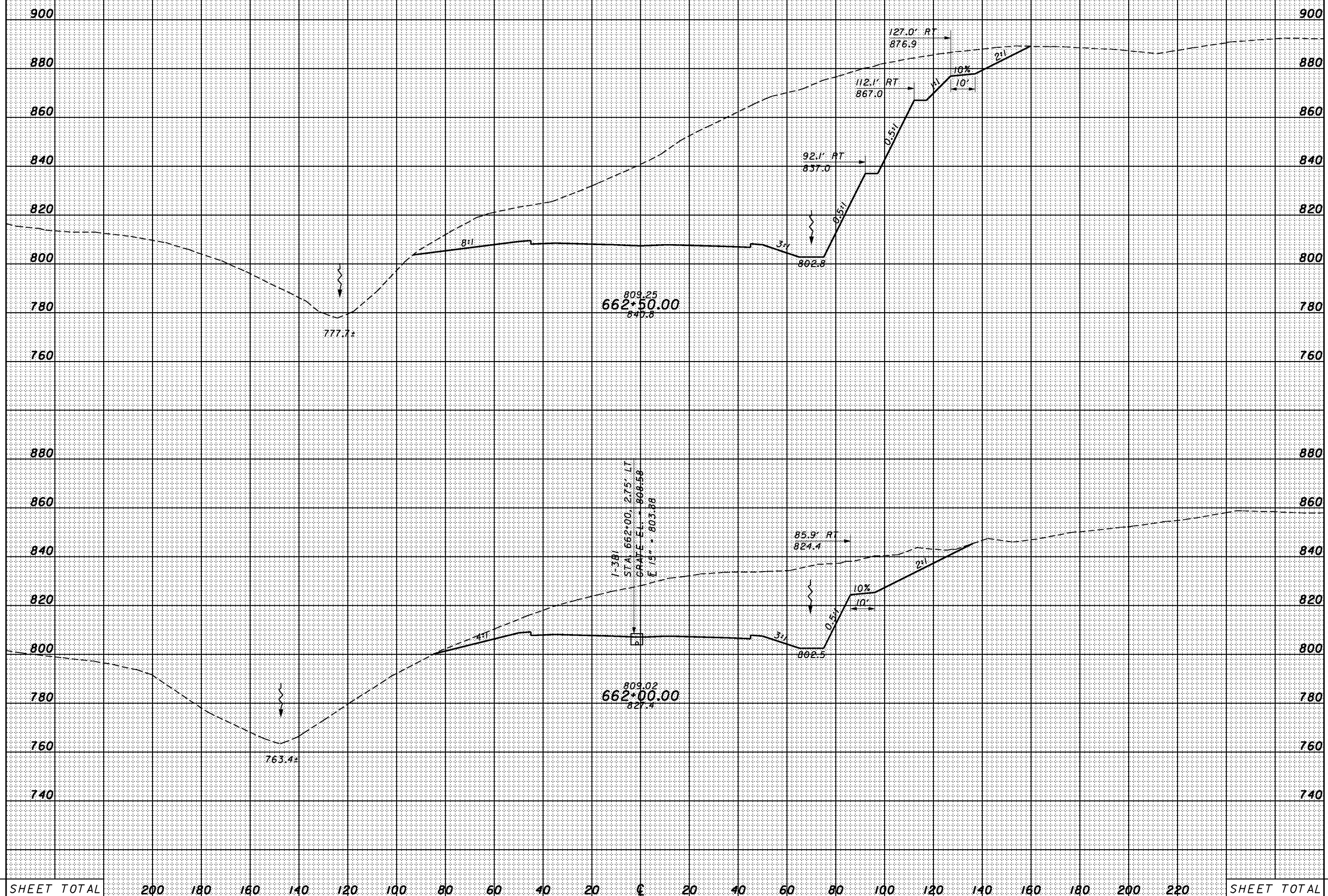
SR823 - STA. 661+00.00 TO STA. 661+50.00

SCI-823-10.13

3:16:16 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 662+00.00 TO STA. 662+50.00

SCI-823-10.13

3:56:17 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 663+00.00

SCI-823-10.13

244

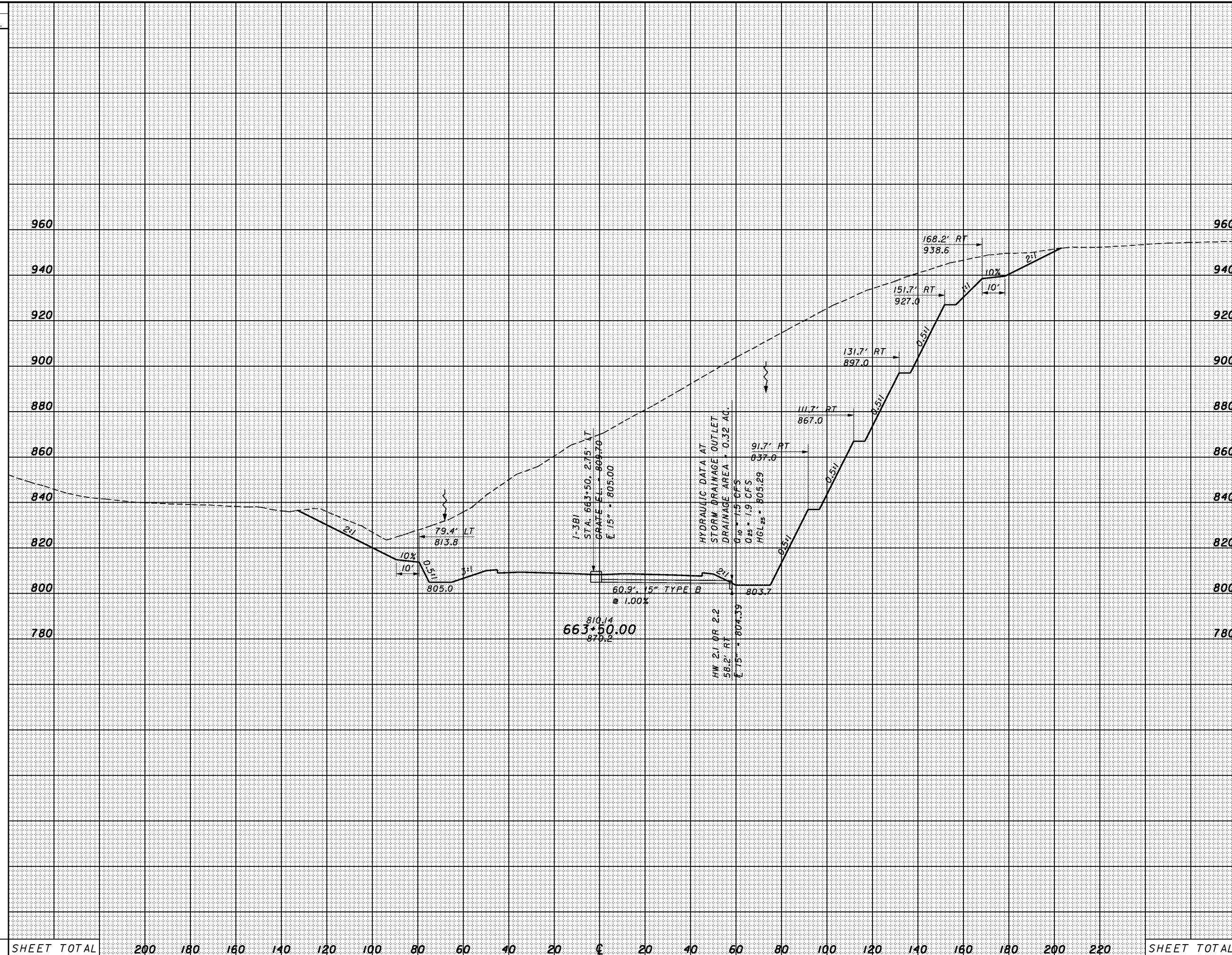


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3:16:18 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING

END WIDTH SO. YDS.



END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

CROSS SECTIONS
SR823 - STA. 663+50.00

SCI-823-10.13

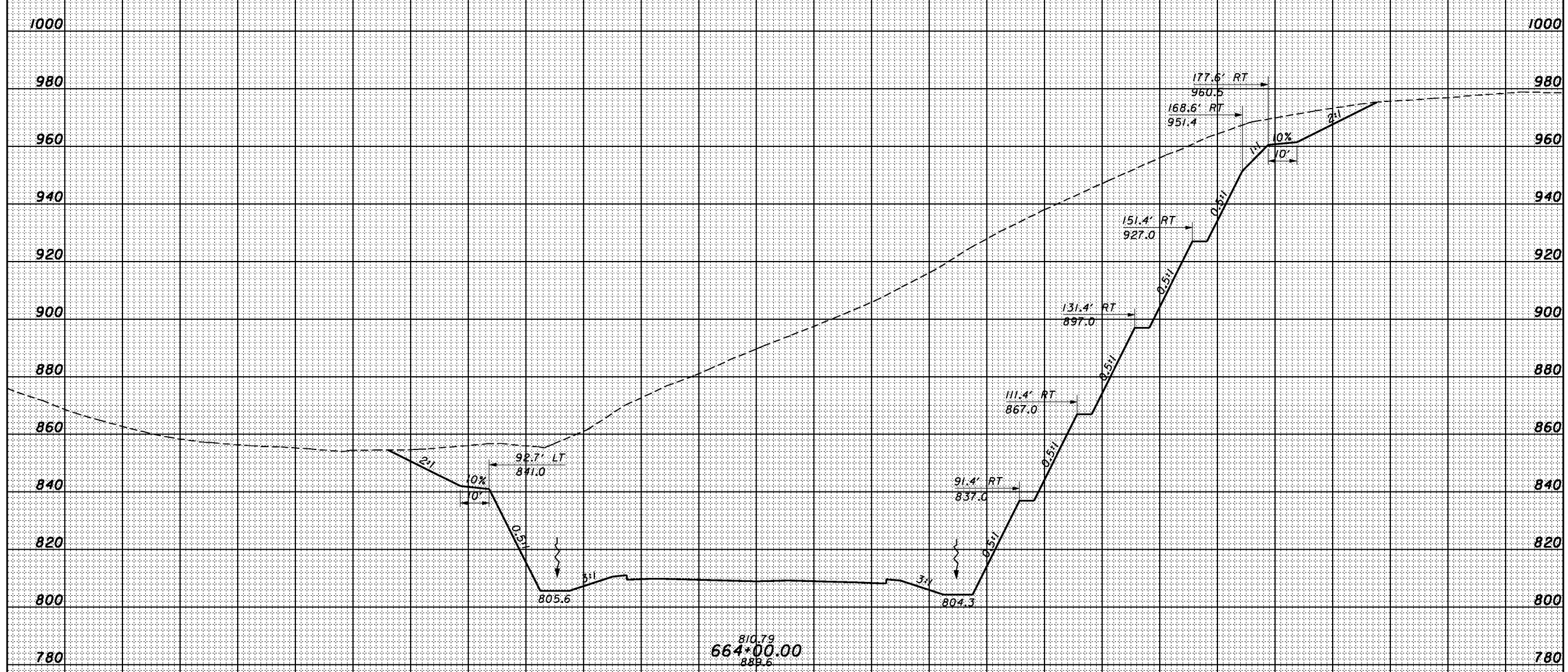
245

SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3:16:19 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 664+00.00

SCI-823-10.13

3/16/20 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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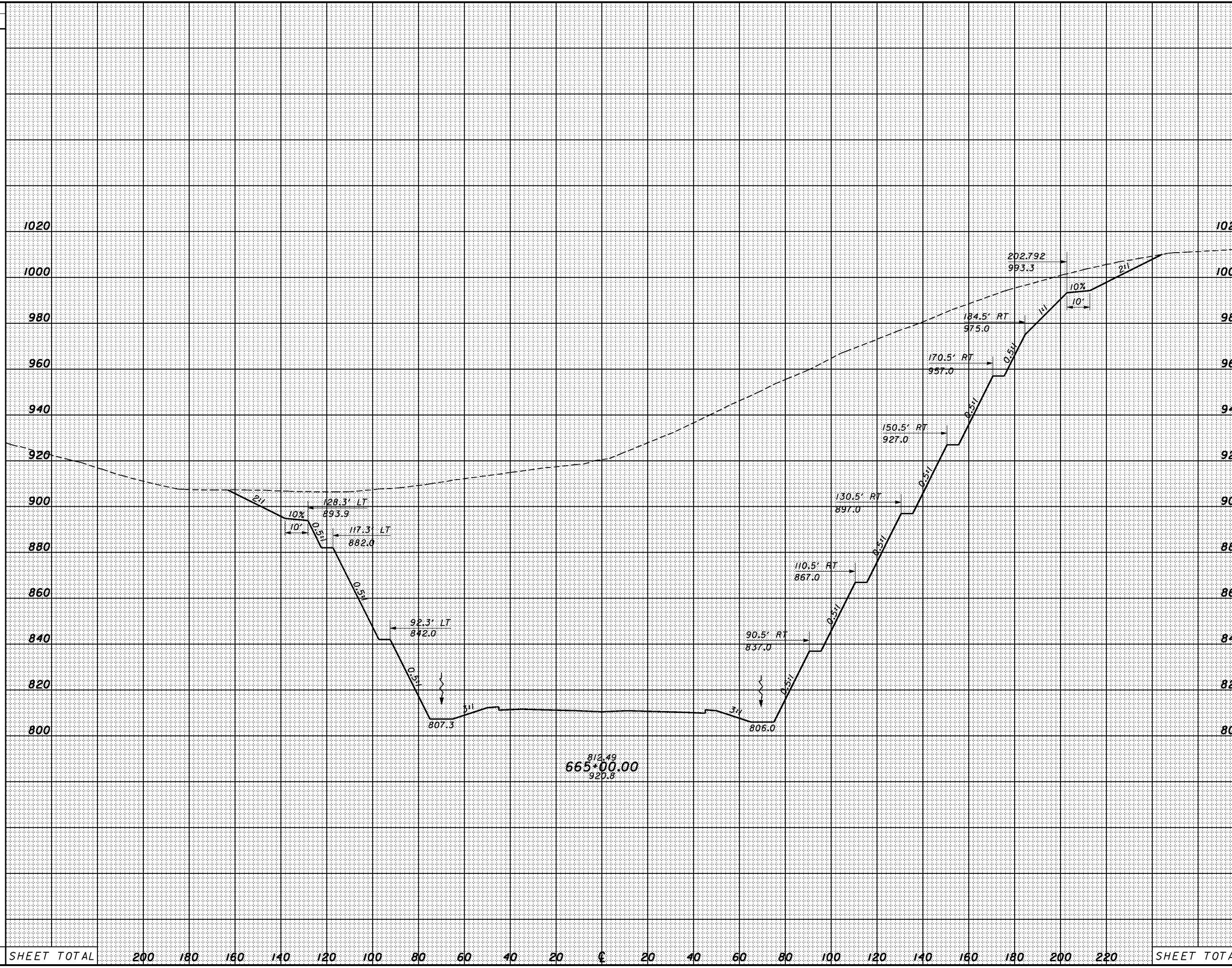
CROSS SECTIONS
SR823 - STA. 664+50.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

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SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 665+00.00

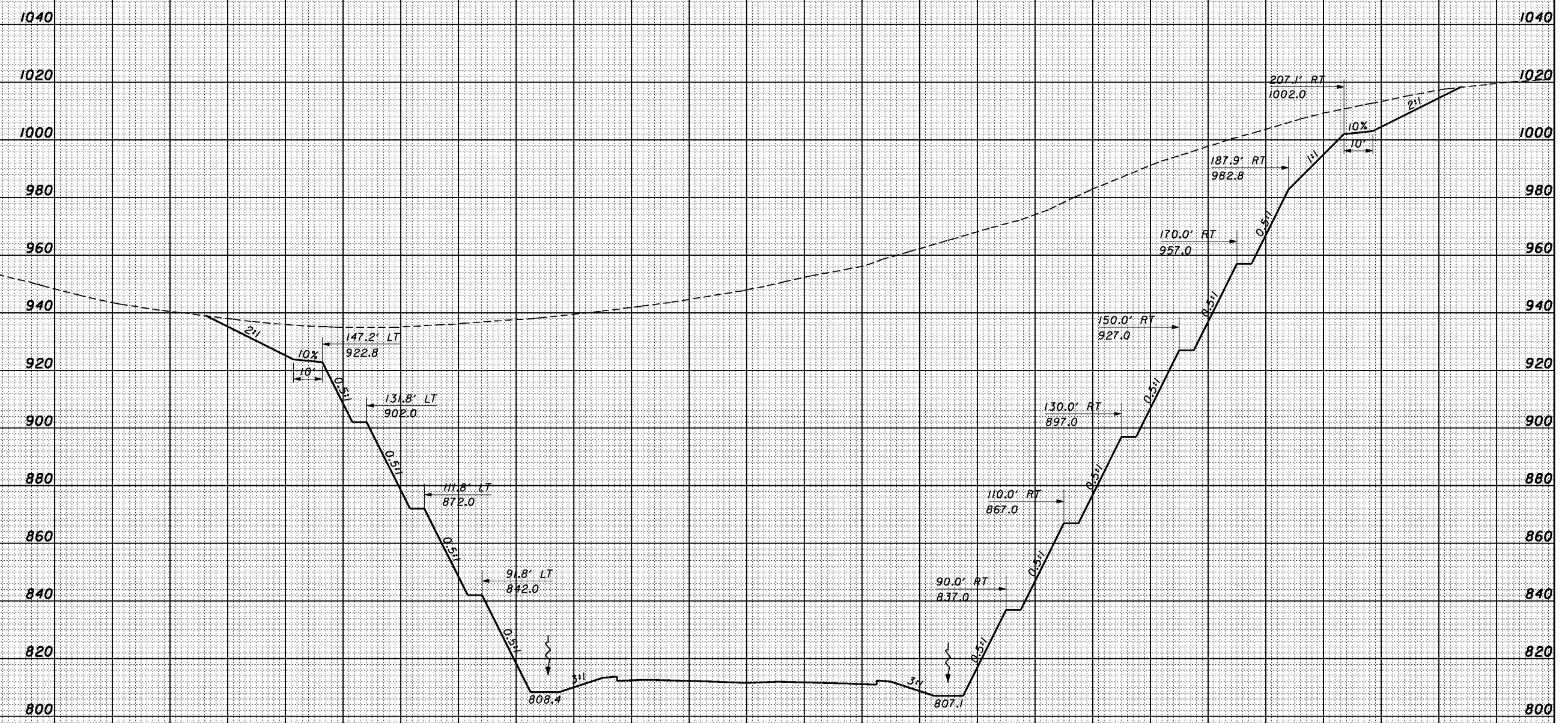
SCI-823-10.13

3:16:22 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED



813.54
665+50.00
 948.2

CROSS SECTIONS
SR823 - STA. 665+50.00

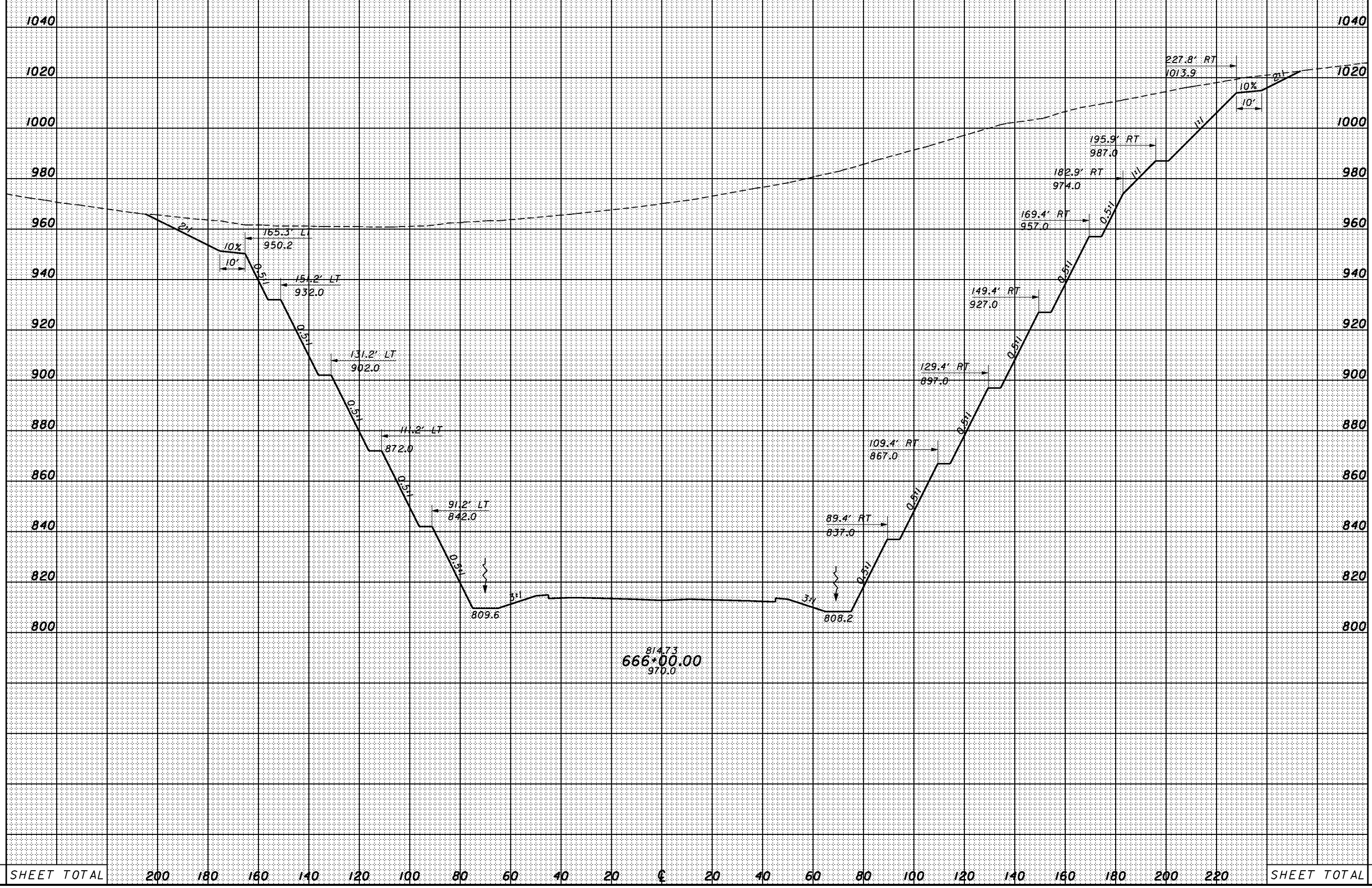
SCI-823-10.13

SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

3:16:23 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 666+00.00

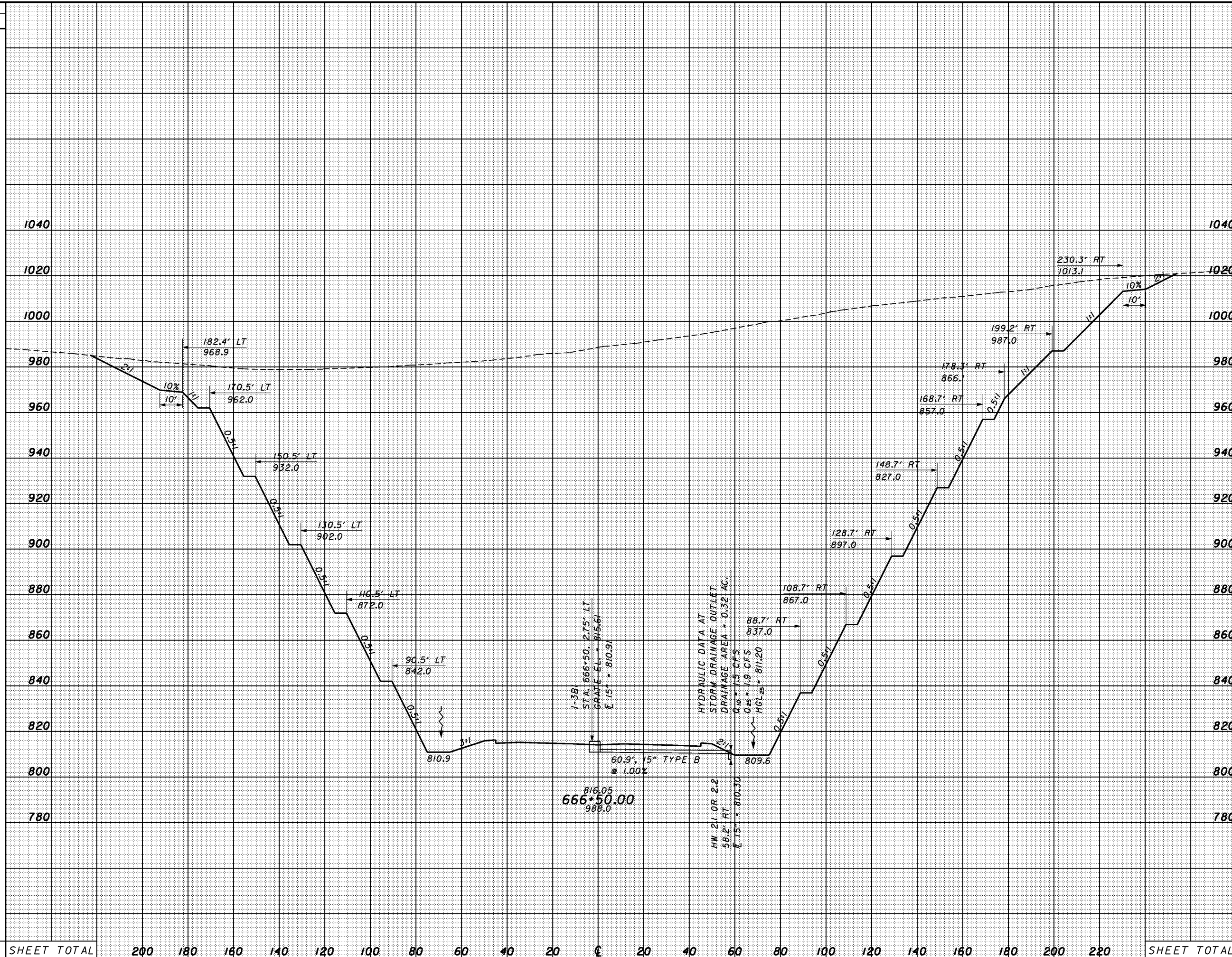
SCI-823-10.13

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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 666+50.00

SCI-823-10.13

3/16/25 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 667+00.00

SCI-823-10.13

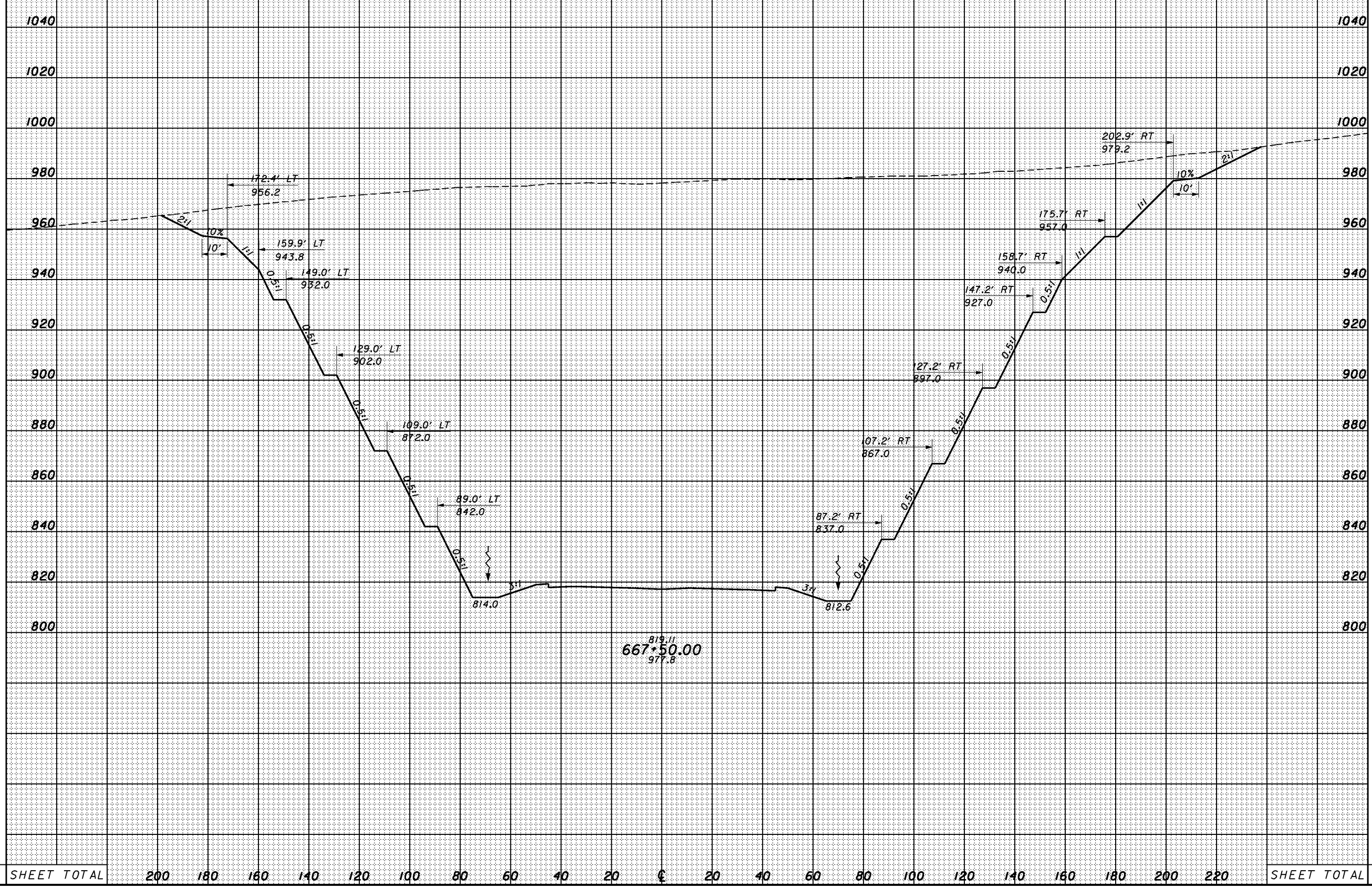


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

3/16/26 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

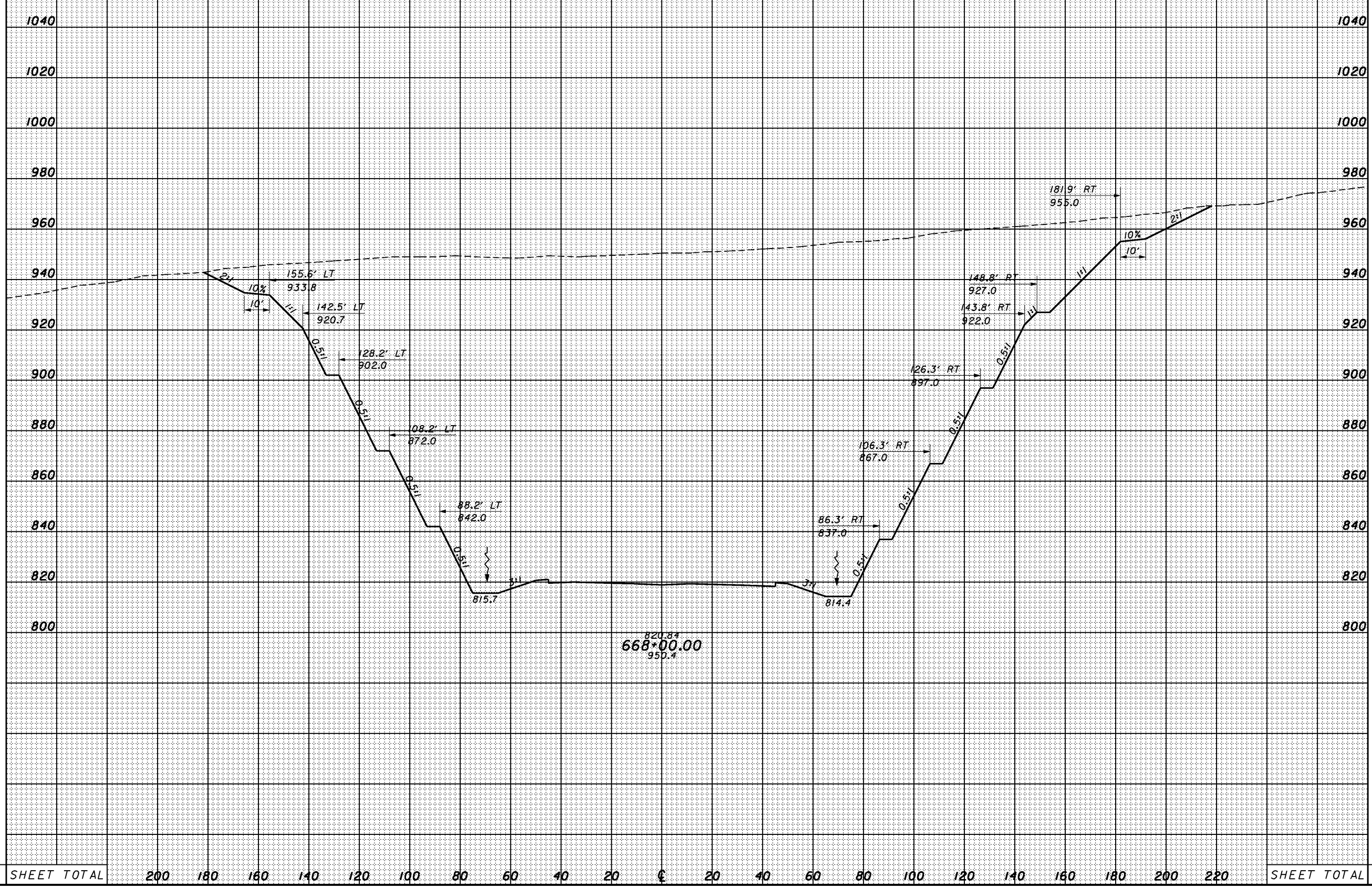
CROSS SECTIONS
SR823 - STA. 667+50.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3/16/26 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



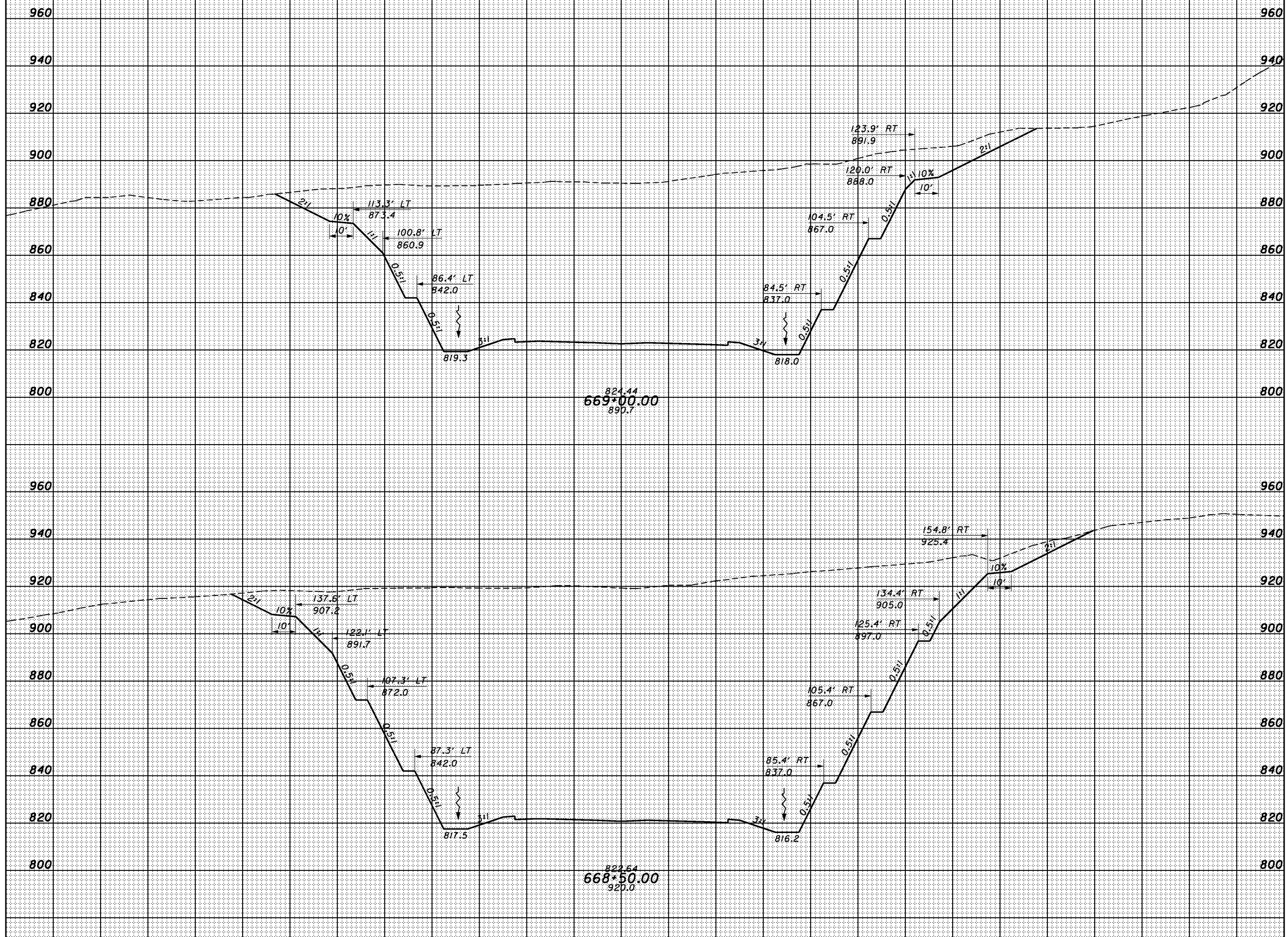
CROSS SECTIONS
SR823 - STA. 668+00.00

SCI-823-10.13

254

SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 668+50.00 TO STA. 669+00.00

SCI-823-10.13

255

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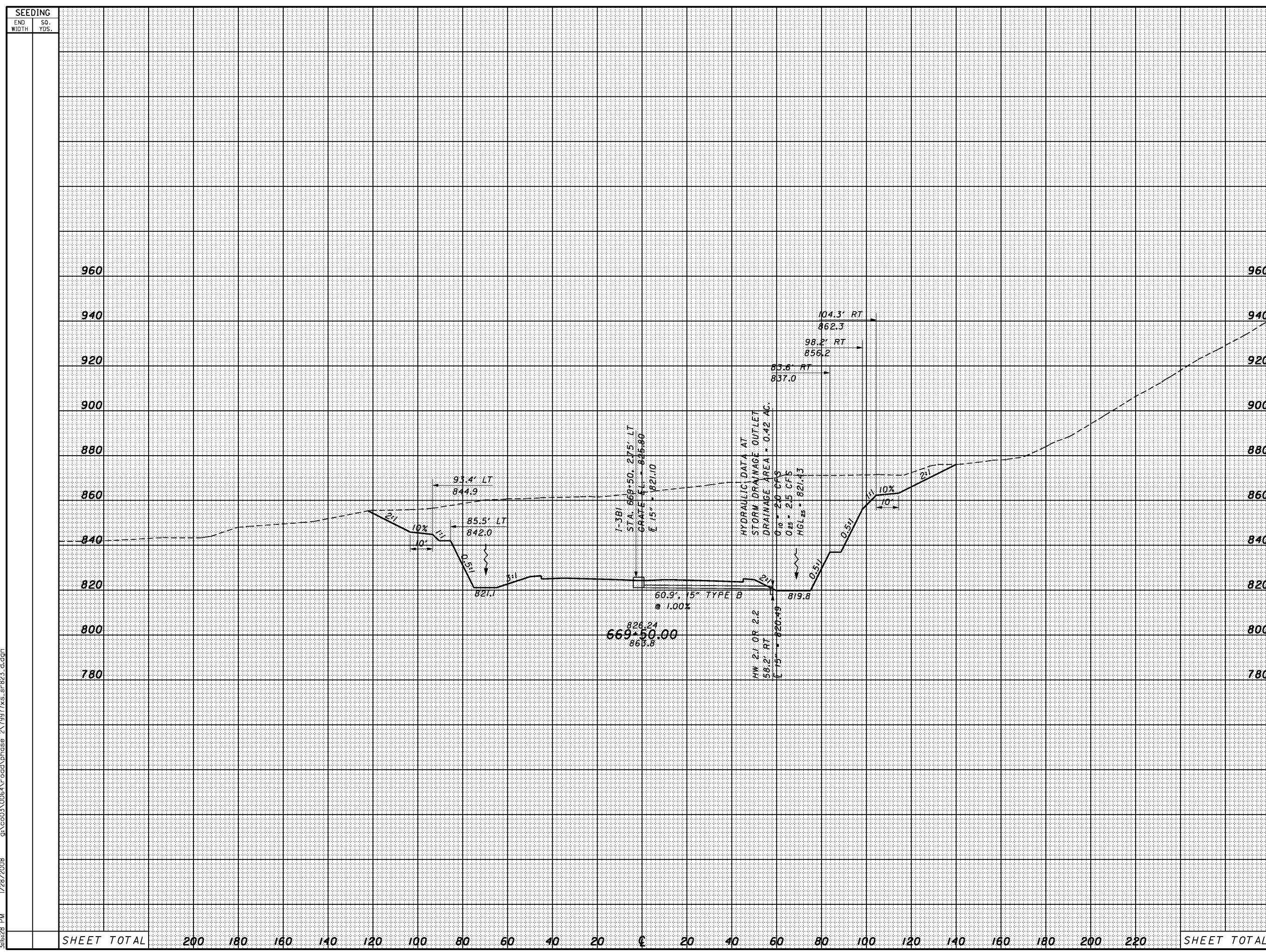
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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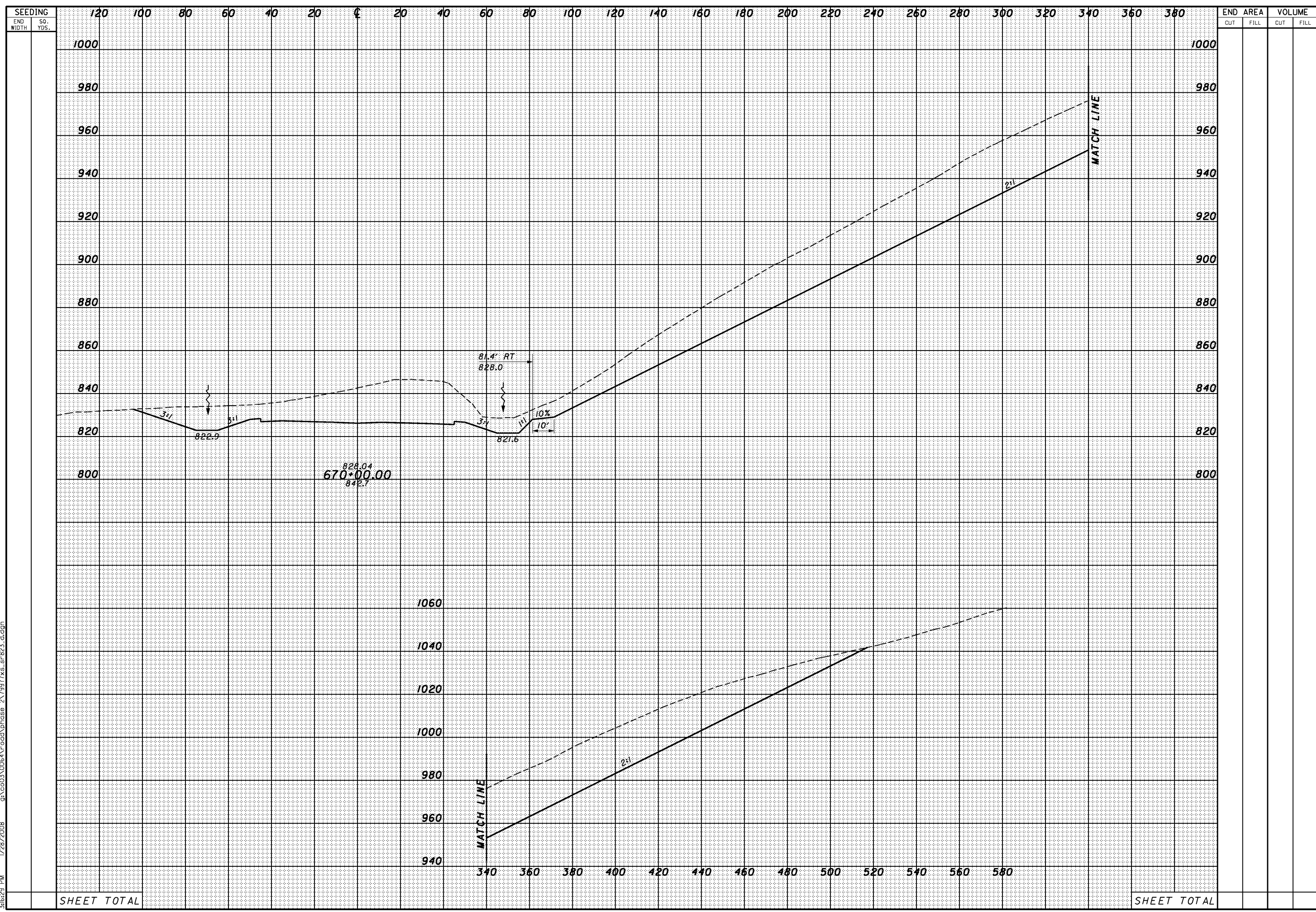
CROSS SECTIONS
SR823 - STA. 669+50.00

SCI-823-10.13



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3/6/23 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

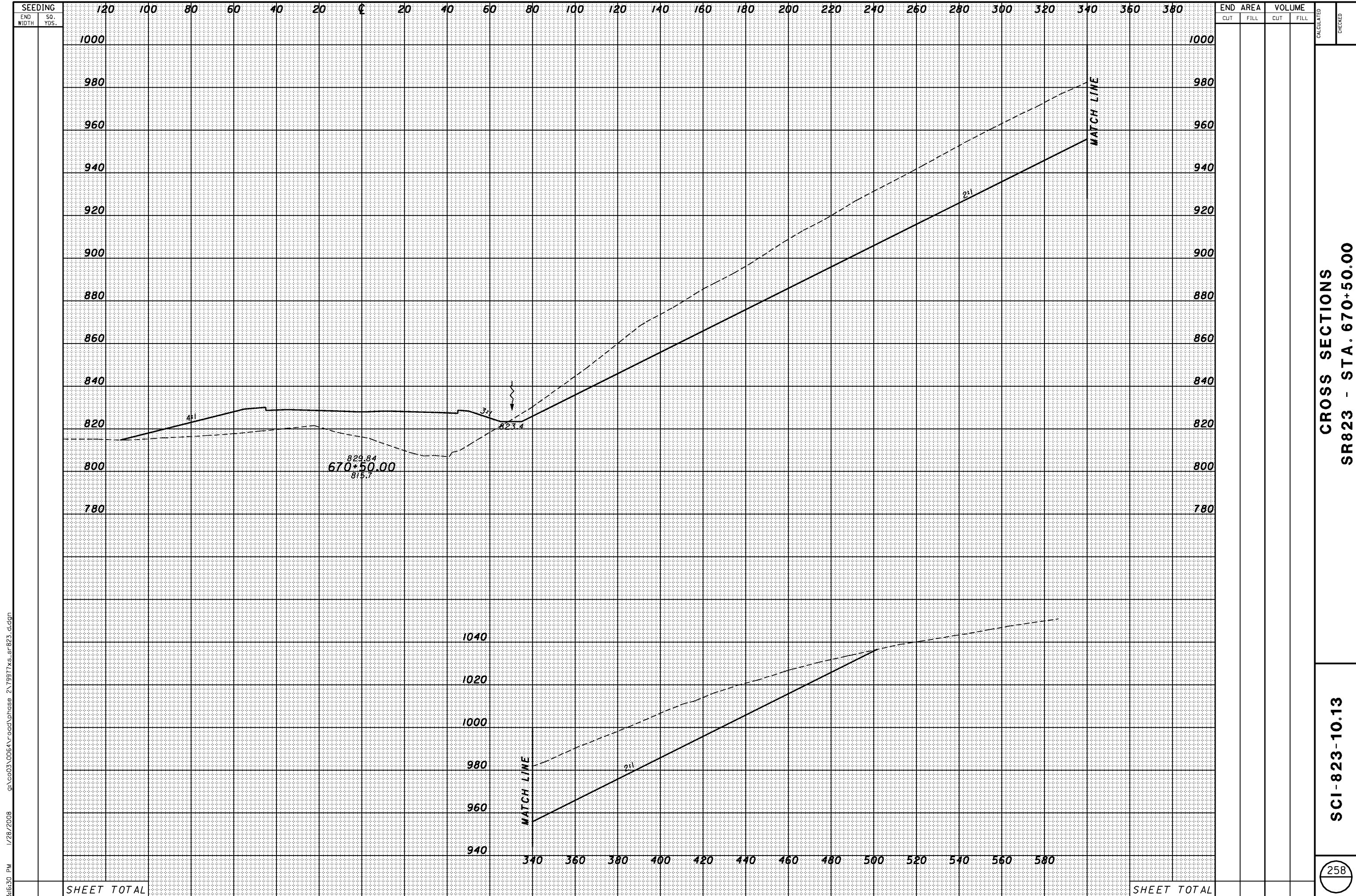
CROSS SECTIONS
SR823 - STA. 670+00.00

SCI-823-10.13

257

SHEET TOTAL

SHEET TOTAL



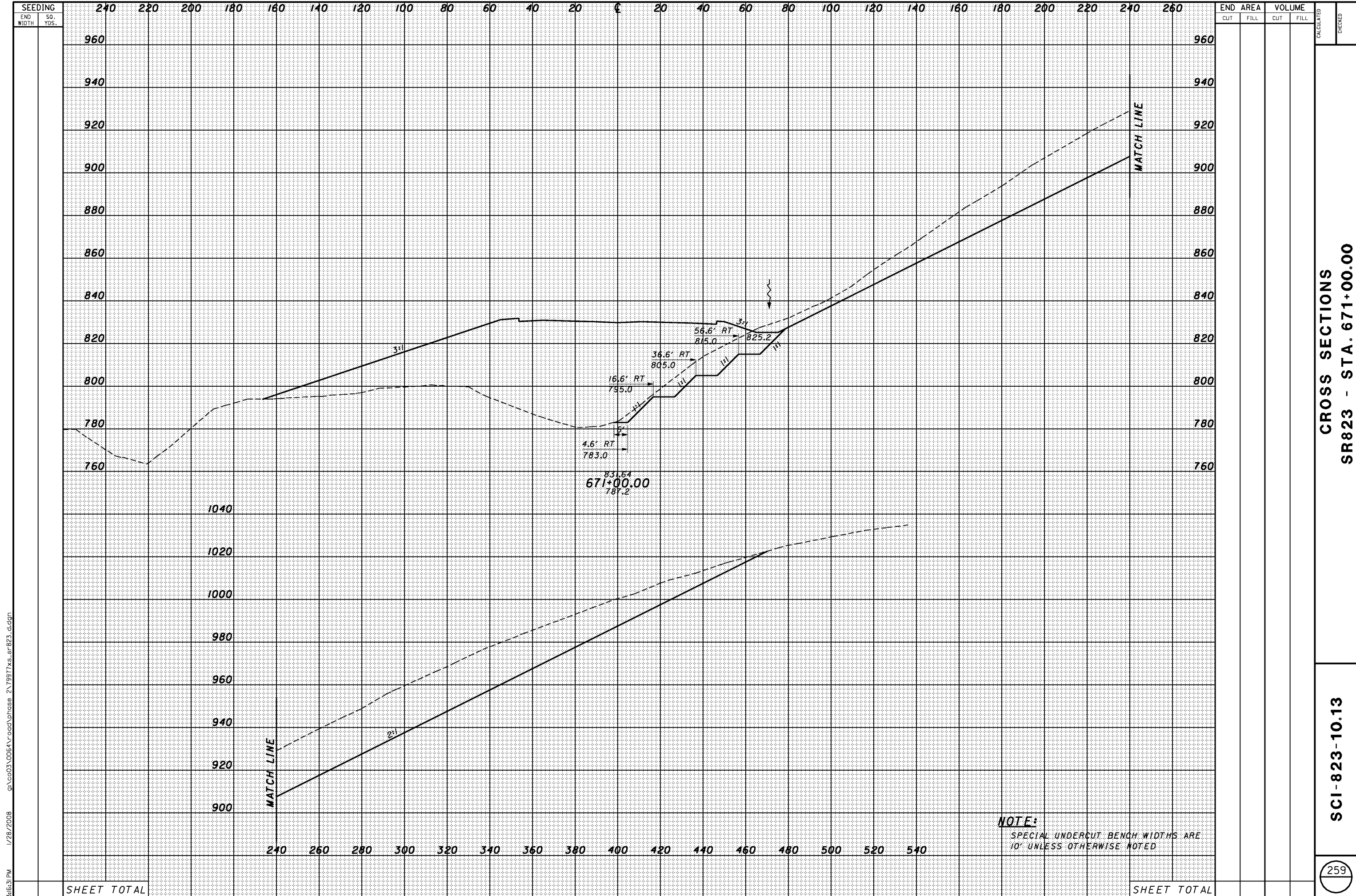
3/16/30 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SHEET TOTAL

SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 670+50.00

SCI-823-10.13



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CROSS SECTIONS
SR823 - STA. 671+00.00

SCI-823-10.13

1/28/2008 3:16:31 PM g:\co03\0064\road\phase 2\79977xs_sr823.dgn

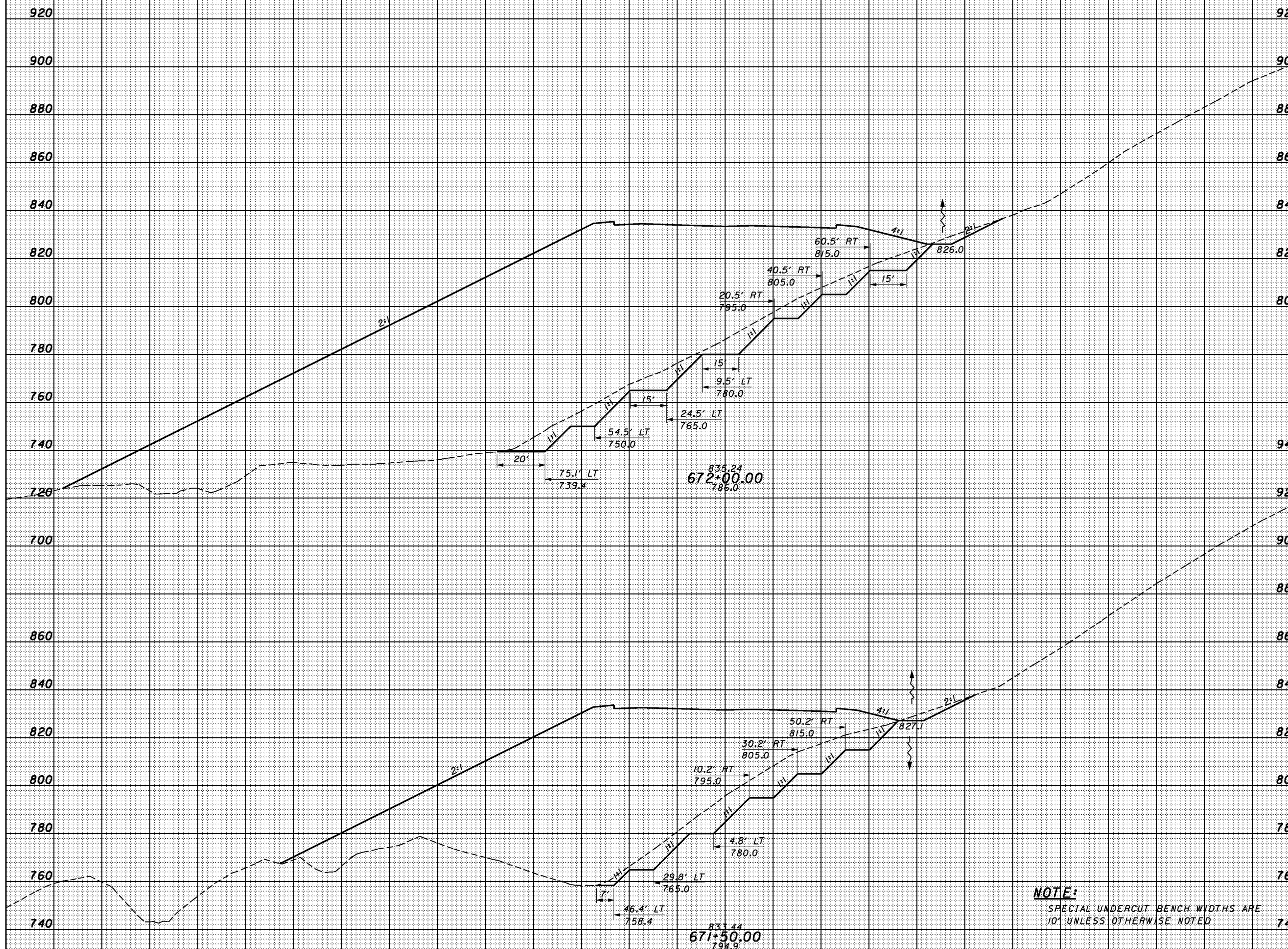
SHEET TOTAL

SHEET TOTAL

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:16:32 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE
10' UNLESS OTHERWISE NOTED

SHEET TOTAL 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 671+50.00 TO STA. 672+00.00

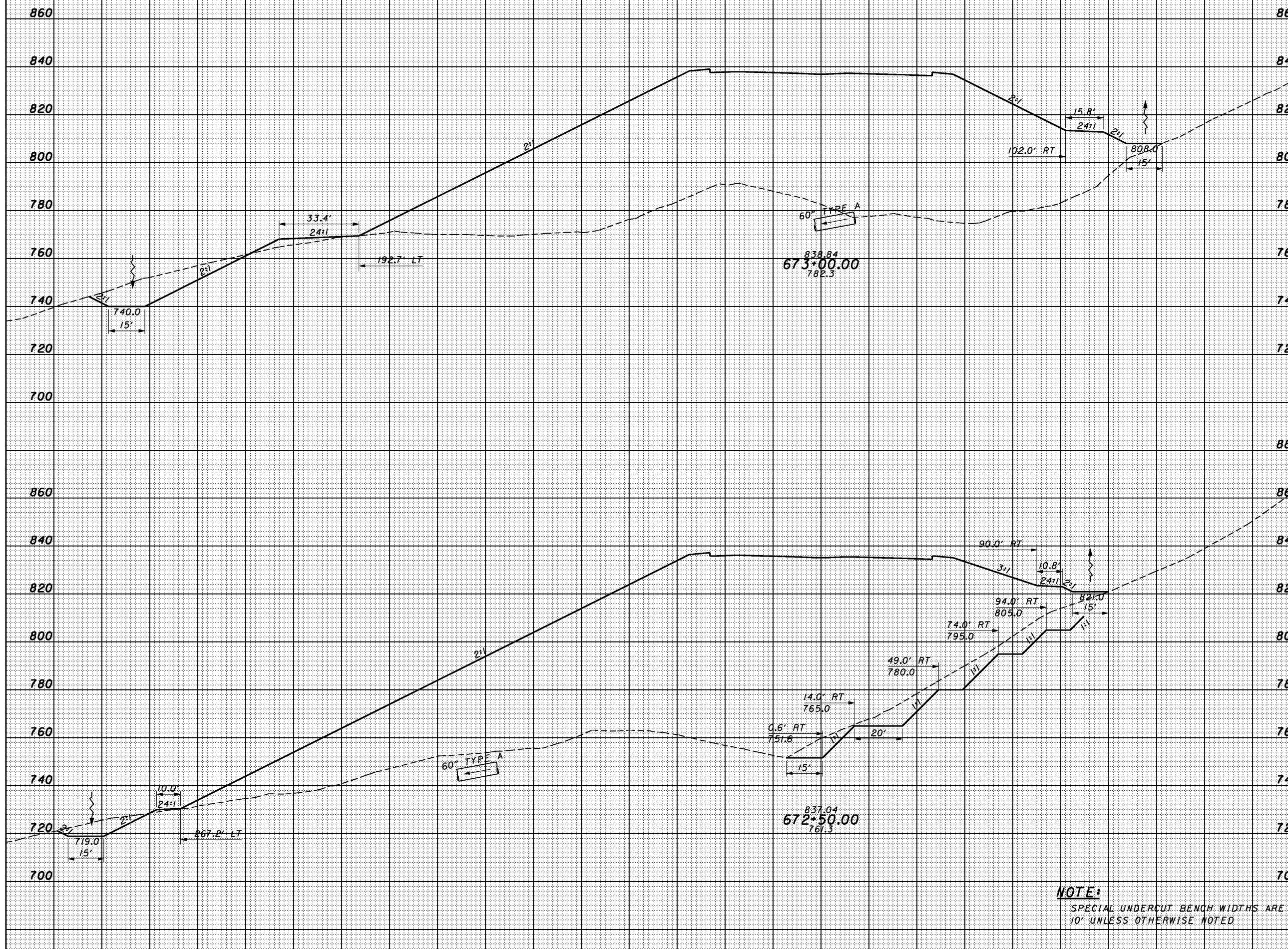
SCI-823-10.13

260

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

3:16:33 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



SHEET TOTAL 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 SHEET TOTAL

NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE
10' UNLESS OTHERWISE NOTED

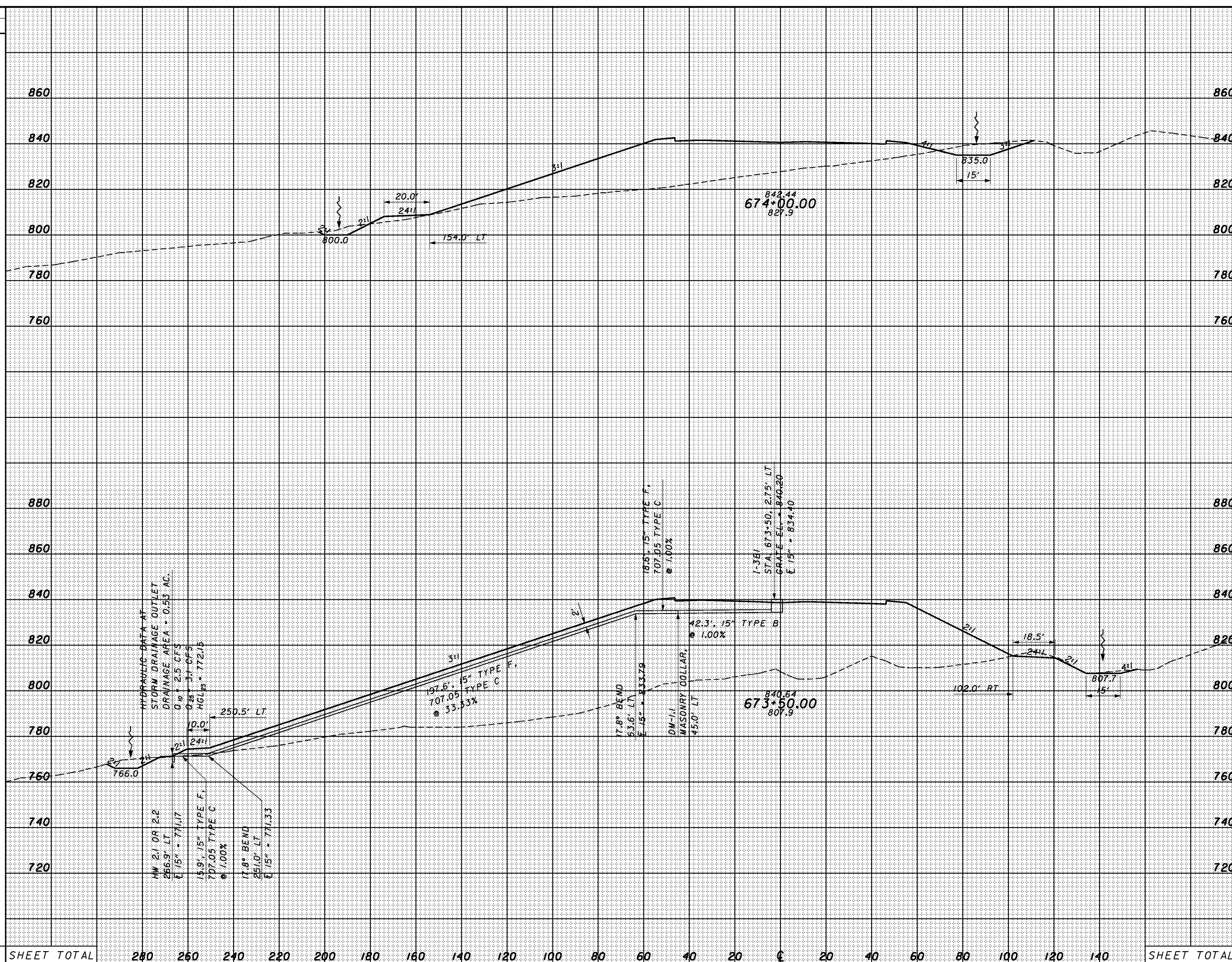
SR823 - STA. 672+50.00 TO STA. 673+00.00

SCI-823-10.13

3:16:34 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	SHEET TOTAL

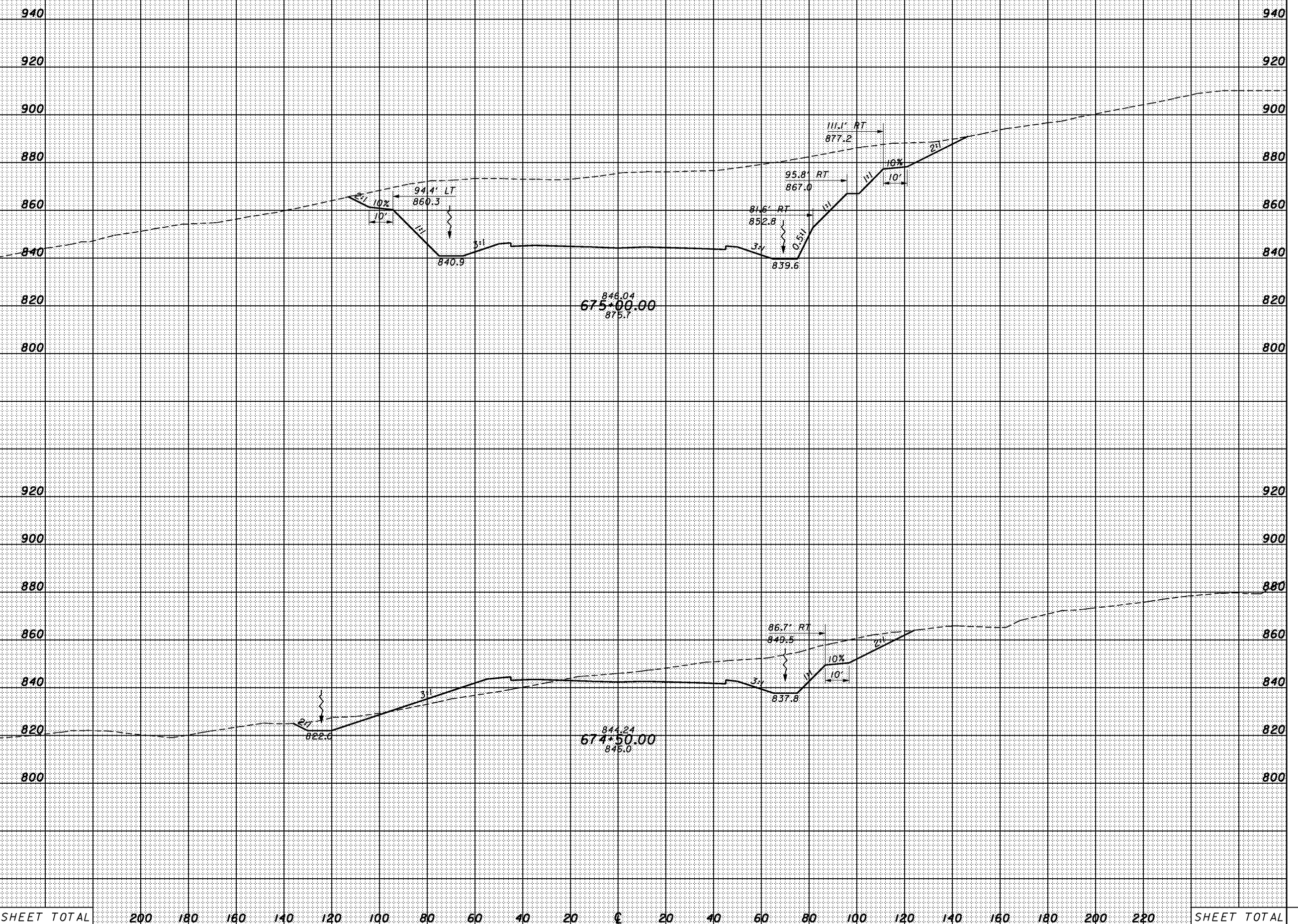
CROSS SECTIONS
SR823 - STA. 673+50.00 TO STA. 674+00.00

SCI-823-10.13

3:16:35 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 674+50.00 TO STA. 675+00.00

SCI-823-10.13

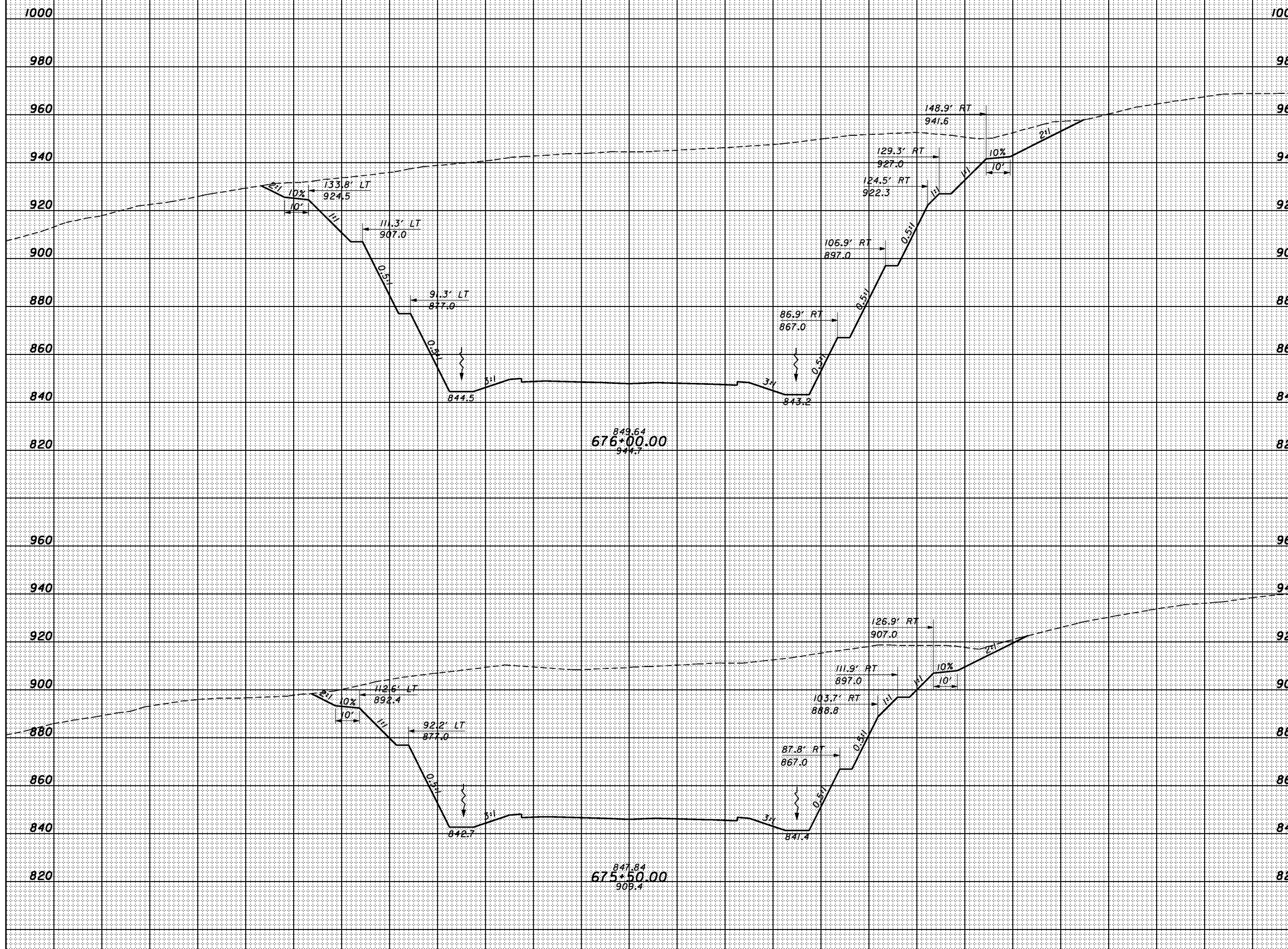
SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

1000
980
960
940
920
900
880
860
840
820
960
940
920
900
880
860
840
820

1000
980
960
940
920
900
880
860
840
820
960
940
920
900
880
860
840
820

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SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

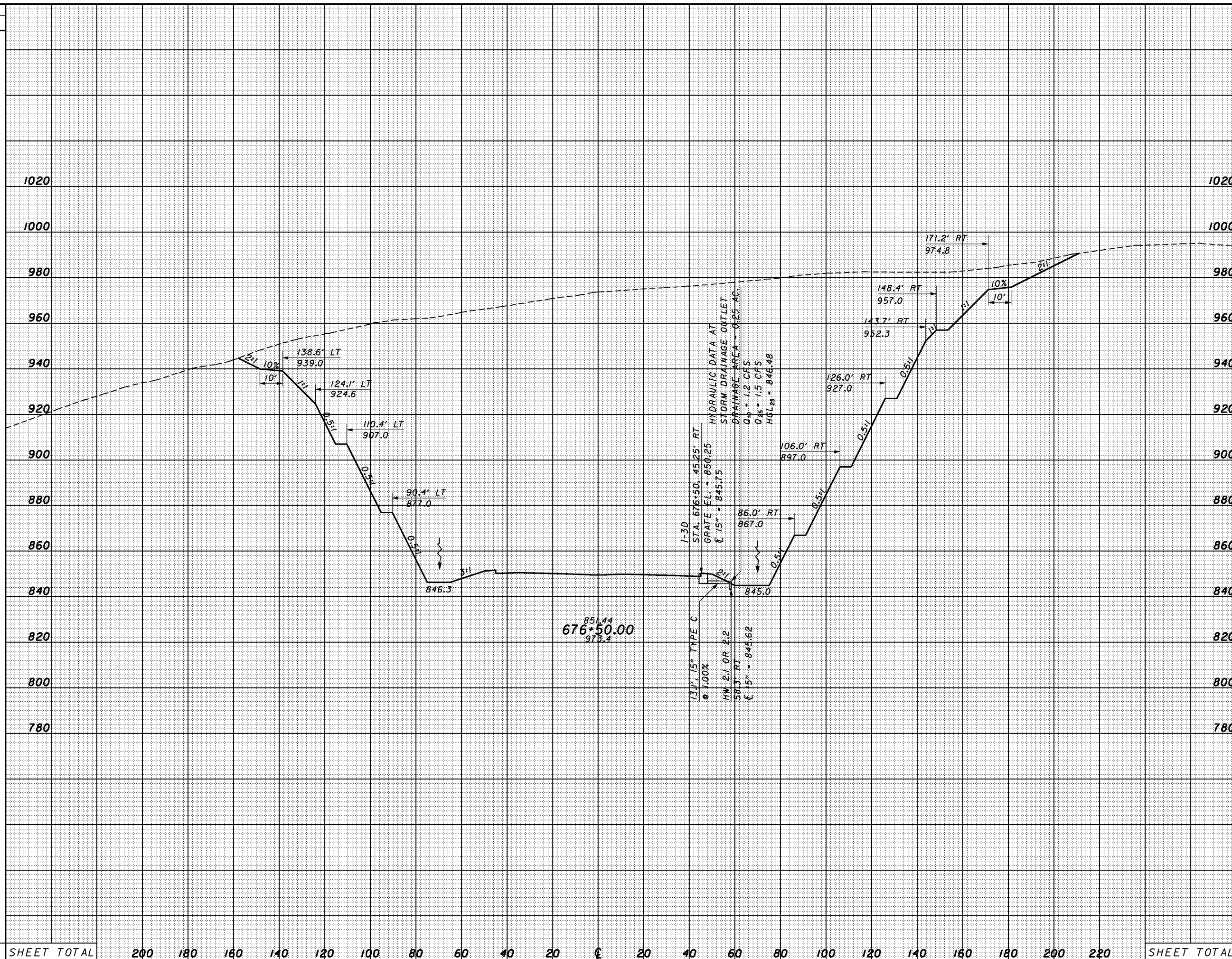
CROSS SECTIONS
SR823 - STA. 675+50.00 TO STA. 676+00.00

SCI-823-10.13

3:16:37 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 676+50.00

SCI-823-10.13

3:16:39 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

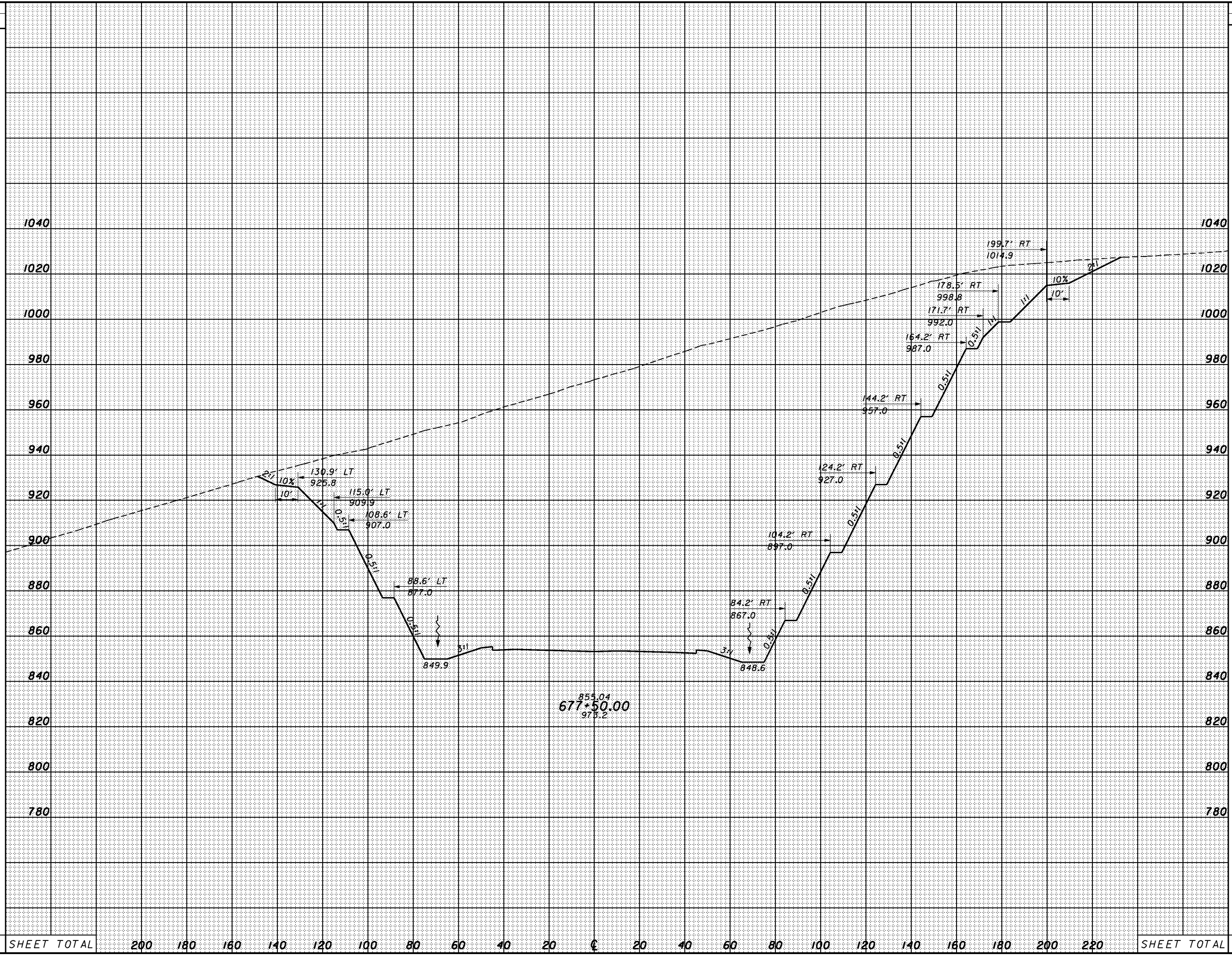
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 677+50.00

SCI-823-10.13

267



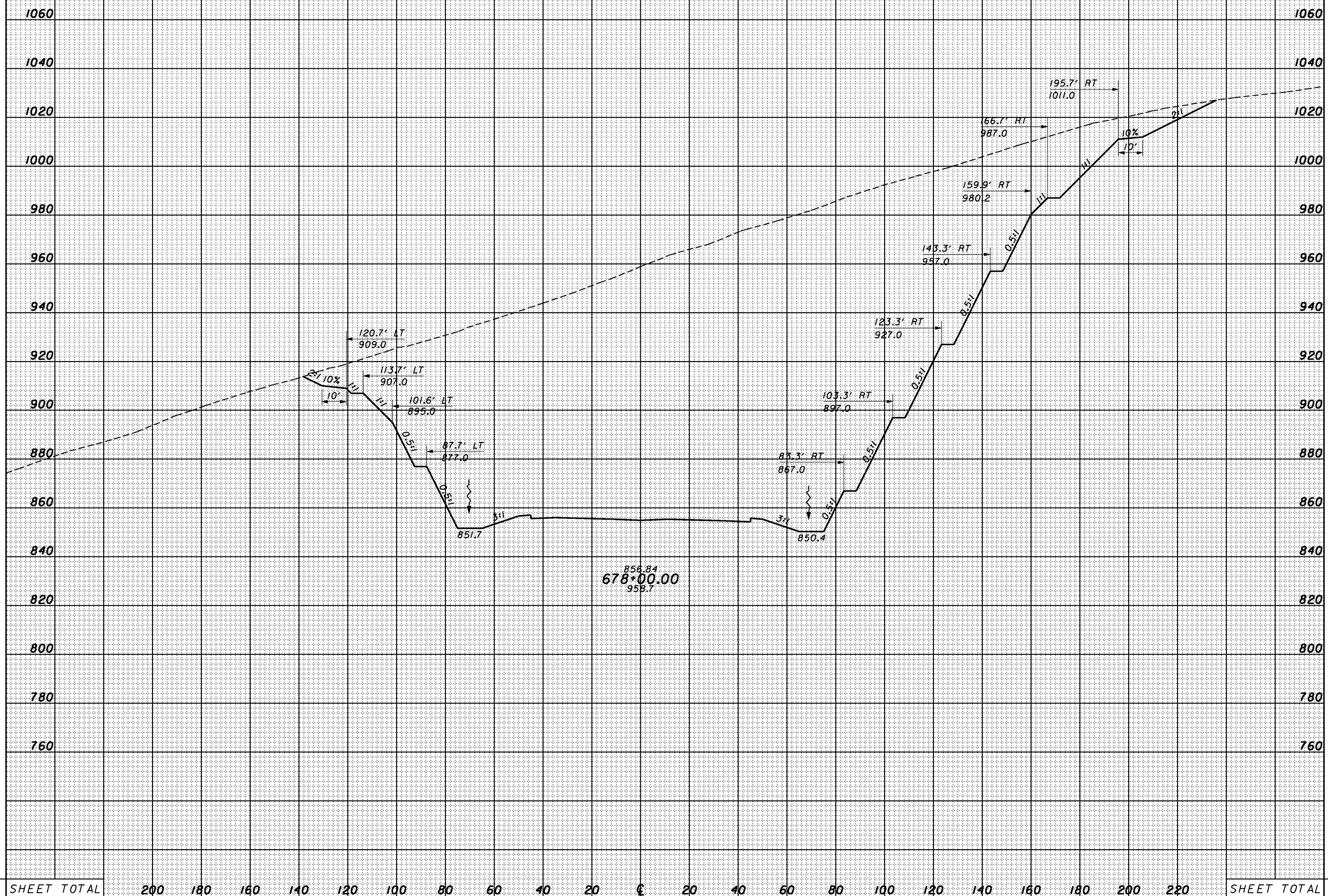
855.04
677+50.00
975.2

SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3:16:40 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

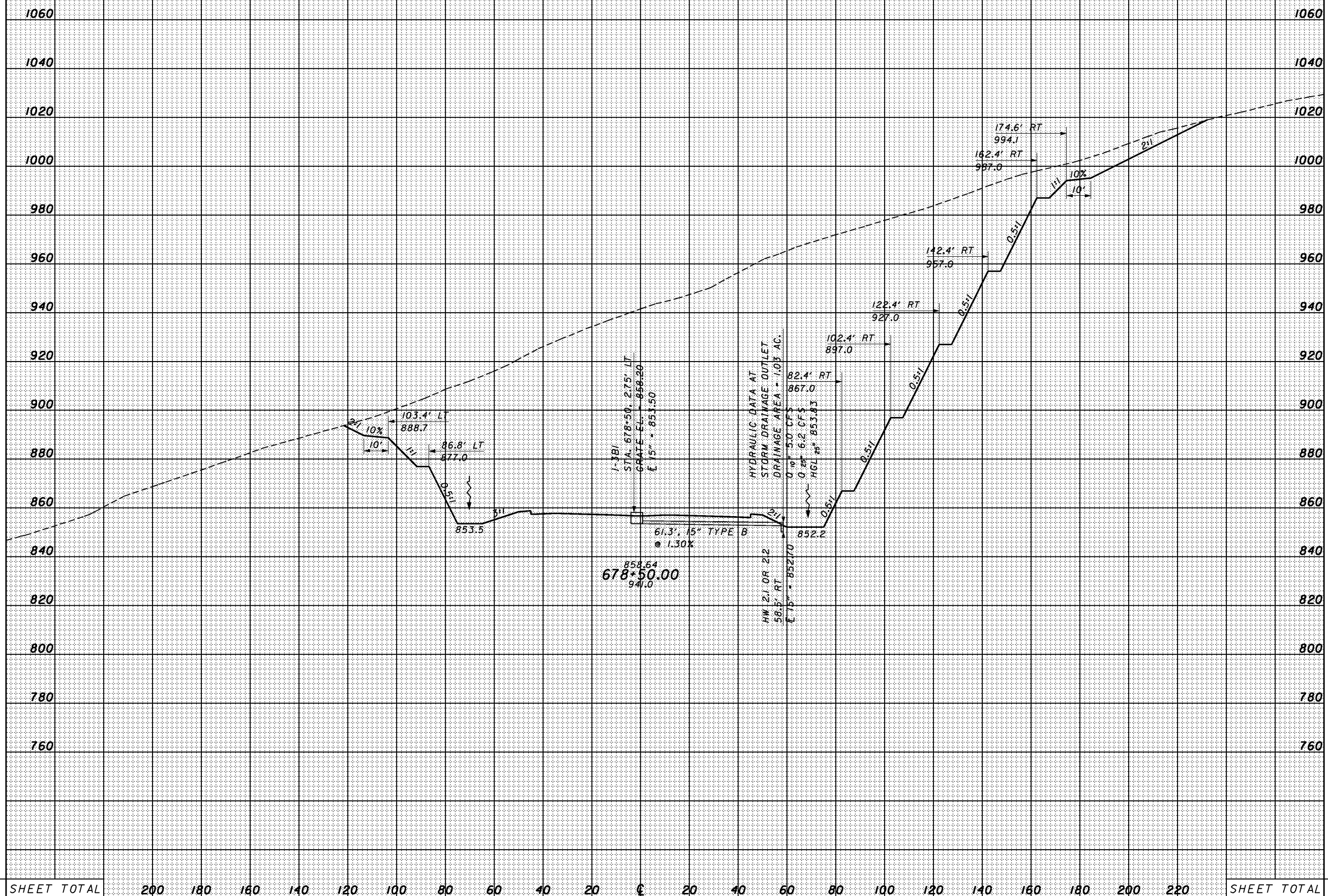
CROSS SECTIONS
SR823 - STA. 678+00.00

SCI-823-10.13

3:16:40 PM 1/28/2008 g:\co03\0064\road\phase 2\7997\ss_sr823.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS
SR823 - STA. 678+50.00

SCI-823-10.13

3:16:41 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED

CROSS SECTIONS
SR823 - STA. 679+00.00

SCI-823-10.13

270

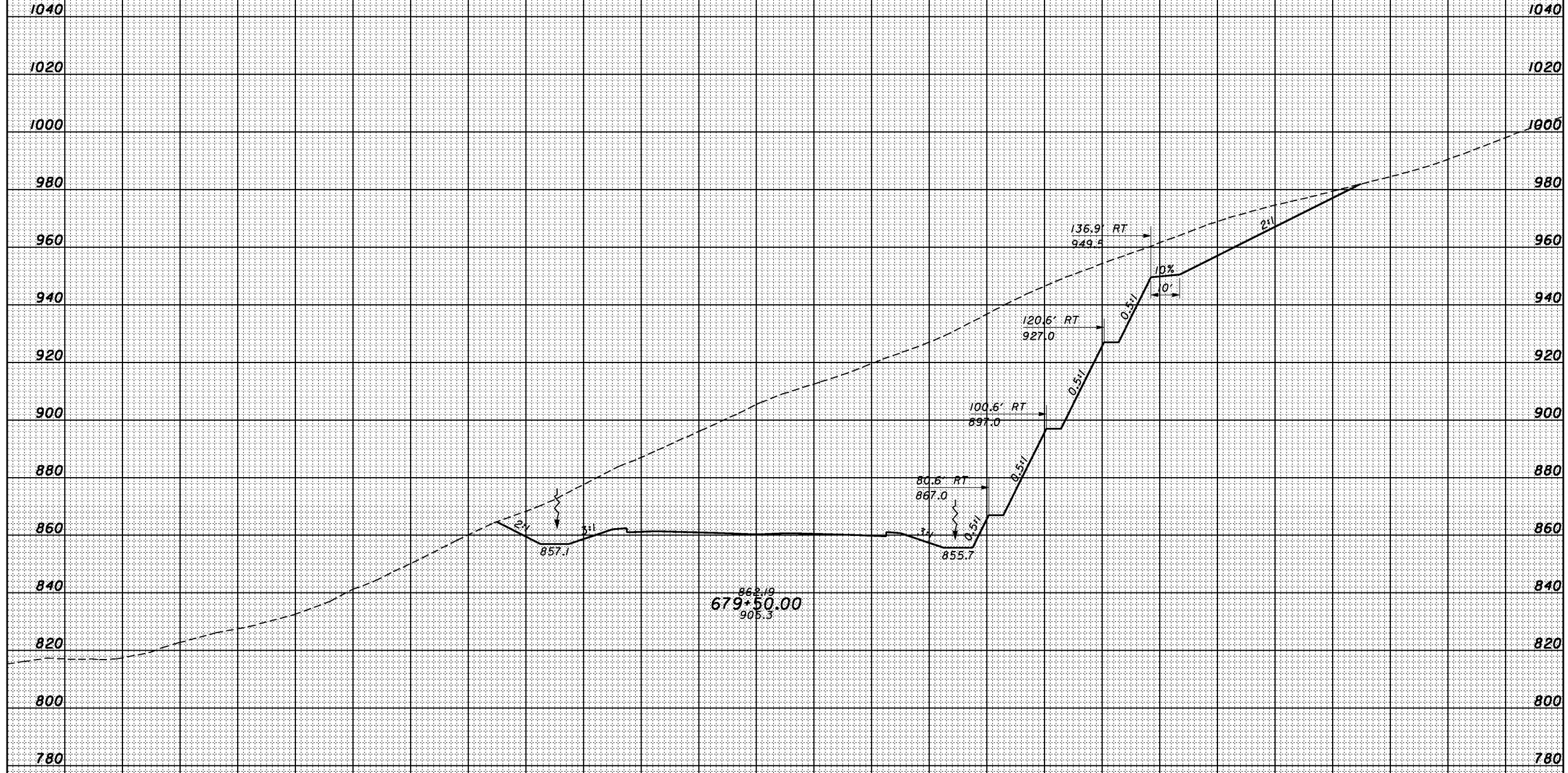


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3:16:42 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



862.19
679+50.00
905.3

SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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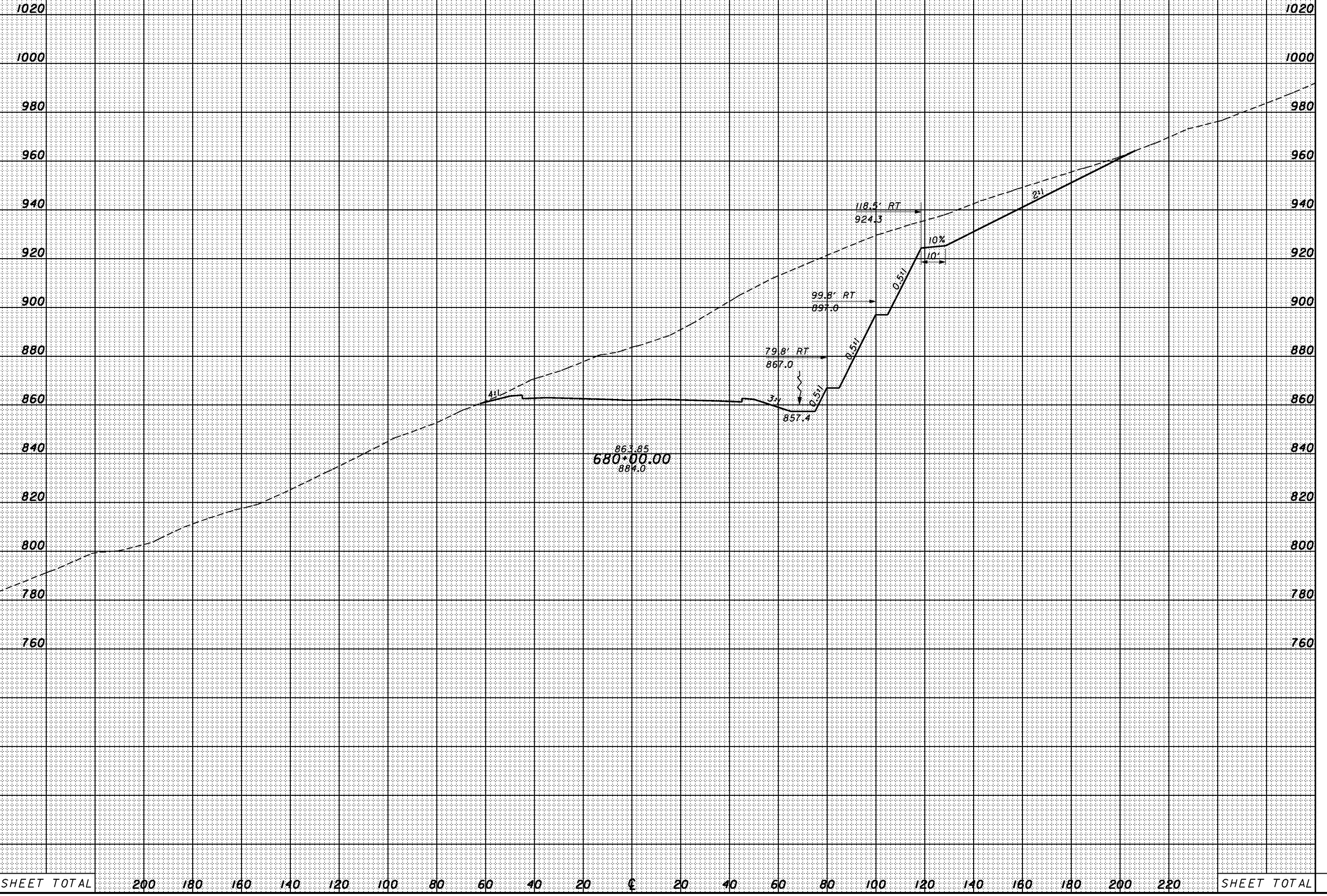
CROSS SECTIONS
SR823 - STA. 679+50.00

SCI-823-10.13

3:16:43 PM 1/28/2008 g:\coo03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL		200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL		

CROSS SECTIONS
SR823 - STA. 680+00.00

SCI-823-10.13

3:16:44 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

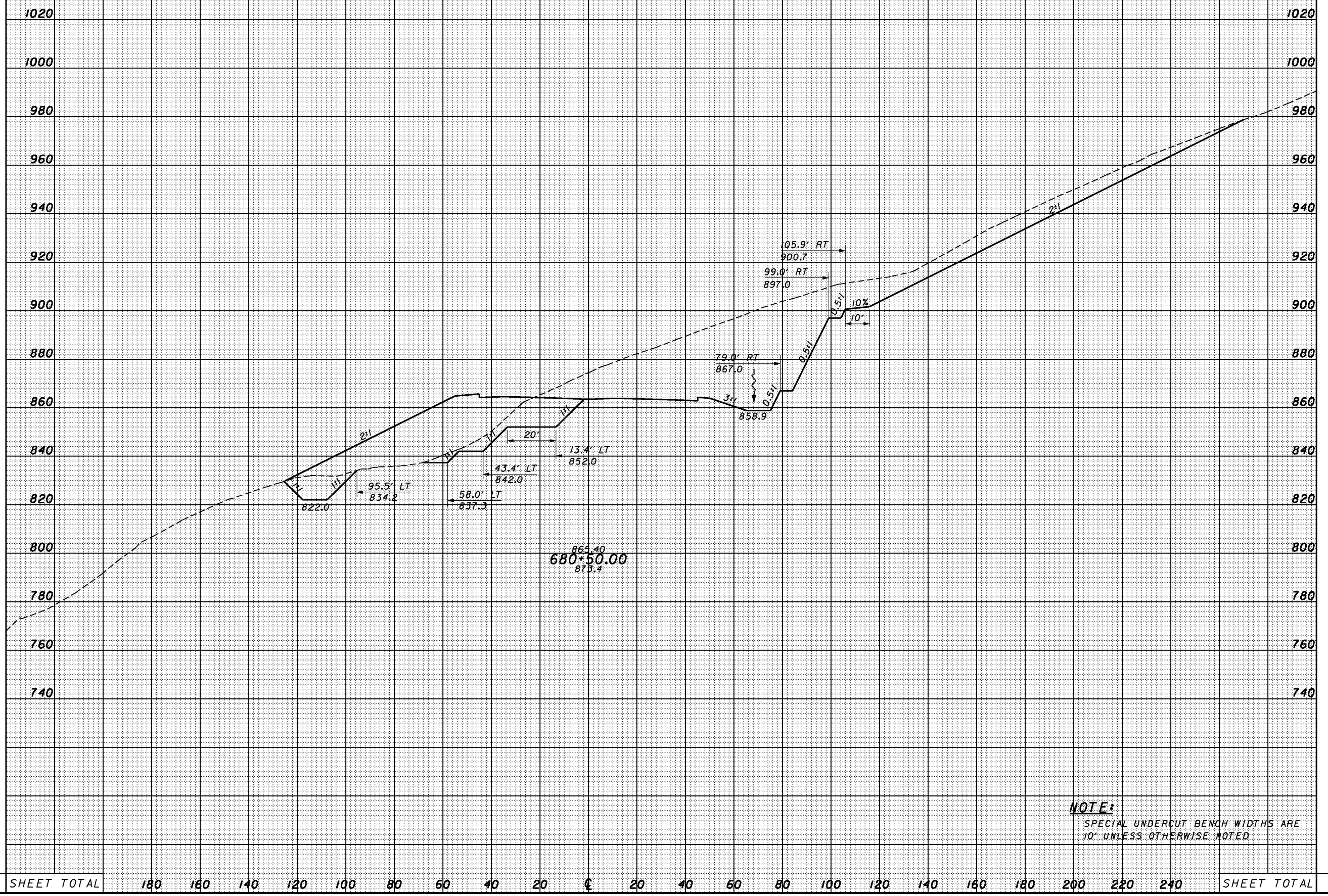
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 680+50.00

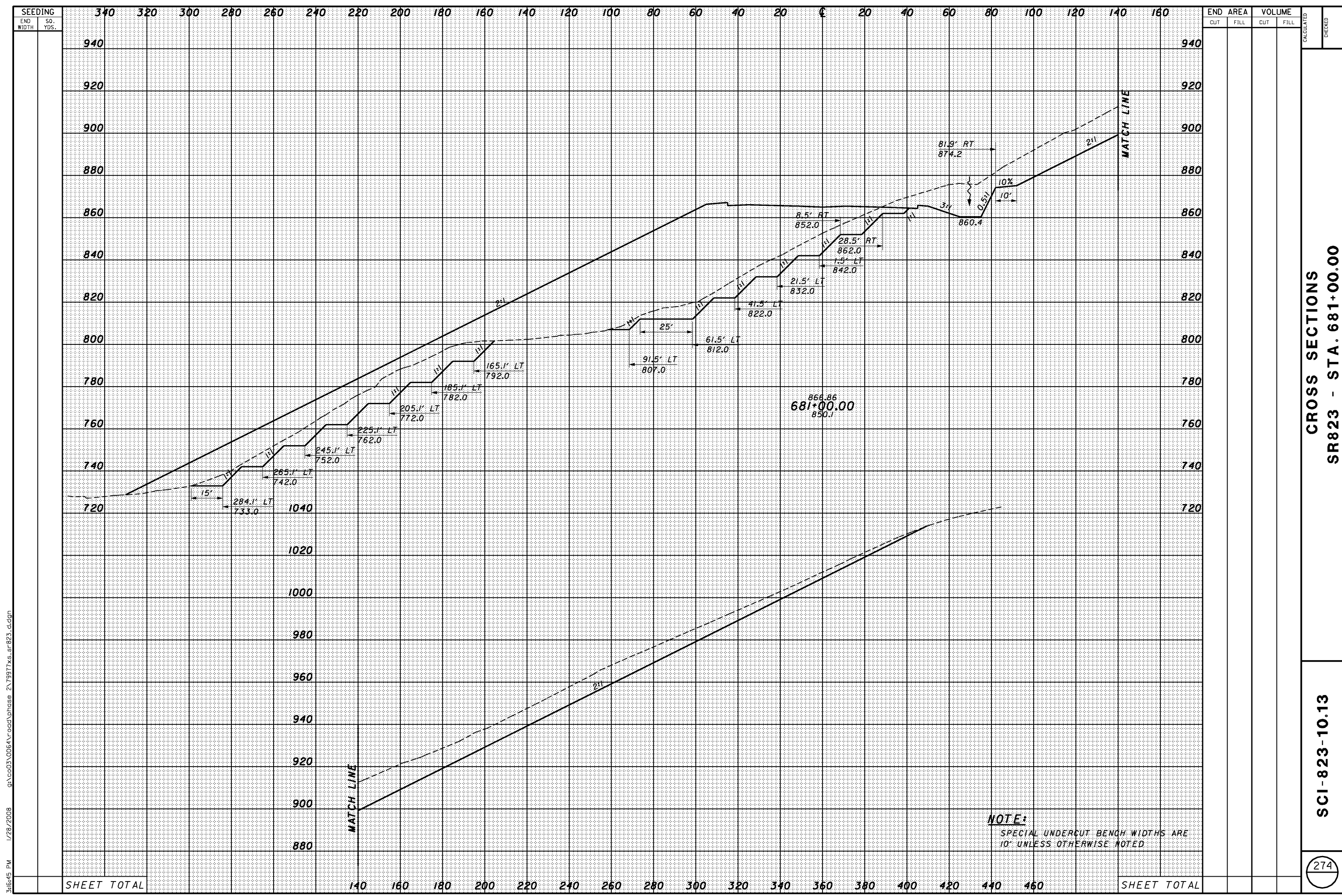
SCI-823-10.13

273



NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE
10' UNLESS OTHERWISE NOTED

SHEET TOTAL	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	240	SHEET TOTAL
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3:16:45 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

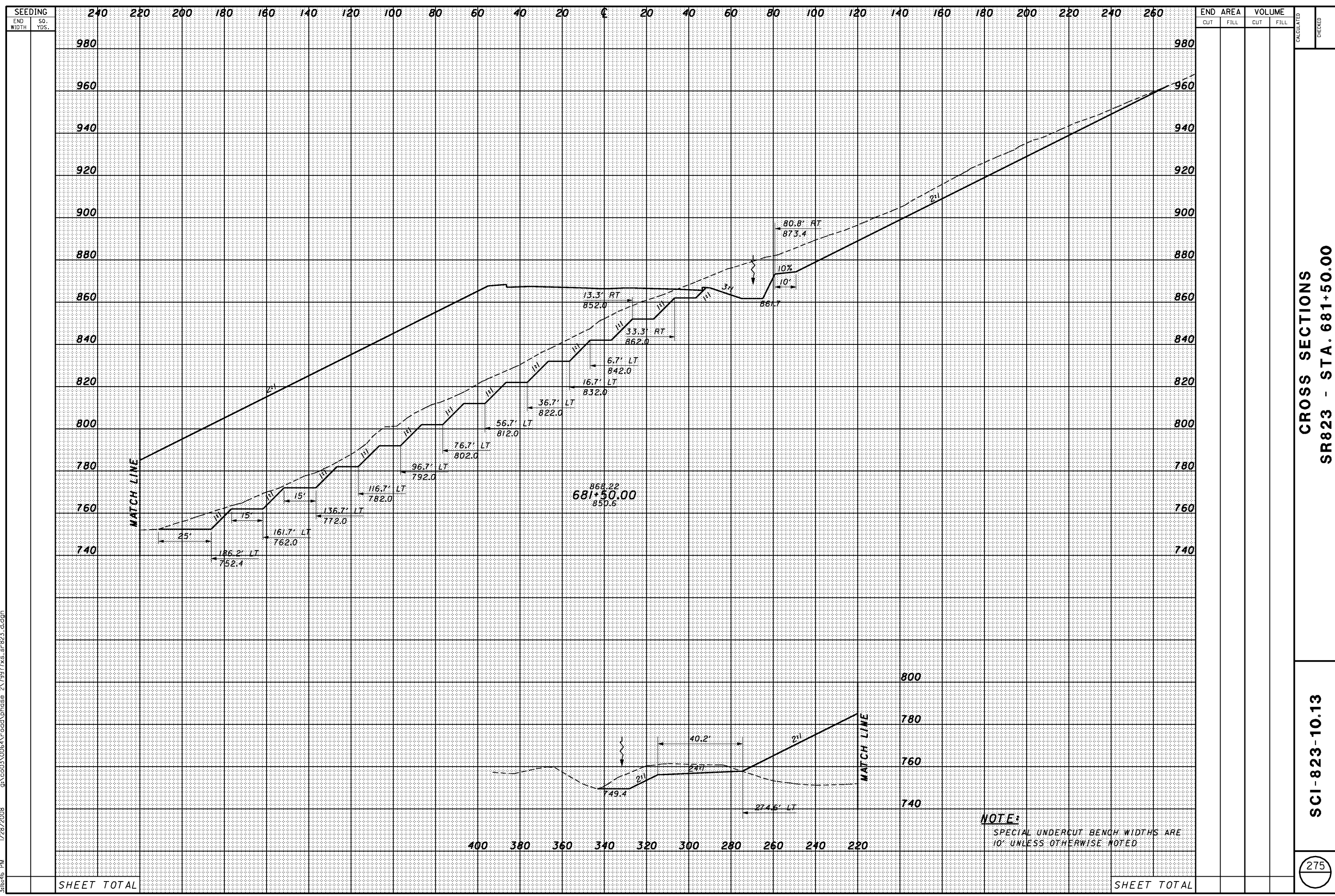
END	AREA		VOLUME		CALCULATED	CHECKED
	CUT	FILL	CUT	FILL		
940						
920						
900						
880						
860						
840						
820						
800						
780						
760						
740						
720						
1020						
1000						
980						
960						
940						
920						
900						
880						
SHEET TOTAL						

CROSS SECTIONS
SR823 - STA. 681+00.00

SCI-823-10.13

NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE
10' UNLESS OTHERWISE NOTED

3/16/16 PM 1/28/2008 g:\co03\0064\Road\Phase 2\79977xs_sr823.dgn



SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		

CROSS SECTIONS
SR823 - STA. 681+50.00

SCI-823-10.13

275

NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE 10' UNLESS OTHERWISE NOTED

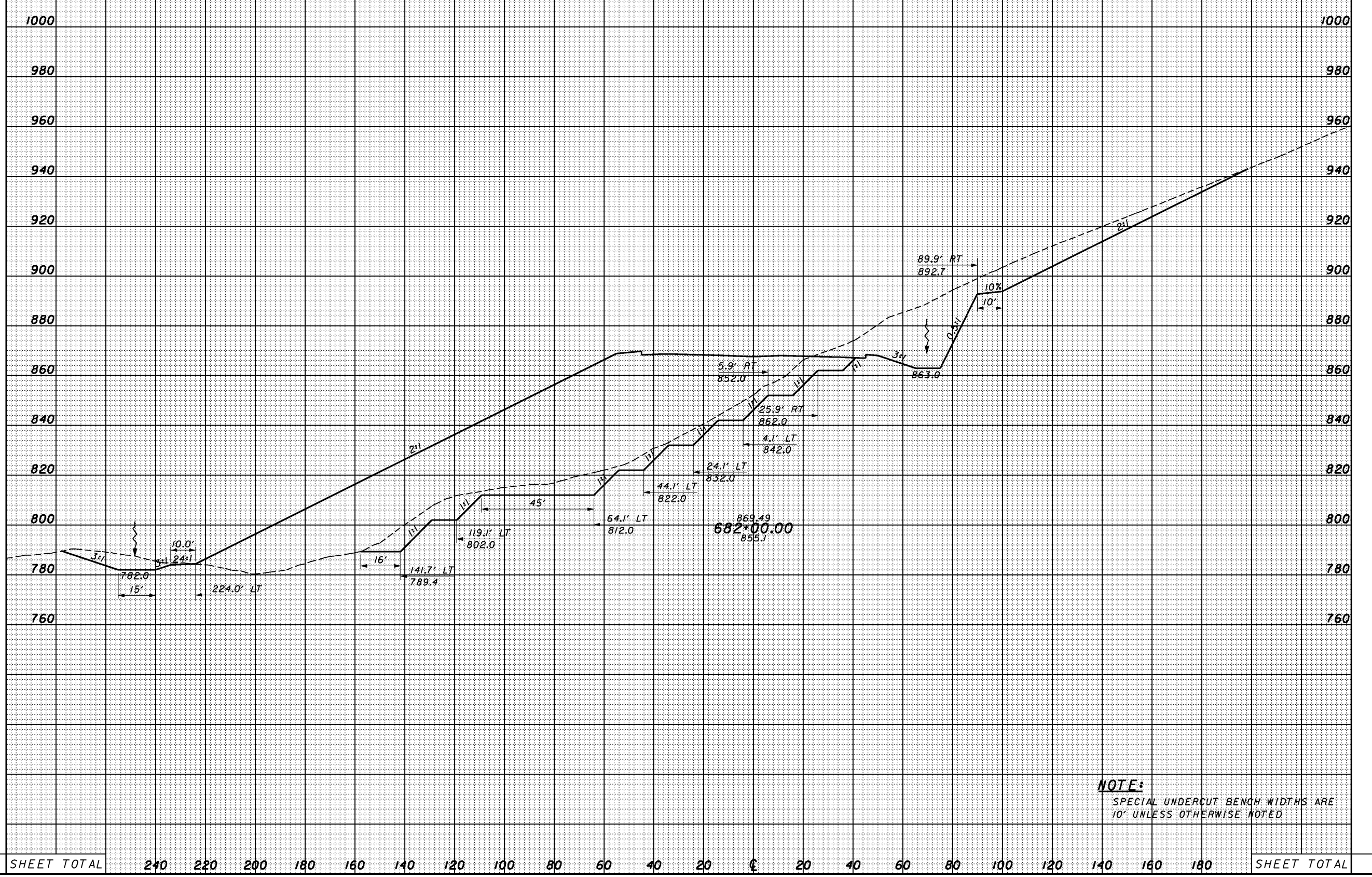
SHEET TOTAL

SHEET TOTAL

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED



NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE
10' UNLESS OTHERWISE NOTED

SHEET TOTAL	240	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 682+00.00

SCI-823-10.13

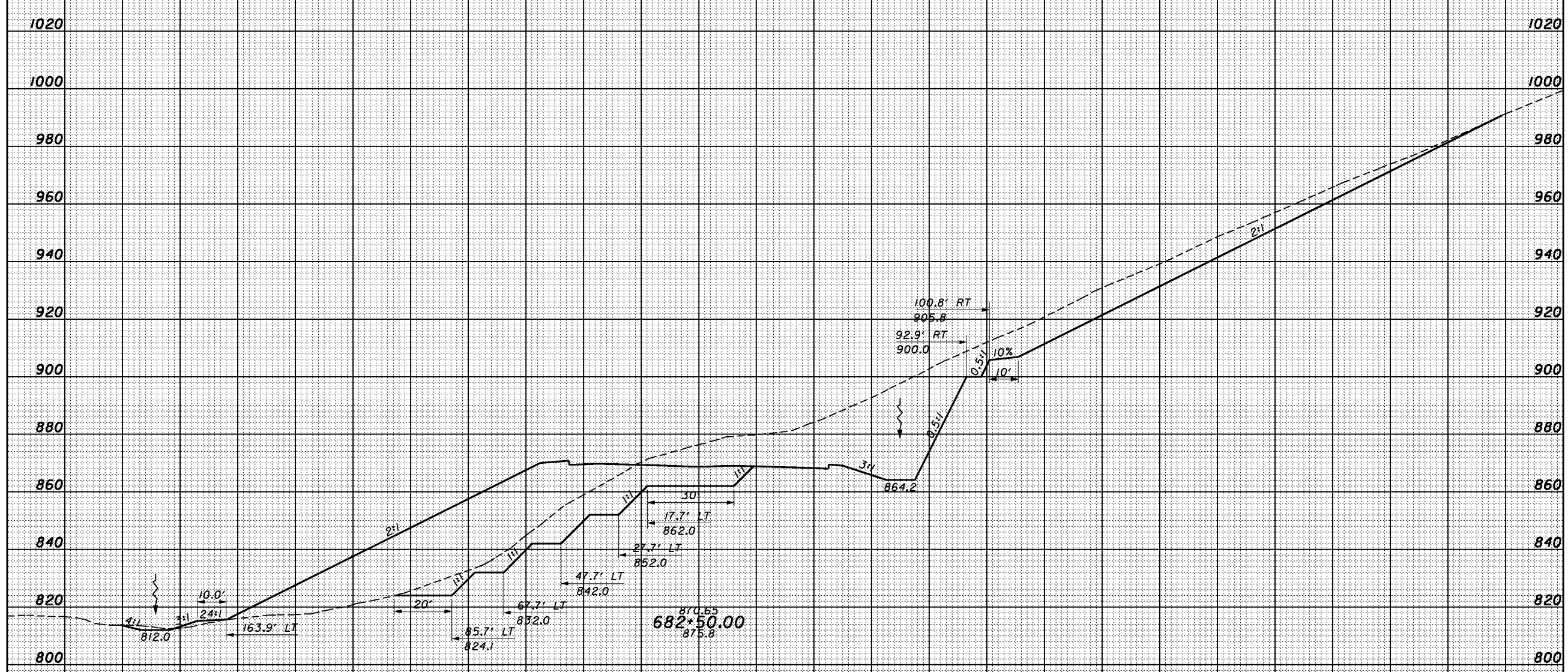
276

3:16:47 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:16:48 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE
10' UNLESS OTHERWISE NOTED

SHEET TOTAL	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	240	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 682+50.00

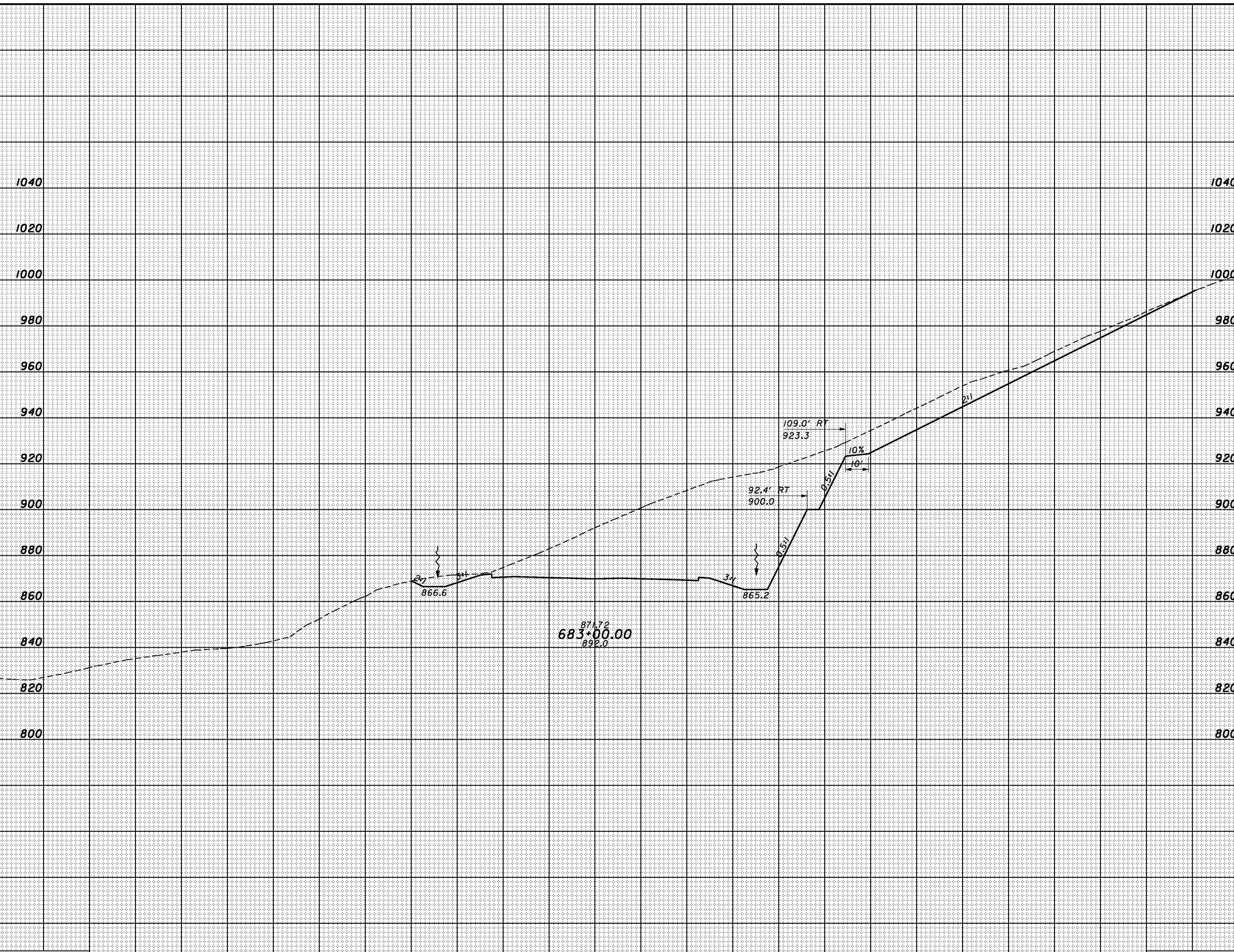
SCI-823-10.13

277

3:16:49 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 683+00.00

SCI-823-10.13

3:16:50 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

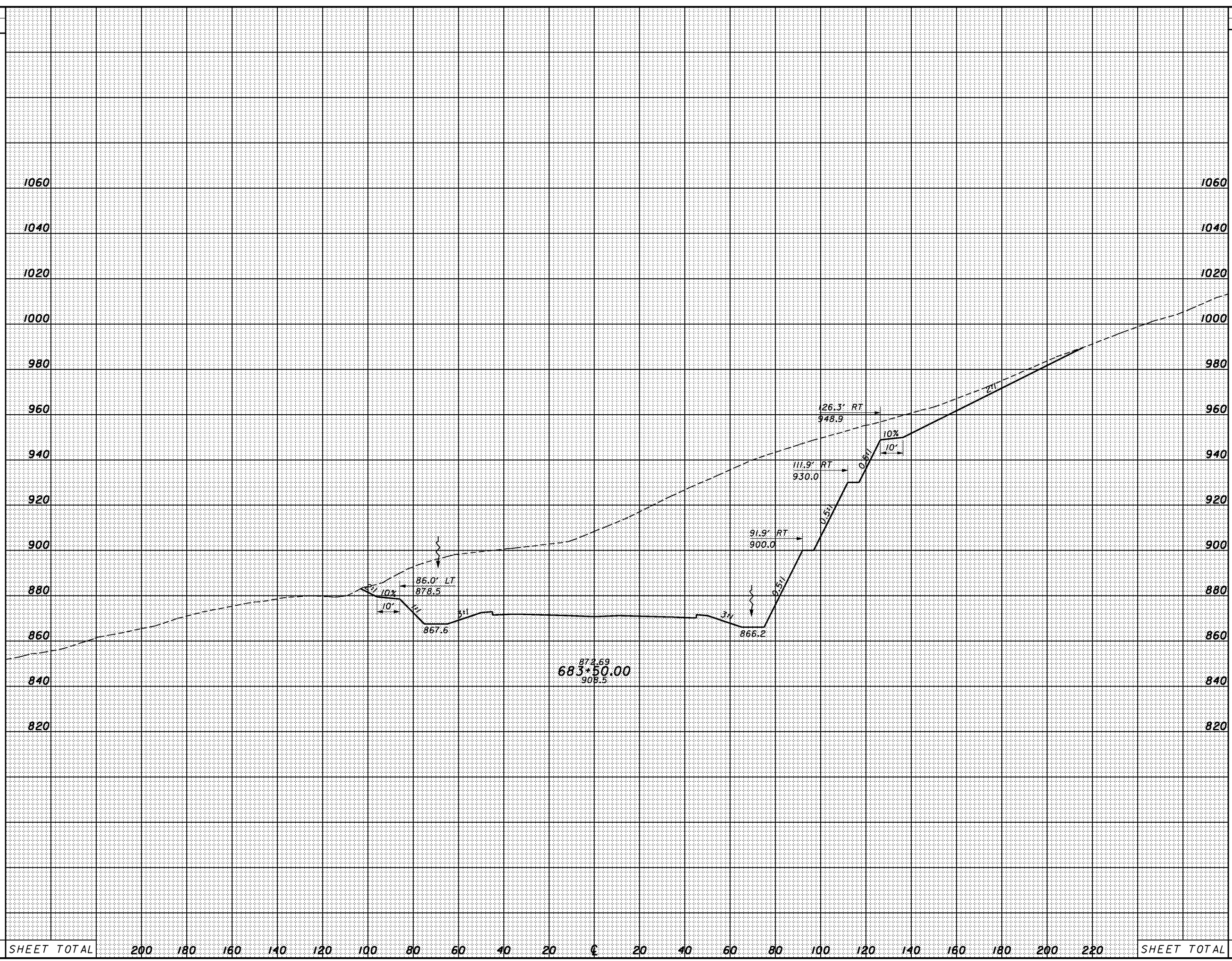
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 683+50.00

SCI-823-10.13

279

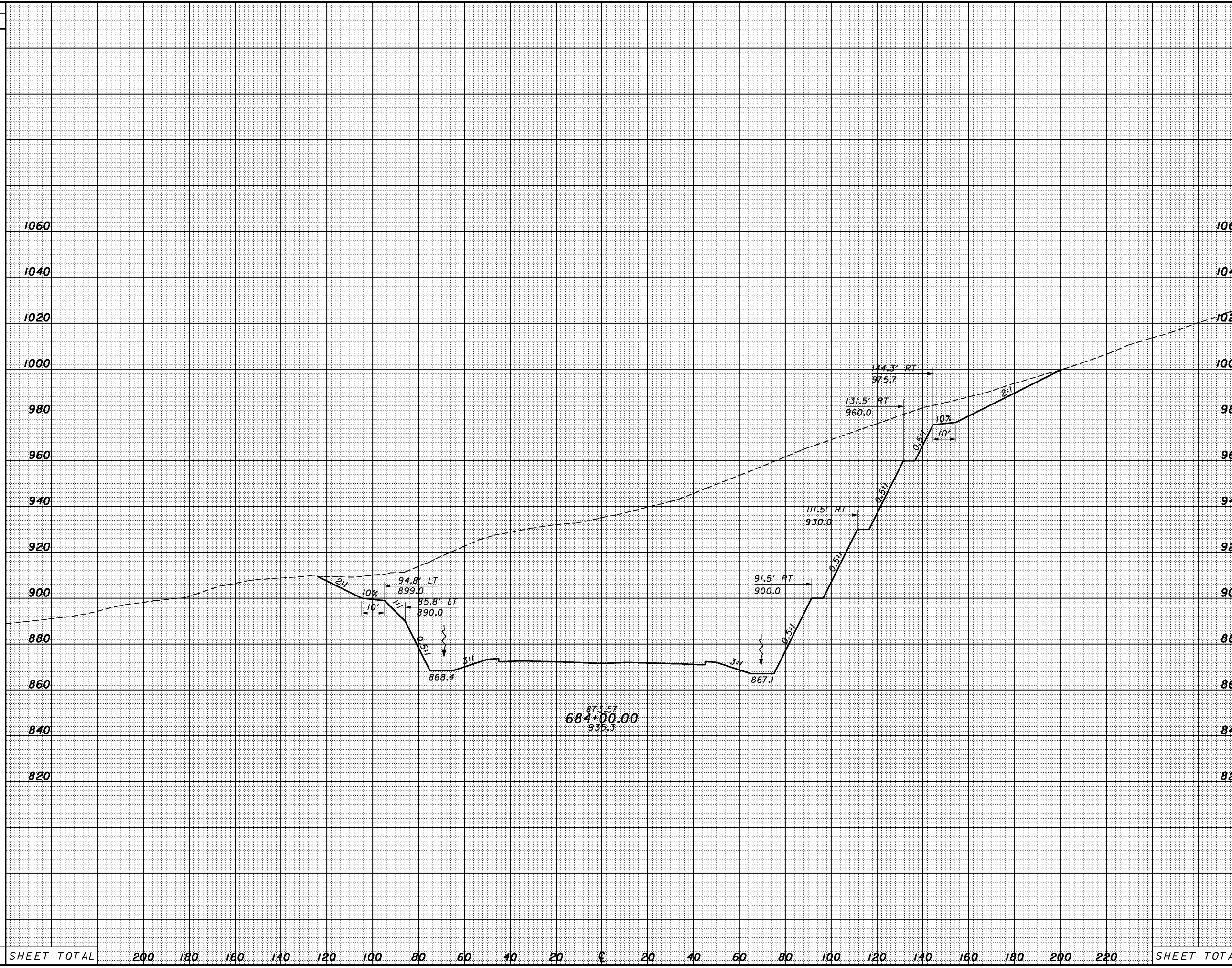


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

3:16:50 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



SEEDING	END WIDTH	SO. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL	CALCULATED	CHECKED

CROSS SECTIONS
SR823 - STA. 684+00.00

SCI-823-10.13

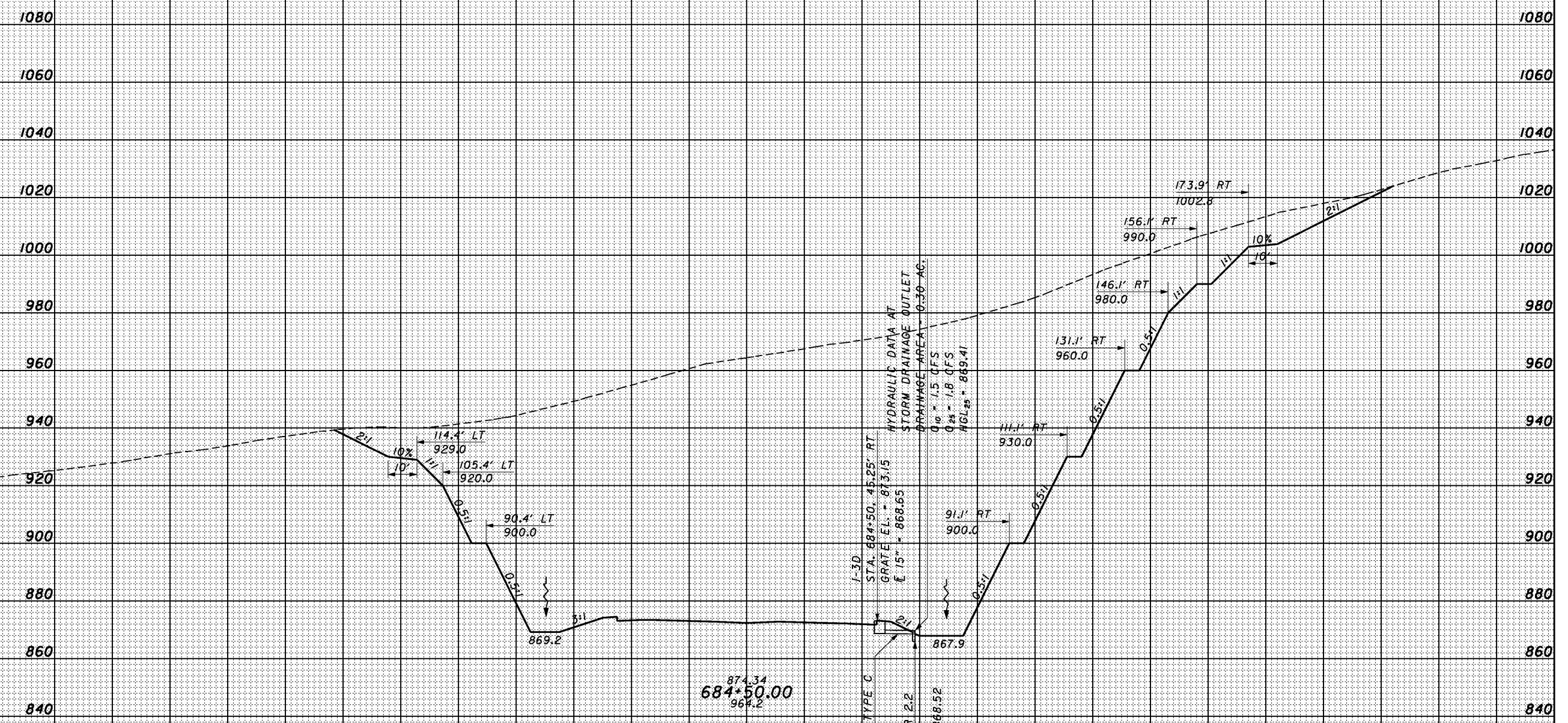
280

3:16:51 PM 1/28/2008 g:\co03\0064\road\phase 2\79917xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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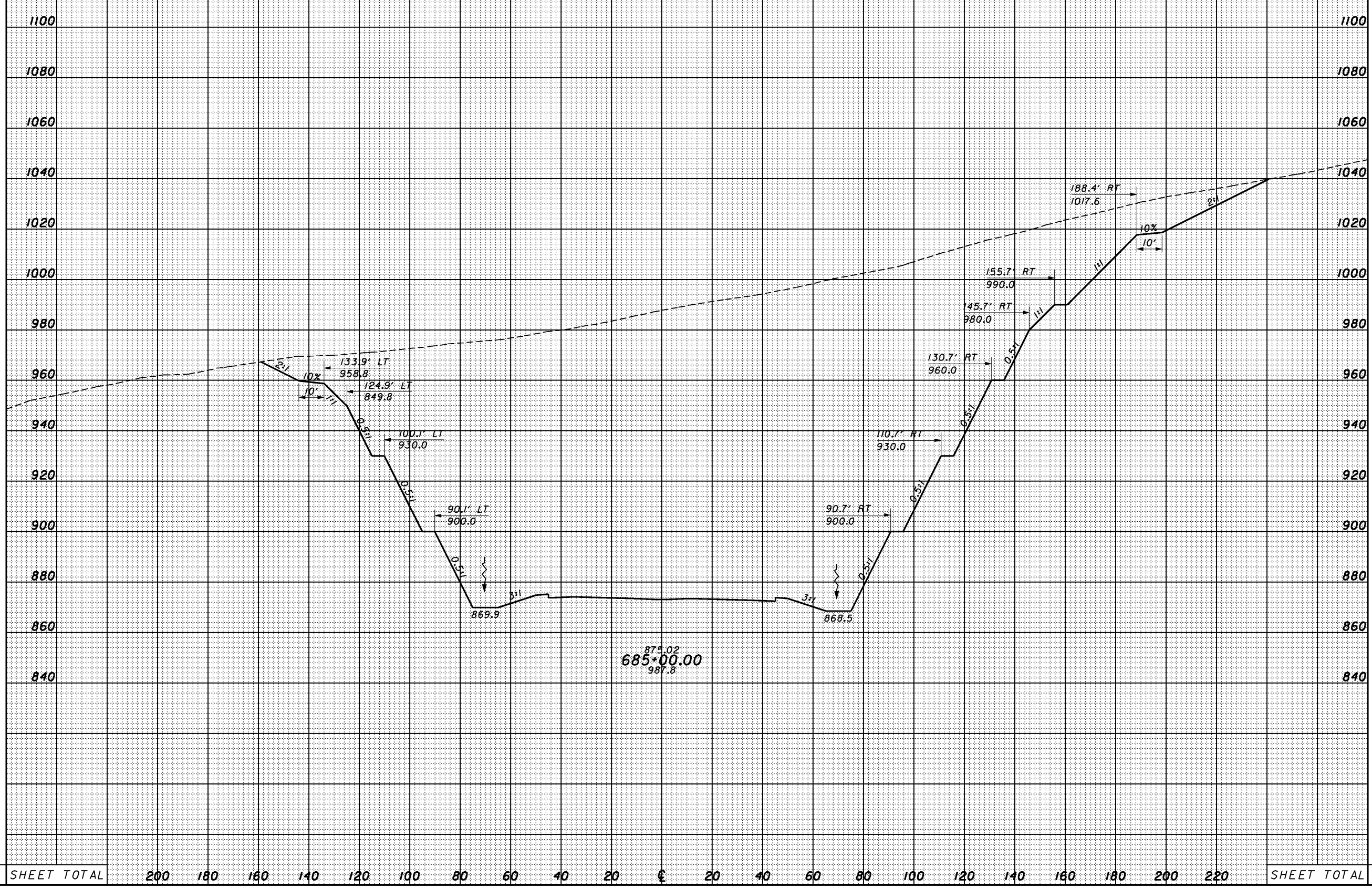
CROSS SECTIONS
SR823 - STA. 684+50.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:16:52 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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875.02
685+00.00
987.8

CROSS SECTIONS
SR823 - STA. 685+00.00

SCI-823-10.13

3:16:53 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

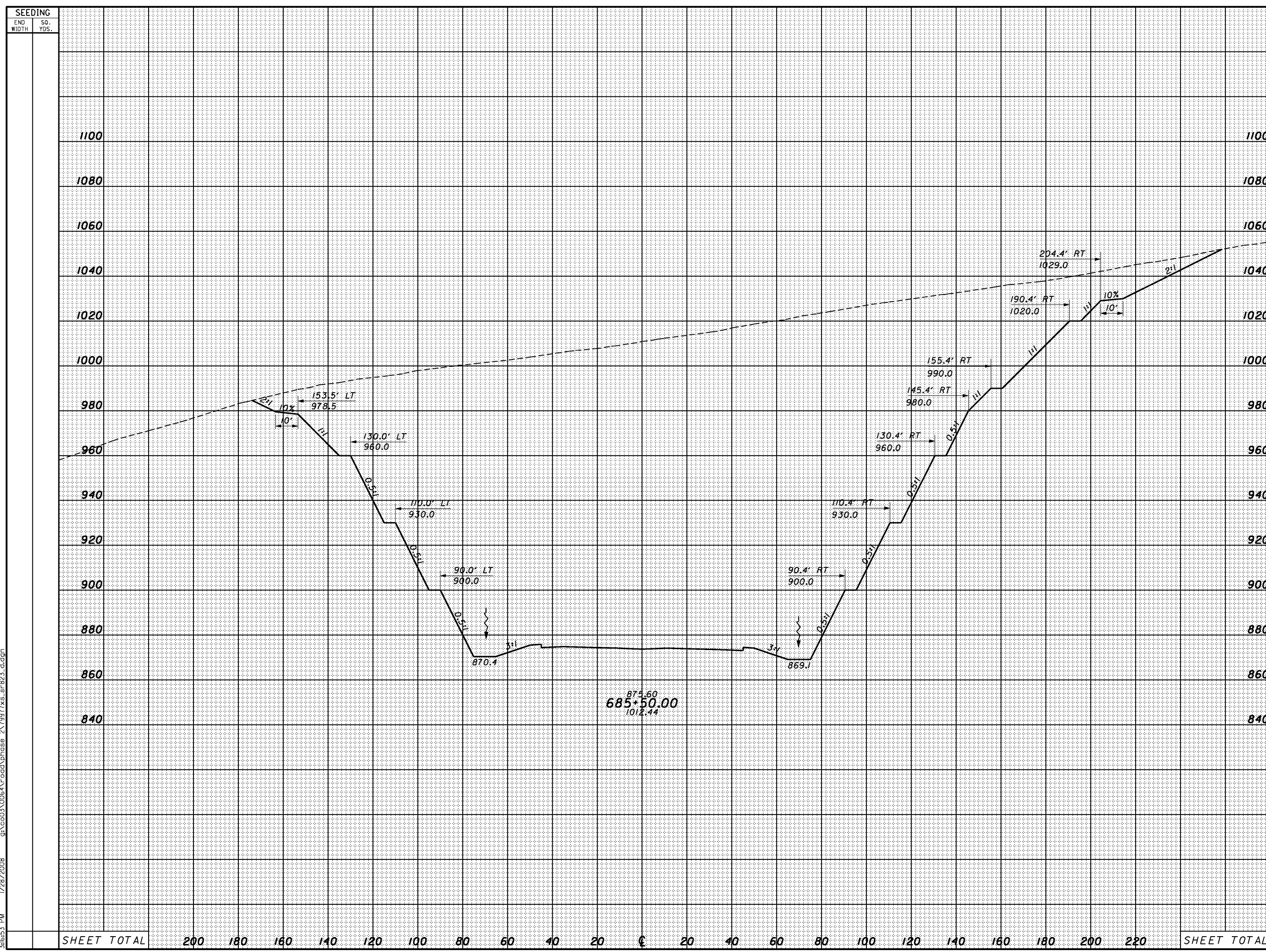
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED

CROSS SECTIONS
SR823 - STA. 685+50.00

SCI-823-10.13

283



875.60
685+50.00
1012.44

SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3:16:54 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

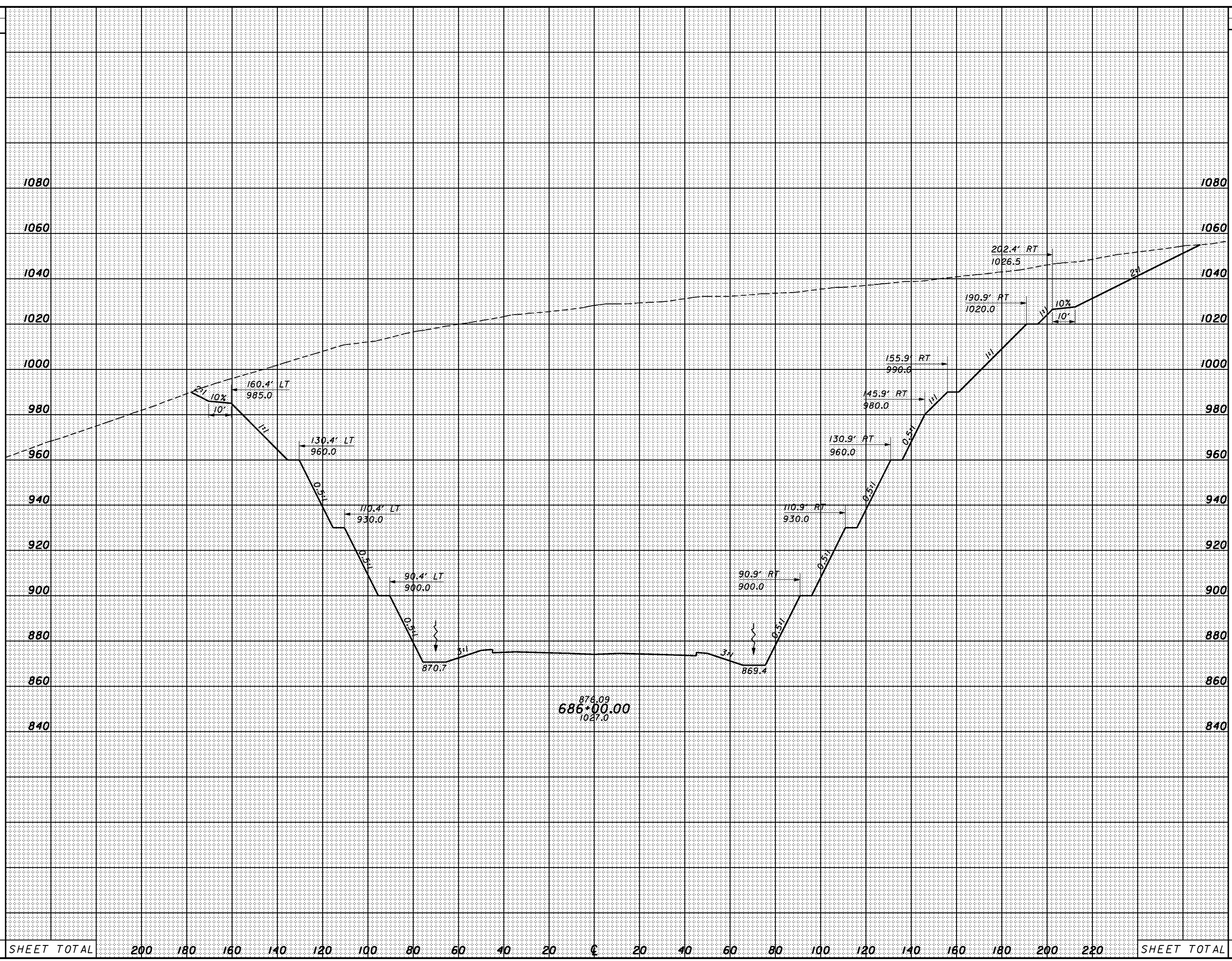
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 686+00.00

SCI-823-10.13

284

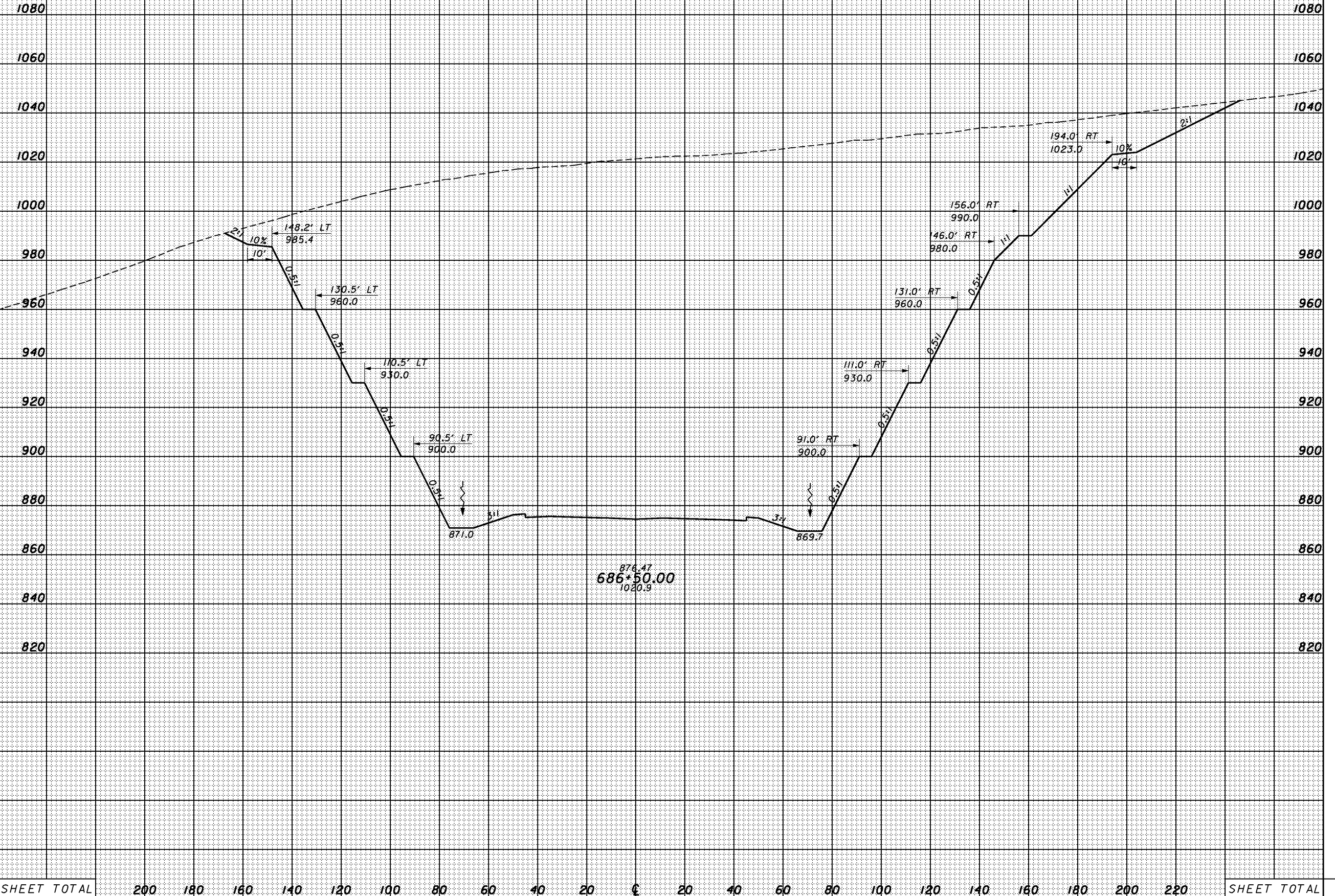


3:16:55 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 686+50.00

SCI-823-10.13

SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3:16:56 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

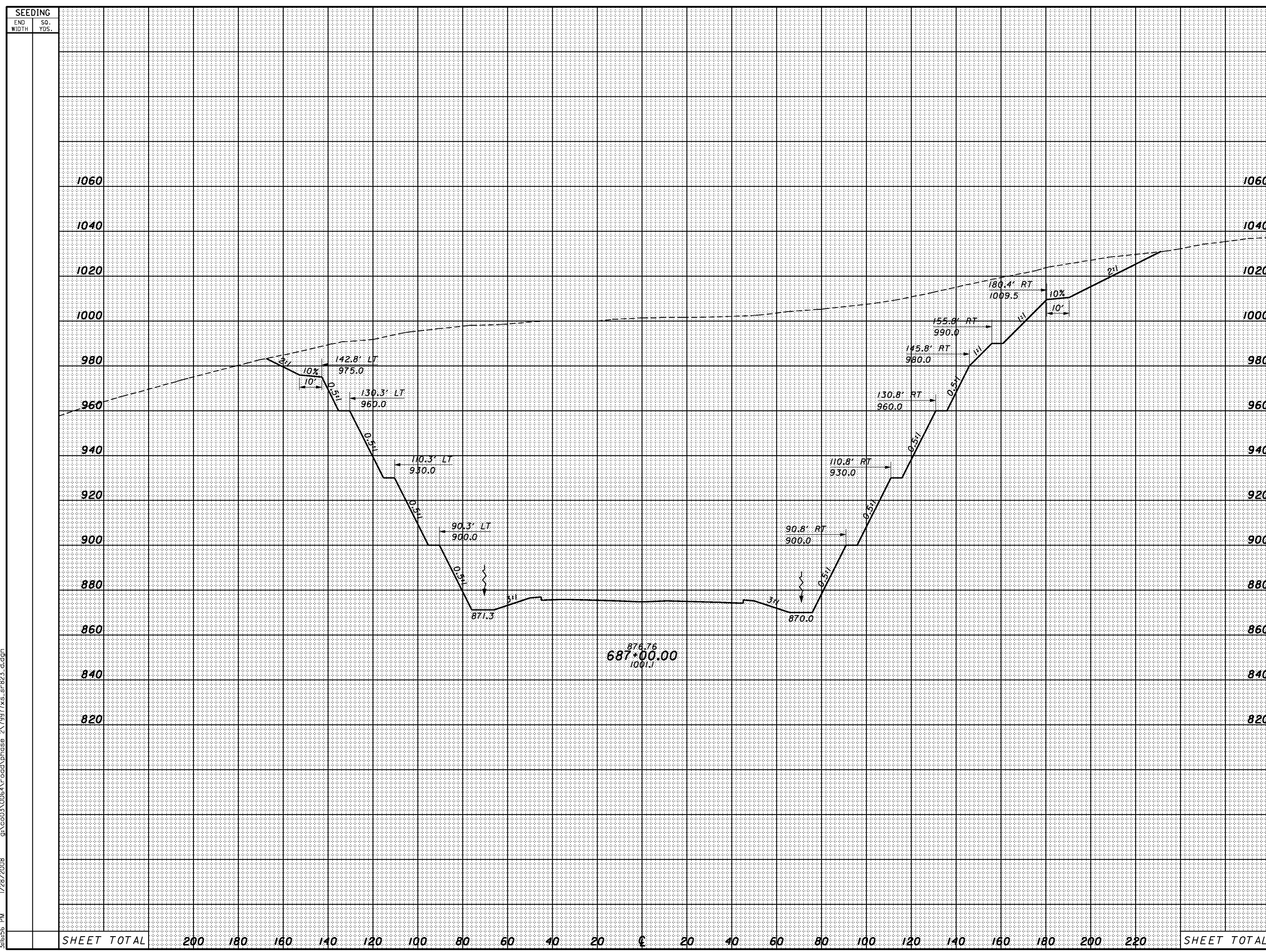
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 687+00.00

SCI-823-10.13

286



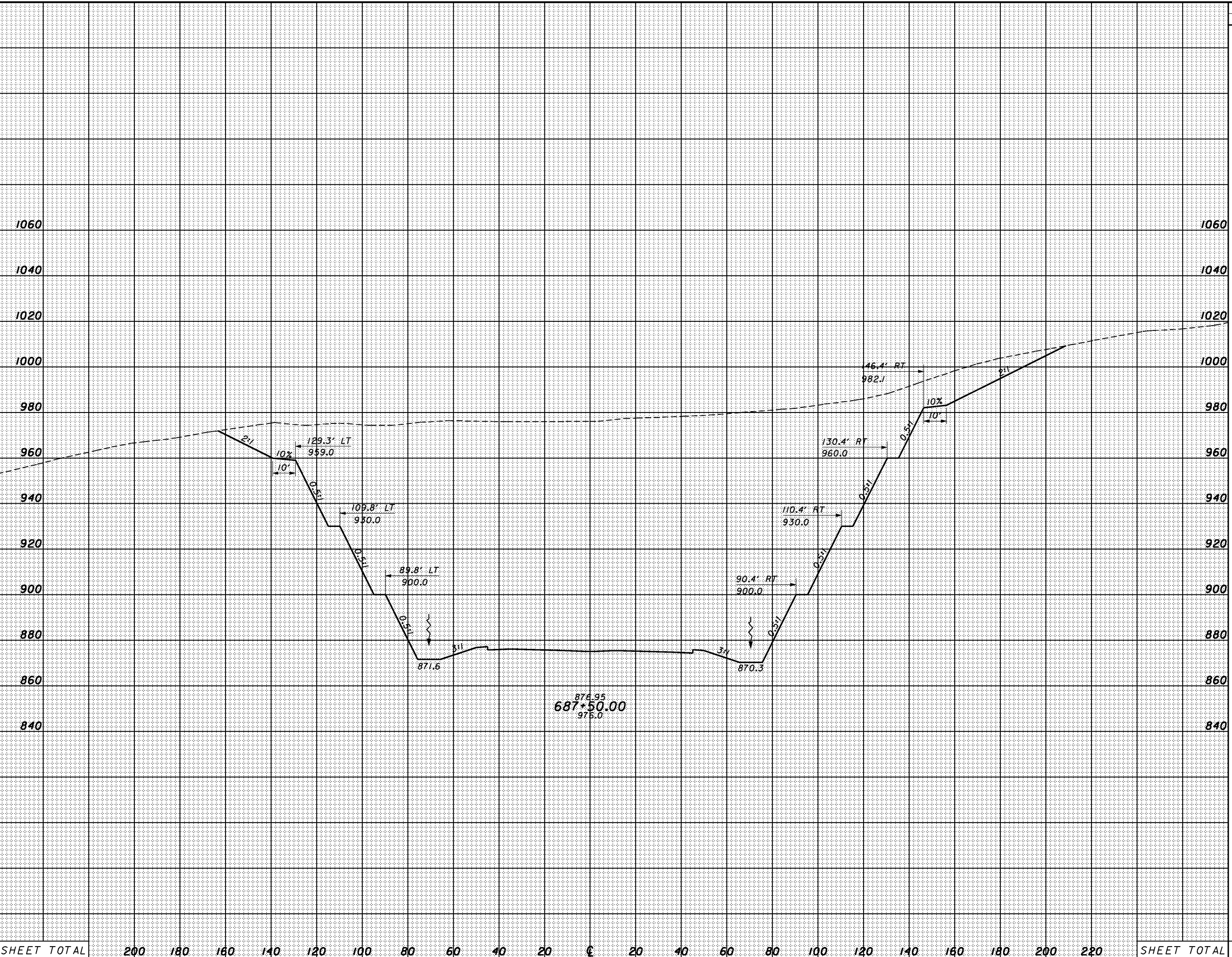
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3:16:57 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 687+50.00

SCI-823-10.13

287

SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3:16:58 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

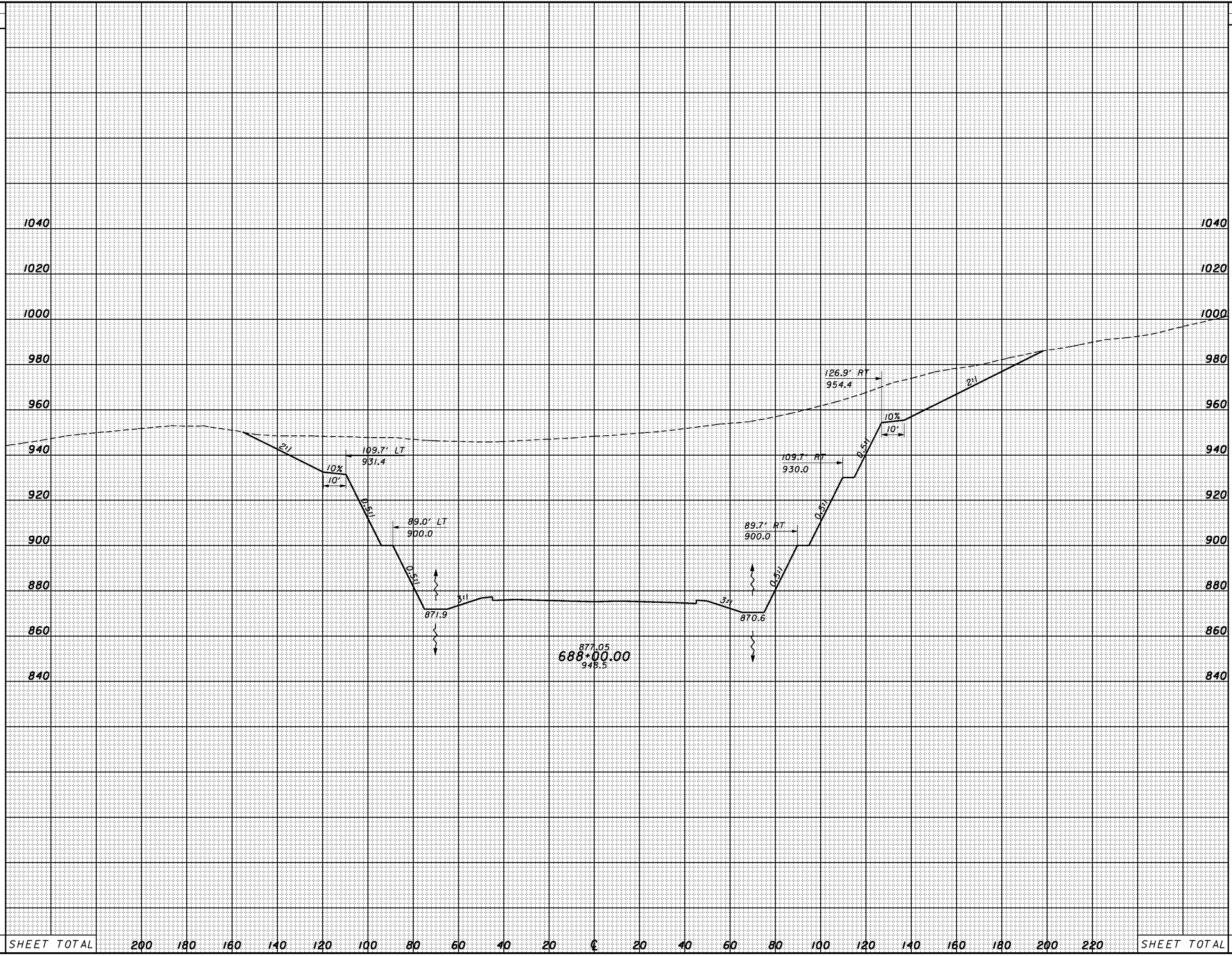
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 688+00.00

SCI-823-10.13

288

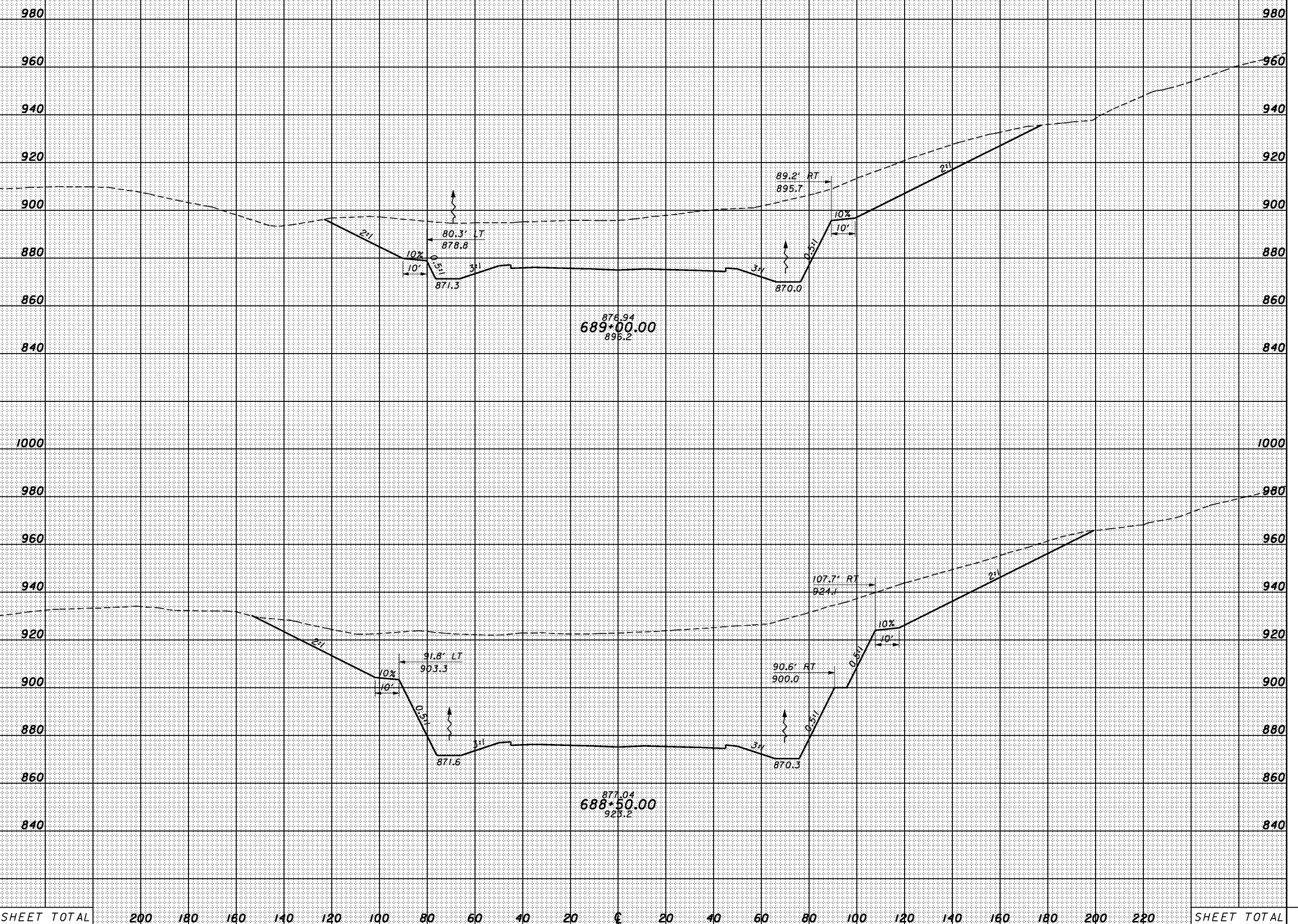


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3:16:59 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	±	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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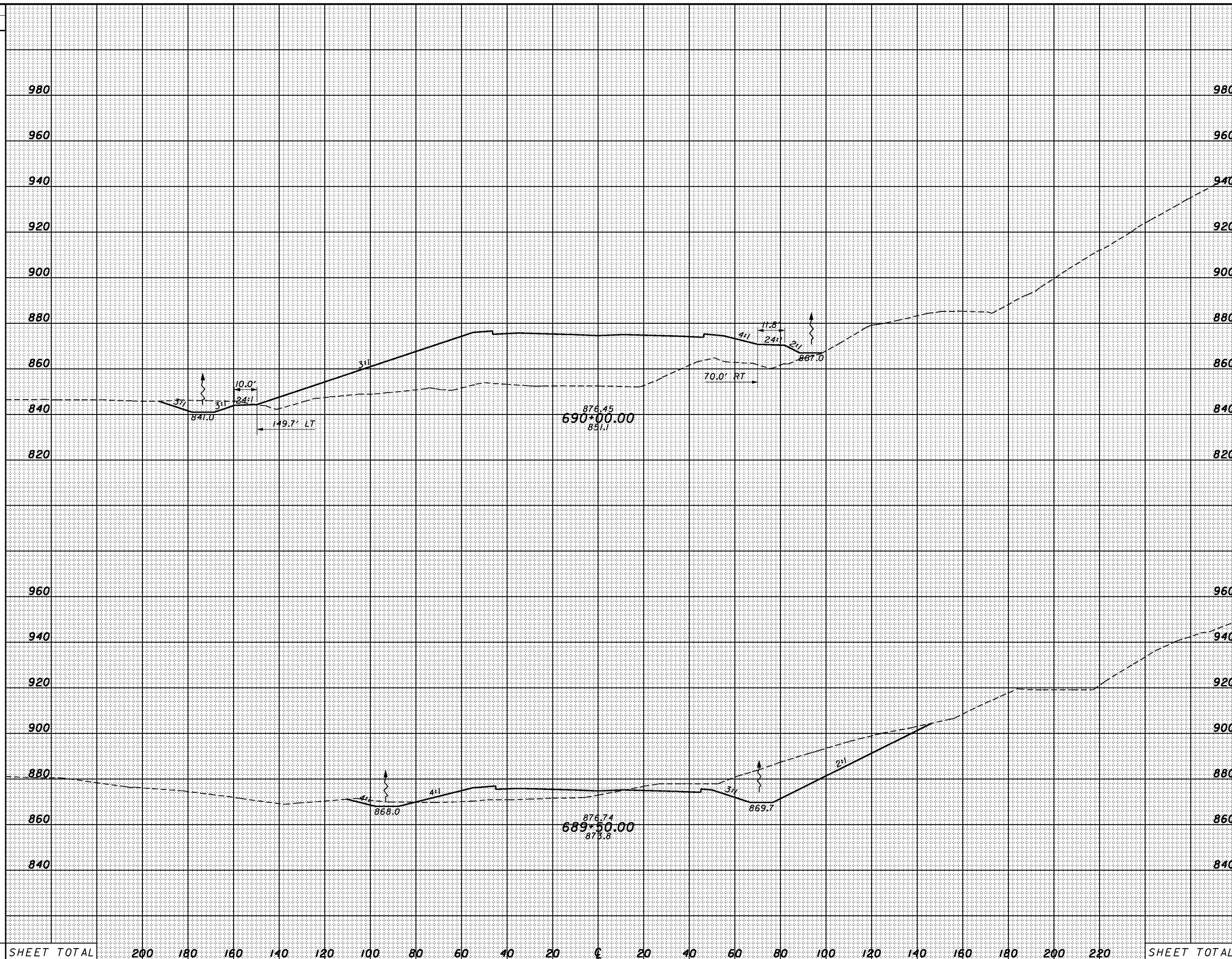
CROSS SECTIONS
SR823 - STA. 688+50.00 TO STA. 689+00.00

SCI-823-10.13

3/17/01 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_sr823.s.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



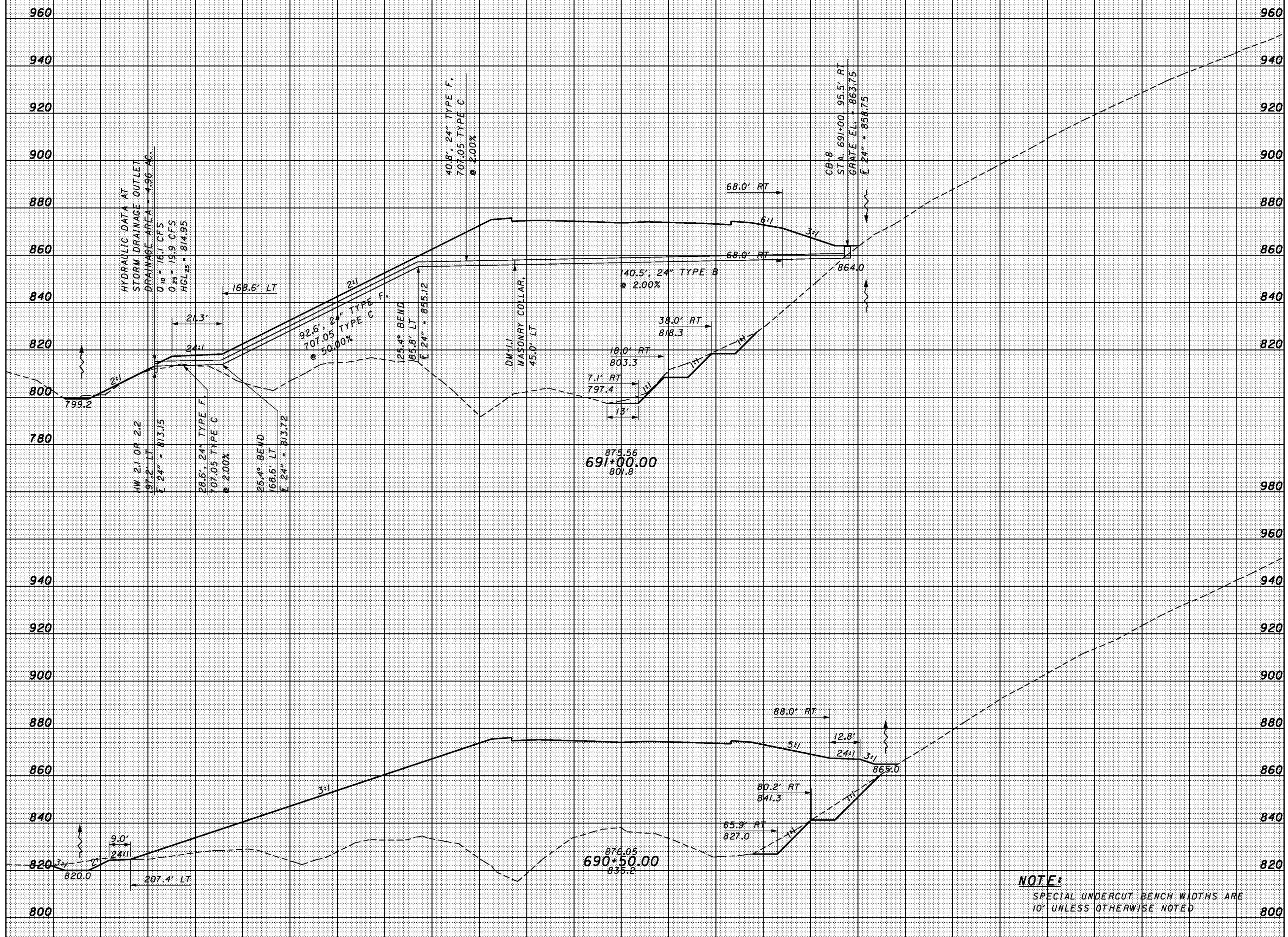
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	±	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 689+50.00 TO STA. 690+00.00

SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



NOTE:
 SPECIAL UNDERCUT BENCH WIDTHS ARE 10' UNLESS OTHERWISE NOTED

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
 SR823 - STA. 690+50.00 TO STA. 691+00.00

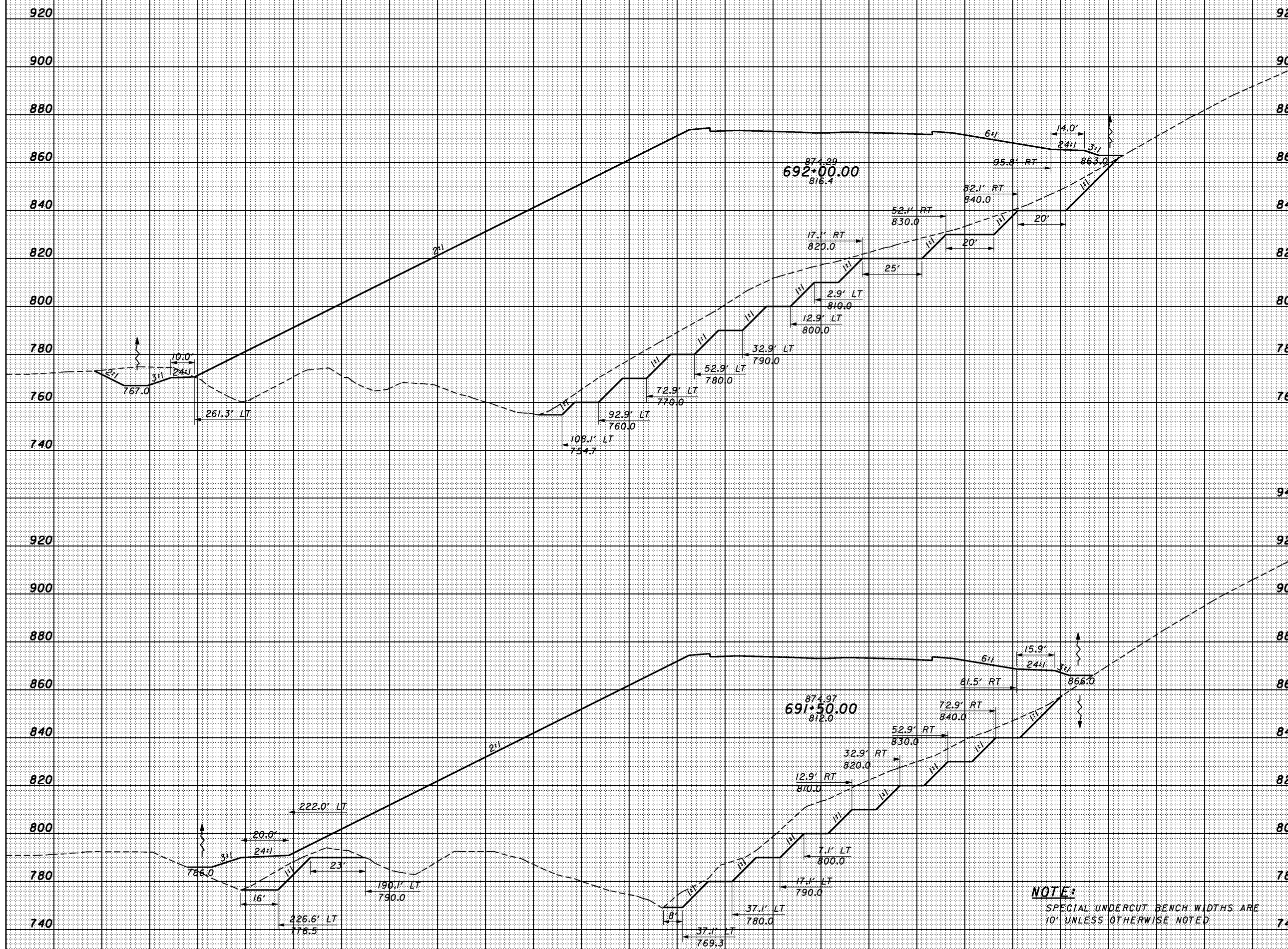
SCI-823-10.13

3/14/02 PM 1/28/2008 g:\co03\0064\road\phase 2\79917xs_sr823.dgn

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3/14/03 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.s.dgn



SHEET TOTAL 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 691+50.00 TO STA. 692+00.00

SCI-823-10.13

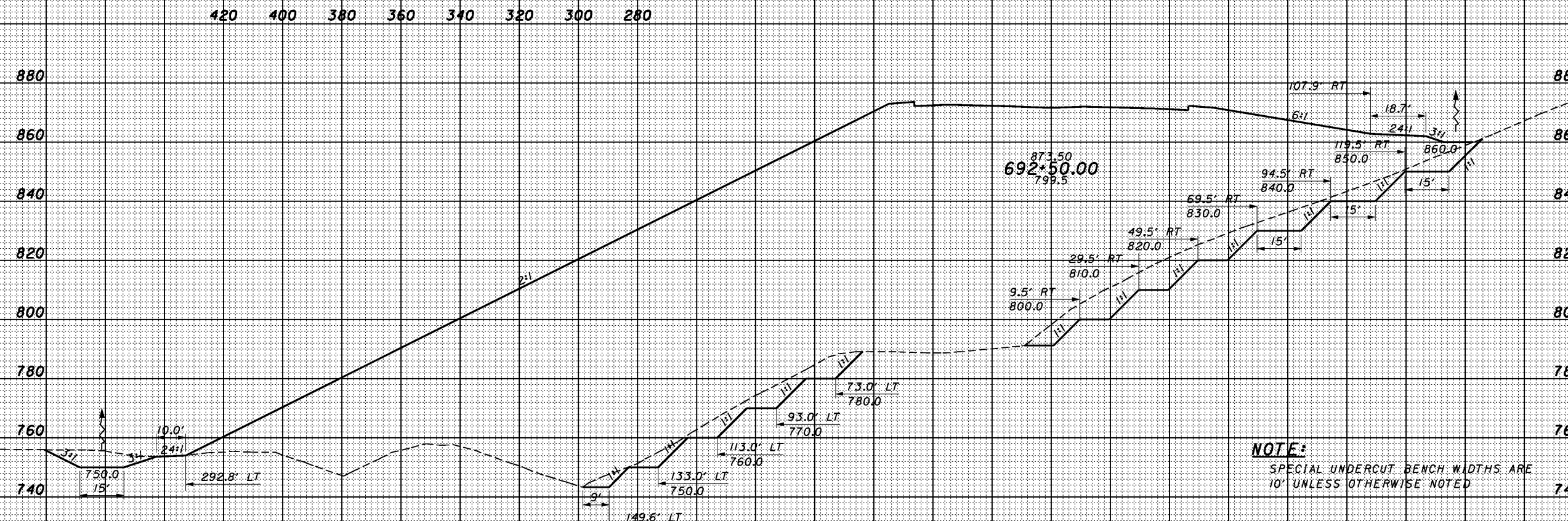
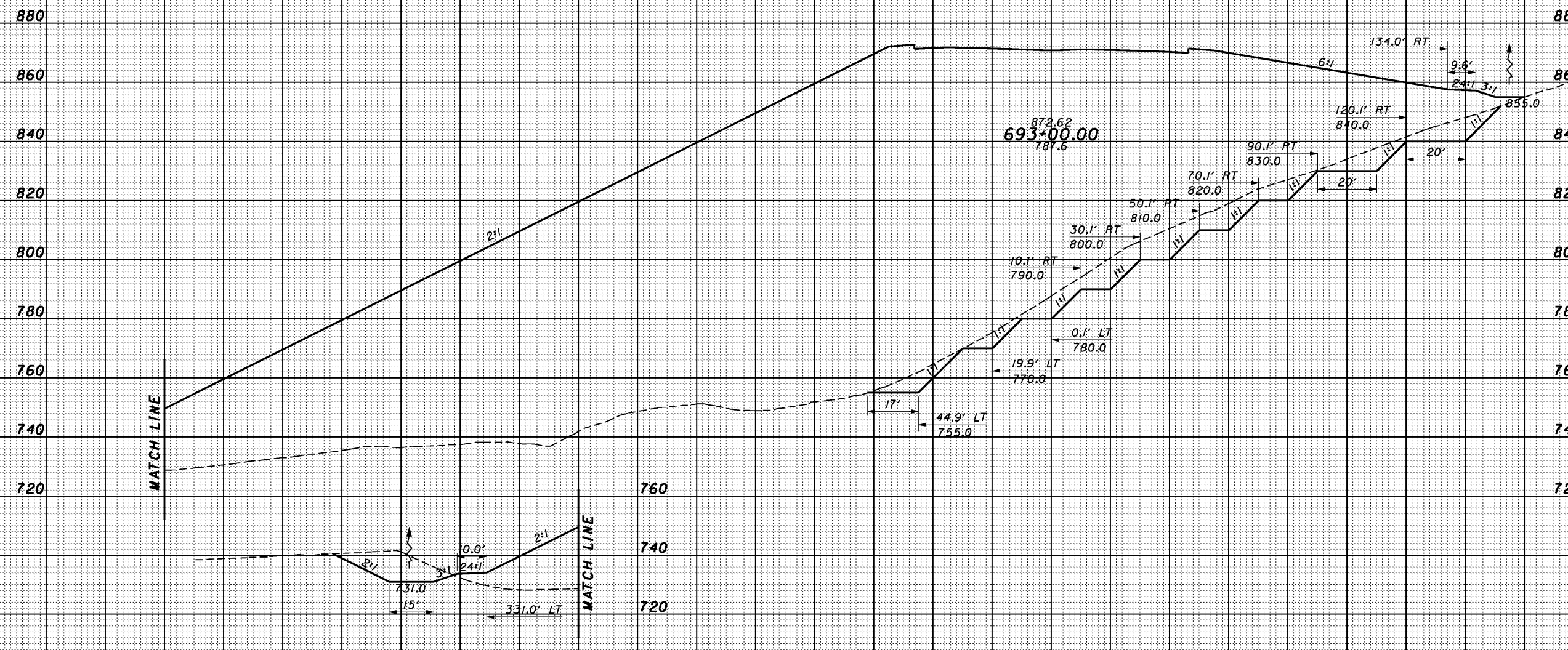
NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE 10' UNLESS OTHERWISE NOTED

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

880
860
840
820
800
780
760
740
720

880
860
840
820
800
780
760
740
720

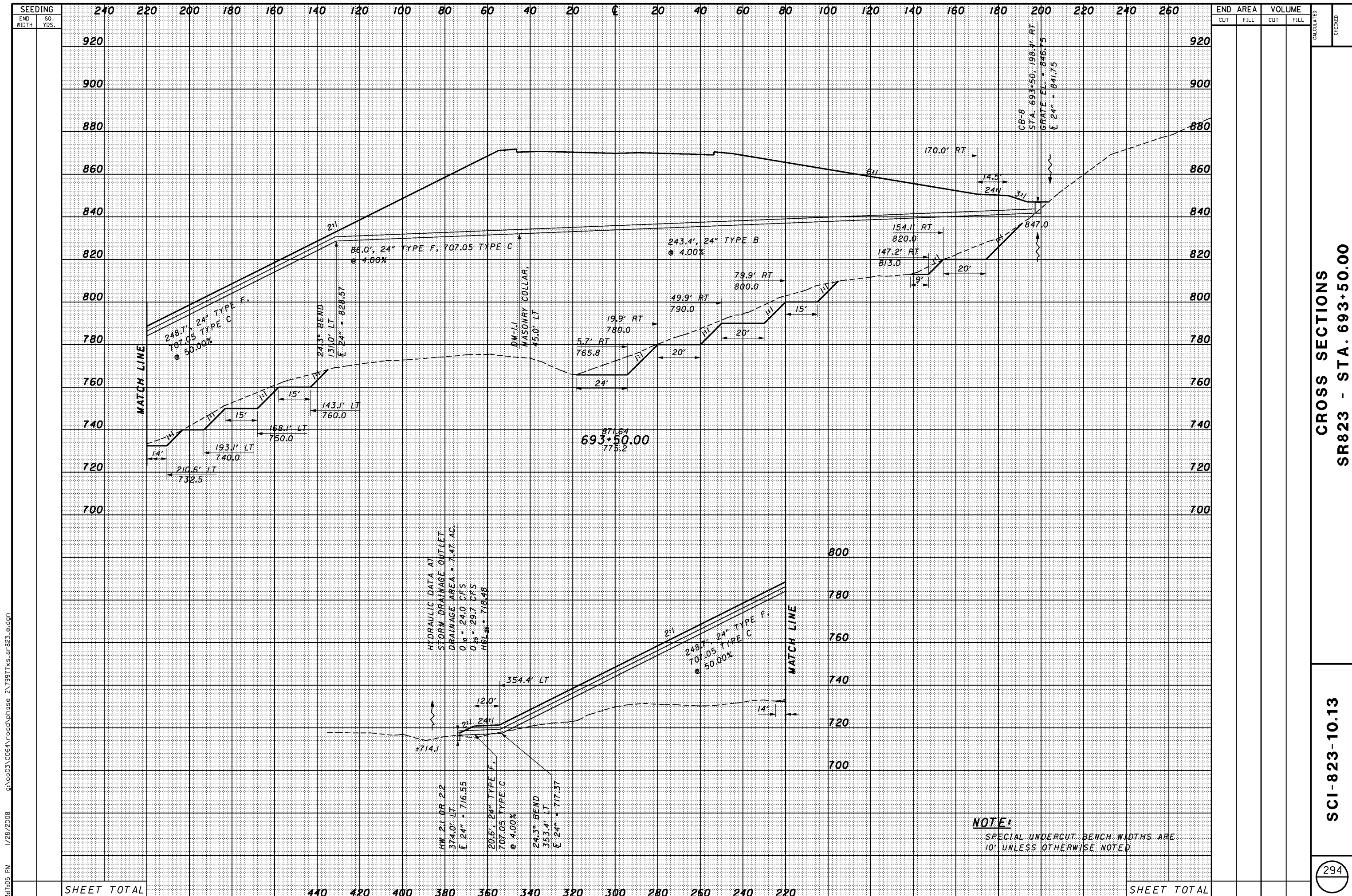


SHEET TOTAL 300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 692+50.00 TO STA. 693+00.00

SCI-823-10.13

3/17/04 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_sr823_e.dgn



3/14/05 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_sr823_e.dgn

SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		

SHEET TOTAL

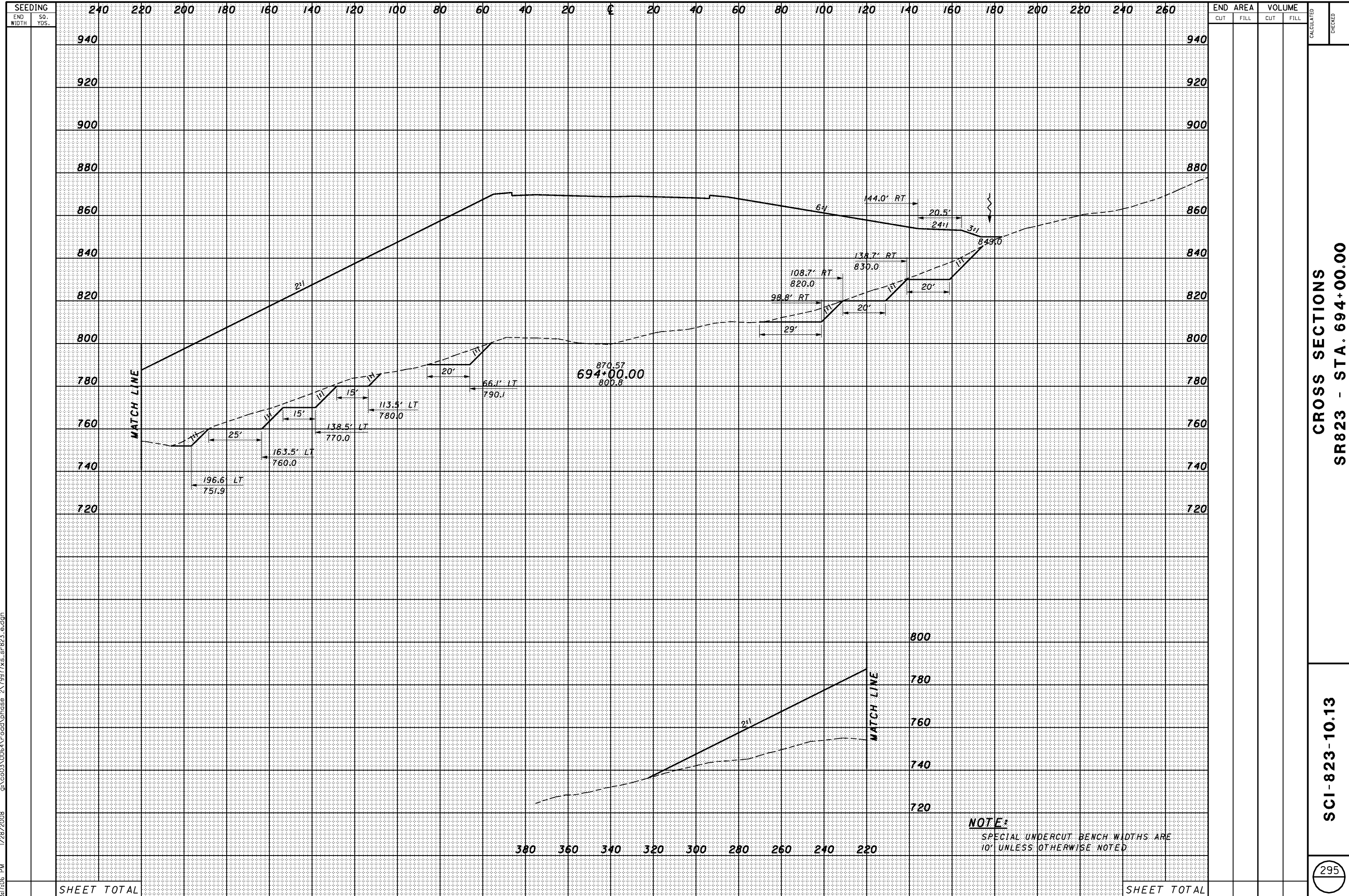
440 420 400 380 360 340 320 300 280 260 240 220

SHEET TOTAL

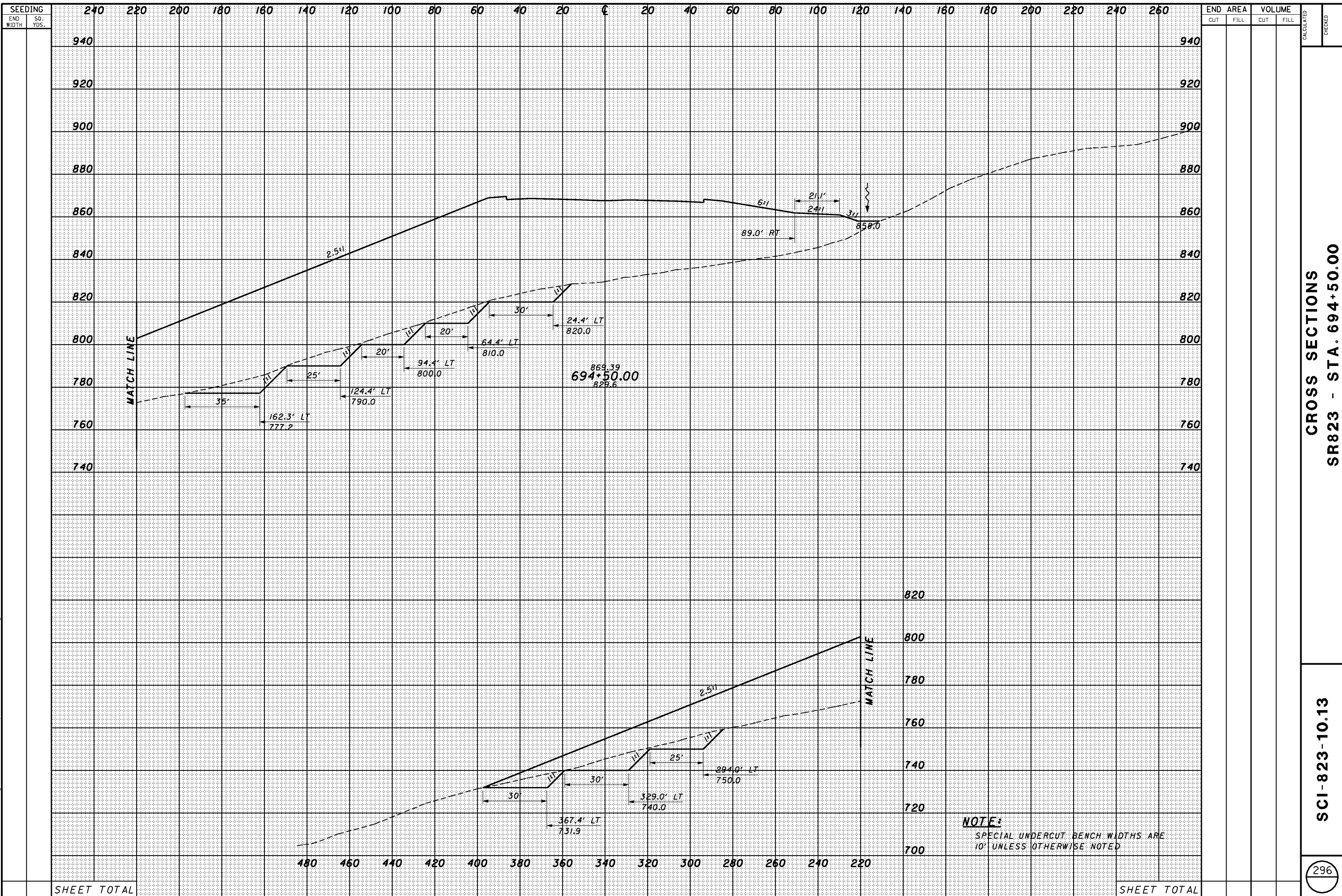
CROSS SECTIONS
SR823 - STA. 693+50.00

SCI-823-10.13

NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE
10' UNLESS OTHERWISE NOTED



3/17/06 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_e.dgn



SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

CROSS SECTIONS
SR823 - STA. 694+50.00

SCI-823-10.13

3/17/07 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_sr823_e.dgn

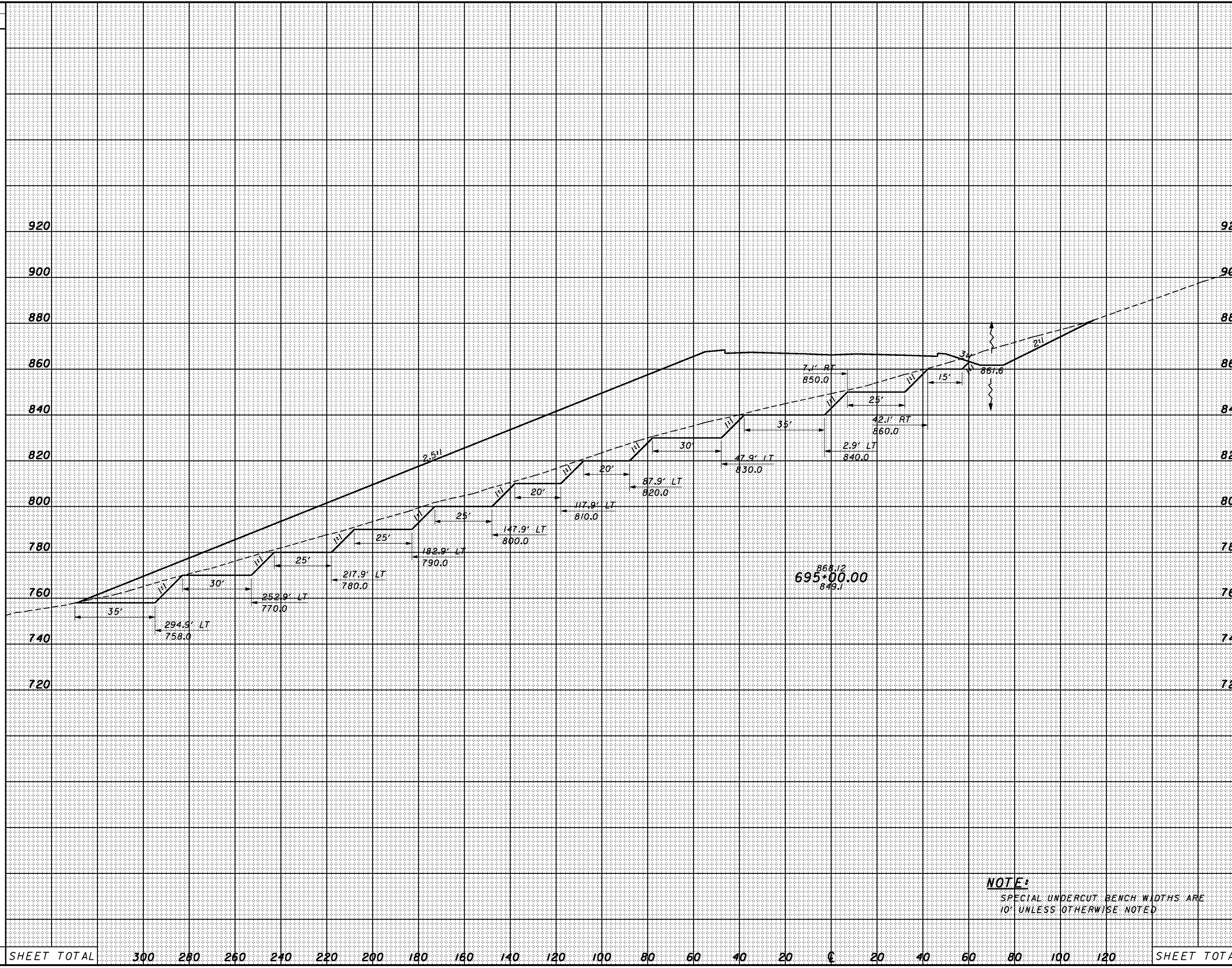
SHEET TOTAL

SHEET TOTAL

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

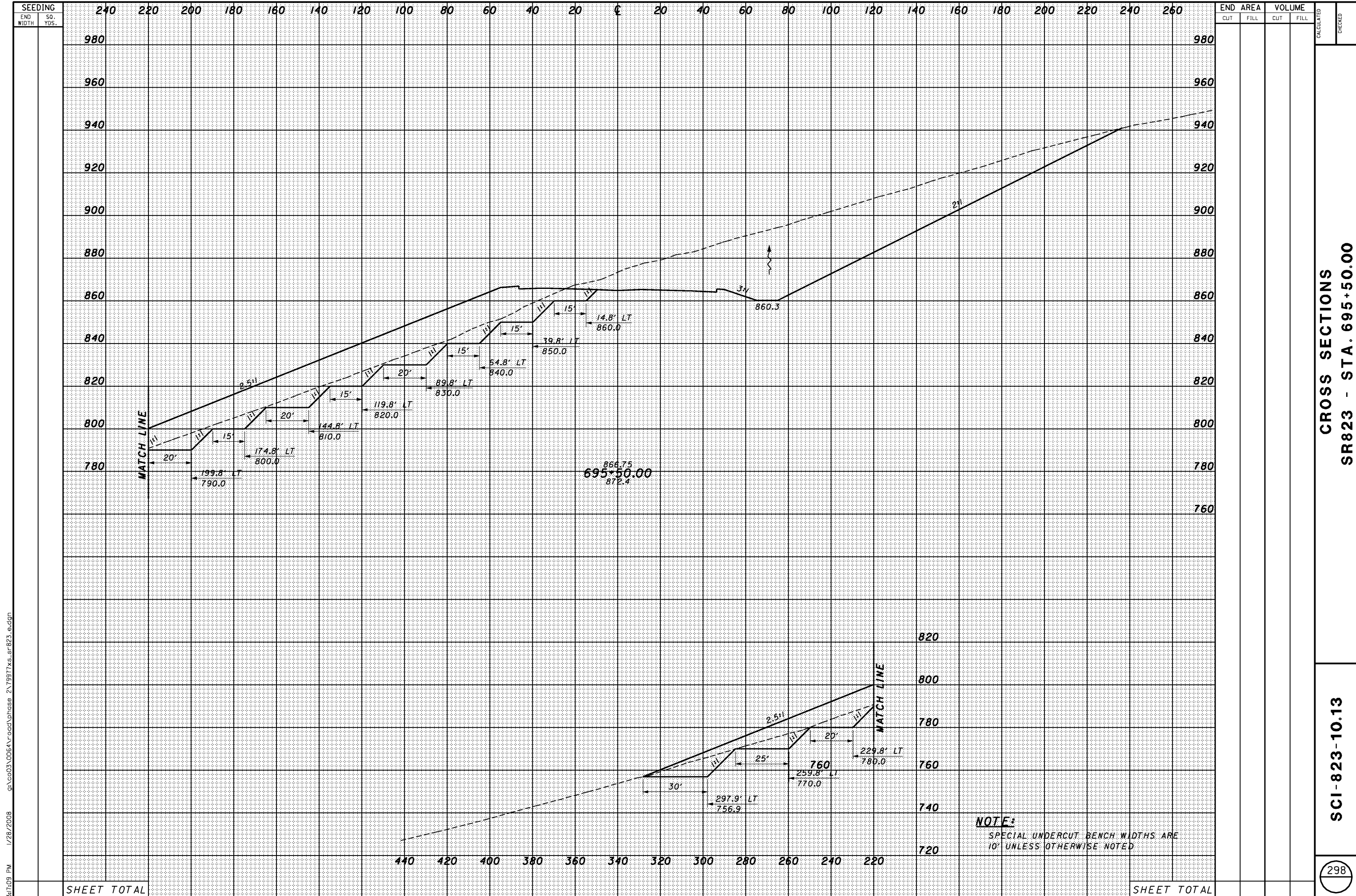
3/17/08 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.s.dgn



SHEET TOTAL	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 695+00.00

SCI-823-10.13

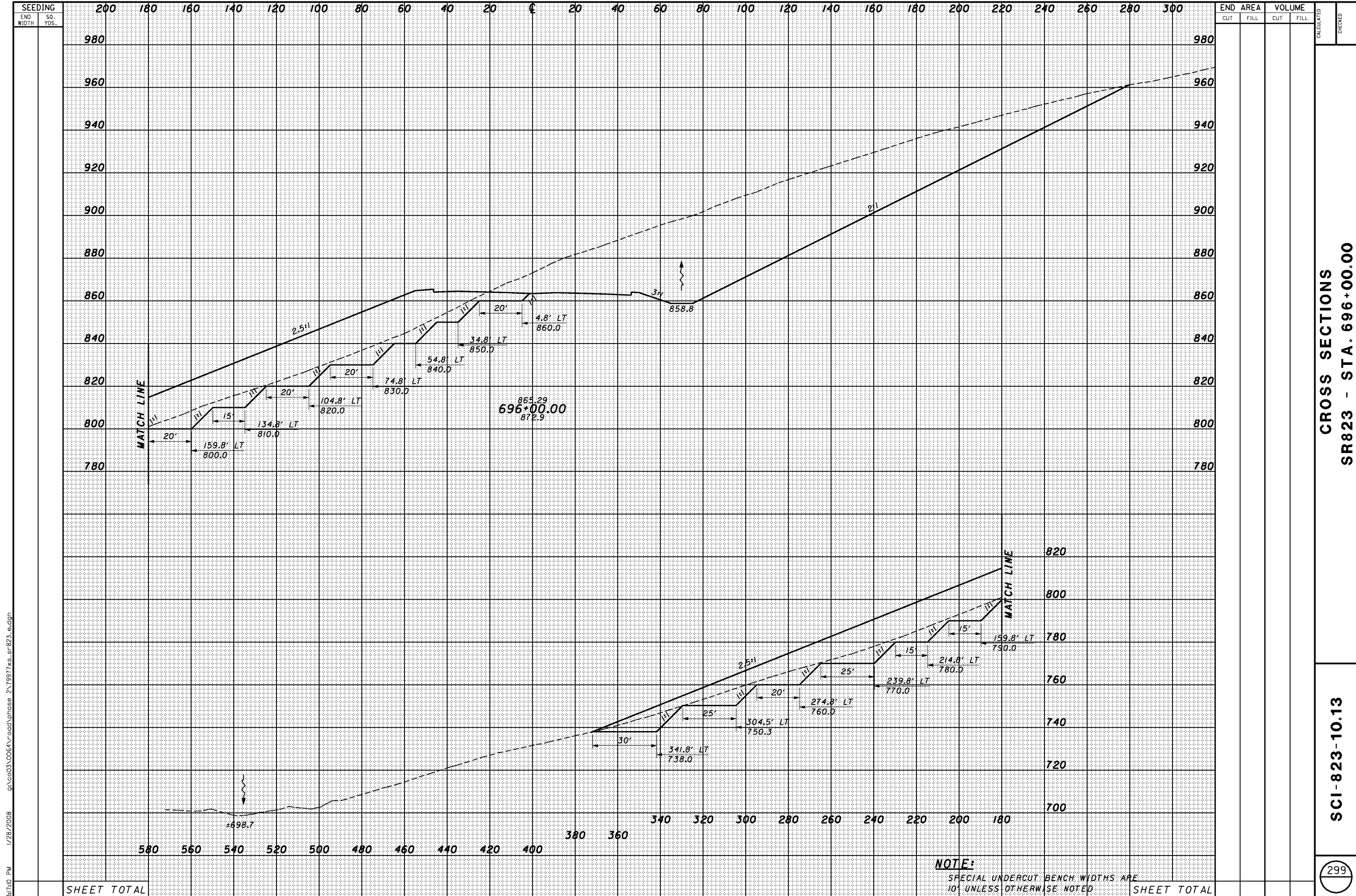


CROSS SECTIONS
SR823 - STA. 695+50.00

SCI-823-10.13

3/17/09 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_e.dgn

NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE
10' UNLESS OTHERWISE NOTED



3/14/10 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_e.dgn

SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		

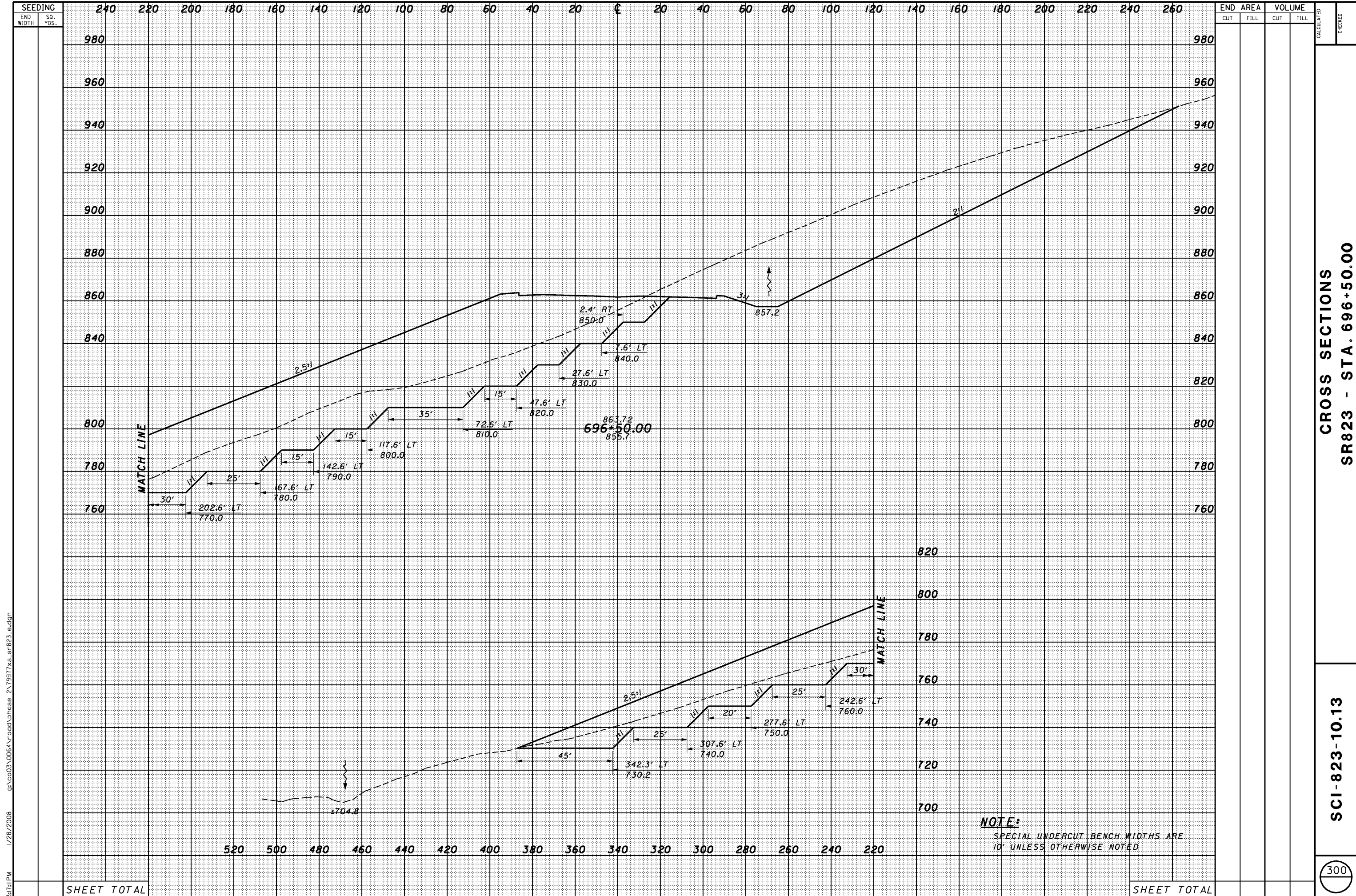
SHEET TOTAL

SHEET TOTAL

NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE 10' UNLESS OTHERWISE NOTED

CROSS SECTIONS
SR823 - STA. 696+00.00

SCI-823-10.13



1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_e.dgn
 3:17:41 PM

SHEET TOTAL

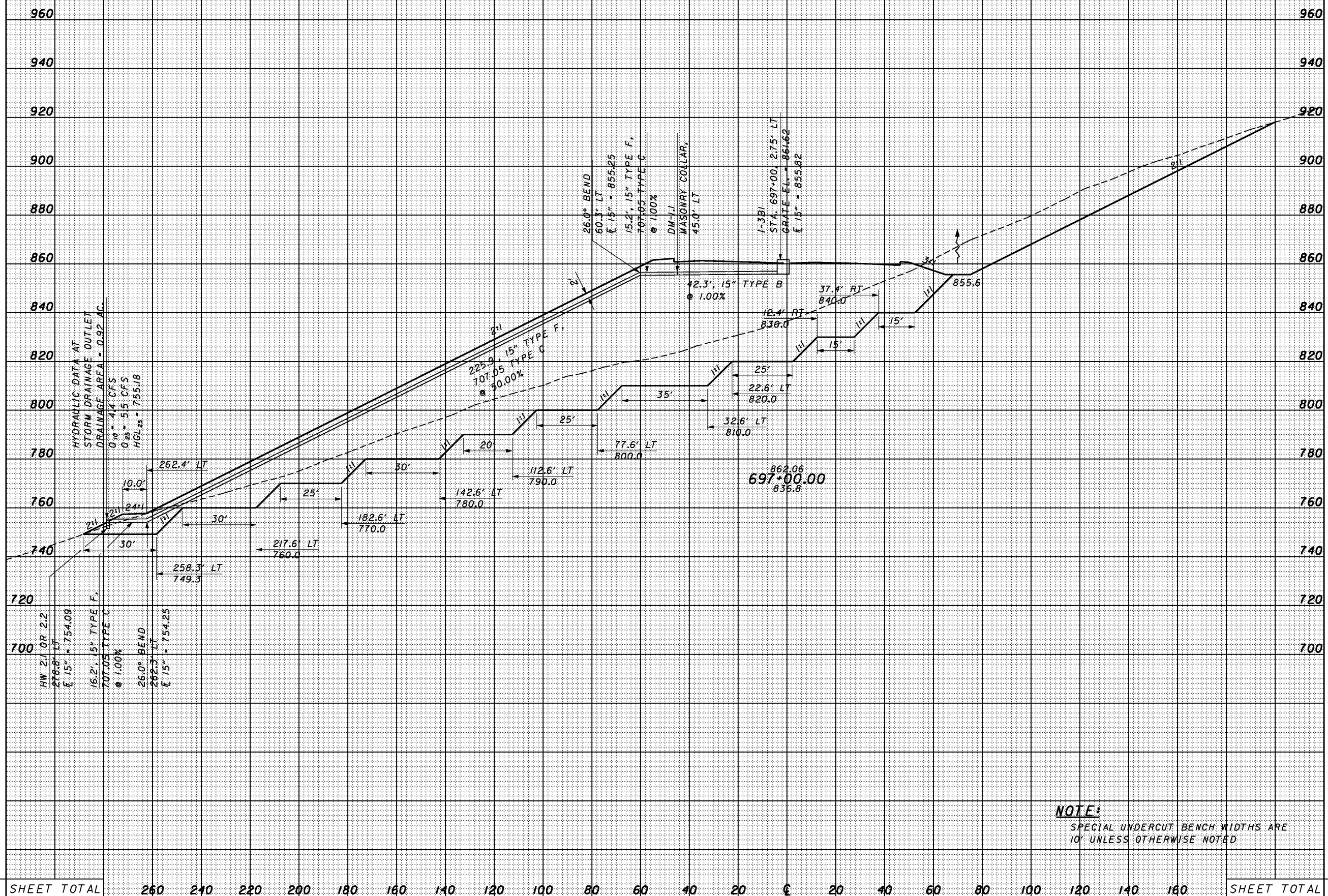
SHEET TOTAL

END STA.	AREA		VOLUME		CALCULATED	CHECKED
	CUT	FILL	CUT	FILL		
240						
260						
CROSS SECTIONS SR823 - STA. 696+50.00						
SCI-823-10.13						
300						

3/14/2 PM 1/28/2008 g:\c03\0064\road\phase 2\79917xs_sr823.s.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



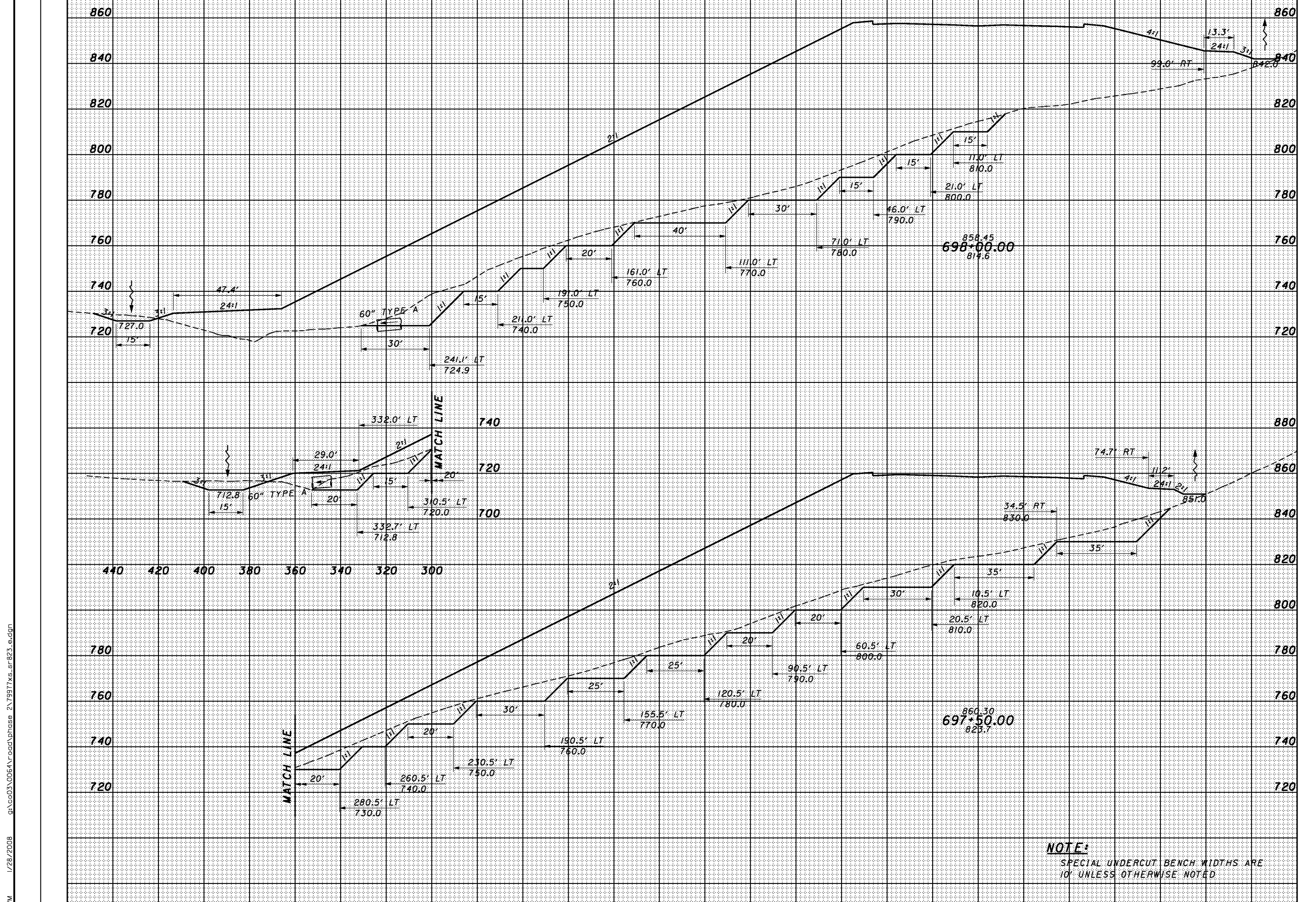
SHEET TOTAL 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 697+00.00

SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



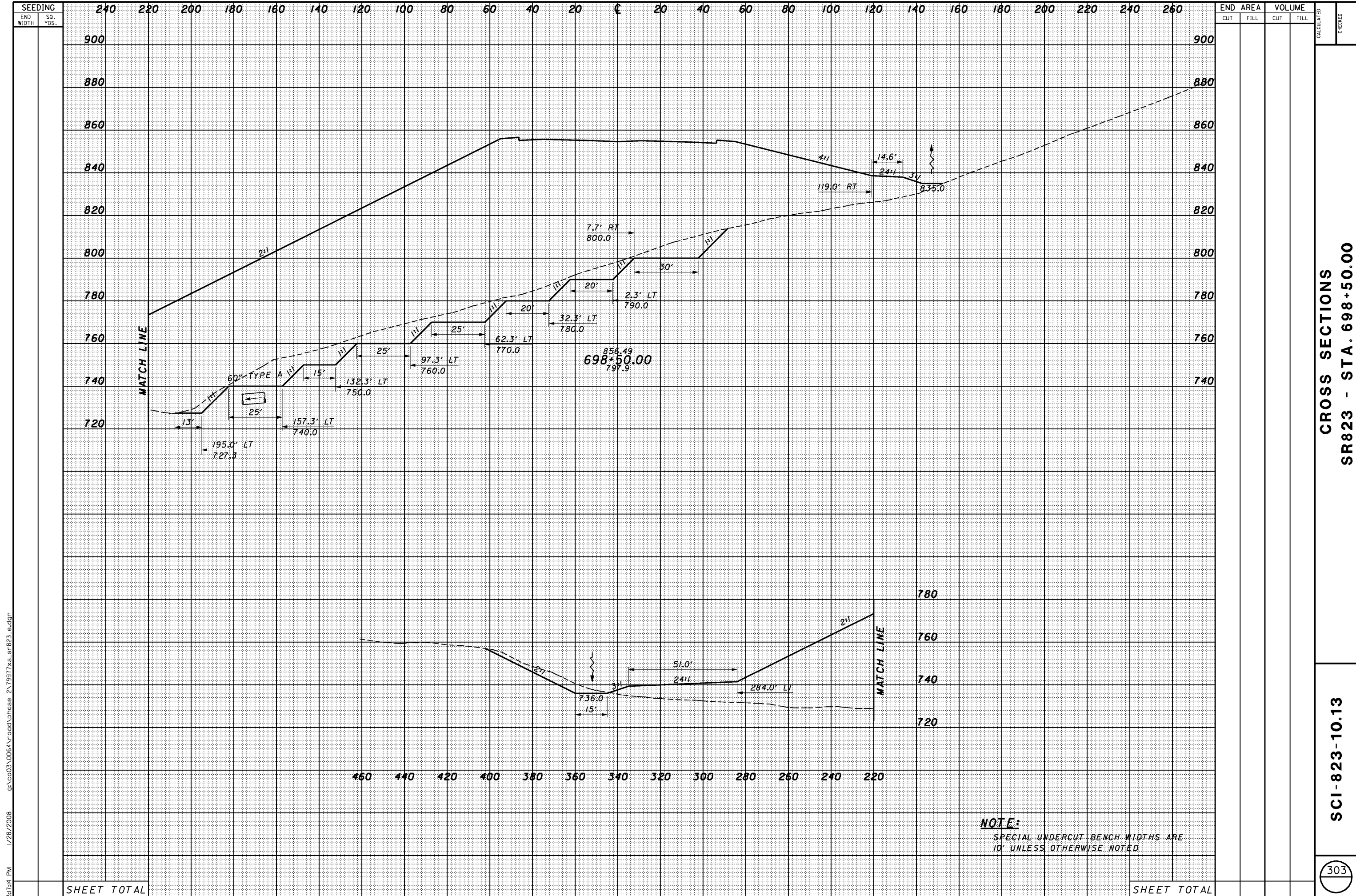
SHEET TOTAL	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 697+50.00 TO STA. 698+00.00

SCI-823-10.13

NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE 10' UNLESS OTHERWISE NOTED

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CROSS SECTIONS
SR823 - STA. 698+50.00

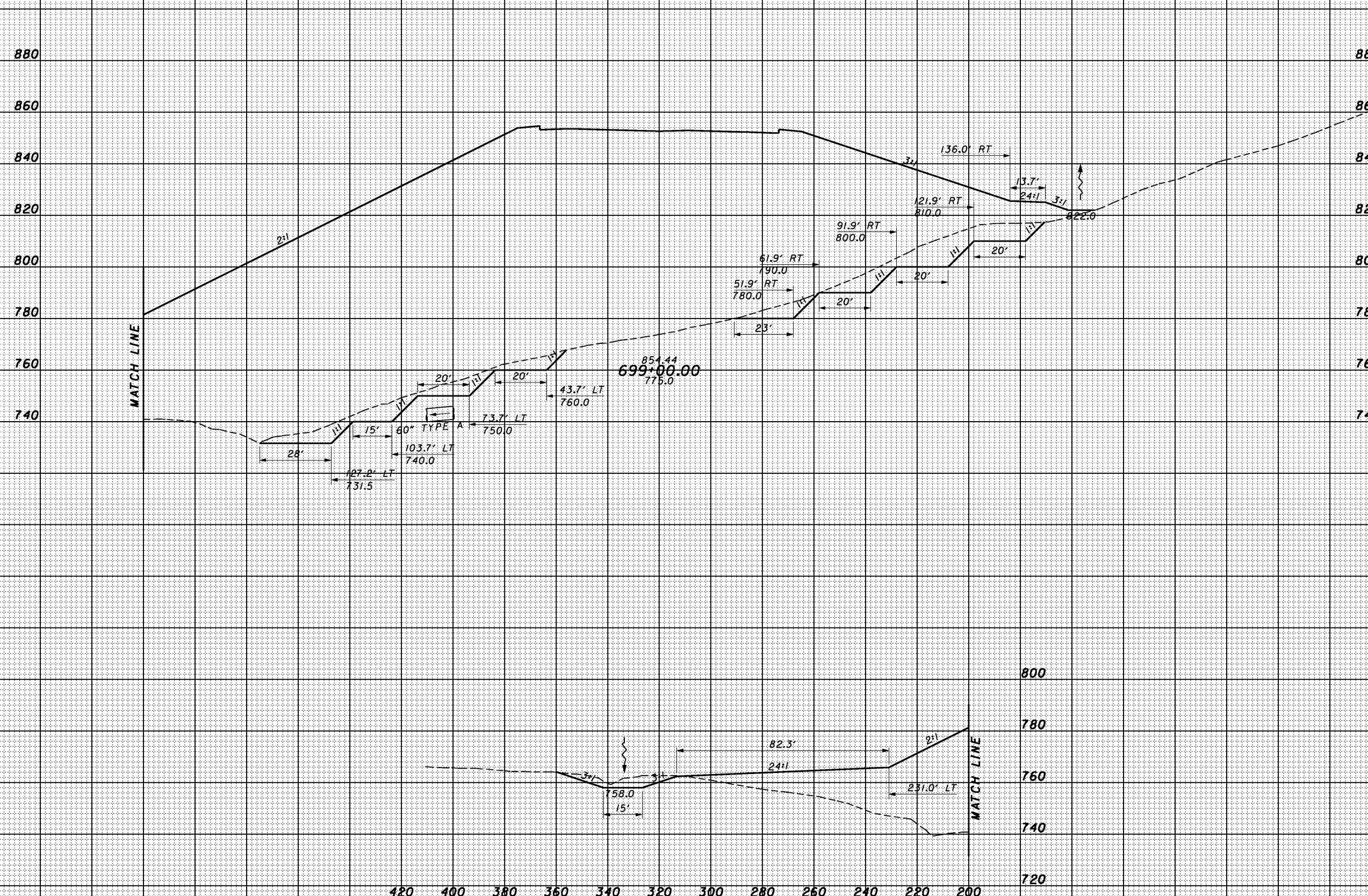
SCI-823-10.13

3/17/14 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING
END WIDTH SO. YDS.

240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE
10' UNLESS OTHERWISE NOTED

SHEET TOTAL

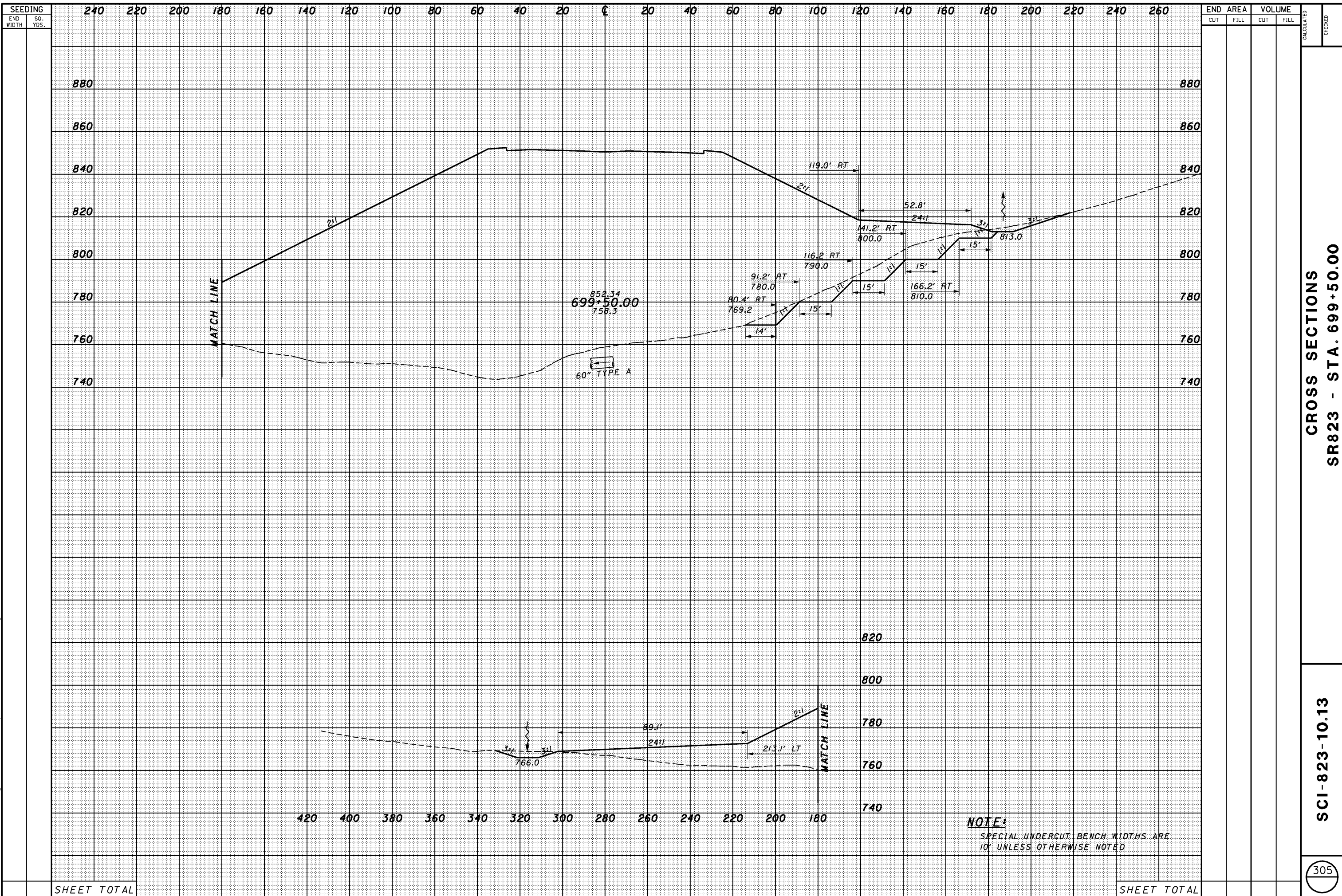
SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 699+00.00

SCI-823-10.13

304

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SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		

CROSS SECTIONS
SR823 - STA. 699+50.00

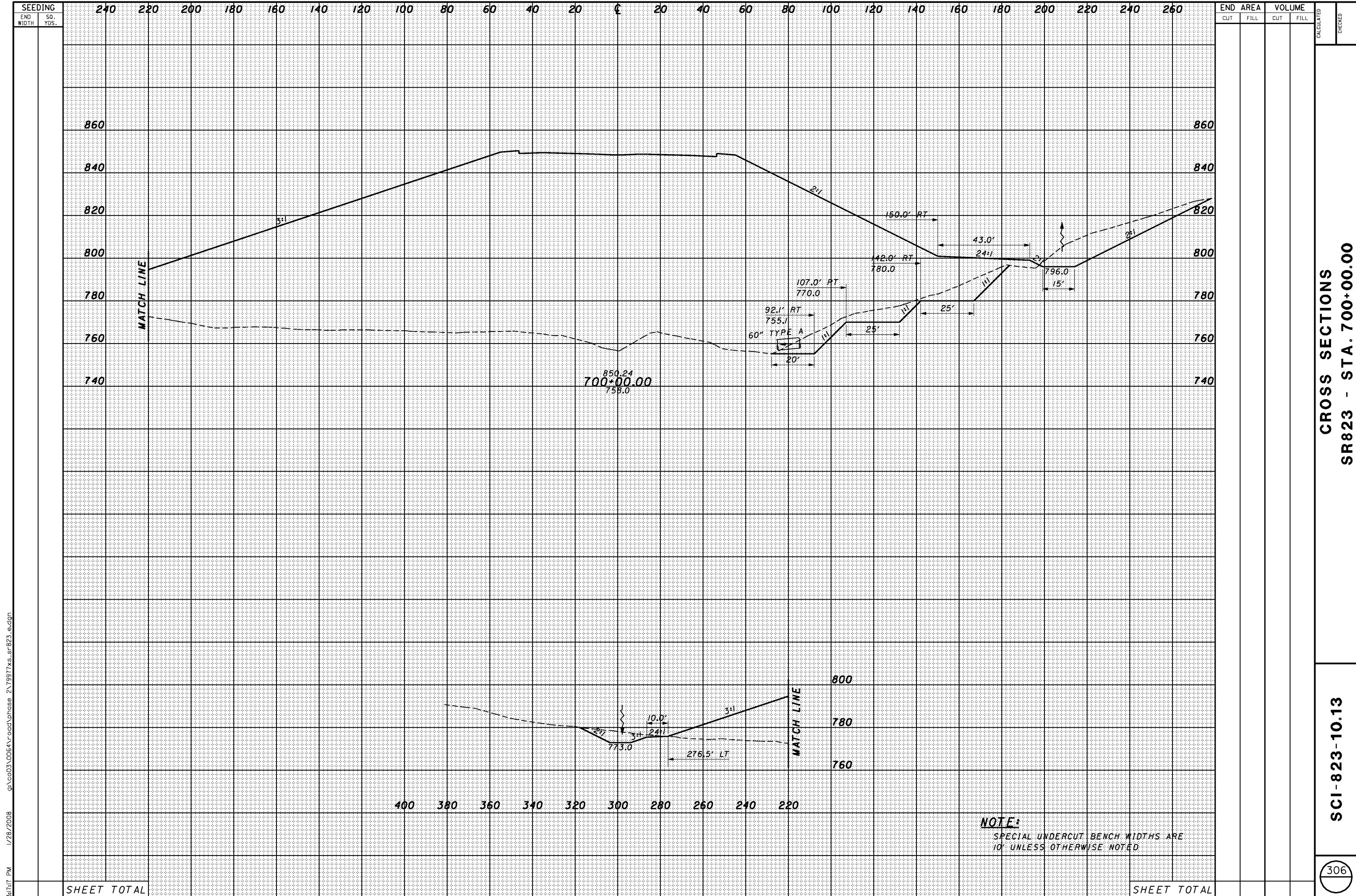
SCI-823-10.13

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NOTE:
 SPECIAL UNDERCUT BENCH WIDTHS ARE 10' UNLESS OTHERWISE NOTED

SHEET TOTAL

SHEET TOTAL



CROSS SECTIONS
SR823 - STA. 700+00.00

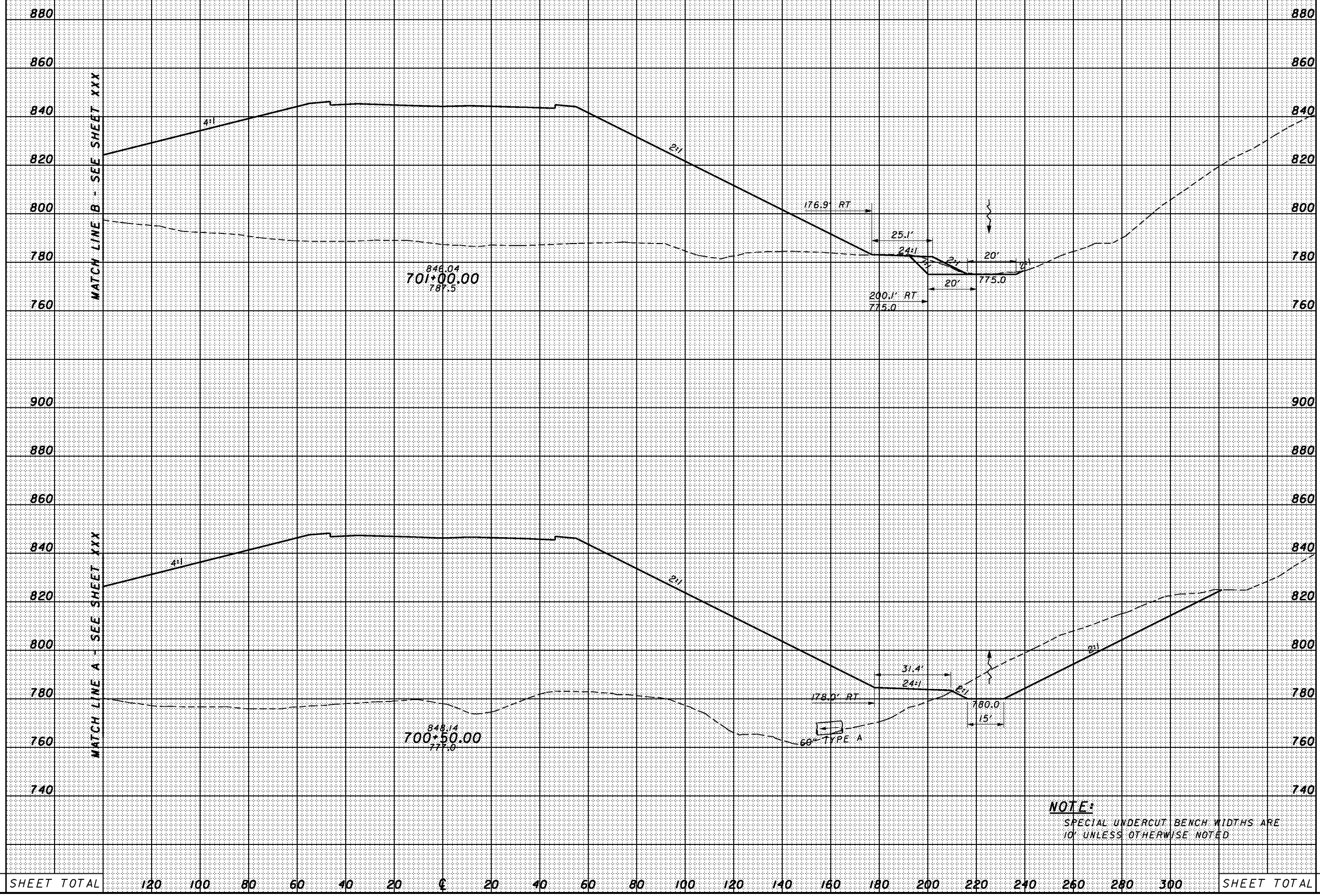
SCI-823-10.13

306

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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



MATCH LINE B - SEE SHEET XXX

MATCH LINE A - SEE SHEET XXX

846.04
701+00.00
787.5

848.14
700+50.00
777.0

NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE 10' UNLESS OTHERWISE NOTED

SHEET TOTAL	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 700+50.00 TO STA. 701+00.00

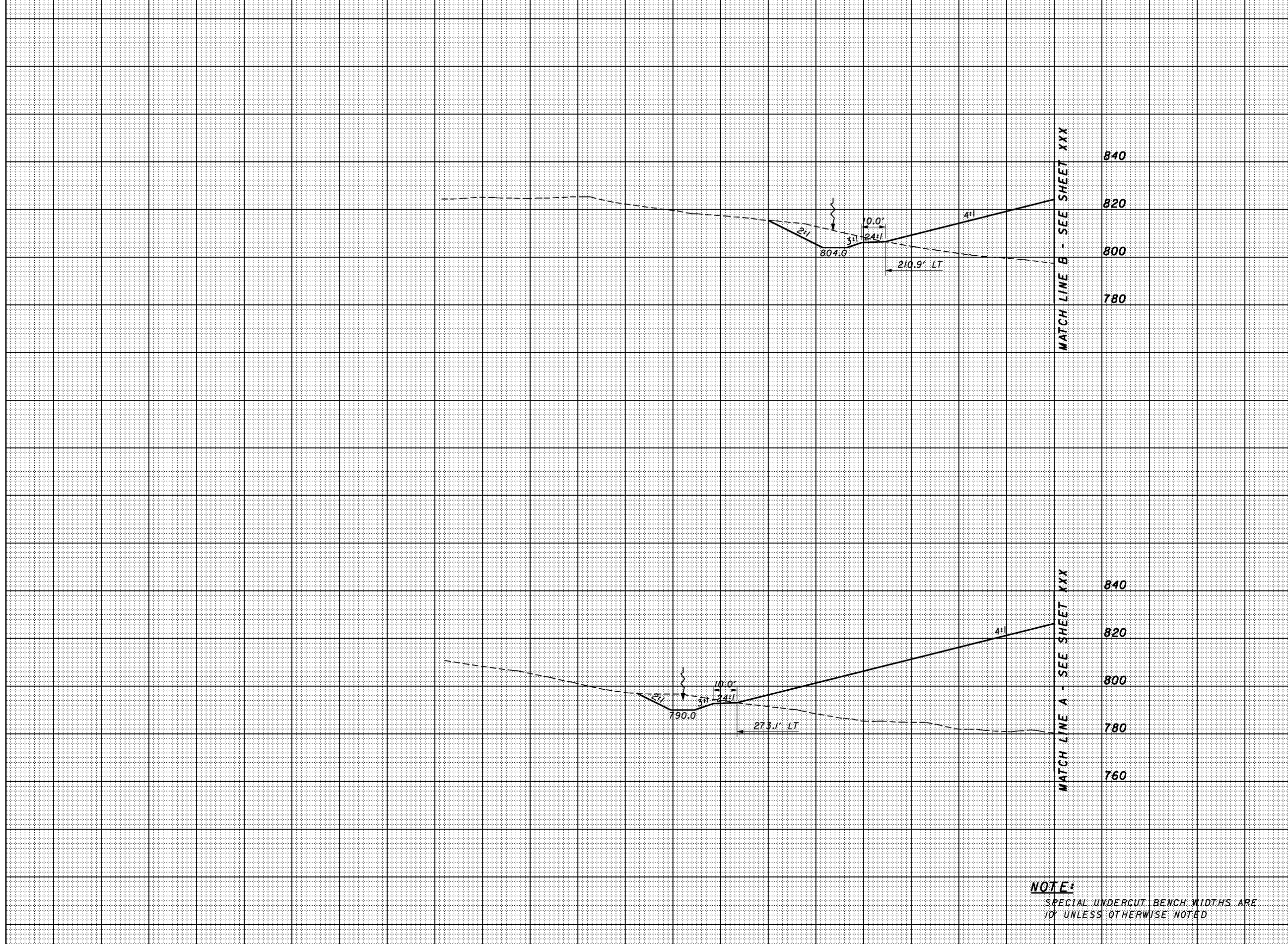
SCI-823-10.13

307

3/17/13 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_e.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE
10' UNLESS OTHERWISE NOTED

SHEET TOTAL

400 380 360 340 320 300 280 260 240 220 200 180 160 140

SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 700+50.00 TO STA. 701+00.00

SCI-823-10.13

308

3/17/08 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_sr823_e.dgn

SEEDING	
END WIDTH	SO. YDS.

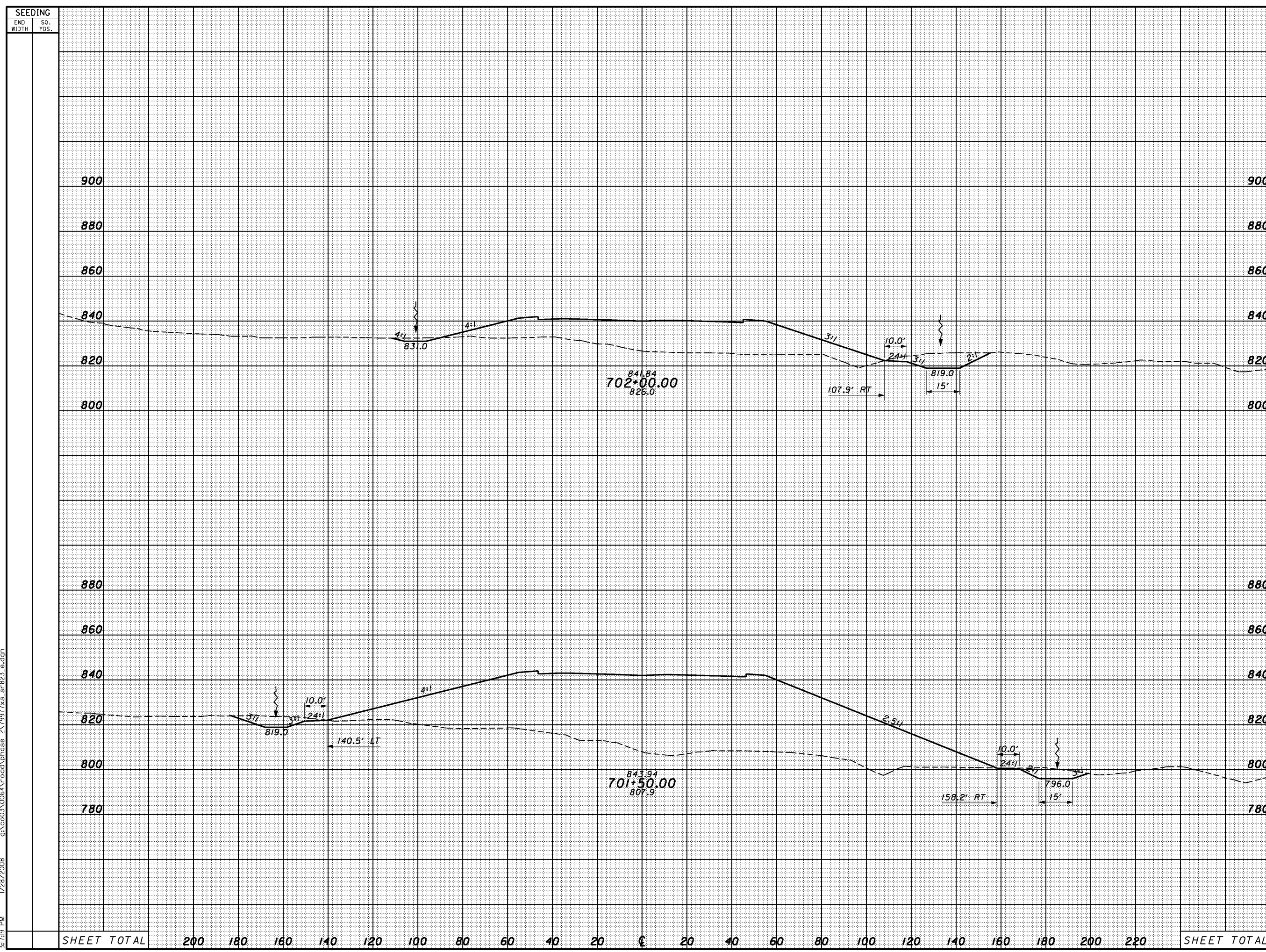
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 701+50.00 TO STA. 702+00.00

SCI-823-10.13

309

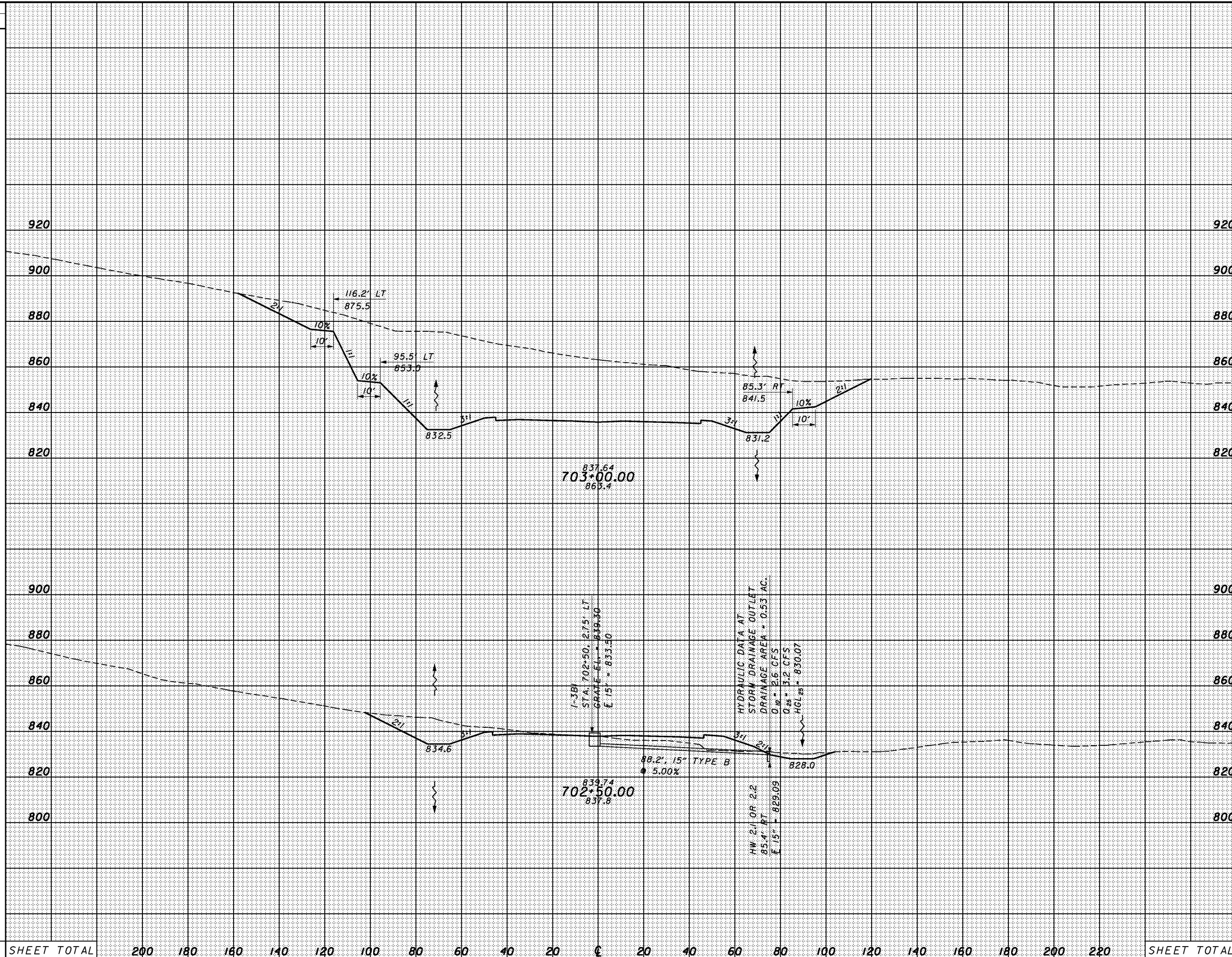


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3/17/20 PM 1/28/2008 g:\co03\0064\road\phase 2\79917xs_sr823.s.dgn

SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

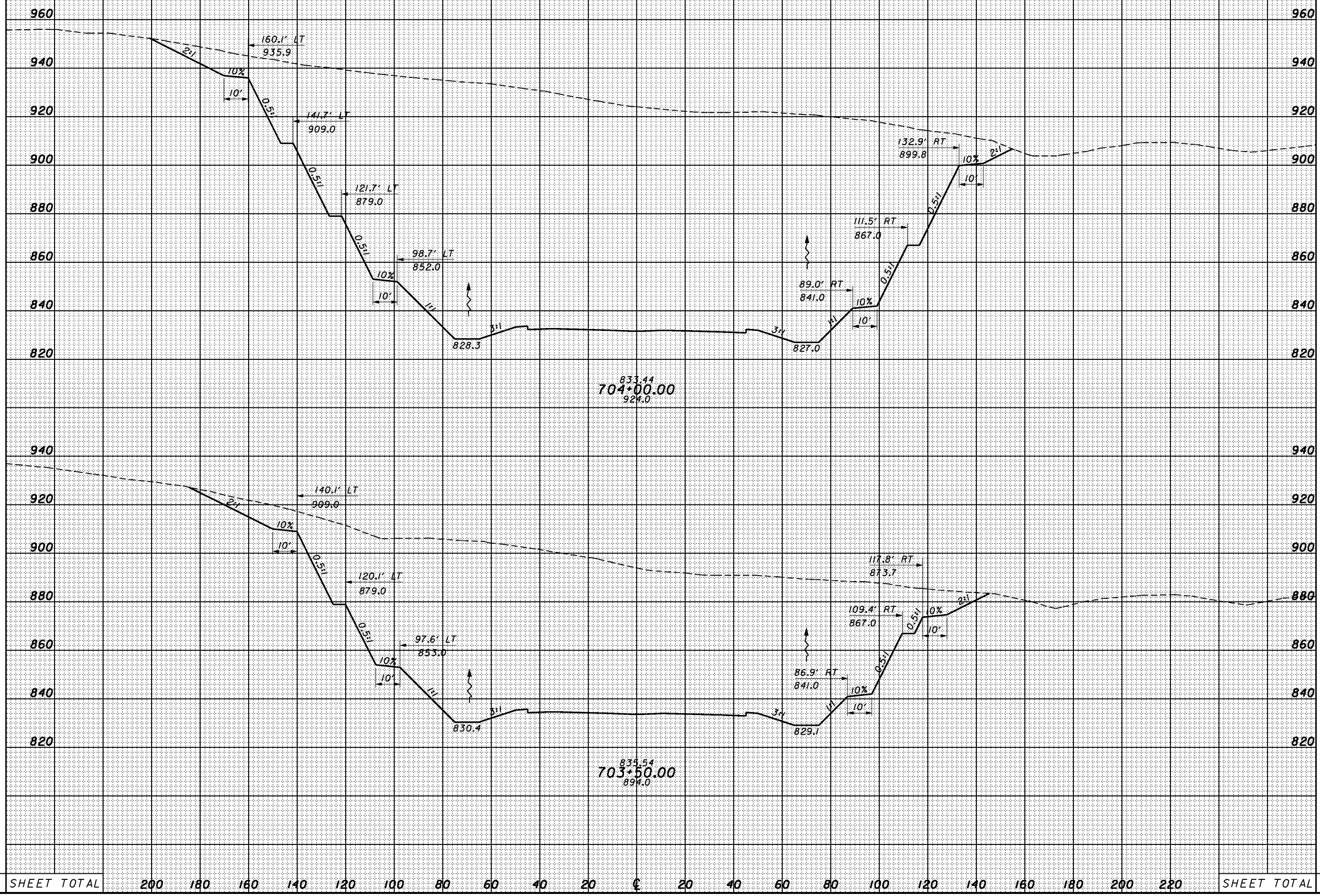
CROSS SECTIONS
SR823 - STA. 702+50.00 TO STA. 703+00.00

SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

3/12/2008 1/28/2008 g:\co03\0064\road\phase 2\7997\ss_sr823_e.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

SR823 - STA. 703+50.00 TO STA. 704+00.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3/17/22 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.s.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 704+50.00

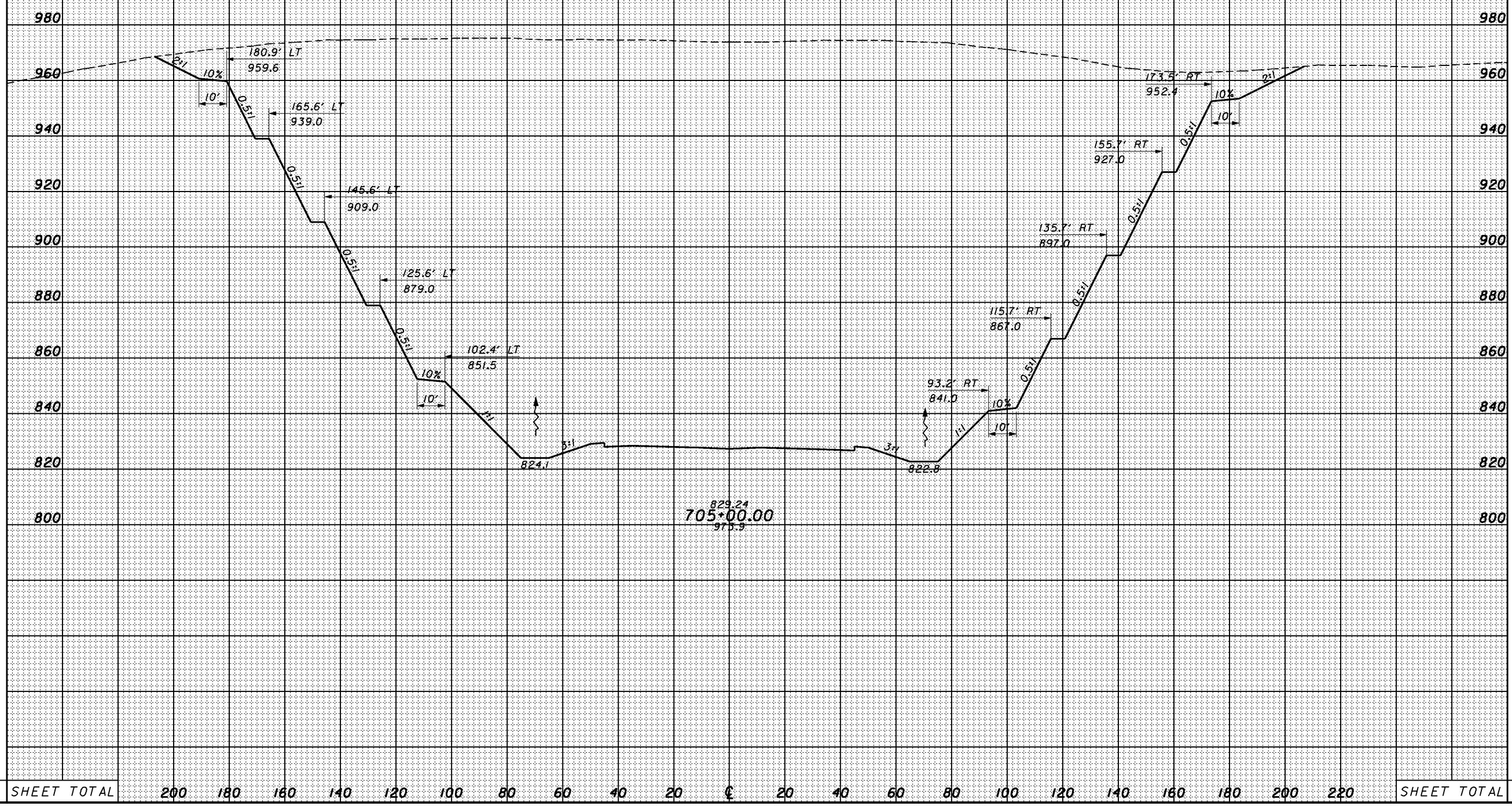
SCI-823-10.13

312

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3/12/23 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 705+00.00

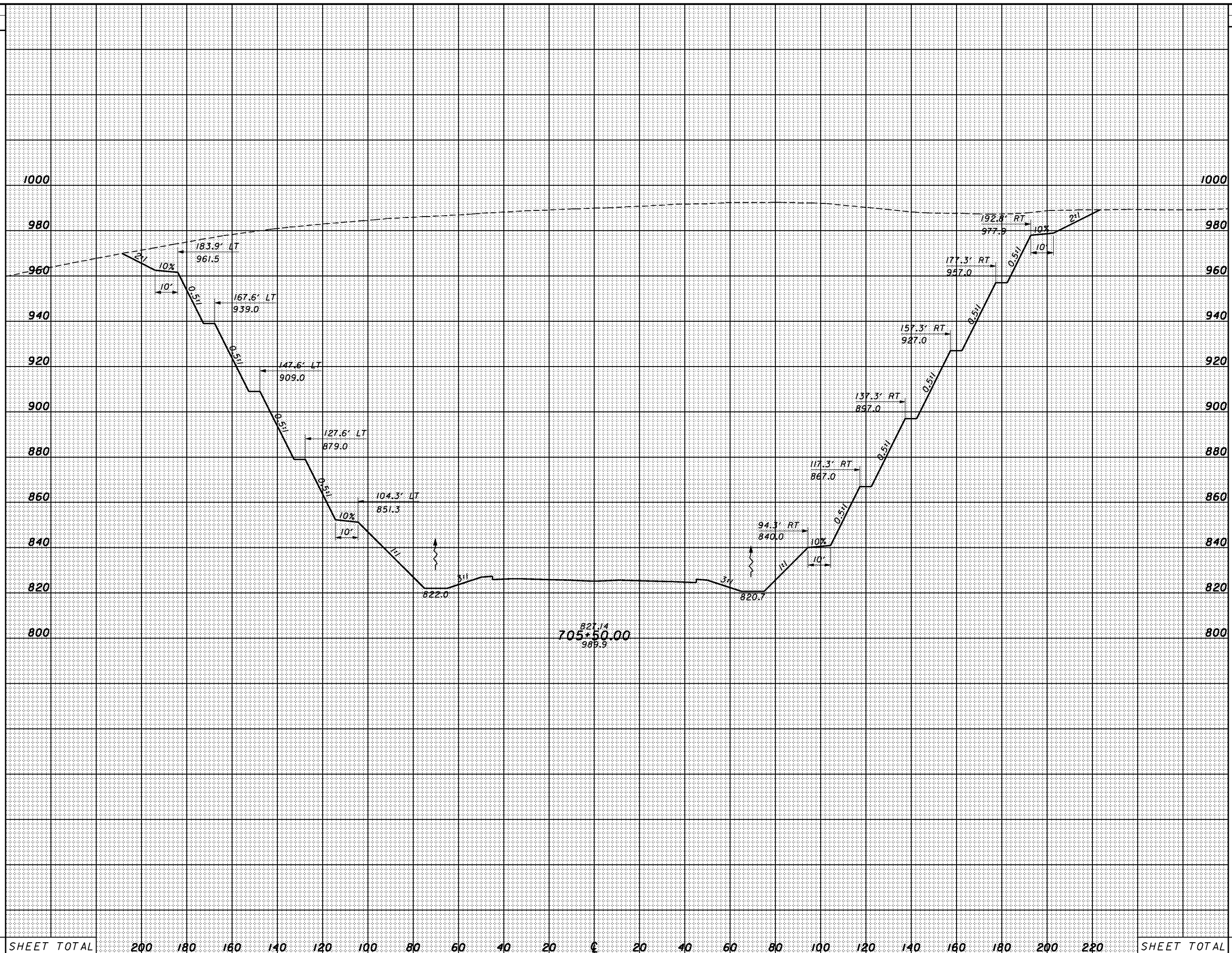
SCI-823-10.13

313

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3/1/24 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 705+50.00

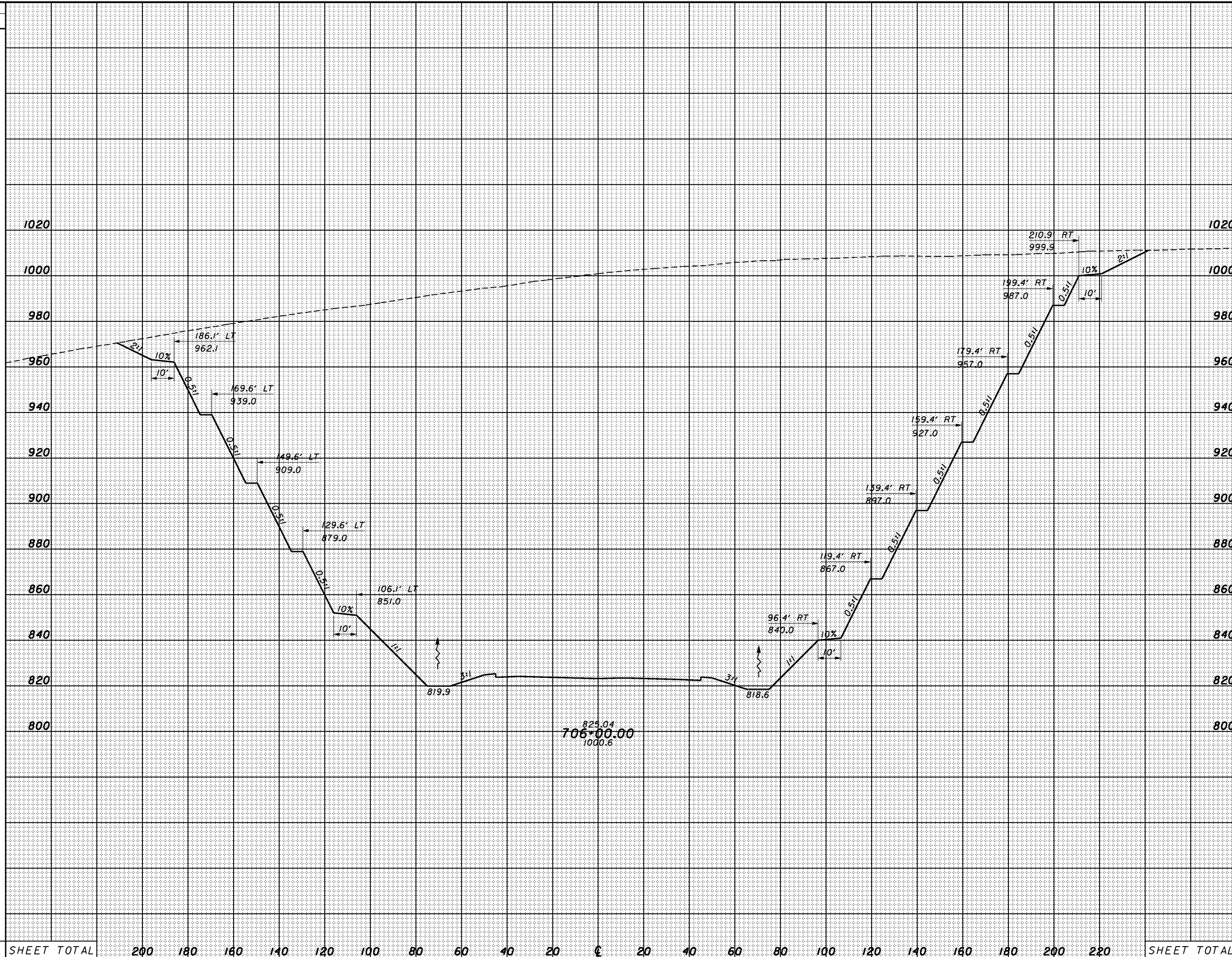
SCI-823-10.13

314

3/17/25 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.s.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 706+00.00

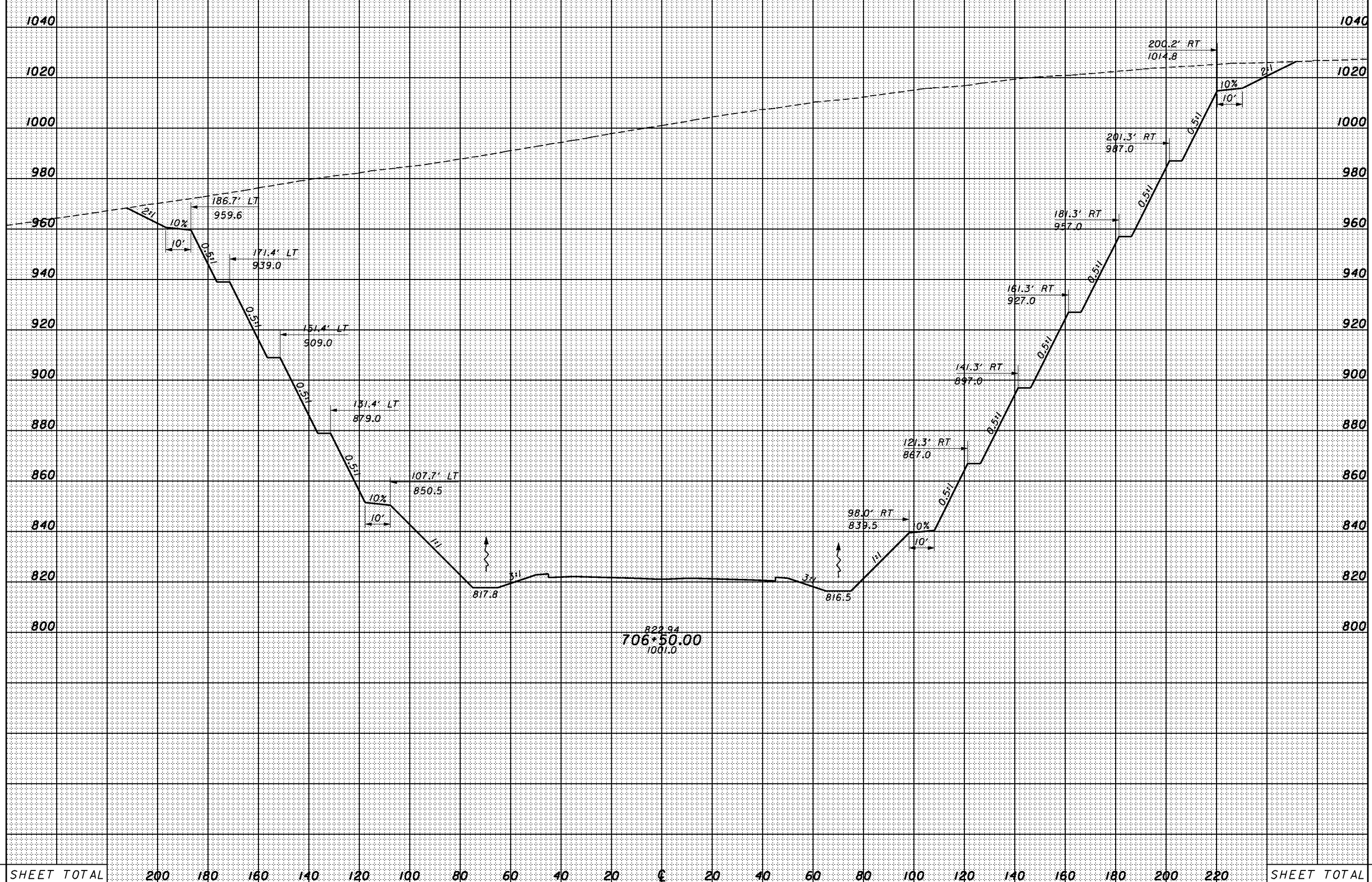
SCI-823-10.13

315

3/17/25 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_sr823.s.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 706+50.00

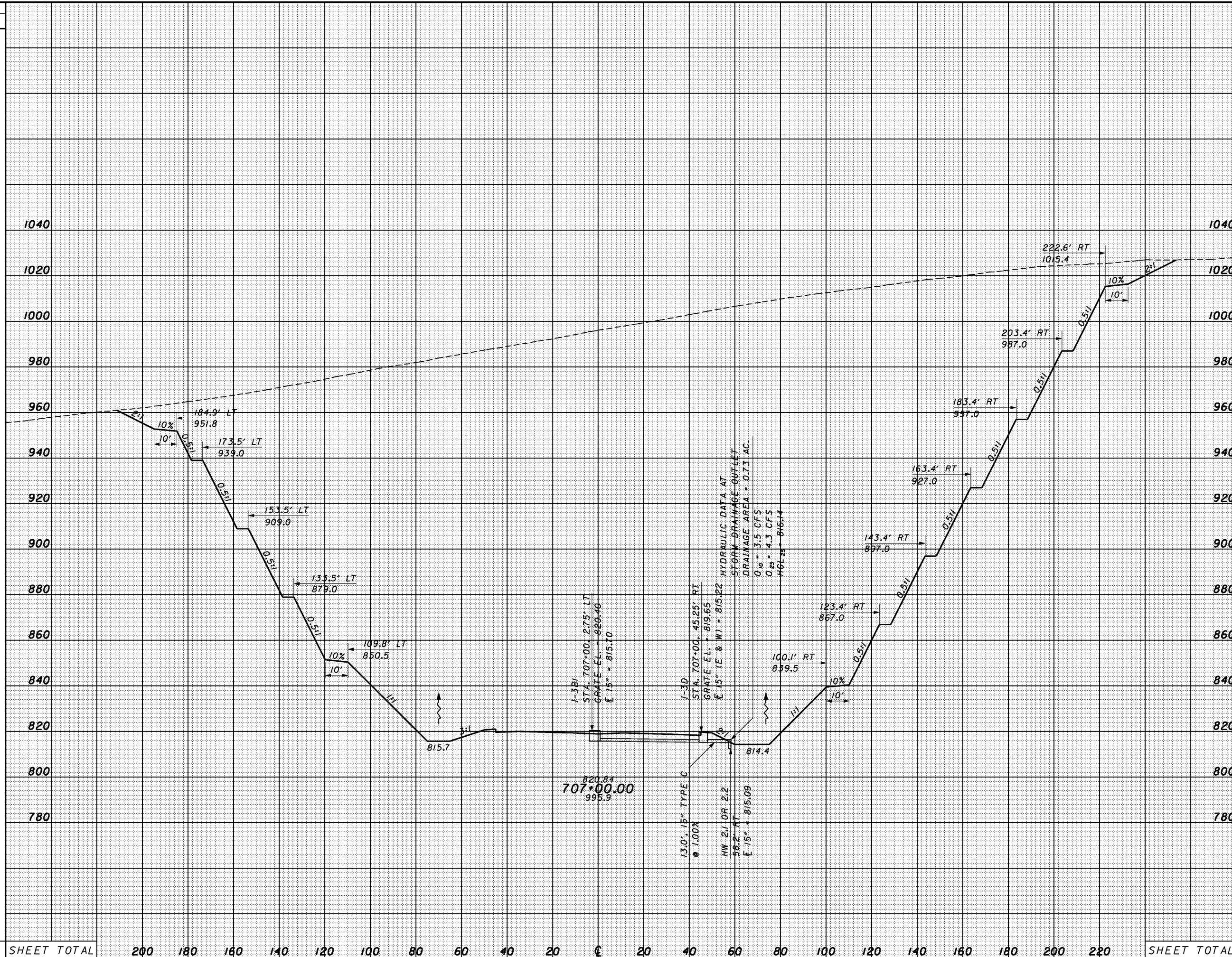
SCI-823-10.13

316

3/1/26 PM 1/28/2008 g:\co03\0064\road\phase 2\7997\sr-823.s.dgn

SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

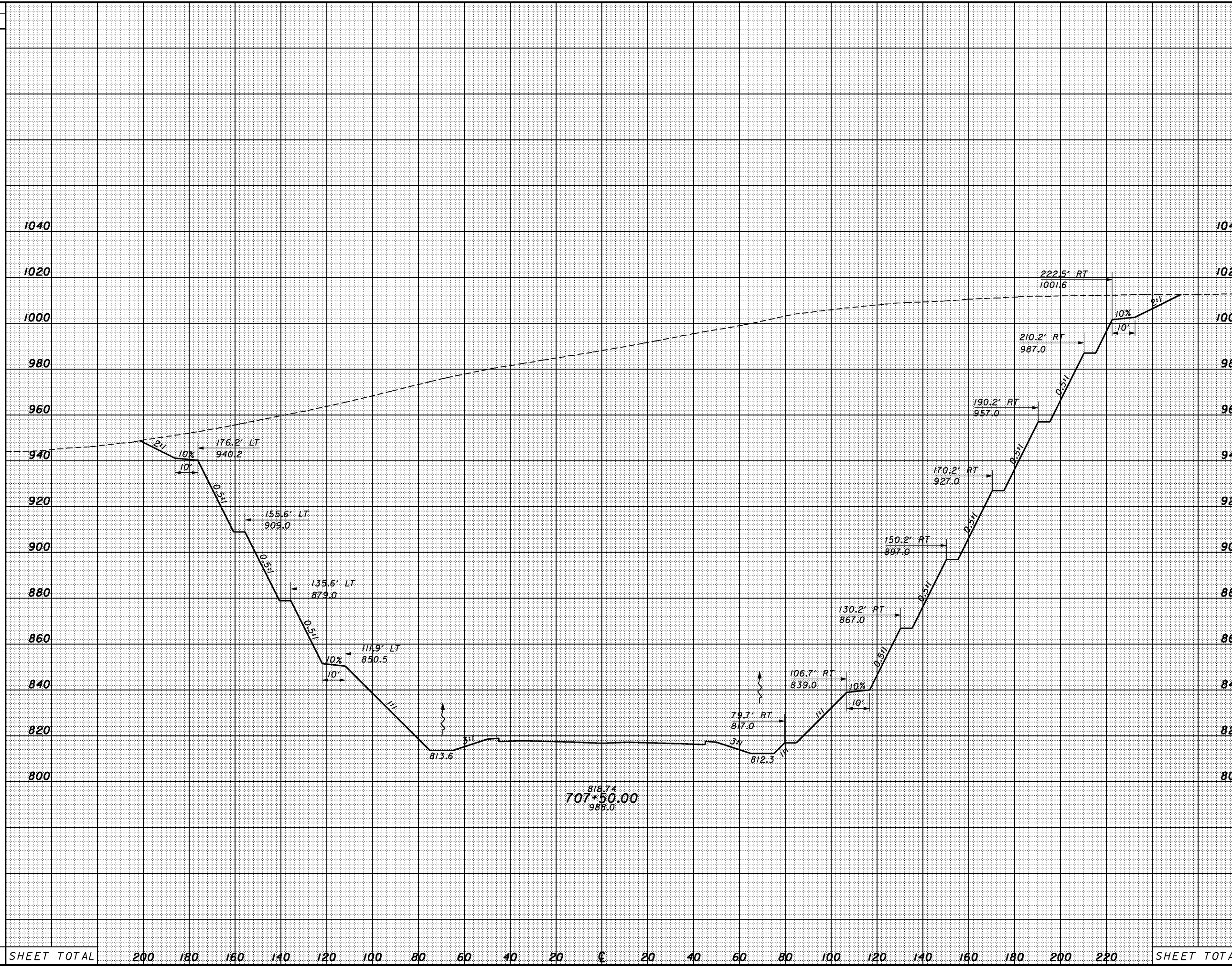
CROSS SECTIONS
SR823 - STA. 707+00.00

SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3/12/27 PM 1/28/2008 g:\co03\0064\road\phase 2\79917xs_sr823_e.dgn



CROSS SECTIONS
SR823 - STA. 707+50.00

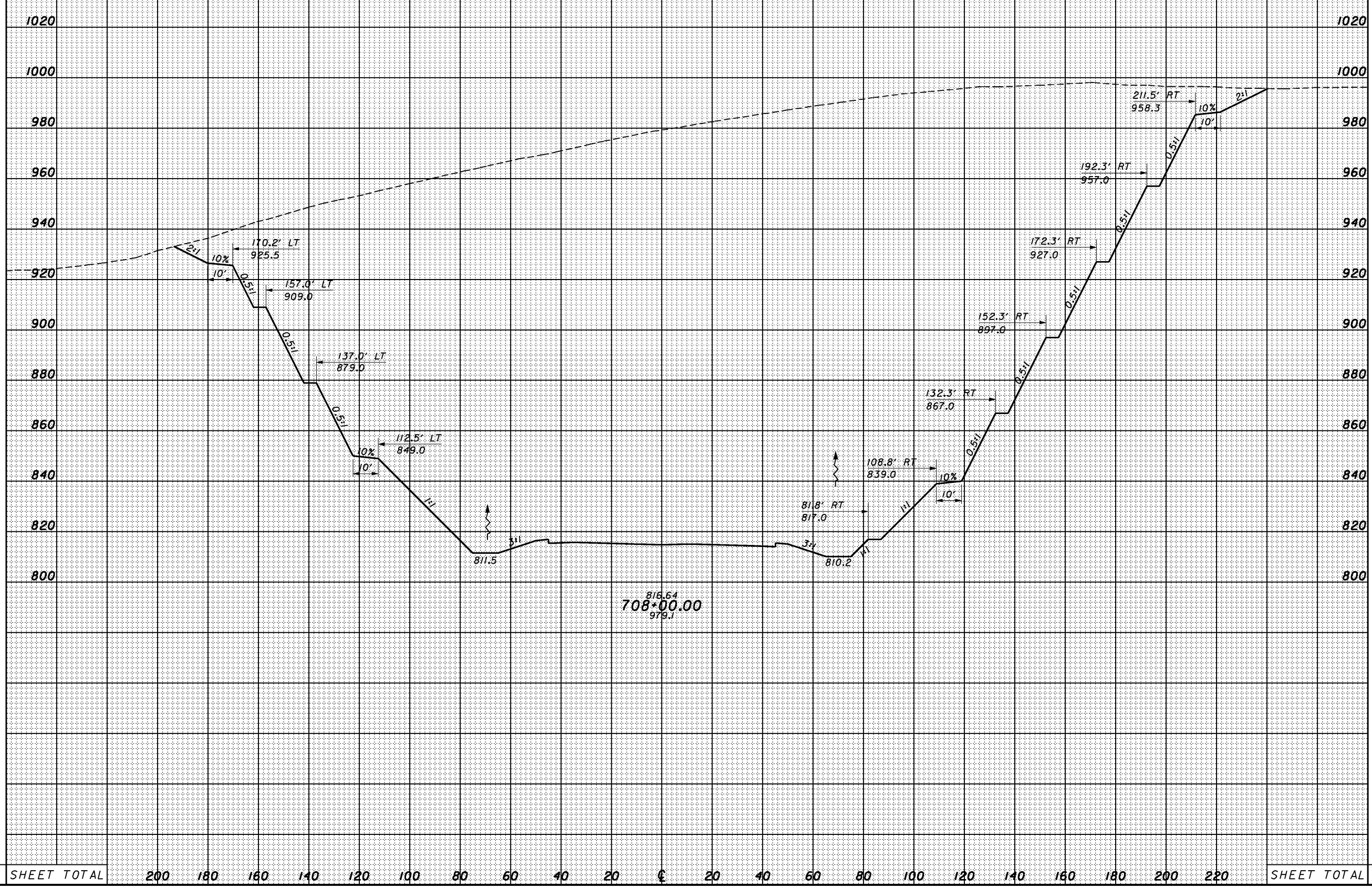
SCI-823-10.13

318

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3/1/28 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.s.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

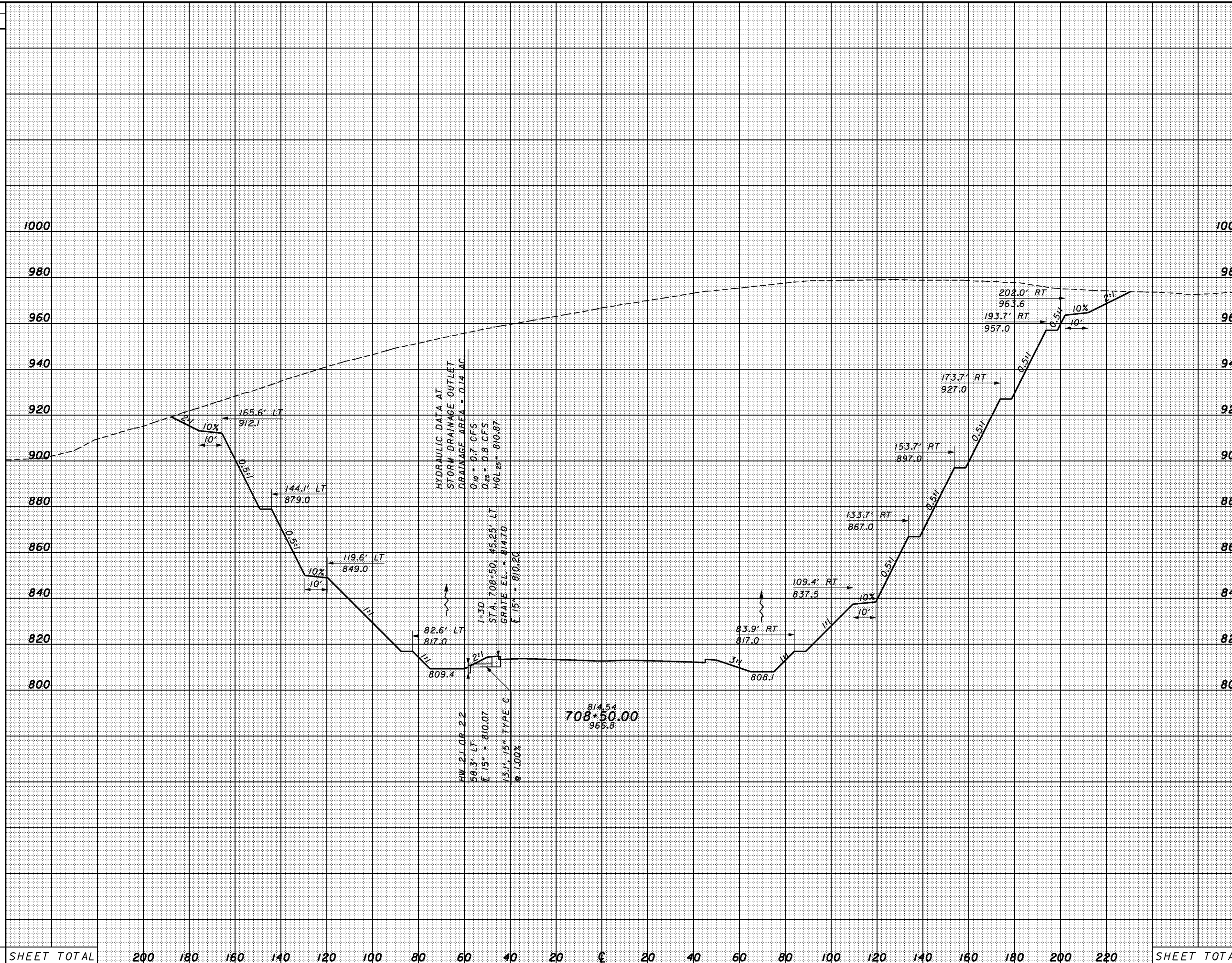
CROSS SECTIONS
SR823 - STA. 708+00.00

SCI-823-10.13

3/17/29 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.s.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

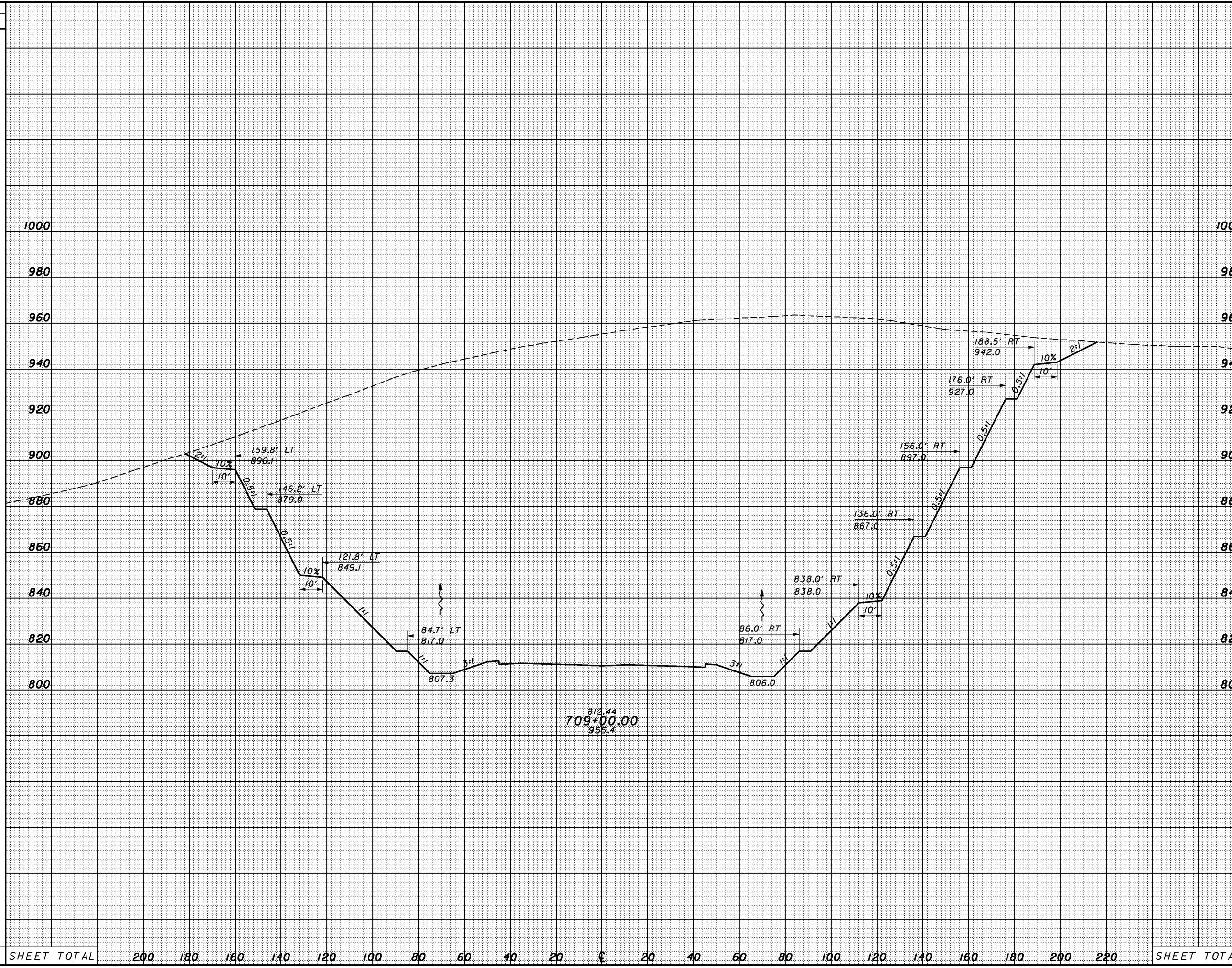
CROSS SECTIONS
SR823 - STA. 708+50.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3/17/10 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.s.dgn



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 709+00.00

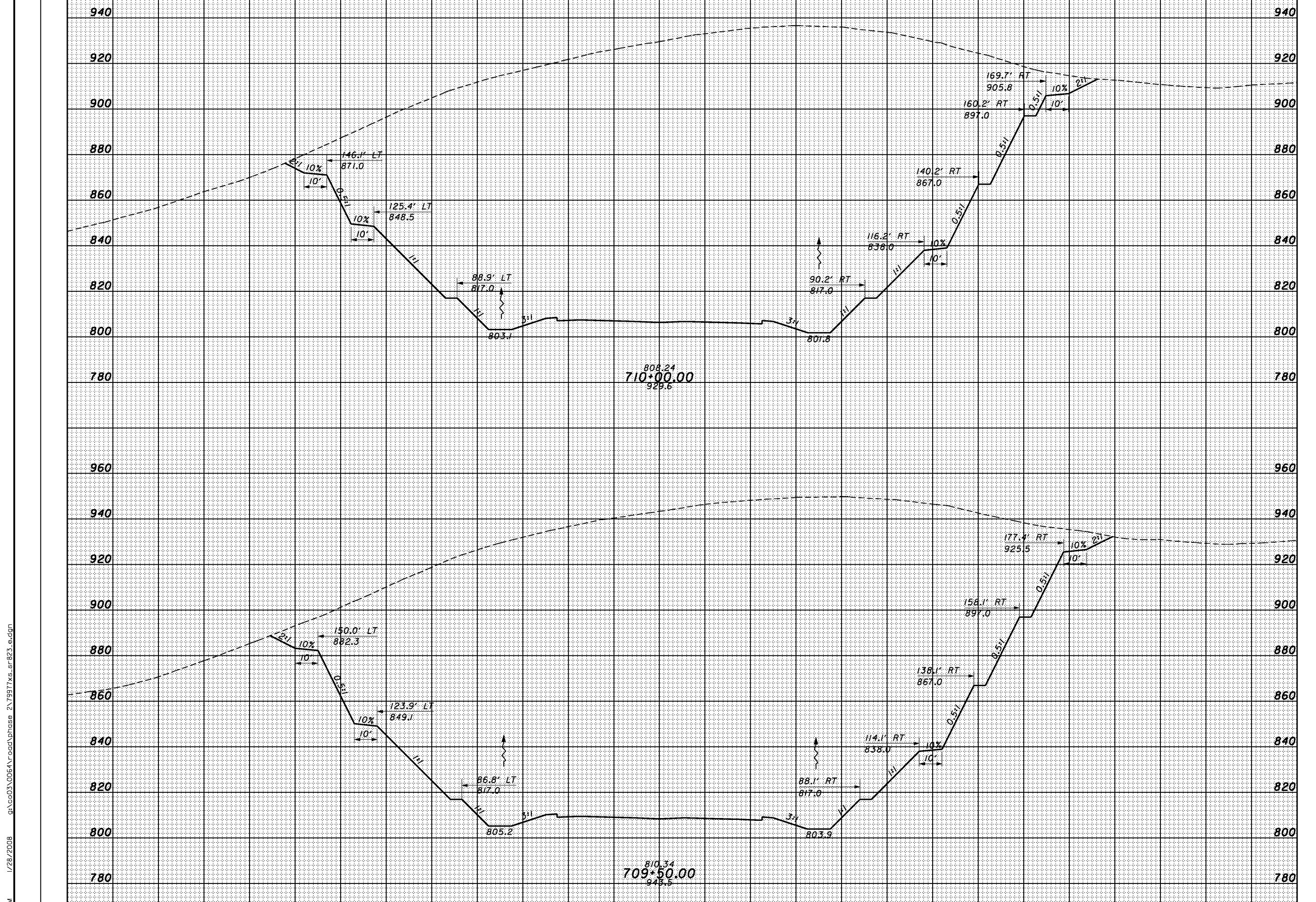
SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

940
920
900
880
860
840
820
800
780

940
920
900
880
860
840
820
800
780



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 709+50.00 TO STA. 710+00.00

SCI-823-10.13

322

1/28/2008 3:17:31 PM g:\c003\0064\road\phase 2\79977xs_sr823_e.dgn

3/13/12 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.s.dgn

SEEDING	
END WIDTH	SO. YDS.

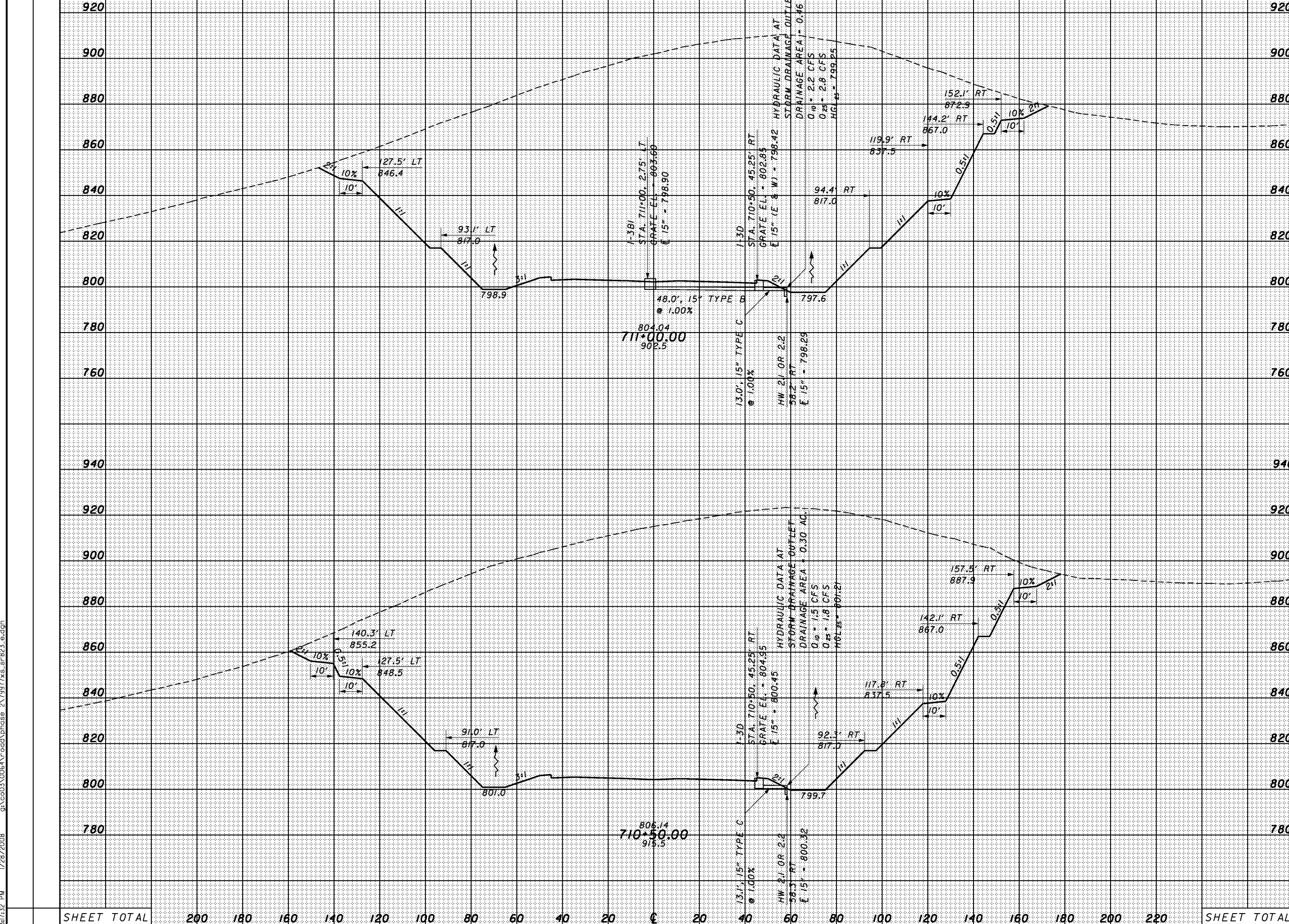
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED

CROSS SECTIONS
SR823 - STA. 710+50.00 TO STA. 711+00.00

SCI-823-10.13

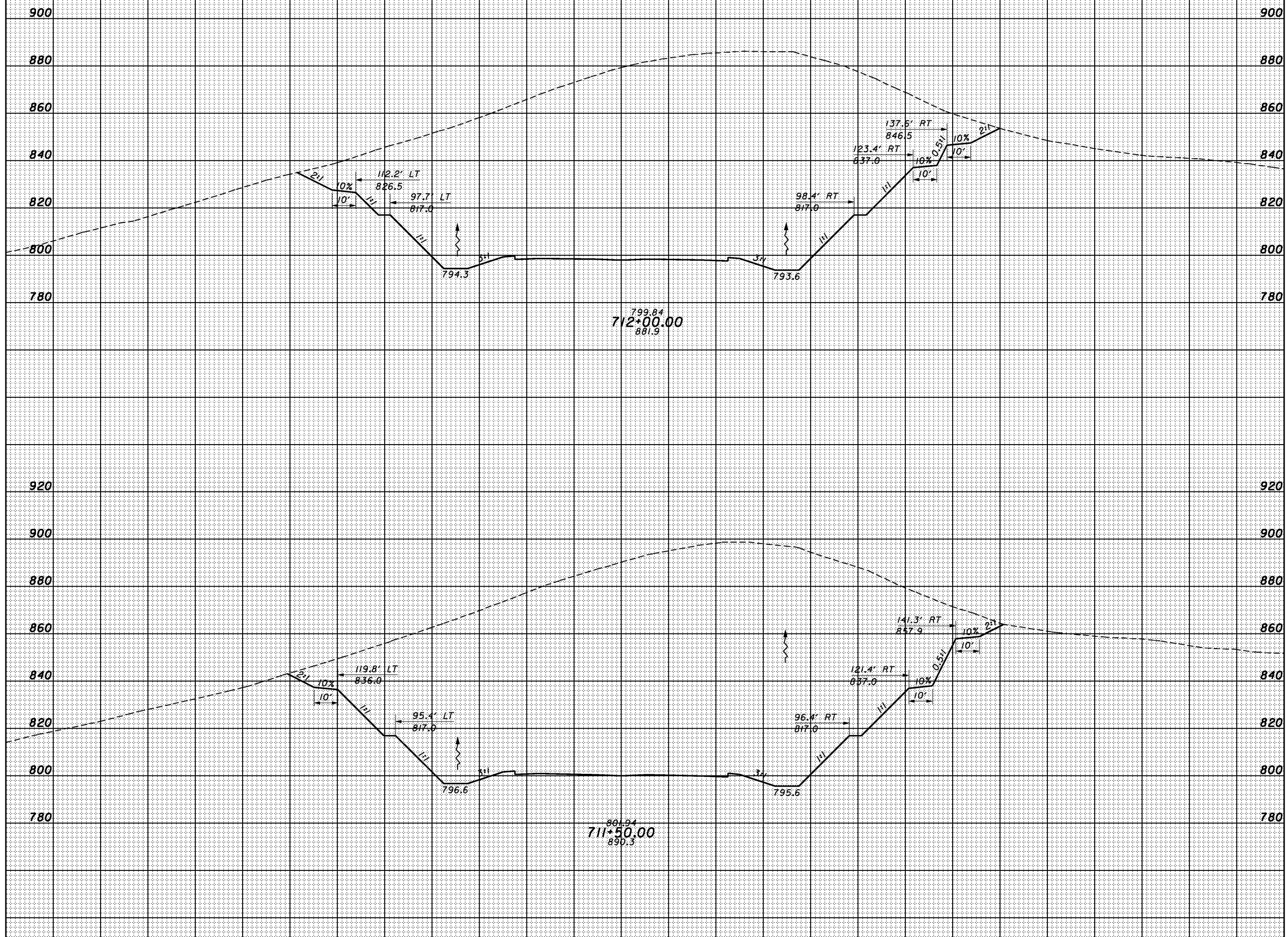
323



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
 SR823 - STA. 711+50.00 TO STA. 712+00.00

SCI-823-10.13

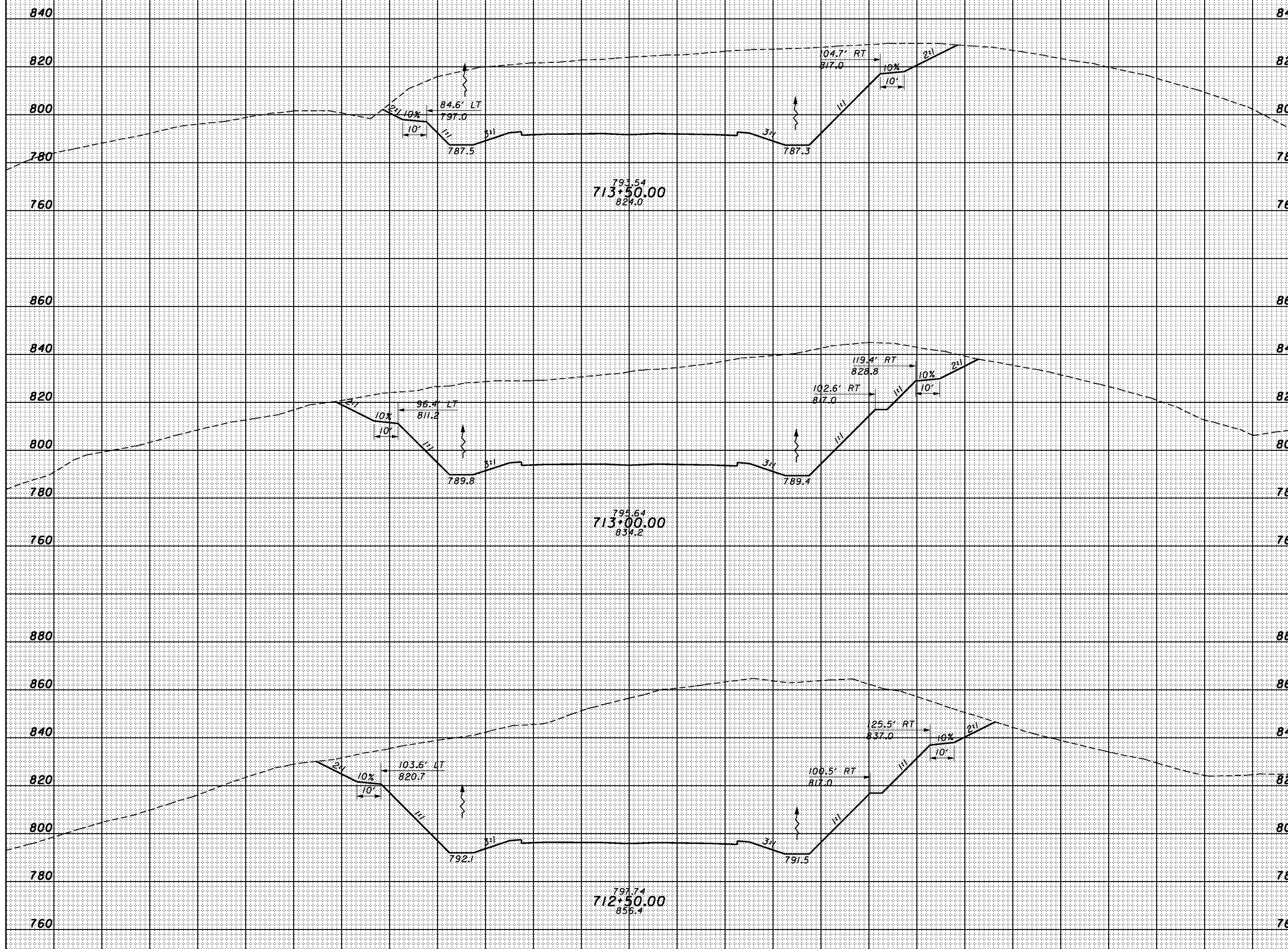
324

3/14/13 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_e.dgn

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3/17/14 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

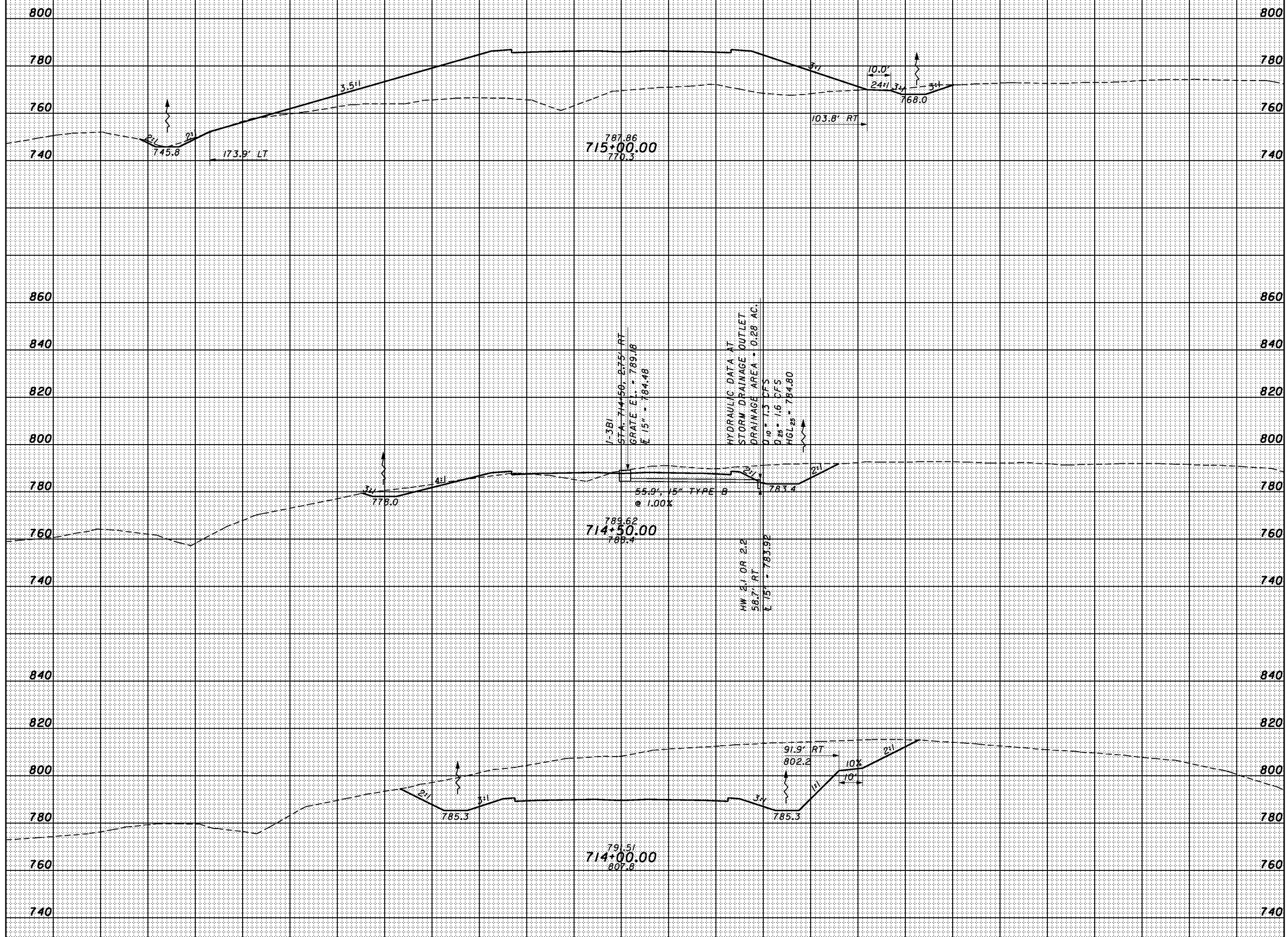
CROSS SECTIONS
SR823 - STA. 712+50.00 TO STA. 713+50.00

SCI-823-10.13

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SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 714+00.00 TO STA. 715+00.00

SCI-823-10.13

3/17/16 PM 1/28/2008 g:\c03\0064\road\phase 2\79917xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

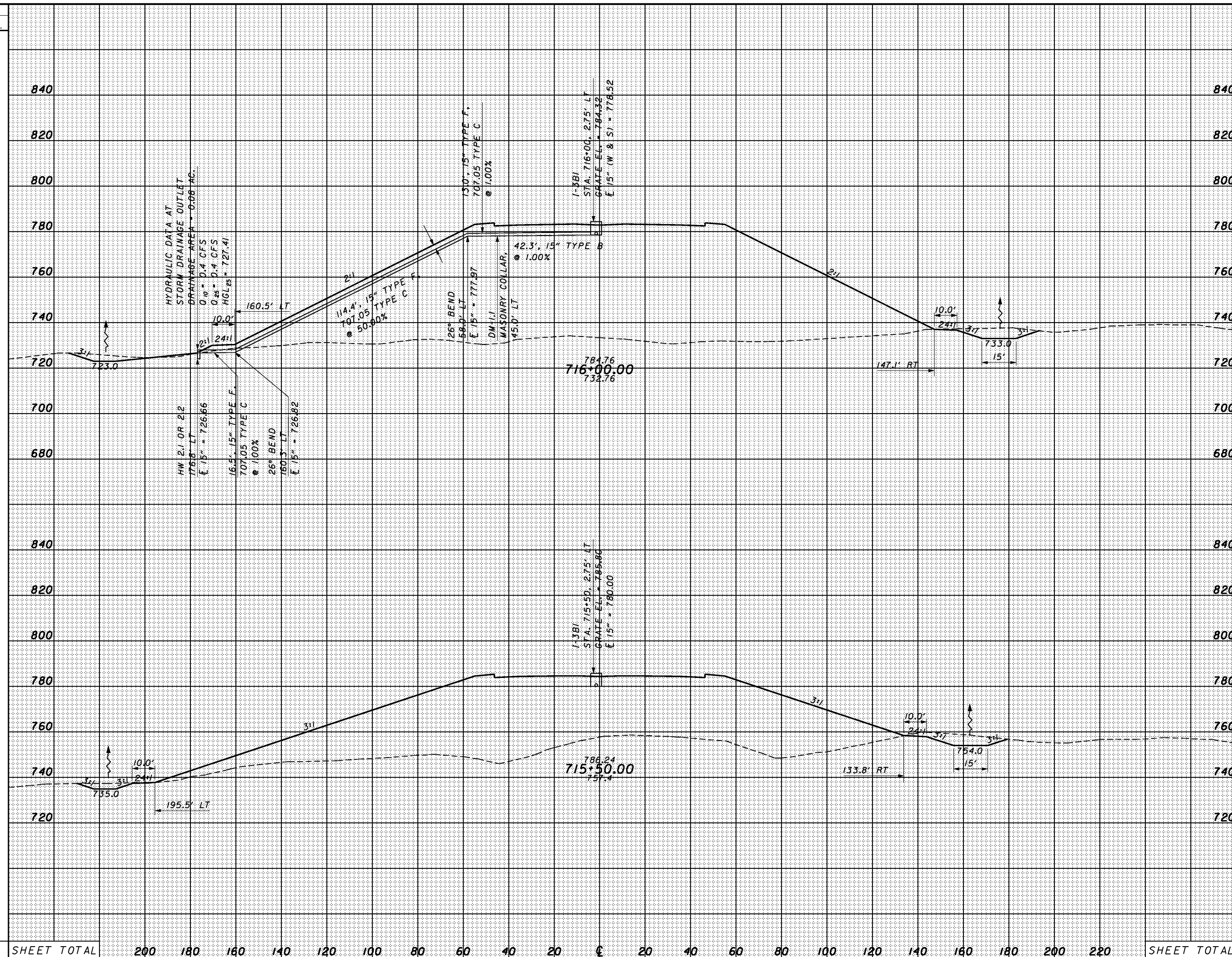
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 715+50.00 TO STA. 716+00.00

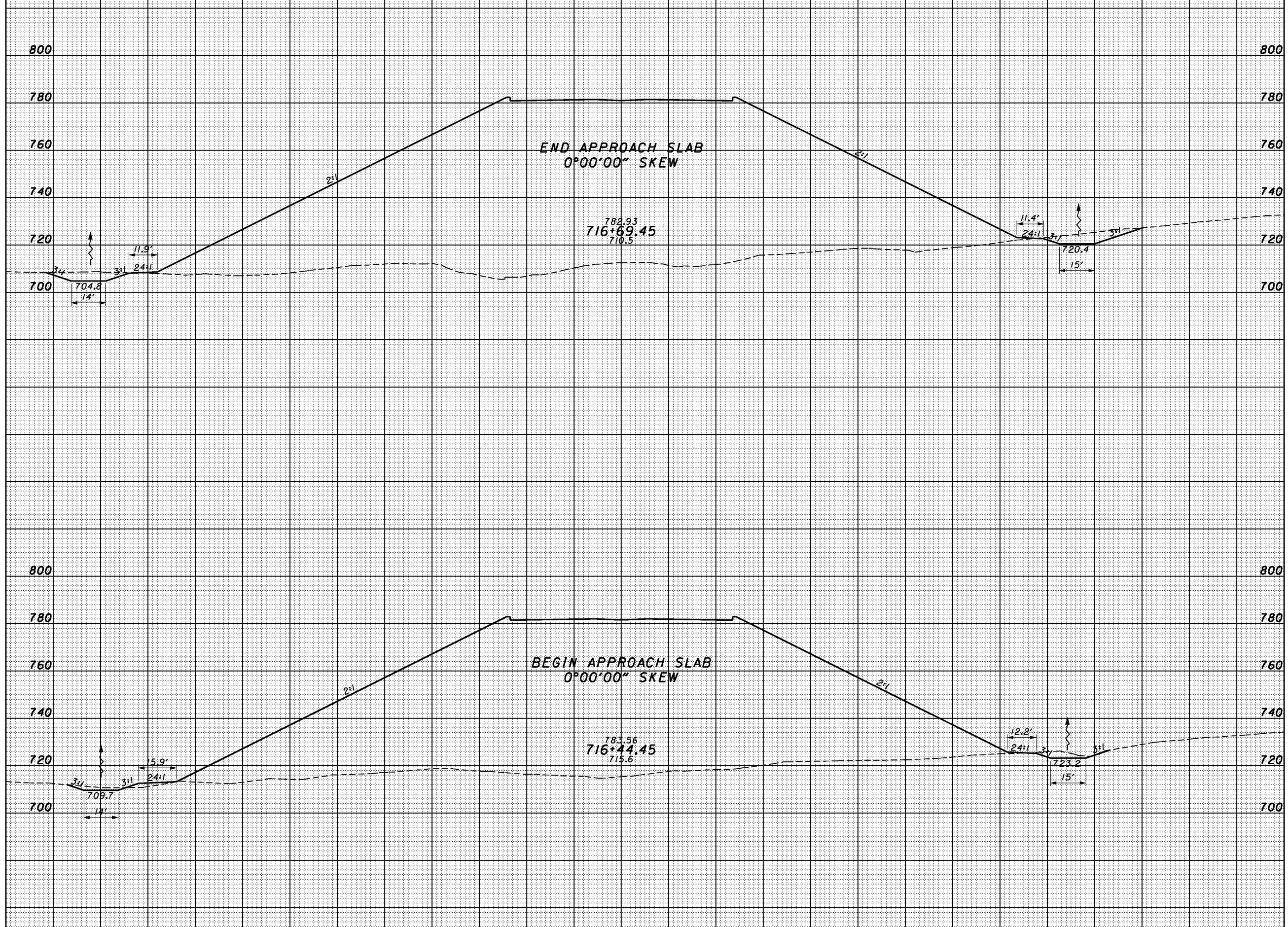
SCI-823-10.13

327



SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
 SR823 - STA. 716+44.45 TO STA. 716+69.45

SCI-823-10.13

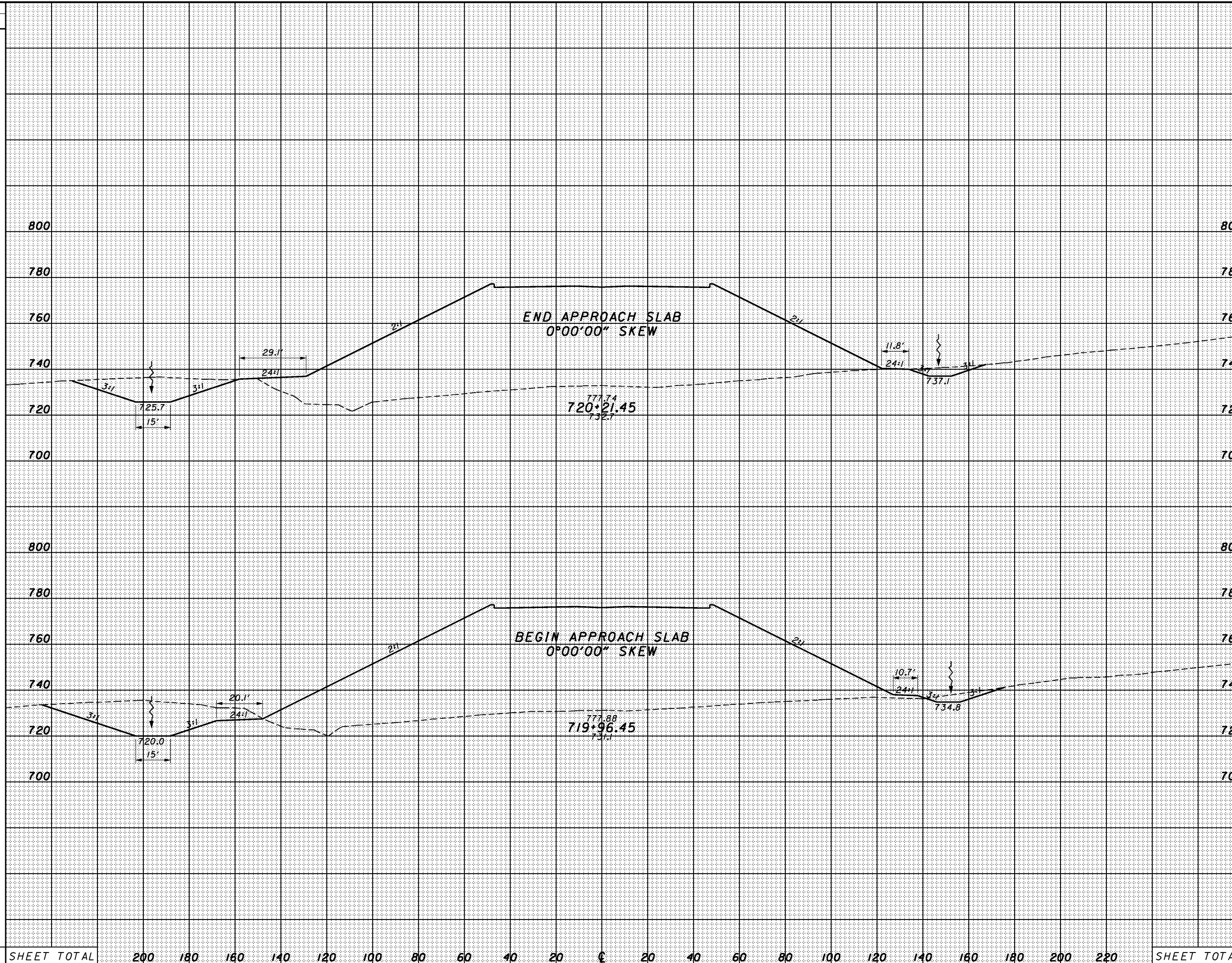
328

3/13/08 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_e.dgn

3/17/08 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_e.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

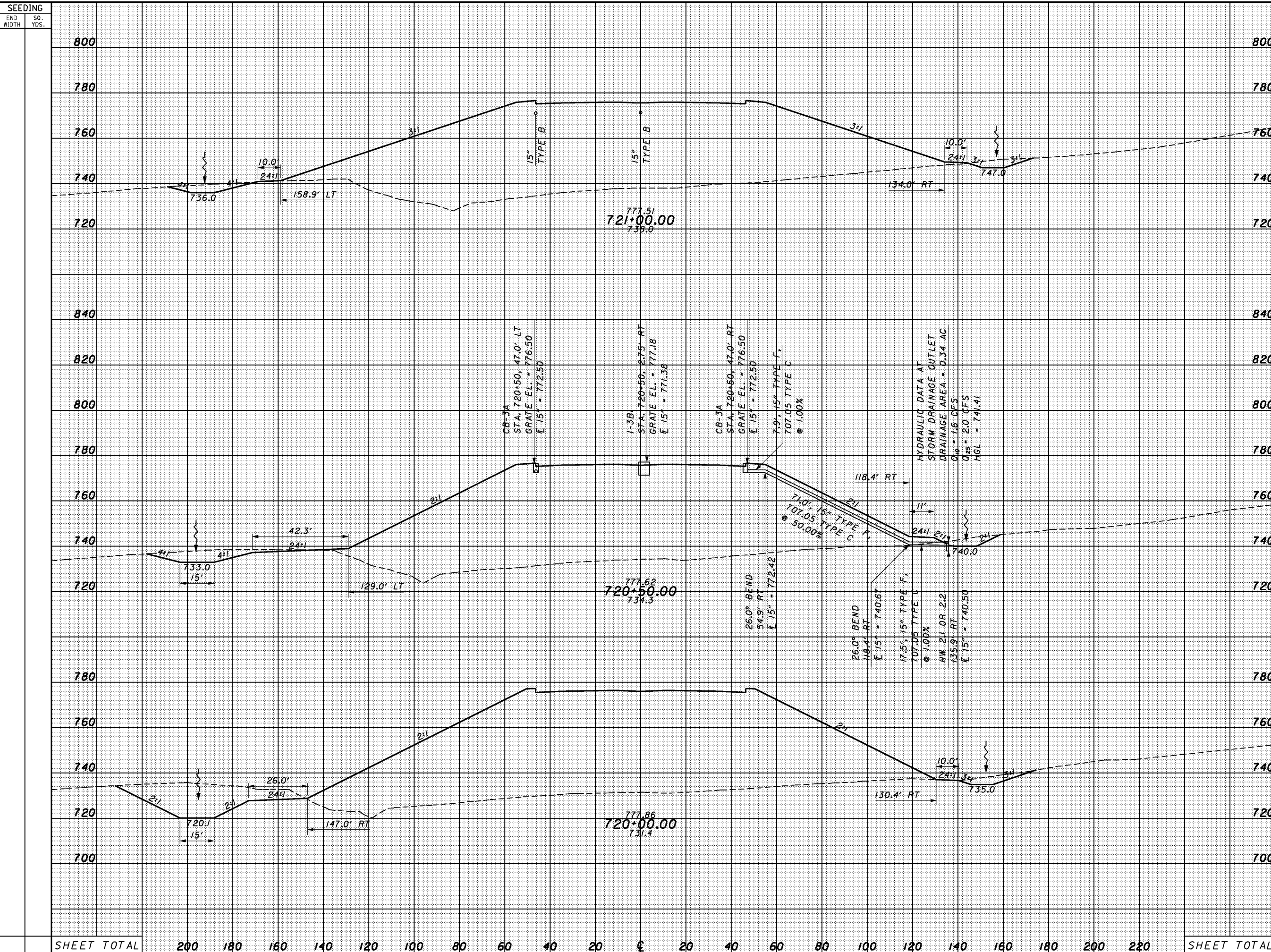


SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 719+96.45 TO STA. 720+21.45

SCI-823-10.13

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END	AREA		VOLUME		CALCULATED	CHECKED																	
	CUT	FILL	CUT	FILL																			
800																							
780																							
760																							
740																							
720																							
840																							
820																							
800																							
780																							
760																							
740																							
720																							
780																							
760																							
740																							
720																							
780																							
760																							
740																							
720																							
700																							
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 720+00.00 TO STA. 721+00.00

SCI-823-10.13

3/17/12 PM 1/28/2008 g:\co03\0064\road\phase 2\79917xs_sr823_1.dgn

SEEDING	
END WIDTH	SO. YDS.

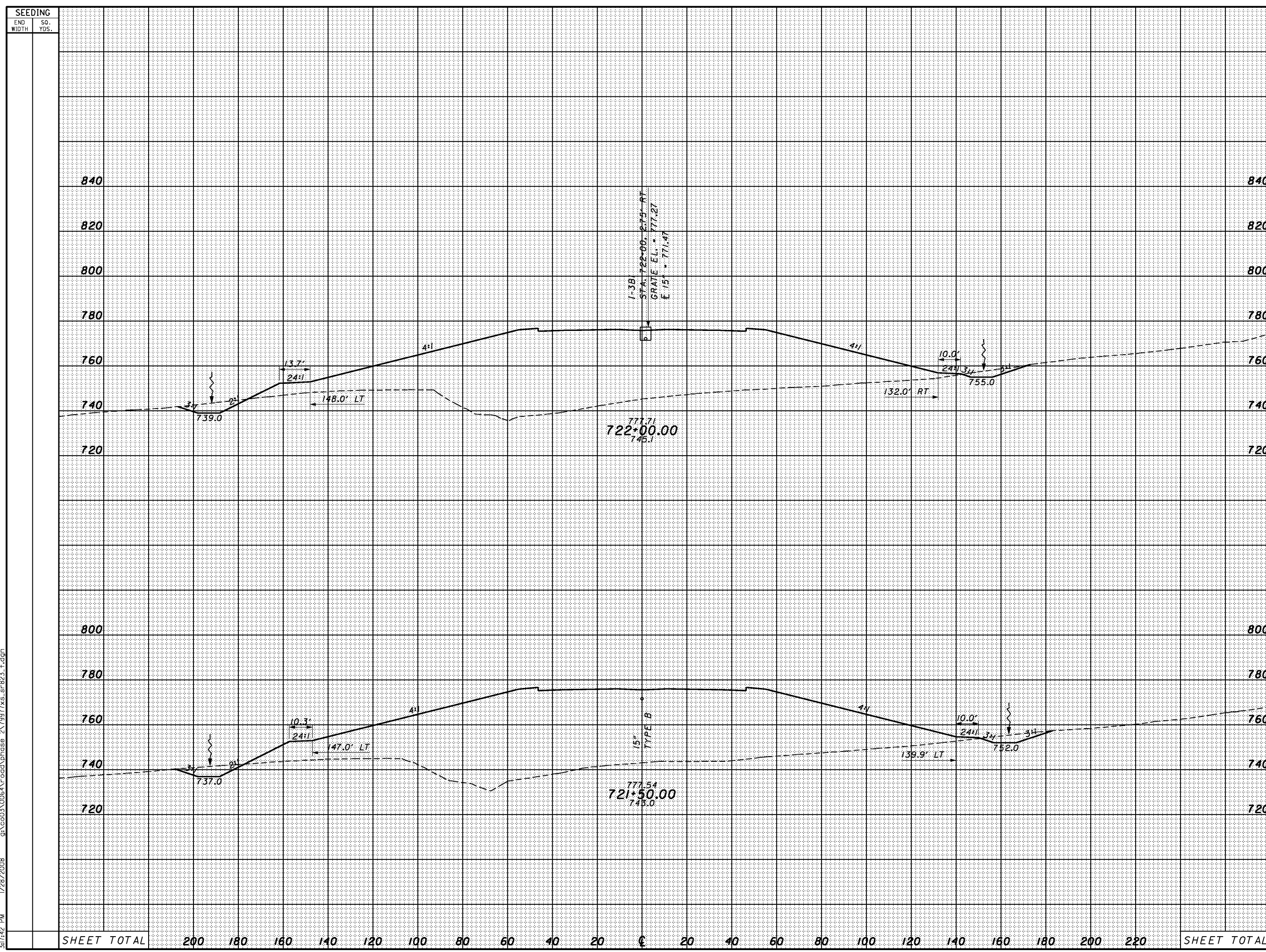
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 721+50.00 TO STA. 722+00.00

SCI-823-10.13

331



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3/17/13 PM 1/28/2008 g:\co03\0064\road\phase 2\79917xs_sr823_1.dgn

SEEDING	
END WIDTH	SO. YDS.

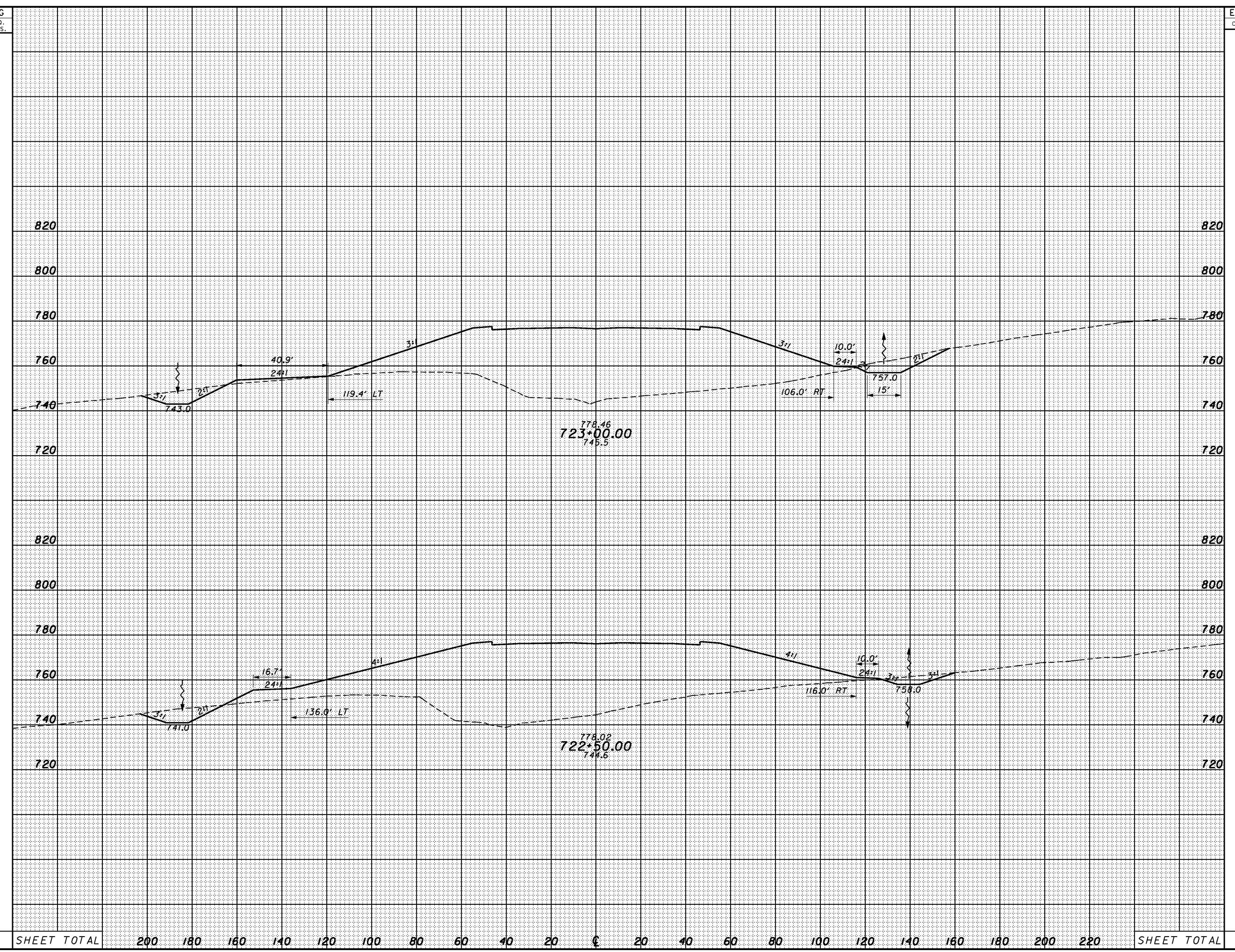
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 722+50.00 TO STA. 723+00.00

SCI-823-10.13

332

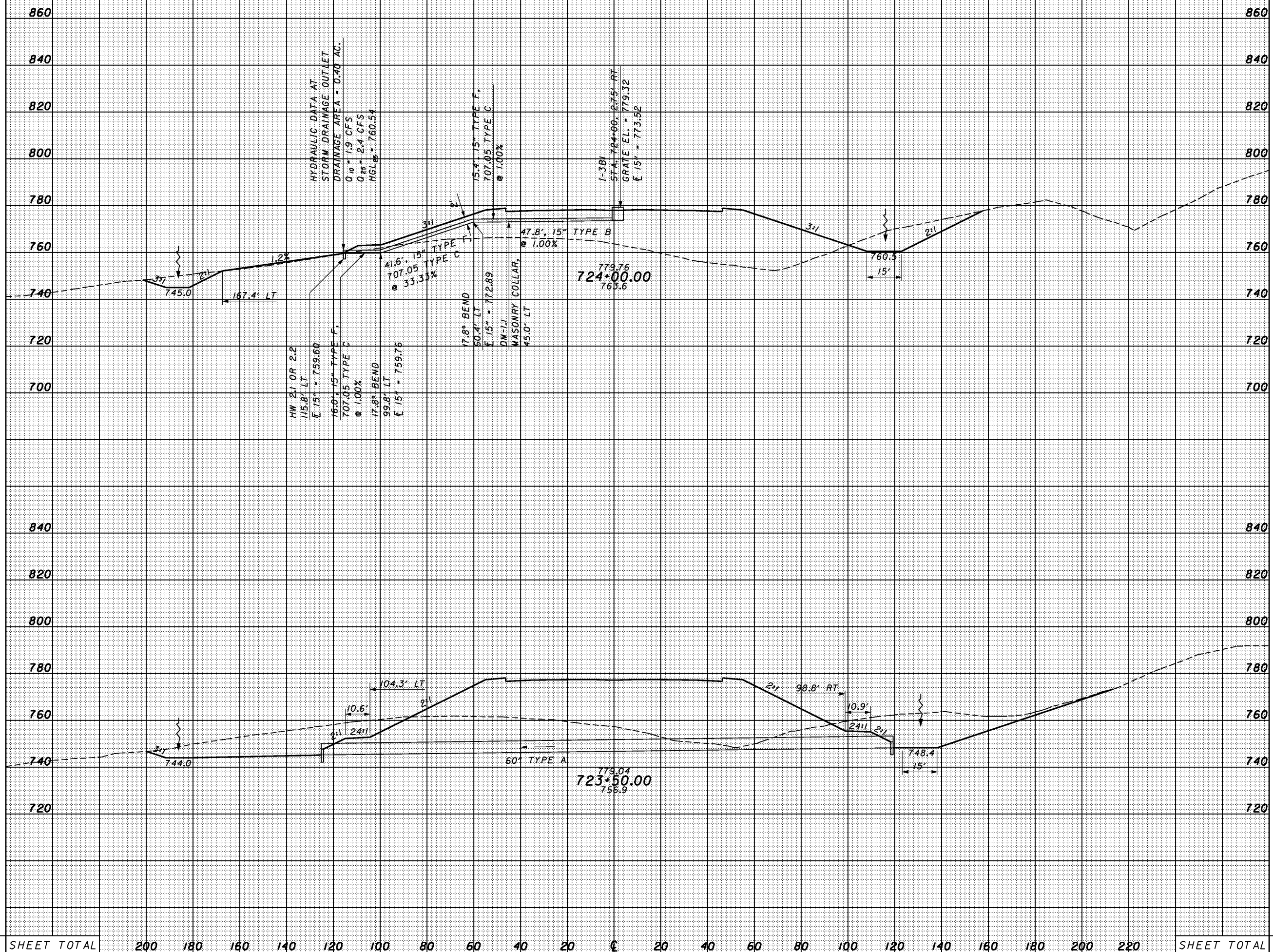


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3/17/14 PM 1/28/2008 g:\co03\0064\road\phase 2\79917xs_sr823.r.dgn

SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

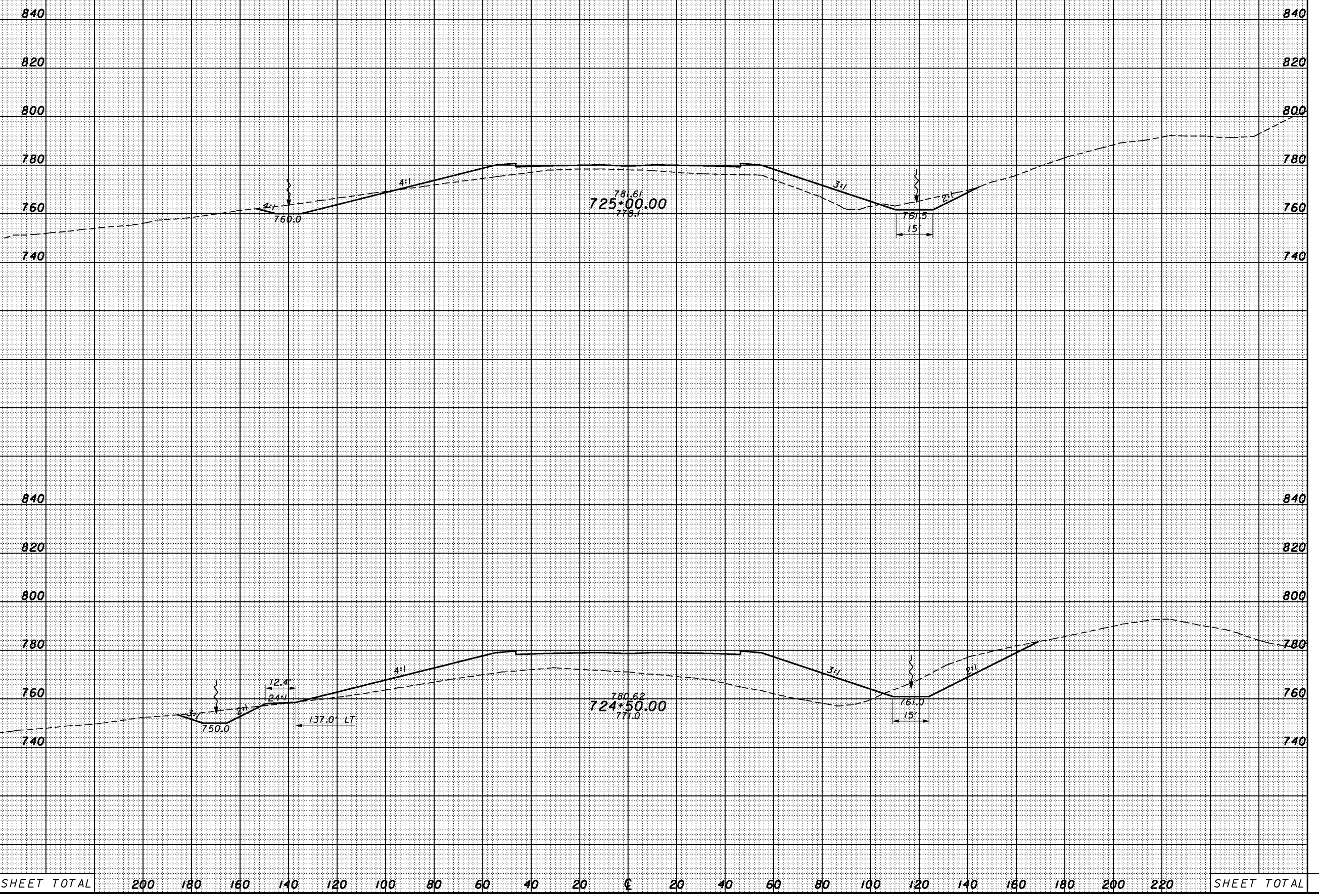
CROSS SECTIONS
SR823 - STA. 723+50.00 TO STA. 724+00.00

SCI-823-10.13

3/17/14 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_f.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



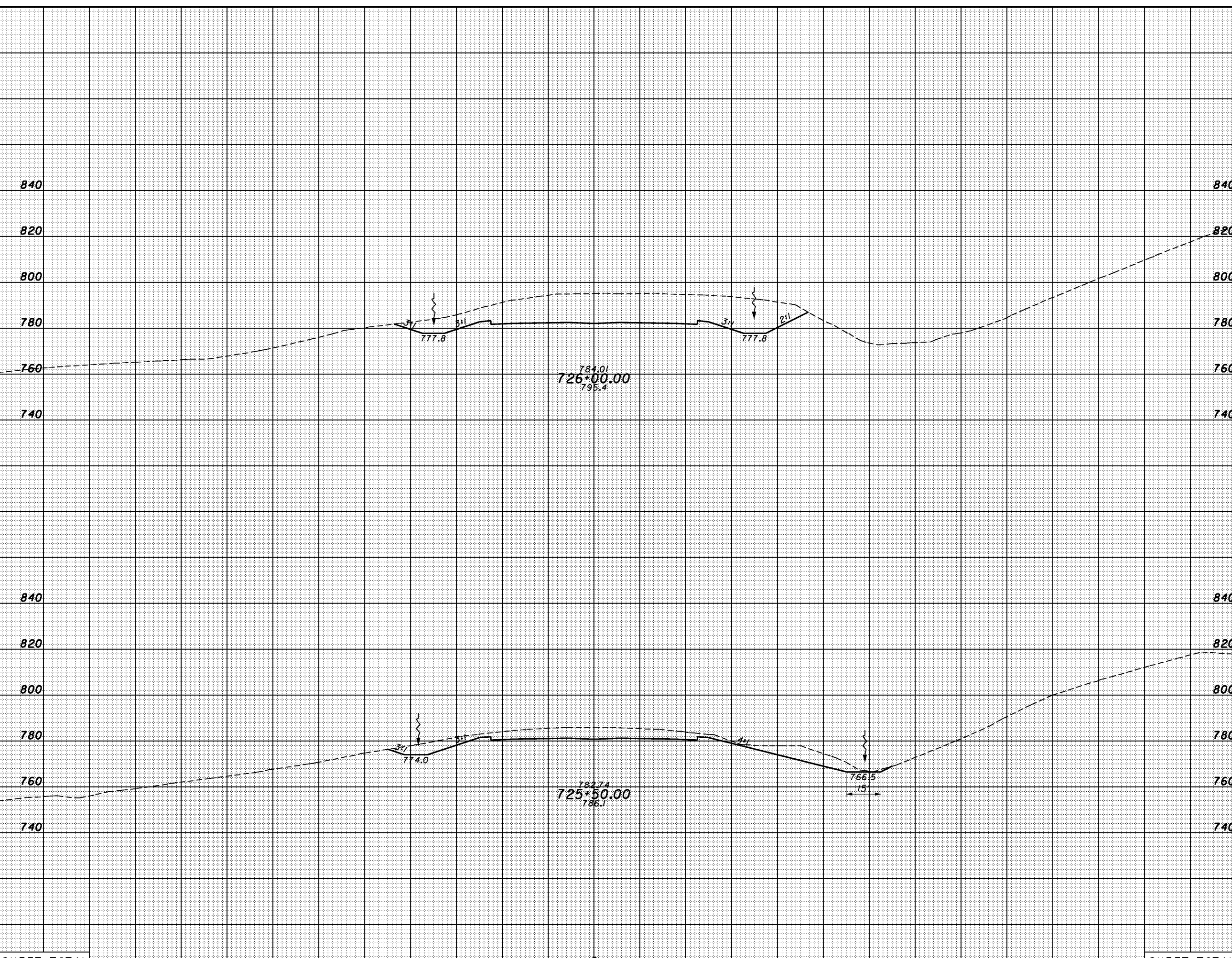
CROSS SECTIONS
SR823 - STA. 724+50.00 TO STA. 725+00.00

SCI-823-10.13

3/17/05 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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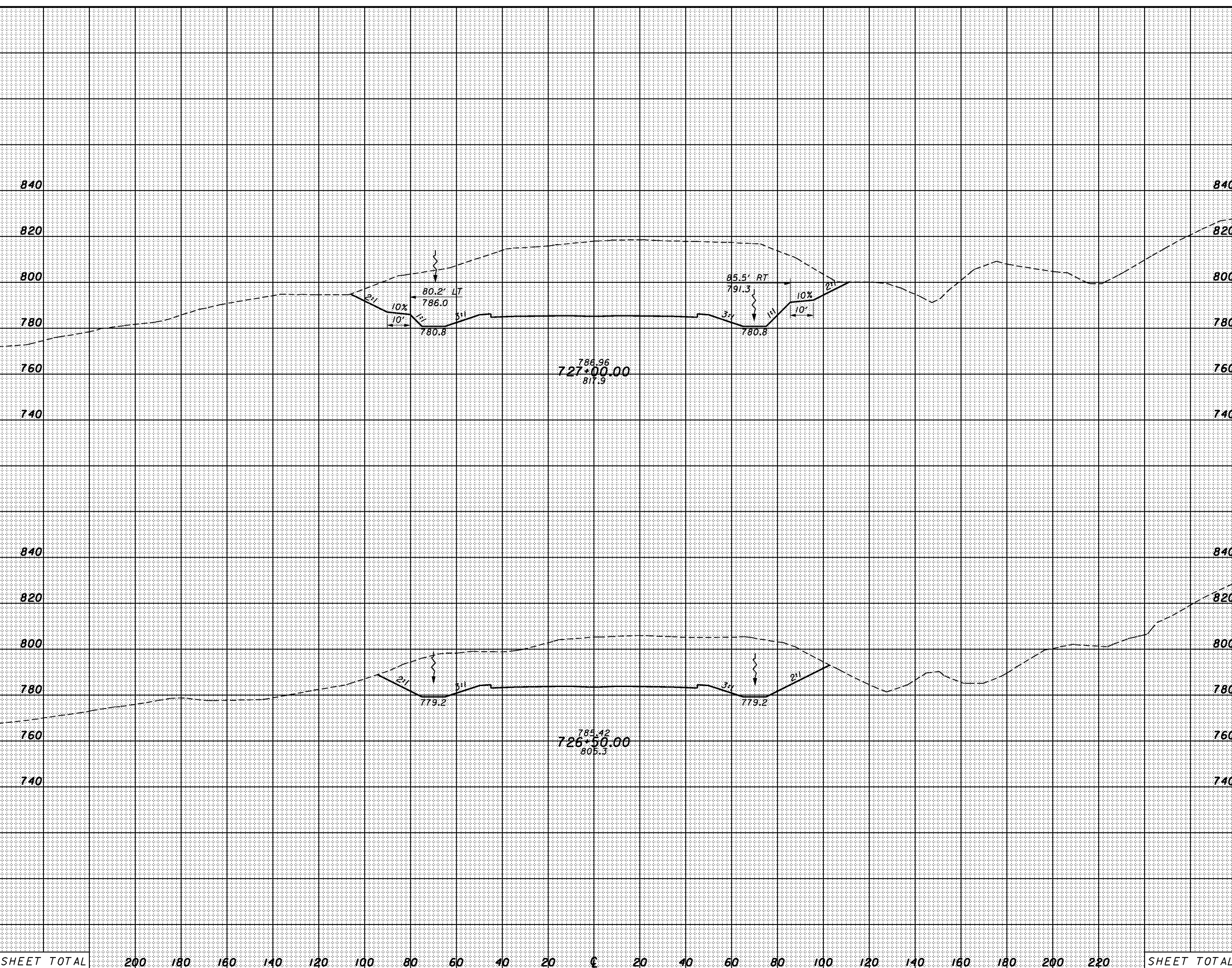
CROSS SECTIONS
SR823 - STA. 725+50.00 TO STA. 726+00.00

SCI-823-10.13

3/17/16 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	±	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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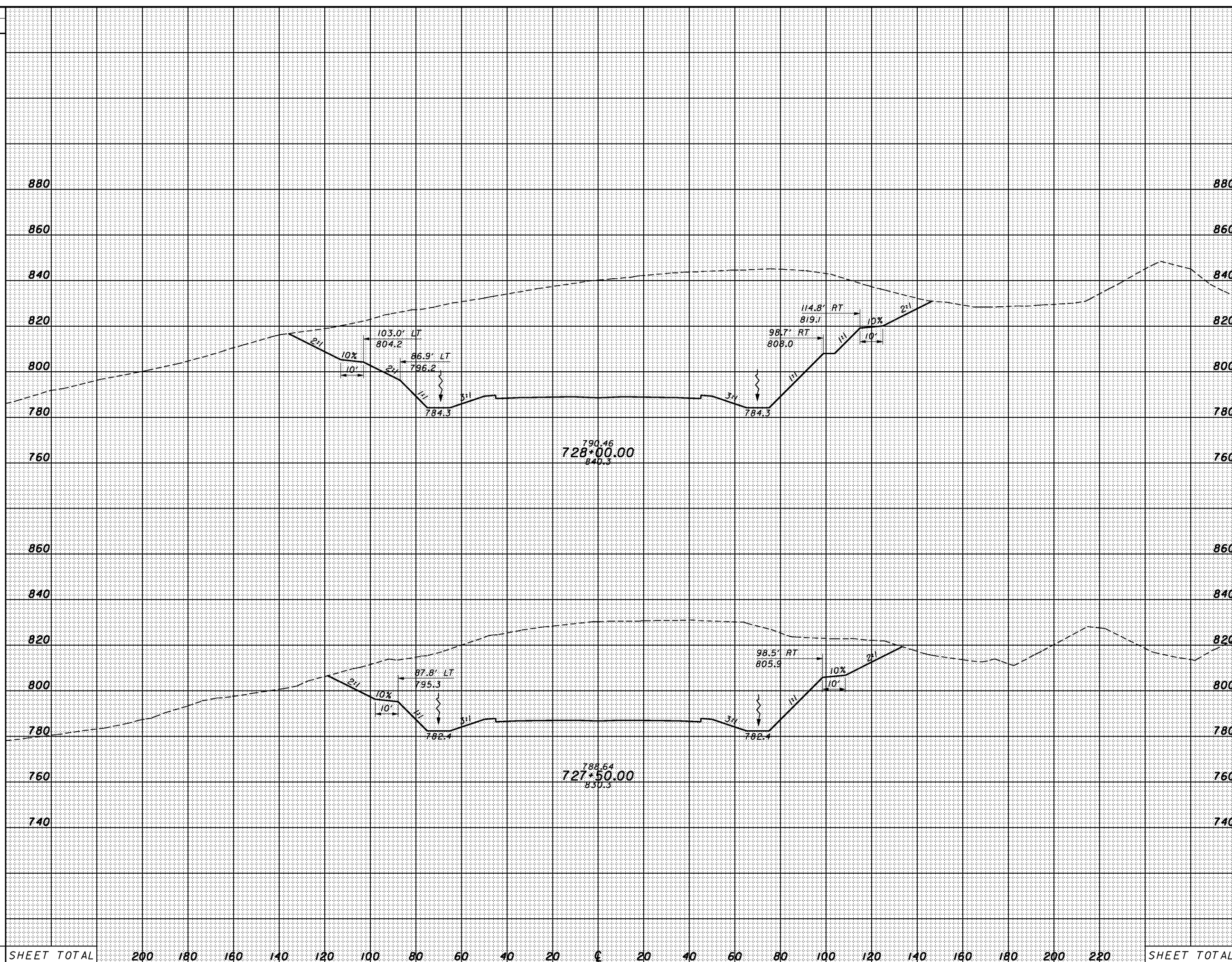
CROSS SECTIONS
 SR823 - STA. 726+50.00 TO STA. 727+00.00

SCI-823-10.13

3/17/17 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS
SR823 - STA. 727+50.00 TO STA. 728+00.00

SCI-823-10.13

3/17/08 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_1.dgn

SEEDING	
END WIDTH	SO. YDS.

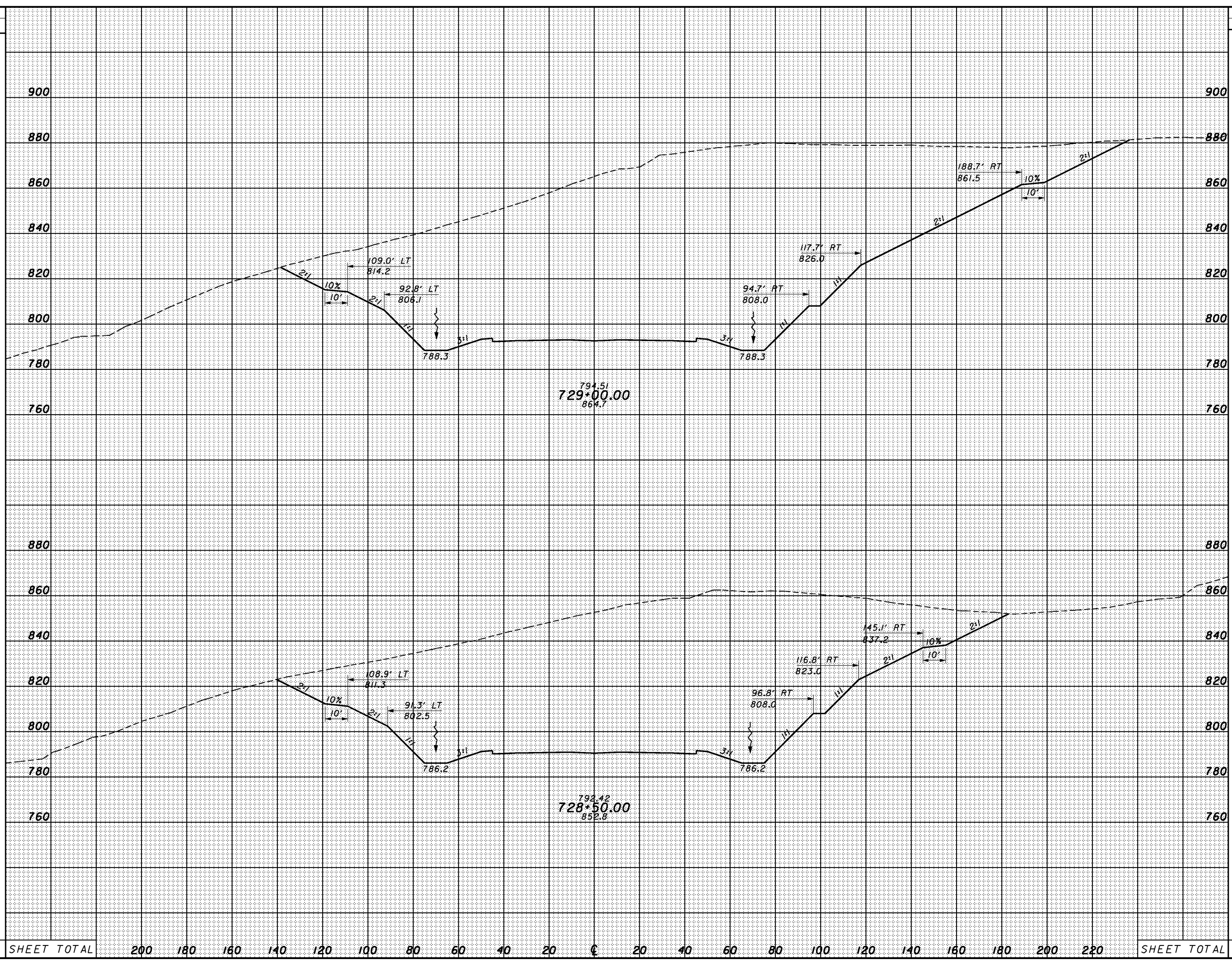
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 728+50.00 TO STA. 729+00.00

SCI-823-10.13

338

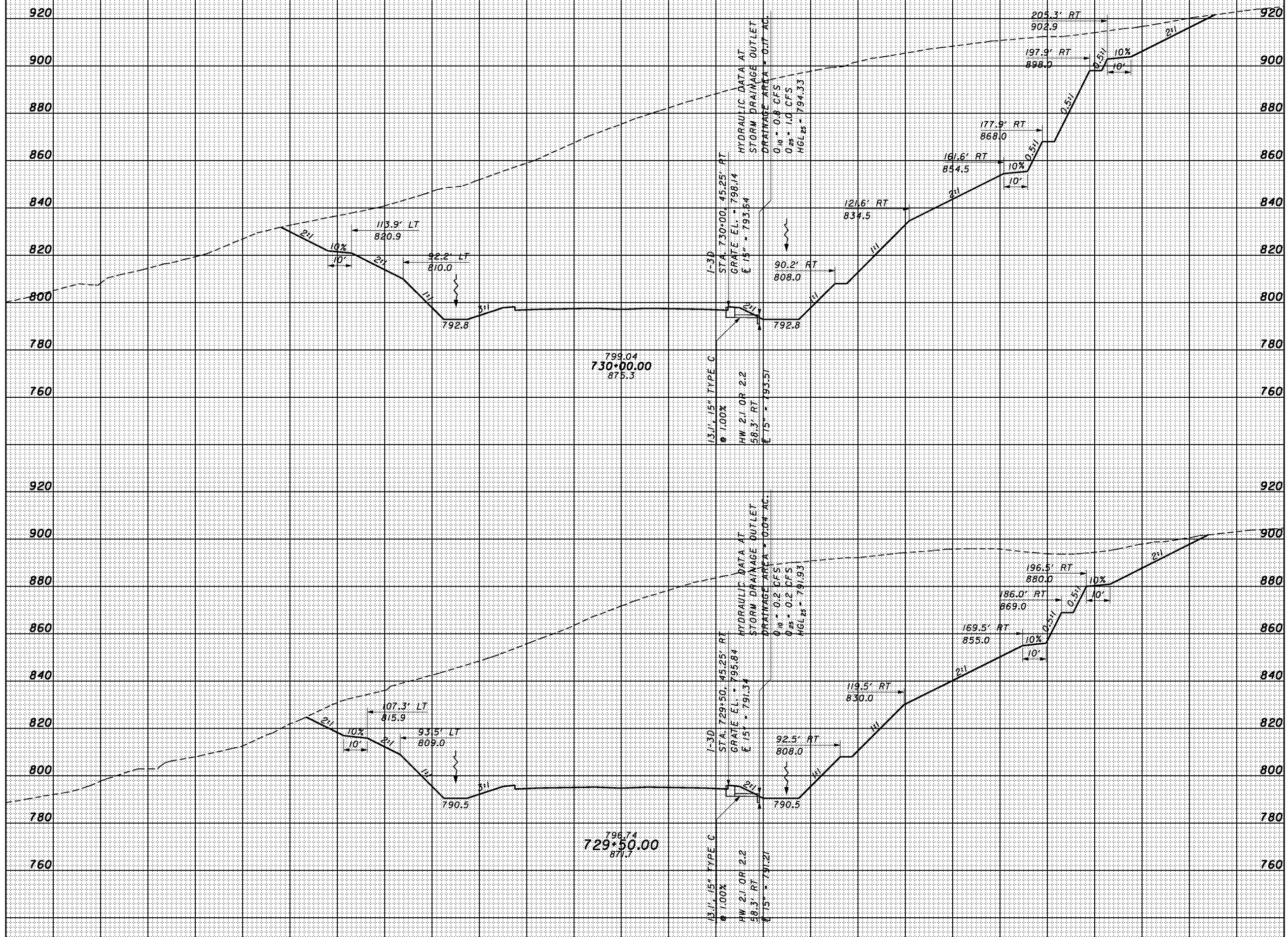


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3/17/09 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_1.dgn

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

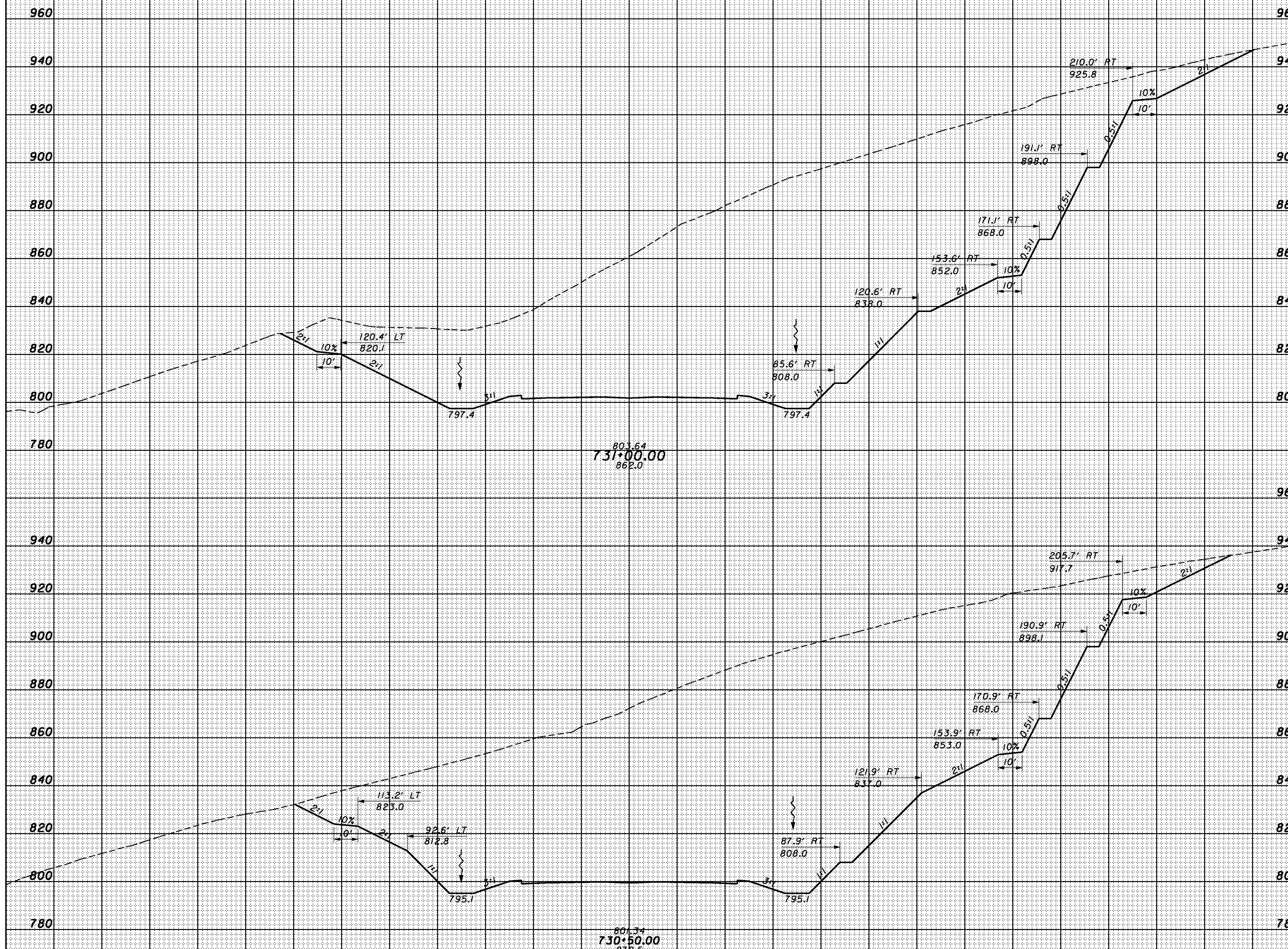
CROSS SECTIONS
SR823 - STA. 729+50.00 TO STA. 730+00.00

SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3/17/50 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_sr823_1.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

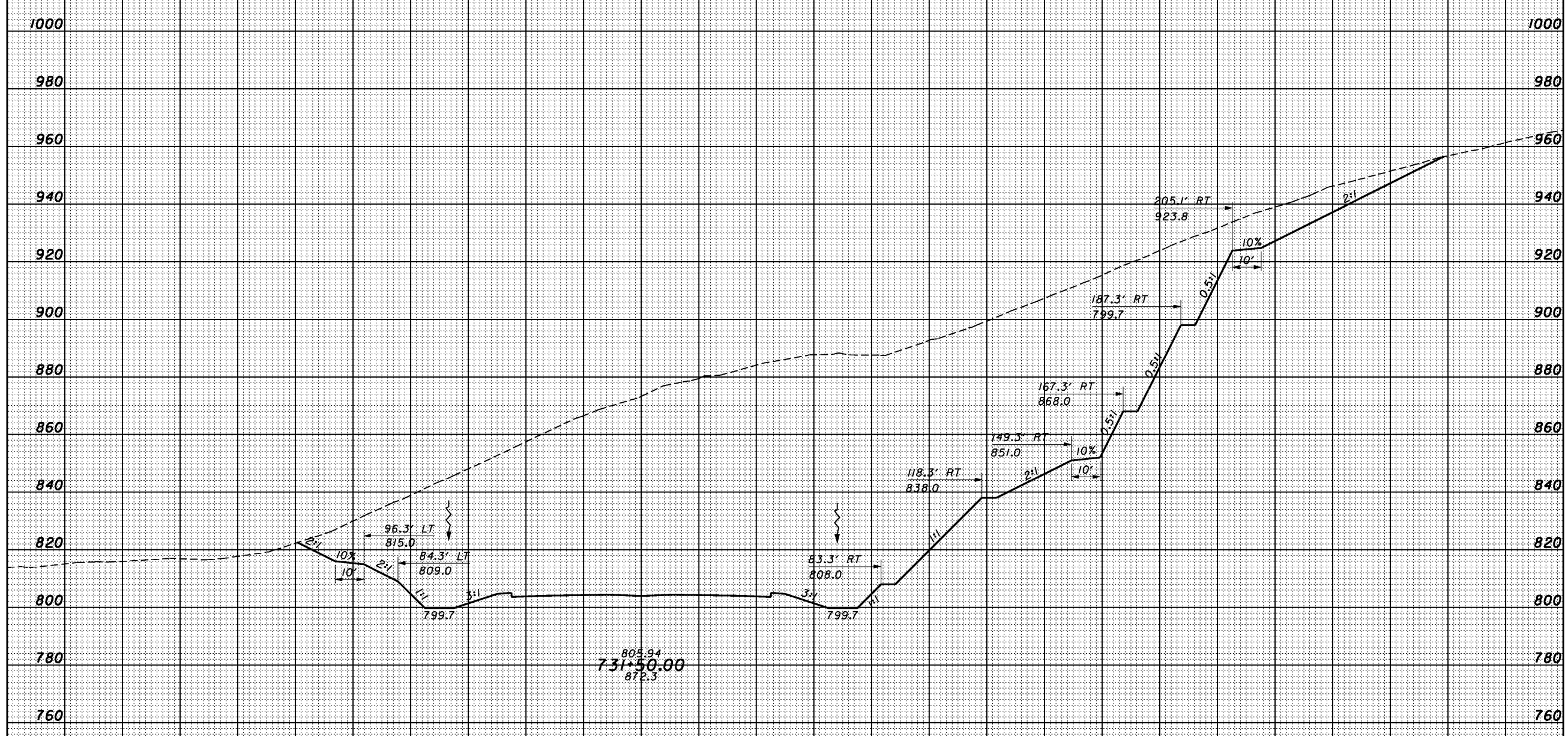
CROSS SECTIONS
SR823 - STA. 730+50.00 TO STA. 731+00.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3/15/2 PM 1/28/2008 g:\co03\0064\road\phase 2\7997\ss_sr823_1.dgn



SHEET TOTAL	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	240	260	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 731+50.00

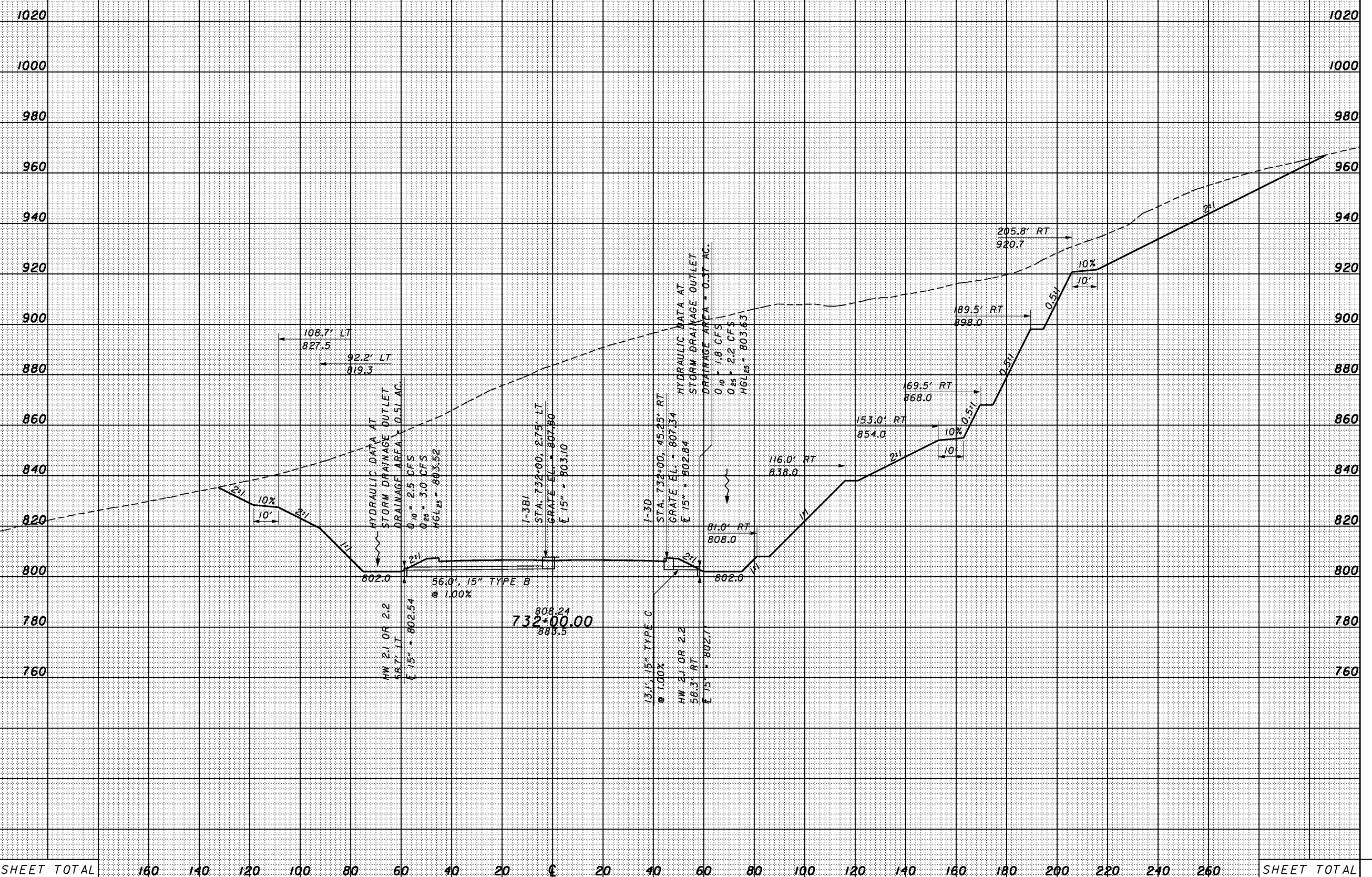
SCI-823-10.13

3/17/53 PM 1/28/2008 g:\co03\0064\road\phase 2\79917xs_sr823_1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED



CROSS SECTIONS
SR823 - STA. 732+00.00

SCI-823-10.13

3/17/56 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 733+00.00

SCI-823-10.13

344



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3/15/08 1/28/2008 g:\co03\0064\road\phase 2\7997\ss_sr823_1.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 733+50.00

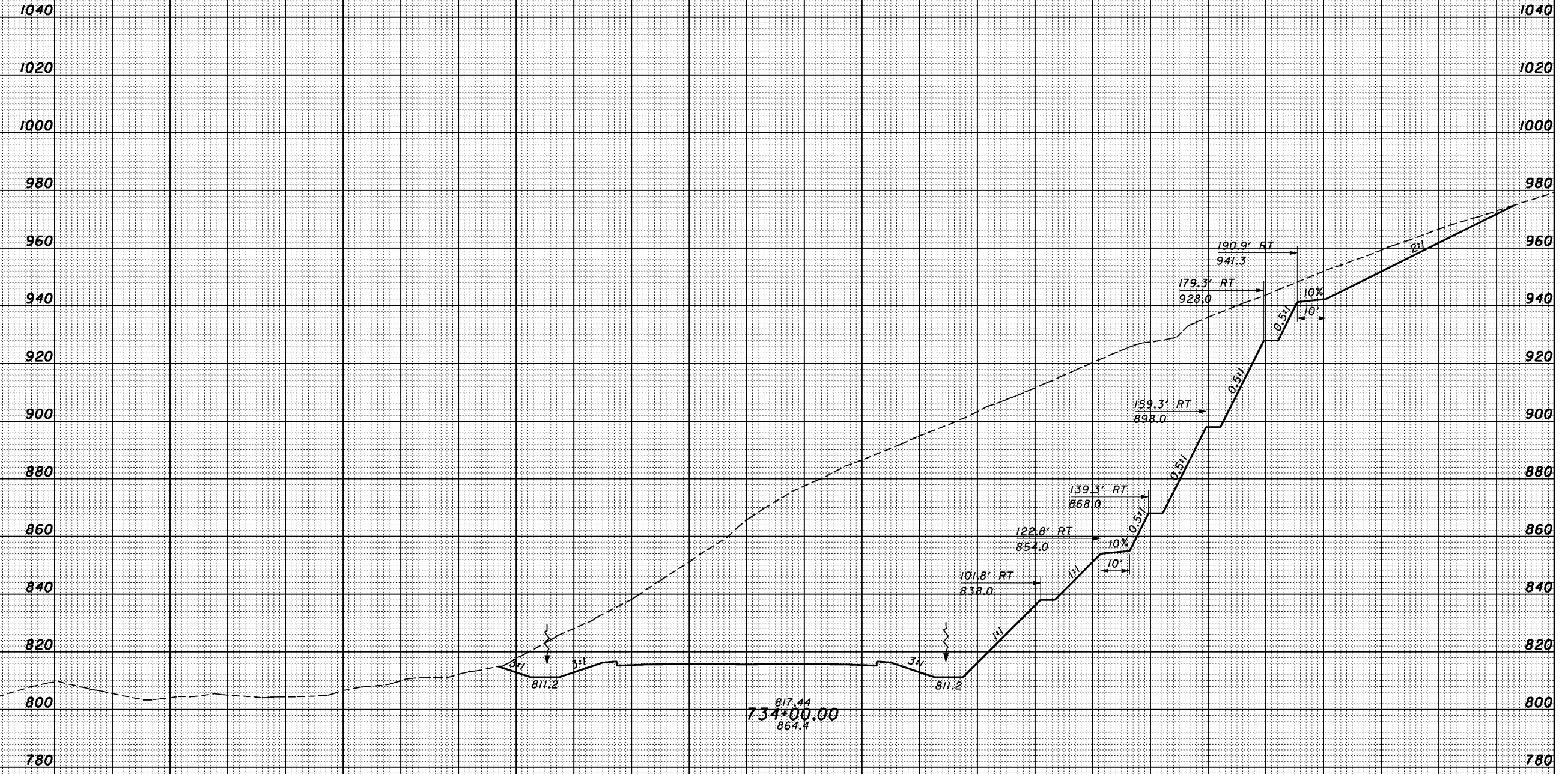
SCI-823-10.13

3:17:58 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 734+00.00

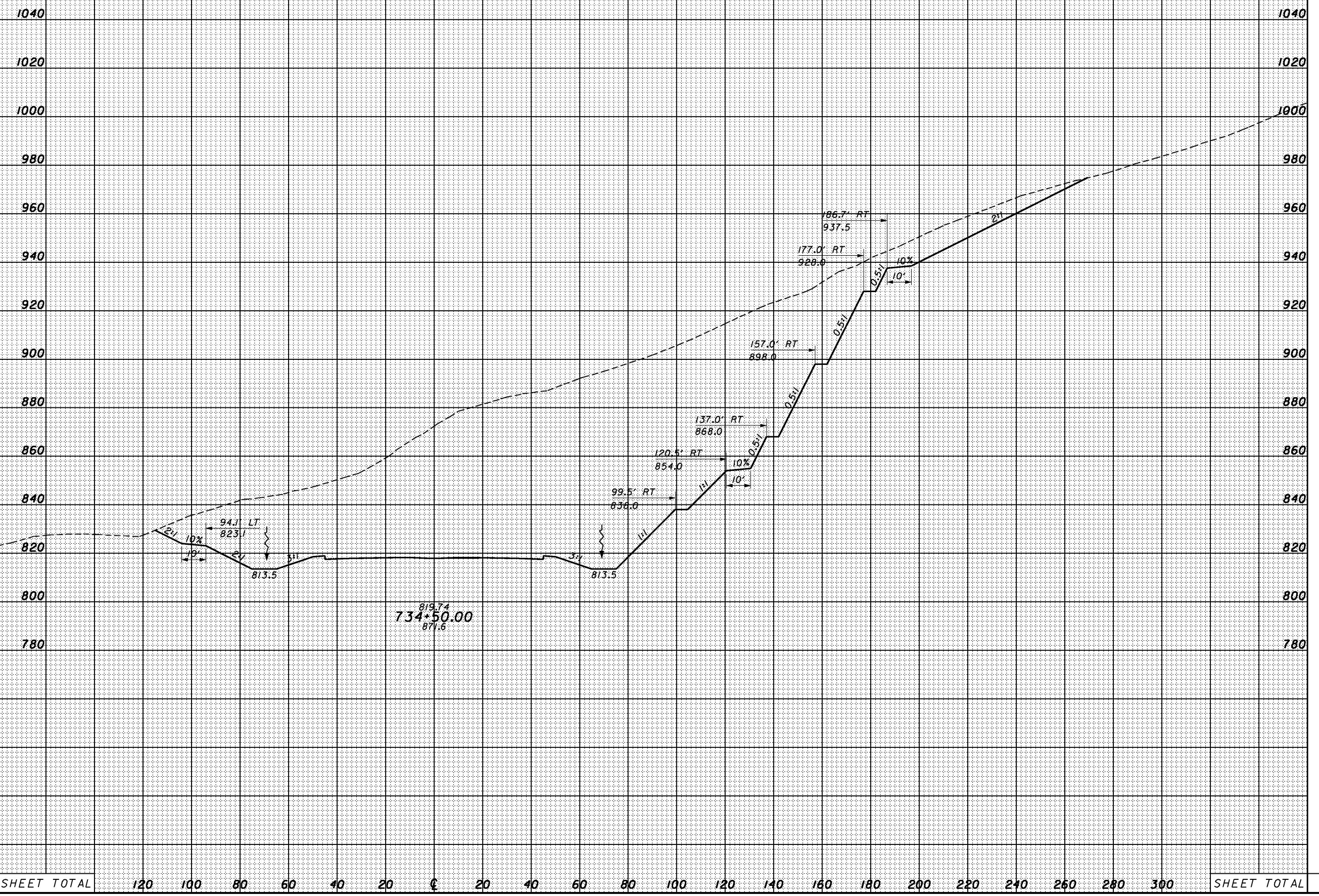
SCI-823-10.13

3/17/59 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 734+50.00

SCI-823-10.13

347

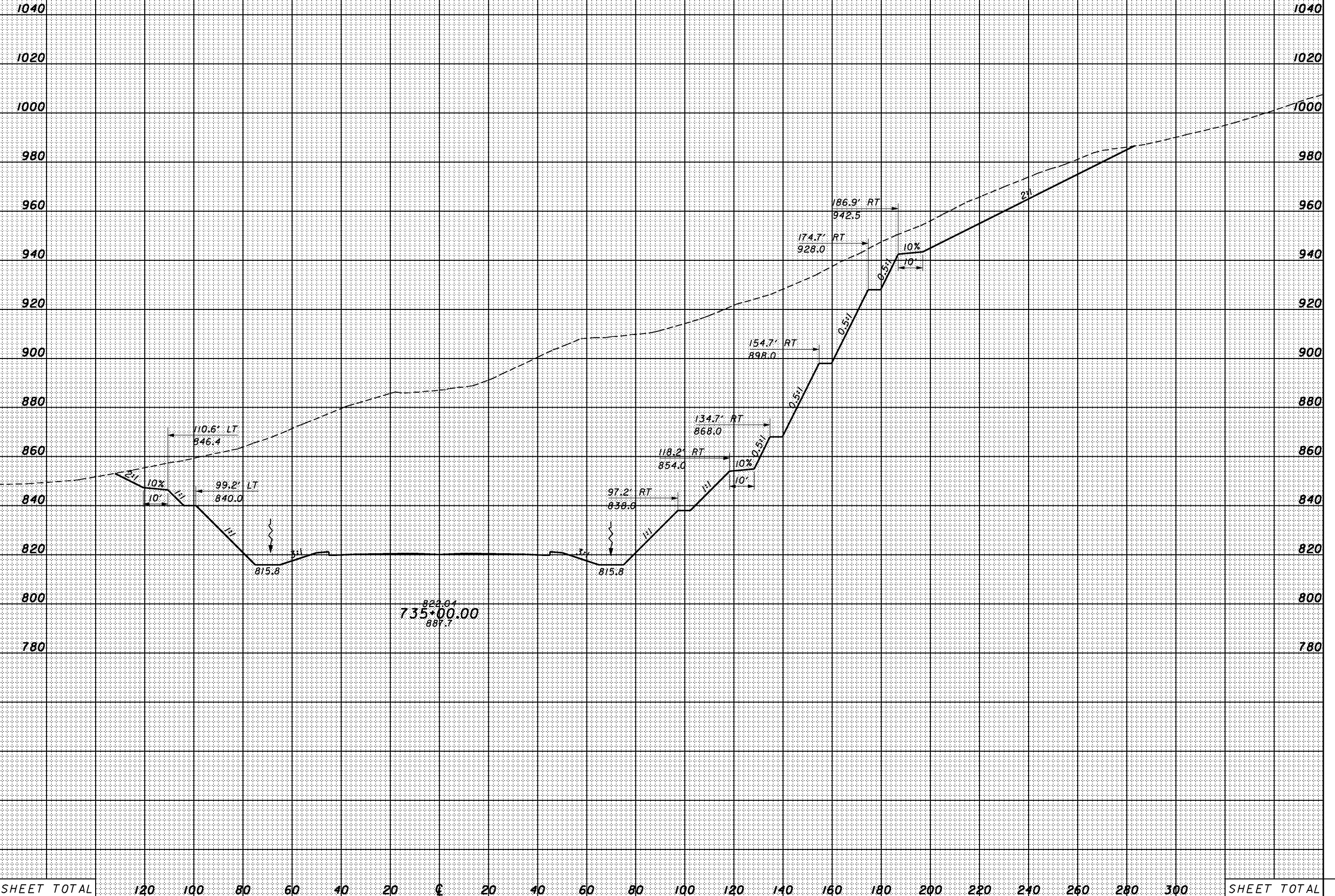
SHEET TOTAL	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	SHEET TOTAL
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3:18:00 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 735+00.00

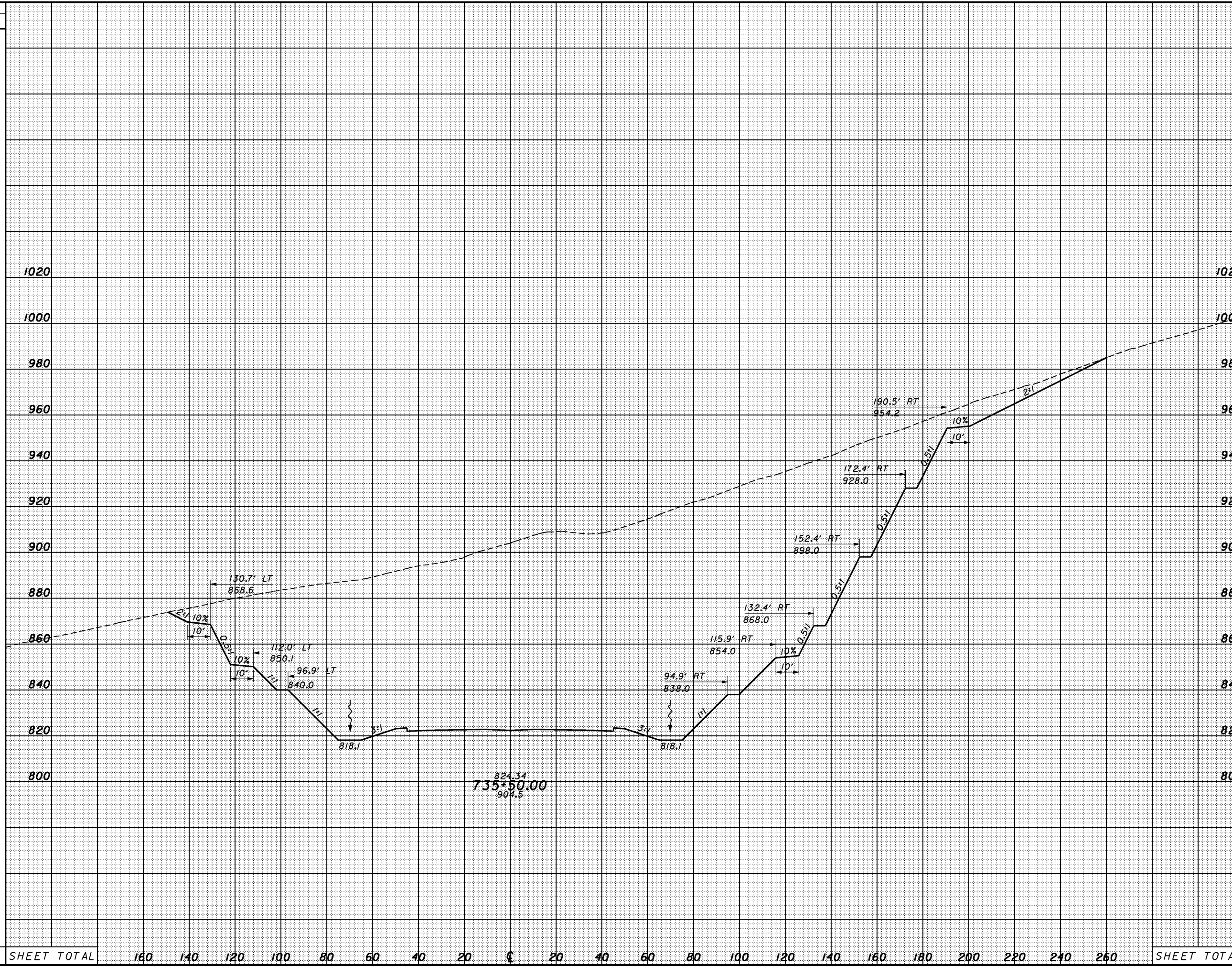
SCI-823-10.13

SHEET TOTAL	120	100	80	60	40	20	±	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	SHEET TOTAL
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SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:18:01 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_sr823_1.dgn



SHEET TOTAL	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	240	260	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 735+50.00

SCI-823-10.13

3:18:02 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_1.dgn

SEEDING	
END WIDTH	SO. YDS.

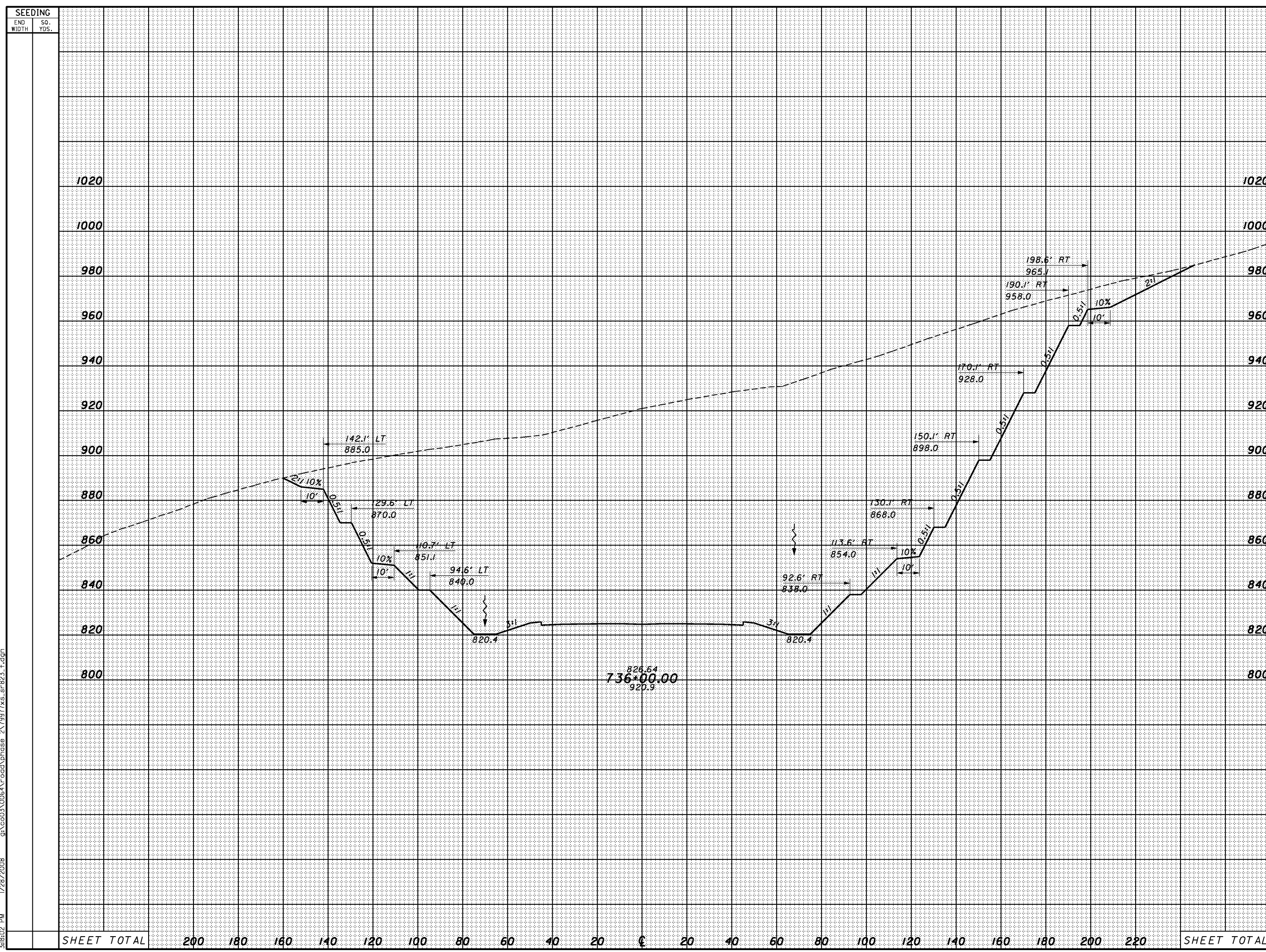
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 736+00.00

SCI-823-10.13

350

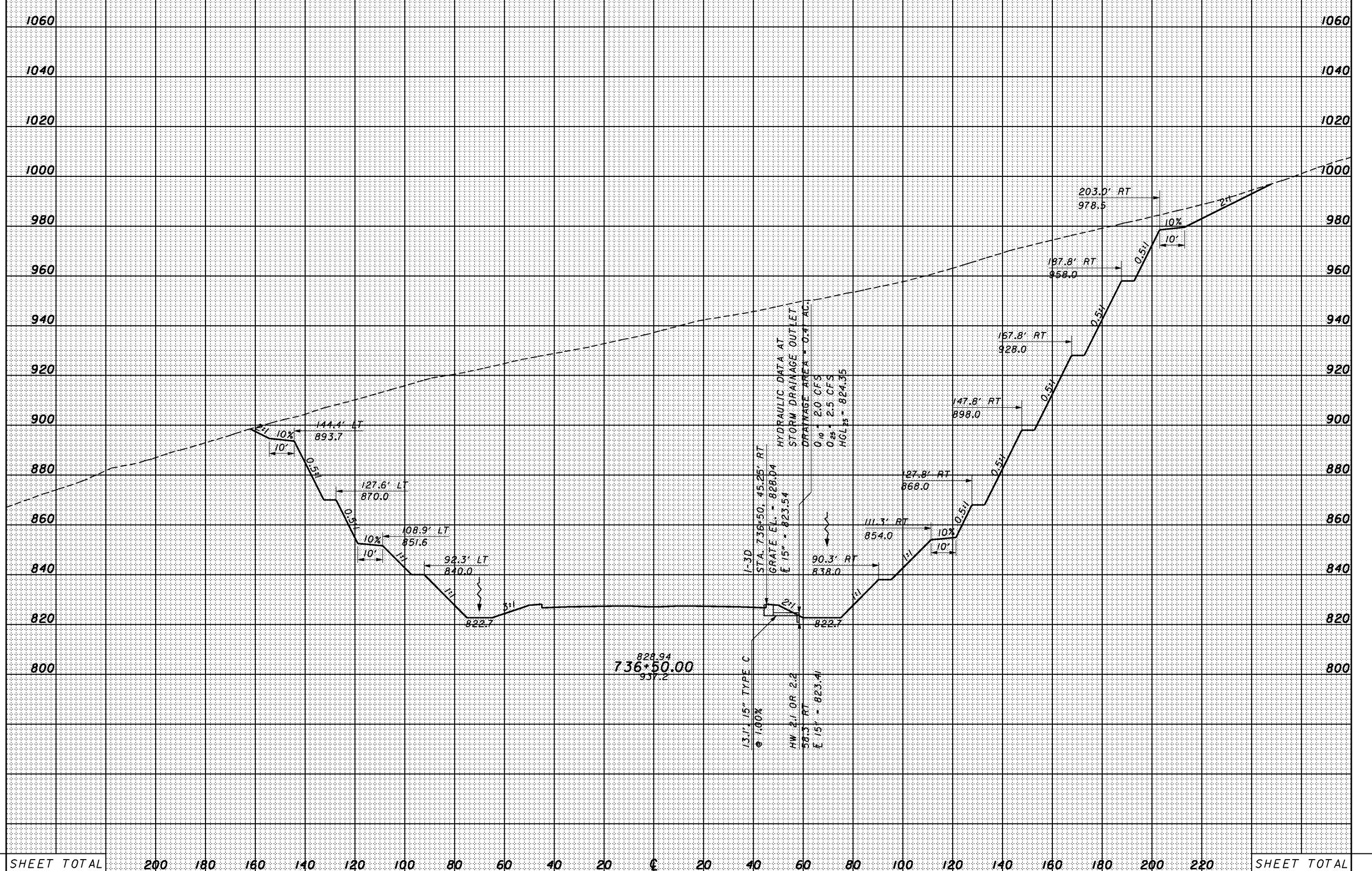


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3/18/03 PM 1/28/2008 g:\co03\0064\road\phase 2\7997\ss_sr823_1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



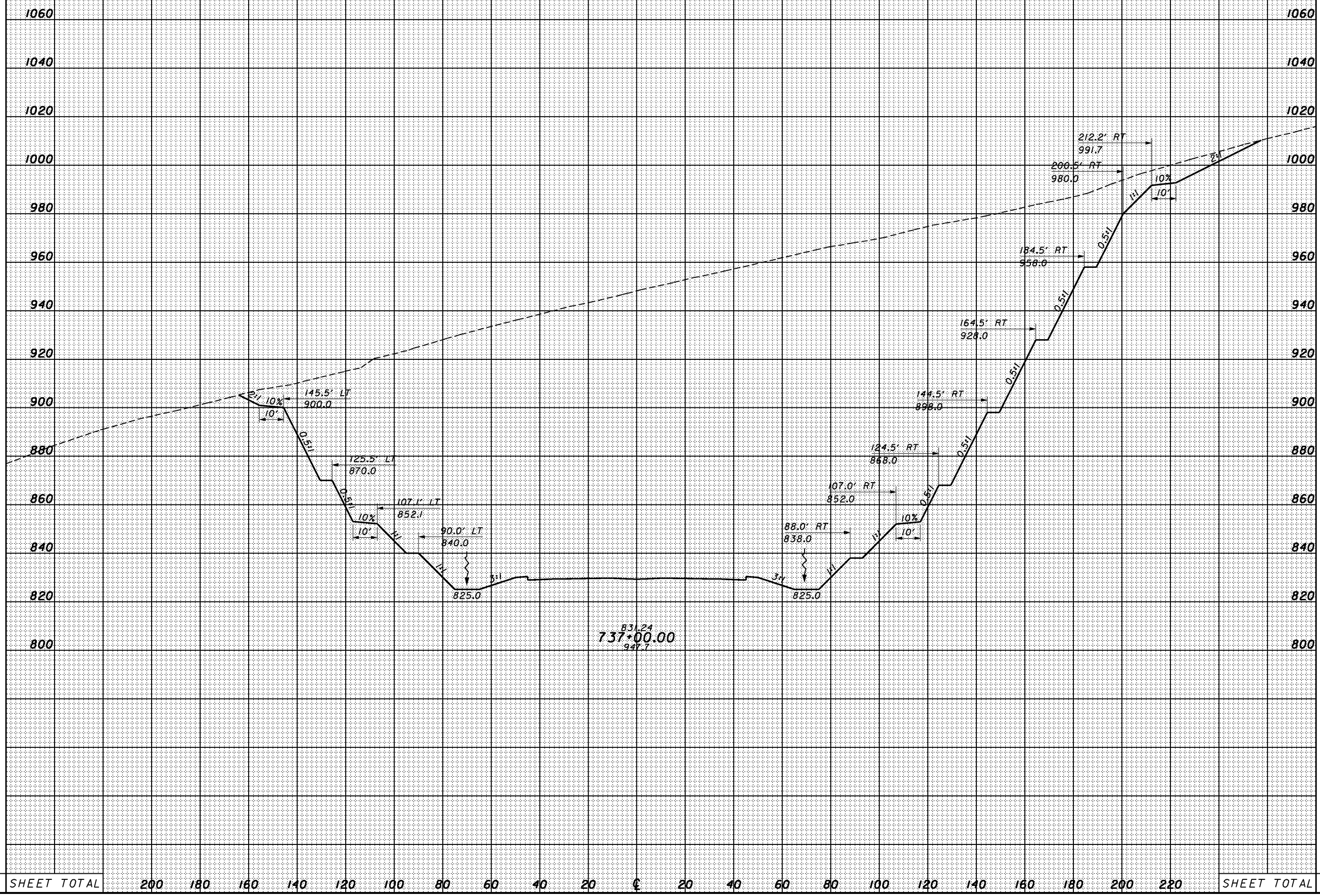
CROSS SECTIONS
 SR823 - STA. 736+50.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:04 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_1.dgn



831.24
737+00.00
947.7

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 737+00.00

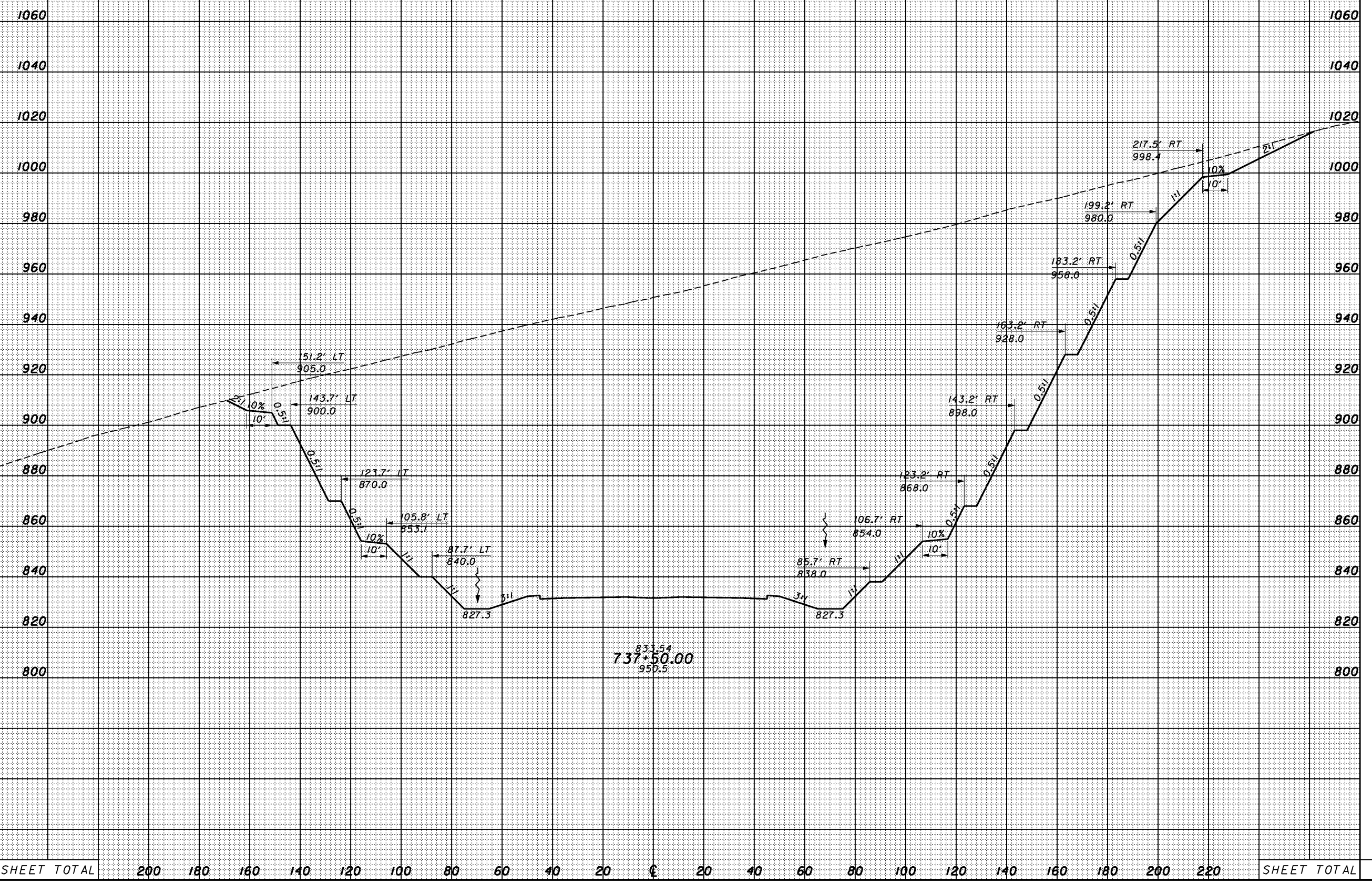
SCI-823-10.13

3:18:05 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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SHEET TOTAL

200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220

SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 737+50.00

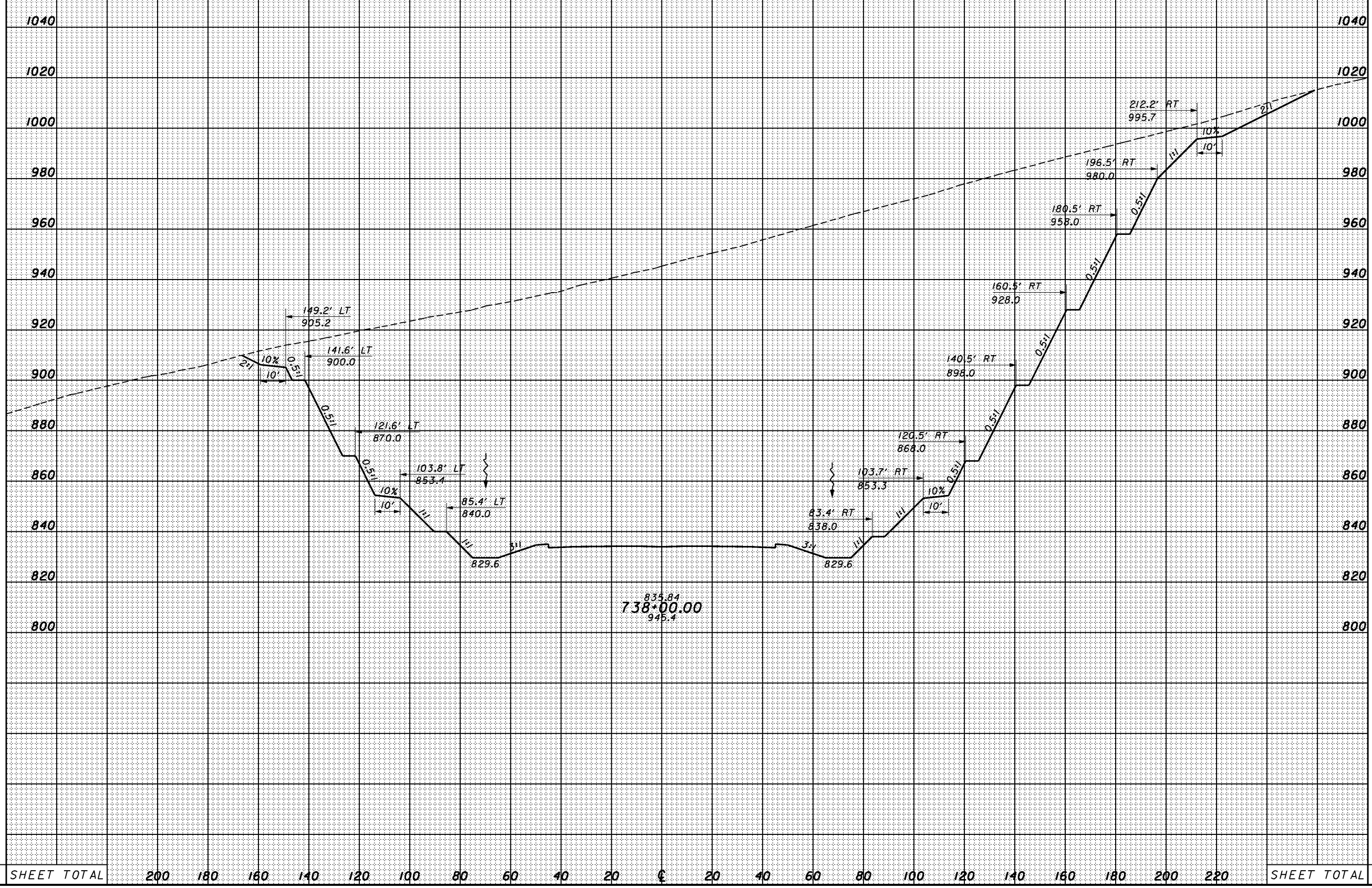
SCI-823-10.13

353

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3/18/06 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_1.dgn



835.84
738+00.00
945.4

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 738+00.00

SCI-823-10.13

354

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:18:07 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.f.dgn



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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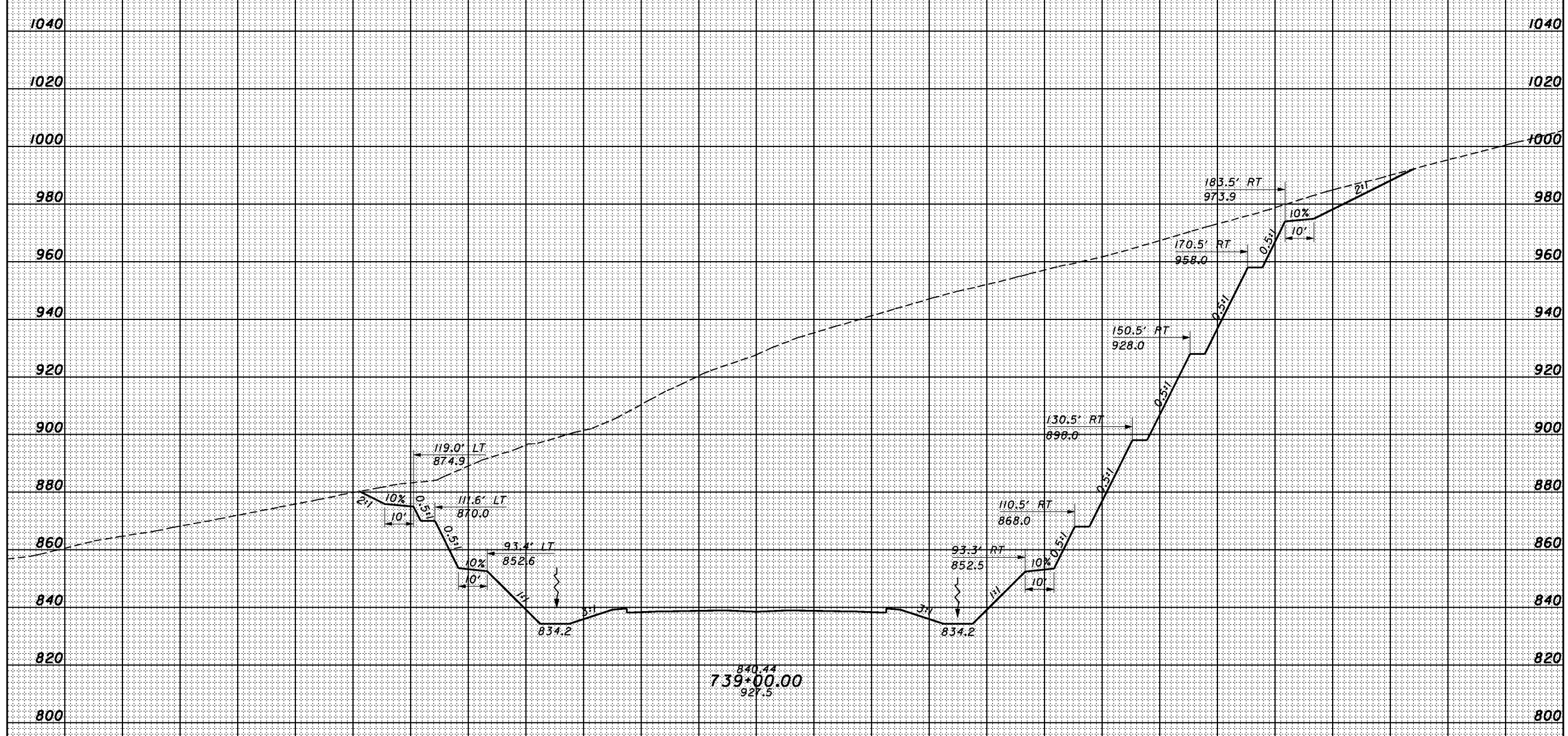
CROSS SECTIONS
SR823 - STA. 738+50.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:18:08 PM 1/28/2008 g:\co03\0064\road\phase 2\79917xs_sr823_1.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 739+00.00

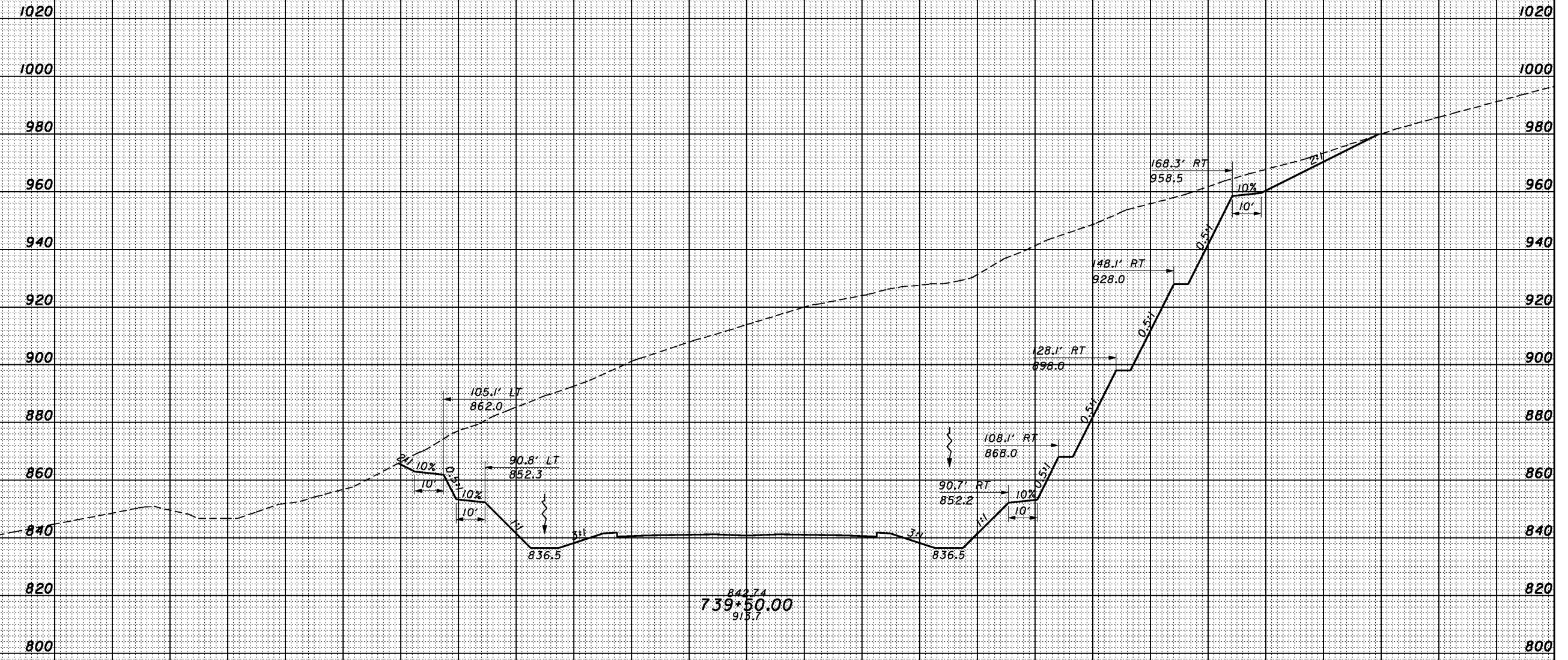
SCI-823-10.13

356

3:18:09 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_1.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 739+50.00

SCI-823-10.13

357

3:18:40 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 740+50.00

SCI-823-10.13

359

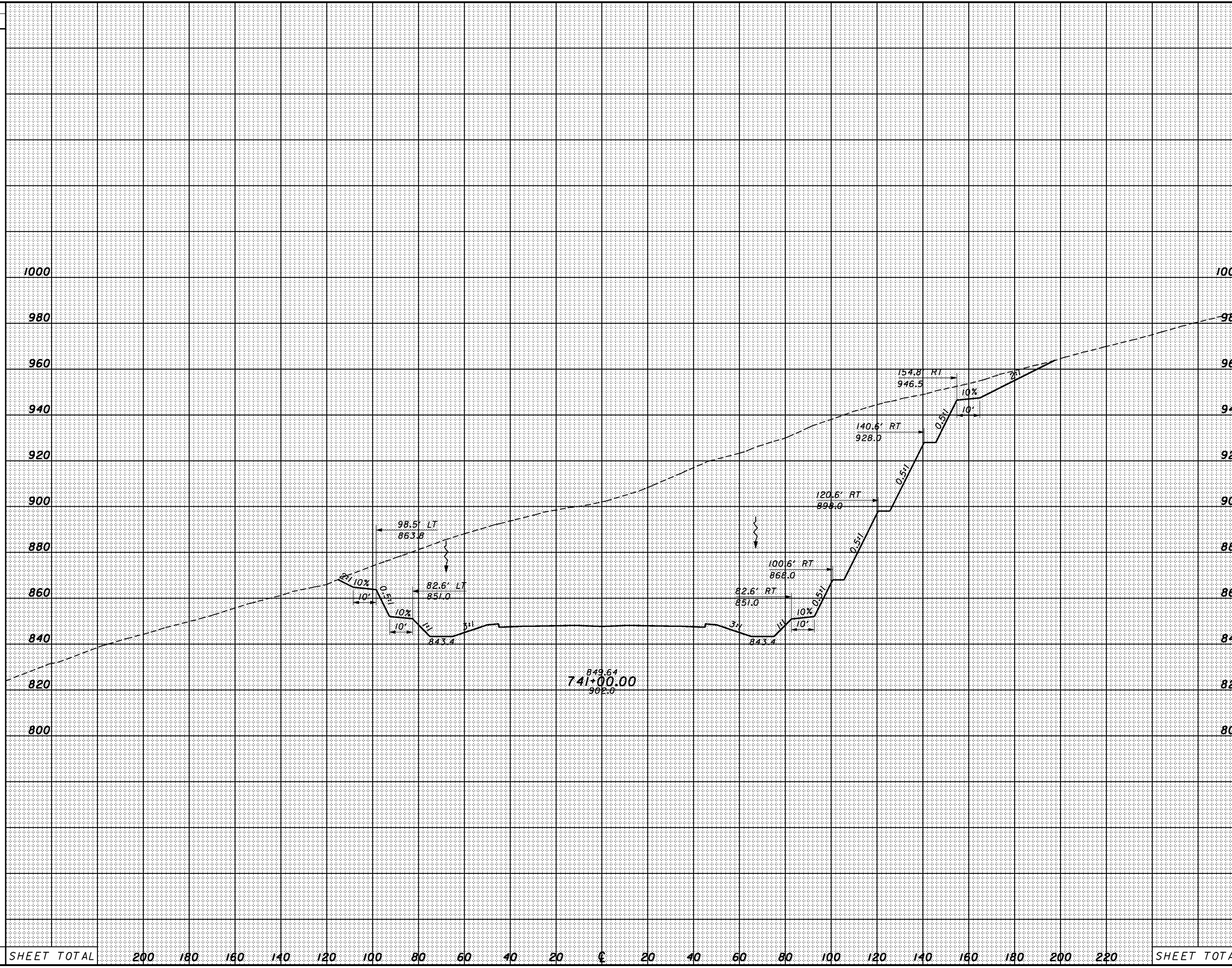


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:48:11 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_1.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 741+00.00

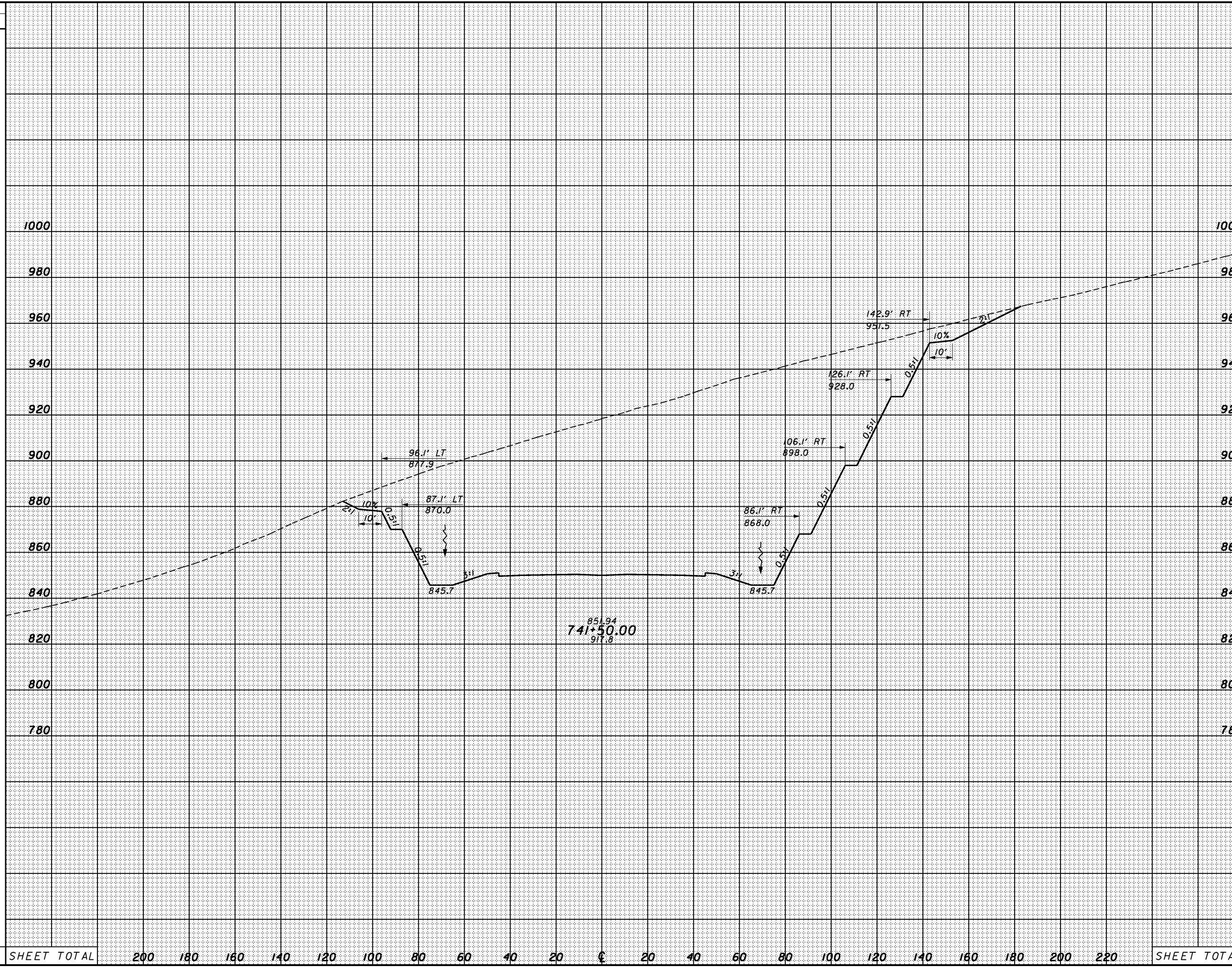
SCI-823-10.13

360

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:18:12 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823_1.dgn



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 741+50.00

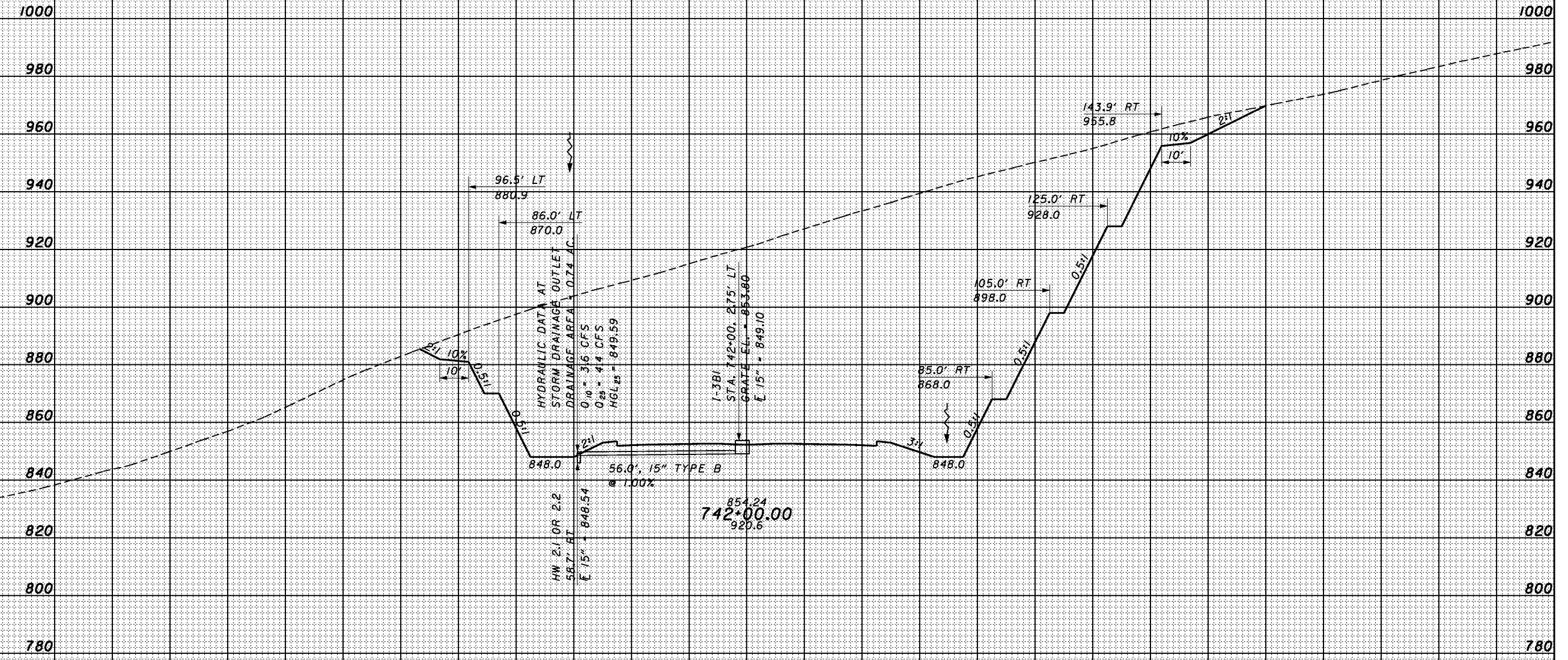
SCI-823-10.13

3:48:13 PM 1/28/2008 g:\co03\0064\road\phase 2\79917xs_sr823_1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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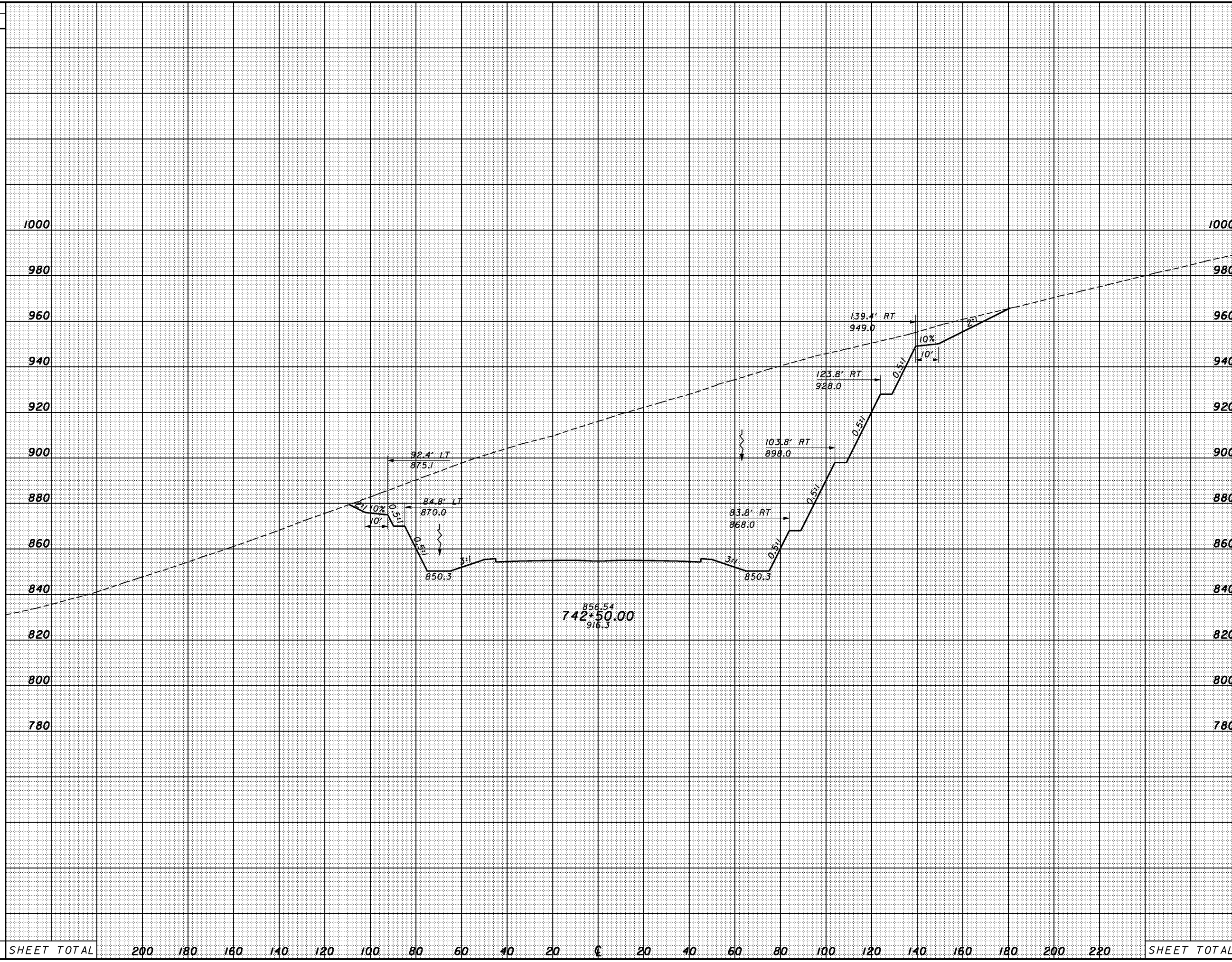
CROSS SECTIONS
SR823 - STA. 742+00.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:08:14 PM 1/28/2008 g:\co03\0064\road\phase 2\7997\xs_sr823_1.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 742+50.00

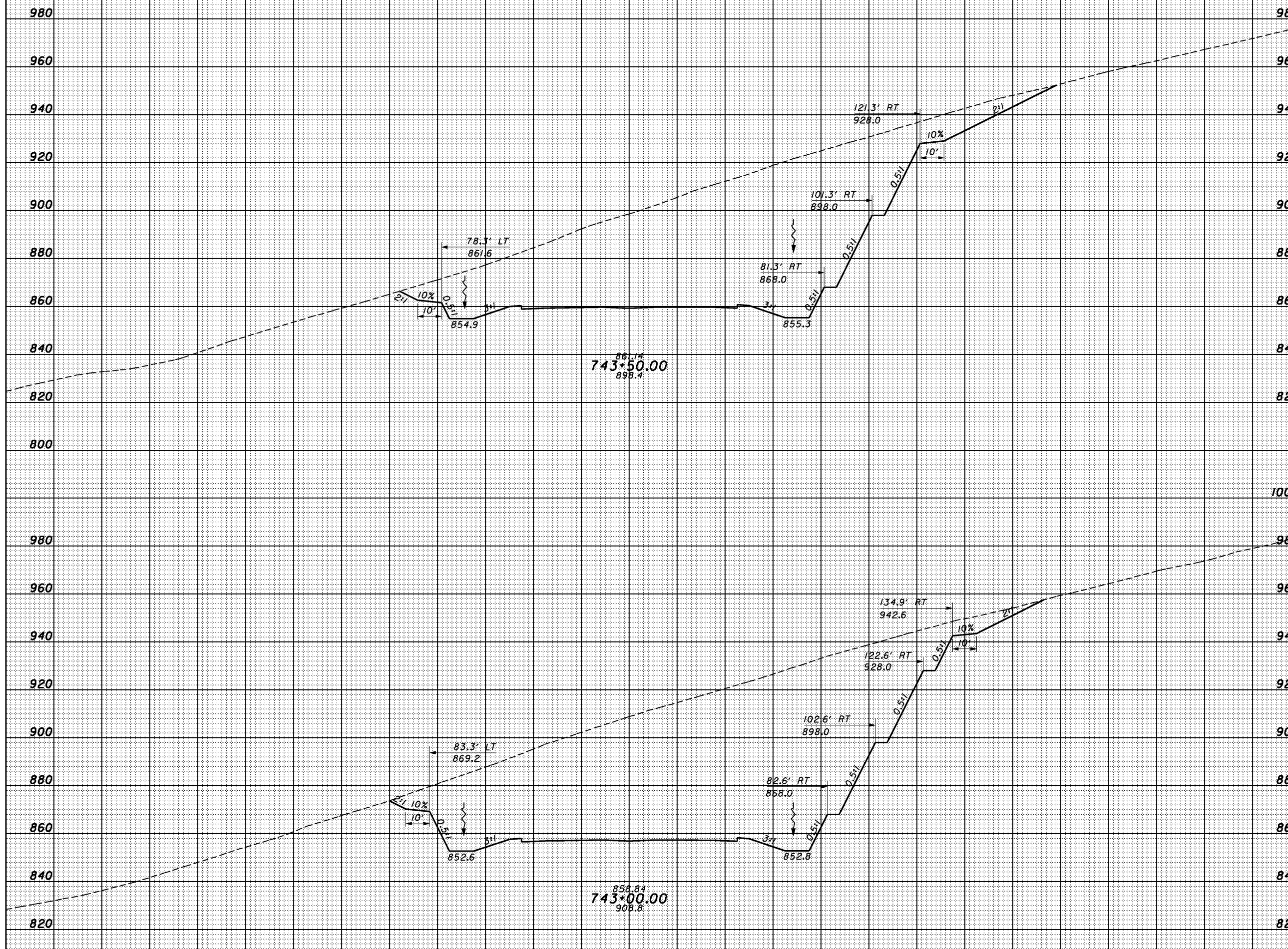
SCI-823-10.13

363

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

1/28/2008 3:05 PM g:\c03\0064\road\phase 2\7997xs_sr823_1.dgn



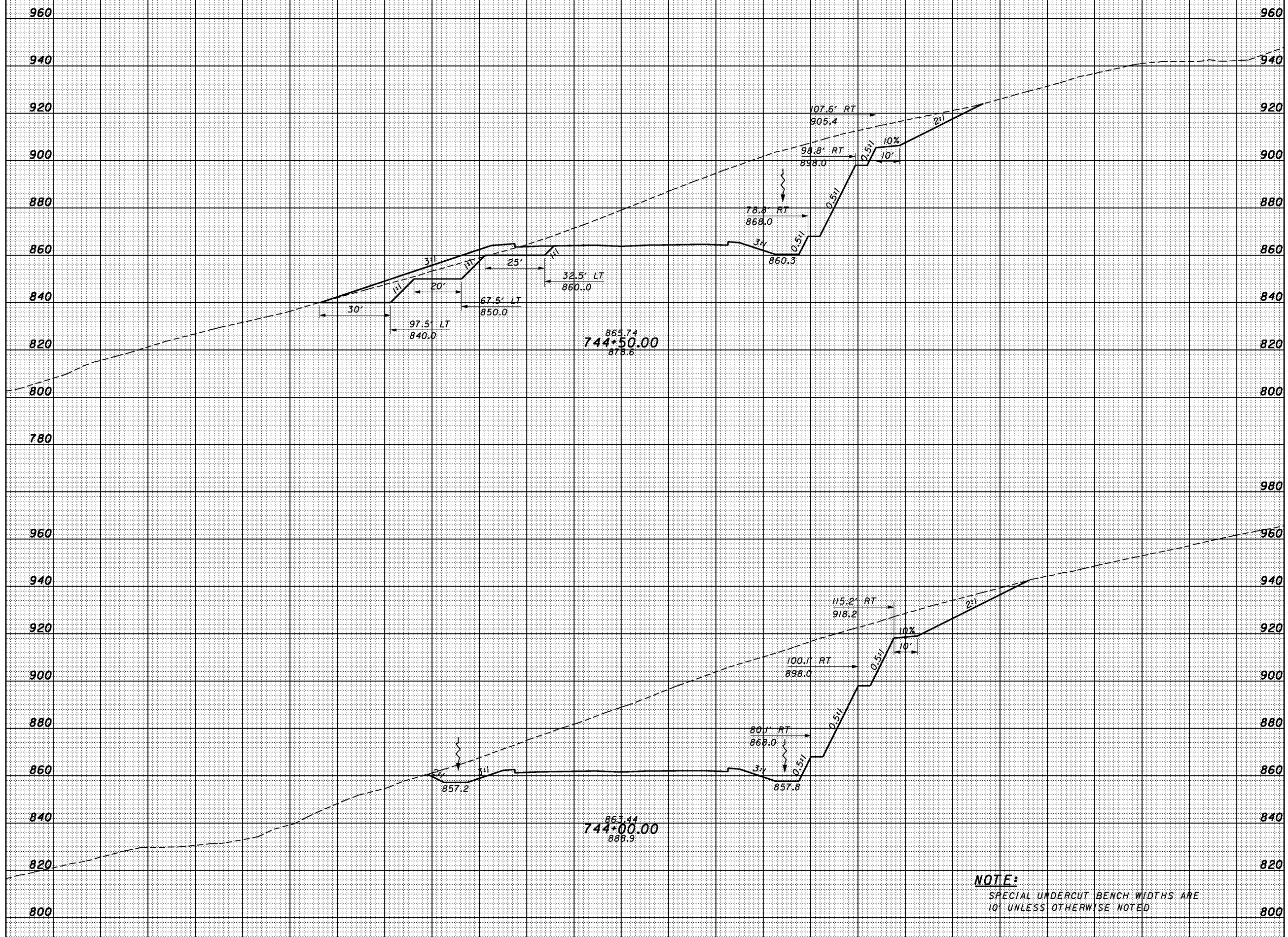
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
 SR823 - STA. 743+00.00 TO STA. 743+50.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 744+00.00 TO STA. 744+50.00

SCI-823-10.13

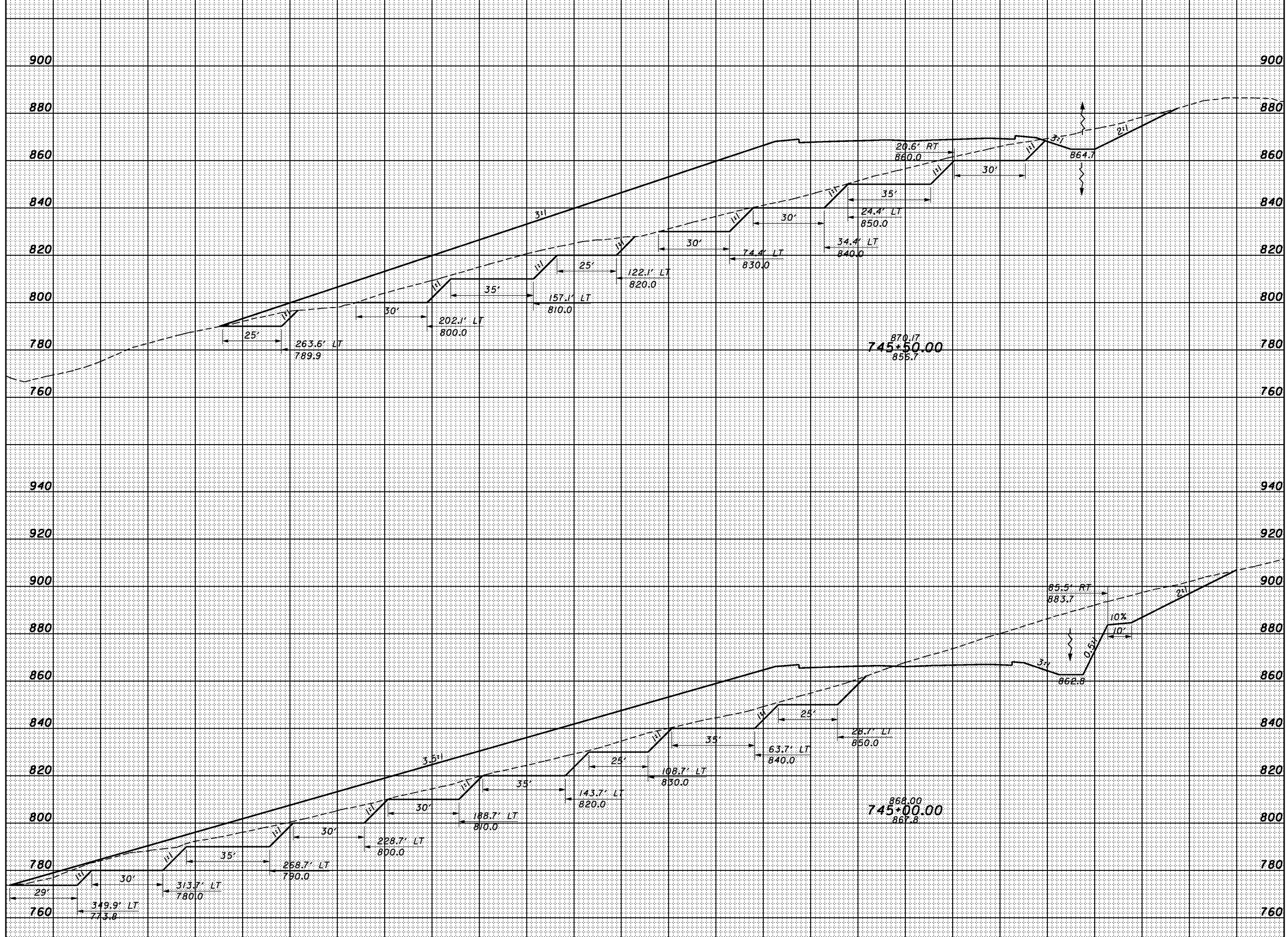
1/28/2008 3:08:16 PM g:\co03\0064\road\phase 2\79977xs_sr823_1.dgn

NOTE:
SPECIAL UNDERCUT BENCH WIDTHS ARE
10' UNLESS OTHERWISE NOTED

1/28/2008 3:48:18 PM g:\c03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



SHEET TOTAL	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	SHEET TOTAL
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CROSS SECTIONS
SR823 - STA. 745+00.00 TO STA. 745+50.00

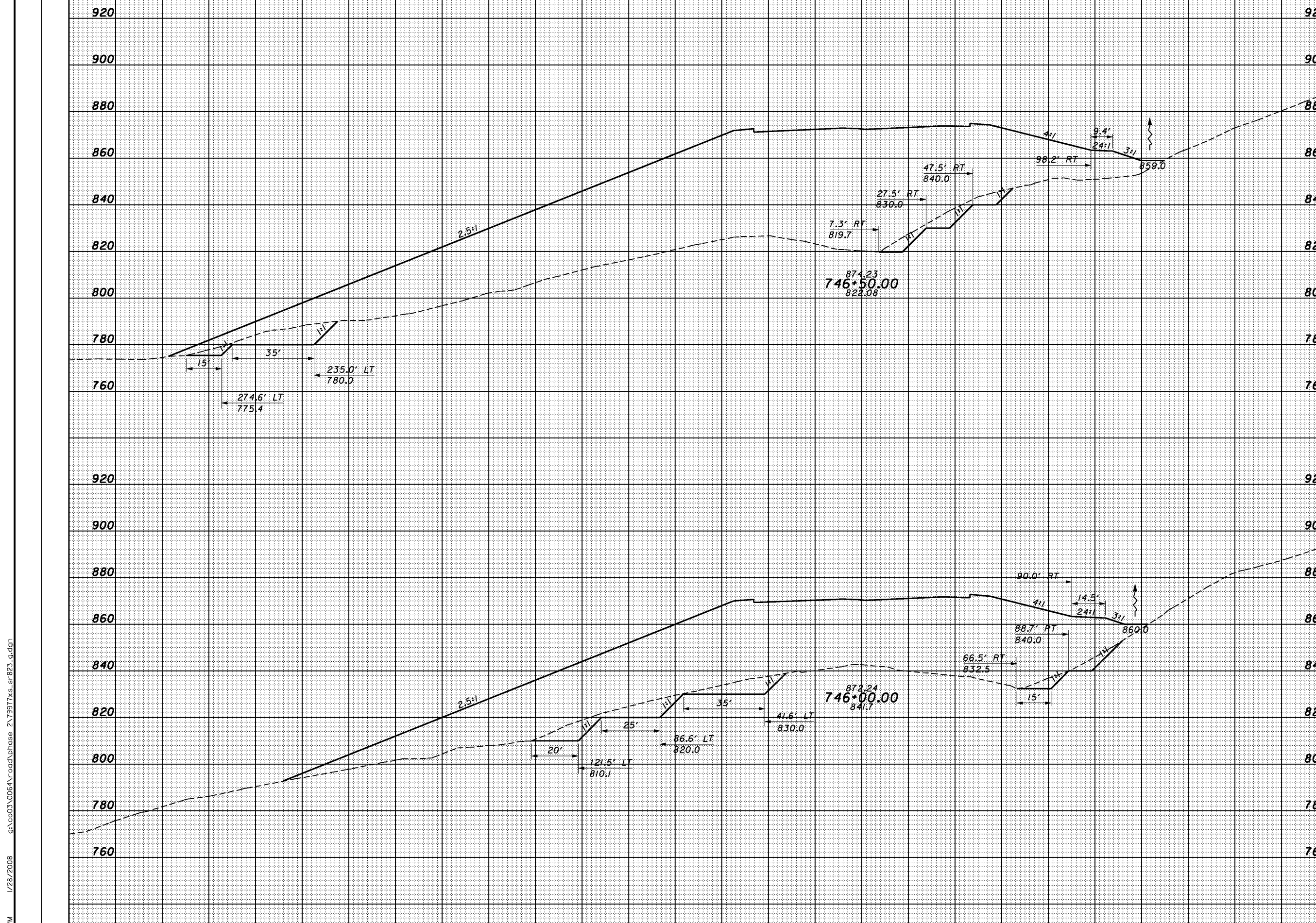
SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

920
900
880
860
840
820
800
780
760

920
900
880
860
840
820
800
780
760



CROSS SECTIONS
SR823 - STA. 746+00.00 TO STA. 746+50.00

SCI-823-10.13

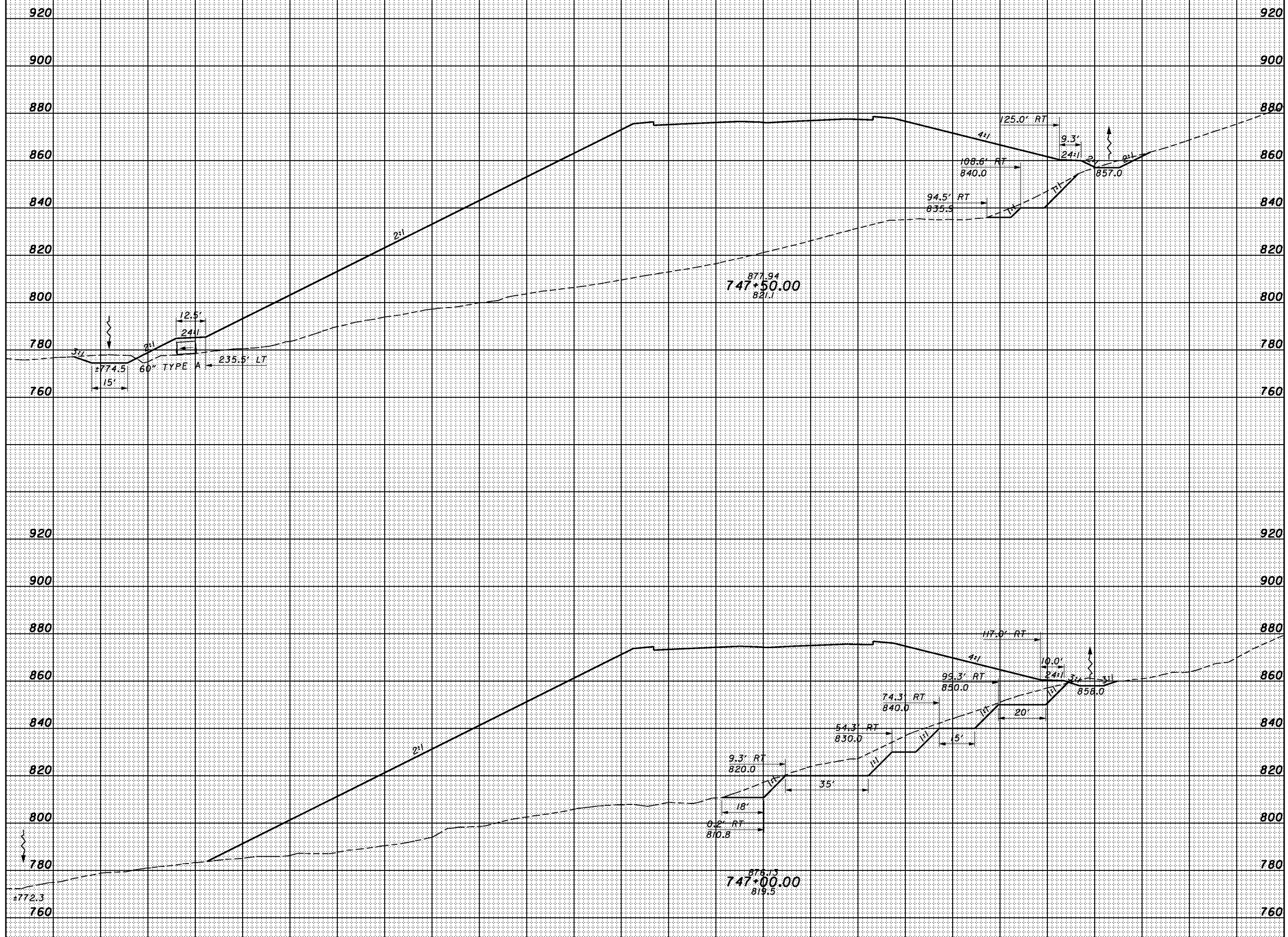
367

1/28/2008 3:18:18 PM g:\c03\0064\road\phase 2\79977xs_sr823.dgn

SHEET TOTAL 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 SHEET TOTAL

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



SEEDING	END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	CALCULATED	CHECKED

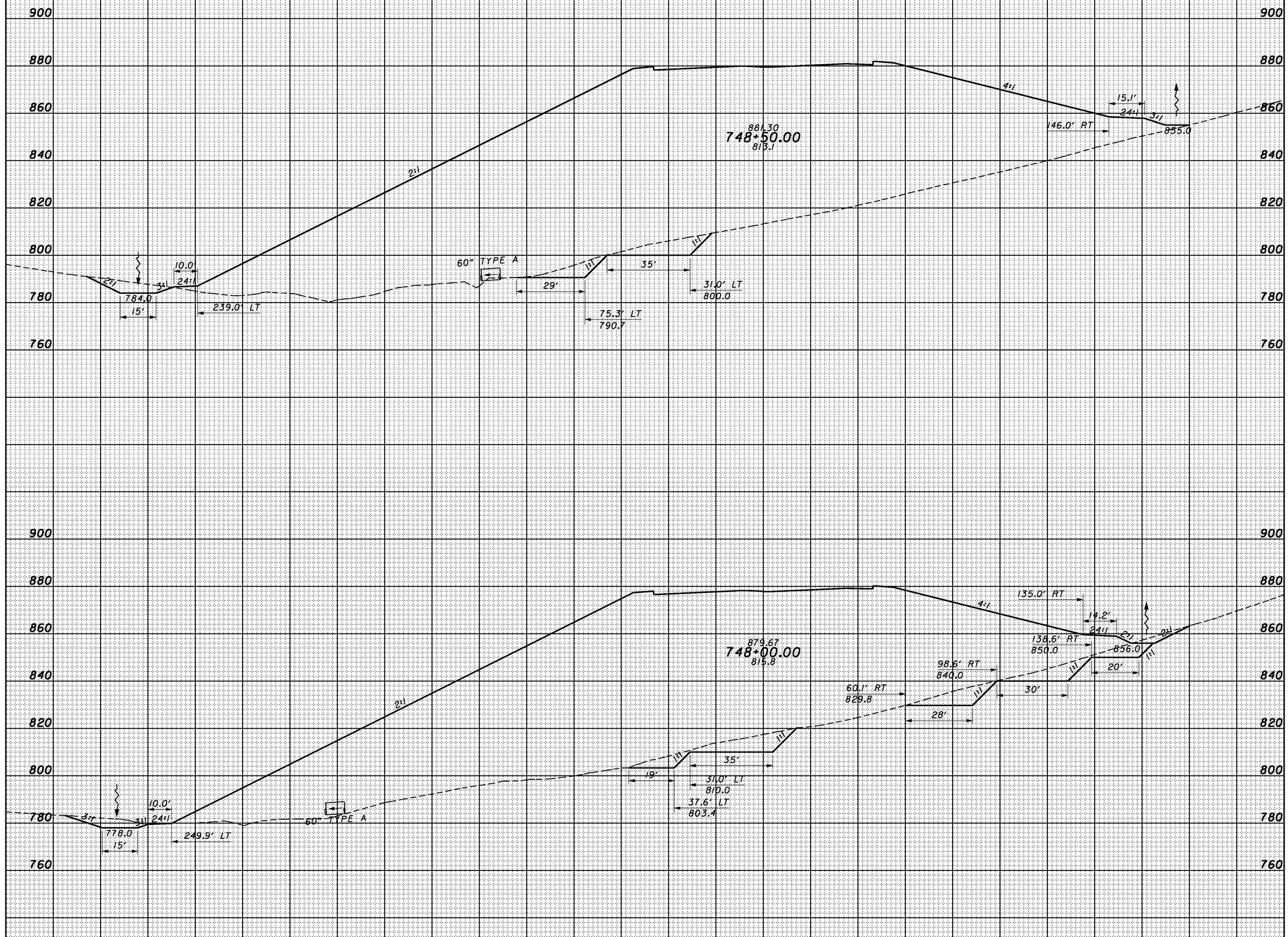
CROSS SECTIONS
SR823 - STA. 747+00.00 TO STA. 747+50.00

SCI-823-10.13

3/18/20 PM 1/28/2008 g:\c03\0064\road\phase 2\7997\ss_sr823.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



SHEET TOTAL 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 SHEET TOTAL

SR823 - STA. 748+00.00 TO STA. 748+50.00

SCI-823-10.13

1/28/2008 3:48:21 PM g:\c03\0064\road\phase 2\79977xs_sr823.dgn

3/18/22 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

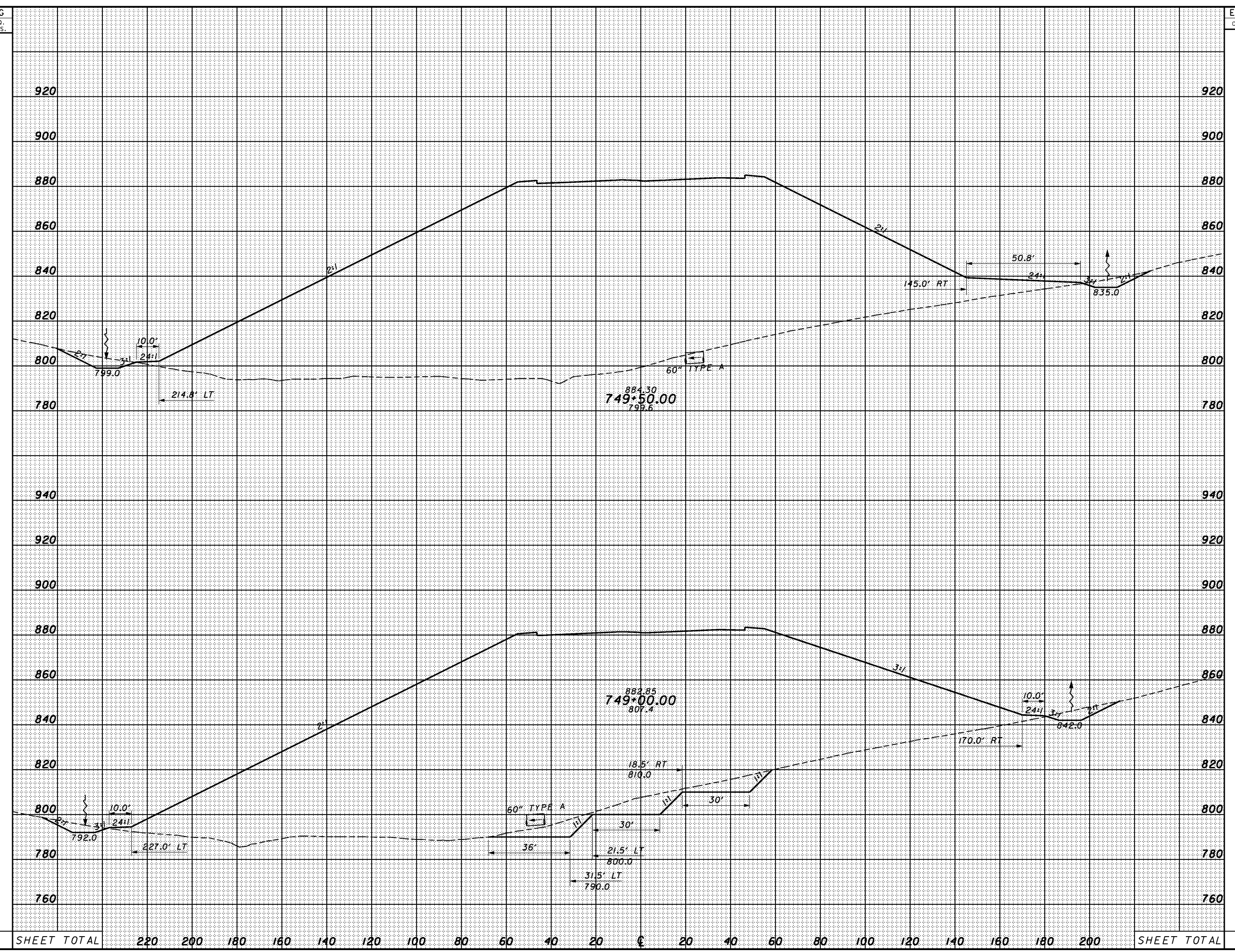
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED

CROSS SECTIONS
SR823 - STA. 749+00.00 TO STA. 749+50.00

SCI-823-10.13

370

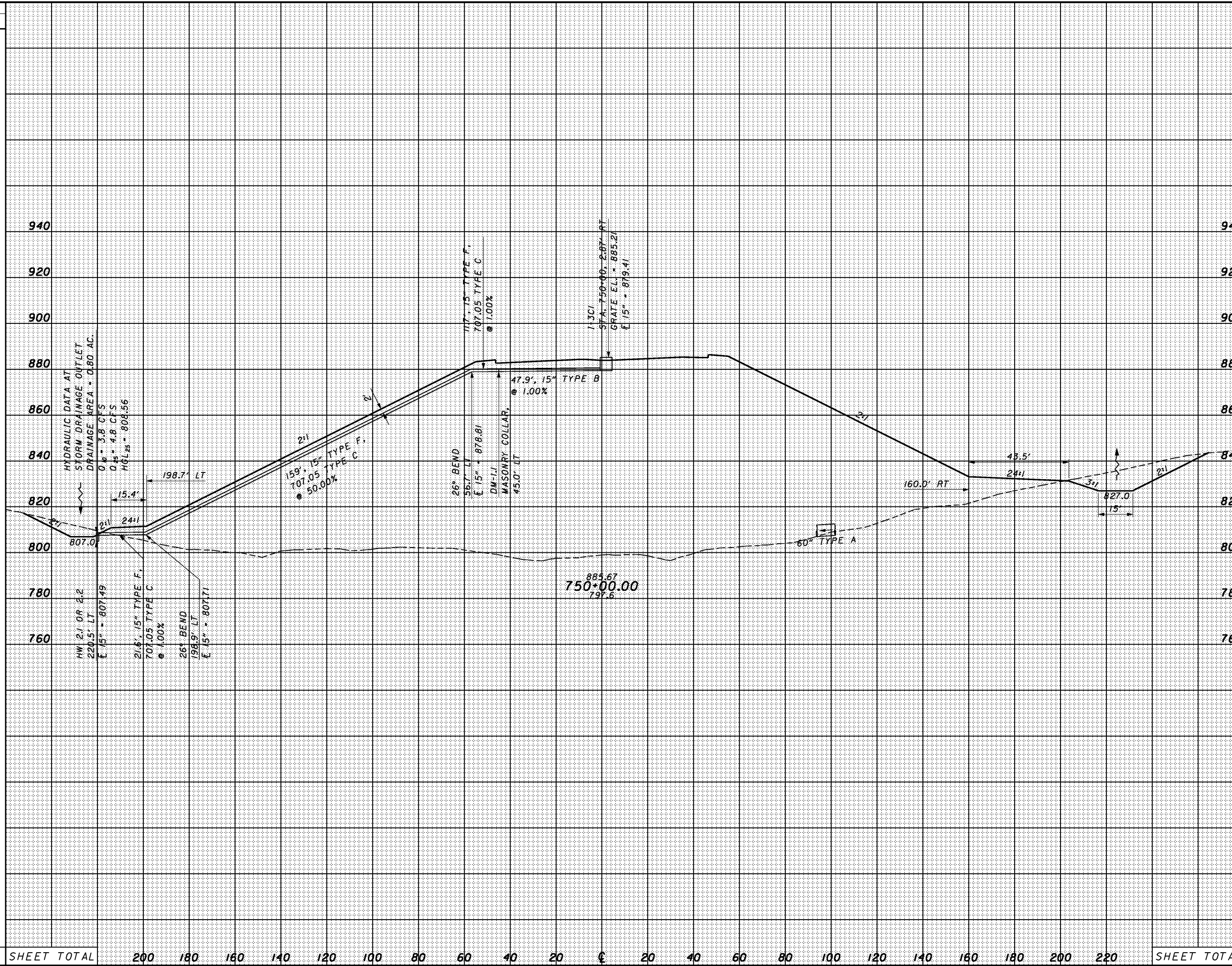


SHEET TOTAL	220	200	180	160	140	120	100	80	60	40	20	CL	20	40	60	80	100	120	140	160	180	200	SHEET TOTAL
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3:48:23 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

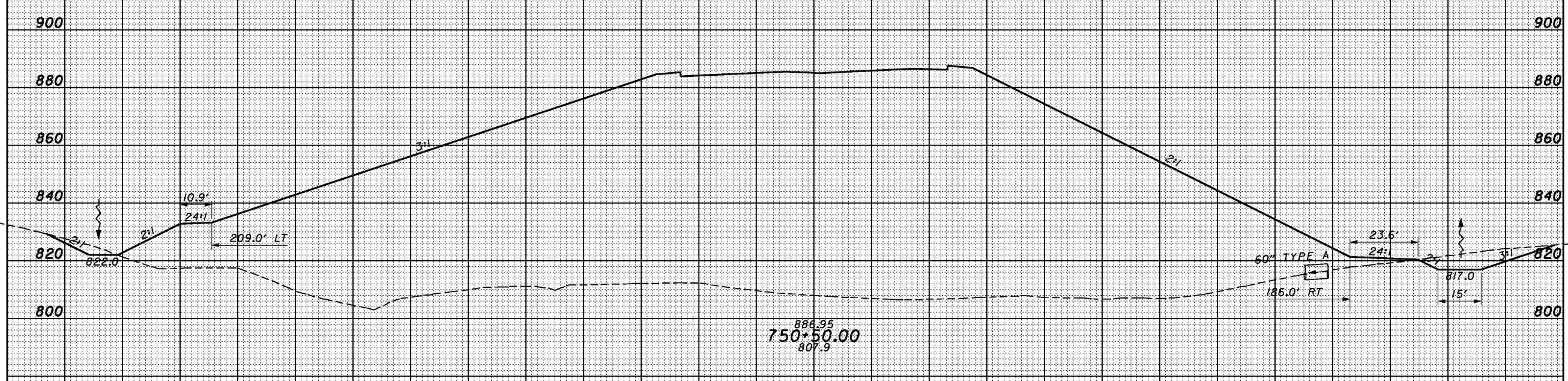
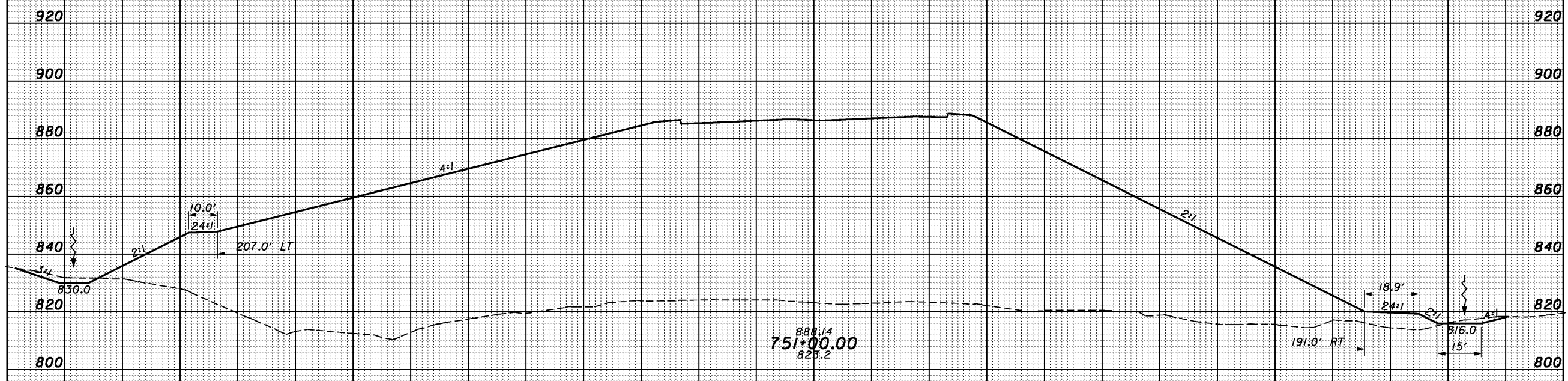
CROSS SECTIONS
SR823 - STA. 750+00.00

SCI-823-10.13

371

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 SHEET TOTAL

CROSS SECTIONS
 SR823 - STA. 750+50.00 TO STA. 751+00.00

SCI-823-10.13

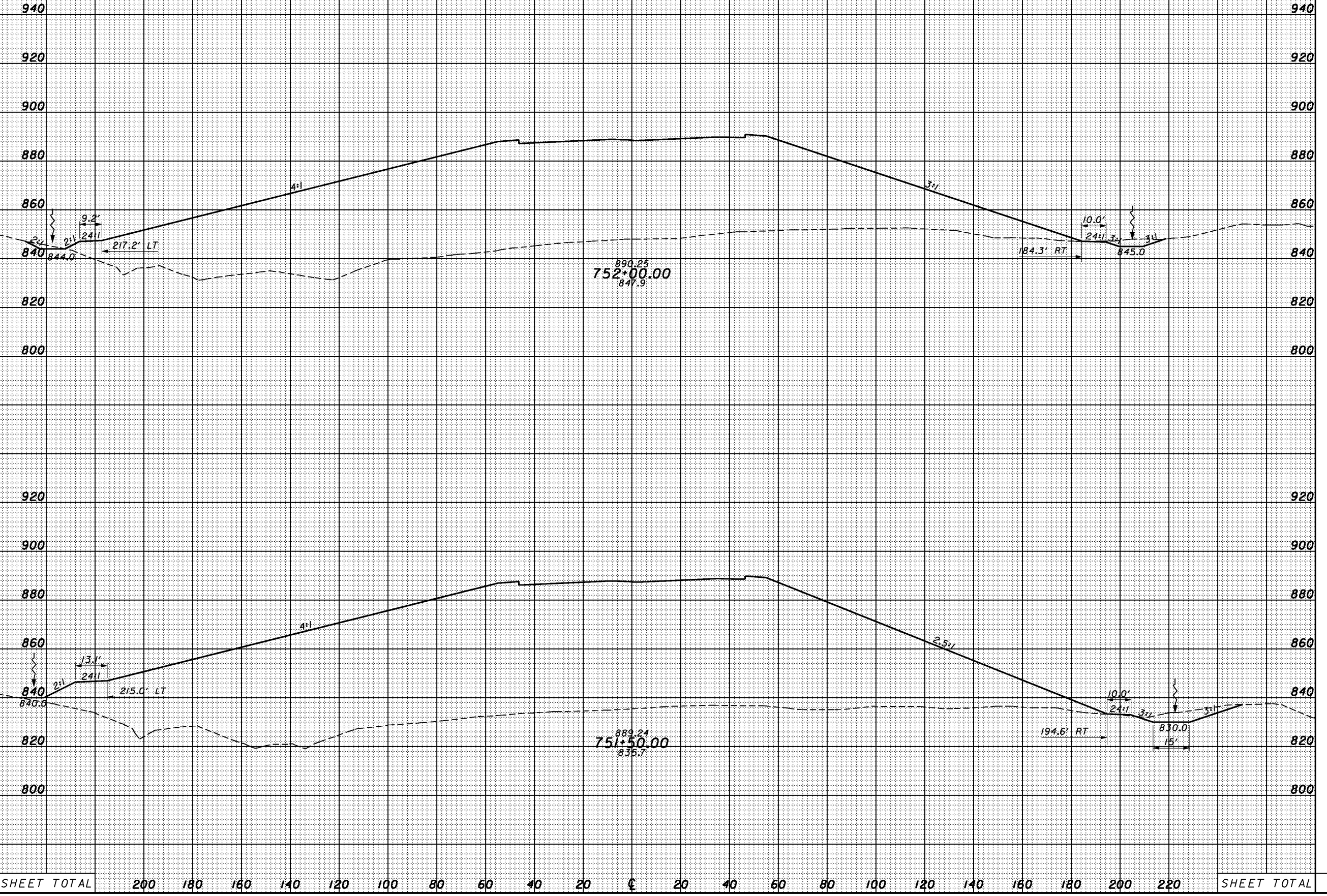
372

3/18/24 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_sr823.dgn

3:08:25 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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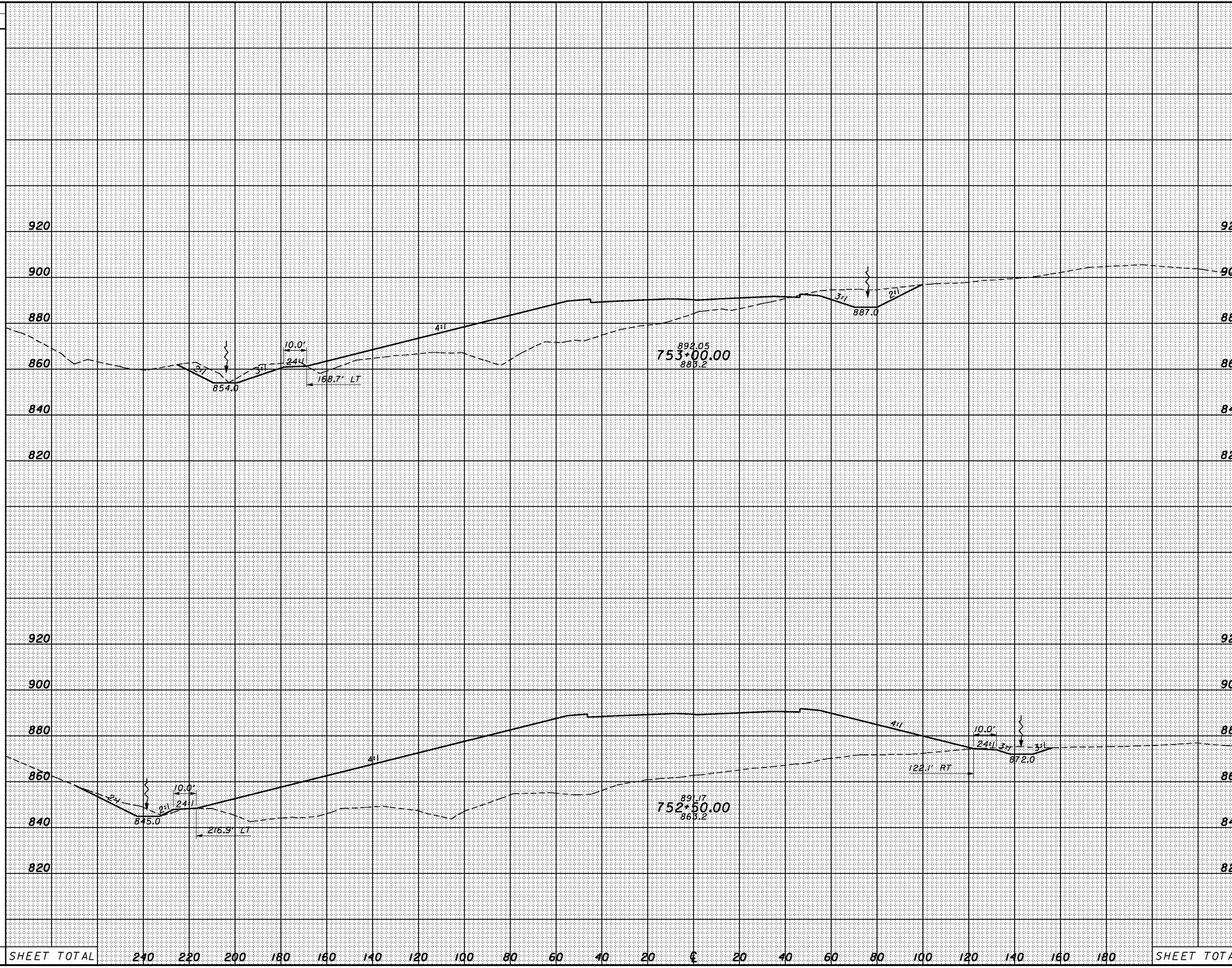
CROSS SECTIONS
 SR823 - STA. 751+50.00 TO STA. 752+00.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:18:26 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



SHEET TOTAL 240 220 200 180 160 140 120 100 80 60 40 20 CL 20 40 60 80 100 120 140 160 180 200 220 240 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 752+50.00 TO STA. 753+00.00

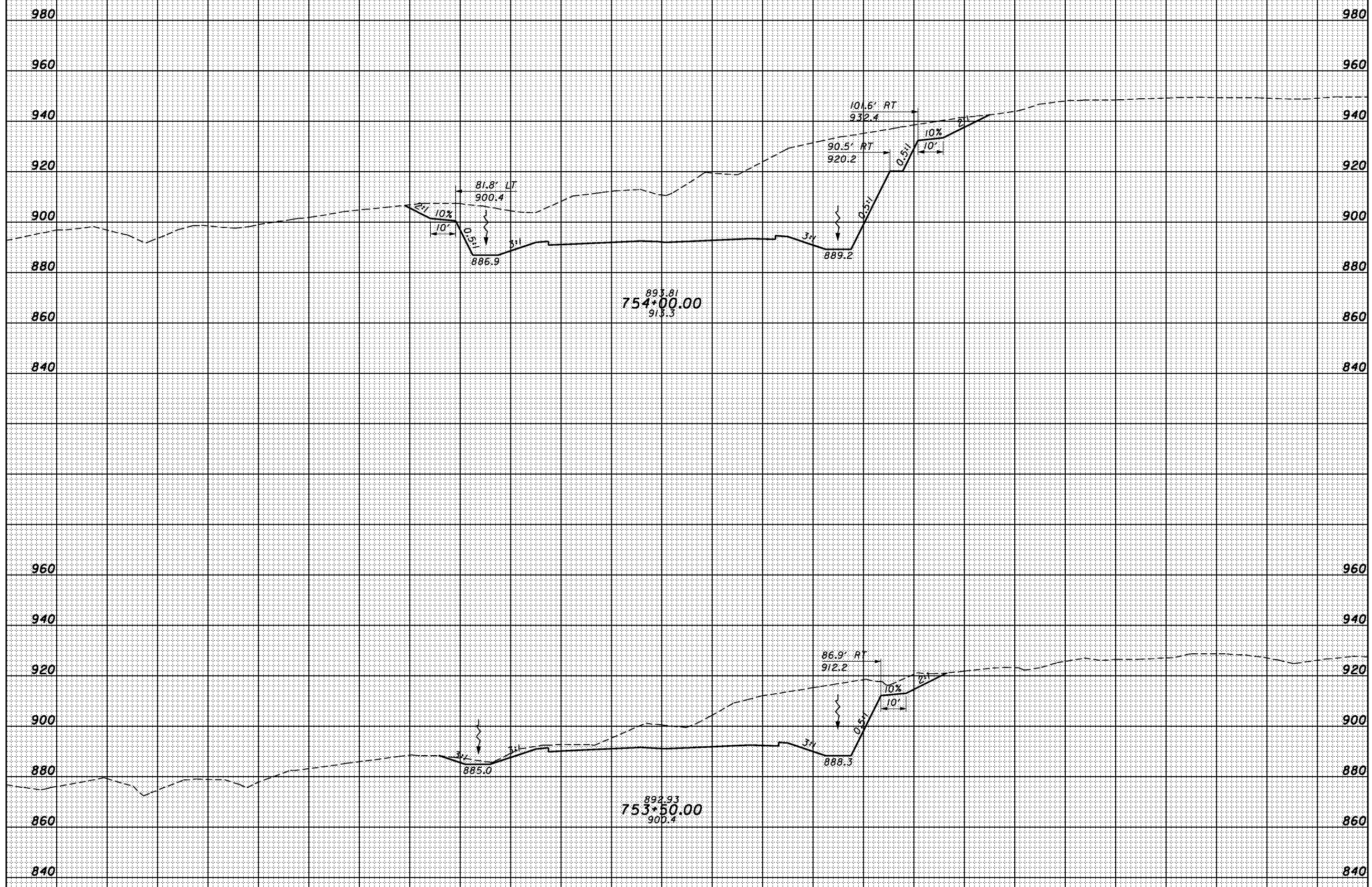
SCI-823-10.13

374

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:08:27 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



893.81
754+00.00
913.3

892.93
753+50.00
900.4

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

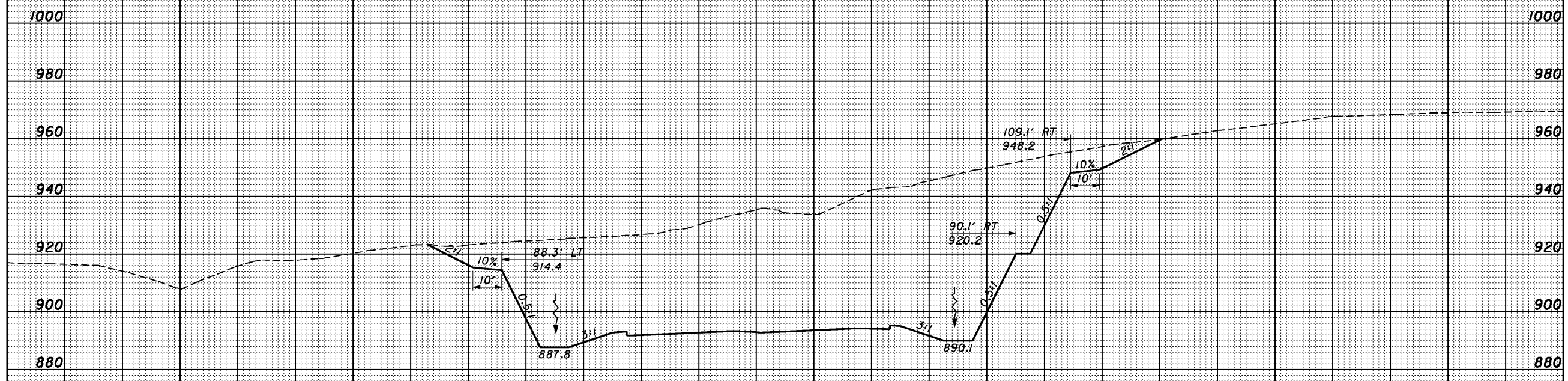
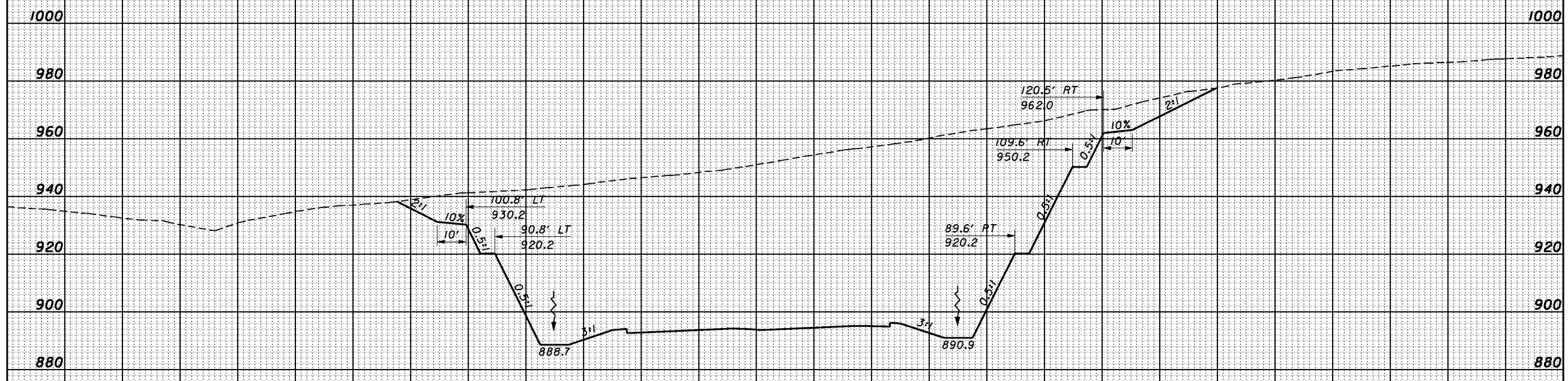
CROSS SECTIONS
SR823 - STA. 753+50.00 TO STA. 754+00.00

SCI-823-10.13

375

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 754+50.00 TO STA. 755+00.00

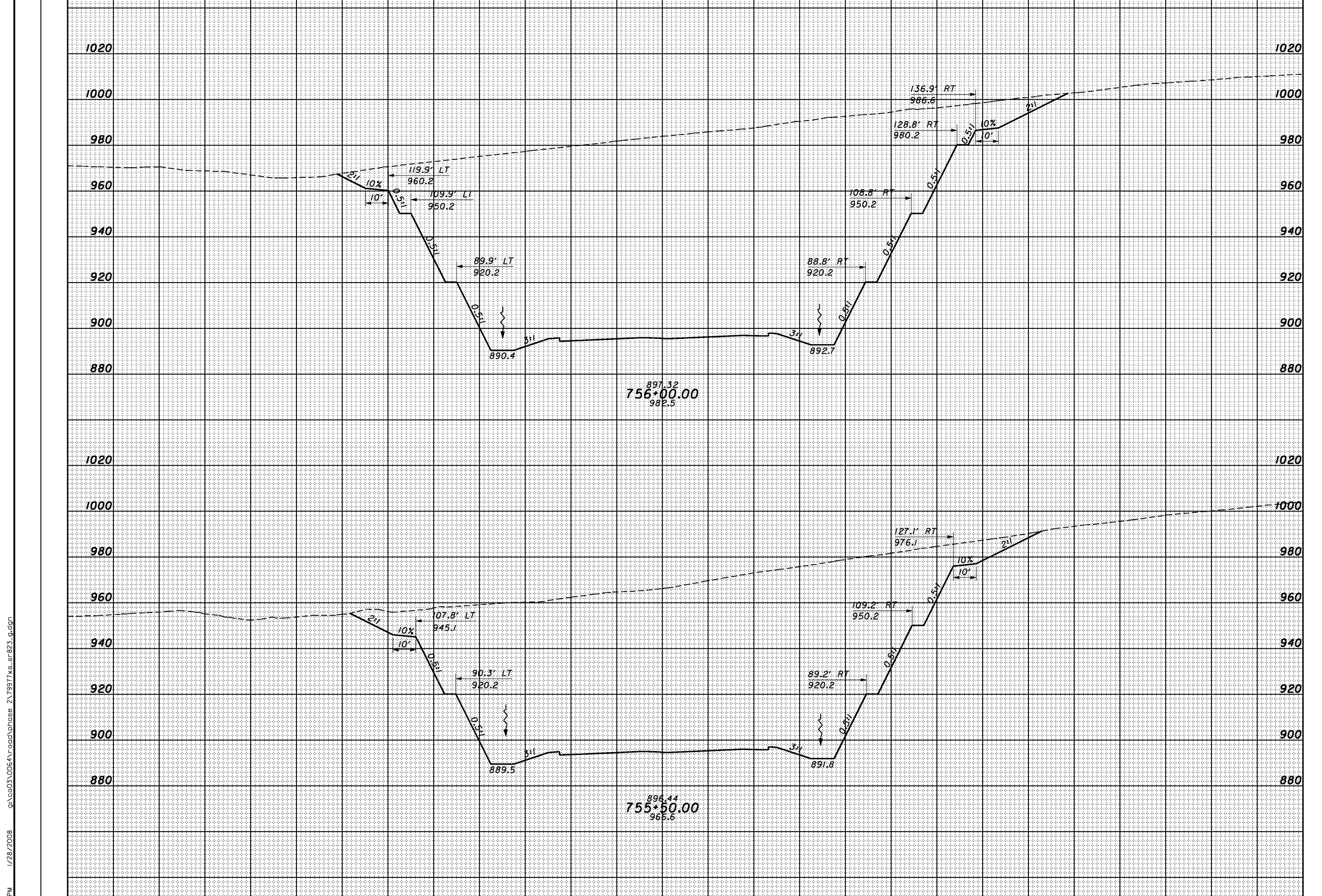
SCI-823-10.13

376

1/28/2008 3:18:28 PM g:\c003\0064\road\phase 2\75977xs_sr823.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



CROSS SECTIONS
SR823 - STA. 755+50.00 TO STA. 756+00.00

SCI-823-10.13

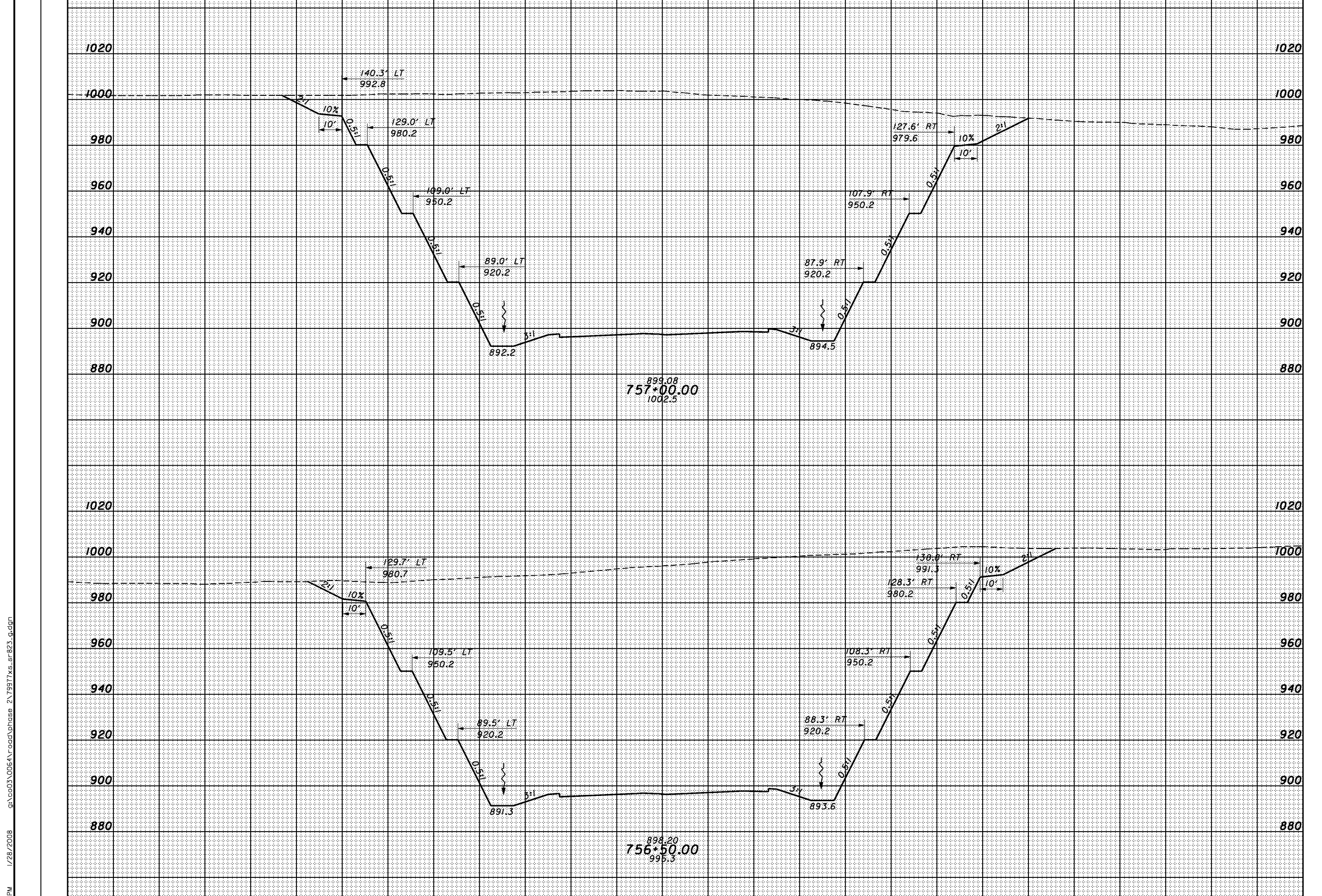
377

3/18/2008 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



3:18:30 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 756+50.00 TO STA. 757+00.00

SCI-823-10.13

378

3:08:31 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

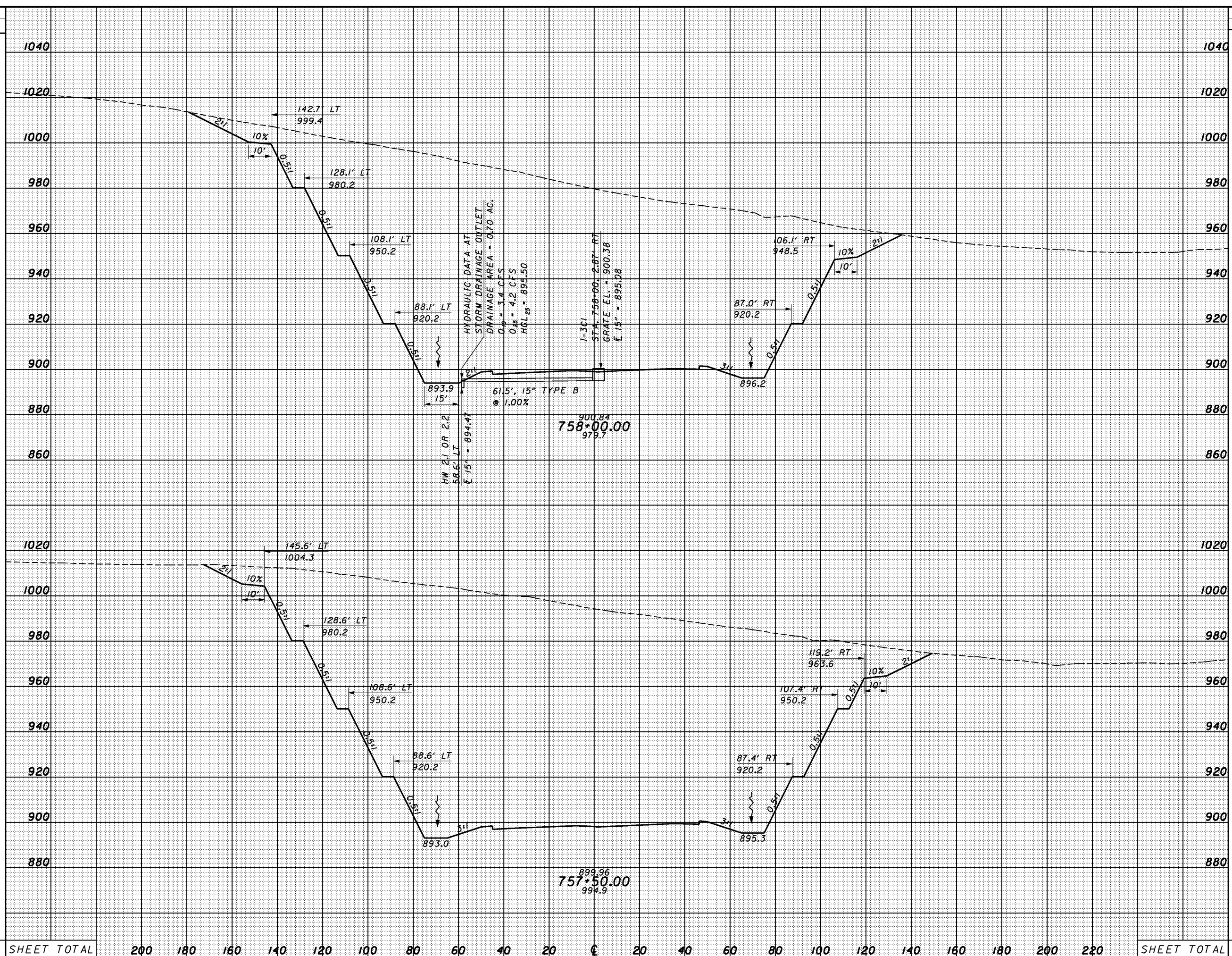
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 757+50.00 TO STA. 758+00.00

SCI-823-10.13

379

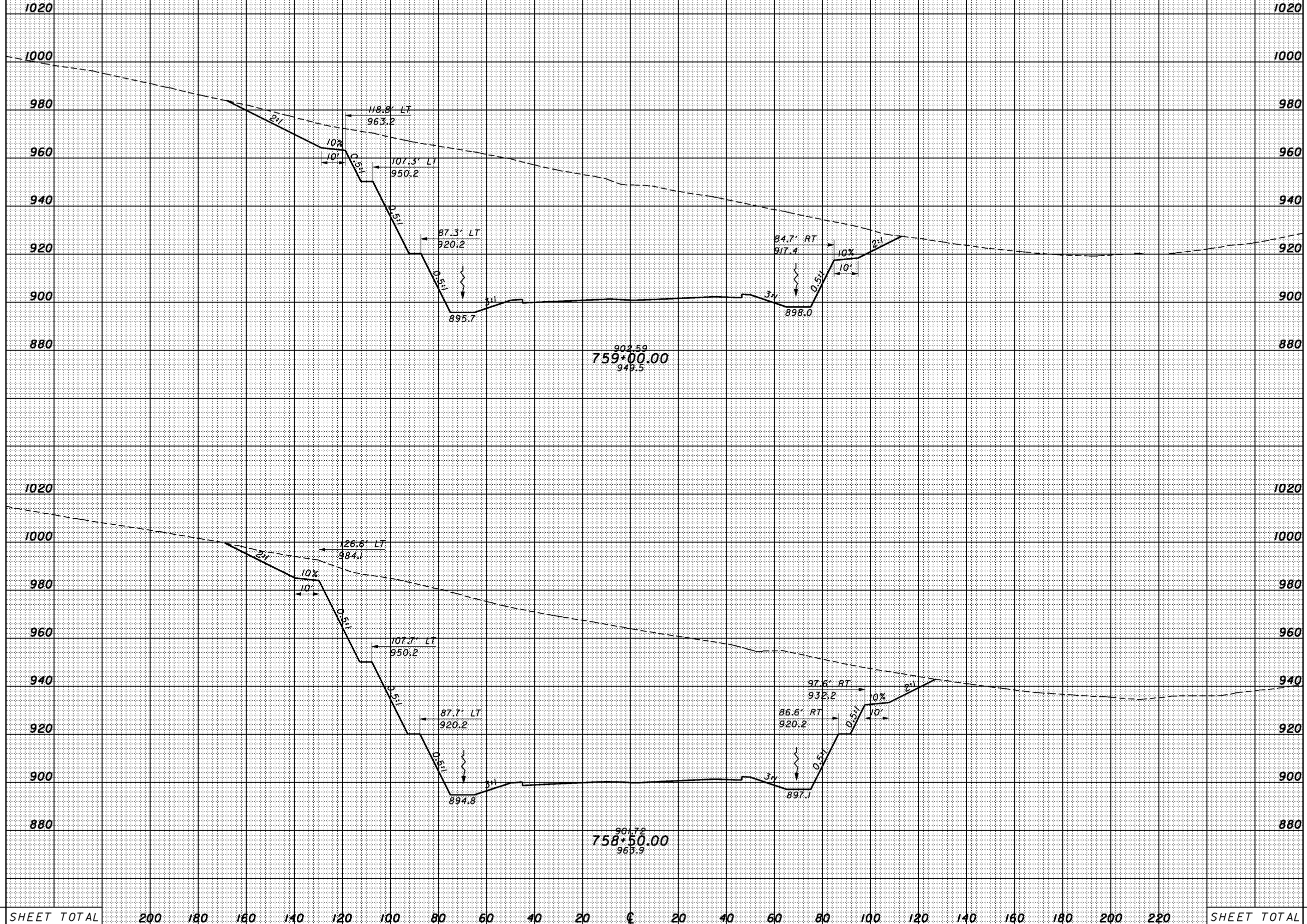


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3:08:32 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 758+50.00 TO STA. 759+00.00

SCI-823-10.13

380

3:08:33 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING

END WIDTH SO. YDS.

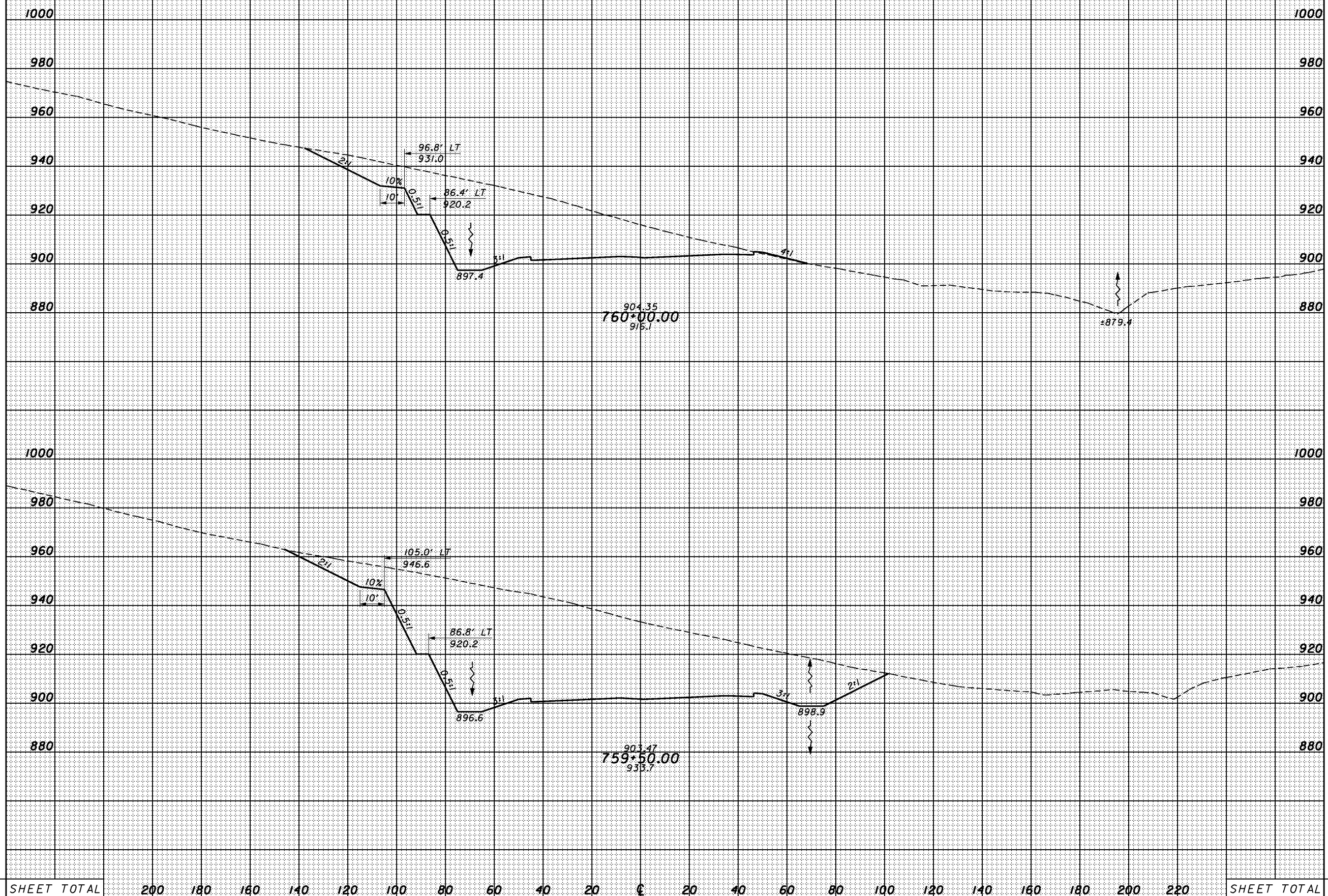
END AREA

CUT FILL

VOLUME

CUT FILL

CALCULATED CHECKED



CROSS SECTIONS
SR823 - STA. 759+50.00 TO STA. 760+00.00

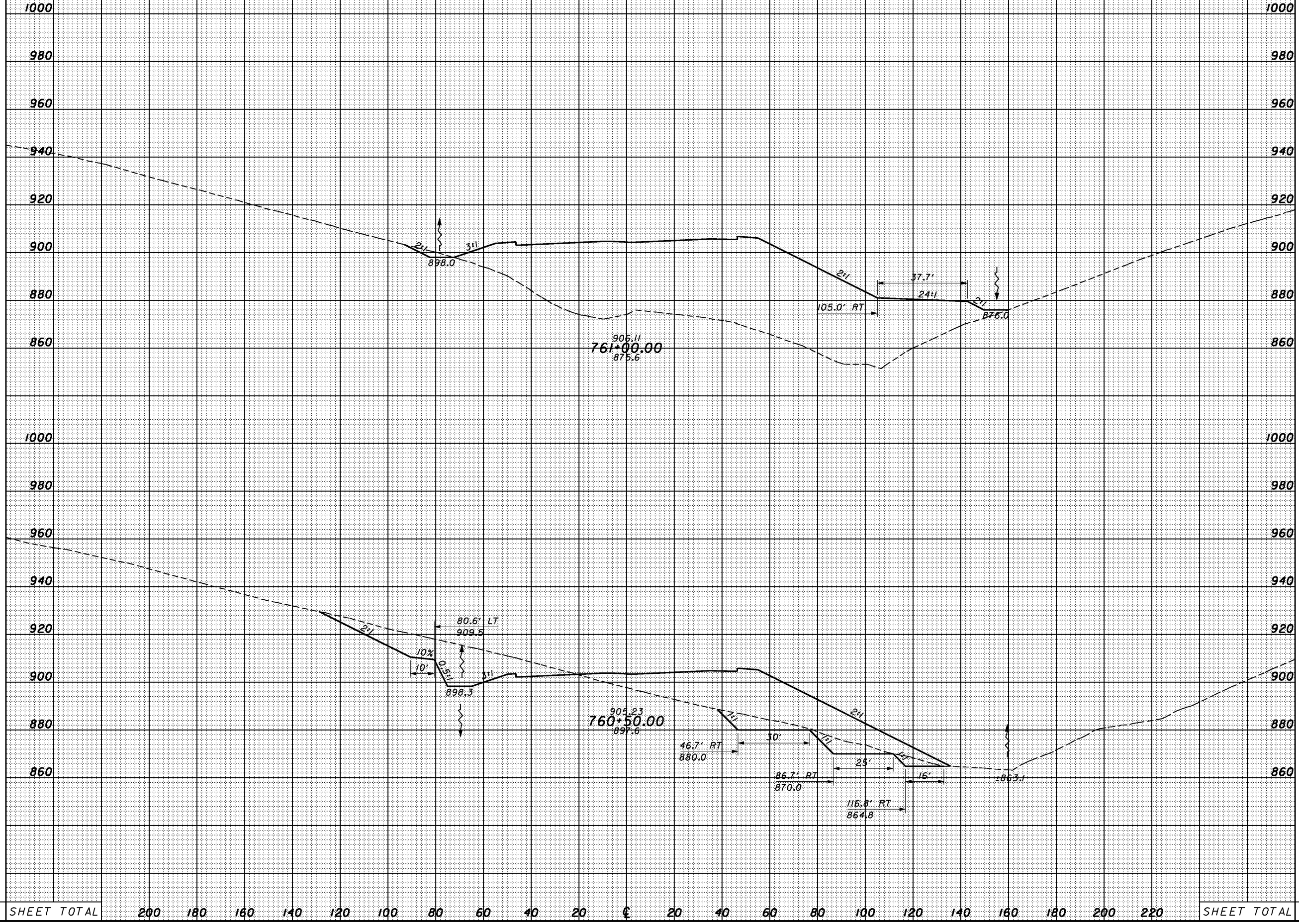
SCI-823-10.13

381

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:08:34 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 760+50.00 TO STA. 761+00.00

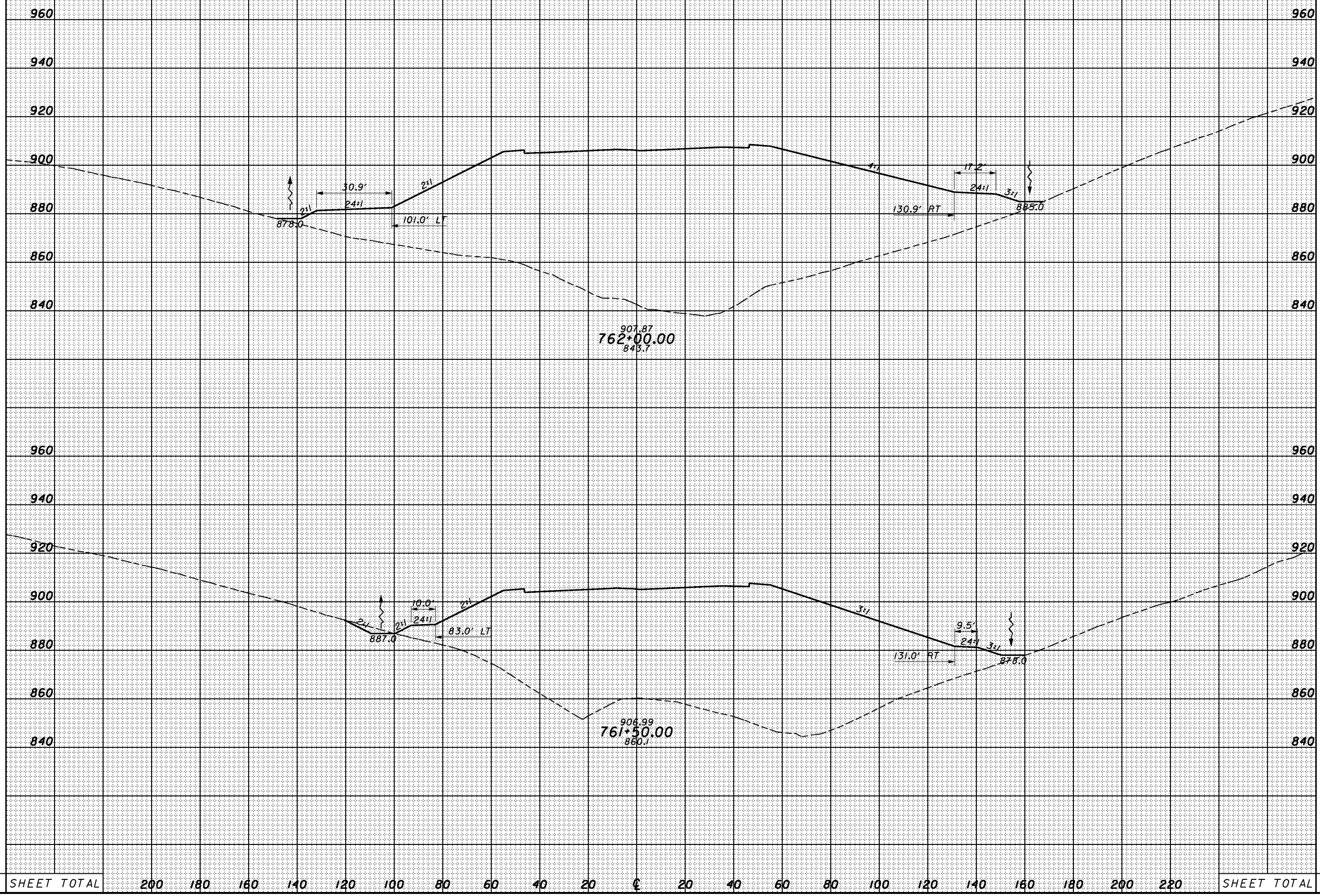
SCI-823-10.13

382

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

3:08:35 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
 SR823 - STA. 761+50.00 TO STA. 762+00.00
 SCI-823-10.13

3:08:36 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

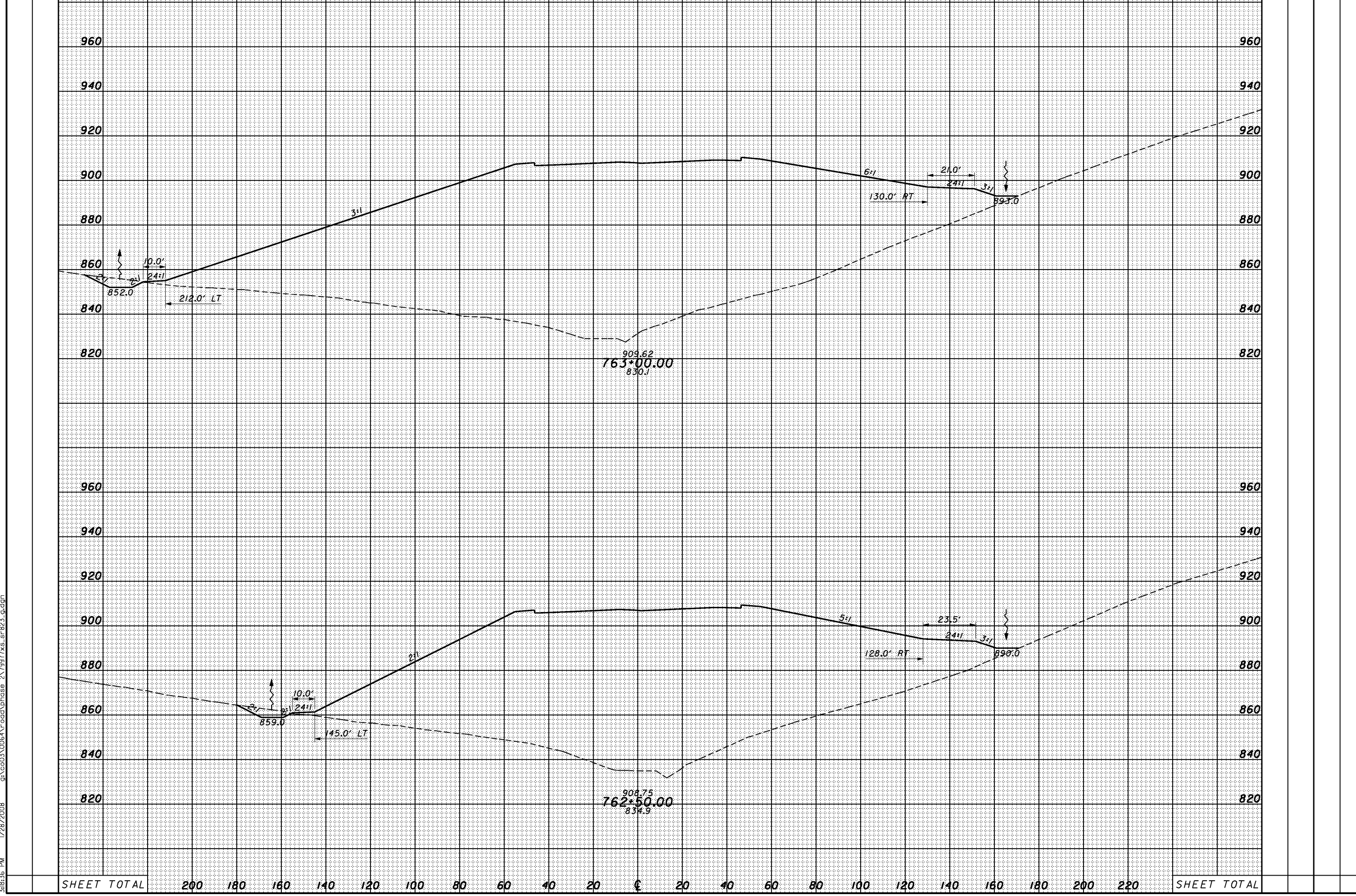
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS
SR823 - STA. 762+50.00 TO STA. 763+00.00

SCI-823-10.13

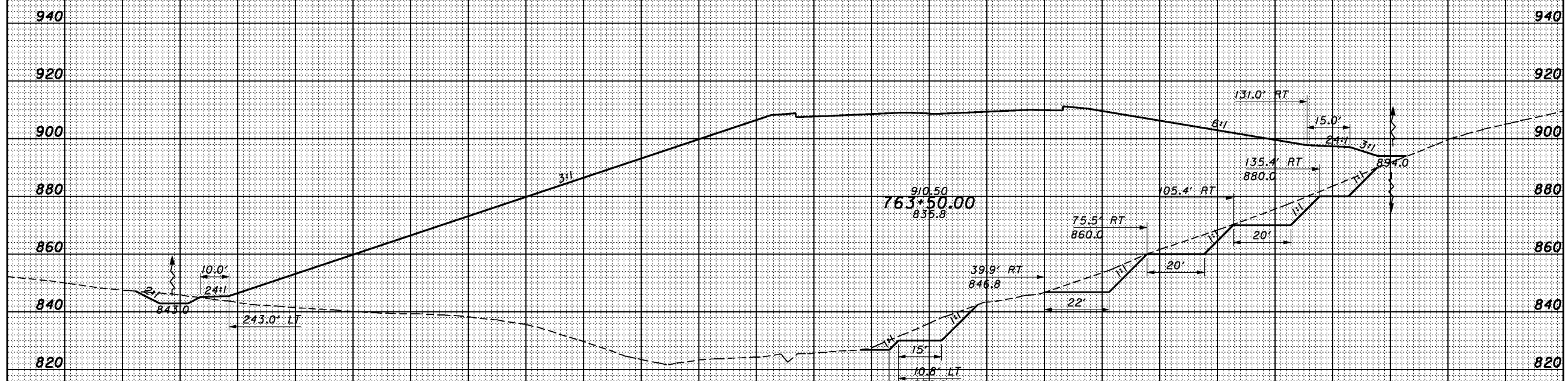
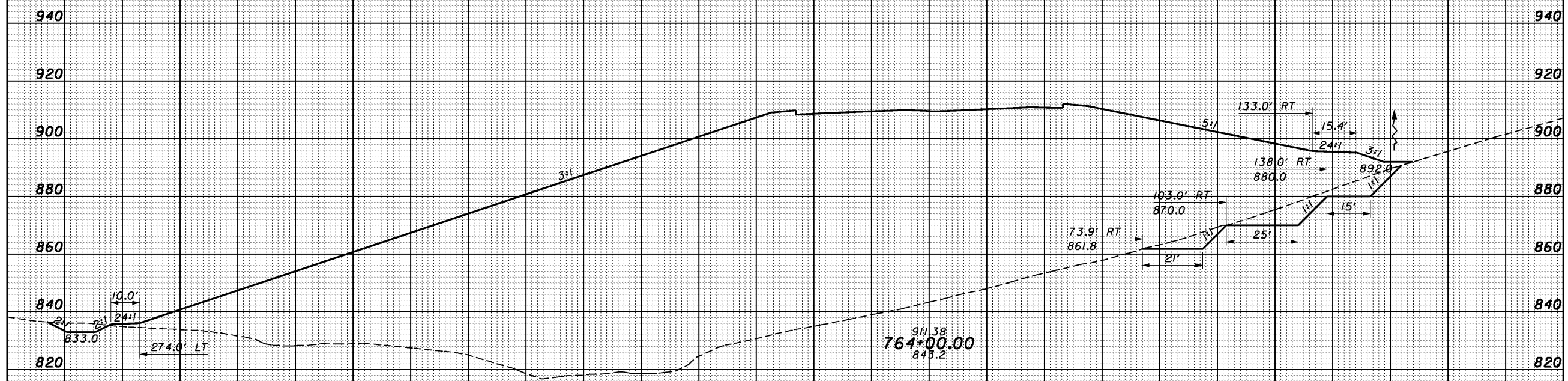
384



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



SHEET TOTAL 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 SHEET TOTAL

CROSS SECTIONS
 SR823 - STA. 763+50.00 TO STA. 764+00.00

SCI-823-10.13

385

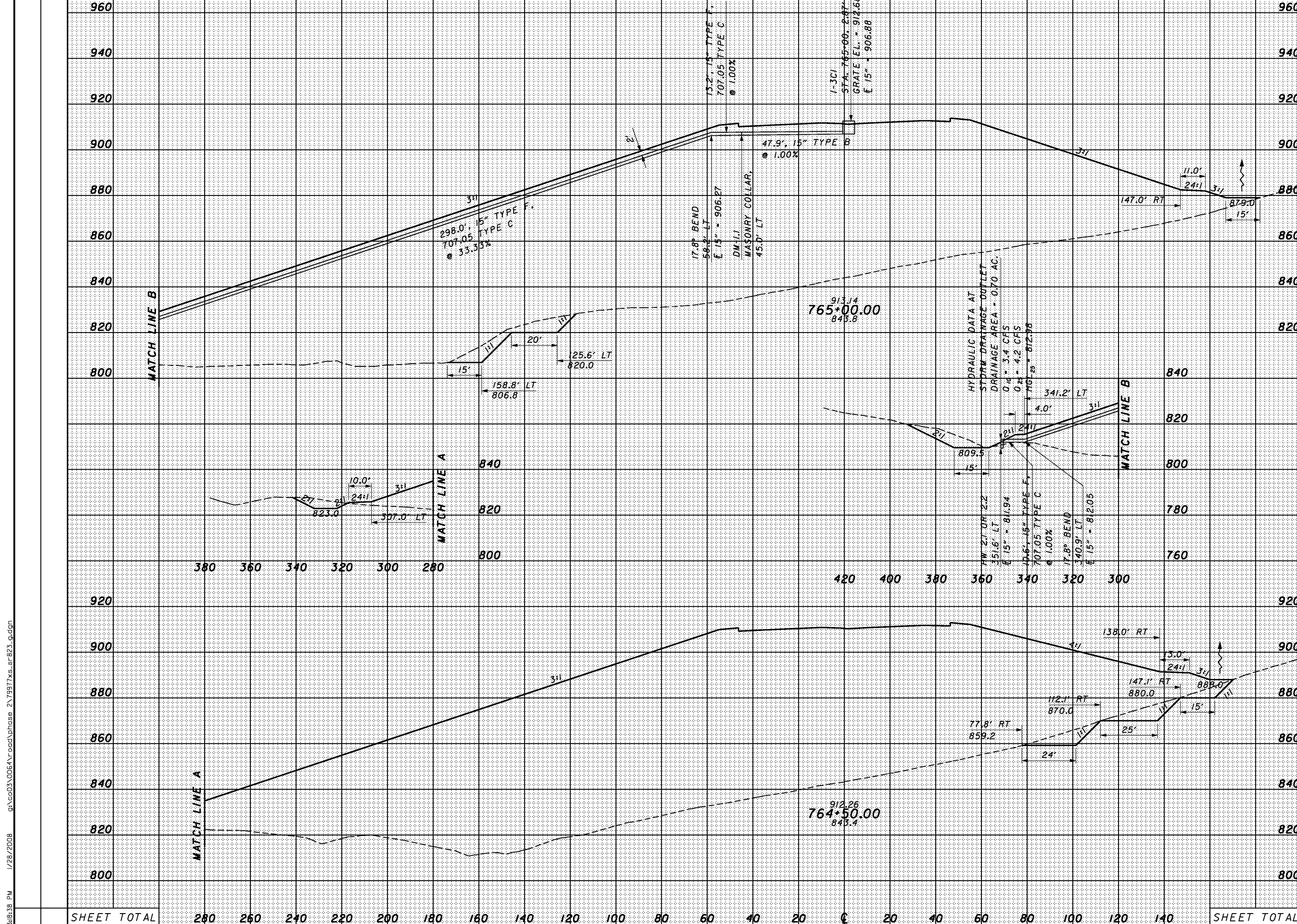
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3:48:38 PM 1/28/2008 g:\c03\0064\road\phase 2\79917xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

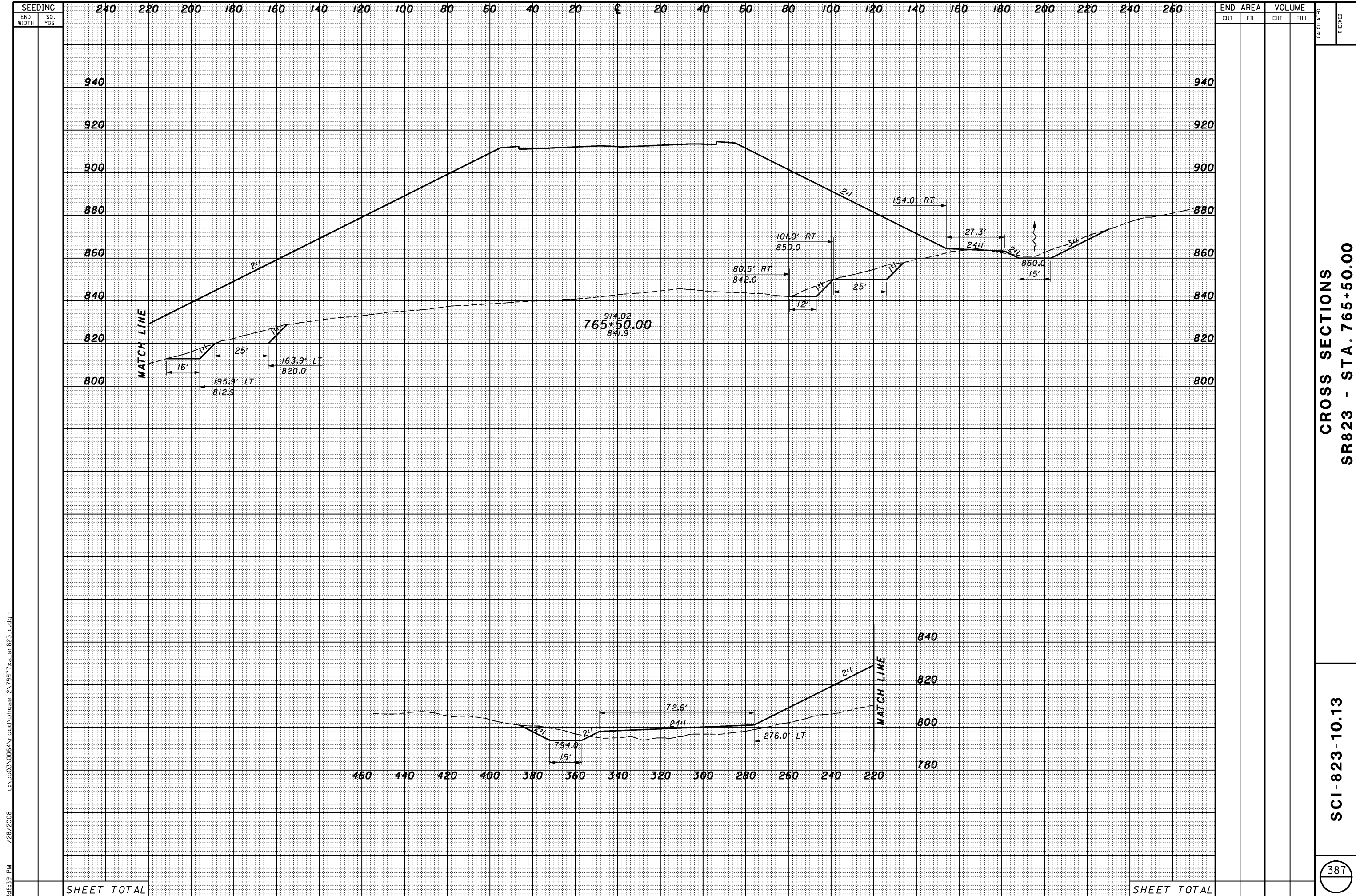
CALCULATED
CHECKED



CROSS SECTIONS
SR823 - STA. 764+50.00 TO STA. 765+00.00

SCI-823-10.13

386

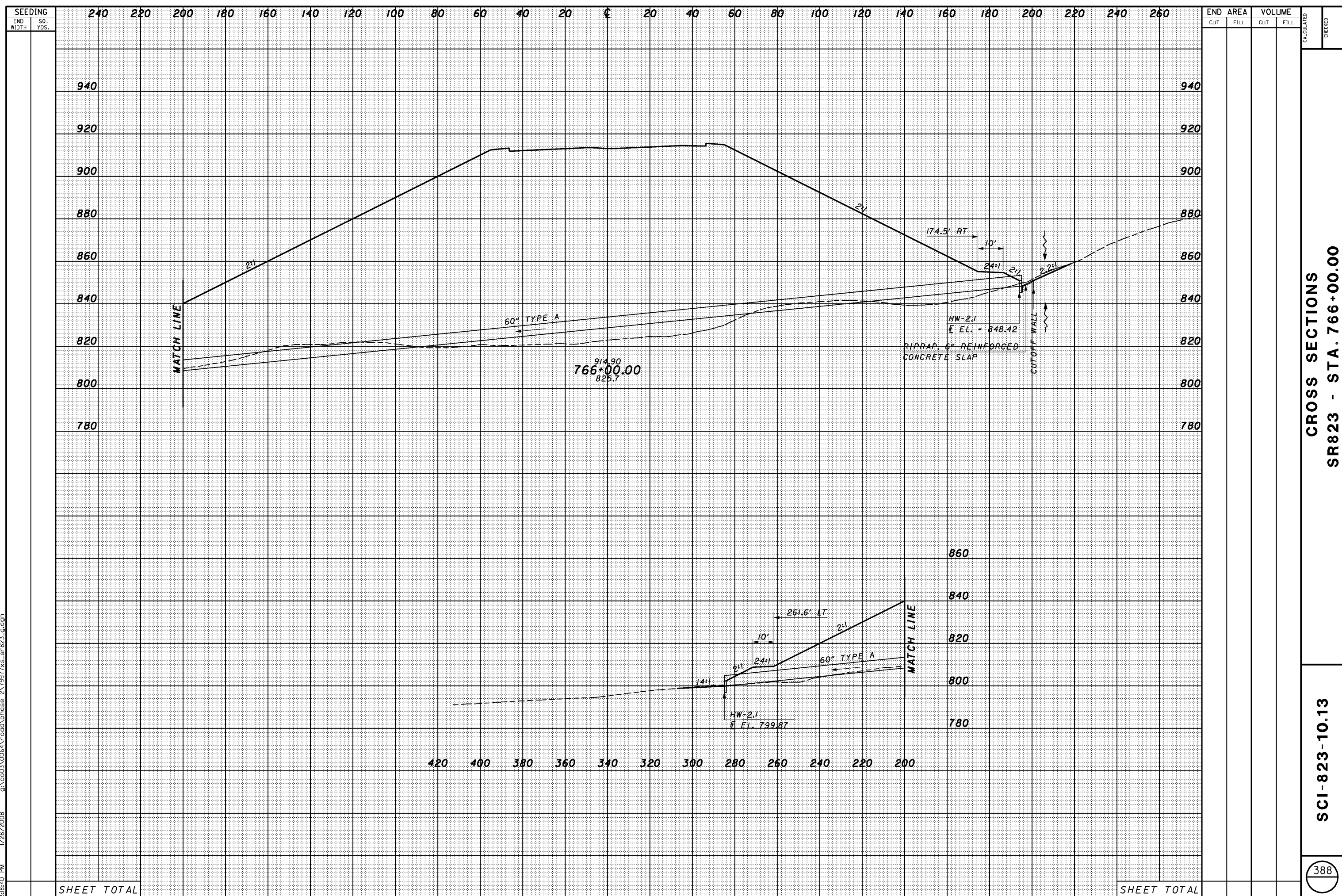


CROSS SECTIONS
SR823 - STA. 765+50.00

SCI-823-10.13

3/8/2008 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

3/8/10 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		

CROSS SECTIONS
SR823 - STA. 766+00.00

SCI-823-10.13

388

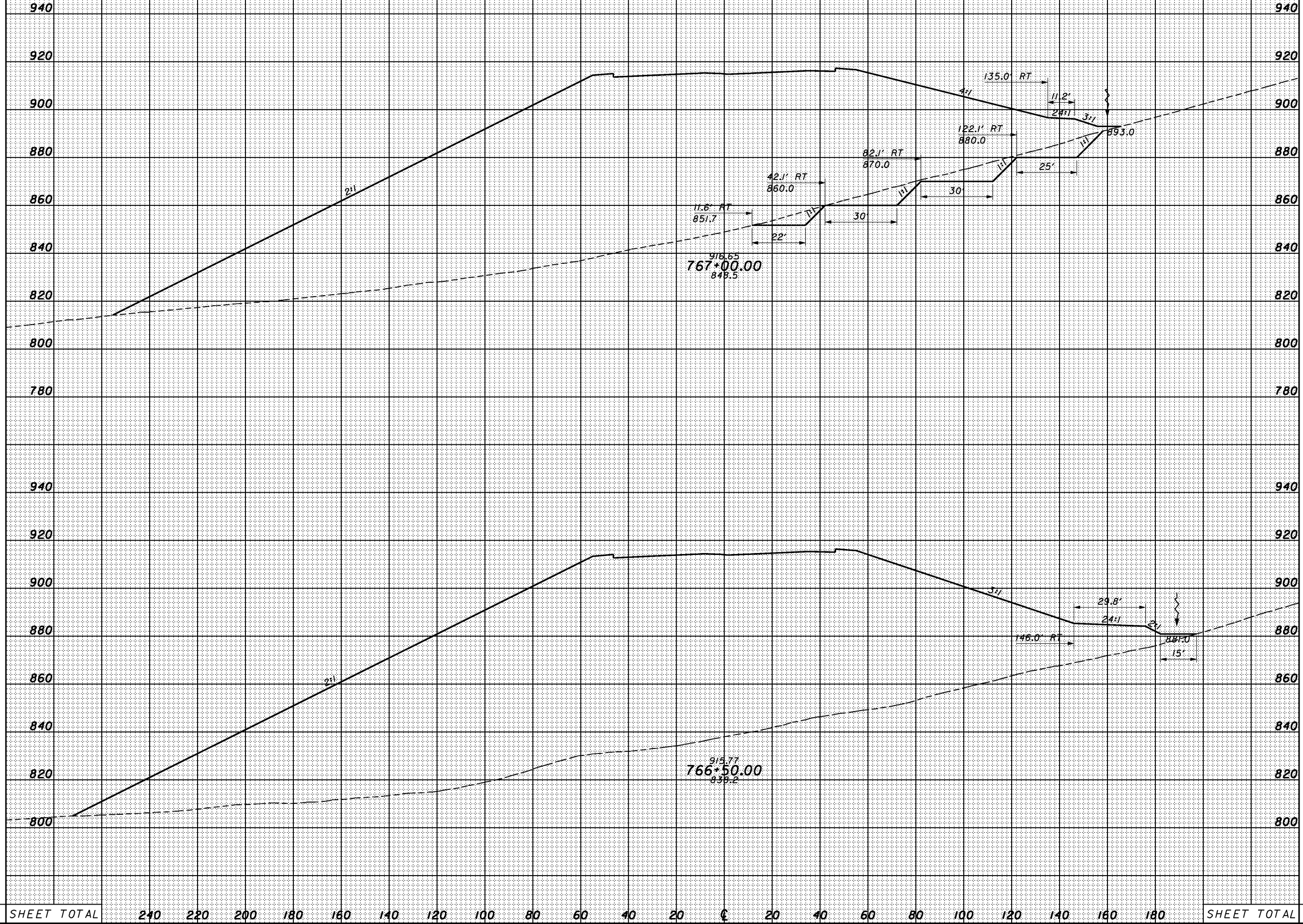
SHEET TOTAL

SHEET TOTAL

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

3/18/11 PM 1/28/2008 g:\c003\0064\road\phase 2\79977xs_sr823.dgn



SHEET TOTAL	240	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	SHEET TOTAL
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SR823 - STA. 766+50.00 TO STA. 767+00.00

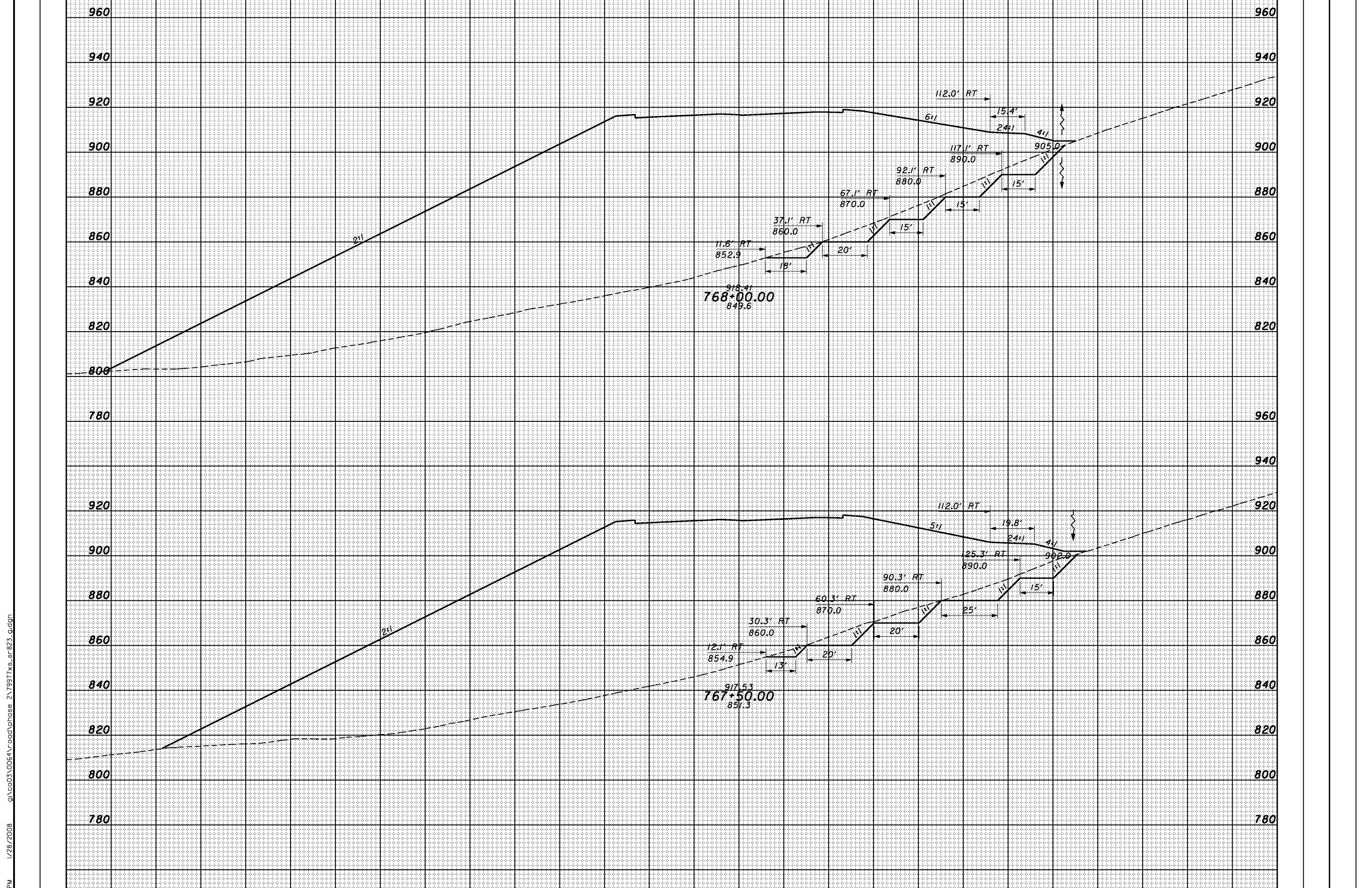
SCI-823-10.13

3:18:42 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED



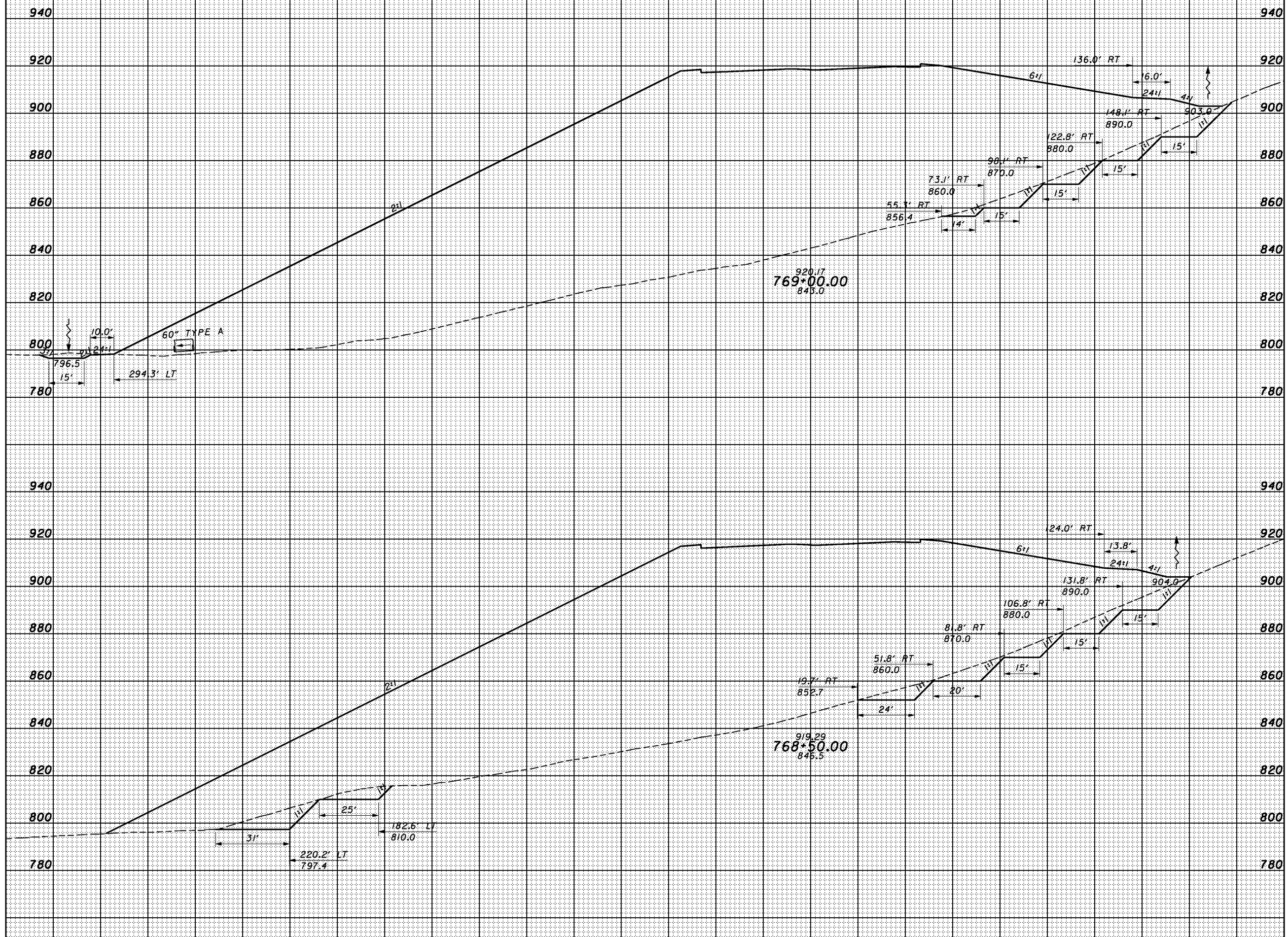
CROSS SECTIONS
SR823 - STA. 767+50.00 TO STA. 768+00.00

SCI-823-10.13

SHEET TOTAL	240	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	SHEET TOTAL
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SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



SHEET TOTAL 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 SHEET TOTAL

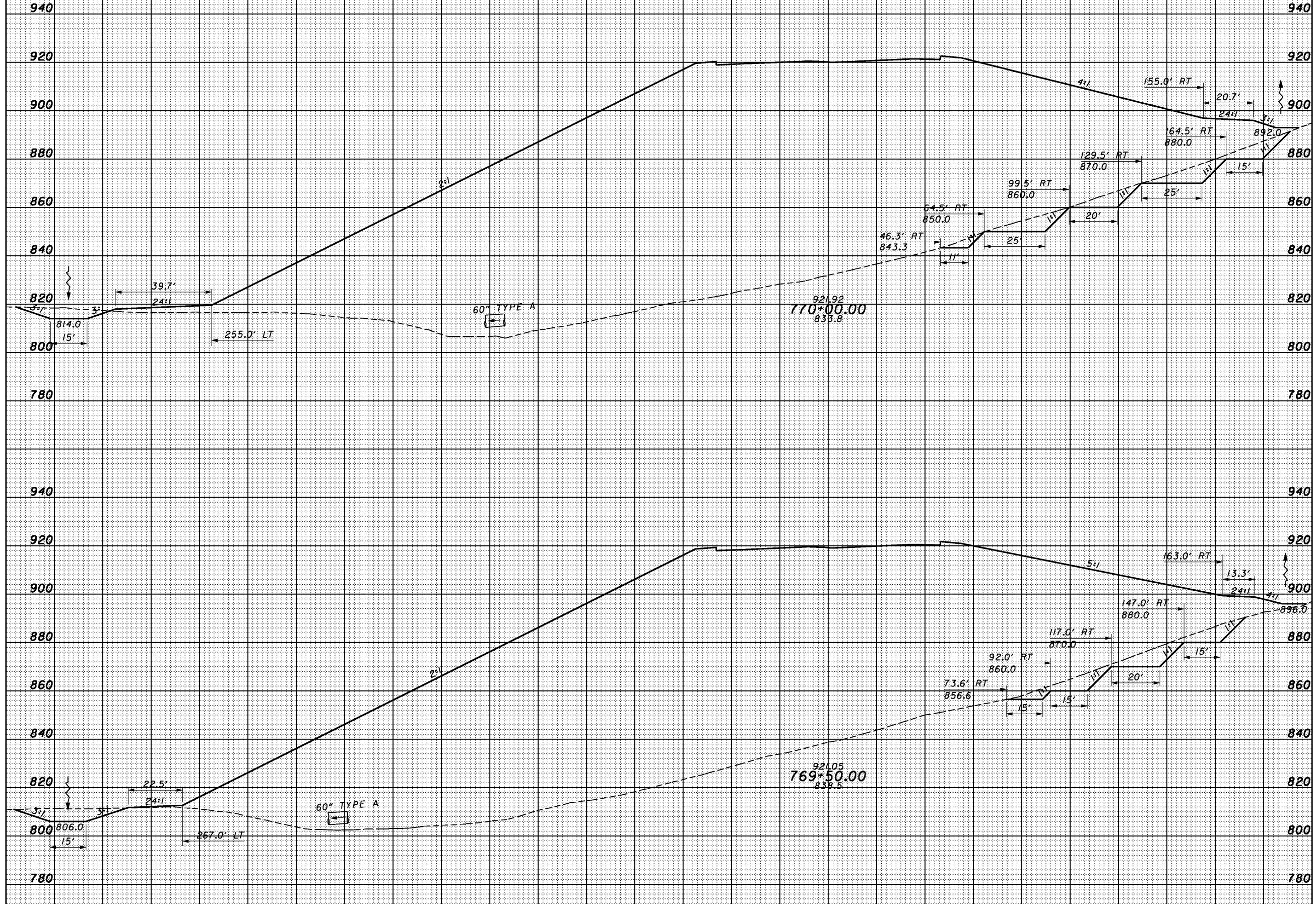
CROSS SECTIONS
SR823 - STA. 768+50.00 TO STA. 769+00.00

SCI-823-10.13

1/28/2008 3:18:43 PM g:\c03\0064\road\phase 2\79717xs_sr823.dgn

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 769+50.00 TO STA. 770+00.00

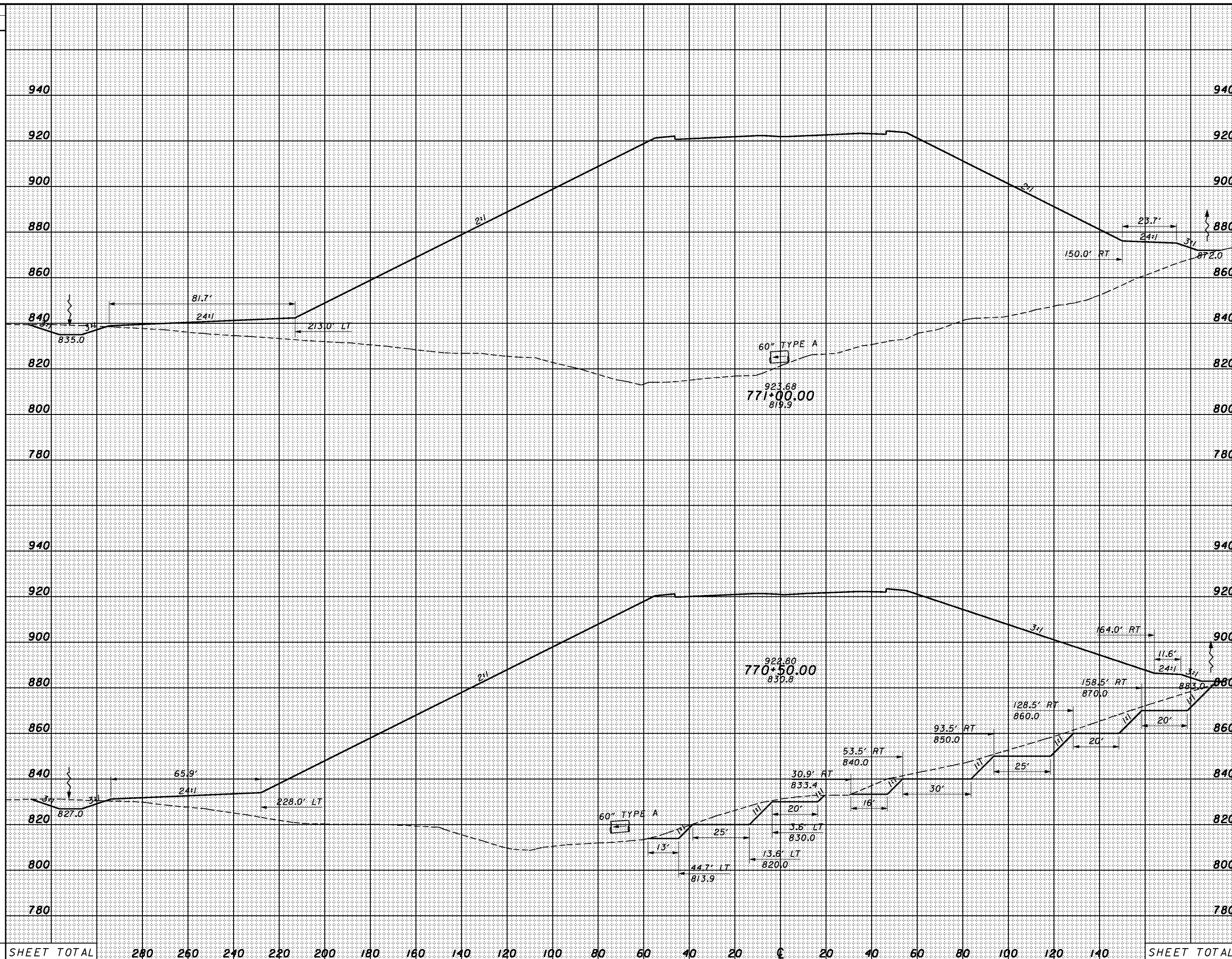
SCI-823-10.13

3/18/14 PM 1/28/2008 g:\c003\0064\road\phase 2\79977xs_sr823.dgn

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SEEDING
END SO.
WIDTH YDS.

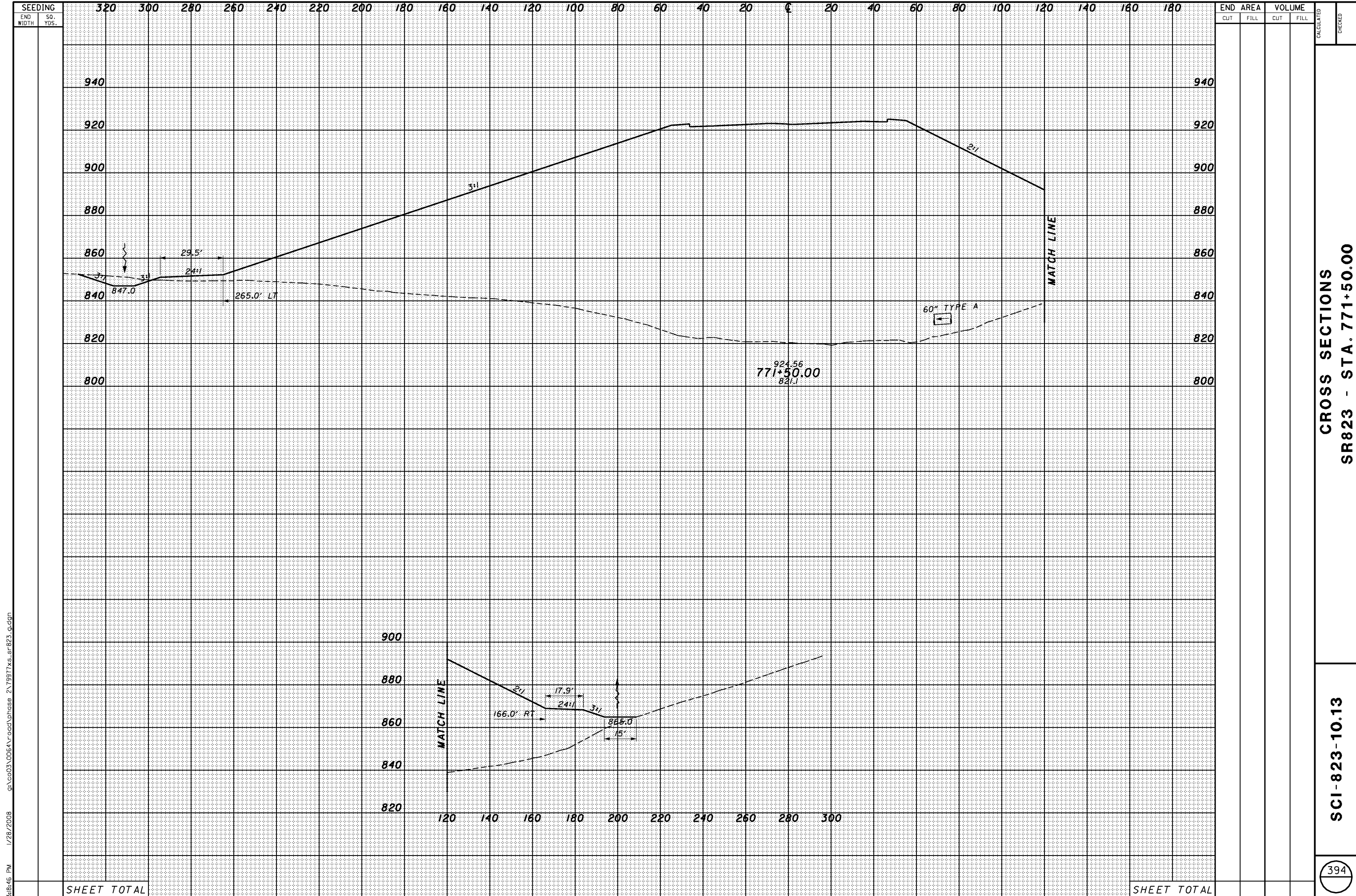
END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 770+50.00 TO STA. 771+00.00

SCI-823-10.13



END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

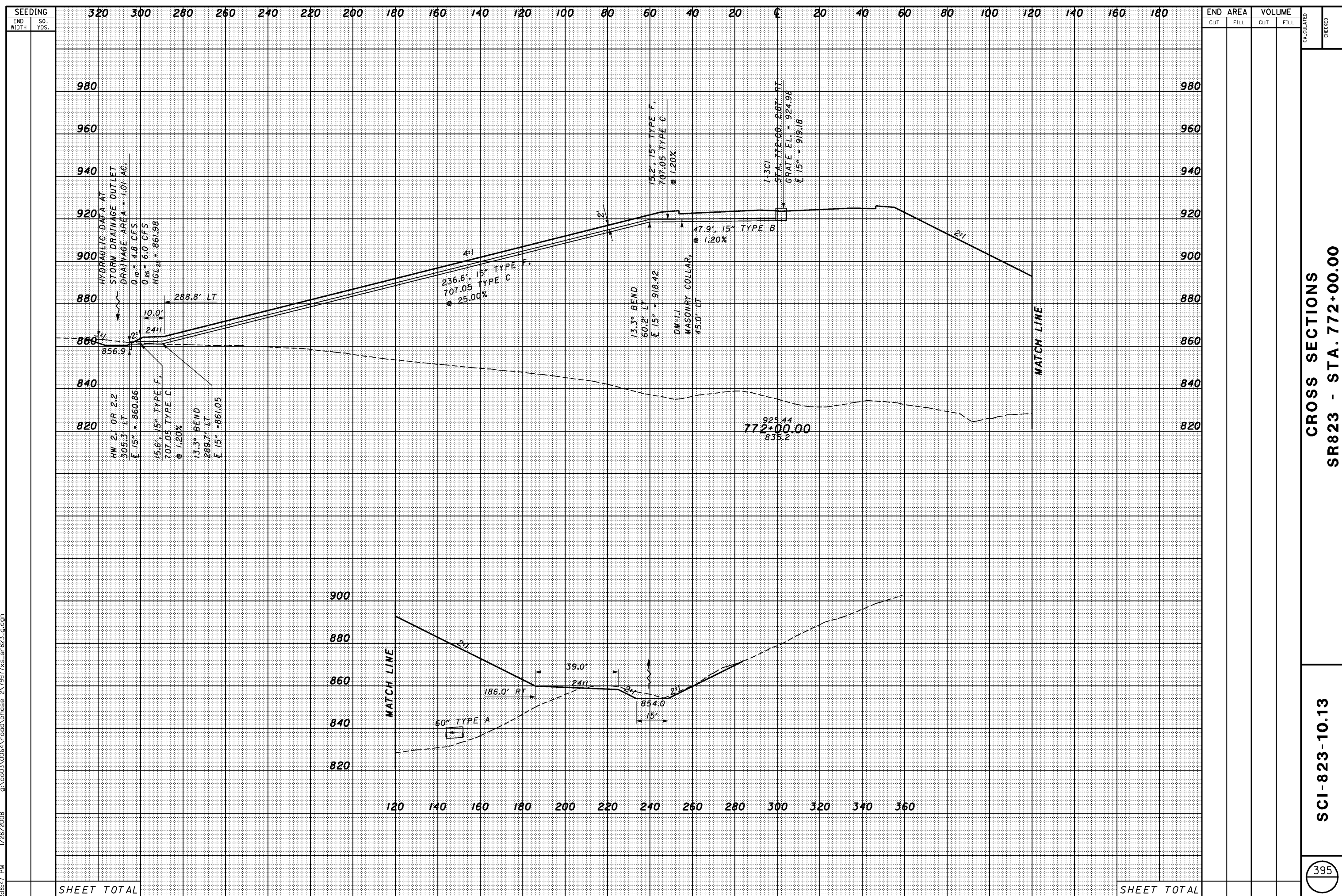
CROSS SECTIONS
SR823 - STA. 771+50.00

SCI-823-10.13

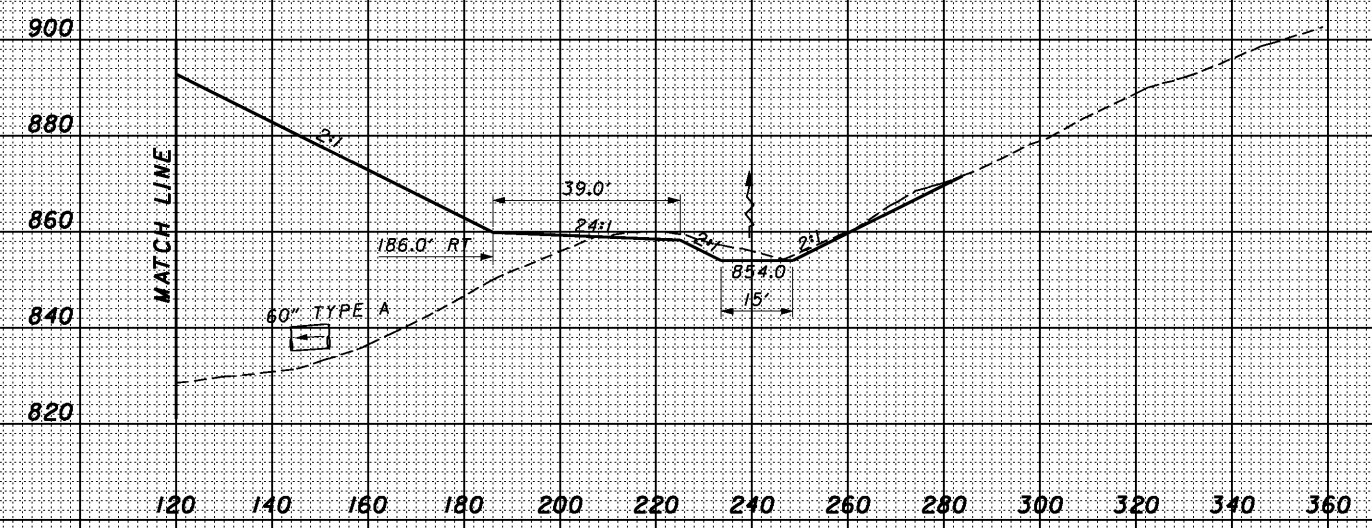
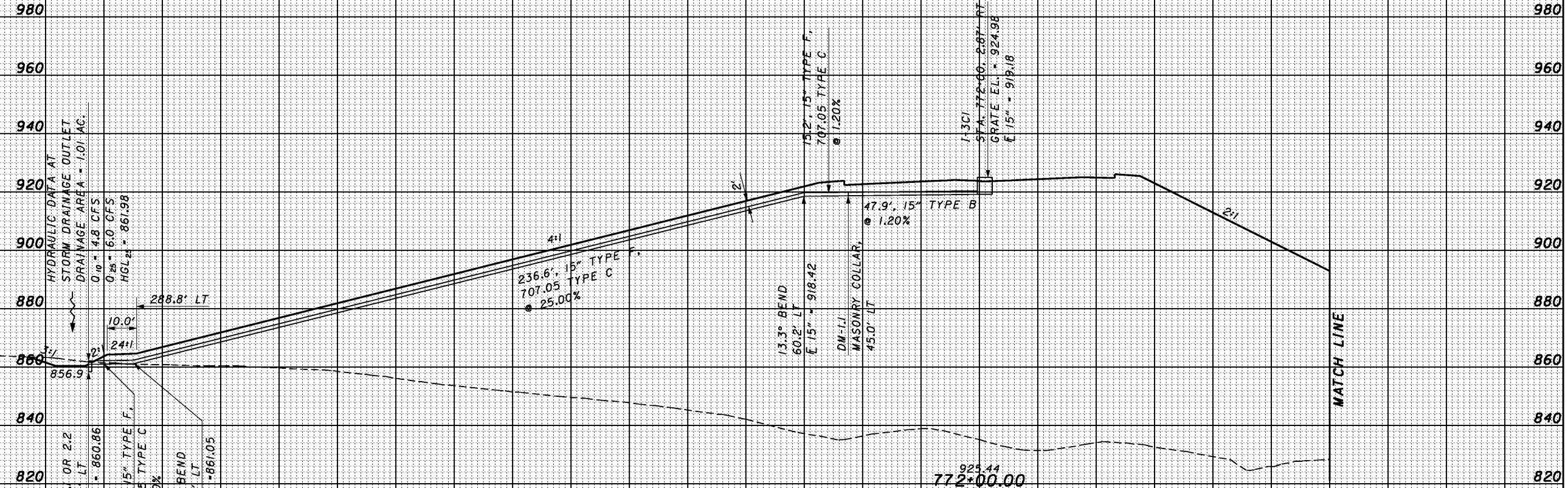
394

3/8/2008 11/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

3:48:47 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn



320 300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180



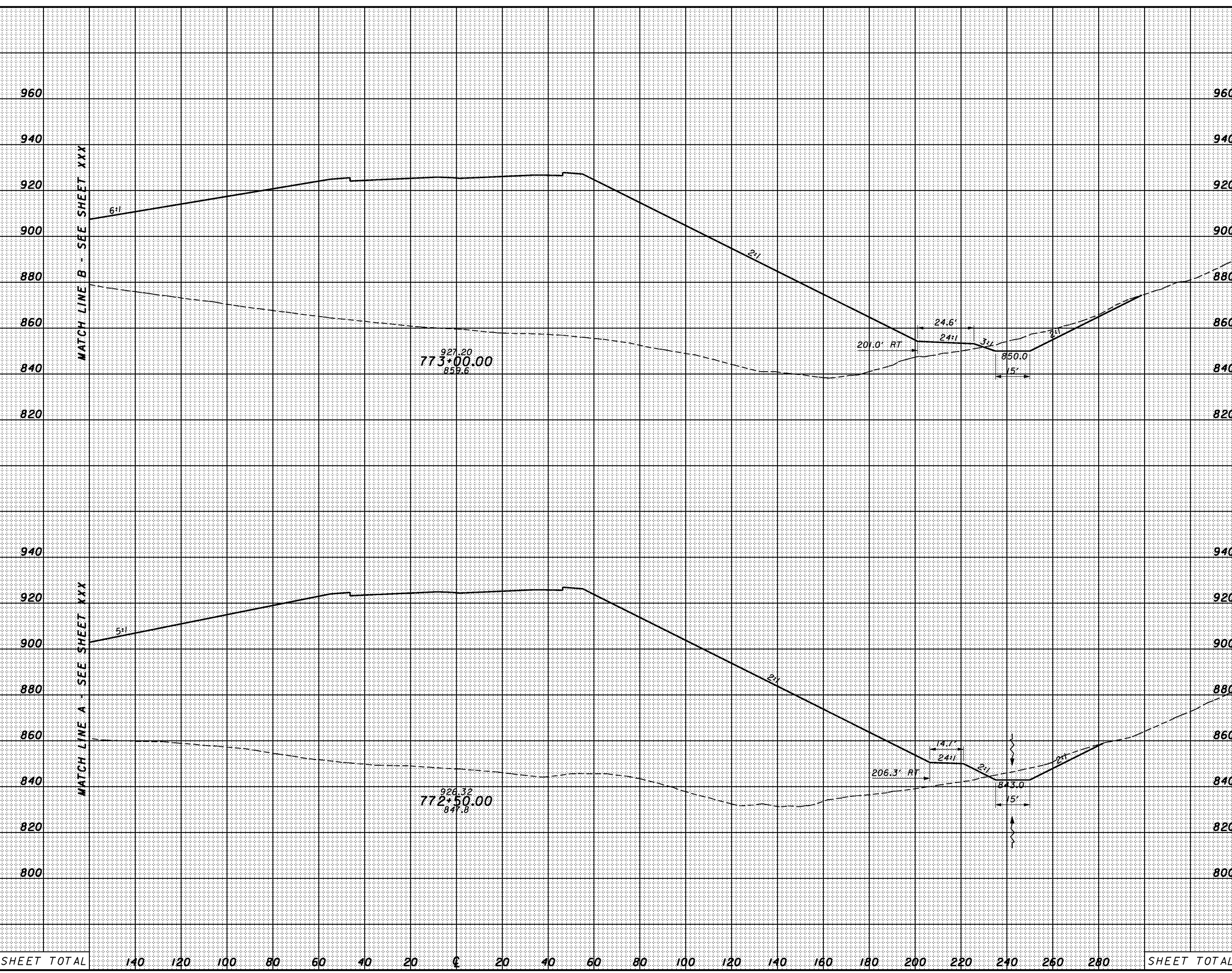
SHEET TOTAL

SHEET TOTAL

3:08:48 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	SHEET TOTAL
-------------	-----	-----	-----	----	----	----	----	---	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-------------

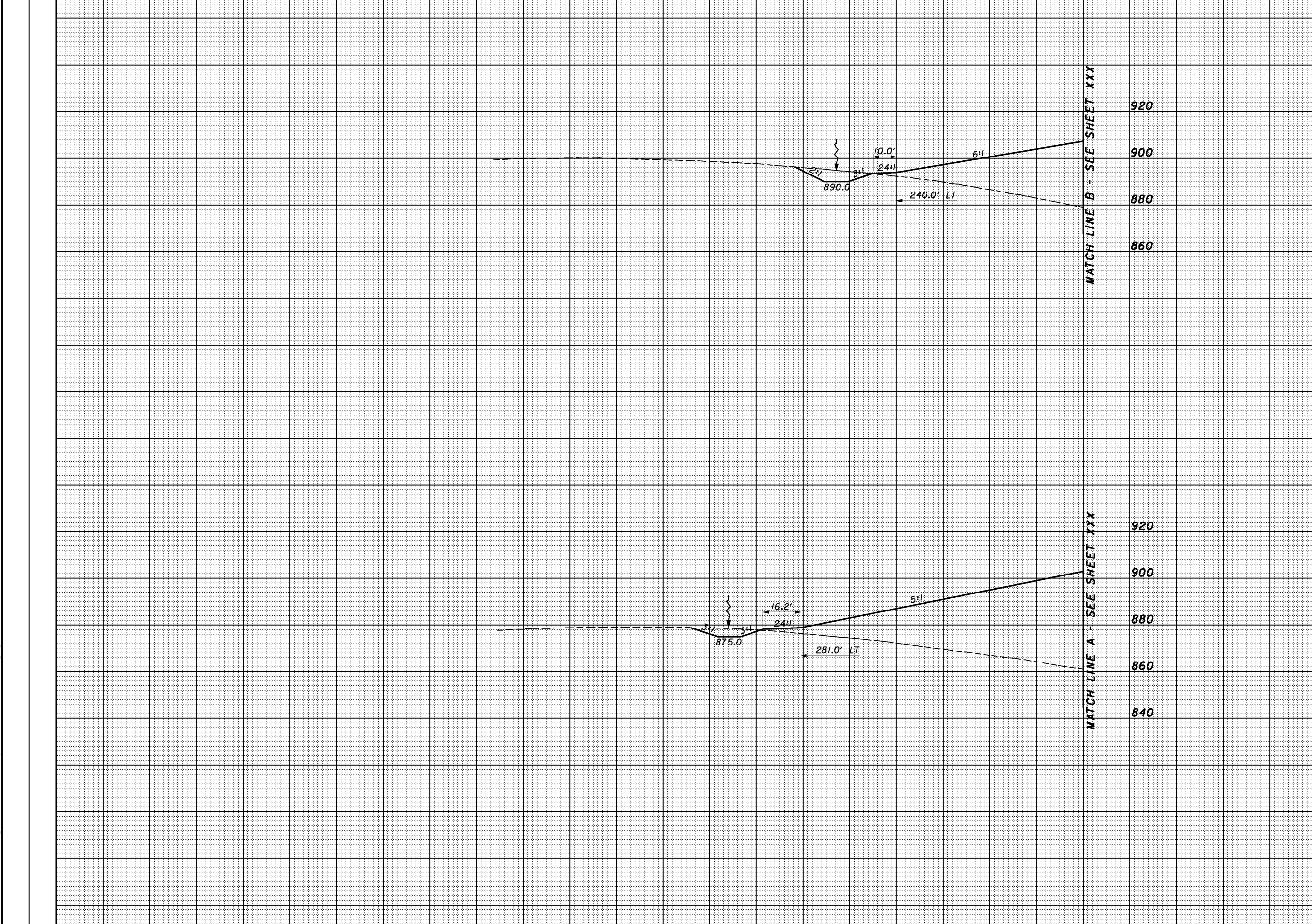
CROSS SECTIONS
 SR823 - STA. 772+50.00 TO STA. 773+00.00

SCI-823-10.13

3:05:54 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



920
900
880
860

920
900
880
860
840

SHEET TOTAL

420 400 380 360 340 320 300 280 260 240 220 200 180 160

SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 772+50.00 TO STA. 773+00.00

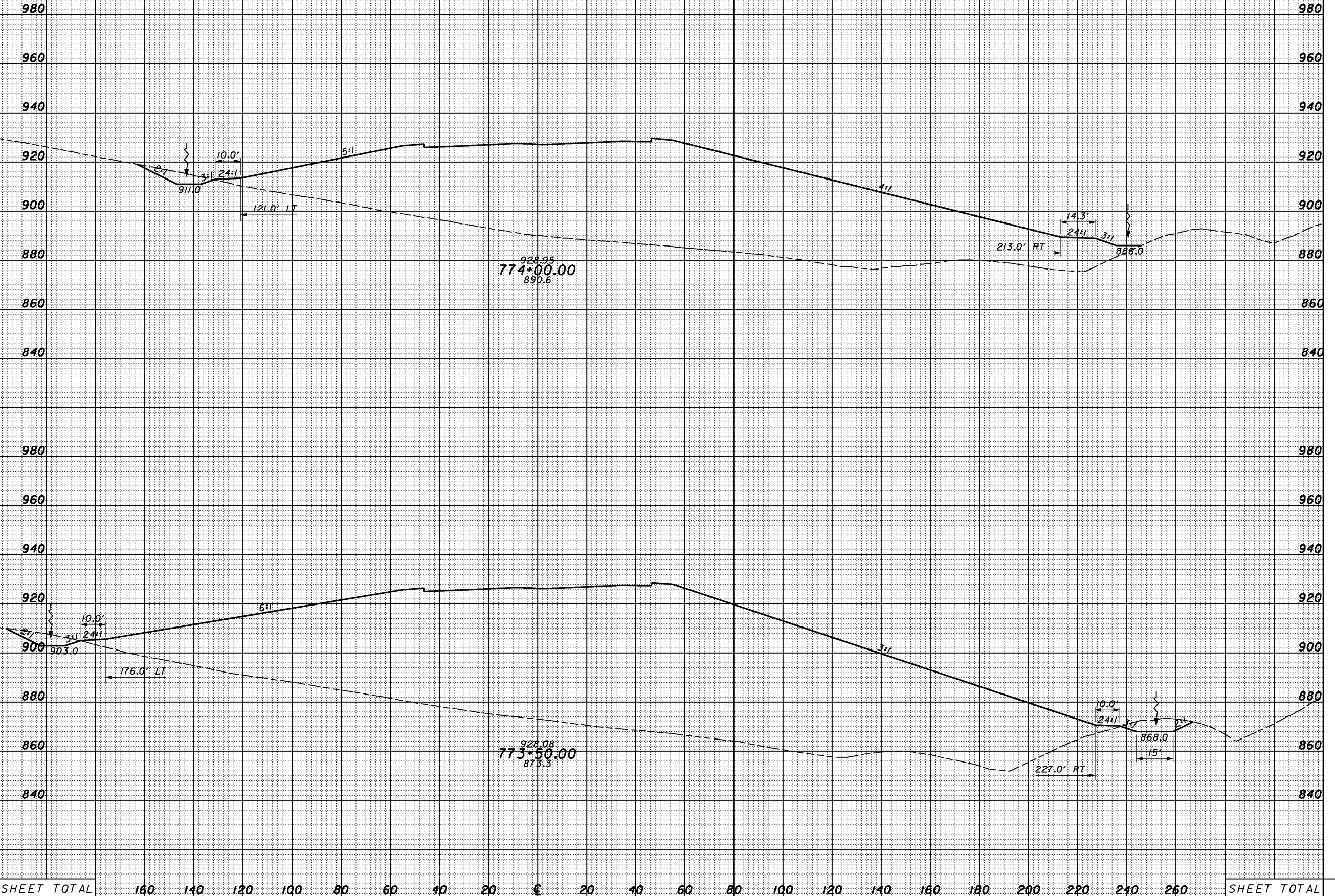
SCI-823-10.13

397

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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 SHEET TOTAL

CROSS SECTIONS
 SR823 - STA. 773+50.00 TO STA. 774+00.00

SCI-823-10.13

3:18:50 PM 1/28/2008 g:\co03\0064\road\phase 2\79977x_s-r823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



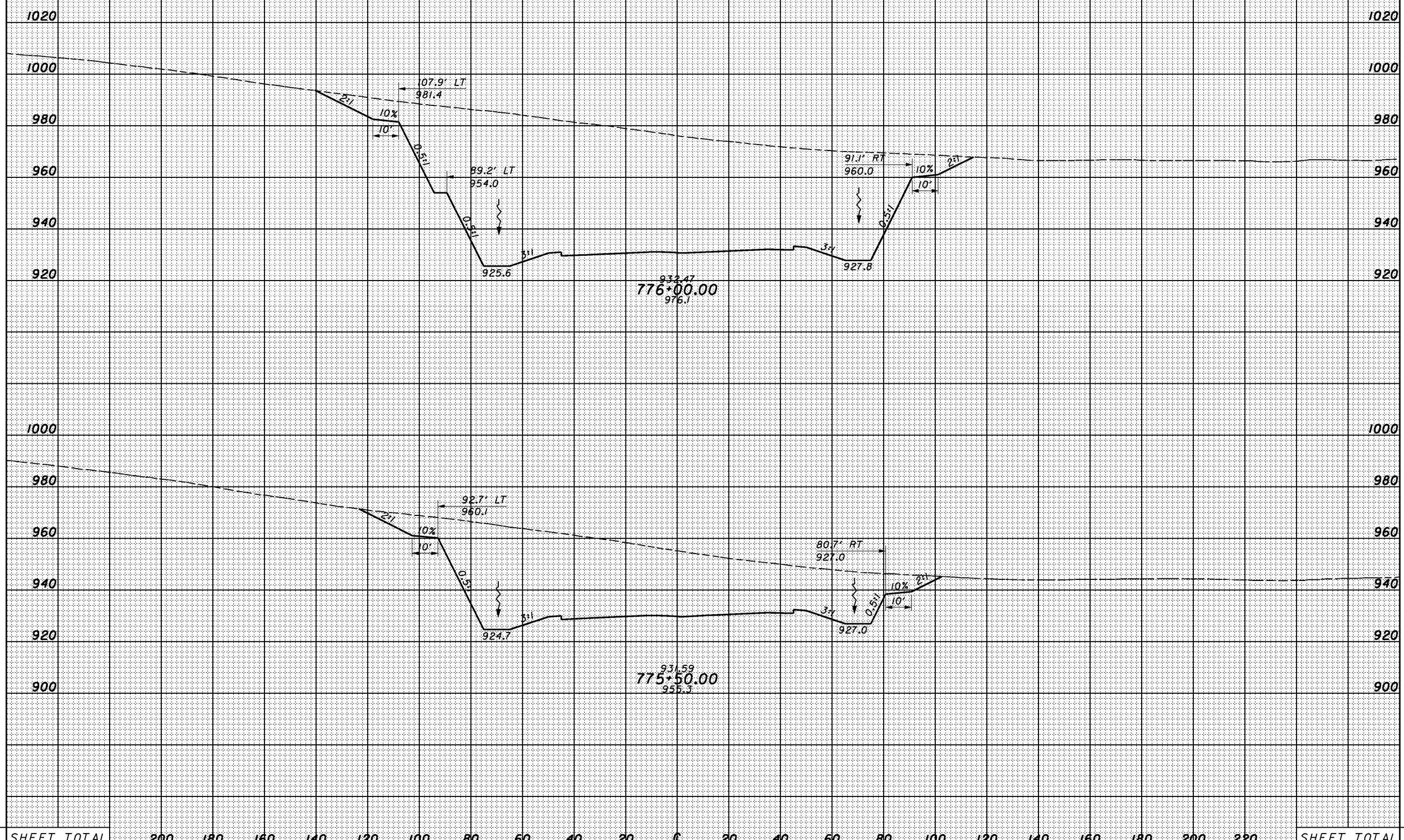
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
-------------	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-------------

CROSS SECTIONS
 SR823 - STA. 774+50.00 TO STA. 775+00.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

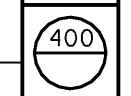
END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
 SR823 - STA. 775+50.00 TO STA. 776+00.00

SCI-823-10.13

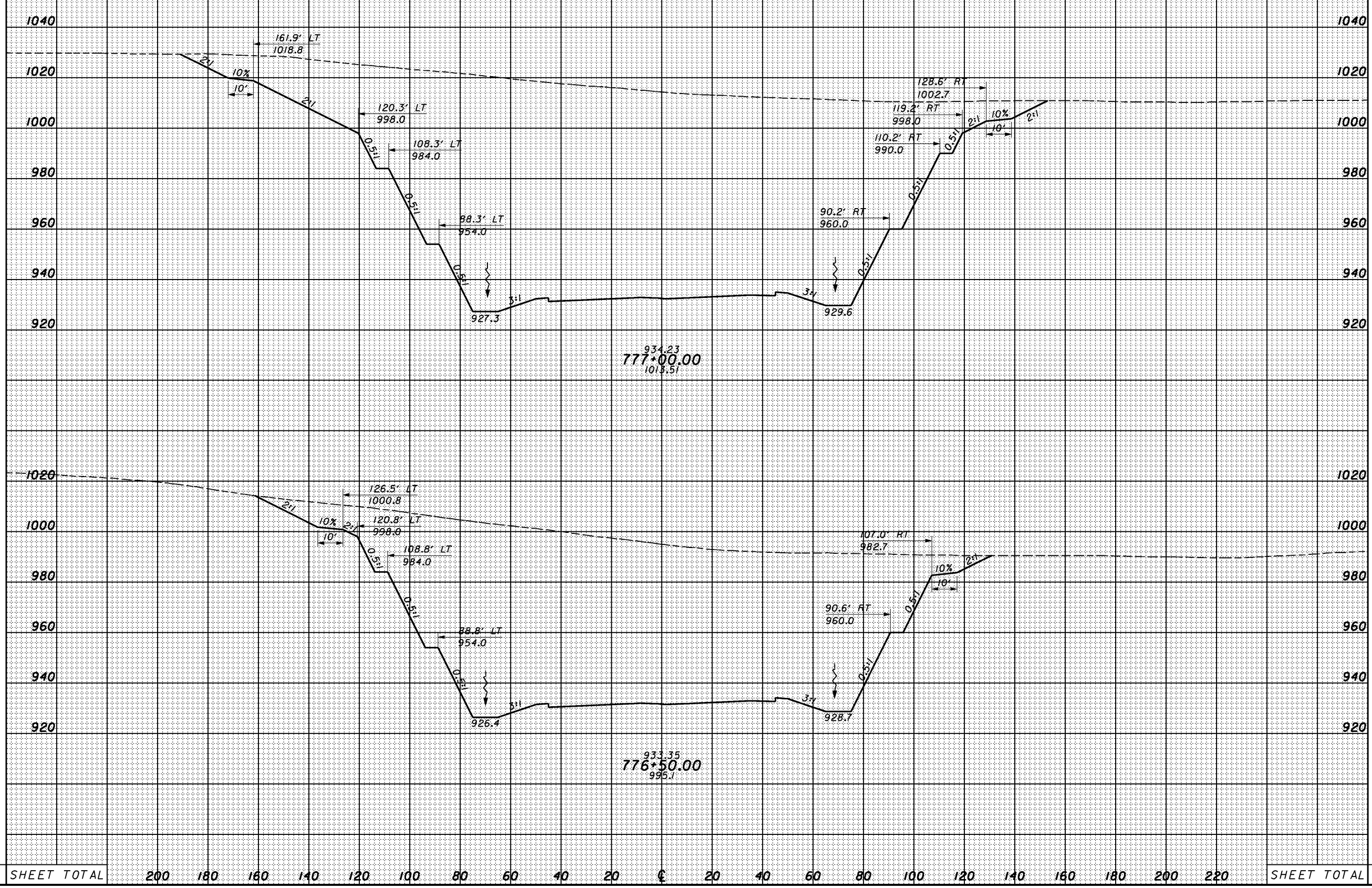


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SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:05:52 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_sr823.dgn

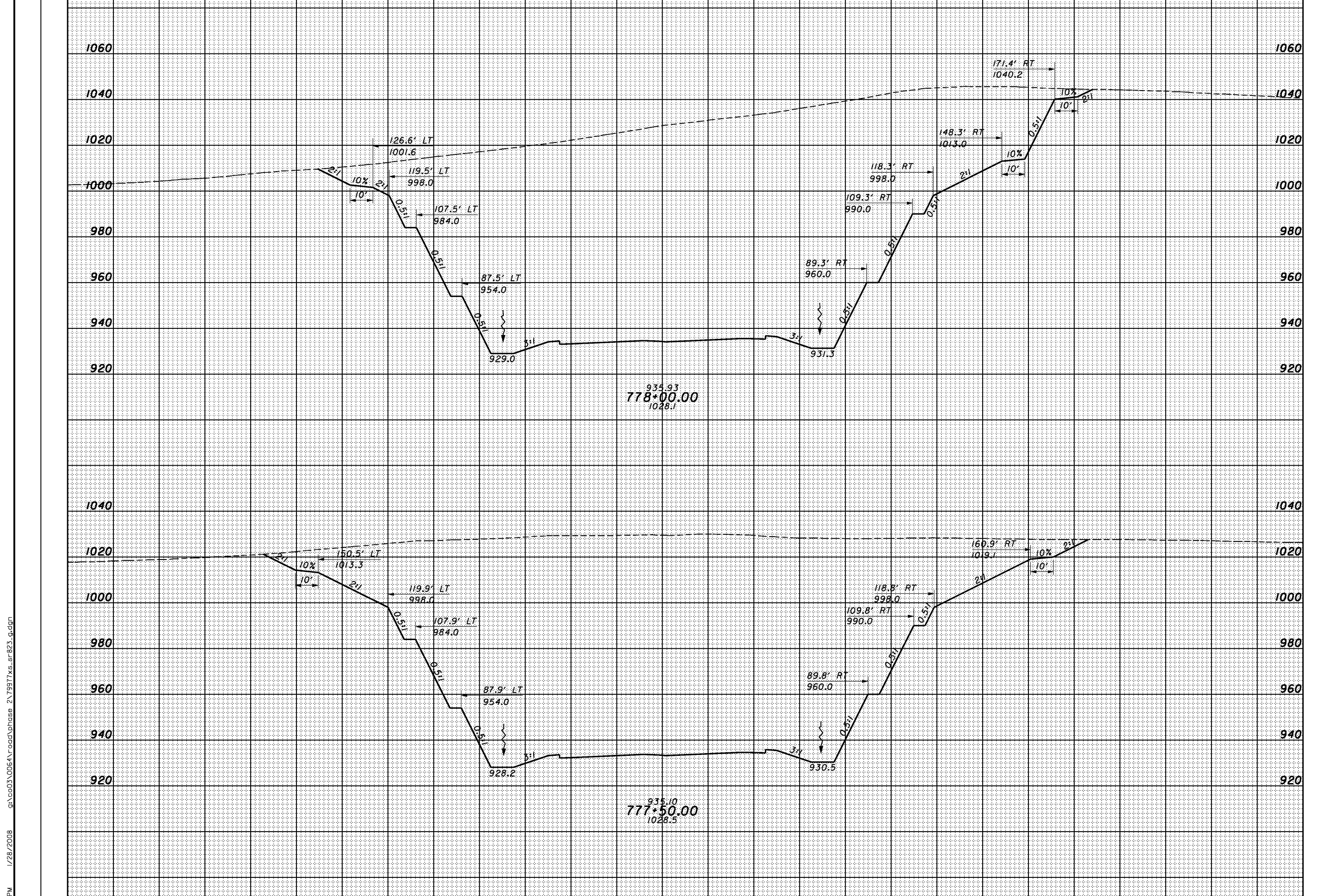


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS
 SR823 - STA. 776+50.00 TO STA. 777+00.00
 SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
SR823 - STA. 777+50.00 TO STA. 778+00.00

SCI-823-10.13

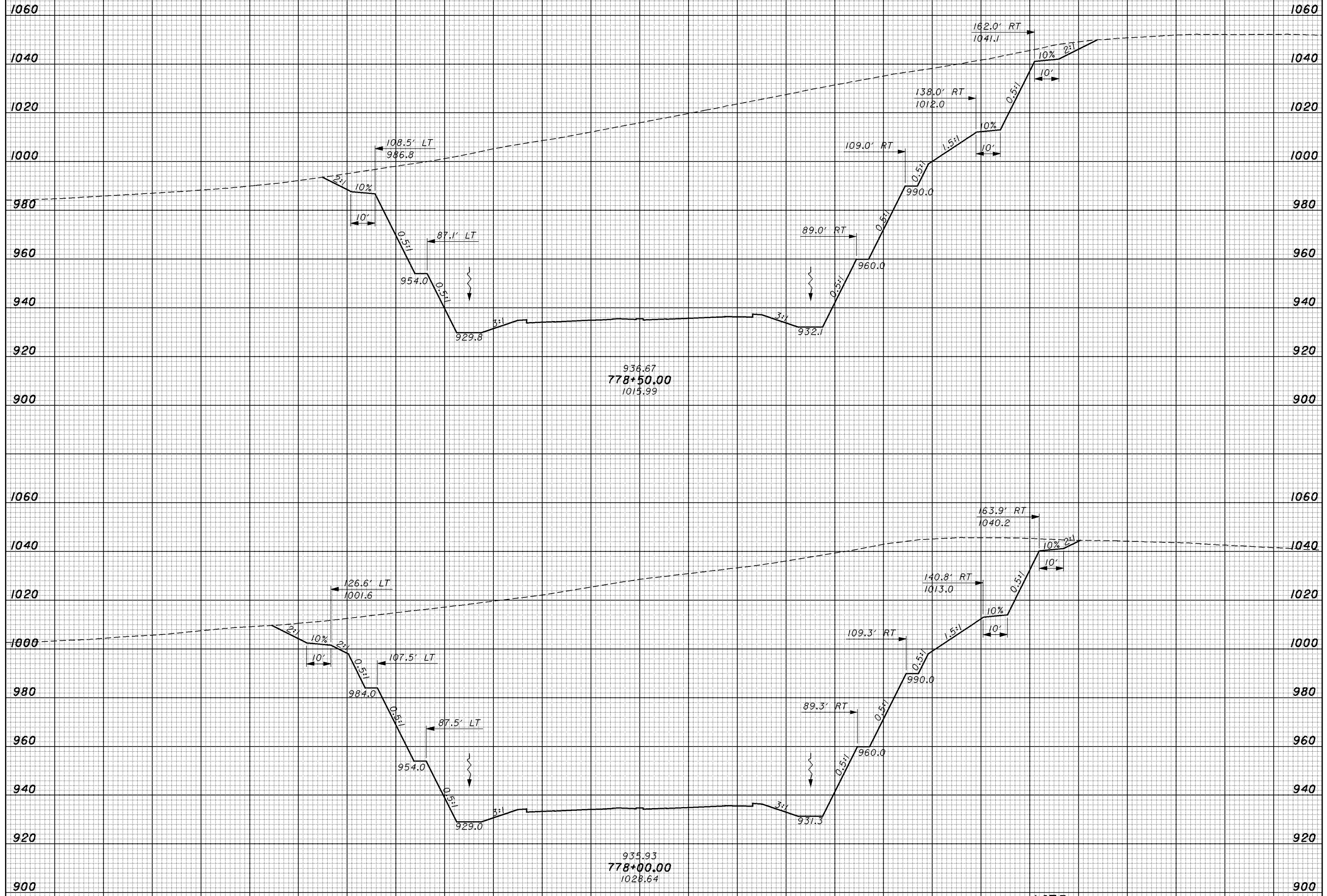
401a

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SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 8:37 AM
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 melben 1945xs00_ch.dgn

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
 MME
 CHECKED
 ADW



NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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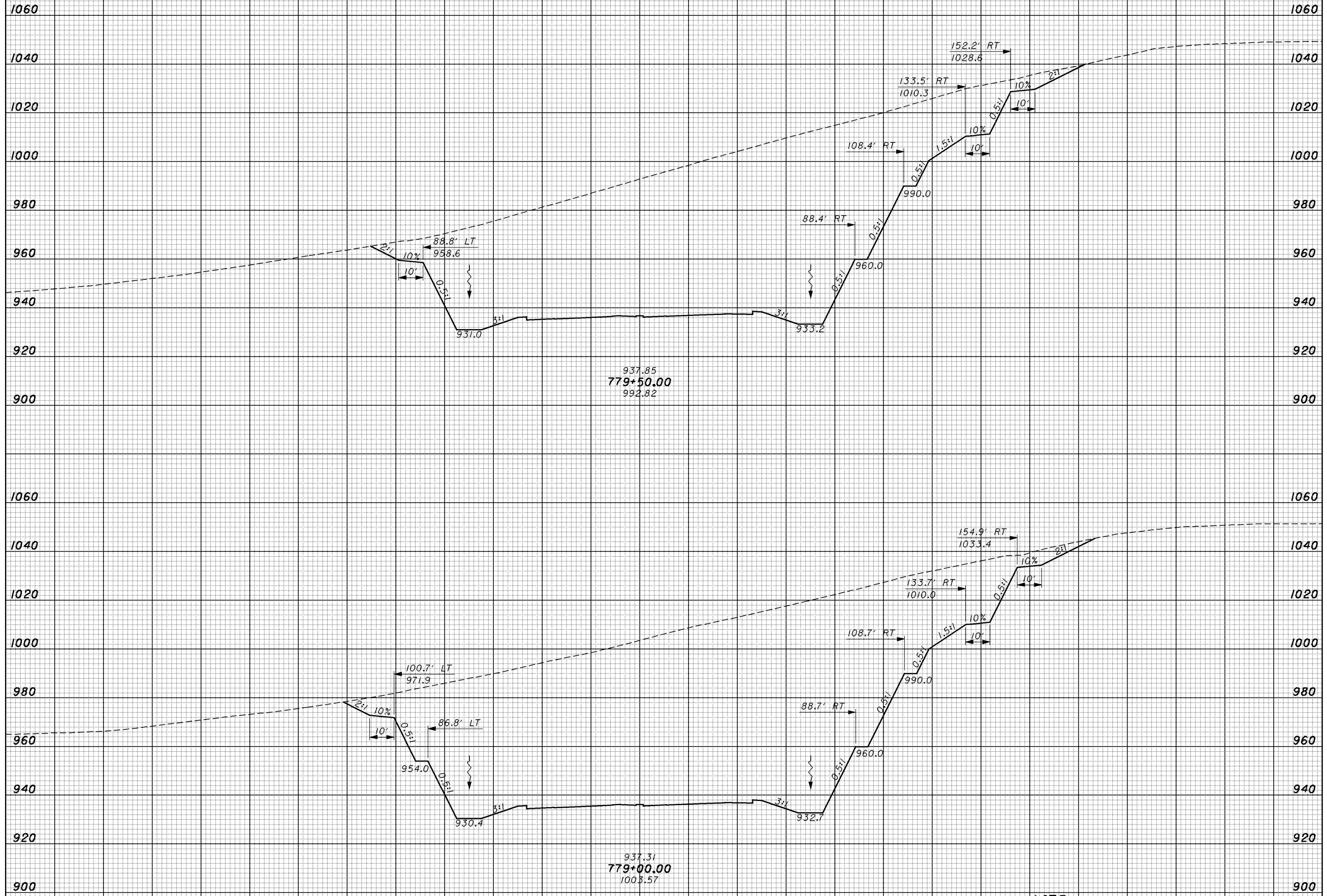
**CROSS SECTIONS - SR 823
 STA. 778+00.00 TO STA. 778+50.00**

SCI-823-10.13

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 8:37 AM
 \\aries\plansets-400_sci823_half.pen
 meiben 1945xs002_ch.dgn

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
 MME
 CHECKED
 ADW



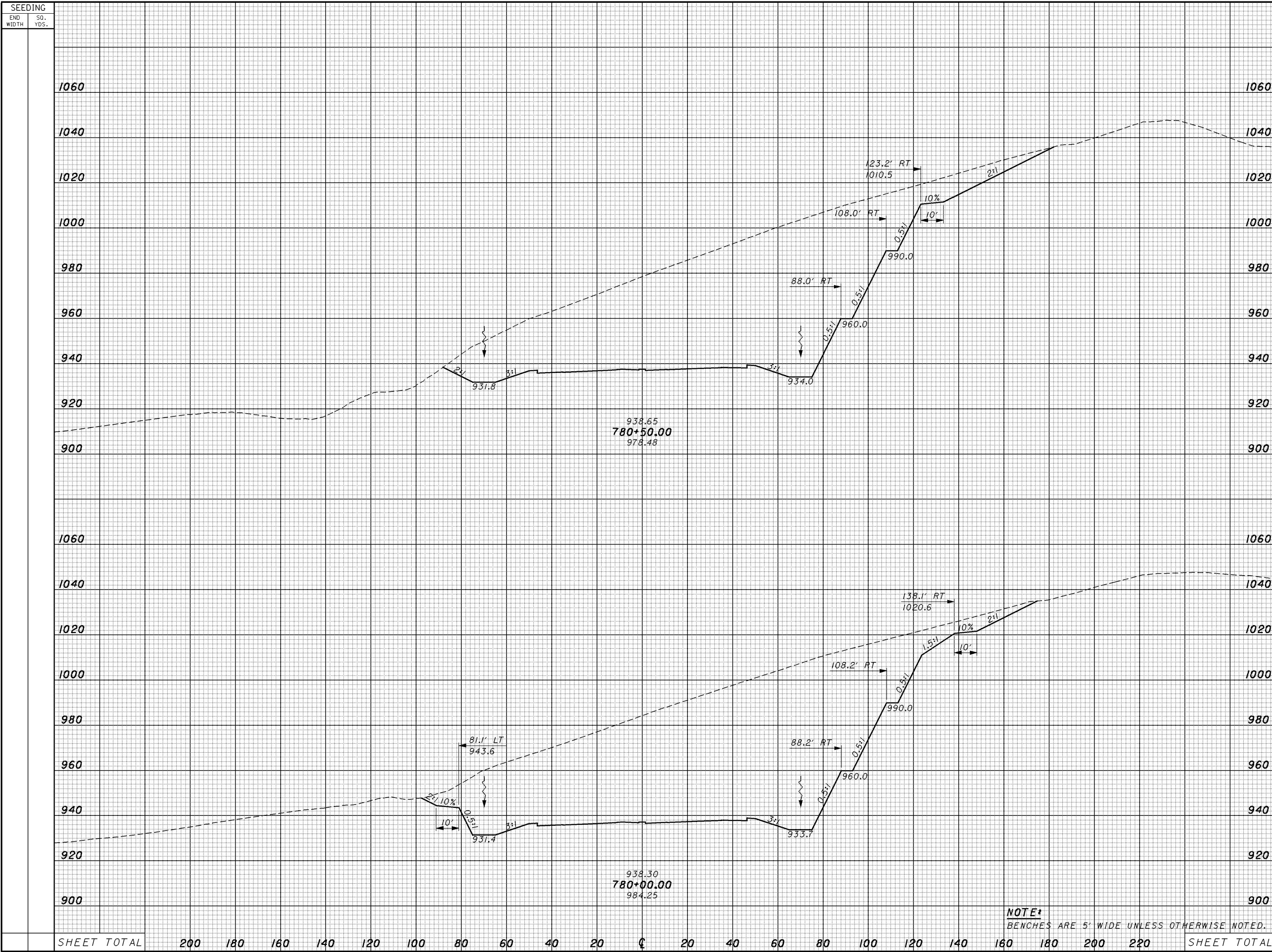
NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS - SR 823
STA. 779+00.00 TO STA. 779+50.00

SCI-823-10.13

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 meiben 1945xs003_ch.dgn



SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	MME	ADW
1060							
1040							
1020							
1000							
980							
960							
940							
920							
900							
1060							
1040							
1020							
1000							
980							
960							
940							
920							
900							
SHEET TOTAL		200	180	160	140	120	100
		80	60	40	20	0	20
		40	20	0	20	40	60
		80	100	120	140	160	180
		200	220				
SHEET TOTAL							

NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR 823
 STA. 780+00.00 TO STA. 780+50.00

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

11/23/2007 8:38 AM
\\varies\plansets-400_sci823_half.pen
meiben 1945xs004_ch.dgn



NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

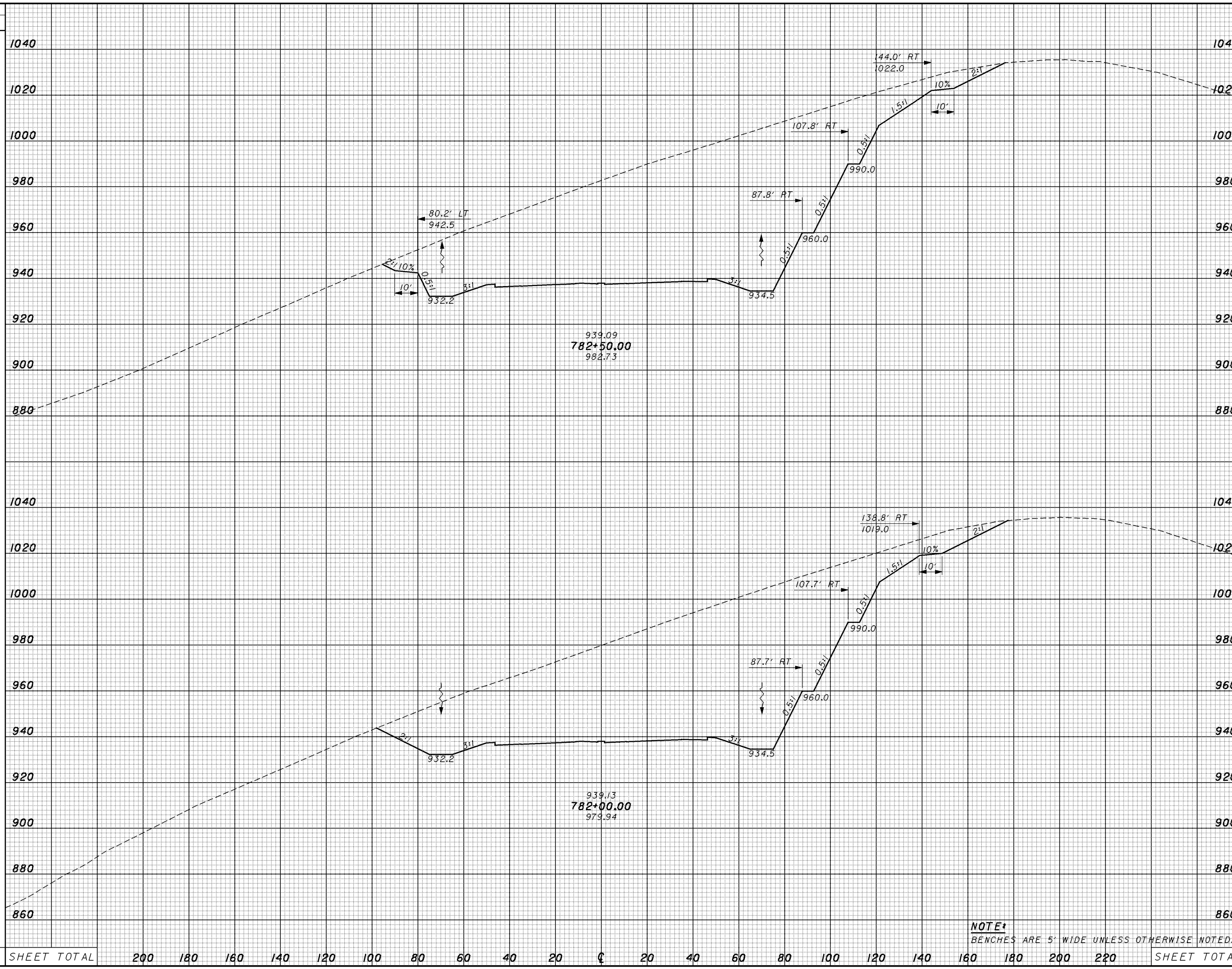
CROSS SECTIONS - SR 823
STA. 781+00.00 TO STA. 781+50.00

SCI-823-10.13

405

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 8:38 AM
 \\aries\PlanSets-400_sci823_half.pen
 m\ben 19415xs005_ch.dgn

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MME	ADW

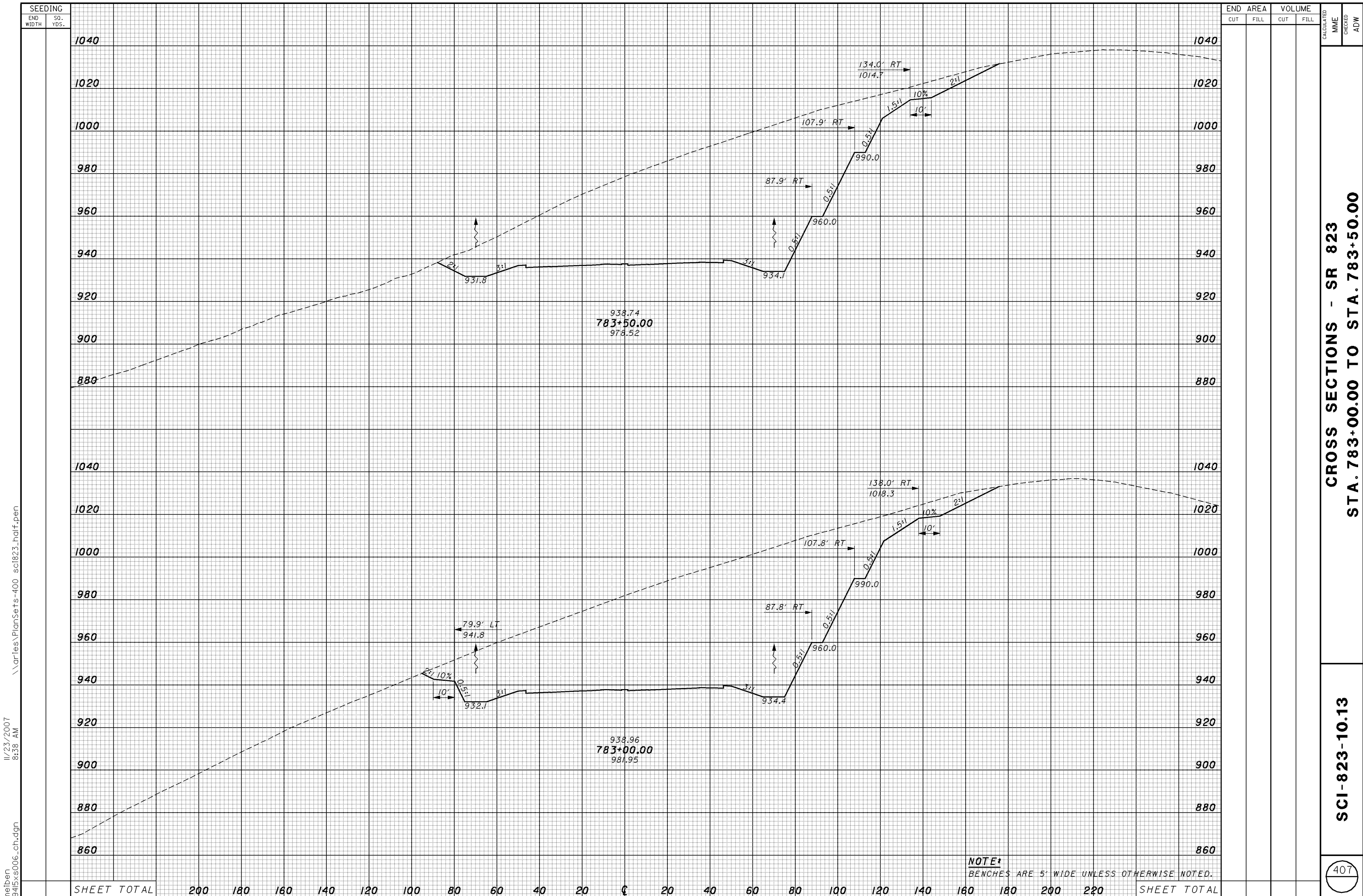


NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS - SR 823
 STA. 782+00.00 TO STA. 782+50.00

SCI-823-10.13



SEEDING	
END WIDTH	SO. YDS.
1040	
1020	
1000	
980	
960	
940	
920	
900	
880	
1040	
1020	
1000	
980	
960	
940	
920	
900	
880	
860	
SHEET TOTAL	200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220

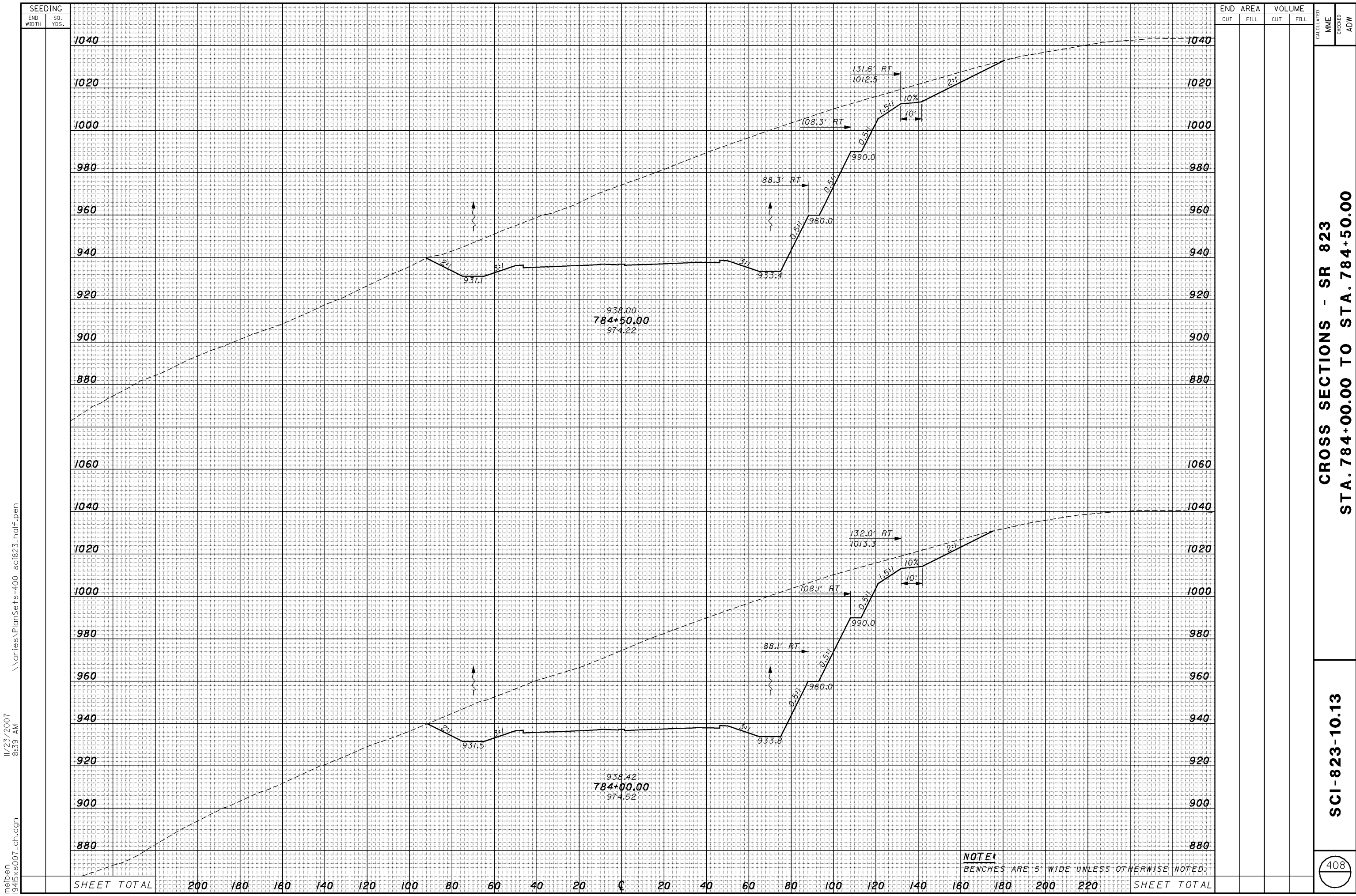
END AREA		VOLUME		CALCULATED	MME	CHECKED	ADW
CUT	FILL	CUT	FILL				

CROSS SECTIONS - SR 823
STA. 783+00.00 TO STA. 783+50.00

SCI-823-10.13

NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

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 melben 19415xs006_cn.dgn



11/23/2007 8:39 AM
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 melben 19415xs007_ch.dgn

SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 8:39 AM
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 m\ben 19415xs008_ch.dgn



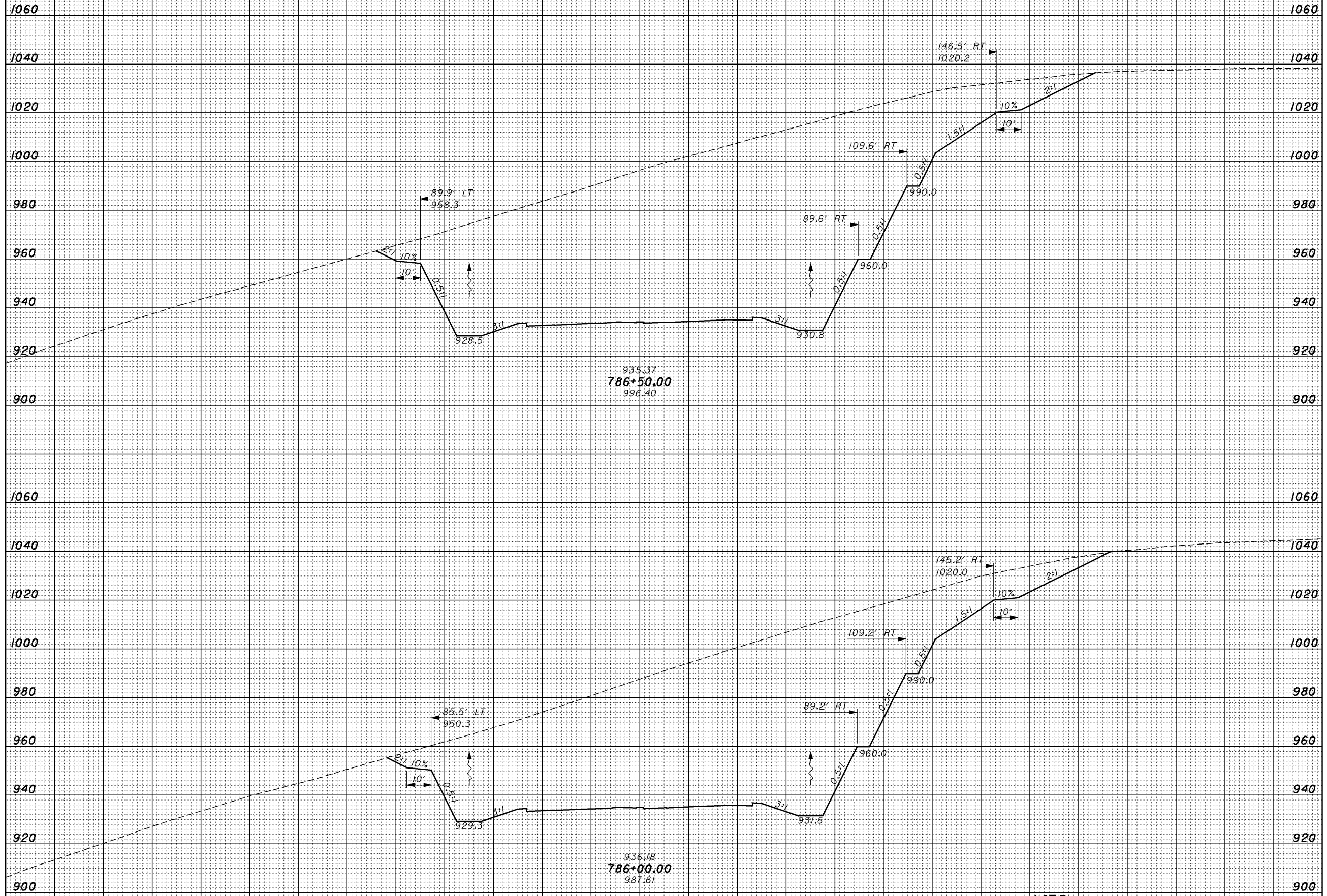
END	AREA		VOLUME	
	CUT	FILL	CUT	FILL
1060				
1040				
1020				
1000				
980				
960				
940				
920				
900				
1060				
1040				
1020				
1000				
980				
960				
940				
920				
900				
SHEET TOTAL				

CROSS SECTIONS - SR 823
 STA. 785+00.00 TO STA. 785+50.00
 SCI-823-10.13
 409

NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



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\\aries\PlanSets-400_sci823_half.pen
meiben 1945xs009_ch.dgn

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

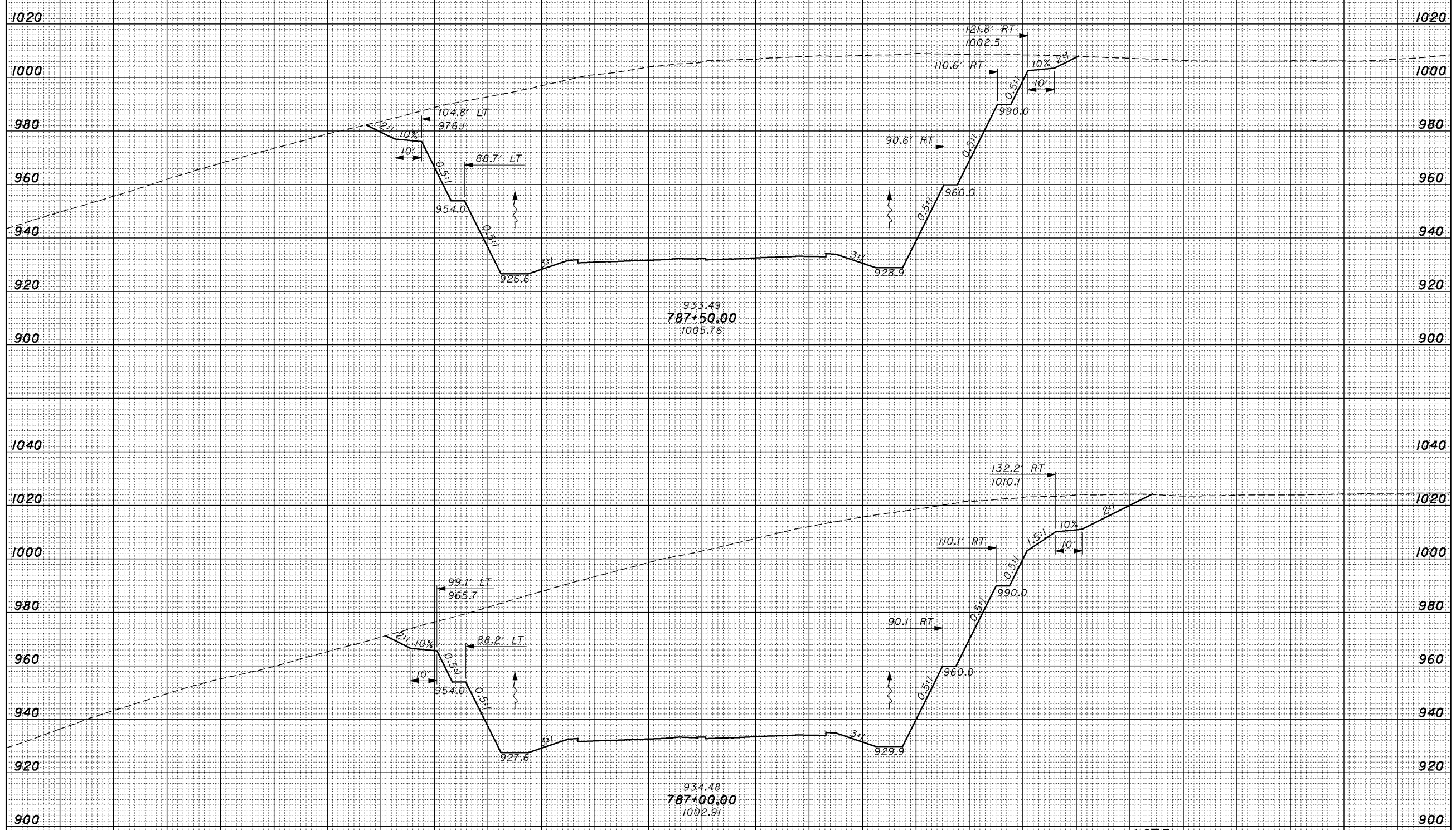
CROSS SECTIONS - SR 823
STA. 786+00.00 TO STA. 786+50.00

SCI-823-10.13

410

SEEDING
END SQ.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

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meiben 1945xs00_ch.dgn

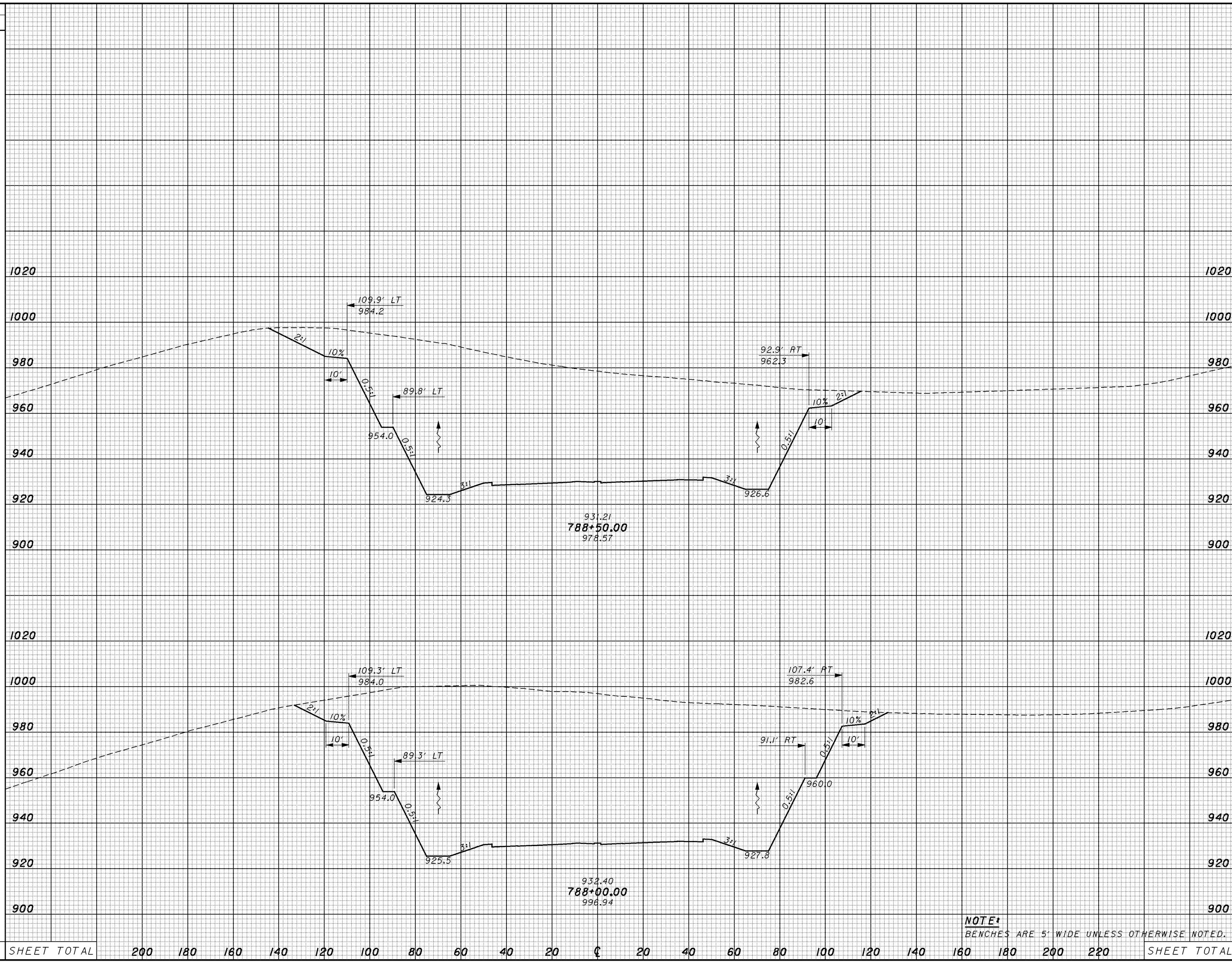
CROSS SECTIONS - SR 823
STA. 787+00.00 TO STA. 787+50.00

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		

11/23/2007 8:40 AM
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meiben 1945xs01_ch.dgn



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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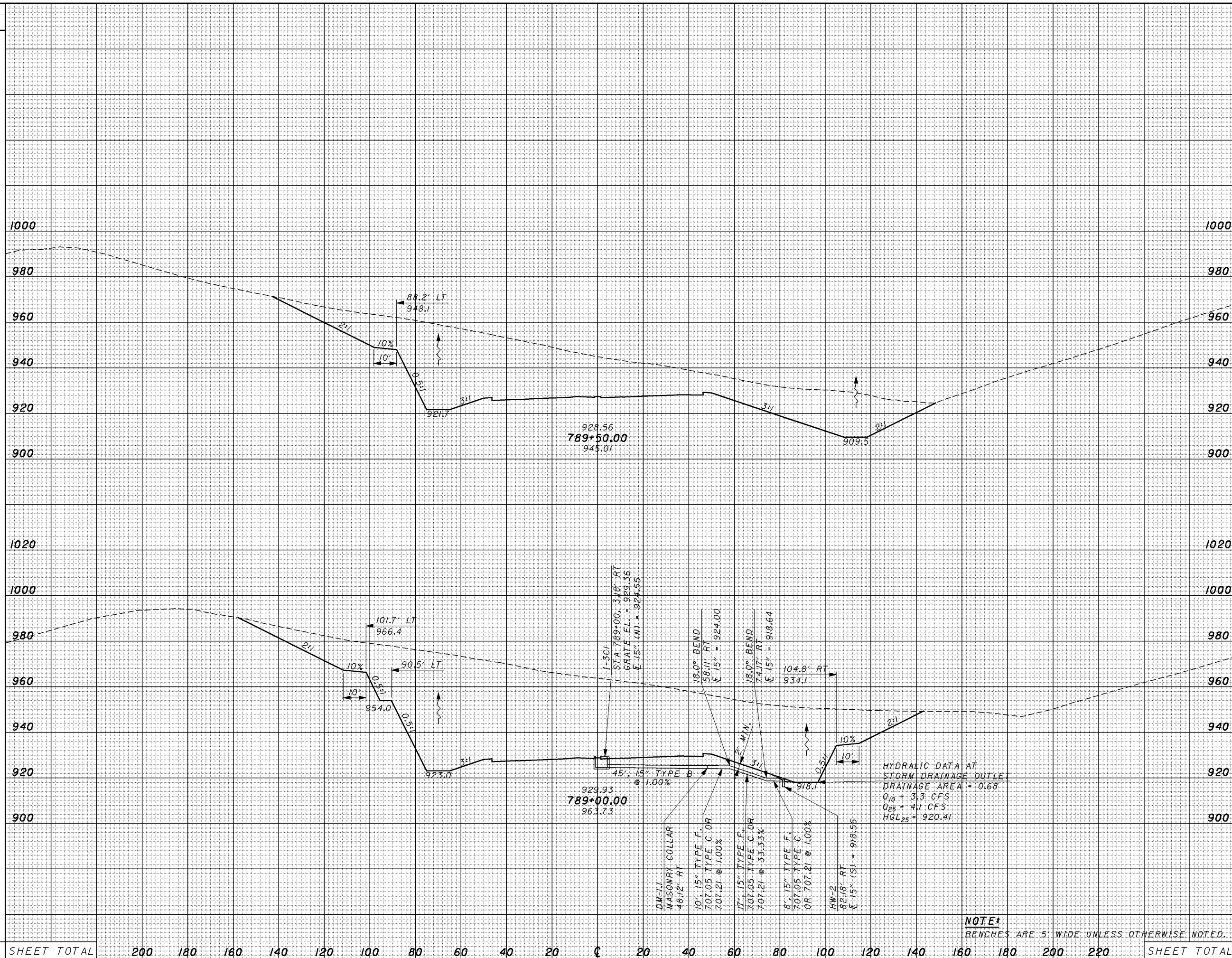
CROSS SECTIONS - SR 823
STA. 788+00.00 TO STA. 788+50.00

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

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HYDRAULIC DATA AT STORM DRAINAGE OUTLET
DRAINAGE AREA = 0.68
Q₁₀ = 3.3 CFS
Q₂₅ = 4.1 CFS
HGL₂₅ = 920.41

NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

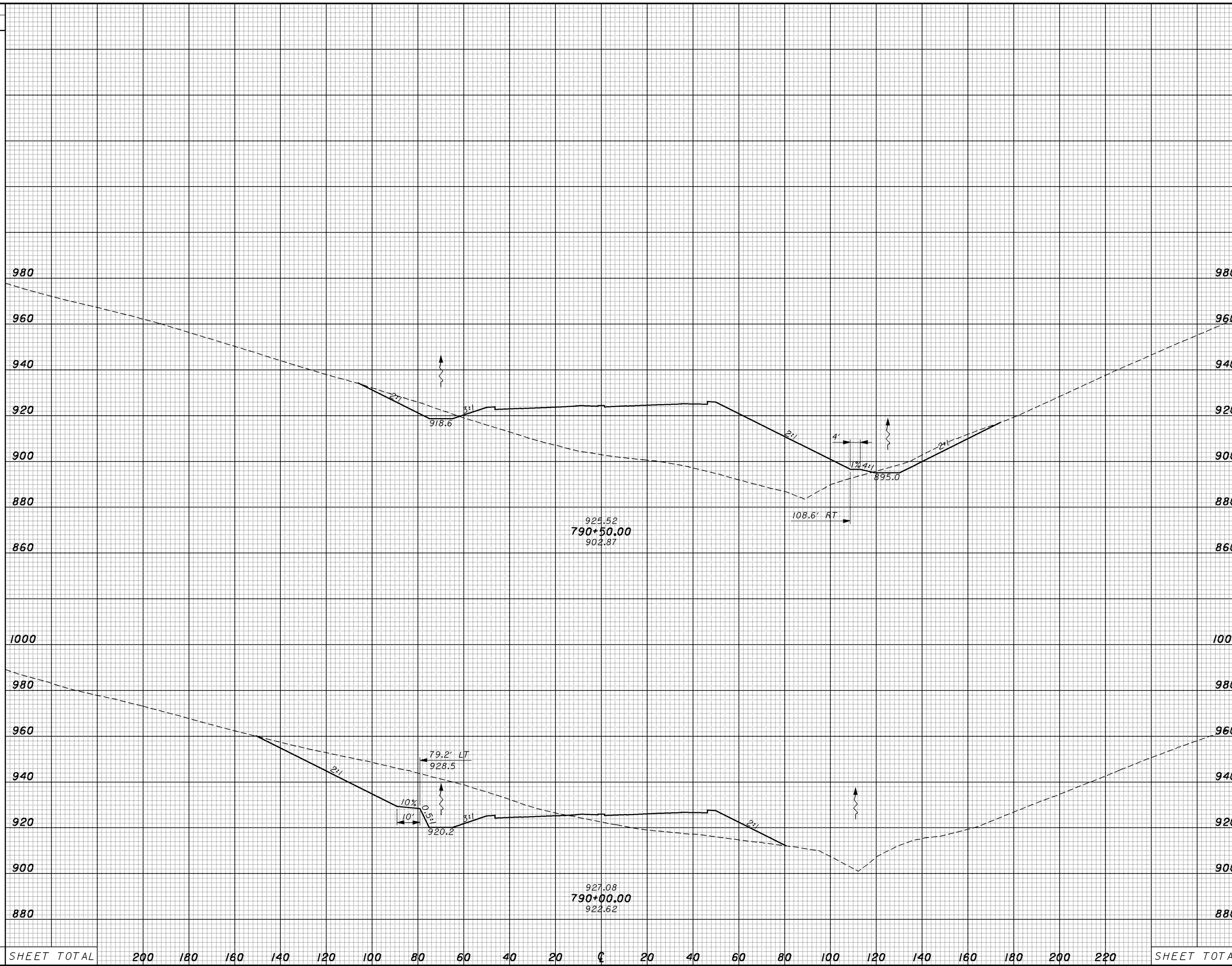
CROSS SECTIONS - SR 823
STA. 789+00.00 TO STA. 789+50.00

SCI-823-10.13

meiben
19415xs03_ch.dgn
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8:40 AM
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SEEDING
END SQ.
WIDTH YDS.

END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		

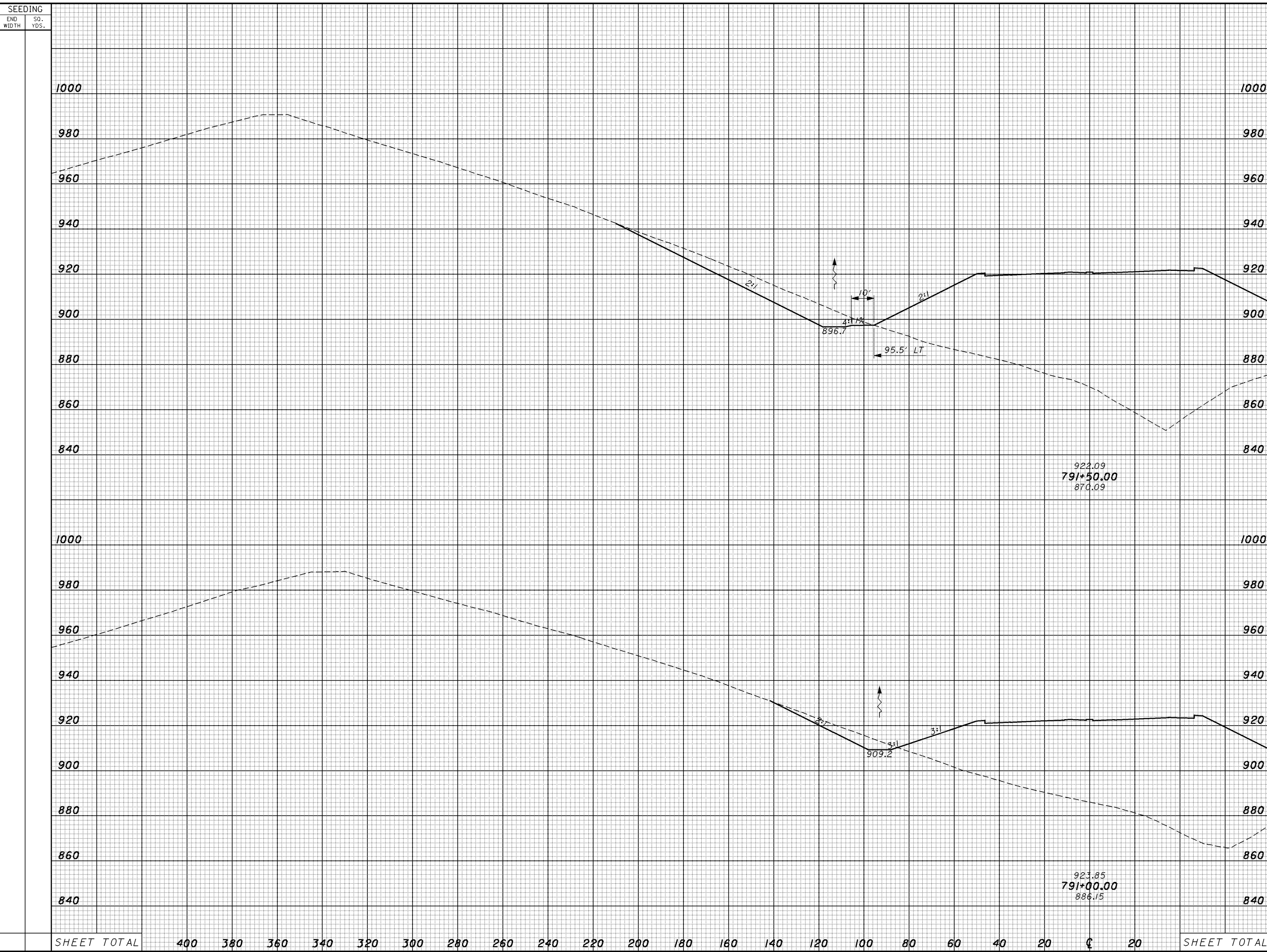


SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 CL 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

**CROSS SECTIONS - SR 823
STA. 790+00.00 TO STA. 790+50.00**

SCI-823-10.13

meiben
19415xs04_ch.dgn
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8:40 AM
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END AREA		VOLUME	
CUT	FILL	CUT	FILL

CROSS SECTIONS - SR 823
STA. 791+00.00 LT. TO STA. 791+50.00 LT.

SCI-823-10.13

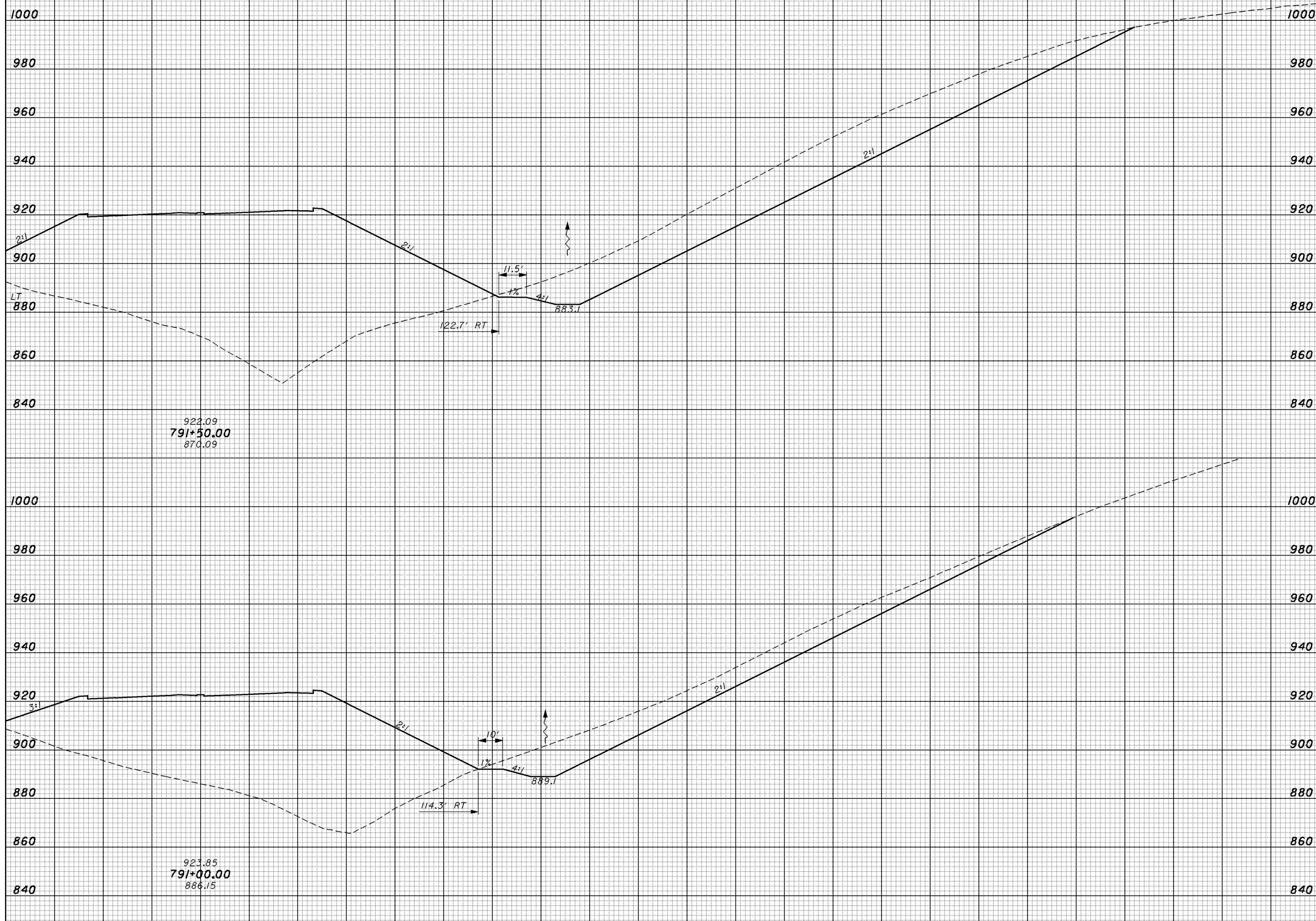
415

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SEEDING

END WIDTH	SO. YDS.
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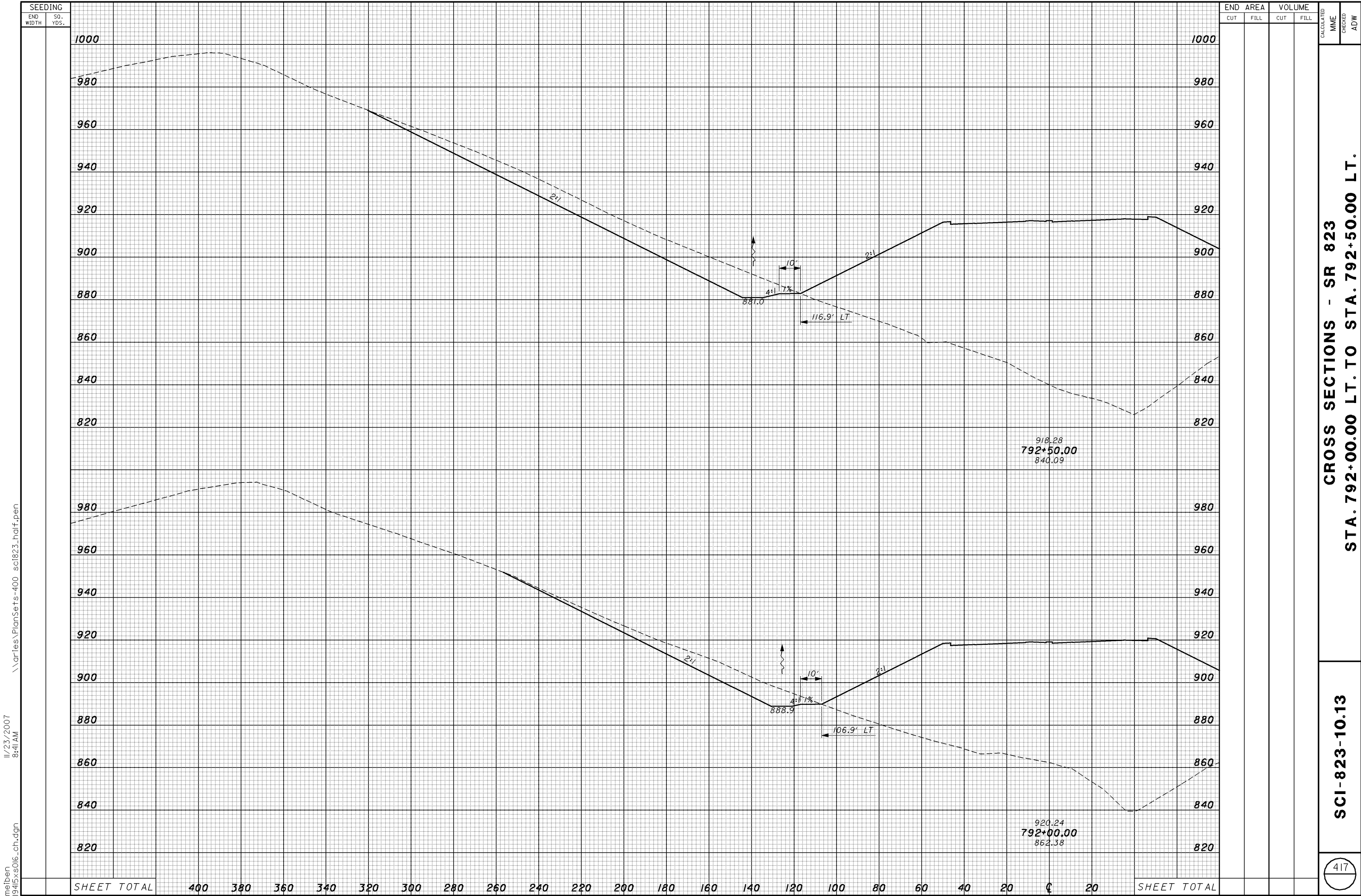
END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MME	ADW



SHEET TOTAL	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	SHEET TOTAL
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CROSS SECTIONS - SR 823
STA. 791+00.00 RT. TO STA. 791+50.00 RT.

SCI-823-10.13



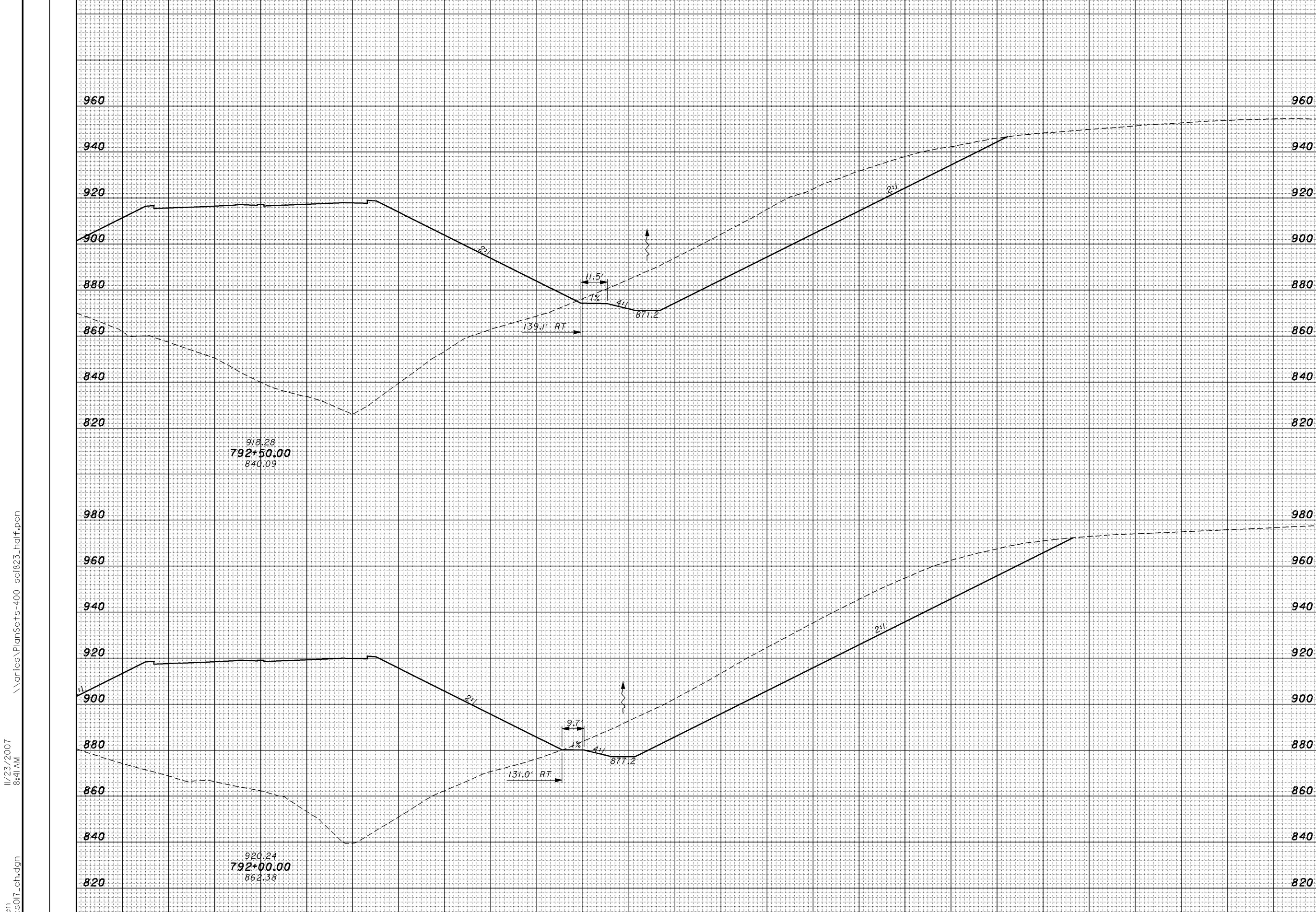
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CROSS SECTIONS - SR 823
STA. 792+00.00 LT. TO STA. 792+50.00 LT.

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MME	ADW

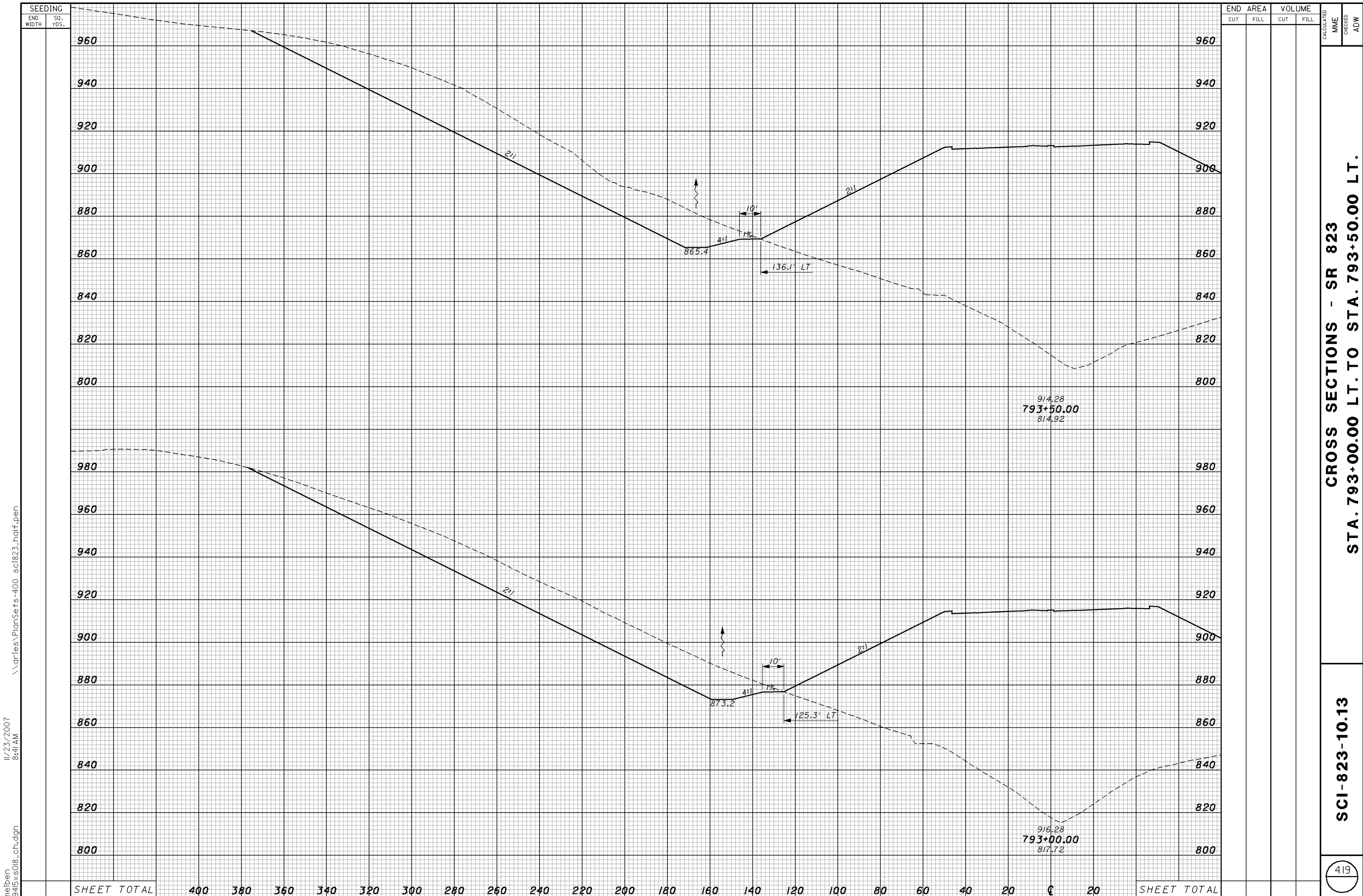


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SHEET TOTAL	20	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	SHEET TOTAL
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CROSS SECTIONS - SR 823
STA. 792+00.00 RT. TO STA. 792+50.00 RT.

SCI-823-10.13



SEEDING		END WIDTH	SQ. YDS.
CUT	FILL		
		400	
		380	
		360	
		340	
		320	
		300	
		280	
		260	
		240	
		220	
		200	
		180	
		160	
		140	
		120	
		100	
		80	
		60	
		40	
		20	
		0	
		20	
		40	
		60	
		80	
		100	
		120	
		140	
		160	
		180	
		200	
		220	
		240	
		260	
		280	
		300	
		320	
		340	
		360	
		380	
		400	

END CUT	AREA FILL	VOLUME		CALCULATED	CHECKED
		CUT	FILL		
				MME	ADW
CROSS SECTIONS - SR 823 STA. 793+00.00 LT. TO STA. 793+50.00 LT.					
SCI-823-10.13					
419					

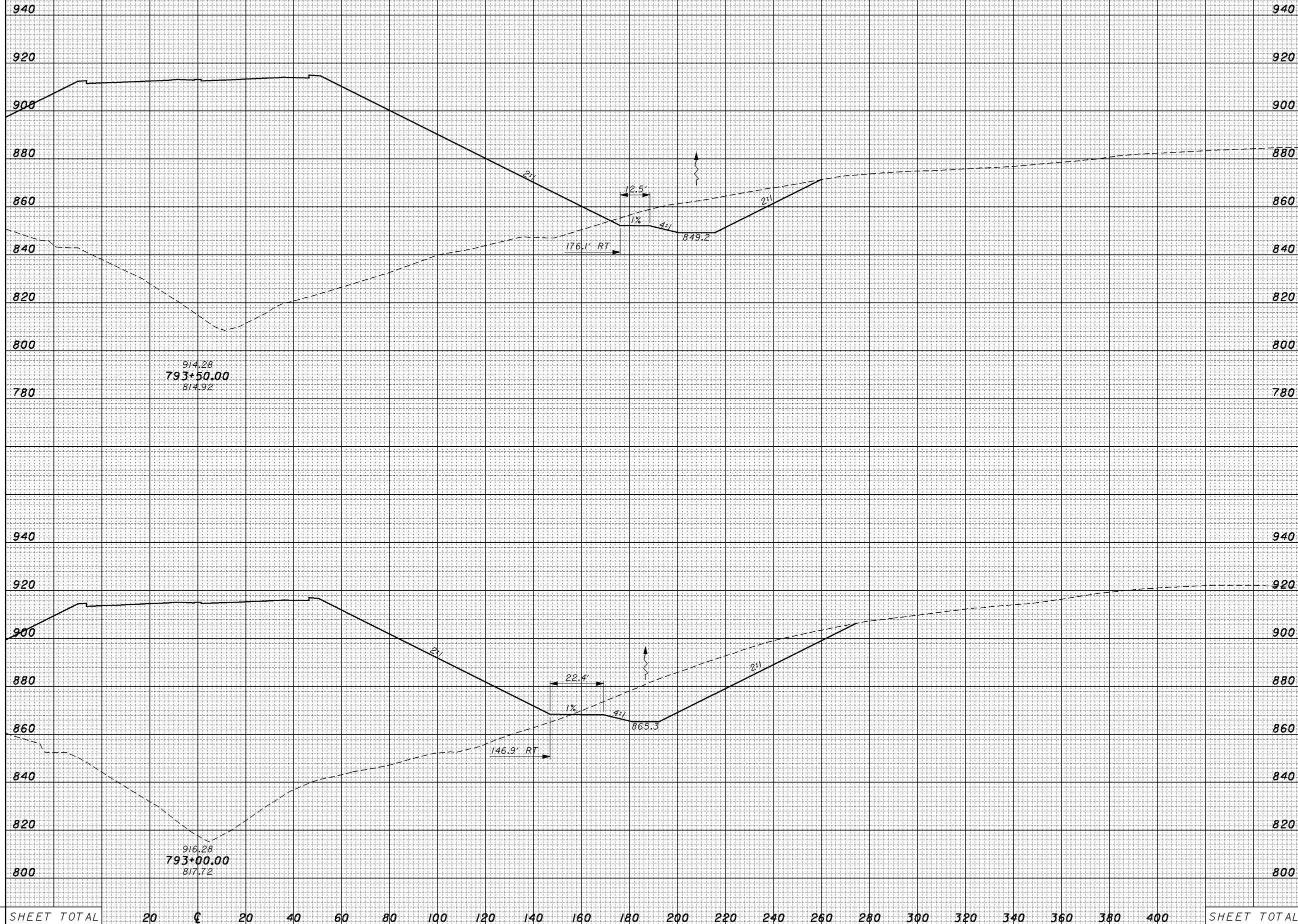
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SHEET TOTAL 400 380 360 340 320 300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 SHEET TOTAL

meiben 19415xs09_ch.dgn 11/23/2007 8:42 AM \\aries\plansets-400_sci823_half.pen

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

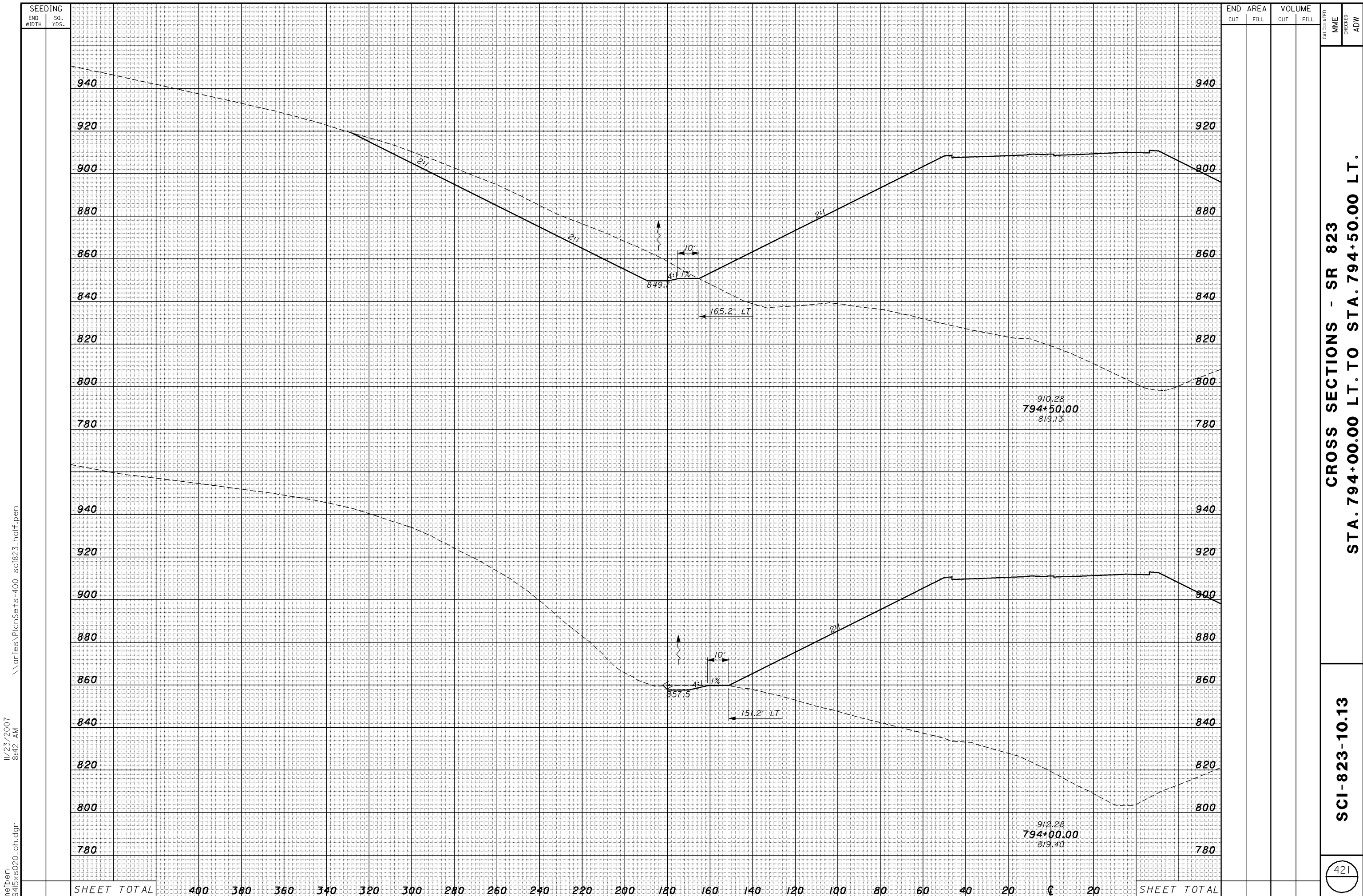


SHEET TOTAL	20	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	SHEET TOTAL
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CROSS SECTIONS - SR 823
STA. 793+00.00 RT. TO STA. 793+50.00 RT.

SCI-823-10.13

420



SEEDING

END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MME
CHECKED
ADW

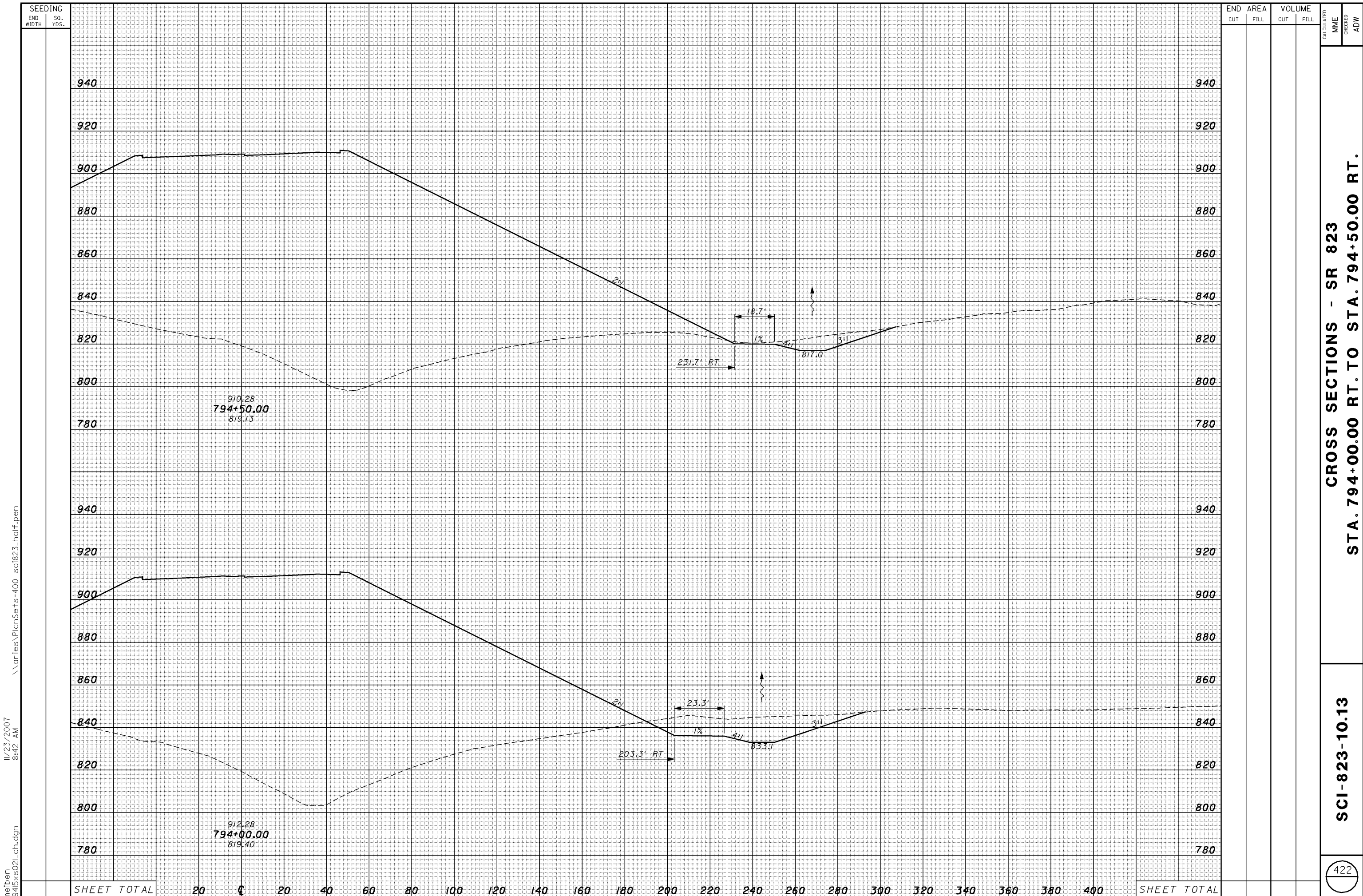
SHEET TOTAL	400	380	360	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	SHEET TOTAL
-------------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	-------------

CROSS SECTIONS - SR 823
STA. 794+00.00 LT. TO STA. 794+50.00 LT.

SCI-823-10.13

11/23/2007 8:42 AM \\aries\PlanSets-400_sci823_half.pen

meiben 1945xs020_ch.dgn



SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

910.28
794+50.00
819.13

912.28
794+00.00
819.40

CROSS SECTIONS - SR 823
STA. 794+00.00 RT. TO STA. 794+50.00 RT.

SCI-823-10.13

422

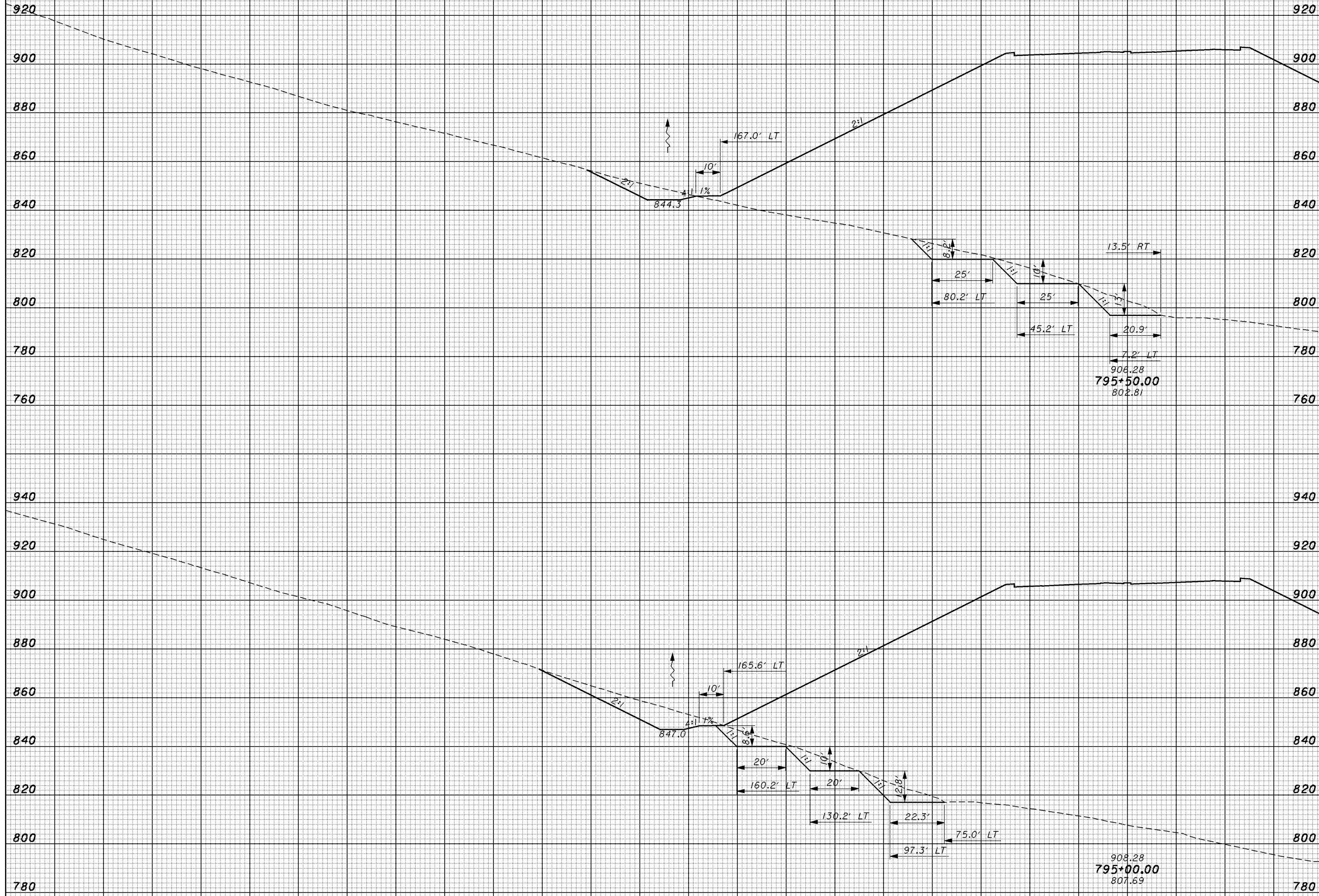
meiben 11/23/2007 8:42 AM \\aries\PlanSets-400_sci823_half.pen 1945xs02_ch.dgn

SHEET TOTAL 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 SHEET TOTAL

meiben 1/23/2007 8:42 AM \\aries\PlanSets-400_sci823_half.pen

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



SHEET TOTAL	400	380	360	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	SHEET TOTAL
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CROSS SECTIONS - SR 823
STA. 795+00.00 LT. TO STA. 795+50.00 LT.

SCI-823-10.13

meiben 11/23/2007 8:43 AM \\aries\plansets-400_sci823_half.pen

SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		



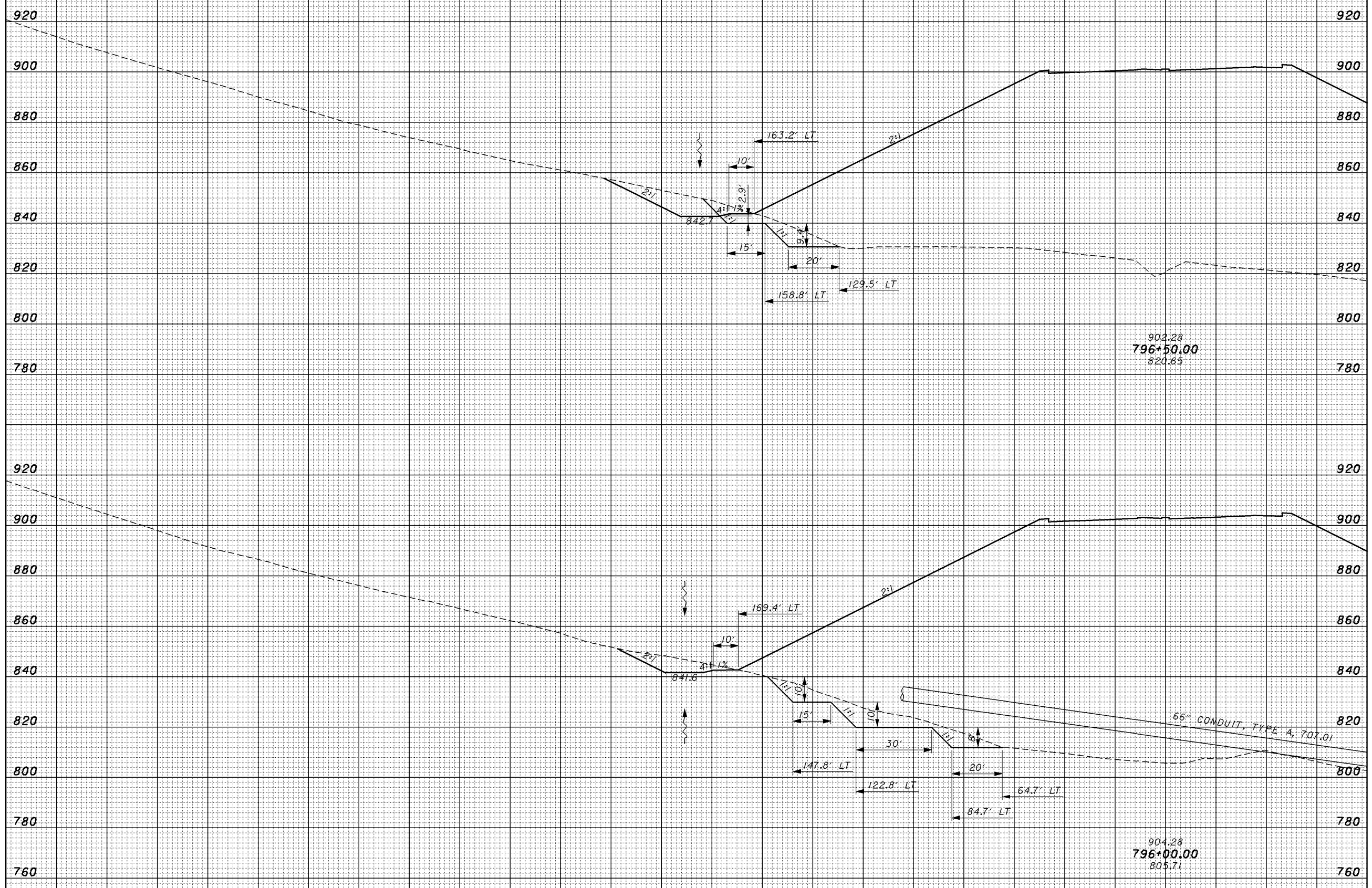
CROSS SECTIONS - SR 823
 STA. 795+00.00 RT. TO STA. 795+50.00 RT.

SCI-823-10.13

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 8:43 AM
 \\aries\plansets-400_sci823_half.pen
 meiben 1945xs024_ch.dgn

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MME	ADW



902.28
 796+50.00
 820.65

904.28
 796+00.00
 805.71

66" CONDUIT, TYPE A, 707.01

SHEET TOTAL	400	380	360	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	SHEET TOTAL
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CROSS SECTIONS - SR 823
 STA. 796+00.00 LT. TO STA. 796+50.00 LT.

SCI-823-10.13

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 8:43 AM
 \\aries\PlanSets-400_sci823_half.pen
 meiben 1945xs025_ch.dgn

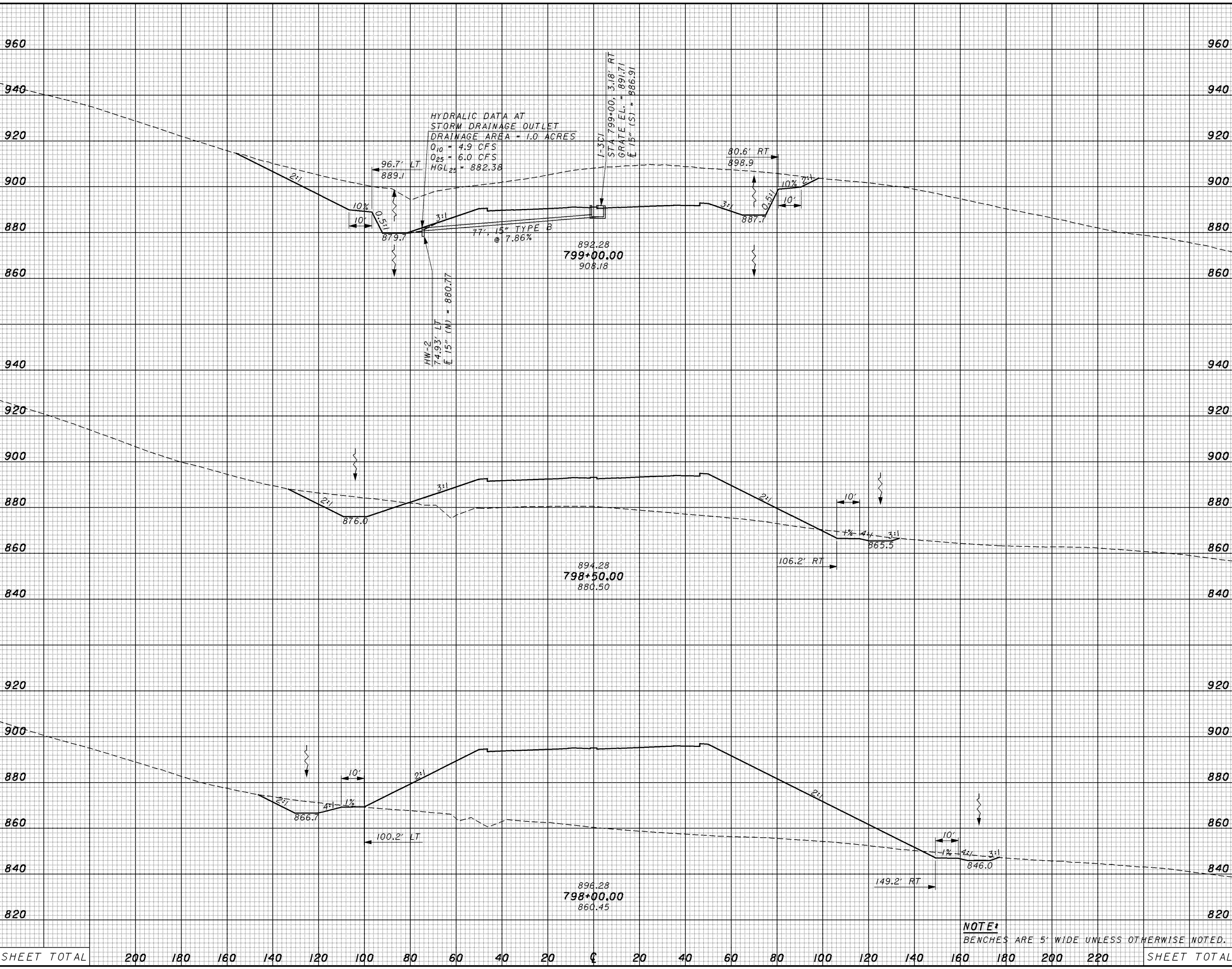


END	AREA		VOLUME		CALCULATED	CHECKED																	
	CUT	FILL	CUT	FILL			MME	ADW															
920																							
900																							
880																							
860																							
840																							
820																							
800																							
780																							
920																							
900																							
880																							
860																							
840																							
820																							
800																							
780																							
760																							
SHEET TOTAL	20	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	SHEET TOTAL

CROSS SECTIONS - SR 823
 STA. 796+00.00 RT. TO STA. 796+50.00 RT.

SCI-823-10.13

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 8:44 AM
 \\aries\plansets-400_sci823_half.pen
 mellen 1945xs027_ch.dgn



END	AREA		VOLUME	
	CUT	FILL	CUT	FILL
960				
940				
920				
900				
880				
860				
940				
920				
900				
880				
860				
840				
920				
900				
880				
860				
840				
820				
SHEET TOTAL	200	180	160	140

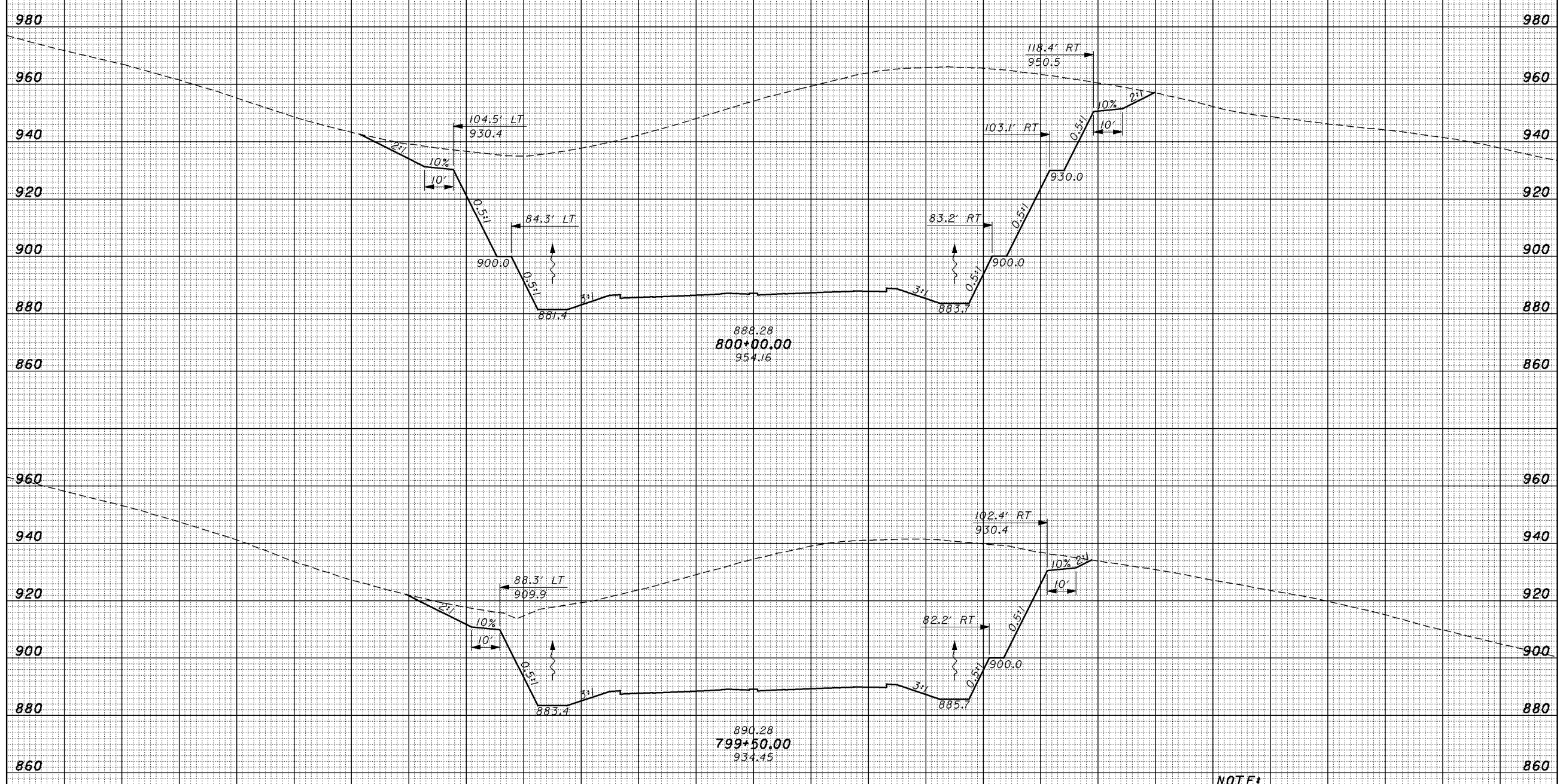
CALCULATED MME
 CHECKED ADW
CROSS SECTIONS - SR 823
STA. 798+00.00 TO STA. 799+00.00
SCI-823-10.13
 428

NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 8:44 AM
 \\aries\plansets-400_sci823_half.pen
 meiben 1945xs028_ch.dgn

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MME	ADW



NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SEEDING	END WIDTH	SQ. YDS.	CROSS SECTIONS																SHEET TOTAL						
			200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	

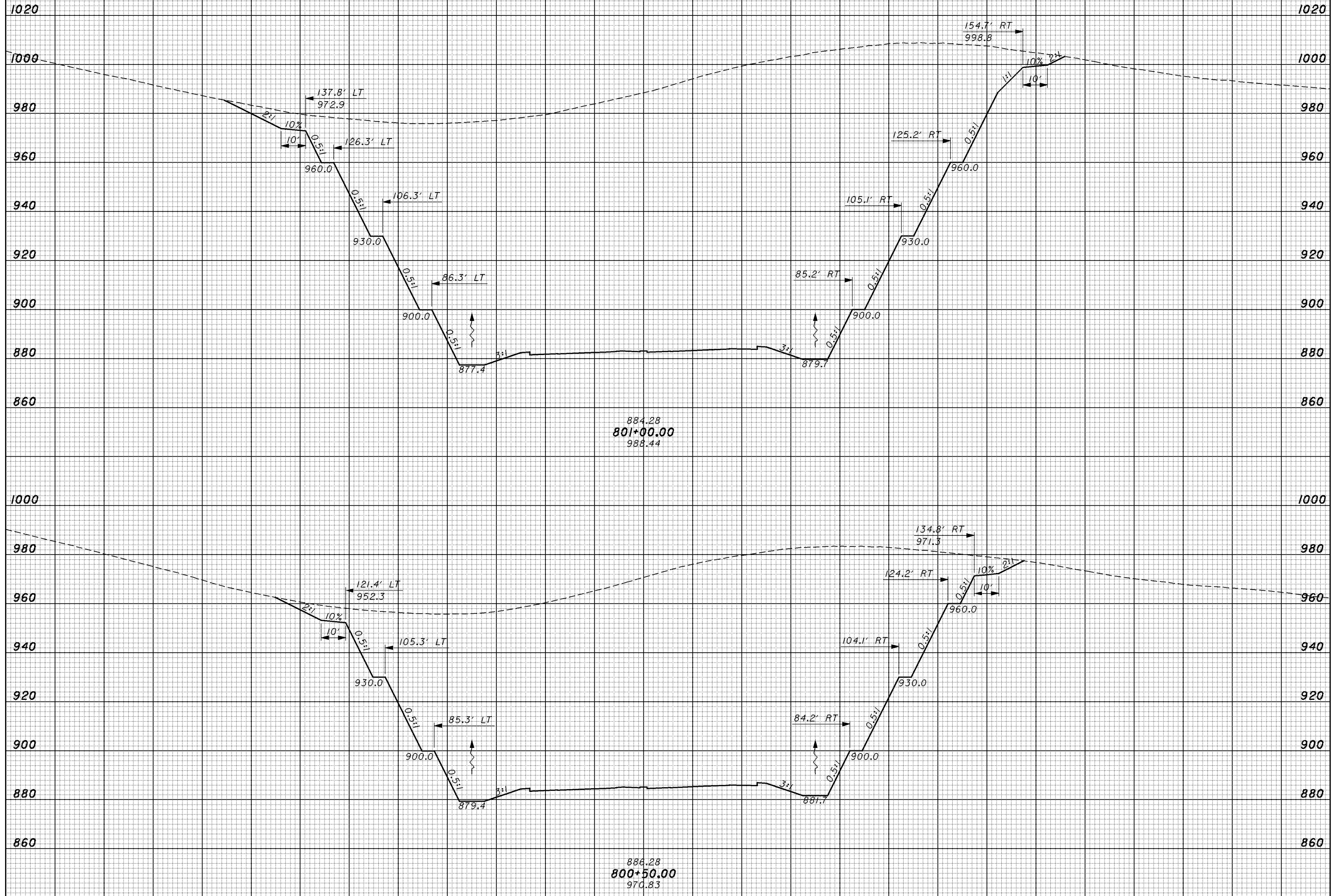
CROSS SECTIONS - SR 823
STA. 799+50.00 TO STA. 800+00.00

SCI-823-10.13

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 8:45 AM
 \\aries\PlanSets-400_sci823_half.pen
 meiben 1945xs029_ch.dgn

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
 MME
 CHECKED
 ADW



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

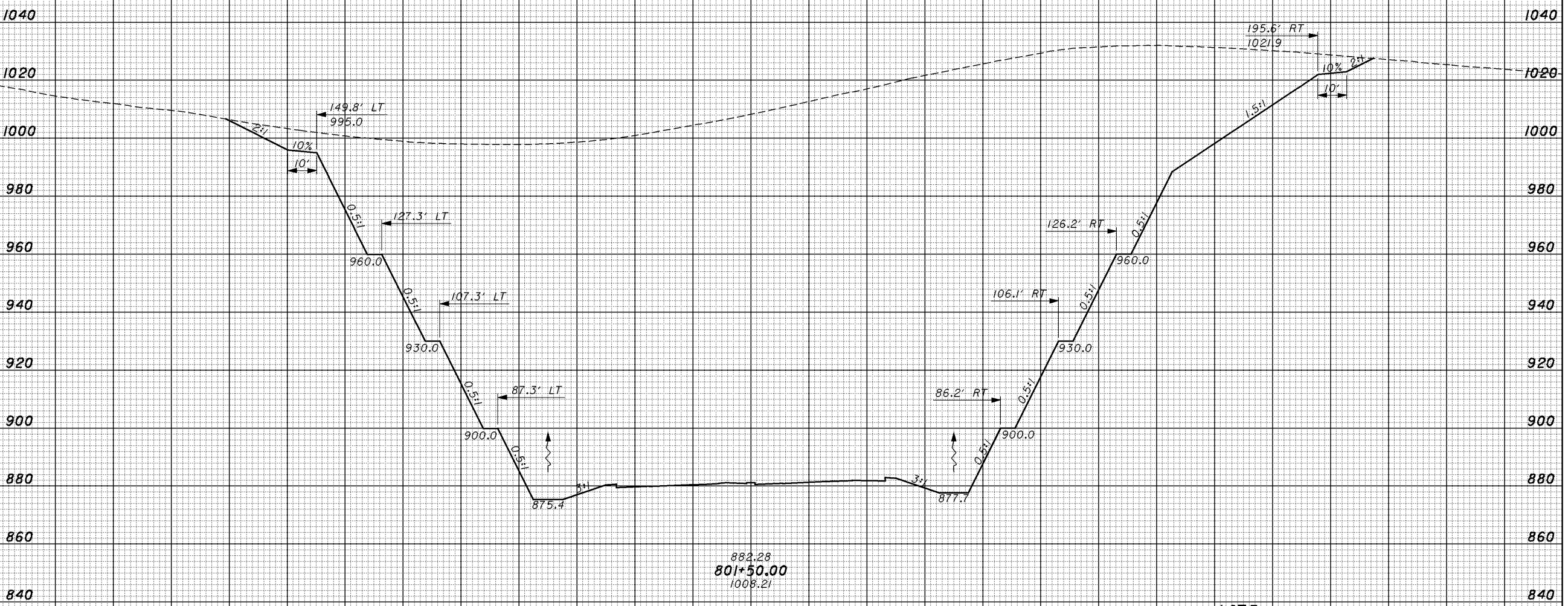
**CROSS SECTIONS - SR 823
 STA. 800+50.00 TO STA. 801+00.00**

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

11/23/2007 8:45 AM
\\aries\plansets-400_sci823_half.pen
meiben 1945xs030_ch.dgn



NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

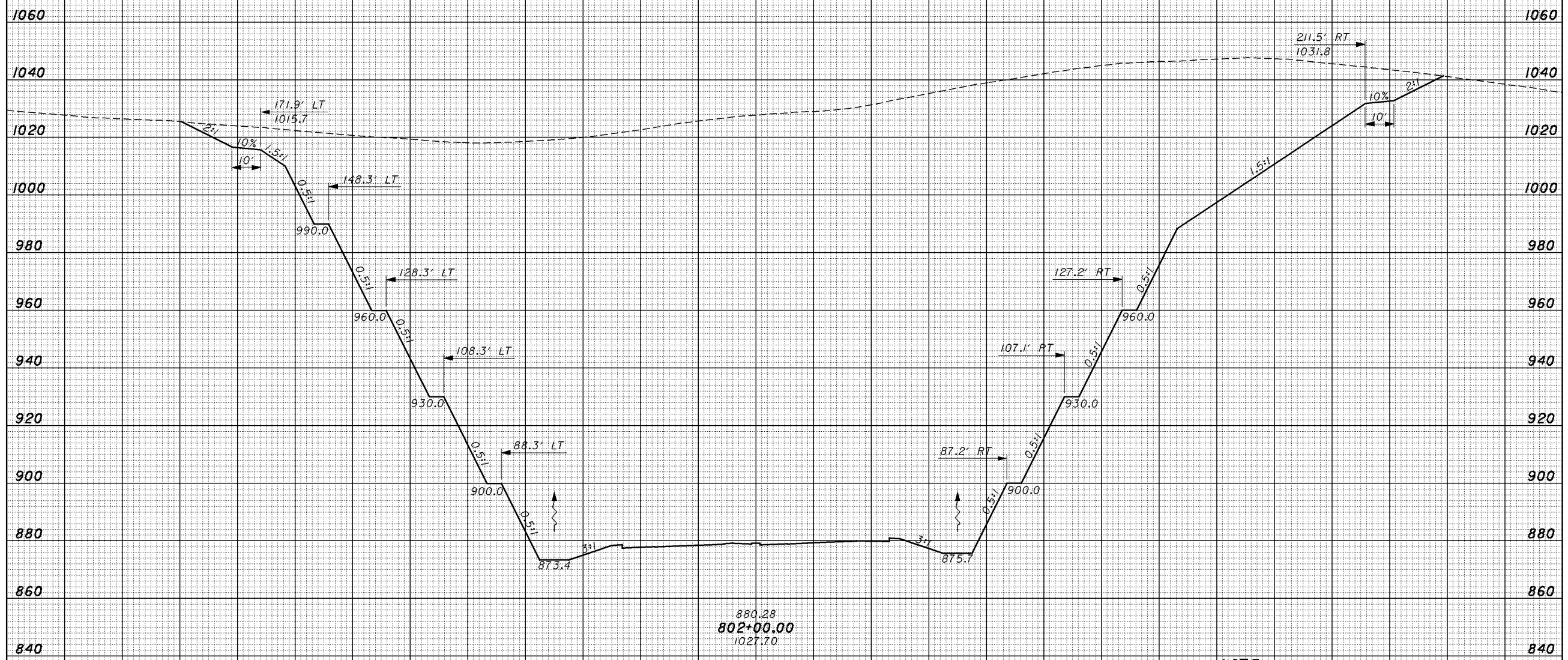
CROSS SECTIONS - SR 823
STA. 801+50.00

SCI-823-10.13

SEEDING
 END WIDTH SO. YDS.
 11/23/2007 8:45 AM
 \\aries\PlanSets-400_sci823_half.pen
 melben 1945xs03_ch.dgn

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MME	ADW



SEEDING	END WIDTH	SO. YDS.	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

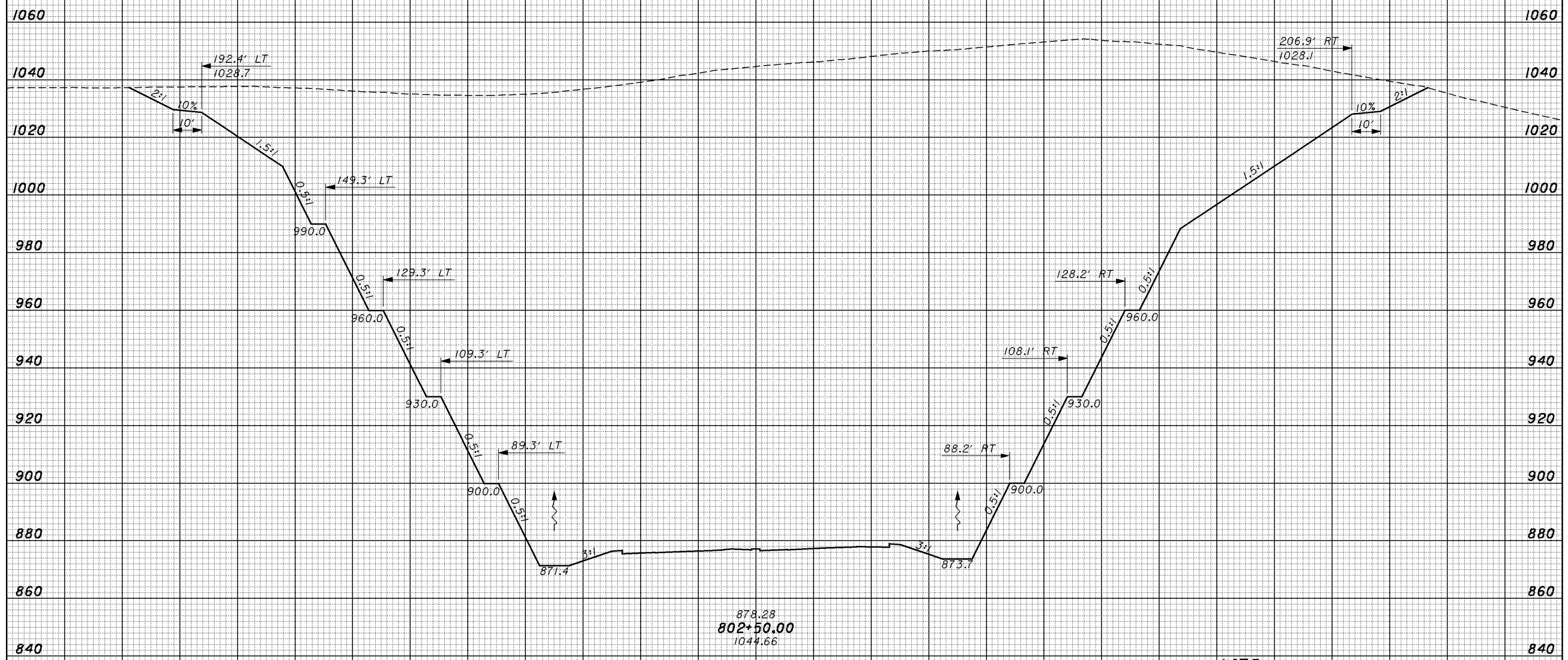
NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR 823
 STA. 802+00.00

SCI-823-10.13

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 8:45 AM
 \\aries\plansets-400_sci823_half.pen
 melben 1945xs032_ch.dgn

END AREA		VOLUME		CALCULATED	MME	CHECKED	ADW
CUT	FILL	CUT	FILL				



SEEDING	END WIDTH	SQ. YDS.	SHEET TOTAL		200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL	

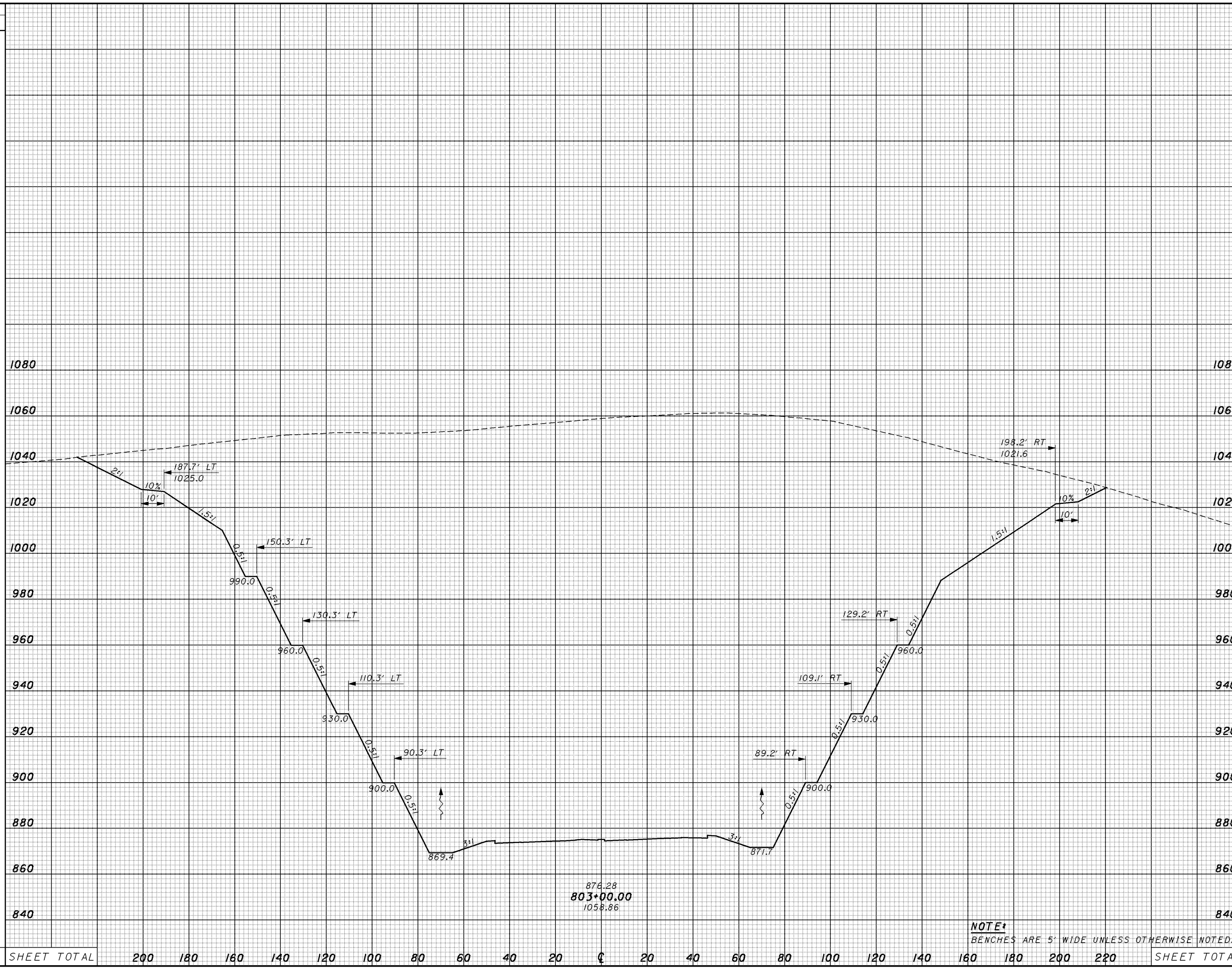
NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR 823
 STA. 802+50.00

SCI-823-10.13

SEEDING
 END WIDTH SO. YDS.
 11/23/2007 8:46 AM
 \\aries\PlanSets-400_sci823_half.pen
 meiben 1945xs033_ch.dgn

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SEEDING	END WIDTH	SO. YDS.	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

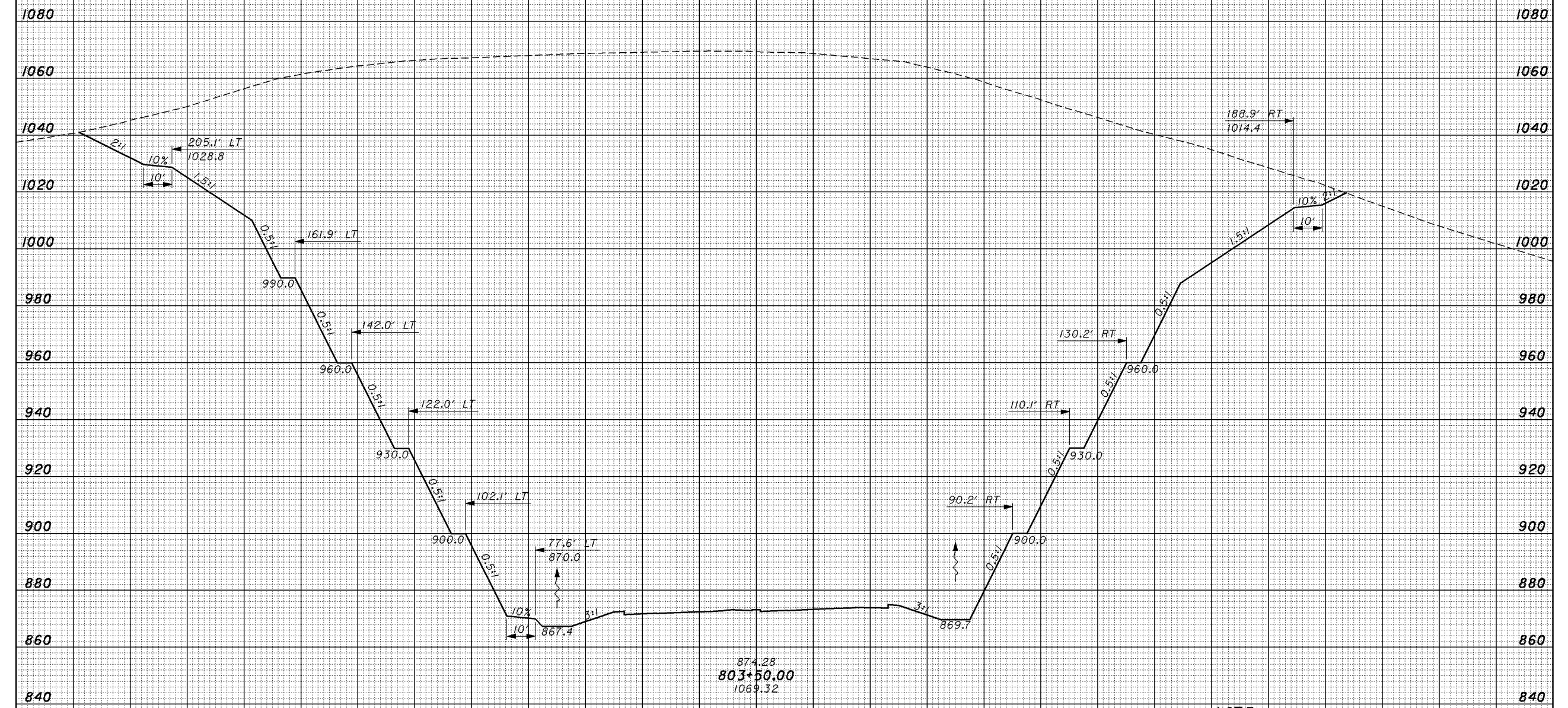
CROSS SECTIONS - SR 823
 STA. 803+00.00

SCI-823-10.13

11/23/2007 8:46 AM \\aries\plansets-400_sci823_half.pen
meiben 1945xs034_ch.dgn

SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MME	ADW



SHEET TOTAL		200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL	
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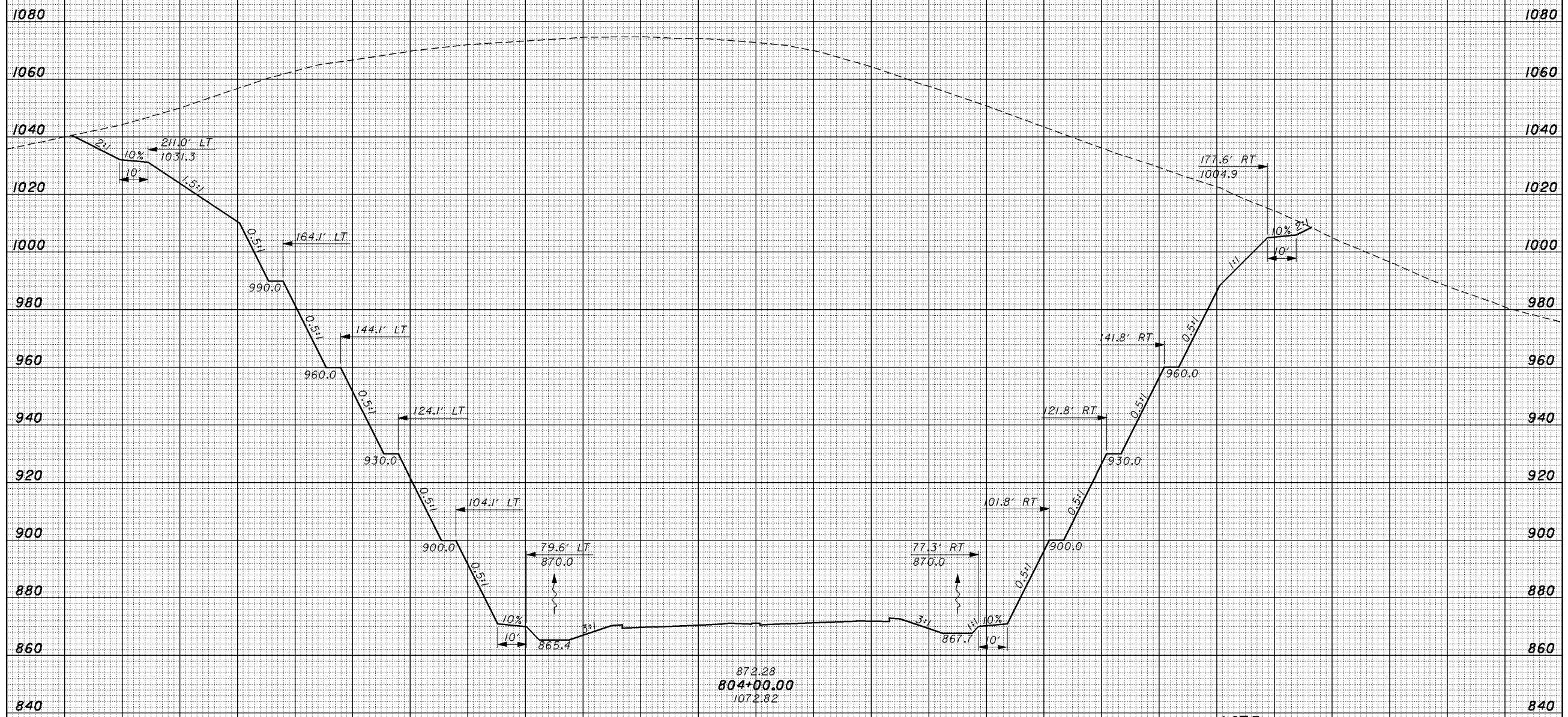
NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

**CROSS SECTIONS - SR 823
STA. 803+50.00**

SCI-823-10.13

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 8:46 AM
 \\aries\plansets-400_sci823_half.pen
 meiben 1945xs035_ch.dgn

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MME	ADW



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
-------------	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-------------

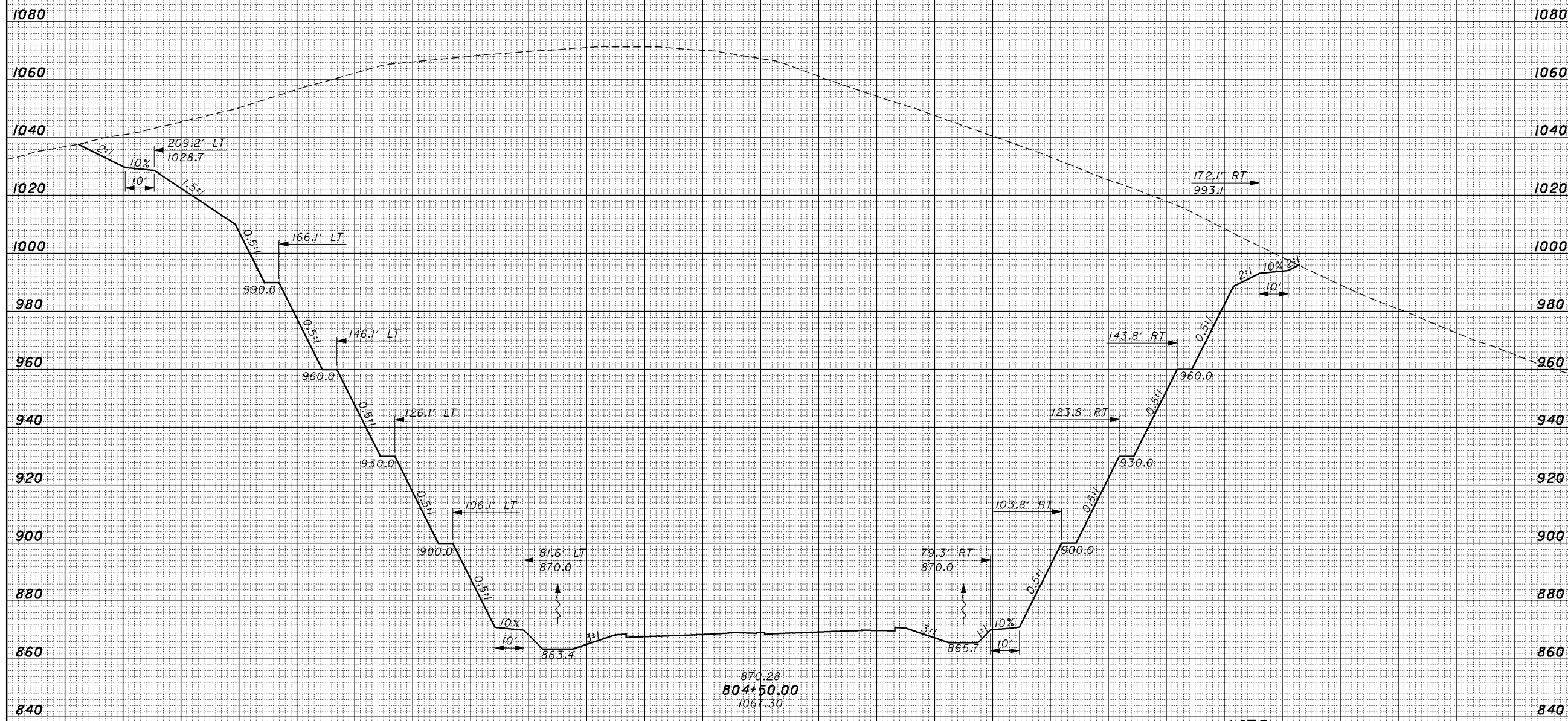
CROSS SECTIONS - SR 823
 STA. 804+00.00

SCI-823-10.13

SEEDING

END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME
CHECKED ADW



\\arles\PlanSets-400_sci823_half.pen
11/23/2007 8:46 AM

meiben 19415xs036_ch.dgn

SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	¢	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS - SR 823
STA. 804+50.00

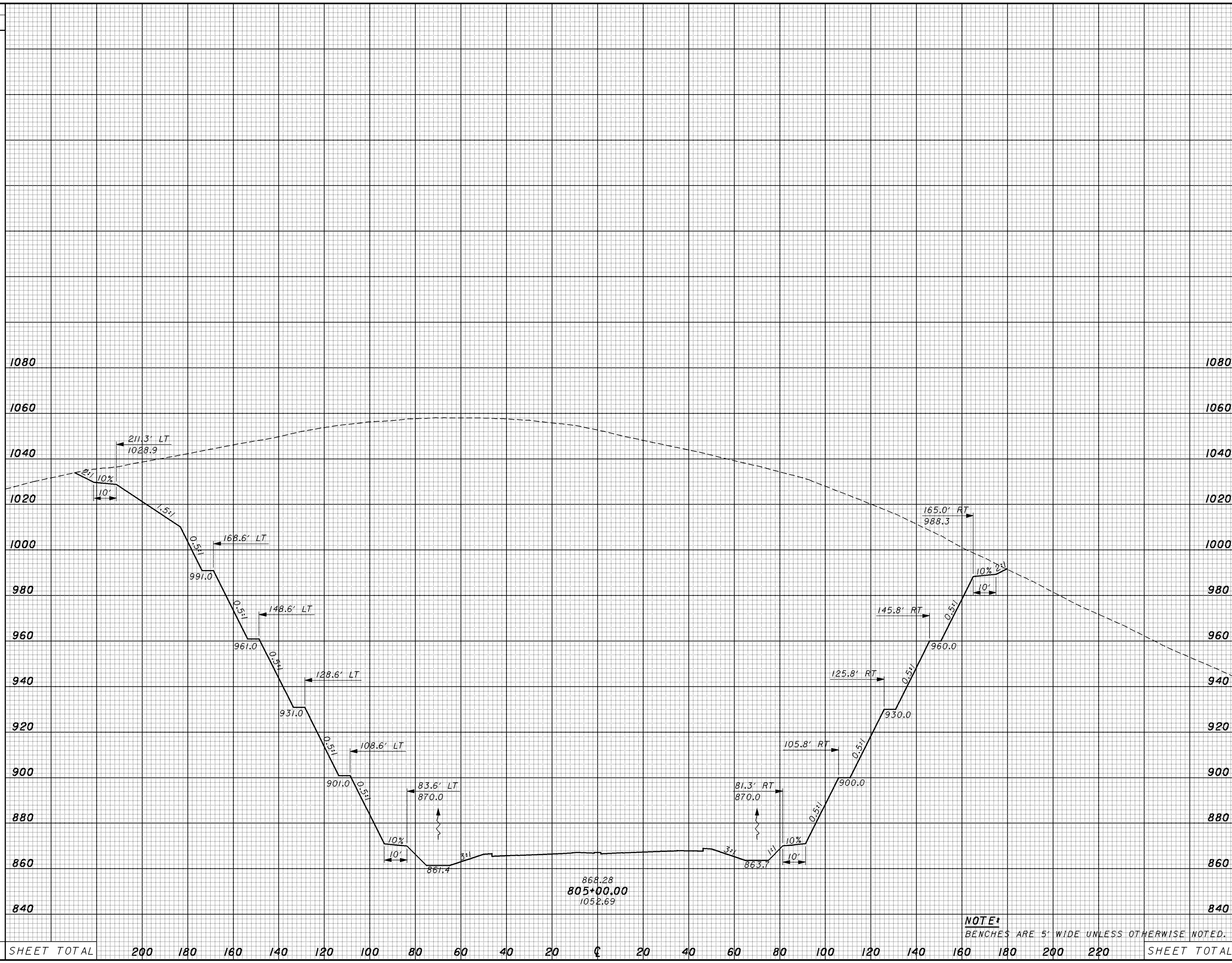
SCI-823-10.13

NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

11/23/2007 8:47 AM
\\aries\plansets-400_sci823_half.pen
meiben 1945xs037_ch.dgn



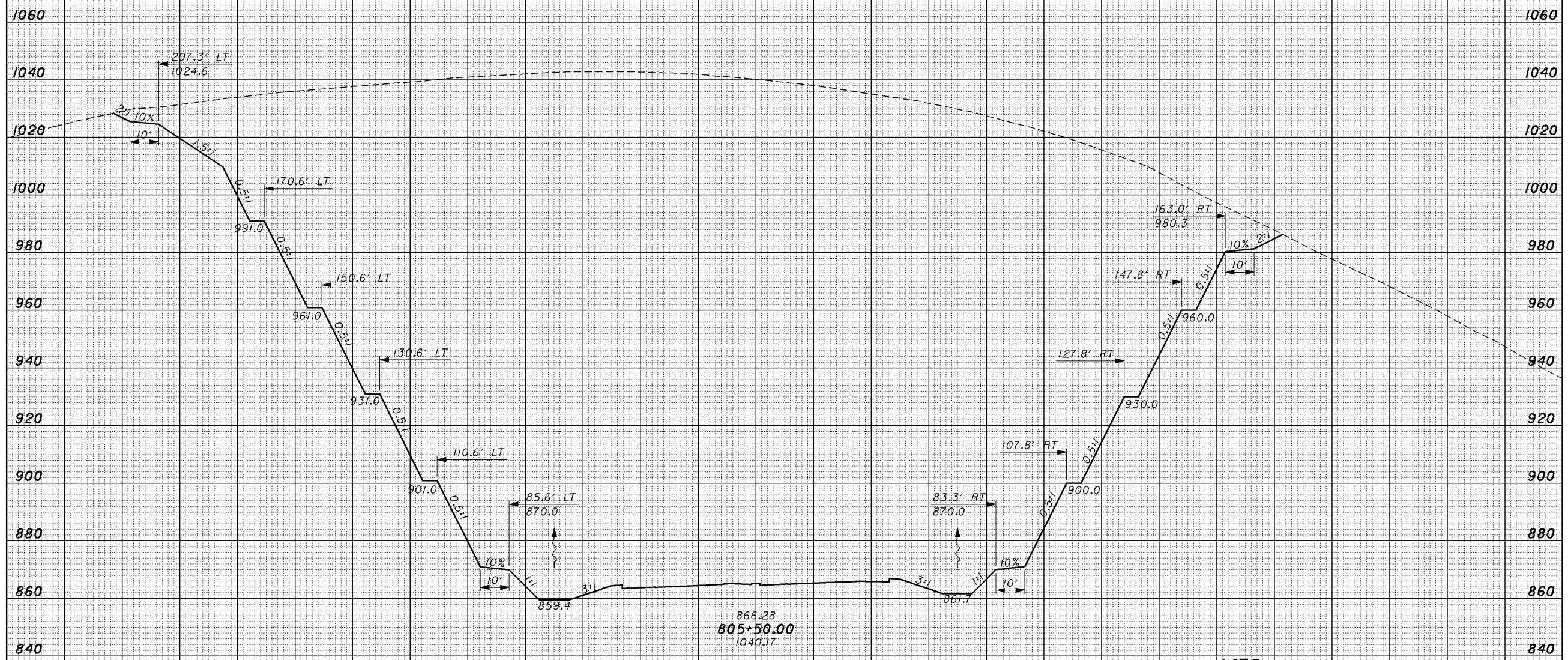
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS - SR 823
STA. 805+00.00

SCI-823-10.13

SEEDING
 END WIDTH SO. YDS.
 11/23/2007 8:47 AM
 \\aries\PlanSets-400_sci823_half.pen
 melben 1945xs038_ch.dgn

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MME	ADW



STATION	CUT	FILL	CUT	FILL
1060				
1040				
1020				
1000				
980				
960				
940				
920				
900				
880				
860				
840				
SHEET TOTAL	200	180	160	140

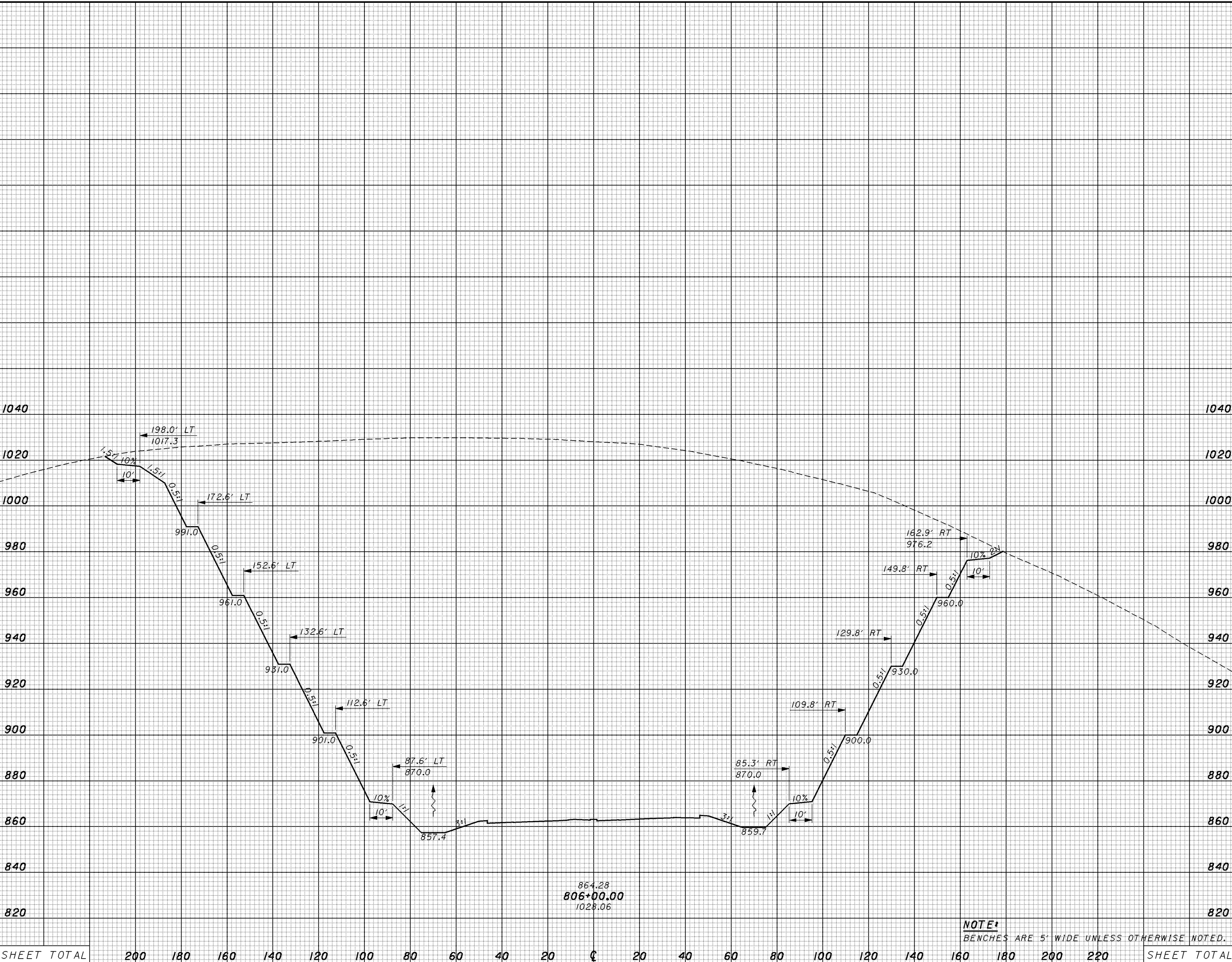
CROSS SECTIONS - SR 823
STA. 805+50.00

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MME	ADW

11/23/2007 8:47 AM
\\aries\plansets-400_sci823_half.pen
meiben 1945xs039_ch.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

864.28
806+00.00
1028.06

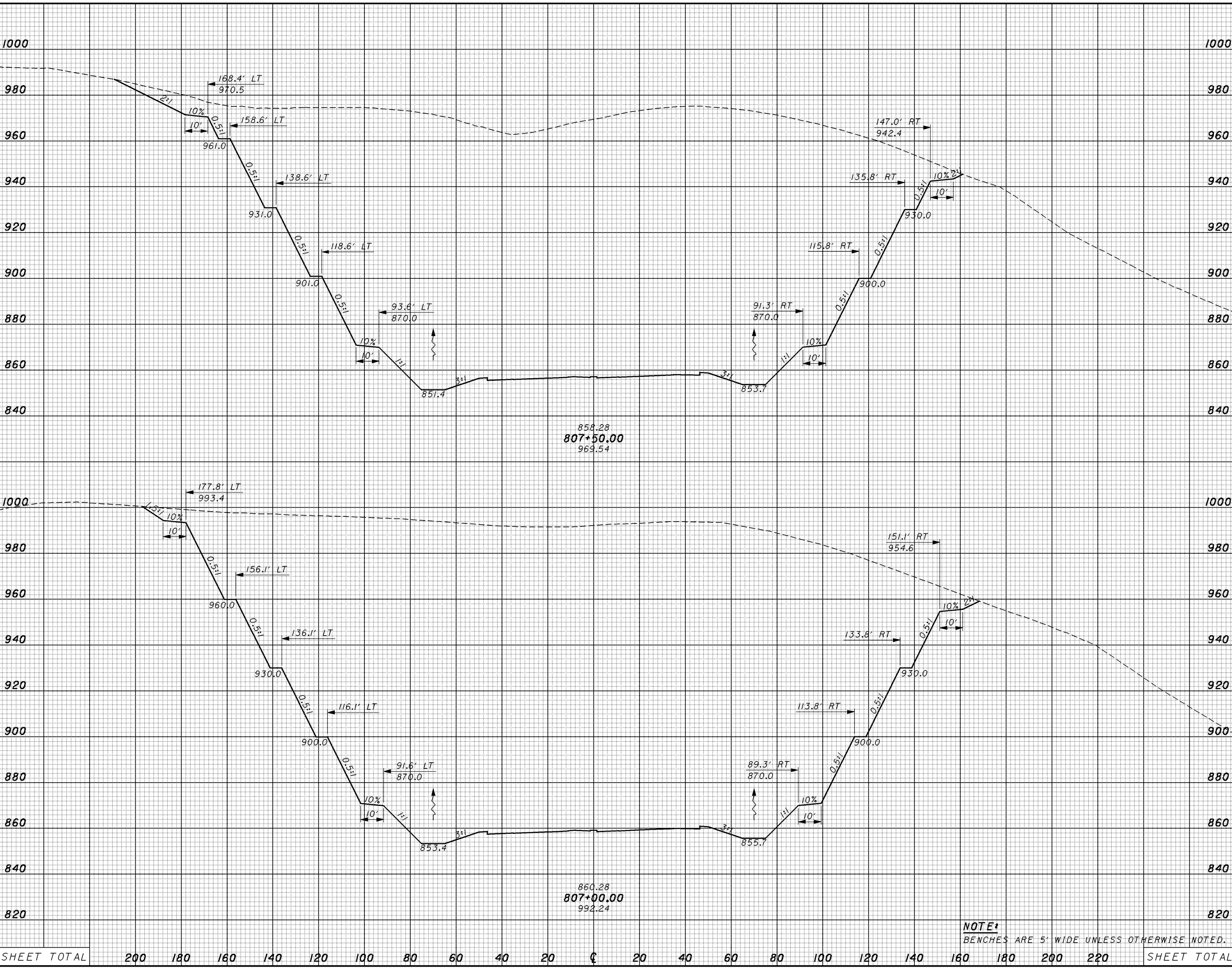
NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR 823
STA. 806+00.00

SCI-823-10.13

440

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 8:48 AM
 \\aries\PlanSets-400_sci823_half.pen
 melben 1945xs04_ch.dgn



END	AREA		VOLUME		CALCULATED	CHECKED																	
	CUT	FILL	CUT	FILL			MME	ADW															
1000																							
980																							
960																							
940																							
920																							
900																							
880																							
860																							
840																							
1000																							
980																							
960																							
940																							
920																							
900																							
880																							
860																							
840																							
820																							
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

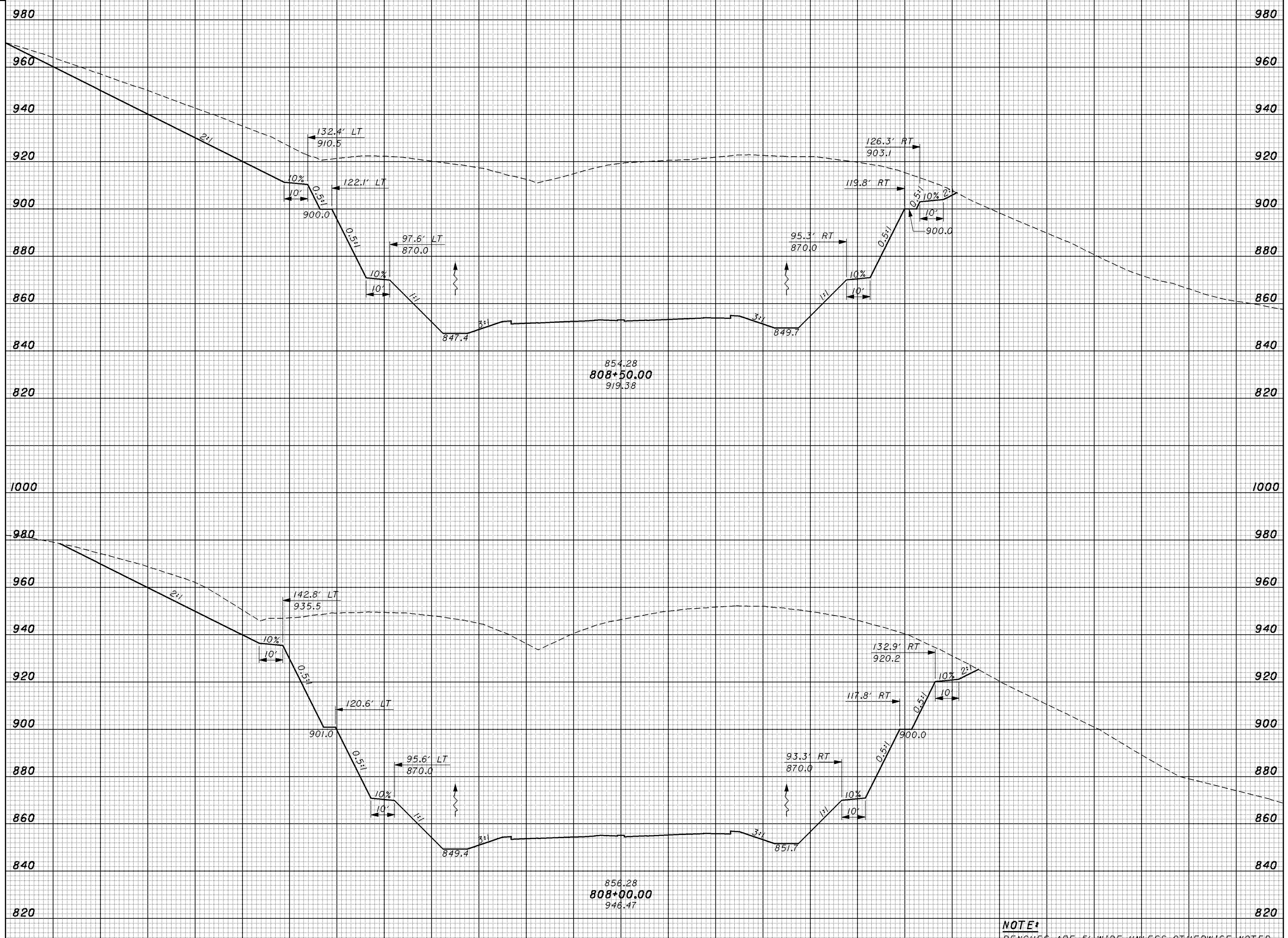
NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR 823
 STA. 807+00.00 TO STA. 807+50.00

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



11/23/2007 8:48 AM
\\aries\plansets-400_sci823_half.pen
meiben 1945xs042_ch.dgn

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

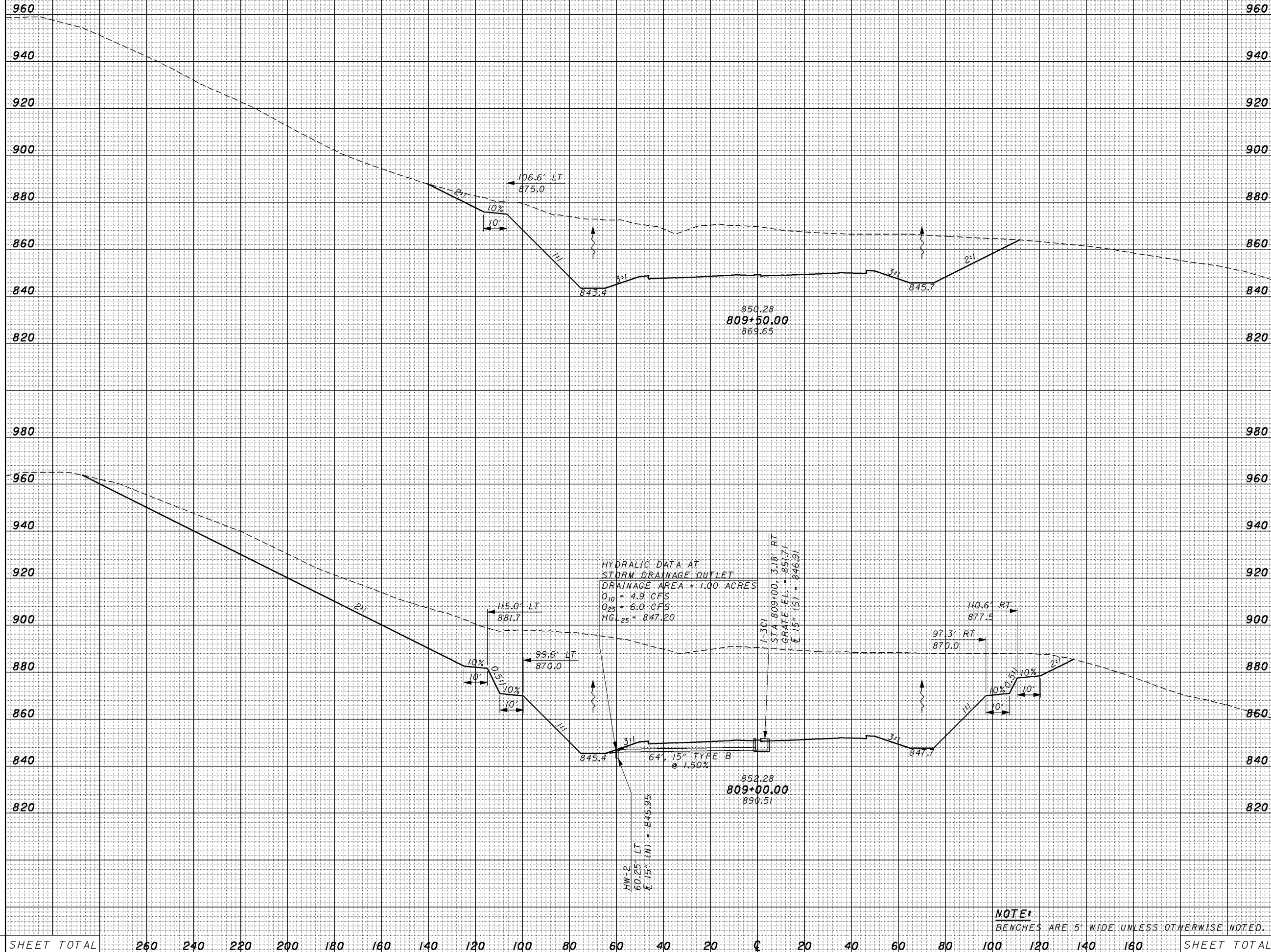
CROSS SECTIONS - SR 823
STA. 808+00.00 TO STA. 808+50.00

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

11/23/2007 8:48 AM
\\aries\PlanSets-400_sci823_half.pen
meiben 19415xs043_ch.dgn



NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 SHEET TOTAL

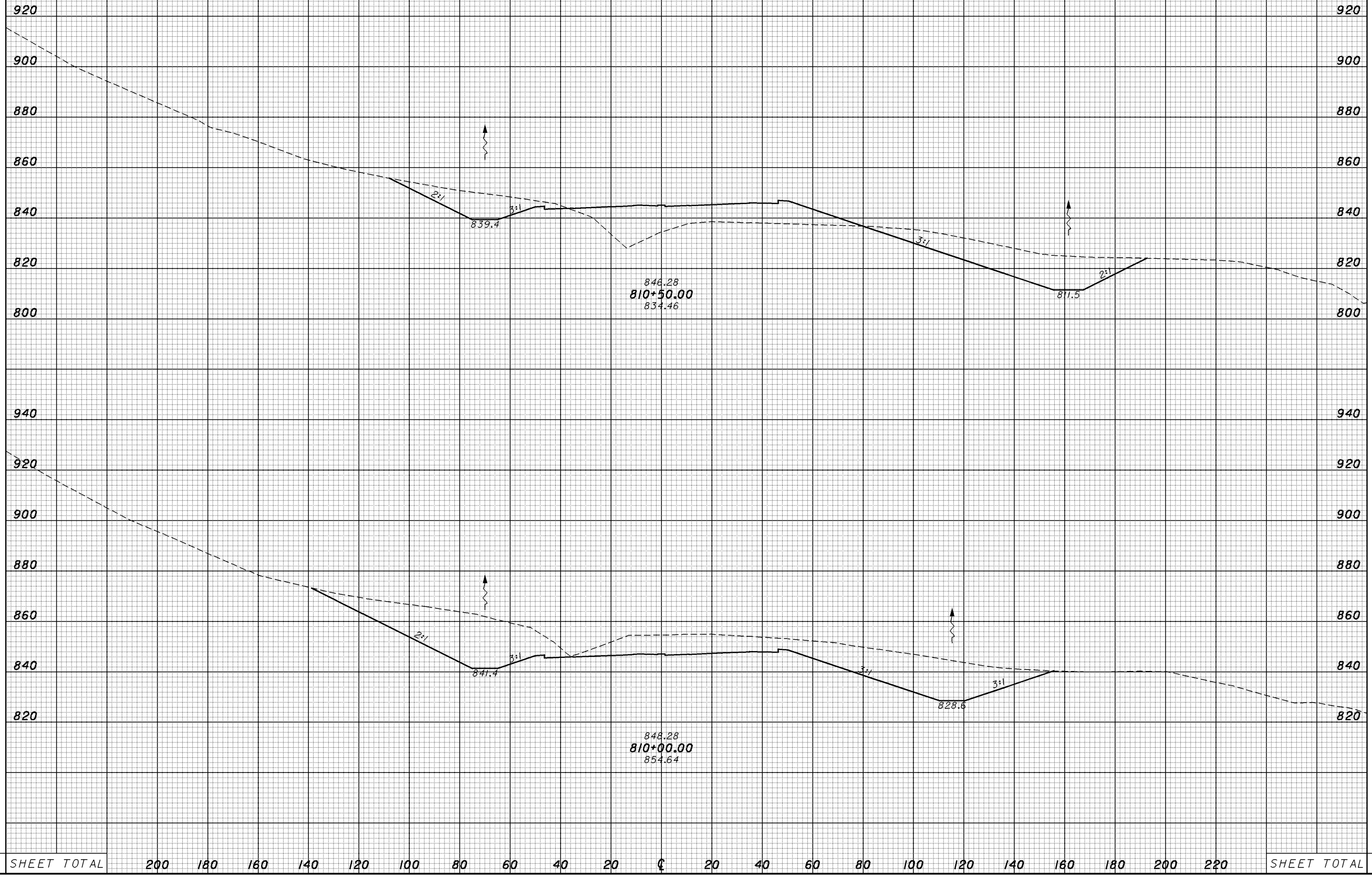
CROSS SECTIONS - SR 823
STA. 809+00.00 TO STA. 809+50.00

SCI-823-10.13

SEEDING
 END WIDTH SO. YDS.
 11/23/2007 8:49 AM
 \\aries\plansets-400_sci823_half.pen
 meiben 1945xs044_ch.dgn

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MME	ADW



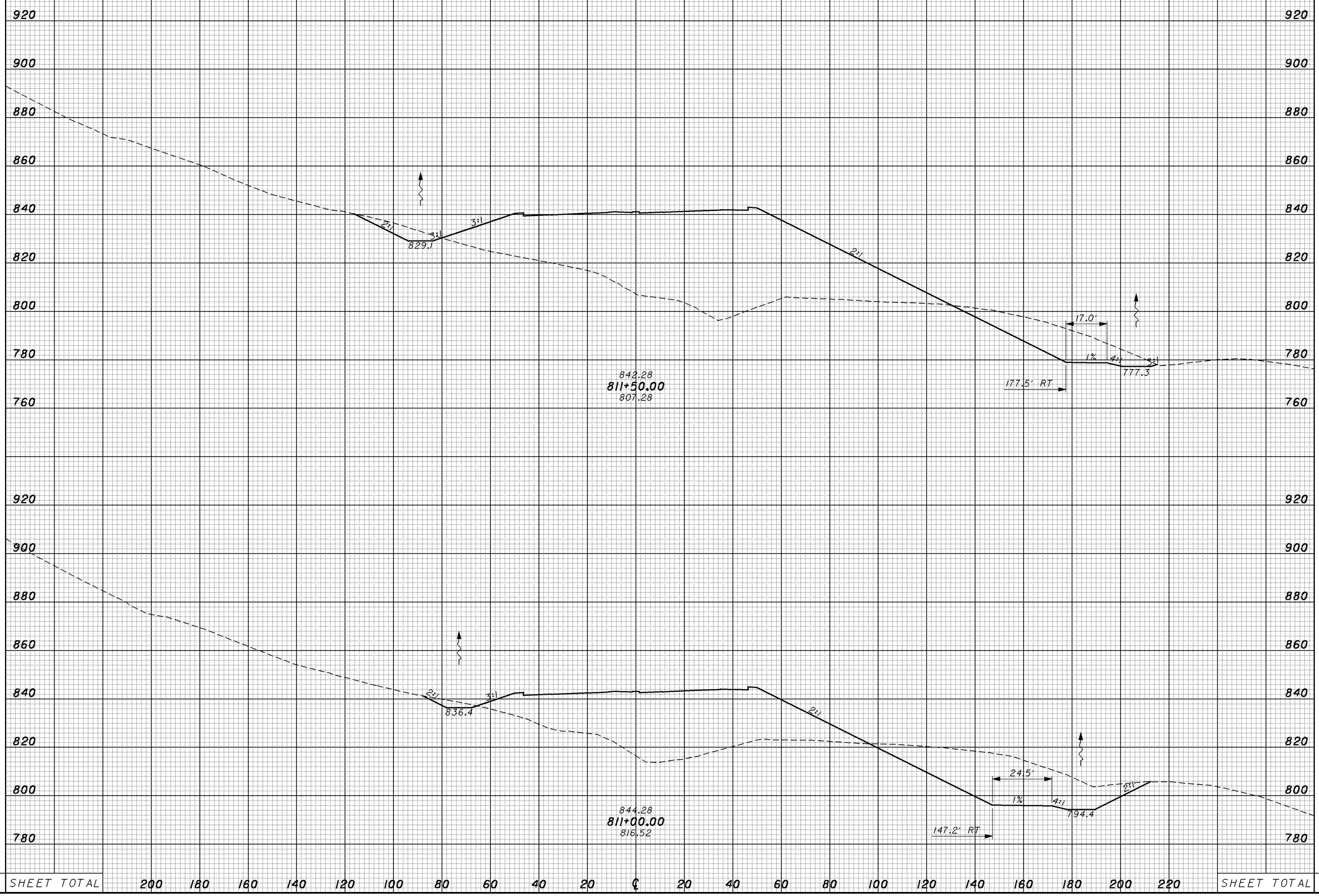
CROSS SECTIONS - SR 823
STA. 810+00.00 TO STA. 810+50.00

SCI-823-10.13

meiben 19415xs045_ch.dgn 11/23/2007 8:49 AM \\aries\plansets-400_sci823_half.pen

SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MME	ADW



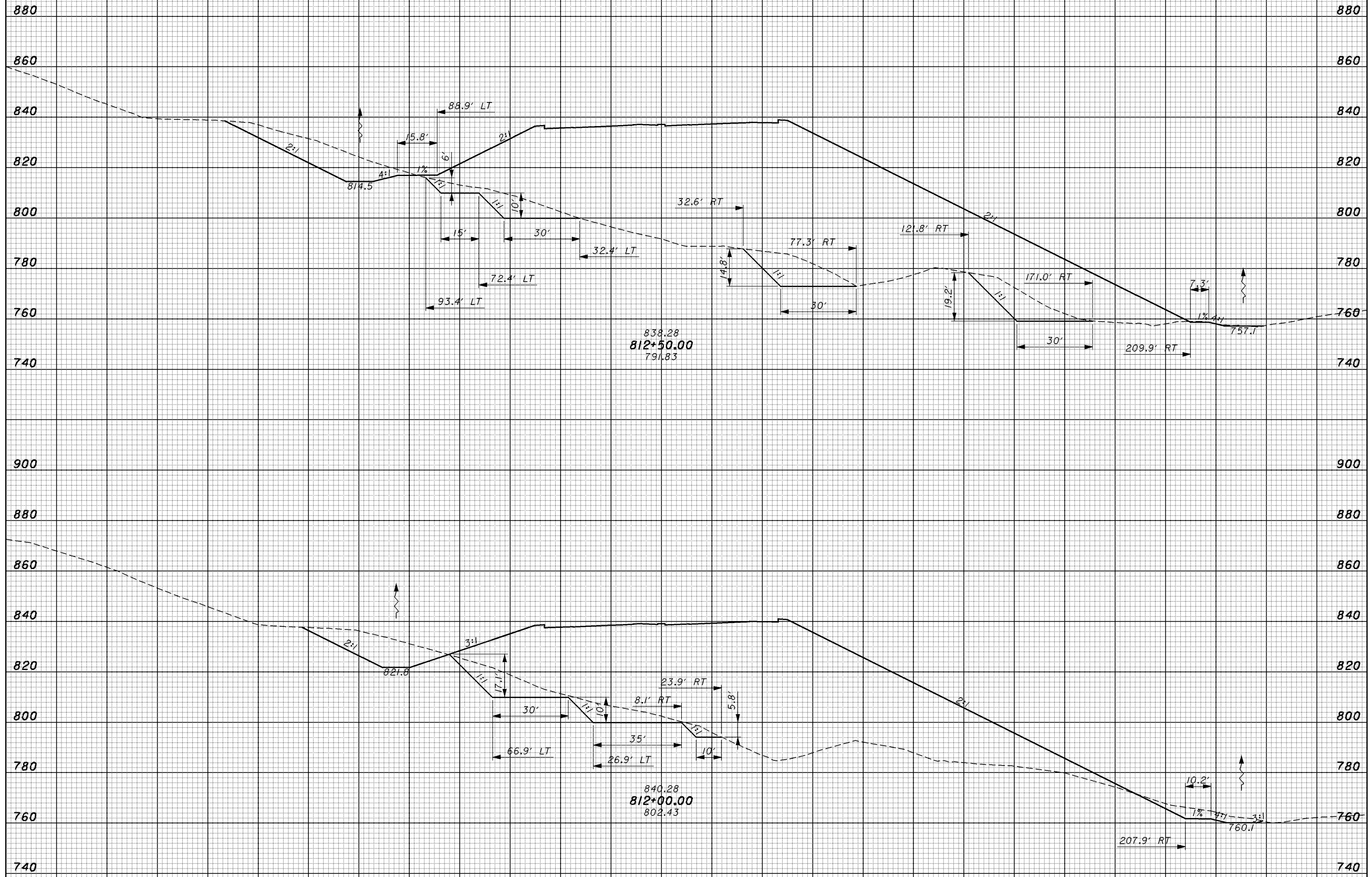
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 CL 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - SR 823
STA. 811+00.00 TO STA. 811+50.00

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - SR 823
STA. 812+00.00 TO STA. 812+50.00

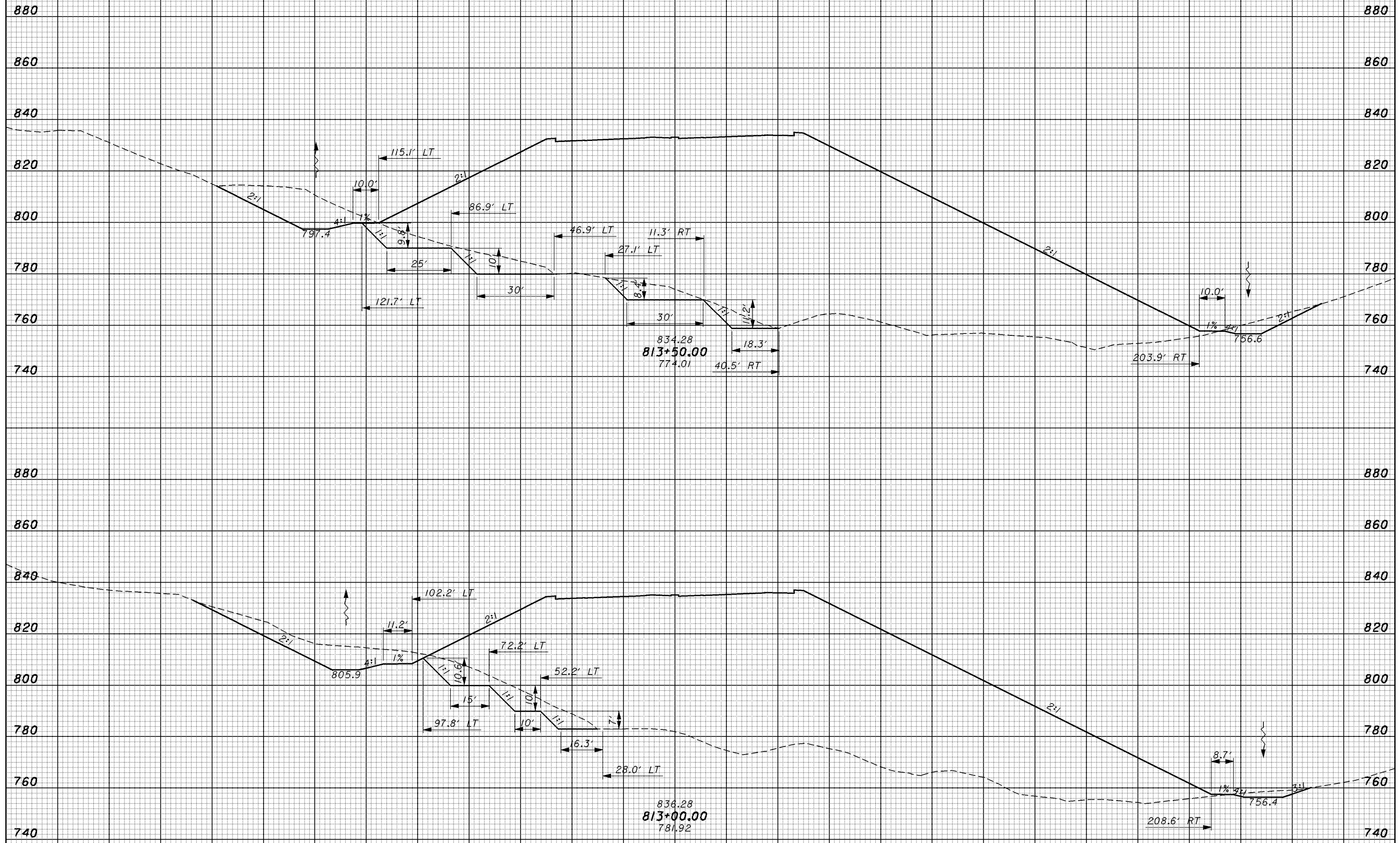
SCI-823-10.13

11/23/2007 8:49 AM \\aries\plansets-400_sci823_half.pen
meiben 19415xs046_ch.dgn

11/23/2007 8:50 AM \\aries\plansets-400_sci823_half.pen
 meiben 19415xs047_ch.dgn

SEEDING
 END WIDTH SQ. YDS.

END AREA VOLUME
 CUT FILL CUT FILL
 CALCULATED MME CHECKED ADW



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - SR 823
 STA. 813+00.00 TO STA. 813+50.00

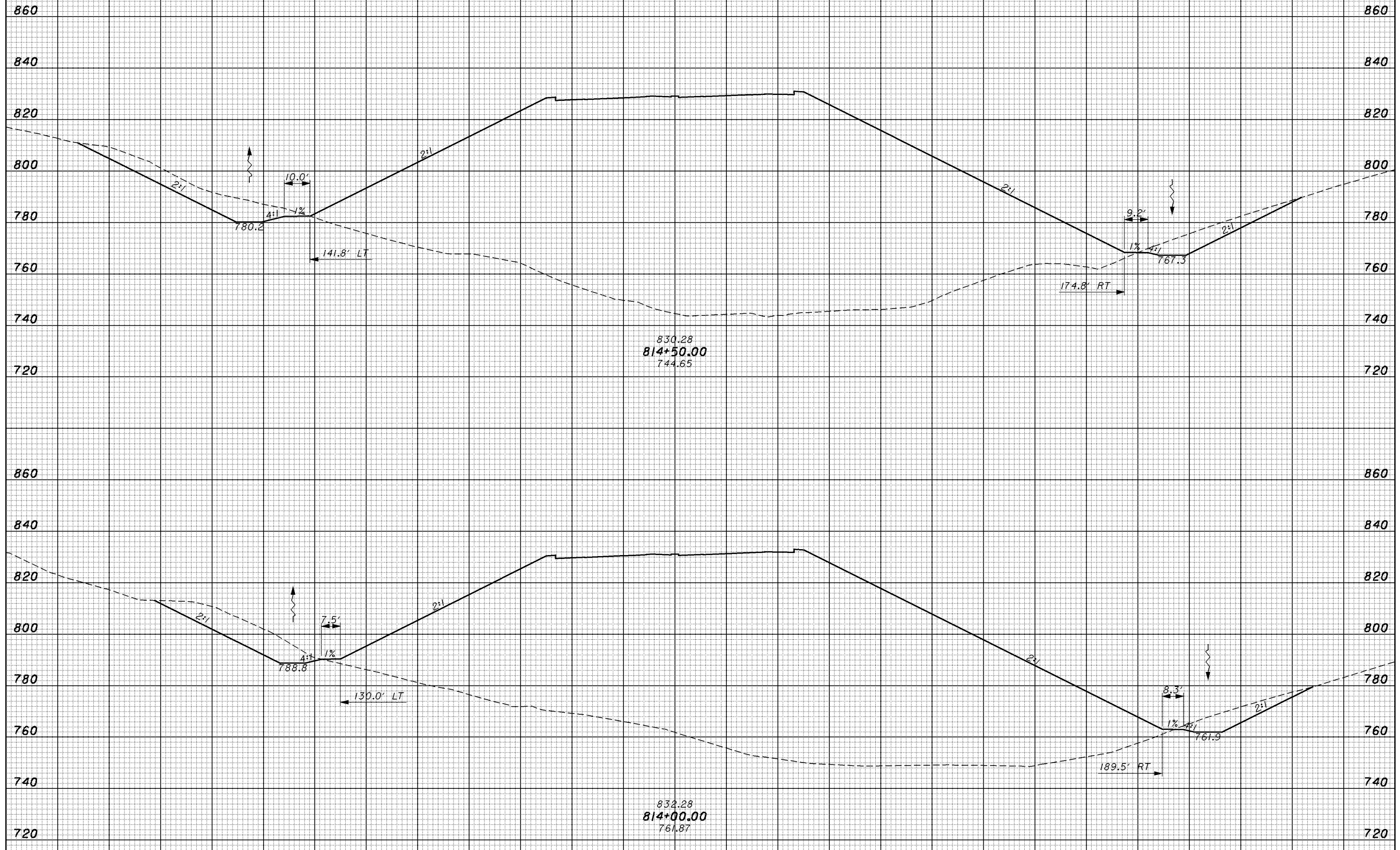
SCI-823-10.13

448

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 8:50 AM
 \\aries\PlanSets-400_sci823_half.pen
 meiben 19415xs048_ch.dgn

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MME	ADW



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS - SR 823
 STA. 814+00.00 TO STA. 814+50.00

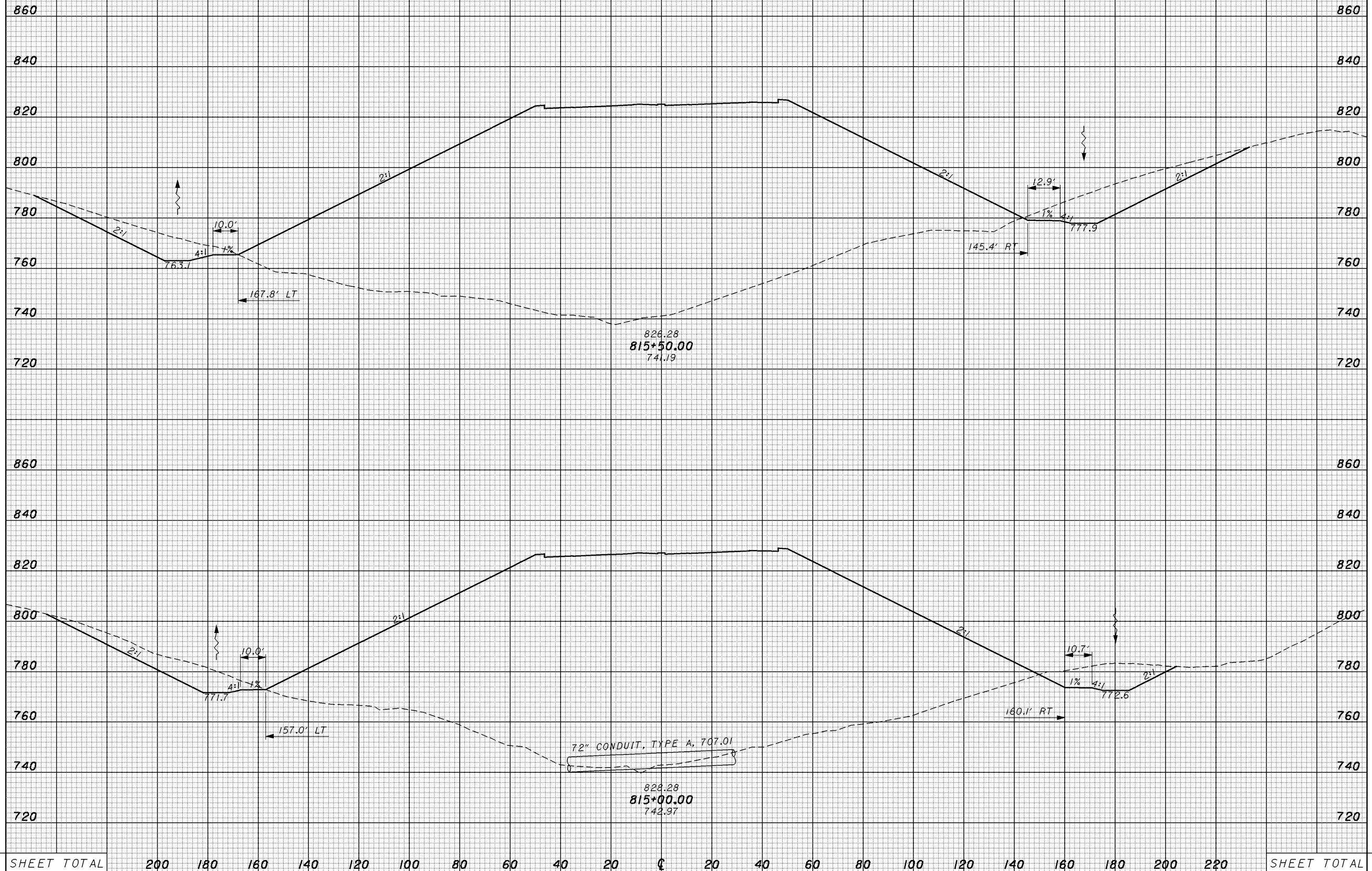
SCI-823-10.13

11/23/2007 8:50 AM \\aries\PlanSets-400_sci823_half.pen
 melben 19415xs049_ch.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

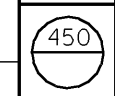
CALCULATED	CHECKED
MME	ADW



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	¢	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS - SR 823
 STA. 815+00.00 TO STA. 815+50.00

SCI-823-10.13

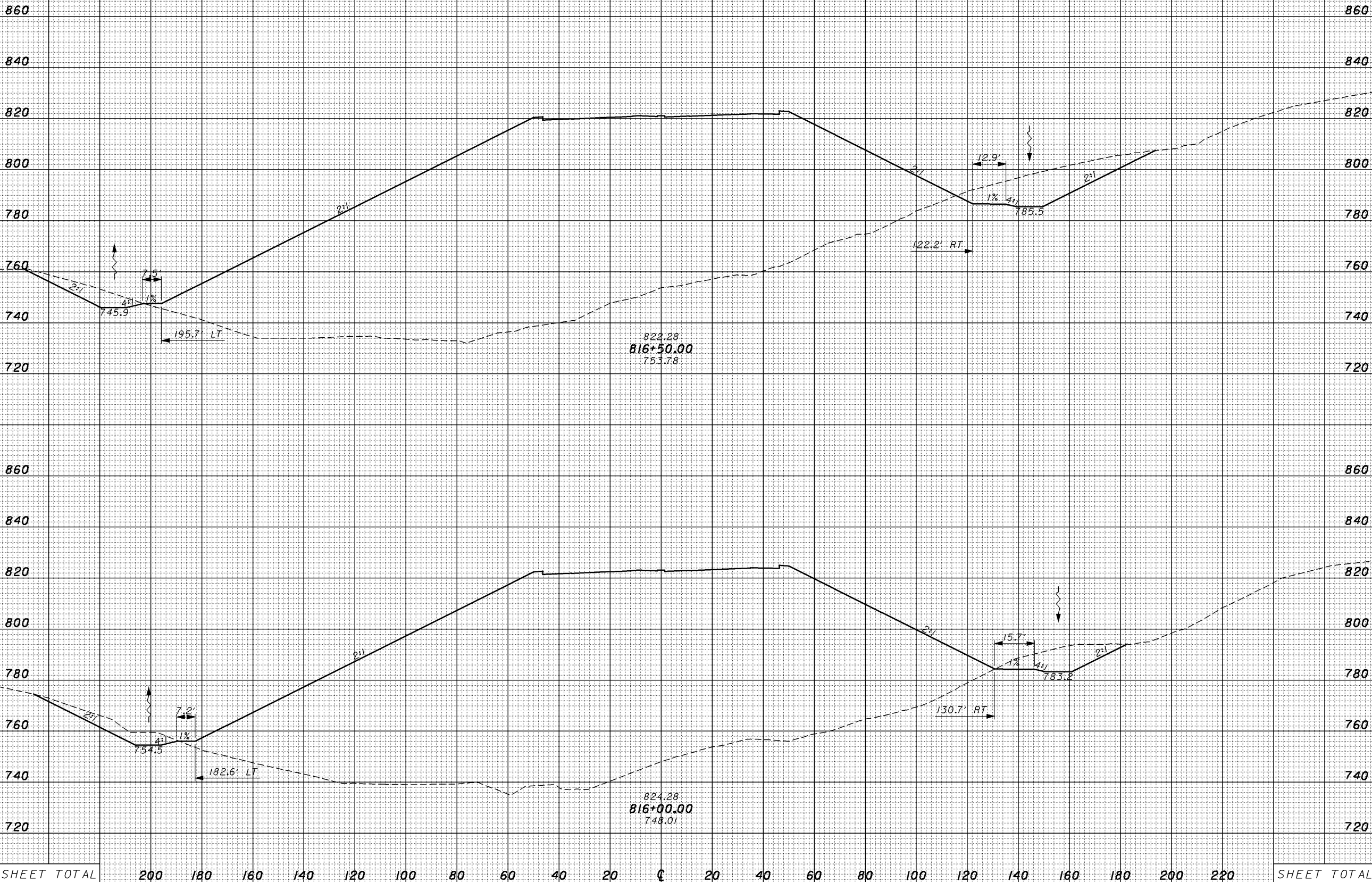


SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	MME
CHECKED	ADW

11/23/2007 8:51 AM
 \\aries\PlanSets-400_sci823_half.pen
 mellen 19415xs050_ch.dgn



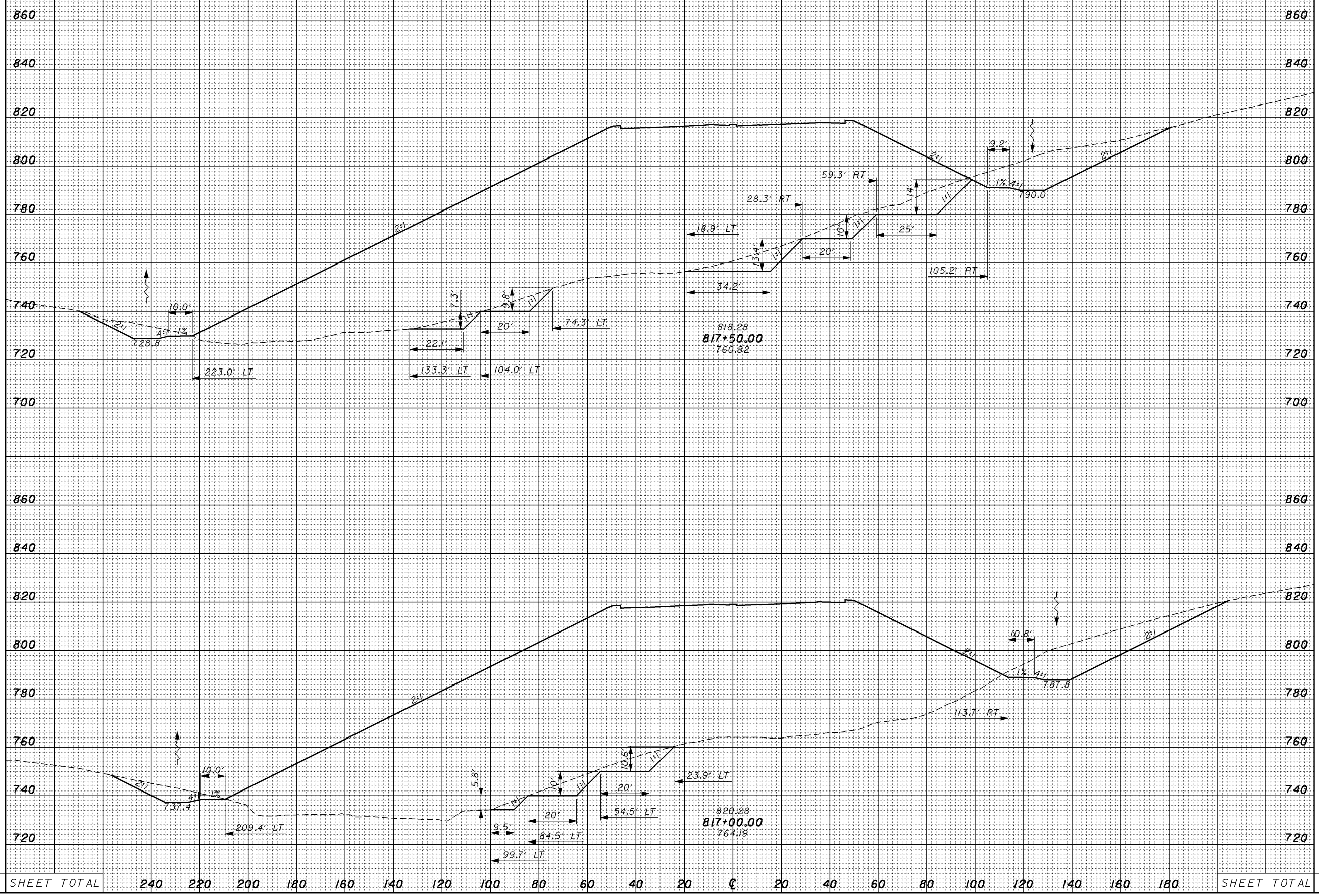
CROSS SECTIONS - SR 823
STA. 816+00.00 TO STA. 816+50.00

SCI-823-10.13

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 8:51 AM
 \\aries\PlanSets-400_sci823_half.pen
 meiben 19415xs05_ch.dgn

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
 MME
 CHECKED
 ADW



SHEET TOTAL	240	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	SHEET TOTAL

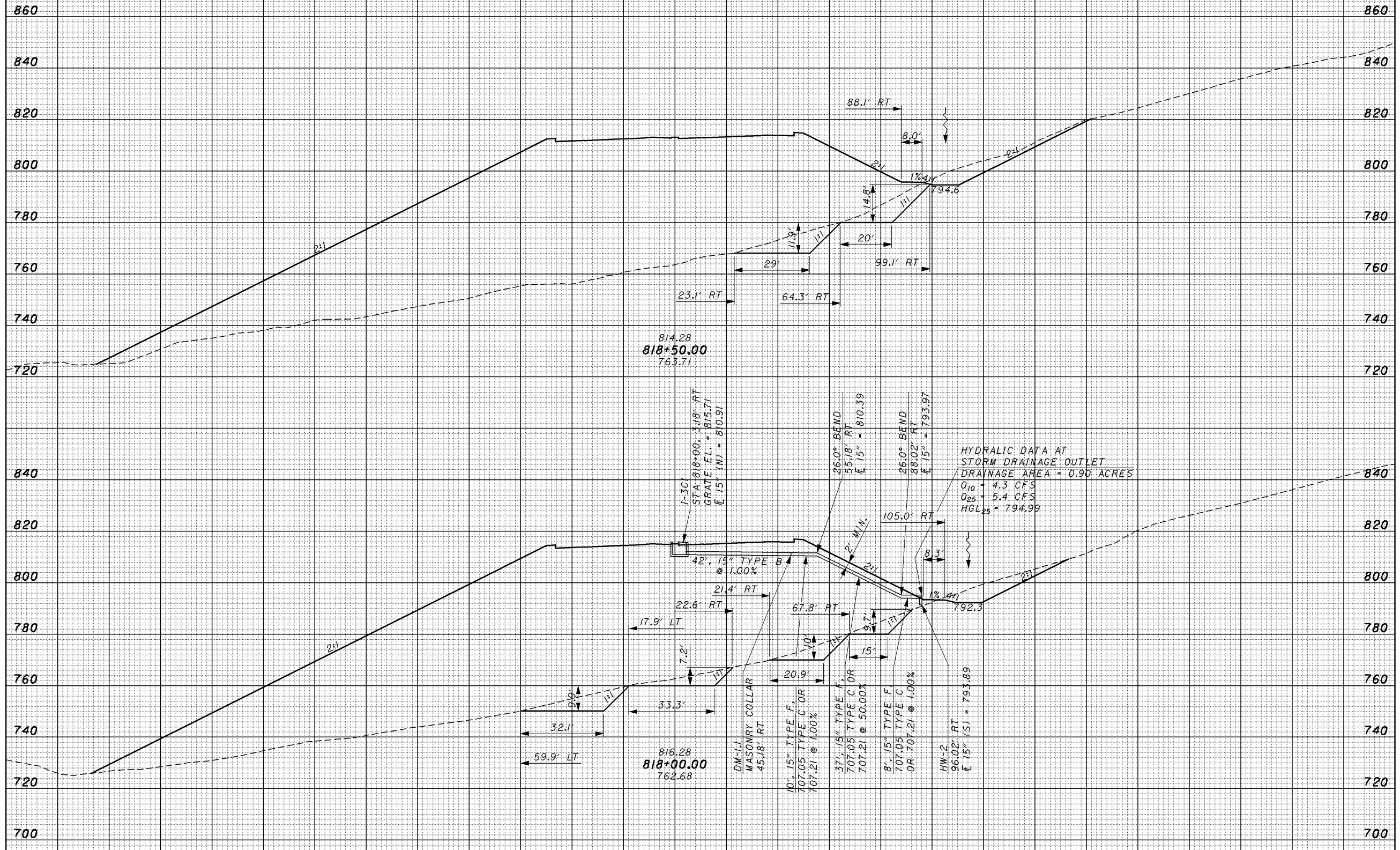
CROSS SECTIONS - SR 823
STA. 817+00.00 TO STA. 817+50.00

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

11/23/2007 8:51 AM
\\arles\PlanSets-400_sci823_half.pen
meiben 19415xs052_ch.dgn



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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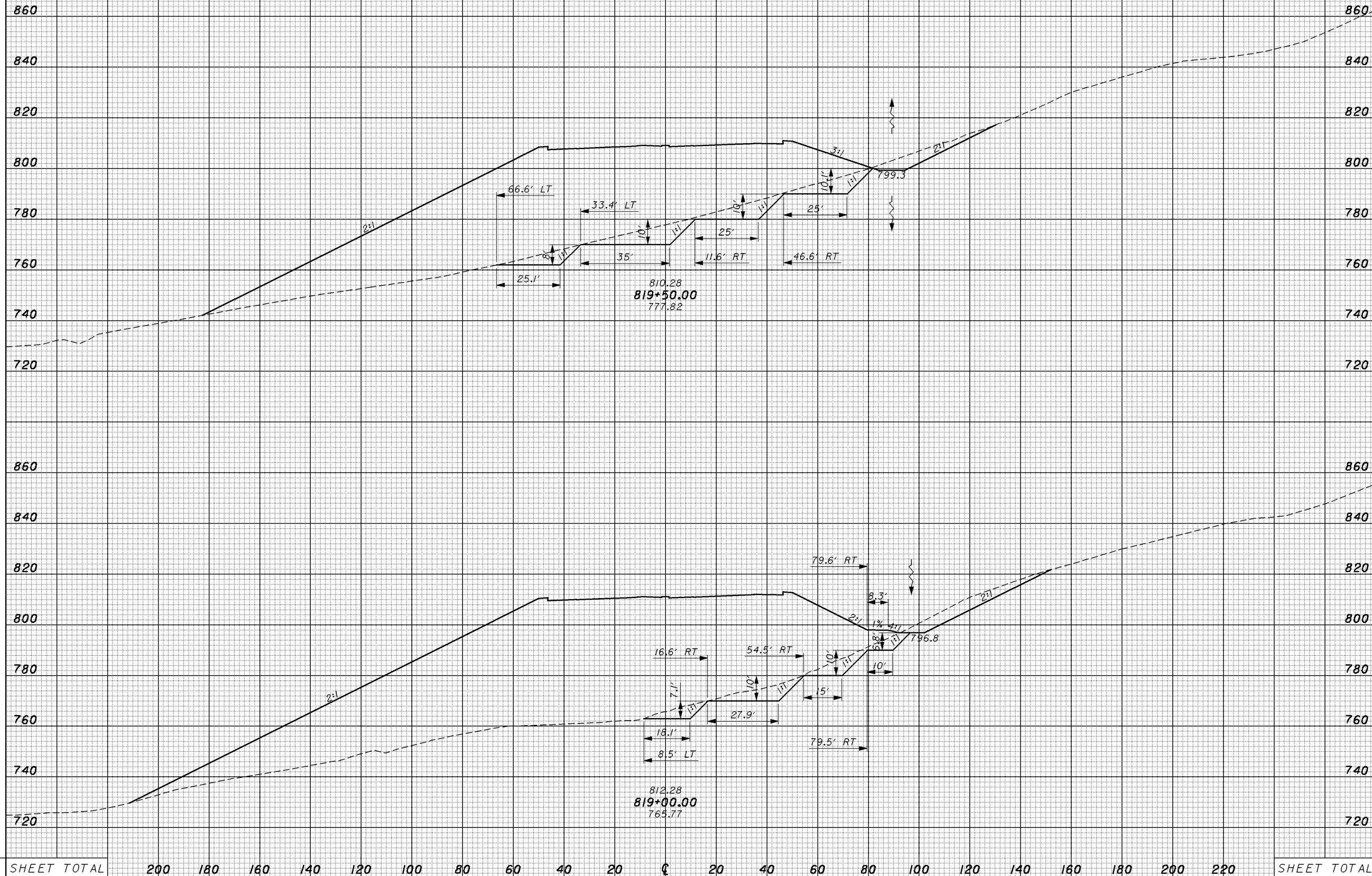
CROSS SECTIONS - SR 823
STA. 818+00.00 TO STA. 818+50.00

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		

11/23/2007 8:52 AM
\\aries\plansets-400_sci823_half.pen
meiben 19415xs053_ch.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - SR 823
STA. 819+00.00 TO STA. 819+50.00

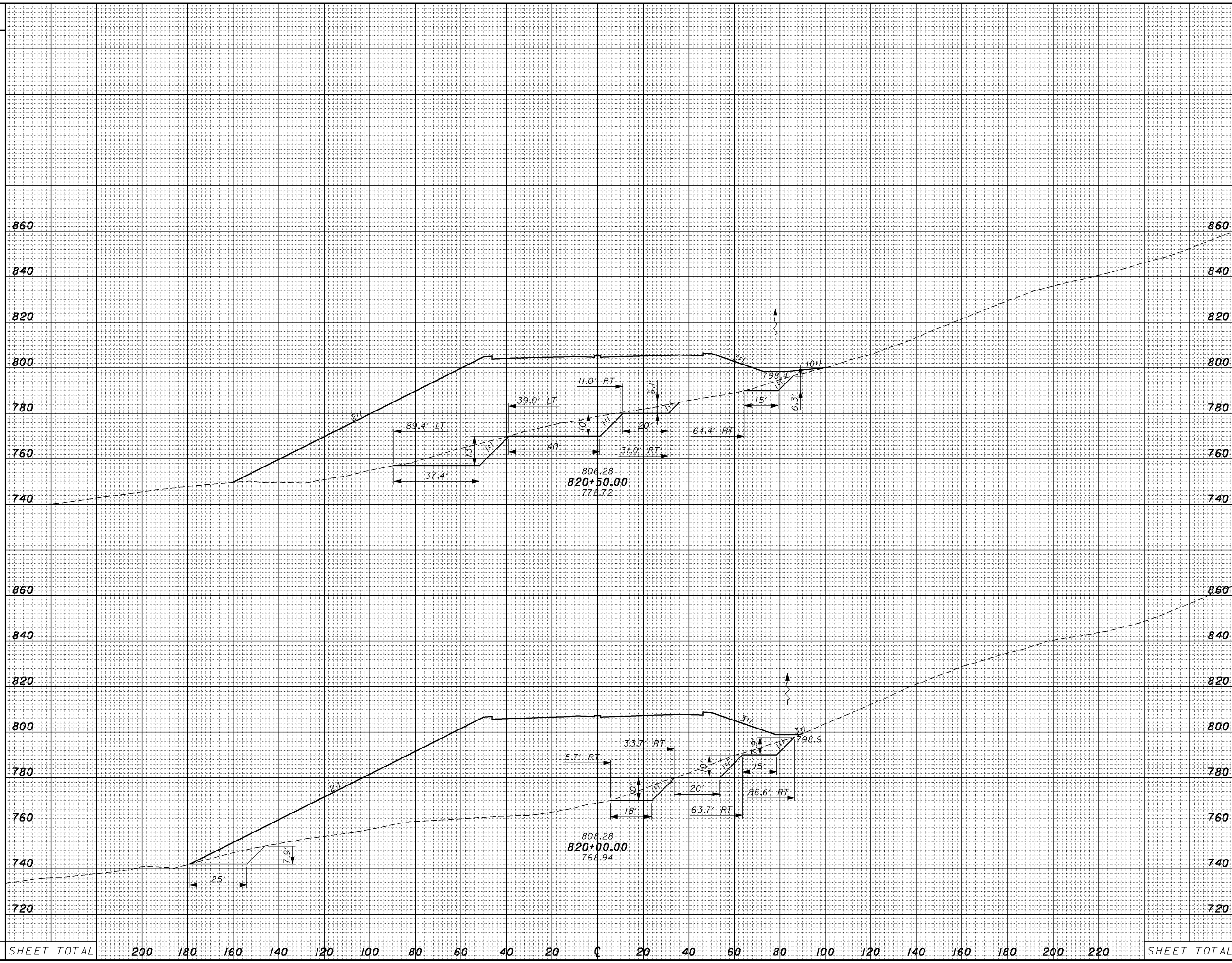
SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MME	ADW

11/23/2007 8:52 AM
\\aries\plansets-400_sci823_half.pen
meiben 19415xs054_ch.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

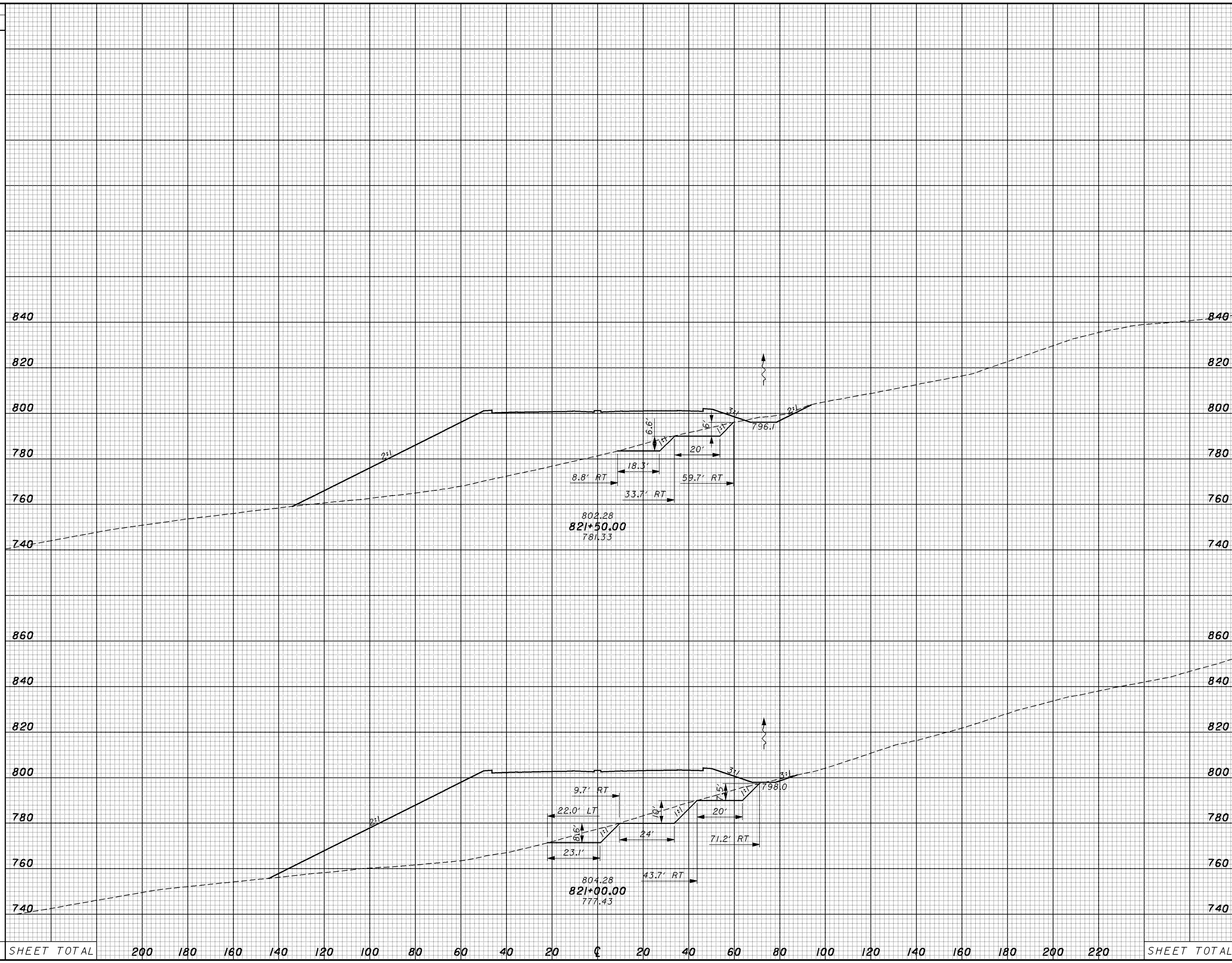
**CROSS SECTIONS - SR 823
 STA. 820+00.00 TO STA. 820+50.00**

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

11/23/2007 8:52 AM
\\aries\plansets-400_sci823_half.pen
meiben 1945xs055_ch.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

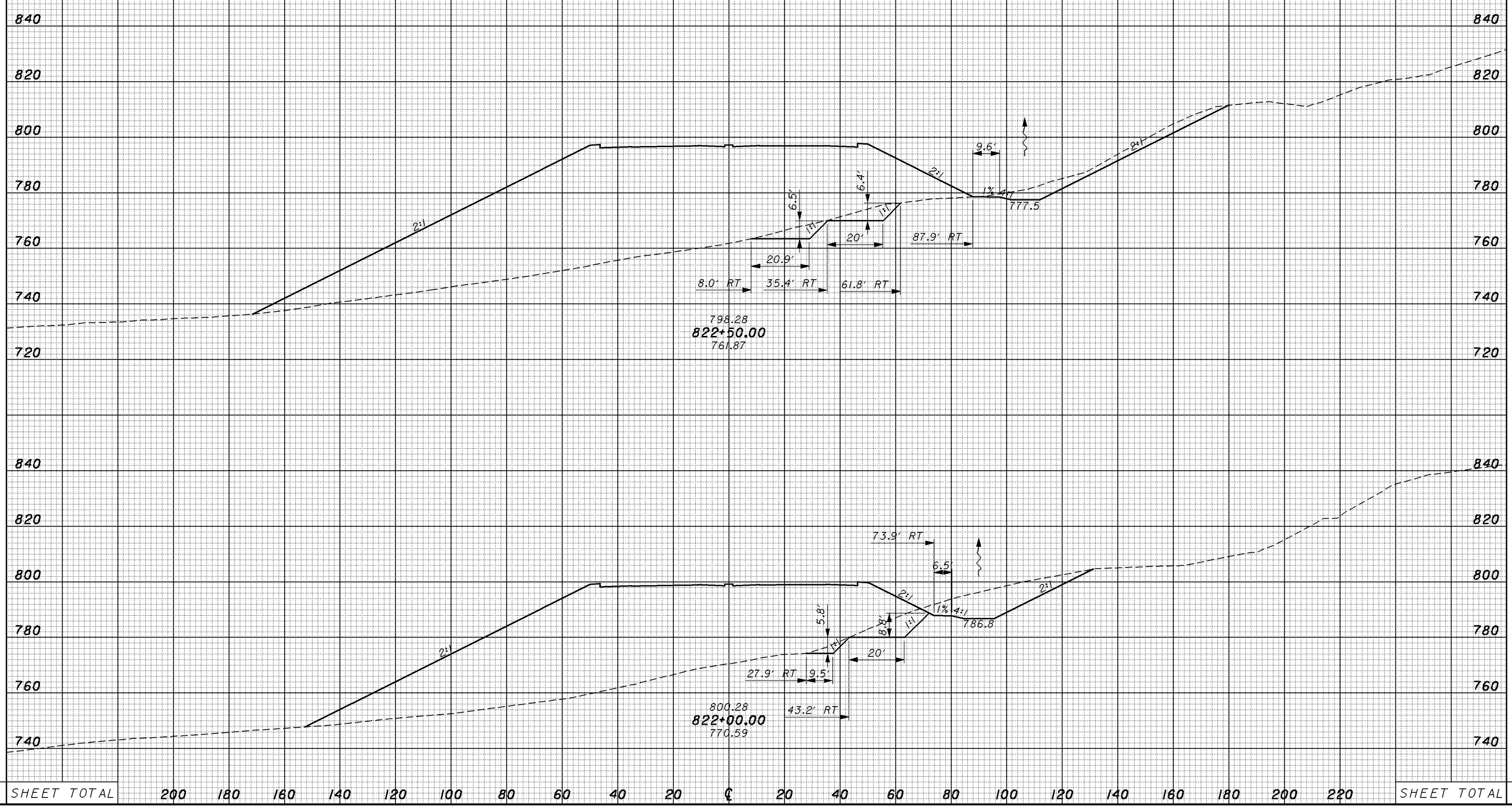
CROSS SECTIONS - SR 823
STA. 821+00.00 TO STA. 821+50.00

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

11/23/2007 8:53 AM
\\aries\PlanSets-400_sci823_half.pen
meiben 1945xs056_ch.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - SR 823
STA. 822+00.00 TO STA. 822+50.00

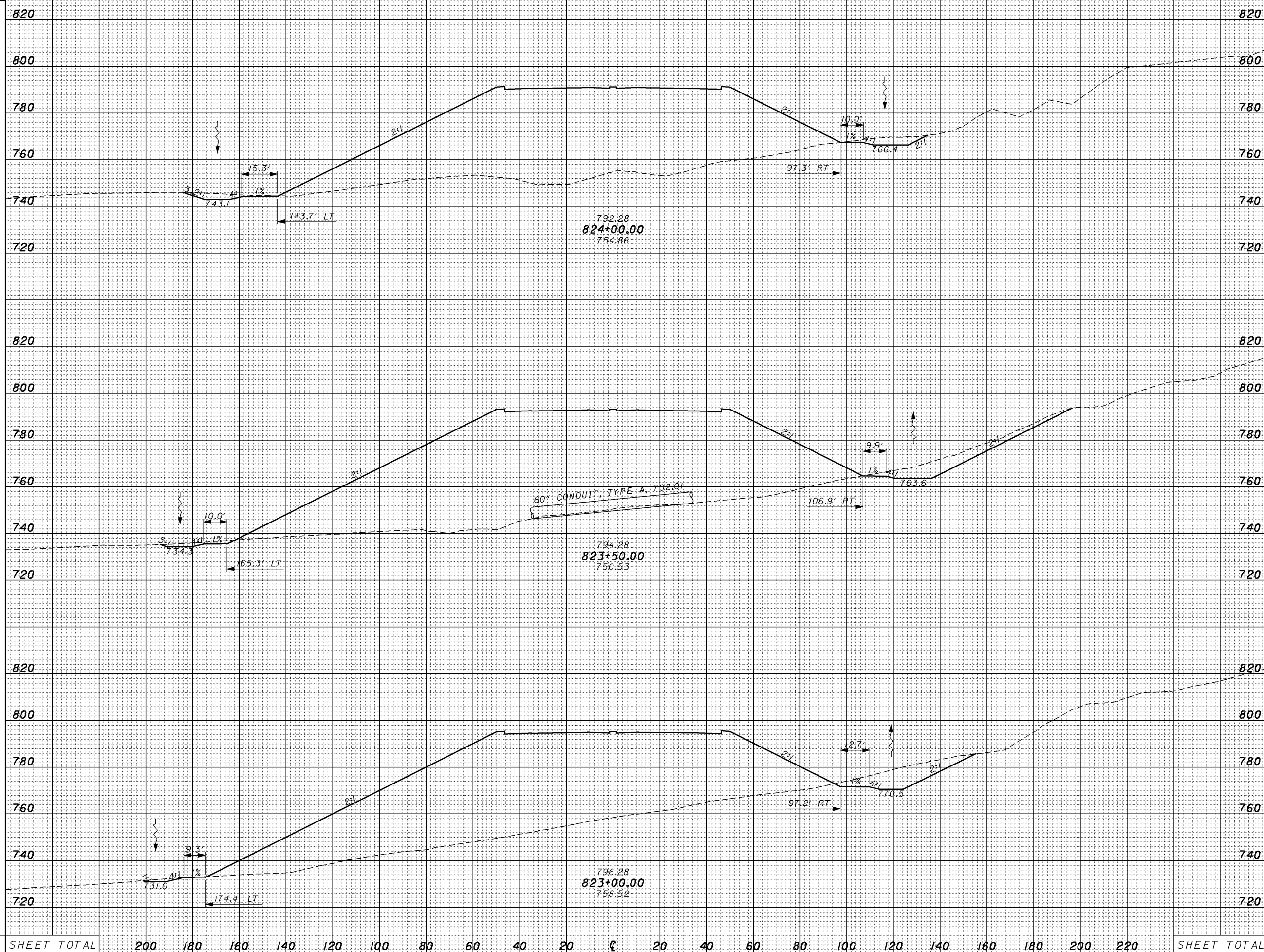
SCI-823-10.13

457

11/23/2007 8:53 AM \\aries\plansets-400_sci823_half.pen
meiben 1945xs057_ch.dgn

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

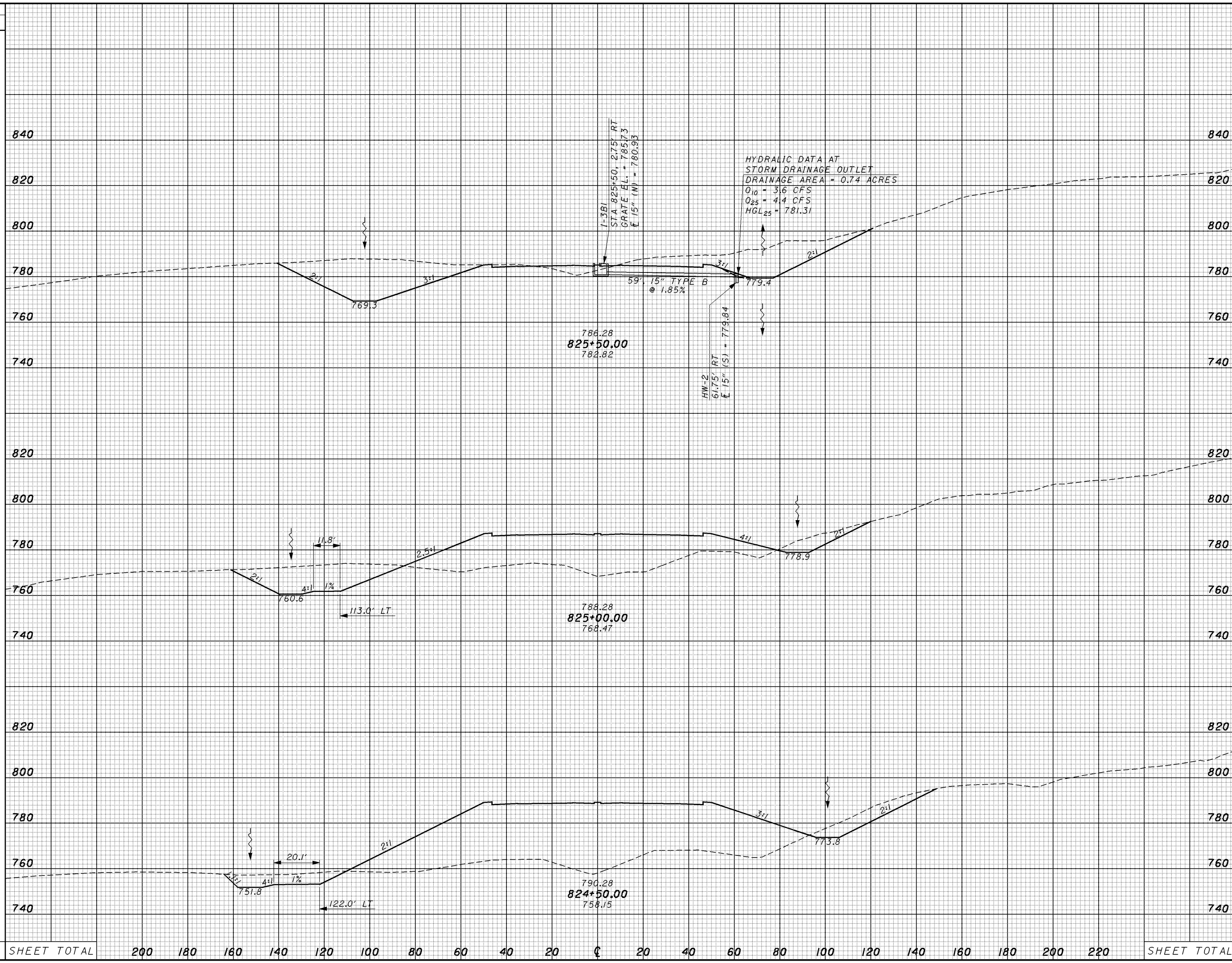


SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - SR 823
 STA. 823+00.00 TO STA. 824+00.00

SCI-823-10.13

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 8:53 AM
 \\aries\PlanSets-400_sci823_half.pen
 meiben 1945xs058_ch.dgn



END	AREA		VOLUME		CALCULATED	CHECKED																
	CUT	FILL	CUT	FILL			MME	ADW														
840																						
820																						
800																						
780																						
760																						
740																						
820																						
800																						
780																						
760																						
740																						
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

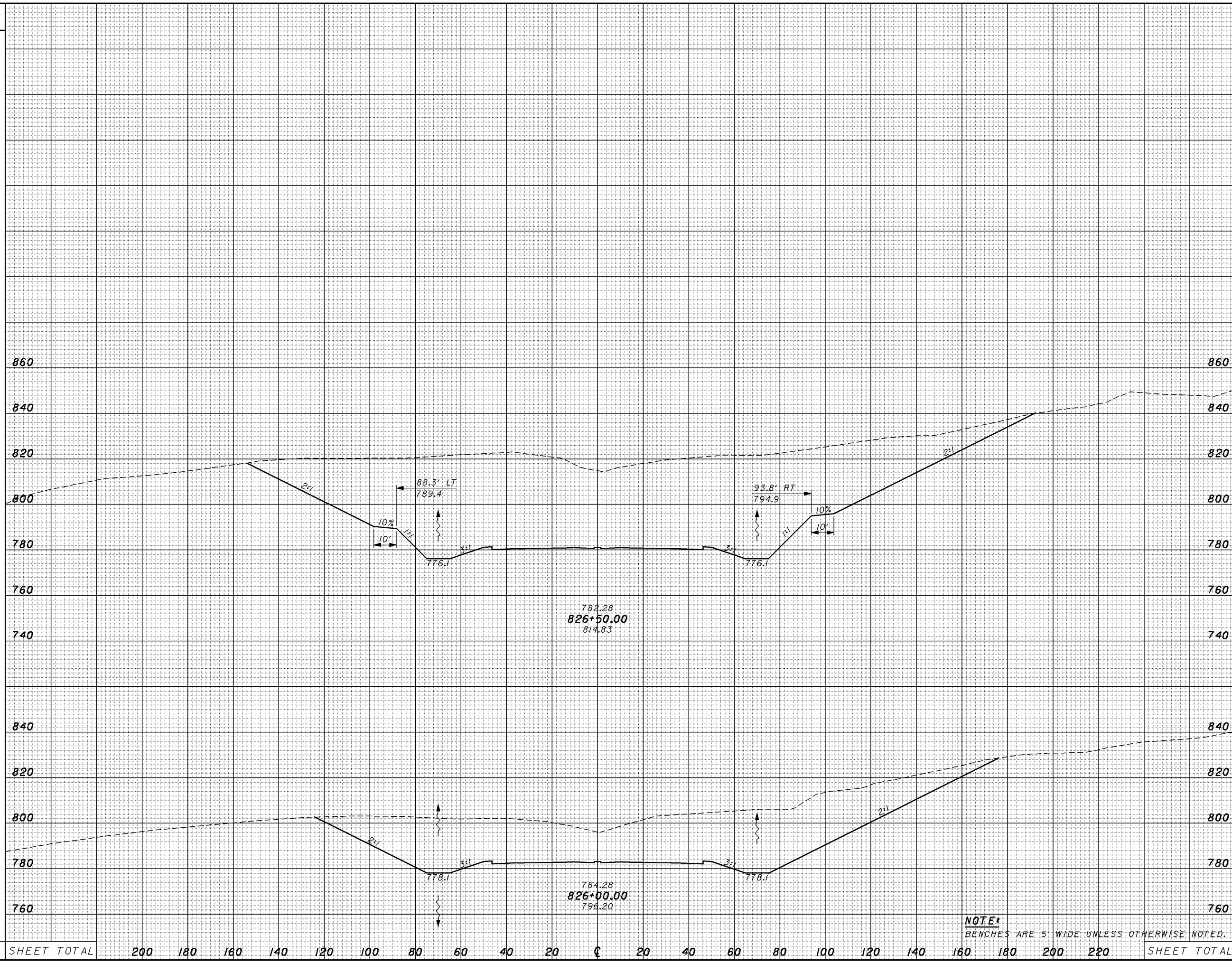
CROSS SECTIONS - SR 823
 STA. 824+50.00 TO STA. 825+50.00

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

11/23/2007 8:54 AM
\\aries\plansets-400_sci823_half.pen
meiben 19415xs059_ch.dgn



NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - SR 823
STA. 826+00.00 TO STA. 826+50.00

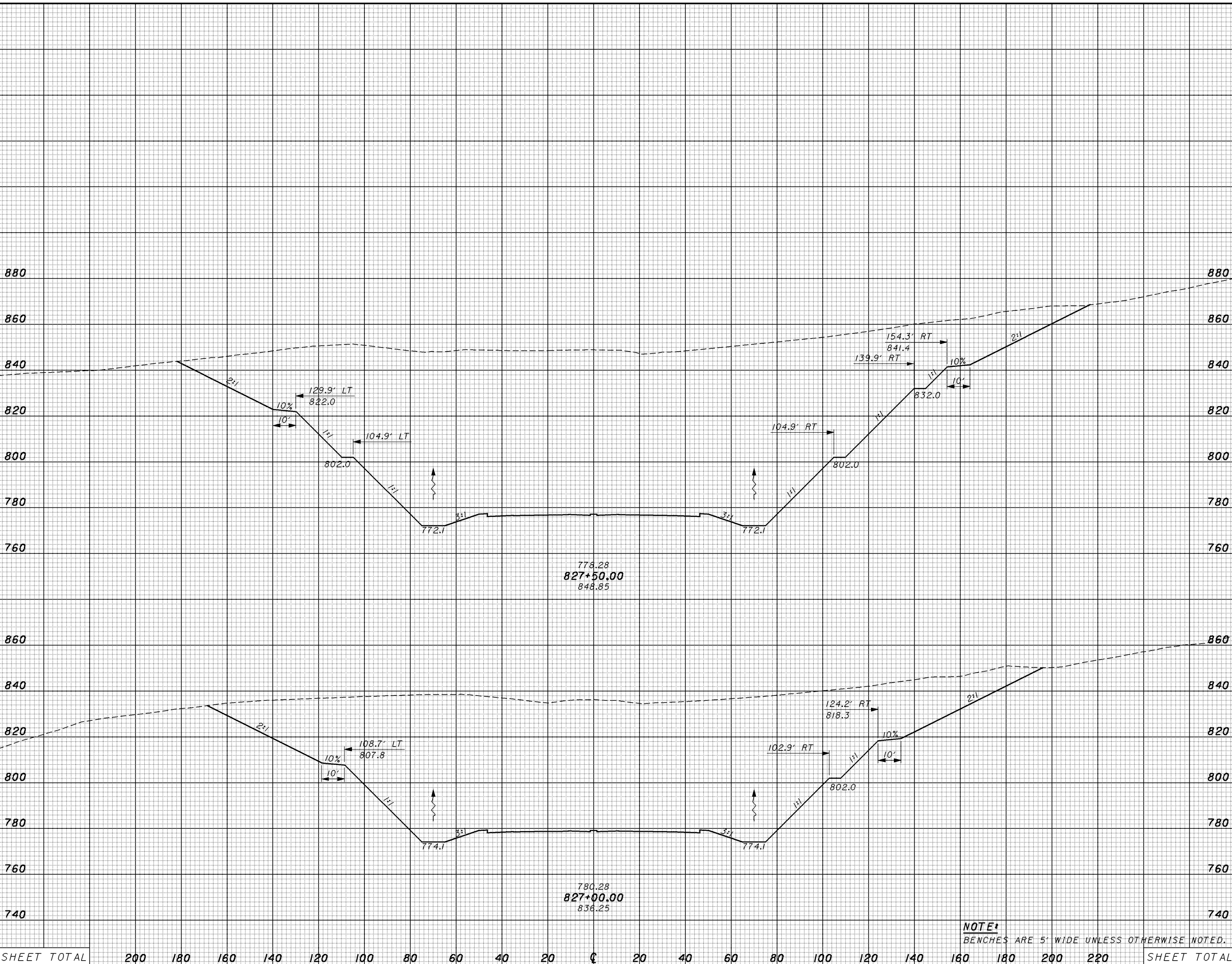
SCI-823-10.13

460

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

11/23/2007 8:54 AM
\\aries\plansets-400_sci823_half.pen
meiben 1945xs060_cn.dgn



NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

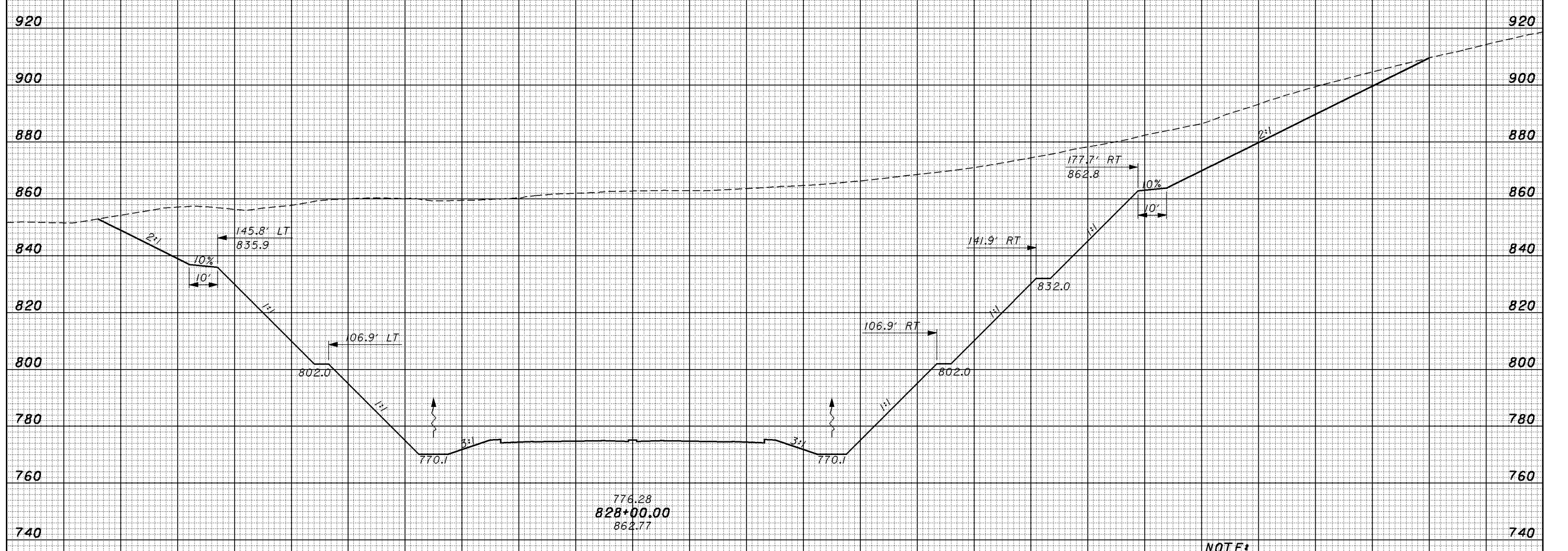
CROSS SECTIONS - SR 823
STA. 827+00.00 TO STA. 827+50.00

SCI-823-10.13

461

SEEDING
 END WIDTH SQ. YDS.
 MEIBEN 11/23/2007 8:54 AM
 19415xs06_ch.dgn \\aries\plansets-400_sci823_half.pen

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MME	ADW



SEEDING	END WIDTH	SQ. YDS.	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	240	260	SHEET TOTAL

NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR 823
 STA. 828+00.00

SCI-823-10.13

11/23/2007 8:54 AM \\aries\plansets-400_sci823_half.pen
meiben 19415xs062_ch.dgn

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



SHEET TOTAL	400	380	360	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	SHEET TOTAL
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NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

774.28
828+50.00
878.43

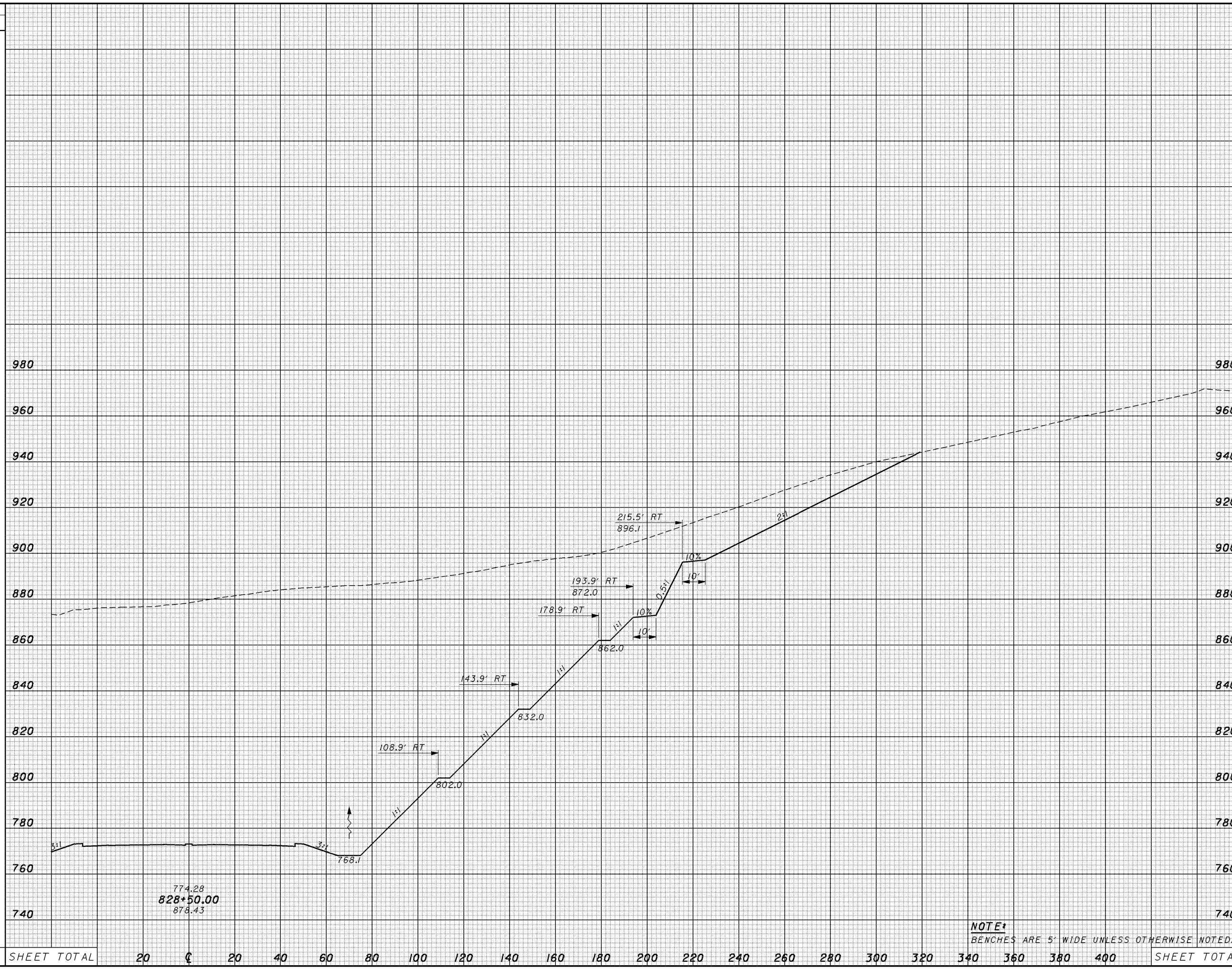
CROSS SECTIONS - SR 823
STA. 828+50.00 LT.

SCI-823-10.13

463

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 8:55 AM
 \\aries\plansets-400_sci823_half.pen
 meiben 19415xs063_ch.dgn

END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		



SEEDING	END WIDTH	SQ. YDS.	SHEET TOTAL		20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	SHEET TOTAL

CROSS SECTIONS - SR 823
 STA. 828+50.00 RT.

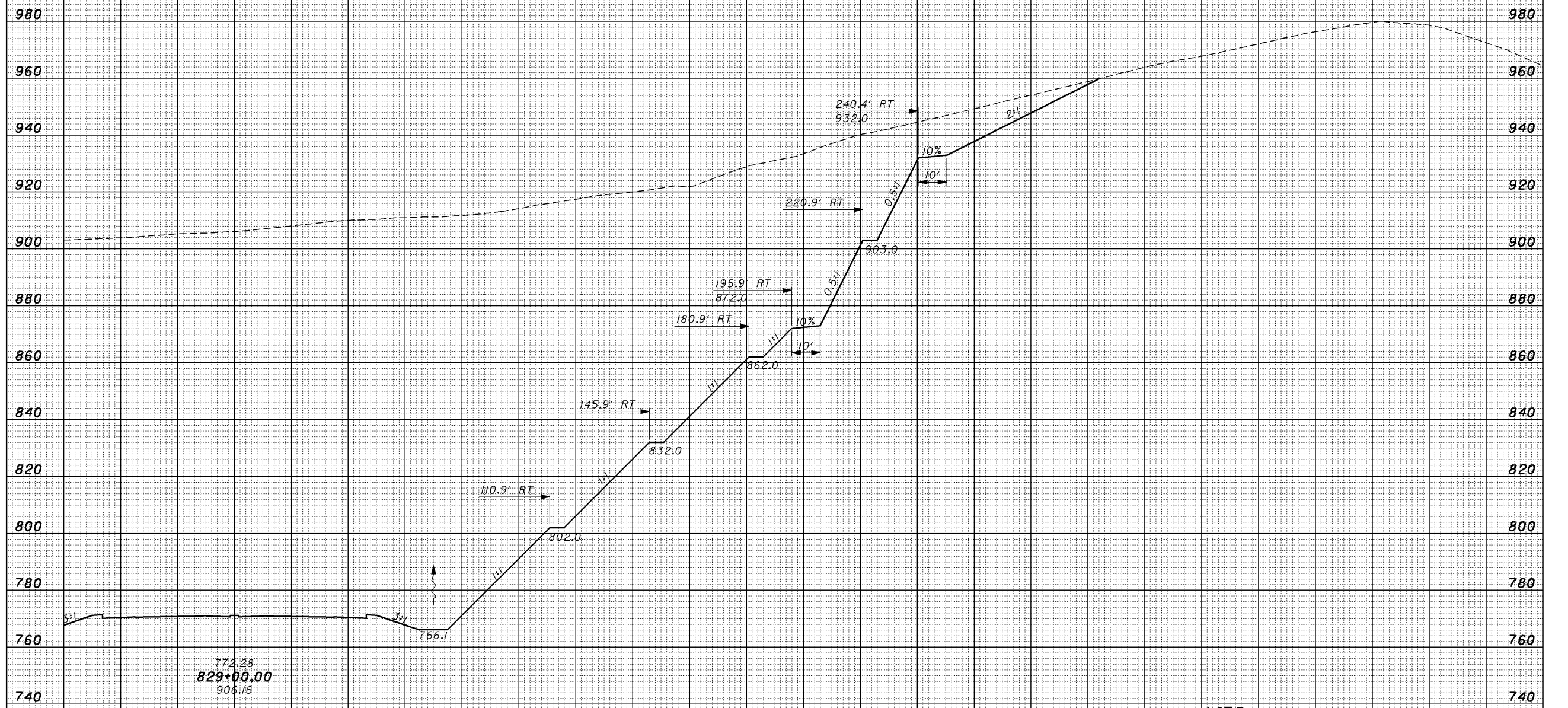
SCI-823-10.13

SEEDING

END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MME
CHECKED
ADW



11/23/2007 8:56 AM \\aries\PlanSets-400_sci823_half.pen

meiben 1945xs065_ch.dgn

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL	20	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	SHEET TOTAL
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CROSS SECTIONS - SR 823
STA. 829+00.00 RT.

SCI-823-10.13

466

SEEDING
END WIDTH SQ. YDS.

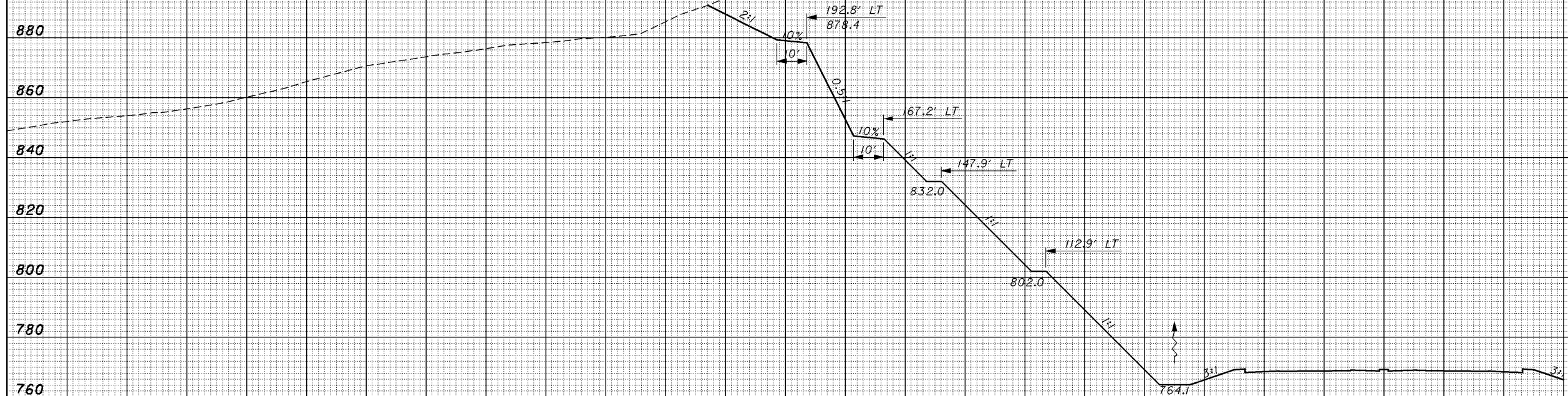
END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	MME	ADW

11/23/2007 8:56 AM
\\aries\plansets-400_sci823_half.pen
meiben 19415xs066.ch.dgn

1000
980
960
940
920
900
880
860
840
820
800
780
760
740
720

1000
980
960
940
920
900
880
860
840
820
800
780
760
740
720

SHEET TOTAL 400 380 360 340 320 300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 SHEET TOTAL



770.28
829+50.00
937.36

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

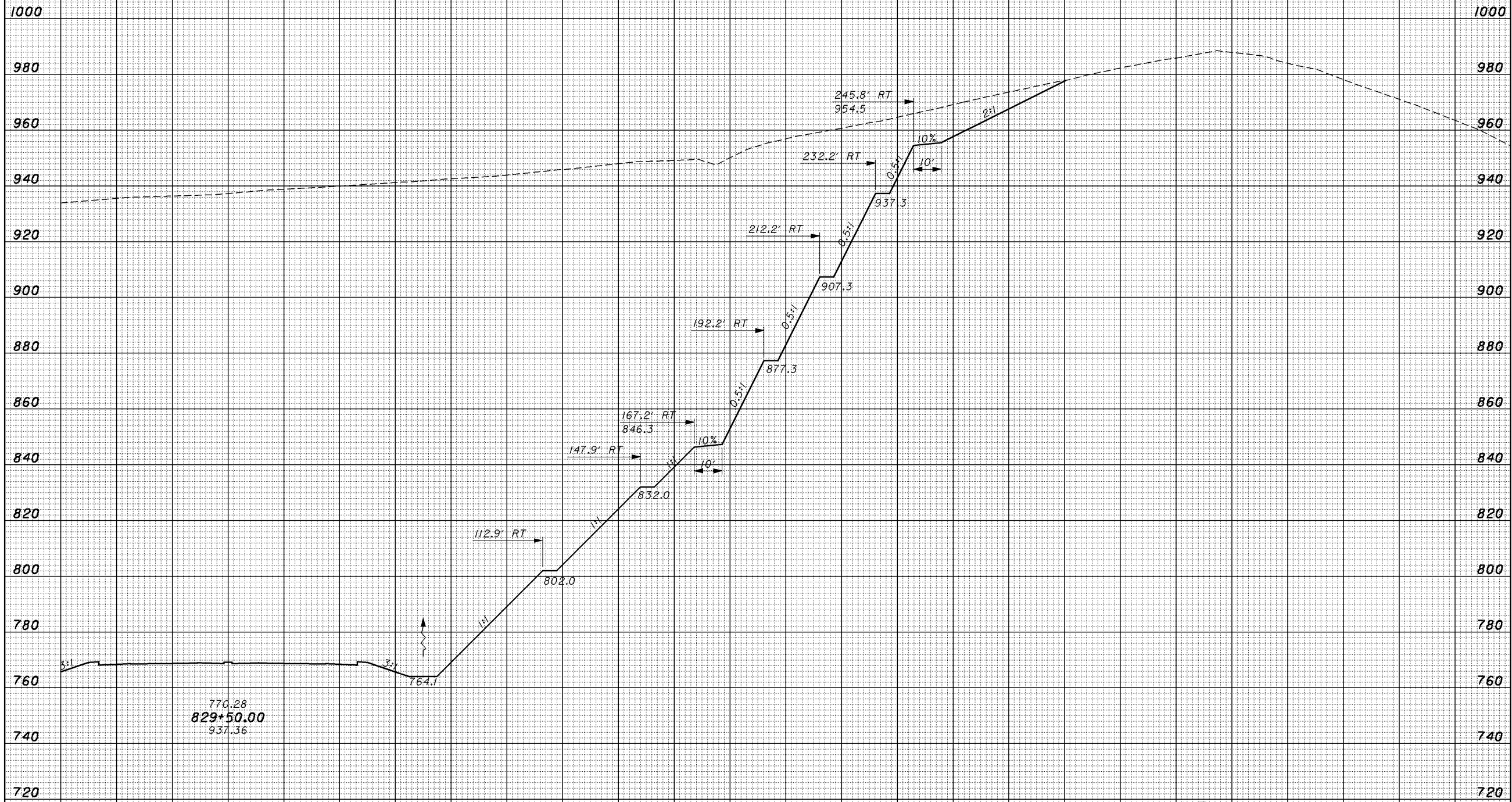
CROSS SECTIONS - SR 823
STA. 829+50.00 LT.

SCI-823-10.13

467

SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		



770.28
829+50.00
937.36

NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

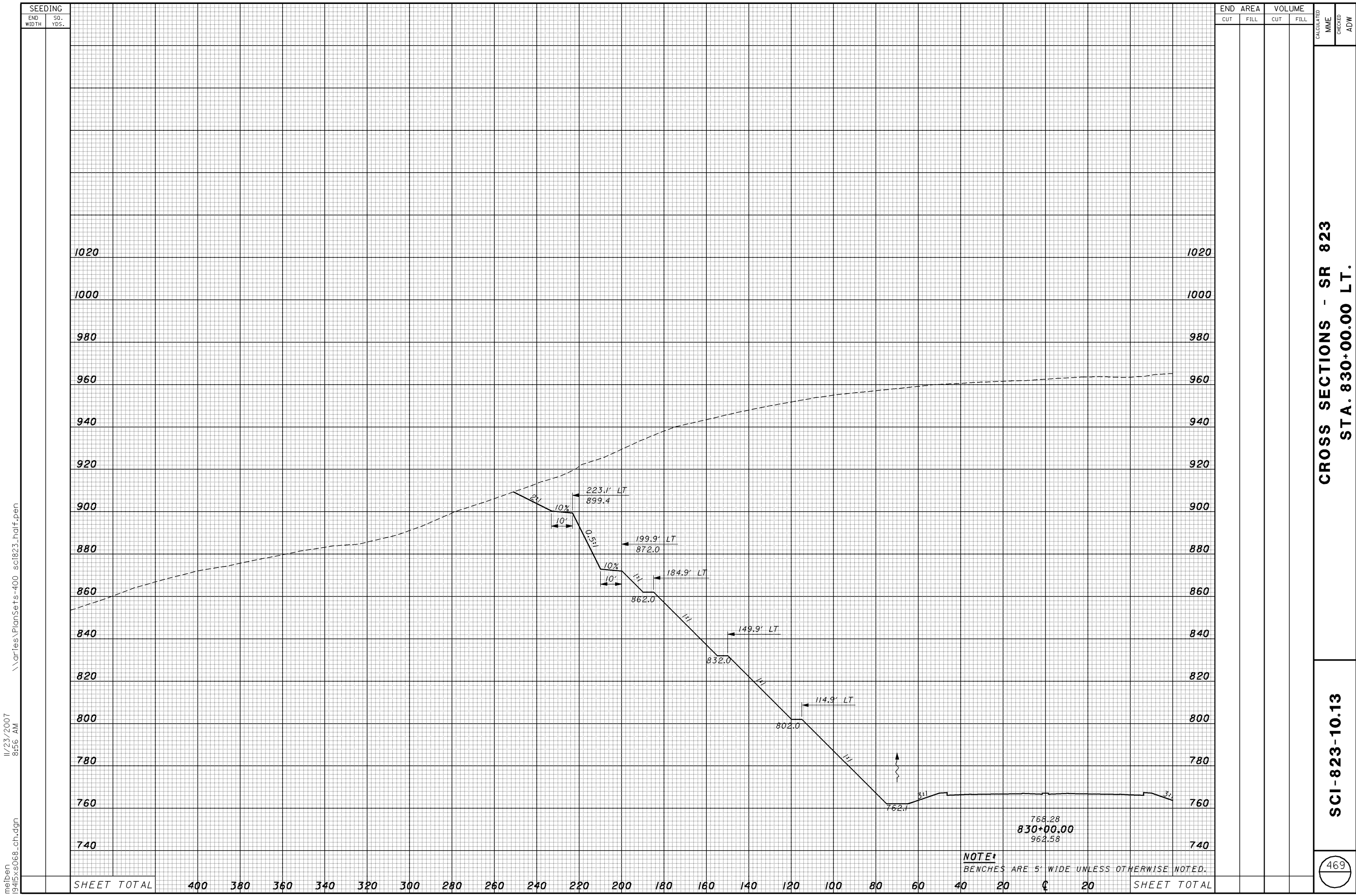
SEEDING	END WIDTH	SQ. YDS.	CUT		FILL		SHEET TOTAL	

11/23/2007 8:56 AM
\\aries\plansets-400_sci823_half.pen
meiben 1945xs067_ch.dgn

**CROSS SECTIONS - SR 823
STA. 829+50.00 RT.**

SCI-823-10.13

468



SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 8:56 AM
 \\aries\PlanSets-400_sci823_half.pen
 melben 19415xs068_ch.dgn

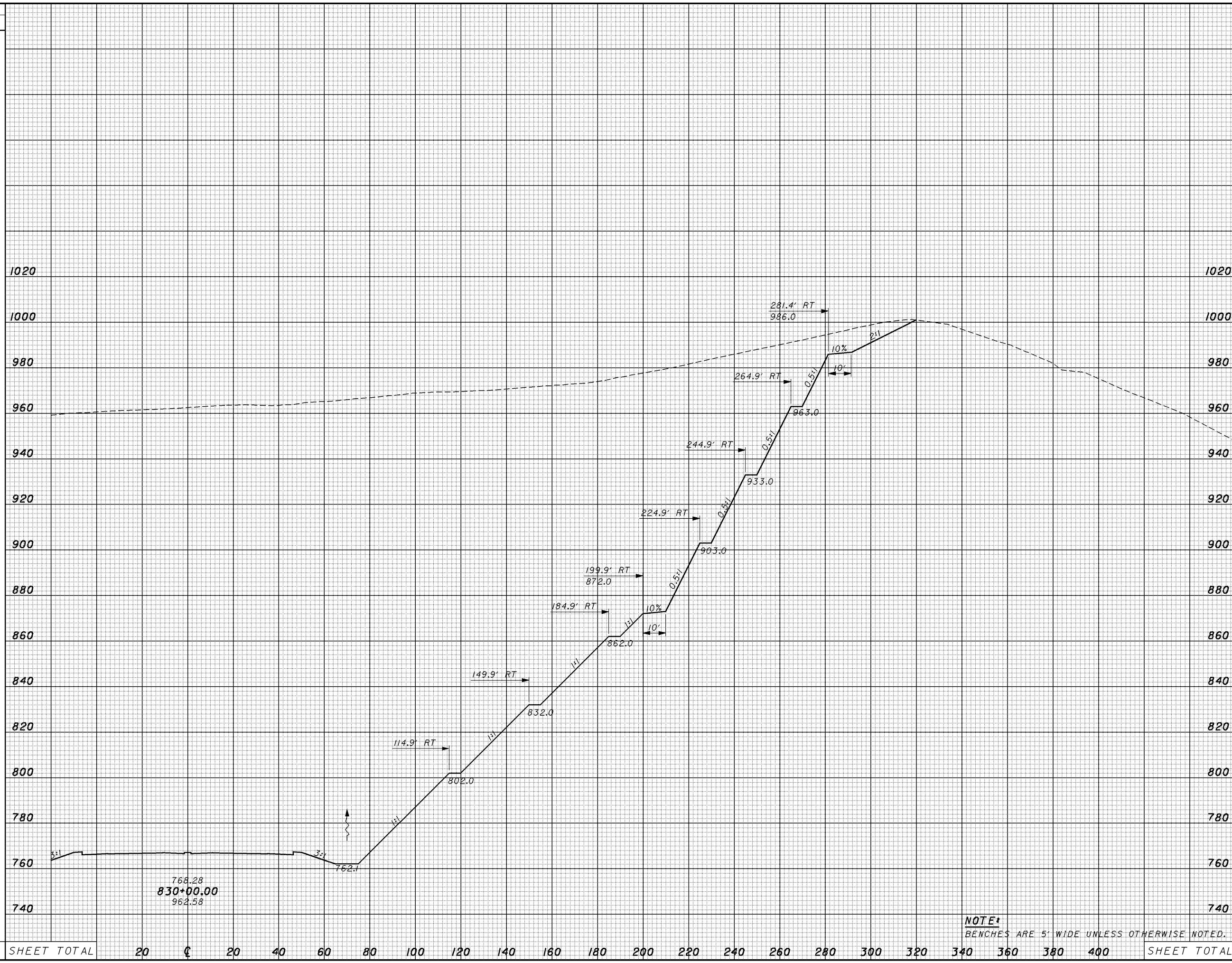
STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
1020				
1000				
980				
960				
940				
920				
900				
880				
860				
840				
820				
800				
780				
760				
740				
SHEET TOTAL	400	380	360	340
	320	300	280	260
	240	220	200	180
	160	140	120	100
	80	60	40	20
	CL	20		
				SHEET TOTAL

CROSS SECTIONS - SR 823
 STA. 830+00.00 LT.

SCI-823-10.13

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 8:57 AM
 \\aries\plansets-400_sci823_half.pen
 melben 1945xs069_ch.dgn

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		
				MME	ADW



CROSS SECTIONS - SR 823
 STA. 830+00.00 RT.

SCI-823-10.13

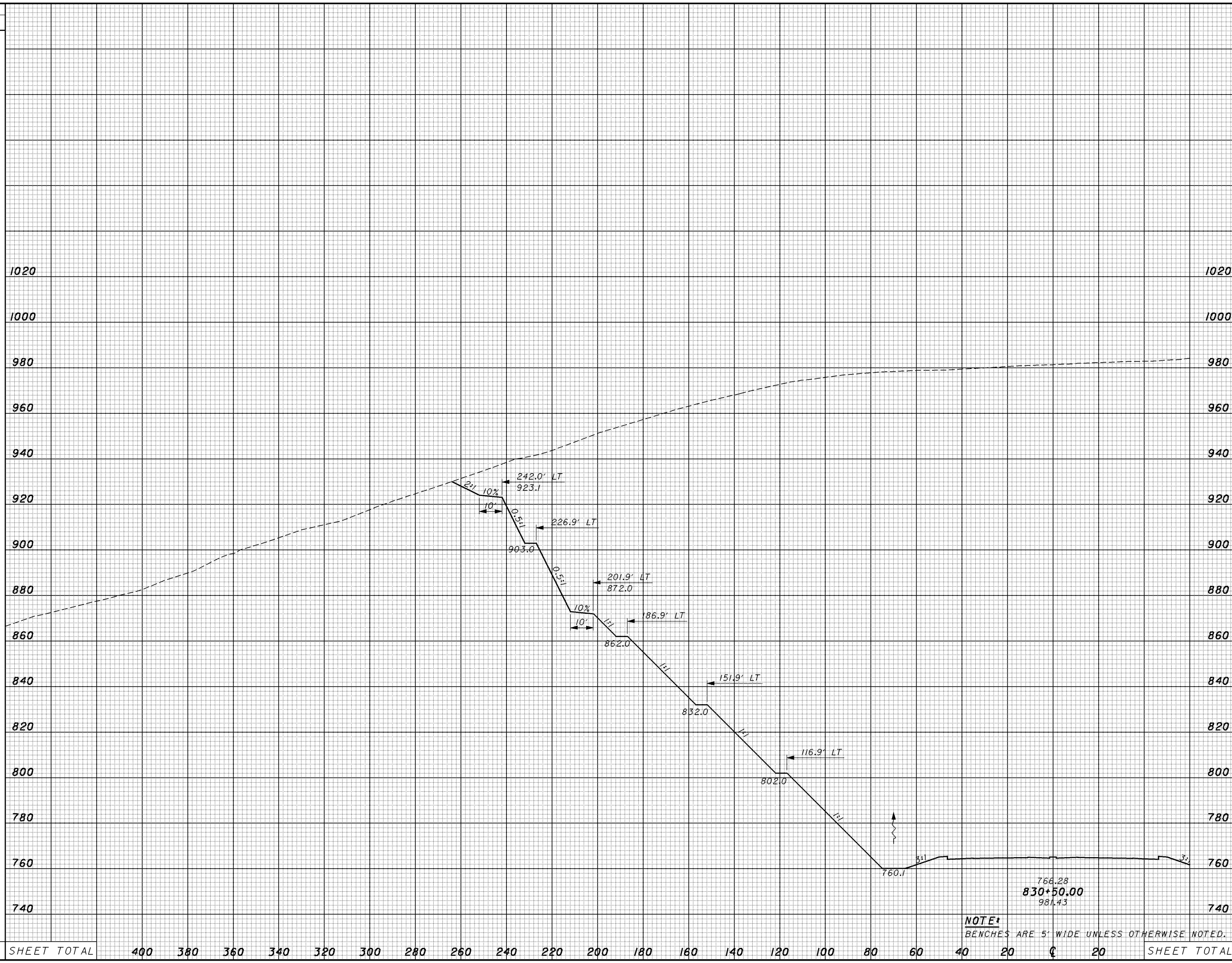
470

NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SEEDING	END WIDTH	SQ. YDS.	SHEET TOTAL	
			20	20
			40	60
			80	100
			120	140
			160	180
			200	220
			240	260
			280	300
			320	340
			360	380
			400	SHEET TOTAL

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 8:57 AM
 \\aries\PlanSets-400_sci823_half.pen
 melben 19415xs070_ch.dgn

END AREA		VOLUME		CALCULATED	MME	CHECKED	ADW
CUT	FILL	CUT	FILL				



SHEET TOTAL	400	380	360	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	SHEET TOTAL
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766.28
 830+50.00
 981.43

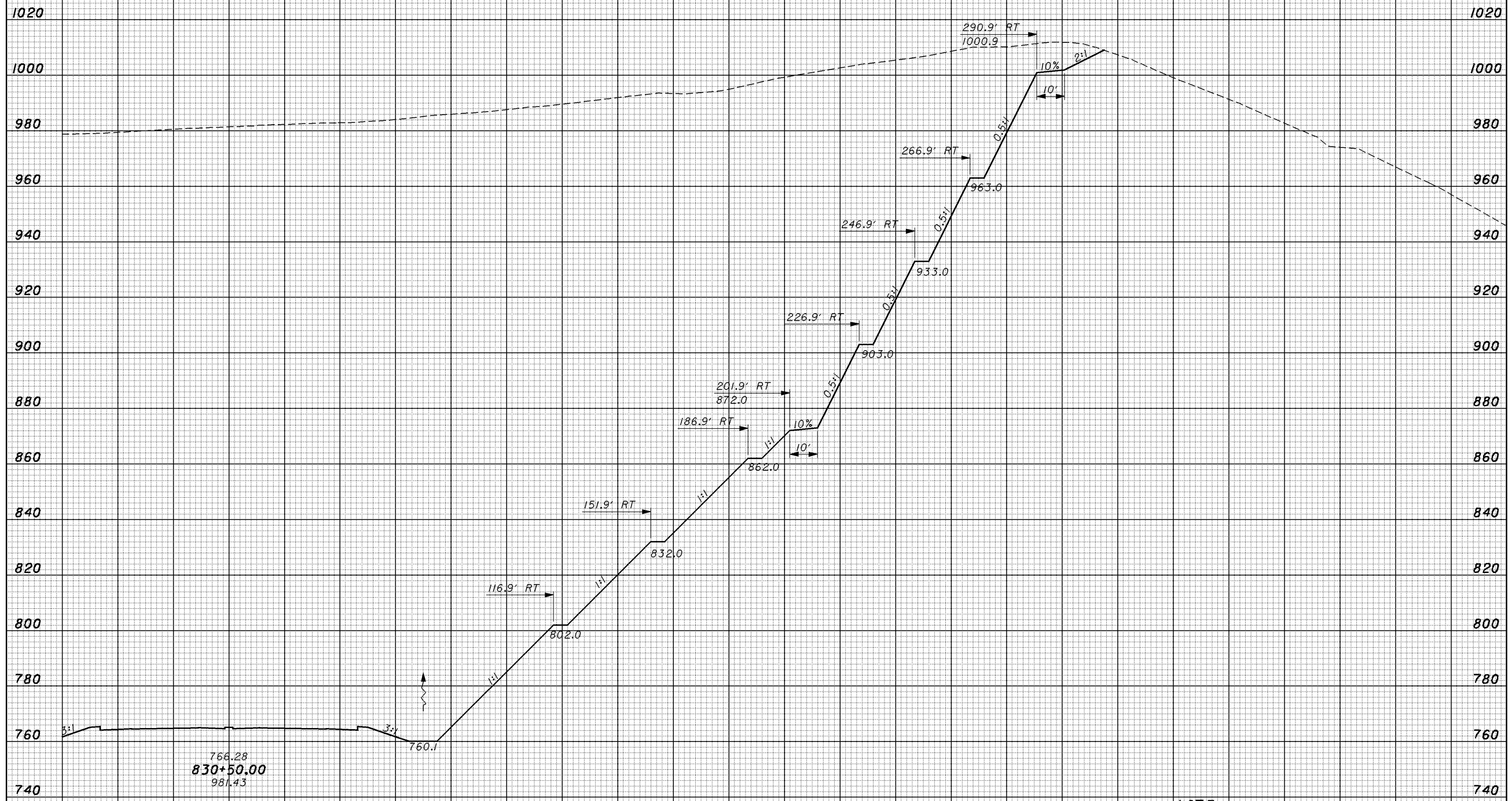
NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR 823
 STA. 830+50.00 LT.

SCI-823-10.13

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 8:57 AM
 \\aries\plansets-400_sci823_half.pen
 melben 1945xs071_ch.dgn

END AREA		VOLUME		CALCULATED	MME	CHECKED	ADW
CUT	FILL	CUT	FILL				

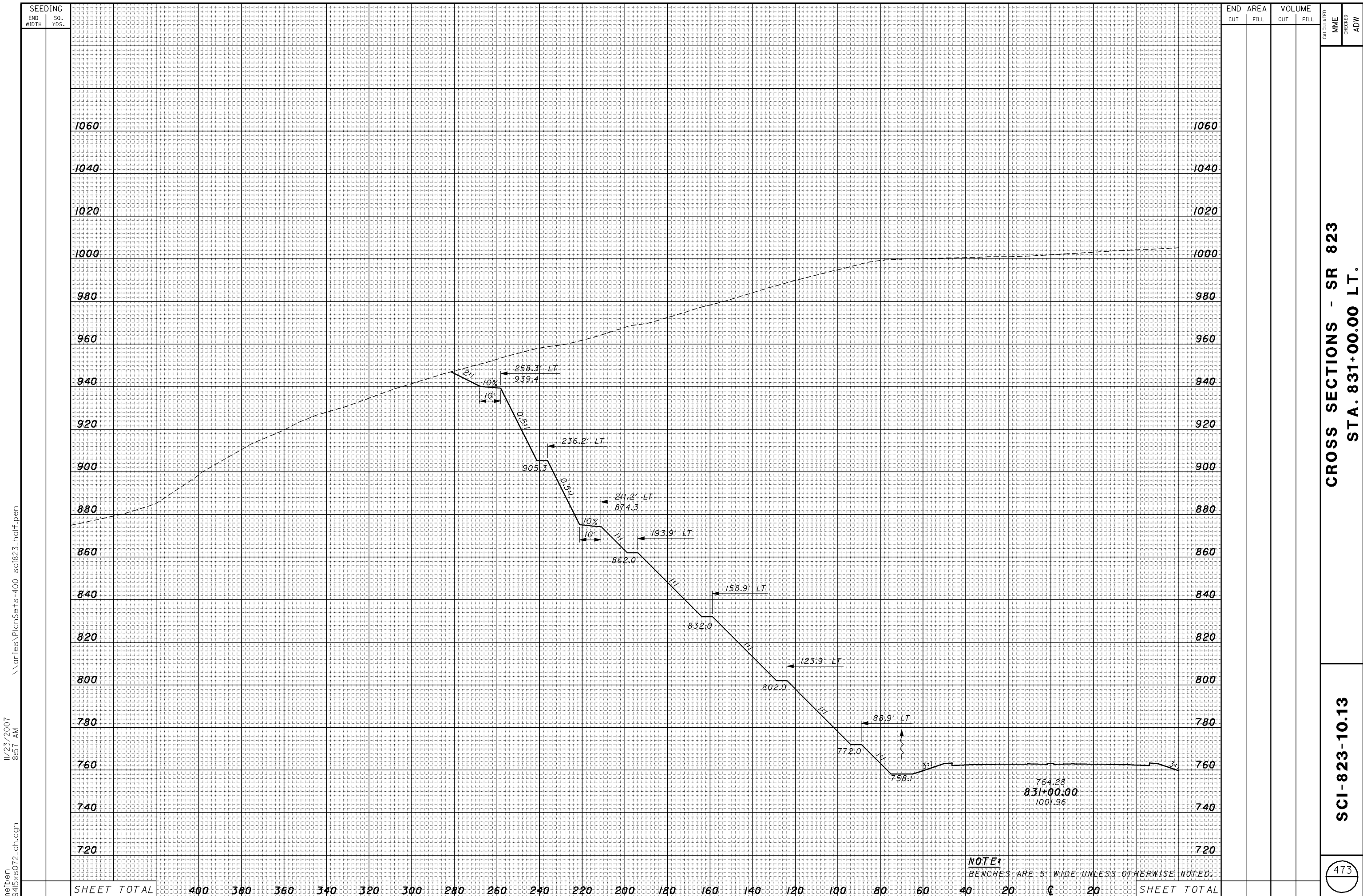


SEEDING	END WIDTH	SQ. YDS.	SHEET TOTAL		20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	SHEET TOTAL	

NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR 823
 STA. 830+50.00 RT.

SCI-823-10.13



meiben
19415xs072_ch.dgn
11/23/2007
8:57 AM
\\aries\PlanSets-400_sci823_half.pen

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL

CROSS SECTIONS - SR 823
STA. 831+00.00 LT.

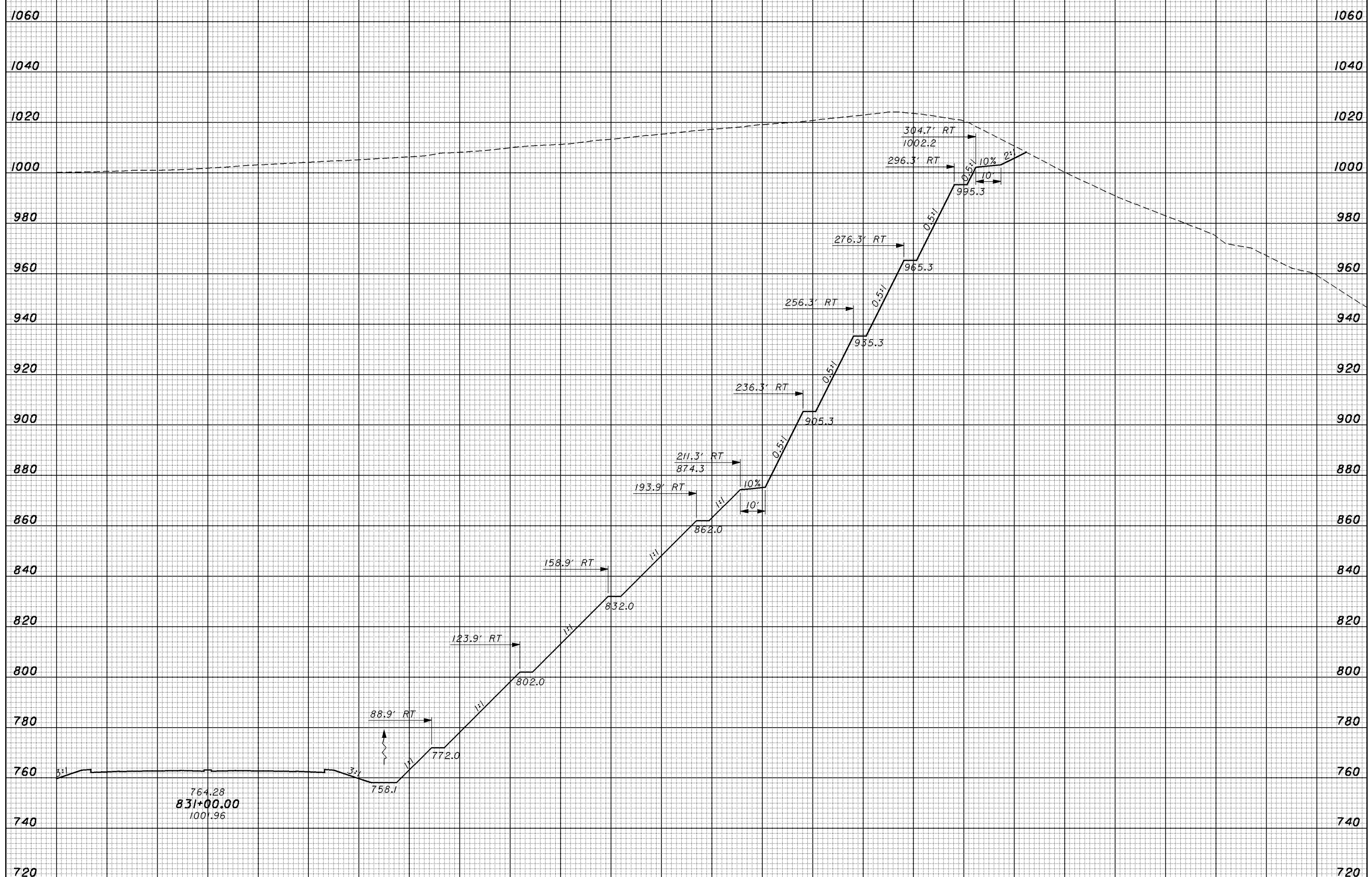
SCI-823-10.13

SHEET TOTAL	400	380	360	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	C	20	SHEET TOTAL
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SEEDING

END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



SHEET TOTAL	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	SHEET TOTAL
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NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR 823
STA. 831+00.00 RT.

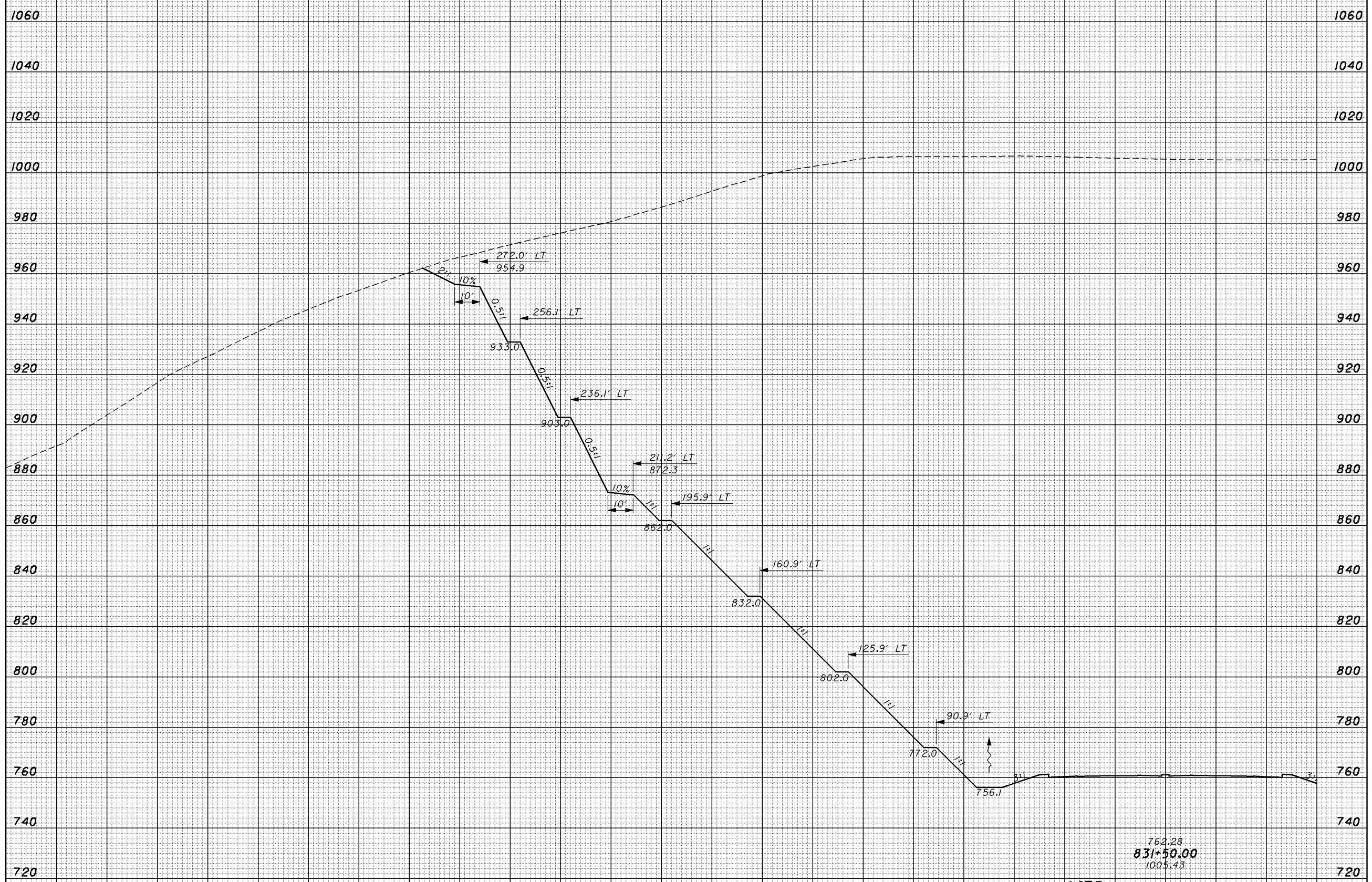
SCI-823-10.13

11/23/2007 8:58 AM \\aries\PlanSets-400_sci823_half.pen
meiben 1945xs073_ch.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	MME
CHECKED	ADW



762.28
831+50.00
1005.43

NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL	400	380	360	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	SHEET TOTAL
-------------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	-------------

CROSS SECTIONS - SR 823
STA. 831+50.00 LT.

SCI-823-10.13

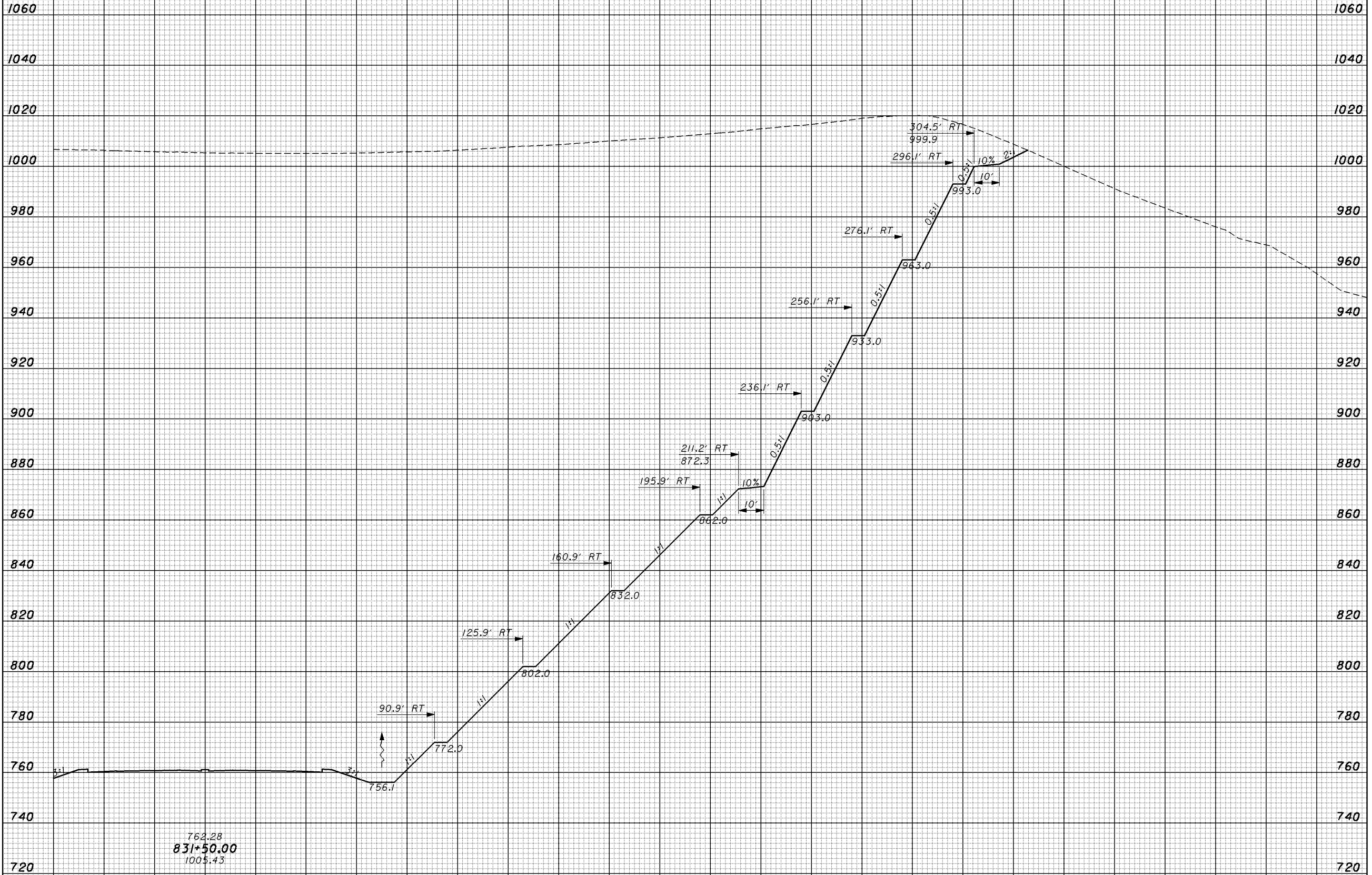
475

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 melben 1945xs074_ch.dgn

SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	MME
CHECKED	ADW



NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

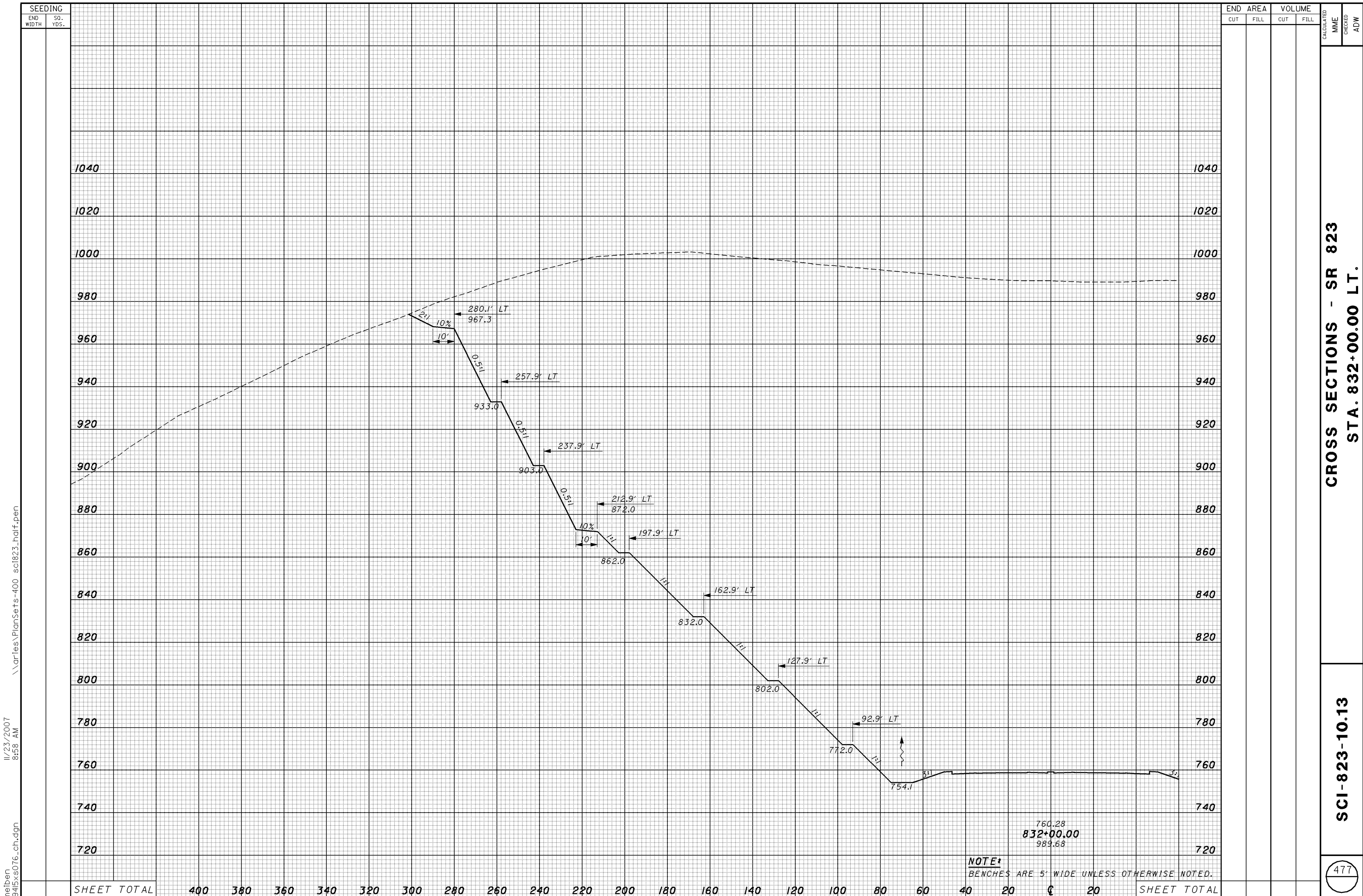
SHEET TOTAL 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 SHEET TOTAL

**CROSS SECTIONS - SR 823
STA. 831+50.00 RT.**

SCI-823-10.13

(476)

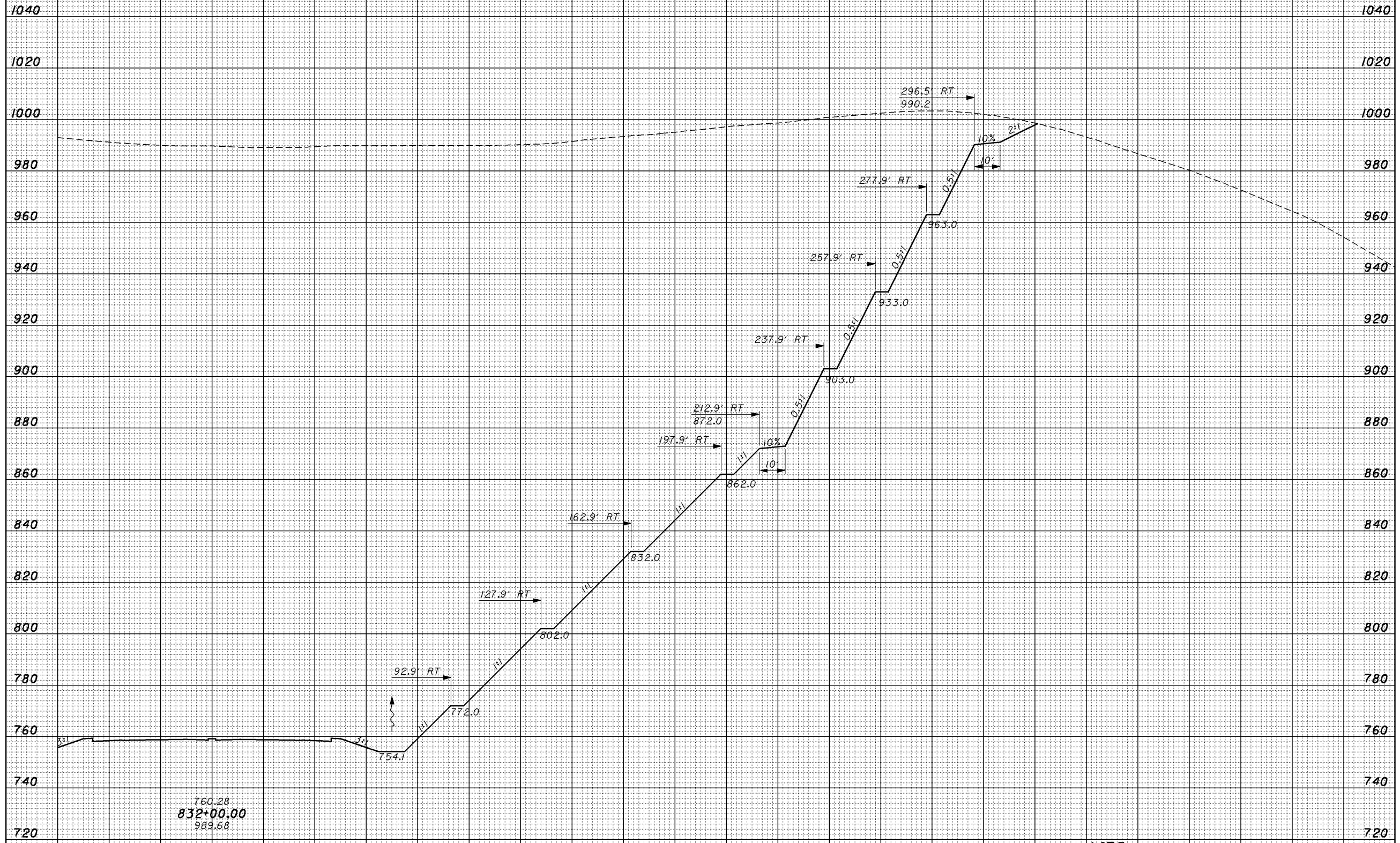
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 meiben 1945xs075_ch.dgn



SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

11/23/2007 8:59 AM
\\aries\PlanSets-400_sci823_half.pen
meiben 1945xs077_ch.dgn



760.28
832+00.00
989.68

NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 SHEET TOTAL

CROSS SECTIONS - SR 823
STA. 832+00.00 RT.

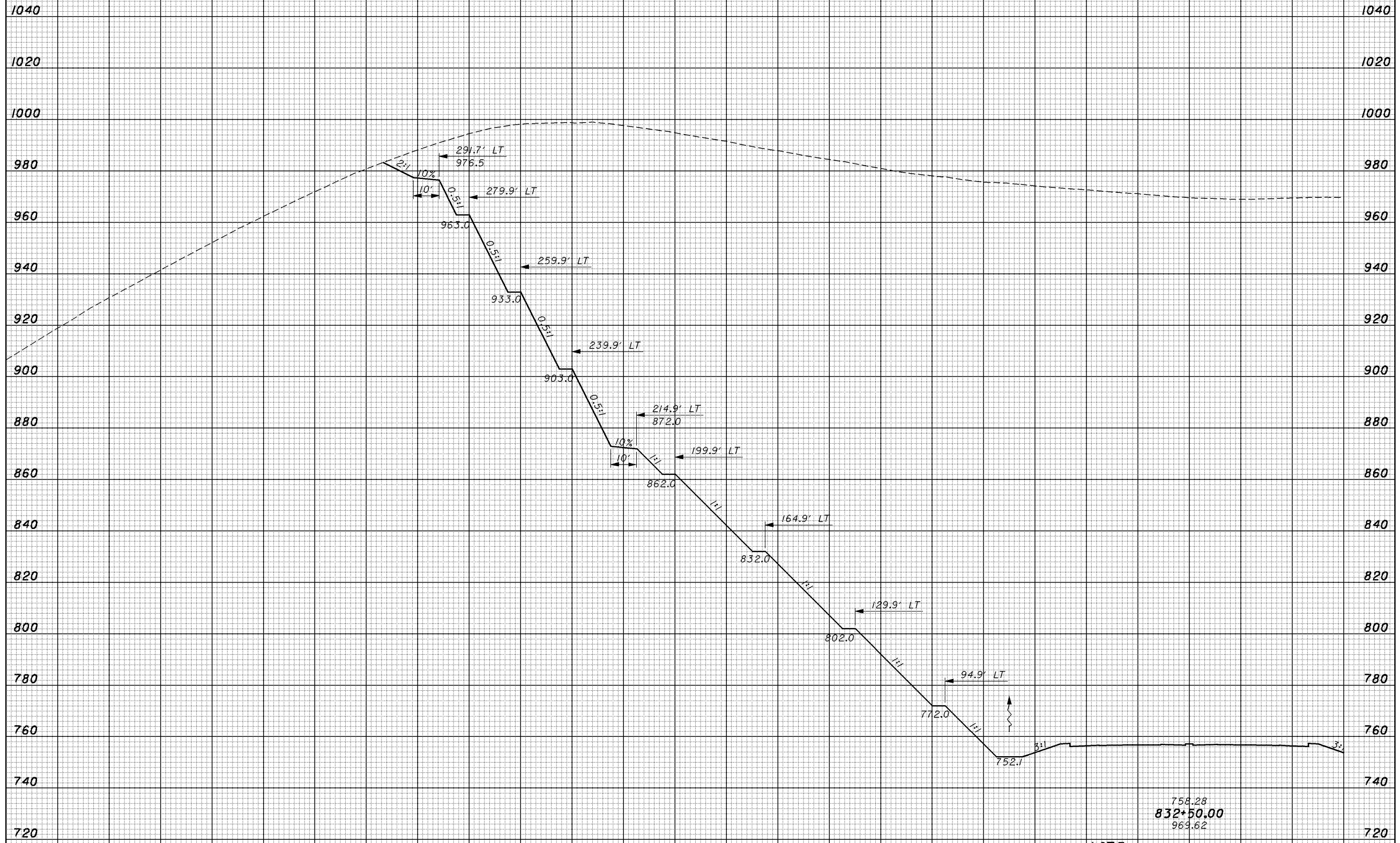
SCI-823-10.13

SEEDING

END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	MME	CHECKED	ADW



758.28
832+50.00
969.62

NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL	400	380	360	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	SHEET TOTAL
-------------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	-------------

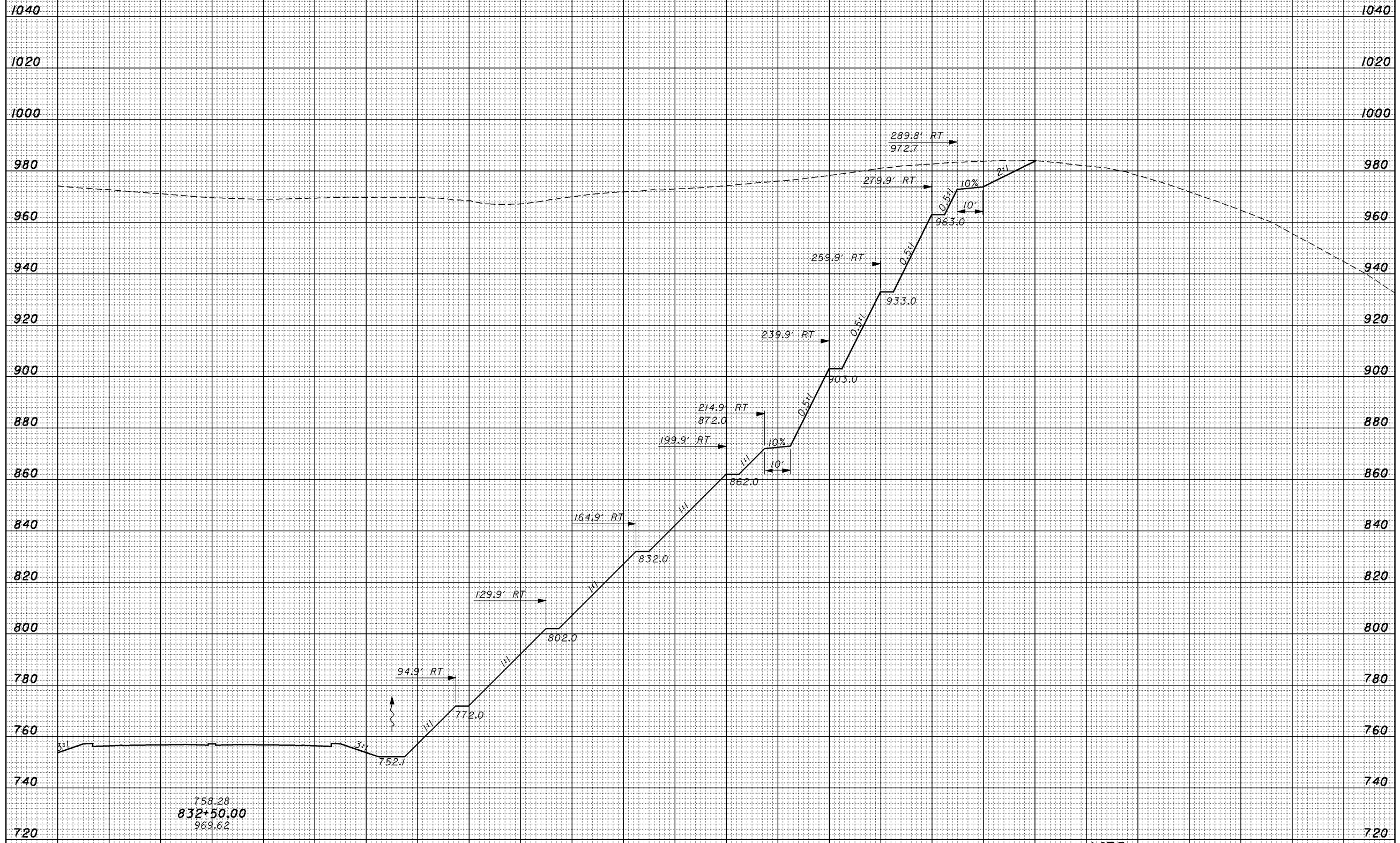
CROSS SECTIONS - SR 823
STA. 832+50.00 LT.

SCI-823-10.13

SEEDING
 END WIDTH SO. YDS.
 11/23/2007 8:59 AM
 \\aries\PlanSets-400_sci823_half.pen
 meiben 1945xs079_ch.dgn

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
 MME
 CHECKED
 ADW



STATION	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	SHEET TOTAL	
720																						
740																						
760																						
780																						
800																						
820																						
840																						
860																						
880																						
900																						
920																						
940																						
960																						
980																						
1000																						
1020																						
1040																						

NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

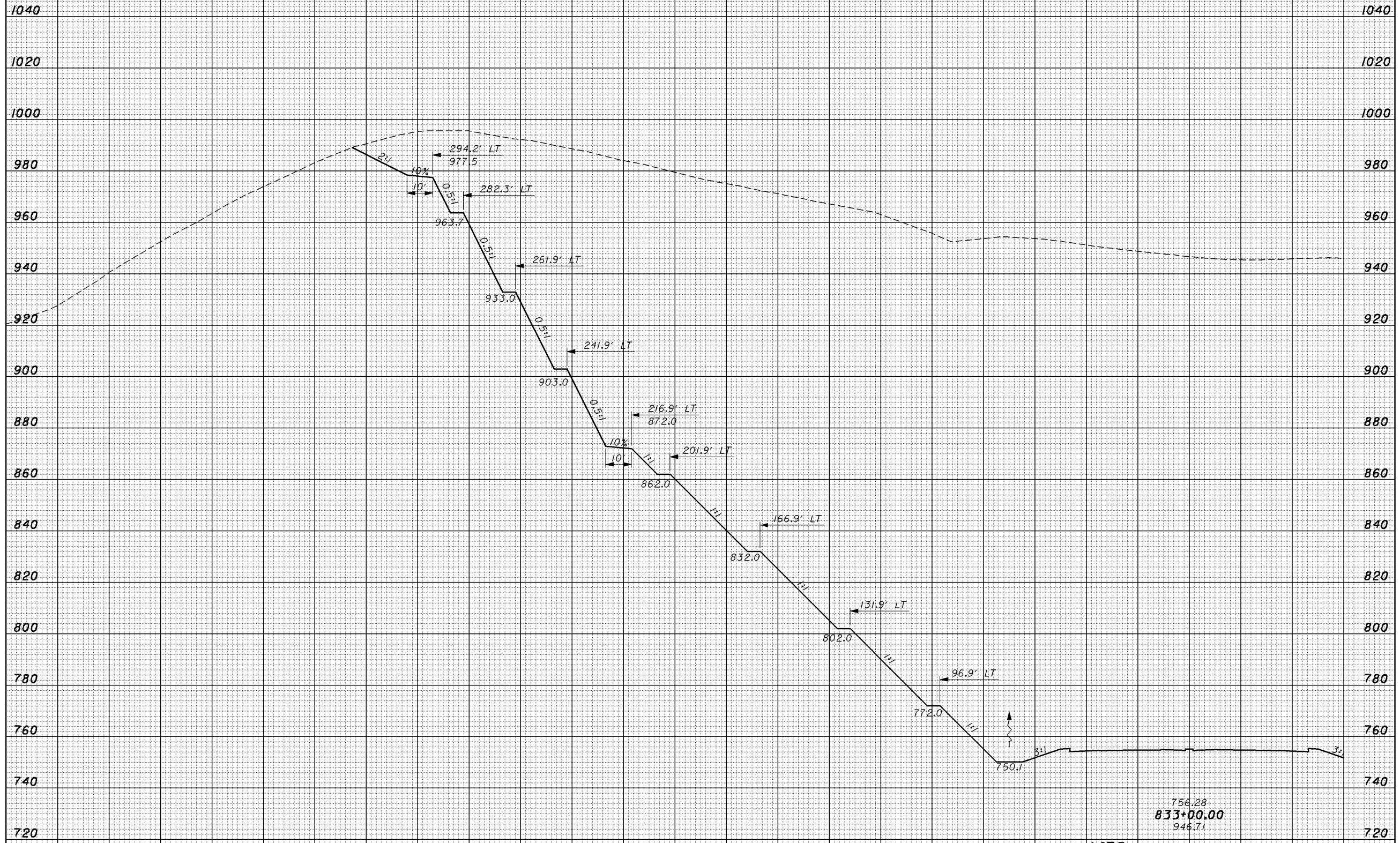
CROSS SECTIONS - SR 823
 STA. 832+50.00 RT.

SCI-823-10.13

480

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 8:59 AM
 \\aries\PlanSets-400_sci823_half.pen
 melben 1945xs080_ch.dgn

END AREA		VOLUME		CALCULATED	MME	CHECKED	ADW
CUT	FILL	CUT	FILL				



756.28
 833+00.00
 946.71

NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SEEDING	END WIDTH	SQ. YDS.	DISTANCE																SHEET TOTAL						
			400	380	360	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	SHEET TOTAL

CROSS SECTIONS - SR 823
 STA. 833+00.00 LT.

SCI-823-10.13

SEEDING

END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MME
CHECKED
ADW

1040 1040

1020 1020

1000 1000

980 980

960 960

940 940

920 920

900 900

880 880

860 860

840 840

820 820

800 800

780 780

760 760

740 740

720 720

3:1

3:1

3:1

96.9' RT

131.9' RT

166.9' RT

201.9' RT

216.9' RT

872.0

862.0

241.9' RT

261.9' RT

270.8' RT

940.8

10%

10'

935.0

903.0

903.0

872.0

862.0

832.0

802.0

772.0

750.1

756.28
833+00.00
946.71

NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL

20

20

40

60

80

100

120

140

160

180

200

220

240

260

280

300

320

340

360

380

400

SHEET TOTAL

CROSS SECTIONS - SR 823
STA. 833+00.00 RT.

SCI-823-10.13

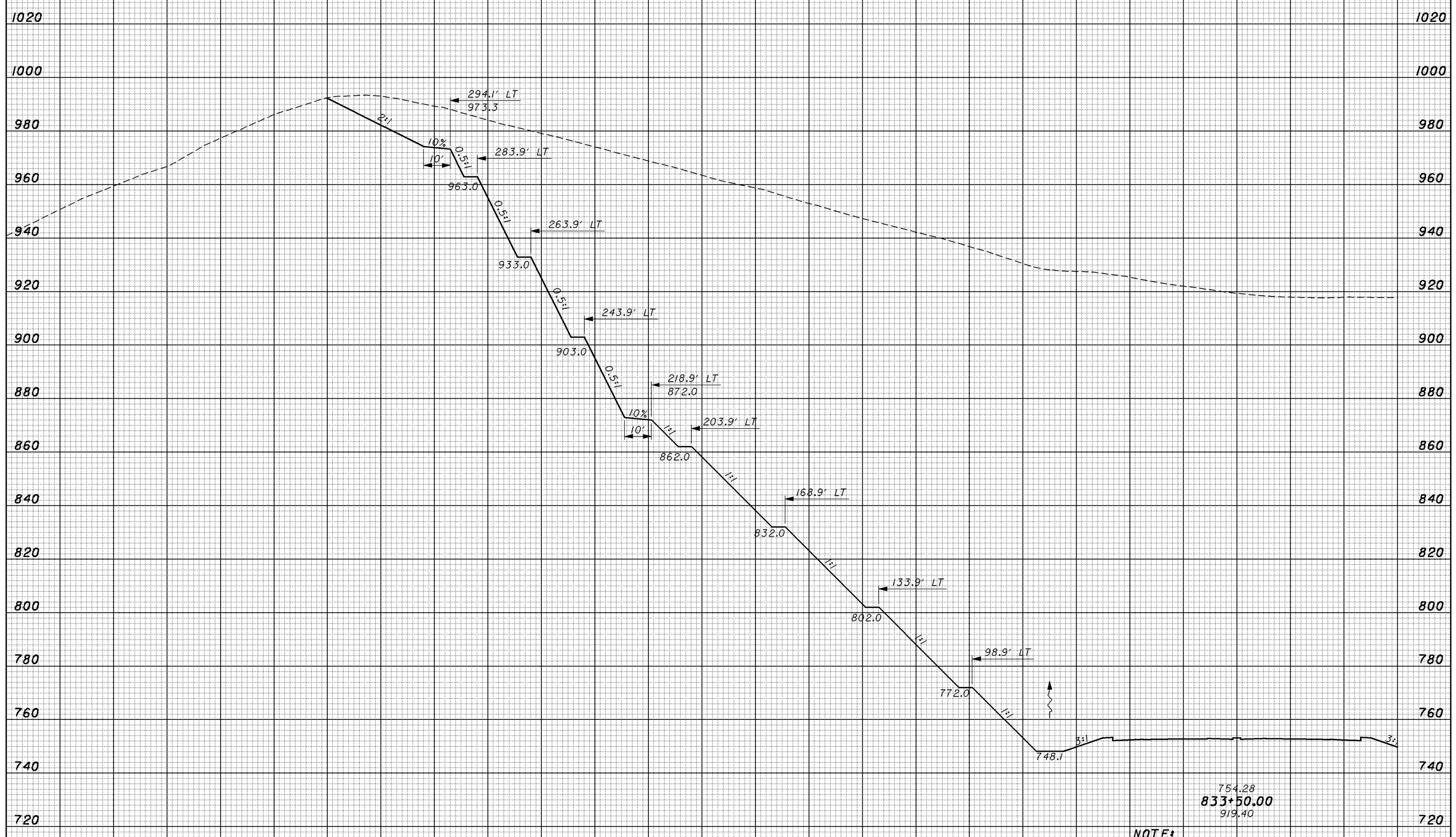
482

11/23/2007 9:00 AM \\varley\PlanSets-400_sci823_half.pen

mellen 1945xs08_ch.dgn

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 9:00 AM
 \\aries\PlanSets-400_sci823_half.pen
 melben 19415xs082_ch.dgn

END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		



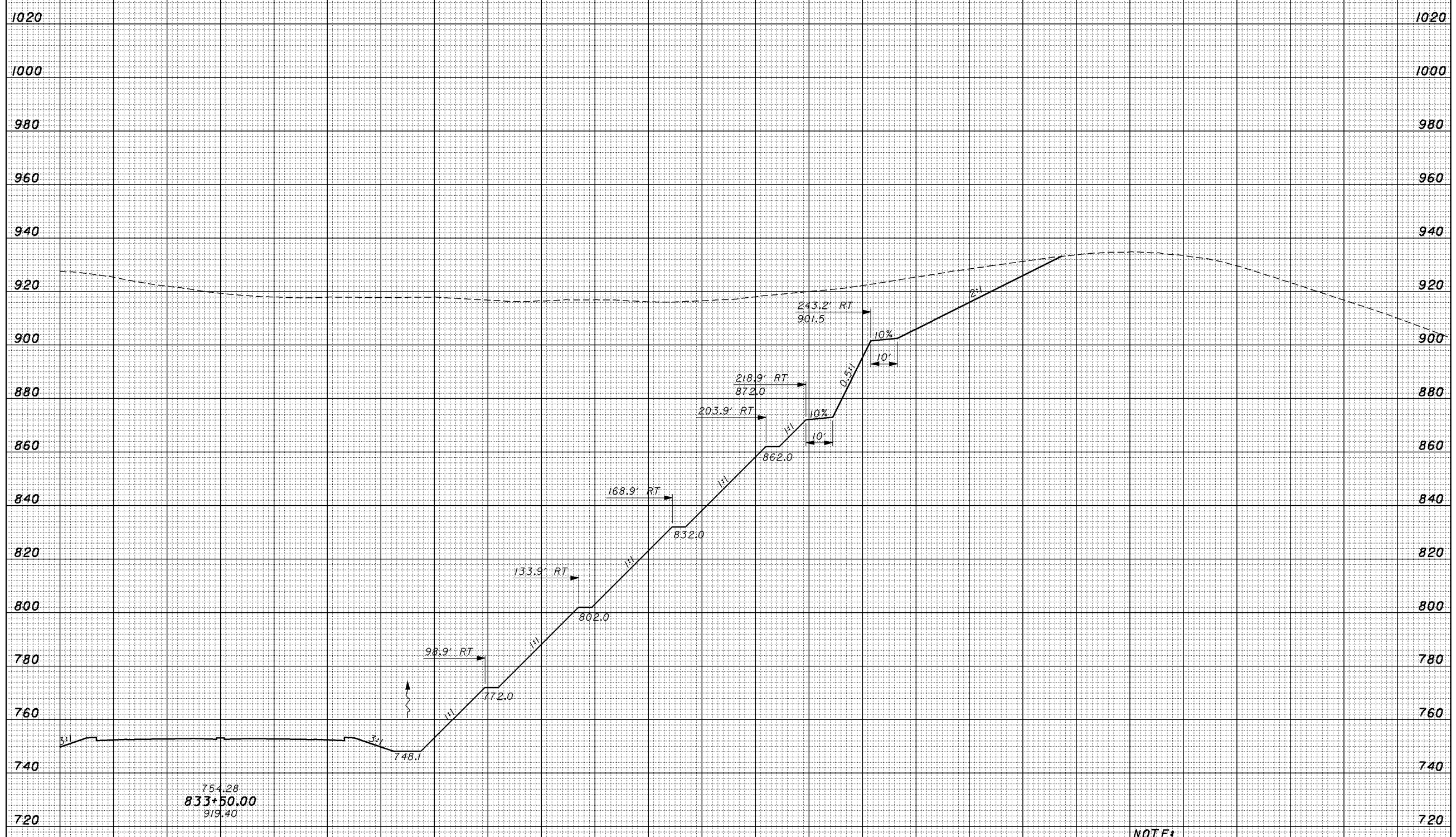
SEEDING	END WIDTH	SQ. YDS.	END AREA		VOLUME		CALCULATED MME	CHECKED ADW
			CUT	FILL	CUT	FILL		

CROSS SECTIONS - SR 823
 STA. 833+50.00 LT.

SCI-823-10.13

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 9:00 AM
 \\aries\plansets-400_sci823_half.pen
 meiben 1945xs083_ch.dgn

END AREA		VOLUME		CALCULATED	MME	CHECKED	ADW
CUT	FILL	CUT	FILL				



SEEDING	END WIDTH	SQ. YDS.	SHEET TOTAL		20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	SHEET TOTAL

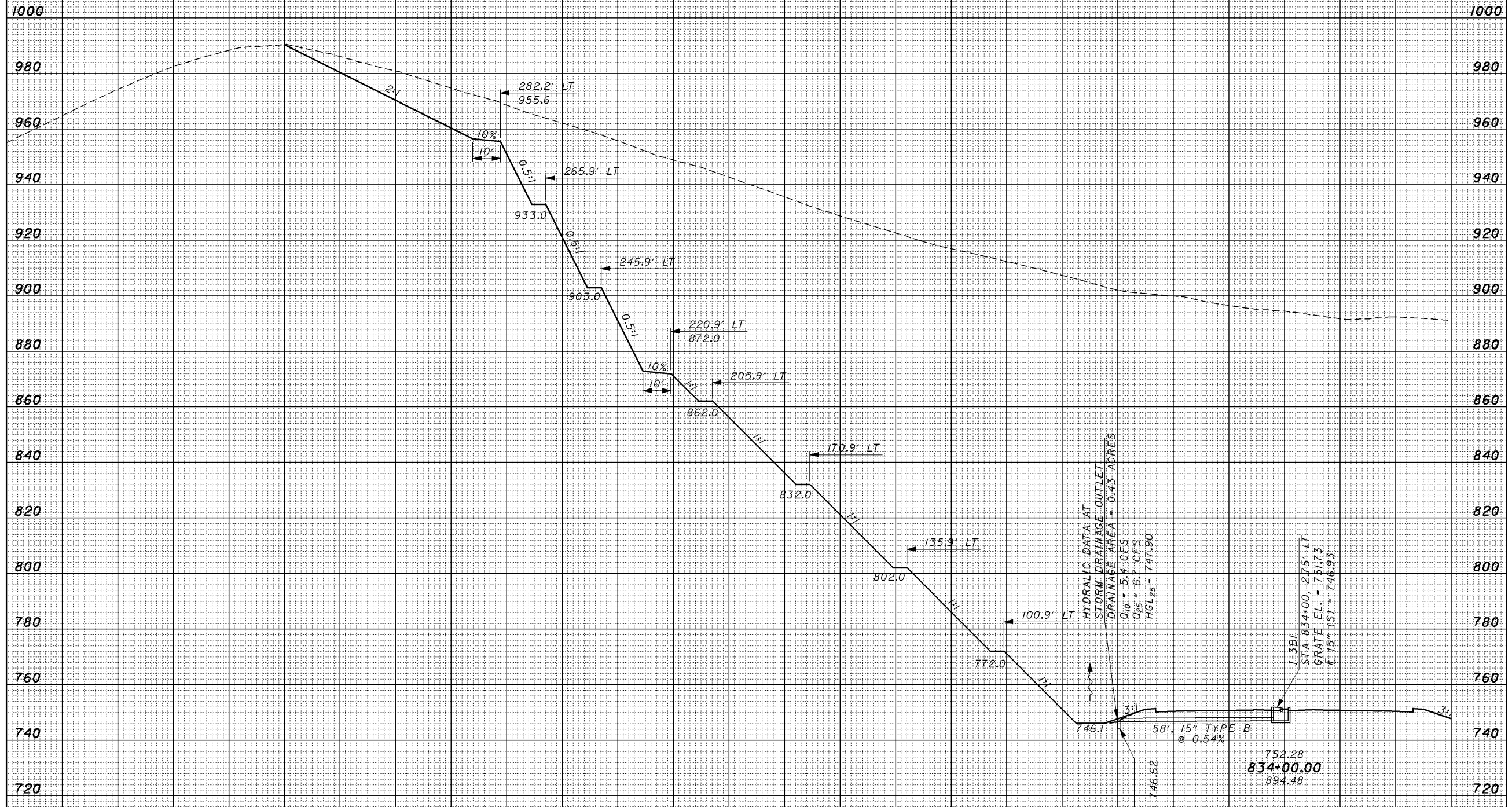
NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR 823
 STA. 833+50.00 RT.

SCI-823-10.13

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 9:00 AM
 \\aries\PlanSets-400_sci823_half.pen
 meiben 1945xs084_ch.dgn

END AREA		VOLUME	
CUT	FILL	CUT	FILL



SEEDING	END WIDTH	SQ. YDS.	STATIONING																END AREA	VOLUME							
CUT	FILL	CUT	FILL																	CUT	FILL						
				400	380	360	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20		
				SHEET TOTAL																							

NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

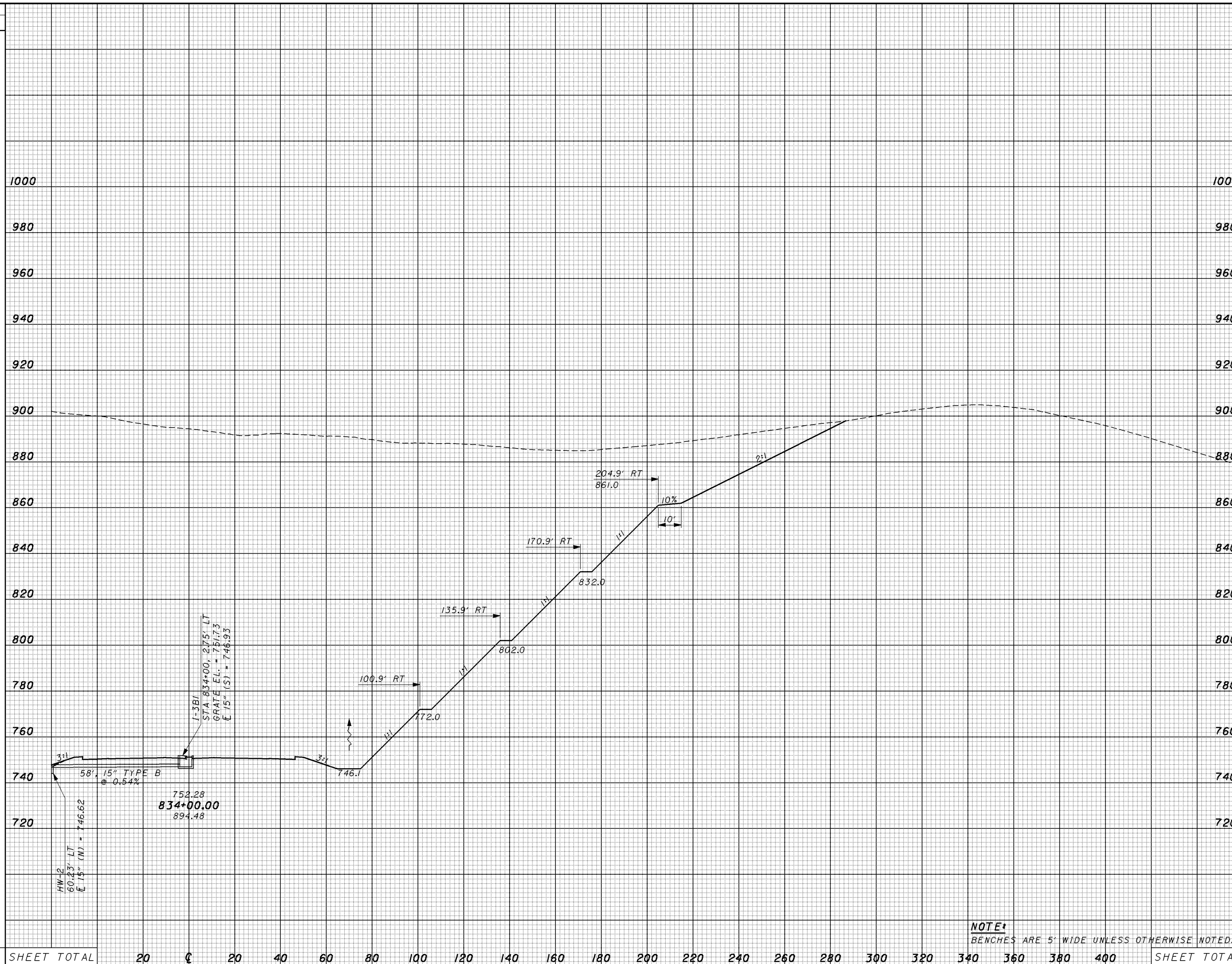
CROSS SECTIONS - SR 823
 STA. 834+00.00 LT.

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

11/23/2007 9:01 AM
\\aries\plansets-400_sci823_half.pen
meiben 1945xs085_ch.dgn



SHEET TOTAL	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	SHEET TOTAL
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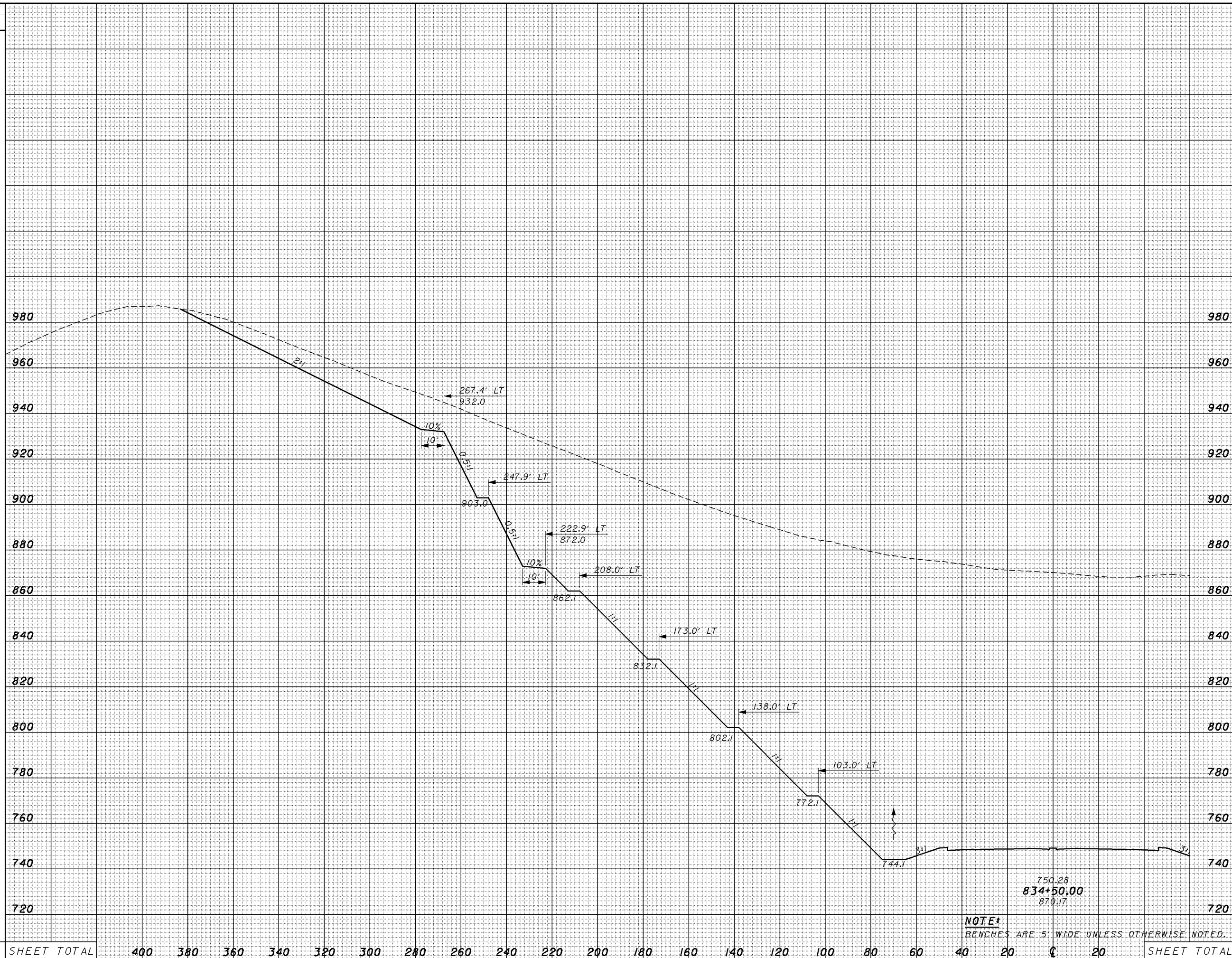
CROSS SECTIONS - SR 823
STA. 834+00.00 RT.

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

11/23/2007 9:01 AM
\\aries\PlanSets-400_sci823_half.pen
meiben 19415xs086_ch.dgn



SHEET TOTAL	400	380	360	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	SHEET TOTAL
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750.28
834+50.00
870.17

NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR 823
STA. 834+50.00 LT.

SCI-823-10.13

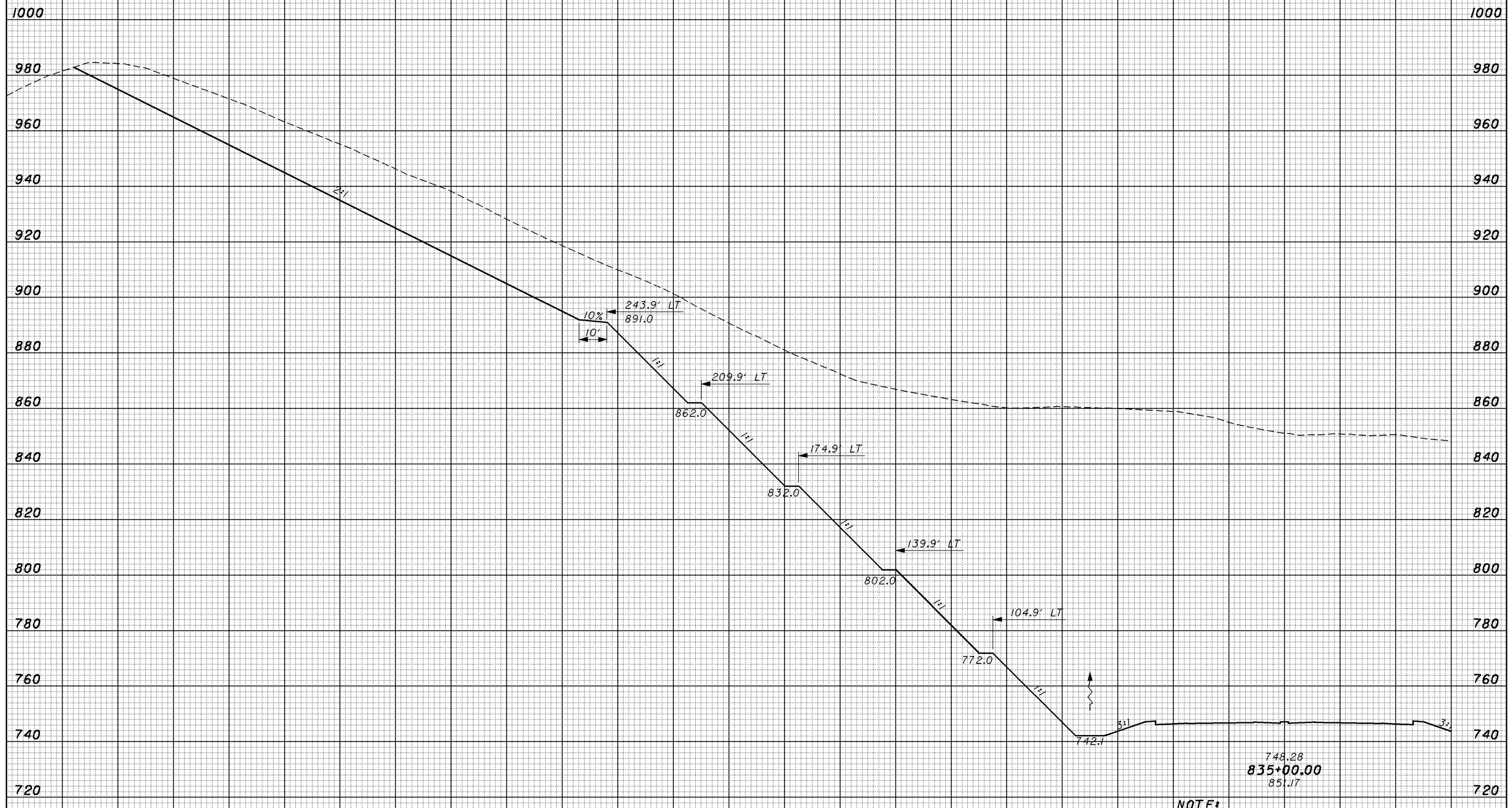


CROSS SECTIONS - SR 823
STA. 834+50.00 RT.

SCI-823-10.13

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 9:01 AM
 \\aries\PlanSets-400_sci823_half.pen
 melben 19415xs088_ch.dgn

END AREA		VOLUME		CALCULATED	MME	CHECKED	ADW
CUT	FILL	CUT	FILL				



SEEDING	END WIDTH	SQ. YDS.	DISTANCE FROM CENTERLINE																SHEET TOTAL						
			400	380	360	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	SHEET TOTAL

CROSS SECTIONS - SR 823
 STA. 835+00.00 LT.

SCI-823-10.13



SEEDING
 END WIDTH SO. YDS.
 11/23/2007 9:02 AM
 \\aries\PlanSets-400_sci823_half.pen
 melben 1945xs089_ch.dgn

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MME	ADW

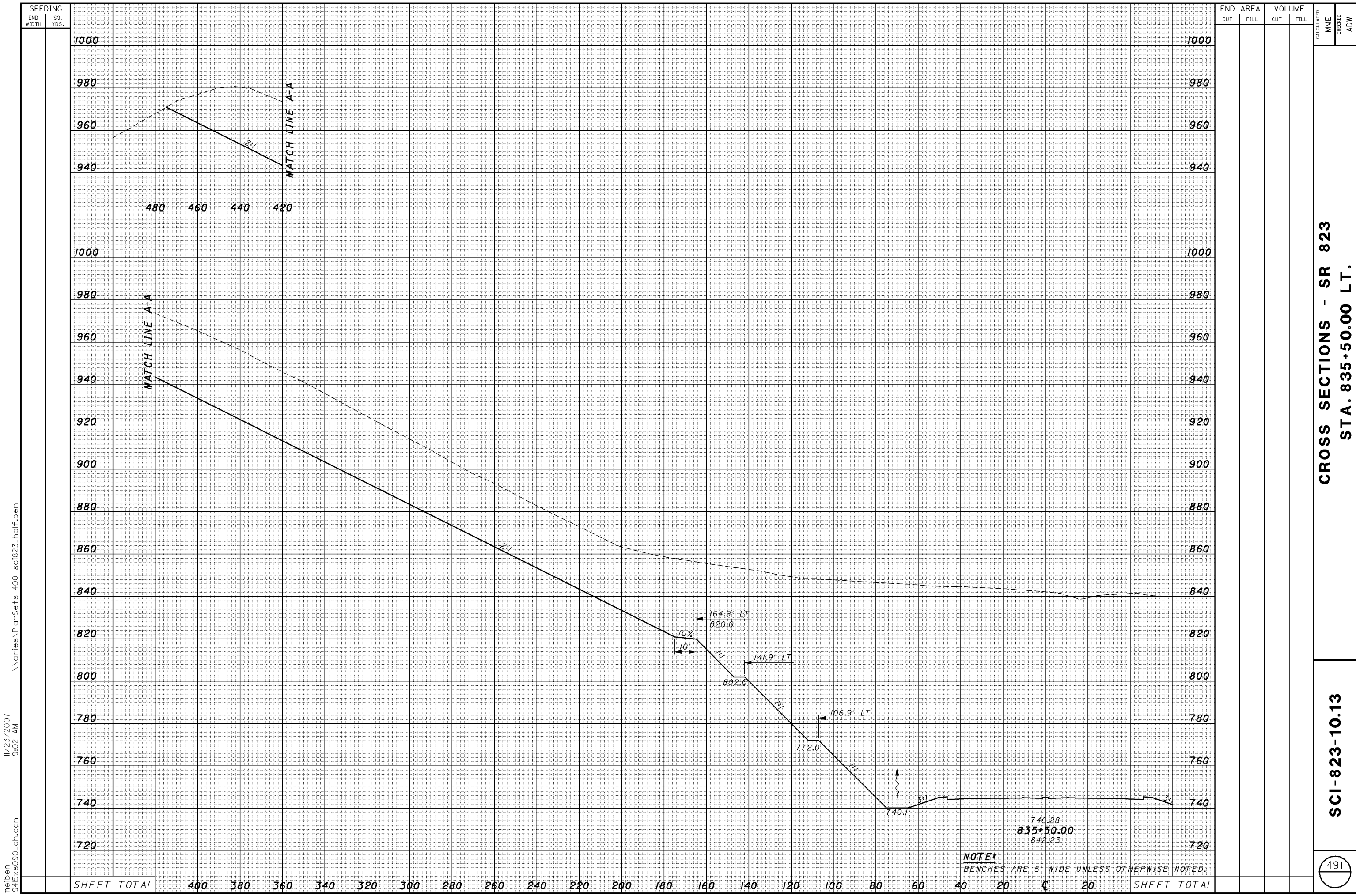
CROSS SECTIONS - SR 823
STA. 835+00.00 RT.

SCI-823-10.13

SHEET TOTAL	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	SHEET TOTAL
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748.28
 835+00.00
 851.17

NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.



11/23/2007 9:02 AM
 \\aries\PlanSets-400_sci823_half.pen
 melben 1945xs090_ch.dgn

CROSS SECTIONS - SR 823
STA. 835+50.00 LT.

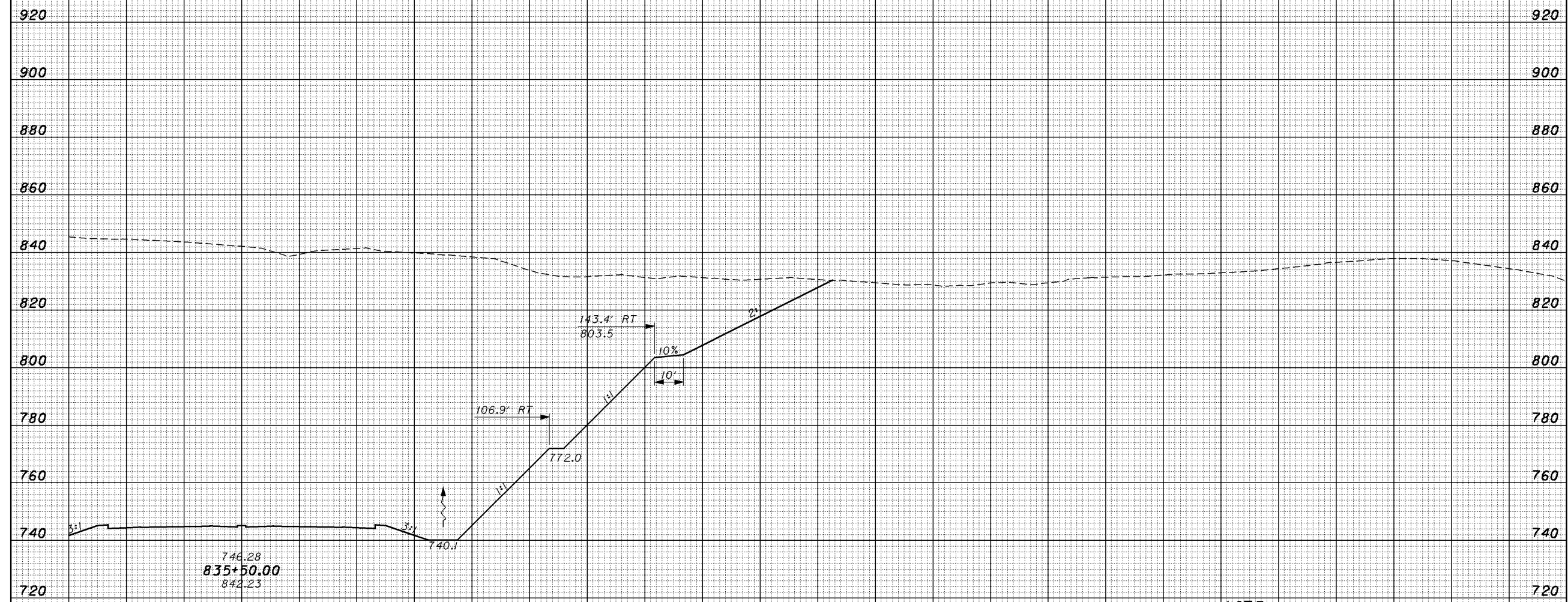
SCI-823-10.13

SEEDING

END WIDTH	SO. YDS.
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END AREA		VOLUME	
CUT	FILL	CUT	FILL
CALCULATED		CHECKED	
MME		ADW	

11/23/2007 9:02 AM \\aries\PlanSets-400_sci823_half.pen melben 1945xs09_ch.dgn



NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL	20	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	SHEET TOTAL
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CROSS SECTIONS - SR 823
STA. 835+50.00 RT.

SCI-823-10.13

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MME	ADW

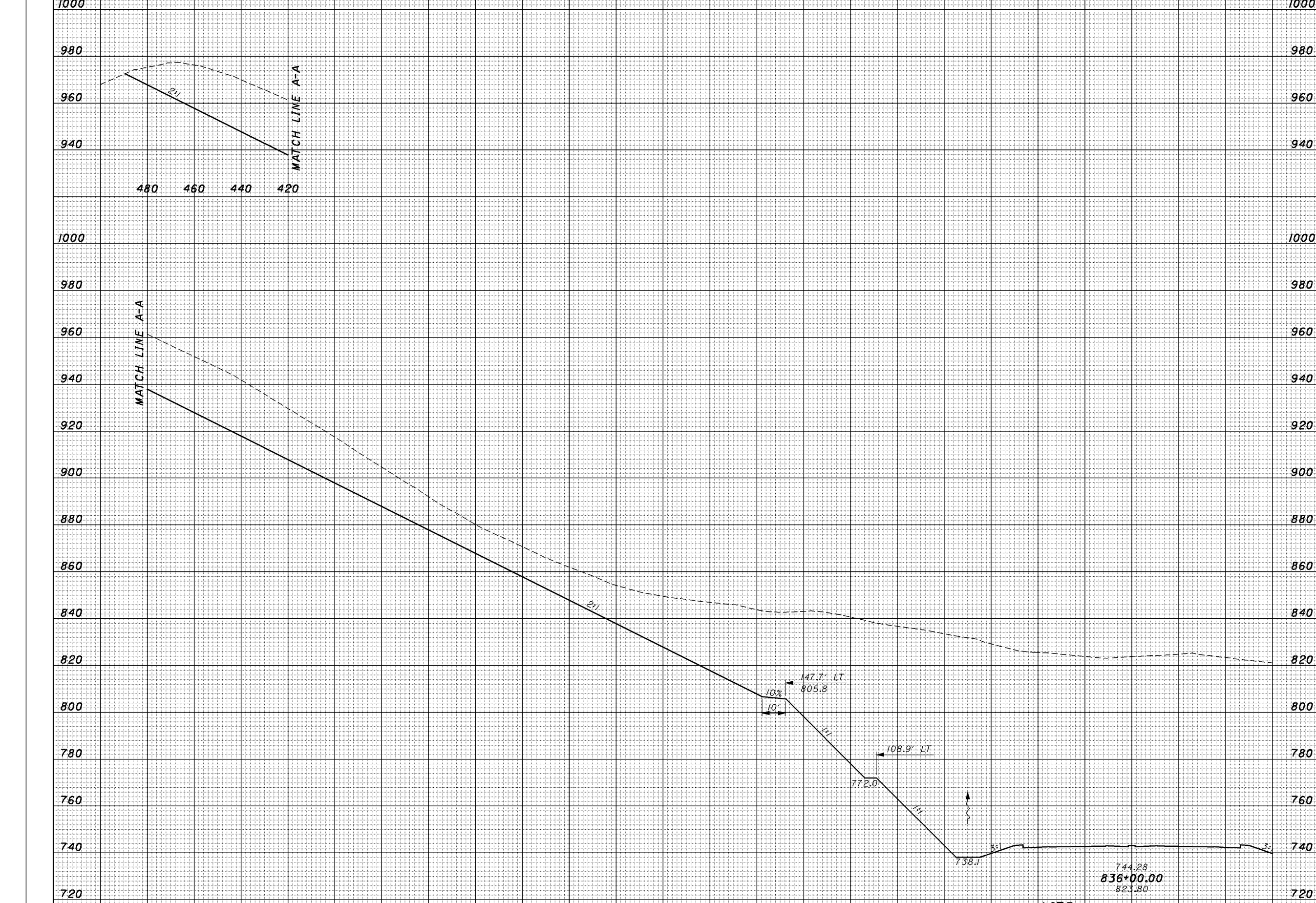
1000
980
960
940
920
900
880
860
840
820
800
780
760
740
720

1000
980
960
940
920
900
880
860
840
820
800
780
760
740
720

CROSS SECTIONS - SR 823
STA. 836+00.00 LT.

SCI-823-10.13

11/23/2007
9:02 AM
\\aries\PlanSets-400_sci823_half.pen
meiben
19415xs092_ch.dgn



744.28
836+00.00
823.80

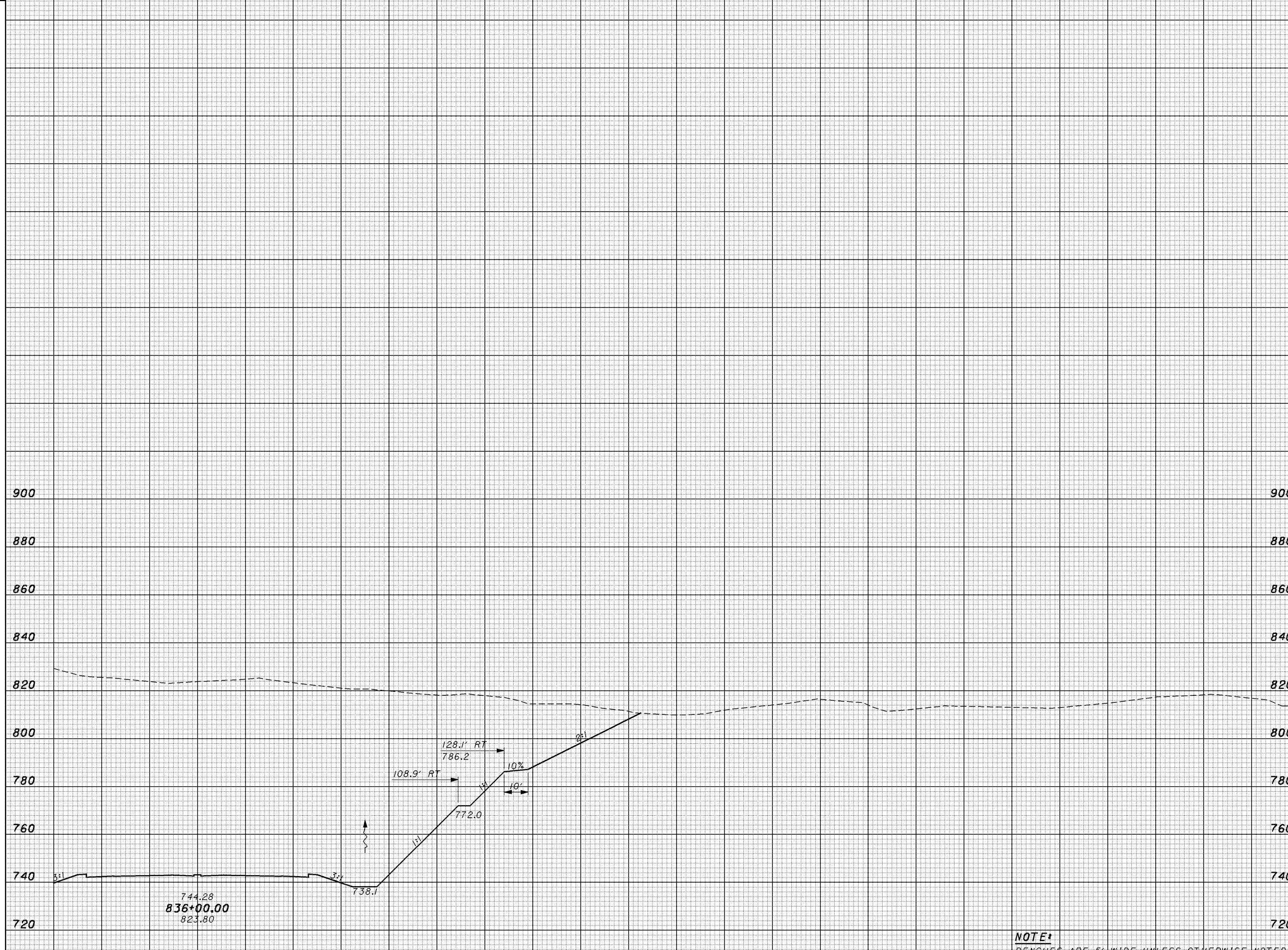
NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL	400	380	360	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	CL	20	SHEET TOTAL

meiben 11/23/2007 9:03 AM \\aries\PlanSets-400_sci823_half.pen

SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MME	ADW



SHEET TOTAL	20	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	SHEET TOTAL
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NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

**CROSS SECTIONS - SR 823
STA. 836+00.00 RT.**

SCI-823-10.13

494



SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CROSS SECTIONS - SR 823
 STA. 836+50.00 LT.

SCI-823-10.13

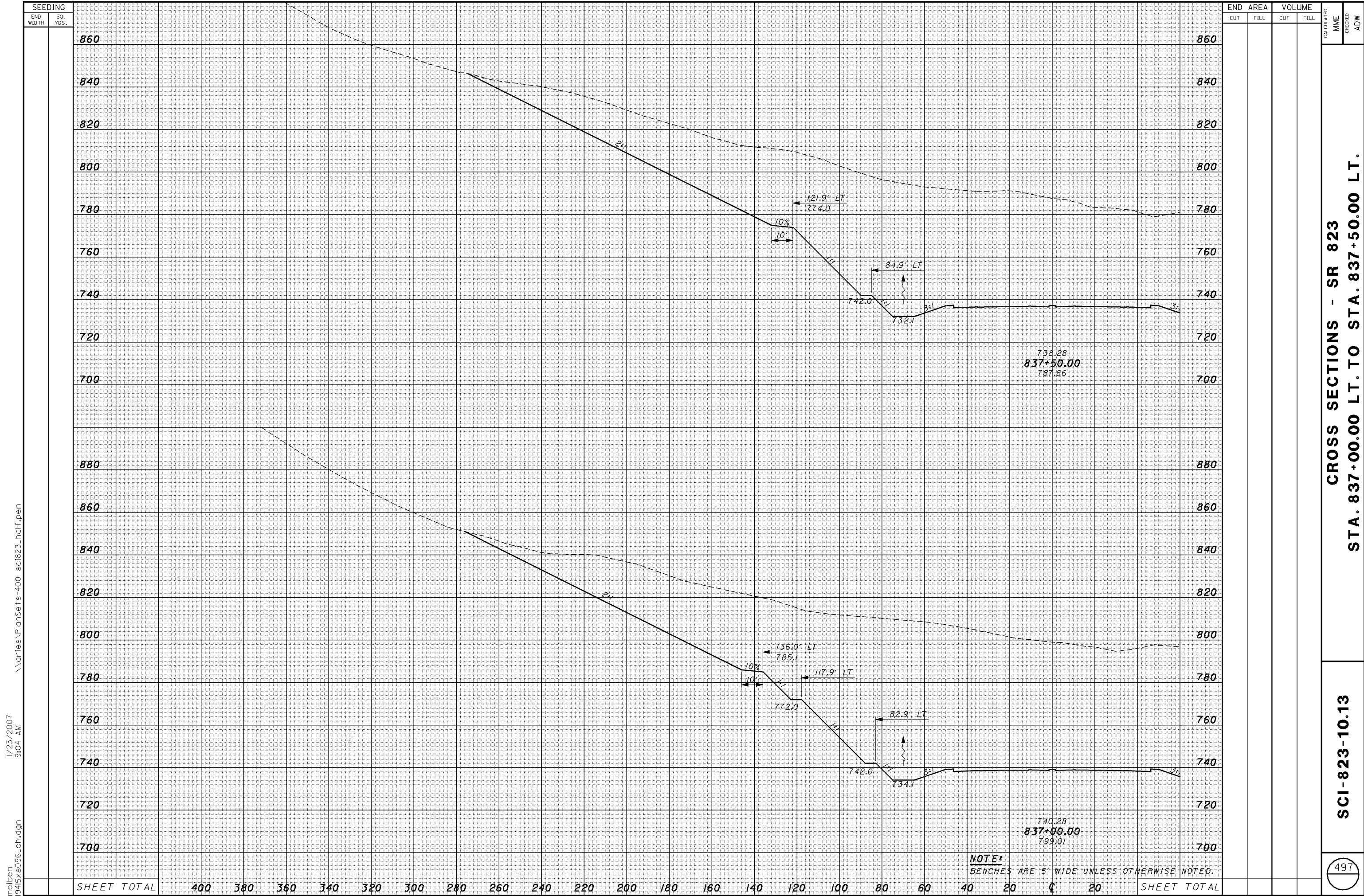
495

11/23/2007 9:03 AM \\aries\plansets-400_sci823_half.pen
 melben 1945xs094_ch.dgn

SHEET TOTAL	400	380	360	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	SHEET TOTAL
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NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

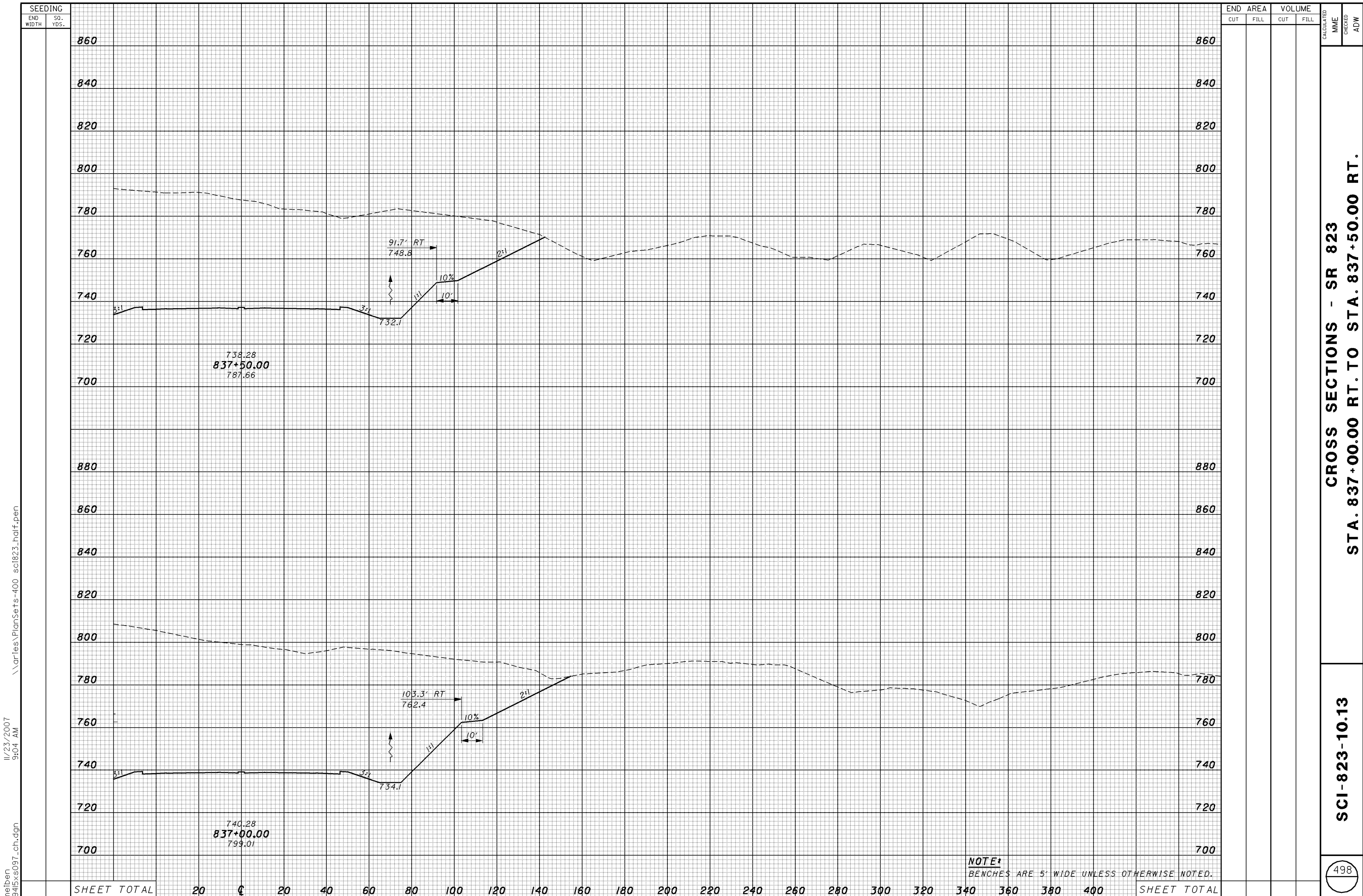
742.28
 836+50.00
 811.95



11/23/2007 9:04 AM \\varies\PlanSets-400_sci823_half.pen
 melben 19415xs096_ch.dgn

CROSS SECTIONS - SR 823
 STA. 837+00.00 LT. TO STA. 837+50.00 LT.

SCI-823-10.13



SEEDING	
END WIDTH	SO. YDS.
860	
840	
820	
800	
780	
760	
740	
720	
700	
880	
860	
840	
820	
800	
780	
760	
740	
720	
700	

STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
860				
840				
820				
800				
780				
760				
740				
720				
700				
880				
860				
840				
820				
800				
780				
760				
740				
720				
700				
SHEET TOTAL	20	0	20	40
	60	80	100	120
	140	160	180	200
	220	240	260	280
	300	320	340	360
	380	400		
			SHEET TOTAL	

CALCULATED	CHECKED	END AREA		VOLUME	
		CUT	FILL	CUT	FILL
MME	ADW				

CROSS SECTIONS - SR 823
STA. 837+00.00 RT. TO STA. 837+50.00 RT.

SCI-823-10.13

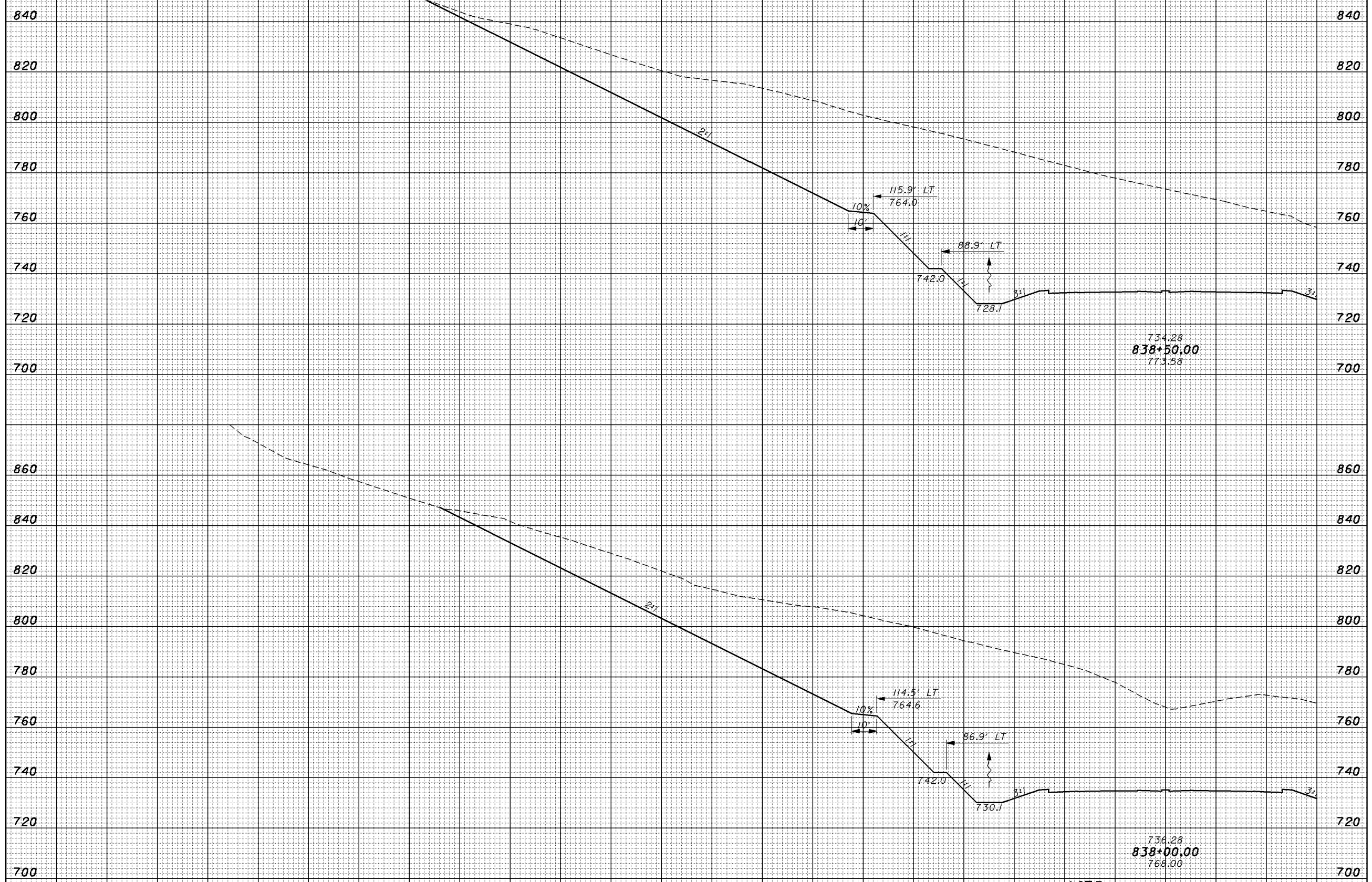
11/23/2007 9:04 AM \\aries\PlanSets-400_sci823_half.pen
 melben 1945xs097_ch.dgn

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

meiben
19415xs098_ch.dgn
11/23/2007
9:04 AM
\\aries\plansets-400_sci823_half.pen

SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		



SHEET TOTAL	400	380	360	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	SHEET TOTAL
-------------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	-------------

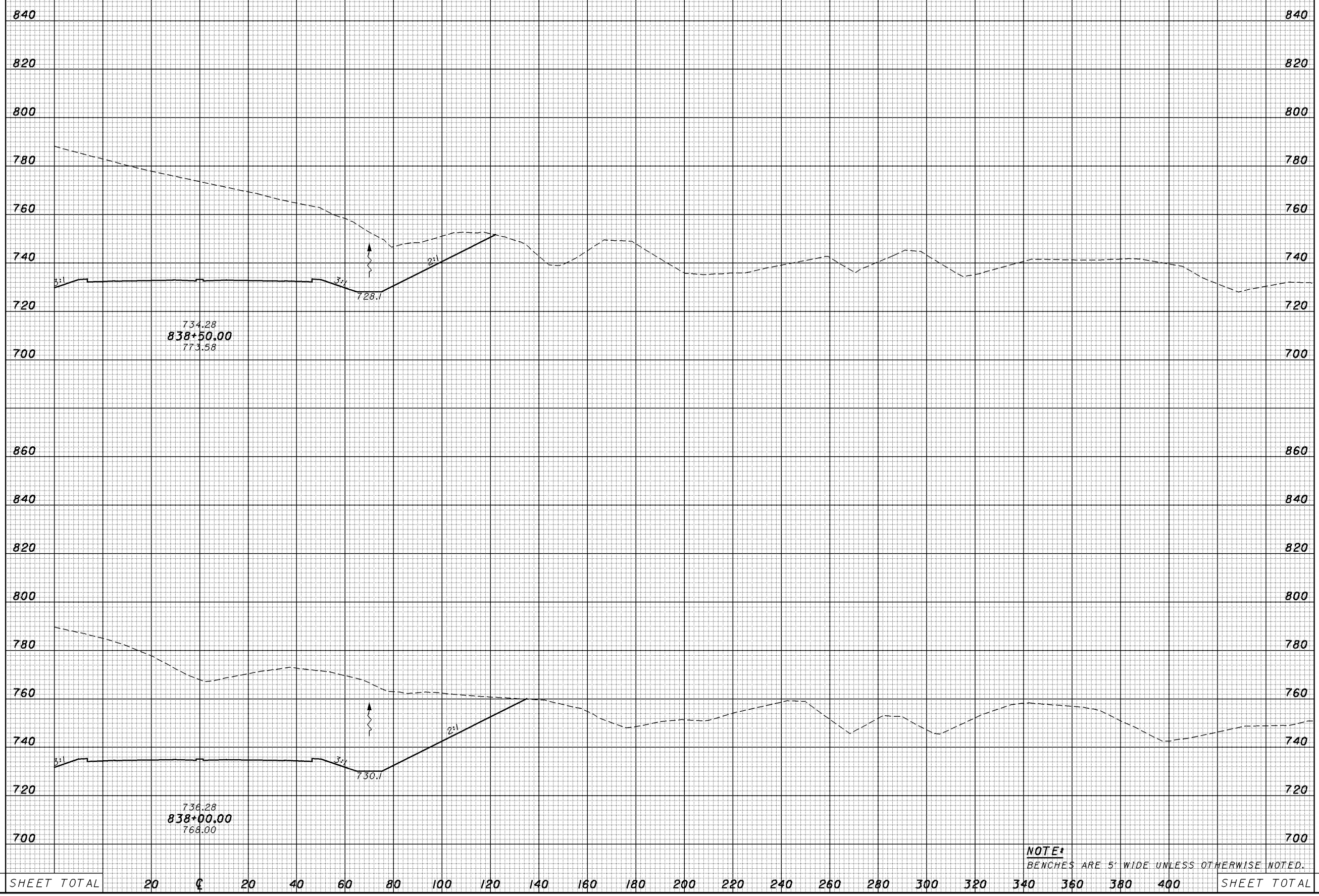
NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR 823
STA. 838+00.00 LT. TO STA. 838+50.00 LT.

SCI-823-10.13

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 9:04 AM
 \\aries\PlanSets-400_sci823_half.pen
 melben 1945xs099_ch.dgn

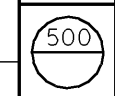
END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MME	ADW



NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR 823
 STA. 838+00.00 RT. TO STA. 838+50.00 RT.

SCI-823-10.13



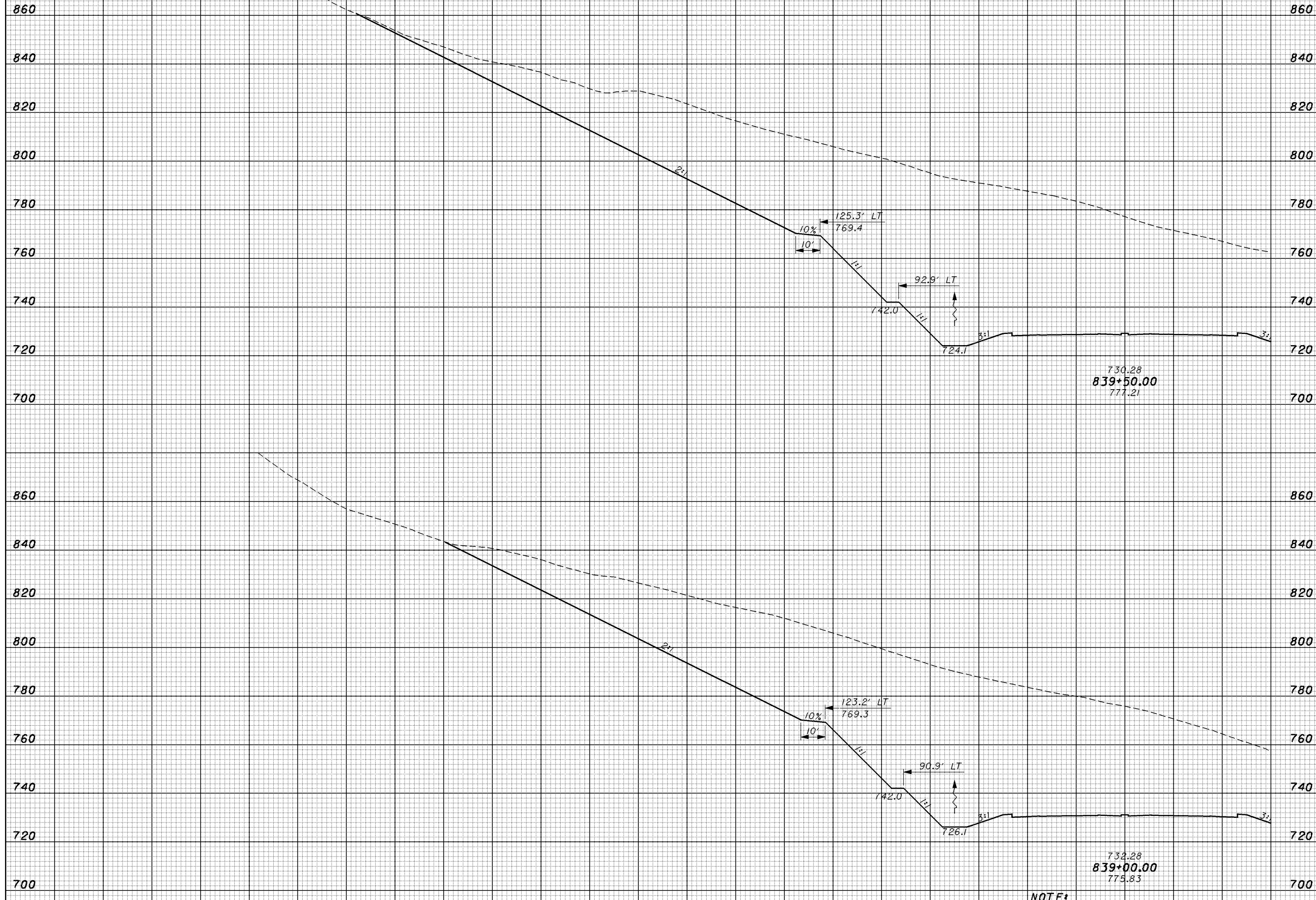
11/23/2007 9:05 AM \\aries\plansets-400_sci823_half.pen

m\ben 1945\sci00_ch.dgn

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED MME CHECKED ADW



NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SEEDING	END WIDTH	SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL	SHEET TOTAL
	400						
	380						
	360						
	340						
	320						
	300						
	280						
	260						
	240						
	220						
	200						
	180						
	160						
	140						
	120						
	100						
	80						
	60						
	40						
	20						
	0						
	20						
							SHEET TOTAL

CROSS SECTIONS - SR 823
STA. 839+00.00 LT. TO STA. 839+50.00 LT.

SCI-823-10.13

meiben
1945xsl01_ch.dgn
11/23/2007
9:05 AM
\\aries\PlanSets-400_sci823_half.pen

SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MME	ADW

860
840
820
800
780
760
740
720
700
860
840
820
800
780
760
740
720
700

860
840
820
800
780
760
740
720
700
860
840
820
800
780
760
740
720
700

730.28
839+50.00
777.21

732.28
839+00.00
775.83

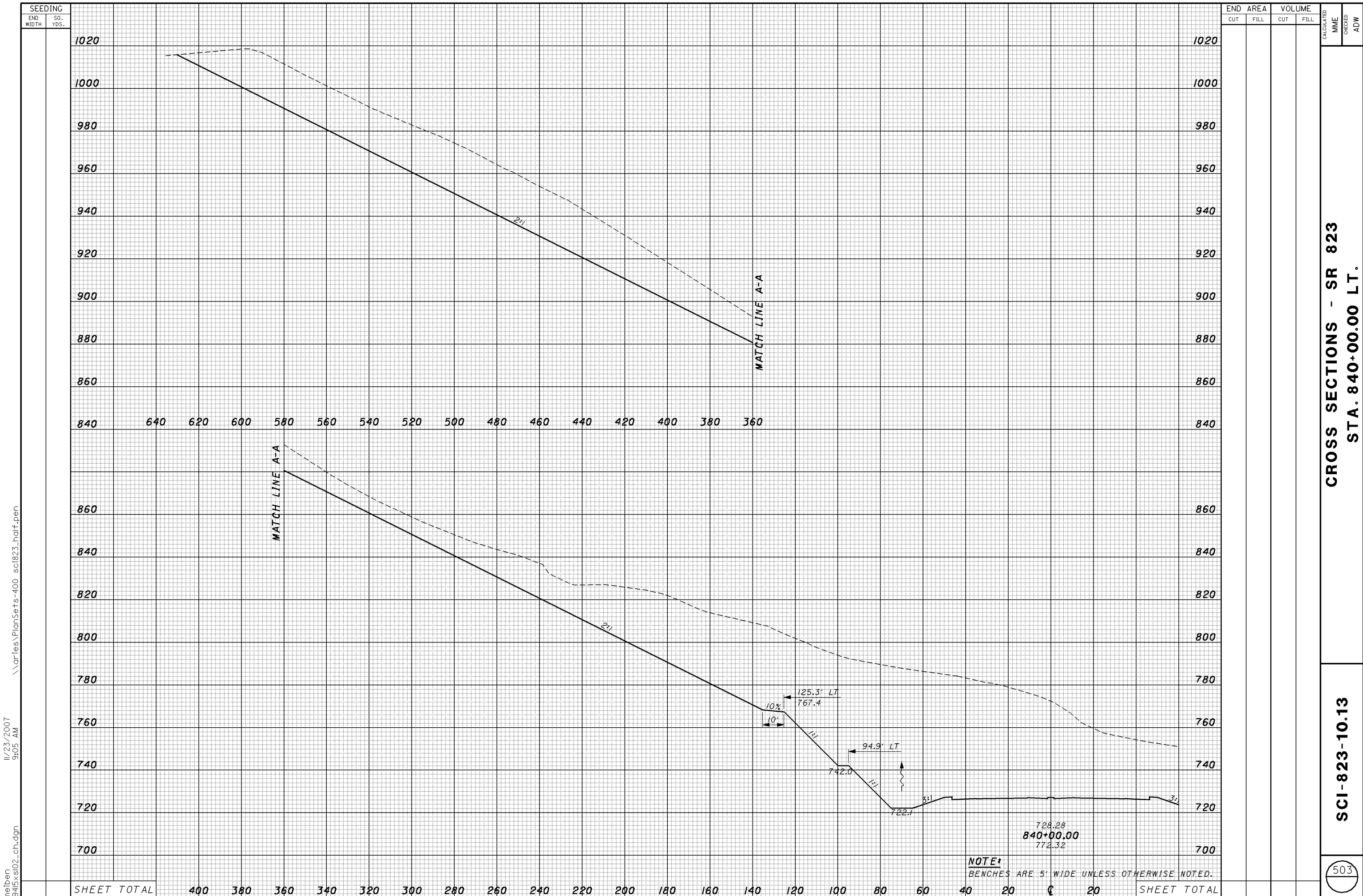
SHEET TOTAL 20 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 SHEET TOTAL

NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR 823
STA. 839+00.00 RT. TO STA. 839+50.00 RT.

SCI-823-10.13

502



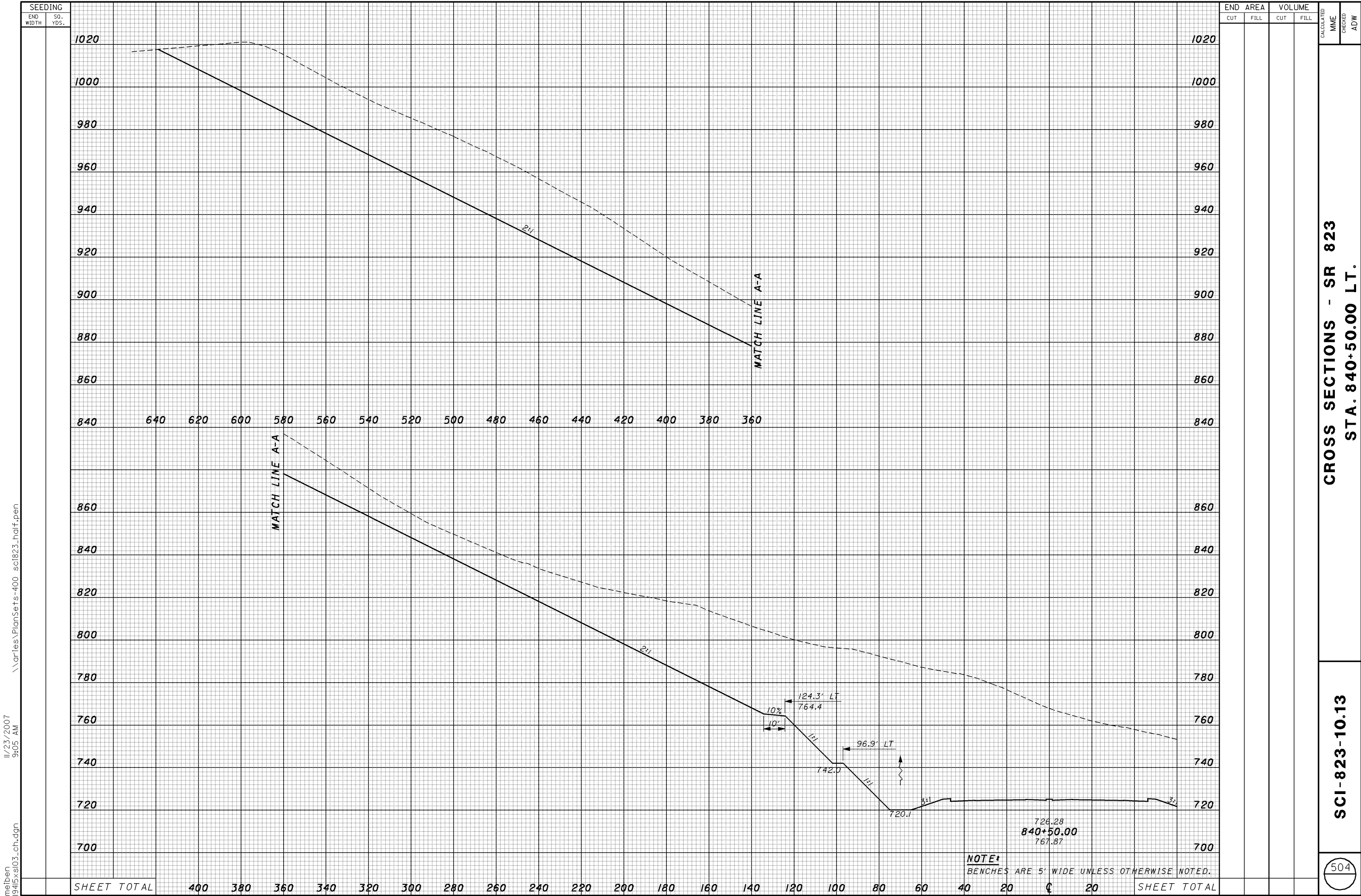
SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 9:05 AM
 \\aries\PlanSets-400_sci823_half.pen
 melben 19415xsl02_ch.dgn

SHEET TOTAL	400	380	360	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	SHEET TOTAL
-------------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	-------------

END AREA		VOLUME		CALCULATED	MME	CHECKED	ADW
CUT	FILL	CUT	FILL				

CROSS SECTIONS - SR 823
 STA. 840+00.00 LT.

SCI-823-10.13

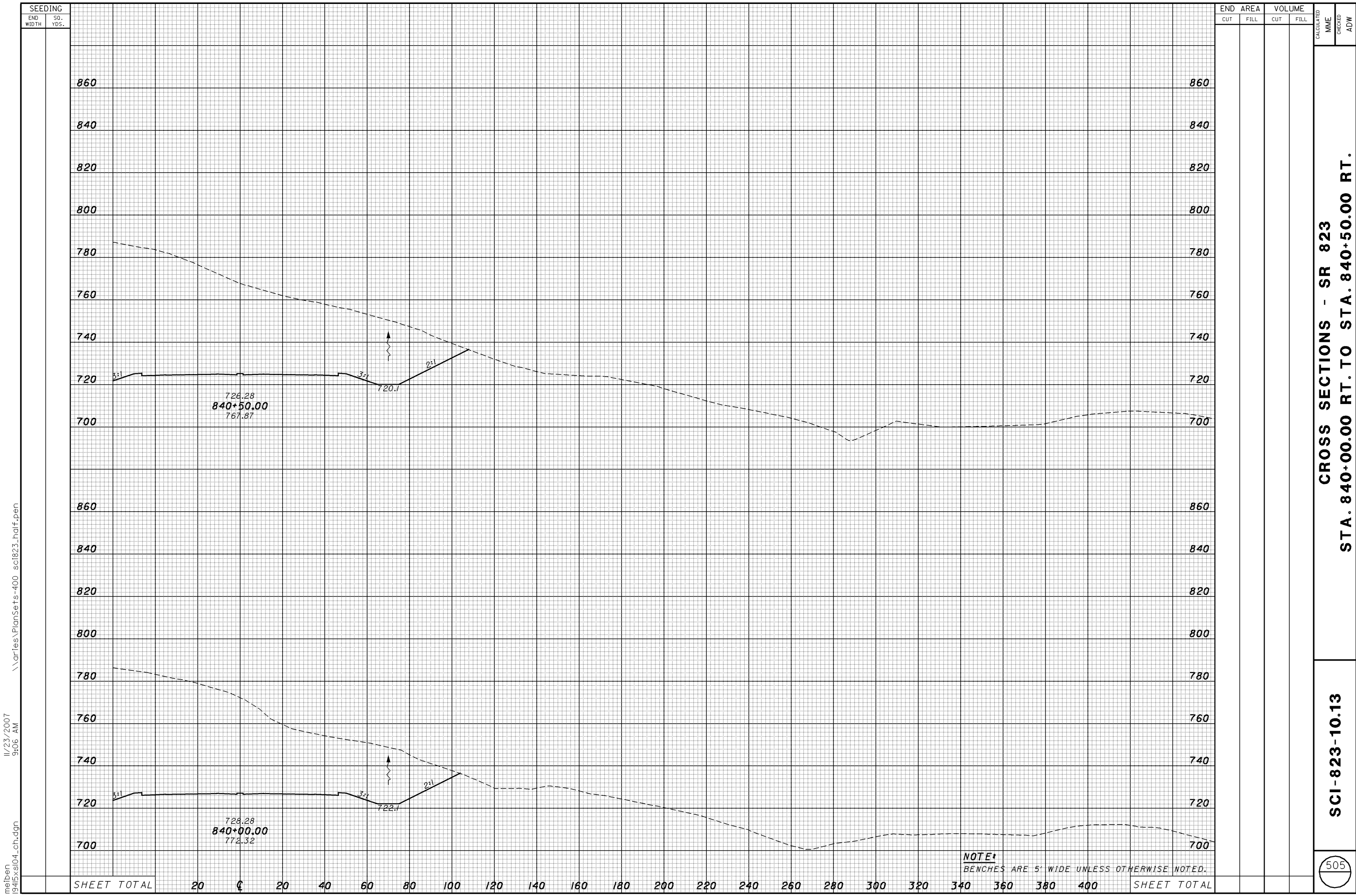


11/23/2007 9:05 AM \\aries\PlanSets-400_sci823_half.pen
meiben 1945xsl03_ch.dgn

**CROSS SECTIONS - SR 823
STA. 840+50.00 LT.**

SCI-823-10.13

SEEDING	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
1020				
1000				
980				
960				
940				
920				
900				
880				
860				
840	640	620	600	580
860				
840				
820				
800				
780				
760				
740				
720				
700				
SHEET TOTAL	400	380	360	340
	320	300	280	260
	240	220	200	180
	160	140	120	100
	80	60	40	20
	0	0	0	0
	20	0	0	0
				SHEET TOTAL



meiben 1945xsl04_ch.dgn 11/23/2007 9:06 AM \\aries\PlanSets-400_sci823_half.pen

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR 823
STA. 840+00.00 RT. TO STA. 840+50.00 RT.

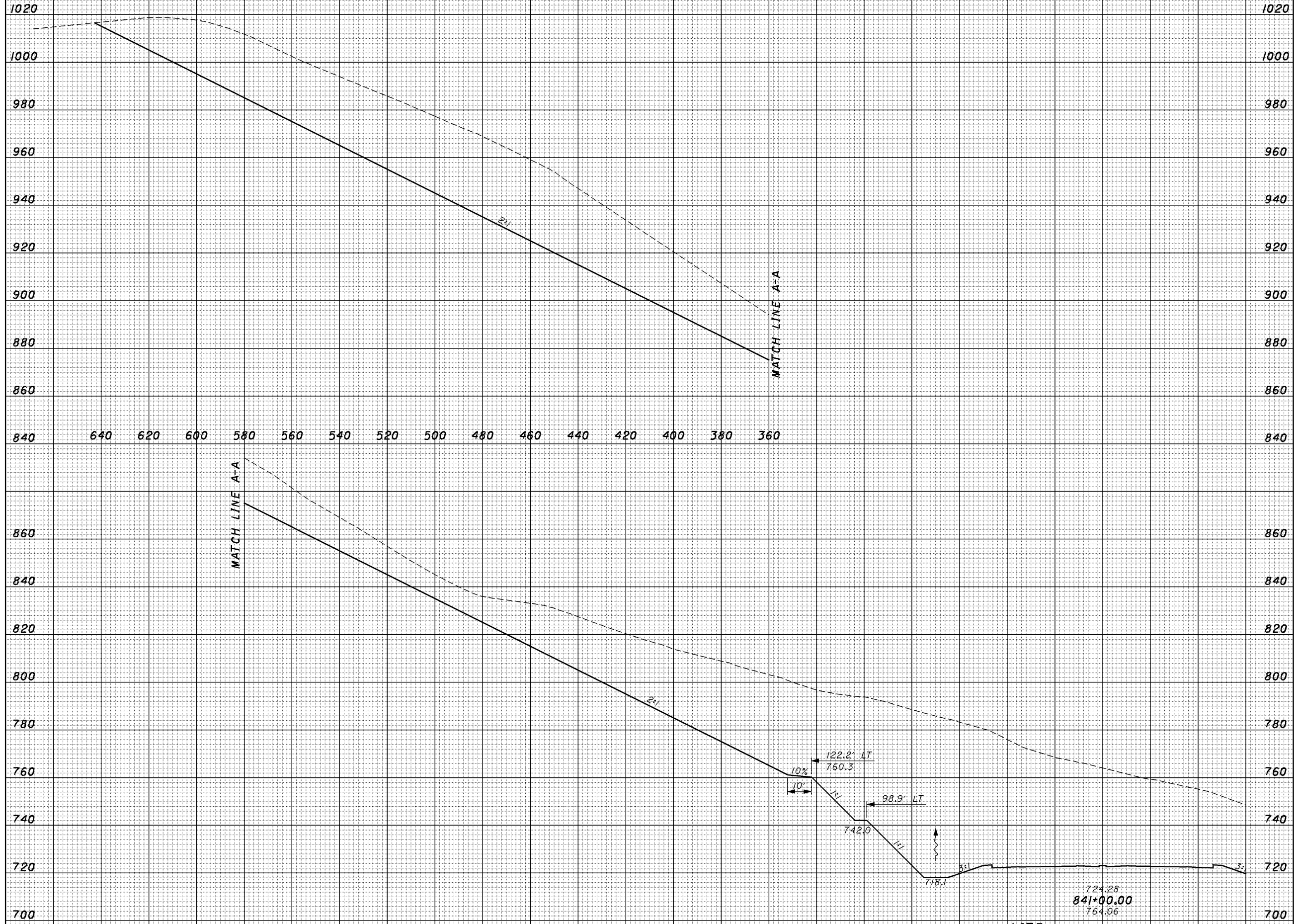
SCI-823-10.13

11/23/2007 9:06 AM \\aries\plansets-400_sci823_half.pen meiben 1945xsl05_ch.dgn

SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
MME
CHECKED
ADW



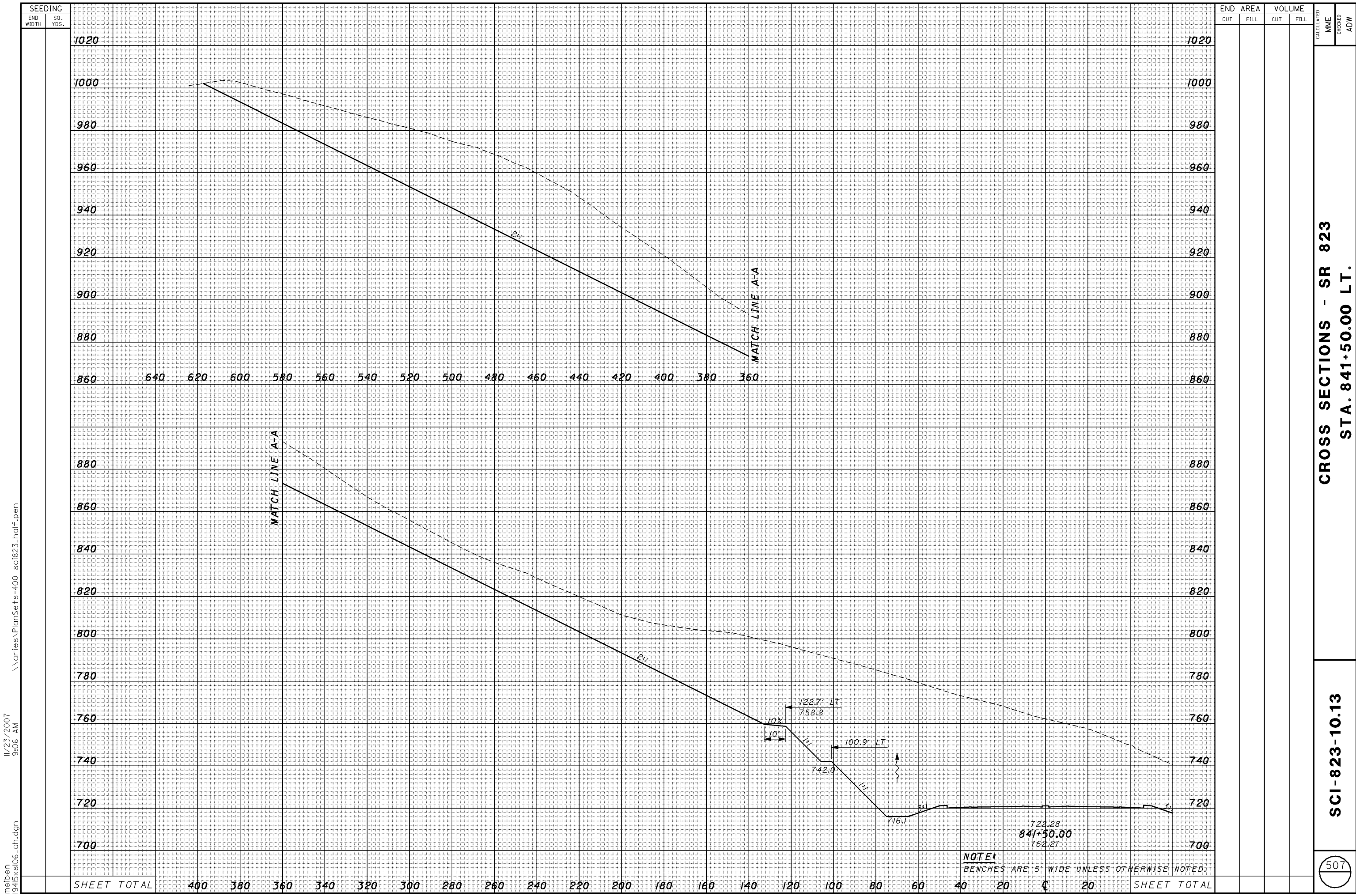
NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL	400	380	360	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	SHEET TOTAL
-------------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	-------------

CROSS SECTIONS - SR 823
STA. 841+00.00 LT.

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SHEET TOTAL	400	380	360	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	SHEET TOTAL
-------------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	-------------

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SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



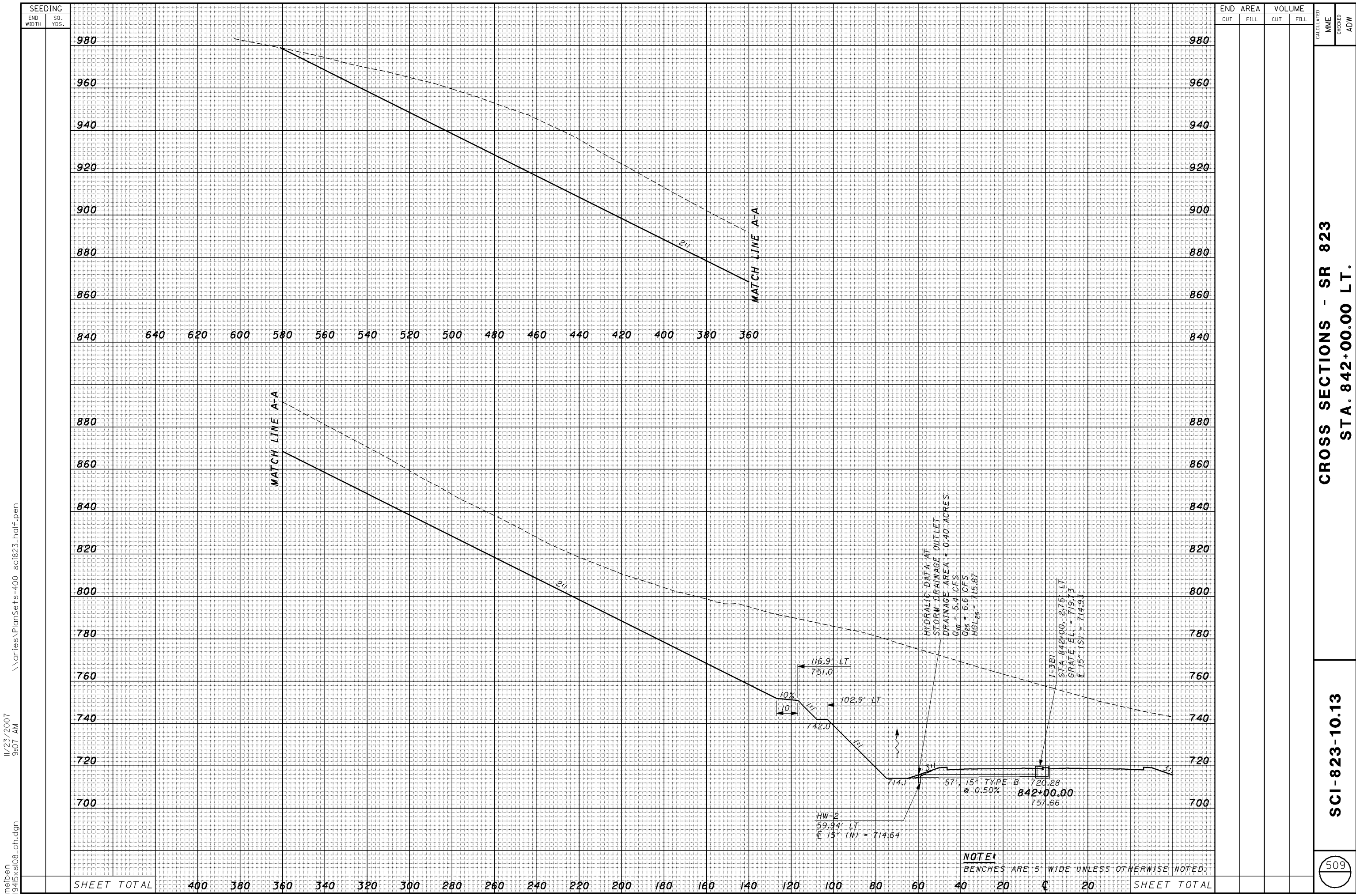
NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SEEDING	END WIDTH	SQ. YDS.	END AREA		VOLUME	
			CUT	FILL	CUT	FILL

CROSS SECTIONS - SR 823
STA. 841+00.00 RT. TO STA. 841+50.00 RT.

SCI-823-10.13

508



SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL
	980				980
	960				960
	940				940
	920				920
	900				900
	880				880
	860				860
	840	640	620	600	580
	840				840
	820				820
	800				800
	780				780
	760				760
	740				740
	720				720
	700				700
SHEET TOTAL		400	380	360	340

CALCULATED		CHECKED	
MME	ADW		

CROSS SECTIONS - SR 823
STA. 842+00.00 LT.

SCI-823-10.13

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NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

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9:07 AM
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SEEDING
END WIDTH SQ. YDS.



END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		

**CROSS SECTIONS - SR 823
STA. 842+50.00 LT.**

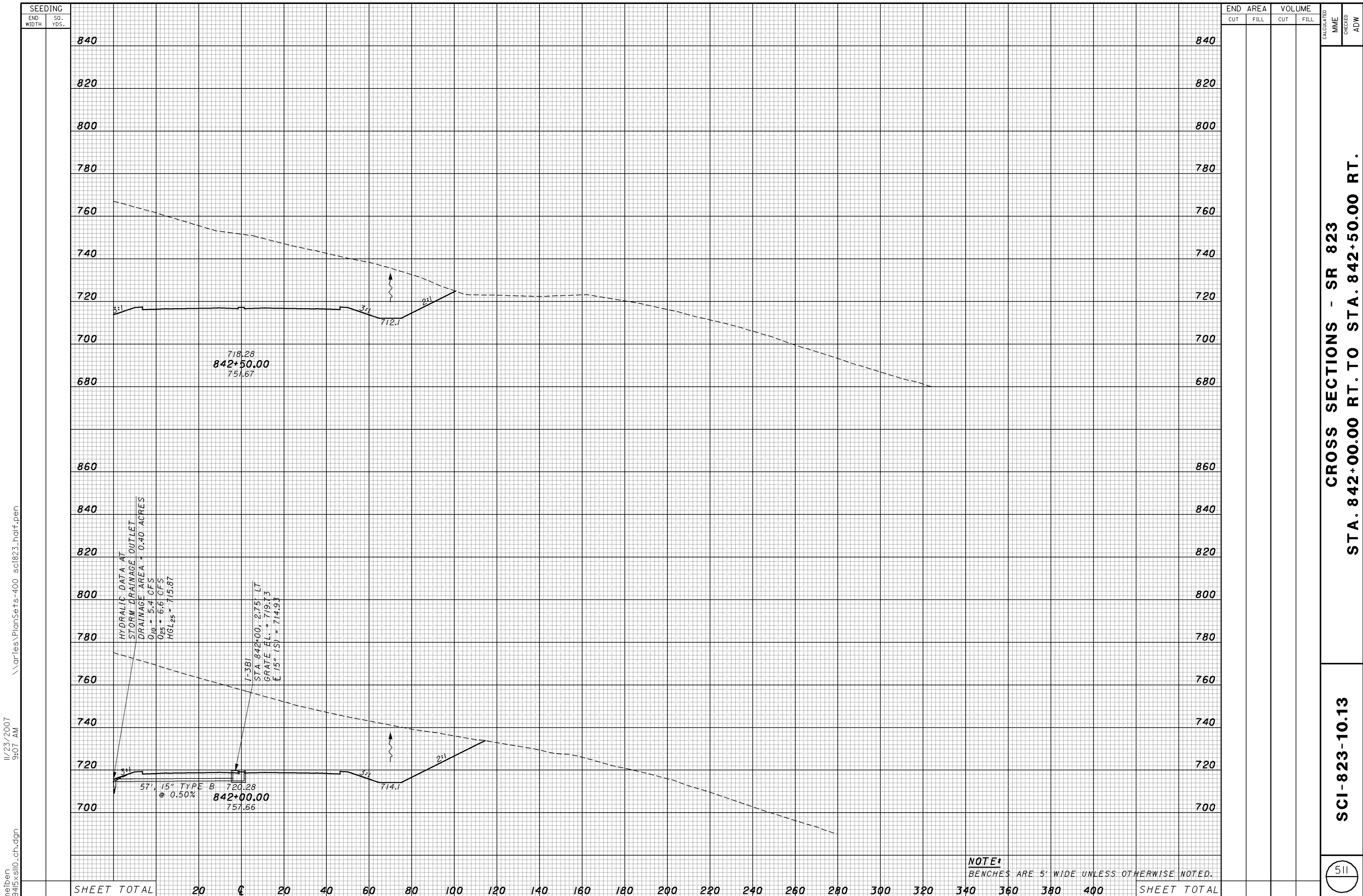
SCI-823-10.13

510

NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

718.28
842+50.00
751.67

SHEET TOTAL	400	380	360	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	SHEET TOTAL
-------------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	-------------



SEEDING	
END WIDTH	SO. YDS.
840	840
820	820
800	800
780	780
760	760
740	740
720	720
700	700
680	680
860	860
840	840
820	820
800	800
780	780
760	760
740	740
720	720
700	700
SHEET TOTAL	20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 SHEET TOTAL

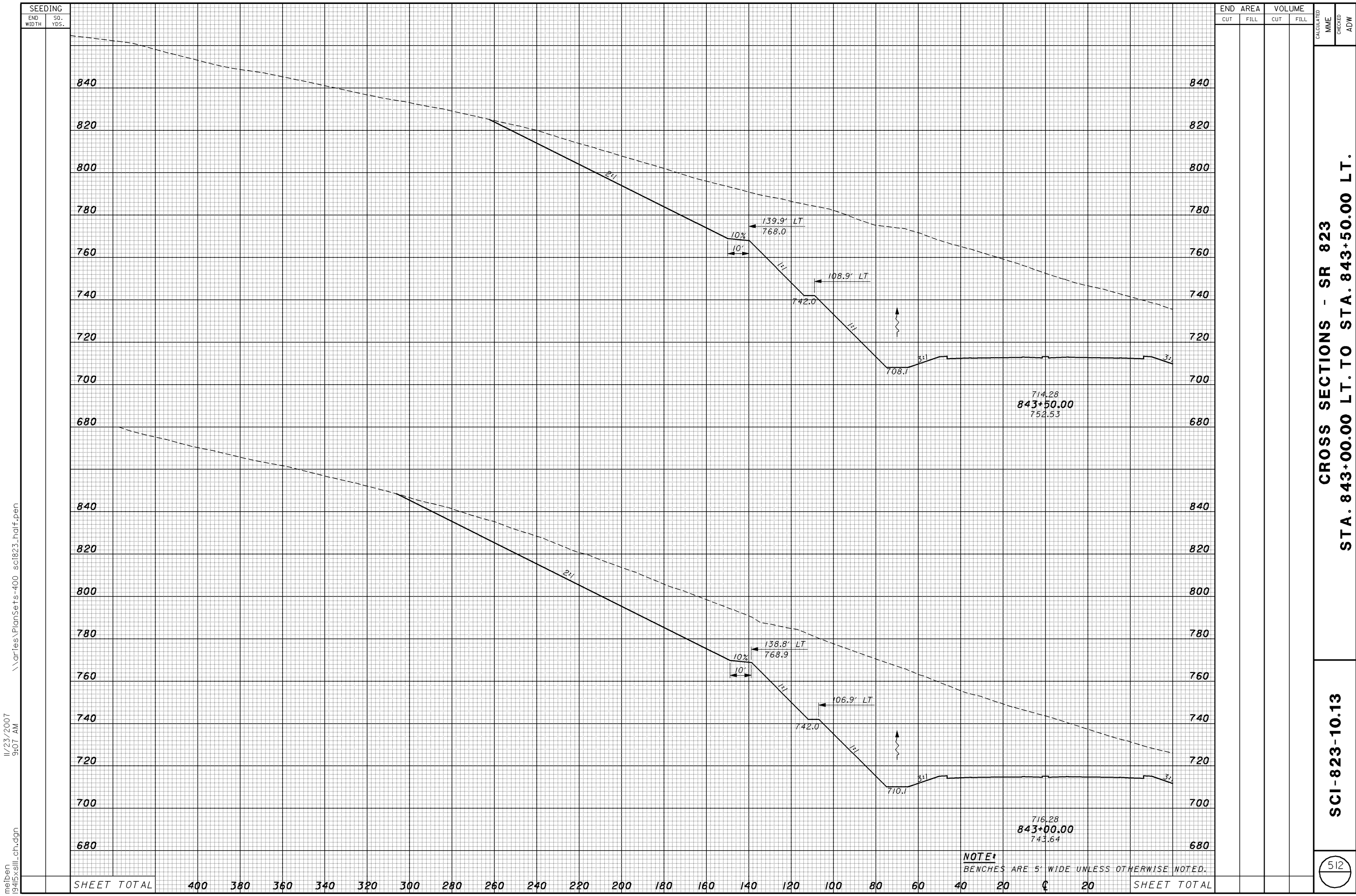
END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		
				MME	ADW

CROSS SECTIONS - SR 823
STA. 842+00.00 RT. TO STA. 842+50.00 RT.

SCI-823-10.13

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 meiben 19415xsl0_ch.dgn

NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.



SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL

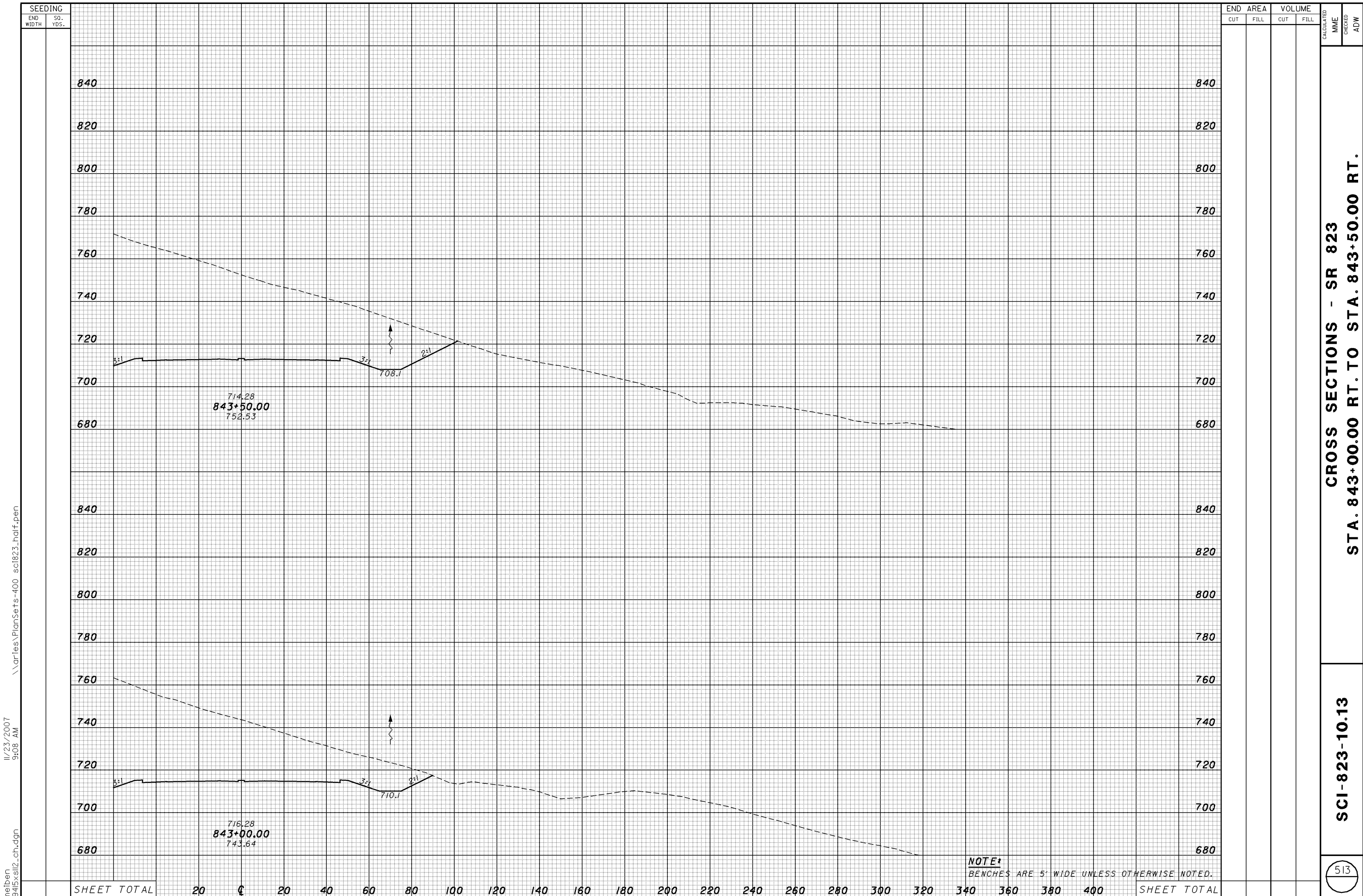
CALCULATED MME
 CHECKED ADW
CROSS SECTIONS - SR 823
STA. 843+00.00 LT. TO STA. 843+50.00 LT.

SCI-823-10.13

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SHEET TOTAL	400	380	360	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	SHEET TOTAL
-------------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	-------------

NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.



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meiben 1945xsl2_ch.dgn

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

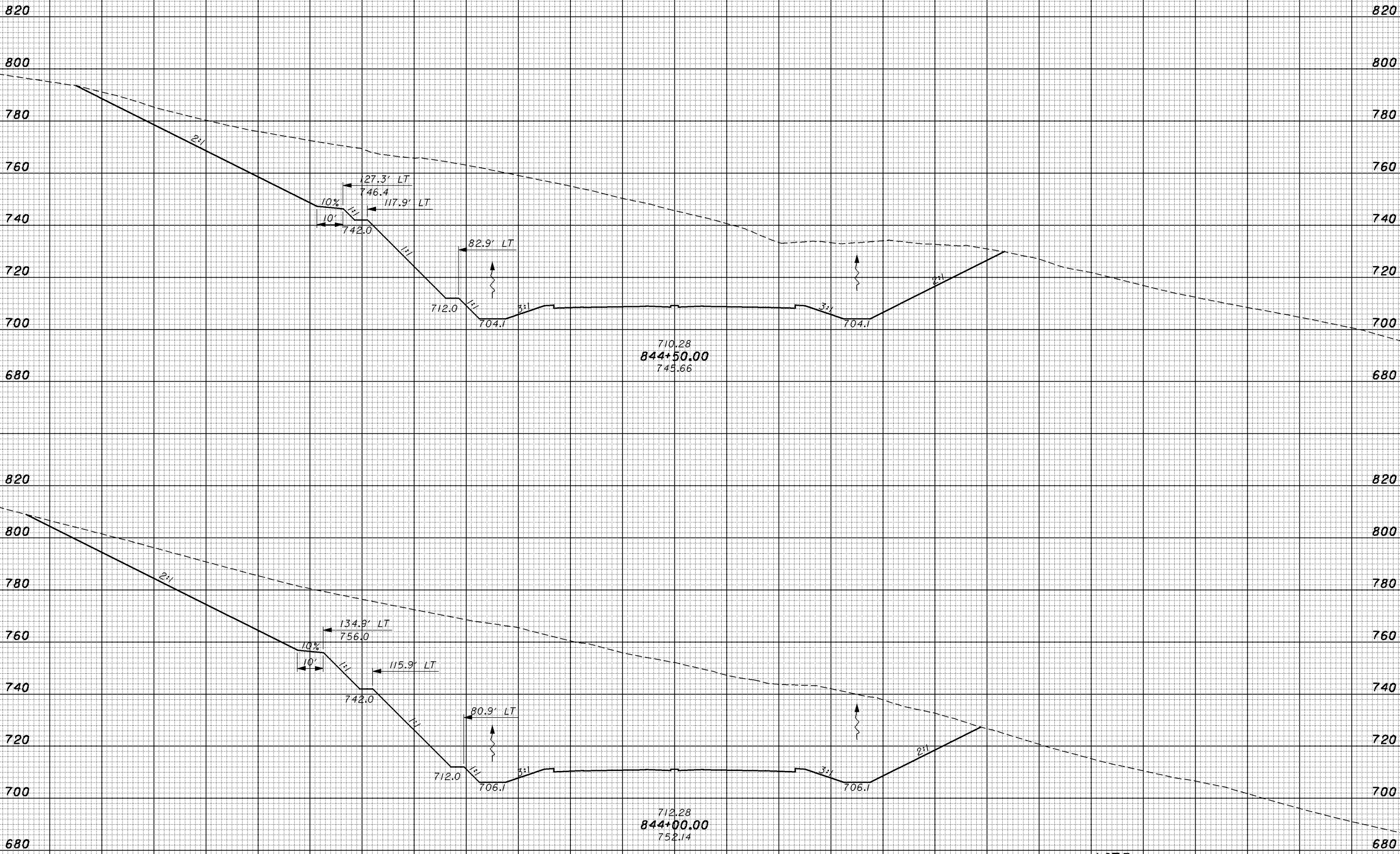
CROSS SECTIONS - SR 823
STA. 843+00.00 RT. TO STA. 843+50.00 RT.

SCI-823-10.13

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	MME
CHECKED	ADW



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SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
-------------	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-------------

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR 823
STA. 844+00.00 TO STA. 844+50.00

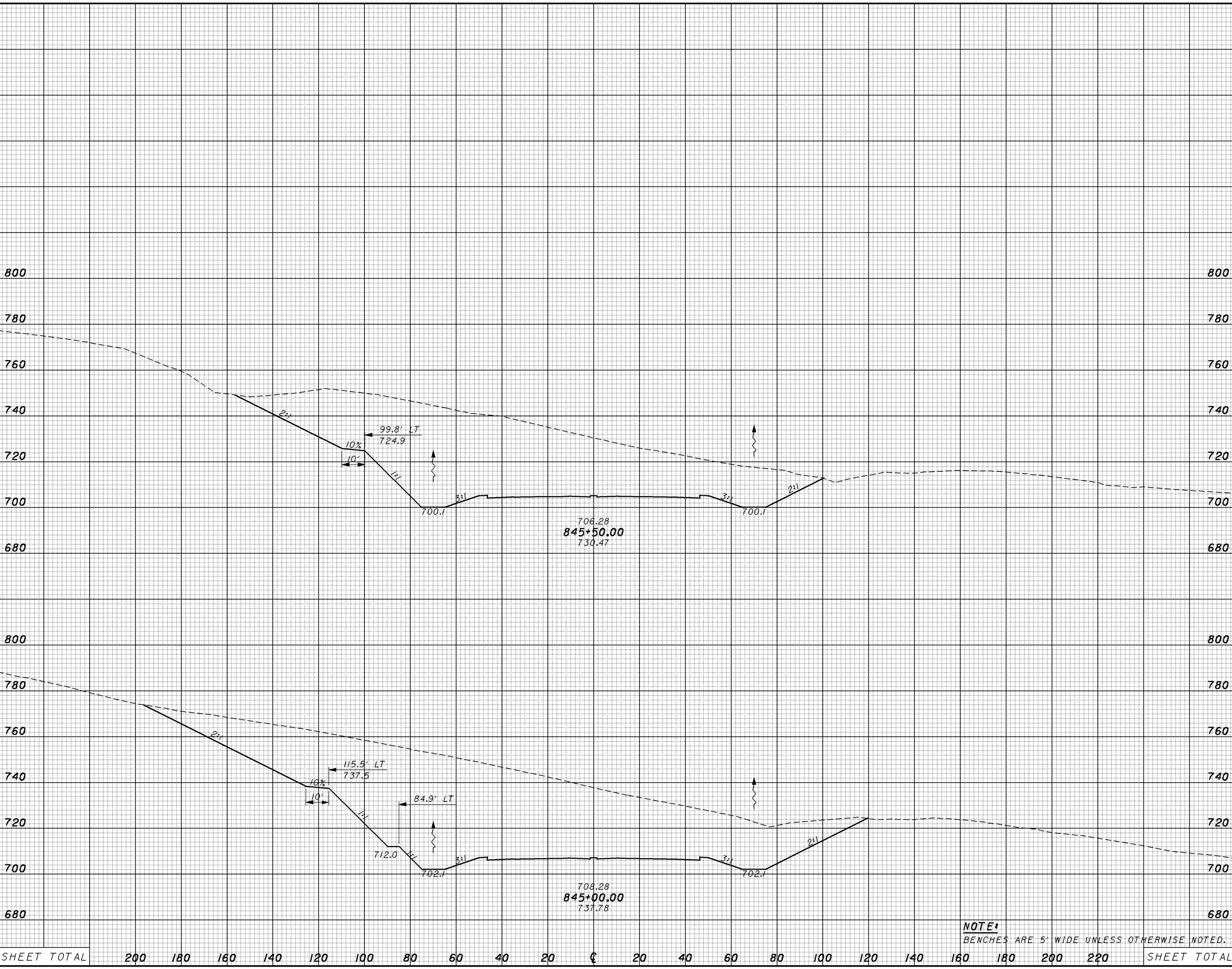
SCI-823-10.13

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	MME
CHECKED	ADW

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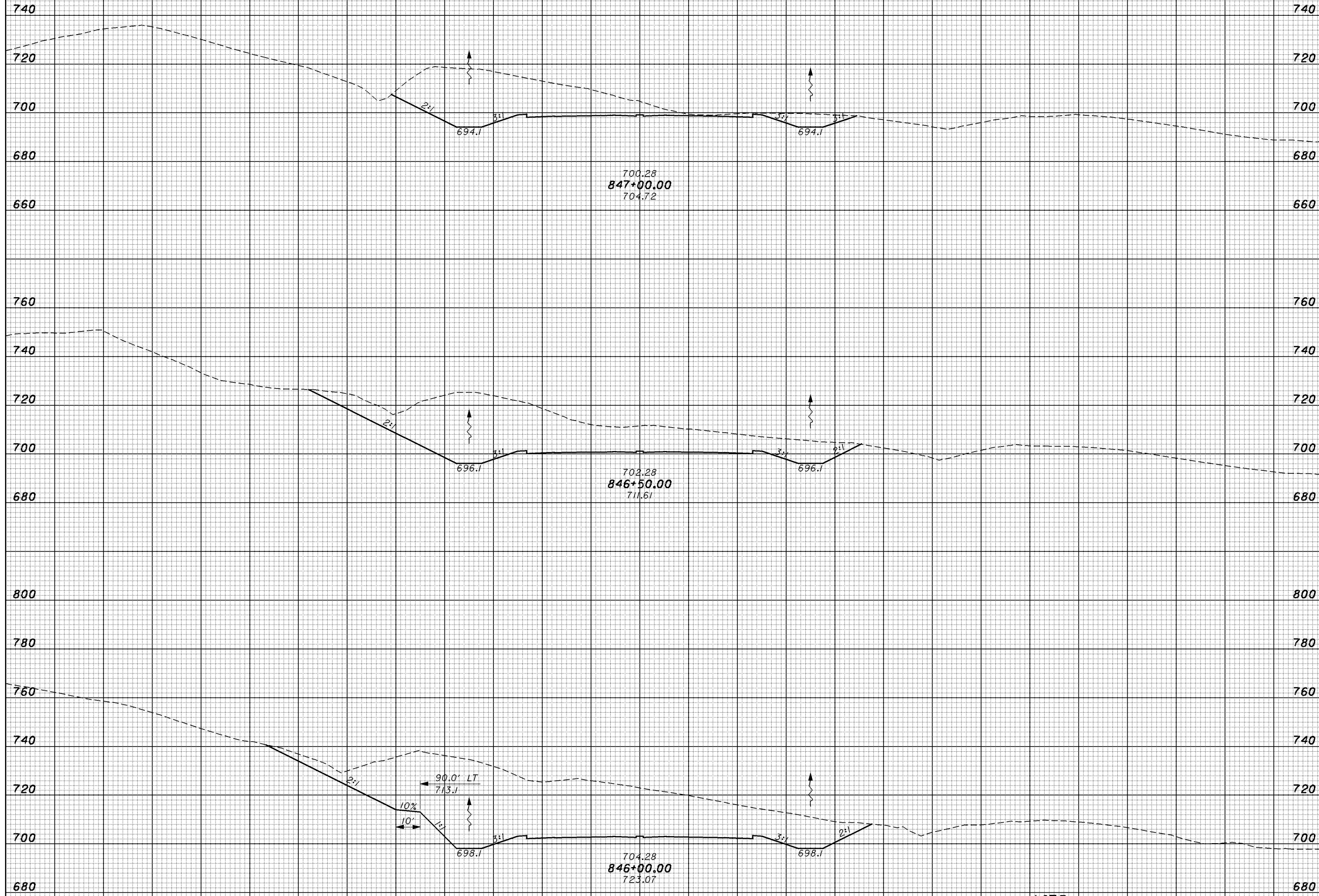
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS - SR 823
STA. 845+00.00 TO STA. 845+50.00

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SEEDING
 END WIDTH SQ. YDS.
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 melben 19415xsl5_ch.dgn

END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 CL 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR 823
 STA. 846+00.00 TO STA. 847+00.00

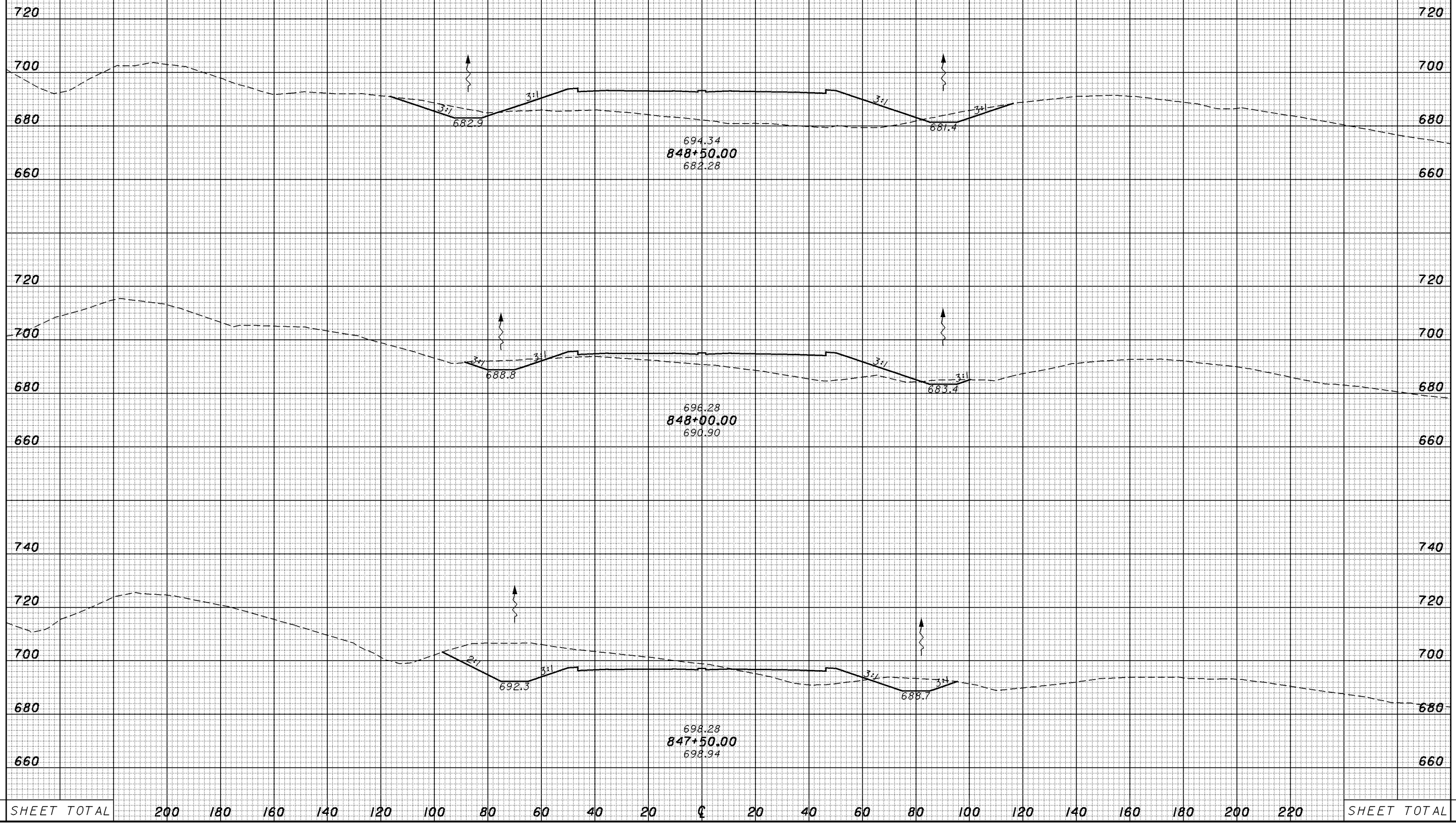
SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MME	ADW

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SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

**CROSS SECTIONS - SR 823
STA. 847+50.00 TO STA. 848+50.00**

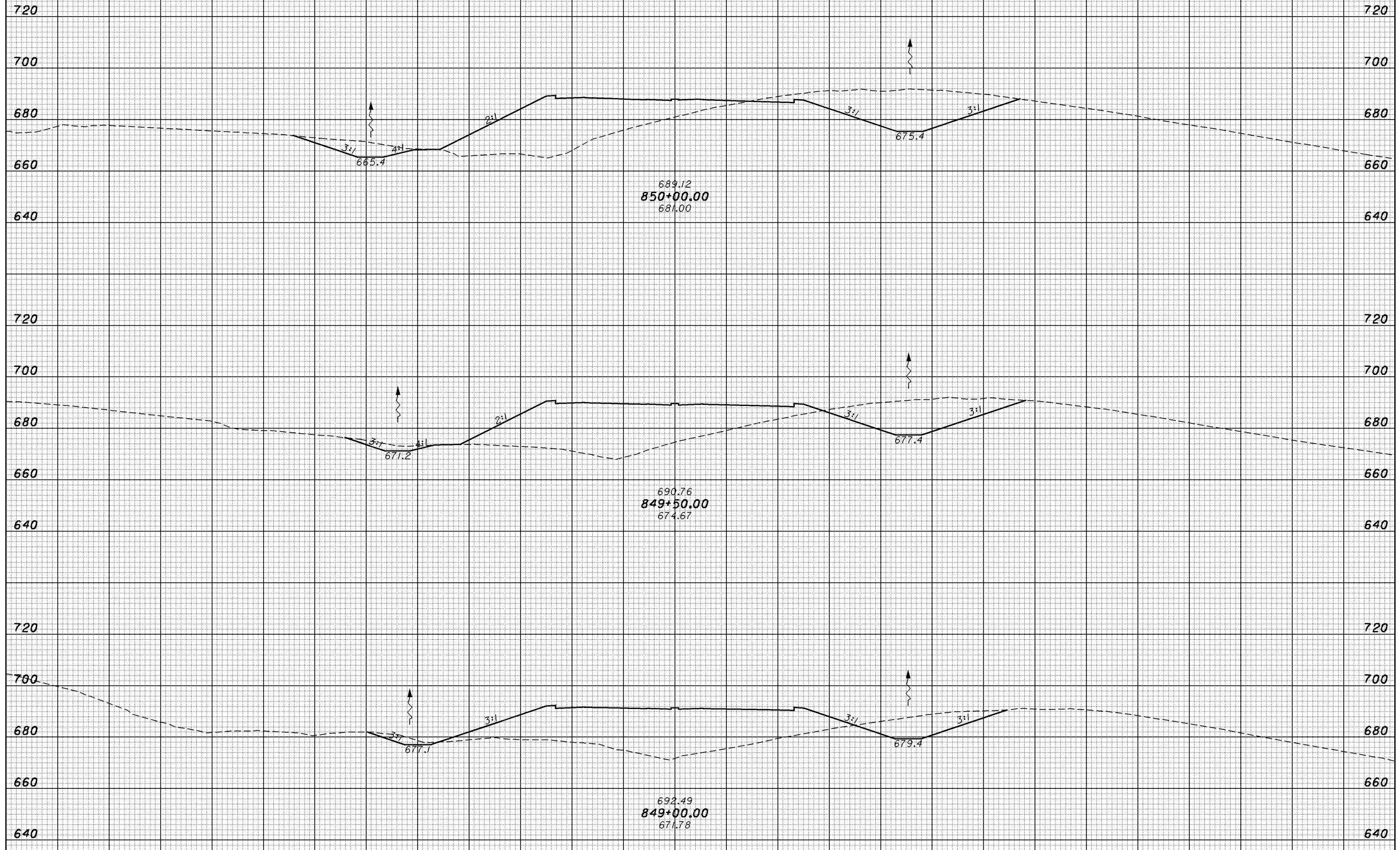
SCI-823-10.13

517

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MME	ADW



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

**CROSS SECTIONS - SR 823
STA. 849+00.00 TO STA. 850+00.00**

SCI-823-10.13

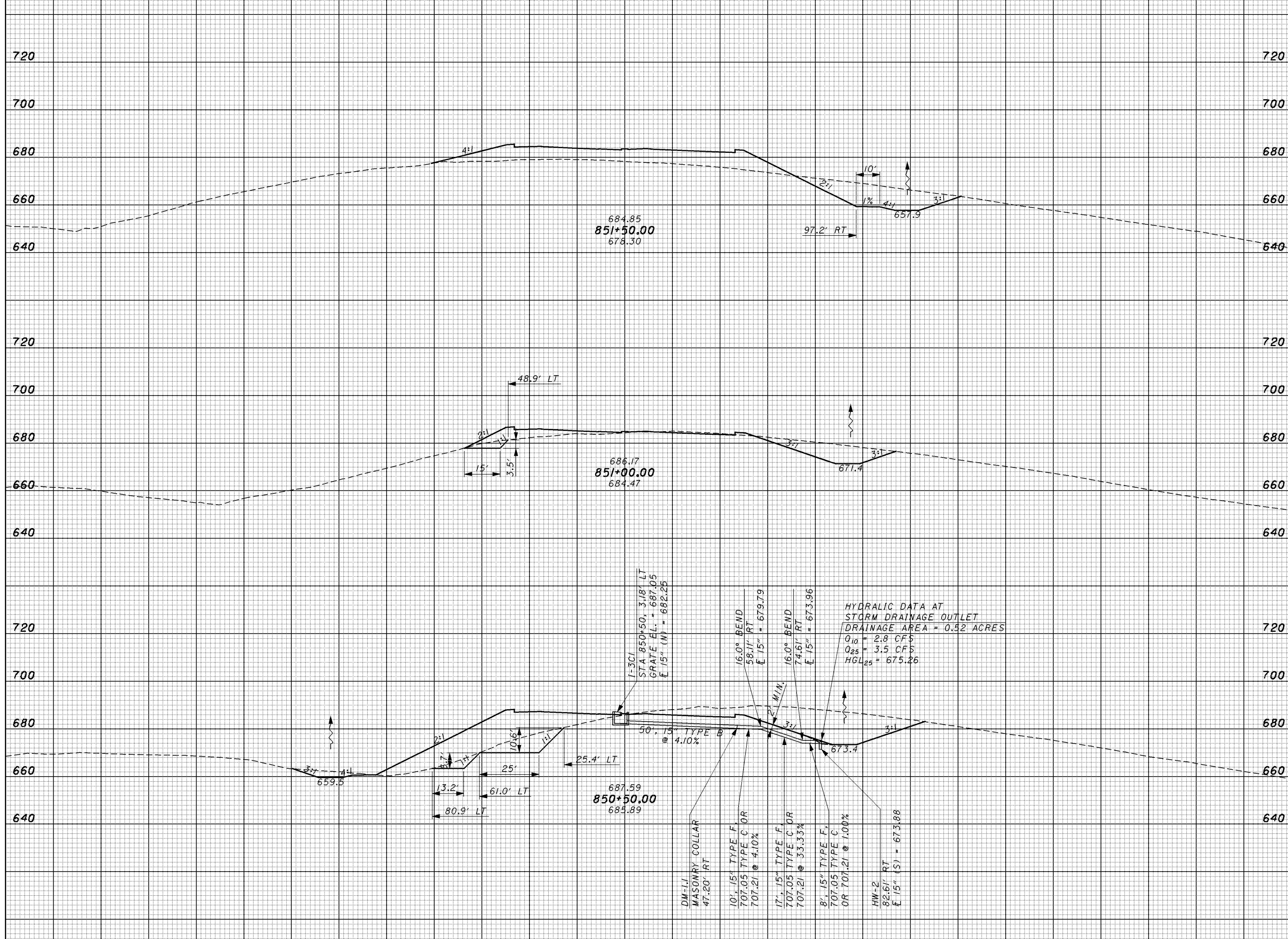
518

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meiben 1945xsl7_ch.dgn

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

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meiben 19415xsl8_ch.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - SR 823
STA. 850+50.00 TO STA. 851+50.00

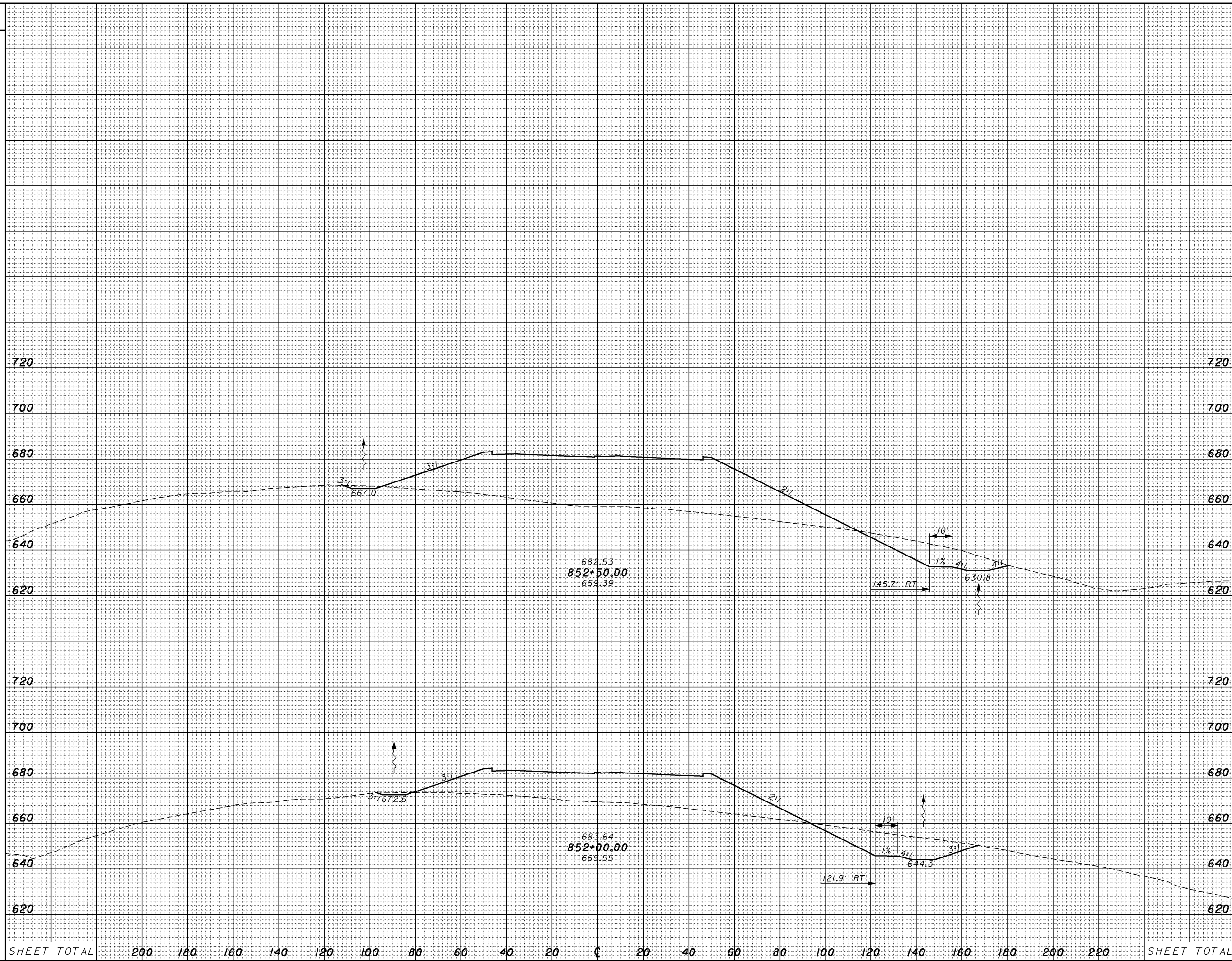
SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MME
CHECKED
ADW

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meiben
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SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS - SR 823
STA. 852+00.00 TO STA. 852+50.00

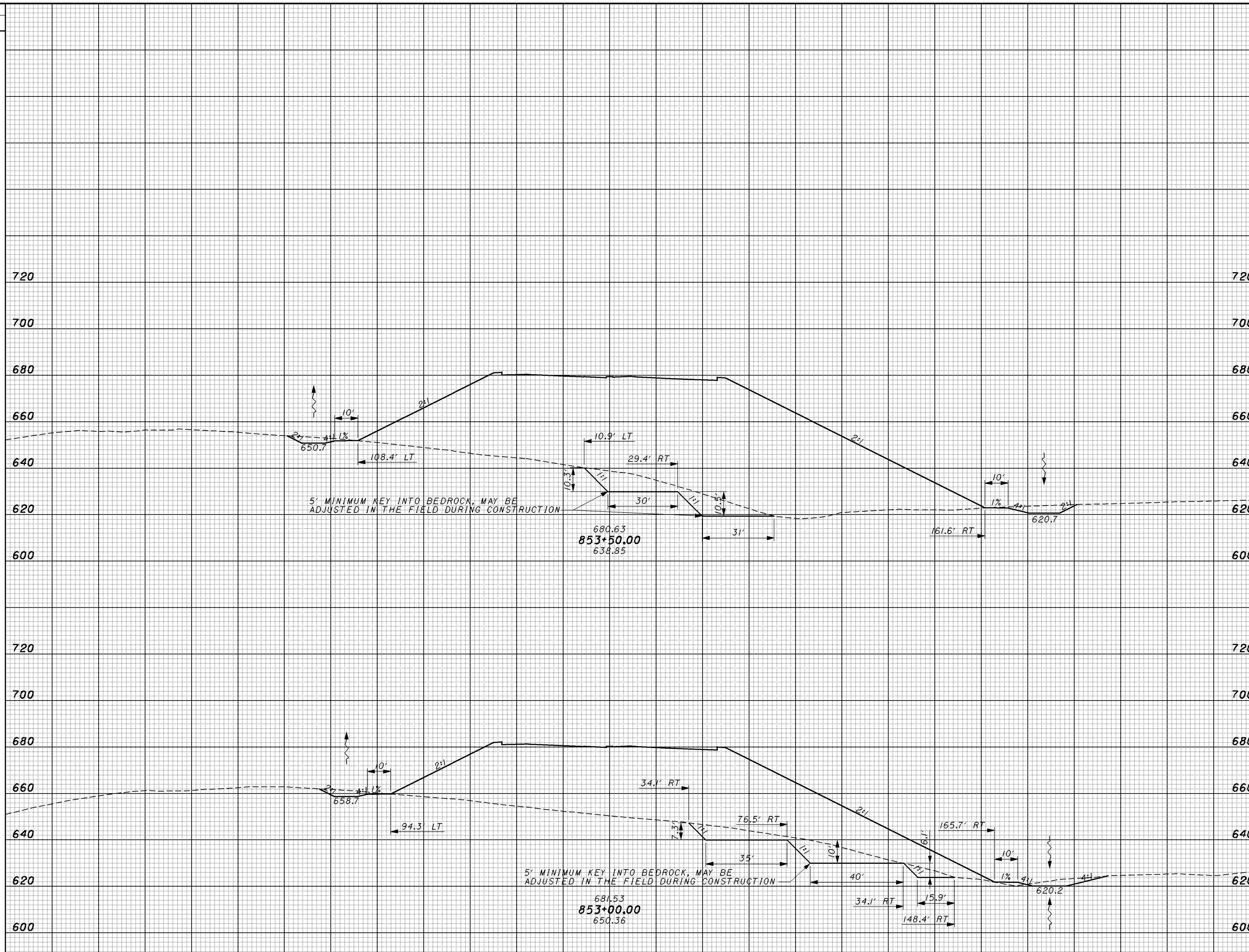
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520

SEEDING
 END WIDTH SQ. YDS.
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END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
 MME
 CHECKED
 ADW



SEEDING	END WIDTH	SQ. YDS.																	SHEET TOTAL						
			200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	

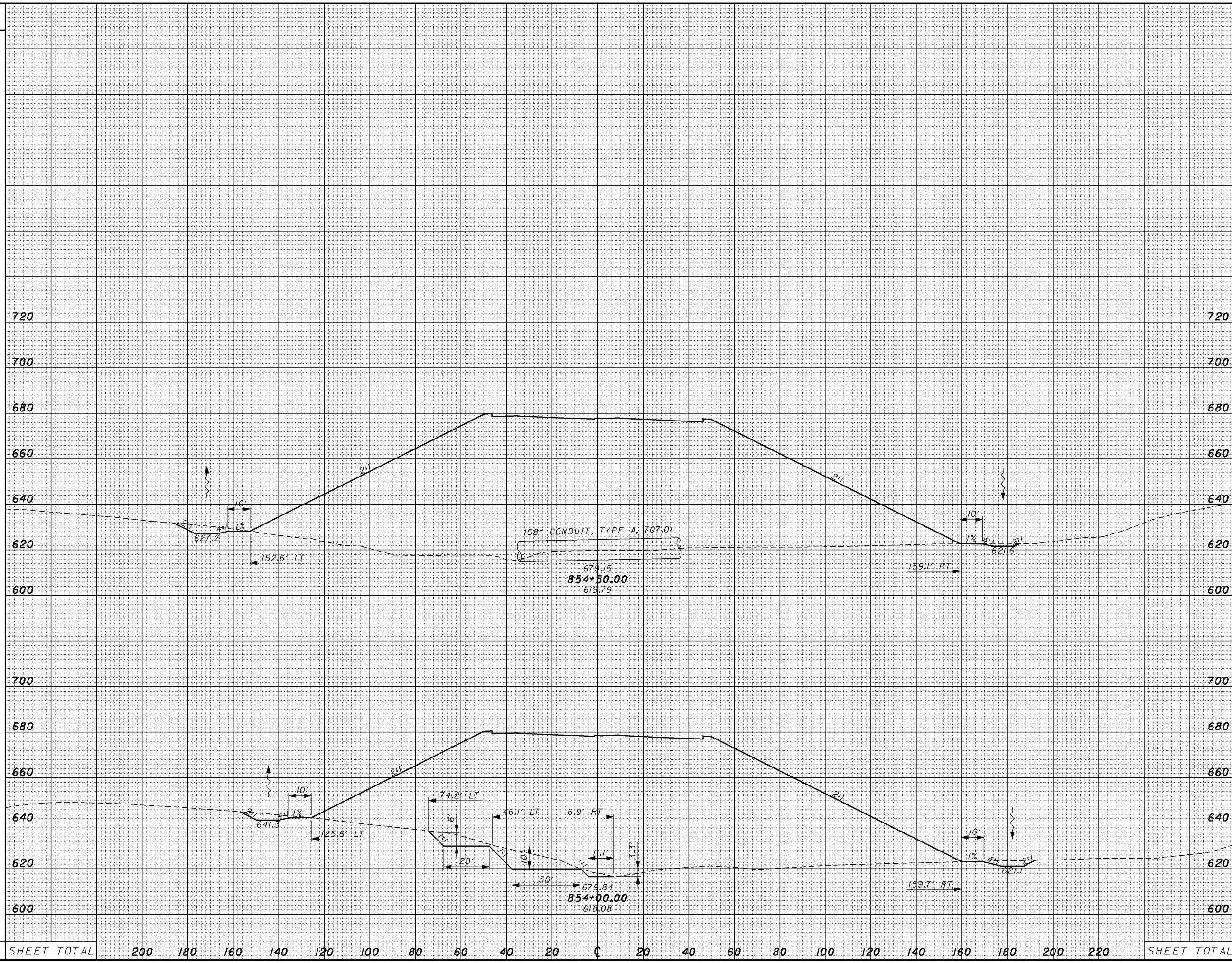
CROSS SECTIONS - SR 823
 STA. 853+00.00 TO STA. 853+50.00

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

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SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

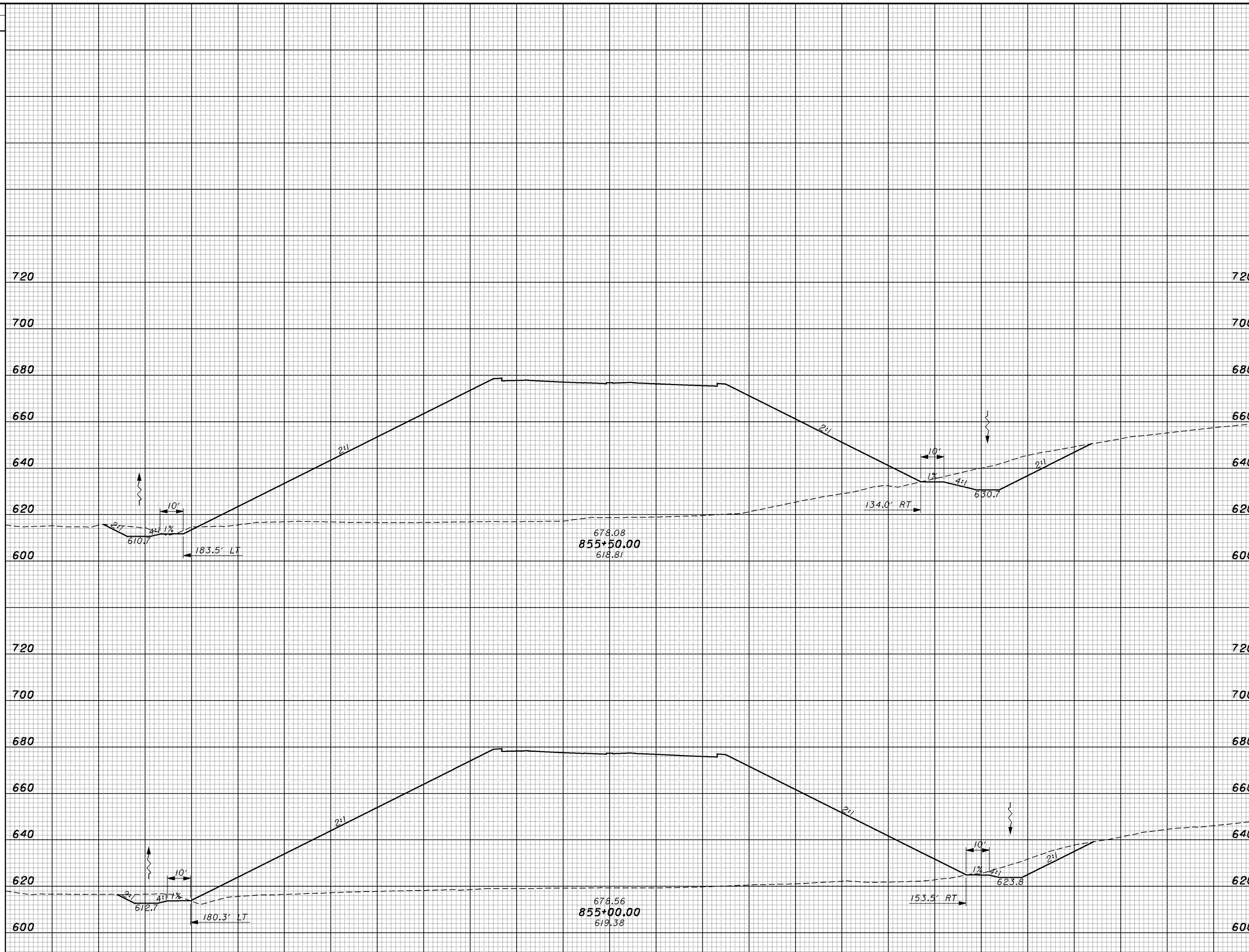
CROSS SECTIONS - SR 823
 STA. 854+00.00 TO STA. 854+50.00

SCI-823-10.13

522

SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



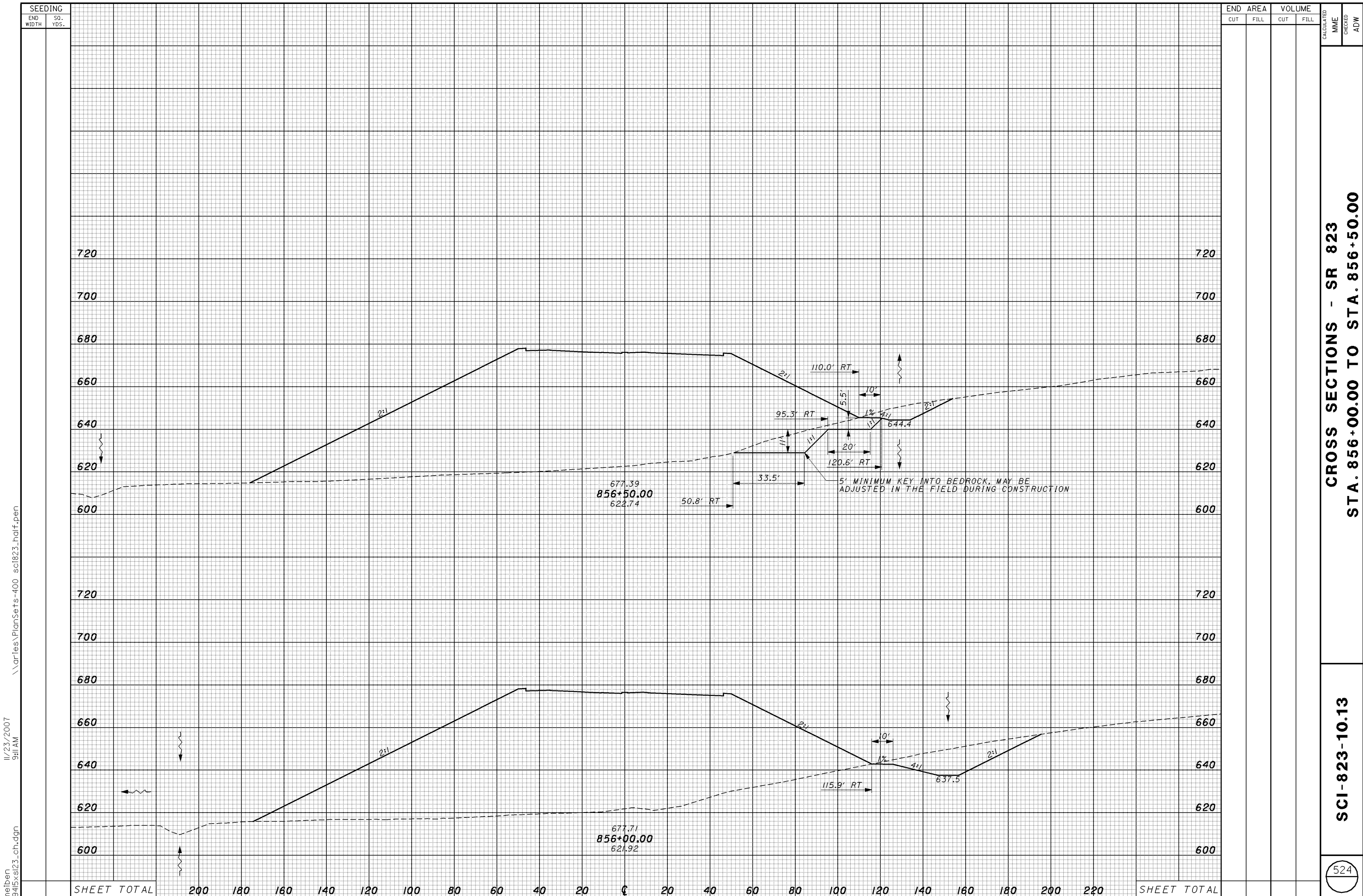
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

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meiben 1945xsl22_ch.dgn

CROSS SECTIONS - SR 823
STA. 855+00.00 TO STA. 855+50.00

SCI-823-10.13

523



SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MME	ADW

11/23/2007 9:11 AM \\aries\PlanSets-400_sci823_half.pen
meiben 19415xsl23_ch.dgn

CROSS SECTIONS - SR 823
STA. 856+00.00 TO STA. 856+50.00

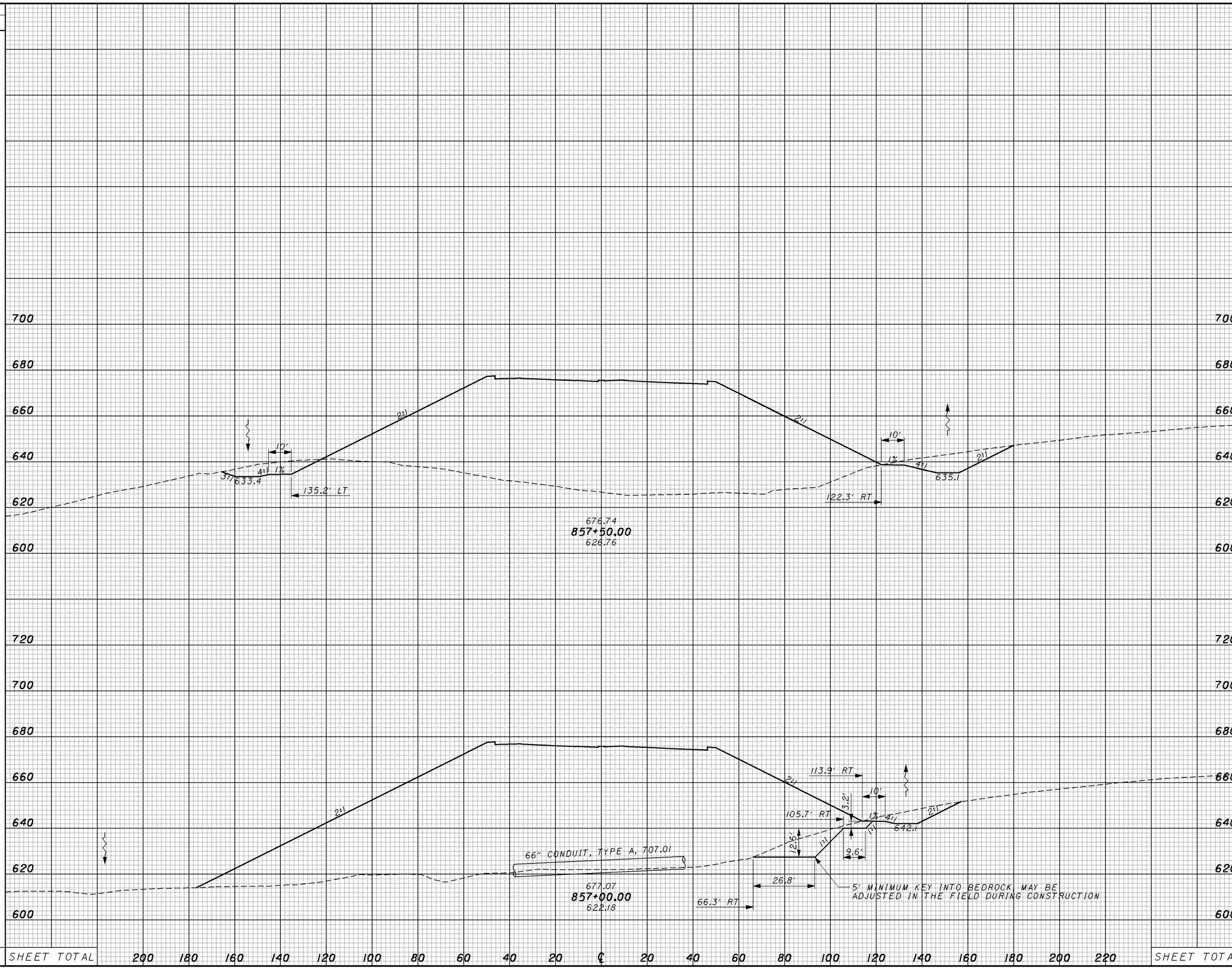
SCI-823-10.13

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

SEEDING
 END WIDTH SQ. YDS.
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END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
 MME
 CHECKED
 ADW



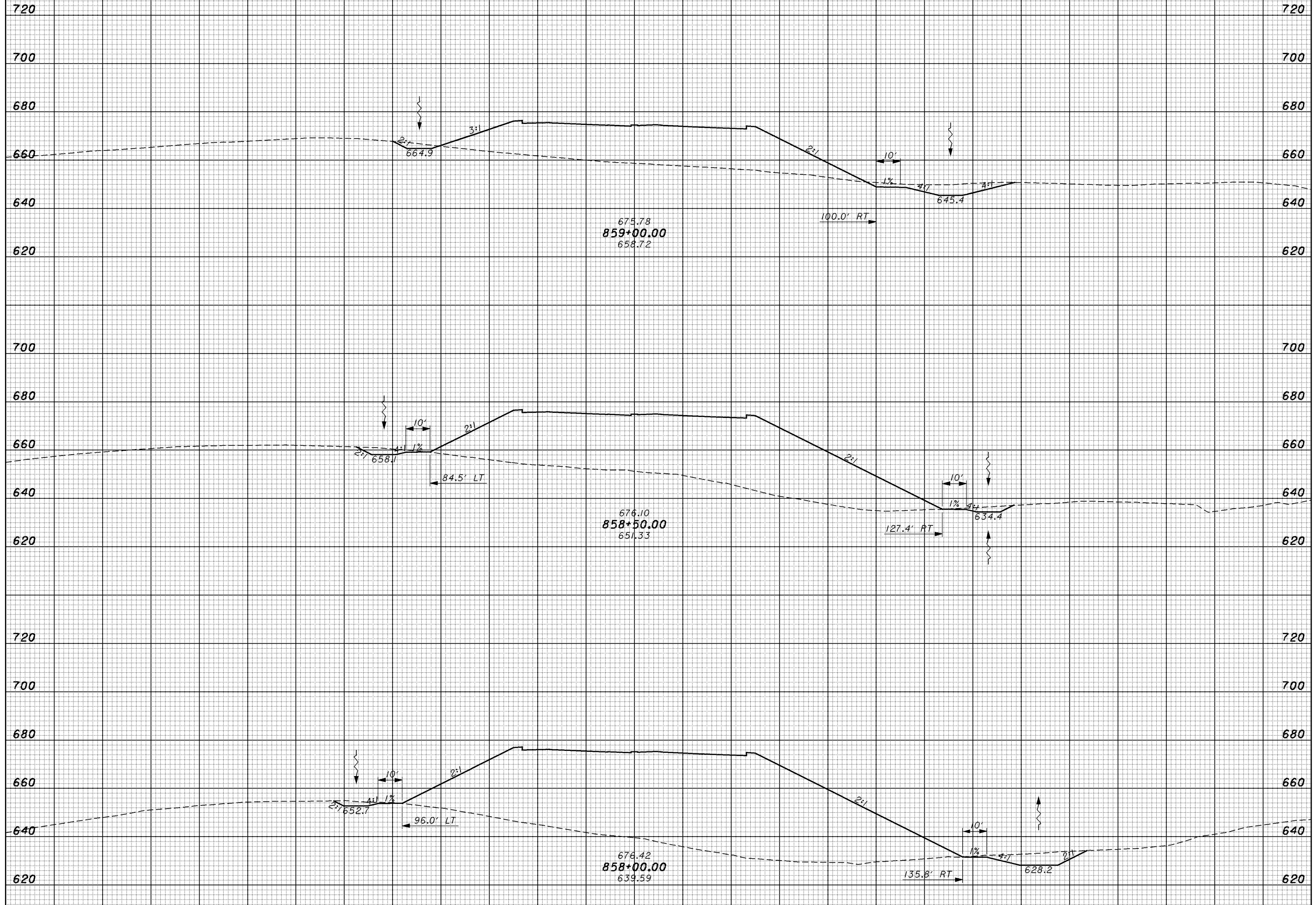
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

CROSS SECTIONS - SR 823
 STA. 857+00.00 TO STA. 857+50.00

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - SR 823
STA. 858+00.00 TO STA. 859+00.00

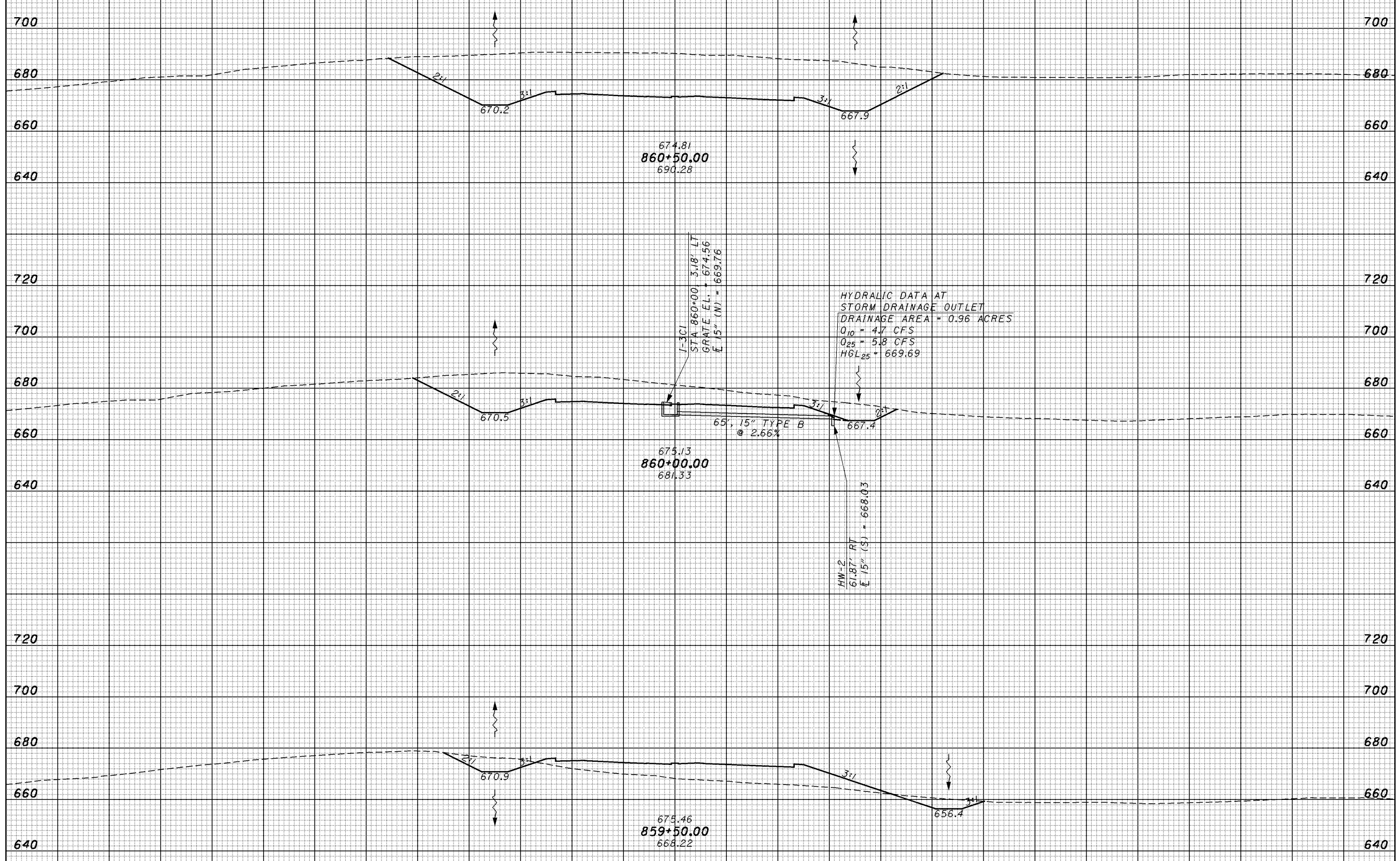
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526

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SEEDING
 END WIDTH SQ. YDS.
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 meiben 1945xsl26_ch.dgn

END AREA		VOLUME	
CUT	FILL	CUT	FILL



SEEDING	END WIDTH	SQ. YDS.	DISTANCE FROM CL (FEET)																				SHEET TOTAL		
			200	180	160	140	120	100	80	60	40	20	CL	20	40	60	80	100	120	140	160	180	200	220	

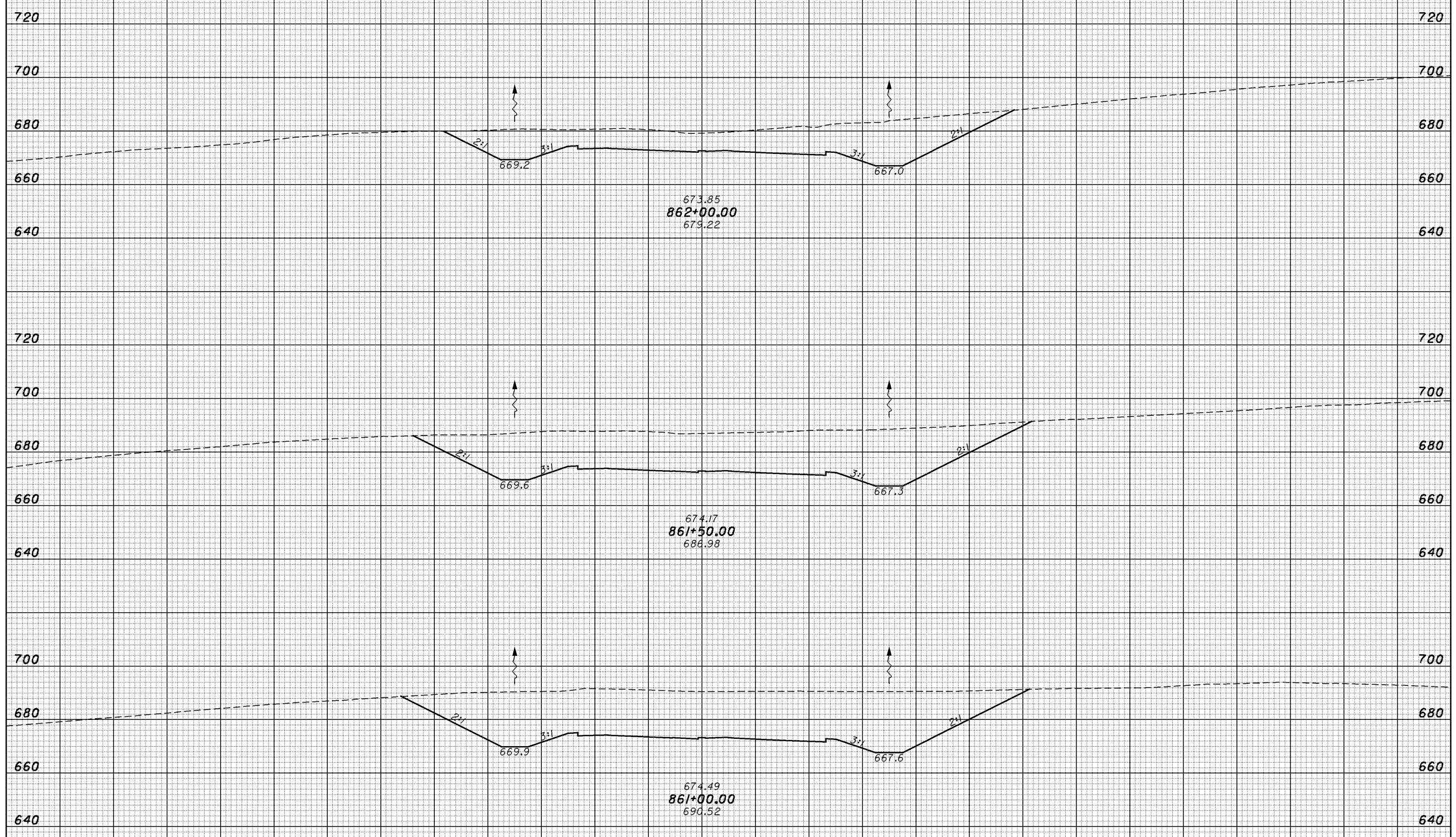
CROSS SECTIONS - SR 823
 STA. 859+50.00 TO STA. 860+50.00

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MME	ADW



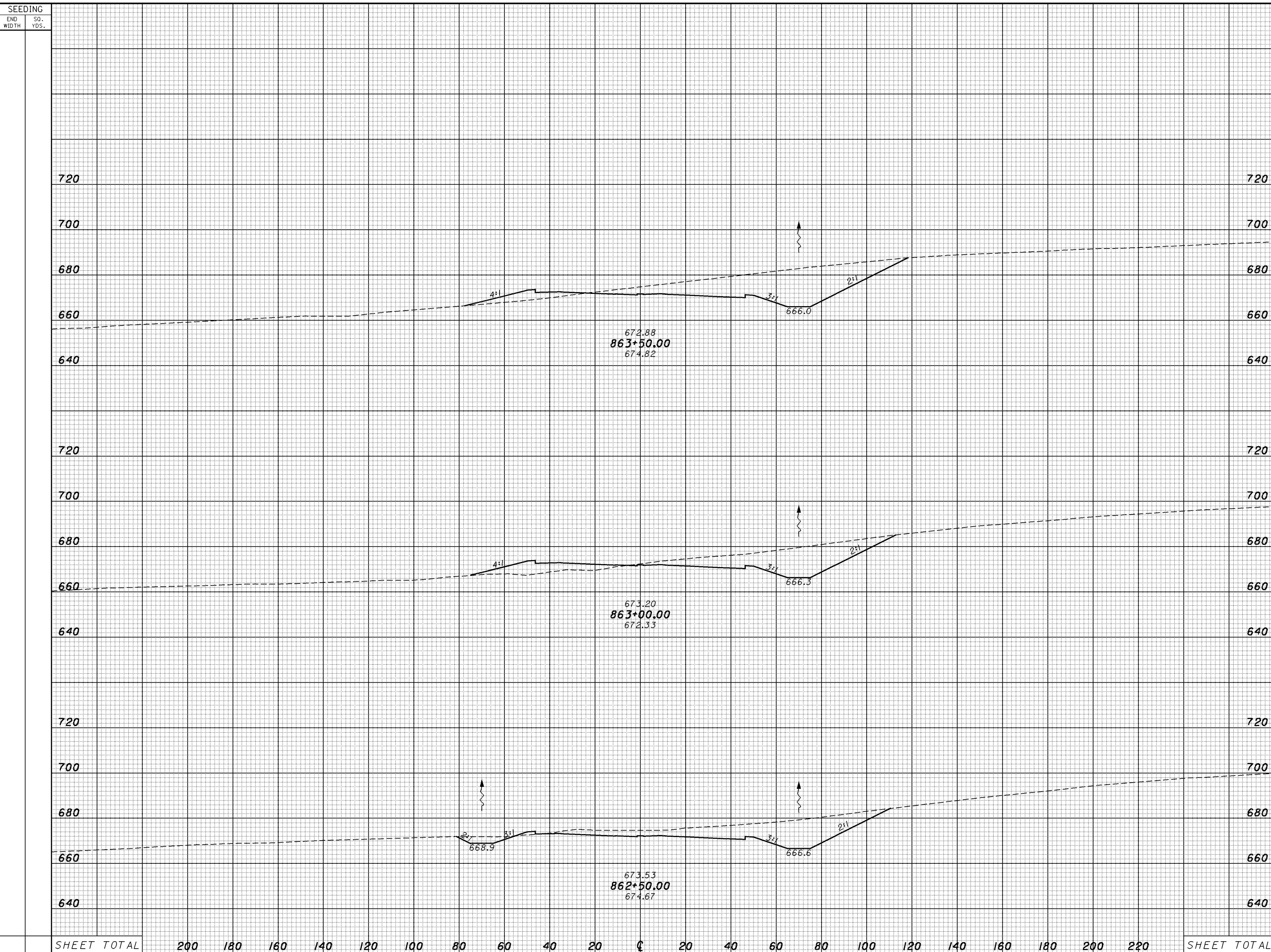
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

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**CROSS SECTIONS - SR 823
STA. 861+00.00 TO STA. 862+00.00**

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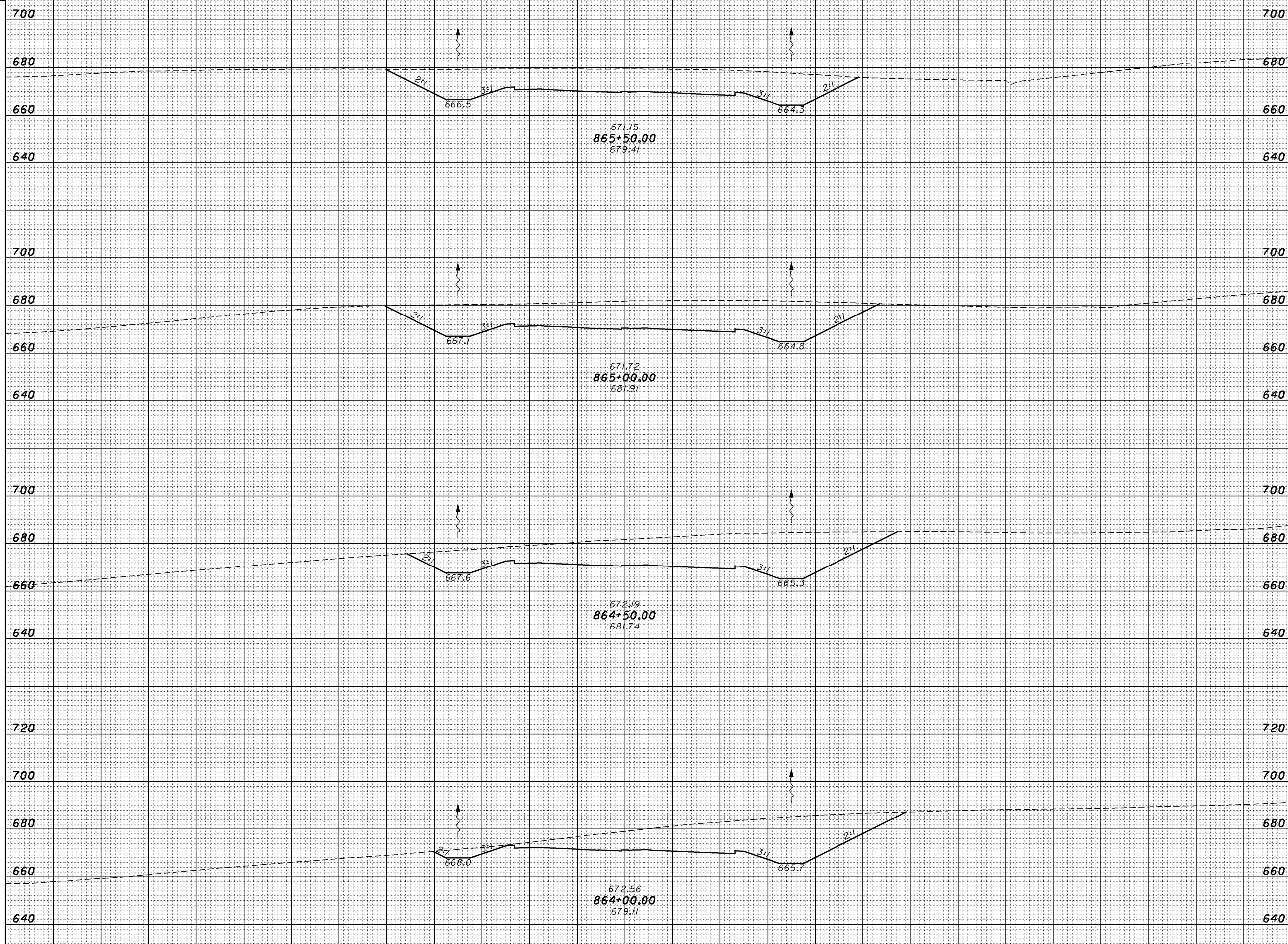
CROSS SECTIONS - SR 823
 STA. 862+50.00 TO STA. 863+50.00

SCI-823-10.13

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SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - SR 823
STA. 864+00.00 TO STA. 865+50.00

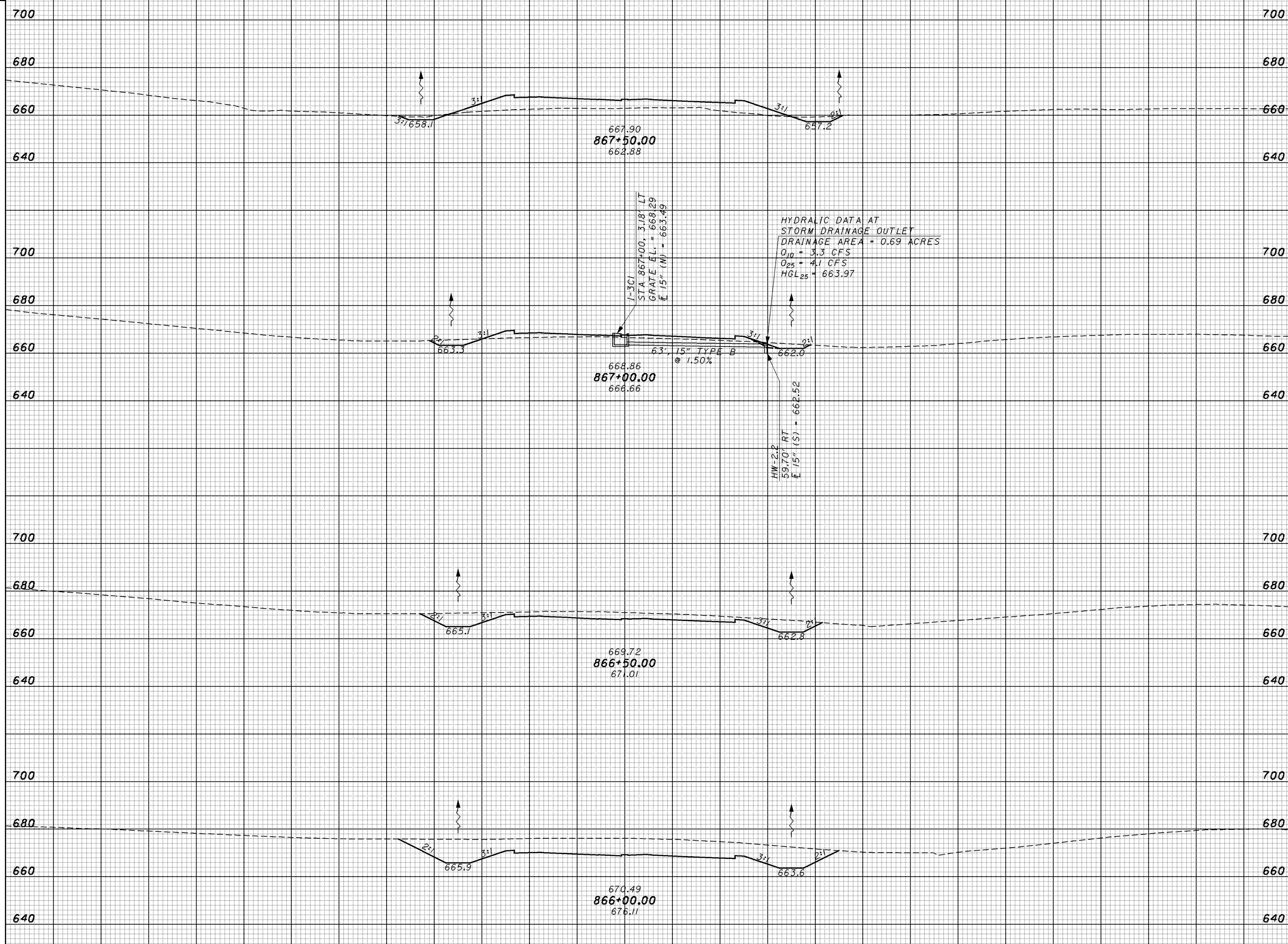
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530

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SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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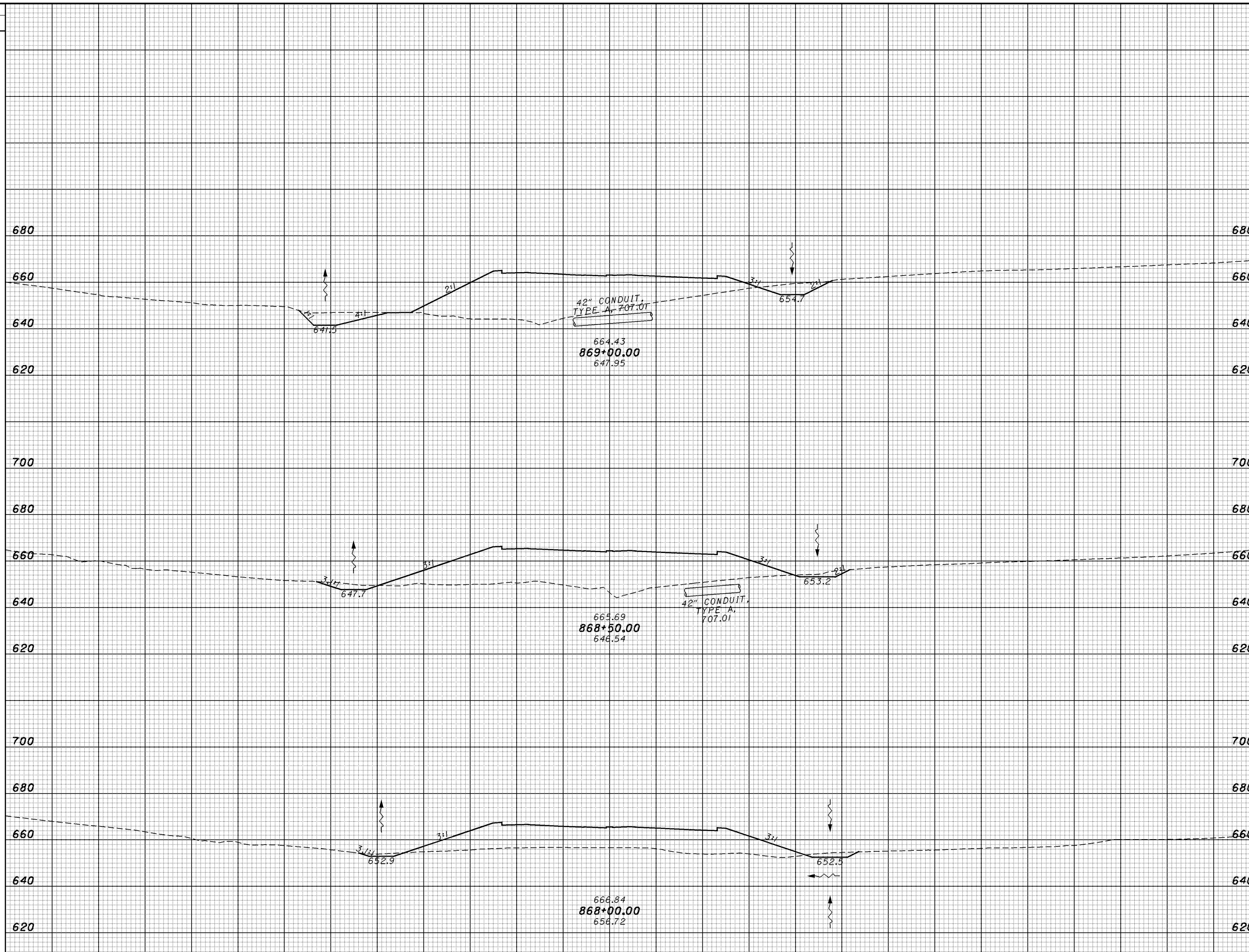
CROSS SECTIONS - SR 823
STA. 866+00.00 TO STA. 867+50.00

SCI-823-10.13

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9:13 AM
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SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

**CROSS SECTIONS - SR 823
STA. 868+00.00 TO STA. 869+00.00**

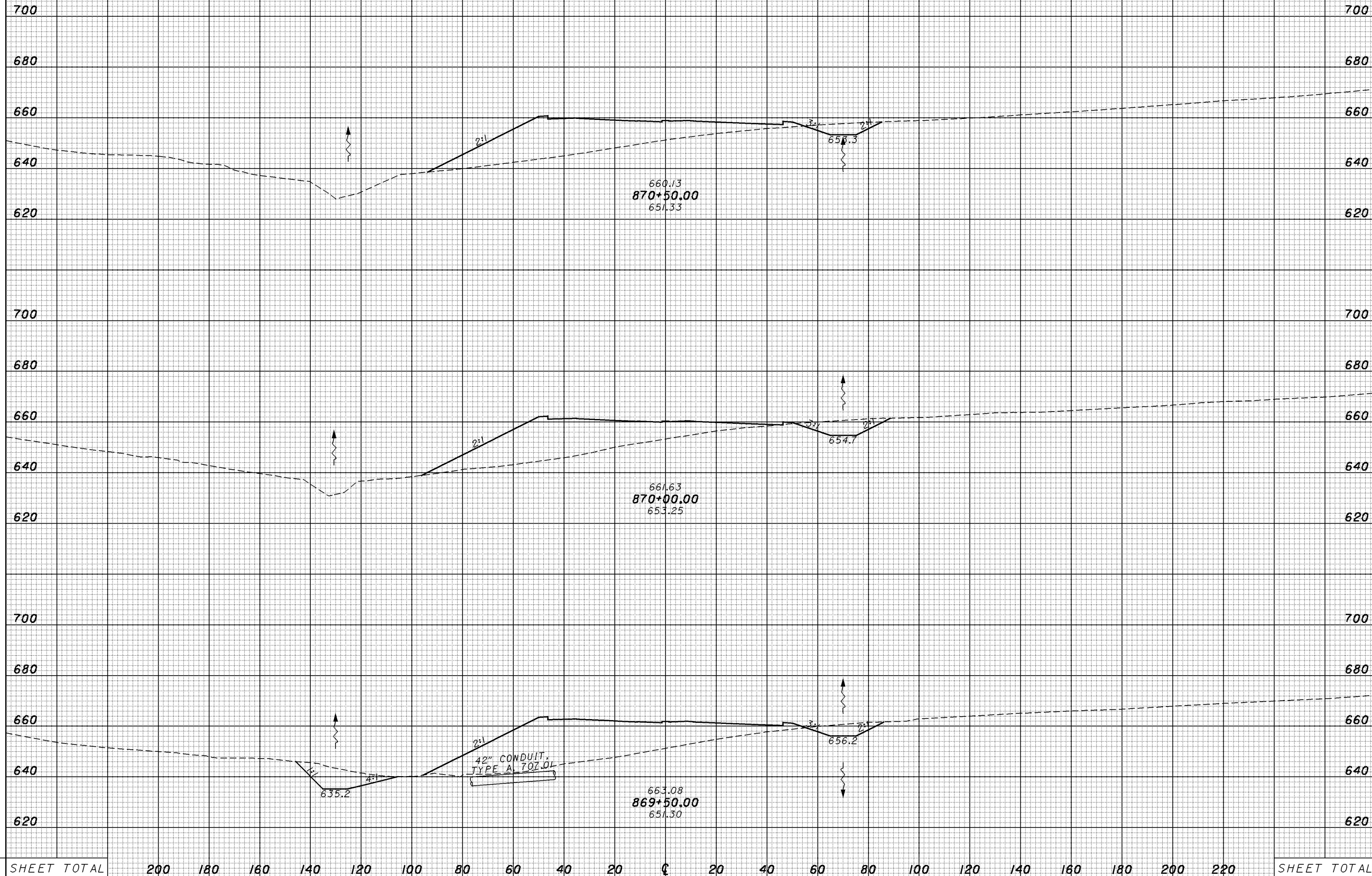
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532

meiben 11/23/2007 9:13 AM \\aries\PlanSets-400_sci823_half.pen

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



CROSS SECTIONS - SR 823
STA. 869+50.00 TO STA. 870+50.00

SCI-823-10.13

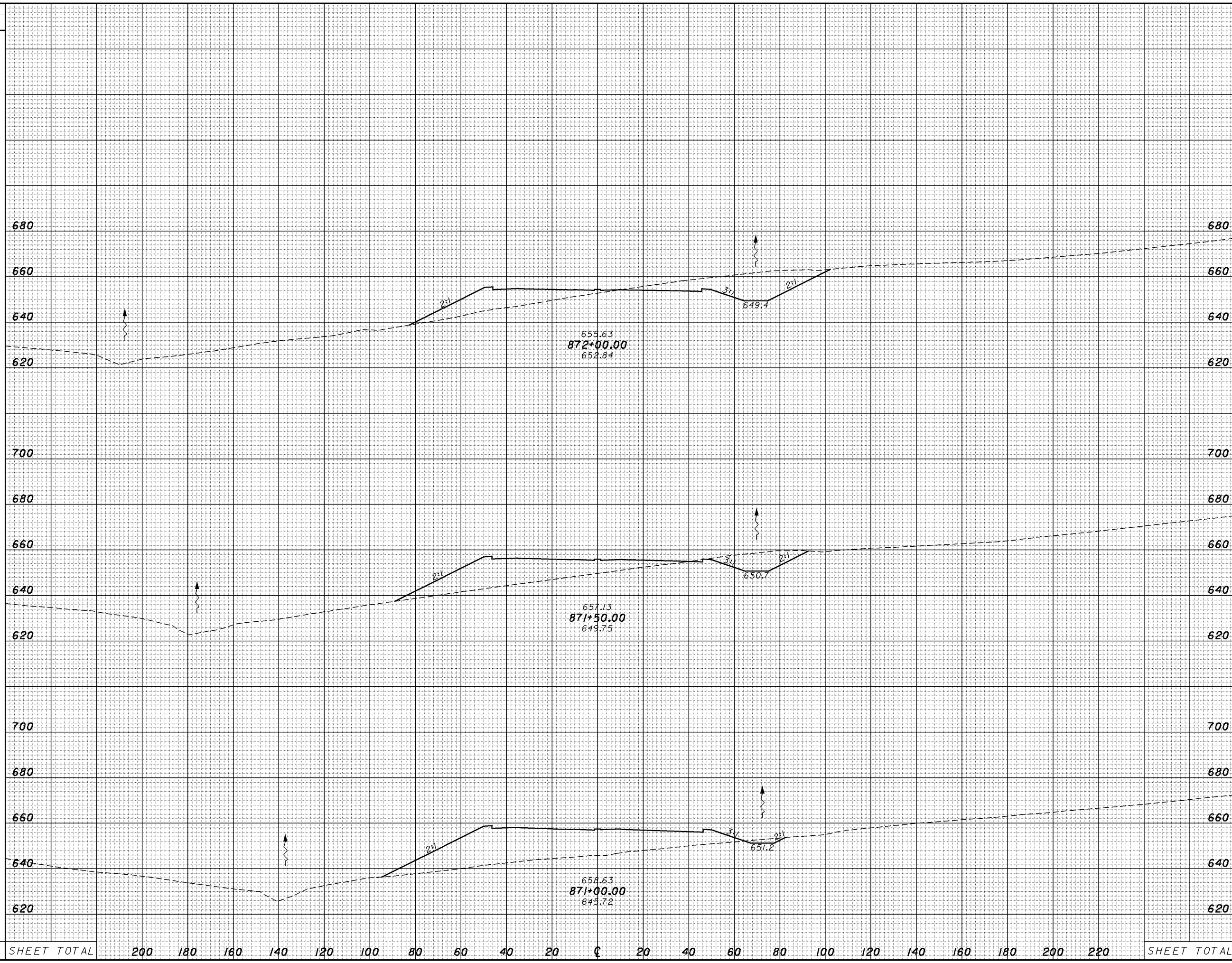
533

SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MME	ADW

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SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

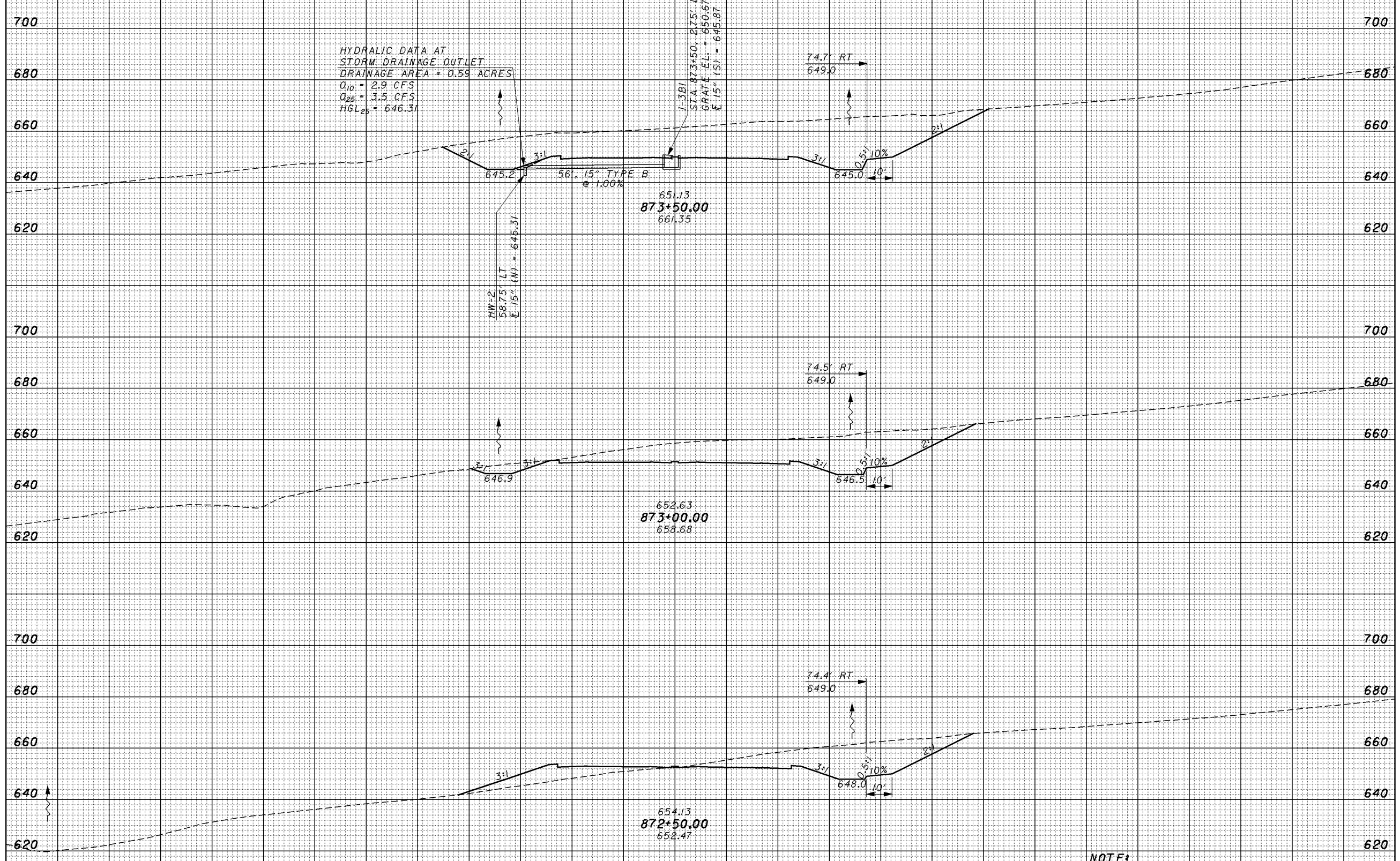
**CROSS SECTIONS - SR 823
STA. 871+00.00 TO STA. 872+00.00**

SCI-823-10.13

534

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 9:13 AM
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 melben 1945xsl34_ch.dgn

END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		



NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

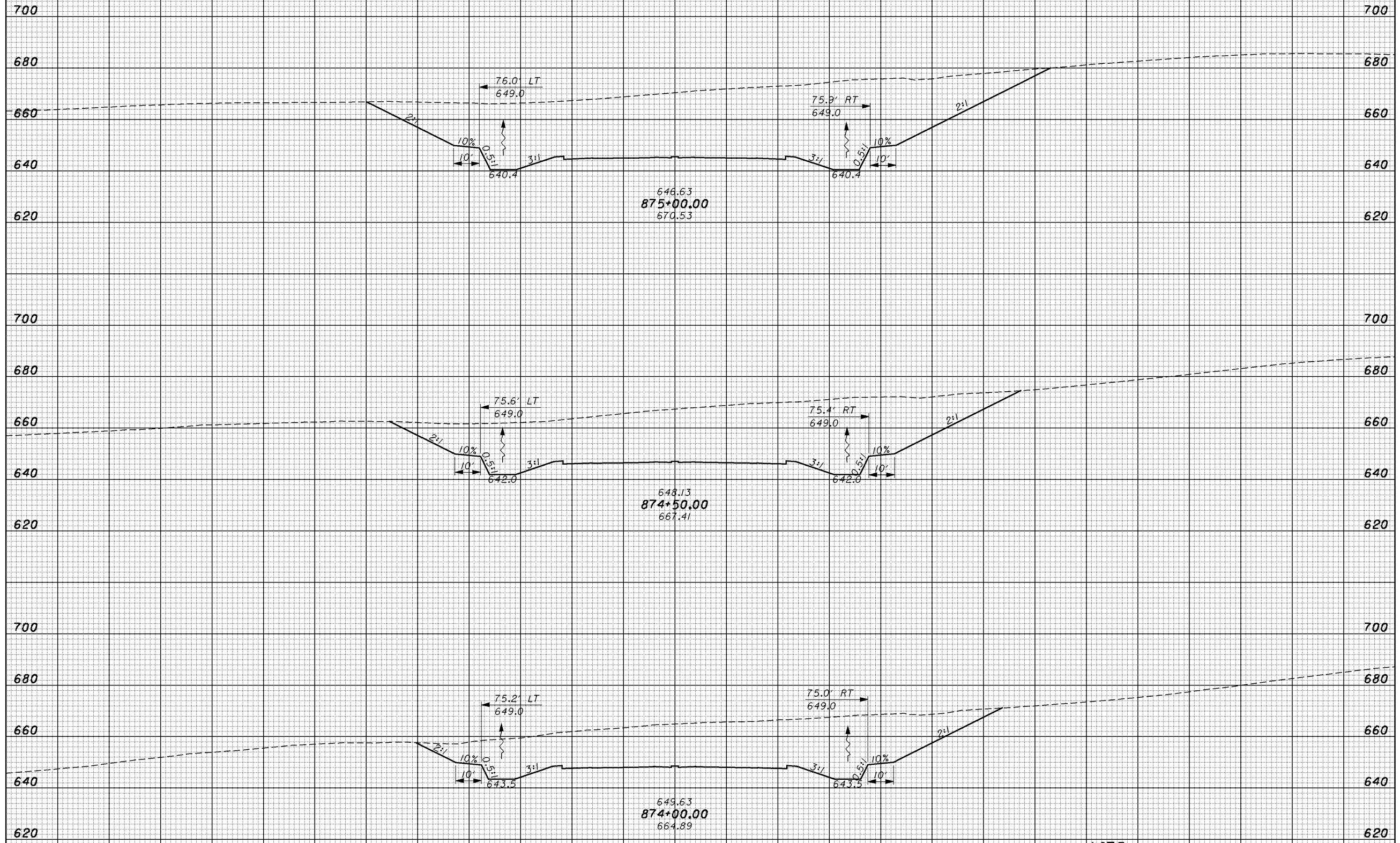
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
-------------	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-------------

CROSS SECTIONS - SR 823
 STA. 872+50.00 TO STA. 873+50.00

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR 823
STA. 874+00.00 TO STA. 875+00.00

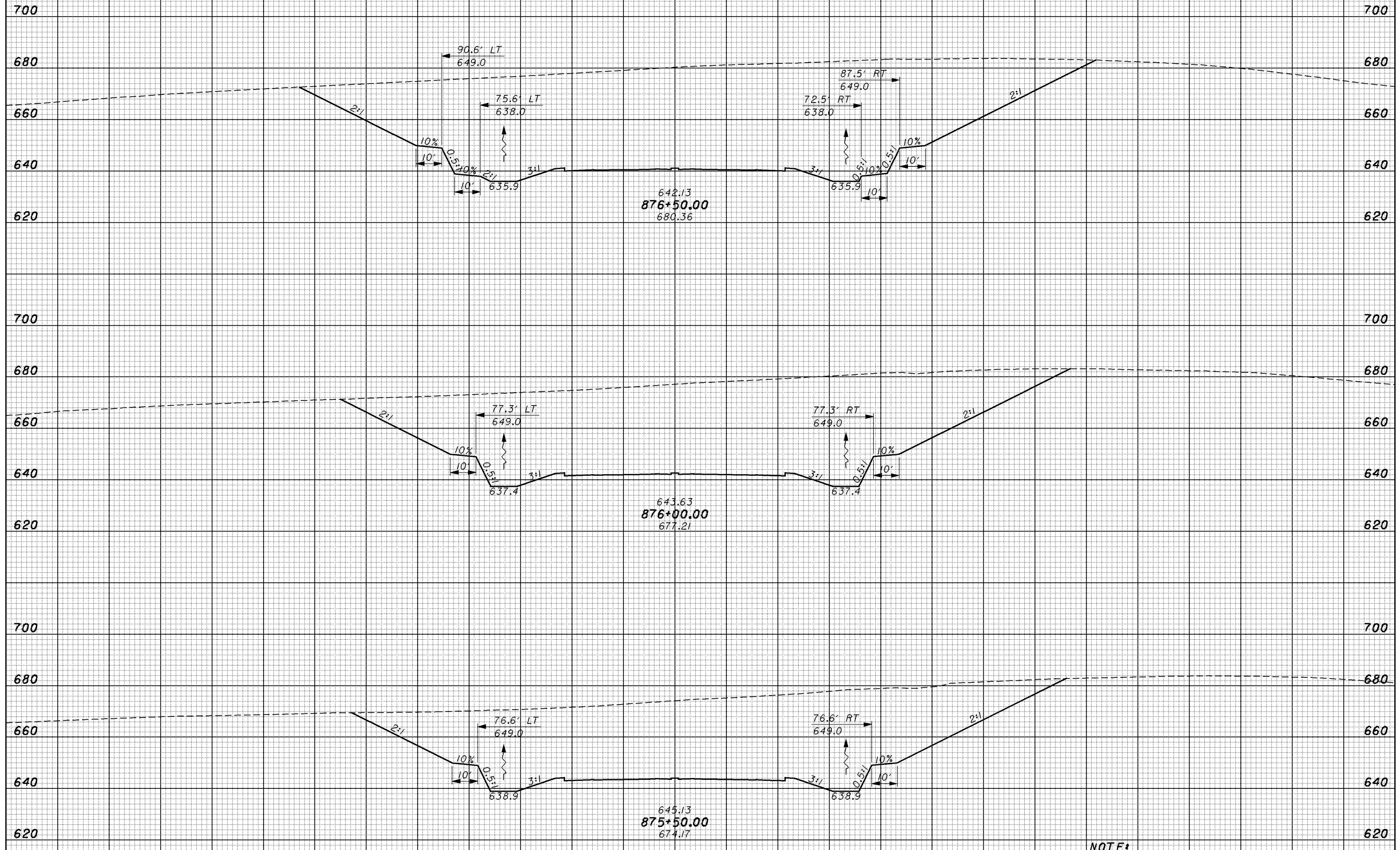
SCI-823-10.13

536

11/23/2007 9:14 AM
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meiben 1945xsl35_ch.dgn

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
-------------	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-------------

NOTE: BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR 823
STA. 875+50.00 TO STA. 876+50.00

SCI-823-10.13

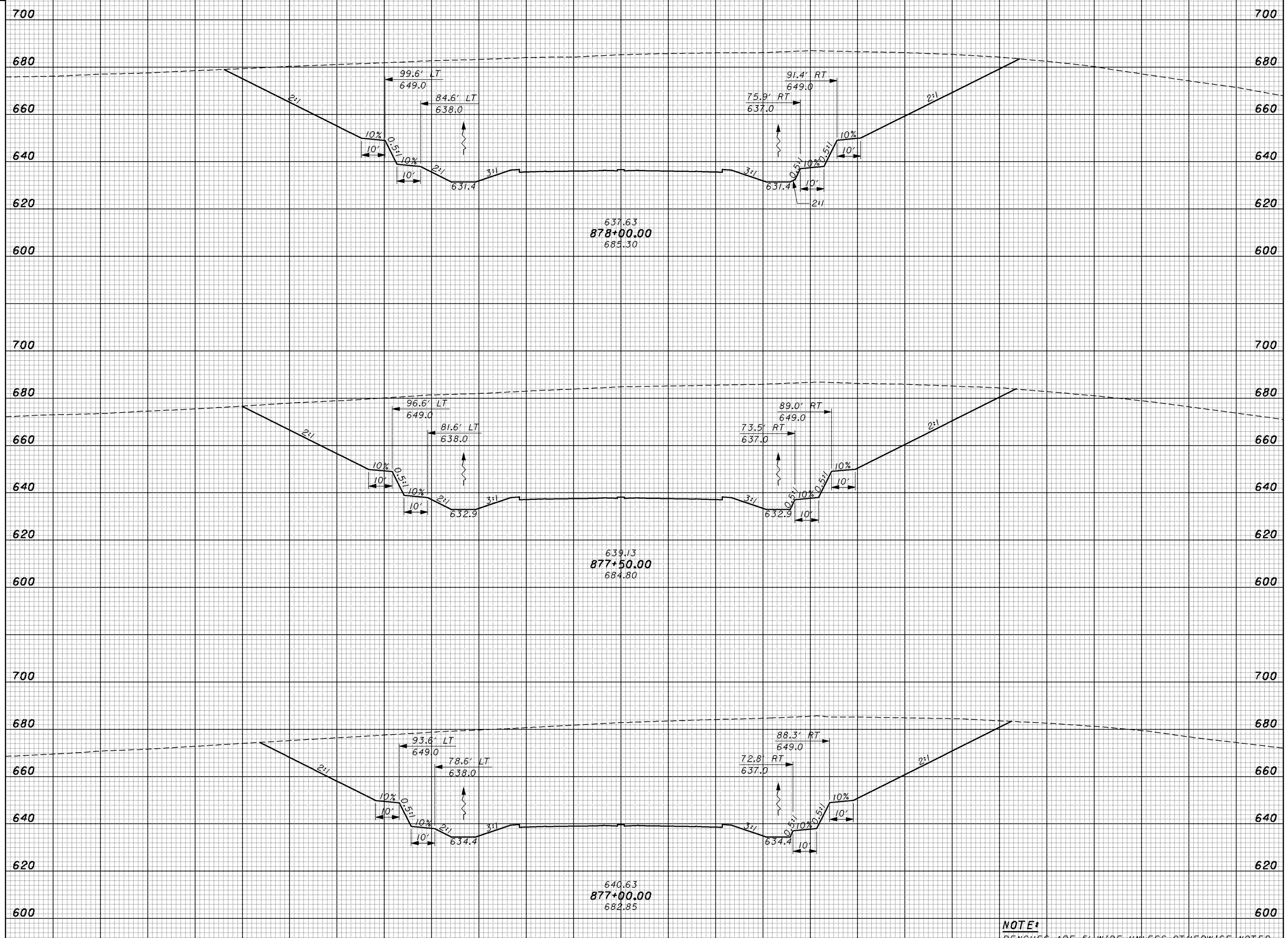
537

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meiben
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9:14 AM
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SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



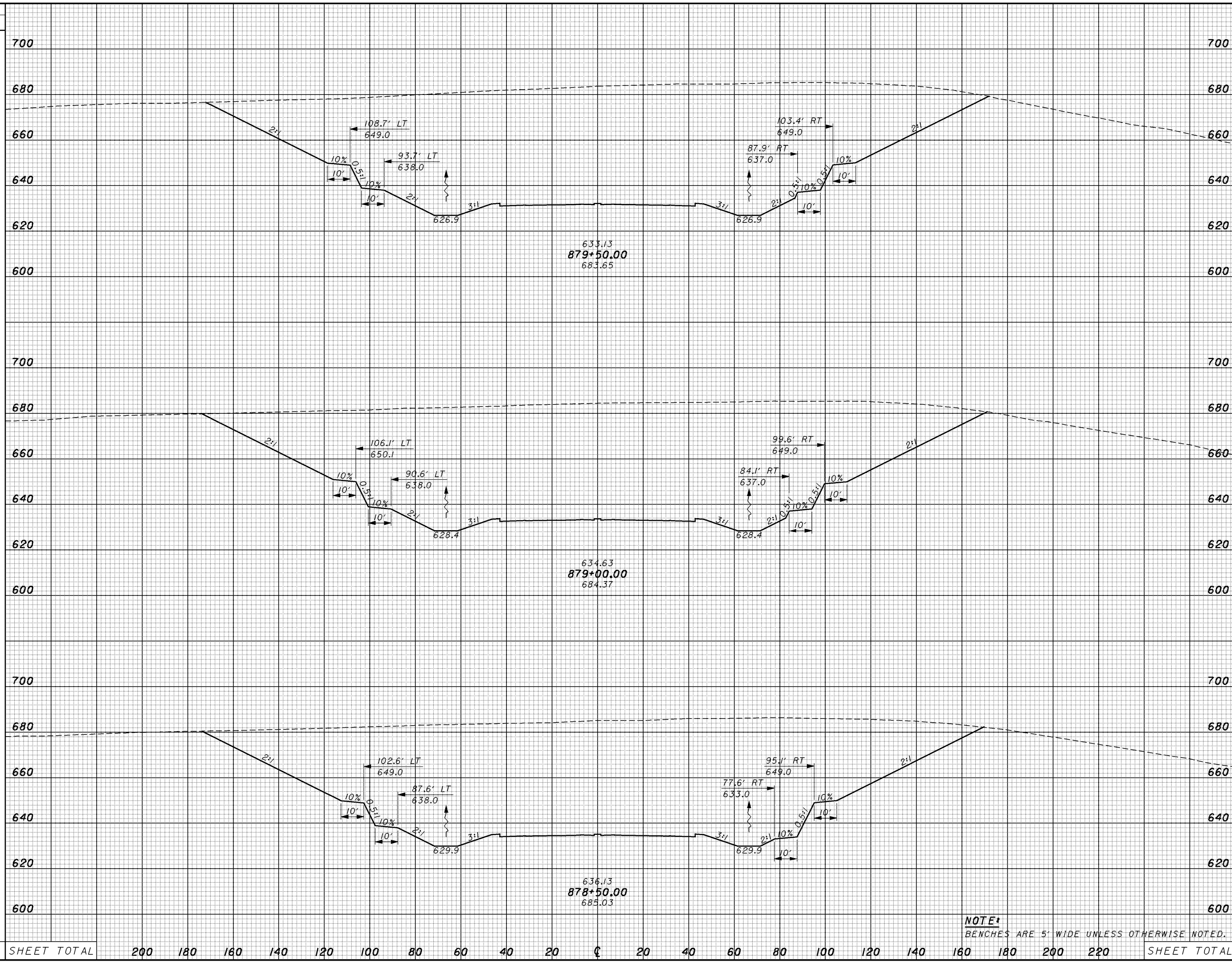
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
-------------	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-------------

NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

CROSS SECTIONS - SR 823
STA. 877+00.00 TO STA. 878+00.00

SCI-823-10.13

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 9:15 AM
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END	AREA		VOLUME		CALCULATED	CHECKED
	CUT	FILL	CUT	FILL		
					MME	ADW

CROSS SECTIONS - SR 823
STA. 878+50.00 TO STA. 879+50.00

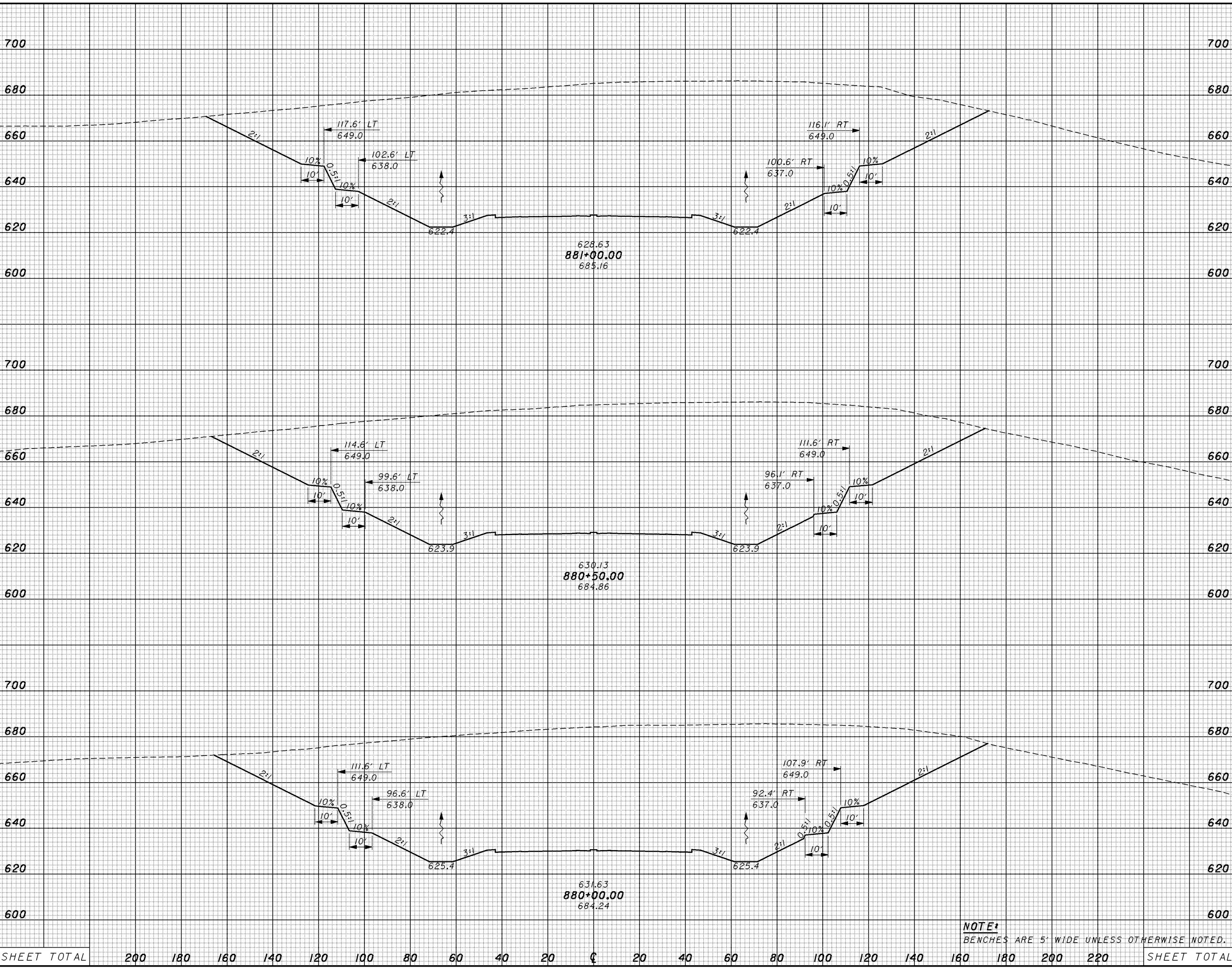
SCI-823-10.13

539

NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 CL 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

SEEDING
 END WIDTH SQ. YDS.
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 melben 19415xsl39_ch.dgn



END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		

**CROSS SECTIONS - SR 823
 STA. 880+00.00 TO STA. 881+00.00**

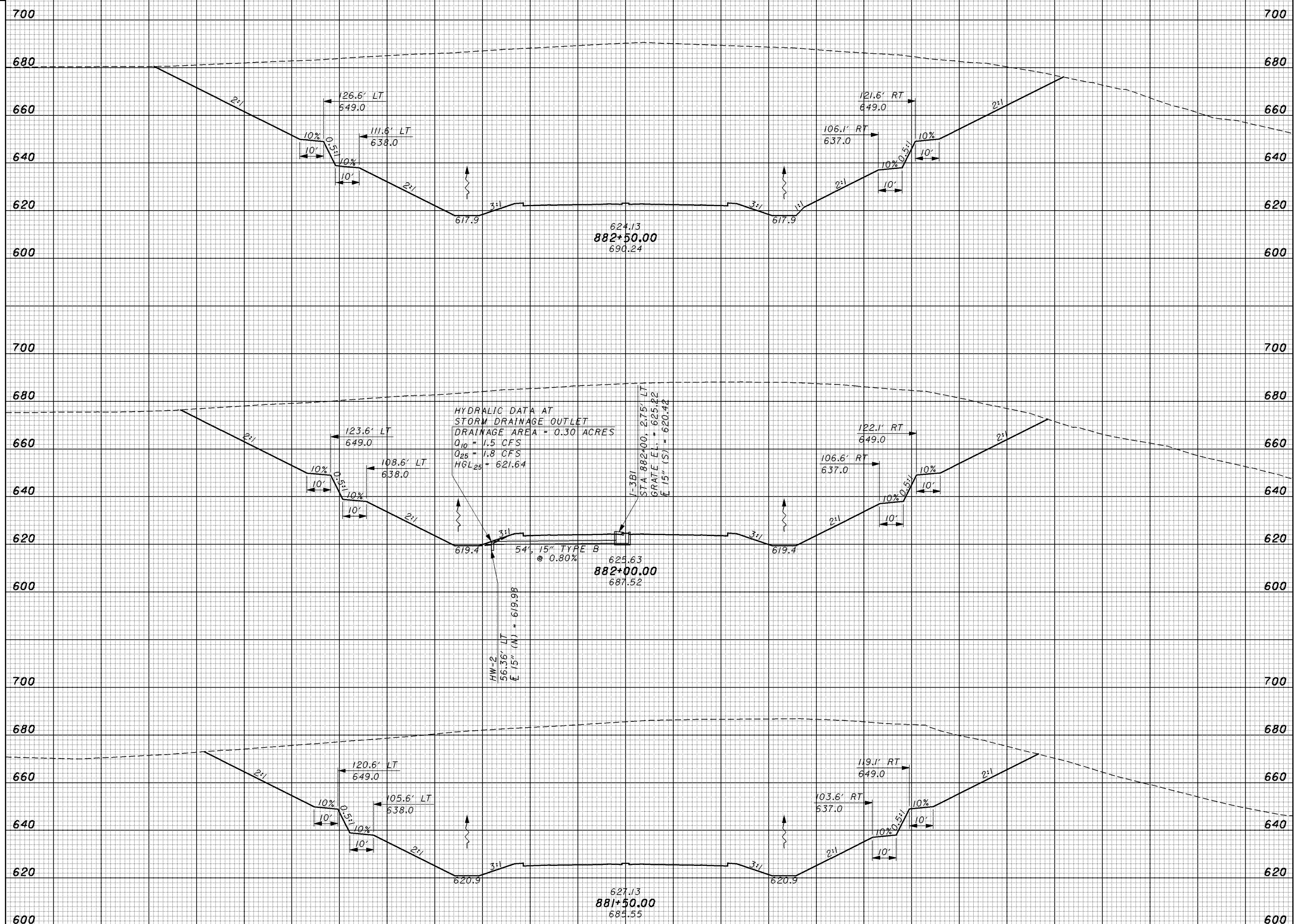
SCI-823-10.13

540

NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

11/23/2007 9:15 AM \\aries\PlanSets-400_sci823_half.pen
meiben 1945xsl40_ch.dgn

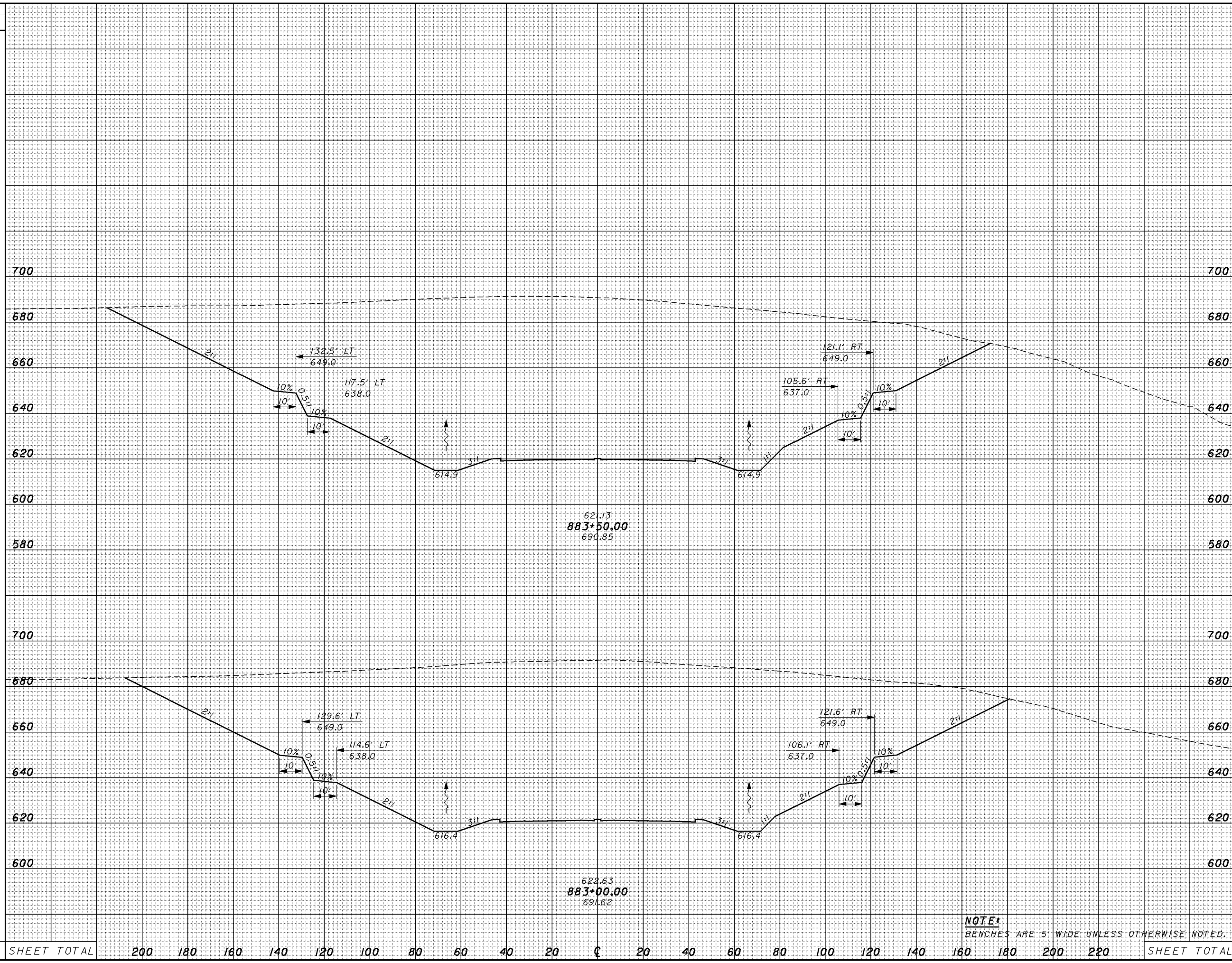
CROSS SECTIONS - SR 823
STA. 881+50.00 TO STA. 882+50.00

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

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meiben 19415xsl41_ch.dgn



NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - SR 823
STA. 883+00.00 TO STA. 883+50.00

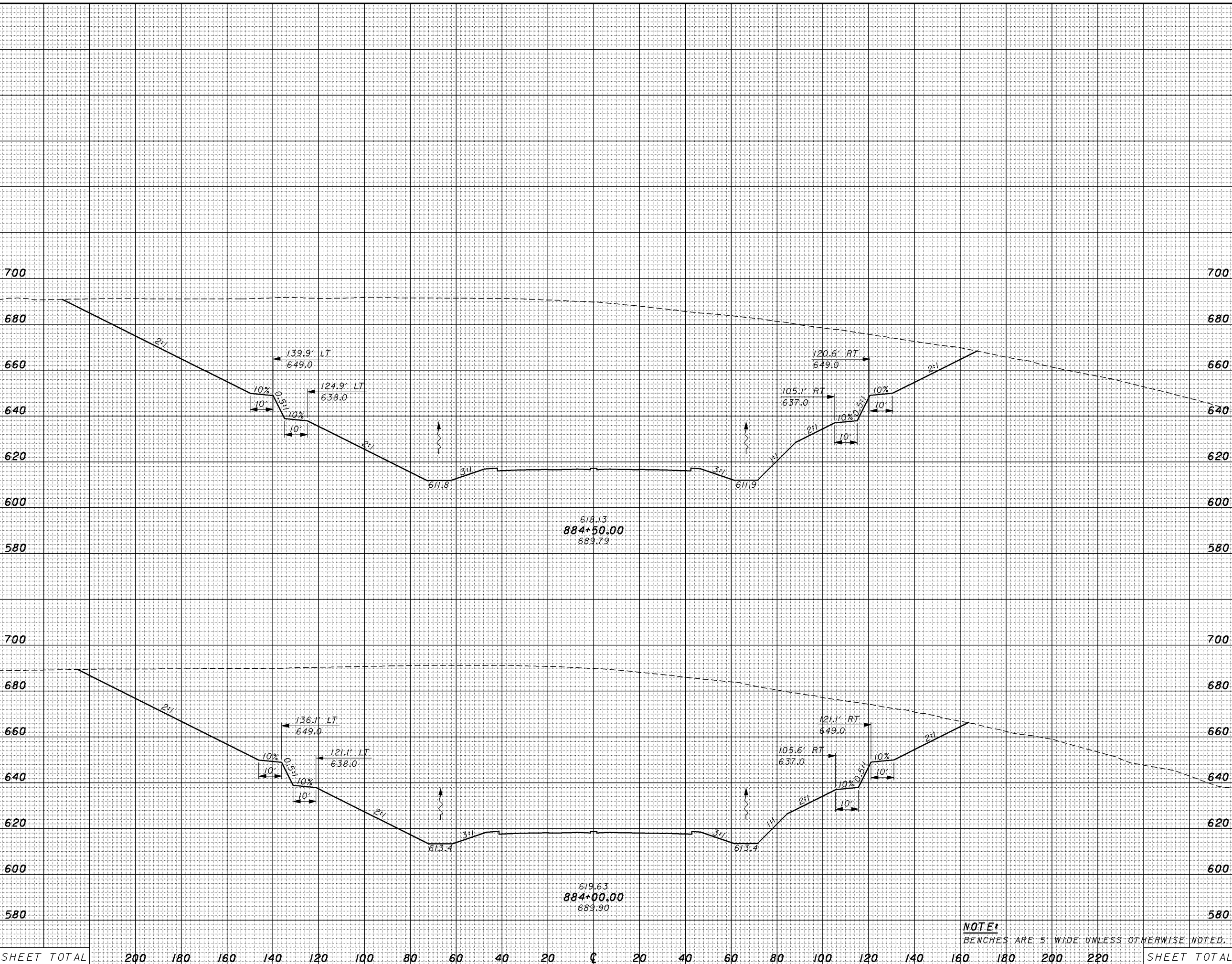
SCI-823-10.13

542

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

11/23/2007 9:16 AM
\\aries\plansets-400_sci823_half.pen
meiben 19415xsl42_ch.dgn



NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - SR 823
STA. 884+00.00 TO STA. 884+50.00

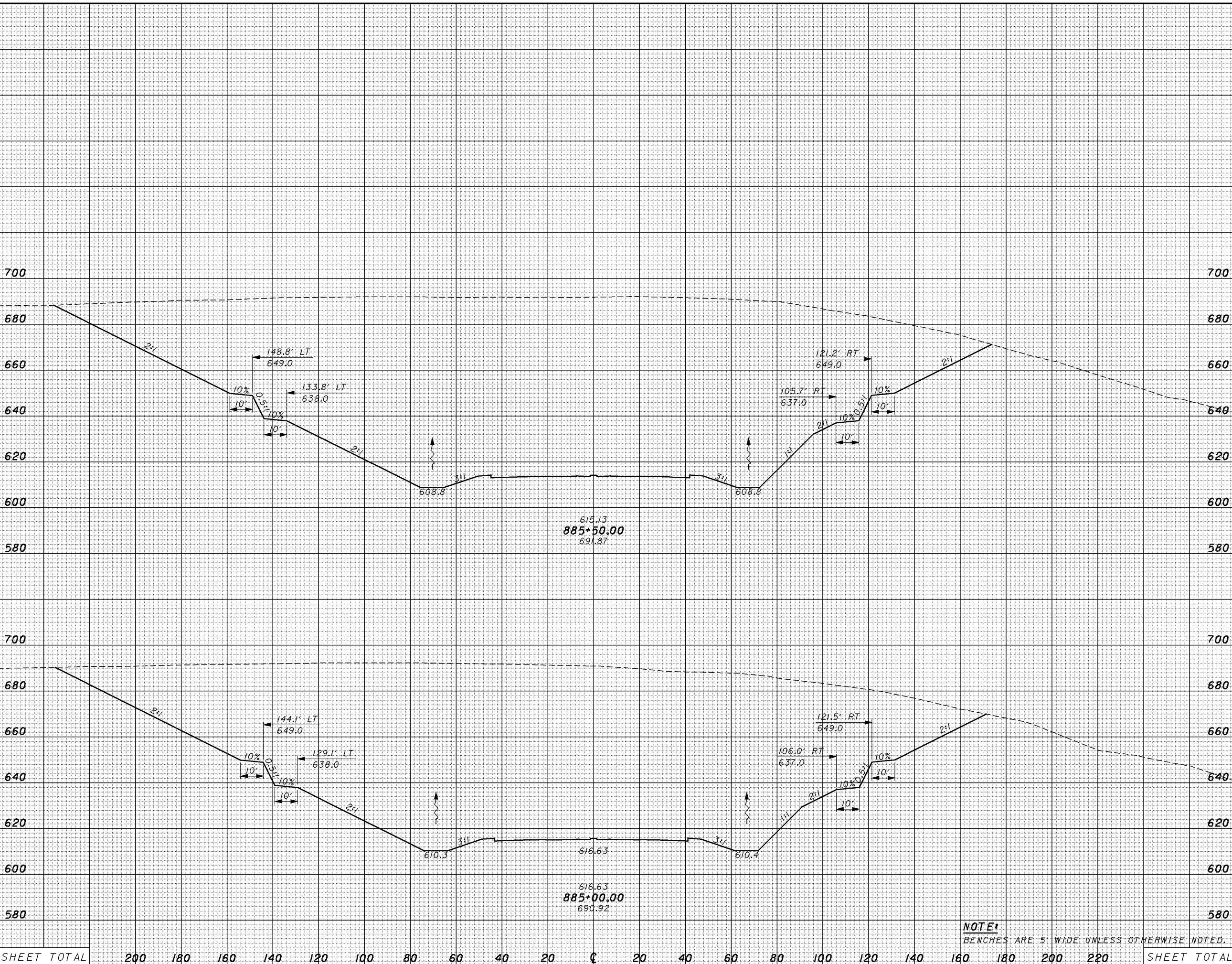
SCI-823-10.13

543

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

11/23/2007 9:16 AM
\\aries\plansets-400_sci823_half.pen
meiben 1945xsl43_ch.dgn



NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - SR 823
STA. 885+00.00 TO STA. 885+50.00

SCI-823-10.13

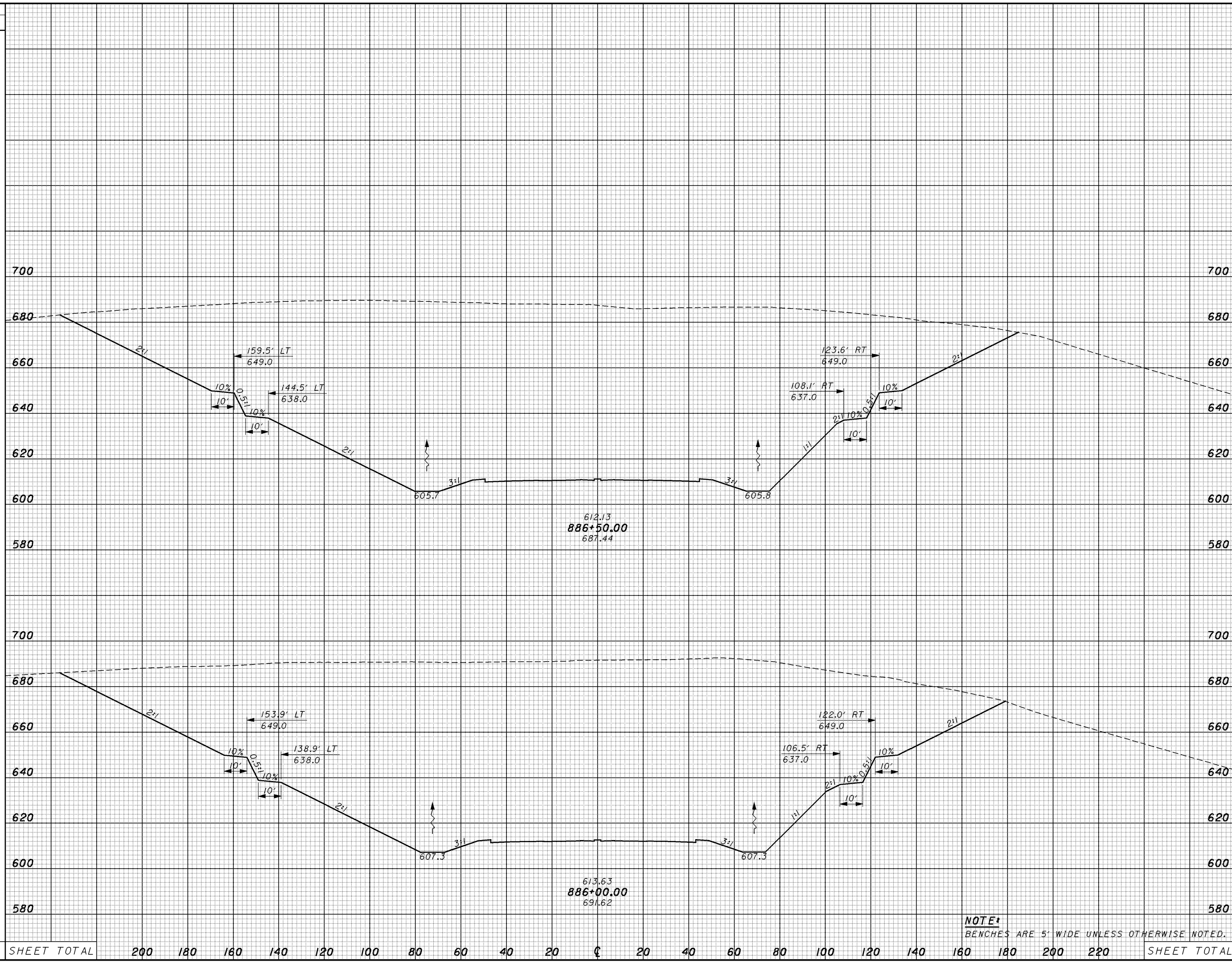
544

SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
MME
CHECKED
ADW

11/23/2007 9:16 AM
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meiben 1945xsl44_ch.dgn



NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SEEDING	END WIDTH	SQ. YDS.	SHEET TOTAL																						
			200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	

CROSS SECTIONS - SR 823
STA. 886+00.00 TO STA. 886+50.00

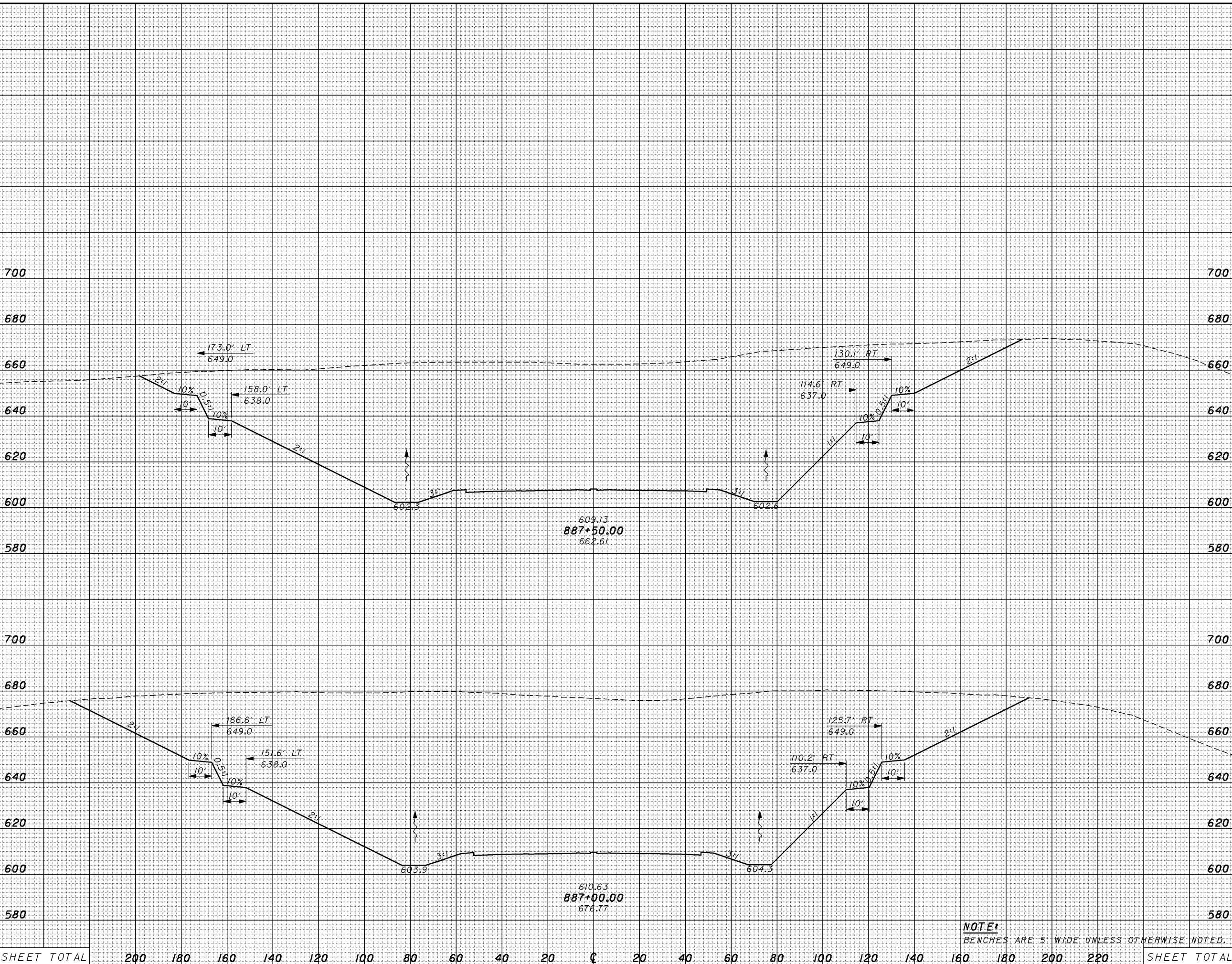
SCI-823-10.13

545

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

11/23/2007 9:16 AM
\\aries\plansets-400_sci823_half.pen
meiben 1945xsl45_ch.dgn



NOTE:
BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

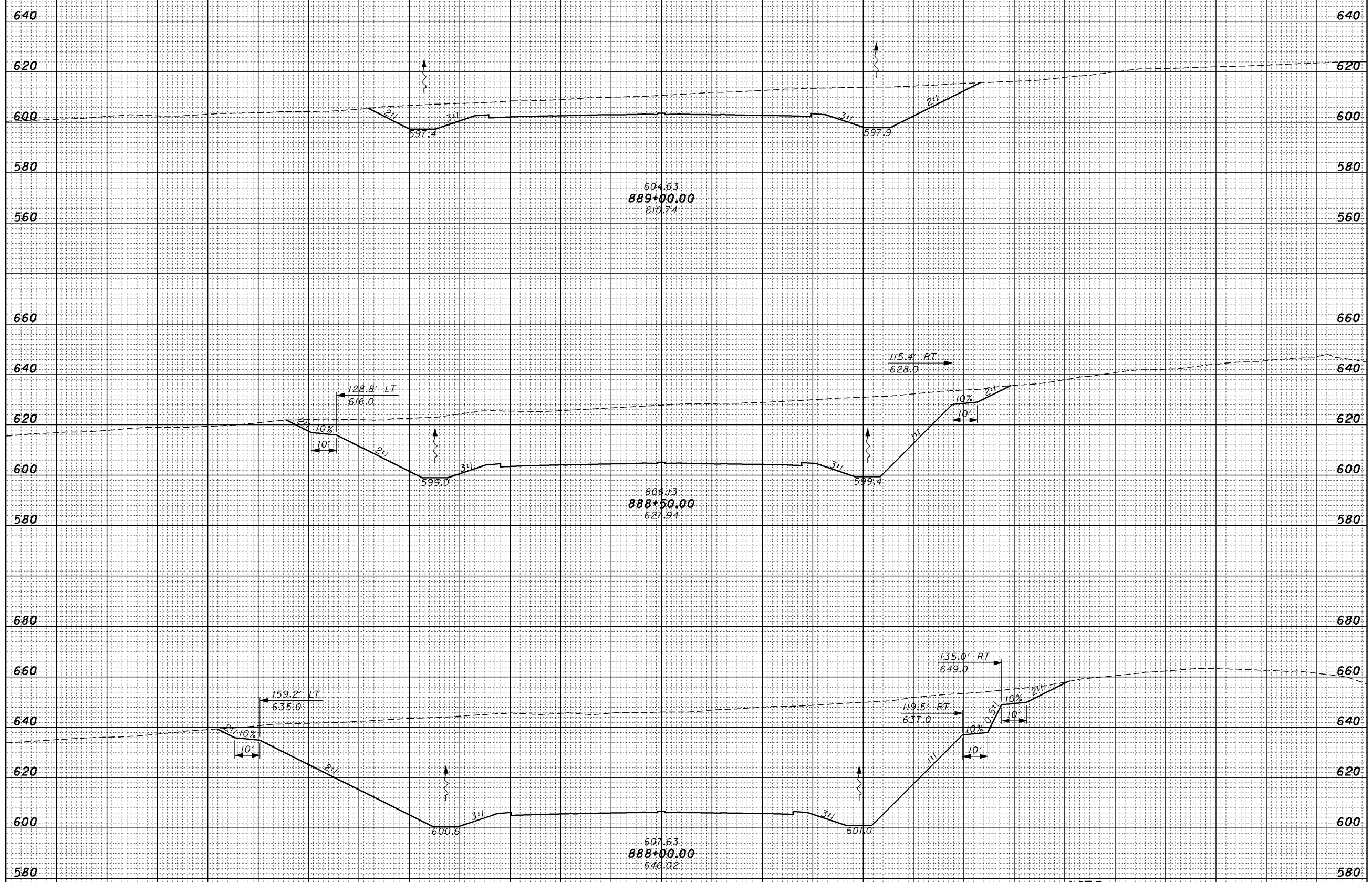
CROSS SECTIONS - SR 823
STA. 887+00.00 TO STA. 887+50.00

SCI-823-10.13

546

SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 9:17 AM
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 melben 1945xsl46_ch.dgn

END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		



NOTE:
 BENCHES ARE 5' WIDE UNLESS OTHERWISE NOTED.

SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

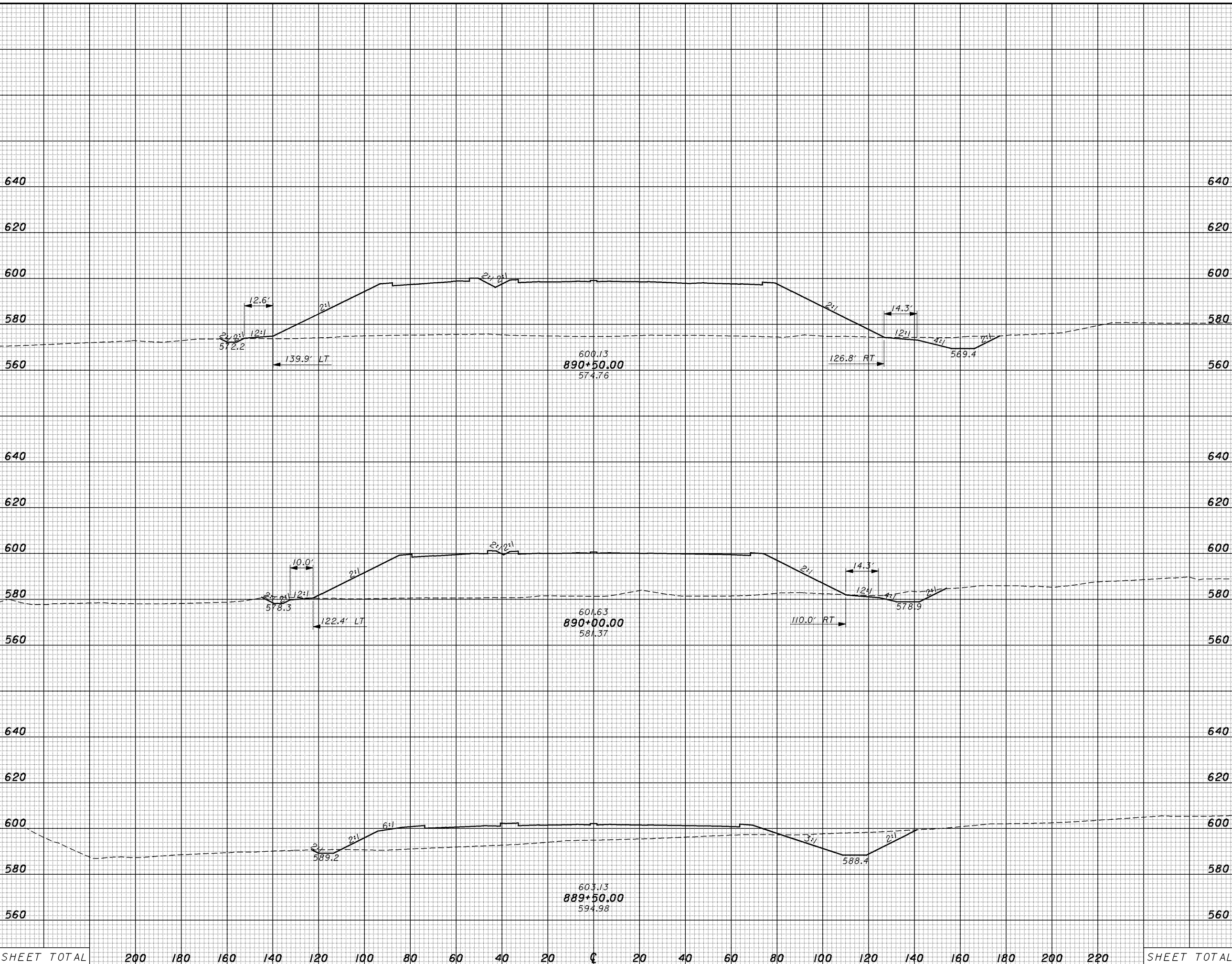
CROSS SECTIONS - SR 823
 STA. 888+00.00 TO STA. 889+00.00

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

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meiben 1945xsl47_ch.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - SR 823
STA. 889+50.00 TO STA. 890+50.00

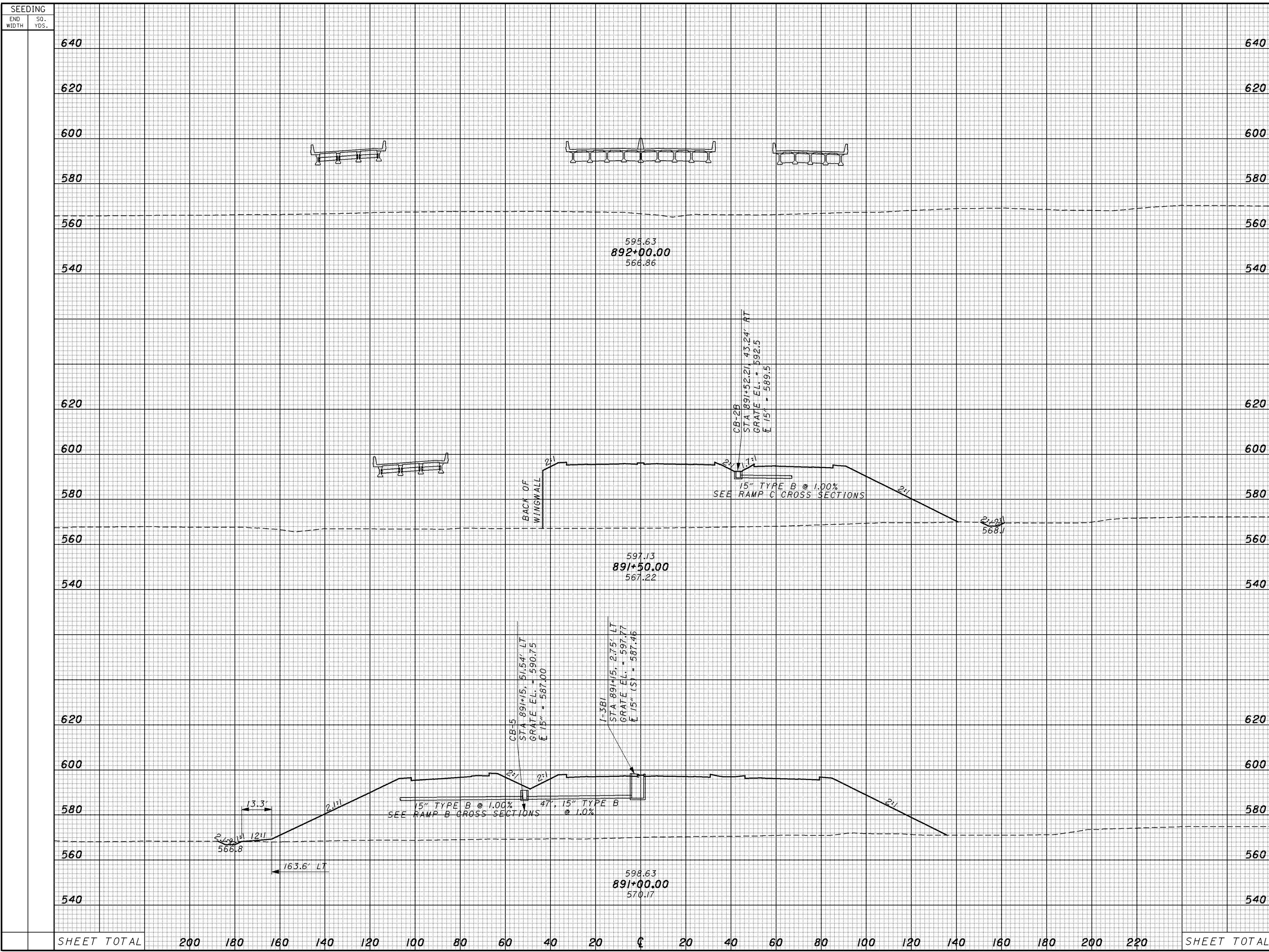
SCI-823-10.13

548

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11/23/2007
9:17 AM

meiben
19415xsl48_ch.dgn



SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL
640					
620					
600					
580					
560					
540					
620					
600					
580					
560					
540					
SHEET TOTAL					

CROSS SECTIONS - SR 823
STA. 891+00.00 TO STA. 892+00.00

SCI-823-10.13

549

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11/23/2007 9:18 AM

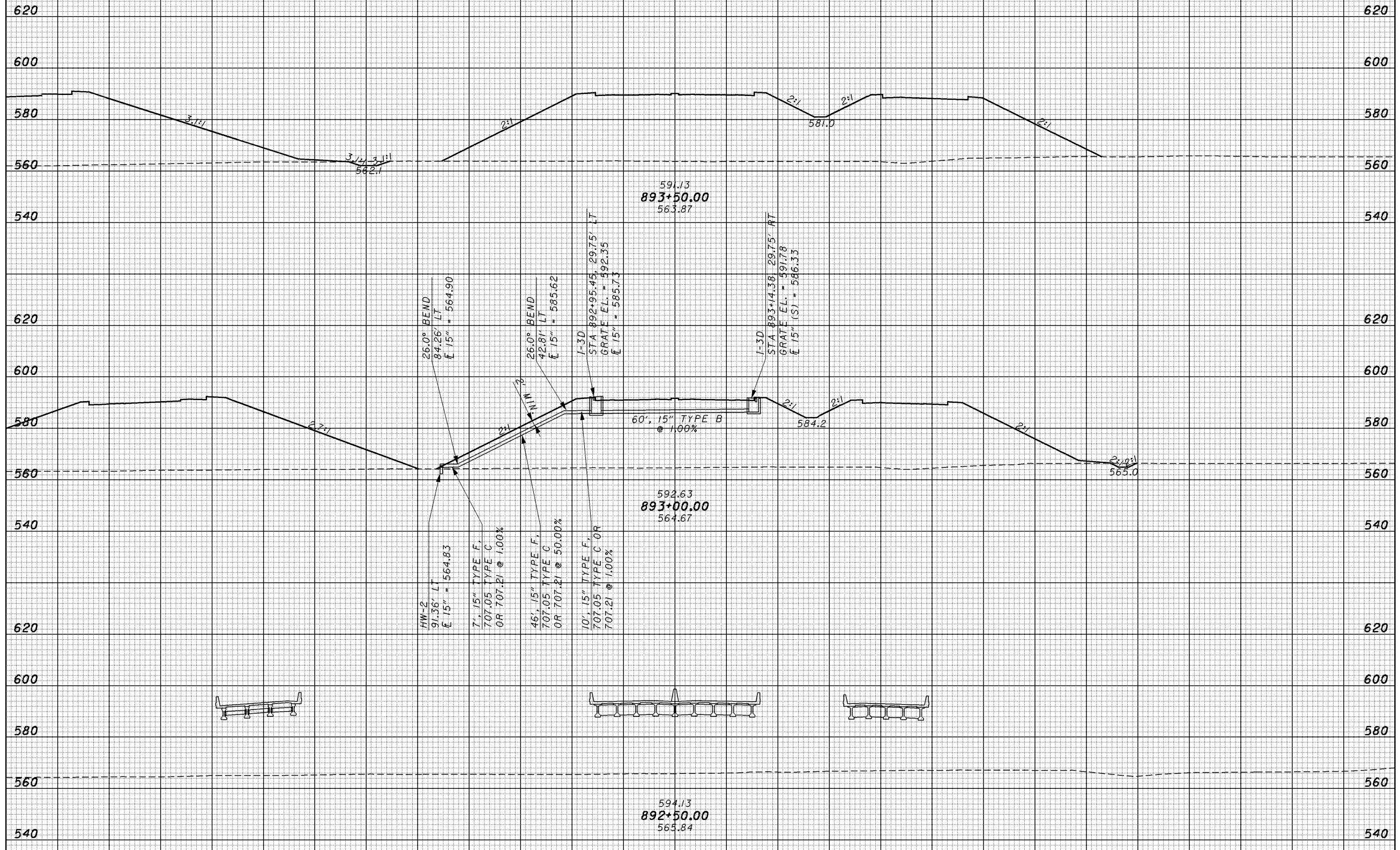
meiben 19415xsi49_ch.dgn

SEEDING

END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	MME
CHECKED	ADW



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS - SR 823
STA. 892+50.00 TO STA. 893+50.00

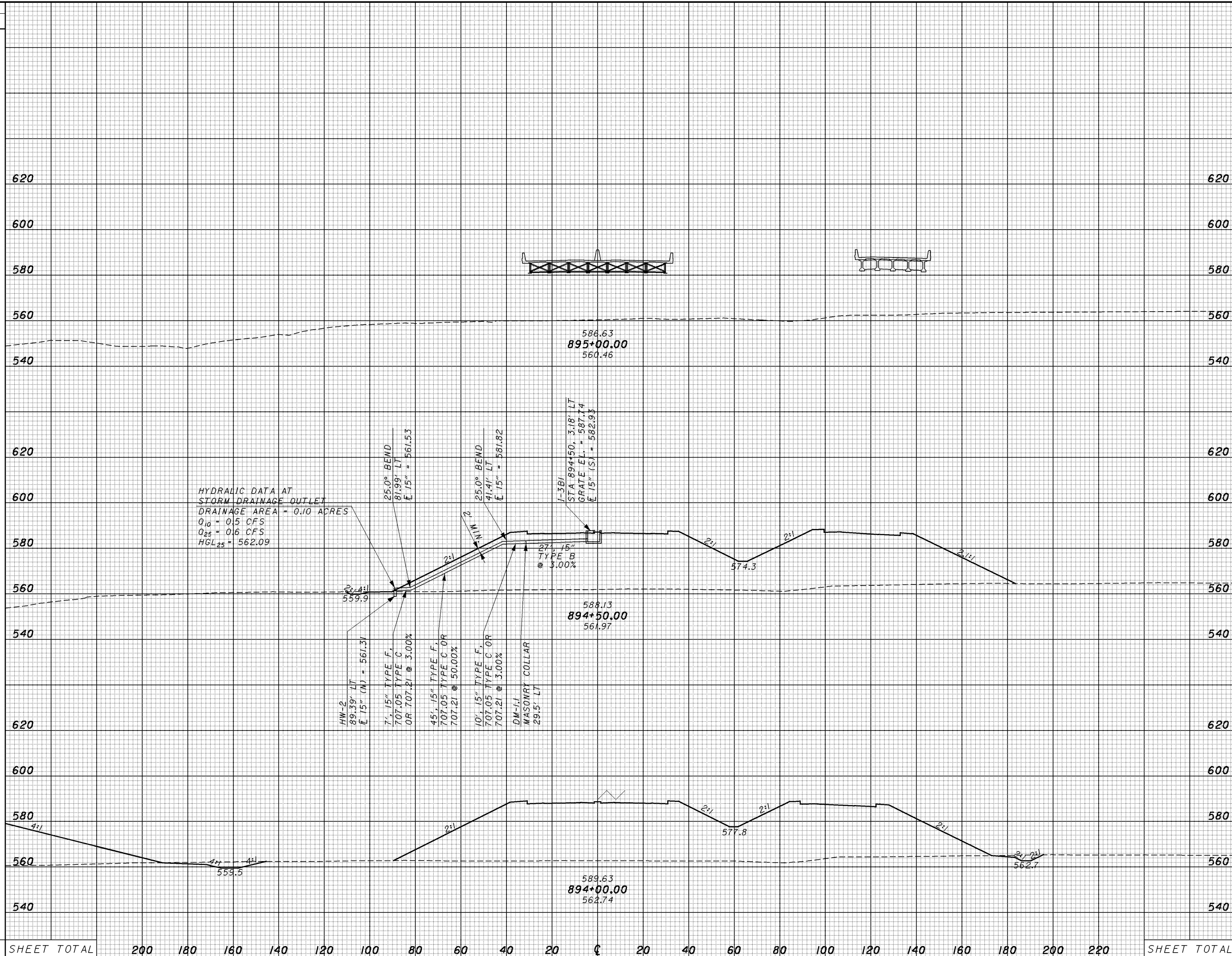
SCI-823-10.13

550

SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MME	ADW

11/23/2007 9:18 AM
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meiben 1945xsl50_ch.dgn

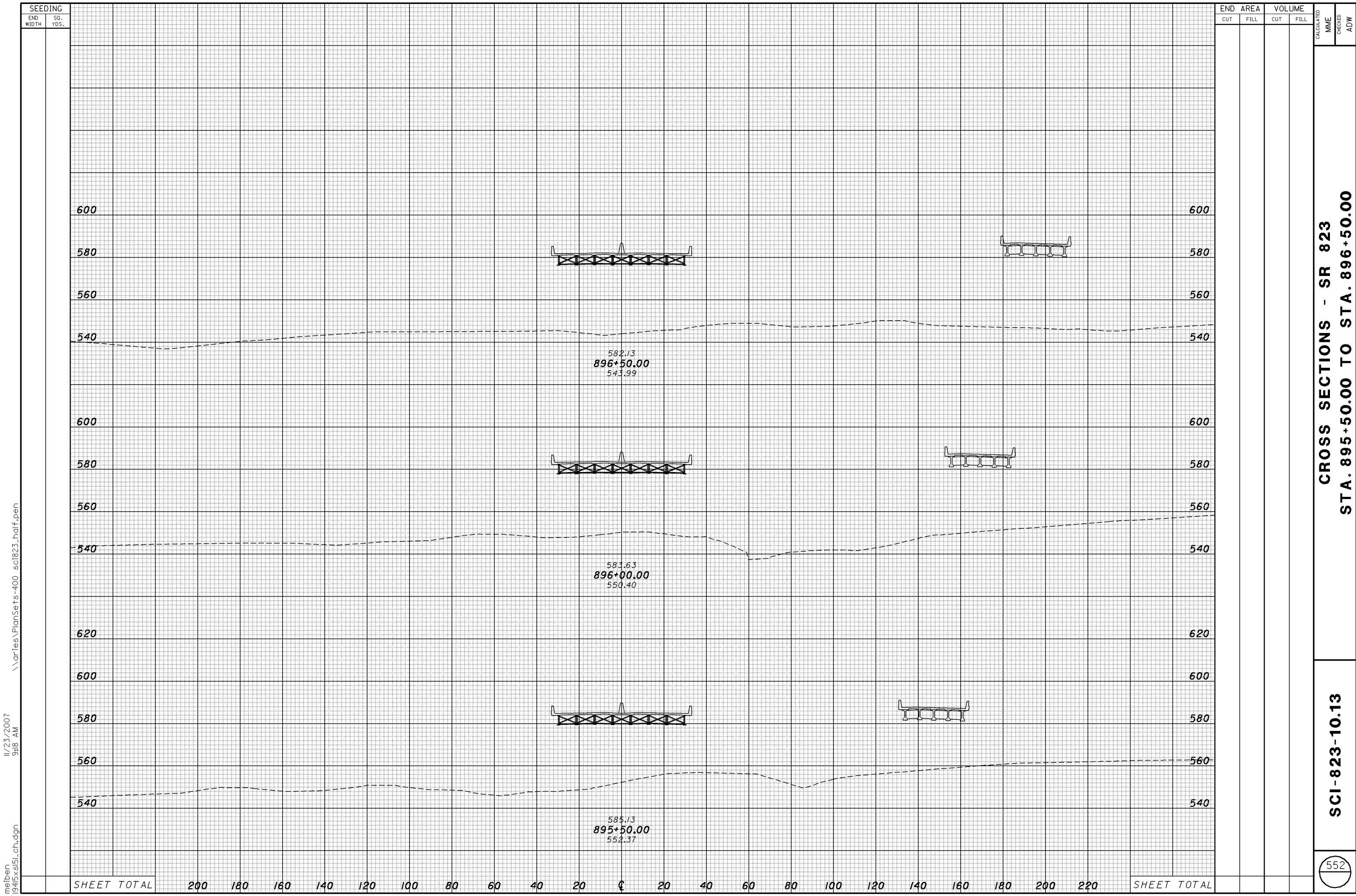


STATION	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
CUT																							
FILL																							

CROSS SECTIONS - SR 823
STA. 894+00.00 TO STA. 895+00.00

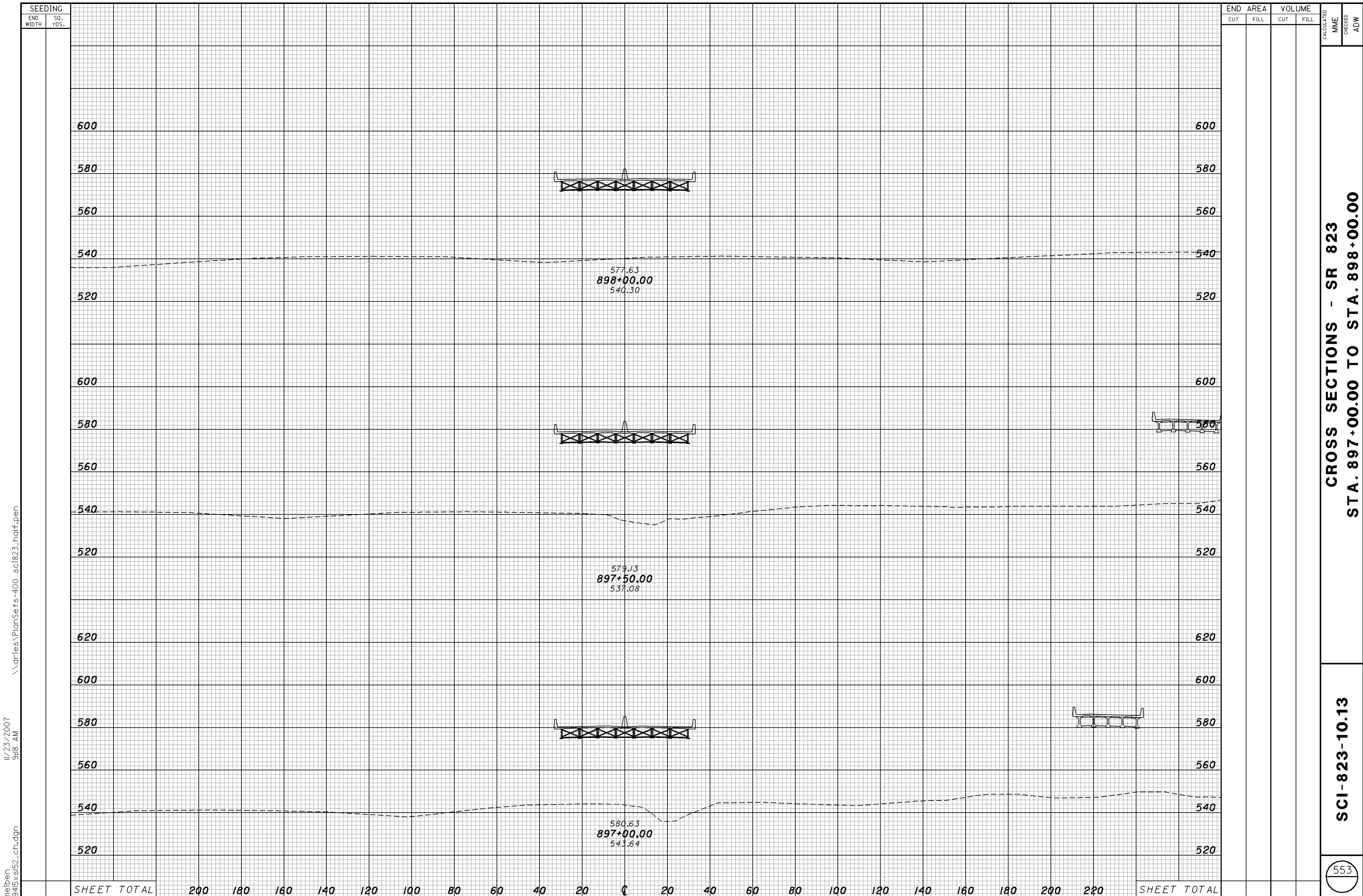
SCI-823-10.13

551



CROSS SECTIONS - SR 823
STA. 895+50.00 TO STA. 896+50.00

SCI-823-10.13



meiben 1945xsl52_ch.dgn 11/23/2007 9:18 AM \\aries\PlanSets-400_sci823_half.pen

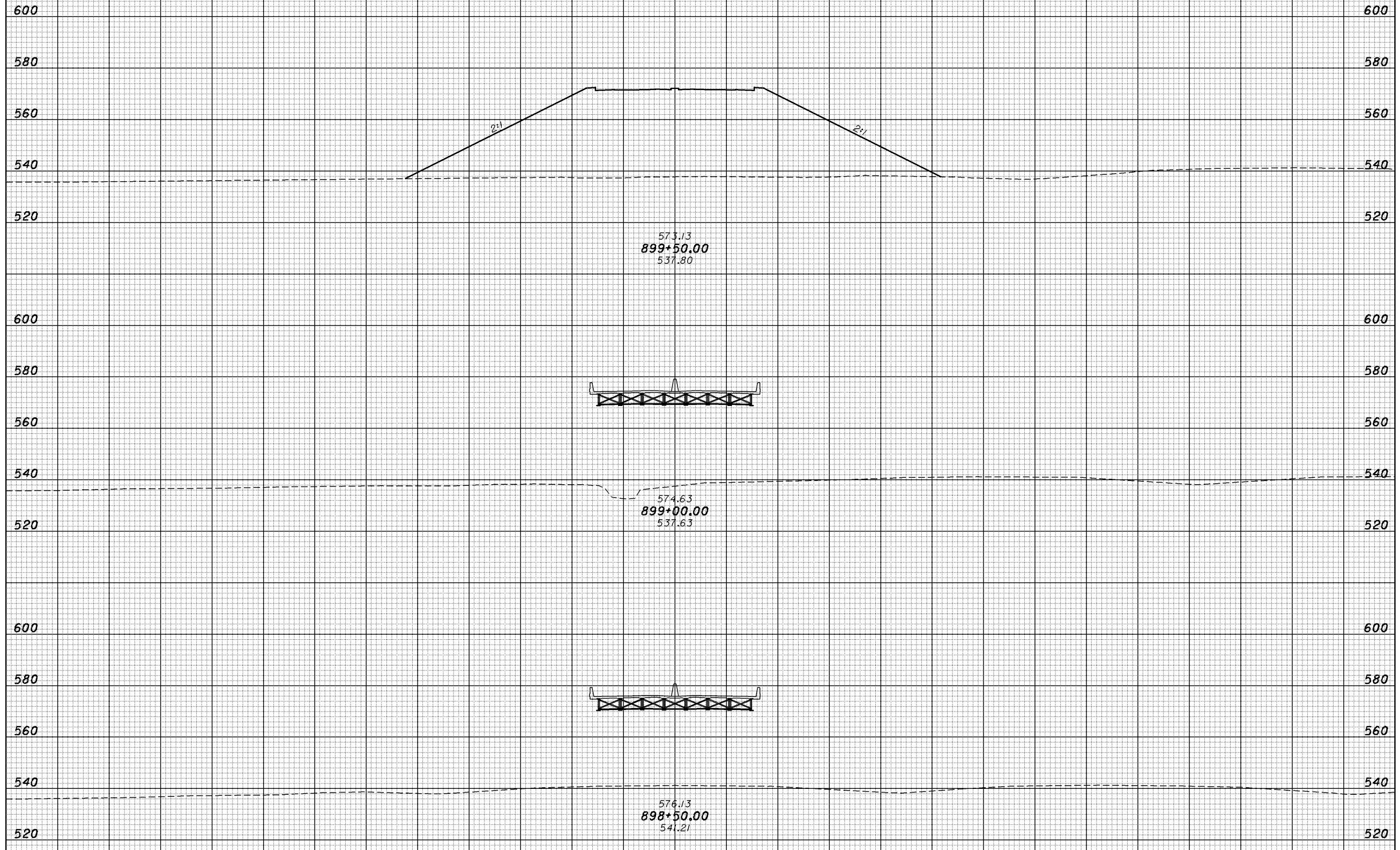
CROSS SECTIONS - SR 823
STA. 897+00.00 TO STA. 898+00.00

SCIENCE

553

SEEDING
 END WIDTH SQ. YDS.
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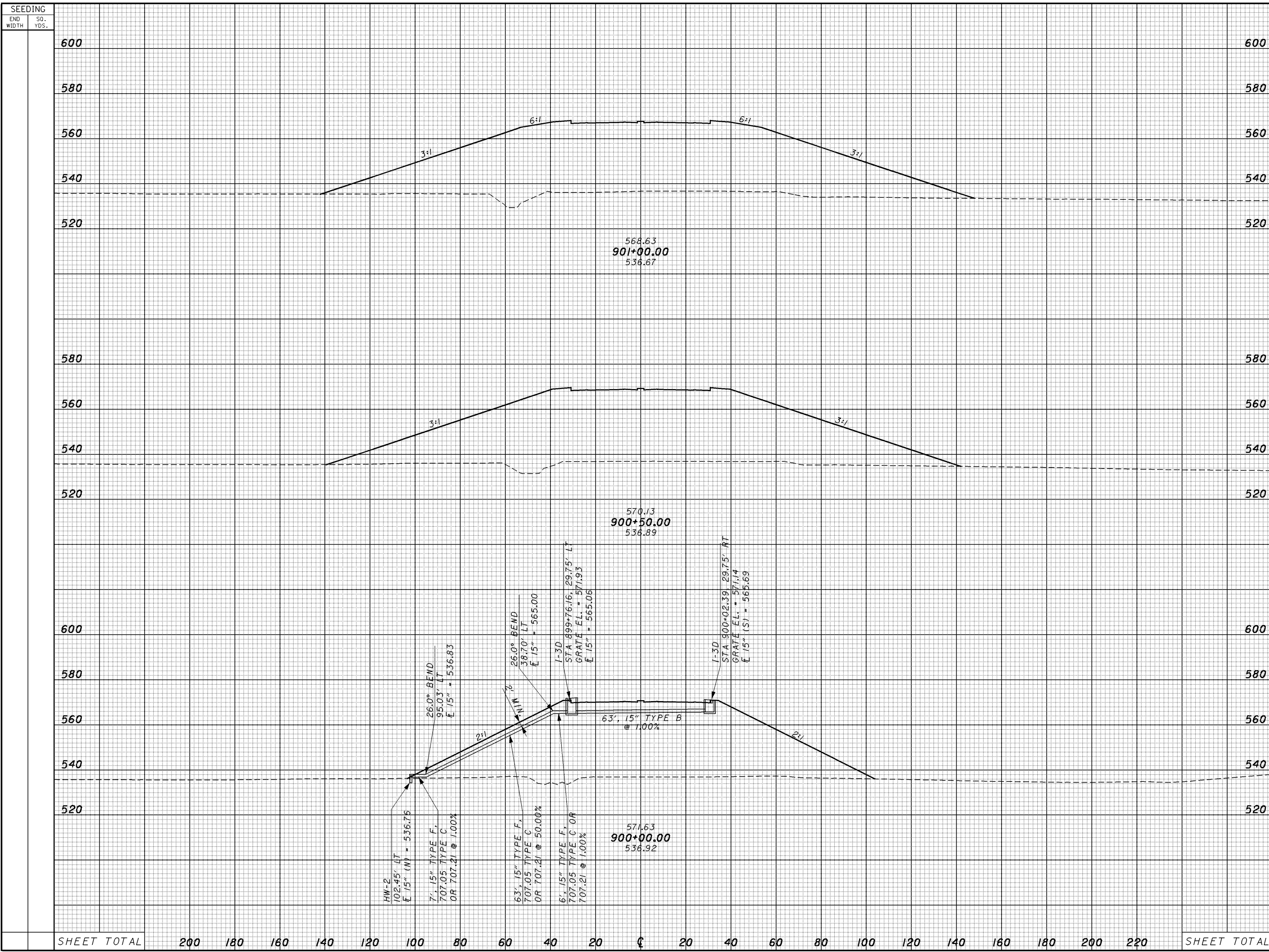
END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MME	ADW

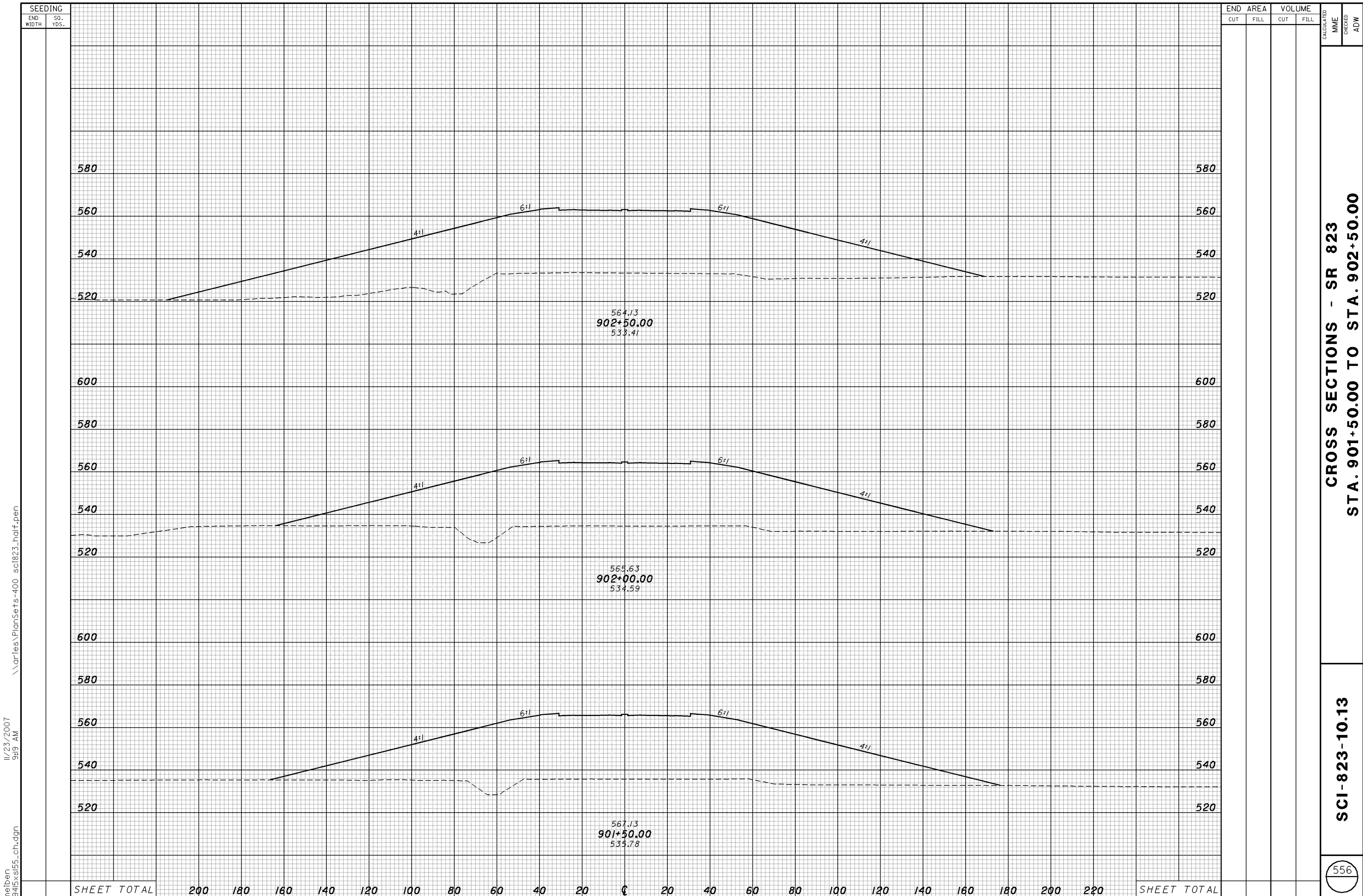


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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**CROSS SECTIONS - SR 823
 STA. 898+50.00 TO STA. 899+50.00**

SCI-823-10.13





SEEDING

END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MME
CHECKED
ADW

CROSS SECTIONS - SR 823
STA. 901+50.00 TO STA. 902+50.00

SCI-823-10.13

556

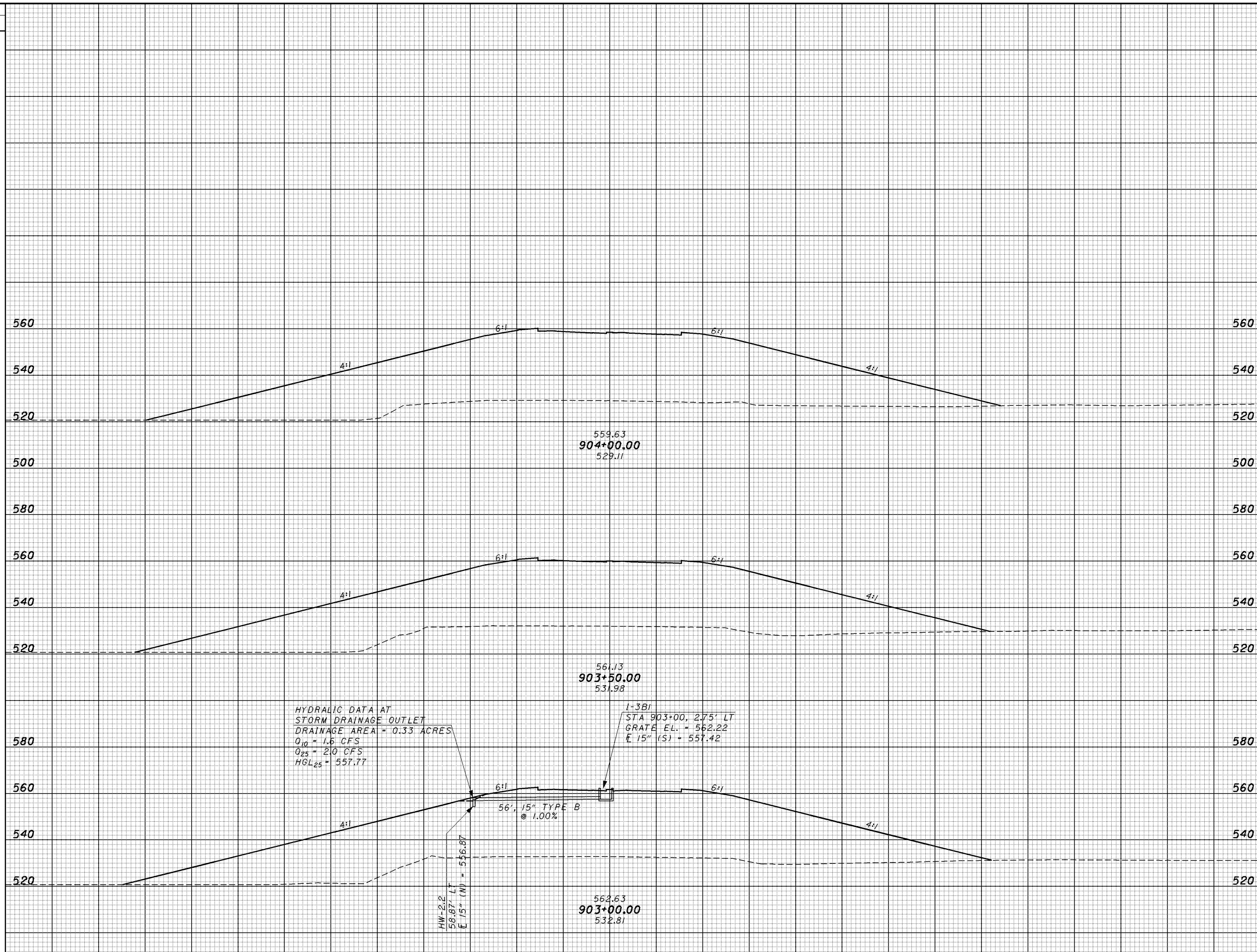
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SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

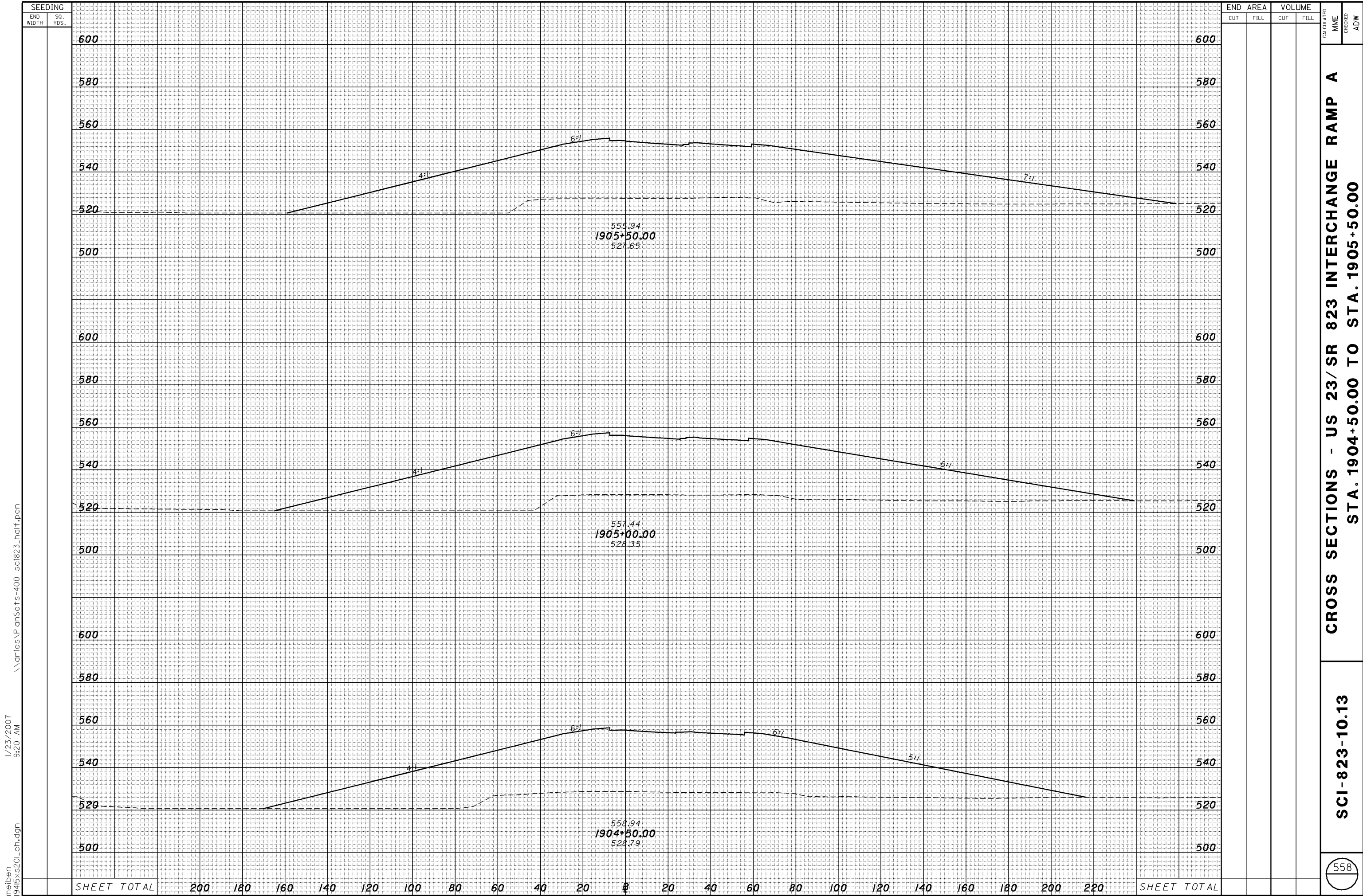
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SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - SR 823
STA. 903+00.00 TO STA. 904+00.00

SCI-823-10.13



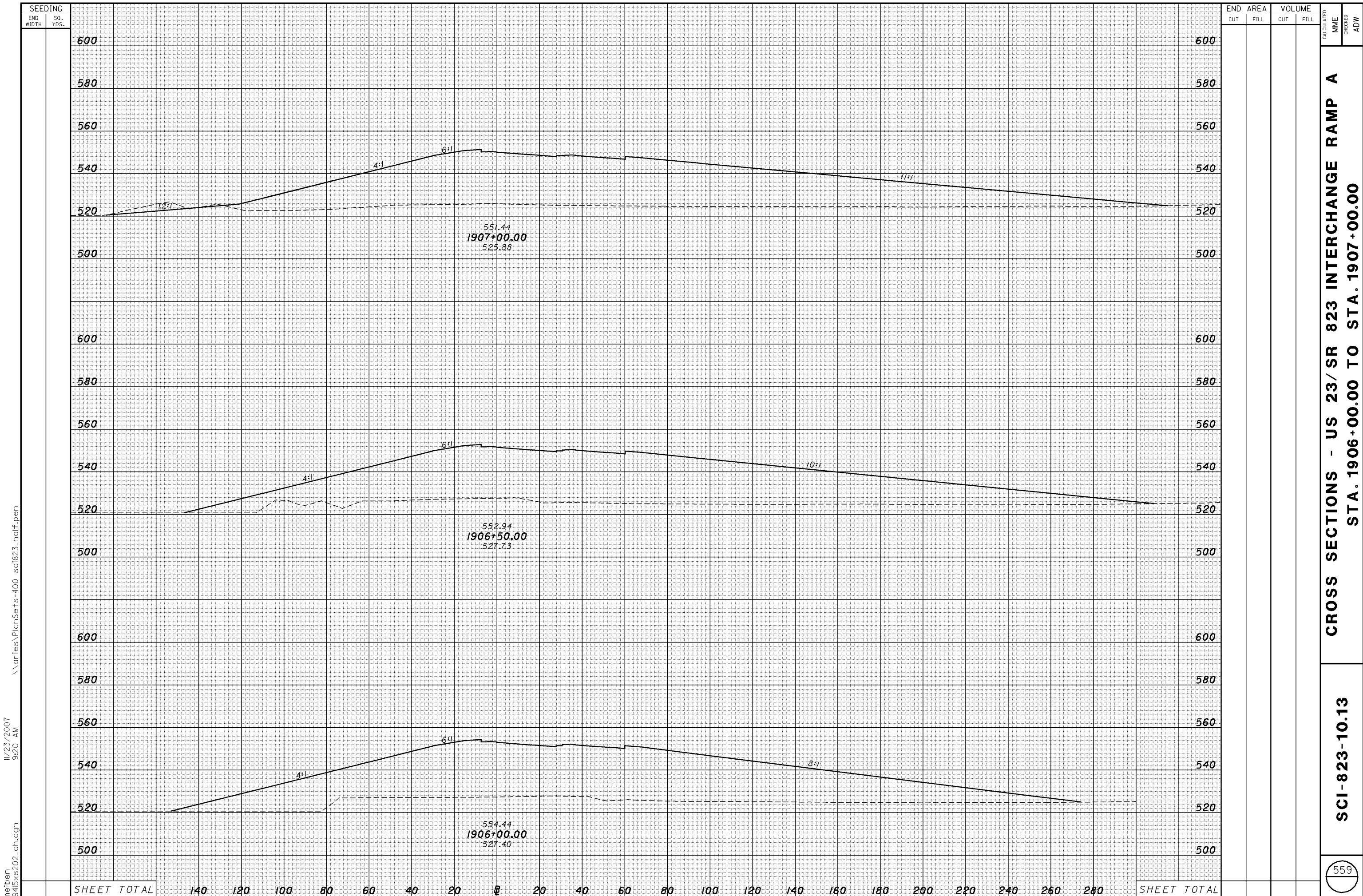
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END	AREA	VOLUME	
CUT	FILL	CUT	FILL

CALCULATED MME
 CHECKED ADW

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP A
STA. 1904+50.00 TO STA. 1905+50.00

SCI-823-10.13



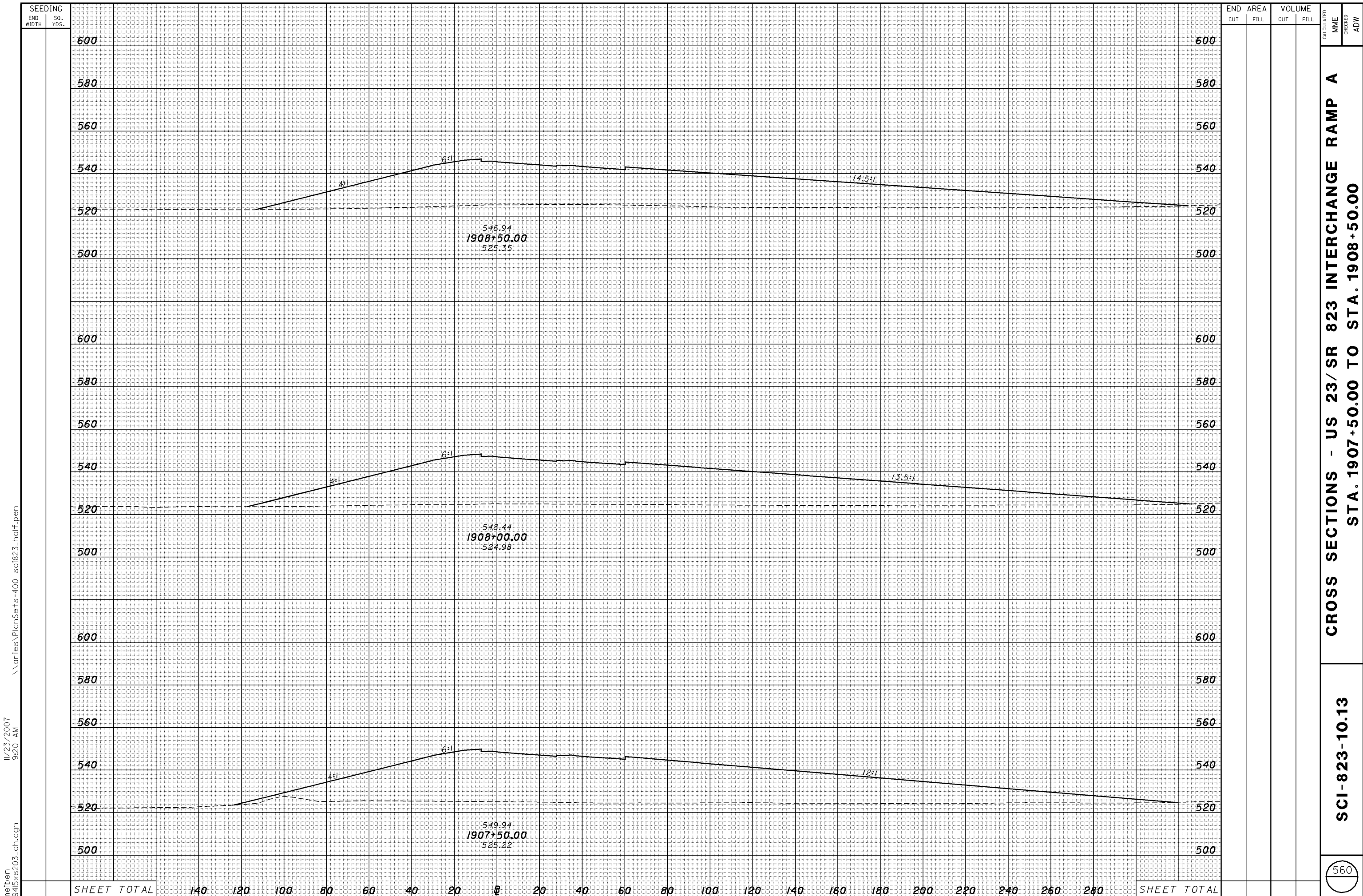
SEEDING
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SHEET TOTAL 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 SHEET TOTAL

END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		

CROSS SECTIONS - US 23/ SR 823 INTERCHANGE RAMP A
STA. 1906+00.00 TO STA. 1907+00.00

SCI-823-10.13

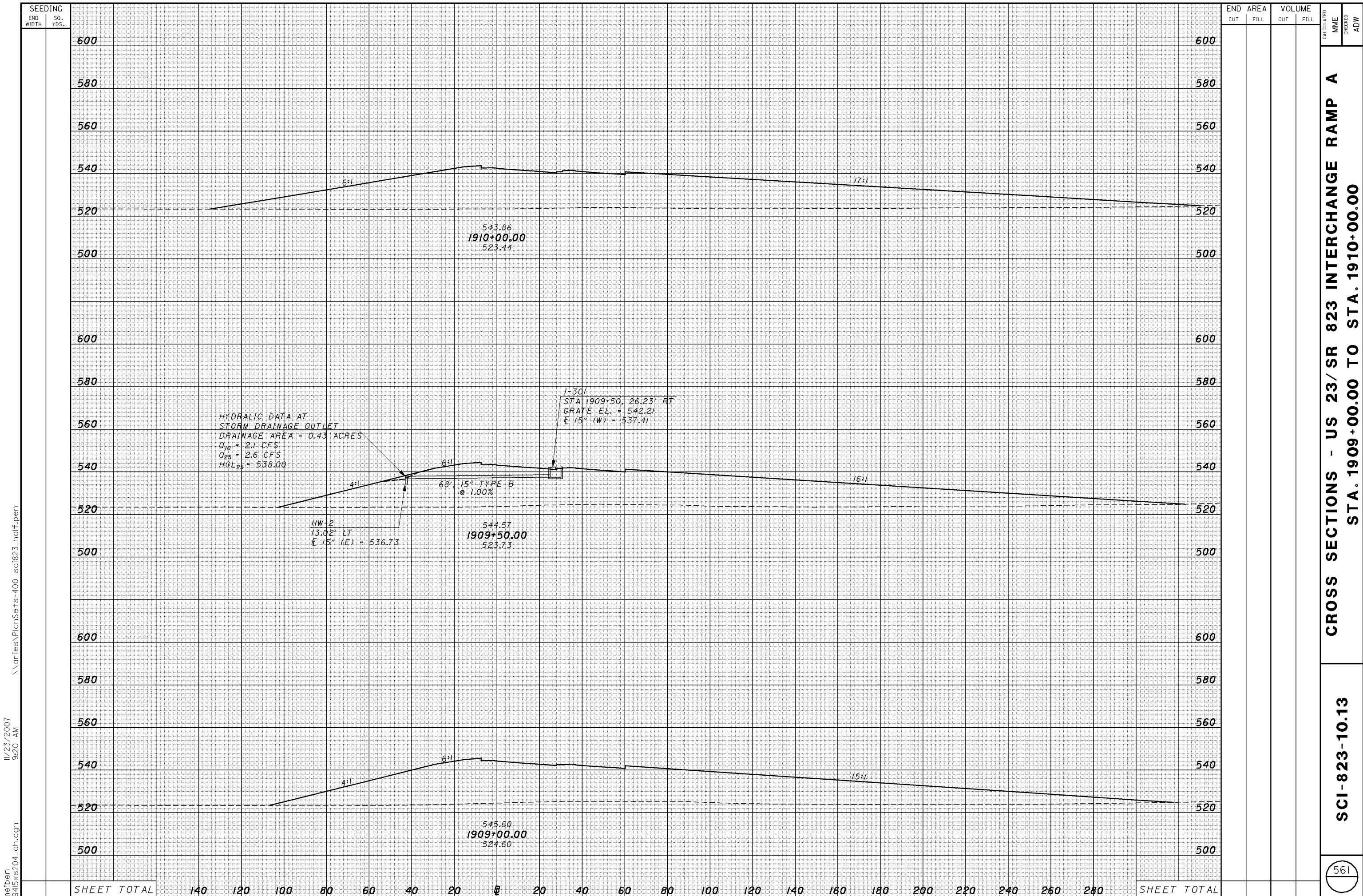


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CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP A
STA. 1907+50.00 TO STA. 1908+50.00

SCI-823-10.13

SHEET TOTAL 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 SHEET TOTAL



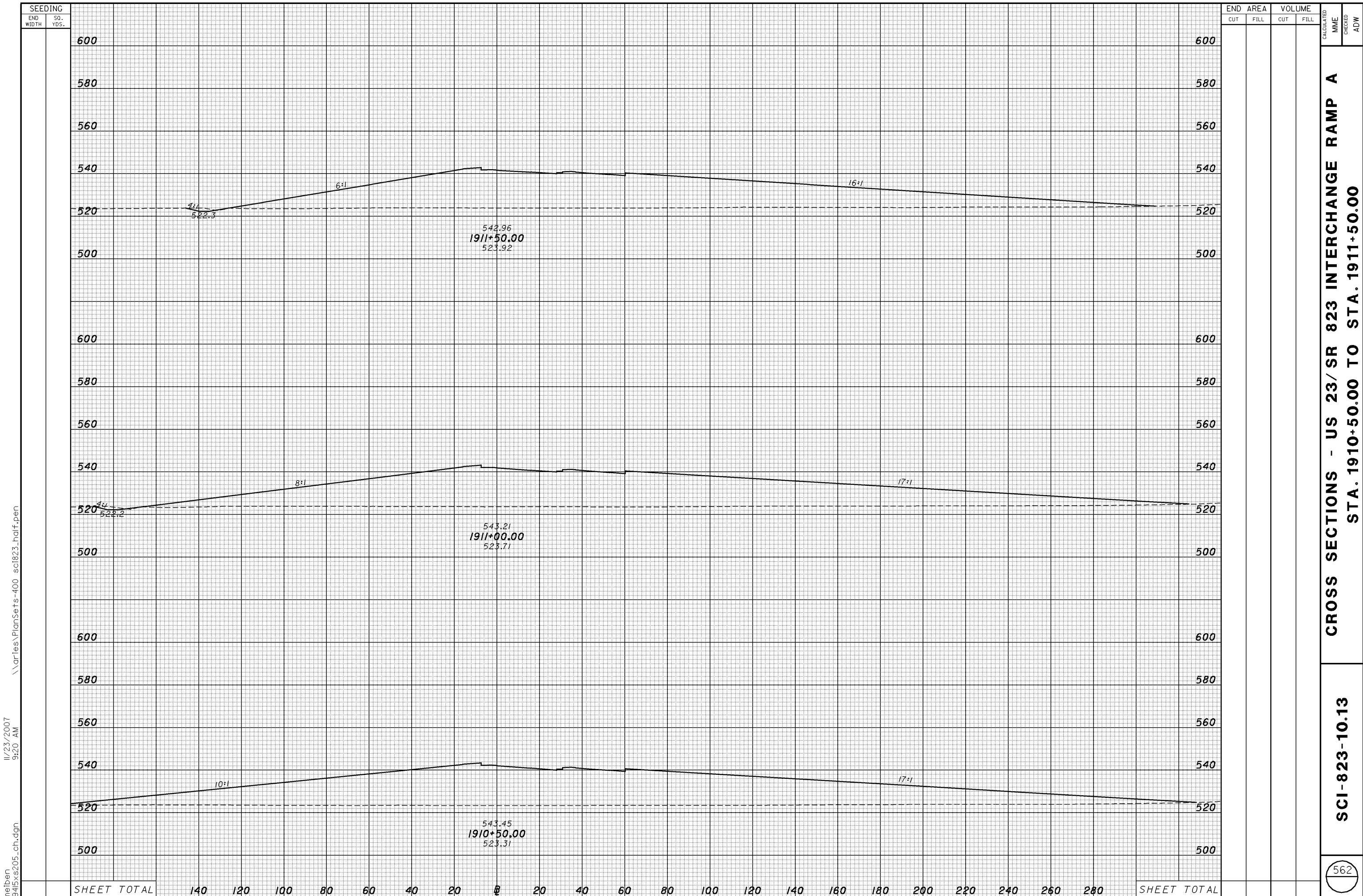
SEEDING		END AREA		VOLUME																				
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL																			
	600																							
	580																							
	560																							
	540																							
	520																							
	500																							
	600																							
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	500																							
	600																							
	580																							
	560																							
	540																							
	520																							
	500																							
SHEET TOTAL		140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	SHEET TOTAL

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP A
STA. 1909+00.00 TO STA. 1910+00.00

SCI-823-10.13

CALCULATED MME
 CHECKED ADW

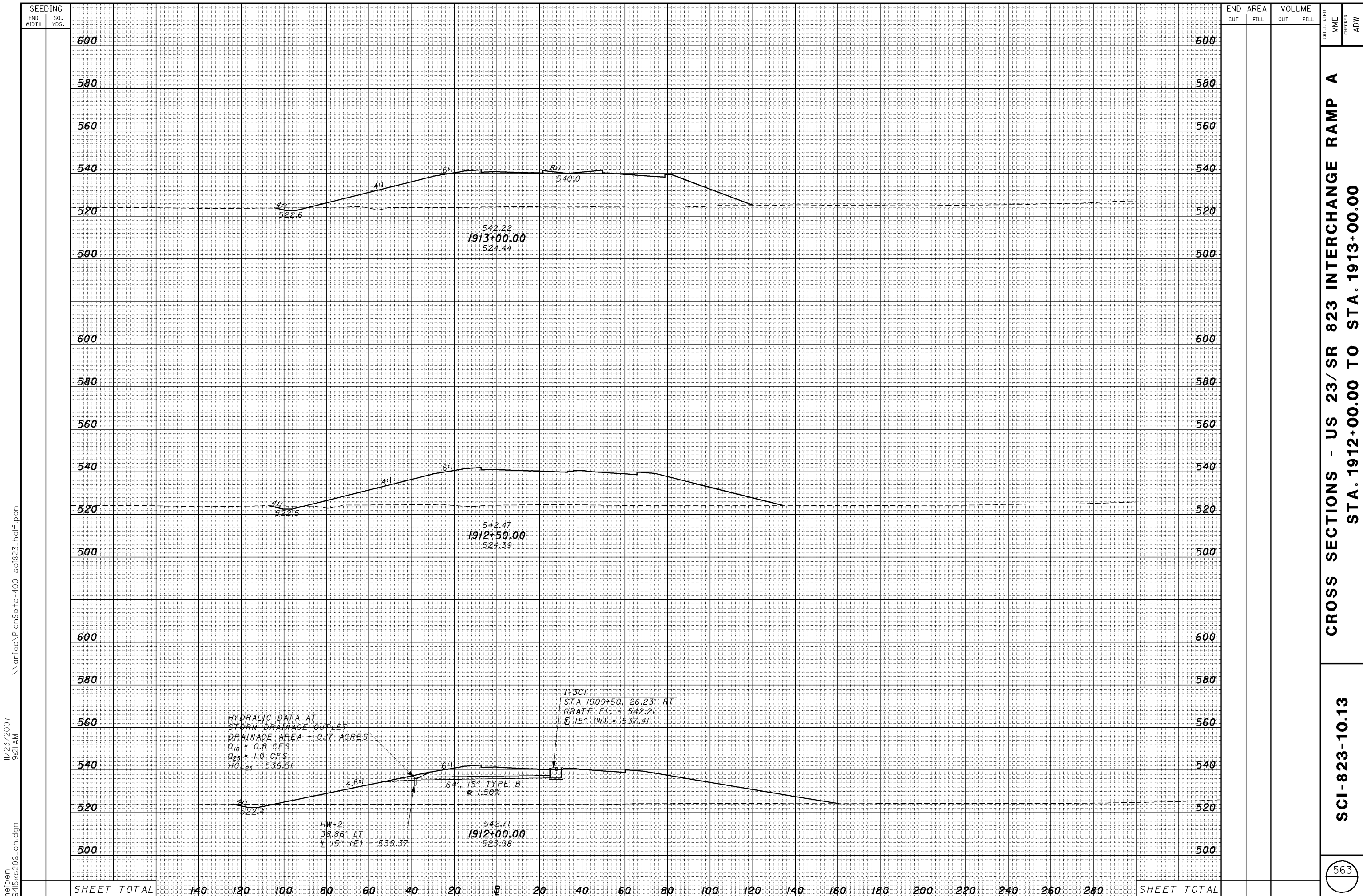
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meiben
19415xs205_ch.dgn
11/23/2007
9:20 AM
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CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP A
STA. 1910+50.00 TO STA. 1911+50.00

SCI-823-10.13



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HYDRALIC DATA AT
STORM DRAINAGE OUTLET
DRAINAGE AREA = 0.17 ACRES
Q₁₀ = 0.8 CFS
Q₂₅ = 1.0 CFS
HGL₂₅ = 536.51

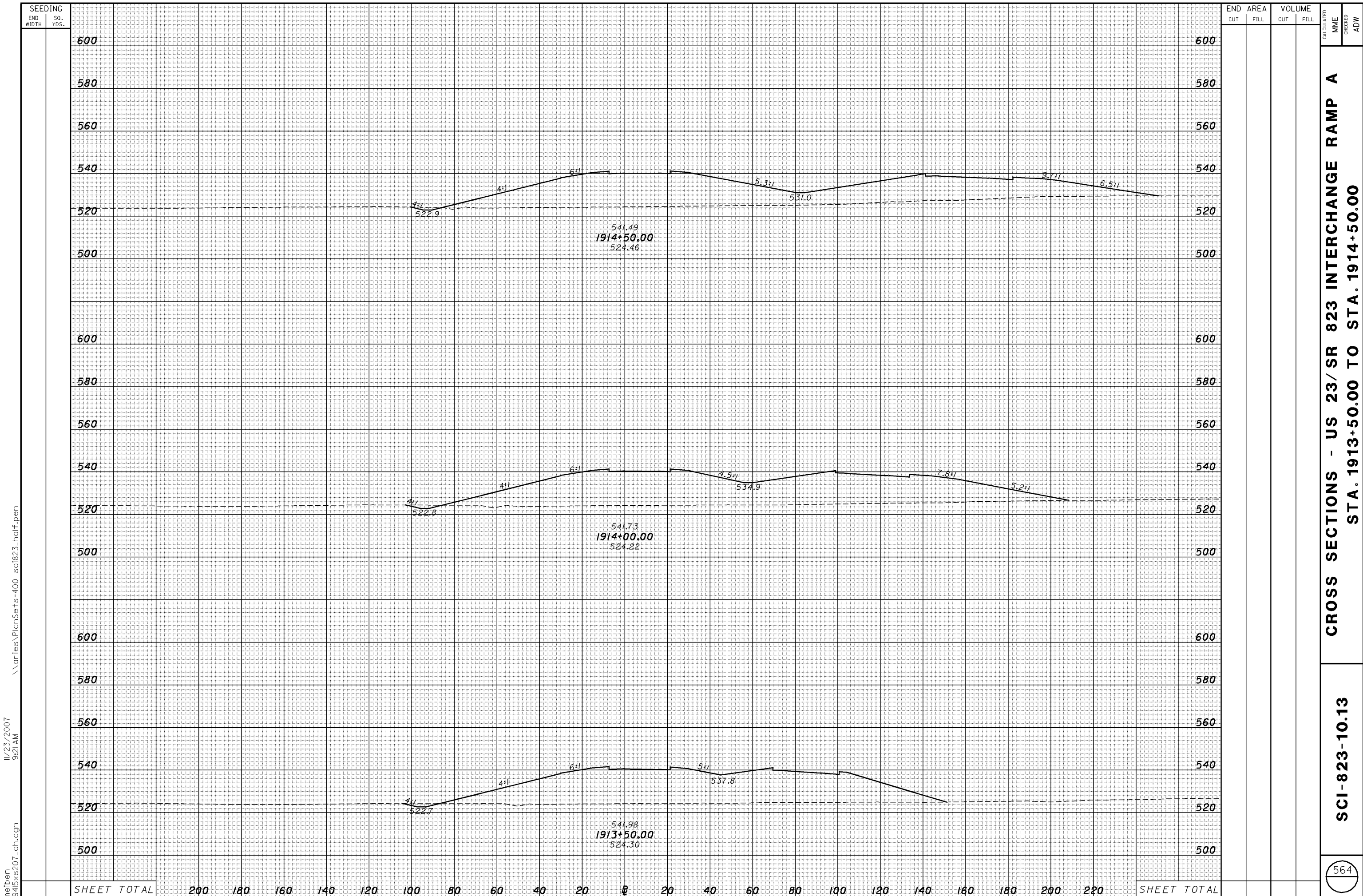
HW-2
38.86' LT
E 15" (E) = 535.37

T-301
STA 1909+50, 26.23' RT
GRATE EL. = 542.21
E 15" (W) = 537.41

64", 15" TYPE B
@ 1.50%

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP A
STA. 1912+00.00 TO STA. 1913+00.00

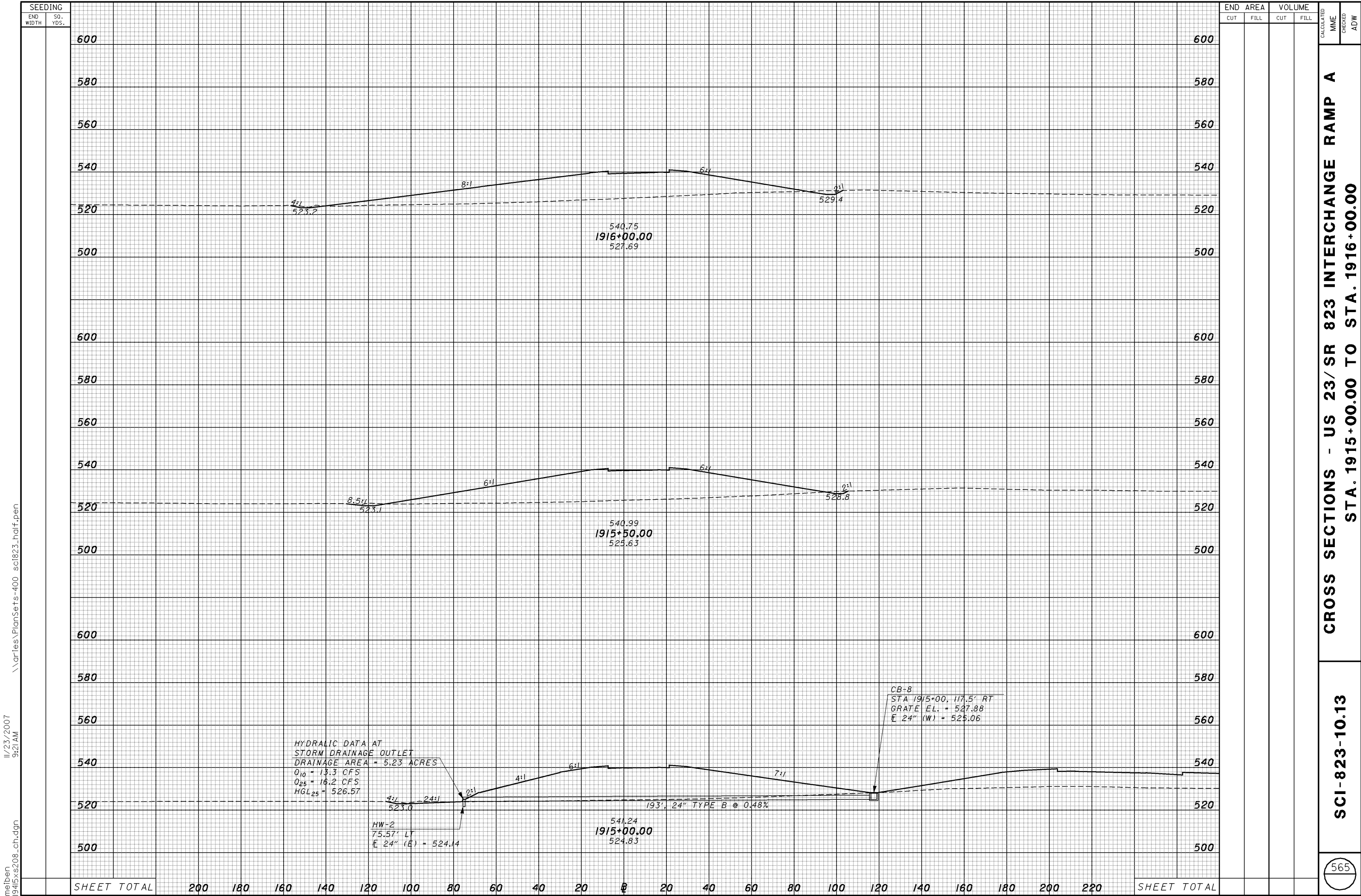
SCI-823-10.13



SEEDING
 END WIDTH SQ. YDS.
 600
580
560
540
520
500
600
580
560
540
520
500
600
580
560
540
520
500
600
580
560
540
520
500
SHEET TOTAL

END AREA VOLUME
 CUT FILL CUT FILL
 CALCULATED MME
 CHECKED ADW
CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP A
STA. 1913+50.00 TO STA. 1914+50.00
SCI-823-10.13
 564

11/23/2007 9:21 AM
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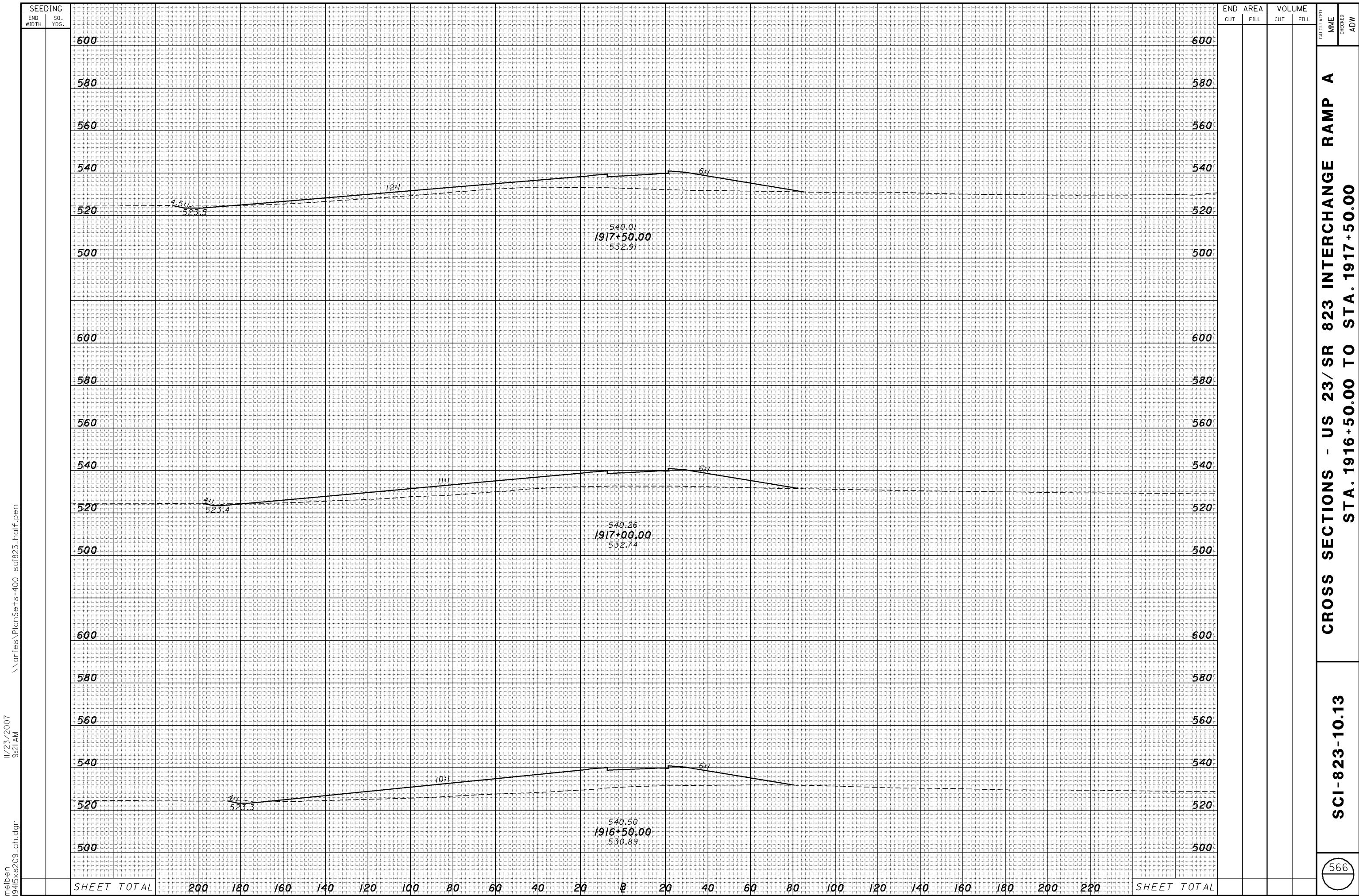
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mellen 1945xs208_ch.dgn

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP A
STA. 1915+00.00 TO STA. 1916+00.00

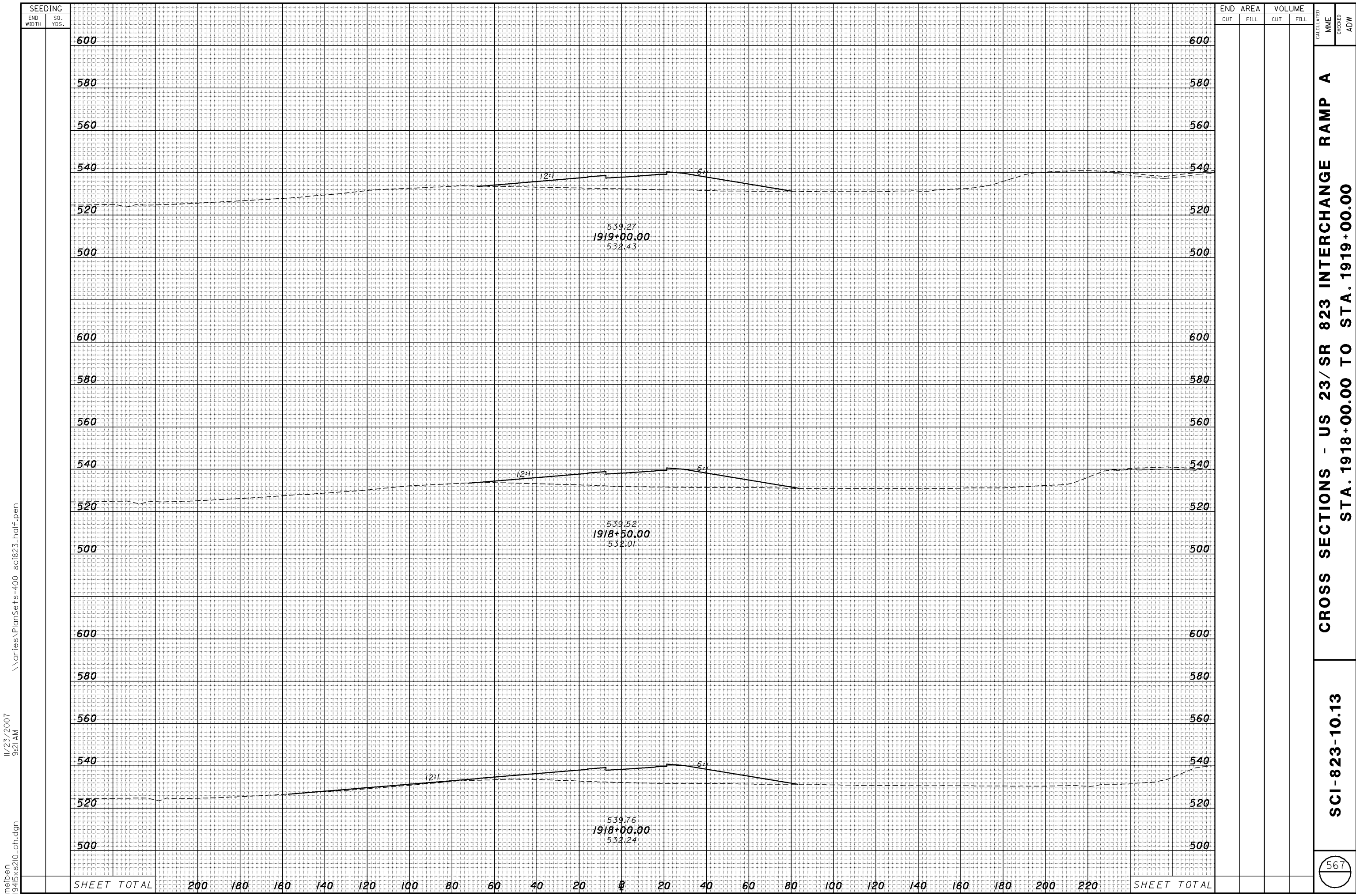
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meiben 19415xs209_ch.dgn 11/23/2007 9:21 AM \\aries\PlanSets-400_sci823_half.pen

**CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP A
STA. 1916+50.00 TO STA. 1917+50.00**

SCI-823-10.13



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11/23/2007 9:21 AM

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SHEET TOTAL

200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220

SHEET TOTAL

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP A
 STA. 1918+00.00 TO STA. 1919+00.00

SCI-823-10.13

567

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

600

600

580

580

560

560

540

540

520

520

500

500

600

600

580

580

560

560

540

540

520

520

500

500

600

600

580

580

560

560

540

540

520

520

500

500

538.92
1920+50.00
532.98

538.92
1920+00.00
532.63

539.04
1919+50.00
532.55

12:1

6:1

12:1

6:1

12:1

6:1

SHEET TOTAL

200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220

SHEET TOTAL

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP A
STA. 1919+50.00 TO STA. 1920+50.00

SCI-823-10.13

568

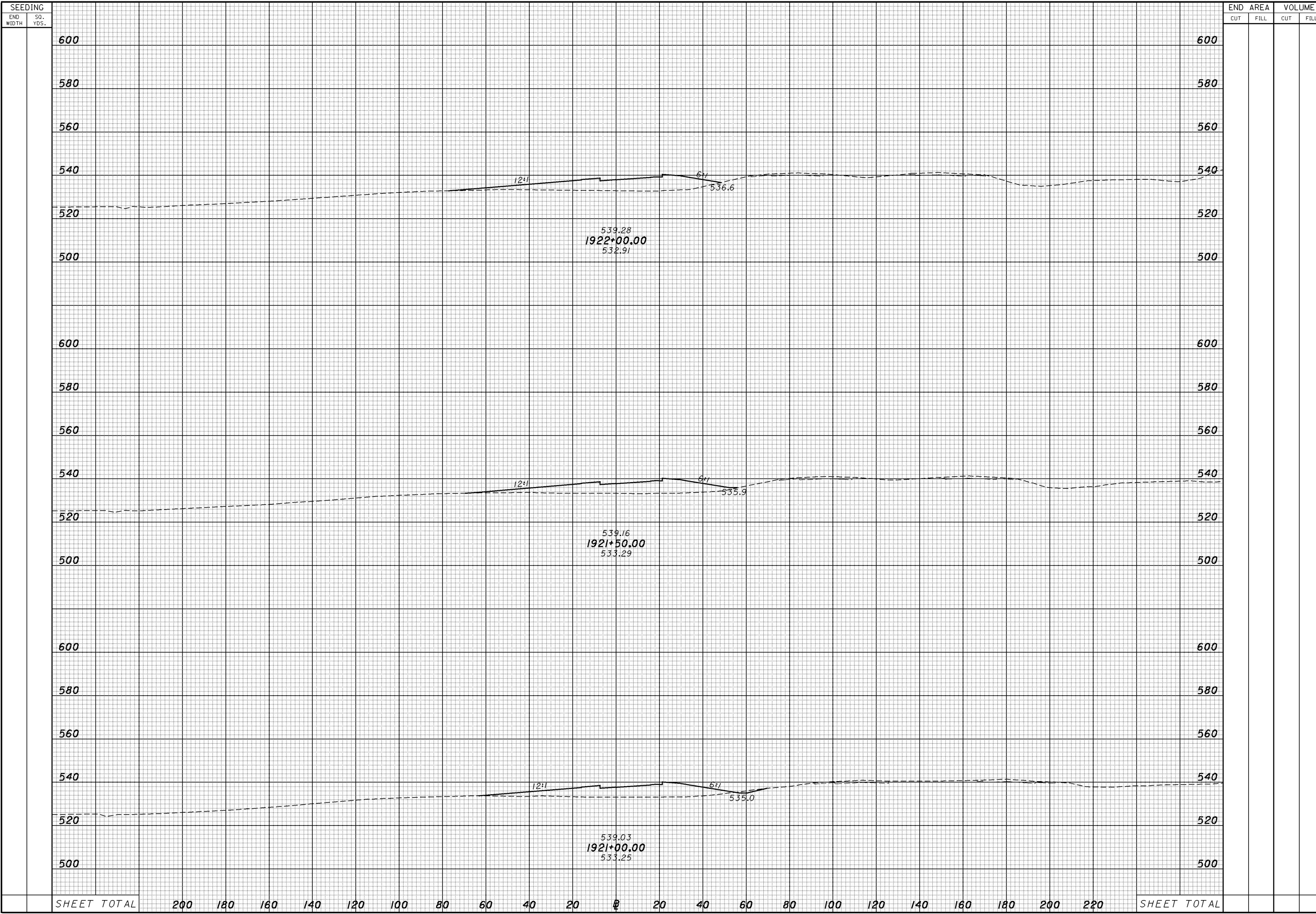
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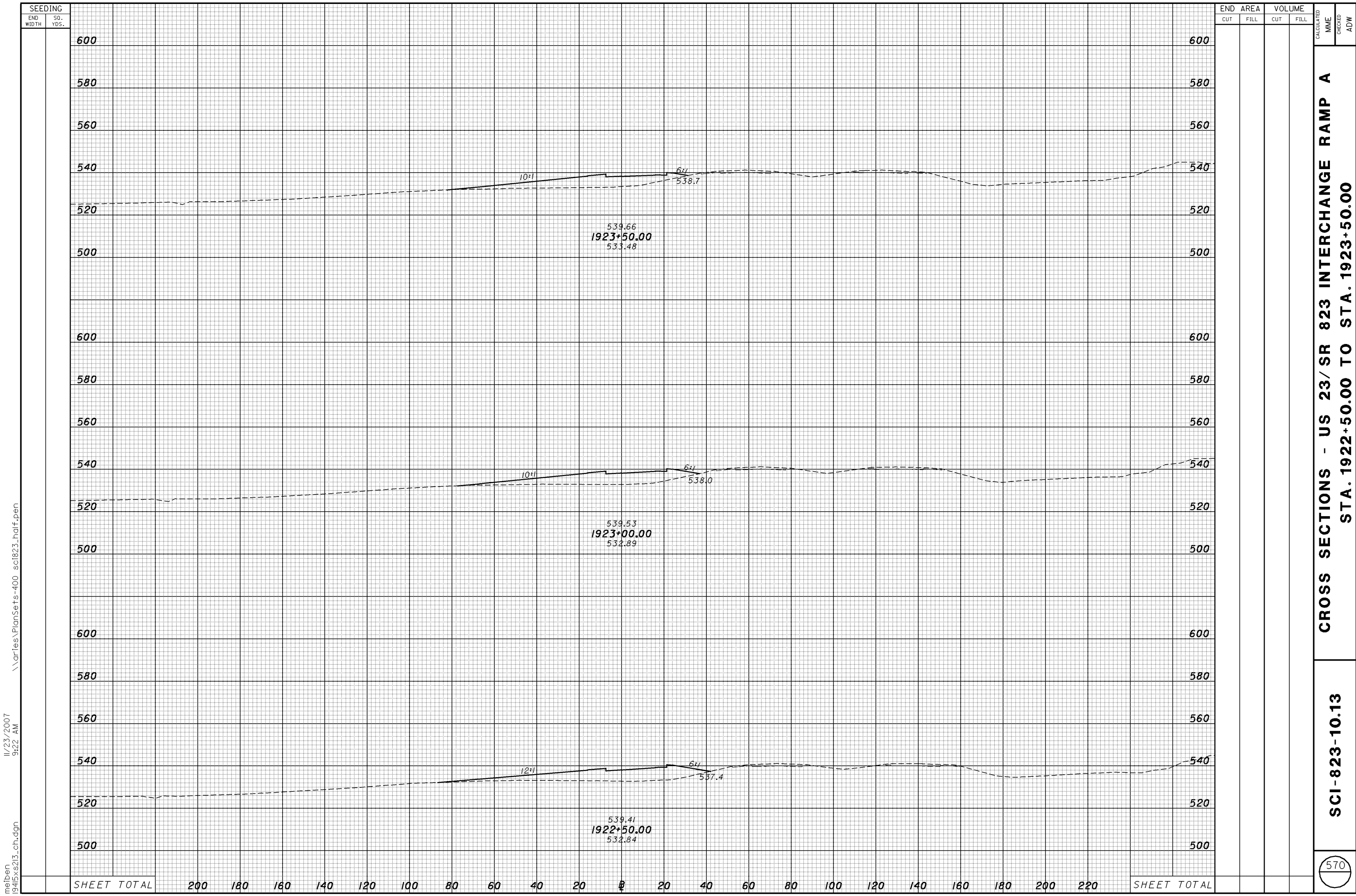
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END	AREA		VOLUME		CALCULATED MME	CHECKED ADW																			
	CUT	FILL	CUT	FILL																					
600																									
580																									
560																									
540																									
520																									
500																									
600																									
580																									
560																									
540																									
520																									
500																									
600																									
580																									
560																									
540																									
520																									
500																									
SHEET TOTAL		200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL	

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP A
STA. 1921+00.00 TO STA. 1922+00.00

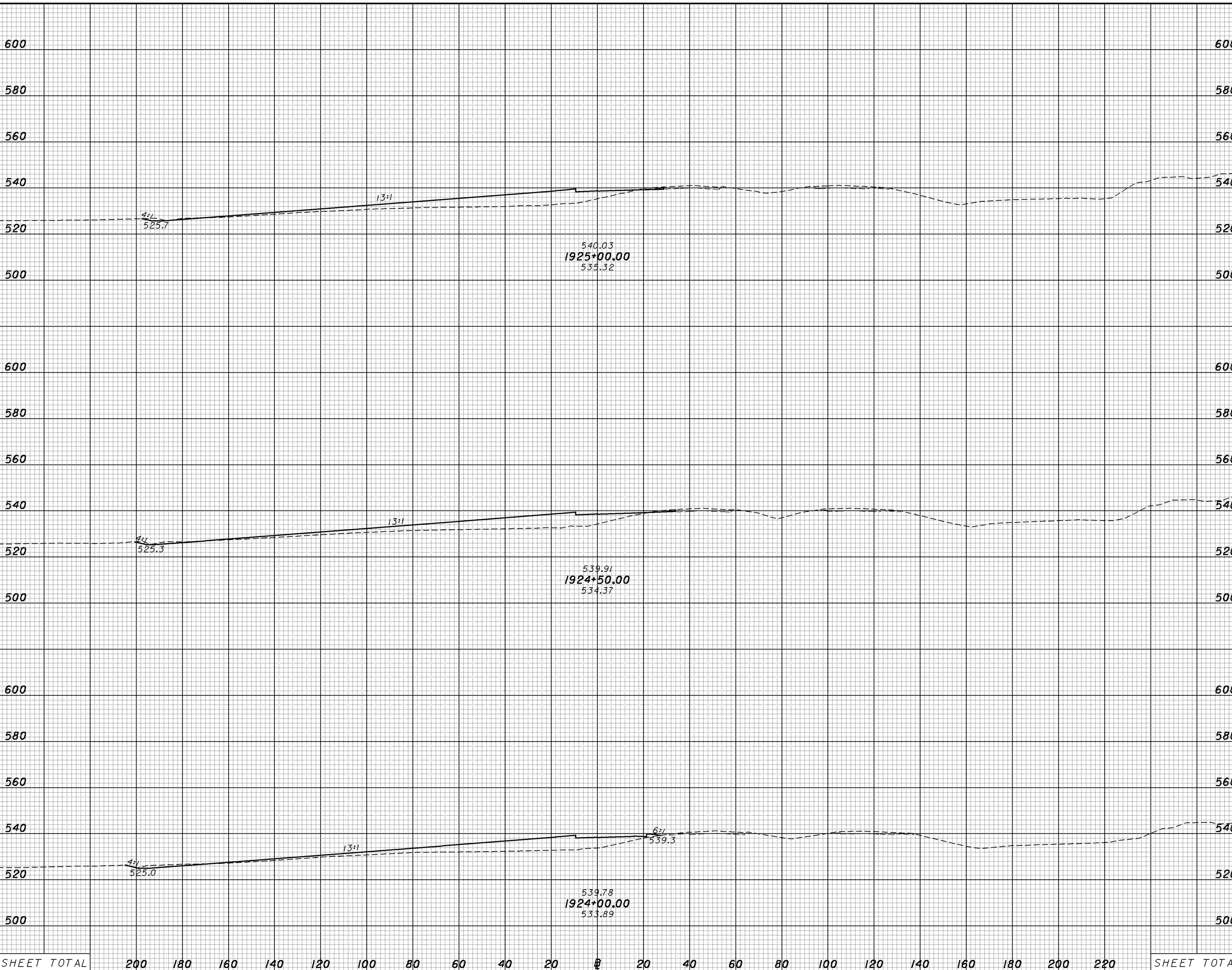
SCI-823-10.13



SEEDING
 END WIDTH SQ. YDS.
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 meiben 19415xs23_ch.dgn

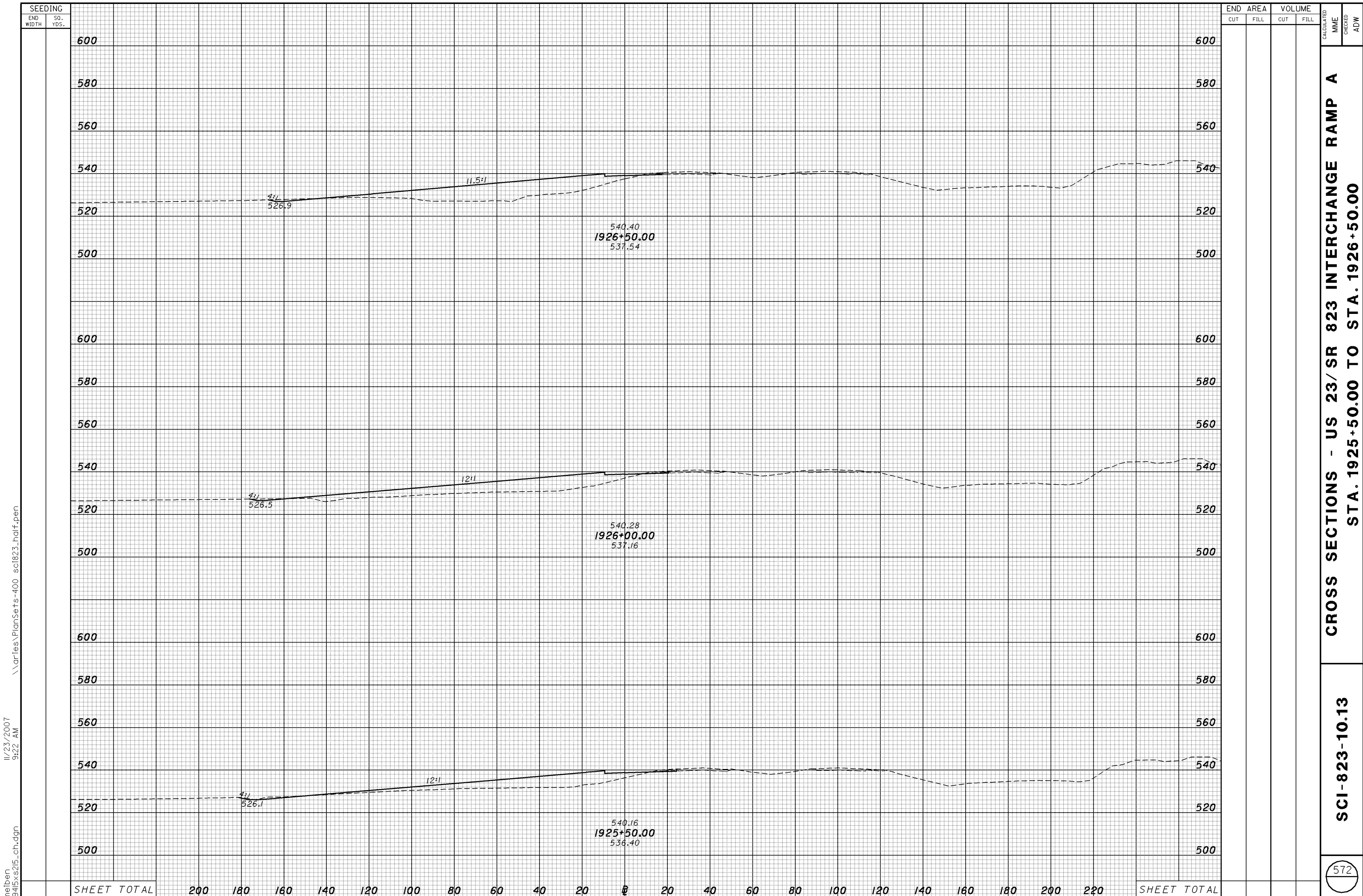
SEEDING		END AREA		VOLUME																				
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL																			
600																								
580																								
560																								
540																								
520																								
500																								
600																								
580																								
560																								
540																								
520																								
500																								
600																								
580																								
560																								
540																								
520																								
500																								
SHEET TOTAL		200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP A
 STA. 1922+50.00 TO STA. 1923+50.00
 SCI-823-10.13
 570



SEEDING	END WIDTH	SQ. YDS.	END	AREA		VOLUME		CALCULATED	CHECKED																				
				CUT	FILL	CUT	FILL			MME	ADW																		
600																													
580																													
560																													
540																													
520																													
500																													
600																													
580																													
560																													
540																													
520																													
500																													
600																													
580																													
560																													
540																													
520																													
500																													
SHEET TOTAL				200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL			

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP A
STA. 1924+00.00 TO STA. 1925+00.00



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CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP A
STA. 1925+50.00 TO STA. 1926+50.00

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CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP A
 STA. 1927+00.00 TO STA. 1928+00.00

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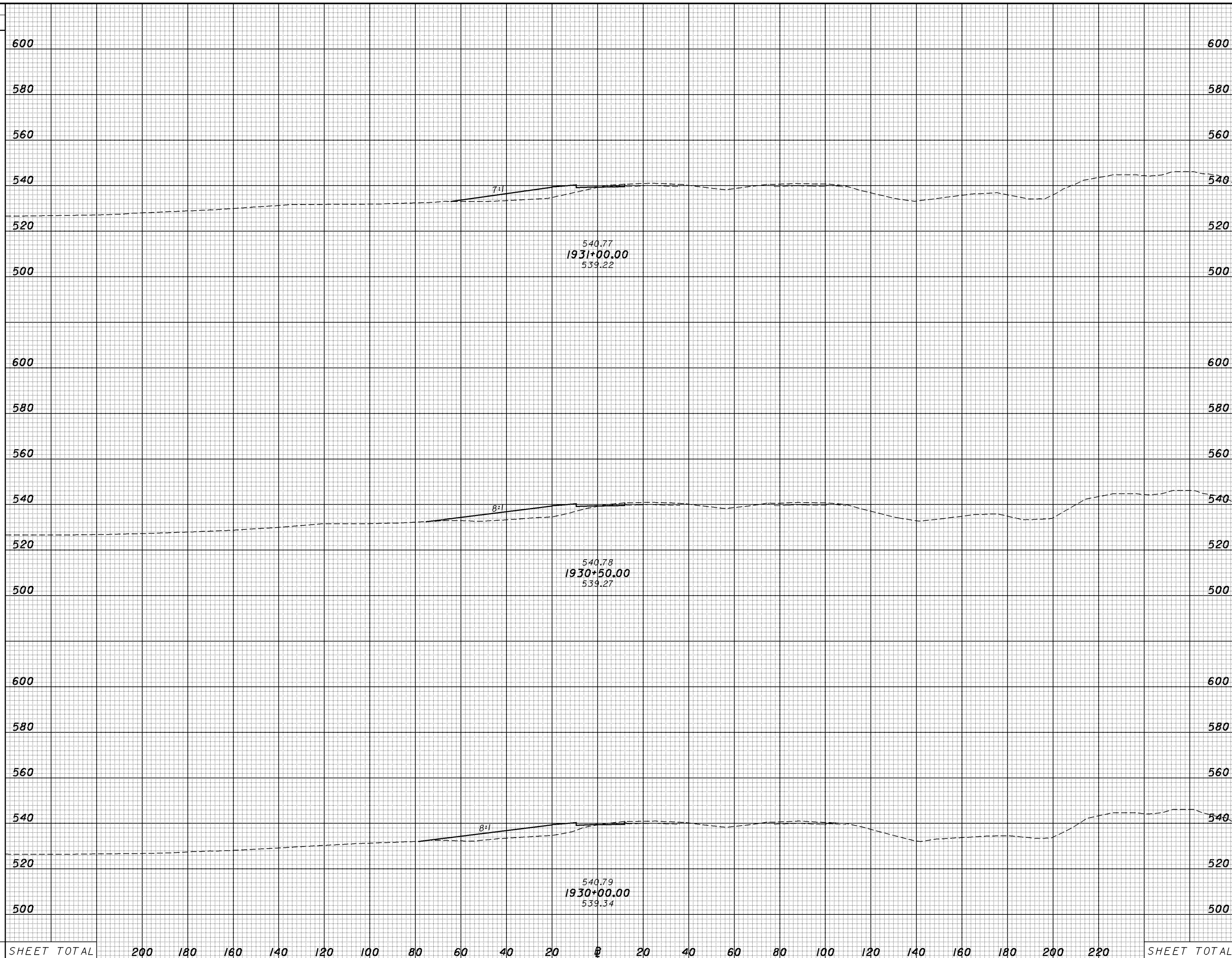


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CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP A
STA. 1928+50.00 TO STA. 1929+50.00

SCI-823-10.13

SEEDING
END SO. YDS.
WIDTH YDS.
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meiben 1945xs28_ch.dgn



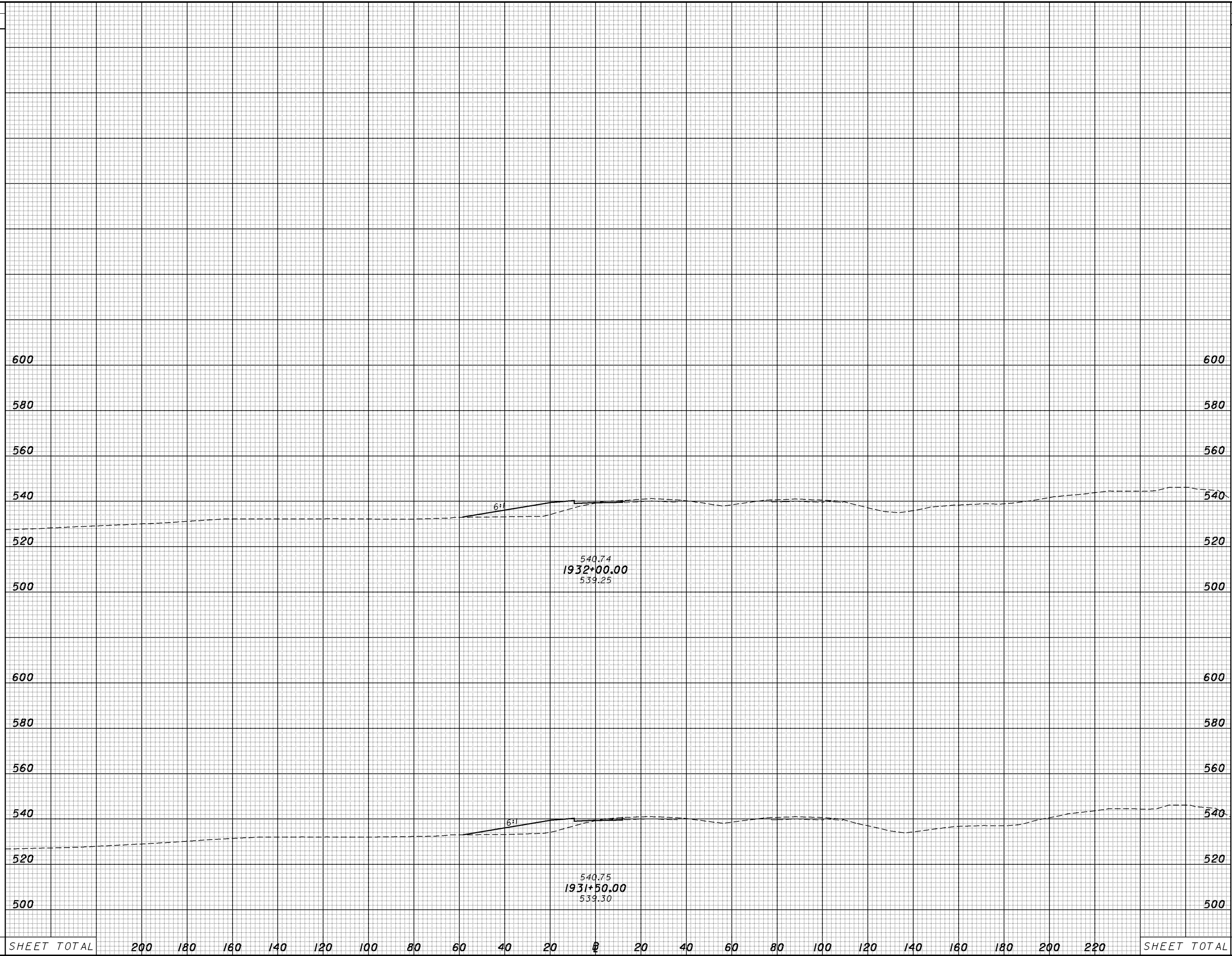
END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP A
STA. 1930+00.00 TO STA. 1931+00.00

SCI-823-10.13

575

SEEDING
 END WIDTH SO. YDS.
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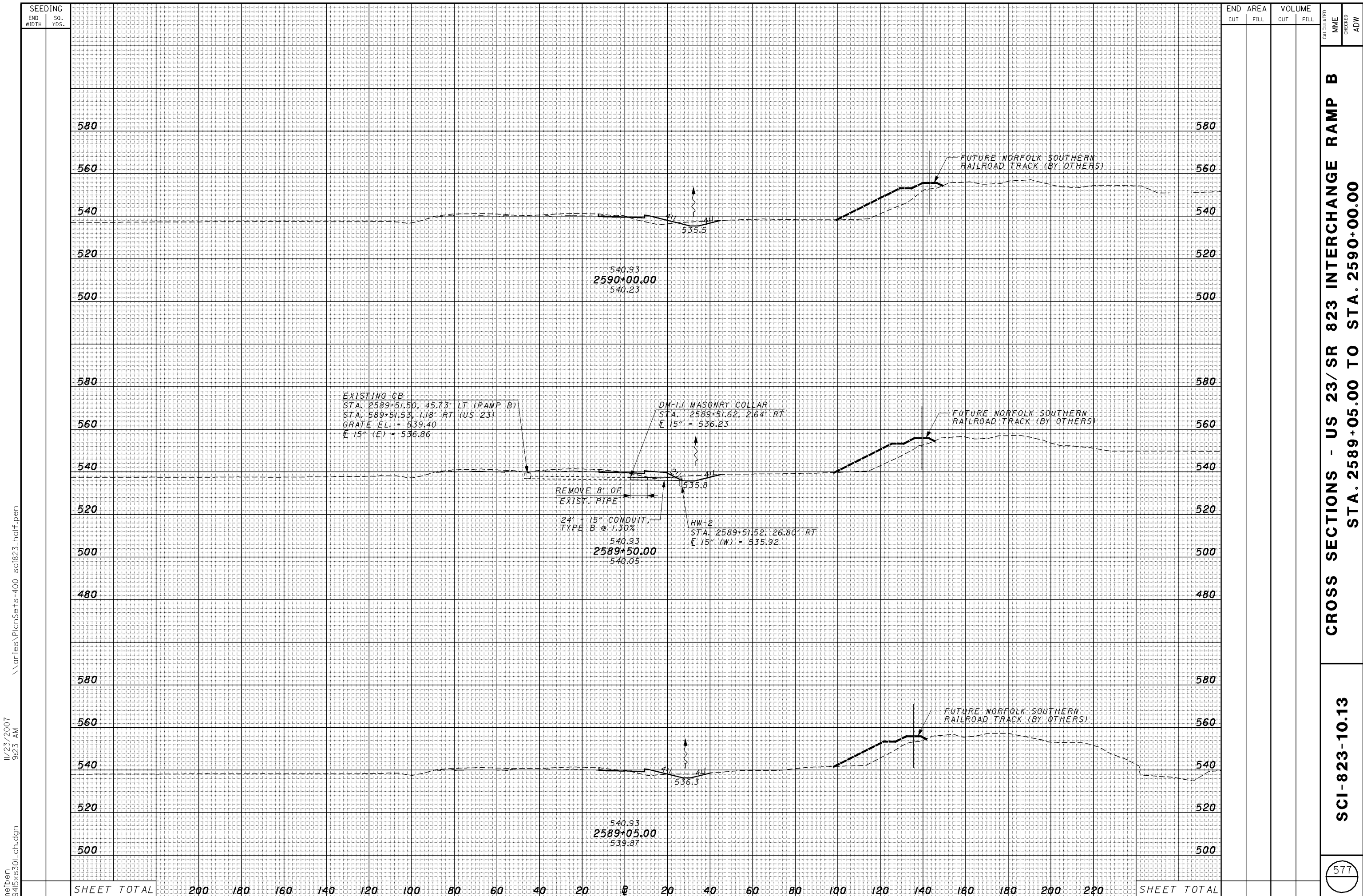


END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MME	ADW

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP A
STA. 1931+50.00 TO STA. 1932+00.00

SCI-823-10.13

(576)



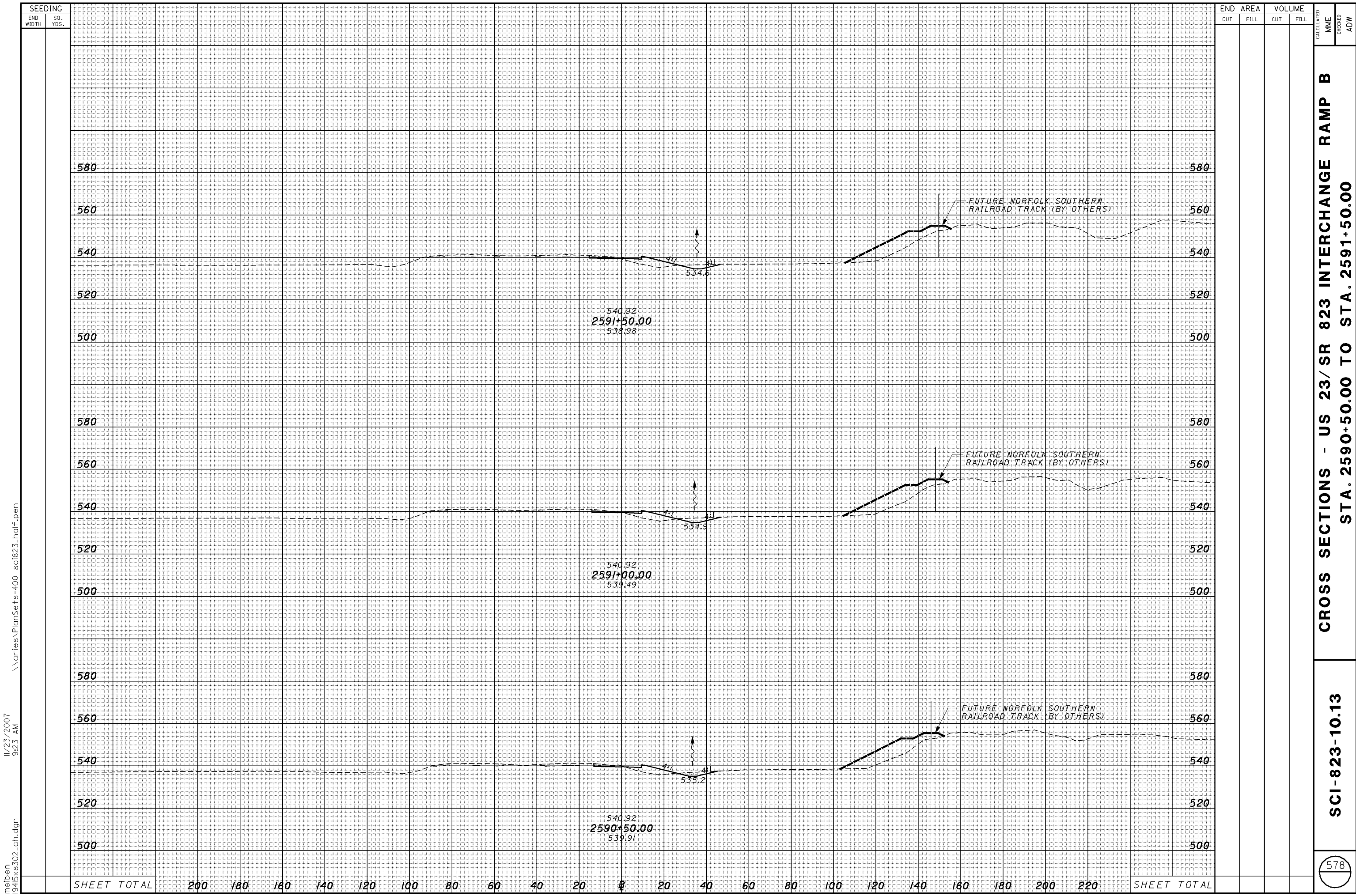
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 melben 1945xs30_ch.dgn

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP B
 STA. 2589+05.00 TO STA. 2590+00.00

SCI-823-10.13

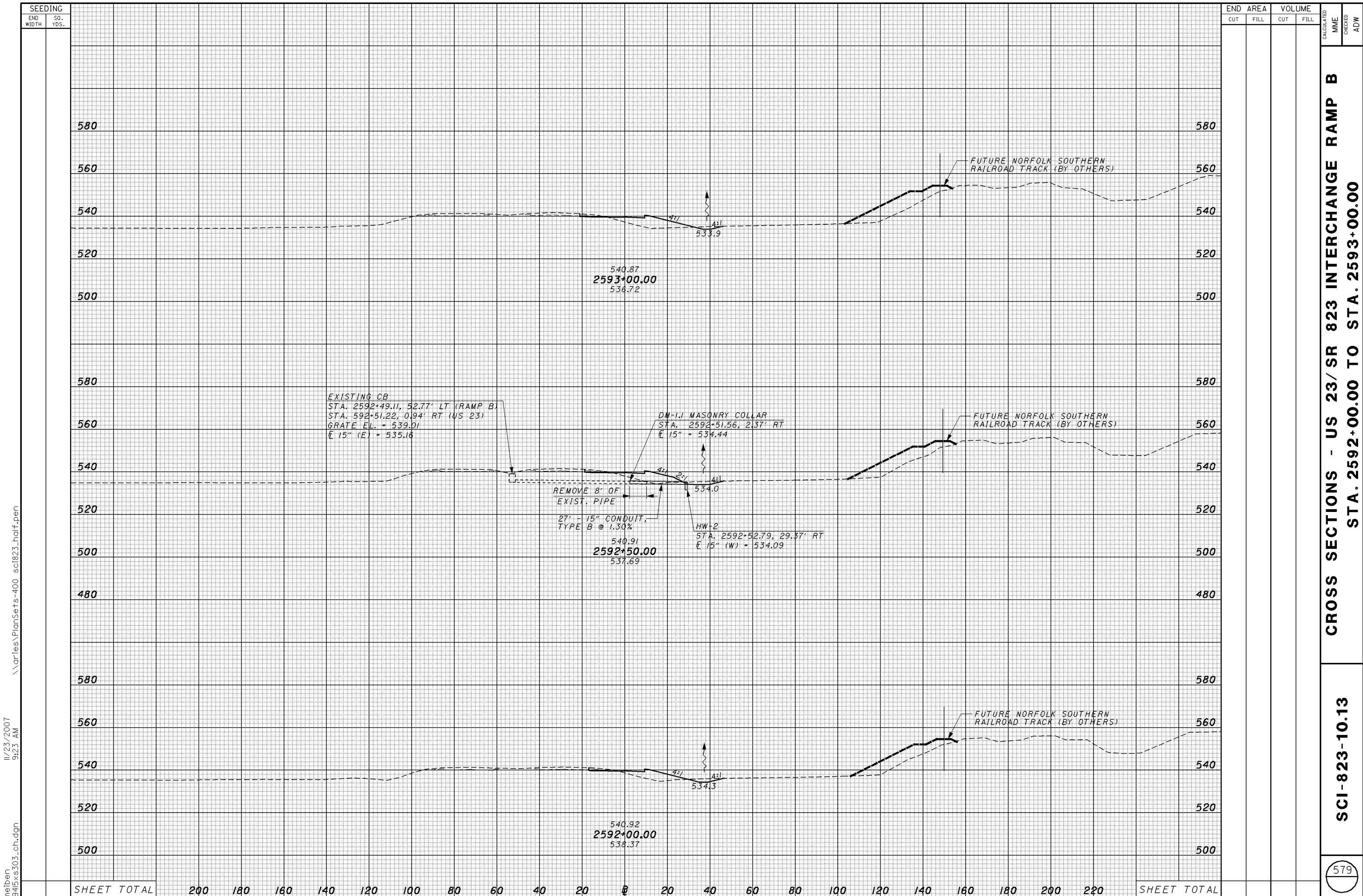
577



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CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP B
STA. 2590+50.00 TO STA. 2591+50.00

SCI-823-10.13



END	AREA		VOLUME		CALCULATED	CHECKED
	CUT	FILL	CUT	FILL		

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP B
 STA. 2592+00.00 TO STA. 2593+00.00

SCI-823-10.13

579

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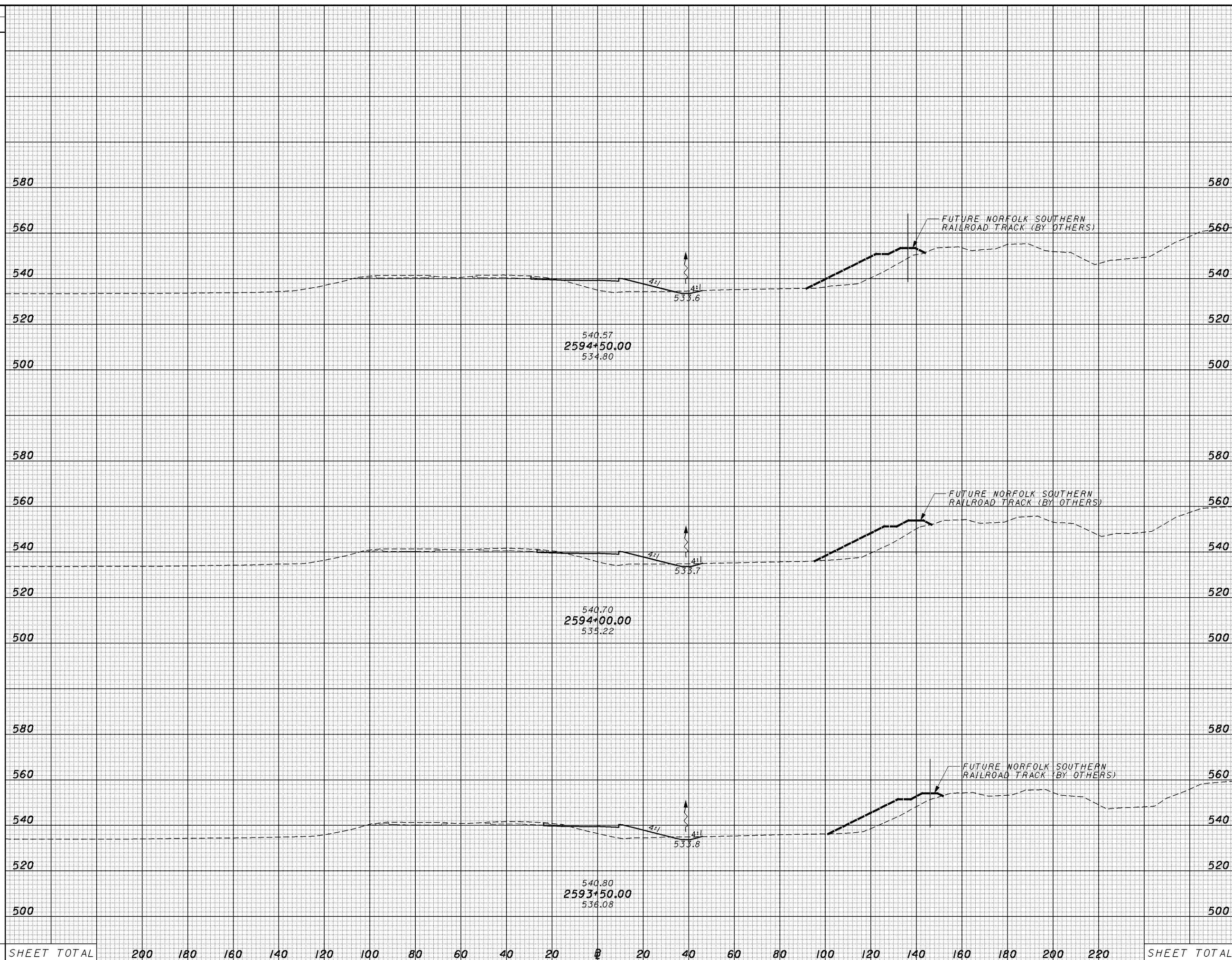
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 melben 1945xs304_ch.dgn

SEEDING
 END SO. SQ.
 WIDTH YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED MME
 CHECKED ADW



CROSS SECTIONS - US 23/ SR 823 INTERCHANGE RAMP B
 STA. 2593+50.00 TO STA. 2594+50.00

SCI-823-10.13

580

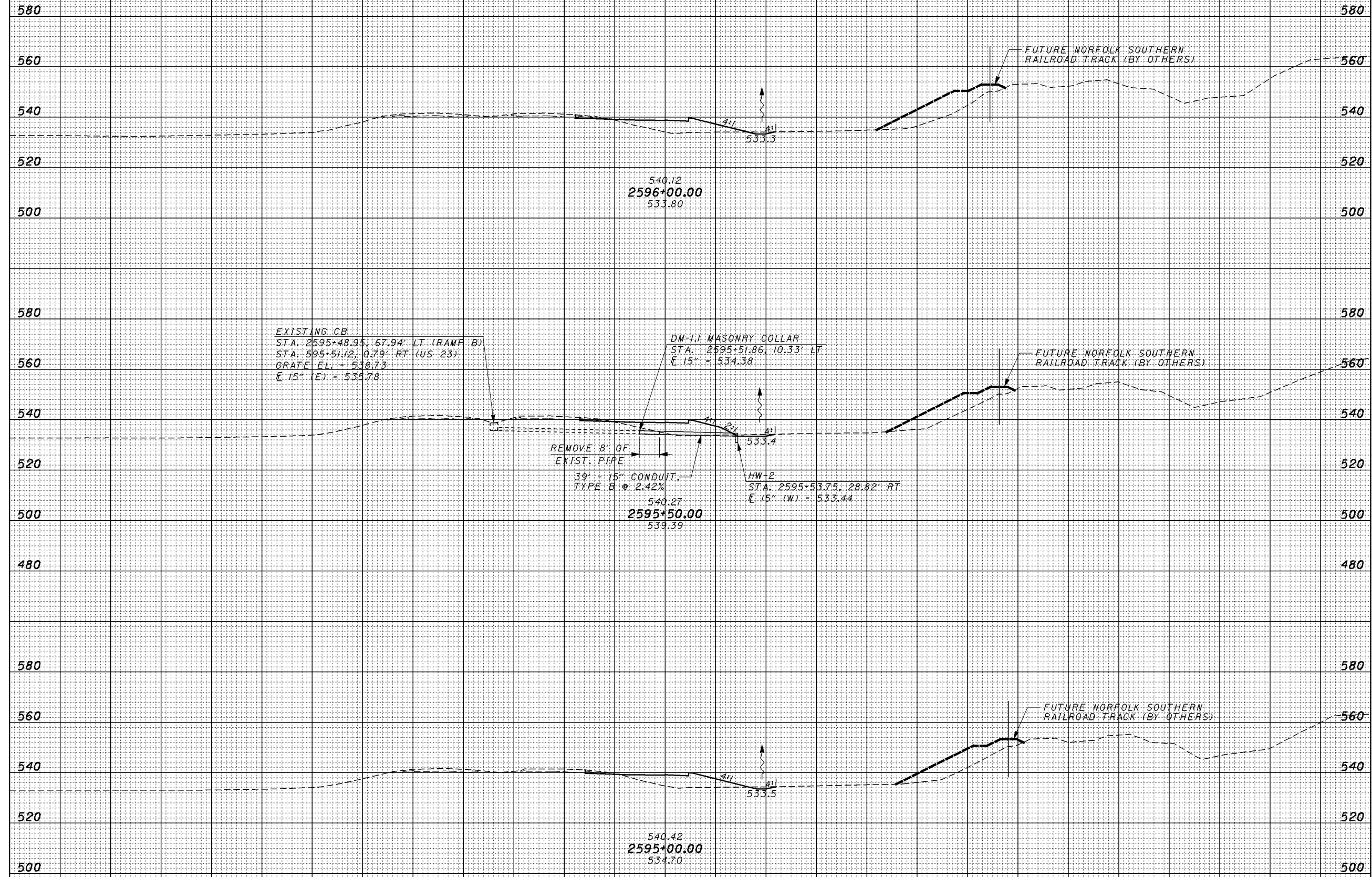
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SHEET TOTAL

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED MME
CHECKED ADW



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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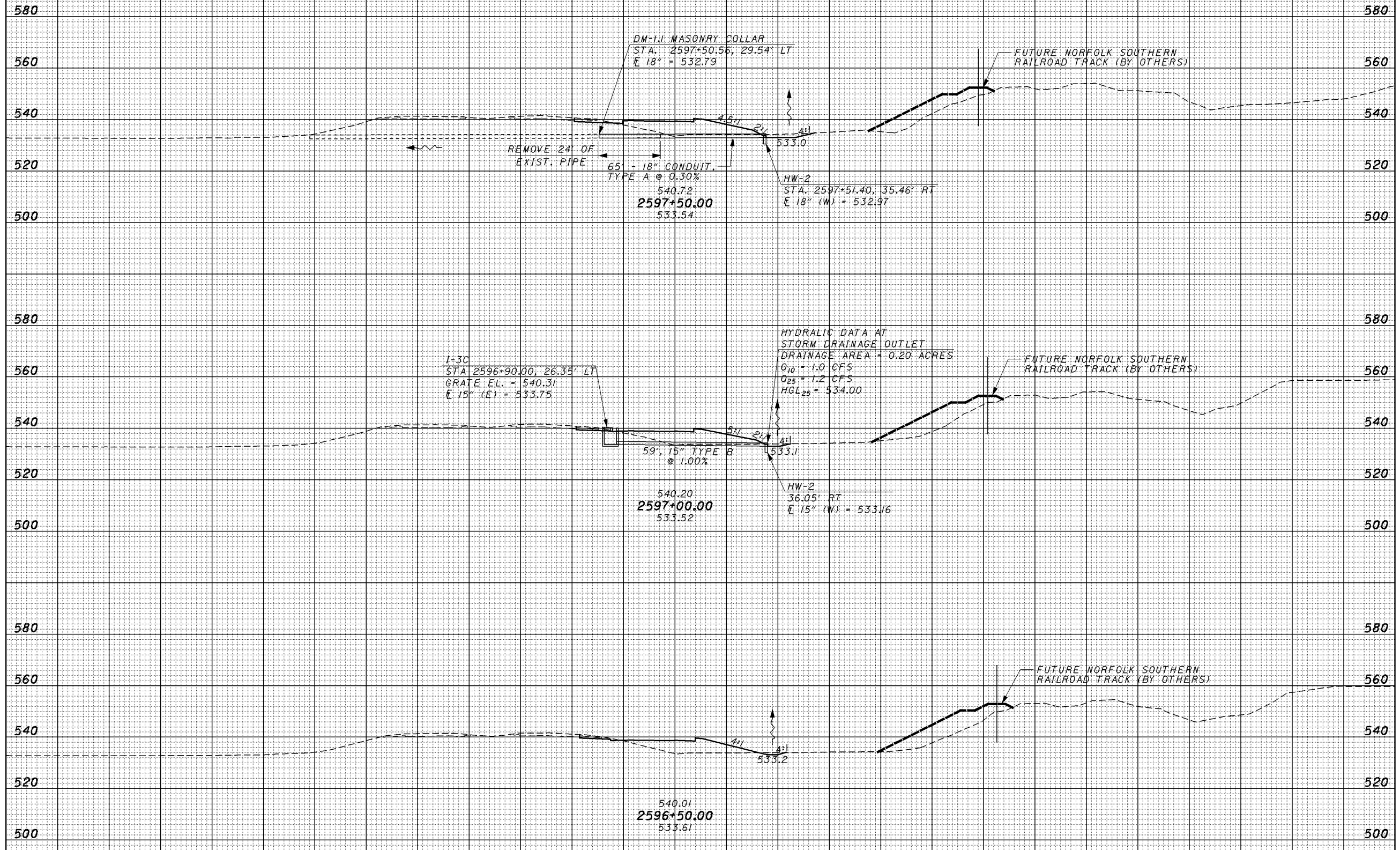
CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP B
STA. 2595+00.00 TO STA. 2596+00.00

SCI-823-10.13

11/23/2007 9:24 AM \\aries\plansets-400_sci823_half.pen
 melben 1945xs305_ch.dgn

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

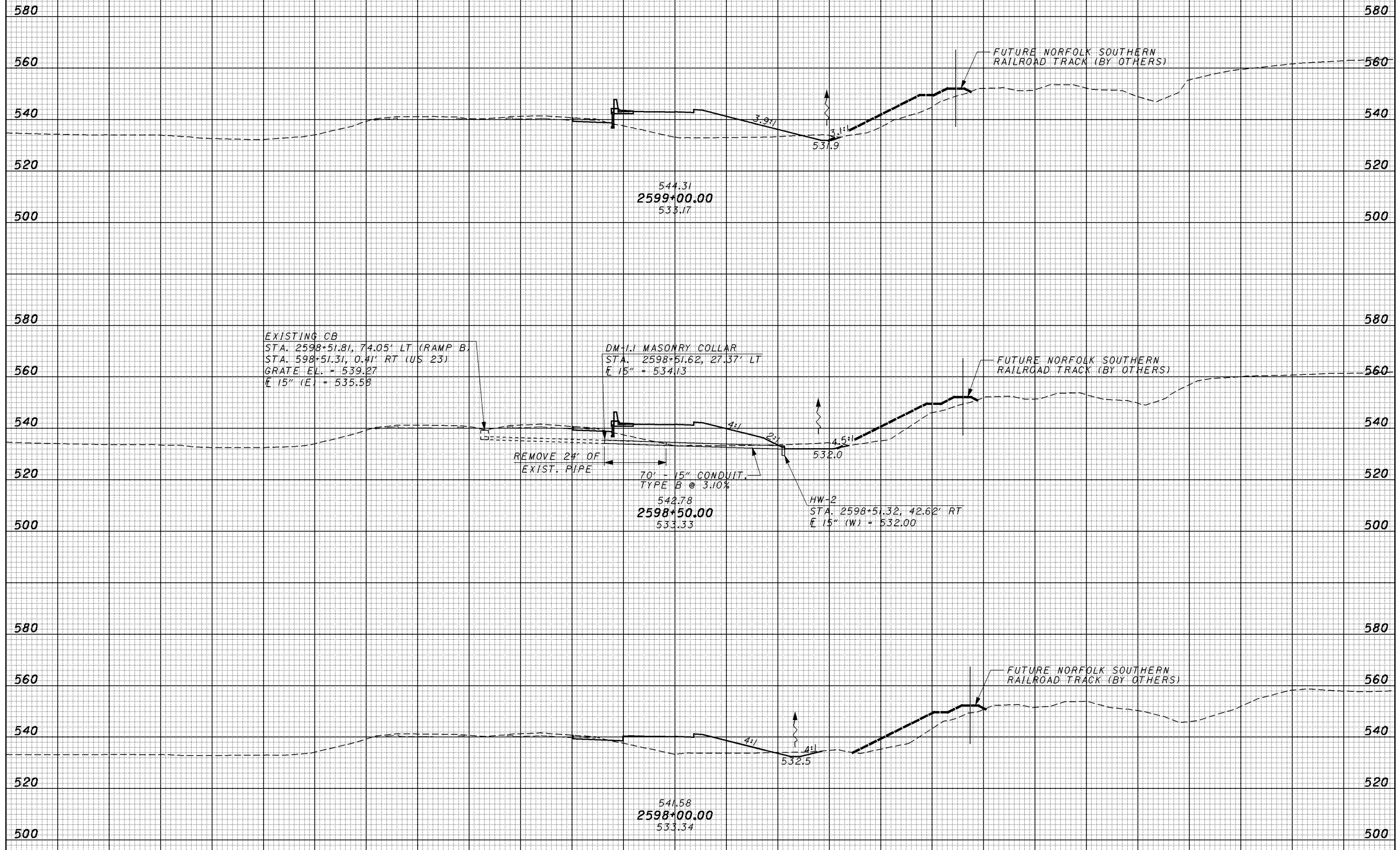
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CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP B
STA. 2596+50.00 TO STA. 2597+50.00

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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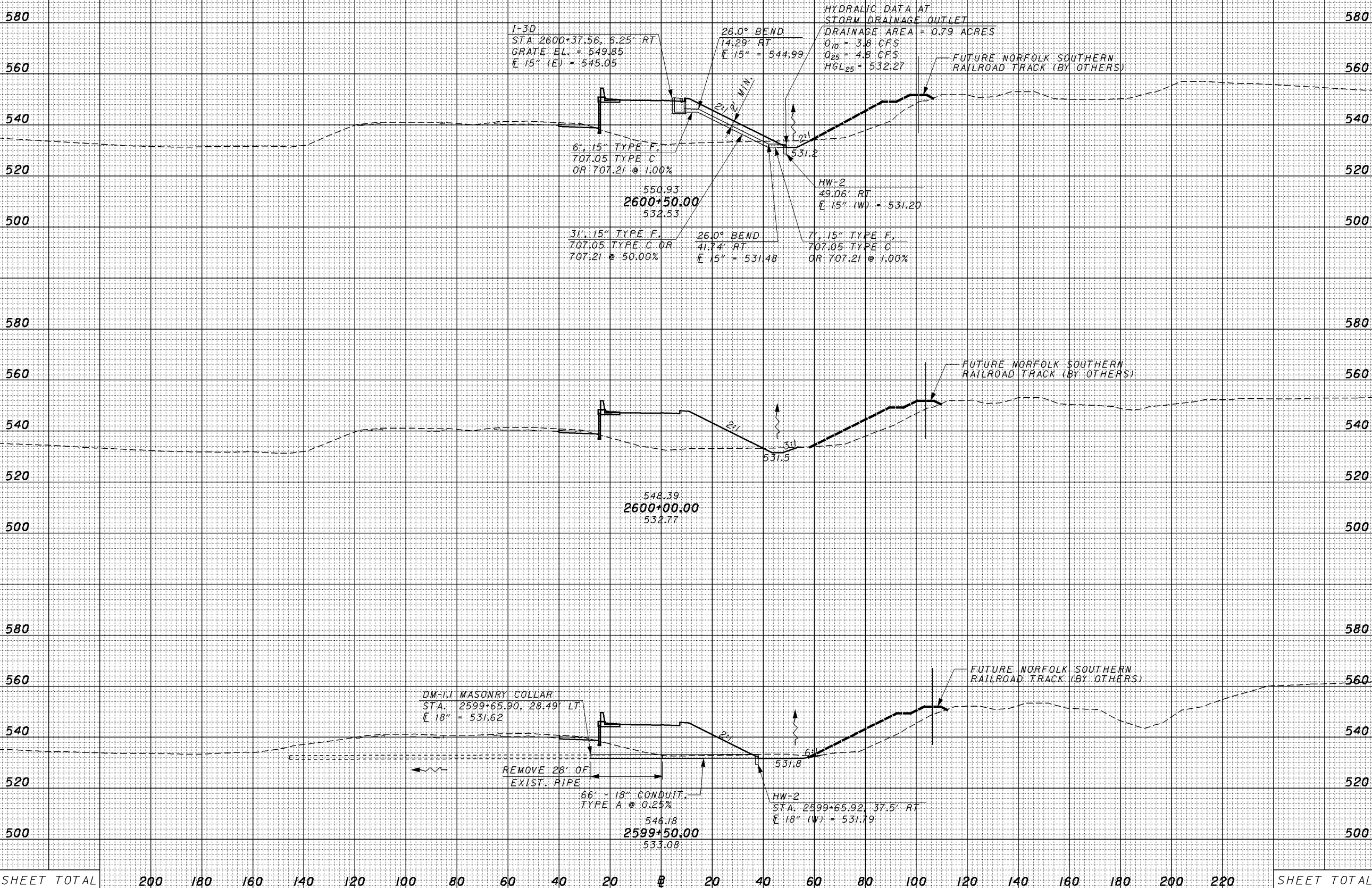
CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP B
STA. 2598+00.00 TO STA. 2599+00.00

SCI-823-10.13

11/23/2007 9:24 AM
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meiben 1945xs307_ch.dgn

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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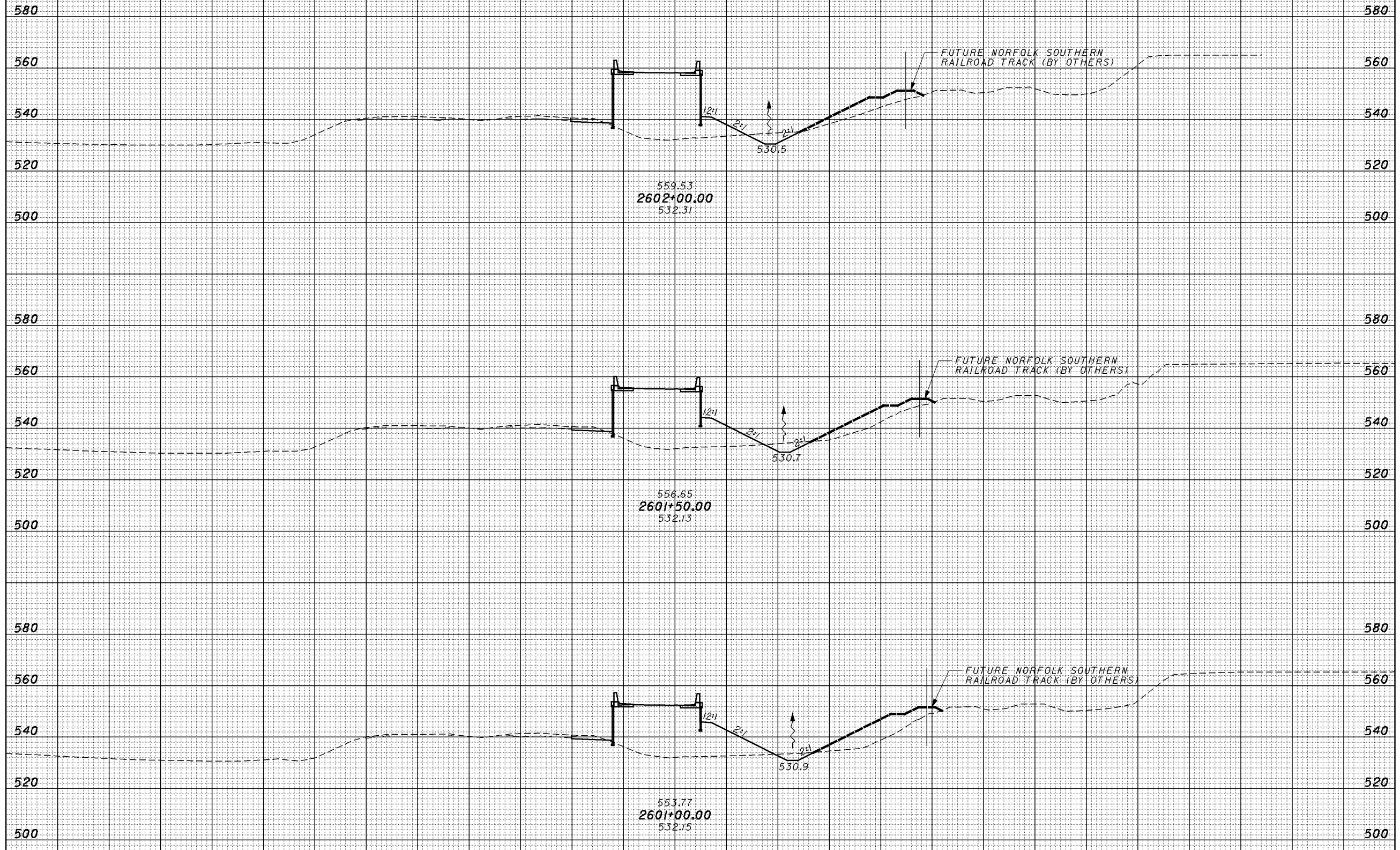
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 STA. 2599+50.00 TO STA. 2600+50.00

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

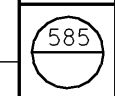
CALCULATED	CHECKED
MME	ADW



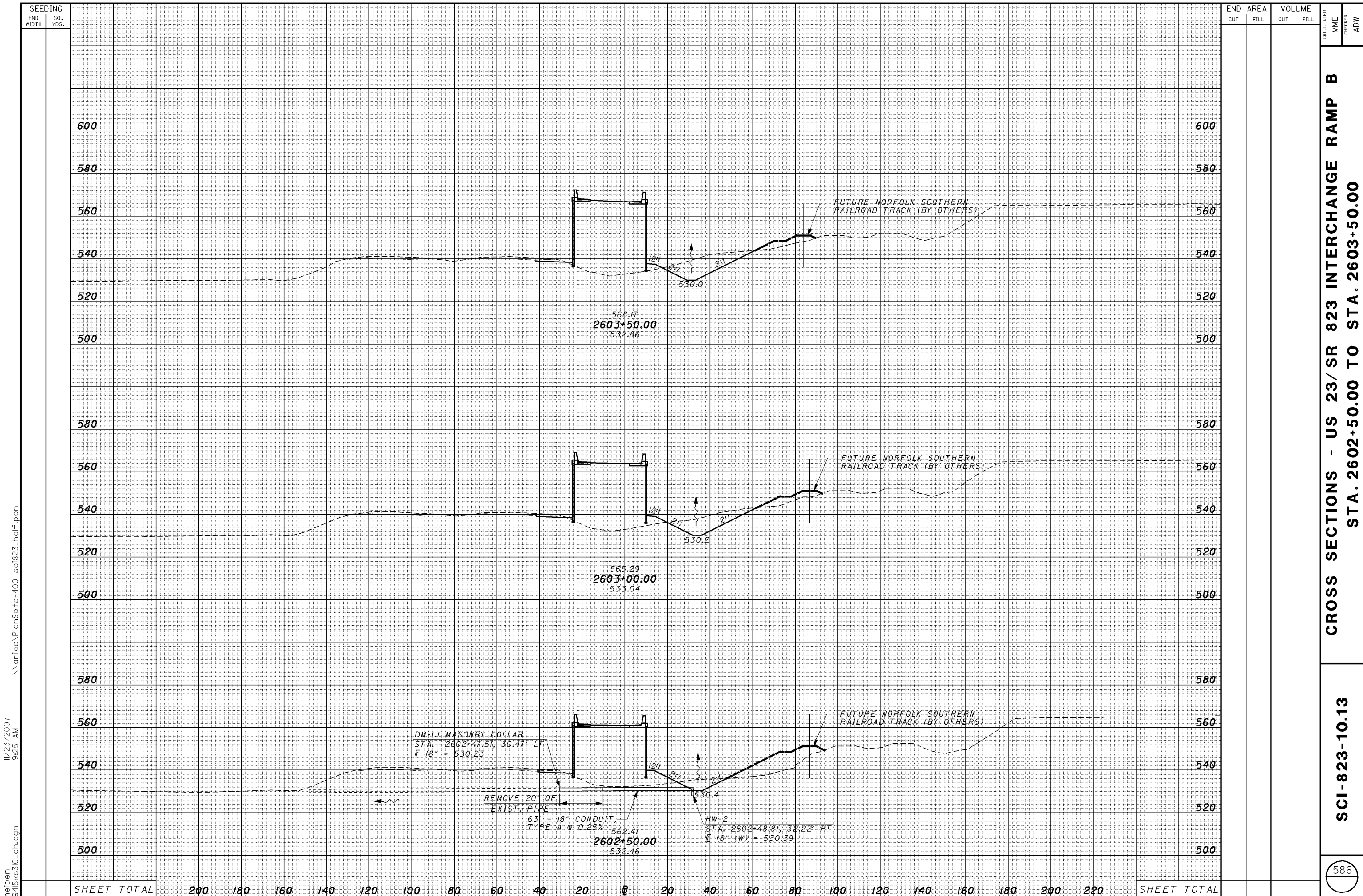
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

CROSS SECTIONS - US 23/ SR 823 INTERCHANGE RAMP B
 STA. 2601+00.00 TO STA. 2602+00.00

SCI-823-10.13



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 meiben 1945xs309_ch.dgn



SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		

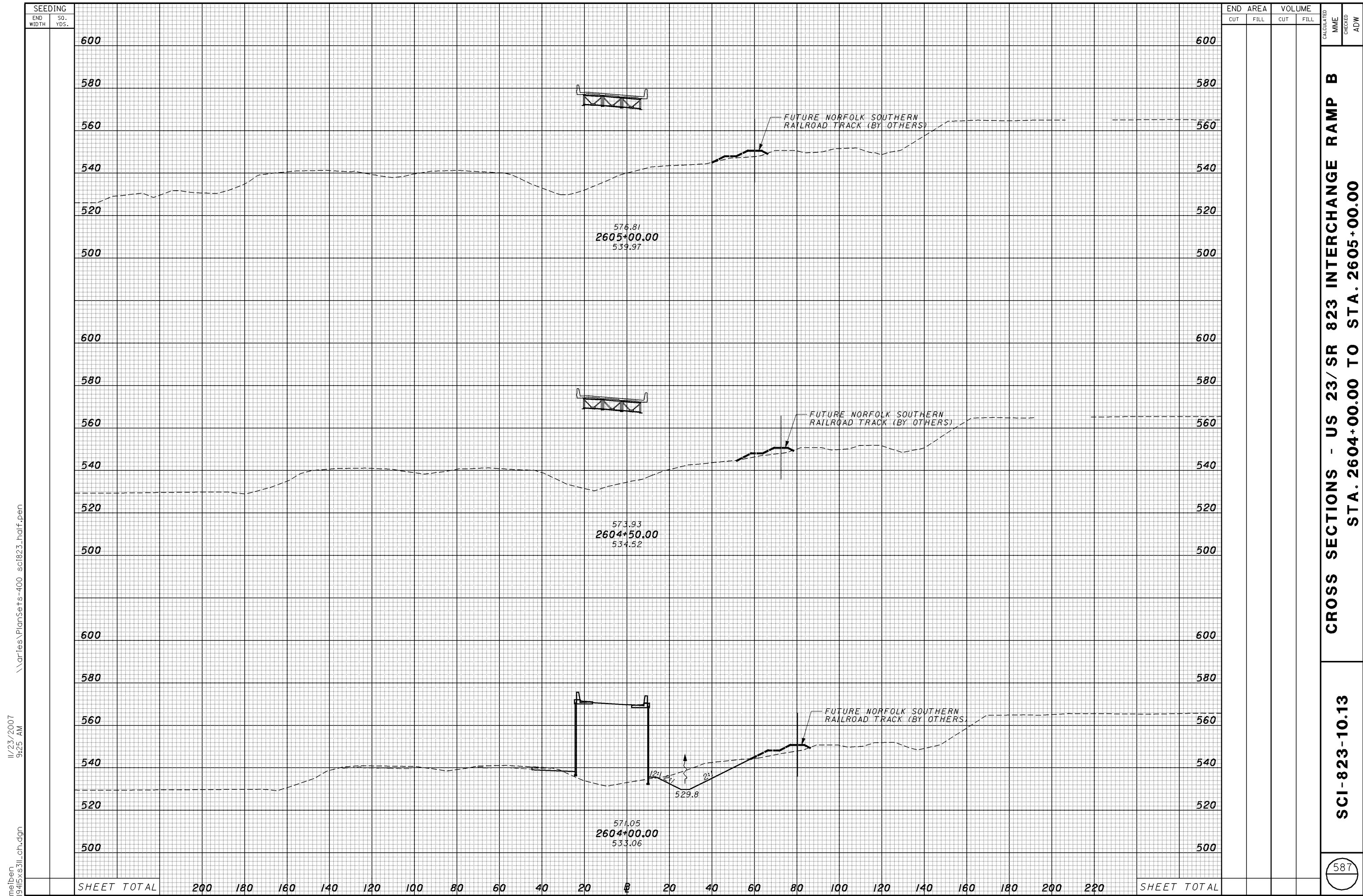
CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP B
STA. 2602+50.00 TO STA. 2603+50.00

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586

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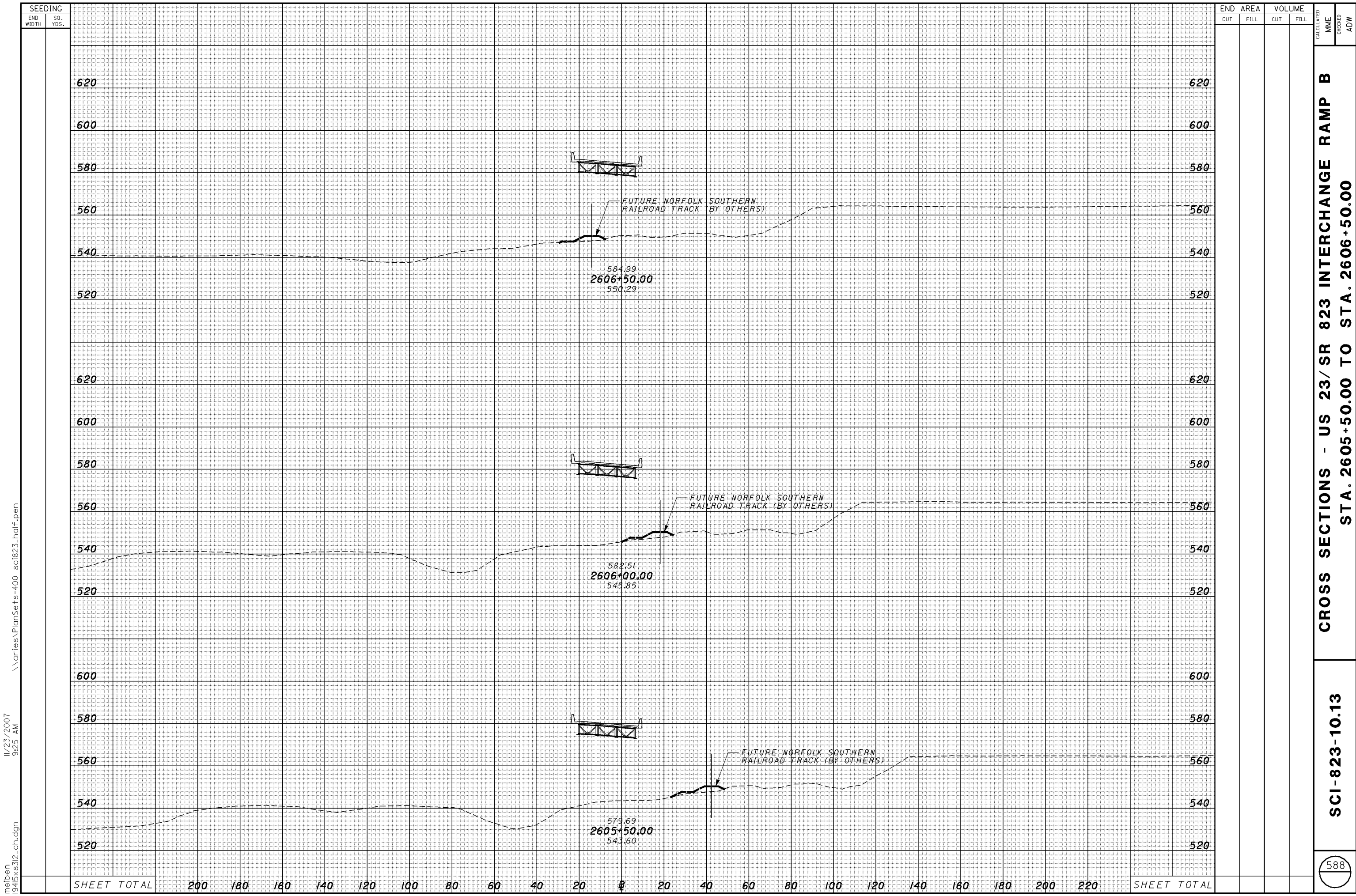
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**CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP B
STA. 2604+00.00 TO STA. 2605+00.00**

SCI-823-10.13



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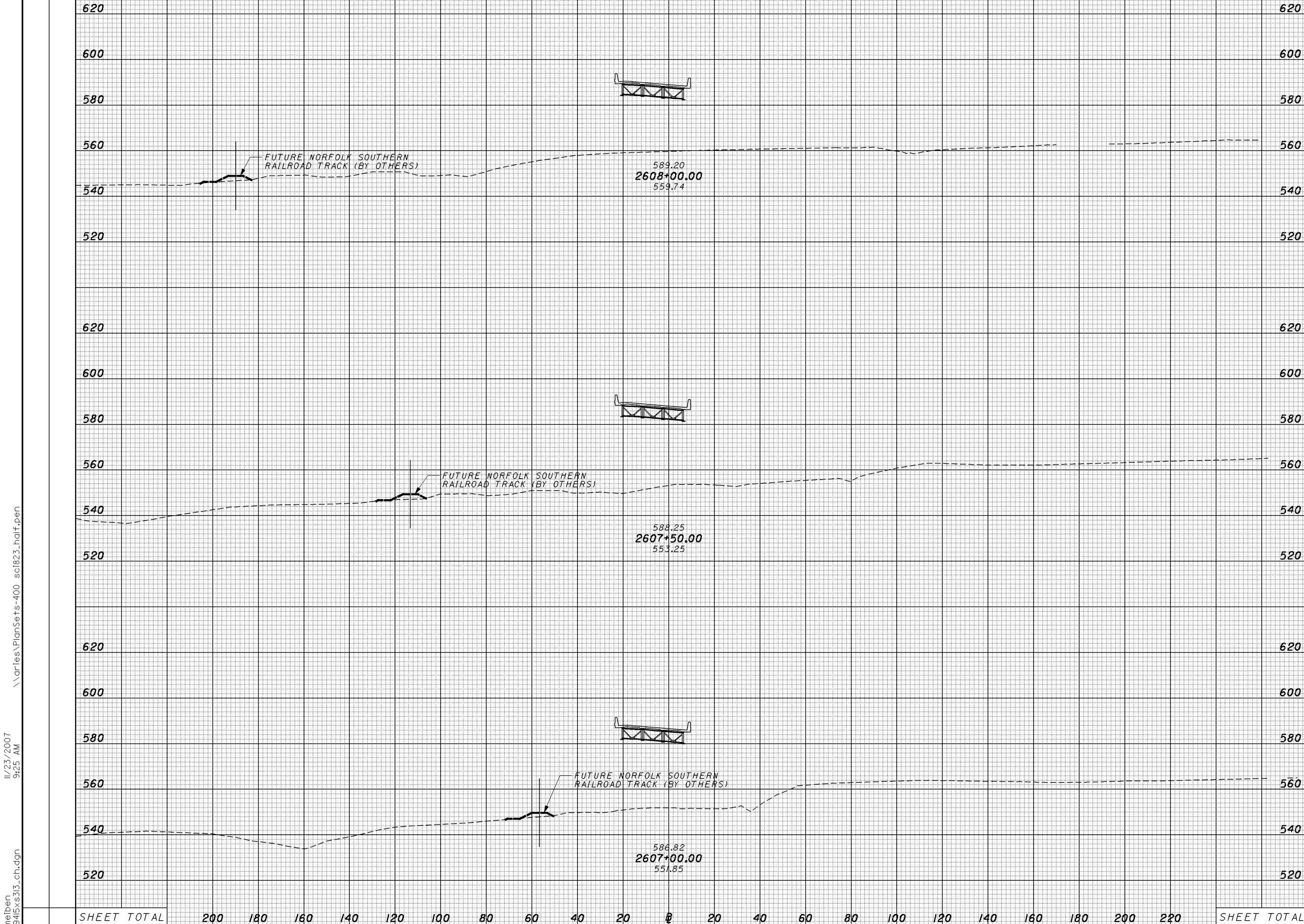
SEEDING		END AREA		VOLUME		CALCULATED MME	CHECKED ADW
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL		

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP B
STA. 2605+50.00 TO STA. 2606+50.00

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP B
STA. 2607+00.00 TO STA. 2608+00.00

SCI-823-10.13

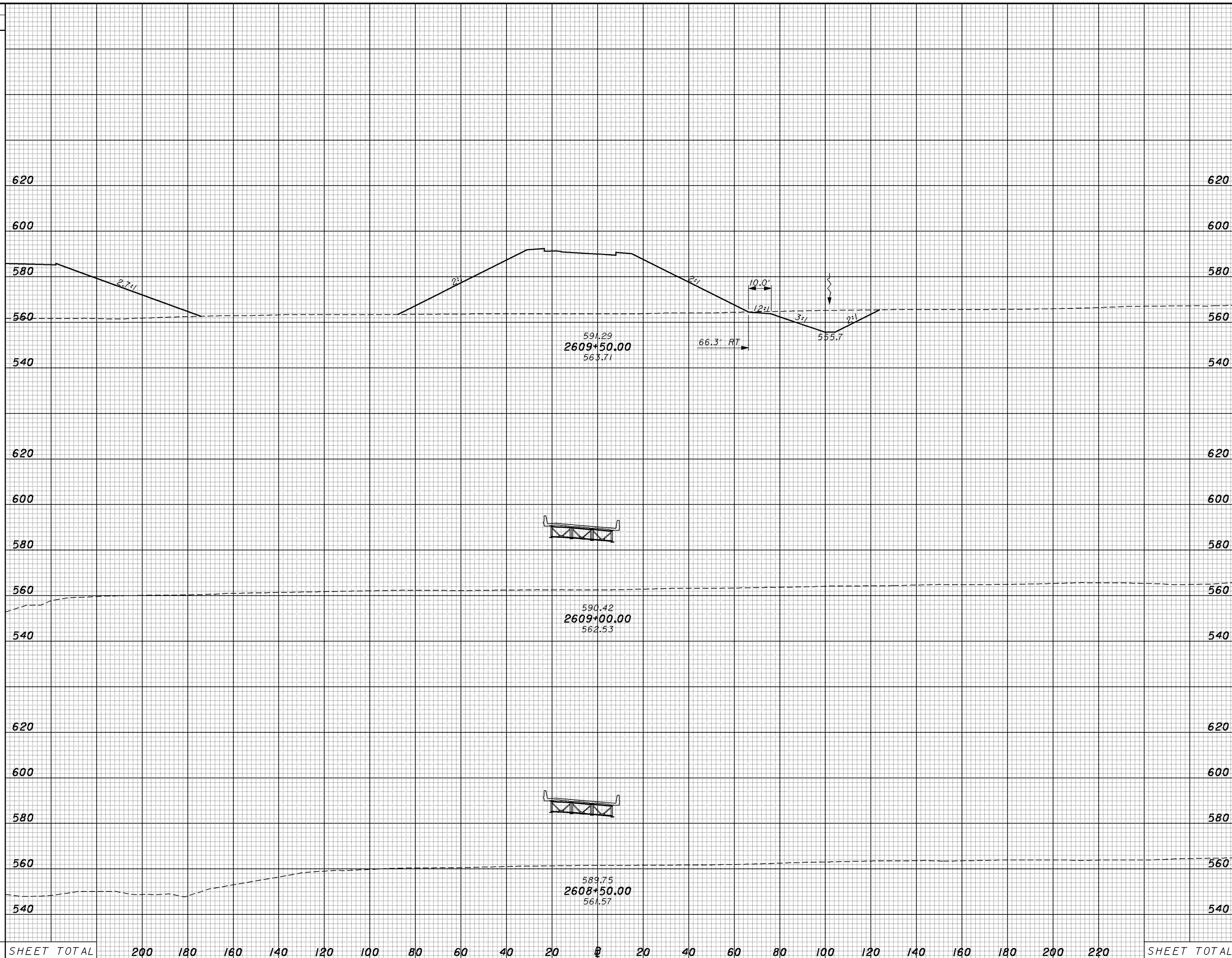
589

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SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP B
STA. 2608+50.00 TO STA. 2609+50.00

SCI-823-10.13

590

SEEDING
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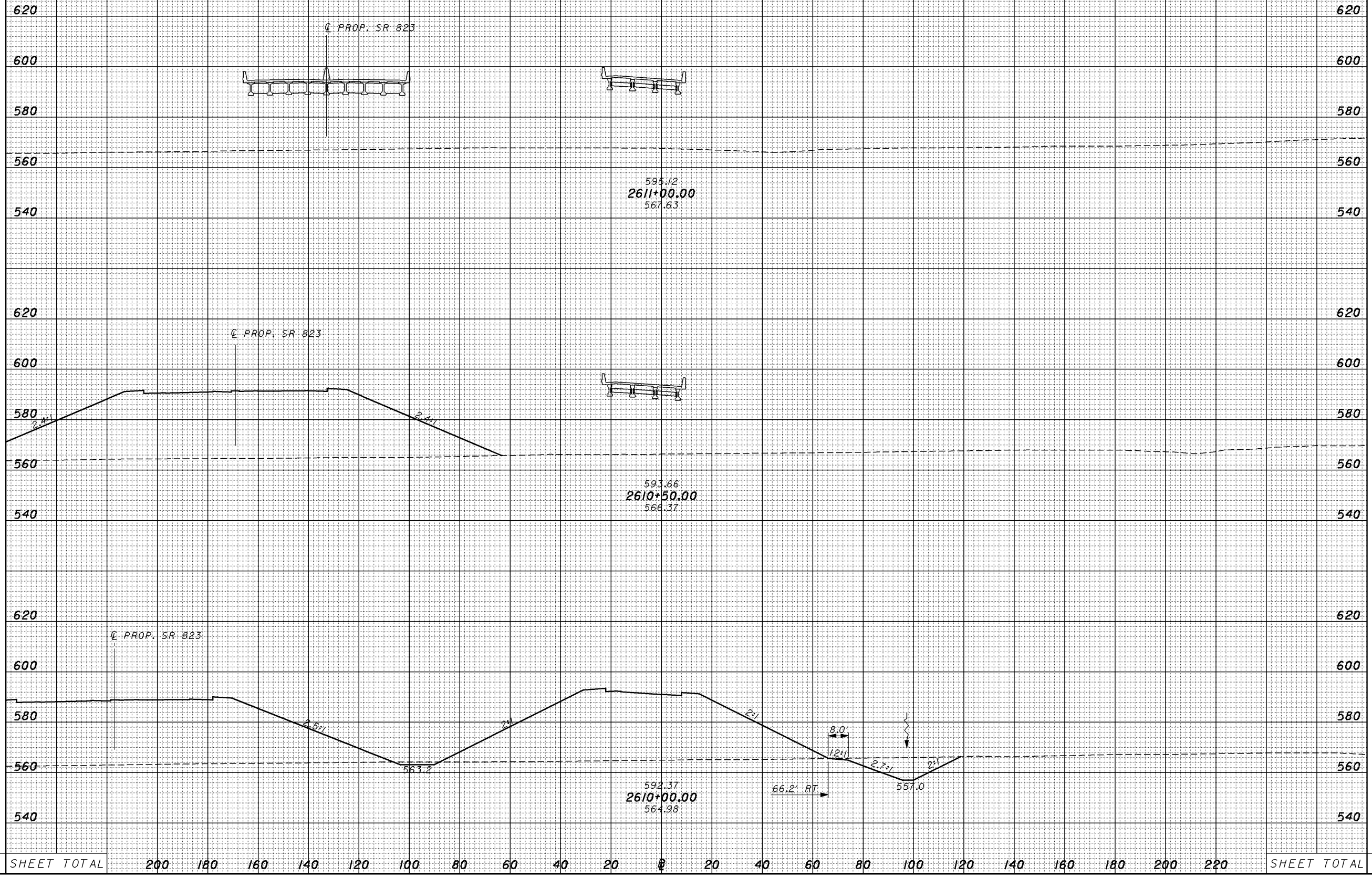
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MME	ADW

CROSS SECTIONS - US 23/ SR 823 INTERCHANGE RAMP B
 STA. 2610+00.00 TO STA. 2611+00.00

SCI-823-10.13

591



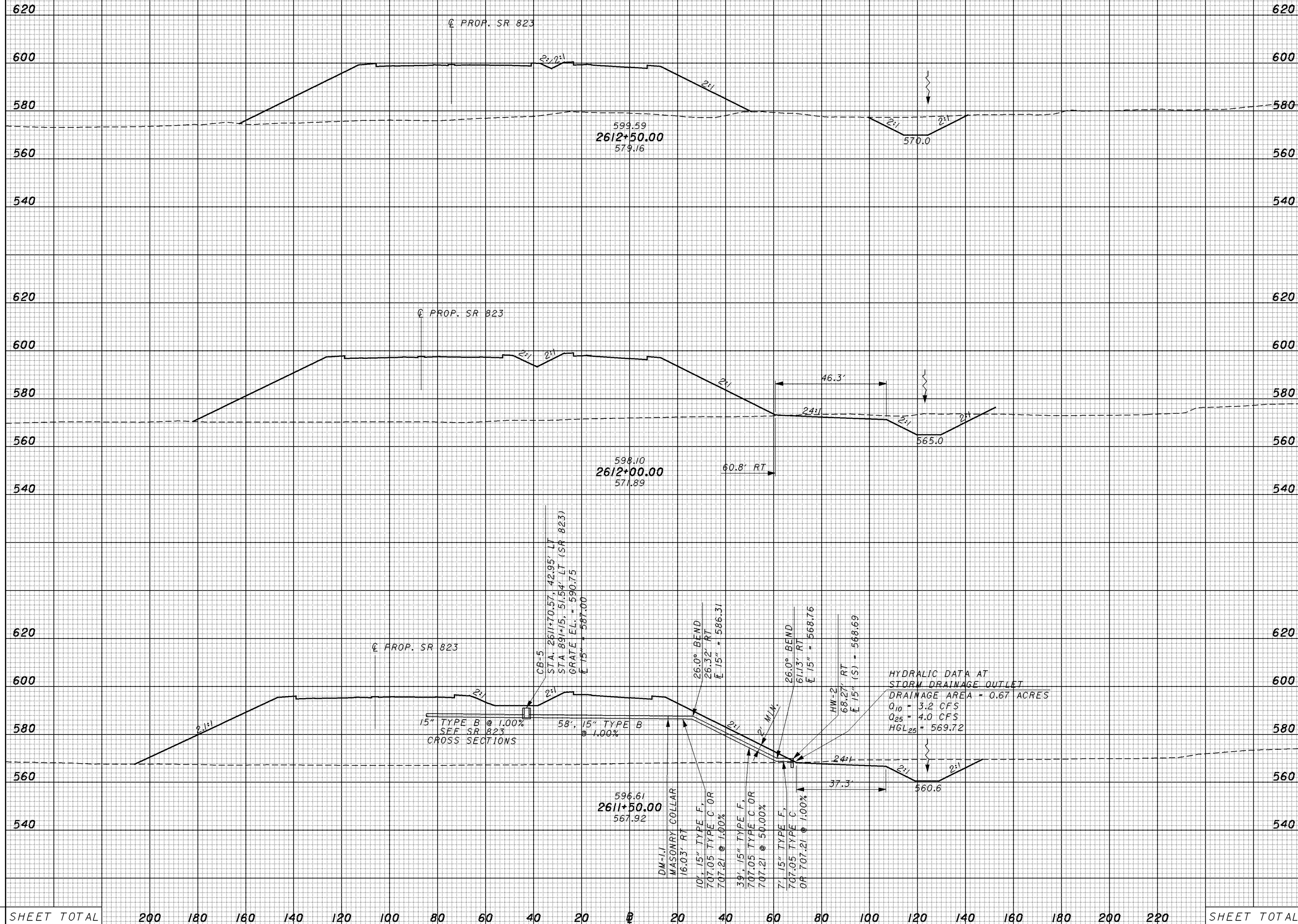
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meiben 1945xs36_ch.dgn

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME
CHECKED ADW



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

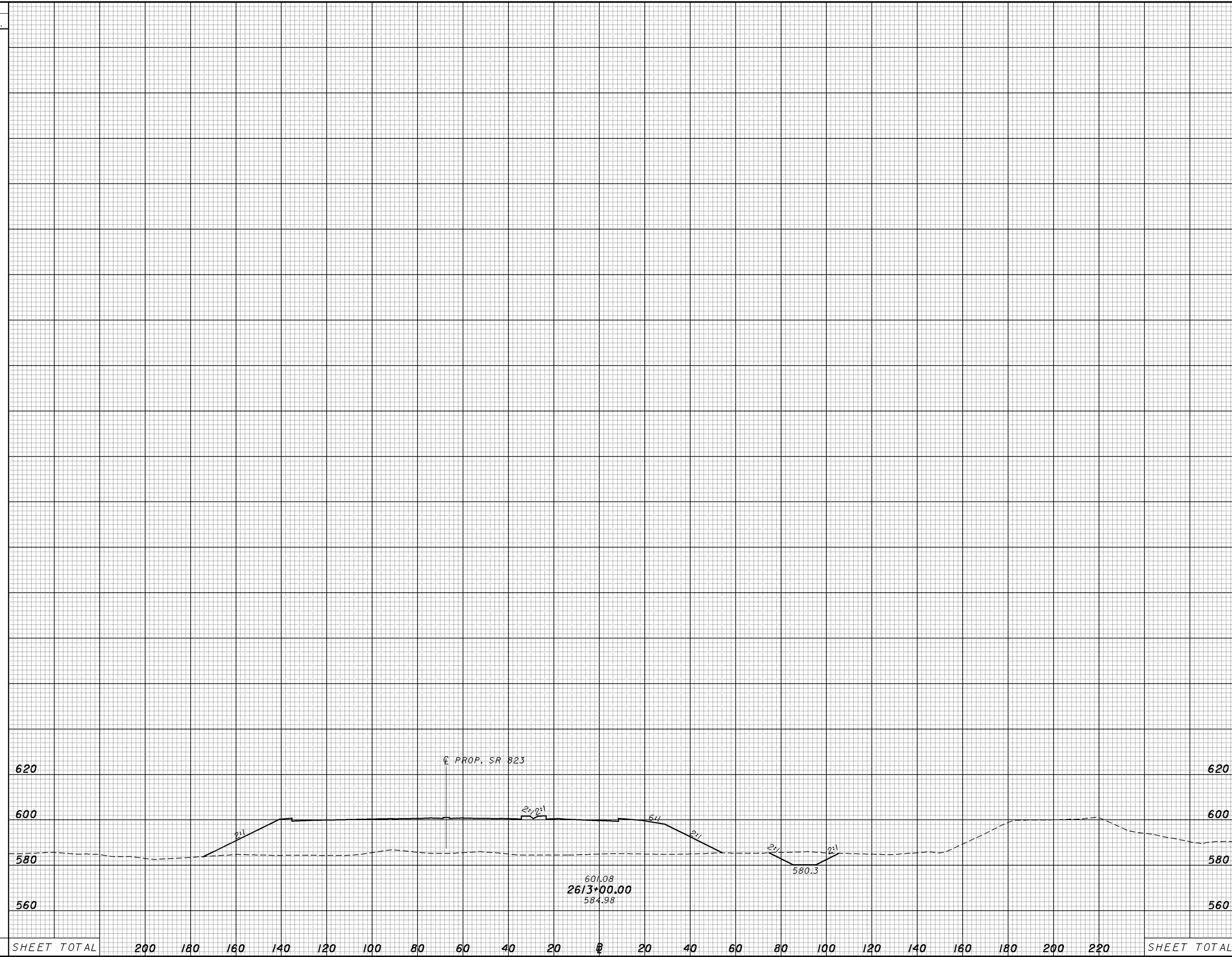
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STA. 2611+50.00 TO STA. 2612+50.00

SCI-823-10.13

meiben
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SEEDING

END WIDTH SO. YDS.



END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME
CHECKED ADW

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP B
STA. 2613+00.00

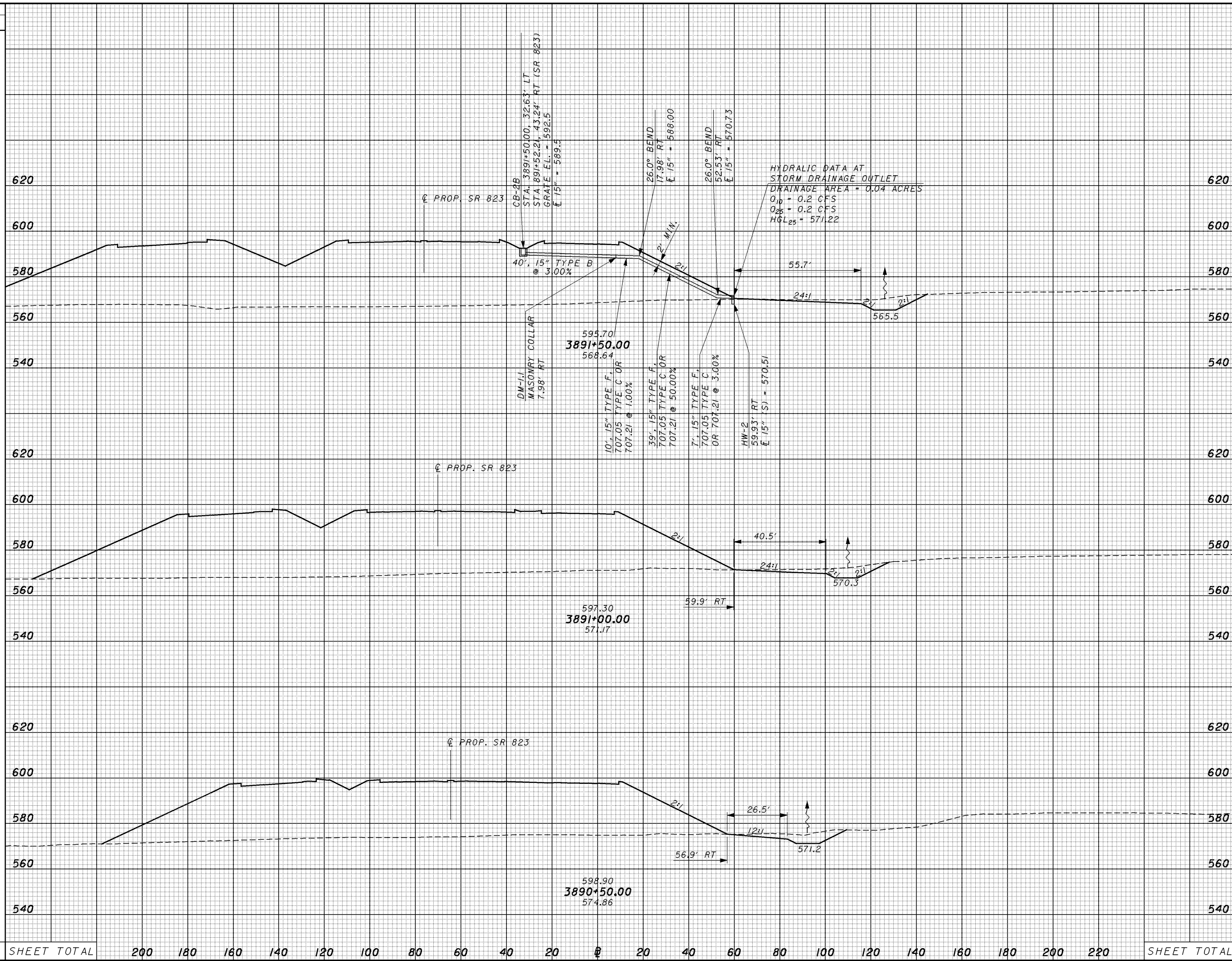
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593

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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL
CALCULATED		CHECKED	
MME		ADW	



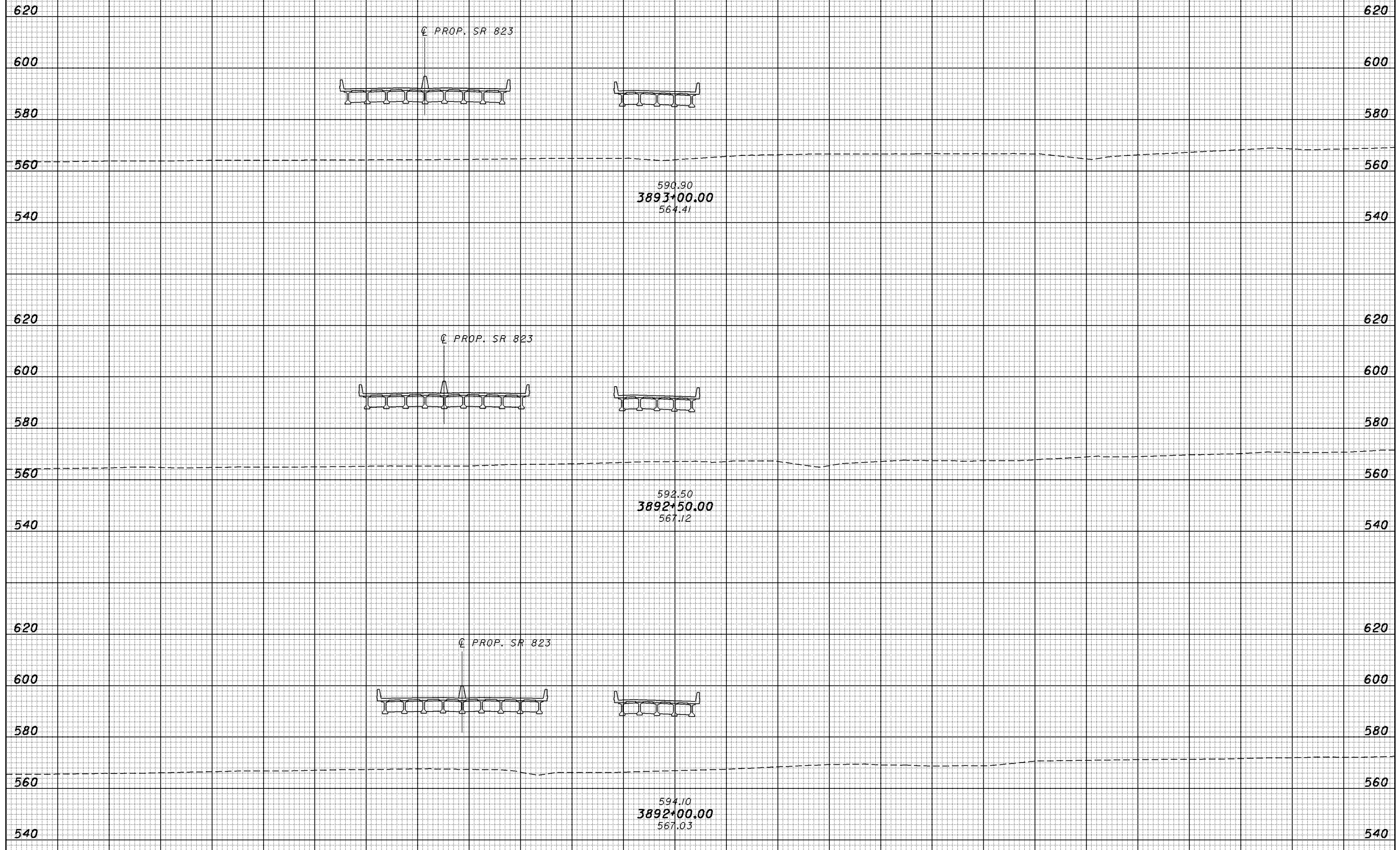
CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
STA. 3890+50.00 TO STA. 3891+50.00

SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED MME	CHECKED ADW
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CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
STA. 3892+00.00 TO STA. 3893+00.00

SCI-823-10.13

595

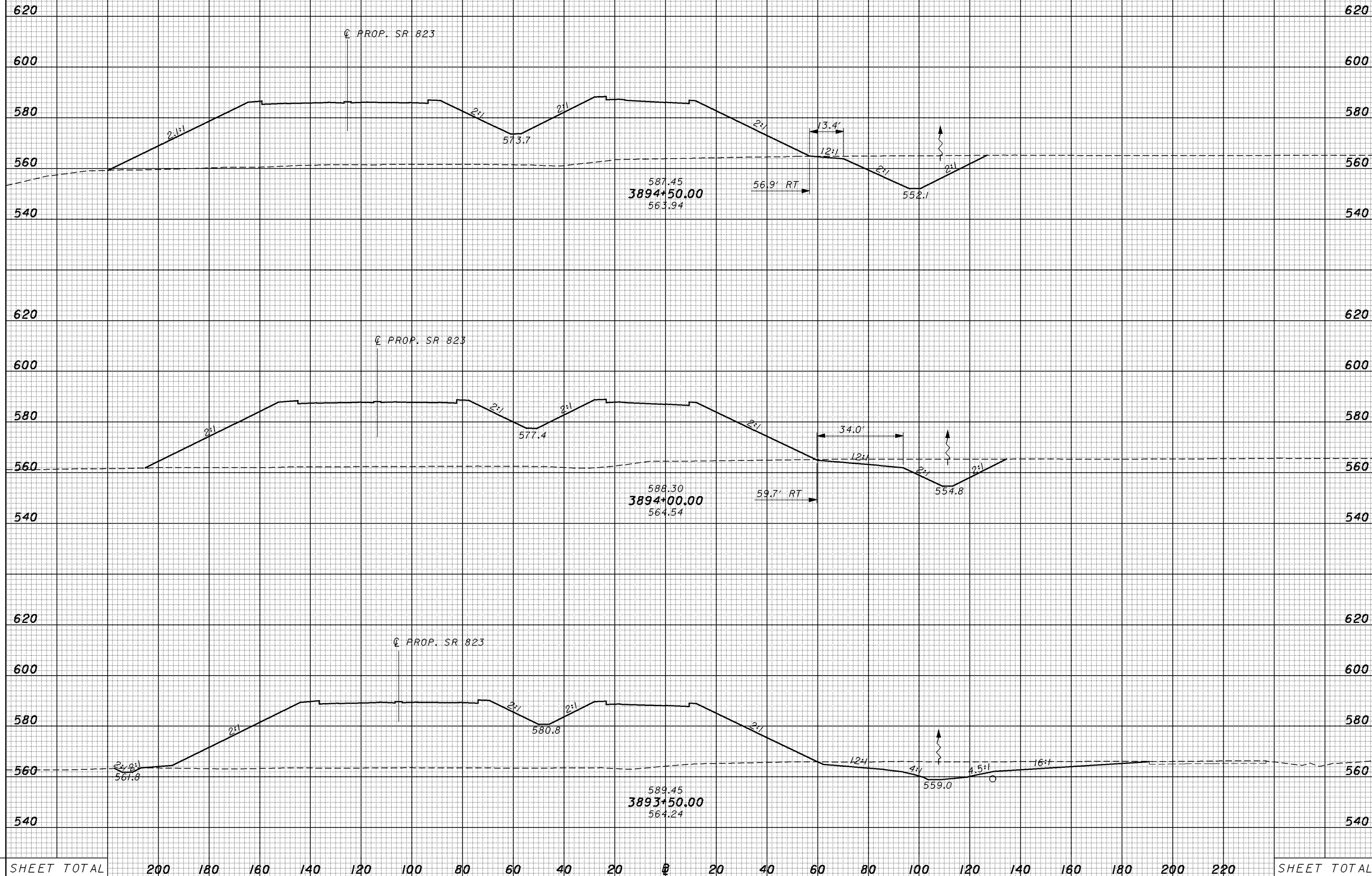
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SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

11/23/2007 9:27 AM
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meiben 1945xs403_ch.dgn



CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
STA. 3893+50.00 TO STA. 3894+50.00

SCI-823-10.13

596

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

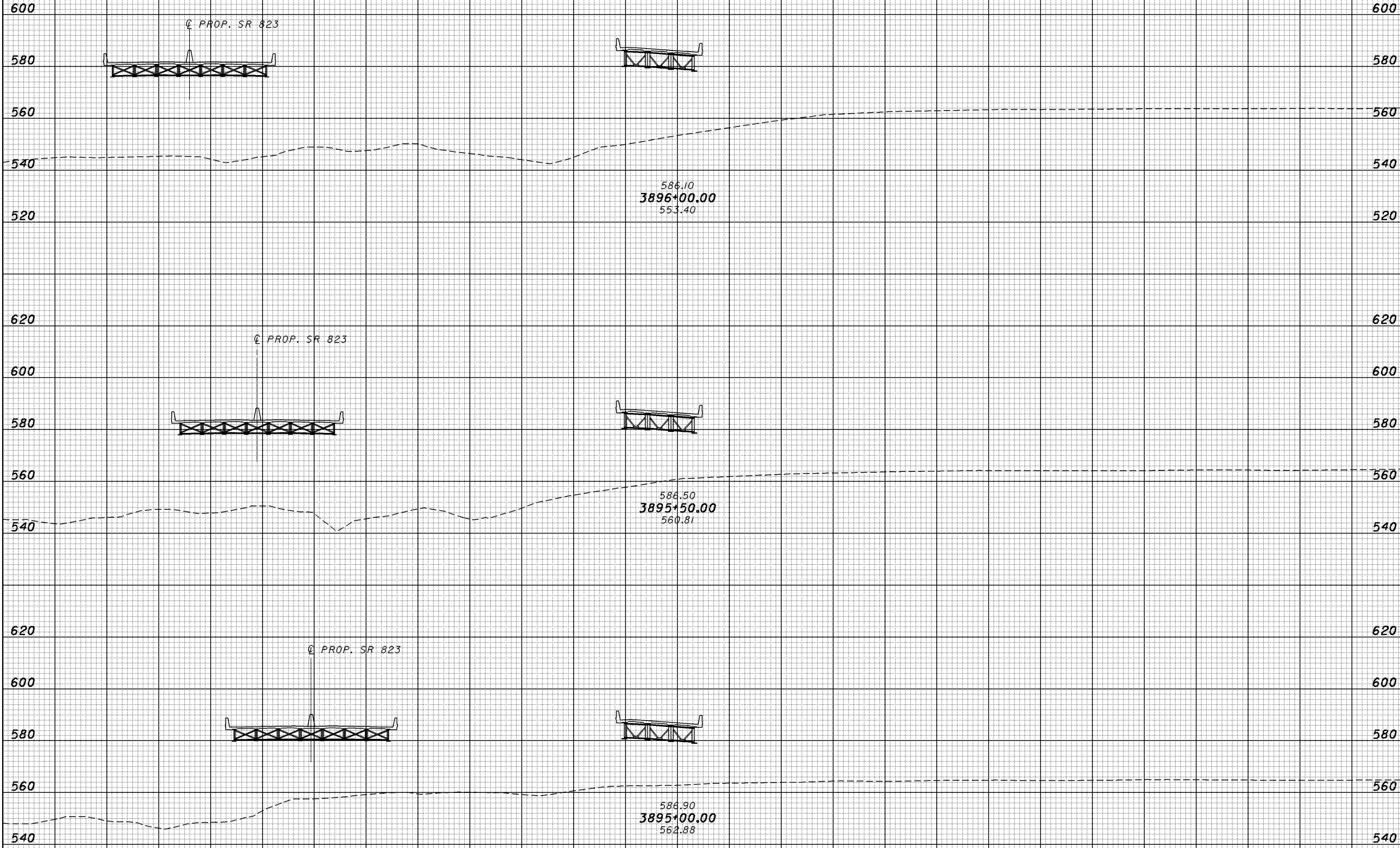
SEEDING

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MME
CHECKED
ADW

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
STA. 3895+00.00 TO STA. 3896+00.00

SCI-823-10.13



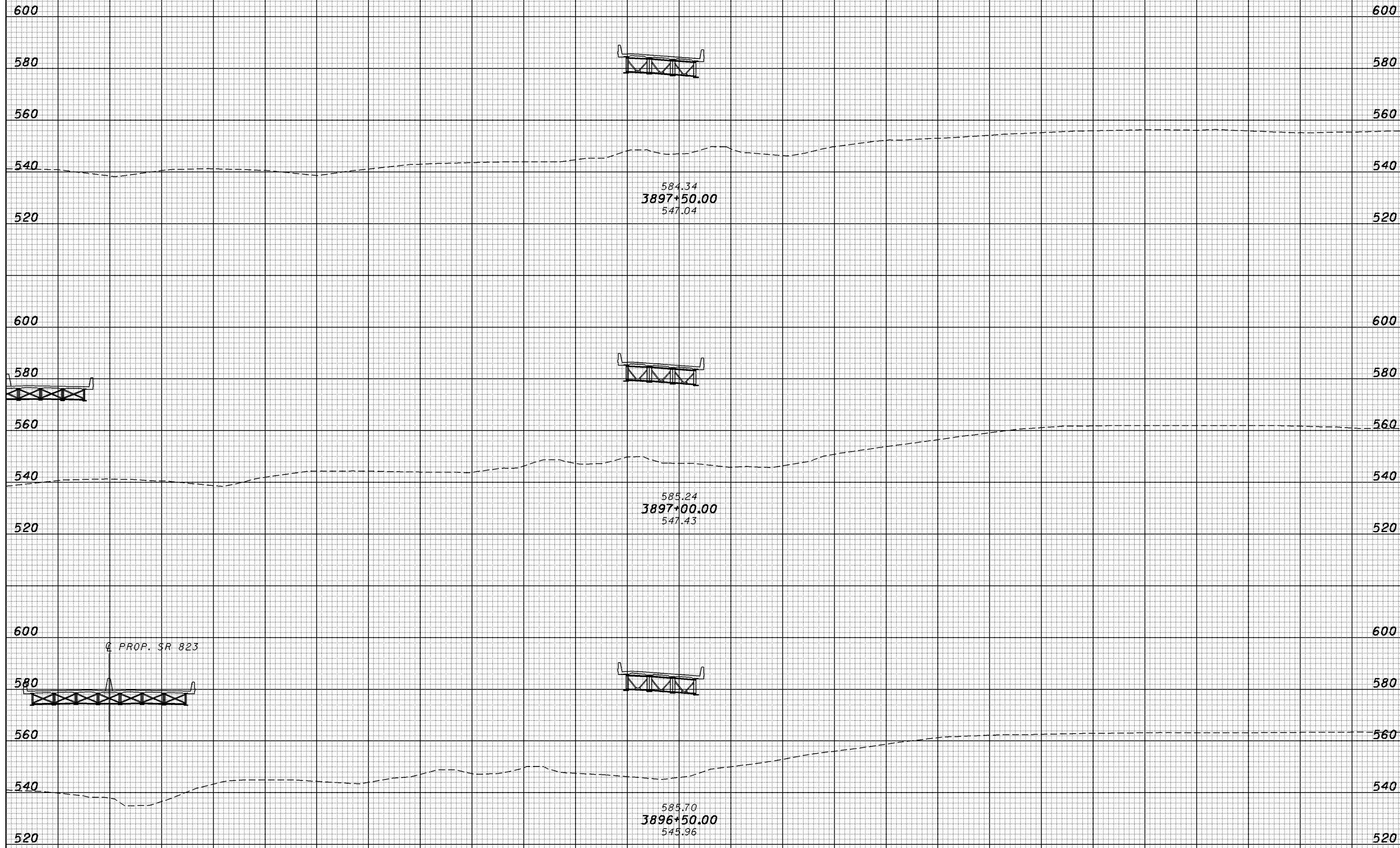
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 @ 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

11/23/2007 9:27 AM \\aries\plansets-400_sci823_half.pen

meiben 1945xs404_ch.dgn

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME
CHECKED ADW



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
STA. 3896+50.00 TO STA. 3897+50.00

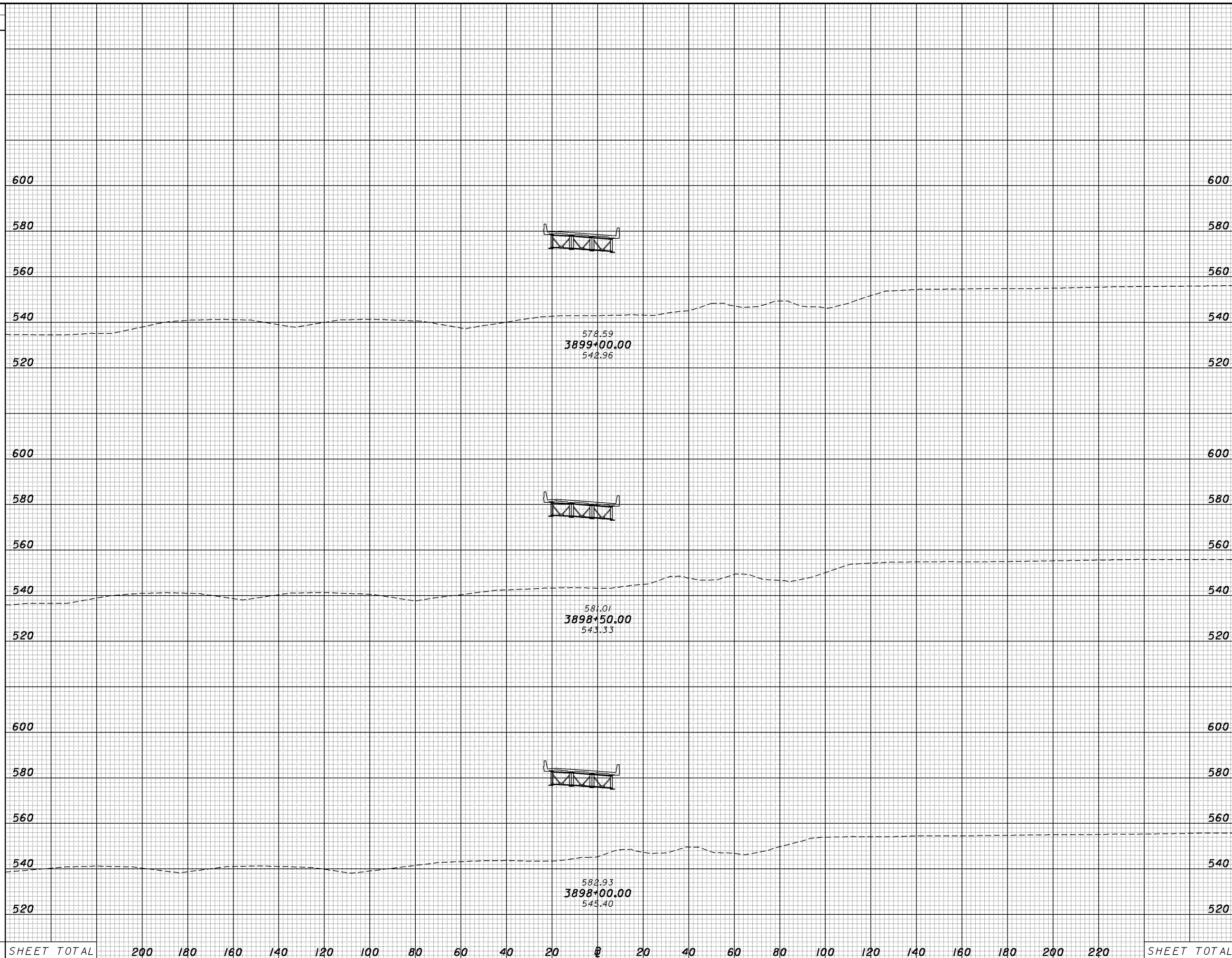
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m\elben 19415xs406_ch.dgn 11/23/2007 9:27 AM \\aries\plansets-400_sci823_half.pen

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MME	ADW



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
STA. 3898+00.00 TO STA. 3899+00.00

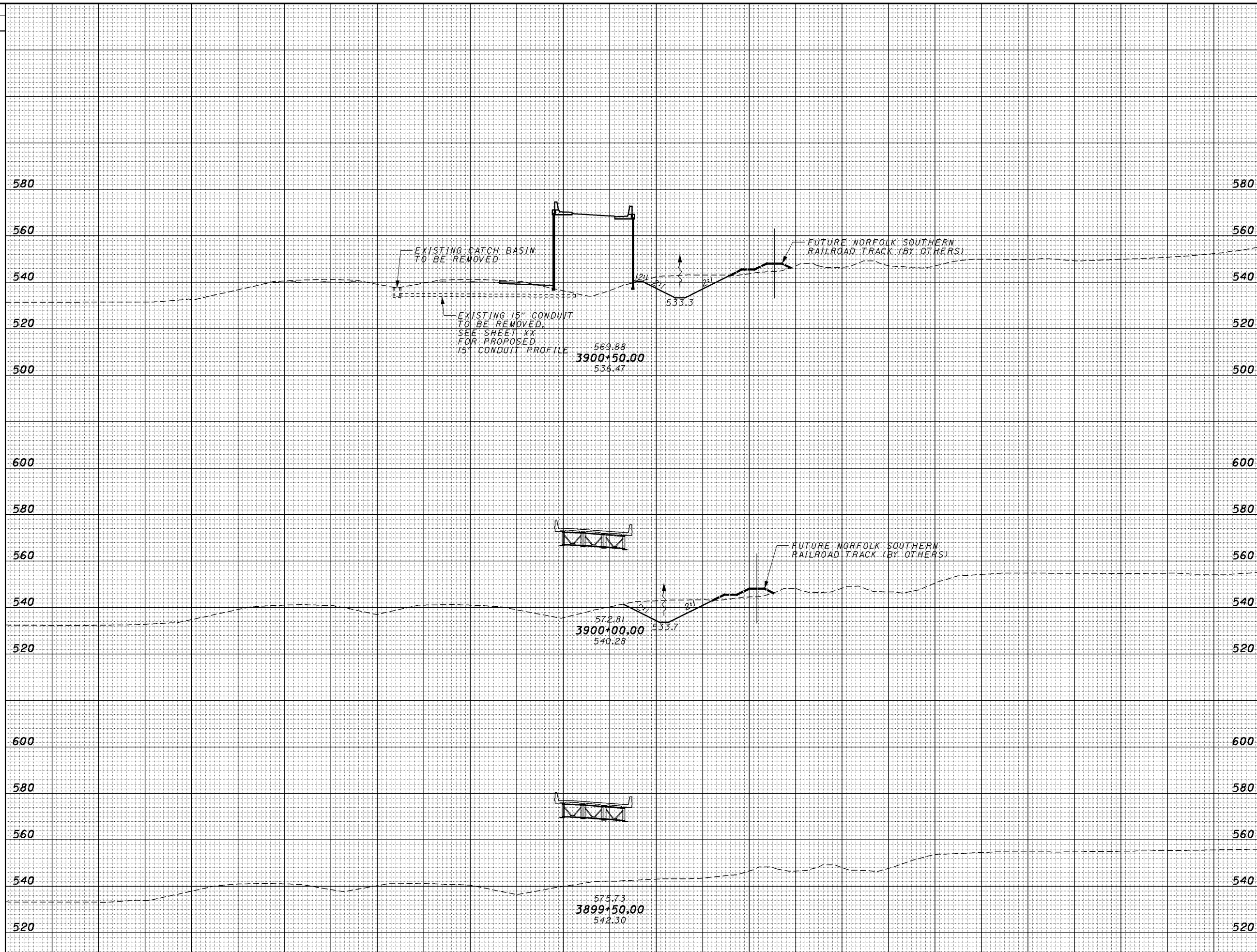
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599

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

11/23/2007 9:28 AM
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meiben 1945xs407_ch.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
STA. 3899+50.00 TO STA. 3900+50.00

SCI-823-10.13

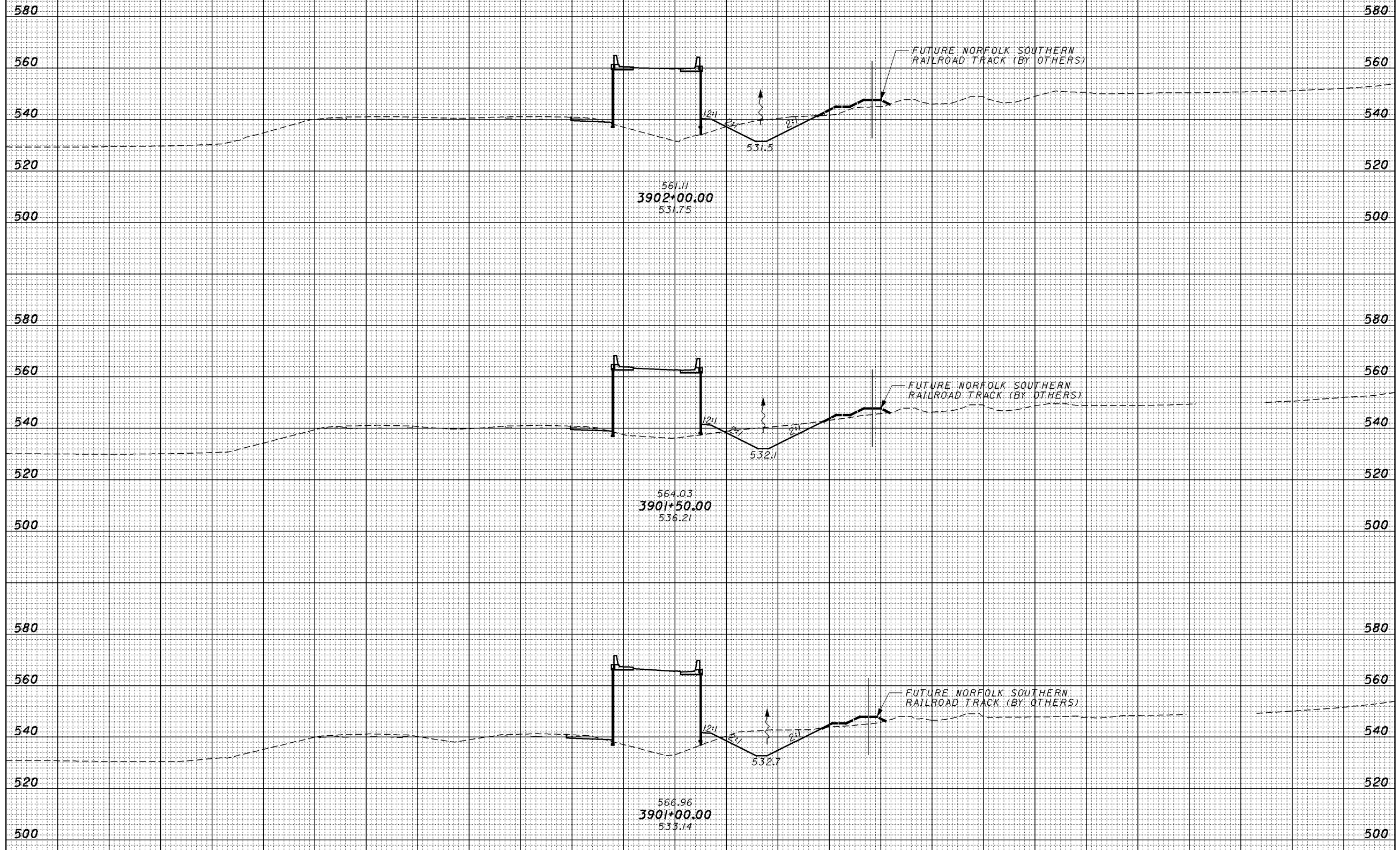
600

SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED MME
 CHECKED ADW
CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
STA. 3901+00.00 TO STA. 3902+00.00

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 melben 19415xs408_ch.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

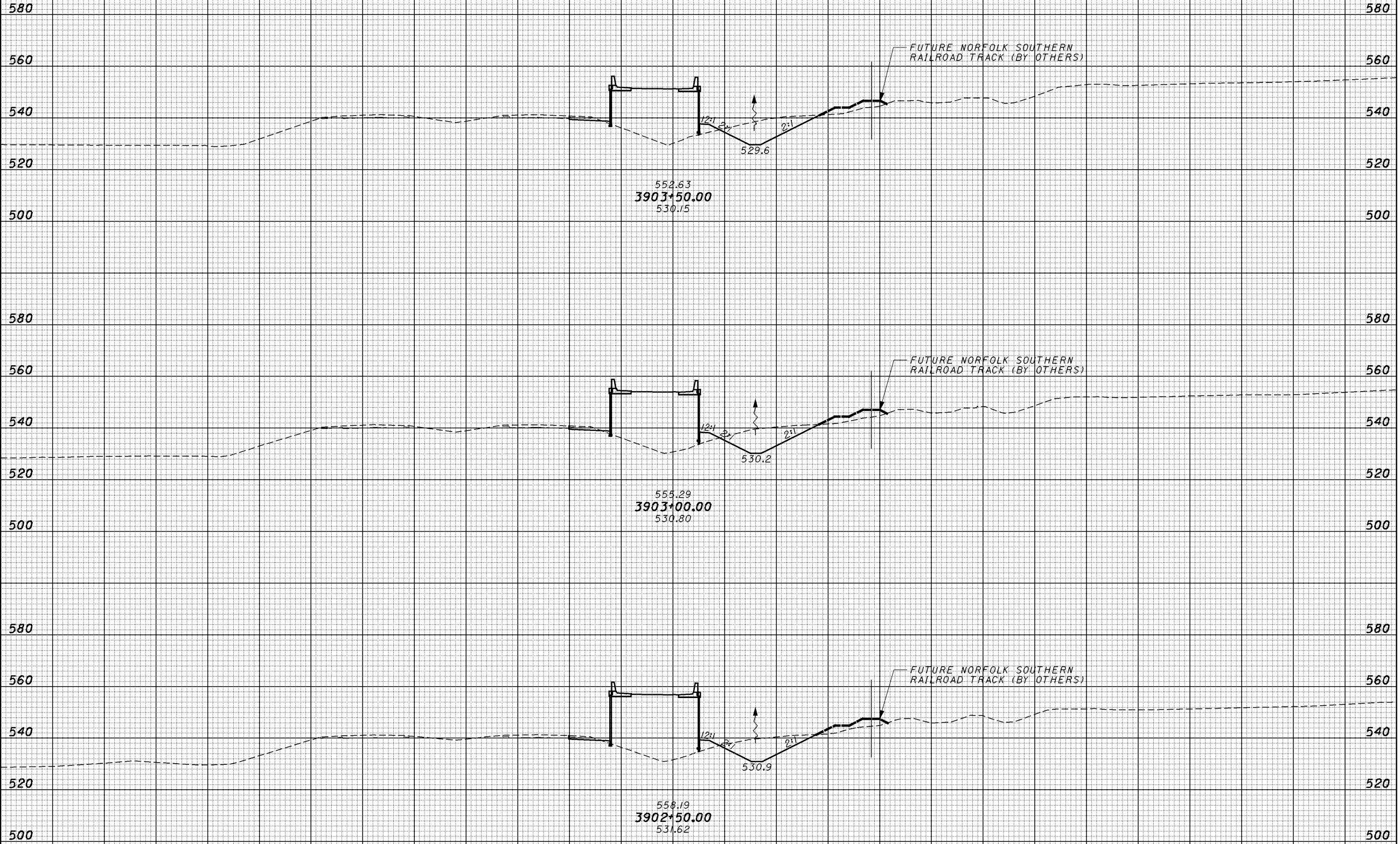
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601

meiben 11/23/2007 9:28 AM \\aries\plansets-400_sci823_half.pen

SEEDING
END WIDTH SO. YDS.

END AREA
CUT FILL
VOLUME
CUT FILL
CALCULATED
CHECKED
MME
ADW



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

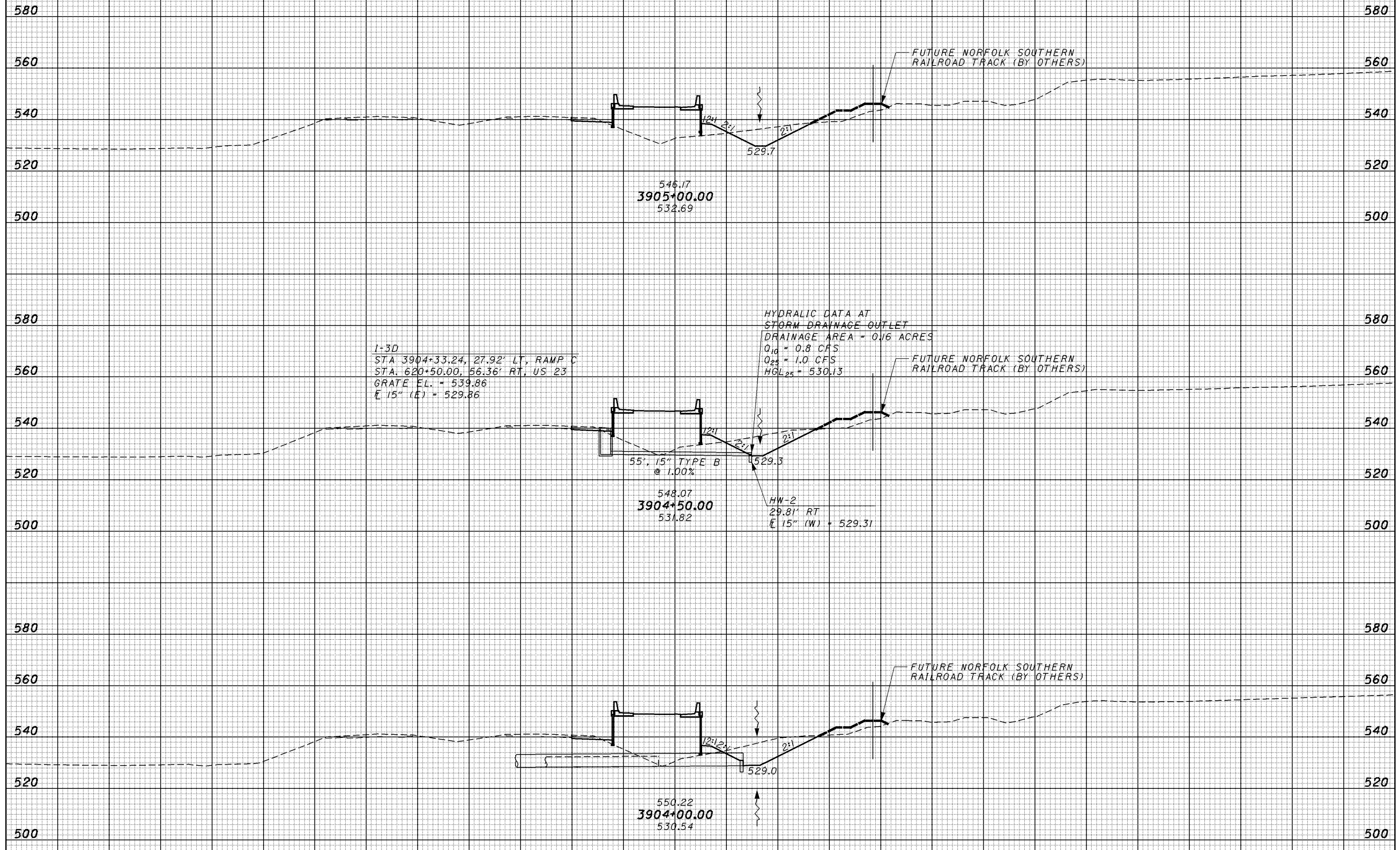
CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
STA. 3902+50.00 TO STA. 3903+50.00

SCI-823-10.13

602

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
STA. 3904+00.00 TO STA. 3905+00.00

SCI-823-10.13

603

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meiben 1945xs40_ch.dgn

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

580 580

560 560

540 540

520 520

500 500

580 580

560 560

540 540

520 520

500 500

580 580

560 560

540 540

520 520

500 500

1-3D
 STA. 3906+47.39, 6.25' RT
 GRATE EL. = 541.62
 E 15' (E) = 531.01

FUTURE NORFOLK SOUTHERN
 RAILROAD TRACK (BY OTHERS)

HW-2
 STA. 3906+32.91, 32.10' RT
 E 15" (W) = 530.78
 23' x 15" TYPE F, 707.05 TYPE C
 OR 707.21 @ 1.00%

542.04
 3906+50.00
 532.89

530.7

543.16
 3906+00.00
 533.44

530.5

544.54
 3905+50.00
 533.17

530.1

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 @ 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

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CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
STA. 3905+50.00 TO STA. 3906+50.00

SCI-823-10.13

604

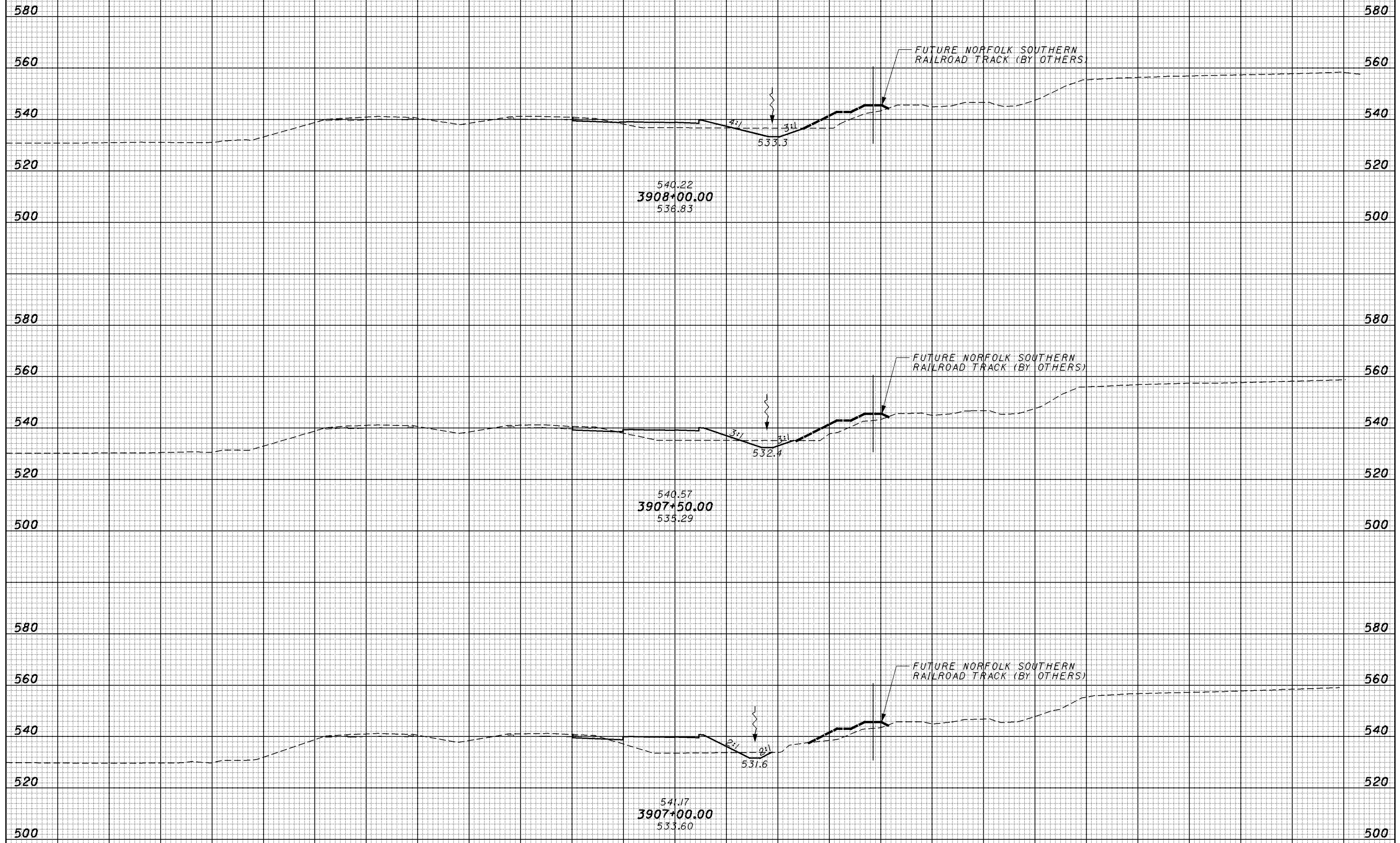
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mellen 11/23/2007 9:29 AM 19415xs412_ch.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

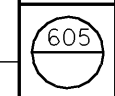
CALCULATED	MME
CHECKED	ADW

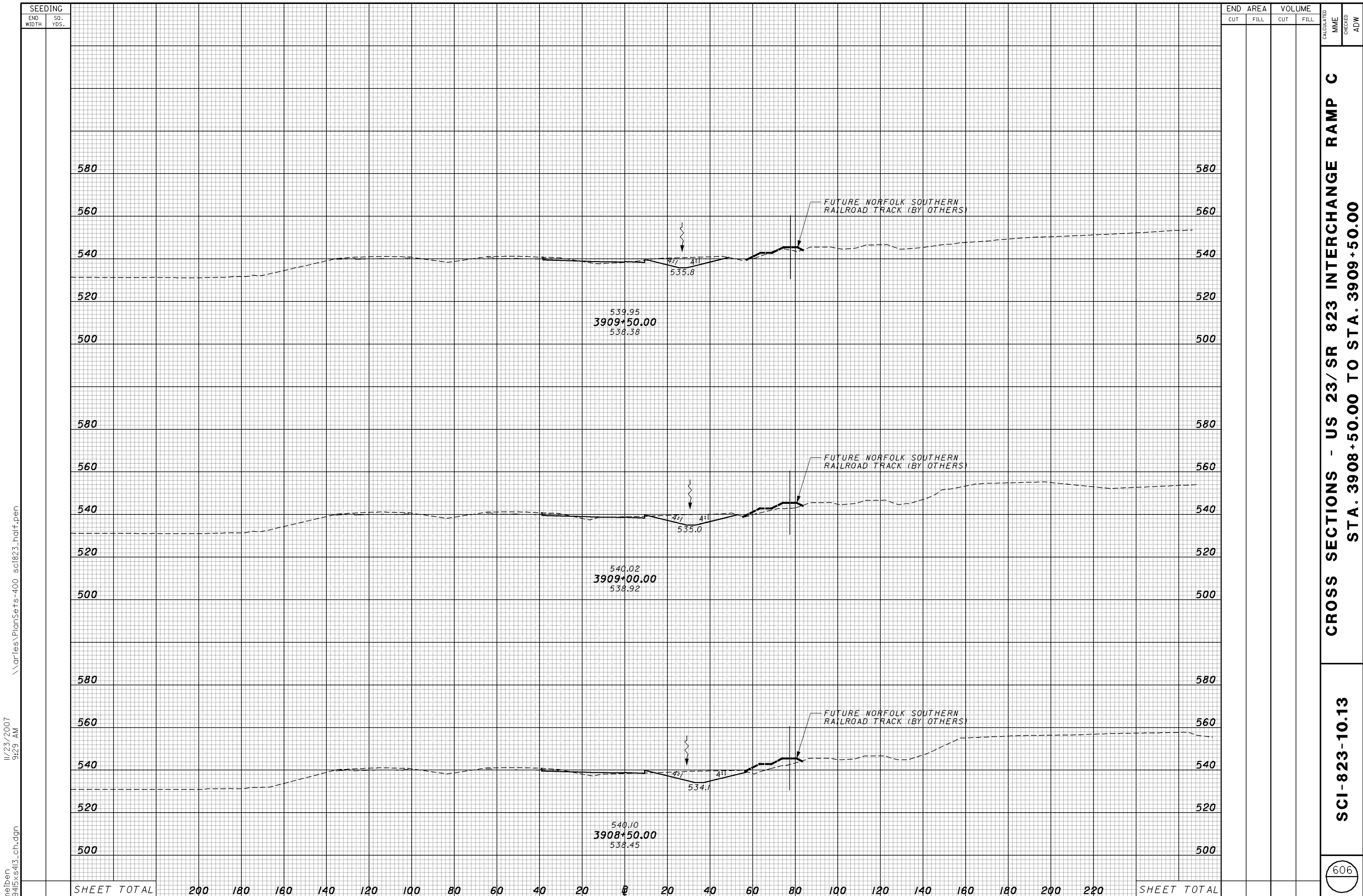


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
 STA. 3907+00.00 TO STA. 3908+00.00

SCI-823-10.13





SEEDING
 END WIDTH SQ. YDS.
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 meiben 19415xs413_ch.dgn

END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
STA. 3908+50.00 TO STA. 3909+50.00

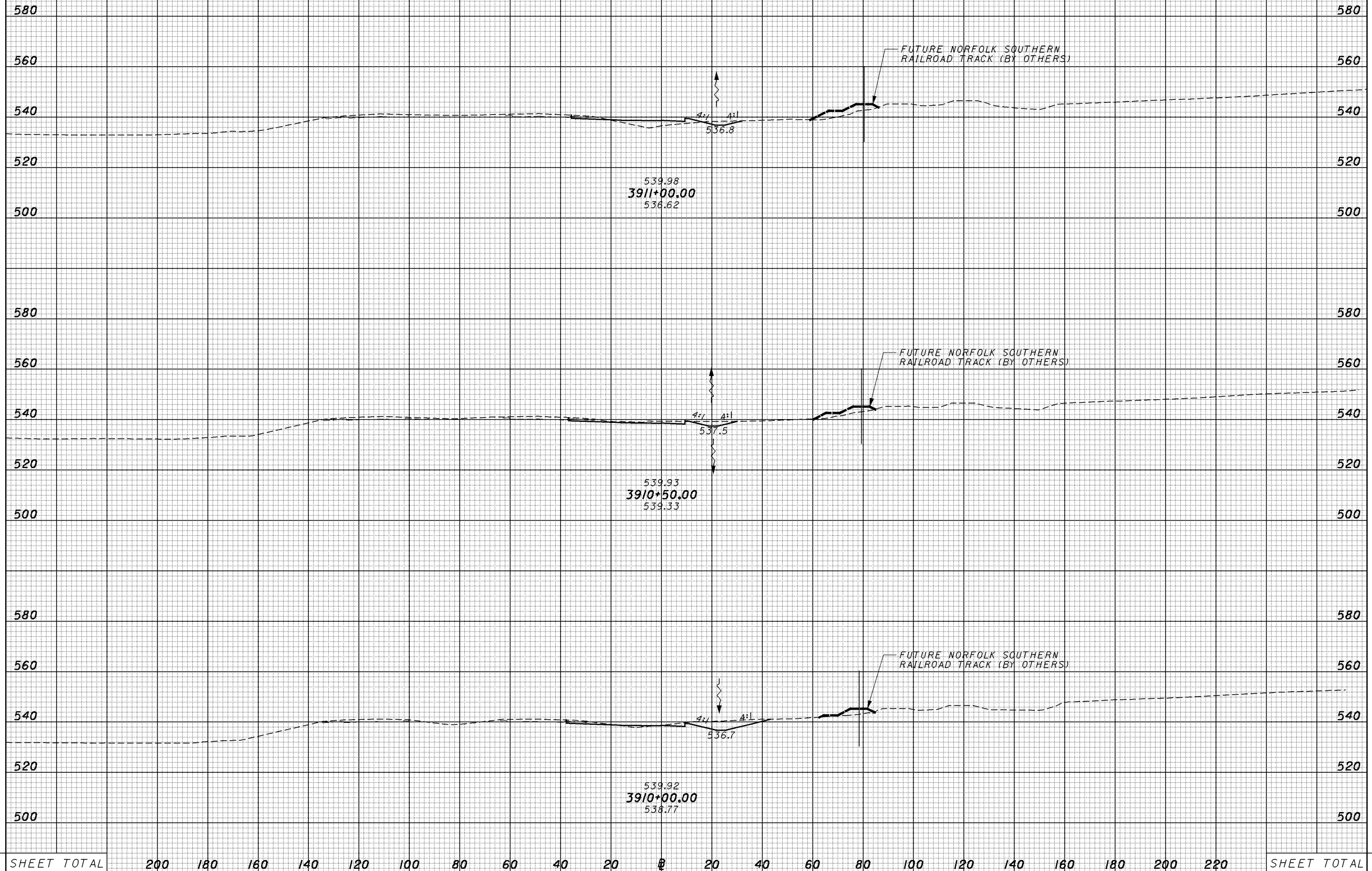
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SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

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SEEDING
 END SQ.
 WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MME	ADW



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
STA. 3910+00.00 TO STA. 3911+00.00

SCI-823-10.13

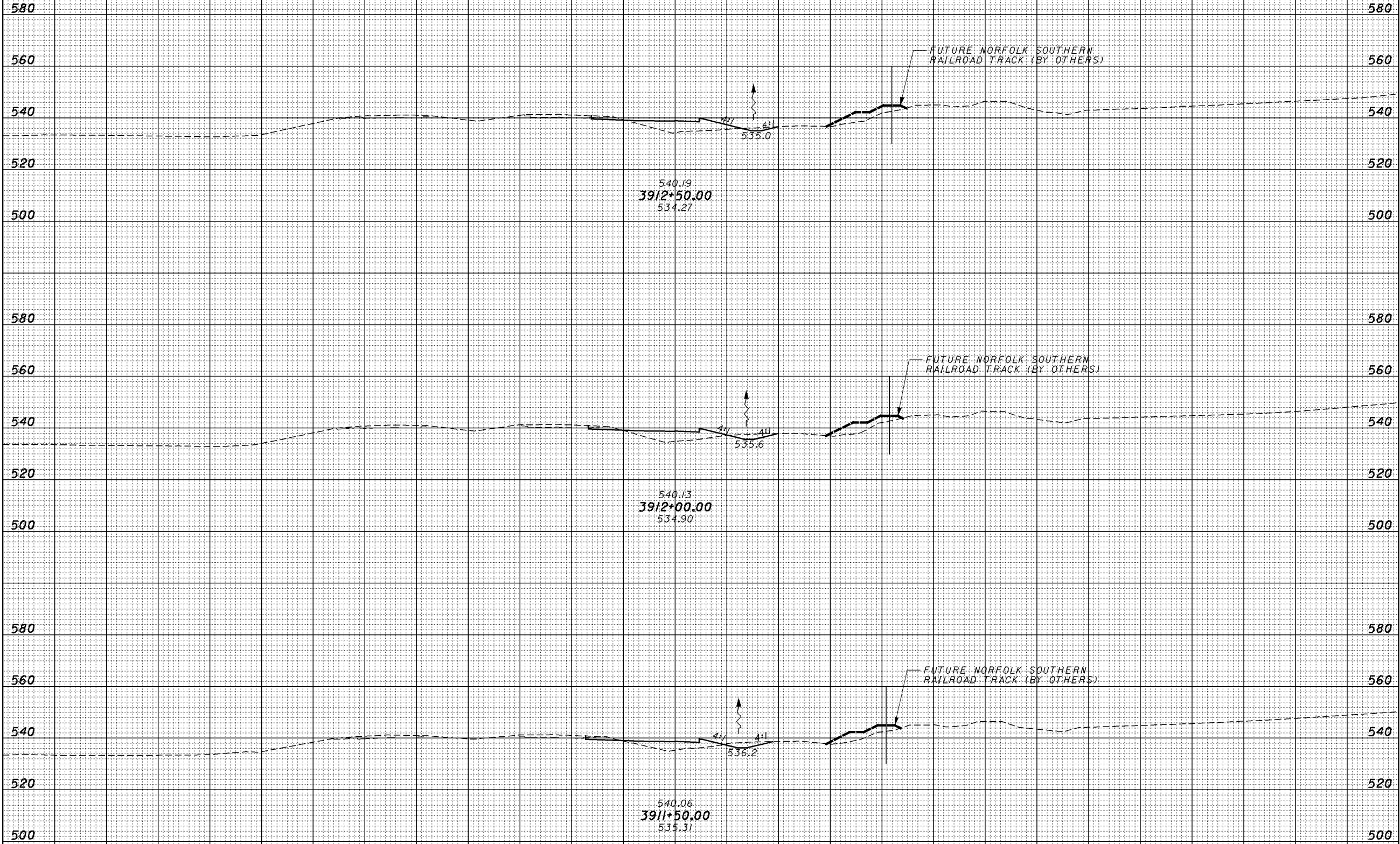
607

SEEDING
END SQ.
WIDTH YDS.

END AREA
CUT FILL
VOLUME
CUT FILL

CALCULATED
MME
CHECKED
ADW

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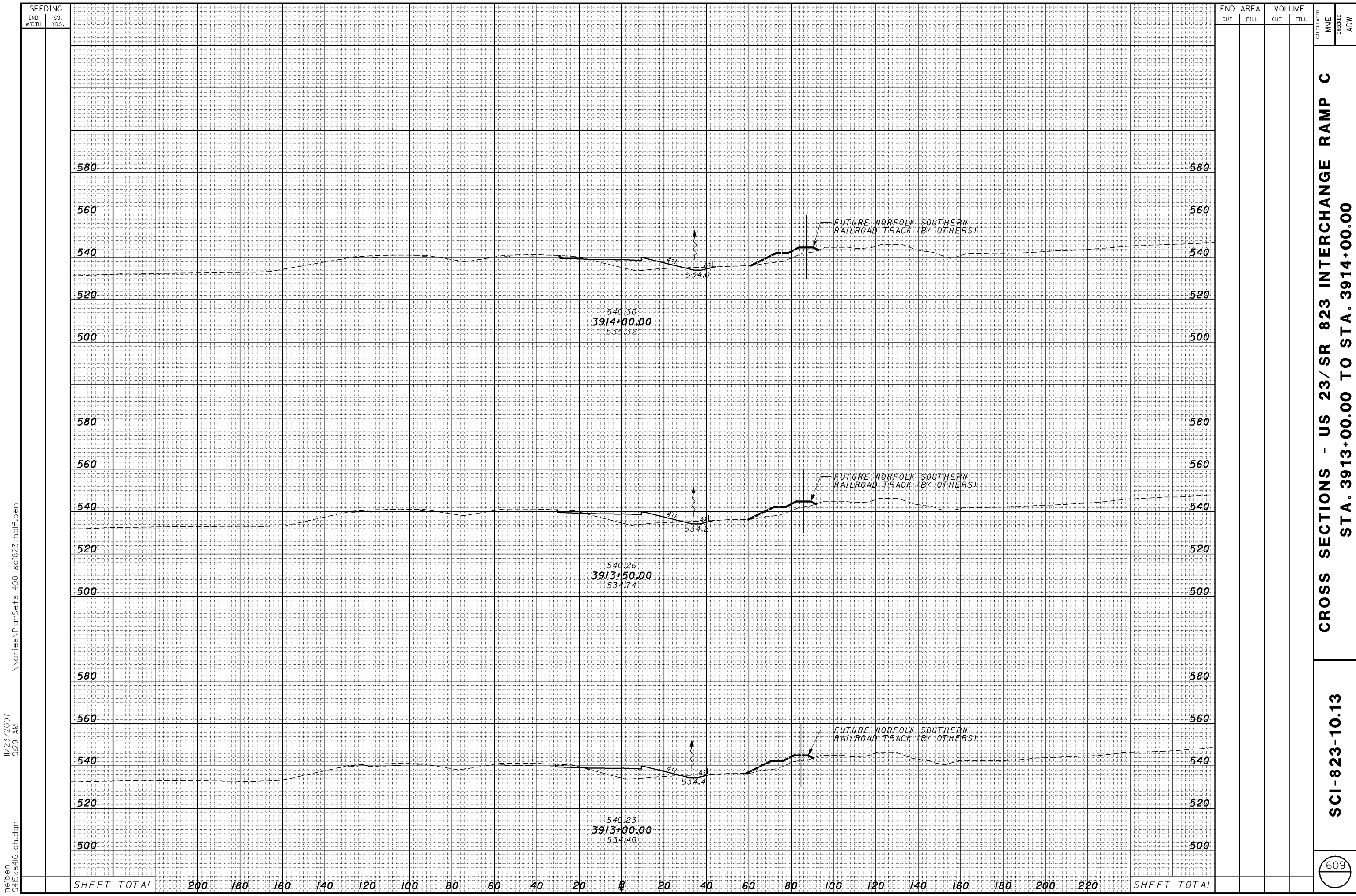


SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
STA. 3911+50.00 TO STA. 3912+50.00

SCI-823-10.13

608



SEEDING

END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME
CHECKED ADW

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
STA. 3913+00.00 TO STA. 3914+00.00

SCI-823-10.13

609

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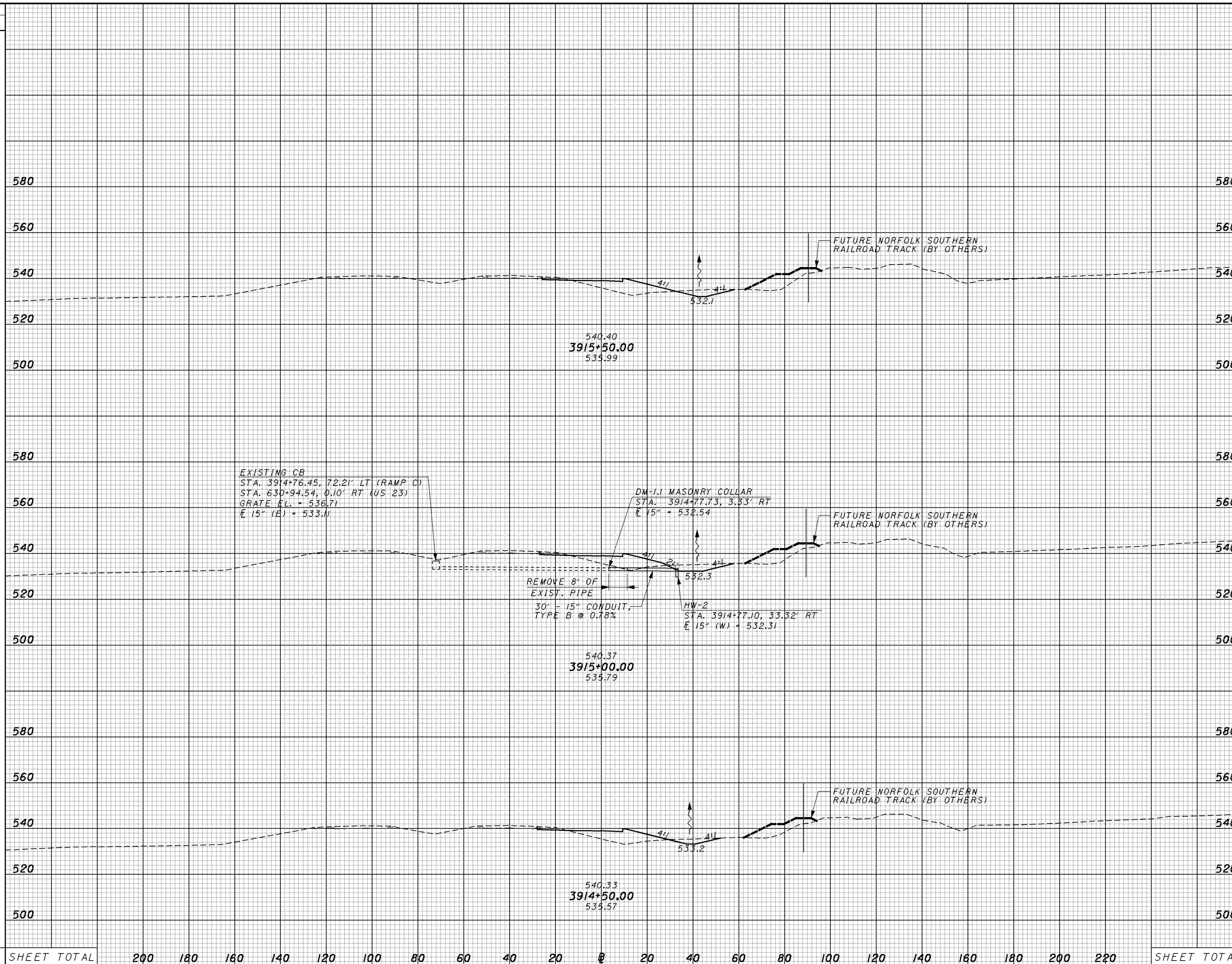
SHEET TOTAL

SHEET TOTAL

200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220

SEEDING
END SO.
WIDTH YDS.

END AREA
CUT FILL
VOLUME
CUT FILL
CALCULATED
CHECKED
MME
ADW

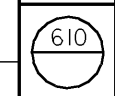


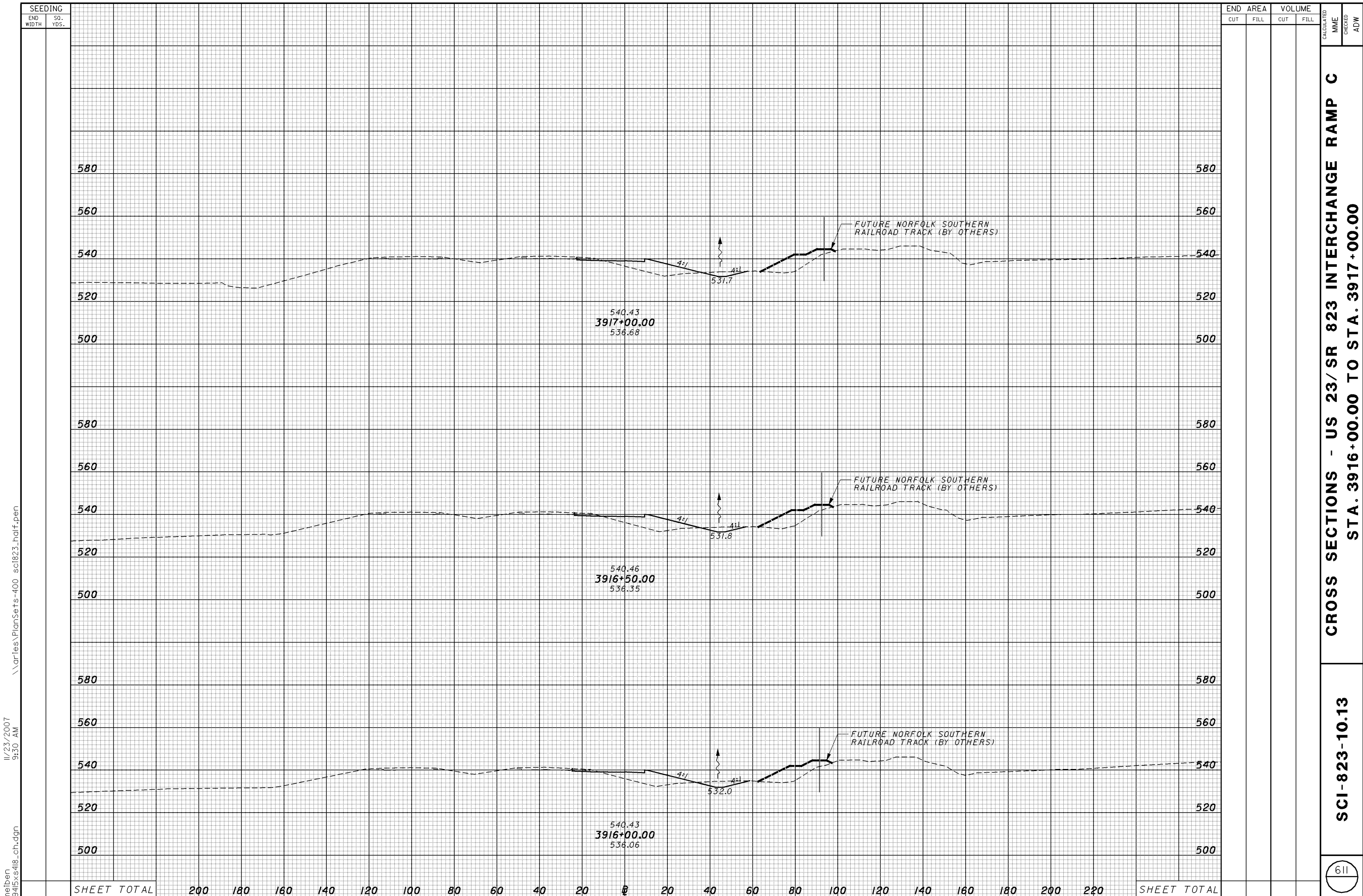
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CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
STA. 3914+50.00 TO STA. 3915+50.00

SCI-823-10.13





SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MME	ADW

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
STA. 3916+00.00 TO STA. 3917+00.00

SCI-823-10.13

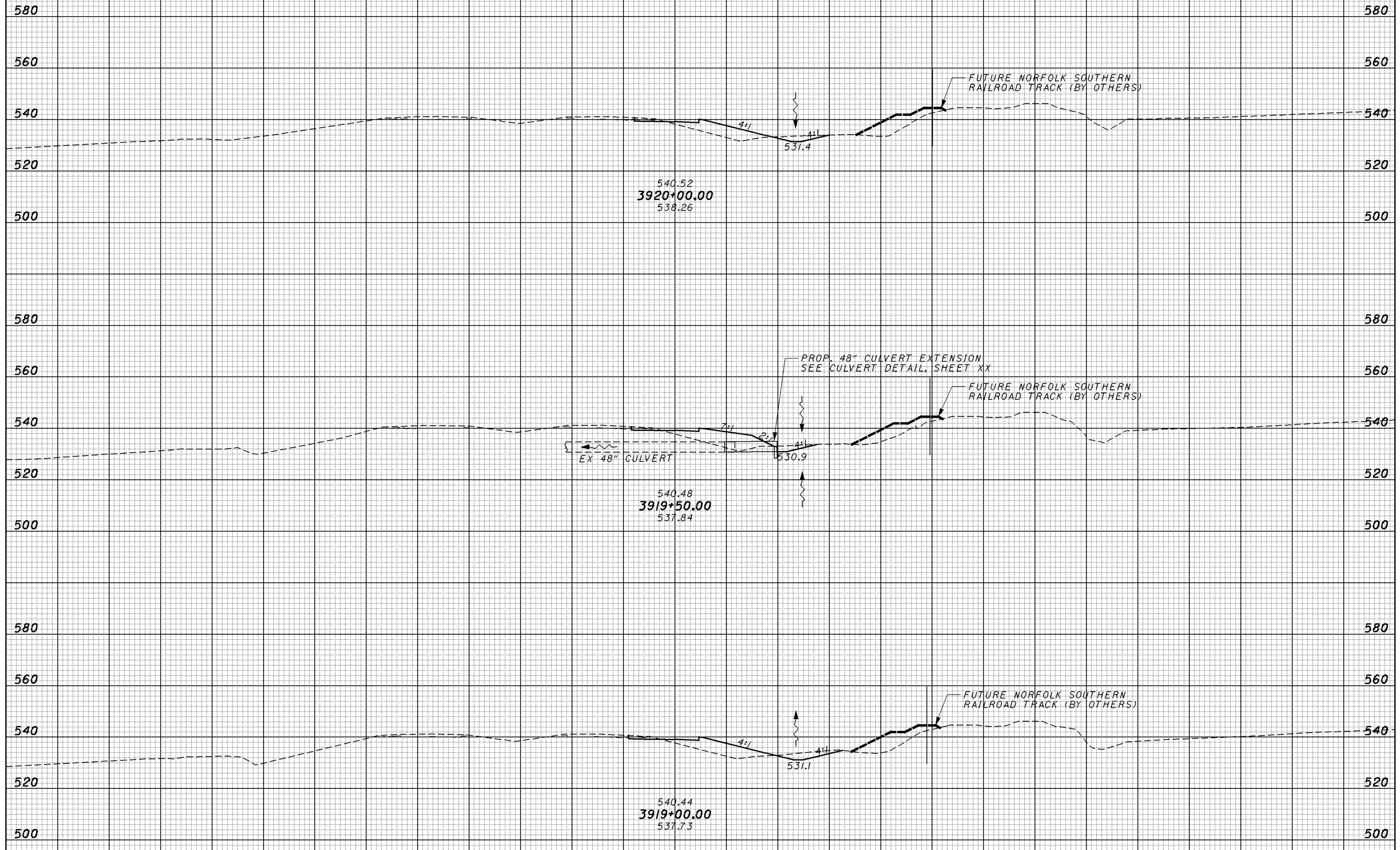
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SEEDING
 END SO.
 WIDTH YDS.

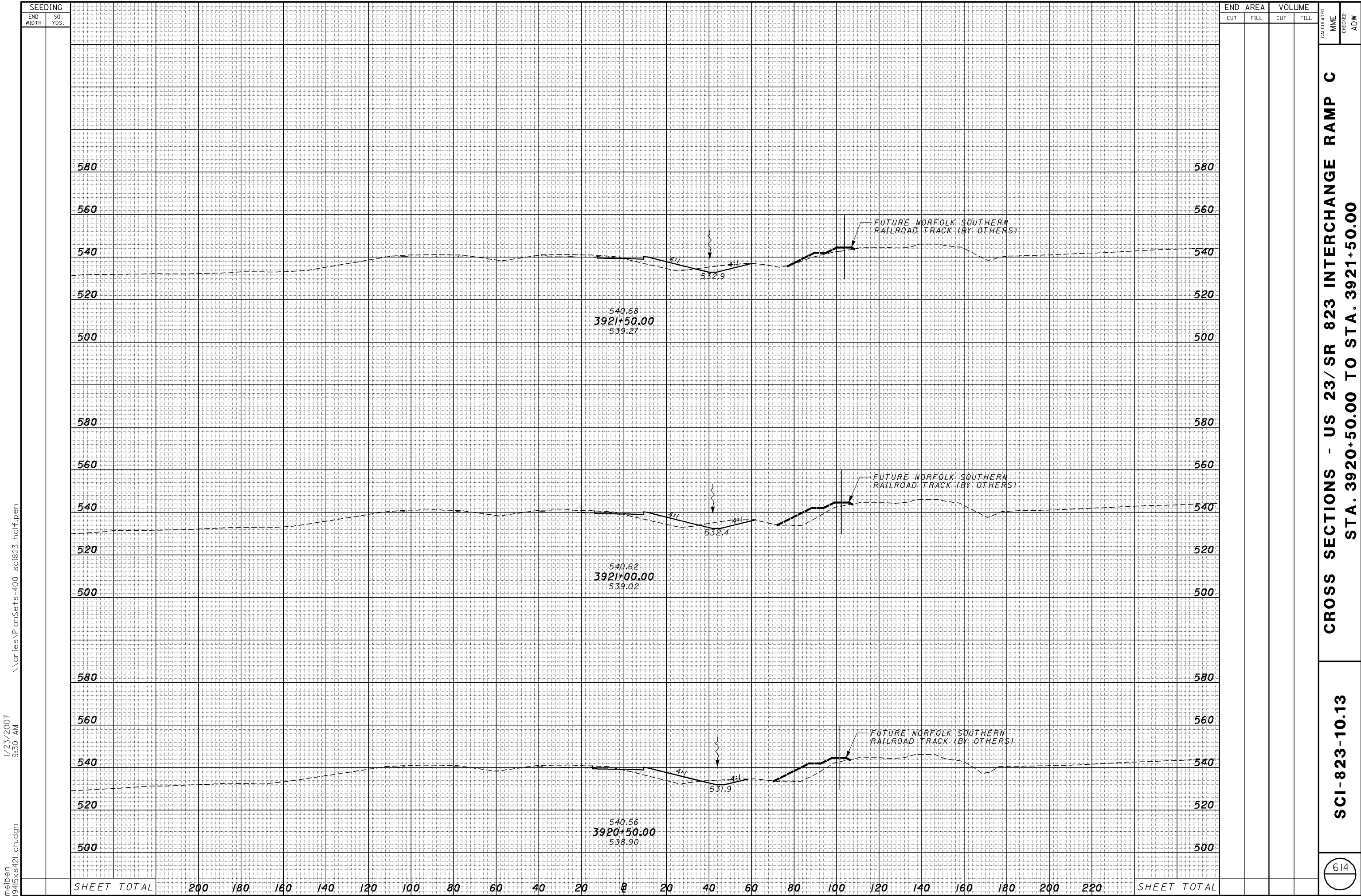
END AREA VOLUME
 CUT FILL CUT FILL
 CALCULATED MME
 CHECKED ADW



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
 STA. 3919+00.00 TO STA. 3920+00.00

SCI-823-10.13



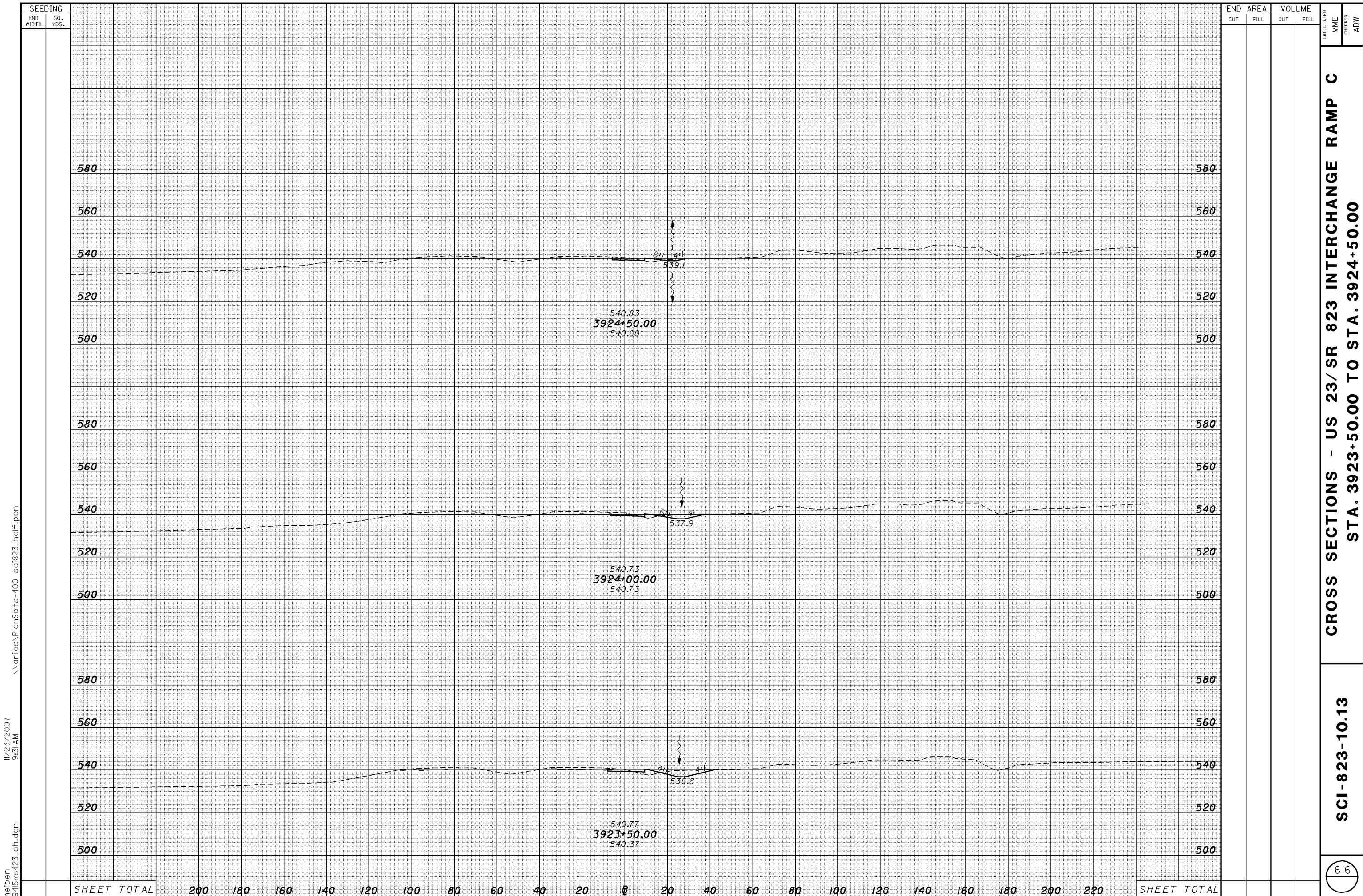
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END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	MME	ADW

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
STA. 3920+50.00 TO STA. 3921+50.00

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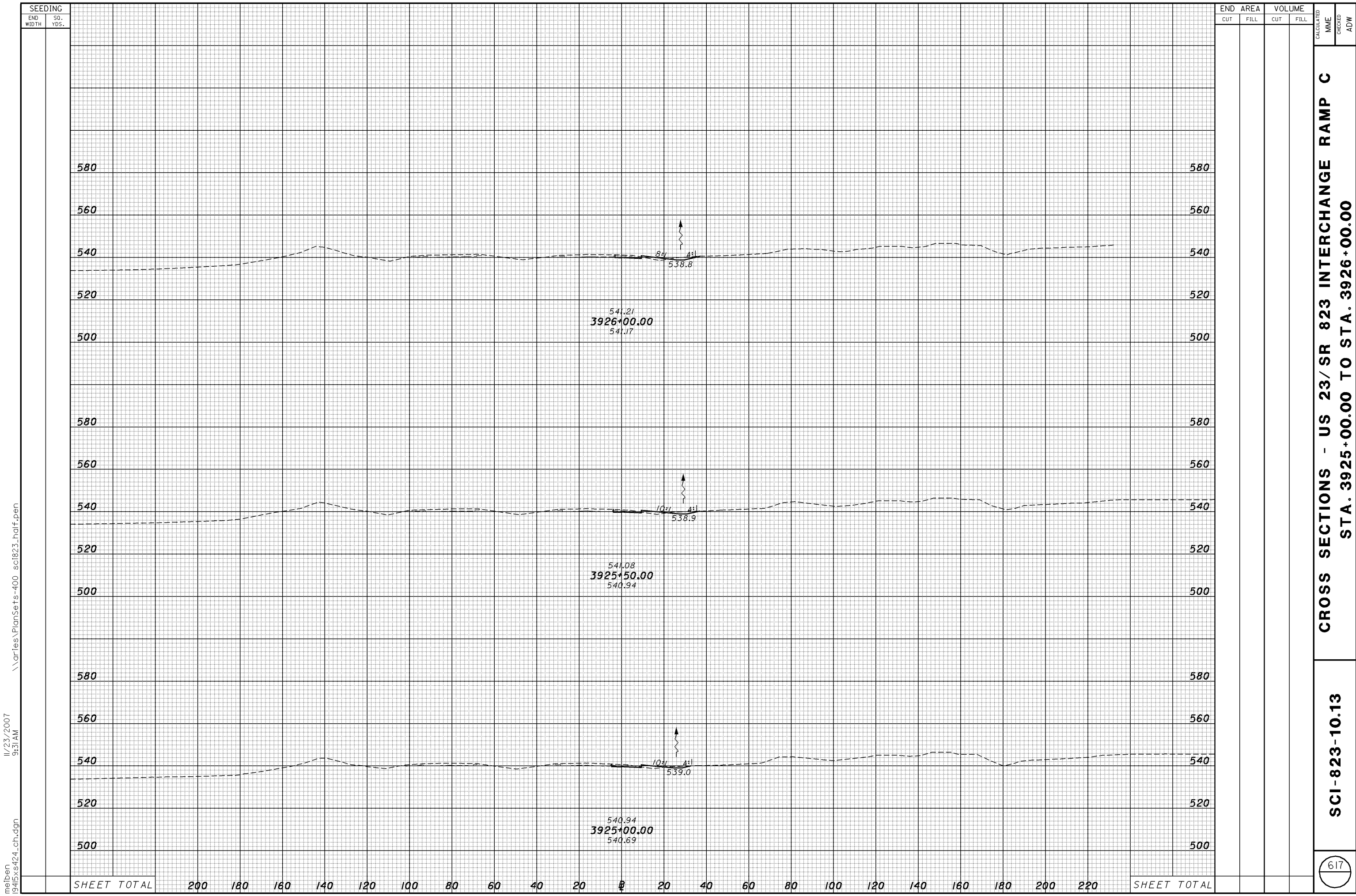
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SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	MME	ADW

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
STA. 3923+50.00 TO STA. 3924+50.00

SCI-823-10.13

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL



SEEDING
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END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
 STA. 3925+00.00 TO STA. 3926+00.00

SCI-823-10.13

617

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

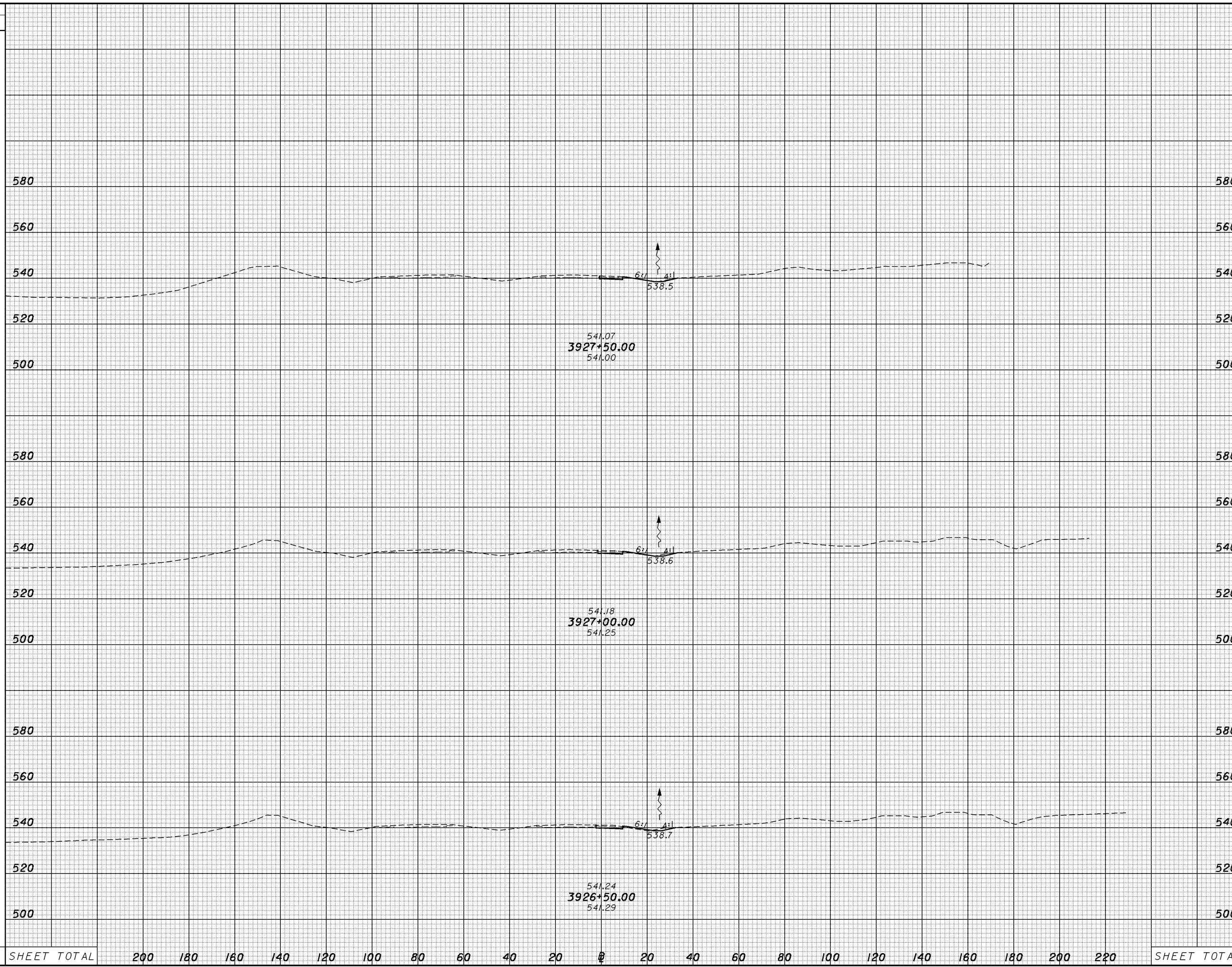
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SEEDING

END WIDTH	SO. YDS.
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SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		

**CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
STA. 3926+50.00 TO STA. 3927+50.00**

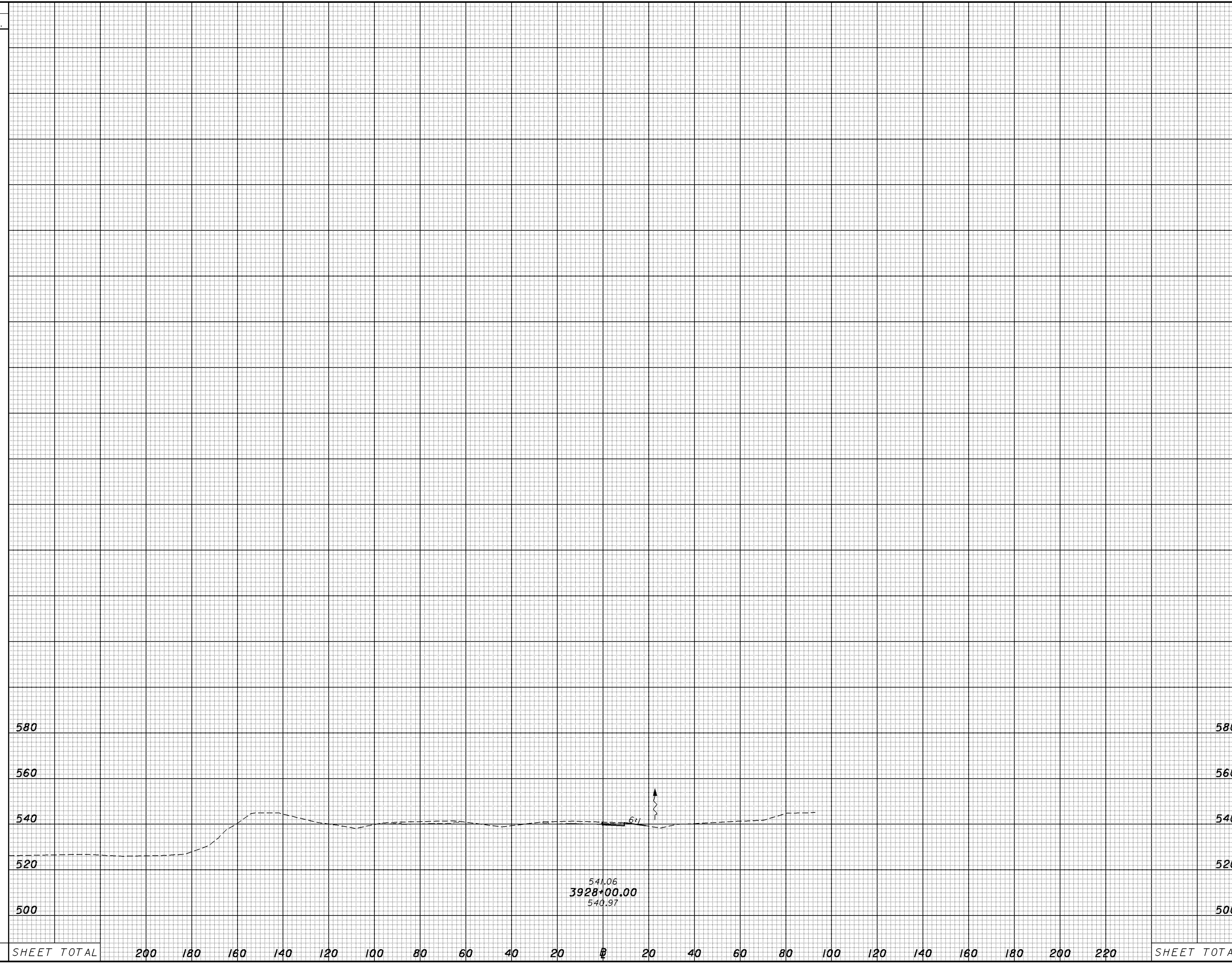
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618

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SEEDING

END WIDTH SO. YDS.



580

580

560

560

540

540

520

520

500

500

SHEET TOTAL

200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220

SHEET TOTAL

END AREA

CUT FILL

VOLUME

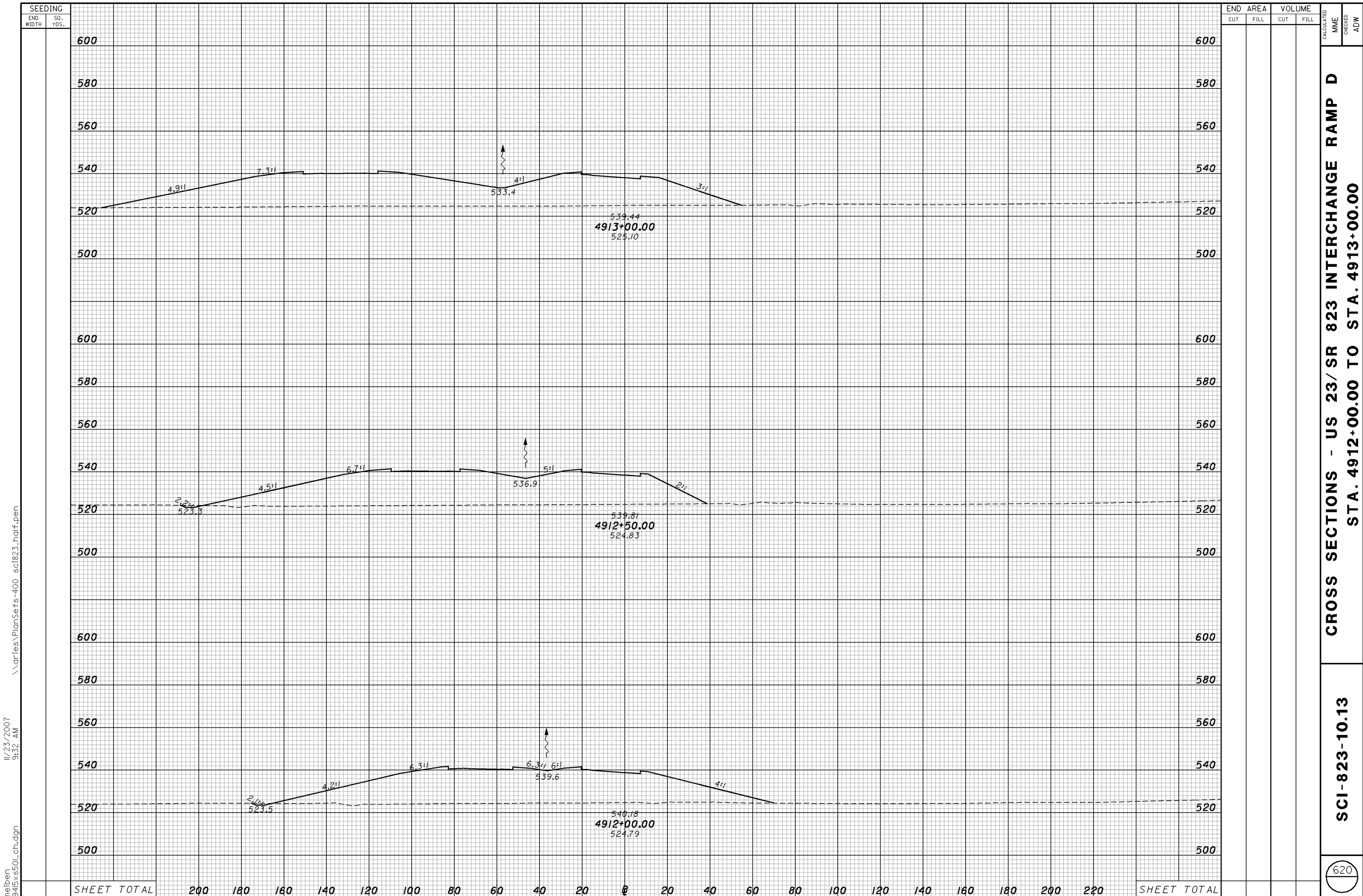
CUT FILL

CALCULATED MME

CHECKED ADW

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP C
STA. 3928+00.00

SCI-823-10.13



SEEDING	
END WIDTH	SO. YDS.

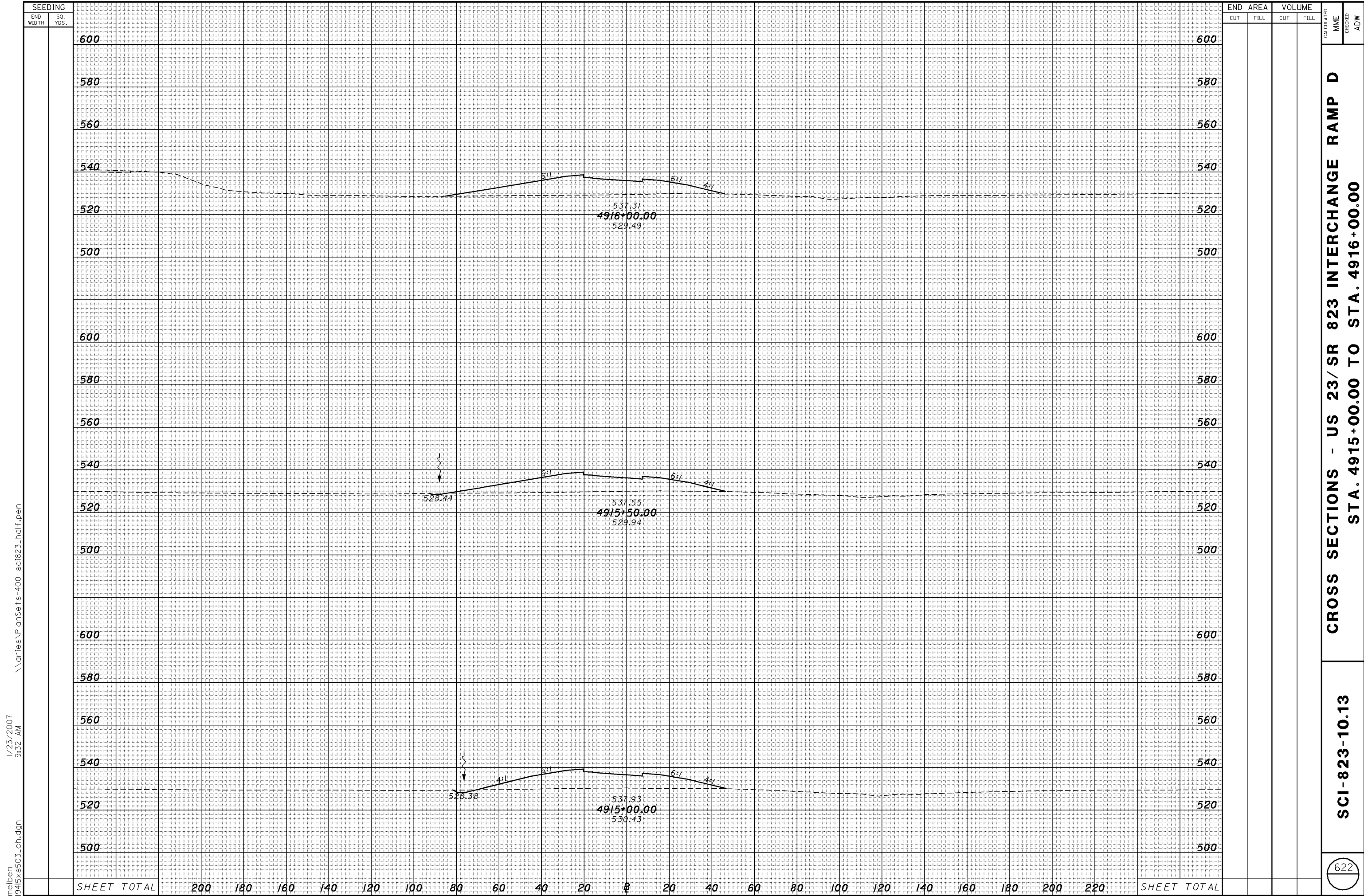
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP D
STA. 4912+00.00 TO STA. 4913+00.00

SCI-823-10.13

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SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING
END WIDTH SQ. YDS.

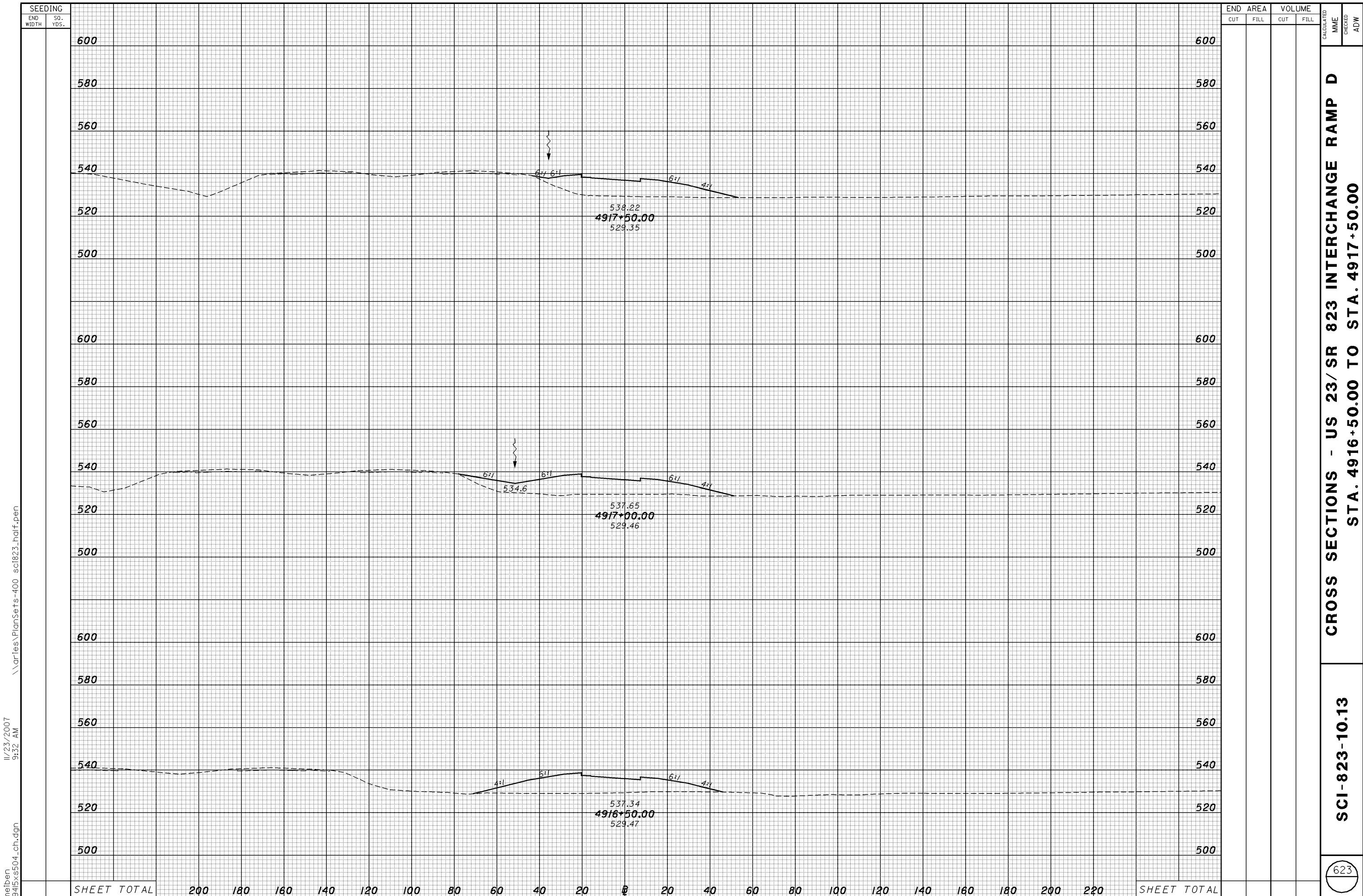
END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP D
STA. 4915+00.00 TO STA. 4916+00.00

SCI-823-10.13

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SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL



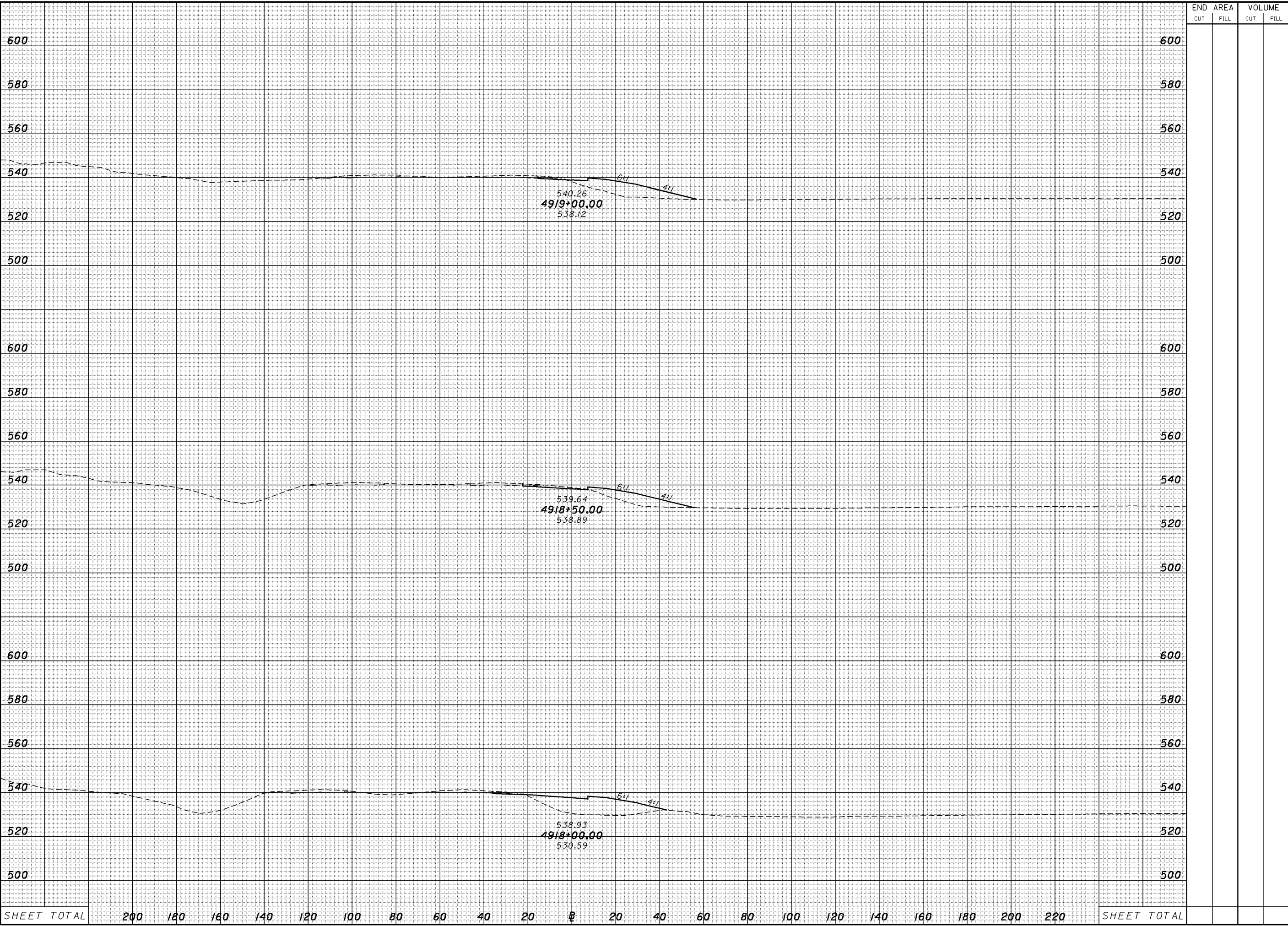
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CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP D
STA. 4916+50.00 TO STA. 4917+50.00

SCI-823-10.13

SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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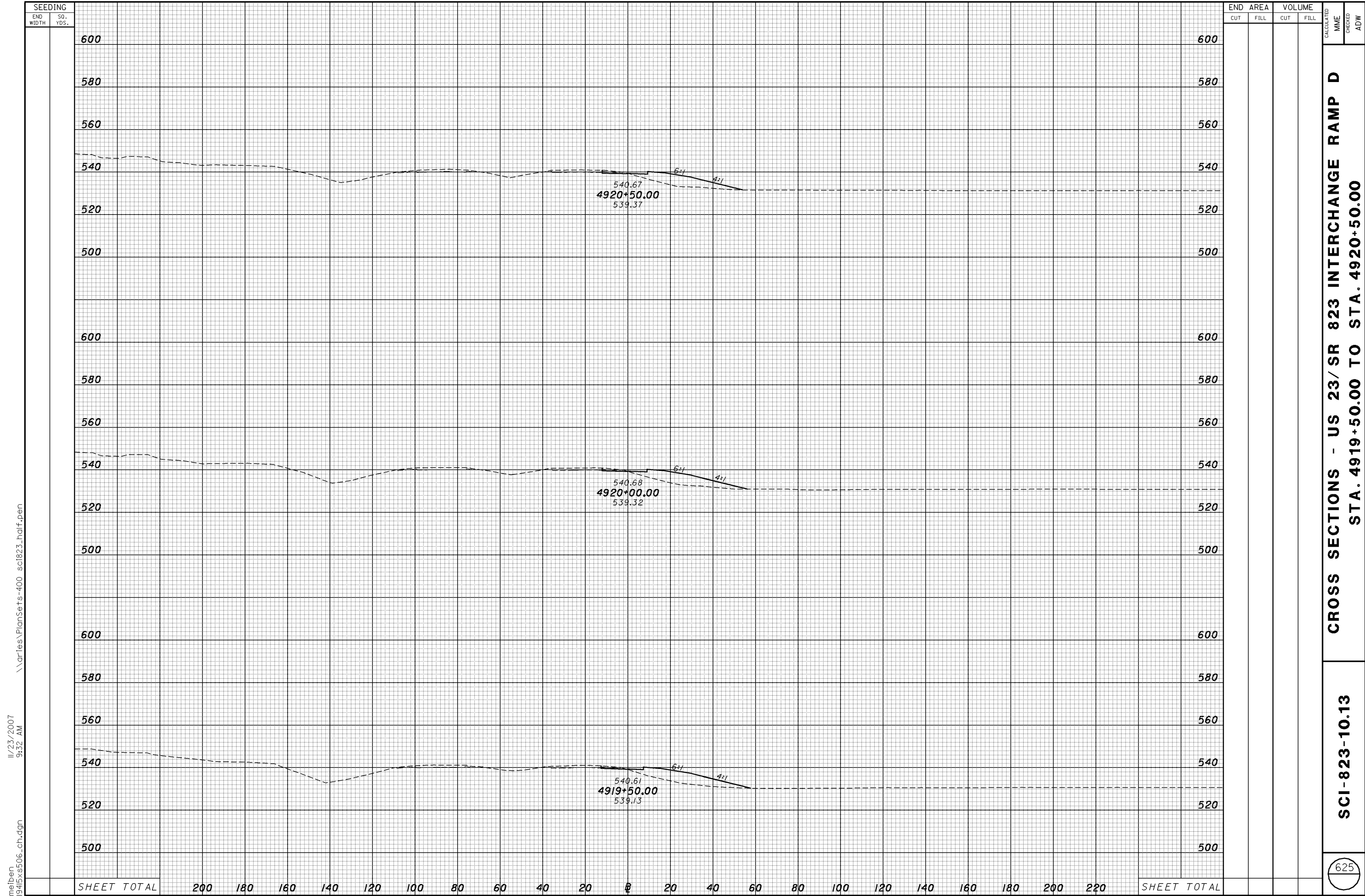
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SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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END AREA		VOLUME		CHECKED	
CUT	FILL	CUT	FILL	MME	ADW

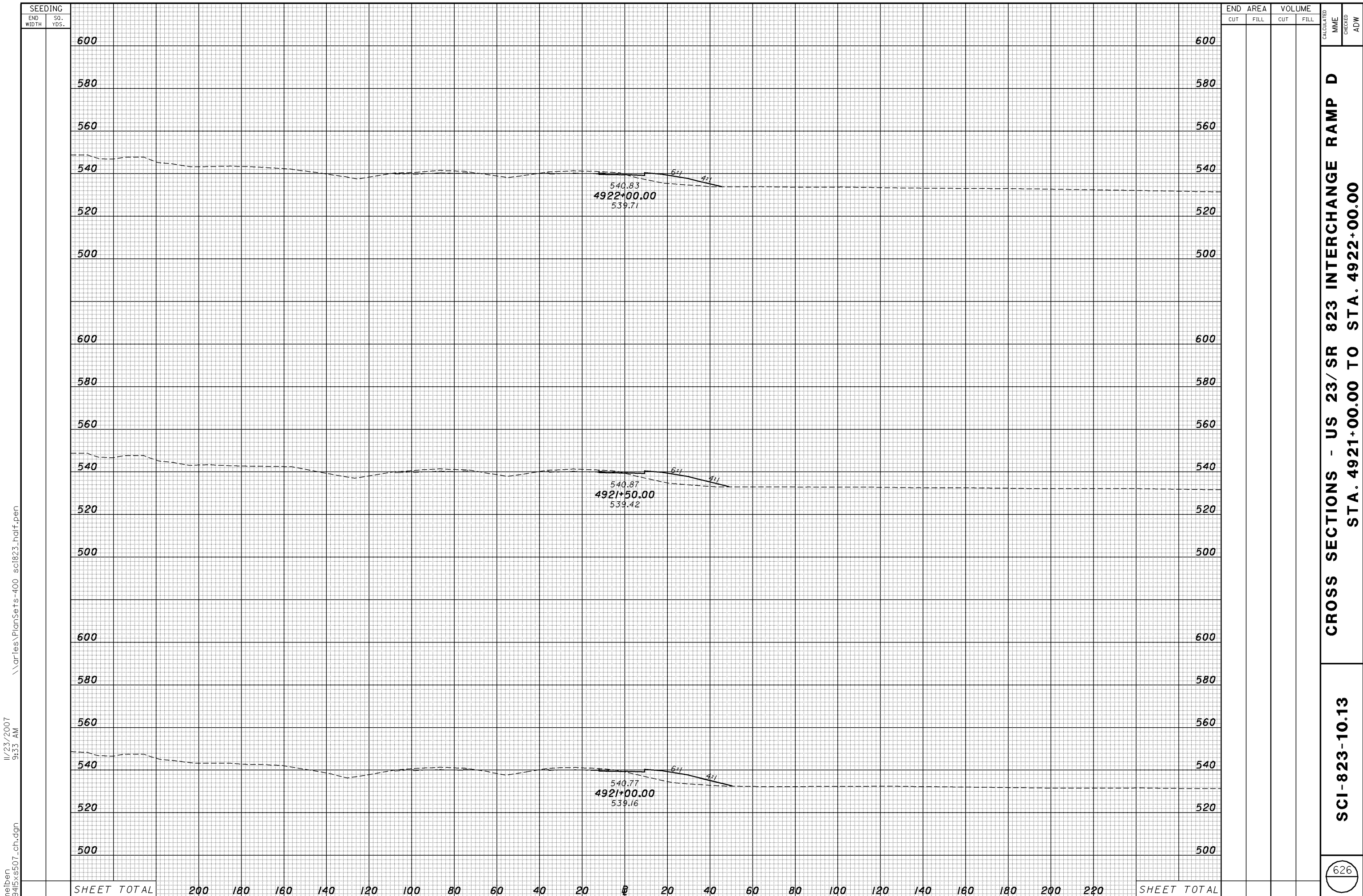
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STA. 4918+00.00 TO STA. 4919+00.00
 SCI-823-10.13



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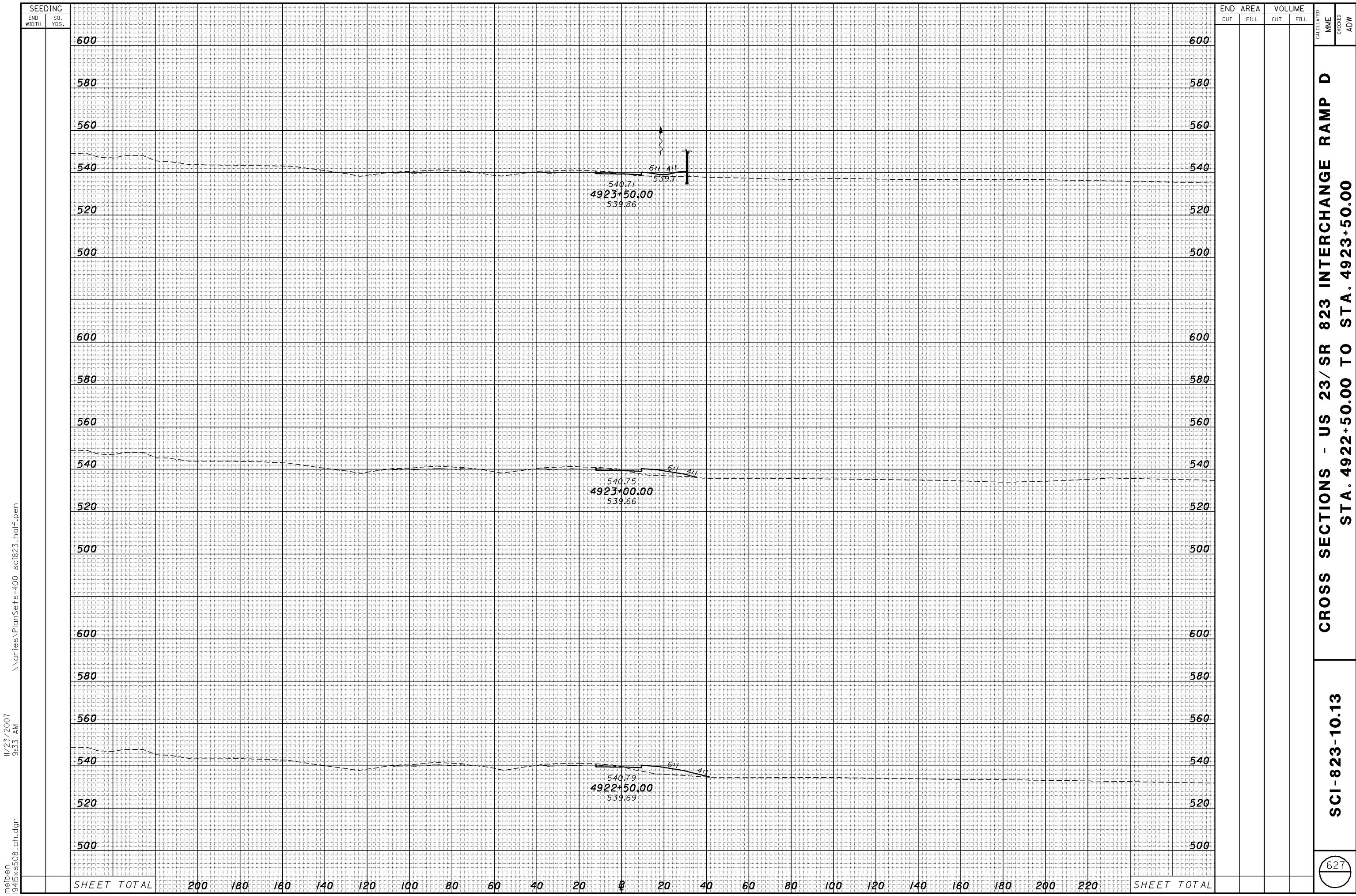
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CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP D
STA. 4921+00.00 TO STA. 4922+00.00

SCI-823-10.13



SEEDING		END AREA		VOLUME		CALCULATED		CHECKED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	MME	ADW	MME	ADW

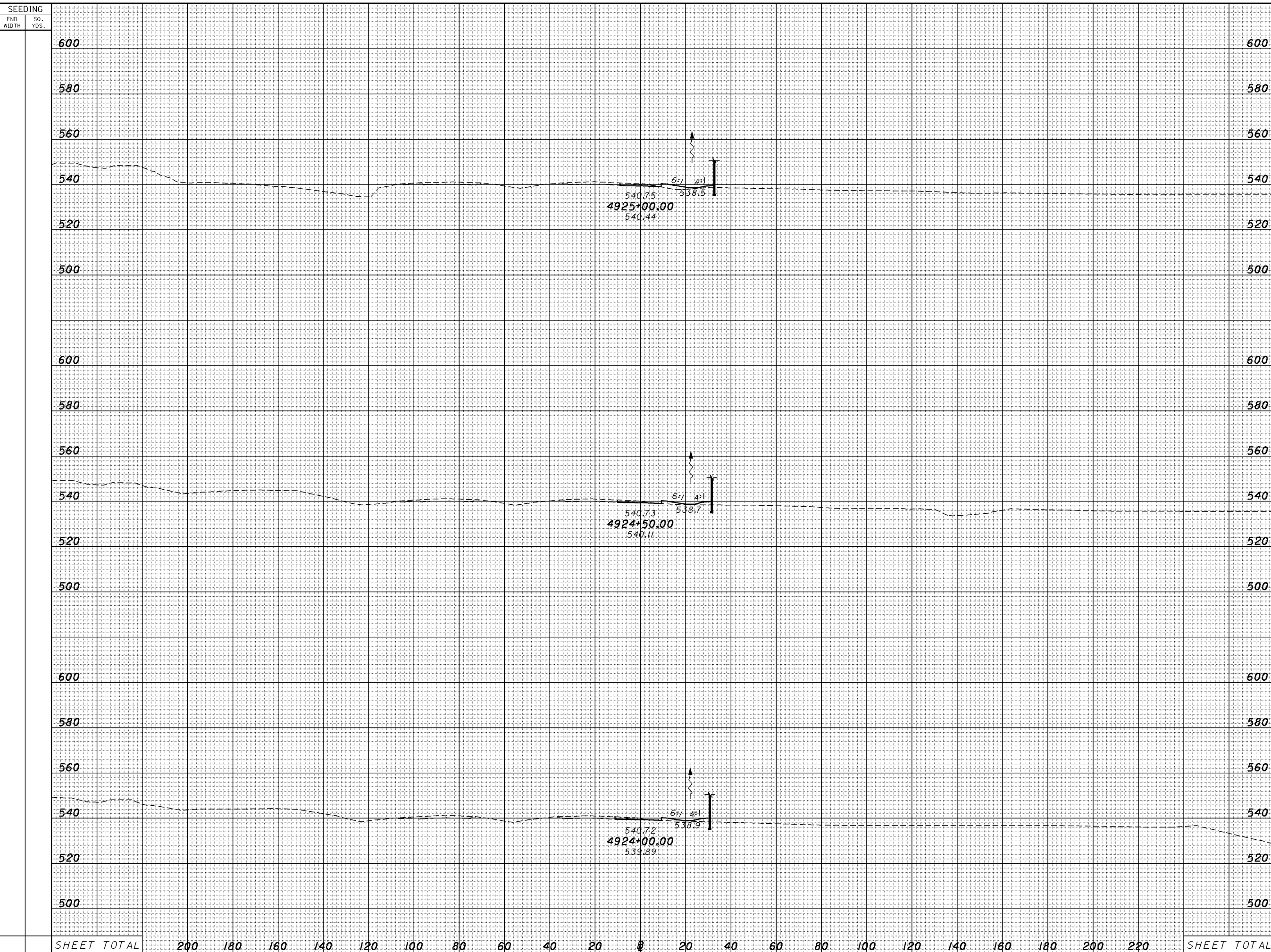
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CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP D
STA. 4922+50.00 TO STA. 4923+50.00

SCI-823-10.13

SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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11/23/2007
9:33 AM
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CALCULATED	CHECKED	END AREA		VOLUME	
		CUT	FILL	CUT	FILL
MME	ADW				

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP D
STA. 4924+00.00 TO STA. 4925+00.00

SCI-823-10.13

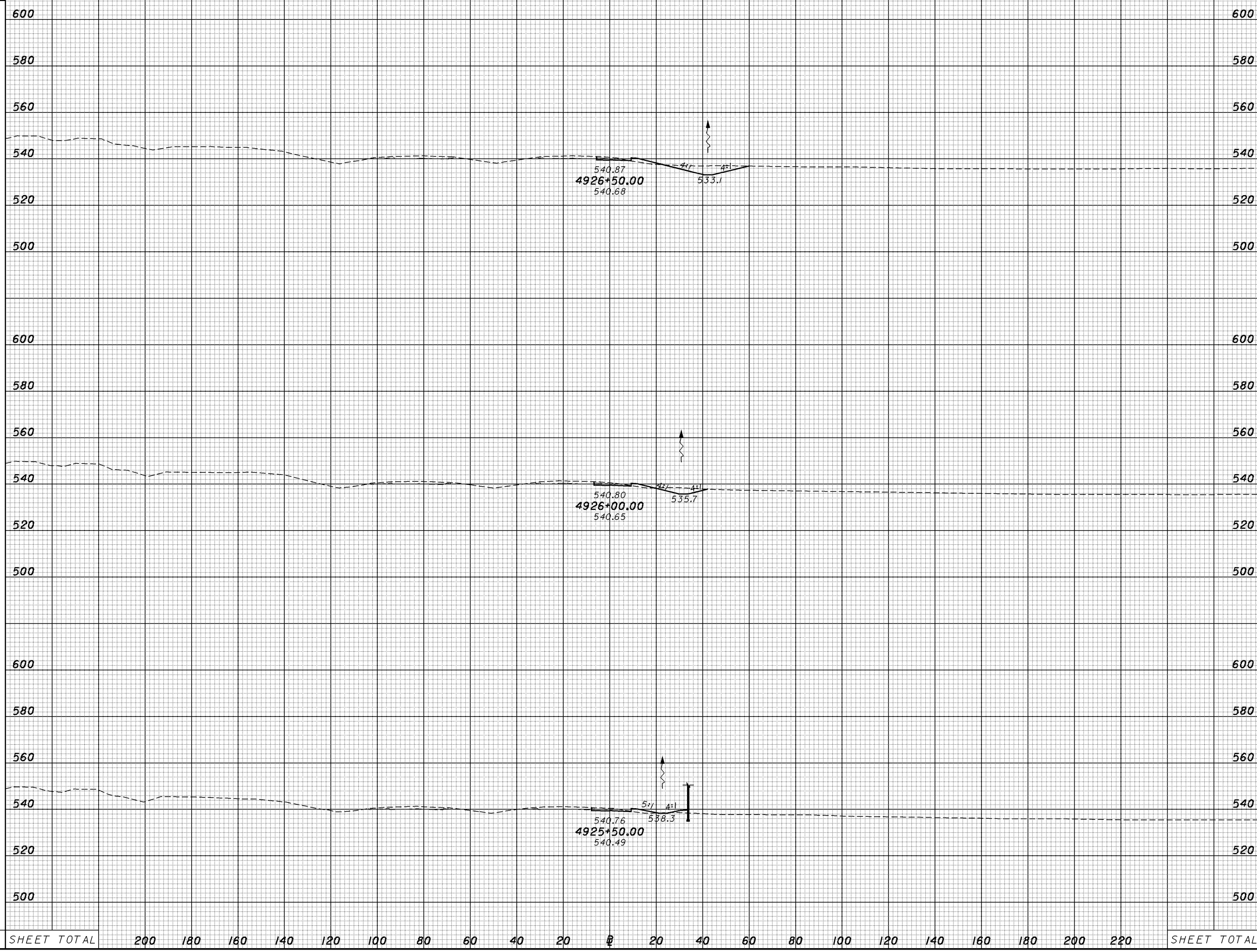
628

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meiben 1945xs510_ch.dgn

SEEDING
END SQ.
WIDTH YDS.

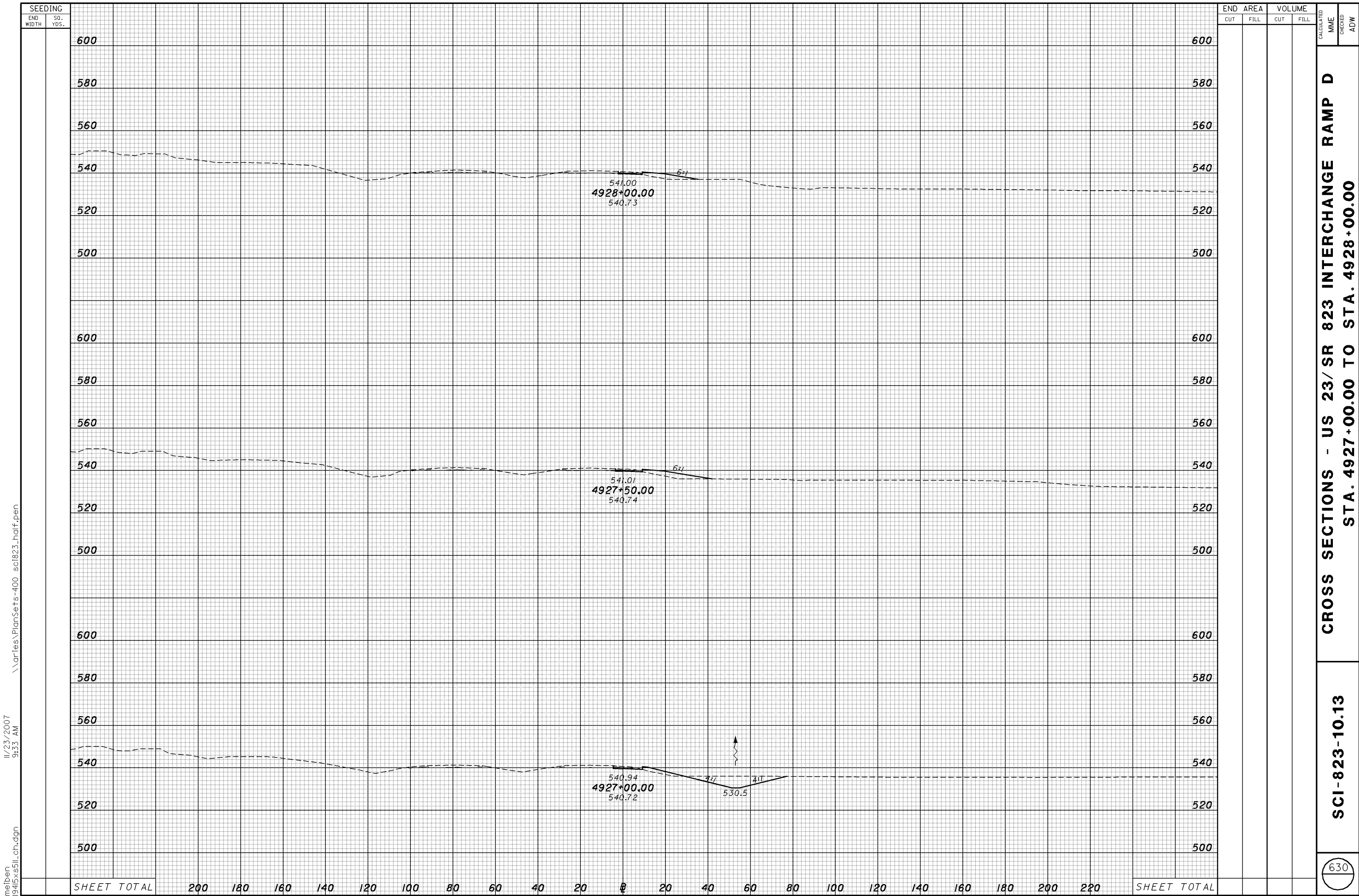
END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MME	ADW



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP D
STA. 4925+50.00 TO STA. 4926+50.00

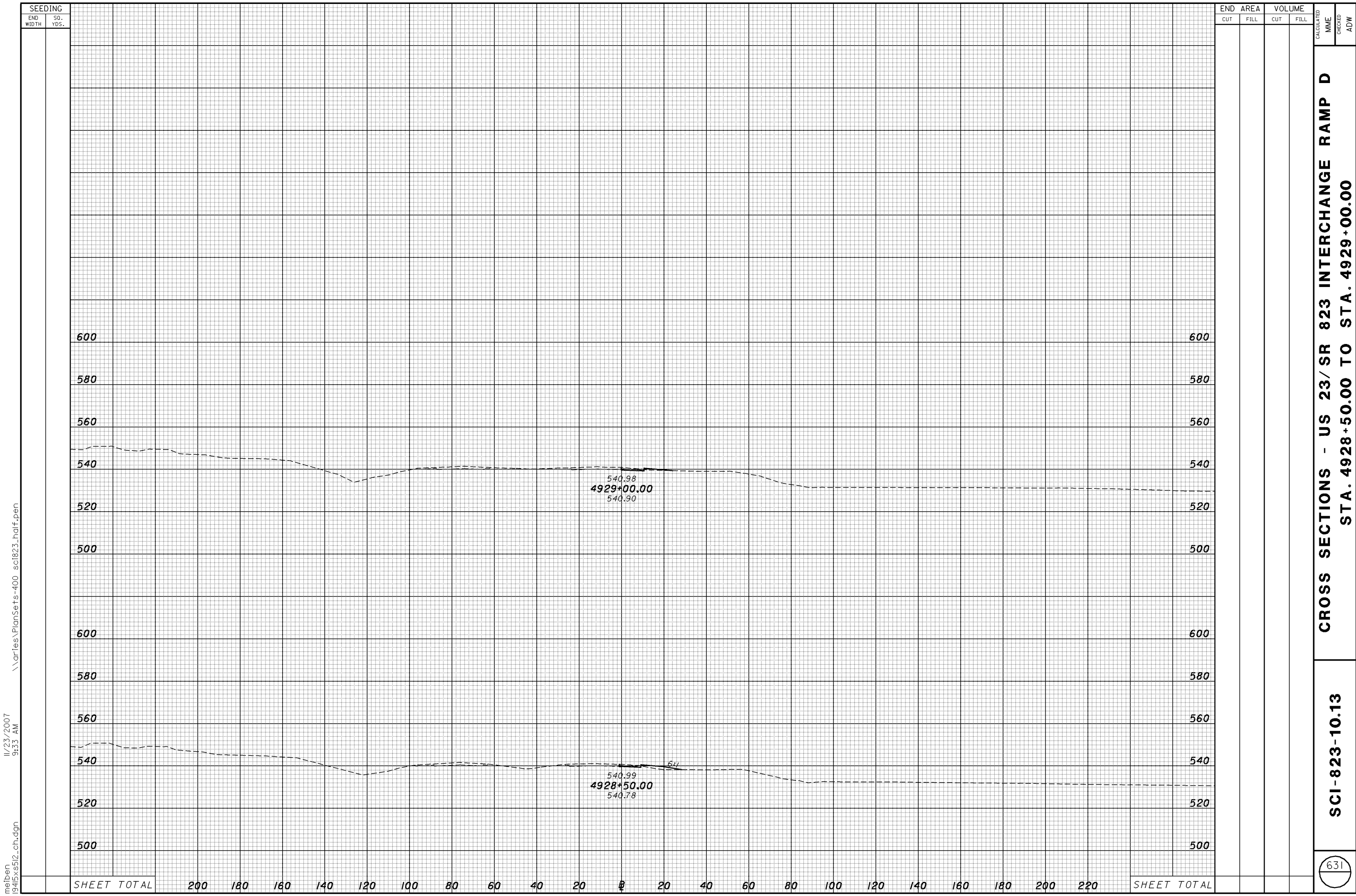
SCI-823-10.13



SEEDING
 END WIDTH SQ. YDS.
 11/23/2007 9:33 AM
 \\aries\PlanSets-400_sci823_half.pen
 meiben 1945xssll_ch.dgn

SEEDING	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
600				
580				
560				
540				
520				
500				
600				
580				
560				
540				
520				
500				
600				
580				
560				
540				
520				
500				
SHEET TOTAL	200	180	160	140
	120	100	80	60
	40	20	0	20
	40	60	80	100
	120	140	160	180
	200	220		
SHEET TOTAL				

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP D
 STA. 4927+00.00 TO STA. 4928+00.00
 SCI-823-10.13
 630



SEEDING

END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	MME
CHECKED	ADW

CROSS SECTIONS - US 23/SR 823 INTERCHANGE RAMP D
STA. 4928+50.00 TO STA. 4929+00.00

SCI-823-10.13

631

meiben
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 9:33 AM
 \\aries\PlanSets-400_sci823_half.pen

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE CR29
	CULVERT DETAILS
	DRAINAGE PROFILES
	PLAN SR823
	PROFILE SR823



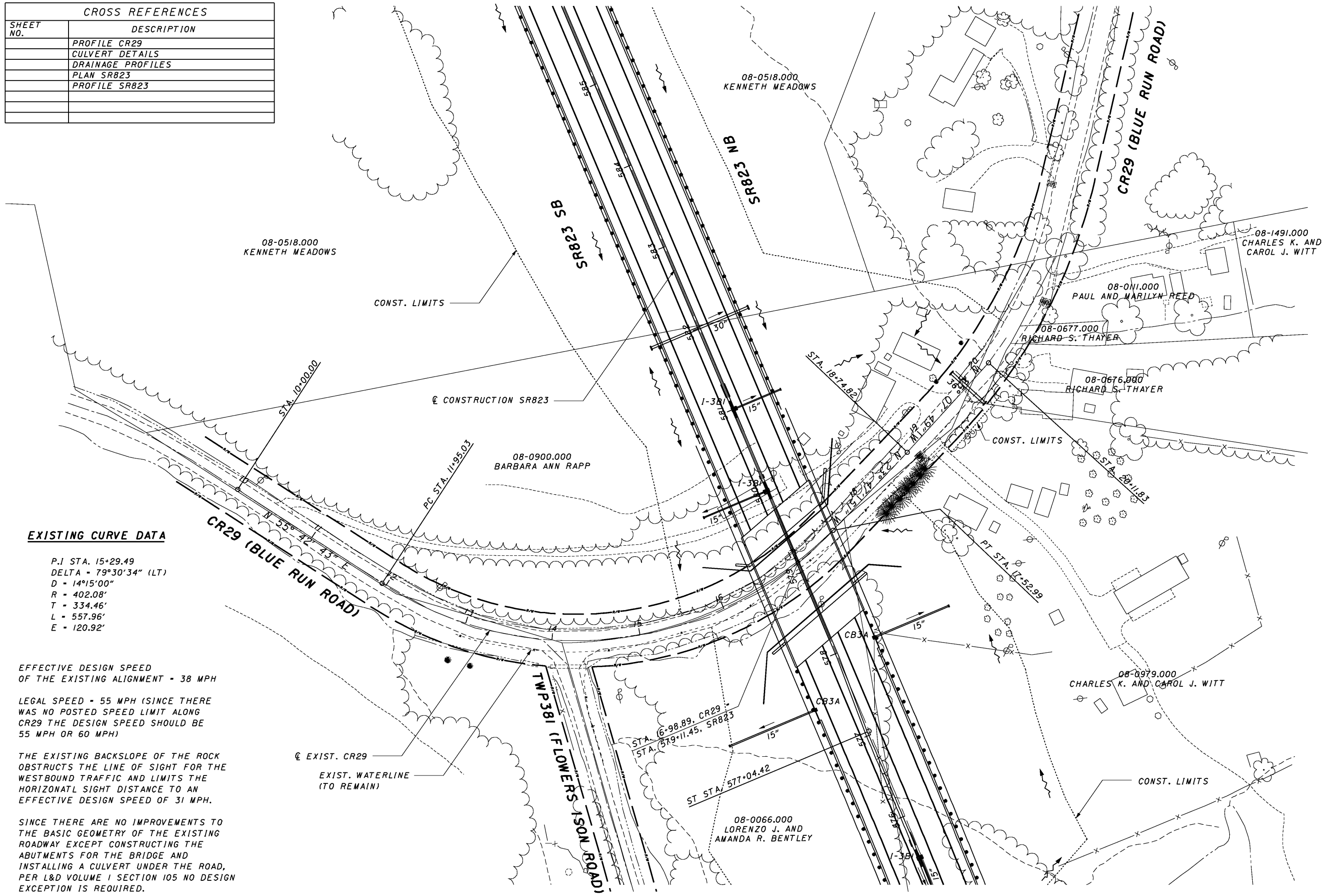
HORIZONTAL SCALE IN FEET

CALCULATED
CHECKED

PLAN - CR29 (BLUE RUN ROAD)
STA. 10+00.00 TO STA. 20+11.83

SCI-823-10.13

632



EXISTING CURVE DATA

P.I STA. 15+29.49
 DELTA = 79°30'34" (LT)
 D = 14°15'00"
 R = 402.08'
 T = 334.46'
 L = 557.96'
 E = 120.92'

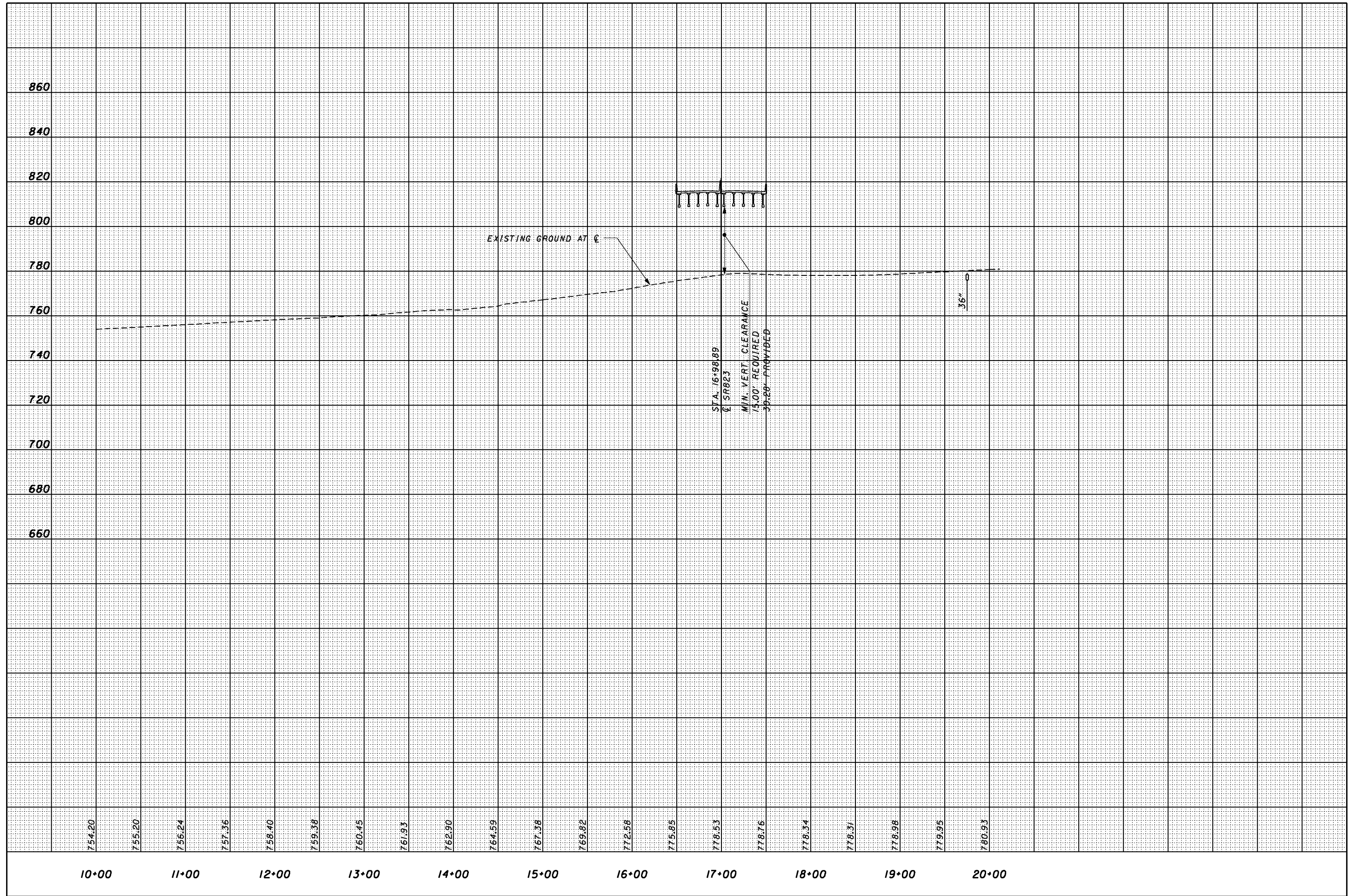
EFFECTIVE DESIGN SPEED
 OF THE EXISTING ALIGNMENT - 38 MPH

LEGAL SPEED - 55 MPH (SINCE THERE
 WAS NO POSTED SPEED LIMIT ALONG
 CR29 THE DESIGN SPEED SHOULD BE
 55 MPH OR 60 MPH)

THE EXISTING BACKSLOPE OF THE ROCK
 OBSTRUCTS THE LINE OF SIGHT FOR THE
 WESTBOUND TRAFFIC AND LIMITS THE
 HORIZONTAL SIGHT DISTANCE TO AN
 EFFECTIVE DESIGN SPEED OF 31 MPH.

SINCE THERE ARE NO IMPROVEMENTS TO
 THE BASIC GEOMETRY OF THE EXISTING
 ROADWAY EXCEPT CONSTRUCTING THE
 ABUTMENTS FOR THE BRIDGE AND
 INSTALLING A CULVERT UNDER THE ROAD,
 PER L&D VOLUME 1 SECTION 105 NO DESIGN
 EXCEPTION IS REQUIRED.

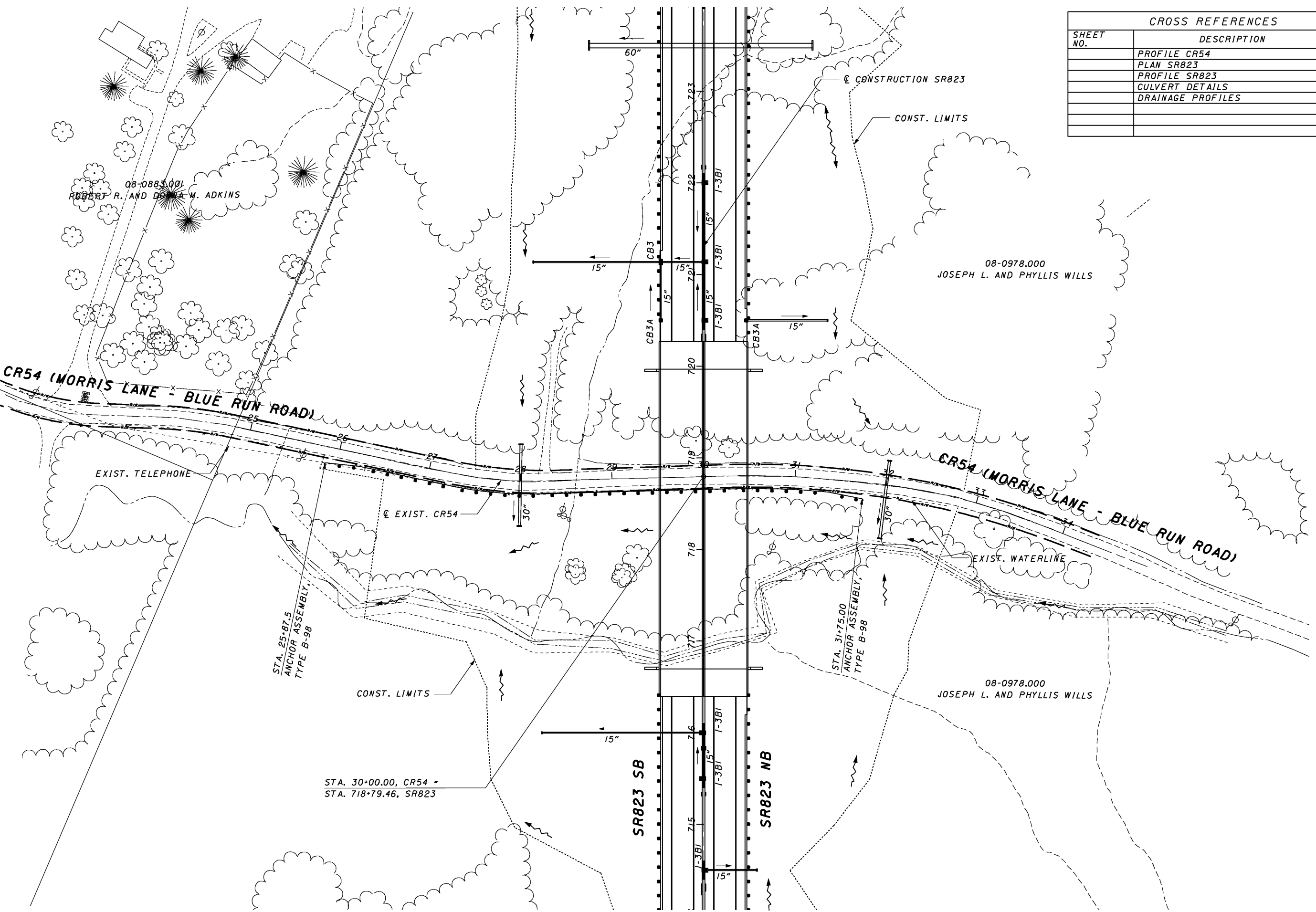
1/28/2008 3:01:31 PM g:\c003\0064\road\phase_2\79917\p01_cr29.sht



PROFILE - CR29 (BLUE RUN ROAD)
STA. 10+00.00 TO STA. 20+11.83

SCI-823-10.13

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CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE CR54
	PLAN SR823
	PROFILE SR823
	CULVERT DETAILS
	DRAINAGE PROFILES



PLAN - CR54 (MORRIS LANE - BLUE RUN ROAD)
 STA. 24+71.62 TO STA. 34+99.38

SCI-823-10.13
 634

08-0883.001
 ROBERT R. AND BEVERA M. ADKINS

08-0978.000
 JOSEPH L. AND PHYLLIS WILLS

08-0978.000
 JOSEPH L. AND PHYLLIS WILLS

STA. 25+87.5
 ANCHOR ASSEMBLY,
 TYPE B-98

STA. 31+75.00
 ANCHOR ASSEMBLY,
 TYPE B-98

STA. 30+00.00, CR54 -
 STA. 718+79.46, SR823

SR823 SB

SR823 NB

CR54 (MORRIS LANE - BLUE RUN ROAD)

CR54 (MORRIS LANE - BLUE RUN ROAD)

EXIST. TELEPHONE

EXIST. CR54

EXIST. WATERLINE

CONST. LIMITS

CONST. LIMITS

CONSTRUCTION SR823

60"

15"

15"

30"

30"

15"

15"

15"

15"

15"

15"

15"

15"

15"

15"

15"

15"

15"

15"

15"

15"

15"

15"

15"

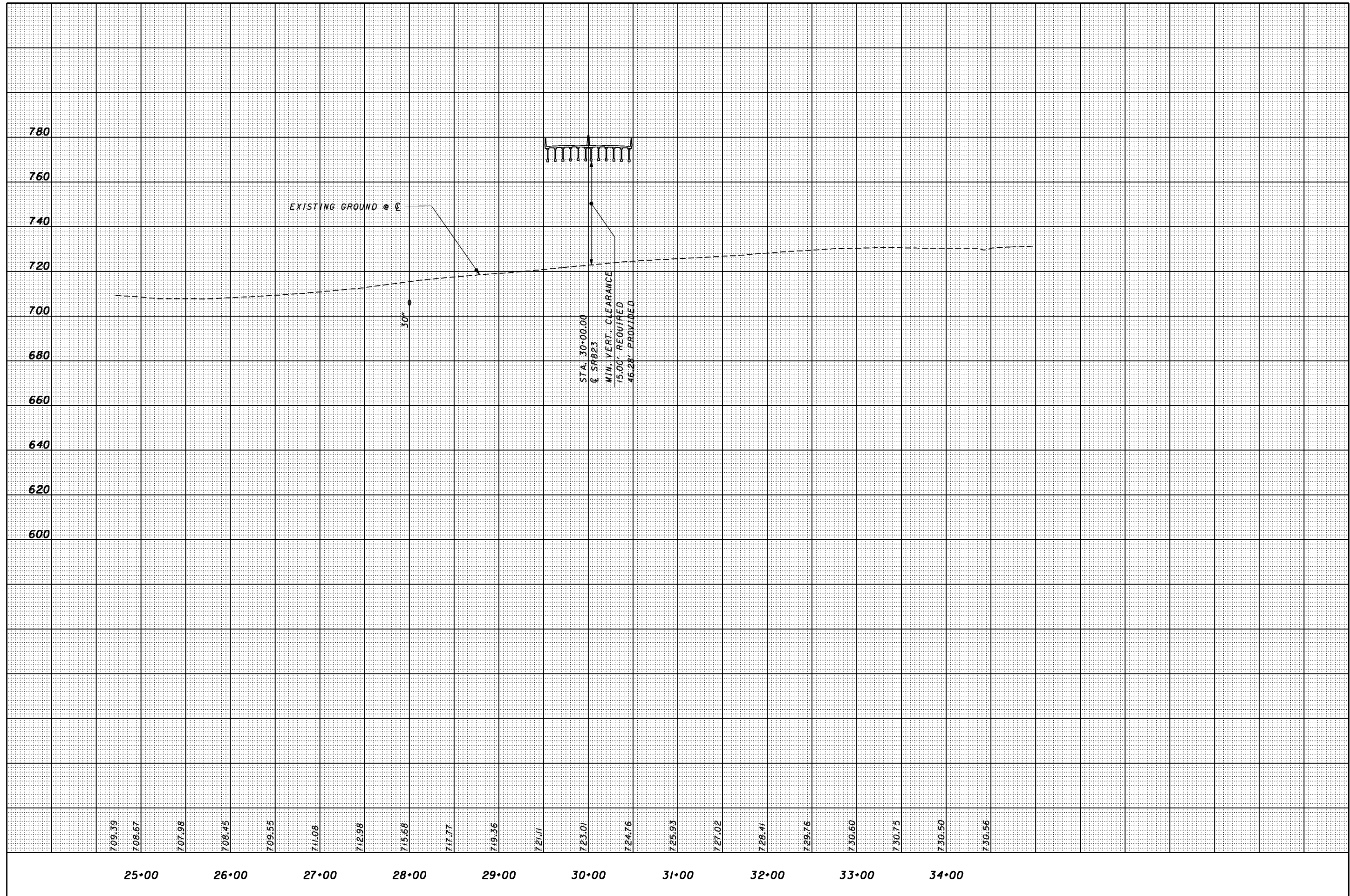
15"

15"

15"

15"

15"



PROFILE - CR54 (MORRIS LANE - BLUE RUN ROAD)
STA. 24+71.62 TO STA. 34+99.38

SCI-823-10.13

CURVE # CR184 - 1

P.I. STA. = 12+40.36
 DELTA = 23° 02' 18" (LT)
 Dc = 6° 15' 00"
 R = 916.73'
 T = 186.83'
 L = 368.61'
 E = 18.84'
 Emax. = 0.034
 PROVIDE DESIGN SPEED = 25 MPH (NDC = 55 MPH)

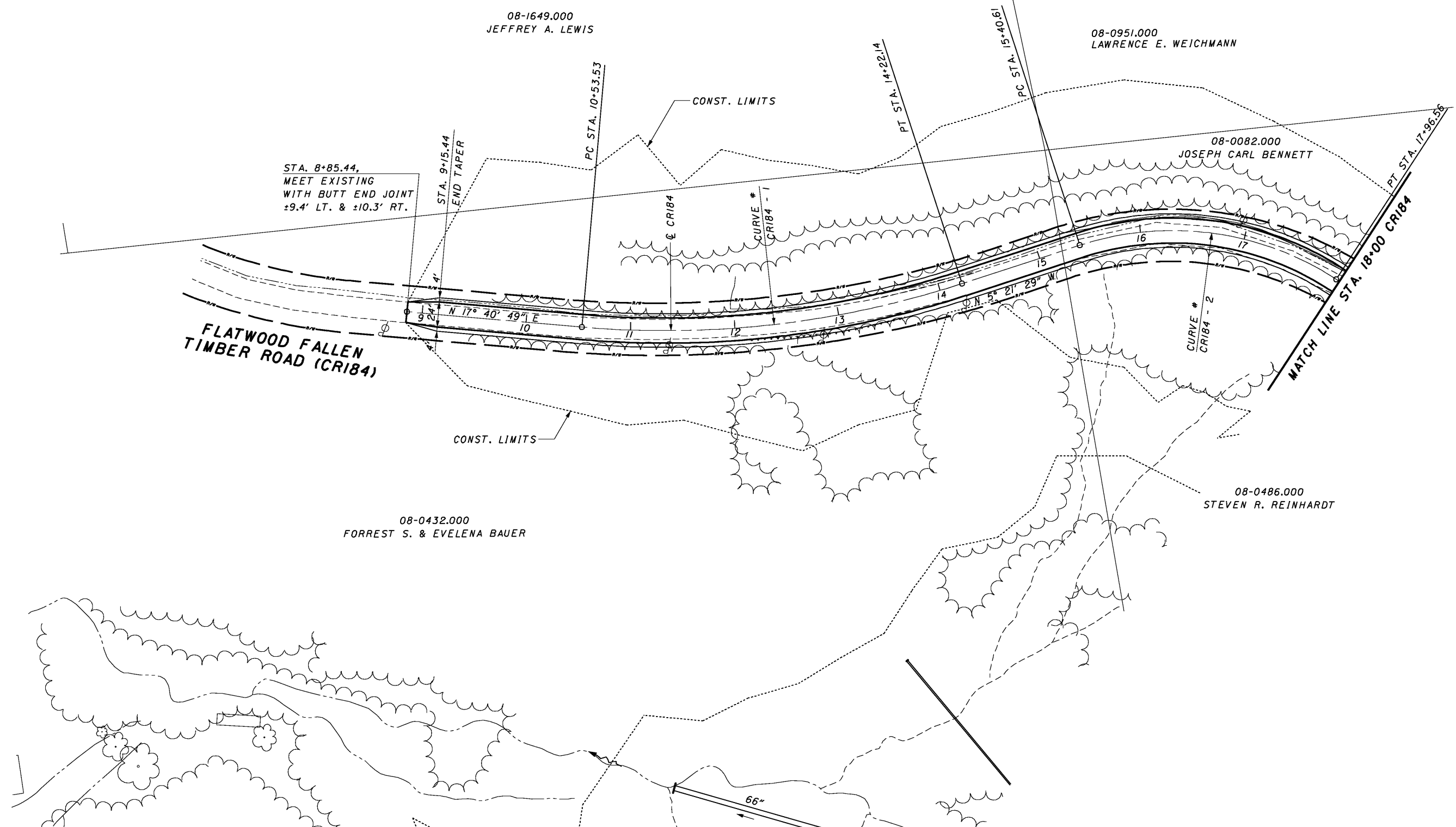
CURVE # CR184 - 2

P.I. STA. = 16+77.84
 DELTA = 51° 11' 18" (RT)
 Dc = 20° 00' 00"
 R = 286.48'
 T = 137.22'
 L = 255.94'
 E = 31.17'
 Emax. = 0.064
 DESIGN SPEED = 25 MPH (NDC = 55 MPH)

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE CR184

CALCULATED
 MT
 CHECKED
 RW

0 25 50 100
 HORIZONTAL
 SCALE IN FEET

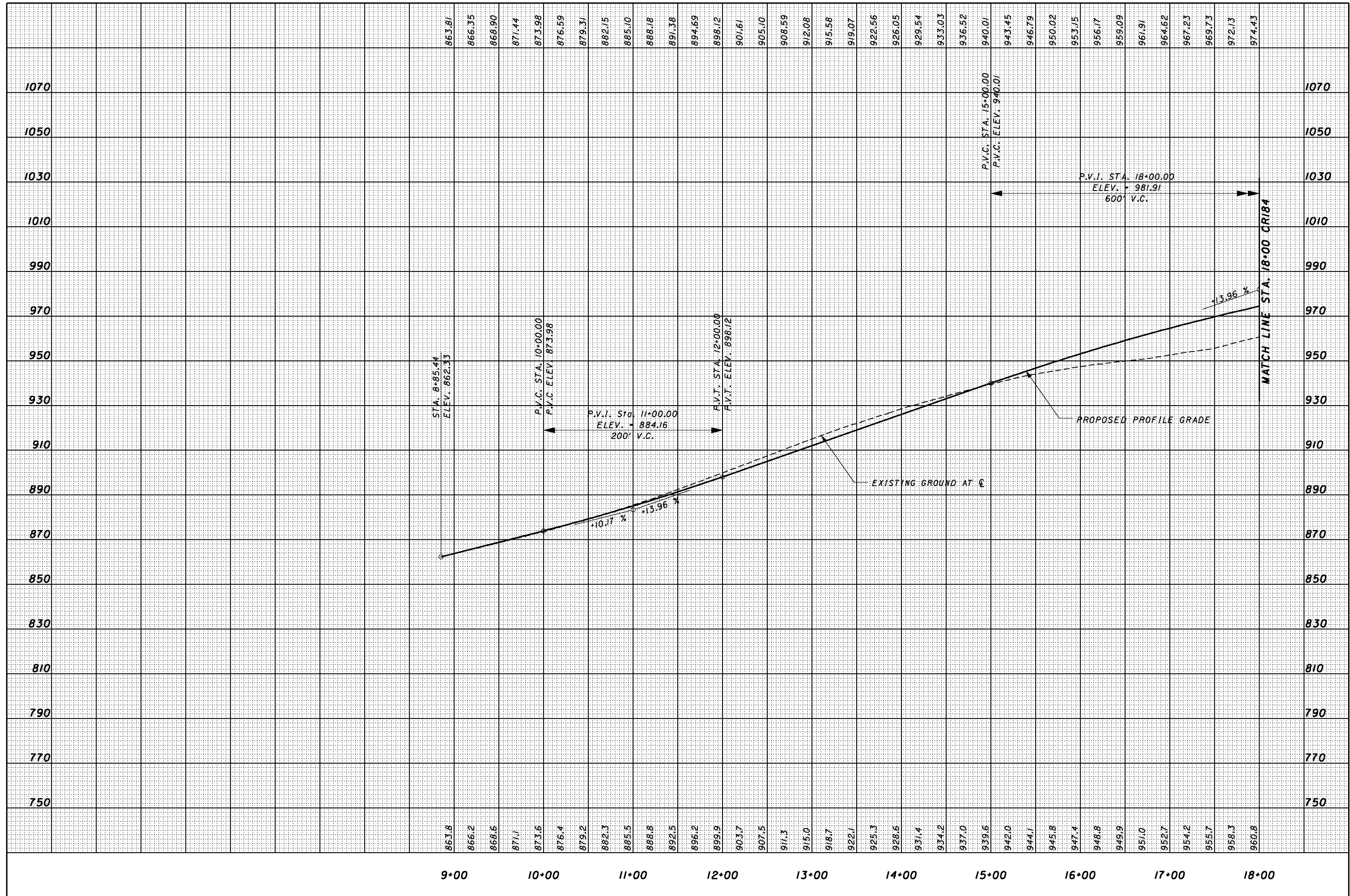


PLAN - CR184
 STA. 8+85.44 TO STA. 18+00.00

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636

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CALCULATED
MT
CHECKED
RN

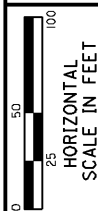
PROFILE - CR184
STA. 8+85.44 TO STA. 18+00.00

SCI-823-10.13

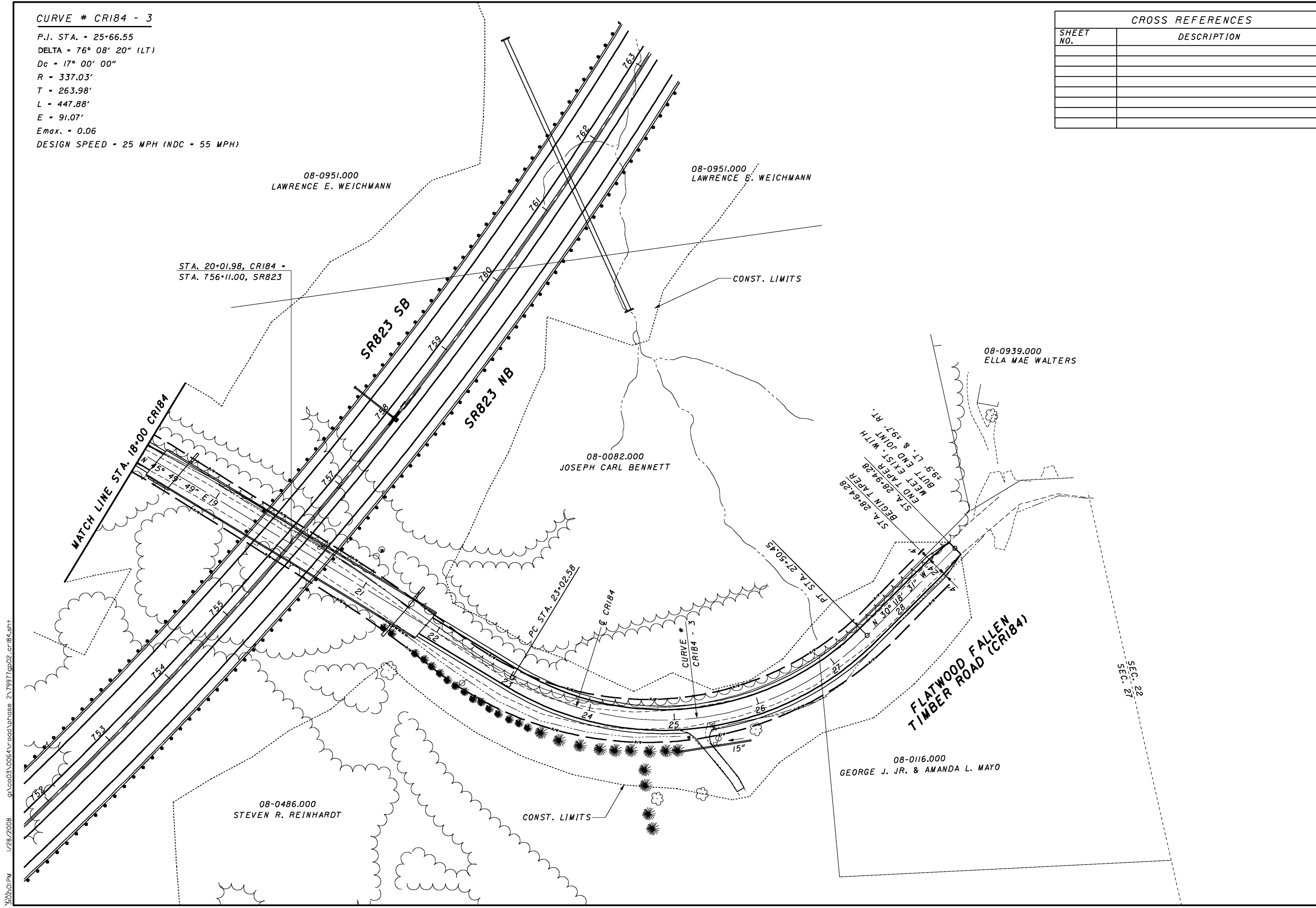
CURVE # CR184 - 3

P.I. STA. = 25+66.55
 DELTA = 76° 08' 20" (LT)
 Dc = 17° 00' 00"
 R = 337.03'
 T = 263.98'
 L = 447.88'
 E = 91.07'
 Emax. = 0.06
 DESIGN SPEED = 25 MPH (NDC = 55 MPH)

CROSS REFERENCES	
SHEET NO.	DESCRIPTION



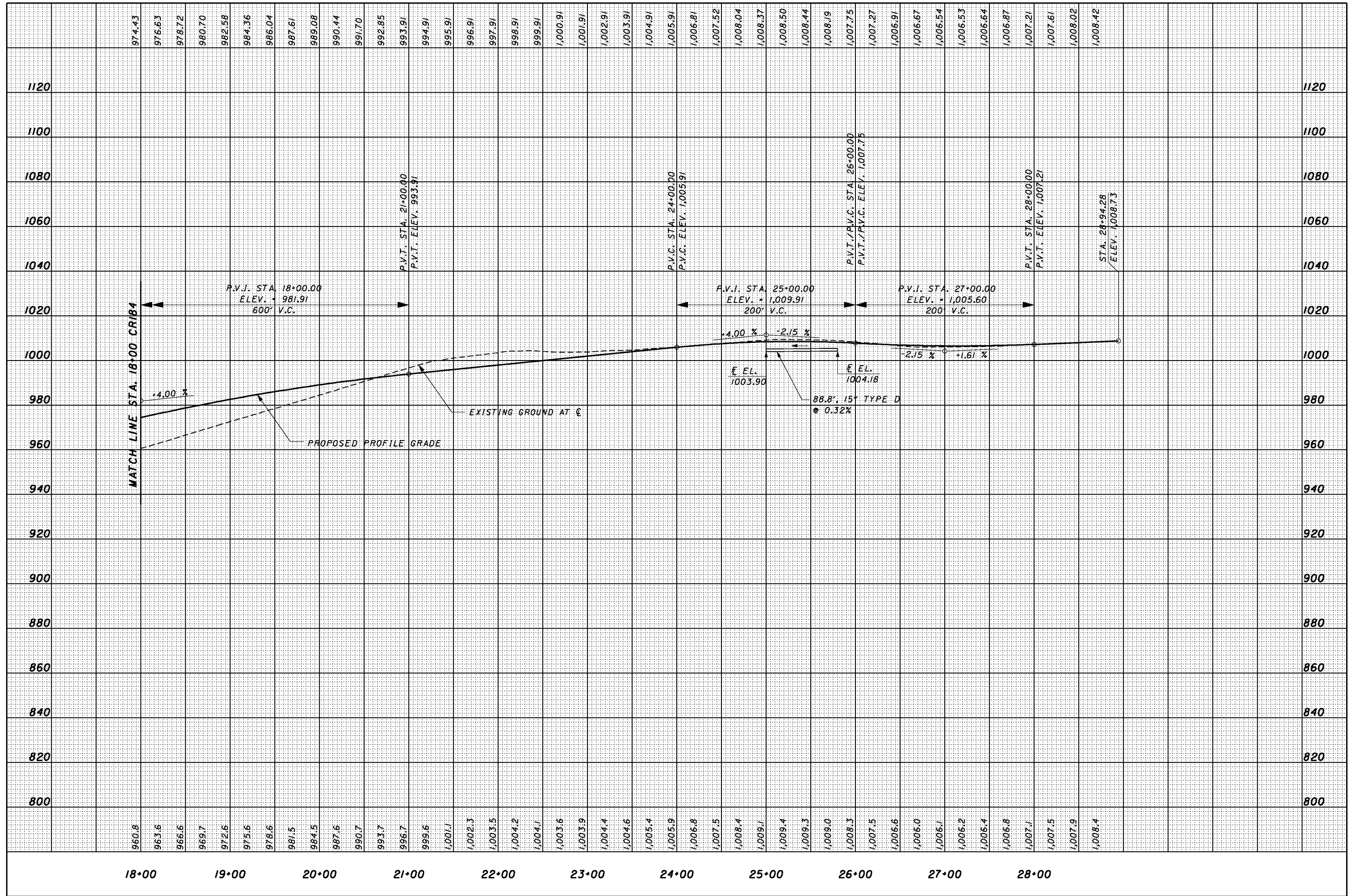
CALCULATED
 MT
 CHECKED
 RW



PLAN - CR184
STA. 18+00.00 TO STA. 28+94.28

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MATCH LINE STA. 18+00 CR184

P.V.I. STA. 18+00.00
ELEV. = 981.91
600' V.C.

P.V.T. STA. 21+00.00
P.V.C. ELEV. 993.91

P.V.I. STA. 25+00.00
ELEV. = 1,009.91
200' V.C.

P.V.I. STA. 27+00.00
ELEV. = 1,005.60
200' V.C.

P.V.T./P.V.C. STA. 26+00.00
P.V.C. ELEV. 1,005.91

P.V.T. STA. 28+00.00
P.V.C. ELEV. 1,007.21

STA. 28+94.28
ELEV. 1,008.73

EXISTING GROUND AT C

PROPOSED PROFILE GRADE

E. E. L. 1003.90

E. E. L. 1004.18

88.8', 15' TYPE D
0.32%

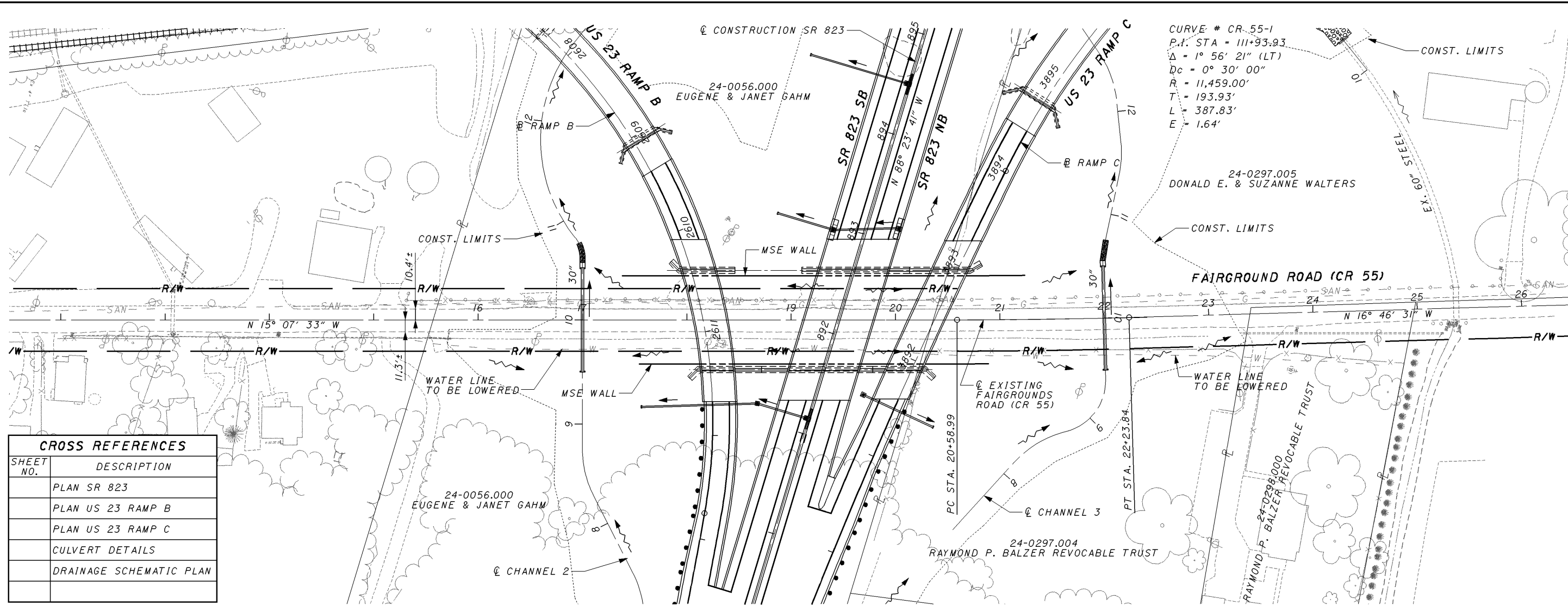
18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00

CALCULATED
MT
CHECKED
RN

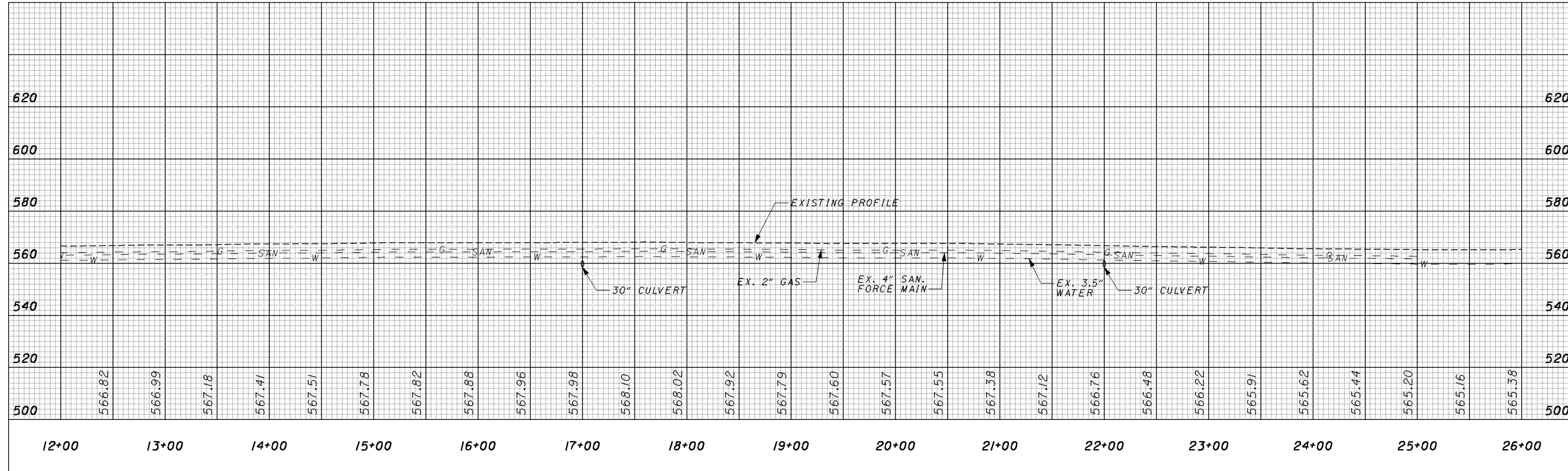
PROFILE - CR184
STA. 18+00.00 TO STA. 28+94.28

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CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PLAN SR 823
	PLAN US 23 RAMP B
	PLAN US 23 RAMP C
	CULVERT DETAILS
	DRAINAGE SCHEMATIC PLAN





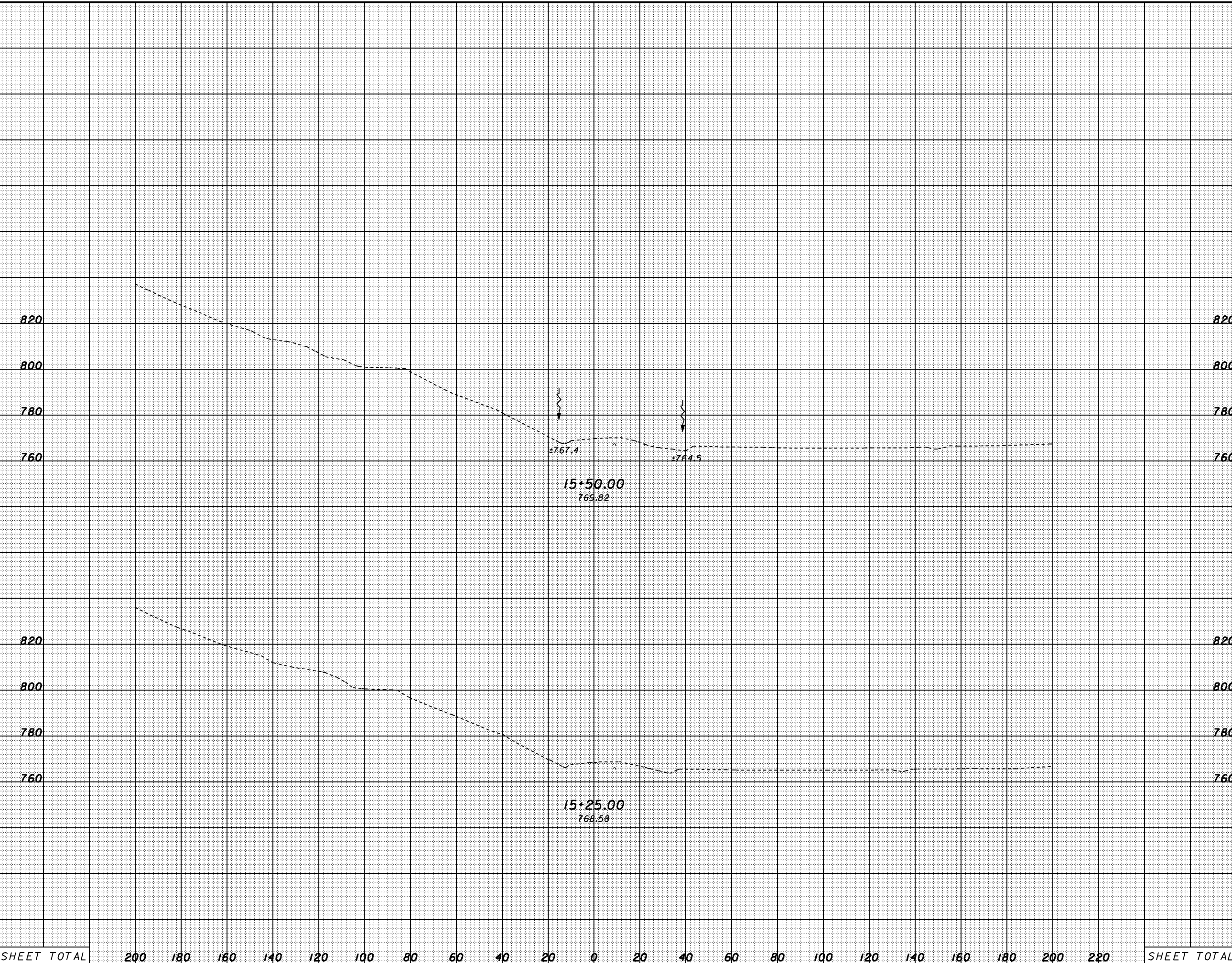


 HORIZONTAL SCALE IN FEET
 CALCULATED: ADW
 CHECKED: CTS
PLAN & PROFILE - FAIRGROUND ROAD (CR 55)
STA. 12+00.00 TO STA. 26+00.00
SCI-823-10.13


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SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

CROSS SECTIONS
CR29 - STA. 15+25.00 TO STA. 15+50.00

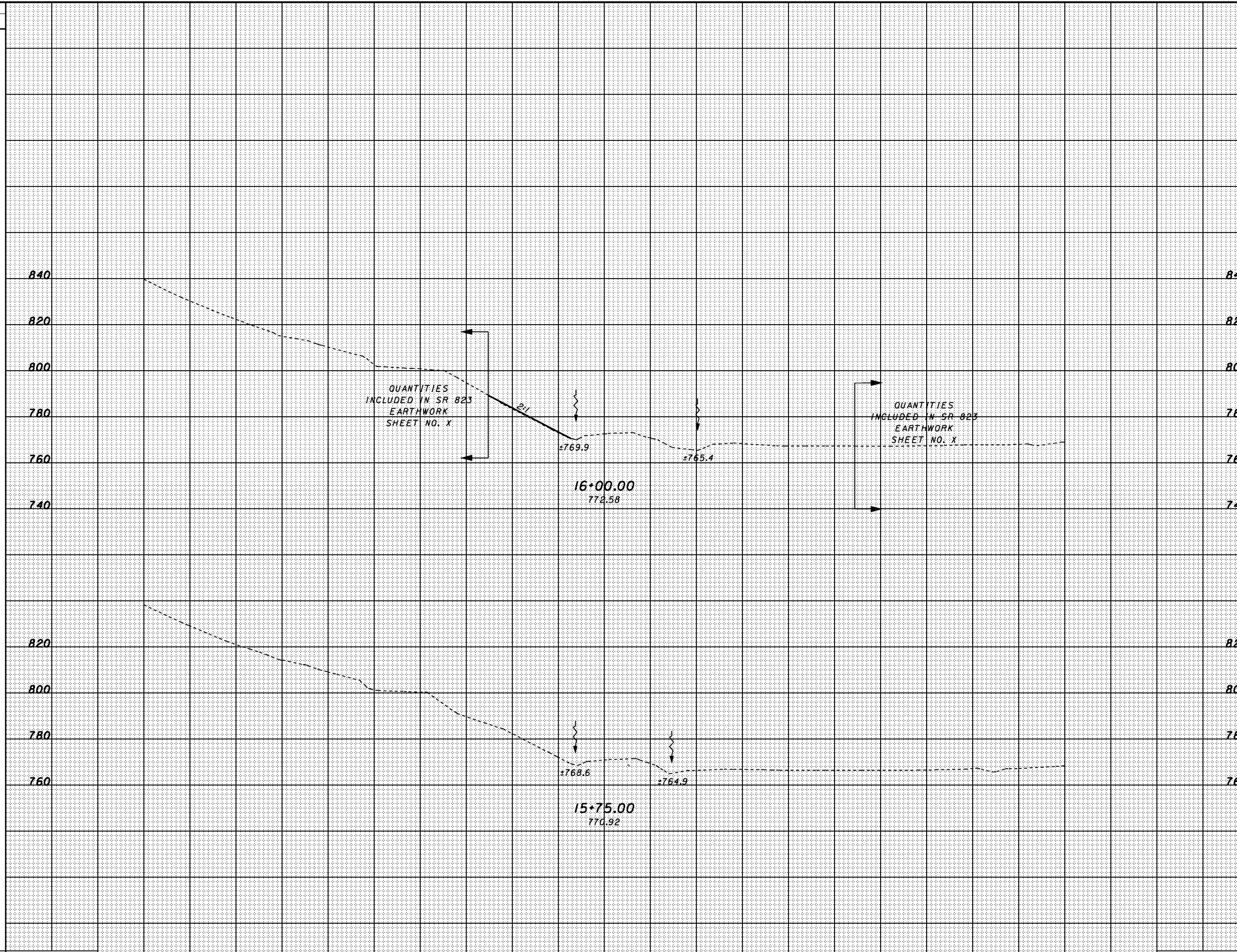
SCI-823-10.13

640A

1/28/2008 3:03:13 PM g:\co03\0064\road\phase 2\79977xs_cr29.dgn

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS
STA. 15+75.00 TO STA. 16+00.00

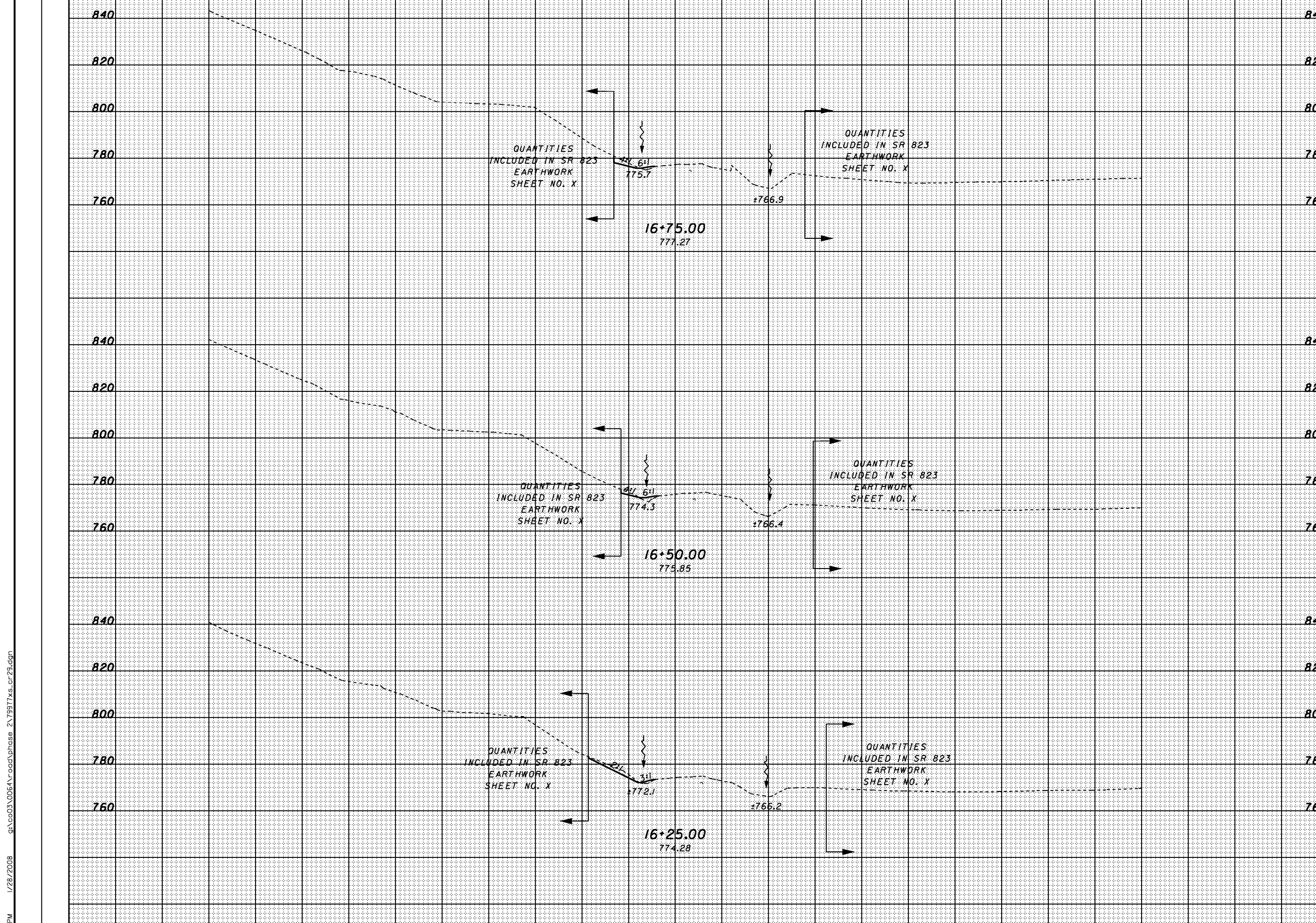
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640B

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
CR29 - STA. 16+25.00 TO STA. 16+75.00

SCI-823-10.13

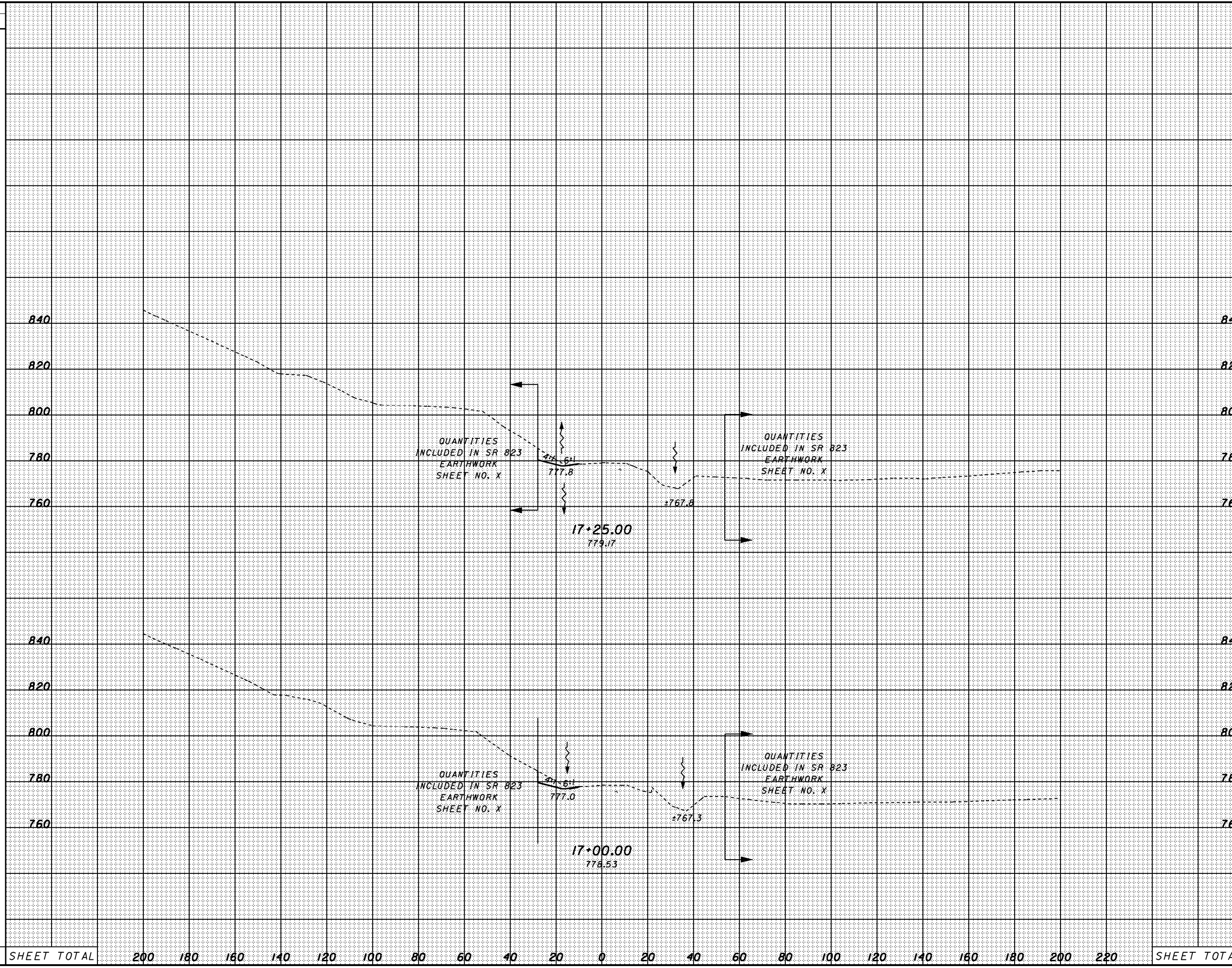
6400

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SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

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SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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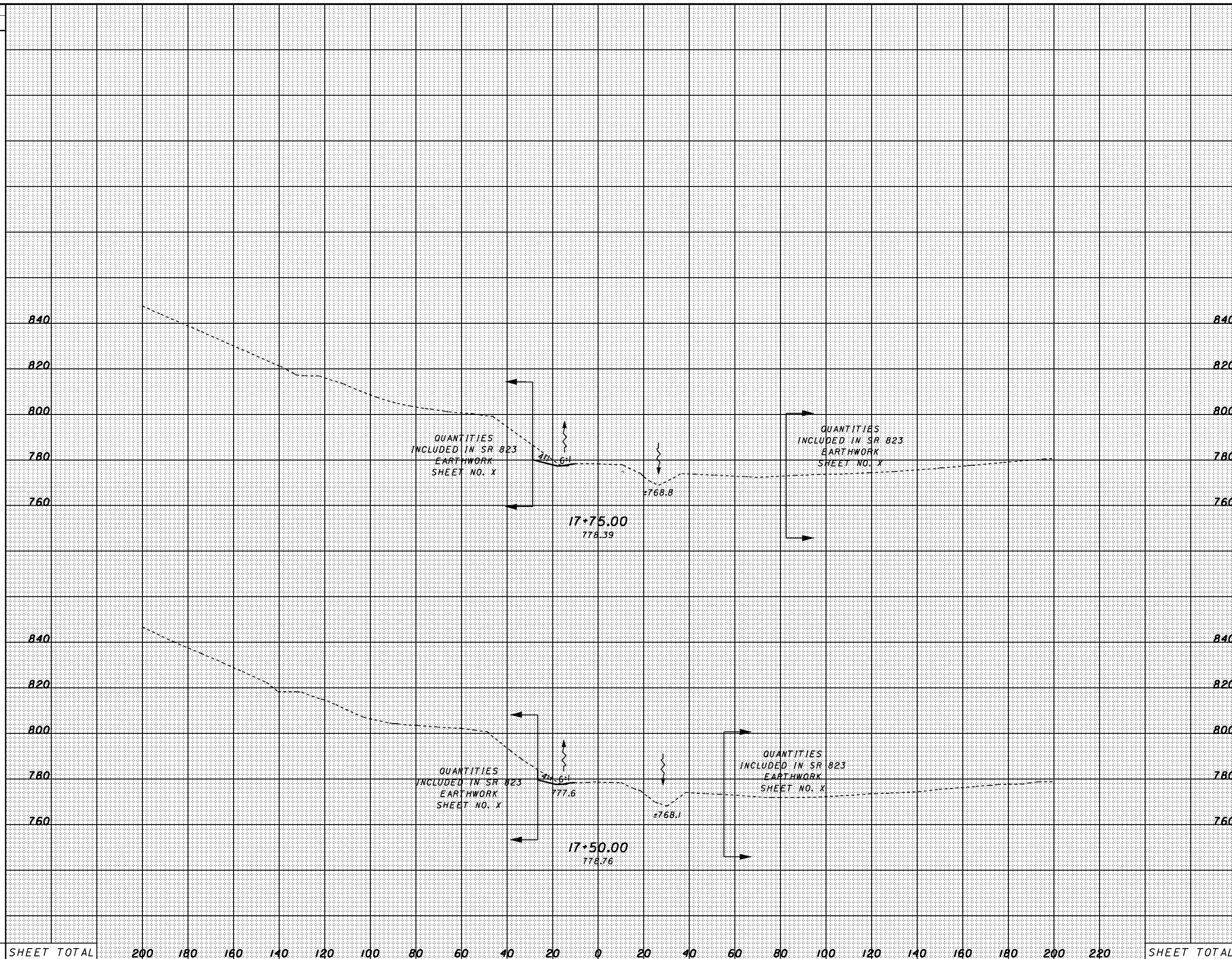
CROSS SECTIONS
CR29 - STA. 17+00.00 TO STA. 17+25.00

6400

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SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

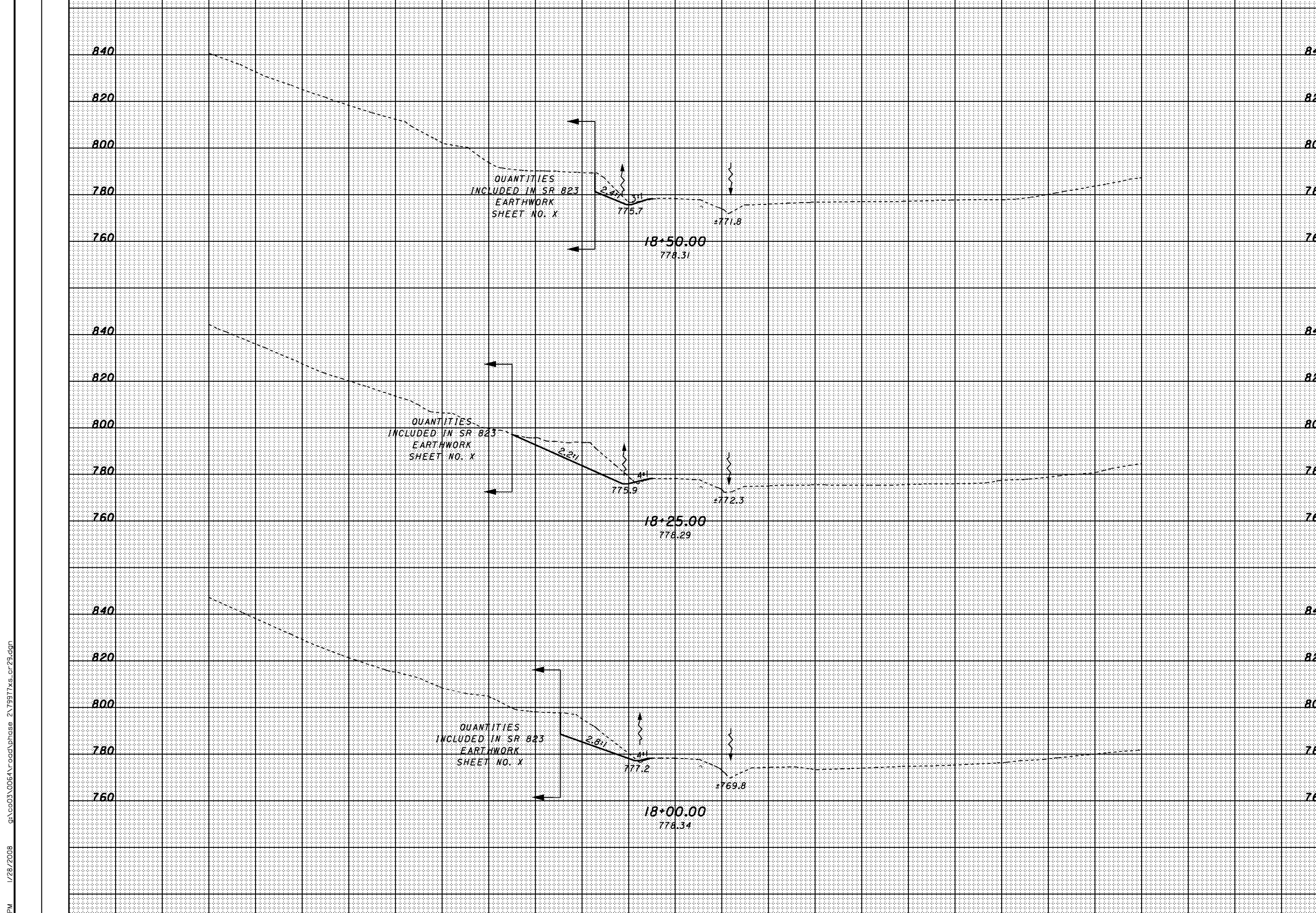
CROSS SECTIONS
CR29 - STA. 17+50.00 TO STA. 17+75.00

SCI-823-10.13

640E

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
CR29 - STA. 18+00.00 TO STA. 18+50.00

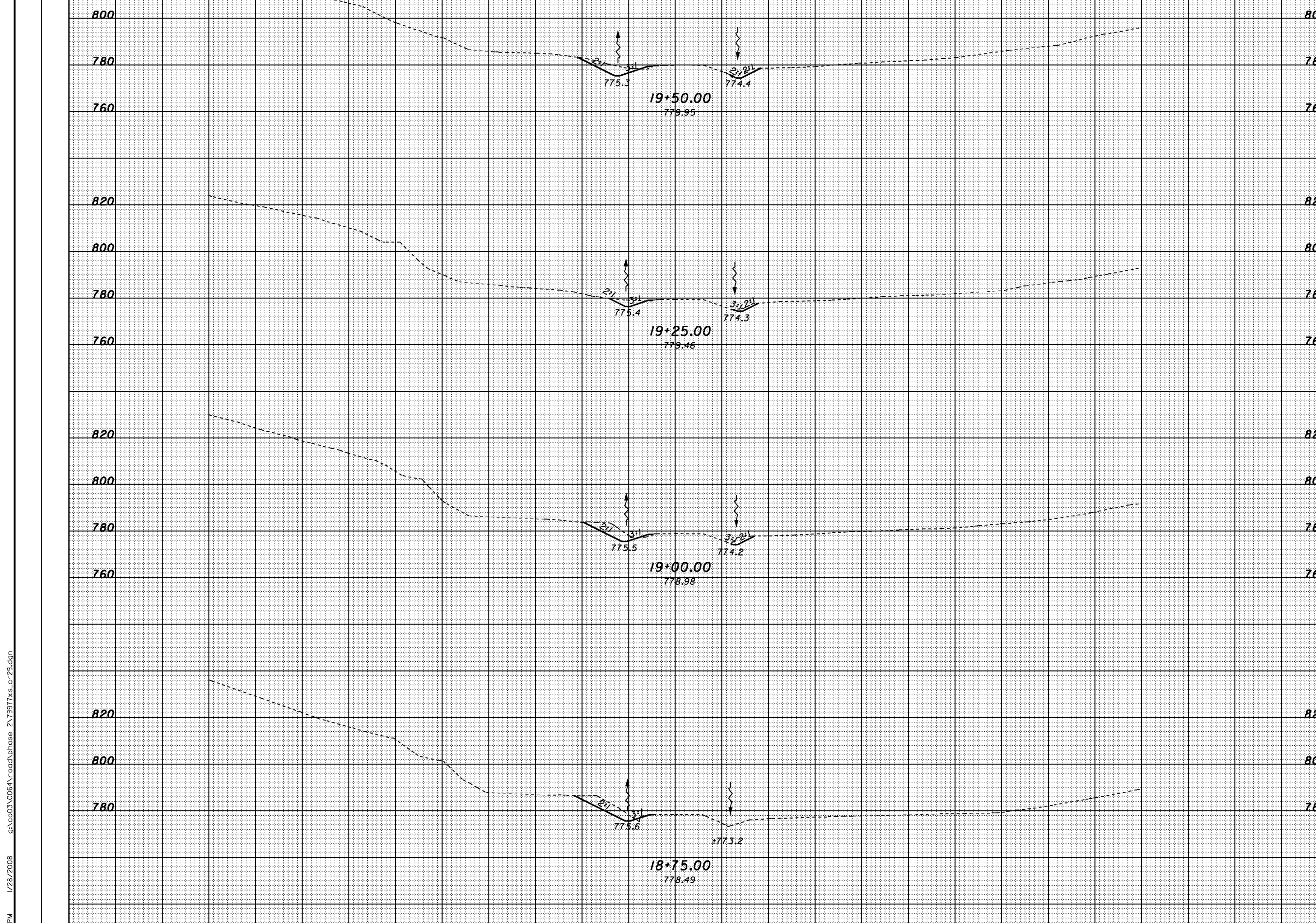
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640F

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SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
 CR29 - STA. 18+75.00 TO STA. 19+50.00

SCI-823-10.13

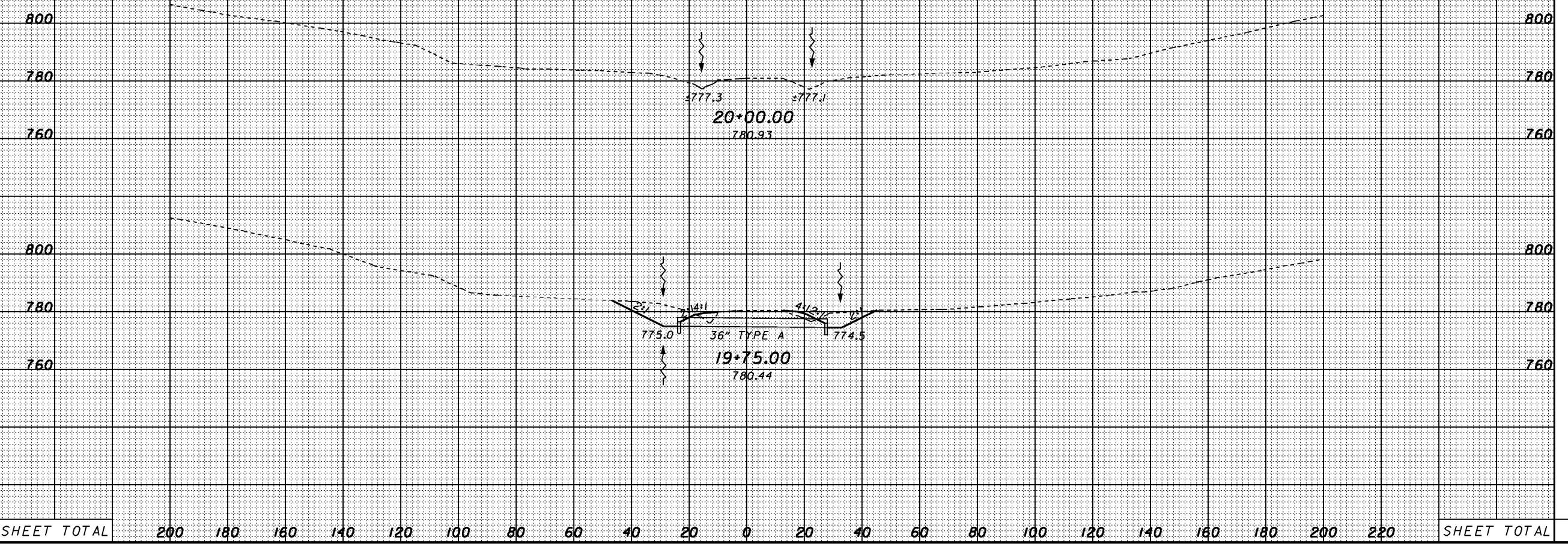
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SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
CHECKED



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS
CR29 - STA. 19+75.00 TO STA. 20+00.00

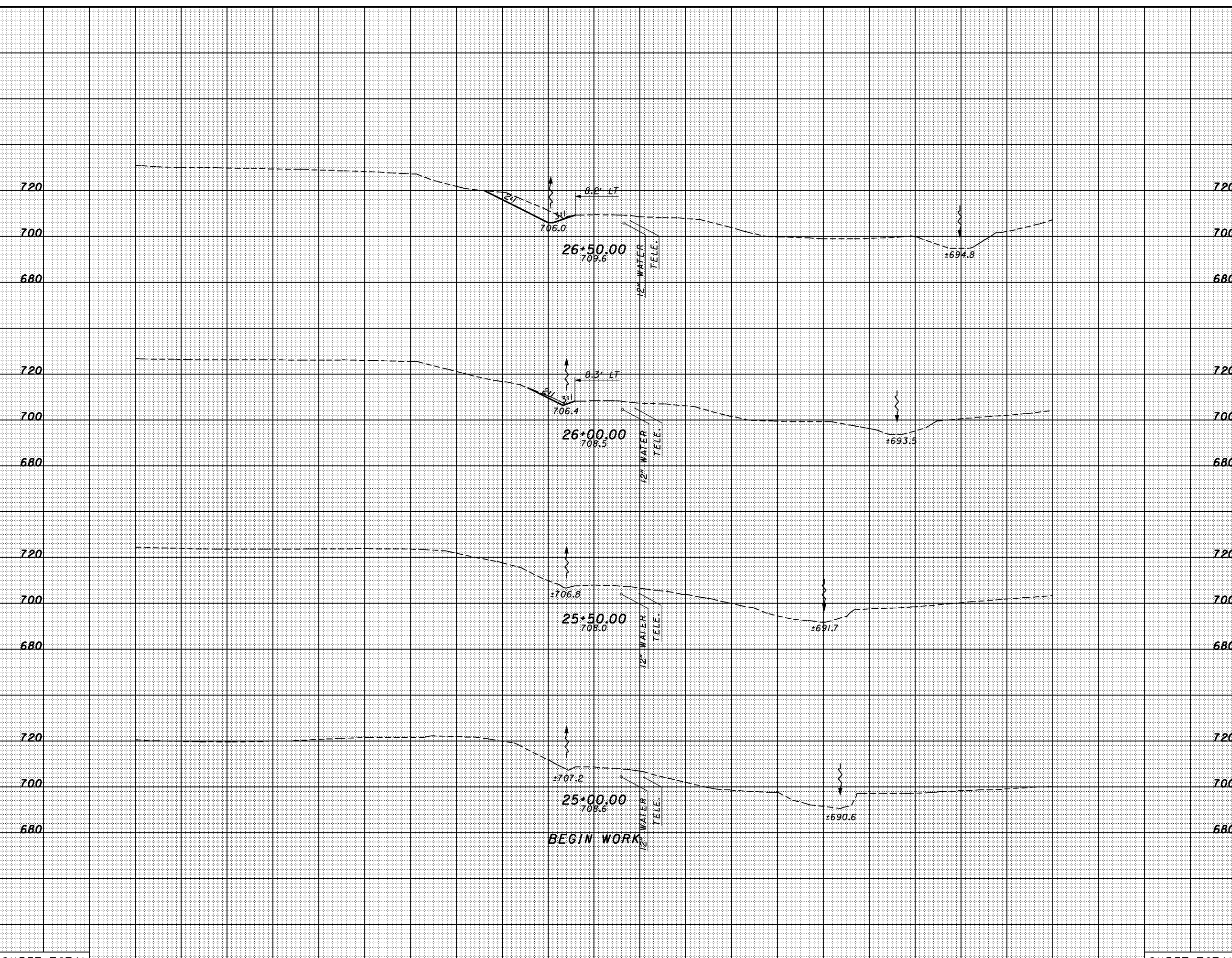
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640H

3:02:41 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_cr54.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



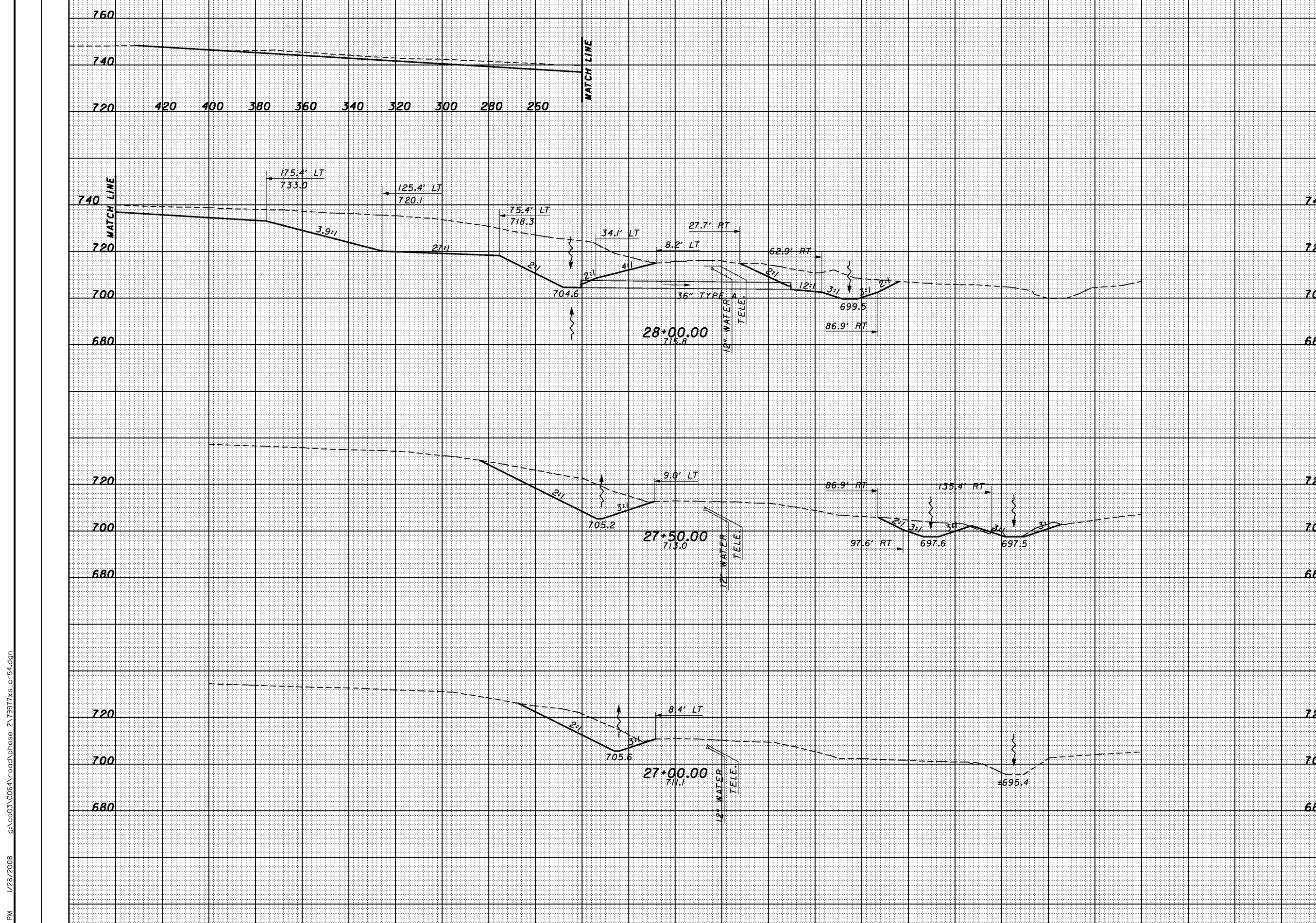
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS
CR54 - STA. 25+00.00 TO STA. 26+50.00

SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



3:02:49 PM 1/28/2008 g:\c003\0064\road\phase 2\7997\rs_cr54.dgn

SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

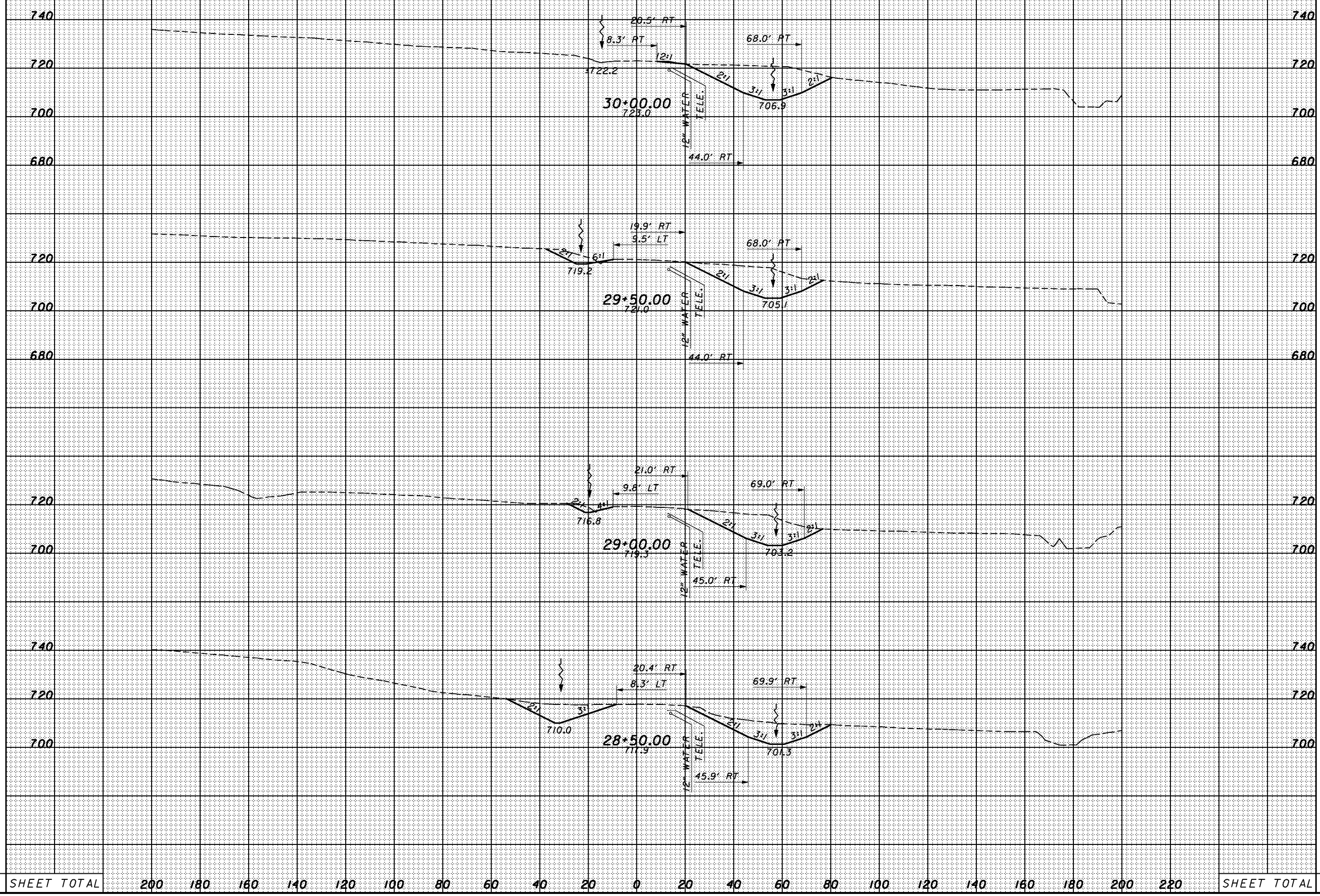
CROSS SECTIONS
CR54 - STA. 27+00.00 TO STA. 28+00.00

SCU-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

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SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

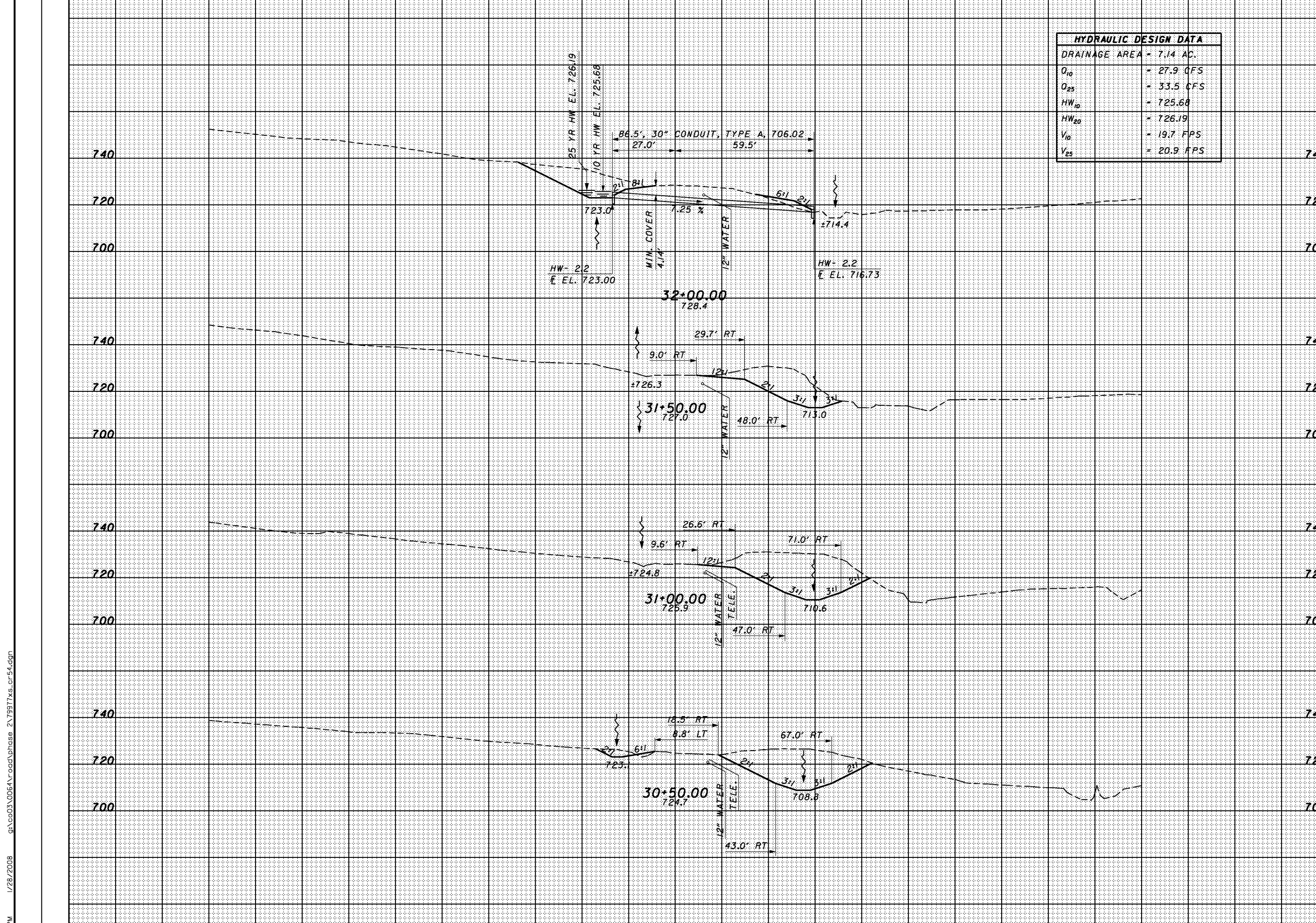
CROSS SECTIONS
CR54 - STA. 28+50.00 TO STA. 30+00.00

SCI-823-10.13

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

HYDRAULIC DESIGN DATA	
DRAINAGE AREA - 7.14 AC.	
Q_{10}	= 27.9 CFS
Q_{25}	= 33.5 CFS
HW_{10}	= 725.68
HW_{20}	= 726.19
V_{10}	= 19.7 FPS
V_{25}	= 20.9 FPS



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

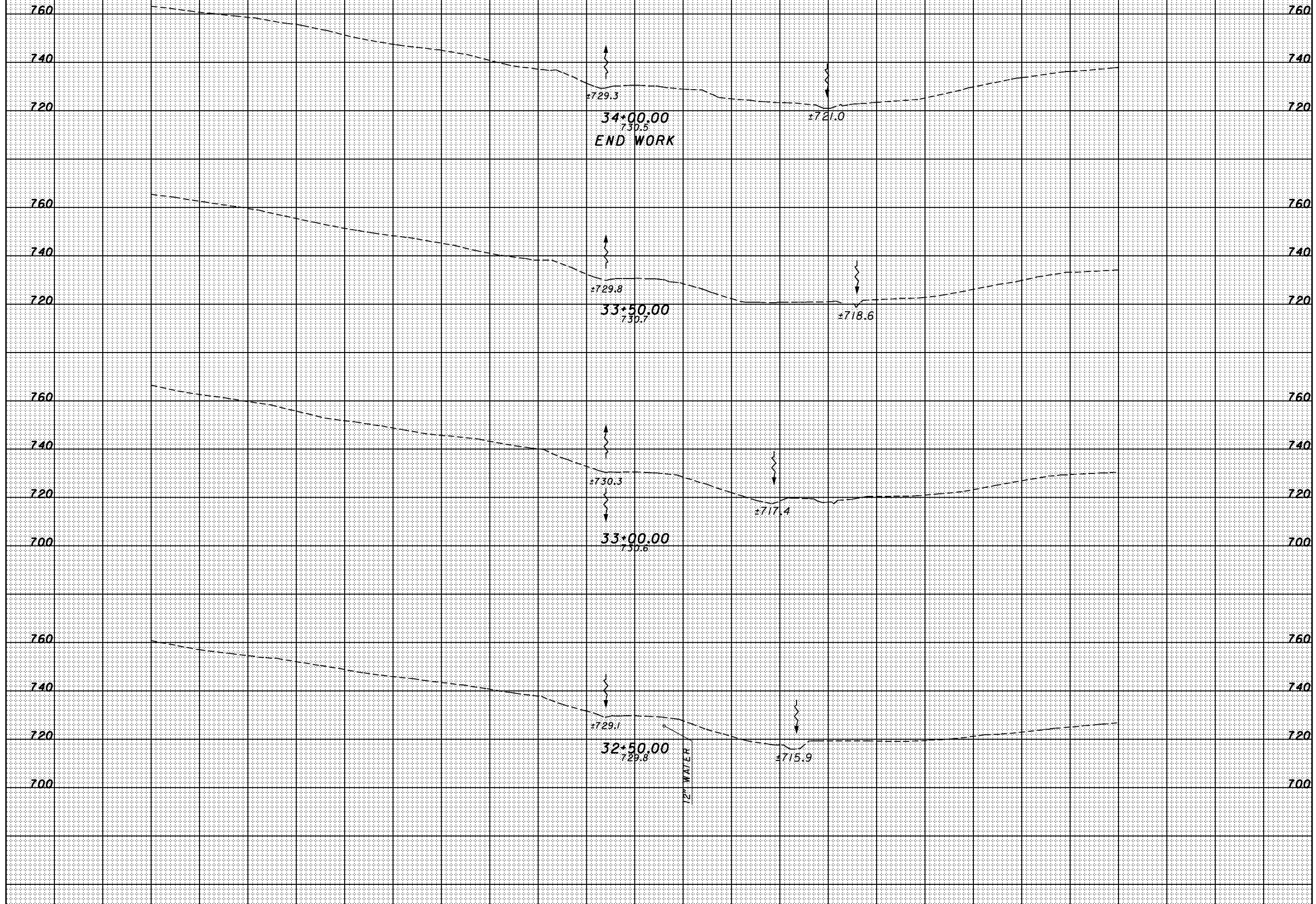
CROSS SECTIONS
CR54 - STA. 30+50.00 TO STA. 32+00.00
SCI-823-10.13

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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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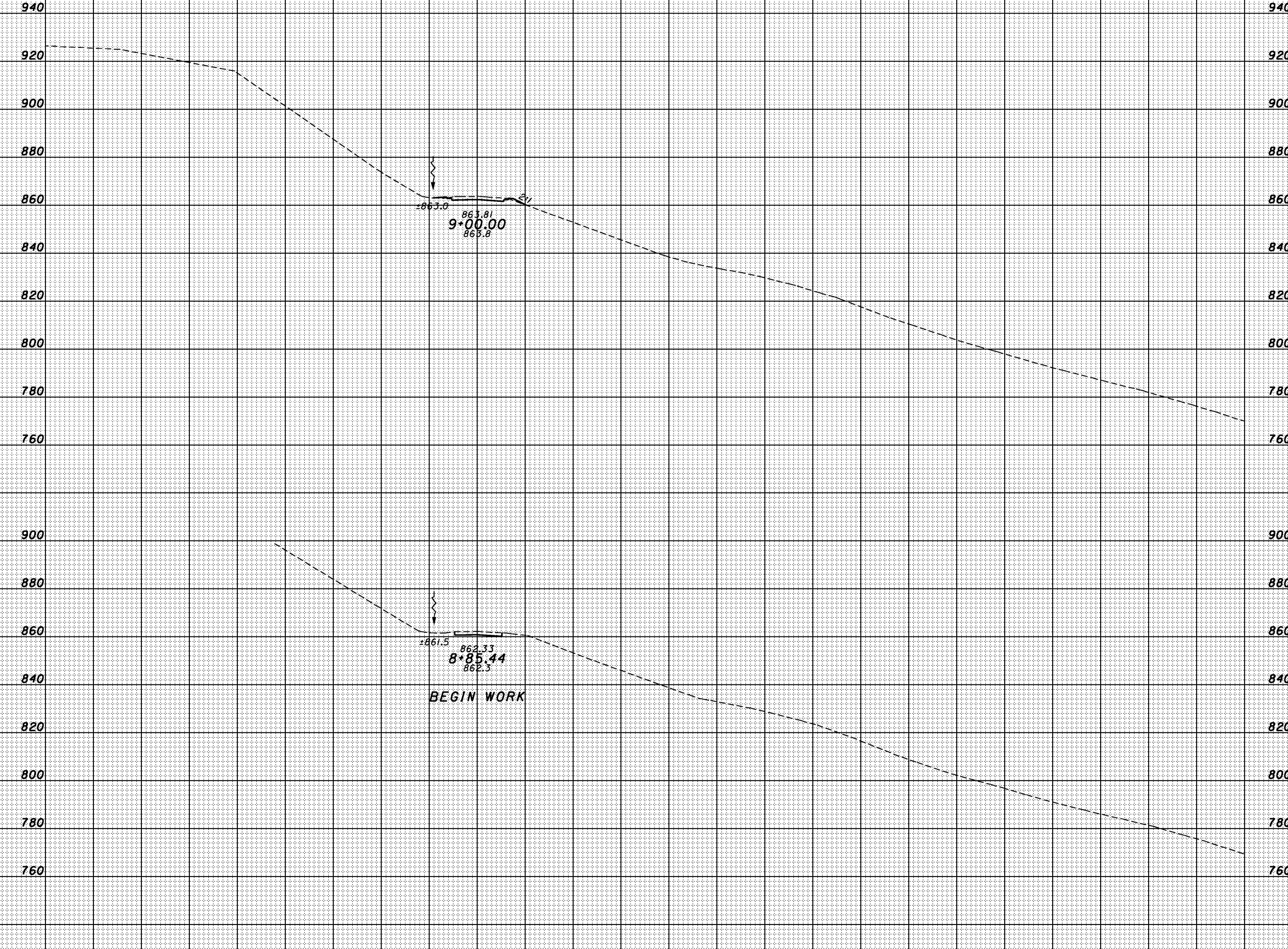
CROSS SECTIONS
CR54 - STA. 32+50.00 TO STA. 34+00.00

SCI-823-10.13

3:02:53 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_cr184.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	SHEET TOTAL
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CROSS SECTIONS
CR184 - STA. 8+85.44 TO STA. 9+00.00

SCI-823-10.13

3:02:55 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_cr184.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

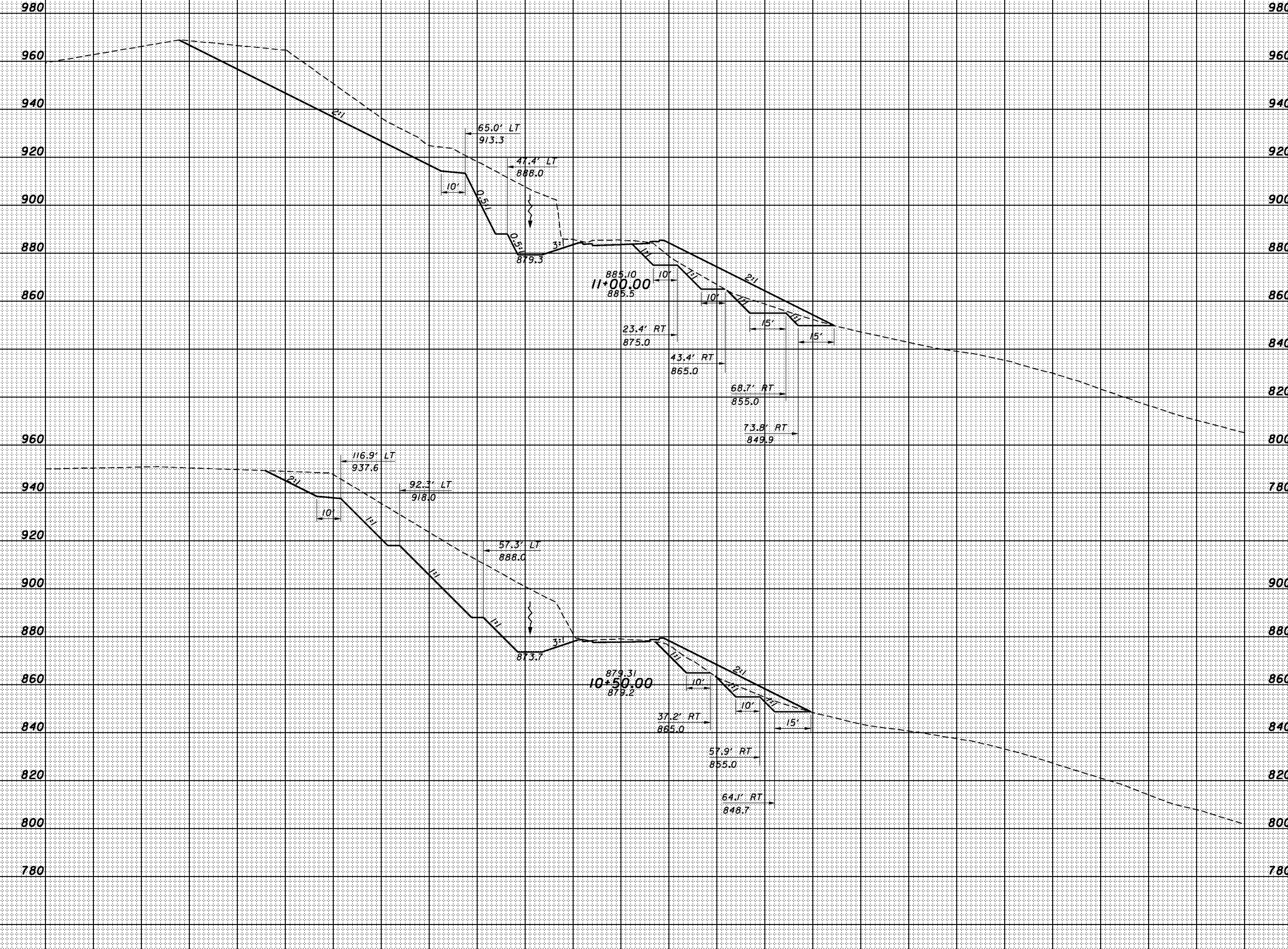
CALCULATED	CHECKED
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CROSS SECTIONS
CR184 - STA. 10+50.00 TO STA. 11+00.00

SCI-823-10.13

648

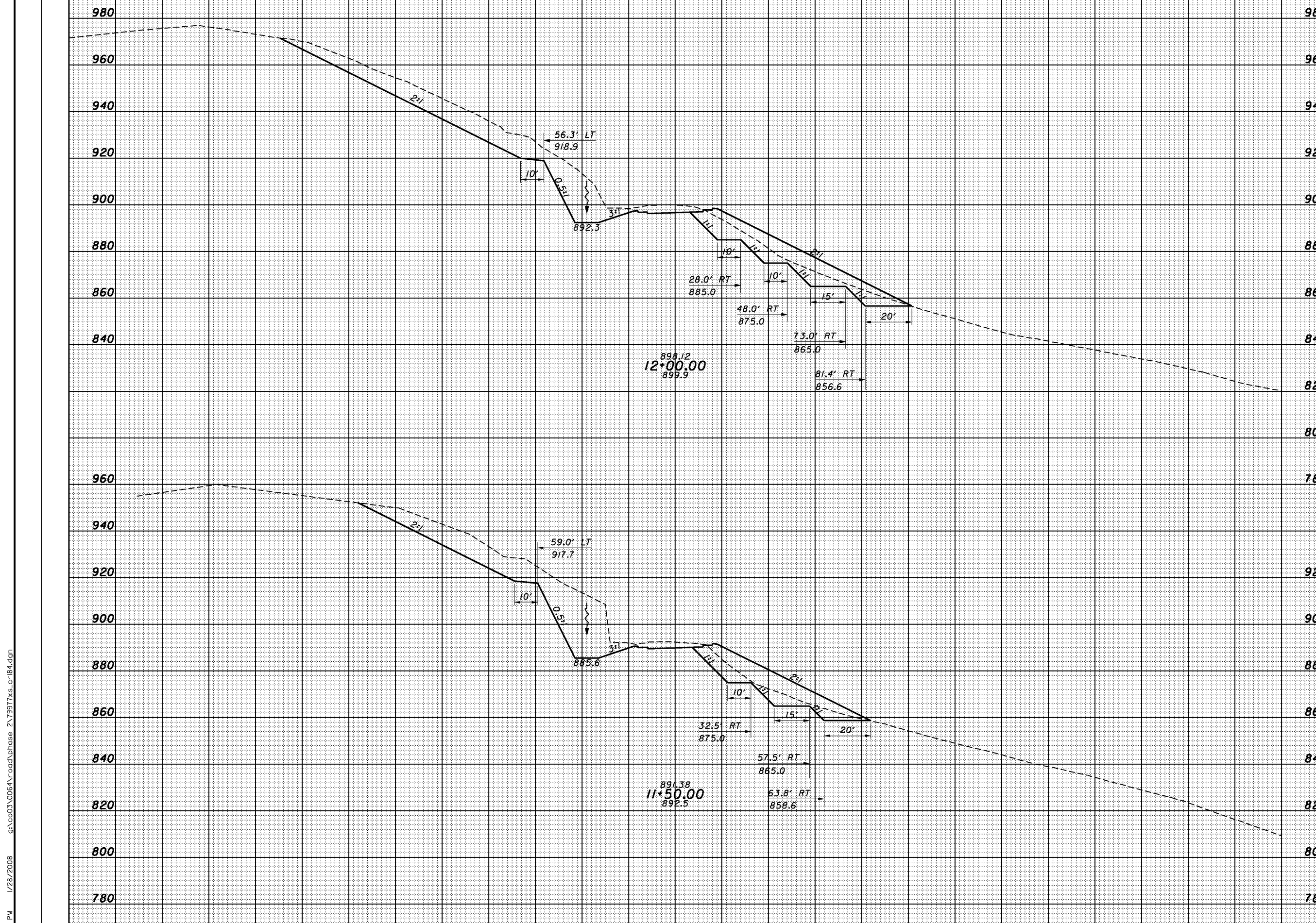
980	980
960	960
940	940
920	920
900	900
880	880
860	860
840	840
820	820
800	800
780	780



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
-------------	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-------------

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



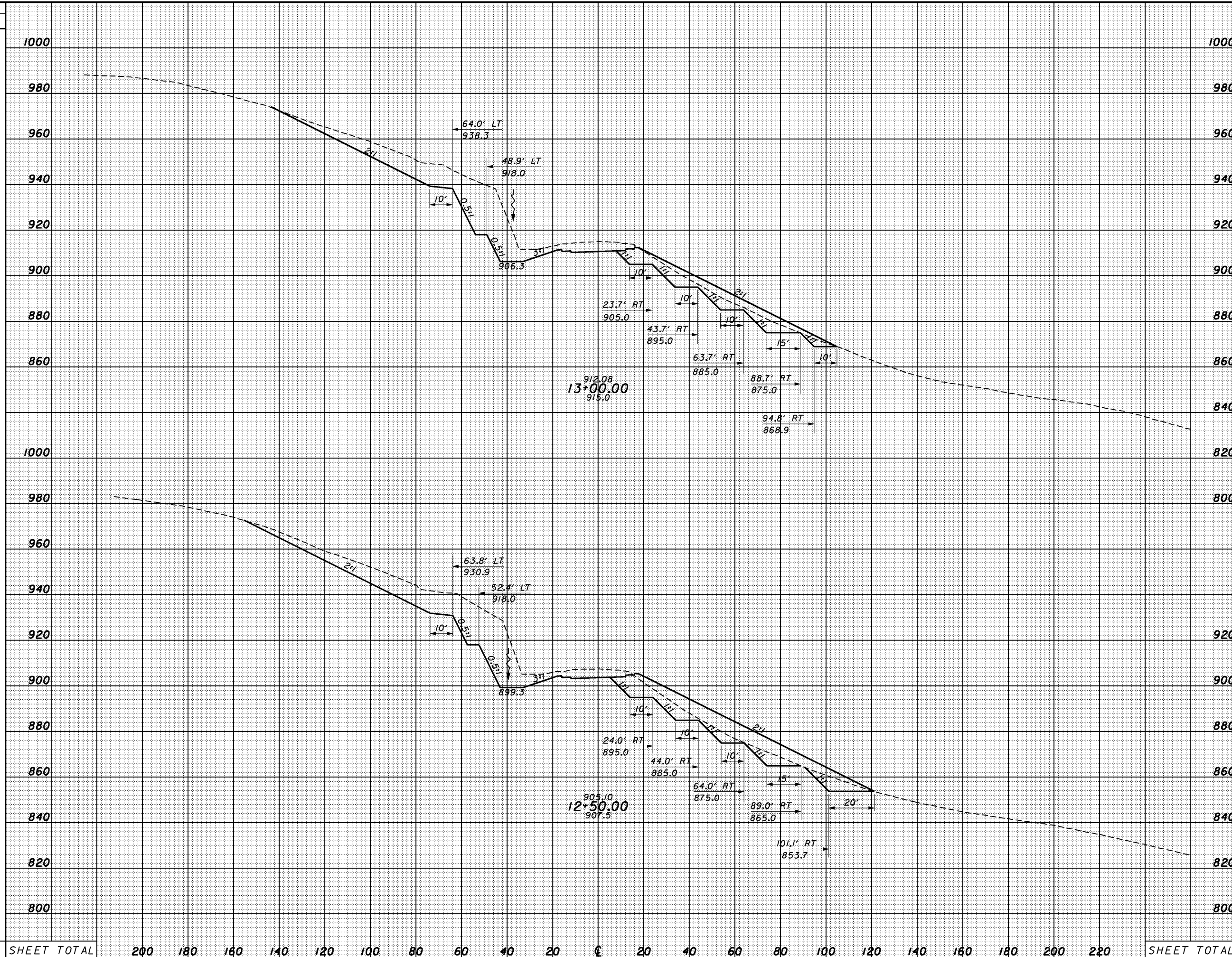
CROSS SECTIONS
CR184 - STA. 11+50.00 TO STA. 12+00.00

SCI-823-10.13

3:02:56 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_cr184.dgn

SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING
 END WIDTH SO. YDS.
 3:02:57 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_cr184.dgn



END	AREA		VOLUME		CALCULATED	CHECKED																	
	CUT	FILL	CUT	FILL																			
1000																							
980																							
960																							
940																							
920																							
900																							
880																							
860																							
840																							
820																							
800																							
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

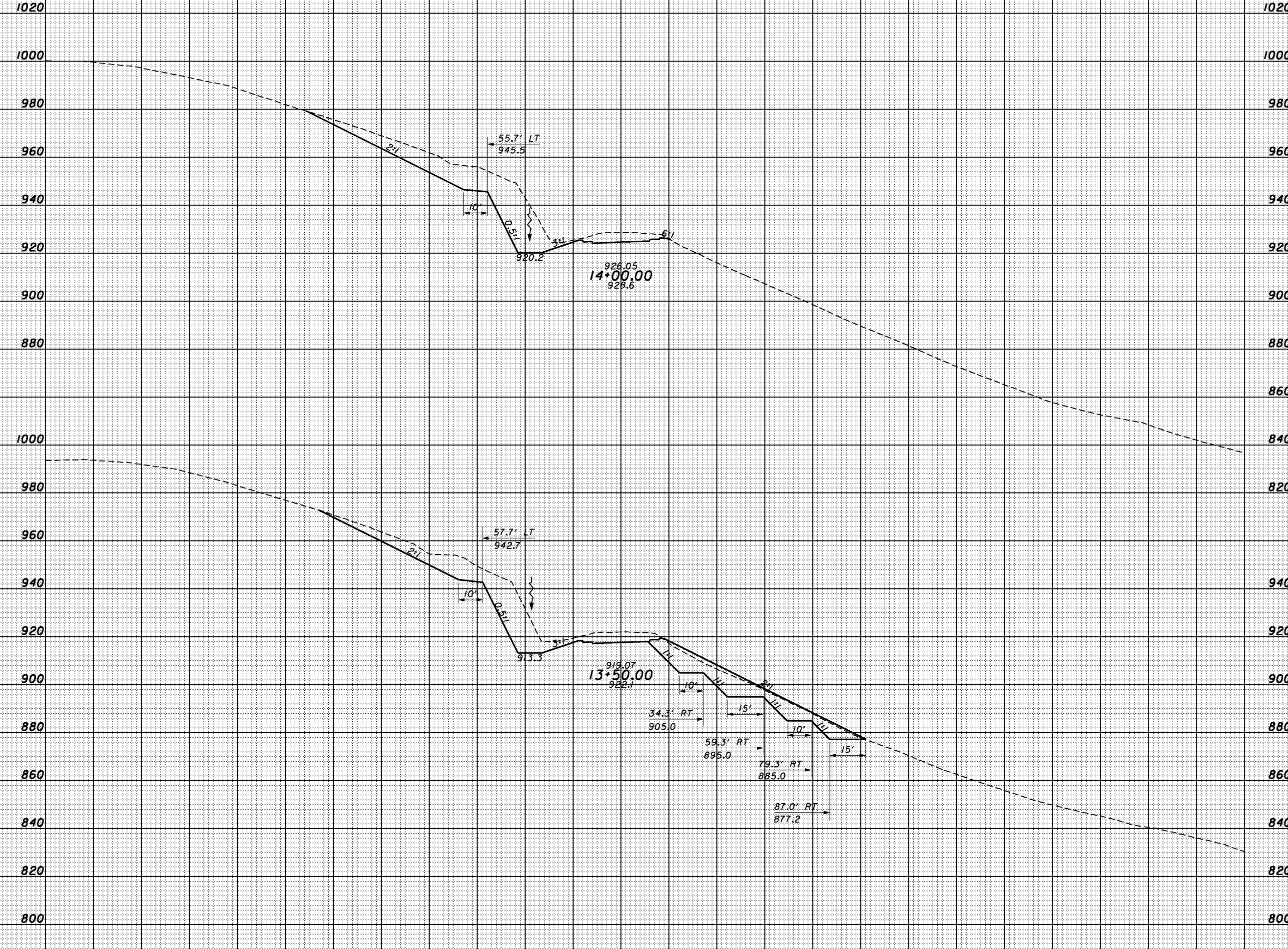
CROSS SECTIONS
 CR184 - STA. 12+50.00 TO STA. 13+00.00

SCI-823-10.13

3:02:58 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_cr184.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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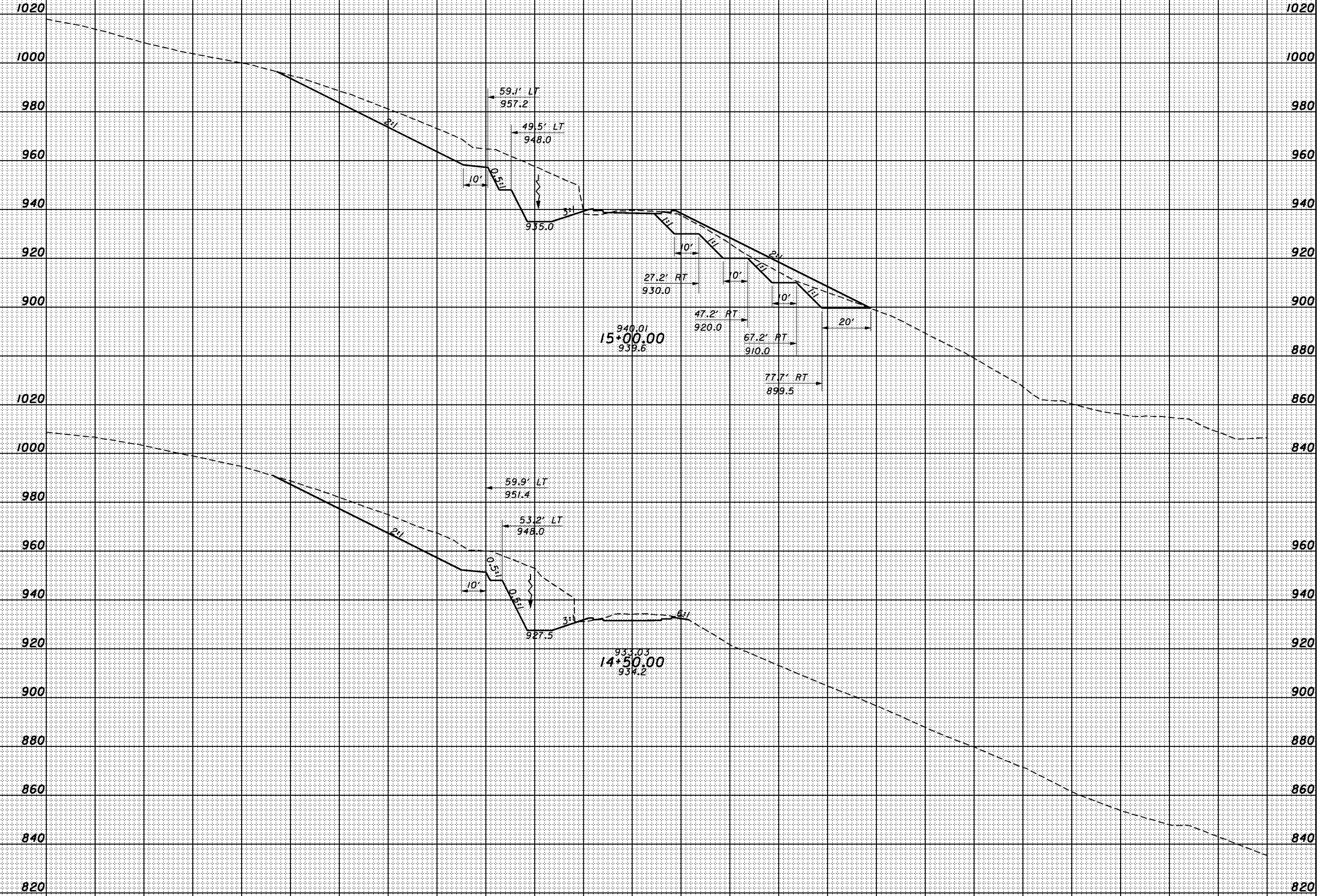
CROSS SECTIONS
CR184 - STA. 13+50.00 TO STA. 14+00.00

SCI-823-10.13

3:02:59 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_cr184.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS
CR184 - STA. 14+50.00 TO STA. 15+00.00

SCI-823-10.13

3:03:00 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs-cr184.dgn

SEEDING	
END WIDTH	SO. YDS.

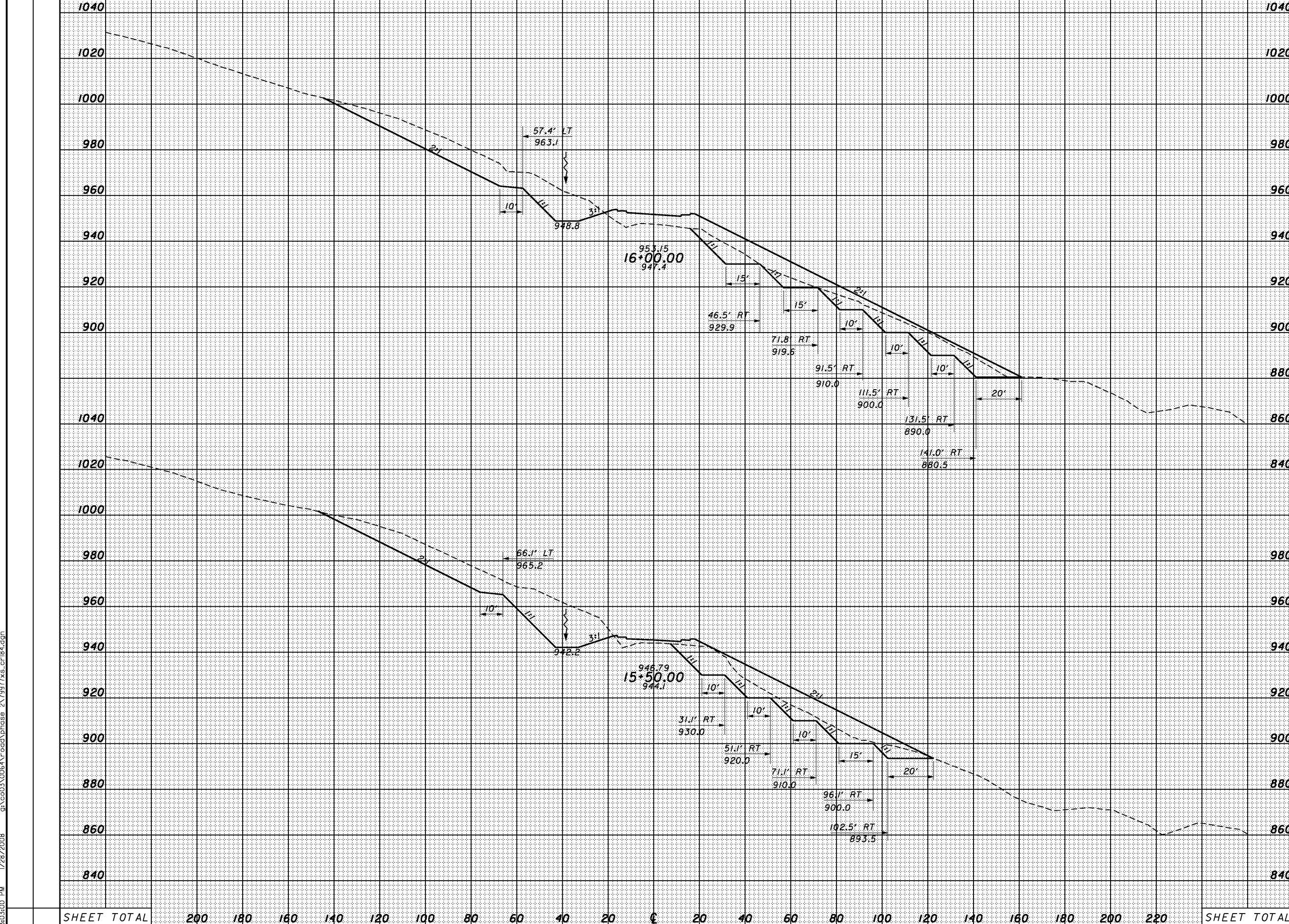
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED

CROSS SECTIONS
CR184 - STA. 15+50.00 TO STA. 16+00.00

SCI-823-10.13

653



END STA.	AREA		VOLUME	
	CUT	FILL	CUT	FILL
1040				
1020				
1000				
980				
960				
940				
920				
900				
880				
860				
840				
SHEET TOTAL	200	180	160	140
	120	100	80	60
	40	20	0	20
	20	40	60	80
	100	120	140	160
	180	200	220	
SHEET TOTAL				

3:03:00 PM 1/28/2008 g:\c03\0064\road\phase 2\79977xs_cr184.dgn

SEEDING	
END WIDTH	SO. YDS.

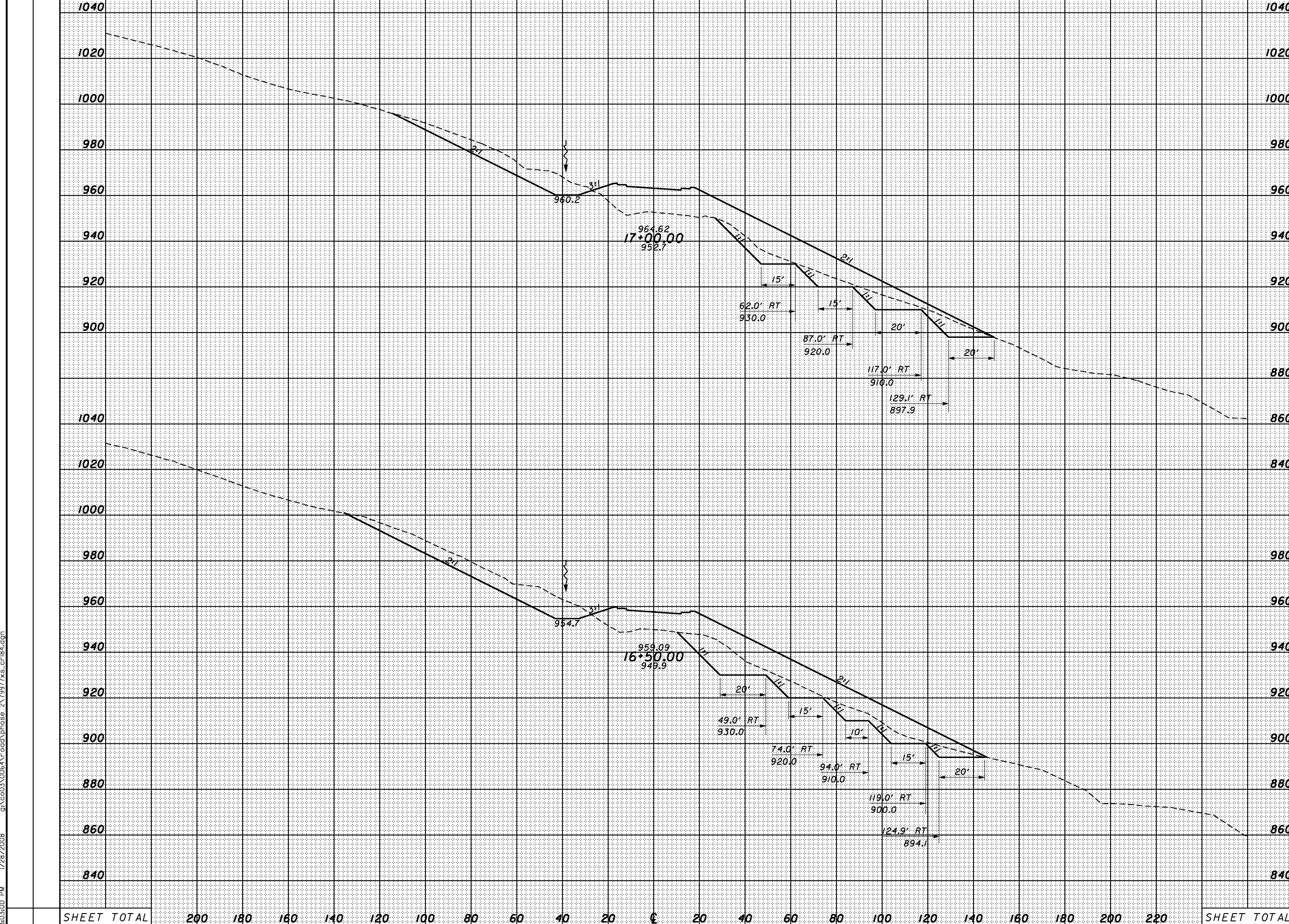
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED

CROSS SECTIONS
CR184 - STA. 16+50.00 TO STA. 17+00.00

SCI-823-10.13

654



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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3:03:01 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_cr184.dgn

SEEDING	
END WIDTH	SO. YDS.

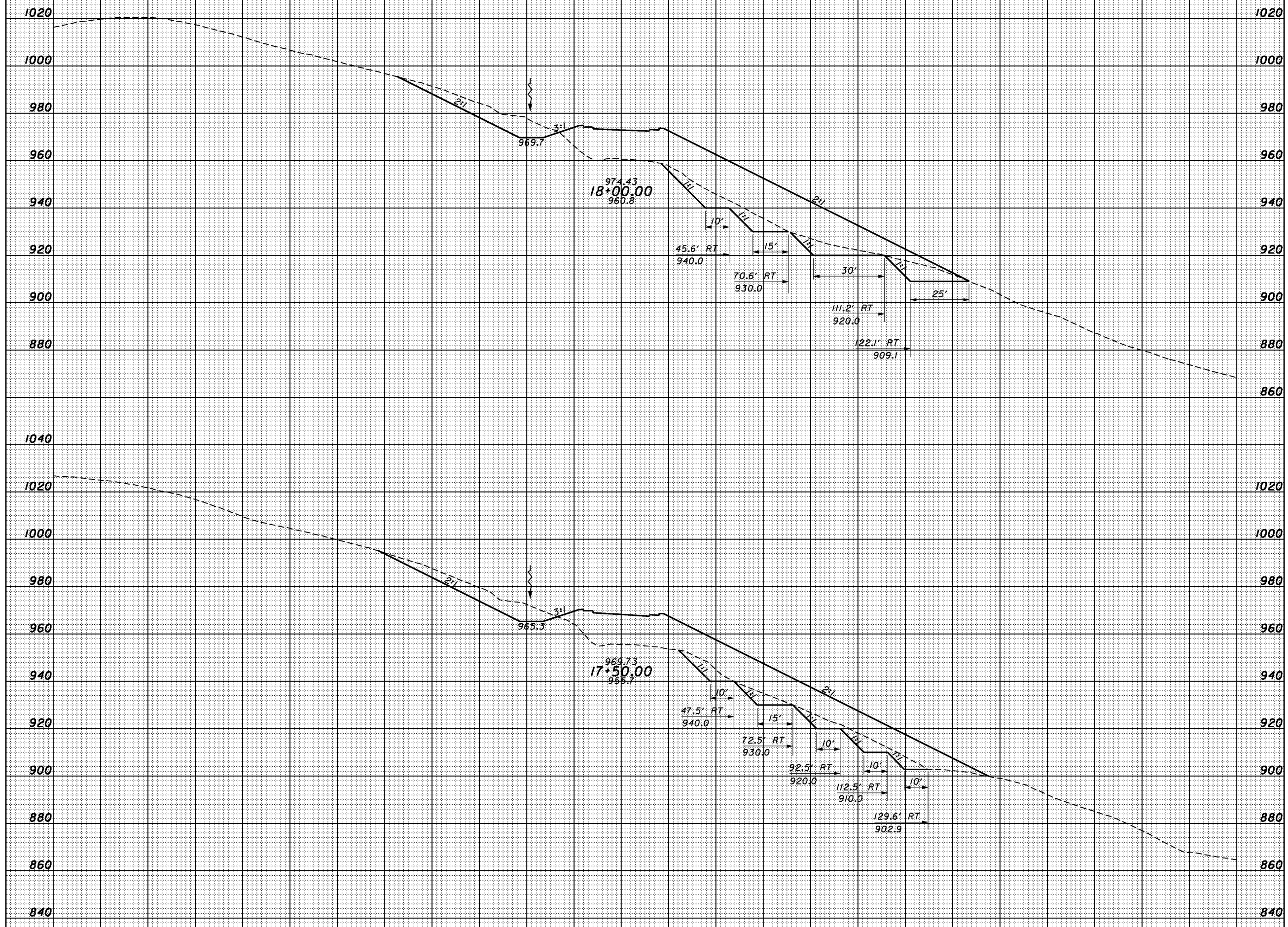
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED

CROSS SECTIONS
CR184 - STA. 17+50.00 TO STA. 18+00.00

SCI-823-10.13

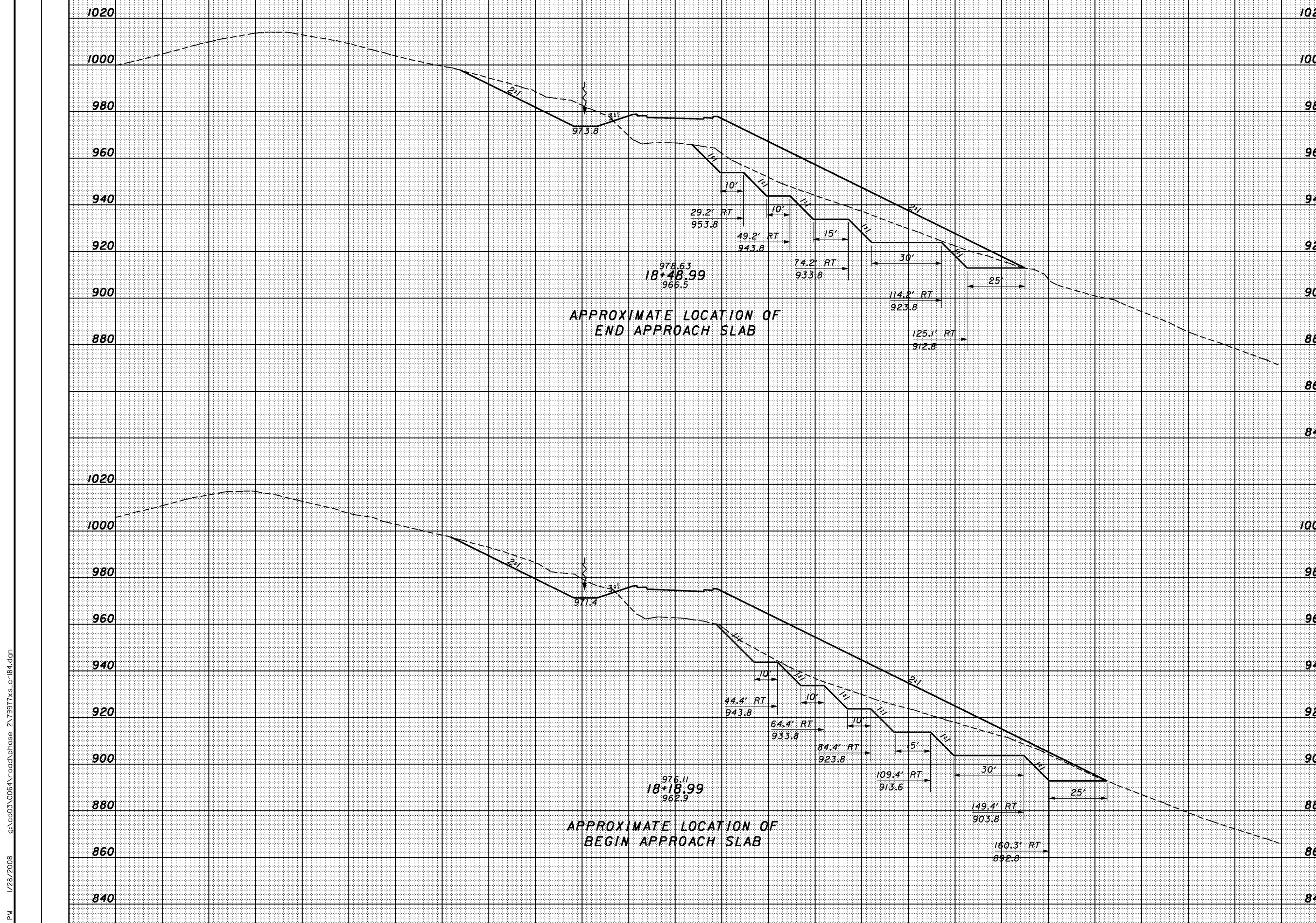
655



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED



APPROXIMATE LOCATION OF
END APPROACH SLAB

APPROXIMATE LOCATION OF
BEGIN APPROACH SLAB

CROSS SECTIONS
CR184 - STA. 18+18.99 TO STA. 18+48.99

SCI-823-10.13

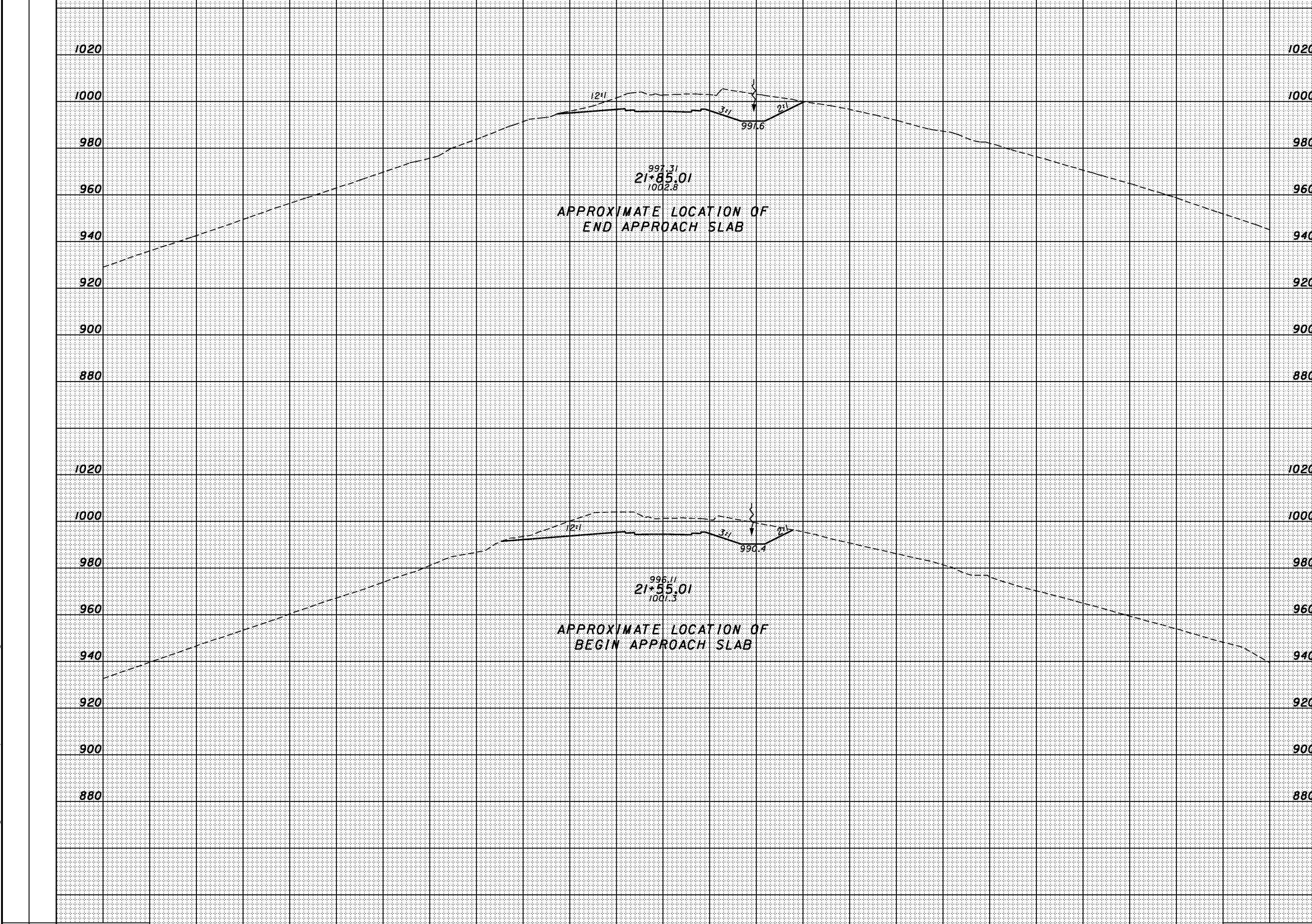
656

3:03:02 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_cr184.dgn

SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	±	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SEEDING	END WIDTH	SO. YDS.	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

CROSS SECTIONS
CR184 - STA. 21+55.01 TO STA. 21+85.01

SCI-823-10.13

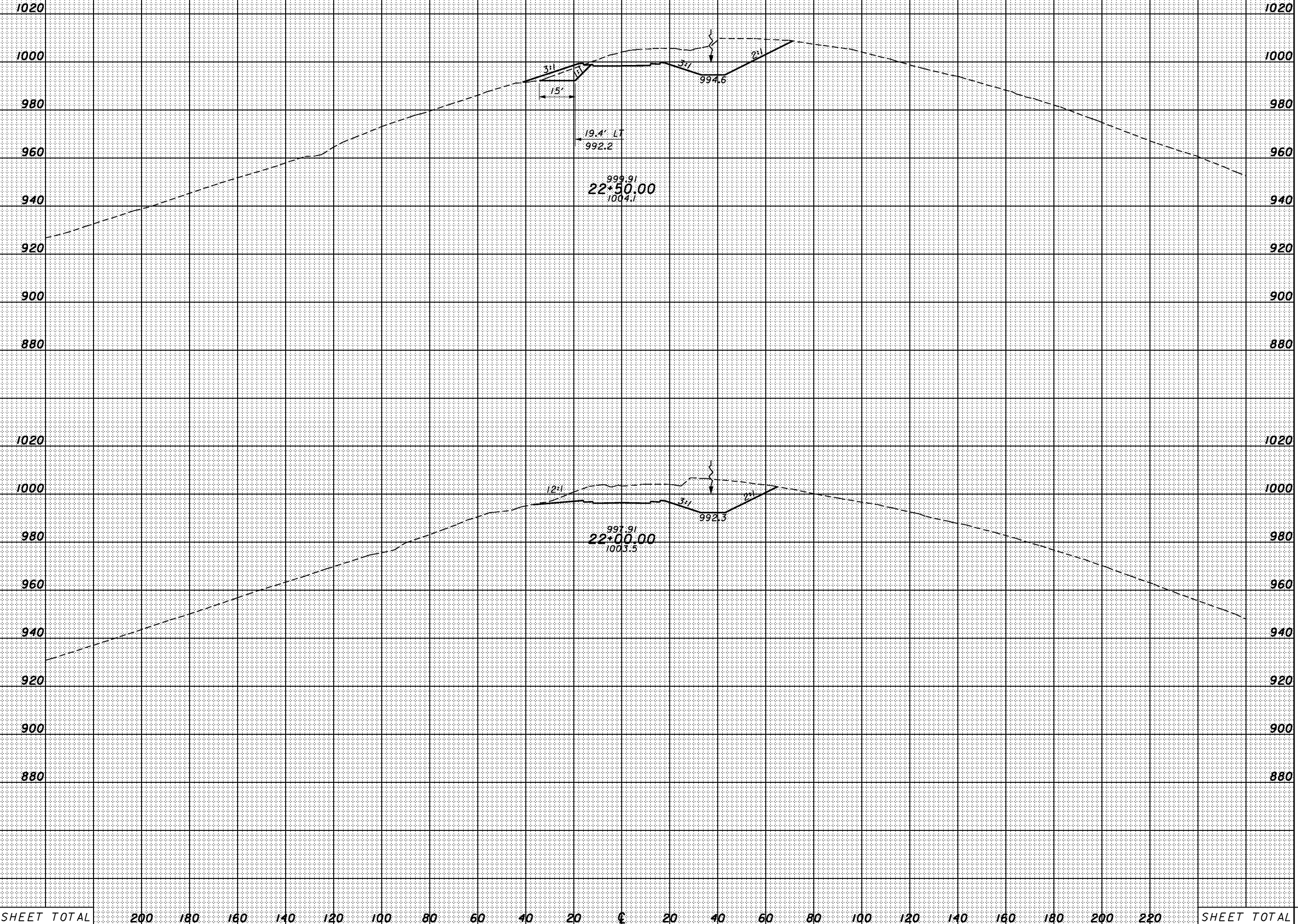
657

3:03:03 PM 1/28/2008 g:\c03\0064\road\phase 2\7977xs_cr184.dgn

3:03:04 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_cr184.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

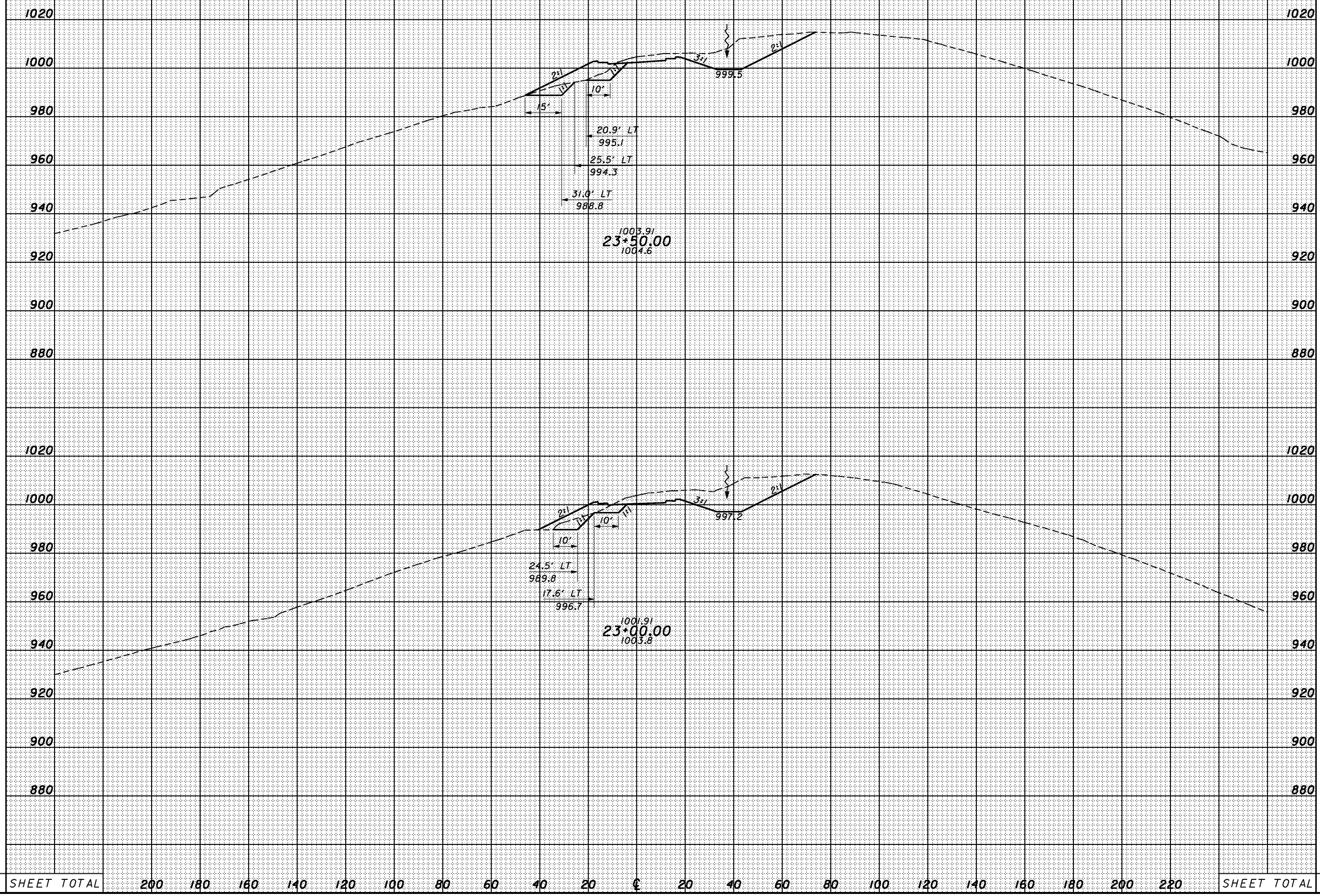
CROSS SECTIONS
CR184 - STA. 22+00.00 TO STA. 22+50.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED CHECKED

3:03:05 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_cr184.dgn



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

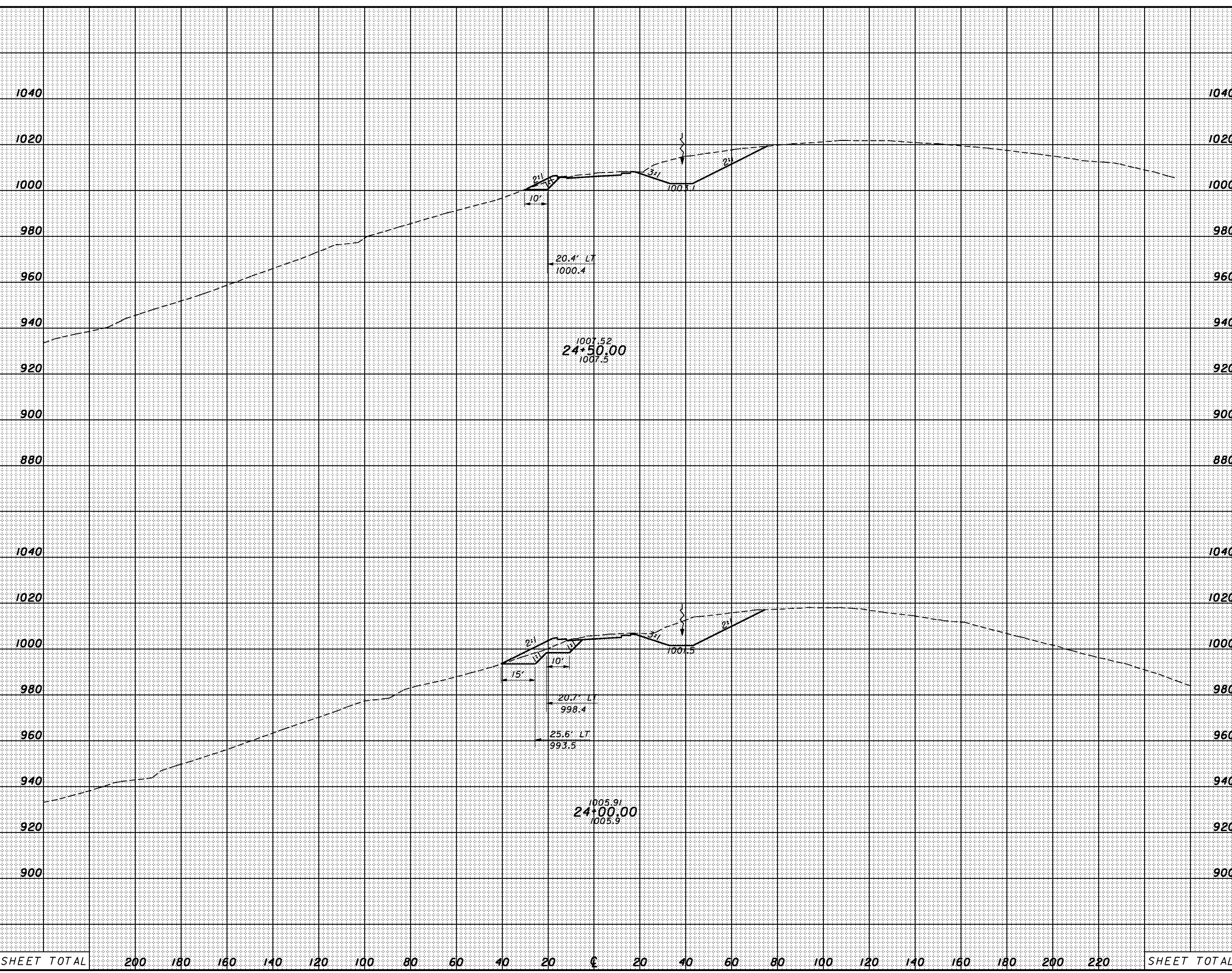
CROSS SECTIONS
CR184 - STA. 23+00.00 TO STA. 23+50.00

SCI-823-10.13

3:03:06 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_cr184.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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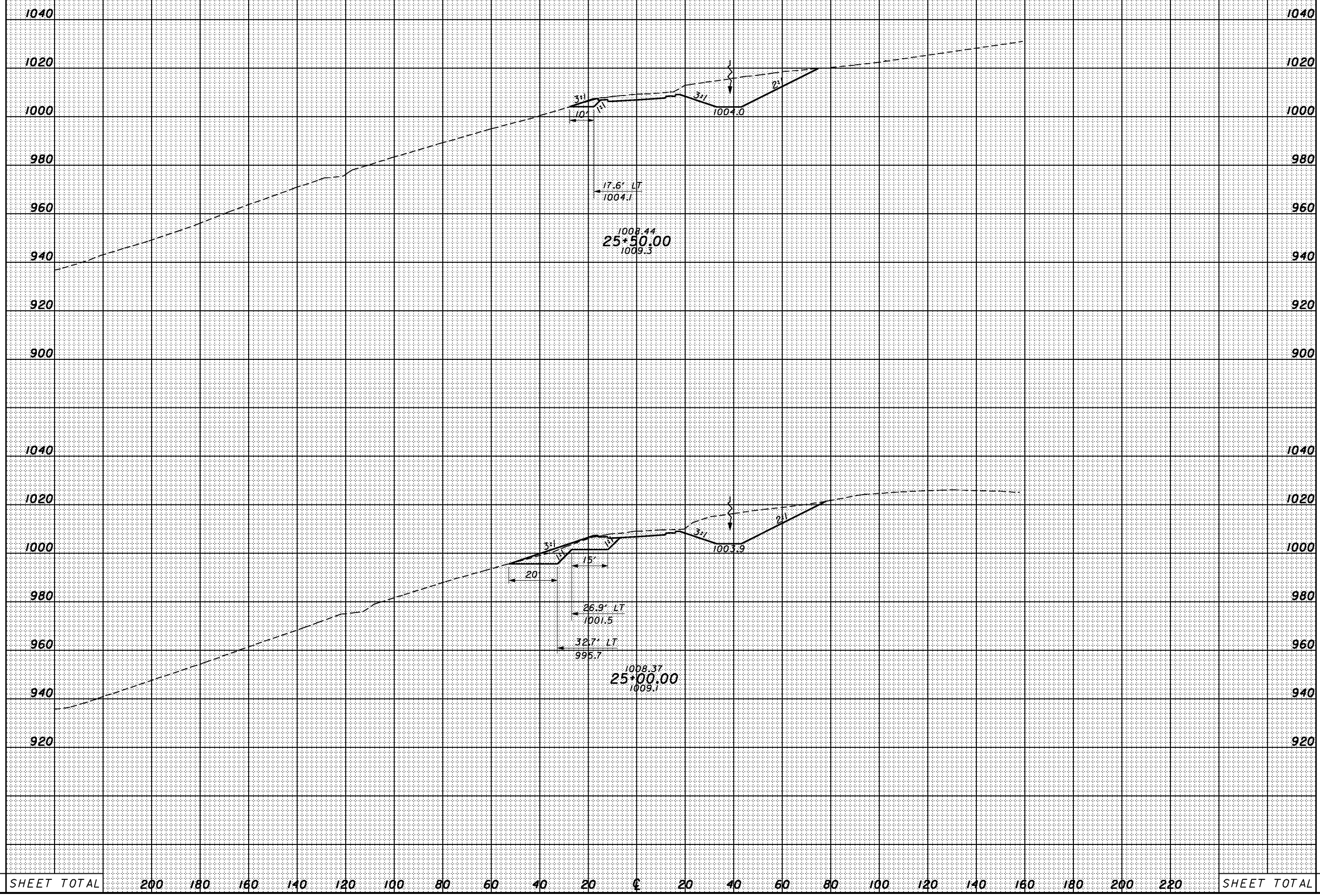
CROSS SECTIONS
CR184 - STA. 24+00.00 TO STA. 24+50.00

SCI-823-10.13

SEEDING
END SO.
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

3:03:07 PM 1/28/2008 g:\c003\0064\road\phase 2\79977xs_cr184.dgn



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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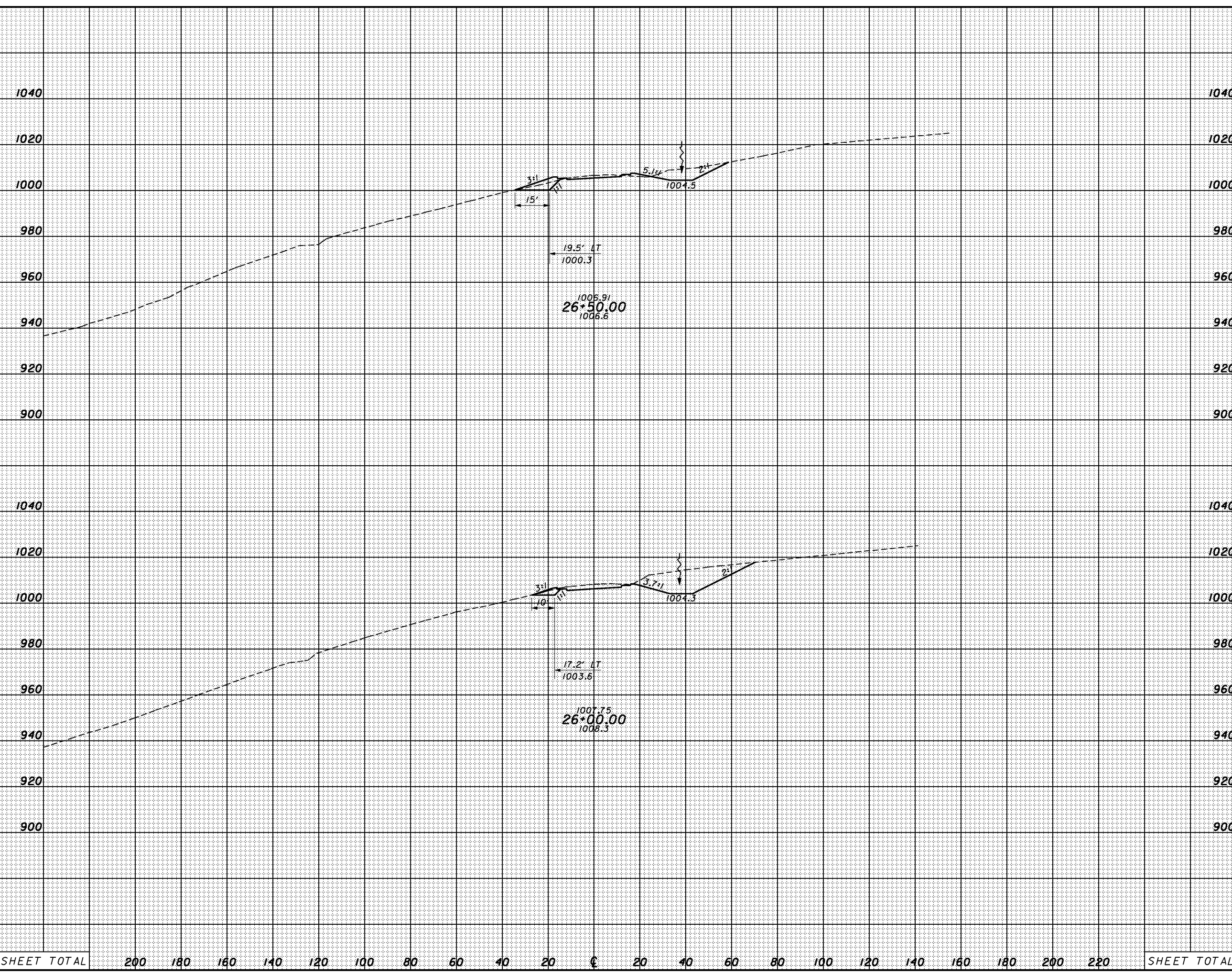
CROSS SECTIONS
CR184 - STA. 25+00.00 TO STA. 25+50.00

SCI-823-10.13

3:03:08 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs-cr184.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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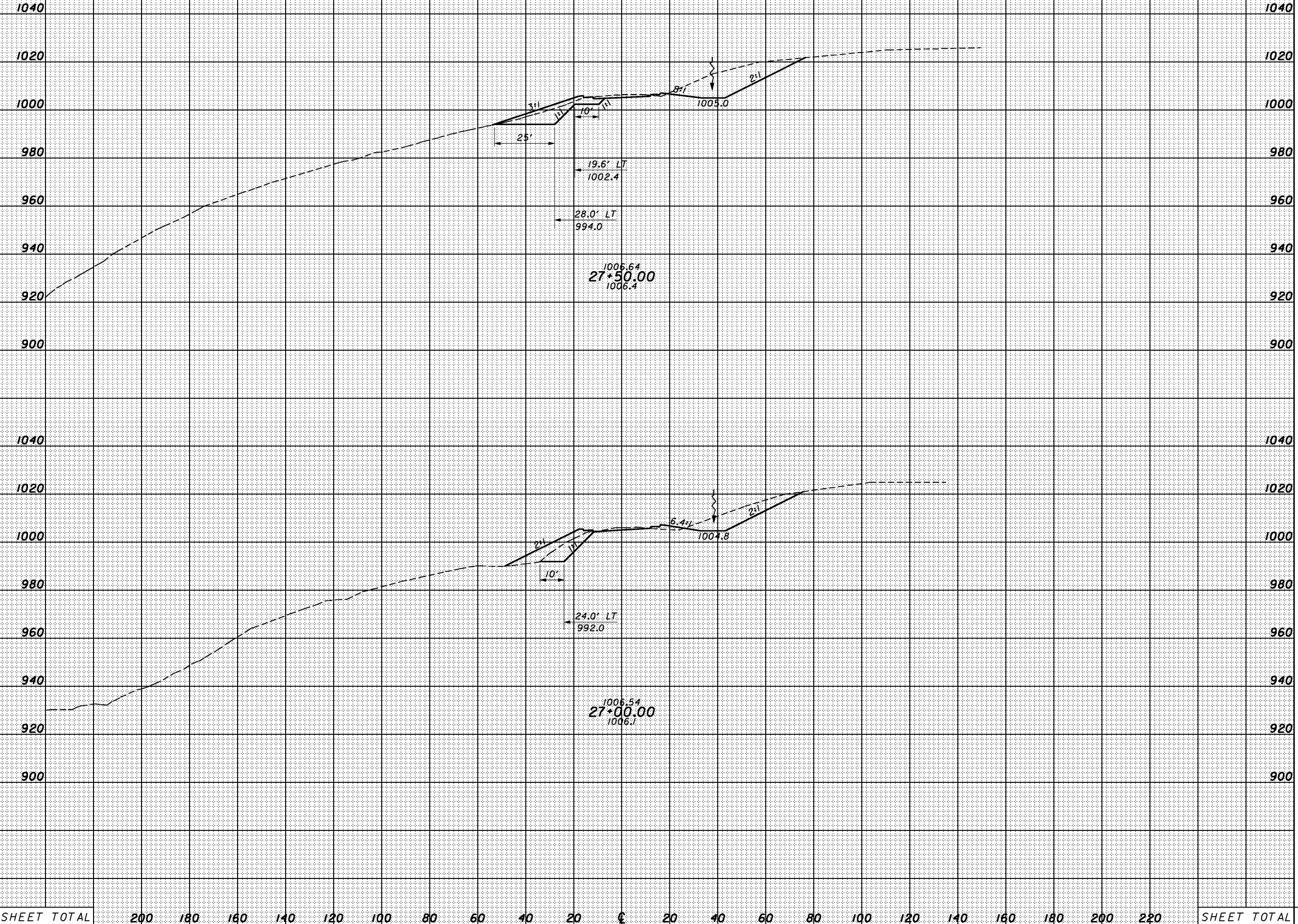
CROSS SECTIONS
CR184 - STA. 26+00.00 TO STA. 26+50.00

SCI-823-10.13

3:03:09 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_cr184.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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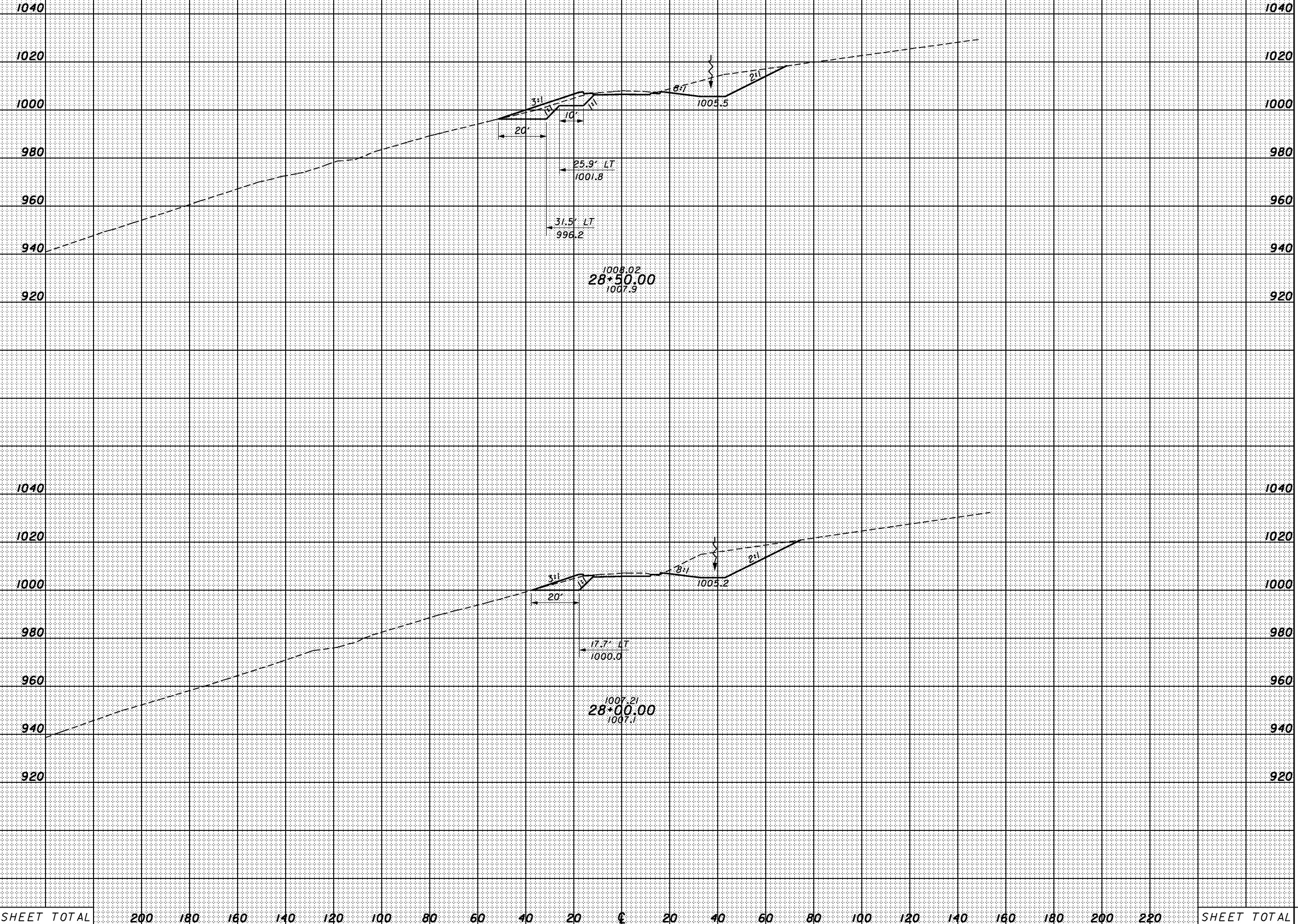
CROSS SECTIONS
CR184 - STA. 27+00.00 TO STA. 27+50.00

SCI-823-10.13

3:03:10 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_cr184.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS
CR184 - STA. 28+00.00 TO STA. 28+50.00

SCI-823-10.13

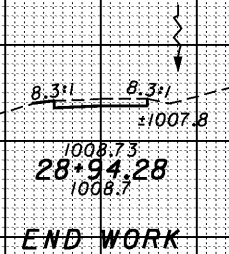
3:03:10 PM 1/28/2008 g:\co03\0064\road\phase 2\79977xs_cr184.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

1040
1020
1000
980
960
940
920

1040
1020
1000
980
960
940
920



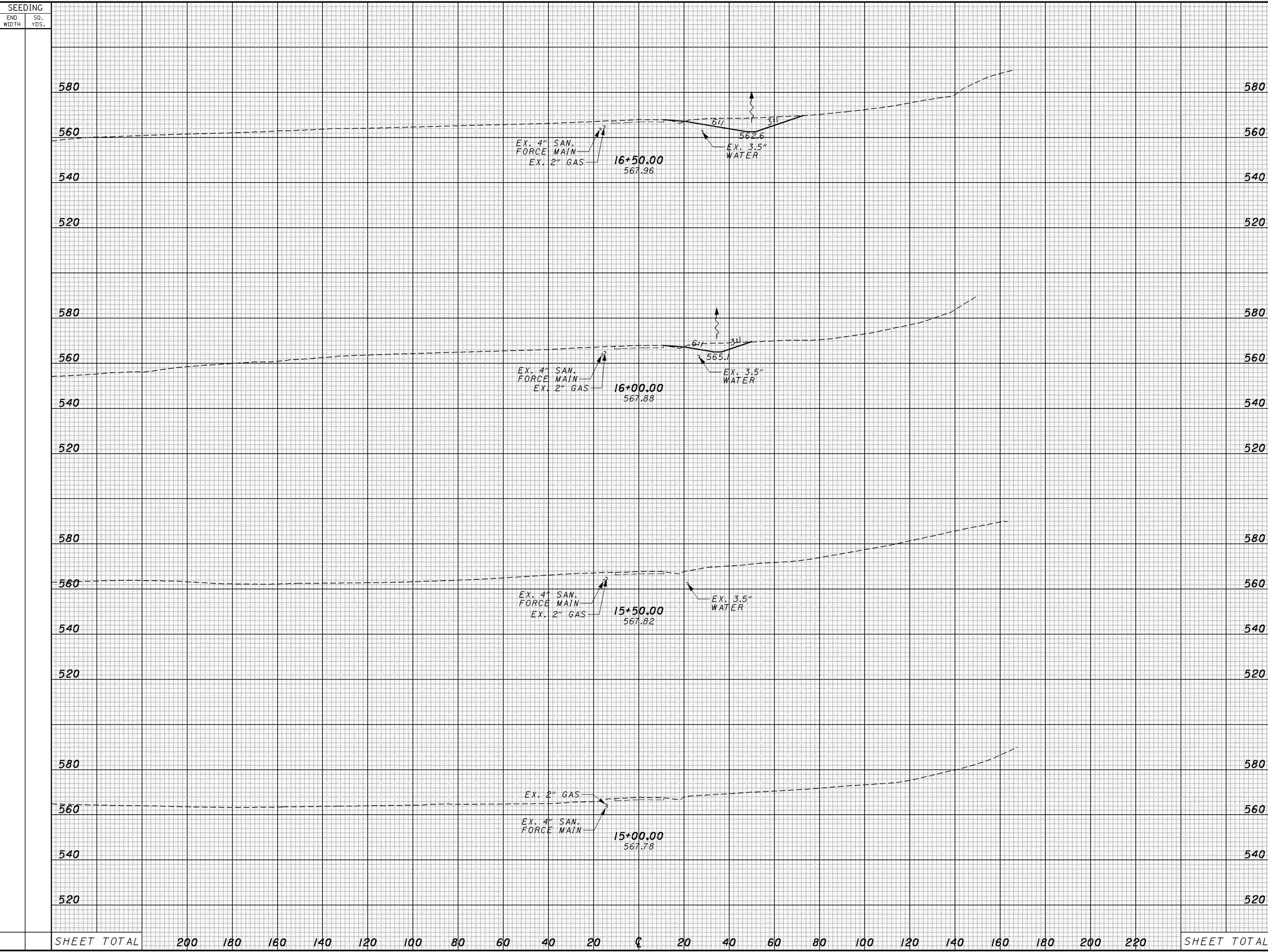
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS
CR184 - STA. 28+94.28

SCI-823-10.13

665

11/23/2007 9:34 AM
 \\aries\PlanSets-400_sci823_half.pen
 melben 1945xs60_ch.dgn



SEEDING		END AREA		VOLUME		CALCULATED MME	CHECKED ADW																		
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL																				
	580																								
	560																								
	540																								
	520																								
	580																								
	560																								
	540																								
	520																								
	580																								
	560																								
	540																								
	520																								
	580																								
	560																								
	540																								
	520																								
	580																								
	560																								
	540																								
	520																								
SHEET TOTAL		200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL	

CROSS SECTIONS - FAIRGROUNDS ROAD (CR 55)
 STA. 15+00.00 TO STA. 16+50.00

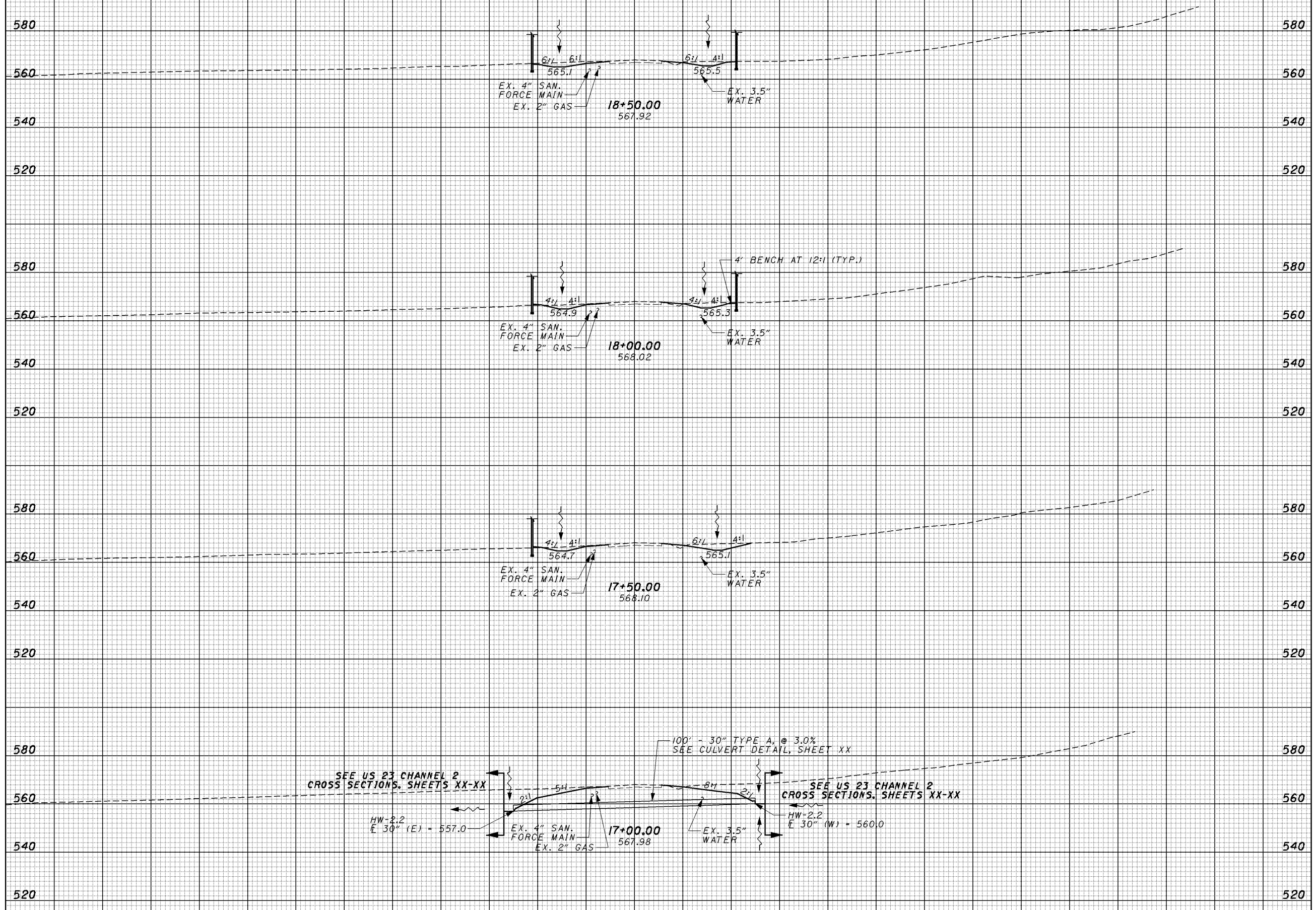
SCI-823-10.13



SEEDING
 END WIDTH SO. YDS.
 11/23/2007 9:34 AM
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 meiben 1945xs602_ch.dgn

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
 MME
 CHECKED
 ADW



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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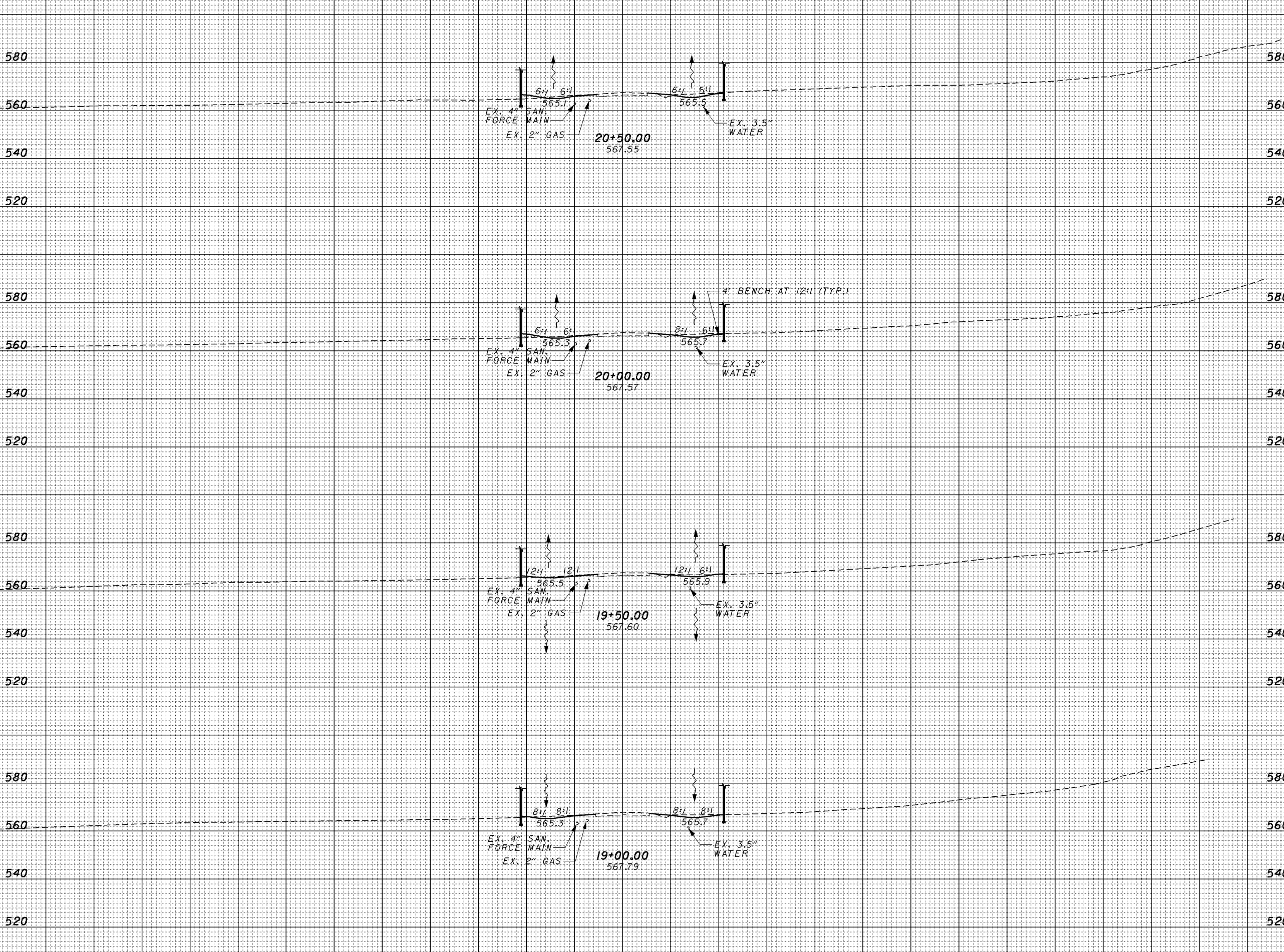
CROSS SECTIONS - FAIRGROUNDS ROAD (CR 55)
 STA. 17+00.00 TO STA. 18+50.00

SCI-823-10.13

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

580
560
540
520
580
560
540
520
580
560
540
520
580
560
540
520
580
560
540
520



SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS - FAIRGROUNDS ROAD (CR 55)
STA. 19+00.00 TO STA. 20+50.00

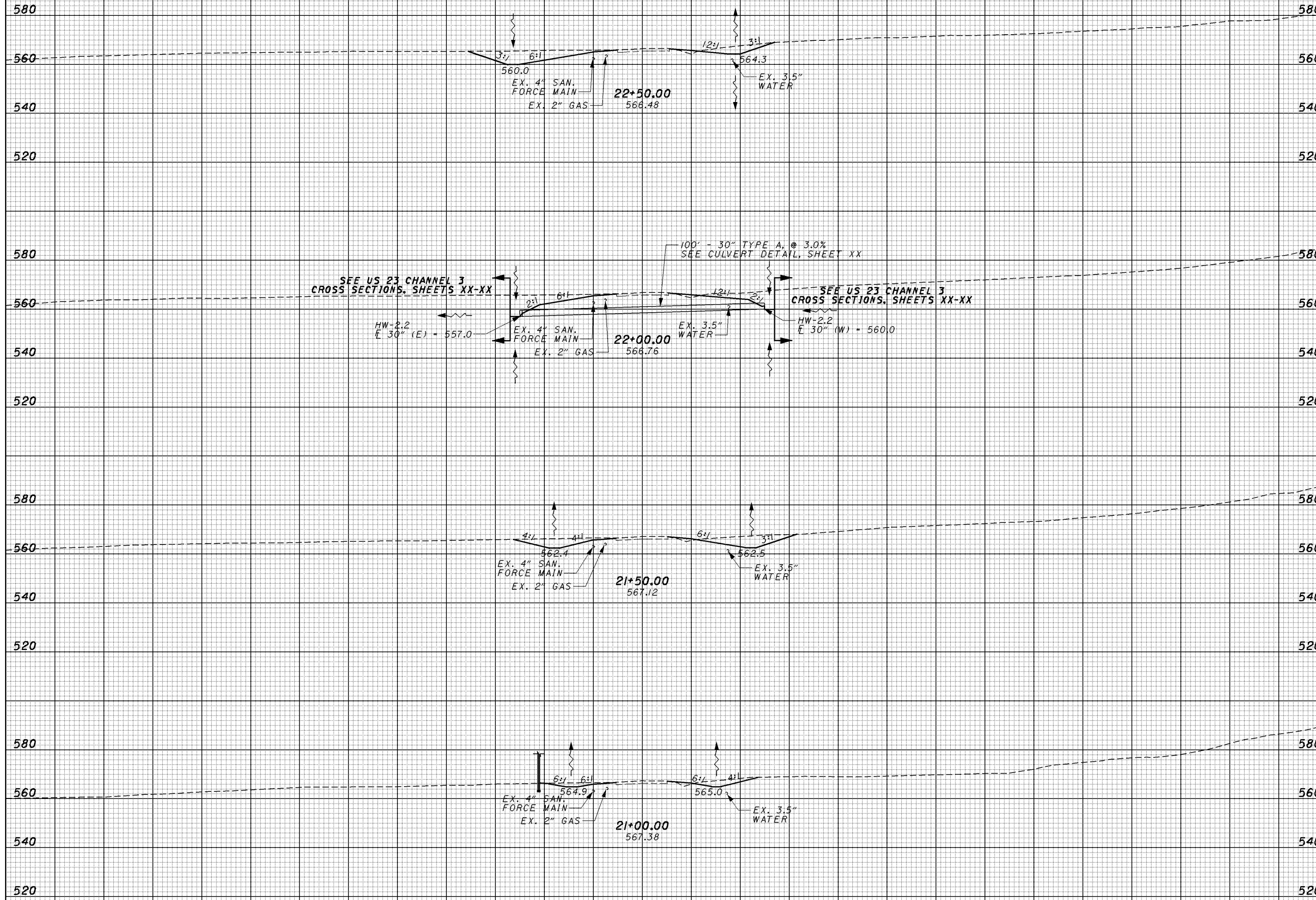
SCI-823-10.13

668

11/23/2007 9:34 AM \\aries\PlanSets-400_sci823_half.pen
meiben 1945xs603_ch.dgn

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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melben 1945xs604_ch.dgn

CROSS SECTIONS - FAIRGROUNDS ROAD (CR 55)
STA. 21+00.00 TO STA. 22+50.00

SCI-823-10.13

669

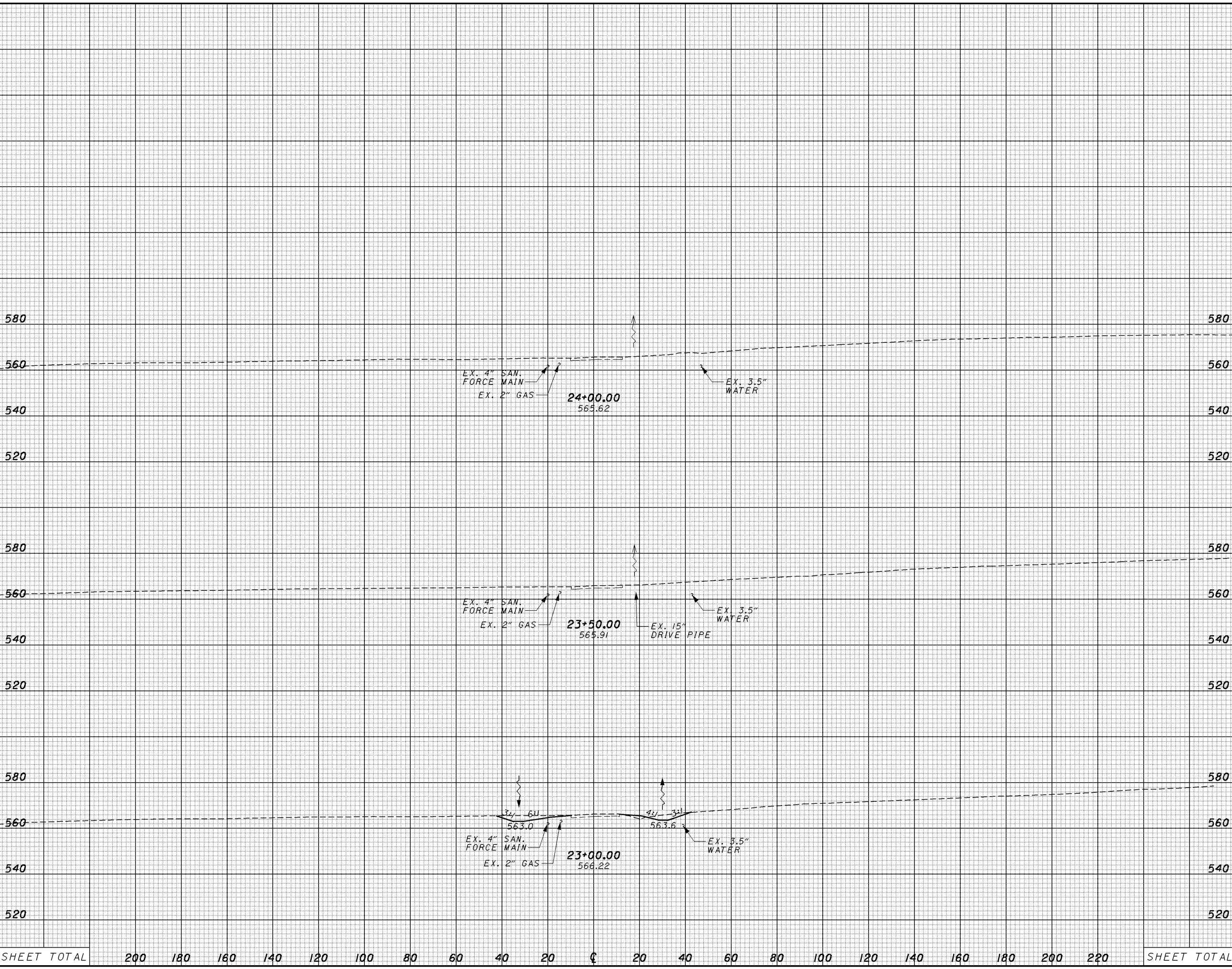
meiben
19415xs605_ch.dgn

11/23/2007
9:34 AM

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SEEDING
END SO.
WIDTH YDS.

END AREA
CUT FILL
VOLUME
CUT FILL
CALCULATED
MME
CHECKED
ADW



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS - FAIRGROUNDS ROAD (CR 55)
STA. 23+00.00 TO STA. 24+00.00

SCI-823-10.13



SUPERELEVATION TABLE

SR823, CURVE #8

P.I. STA. 565+19.92

DC = 2°

EMAX = 0.065 FT/FT

STATION	NORTHBOUND, INSIDE SHOULDER			PROFILE GRADE OF (INSIDE EDGE OF PAVEMENT)	NORTHBOUND, LANES			NORTHBOUND, OUTSIDE SHOULDER				STATION	REMARKS		
	SHOULDER ELEVATION	SHOULDER SLOPE	SHOULDER WIDTH		PAVEMENT WIDTH	PAVEMENT SLOPE	EDGE OF PAVEMENT ELEVATION	SHOULDER WIDTH	SHOULDER SLOPE	POINT ON SHOULDER	SHOULDER WIDTH			SHOULDER SLOPE	SHOULDER ELEVATION
551+40.95	807.45	-0.0400	9.50	807.83	24	-0.0160	807.45				12	-0.0400	806.97	551+40.95	NORMAL CROWN
551+50.00	807.81	-0.0400	9.62	808.19	24	-0.0145	807.84				12	-0.0400	807.36	551+50.00	
551+75.00	808.76	-0.0400	10.62	809.18	24	-0.0105	808.93				12	-0.0400	808.45	551+75.00	
552+00.00	809.69	-0.0400	11.61	810.15	24	-0.0064	810.00				12	-0.0400	809.52	552+00.00	
552+25.00	810.58	-0.0400	12.61	811.08	24	-0.0023	811.02				12	-0.0400	810.54	552+25.00	
552+39.41	811.08	-0.0400	13.20	811.61	24	0.0000	811.61				12	-0.0400	811.13	552+39.41	TS
552+50.00	811.47	-0.0400	13.20	812.00	24	0.0017	812.04				12	-0.0400	811.56	552+50.00	
552+75.00	812.36	-0.0400	13.20	812.89	24	0.0058	813.03				12	-0.0400	812.55	552+75.00	
553+00.00	813.23	-0.0400	13.20	813.76	24	0.0098	814.00				12	-0.0400	813.52	553+00.00	
553+25.00	814.07	-0.0400	13.20	814.60	24	0.0139	814.93				12	-0.0400	814.45	553+25.00	
553+37.87	814.49	-0.0400	13.20	815.02	24	0.0160	815.40				12	-0.0400	814.92	553+37.87	
553+50.00	814.89	-0.0400	13.20	815.42	24	0.0180	815.85				12	-0.0400	815.37	553+50.00	
553+75.00	815.68	-0.0400	13.20	816.21	24	0.0220	816.74				12	-0.0400	816.26	553+75.00	
554+00.00	816.45	-0.0400	13.20	816.98	24	0.0261	817.61				12	-0.0400	817.13	554+00.00	
554+24.03	817.17	-0.0400	13.20	817.70	24	0.0300	818.42				12	-0.0400	817.94	554+24.03	
554+25.00	817.20	-0.0400	13.20	817.73	24	0.0302	818.45	2.5	0.0302	818.53	9.5	-0.0400	818.15	554+25.00	
554+50.00	817.92	-0.0400	13.20	818.45	24	0.0342	819.27	2.5	0.0342	819.36	9.5	-0.0400	818.98	554+50.00	
554+75.00	818.61	-0.0400	13.20	819.14	24	0.0383	820.06	2.5	0.0383	820.15	9.5	-0.0400	819.77	554+75.00	
554+85.56	818.90	-0.0400	13.20	819.43	24	0.0400	820.39	2.5	0.0400	820.49	9.5	-0.0400	820.11	554+85.56	
555+00.00	819.26	-0.0423	13.20	819.82	24	0.0423	820.84	2.5	0.0423	820.94	9.5	-0.0400	820.56	555+00.00	
555+25.00	819.85	-0.0464	13.20	820.46	24	0.0464	821.57	2.5	0.0464	821.69	9.5	-0.0400	821.31	555+25.00	
555+50.00	820.42	-0.0505	13.20	821.09	24	0.0505	822.30	2.5	0.0505	822.43	9.5	-0.0400	822.05	555+50.00	
555+75.00	820.97	-0.0545	13.20	821.69	24	0.0545	823.00	2.5	0.0545	823.14	9.5	-0.0400	822.76	555+75.00	
556+00.00	821.49	-0.0586	13.20	822.26	24	0.0586	823.67	2.5	0.0586	823.81	9.5	-0.0400	823.43	556+00.00	
556+08.64	821.67	-0.0600	13.20	822.46	24	0.0600	823.90	2.5	0.0600	824.05	9.5	-0.0400	823.67	556+08.64	
556+25.00	821.98	-0.0627	13.20	822.81	24	0.0627	824.31	2.5	0.0627	824.47	9.5	-0.0400	824.09	556+25.00	
556+39.41	822.26	-0.0650	13.20	823.12	24	0.0650	824.68	2.5	0.0650	824.84	9.5	-0.0400	824.46	556+39.41	
556+50.00	822.48	-0.0650	13.20	823.34	24	0.0650	824.90	2.5	0.0650	825.06	9.5	-0.0400	824.68	556+50.00	
556+75.00	822.98	-0.0650	13.20	823.84	24	0.0650	825.40	2.5	0.0650	825.56	9.5	-0.0400	825.18	556+75.00	
557+00.00	823.46	-0.0650	13.20	824.32	24	0.0650	825.88	2.5	0.0650	826.04	9.5	-0.0400	825.66	557+00.00	
557+25.00	823.92	-0.0650	13.20	824.78	24	0.0650	826.34	2.5	0.0650	826.50	9.5	-0.0400	826.12	557+25.00	
FULL SUPER															
572+50.00	810.55	-0.0650	13.20	811.41	24	0.0650	812.97	2.5	0.0650	813.13	7.5	-0.0100	813.06	572+50.00	
572+75.00	810.26	-0.0650	13.20	811.12	24	0.0650	812.68	2.5	0.0650	812.84	7.5	-0.0100	812.77	572+75.00	
573+00.00	810.01	-0.0650	13.20	810.87	24	0.0650	812.43	2.5	0.0650	812.59	7.5	-0.0100	812.52	573+00.00	
573+04.42	809.97	-0.0650	13.20	810.83	24	0.0650	812.39	2.5	0.0650	812.55	7.5	-0.0100	812.48	573+04.42	CS, FULL SUPER
573+25.00	809.84	-0.0617	13.20	810.65	24	0.0617	812.13	2.5	0.0617	812.28	7.5	-0.0100	812.21	573+25.00	
573+35.19	809.78	-0.0600	13.20	810.57	24	0.0600	812.01				10	-0.0100	811.91	573+35.19	
573+50.00	809.70	-0.0576	13.20	810.46	24	0.0576	811.84				10	-0.0124	811.72	573+50.00	
573+75.00	809.60	-0.0535	13.20	810.31	24	0.0535	811.59				10	-0.0165	811.43	573+75.00	
574+00.00	809.54	-0.0495	13.20	810.19	24	0.0495	811.38				10	-0.0205	811.17	574+00.00	
574+25.00	809.51	-0.0454	13.20	810.11	24	0.0454	811.20				10	-0.0246	810.95	574+25.00	
574+50.00	809.51	-0.0413	13.20	810.06	24	0.0413	811.05				10	-0.0287	810.77	574+50.00	
574+58.27	809.52	-0.0400	13.20	810.05	24	0.0400	811.01				10	-0.0300	810.71	574+58.27	
574+75.00	809.52	-0.0400	13.20	810.05	24	0.0373	810.94				10	-0.0327	810.62	574+75.00	
575+00.00	809.54	-0.0400	13.20	810.07	24	0.0332	810.87				10	-0.0368	810.50	575+00.00	
575+19.80	809.58	-0.0400	13.20	810.11	24	0.0300	810.83				10	-0.0400	810.43	575+19.80	
SEE SHEET NO. XX															

SUPERELEVATION TABLE, CURVE #8
SR823 NORTHBOUND

SCI - 823 - 10.13

671

9:55:56 AM 1/29/2008 g:\c03\0064\road\hcase_2\79977ge01_ssr823.sht

CALCULATED
DL
CHECKED
RW

SUPERELEVATION TABLE

SR823, CURVE #8

P.I. STA. 565+19.92

DC = 2°

EMAX = 0.065 FT/FT

CALCULATED
DL
CHECKED
RW

STATION	NORTHBOUND, INSIDE SHOULDER			PROFILE GRADE (INSIDE EDGE OF PAVEMENT)	NORTHBOUND, LANES			NORTHBOUND, OUTSIDE SHOULDER				STATION	REMARKS	
	SHOULDER ELEVATION	SHOULDER SLOPE	SHOULDER WIDTH		PAVEMENT WIDTH	PAVEMENT SLOPE	EDGE OF PAVEMENT ELEVATION	SHOULDER WIDTH	SHOULDER SLOPE	POINT ON SHOULDER	SHOULDER WIDTH			SHOULDER SLOPE
						SEE SHEET NO. XX								
575+25.00	809.59	-0.0400	13.20	810.12	24	0.0292	810.82				10	-0.0400	810.42	575+25.00
575+50.00	809.68	-0.0400	13.20	810.21	24	0.0251	810.81				10	-0.0400	810.41	575+50.00
575+75.00	809.81	-0.0400	13.20	810.34	24	0.0210	810.84				10	-0.0400	810.44	575+75.00
576+00.00	809.96	-0.0400	13.20	810.49	24	0.0170	810.90				10	-0.0400	810.50	576+00.00
576+05.96	810.01	-0.0400	13.20	810.54	24	0.0160	810.92				10	-0.0400	810.52	576+05.96
576+25.00	810.16	-0.0400	13.20	810.69	24	0.0129	811.00				10	-0.0400	810.60	576+25.00
576+50.00	810.38	-0.0400	13.20	810.91	24	0.0088	811.12				10	-0.0400	810.72	576+50.00
576+75.00	810.64	-0.0400	13.20	811.17	24	0.0048	811.28				10	-0.0400	810.88	576+75.00
577+00.00	810.94	-0.0400	13.20	811.47	24	0.0007	811.49				10	-0.0400	811.09	577+00.00
577+04.42	810.99	-0.0400	13.20	811.52	24	0.0000	811.52				10	-0.0400	811.12	577+04.42 ST
577+25.00	811.31	-0.0400	12.36	811.80	24	-0.0033	811.72				10	-0.0400	811.32	577+25.00
577+50.00	811.71	-0.0400	11.37	812.16	24	-0.0074	811.98				10	-0.0400	811.58	577+50.00
577+75.00	812.15	-0.0400	10.37	812.56	24	-0.0115	812.28				10	-0.0400	811.88	577+75.00
578+00.00	812.61	-0.0400	9.50	812.99	24	-0.0155	812.62				10	-0.0400	812.22	578+00.00
578+02.88	812.67	-0.0400	9.50	813.05	24	-0.0160	812.67				10	-0.0400	812.27	578+02.88 NORMAL CROWN

**SUPERELEVATION TABLE, CURVE #8
SR823 NORTHBOUND**

SCI - 823 - 10.13

672

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SUPERELEVATION TABLE

SR823, CURVE #8

P.I. STA. 565+19.92

DC = 2°

EMAX = 0.065 FT/FT

STATION	SOUTHBOUND, OUTSIDE SHOULDER			SOUTHBOUND, LANES			PROFILE GRADE (INSIDE EDGE OF PAVEMENT)	SOUTHBOUND, INSIDE SHOULDER					STATION	REMARKS	
	SHOULDER ELEVATION	SHOULDER SLOPE	SHOULDER WIDTH	EDGE OF PAVEMENT ELEVATION	PAVEMENT SLOPE	PAVEMENT WIDTH		SHOULDER WIDTH	SHOULDER SLOPE	POINT ON SHOULDER	SHOULDER WIDTH	SHOULDER SLOPE			SHOULDER ELEVATION
551+40.95	806.97	-0.0400	12	807.45	-0.0160	24	807.83				9.50	-0.0400	807.45	551+40.95	NORMAL CROWN
551+50.00	807.33	-0.0400	12	807.81	-0.0160	24	808.19				9.50	-0.0400	807.81	551+50.00	
551+75.00	808.32	-0.0400	12	808.80	-0.0160	24	809.18				8.57	-0.0400	808.84	551+75.00	
552+00.00	809.29	-0.0400	12	809.77	-0.0160	24	810.15				7.57	-0.0400	809.85	552+00.00	
552+25.00	810.22	-0.0400	12	810.70	-0.0160	24	811.08				6.58	-0.0400	810.82	552+25.00	
552+39.41	810.75	-0.0400	12	811.23	-0.0160	24	811.61				6.00	-0.0400	811.37	552+39.41	TS
552+50.00	811.14	-0.0400	12	811.62	-0.0160	24	812.00				6.00	-0.0400	811.76	552+50.00	
552+75.00	812.03	-0.0400	12	812.51	-0.0160	24	812.89				6.00	-0.0400	812.65	552+75.00	
553+00.00	812.90	-0.0400	12	813.38	-0.0160	24	813.76				6.00	-0.0400	813.52	553+00.00	
553+25.00	813.74	-0.0400	12	814.22	-0.0160	24	814.60				6.00	-0.0400	814.36	553+25.00	
553+37.87	814.16	-0.0400	12	814.64	-0.0160	24	815.02				6.00	-0.0400	814.78	553+37.87	
553+50.00	814.51	-0.0400	12	814.99	-0.0180	24	815.42				6.00	-0.0400	815.18	553+50.00	
553+75.00	815.20	-0.0400	12	815.68	-0.0220	24	816.21				6.00	-0.0400	815.97	553+75.00	
554+00.00	815.87	-0.0400	12	816.35	-0.0261	24	816.98				6.00	-0.0400	816.74	554+00.00	
554+24.03	816.50	-0.0400	12	816.98	-0.0300	24	817.70				6.00	-0.0400	817.46	554+24.03	
554+25.00	816.53	-0.0400	12	817.01	-0.0302	24	817.73	2	0.0302	817.79	4.00	-0.0400	817.63	554+25.00	
554+50.00	817.15	-0.0400	12	817.63	-0.0342	24	818.45	2	0.0342	818.52	4.00	-0.0400	818.36	554+50.00	
554+75.00	817.74	-0.0400	12	818.22	-0.0383	24	819.14	2	0.0383	819.22	4.00	-0.0400	819.06	554+75.00	
554+85.56	817.99	-0.0400	12	818.47	-0.0400	24	819.43	2	0.0400	819.51	4.00	-0.0400	819.35	554+85.56	
555+00.00	818.30	-0.0423	12	818.80	-0.0423	24	819.82	2	0.0423	819.90	4.00	-0.0400	819.74	555+00.00	
555+25.00	818.79	-0.0464	12	819.35	-0.0464	24	820.46	2	0.0464	820.55	4.00	-0.0400	820.39	555+25.00	
555+50.00	819.27	-0.0505	12	819.88	-0.0505	24	821.09	2	0.0505	821.19	4.00	-0.0400	821.03	555+50.00	
555+75.00	819.73	-0.0545	12	820.38	-0.0545	24	821.69	2	0.0545	821.80	4.00	-0.0400	821.64	555+75.00	
556+00.00	820.15	-0.0586	12	820.85	-0.0586	24	822.26	2	0.0586	822.38	4.00	-0.0400	822.22	556+00.00	
556+08.64	820.30	-0.0600	12	821.02	-0.0600	24	822.46	2	0.0600	822.58	4.00	-0.0400	822.42	556+08.64	
556+25.00	820.55	-0.0627	12	821.31	-0.0627	24	822.81	2	0.0627	822.94	4.00	-0.0400	822.78	556+25.00	
556+39.41	820.78	-0.0650	12	821.56	-0.0650	24	823.12	2	0.0650	823.25	4.00	-0.0400	823.09	556+39.41	SC, FULL SUPER
556+50.00	821.00	-0.0650	12	821.78	-0.0650	24	823.34	2	0.0650	823.47	4.00	-0.0400	823.31	556+50.00	
556+75.00	821.50	-0.0650	12	822.28	-0.0650	24	823.84	2	0.0650	823.97	4.00	-0.0400	823.81	556+75.00	
557+00.00	821.98	-0.0650	12	822.76	-0.0650	24	824.32	2	0.0650	824.45	4.00	-0.0400	824.29	557+00.00	
557+25.00	822.44	-0.0650	12	823.22	-0.0650	24	824.78	2	0.0650	824.91	4.00	-0.0400	824.75	557+25.00	
572+50.00	809.20	-0.0650	10	809.85	-0.0650	24	811.41	2	0.0650	811.54	4.00	-0.0400	811.38	572+50.00	
572+75.00	808.91	-0.0650	10	809.56	-0.0650	24	811.12	2	0.0650	811.25	4.00	-0.0400	811.09	572+75.00	
573+00.00	808.66	-0.0650	10	809.31	-0.0650	24	810.87	2	0.0650	811.00	4.00	-0.0400	810.84	573+00.00	
573+04.42	808.62	-0.0650	10	809.27	-0.0650	24	810.83	2	0.0650	810.96	4.00	-0.0400	810.80	573+04.42	CS, FULL SUPER
573+25.00	808.55	-0.0617	10	809.17	-0.0617	24	810.65	2	0.0617	810.77	4.00	-0.0400	810.61	573+25.00	
573+35.19	808.53	-0.0600	10	809.13	-0.0600	24	810.57	2	0.0600	810.69	4.00	-0.0400	810.53	573+35.19	
573+50.00	808.50	-0.0576	10	809.08	-0.0576	24	810.46	2	0.0576	810.58	4.00	-0.0400	810.42	573+50.00	
573+75.00	808.49	-0.0535	10	809.03	-0.0535	24	810.31	2	0.0535	810.42	4.00	-0.0400	810.26	573+75.00	
574+00.00	808.51	-0.0495	10	809.00	-0.0495	24	810.19	2	0.0495	810.29	4.00	-0.0400	810.13	574+00.00	
574+25.00	808.57	-0.0454	10	809.02	-0.0454	24	810.11	2	0.0454	810.20	4.00	-0.0400	810.04	574+25.00	
574+50.00	808.65	-0.0413	10	809.07	-0.0413	24	810.06	2	0.0413	810.14	4.00	-0.0400	809.98	574+50.00	
574+58.27	808.69	-0.0400	10	809.09	-0.0400	24	810.05	2	0.0400	810.13	4.00	-0.0400	809.97	574+58.27	
574+75.00	808.76	-0.0400	10	809.16	-0.0373	24	810.05	2	0.0373	810.12	4.00	-0.0400	809.96	574+75.00	
575+00.00	808.87	-0.0400	10	809.27	-0.0332	24	810.07	2	0.0332	810.14	4.00	-0.0400	809.98	575+00.00	
575+19.80	808.99	-0.0400	10	809.39	-0.0300	24	810.11				6.00	-0.0400	809.87	575+19.80	

FULL SUPER

SEE SHEET NO. XX

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**SUPERELEVATION TABLE, CURVE #8
SR823 SOUTHBOUND**

SCI-823-10.13

CALCULATED
DL
CHECKED
RW

SUPERELEVATION TABLE

SR823, CURVE #8

P.I. STA. 565+19.92

DC = 2°

EMAX = 0.065 FT/FT

CALCULATED
DL
CHECKED
RW

STATION	SOUTHBOUND, OUTSIDE SHOULDER			SOUTHBOUND, LANES			PROFILE GRADE (INSIDE EDGE OF PAVEMENT)	SOUTHBOUND, INSIDE SHOULDER					STATION	REMARKS
	SHOULDER ELEVATION	SHOULDER SLOPE	SHOULDER WIDTH	EDGE OF PAVEMENT ELEVATION	PAVEMENT SLOPE	PAVEMENT WIDTH		SHOULDER WIDTH	SHOULDER SLOPE	POINT ON SHOULDER	SHOULDER WIDTH	SHOULDER SLOPE		
						SEE SHEET NO. XX								
575+25.00	809.02	-0.0400	10	809.42	-0.0292	24	810.12				6.00	-0.0400	809.88	575+25.00
575+50.00	809.21	-0.0400	10	809.61	-0.0251	24	810.21				6.00	-0.0400	809.97	575+50.00
575+75.00	809.44	-0.0400	10	809.84	-0.0210	24	810.34				6.00	-0.0400	810.10	575+75.00
576+00.00	809.68	-0.0400	10	810.08	-0.0170	24	810.49				6.00	-0.0400	810.25	576+00.00
576+05.96	809.76	-0.0400	10	810.16	-0.0160	24	810.54				6.00	-0.0400	810.30	576+05.96
576+25.00	809.91	-0.0400	10	810.31	-0.0160	24	810.69				6.00	-0.0400	810.45	576+25.00
576+50.00	810.13	-0.0400	10	810.53	-0.0160	24	810.91				6.00	-0.0400	810.67	576+50.00
576+75.00	810.39	-0.0400	10	810.79	-0.0160	24	811.17				6.00	-0.0400	810.93	576+75.00
577+00.00	810.69	-0.0400	10	811.09	-0.0160	24	811.47				6.00	-0.0400	811.23	577+00.00
577+04.42	810.74	-0.0400	10	811.14	-0.0160	24	811.52				6.00	-0.0400	811.28	577+04.42 ST
577+25.00	811.02	-0.0400	10	811.42	-0.0160	24	811.80				6.82	-0.0400	811.53	577+25.00
577+50.00	811.38	-0.0400	10	811.78	-0.0160	24	812.16				7.82	-0.0400	811.85	577+50.00
577+75.00	811.78	-0.0400	10	812.18	-0.0160	24	812.56				8.82	-0.0400	812.21	577+75.00
578+00.00	812.21	-0.0400	10	812.61	-0.0160	24	812.99				9.50	-0.0400	812.61	578+00.00
578+02.88	812.27	-0.0400	10	812.67	-0.0160	24	813.05				9.50	-0.0400	812.67	578+02.88 NORMAL CROWN

SUPERELEVATION TABLE, CURVE #8
SR823 SOUTHBOUND

SCI-823-10.13

9:56:03 AM 1/29/2008 g:\co03\0064\road\phase 2\79977ge02_sr823.sht

SUPERELEVATION TABLE

SR823, CURVE #9			P.I. STA. 672+28.25			DC = 45'			EMAX = 0.028 FT/FT			
STATION	NORTHBOUND, INSIDE SHOULDER			PROFILE GRADE (INSIDE EDGE OF PAVEMENT)	NORTHBOUND, LANES			NORTHBOUND, OUTSIDE SHOULDER			STATION	REMARKS
	SHOULDER ELEVATION	SHOULDER SLOPE	SHOULDER WIDTH		PAVEMENT WIDTH	PAVEMENT SLOPE	EDGE OF PAVEMENT ELEVATION	SHOULDER WIDTH	SHOULDER SLOPE	SHOULDER ELEVATION		
617+43.77	904.03	-0.0400	9.5	904.41	24	-0.0160	904.03	10	-0.0400	903.63	617+43.77	NORMAL CROWN
617+50.00	903.84	-0.0400	9.5	904.22	24	-0.0160	903.84	10	-0.0400	903.44	617+50.00	
617+75.00	903.10	-0.0400	9.5	903.48	24	-0.0160	903.10	10	-0.0400	902.70	617+75.00	
618+00.00	902.33	-0.0400	9.5	902.71	24	-0.0160	902.33	10	-0.0400	901.93	618+00.00	
618+25.00	901.54	-0.0400	9.5	901.92	24	-0.0160	901.54	10	-0.0400	901.14	618+25.00	
618+43.77	900.93	-0.0400	9.5	901.31	24	-0.0160	900.93	10	-0.0400	900.53	618+43.77	TS
618+50.00	900.72	-0.0400	9.5	901.10	24	-0.0160	900.72	10	-0.0400	900.32	618+50.00	
618+75.00	899.88	-0.0400	9.5	900.26	24	-0.0160	899.88	10	-0.0400	899.48	618+75.00	
619+00.00	899.02	-0.0400	9.5	899.40	24	-0.0160	899.02	10	-0.0400	898.62	619+00.00	
619+25.00	898.13	-0.0400	9.5	898.51	24	-0.0160	898.13	10	-0.0400	897.73	619+25.00	
619+43.77	897.44	-0.0400	9.5	897.82	24	-0.0160	897.44	10	-0.0400	897.04	619+43.77	
619+50.00	897.21	-0.0400	9.5	897.59	24	-0.0170	897.18	10	-0.0400	896.78	619+50.00	
619+75.00	896.29	-0.0400	9.5	896.67	24	-0.0210	896.17	10	-0.0400	895.77	619+75.00	
620+00.00	895.36	-0.0400	9.5	895.74	24	-0.0250	895.14	10	-0.0400	894.74	620+00.00	
620+18.77	894.67	-0.0400	9.5	895.05	24	-0.0280	894.38	10	-0.0400	893.98	620+18.77	SC, FULL SUPER
620+25.00	894.44	-0.0400	9.5	894.82	24	-0.0280	894.15	10	-0.0400	893.75	620+25.00	
620+50.00	893.51	-0.0400	9.5	893.89	24	-0.0280	893.22	10	-0.0400	892.82	620+50.00	
620+75.00	892.59	-0.0400	9.5	892.97	24	-0.0280	892.30	10	-0.0400	891.90	620+75.00	
621+00.00	891.66	-0.0400	9.5	892.04	24	-0.0280	891.37	10	-0.0400	890.97	621+00.00	
								FULL SUPER				
710+50.00	805.76	-0.0400	9.5	806.14	24	-0.0280	805.47	12	-0.0400	804.99	710+50.00	
710+75.00	804.71	-0.0400	9.5	805.09	24	-0.0280	804.42	12	-0.0400	803.94	710+75.00	
711+00.00	803.66	-0.0400	9.5	804.04	24	-0.0280	803.37	12	-0.0400	802.89	711+00.00	
711+06.65	803.38	-0.0400	9.5	803.76	24	-0.0280	803.09	12	-0.0400	802.61	711+06.65	CS, FULL SUPER
711+25.00	802.61	-0.0400	9.5	802.99	24	-0.0251	802.39	12	-0.0400	801.91	711+25.00	
711+50.00	801.56	-0.0400	9.5	801.94	24	-0.0211	801.43	12	-0.0400	800.95	711+50.00	
711+75.00	800.51	-0.0400	9.5	800.89	24	-0.0171	800.48	12	-0.0400	800.00	711+75.00	
711+81.65	800.23	-0.0400	9.5	800.61	24	-0.0160	800.23	12	-0.0400	799.75	711+81.65	
712+00.00	799.46	-0.0400	9.5	799.84	24	-0.0160	799.46	12	-0.0400	798.98	712+00.00	
712+25.00	798.41	-0.0400	9.5	798.79	24	-0.0160	798.41	12	-0.0400	797.93	712+25.00	
712+50.00	797.36	-0.0400	9.5	797.74	24	-0.0160	797.36	12	-0.0400	796.88	712+50.00	
712+75.00	796.31	-0.0400	9.5	796.69	24	-0.0160	796.31	12	-0.0400	795.83	712+75.00	
712+81.65	796.03	-0.0400	9.5	796.41	24	-0.0160	796.03	12	-0.0400	795.55	712+81.65	ST
713+00.00	795.26	-0.0400	9.5	795.64	24	-0.0160	795.26	12	-0.0400	794.78	713+00.00	
713+25.00	794.21	-0.0400	9.5	794.59	24	-0.0160	794.21	12	-0.0400	793.73	713+25.00	
713+50.00	793.16	-0.0400	9.5	793.54	24	-0.0160	793.16	12	-0.0400	792.68	713+50.00	
713+75.00	792.13	-0.0400	9.5	792.51	24	-0.0160	792.13	12	-0.0400	791.65	713+75.00	
713+81.65	791.86	-0.0400	9.5	792.24	24	-0.0160	791.86	12	-0.0400	791.38	713+81.65	NORMAL CROWN

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CALCULATED DL CHECKED RW	SUPERELEVATION TABLE, CURVE #9 SR823, NORTHBOUND	SCI-823-10.13	675
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SUPERELEVATION TABLE

SR823, CURVE #9			P.I. STA. 672+28.25				DC = 45'			EMAX = 0.028 FT/FT		
STATION	SOUTHBOUND, OUTSIDE SHOULDER			SOUTHBOUND, LANES			PROFILE GRADE (INSIDE EDGE OF PAVEMENT)	SOUTHBOUND, INSIDE SHOULDER			STATION	REMARKS
	SHOULDER ELEVATION	SHOULDER SLOPE	SHOULDER WIDTH	EDGE OF PAVEMENT ELEVATION	PAVEMENT SLOPE	PAVEMENT WIDTH		SHOULDER WIDTH	SHOULDER SLOPE	SHOULDER ELEVATION		
617+43.77	903.63	-0.0400	10	904.03	-0.0160	24	904.41	9.5	-0.0400	904.03	617+43.77	NORMAL CROWN
617+50.00	903.46	-0.0400	10	903.86	-0.0150	24	904.22	9.5	-0.0400	903.84	617+50.00	
617+75.00	902.82	-0.0400	10	903.22	-0.0110	24	903.48	9.5	-0.0400	903.10	617+75.00	
618+00.00	902.14	-0.0400	10	902.54	-0.0070	24	902.71	9.5	-0.0400	902.33	618+00.00	
618+25.00	901.45	-0.0400	10	901.85	-0.0030	24	901.92	9.5	-0.0400	901.54	618+25.00	
618+43.77	900.91	-0.0400	10	901.31	0.0000	24	901.31	9.5	-0.0400	900.93	618+43.77	TS
618+50.00	900.72	-0.0400	10	901.12	0.0010	24	901.10	9.5	-0.0400	900.72	618+50.00	
618+75.00	899.98	-0.0400	10	900.38	0.0050	24	900.26	9.5	-0.0400	899.88	618+75.00	
619+00.00	899.22	-0.0400	10	899.62	0.0090	24	899.40	9.5	-0.0400	899.02	619+00.00	
619+25.00	898.42	-0.0400	10	898.82	0.0130	24	898.51	9.5	-0.0400	898.13	619+25.00	
619+43.77	897.80	-0.0400	10	898.20	0.0160	24	897.82	9.5	-0.0400	897.44	619+43.77	
619+50.00	897.60	-0.0400	10	898.00	0.0170	24	897.59	9.5	-0.0400	897.21	619+50.00	
619+75.00	896.77	-0.0400	10	897.17	0.0210	24	896.67	9.5	-0.0400	896.29	619+75.00	
620+00.00	895.94	-0.0400	10	896.34	0.0250	24	895.74	9.5	-0.0400	895.36	620+00.00	
620+18.77	895.32	-0.0400	10	895.72	0.0280	24	895.05	9.5	-0.0400	894.67	620+18.77	SC, FULL SUPER
620+25.00	895.09	-0.0400	10	895.49	0.0280	24	894.82	9.5	-0.0400	894.44	620+25.00	
620+50.00	894.16	-0.0400	10	894.56	0.0280	24	893.89	9.5	-0.0400	893.51	620+50.00	
620+75.00	893.24	-0.0400	10	893.64	0.0280	24	892.97	9.5	-0.0400	892.59	620+75.00	
621+00.00	892.31	-0.0400	10	892.71	0.0280	24	892.04	9.5	-0.0400	891.66	621+00.00	
								FULL SUPER				
710+50.00	806.33	-0.0400	12	806.81	0.0280	24	806.14	9.5	-0.0400	805.76	710+50.00	
710+75.00	805.28	-0.0400	12	805.76	0.0280	24	805.09	9.5	-0.0400	804.71	710+75.00	
711+00.00	804.23	-0.0400	12	804.71	0.0280	24	804.04	9.5	-0.0400	803.66	711+00.00	
711+06.65	803.95	-0.0400	12	804.43	0.0280	24	803.76	9.5	-0.0400	803.38	711+06.65	CS, FULL SUPER
711+25.00	803.11	-0.0400	12	803.59	0.0251	24	802.99	9.5	-0.0400	802.61	711+25.00	
711+50.00	801.97	-0.0400	12	802.45	0.0211	24	801.94	9.5	-0.0400	801.56	711+50.00	
711+75.00	800.82	-0.0400	12	801.30	0.0171	24	800.89	9.5	-0.0400	800.51	711+75.00	
711+81.65	800.51	-0.0400	12	800.99	0.0160	24	800.61	9.5	-0.0400	800.23	711+81.65	
712+00.00	799.67	-0.0400	12	800.15	0.0131	24	799.84	9.5	-0.0400	799.46	712+00.00	
712+25.00	798.53	-0.0400	12	799.01	0.0091	24	798.79	9.5	-0.0400	798.41	712+25.00	
712+50.00	797.38	-0.0400	12	797.86	0.0051	24	797.74	9.5	-0.0400	797.36	712+50.00	
712+75.00	796.24	-0.0400	12	796.72	0.0011	24	796.69	9.5	-0.0400	796.31	712+75.00	
712+81.65	795.93	-0.0400	12	796.41	0.0000	24	796.41	9.5	-0.0400	796.03	712+81.65	ST
713+00.00	795.09	-0.0400	12	795.57	-0.0029	24	795.64	9.5	-0.0400	795.26	713+00.00	
713+25.00	793.94	-0.0400	12	794.42	-0.0069	24	794.59	9.5	-0.0400	794.21	713+25.00	
713+50.00	792.80	-0.0400	12	793.28	-0.0109	24	793.54	9.5	-0.0400	793.16	713+50.00	
713+75.00	791.67	-0.0400	12	792.15	-0.0149	24	792.51	9.5	-0.0400	792.13	713+75.00	
713+81.65	791.38	-0.0400	12	791.86	-0.0160	24	792.24	9.5	-0.0400	791.86	713+81.65	NORMAL CROWN

SUPERELEVATION TABLE, CURVE #9
SR823, SOUTHBOUND

SCI - 823 - 10.13

CALCULATED
DL
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RW

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SUPERELEVATION TABLE

SR823, CURVE #10

P.I. STA. 795+00.50

DC = 1°15'

EMAX = 0.044 FT/FT

STATION	NORTHBOUND, INSIDE SHOULDER			PROFILE GRADE (INSIDE EDGE OF PAVEMENT)	NORTHBOUND, LANES			NORTHBOUND, OUTSIDE SHOULDER			STATION	REMARKS			
	SHOULDER ELEVATION	SHOULDER SLOPE	SHOULDER WIDTH		PAVEMENT WIDTH	PAVEMENT SLOPE	EDGE OF PAVEMENT ELEVATION	SHOULDER WIDTH	SHOULDER SLOPE	POINT ON SHOULDER			SHOULDER WIDTH	SHOULDER SLOPE	SHOULDER ELEVATION
742+49.85	856.16	-0.0400	9.5	856.54	24	-0.0160	856.15			12.0	-0.0400	855.67	742+49.85	NORMAL CROWN	
742+50.00	856.16	-0.0400	9.5	856.54	24	-0.0160	856.16			12.0	-0.0400	855.68	742+50.00		
742+75.00	857.31	-0.0400	9.5	857.69	24	-0.0120	857.41			12.0	-0.0400	856.93	742+75.00		
743+00.00	858.46	-0.0400	9.5	858.84	24	-0.0080	858.65			12.0	-0.0400	858.17	743+00.00		
743+25.00	859.61	-0.0400	9.5	859.99	24	-0.0040	859.90			12.0	-0.0400	859.42	743+25.00		
743+49.85	860.76	-0.0400	9.5	861.14	24	0.0000	861.14			12.0	-0.0400	860.66	743+49.85	TS	
743+50.00	860.76	-0.0400	9.5	861.14	24	0.0000	861.14			12.0	-0.0400	860.66	743+50.00		
743+75.00	861.91	-0.0400	9.5	862.29	24	0.0040	862.39			12.0	-0.0400	861.91	743+75.00		
744+00.00	863.06	-0.0400	9.5	863.44	24	0.0080	863.64			12.0	-0.0400	863.16	744+00.00		
744+25.00	864.21	-0.0400	9.5	864.59	24	0.0120	864.88			12.0	-0.0400	864.40	744+25.00		
744+49.85	865.36	-0.0400	9.5	865.74	24	0.0160	866.12			12.0	-0.0400	865.64	744+49.85		
744+50.00	865.36	-0.0400	9.5	865.74	24	0.0160	866.13			12.0	-0.0400	865.65	744+50.00		
744+75.00	866.50	-0.0400	9.5	866.88	24	0.0200	867.36			12.0	-0.0400	866.88	744+75.00		
745+00.00	867.62	-0.0400	9.5	868.00	24	0.0240	868.58			12.0	-0.0400	868.10	745+00.00		
745+25.00	868.71	-0.0400	9.5	869.09	24	0.0280	869.77			12.0	-0.0400	869.29	745+25.00		
745+37.35	869.25	-0.0400	9.5	869.63	24	0.0300	870.35			12.0	-0.0400	869.87	745+37.35		
745+50.00	869.79	-0.0400	9.5	870.17	24	0.0320	870.93	2.5	0.0320	871.01	9.5	-0.0400	870.63	745+50.00	
745+75.00	870.84	-0.0400	9.5	871.22	24	0.0360	872.08	2.5	0.0360	872.17	9.5	-0.0400	871.79	745+75.00	
745+99.85	871.86	-0.0400	9.5	872.24	24	0.0400	873.20	2.5	0.0400	873.30	9.5	-0.0400	872.92	745+99.85	
746+00.00	871.86	-0.0400	9.5	872.24	24	0.0400	873.20	2.5	0.0400	873.30	9.5	-0.0400	872.92	746+00.00	
746+24.85	872.83	-0.0440	9.5	873.24	24	0.0440	874.30	2.5	0.0440	874.41	9.5	-0.0400	874.03	746+24.85	SC, FULL SUPER
746+25.00	872.83	-0.0440	9.5	873.25	24	0.0440	874.31	2.5	0.0440	874.42	9.5	-0.0400	874.04	746+25.00	
746+50.00	873.81	-0.0440	9.5	874.23	24	0.0440	875.29	2.5	0.0440	875.40	9.5	-0.0400	875.02	746+50.00	
746+75.00	874.78	-0.0440	9.5	875.19	24	0.0440	876.25	2.5	0.0440	876.36	9.5	-0.0400	875.98	746+75.00	
747+00.00	875.72	-0.0440	9.5	876.13	24	0.0440	877.19	2.5	0.0440	877.30	9.5	-0.0400	876.92	747+00.00	
															FULL SUPER
819+00.00	811.87	-0.0440	9.5	812.28	24	0.0440	813.34	2.5	0.0440	813.45	9.5	-0.0400	813.07	819+00.00	
819+25.00	810.87	-0.0440	9.5	811.28	24	0.0440	812.34	2.5	0.0440	812.45	9.5	-0.0400	812.07	819+25.00	
819+50.00	809.87	-0.0440	9.5	810.28	24	0.0440	811.34	2.5	0.0440	811.45	9.5	-0.0400	811.07	819+50.00	
819+59.16	809.50	-0.0440	9.5	809.92	24	0.0440	810.97	2.5	0.0440	811.08	9.5	-0.0400	810.70	819+59.16	CS, FULL SUPER
819+75.00	808.89	-0.0415	9.5	809.28	24	0.0415	810.28	2.5	0.0415	810.38	9.5	-0.0400	810.00	819+75.00	
819+84.16	808.54	-0.0400	9.5	808.92	24	0.0400	809.88	2.5	0.0400	809.98	9.5	-0.0400	809.60	819+84.16	
820+00.00	807.90	-0.0400	9.5	808.28	24	0.0375	809.18	2.5	0.0375	809.28	9.5	-0.0400	808.90	820+00.00	
820+25.00	806.90	-0.0400	9.5	807.28	24	0.0335	808.09	2.5	0.0335	808.17	9.5	-0.0400	807.79	820+25.00	
820+46.66	806.04	-0.0400	9.5	806.42	24	0.0300	807.14				12.0	-0.0400	806.66	820+46.66	
820+50.00	805.90	-0.0400	9.5	806.28	24	0.0295	806.99				12.0	-0.0400	806.51	820+50.00	
820+75.00	804.90	-0.0400	9.5	805.28	24	0.0255	805.89				12.0	-0.0400	805.41	820+75.00	
821+00.00	803.90	-0.0400	9.5	804.28	24	0.0215	804.80				12.0	-0.0400	804.32	821+00.00	
821+25.00	802.90	-0.0400	9.5	803.28	24	0.0175	803.70				12.0	-0.0400	803.22	821+25.00	
821+34.16	802.54	-0.0400	9.5	802.92	24	0.0160	803.30				12.0	-0.0400	802.82	821+34.16	
821+50.00	801.90	-0.0400	9.5	802.28	24	0.0135	802.61				12.0	-0.0400	802.13	821+50.00	
821+75.00	800.90	-0.0400	9.5	801.28	24	0.0095	801.51				12.0	-0.0400	801.03	821+75.00	
822+00.00	799.90	-0.0400	9.5	800.28	24	0.0055	800.41				12.0	-0.0400	799.93	822+00.00	
822+25.00	798.90	-0.0400	9.5	799.28	24	0.0015	799.32				12.0	-0.0400	798.84	822+25.00	
822+34.16	798.54	-0.0400	9.5	798.92	24	0.0000	798.92				12.0	-0.0400	798.44	822+34.16	ST
822+50.00	797.90	-0.0400	9.5	798.28	24	-0.0025	798.22				12.0	-0.0400	797.74	822+50.00	
822+75.00	796.90	-0.0400	9.5	797.28	24	-0.0065	797.13				12.0	-0.0400	796.65	822+75.00	
823+00.00	795.90	-0.0400	9.5	796.28	24	-0.0105	796.03				12.0	-0.0400	795.55	823+00.00	
823+25.00	794.90	-0.0400	9.5	795.28	24	-0.0145	794.93				12.0	-0.0400	794.45	823+25.00	
823+34.16	794.54	-0.0400	9.5	794.92	24	-0.0160	794.53				12.0	-0.0400	794.05	823+34.16	NORMAL CROWN

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**SUPERELEVATION TABLE, CURVE #10
SR823, NORTHBOUND**

SCI-823-10.13

677

CALCULATED
DL
CHECKED
RW

SUPERELEVATION TABLE

SR823, CURVE #10 P.I. STA. 795+00.50 DC = 1°15' EMAX = 0.044 FT/FT

STATION	SOUTHBOUND, OUTSIDE SHOULDER			SOUTHBOUND, LANES			PROFILE GRADE (INSIDE EDGE OF PAVEMENT)	SOUTHBOUND, INSIDE SHOULDER					STATION	REMARKS	
	SHOULDER ELEVATION	SHOULDER SLOPE	SHOULDER WIDTH	EDGE OF PAVEMENT ELEVATION	PAVEMENT SLOPE	PAVEMENT WIDTH		SHOULDER WIDTH	SHOULDER SLOPE	POINT ON SHOULDER	SHOULDER WIDTH	SHOULDER SLOPE			SHOULDER ELEVATION
742+49.85	855.75	-0.0400	10	856.15	-0.0160	24	856.54				9.5	-0.0400	856.16	742+49.85	NORMAL CROWN
742+50.00	855.76	-0.0400	10	856.16	-0.0160	24	856.54				9.5	-0.0400	856.16	742+50.00	
742+75.00	856.91	-0.0400	10	857.31	-0.0160	24	857.69				9.5	-0.0400	857.31	742+75.00	
743+00.00	858.06	-0.0400	10	858.46	-0.0160	24	858.84				9.5	-0.0400	858.46	743+00.00	
743+25.00	859.21	-0.0400	10	859.61	-0.0160	24	859.99				9.5	-0.0400	859.61	743+25.00	
743+49.85	860.35	-0.0400	10	860.75	-0.0160	24	861.14				9.5	-0.0400	860.76	743+49.85	TS
743+50.00	860.36	-0.0400	10	860.76	-0.0160	24	861.14				9.5	-0.0400	860.76	743+50.00	
743+75.00	861.51	-0.0400	10	861.91	-0.0160	24	862.29				9.5	-0.0400	861.91	743+75.00	
744+00.00	862.66	-0.0400	10	863.06	-0.0160	24	863.44				9.5	-0.0400	863.06	744+00.00	
744+25.00	863.81	-0.0400	10	864.21	-0.0160	24	864.59				9.5	-0.0400	864.21	744+25.00	
744+49.85	864.95	-0.0400	10	865.35	-0.0160	24	865.74				9.5	-0.0400	865.36	744+49.85	
744+50.00	864.96	-0.0400	10	865.36	-0.0160	24	865.74				9.5	-0.0400	865.36	744+50.00	
744+75.00	866.00	-0.0400	10	866.40	-0.0200	24	866.88				9.5	-0.0400	866.50	744+75.00	
745+00.00	867.02	-0.0400	10	867.42	-0.0240	24	868.00				9.5	-0.0400	867.62	745+00.00	
745+25.00	868.02	-0.0400	10	868.42	-0.0280	24	869.09				9.5	-0.0400	868.71	745+25.00	
745+37.35	868.51	-0.0400	10	868.91	-0.0300	24	869.63				9.5	-0.0400	869.25	745+37.35	
745+50.00	869.00	-0.0400	10	869.40	-0.0320	24	870.17	2.5	0.0320	870.25	7	-0.0400	869.97	745+50.00	
745+75.00	869.95	-0.0400	10	870.35	-0.0360	24	871.22	2.5	0.0360	871.31	7	-0.0400	871.03	745+75.00	
745+99.85	870.88	-0.0400	10	871.28	-0.0400	24	872.24	2.5	0.0400	872.34	7	-0.0400	872.06	745+99.85	
746+00.00	870.88	-0.0400	10	871.28	-0.0400	24	872.24	2.5	0.0400	872.34	7	-0.0400	872.06	746+00.00	
746+24.85	871.75	-0.0440	10	872.19	-0.0440	24	873.24	2.5	0.0440	873.35	7	-0.0400	873.07	746+24.85	SC, FULL SUPER
746+25.00	871.75	-0.0440	10	872.19	-0.0440	24	873.25	2.5	0.0440	873.36	7	-0.0400	873.08	746+25.00	
746+50.00	872.74	-0.0440	10	873.18	-0.0440	24	874.23	2.5	0.0440	874.34	7	-0.0400	874.06	746+50.00	
746+75.00	873.70	-0.0440	10	874.14	-0.0440	24	875.19	2.5	0.0440	875.30	7	-0.0400	875.02	746+75.00	
747+00.00	874.64	-0.0440	10	875.08	-0.0440	24	876.13	2.5	0.0440	876.24	7	-0.0400	875.96	747+00.00	
										FULL SUPER					
819+00.00	810.79	-0.0440	10	811.23	-0.0440	24	812.28	2.5	0.0440	812.39	7	-0.0400	812.11	819+00.00	
819+25.00	809.79	-0.0440	10	810.23	-0.0440	24	811.28	2.5	0.0440	811.39	7	-0.0400	811.11	819+25.00	
819+50.00	808.79	-0.0440	10	809.23	-0.0440	24	810.28	2.5	0.0440	810.39	7	-0.0400	810.11	819+50.00	
819+59.16	808.42	-0.0440	10	808.86	-0.0440	24	809.92	2.5	0.0440	810.03	7	-0.0400	809.75	819+59.16	CS, FULL SUPER
819+75.00	807.87	-0.0415	10	808.29	-0.0415	24	809.28	2.5	0.0415	809.39	7	-0.0400	809.11	819+75.00	
819+84.16	807.56	-0.0400	10	807.96	-0.0400	24	808.92	2.5	0.0400	809.02	7	-0.0400	808.74	819+84.16	
820+00.00	806.98	-0.0400	10	807.38	-0.0375	24	808.28	2.5	0.0375	808.38	7	-0.0400	808.10	820+00.00	
820+25.00	806.08	-0.0400	10	806.48	-0.0335	24	807.28	2.5	0.0335	807.37	7	-0.0400	807.09	820+25.00	
820+46.66	805.30	-0.0400	10	805.70	-0.0300	24	806.42				9.5	-0.0400	806.04	820+46.66	
820+50.00	805.18	-0.0400	10	805.58	-0.0295	24	806.28				9.5	-0.0400	805.90	820+50.00	
820+75.00	804.27	-0.0400	10	804.67	-0.0255	24	805.28				9.5	-0.0400	804.90	820+75.00	
821+00.00	803.37	-0.0400	10	803.77	-0.0215	24	804.28				9.5	-0.0400	803.90	821+00.00	
821+25.00	802.46	-0.0400	10	802.86	-0.0175	24	803.28				9.5	-0.0400	802.90	821+25.00	
821+34.16	802.13	-0.0400	10	802.53	-0.0160	24	802.92				9.5	-0.0400	802.54	821+34.16	
821+50.00	801.50	-0.0400	10	801.90	-0.0160	24	802.28				9.5	-0.0400	801.90	821+50.00	
821+75.00	800.50	-0.0400	10	800.90	-0.0160	24	801.28				9.5	-0.0400	800.90	821+75.00	
822+00.00	799.50	-0.0400	10	799.90	-0.0160	24	800.28				9.5	-0.0400	799.90	822+00.00	
822+25.00	798.50	-0.0400	10	798.90	-0.0160	24	799.28				9.5	-0.0400	798.90	822+25.00	
822+34.16	798.13	-0.0400	10	798.53	-0.0160	24	798.92				9.5	-0.0400	798.54	822+34.16	ST
822+50.00	797.50	-0.0400	10	797.90	-0.0160	24	798.28				9.5	-0.0400	797.90	822+50.00	
822+75.00	796.50	-0.0400	10	796.90	-0.0160	24	797.28				9.5	-0.0400	796.90	822+75.00	
823+00.00	795.50	-0.0400	10	795.90	-0.0160	24	796.28				9.5	-0.0400	795.90	823+00.00	
823+25.00	794.50	-0.0400	10	794.90	-0.0160	24	795.28				9.5	-0.0400	794.90	823+25.00	
823+34.16	794.13	-0.0400	10	794.53	-0.0160	24	794.92				9.5	-0.0400	794.54	823+34.16	NORMAL CROWN

SUPERELEVATION TABLE, CURVE #10
SR823, SOUTHBOUND

SCI - 823 - 10.13

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CURVE # US 23 RAMP A-1

P.I. STA. 1905+37.96

SUPERELEVATION TABLE

CURVE # US 23 RAMP A-2

P.I. STA. 1909+67.56

Dc = 15° 46'24"

E_{max} = 0.0785 FT/FT

Dc = 14° 19'07"

E_{max} = 0.0785 FT/FT

LEFT SHOULDER						BASELINE CONTROL		RAMP PAVEMENT			RIGHT SHOULDER						REMARKS		
SHOULDER ELEVATION	SHOULDER SLOPE	SHOULDER WIDTH	POINT ON SHOULDER	SHOULDER SLOPE	SHOULDER WIDTH	STATION	PROFILE GRADE	PAVEMENT WIDTH	PAVEMENT SLOPE	EDGE OF PAVEMENT ELEVATION	SHOULDER WIDTH	SHOULDER SLOPE	POINT ON SHOULDER	SHOULDER WIDTH	SHOULDER SLOPE	SHOULDER ELEVATION			
SEE PAVEMENT ELEVATION DETAILS, SHEETS XXX-XXX.																			
560.00	-0.0194	6.00	-	-0.0194		1904+10.82	560.12	16.00	-0.0506	559.31						6.10	-0.0506	559.00	BEGIN RAMP A
559.60	-0.0163	6.00	-	-0.0163		1904+25.00	559.69	16.00	-0.0537	558.84						6.37	-0.0537	558.49	
559.43	-0.0151	6.00	-	-0.0151		1904+30.85	559.52	16.00	-0.0549	558.64						6.64	-0.0549	558.28	PC CURVE # US 23 RAMP A-1
559.02	-0.0109	4.00	559.06	-0.0109	2.00	1904+50.00	558.94	16.00	-0.0591	558.00						7.56	-0.0591	557.55	
558.28	-0.0100	4.00	558.32	-0.0646	2.00	1904+75.00	558.19	16.00	-0.0646	557.16						8.64	-0.0646	556.60	
557.54	-0.0100	4.00	557.58	-0.0701	2.00	1905+00.00	557.44	16.00	-0.0701	556.32						9.58	-0.0701	555.65	
557.18	-0.0100	4.00	557.22	-0.0728	2.00	1905+12.65	557.07	16.00	-0.0728	555.90						9.98	-0.0728	555.18	
556.81	-0.0100	4.00	556.85	-0.0755	2.00	1905+25.00	556.69	16.00	-0.0755	555.49						10.36	-0.0755	554.70	
557.36	-0.0100	4.00	557.40	-0.0785	2.00	1905+38.61	556.29	16.00	-0.0785	555.03						10.65	-0.0785	554.20	BEGIN FULL SUPER
556.06	-0.0100	4.00	556.10	-0.0785	2.00	1905+50.00	555.94	16.00	-0.0785	554.69						11.00	-0.0785	553.83	
555.31	-0.0100	4.00	555.35	-0.0785	2.00	1905+75.00	555.19	16.00	-0.0785	553.94						11.48	-0.0785	553.04	
554.56	-0.0100	4.00	554.60	-0.0785	2.00	1906+00.00	554.44	16.00	-0.0785	553.19						11.81	-0.0785	552.26	
553.81	-0.0100	4.00	553.85	-0.0785	2.00	1906+25.00	553.69	16.00	-0.0785	552.44						11.97	-0.0785	551.50	
553.39	-0.0100	4.00	553.43	-0.0785	2.00	1906+39.16	553.27	16.00	-0.0785	552.01						12.00	-0.0785	551.07	PCC CURVE # US 23 RAMP A-2
553.06	-0.0100	4.00	553.10	-0.0785	2.00	1906+50.00	552.94	16.00	-0.0785	551.69						12.00	-0.0785	550.75	
												FULL SUPER							
543.51	-0.0100	4.00	543.55	-0.0785	2.00	1910+63.48	543.39	16.00	-0.0785	542.13						12.00	-0.0785	541.19	END FULL SUPER
543.44	-0.0100	4.00	543.48	-0.0761	2.00	1910+75.00	543.33	16.00	-0.0761	542.11						12.00	-0.0761	541.20	
543.31	-0.0100	4.00	543.35	-0.0709	2.00	1911+00.00	543.21	16.00	-0.0709	542.07						12.00	-0.0709	541.22	
543.18	-0.0100	4.00	543.22	-0.0657	2.00	1911+25.00	543.08	16.00	-0.0657	542.03						12.00	-0.0657	541.24	
543.04	-0.0100	4.00	543.08	-0.0605	2.00	1911+50.00	542.96	16.00	-0.0605	541.99						12.00	-0.0605	541.27	
542.75	-0.0147	6.00	-	-0.0147		1911+75.00	542.84	16.00	-0.0553	541.95						12.00	-0.0553	541.29	
542.66	-0.0177	6.00	-	-0.0177		1911+89.15	542.77	16.00	-0.0523	541.93						12.00	-0.0523	541.30	PT CURVE # US 23 RAMP A-2
542.60	-0.0199	6.00	-	-0.0199		1912+00.00	542.72	16.00	-0.0501	541.91						12.16	-0.0501	541.30	
542.44	-0.0251	6.00	-	-0.0251		1912+25.00	542.59	16.00	-0.0449	541.87						13.73	-0.0449	541.26	
542.29	-0.0303	6.00	-	-0.0303		1912+50.00	542.47	16.00	-0.0397	541.83						17.01	-0.0400	541.15	
542.24	-0.0320	6.00	-	-0.0320		1912+58.13	542.43	16.00	-0.0380	541.82						18.44	-0.0400	541.08	
542.11	-0.0400	6.00	-	-0.0400		1912+75.00	542.35	16.00	-0.0345	541.79						4.00	-0.0400	541.63	
541.98	-0.0400	6.00	-	-0.0400		1913+00.00	542.22	16.00	-0.0293	541.76						4.00	-0.0400	541.60	
541.86	-0.0400	6.00	-	-0.0400		1913+25.00	542.10	16.00	-0.0240	541.72						4.00	-0.0400	541.56	
541.74	-0.0400	6.00	-	-0.0400		1913+50.00	541.98	16.00	-0.0188	541.68						4.00	-0.0400	541.52	
541.61	-0.0400	6.00	-	-0.0400		1913+75.00	541.85	16.00	-0.0136	541.64						4.00	-0.0400	541.48	
541.49	-0.0400	6.00	-	-0.0400		1914+00.00	541.73	16.00	-0.0084	541.60						4.00	-0.0400	541.44	
541.37	-0.0400	6.00	-	-0.0400		1914+25.00	541.61	16.00	-0.0032	541.56						4.00	-0.0400	541.40	
541.25	-0.0400	6.00	-	-0.0400		1914+50.00	541.49	16.00	0.0020	541.52						4.00	-0.0400	541.36	
541.12	-0.0400	6.00	-	-0.0400		1914+75.00	541.36	16.00	0.0072	541.48						4.00	-0.0400	541.32	
541.00	-0.0400	6.00	-	-0.0400		1915+00.00	541.24	16.00	0.0124	541.44						4.00	-0.0400	541.28	
540.88	-0.0400	6.00	-	-0.0400		1915+25.00	541.12	16.00	0.0176	541.40						4.00	-0.0400	541.24	
540.75	-0.0400	6.00	-	-0.0400		1915+50.00	540.99	16.00	0.0228	541.36						4.00	-0.0400	541.20	
540.63	-0.0400	6.00	-	-0.0400		1915+75.00	540.87	16.00	0.0280	541.32						4.00	-0.0400	541.16	
540.51	-0.0400	6.00	-	-0.0400		1916+00.00	540.75	16.00	0.0332	541.28						4.00	-0.0368	541.13	
540.38	-0.0400	6.00	-	-0.0400		1916+25.00	540.62	16.00	0.0384	541.24						4.00	-0.0316	541.11	

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SUPERELEVATION TABLE - US 23 INTERCHANGE - RAMP A

SCI-823-10.13

CURVE # US 23 RAMP A-3

P.I. STA. 1919+66.34

SUPERELEVATION TABLE

CURVE # US 23 RAMP A-4

P.I. STA. 1925+53.89

Dc = 6° 0'00"

E_{max} = 0.070 FT/FT

Dc = 1° 30'00"

E_{max} = 0.030 FT/FT

LEFT SHOULDER						BASELINE CONTROL		RAMP PAVEMENT			RIGHT SHOULDER						REMARKS
SHOULDER ELEVATION	SHOULDER SLOPE	SHOULDER WIDTH	POINT ON SHOULDER	SHOULDER SLOPE	SHOULDER WIDTH	STATION	PROFILE GRADE	PAVEMENT WIDTH	PAVEMENT SLOPE	EDGE OF PAVEMENT ELEVATION	SHOULDER WIDTH	SHOULDER SLOPE	POINT ON SHOULDER	SHOULDER WIDTH	SHOULDER SLOPE	SHOULDER ELEVATION	
540.24	-0.0436	6.00	-	-0.0436		1916+50.00	540.50	16.00	0.0436	541.20				4.00	-0.0264	541.09	
540.15	-0.0467	6.00	-	-0.0467		1916+64.62	540.43	16.00	0.0467	541.18				4.00	-0.0233	541.08	PC CURVE # US 23 RAMP A-3
540.09	-0.0488	6.00	-	-0.0488		1916+75.00	540.38	16.00	0.0488	541.16				4.00	-0.0212	541.08	
539.93	-0.0540	6.00	-	-0.0540		1917+00.00	540.26	16.00	0.0540	541.12				4.00	-0.0160	541.06	
539.78	-0.0592	6.00	-	-0.0592		1917+25.00	540.13	16.00	0.0592	541.08				4.00	-0.0108	541.04	
539.62	-0.0644	6.00	-	-0.0644		1917+50.00	540.01	16.00	0.0644	541.04	2.00	0.0644	541.17	2.00	-0.0100	541.15	
539.47	-0.0696	6.00	-	-0.0696		1917+75.00	539.89	16.00	0.0696	541.00	2.00	0.0696	541.14	2.00	-0.0100	541.12	
539.46	-0.0700	6.00	-	-0.0700		1917+76.68	539.88	16.00	0.0700	541.00	2.00	0.0700	541.14	2.00	-0.0100	541.12	BEGIN FULL SUPER
												FULL SUPER					
538.98	-0.0700	6.00	-	-0.0700		1922+49.09	539.40	16.00	0.0700	540.52	2.00	0.0700	540.66	2.00	-0.0100	540.64	PCC CURVE # US 23 RAMP A-4
538.99	-0.0697	6.00	-	-0.0697		1922+50.00	539.41	16.00	0.0697	540.52	2.00	0.0697	540.66	2.00	-0.0100	540.64	
539.10	-0.0619	6.00	-	-0.0619		1922+75.00	539.47	16.00	0.0619	540.46	2.00	0.0619	540.58	2.00	-0.0100	540.56	
539.21	-0.0541	6.00	-	-0.0541		1923+00.00	539.53	16.00	0.0541	540.40				4.00	-0.0159	540.33	
539.87	0.0463	6.00	-	0.0463		1923+25.00	539.59	16.00	0.0463	540.33				4.00	-0.0237	540.24	
539.42	-0.0400	6.00	-	-0.0400		1923+50.00	539.66	16.00	0.0385	540.27				4.00	-0.0315	540.14	
539.48	-0.0400	6.00	-	-0.0400		1923+75.00	539.72	16.00	0.0307	540.21				4.00	-0.0393	540.05	
539.48	-0.0400	6.00	-	-0.0400		1923+77.09	539.72	16.00	0.0300	540.20				4.00	-0.0400	540.04	BEGIN FULL SUPER
												FULL SUPER					
540.40	-0.04					1928+42.47	540.72										END FULL SUPER
540.41	-0.04					1928+50.00	540.73										
540.42	-0.04					1928+57.40	540.74										PT CURVE # US 23 RAMP A-4
540.43	-0.04					1928+75.00	540.75										
540.44	-0.04					1928+87.27	540.76										NORMAL CROWN

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SUPERELEVATION TABLE - US 23 INTERCHANGE - RAMP A

SCI-823-10.13

682

CURVE # US 23 RAMP B-3

P.I. STA. 2609+99.07

SUPERELEVATION TABLE

CURVE # US 23 RAMP B-4

P.I. STA. 2616+06.63

Dc = 11° 15' 00"

E_{max} = 0.071 FT/FT

Dc = 1° 0' 00"

E_{max} = 0.029 FT/FT

LEFT SHOULDER						RAMP PAVEMENT			BASELINE CONTROL		RIGHT SHOULDER						REMARKS
SHOULDER ELEVATION	SHOULDER SLOPE	SHOULDER WIDTH	POINT ON SHOULDER	SHOULDER SLOPE	SHOULDER WIDTH	EDGE OF PAVEMENT ELEVATION	PAVEMENT SLOPE	PAVEMENT WIDTH	STATION	PROFILE GRADE	SHOULDER WIDTH	SHOULDER SLOPE	POINT ON SHOULDER	SHOULDER WIDTH	SHOULDER SLOPE	SHOULDER ELEVATION	
564.42	-0.0400	6.00	-	-	-	564.66	0.0160	16.00	2602+67.16	564.40				8.00	-0.0400	564.08	NORMAL CROWN
563.91	-0.0400	6.00	-	-	-	564.15	0.0190	16.00	2602+75.00	563.85				8.00	-0.0400	563.53	
565.51	-0.0400	6.00	-	-	-	565.75	0.0287	16.00	2603+00.00	565.29				8.00	-0.0400	564.97	
567.26	-0.0400	4.00	567.42	0.0385	2.00	567.35	0.0385	16.00	2603+25.00	566.73				8.00	-0.0400	566.41	
568.88	-0.0400	4.00	569.04	0.0482	2.00	568.94	0.0482	16.00	2603+50.00	568.17				8.00	-0.0482	567.78	
570.49	-0.0400	4.00	570.65	0.0579	2.00	570.54	0.0579	16.00	2603+75.00	569.61				8.00	-0.0579	569.15	
572.11	-0.0400	4.00	572.27	0.0676	2.00	572.13	0.0676	16.00	2604+00.00	571.05				8.00	-0.0676	570.51	
572.68	-0.0400	4.00	572.84	0.0710	2.00	572.70	0.0710	16.00	2604+08.84	571.56				8.00	-0.0710	570.99	BEGIN FULL SUPER, CURVE #23 RAMP B-3
574.99	-0.0400	4.00	575.15	0.0710	2.00	575.01	0.0710	16.00	2604+25.00	573.87				8.00	-0.0710	573.30	
599.97	-0.0400	4.00	600.13	0.0710	2.00	599.99	0.0710	16.00	2612+25.25	598.85				8.00	-0.0710	598.28	END FULL SUPER, CURVE #23 RAMP B-3
600.58	-0.0400	4.00	600.74	0.0640	2.00	600.61	0.0640	16.00	2612+50.00	599.59				8.00	-0.0640	599.08	
601.20	-0.0400	4.00	601.36	0.0570	2.00	601.24	0.0570	16.00	2612+74.98	600.33				8.00	-0.0570	599.87	PCC
601.20	-0.0400	4.00	601.36	0.0570	2.00	601.24	0.0570	16.00	2612+75.00	600.33				8.00	-0.0570	599.87	
601.82	-0.0400	4.00	601.98	0.0500	2.00	601.88	0.0500	16.00	2613+00.00	601.08				8.00	-0.0500	600.68	
602.43	-0.0400	4.00	602.59	0.0429	2.00	602.51	0.0429	16.00	2613+25.00	601.82				8.00	-0.0429	601.48	
602.86	-0.0400	4.00	603.02	0.0382	2.00	602.94	0.0382	16.00	2613+41.87	602.33				8.00	-0.0400	602.01	GORE NOSE
						603.14	0.0359	16.00	2613+50.00	602.57				8.00	-0.0400	602.25	
						603.76	0.0290	16.00	2613+74.44	603.30				8.00	-0.0400	602.98	BEGIN FULL SUPER, CURVE #23 RAMP B-4

SEE PAVEMENT ELEVATION DETAILS, SHEETS XXX-XXX.

FULL SUPER

CALCULATED
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SUPERELEVATION TABLE - US 23 INTERCHANGE - RAMP B

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CURVE # US 23 RAMP C-1 P.I. STA. 3889+21.16
 Dc = 1°00'00" Emax = 0.029 FT/FT

SUPERELEVATION TABLE

CURVE # US 23 RAMP C-2 P.I. STA. 3898+09.03
 Dc = 7°45'00" Emax = 0.069 FT/FT

LEFT SHOULDER						RAMP PAVEMENT			BASELINE CONTROL		RIGHT SHOULDER						REMARKS
SHOULDER ELEVATION	SHOULDER SLOPE	SHOULDER WIDTH	POINT ON SHOULDER	SHOULDER SLOPE	SHOULDER WIDTH	EDGE OF PAVEMENT ELEVATION	PAVEMENT SLOPE	PAVEMENT WIDTH	STATION	PROFILE GRADE	SHOULDER WIDTH	SHOULDER SLOPE	POINT ON SHOULDER	SHOULDER WIDTH	SHOULDER SLOPE	SHOULDER ELEVATION	
SEE PAVEMENT ELEVATION DETAILS, SHEETS XXX-XXX.																	
596.98	0.0033	6.00	-	-	-	596.96	0.0290	16.00	3891+25.00	596.50				8.00	-0.0400	596.18	FULL SUPER, CURVE #23 RAMP C-1
596.05	-0.0200	6.00	-	-	-	596.16	0.0290	16.00	3891+50.00	595.70				8.00	-0.0400	595.38	
595.12	-0.0400	6.00	-	-	-	595.36	0.0290	16.00	3891+75.00	594.90				8.00	-0.0400	594.58	
594.32	-0.0400	6.00	-	-	-	594.56	0.0290	16.00	3892+00.00	594.10				8.00	-0.0400	593.78	
593.52	-0.0400	6.00	-	-	-	593.76	0.0290	16.00	3892+25.00	593.30				8.00	-0.0400	592.98	
592.72	-0.0400	6.00	-	-	-	592.96	0.0290	16.00	3892+50.00	592.50				8.00	-0.0400	592.18	
591.92	-0.0400	6.00	-	-	-	592.16	0.0290	16.00	3892+75.00	591.70				8.00	-0.0400	591.38	
591.12	-0.0400	6.00	-	-	-	591.36	0.0290	16.00	3893+00.00	590.90				8.00	-0.0400	590.58	
590.36	-0.0400	6.00	-	-	-	590.60	0.0290	16.00	3893+25.00	590.14				8.00	-0.0400	589.82	
590.20	-0.0400	6.00	-	-	-	590.44	0.0290	16.00	3893+30.50	589.98				8.00	-0.0400	589.66	END FULL SUPER, CURVE #23 RAMP C-1
589.91	-0.0400	4.00	590.07	0.0345	2.00	590.00	0.0345	16.00	3893+50.00	589.45				8.00	-0.0400	589.13	
589.43	-0.0400	4.00	589.59	0.0415	2.00	589.50	0.0415	16.00	3893+75.00	588.84				8.00	-0.0415	588.51	
589.01	-0.0400	4.00	589.17	0.0486	2.00	589.08	0.0486	16.00	3894+00.00	588.30				8.00	-0.0486	587.91	
588.99	-0.0400	4.00	589.15	0.0490	2.00	589.05	0.0490	16.00	3894+01.54	588.27				8.00	-0.0490	587.88	PCC
588.68	-0.0400	4.00	588.84	0.0556	2.00	588.73	0.0556	16.00	3894+25.00	587.84				8.00	-0.0556	587.40	
588.42	-0.0400	4.00	588.58	0.0626	2.00	588.45	0.0626	16.00	3894+50.00	587.45				8.00	-0.0626	586.95	
588.25	-0.0400	4.00	588.41	0.0690	2.00	588.27	0.0690	16.00	3894+72.58	587.17				8.00	-0.0690	586.62	BEGIN FULL SUPER, CURVE #23 RAMP C-2
588.22	-0.0400	4.00	588.38	0.0690	2.00	588.24	0.0690	16.00	3894+75.00	587.14				8.00	-0.0690	586.59	
FULL SUPER																	
568.17	-0.0400	4.00	568.33	0.0690	2.00	568.19	0.0690	16.00	3900+97.77	567.09				8.00	-0.0690	566.54	END FULL SUPER, CURVE #23 RAMP C-2
568.03	-0.0400	4.00	568.19	0.0682	2.00	568.05	0.0682	16.00	3901+00.00	566.96				8.00	-0.0682	566.41	
566.40	-0.0400	4.00	566.56	0.0591	2.00	566.45	0.0591	16.00	3901+25.00	565.50				8.00	-0.0591	565.03	
564.77	-0.0400	4.00	564.93	0.0500	2.00	564.83	0.0500	16.00	3901+50.00	564.03				8.00	-0.0500	563.63	
563.15	-0.0400	4.00	563.31	0.0409	2.00	563.22	0.0409	16.00	3901+75.00	562.57				8.00	-0.0409	562.24	
561.52	-0.0400	4.00	561.68	0.0319	2.00	561.62	0.0319	16.00	3902+00.00	561.11				8.00	-0.0400	560.79	
559.77	-0.0400	6.00	-	-	-	560.01	0.0228	16.00	3902+25.00	559.65				8.00	-0.0400	559.33	
558.58	-0.0400	6.00	-	-	-	558.82	0.0160	16.00	3902+43.63	558.56				8.00	-0.0400	558.24	NORMAL CROWN
558.21	-0.0400	6.00	-	-	-	558.45	0.0160	16.00	3902+50.00	558.19				8.00	-0.0400	557.87	

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SUPERELEVATION TABLE - US 23 INTERCHANGE - RAMP C

SCI-823-10.13

CURVE # US 23 RAMP D-1 P.I. STA. 4911+40.23
 Dc = 16° 30'00" Emax = 0.079 FT/FT

SUPERELEVATION TABLE

LEFT SHOULDER						RAMP PAVEMENT			BASELINE CONTROL		RIGHT SHOULDER						REMARKS
SHOULDER ELEVATION	SHOULDER SLOPE	SHOULDER WIDTH	POINT ON SHOULDER	SHOULDER SLOPE	SHOULDER WIDTH	EDGE OF PAVEMENT ELEVATION	PAVEMENT SLOPE	PAVEMENT WIDTH	STATION	PROFILE GRADE	SHOULDER WIDTH	SHOULDER SLOPE	POINT ON SHOULDER	SHOULDER WIDTH	SHOULDER SLOPE	SHOULDER ELEVATION	
SEE PAVEMENT ELEVATION DETAILS, SHEETS XXX-XXX.																	
559.24	-0.0400	4.10	559.41	0.0475	2.00	559.31	0.0475	16.00	4904+10.82	558.55				6.00	-0.0475	558.27	BEGIN RAMP D, PC CURVE # US 23 RAMP D-1
558.74	-0.0400	4.10	558.90	0.0506	2.00	558.80	0.0506	16.00	4904+25.00	557.99				6.00	-0.0506	557.69	
557.86	-0.0400	4.10	558.02	0.0561	2.00	557.91	0.0561	16.00	4904+50.00	557.01				6.00	-0.0561	556.67	
556.96	-0.0400	4.10	557.13	0.0615	2.00	557.00	0.0615	16.00	4904+75.00	556.02				6.00	-0.0615	555.65	
556.08	-0.0400	4.10	556.25	0.0670	2.00	556.11	0.0670	16.00	4905+00.00	555.04				6.00	-0.0670	554.64	
555.19	-0.0400	4.10	555.35	0.0725	2.00	555.21	0.0725	16.00	4905+25.00	554.05				6.00	-0.0725	553.62	
554.31	-0.0400	4.10	554.47	0.0779	2.00	554.32	0.0779	16.00	4905+50.00	553.07				6.00	-0.0779	552.60	
554.13	-0.0400	4.10	554.29	0.0790	2.00	554.13	0.0790	16.00	4905+54.96	552.87				6.00	-0.0790	552.40	BEGIN FULL SUPER
553.34	-0.0400	4.10	553.50	0.0790	2.00	553.34	0.0790	16.00	4905+75.00	552.08				6.00	-0.0790	551.61	
FULL SUPER																	
537.45	-0.0100	2.00	537.47	0.0790	2.00	537.32	0.0790	16.00	4917+75.00	538.58				6.00	-0.0790	538.11	
537.80	-0.0100	2.00	537.82	0.0790	2.00	537.67	0.0790	16.00	4918+00.00	538.93				6.00	-0.0790	538.46	
537.95	-0.0100	2.00	537.97	0.0790	2.00	537.82	0.0790	16.00	4918+10.31	539.08				6.00	-0.0790	538.61	END FULL SUPER, CS CURVE # US 23 RAMP D-1
SEE PAVEMENT ELEVATION DETAILS, SHEETS XXX-XXX.																	

CALCULATED
 ADW
 CHECKED
 MME

SUPERELEVATION TABLE - US 23 INTERCHANGE - RAMP D

SCI-823-10.13

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CURVE# CR184-1

DC = 6°15'

CURVE# CR184-2

SUPERELEVATION TABLE

DC = 20°

CURVE# CR184-3

DC = 17°

P.I. STA. 12+40.36

EMAX. = 0.034 FT/FT

P.I. STA. 16+77.84

EMAX. = 0.064 FT/FT

P.I. STA. 25+66.55

EMAX. = 0.060 FT/FT

Table with columns: LEFT SHOULDER (Shoulder Elevation, Slope, Width, Point on Shoulder, Shoulder Slope, Width), WB PAVEMENT (Edge of Pavement Elevation, Pavement Slope, Pavement Width), CENTERLINE CONTROL (Station, Profile Grade), EB PAVEMENT (Pavement Width, Pavement Slope, Edge of Pavement Elevation), RIGHT SHOULDER (Shoulder Width, Shoulder Slope, Point on Shoulder, Shoulder Width, Shoulder Slope, Shoulder Elevation), and REMARKS. Includes data rows and 'FULL SUPER' callouts with arrows.

SEE SHEET NO. XX

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SUPERELEVATION TABLE - CR184

SCI-823-10.13

CURVE# CR184-1

DC = 6°15'

CURVE# CR184-2

SUPERELEVATION TABLE

DC = 20°

CURVE# CR184-3

DC = 17°

P.I. STA. 12+40.36

EMAX. = 0.034 FT/FT

P.I. STA. 16+77.84

EMAX. = 0.064 FT/FT

P.I. STA. 25+66.55

EMAX. = 0.060 FT/FT

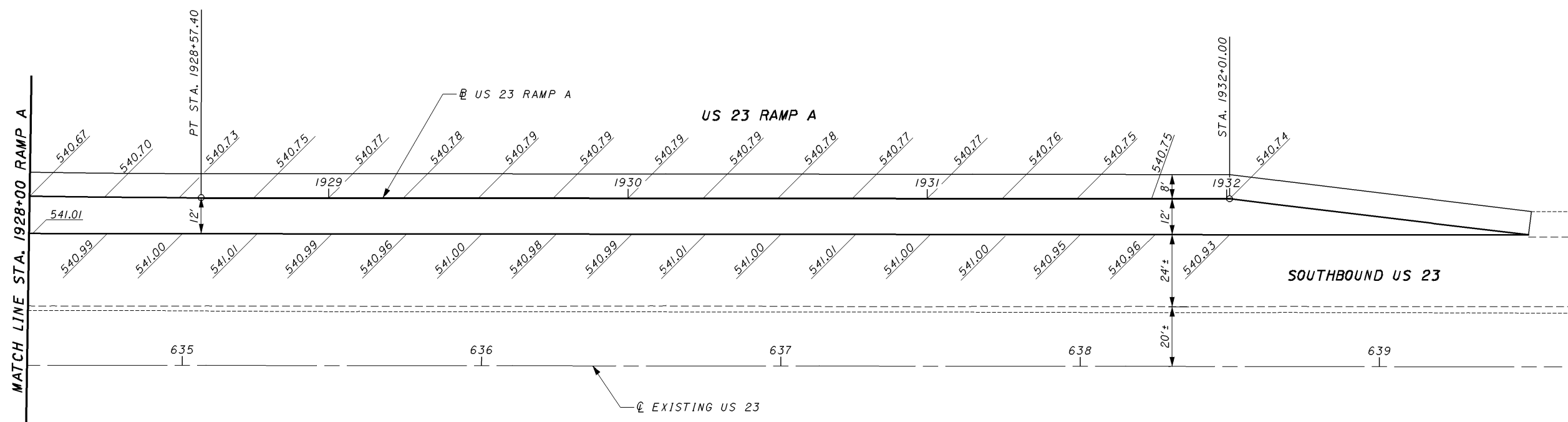
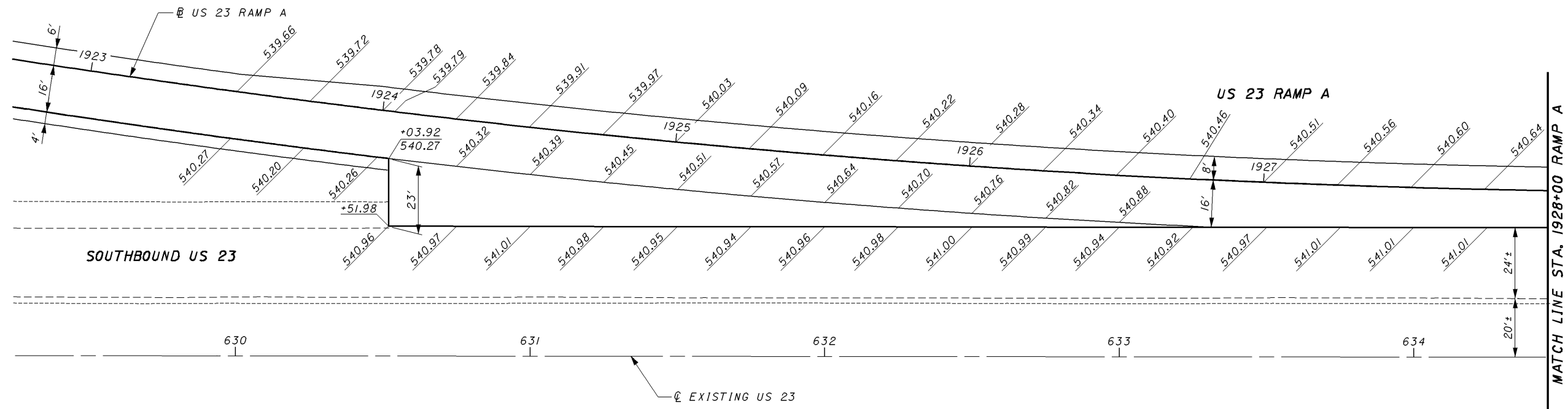
Table with columns: LEFT SHOULDER, WB PAVEMENT, CENTERLINE CONTROL, EB PAVEMENT, RIGHT SHOULDER, REMARKS. Rows include stationing data from 996.43 to 1008.33.

SUPERELEVATION TABLE - CR184

SCI-823-10.13

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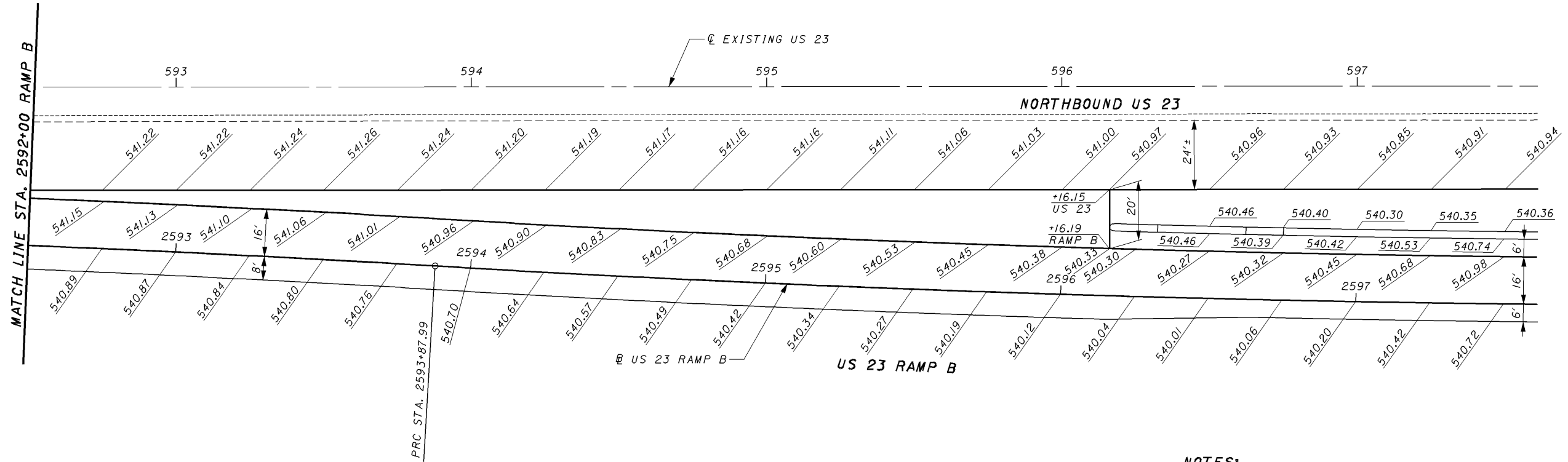
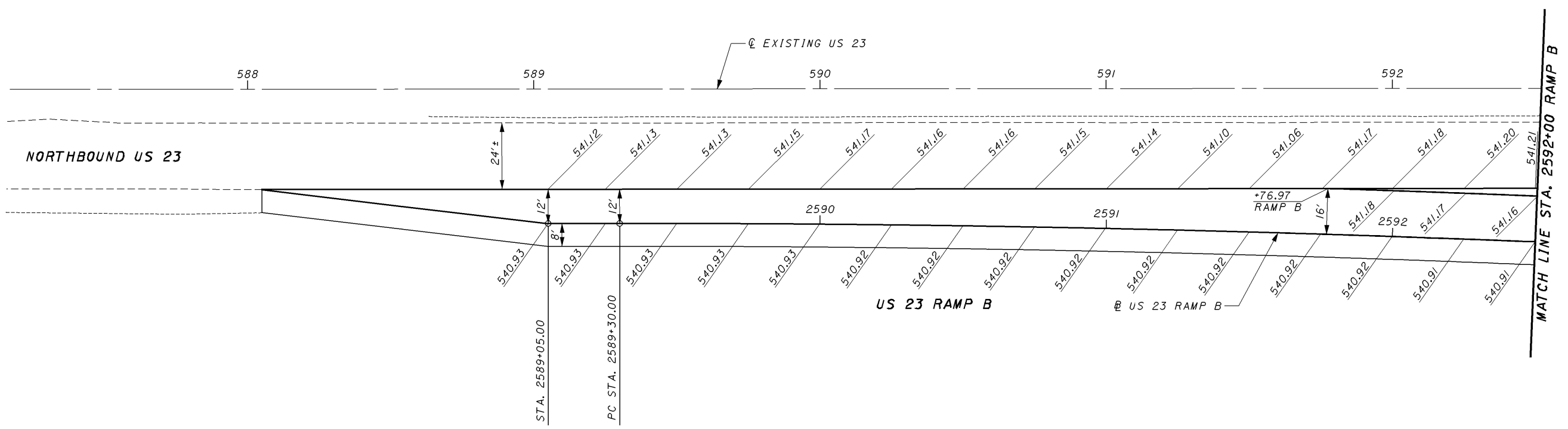
**US 23 INTERCHANGE RAMP A PAVEMENT ELEVATIONS
SPEED CHANGE LANE AT US 23**

SCI-823-10.13

688

NOTES:
1. ELEVATIONS ARE SHOWN EVERY 25 FEET UNLESS OTHERWISE NOTED.

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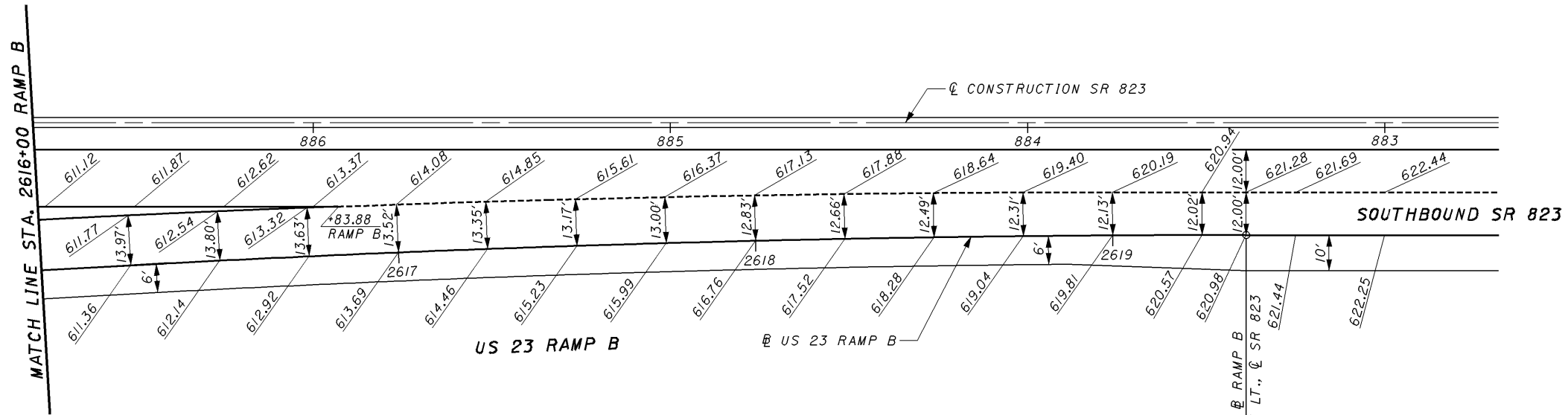


NOTES:
 1. ELEVATIONS ARE SHOWN EVERY 25 FEET UNLESS OTHERWISE NOTED.



CALCULATED: ADW
 CHECKED: MME
US 23 INTERCHANGE RAMP B PAVEMENT ELEVATIONS
SPEED CHANGE LANE AT US 23

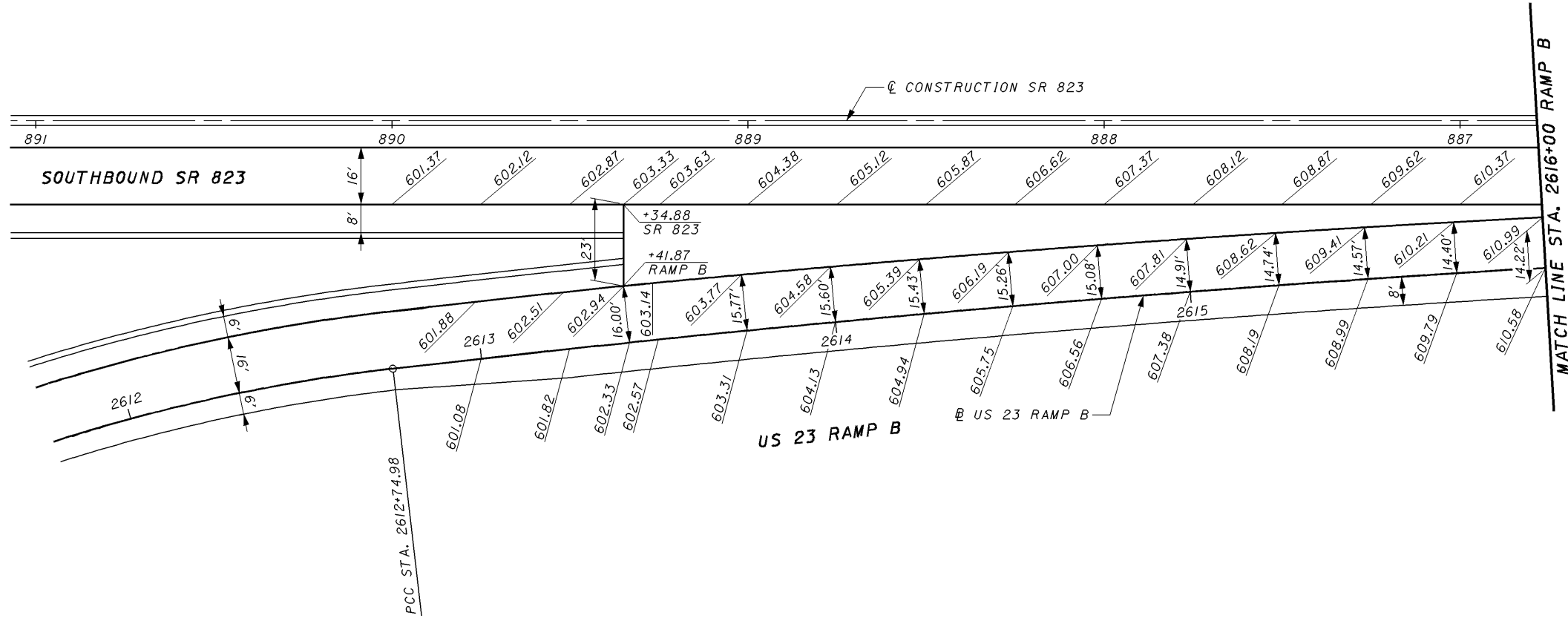
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 689



END RAMP B
PT. STA. 2619+37.35, @ RAMP B
STA. 883+38.81, 31.5' LT., @ SR 823

NOTES:

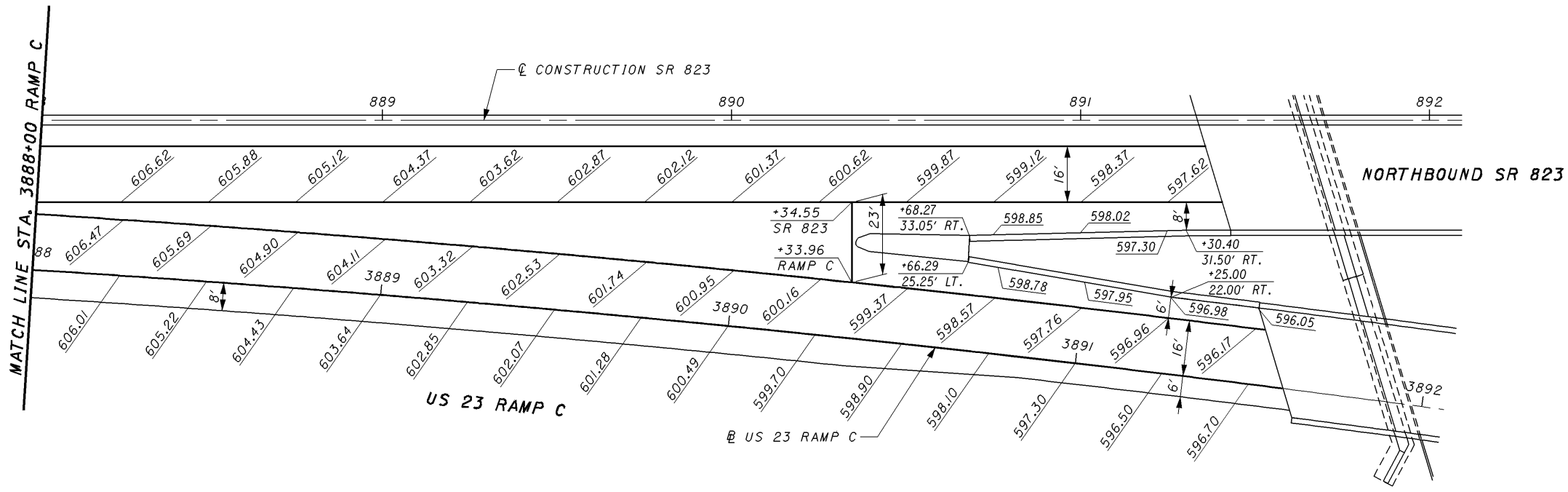
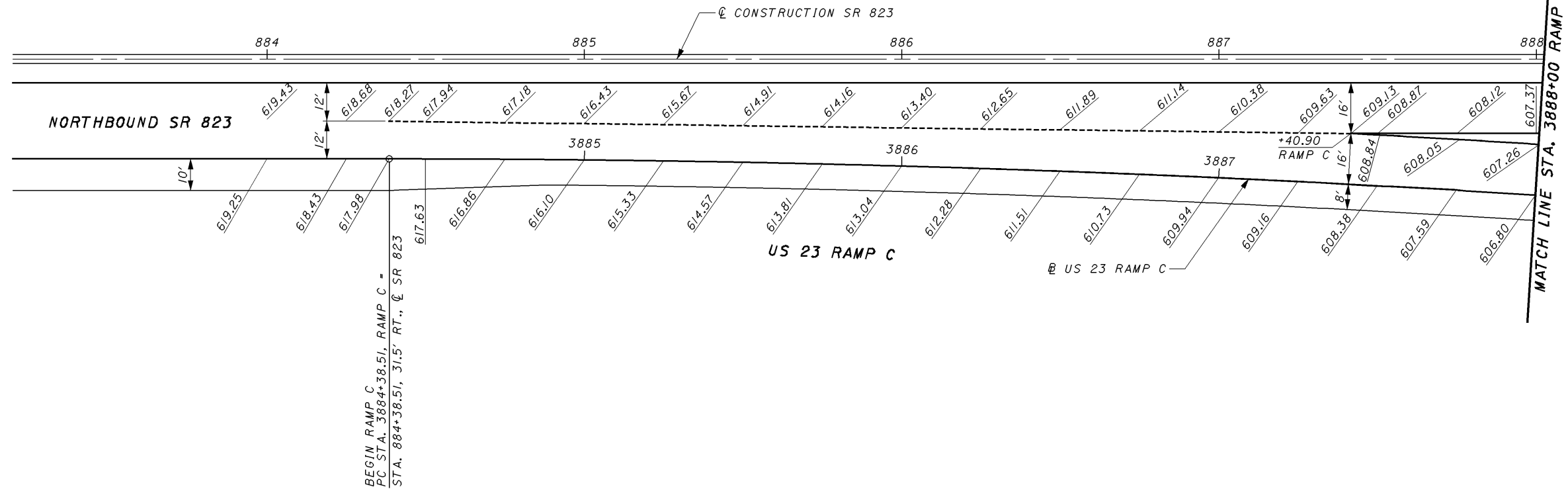
1. ELEVATIONS ARE SHOWN EVERY 25 FEET UNLESS OTHERWISE NOTED.



CALCULATED: ADW
CHECKED: MME
**US 23 INTERCHANGE RAMP B PAVEMENT ELEVATIONS
SPEED CHANGE LANE AT SR 823**

SCI-823-10.13
690

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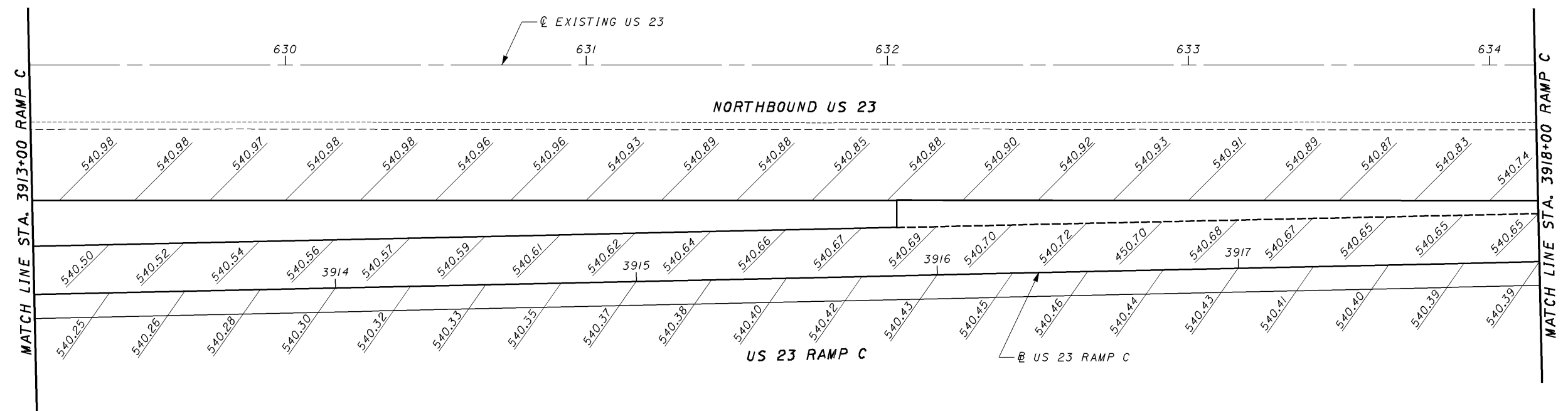
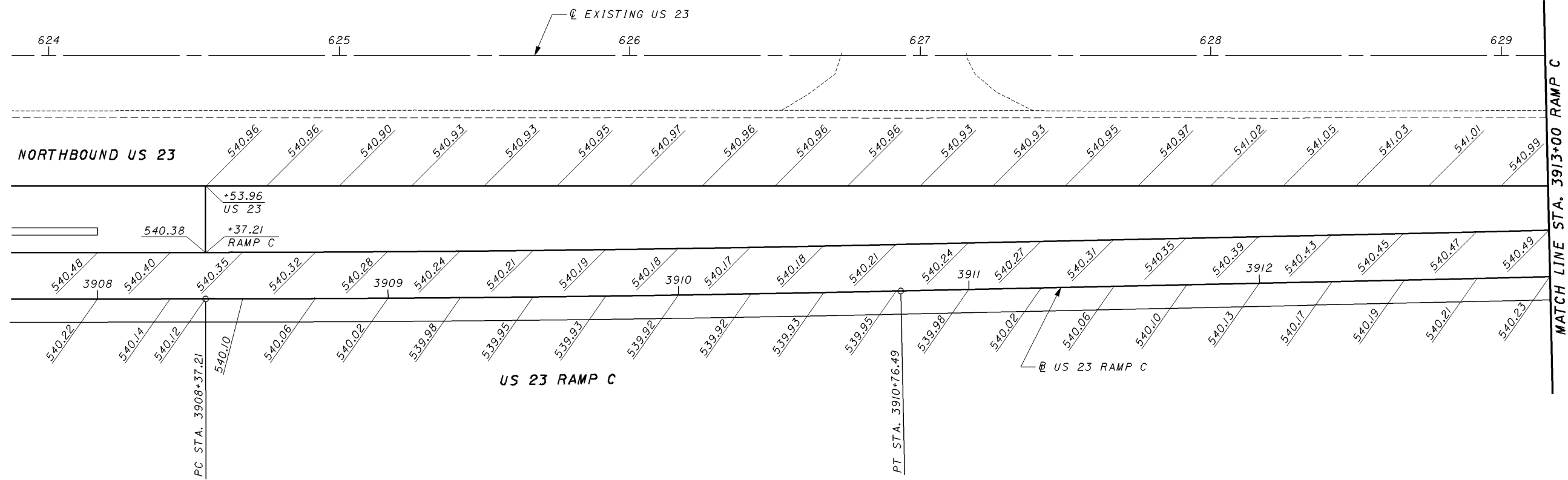
NOTES:
 1. ELEVATIONS ARE SHOWN EVERY 25 FEET UNLESS OTHERWISE NOTED.



CALCULATED
 ADW
 CHECKED
 MME
US 23 INTERCHANGE RAMP C PAVEMENT ELEVATIONS
SPEED CHANGE LANE AT SR 823

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 691

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NOTES:
1. ELEVATIONS ARE SHOWN EVERY 25 FEET UNLESS OTHERWISE NOTED.

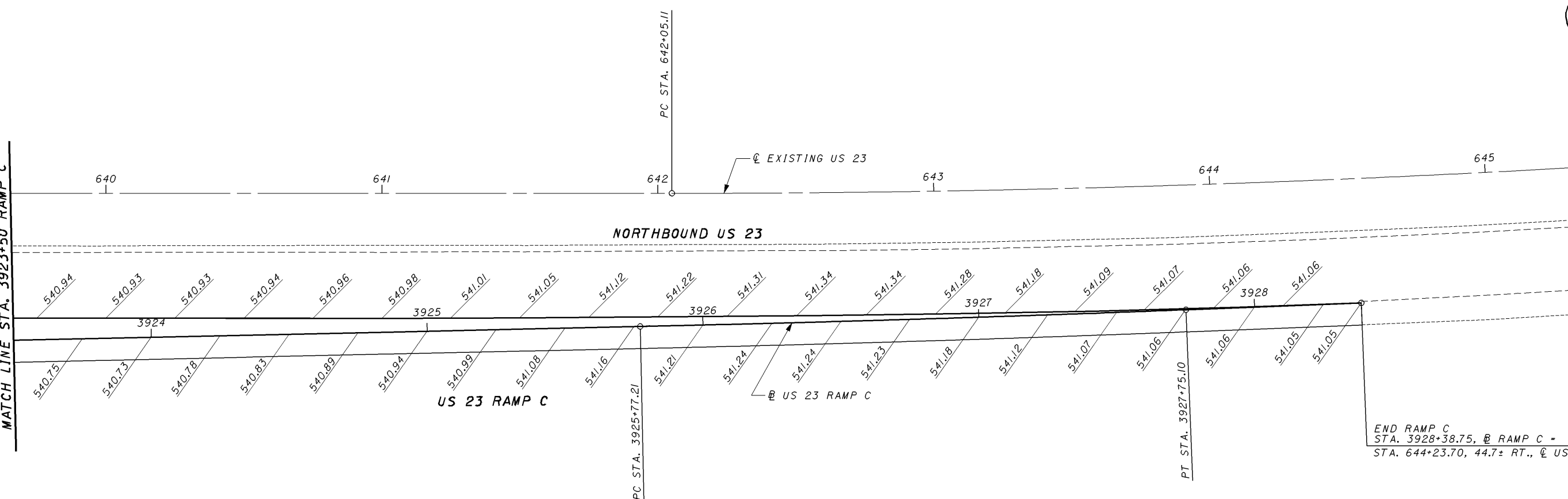
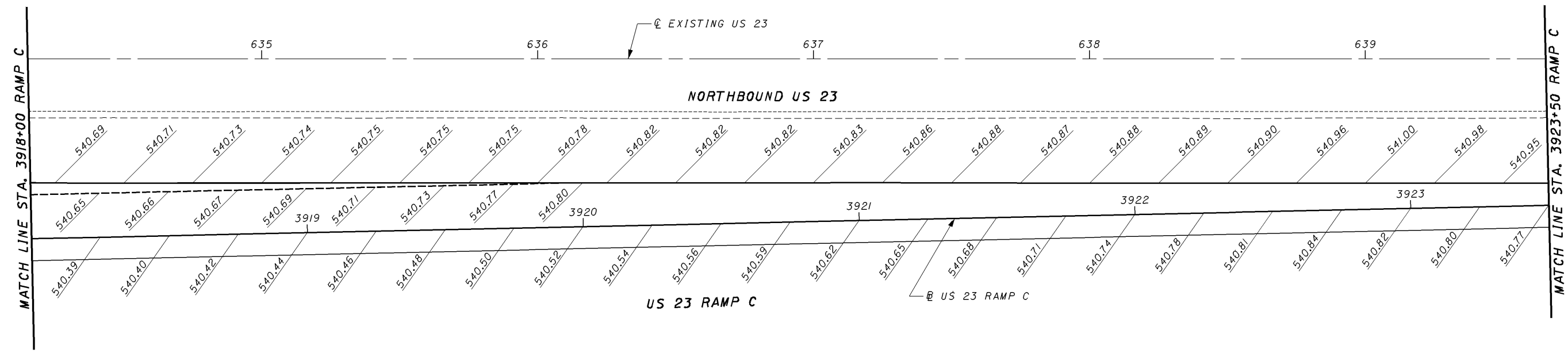


US 23 INTERCHANGE RAMP C PAVEMENT ELEVATIONS
SPEED CHANGE LANE AT US 23

SCI-823-10.13

692

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END RAMP C
 STA. 3928+38.75, @ RAMP C =
 STA. 644+23.70, 44.7± RT., @ US 23

NOTES:
 1. ELEVATIONS ARE SHOWN EVERY 25 FEET UNLESS OTHERWISE NOTED.



CALCULATED: ADW
 CHECKED: MME

**US 23 INTERCHANGE RAMP C PAVEMENT ELEVATIONS
 SPEED CHANGE LANE AT US 23**

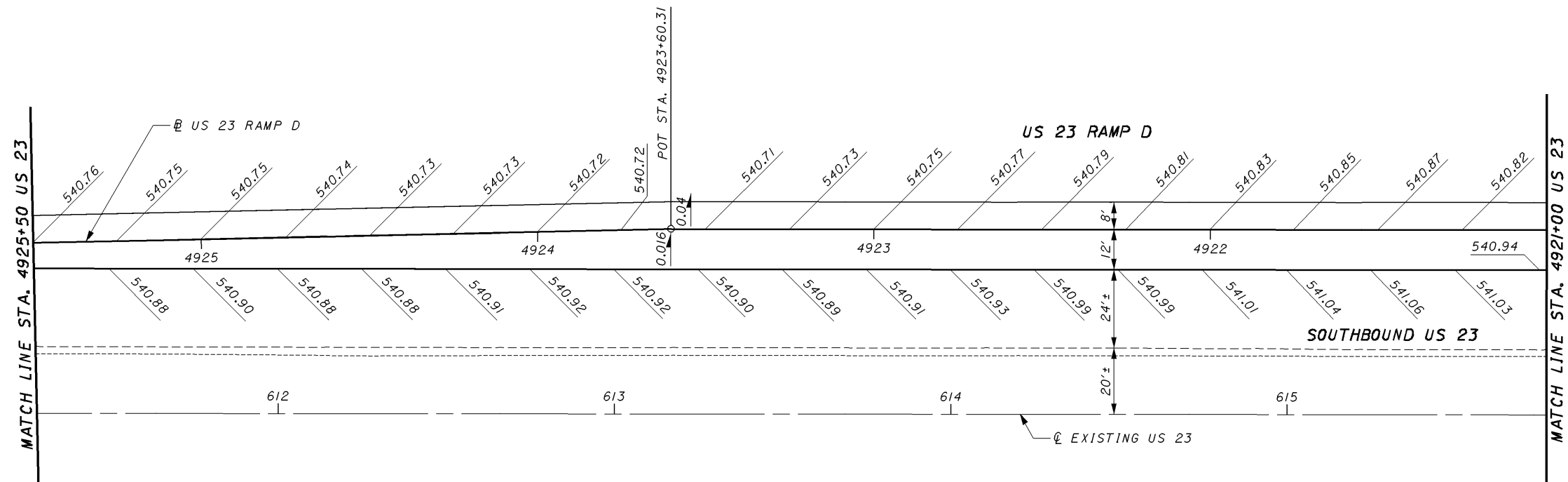
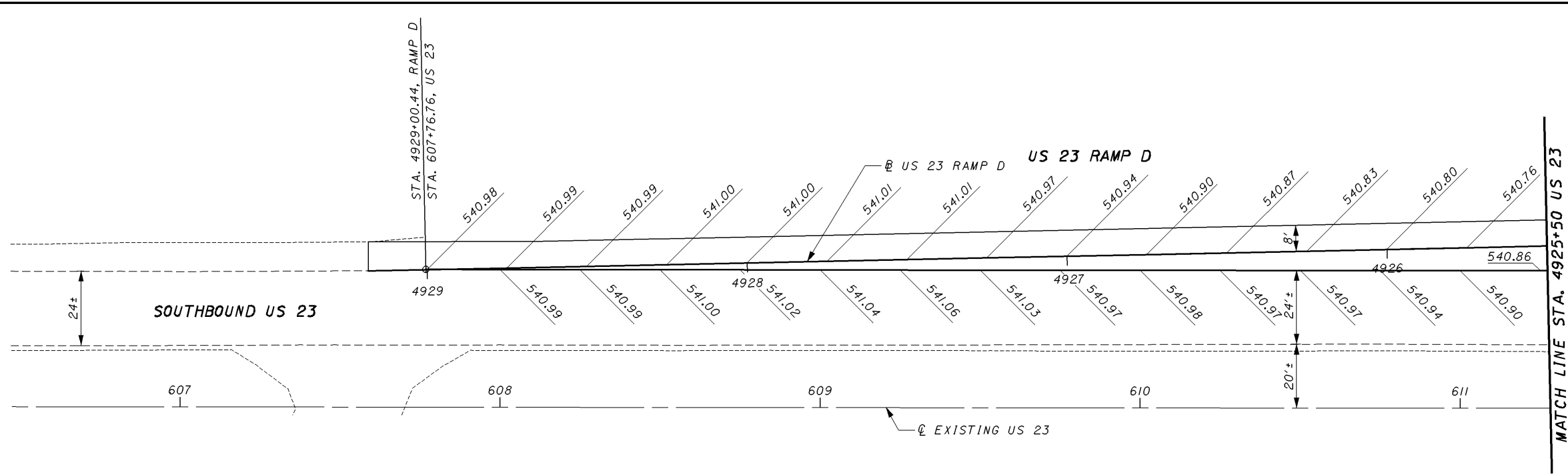
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693

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NOTES:

1. ELEVATIONS ARE SHOWN EVERY 25 FEET UNLESS OTHERWISE NOTED.

US 23 INTERCHANGE RAMP D PAVEMENT ELEVATIONS
SPEED CHANGE LANE AT US 23

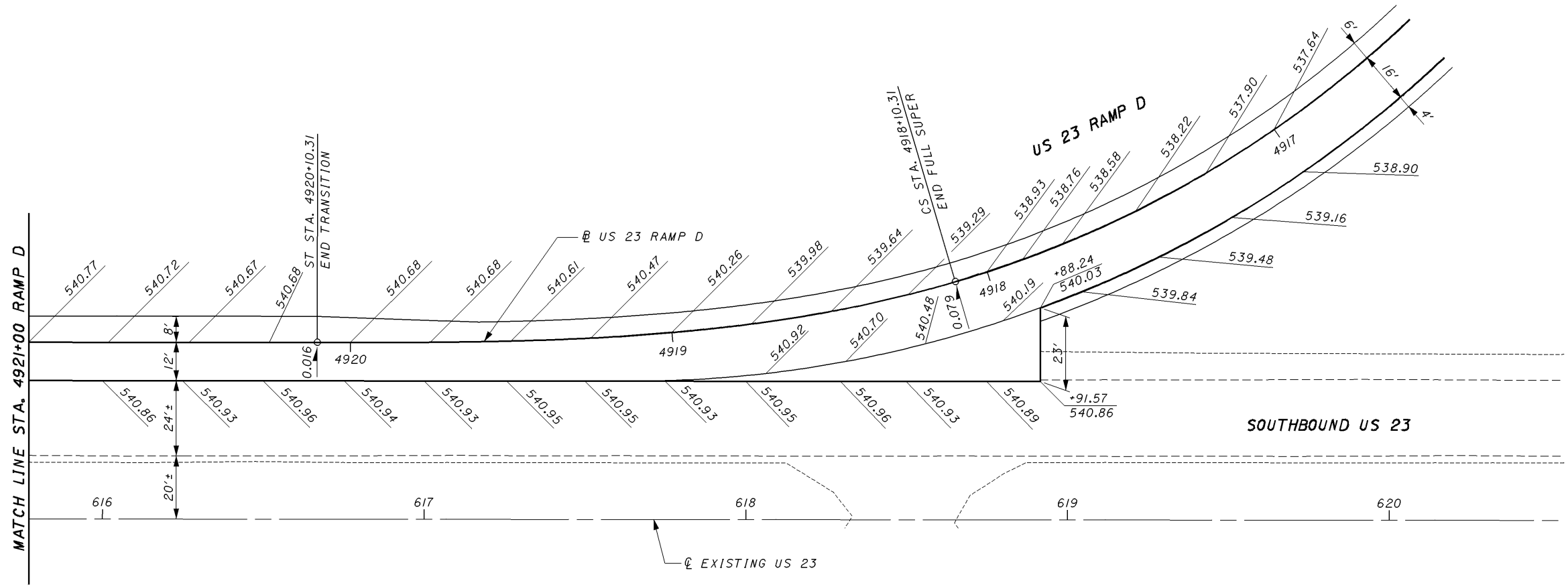
SCI-823-10.13

694

CALCULATED
ADW
CHECKED
MME



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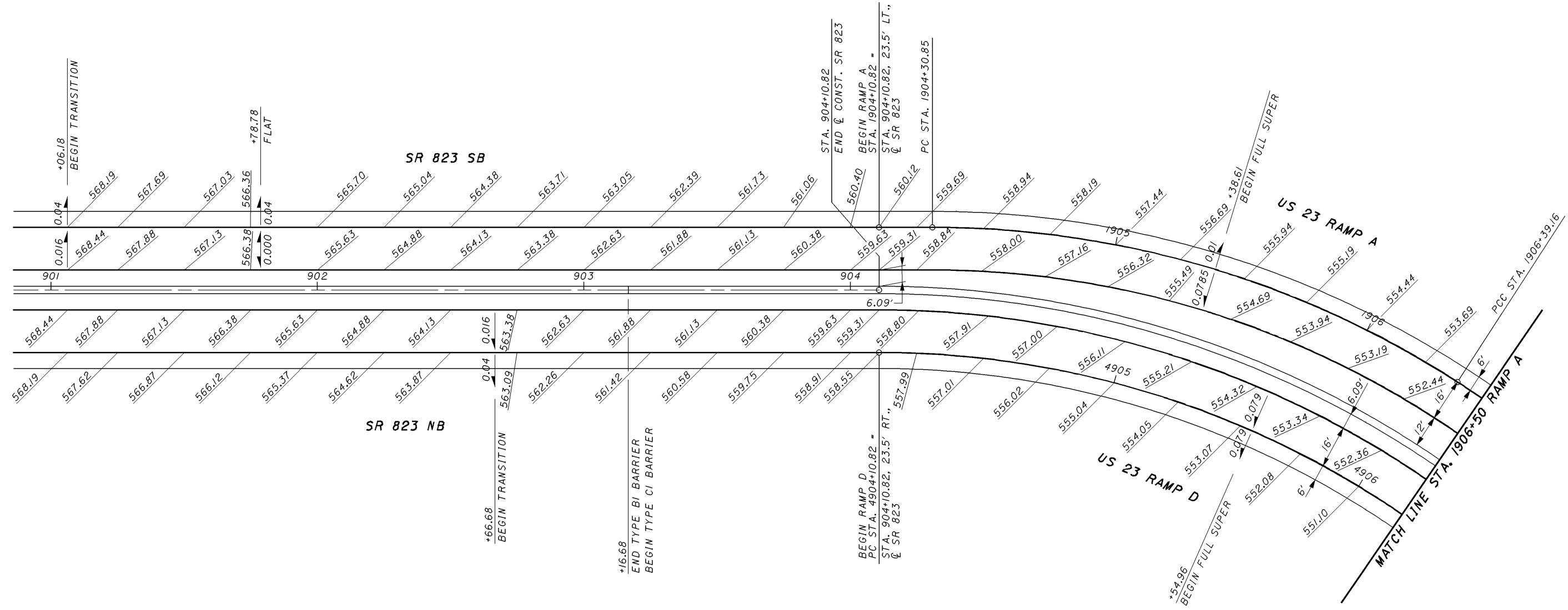
CALCULATED
ADW
CHECKED
MME

**US 23 INTERCHANGE RAMP D PAVEMENT ELEVATIONS
SPEED CHANGE LANE AT US 23**

SCI-823-10.13

695

NOTES:
1. ELEVATIONS ARE SHOWN EVERY 25 FEET UNLESS OTHERWISE NOTED.



NOTES:

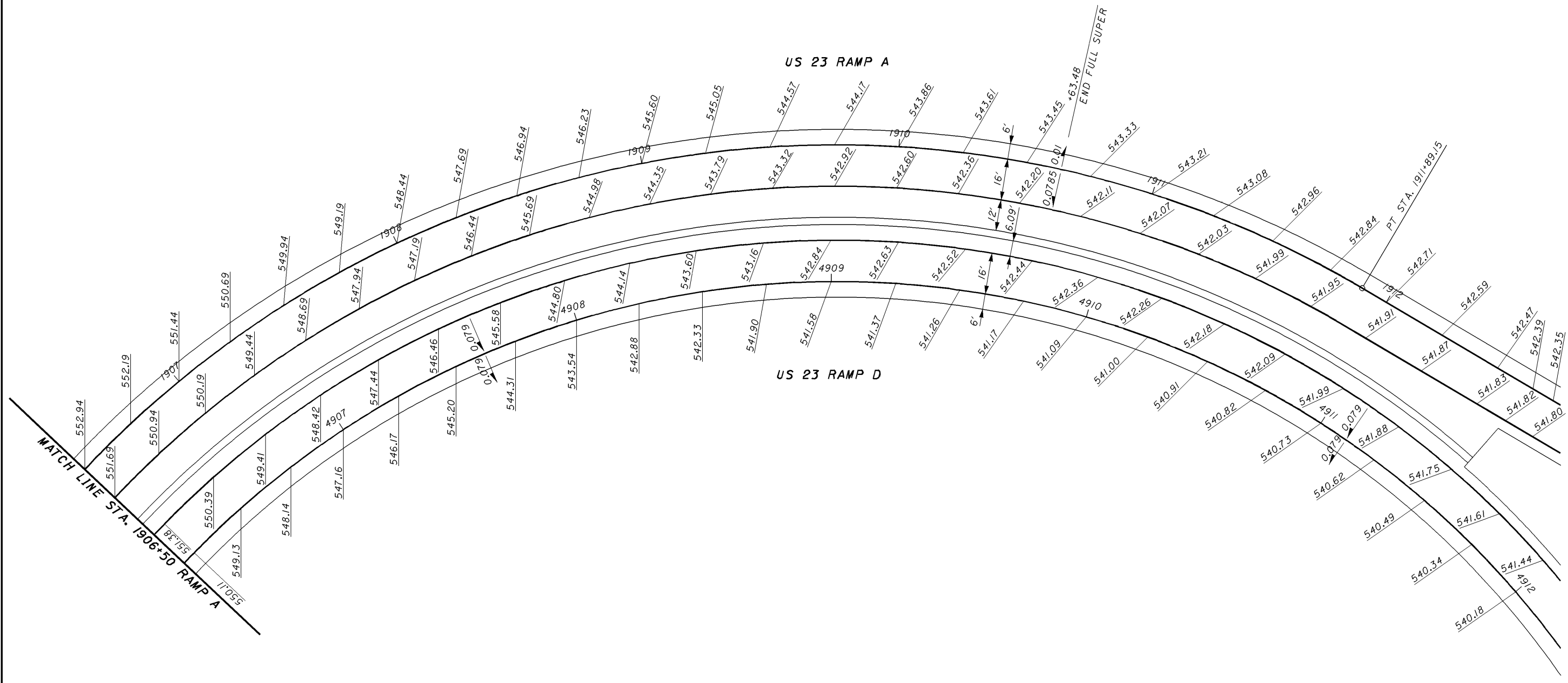
1. ELEVATIONS ARE SHOWN EVERY 25 FEET UNLESS OTHERWISE NOTED.

CALCULATED
ADW
CHECKED
MME

0 10 20 40
HORIZONTAL
SCALE IN FEET

**US 23 INTERCHANGE PAVEMENT ELEVATIONS
SR 823 TO RAMP A AND RAMP D TRANSITION**

SCI-823-10.13



NOTES:

1. ELEVATIONS ARE SHOWN EVERY 25 FEET UNLESS OTHERWISE NOTED.



CALCULATED
ADW
CHECKED
MME

**US 23 INTERCHANGE PAVEMENT ELEVATIONS
SR 823 TO RAMP A AND RAMP D TRANSITION**

SCI-823-10.13

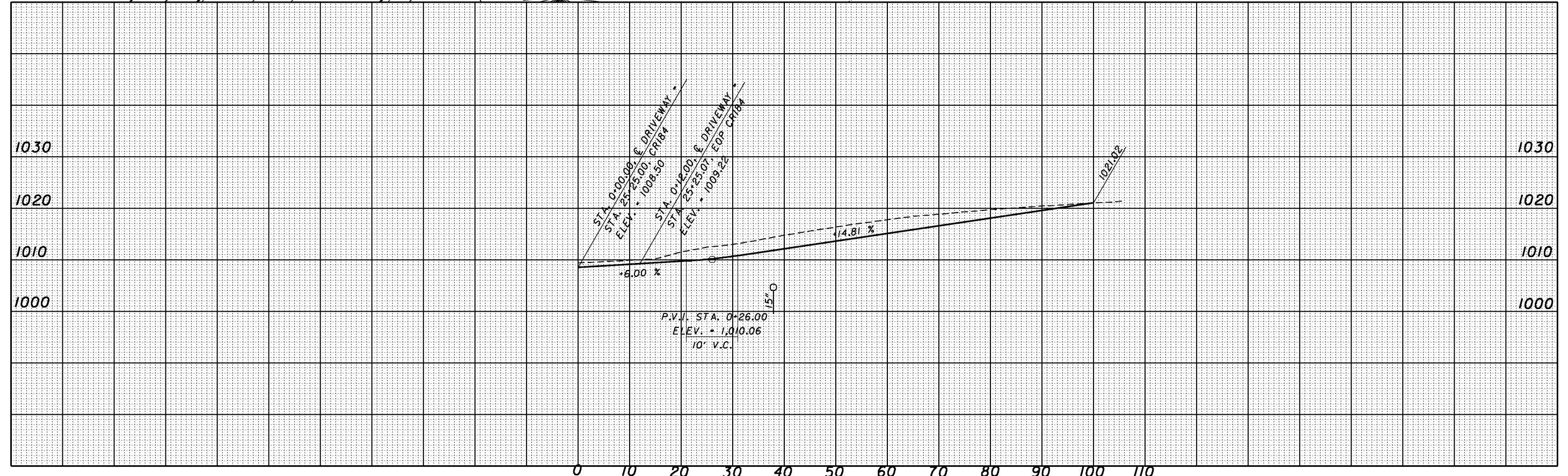
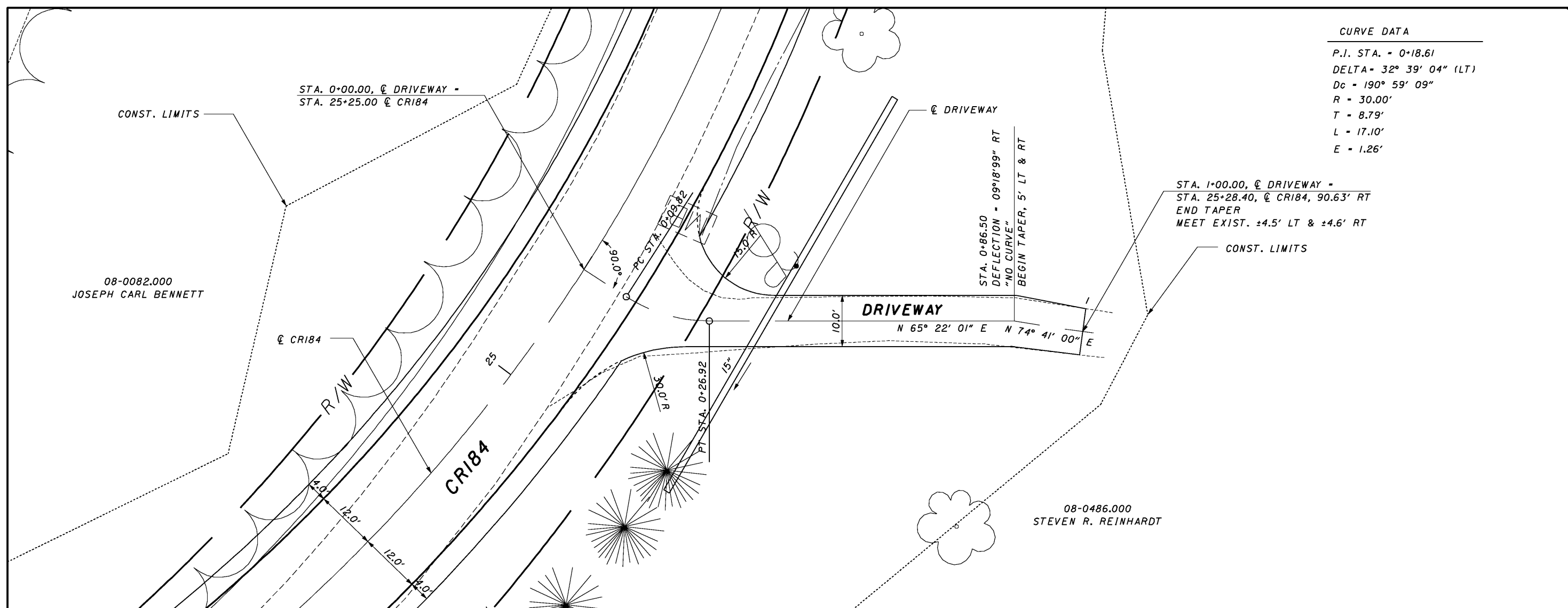
CURVE DATA
 P.I. STA. = 0+18.61
 DELTA = 32° 39' 04" (LT)
 Dc = 190° 59' 09"
 R = 30.00'
 T = 8.79'
 L = 17.10'
 E = 1.26'



DRIVEWAY AT STA. 25+25.00 CR184

SCI-823-10.13

698



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CURVE # CHAN 4-1
 P.I. Sta = 7+88.69
 D = 38° 14' 05" (RT)
 Dc = 190° 59' 09"
 R = 30.00'
 T = 10.40'
 L = 20.02'
 E = 1.75'

CURVE # CHAN 1-1 P.I. Sta = 10+56.45 D = 25° 42' 43" (LT) Dc = 286° 28' 44" R = 20.00' T = 4.56' L = 8.98' E = 0.51'	CURVE # CHAN 1-2 P.I. Sta = 11+67.98 D = 56° 28' 38" (RT) Dc = 286° 28' 44" R = 20.00' T = 11.20' L = 20.41' E = 2.92'	CURVE # CHAN 1-3 P.I. Sta = 13+17.37 D = 90° 15' 02" (LT) Dc = 572° 57' 28" R = 10.00' T = 10.04' L = 15.75' E = 4.17'	CURVE # CHAN 1-4 P.I. Sta = 17+28.97 D = 86° 39' 17" (RT) Dc = 286° 28' 44" R = 20.00' T = 18.87' L = 30.25' E = 7.49'	CURVE # CHAN 1-5 P.I. Sta = 20+77.16 D = 40° 28' 18" (RT) Dc = 22° 55' 06" R = 250.00' T = 92.16' L = 176.59' E = 16.45'
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**DRAINAGE SCHEMATIC PLAN
 SR 823 AND US 23 INTERCHANGE**

SCI-823-10.13

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CURVE # CHAN 3-1
 P.I. Sta = 8+45.07
 D = 33° 39' 32" (RT)
 Dc = 57° 17' 45"
 R = 100.00'
 T = 30.25'
 L = 58.75'
 E = 4.47'

CURVE # CHAN 3-2
 P.I. Sta = 9+13.65
 D = 77° 25' 45" (LT)
 Dc = 114° 35' 30"
 R = 50.00'
 T = 40.08'
 L = 67.57'
 E = 14.08'

CURVE # CHAN 3-3
 P.I. Sta = 10+60.95
 D = 13° 07' 28" (RT)
 Dc = 71° 37' 11"
 R = 80.00'
 T = 9.20'
 L = 18.33'
 E = 0.53'

CURVE # CHAN 3-4
 P.I. Sta = 11+55.43
 D = 17° 32' 30" (LT)
 Dc = 57° 17' 45"
 R = 100.00'
 T = 15.43'
 L = 30.62'
 E = 1.18'

CURVE # CHAN 3-5
 P.I. Sta = 12+35.27
 D = 28° 30' 12" (LT)
 Dc = 57° 17' 45"
 R = 100.00'
 T = 25.40'
 L = 49.75'
 E = 3.18'

CURVE # CHAN 3-6
 P.I. Sta = 13+30.32
 D = 11° 46' 42" (LT)
 Dc = 57° 17' 45"
 R = 100.00'
 T = 10.31'
 L = 20.56'
 E = 0.53'

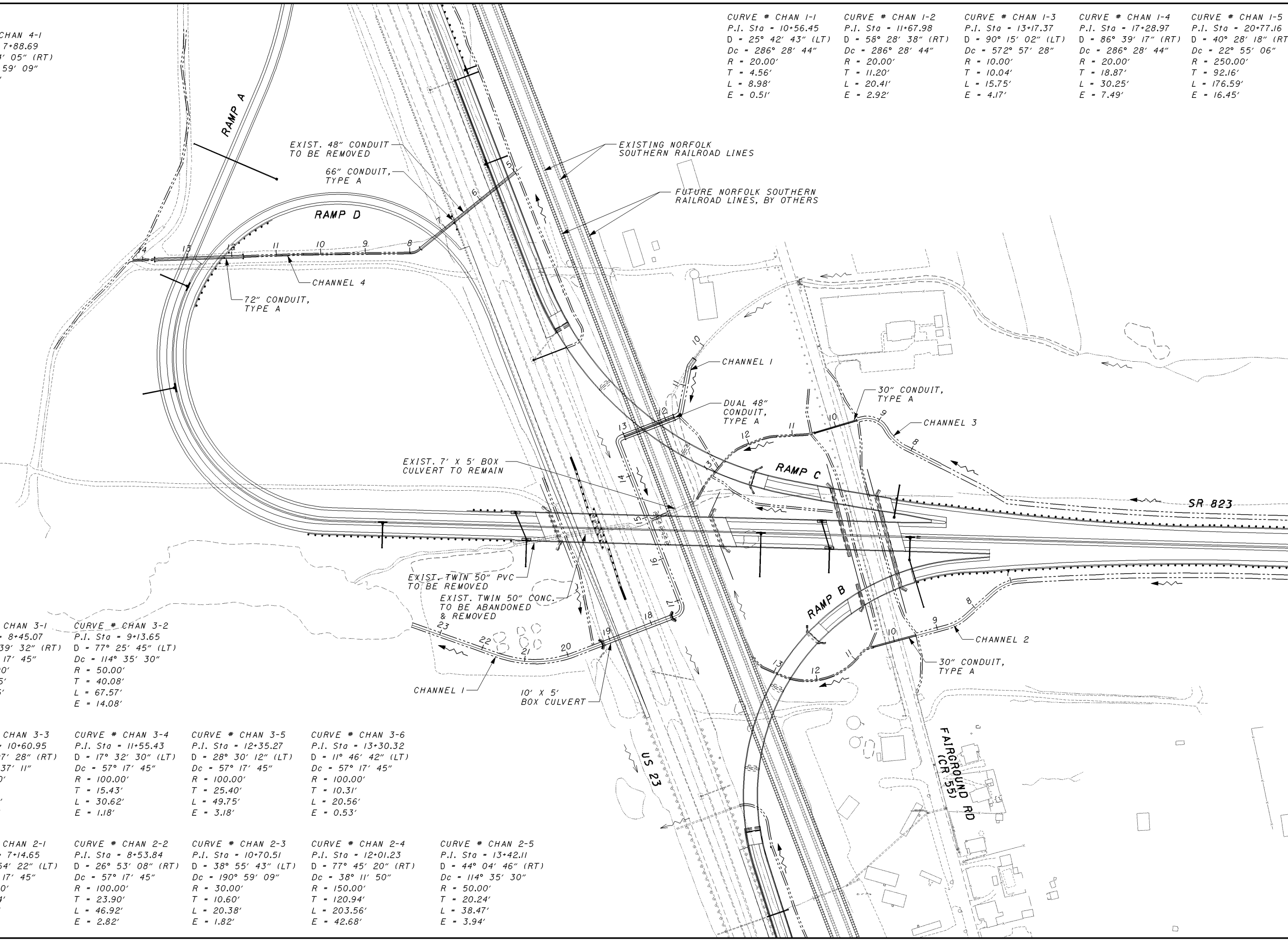
CURVE # CHAN 2-1
 P.I. Sta = 7+14.65
 D = 37° 54' 22" (LT)
 Dc = 57° 17' 45"
 R = 100.00'
 T = 34.34'
 L = 66.16'
 E = 5.73'

CURVE # CHAN 2-2
 P.I. Sta = 8+53.84
 D = 26° 53' 08" (RT)
 Dc = 57° 17' 45"
 R = 100.00'
 T = 23.90'
 L = 46.92'
 E = 2.82'

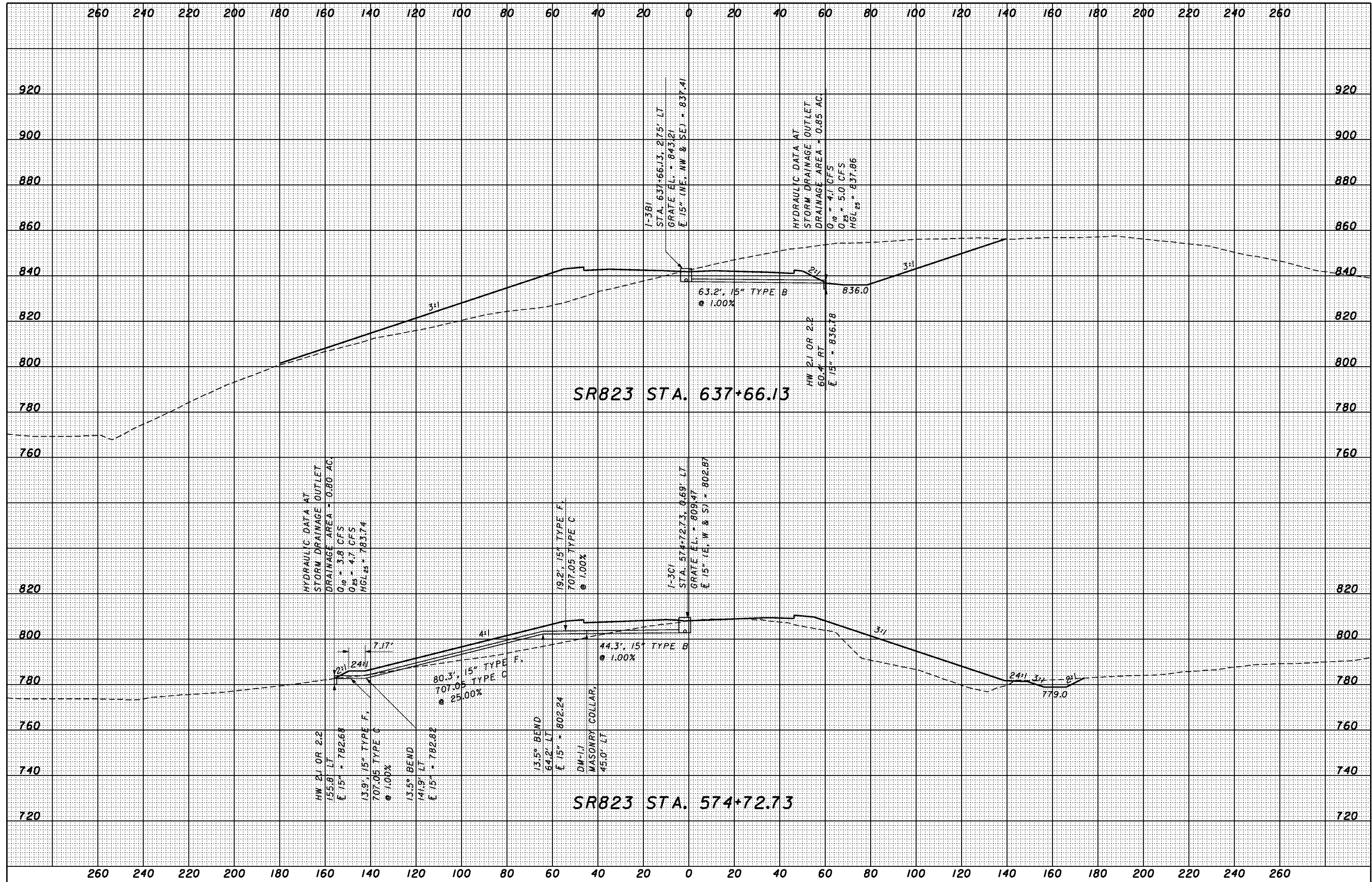
CURVE # CHAN 2-3
 P.I. Sta = 10+70.51
 D = 38° 55' 43" (LT)
 Dc = 190° 59' 09"
 R = 30.00'
 T = 10.60'
 L = 20.38'
 E = 1.82'

CURVE # CHAN 2-4
 P.I. Sta = 12+01.23
 D = 77° 45' 20" (RT)
 Dc = 38° 11' 50"
 R = 150.00'
 T = 120.94'
 L = 203.56'
 E = 42.68'

CURVE # CHAN 2-5
 P.I. Sta = 13+42.11
 D = 44° 04' 46" (RT)
 Dc = 114° 35' 30"
 R = 50.00'
 T = 20.24'
 L = 38.47'
 E = 3.94'



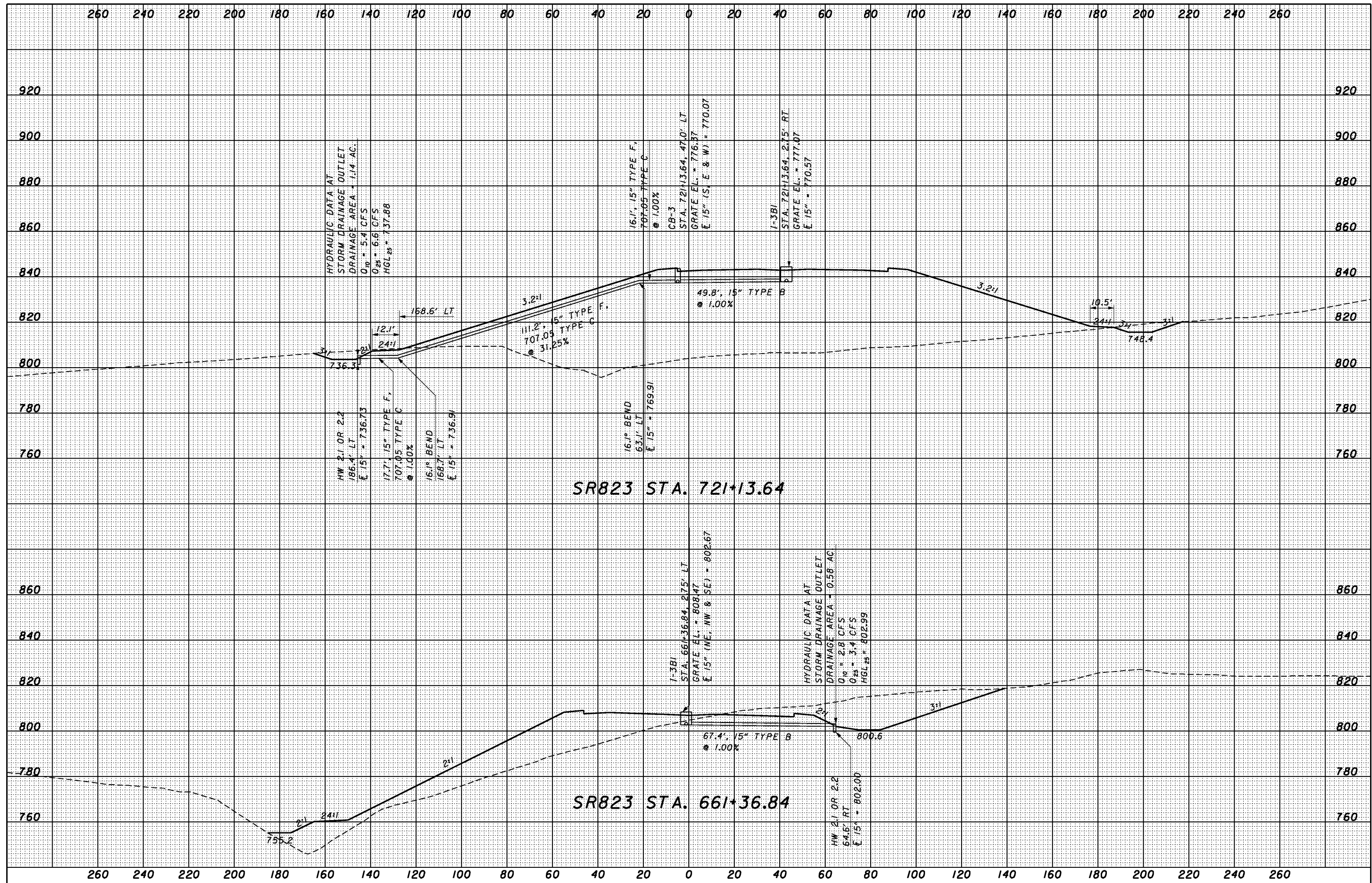
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CALCULATED
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CHECKED
RW

DRAINAGE PROFILES

SCI-823-10.13

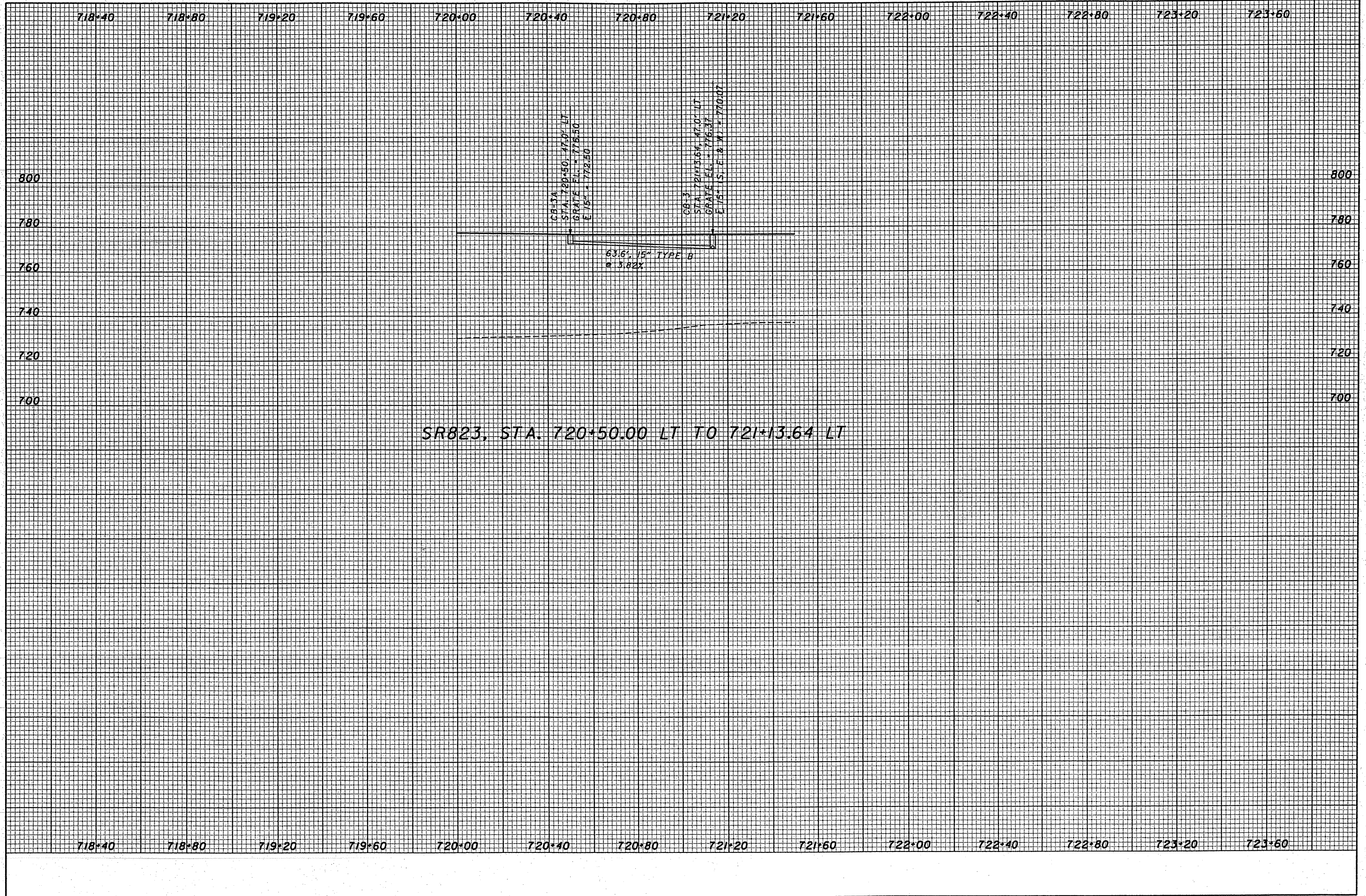


CALCULATED
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DRAINAGE PROFILES

SCI-823-10.13

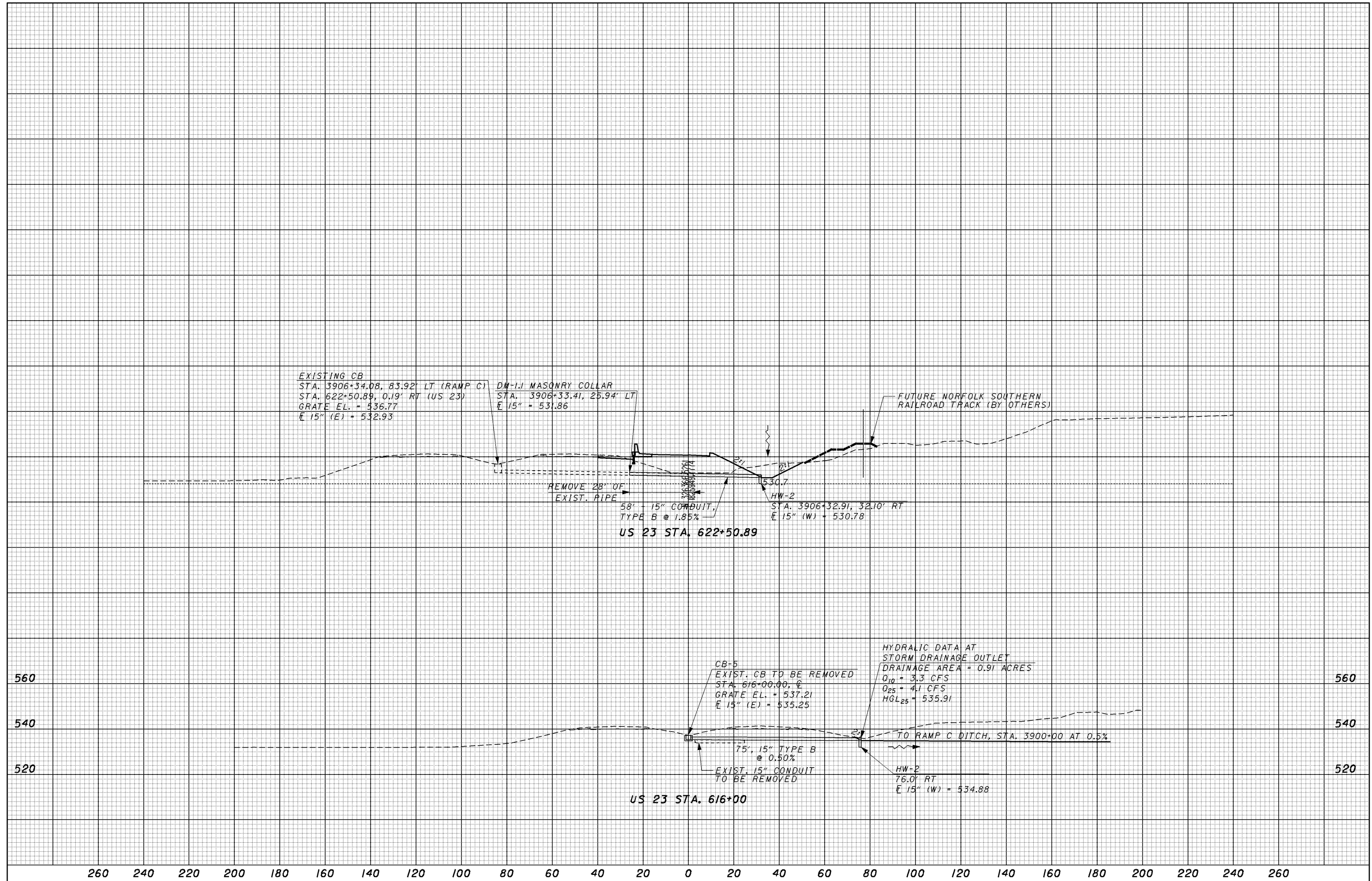
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DL
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DRAINAGE PROFILES

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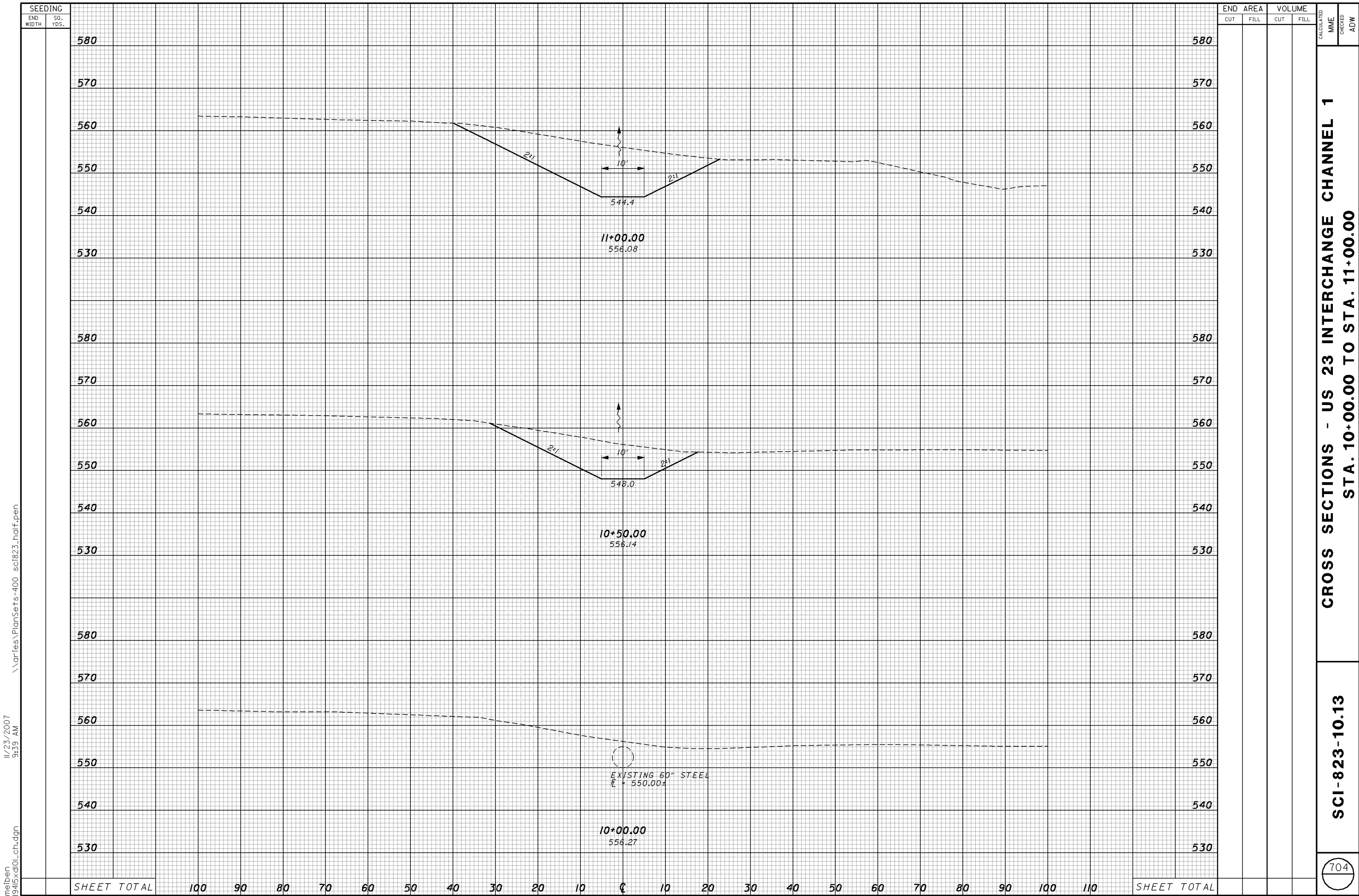


CALCULATED
CTS

CHECKED
ADW

DRAINAGE PROFILES
US 23 STA. 616+00 AND US 23 STA. 622+50.89

SCI-823-10.13



SEEDING

END WIDTH	SO. YDS.
580	
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END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MME	ADW

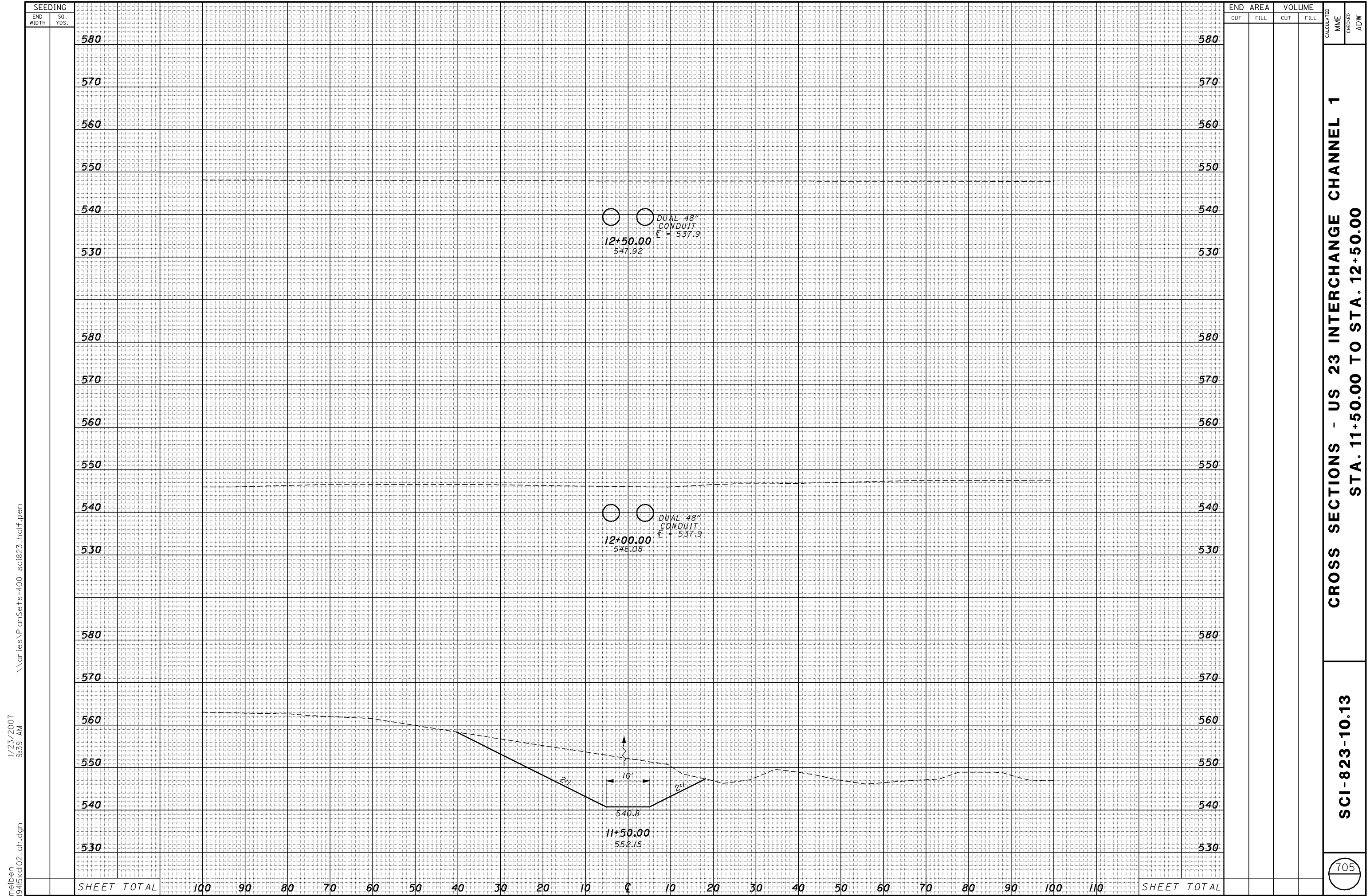
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STA. 10+00.00 TO STA. 11+00.00

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704

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SHEET TOTAL	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100	110	SHEET TOTAL
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SEEDING

END WIDTH	SO. YDS.
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530	

END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		

CROSS SECTIONS - US 23 INTERCHANGE CHANNEL 1
STA. 11+50.00 TO STA. 12+50.00

SCI-823-10.13

705

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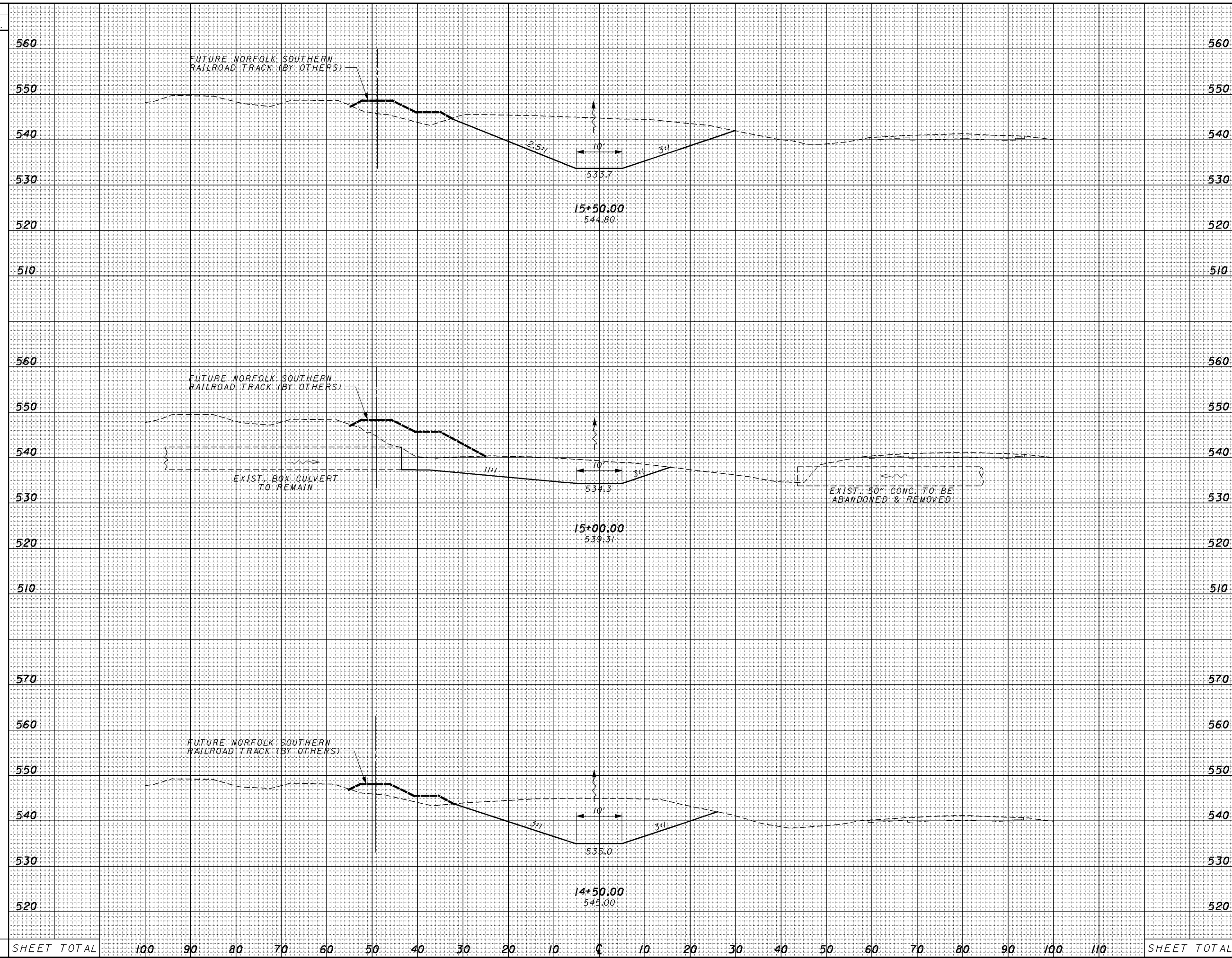
SHEET TOTAL

100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

SHEET TOTAL

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SEEDING
END WIDTH SQ. YDS.



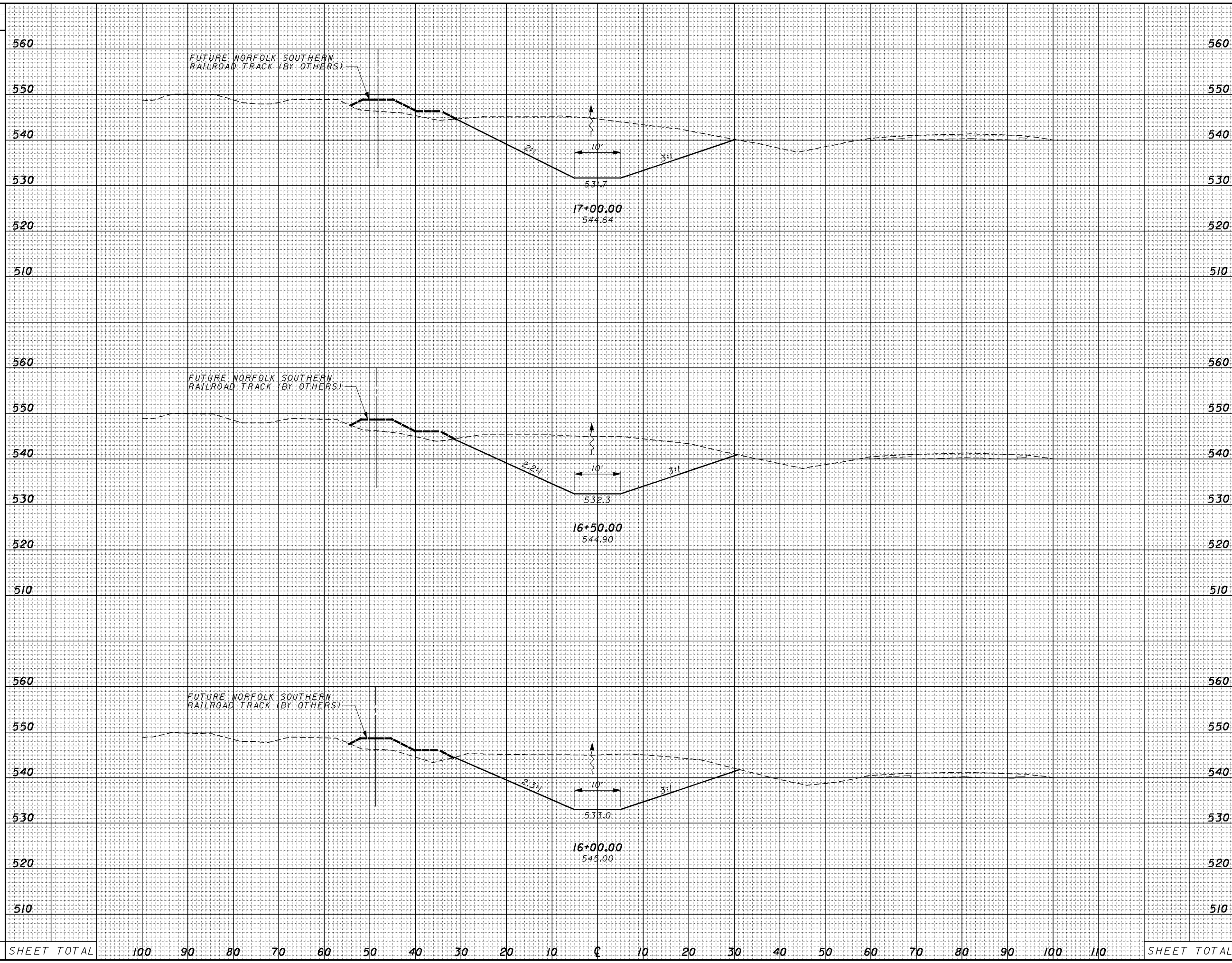
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		CUT	FILL
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510			
570			
560			
550			
540			
530			
520			
SHEET TOTAL			

CROSS SECTIONS - US 23 INTERCHANGE CHANNEL 1
STA. 14+50.00 TO STA. 15+50.00

SCIENCE 823-10.13

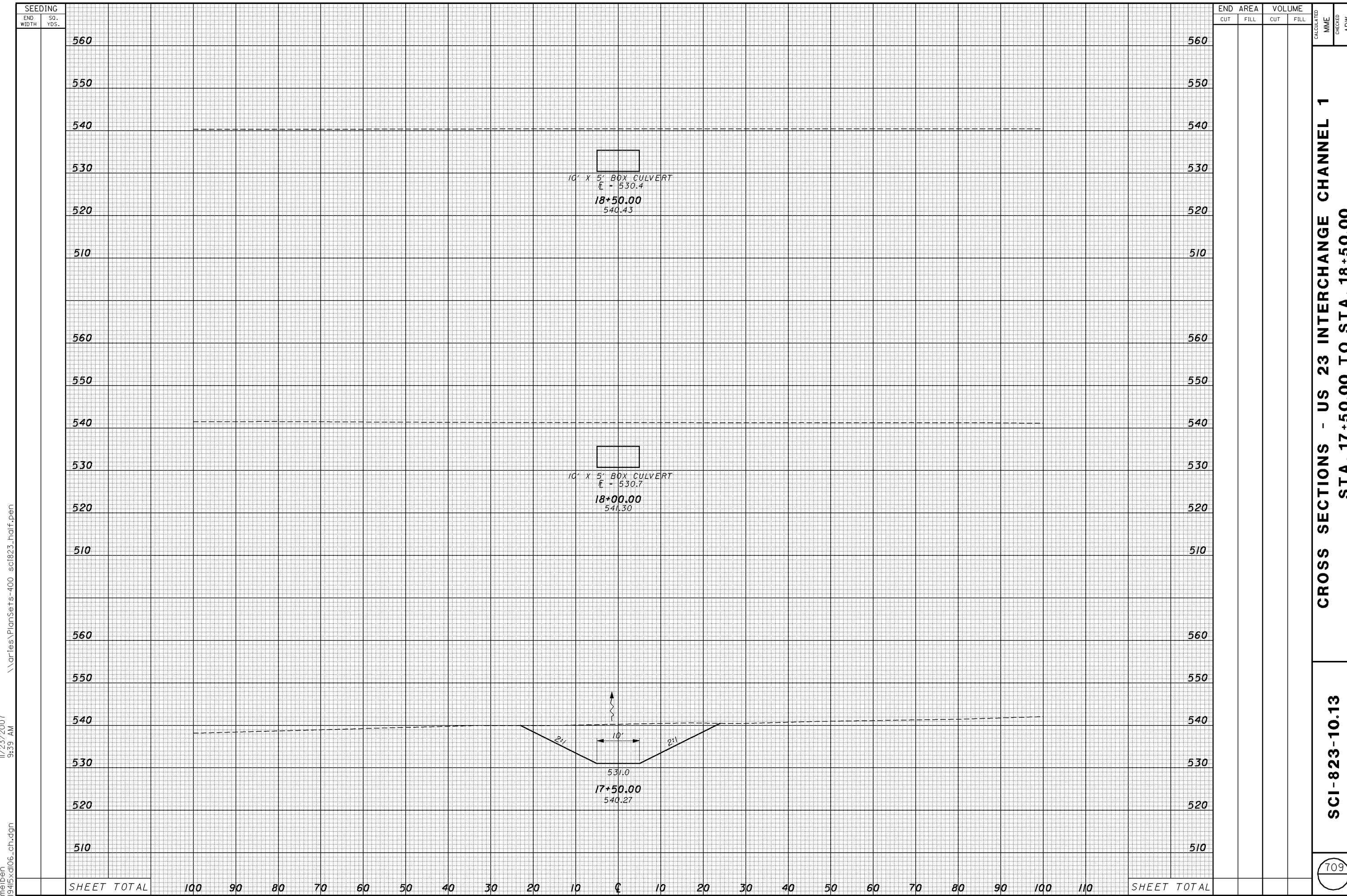
707

SEEDING
END WIDTH SQ. YDS.
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END	AREA		VOLUME		CALCULATED MME	CHECKED ADW																	
	CUT	FILL	CUT	FILL																			
560																							
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SHEET TOTAL	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100	110	SHEET TOTAL

CROSS SECTIONS - US 23 INTERCHANGE CHANNEL 1
STA. 16+00.00 TO STA. 17+00.00
SCI-823-10.13



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CROSS SECTIONS - US 23 INTERCHANGE CHANNEL 1
STA. 17+50.00 TO STA. 18+50.00

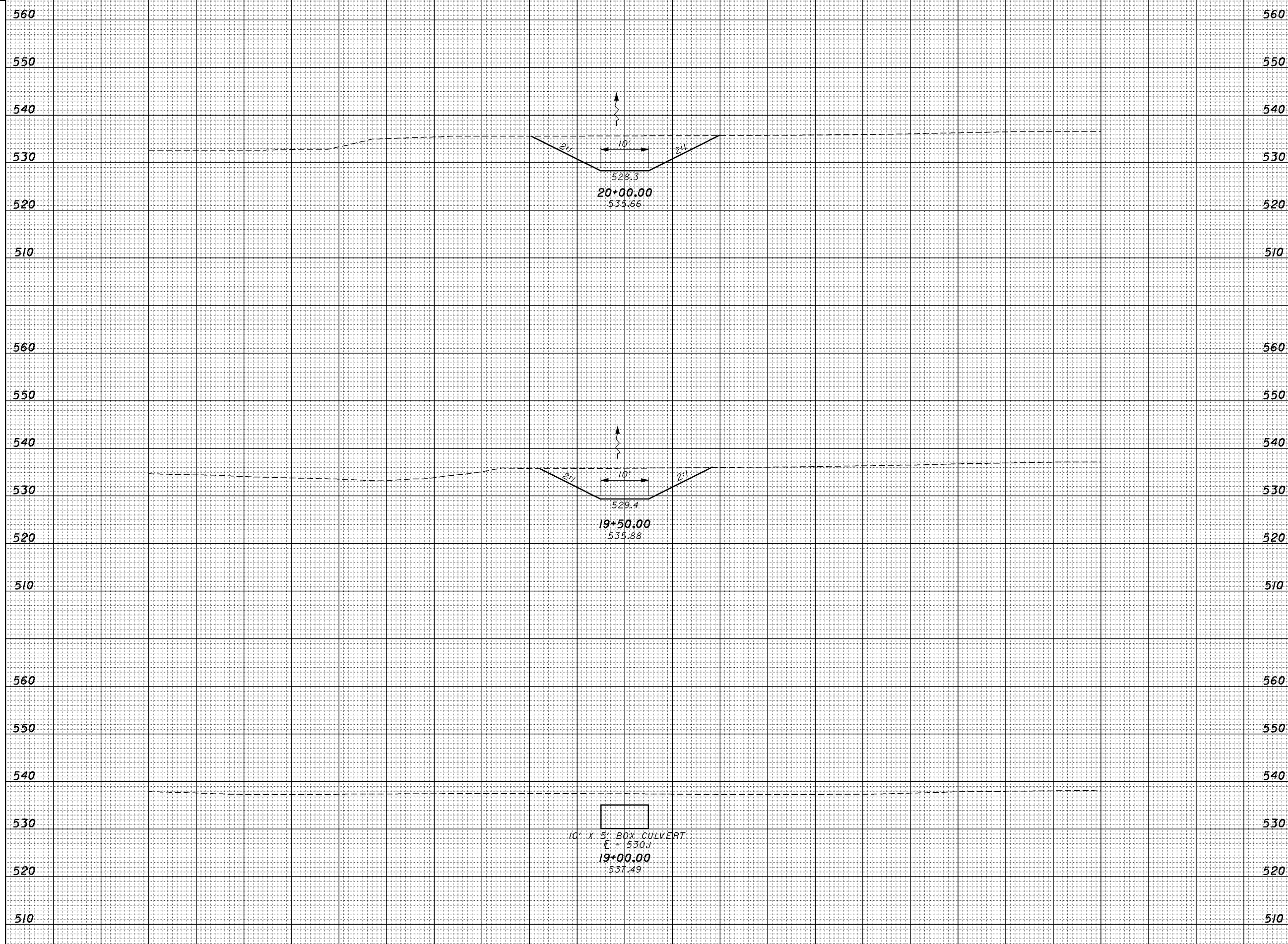
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SEEDING

END WIDTH	SO. YDS.
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END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MME	ADW



SHEET TOTAL	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100	110	SHEET TOTAL
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CROSS SECTIONS - US 23 INTERCHANGE CHANNEL 1
STA. 19+00.00 TO STA. 20+00.00

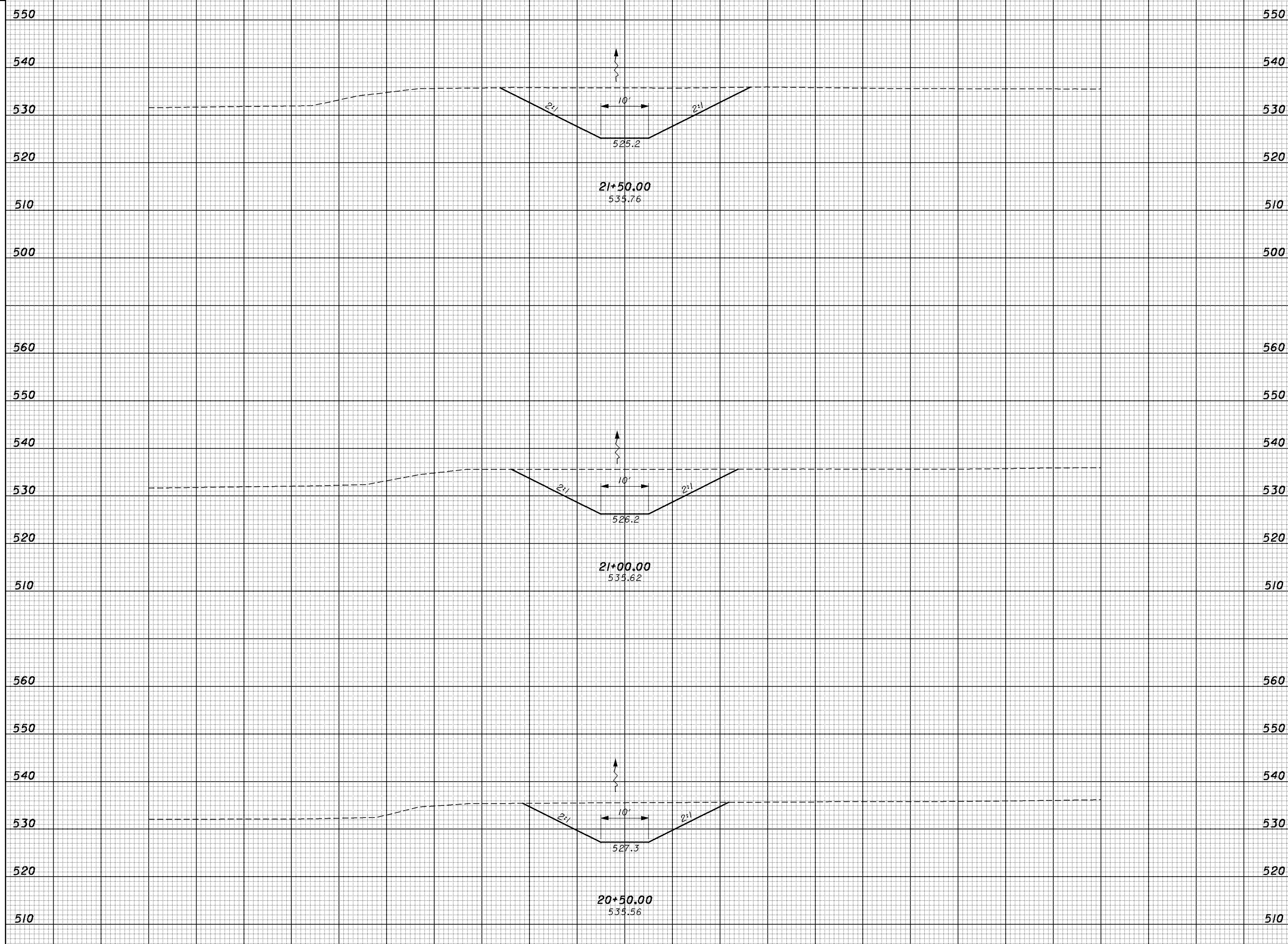
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710

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SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW

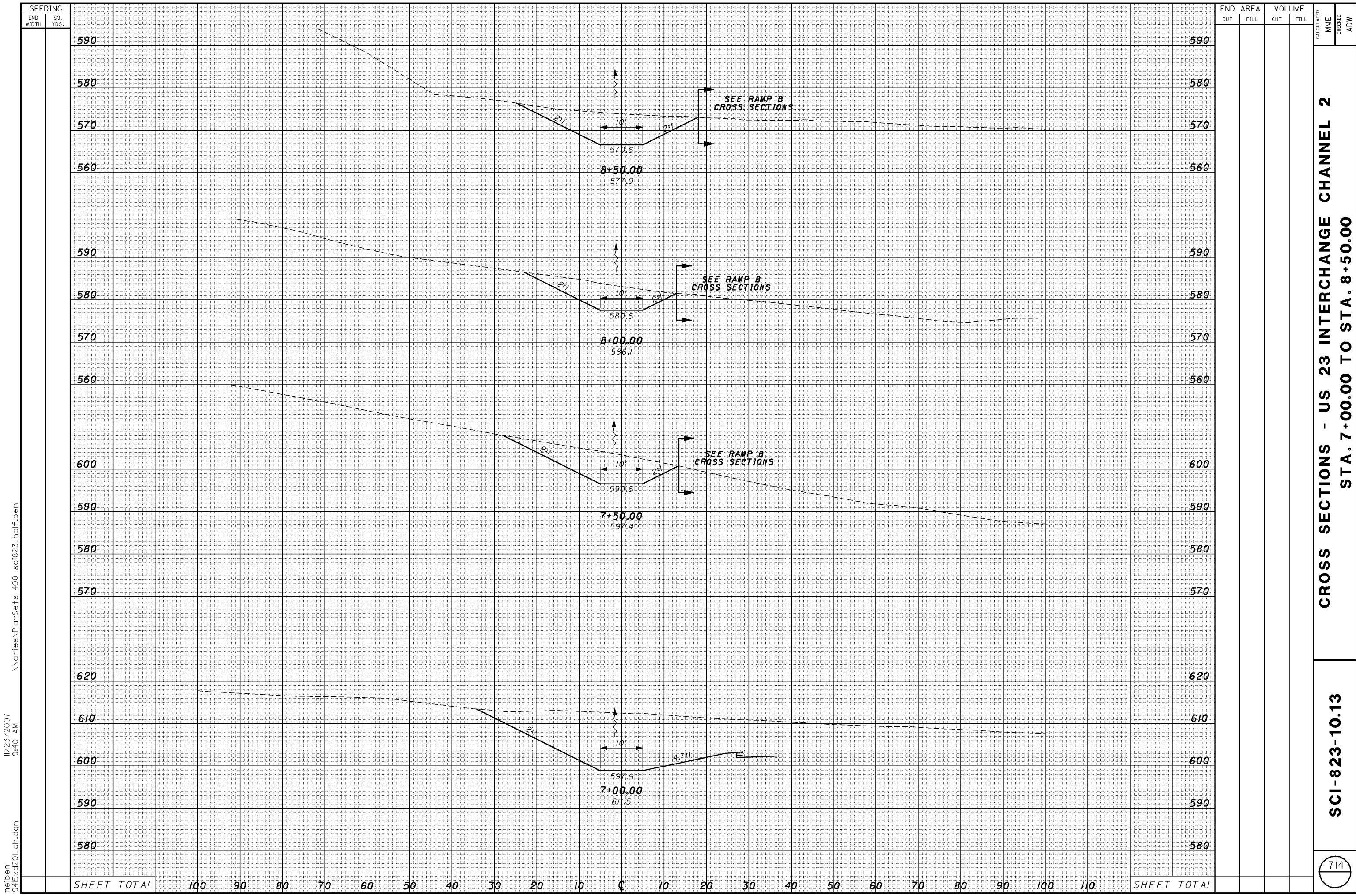


SEEDING	END WIDTH	SQ. YDS.	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100	110	SHEET TOTAL	
550																									550	
540																										540
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520																										520
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SHEET TOTAL			100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100	110	SHEET TOTAL	

CROSS SECTIONS - US 23 INTERCHANGE CHANNEL 1
STA. 20+50.00 TO STA. 21+50.00

SCI-823-10.13

711



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SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL

CROSS SECTIONS - US 23 INTERCHANGE CHANNEL 2
STA. 7+00.00 TO STA. 8+50.00

SCI-823-10.13

SEEDING

END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
MME
CHECKED
ADW

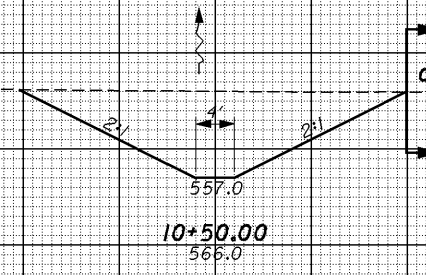
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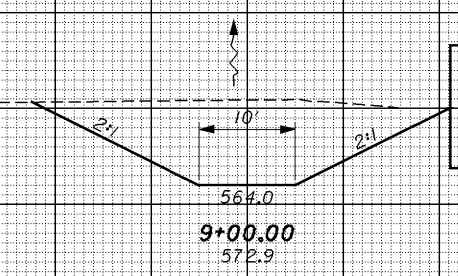
580
570
560
550

580
570
560
550



30" CONDUIT
E = 558.5

30" CONDUIT
E = 560.0
9+50.00
568.5



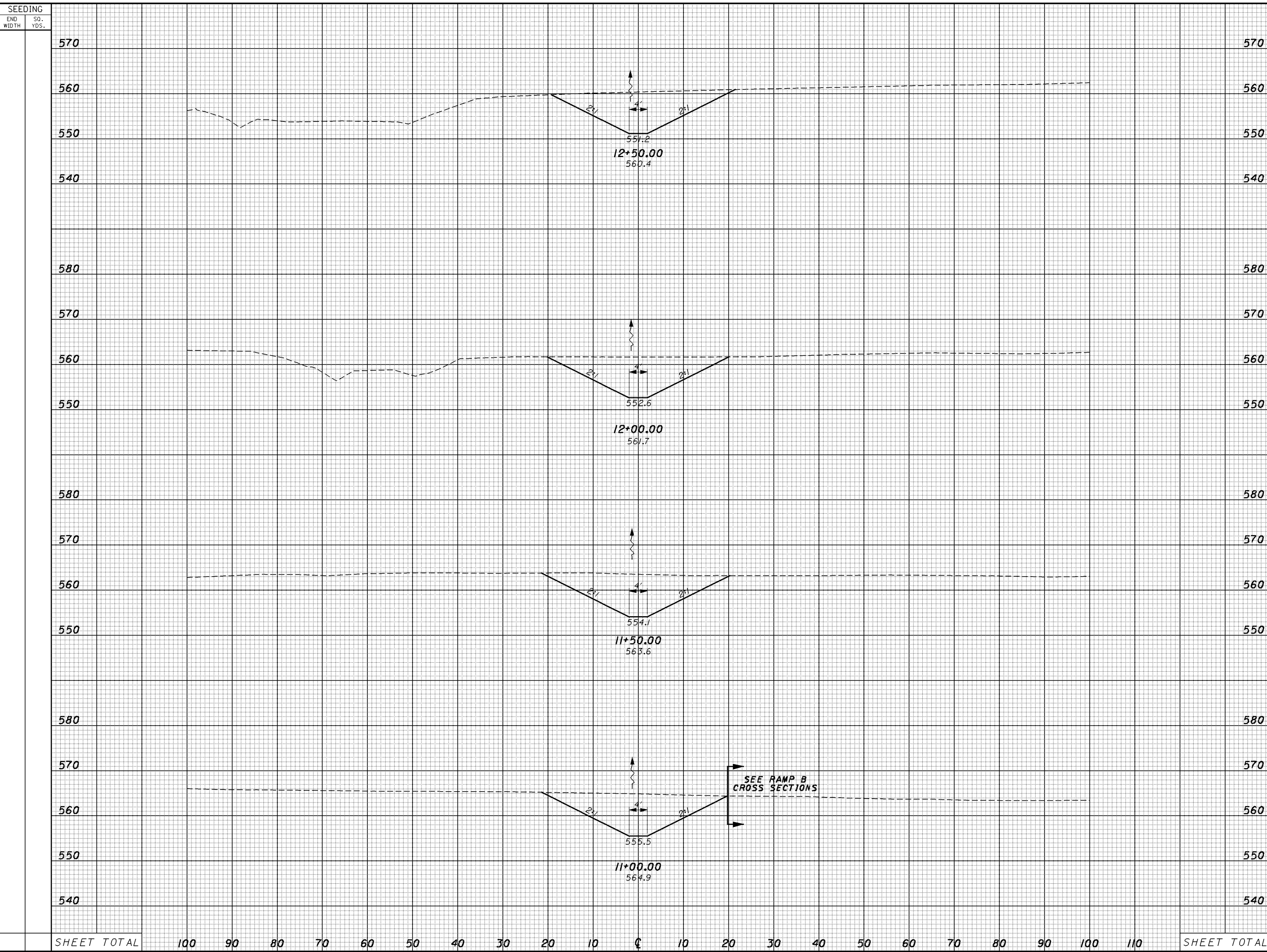
SHEET TOTAL 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 SHEET TOTAL

CROSS SECTIONS - US 23 INTERCHANGE CHANNEL 2
STA. 9+00.00 TO STA. 10+50.00

SCI-823-10.13

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CROSS SECTIONS - US 23 INTERCHANGE CHANNEL 2
STA. 11+00.00 TO STA. 12+50.00

SCI-823-10.13

716

CALCULATED
MME
CHECKED
ADW

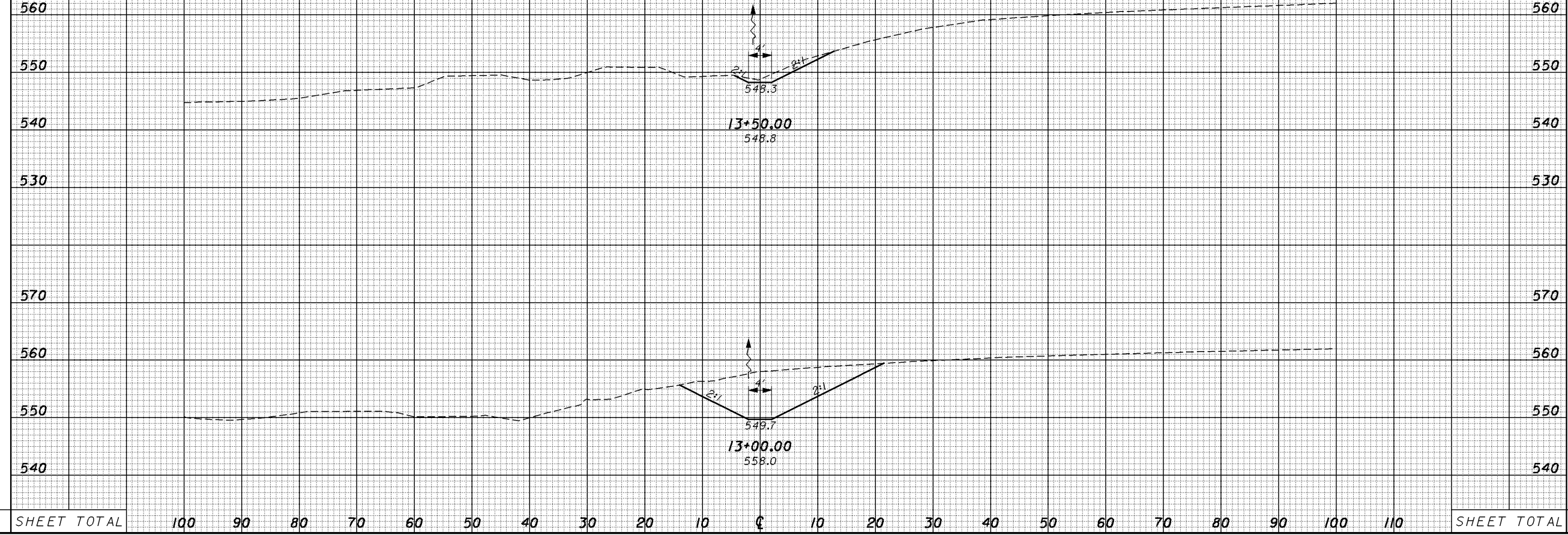
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SEEDING

END WIDTH	SO. YDS.

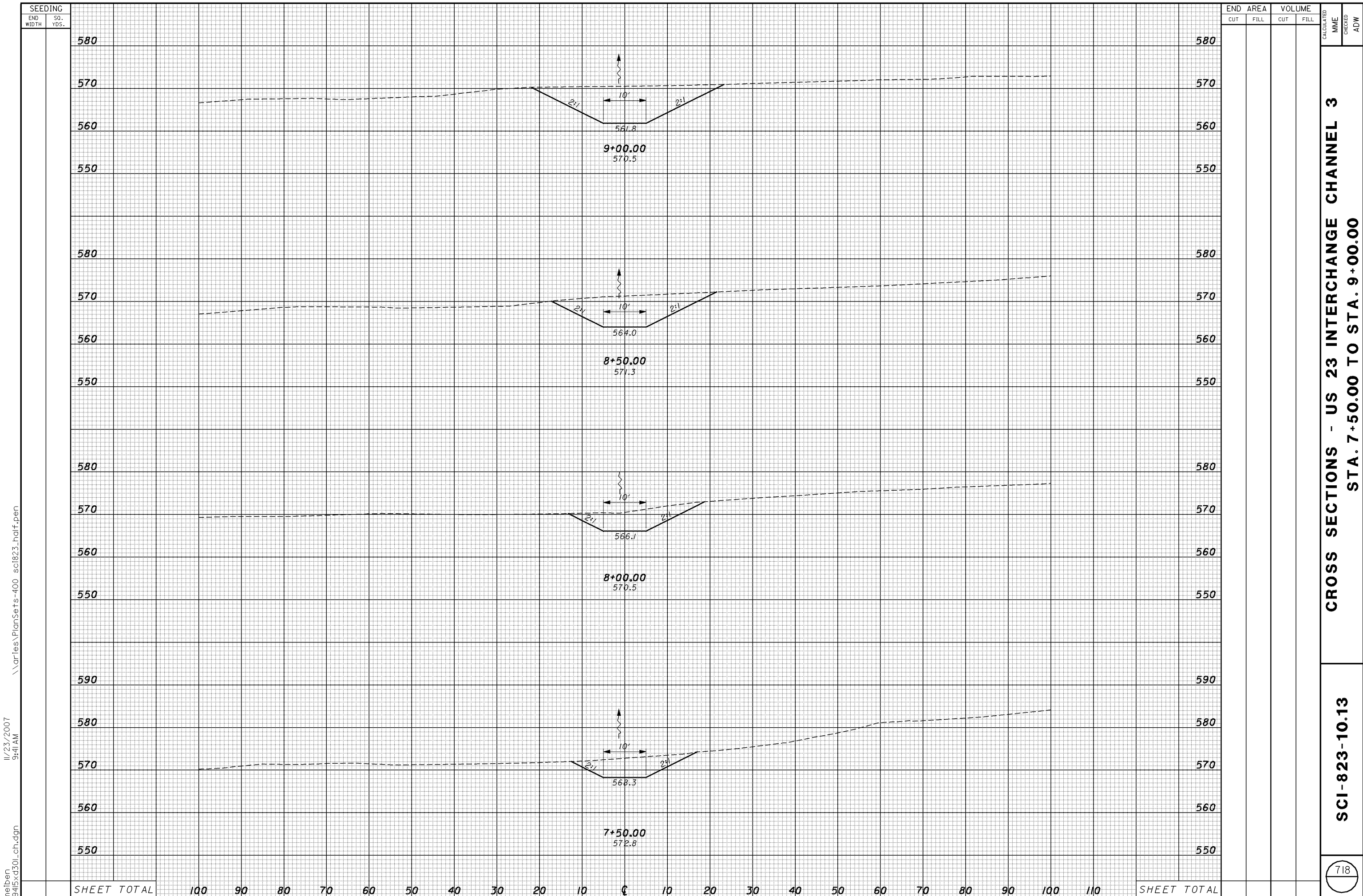


SHEET TOTAL

100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

SHEET TOTAL

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	MME	ADW
CROSS SECTIONS - US 23 INTERCHANGE CHANNEL 2					
STA. 13+00.00 TO STA. 13+50.00					
SCI-823-10.13					
717					



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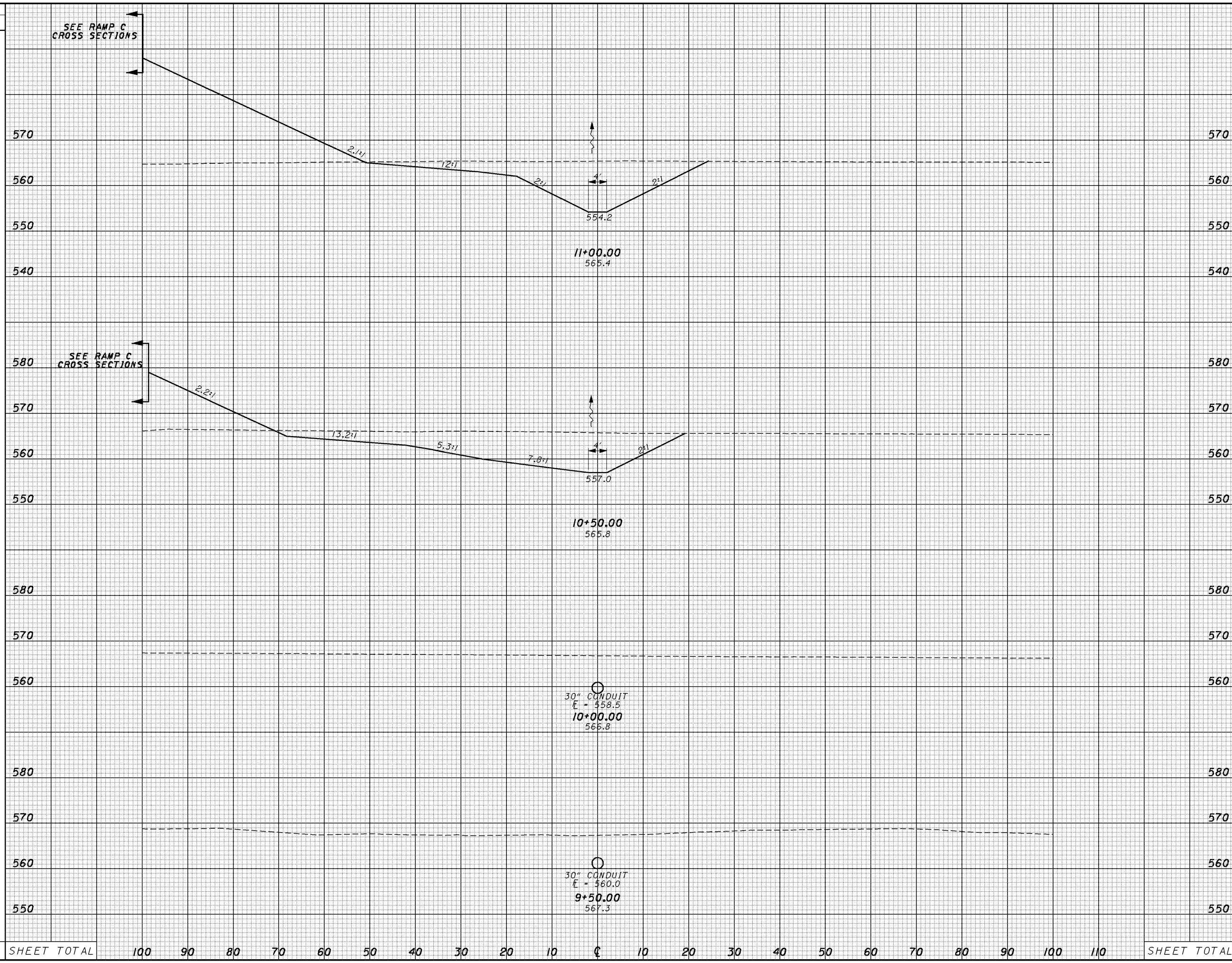
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SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



SEE RAMP C CROSS SECTIONS

SEE RAMP C CROSS SECTIONS

30" CONDUIT
E = 558.5
10+00.00
566.8

30" CONDUIT
E = 560.0
9+50.00
567.3

SHEET TOTAL	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100	110	SHEET TOTAL
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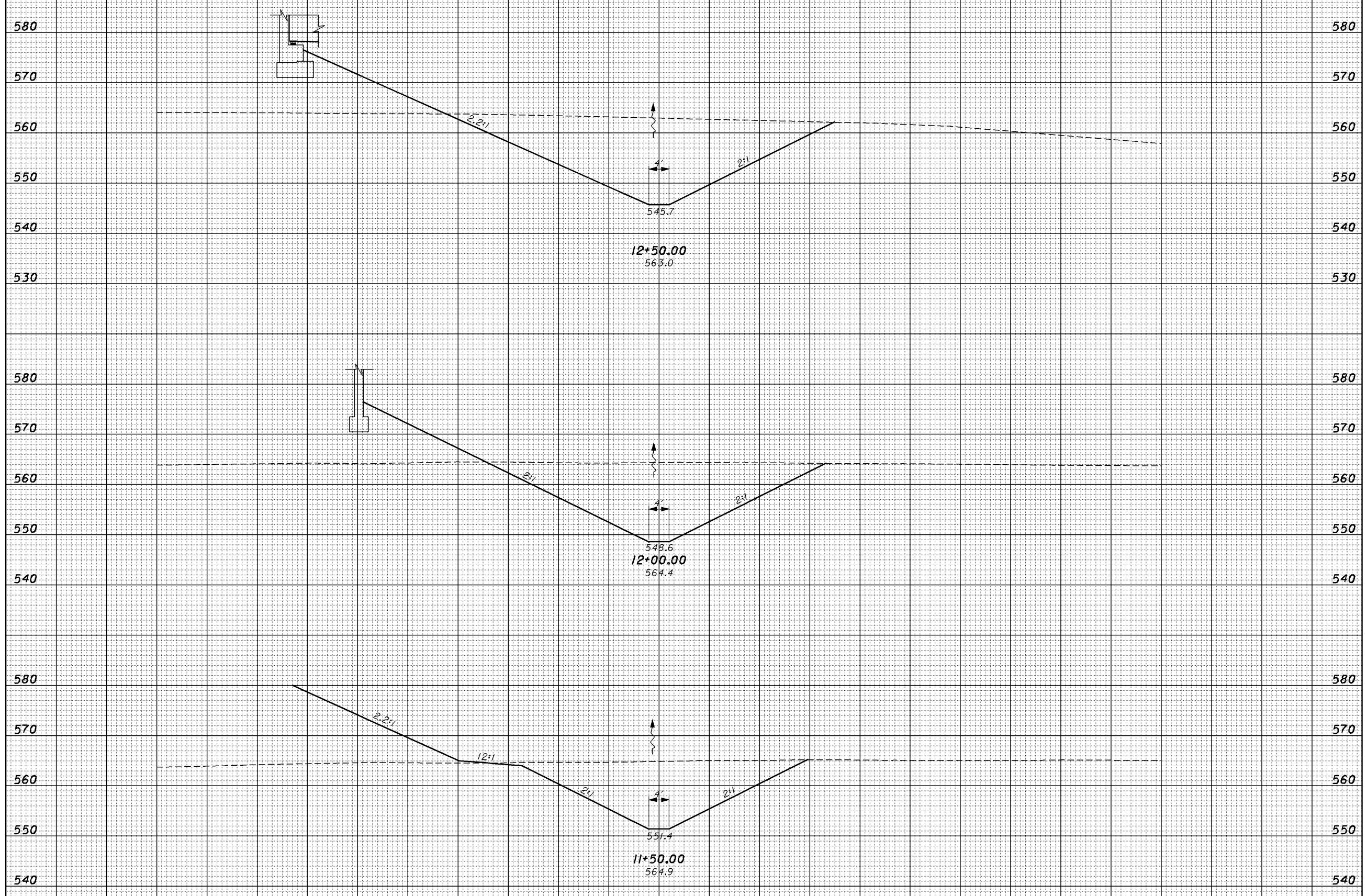
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STA. 9+50.00 TO STA. 11+00.00

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SEEDING
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END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MME	ADW



SHEET TOTAL	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100	110	SHEET TOTAL
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CROSS SECTIONS - US 23 INTERCHANGE CHANNEL 3
 STA. 11+50.00 TO STA. 12+50.00

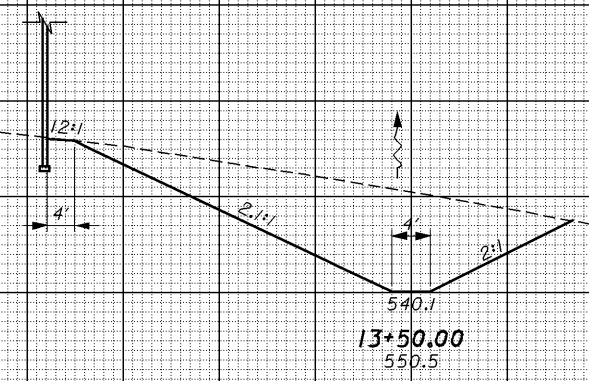
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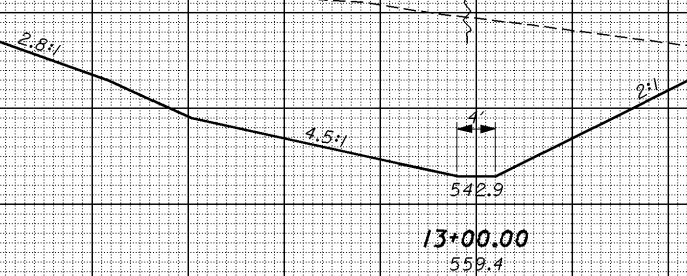
SEEDING

END WIDTH	SO. YDS.
100	
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80	
70	
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90	
100	
110	

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580
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560
550
540
530



13+50.00
550.5



13+00.00
559.4

END AREA		VOLUME		CALCULATED MME	CHECKED ADW
CUT	FILL	CUT	FILL		

SHEET TOTAL

100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

SHEET TOTAL

CROSS SECTIONS - US 23 INTERCHANGE CHANNEL 3
STA. 13+00.00 TO STA. 14+00.00

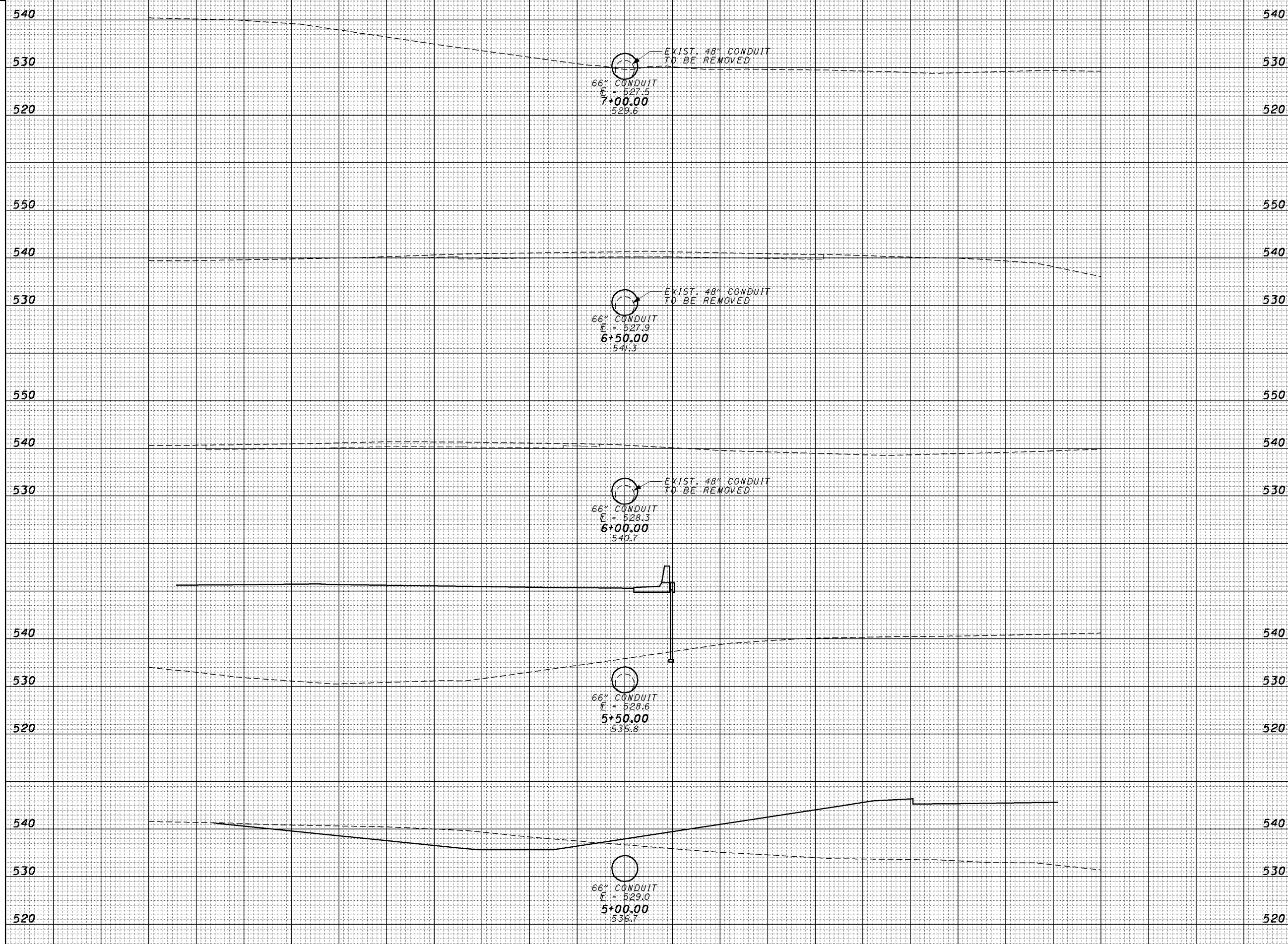
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721

meiben 11/23/2007 9:41AM \\varies\PlanSets-400_sci823_half.pen

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



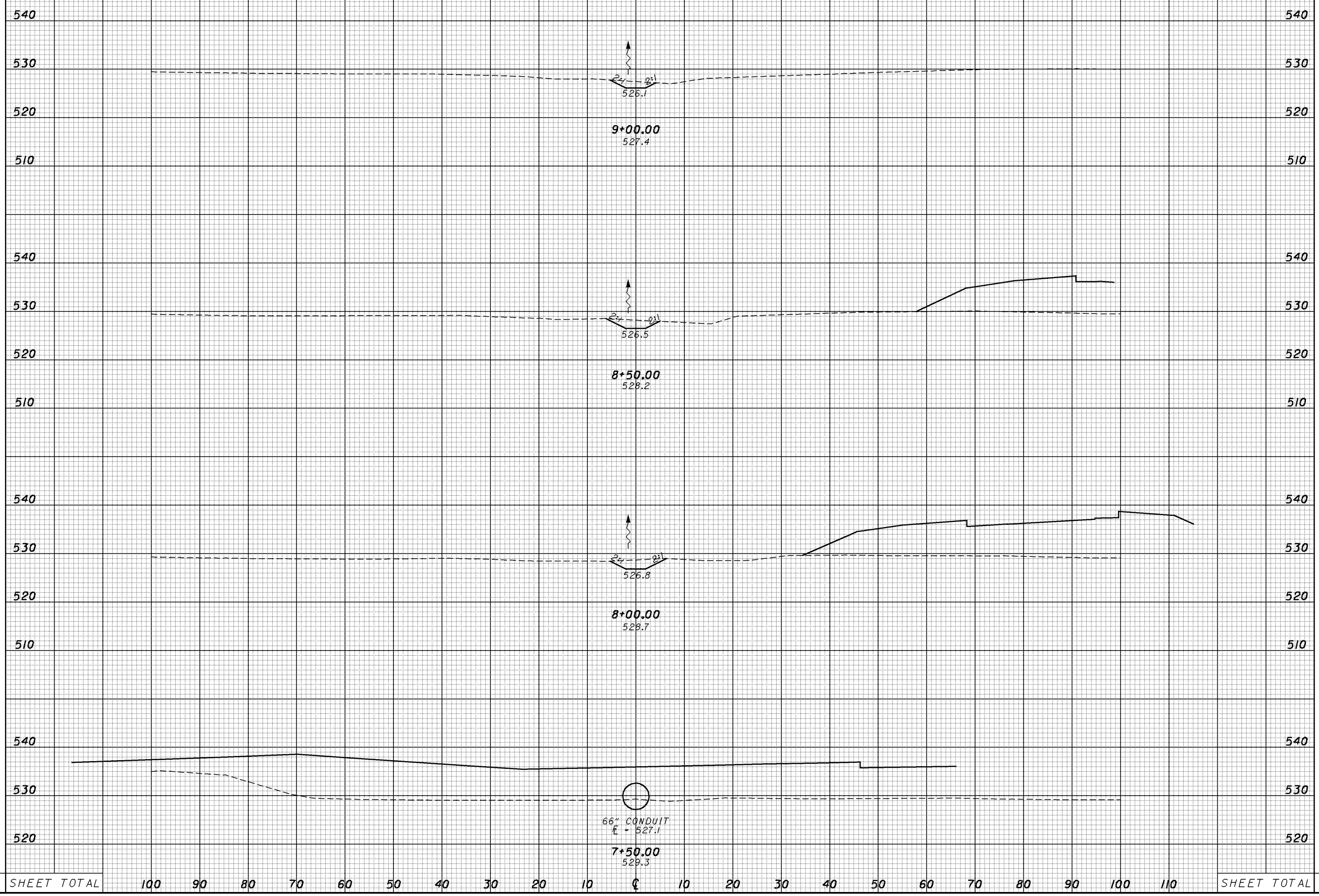
SHEET TOTAL	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100	110	SHEET TOTAL
-------------	-----	----	----	----	----	----	----	----	----	----	---	----	----	----	----	----	----	----	----	----	-----	-----	-------------

CROSS SECTIONS - US 23 INTERCHANGE CHANNEL 4
STA. 5+00.00 TO STA. 7+00.00
SCI-823-10.13

meiben 19415xd402_ch.dgn 11/23/2007 9:41AM \\aries\PlanSets-400_sci823_half.pen

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



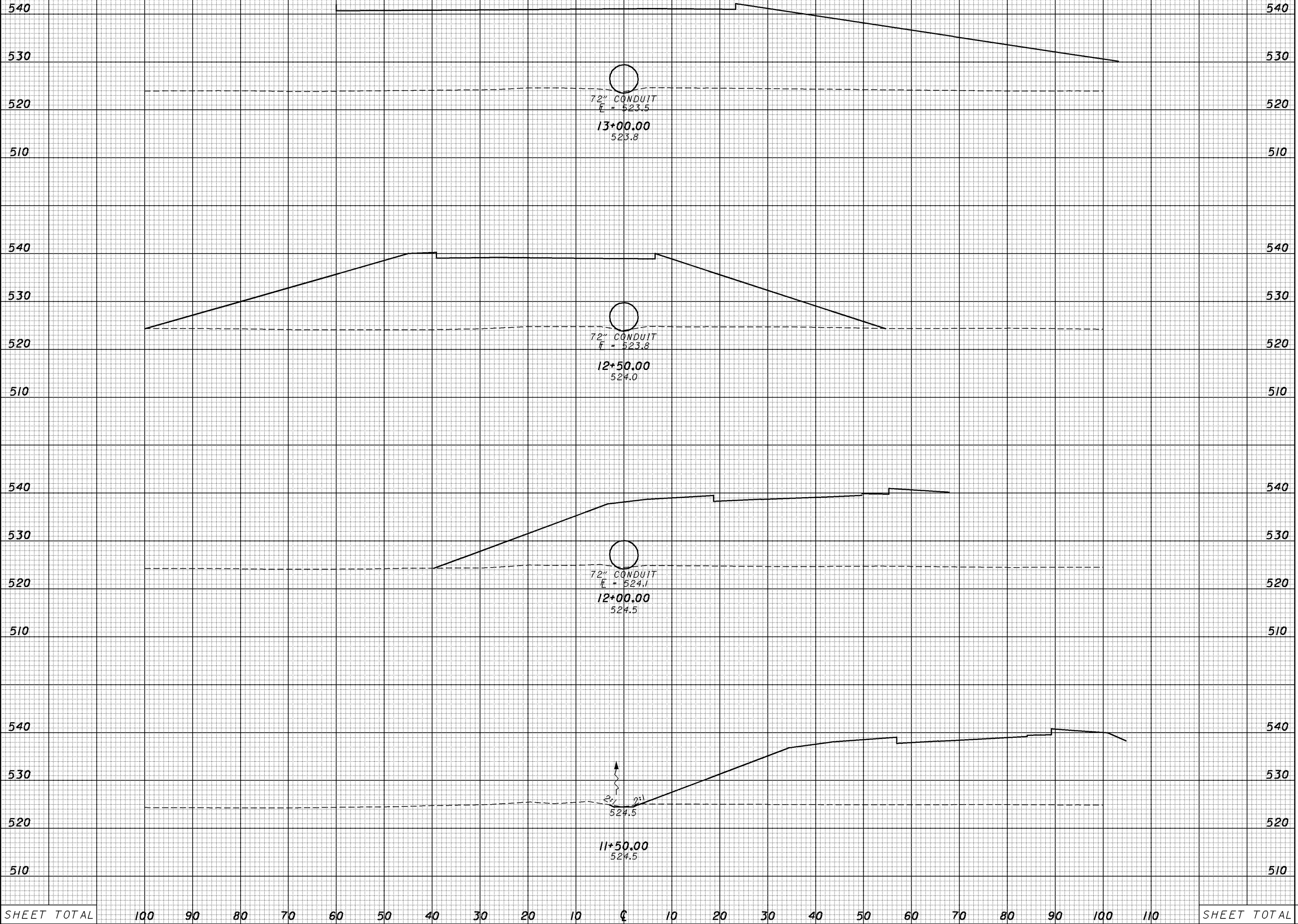
CROSS SECTIONS - US 23 INTERCHANGE CHANNEL 4
STA. 7+50.00 TO STA. 9+00.00

SCI-823-10.13

723

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MME CHECKED ADW



CROSS SECTIONS - US 23 INTERCHANGE CHANNEL 4
STA. 11+50.00 TO STA. 13+00.00

SCI-823-10.13

725

\\aries\PlanSets-400_sci823_half.pen

11/23/2007 9:42 AM

mellen 19415xd404_ch.dgn

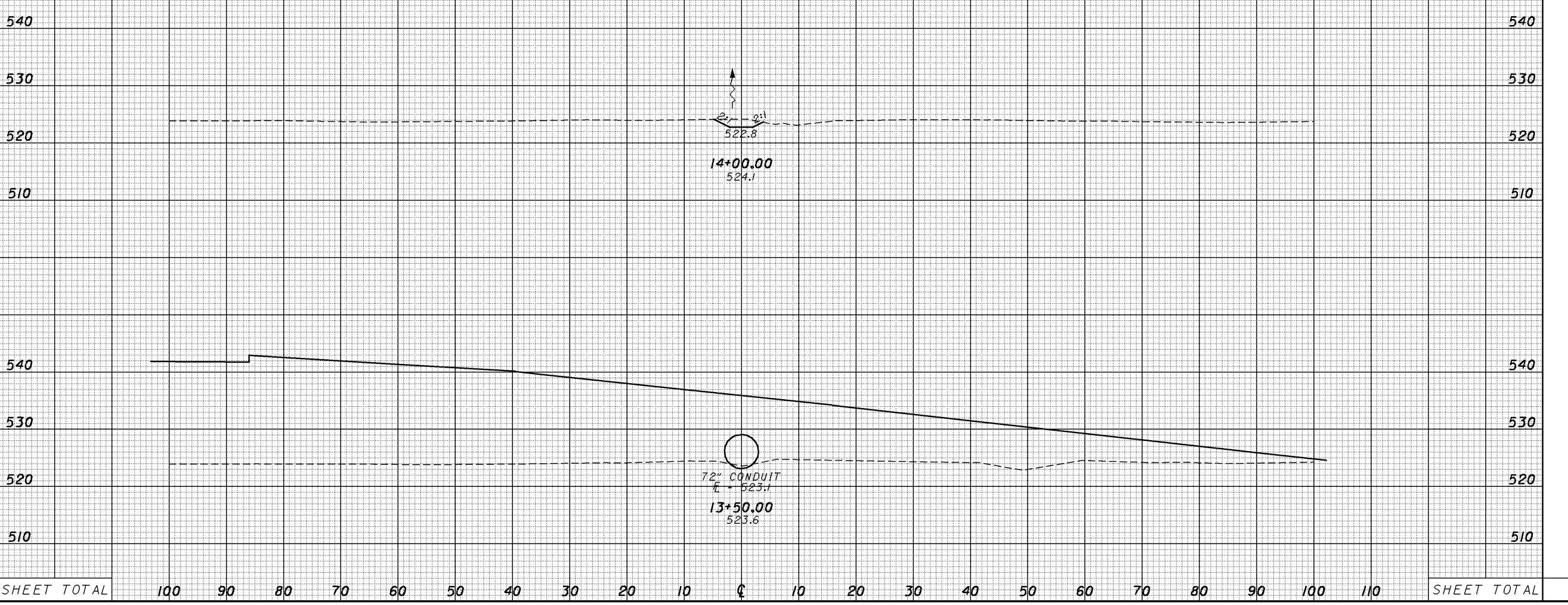
SHEET TOTAL

SHEET TOTAL

SEEDING
 END SO. SQ. YDS.
 WIDTH YDS.

END AREA VOLUME
 CUT FILL CUT FILL
 CALCULATED MME CHECKED ADW

11/23/2007 9:42 AM
 \\aries\PlanSets-400_sci823_half.pen
 meiben 19415xd405_ch.dgn



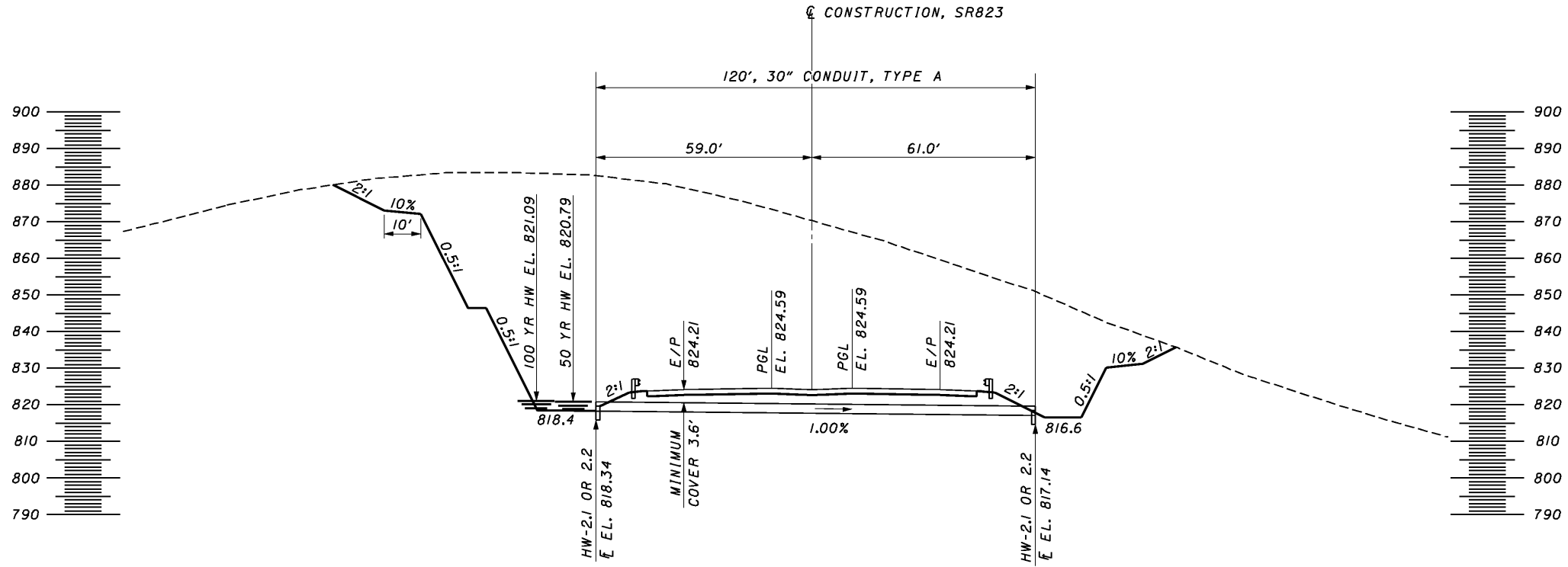
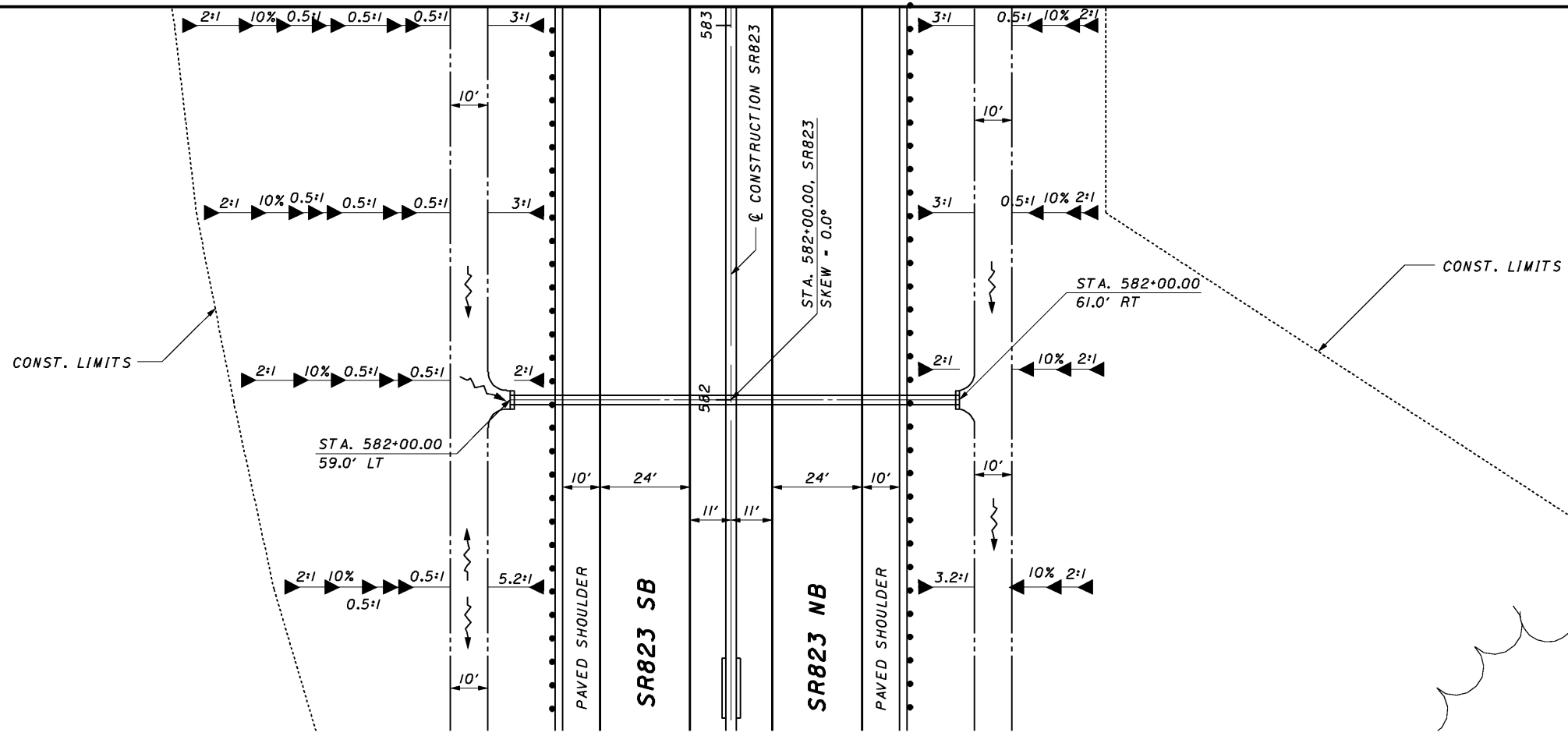
SHEET TOTAL 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 SHEET TOTAL

CROSS SECTIONS - US 23 INTERCHANGE CHANNEL 4
 STA. 13+50.00 TO STA. 14+00.00

SCI-823-10.13

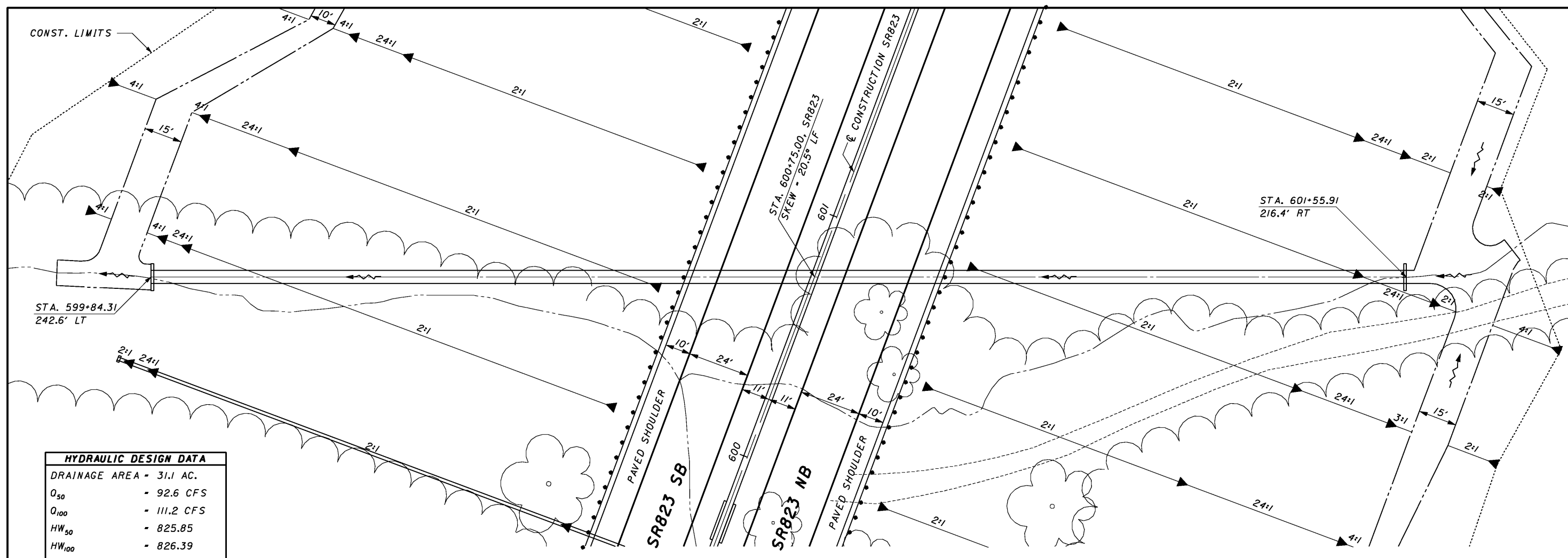
726

HYDRAULIC DESIGN DATA	
DRAINAGE AREA	- 5.7 AC.
Q_{50}	- 21.2 CFS
Q_{100}	- 24.2 CFS
HW_{50}	- 820.79
HW_{100}	- 821.09
V_{50}	- 6.6 FPS
V_{100}	- 6.9 FPS



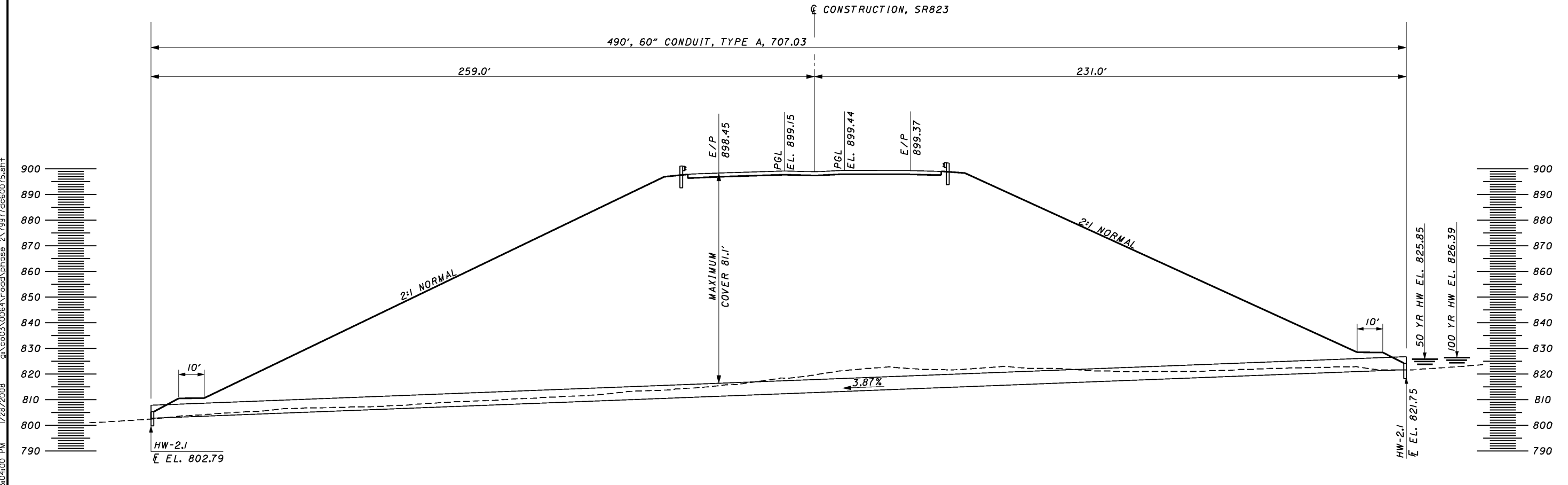
CALCULATED DL
CHECKED RN

CULVERT DETAIL
SR823 STA. 582+00.00



HYDRAULIC DESIGN DATA

DRAINAGE AREA	- 31.1 AC.
Q_{50}	- 92.6 CFS
Q_{100}	- 111.2 CFS
HW_{50}	- 825.85
HW_{100}	- 826.39
V_{50}	- 12.0 FPS
V_{100}	- 12.6 FPS



**CULVERT DETAIL
 SR823 STA. 600+75.00**

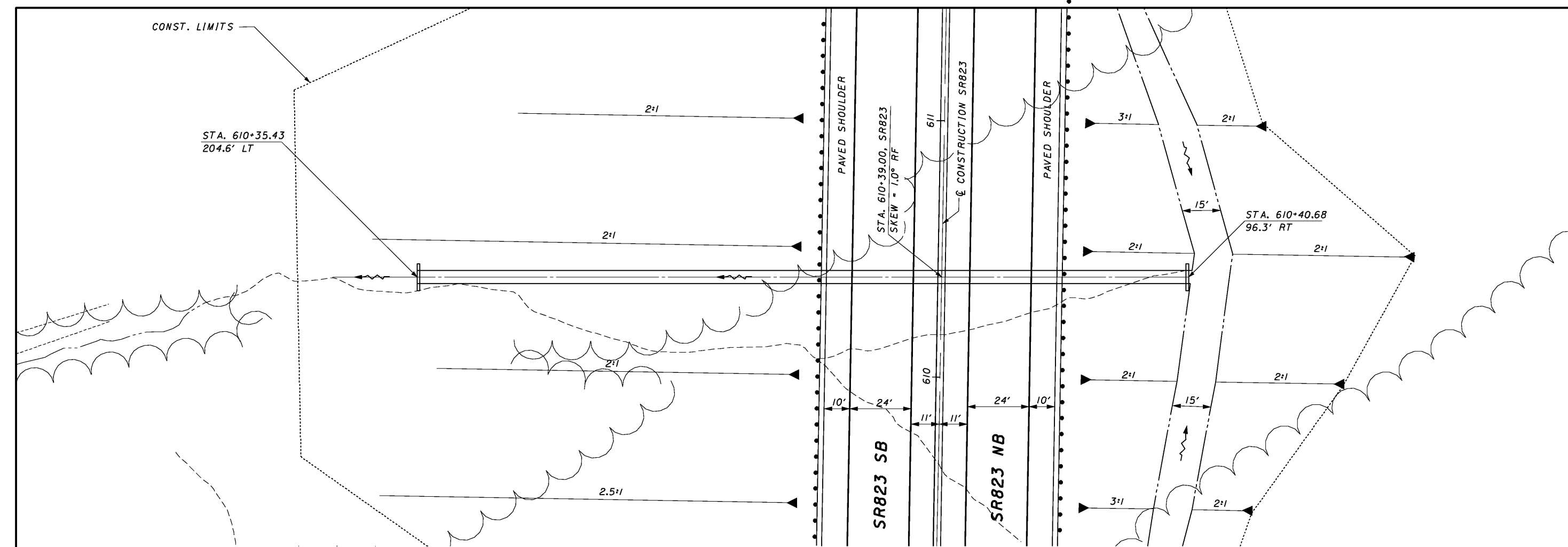
SCI-823-10.13

3:04:00 PM 1/28/2008 g:\co03\0064\road\phase 2\79977dc60075.sht

3:04:02 PM 1/28/2008 g:\co03\0064\road\phase 2\79977d66f039.sht

CONST. LIMITS

STA. 610+35.43
204.6' LT



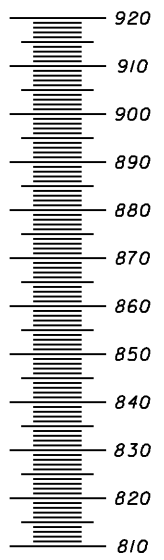
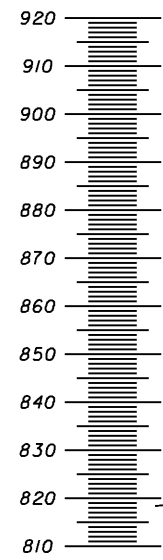
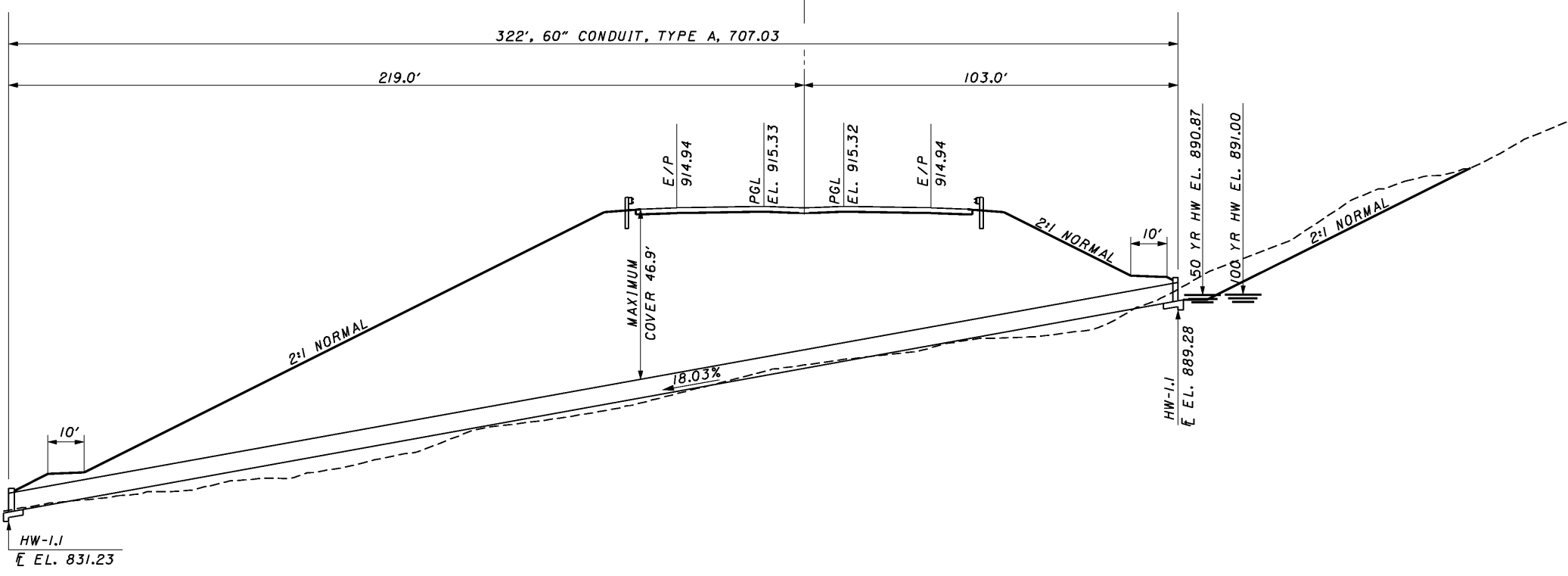
SR823 SB

SR823 NB

HYDRAULIC DESIGN DATA	
DRAINAGE AREA = 5.01 AC.	
Q_{50}	- 18.1 CFS
Q_{100}	- 20.6 CFS
HW_{50}	- 890.87
HW_{100}	- 891.00
V_{50}	- 12.9 FPS
V_{100}	- 13.4 FPS

CONSTRUCTION, SR823

322', 60" CONDUIT, TYPE A, 707.03



CALCULATED MDC
CHECKED RN

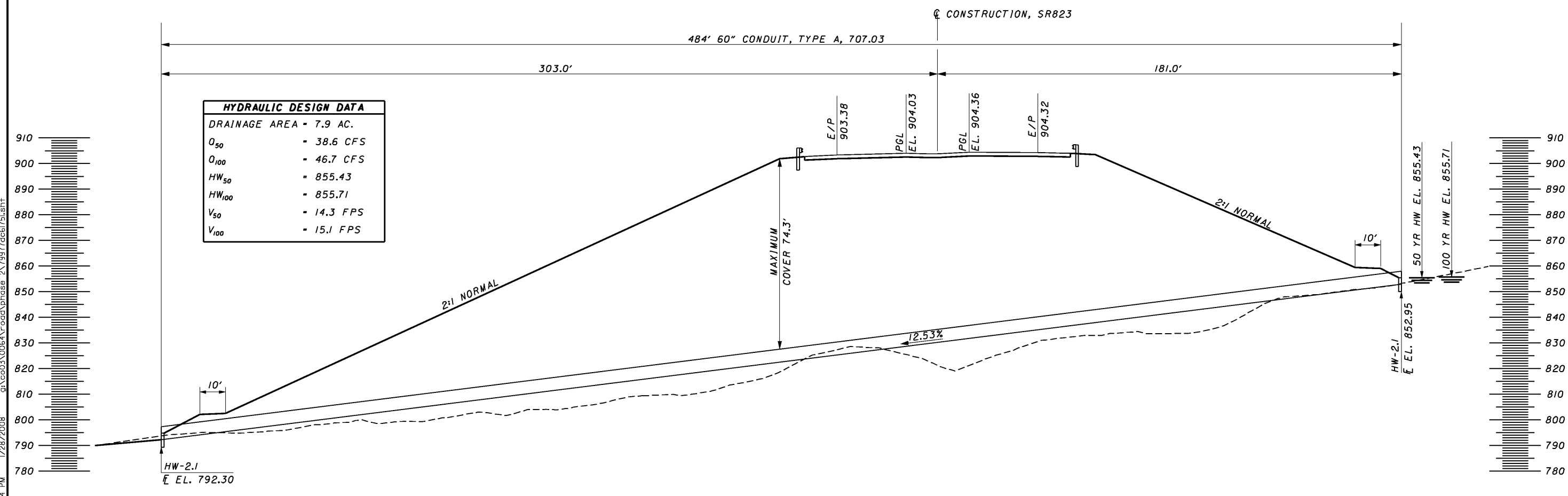
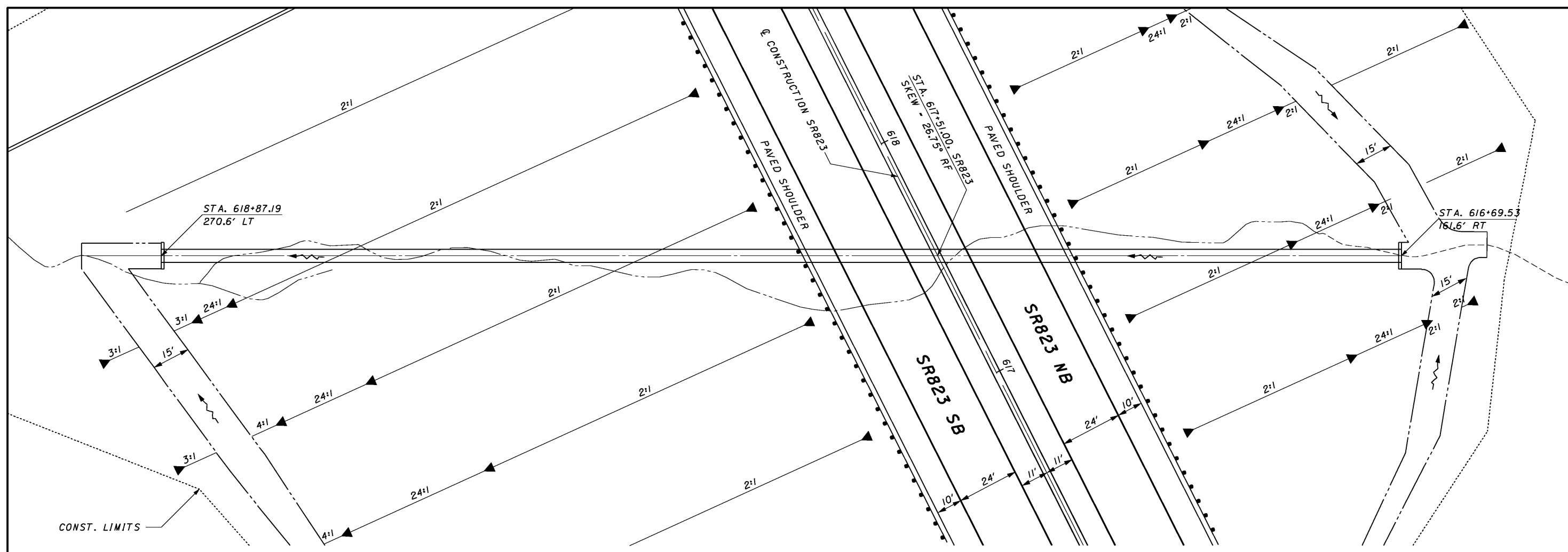
CULVERT DETAIL
SR823 STA. 610+39.00

SCI-823-10.13



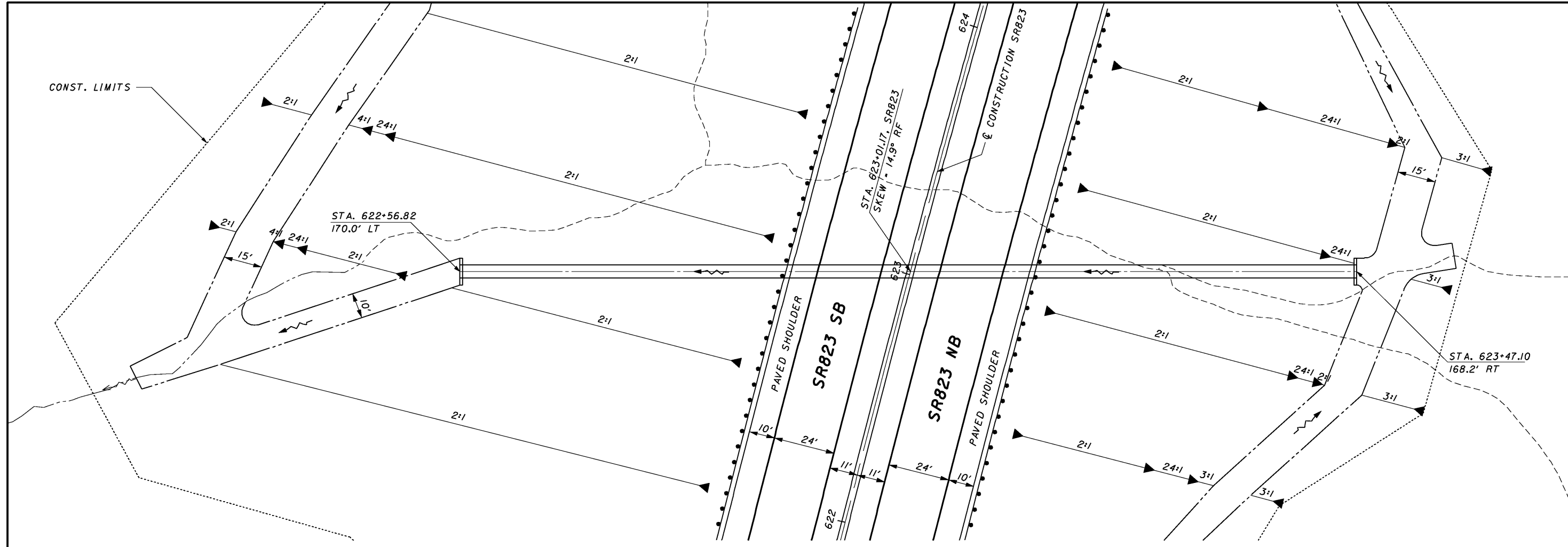
CULVERT DETAIL
SR823 STA. 617+51.00

SCI-823-10.13

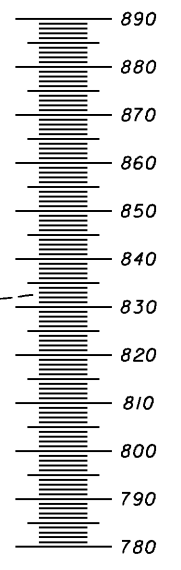
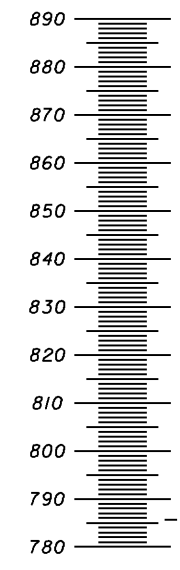
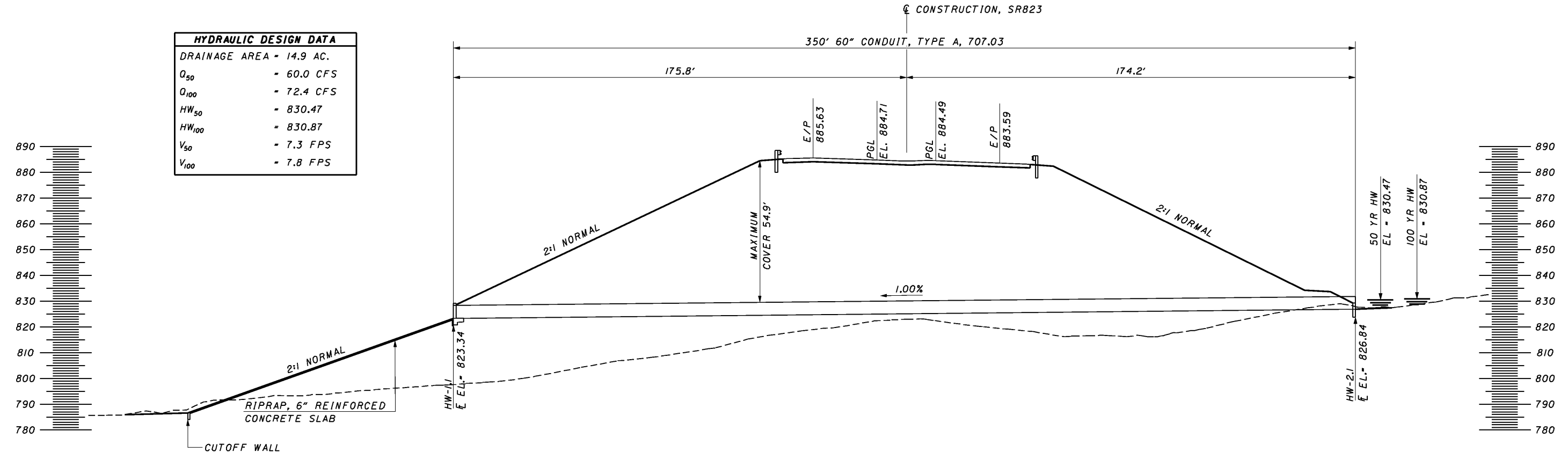


3:04:04 PM 1/28/2008 g:\co03\0064\road\phase 2\79977d661751.sht

3:04:07 PM 1/28/2008 g:\co03\0064\road\phase 2\7977d6c2301.sht



HYDRAULIC DESIGN DATA	
DRAINAGE AREA - 14.9 AC.	
Q_{50}	= 60.0 CFS
Q_{100}	= 72.4 CFS
HW_{50}	= 830.47
HW_{100}	= 830.87
V_{50}	= 7.3 FPS
V_{100}	= 7.8 FPS



CALCULATED MDC
 CHECKED RN

0 10 20 40
 HORIZONTAL SCALE IN FEET

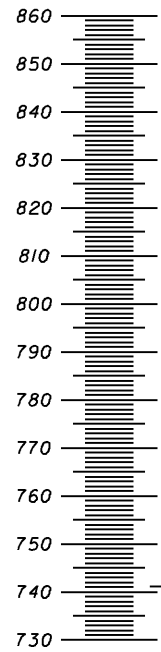
CULVERT DETAIL
SR823 STA. 623+01.17

3:04:09 PM 1/28/2008 g:\co03\0064\road\phase 2\79977dc63586c.sht

STA. 636+27.41,
304.6', LT

CONST. LIMITS

HYDRAULIC DESIGN DATA	
DRAINAGE AREA - 39.0 AC.	
Q_{50}	- 123.2 CFS
Q_{100}	- 148.4 CFS
HW_{50}	- 779.52
HW_{100}	- 780.17
V_{50}	- 15.0 FPS
V_{100}	- 15.8 FPS



HW-2.1
EL. 743.39

538', 66" CONDUIT, TYPE A, 707.03

307.5'

2.5:1 NORMAL

5.85%

E/P
845.11

PGL
EL. 844.47

MAXIMUM
COVER 80.3'

MATCH LINE @ SR823, SEE SHEET X

CONSTRUCTION, S.R. 823
STA. 635+86

SR823 SB

PAVED SHOULDER

CONSTRUCTION SR823
STA. 6635+86.00, SR823
SKEW - 8.0° LF

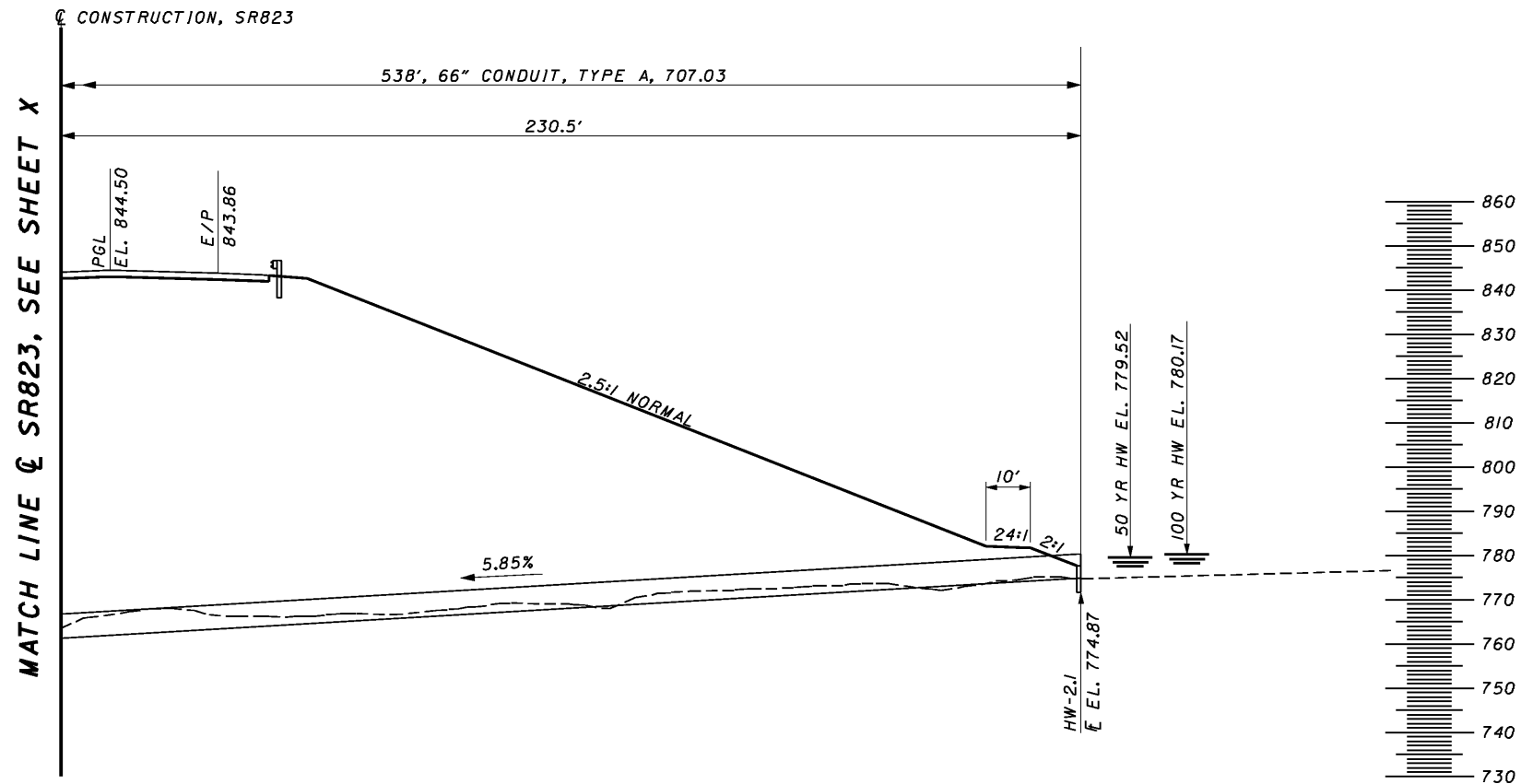
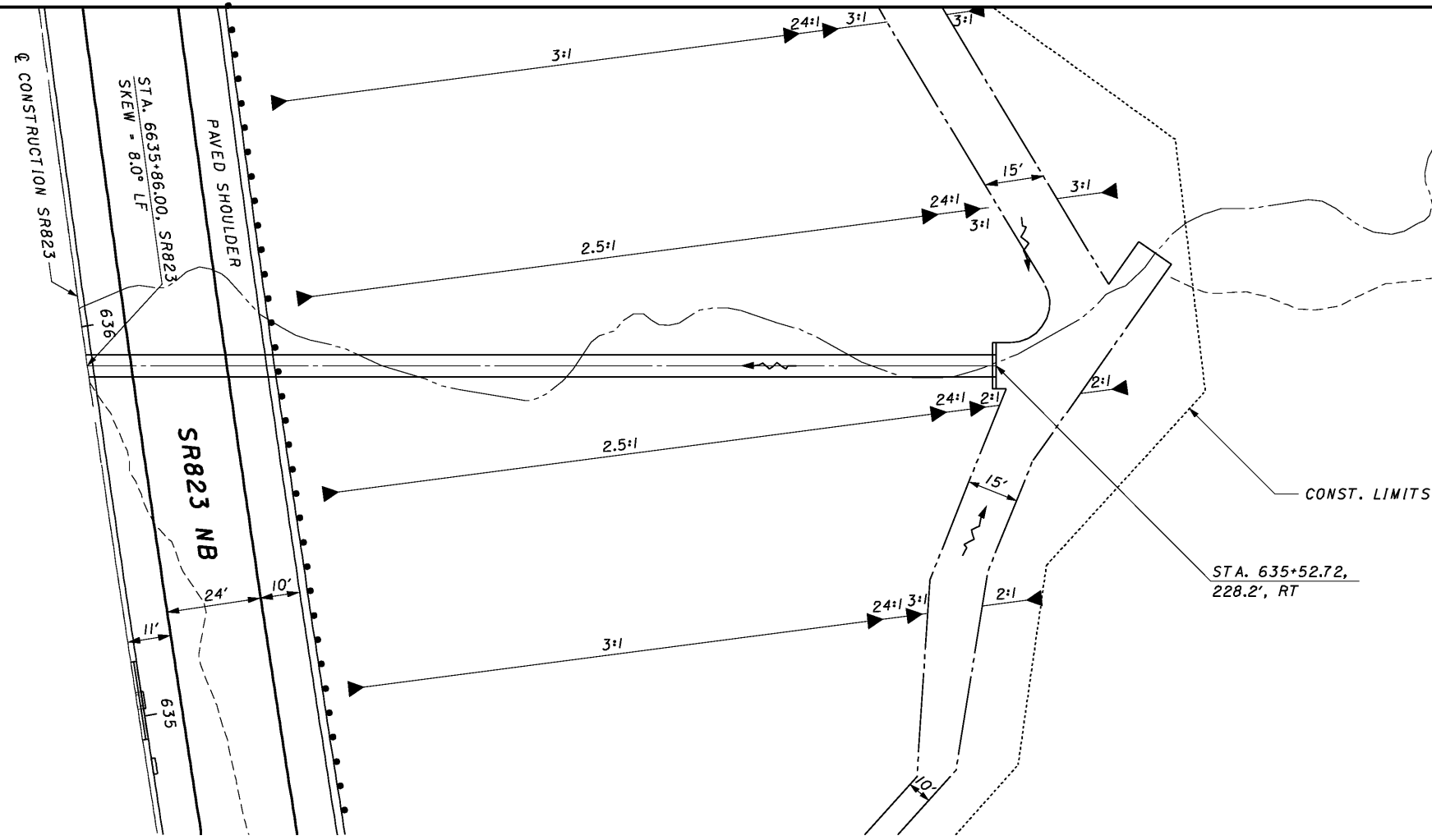


CALCULATED MDC
CREATED HJS

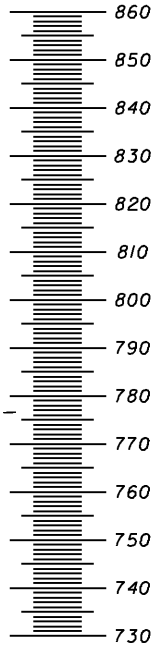
CULVERT DETAIL
SR823 STA. 635+86.00

SCI-823-10.13

732



HYDRAULIC DESIGN DATA	
DRAINAGE AREA = 39.0 AC.	
Q_{50}	= 123.2 CFS
Q_{100}	= 148.4 CFS
HW_{50}	= 779.52
HW_{100}	= 780.17
V_{50}	= 15.0 FPS
V_{100}	= 15.8 FPS



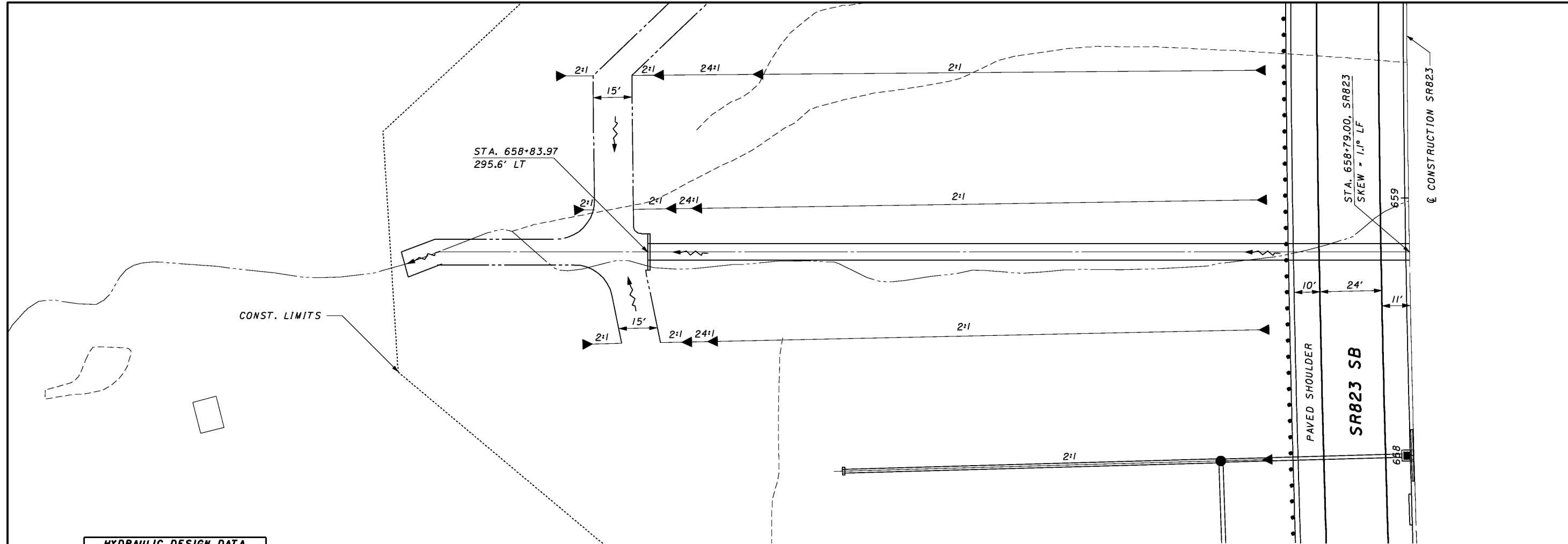
CULVERT DETAIL
SR823 STA. 635+86.00



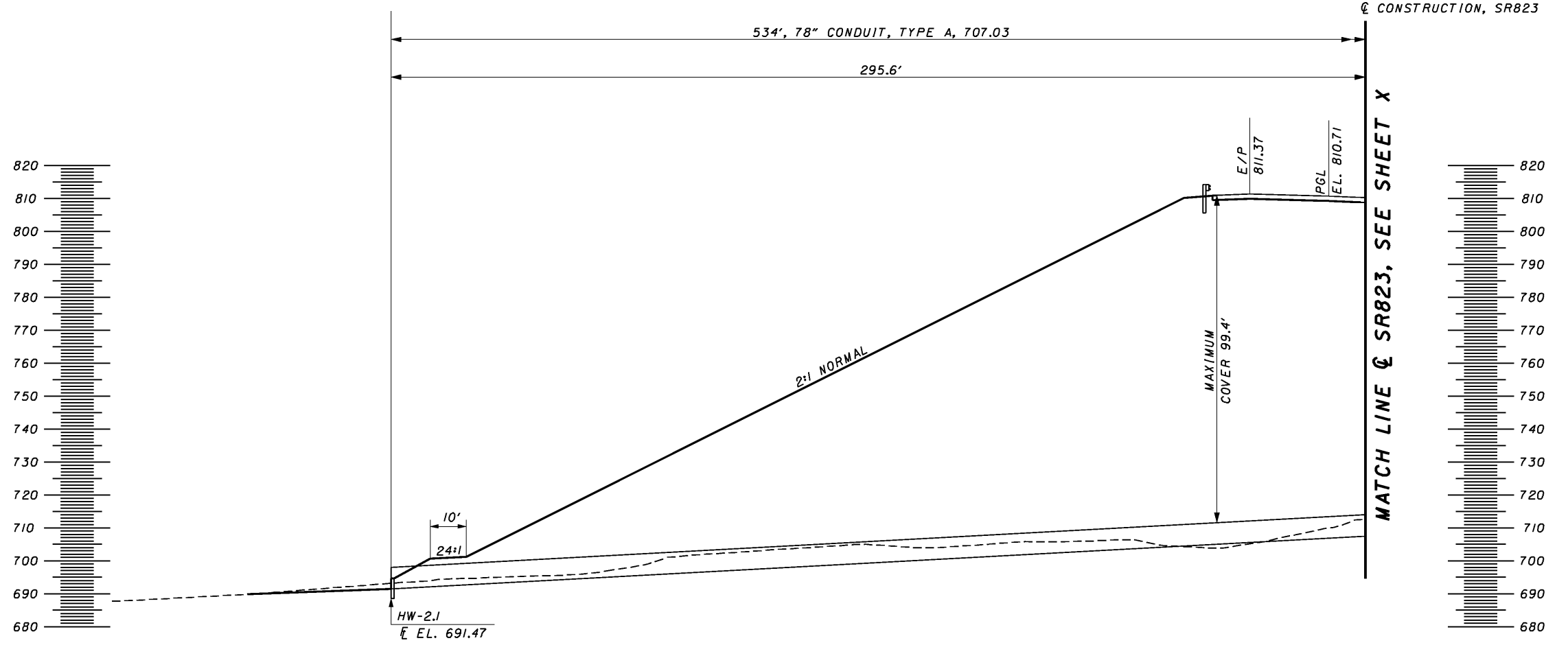
CALCULATED MDC
CHECKED RN

CULVERT DETAIL
SR823 STA. 658+79.00

SCI-823-10.13



HYDRAULIC DESIGN DATA	
DRAINAGE AREA - 67.4 AC.	
Q_{50}	- 184.2 CFS
Q_{100}	- 221.8 CFS
HW_{50}	- 725.81
HW_{100}	- 726.56
V_{50}	- 16.1 FPS
V_{100}	- 16.9 FPS



3:04:45 PM 1/28/2008 g:\co03\0064\road\phase 2\79977dc65879a.sht

STA. 658+79.00, SR823
SKEW = 1.1° LF

MATCH LINE @ SR823, SEE SHEET X

CONSTRUCTION, SR823

534', 78" CONDUIT, TYPE A, 707.03

238.4'

PGL
EL. 810.71

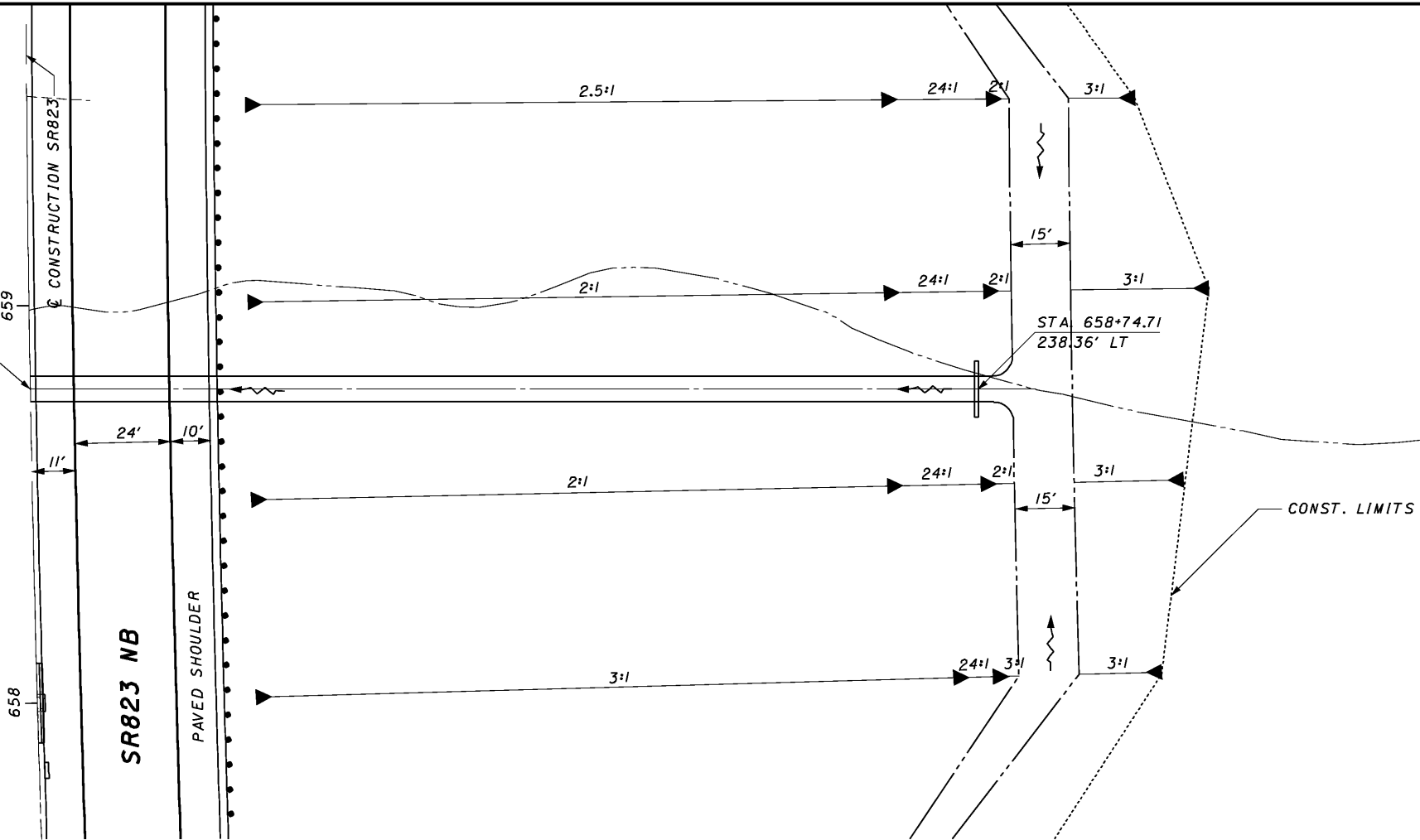
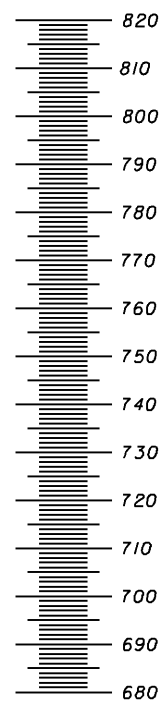
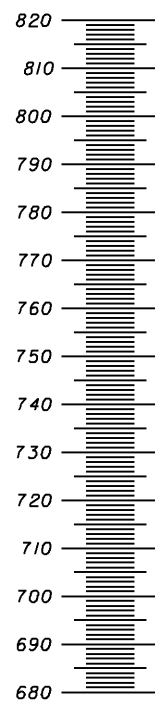
E/P
810.05

2:1 NORMAL

HW-2.1
E. EL. 720.37

50 YR HW EL. 725.81

100 YR HW EL. 726.56

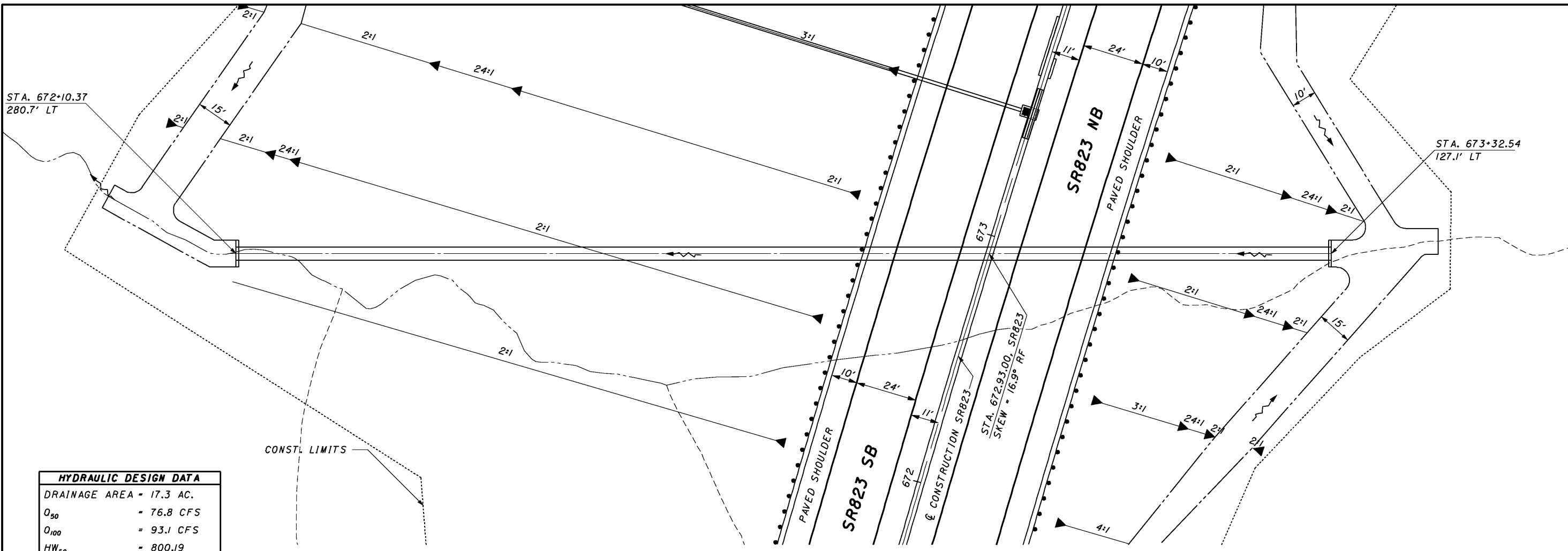


HYDRAULIC DESIGN DATA	
DRAINAGE AREA - 67.4 AC.	
Q_{50}	- 184.2 CFS
Q_{100}	- 221.8 CFS
HW_{50}	- 725.81
HW_{100}	- 726.56
V_{50}	- 16.1 FPS
V_{100}	- 16.9 FPS

CALCULATED MDC
CHECKED RN

HORIZONTAL SCALE IN FEET

CULVERT DETAIL
SR823 STA. 658+79.00



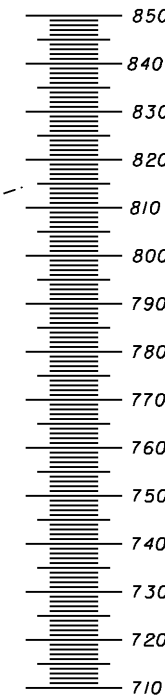
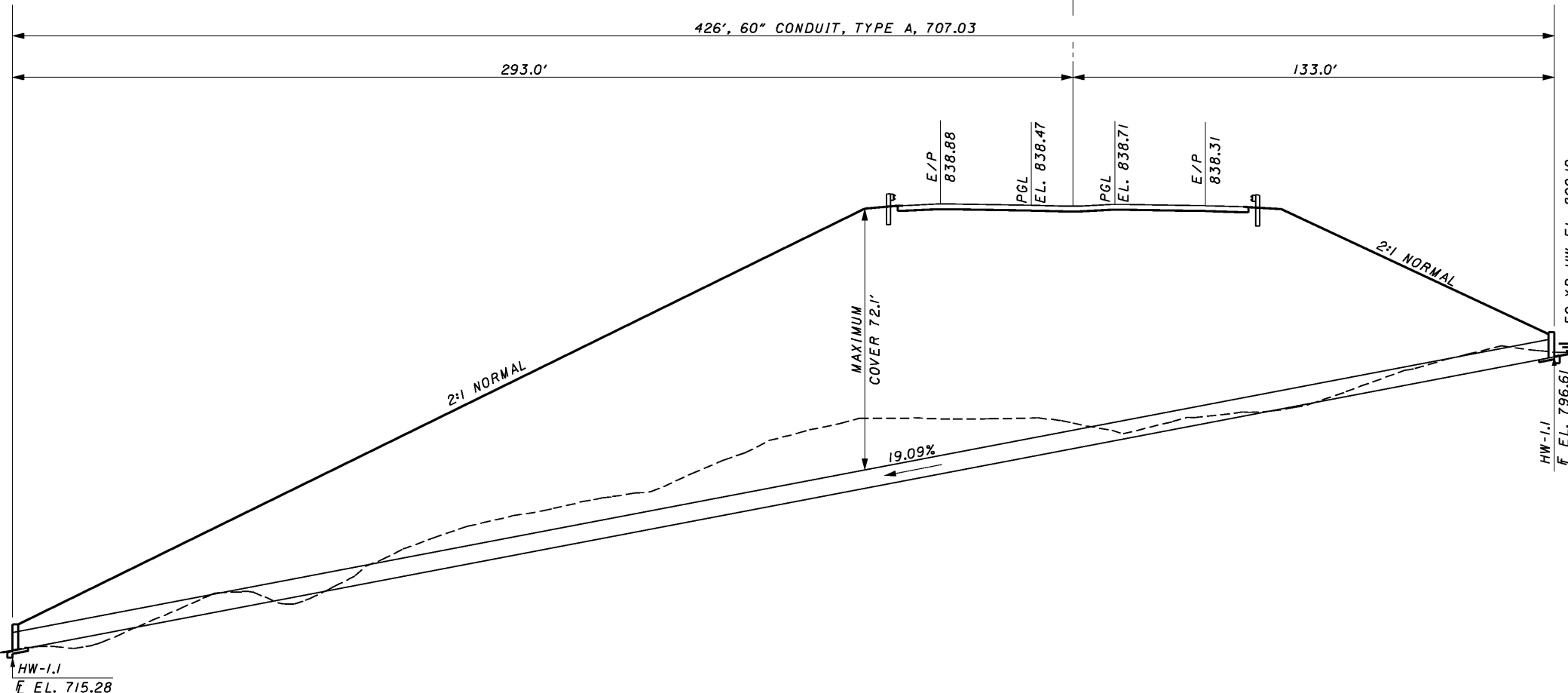
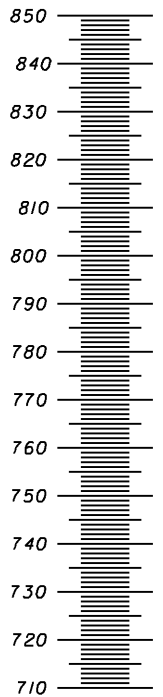
HYDRAULIC DESIGN DATA

DRAINAGE AREA = 17.3 AC.

Q_{50}	= 76.8 CFS
Q_{100}	= 93.1 CFS
HW_{50}	= 800.19
HW_{100}	= 800.64
V_{50}	= 20.2 FPS
V_{100}	= 21.4 FPS

426', 60" CONDUIT, TYPE A, 707.03

293.0' 133.0'



CALCULATED MDC
CREATED RN

0 20 40
HORIZONTAL SCALE IN FEET

CULVERT DETAIL
SR823 STA. 672+93.00

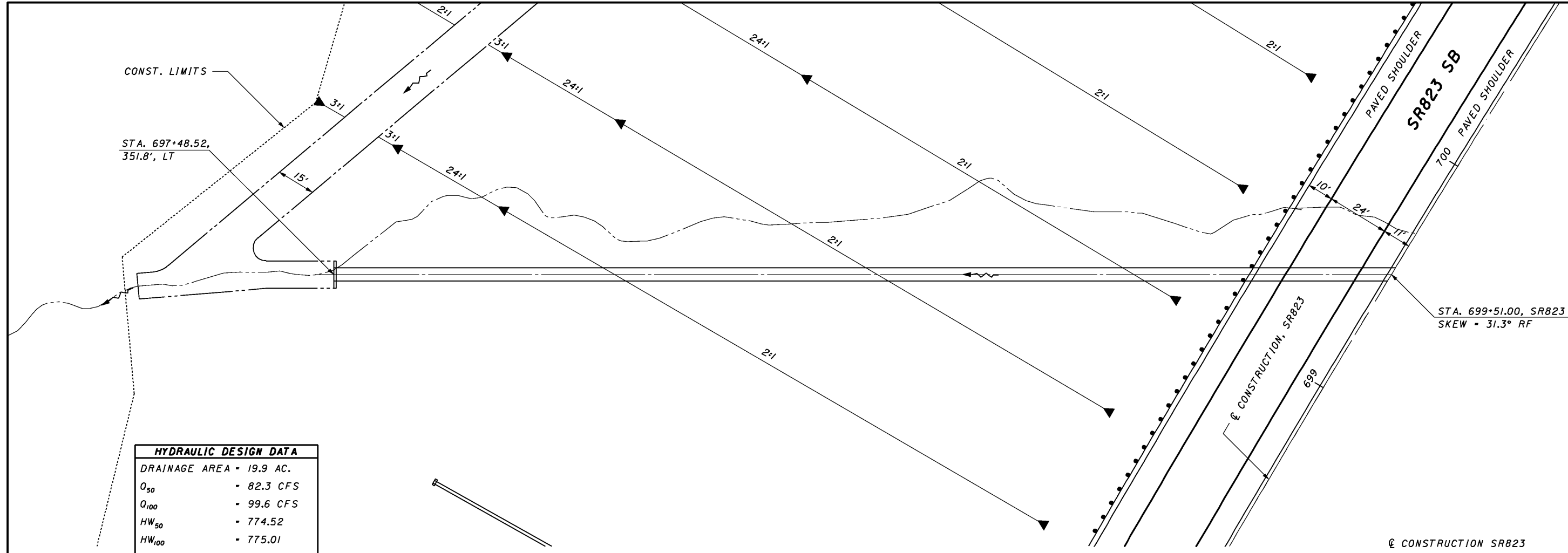
SCI-823-10.13

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CALCULATED MDC
 CHECKED RN

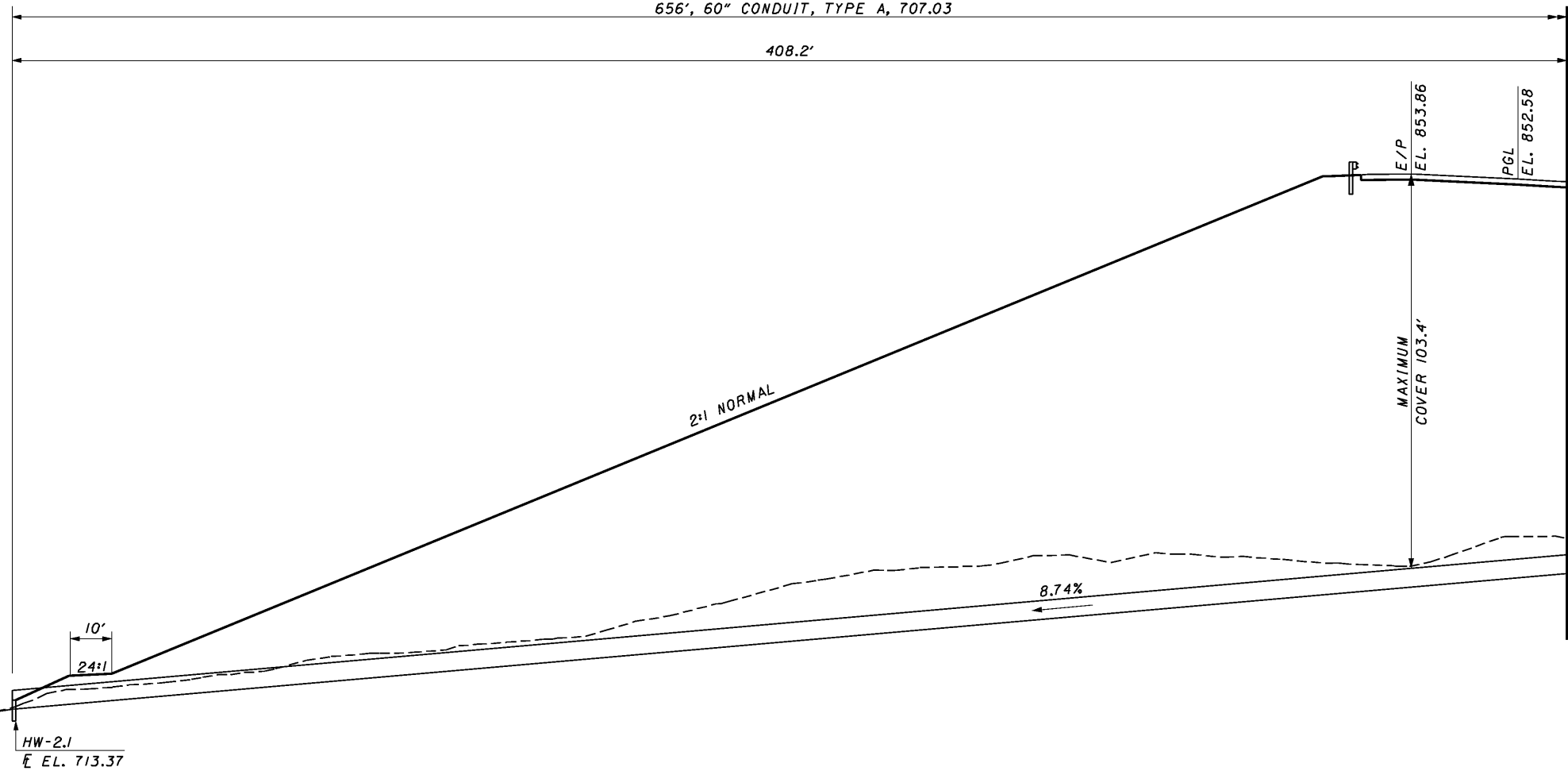
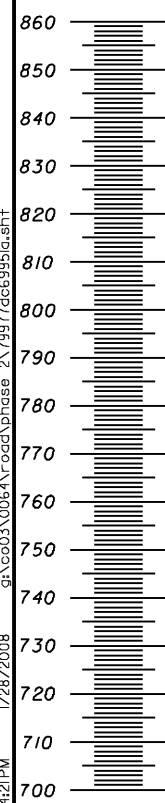
CULVERT DETAIL
SR823 STA. 699+51.00

SCI-823-10.13
 737



HYDRAULIC DESIGN DATA

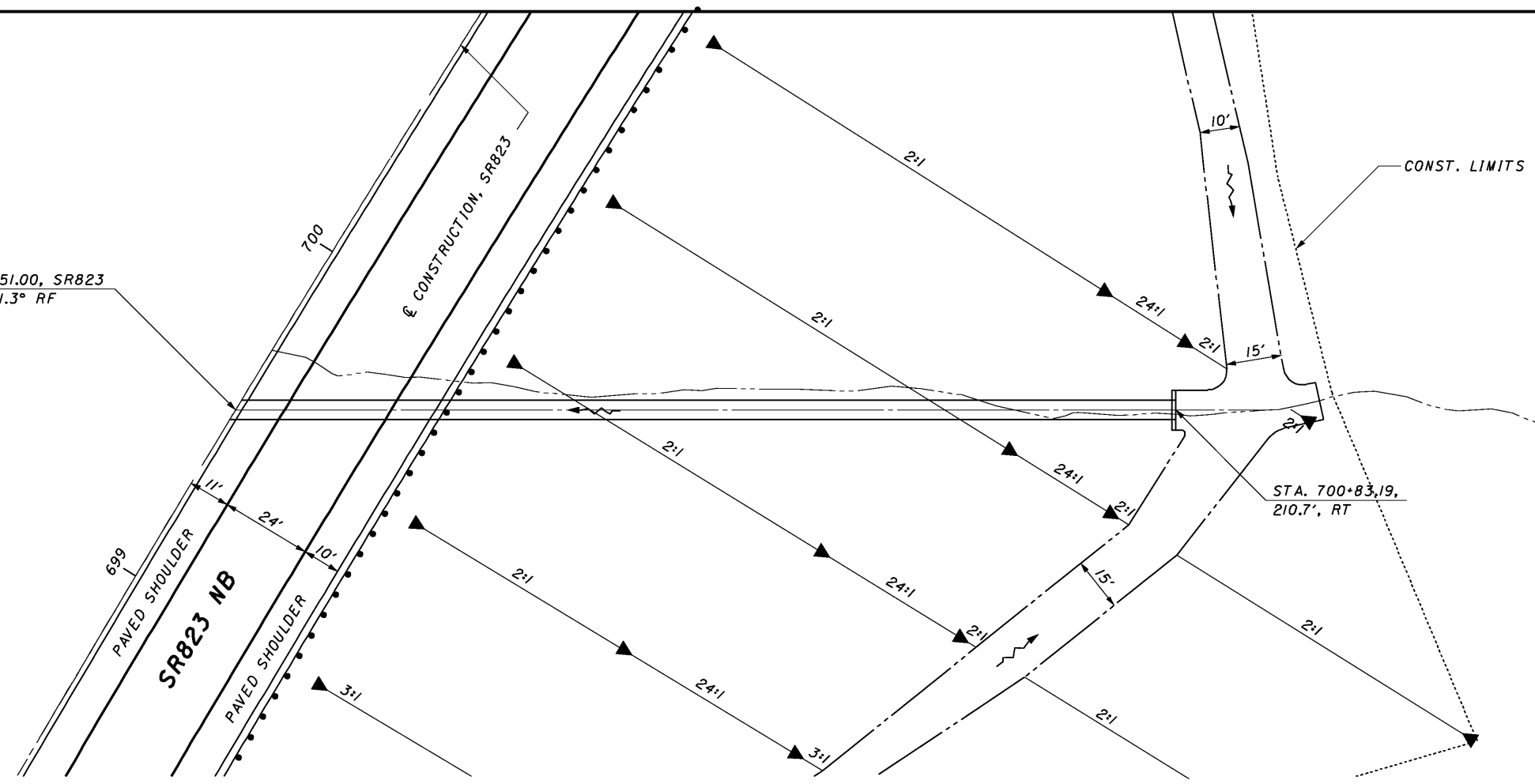
DRAINAGE AREA - 19.9 AC.	
Q_{50}	- 82.3 CFS
Q_{100}	- 99.6 CFS
HW_{50}	- 774.52
HW_{100}	- 775.01
V_{50}	- 15.6 FPS
V_{100}	- 16.3 FPS



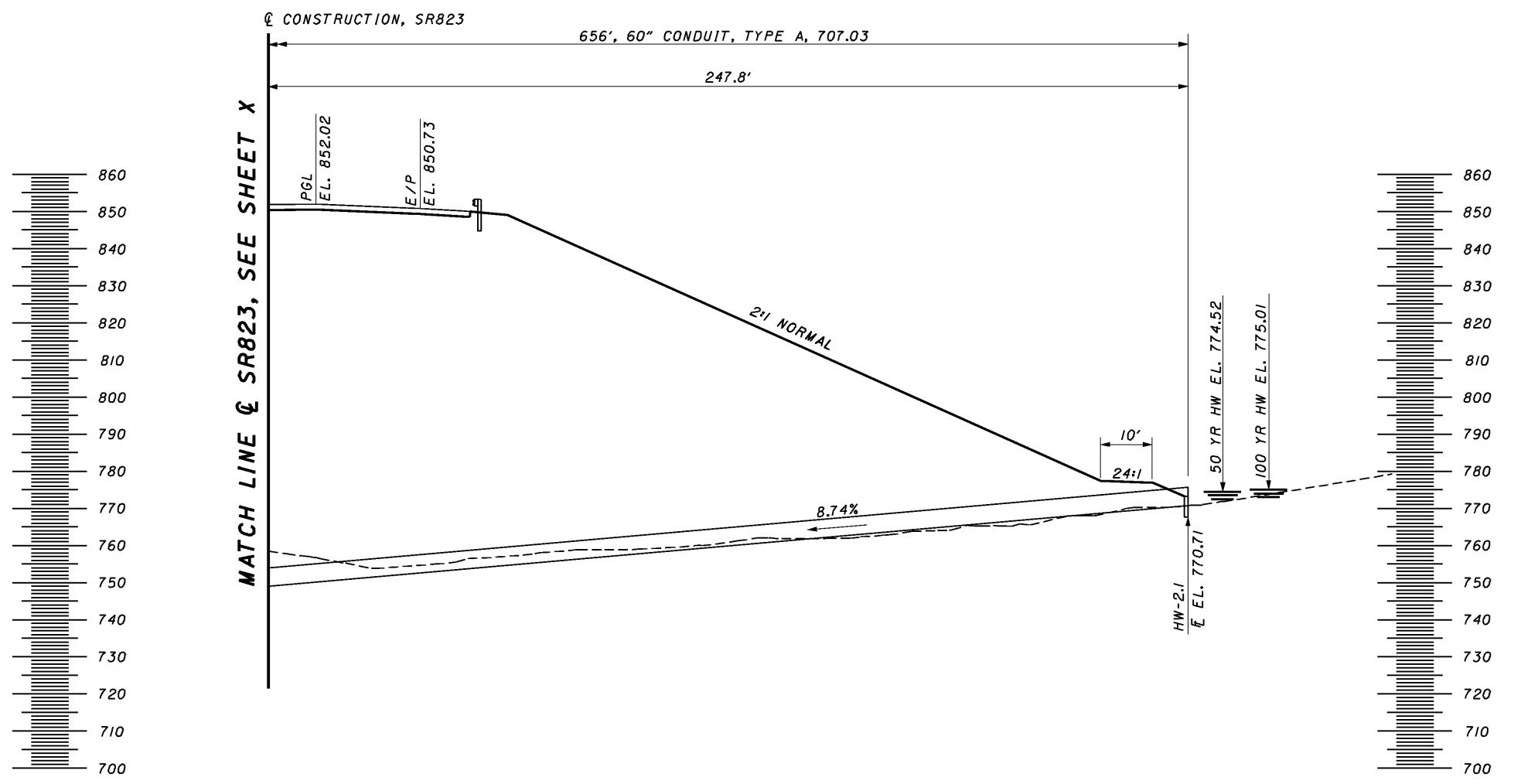
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3:04:25 PM 1/28/2008 g:\co03\0064\road\phase 2\79977dc6995b.sht

STA. 699+51.00, SR823
SKEW = 31.3° RF



HYDRAULIC DESIGN DATA	
DRAINAGE AREA	= 19.9 AC.
Q_{50}	= 82.3 CFS
Q_{100}	= 99.6 CFS
HW_{50}	= 774.52
HW_{100}	= 775.01
V_{50}	= 15.6 FPS
V_{100}	= 16.3 FPS

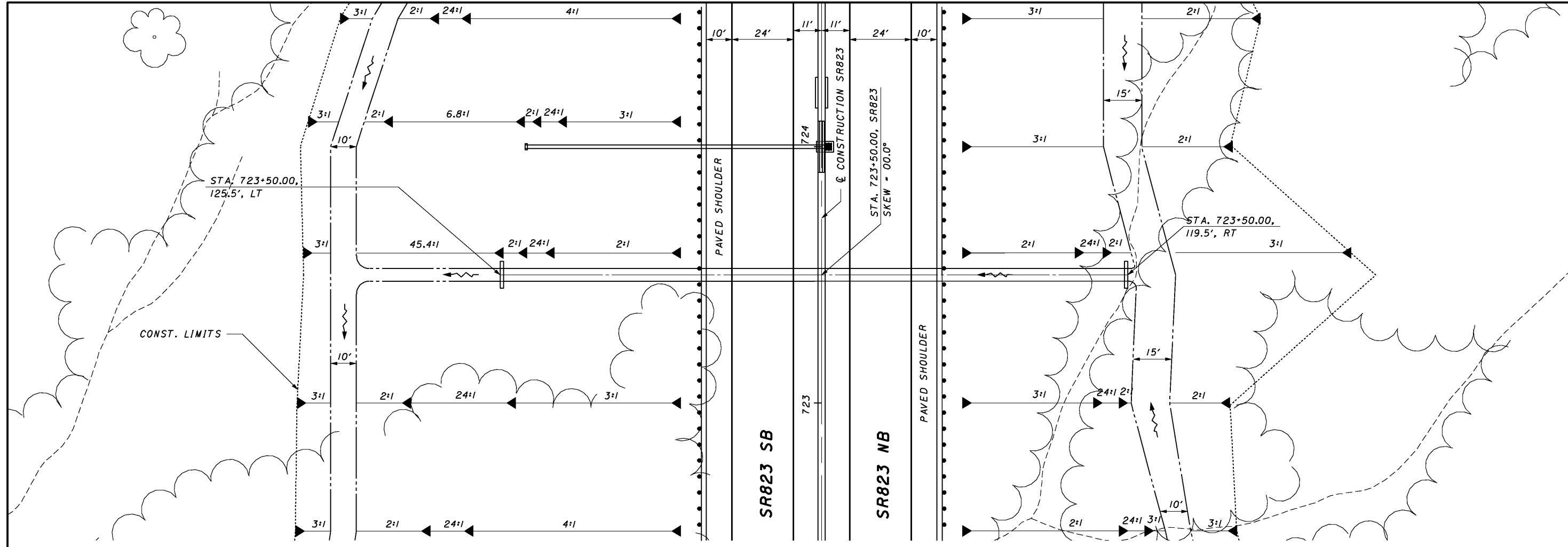


CALCULATED MDC
CREATED RN

CULVERT DETAIL
SR823 STA. 699+51.00

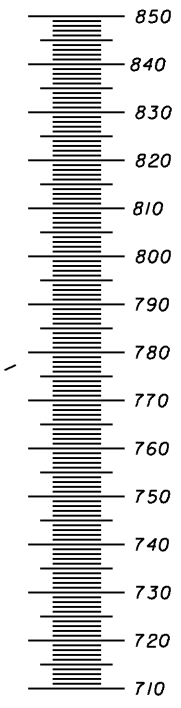
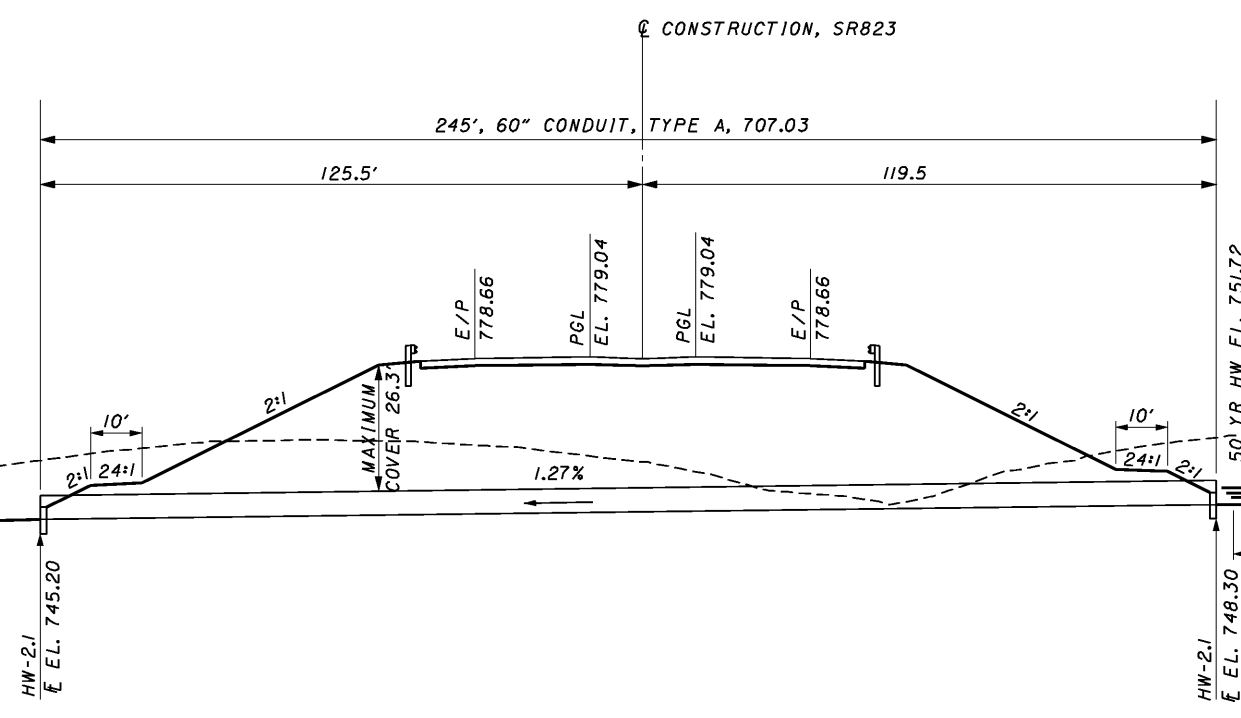
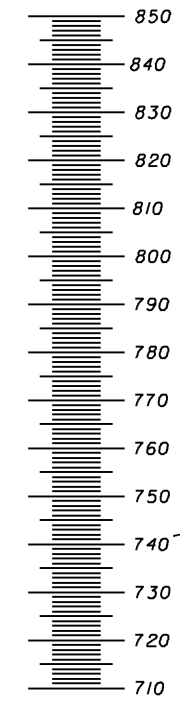
SCI-823-10.13

3:04:28 PM 1/28/2008 g:\co03\0064\road\phase 2\79917d\72350.sht



CONST. LIMITS

HYDRAULIC DESIGN DATA	
DRAINAGE AREA = 26.4 AC.	
Q_{50}	= 68.1 CFS
Q_{100}	= 81.4 CFS
HW_{50}	= 751.72
HW_{100}	= 752.09
V_{50}	= 8.0 FPS
V_{100}	= 8.3 FPS

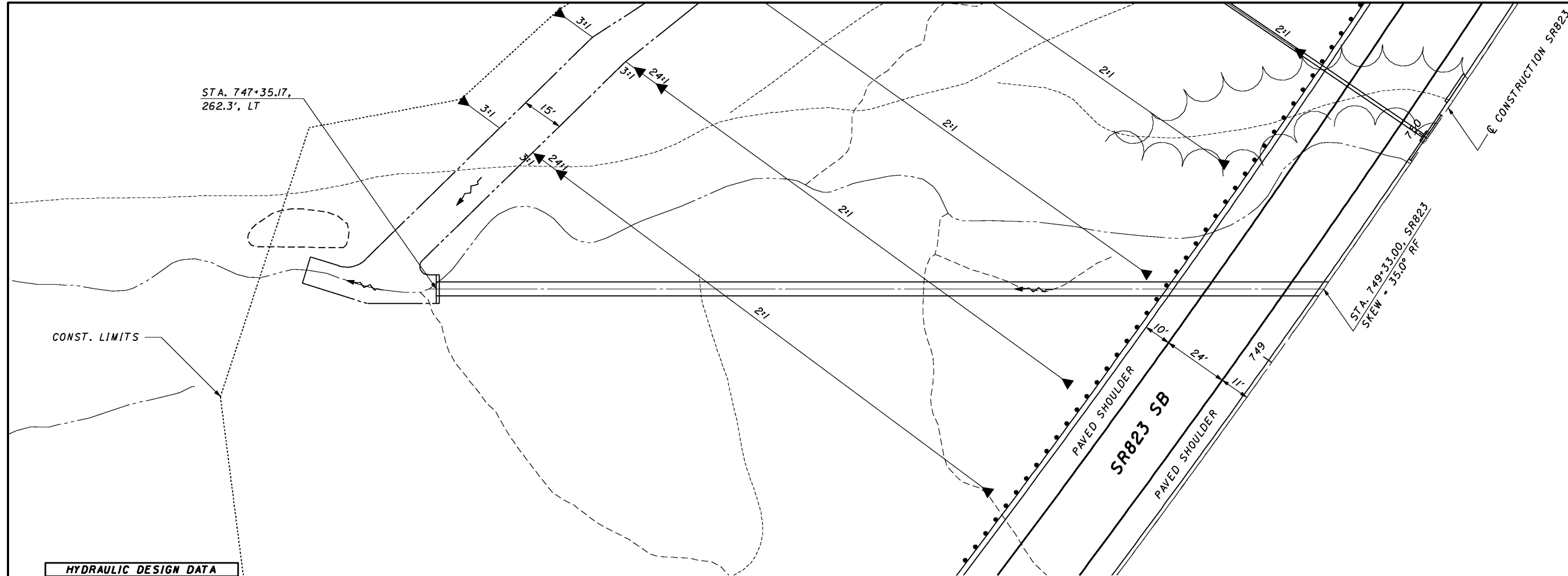


CALCULATED DL
CHECKED RN

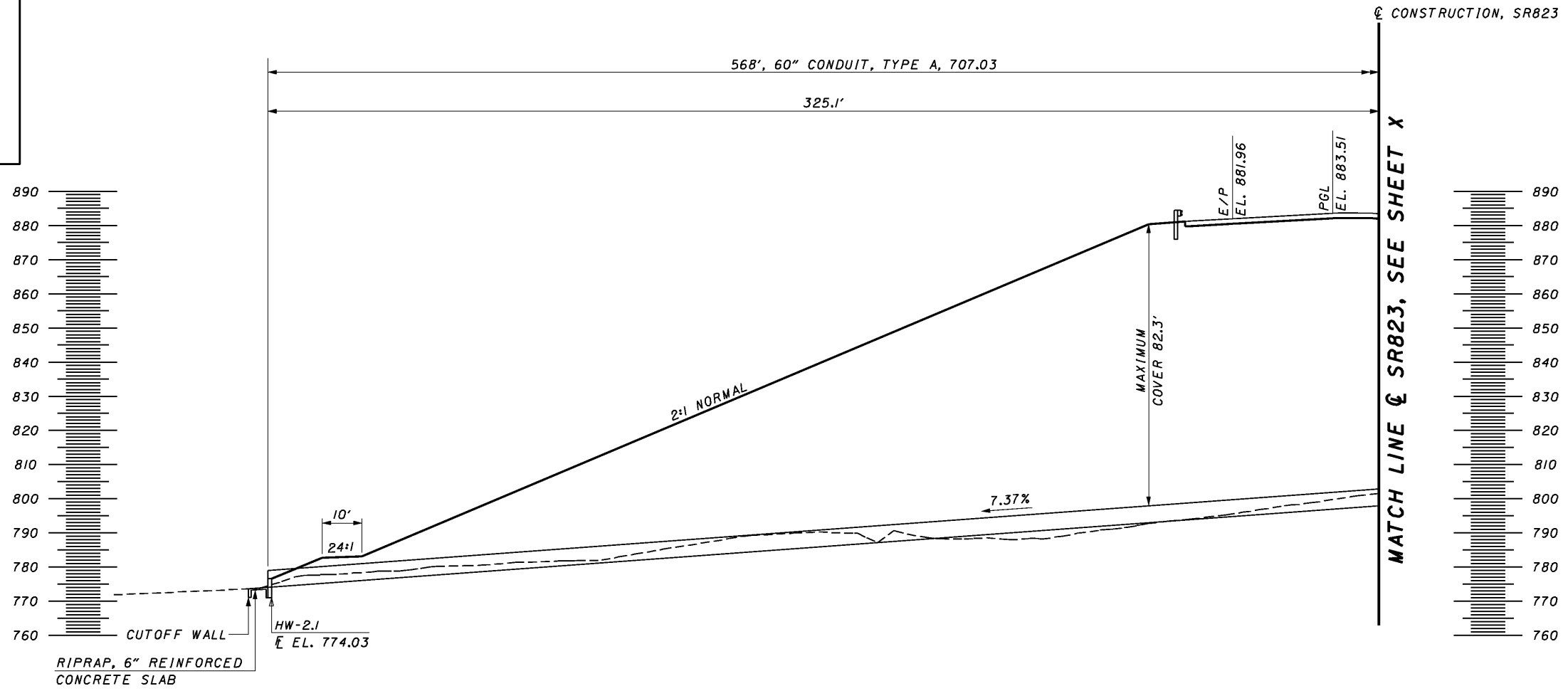
CULVERT DETAIL
SR823 STA. 723+50.00

SCI-823-10.13

3:04:33 PM 1/28/2008 g:\co03\0064\road\phase 2\79977dc74933a.sht



HYDRAULIC DESIGN DATA	
DRAINAGE AREA = 27.7 AC.	
Q_{50}	= 100.2 CFS
Q_{100}	= 121.0 CFS
HW_{50}	= 820.21
HW_{100}	= 820.84
V_{50}	= 15.5 FPS
V_{100}	= 16.3 FPS



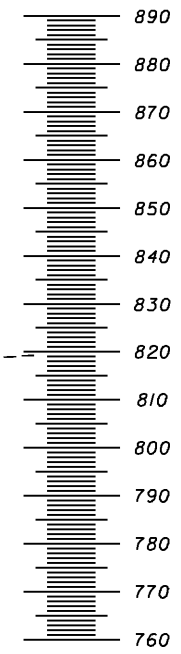
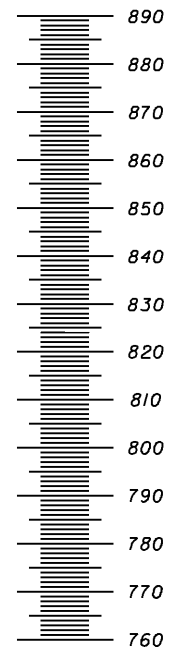
CALCULATED MDC
CHECKED RN

HORIZONTAL SCALE IN FEET

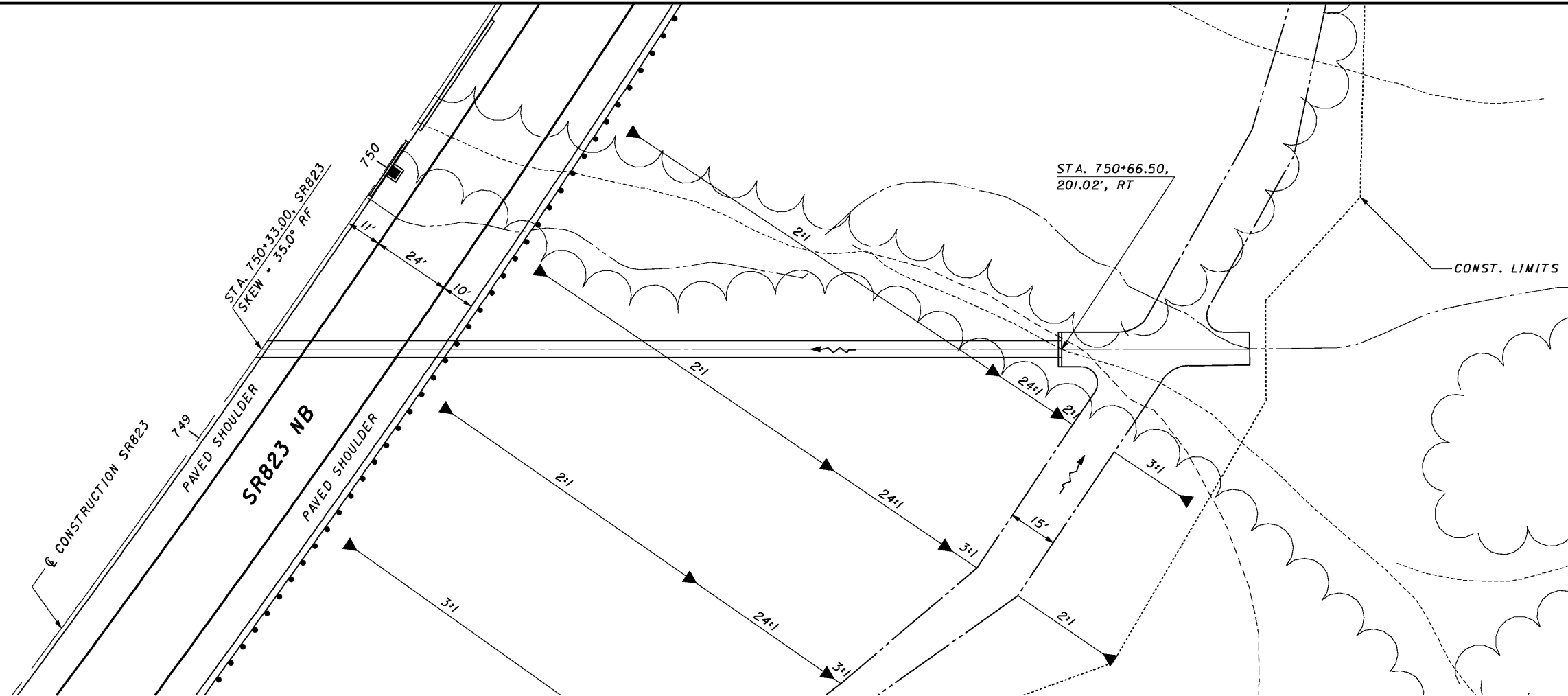
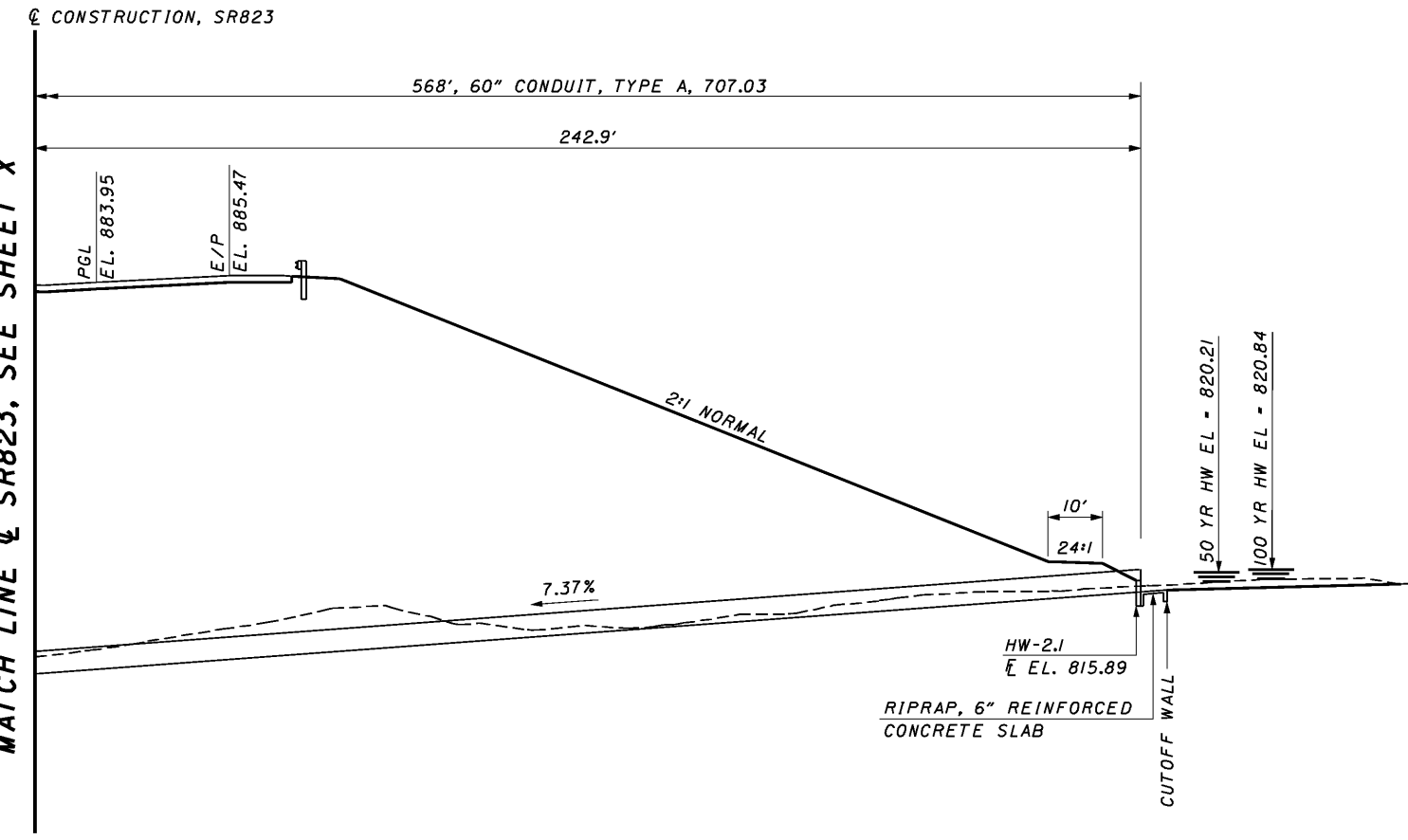
CULVERT DETAIL
SR823 STA. 749+33.00

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HYDRAULIC DESIGN DATA	
DRAINAGE AREA - 27.7 AC.	
Q_{50}	- 100.2 CFS
Q_{100}	- 121.0 CFS
HW_{50}	- 820.21
HW_{100}	- 820.84
V_{50}	- 15.5 FPS
V_{100}	- 16.3 FPS



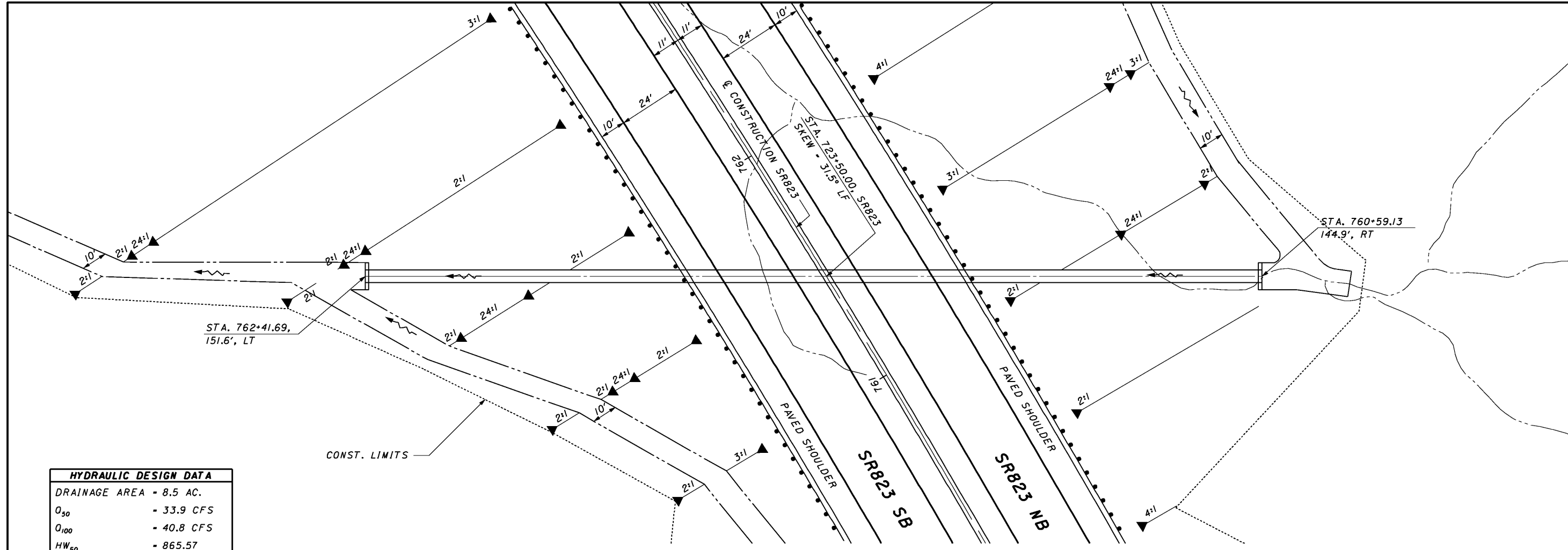
MATCH LINE @ SR823, SEE SHEET X



CALCULATED MDC
 CREATED RN

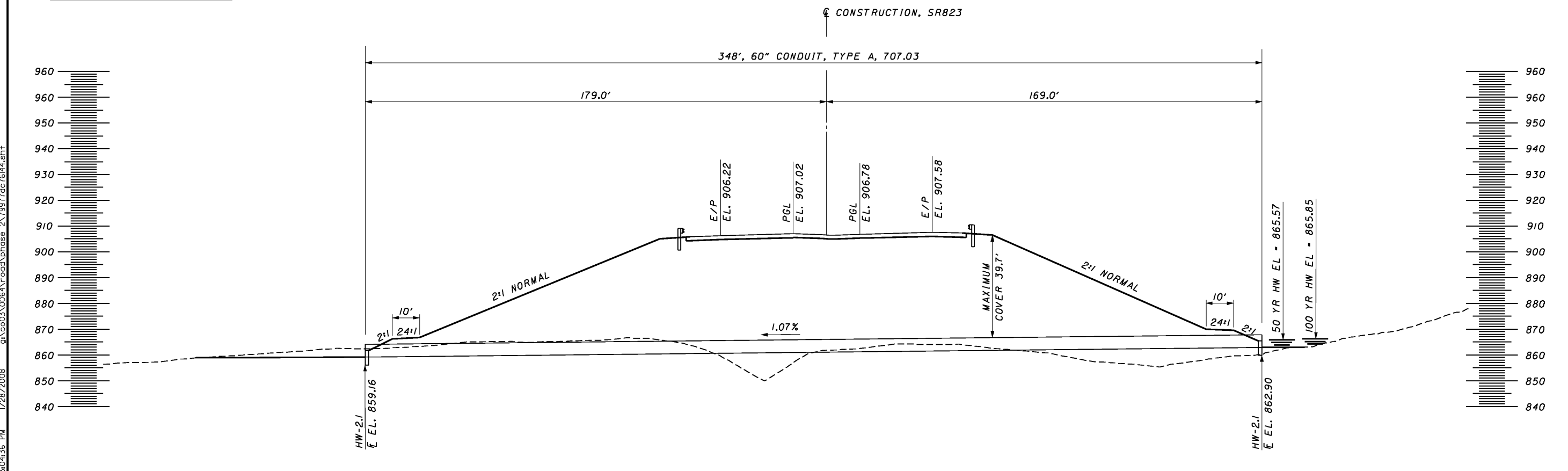
SCI-823-10.13

CULVERT DETAIL
 SR823 STA. 749+33.00

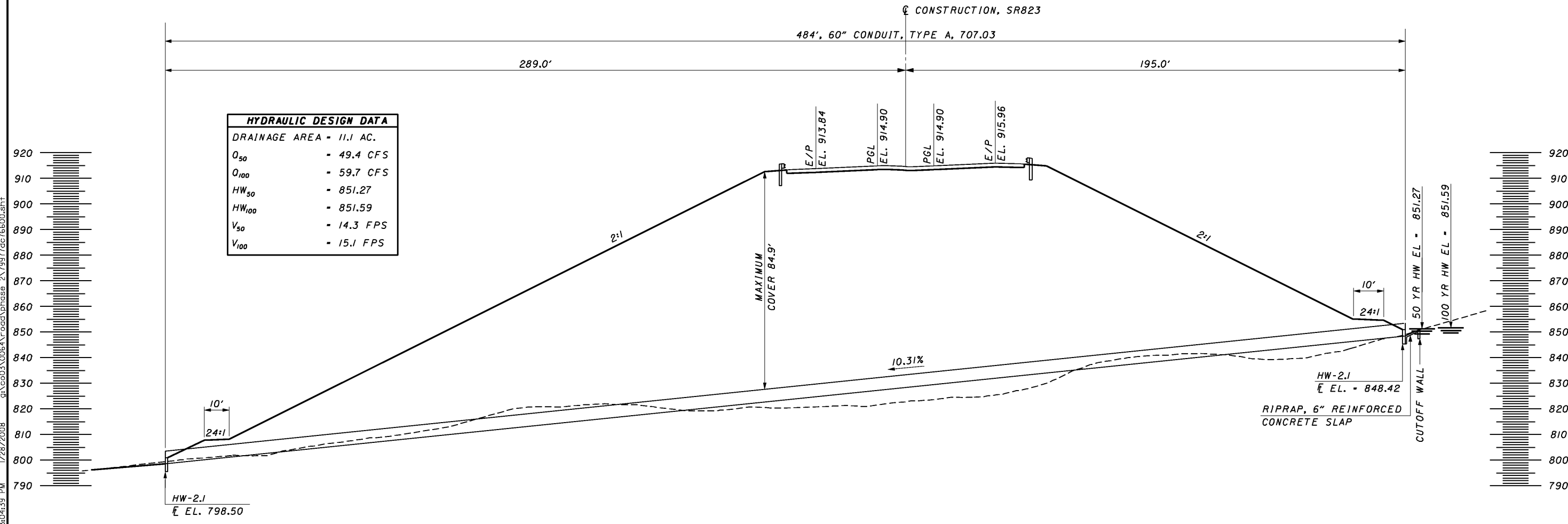
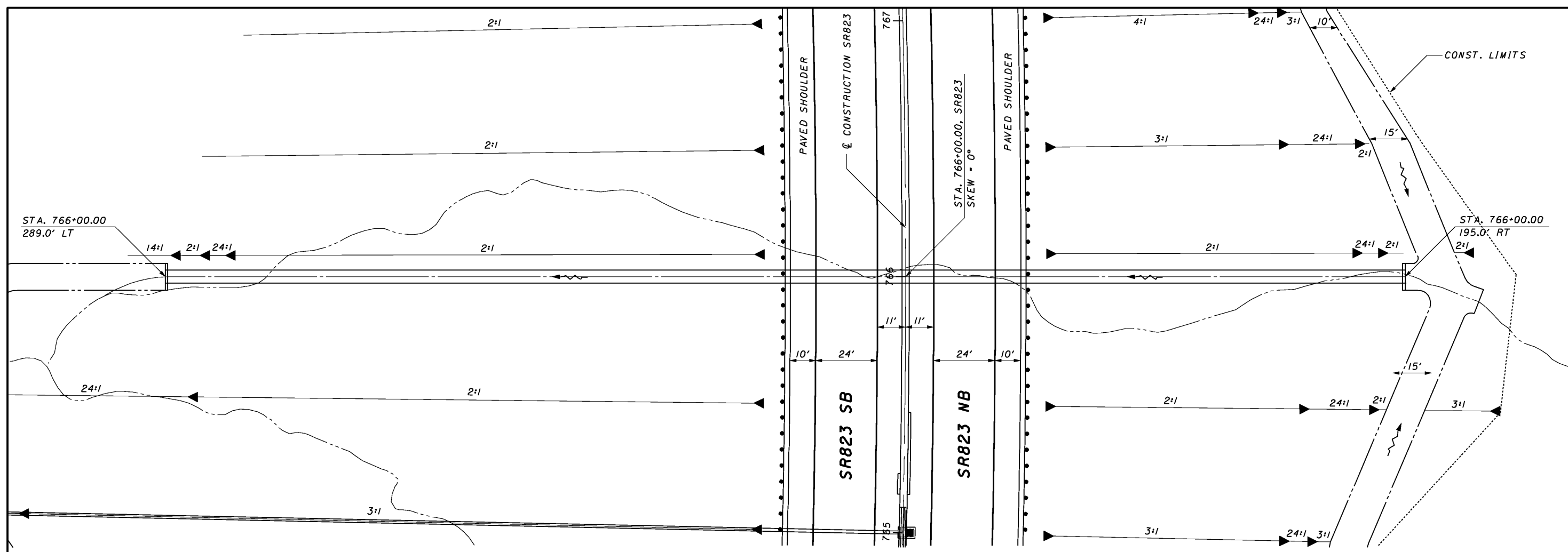


HYDRAULIC DESIGN DATA

DRAINAGE AREA - 8.5 AC.	
Q_{50}	- 33.9 CFS
Q_{100}	- 40.8 CFS
HW_{50}	- 865.57
HW_{100}	- 865.85
V_{50}	- 6.2 FPS
V_{100}	- 6.4 FPS



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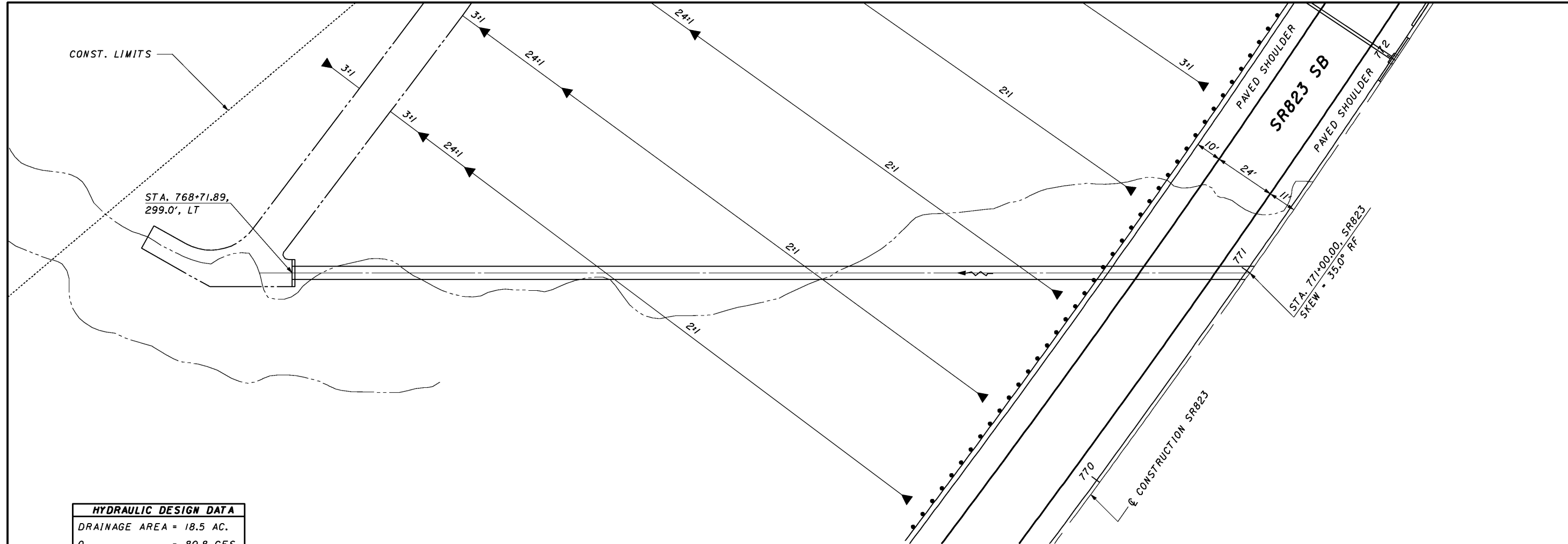
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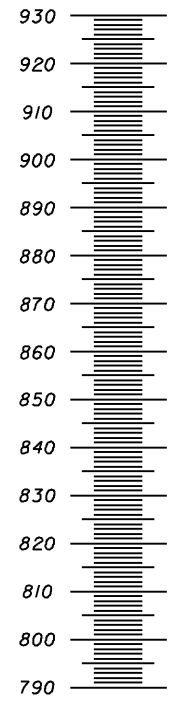
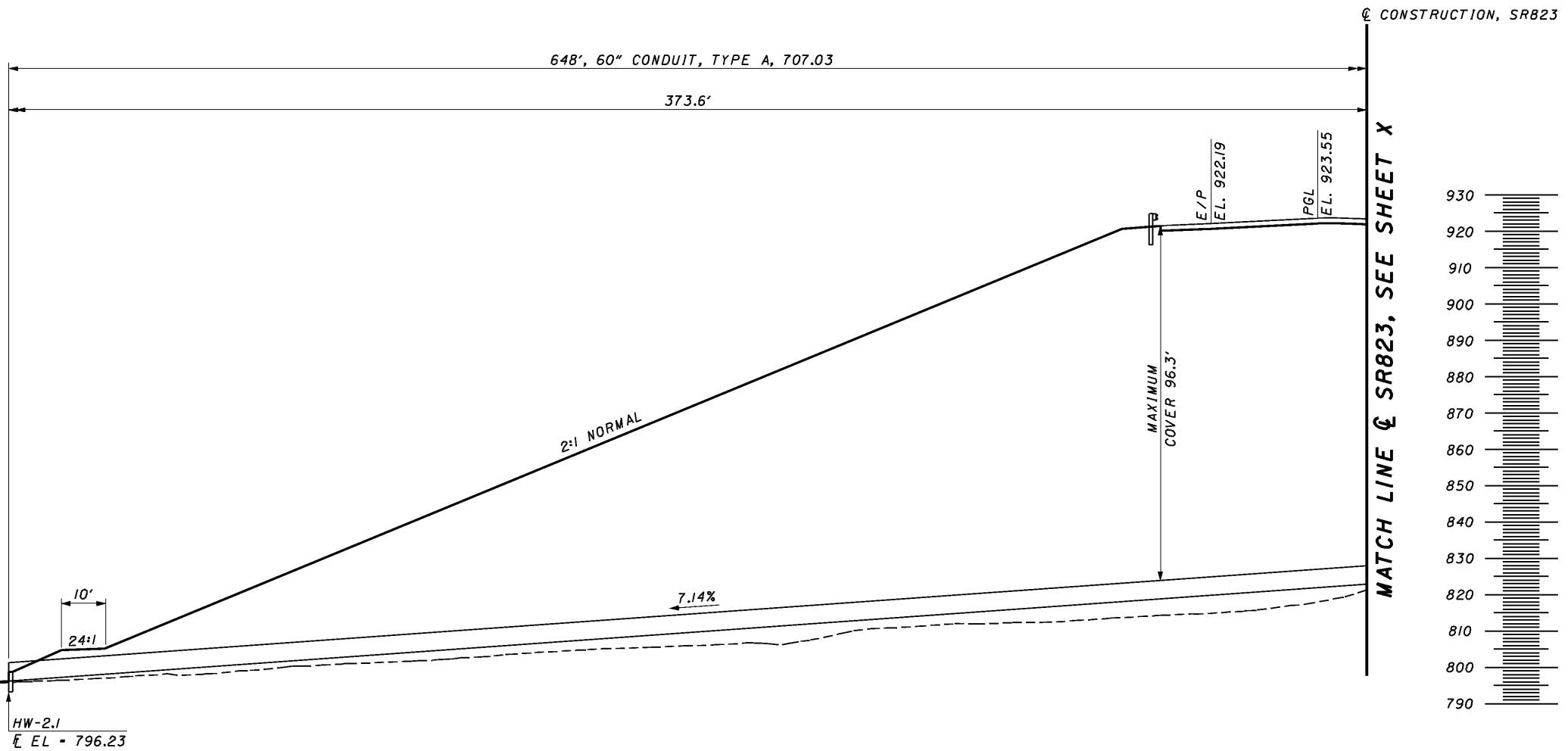
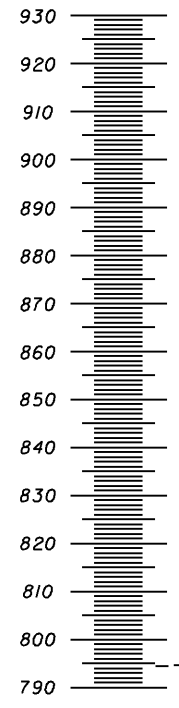
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CREATED RN

CULVERT DETAIL
SR823 STA. 771+00.00

SCI-823-10.13

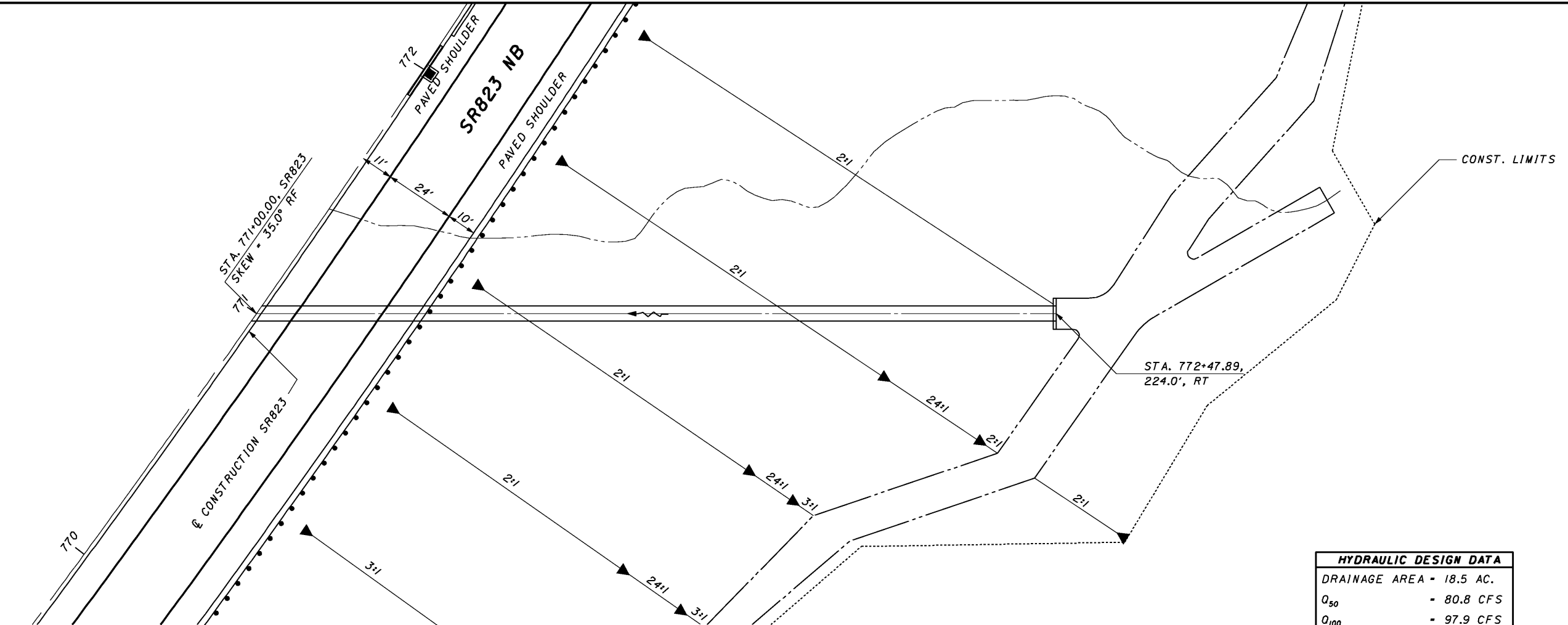


HYDRAULIC DESIGN DATA	
DRAINAGE AREA = 18.5 AC.	
Q_{50}	- 80.8 CFS
Q_{100}	- 97.9 CFS
HW_{50}	- 846.27
HW_{100}	- 846.75
V_{50}	- 14.4 FPS
V_{100}	- 15.2 FPS



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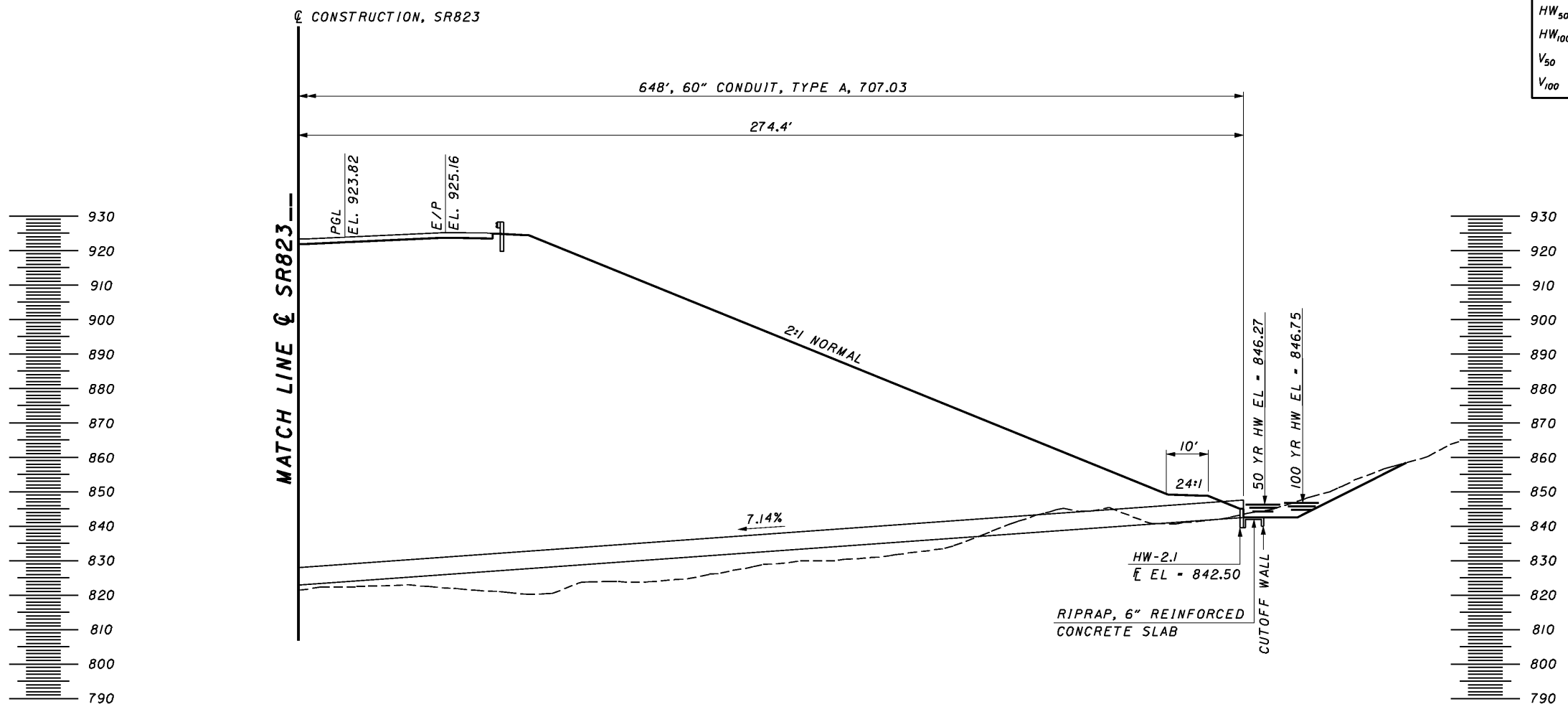


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 HORIZONTAL SCALE IN FEET

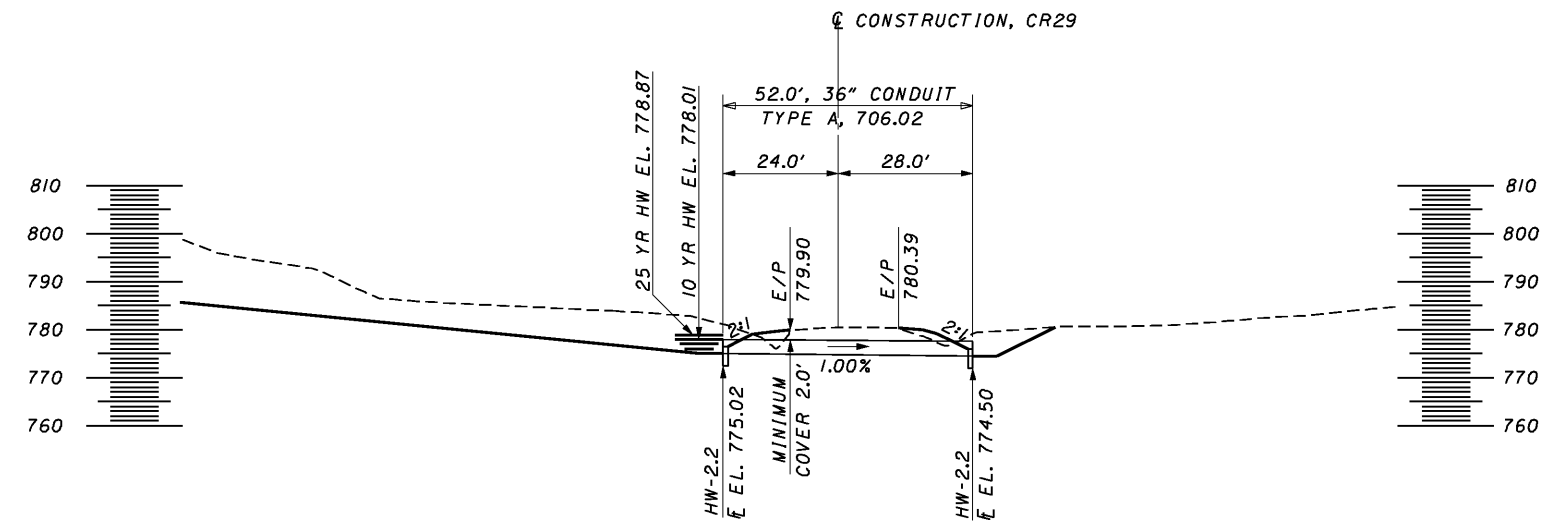
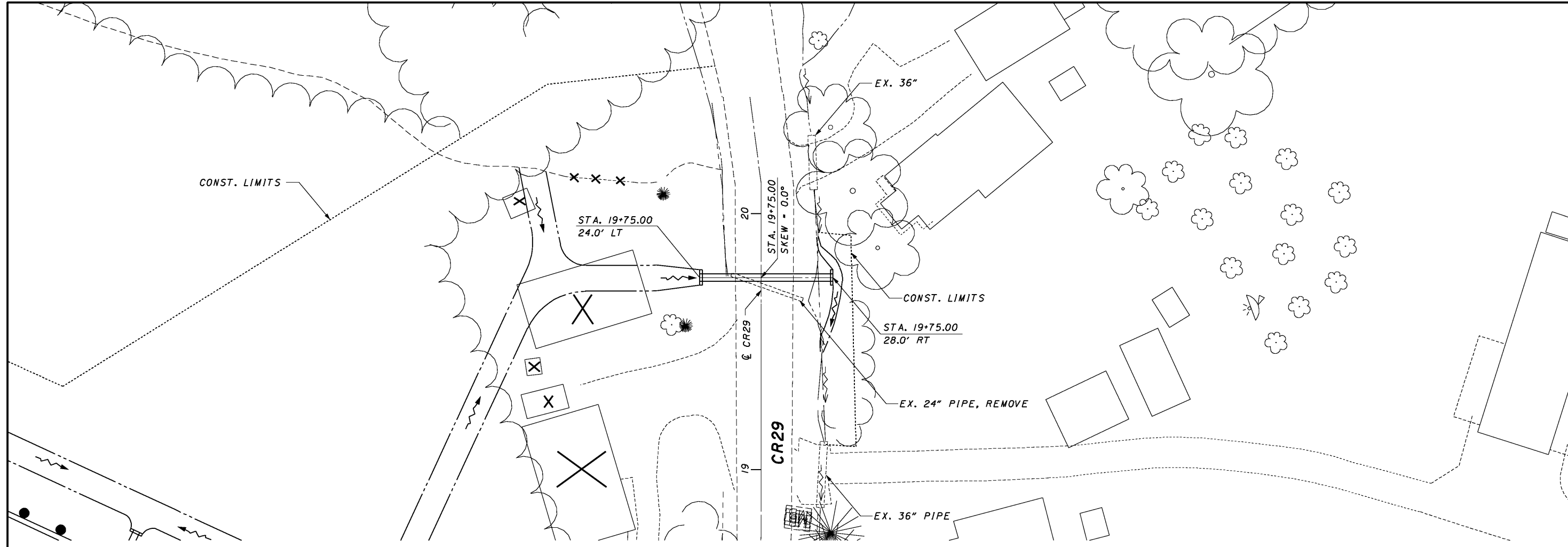
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HYDRAULIC DESIGN DATA	
DRAINAGE AREA = 18.5 AC.	
Q_{50}	= 80.8 CFS
Q_{100}	= 97.9 CFS
HW_{50}	= 846.27
HW_{100}	= 846.75
V_{50}	= 14.4 FPS
V_{100}	= 15.2 FPS



CULVERT DETAIL
SR823 STA. 771+00.00

SCI-823-10.13

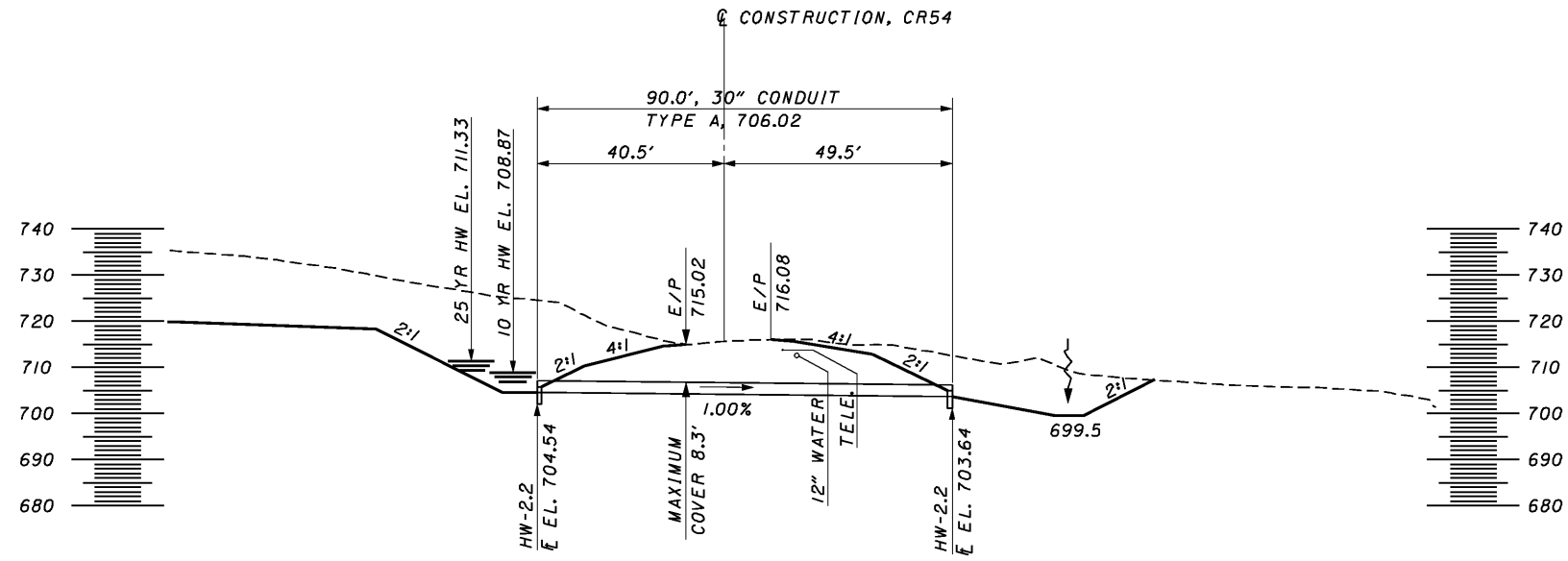
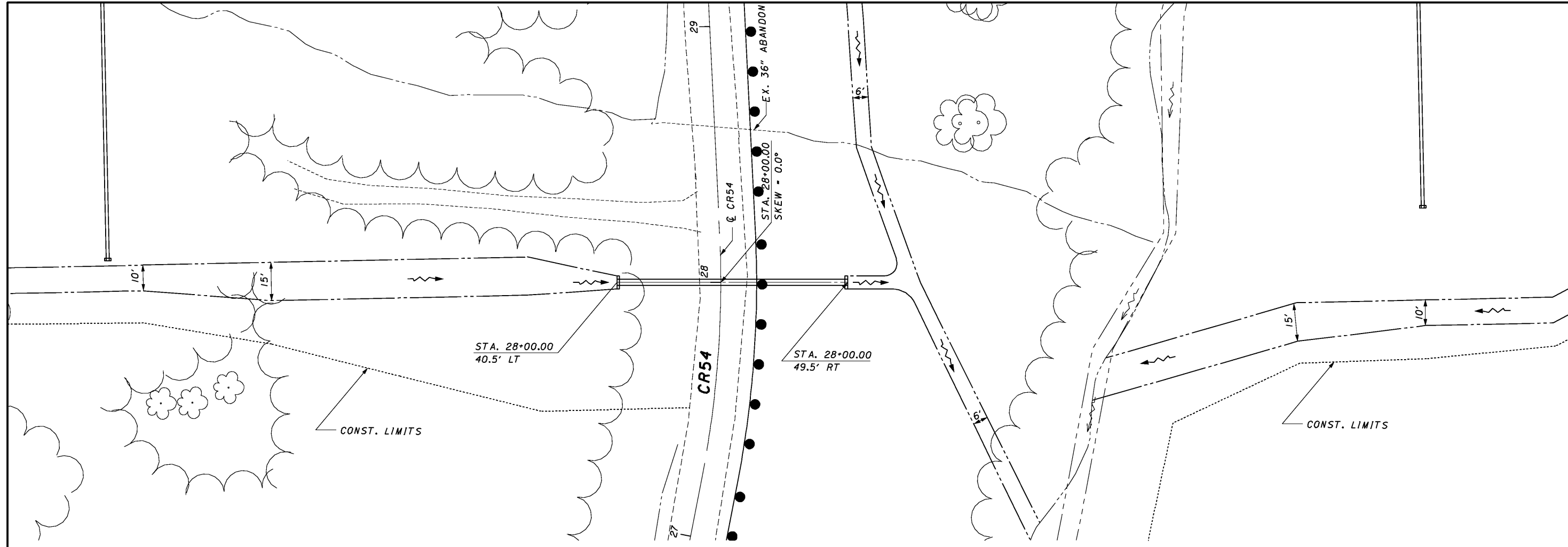


HYDRAULIC DESIGN DATA	
DRAINAGE AREA - 32.0 AC.	
Q_{10}	- 38.1 CFS
Q_{25}	- 53.2 CFS
HW_{10}	- 778.01
HW_{25}	- 778.87
V_{10}	- 10.4 FPS
V_{25}	- 11.2 FPS

CALCULATED DL
CHECKED RN

HORIZONTAL SCALE IN FEET

CULVERT DETAIL
CR29 STA. 19+75.00



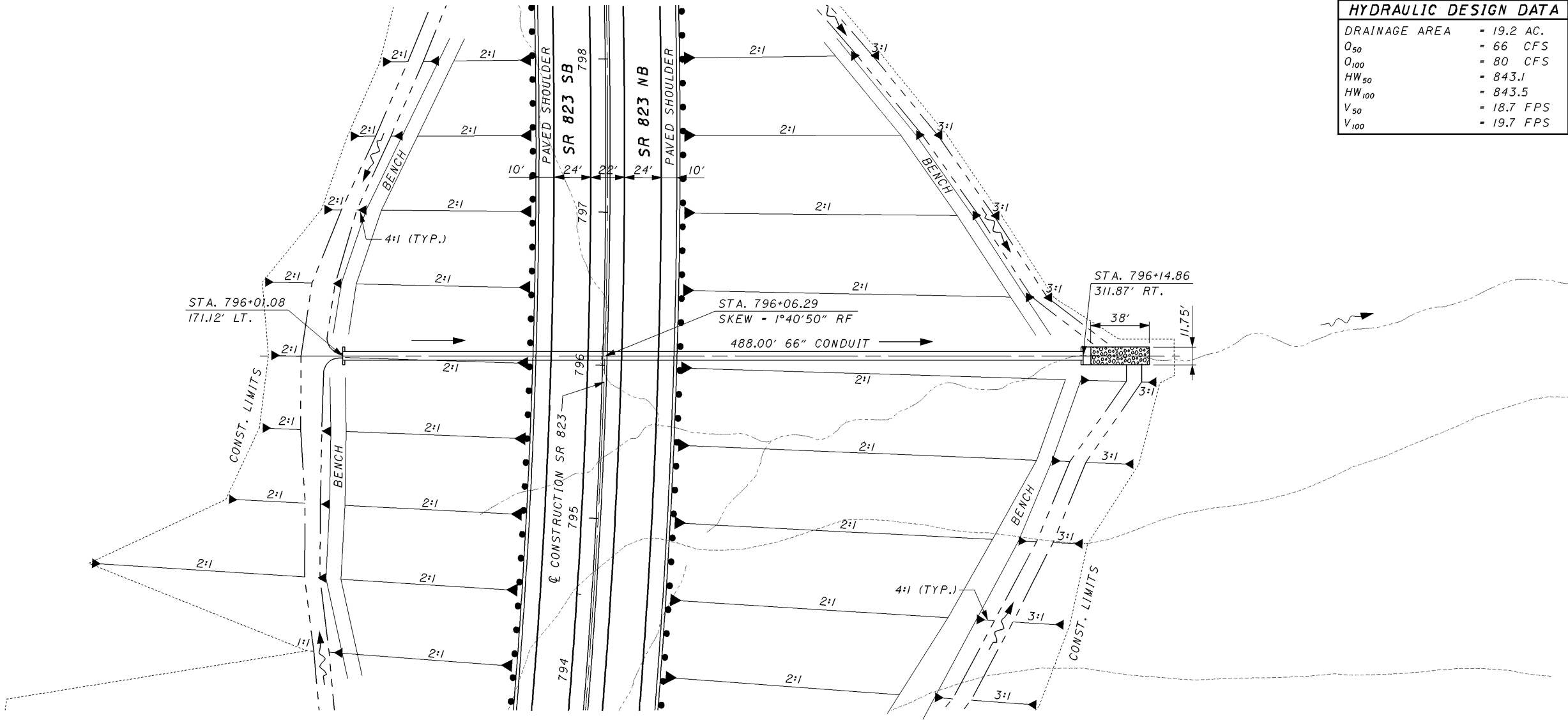
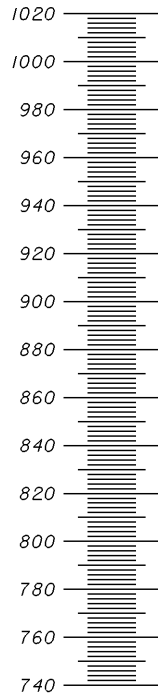
HYDRAULIC DESIGN DATA	
DRAINAGE AREA = 36.6 AC.	
Q_{10}	= 44.9 CFS
Q_{25}	= 62.9 CFS
HW_{10}	= 708.87
HW_{25}	= 711.33
V_{10}	= 10.3 FPS
V_{25}	= 12.8 FPS

CALCULATED DL
 CHECKED RN

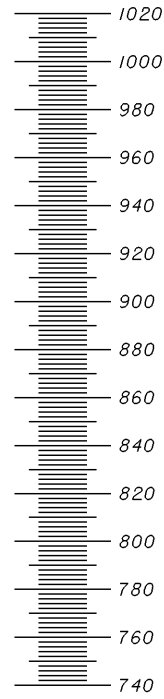
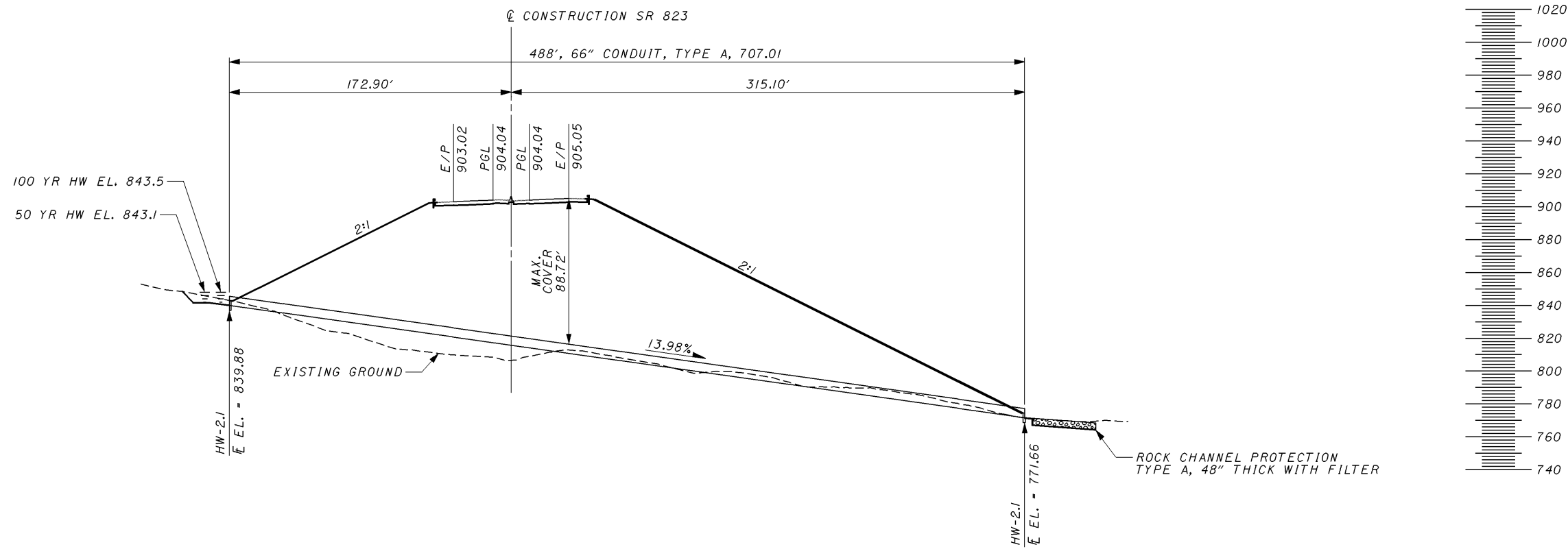
HORIZONTAL SCALE IN FEET

CULVERT DETAIL
CR54 STA. 28+00.00

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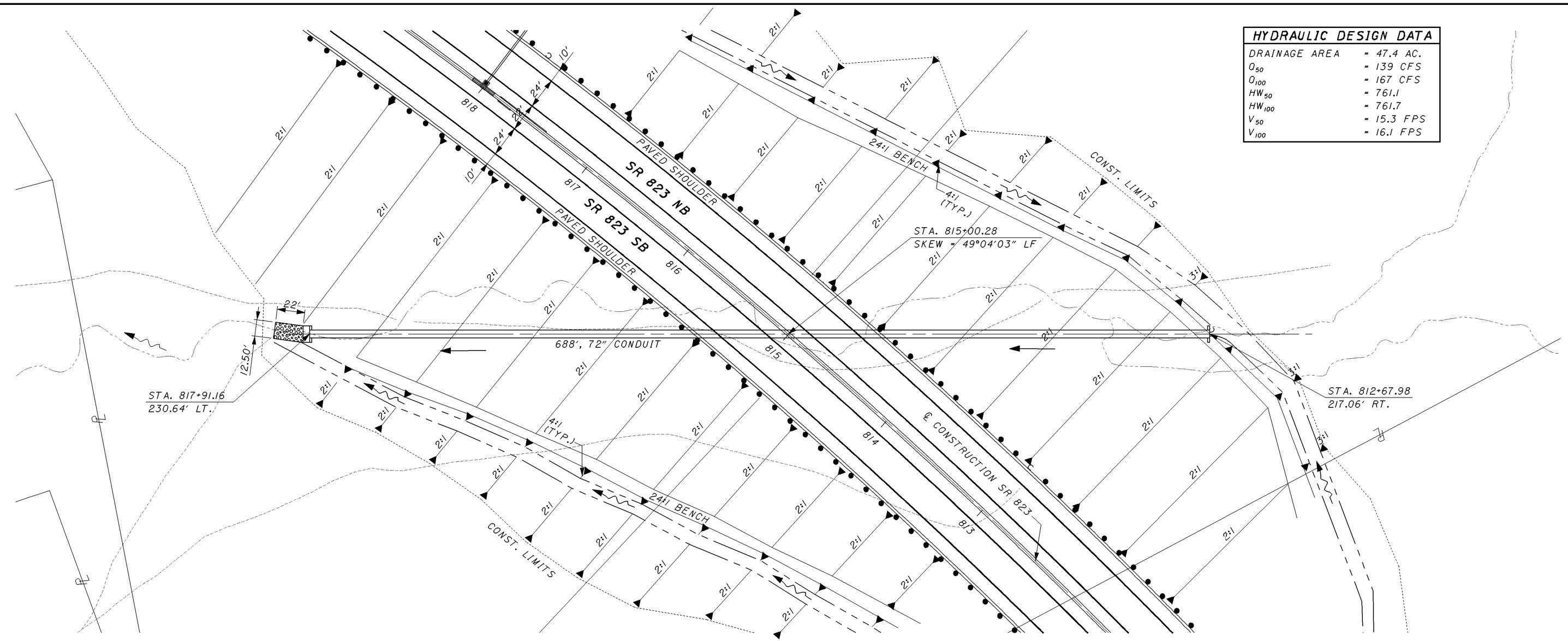
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DRAINAGE AREA	= 19.2 AC.
Q_{50}	= 66 CFS
Q_{100}	= 80 CFS
HW_{50}	= 843.1
HW_{100}	= 843.5
V_{50}	= 18.7 FPS
V_{100}	= 19.7 FPS



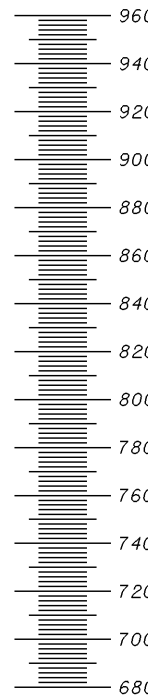
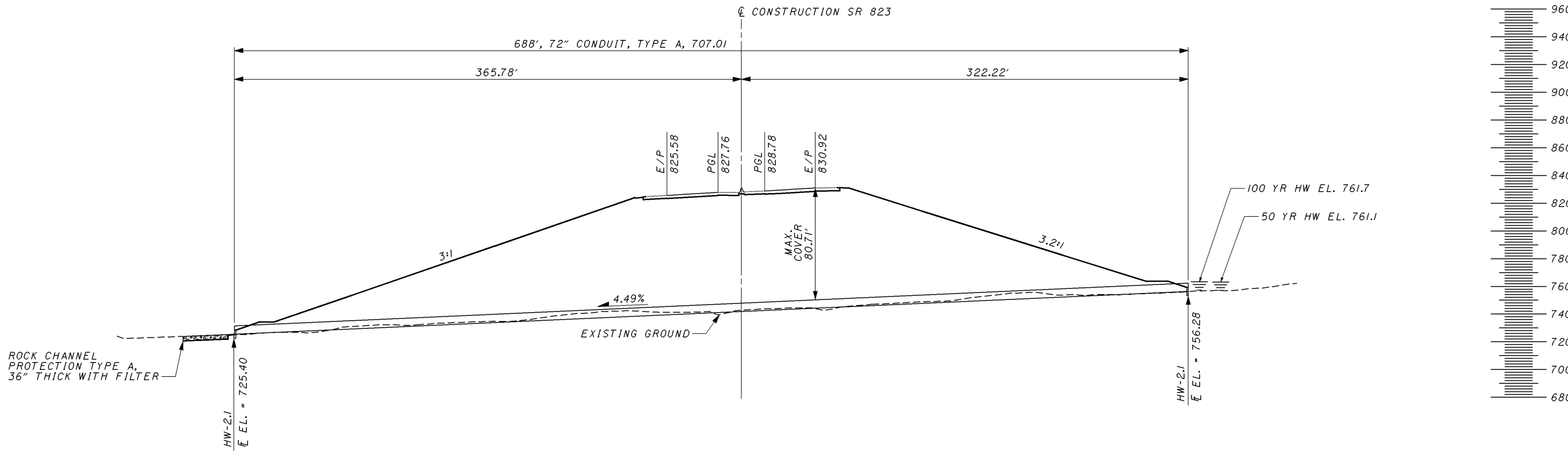
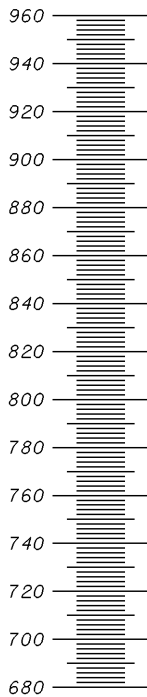
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SR 823 STA. 796+06.29

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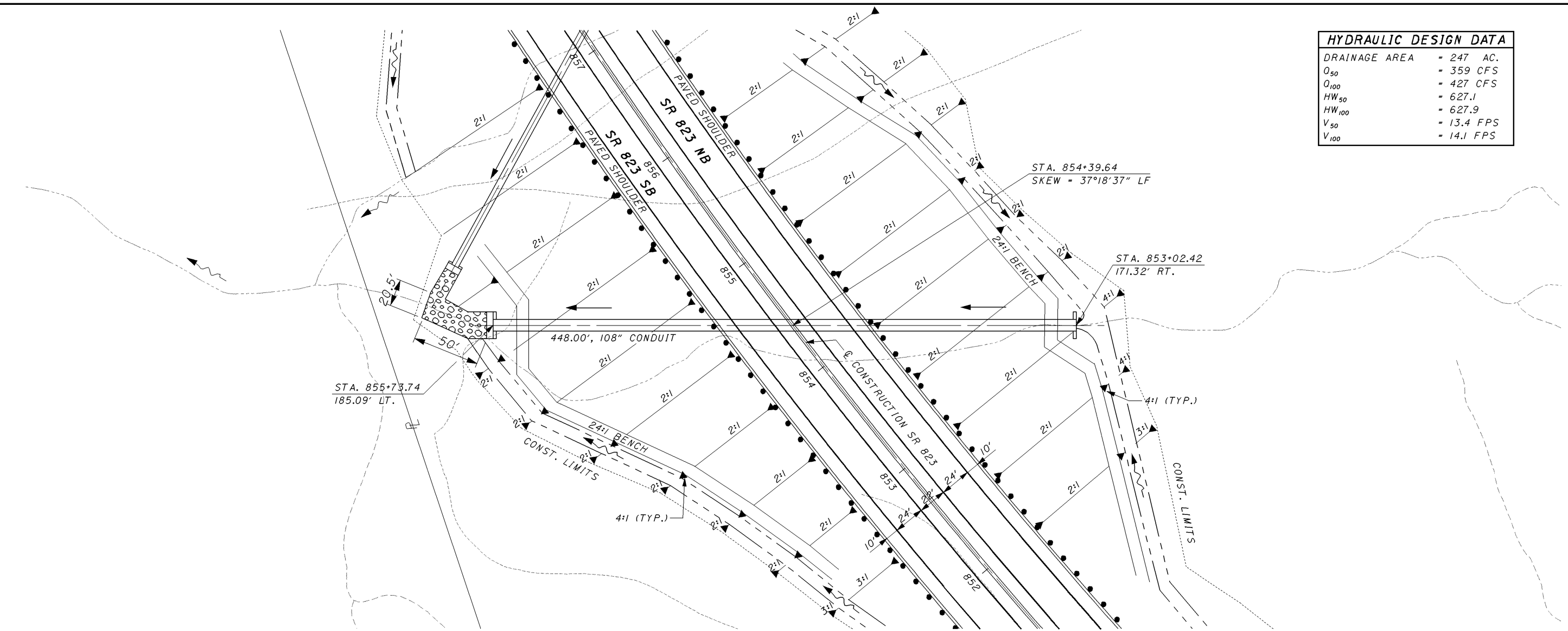
HYDRAULIC DESIGN DATA	
DRAINAGE AREA	= 47.4 AC.
Q_{50}	= 139 CFS
Q_{100}	= 167 CFS
HW_{50}	= 761.1
HW_{100}	= 761.7
V_{50}	= 15.3 FPS
V_{100}	= 16.1 FPS



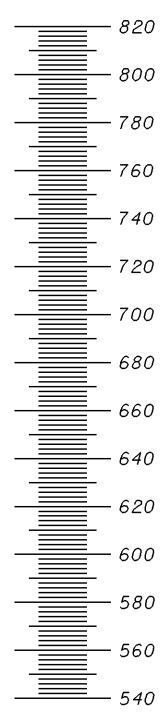
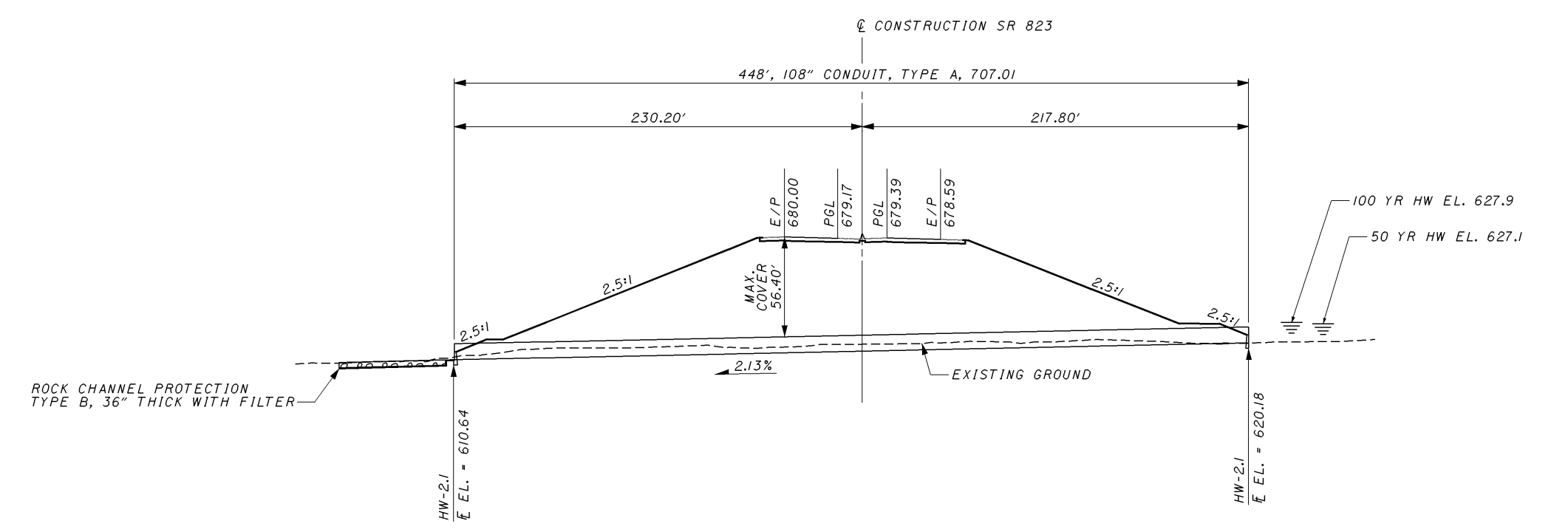
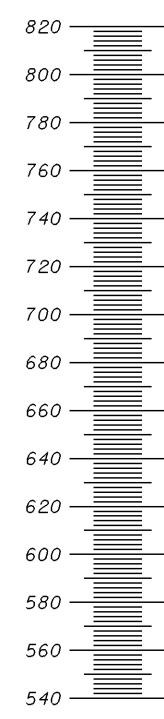
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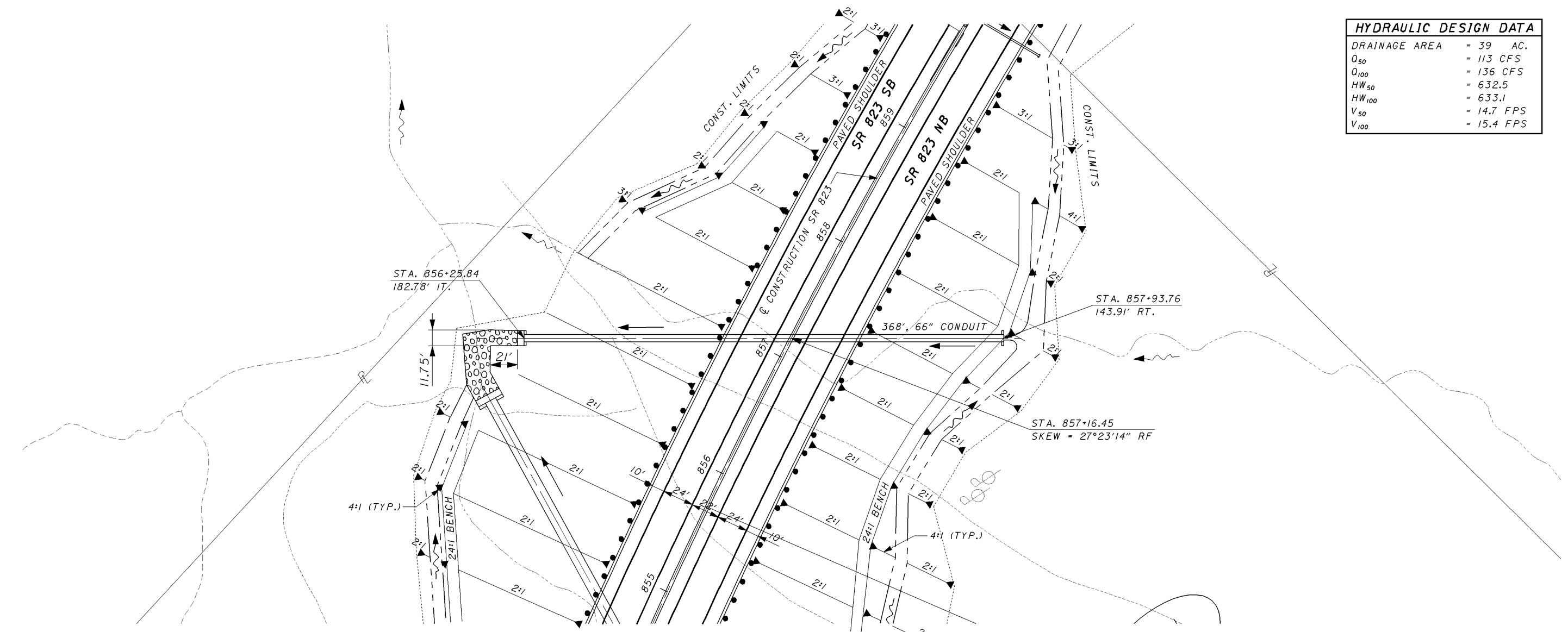
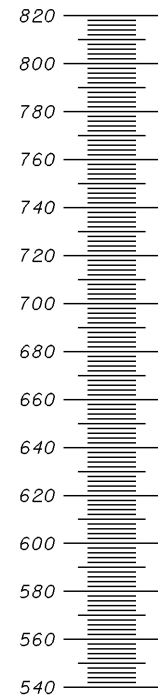


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SR 823 STA. 854+39.64

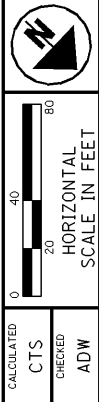


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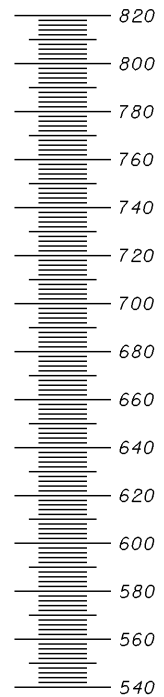
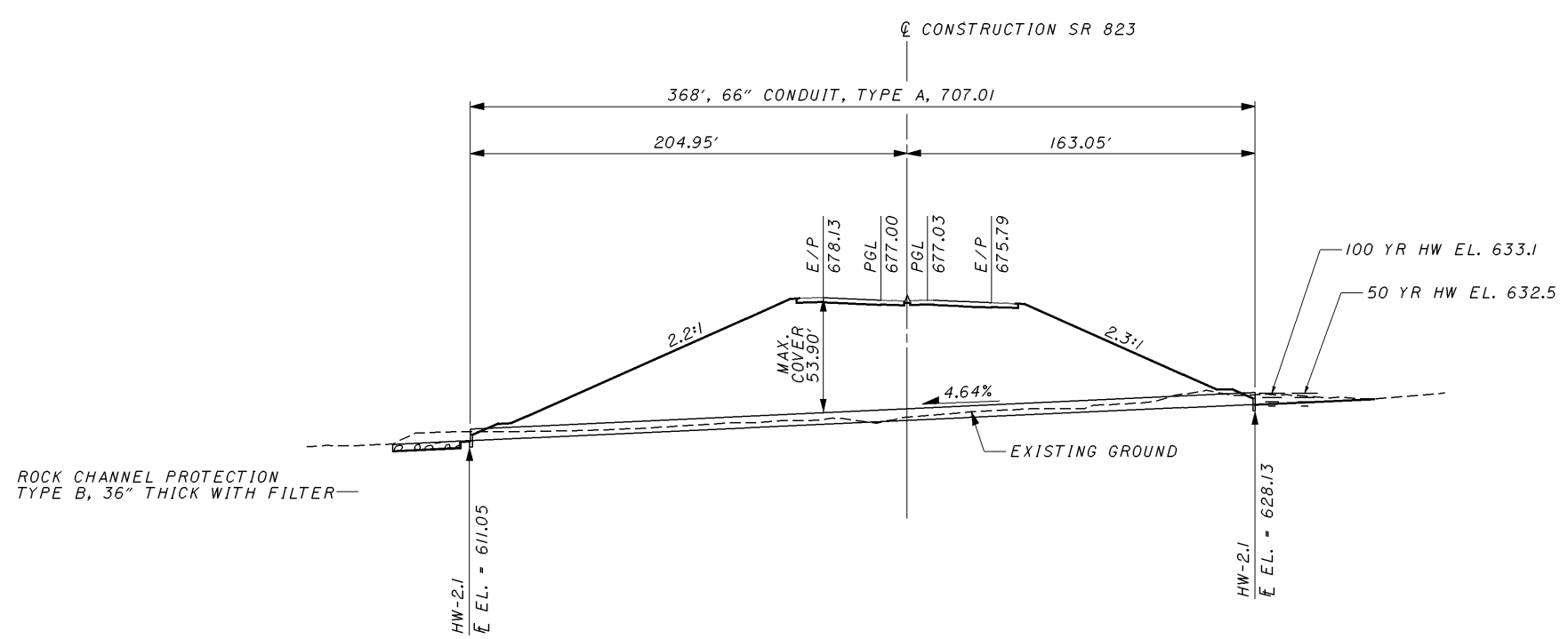
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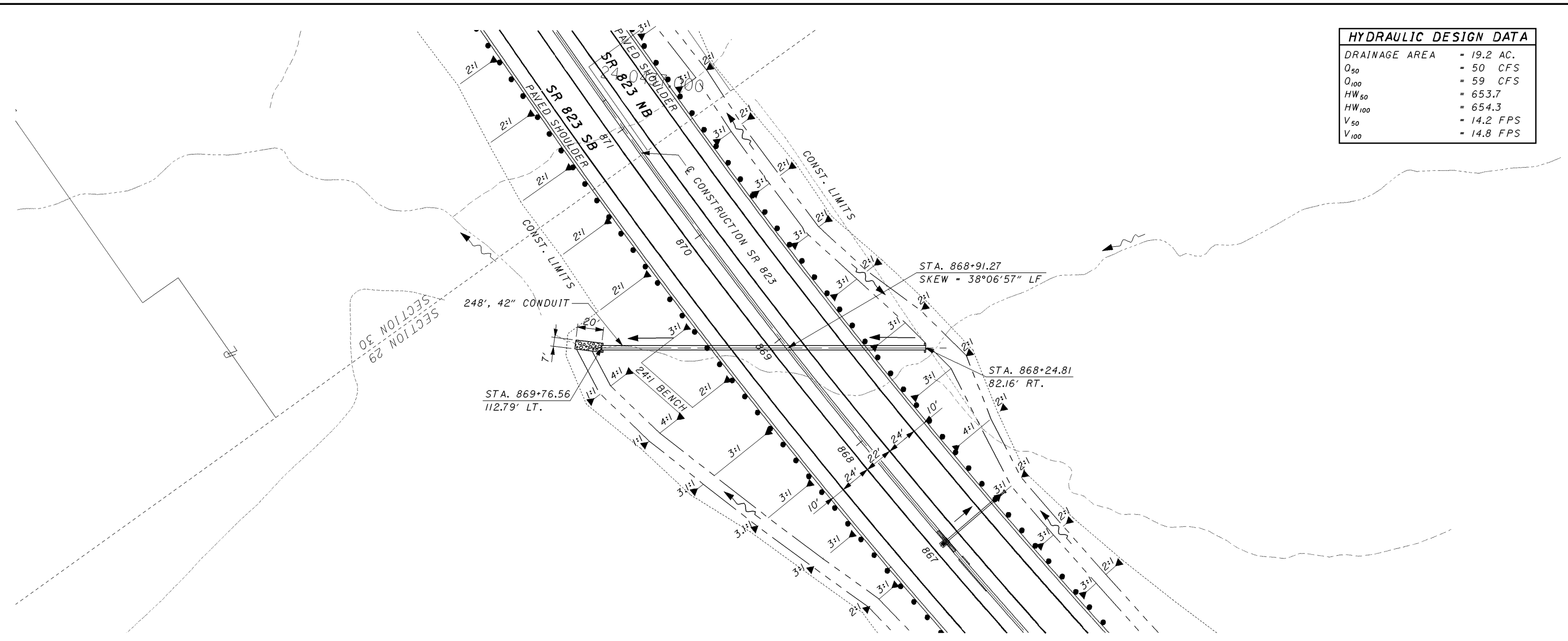
HYDRAULIC DESIGN DATA	
DRAINAGE AREA	= 39 AC.
Q_{50}	= 113 CFS
Q_{100}	= 136 CFS
HW ₅₀	= 632.5
HW ₁₀₀	= 633.1
V ₅₀	= 14.7 FPS
V ₁₀₀	= 15.4 FPS



CULVERT DETAIL
SR 823 STA. 857+16.49



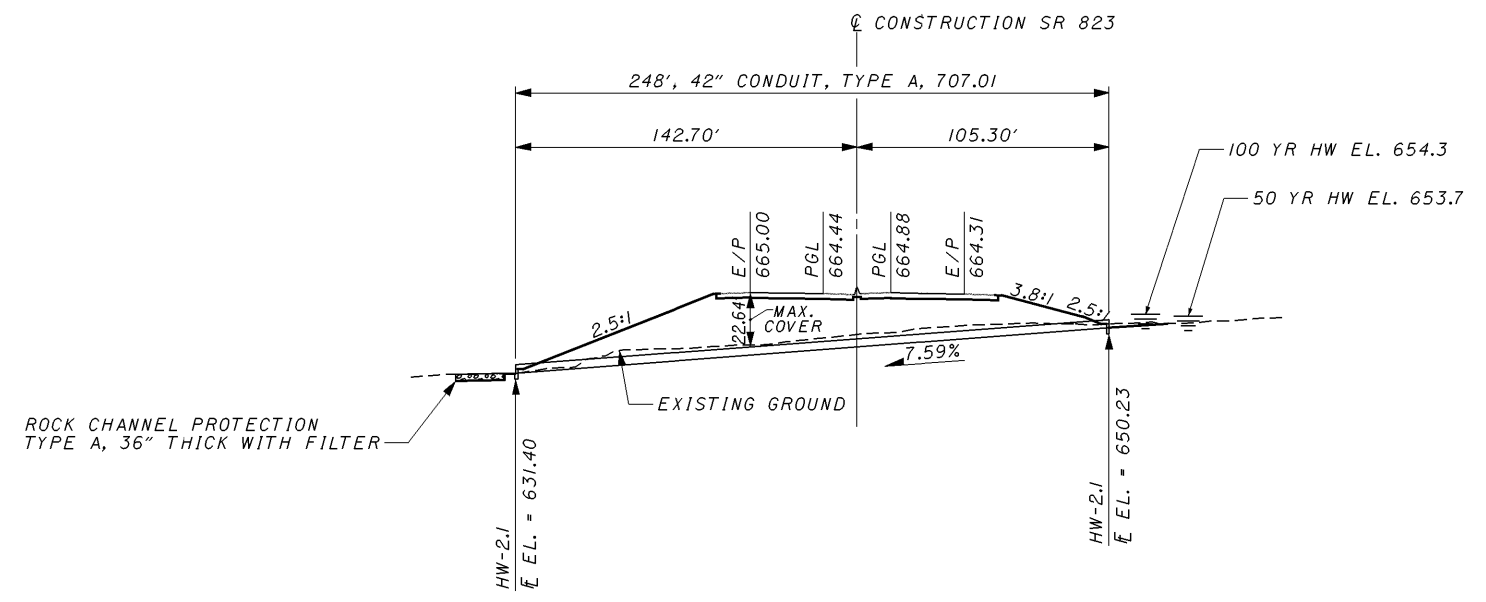
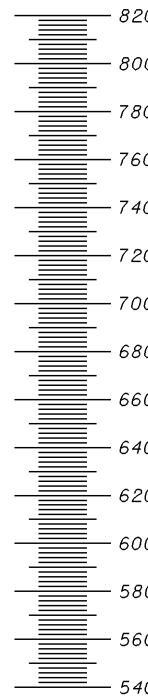
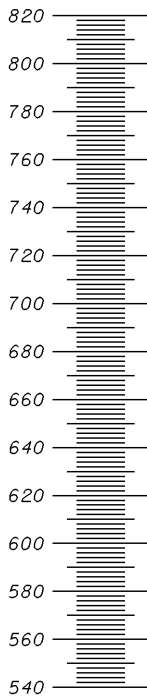
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HYDRAULIC DESIGN DATA	
DRAINAGE AREA	= 19.2 AC.
Q_{50}	= 50 CFS
Q_{100}	= 59 CFS
HW_{50}	= 653.7
HW_{100}	= 654.3
V_{50}	= 14.2 FPS
V_{100}	= 14.8 FPS

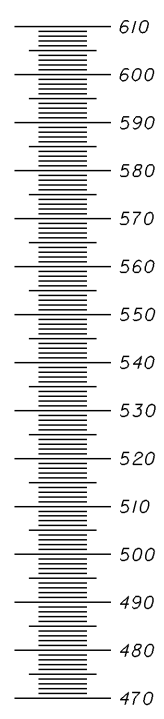
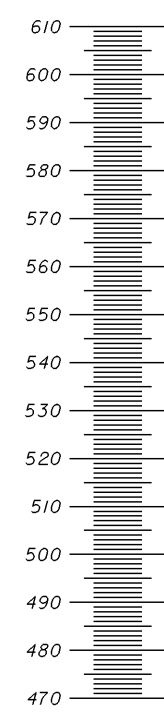
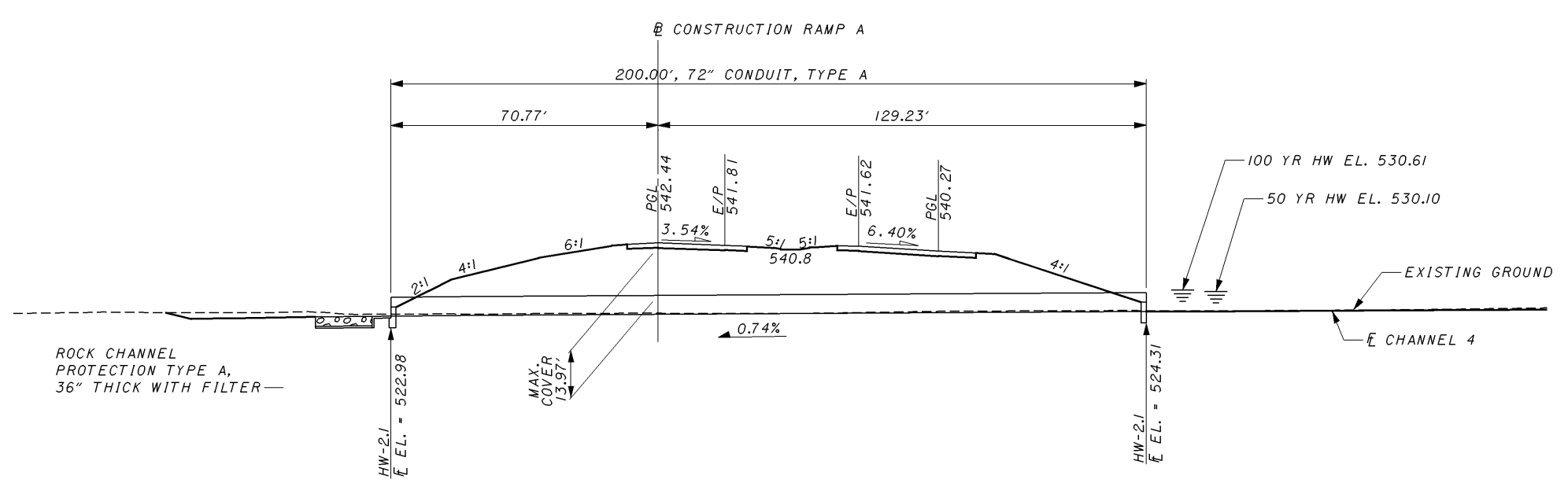
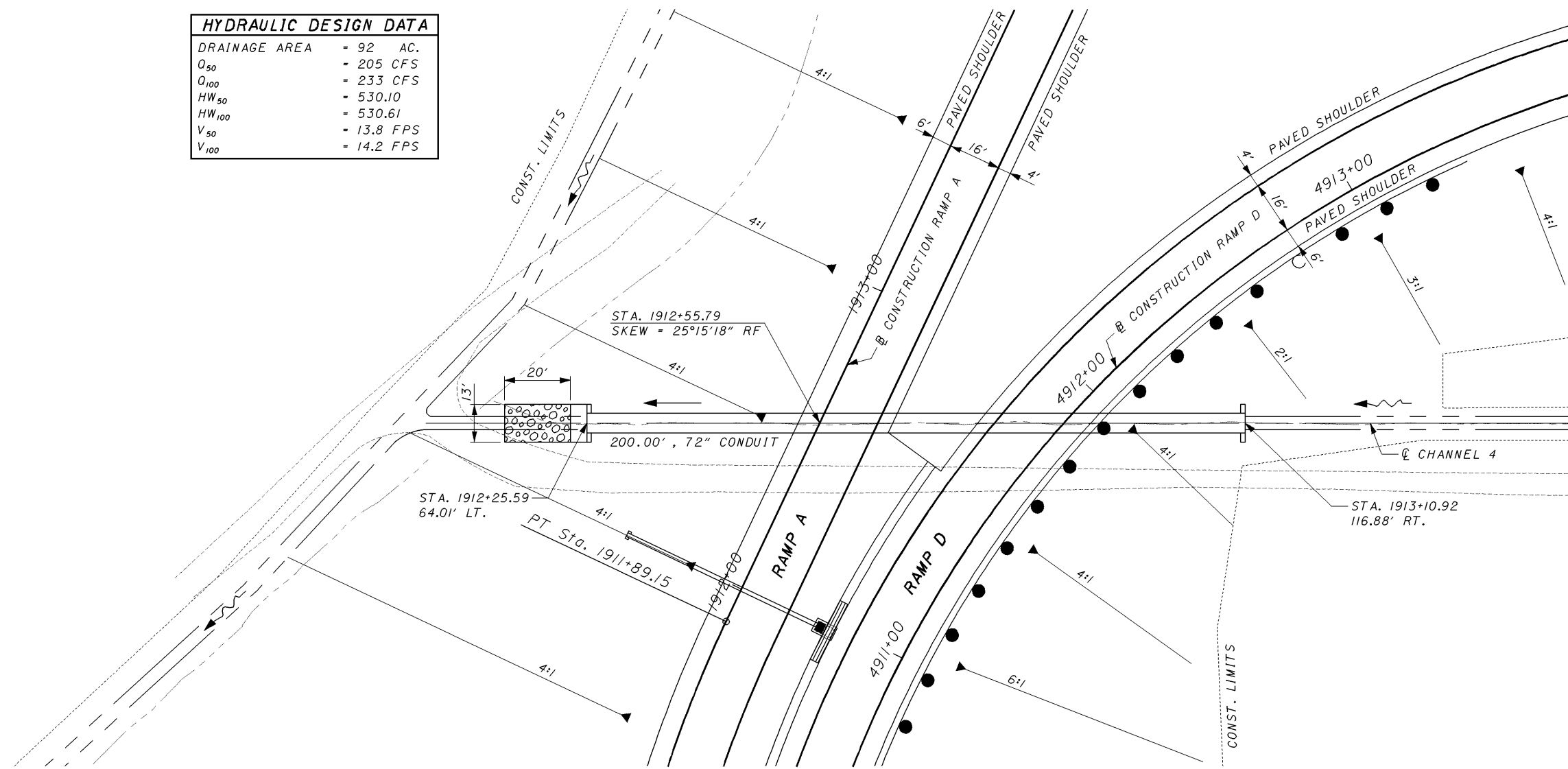


CULVERT DETAIL
SR 823 STA. 868+91.27



SCI-823-10.13

HYDRAULIC DESIGN DATA	
DRAINAGE AREA	= 92 AC.
Q_{50}	= 205 CFS
Q_{100}	= 233 CFS
HW_{50}	= 530.10
HW_{100}	= 530.61
V_{50}	= 13.8 FPS
V_{100}	= 14.2 FPS



CULVERT DETAIL
RAMP A STA. 1912+55.79

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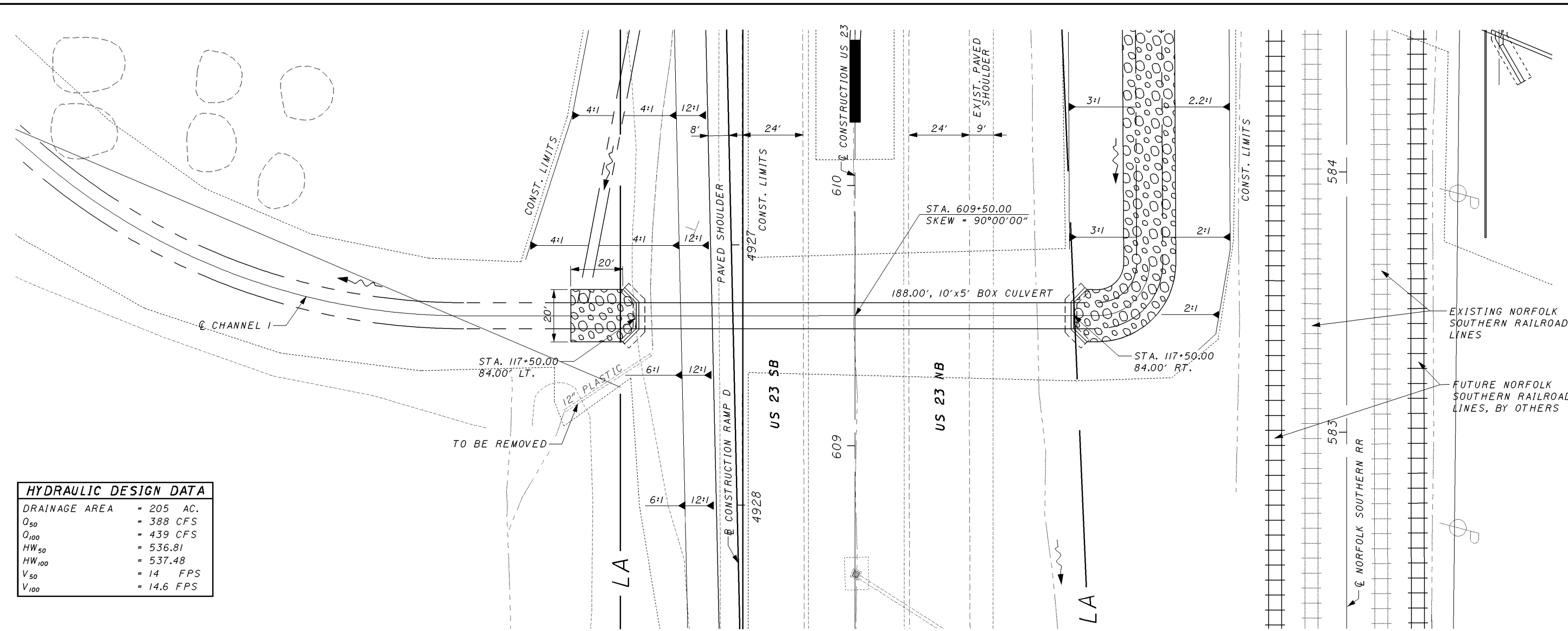
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HORIZONTAL
SCALE IN FEET

CALCULATED
CTS
CHECKED
ADW

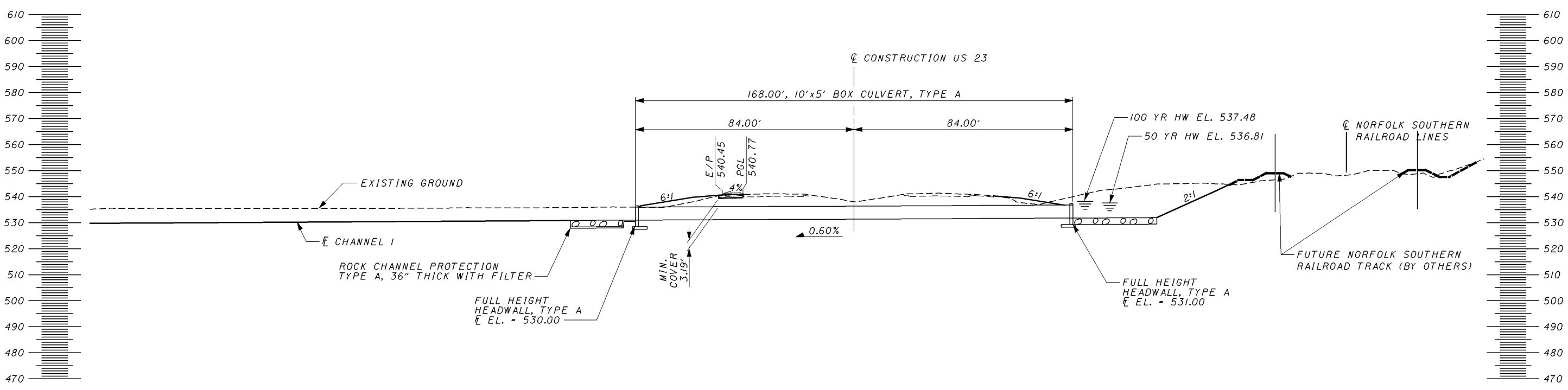
CULVERT DETAIL US 23 STA. 609+50.00

SCI-823-10.13

755



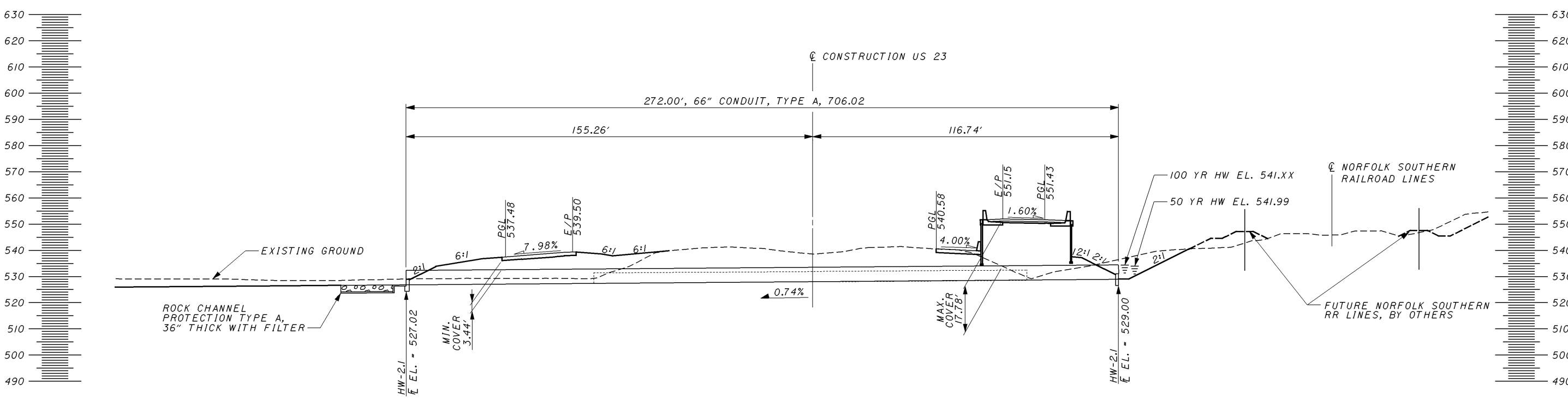
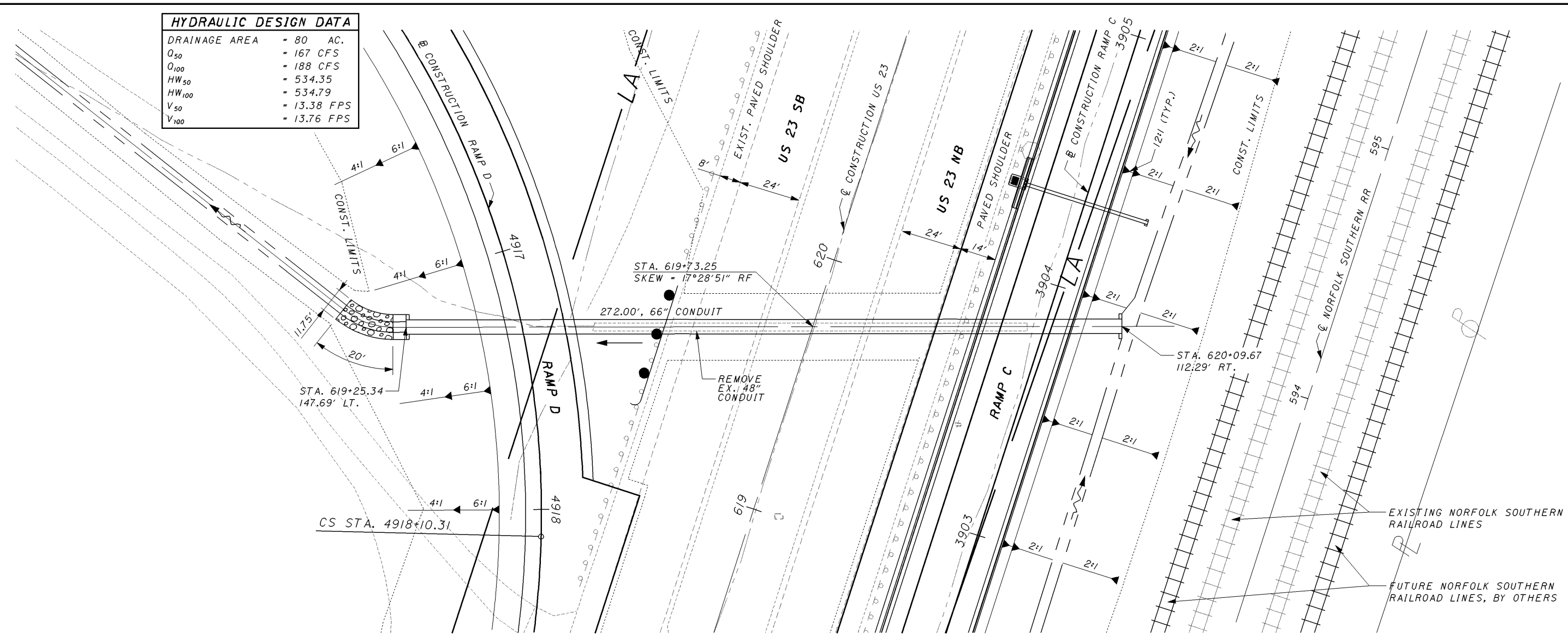
HYDRAULIC DESIGN DATA	
DRAINAGE AREA	= 205 AC.
Q_{50}	= 388 CFS
Q_{100}	= 439 CFS
HW_{50}	= 536.81
HW_{100}	= 537.48
V_{50}	= 14 FPS
V_{100}	= 14.6 FPS



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HYDRAULIC DESIGN DATA

DRAINAGE AREA	= 80 AC.
Q_{50}	= 167 CFS
Q_{100}	= 188 CFS
HW_{50}	= 534.35
HW_{100}	= 534.79
V_{50}	= 13.38 FPS
V_{100}	= 13.76 FPS



HORIZONTAL SCALE IN FEET

CALCULATED	CTS
CHECKED	ADW

CULVERT DETAIL
US 23 STA. 619+73.25

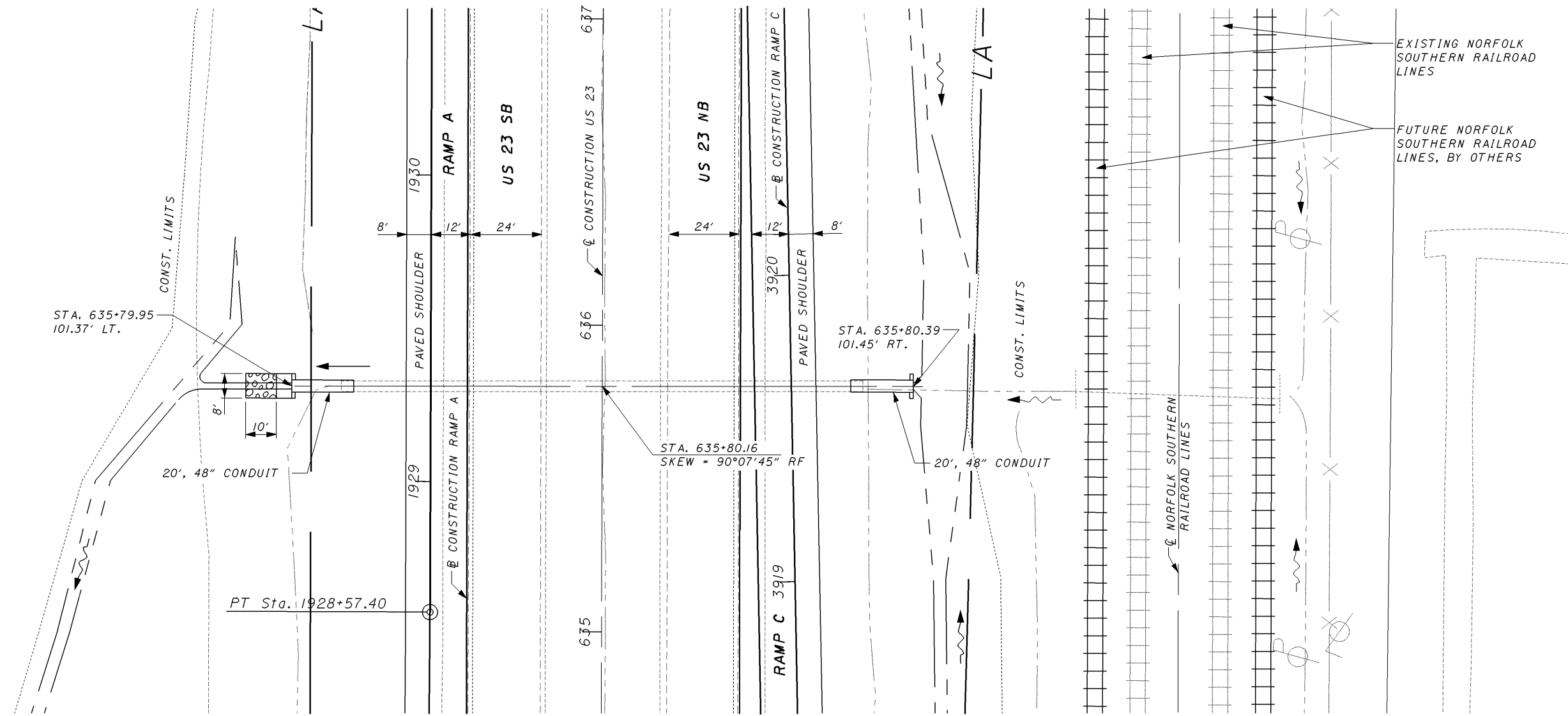
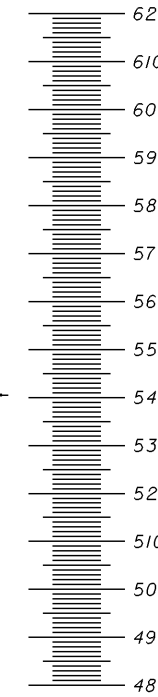
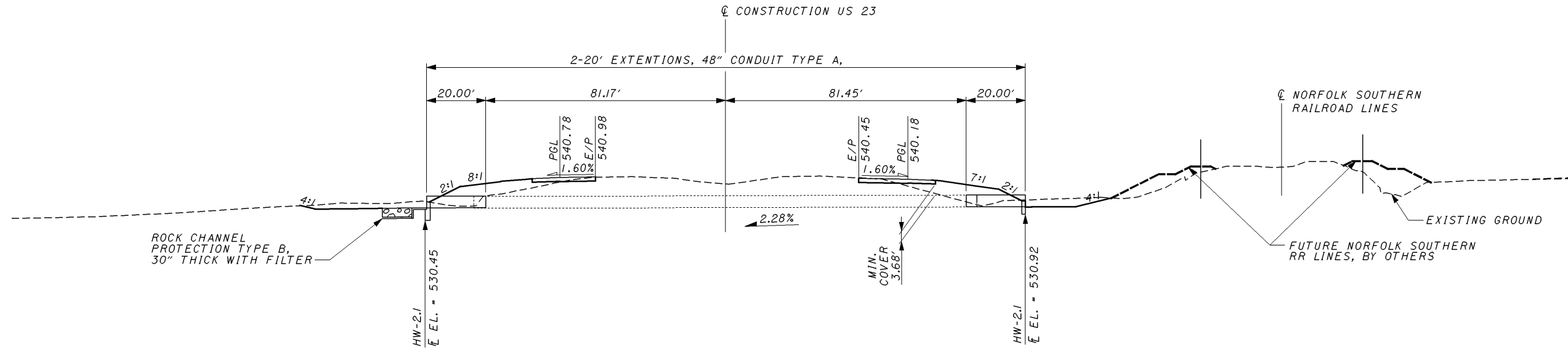
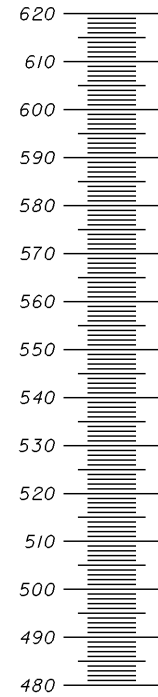
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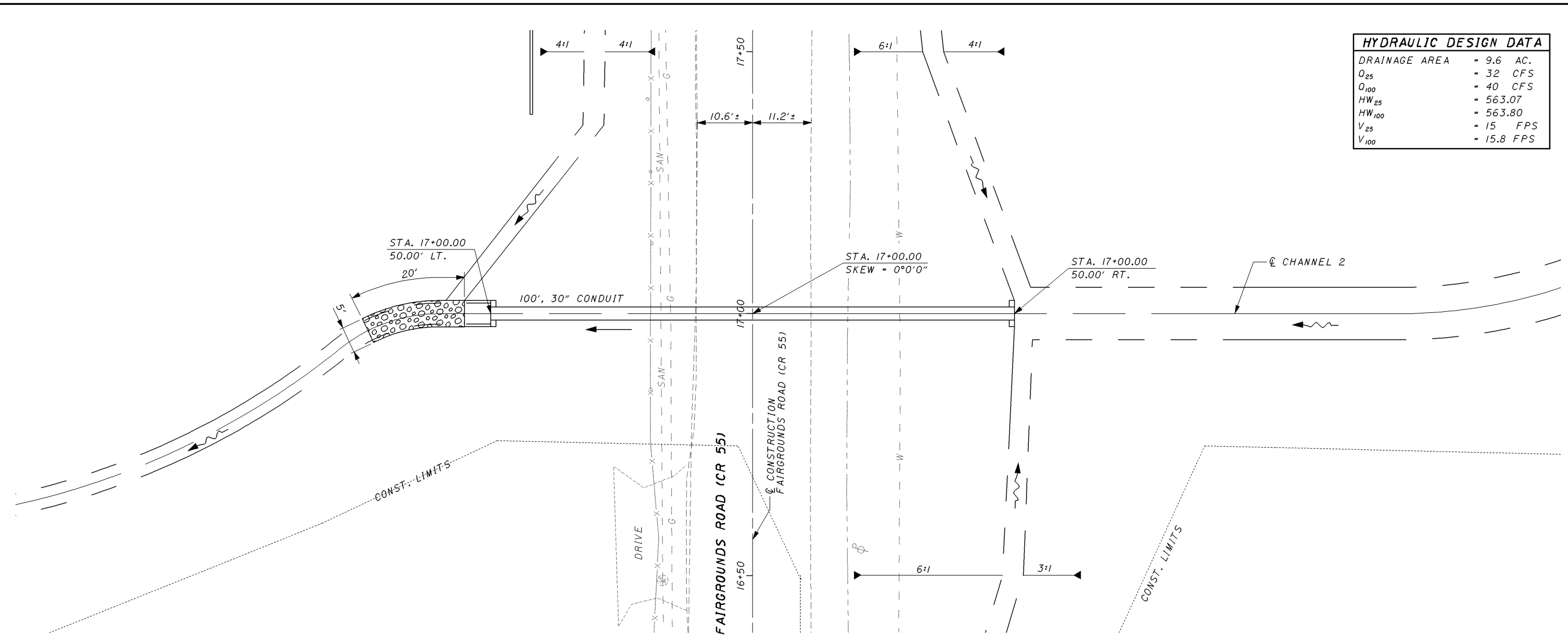


CALCULATED	CTS	CHECKED	ADW
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CULVERT DETAIL
US 23 STA. 635+80.57

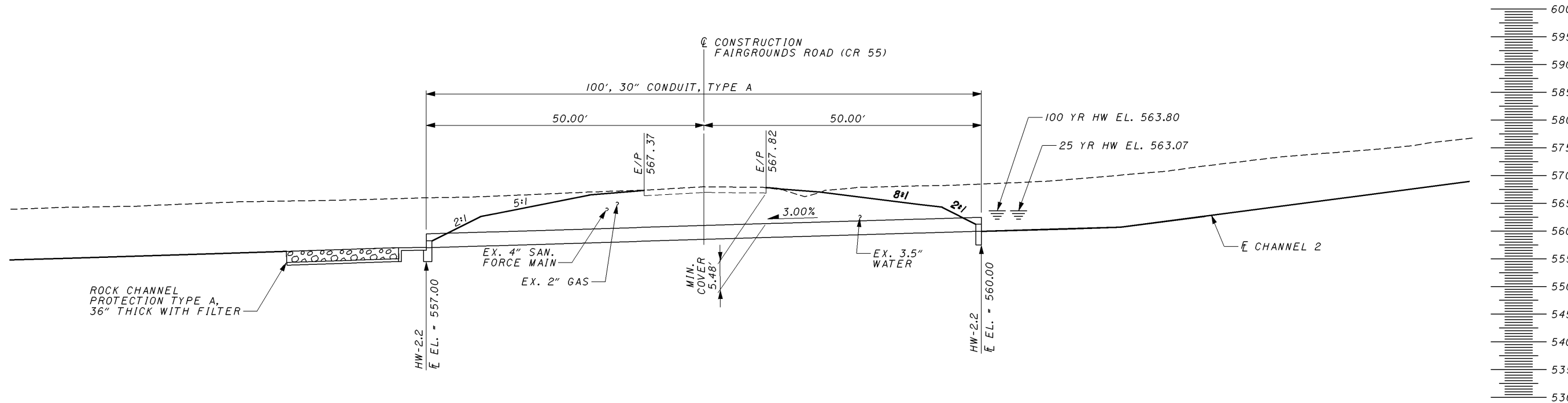
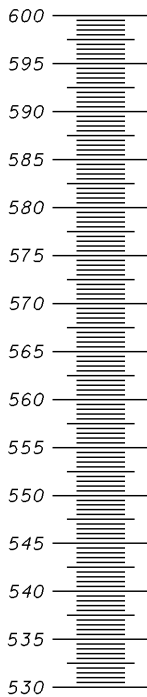
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HYDRAULIC DESIGN DATA	
DRAINAGE AREA	= 9.6 AC.
Q_{25}	= 32 CFS
Q_{100}	= 40 CFS
HW_{25}	= 563.07
HW_{100}	= 563.80
V_{25}	= 15 FPS
V_{100}	= 15.8 FPS

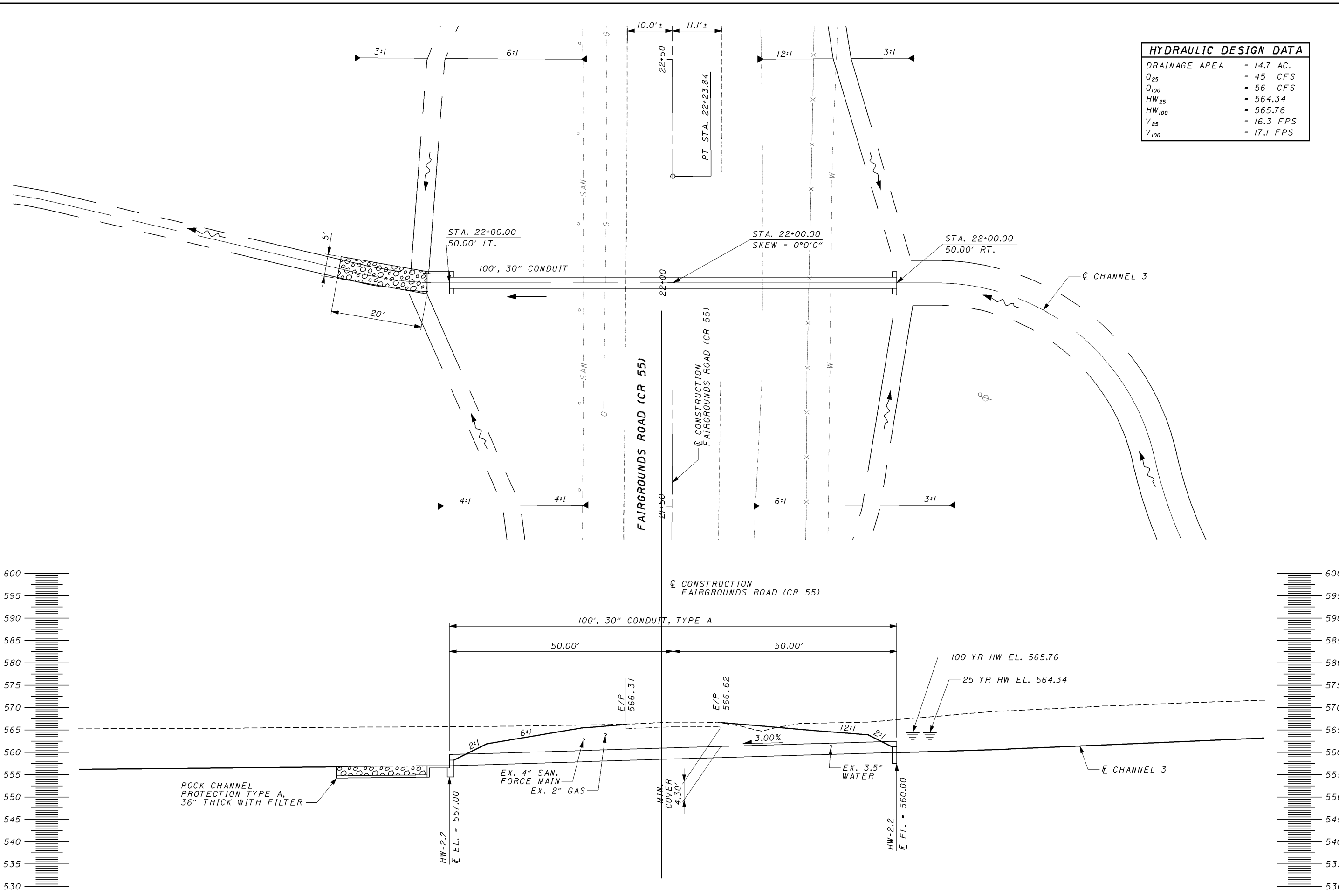
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 0 5 10 20
 HORIZONTAL SCALE IN FEET



CULVERT DETAIL
 FAIRGROUNDS ROAD (CR 55) STA. 17+00.00

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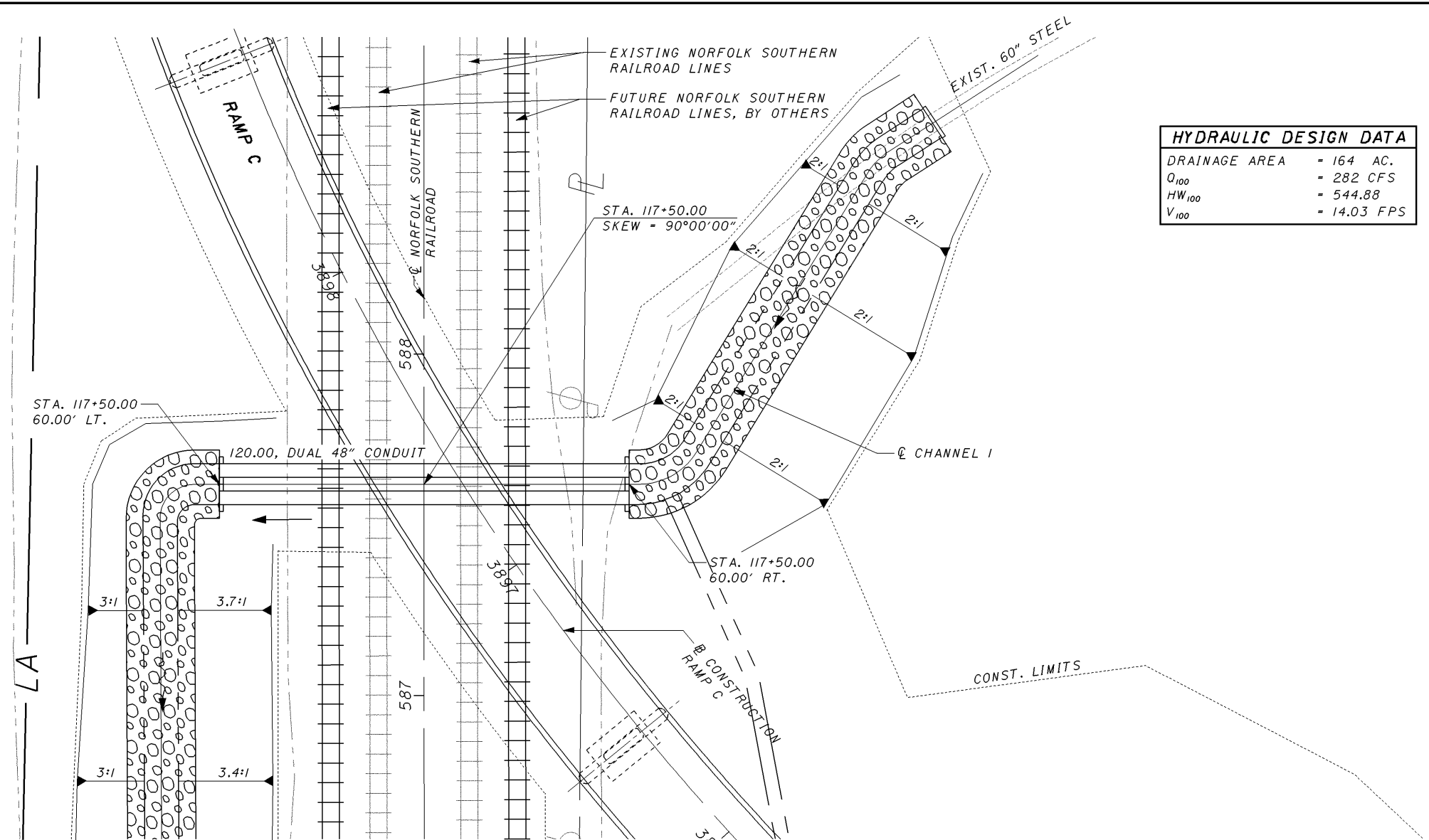
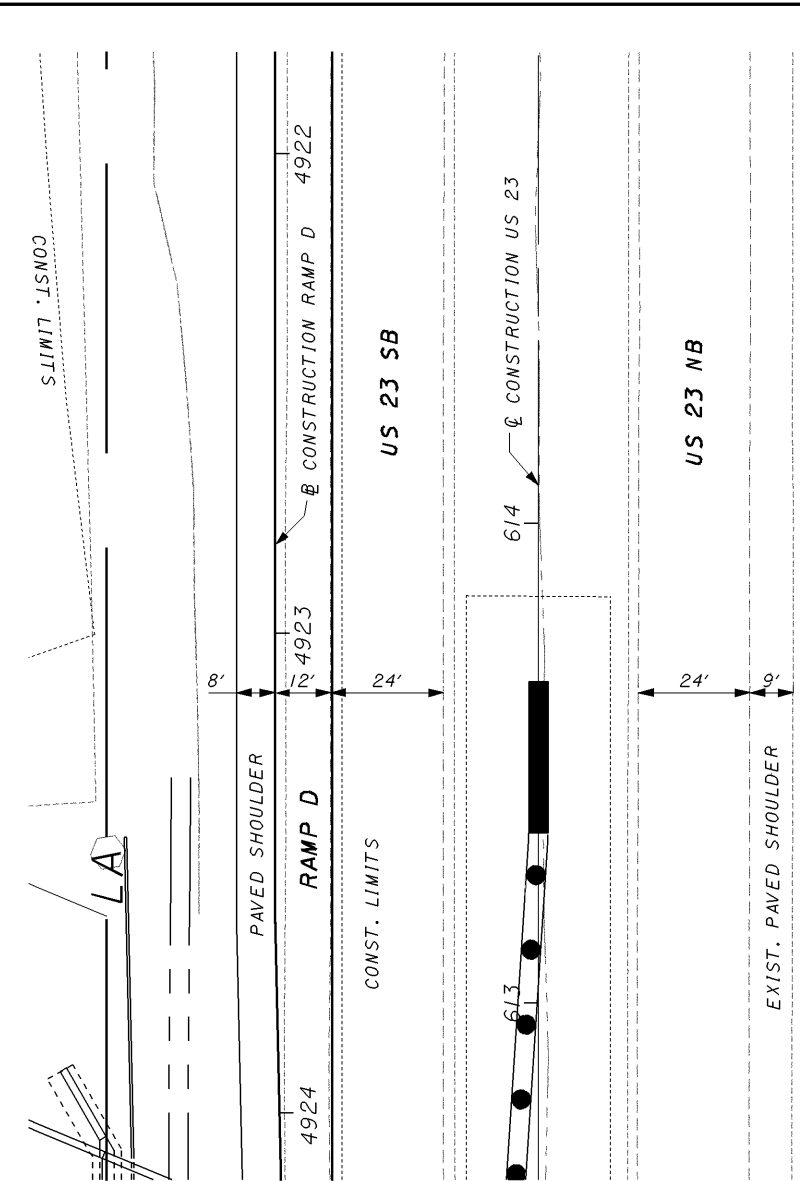
HYDRAULIC DESIGN DATA	
DRAINAGE AREA	= 14.7 AC.
Q_{25}	= 45 CFS
Q_{100}	= 56 CFS
HW_{25}	= 564.34
HW_{100}	= 565.76
V_{25}	= 16.3 FPS
V_{100}	= 17.1 FPS

CALCULATED CTS CHECKED ADW

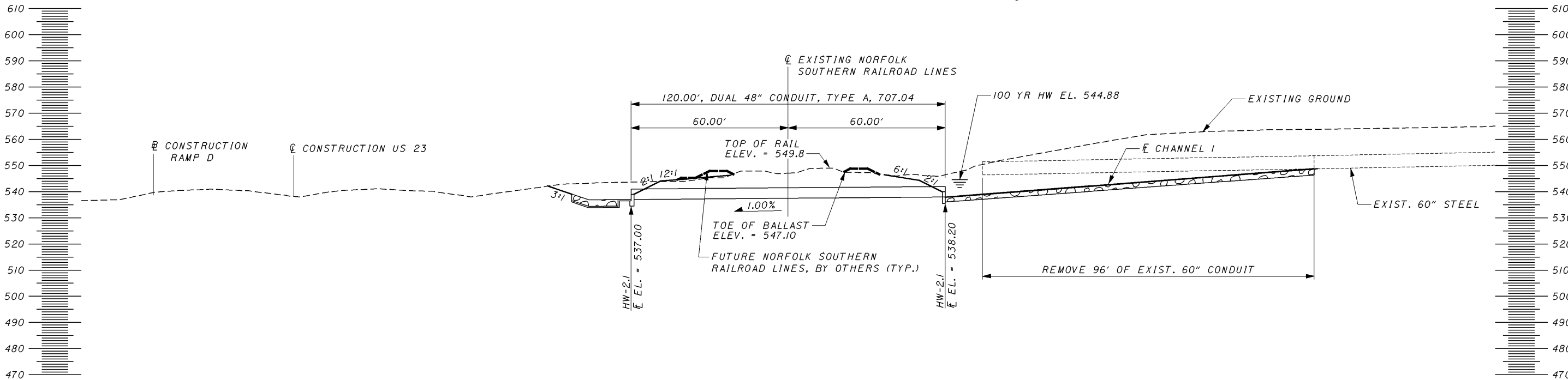
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 HORIZONTAL SCALE IN FEET

CULVERT DETAIL
FAIRGROUNDS ROAD (CR 55) STA. 22+00.00

SCI-823-10.13

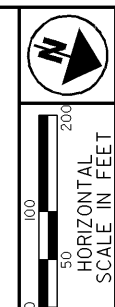


HYDRAULIC DESIGN DATA	
DRAINAGE AREA	= 164 AC.
Q_{100}	= 282 CFS
HW_{100}	= 544.88
V_{100}	= 14.03 FPS



CULVERT DETAIL
NORFOLK SOUTHERN RAILROAD STA. 117+50.00

SCI-823-10.13

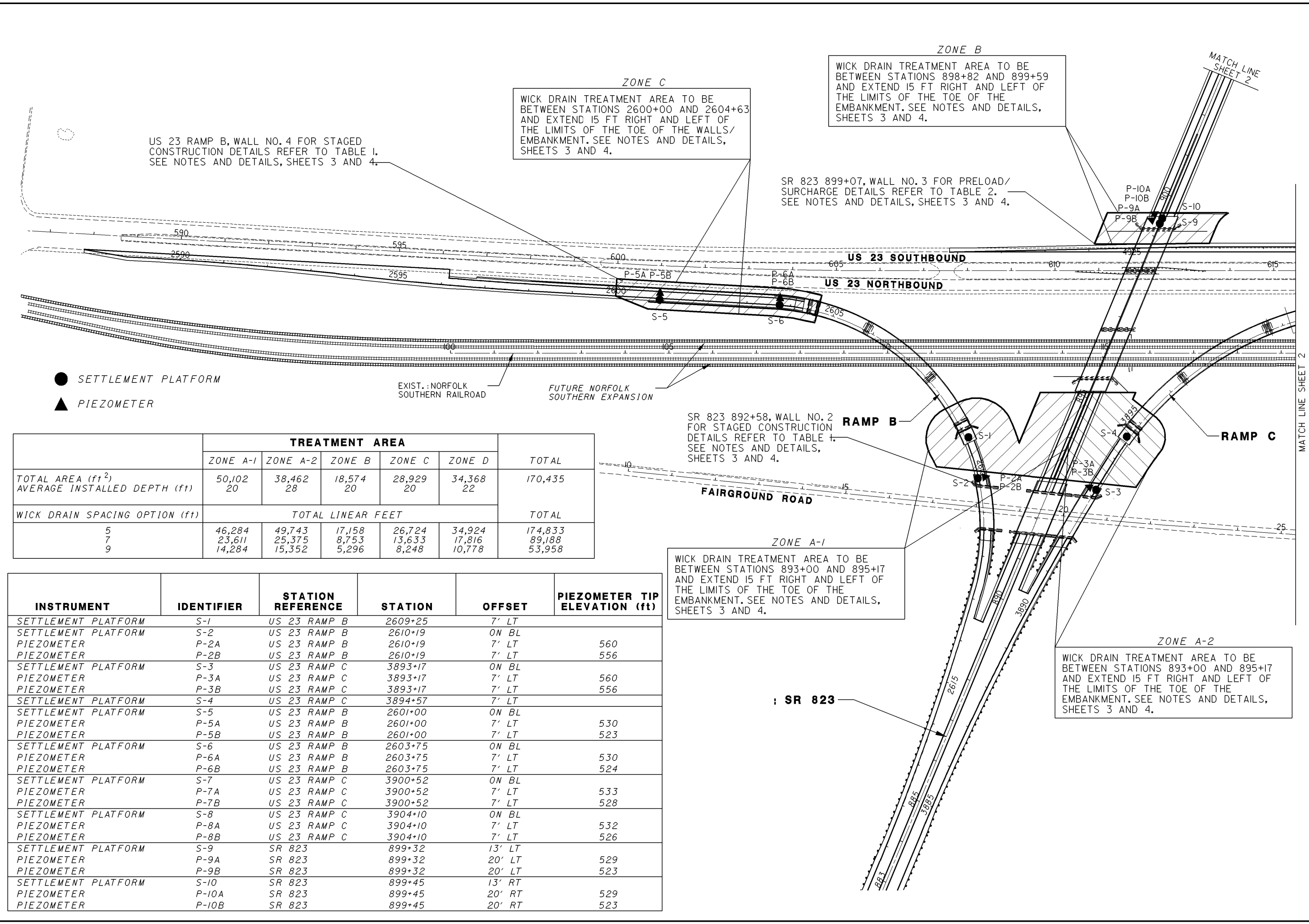


**WICK DRAIN AND INSTRUMENTATION PLAN
US 23/ SR 823 INTERCHANGE**

PID NO. **79977**

SCI-823-10.13

761



US 23 RAMP B, WALL NO. 4 FOR STAGED CONSTRUCTION DETAILS REFER TO TABLE 1. SEE NOTES AND DETAILS, SHEETS 3 AND 4.

WICK DRAIN TREATMENT AREA TO BE BETWEEN STATIONS 2600+00 AND 2604+63 AND EXTEND 15 FT RIGHT AND LEFT OF THE LIMITS OF THE TOE OF THE WALLS/ EMBANKMENT. SEE NOTES AND DETAILS, SHEETS 3 AND 4.

WICK DRAIN TREATMENT AREA TO BE BETWEEN STATIONS 898+82 AND 899+59 AND EXTEND 15 FT RIGHT AND LEFT OF THE LIMITS OF THE TOE OF THE EMBANKMENT. SEE NOTES AND DETAILS, SHEETS 3 AND 4.

SR 823 899+07, WALL NO. 3 FOR PRELOAD/ SURCHARGE DETAILS REFER TO TABLE 2. SEE NOTES AND DETAILS, SHEETS 3 AND 4.

SR 823 892+58, WALL NO. 2 FOR STAGED CONSTRUCTION DETAILS REFER TO TABLE 1. SEE NOTES AND DETAILS, SHEETS 3 AND 4.

WICK DRAIN TREATMENT AREA TO BE BETWEEN STATIONS 893+00 AND 895+17 AND EXTEND 15 FT RIGHT AND LEFT OF THE LIMITS OF THE TOE OF THE EMBANKMENT. SEE NOTES AND DETAILS, SHEETS 3 AND 4.

WICK DRAIN TREATMENT AREA TO BE BETWEEN STATIONS 893+00 AND 895+17 AND EXTEND 15 FT RIGHT AND LEFT OF THE LIMITS OF THE TOE OF THE EMBANKMENT. SEE NOTES AND DETAILS, SHEETS 3 AND 4.

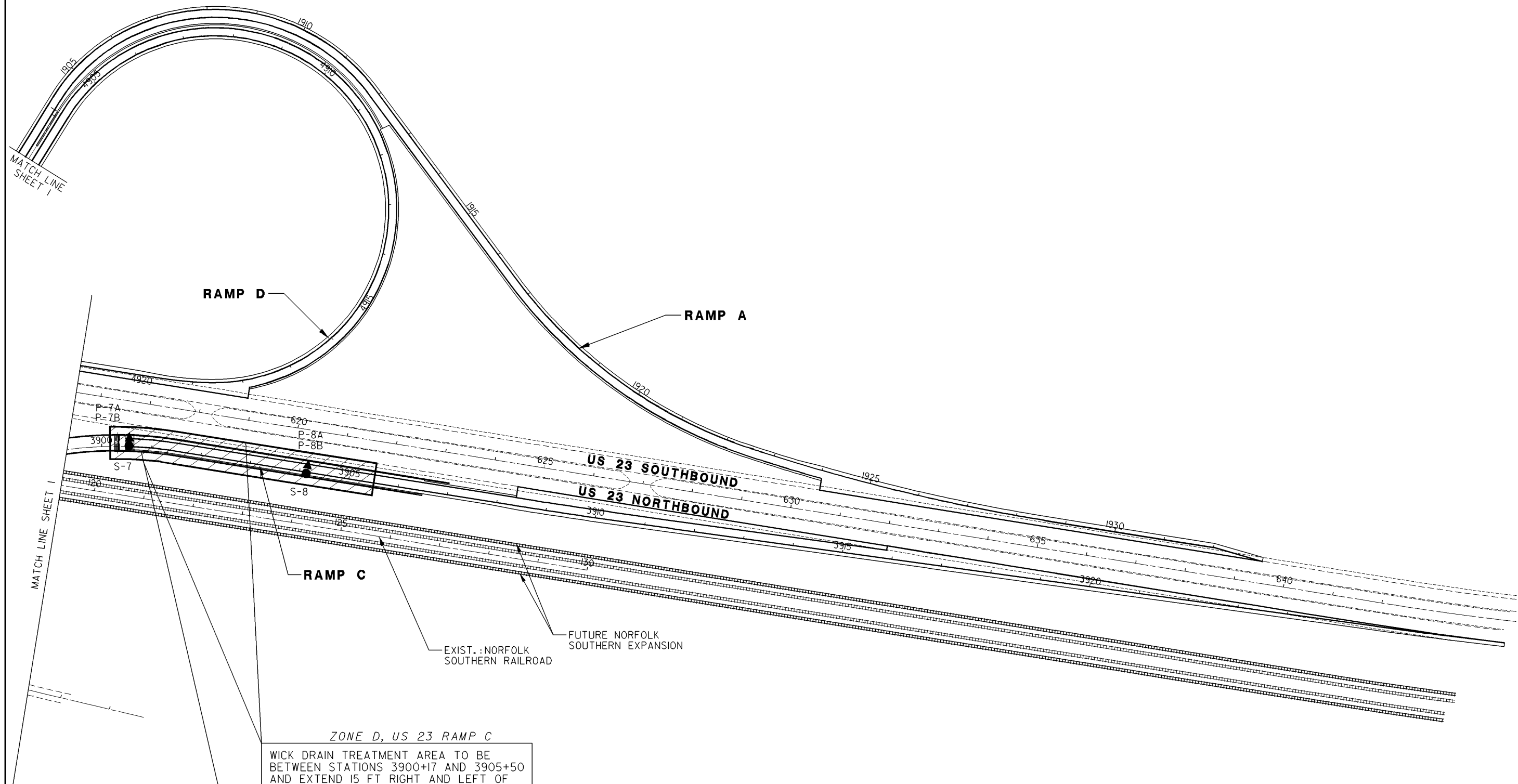
- SETTLEMENT PLATFORM
- ▲ PIEZOMETER

	TREATMENT AREA					TOTAL	
	ZONE A-1	ZONE A-2	ZONE B	ZONE C	ZONE D		
TOTAL AREA (ft ²)	50,102	38,462	18,574	28,929	34,368	170,435	
AVERAGE INSTALLED DEPTH (ft)	20	28	20	20	22		
WICK DRAIN SPACING OPTION (ft)	TOTAL LINEAR FEET					TOTAL	
	5	46,284	49,743	17,158	26,724	34,924	174,833
	7	23,611	25,375	8,753	13,633	17,816	89,188
	9	14,284	15,352	5,296	8,248	10,778	53,958

INSTRUMENT	IDENTIFIER	STATION REFERENCE	STATION	OFFSET	PIEZOMETER TIP ELEVATION (ft)
SETTLEMENT PLATFORM	S-1	US 23 RAMP B	2609+25	7' LT	
SETTLEMENT PLATFORM	S-2	US 23 RAMP B	2610+19	ON BL	
PIEZOMETER	P-2A	US 23 RAMP B	2610+19	7' LT	560
PIEZOMETER	P-2B	US 23 RAMP B	2610+19	7' LT	556
SETTLEMENT PLATFORM	S-3	US 23 RAMP C	3893+17	ON BL	
PIEZOMETER	P-3A	US 23 RAMP C	3893+17	7' LT	560
PIEZOMETER	P-3B	US 23 RAMP C	3893+17	7' LT	556
SETTLEMENT PLATFORM	S-4	US 23 RAMP C	3894+57	7' LT	
SETTLEMENT PLATFORM	S-5	US 23 RAMP B	2601+00	ON BL	
PIEZOMETER	P-5A	US 23 RAMP B	2601+00	7' LT	530
PIEZOMETER	P-5B	US 23 RAMP B	2601+00	7' LT	523
SETTLEMENT PLATFORM	S-6	US 23 RAMP B	2603+75	ON BL	
PIEZOMETER	P-6A	US 23 RAMP B	2603+75	7' LT	530
PIEZOMETER	P-6B	US 23 RAMP B	2603+75	7' LT	524
SETTLEMENT PLATFORM	S-7	US 23 RAMP C	3900+52	ON BL	
PIEZOMETER	P-7A	US 23 RAMP C	3900+52	7' LT	533
PIEZOMETER	P-7B	US 23 RAMP C	3900+52	7' LT	528
SETTLEMENT PLATFORM	S-8	US 23 RAMP C	3904+10	ON BL	
PIEZOMETER	P-8A	US 23 RAMP C	3904+10	7' LT	532
PIEZOMETER	P-8B	US 23 RAMP C	3904+10	7' LT	526
SETTLEMENT PLATFORM	S-9	SR 823	899+32	13' LT	
PIEZOMETER	P-9A	SR 823	899+32	20' LT	529
PIEZOMETER	P-9B	SR 823	899+32	20' LT	523
SETTLEMENT PLATFORM	S-10	SR 823	899+45	13' RT	
PIEZOMETER	P-10A	SR 823	899+45	20' RT	529
PIEZOMETER	P-10B	SR 823	899+45	20' RT	523

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US 23 RAMP C, WALL NO. 5
FOR STAGED CONSTRUCTION
DETAILS REFER TO TABLE I.
SEE NOTES AND DETAILS,
SHEETS 3 AND 4.

ZONE D, US 23 RAMP C
WICK DRAIN TREATMENT AREA TO BE
BETWEEN STATIONS 3900+17 AND 3905+50
AND EXTEND 15 FT RIGHT AND LEFT OF
THE LIMITS OF THE TOE OF THE WALLS/
EMBANKMENT. SEE NOTES AND DETAILS,
SHEETS 3 AND 4.



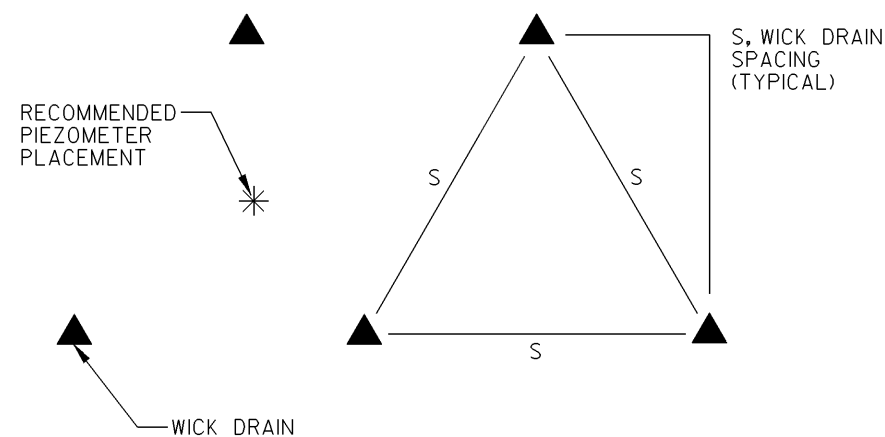
WICK DRAIN AND INSTRUMENTATION PLAN
US 23/ SR 823 INTERCHANGE

PID NO.
79977

SCI-823-10.13

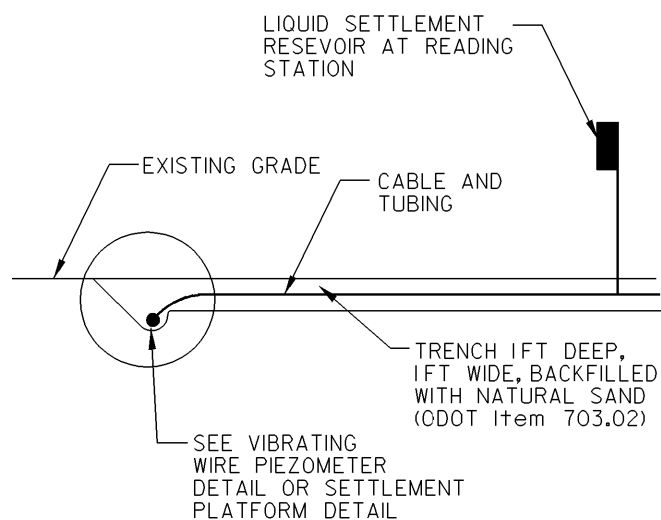
DETAIL "A"

WICK DRAIN TYPICAL LAYOUT-PLAN VIEW
(NOT TO SCALE)



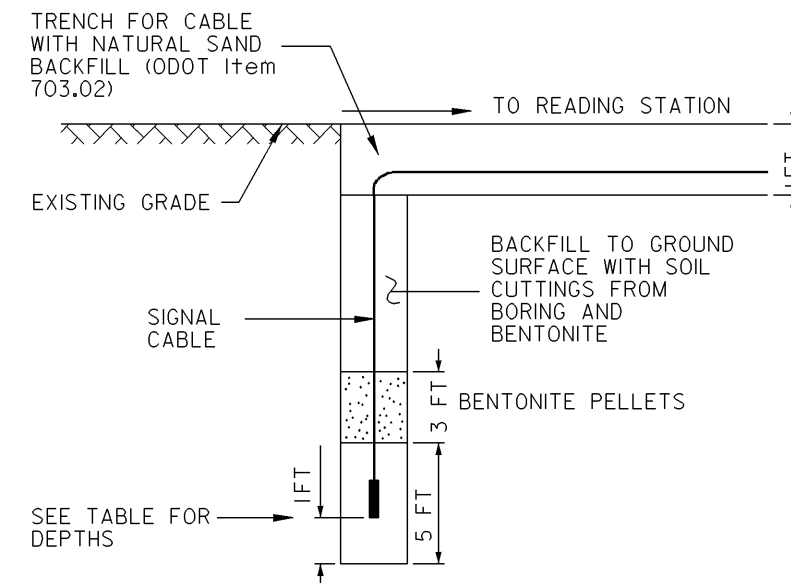
DETAIL "B"

INSTRUMENTATION DETAILS
(NOT TO SCALE)



VIBRATING WIRE PIEZOMETER DETAIL

(NOT TO SCALE)



SETTLEMENT PLATFORM DETAIL

(NOT TO SCALE)

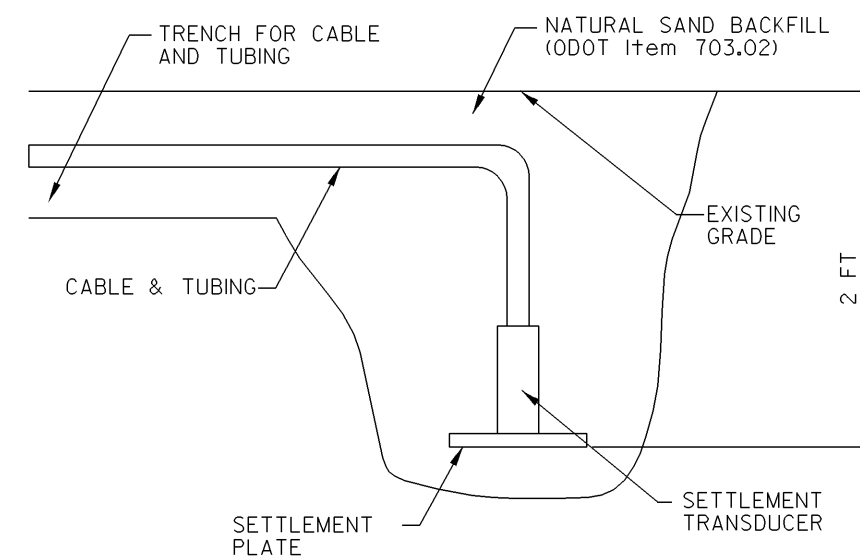


TABLE 1 -STAGED CONSTRUCTION DETAILS

EMBANKMENT SECTIONS, APPROXIMATE STATIONS	EMBANKMENT/WALL STAGE HEIGHT (ft)	MAXIMUM EXCESS PORE PRESSURE, PRIOR TO PLACING SUBSEQUENT STAGES (psi)++	REQUIRED WAITING PERIOD**				
			WICK DRAIN SPACING				
			NO WICK DRAINS	5 FT	7 FT	9 FT	
SR 823 892+58 TO 892+93, WALL NO. 2	STAGE 1	19*	1.6	18 DAYS	NA	NA	NA
	STAGE 2	8	0.7	18 DAYS	NA	NA	NA
	STAGE 3	2+	NA	NA	NA	NA	NA
US 23 RAMP B STA. 2600+00 TO 2604+48, WALL NO. 4	STAGE 1	13*	1.6	45 DAYS	20 DAYS	30 DAYS	35 DAYS
	STAGE 2	11	0.7	45 DAYS	20 DAYS	30 DAYS	35 DAYS
	STAGE 3	8	0.7	45 DAYS	20 DAYS	30 DAYS	35 DAYS
	STAGE 4	5.5+	NA	NA	NA	NA	NA
US 23 RAMP C STA. 3900+32 TO 3905+50, WALL NO. 5	STAGE 1	13*	1.0	56 DAYS	20 DAYS	30 DAYS	40 DAYS
	STAGE 2	10	1.1	56 DAYS	20 DAYS	30 DAYS	40 DAYS
	STAGE 3	8	0.8	13 DAYS	5 DAYS	10 DAYS	10 DAYS
	STAGE 4	3.3+	3.4	NA	NA	NA	NA

* STAGE HEIGHT, NOT INCLUDING MSE WALL EMBEDMENT DEPTH. EMBEDMENT DEPTH (MEASURED BELOW EXISTING GROUND SURFACE) MAY BE ADDED TO STAGE HEIGHT.
 ** PROVIDED WAITING PERIODS ARE ESTIMATES ONLY. PIEZOMETER READINGS SHOULD VERIFY THAT PORE PRESSURE REQUIREMENTS ARE MET.
 + THE MSE WALL MAY BE CONSTRUCTED UP TO THE PROPOSED GRADE.
 ++ EXCESS PORE PRESSURES SHOULD FALL TO OR BELOW THE CITED LEVELS PRIOR TO PLACING THE SUBSEQUENT STAGES.

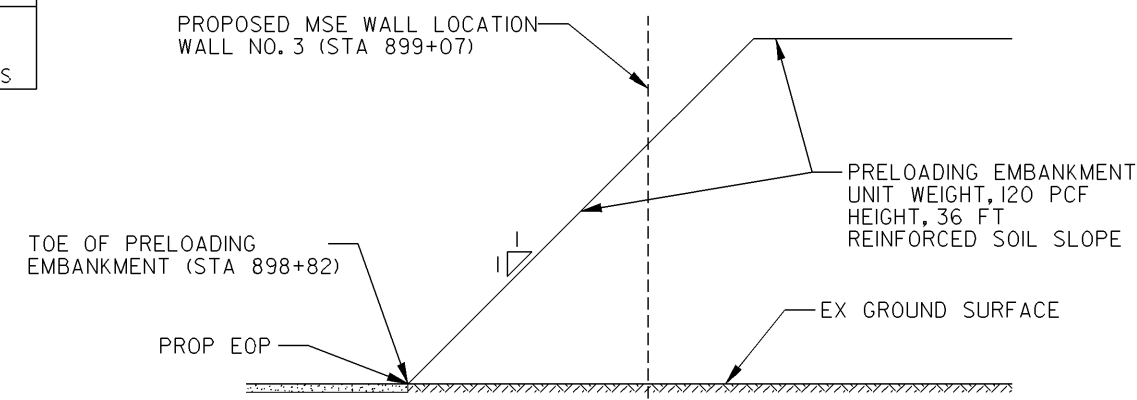
TABLE 2 -PRELOADING EMBANKMENT CONSTRUCTION DETAILS

PRELOAD / SURCHARGE EMBANKMENT	PRELOADING EMBANKMENT HEIGHT (ft)	MAXIMUM EXCESS PORE PRESSURE PRIOR TO REMOVING SURCHARGE AND CONSTRUCTING MSE WALL (psi)*	REQUIRED CONSOLIDATION PERIOD* (under surcharge load)			
			WICK DRAIN SPACING			
			NO WICK DRAINS	5 FT	7 FT	9 FT
SR 823 899+07 TO 899+41, WALL NO. 3	36	3.0	45 DAYS	20 DAYS	30 DAYS	40 DAYS

* Provided waiting periods are estimates only. Piezometer readings should verify that pore pressure requirements are met.
 + Excess pore pressures should fall to or below the cited levels prior to placing the subsequent stages.

DETAIL "C"

PRELOADING EMBANKMENT
VIEW LOOKING SOUTH
(NOT TO SCALE)



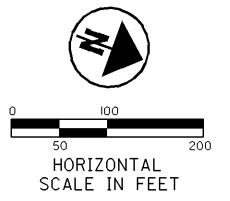
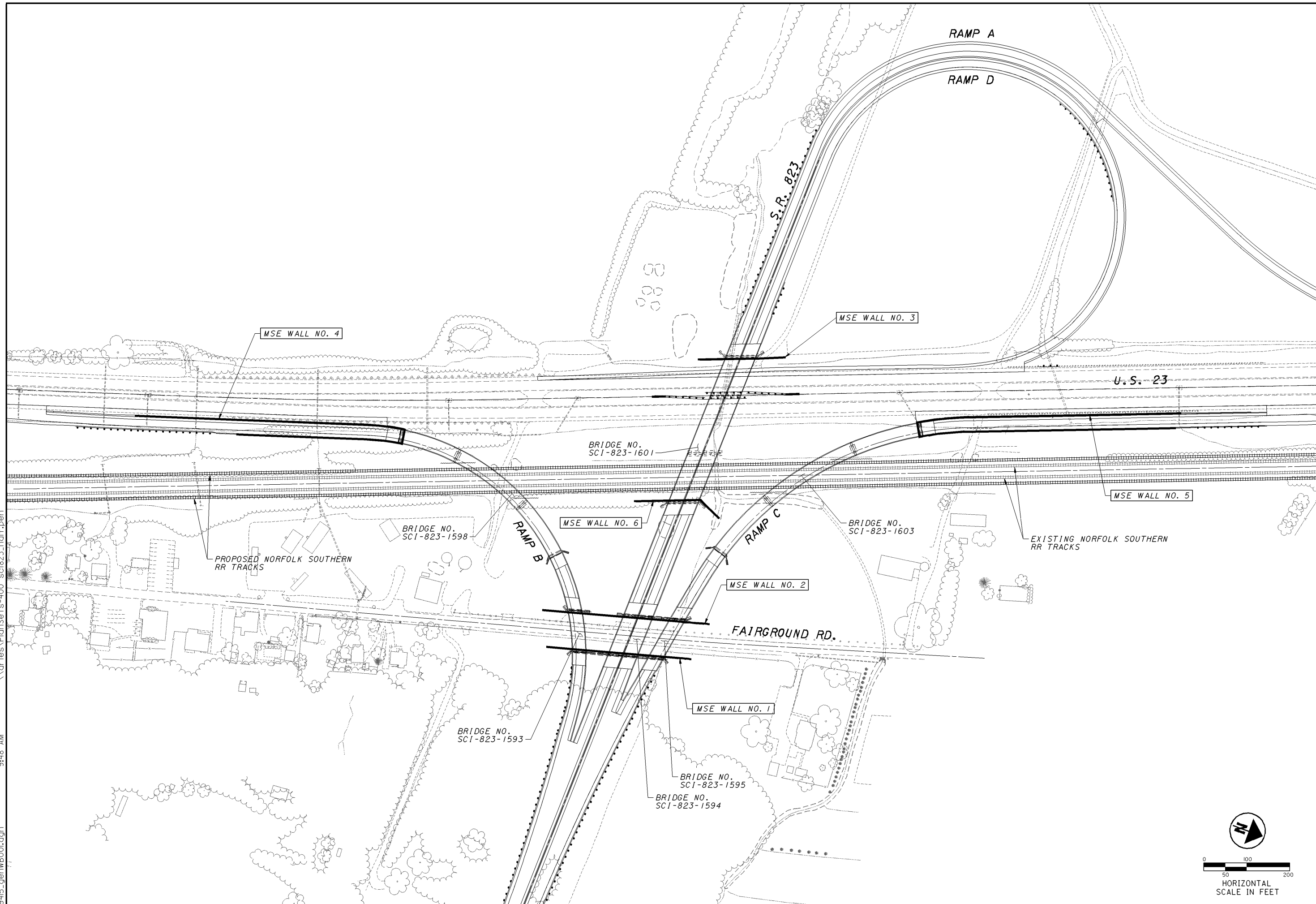
NOTES:

1. PLACE 3 FEET OF ODOT ITEM 703.02 BEFORE THE INSTALLATION OF THE WICK DRAINS. WICK DRAINS TO BE INSTALLED PRIOR TO EMBANKMENT CONSTRUCTION.
2. THE SAND SHALL CONSIST OF CLEAN, FREE-DRAINING, COARSE NATURAL SAND, OR SAND AND PEA GRAVEL, SHALL BE GRADED UNIFORMLY FROM COARSE TO FINE, AND SHALL BE OF SUCH SIZE THAT, WHEN TESTING ON U.S. STANDARD SIEVES IN ACCORDANCE WITH AASHTO T27 AND WASHING THE SAMPLE IN ACCORDANCE WITH AASHTO T11, SHALL CONFORM TO THE GRADING REQUIREMENTS OF ODOT CMS 703.02.
3. THE SAND SHALL NOT CONTAIN ANY ORGANIC OR OTHER DELETERIOUS MATERIALS AND SHALL NOT BE FROZEN WHEN PLACED.
4. IF DENSE SAND, GRAVEL OR HARD SOIL LAYERS ARE ENCOUNTERED BELOW THE GROUND SURFACE AND CANNOT BE PENETRATED WITH REASONABLE EFFORT, THE CONTRACTOR SHALL BE REQUIRED TO PRE-DRILL THE WICK DRAIN LOCATIONS.
5. WICK DRAINS SHALL BE INSTALLED FROM THE WORKING SURFACE TO THE DEPTH SHOWN IN THE PLANS, OR TO COMPLETELY PENETRATE THE COMPRESSIBLE FOUNDATION SOILS AT SUCH A DEPTH EITHER SHALLOWER OR DEEPER THAN PLAN DEPTH WHERE THE SOIL RESISTS A REASONABLE EFFORT AT FURTHER PENETRATION.
6. SETTLEMENT PLATES SHALL BE GEOKON MODEL 4600 OR EQUIVALENT.
7. VIBRATING WIRE PIEZOMETERS SHALL BE SLOPE INDICATOR MODEL 52611099 OR EQUIVALENT.
8. MSE WALLS ALONG US 23 RAMP B, RAMP C, AND WALL NO 2 (WEST OF FAIRGROUND ROAD) MUST BE BUILT USING STAGED CONSTRUCTION. THE FOUNDATION PORE WATER PRESSURES AND SETTLEMENTS SHALL BE MONITORED. THE STAGED CONSTRUCTION STATION LIMITS, STAGED HEIGHTS, PORE PRESSURE DETAILS ARE PRESENTED IN TABLE I.
 - I. A WAITING PERIOD WILL BE REQUIRED BETWEEN STAGES TO ALLOW PORE PRESSURES TO DISSIPATE PRIOR TO PLACING SUBSEQUENT STAGES. THE MAXIMUM REQUIRED PORE PRESSURE AS WELL AS THE REQUIRED WAITING PERIOD FOR SELECTED WICK DRAIN SPACING OPTIONS IS OUTLINED IN TABLE I.
 - II. IT IS RECOMMENDED THAT WICK DRAINS BE INSTALLED PRIOR TO THE INSTALLATION OF SETTLEMENT PLATFORMS OR PIEZOMETERS. PIEZOMETERS SHOULD BE PLACED EQUAL DISTANCES FROM ADJACENT WICK DRAINS TO PREVENT PORE PRESSURE DISSIPATION NEAR THE DRAINS FROM SKEWING MEASUREMENTS, SEE DETAIL "A". THE ODOT CONSTRUCTION REPRESENTATIVE MAY MODIFY THE INSTRUMENTATION PLAN BASED UPON FIELD CONDITIONS.
9. A PRELOADING EMBANKMENT IS REQUIRED AT THE WALL NO 3 LOCATION (STA.899+07) PRIOR TO CONSTRUCTING THE MSE WALL. THE PRELOADING EMBANKMENT SHALL USE 1H:1V SLOPES ALONG EXISTING US 23 (IN THE TRANSVERSE DIRECTION). SEE DETAIL "C". THE PRELOADING EMBANKMENT SHOULD EXTEND IN THE TRANSVERSE DIRECTION TO THE LIMITS OF THE PROPOSED WALL, AND BE CONSTRUCTED UP TO THE PROPOSED ELEVATION. A WAITING PERIOD WILL BE REQUIRED PRIOR TO REMOVING THE PRELOADING EMBANKMENT AND CONSTRUCTING THE MSE WALL. DETAILS FOR THIS PRELOADING EMBANKMENT CAN BE FOUND IN TABLE 2.
10. THE ACTUAL WICK DRAIN TREATMENT AREA AND DEPTH MIGHT DIFFER FROM THE PROPOSED LIMITS DUE TO SOIL VARIATIONS AT THE SITE AND THEREFORE SHOULD BE CONFIRMED IN THE FIELD BY THE ODOT CONSTRUCTION REPRESENTATIVE.

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REVIEWED	SKT	STRUCTURE FILE NUMBER	
DATE	11/07		

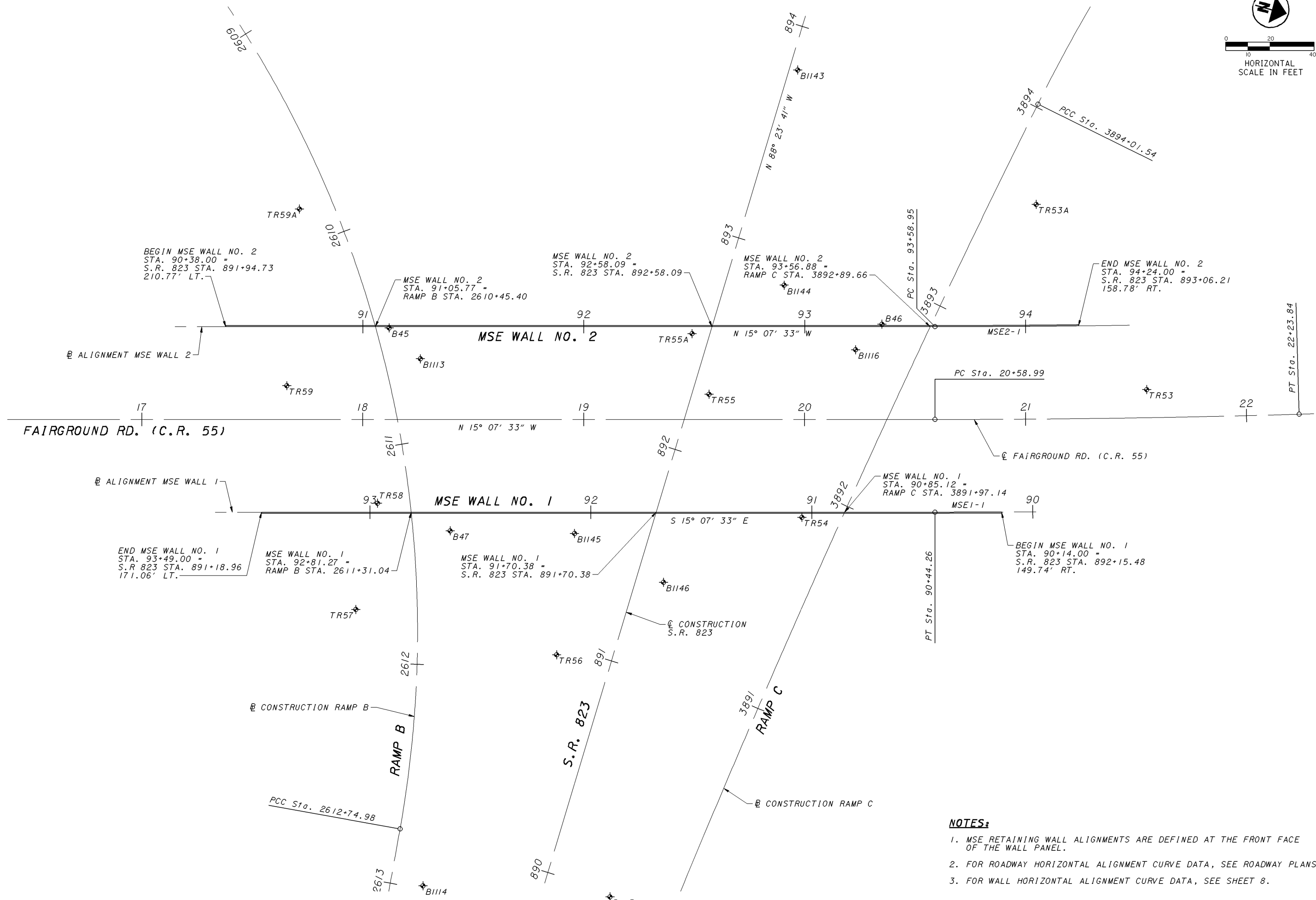
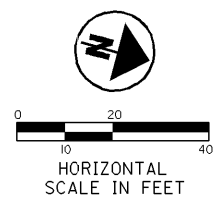
RETAINING WALL KEY PLAN

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- NOTES:**
- MSE RETAINING WALL ALIGNMENTS ARE DEFINED AT THE FRONT FACE OF THE WALL PANEL.
 - FOR ROADWAY HORIZONTAL ALIGNMENT CURVE DATA, SEE ROADWAY PLANS.
 - FOR WALL HORIZONTAL ALIGNMENT CURVE DATA, SEE SHEET 8.

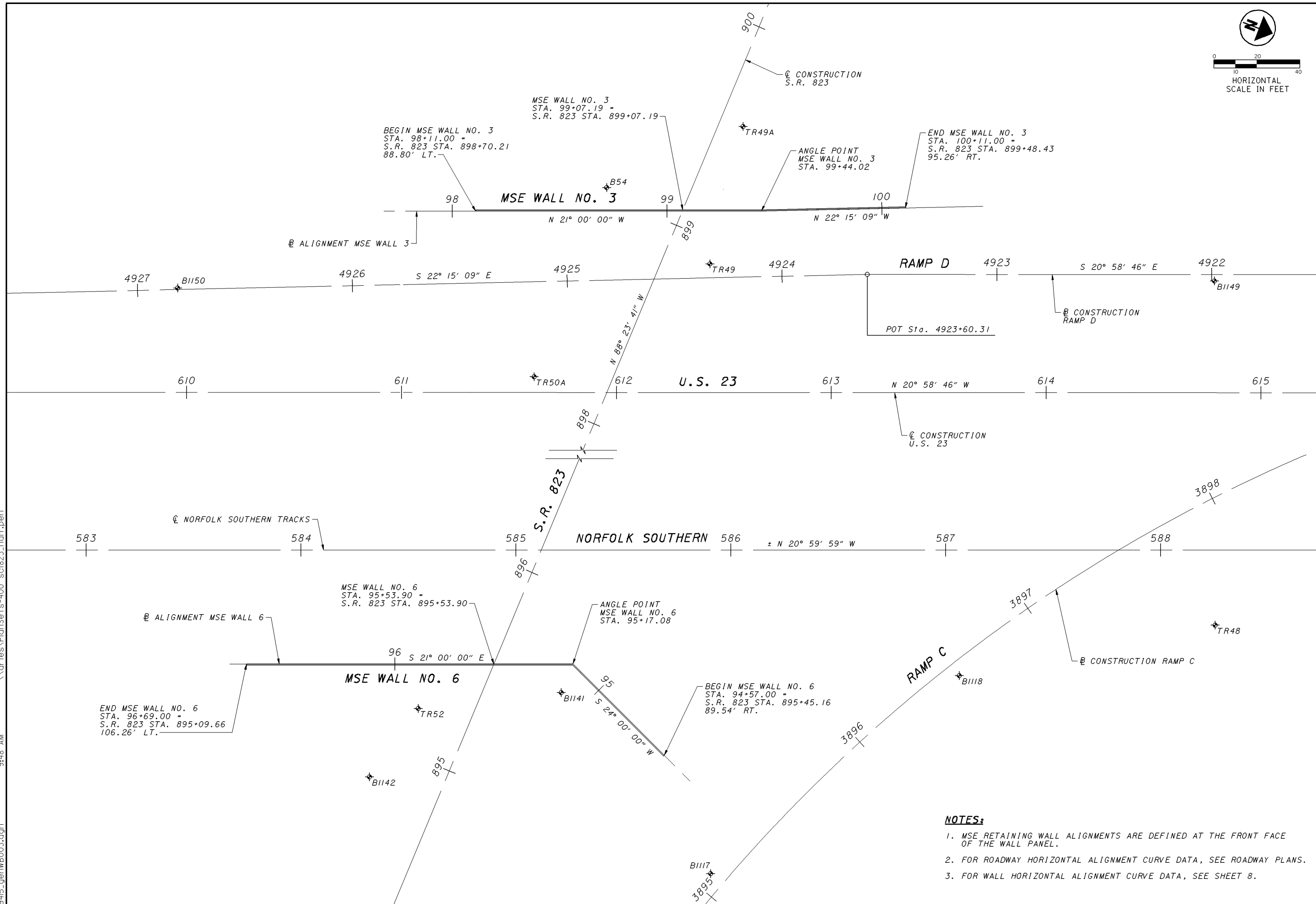
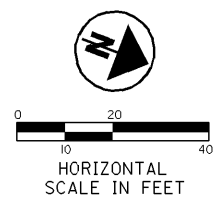
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CH2MHILL
 5775 Perimeter Drive, Suite 180
 Dublin, Ohio 43017

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REVIEWED	SKT	STRUCTURE FILE NUMBER	
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WALL SCHEMATIC PLAN
 S.R. 823 STA. 890+00
 TO STA. 894+00

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 PID 79977

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- NOTES:**
- MSE RETAINING WALL ALIGNMENTS ARE DEFINED AT THE FRONT FACE OF THE WALL PANEL.
 - FOR ROADWAY HORIZONTAL ALIGNMENT CURVE DATA, SEE ROADWAY PLANS.
 - FOR WALL HORIZONTAL ALIGNMENT CURVE DATA, SEE SHEET 8.

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WALL SCHEMATIC PLAN
 S.R. 823 STA. 894+50
 TO STA. 900+00

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 PID 79977

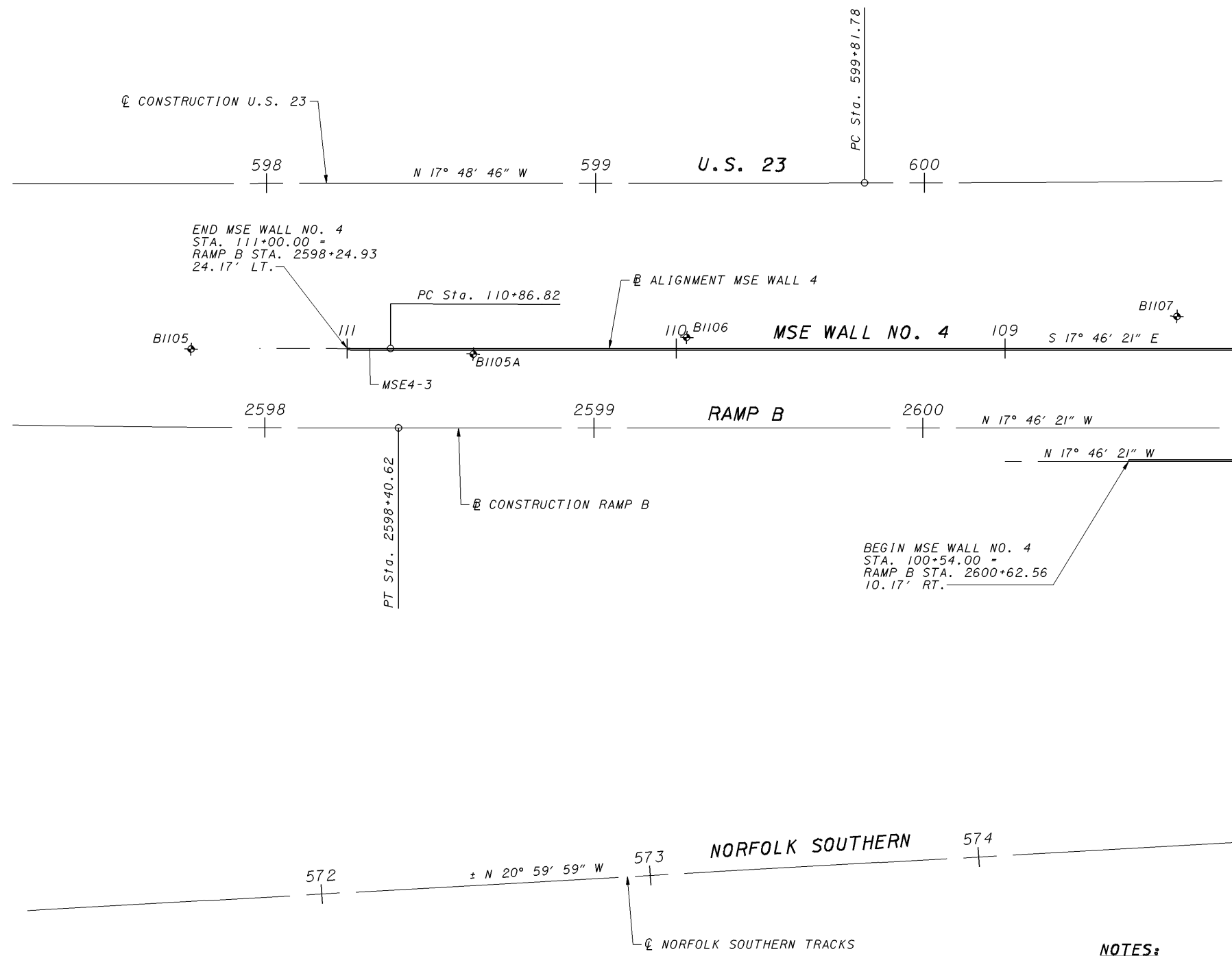
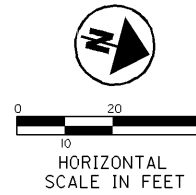
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RAMP B MATCH LINE STA. 2601+00.
SEE SHEET 5

NOTES:

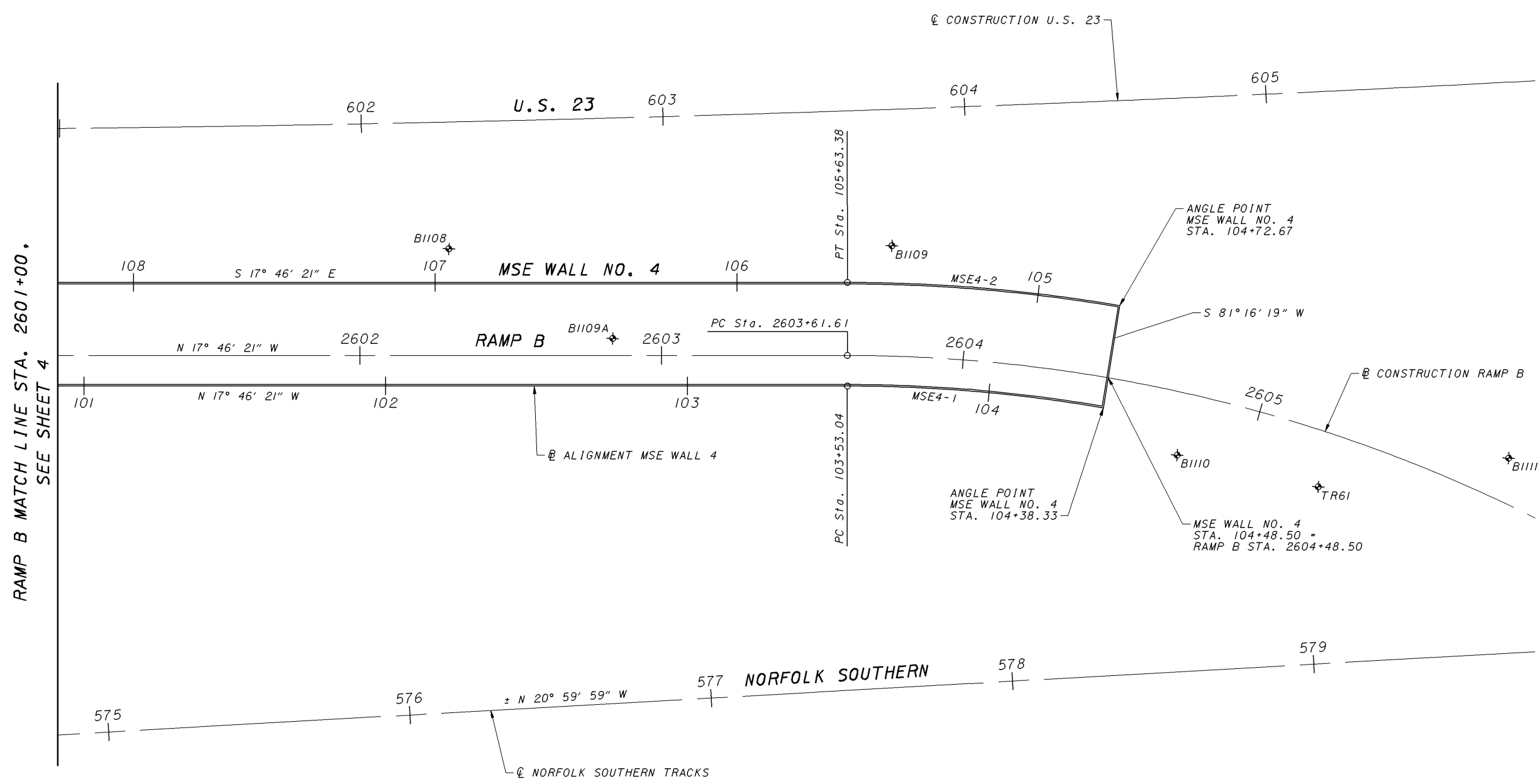
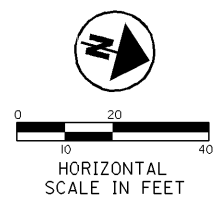
1. MSE RETAINING WALL ALIGNMENTS ARE DEFINED AT THE FRONT FACE OF THE WALL PANEL.
2. FOR ROADWAY HORIZONTAL ALIGNMENT CURVE DATA, SEE ROADWAY PLANS.
3. FOR WALL HORIZONTAL ALIGNMENT CURVE DATA, SEE SHEET 8.

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WALL SCHEMATIC PLAN RAMP B STA. 2597+50 TO STA. 2601+00				CH2MHILL DESIGN AGENCY 5775 Perimeter Drive, Suite 190 Dublin, Ohio 43017			
SCI-823-10.13 PID 79977				4 / 30			

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RAMP B MATCH LINE STA. 2601+00, SEE SHEET 4

NOTES:

1. MSE RETAINING WALL ALIGNMENTS ARE DEFINED AT THE FRONT FACE OF THE WALL PANEL.
2. FOR ROADWAY HORIZONTAL ALIGNMENT CURVE DATA, SEE ROADWAY PLANS.
3. FOR WALL HORIZONTAL ALIGNMENT CURVE DATA, SEE SHEET 8.

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DATE	11/07		

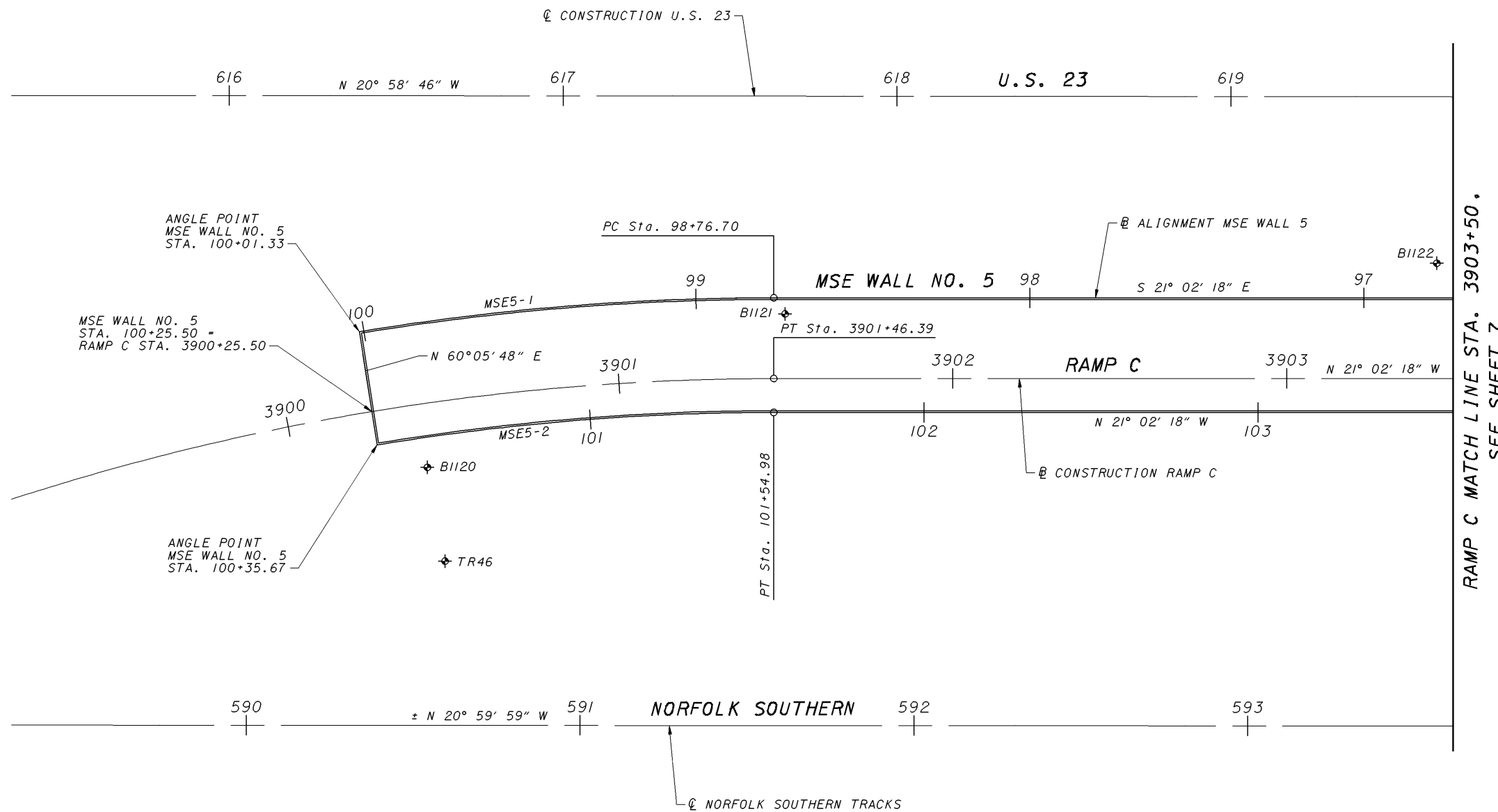
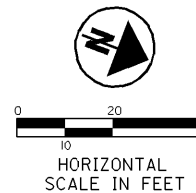
WALL SCHEMATIC PLAN
RAMP B STA. 2601+00
TO STA. 2605+50

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PID 79977

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RAMP C MATCH LINE STA. 3903+50.
SEE SHEET 7

NOTES:

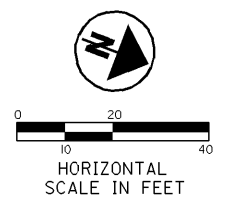
1. MSE RETAINING WALL ALIGNMENTS ARE DEFINED AT THE FRONT FACE OF THE WALL PANEL.
2. FOR ROADWAY HORIZONTAL ALIGNMENT CURVE DATA, SEE ROADWAY PLANS.
3. FOR WALL HORIZONTAL ALIGNMENT CURVE DATA, SEE SHEET 8.

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CHECKED DGS		REVISED		STRUCTURE FILE NUMBER		CH2MHILL Perimeter Drive, Suite 190 Dublin, Ohio 43017	
WALL SCHEMATIC PLAN				SCI-823-10.13			
RAMP C STA. 3899+50 TO STA. 3903+50				PID 79977			
				6/30			
				776			

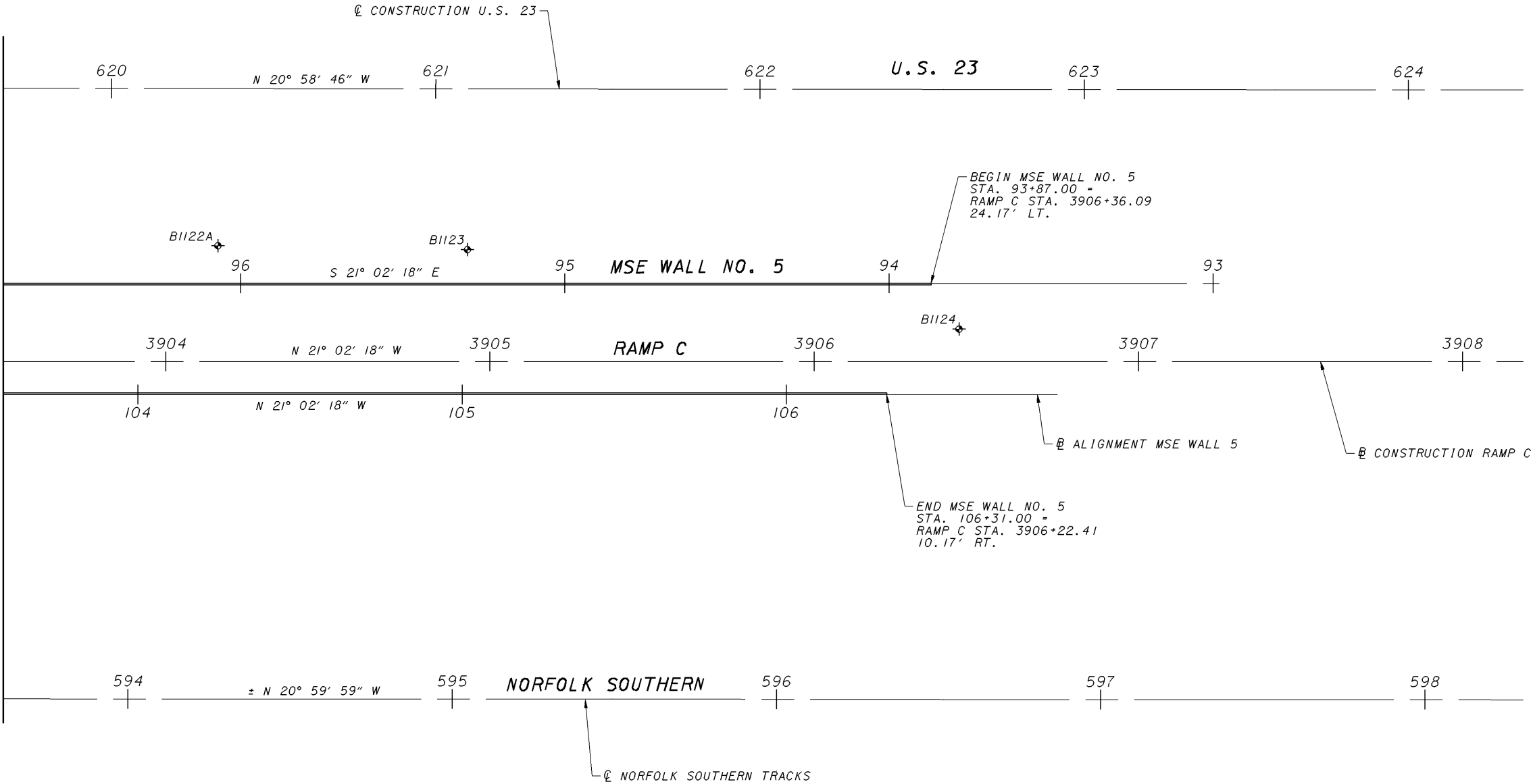
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RAMP C MATCH LINE STA. 3903+50,
SEE SHEET 6



NOTES:

1. MSE RETAINING WALL ALIGNMENTS ARE DEFINED AT THE FRONT FACE OF THE WALL PANEL.
2. FOR ROADWAY HORIZONTAL ALIGNMENT CURVE DATA, SEE ROADWAY PLANS.
3. FOR WALL HORIZONTAL ALIGNMENT CURVE DATA, SEE SHEET 8.

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DATE	11/07		

WALL SCHEMATIC PLAN
RAMP C STA. 3903+50
TO STA. 3908+00

SCI-823-10.13
PID 79977



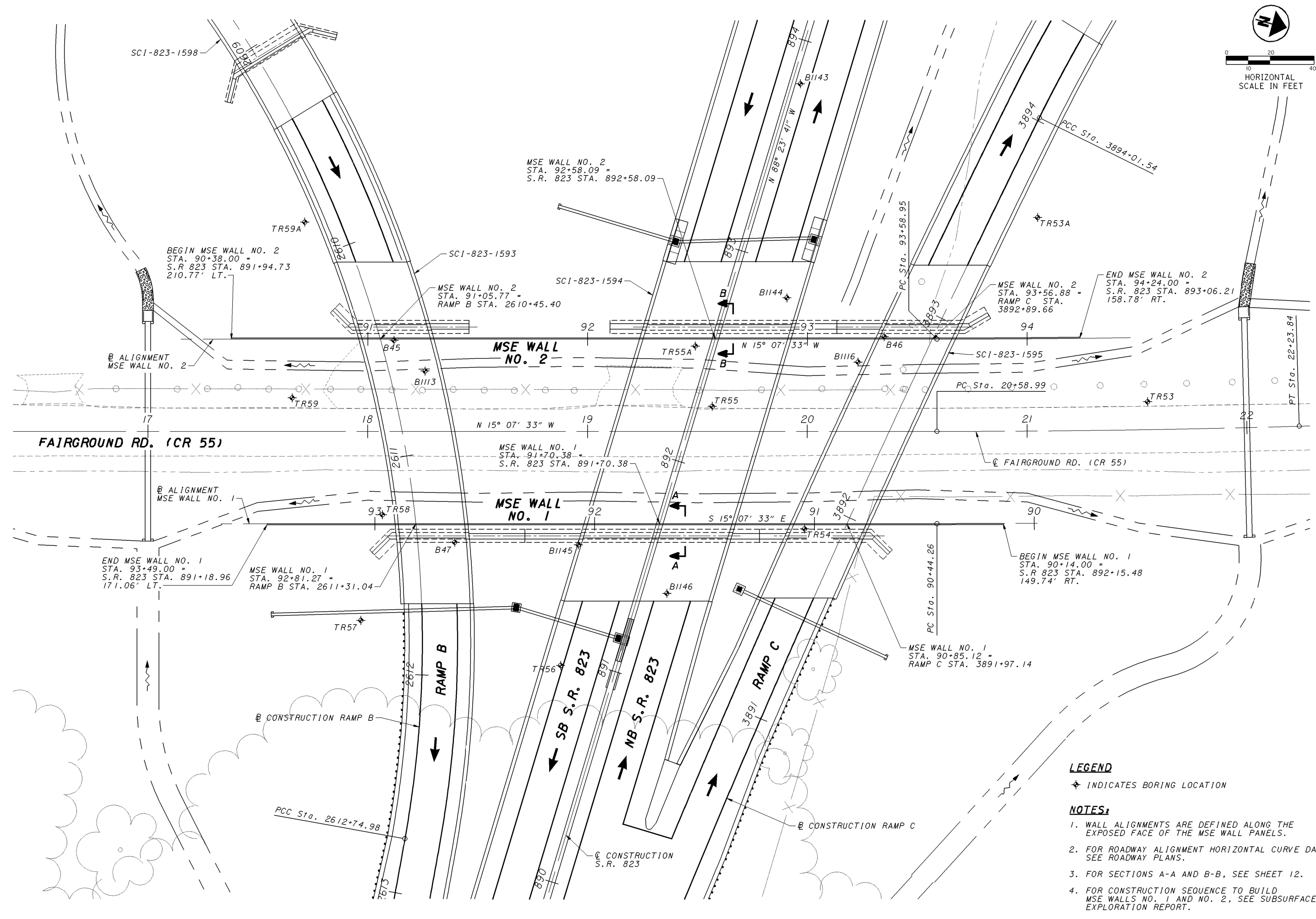
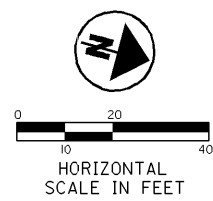
HORIZONTAL CURVE DATA

ALIGNMENT	CURVE NO.	P.I. STATION	P.I. COORDINATES		Δ	Dc	R	T	Lc	L	E	P.C. STATION	P.C. COORDINATES		P.T. STATION	P.T. COORDINATES	
			NORTH	EAST									NORTH	EAST		NORTH	EAST
MSE WALL 1	MSE1-1	89+97.68	325484.93	1826854.87	0° 55' 31" RT.	0° 59' 36"	5768.58'	46.59'	93.17'	93.17'	0.19'	89+51.10	325529.70	1826841.99	90+44.26	325439.96	1826867.03
MSE WALL 2	MSE2-1	94+21.91	325478.82	1826769.51	1° 16' 09" LT.	1° 00' 29"	5684.58'	62.96'	125.91'	125.91'	0.35'	93+58.95	325418.04	1826785.94	94+84.87	325539.22	1826751.74
MSE WALL 3																	
MSE WALL 4	MSE4-1	103+95.79	324624.73	1826624.78	9° 47' 26" RT.	11° 28' 45"	499.13'	42.75'	85.19'	85.29'	1.83'	103+53.04	324584.02	1826637.83	104+38.33	324667.06	1826618.84
	MSE4-2	105+18.13	324616.83	1826591.26	9° 44' 33" LT.	10° 44' 25"	533.46'	45.46'	90.60'	90.71'	1.93'	104+72.67	324661.85	1826584.91	105+63.38	324573.54	1826605.13
	MSE4-3	111+06.73	324056.12	1826770.99	0° 17' 59" RT.	0° 45' 09"	7615.27'	19.91'	39.82'	39.82'	0.03'	110+86.82	324075.08	1826764.91	111+26.64	324037.13	1826776.96
MSE WALL 5	MSE5-1	99+39.16	325829.52	1826130.43	9° 21' 11" LT.	7° 30' 17"	763.47'	62.45'	124.49'	124.63'	2.55'	98+76.70	325887.81	1826108.01	100+01.33	325775.65	1826162.03
	MSE5-2	100+95.46	325844.33	1826161.52	9° 22' 34" RT.	7° 51' 29"	729.13'	59.79'	119.18'	119.32'	2.45'	100+35.67	325792.77	1826191.79	101+54.98	325900.14	1826140.06
MSE WALL 6																	

DESIGNED	JBA	CHECKED	DGS
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DATE	11/07		

MSE WALLS 1 & 2 PLAN VIEW

SCI-823-10.13
 PID 79977



LEGEND

◆ INDICATES BORING LOCATION

NOTES:

1. WALL ALIGNMENTS ARE DEFINED ALONG THE EXPOSED FACE OF THE MSE WALL PANELS.
2. FOR ROADWAY ALIGNMENT HORIZONTAL CURVE DATA SEE ROADWAY PLANS.
3. FOR SECTIONS A-A AND B-B, SEE SHEET 12.
4. FOR CONSTRUCTION SEQUENCE TO BUILD MSE WALLS NO. 1 AND NO. 2, SEE SUBSURFACE EXPLORATION REPORT.

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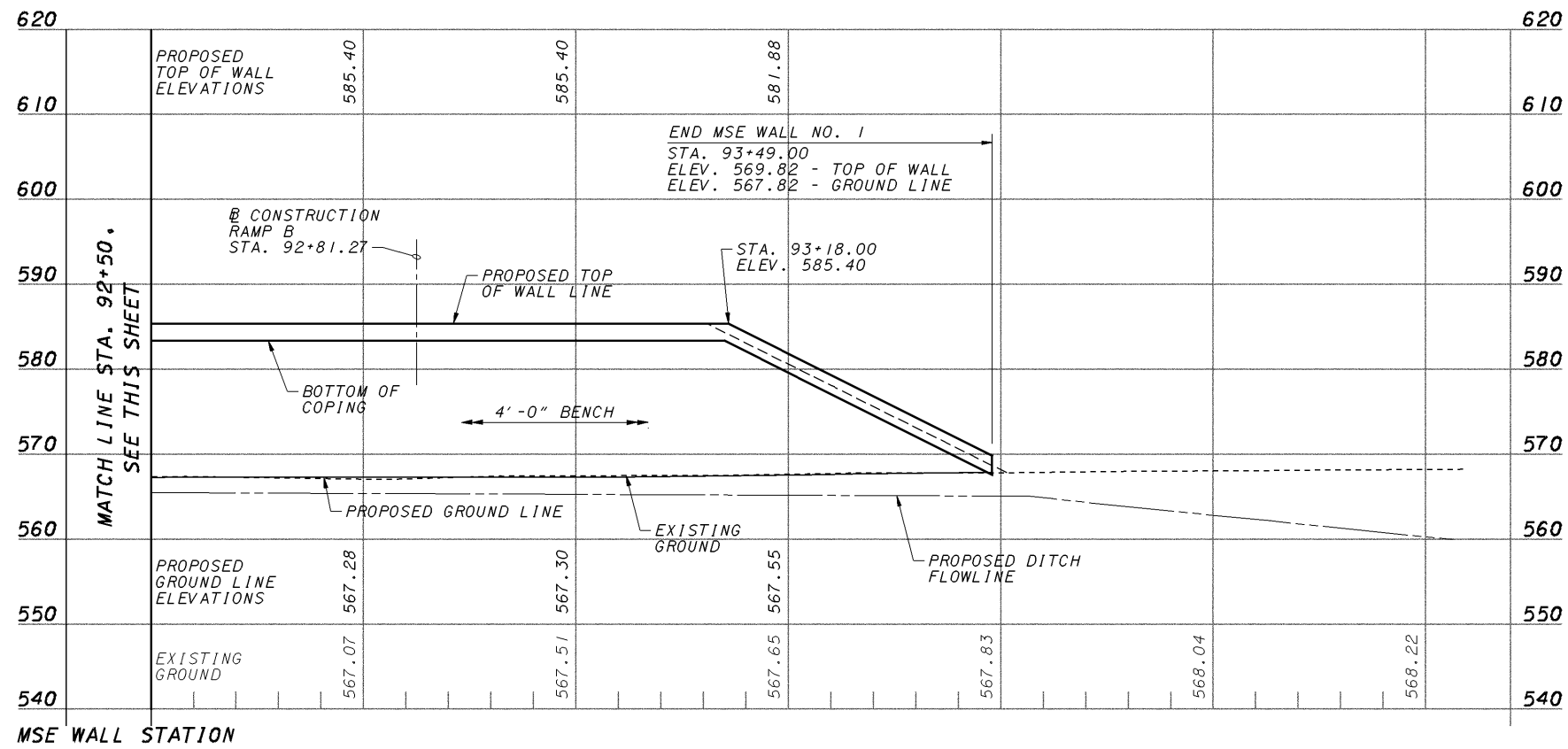
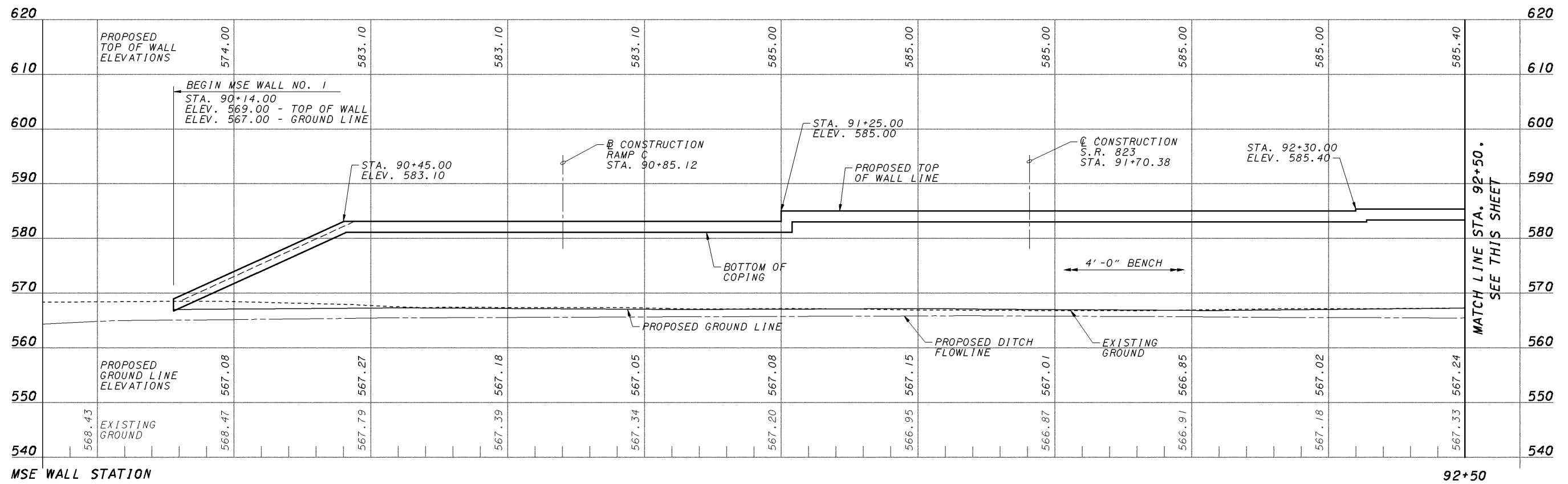
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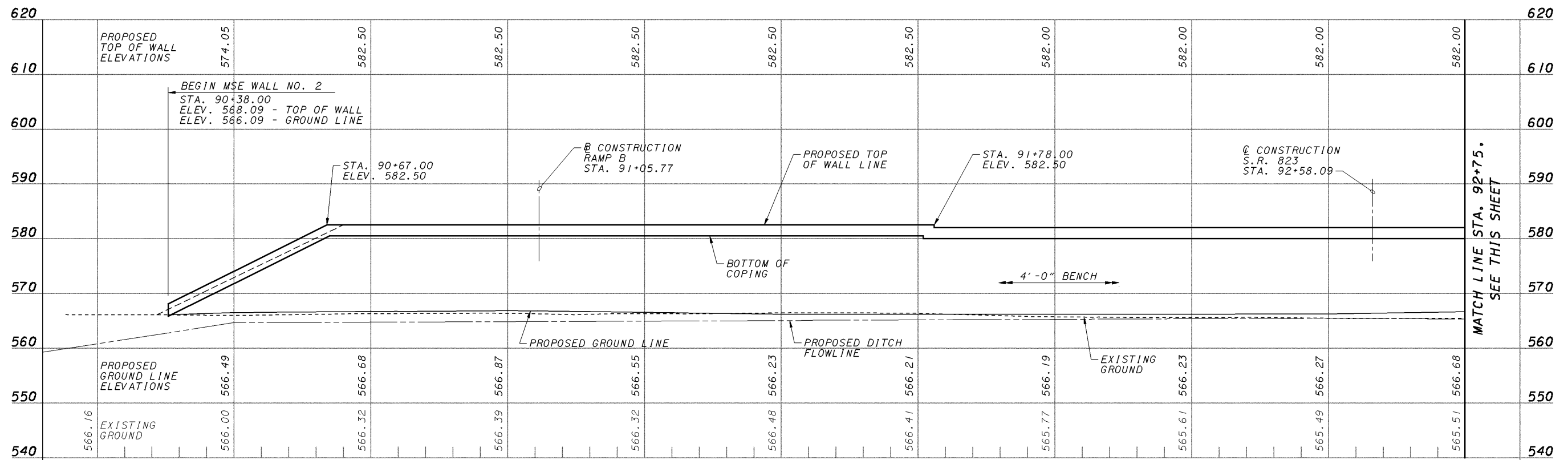


- NOTES:**
- MSE WALL ELEVATIONS ARE SHOWN VIEWED FROM THE EXPOSED FACE OF THE WALL.
 - FOR DEFINITION OF MSE WALL TOP AND BOTTOM ELEVATIONS, SEE WALL SECTION ON SHEET 12.

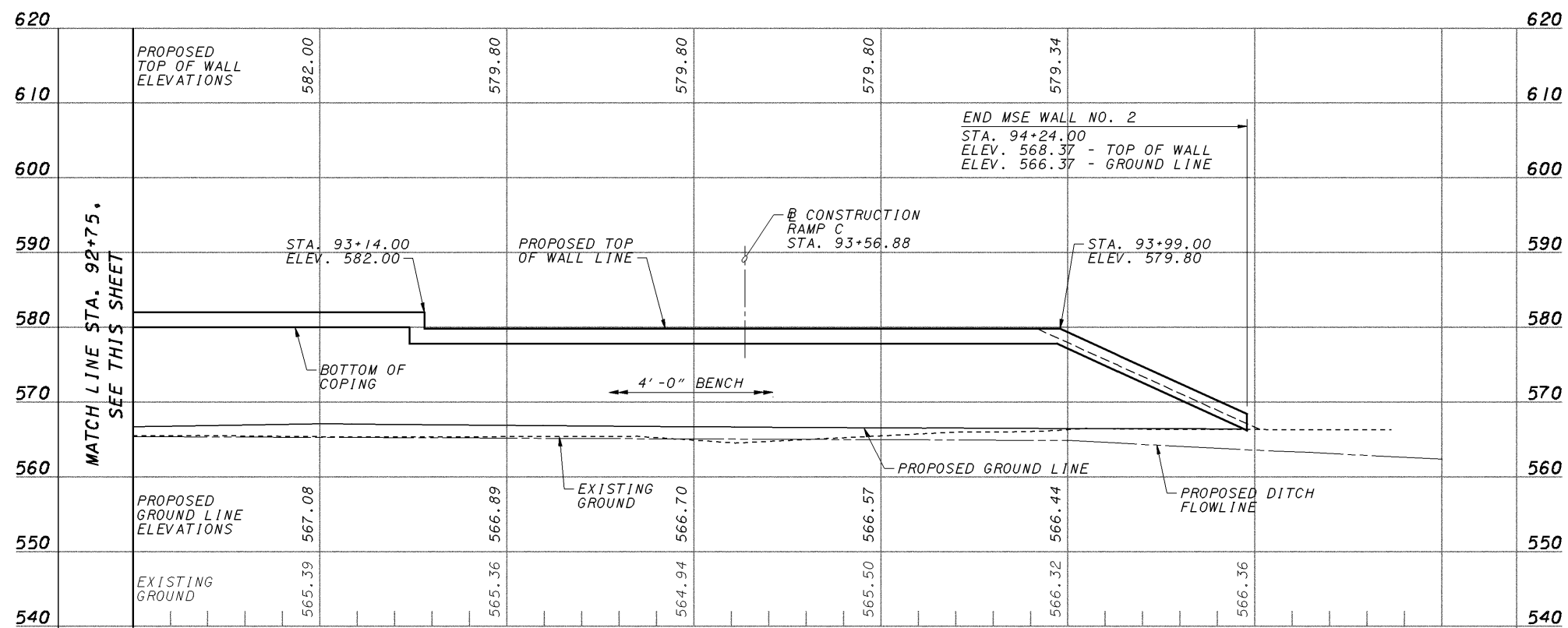
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MSE WALL STATION



MSE WALL STATION

94+50

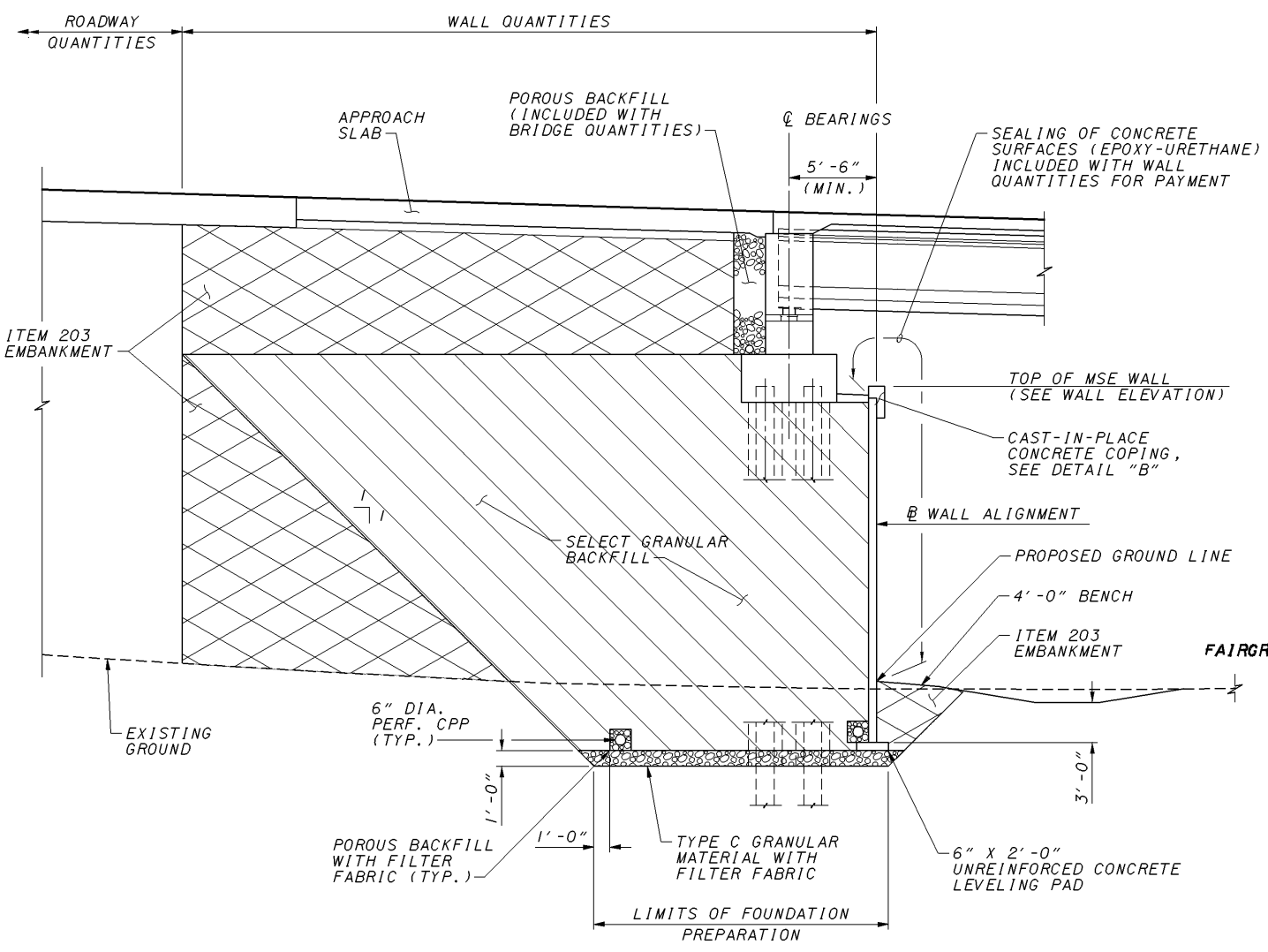
NOTES:

1. MSE WALL ELEVATIONS ARE SHOWN VIEWED FROM THE EXPOSED FACE OF THE WALL.
2. FOR DEFINITION OF MSE WALL TOP AND BOTTOM ELEVATIONS, SEE WALL SECTION ON SHEET 12.

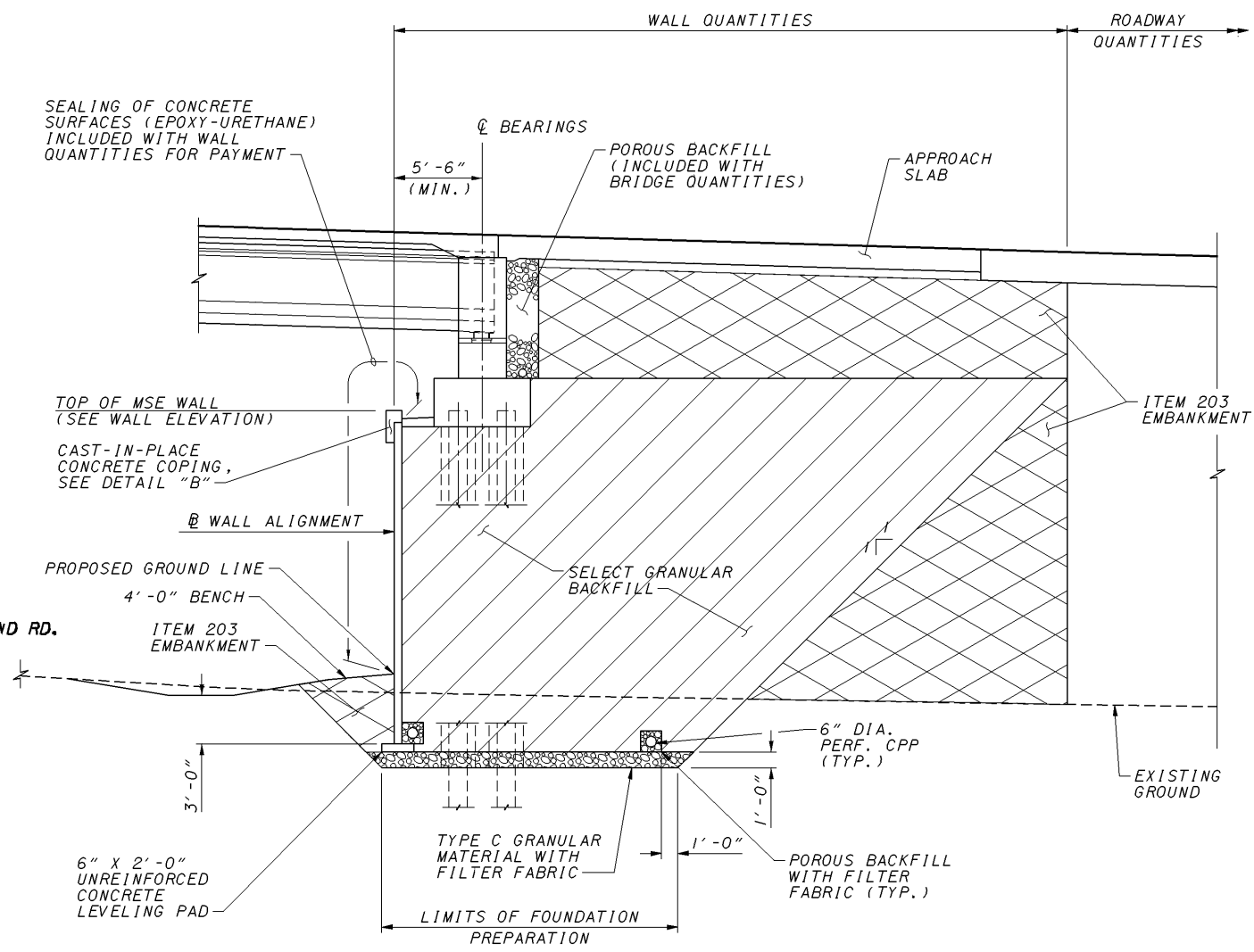
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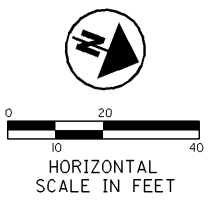
MSE WALL NO. 1
SECTION A-A
SEE SHEET 9



MSE WALL NO. 2
SECTION B-B
SEE SHEET 9

NOTE:
FOR DETAIL "B", SEE SHEET 30.

DATE	11/07
REVIEWED	SKT
STRUCTURE FILE NUMBER	
DRAWN	JBA
REVISED	
DESIGNED	JBA
CHECKED	DGS

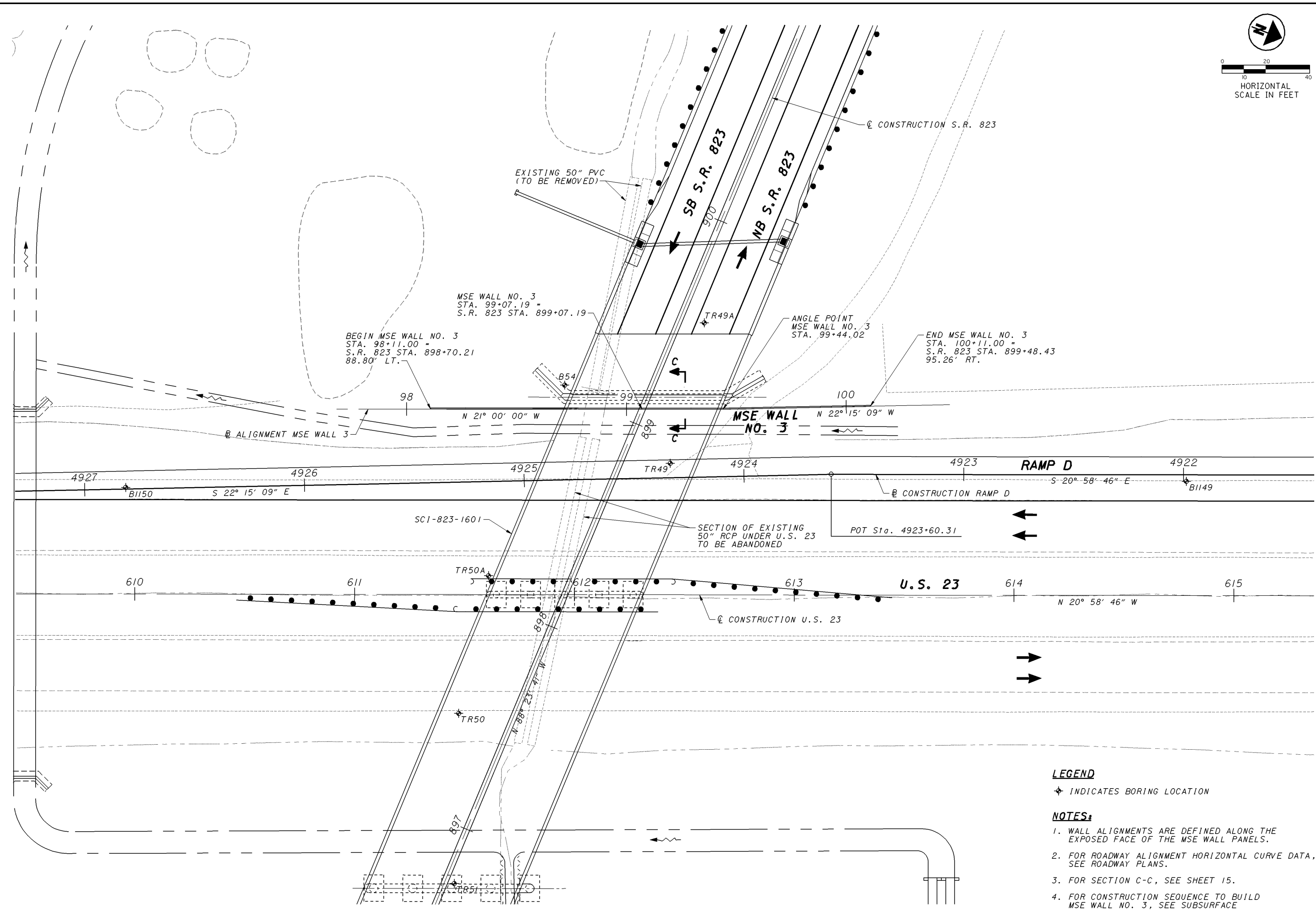


DESIGNED	JBA	CHECKED	DGS
DRAWN	JBA	REVISED	
REVIEWED	SKT	STRUCTURE FILE NUMBER	
DATE	11/07		

MSE WALL 3 PLAN VIEW

SCI-823-10.13
 PID 79977

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 \\varies\PlanSets-400_sci823_half.pen
 melben
 19415_003WB001.dgn



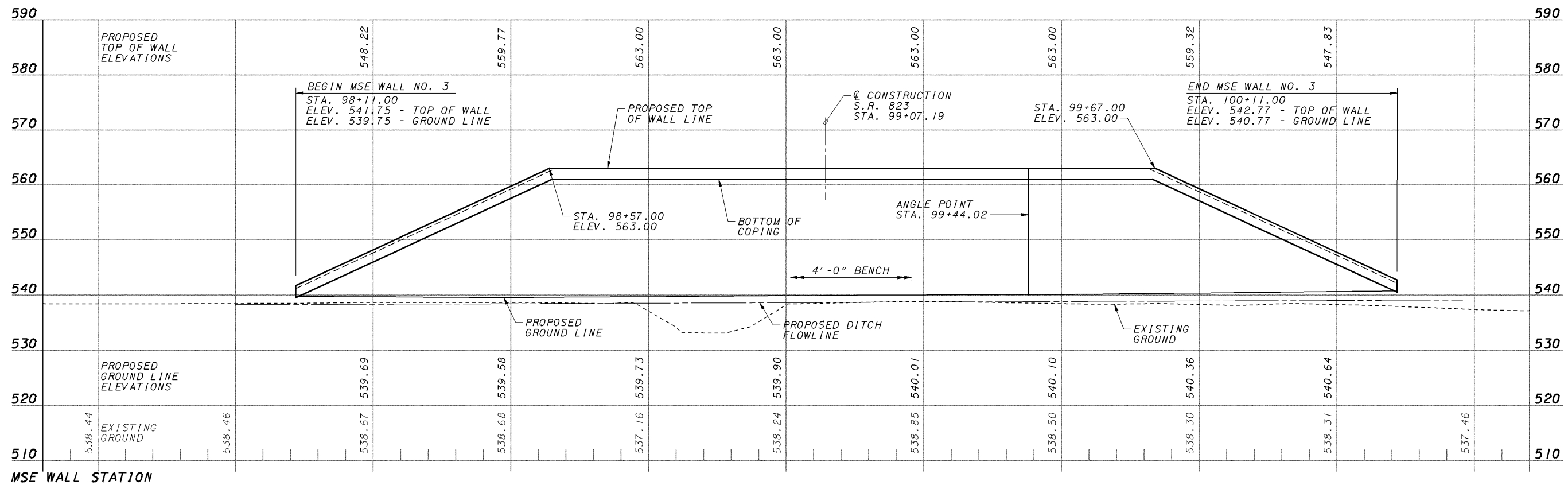
LEGEND

◆ INDICATES BORING LOCATION

NOTES:

1. WALL ALIGNMENTS ARE DEFINED ALONG THE EXPOSED FACE OF THE MSE WALL PANELS.
2. FOR ROADWAY ALIGNMENT HORIZONTAL CURVE DATA, SEE ROADWAY PLANS.
3. FOR SECTION C-C, SEE SHEET 15.
4. FOR CONSTRUCTION SEQUENCE TO BUILD MSE WALL NO. 3, SEE SUBSURFACE EXPLORATION REPORT.

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9:50 AM
\\varies\PlanSets-400_sci823_half.pen



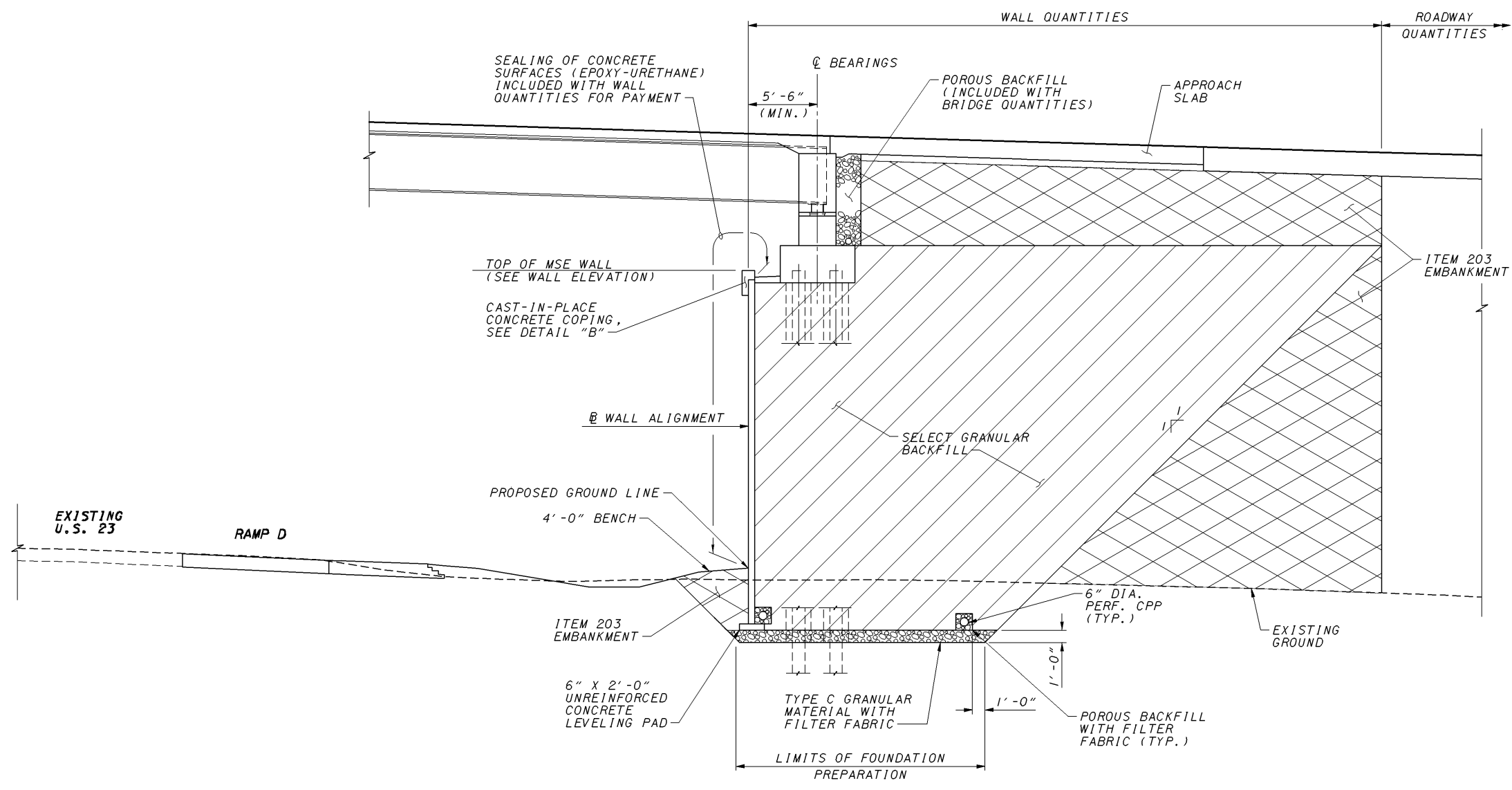
NOTES:

- MSE WALL ELEVATIONS ARE SHOWN VIEWED FROM THE EXPOSED FACE OF THE WALL.
- FOR DEFINITION OF MSE WALL TOP AND BOTTOM ELEVATIONS, SEE WALL SECTION ON SHEET 15.

\\aries\PlanSets-400_sci823_half.pen

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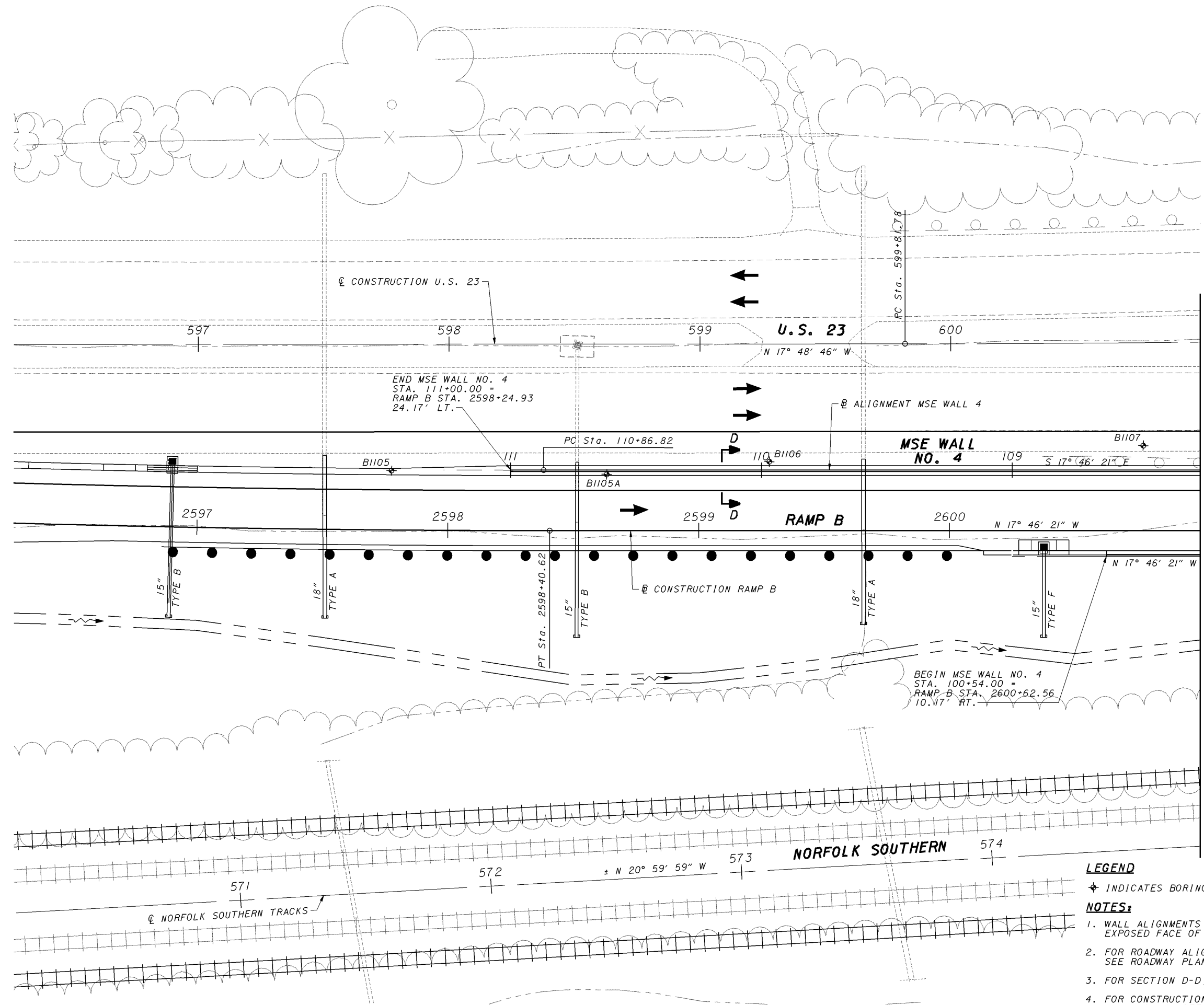
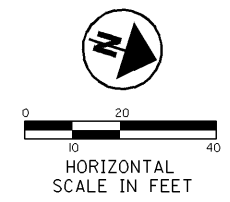
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MSE WALL NO. 3
 SECTION C-C
 SEE SHEET 13

NOTE:
 FOR DETAIL "B", SEE SHEET 30.

DESIGN AGENCY CH2MHILL Perimeter Drive, Suite 100 Dublin, Ohio 43017	
DATE 11/07	STRUCTURE FILE NUMBER
REVIEWED SKT	DESIGNED JBA
DRAWN JBA	CHECKED DGS
REVISED	REVISIONS
MSE WALL SECTION MSE WALL NO. 3	
SCI-823-10.13 PID 79977	
15 / 30	
785	



RAMP B MATCH LINE STA. 2601+00.
SEE SHEET 17

LEGEND

◆ INDICATES BORING LOCATION

NOTES:

1. WALL ALIGNMENTS ARE DEFINED ALONG THE EXPOSED FACE OF THE MSE WALL PANELS.
2. FOR ROADWAY ALIGNMENT HORIZONTAL CURVE DATA, SEE ROADWAY PLANS.
3. FOR SECTION D-D, SEE SHEET 21.
4. FOR CONSTRUCTION SEQUENCE TO BUILD MSE WALL NO. 4, SEE SUBSURFACE EXPLORATION REPORT.

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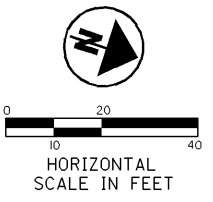
DESIGNED	JBA	CHECKED	DGS
DRAWN	JBA	REVISED	
REVIEWED	SKT	STRUCTURE FILE NUMBER	
DATE	11/07		

MSE WALL 4 PLAN VIEW

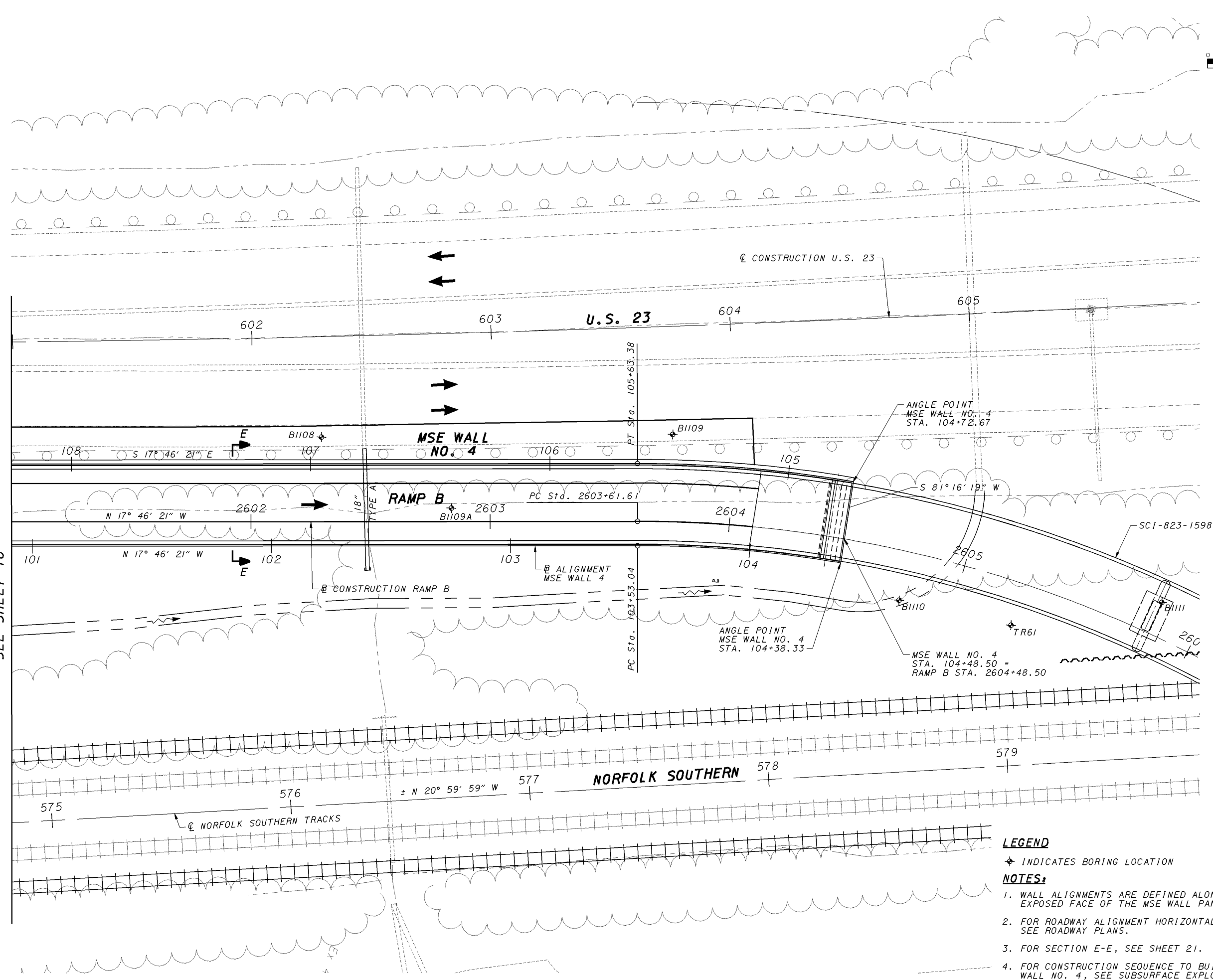
\\aries\PlanSets-400_sci823_half.pen

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RAMP B MATCH LINE STA. 2601+00, SEE SHEET 16



LEGEND

◆ INDICATES BORING LOCATION

NOTES:

1. WALL ALIGNMENTS ARE DEFINED ALONG THE EXPOSED FACE OF THE MSE WALL PANELS.
2. FOR ROADWAY ALIGNMENT HORIZONTAL CURVE DATA, SEE ROADWAY PLANS.
3. FOR SECTION E-E, SEE SHEET 21.
4. FOR CONSTRUCTION SEQUENCE TO BUILD MSE WALL NO. 4, SEE SUBSURFACE EXPLORATION REPORT.

DESIGNED	JBA	CHECKED	DGS
DRAWN	JBA	REVISED	
REVIEWED	SKT	STRUCTURE FILE NUMBER	
DATE	11/07		

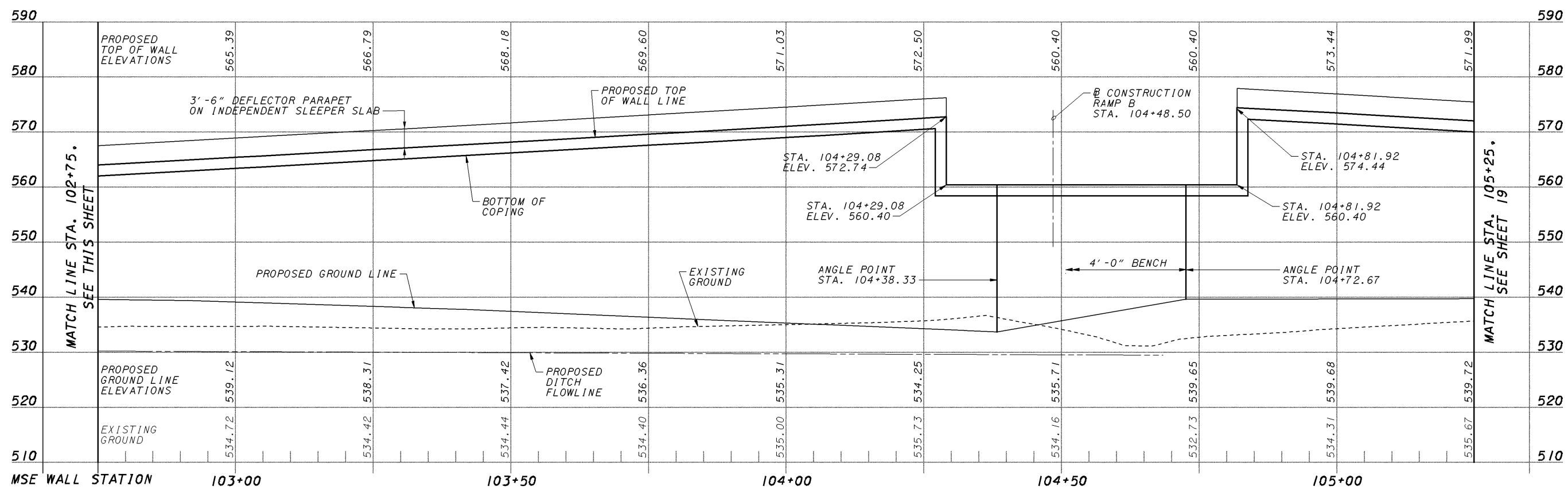
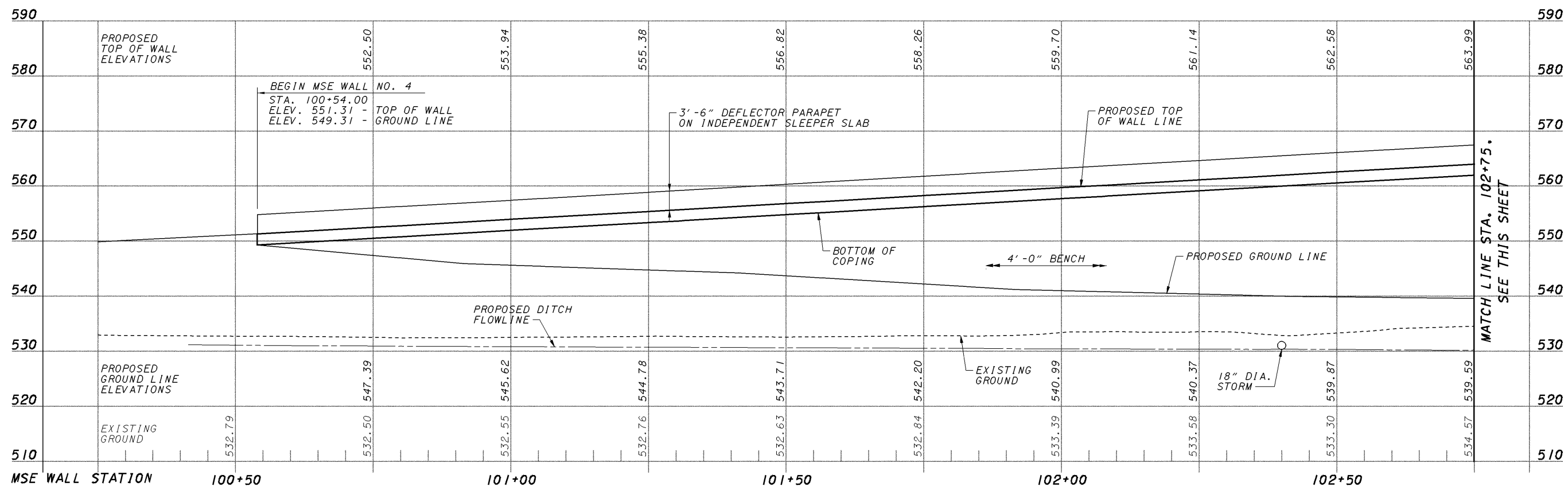
MSE WALL 4 PLAN VIEW

SCI-823-10.13
PID 79977

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NOTES:

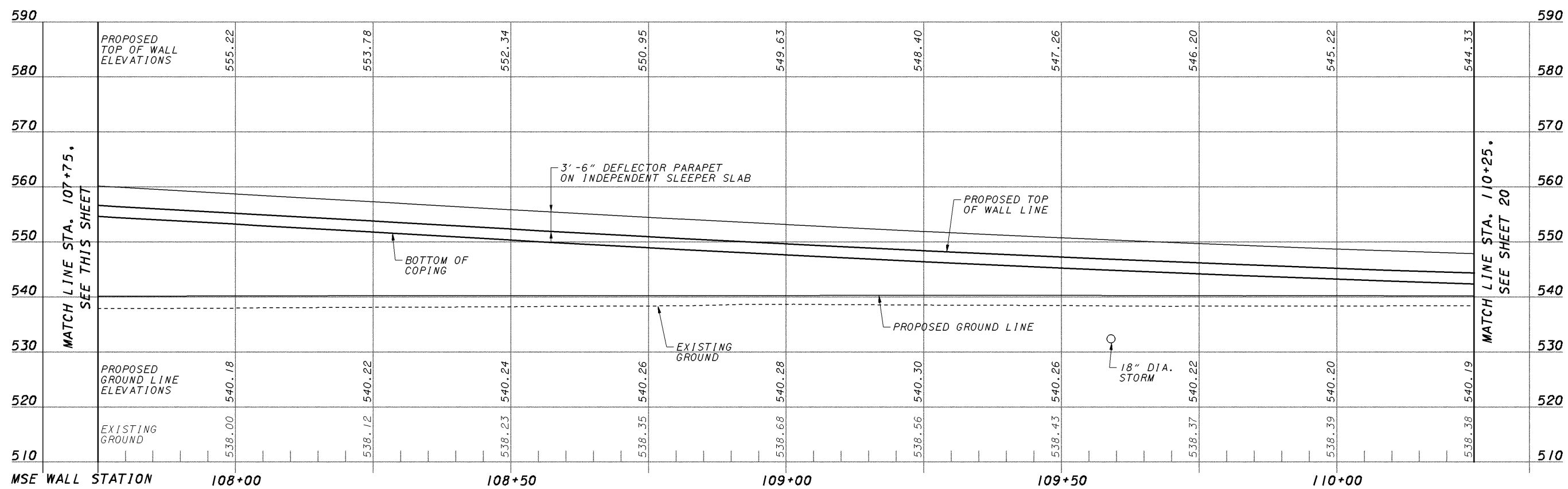
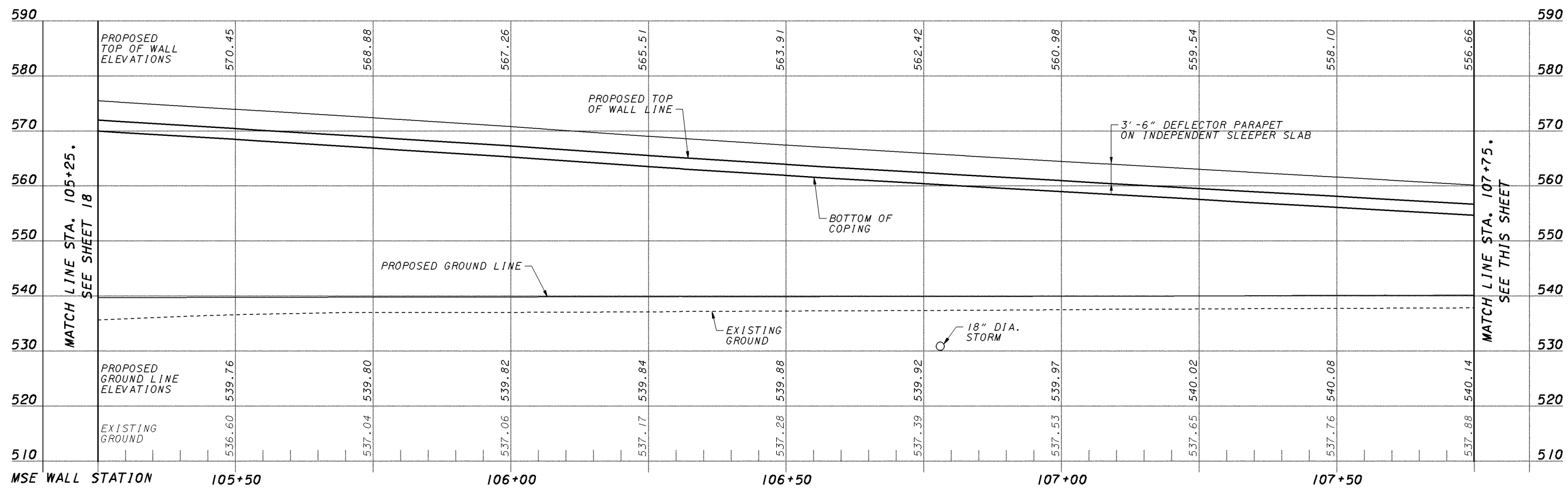
1. MSE WALL ELEVATIONS ARE SHOWN VIEWED FROM THE EXPOSED FACE OF THE WALL.
2. FOR DEFINITION OF MSE WALL TOP AND BOTTOM ELEVATIONS, SEE WALL SECTIONS ON SHEET 21.

DESIGNED	JBA	CHECKED	DGS
DRAWN	JBA	REVISED	
REVIEWED	SKT	STRUCTURE FILE NUMBER	
DATE	11/07		

WALL ELEVATION - MSE WALL NO. 4

SCI-823-10.13
PID 79977

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NOTES:

1. MSE WALL ELEVATIONS ARE SHOWN VIEWED FROM THE EXPOSED FACE OF THE WALL.
2. FOR DEFINITION OF MSE WALL TOP AND BOTTOM ELEVATIONS, SEE WALL SECTIONS ON SHEET 21.

DESIGN AGENCY
CH2MHILL
Perimeter Drive, Suite 100
Dublin, Ohio 43017

DESIGNED	JBA	CHECKED	DGS
DRAWN	JBA	REVISED	
REVIEWED	SKT	STRUCTURE FILE NUMBER	
DATE	11/07		

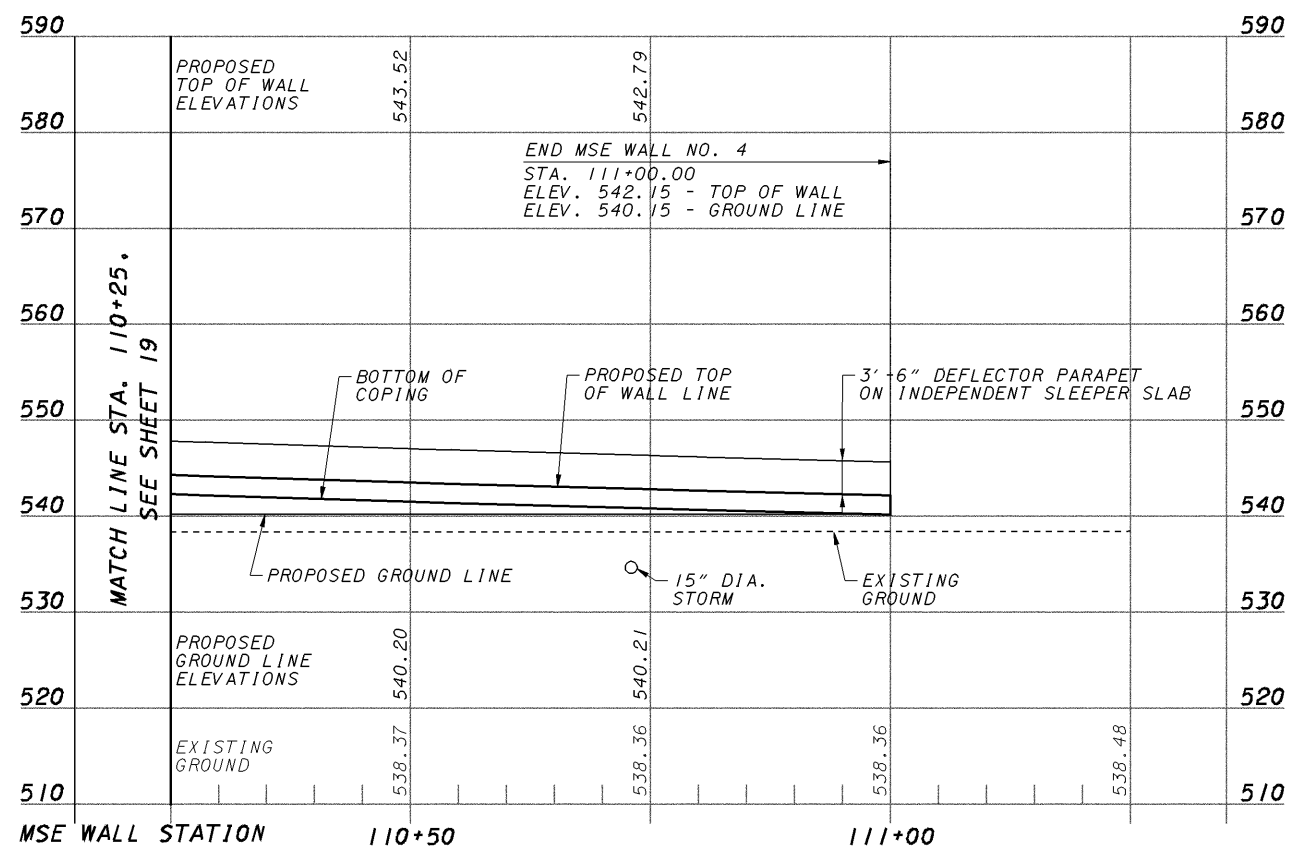
WALL ELEVATION - MSE WALL NO. 4

SCI-823-10.13
PID 79977

19/30

789

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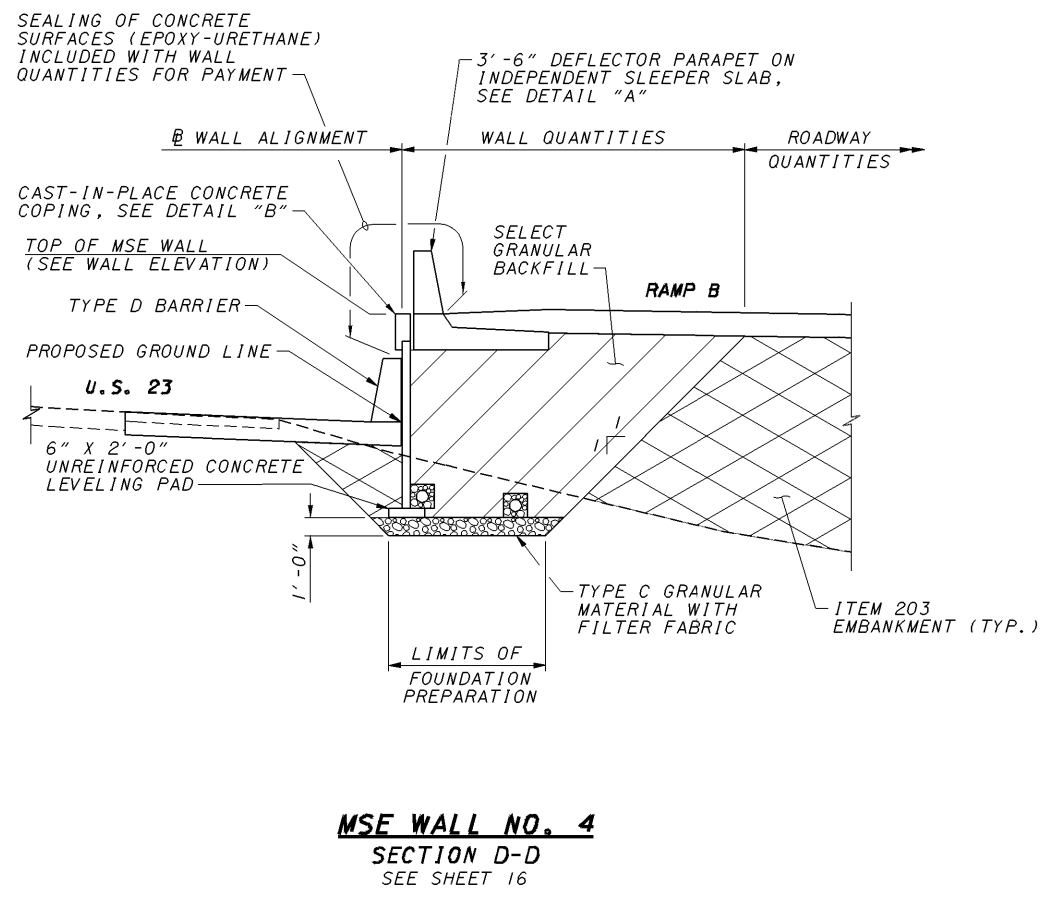
NOTES:

1. MSE WALL ELEVATIONS ARE SHOWN VIEWED FROM THE EXPOSED FACE OF THE WALL.
2. FOR DEFINITION OF MSE WALL TOP AND BOTTOM ELEVATIONS, SEE WALL SECTIONS ON SHEET '21'.

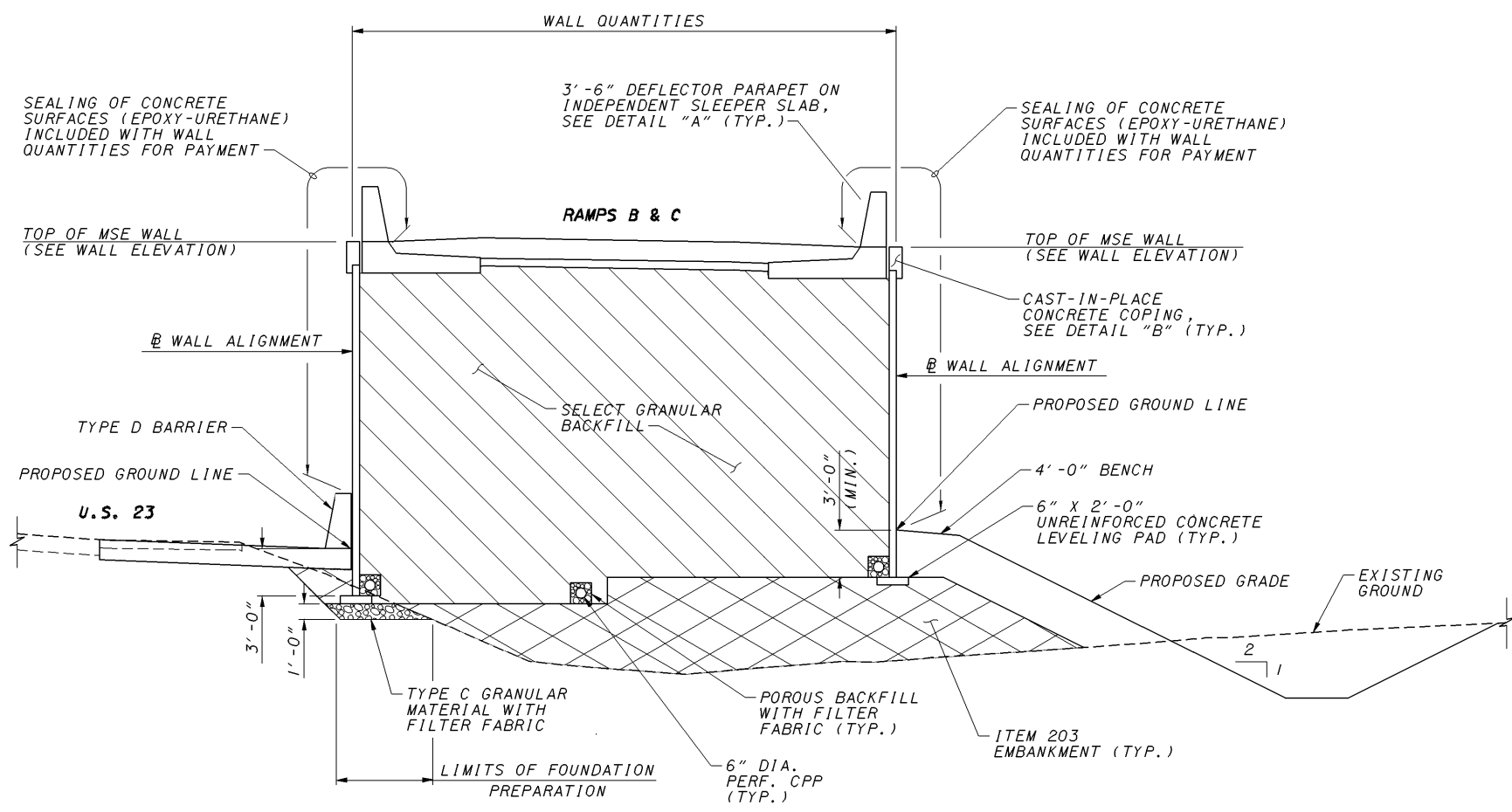
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MSE WALL NO. 4
SECTION D-D
SEE SHEET 16



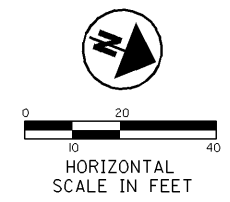
MSE WALL NOS. 4 & 5
SECTION E-E
SEE SHEETS 17, 22, & 23

NOTE:
FOR DETAILS "A" AND "B", SEE SHEET 30.

DATE	11/07
REVIEWED	SKT
STRUCTURE FILE NUMBER	
DRAWN	JBA
REVISED	
DESIGNED	JBA
CHECKED	DGS

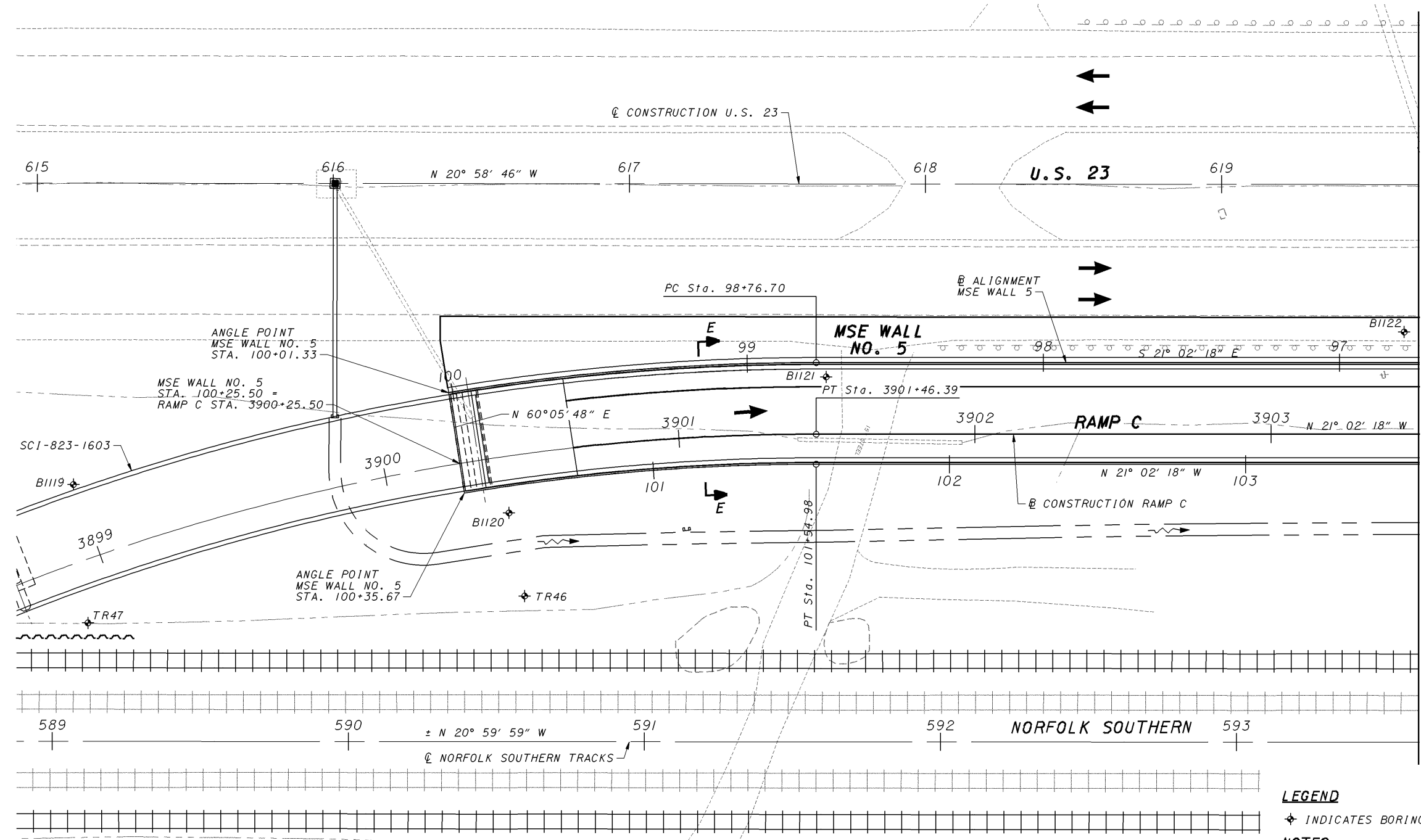
MSE WALL SECTIONS
MSE WALL NOS. 4 AND 5

SCI-823-10.13
PID 79977



DESIGNED	JBA	CHECKED	DGS
DRAWN	JBA	REVISED	
REVIEWED	SKT	STRUCTURE FILE NUMBER	
DATE	11/07		

MSE WALL 5 PLAN VIEW



RAMP C MATCH LINE STA. 3903+50.
 SEE SHEET 23

LEGEND

◆ INDICATES BORING LOCATION

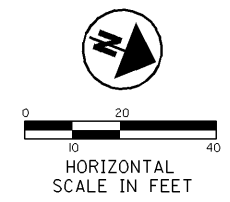
NOTES:

1. WALL ALIGNMENTS ARE DEFINED ALONG THE EXPOSED FACE OF THE MSE WALL PANELS.
2. FOR ROADWAY ALIGNMENT HORIZONTAL CURVE DATA, SEE ROADWAY PLANS.
3. FOR SECTION E-E, SEE SHEET 21.
4. FOR CONSTRUCTION SEQUENCE TO BUILD MSE WALL NO. 5, SEE SUBSURFACE EXPLORATION REPORT.

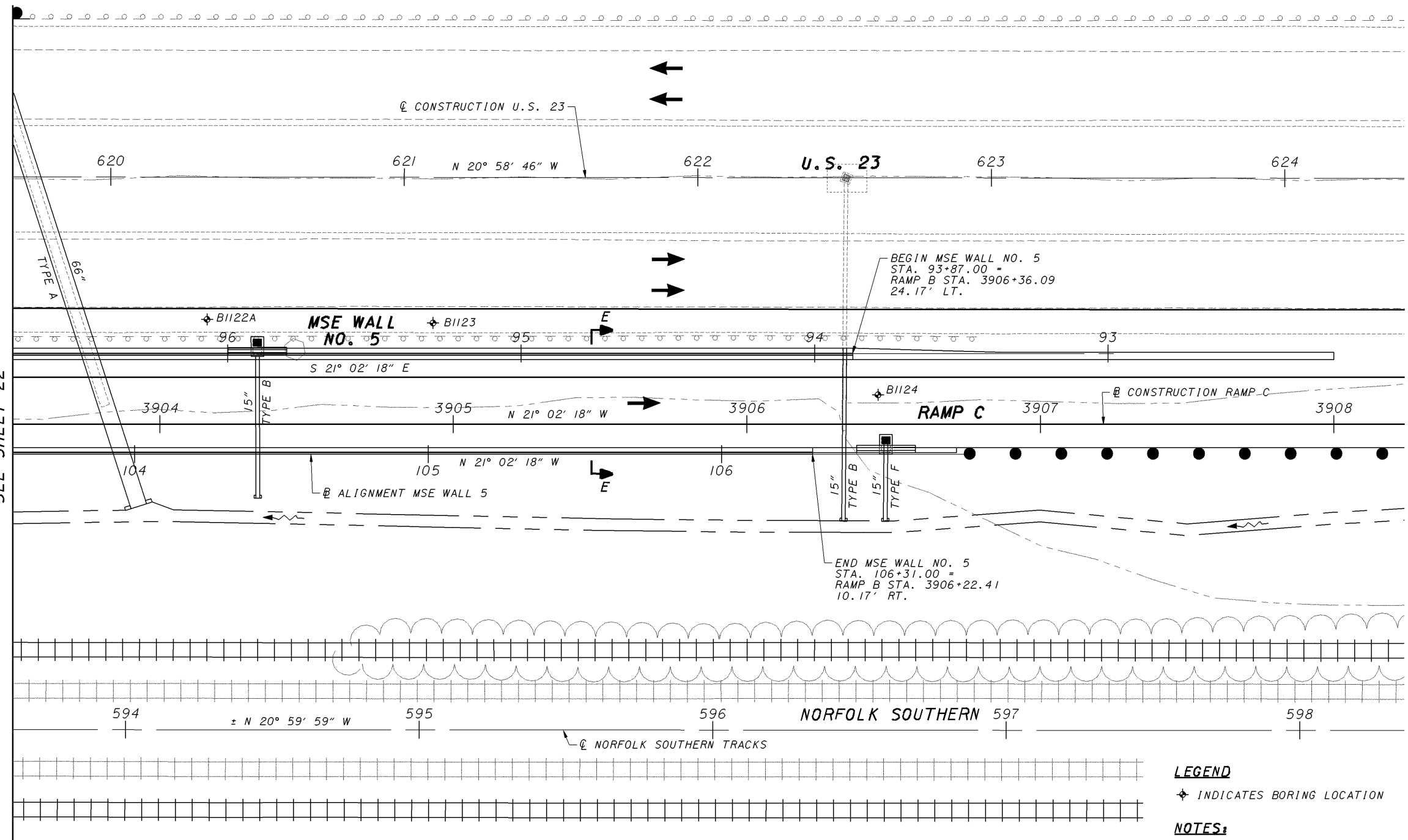
\\aries\PlanSets-400_sci823_half.pen

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RAMP C MATCH LINE STA. 3903+50,
 SEE SHEET 22



LEGEND

◆ INDICATES BORING LOCATION

NOTES:

1. WALL ALIGNMENTS ARE DEFINED ALONG THE EXPOSED FACE OF THE MSE WALL PANELS.
2. FOR ROADWAY ALIGNMENT HORIZONTAL CURVE DATA, SEE ROADWAY PLANS.
3. FOR SECTION E-E, SEE SHEET 21.
4. FOR CONSTRUCTION SEQUENCE TO BUILD MSE WALL NO. 5, SEE SUBSURFACE EXPLORATION REPORT.

\\aries\PlanSets-400_sci823_half.pen

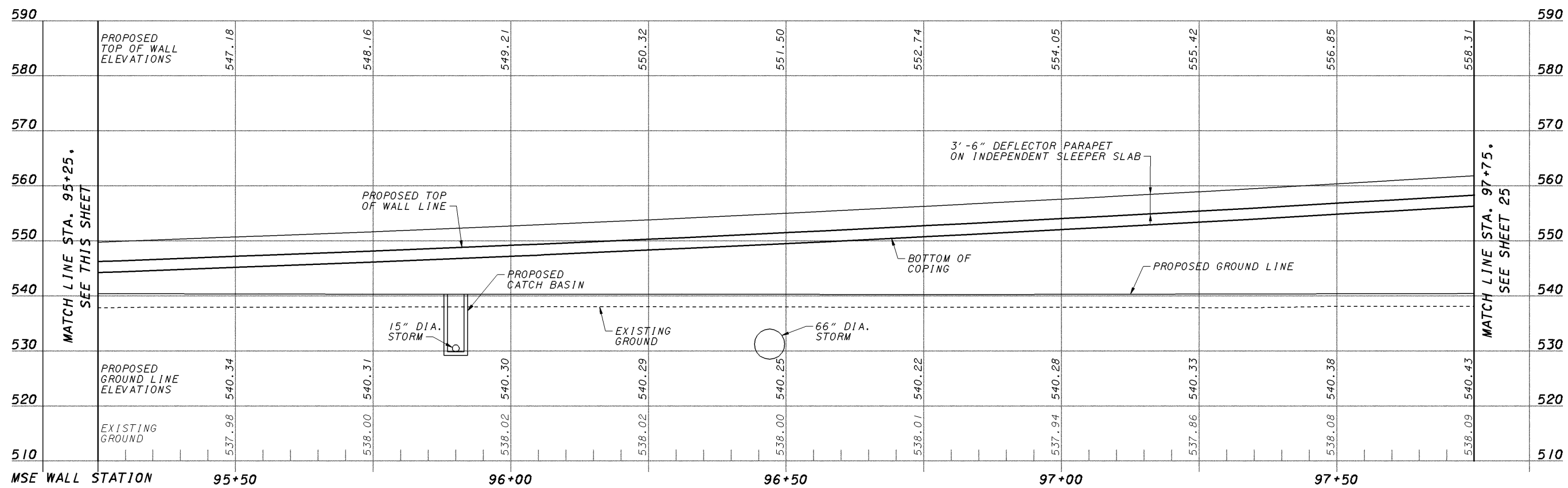
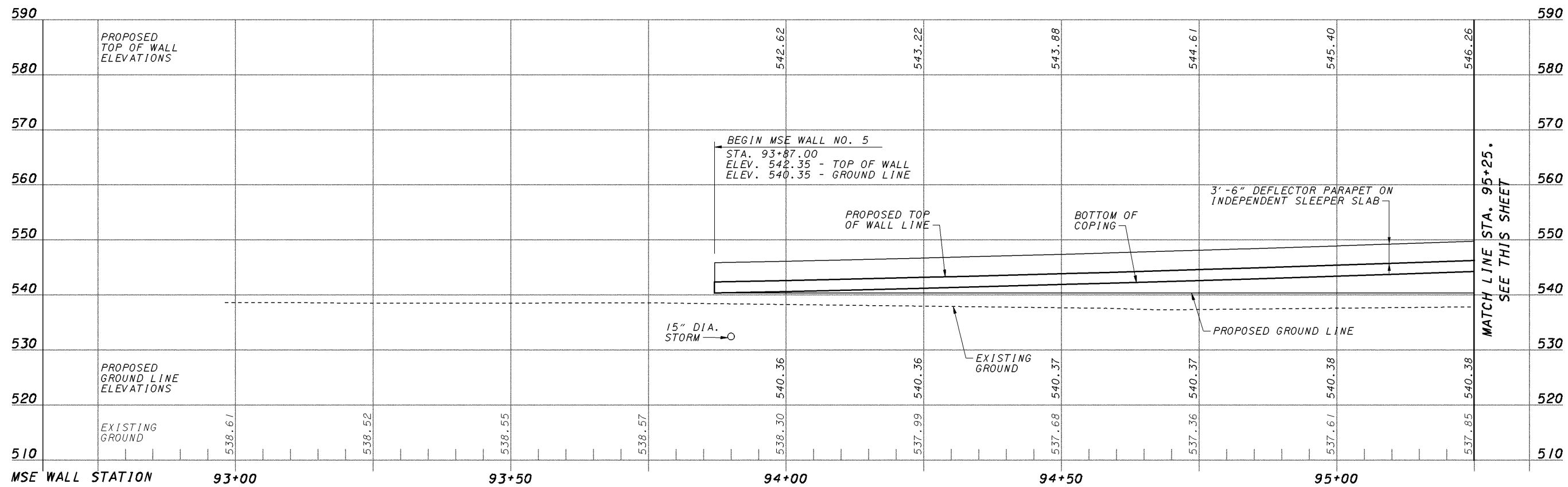
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NOTES:

- MSE WALL ELEVATIONS ARE SHOWN VIEWED FROM THE EXPOSED FACE OF THE WALL.
- FOR DEFINITION OF MSE WALL TOP AND BOTTOM ELEVATIONS, SEE WALL SECTION ON SHEET 21.

DESIGNED	DATE	REVIEWED	DATE
JBA	11/07	SKT	11/07
CHECKED <th>STRUCTURE FILE NUMBER</th> <td>DGS</td> <td></td>	STRUCTURE FILE NUMBER	DGS	
	5775		

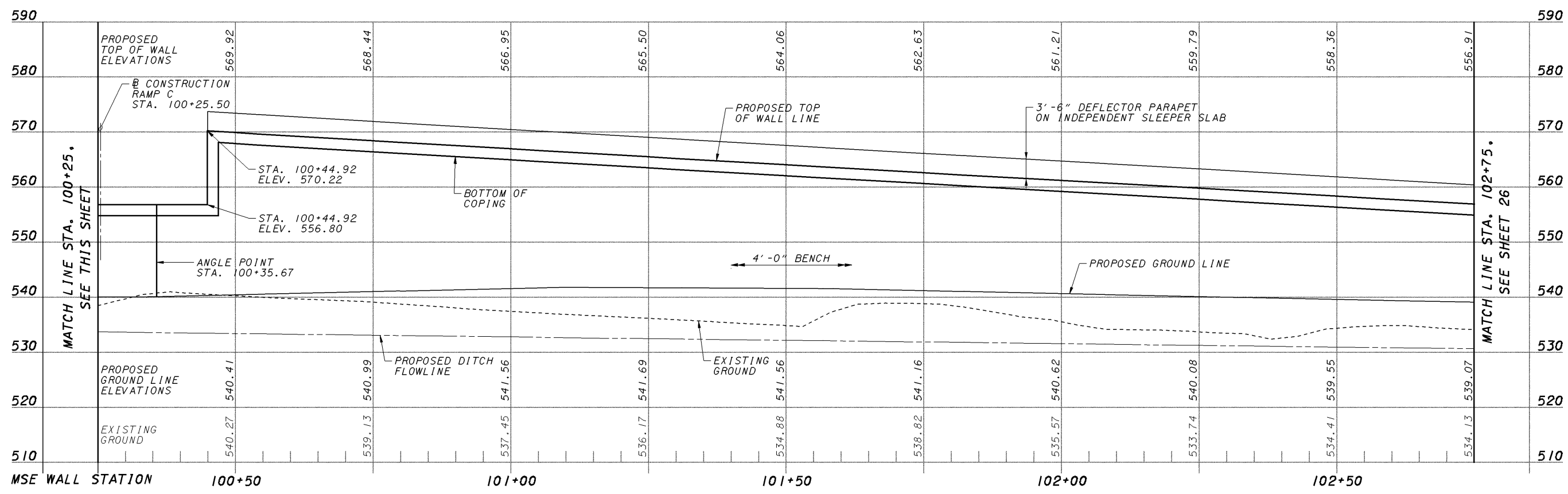
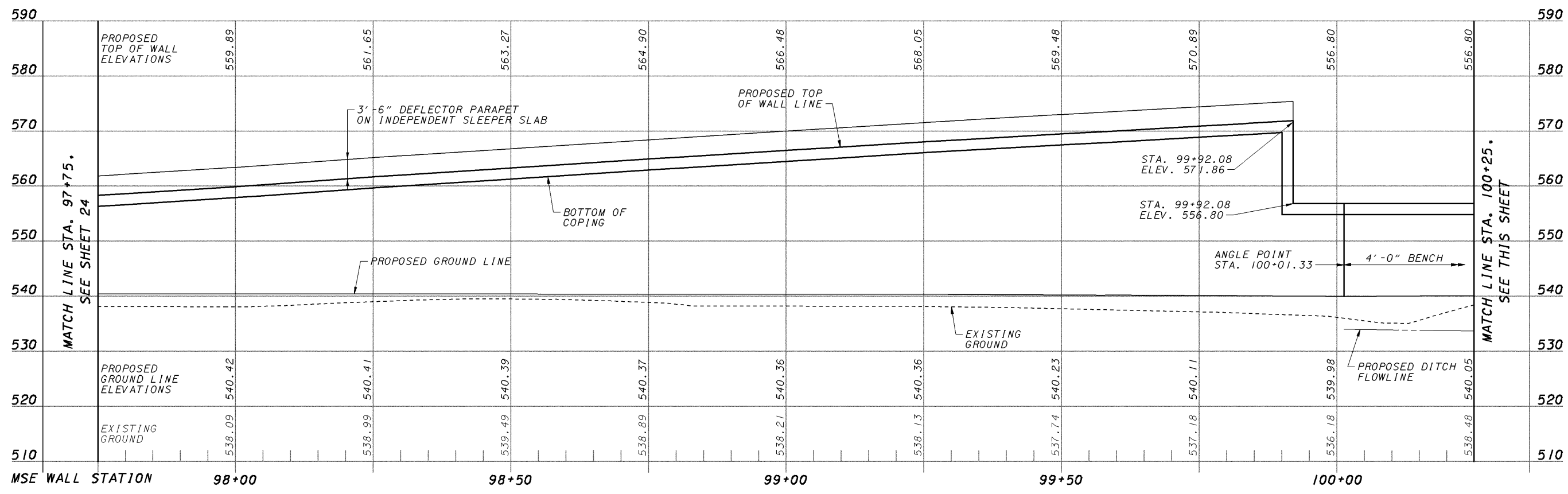
WALL ELEVATION - MSE WALL NO. 5

SCI-823-10.13
 PID 79977

\\aries\plansets-400_sci823_half.pen

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NOTES:

- MSE WALL ELEVATIONS ARE SHOWN VIEWED FROM THE EXPOSED FACE OF THE WALL.
- FOR DEFINITION OF MSE WALL TOP AND BOTTOM ELEVATIONS, SEE WALL SECTION ON SHEET 21.

DESIGN AGENCY: **CH2MHILL**
 5775 Perimeter Drive, Suite 100
 Dublin, Ohio 43017

DATE: 11/07
 SKT: 11/07
 STRUCTURE FILE NUMBER: 5775

DESIGNED: JBA
 CHECKED: DGS

DRAWN: JBA
 REVISED:

REVIEWED: SKT

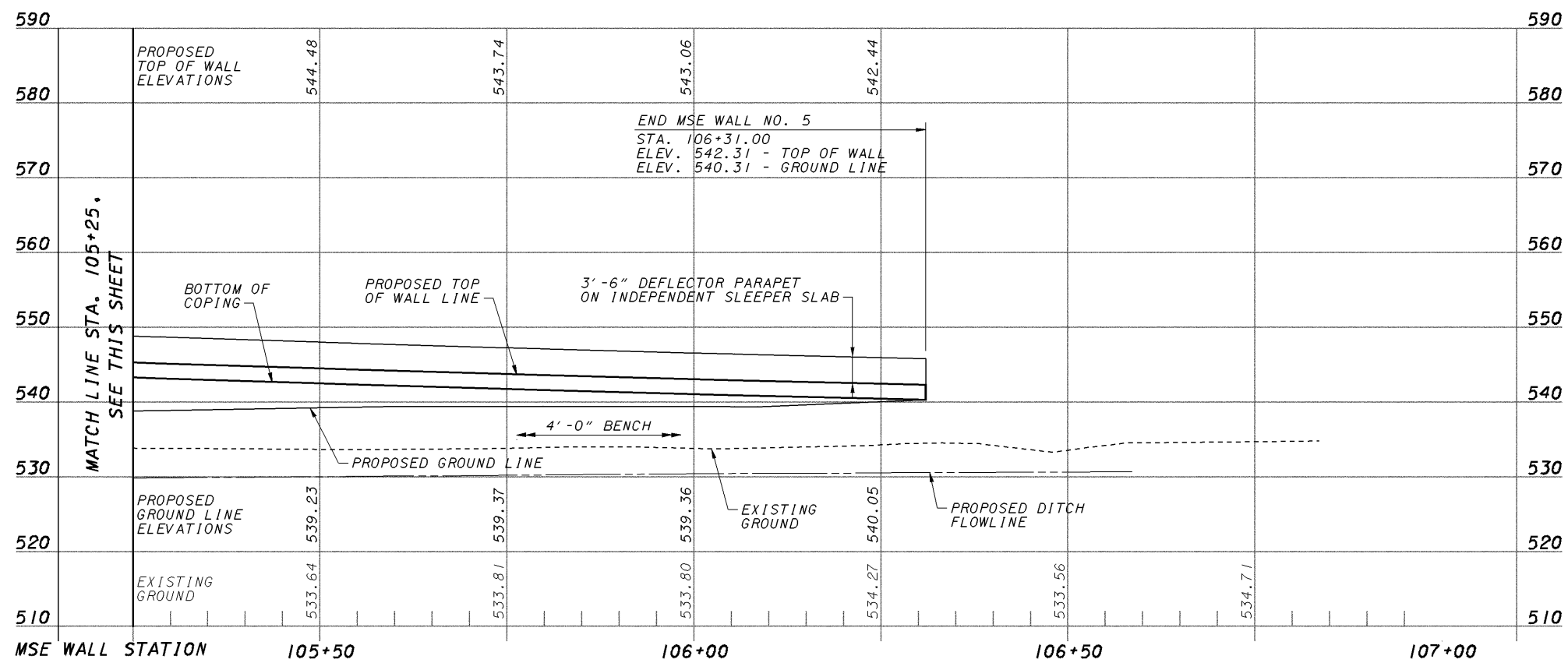
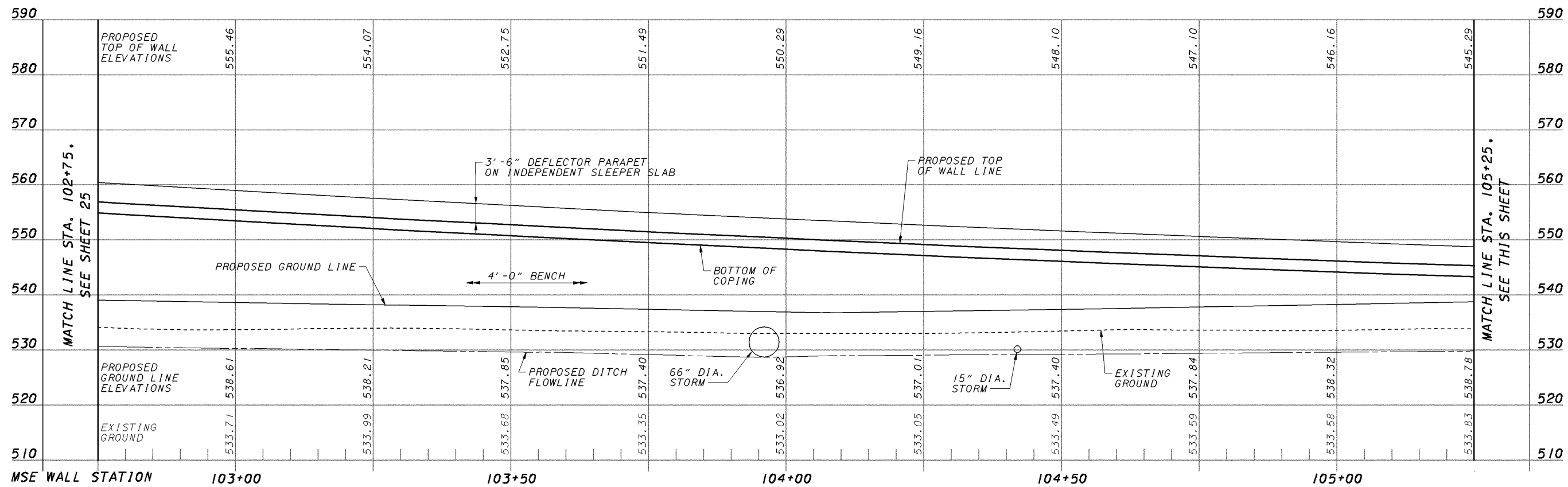
WALL ELEVATION - MSE WALL NO. 5

SCI-823-10.13
 PID 79977

25/30

795

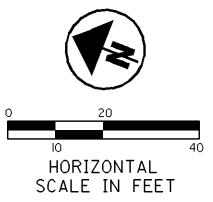
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NOTES:

- MSE WALL ELEVATIONS ARE SHOWN VIEWED FROM THE EXPOSED FACE OF THE WALL.
- FOR DEFINITION OF MSE WALL TOP AND BOTTOM ELEVATIONS, SEE WALL SECTION ON SHEET 21.

DESIGNED		DATE	REVIEWED	DATE	DESIGN AGENCY
JBA	JBA	11/07	SKT	11/07	CH2MHILL
CHECKED	REVISOR	FILE NUMBER	STRUCTURE	FILE NUMBER	Perimeter Drive, Suite 100
DGS					Dublin, Ohio 43017
WALL ELEVATION - MSE WALL NO. 5					
SCI-823-10.13 PID 79977					
26/30					
796					



DESIGNED	JBA	CHECKED	DGS
DRAWN	JBA	REVISED	
REVIEWED	SKT	STRUCTURE FILE NUMBER	
DATE	11/07		

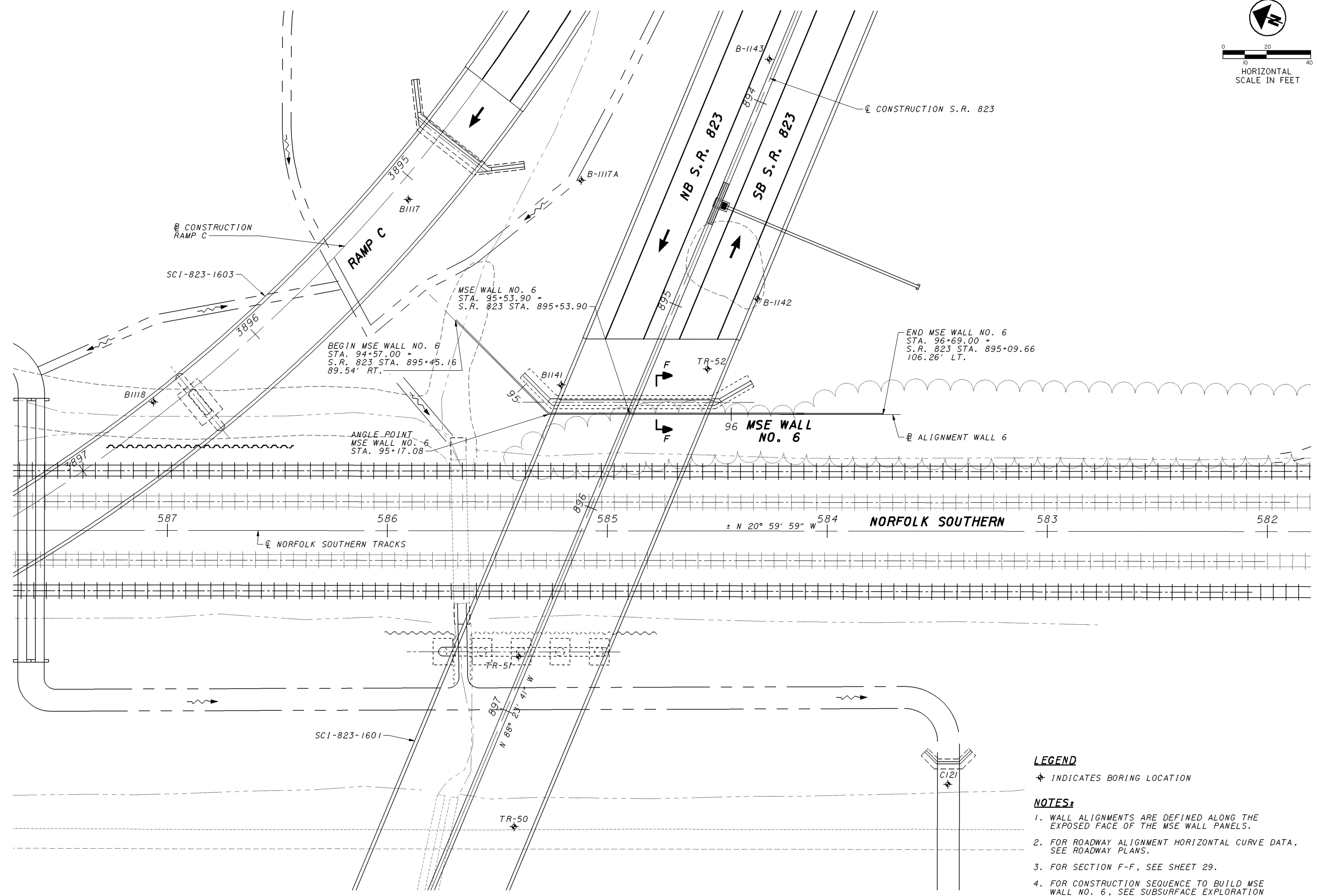
MSE WALL 6 PLAN VIEW

SCI-823-10.13
 PID 79977

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LEGEND

★ INDICATES BORING LOCATION

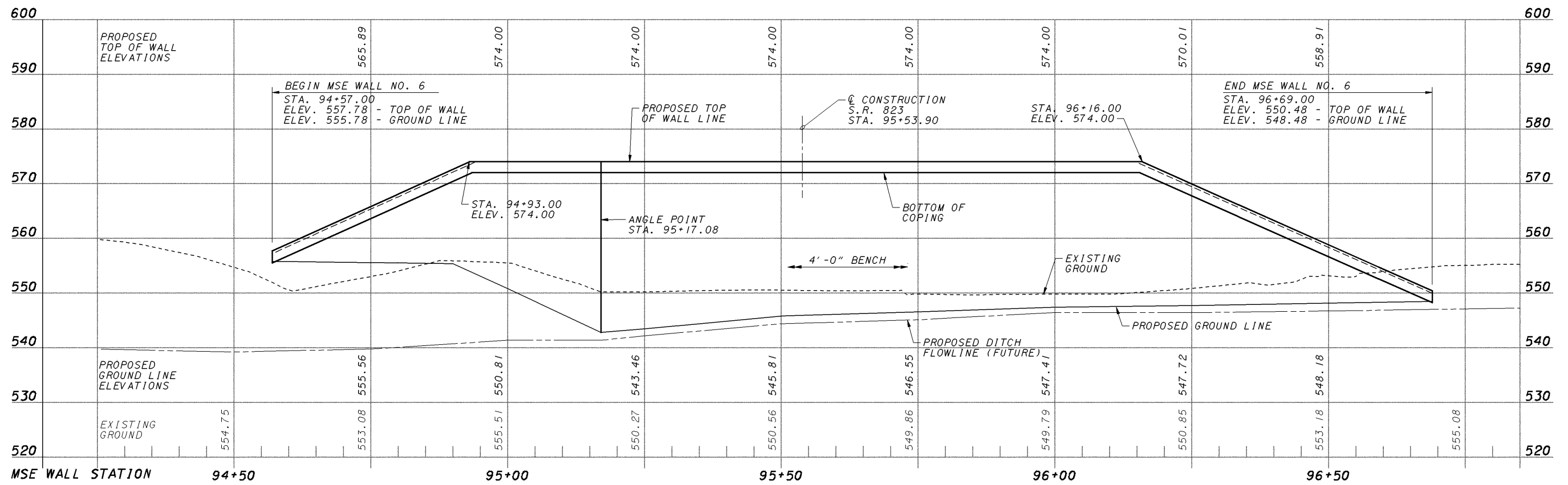
NOTES:

1. WALL ALIGNMENTS ARE DEFINED ALONG THE EXPOSED FACE OF THE MSE WALL PANELS.
2. FOR ROADWAY ALIGNMENT HORIZONTAL CURVE DATA, SEE ROADWAY PLANS.
3. FOR SECTION F-F, SEE SHEET 29.
4. FOR CONSTRUCTION SEQUENCE TO BUILD MSE WALL NO. 6, SEE SUBSURFACE EXPLORATION REPORT.

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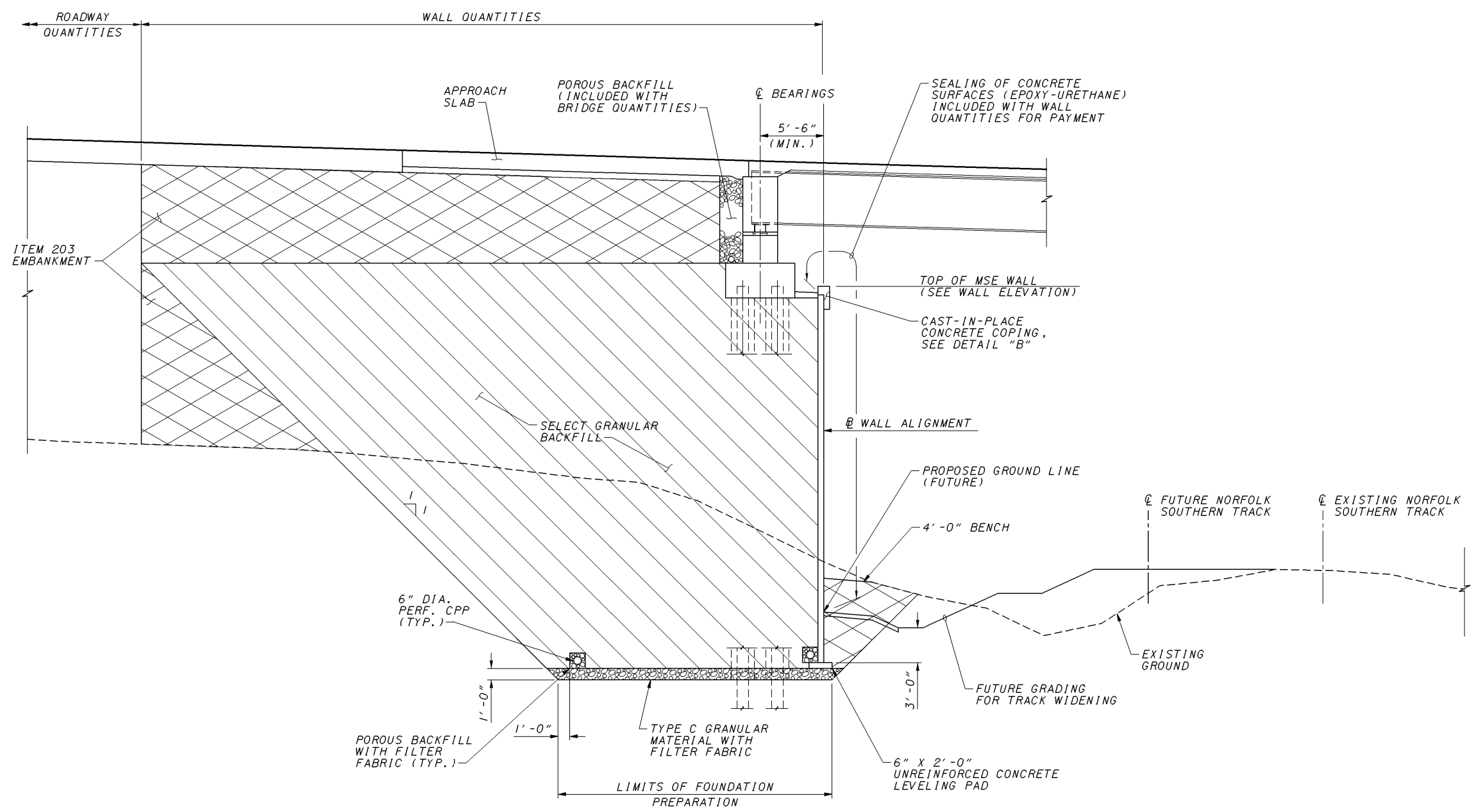
NOTES:

1. MSE WALL ELEVATIONS ARE SHOWN VIEWED FROM THE EXPOSED FACE OF THE WALL.
2. FOR DEFINITION OF MSE WALL TOP AND BOTTOM ELEVATIONS, SEE WALL SECTION ON SHEET 29.

\\aries\PlanSets-400_sci823_half.pen

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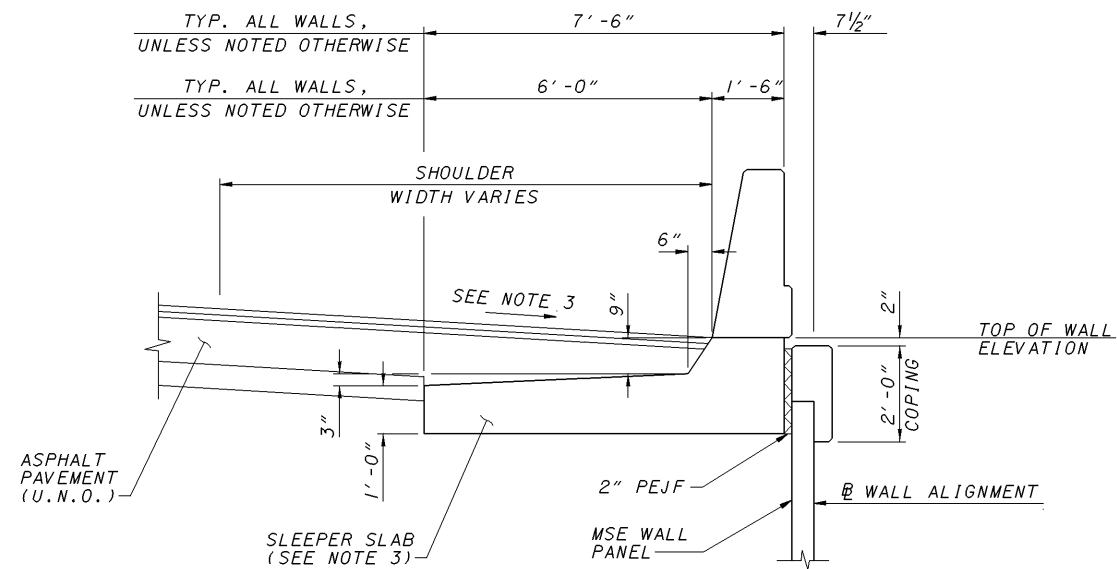
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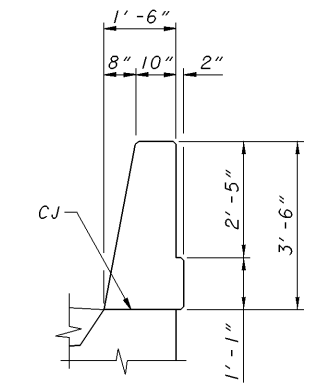
MSE WALL NO. 6
SECTION F-F
SEE SHEET 27

NOTE:
FOR DETAIL "B", SEE SHEET 30.

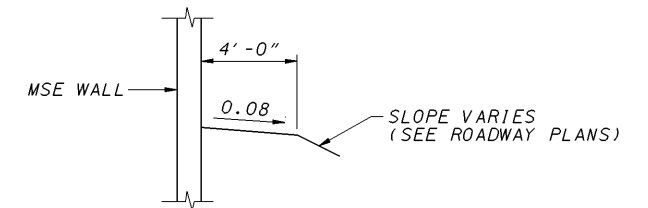
DESIGNED	JBA	CHECKED	DGS
DRAWN	JBA	REVISED	
REVIEWED	SKT	STRUCTURE FILE NUMBER	
DATE	11/07		



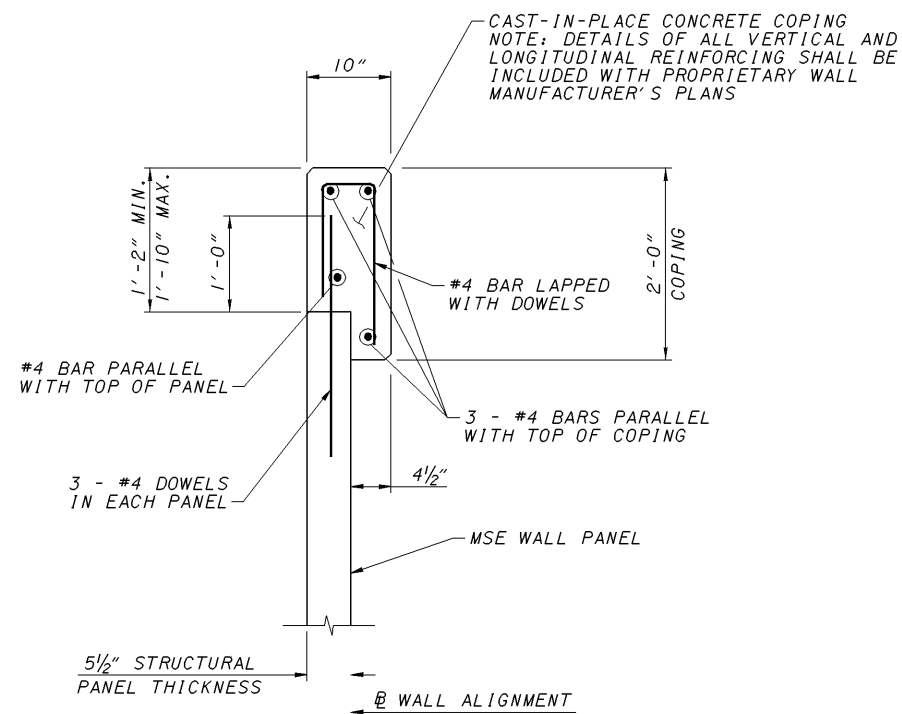
DETAIL "A"
3'-6" DEFLECTOR PARAPET
ON INDEPENDENT SLEEPER SLAB



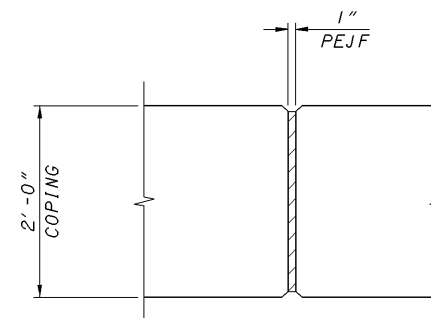
**TYPICAL MSE WALL
DEFLECTOR PARAPET**



DETAIL "C"
4'-0" BENCH
WHERE SPECIFIED
ON WALL ELEVATIONS



DETAIL "B"
CAST-IN-PLACE CONCRETE COPING



COPING EXPANSION JOINT
(SEE NOTE 5)

NOTES:

1. FOR LOCATIONS OF DETAILS "A" THROUGH "C", SEE SHEETS 9-29.
2. ALL CONSTRUCTION JOINTS ARE LEVEL UNLESS OTHERWISE NOTED.
3. FOR PAVEMENT CONSTRUCTION ABOVE SLEEPER SLAB, SEE ROADWAY PLANS.
4. ALL COPING REINFORCING STEEL SHALL BE EPOXY COATED.
5. COPING JOINTS SHALL ALIGN WITH JOINTS BETWEEN MSE WALL PANELS. COPING JOINTS SHALL NOT BE LOCATED MORE THAN 20 FEET APART. THE CONTRACTOR SHALL COORDINATE JOINT LAYOUT WITH DETAILS OF ACTUAL PROPRIETARY WALL CONSTRUCTED.

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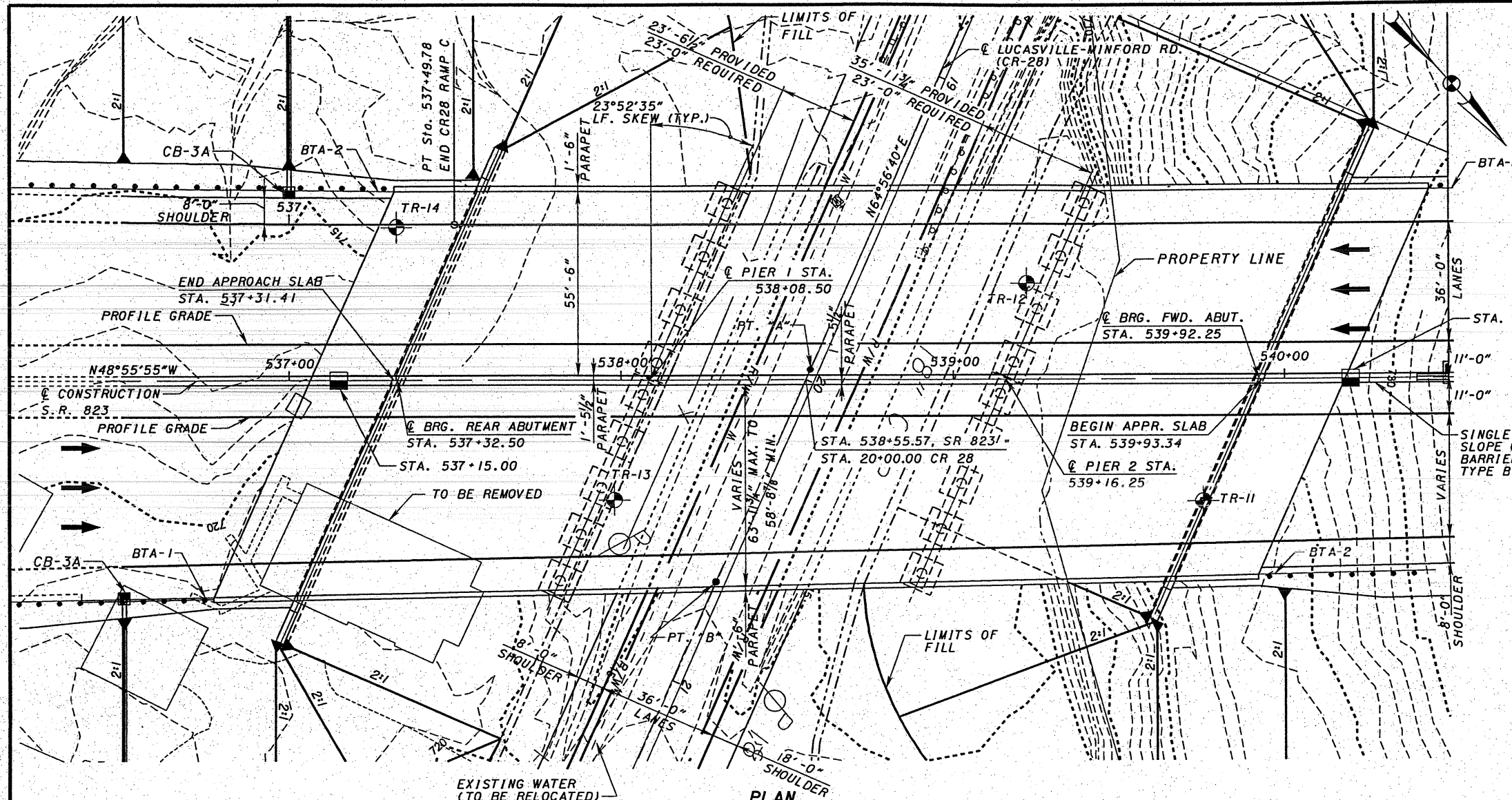
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DESIGNED	JBA	CHECKED	DGS
DRAWN	JBA	REVISED	
REVIEWED	SKT	STRUCTURE FILE NUMBER	
DATE	11/07		

MSE WALL DETAILS

SCI-823-10.13
PID 79977



BENCHMARK 1	BENCHMARK 2
(TO BE PROVIDED LATER)	(TO BE PROVIDED LATER)

TRAFFIC DATA	
(SR 823)	
CURRENT YEAR ADT (2010)	- 19,800
CURRENT YEAR ADTT (2010)	- 4752
DESIGN YEAR ADT (2030)	- 26,000
DESIGN YEAR ADTT (2030)	- 6240

TABLE OF VERTICAL CLEARANCES			
LOCATION	"A"	"B"	
PROPOSED	36.07'	34.03'	
REQUIRED	15.00'	15.00'	

FIRST GUARDRAIL POST OFF BRIDGE LOCATIONS	
LOCATION	STATION
NB REAR ABUT.	536+73.04
SB REAR ABUT.	537+27.39
NB FWD. ABUT.	539+96.17
SB FWD. ABUT.	540+47.72

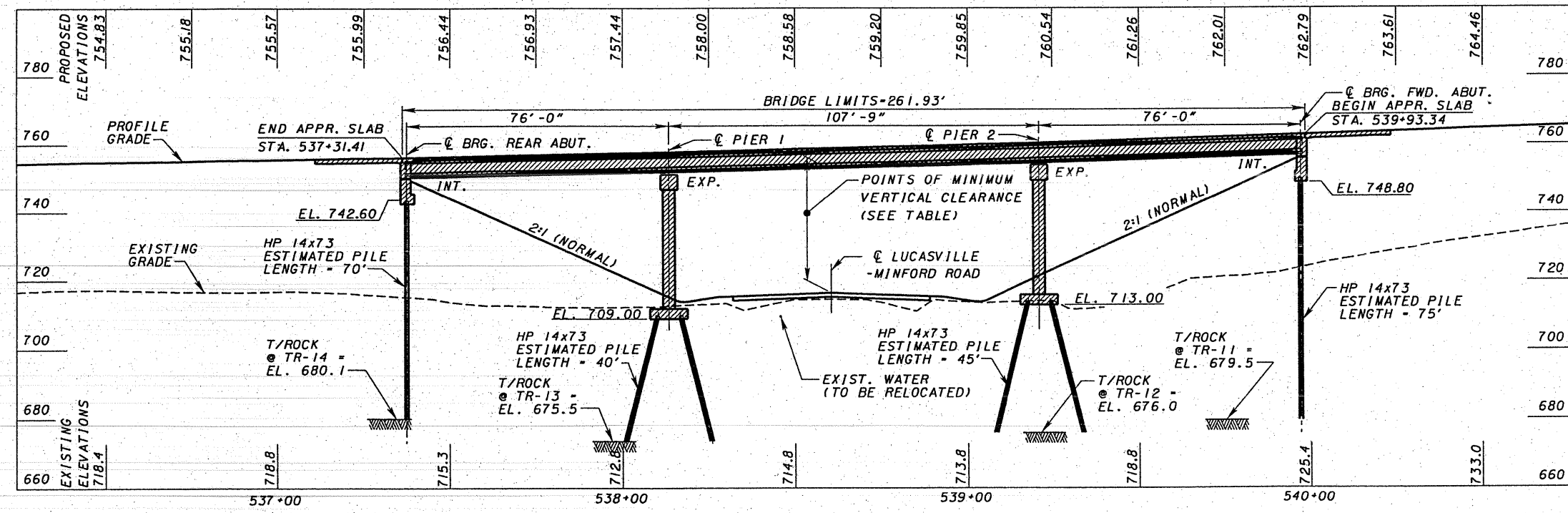
- NOTES:**
- ALL SHEETS WITH PLAN DIMENSIONS ARE SHOWN HORIZONTAL.
 - EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
 - THE PROPOSED PROFILE GRADE IS WITHIN BRIDGE LIMITS. SEE ROADWAY PLANS FOR PAVEMENT ELEVATIONS BEYOND BRIDGE LIMITS.

- LEGEND**
- BTA-1 - BRIDGE TERMINAL ASSEMBLY TYPE 1
 - BTA-2 - BRIDGE TERMINAL ASSEMBLY TYPE 2
 - ⊙ - BORING LOCATION
 - - SETTLEMENT PLATFORM

1300' VERT. CURVE DATA

P.V.I. STA. - 535+00.00
P.V.I. ELEV. 742.19
G₁ - -2.90%
G₂ - +4.00%

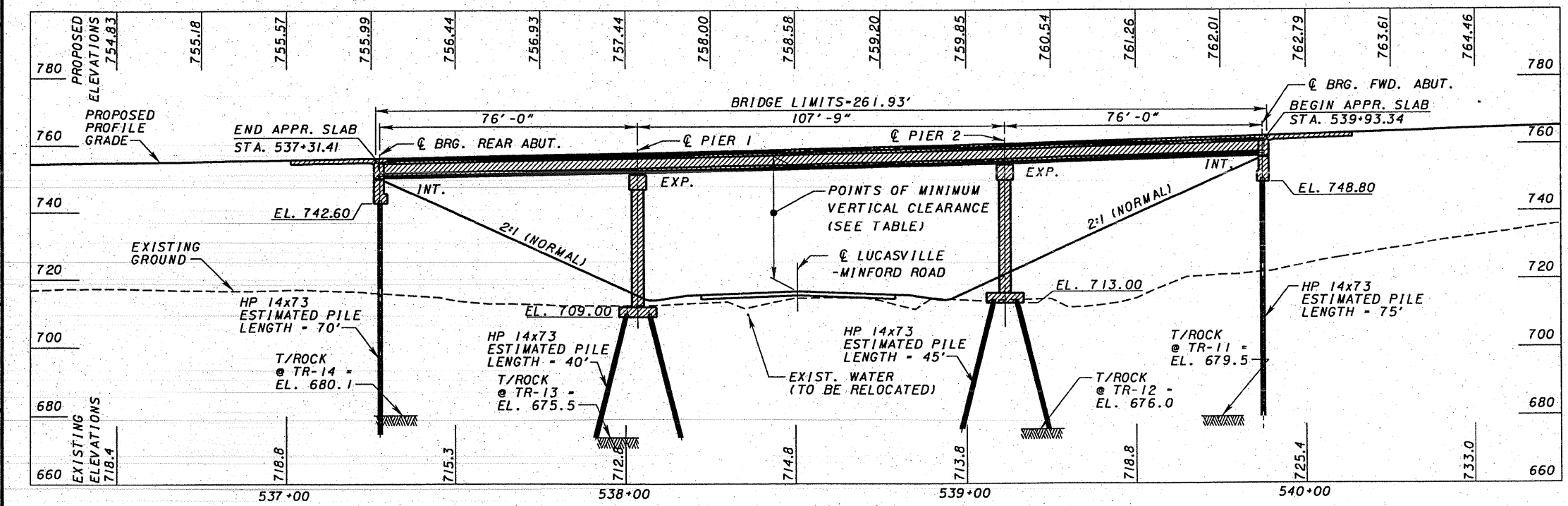
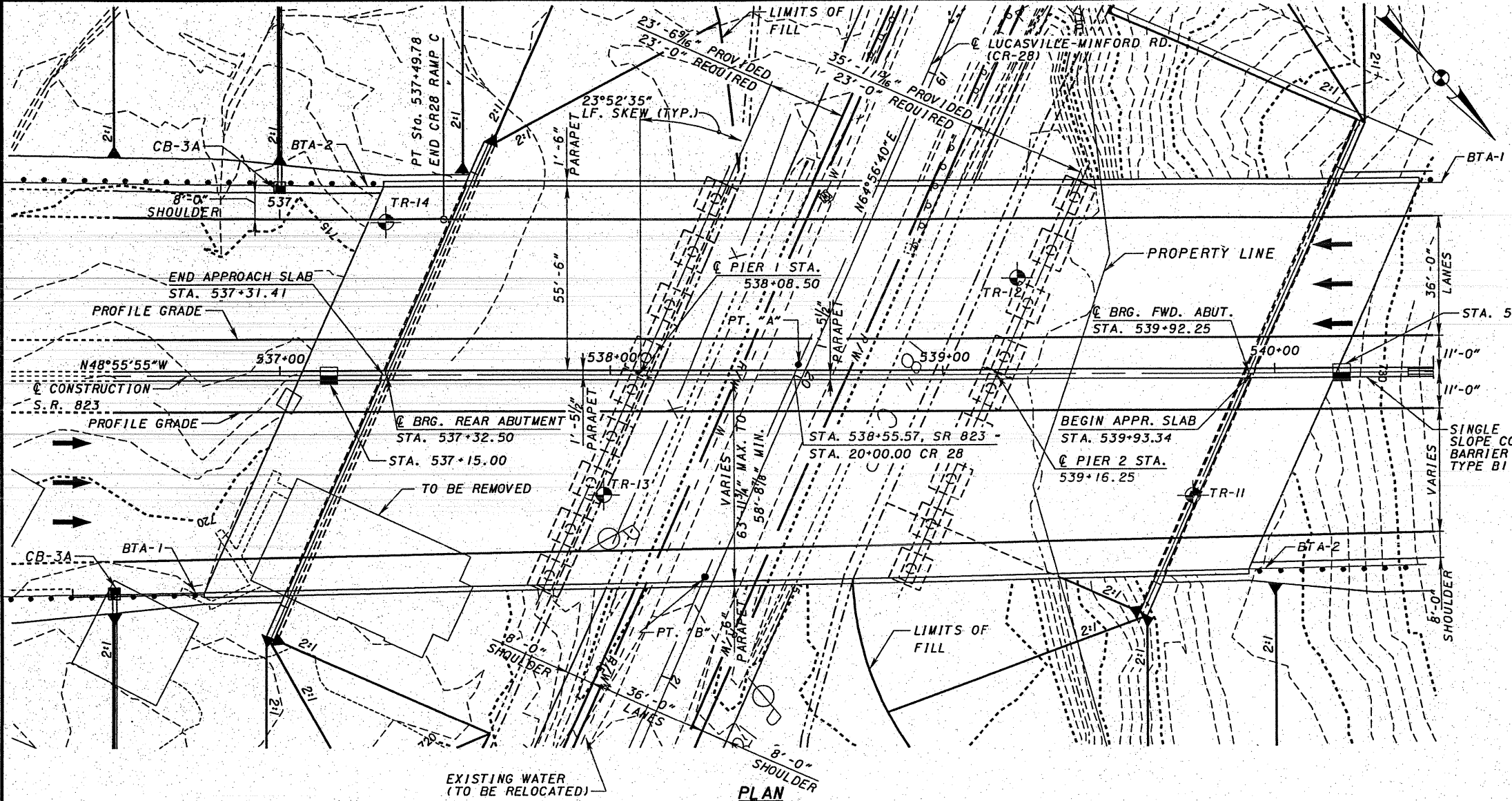
PROPOSED STRUCTURE	
TYPE:	THREE SPAN, 60" MODIFIED AASTHO TYPE 4 PRESTRESSED CONCRETE I-BEAM WITH COMPOSITE REINFORCED CONCRETE DECK SUPPORTED BY INTEGRAL ABUTMENTS AND CAP AND COLUMN PIERS
SPANS:	74'-9 1/2", 105'-4", 74' 9 1/2" (C/C BRG.)
ROADWAY:	55'-6" T/T OF BARRIER
LOADING:	HS-25, ALTERNATE MILITARY LOADING AND FWS - 60psf
SKEW:	23°52'35" LF
CROWN:	0.016 FT/FT
ALIGNMENT:	TANGENT
WEARING SURFACE:	MONOLITHIC CONCRETE
APPROACH SLABS:	AS-I-BI (25' LONG)
LATITUDE:	38°51'48" N
LONGITUDE:	82°53'45" W



ELEVATION ALONG PROFILE GRADE LINE S.R. 823 LEFT BRIDGE

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DESIGNED BY: P.J.P. CHECKED BY: MSL
 DRAWN BY: P.J.P. REVISIONS:
 DATE: 09/28/07
 STRUCTURE FILE NUMBER: 73066547
 SCIO TO COUNTY: STA. 537+31.41
 BRIDGE NO. SCI-823-1018 L STA. 539+93.34
 SR 823 OVER LUCASVILLE-MINFORD ROAD (CR-28) STA. 539+93.34
 SITE PLAN
 SCI-823-10.13
 PID 79977
 801
 864



ELEVATION ALONG PROFILE GRADE LINE S.R. 823 RIGHT BRIDGE

BENCHMARK 1	BENCHMARK 2
(TO BE PROVIDED LATER)	(TO BE PROVIDED LATER)

TRAFFIC DATA	
(SR 823)	
CURRENT YEAR ADT (2010)	= 19,800
CURRENT YEAR ADTT (2010)	= 4752
DESIGN YEAR ADT (2030)	= 26,000
DESIGN YEAR ADTT (2030)	= 6240

TABLE OF VERTICAL CLEARANCES		FIRST GUARDRAIL POST OFF BRIDGE LOCATIONS		
LOCATION	"A"	"B"	LOCATION	STATION
PROPOSED	36.07'	34.03'	NB REAR ABUT.	536+73.04
REQUIRED	15.00'	15.00'	SB REAR ABUT.	537+27.39
			NB FWD. ABUT.	539+96.17
			SB FWD. ABUT.	540+47.72

- NOTES:**
- ALL SHEETS WITH PLAN DIMENSIONS ARE SHOWN HORIZONTAL.
 - EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
 - THE PROPOSED PROFILE GRADE IS WITHIN BRIDGE LIMITS. SEE ROADWAY PLANS FOR PAVEMENT ELEVATIONS BEYOND BRIDGE LIMITS.

- LEGEND**
- BTA-1 - BRIDGE TERMINAL ASSEMBLY TYPE 1
 - BTA-2 - BRIDGE TERMINAL ASSEMBLY TYPE 2
 - ⊙ - BORING LOCATION
 - - SETTLEMENT PLATFORM

1300' VERT. CURVE DATA
 P.V.I. STA. = 535+00.00
 P.V.I. ELEV. 742.19
 G₁ = -2.90%
 G₂ = +4.00%

PROPOSED STRUCTURE

TYPE: THREE SPAN, 60" MODIFIED AASTHO TYPE 4 PRESTRESSED CONCRETE I-BEAM WITH COMPOSITE REINFORCED CONCRETE DECK SUPPORTED BY INTEGRAL ABUTMENTS AND CAP AND COLUMN PIERS

SPANS: 74'-9 1/2", 105'-4", 74' 9 1/2" (C/C BRG.)

ROADWAY: VARIES, 63'-11 3/4" TO 58'-8 7/8" T/T OF BARRIER

LOADING: HS-25, ALTERNATE MILITARY LOADING AND FWS = 60psf

SKEW: 23°52'35" LF

CROWN: 0.016 FT/FT

ALIGNMENT: TANGENT

WEARING SURFACE: MONOLITHIC CONCRETE

APPROACH SLABS: AS-1-81 (25' LONG)

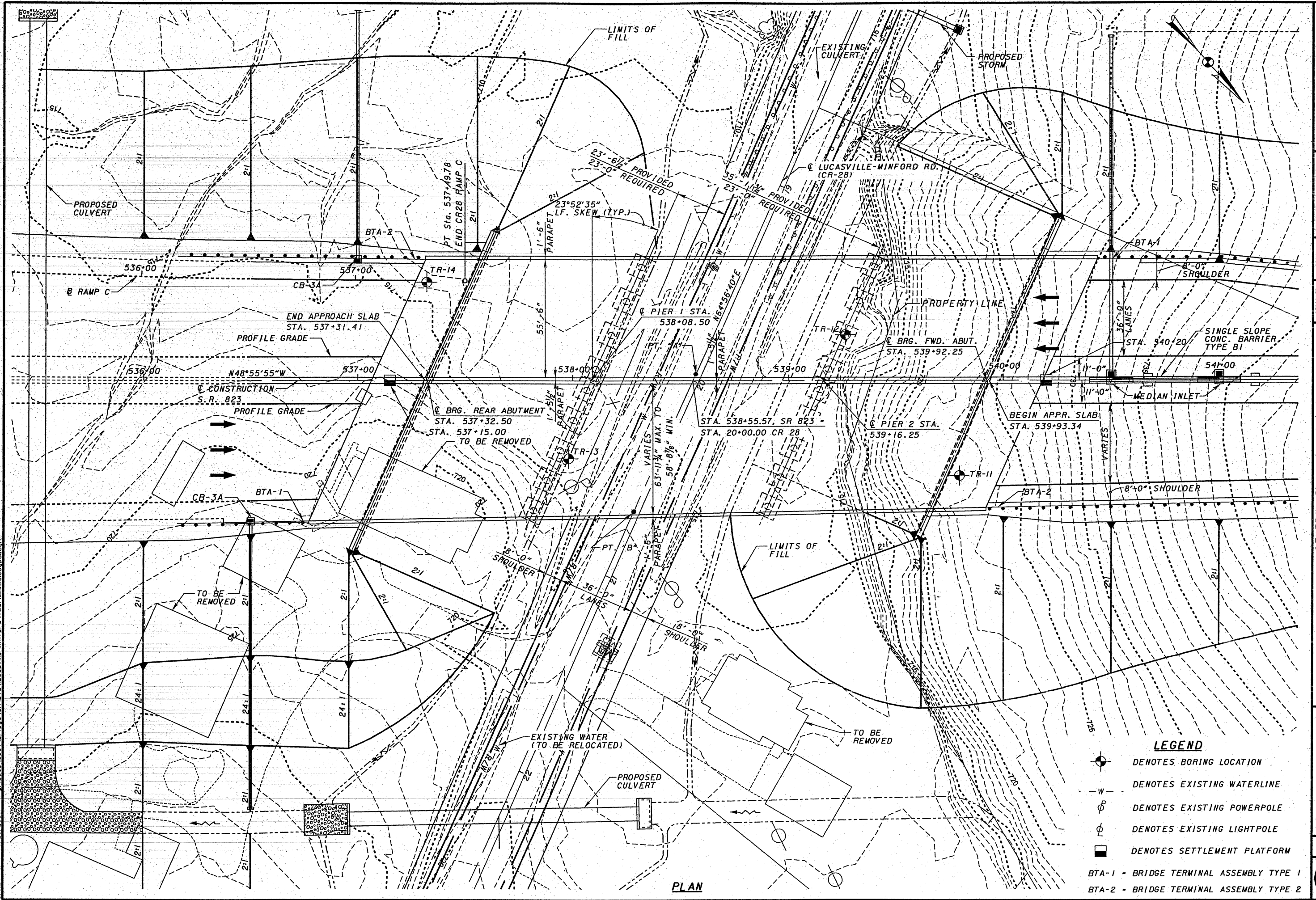
LATITUDE: 38°51'48" N

LONGITUDE: 82°53'45" W

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DESIGN AGENCY: **TRISystems**
 DATE: 09/28/07
 MSL: 7306555
 STRUCTURE FILE NUMBER: 7306555
 DRAWN: PJP
 CHECKED: MSJ
 DESIGNED: PJP
 COUNTY: SC1070
 STA: 537+31.41
 STA: 539+93.34
 BRIDGE NO. SC1-823-1018 R
 SR 823 OVER LUCASVILLE-MINFORD ROAD (CR-28)
 SITE PLAN
 SC1-823-10.13
 PID 79977
 2/6
 802
 864

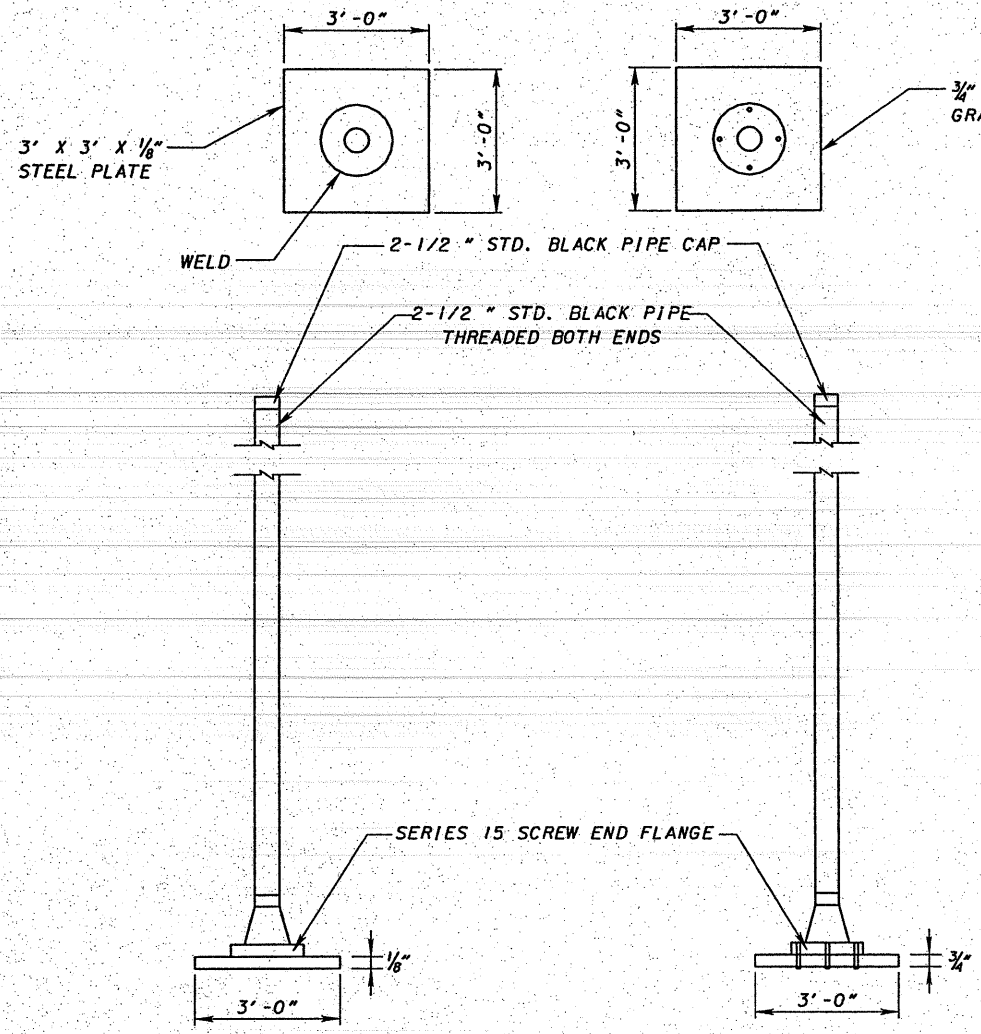
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PLAN

- LEGEND**
- ⊙ DENOTES BORING LOCATION
 - w- DENOTES EXISTING WATERLINE
 - ⊕ DENOTES EXISTING POWERPOLE
 - ⊕ DENOTES EXISTING LIGHTPOLE
 - DENOTES SETTLEMENT PLATFORM
- BTA-1 - BRIDGE TERMINAL ASSEMBLY TYPE 1
 BTA-2 - BRIDGE TERMINAL ASSEMBLY TYPE 2

DESIGN AGENCY: **Trap Systems**
 DATE: 09/28/07
 REVIEWED: MSL
 DRAWN: JDG
 DESIGNED: PJP
 CHECKED: JSC
 STRUCTURE FILE NUMBER: 7706271
 PROJECT NUMBER: 7706271
 PROJECT NAME: BRIDGE NO. SCI-823-1018 L&R
 BRIDGE NO. SCI-823-1018 L&R
 OVER RAMP A, RAMP B, RAMP C, RAMP D, RAMP E, RAMP F, RAMP G, RAMP H, RAMP I, RAMP J, RAMP K, RAMP L, RAMP M, RAMP N, RAMP O, RAMP P, RAMP Q, RAMP R, RAMP S, RAMP T, RAMP U, RAMP V, RAMP W, RAMP X, RAMP Y, RAMP Z
 GENERAL PLAN
 3/6
 803
 864



SETTLEMENT PLATFORM
NOT TO SCALE

NOTES:

1. SETTLEMENT PLATFORMS SHALL BE PLACED AT THE LOCATION INDICATED IN THE PLANS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. CONTRACTOR HAS OPTION OF USING EITHER STEEL OR PLYWOOD PLATFORM BASE.
3. CONTRACTOR SHALL FURNISH MATERIALS AND LABOR TO EXTEND PIPE UP THROUGH ENTIRE FILL.
4. SETTLEMENT PLATFORMS SHALL BE ANCHORED BY STAKES DRIVEN AT EACH CORNER TO PREVENT OVERTURNING.

ITEM SPECIAL-SETTLEMENT PLATFORMS

DESCRIPTION: THIS ITEM CONSISTS OF FURNISHING, CONSTRUCTING, AND MAINTAINING SETTLEMENT PLATFORMS AND OBTAINING SETTLEMENT READINGS AS REQUIRED BY THE PLANS OR AS DIRECTED BY THE ENGINEER. AT THE OPTION AND EXPENSE OF THE CONTRACTOR, ADDITIONAL SETTLEMENT PLATFORMS MAY BE INSTALLED AT LOCATIONS APPROVED BY THE ENGINEER. SETTLEMENT READINGS SHALL BE TAKEN WEEKLY DURING CONSTRUCTION AND DURING ANY SPECIFIED WAITING PERIOD. THE READINGS SHALL BE PLOTTED ON GRAPH PAPER PRESENTING DEFORMATION (ON THE NEGATIVE Y-AXIS) AND FILL HEIGHT (ON THE POSITIVE Y-AXIS) VERSUS TIME (ON THE X-AXIS). A COPY OF EACH CUMULATIVE PLOT SHALL BE SENT TO THE OFFICE OF GEOTECHNICAL ENGINEERING, ATTENTION: GEOTECHNICAL DESIGN COORDINATOR, AFTER EACH SETTLEMENT READING IS RECORDED.

SUPERSTRUCTURE DEPTH	
ITEM	60" MODIFIED AASHTO TYPE 4 BEAM
SLAB (INCLUDING WEARING SURFACE)	8 1/2"
HAUNCH (BOTTOM OF SLAB TO TOP OF FLANGE)	2"
GIRDER DEPTH	60"
TOP OF WEARING SURFACE TO BOTTOM OF GIRDER FLANGE (INCH)	70.50"
TOP OF WEARING SURFACE TO BOTTOM OF GIRDER FLANGE (FEET)	5.875'

MATERIALS: SOUND LUMBER SUCH AS 3/4" EXTERIOR GRADE PLYWOOD SHALL BE USED FOR THE BASE. THE PIPE SHALL BE 2 1/2" STANDARD BLACK PIPE WITH WREADED FITTINGS AS SHOWN ON THE PLANS. A STEEL PLATE 36" X 36" X 1/8" MAY BE SUBSTITUTED FOR THE LUMBER FOR THE PLATFORMS, AT THE CONTRACTOR'S OPTION.

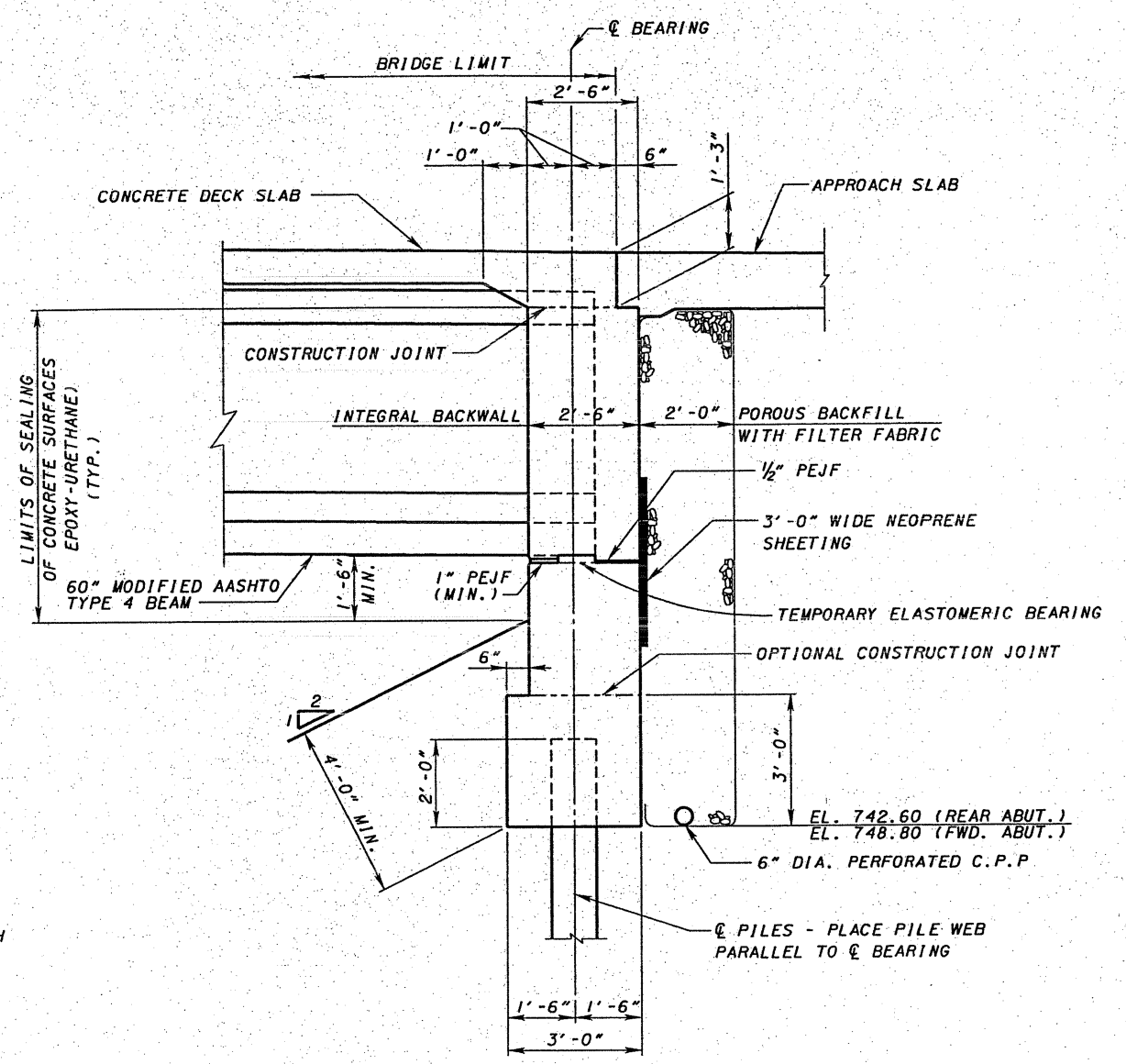
CONSTRUCTION METHODS: THE PLATFORM SHALL CONFORM TO THE DETAILS SHOW ON THE PLANS.

THE PLATFORM SHALL BE SET ON A LEVEL SURFACE. THE PIPE SHALL BE FIRMLY SECURED TO THE PLATFORM AND SHALL BE MAINTAINED IN A PLUMB POSITION DURING THE PLACEMENT OF THE EMBANKMENT. THE PIPE SHALL BE MARKED AT INTERVALS TO FACILITATE MEASUREMENT OF THE DEPTH OF FILL. THE CONTRACTOR SHALL STOP WORK IN ANY LOCATION WHERE THE SETTLEMENT PLATFORM HAS BEEN DISTURBED OR DAMAGED. PLATFORMS OR PIPES DAMAGED OR DISPLACED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR PROPER CONDITION AT THE CONTRACTOR'S EXPENSE.

PRIOR TO PAVING, THE TOP OF THE SETTLEMENT PLATFORM PIPE SHALL BE CUT OFF 2 FEET BELOW THE FINISHED SURFACE OF THE SUBGRADE OR FINISHED GROUND SURFACE, WHICHEVER IS APPLICABLE.

METHOD OF MEASUREMENT: THE NUMBER OF SETTLEMENT PLATFORMS TO BE PAID FOR SHALL BE THE ACTUAL NUMBER OF SETTLEMENT PLATFORMS COMPLETED, MAINTAINED, AND ACCEPTED BY THE ENGINEER.

BASIS OF PAYMENT: PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE EACH FOR "ITEM SPECIAL--SETTLEMENT PLATFORMS" WHICH IS COMPENSATION FOR CONSTRUCTING, MAINTAINING, AND MONITORING THE SETTLEMENT PLATFORMS INCLUDING FURNISHING ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. PAYMENT SHALL NOT BE MADE FOR SETTLEMENT PLATFORMS WHICH BECOME USELESS DUE TO DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS.



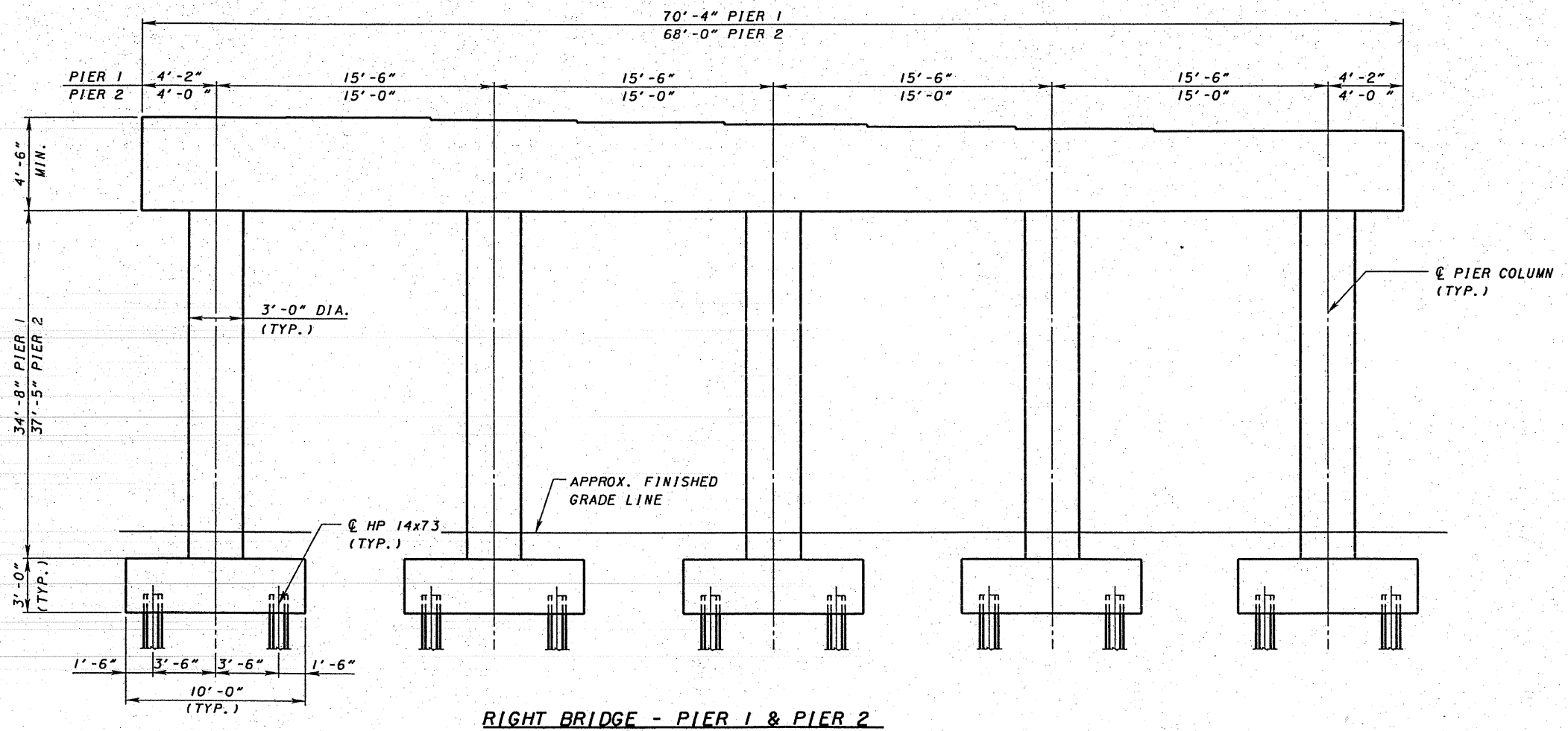
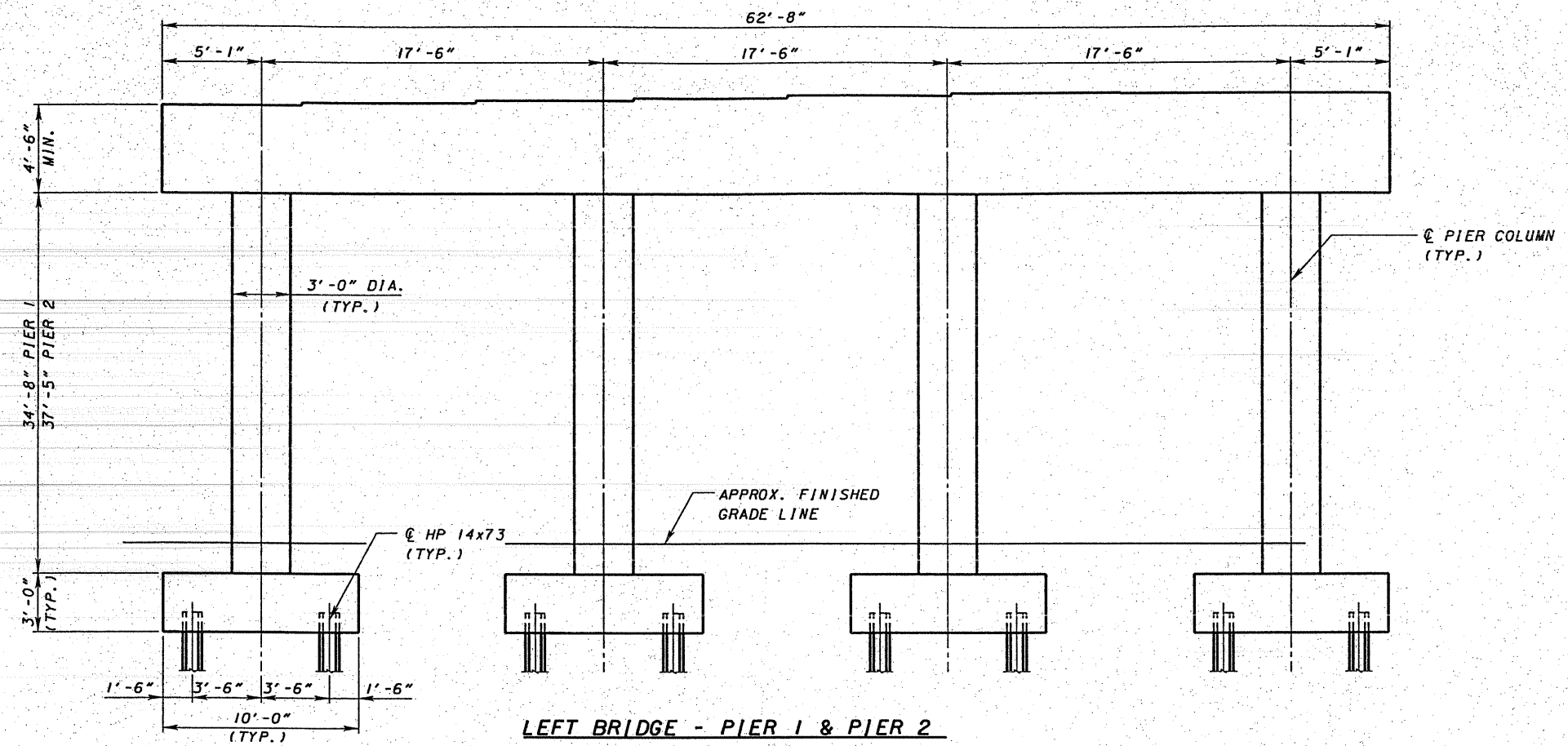
ABUTMENT SECTION

NOTES:

1. **CONSTRUCTION CONSTRAINTS:** PRIOR TO CONSTRUCTING THE PILE FOUNDATIONS, CONSTRUCT THE BRIDGE APPROACH EMBANKMENTS BEHIND THE ABUTMENT UP AT A 1:1 SLOPE FROM THE BOTTOM OF THE HEEL OF THE FOOTING TO SUBGRADE ELEVATION AND FOR A MINIMUM DISTANCE OF 250 FEET BEHIND THE ABUTMENTS. AFTER THE ABUTMENT FOOTING AND BREASTWALL ARE COMPLETED AND PRIOR TO SETTING SUPERSTRUCTURE MEMBERS, CONSTRUCT THE EMBANKMENT IMMEDIATELY BEHIND THE ABUTMENT UP TO THE BEAM SEAT ELEVATION AND ON A 1:1 SLOPE UP TO THE SUBGRADE ELEVATION, WITH TYPE B GRANULAR MATERIAL CONFORMING TO 703.16.C. PILE FOUNDATION CONSTRUCTION SHALL NOT BEGIN UNTIL SETTLEMENT PLATFORMS HAVE INDICATED 98% OF THE TOTAL CALCULATED SETTLEMENT HAS OCCURED. THE CALCULATED TIME FOR THIS SETTLEMENT IS 280 DAYS USING WICK DRAINS AS SPECIFIED IN THE WICK DRAIN AND INSTRUMENTATION PLANS SHEET XX OF XX. ACTUAL WAITING PERIODS MAY BE MODIFIED BY THE ENGINEER BASED UPON THE SETTLEMENT READINGS
2. **ITEM 203 EMBANKMENT,** AS PER PLAN: PLACE AND COMPACT EMBANKMENT MATERIAL IN 6 INCH (150 MM) LIFTS FOR THE CONSTRUCTION OF THE APPROACH EMBANKMENT BETWEEN STATIONS ** TO **.
3. **ITEM 507 PREBORED HOLES** SHALL BE CONSTRUCTED THROUGH THE NEW EMBANKMENT.

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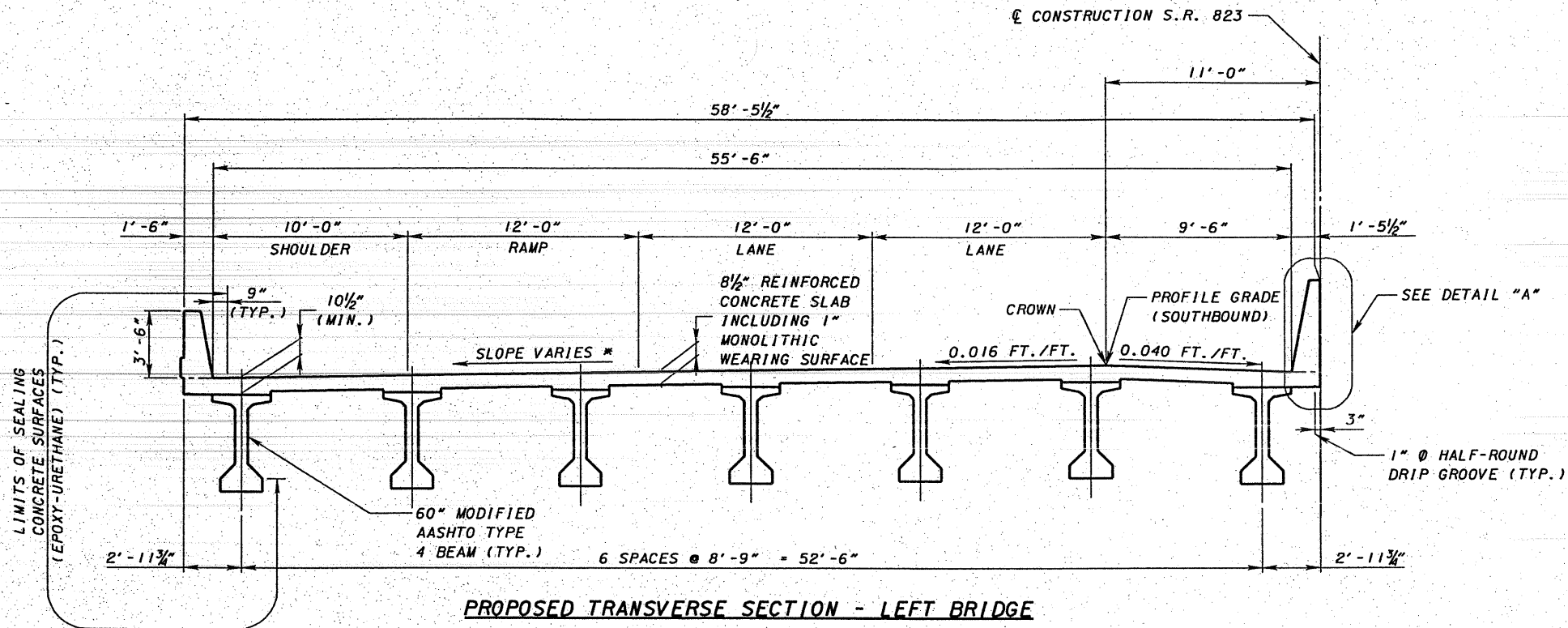
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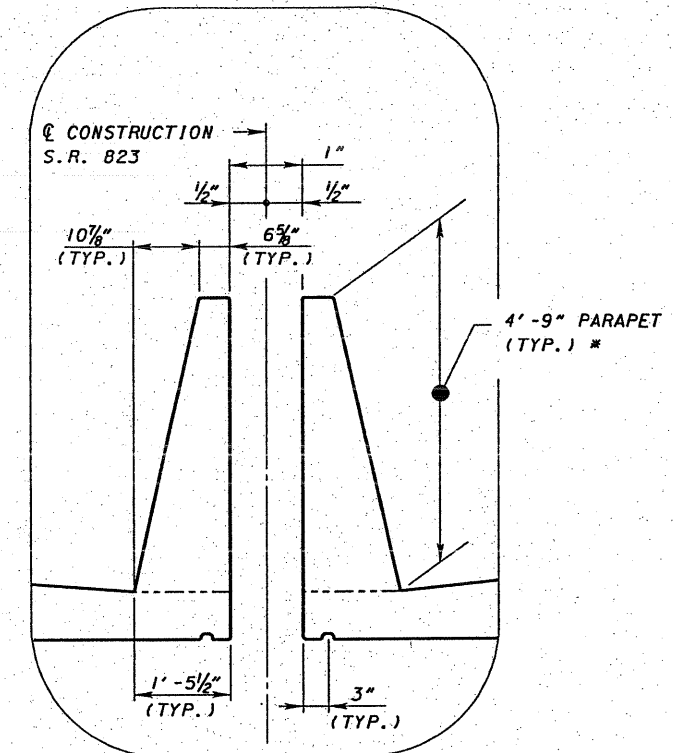
DESIGNED	PJP	CHECKED	MSL
DRAWN	PJP	REVISED	
REVIEWED	MSL	STRUCTURE FILE NUMBER	73065471, 7306555R
DATE	09/28/07		

PIER DETAILS
BRIDGE NO. SCI-823-1018 L&R
SR823 OVER LUCASVILLE MINFORD ROAD (CR 503)

SCI-823-10.13
PID 79977

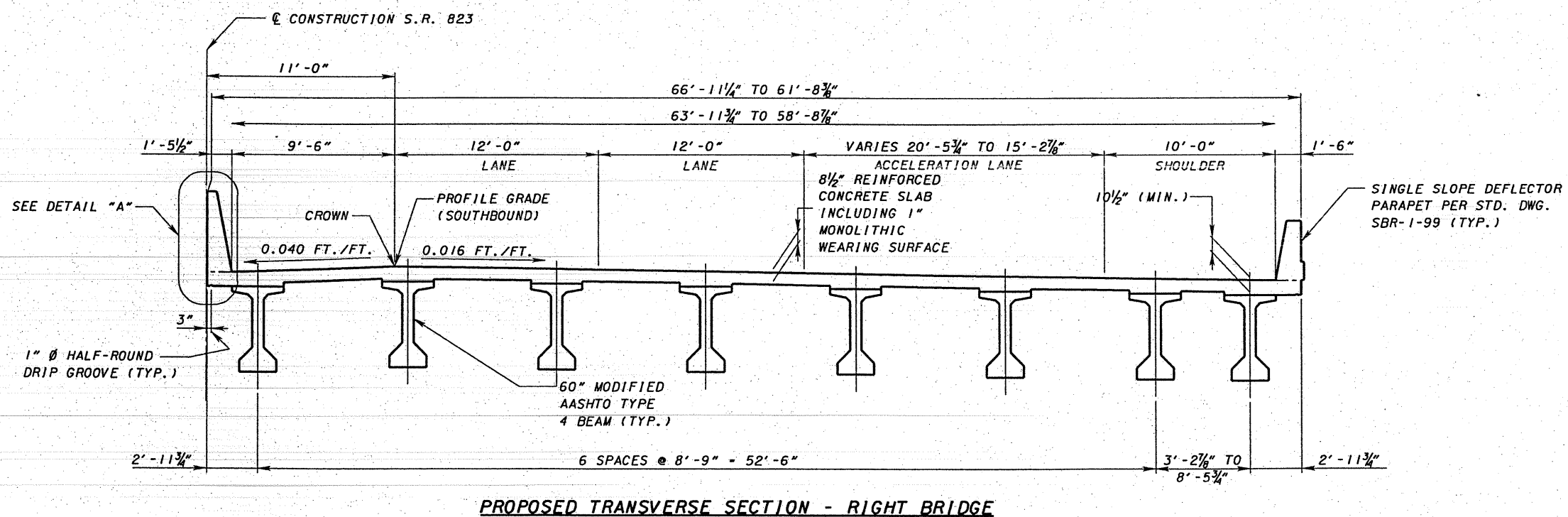


* RAMP CROSS SLOPE TRANSITION
 STA. 537+39.79 (RAMP C) = 0.027 FT./FT.
 TO STA. 537+69.79 (SR 823) = 0.016 FT./FT.



DETAIL "A"
 (NOT SHOWN TO SCALE)

* PARAPETS ARE SIMILAR TO
 ROADWAY MEDIAN BARRIER



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DATE	09/28/07
REVISION	STRUCTURE FILE NUMBER
DRAWN	73065471, 7306555R
PJP	REVISED
CHECKED	MSL

TRANSVERSE SECTION
 BRIDGE NO. SCI-823-1018 L&R
 SR823 OVER LUCASVILLE WINFORD ROAD (CR 503)

SCI-823-10.13
 PID 79977

FIRST GUARDRAIL POST OFF BRIDGE LOCATIONS	
LOCATION	STATION
REAR ABUT. (NB)	578+29.33
REAR ABUT. (SB)	577+98.69
FWD. ABUT. (NB)	579+97.08
FWD. ABUT. (SB)	579+66.44

BENCHMARK 1	BENCHMARK 2
(TO BE PROVIDED LATER)	(TO BE PROVIDED LATER)

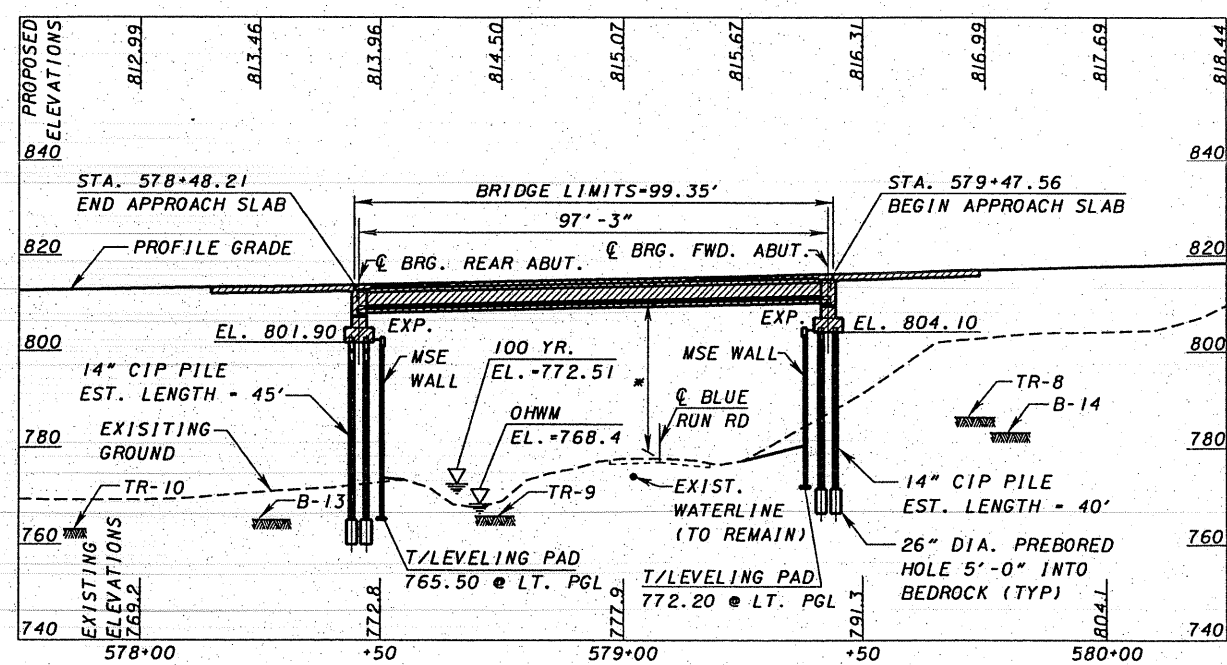
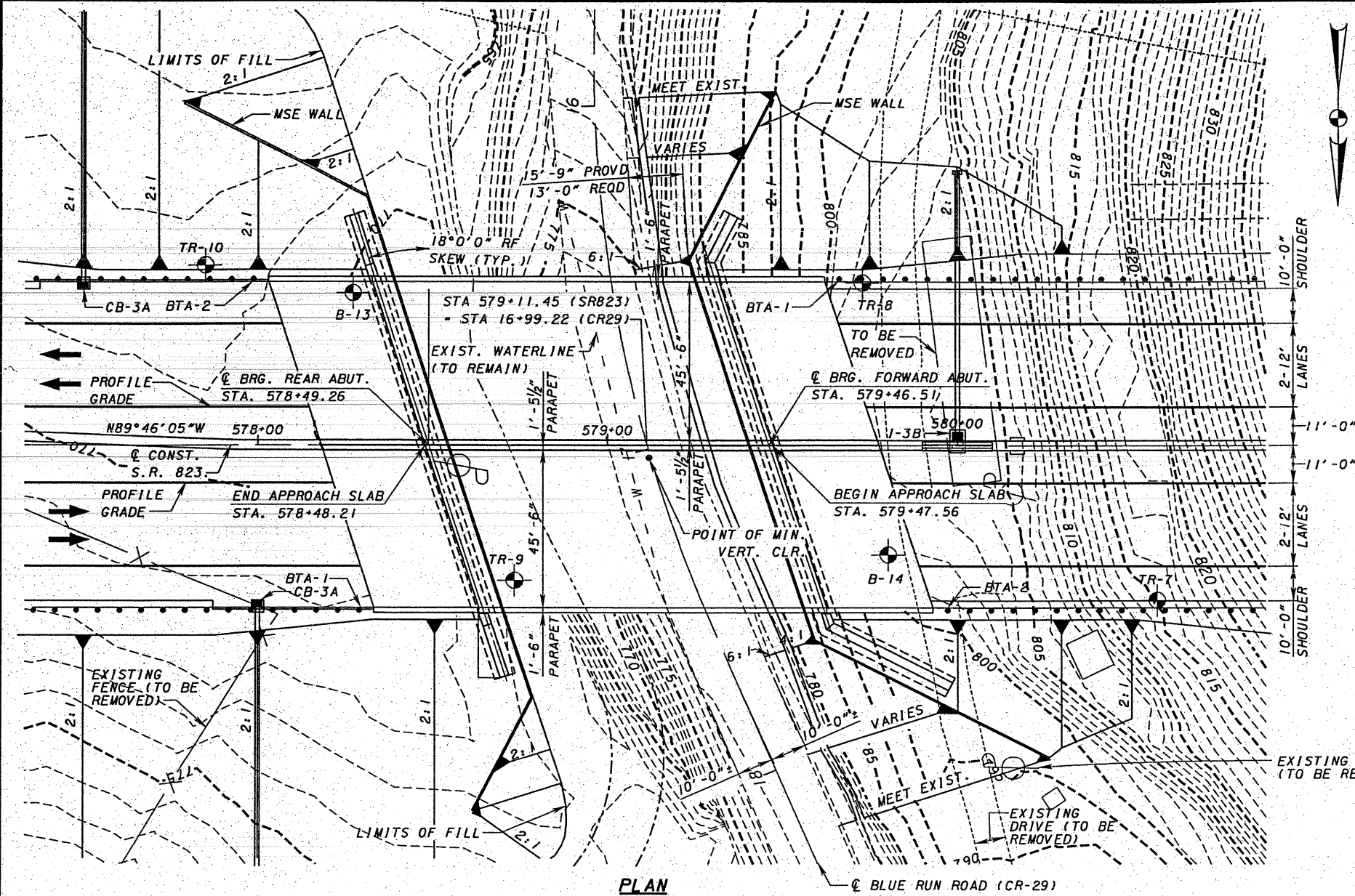
TRAFFIC DATA	
(SR 823)	
CURRENT YEAR ADT (2010)	- 19,800
DESIGN YEAR ADT (2030)	- 26,000
CURRENT YEAR ADTT (2010)	- 2,772
DESIGN YEAR ADTT (2030)	- 3,640

HYDRAULIC DATA	
DRAINAGE AREA - 89.2 ACRES	
Q ₅₀ - 132.4 cfs	Q ₁₀₀ - 157.0 cfs
V ₅₀ - 5.7 fps	V ₁₀₀ - 6.0 fps
EL ₅₀ - 772.26	EL ₁₀₀ - 772.51

- NOTES:**
- ALL SHEETS WITH PLAN DIMENSIONS ARE SHOWN HORIZONTAL.
 - EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
 - THE PROPOSED PROFILE GRADE IS WITHIN BRIDGE LIMITS. SEE ROADWAY PLANS FOR PAVEMENT ELEVATIONS BEYOND BRIDGE LIMITS.

- LEGEND**
- BTA-1 - BRIDGE TERMINAL ASSEMBLY TYPE 1
 - BTA-2 - BRIDGE TERMINAL ASSEMBLY TYPE 2
 - ⊙ - BORING LOCATION

PROPOSED STRUCTURE	
TYPE: SINGLE SPAN 60" MODIFIED AASHTO TYPE 4 PRESTRESSED CONCRETE I-BEAMS WITH COMPOSITE REINFORCED CONCRETE DECK ON SEMI-INTEGRAL ABUTMENTS AND MSE WALL SUPPORTED EMBANKMENTS.	
SPAN: 97'-3" c/c BEARINGS	
ROADWAY: 2 - 45'-6" TOE TO TOE OF PARAPETS	
LOADING: HS-25 AND ALTERNATE MILITARY LOADING; FWS - 60 PSF	
SKEW: 18°00'00" RF	
CROWN: 0.016 FT/FT	
ALIGNMENT: TANGENT	
WEARING SURFACE: MONOLITHIC CONCRETE	
APPROACH SLABS: AS-1-81 (30'-0" LONG)	
LATITUDE: 82° 54' 01" N	
LONGITUDE: 38° 51' 39" W	



1200' VERT. CURVE DATA

PVI STA. 576+00.00
 PVI EL. -800.59
 G₁ = -2.60%
 G₂ = 4.00%

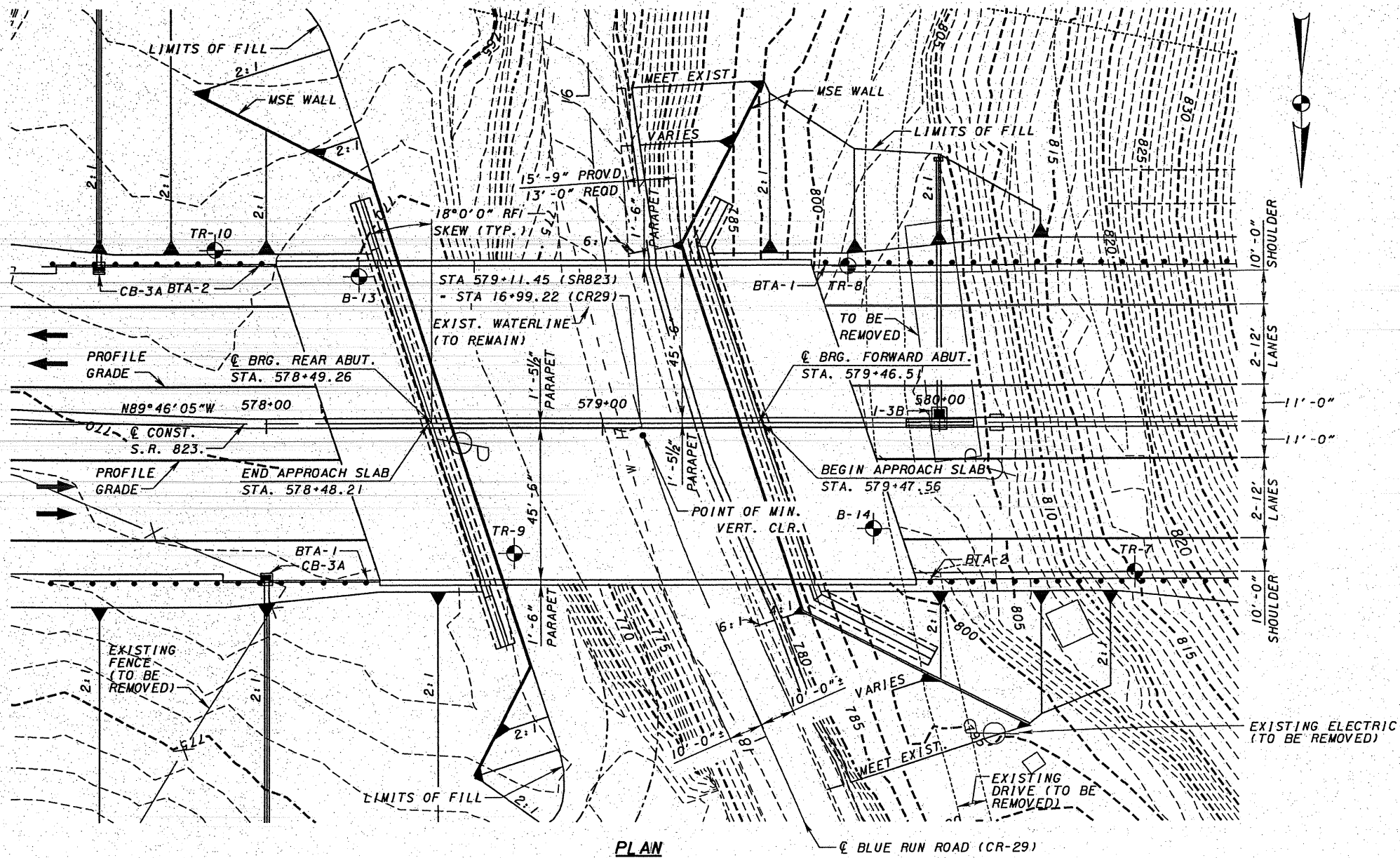
BORING INFORMATION	
No.	T/ROCK ELEV.
TR-7	807.8
TR-8	788.9
TR-9	765.8
TR-10	763.1
B-13	766.5
B-14	783.2

* MIN. VERT. CLR.
 30.28' ACTUAL
 15.00' PREFERRED

PROFILE ALONG PROFILE GRADE S.R. 823 LEFT BRIDGE

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DESIGN AGENCY: **TECHNICAL SYSTEMS**
 DATE: 6/9/07
 REFERRED: MSL
 STRUCTURE FILE NUMBER: 7771122
 DRAWN: MTN
 REVISED: MSL
 CHECKED: MSL
 DTD: MSL
 SC1070 COUNTY: STA. 578+48.21
 STA. 579+47.56
 STA. 579+66.44
 SITE PLAN
 BRIDGE NO. SCI-823-1096L
 S. R. 823 OVER BLUE RUN ROAD (CR-29)
 SCI-823-10-13
 PID 79977
 807
 864



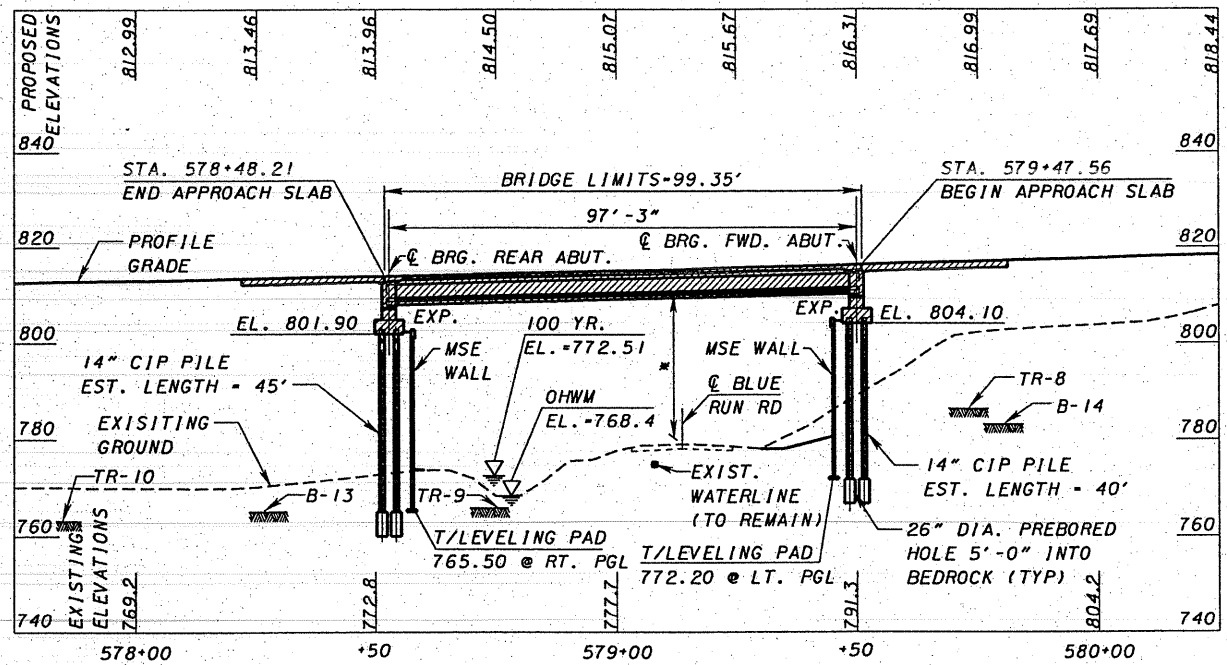
FIRST GUARDRAIL POST OFF BRIDGE LOCATIONS	
LOCATION	STATION
REAR ABUT. (NB)	578+29.33
REAR ABUT. (SB)	577+98.69
FWD. ABUT. (NB)	579+97.08
FWD. ABUT. (SB)	579+66.44

BENCHMARK 1	BENCHMARK 2
(TO BE PROVIDED LATER)	(TO BE PROVIDED LATER)

TRAFFIC DATA	
(SR 823)	
CURRENT YEAR ADT (2010)	- 19,800
CURRENT YEAR ADTT (2010)	- 2,772
DESIGN YEAR ADT (2030)	- 26,000
DESIGN YEAR ADTT (2030)	- 3,640

HYDRAULIC DATA	
DRAINAGE AREA - 89.2 ACRES	
Q ₅₀ - 132.4 cfs	Q ₁₀₀ - 157.0 cfs
V ₅₀ - 5.7 fps	V ₁₀₀ - 6.0 fps
EL 50 - 772.26	EL 100 - 772.51

- NOTES:**
- ALL SHEETS WITH PLAN DIMENSIONS ARE SHOWN HORIZONTAL.
 - EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
 - THE PROPOSED PROFILE GRADE IS WITHIN BRIDGE LIMITS. SEE ROADWAY PLANS FOR PAVEMENT ELEVATIONS BEYOND BRIDGE LIMITS.



1200' VERT. CURVE DATA

PV1 STA. 576+00.00
 PV1 EL. -800.59
 G₁ = -2.60%
 G₂ = 4.00%

* MIN. VERT. CLR. 30.28' ACTUAL 15.0' REQUIRED

BORING INFORMATION	
No.	T/ROCK ELEV.
TR-7	807.8
TR-8	788.9
TR-9	765.8
TR-10	763.1
B-13	766.5
B-14	783.2

LEGEND

BTA-1 - BRIDGE TERMINAL ASSEMBLY TYPE 1
 BTA-2 - BRIDGE TERMINAL ASSEMBLY TYPE 2
 B - BORING LOCATION

PROPOSED STRUCTURE

TYPE: SINGLE SPAN 60" MODIFIED AASHTO TYPE 4 PRESTRESSED CONCRETE I-BEAMS WITH COMPOSITE REINFORCED CONCRETE DECK ON SEMI-INTEGRAL ABUTMENTS AND MSE WALL SUPPORTED EMBANKMENTS.

SPAN: 97'-3" c/c BEARINGS

ROADWAY: 2 - 45'-6" TOE TO TOE OF PARAPETS

LOADING: HS-25 AND ALTERNATE MILITARY LOADING; FWS - 60 PSF

SKEW: 18°00'00" RF

CROWN: 0.016 FT/FT

ALIGNMENT: TANGENT

WEARING SURFACE: MONOLITHIC CONCRETE

APPROACH SLABS: AS-1-81 (30'-0" LONG)

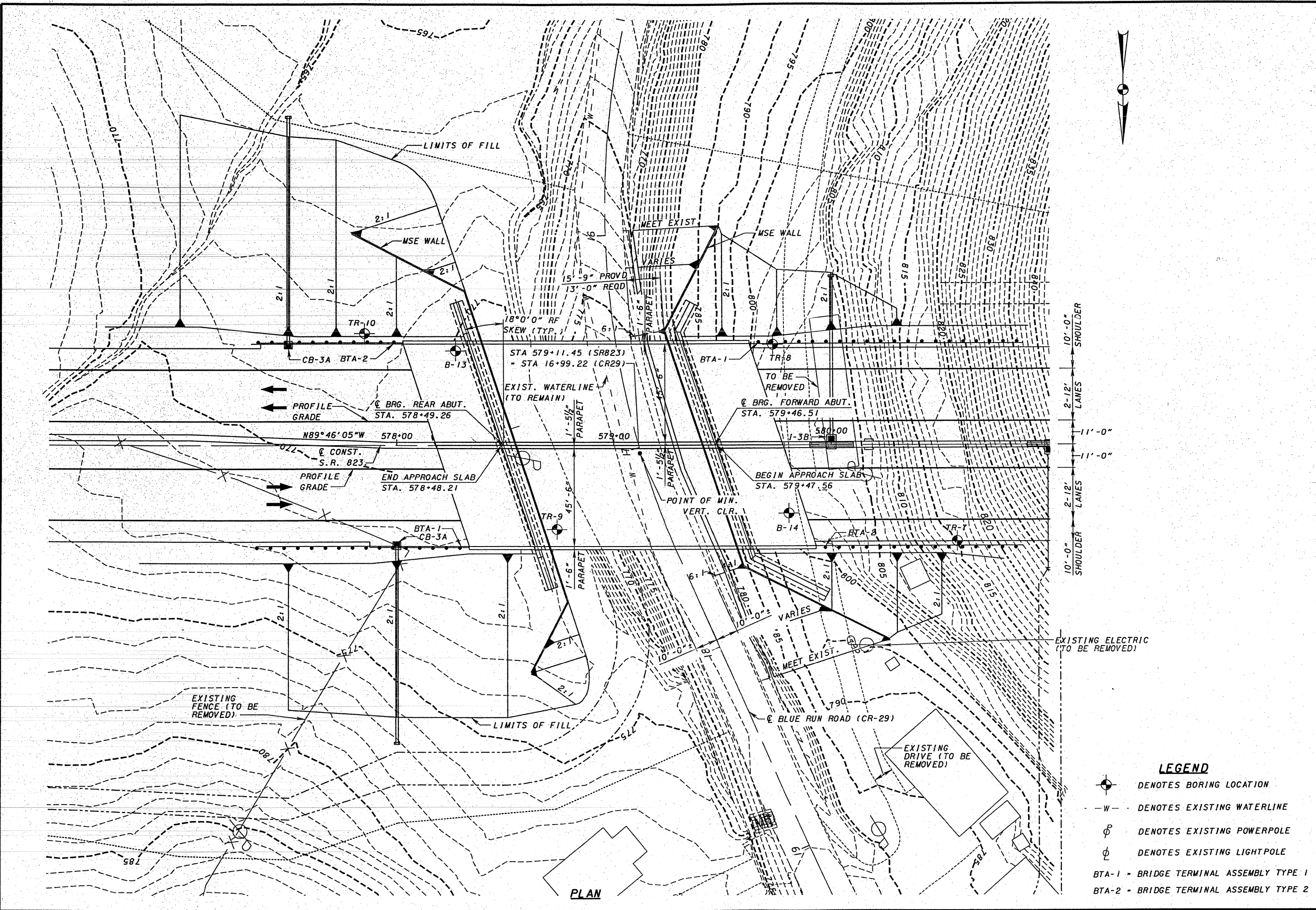
LATITUDE: 82° 54' 01" N

LONGITUDE: 38° 51' 39" W

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DESIGN AGENCY: **Systems**
 DATE: 6/9/07
 REFERRED: MSL
 STRUCTURE FILE NUMBER: 730657
 DRAWN: MTN
 CHECKED: PJP
 DESIGNED: MSL
 COUNTY: SCIOTO COUNTY
 STA. 578+48.21
 STA. 579+47.56
 BRIDGE NO. SCI-823-1096R
 S.R. 823 OVER BLUE RUN ROAD (CR-29)
 SITE PLAN
 SCI-823-10.13
 PID 79977
 2/8
 808
 864

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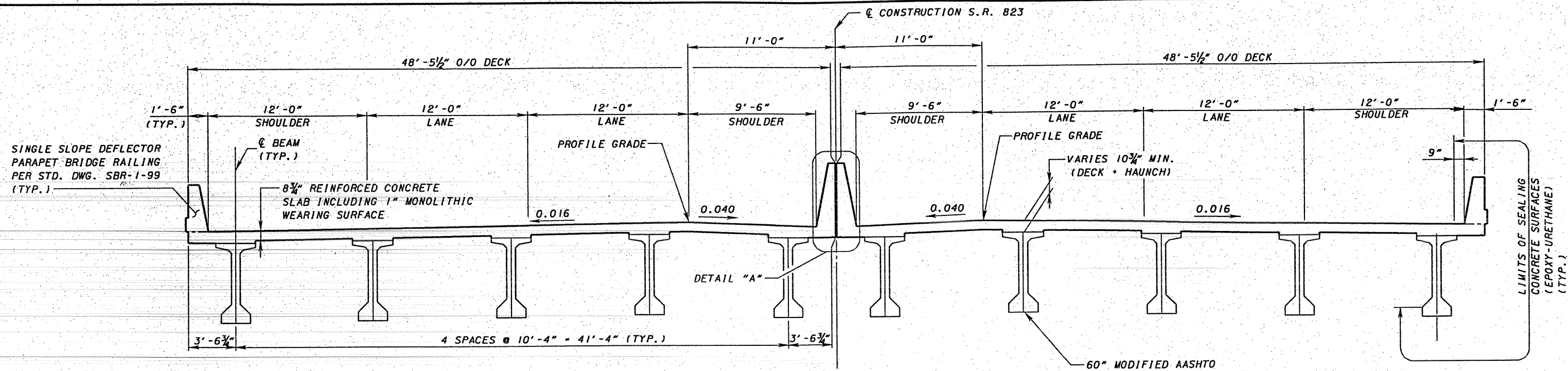


10'-0" SHOULDER
 2'-12" LANES
 11'-0"
 11'-0"
 2'-12" LANES
 10'-0" SHOULDER

- LEGEND**
- ⊙ DENOTES BORING LOCATION
 - W- DENOTES EXISTING WATERLINE
 - ⊕ DENOTES EXISTING POWERPOLE
 - ⊙ DENOTES EXISTING LIGHTPOLE
 - BTA-1 - BRIDGE TERMINAL ASSEMBLY TYPE 1
 - BTA-2 - BRIDGE TERMINAL ASSEMBLY TYPE 2

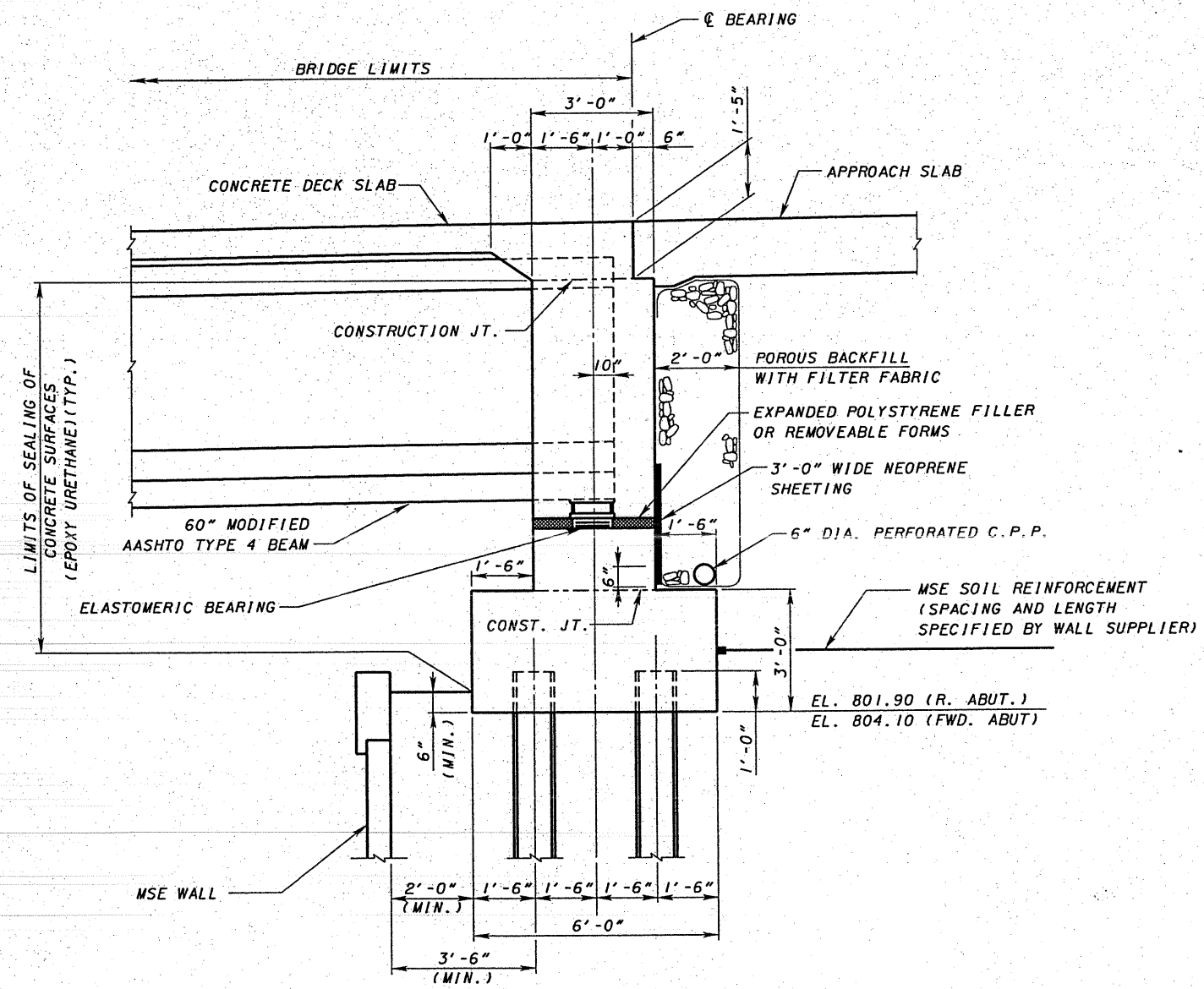
PLAN

DESIGN AGENCY: **Systems**
 DATE: 6/9/07
 REVIEWED: MSL
 STRUCTURE FILE NUMBER: 7306563
 DRAWN: MTN
 CHECKED: PJP
 DESIGNED: MSL
 SCIO TO COUNTY: STA. 578+48.21
 STA. 579+47.56
 GENERAL PLAN: BRIDGE NO. SCI-823-1096L
 S.R. 823 OVER BLUE RUN ROAD (CR-29)
 SCI-823-10.13
 PID 79977
 3/8
 809
 864

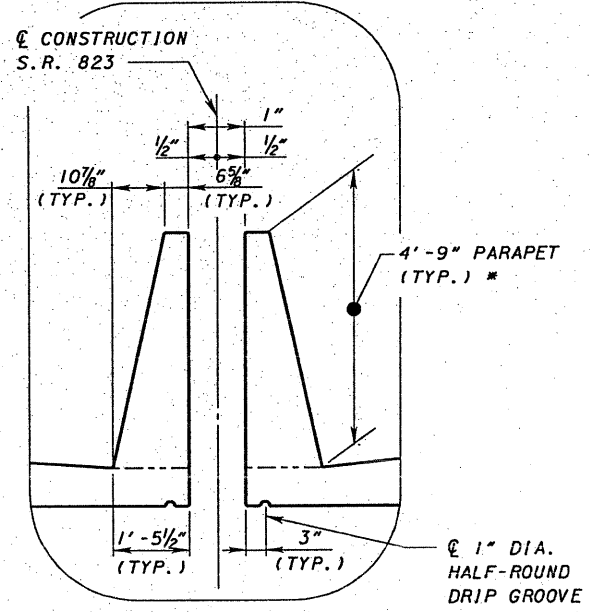


PROPOSED TRANSVERSE SECTION

SUPERSTRUCTURE DEPTH	
ITEM	60" MODIFIED AASHTO TYPE 4 BEAM
SLAB (INCLUDING WEARING SURFACE)	8 3/4"
HAUNCH (BOTTOM OF SLAB TO TOP OF GIRDER)	2"
GIRDER DEPTH	60"
TOP OF WEARING SURFACE TO BOTTOM OF GIRDER FLANGE (INCH)	70.75"
TOP OF WEARING SURFACE TO BOTTOM OF GIRDER FLANGE (FEET)	5.896'



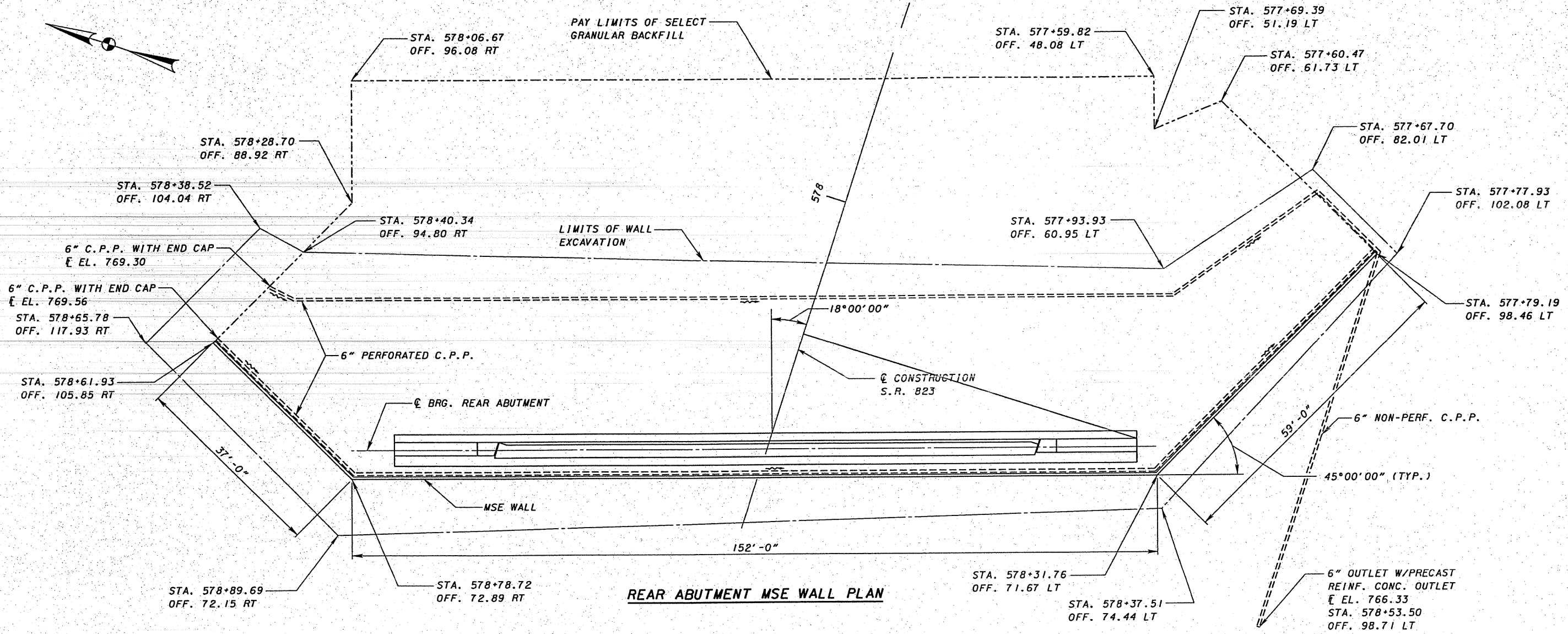
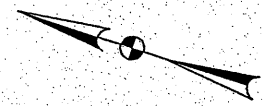
TYPICAL ABUTMENT SECTION



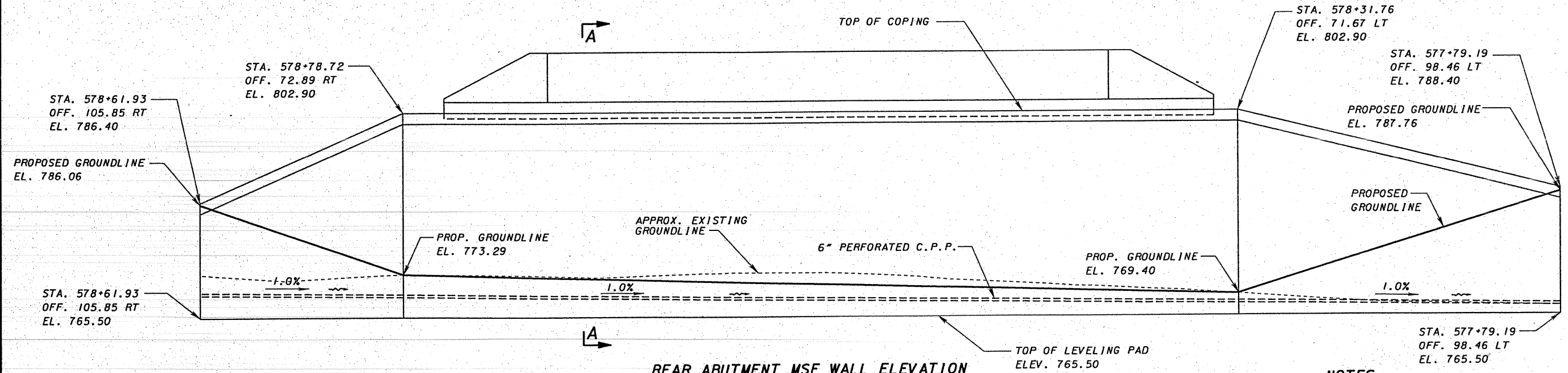
DETAIL "A"

(NOT SHOWN TO SCALE)
 * PARAPETS ARE SIMILAR TO ROADWAY CONCRETE MEDIAN BARRIER

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REAR ABUTMENT MSE WALL PLAN



REAR ABUTMENT MSE WALL ELEVATION

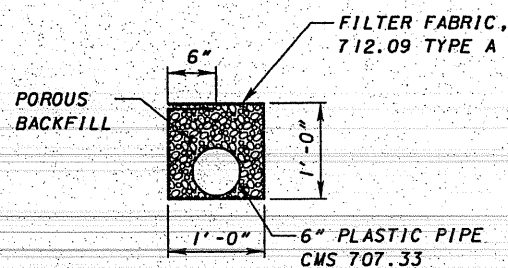
- NOTES:**
1. WALL LOCATIONS GIVEN TO FRONT FACE OF MSE WALL PANELS
 2. WALL ELEVATIONS GIVEN TO TOP OF LEVELING PAD AND TOP OF WALL
 3. SEE SHEET 577 FOR SECTION A-A

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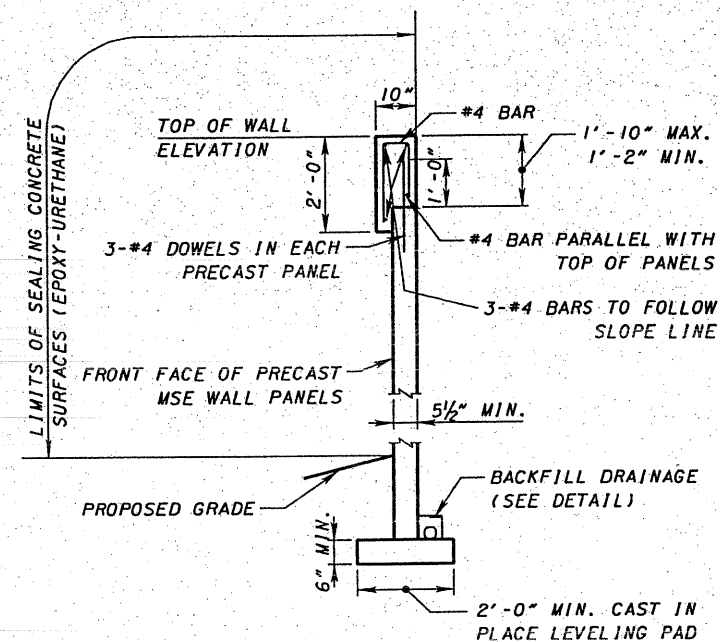
DESIGNED	DRAWN	REVIEWED	DATE
PJP	MTN	MSL	6/19/07
CHECKED	REVISED	STRUCTURE FILE NUMBER	
		7306563L, 7306571R	

REAR ABUT. MSE WALL PLAN & ELEVATION
 BRIDGE NO. SCI-823-1096 L&R
 S. R. 823 OVER BLUE RUN ROAD (CR-29)

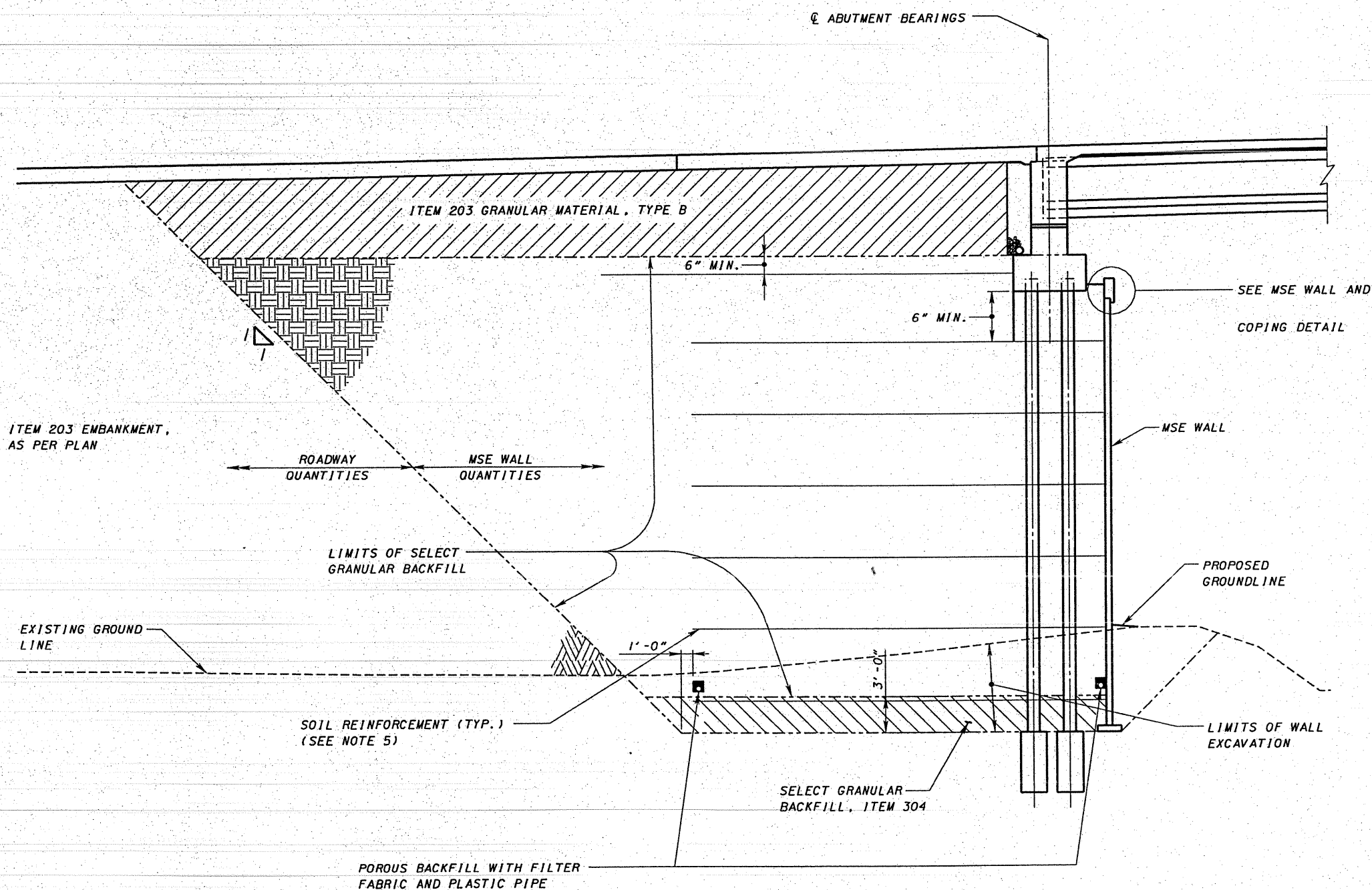
SCI-823-10.13
 PID 79977



BACKFILL DRAINAGE DETAIL



MSE WALL AND COPING DETAIL



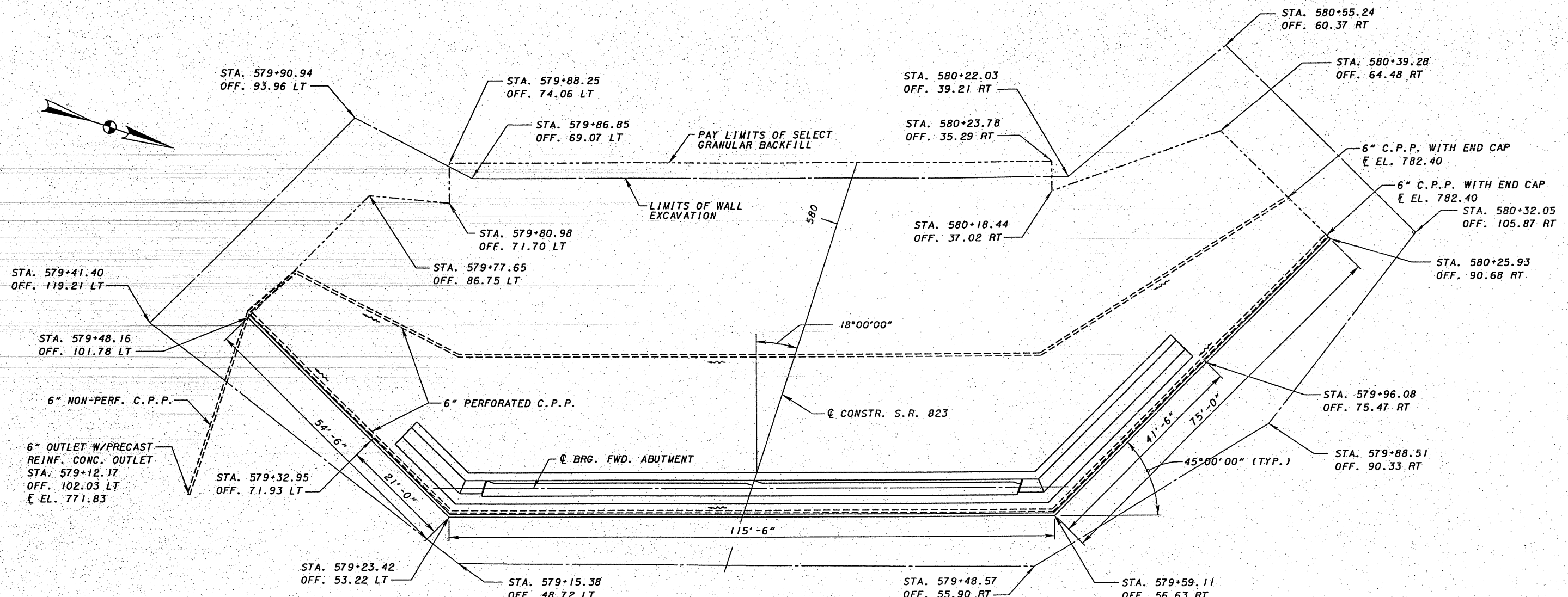
SECTION A-A

NOTES:

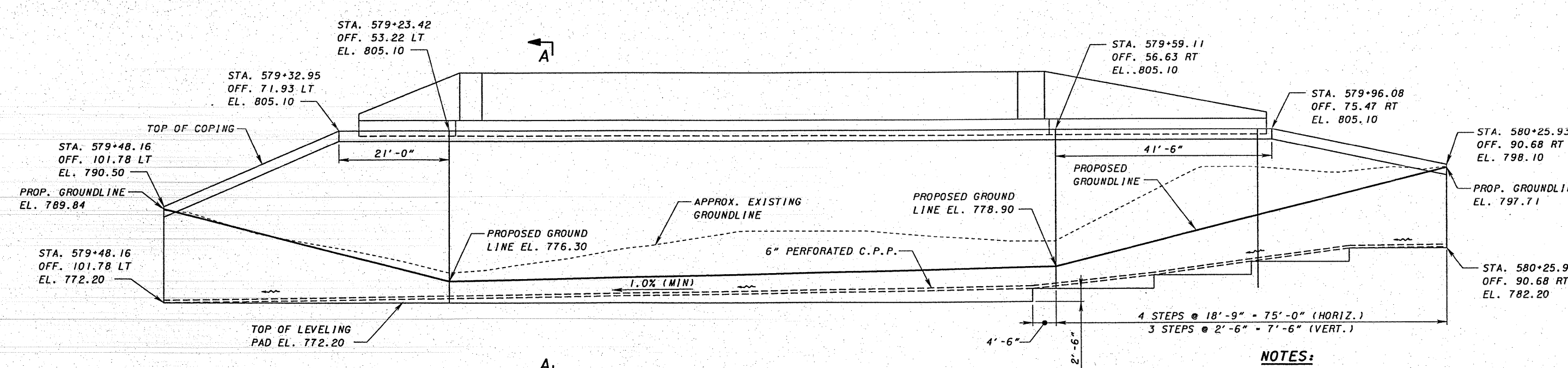
1. SEE SITE PLAN DRAWING FOR BORING LOCATIONS AND APPROX. TOP OF ROCK ELEVATIONS
2. THE SLOPING LINE WHICH DEFINES THE LIMIT OF THE SELECT GRANULAR BACKFILL IS NOT AN ALLOWABLE SLOPE FOR EXCAVATION. CUT THE SIDES OF ALL EXCAVATIONS TO PREVENT CAVING OR PROTECT THE EXCAVATIONS FROM CAVING.
3. ALL REINFORCING STEEL TO BE EPOXY COATED
4. WALL EXCAVATION SHALL EXTEND TO A LEVEL BEDROCK SURFACE. EXCAVATION BELOW THE BOTTOM OF THE LEVELING PAD IS NOT REQUIRED IF COMPETENT BEDROCK IS ENCOUNTERED. THE DEPARTMENT WILL APPROVE WALL EXCAVATION PRIOR TO FOUNDATION PREPARATION
5. PROPRIETARY RETAINING WALL DATA: THE PROPRIETARY WALL SUPPLIER SHALL DESIGN THE INTERNAL STABILITY OF A MECHANICALLY STABILIZED EARTH (MSE) WALL IN ACCORDANCE WITH THE SPECIAL PROVISIONS TO SUPPORT THE ABUTMENT. THE DESIGN FOR INTERNAL STABILITY SHALL INCLUDE AN UNFACTORED HORIZONTAL STRIP LOAD FROM THE SUPERSTRUCTURE OF _____ K/FT APPLIED PERPENDICULAR TO THE FACE OF WALL AT THE BASE OF THE CONCRETE FOOTING.

11/28/2007 3:28:45 PM G:\0003\0061\bridge\cn\bls\13-cr29\bluerun\ts\1823-1096mser.eor02.dgn

DESIGN AGENCY: **Systems**
 DATE: 6/9/07
 REVIEWED: HSL
 DRAWN: DJR
 DESIGNED: MTN
 CHECKED: PJP
 STRUCTURE FILE NUMBER: 7306563L 7306571R
 REAR ABUT. MSE WALL DETAILS
 BRIDGE NO. SC1-823-1096 L&R
 S.R. 823 OVER BLUE RUN ROAD (CR-29)
 SC1-823-10.13
 PID 79977
 6/8
 812
 864



FORWARD ABUTMENT MSE WALL PLAN



FORWARD ABUTMENT MSE WALL ELEVATION

- NOTES:**
1. WALL LOCATIONS GIVEN TO FRONT FACE OF MSE WALL PANELS
 2. WALL ELEVATIONS GIVEN TO TOP OF LEVELING PAD AND TOP OF WALL
 3. SEE SH. 777 FOR SECTION A-A

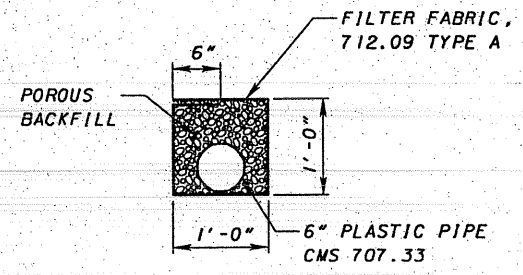
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DESIGNED MTN	CHECKED PJP	DRAWN MTN	REVISED
REVIEWED MSL	DATE 6/9/07	STRUCTURE FILE NUMBER 73065631	DATE 200 73065710

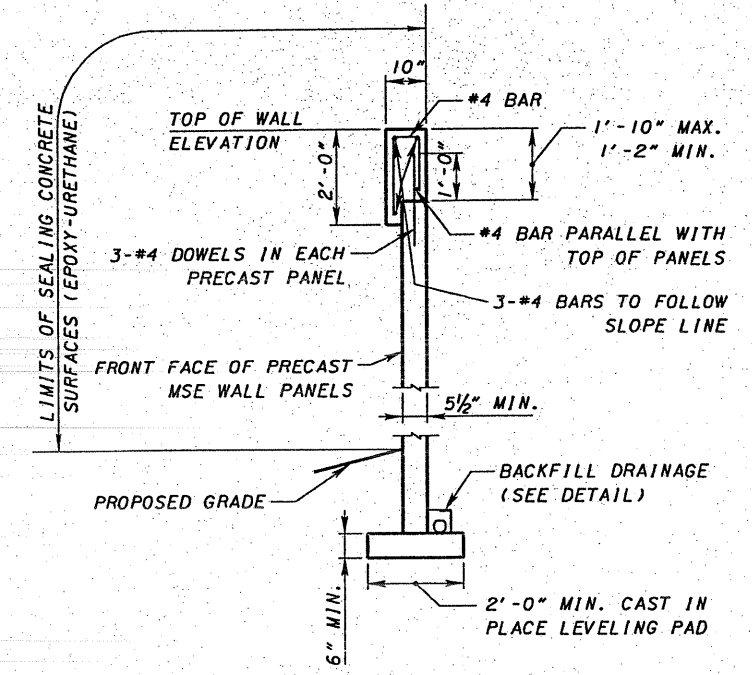
FWD. ABUT. MSE WALL PLAN & ELEVATION
 BRIDGE NO. SCI-823-1096 L&R
 S. R. 823 OVER RIUF RIN ROAD (CR-29)

SCI-823-10.13
 PID 79977

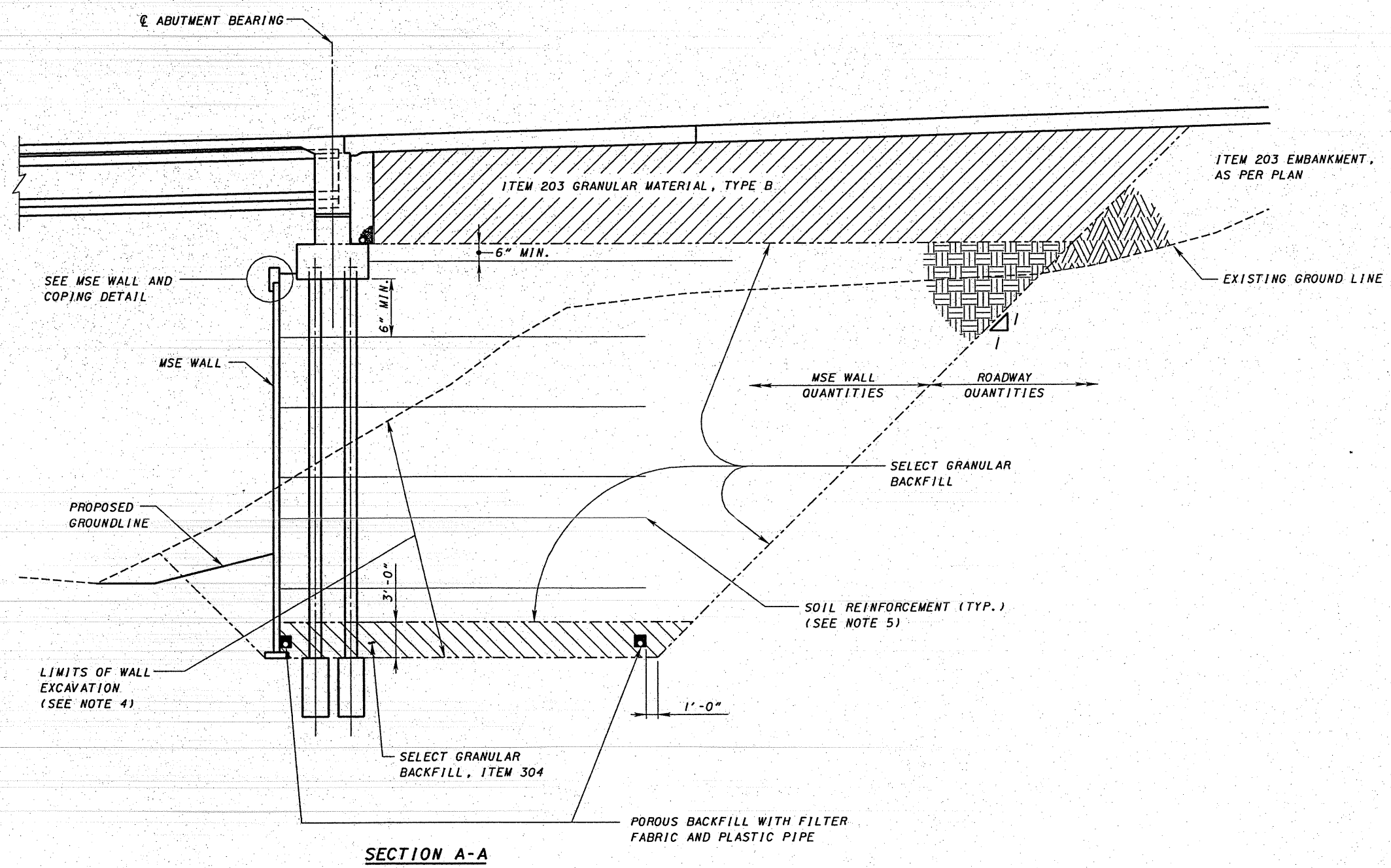
7/8
 813
 864



BACKFILL DRAINAGE DETAIL



MSE WALL AND COPING DETAIL



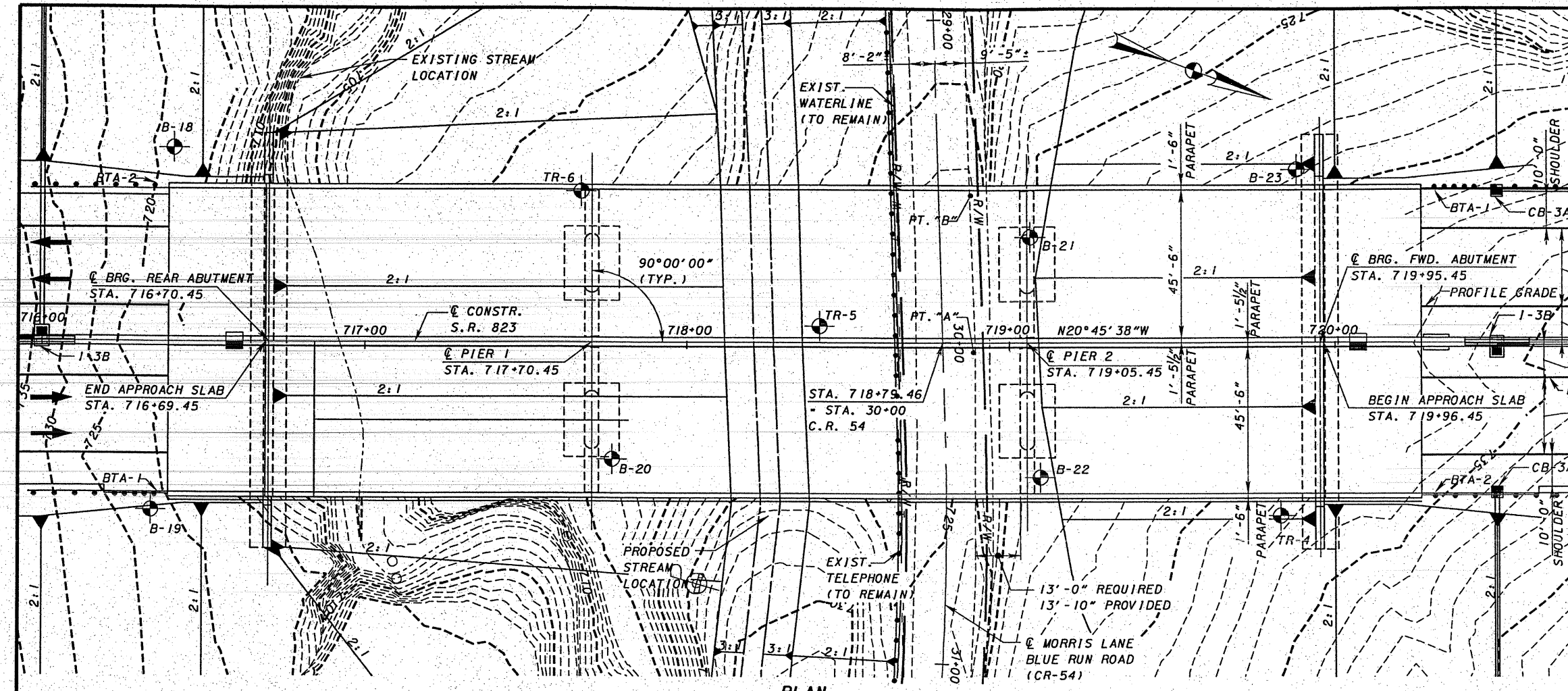
SECTION A-A

NOTES:

1. SEE SITE PLAN DRAWING FOR BORING LOCATIONS AND APPROX. TOP OF ROCK ELEVATIONS
2. THE SLOPING LINE WHICH DEFINES THE LIMIT OF THE SELECT GRANULAR BACKFILL IS NOT AN ALLOWABLE SLOPE FOR EXCAVATION. CUT THE SIDES OF ALL EXCAVATIONS TO PREVENT CAVING OR PROTECT THE EXCAVATIONS FROM CAVING.
3. ALL REINFORCING STEEL TO BE EPOXY COATED
4. WALL EXCAVATION SHALL EXTEND TO A LEVEL BELOW THE BEDROCK SURFACE. EXCAVATION BELOW THE BOTTOM OF THE LEVELING PAD IS NOT REQUIRED IF COMPETENT BEDROCK IS ENCOUNTERED. THE DEPARTMENT WILL APPROVE WALL EXCAVATION PRIOR TO FOUNDATION PREPARATION
5. PROPRIETARY RETAINING WALL DATA: THE PROPRIETARY WALL SUPPLIER SHALL DESIGN THE INTERNAL STABILITY OF A MECHANICALLY STABILIZED EARTH (MSE) WALL IN ACCORDANCE WITH THE SPECIAL PROVISIONS TO SUPPORT THE ABUTMENT. THE DESIGN FOR INTERNAL STABILITY SHALL INCLUDE AN UNFACTORED HORIZONTAL STRIP LOAD FROM THE SUPERSTRUCTURE OF _____ K/FT APPLIED PERPENDICULAR TO THE FACE OF WALL AT THE BASE OF THE CONCRETE FOOTING.

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DESIGNED	MTN	CHECKED	PJP
DRAWN	MTN	REVISED	
REVIEWED	MSL	STRUCTURE FILE NUMBER	7306563L, 7306571R
DATE	6/9/07		



PLAN

BENCHMARK 1	BENCHMARK 2
(TO BE PROVIDED LATER)	(TO BE PROVIDED LATER)

TRAFFIC DATA	
(S.R. 823)	
CURRENT YEAR ADT (2010) - 19,800	DESIGN YEAR ADT (2030) - 26,000
CURRENT YEAR ADTT (2010) - 2,772	DESIGN YEAR ADTT (2030) - 3,640

HYDRAULIC DATA	
DRAINAGE AREA - 147.8 acres	
$Q_{50} = 294$ cfs	$Q_{100} = 353$ cfs
$V_{50} = 12.7$ fps	$V_{100} = 13.6$ fps
EL 50 = 709.53	EL 100 = 709.74

FIRST GUARDRAIL POSTS OFF BRIDGE LOCATIONS	
LOCATION	STA.
REAR ABUT. (NB)	716+35.30
REAR ABUT. (SB)	716+35.20
FWD. ABUT. (NB)	720+30.70
FWD. ABUT. (SB)	720+30.60

- NOTES:**
- ALL SHEETS WITH PLAN DIMENSIONS ARE SHOWN HORIZONTAL.
 - EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
 - THE PROPOSED PROFILE GRADE IS WITHIN BRIDGE LIMITS. SEE ROADWAY PLANS FOR PAVEMENT ELEVATIONS BEYOND BRIDGE LIMITS.

TABLE OF VERTICAL CLEARANCES		
LOCATION	"A"	"B"
PROPOSED	49.08'	46.28'
PREFERRED	15.0'	15.0'

- LEGEND**
- BTA-1 - BRIDGE TERMINAL ASSEMBLY TYPE 1
 - BTA-2 - BRIDGE TERMINAL ASSEMBLY TYPE 2
 - ⊙ - BORING LOCATION
 - - SETTLEMENT PLATFORM

PROPOSED STRUCTURE

TYPE: 3 SPAN CONTINUOUS 72" MODIFIED AASHTO TYPE 4 PRESTRESSED CONCRETE I-BEAM WITH COMPOSITE REINFORCED CONCRETE DECK SUPPORTED BY T-TYPE PIERS AND SEMI-INTEGRAL ABUTMENT SUBSTRUCTURES ON SPREAD FOOTINGS.

SPANS: 98'-9 1/2", 132'-7", 88'-9 1/2" (C/C BRG.)

ROADWAY: 2 - 45'-6" T/T PARAPETS

LOADING: HS-25 AND ALTERNATE MILITARY LOADING, FWS-60 PSF

SKEW: NONE

CROWN: 0.016 FT/FT

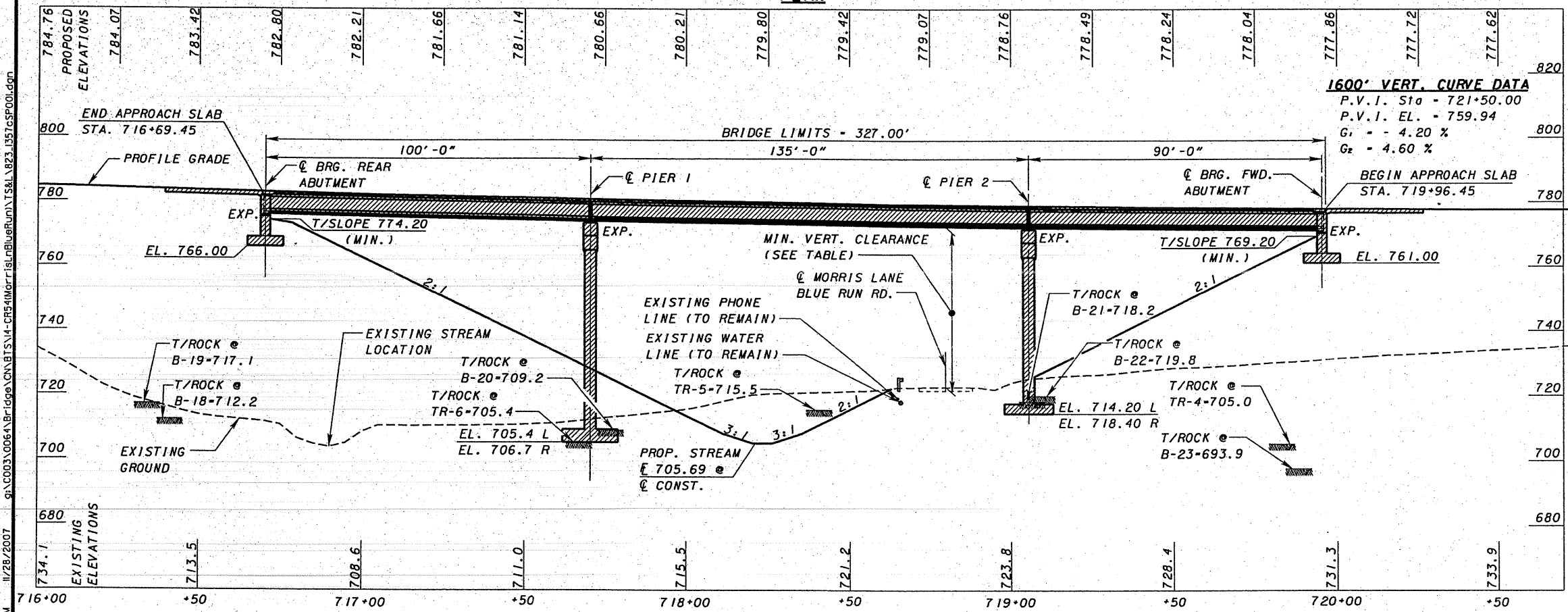
ALIGNMENT: TANGENT

WEARING SURFACE: MONOLITHIC CONCRETE

APPROACH SLABS: AS-1-81 (30' LONG)

LATITUDE: 82° 56' 56" N

LONGITUDE: 38° 52' 59" W



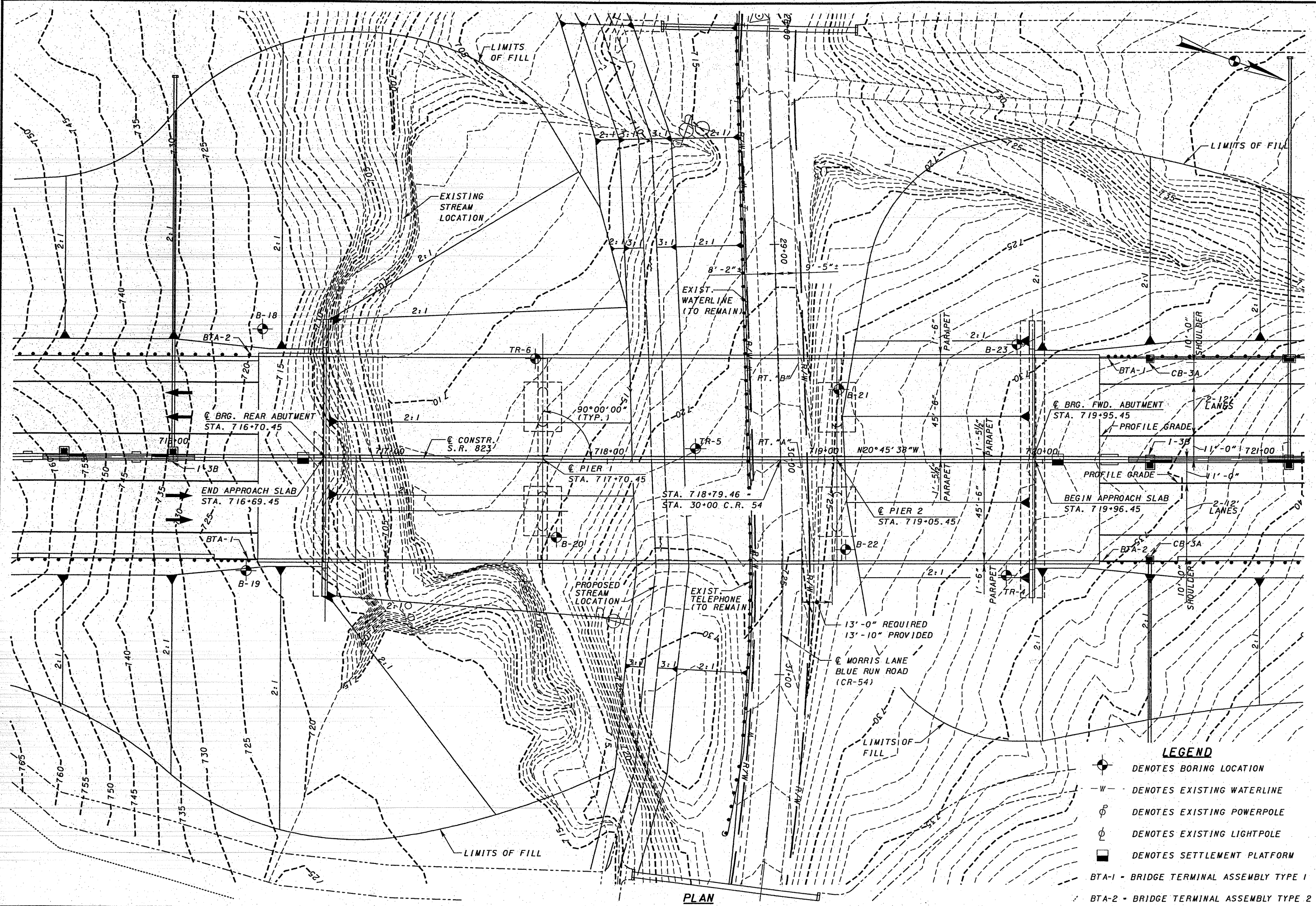
1600' VERT. CURVE DATA	
P.V.I. Sta - 721+50.00	P.V.I. EL. - 759.94
$G_1 = -4.20\%$	$G_2 = 4.60\%$

PROFILE ALONG PROFILE GRADE S.R. 823 LEFT BRIDGE

11/28/2007 4:53:26 PM g:\c003\006\1\Bridges\CON\BTS\14-CR54\Morris\BlueRun\T&L\B23-135765F001.dgn

DESIGN AGENCY: **TRC Systems**
 DATE: 06/08/07
 REVIEWED: MSL
 DRAWN: CAS
 DESIGNED: PJP
 CHECKED: MSL
 SCIO TO COUNTY: STA. 716+69.45
 STA. 719+96.45
 BRIDGE NO. SCI-823-1357 L&R
 S.R. 823 OVER MORRIS LANE BLUE RUN (C.R. 54)
 SCI-823-10.13
 PID 79977
 815
 864

4:54:00 PM 11/28/2007 g:\c003\0064\Br-ldge\CON\BTS\N4-CR54\Morris\BlueRun\TS&L\823_1357CGP001.dgn



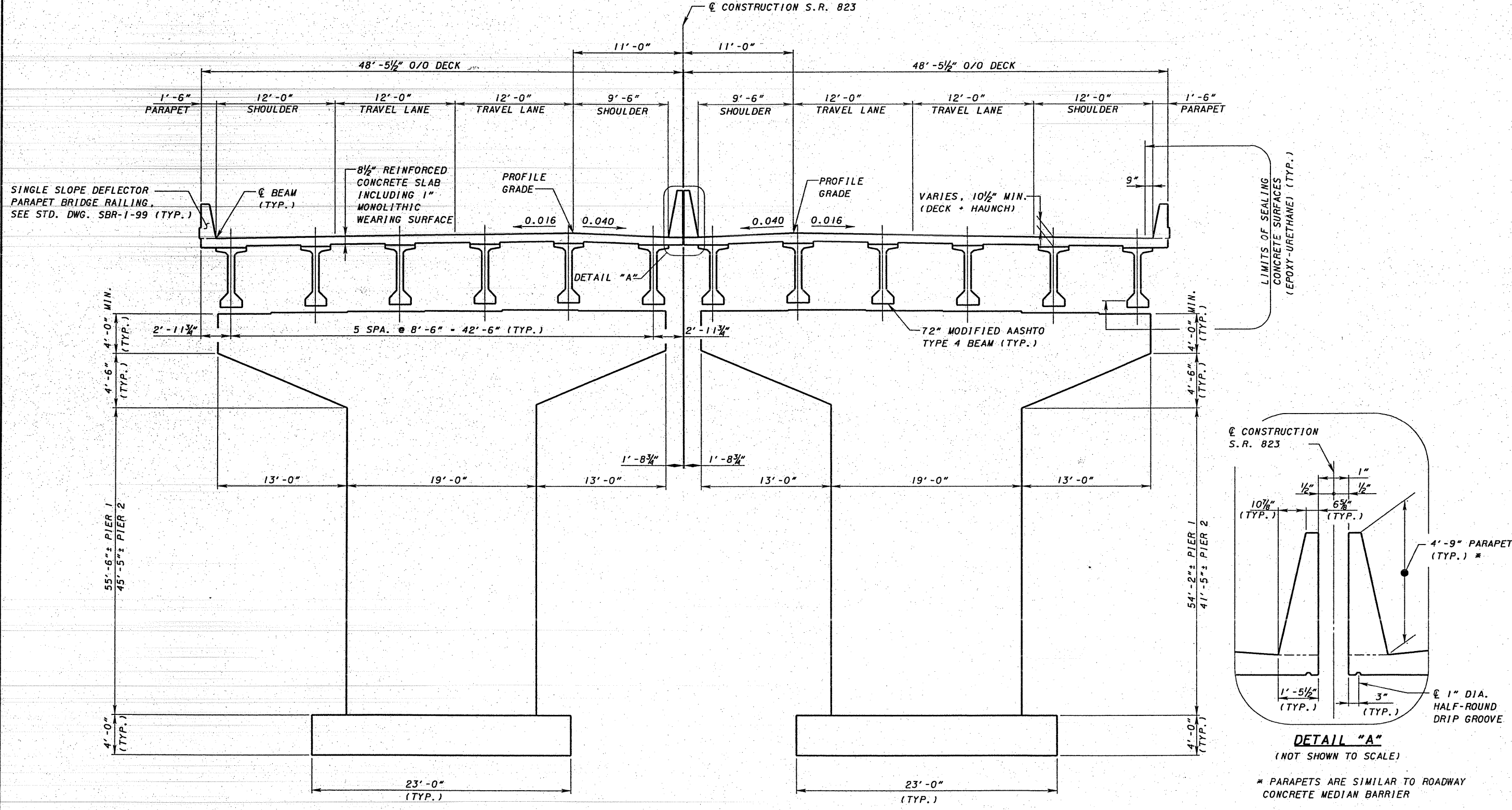
PLAN

LEGEND

- DENOTES BORING LOCATION
- DENOTES EXISTING WATERLINE
- DENOTES EXISTING POWERPOLE
- DENOTES EXISTING LIGHTPOLE
- DENOTES SETTLEMENT PLATFORM
- BTA-1 - BRIDGE TERMINAL ASSEMBLY TYPE 1
- BTA-2 - BRIDGE TERMINAL ASSEMBLY TYPE 2

DESIGNED BY MSL	DATE 06/08/07	DRAWN BY CAS	REVIEWED BY MSL	PROJECT NO. 7306601L	SHEET NO. 7306620R
GENERAL PLAN					
BRIDGE NO. SCI-823-1357 L&R					
S.R. 823 OVER MORRIS LANE BLUE RUN (C.R. 54)					
SCIO TO COUNTY STA. 716+69.45 STA. 719+96.45					
PID 79977					
2 / 4					
816 864					

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TYPICAL TRANSVERSE SECTION

DESIGN AGENCY: **TRANS SYSTEMS**
5040 PERIMETER DRIVE, SUITE 400
 FORT WORTH, TEXAS 76104

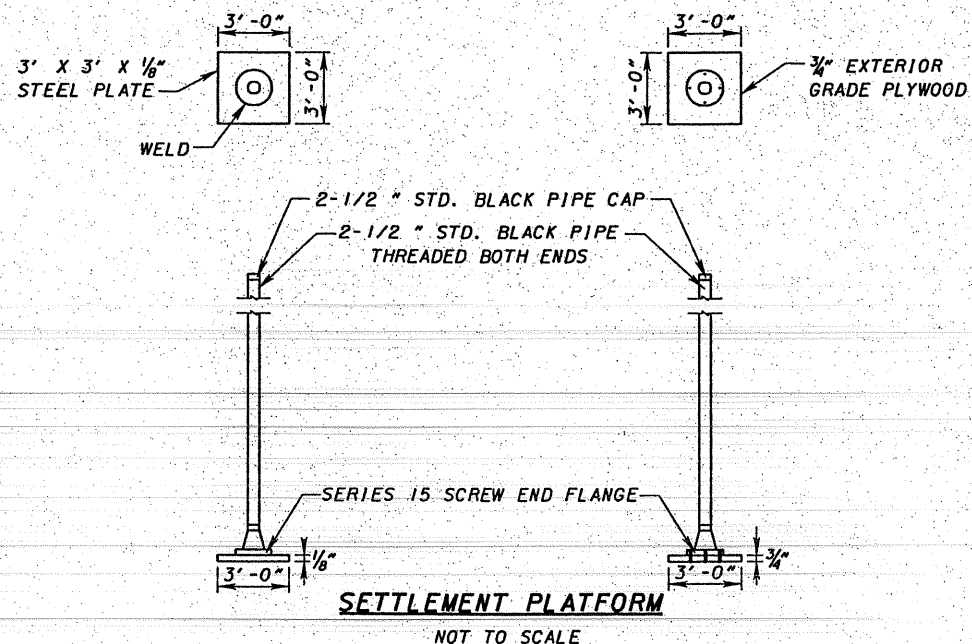
DESIGNED	MSL	CHECKED	PJP
DRAWN	CAS	REVISED	MTN
REVIEWED	MSL	STRUCTURE FILE NUMBER	73066011, 73066208
DATE	06/08/07		

TRANSVERSE SECTION
 BRIDGE NO. SC1-823-1357 L&R
 S.R. 823 OVER MORRIS LANE, BLUE RUN (C.R. 54)

SCI-823-10.13
 PID 79977

3 / 4

817
 864



SUPERSTRUCTURE DEPTH	
ITEM	72" MODIFIED AASHTO TYPE 4 BEAM
SLAB (INCLUDING WEARING SURFACE)	8.5"
HAUNCH (BOTTOM OF SLAB TO TOP OF FLANGE)	2"
GIRDER DEPTH	72"
TOP OF WEARING SURFACE TO BOTTOM OF GIRDER FLANGE (INCH)	82.5"
TOP OF WEARING SURFACE TO BOTTOM OF GIRDER FLANGE (FEET)	6.875'

NOTES:

1. SETTLEMENT PLATFORMS SHALL BE PLACED AT THE LOCATION INDICATED IN THE PLANS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. CONTRACTOR HAS OPTION OF USING EITHER STEEL OR PLYWOOD PLATFORM BASE.
3. CONTRACTOR SHALL FURNISH MATERIALS AND LABOR TO EXTEND PIPE UP THROUGH ENTIRE FILL.
4. SETTLEMENT PLATFORMS SHALL BE ANCHORED BY STAKES DRIVEN AT EACH CORNER TO PREVENT OVERTURNING.

ITEM SPECIAL--SETTLEMENT PLATFORMS

DESCRIPTION: THIS ITEM CONSISTS OF FURNISHING, CONSTRUCTING, AND MAINTAINING SETTLEMENT PLATFORMS AND OBTAINING SETTLEMENT READINGS AS REQUIRED BY THE PLANS OR AS DIRECTED BY THE ENGINEER. AT THE OPTION AND EXPENSE OF THE CONTRACTOR, ADDITIONAL SETTLEMENT PLATFORMS MAY BE INSTALLED AT LOCATIONS APPROVED BY THE ENGINEER. SETTLEMENT READINGS SHALL BE TAKEN WEEKLY DURING CONSTRUCTION AND DURING ANY SPECIFIED WAITING PERIOD. THE READINGS SHALL BE PLOTTED ON GRAPH PAPER PRESENTING DEFORMATION (ON THE NEGATIVE Y-AXIS) AND FILL HEIGHT (ON THE POSITIVE Y-AXIS) VERSUS TIME (ON THE X-AXIS). A COPY OF EACH CUMULATIVE PLOT SHALL BE SENT TO THE OFFICE OF GEOTECHNICAL ENGINEERING, ATTENTION: GEOTECHNICAL DESIGN COORDINATOR, AFTER EACH SETTLEMENT READING IS RECORDED.

MATERIALS: SOUND LUMBER SUCH AS 3/4" EXTERIOR GRADE PLYWOOD SHALL BE USED FOR THE BASE. THE PIPE SHALL BE 2 1/2" STANDARD BLACK PIPE WITH THREADED FITTINGS AS SHOWN ON THE PLANS. A STEEL PLATE 36" x 36" x 1/8" MAY BE SUBSTITUTED FOR THE LUMBER FOR THE PLATFORMS, AT THE CONTRACTOR'S OPTION.

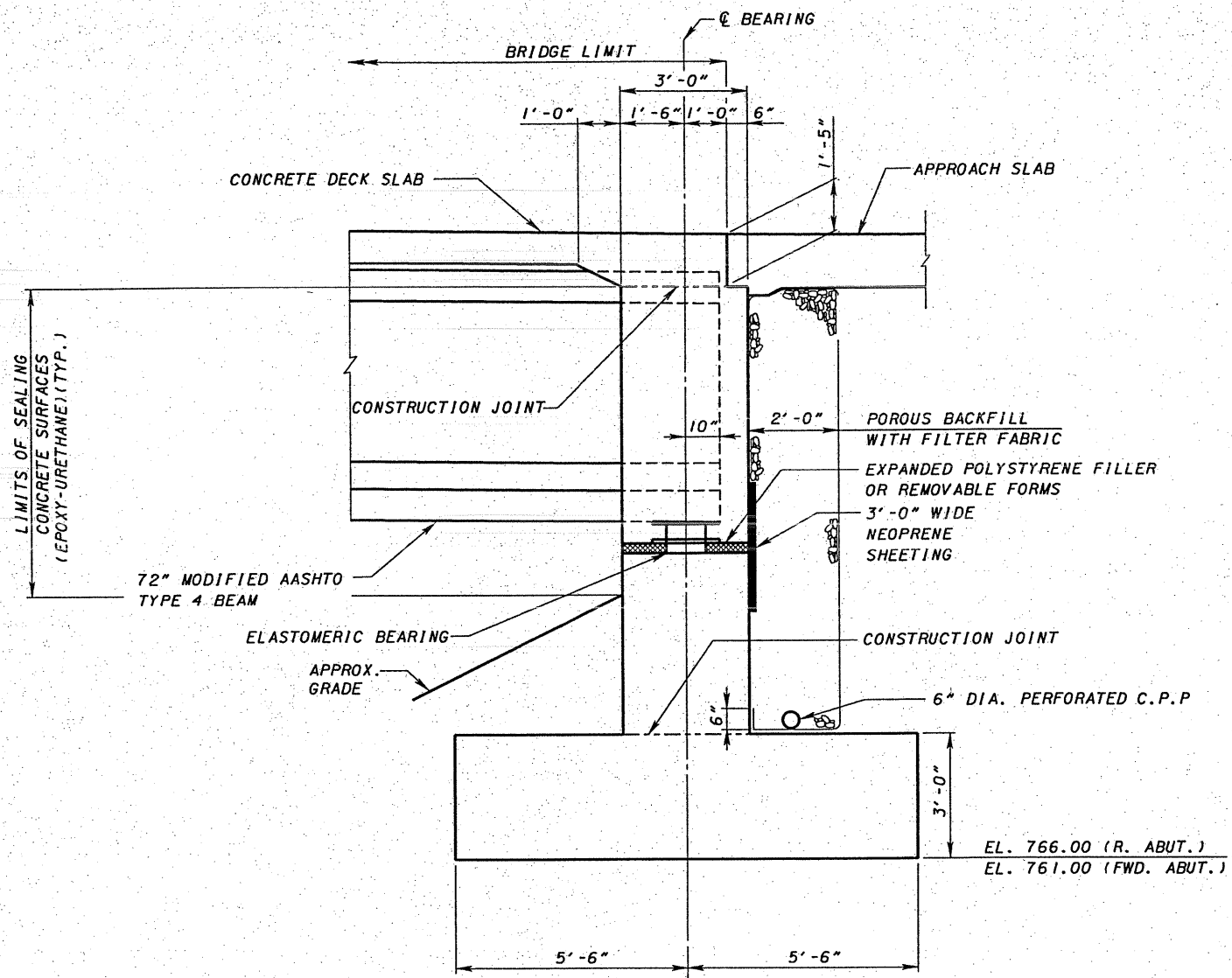
CONSTRUCTION METHODS: THE PLATFORM SHALL CONFORM TO THE DETAILS SHOWN ON THE PLANS.

THE PLATFORM AT THE FORWARD ABUTMENT SHALL BE PLACED ON THE IN-SITU SOIL PRIOR TO EMBANKMENT CONSTRUCTION. THE PLATFORM AT THE REAR ABUTMENT SHALL BE PLACED AT THE TOP OF THE FINISHED EMBANKMENT PRIOR TO SURCHARGE CONSTRUCTION.

PRIOR TO PAVING, THE TOP OF THE SETTLEMENT PLATFORM PIPE SHALL BE CUT OFF 2 FEET BELOW THE FINISHED SURFACE OF THE SUBGRADE OR FINISHED GROUND SURFACE, WHICHEVER IS APPLICABLE.

METHOD OF MEASUREMENT: THE NUMBER OF SETTLEMENT PLATFORMS TO BE PAID FOR SHALL BE THE ACTUAL NUMBER OF SETTLEMENT PLATFORMS COMPLETED, MAINTAINED, AND ACCEPTED BY THE ENGINEER.

BASIS OF PAYMENT: PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE EACH FOR "ITEM SPECIAL--SETTLEMENT PLATFORMS" WHICH IS COMPENSATION FOR CONSTRUCTING, MAINTAINING, AND MONITORING THE SETTLEMENT PLATFORMS INCLUDING FURNISHING ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. PAYMENT SHALL NOT BE MADE FOR SETTLEMENT PLATFORMS WHICH BECOME USELESS DUE TO DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS.



ABUTMENT SECTION

NOTES:

1. CONSTRUCTION CONSTRAINTS: PRIOR TO CONSTRUCTING THE SPREAD FOOTING FOUNDATIONS, CONSTRUCT THE BRIDGE APPROACH EMBANKMENTS BEHIND THE ABUTMENT UP AT A 1:1 SLOPE FROM THE BOTTOM OF THE HEEL OF THE FOOTING TO SUBGRADE ELEVATION AND FOR A MINIMUM DISTANCE OF 250 FEET BEHIND THE ABUTMENTS. AFTER THE ABUTMENT FOOTING AND BREASTWALL ARE COMPLETED AND PRIOR TO SETTING SUPERSTRUCTURE MEMBERS, CONSTRUCT THE EMBANKMENT IMMEDIATELY BEHIND THE ABUTMENT UP TO THE BEAM SEAT ELEVATION AND ON A 1:1 SLOPE UP TO THE SUBGRADE ELEVATION, WITH TYPE B GRANULAR MATERIAL CONFORMING TO 703.16.C.
2. ITEM 203 EMBANKMENT, AS PER PLAN: PLACE AND COMPACT EMBANKMENT MATERIAL IN 6 INCH LIFTS FOR THE CONSTRUCTION OF THE APPROACH EMBANKMENT BETWEEN STATIONS 714+70 TO 721+95.

4:52:54 PM 11/28/2007 G:\C003\0064\Bridges\CON\B1\5\1\4-CR54\Wor\1\el\BlueRun\TSA1_823_1357\cAB001.dgn

DESIGN AGENCY: **Systems**
 DATE: 06/08/07
 REVIEWED: MSL
 DRAWN: CAS
 DESIGNED: PJP
 CHECKED: MSL
 STRUCTURE FILE NUMBER: 730660 IL, 730662R
 REVISION: MSL
 BRIDGE NO. SC1-823-1357 L&R
 S. R. 823 OVER MORRIS LANE BLUE RUN ROAD (C. R. 54)
 TYPICAL ABUTMENT SECTION
 PID 79977
 4/4
 818/864

CURVE DATA - RAMP B
P.I. Sta = 2609+99.07
 $\Delta = 102^\circ 45' 15''$ (RT)
 $D_c = 11^\circ 15' 00''$
 $R = 509.30'$
 $T = 637.46'$
 $L = 913.37'$
 $E = 306.63'$

CONCRETE SLOPE PAVING,
AS PER PLAN

TRAFFIC DATA
CURRENT ADT (2010) = 2700
DESIGN ADT (2030) = 3600
DESIGN ADTT = 500

LEGEND
INDICATES BORING LOCATION

NOTES
EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
POWER AND TELEPHONE LINES TO BE RELOCATED.

PROPOSED STRUCTURE

TYPE: SINGLE SPAN COMPOSITE PRESTRESSED CONCRETE I-BEAMS WITH REINFORCED CONCRETE DECK AND SEMI-INTEGRAL ABUTMENTS ON MSE WALLS

LENGTH OF SPAN: 96'-11 $\frac{3}{4}$ " C-C BEARINGS, MEASURED ALONG @ CONSTRUCTION

ROADWAY: 30'-0" TOE/TOE PARAPETS

SIDEWALK: NONE

DESIGN LOADING: HS25 AND THE ALTERNATE MILITARY LOADING, FWS = 60 LB/FT²

SKEW: 10°54'50" LEFT FORWARD, MEASURED FROM THE NORMAL TO THE CONSTRUCTION CHORD

WEARING SURFACE: MONOLITHIC CONCRETE

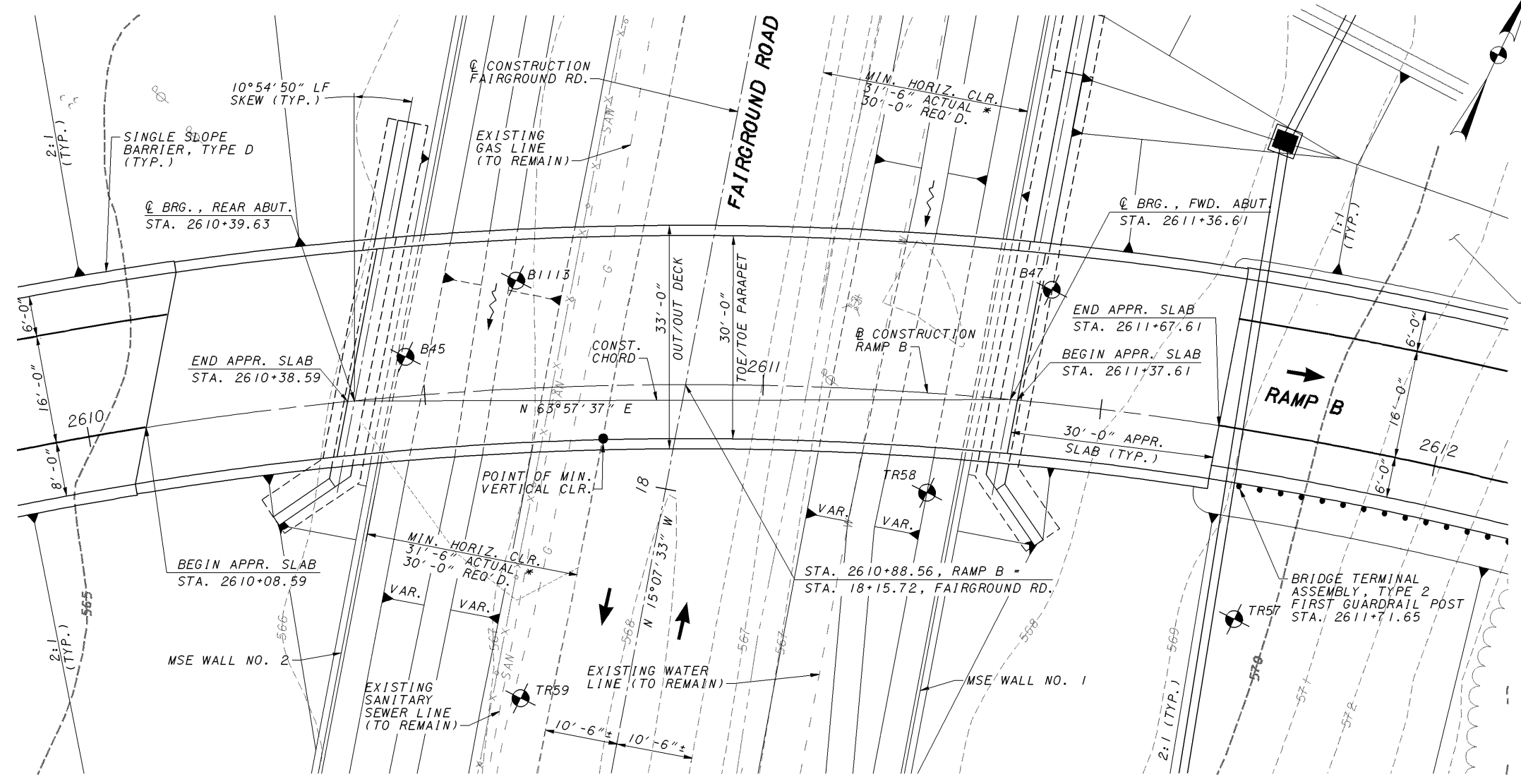
APPROACH SLABS: AS-1-81 (30'-0" LONG)

ALIGNMENT: HORIZONTALLY CURVED (@ RADIUS = 509.30')

SUPERELEVATION: 0.071 FT/FT

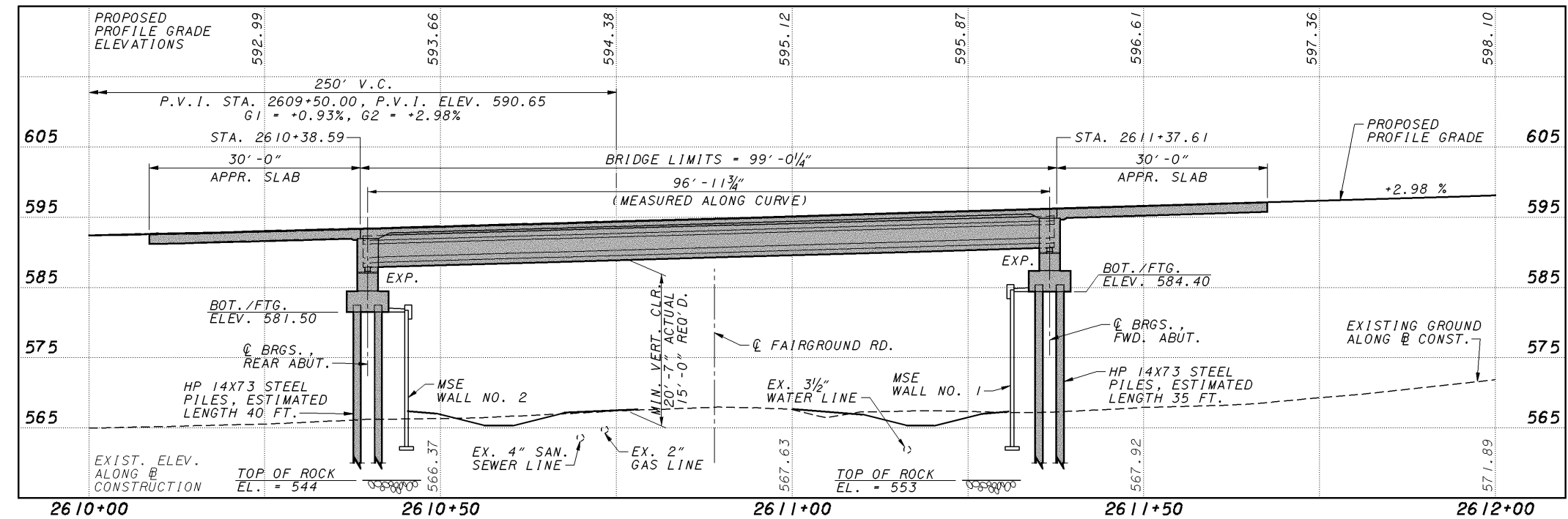
LATITUDE: N 38°53'31"

LONGITUDE: W 82°59'51"



PLAN

* 31'-6" PROVIDED TO PERMIT FUTURE 12'-0" LANE



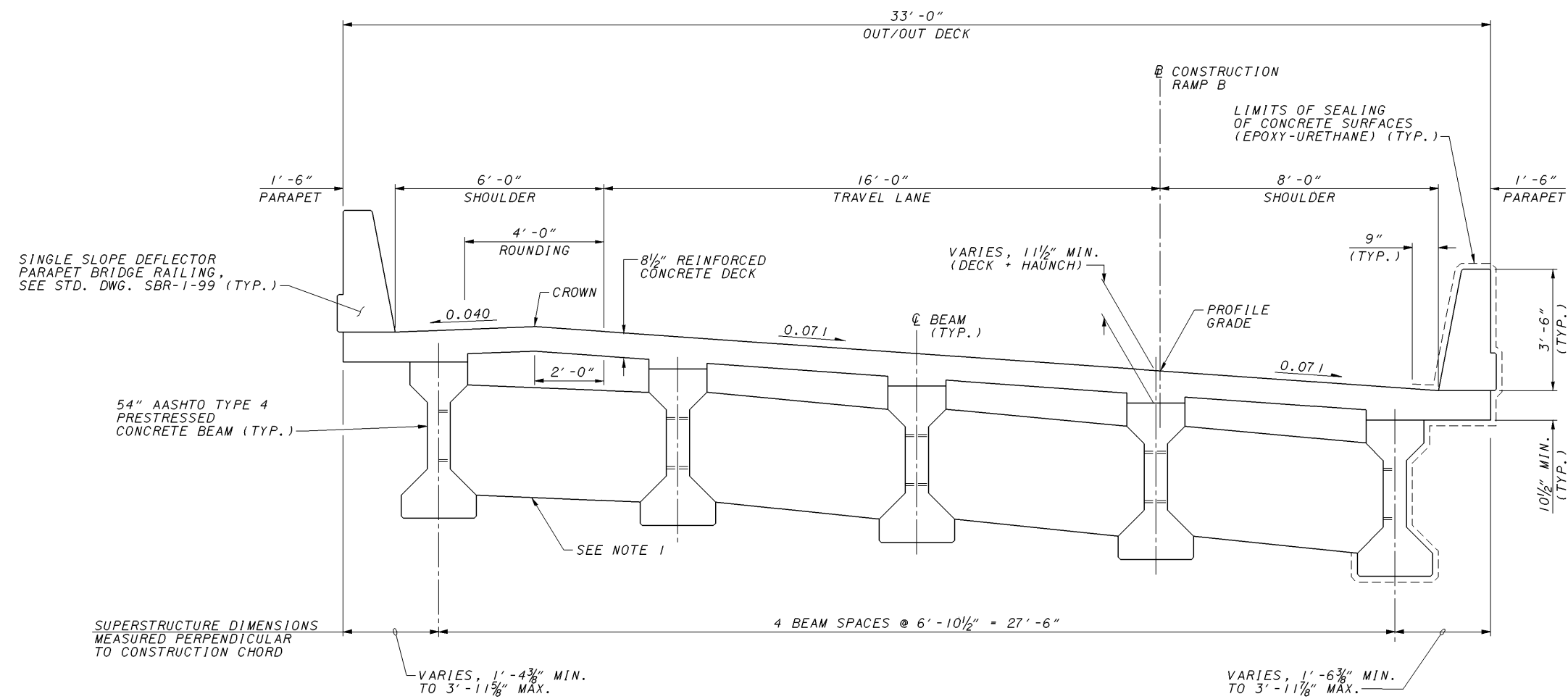
PROFILE ALONG @ CONSTRUCTION, RAMP B

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TYPICAL TRANSVERSE SECTION

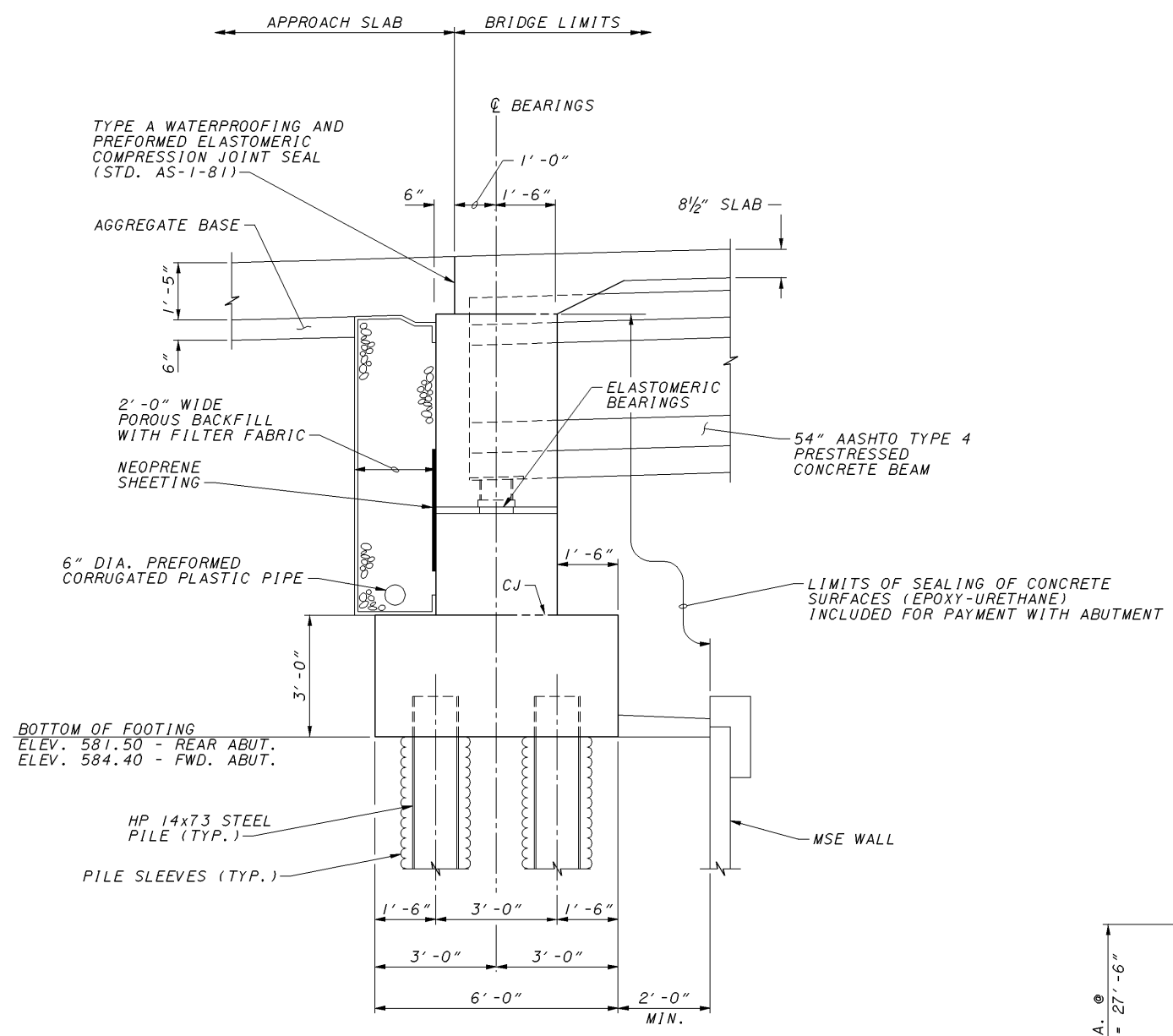
NOTES:

1. INTERMEDIATE DIAPHRAGMS MAY BE CAST-IN-PLACE CONCRETE OR GALVANIZED STEEL. FOR DETAILS OF BOTH DIAPHRAGM TYPES, SEE STANDARD CONSTRUCTION DRAWING PSID-1-99.

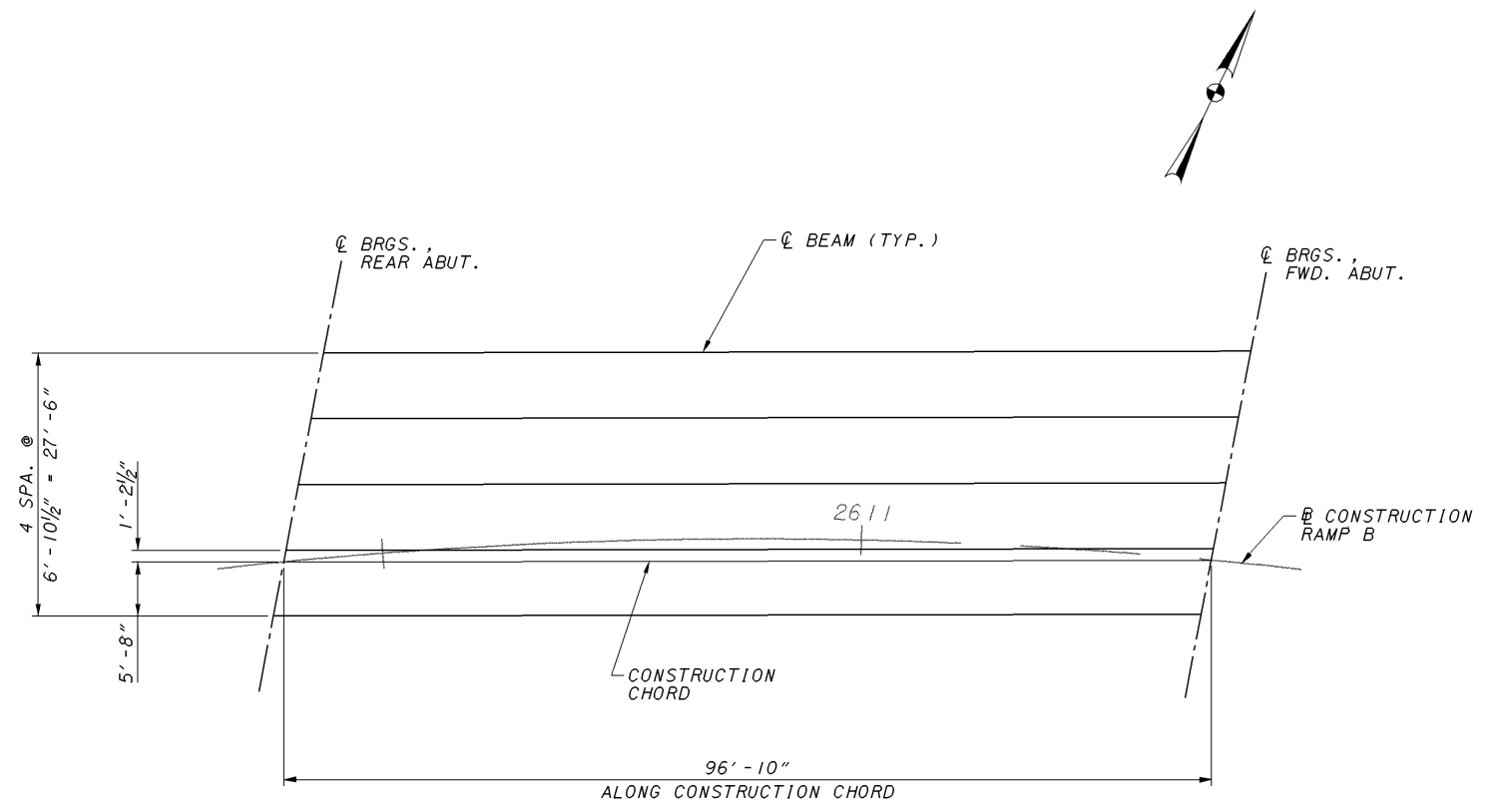
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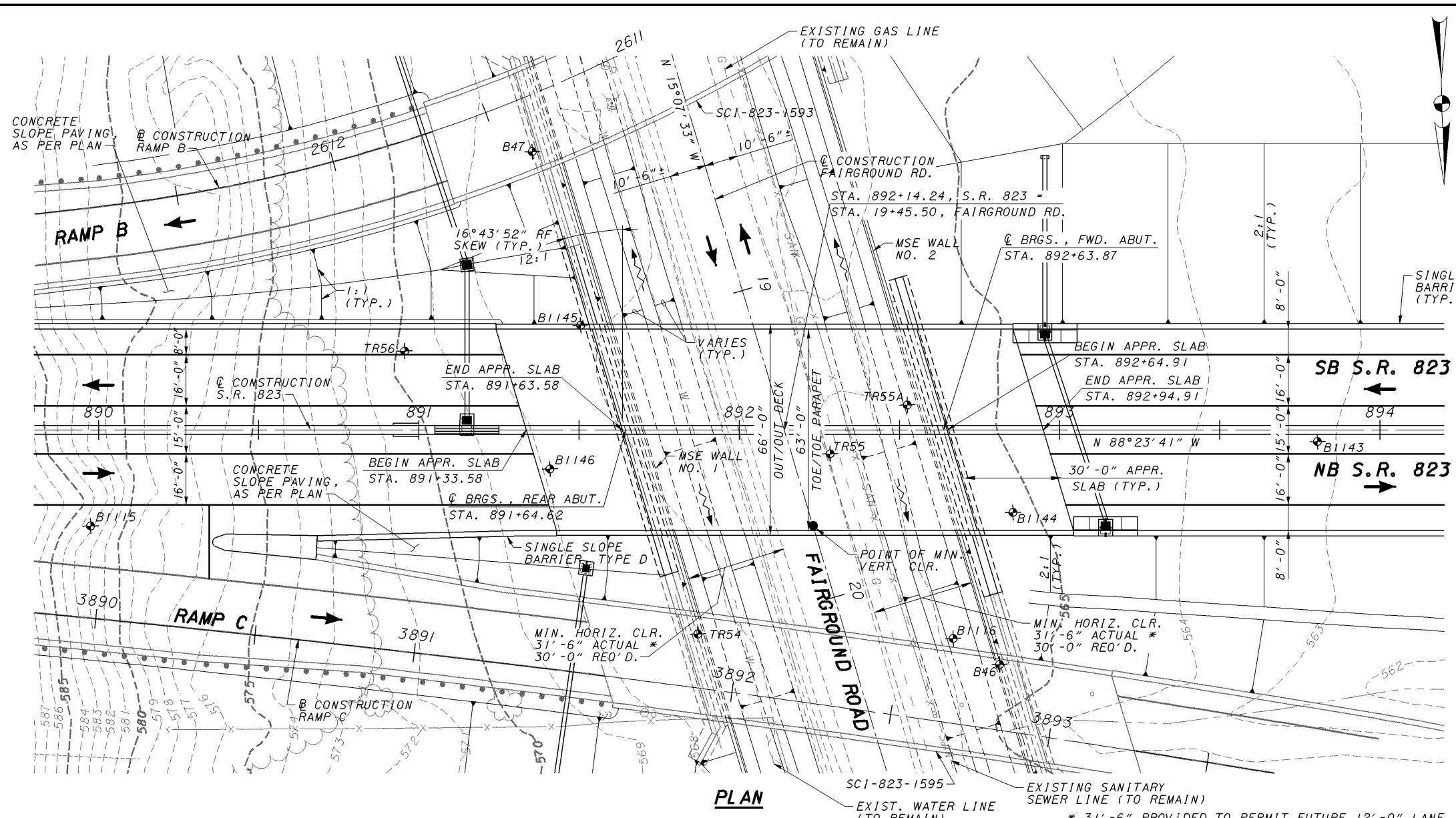
REAR AND FORWARD ABUTMENT SECTION



FRAMING PLAN

DESIGNED	DGS	CHECKED	SKT
DRAWN	JBA	REVISED	
REVIEWED	SCJ	STRUCTURE FILE NUMBER	7306717
DATE	10/07		

11/26/2007 11:55 AM \\varies\PlanSets-400_sci823_half.pen
 melben 823_1594csp001.dgn



BENCHMARKS

TRAFFIC DATA

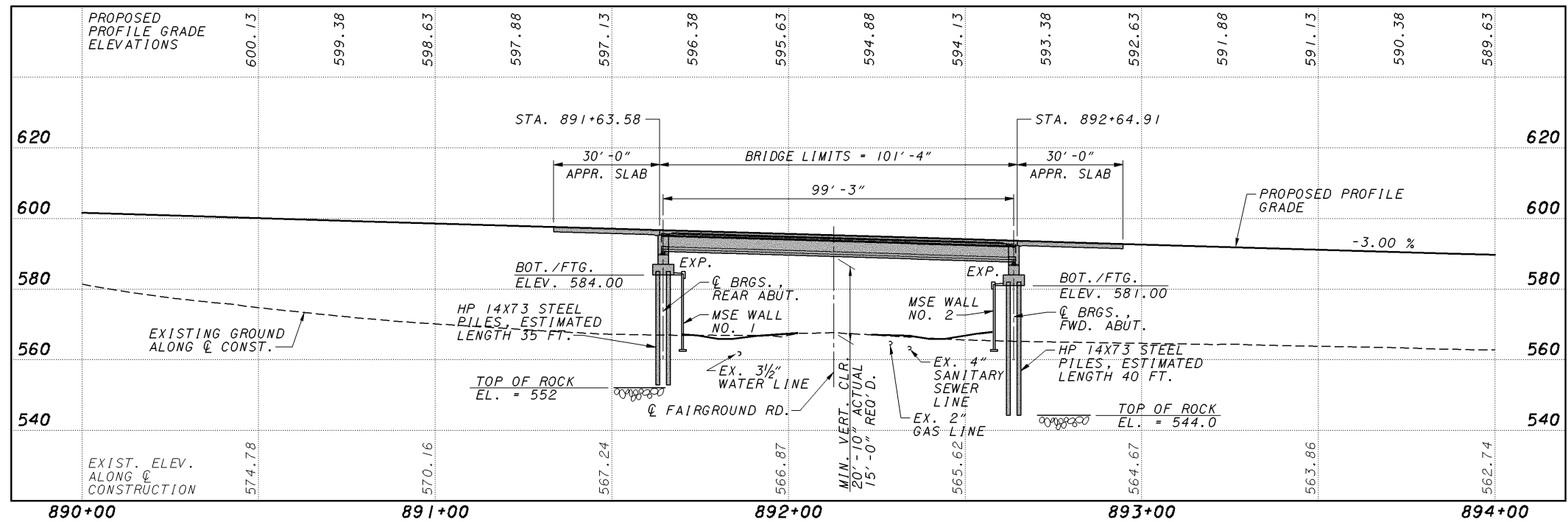
CURRENT ADT (2010) = 8900
 DESIGN ADT (2030) = 13000
 DESIGN ADTT = 1820

LEGEND

◆ INDICATES BORING LOCATION

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
 POWER AND TELEPHONE LINES TO BE RELOCATED.



PROPOSED STRUCTURE

TYPE: SINGLE SPAN COMPOSITE PRESTRESSED CONCRETE I-BEAMS WITH REINFORCED CONCRETE DECK AND SEMI-INTEGRAL ABUTMENTS ON MSE WALLS

LENGTH OF SPAN: 99'-3" C-C BEARINGS, MEASURED ALONG Q CONSTRUCTION

ROADWAY: 30'-1 1/8" TOE/TOE PARAPETS (RB)
 30'-1 1/8" TOE/TOE PARAPETS (LB)

SIDEWALK: NONE

DESIGN LOADING: HS25 AND THE ALTERNATE MILITARY LOADING, FWS = 60 LB/FT²

SKEW: 16°43'52" RIGHT FORWARD

WEARING SURFACE: MONOLITHIC CONCRETE

APPROACH SLABS: AS-1-81 (30'-0" LONG)

ALIGNMENT: TANGENT

CROWN: 0.016 FT/FT

LATITUDE: N 38°53'32"

LONGITUDE: W 82°59'52"

DESIGN AGENCY: **CH2MHILL**
 5775 Perimeter Drive, Suite 180
 Dublin, Ohio 43017

DATE: 09/07
 REVIEWED: SCJ
 DRAWN: JBA
 DESIGNED: JBA
 CHECKED: SKT

STRUCTURE FILE NUMBER: 7306725

SC100 COUNTY
 STA. 891+63.58
 TO STA. 892+64.91

S I T E P L A N
 BRIDGE NO. SCI-823-1594
 S.R. 823 OVER FAIRGROUND ROAD

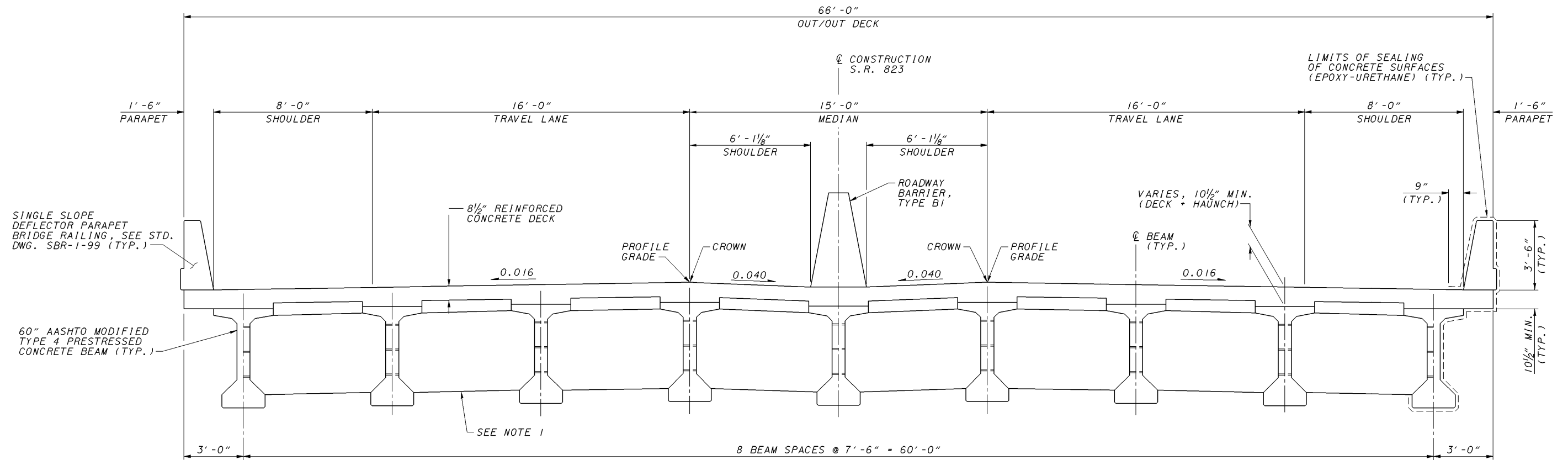
SCI-823-10.13
 PID 79977

1 / 3
 827

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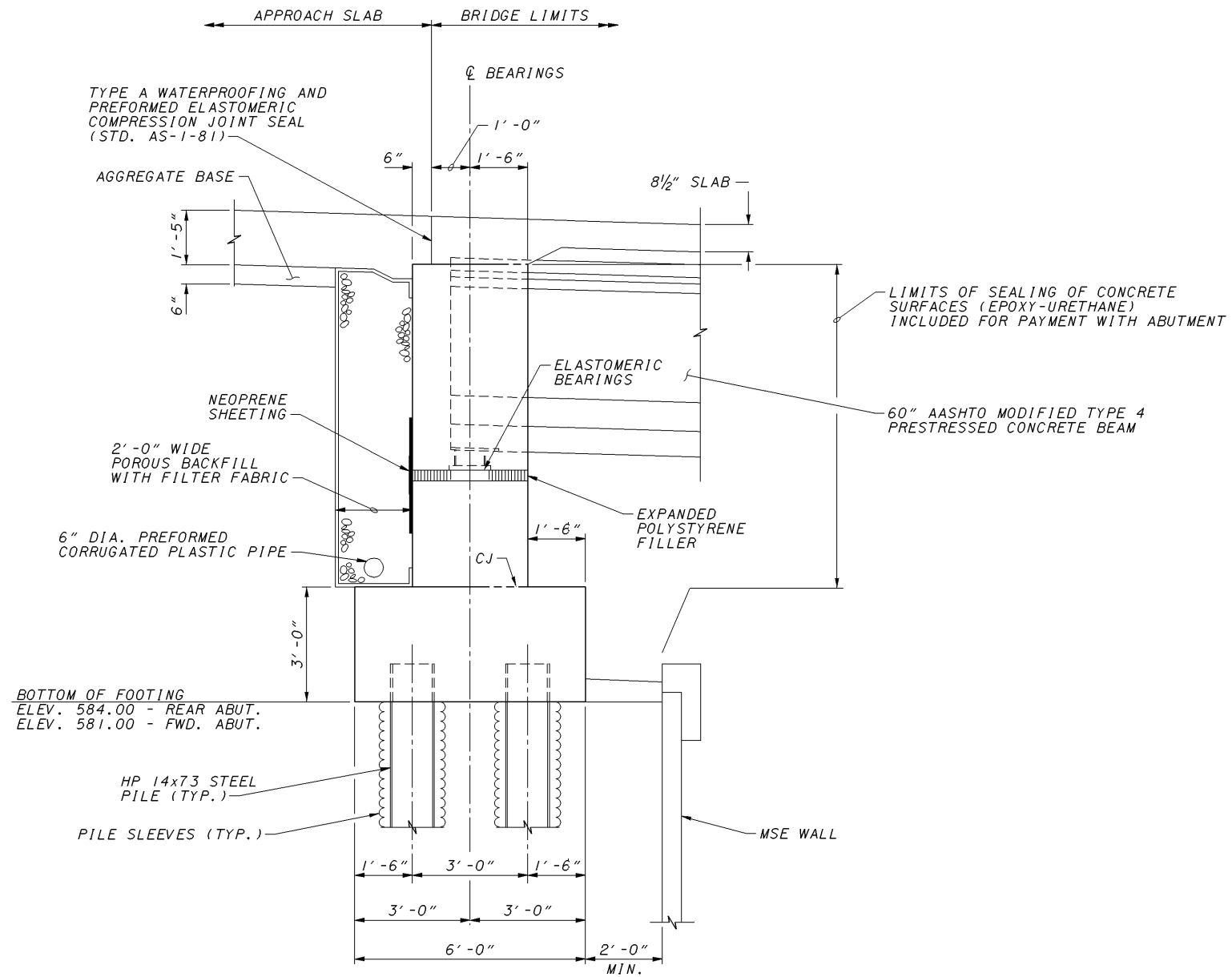
meiben 823_1594.ctb.dgn



TYPICAL TRANSVERSE SECTION

NOTES:

- INTERMEDIATE DIAPHRAGMS MAY BE CAST-IN-PLACE CONCRETE OR GALVANIZED STEEL. FOR DETAILS OF BOTH DIAPHRAGM TYPES, SEE STANDARD CONSTRUCTION DRAWING PSID-1-99.



REAR AND FORWARD ABUTMENT SECTION

CURVE DATA - RAMP C
 P.I. Sta = 3889+21.16
 $\Delta = 9^\circ 37' 49''$ (RT)
 $D_c = 1^\circ 00' 00''$
 $R = 5,729.58'$
 $T = 482.65'$
 $L = 963.03'$
 $E = 20.29'$

TRAFFIC DATA
 CURRENT ADT (2010) = 6200
 DESIGN ADT (2030) = 9400
 DESIGN ADTT = 1320

LEGEND
 ✦ INDICATES BORING LOCATION

NOTES
 EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
 POWER AND TELEPHONE LINES TO BE RELOCATED

PROPOSED STRUCTURE

TYPE: SINGLE SPAN COMPOSITE PRESTRESSED CONCRETE I-BEAMS WITH REINFORCED CONCRETE DECK AND SEMI-INTEGRAL ABUTMENTS ON MSE WALLS

LENGTH OF SPAN: 104'-8" C-C BEARINGS, MEASURED ALONG @ CONSTRUCTION

ROADWAY: 30'-0" TOE/TOE PARAPETS

SIDEWALK: NONE

DESIGN LOADING: HS25 AND THE ALTERNATE MILITARY LOADING, FWS = 60 LB/FT²

SKEW: 24°46'49" RIGHT FORWARD, MEASURED FROM THE NORMAL TO THE CONSTRUCTION CHORD

WEARING SURFACE: MONOLITHIC CONCRETE

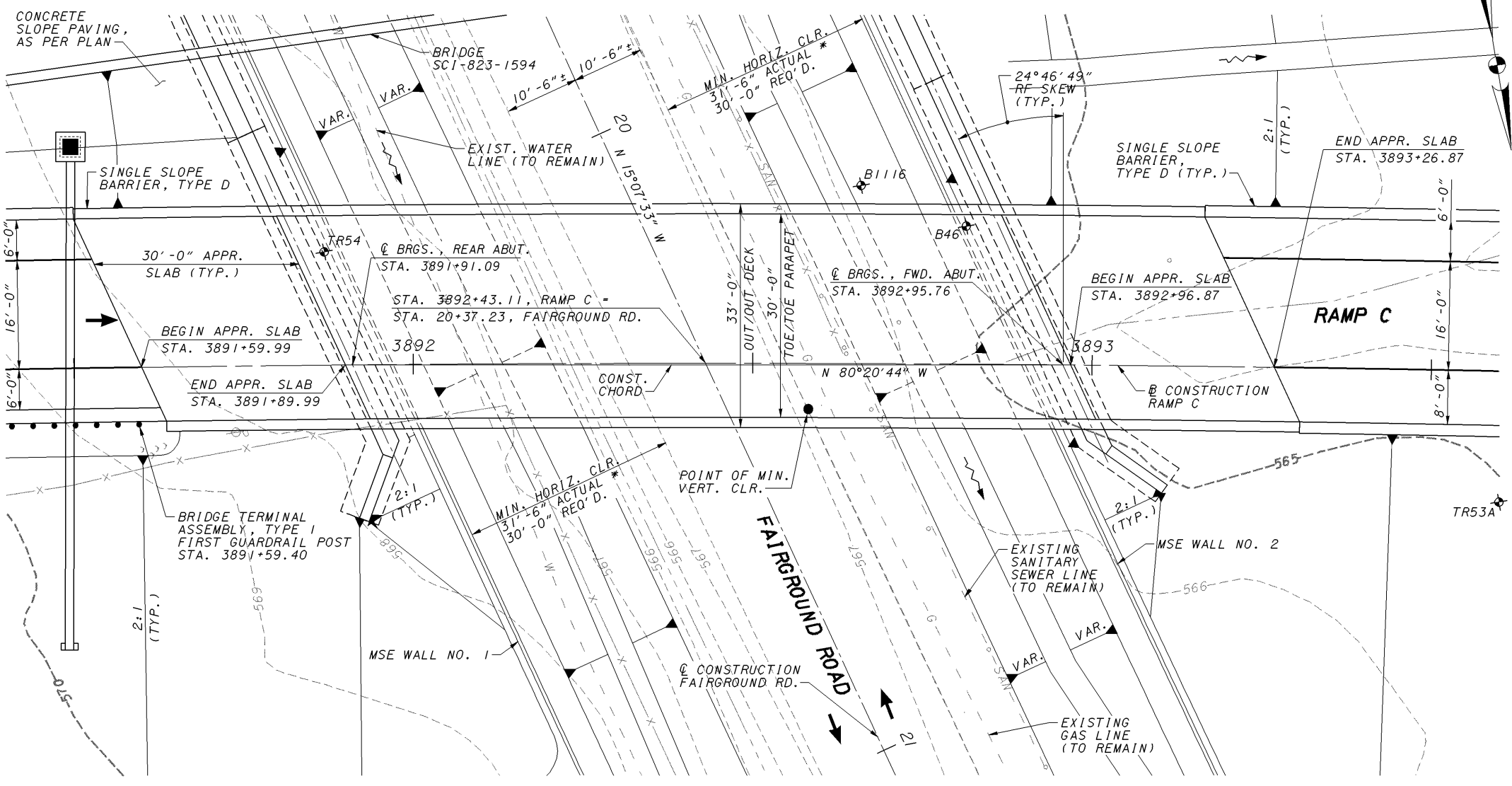
APPROACH SLABS: AS-1-81 (30'-0" LONG)

ALIGNMENT: HORIZONTALLY CURVED (@ RADIUS = 5729.58')

SUPERELEVATION: 0.029 FT/FT

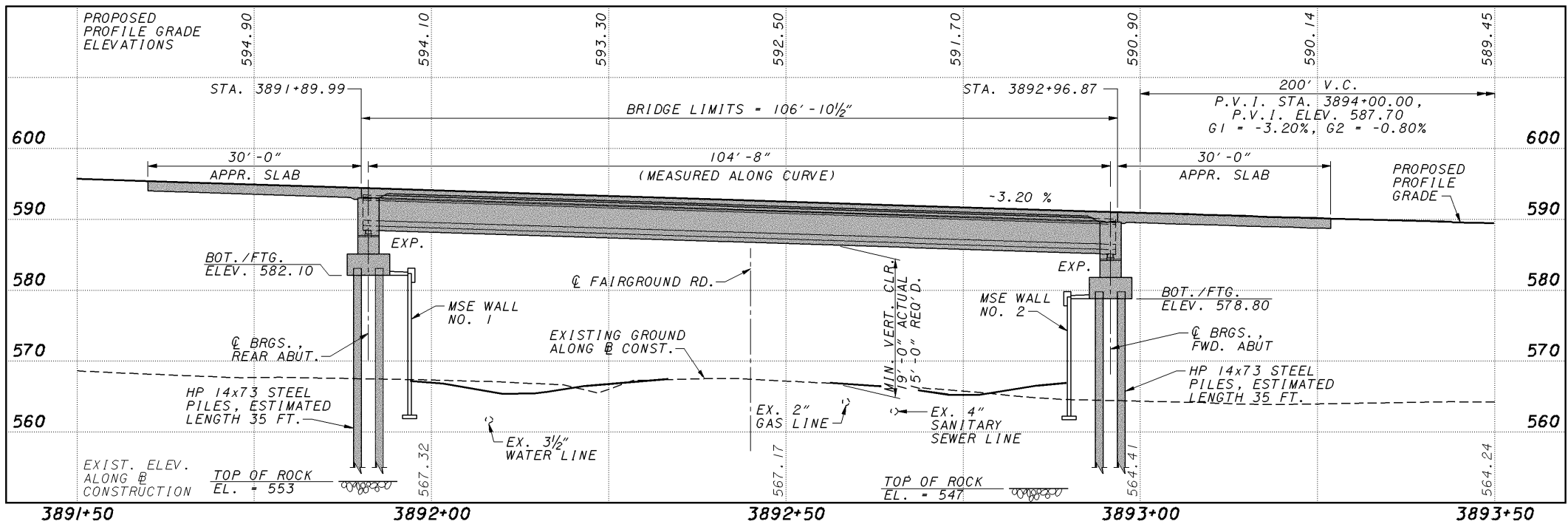
LATITUDE: N 38°53'33"

LONGITUDE: W 82°59'52"



PLAN

* 31'-6" PROVIDED TO PERMIT FUTURE 12'-0" LANE



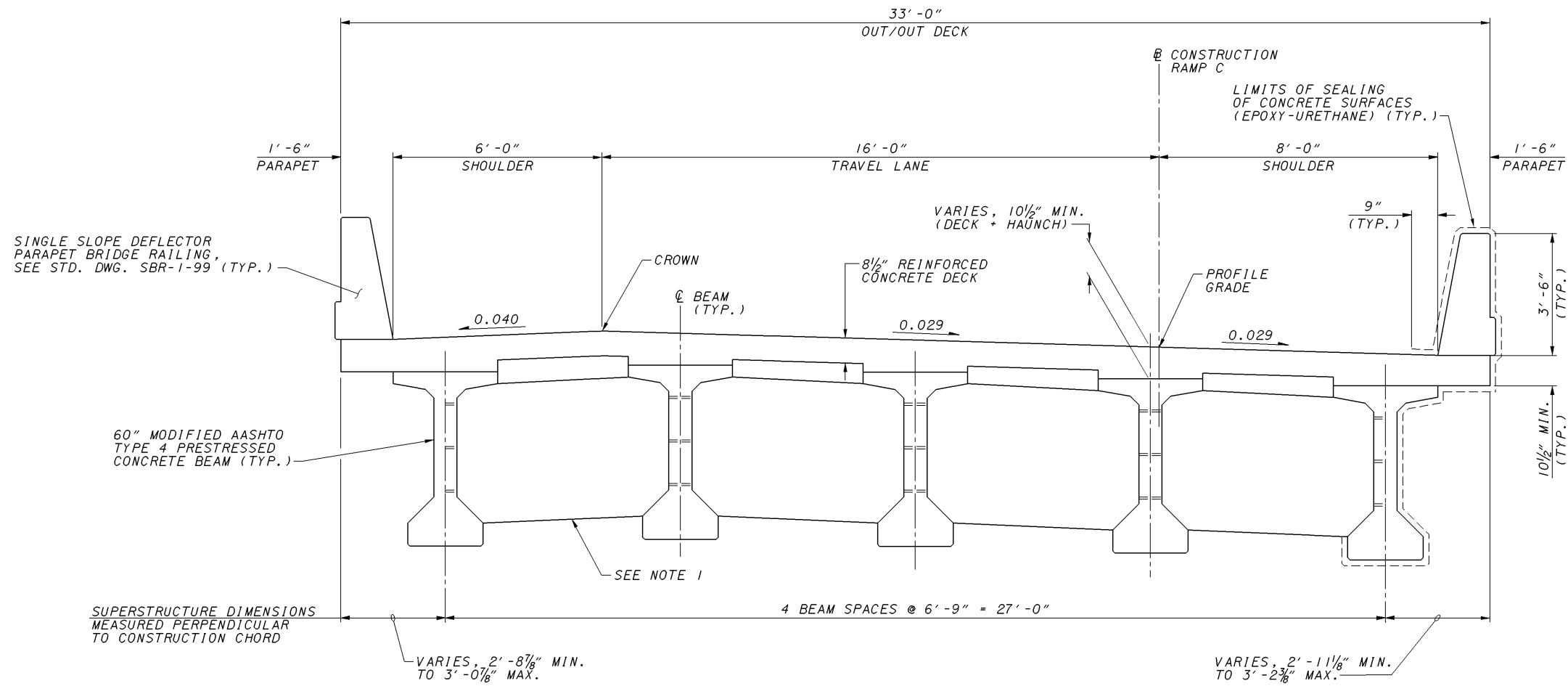
PROFILE ALONG @ CONSTRUCTION, RAMP C

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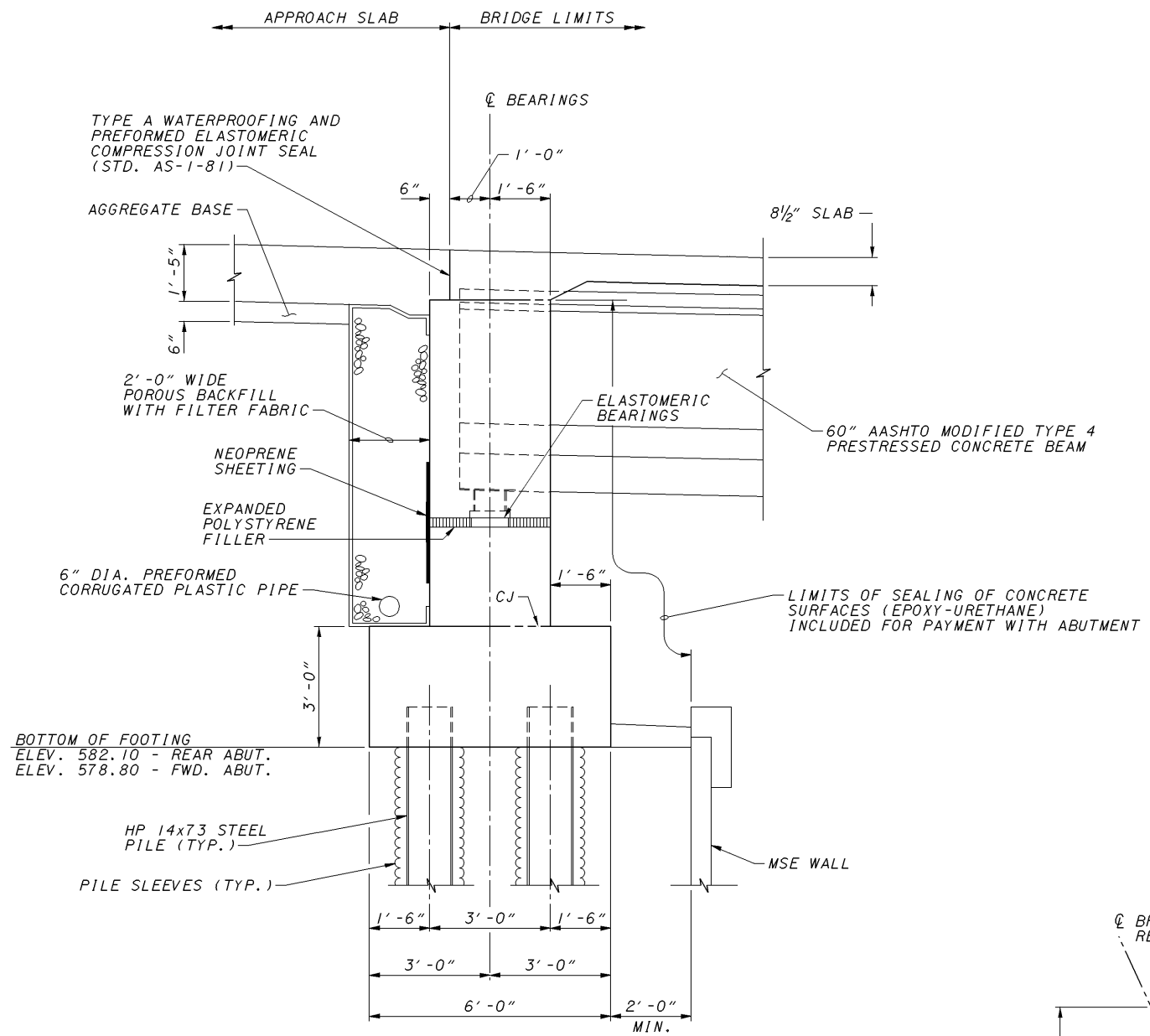
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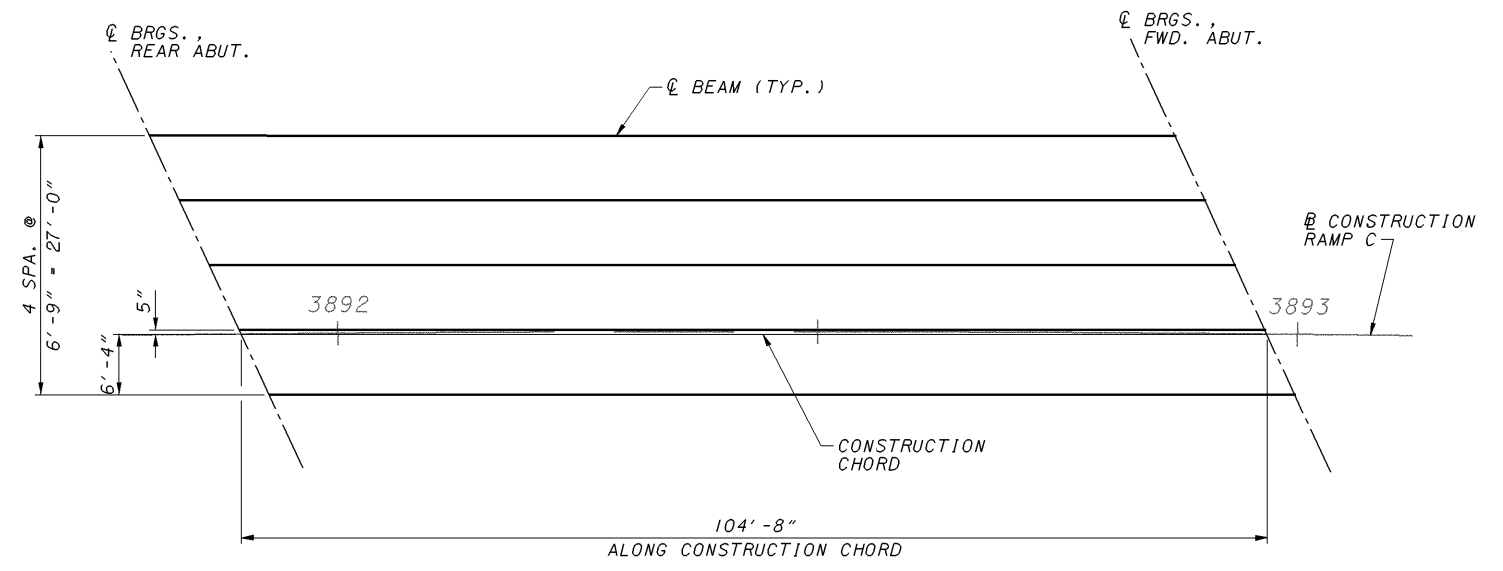
TYPICAL TRANSVERSE SECTION

NOTES:

- INTERMEDIATE DIAPHRAGMS MAY BE CAST-IN-PLACE CONCRETE OR GALVANIZED STEEL. FOR DETAILS OF BOTH DIAPHRAGM TYPES, SEE STANDARD CONSTRUCTION DRAWING PSID-1-99.



REAR AND FORWARD ABUTMENT SECTION



FRAMING PLAN

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DESIGNED	DGS	CHECKED	SKT
DRAWN	JBA	REVISED	
REVIEWED	SCJ	STRUCTURE FILE NUMBER	7306733
DATE	09/07		

BENCHMARKS	

DESIGN AGENCY
CH2MHILL
5775 Perimeter Drive, Suite 100
Dublin, Ohio 43017

DATE
11/07
REVIEWED
VKN
DRAWN
JBA
DESIGNED
DGS
CHECKED
SCJ

SC10TO COUNTY
STA. 2604+39.75
TO STA. 2609+07.25

BRIDGE NO. SCI-823-1598
RAMP B OVER NORFOLK SOUTHERN

BRIDGE NO. SCI-823-1598
RAMP B OVER NORFOLK SOUTHERN

BRIDGE NO. SCI-823-1598
RAMP B OVER NORFOLK SOUTHERN

BRIDGE NO. SCI-823-1598
RAMP B OVER NORFOLK SOUTHERN

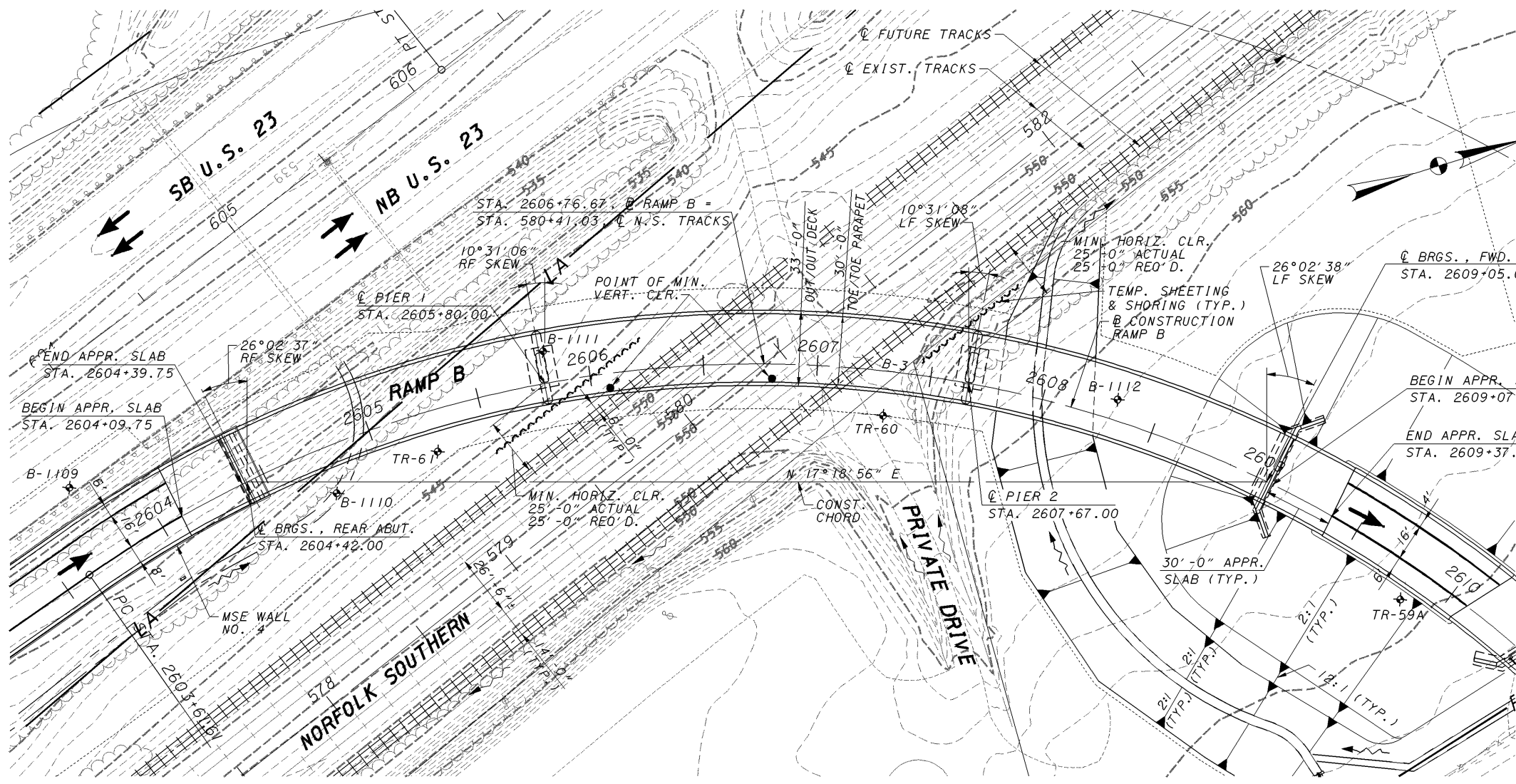
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RAMP B OVER NORFOLK SOUTHERN

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BRIDGE NO. SCI-823-1598
RAMP B OVER NORFOLK SOUTHERN



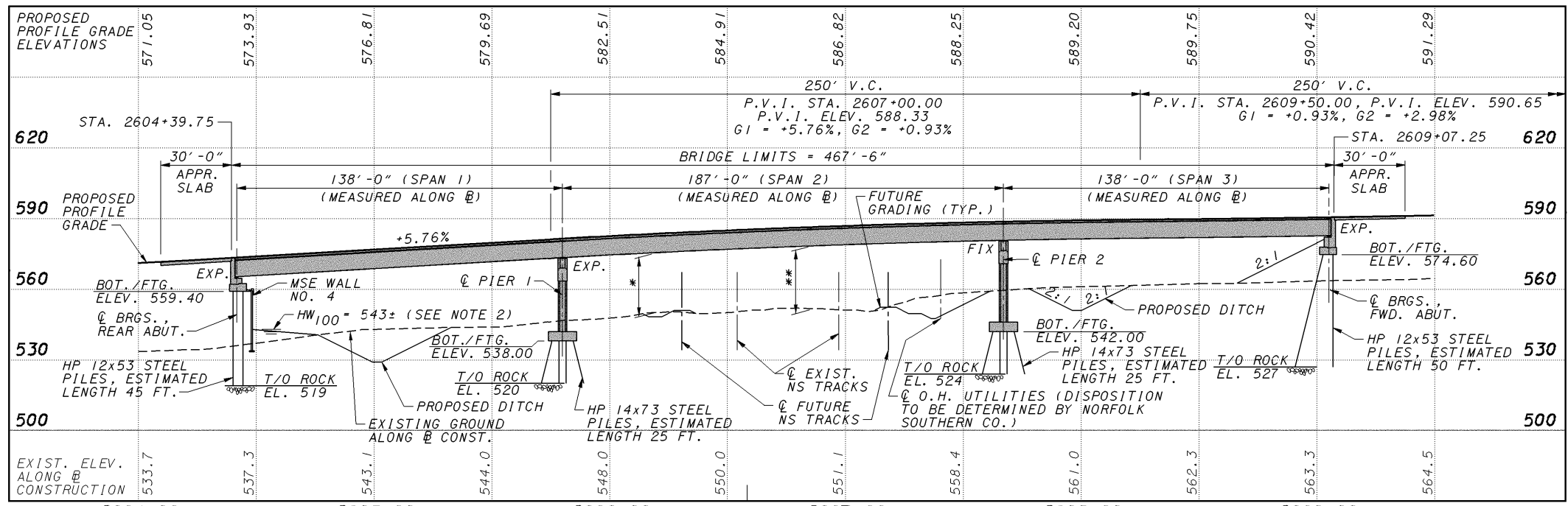
PLAN

CURVE B-3
P.I. STA. = 2609+99.07
 $\Delta = 102^\circ 45' 15''$ (RT.)
 $D_c = 11^\circ 15' 00''$
 $R = 509.30'$
 $T = 637.46'$
 $L = 913.37'$
 $E = 306.63'$
 $e_{max} = 0.071$

TRAFFIC DATA
CURRENT ADT (2010) = 2700
DESIGN ADT (2030) = 3600
DESIGN ADTT = 500

LEGEND
♦ DENOTES SOIL BORING LOCATION

- NOTES:**
- EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
 - HIGHWATER (HW) ELEV. 543± IS THE 100 YEAR SCIOTO RIVER BACKWATER ELEVATION AS DETERMINED BY FEMA.



PROFILE ALONG @ CONSTRUCTION, RAMP B

* MIN. VERT. CLR. 23'-7" ACTUAL 23'-3" REQ'D.
** MIN. VERT. CLR. 25'-9" ACTUAL 23'-2 1/8" REQ'D.

PROPOSED STRUCTURE

TYPE: THREE SPAN COMPOSITE CURVED STEEL PLATE GIRDERS (WEATHERED ASTM A709, GR 50W) WITH REINFORCED CONCRETE DECK ON JOINTED STUB ABUTMENT ON MSE WALL (REAR) AND JOINTED STUB ABUTMENT BEHIND 2:1 EMBANKMENT (FWD.) WITH T-TYPE PIERS

LENGTH OF SPAN: 138'-0", 187'-0", 138'-0", C-C BEARINGS, MEASURED ALONG @ CONSTRUCTION

ROADWAY: 30'-0" TOE/TOE PARAPETS

SIDEWALK: NONE

DESIGN LOADING: HS25 (CASE 11) AND THE ALTERNATE MILITARY LOADING, FWS = 60 LB/FT²

SKREW: 26°02'37" RF (REAR ABUTMENT), 10°31'06" RF (PIER 1), 10°31'08" LF (PIER 2), 26°02'38" LF (FORWARD ABUTMENT), MEASURED FROM THE NORMAL TO THE CONSTRUCTION CHORD

WEARING SURFACE: MONOLITHIC CONCRETE

APPROACH SLABS: AS-1-81 (30'-0" LONG)

ALIGNMENT: HORIZONTALLY CURVED (@ RADIUS= 509.30 FT.)

SUPERELEVATION: 0.071 FT/FT

LATITUDE: N 38°53'28"

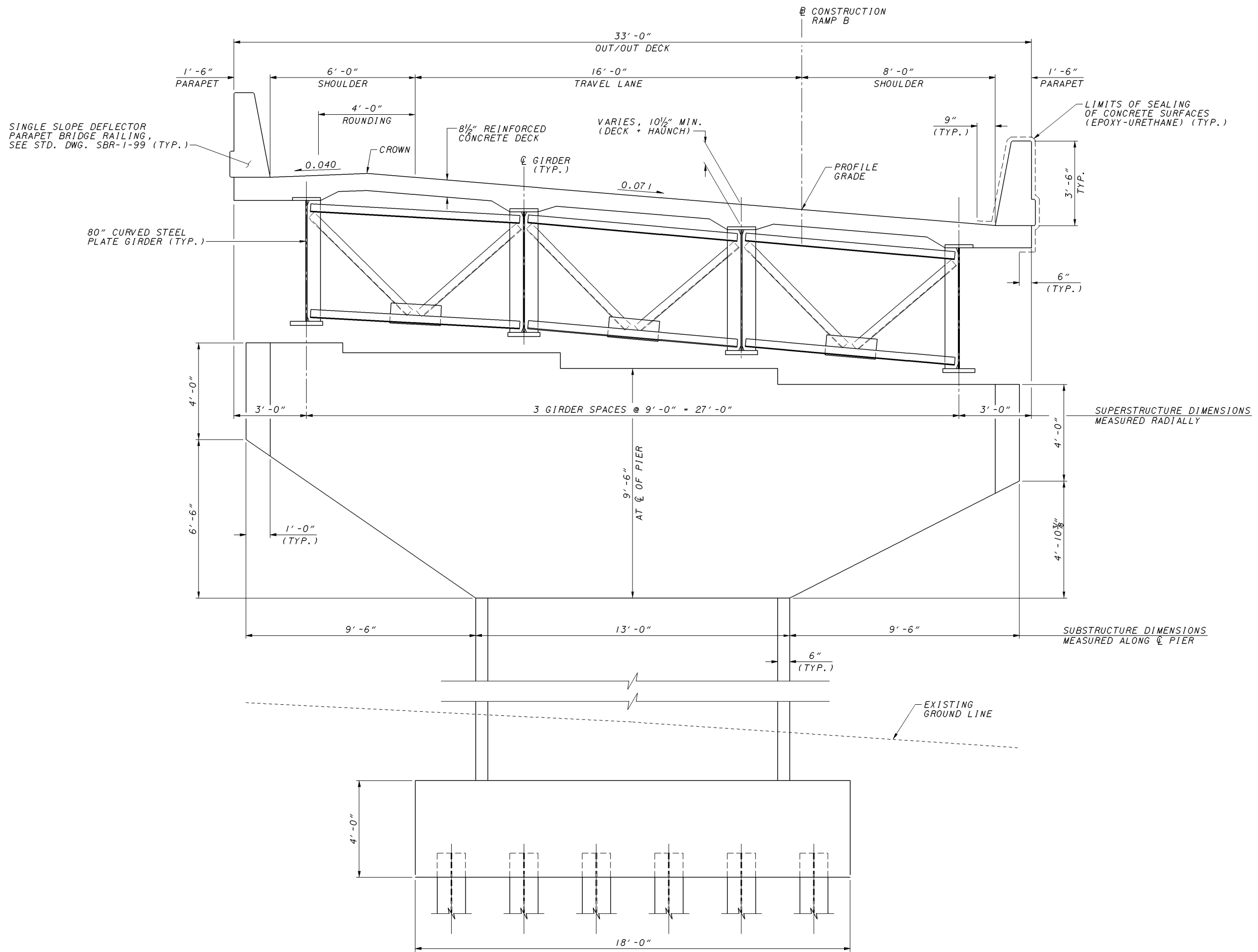
LONGITUDE: W 82°59'54"

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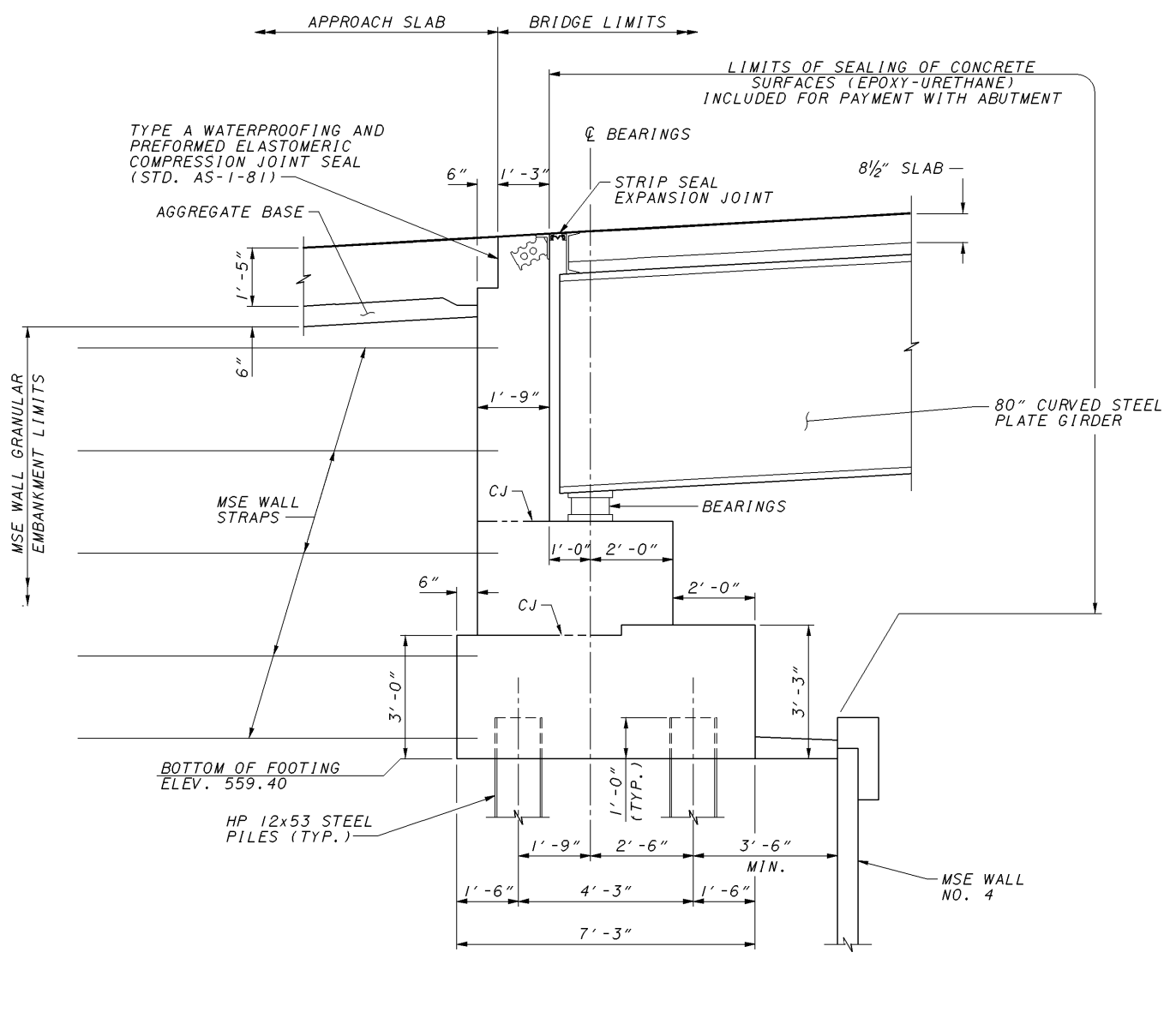
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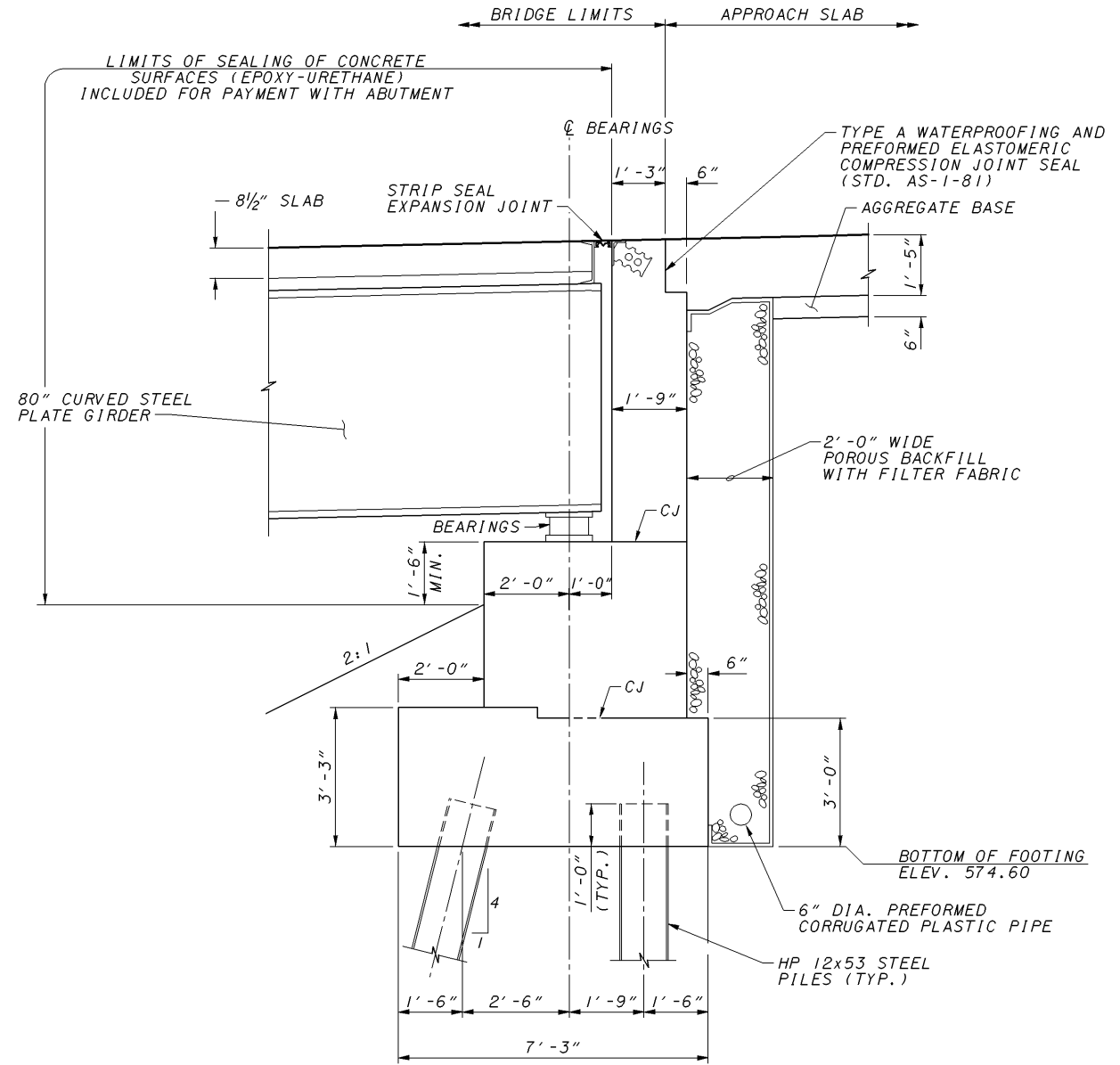


TYPICAL TRANSVERSE SECTION

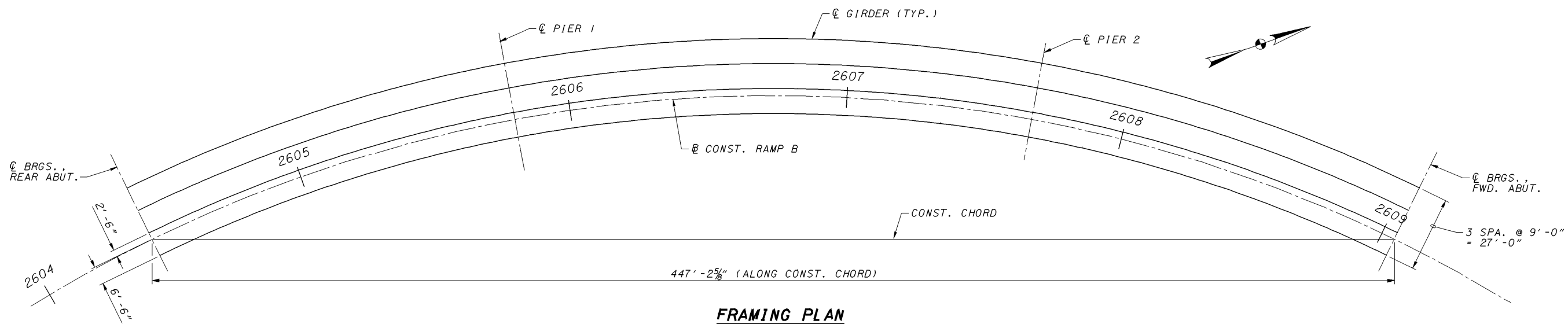
DESIGNED	DGS	CHECKED	SCJ
DRAWN	JBA	REVISED	
REVIEWED	VKN	STRUCTURE FILE NUMBER	7306776
DATE	11/07		



REAR ABUTMENT SECTION



FORWARD ABUTMENT SECTION



FRAMING PLAN

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DESIGN AGENCY
CH2MHILL
6775 Perimeter Drive, Suite 190
Dublin, Ohio 43017

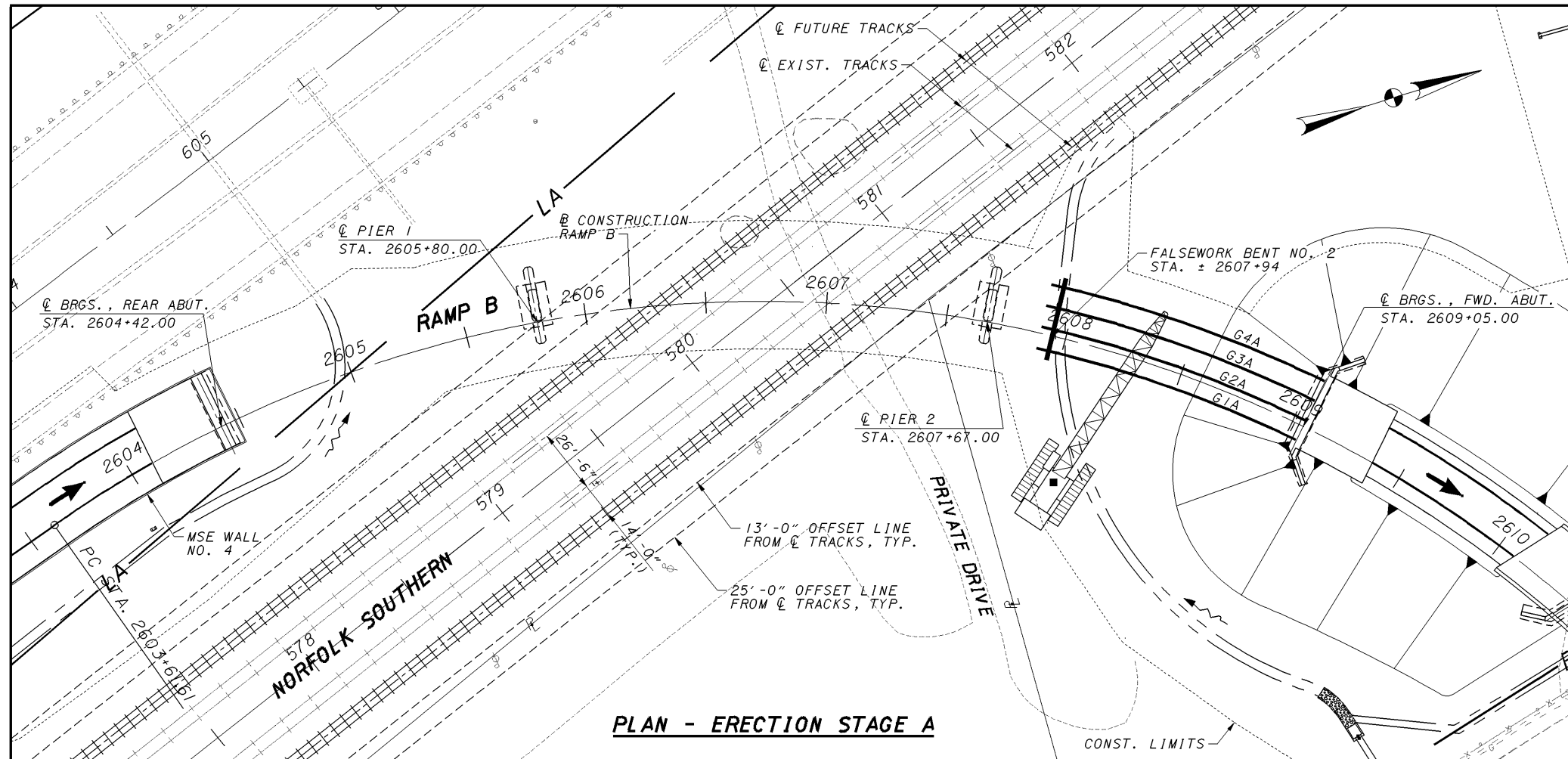
DATE	11/07
REVIEWED	VKN
STRUCTURE FILE NUMBER	7306776
DRAWN	JBA
DESIGNED	DGS
CHECKED	SCJ
REVISED	

ABUTMENT SECTION AND FRAMING PLAN
BRIDGE NO. SCI-823-1598
RAMP B OVER NORFOLK SOUTHERN

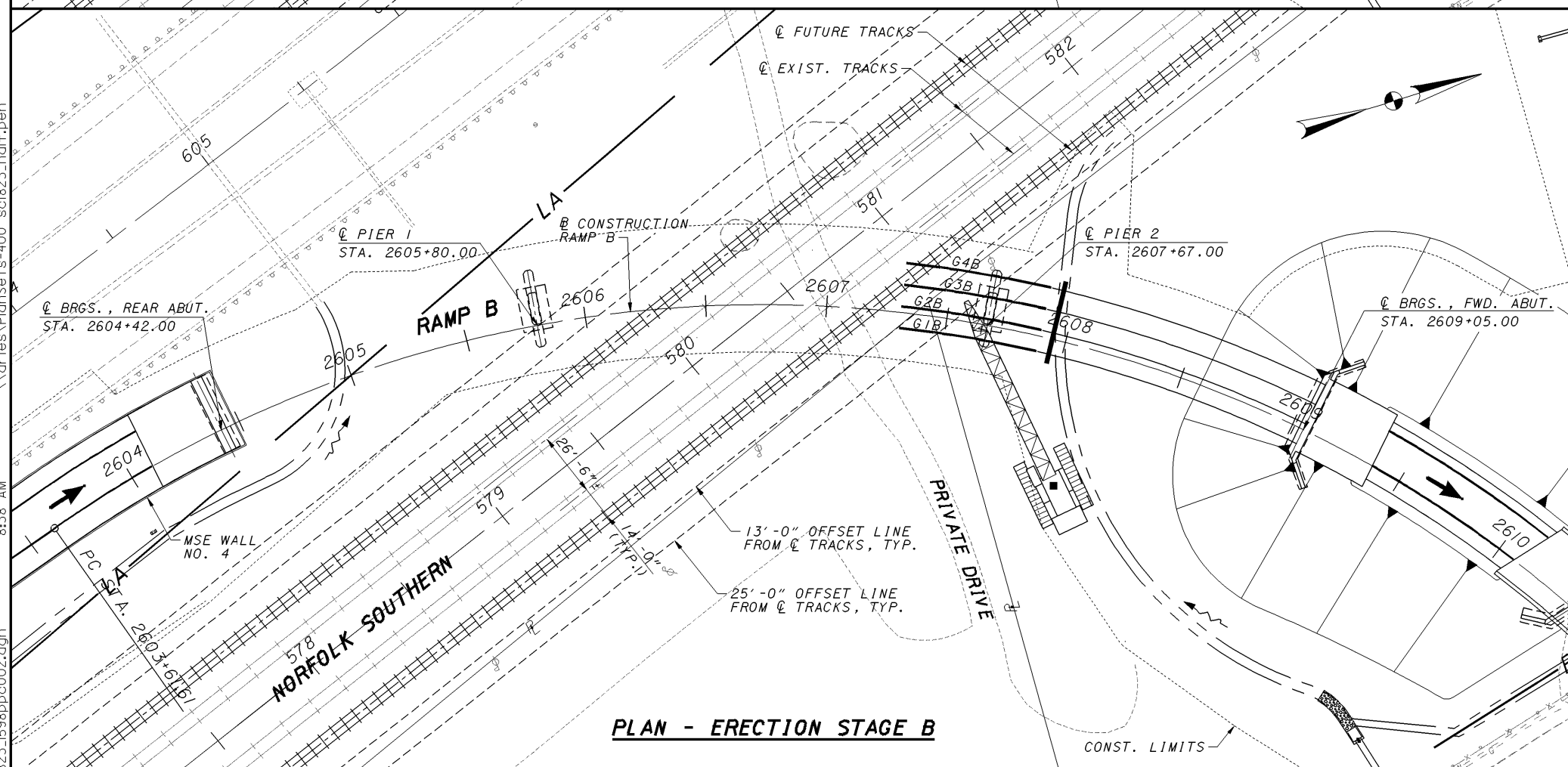
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PID 79977

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835



PLAN - ERECTION STAGE A



PLAN - ERECTION STAGE B

GENERAL NOTES:

1. THE FOLLOWING ASSUMPTIONS WERE MADE IN PREPARATION OF THE PRELIMINARY ERECTION PLAN:
 - A. THE TWO FUTURE NORFOLK SOUTHERN TRACKS WILL HAVE BEEN CONSTRUCTED BY THE TIME STEEL ERECTION OCCURS;
 - B. THE EXISTING RAILROAD COMMUNICATION LINES WILL LIKELY BE RELOCATED IF THE TWO ADDITIONAL TRACKS ARE CONSTRUCTED AND WERE NOT CONSIDERED IN DEVELOPING THE PRELIMINARY ERECTION PROCEDURE.
2. PER NORFOLK SOUTHERN PUBLICATION "OVERHEAD GRADE SEPERATION DESIGN CRITERIA"
 - A. MINIMUM TEMPORARY HORIZONTAL CLEARANCE IS 13'-0".
 - B. PERMANENT HORIZONTAL CLEARANCE IS 25'-0".
 - C. CRANES MUST BE ADEQUATE FOR 150% THE WEIGHT OF THE PICK.
3. A MANITOWOC MODEL 999 CRANE (275 TON) WAS ASSUMED FOR THE DEVELOPMENT OF THIS PLAN. ERECTION OF THE GIRDERS OVER THE NORFOLK SOUTHERN TRACKS (ERECTION STAGE E) CONTROLS THE CAPACITY OF THE CRANE SELECTED. STAGES A, B, C, AND D COULD UTILIZE A SMALLER CRANE AT THE ERECTORS DISCRETION.
4. CROSS FRAMES/LATERAL BRACING ARE NOT SHOWN ON THE DRAWINGS, BUT IT IS ASSUMED THAT THEY WILL BE INSTALLED AS ERECTION PROCEEDS TO BRACE THE GIRDERS.
5. SITE PREPARATION NECESSARY FOR THE CRANE AND TO PROVIDE ACCESS FOR MATERIALS ARE NOT SHOWN ON THE DRAWINGS.
6. THE ERECTION SEQUENCE SHOWN ON THE DRAWINGS IS NOT INTENDED FOR CONSTRUCTION. ACTUAL ERECTION METHODS AND PROCEDURES TO BE DETERMINED BY THE CONTRACTOR.
7. THE LOCATION OF FALSEWORK BENTS IS SUBJECT TO CHANGE BASED ON FINAL DESIGN LOCATION OF FIELD SPLICE POINTS.

ERECTION NOTES - STAGE A:

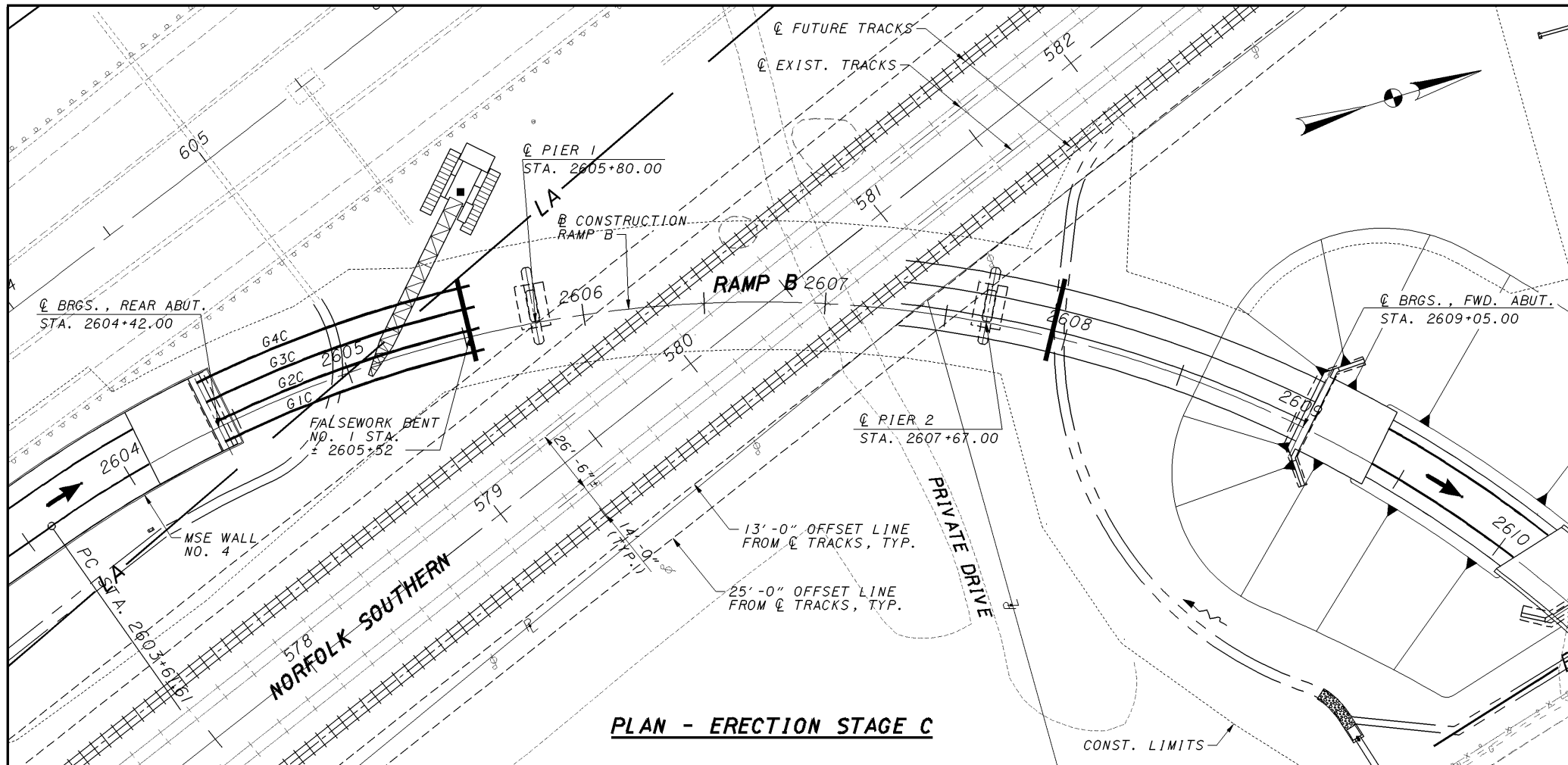
1. DUE TO THE LOAD CAPACITY OF THE CRANE, IT MAY BE POSITIONED AT ALMOST ANY POSITION ON THE EAST SIDE OF THE BRIDGE TO ERECT STAGE A GIRDERS.
2. THE LENGTH OF GIRDER G4A IS ±120 FEET WITH AN ESTIMATED MAXIMUM LIFTING WEIGHT OF 50,000 POUNDS. THE OTHER GIRDERS ARE SHORTER AND LIGHTER.
3. THE ERECTION PROCEDURE ASSUMES THAT EACH GIRDER WILL BE ERECTED SEPARATELY. HOWEVER, DUE TO THE CAPACITY OF THE CRANE, THE ERECTOR COULD INSTALL CROSS-FRAMES AND BOLT TWO GIRDERS TOGETHER ON THE GROUND AND LIFT THEM INTO PLACE AS A UNIT.
4. BEARINGS TO BE WELDED TO GIRDERS AS THE GIRDERS ARE SET.
5. THE SUGGESTED ERECTION SEQUENCE IS:
 - A. DESIGN AND CONSTRUCT FALSEWORK BENT NO. 2;
 - B. SET BEARINGS AT FORWARD ABUTMENT;
 - C. ERECT GIRDERS AND CROSS-FRAMES.

ERECTION NOTES - STAGE B:

1. DUE TO THE LOAD CAPACITY OF THE CRANE, IT MAY BE POSITIONED AT ALMOST ANY POSITION ON THE EAST SIDE OF THE BRIDGE TO ERECT STAGE B GIRDERS.
2. THE LENGTH OF GIRDER G4B IS ±61 FEET WITH AN ESTIMATED MAXIMUM LIFTING WEIGHT OF 35,000 POUNDS. THE OTHER GIRDERS ARE SHORTER AND LIGHTER.
3. THE ERECTION PROCEDURE ASSUMES THAT EACH GIRDER WILL BE ERECTED SEPARATELY. HOWEVER, DUE TO THE CAPACITY OF THE CRANE, THE ERECTOR COULD INSTALL CROSS-FRAMES AND BOLT TWO GIRDERS TOGETHER ON THE GROUND AND LIFT THEM INTO PLACE AS A UNIT.
4. BEARINGS TO BE WELDED TO GIRDERS AS THE GIRDERS ARE SET.
5. MINIMUM 50% OF FIELD SPLICE HOLES TO BE FILLED WITH BOLTS. NUMBER OF HOLES TO BE FILLED TO BE DETERMINED BY CONTRACTOR.
6. THE SUGGESTED ERECTION SEQUENCE IS:
 - A. ERECT BEARINGS ON PIER NO. 2;
 - B. ERECT GIRDERS AND CROSS-FRAMES.

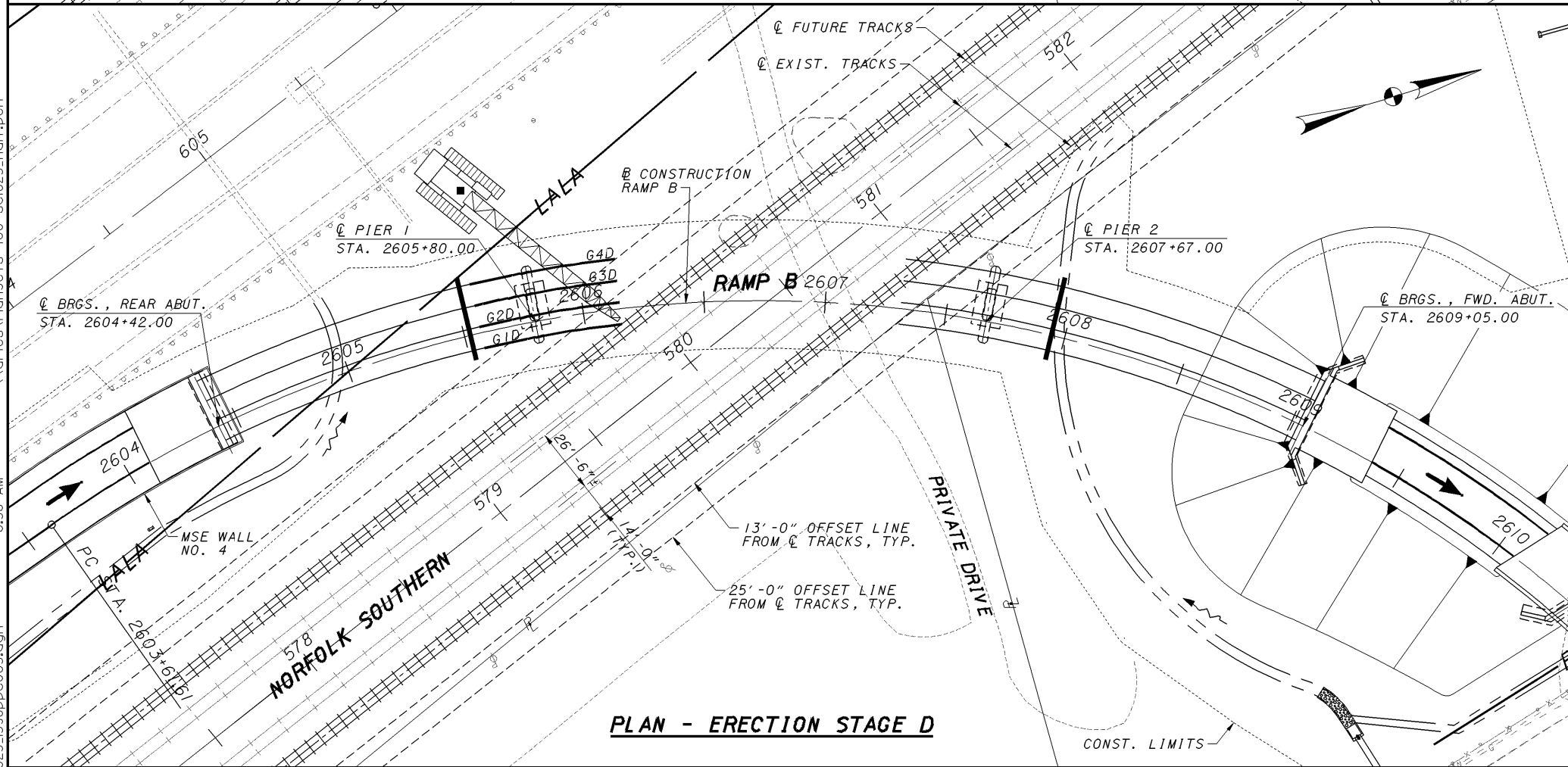
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DATE	11/07
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STRUCTURE FILE NUMBER	7306776



ERECTION NOTES - STAGE C:

1. DUE TO THE LOAD CAPACITY OF THE CRANE, IT MAY BE POSITIONED AT ALMOST ANY POSITION ON THE WEST SIDE OF THE BRIDGE TO ERECT STAGE C GIRDERS.
2. THE LENGTH OF GIRDER G4C IS ±120 FEET WITH AN ESTIMATED MAXIMUM LIFTING WEIGHT OF 50,000 POUNDS. THE OTHER GIRDERS ARE SHORTER AND LIGHTER.
3. THE ERECTION PROCEDURE ASSUMES THAT EACH GIRDER WILL BE ERECTED SEPARATELY. HOWEVER, DUE TO THE CAPACITY OF THE CRANE, THE ERECTOR COULD INSTALL CROSS-FRAMES AND BOLT TWO GIRDERS TOGETHER ON THE GROUND AND LIFT THEM INTO PLACE AS A UNIT.
4. BEARINGS TO BE WELDED TO GIRDERS AS THE GIRDERS ARE SET.
5. THE SUGGESTED ERECTION SEQUENCE IS:
 - A. DESIGN AND CONSTRUCT FALSEWORK BENT NO. 1;
 - B. SET BEARINGS AT REAR ABUTMENT;
 - C. ERECT GIRDERS AND CROSS-FRAMES.

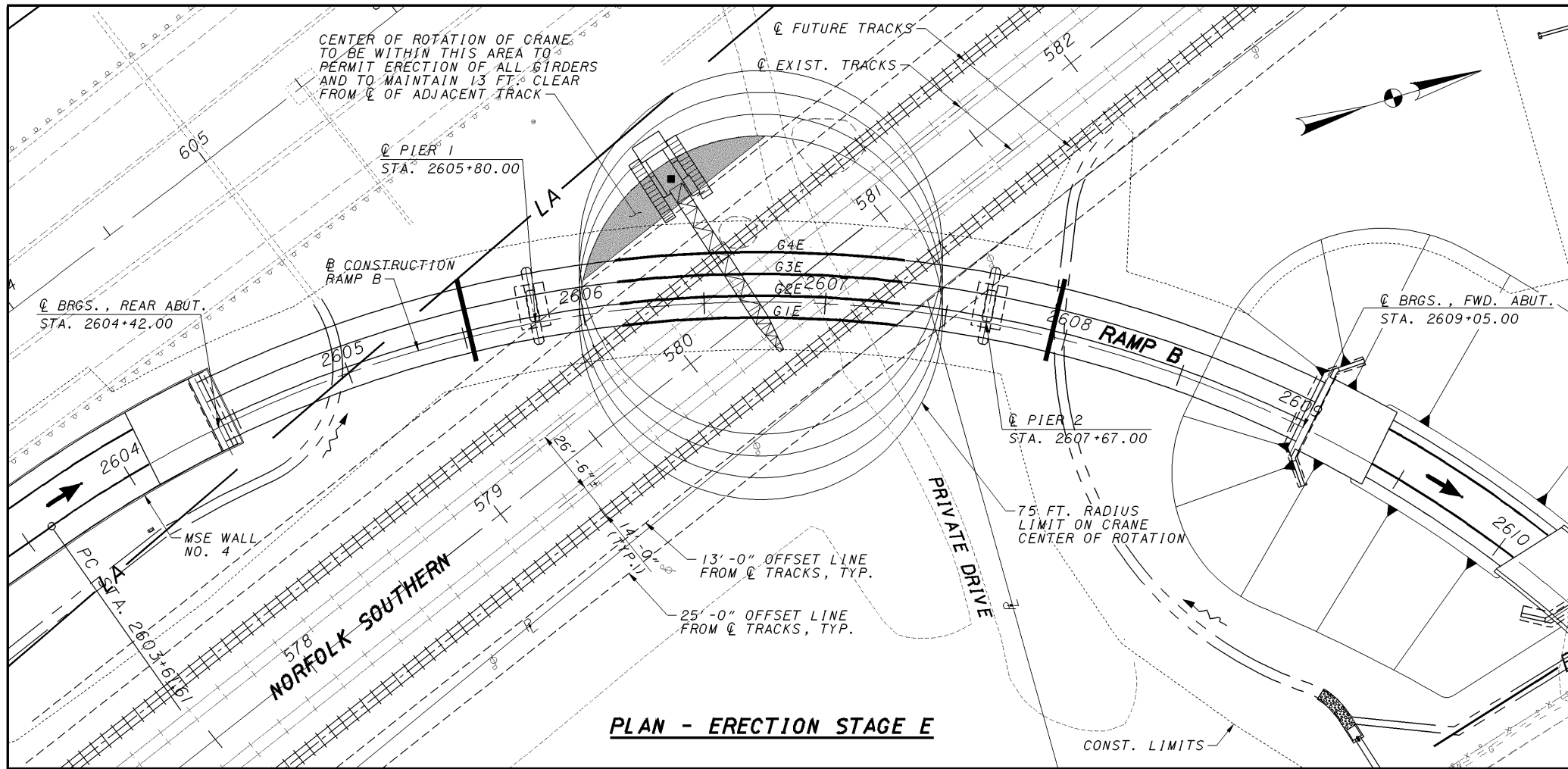


ERECTION NOTES - STAGE D:

1. DUE TO THE LOAD CAPACITY OF THE CRANE, IT MAY BE POSITIONED AT ALMOST ANY POSITION ON THE WEST SIDE OF THE BRIDGE TO ERECT STAGE D GIRDERS.
2. THE LENGTH OF GIRDER G4D IS ±61 FEET WITH AN ESTIMATED MAXIMUM LIFTING WEIGHT OF 35,000 POUNDS. THE OTHER GIRDERS ARE SHORTER AND LIGHTER.
3. THE ERECTION PROCEDURE ASSUMES THAT EACH GIRDER WILL BE ERECTED SEPARATELY. HOWEVER, DUE TO THE CAPACITY OF THE CRANE, THE ERECTOR COULD INSTALL CROSS-FRAMES AND BOLT TWO GIRDERS TOGETHER ON THE GROUND AND LIFT THEM INTO PLACE AS A UNIT.
4. BEARINGS TO BE WELDED TO GIRDERS AS THE GIRDERS ARE SET.
5. MINIMUM 50% OF FIELD SPLICE HOLES TO BE FILLED WITH BOLTS. NUMBER OF HOLES TO BE FILLED TO BE DETERMINED BY CONTRACTOR.
6. THE SUGGESTED ERECTION SEQUENCE IS:
 - A. ERECT BEARINGS ON PIER NO. 1;
 - B. ERECT GIRDERS AND CROSS-FRAMES.

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CH2MHILL DESIGN AGENCY 5775 Perimeter Drive, Suite 180 Dublin, Ohio 43017	DATE 11/07	REVIEWED VKN	STRUCTURE FILE NUMBER 7306776	DRAWN JBA	REVISIONS REVISED	DESIGNED DGS	CHECKED SCJ
ERECTION SEQUENCE PLAN BRIDGE NO. SCI-823-1598 RAMP B OVER NORFOLK SOUTHERN							
SCI-823-10.13 PID 79977							
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837							



PLAN - ERECTION STAGE E

ERECTION NOTES - STAGE E:

1. A REVIEW OF THE HEAVY LIFT DATA TABLES FOR A MANITOWOC MODEL 999 CRANE INDICATES THAT IT CAN LIFT 75,000 POUNDS (1.5 TIMES ACTUAL WEIGHT) AT A 75' OPERATING RADIUS. SUFFICIENT, BUT LIMITED, SPACE IS AVAILABLE FOR THE LIFT WHILE STILL MAINTAINING A MINIMUM 13' CLEAR ZONE FROM THE CENTERLINE OF THE ADJACENT PROPOSED NORFOLK SOUTHERN TRACK.
2. THE LENGTH OF GIRDER G4E IS ±120 FEET WITH AN ESTIMATED MAXIMUM LIFTING WEIGHT OF 50,000 POUNDS. THE OTHER GIRDERS ARE SHORTER AND LIGHTER.
3. THE ERECTION PROCEDURE ASSUMES THAT EACH GIRDER WILL BE ERECTED SEPARATELY.
4. MINIMUM 50% OF FIELD SPLICE HOLES TO BE FILLED WITH BOLTS. NUMBER OF HOLES TO BE FILLED TO BE DETERMINED BY CONTRACTOR.
5. THE SUGGESTED ERECTION SEQUENCE IS:
 - A. ERECT GIRDERS AND CROSS-FRAMES AND COMPLETE ALL FIELD SPLICES;
 - B. REMOVE FALSEWORK BENTS.

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Dublin, Ohio 43017

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DESIGNED	DGS
CHECKED	SCJ

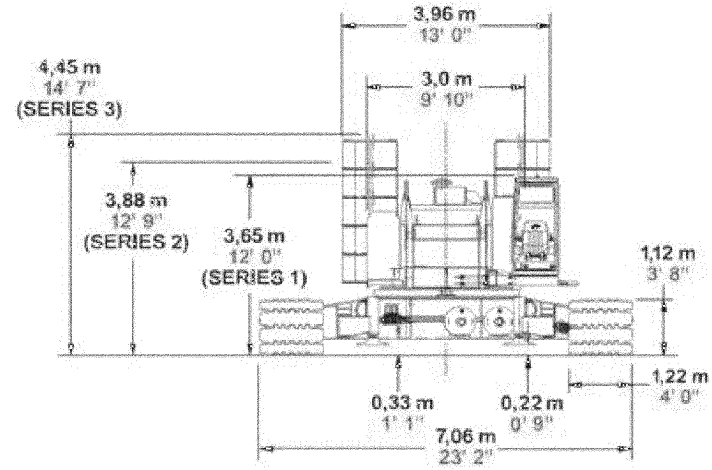
ERECTION SEQUENCE PLAN
BRIDGE NO. SCI-823-1598
RAMP B OVER NORFOLK SOUTHERN

SCI-823-10.13
PID 79977

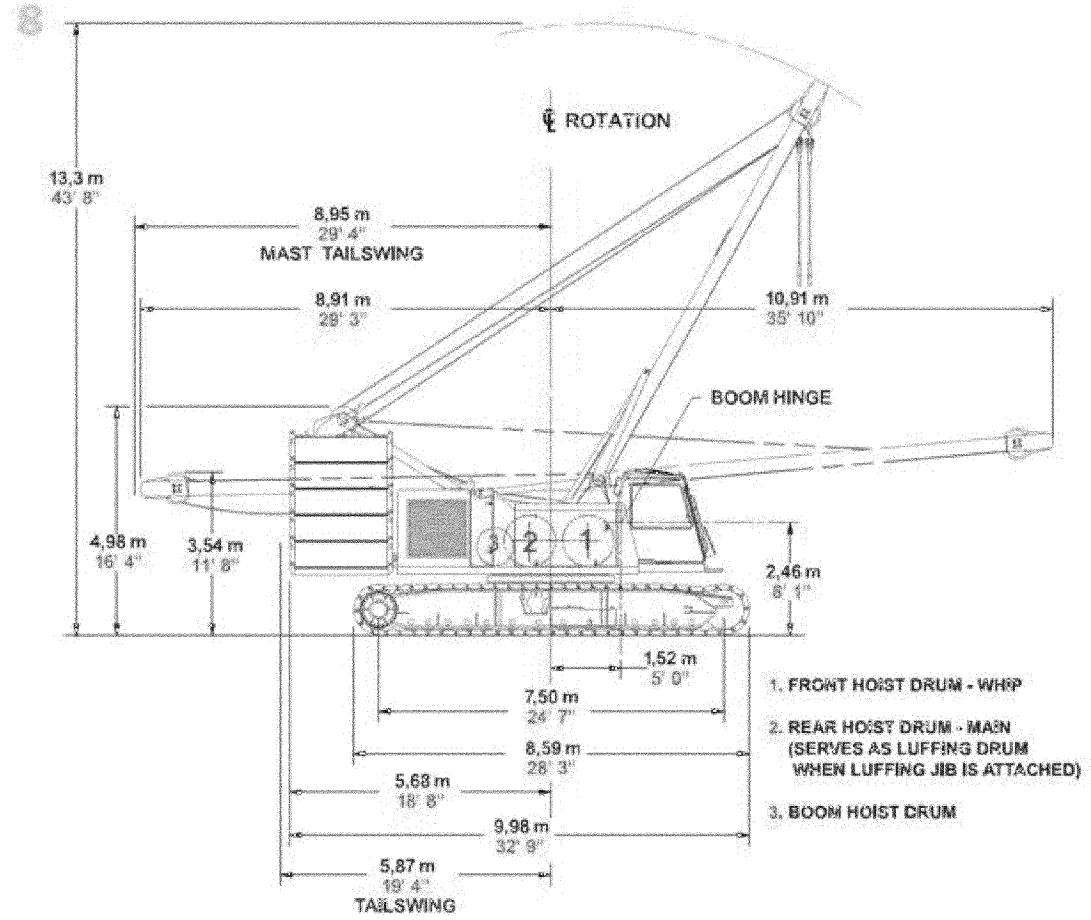
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outline dimensions



outline dimensions



heavy-lift boom load chart

Liftcrane Boom Capacities - Series 3
Boom No. 82 or No. 22EL
 99 605 kg (219,600 lb) Upperworks Counterweight 36 288 kg (80,000 lb) Carbody Counterweight
 360° Rating kg (lb) x 1 000

Boom m (ft)	21,3 (70)	27,4 (90)	33,5 (110)	39,6 (130)	45,7 (150)	51,8 (170)	57,9 (190)	64,0 (210)	70,1 (230)	76,2 (250)	82,3 (270)	89,4 (290)
4,6 (15)	250,0* (551,0)*											
5,0 (17)	219,9 (482,5)											
5,0 (20)	183,0 (397,5)	180,7 (396,4)										
8,0 (26)	139,0 (309,3)	126,5 (279,5)	132,2 (295,0)	130,1 (285,5)								
10,0 (32)	111,5 (252,2)	110,8 (250,5)	110,5 (249,9)	110,6 (249,9)	100,8 (224,1)	88,6 (196,8)						
11,0 (36)	100,2 (221,8)	100,3 (222,1)	100,3 (221,9)	99,8 (221,0)	97,6 (215,7)	86,3 (190,5)	76,7 (169,2)	63,1 (139,3)				
12,0 (40)	88,2 (193,3)	88,3 (190,4)	88,3 (190,4)	88,3 (190,0)	88,3 (190,7)	85,4 (187,0)	74,9 (164,5)	62,9 (138,4)	51,8 (114,1)			
14,0 (46)	70,9 (156,1)	70,9 (156,1)	70,9 (156,0)	70,9 (155,1)	70,5 (155,1)	70,3 (154,6)	67,9 (149,6)	62,1 (137,1)	51,2 (113,0)	42,6 (94,1)		35,3 (77,9)
15,0 (50)	64,4 (139,0)	64,4 (139,0)	64,3 (138,8)	64,3 (138,3)	63,8 (137,9)	63,6 (137,3)	63,5 (136,7)	60,7 (132,5)	50,9 (112,2)	42,3 (93,3)		35,0 (77,2)
18,0 (60)	50,1 (109,2)	50,1 (109,0)	49,9 (107,8)	49,6 (107,2)	49,5 (106,8)	49,1 (106,1)	48,9 (105,5)	48,5 (104,7)	48,2 (104,7)	41,5 (91,4)		34,3 (75,5)
24,0 (80)	33,6 (72,6)	33,6 (72,6)	33,5 (72,3)	33,2 (71,7)	33,0 (71,2)	32,6 (70,4)	32,3 (69,8)	31,9 (69,9)	31,9 (69,9)	31,5 (69,0)		31,3 (67,2)
30,0 (100)		24,4 (52,7)	24,3 (52,5)	24,1 (51,9)	23,8 (51,4)	23,5 (50,8)	23,1 (49,9)	22,7 (49,0)	22,7 (49,0)	22,2 (48,0)		21,9 (47,2)
34,0 (110)			20,2 (45,0)	19,9 (44,5)	19,7 (44,4)	19,3 (43,6)	19,0 (42,9)	18,8 (42,0)	18,6 (42,0)	18,1 (41,0)		17,7 (40,2)
36,0 (120)			18,5 (39,8)	18,2 (39,7)	18,0 (39,7)	17,6 (37,9)	17,3 (37,2)	16,9 (36,3)	16,8 (36,2)	16,4 (35,3)		16,0 (34,5)
40,0 (130)				15,3 (34,5)	15,1 (34,0)	14,8 (33,2)	14,4 (32,4)	14,0 (31,6)	14,0 (31,6)	13,5 (30,5)		13,2 (29,7)
42,0 (140)				13,9 (29,3)	13,9 (29,9)	13,5 (29,1)	13,2 (28,4)	12,8 (27,6)	12,8 (27,4)	12,3 (26,5)		12,0 (25,6)
46,0 (150)					11,7 (22,4)	11,5 (22,4)	11,1 (24,0)	10,7 (24,0)	10,7 (24,0)	10,2 (23,0)		9,9 (22,1)
50,0 (160)						8,7 (21,4)	8,7 (22,6)	8,4 (21,0)	8,9 (20,9)	8,5 (20,0)		8,1 (19,1)
52,0 (170)							8,5 (19,1)	8,6 (19,3)	8,2 (18,4)	8,2 (18,3)		7,4 (16,5)
58,0 (190)								5,8 (13,0)	6,1 (13,6)	6,2 (13,9)		5,4 (12,1)
64,0 (210)									3,4 (7,6)	4,1 (9,1)		3,8 (8,5)
70,0 (230)										1,9 (4,1)		1,8 (4,0)

*NOTE: Special equipment required.

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
 NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

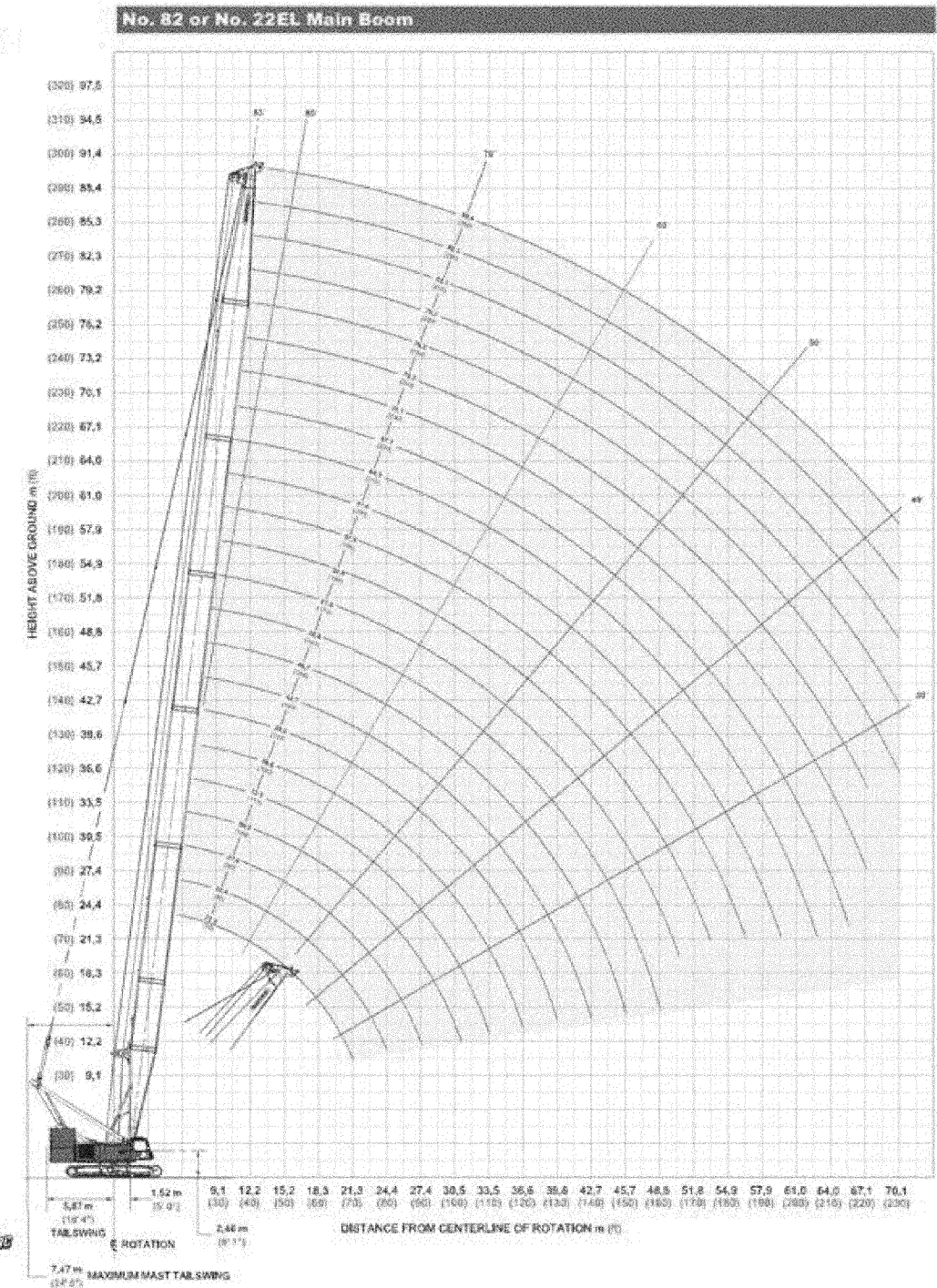
Fixed Jib No. 134 on Heavy-Lift Boom No. 82 or No. 22EL

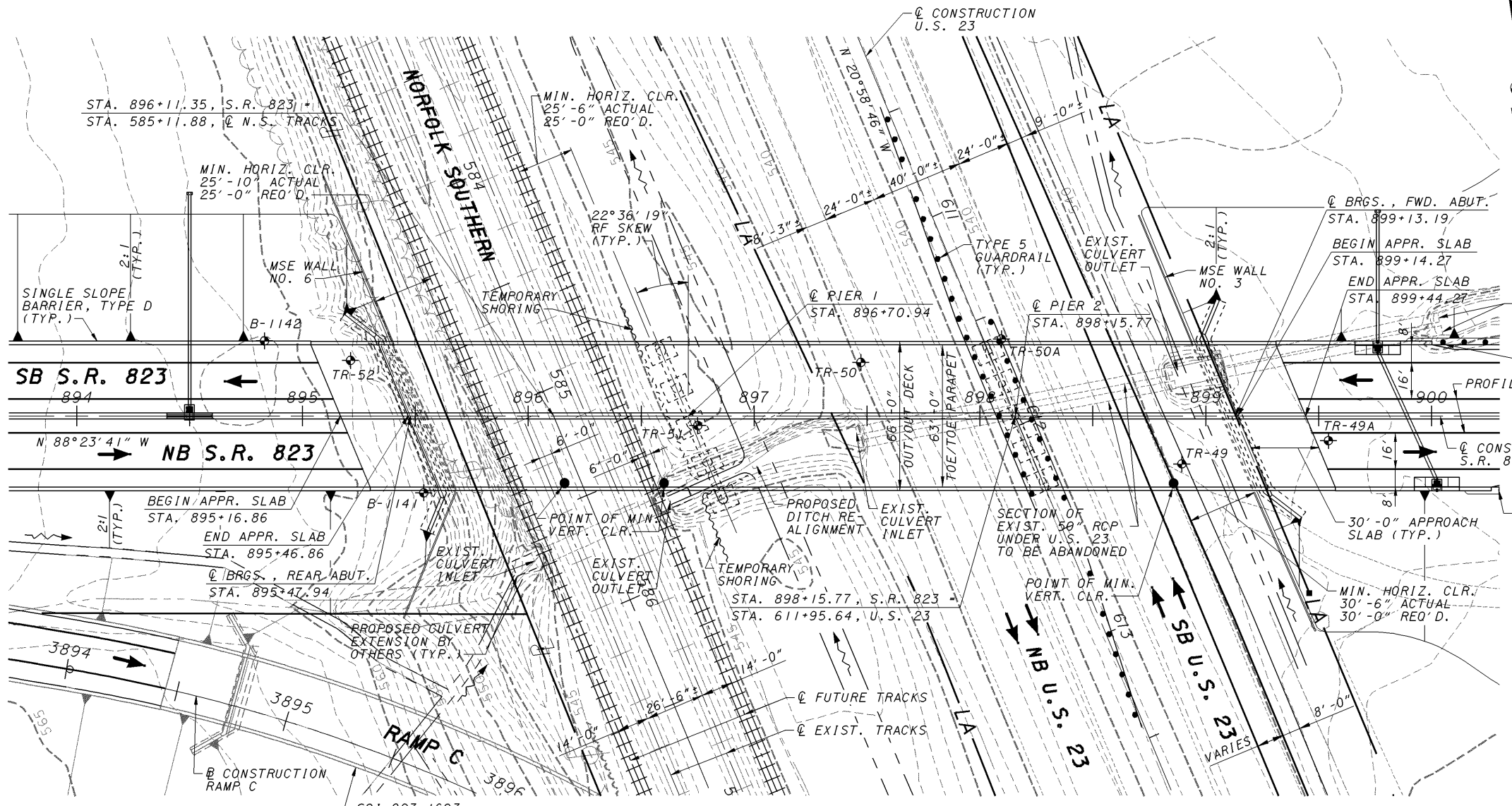
Defect from Capacity when fixed jib is attached kg (lb)

Jib Length m (ft)	Defect from Capacity kg (lb)
9,1 (30)	1 220 (2,700)
12,2 (40)	1 590 (3,500)
15,2 (50)	1 950 (4,300)
18,2 (60)	2 310 (5,100)
21,3 (70)	2 770 (6,100)
24,4 (80)	3 230 (7,100)

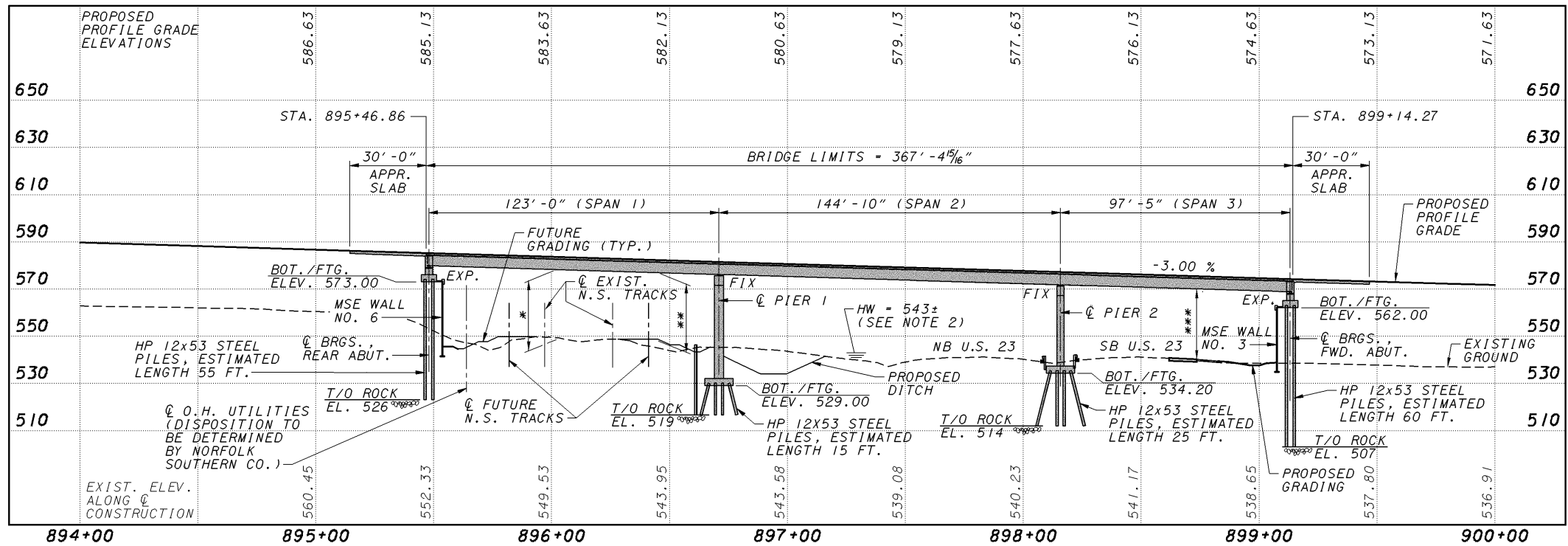


heavy-lift boom range diagram





PLAN



PROFILE ALONG PROFILE GRADE LINE, S.R. 823

TRAFFIC DATA
CURRENT ADT (2010) = 8900
DESIGN ADT (2030) = 13000
DESIGN ADTT (2030) = 1820

LEGEND
● INDICATES BORING LOCATION

- NOTES:**
- EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
 - HIGHWATER (HW) ELEV. 543± IS THE 100 YEAR SCIOTO RIVER BACKWATER ELEVATION AS DETERMINED BY FEMA.
 - MEDIAN GUARDRAIL AT PIER 2 TO BE IN ACCORDANCE WITH STANDARD DRAWING GR-6.2, DESIGN A.

PROPOSED STRUCTURE

TYPE: THREE-SPAN COMPOSITE STEEL PLATE GIRDERS (WEATHERING ASTM A709, GR 50W) WITH REINFORCED CONCRETE DECK ON SEMI-INTEGRAL ABUTMENTS BEHIND MSE WALLS WITH CAP AND COLUMN PIERS

LENGTH OF SPAN: 123'-0", 144'-10", 97'-5" C-C BEARINGS, MEASURED ALONG @ CONSTRUCTION

ROADWAY: 30'-1 1/8" TOE/TOE BARRIERS (RB)
30'-1 1/8" TOE/TOE BARRIERS (LB)

SIDEWALK: NONE

DESIGN LOADING: HS25 (CASE 11) AND THE ALTERNATE MILITARY LOADING, FWS = 60 LB/FT²

SKEW: 22°36'19" RIGHT FORWARD

WEARING SURFACE: MONOLITHIC CONCRETE

APPROACH SLABS: AS-1-81 (30'-0" LONG)

ALIGNMENT: TANGENT

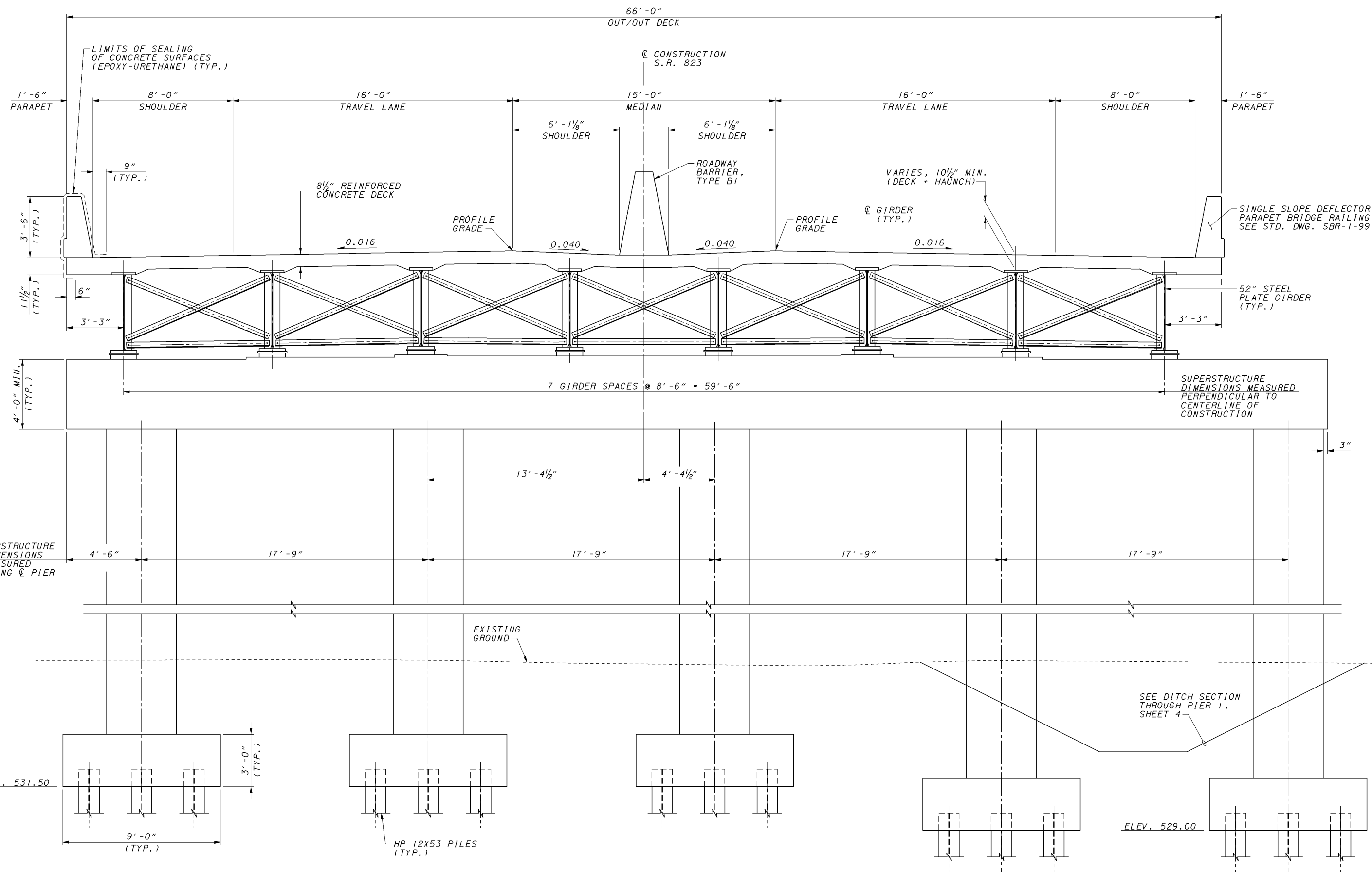
CROWN: 0.016 FT/FT

LATITUDE: N 38°53'32"

LONGITUDE: W 82°59'58"

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TYPICAL TRANSVERSE SECTION AND PIER I

DESIGN AGENCY
CH2MHILL
 5775 Perimeter Drive, Suite 190
 Dublin, Ohio 43017

DATE	11/07
REVIEWED	VKN
STRUCTURE FILE NUMBER	7306792
DRAWN	JBA
REVISIONS	
DESIGNED	DGS
CHECKED	SKT

PIER I ELEVATION & TYPICAL TRANSVERSE SECTION

BRIDGE NO. SCI-823-1601
 S.R. 823 OVER NORFOLK SOUTHERN & U.S. 23

SCI-823-10.13
 PID 79977

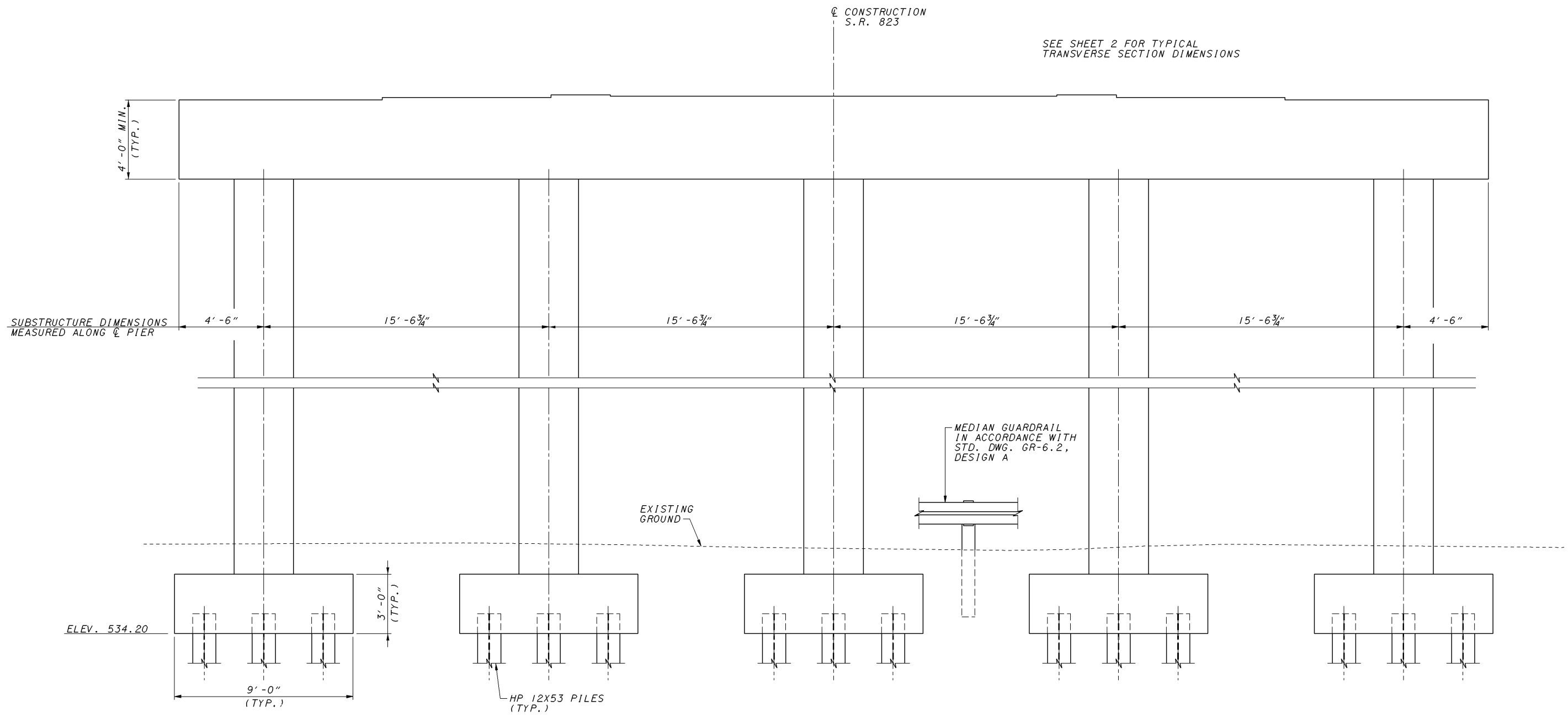
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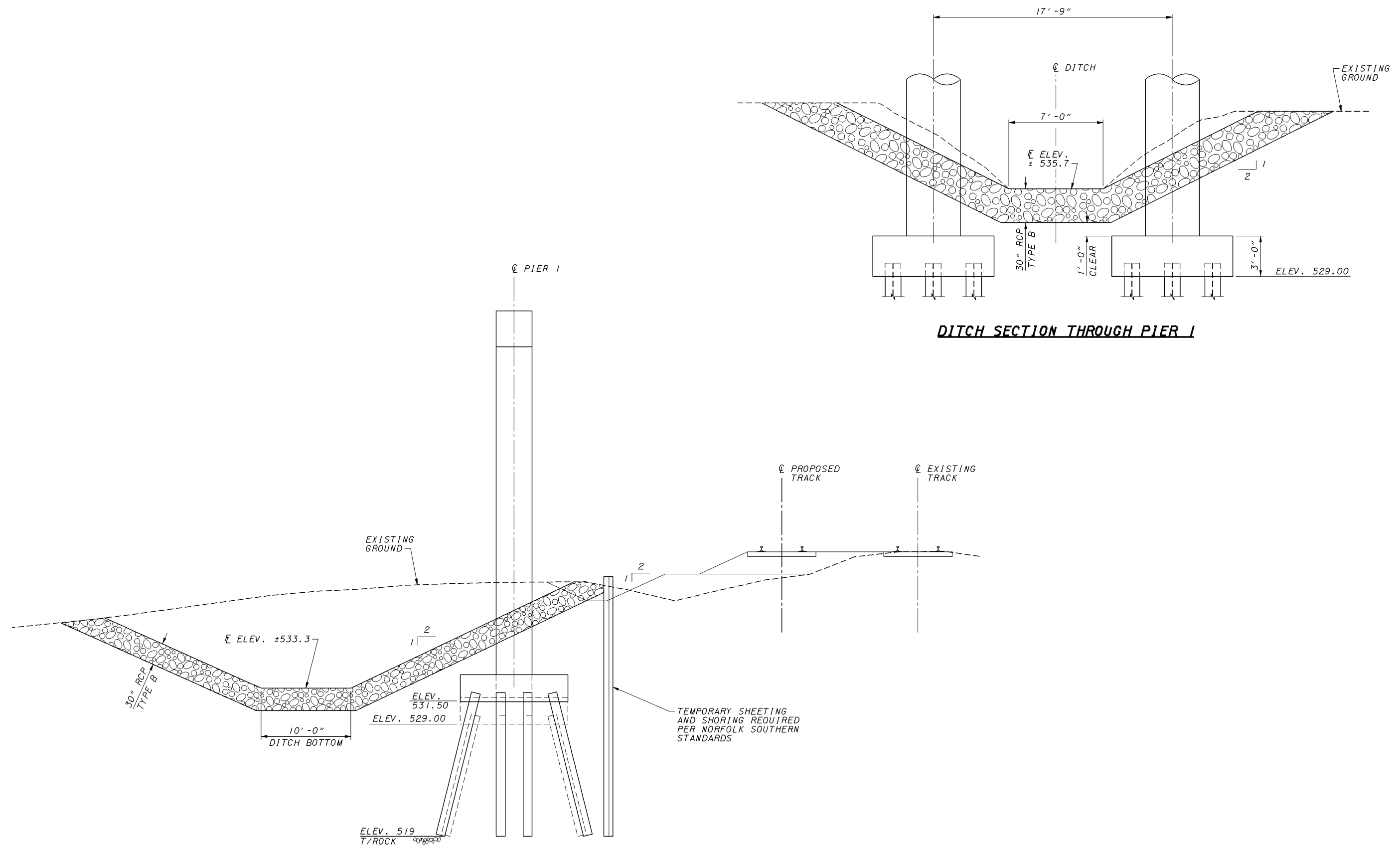
PIER 2 ELEVATION

DESIGNED DGS		DATE 11/07	REVIEWED VKN	STRUCTURE FILE NUMBER 7306792
CHECKED SKT		DESIGNED DGS	DRAWN JBA	REVISIONS
PIER 2 ELEVATION BRIDGE NO. SCI-823-1601 S.R. 823 OVER NORFOLK SOUTHERN & U.S. 23				
SCI-823-10.13 PID 79977		DESIGN AGENCY CH2MHILL 5775 Perimeter Drive, Suite 190 Dublin, Ohio 43017		
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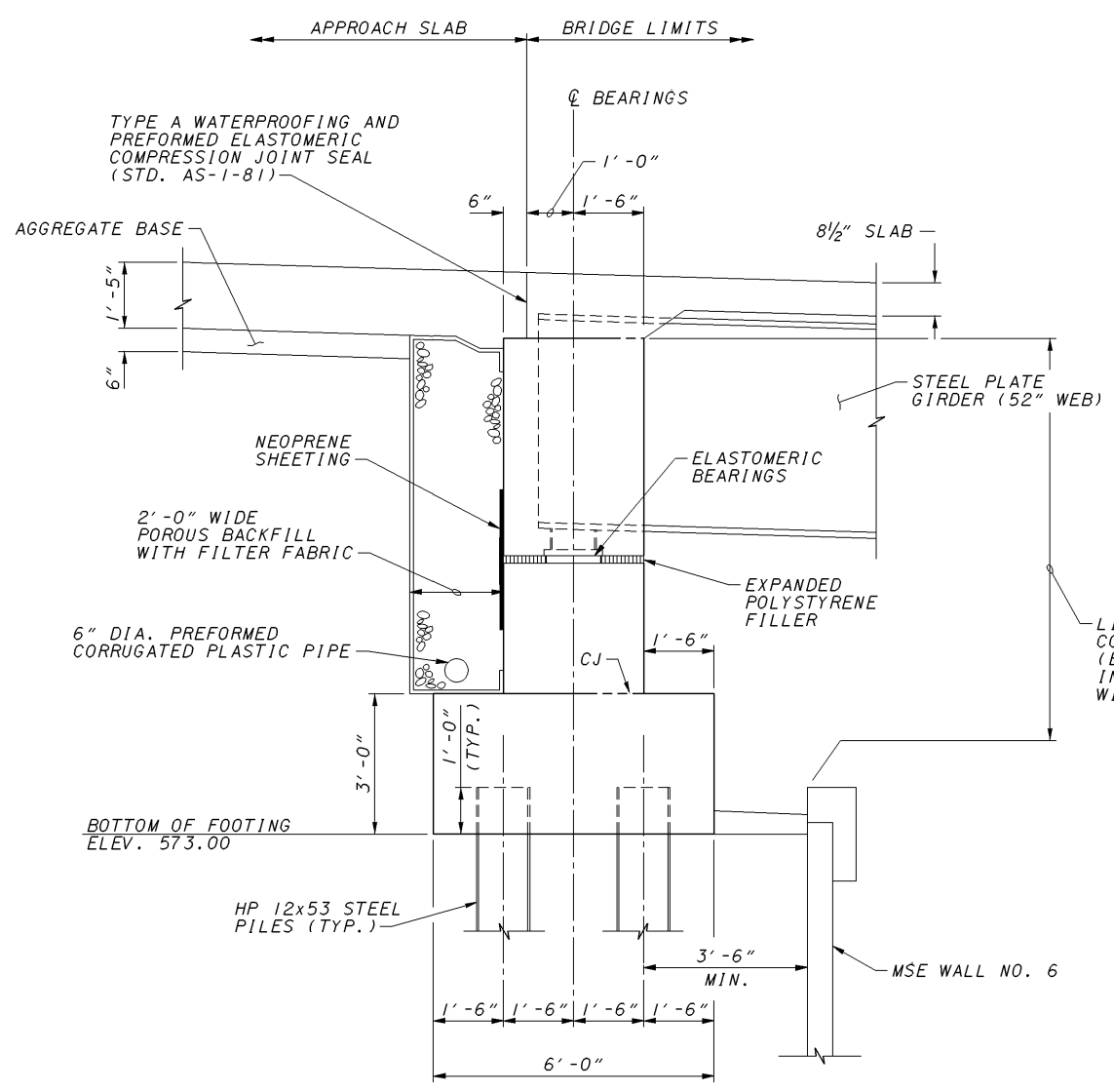


DESIGN AGENCY CH2MHILL Perimeter Drive, Suite 100 Dublin, Ohio 43017	
REVIEWED VKN	DATE 11/07
DRAWN JBA	STRUCTURE FILE NUMBER 7306792
DESIGNED DGS	CHECKED SKT
SUBSTRUCTURE DETAILS BRIDGE NO. SCI-823-1601 S.R. 823 OVER NORFOLK SOUTHERN & U.S. 23	
SCI-823-10.13 PID 79977	
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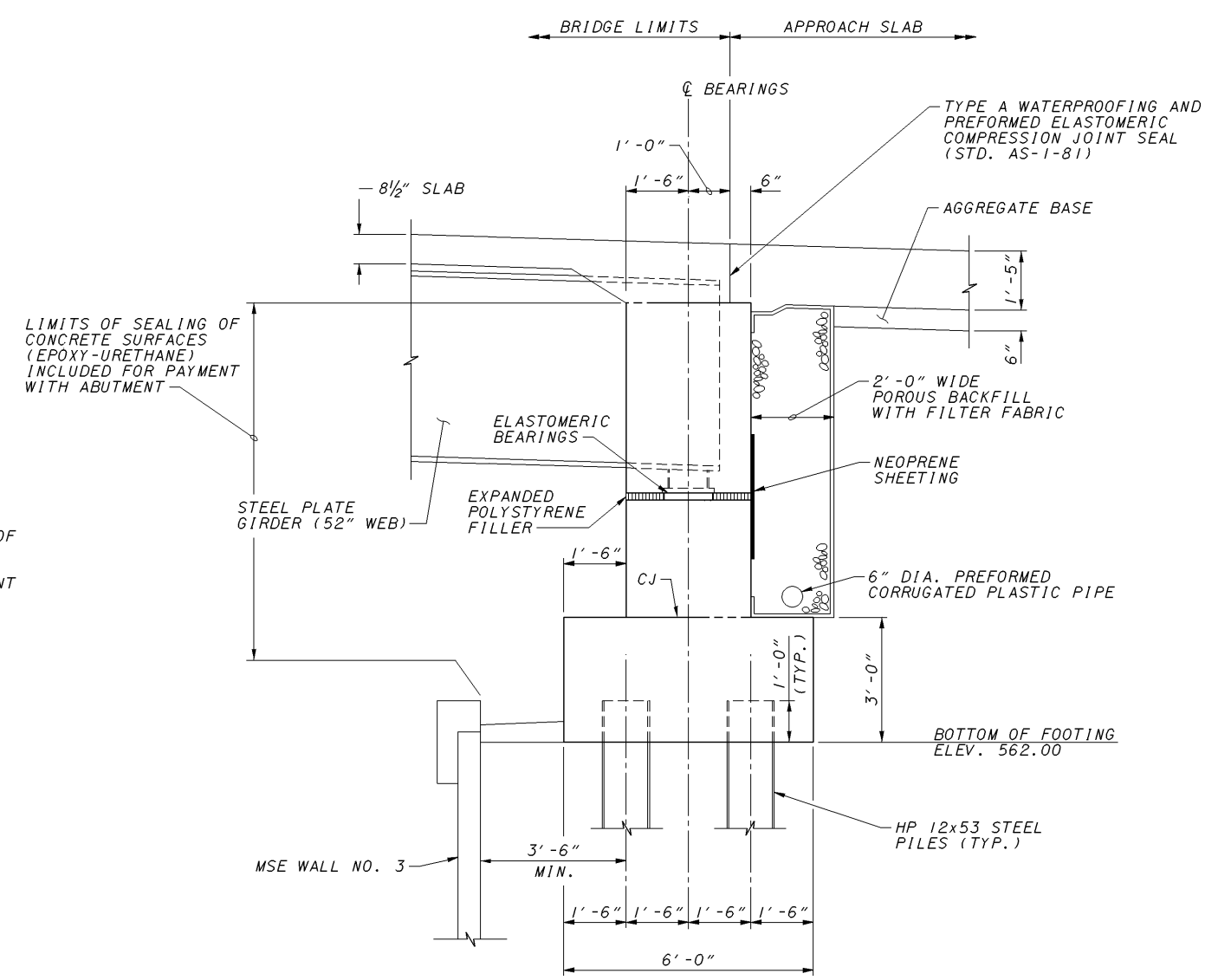
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REAR ABUTMENT SECTION

LIMITS OF SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) INCLUDED FOR PAYMENT WITH ABUTMENT



FORWARD ABUTMENT SECTION

DESIGN AGENCY CH2MHILL 5775 Perimeter Drive, Suite 190 Dublin, Ohio 43017	DATE	11/07
	REVIEWED	VKN
	STRUCTURE FILE NUMBER	7306792
	DESIGNED	DGS
DRAWN	JBA	REVISED
CHECKED	SKT	
ABUTMENT SECTION BRIDGE NO. SCI-823-1601 S.R. 823 OVER NORFOLK SOUTHERN & U.S. 23		
SCI-823-10.13 PID 79977		
5 / 5		
845		

CURVE C-2
 P.I. STA. = 3898+09.03
 $\Delta = 57^{\circ}43'34''$ (RT.)
 $D_c = 07^{\circ}45'00''$
 $R = 739.30'$
 $T = 407.49'$
 $L = 744.85'$
 $E = 104.87'$
 $e_{max} = 0.069$

TRAFFIC DATA
 CURRENT ADT (2010) = 6200
 DESIGN ADT (2030) = 9400
 DESIGN ADTT = 1320

LEGEND
 ✦ DENOTES SOIL BORING LOCATION

NOTES:
 1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
 2. HIGHWATER (HW) ELEV. 543± IS THE 100 YEAR SCIOTO RIVER BACKWATER ELEVATION AS DETERMINED BY FEMA.

PROPOSED STRUCTURE

TYPE: THREE-SPAN COMPOSITE CURVED STEEL PLATE GIRDERS (WEATHERED ASTM A709, GR 50W) WITH REINFORCED CONCRETE DECK ON JOINTED STUB ABUTMENT (REAR) AND JOINTED STUB ABUTMENT ON MSE WALL (FWD.) WITH T-TYPE PIERS

LENGTH OF SPAN: 162'-0", 231'-0", 162'-0"
 C-C BEARINGS, MEASURED ALONG @ CONSTRUCTION

ROADWAY: 30'-0" TOE/TOE PARAPETS

SIDEWALK: NONE

DESIGN LOADING: HS25 (CASE 11) AND THE ALTERNATE MILITARY LOADING, FWS = 60 LB/FT²

SKREW: 21°30'23" RF (REAR ABUTMENT), 08°57'05" RF (PIER 1), 08°57'05" LF (PIER 2), 21°30'23" LF (FORWARD ABUTMENT), MEASURED FROM THE NORMAL TO THE CONSTRUCTION CHORD

WEARING SURFACE: MONOLITHIC CONCRETE

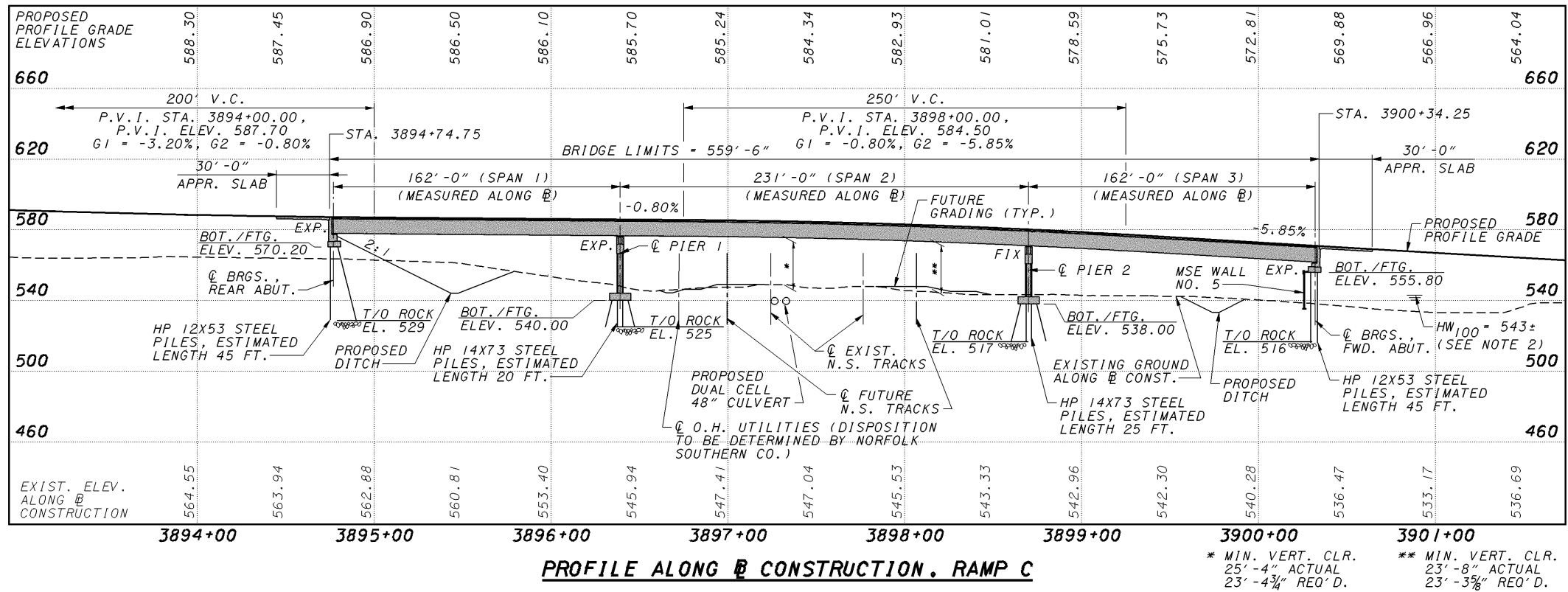
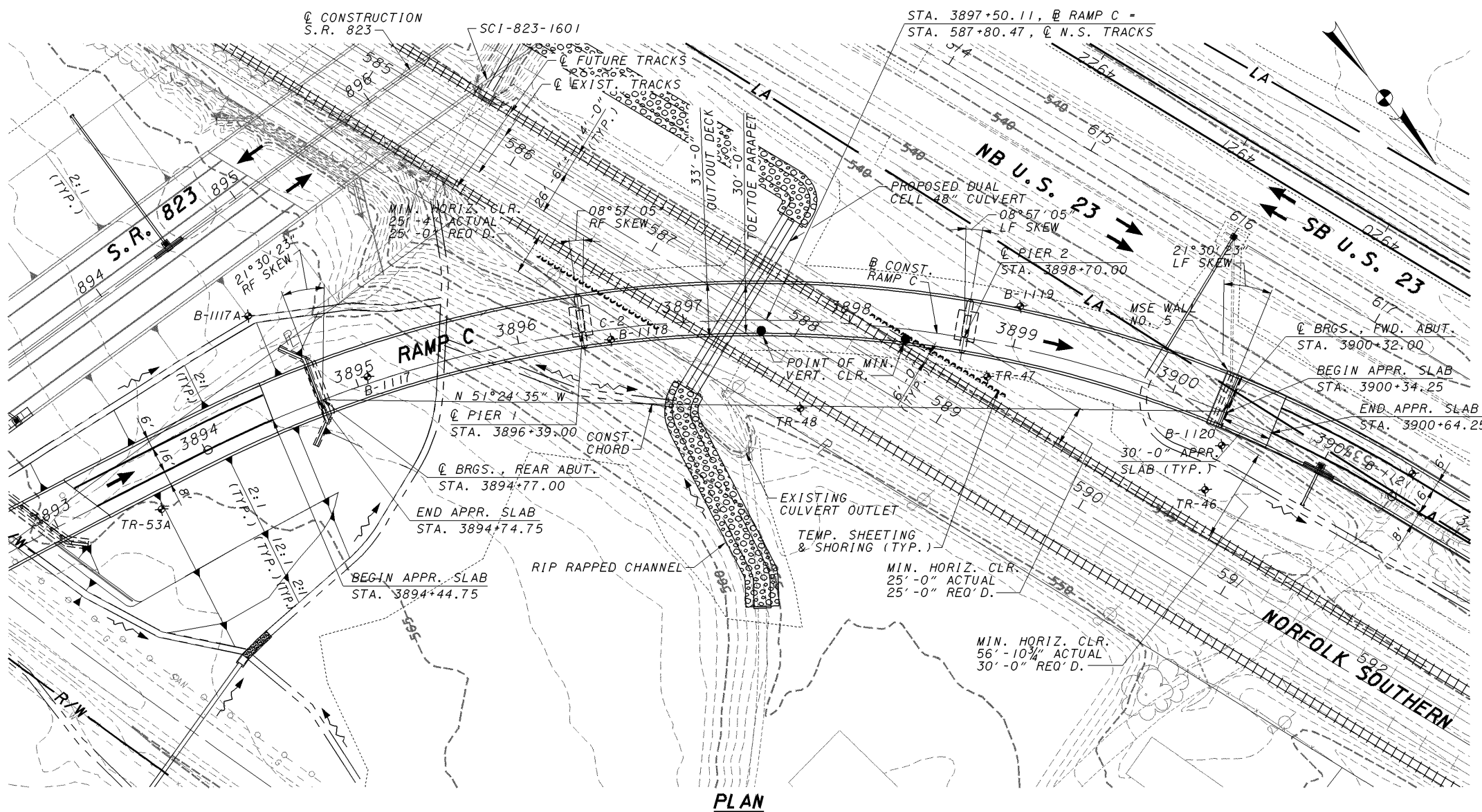
APPROACH SLABS: AS-1-81 (30'-0" LONG)

ALIGNMENT: HORIZONTALLY CURVED (@ RADIUS = 739.30 FT.)

SUPERELEVATION: 0.069 FT/FT

LATITUDE: N 38°53'34"

LONGITUDE: W 82°59'57"



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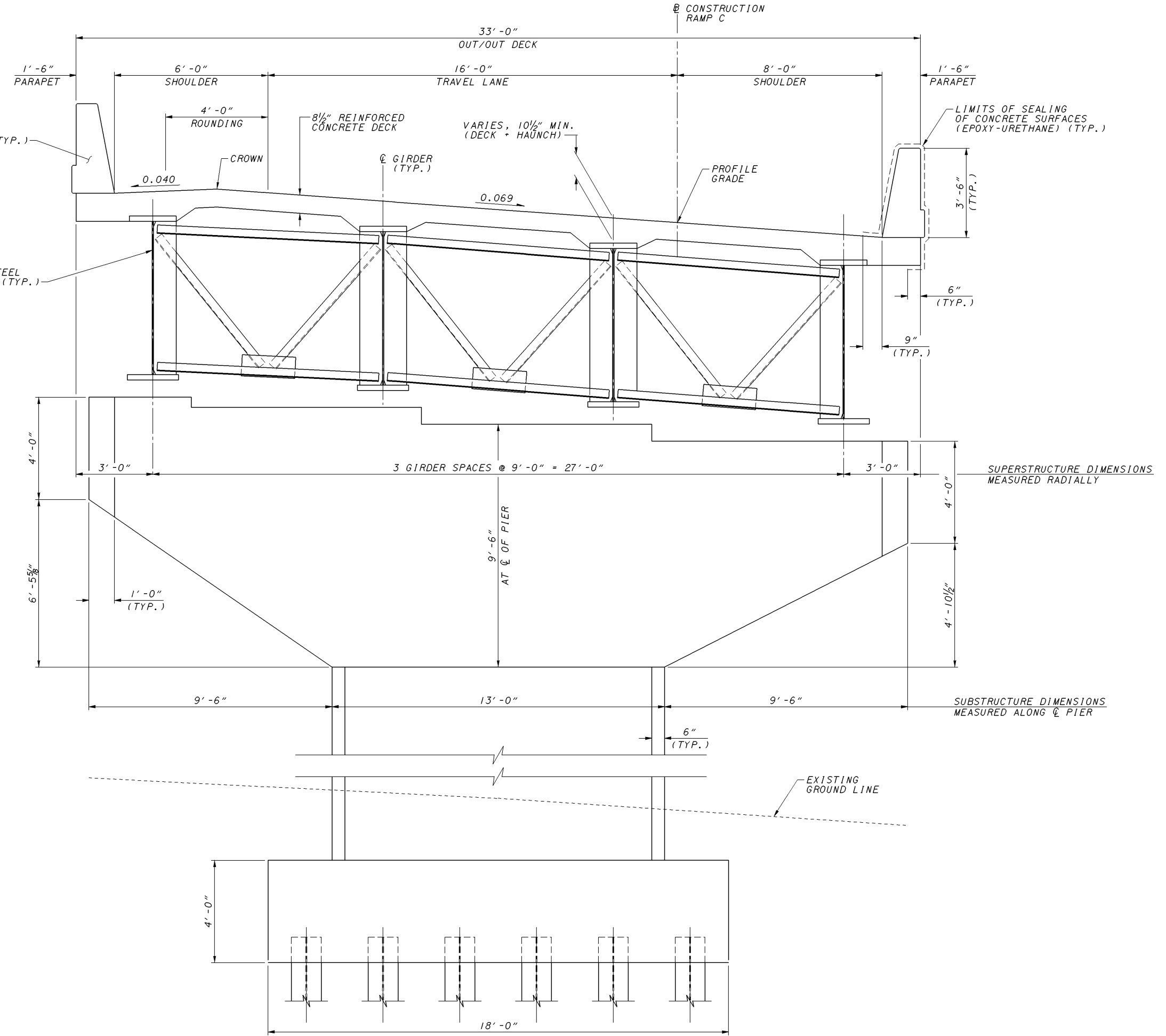
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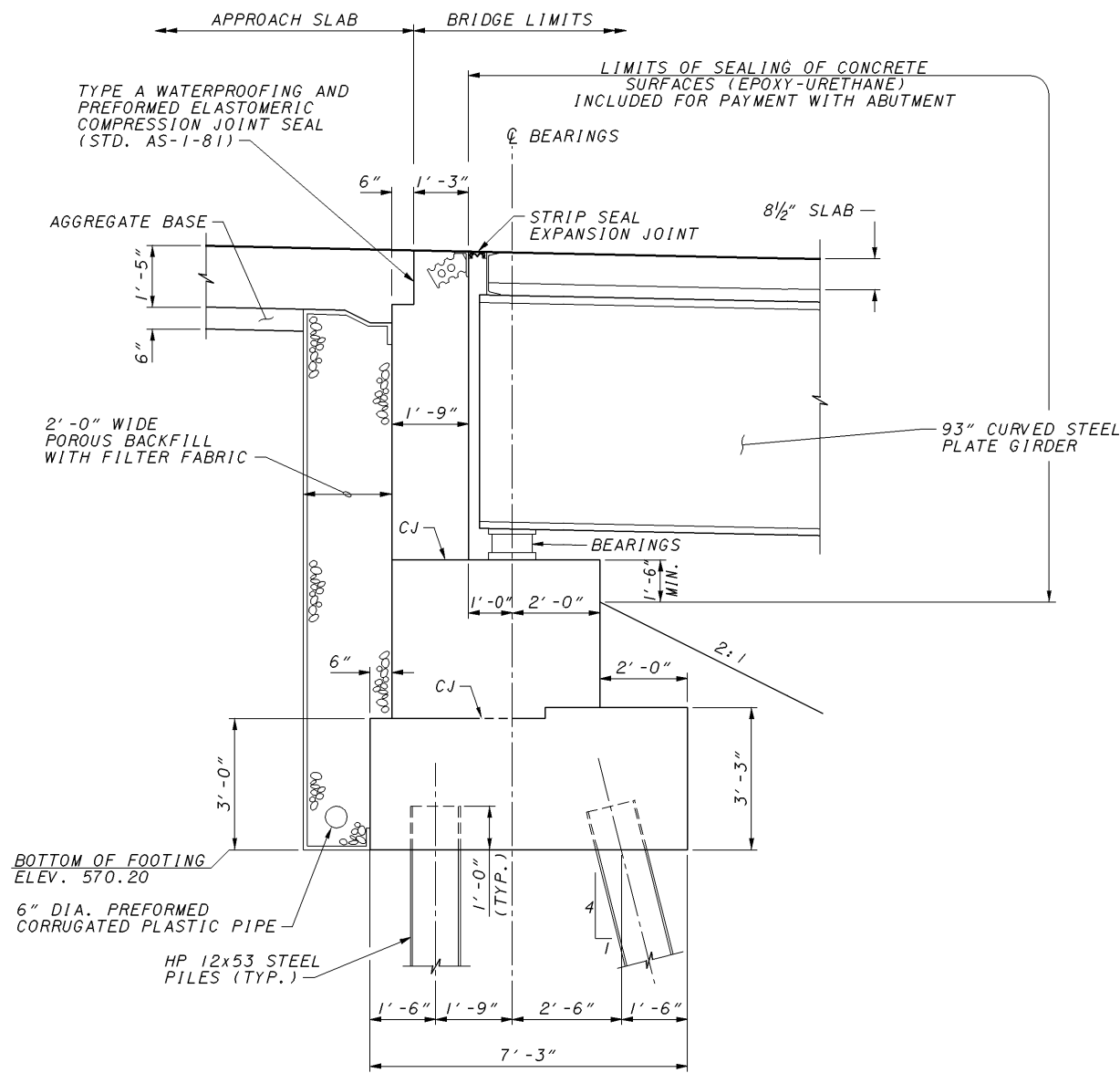
SINGLE SLOPE DEFLECTOR PARAPET BRIDGE RAILING, SEE STD. DWG. SBR-1-99 (TYP.)

93" CURVED STEEL PLATE GIRDER (TYP.)

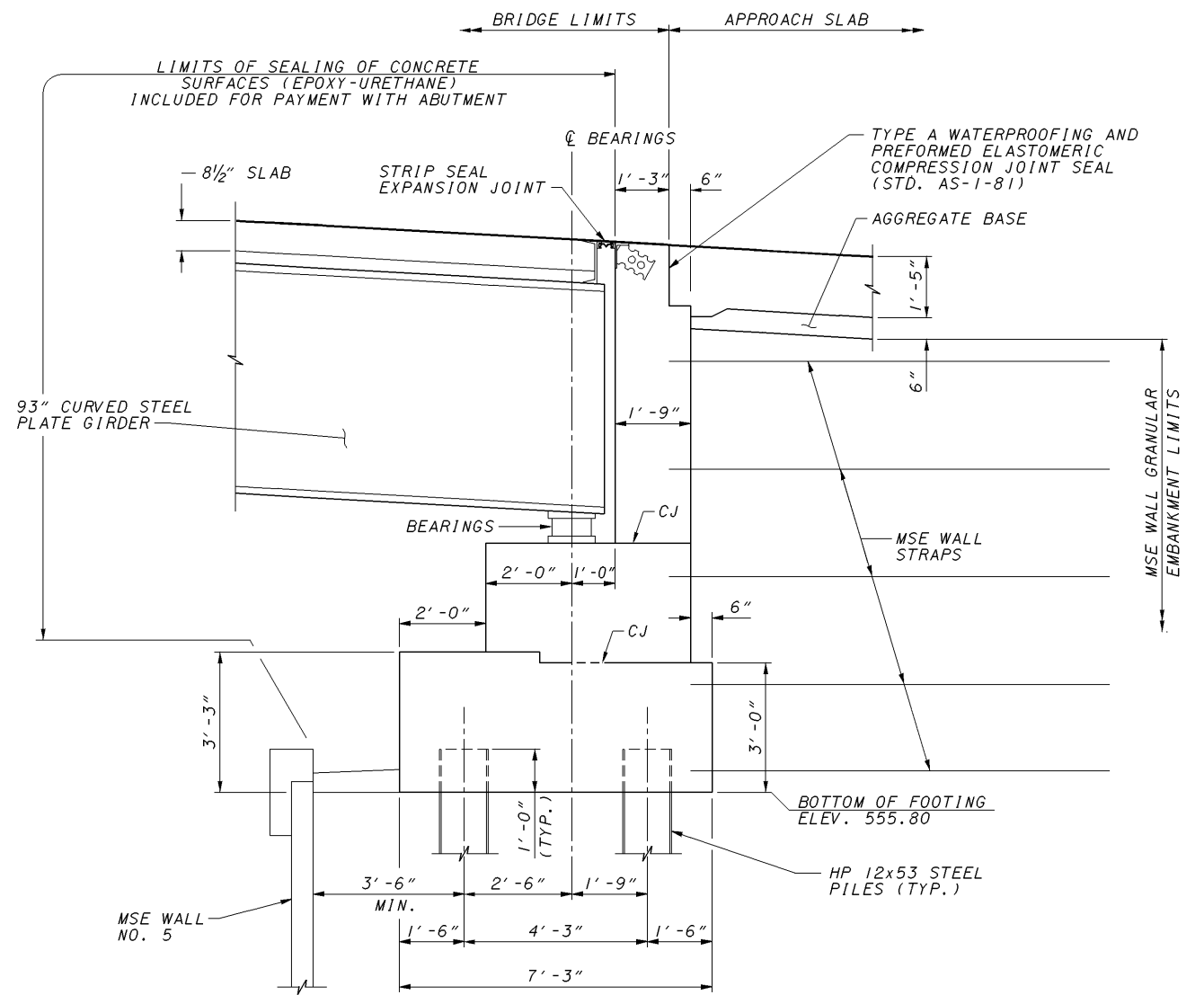


TYPICAL TRANSVERSE SECTION

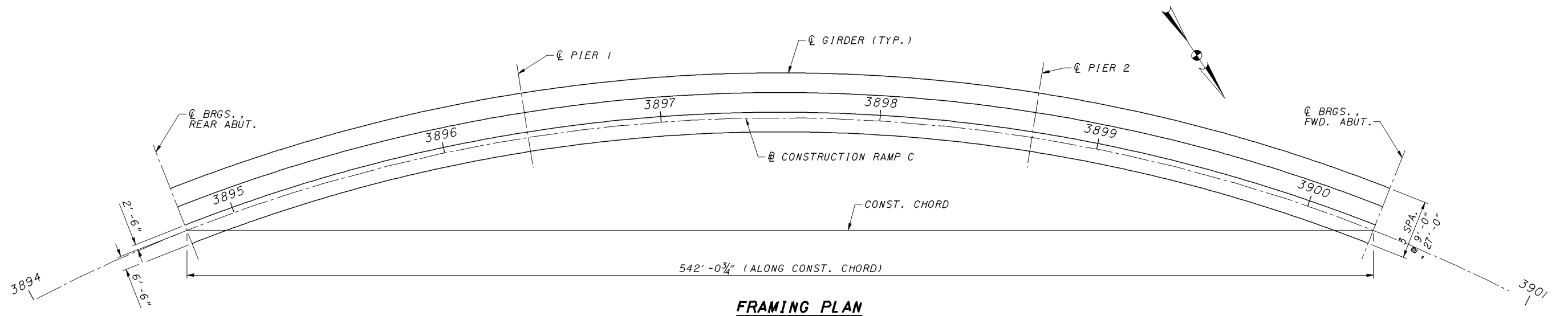
DESIGNED	SKT	CHECKED	DGS
DRAWN	JBA	REVISED	
REVIEWED	VKN	STRUCTURE FILE NUMBER	7306814
DATE	11/07		



REAR ABUTMENT SECTION



FORWARD ABUTMENT SECTION

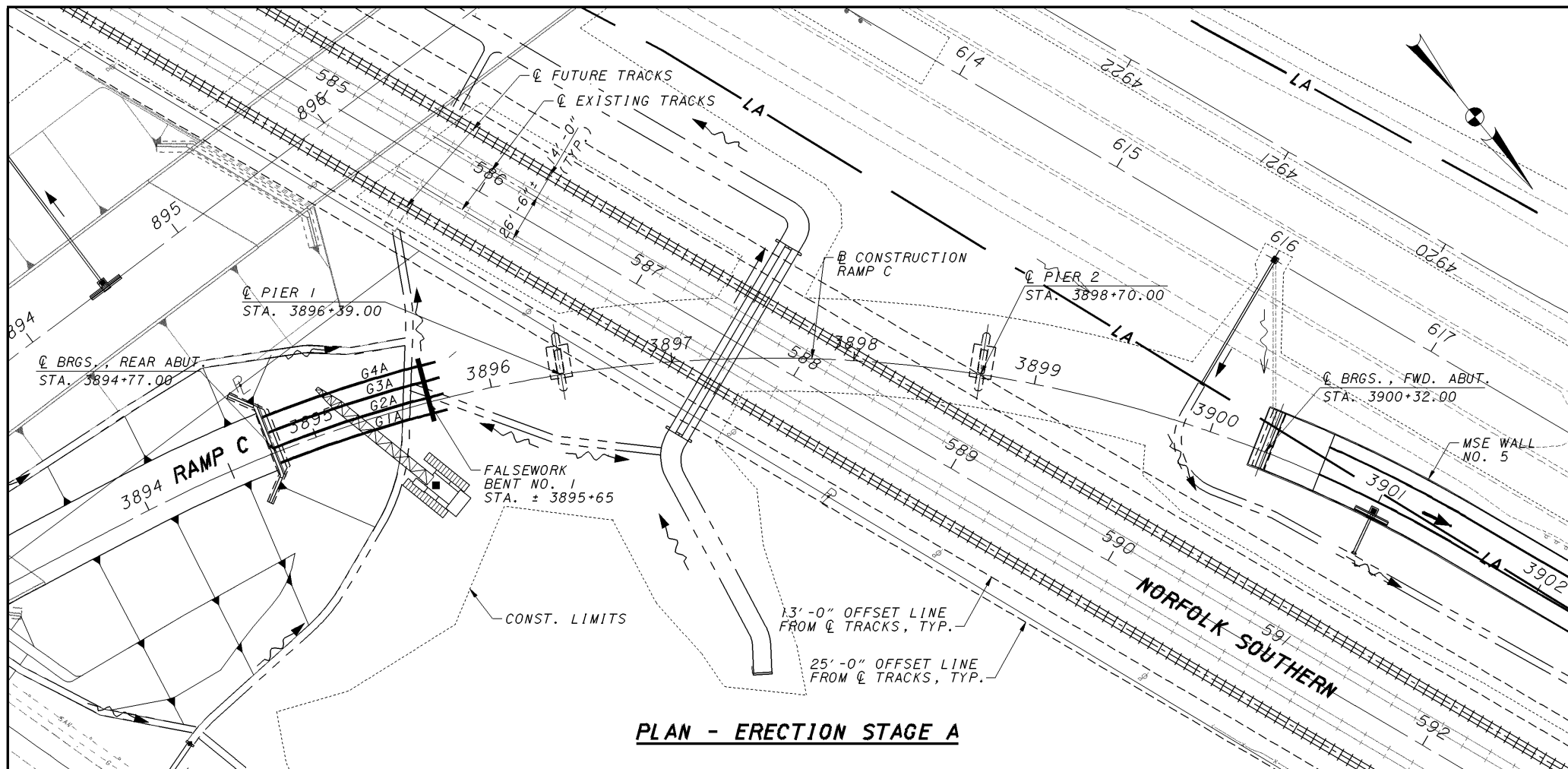


FRAMING PLAN

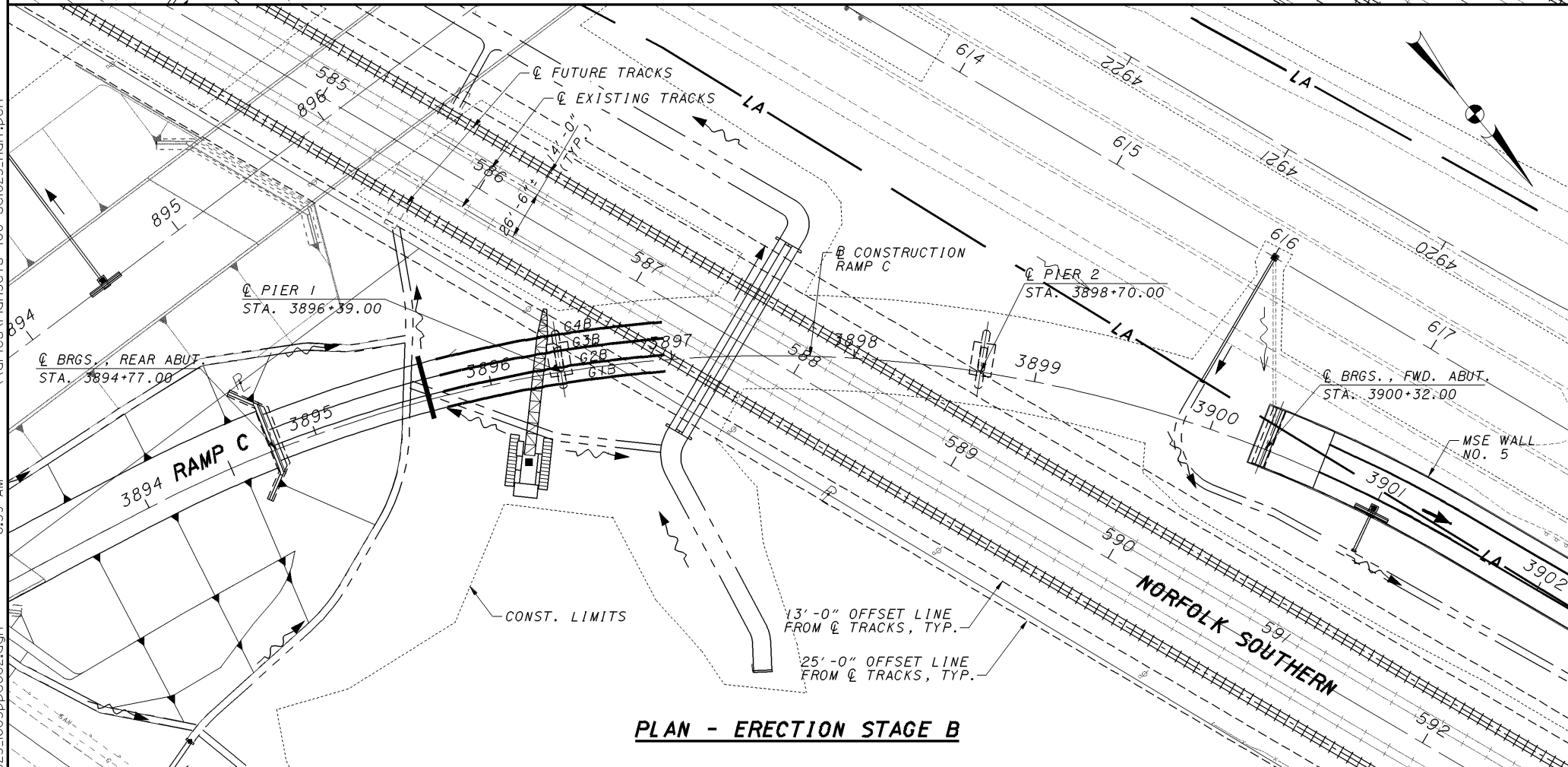
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PLAN - ERECTION STAGE A



PLAN - ERECTION STAGE B

GENERAL NOTES:

- THE FOLLOWING ASSUMPTIONS WERE MADE IN PREPARATION OF THE PRELIMINARY ERECTION PLAN:
 - THE TWO FUTURE NORFOLK SOUTHERN TRACKS WILL HAVE BEEN CONSTRUCTED BY THE TIME STEEL ERECTION OCCURS;
 - THE EXISTING RAILROAD COMMUNICATION LINES WILL LIKELY BE RELOCATED IF THE TWO ADDITIONAL TRACKS ARE CONSTRUCTED AND WERE NOT CONSIDERED IN DEVELOPING THE PRELIMINARY ERECTION PROCEDURE.
- PER NORFOLK SOUTHERN PUBLICATION "OVERHEAD GRADE SEPERATION DESIGN CRITERIA"
 - MINIMUM TEMPORARY HORIZONTAL CLEARANCE IS 13'-0".
 - PERMANENT HORIZONTAL CLEARANCE IS 25'-0".
 - CRANES MUST BE ADEQUATE FOR 150% THE WEIGHT OF THE PICK.
- A MANITOWOC MODEL 999 CRANE (275 TON) WAS ASSUMED FOR THE DEVELOPMENT OF THIS PLAN. ERECTION OF THE GIRDERS OVER THE NORFOLK SOUTHERN TRACKS (ERECTION STAGE E) CONTROLS THE CAPACITY OF THE CRANE SELECTED. STAGES A, B, C, AND D COULD UTILIZE A SMALLER CRANE AT THE ERECTORS DISCRETION.
- CROSS FRAMES/LATERAL BRACING ARE NOT SHOWN ON THE DRAWINGS, BUT IT IS ASSUMED THAT THEY WILL BE INSTALLED AS ERECTION PROCEEDS TO BRACE THE GIRDERS.
- SITE PREPARATION NECESSARY FOR THE CRANE AND TO PROVIDE ACCESS FOR MATERIALS ARE NOT SHOWN ON THE DRAWINGS.
- THE ERECTION SEQUENCE SHOWN ON THE DRAWINGS IS NOT INTENDED FOR CONSTRUCTION. ACTUAL ERECTION METHODS AND PROCEDURES TO BE DETERMINED BY THE CONTRACTOR.
- THE LOCATION OF FALSEWORK BENTS IS SUBJECT TO CHANGE BASED ON FINAL DESIGN LOCATION OF FIELD SPLICE POINTS.

ERECTION NOTES - STAGE A:

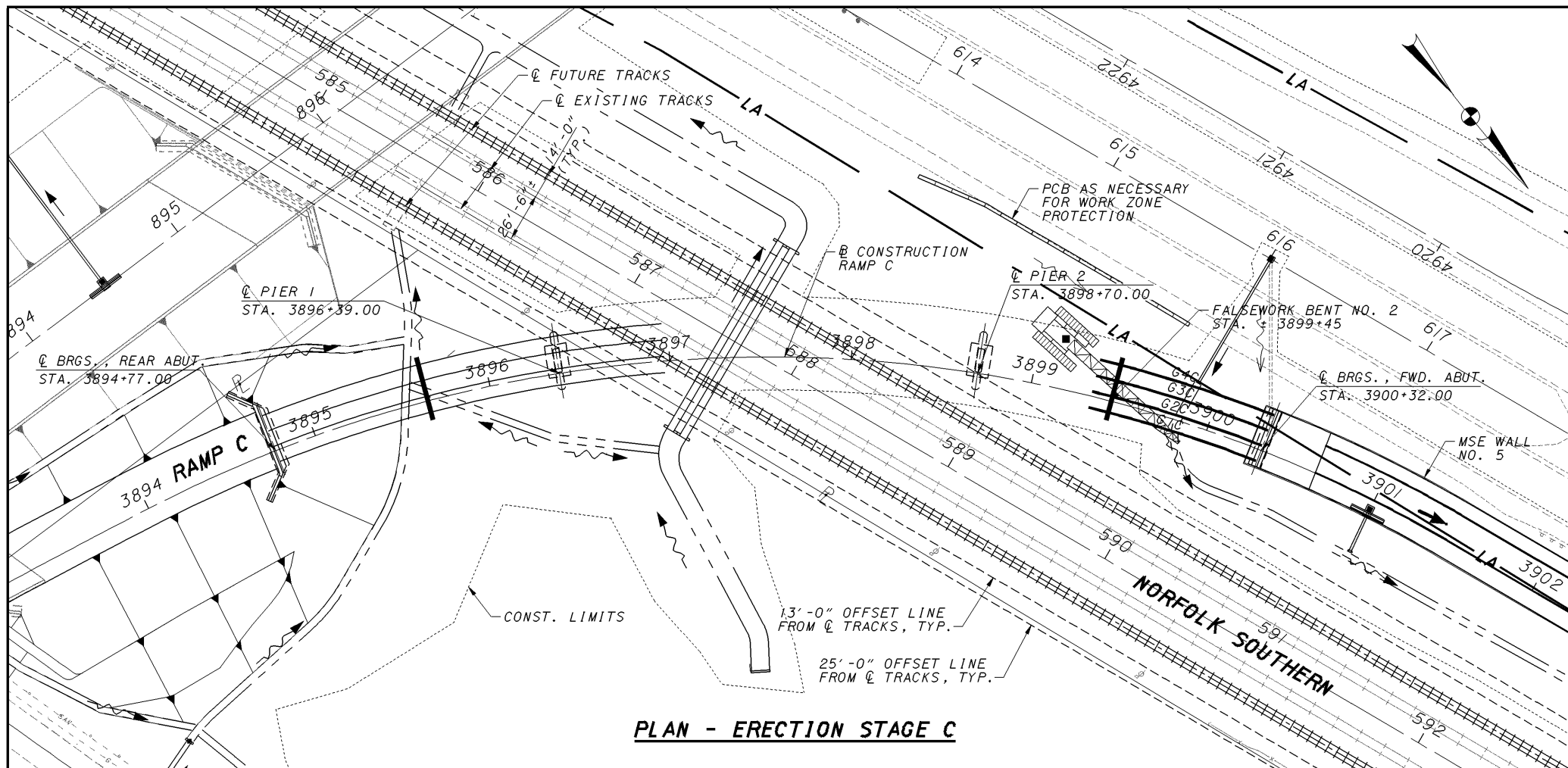
- DUE TO THE LOAD CAPACITY OF THE CRANE, IT MAY BE POSITIONED AT ALMOST ANY POSITION ON THE NORTH SIDE OF THE BRIDGE TO ERECT STAGE A GIRDERS.
- THE LENGTH OF GIRDER G4A IS ±100 FEET WITH AN ESTIMATED MAXIMUM LIFTING WEIGHT OF 50,000 POUNDS. THE OTHER GIRDERS ARE SHORTER AND LIGHTER.
- THE ERECTION PROCEDURE ASSUMES THAT EACH GIRDER WILL BE ERECTED SEPARATELY. HOWEVER, DUE TO THE CAPACITY OF THE CRANE, THE ERECTOR COULD INSTALL CROSS-FRAMES AND BOLT TWO GIRDERS TOGETHER ON THE GROUND AND LIFT THEM INTO PLACE AS A UNIT.
- BEARINGS TO BE WELDED TO GIRDERS AS THE GIRDERS ARE SET.
- THE SUGGESTED ERECTION SEQUENCE IS:
 - DESIGN AND CONSTRUCT FALSEWORK BENT NO. 1;
 - SET BEARINGS AT REAR ABUTMENT;
 - ERECT GIRDERS AND CROSS-FRAMES.

ERECTION NOTES - STAGE B:

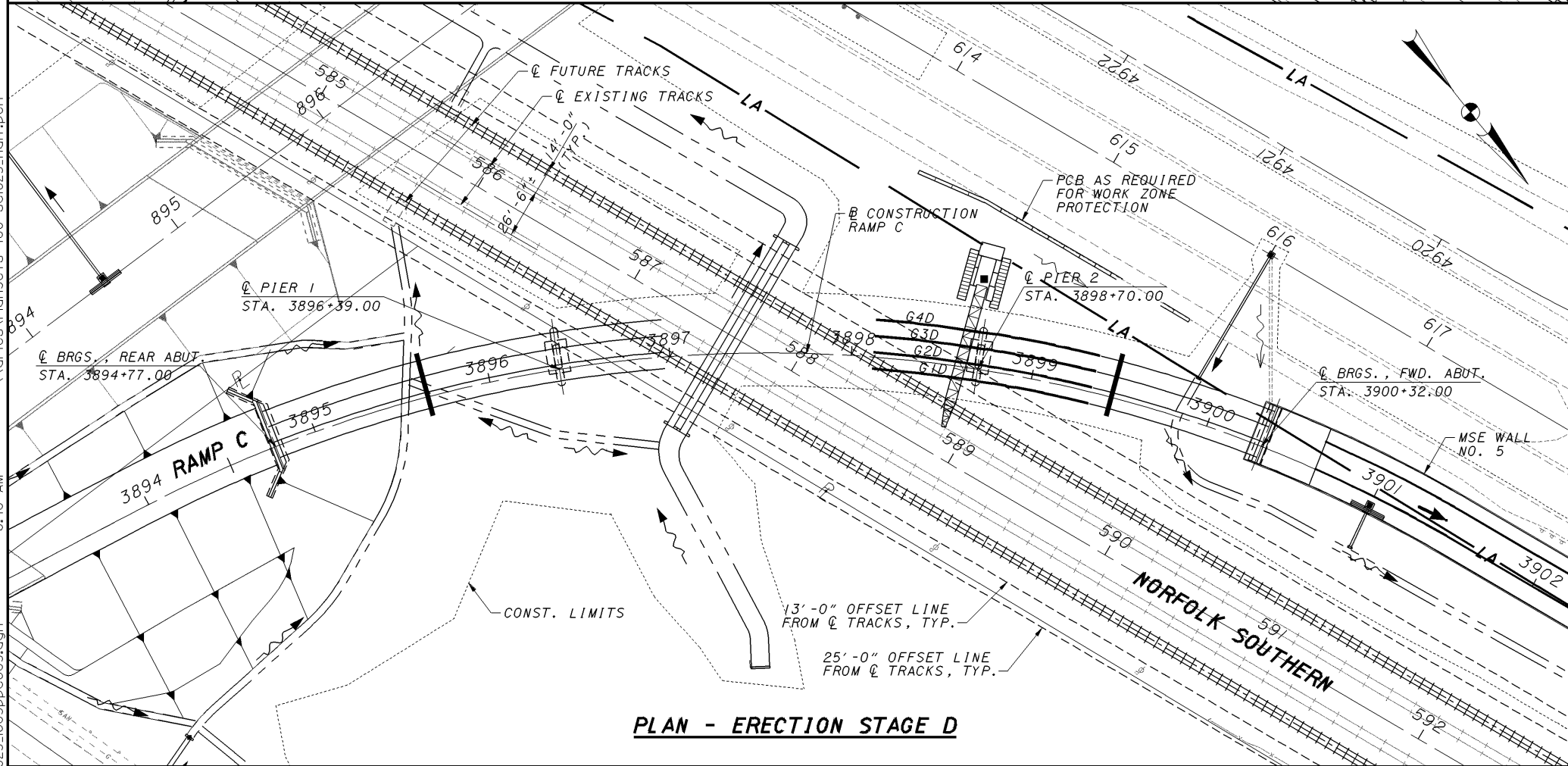
- DUE TO THE LOAD CAPACITY OF THE CRANE, IT MAY BE POSITIONED AT ALMOST ANY POSITION ON THE NORTH SIDE OF THE BRIDGE TO ERECT STAGE B GIRDERS.
- THE LENGTH OF GIRDER G4B IS ±126 FEET WITH AN ESTIMATED MAXIMUM LIFTING WEIGHT OF 85,000 POUNDS. THE OTHER GIRDERS ARE SHORTER AND LIGHTER.
- THE ERECTION PROCEDURE ASSUMES THAT EACH GIRDER WILL BE ERECTED SEPARATELY. HOWEVER, DUE TO THE CAPACITY OF THE CRANE, THE ERECTOR COULD INSTALL CROSS-FRAMES AND BOLT TWO GIRDERS TOGETHER ON THE GROUND AND LIFT THEM INTO PLACE AS A UNIT.
- BEARINGS TO BE WELDED TO GIRDERS AS THE GIRDERS ARE SET.
- MINIMUM 50% OF FIELD SPLICE HOLES TO BE FILLED WITH BOLTS. NUMBER OF HOLES TO BE FILLED TO BE DETERMINED BY CONTRACTOR.
- THE SUGGESTED ERECTION SEQUENCE IS:
 - ERECT BEARINGS ON PIER NO. 1;
 - ERECT GIRDERS AND CROSS-FRAMES.

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DATE	11/07
REVIEWED	VKN
STRUCTURE FILE NUMBER	7306814
DRAWN	JBA
CHECKED	DGS



PLAN - ERECTION STAGE C



PLAN - ERECTION STAGE D

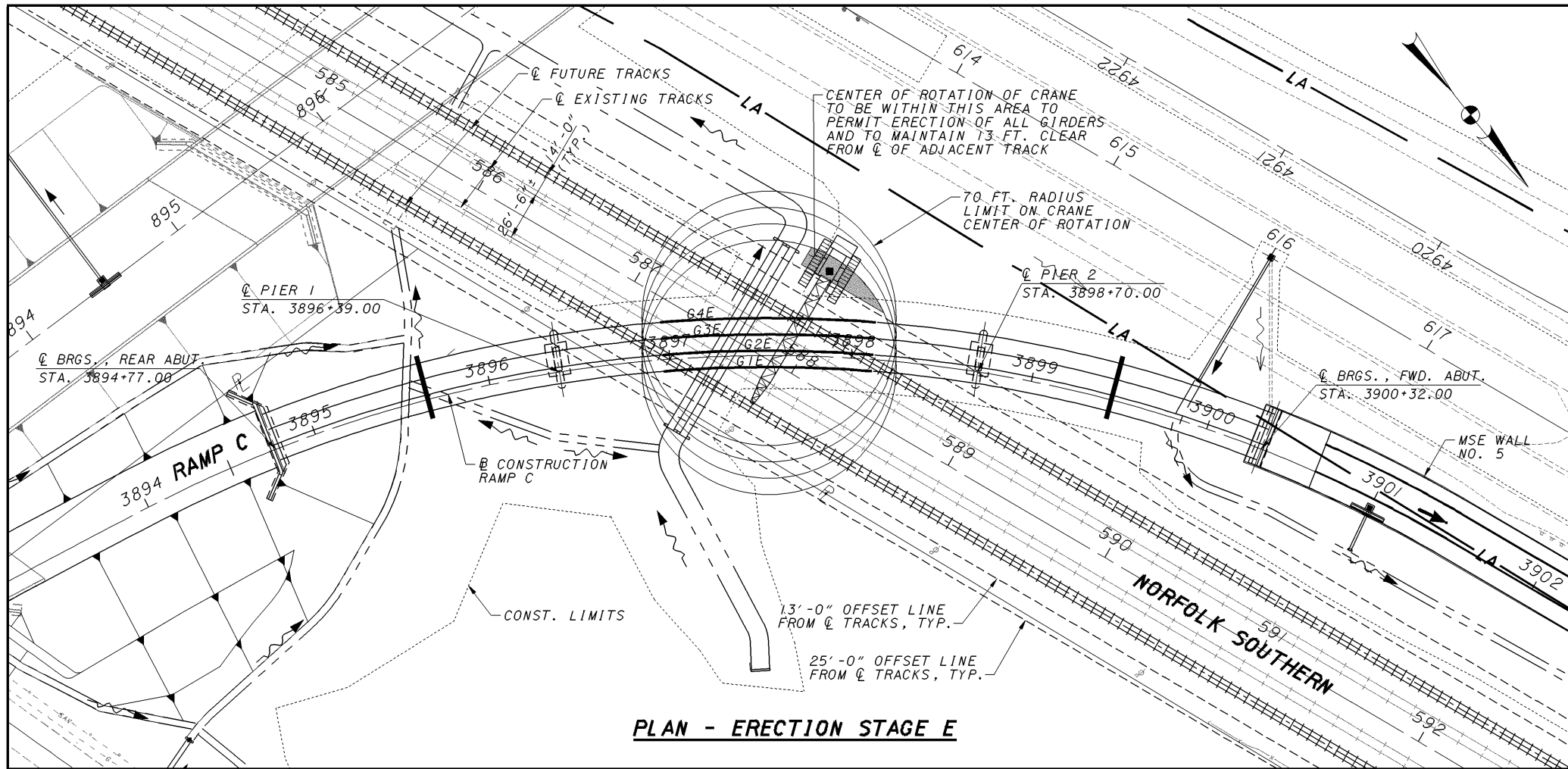
ERECTION NOTES - STAGE C:

1. DUE TO THE LOAD CAPACITY OF THE CRANE, IT MAY BE POSITIONED AT ALMOST ANY POSITION ON THE WEST SIDE OF THE BRIDGE TO ERECT STAGE C GIRDERS.
2. THE LENGTH OF GIRDER G4C IS ±100 FEET WITH AN ESTIMATED MAXIMUM LIFTING WEIGHT OF 50,000 POUNDS. THE OTHER GIRDERS ARE SHORTER AND LIGHTER.
3. THE ERECTION PROCEDURE ASSUMES THAT EACH GIRDER WILL BE ERECTED SEPARATELY. HOWEVER, DUE TO THE CAPACITY OF THE CRANE, THE ERECTOR COULD INSTALL CROSS-FRAMES AND BOLT TWO GIRDERS TOGETHER ON THE GROUND AND LIFT THEM INTO PLACE AS A UNIT.
4. BEARINGS TO BE WELDED TO GIRDERS AS THE GIRDERS ARE SET.
5. THE SUGGESTED ERECTION SEQUENCE IS:
 - A. DESIGN AND CONSTRUCT FALSEWORK BENT NO. 2;
 - B. SET BEARINGS AT FORWARD ABUTMENT;
 - C. ERECT GIRDERS AND CROSS-FRAMES.

ERECTION NOTES - STAGE D:

1. DUE TO THE LOAD CAPACITY OF THE CRANE, IT MAY BE POSITIONED AT ALMOST ANY POSITION ON THE WEST SIDE OF THE BRIDGE TO ERECT STAGE D GIRDERS.
2. THE LENGTH OF GIRDER G4D IS ±125 FEET WITH AN ESTIMATED MAXIMUM LIFTING WEIGHT OF 85,000 POUNDS. THE OTHER GIRDERS ARE SHORTER AND LIGHTER.
3. THE ERECTION PROCEDURE ASSUMES THAT EACH GIRDER WILL BE ERECTED SEPARATELY. HOWEVER, DUE TO THE CAPACITY OF THE CRANE, THE ERECTOR COULD INSTALL CROSS-FRAMES AND BOLT TWO GIRDERS TOGETHER ON THE GROUND AND LIFT THEM INTO PLACE AS A UNIT.
4. BEARINGS TO BE WELDED TO GIRDERS AS THE GIRDERS ARE SET.
5. MINIMUM 50% OF FIELD SPlice HOLES TO BE FILLED WITH BOLTS. NUMBER OF HOLES TO BE FILLED TO BE DETERMINED BY CONTRACTOR.
6. THE SUGGESTED ERECTION SEQUENCE IS:
 - A. ERECT BEARINGS ON PIER NO. 2;
 - B. ERECT GIRDERS AND CROSS-FRAMES.

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PLAN - ERECTION STAGE E

ERECTION NOTES - STAGE E:

1. A REVIEW OF THE HEAVY LIFT DATA TABLES FOR A MANITOWOC MODEL 999 CRANE INDICATES THAT IT CAN LIFT 90,000 POUNDS (1.5 TIMES ACTUAL WEIGHT) AT A 70' OPERATING RADIUS. SUFFICIENT, BUT LIMITED, SPACE IS AVAILABLE FOR THE LIFT WHILE STILL MAINTAINING A MINIMUM 13' CLEAR ZONE FROM THE CENTERLINE OF THE ADJACENT PROPOSED NORFOLK SOUTHERN TRACK.
2. THE LENGTH OF GIRDER G4E IS ±119 FEET WITH AN ESTIMATED MAXIMUM LIFTING WEIGHT OF 60,000 POUNDS. THE OTHER GIRDERS ARE SHORTER AND LIGHTER.
3. THE ERECTION PROCEDURE ASSUMES THAT EACH GIRDER WILL BE ERECTED SEPARATELY.
4. MINIMUM 50% OF FIELD SPLICE HOLES TO BE FILLED WITH BOLTS. NUMBER OF HOLES TO BE FILLED TO BE DETERMINED BY CONTRACTOR.
5. THE SUGGESTED ERECTION SEQUENCE IS:
 - A. ERECT GIRDERS AND CROSS-FRAMES AND COMPLETE ALL FIELD SPLICES.
 - B. REMOVE FALSEWORK BENTS.

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DESIGN AGENCY
CH2MHILL
Perimeter Drive, Suite 180
Dublin, Ohio 43017

DATE	11/07
REVIEWED	VKN
STRUCTURE FILE NUMBER	7306814
DESIGNED	SKT
CHECKED	DGS
DRAWN	JBA
REVISED	

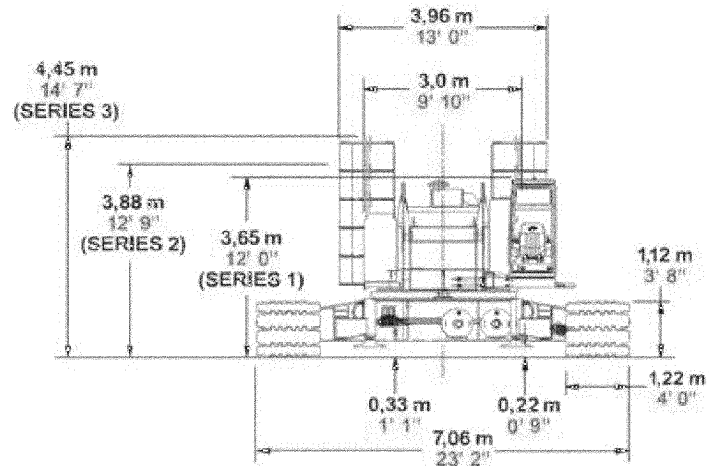
ERECTION SEQUENCE PLAN
BRIDGE NO. SCI-823-1603
RAMP C OVER NORFOLK SOUTHERN

SCI-823-10.13
PID 79977

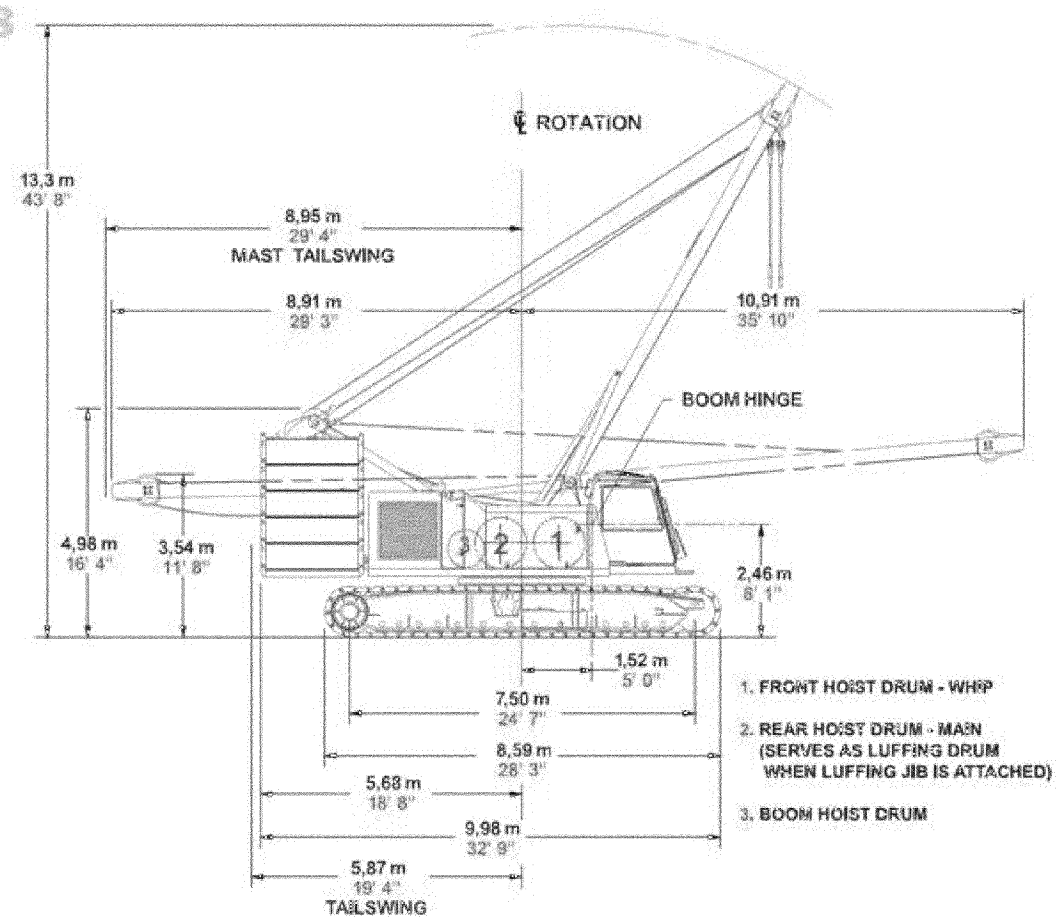
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outline dimensions



outline dimensions



heavy-lift boom load chart

Liftcrane Boom Capacities - Series 3
Boom No. 82 or No. 22EL
 99 605 kg (219,600 lb) Upperworks Counterweight 36 288 kg (80,000 lb) Carbody Counterweight
 360° Rating kg (lb) x 1 000

Boom m (ft)	21,3 (70)	27,4 (90)	33,5 (110)	39,6 (130)	45,7 (150)	51,8 (170)	57,9 (190)	64,0 (210)	70,1 (230)	76,2 (250)	82,3 (270)	89,4 (290)
Radius 4,6 (15)	250,0* (551,0)*											
5,0 (17)	219,9 (482,5)											
5,0 (20)	183,0 (397,5)	180,7 (396,4)										
8,0 (26)	139,0 (309,3)	126,5 (279,5)	132,2 (295,0)	130,1 (285,5)								
10,0 (32)	111,5 (252,2)	110,8 (250,5)	110,5 (249,9)	110,6 (249,9)	100,8 (224,1)	88,6 (196,8)						
11,0 (36)	100,2 (221,8)	100,3 (222,1)	100,3 (221,9)	99,8 (221,0)	97,6 (215,7)	86,3 (190,5)	76,7 (169,2)	63,1 (139,3)				
12,0 (40)	88,2 (193,3)	88,3 (190,4)	88,3 (190,4)	88,3 (190,0)	88,3 (190,7)	81,4 (177,0)	74,9 (164,5)	62,9 (138,4)	51,8 (114,1)			
14,0 (46)	70,9 (156,1)	70,9 (156,1)	70,9 (156,0)	70,9 (155,1)	70,5 (155,1)	70,3 (154,6)	67,9 (149,6)	62,1 (137,1)	51,2 (113,0)	42,6 (94,1)		35,3 (77,9)
15,0 (50)	64,4 (139,0)	64,4 (139,0)	64,3 (138,8)	64,3 (138,3)	63,8 (137,9)	63,6 (137,3)	63,5 (136,7)	60,7 (132,5)	50,9 (112,2)	42,3 (93,3)		35,0 (77,2)
18,0 (60)	50,1 (109,2)	50,1 (109,0)	49,9 (107,8)	49,6 (107,2)	49,5 (106,8)	49,1 (106,1)	48,9 (105,5)	48,5 (104,7)	48,2 (104,7)	41,5 (91,4)		34,3 (75,5)
24,0 (80)	33,6 (72,6)	33,6 (72,6)	33,5 (72,3)	33,2 (71,7)	33,0 (71,2)	32,6 (70,4)	32,3 (69,8)	31,9 (69,9)	31,9 (69,9)	31,5 (69,2)		31,3 (67,2)
30,0 (100)		24,4 (52,7)	24,3 (52,5)	24,1 (51,9)	23,8 (51,4)	23,5 (50,8)	23,1 (49,9)	22,7 (49,0)	22,7 (49,0)	22,2 (48,0)		21,9 (47,2)
34,0 (110)			20,2 (45,0)	19,9 (44,0)	19,7 (43,6)	19,3 (42,9)	19,0 (42,0)	18,8 (42,0)	18,6 (41,0)	18,1 (40,2)		17,7 (39,2)
36,0 (120)			18,5 (39,8)	18,2 (38,7)	18,0 (37,9)	17,6 (37,2)	17,3 (36,3)	16,9 (35,2)	16,8 (35,2)	16,4 (34,5)		16,0 (34,5)
40,0 (130)				15,3 (34,0)	15,1 (33,2)	14,8 (32,4)	14,4 (31,6)	14,0 (31,0)	14,0 (31,0)	13,5 (30,5)		13,2 (29,7)
42,0 (140)				13,9 (29,3)	13,9 (29,9)	13,5 (29,1)	13,2 (28,4)	12,8 (27,6)	12,8 (27,4)	12,3 (26,5)		12,0 (25,6)
46,0 (150)					11,7 (22,4)	11,5 (22,4)	11,1 (22,4)	10,7 (22,4)	10,7 (22,4)	10,2 (22,1)		9,9 (22,1)
50,0 (160)						8,7 (19,1)	8,7 (19,1)	8,4 (18,9)	8,0 (18,0)	8,5 (19,1)		8,1 (18,1)
52,0 (170)							8,5 (19,1)	8,6 (19,3)	8,2 (18,4)	8,2 (18,3)		7,8 (17,4)
58,0 (190)								5,8 (13,0)	6,1 (13,6)	6,2 (13,9)		5,4 (12,1)
64,0 (210)									3,4 (7,6)	4,1 (9,1)		3,8 (8,5)
70,0 (230)										1,9 (4,1)		1,8 (4,0)

*NOTE: Special equipment required.

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
 NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

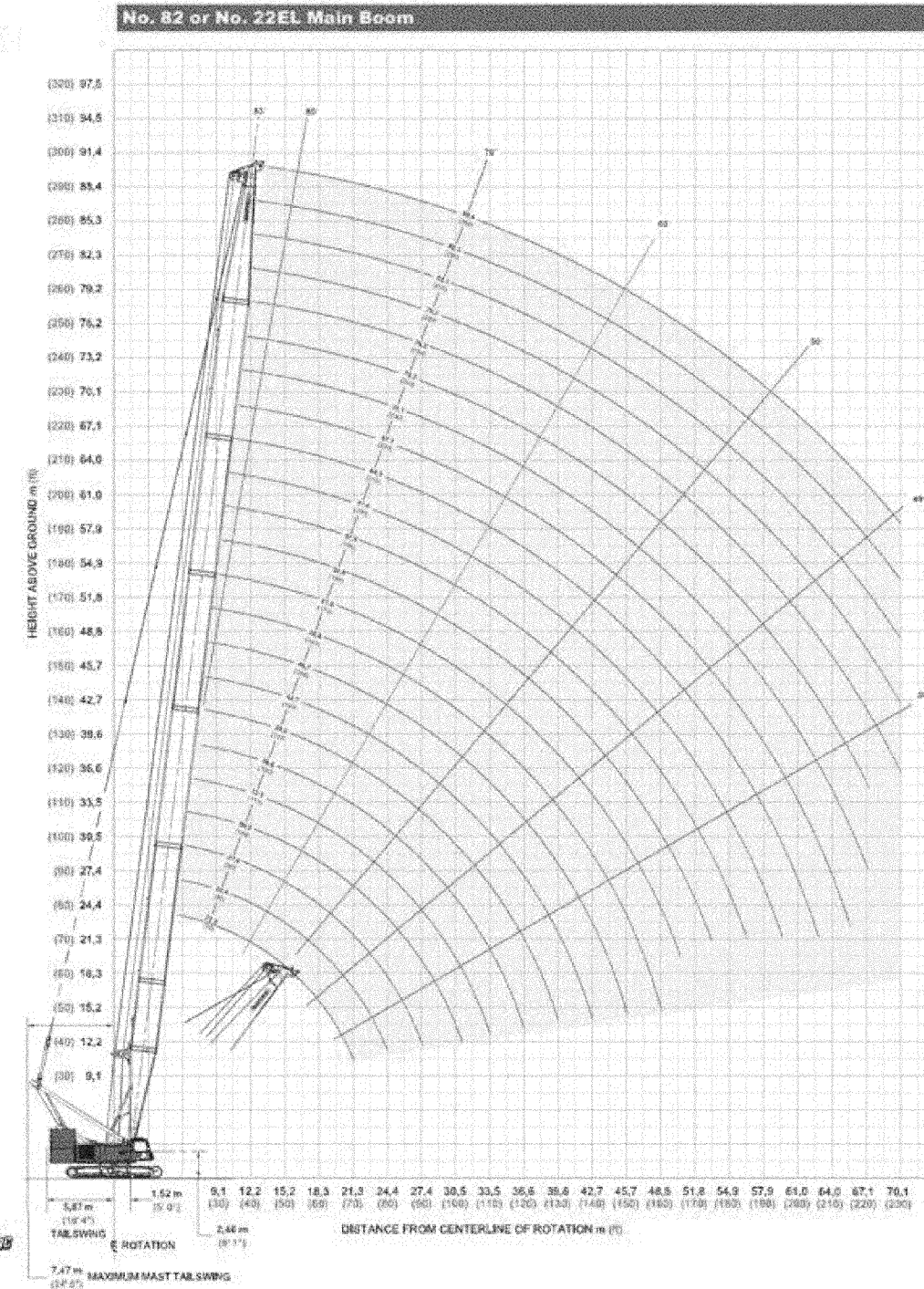
Fixed Jib No. 134 on Heavy-Lift Boom No. 82 or No. 22EL

Defect from Capacity when fixed jib is attached kg (lb)

Jib Length m (ft)	kg (lb)
9,1 (30)	1 220 (2,700)
12,2 (40)	1 590 (3,500)
15,2 (50)	1 950 (4,300)
18,2 (60)	2 310 (5,100)
21,3 (70)	2 770 (6,100)
24,4 (80)	3 230 (7,100)

model 999

heavy-lift boom range diagram



model 999

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DESIGN AGENCY
CH2MHILL
 5775 Perimeter Drive, Suite 190
 Dublin, Ohio 43017

DATE 11/07
 REVIEWED VKN
 DRAWN JBA
 DESIGNED SKT
 CHECKED DGS
 STRUCTURE FILE NUMBER 7306814

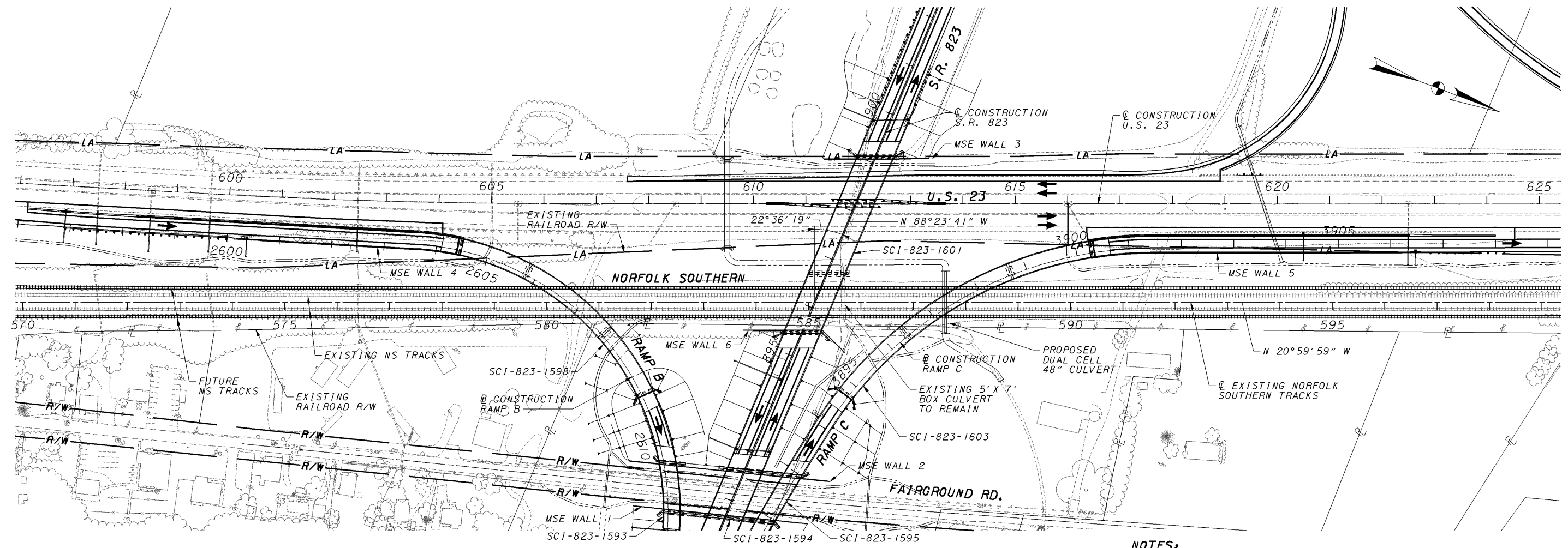
CRANE DATA - MANITOWOC MODEL 999
 BRIDGE NO. SCI-823-1603
 RAMP C OVER NORFOLK SOUTHERN

SCI-823-10.13
 PID 79977

5/5

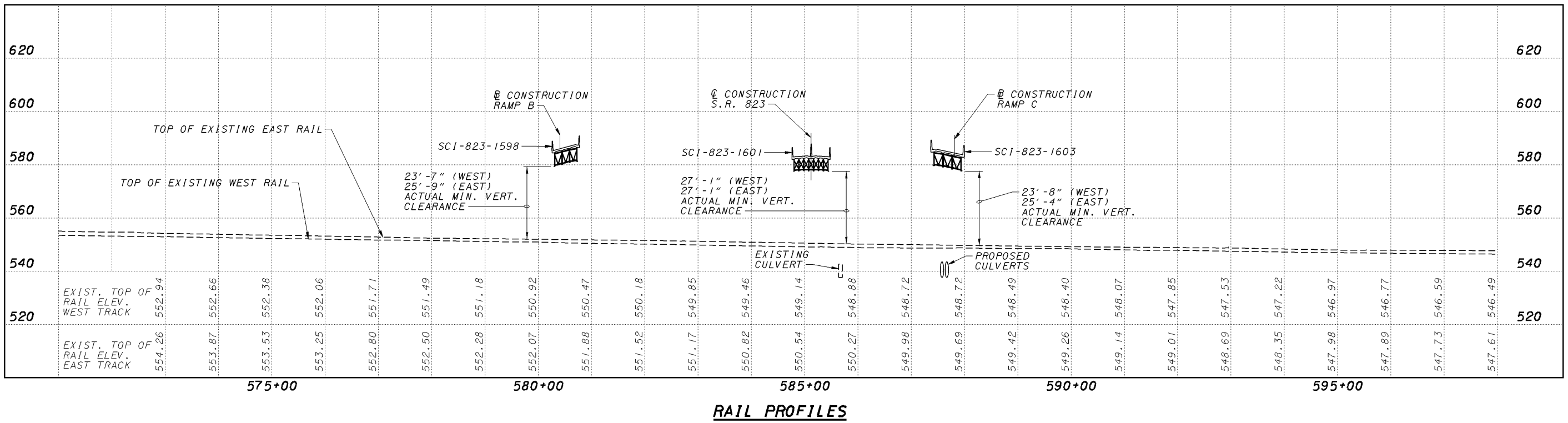
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PLAN

- NOTES:**
- RAILROAD TRAFFIC COUNT: AVERAGE 25-35 FREIGHT TRAINS PER DAY (SPEED = 50 - 60 MPH)
 - RAILROAD STATION 585+00 = RR MP 618.51
 - MINIMUM STRUCTURE CLEARANCES SHOWN BELOW FOR THE WEST TRACK ARE LOCATED ALONG THE FUTURE WEST TRACK LOCATION.
 - PROPOSED DUAL CELL 48" CULVERT WILL BE JACKED UNDER THE EXISTING TRACKS. THE PROPOSED INVERT ELEVATION TO BE ±538.2'.

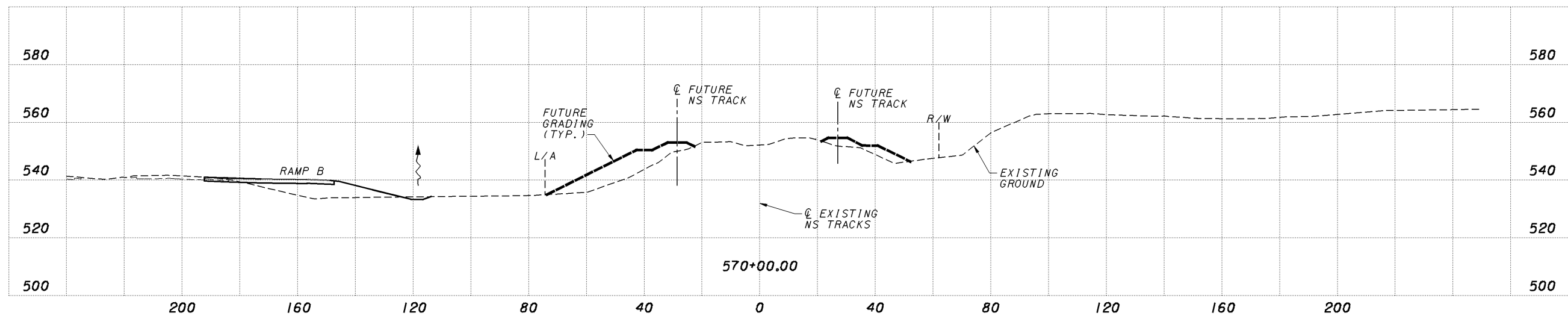
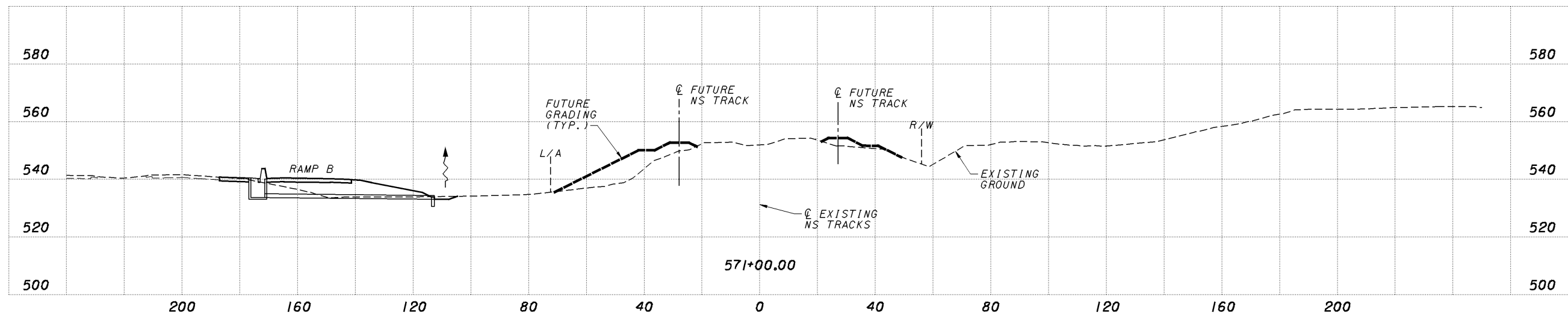
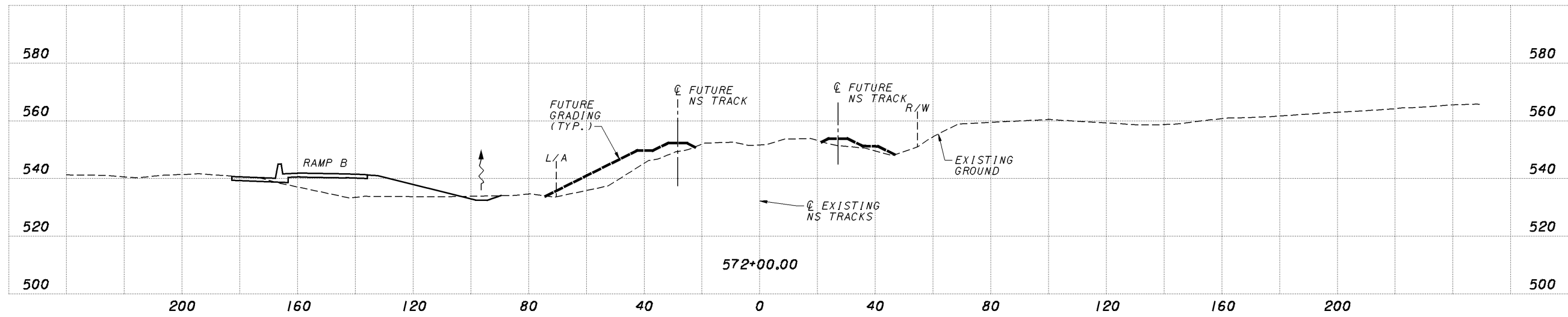


RAIL PROFILES

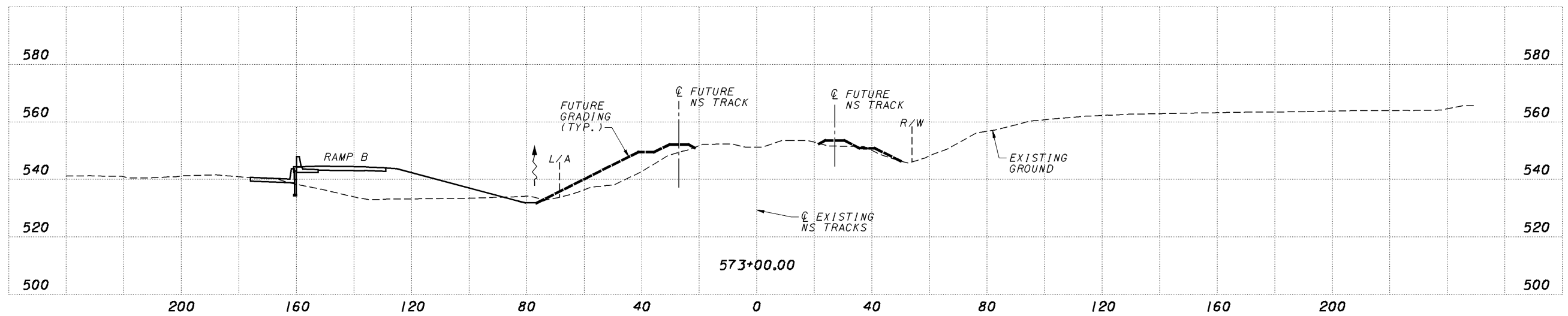
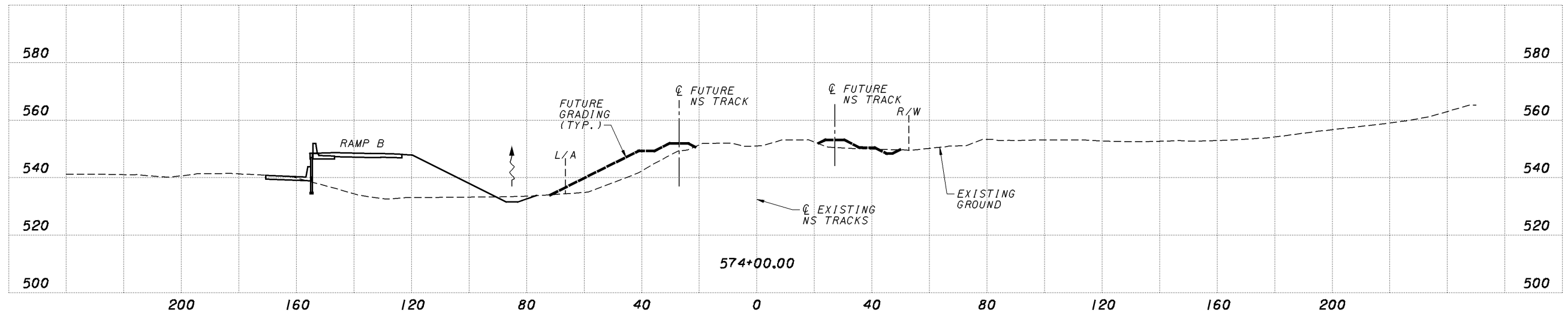
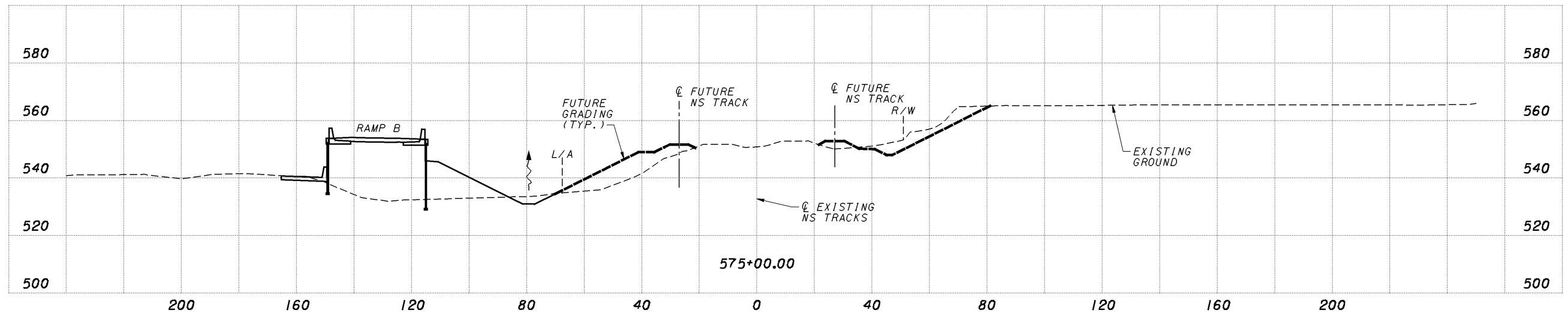
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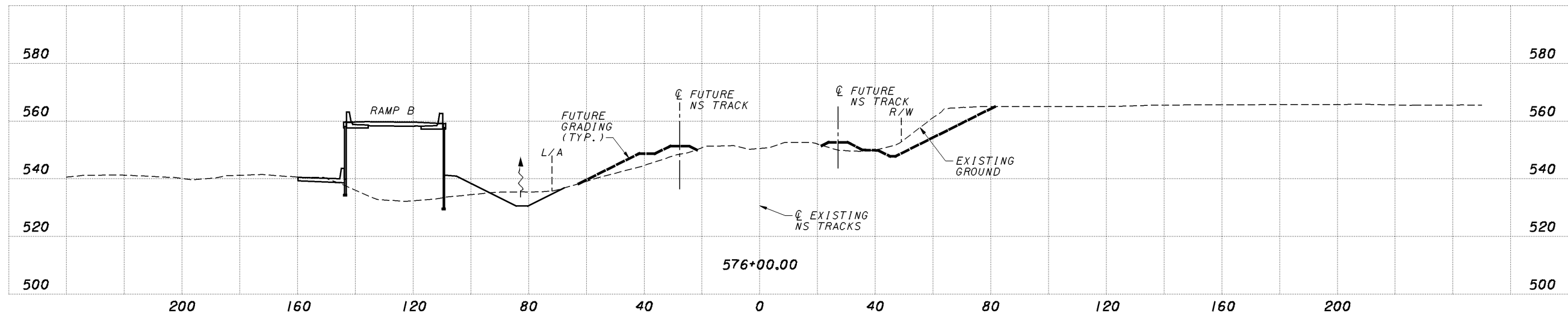
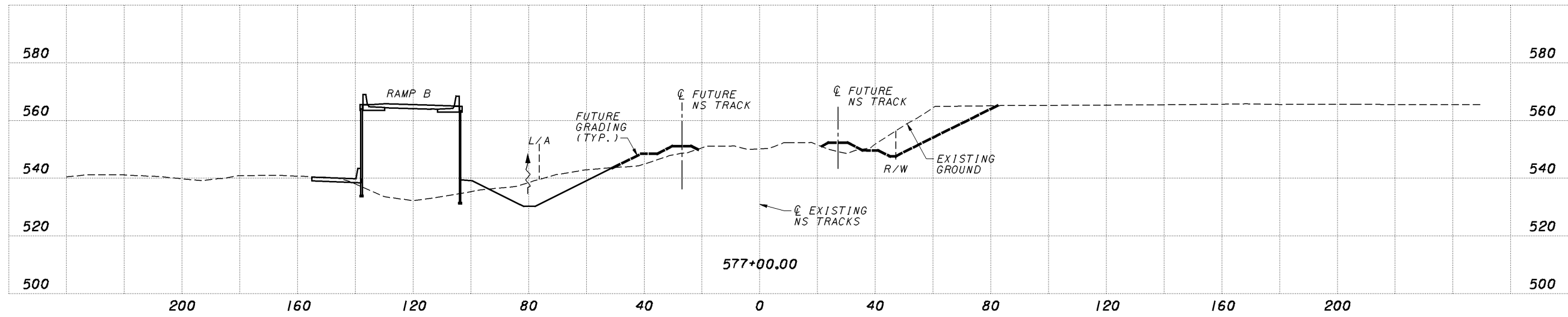
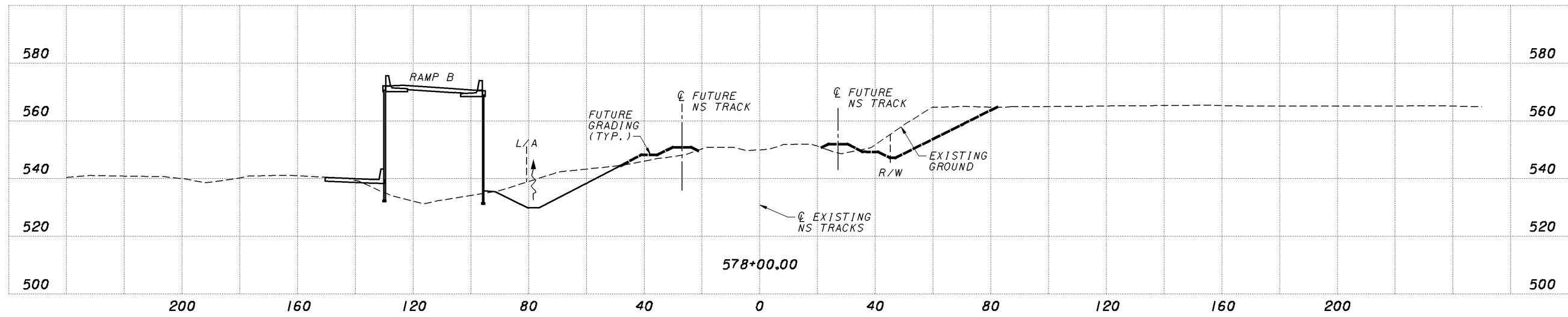
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DRAWN	JBA	REVISOR	
REVIEWED	VKN	STRUCTURE FILE NUMBER	
DATE	11/07		

RAILROAD CROSS SECTIONS
 573+00.00 TO 575+00.00

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 PID 79977



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CHECKED	REVISED	STRUCTURE FILE NUMBER	
SKT			

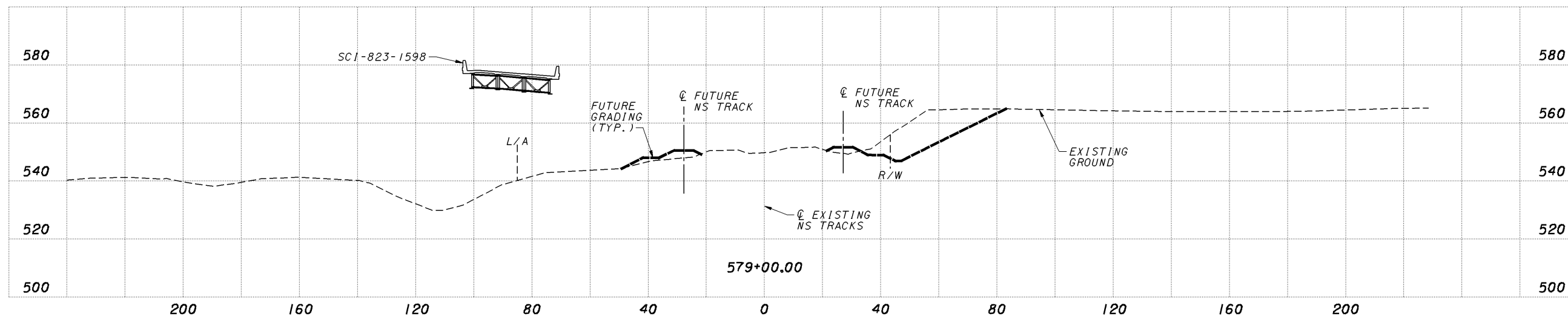
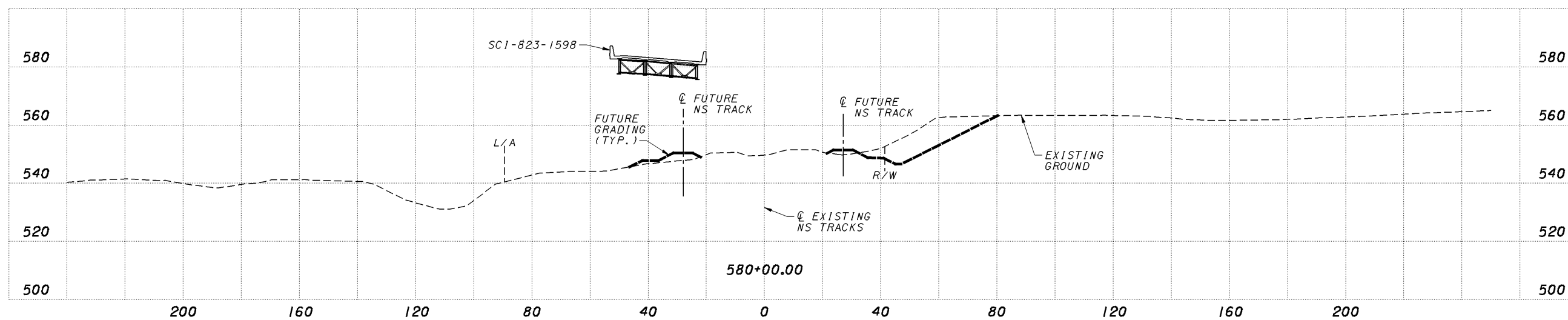
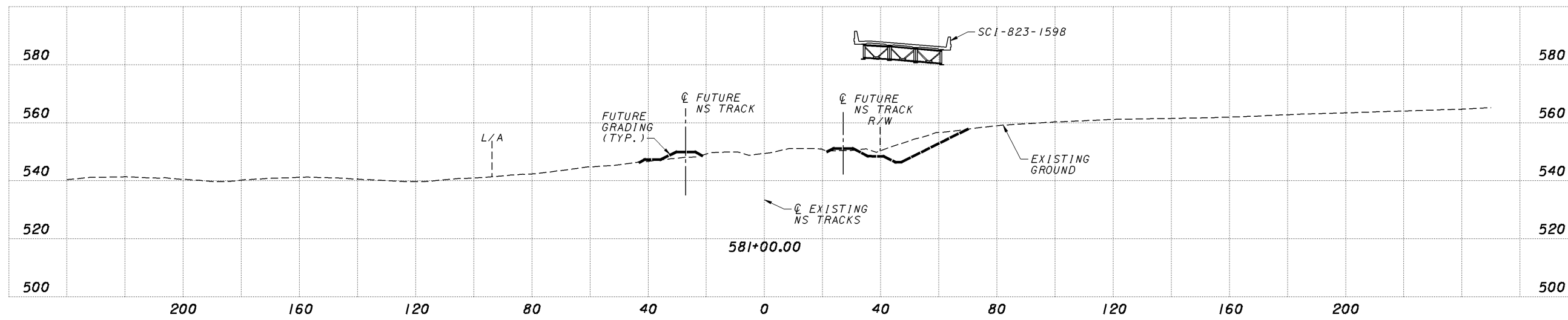
RAILROAD CROSS SECTIONS
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SCI-823-10.13
PID 79977

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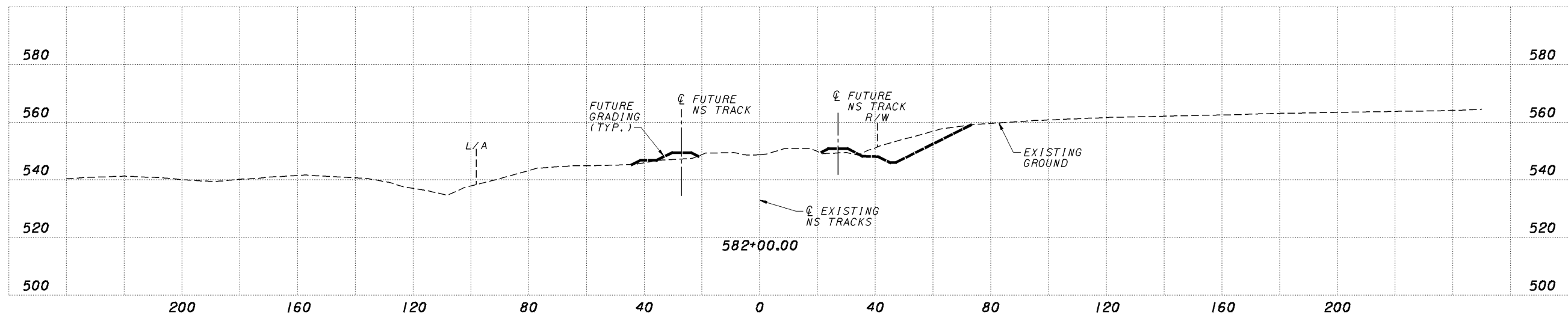
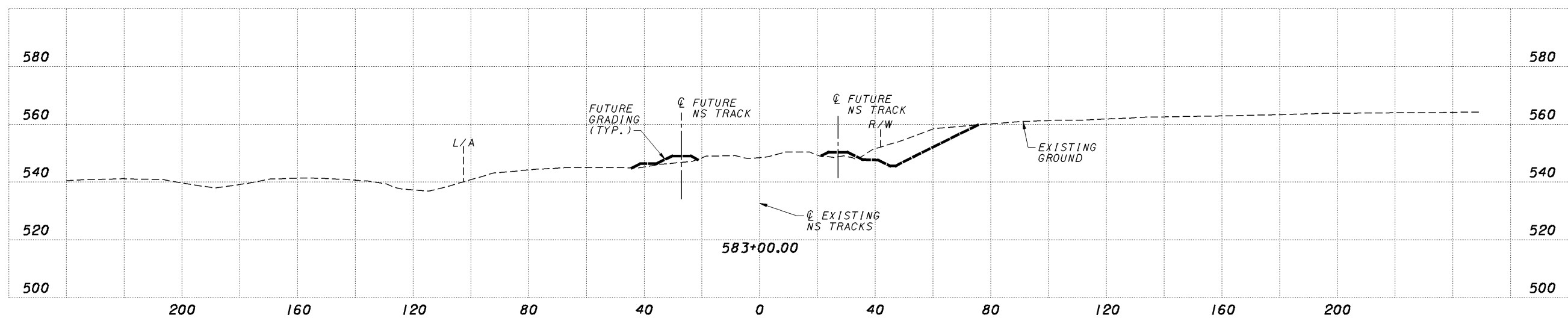
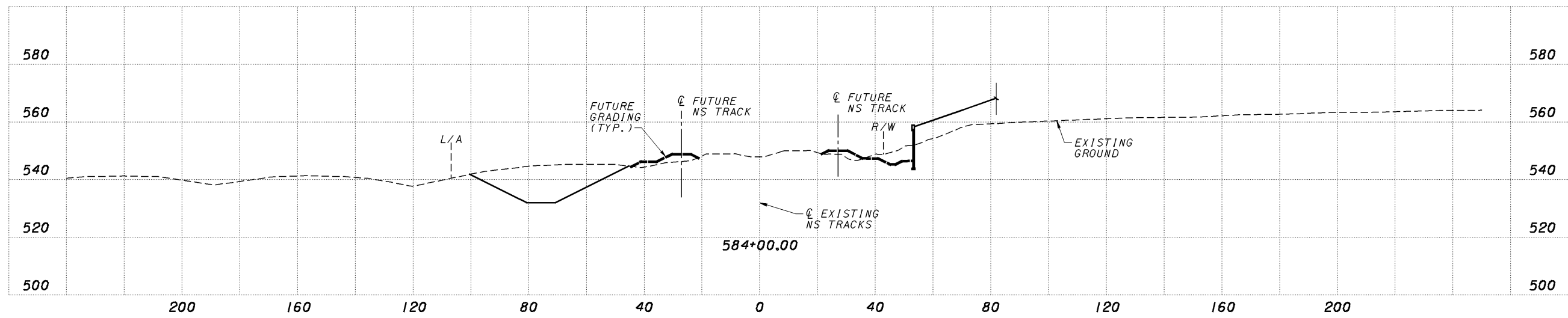
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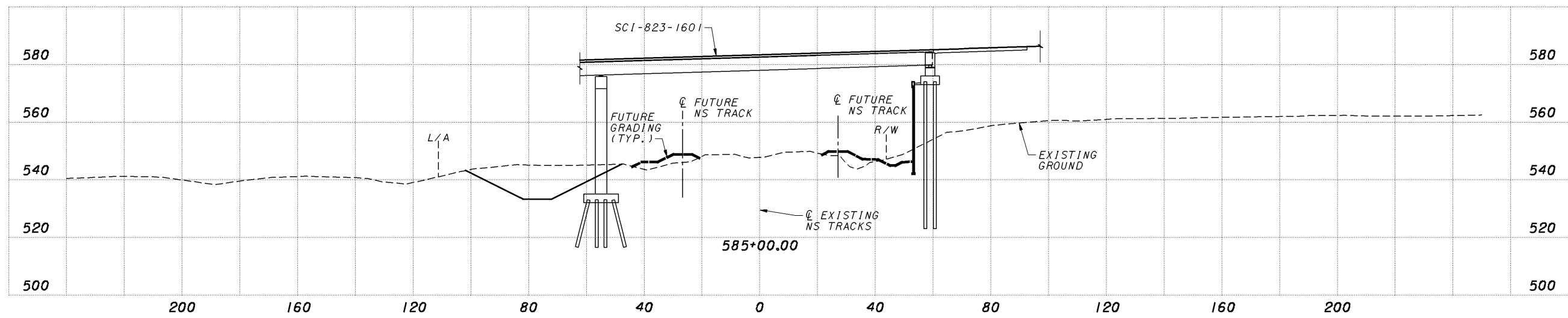
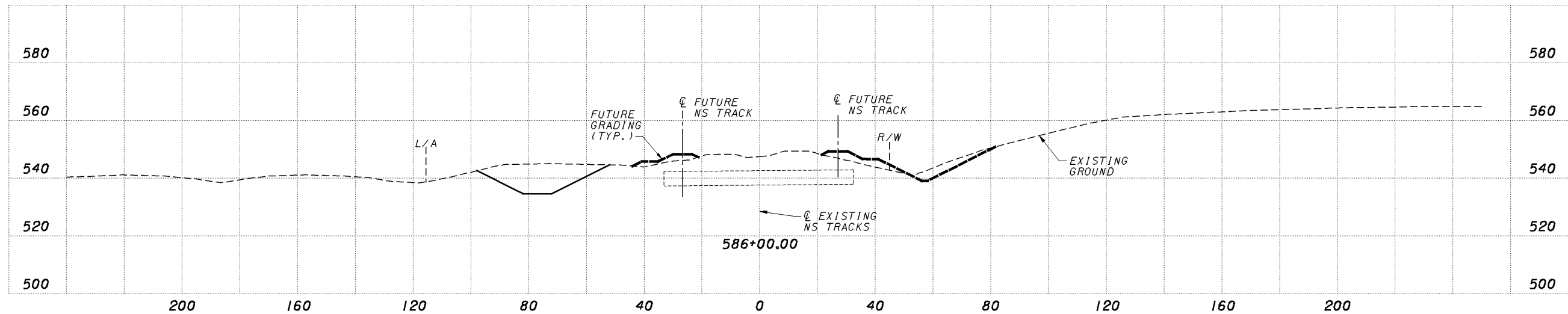
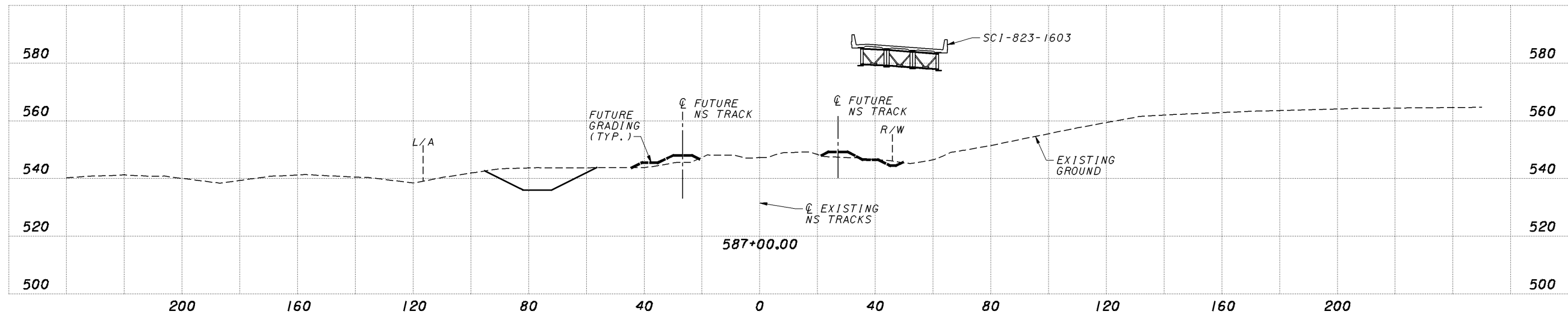
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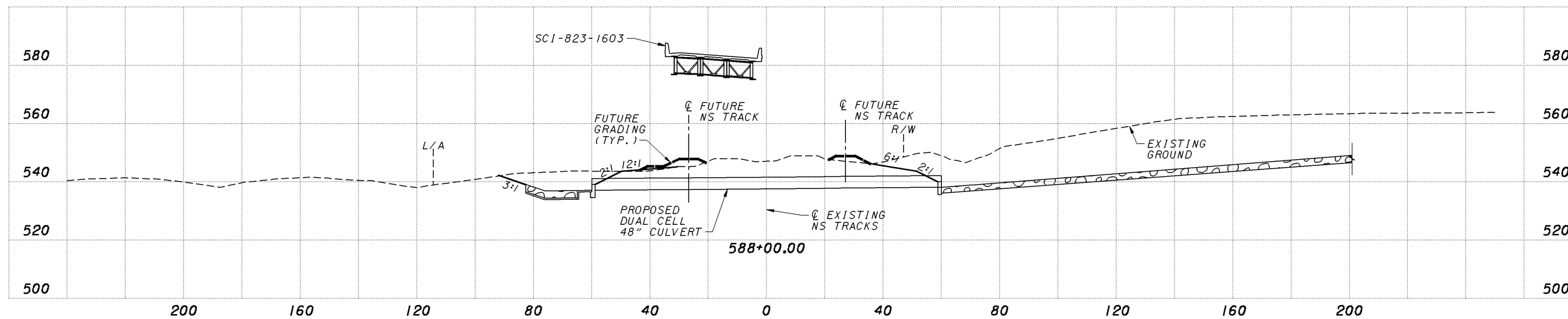
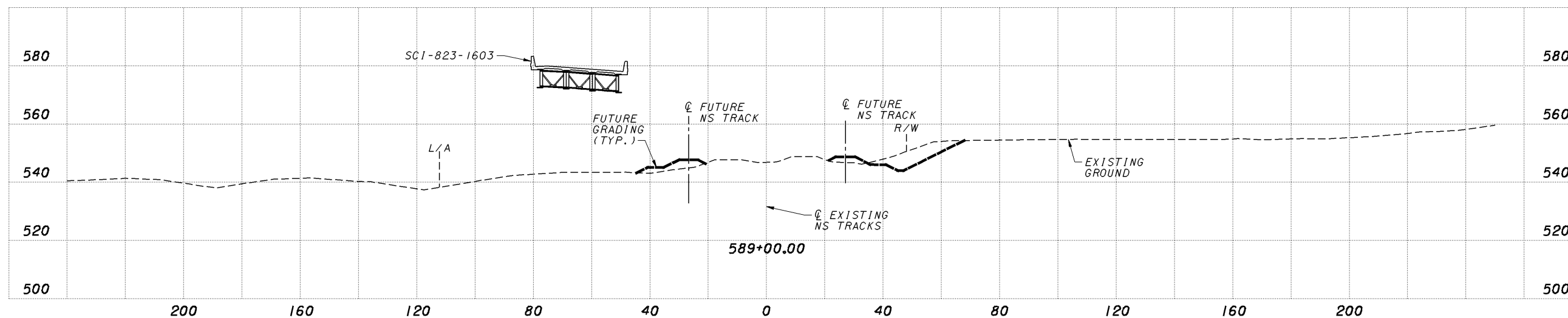
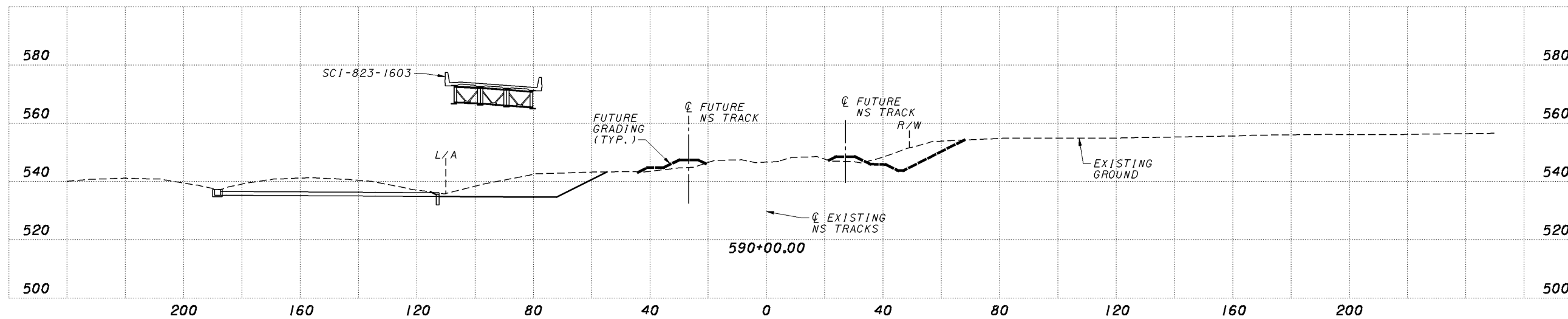
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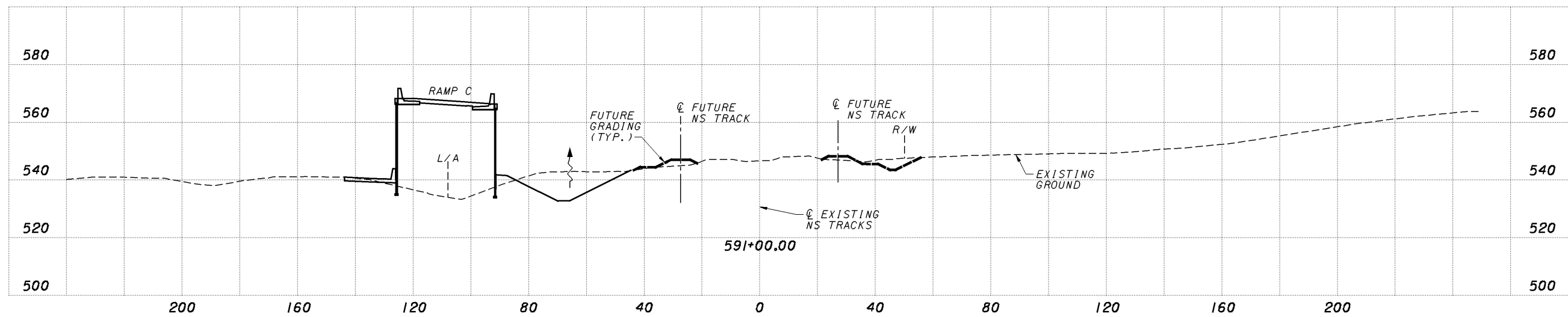
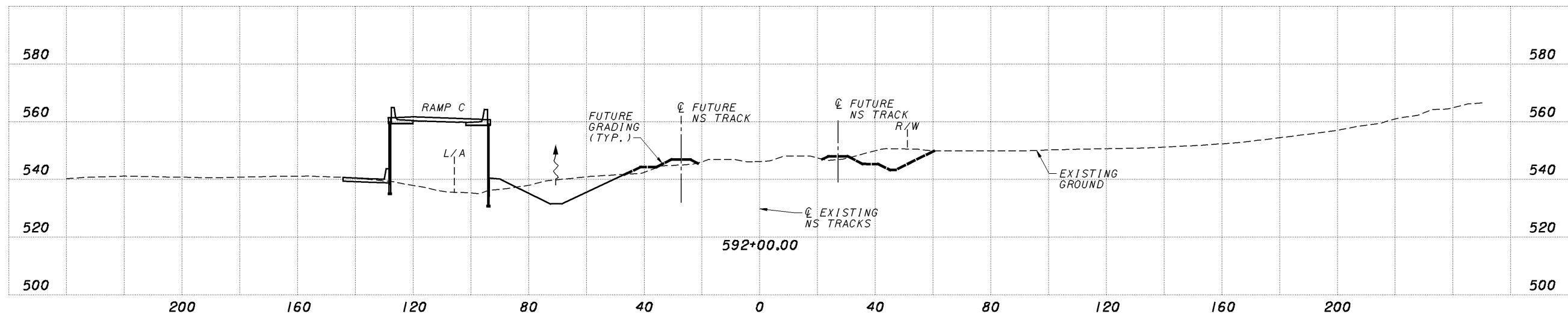
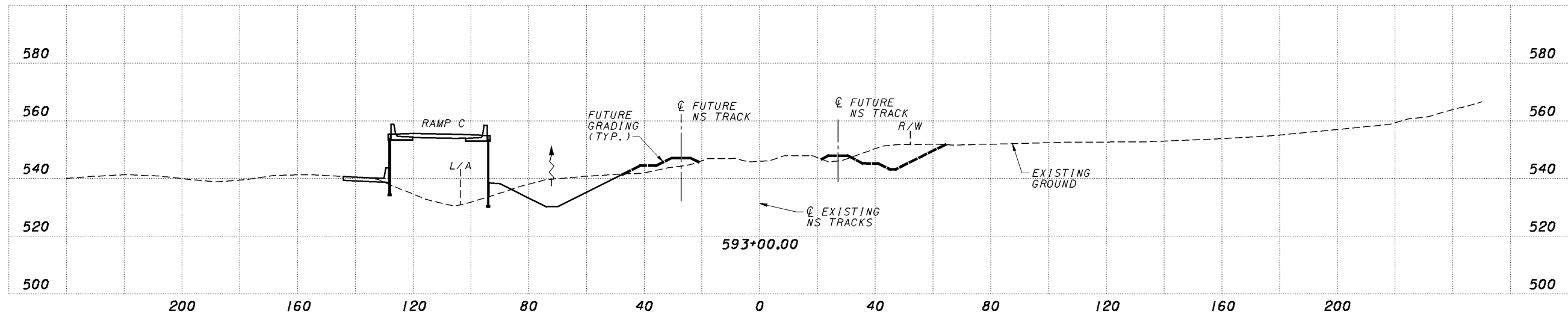


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SKT		REVISED	

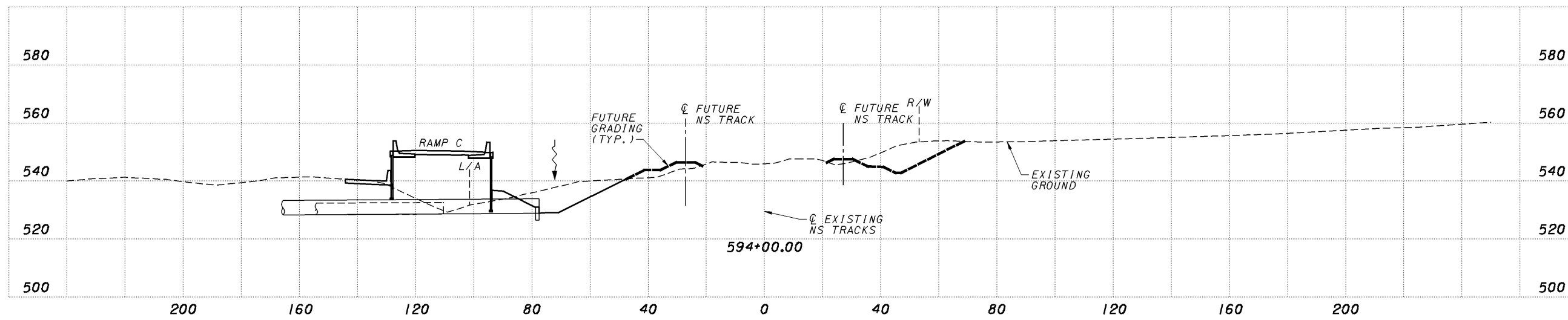
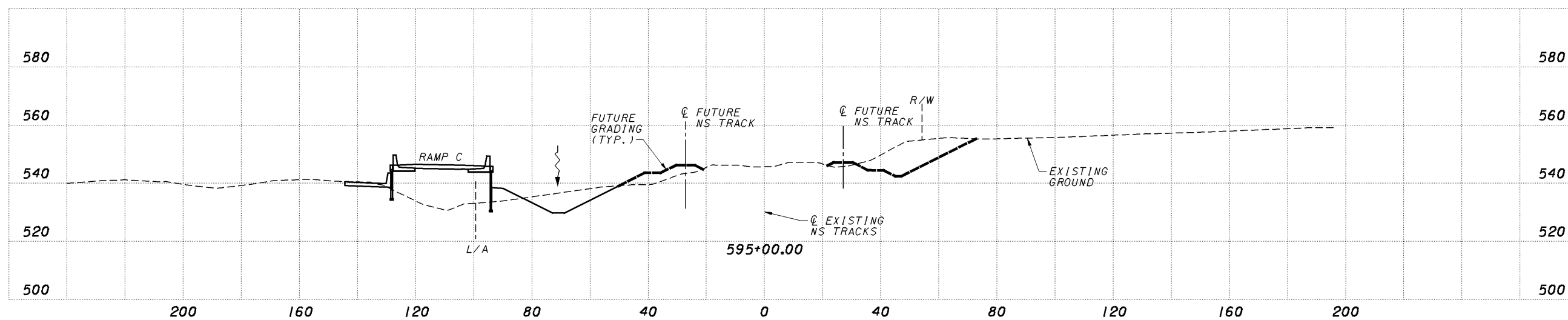
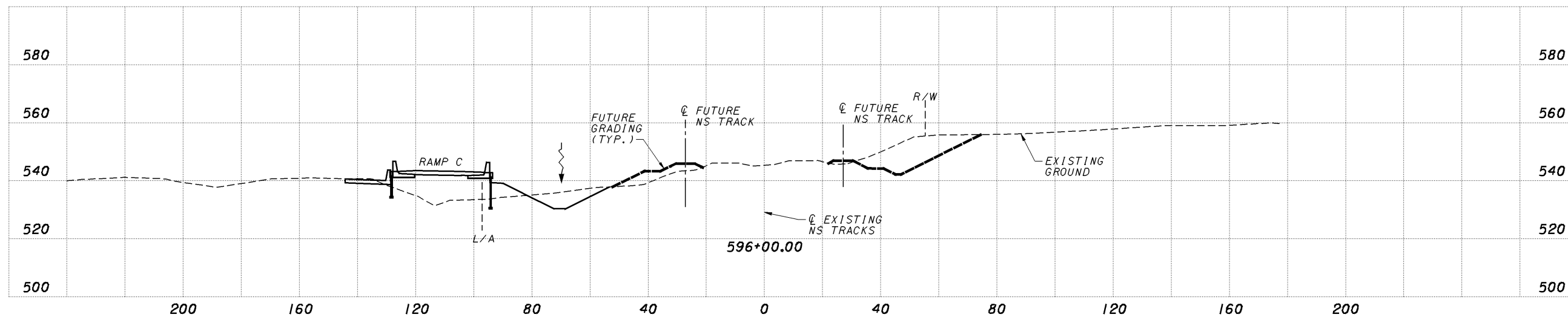
RAILROAD CROSS SECTIONS
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PID 79977

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CHECKED	REVISED	STRUCTURE FILE NUMBER	
SKT			

RAILROAD CROSS SECTIONS
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