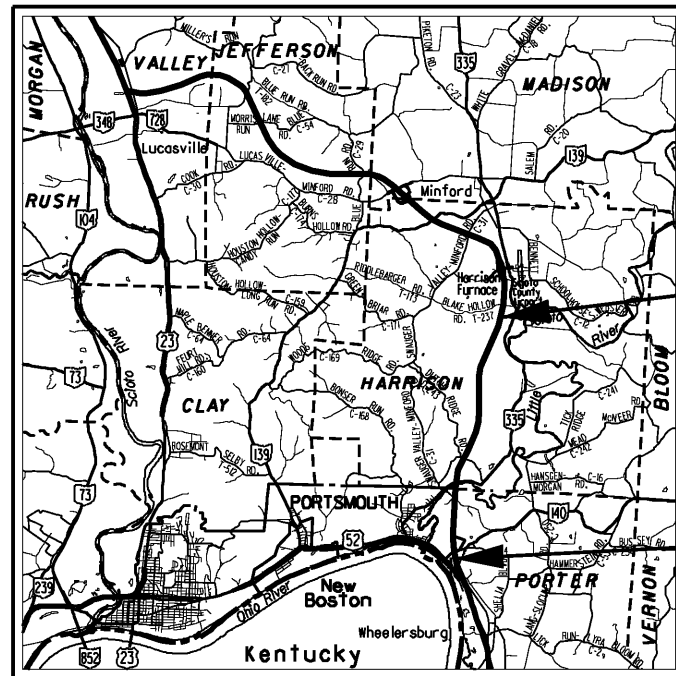


STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

**SCI-823-0.00**

CITY OF PORTSMOUTH  
PORTER & HARRISON TOWNSHIPS  
SCIOTO COUNTY

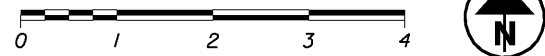
**STAGE 1  
SUBMISSION**



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: 614-336-8540  
www.transystems.com

ENGINEERS SEAL:

SIGNED: \_\_\_\_\_  
DATE: \_\_\_\_\_

END PROJECT  
STA. 352+00.00  
SLM = 6.67

BEGIN PROJECT  
STA. 54+11.25  
SLM = 1.02

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PROJECT DESCRIPTION

CONSTRUCTION OF 5.65 MILES OF FOUR LANE LIMITED ACCESS HIGHWAY (SR823) FROM THE US52 INTERCHANGE TO SOUTH OF THE TR234 INTERCHANGE; INTERCHANGES AT US52 AND SRI40; SR823 BRIDGES OVER SRI40 (WEBSTER STREET), CSXT, TR248 (SLOCUM AVENUE) AND SR335 & LITTLE SCIOTO RIVER; US52 RAMP A BRIDGE OVER CR503 (OHIO RIVER ROAD); US52 RAMP B BRIDGE OVER US52 & CR503.

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

FEDERAL PROJECT NO.

PID NO. 77366

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT  
CSXT & NS

SCI-823-0.00



**DESIGN EXCEPTIONS**

DESIGN FEATURE APPROVAL DATE SHEET NO.  
  
NONE

**DESIGN DESIGNATION SR823  
(US52 TO SR140 INTERCHANGE)**

CURRENT ADT (2010) 13,400  
DESIGN YEAR ADT (2030) 21,000  
DESIGN HOURLY VOLUME (2030) 2100  
DIRECTIONAL DISTRIBUTION 55%  
TRUCKS (24 HOUR B&C) 14%  
T<sub>D</sub> 7%  
DESIGN SPEED 70 MPH  
LEGAL SPEED 65 MPH  
DESIGN FUNCTIONAL CLASSIFICATION RURAL PRINCIPAL ARTERIAL

**DESIGN DESIGNATION SR823 (SR140  
INTERCHANGE TO TR234 INTERCHANGE)**

CURRENT ADT (2010) 21,200  
DESIGN YEAR ADT (2030) 31,200  
DESIGN HOURLY VOLUME (2030) 3120  
DIRECTIONAL DISTRIBUTION 55%  
TRUCKS (24 HOUR B&C) 14%  
T<sub>D</sub> 7%  
DESIGN SPEED 70 MPH  
LEGAL SPEED 65 MPH  
DESIGN FUNCTIONAL CLASSIFICATION RURAL PRINCIPAL ARTERIAL

**DESIGN DESIGNATION US52**

CURRENT ADT (2010) 28,400  
DESIGN YEAR ADT (2030) 39,400  
DESIGN HOURLY VOLUME (2030) 3940  
DIRECTIONAL DISTRIBUTION 55%  
TRUCKS (24 HOUR B&C) 10%  
DESIGN SPEED 60 MPH  
LEGAL SPEED 55 MPH  
DESIGN FUNCTIONAL CLASSIFICATION URBAN PRINCIPAL ARTERIAL

**DESIGN DESIGNATION SR140 (WEBSTER STREET)**

CURRENT ADT (2010) 16,400  
DESIGN YEAR ADT (2030) 20,600  
DESIGN HOURLY VOLUME (2030) 2060  
DIRECTIONAL DISTRIBUTION 55%  
TRUCKS (24 HOUR B&C) 5%  
DESIGN SPEED 45 MPH  
LEGAL SPEED 45 MPH  
DESIGN FUNCTIONAL CLASSIFICATION URBAN MINOR ARTIERIAL

**DESIGN DESIGNATION TR248 (SLOCUM AVENUE)**

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 25 MPH  
DESIGN FUNCTIONAL CLASSIFICATION URBAN LOCAL

**DESIGN DESIGNATION PERSHING AVENUE  
NORTH & SOUTH**

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 25 MPH  
DESIGN FUNCTIONAL CLASSIFICATION URBAN LOCAL

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS

CALCULATED  
CAS  
CHECKED  
RW

**DESIGN DESIGNATION**

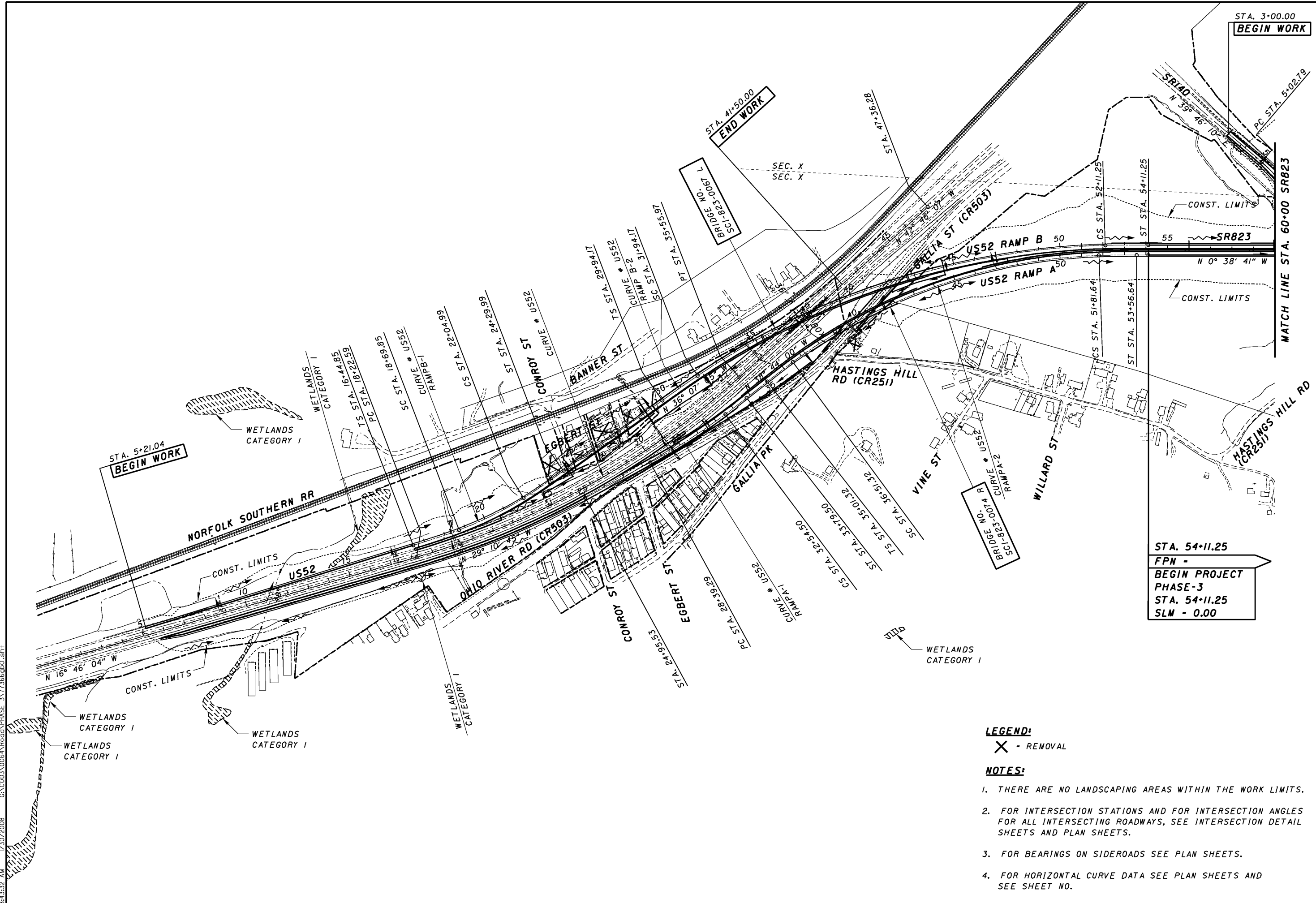
**SCI-823-0.00**

2

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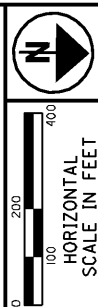


STA. 5+21.04  
BEGIN WORK

STA. 41+50.00  
END WORK

STA. 3+00.00  
BEGIN WORK

STA. 54+11.25  
 FPN -  
 BEGIN PROJECT  
 PHASE-3  
 STA. 54+11.25  
 SLM - 0.00



**SCHEMATIC PLAN - SR823**  
**STA. 54+11.25 TO STA. 60+00.00**

**SCI-823-0.00**

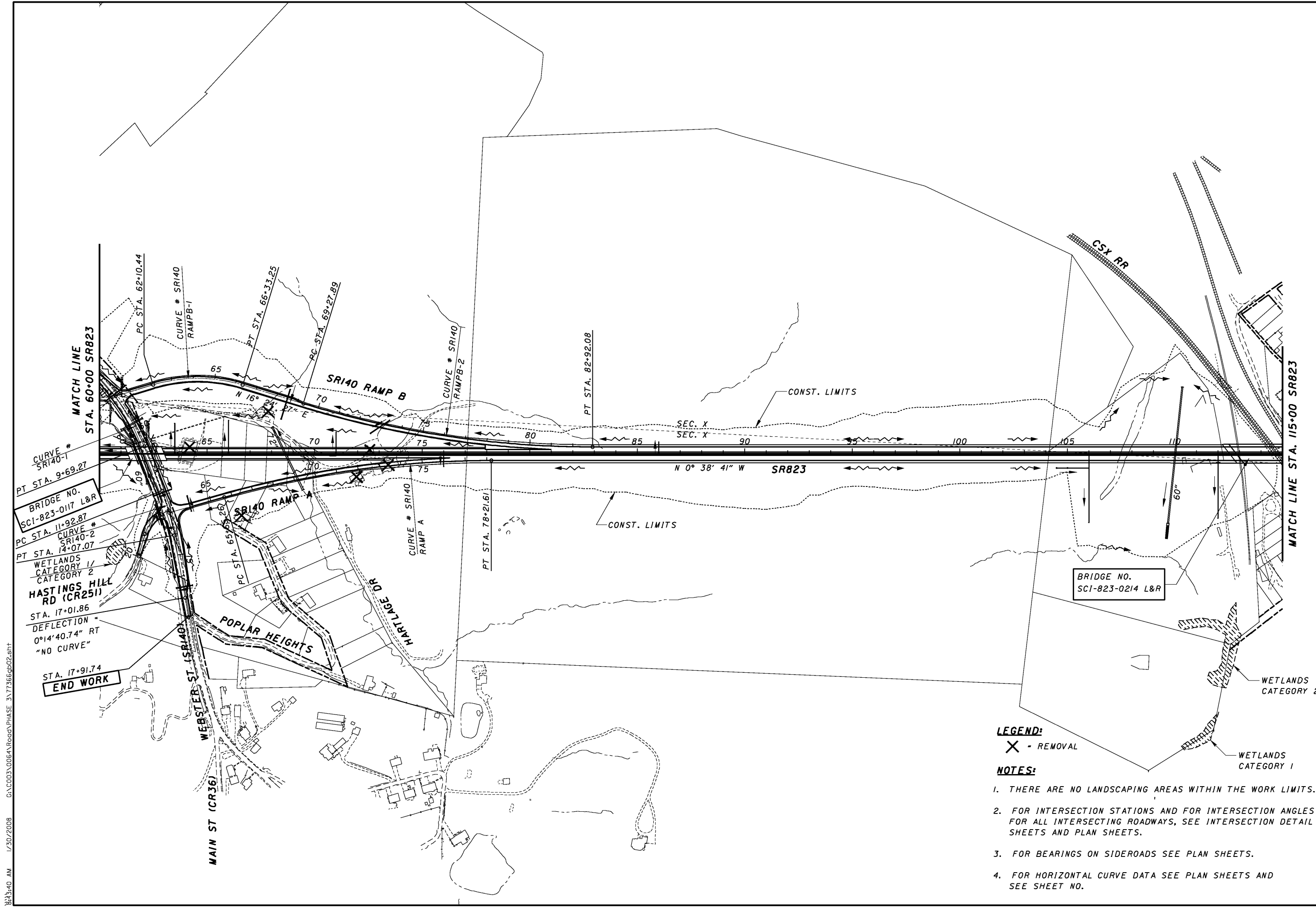
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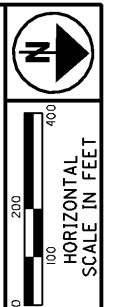
X - REMOVAL

**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.



1/30/2008 11:30:40 AM G:\C003\0064\Road\PHASE\_3\1713656b02.sht



**SCHEMATIC PLAN - SR823**  
**STA. 60+00.00 TO STA. 115+00.00**

**SCI-823-0.00**

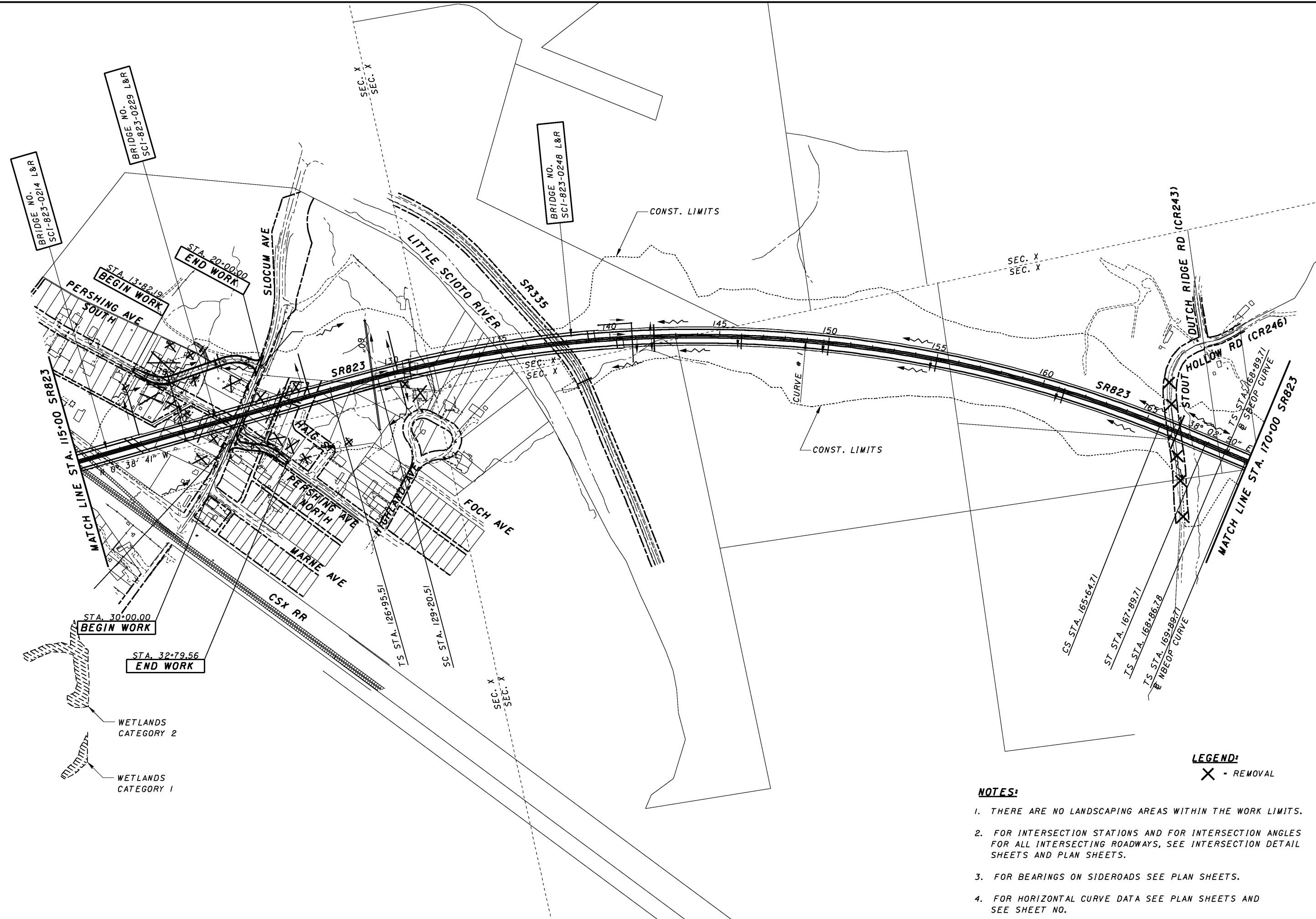
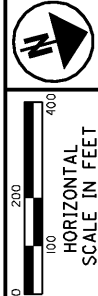
**LEGEND:**

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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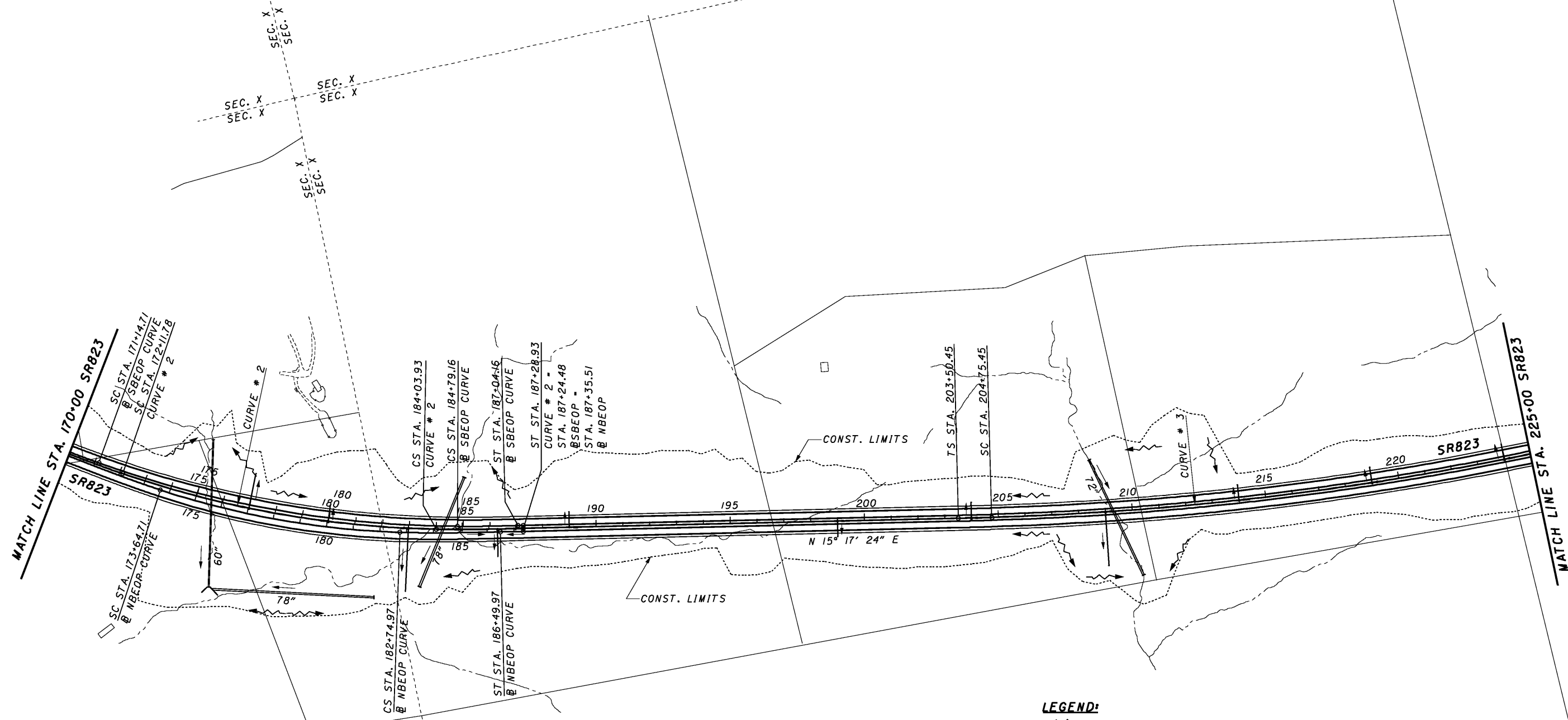
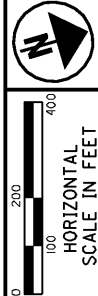


**LEGEND:**  
X - REMOVAL

- 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.

**SCI-823-0.00**  
**SCHEMATIC PLAN - SR823**  
**STA. 115+00.00 TO STA. 170+00.00**

**SCI-823-0.00**



**LEGEND:**

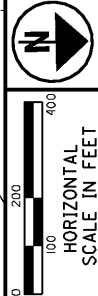
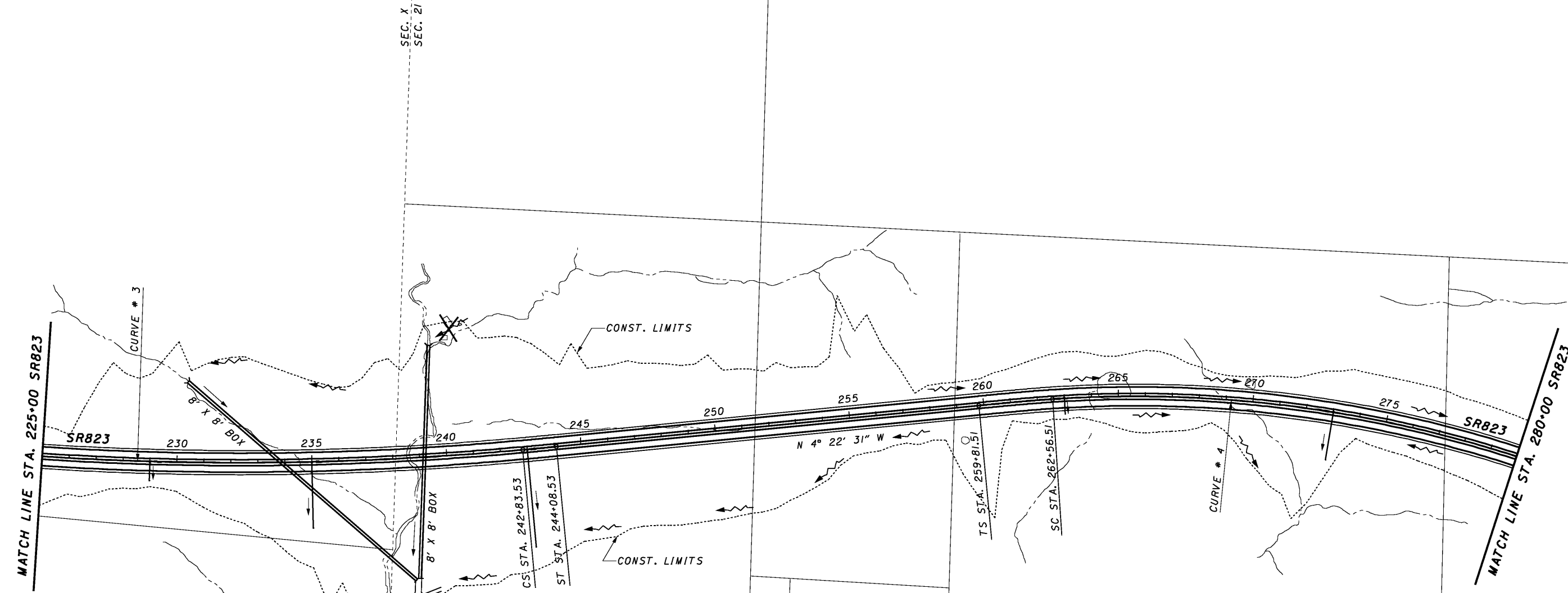
X - REMOVAL

**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.

**SCHEMATIC PLAN - SR823  
STA. 170+00.00 TO STA. 225+00.00**

**SCI-823-0.00**



SCHEMATIC PLAN - SR823  
STA. 225+00.00 TO STA. 280+00.00

SCI-823-0.00

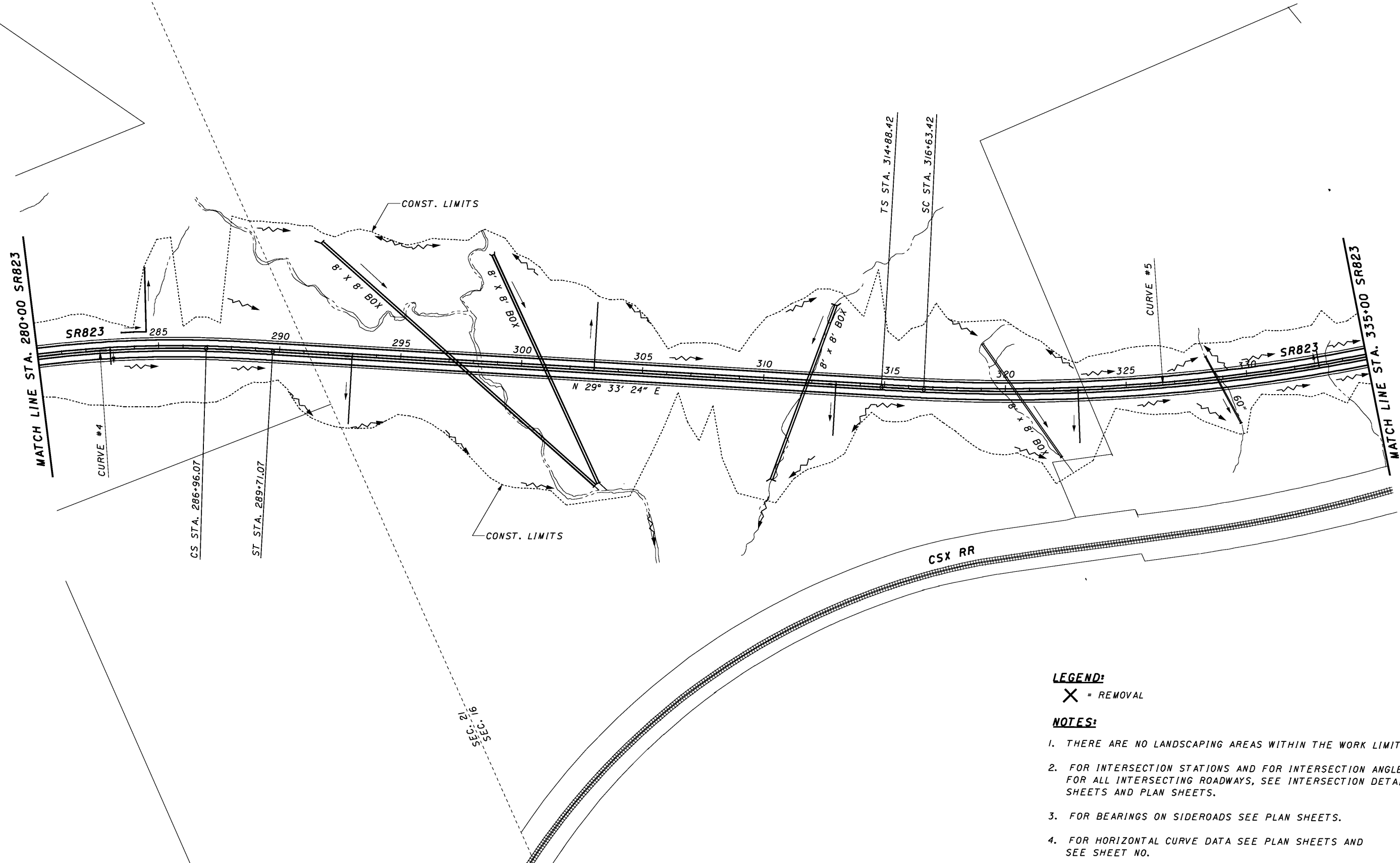
**LEGEND:**

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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**LEGEND:**

X = REMOVAL

**NOTES:**

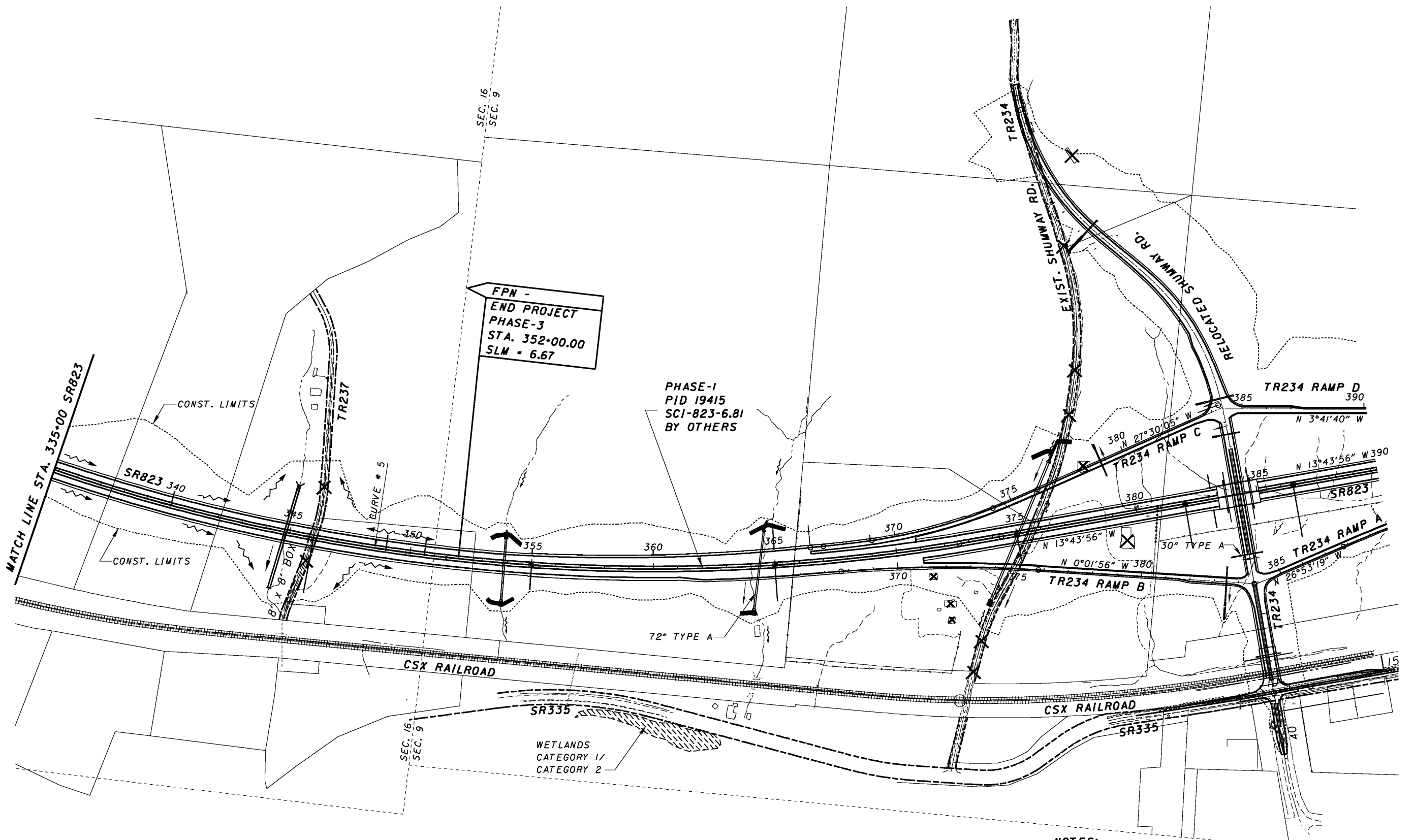
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2. FOR INTERSECTION STATIONS AND FOR INTERSECTION ANGLES FOR ALL INTERSECTING ROADWAYS, SEE INTERSECTION DETAIL SHEETS AND PLAN SHEETS.
3. FOR BEARINGS ON SIDEROADS SEE PLAN SHEETS.
4. FOR HORIZONTAL CURVE DATA SEE PLAN SHEETS AND SEE SHEET NO.



**SCHEMATIC PLAN - SR823  
STA. 280+00.00 TO STA. 335+00.00**

**SCI-823-0.00**

1/30/2008 8:24:20 AM G:\C003\0064\Road\PHASE\_3\1713656b07.sht



**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.

**LEGEND:**

X - REMOVAL



**SCHEMATIC PLAN - SR823  
STA. 335+00.00 TO STA. 352+00.00**

**SCI-823-0.00**

1/30/2008 8:45:41 AM g:\c003\0064\Road\PHASE\_3\171366g\01.sht



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

CALCULATED  
JFA

CHECKED  
RW

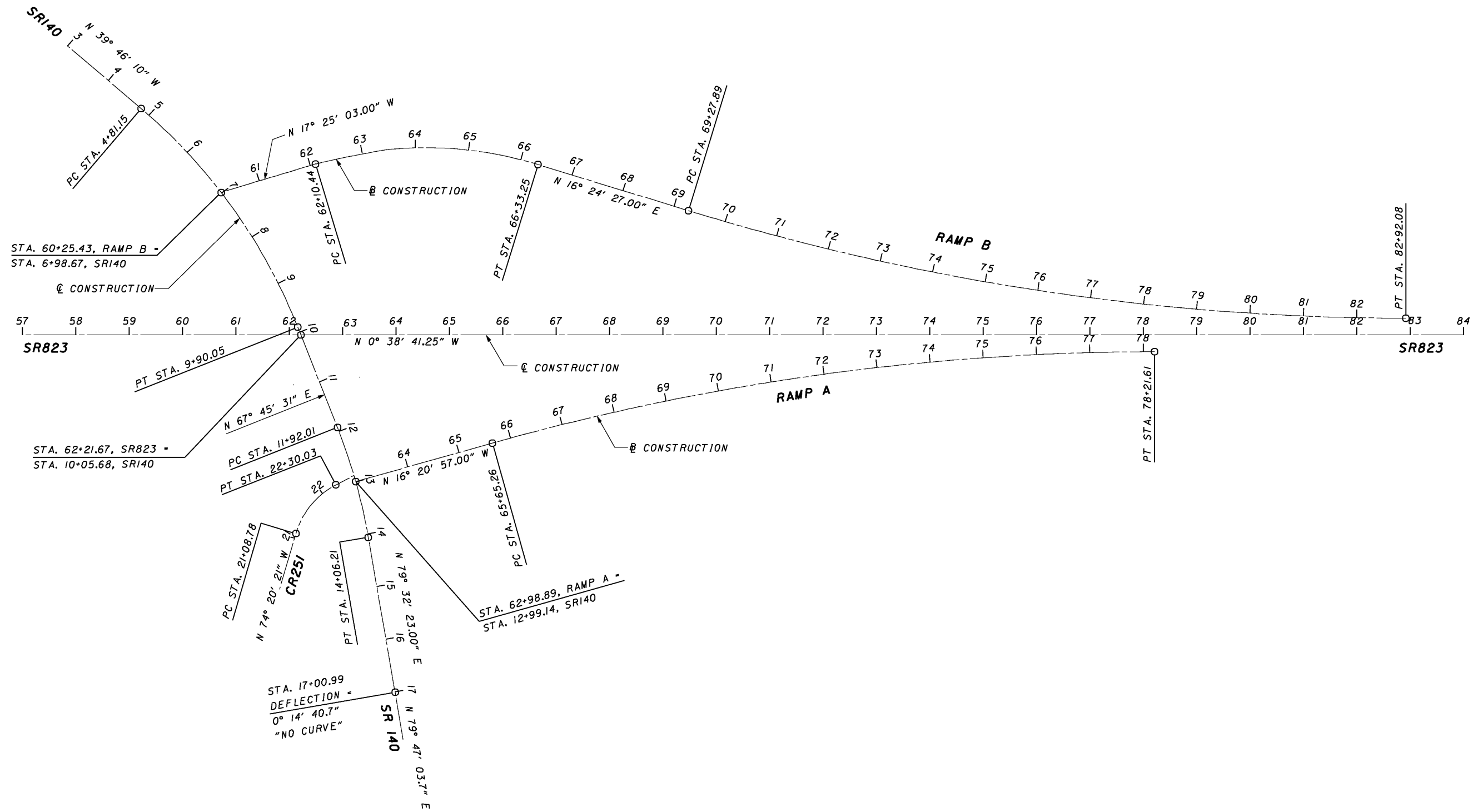
0 100 200  
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 SCALE IN FEET

GEOMETRIC LAYOUT  
 US52 / SR823 INTERCHANGE

SCI-823-0.00



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CALCULATED  
JFA  
CHECKED  
RW

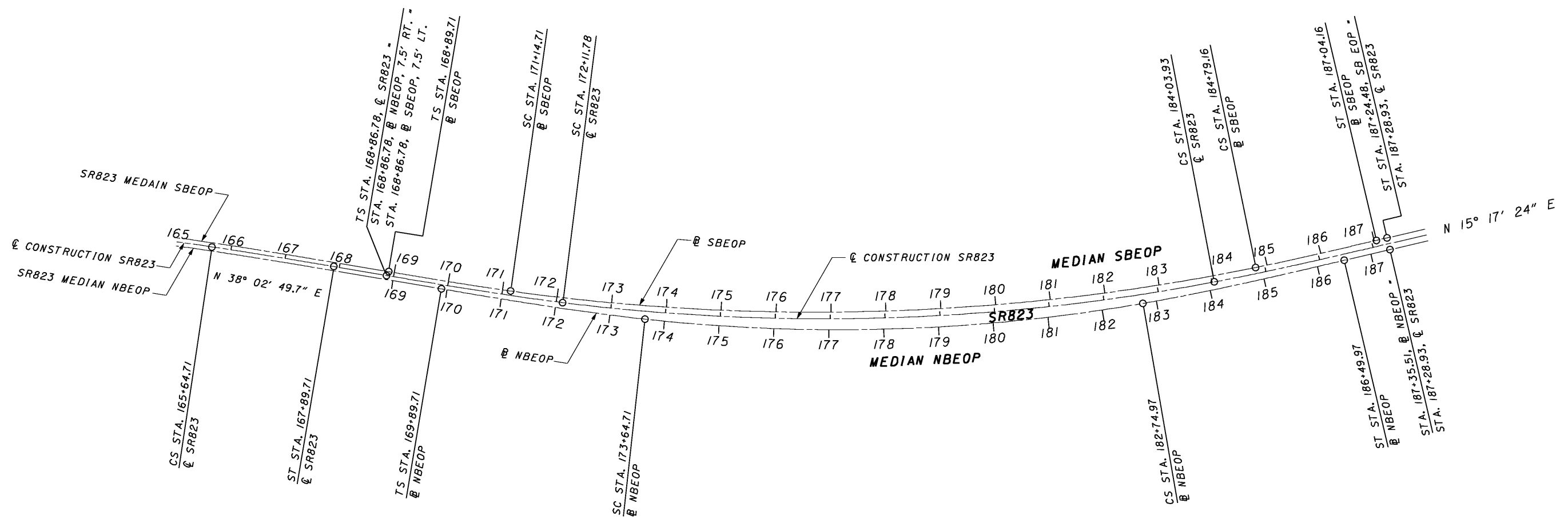
**GEOMETRIC LAYOUT  
SR140 / SR823 INTERCHANGE**

**SCI-823-0.00**



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

1/30/2008 G:\C003\0064\Road\PHASE\_3\17366g\03.sht

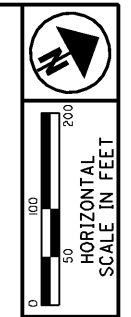


NOTES:  
 1. FOR HORIZONTAL CURVE DATA, SEE SHEET XXX  
 2. FOR SR823  $\varnothing$  STATIONING, SEE PLAN SHEETS

CALCULATED JFA	CHECKED RW
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**MEDIAN TRANSITION LAYOUT SR 823  
 STA. 165+00.00 TO STA. 188+00.00**

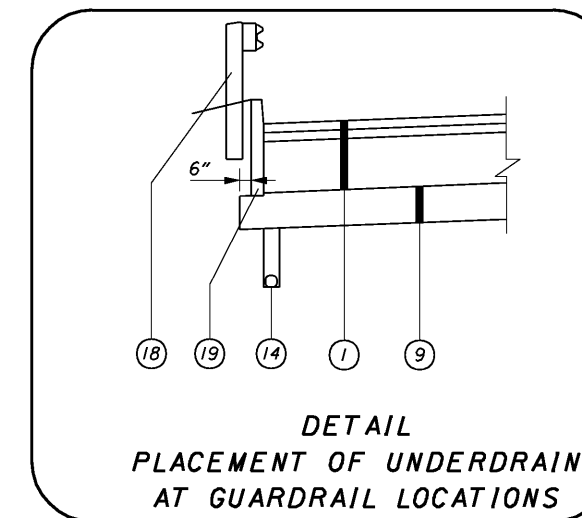
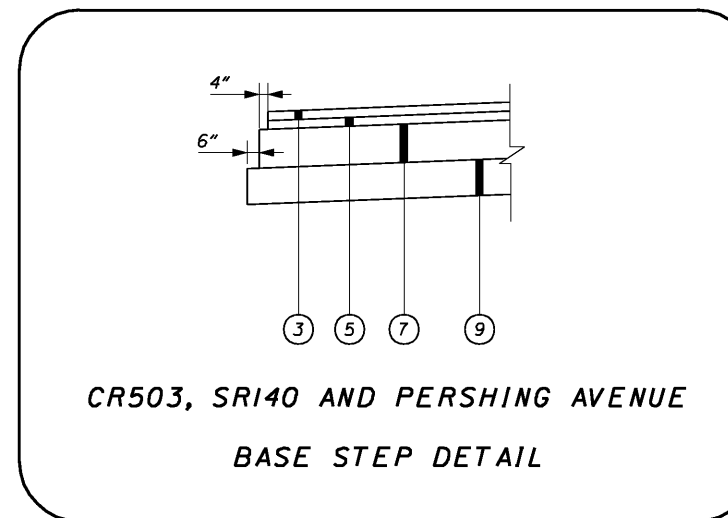
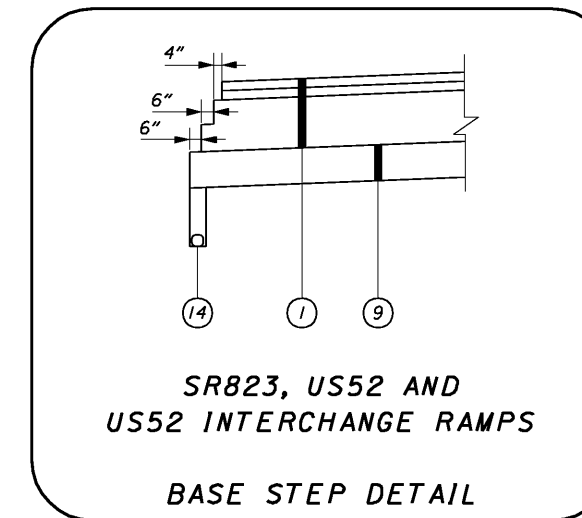
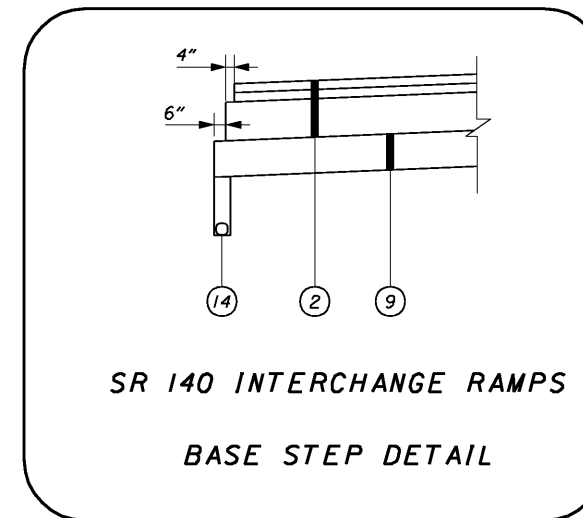
**SCI-823-0.00**





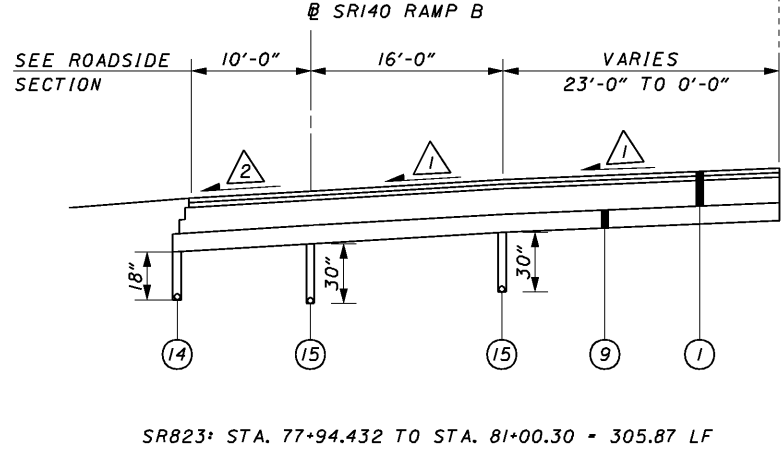
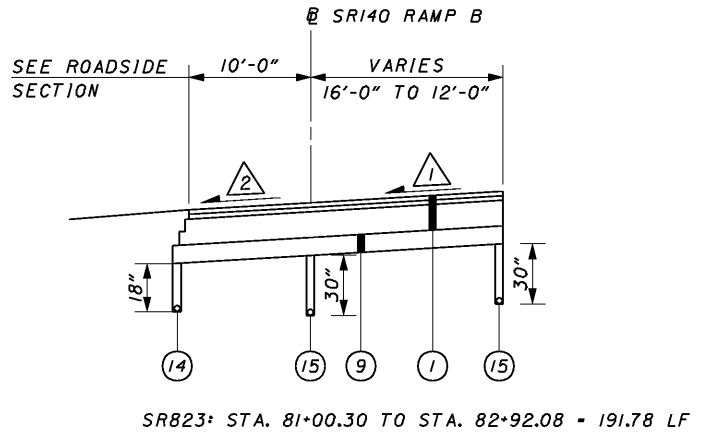
**LEGEND**

- ① ITEM 880 - ASPHALT CONCRETE (7 YEAR WARRANTY), 11.5" THICK FOR SR823, US52 AND US52 INTERCHANGE RAMPS
- ② ITEM 880 - ASPHALT CONCRETE (7 YEAR WARRANTY), 9" THICK FOR SRI40 INTERCHANGE RAMPS
- 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 COMPACTION
- 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)
- ㉚ ITEM 609 - CURB, TYPE 6

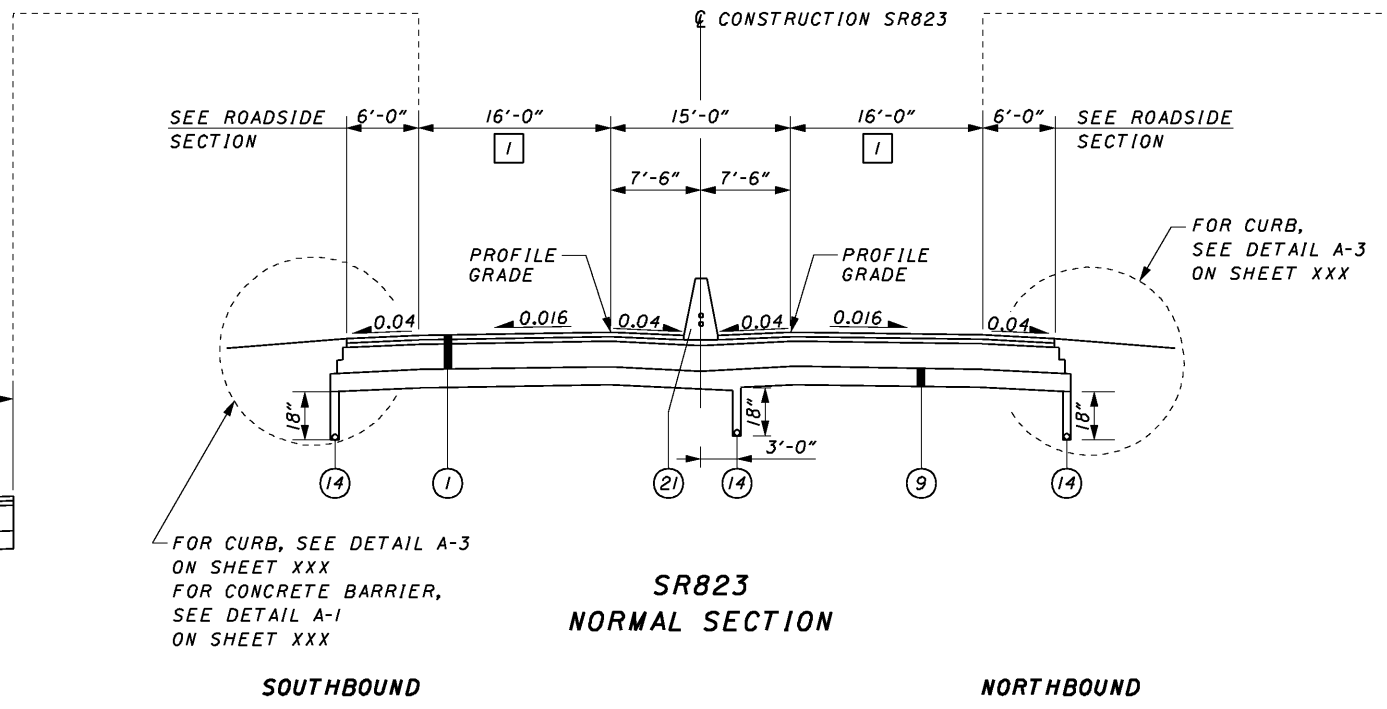


**NOTES:**

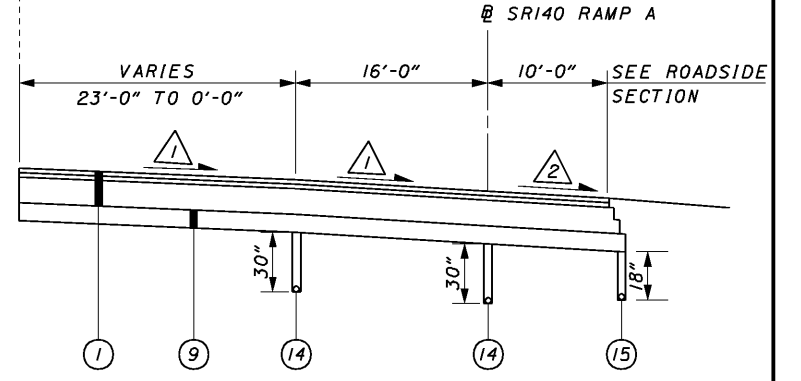
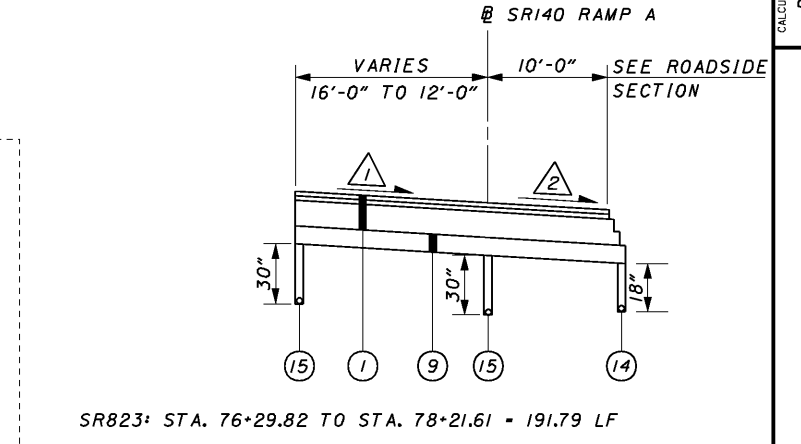
- 1. FOR GUARDRAIL LOCATIONS SEE PLAN SHEETS
- 2. FOR ROCK CUT UNDERDRAIN DETAILS SEE SHEET XXX.



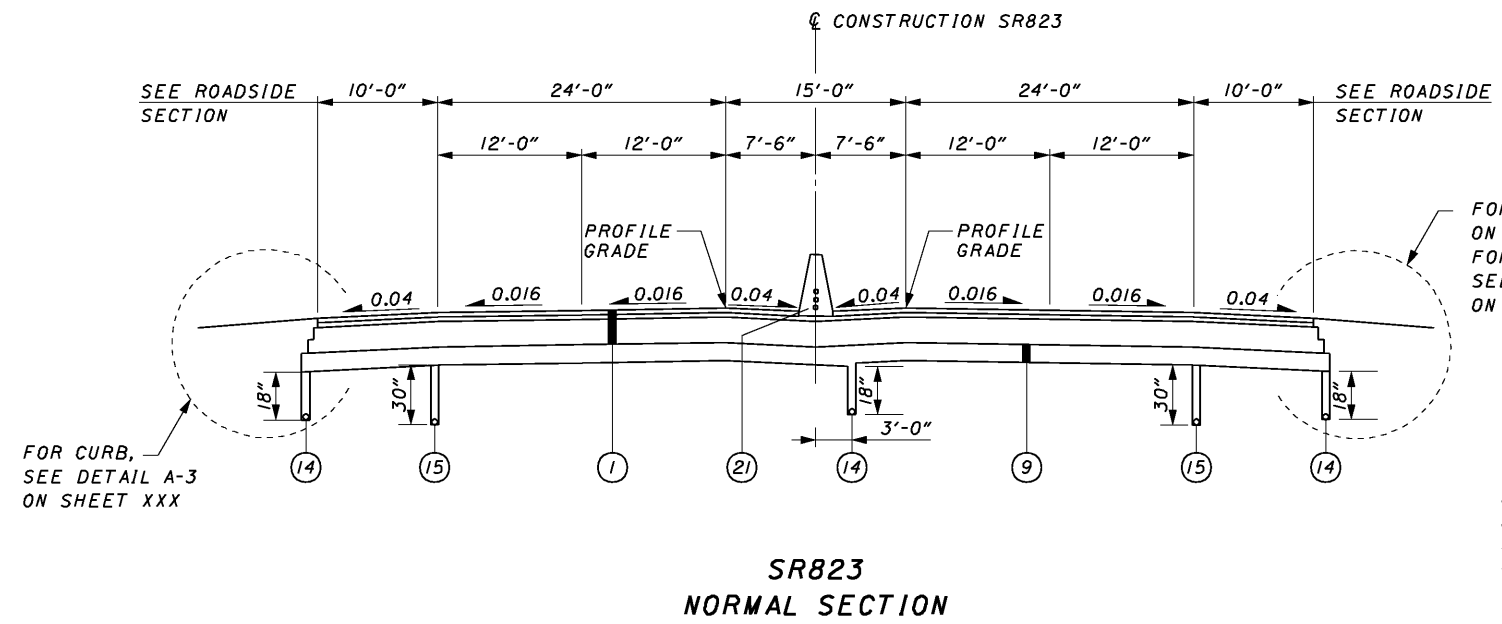
**SRI140 INTERCHANGE RAMP B  
SPEED CHANGE LANE (DECELERATION)**



**SR823  
NORMAL SECTION**



**SRI140 INTERCHANGE RAMP A  
SPEED CHANGE LANE (ACCELERATION)**



**SR823  
NORMAL SECTION**

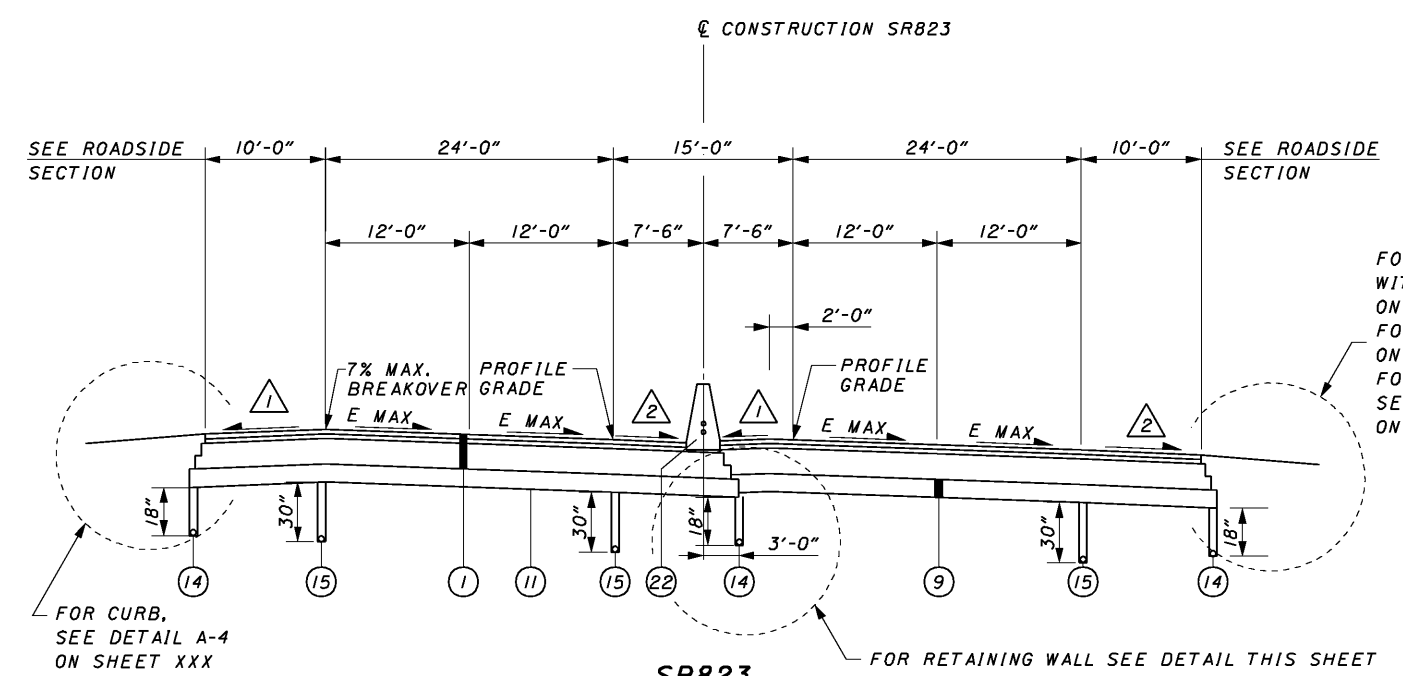
FOR CURB, SEE DETAIL A-3 ON SHEET XXX  
FOR CONCRETE BARRIER, SEE DETAIL A-2 ON SHEET XXX

**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.

- △ SLOPE VARIES, SEE PAVEMENT ELEVATION DETAIL SHEET XXX
- △ 0.04 OR RATE OF SUPERELEVATION, WHICH EVER IS GREATER.

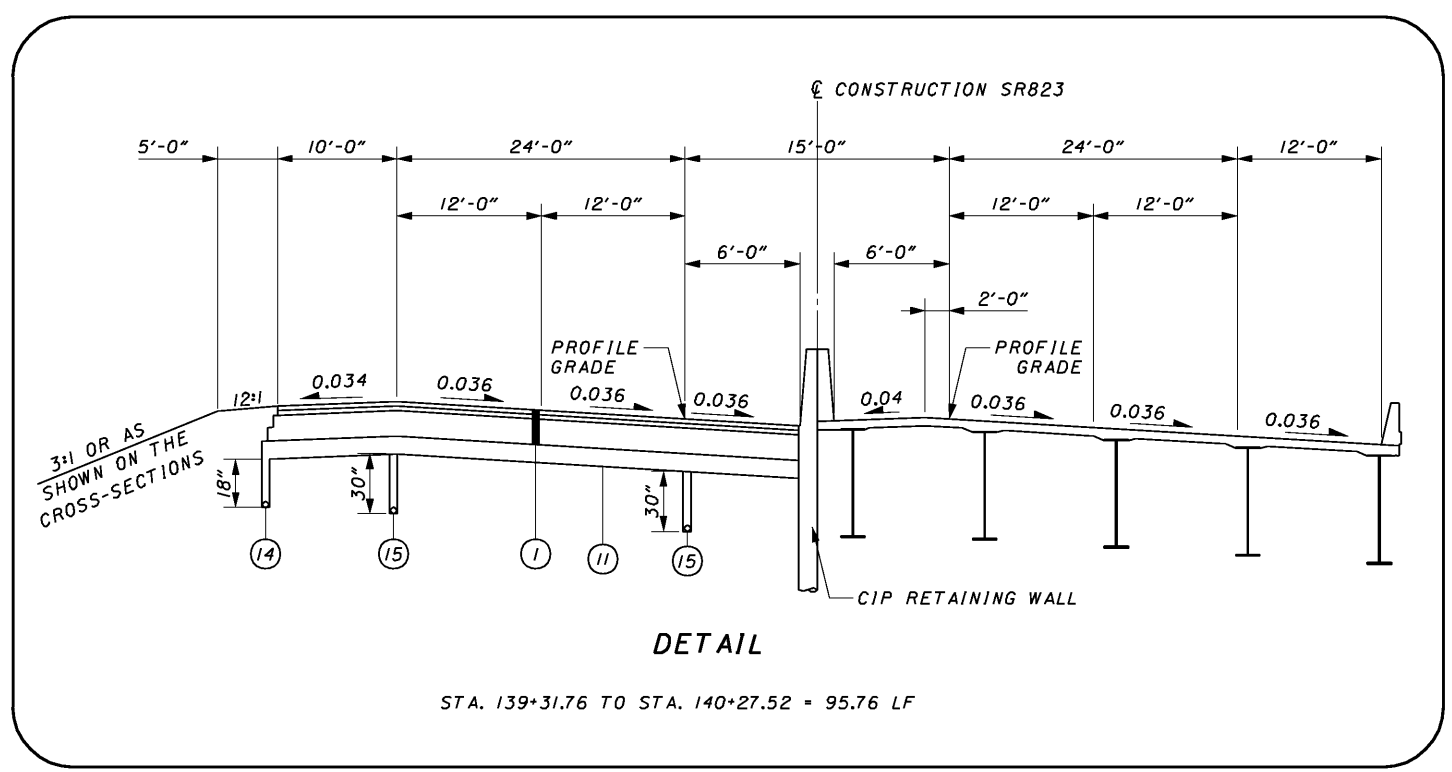
□ SEE PAVEMENT MARKING PLAN SHEET XX



FOR CONCRETE BARRIER,  
WITH NOISE WALL, SEE DETAIL A-2  
ON SHEET XXX,  
FOR CIP WALL, SEE DETAIL A-6  
ON SHEET XXX  
FOR CONCRETE BARRIER,  
SEE DETAIL A-5  
ON SHEET XXX

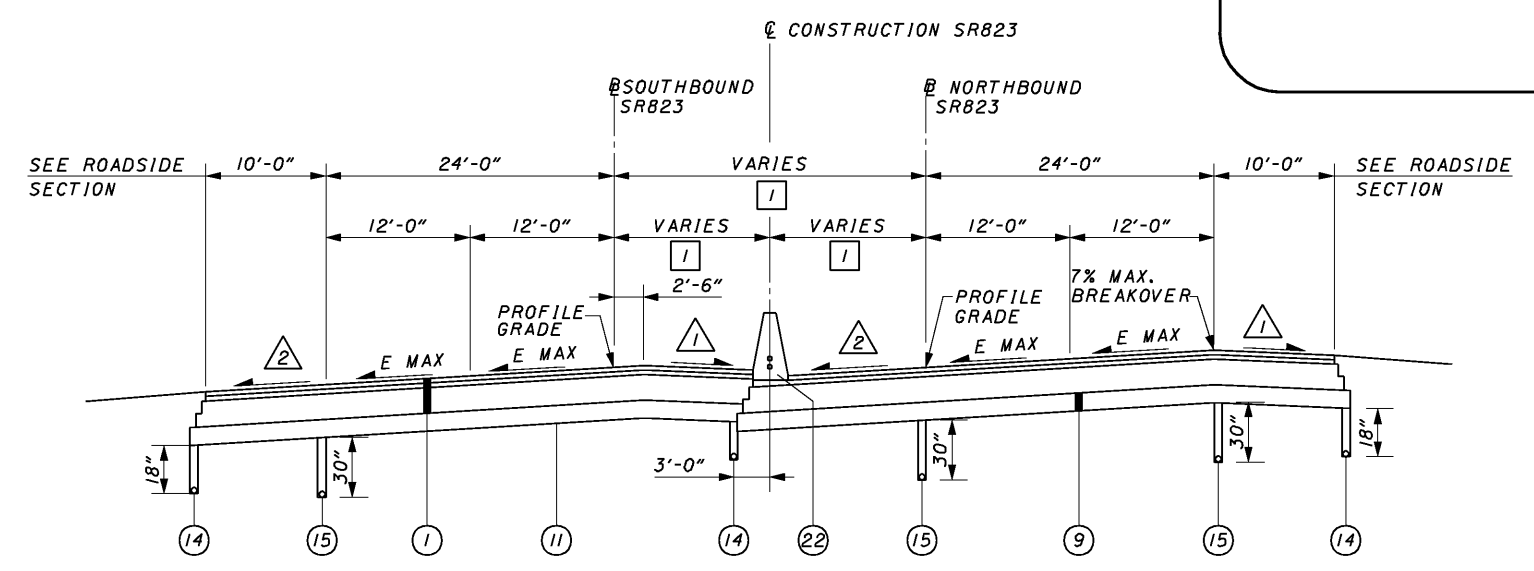
SR823  
SUPERELEVATED SECTION

STA. 125+95.51 TO STA. 130+42.50 = 446.99 LF (E<sub>max</sub> = 0.036)  
STA. 139+31.76 TO STA. 168+86.78, SOUTHBOUND = 2955.02 LF (E<sub>max</sub> = 0.036)  
STA. 140+57.52 TO STA. 168+86.78, NORTHBOUND = 2829.26 LF (E<sub>max</sub> = 0.036)



DETAIL

STA. 139+31.76 TO STA. 140+27.52 = 95.76 LF



SR823  
SUPERELEVATED SECTION

SOUTHBOUND

STA. 168+86.78 TO STA. 187+28.93 = 1842.15 LF

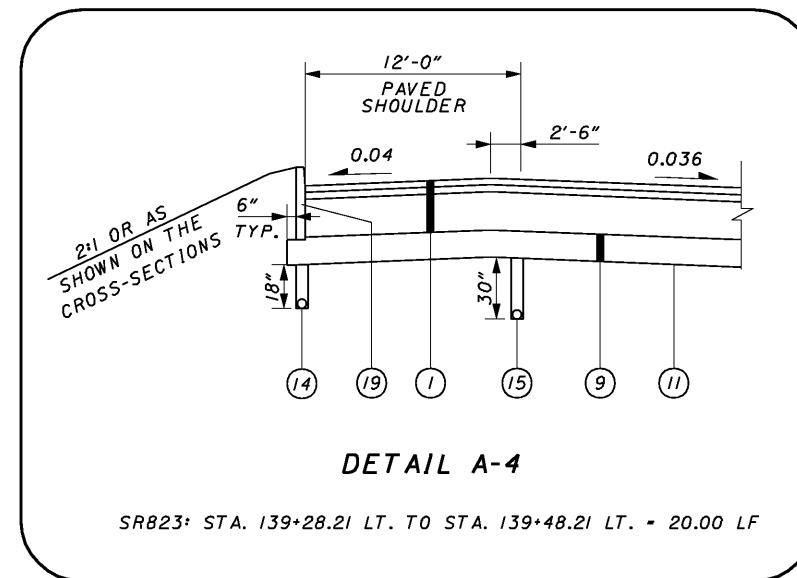
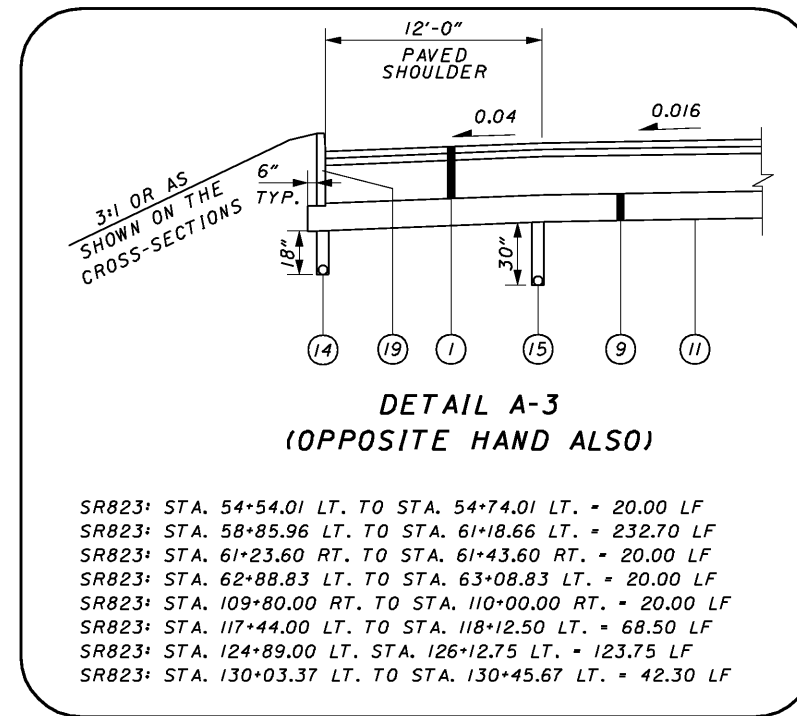
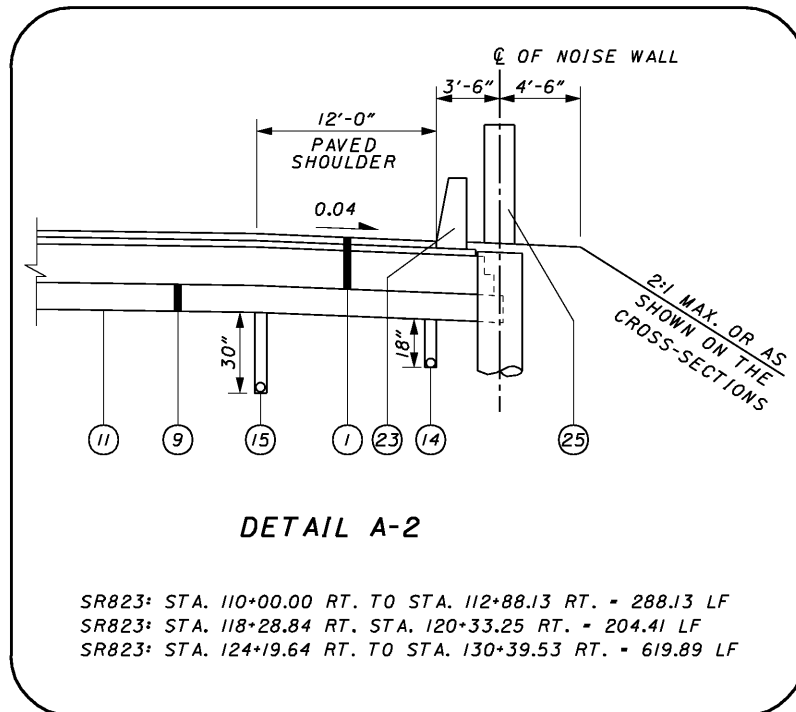
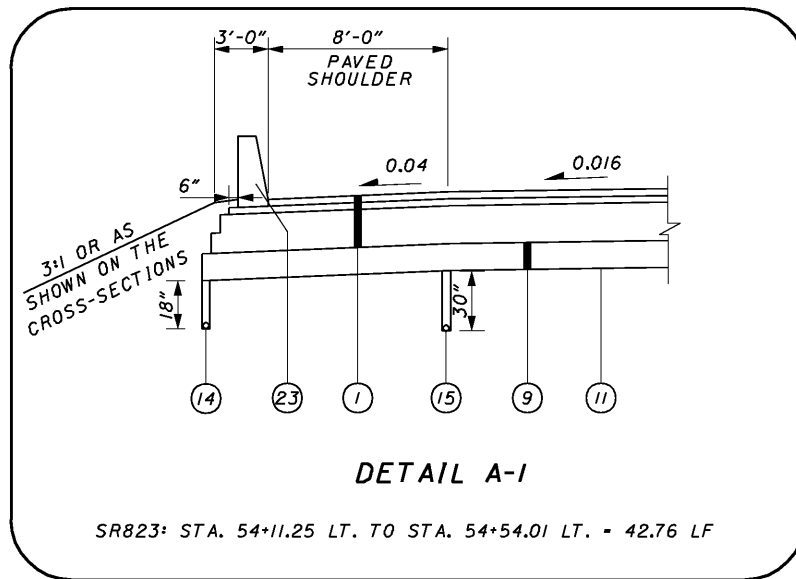
NORTHBOUND

SB SR823: STA. 168+86.78 TO STA. 187+24.48 = 1837.70 LF (E<sub>max</sub> = 0.052)  
NB SR823: STA. 168+86.78 TO STA. 187+35.51 = 1848.73 LF (E<sub>max</sub> = 0.06)

NOTES:

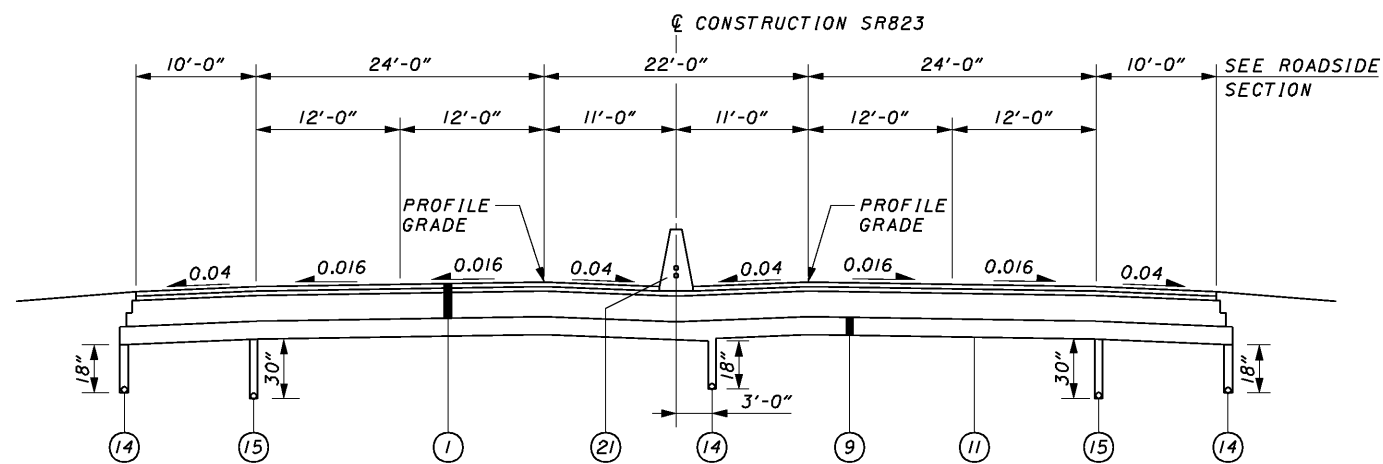
1. FOR LEGEND AND BASE STEP DETAIL SEE SHEET XX
  2. FOR ROADSIDE SECTION SEE SHEET XX
  3. FOR GUARDRAIL LOCATIONS SEE PLAN SHEETS
  4. FOR ROCK CUT UNDERDRAIN DETAILS SEE SHEET XXX.
- △ 0.04 OR AS SHOWN ON THE SUPERELEVATION TABLE  
△ 0.04 OR RATE OF SUPERELEVATION, WHICH EVER IS GREATER.  
□ WIDTH VARIES SEE PLAN AND PROFILE SHEET XXX

8/4/14 3:4 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366gy03.sht



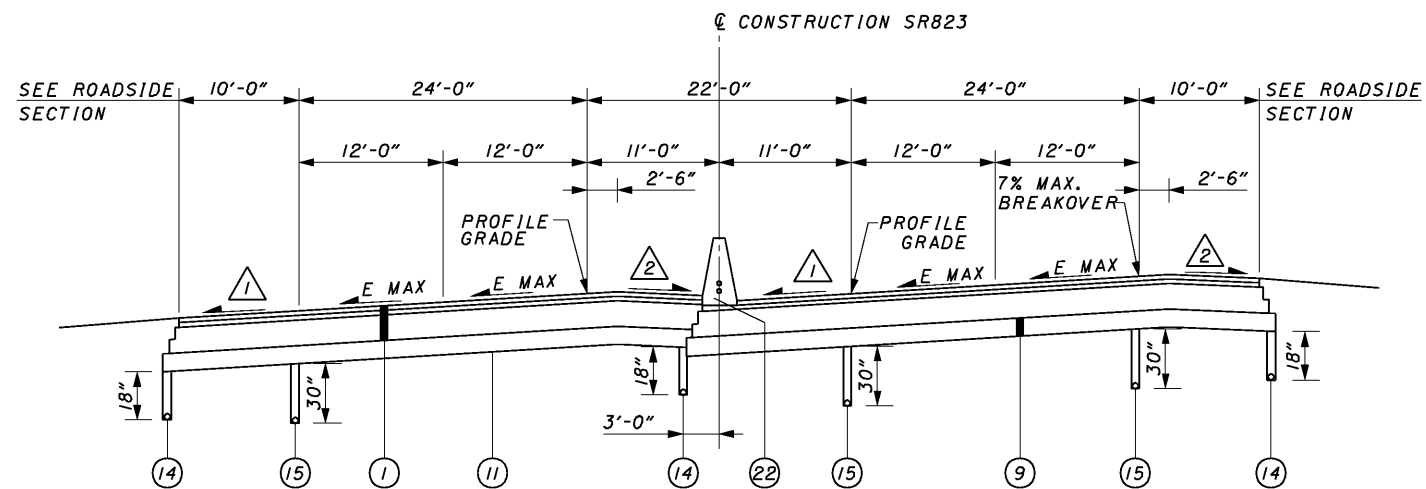
**NOTES:**

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.



**SR823  
NORMAL SECTION**

STA. 187+28.93 TO STA. 202+45.19 = 1516.26 LF  
 STA. 245+13.79 TO STA. 258+81.51 = 1367.72 LF  
 STA. 290+71.07 TO STA. 313+88.42 = 2317.35 LF



**SR823  
SUPERELEVATED SECTION**

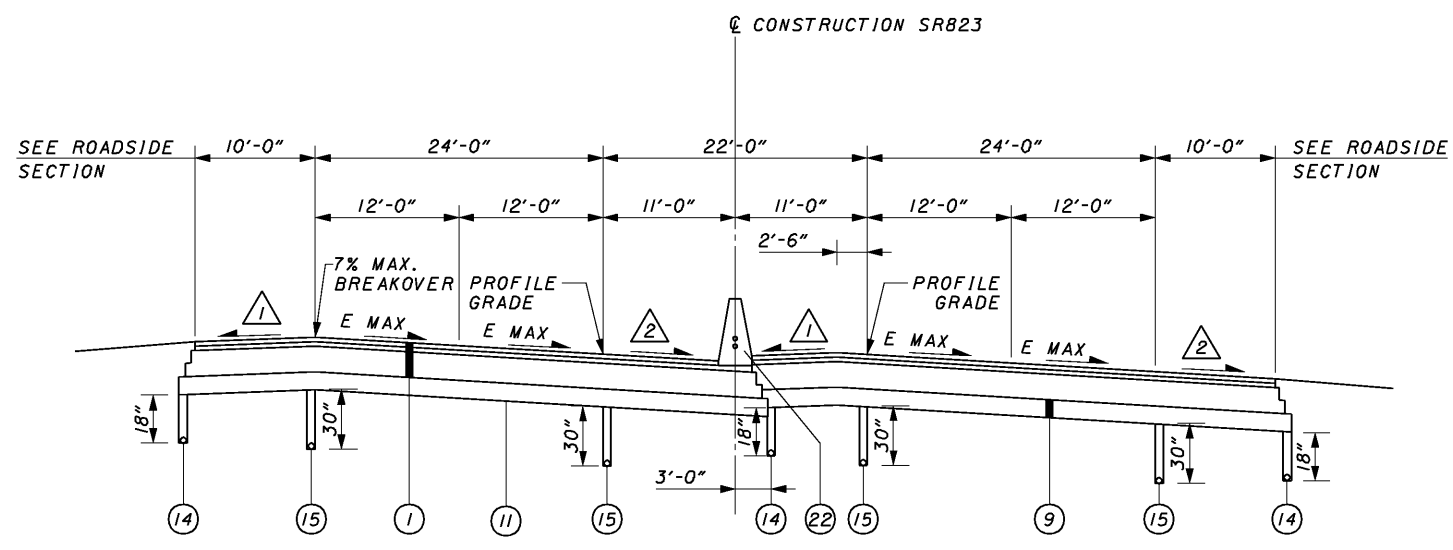
STA. 202+45.19 TO STA. 245+13.79 = 4268.60 LF [E<sub>max</sub> = 0.019]  
 STA. 313+88.42 TO STA. 352+00.00 = 3811.58 LF [E<sub>max</sub> = 0.028]

**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.

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





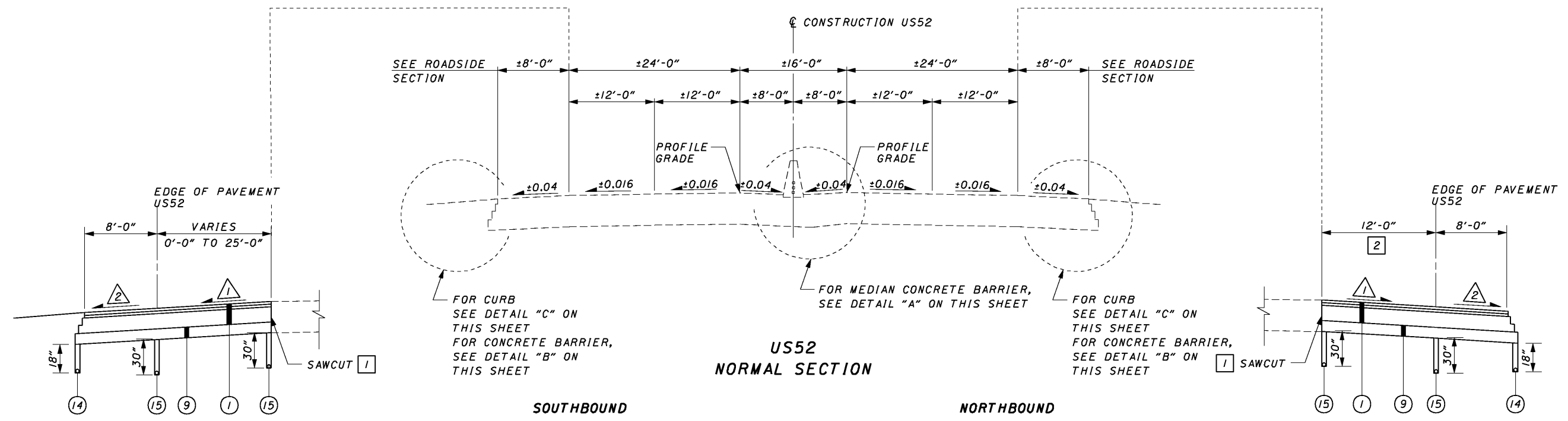
**SR823  
SUPERELEVATED SECTION**

STA. 258+81.51 TO STA. 290+71.07 = 3189.56 LF [E<sub>max</sub> = 0.044]

**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.

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



US52: STA. 5+21.04 TO STA. 18+22.59 = 1301.55 LF

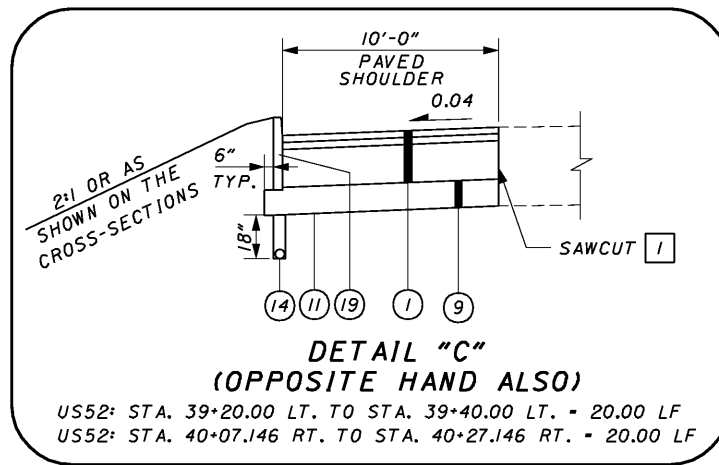
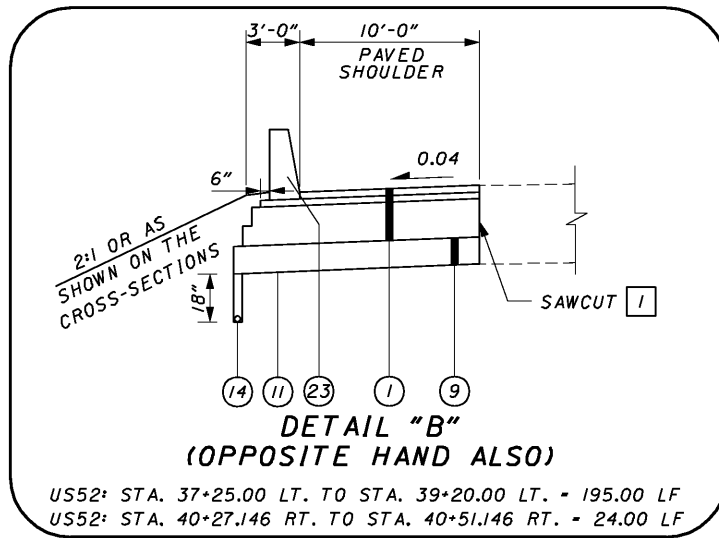
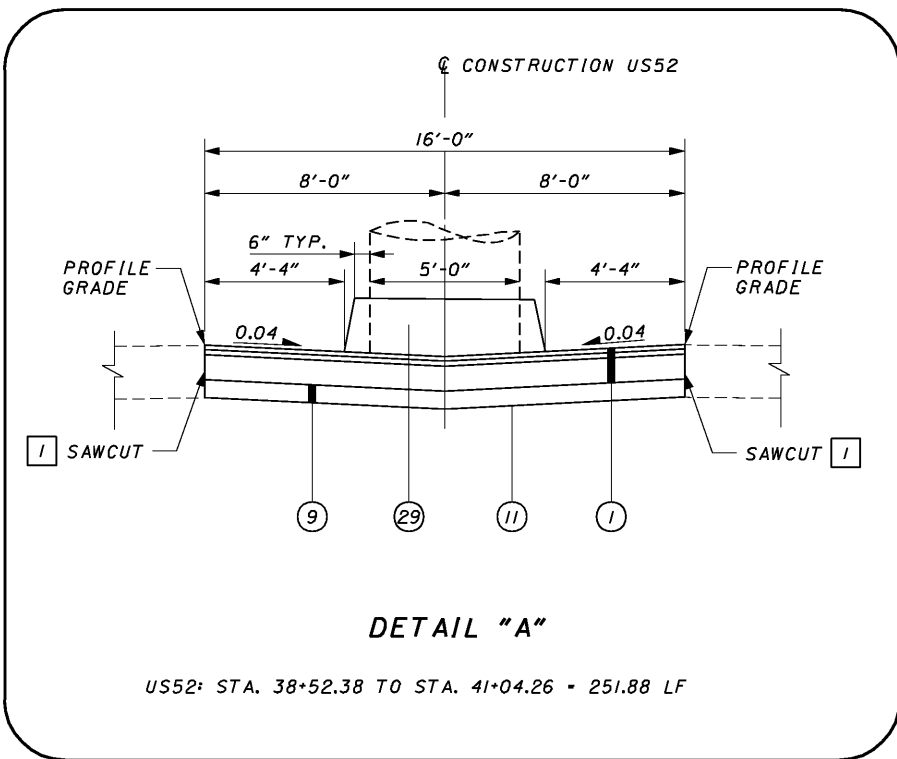
STA. 5+21.04 TO STA. 18+22.59 = 1247.59 LF  
STA. 35+55.97 TO STA. 41+50.00 = 594.03 LF

STA. 5+75.00 TO STA. 18+22.59 = 1247.59 LF  
STA. 35+55.97 TO STA. 41+50.00 = 594.03 LF

US52: STA. 5+75.00 TO STA. 18+22.59 = 1247.59 LF

**US 52 INTERCHANGE RAMP B  
SPEED CHANGE LANE (ACCELERATION)**

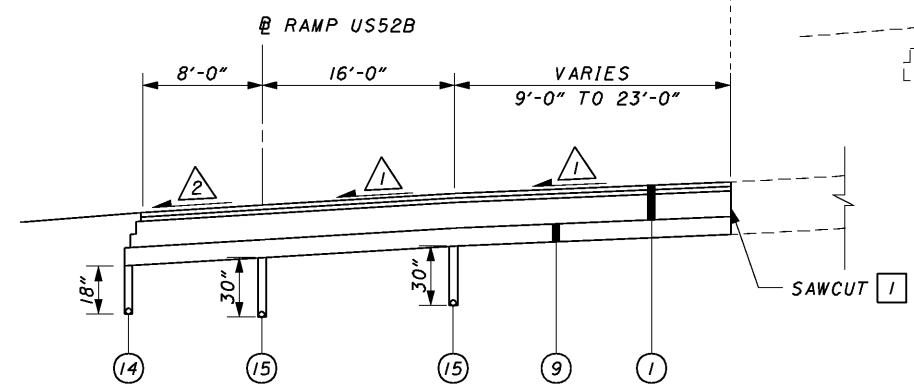
**US 52 INTERCHANGE RAMP A  
SPEED CHANGE LANE (DECELERATION)**



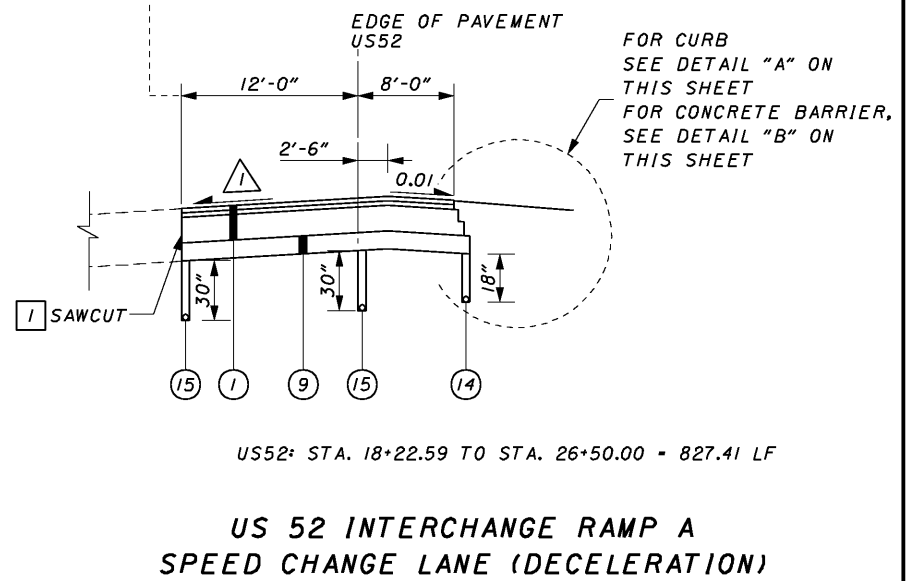
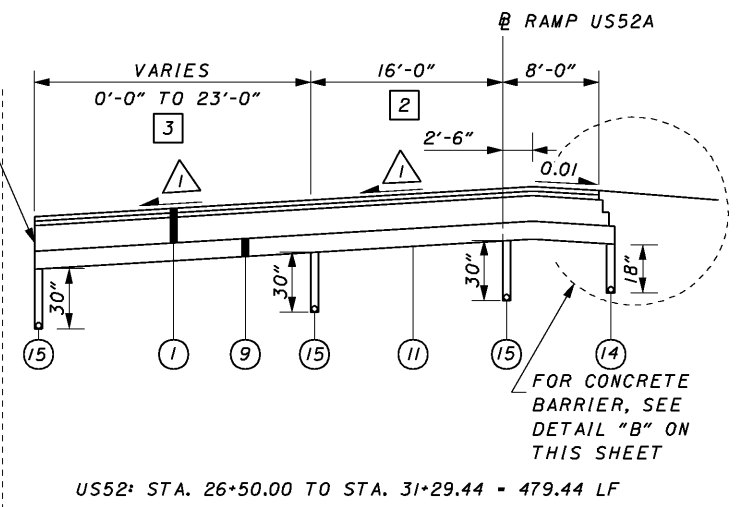
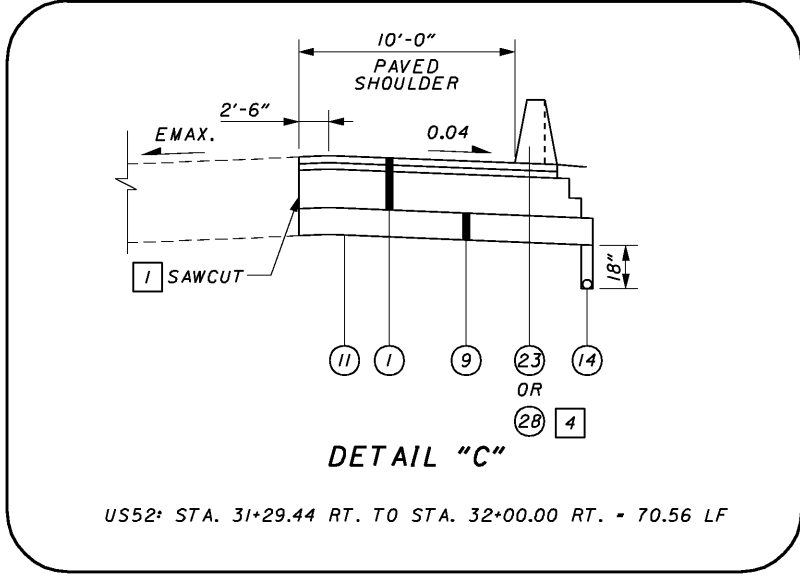
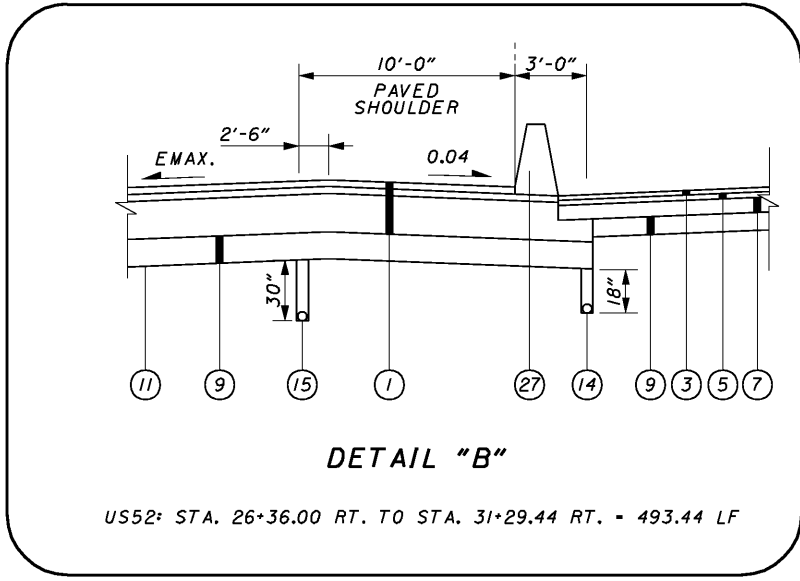
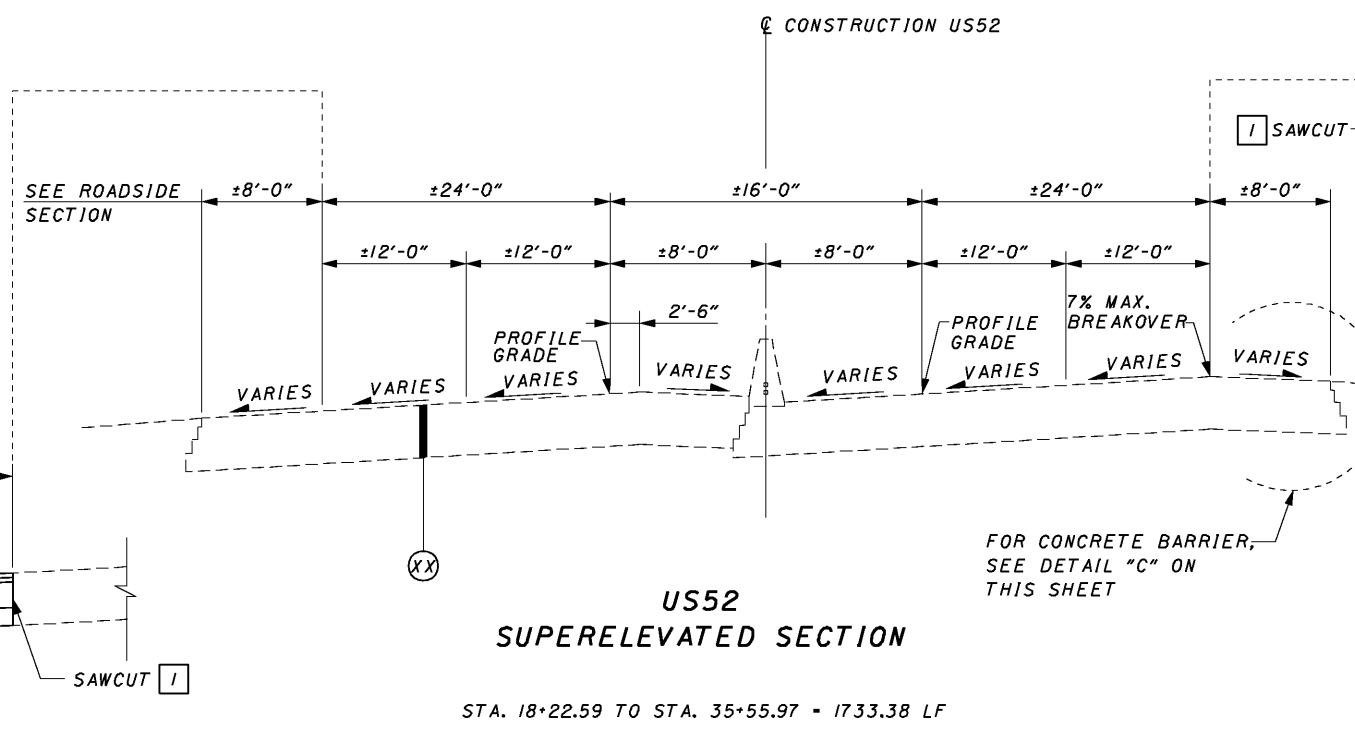
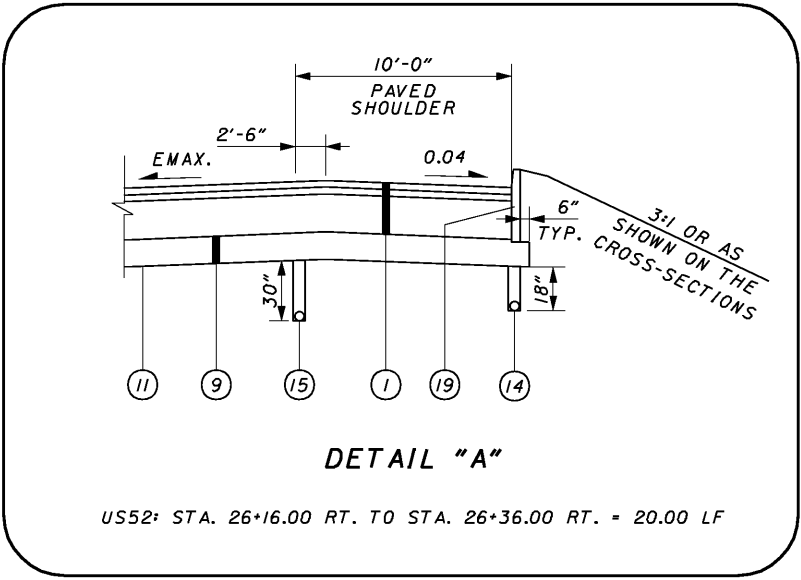
**NOTES:**

1. FOR LEGEND AND BASE STEP DETAIL SEE SHEET XX
  2. FOR ROADSIDE SECTION SEE SHEET XX
  3. FOR GUARDRAIL LOCATIONS SEE PLAN SHEETS
- △ SLOPE VARIES, SEE PAVEMENT ELEVATION DETAIL SHEET XXX
- △ 0.04 OR RATE OF SUPERELEVATION, WHICH EVER IS GREATER.
- 1 TRIM AND CUT EXISTING PAVEMENT, AS PER CMS 203.04(E)
- 2 WIDTH VARIES FROM 0'-0" AT STA. 5+75.00 TO 12'-0" AT STA. 6+75.00 = 100.00 LF

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US52: STA. 18+22.59 TO STA. 22+53.84 = 431.25 LF  
**US 52 INTERCHANGE RAMP B  
SPEED CHANGE LANE (ACCELERATION)**



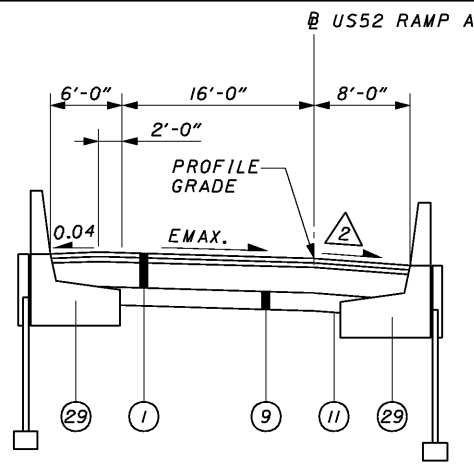
**NOTES:**

1. FOR LEGEND AND BASE STEP DETAIL SEE SHEET XX
2. FOR ROADSIDE SECTION SEE SHEET XX
3. FOR GUARDRAIL LOCATIONS SEE PLAN SHEETS

- △ SLOPE VARIES, SEE PAVEMENT ELEVATION DETAIL SHEET XXX
- △ 0.04 OR RATE OF SUPERELEVATION, WHICH EVER IS GREATER.

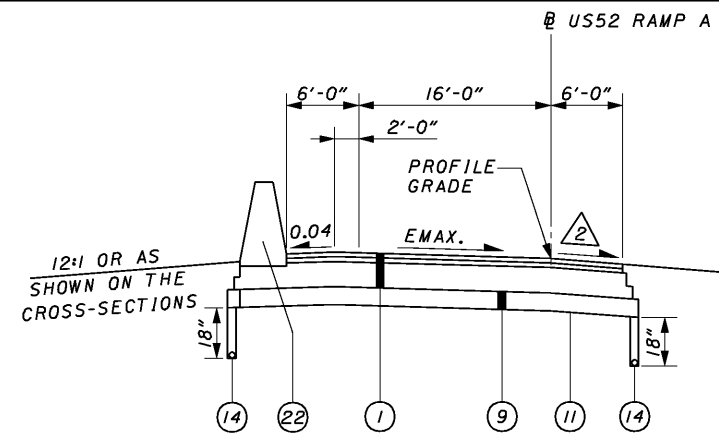
- 1 TRIM AND CUT EXISTING PAVEMENT, AS PER CMS 203.04(E)
- 2 WIDTH VARIES FROM 12'-0" AT STA. 26+50 TO 16'-0" AT STA. 28+22.97 = 172.97 LF
- 3 WIDTH VARIES FROM 0'-0" AT STA. 28+22.97 TO 23'-0" AT STA. 31+29.44 = 306.47 LF
- 4 FOR TYPE OF CONCRETE BARRIER AND FOR LIMITING STATIONS, SEE PLAN SHEET XXX.

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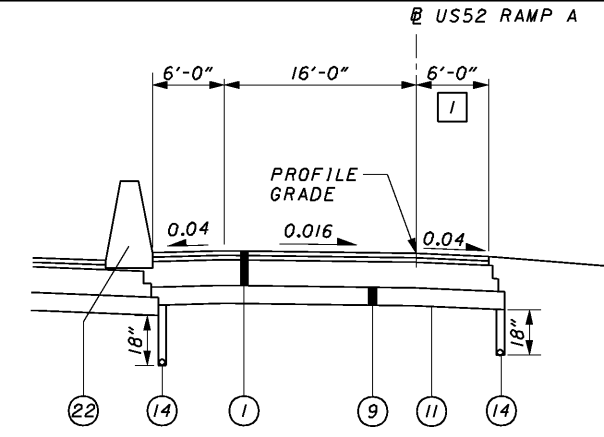
**US52 INTERCHANGE  
SUPERELEVATED SECTION - RAMP A**

US52 RAMP A: STA. 37+50.00 TO STA. 38+84.64 = 134.64 LF (E MAX. = 0.056)  
 US52 RAMP A: STA. 41+82.57 TO STA. 42+15.00 = 32.43 LF (E MAX. = 0.056)



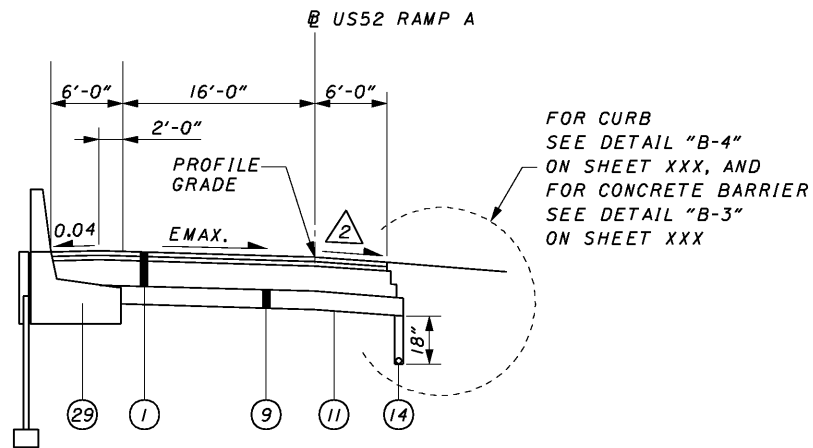
**US52 INTERCHANGE  
SUPERELEVATED SECTION - RAMP A**

US52 RAMP A: STA. 46+40.146 TO STA. 53+56.64 = 76.494 LF (E MAX. = 0.056)



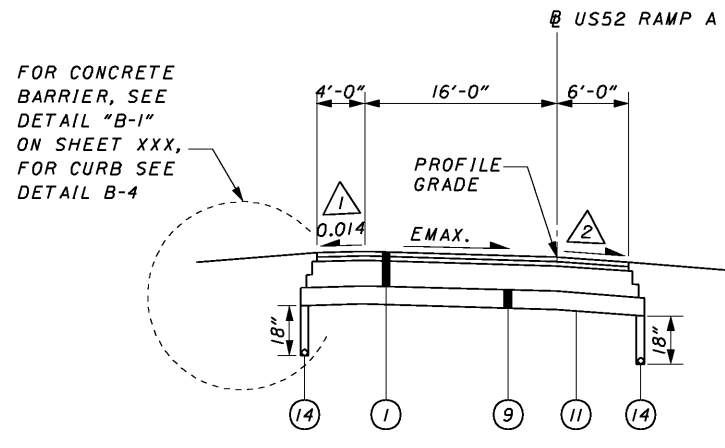
**US52 INTERCHANGE  
NORMAL SECTION - RAMP A**

US52 RAMP A: STA. 53+56.64 TO STA. 54+11.25 (SR823) = 54.61 LF



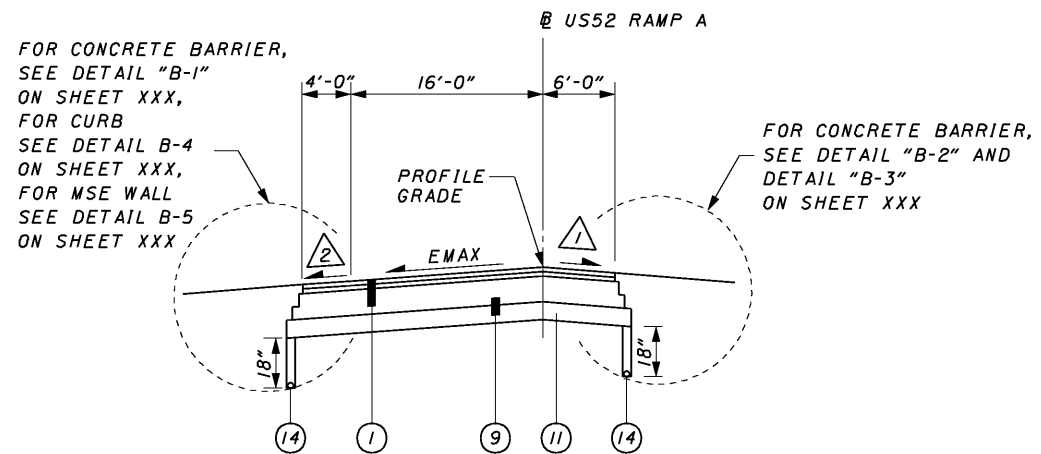
**US52 INTERCHANGE  
SUPERELEVATED SECTION - RAMP A**

US52 RAMP A: STA. 34+43.64 TO STA. 37+50.00 = 306.36 LF (E MAX. = 0.056)  
 US52 RAMP A: STA. 42+15.00 TO STA. 43+24.00 = 109.00 LF (E MAX. = 0.056)



**US52 INTERCHANGE  
SUPERELEVATED SECTION - RAMP A**

US52 RAMP A: STA. 43+24.00 TO STA. 46+40.146 = 316.146 LF (E MAX. = 0.056)



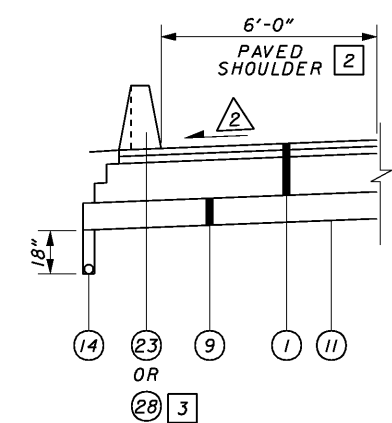
**US52 INTERCHANGE  
SUPERELEVATED SECTION - RAMP A**

US52 RAMP A: STA. 29+79.53 (US52 GORE) TO STA. 34+43.64 = 464.11 LF  
 (E MAX. = 0.051)

**NOTES:**

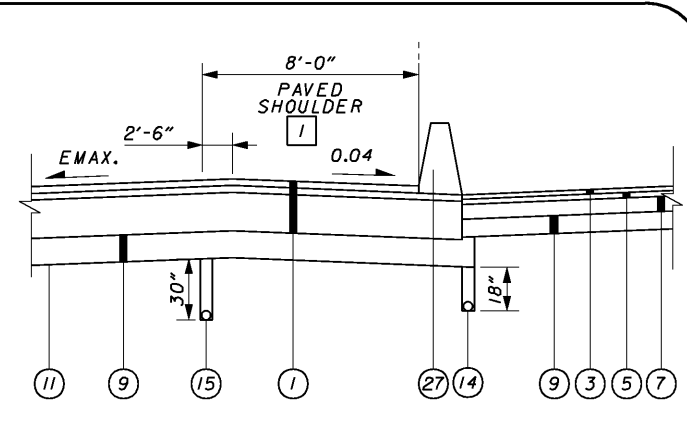
1. FOR LEGEND AND BASE STEP DETAIL SEE SHEET XX
2. FOR ROADSIDE SECTION SEE SHEET XX
3. FOR GUARDRAIL LOCATIONS SEE PLAN SHEETS
4. FOR ROCK CUT UNDERDRAIN DETAILS SEE SHEET XXX.

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



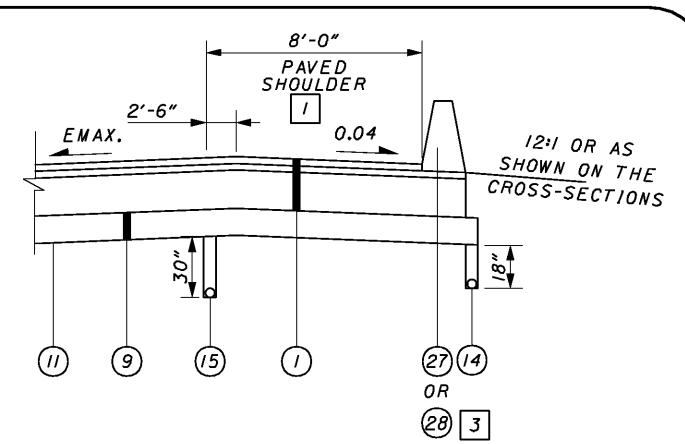
DETAIL "B-1"

US52 RAMP A: STA. 29+79.53 LT. TO STA. 31+08.85 LT. = 129.32 LF  
 US52 RAMP A: STA. 33+86.00 LT. TO STA. 34+00.00 LT. = 14.00 LF  
 US52 RAMP A: STA. 43+24.00 LT. TO STA. 43+38.00 LT. = 14.00 LF



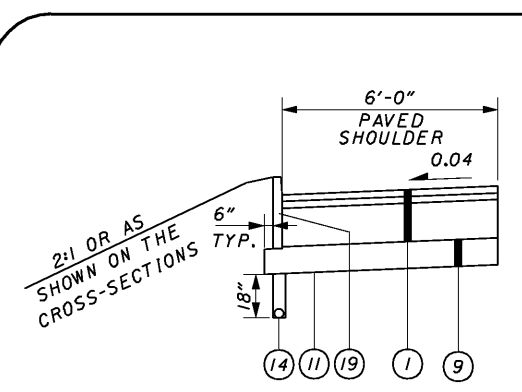
DETAIL "B-2"

US52 RAMP A: STA. 29+79.53 RT. TO STA. 31+00.00 RT. = 120.47 LF



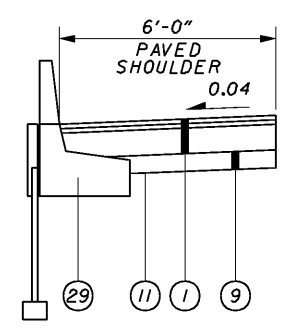
DETAIL "B-3"

US52 RAMP A: STA. 31+00.00 RT. TO STA. 33+21.35 RT. = 221.35 LF  
 US52 RAMP A: STA. 37+36.00 RT. TO STA. 37+50.00 RT. = 14.00 LF  
 US52 RAMP A: STA. 42+15.00 RT. TO STA. 42+29.00 RT. = 14.00 LF



DETAIL "B-4"  
(OPPISTE HAND ALSO)

US52 RAMP A: STA. 33+66.00 LT. TO STA. 33+86.00 LT. = 20.00 LF  
 US52 RAMP A: STA. 37+10.00 RT. TO STA. 37+36.00 RT. = 26.00 LF  
 US52 RAMP A: STA. 46+18.65 LT. TO STA. 46+38.65 LT. = 20.00 LF



DETAIL "B-5"

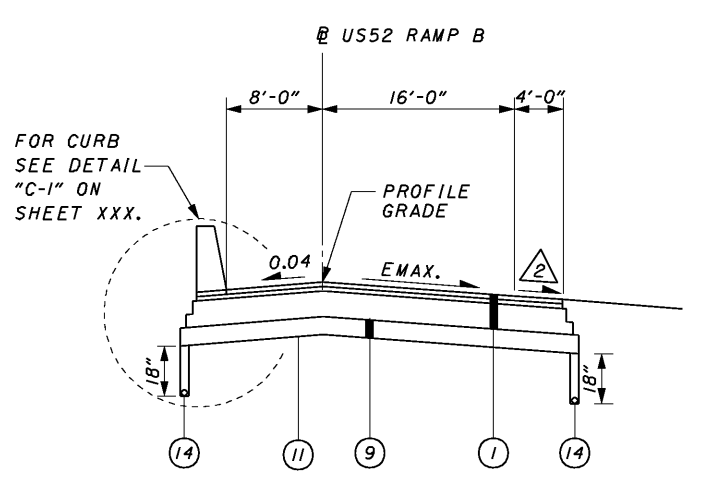
US52 RAMP A: STA. 34+00.00 LT. TO STA. 34+43.64 LT. = 43.64 LF

**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.

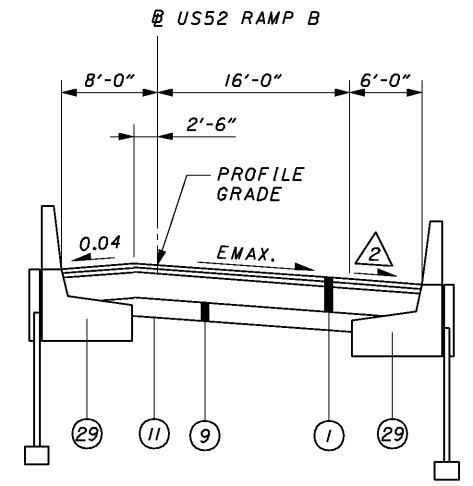
- ▲ 0.04 OR AS SHOWN ON THE SUPERELEVATION TABLE.  
 ▲ 2 0.04 OR SUPERELEVATION RATE, WHICH EVER IS GREATER.

- 1 RAMP A: WIDTH VARIES FROM 10'-0" AT STA. 29+79.53 TO 8'-0" AT STA. 30+29.45.  
 2 RAMP A: WIDTH VARIES SEE PLAN SHEET XXX.  
 3 FOR TYPE OF CONCRETE BARRIER AND FOR LIMITING STATIONS, SEE PLAN SHEET XXX.



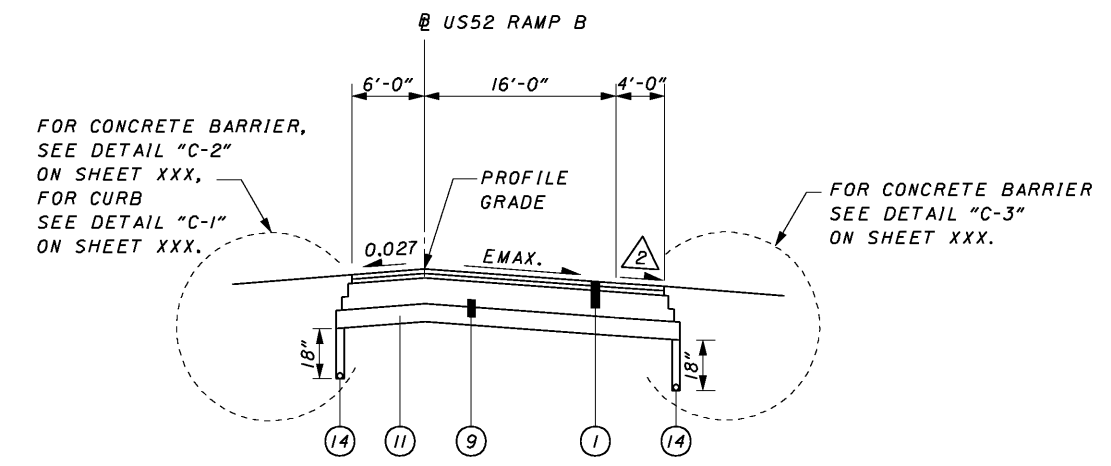
**US52 INTERCHANGE  
SUPERELEVATED SECTION - RAMP B**

US52 RAMP B: STA. 29+19.75 TO STA. 29+50.00 = 30.30 LF  
(E MAX. = 0.043)



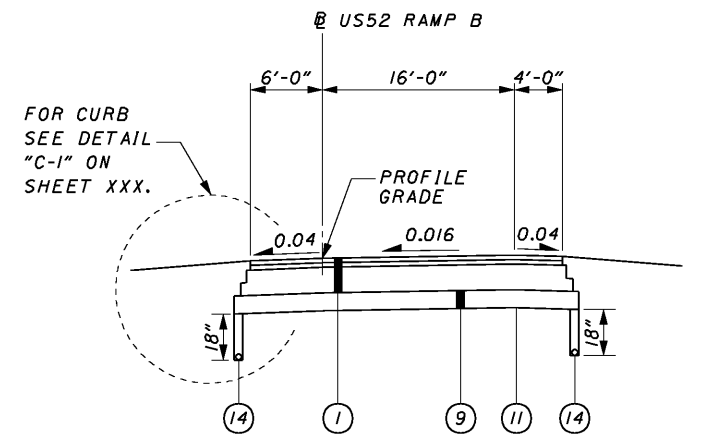
**US52 INTERCHANGE  
SUPERELEVATED SECTION - RAMP B**

US52 RAMP B: STA. 32+50.00 TO STA. 35+12.74 = 262.74 LF (E MAX. = 0.043)  
US52 RAMP B: STA. 42+80.76 TO STA. 43+40.00 = 59.24 LF (E MAX. = 0.043)



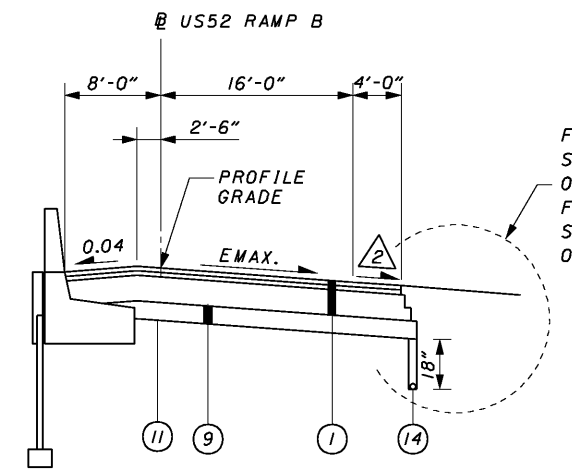
**US52 INTERCHANGE  
SUPERELEVATED SECTION - RAMP B**

US52 RAMP B: STA. 44+25.00 TO STA. 54+11.25 = 986.25 LF (E MAX. = 0.043)



**US52 INTERCHANGE  
NORMAL SECTION - RAMP B**

US52 RAMP B: STA. 24+29.99 TO STA. 29+19.75 = 489.76 LF



**US52 INTERCHANGE  
SUPERELEVATED SECTION - RAMP B**

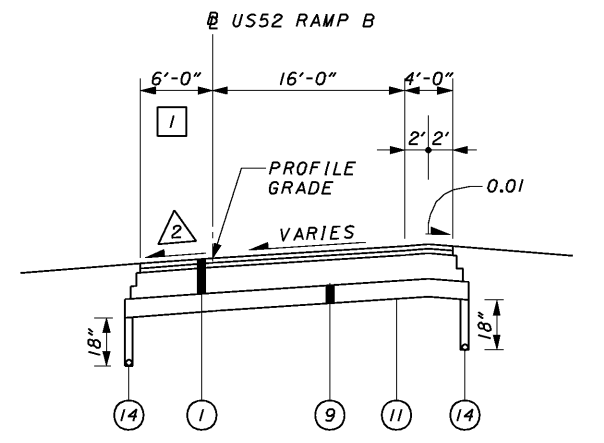
US52 RAMP B: STA. 29+50.00 TO STA. 32+50.00 = 300.00 LF (E MAX. = 0.043)  
US52 RAMP B: STA. 43+40.00 TO STA. 44+25.00 = 85.00 LF (E MAX. = 0.043)

**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.

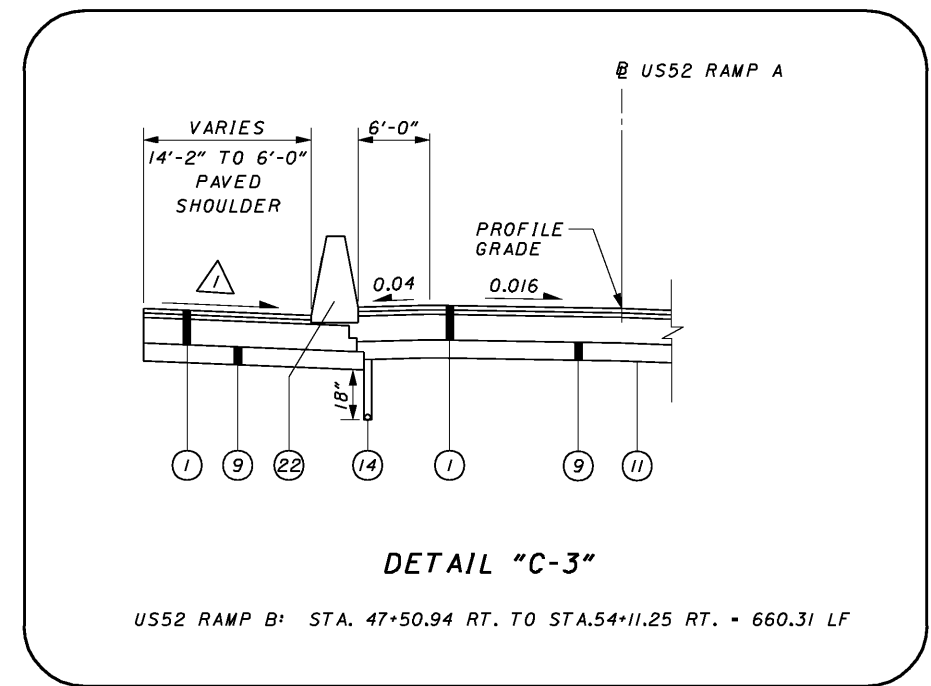
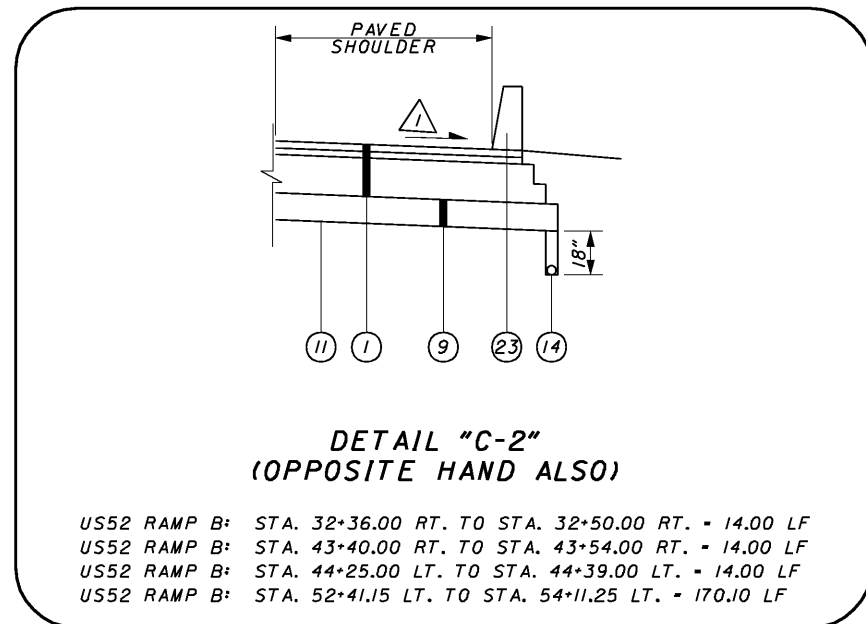
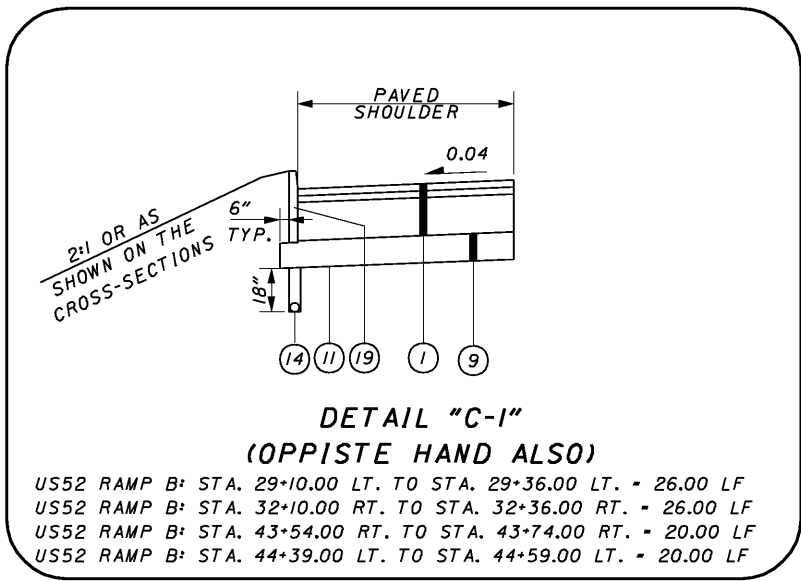
- 0.04 OR AS SHOWN ON THE SUPERELEVATION TABLE.
- 0.04 OR SUPERELEVATION RATE, WHICH EVER IS GREATER.

- US52 RAMP B: WIDTH VARIES FROM 8'-0" AT STA. 20+68.31 TO 6'-0" AT STA. 21+18.31 = 50.00 LF



**US52 INTERCHANGE  
SUPERELEVATED SECTION - RAMP B**

US52 RAMP B: STA. 20+68.31 (US52 GORE) TO STA. 24+29.99 = 361.68 LF  
(E MAX. = 0.071)

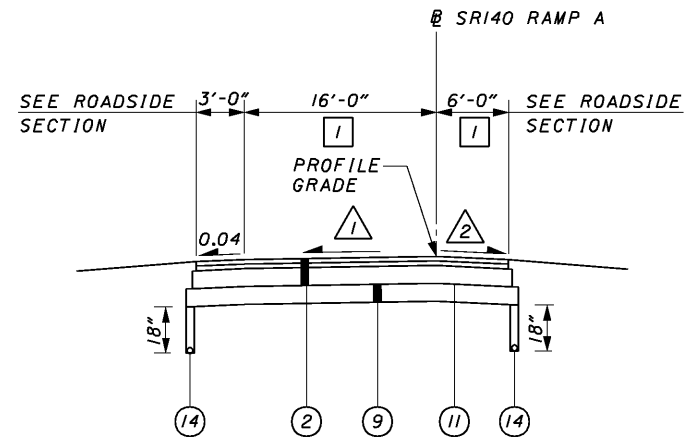


**NOTES:**

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.

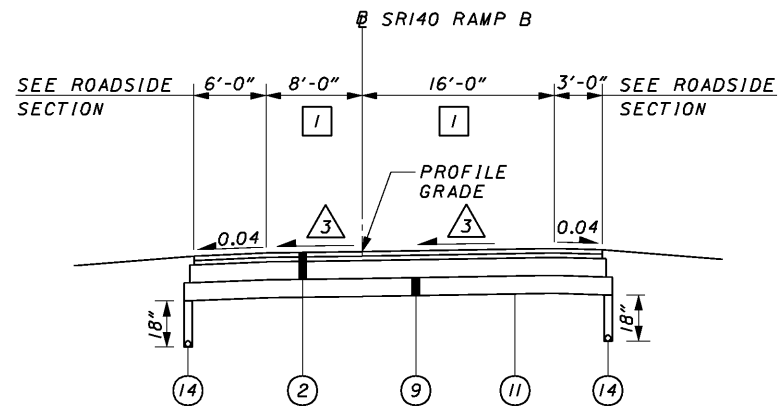
0.04 OR SUPERELEVATION RATE, WHICH EVER IS GREATER.

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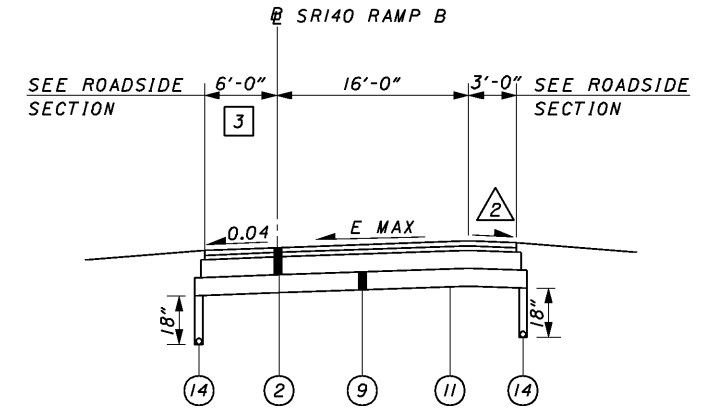
**SRI40 INTERCHANGE  
NORMAL SECTION - RAMP A**

SRI40 RAMP A: STA. 63+28.89 (SRI40 EOP) TO STA. 64+52.08 = 123.19 LF



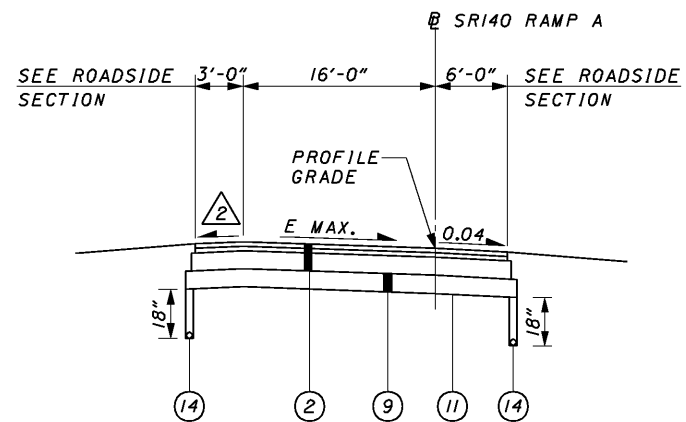
**SRI40 INTERCHANGE  
NORMAL SECTION - RAMP B**

SRI40 RAMP B: STA. 60+44.67 (SRI40 EOP) TO STA. 60+57.02 = 12.35 LF



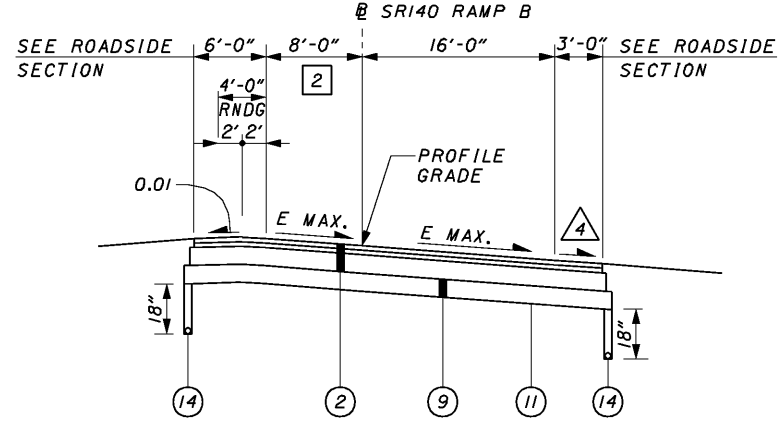
**SRI40 INTERCHANGE  
SUPERELEVATED SECTION - RAMP B**

SRI40 RAMP B: STA. 68+29.68 TO STA. 77+95.19 (SR823 GORE) = 961.51 LF  
(E MAX. = 0.035)



**SRI40 INTERCHANGE  
SUPERELEVATED SECTION - RAMP A**

SRI40 RAMP A: STA. 64+52.08 TO STA. 73+24.73 (SR823 GORE) = 872.65 LF  
(E MAX. = 0.035)



**SRI40 INTERCHANGE  
SUPERELEVATED SECTION - RAMP B**

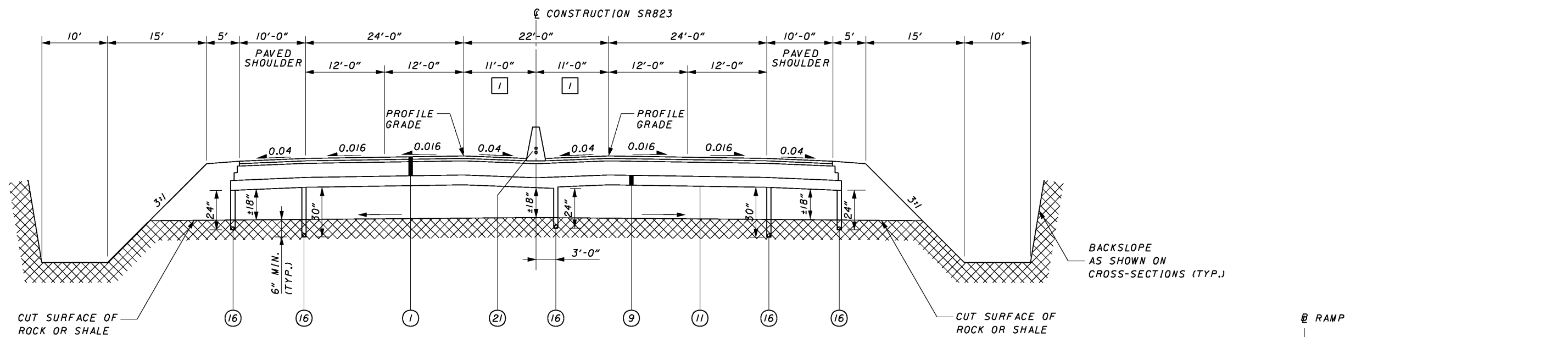
SRI40 RAMP B: STA. 60+57.02 TO 68+29.68 = 772.66 LF (E MAX. = 0.07)

**NOTES:**

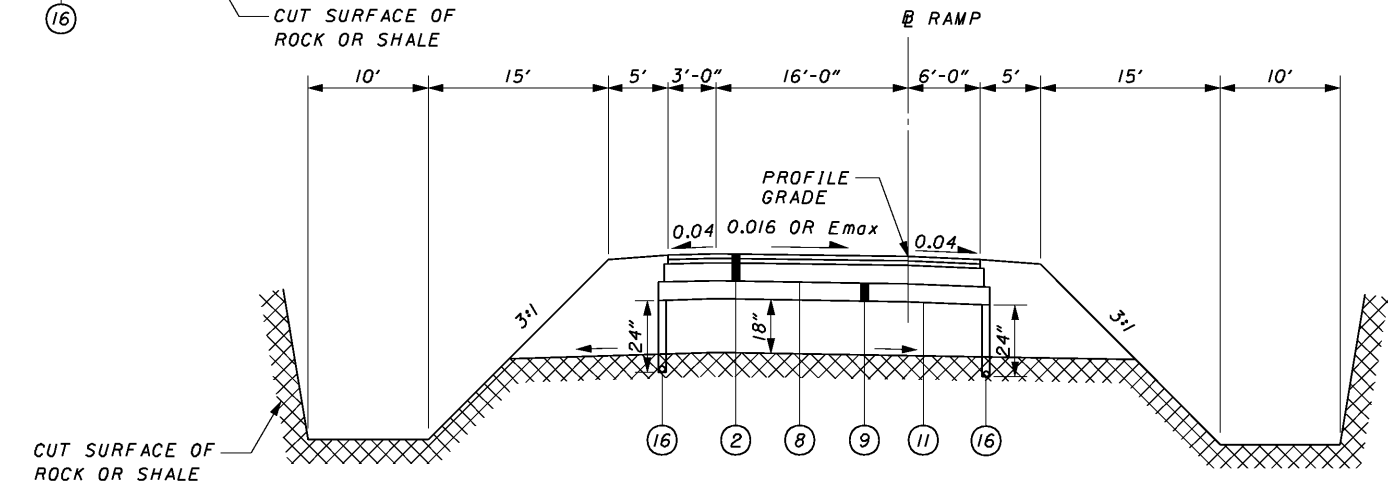
1. FOR LEGEND AND BASE STEP DETAIL SEE SHEET XX
  2. FOR ROADSIDE SECTION SEE SHEET XX
  3. FOR GUARDRAIL LOCATIONS SEE PLAN SHEETS
  4. FOR ROCK CUT UNDERDRAIN DETAILS SEE SHEET XXX.
- 
1. SLOPE VARIES, SEE SUPERELEVATION TABLE. SHEET XXX OR INTERSECTION DETAIL SHEET XXX.
  2. 0.04 OR AS SHOWN ON THE SUPERELEVATION TABLE, SHEET XXX.
  3. SLOPE VARIES, SEE SUPERELEVATION TABLE, SHEET XXX OR INTERSECTION DETAIL SHEET XXX.
  4. 0.04 OR SUPERELEVATION RATE, WHICHEVER IS GREATER.
- 
1. WIDTH VARIES SEE PLAN SHEETS XXX, XXX.
  2. WIDTH VARIES FROM 8' AT STA. 68+77.89 TO 0' AT STA. 69+27.89.
  3. WIDTH VARIES FROM 6' AT STA. 76+95.19 TO 8' AT STA. 77+95.19.

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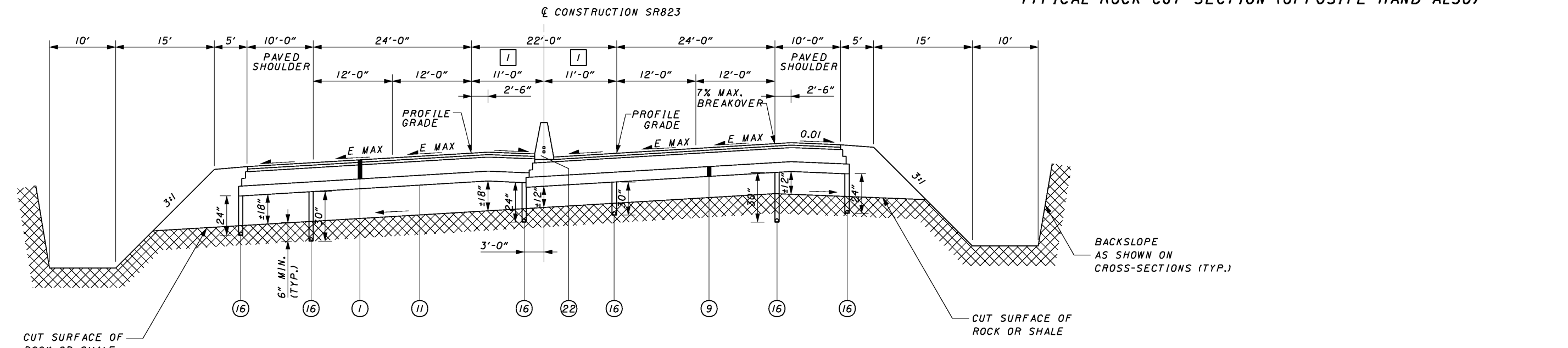




SR823  
TYPICAL ROCK CUT NORMAL SECTION



INTERCHANGE RAMPS  
TYPICAL ROCK CUT SECTION (OPPOSITE HAND ALSO)



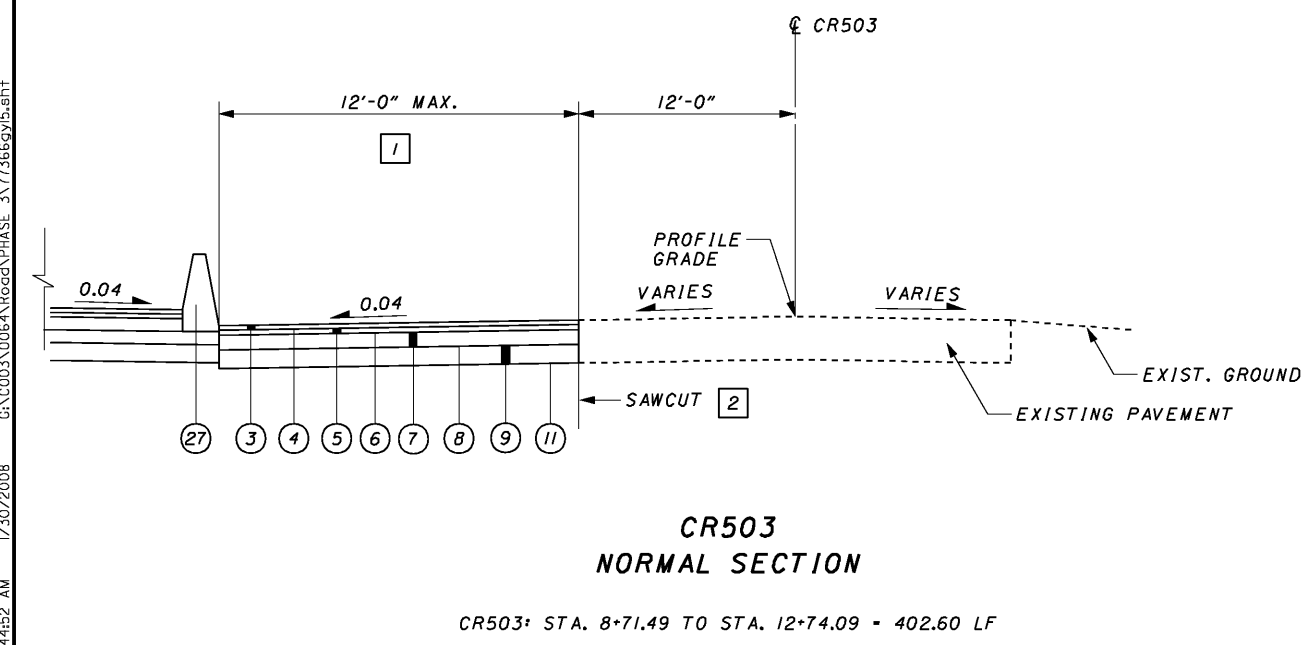
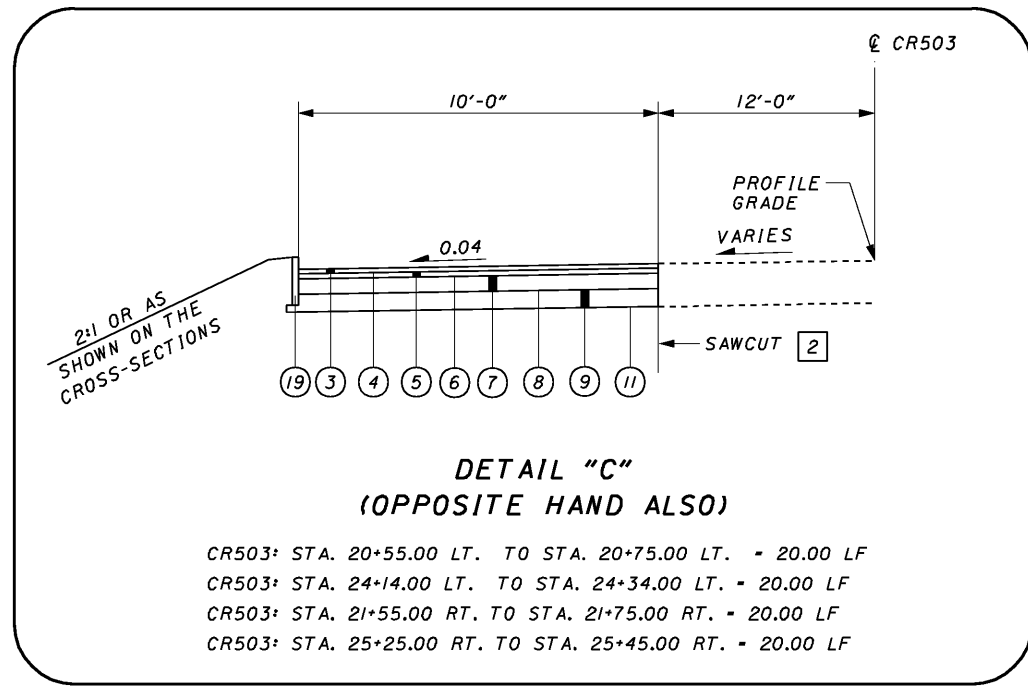
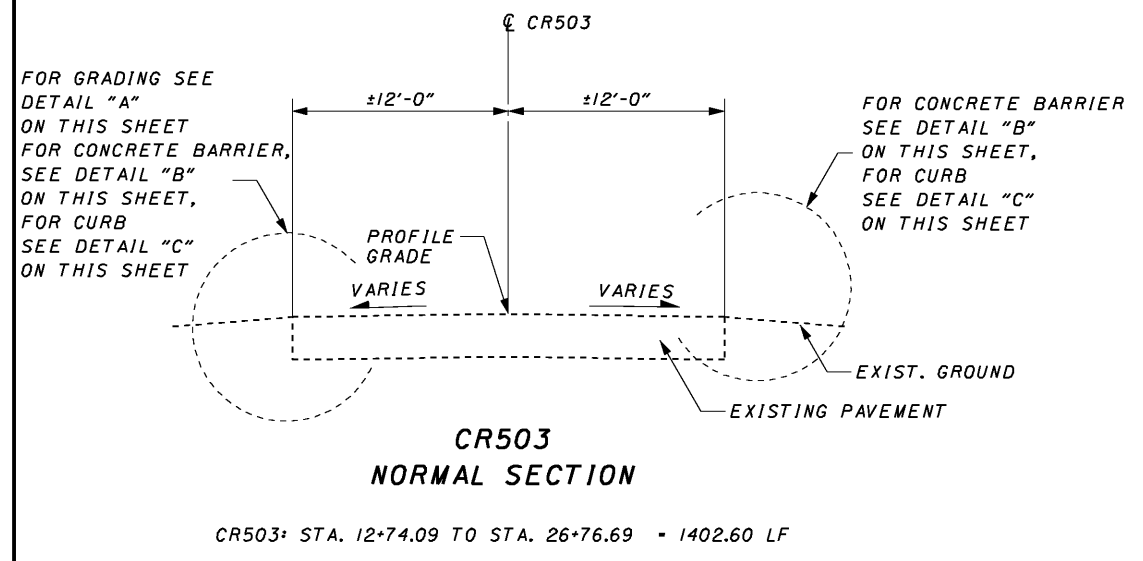
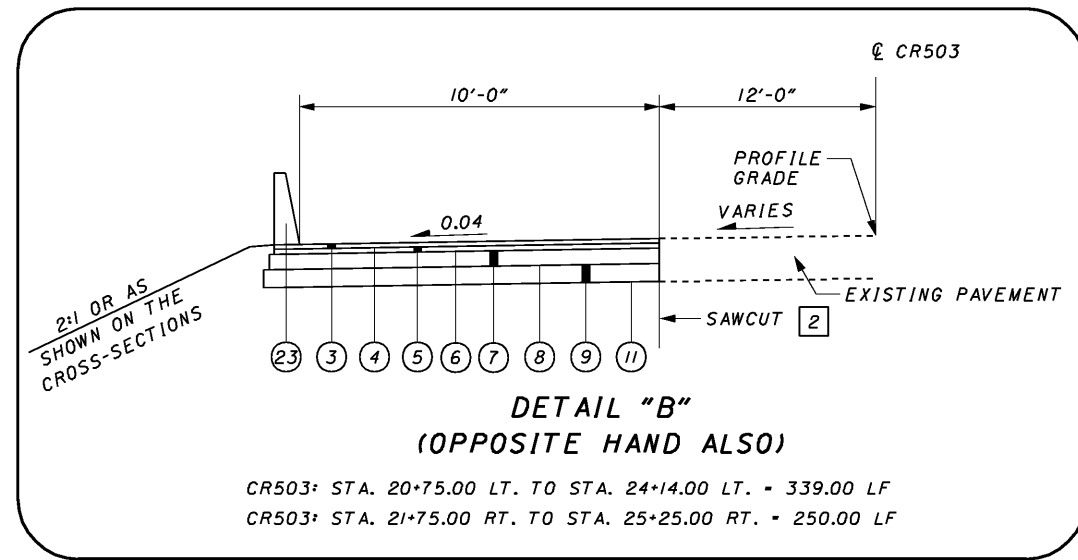
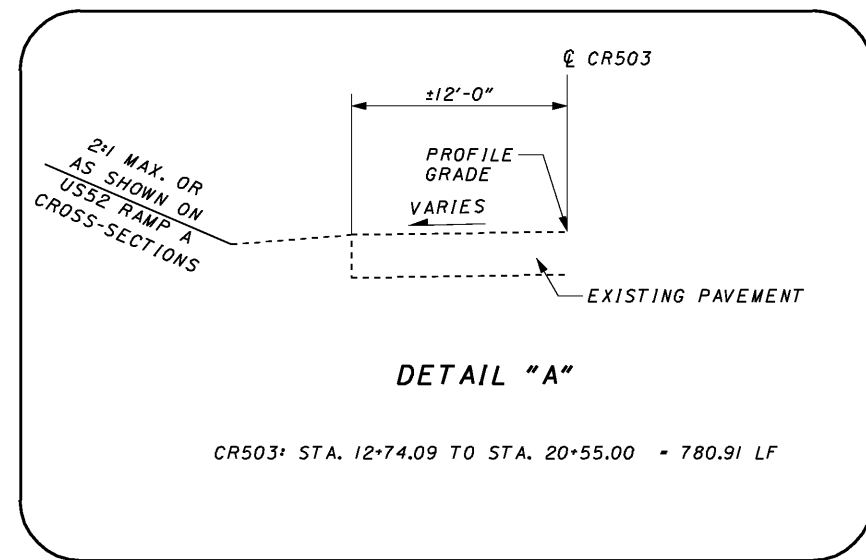
SR823  
TYPICAL ROCK CUT SUPERELEVATION SECTION (OPPOSITE HAND ALSO)

**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 ROADSIDE SECTION SEE SHEET XX
3. FOR GUARDRAIL LOCATIONS SEE PLAN SHEETS
4. FOR ROCK CUT UNDERDRAIN DETAILS SEE SHEET XXX.

△ 0.04 OR SUPERELEVATION RATE, WHICH EVER IS GREATER.

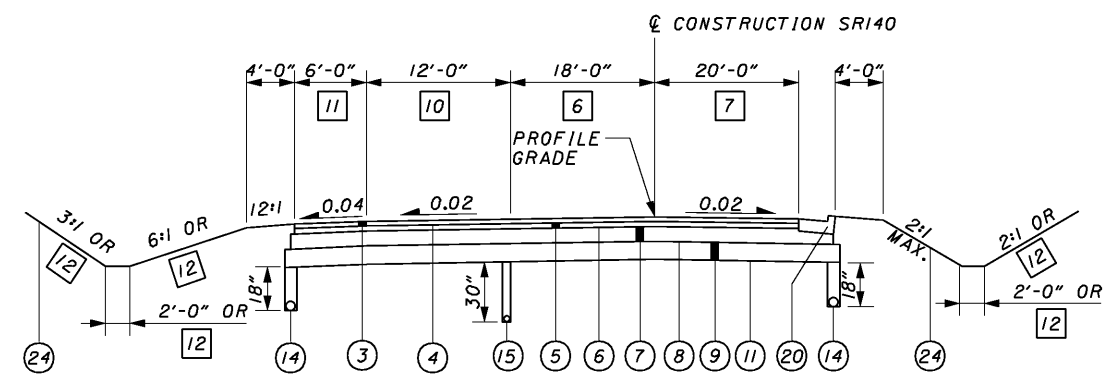
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**NOTES:**

1. FOR LEGEND AND BASE STEP DETAIL SEE SHEET XX
2. FOR ROADSIDE SECTION SEE SHEET XX
3. FOR GUARDRAIL LOCATIONS SEE PLAN SHEETS

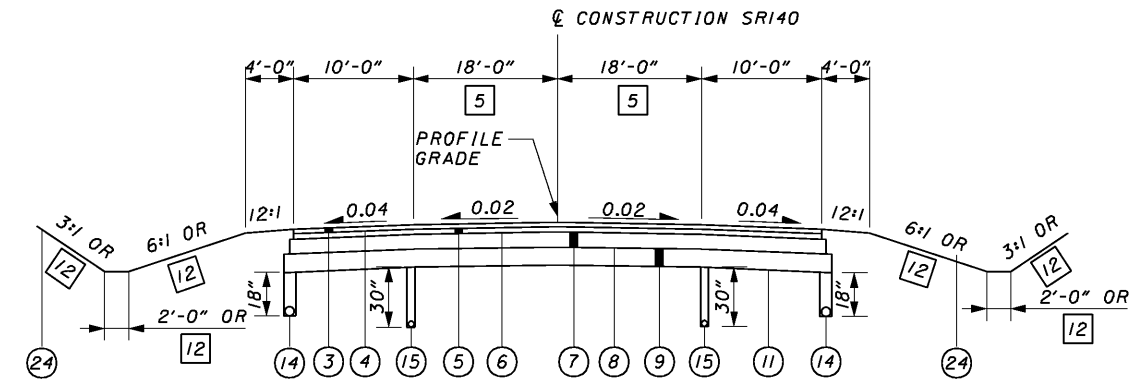
- 1 SLOPE VARIES FROM 0.008 FT/FT AT STA. 3+00.00 TO 0.02 FT/FT AT STA. 3+28.85.
- 2 SLOPE VARIES FROM 0.0376 FT/FT AT STA. 3+00.00 TO 0.02 FT/FT AT STA. 3+40.00.
- 3 SLOPE VARIES FROM 0.02 FT/FT AT STA. 17+49.37 TO 0.0012 AT STA. 17+91.74.
- 4 SLOPE VARIES FROM 0.02 FT/FT AT STA. 17+46.74 TO 0.00 FT/FT AT STA. 17+91.74.
- 5 SLOPE VARIES, SEE SR140 AND CR251 INTERSECTION DETAIL SHEET XXX.

- 1 PAVEMENT WIDTH VARIES FROM ±13.0 FT AT STA. 3+00.00 TO 12.00 FT AT STA. 3+30.00
- 2 PAVEMENT WIDTH VARIES FROM ±11.2 FT AT STA. 3+00.00 TO 12.00 FT AT STA. 3+30.00.
- 3 SHOULDER WIDTH VARIES FROM ±2.0 FT AT STA. 3+00.00 TO 10.00 FT AT STA. 5+00.00.
- 4 SHOULDER WIDTH VARIES FROM ±5.5 FT AT STA. 3+00.00 TO 10.00 FT AT STA. 3+50.00.
- 5 PAVEMENT WIDTH VARIES FROM 12.00 FT AT STA. 4+81.15 TO 18.00 FT AT STA. 6+83.65.
- 6 PAVEMENT WIDTH VARIES FROM 18.00 FT AT STA. 14+74.14 TO 12.00 FT AT STA. 16+76.64.
- 7 PAVEMENT WIDTH VARIES FROM 20.00 FT AT STA. 14+74.14 TO 14.00 FT AT STA. 16+76.64.
- 8 PAVEMENT WIDTH VARIES FROM 12.00 FT AT STA. 17+46.74 TO ±11.2 FT AT STA. 17+91.74.
- 9 PAVEMENT WIDTH VARIES FROM 12.00 FT AT STA. 17+44.14 TO ±11.0 AT STA. 17+91.74.
- 10 PAVEMENT WIDTH VARIES FROM 12.00 FT AT STA. 16+26.64 TO 0.00 FT AT STA. 16+76.64.
- 11 SHOULDER WIDTH VARIES FROM 6.00 FT AT STA. 16+26.64 TO ±2.0 FT AT STA. 16+76.64.
- 12 AS SHOWN ON THE CROSS-SECTIONS.
- 13 PAVEMENT WIDTH VARIES FROM ±7.9 FT AT STA. 20+10.11 TO 14.00 FT AT STA. 20+89.11.
- 14 PAVEMENT WIDTH VARIES FROM ±8.2 FT AT STA. 20+10.11 TO 14.00 FT AT STA. 20+89.11.



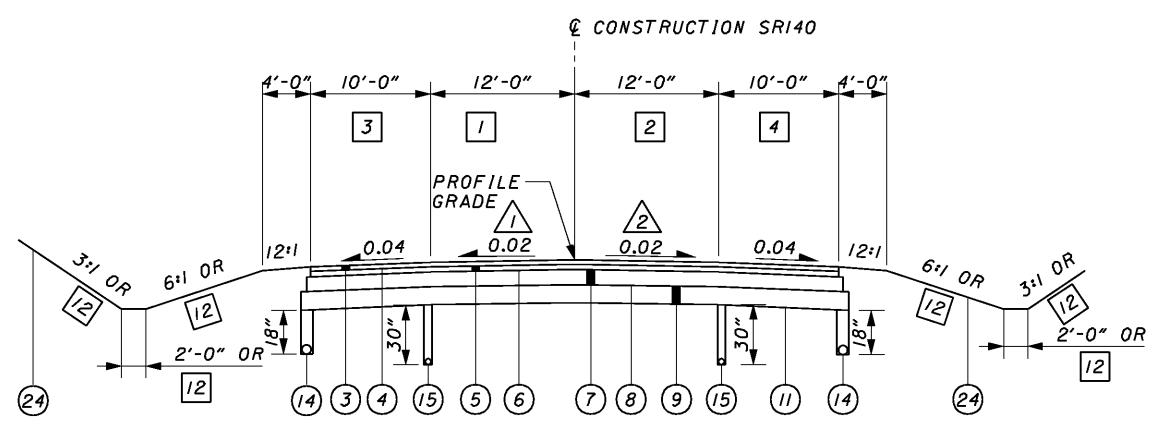
**SRI140  
NORMAL SECTION**

SRI140: STA. 13+47.92 TO STA. 16+76.64 = 328.72 LF



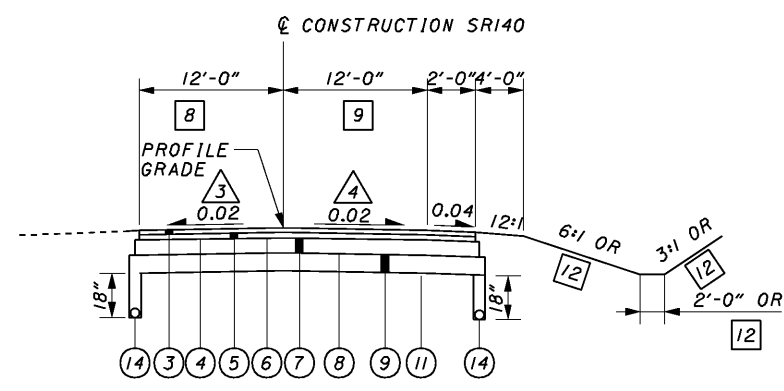
**SRI140  
NORMAL SECTION**

SRI140: STA. 4+81.15 TO STA. 13+47.92 = 866.77 LF



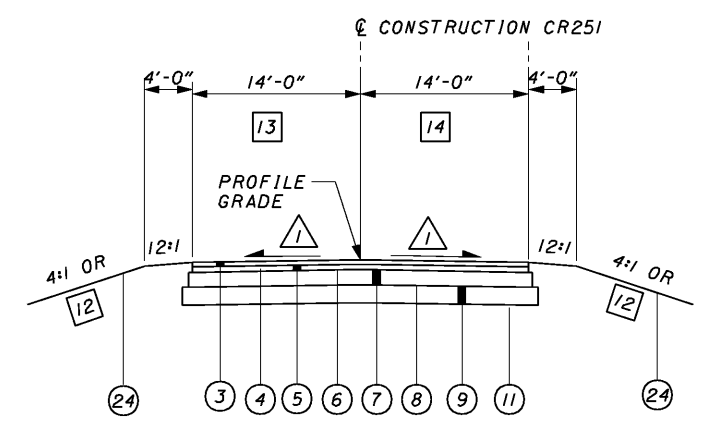
**SRI140  
NORMAL SECTION**

SRI140: STA. 3+00.00 TO STA. 4+81.15 = 181.15 LF



**SRI140  
NORMAL SECTION**

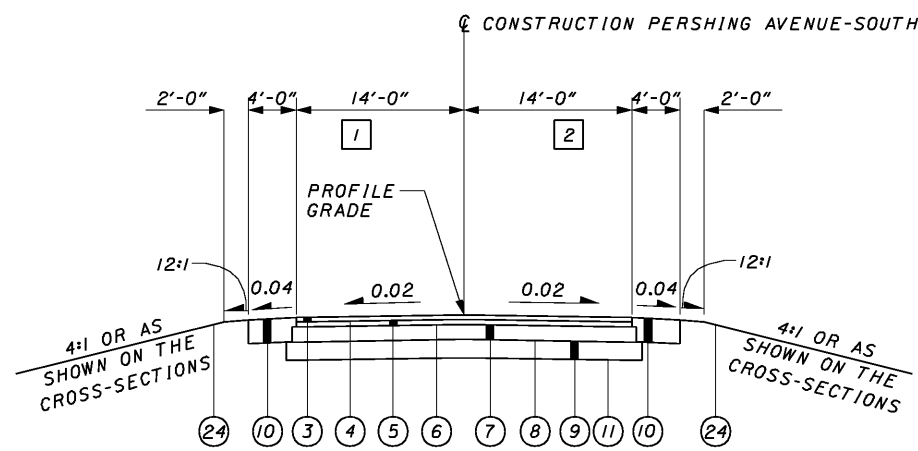
SRI140: STA. 16+76.64 TO STA. 17+91.74 = 115.10 LF



**CR251  
NORMAL SECTION**

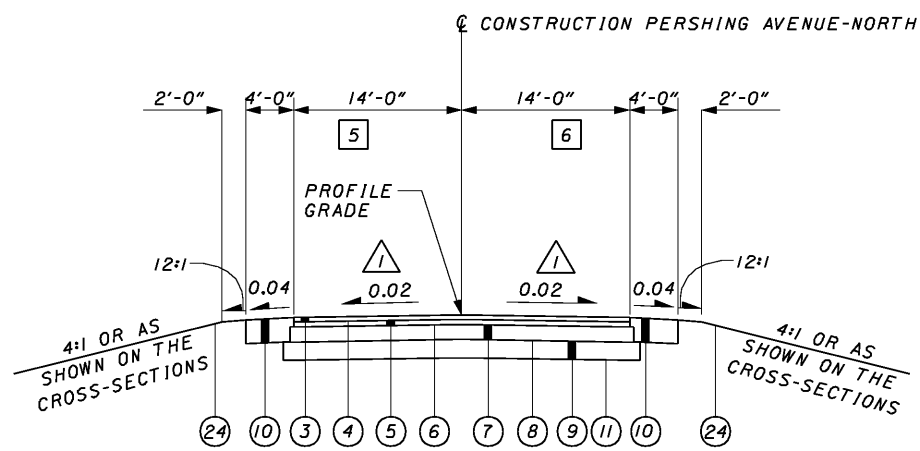
CR251: STA. 20+10.11 TO STA. 22+49.86 = 239.75 LF

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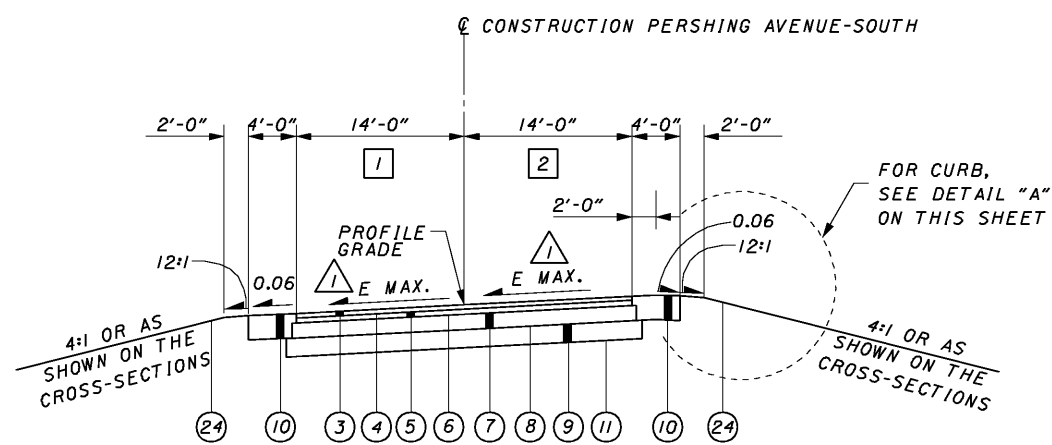
PERSHING AVENUE - SOUTH  
NORMAL SECTION

PERSHING AVENUE SOUTH: STA. 16+74.43 TO STA. 17+23.69 - 49.26 LF



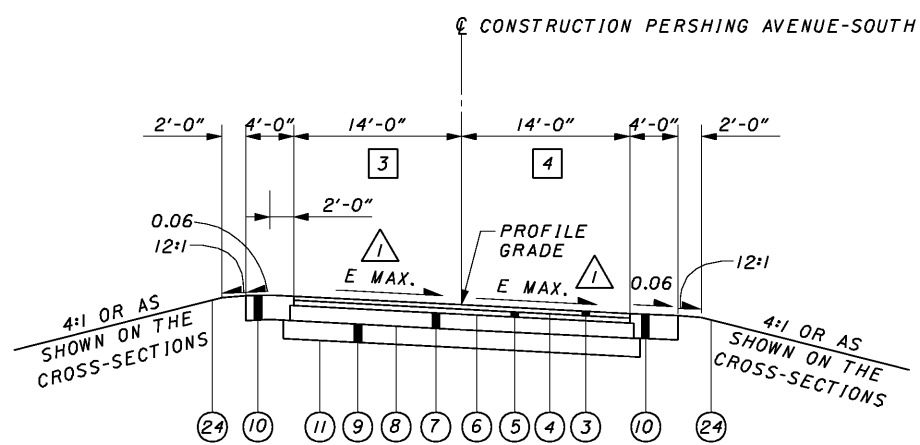
PERSHING AVENUE - NORTH  
NORMAL SECTION

PERSHING AVENUE NORTH: STA. 30+10.37 TO STA. 32+79.56 - 269.19 LF



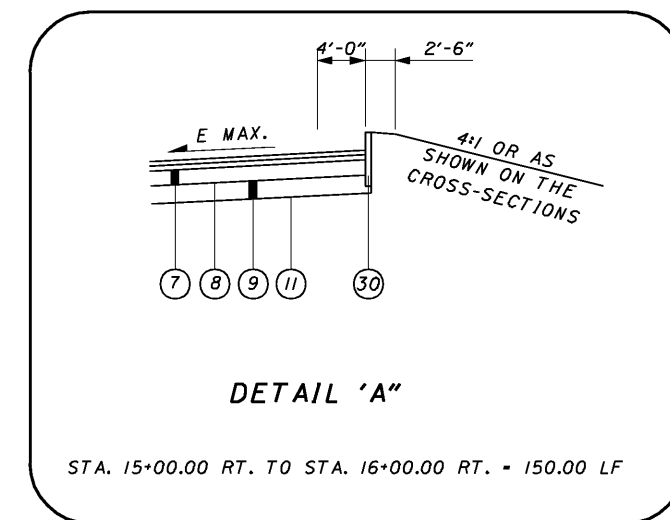
PERSHING AVENUE - SOUTH  
SUPERELEVATED SECTION

PERSHING AVENUE SOUTH: STA. 13+82.19 TO STA. 16+74.43 - 292.24 LF  
(E MAX. = 0.04)



PERSHING AVENUE - SOUTH  
SUPERELEVATED SECTION

PERSHING AVENUE SOUTH: STA. 17+23.69 TO STA. 19+89.15 - 265.46 LF (E MAX. = 0.04)

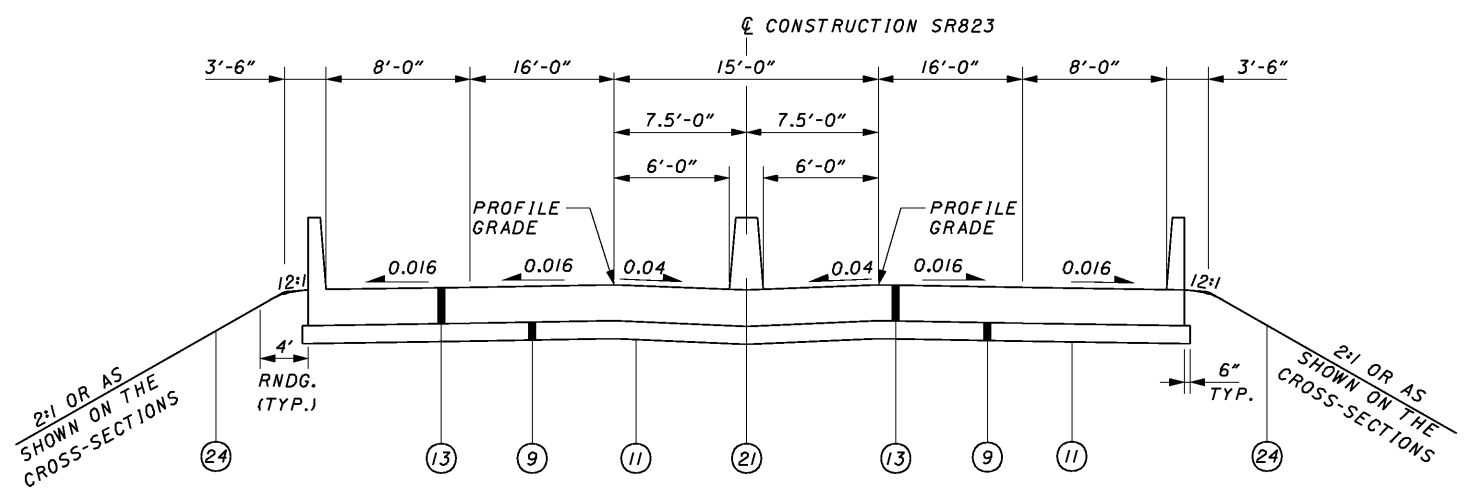


**NOTES:**

1. FOR LEGEND AND BASE STEP DETAIL SEE SHEET XX
2. FOR ROADSIDE SECTION SEE SHEET XX
3. FOR GUARDRAIL LOCATIONS SEE PLAN SHEETS

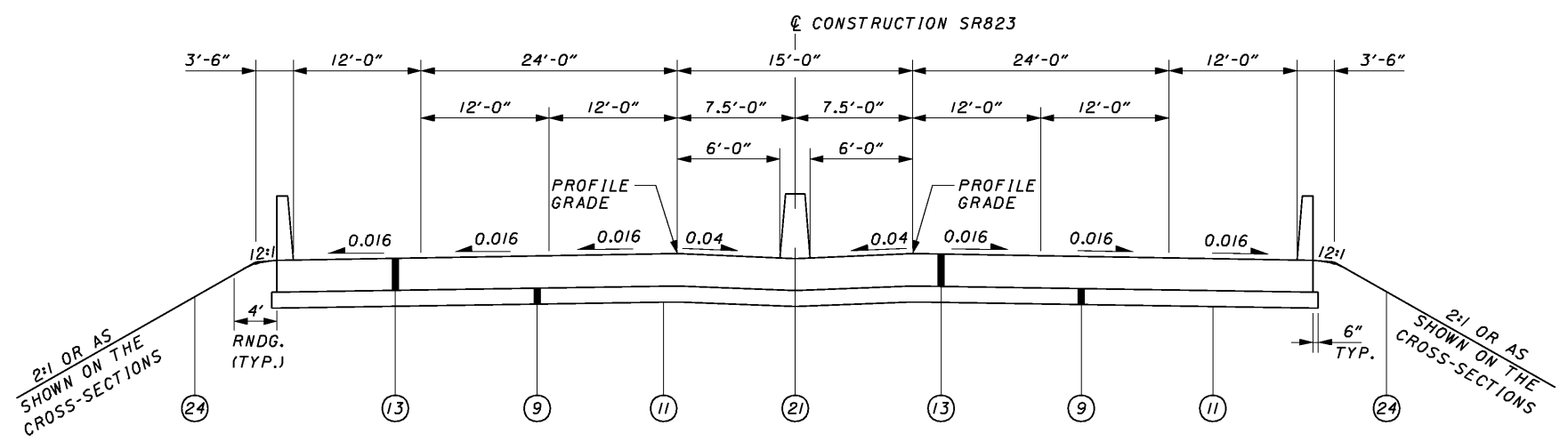
△ SLOPE VARIES, SEE SUPERELEVATION TABLE SHEET XXX.

- 1 PAVEMENT WIDTH VARIES FROM ±7.9 AT STA. 13+82.19 TO STA. 14.00 FT AT STA. 14+47.00.
- 2 PAVEMENT WIDTH VARIES FROM ±8.2 FT AT STA. 13+82.19 TO STA. 14.00 FT AT STA. 14+47.00.
- 3 SHOULDER WIDTH VARIES FROM 0.00 FT AT STA. 13+82.19 TO 4.00 FT AT STA. 14+47.00.
- 4 PAVEMENT WIDTH VARIES FROM 14.00 FT AT STA. 32+26.99 TO ±10.2 FT AT STA. 32+79.56.
- 5 PAVEMENT WIDTH VARIES FROM 14.00 FT AT STA. 32+26.99 TO ±11.2 FT AT STA. 32+79.56.
- 6 SHOULDER WIDTH VARIES FROM 4.00 FT AT STA. 32+26.99 TO STA. 0.00 FT AT STA. 32+79.56.



**APPROACH SLAB SECTION - SR823 OVER WEBSTER STREET (SR140)**

STA. 61+31.15 TO STA. 61+61.15 - 30.00 LF  
 SCI-823-0117 BRIDGE LIMITS  
 STA. 62+71.30 TO STA. 63+01.30 - 30.00 LF



**APPROACH SLAB SECTION - SR823 OVER CSXT RR**

STA. 112+54.14 TO STA. 112+84.14 - 30.00 LF  
 SCI-823-0214 BRIDGE LIMITS  
 STA. 117+64.86 TO STA. 117+94.86 - 30.00 LF

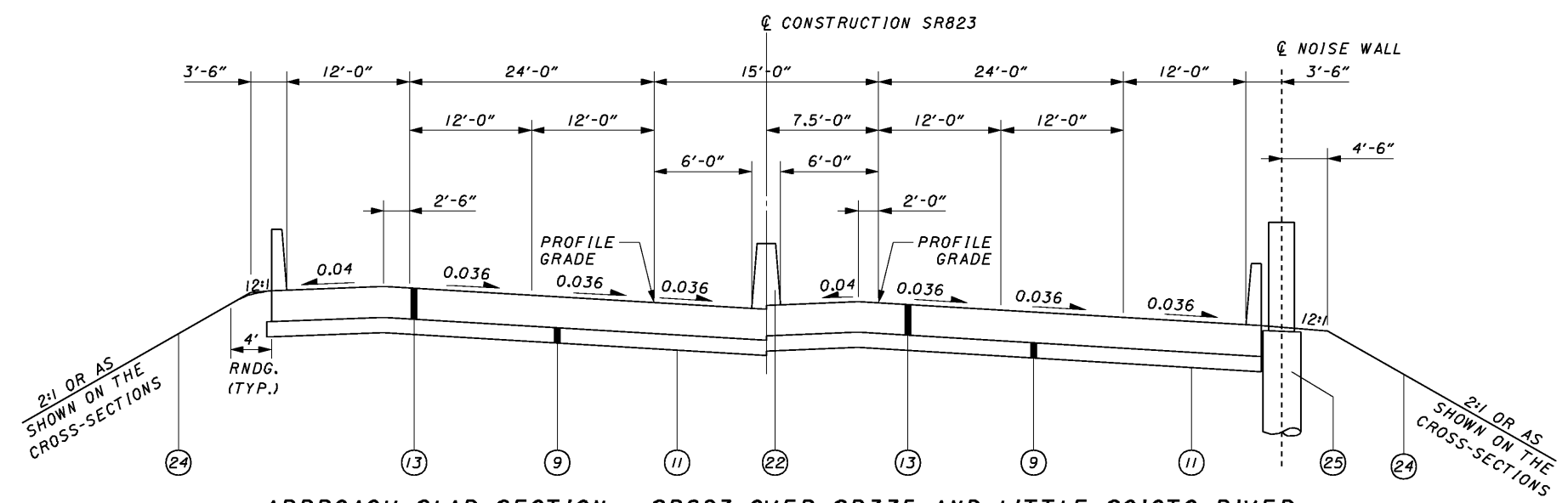
**APPROACH SLAB SECTION - SR823 OVER SLOCUM AVENUE (TR-248)**

STA. 120+67.83 TO STA. 120+97.83 - 30.00 LF  
 SCI-823-0229 BRIDGE LIMITS  
 STA. 124+24.32 TO STA. 124+54.32 - 30.00 LF

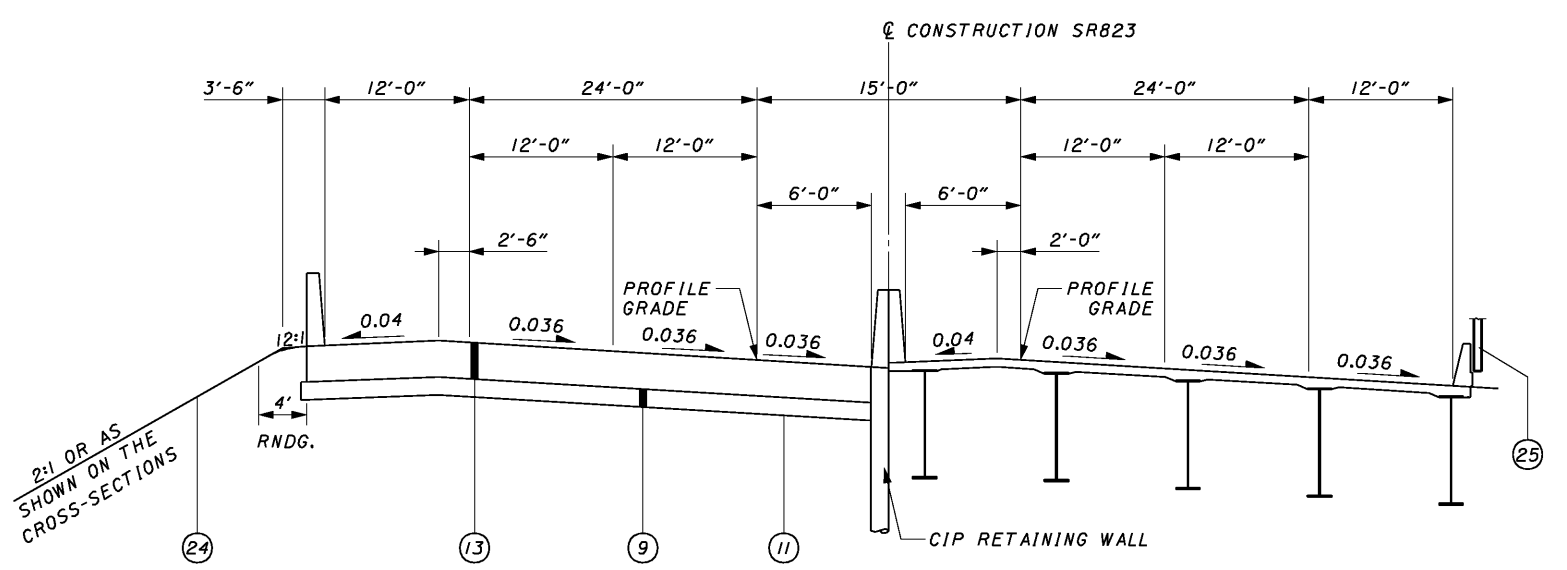
**NOTES:**

1. FOR LEGEND SEE SHEET XX

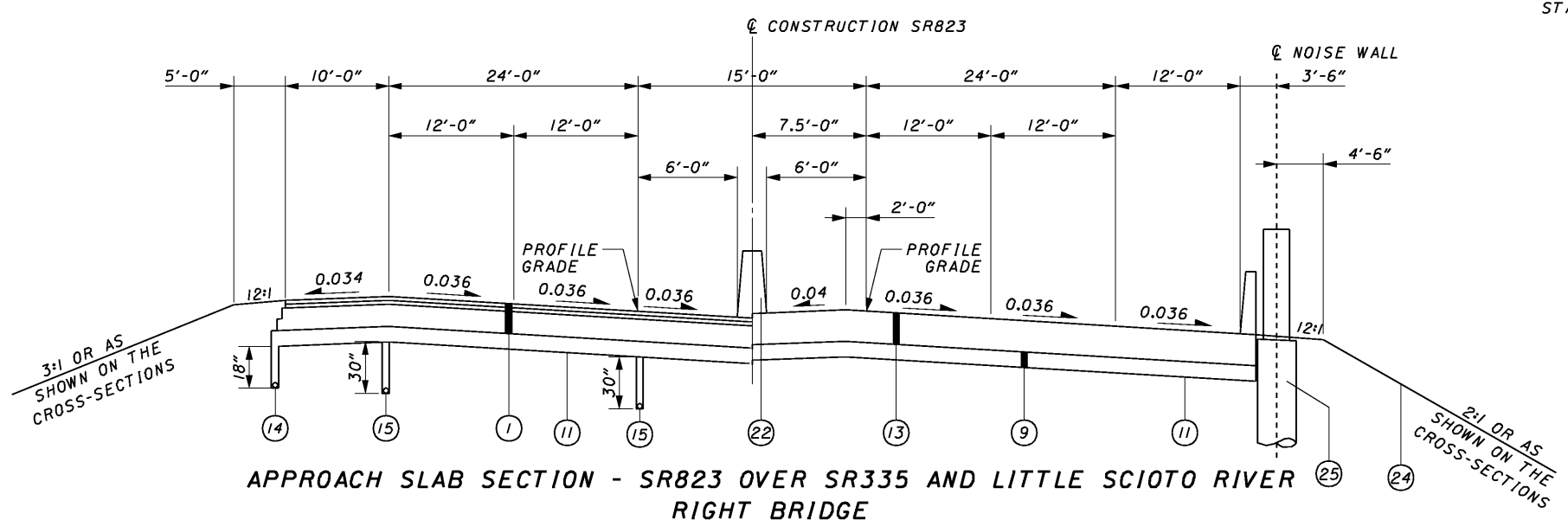
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APPROACH SLAB SECTION - SR823 OVER SR335 AND LITTLE SCIOTO RIVER  
LEFT BRIDGE & RIGHT BRIDGE  
STA. 130+42.50 TO STA. 130+72.50 - 30.00 LF



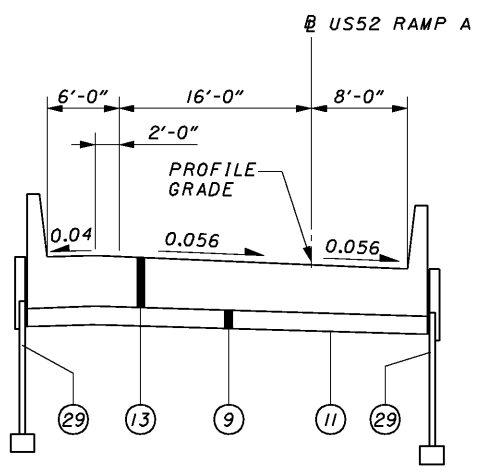
APPROACH SLAB SECTION - SR823 OVER SR335 AND LITTLE SCIOTO RIVER  
LEFT BRIDGE  
STA. 139+01.76 TO STA. 139+31.76 - 30.00 LF



APPROACH SLAB SECTION - SR823 OVER SR335 AND LITTLE SCIOTO RIVER  
RIGHT BRIDGE  
STA. 140+27.52 TO STA. 140+57.52 - 30.00 LF

- NOTES:**
1. FOR LEGEND SEE SHEET XX
  2. FOR GUARDRAIL LOCATIONS SEE PLAN SHEETS

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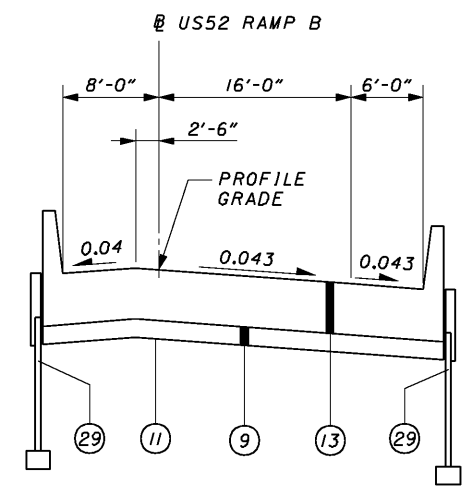


**APPROACH SLAB SECTION - US52 RAMP A OVER OHIO RIVER ROAD (CR503)**

STA. 38+84.64 TO STA. 39+14.64 - 30.00 LF

SCI-823-0074R BRIDGE LIMITS

STA. 41+52.57 TO STA. 41+82.57 - 30.00 LF



**APPROACH SLAB SECTION - US52 RAMP B OVER US52 AND OHIO RIVER ROAD (CR503)**

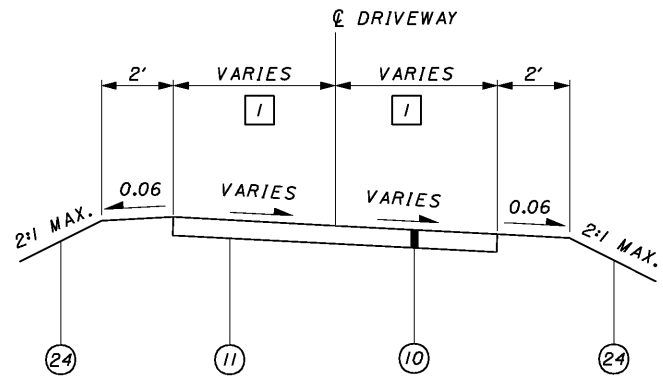
STA. 35+12.74 TO STA. 35+42.74 - 30.00 LF

SCI-823-0067L BRIDGE LIMITS

STA. 42+40.76 TO STA. 42+70.76 - 30.00 LF

**NOTES:**

1. FOR LEGEND SEE SHEET XX



**DRIVEWAY SECTION**

SRI40: STA. 3+78.26 RT.

SRI40: STA. 6+54.78 RT.

PERSHING AVENUE SOUTH: STA. 17+50.00 LT.

**NOTES:**

1. FOR LEGEND AND BASE STEP DETAIL SEE SHEET XX

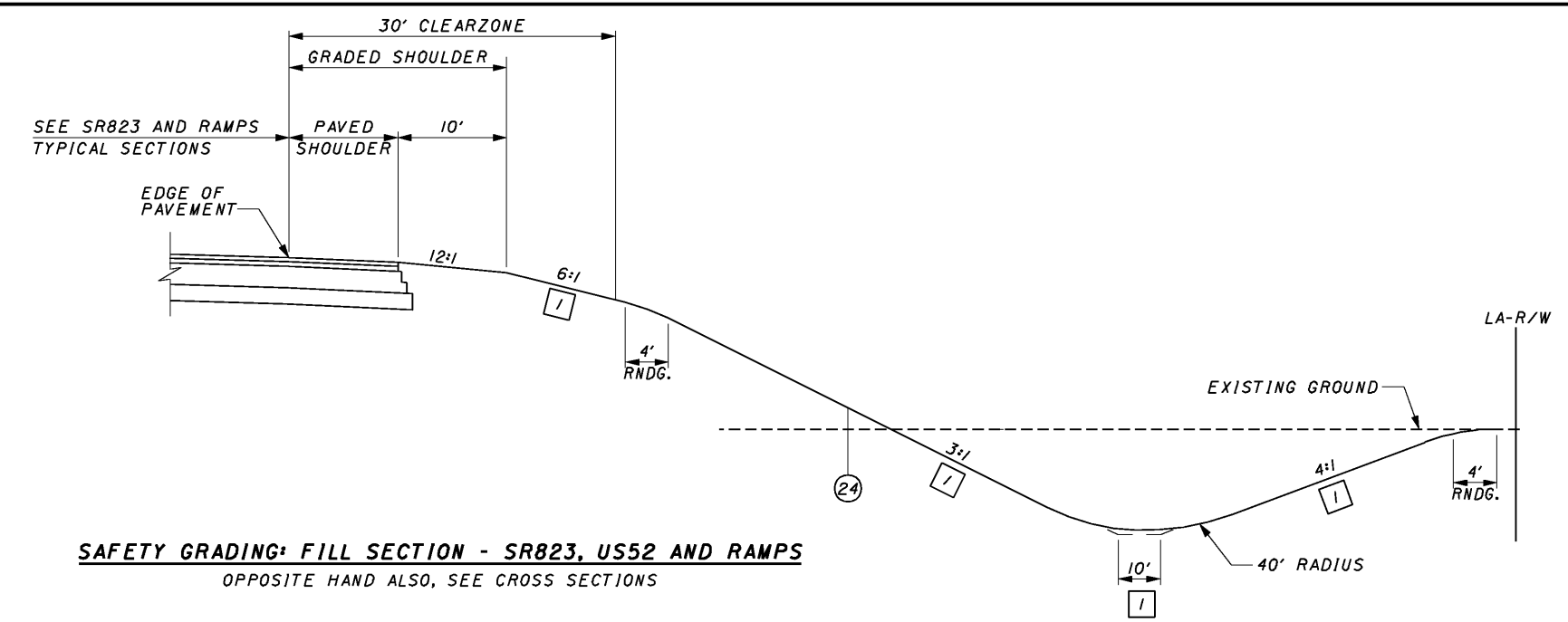
**1** SEE DRIVEWAY DETAILS SHEET XX OR PLAN SHEET



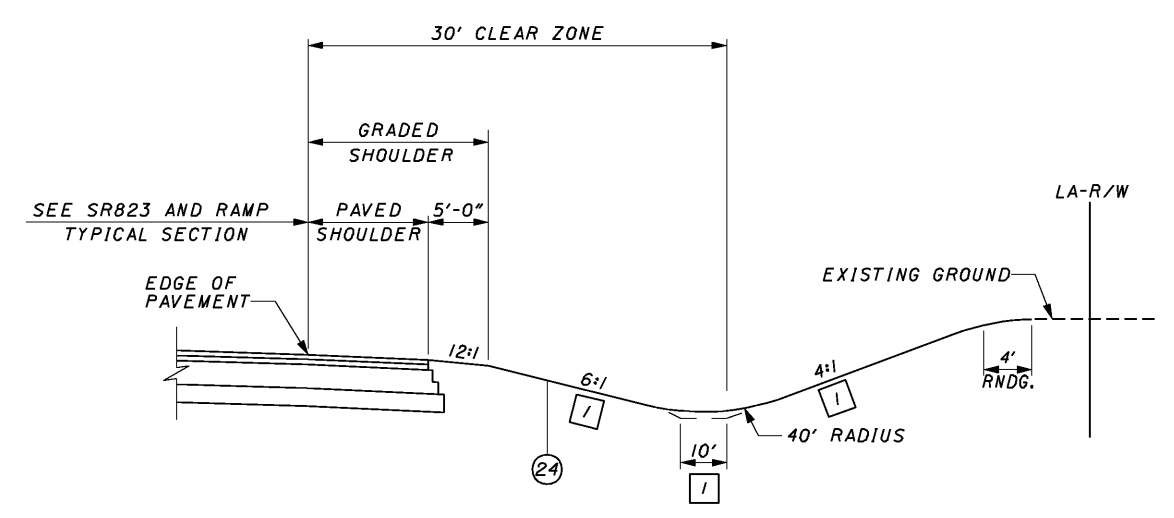
**NOTES:**

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.

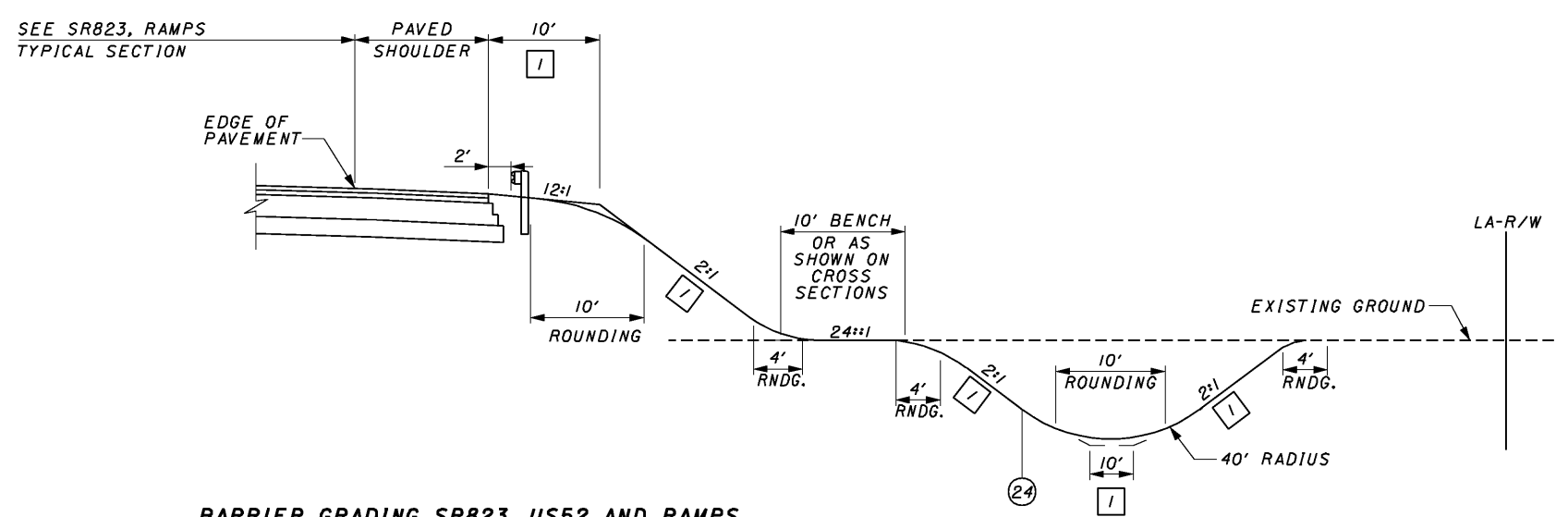
1 OR AS SHOWN ON CROSS SECTIONS.



**SAFETY GRADING: FILL SECTION - SR823, US52 AND RAMPS**  
OPPOSITE HAND ALSO, SEE CROSS SECTIONS

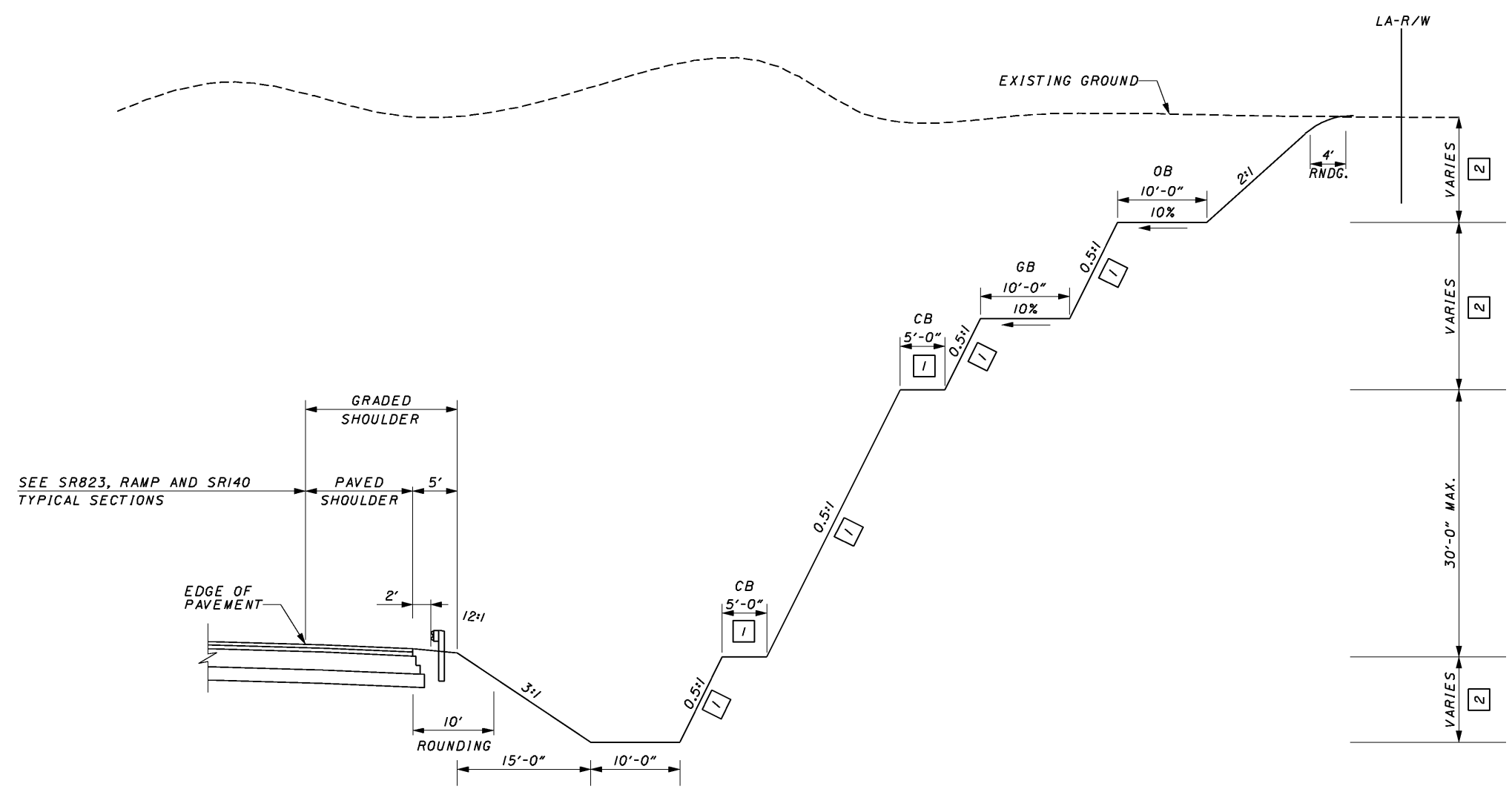


**SAFETY GRADING CUT SECTION - SR823, US52 AND RAMPS**  
OPPOSITE HAND ALSO, SEE CROSS SECTIONS



**BARRIER GRADING SR823, US52 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, RAMPS AND SRI40**  
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  
CHECKED  
RN

GENERAL NOTES

SCI-823-0.00

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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.J 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
SS5265M	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.

**ITEM 606 - IMPACT ATTENUATOR, TYPE 3-98**

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING EITHER OF THE FOLLOWING IMPACT ATTENUATORS:

1) QUADGUARD LMC (11 BAY UNIT) MANUFACTURED BY ENERGY ABSORPTION SYSTEMS, INC., ONE EAST WACKER DRIVE, CHICAGO, IL 60601 (TELEPHONE: 312-467-6750).

THE LENGTH OF THE QUADGUARD LMC IS 33'-4". IT IS 36" WIDE AT THE TENSION STRUT BACKUP AND 48" WIDE OVER-ALL. IT IS 32" TALL. 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
QLTSCVR-U	QUADGUARD LMC SYSTEM WITH TENSION STRUT BACKUP		12/12/97 3/6/98
		Rev. A	

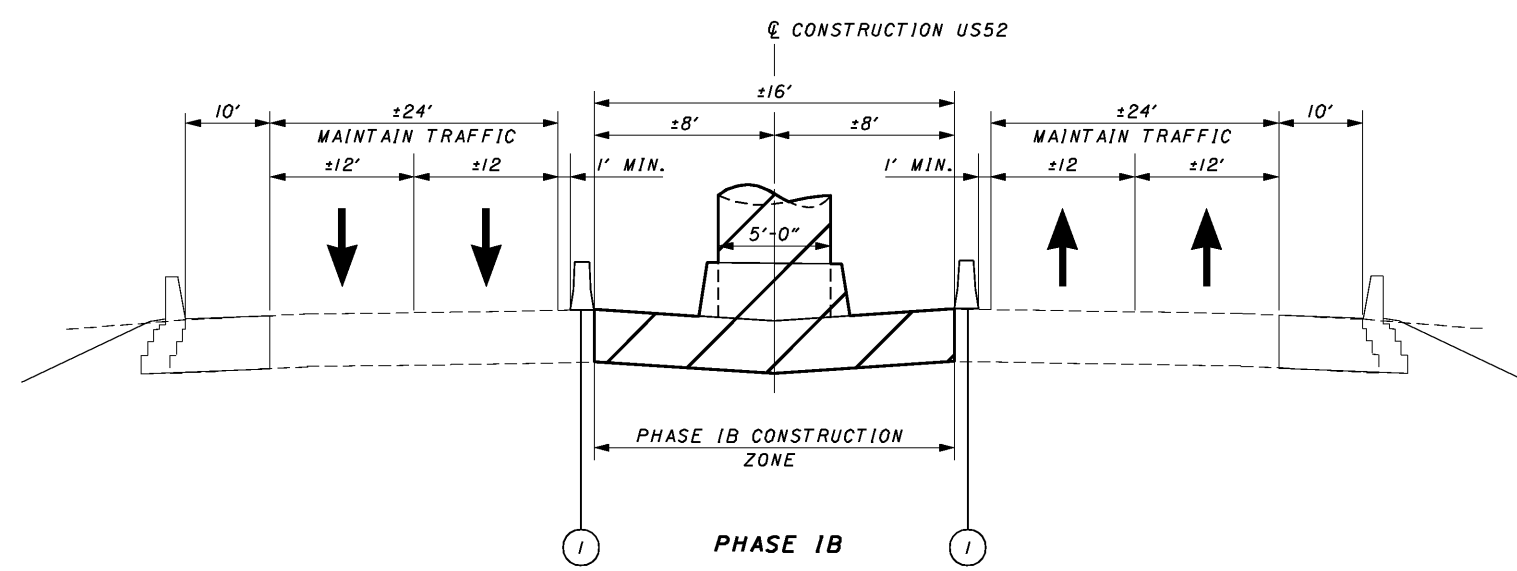
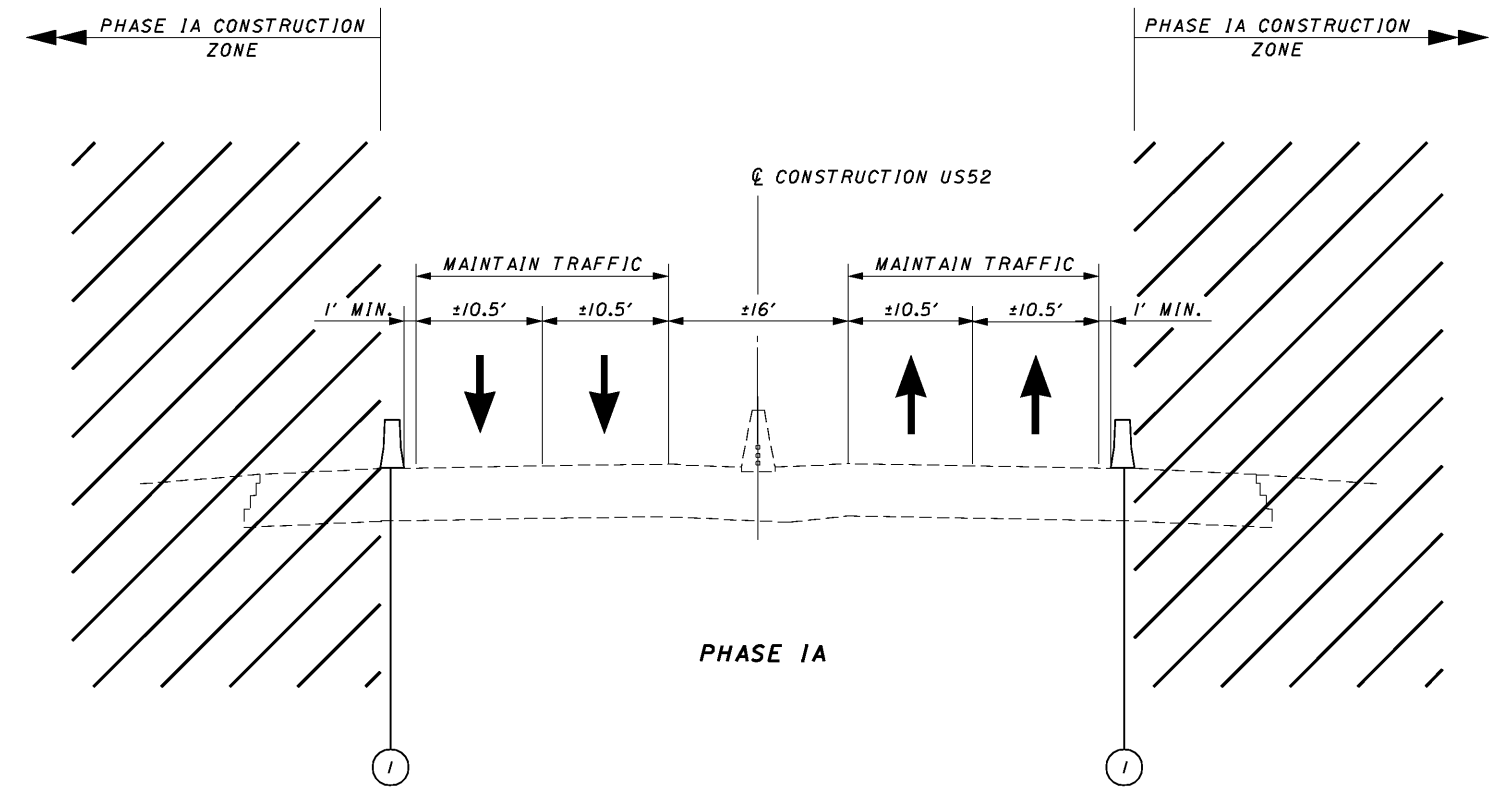
2) REACT 350.9 MANUFACTURED BY ROAD SAFETY SERVICE, INC., 80 REMINGTON BLVD., RONKONKOMA, NY 11779-6910 (TELEPHONE: 516-588-6200 OR 516-262-3324).

THE LENGTH OF THE REACT 350.9 IS 27'-6". IT IS 36" WIDE AND 48" TALL.

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
RSS-RCT-97003-01	REACT 350 SHEET 1 OF 4		12/15/97 3/6/98

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, IMPACT ATTENUATOR, TYPE 3-98, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.



**MAINTENANCE-OF-TRAFFIC SEQUENCE OF OPERATION**

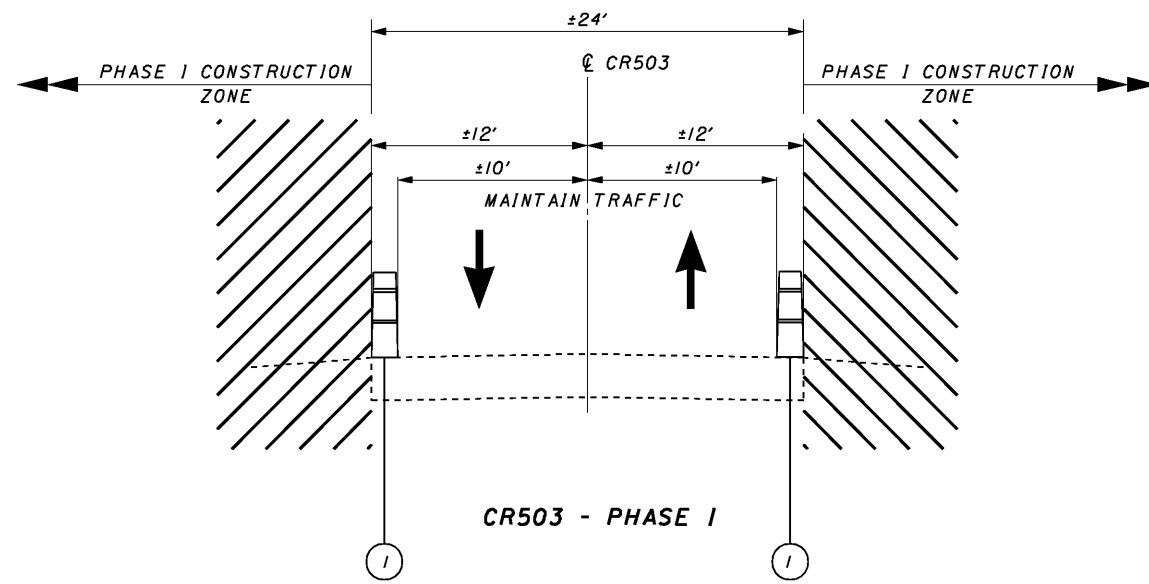
**PHASE IA**  
SAW CUT EXISTING PAVEMENT AND CONSTRUCT PROPOSED ACCELERATION AND DECELERATION LANES FOR US52 RAMPS A AND B. MAINTAIN TWO LANES OF TRAFFIC IN EACH DIRECTION.

**PHASE IB**  
SAW CUT EXISTING PAVEMENT AND CONSTRUCT PROPOSED BRIDGE PIER AND MEDIAN BARRIER. MAINTAIN TWO LANES OF TRAFFIC IN EACH DIRECTION.

**LENGEND**

① TEMPORARY PORTABLE CONCRETE BARRIER

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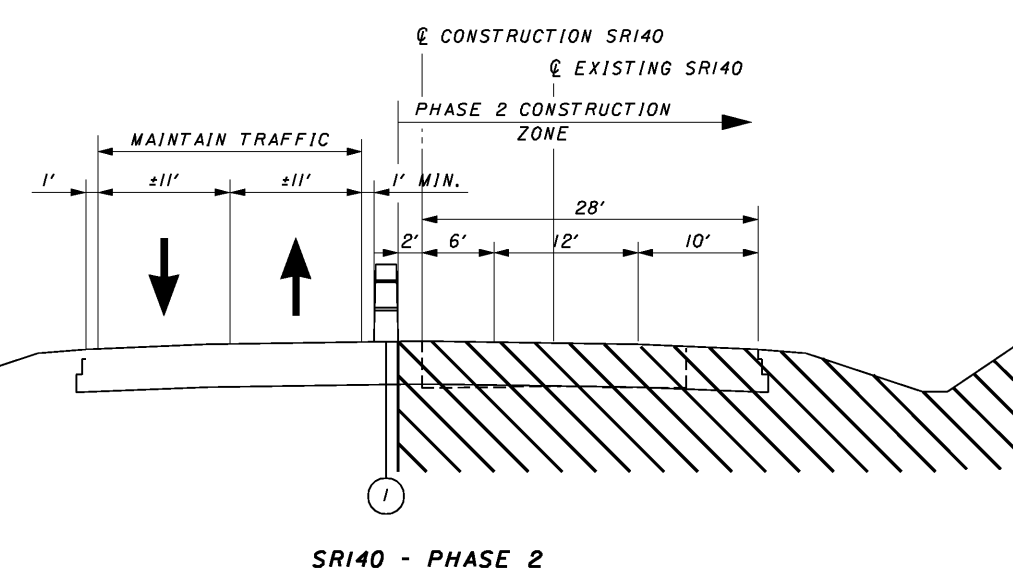
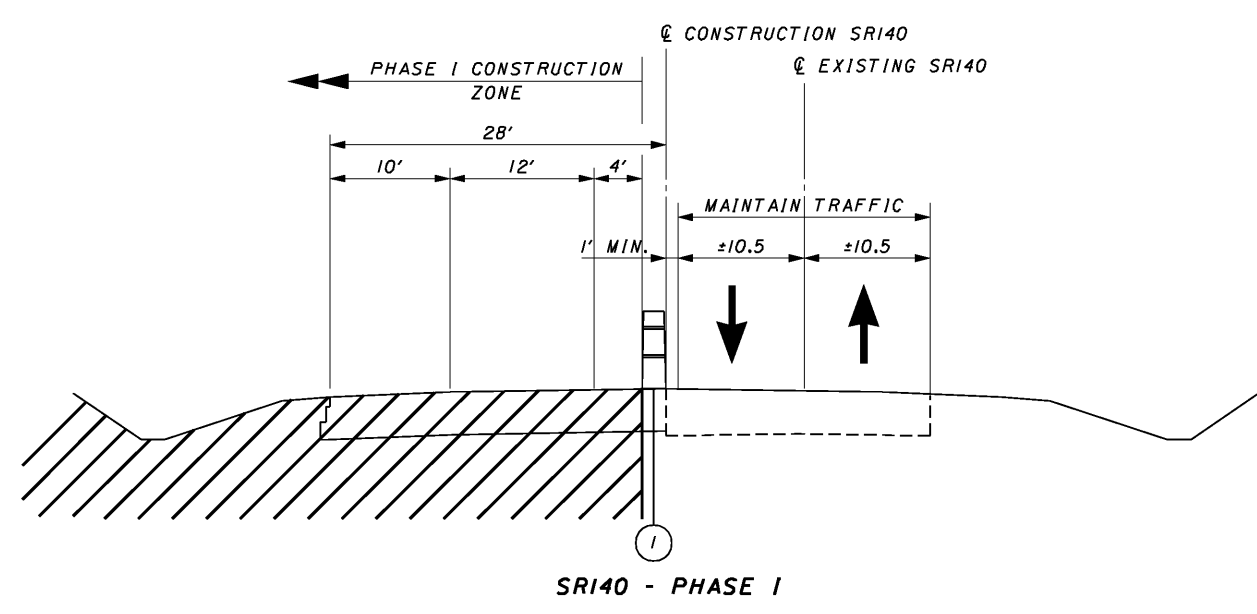
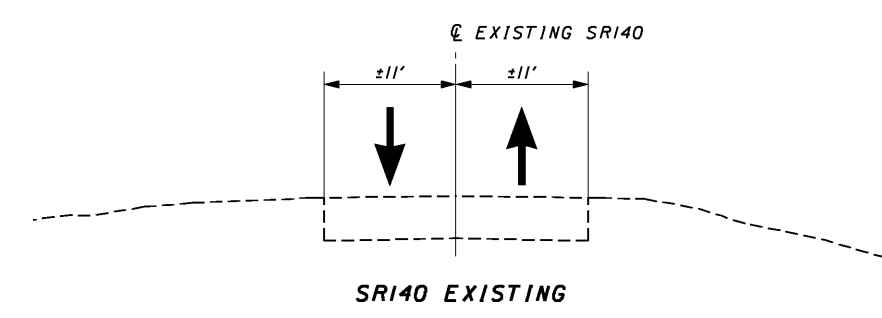
**MAINTENANCE-OF-TRAFFIC SEQUENCE OF OPERATIONS**

**PHASE I**

SAWCUT ALONG EXISTING PAVEMENT AND CONSTRUCT COCNCRETE BARRIER, SHOULDERS, AND DITCHES AS SHOWN ON THE PLAN SHEETS AND CROSS-SECTION. MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION.

**LEGEND**

(I) DRUM OR CONE



**MAINTENANCE-OF-TRAFFIC SEQUENCE OF OPERATIONS**

- PHASE 1**
1. CONSTRUCT PROPOSED WIDENING OF PAVEMENT, TO THE LEFT OF PROPOSED SR140 Ⓞ. MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION.
  2. USE FLAGGERS AND/OR LAW ENFORCEMENT AT BOTH ENDS WHEN TIEING IN THE PROPOSED SR140 TO THE EXISTING SR140.
- PHASE 2**
1. CONSTRUCT PROPOSED WIDENING OF PAVEMENT, TO THE RIGHT OF PROPOSED SR140 Ⓞ. MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION.
  2. USE FLAGGERS AND/OR LAW ENFORCEMENT AT BOTH ENDS WHEN TIEING IN THE PROPOSED SR140 TO THE EXISTING SR140.

**LEGEND**

(1) DRUM OR CONE

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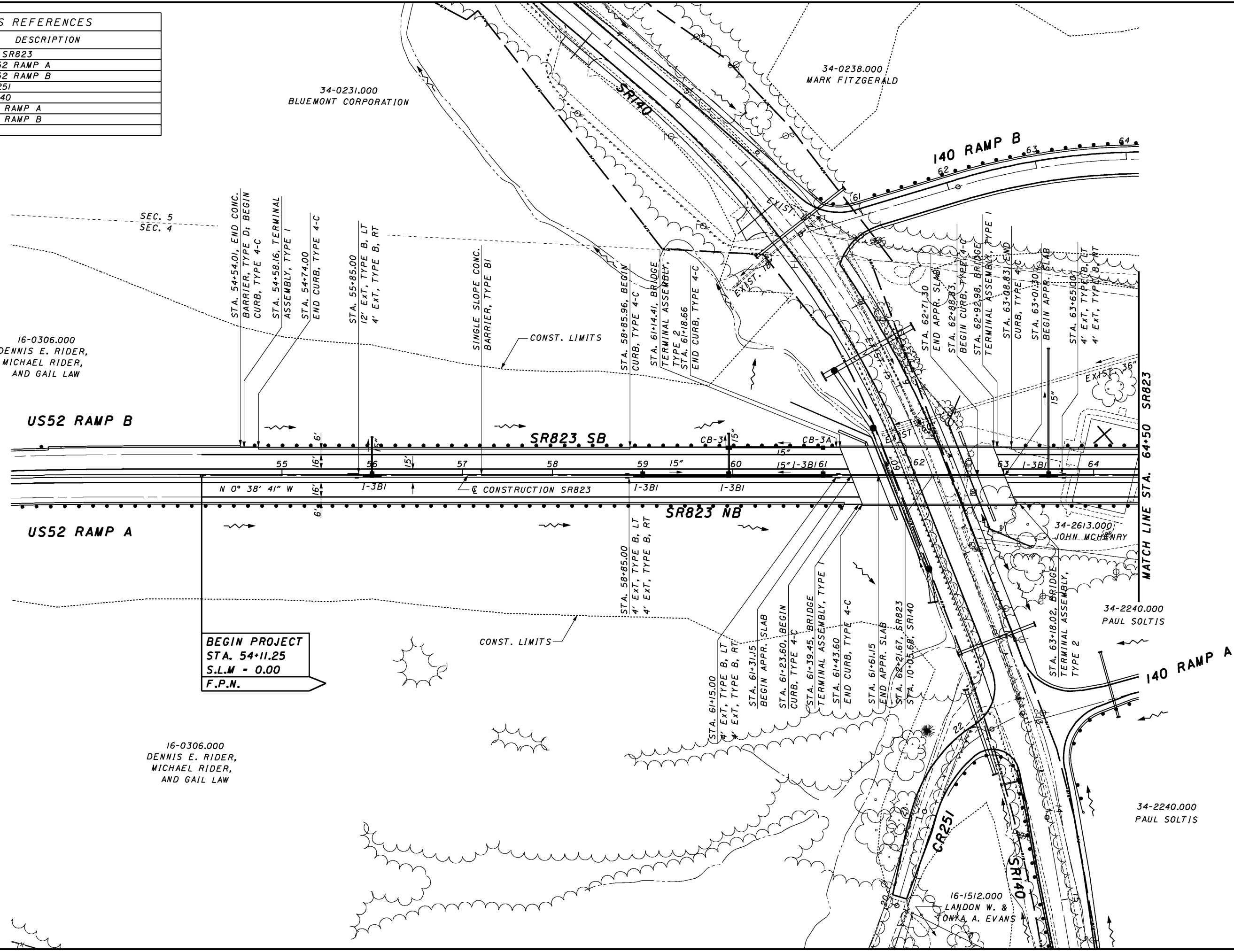
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	PLAN US52 RAMP B
	PLAN CR251
	PLAN SR140
	PLAN 140 RAMP A
	PLAN 140 RAMP B



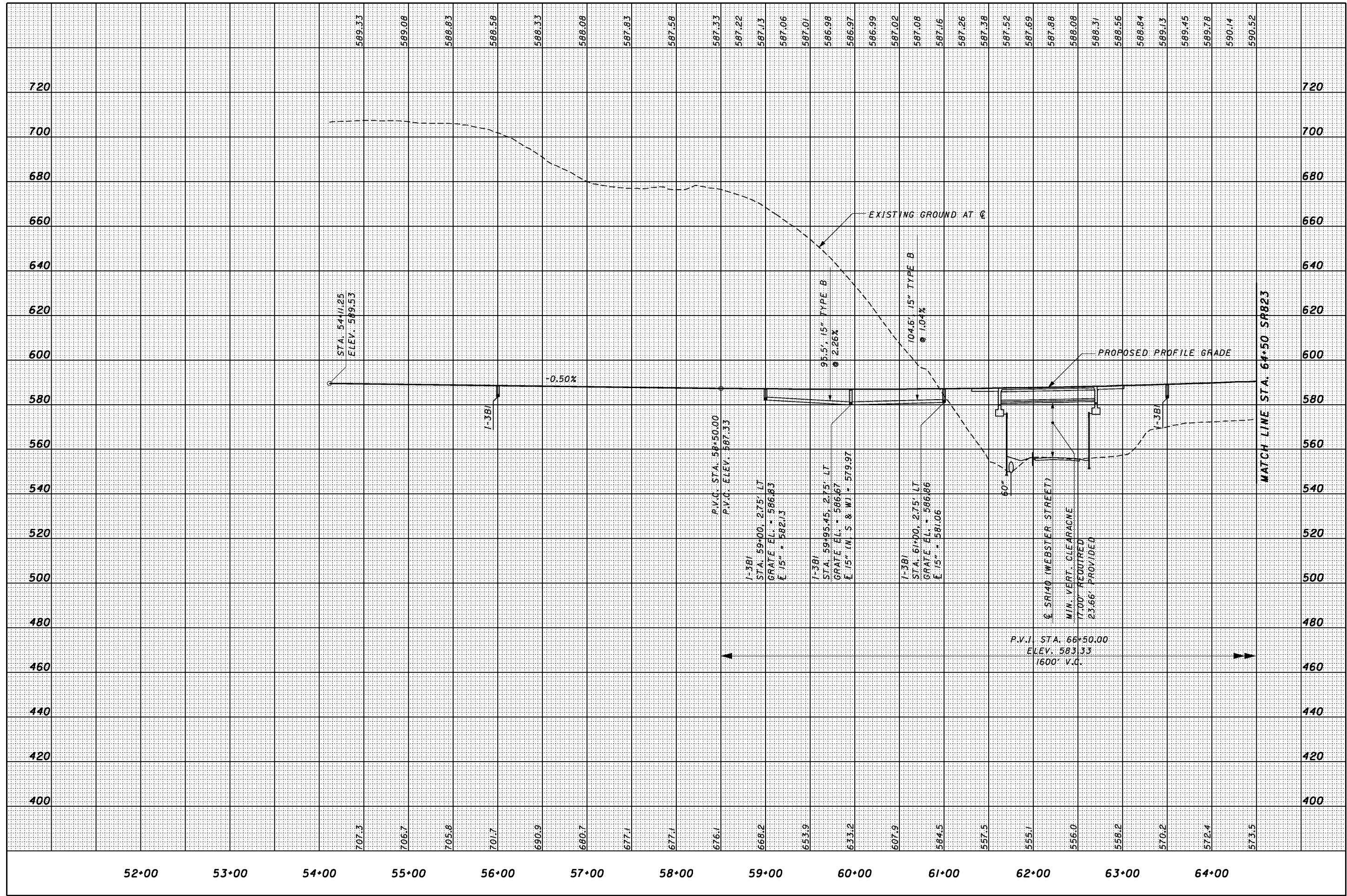
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44



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52+00

53+00

54+00

55+00

56+00

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59+00

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62+00

63+00

64+00

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JFA  
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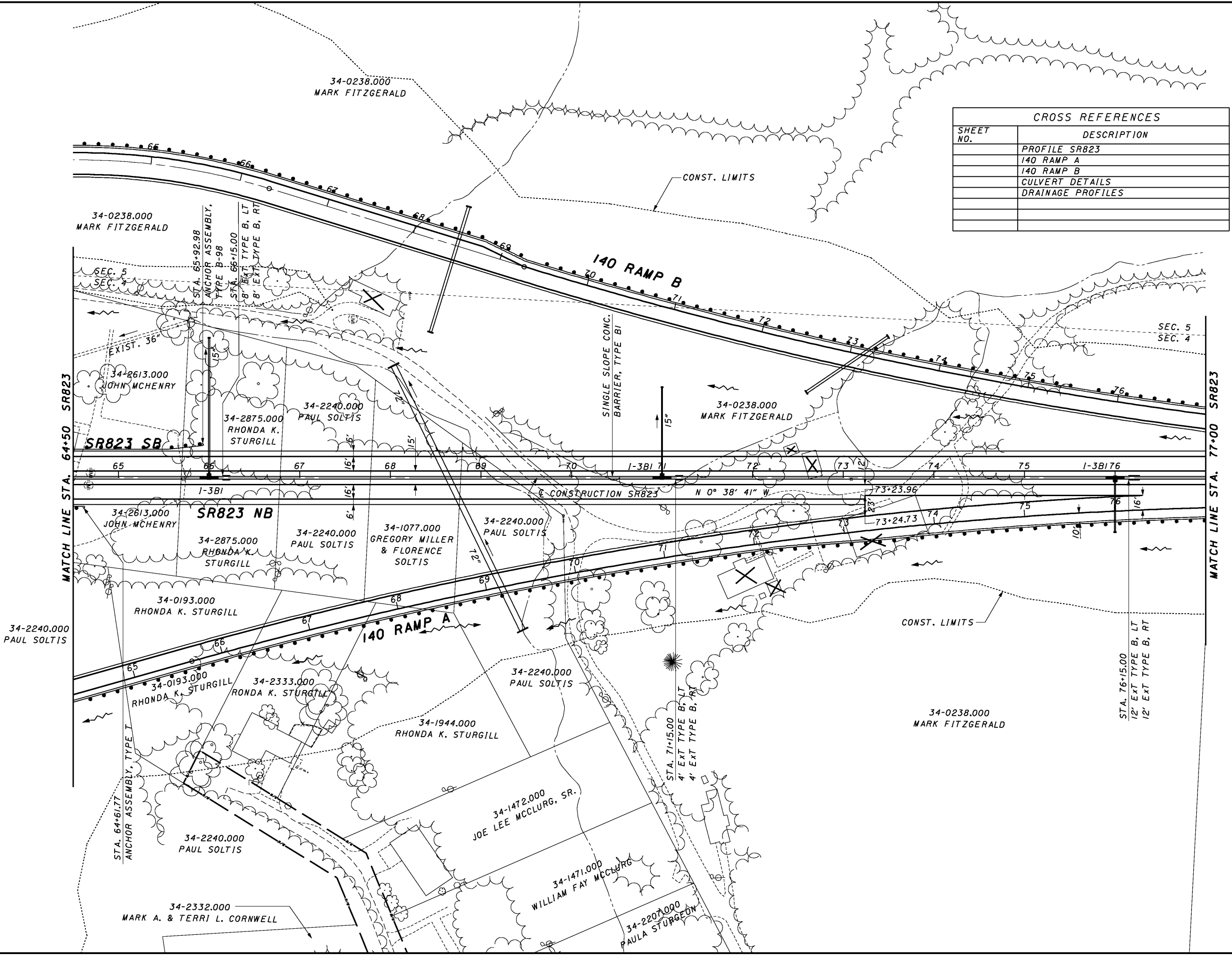
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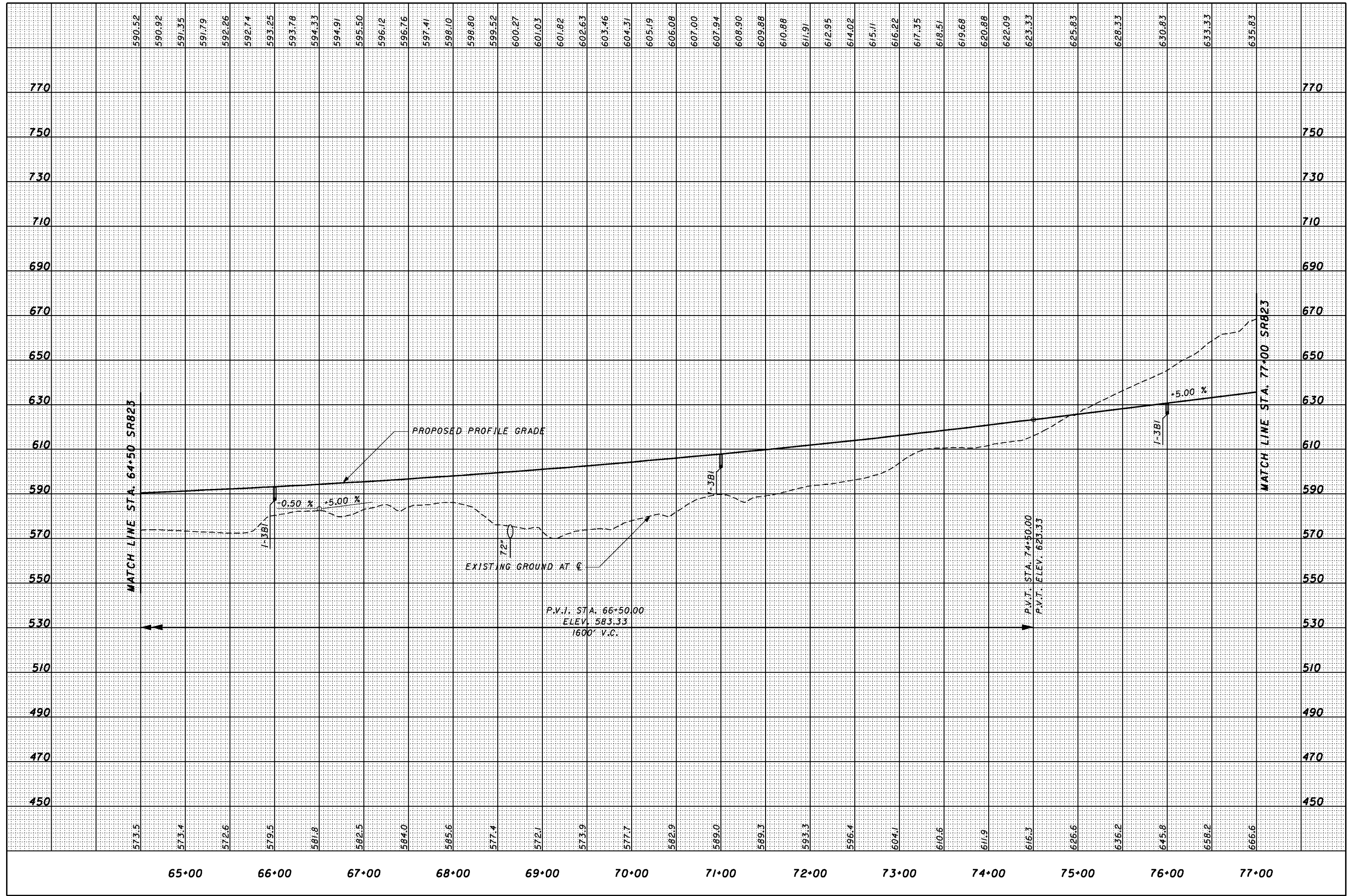
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	140 RAMP B
	CULVERT DETAILS
	DRAINAGE PROFILES



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JFA  
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34-0236.000  
MARK FITZGERALD

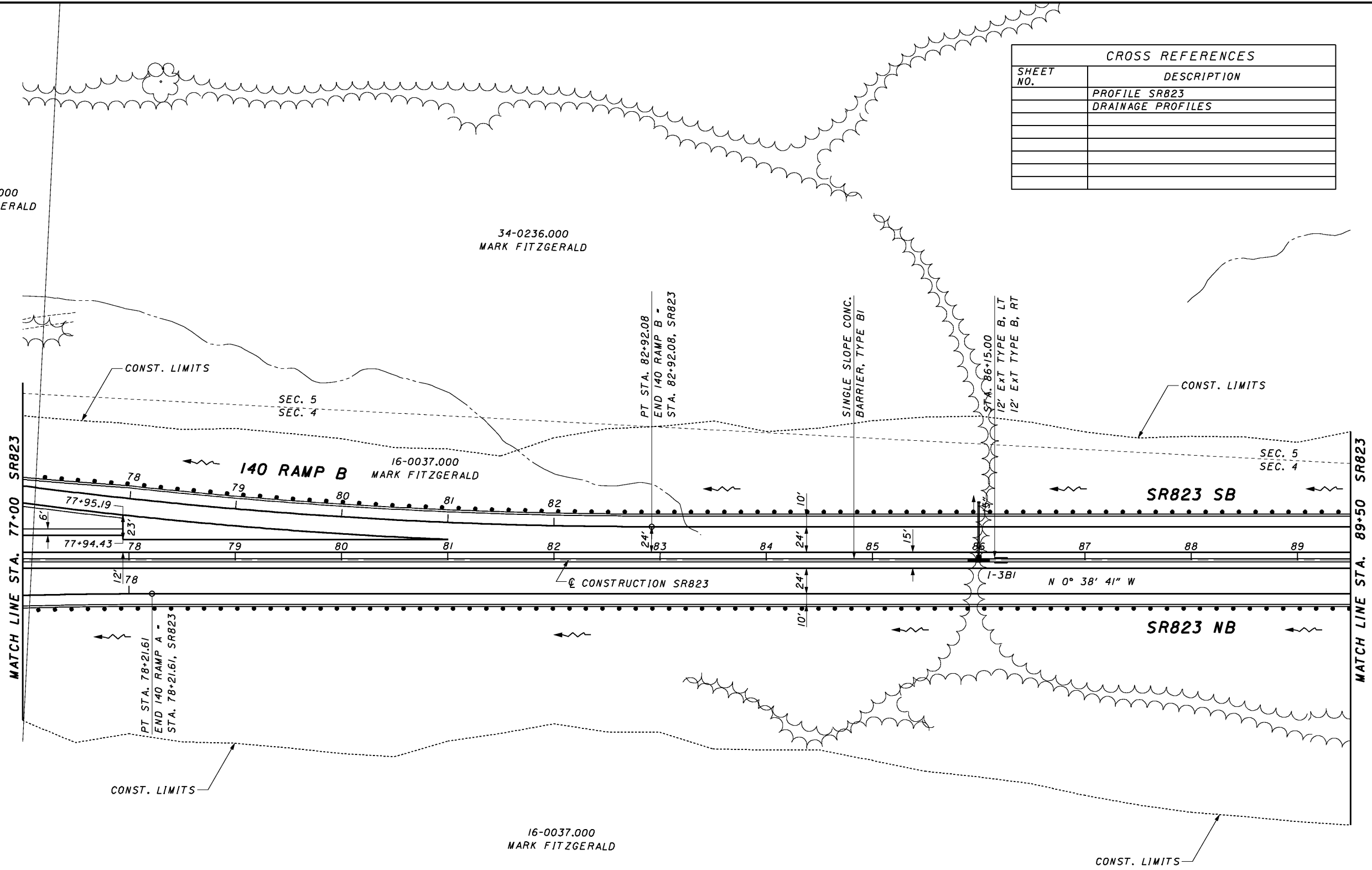
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MARK FITZGERALD

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	DRAINAGE PROFILES

CALCULATED DL  
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HORIZONTAL SCALE IN FEET



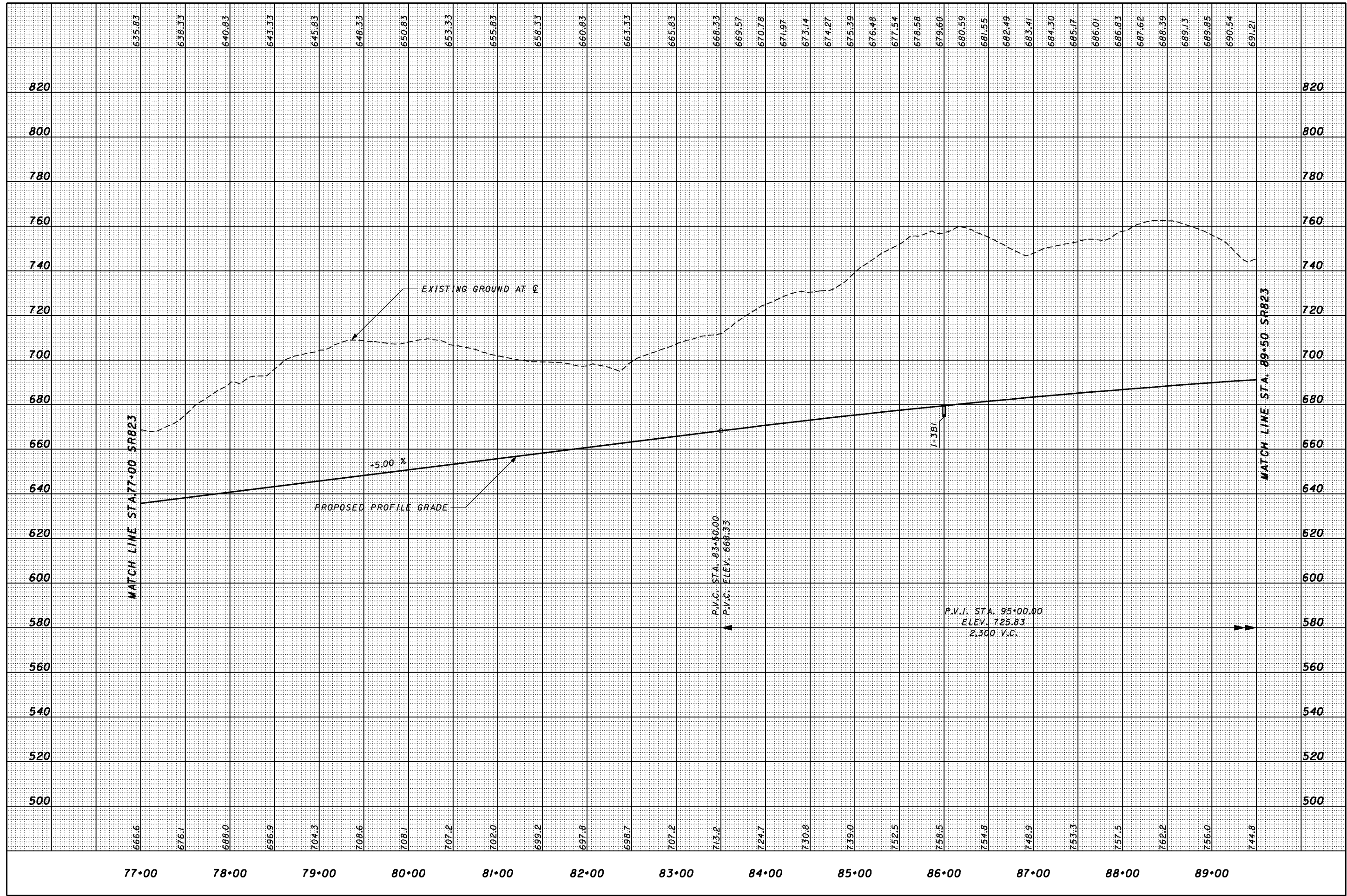
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48



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JFA  
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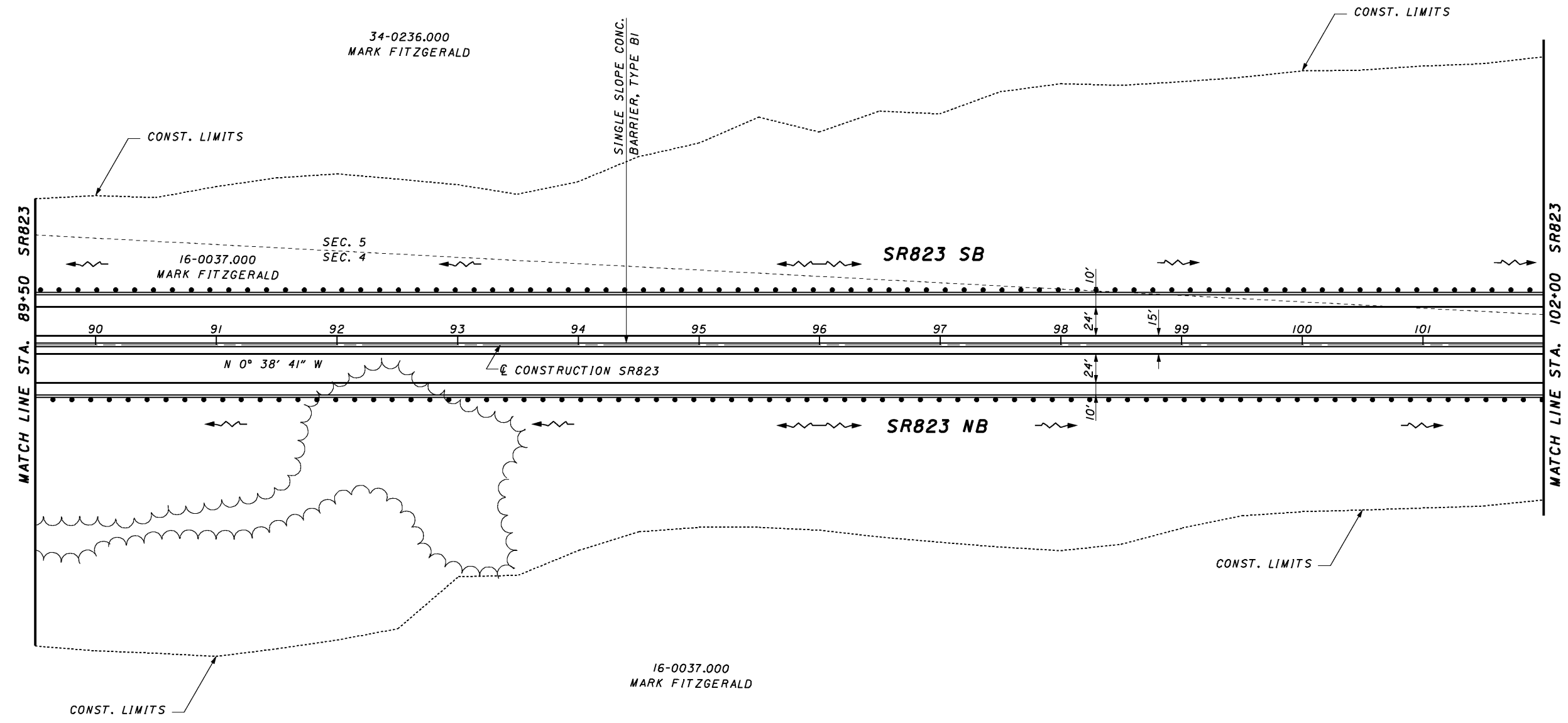
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HORIZONTAL SCALE IN FEET



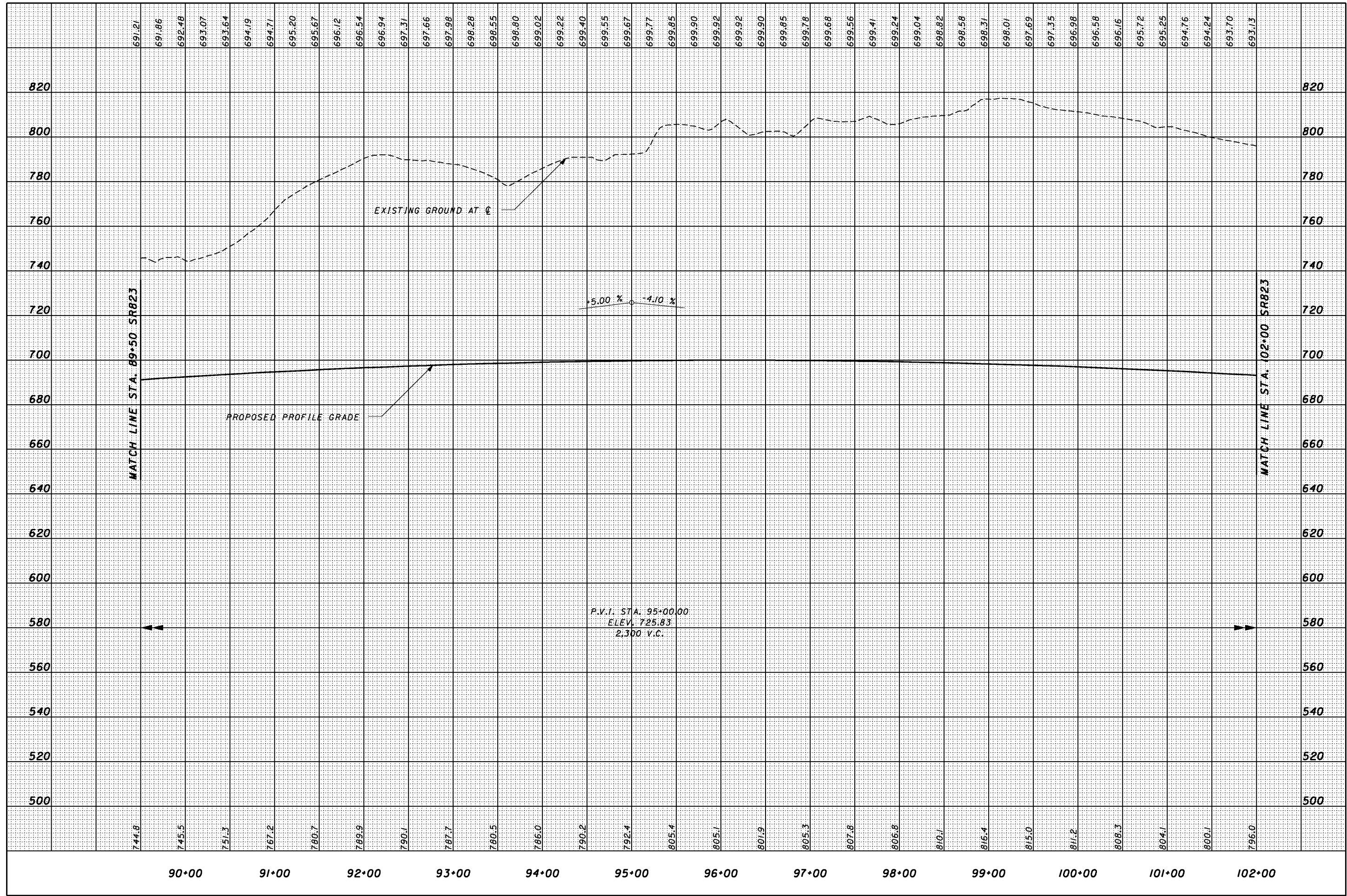
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50

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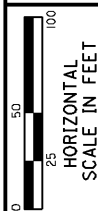
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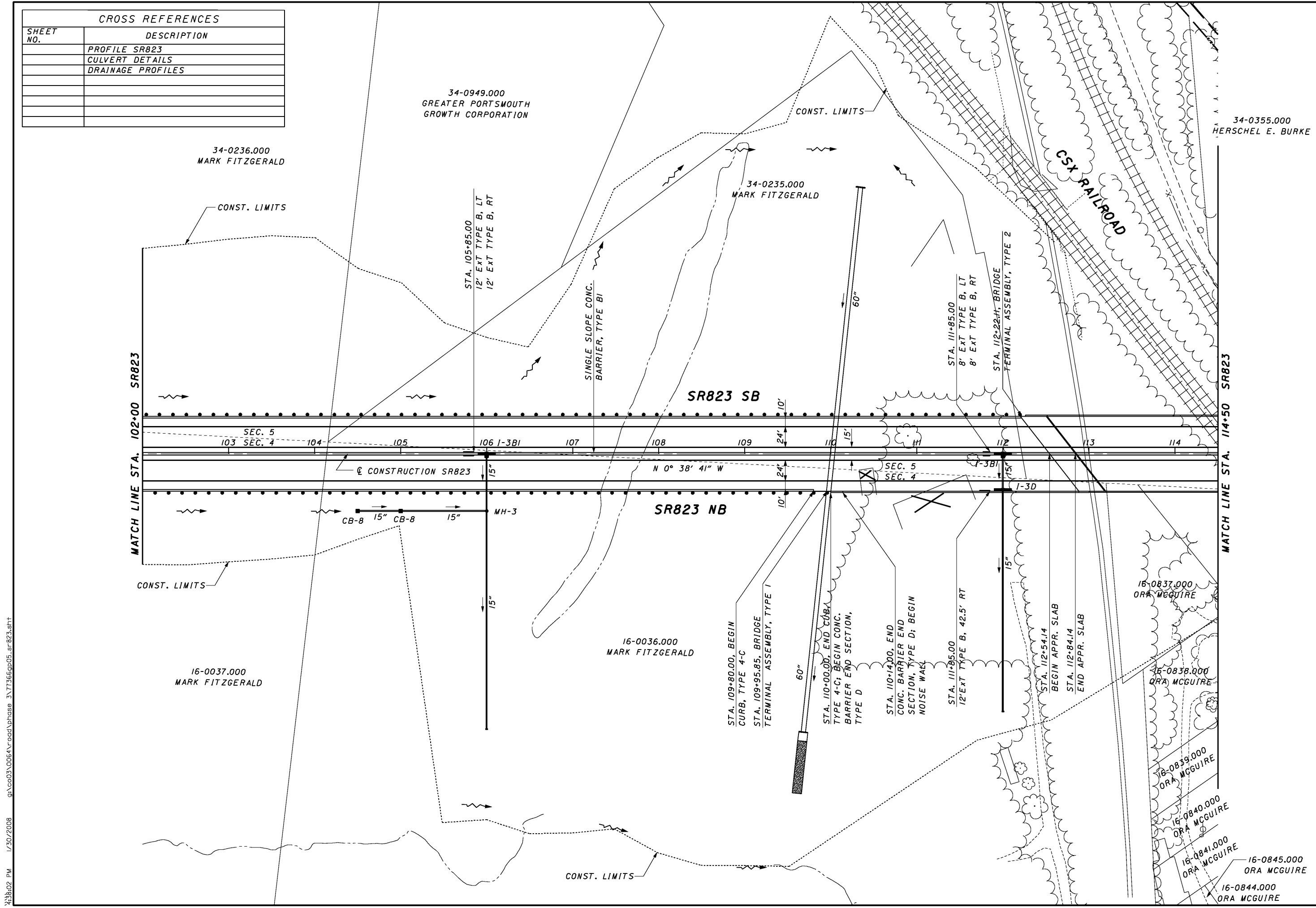
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	CULVERT DETAILS
	DRAINAGE PROFILES



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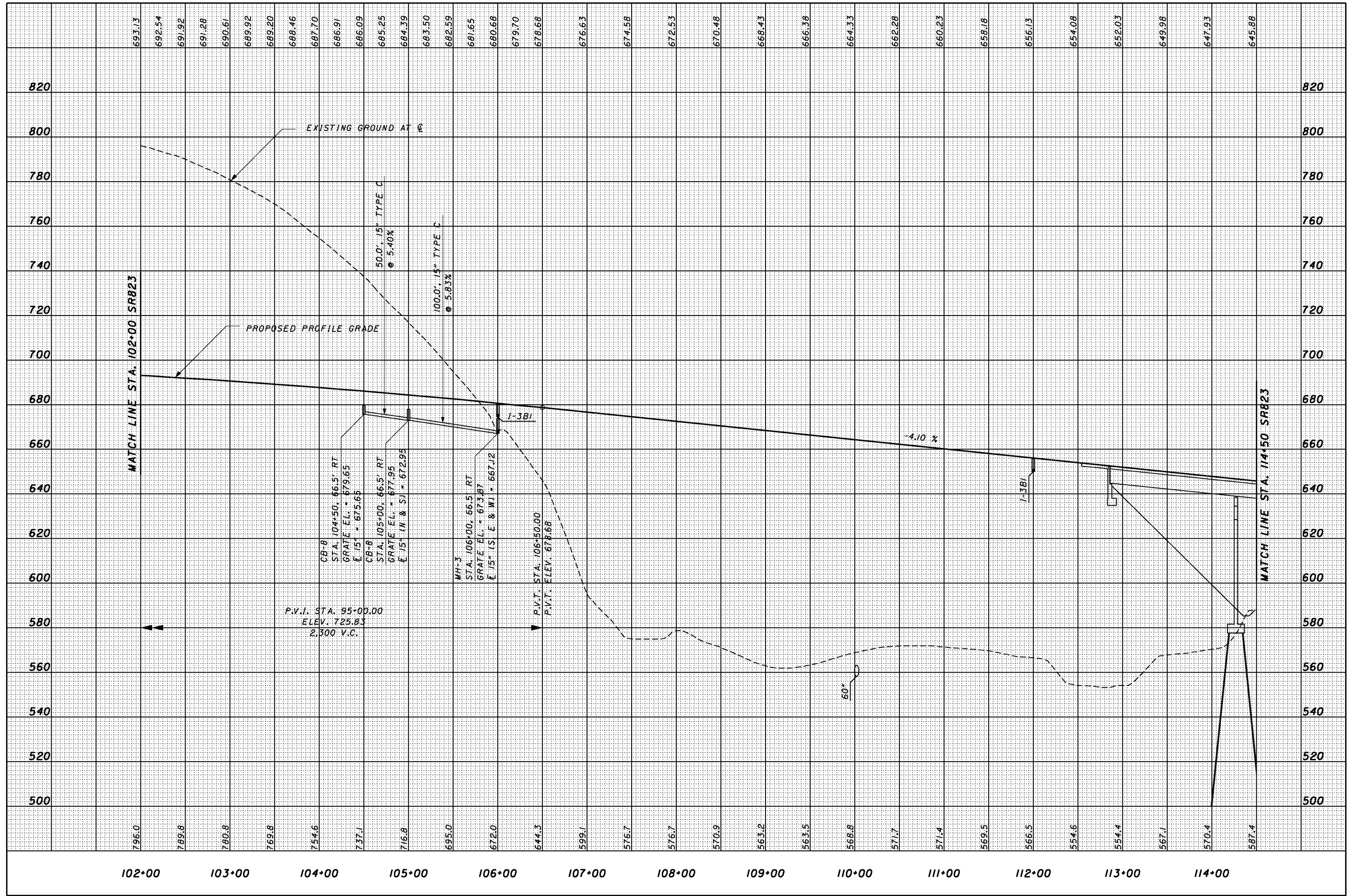
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STA. 102+00.00 TO STA. 114+50.00

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796.0	789.8	780.8	769.8	754.6	737.1	716.8	695.0	672.0	644.3	599.1	576.7	576.7	570.9	563.2	563.5	568.8	571.7	571.4	569.5	566.5	554.6	554.4	567.1	570.4	587.4									
693.13	692.54	691.92	691.28	690.61	689.92	689.20	688.46	687.70	686.91	686.09	685.25	684.39	683.50	682.59	681.65	680.68	679.70	678.68	676.63	674.58	672.53	670.48	668.43	666.38	664.33	662.28	660.23	658.18	656.13	654.08	652.03	649.98	647.93	645.88
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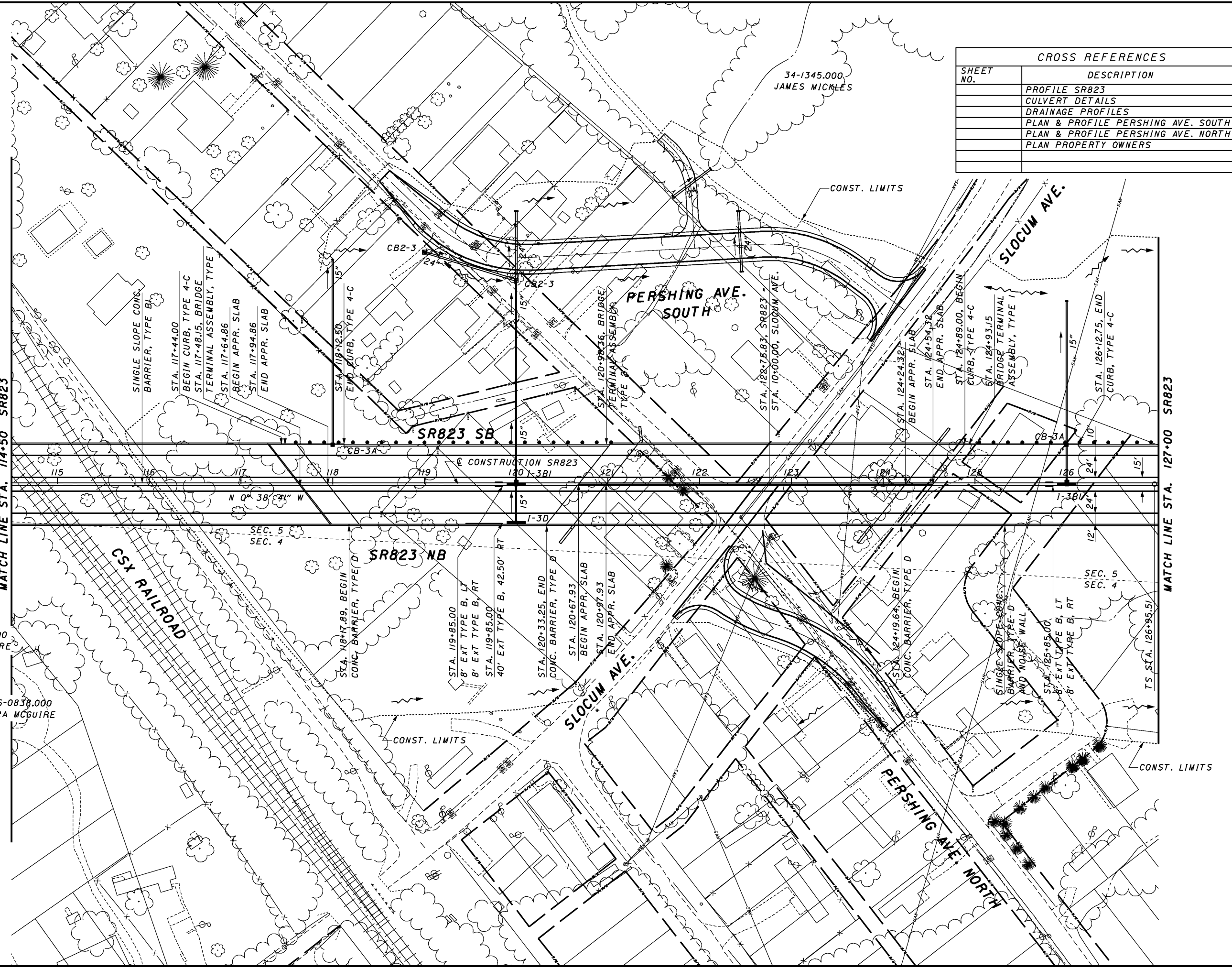
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16-0837.000  
ORA MCGUIRE



16-0838.000  
ORA MCGUIRE

MATCH LINE STA. 114+50 SR823

MATCH LINE STA. 127+00 SR823



CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	CULVERT DETAILS
	DRAINAGE PROFILES
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	PLAN & PROFILE PERSHING AVE. NORTH
	PLAN PROPERTY OWNERS


  

  
 HORIZONTAL SCALE IN FEET

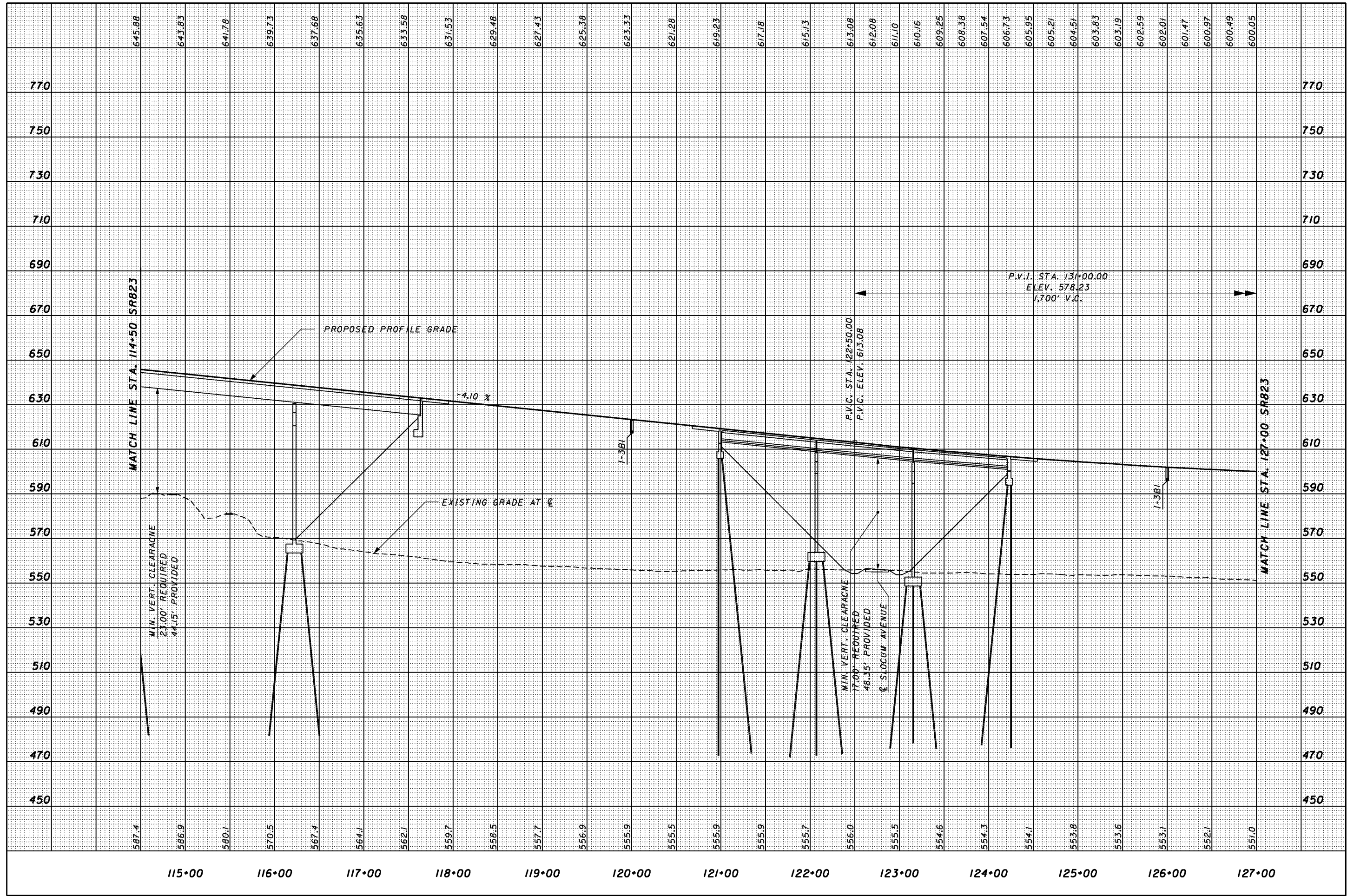
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**PLAN - SR823**  
**STA. 114+50.00 TO STA. 127+00.00**

**SCI-823-0.00**

54

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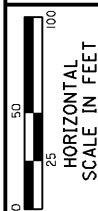


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**PROFILE - SR823**  
**STA. 114+50 TO STA. 127+00**

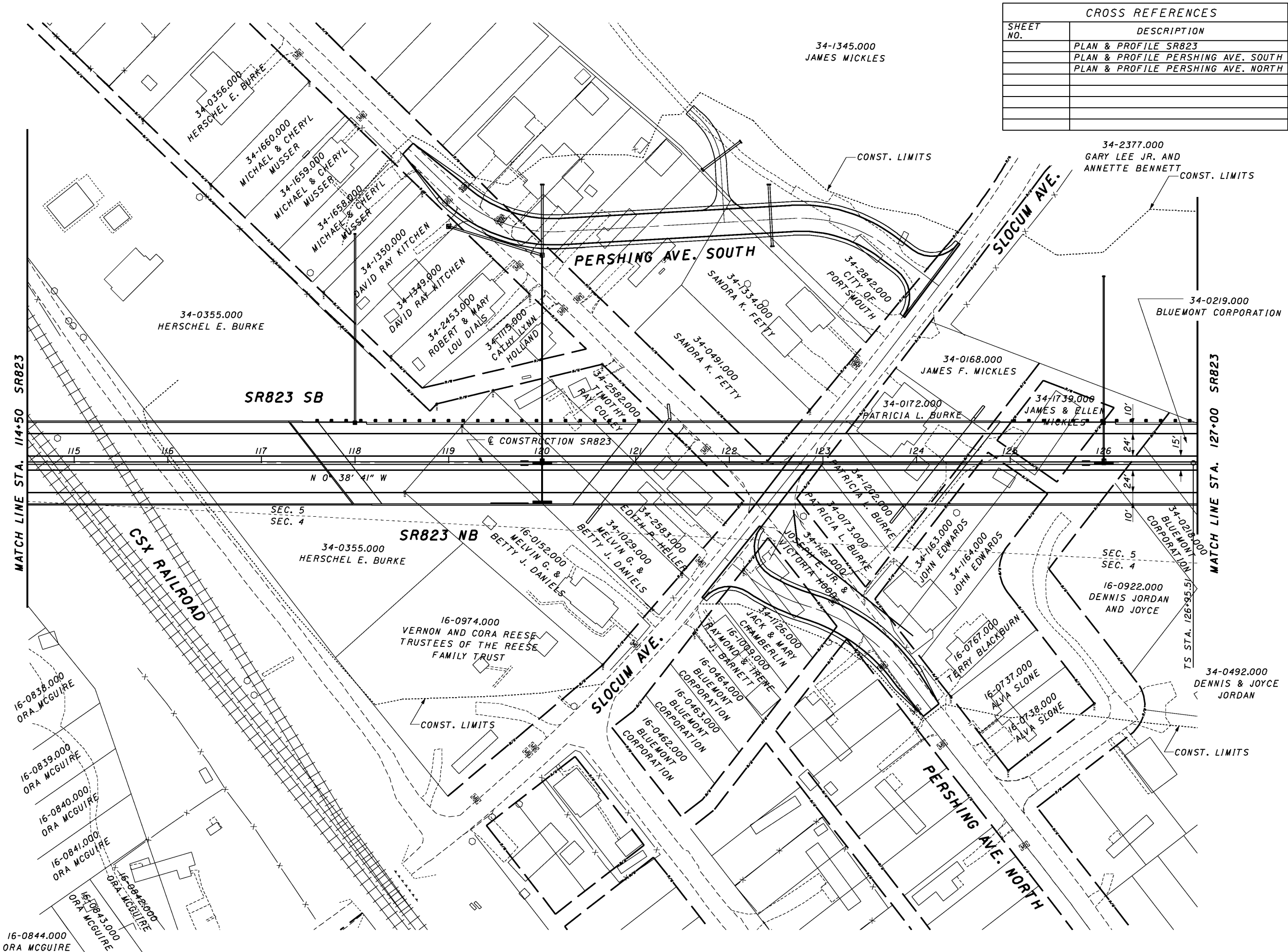
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CALCULATED DL  
CREATED RW

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PLAN & PROFILE SR823
	PLAN & PROFILE PERSHING AVE. SOUTH
	PLAN & PROFILE PERSHING AVE. NORTH



**PLAN - PROPERTY OWNERSHIP  
SR823, PERSHING, AND SLOCUM AREA**

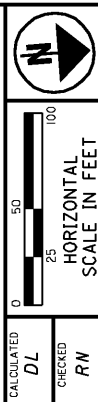
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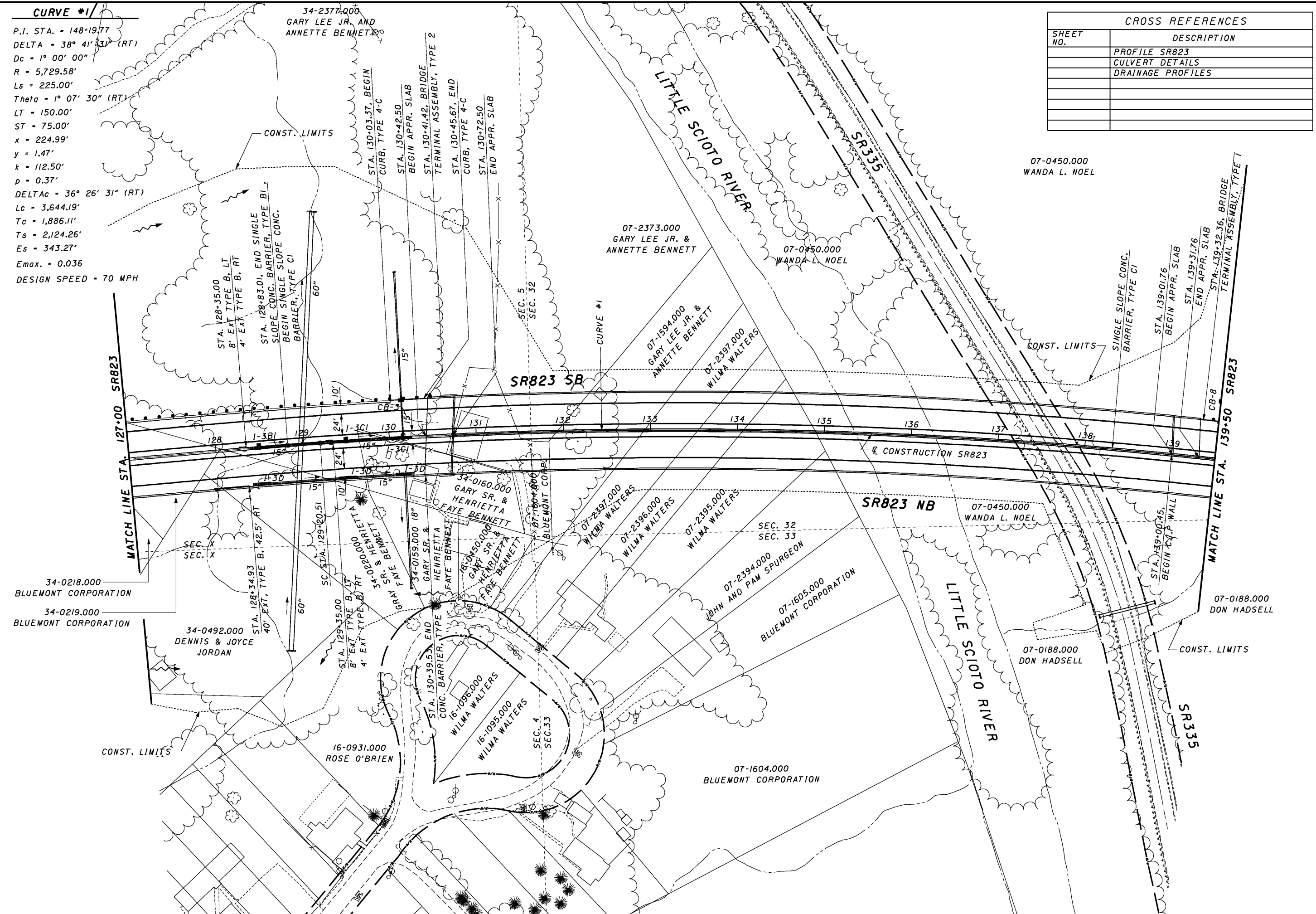
**CURVE #1**

P.I. STA. = 148+19.77  
 DELTA = 38° 41' 33" (RT)  
 Dc = 1° 00' 00"  
 R = 5,729.58'  
 Ls = 225.00'  
 Theta = 1° 07' 30" (RT)  
 LT = 150.00'  
 ST = 75.00'  
 x = 224.99'  
 y = 1.47'  
 k = 112.50'  
 p = 0.37'  
 DELTA<sub>c</sub> = 36° 26' 31" (RT)  
 Lc = 3,644.19'  
 Tc = 1,886.11'  
 Ts = 2,124.26'  
 Es = 343.27'  
 Emax. = 0.036  
 DESIGN SPEED = 70 MPH

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



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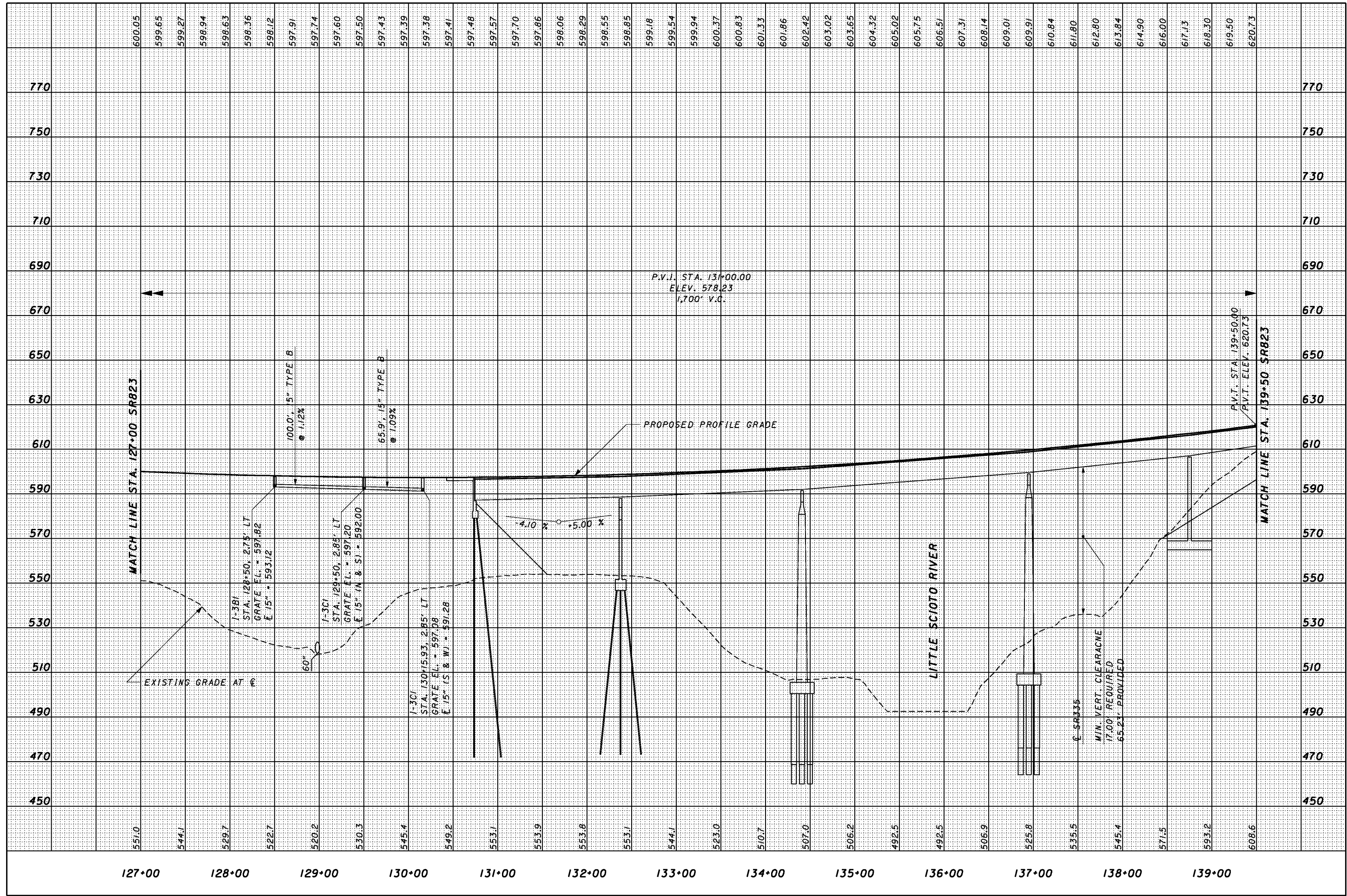


07-0450.000  
WANDA L. NOEL

CALCULATED DL  
CREATED RN

PLAN - SR823  
 STA. 127+00.00 TO STA. 139+50.00  
 SCI-823-0.00  
 57

1/30/2008 8:33:45 PM g:\co03\0064\road\phase\_3\17366of07\_sr823.sht



127+00      128+00      129+00      130+00      131+00      132+00      133+00      134+00      135+00      136+00      137+00      138+00      139+00

770  
750  
730  
710  
690  
670  
650  
630  
610  
590  
570  
550  
530  
510  
490  
470  
450

MATCH LINE STA. 127+00 SR823

MATCH LINE STA. 139+50 SR823

P.V.I. STA. 131+00.00  
ELEV. 578.23  
1,700' V.C.

PROPOSED PROFILE GRADE

EXISTING GRADE AT C

LITTLE SCIOTO RIVER

C-SR335  
MIN. VERT. CLEARANCE  
17.00' REQUIRED  
65.23' PROVIDED

I-3B1  
STA. 128+50, 27.5' LT  
GRATE E.L. = 597.82  
E 1.5% (S & W) = 593.12

I-3C1  
STA. 129+50, 2.85' LT  
GRATE E.L. = 597.20  
E 1.5% (N & S) = 592.00

I-3C1  
STA. 130+50, 2.85' LT  
GRATE E.L. = 597.08  
E 1.5% (S & W) = 591.28

100.0' 5" TYPE B  
@ 1.12%

65.9' 1.5" TYPE B  
@ 1.09%

4.10%      5.00%

P.V.T. STA. 139+50.00  
P.V.T. ELEV. 620.73

551.0

544.1

529.7

522.7

520.2

530.3

545.4

549.2

553.1

553.9

553.8

553.1

544.1

523.0

510.7

507.0

506.2

492.5

492.5

506.9

525.8

535.5

545.4

571.5

593.2

608.6

600.05

599.65

599.27

598.94

598.63

598.36

598.12

597.91

597.74

597.60

597.50

597.43

597.39

597.38

597.41

597.48

597.57

597.70

597.86

598.06

598.29

598.55

598.85

599.18

599.54

599.94

600.37

600.83

601.33

601.86

602.42

603.02

603.65

604.32

605.02

605.75

606.51

607.31

608.14

609.01

609.91

610.84

611.80

612.80

613.84

614.90

616.00

617.13

618.30

619.50

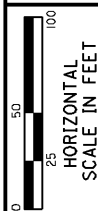
620.73

CALCULATED  
JFA  
CHECKED  
RN

PROFILE - SR823  
STA. 127+00 TO STA. 139+50

SCI-823-0.00

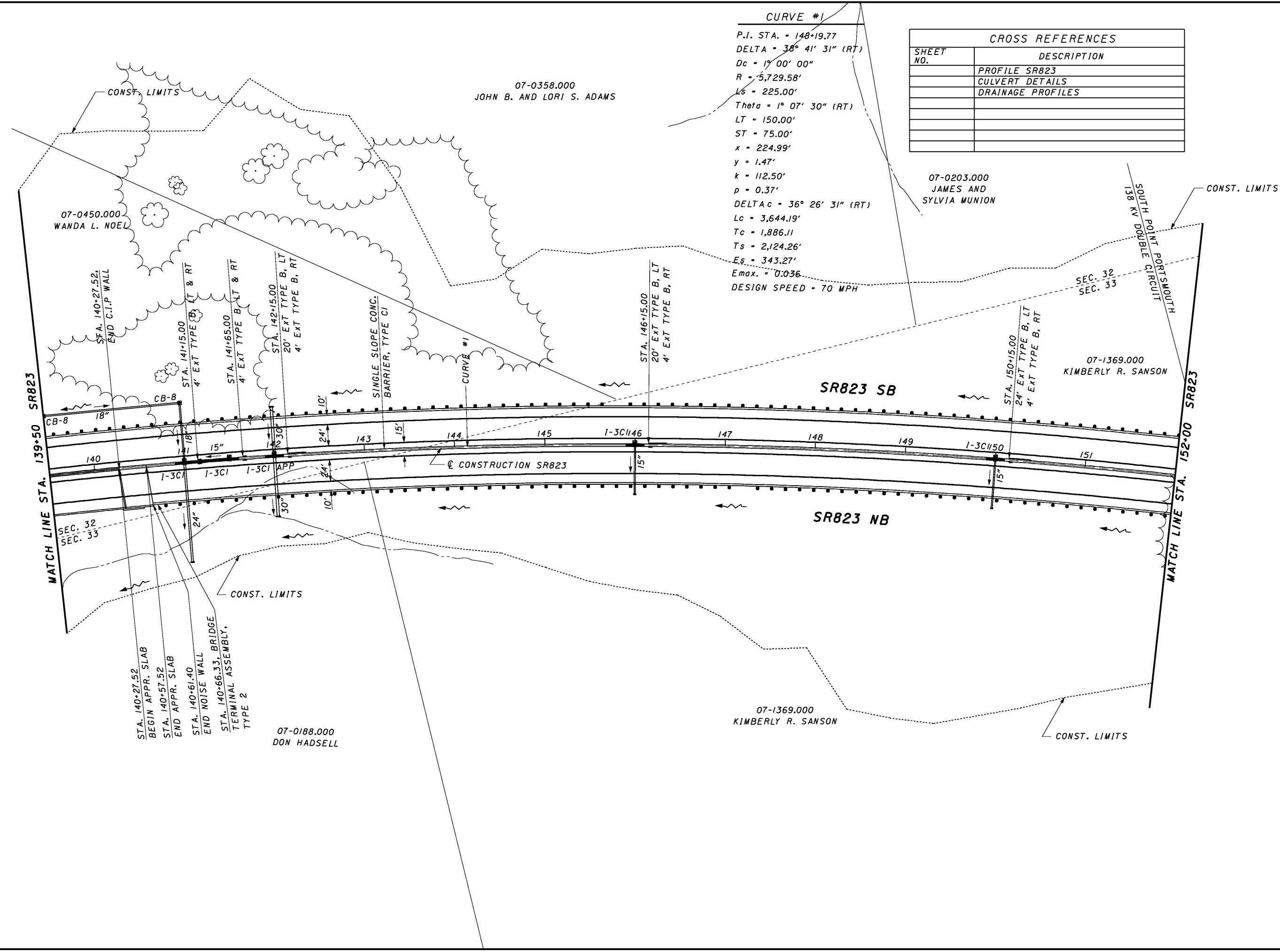
58



CALCULATED DL  
CHECKED RW

PLAN - SR823  
STA. 139+50.00 TO STA. 152+00.00

SCI-823-0.00



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

**CURVE #1**  
 P.I. STA. = 148+19.77  
 DELTA = 36° 41' 31" (RT)  
 Dc = 17' 00" 00"  
 R = 5,729.58'  
 Ls = 225.00'  
 Theta = 1° 07' 30" (RT)  
 LT = 150.00'  
 ST = 75.00'  
 x = 224.99'  
 y = 1.47'  
 k = 112.50'  
 p = 0.37'  
 DELTAc = 36° 26' 31" (RT)  
 Lc = 3,644.19'  
 Tc = 1,886.11'  
 Ts = 2,124.26'  
 Es = 343.27'  
 Emax. = 0.036  
 DESIGN SPEED = 70 MPH

07-0450.000  
WANDA L. NOEL

07-0203.000  
JAMES AND  
SYLVIA MUNION

07-1369.000  
KIMBERLY R. SANSON

07-0188.000  
DON HADSELL

STA. 140+27.52  
END C.I.P. WALL

STA. 141+15.00  
4' EXT TYPE B, LT & RT

STA. 141+65.00  
4' EXT TYPE B, LT & RT

STA. 142+15.00  
20' EXT TYPE B, LT  
4' EXT TYPE B, RT

STA. 146+15.00  
20' EXT TYPE B, LT  
4' EXT TYPE B, RT

STA. 150+15.00  
24' EXT TYPE B, LT  
4' EXT TYPE B, RT

MATCH LINE STA. 139+50 SR823

MATCH LINE STA. 152+00 SR823

SEC. 32  
SEC. 33

SEC. 32  
SEC. 33

STA. 140+27.52  
BEGIN APPR. SLAB  
STA. 140+57.52  
END APPR. SLAB  
STA. 140+61.40  
END NOISE WALL  
STA. 140+66.33, BRIDGE  
TERMINAL ASSEMBLY,  
TYPE 2

CB-8

140

141

142

143

144

145

146

147

148

149

150

151

1-3C1

1-3C1

1-3C1

APP

1-3C1

1-3C1

1-3C1

1-3C1

1-3C1

1-3C1

1-3C1

1-3C1

1-3C1

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1-3C1

1-3C1

1-3C1

1-3C1

1-3C1

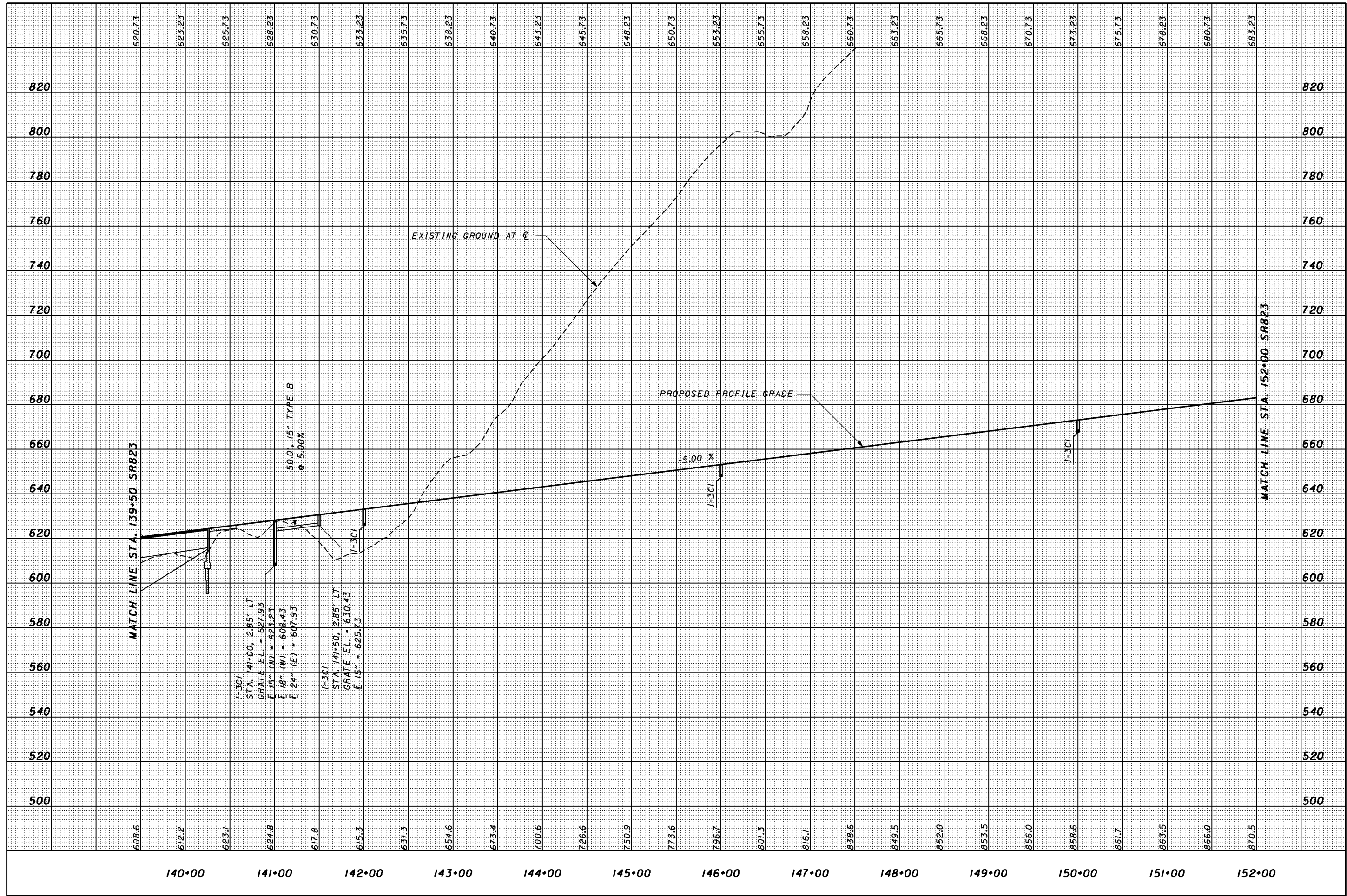
1-3C1

1-3C1

1-3C1



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CALCULATED  
JFA  
CHECKED  
RW

**PROFILE - SR823**  
**STA. 139+50 TO STA. 152+00**

**SCI-823-0.00**

1/30/2008 3:33:11 PM g:\co03\0064\road\phase\_3\71366p09\_sr823.sht

07-0203.000  
JAMES AND SYLVIA MUNION

07-1369.000  
KIMBERLY R. SANSON

07-0962.000  
CARL AND MARK E. DAVIS

07-1440.000  
RONALD D. & PATRICIA ANNE CORIELL

07-1369.000  
KIMBERLY R. SANSON

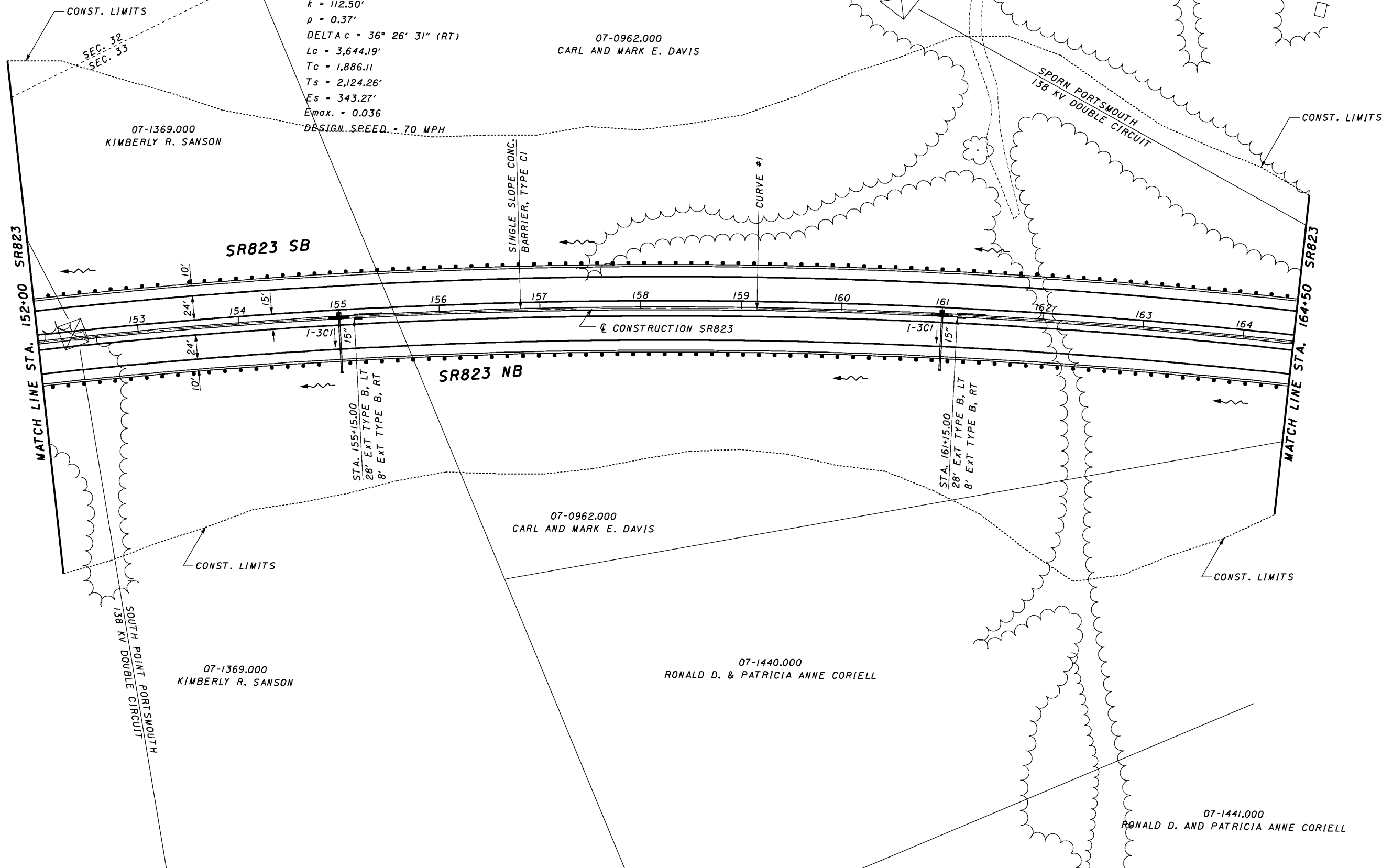
07-1441.000  
RONALD D. AND PATRICIA ANNE CORIELL

**CURVE #1**

P.I. STA. = 148+19.77  
 DELTA = 38° 41' 31" (RT)  
 Dc = 1° 00' 00"  
 R = 5,729.58'  
 Ls = 225.00'  
 Theta = 1° 07' 30" (RT)  
 LT = 150.00'  
 ST = 75.00'  
 x = 224.99'  
 y = 1.47'  
 k = 112.50'  
 p = 0.37'  
 DELTA c = 36° 26' 31" (RT)  
 Lc = 3,644.19'  
 Tc = 1,886.11  
 Ts = 2,124.26'  
 Es = 343.27'  
 Emax. = 0.036  
 DESIGN SPEED = 70 MPH

SEC. 32  
SEC. 33

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	DRAINAGE PROFILES



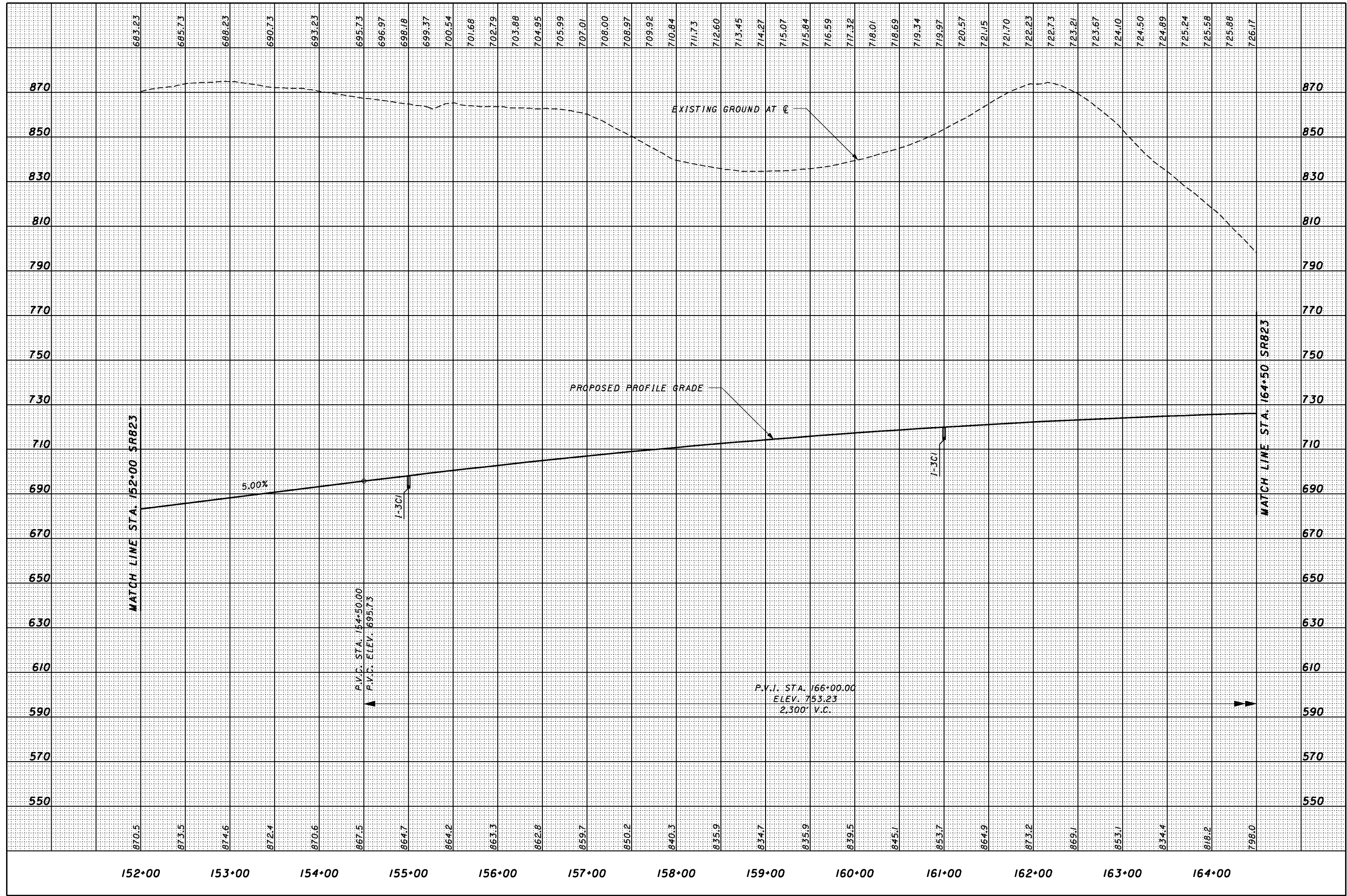
CALCULATED DL  
CHECKED RW

0 25 50 100  
HORIZONTAL SCALE IN FEET

PLAN - SR823  
STA. 152+00.00 TO STA. 164+50.00

SCI-823-0.00

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CALCULATED  
JFA  
CHECKED  
RN

PROFILE - SR823  
STA. 152+00 TO STA. 164+50

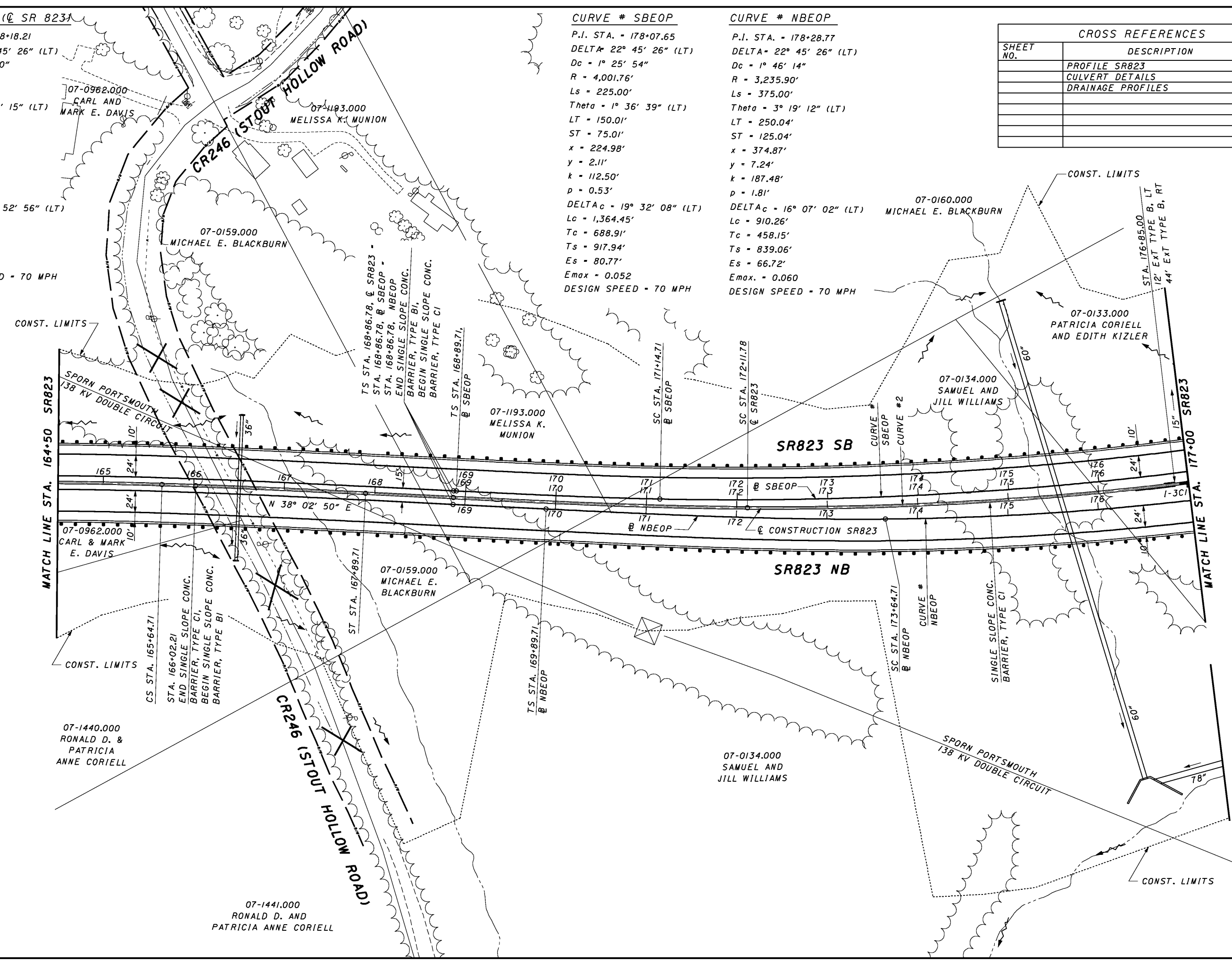
SCI-823-0.00

**CURVE #2 (SR 823)**  
 P.I. STA. = 178+18.21  
 DELTA = 22° 45' 26" (LT)  
 Dc = 1° 30' 00"  
 R = 3,819.72'  
 Ls = 325.00'  
 Theta = 2° 26' 15" (LT)  
 LT = 216.69'  
 ST = 108.35'  
 x = 324.94'  
 y = 4.61'  
 k = 162.49'  
 p = 1.15'  
 DELTA<sub>c</sub> = 17° 52' 56" (LT)  
 Lc = 1,192.14'  
 Tc = 600.96'  
 Ts = 931.43'  
 Es = 77.76'  
 DESIGN SPEED = 70 MPH

**CURVE # SBEOP**  
 P.I. STA. = 178+07.65  
 DELTA = 22° 45' 26" (LT)  
 Dc = 1° 25' 54"  
 R = 4,001.76'  
 Ls = 225.00'  
 Theta = 1° 36' 39" (LT)  
 LT = 150.01'  
 ST = 75.01'  
 x = 224.98'  
 y = 2.11'  
 k = 112.50'  
 p = 0.53'  
 DELTA<sub>c</sub> = 19° 32' 08" (LT)  
 Lc = 1,364.45'  
 Tc = 688.91'  
 Ts = 917.94'  
 Es = 80.77'  
 Emax = 0.052  
 DESIGN SPEED = 70 MPH

**CURVE # NBEOP**  
 P.I. STA. = 178+28.77  
 DELTA = 22° 45' 26" (LT)  
 Dc = 1° 46' 14"  
 R = 3,235.90'  
 Ls = 375.00'  
 Theta = 3° 19' 12" (LT)  
 LT = 250.04'  
 ST = 125.04'  
 x = 374.87'  
 y = 7.24'  
 k = 187.48'  
 p = 1.81'  
 DELTA<sub>c</sub> = 16° 07' 02" (LT)  
 Lc = 910.26'  
 Tc = 458.15'  
 Ts = 839.06'  
 Es = 66.72'  
 Emax = 0.060  
 DESIGN SPEED = 70 MPH

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

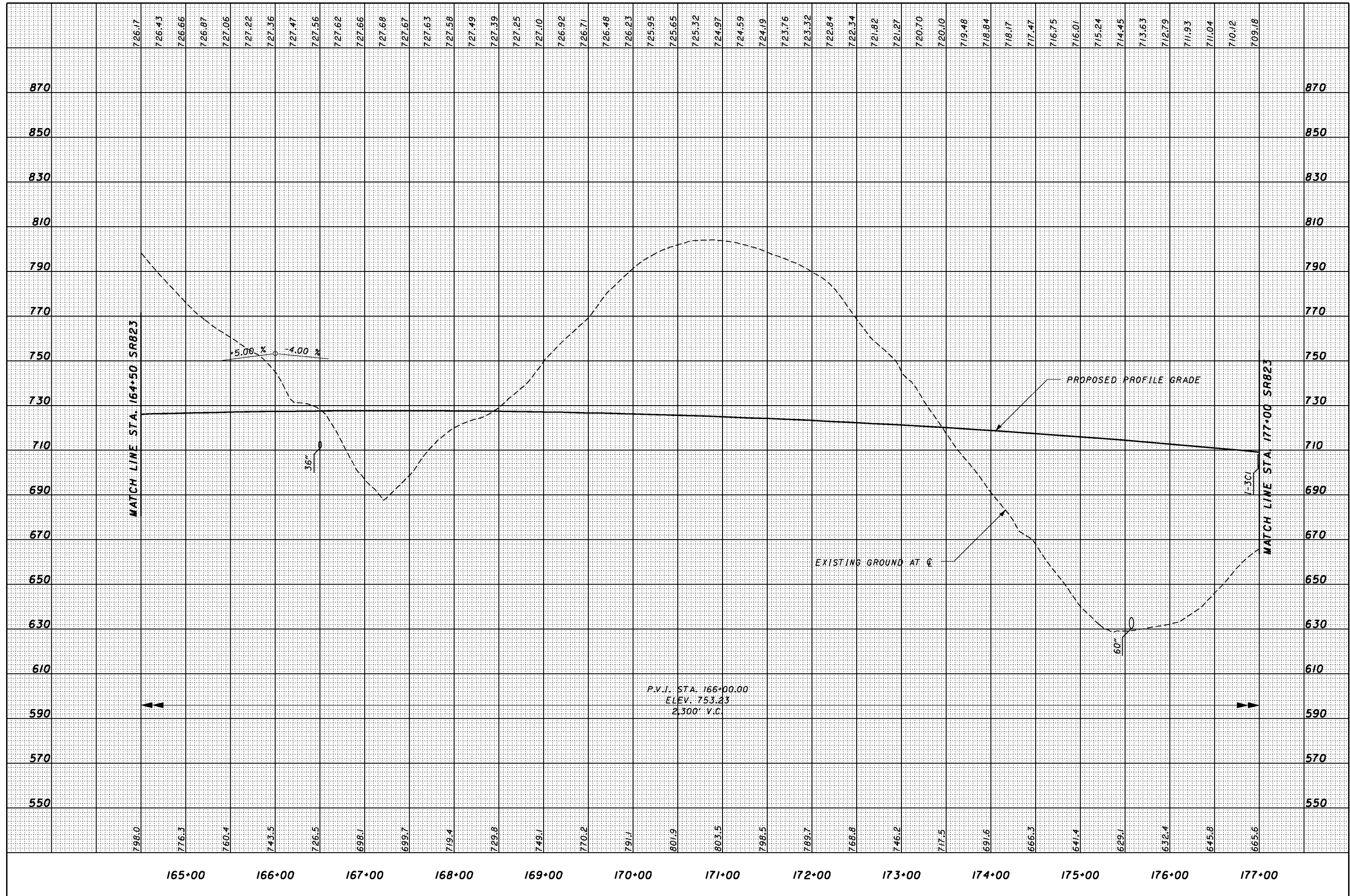


PLAN - SR823  
 STA. 164+50.00 TO STA. 177+00.00

SCI-823-0.00

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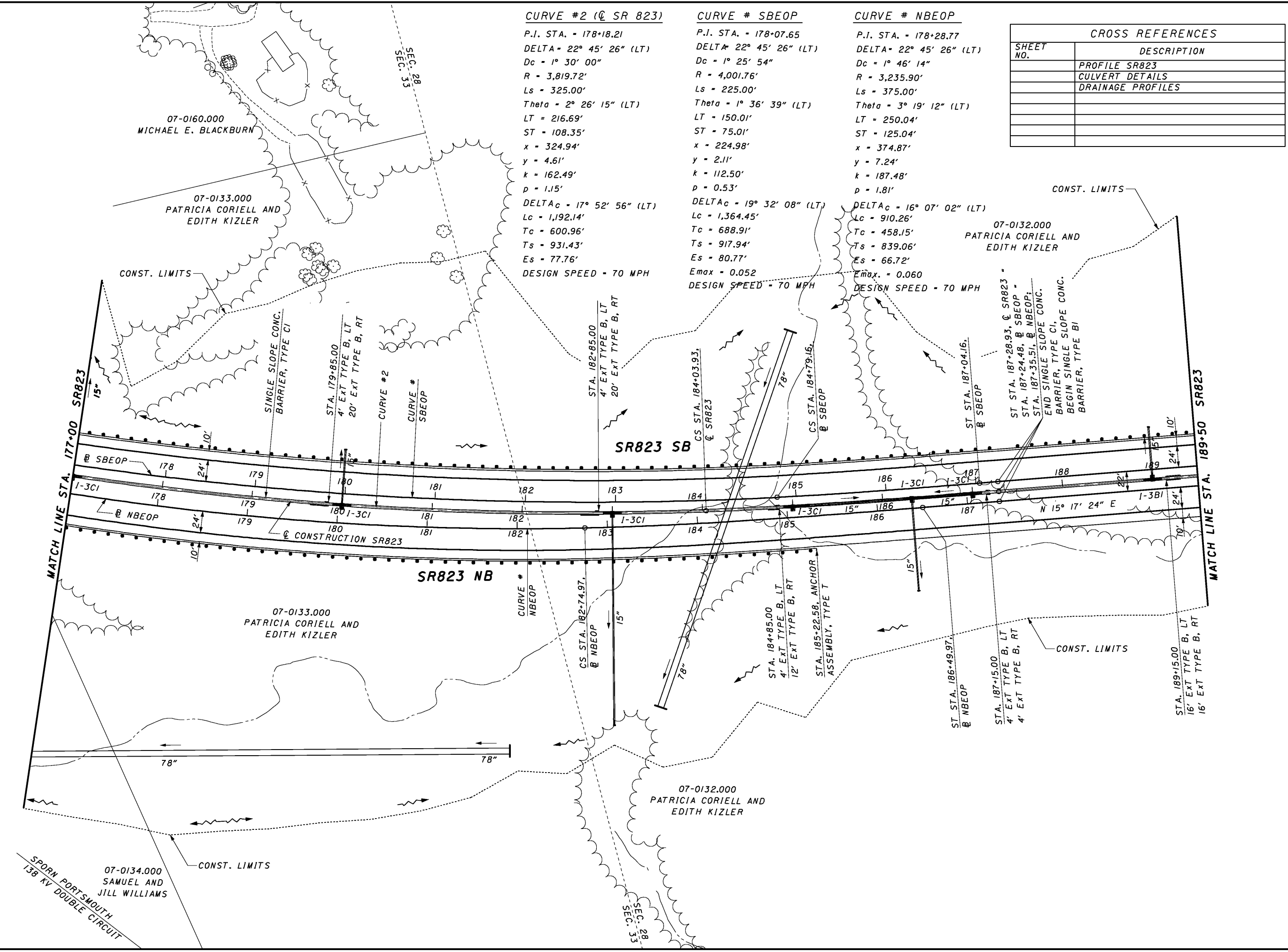


PROFILE - SR823  
STA. 164+50 TO STA. 177+00

SCI-823-0.00

CALCULATED  
JFA  
CHECKED  
RN

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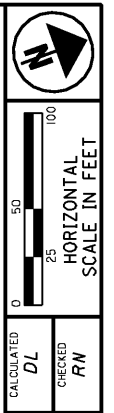


**CURVE #2 (C SR 823)**  
 P.I. STA. = 178+18.21  
 DELTA = 22° 45' 26" (LT)  
 Dc = 1° 30' 00"  
 R = 3,819.72'  
 Ls = 325.00'  
 Theta = 2° 26' 15" (LT)  
 LT = 216.69'  
 ST = 108.35'  
 x = 324.94'  
 y = 4.61'  
 k = 162.49'  
 p = 1.15'  
 DELTA<sub>c</sub> = 17° 52' 56" (LT)  
 Lc = 1,192.14'  
 Tc = 600.96'  
 Ts = 931.43'  
 Es = 77.76'  
 DESIGN SPEED = 70 MPH

**CURVE # SBEOP**  
 P.I. STA. = 178+07.65  
 DELTA = 22° 45' 26" (LT)  
 Dc = 1° 25' 54"  
 R = 4,001.76'  
 Ls = 225.00'  
 Theta = 1° 36' 39" (LT)  
 LT = 150.01'  
 ST = 75.01'  
 x = 224.98'  
 y = 2.11'  
 k = 112.50'  
 p = 0.53'  
 DELTA<sub>c</sub> = 19° 32' 08" (LT)  
 Lc = 1,364.45'  
 Tc = 688.91'  
 Ts = 917.94'  
 Es = 80.77'  
 E<sub>max</sub> = 0.052  
 DESIGN SPEED = 70 MPH

**CURVE # NBEOP**  
 P.I. STA. = 178+28.77  
 DELTA = 22° 45' 26" (LT)  
 Dc = 1° 46' 14"  
 R = 3,235.90'  
 Ls = 375.00'  
 Theta = 3° 19' 12" (LT)  
 LT = 250.04'  
 ST = 125.04'  
 x = 374.87'  
 y = 7.24'  
 k = 187.48'  
 p = 1.81'  
 DELTA<sub>c</sub> = 16° 07' 02" (LT)  
 Lc = 910.26'  
 Tc = 458.15'  
 Ts = 839.06'  
 Es = 66.72'  
 E<sub>max</sub> = 0.060  
 DESIGN SPEED = 70 MPH

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



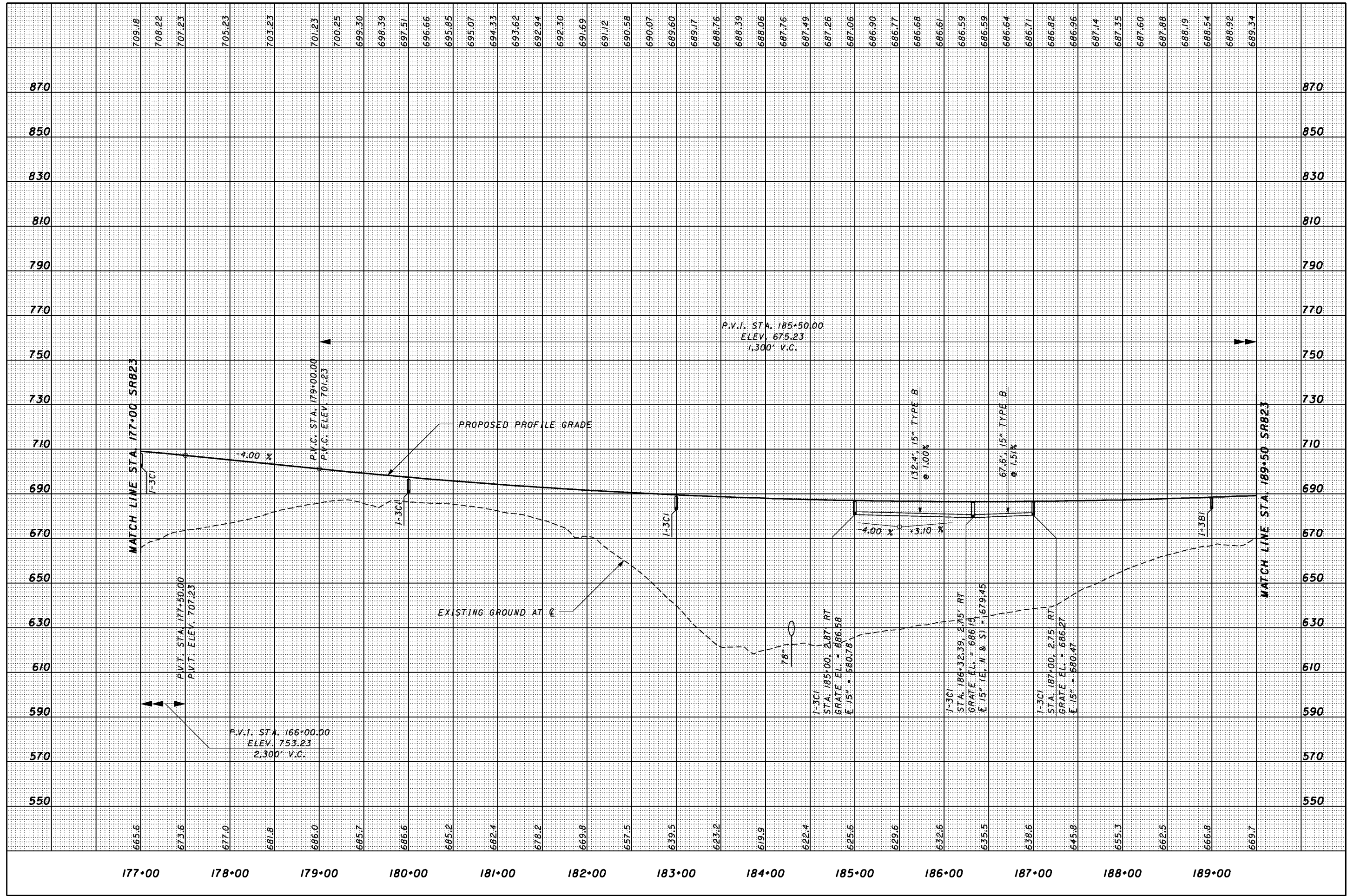
CALCULATED DL  
 CHECKED RW

**PLAN - SR823**  
**STA. 177+00.00 TO STA. 189+50.00**

**SCI-823-0.00**

65

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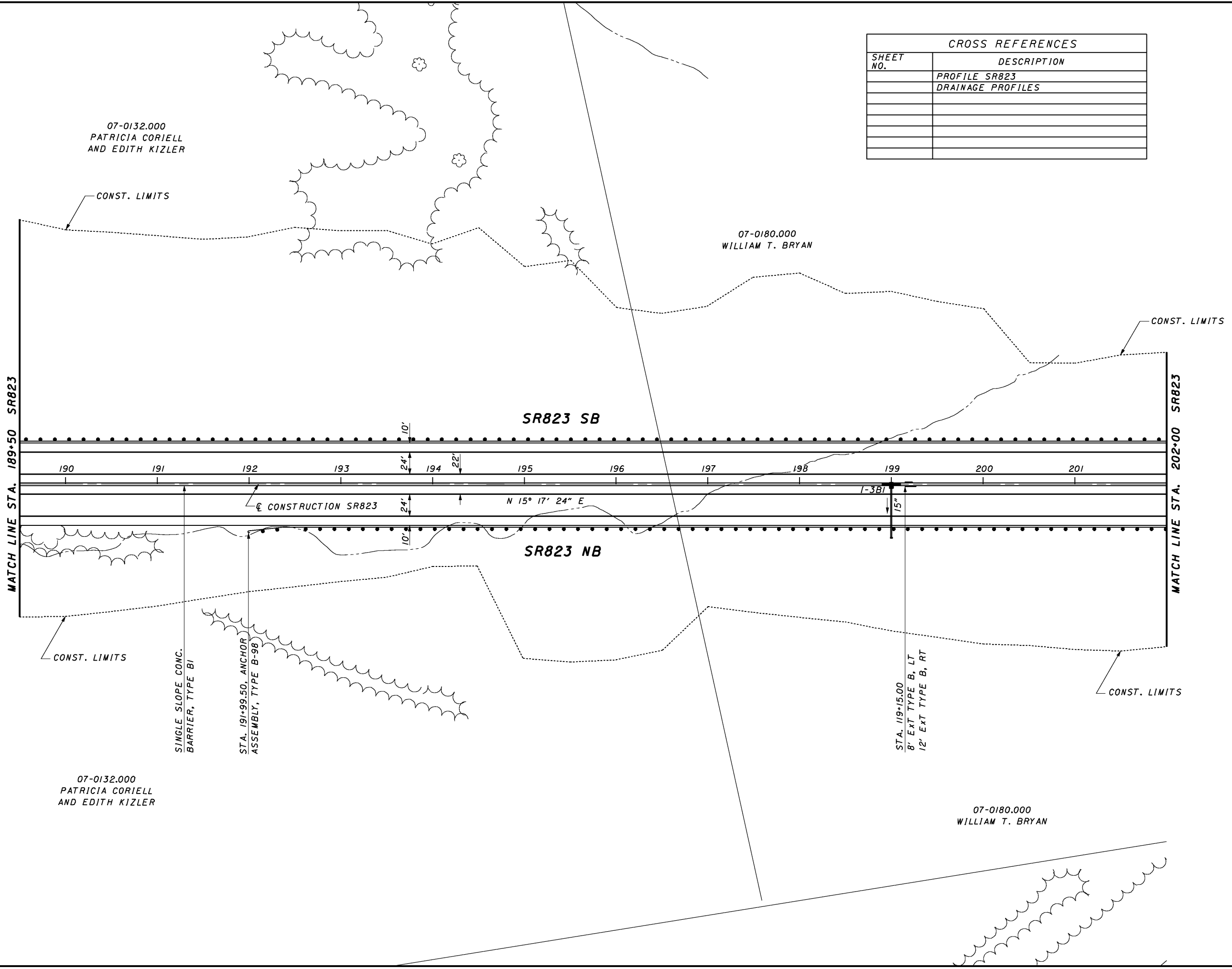


CALCULATED  
JFA  
CHECKED  
RN

**PROFILE - SR823**  
**STA. 177+00 TO STA. 189+50**

**SCI-823-0.00**

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CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	DRAINAGE PROFILES

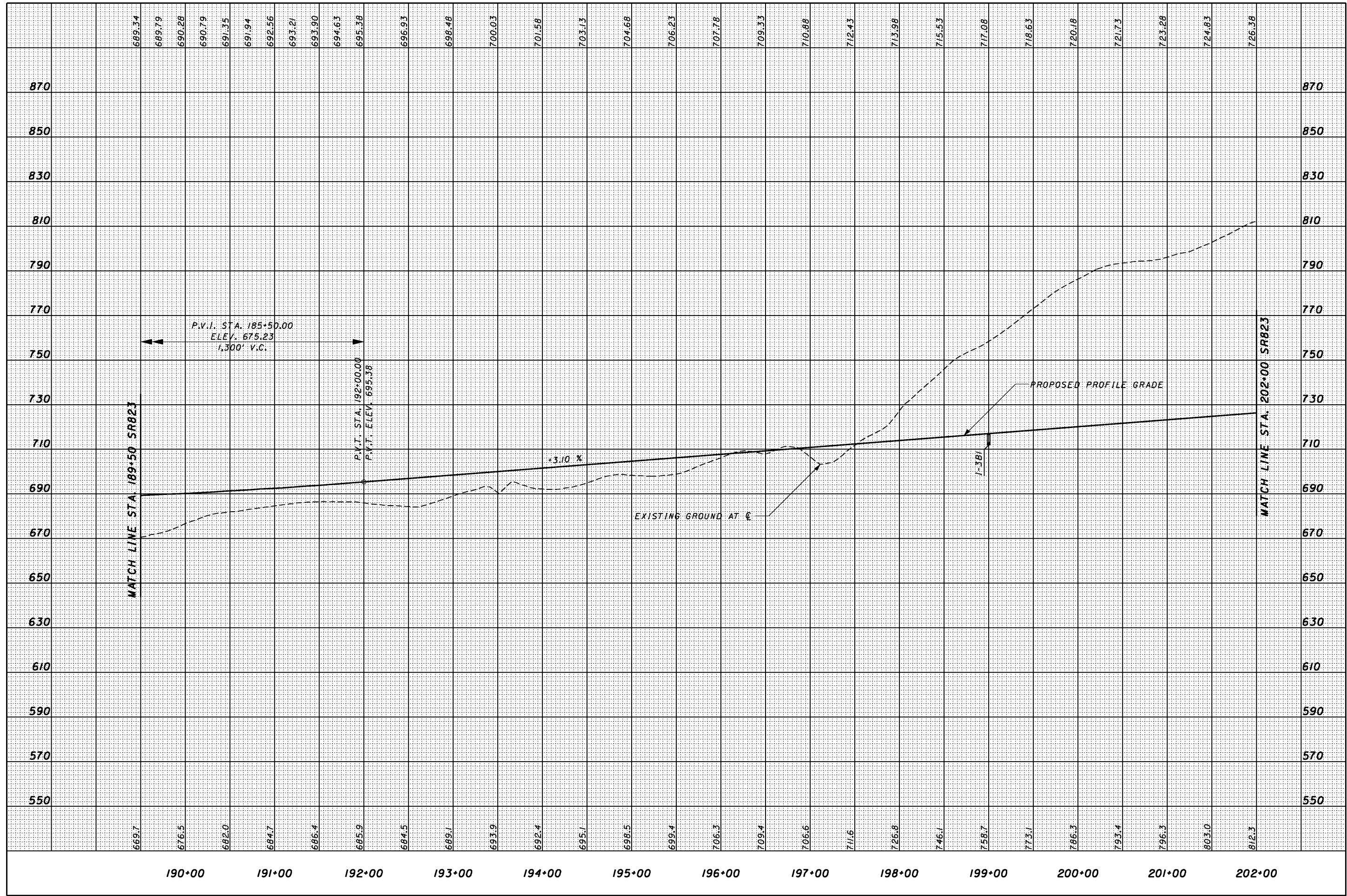
HORIZONTAL SCALE IN FEET

CALCULATED *DL* / CHECKED *RW*
  
**PLAN - SR823**
  
**STA. 189+50.00 TO STA. 202+00.00**

**SCI-823-0.00**



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CALCULATED  
JFA  
CHECKED  
RN

**PROFILE - SR823**  
**STA. 189+50 TO STA. 202+00**

**SCI-823-0.00**

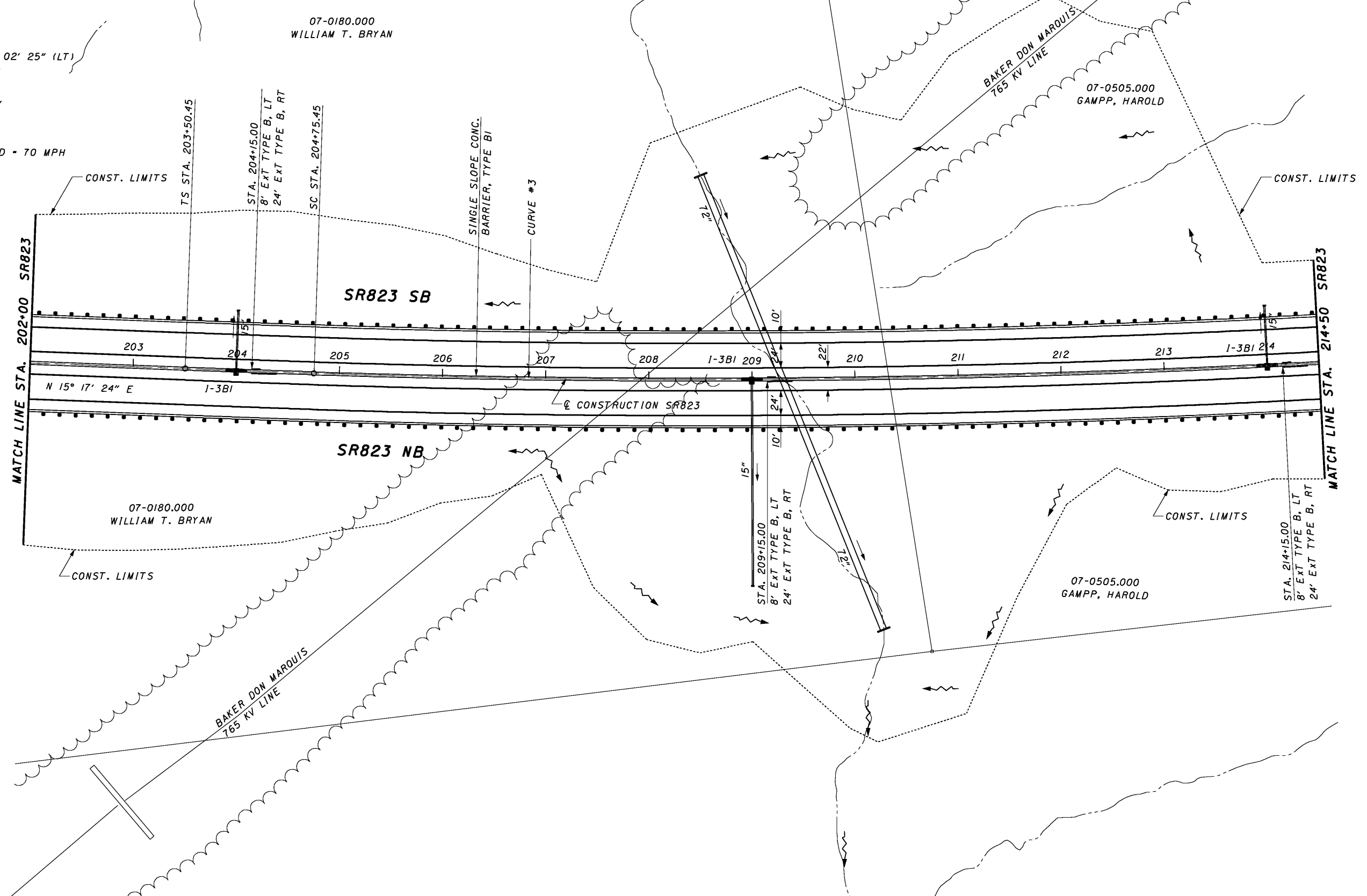
**CURVE # 3**

P.I. STA. = 223+99.04  
 DELTA = 19° 39' 55" (LT)  
 Dc = 0° 30' 00"  
 R = 11,459.16'  
 Ls = 125.00'  
 Theta = 0° 18' 45"  
 LT = 83.33'  
 ST = 41.67'  
 x = 125.00'  
 y = 0.23'  
 k = 62.50'  
 p = 0.06'  
 DELTAc = 19° 02' 25" (LT)  
 Lc = 3,808.07'  
 Tc = 1,921.75'  
 Ts = 2,048.58'  
 Es = 170.89'  
 Emax. = 0.019  
 DESIGN SPEED = 70 MPH

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

CALCULATED DL  
 CHECKED RW

0 50 100  
 HORIZONTAL SCALE IN FEET

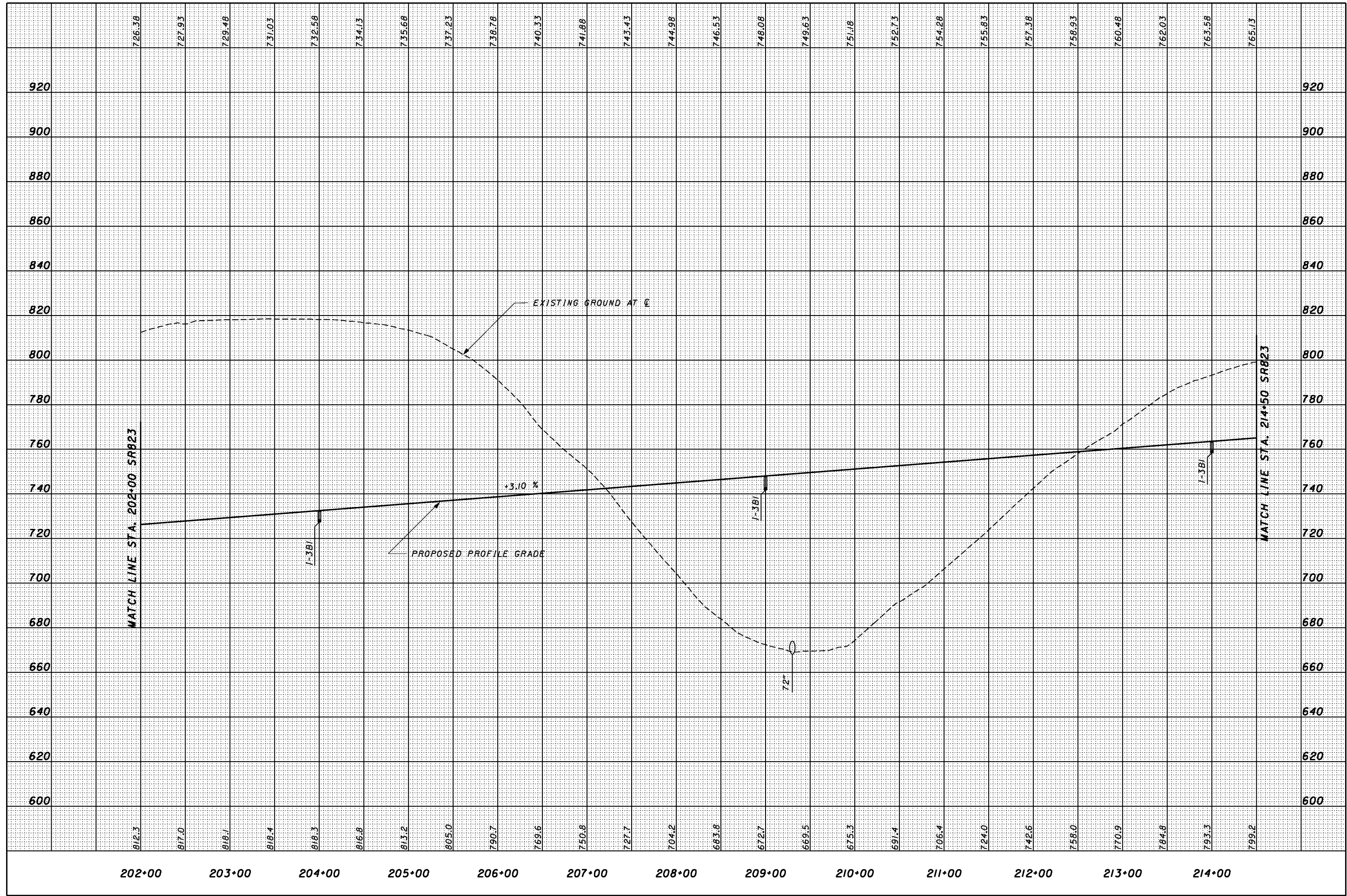


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PLAN - SR823  
 STA. 202+00.00 TO 214+50.00

SCI-823-0.00

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CALCULATED  
JFA  
CHECKED  
RN

PROFILE - SR823  
STA. 202+00 TO STA. 214+50

SCI-823-0.00

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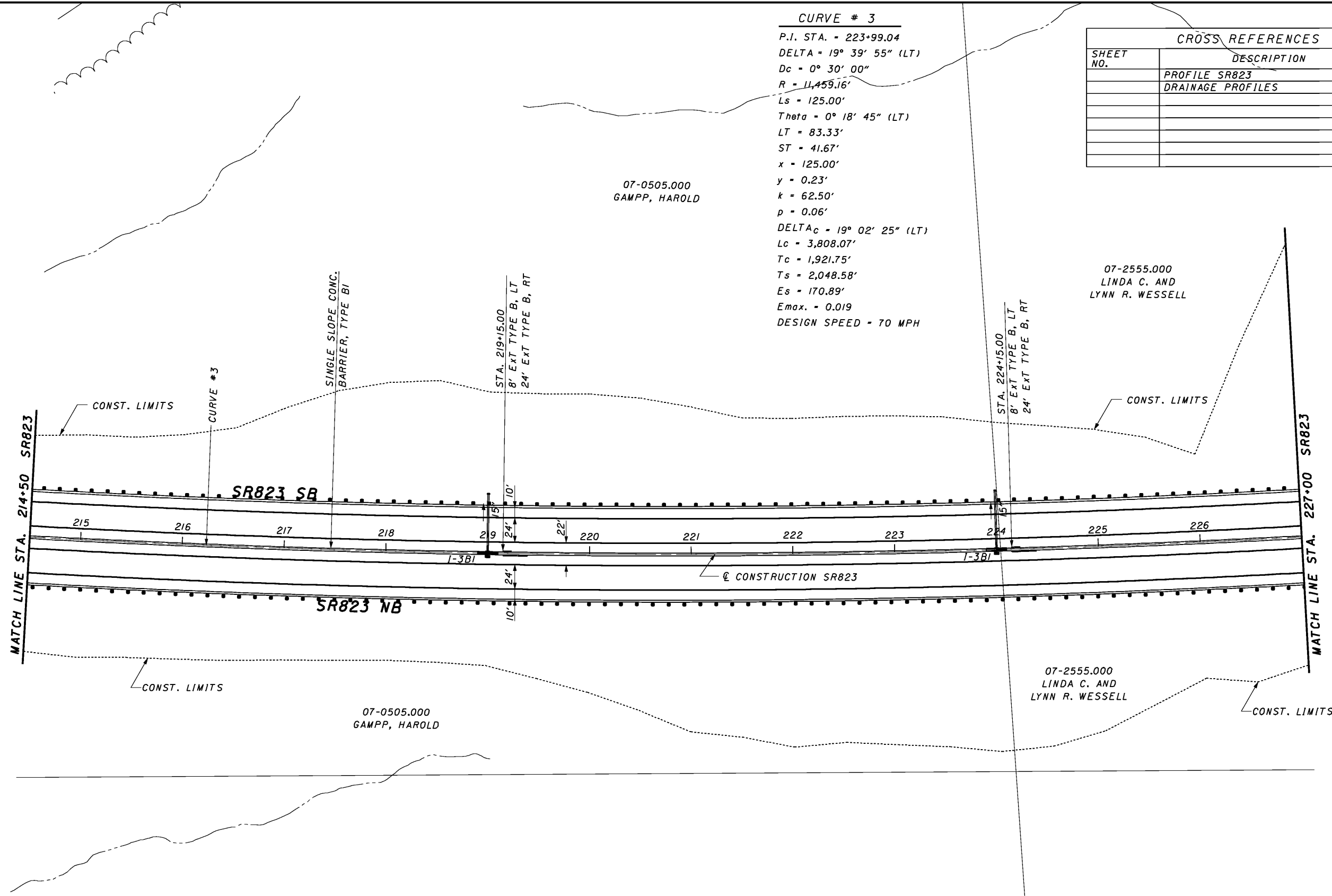
**CURVE # 3**

P.I. STA. = 223+99.04  
 DELTA = 19° 39' 55" (LT)  
 Dc = 0° 30' 00"  
 R = 11,459.16'  
 Ls = 125.00'  
 Theta = 0° 18' 45" (LT)  
 LT = 83.33'  
 ST = 41.67'  
 x = 125.00'  
 y = 0.23'  
 k = 62.50'  
 p = 0.06'  
 DELTA<sub>c</sub> = 19° 02' 25" (LT)  
 Lc = 3,808.07'  
 Tc = 1,921.75'  
 Ts = 2,048.58'  
 Es = 170.89'  
 Emax. = 0.019  
 DESIGN SPEED = 70 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	DRAINAGE PROFILES

CALCULATED DL  
 CHECKED RW

HORIZONTAL SCALE IN FEET



07-0505.000  
 GAMPP, HAROLD

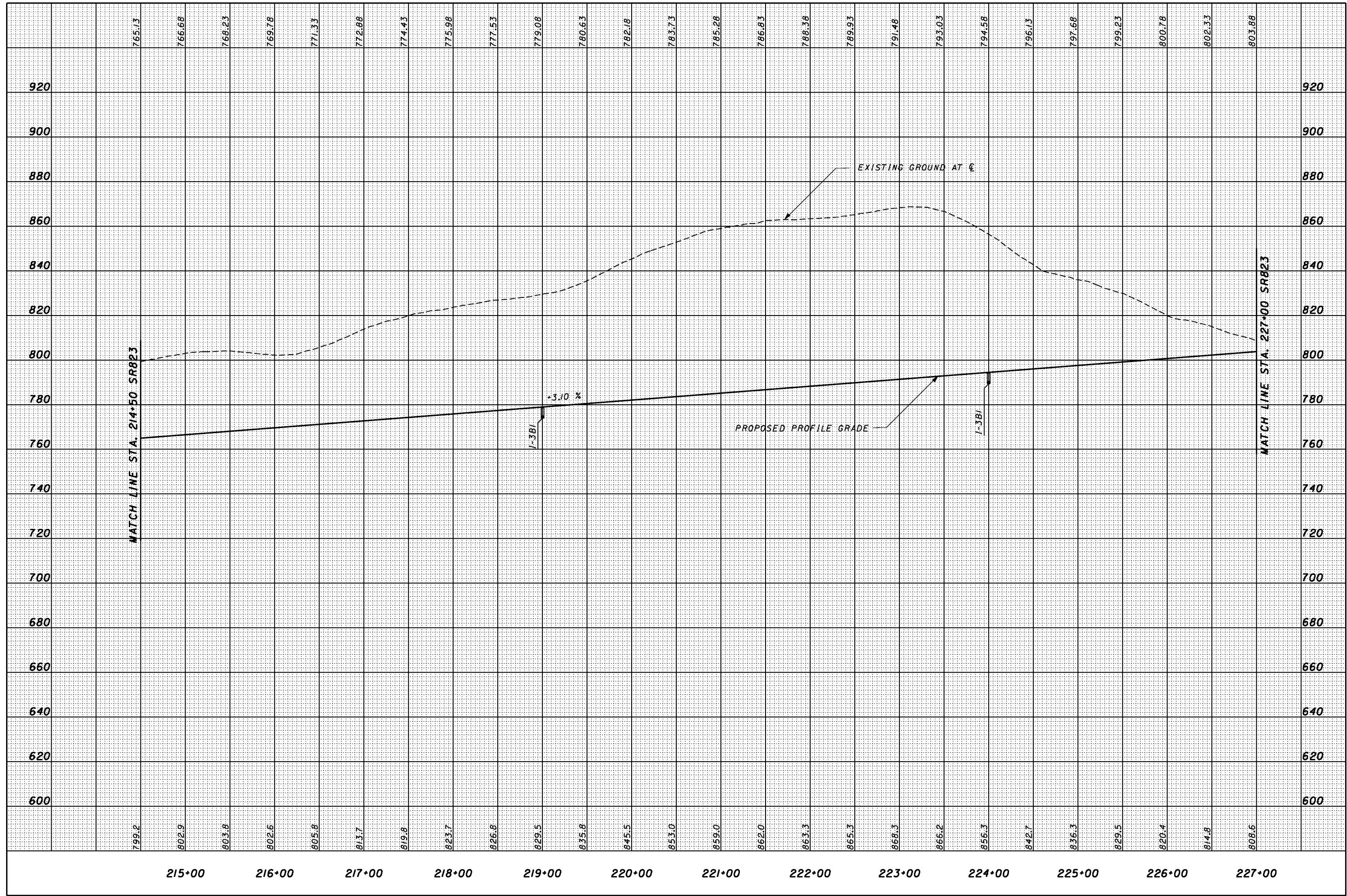
07-2555.000  
 LINDA C. AND  
 LYNN R. WESSELL

07-0505.000  
 GAMPP, HAROLD

07-2555.000  
 LINDA C. AND  
 LYNN R. WESSELL

PLAN - SR823  
 STA. 214+50.00 TO STA. 227+00.00

SCI-823-0.00

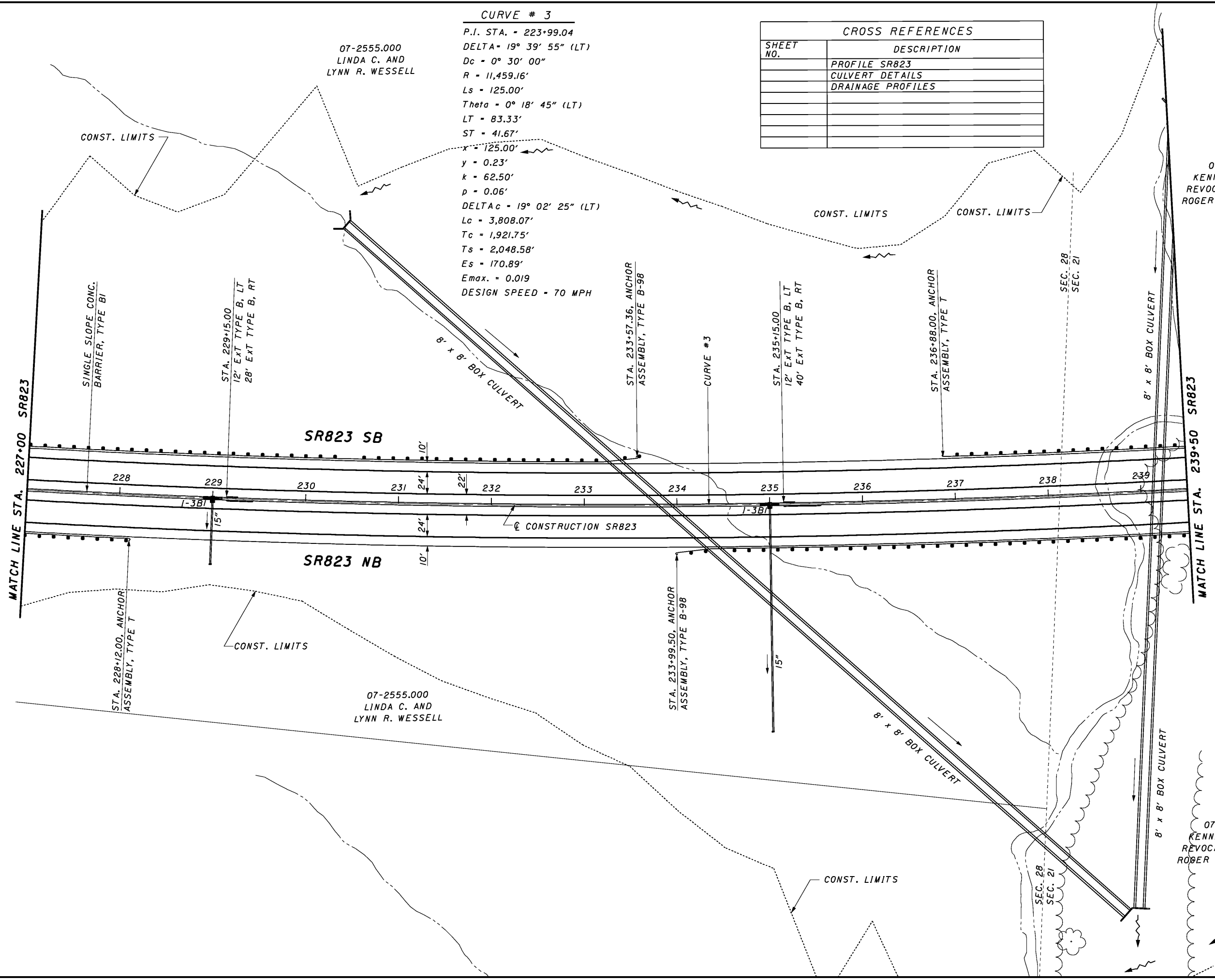


CALCULATED  
JFA  
CHECKED  
RN

**PROFILE - SR823**  
**STA. 214+50 TO STA. 227+00**

**SCI-823-0.00**

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**CURVE # 3**  
 P.I. STA. = 223+99.04  
 DELTA = 19° 39' 55" (LT)  
 Dc = 0° 30' 00"  
 R = 11,459.16'  
 Ls = 125.00'  
 Theta = 0° 18' 45" (LT)  
 LT = 83.33'  
 ST = 41.67'  
 x = 125.00'  
 y = 0.23'  
 k = 62.50'  
 p = 0.06'  
 DELTAc = 19° 02' 25" (LT)  
 Lc = 3,808.07'  
 Tc = 1,921.75'  
 Ts = 2,048.58'  
 Es = 170.89'  
 Emax. = 0.019  
 DESIGN SPEED = 70 MPH

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

07-2555.000 LINDA C. AND LYNN R. WESSELL

07-2554.000 KENNETH CORIELL REVOCABLE TRUST & ROGER C. CORIELL, JR.

07-2555.000 LINDA C. AND LYNN R. WESSELL

07-2554.000 KENNETH CORIELL REVOCABLE TRUST & ROGER C. CORIELL, JR.

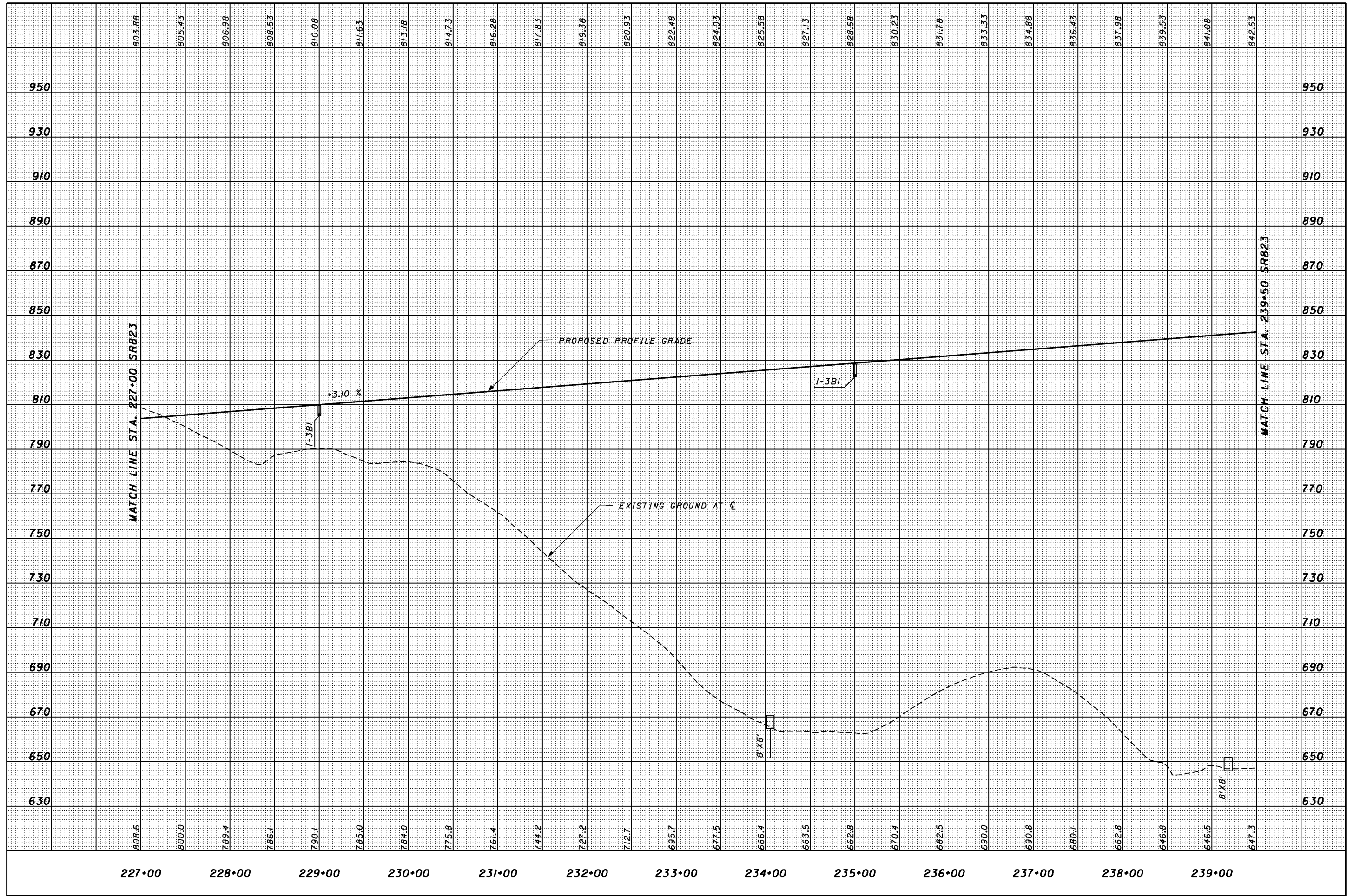
PLAN - SR823  
 STA. 227+00.00 TO STA. 239+50.00

SCI-823-0.00

73



1/30/2008 G:\C003\0064\Road\PHASE 3\171366g15\_sr823.sht

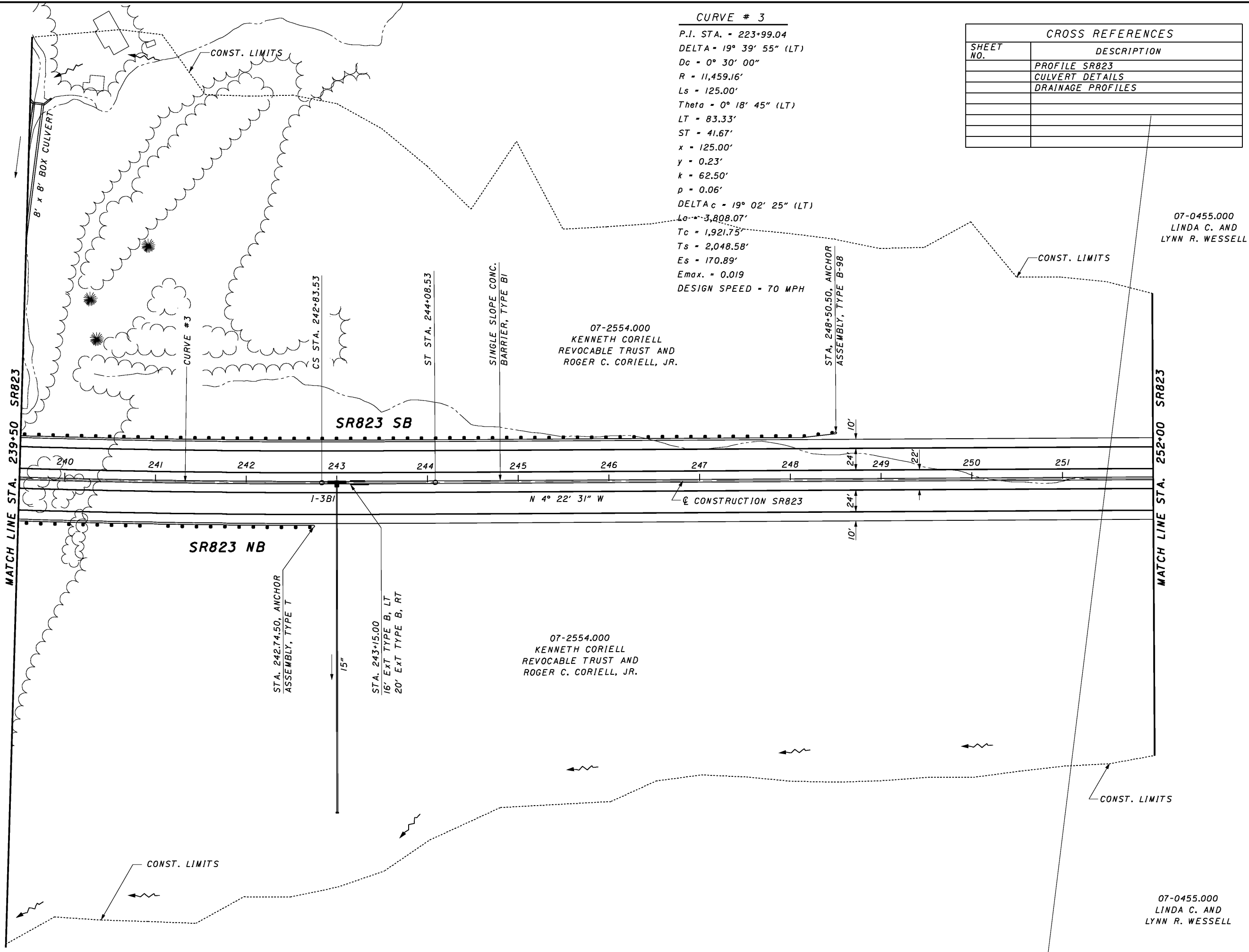


CALCULATED  
JFA  
CHECKED  
RN

**PROFILE - SR823**  
**STA. 227+00 TO STA. 239+50**

**SCI-823-0.00**

1/30/2008 G:\C003\0064\Road\PHASE 3\171366.dwg sr-823.sht



**CURVE # 3**

P.I. STA. = 223+99.04  
 DELTA = 19° 39' 55" (LT)  
 Dc = 0° 30' 00"  
 R = 11,459.16'  
 Ls = 125.00'  
 Theta = 0° 18' 45" (LT)  
 LT = 83.33'  
 ST = 41.67'  
 x = 125.00'  
 y = 0.23'  
 k = 62.50'  
 p = 0.06'  
 DELTA<sub>c</sub> = 19° 02' 25" (LT)  
 L<sub>c</sub> = 3,808.07'  
 Tc = 1,921.75'  
 Ts = 2,048.58'  
 Es = 170.89'  
 E<sub>max</sub> = 0.019  
 DESIGN SPEED = 70 MPH

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

0 50 100  
 25' HORIZONTAL SCALE IN FEET

CALCULATED DL  
 CHECKED RW

PLAN - SR823  
 STA. 239+50.00 TO STA. 252+00.00

SCI-823-0.00

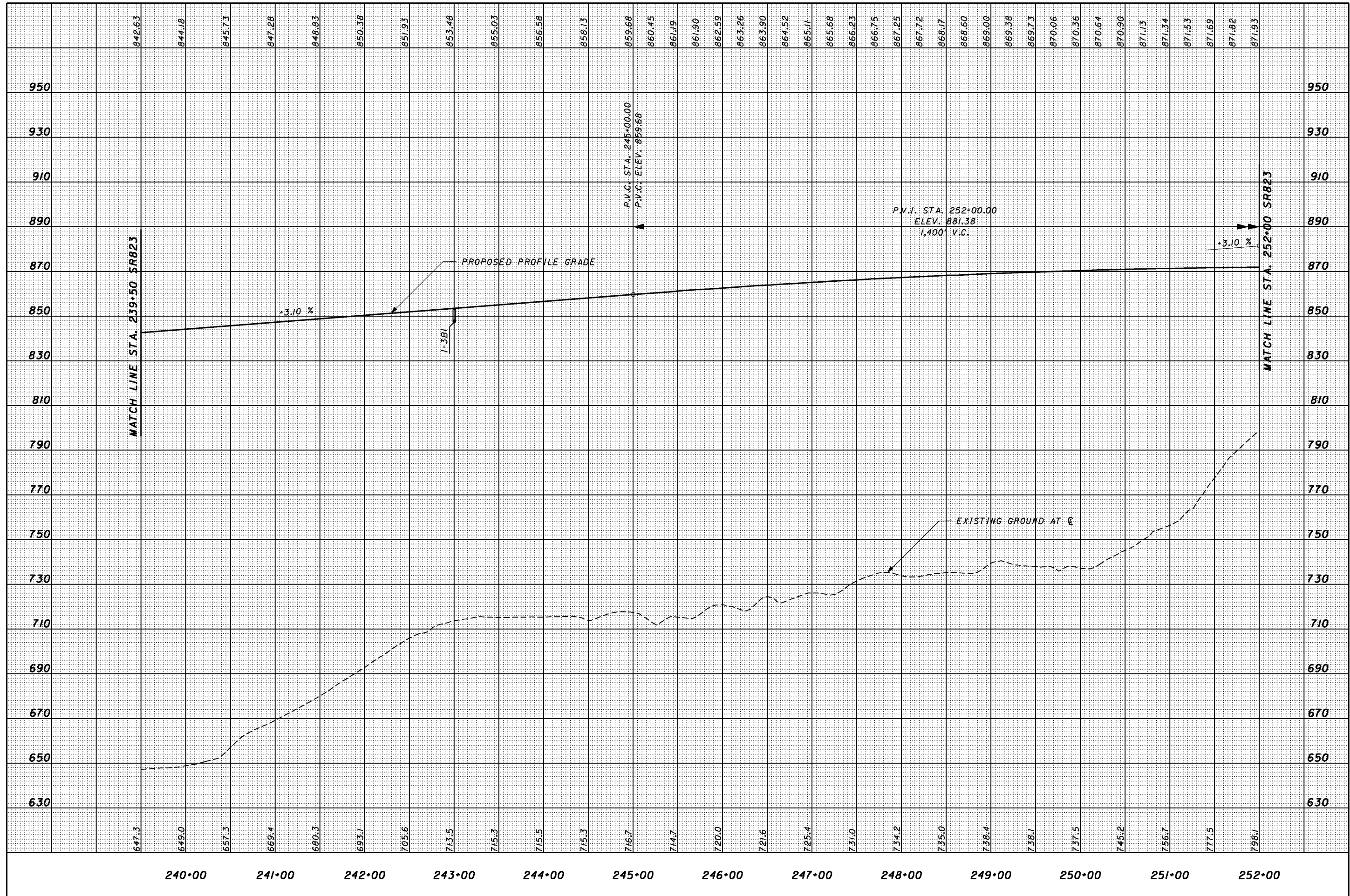
75

07-0455.000  
 LINDA C. AND  
 LYNN R. WESSELL

07-2554.000  
 KENNETH CORIELL  
 REVOCABLE TRUST AND  
 ROGER C. CORIELL, JR.

07-0455.000  
 LINDA C. AND  
 LYNN R. WESSELL



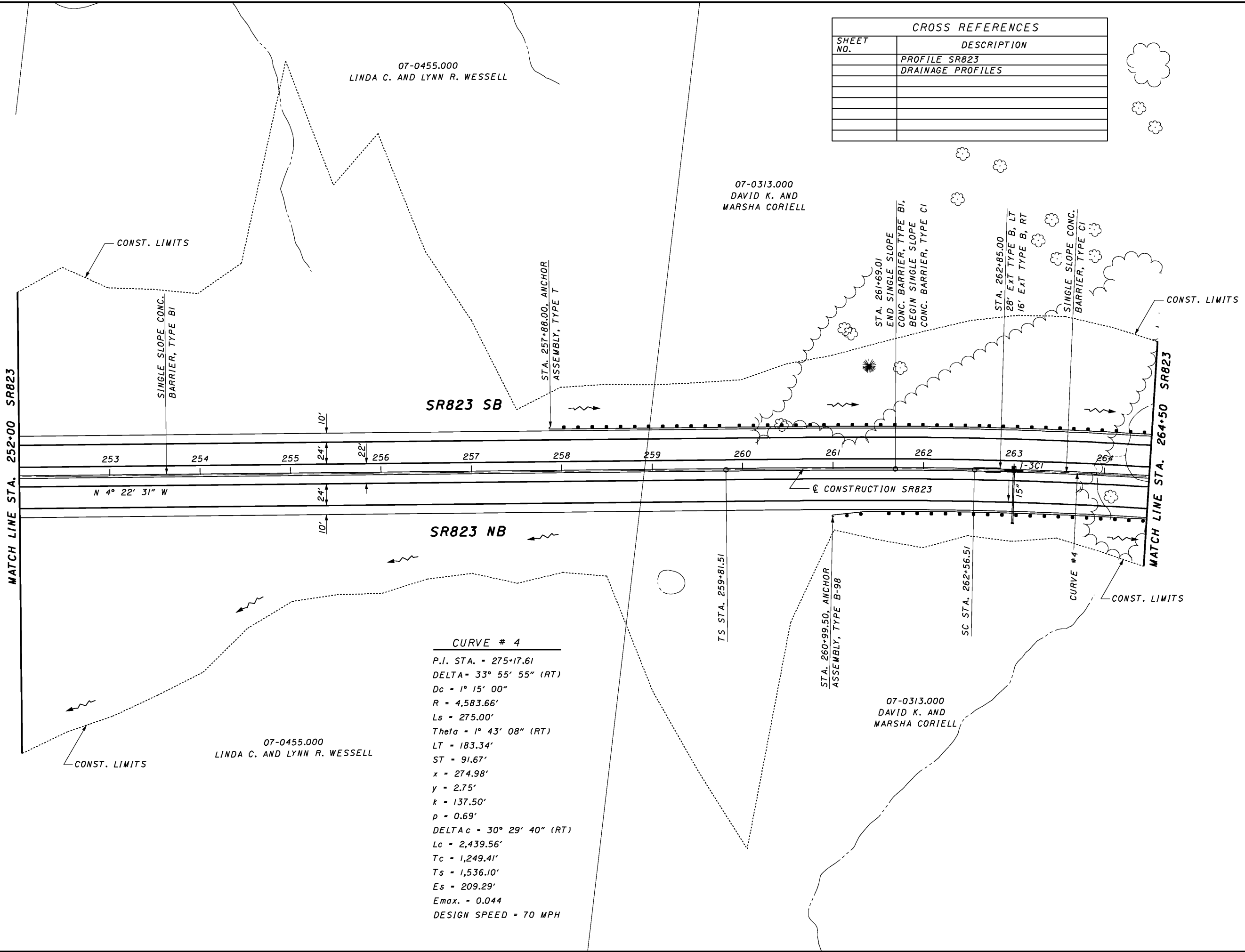


**PROFILE - SR823**  
**STA. 239+50 TO STA. 252+00**

**SCI-823-0.00**

CALCULATED  
JFA  
CHECKED  
RN

G:\C003\0064\Road\PHASE\_3\171366.dwg 1/30/2008 11:38 AM




CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	DRAINAGE PROFILES

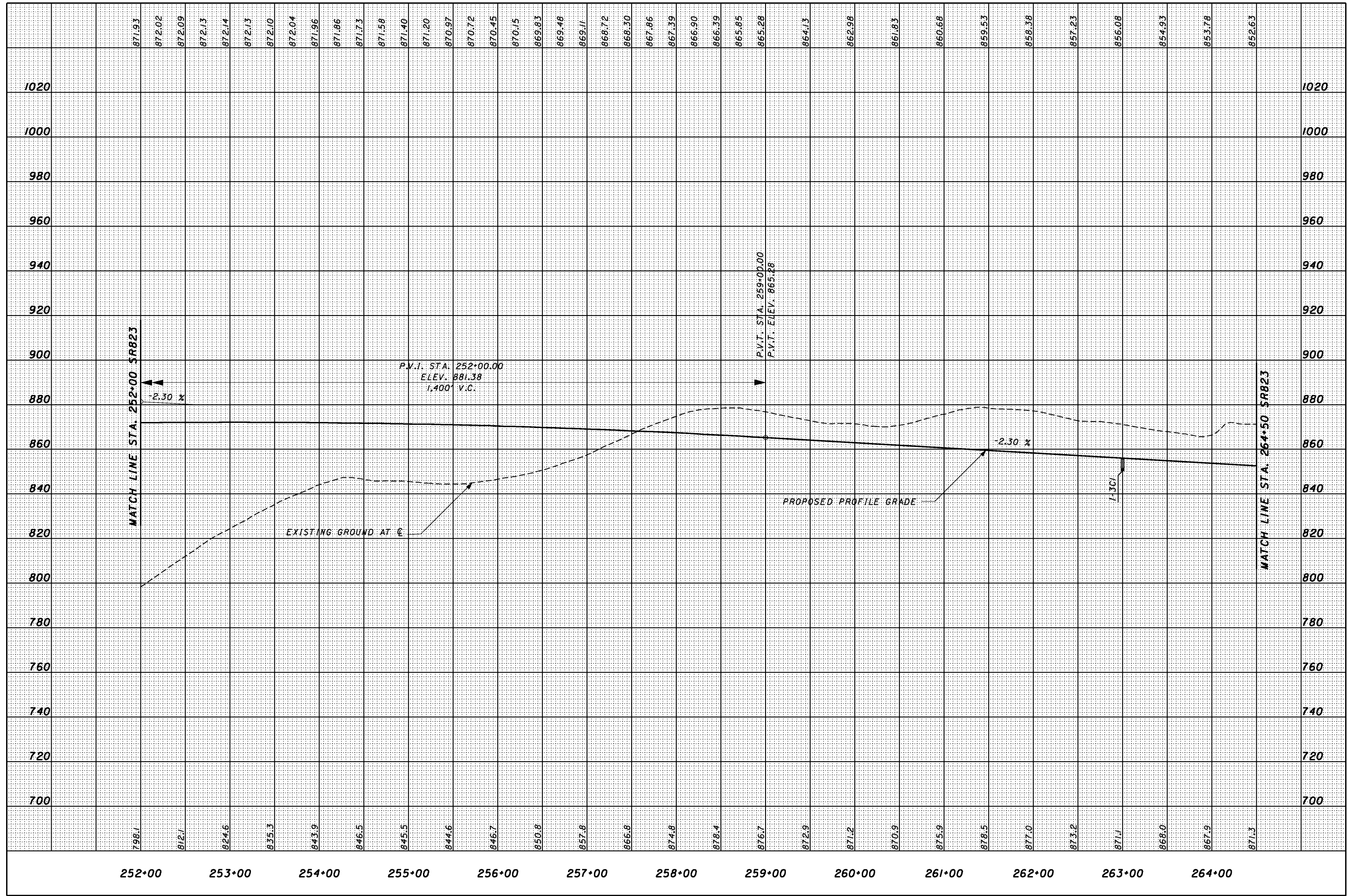
  
 HORIZONTAL SCALE IN FEET

CALCULATED DL  
 CHECKED RW  
**PLAN - SR823**  
**STA. 252+00.00 TO 264+50.00**

**SCI-823-0.00**  


**CURVE # 4**

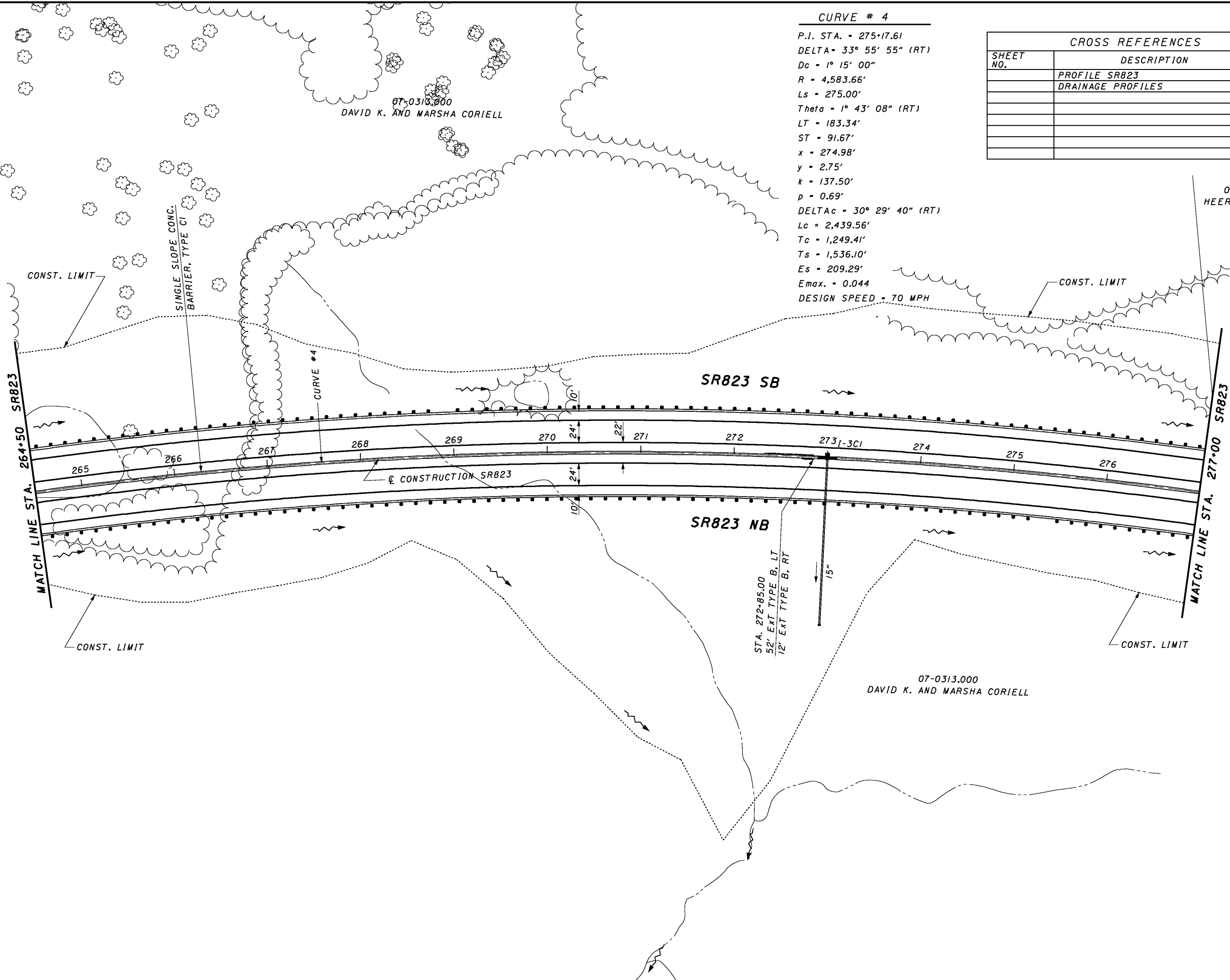
P.I. STA. = 275+17.61
DELTA = 33° 55' 55" (RT)
Dc = 1° 15' 00"
R = 4,583.66'
Ls = 275.00'
Theta = 1° 43' 08" (RT)
LT = 183.34'
ST = 91.67'
x = 274.98'
y = 2.75'
k = 137.50'
p = 0.69'
DELTA c = 30° 29' 40" (RT)
Lc = 2,439.56'
Tc = 1,249.41'
Ts = 1,536.10'
Es = 209.29'
E <sub>max</sub> = 0.044
DESIGN SPEED = 70 MPH



**PROFILE - SR823**  
**STA. 252+00 TO STA. 264+50**

**SCI-823-0.00**

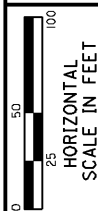
1/30/2008 11:30:49 AM G:\C003\0064\Road\PHASE 3\171365dpl8\_sr823.sht



**CURVE # 4**  
 P.I. STA. = 275+17.61  
 DELTA = 33° 55' 55" (RT)  
 Dc = 1° 15' 00"  
 R = 4,583.66'  
 Ls = 275.00'  
 Theta = 1° 43' 08" (RT)  
 LT = 183.34'  
 ST = 91.67'  
 x = 274.98'  
 y = 2.75'  
 k = 137.50'  
 p = 0.69'  
 DELTAc = 30° 29' 40" (RT)  
 Lc = 2,439.56'  
 Tc = 1,249.41'  
 Ts = 1,536.10'  
 Es = 209.29'  
 Emax. = 0.044  
 DESIGN SPEED = 70 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	DRAINAGE PROFILES

07-0607.000  
 HEER AND COMPANY

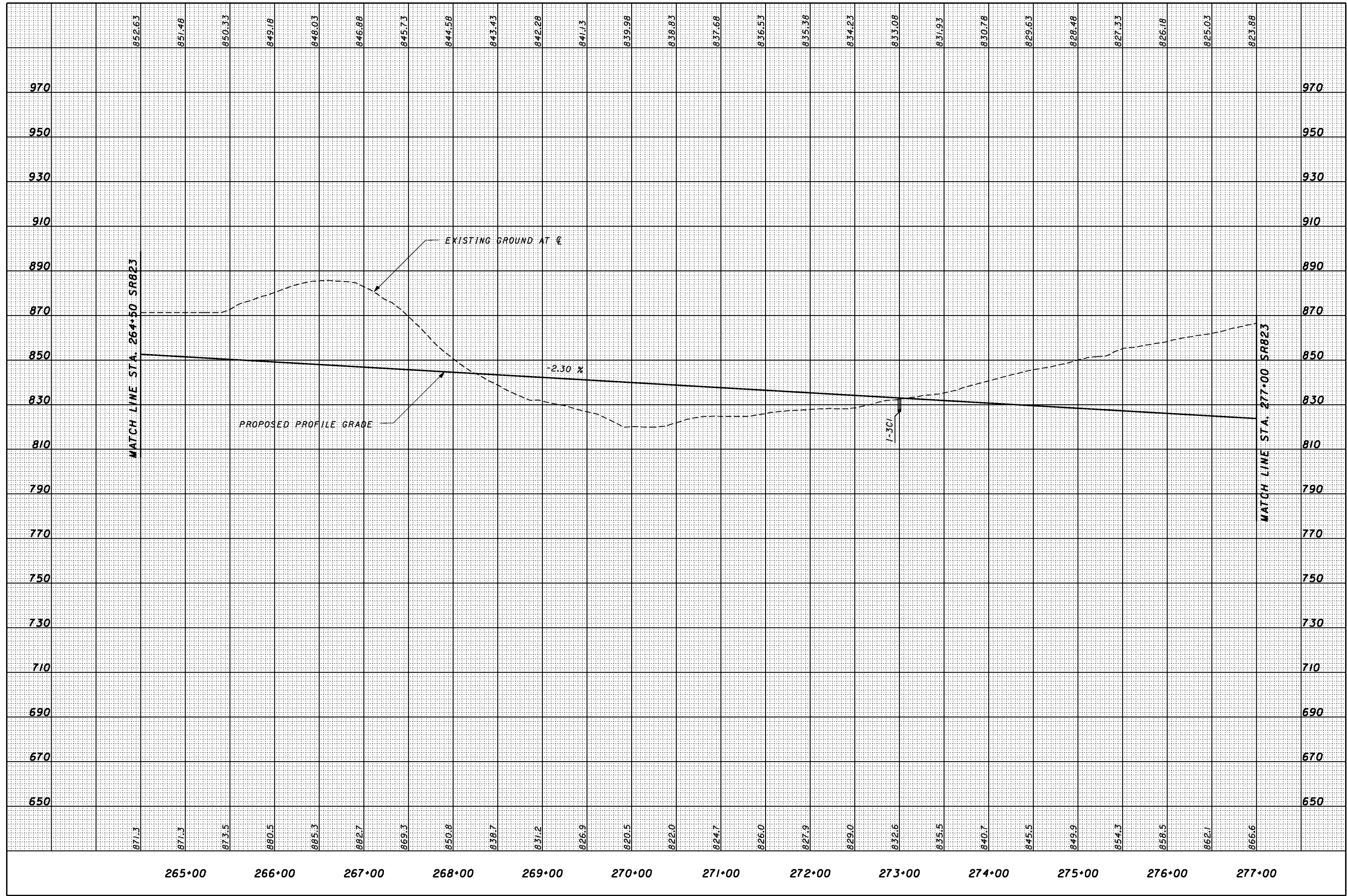


CALCULATED DL  
 CHECKED RW

PLAN - SR823  
 STA. 264+50.00 TO STA. 277+00.00

SCI-823-0.00

1/30/2008 8:30:50 AM G:\C003\0064\Road\PHASE 3\171366g18\_sr823.sht



CALCULATED  
JFA  
CHECKED  
RN

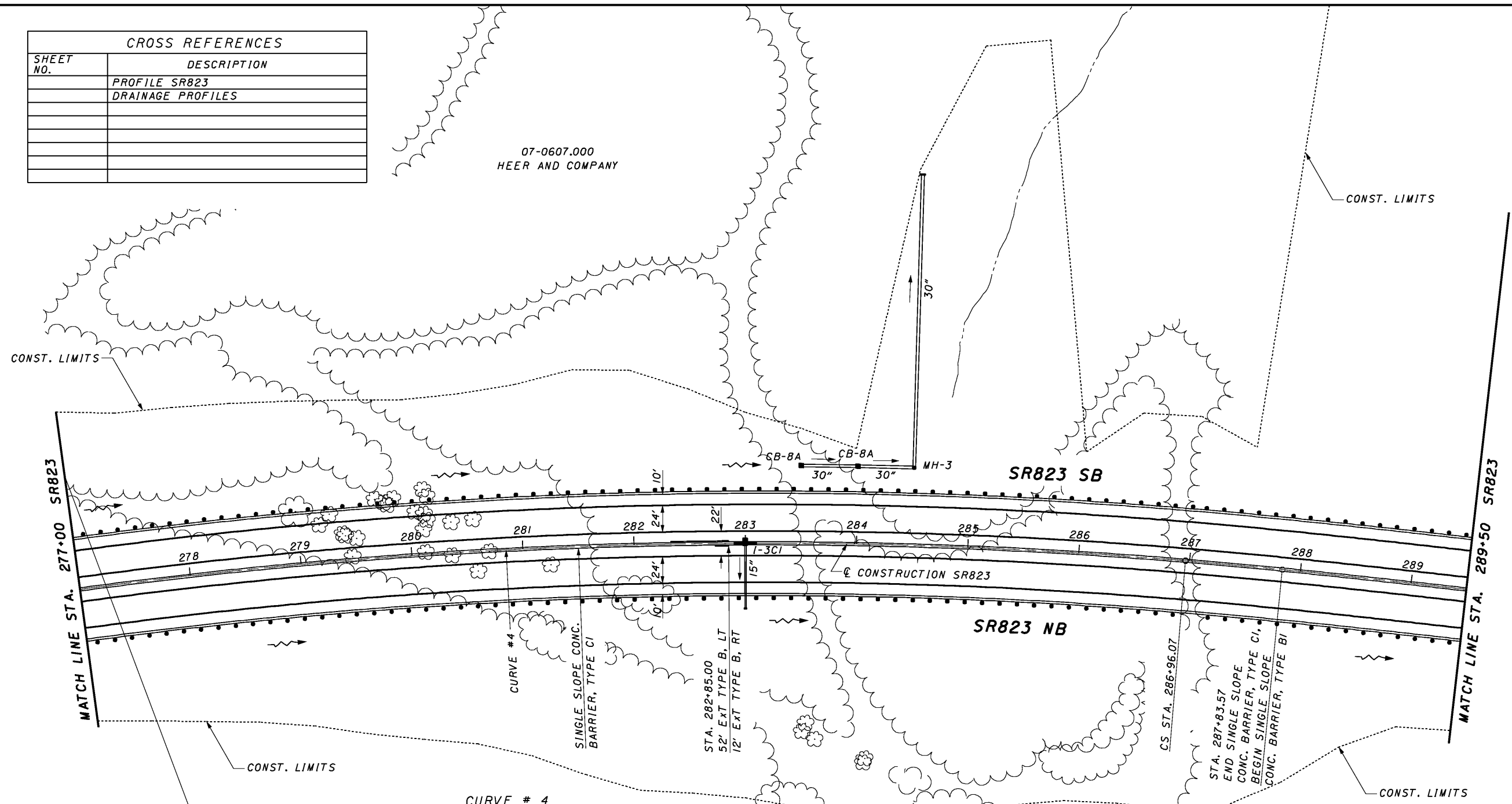
PROFILE - SR823  
STA. 264+50 TO STA. 277+00

SCI-823-0.00



CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	DRAINAGE PROFILES

07-0607.000  
HEER AND COMPANY



**CURVE # 4**

P.I. STA. = 275+17.61  
 DELTA = 33° 55' 55" (RT)  
 Dc = 1° 15' 00"  
 R = 4,583.66'  
 Ls = 275.00'  
 Theta = 1° 43' 08" (RT)  
 LT = 183.34'  
 ST = 91.67'  
 x = 274.98'  
 y = 2.75'  
 k = 137.50'  
 p = 0.69'  
 DELTAc = 30° 29' 40" (RT)  
 Lc = 2,439.56'  
 Tc = 1,249.41'  
 Ts = 1,536.10'  
 Es = 209.29'  
 Emax. = 0.044  
 DESIGN SPEED = 70 MPH

07-0313.000  
DAVID K. AND MARSHA CORIELL

07-0607.000  
HEER AND COMPANY

07-0610.000  
HEER AND COMPANY

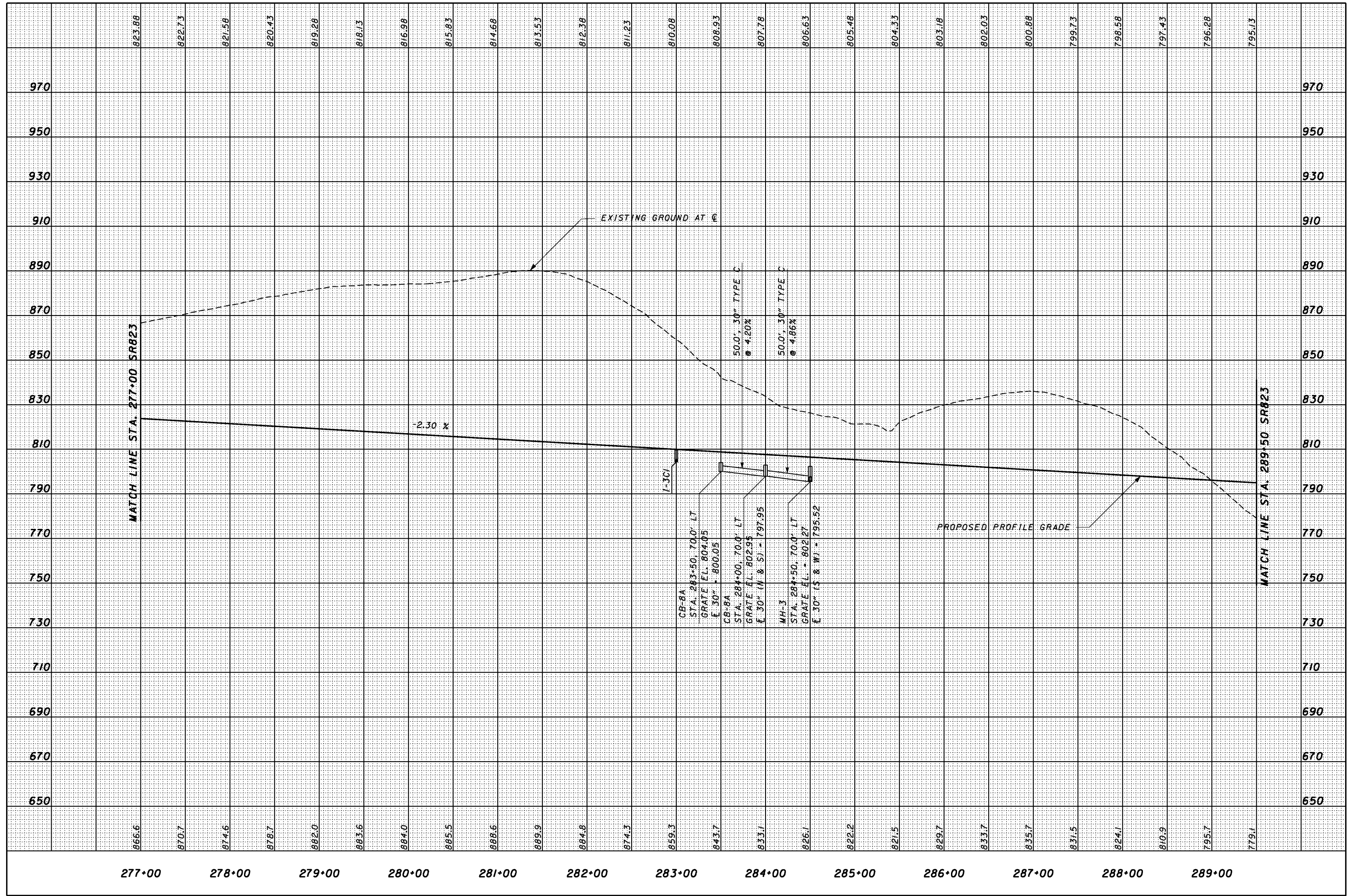


CALCULATED DL  
 CHECKED RW

PLAN - SR823  
 STA. 277+00.00 TO 289+50.00

SCI-823-0.00

1/30/2008 G:\C003\0064\Road\PHASE 3\171366.dwg sr823.sht

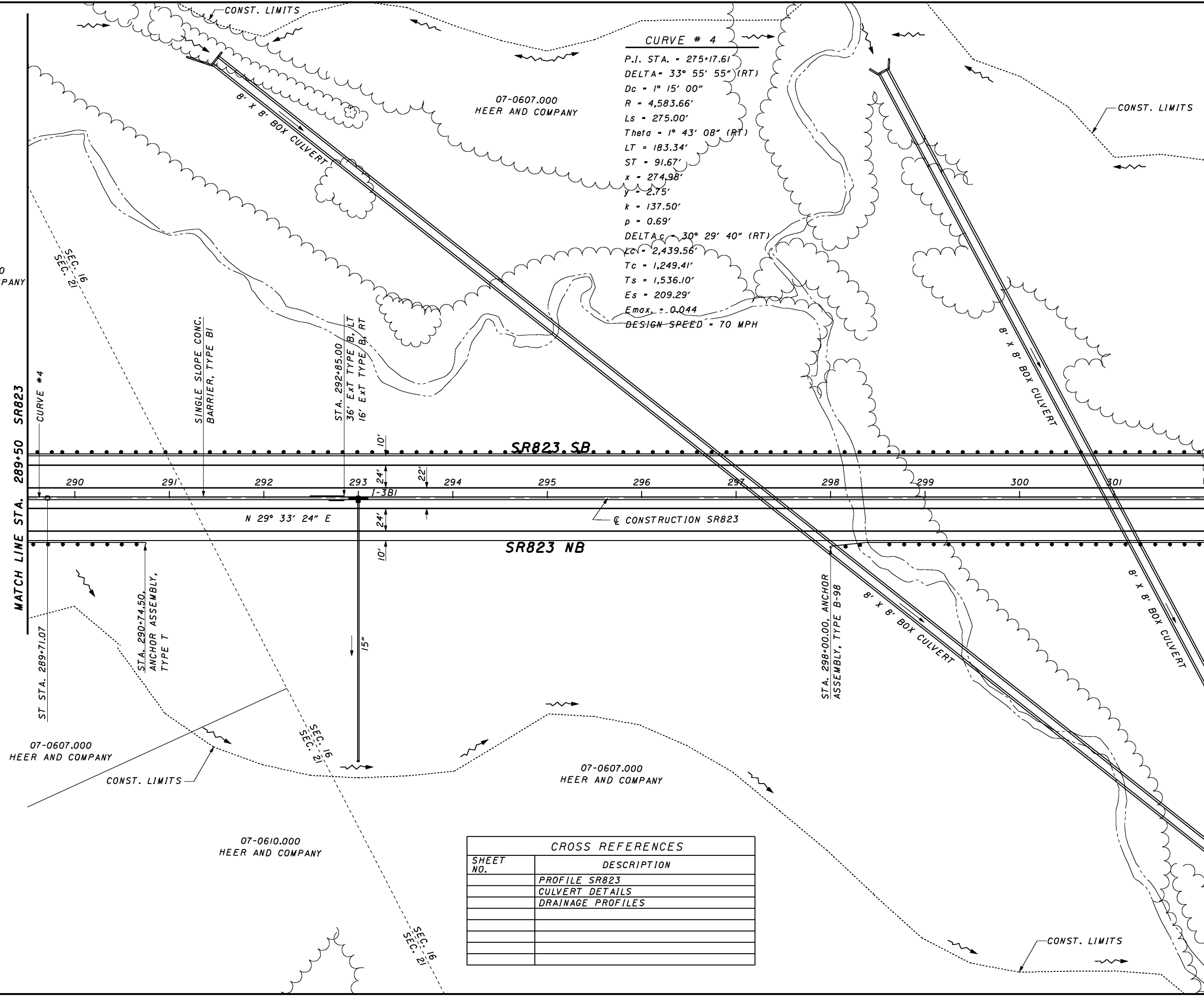


CALCULATED  
JFA  
CHECKED  
RN

PROFILE - SR823  
STA. 277+00 TO STA. 289+50

SCI-823-0.00

1/30/2008 G:\C003\0064\Road\PHASE 3\1713656p20\_sr-823.sht



**CURVE # 4**  
 P.I. STA. = 275+17.61  
 DELTA = 33° 55' 55" (RT)  
 Dc = 1° 15' 00"  
 R = 4,583.66'  
 Ls = 275.00'  
 Theta = 1° 43' 08" (RT)  
 LT = 183.34'  
 ST = 91.67'  
 x = 274.98'  
 y = 2.75'  
 k = 137.50'  
 p = 0.69'  
 DELTA c = 30° 29' 40" (RT)  
 Lc = 2,439.56'  
 Tc = 1,249.41'  
 Ts = 1,536.10'  
 Es = 209.29'  
 Emax = -0.044  
 DESIGN SPEED = 70 MPH

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

07-0607.000  
HEER AND COMPANY

CALCULATED DL  
CHECKED RW

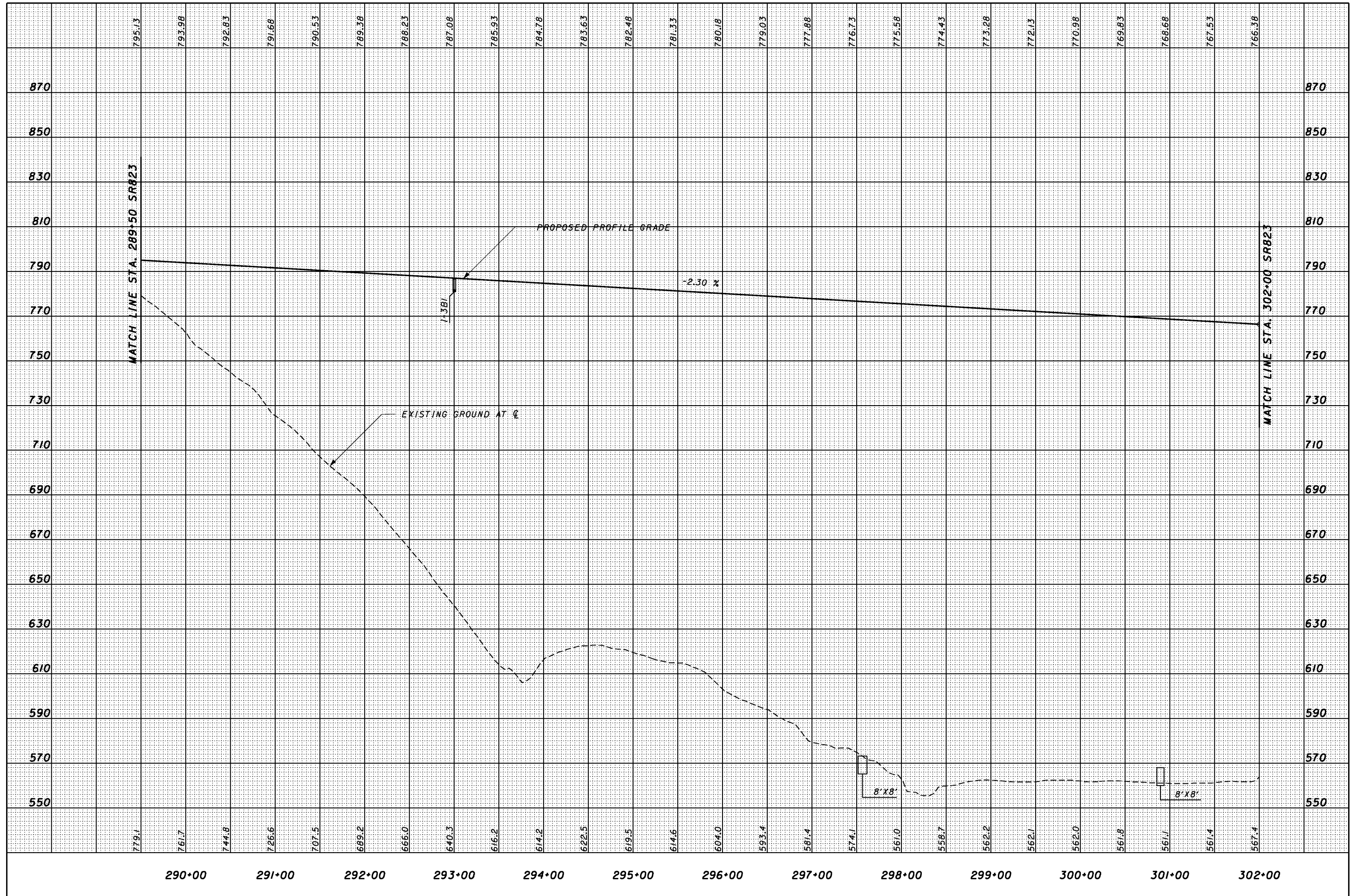
07-0610.000  
HEER AND COMPANY

**PLAN - SR823**  
**STA. 289+50.00 TO STA. 302+00.00**

**SCI-823-0.00**

83





CALCULATED  
JFA  
CHECKED  
RN

**PROFILE - SR823**  
**STA. 289+50 TO STA. 302+00**

**SCI-823-0.00**

1/30/2008 11:22 AM G:\C003\0064\Road\PHASE 3\171366dp2\sr823.sht

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

CONST. LIMITS

MATCH LINE STA. 302+00 SR823

STA. 302+85.00  
16' EXT. TYPE B, LT  
16' EXT. TYPE B, RT

15"

303

304

305

10'

306

22'

307

308

309

310

311

312

313

314

T-3BI

24'

N 29° 33' 24" E

Q CONSTRUCTION SR823

T-3BI

MATCH LINE STA. 302+00 SR823



SR823 NB

SINGLE SLOPE CONC.  
BARRIER, TYPE BI

07-0607.000  
HEER AND COMPANY

CONST. LIMITS

07-0607.000  
HEER AND COMPANY

SR823 SB

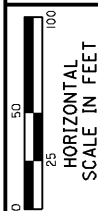
CONST. LIMITS

MATCH LINE STA. 314+50 SR823

STA. 312+85.00  
16' EXT. TYPE B, LT  
16' EXT. TYPE B, RT

15"

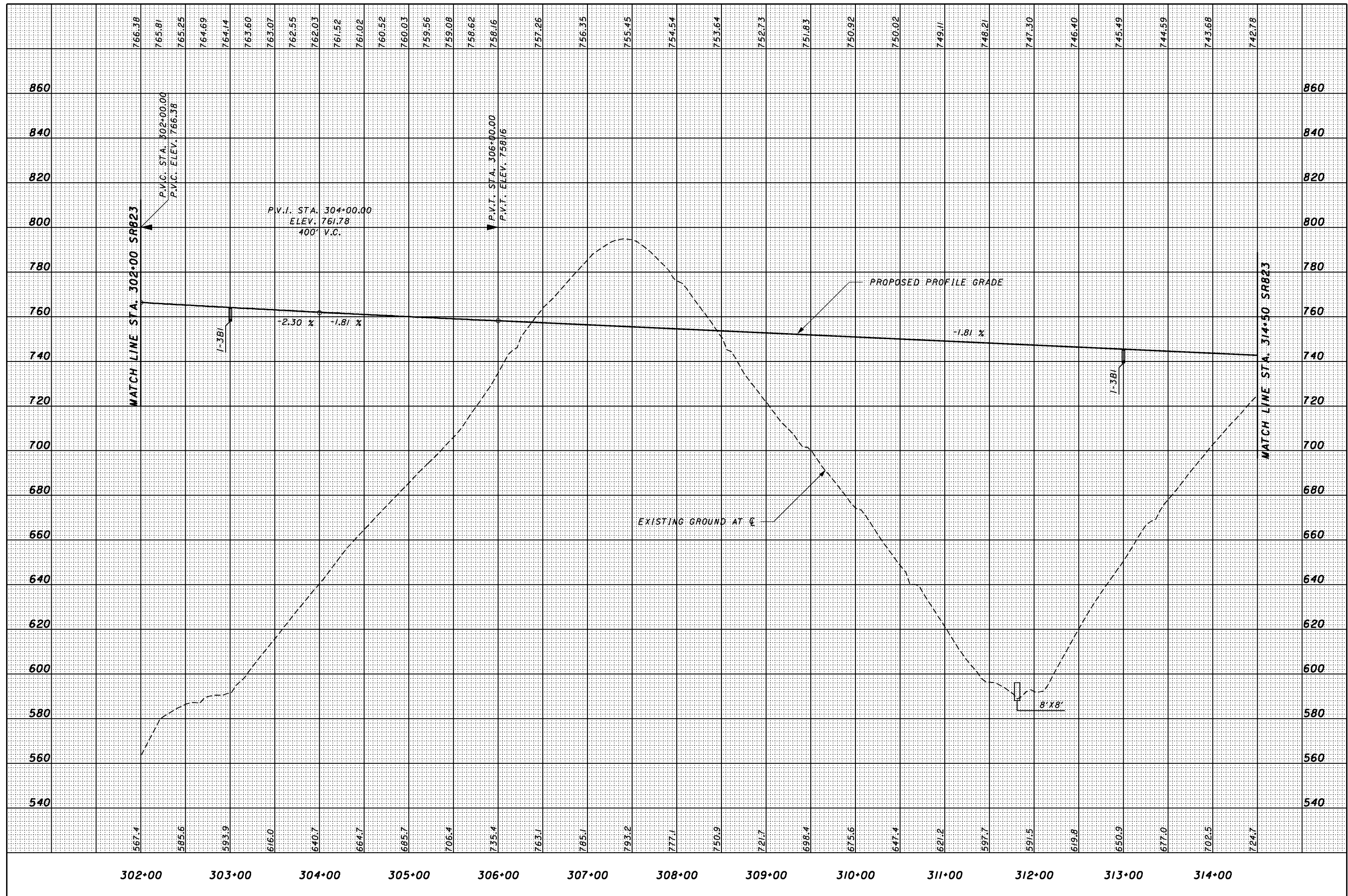
CONST. LIMITS



CALCULATED  
DL  
CHECKED  
RW

PLAN - SR823  
STA. 302+00.00 TO STA. 314+50.00

SCI-823-0.00

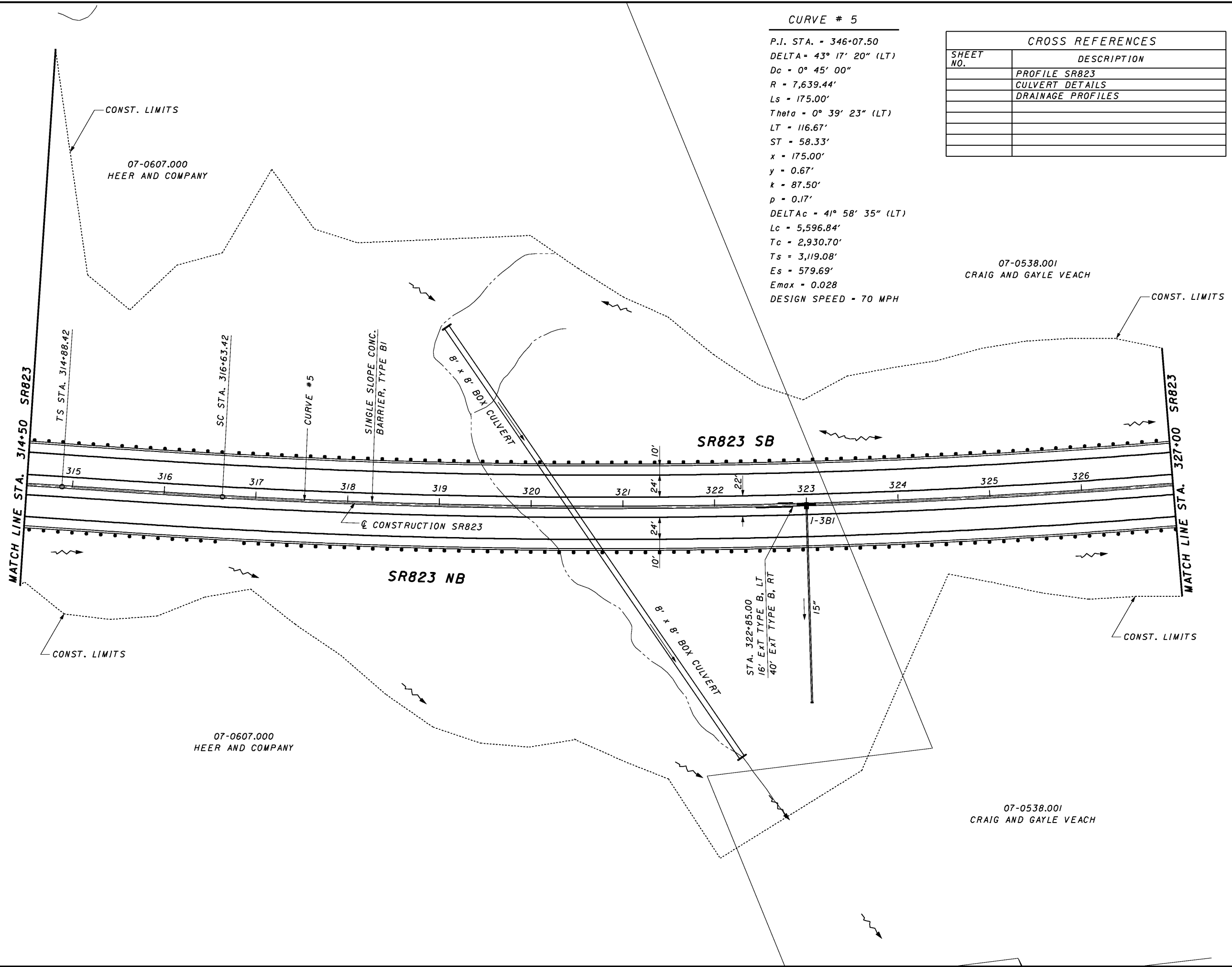


CALCULATED  
JFA  
CHECKED  
RN

**PROFILE - SR823**  
**STA. 302+00 TO STA. 314+50**

**SCI - 823 - 0.00**

1/30/2008 11:34 AM G:\C003\0064\Road\PHASE 3\1713656p22\_sr823.sht



**CURVE # 5**  
 P.I. STA. = 346+07.50  
 DELTA = 43° 17' 20" (LT)  
 Dc = 0° 45' 00"  
 R = 7,639.44'  
 Ls = 175.00'  
 Theta = 0° 39' 23" (LT)  
 LT = 116.67'  
 ST = 58.33'  
 x = 175.00'  
 y = 0.67'  
 k = 87.50'  
 p = 0.17'  
 DELTAc = 41° 58' 35" (LT)  
 Lc = 5,596.84'  
 Tc = 2,930.70'  
 Ts = 3,119.08'  
 Es = 579.69'  
 Emax = 0.028  
 DESIGN SPEED = 70 MPH

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

HORIZONTAL SCALE IN FEET

CALCULATED DL

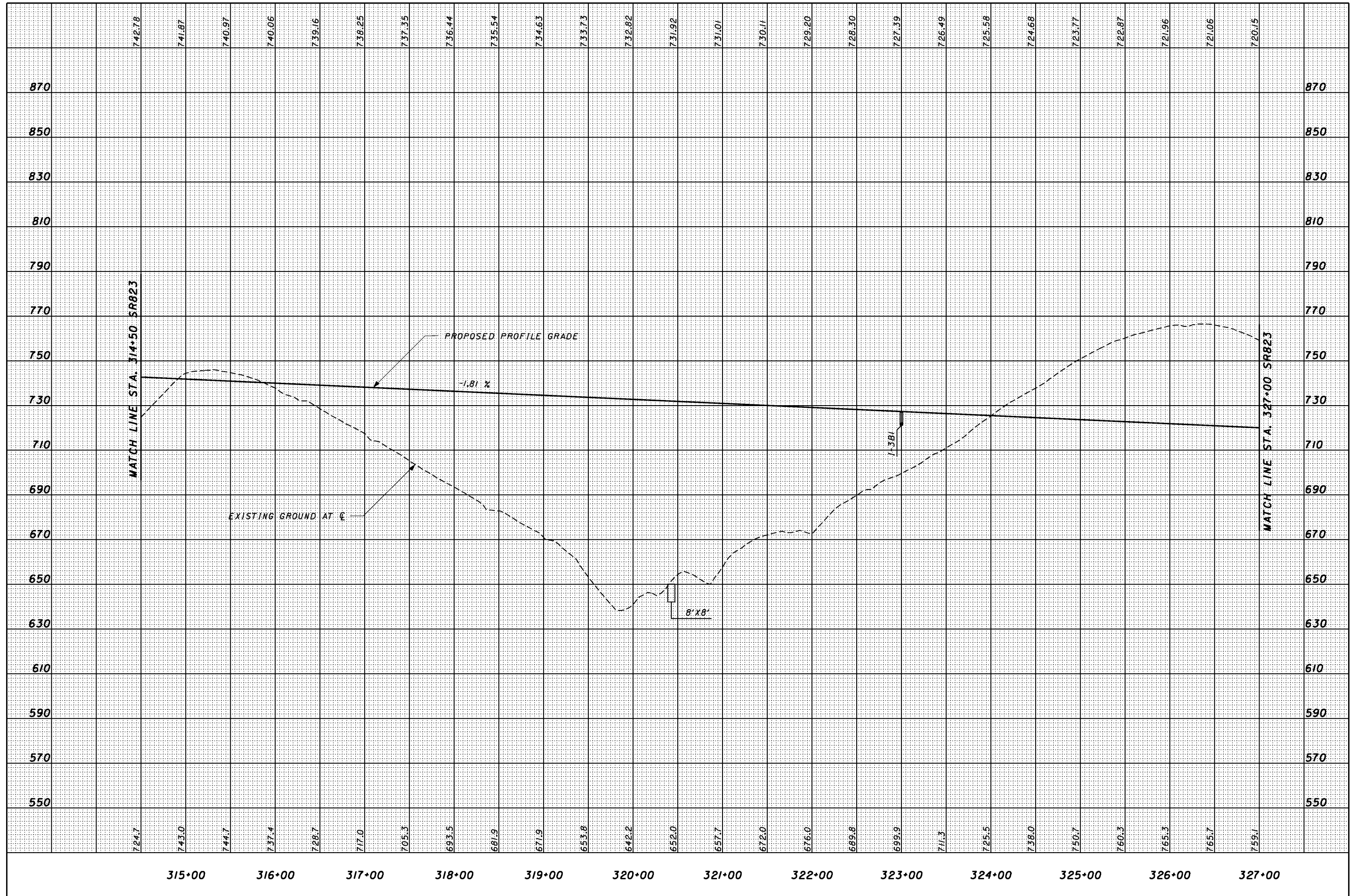
CHECKED RW

**PLAN - SR823**

**STA. 314+50.00 TO STA. 327+00.00**

**SCI-823-0.00**

87



PROFILE - SR823  
STA. 314+50 TO STA. 327+00

SCI-823-0.00

1/30/2008 11:45 AM G:\C003\0064\Road\PHASE 3\171366dp23\_sr823.sht

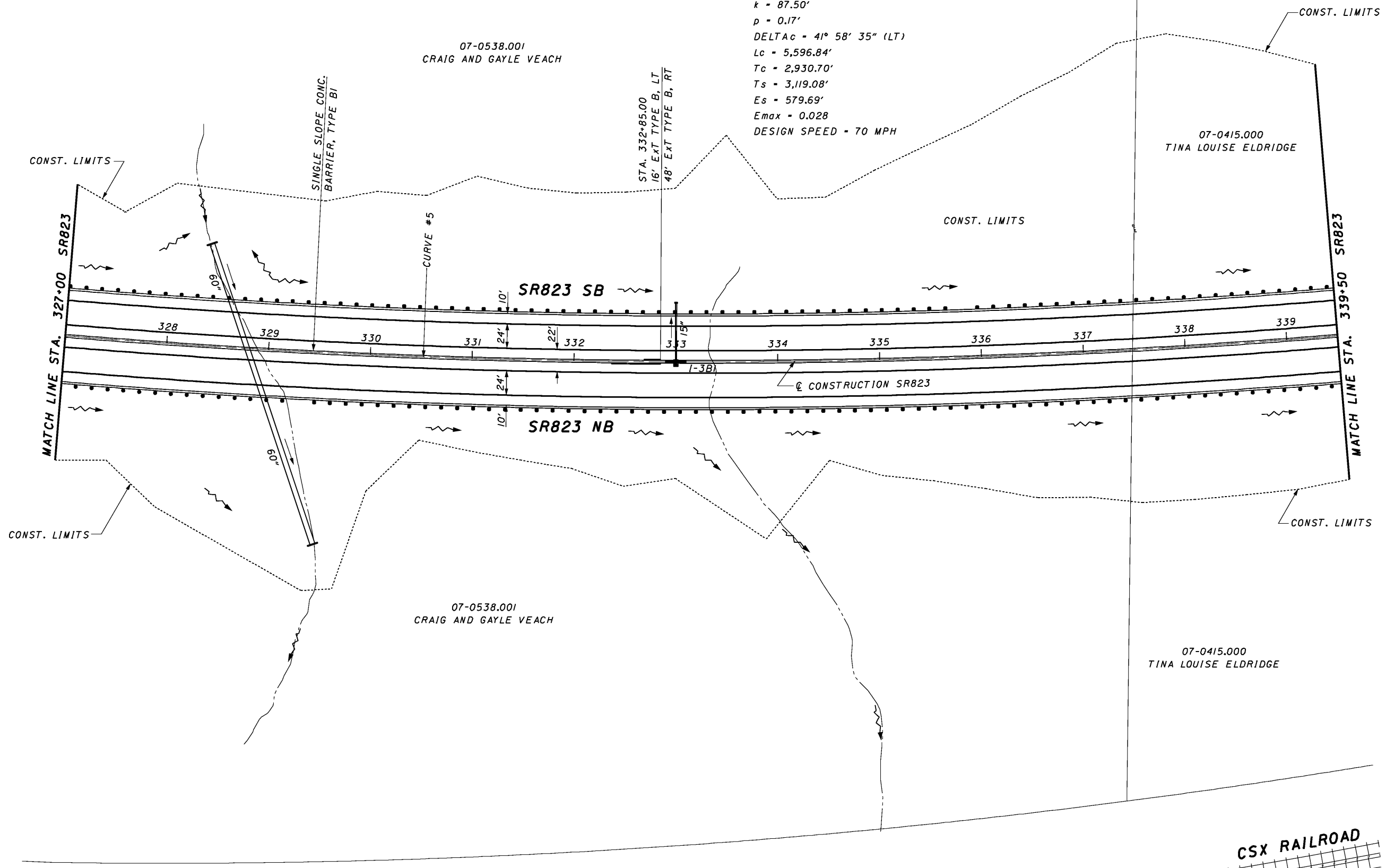
**CURVE # 5**

P.I. STA. - 346+07.50  
 DELTA - 43° 17' 20" (LT)  
 Dc - 0° 45' 00"  
 R - 7,639.44'  
 Ls - 175.00'  
 Theta - 0° 39' 23" (LT)  
 LT - 116.67'  
 ST - 58.33'  
 x - 175.00'  
 y - 0.67'  
 k - 87.50'  
 p - 0.17'  
 DELTAc - 41° 58' 35" (LT)  
 Lc - 5,596.84'  
 Tc - 2,930.70'  
 Ts - 3,119.08'  
 Es - 579.69'  
 Emax - 0.028  
 DESIGN SPEED - 70 MPH

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

0 25 50 100  
 HORIZONTAL SCALE IN FEET

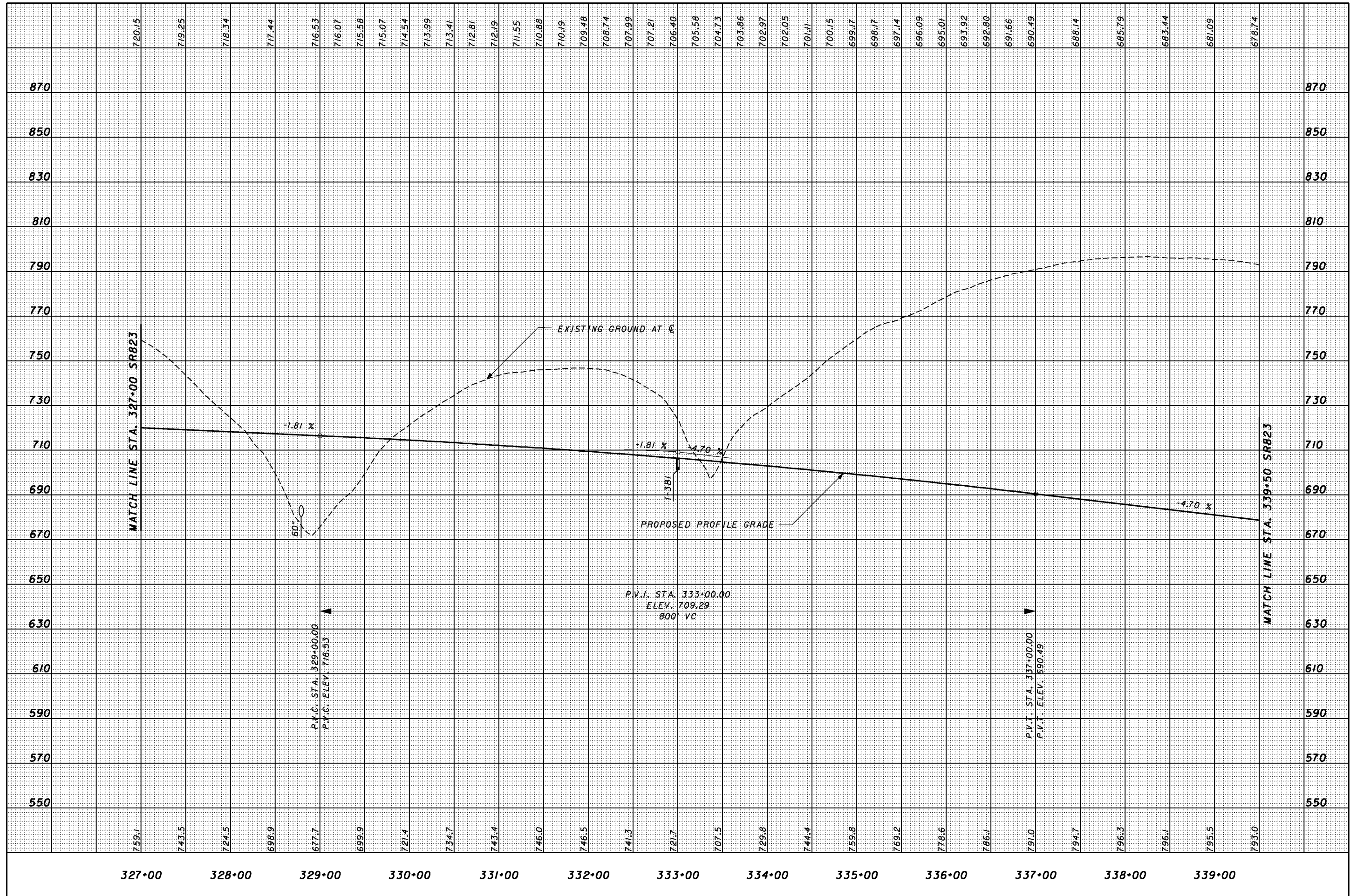
CALCULATED DL  
 CHECKED RW



PLAN - SR823  
 STA. 327+00.00 TO STA. 339+50.00

SCI-823-0.00





CALCULATED  
JFA  
CHECKED  
RN

PROFILE - SR823  
STA. 327+00 TO STA. 339+50

SCI-823-0.00

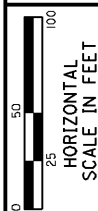
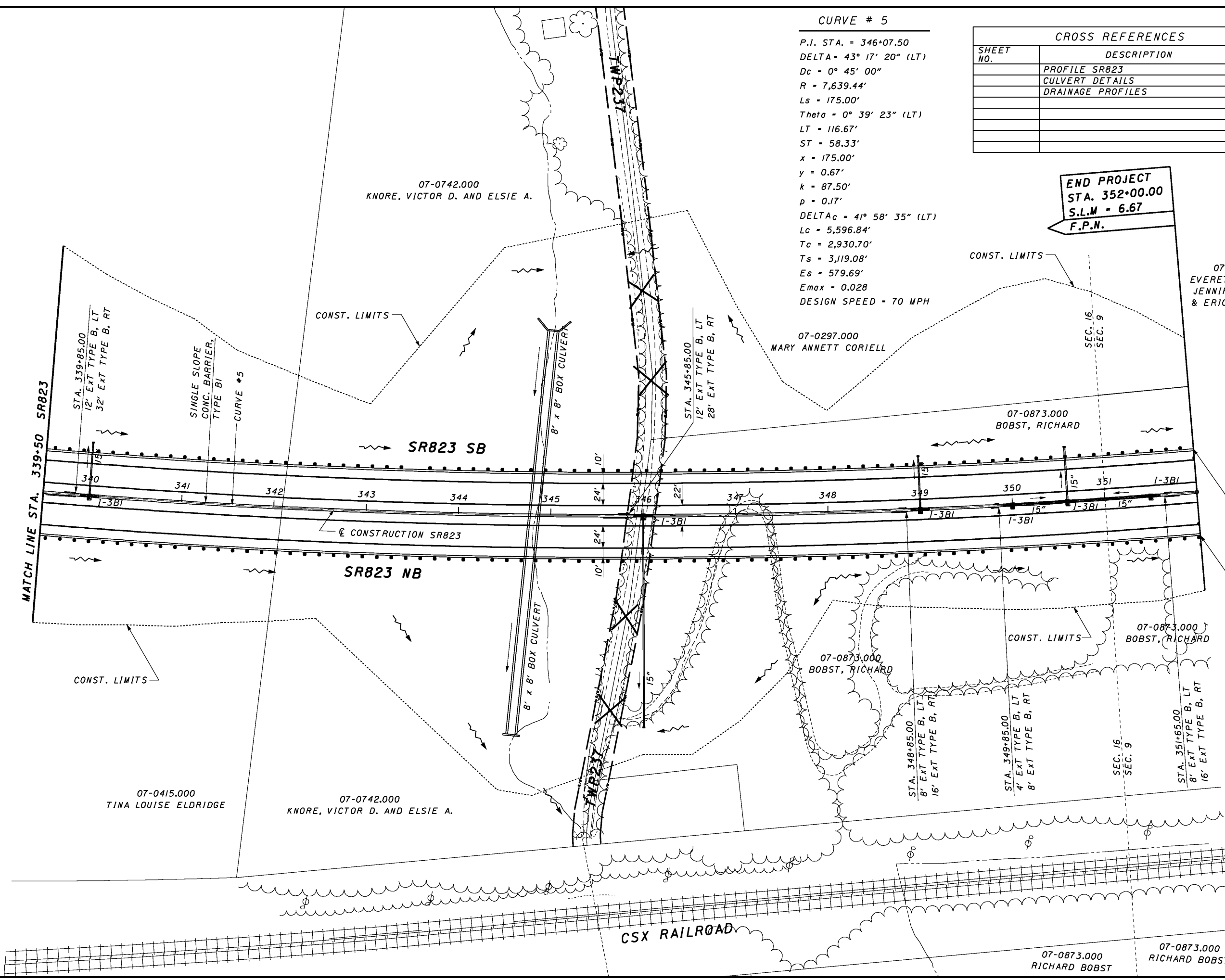
1/30/2008 11:56 AM G:\C003\0064\Road\PHASE 3\1713656p24\_sr823.sht

**CURVE # 5**

P.I. STA. = 346+07.50  
 DELTA = 43° 17' 20" (LT)  
 Dc = 0° 45' 00"  
 R = 7,639.44'  
 Ls = 175.00'  
 Theta = 0° 39' 23" (LT)  
 LT = 116.67'  
 ST = 58.33'  
 x = 175.00'  
 y = 0.67'  
 k = 87.50'  
 p = 0.17'  
 DELTA<sub>c</sub> = 41° 58' 35" (LT)  
 Lc = 5,596.84'  
 Tc = 2,930.70'  
 Ts = 3,119.08'  
 Es = 579.69'  
 Emax = 0.028  
 DESIGN SPEED = 70 MPH

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

**END PROJECT**  
 STA. 352+00.00  
 S.L.M = 6.67  
 F.P.N.



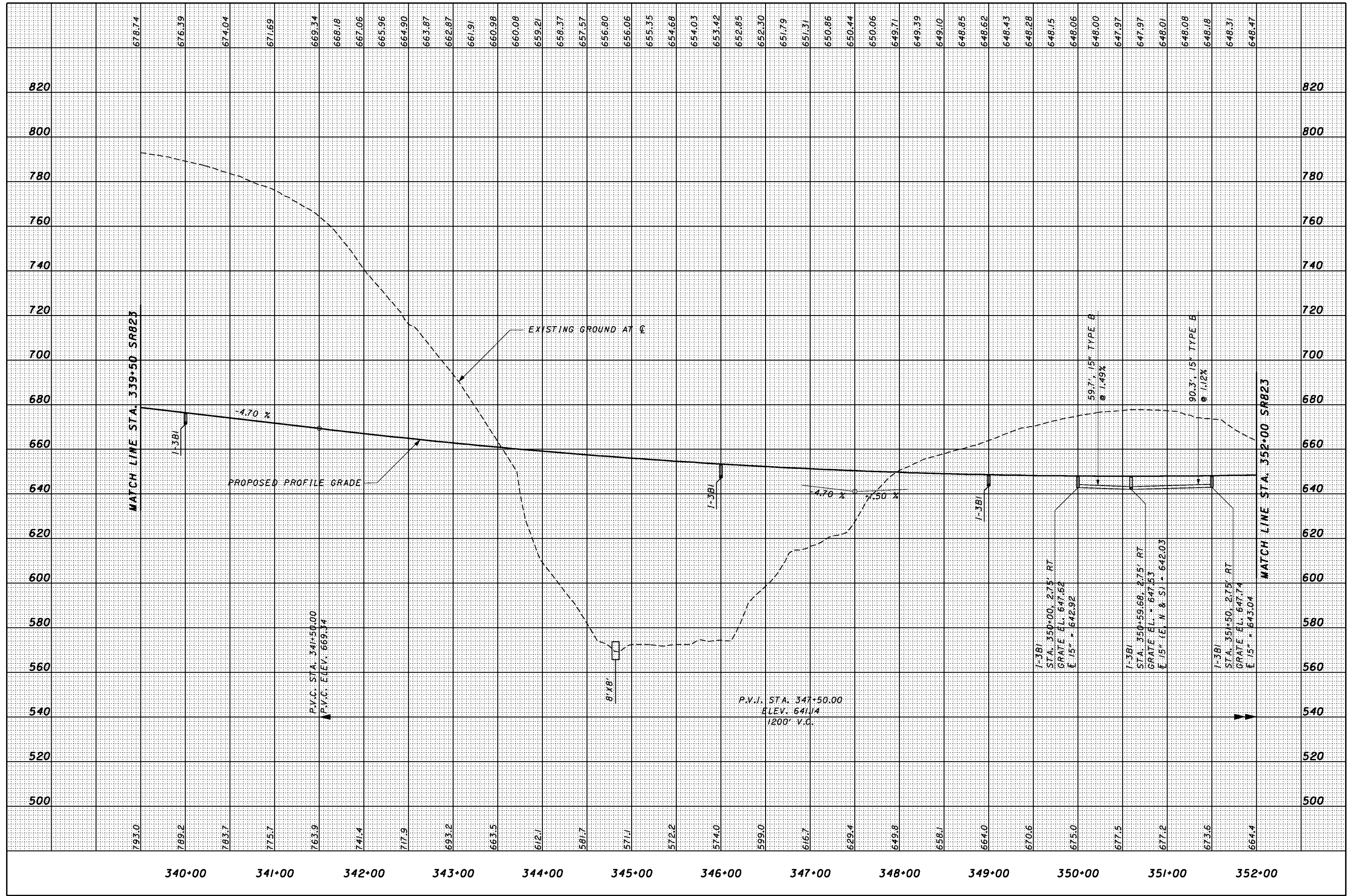
CALCULATED DL  
 CHECKED RW

**PLAN - SR823**  
**STA. 339+50.00 TO STA. 352+00.00**

**SCI-823-0.00**



1/30/2008 9:00:58 PM g:\co03\0064\road\phase\_3\77366of24\_sr823.sht



CALCULATED  
JFA  
CHECKED  
RN

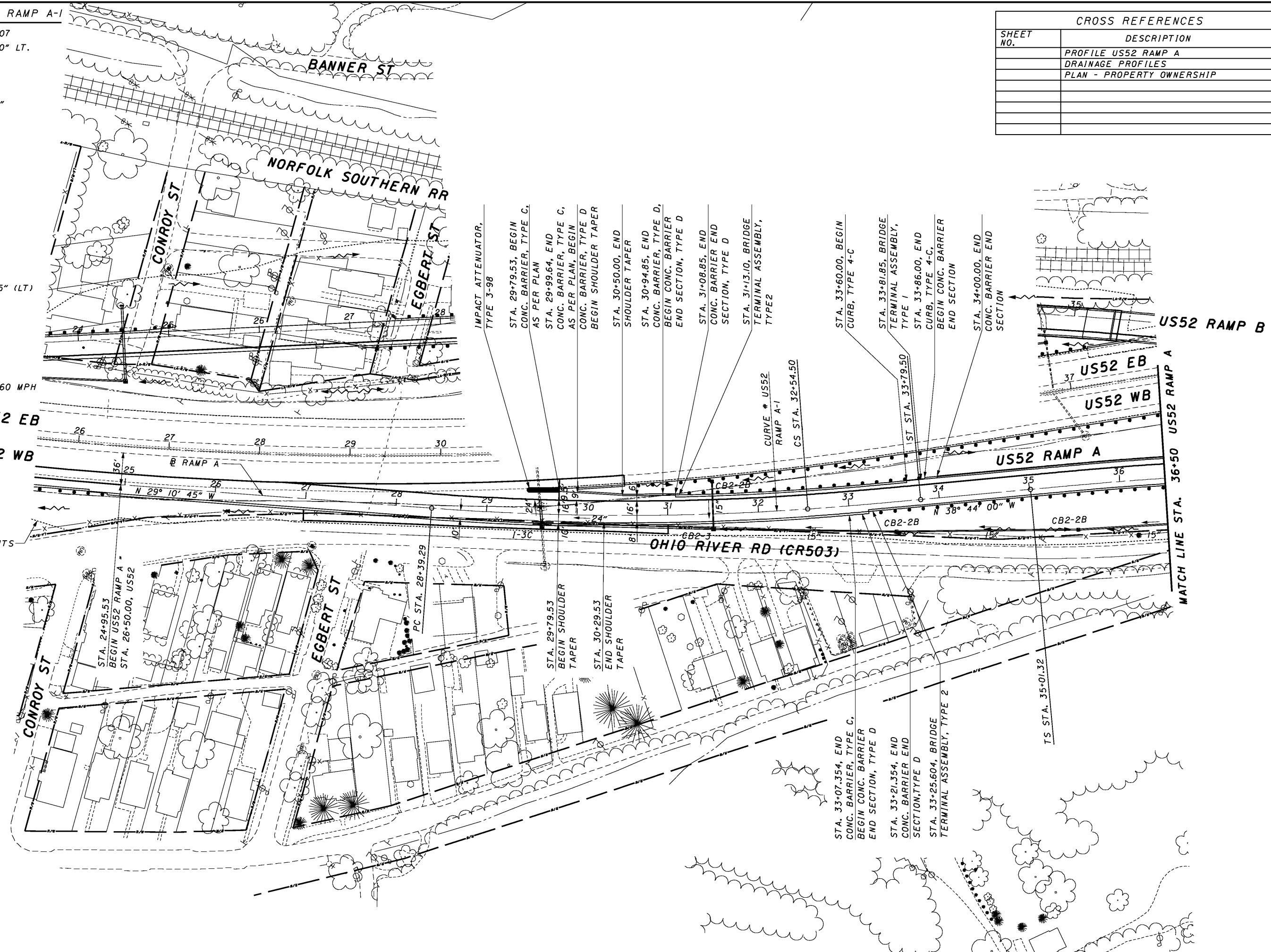
**PROFILE - SR823**  
**STA. 339+50 TO STA. 352+00**

**SCI-823-0.00**

CURVE # US52 RAMP A-1

P.I. STA. = 30+80.07  
 DELTA = 9°33'15.40" LT.  
 Dc = 2° 00' 00"  
 R = 2,864.79'  
 Ls2 = 125.00'  
 Theta2 = 1° 15' 00"  
 LT1 = 0.00'  
 LT2 = 83.34'  
 ST1 = 0.00'  
 ST2 = 41.67'  
 x1 = 0.00'  
 x2 = 124.99'  
 y1 = 0.00'  
 y2 = 0.91'  
 k1 = 0.00'  
 k2 = 62.50'  
 p1 = 0.00'  
 p2 = 0.23'  
 DELTAc = 8° 18' 15" (LT)  
 Lc = 415.21'  
 Tc = 207.97'  
 Ts1 = 240.78'  
 Ts2 = 300.56'  
 Es = 10.10'  
 Emax. = 0.051  
 DESIGN SPEED = 60 MPH

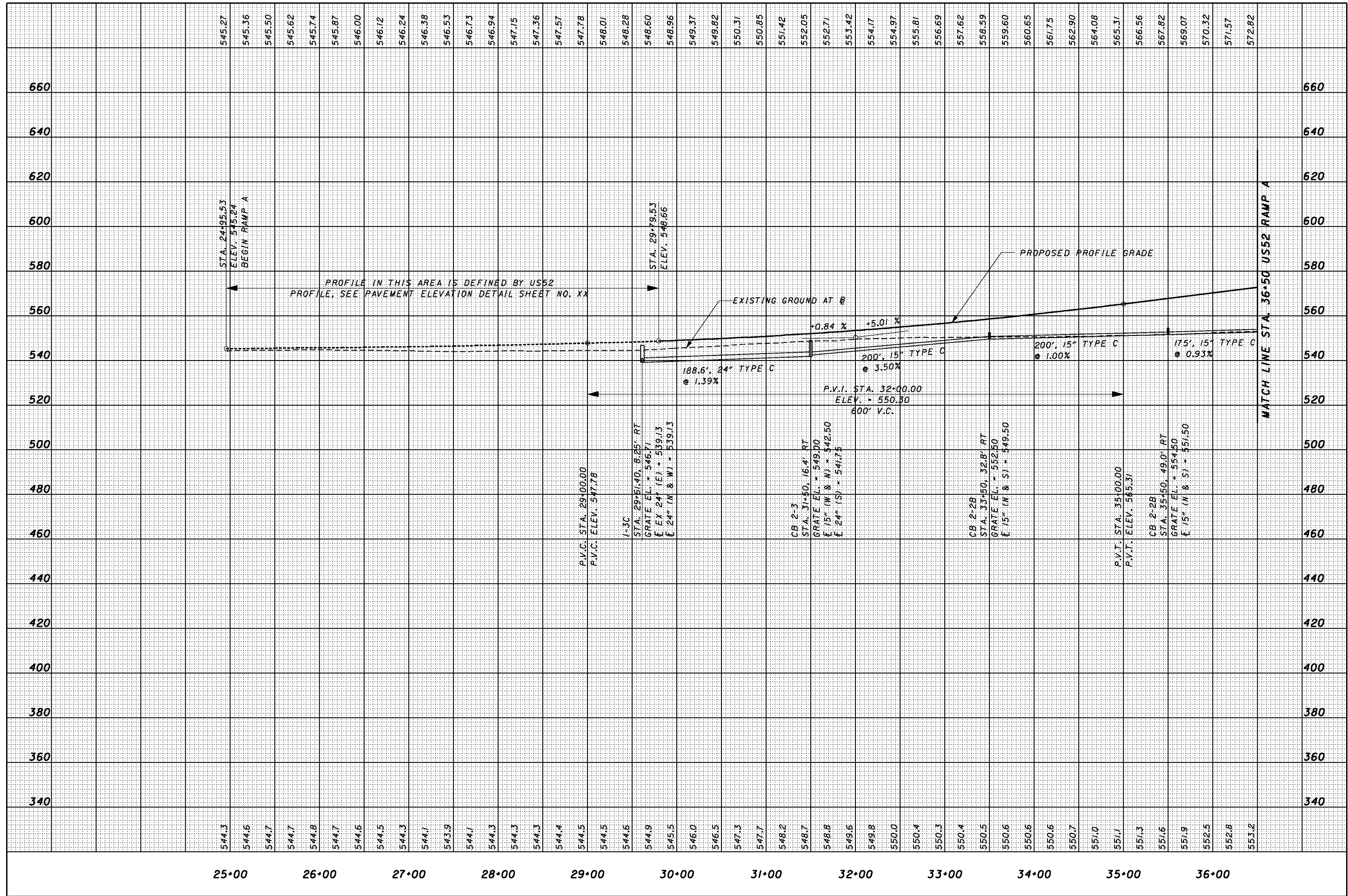
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US52 RAMP A
	DRAINAGE PROFILES
	PLAN - PROPERTY OWNERSHIP



PLAN - US52 RAMP A  
 STA. 24+95.53 TO STA. 36+50.00

SCI-823-0.00

4:04:15 PM 1/30/2008 g:\c03\0064\road\phase\_3\71366p01\_52r-ampca.sht

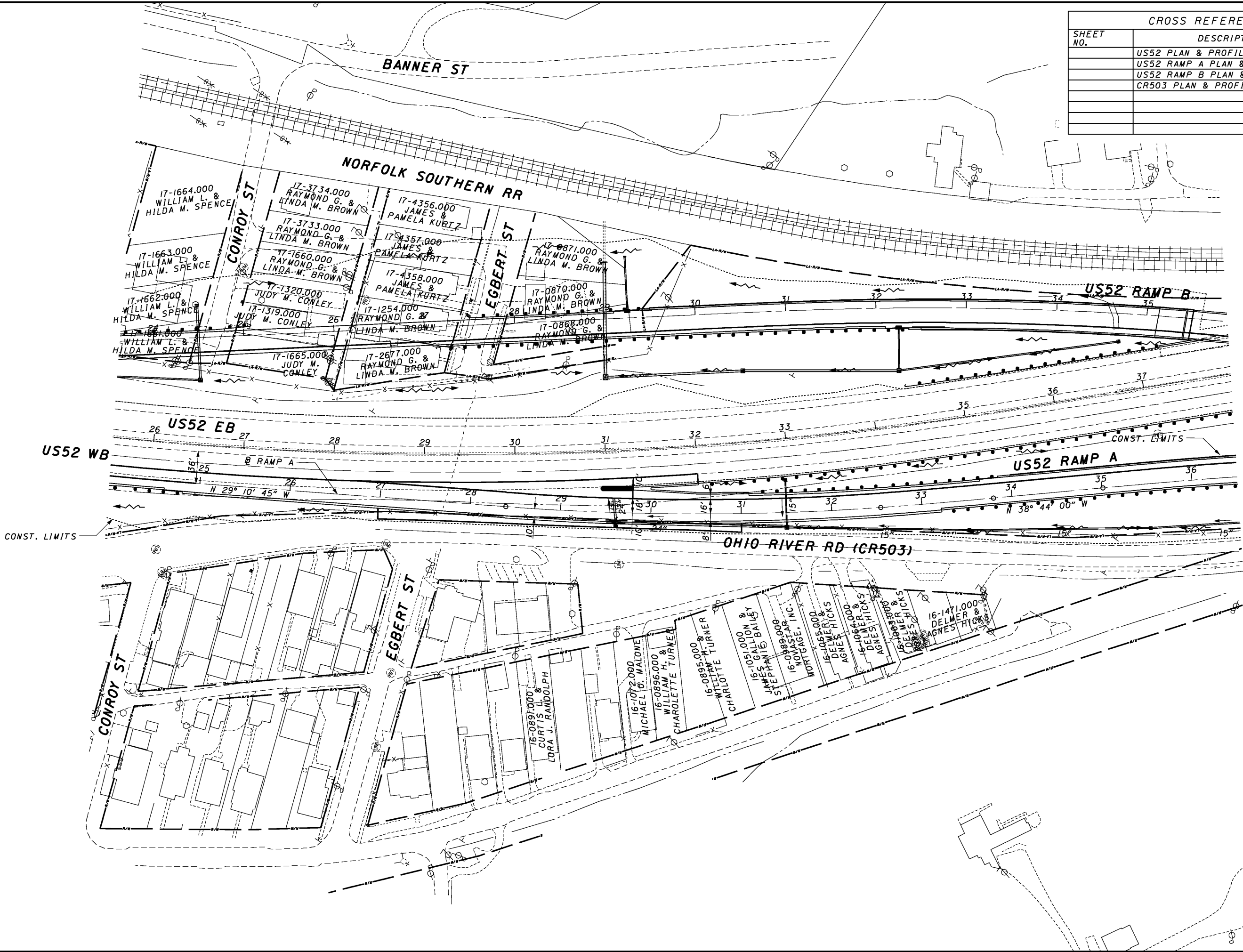


CALCULATED  
MT  
CHECKED  
RN

**PROFILE - US52 RAMP A**  
**STA. 24+95.53 TO STA. 36+50.00**

**SCI-823-0.00**

4-0105 PM 1/30/2008 g:\co03\0064\road\phase\_3\17366pp01a.52r.cmpa.sht



CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	US52 PLAN & PROFILE
	US52 RAMP A PLAN & PROFILE
	US52 RAMP B PLAN & PROFILE
	CR503 PLAN & PROFILE



PLAN - PROPERTY OWNERSHIP  
 US52, US52 RAMP A, US52 RAMP B AND CR503

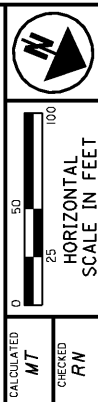
SCI-823-0.00



1/30/2008 1:30:23 PM g:\co03\0064\road\phase\_3\17366p02\_52r-amp.a.sht

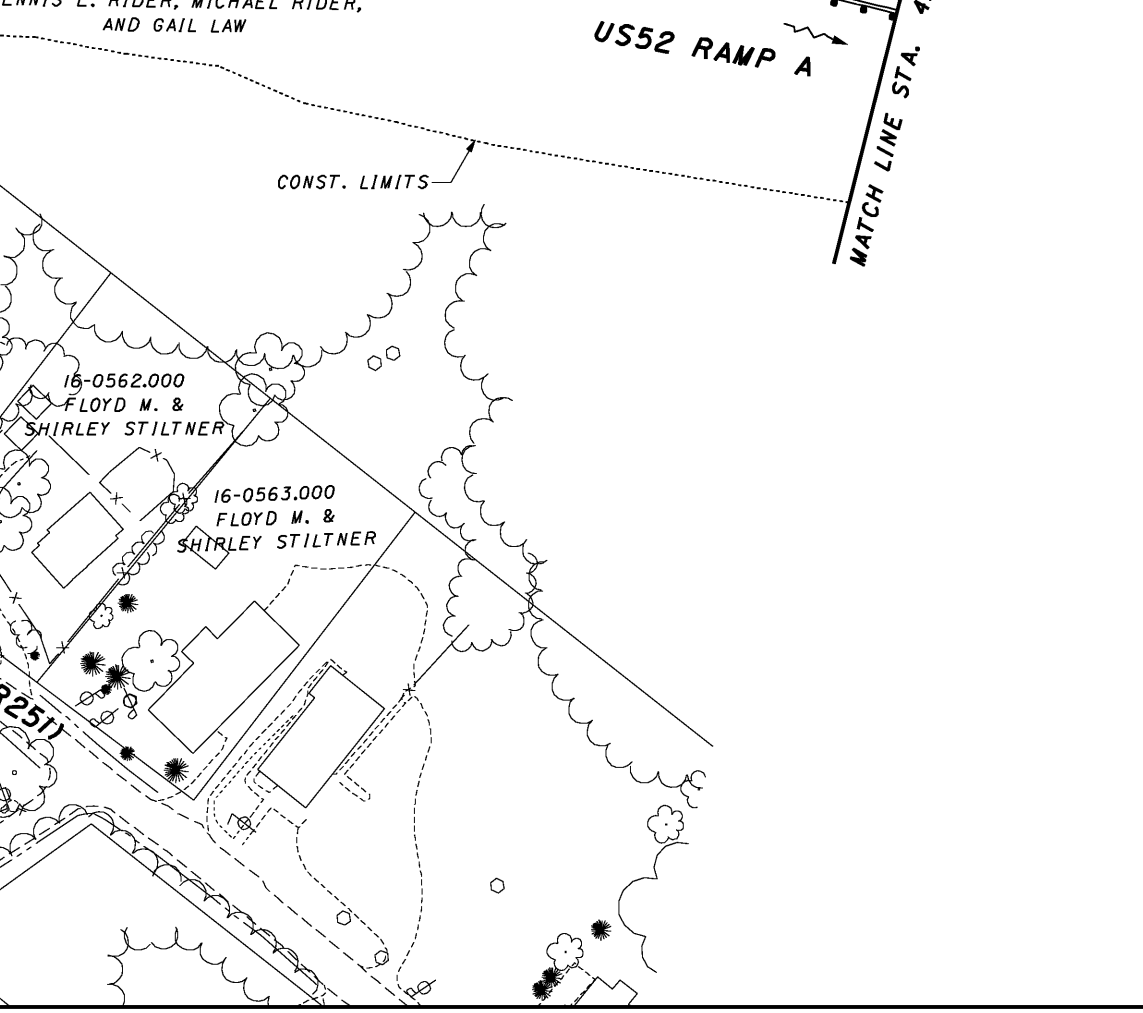
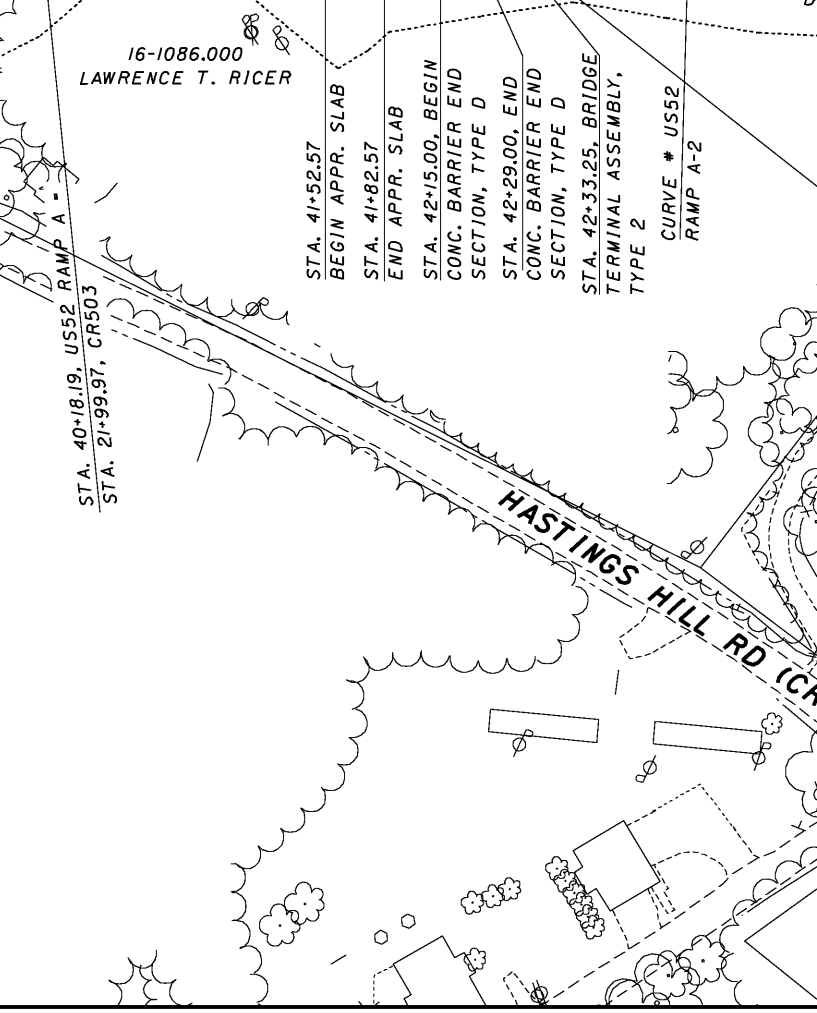
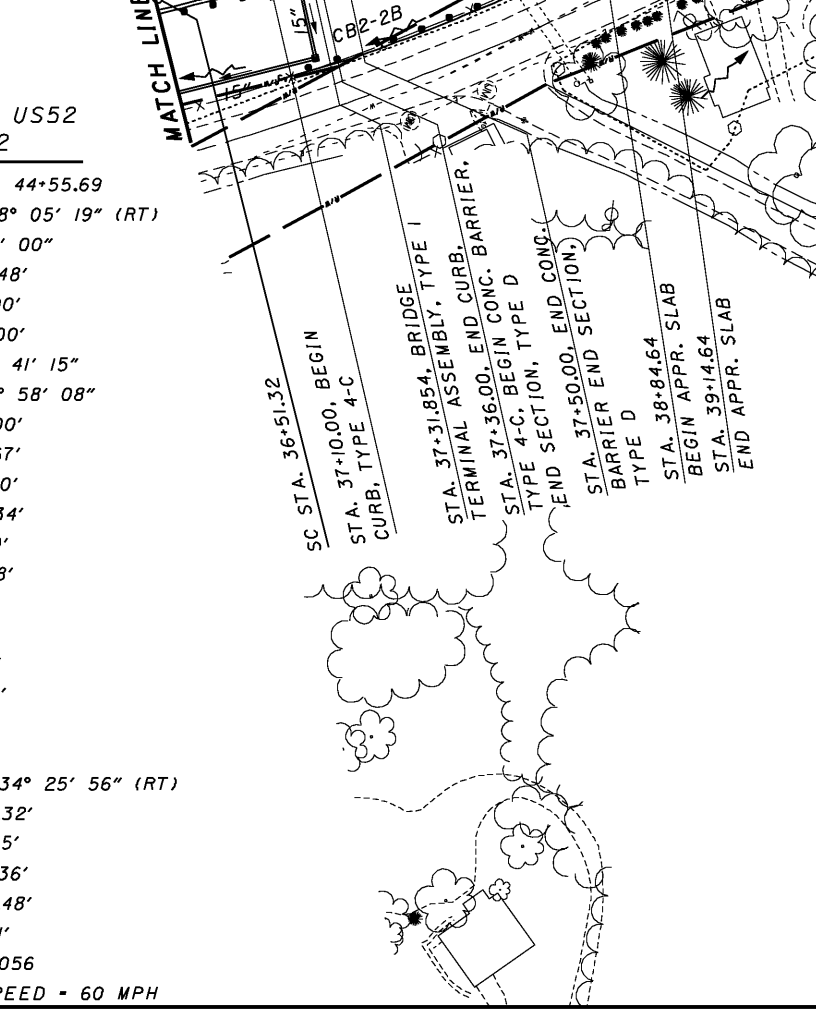
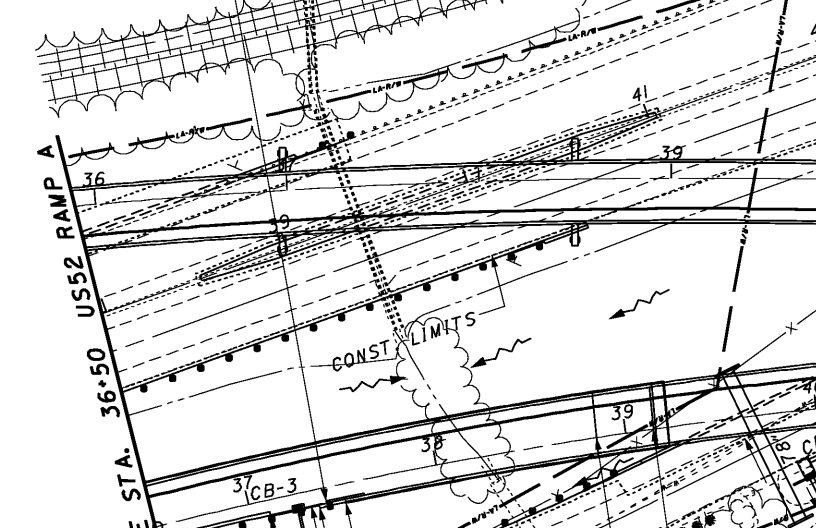
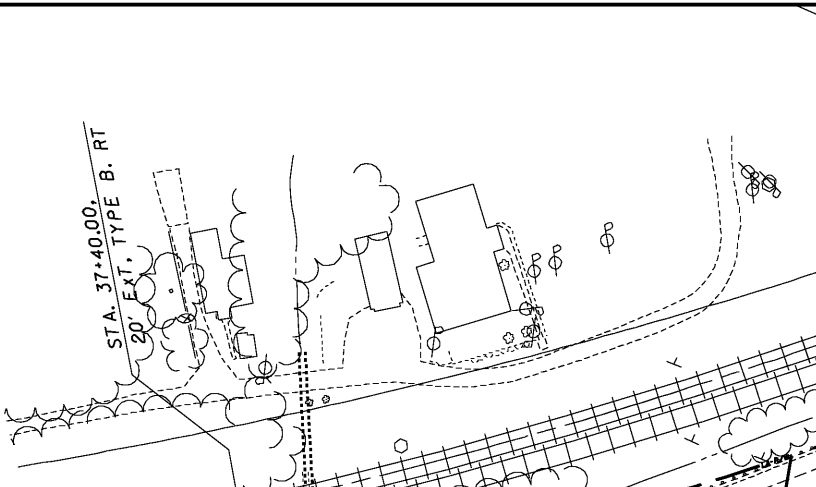
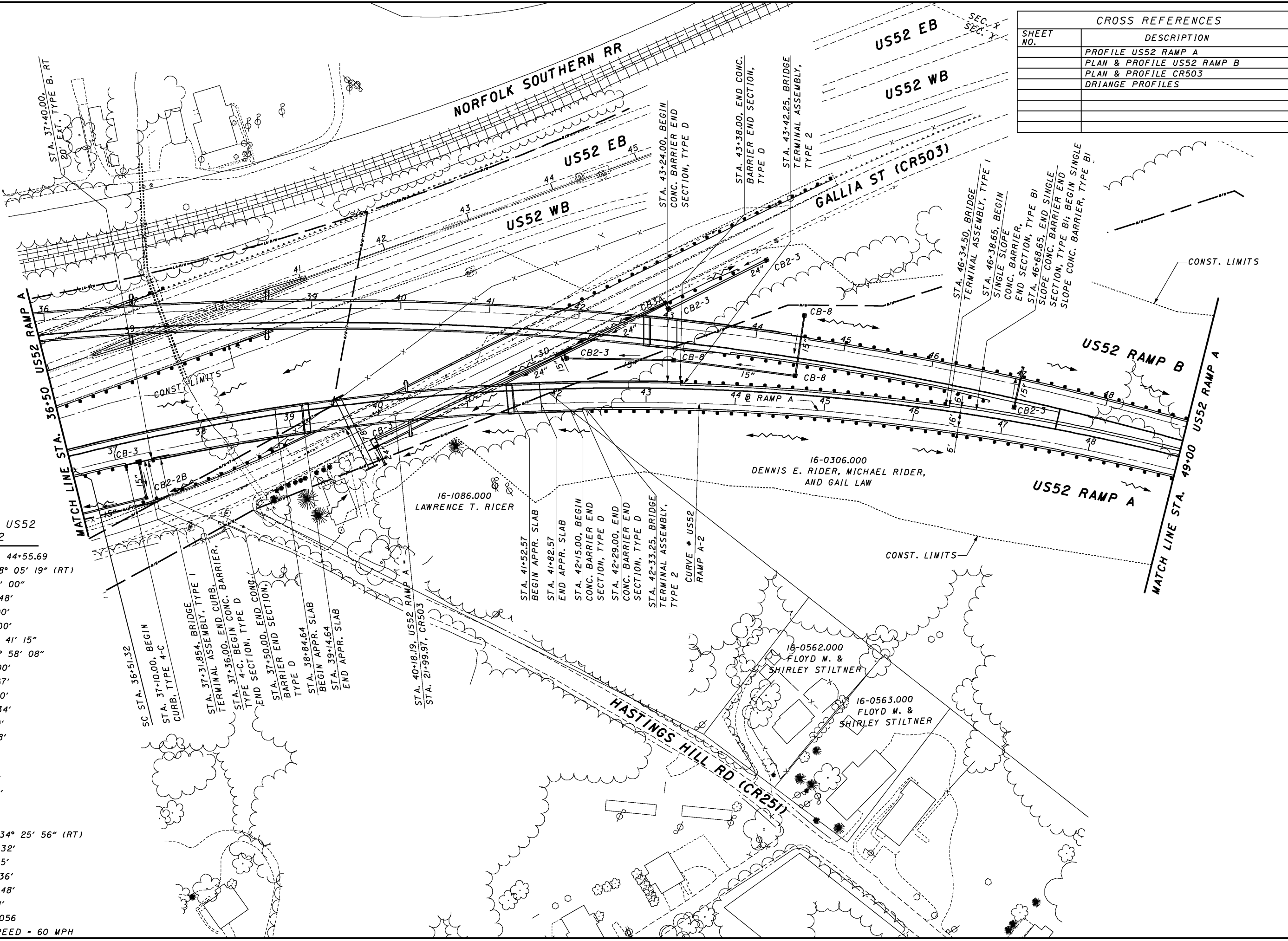
**CURVE # US52 RAMP A-2**  
 P.I. STA. = 44+55.69  
 DELTA = 38° 05' 19" (RT)  
 Dc = 2° 15' 00"  
 R = 2,546.48'  
 Ls1 = 150.00'  
 Ls2 = 175.00'  
 Theta1 = 1° 41' 15"  
 Theta2 = 1° 58' 08"  
 LT1 = 100.00'  
 LT2 = 116.67'  
 ST1 = 50.00'  
 ST2 = 58.34'  
 x1 = 149.99'  
 x2 = 174.98'  
 y1 = 1.47'  
 y2 = 2.00'  
 k1 = 75.00'  
 k2 = 87.50'  
 p1 = 0.37'  
 p2 = 0.50'  
 DELTAc = 34° 25' 56" (RT)  
 Lc = 1,530.32'  
 Tc = 789.05'  
 Tsl = 954.36'  
 Ts2 = 966.48'  
 Es = 147.91'  
 Emax. = 0.056  
 DESIGN SPEED = 60 MPH

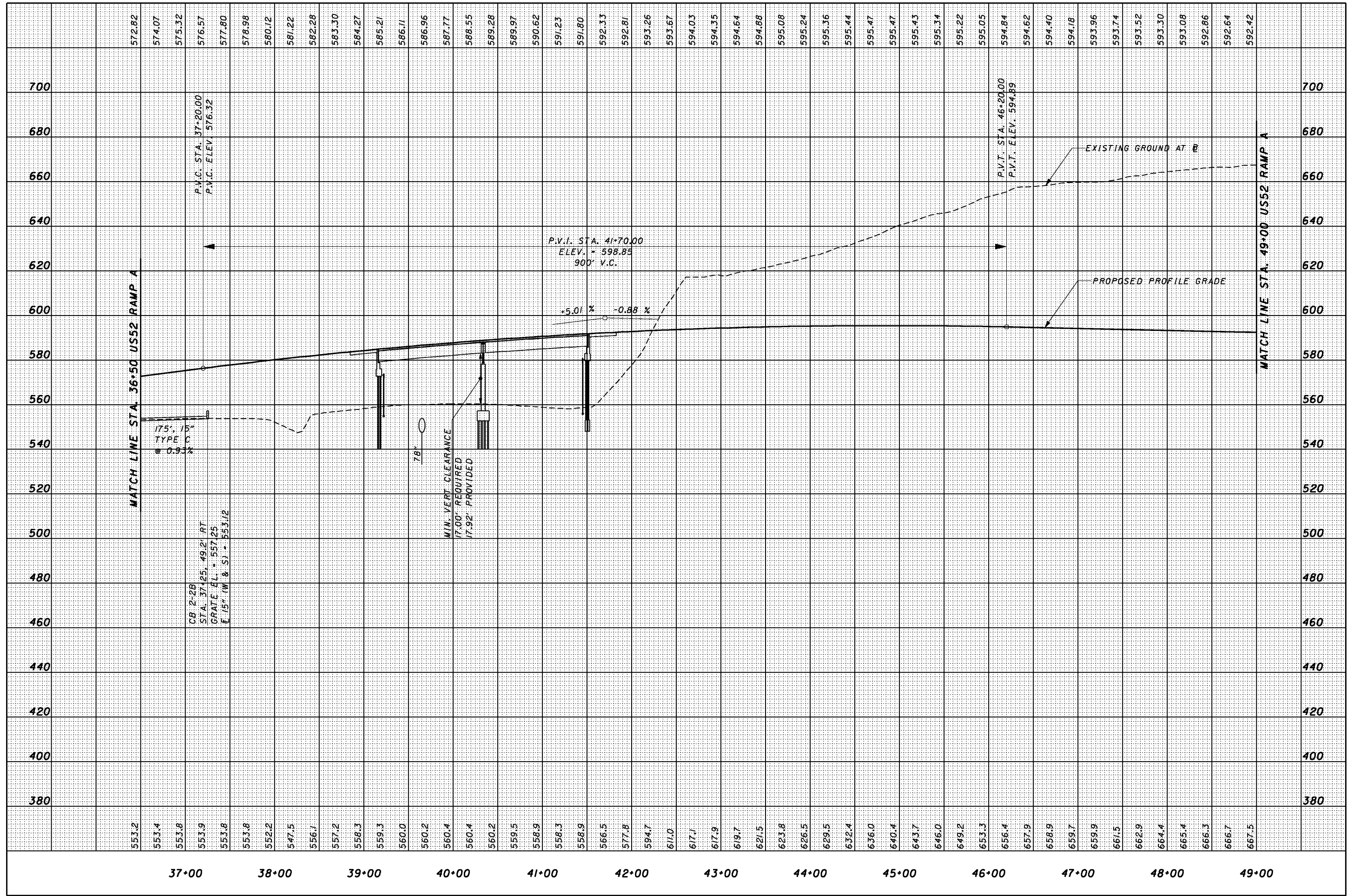
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US52 RAMP A
	PLAN & PROFILE US52 RAMP B
	PLAN & PROFILE CR503
	DRANGE PROFILES



PLAN - US52 RAMP A  
 STA. 36+50.00 TO STA. 49+00.00

SCI-823-0.00





CALCULATED  
MT  
CHECKED  
RN

**PROFILE - US52 RAMP A**  
**STA. 36+50.00 TO STA. 49+00.00**

**SCI-823-0.00**

**CURVE # US52 RAMP A-2**  
 P.I. STA. = 44+55.69  
 DELTA = 38° 05' 19" (RT)  
 Dc = 2° 15' 00"  
 R = 2,546.48'  
 Ls1 = 150.00'  
 Ls2 = 175.00'  
 Theta1 = 1° 41' 15"  
 Theta2 = 1° 58' 08"  
 LT1 = 100.00'  
 LT2 = 116.67'  
 ST1 = 50.00'  
 ST2 = 58.34'  
 x1 = 149.99'  
 x2 = 174.98'  
 y1 = 1.47'  
 y2 = 2.00'  
 k1 = 75.00'  
 k2 = 87.50'

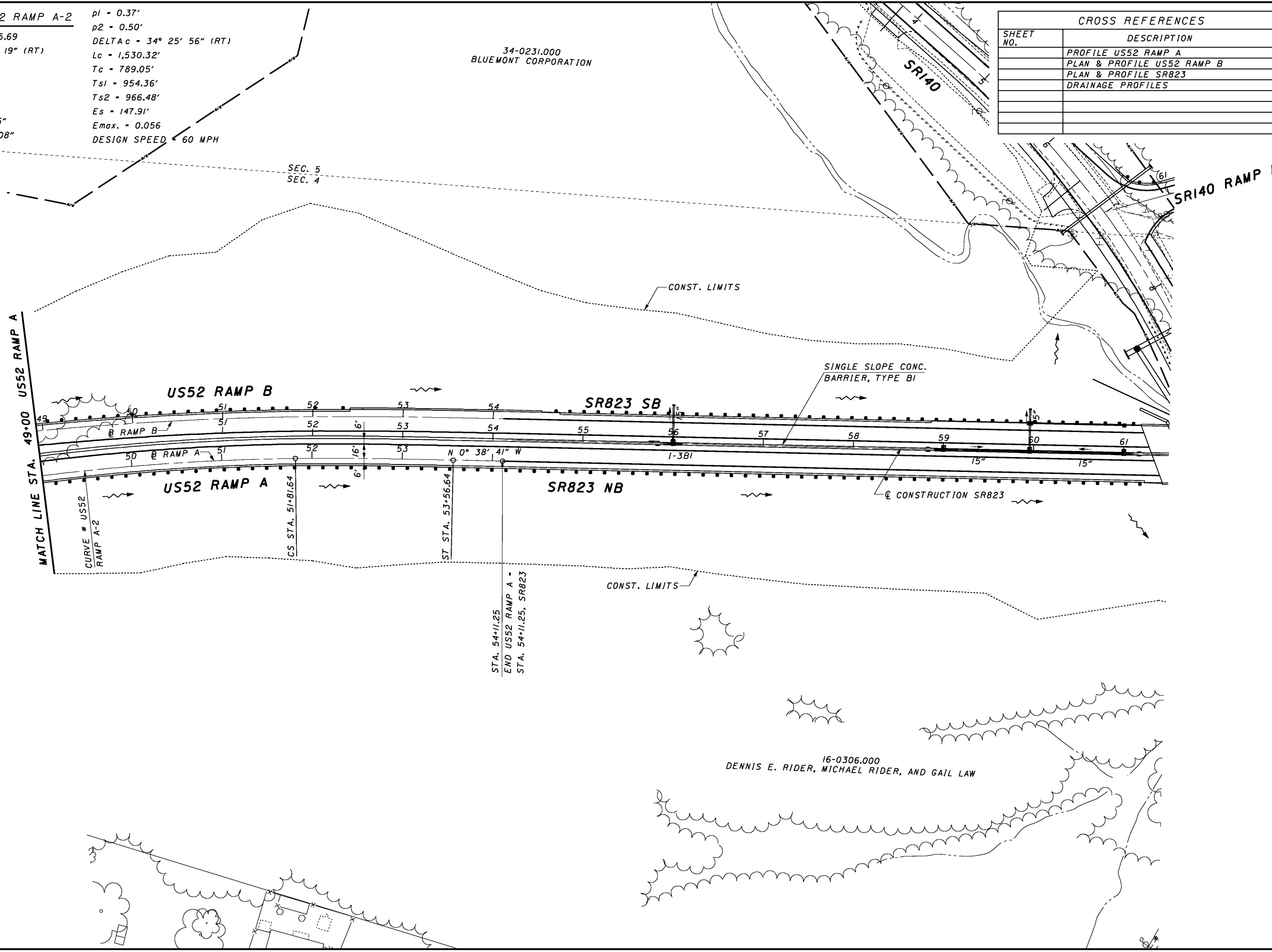
$p1 = 0.37'$   
 $p2 = 0.50'$   
 DELTAc = 34° 25' 56" (RT)  
 $Lc = 1,530.32'$   
 $Tc = 789.05'$   
 $Ts1 = 954.36'$   
 $Ts2 = 966.48'$   
 $Es = 147.91'$   
 $E_{max} = 0.056$   
 DESIGN SPEED = 60 MPH

34-0231.000  
 BLUEMONT CORPORATION

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US52 RAMP A
	PLAN & PROFILE US52 RAMP B
	PLAN & PROFILE SR823
	DRAINAGE PROFILES

CALCULATED: MT  
 CHECKED: RW

0 25 50 100  
 HORIZONTAL SCALE IN FEET



STA. 54+11.25  
 END US52 RAMP A -  
 STA. 54+11.25, SR823

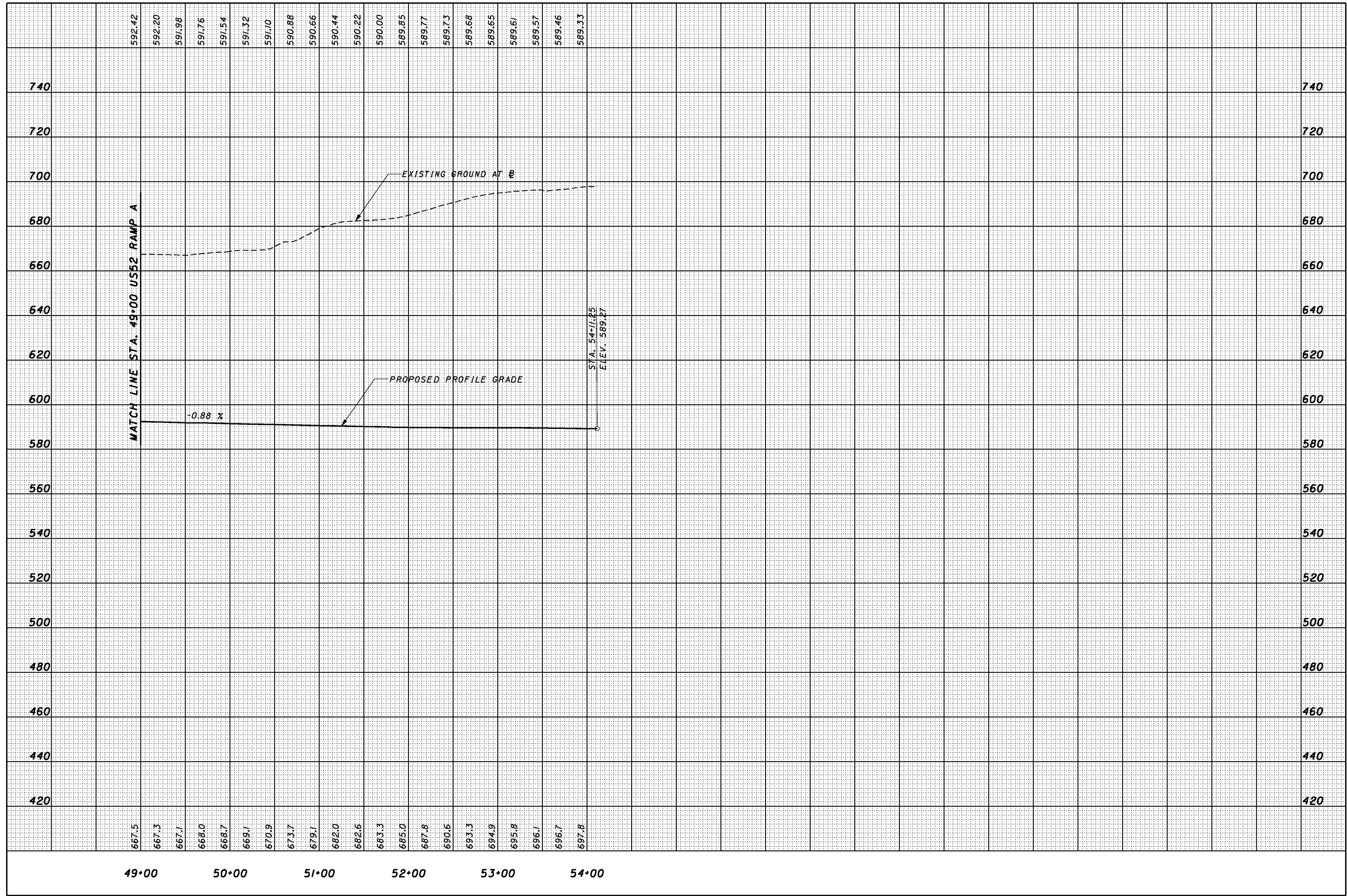
16-0306.000  
 DENNIS E. RIDER, MICHAEL RIDER, AND GAIL LAW

1/30/2008 1:30:33 PM g:\co03\0064\road\phase\_3\77366pp03\_52r-amp.a.sht

PLAN - US52 RAMP A  
 STA. 49+00.00 TO STA. 54+11.25

SCI-823-0.00

98



CALCULATED  
MT  
CHECKED  
RN

**PROFILE - US52 RAMP A**  
**STA. 49+00.00 TO STA. 54+11.25**

**SCI-823-0.00**



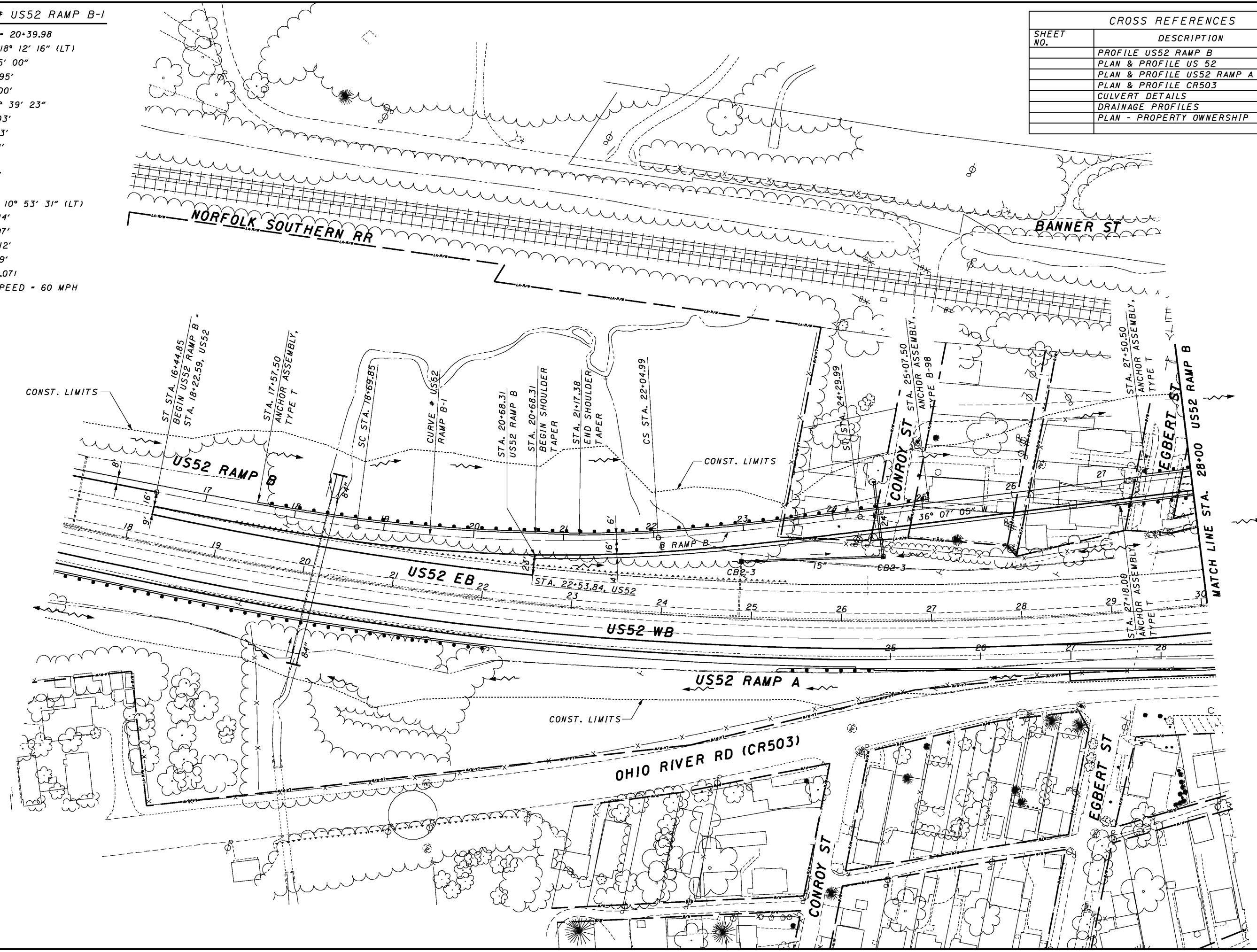
**CURVE # US52 RAMP B-1**

P.I. STA. = 20+39.98  
 DELTA = 18° 12' 16" (LT)  
 Dc = 3° 15' 00"  
 R = 1,762.95'  
 Ls = 225.00'  
 Theta = 3° 39' 23"  
 LT = 150.03'  
 ST = 75.03'  
 x = 224.91'  
 y = 4.78'  
 k = 112.48'  
 p = 1.20'  
 DELTA<sub>c</sub> = 10° 53' 31" (LT)  
 Lc = 335.14'  
 Tc = 168.07'  
 Ts = 395.12'  
 Es = 23.69'  
 E<sub>max</sub> = 0.071  
 DESIGN SPEED = 60 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US52 RAMP B
	PLAN & PROFILE US 52
	PLAN & PROFILE US52 RAMP A
	PLAN & PROFILE CR503
	CULVERT DETAILS
	DRAINAGE PROFILES
	PLAN - PROPERTY OWNERSHIP

0 25 50 100  
 HORIZONTAL SCALE IN FEET

CALCULATED MT  
 CHECKED RW

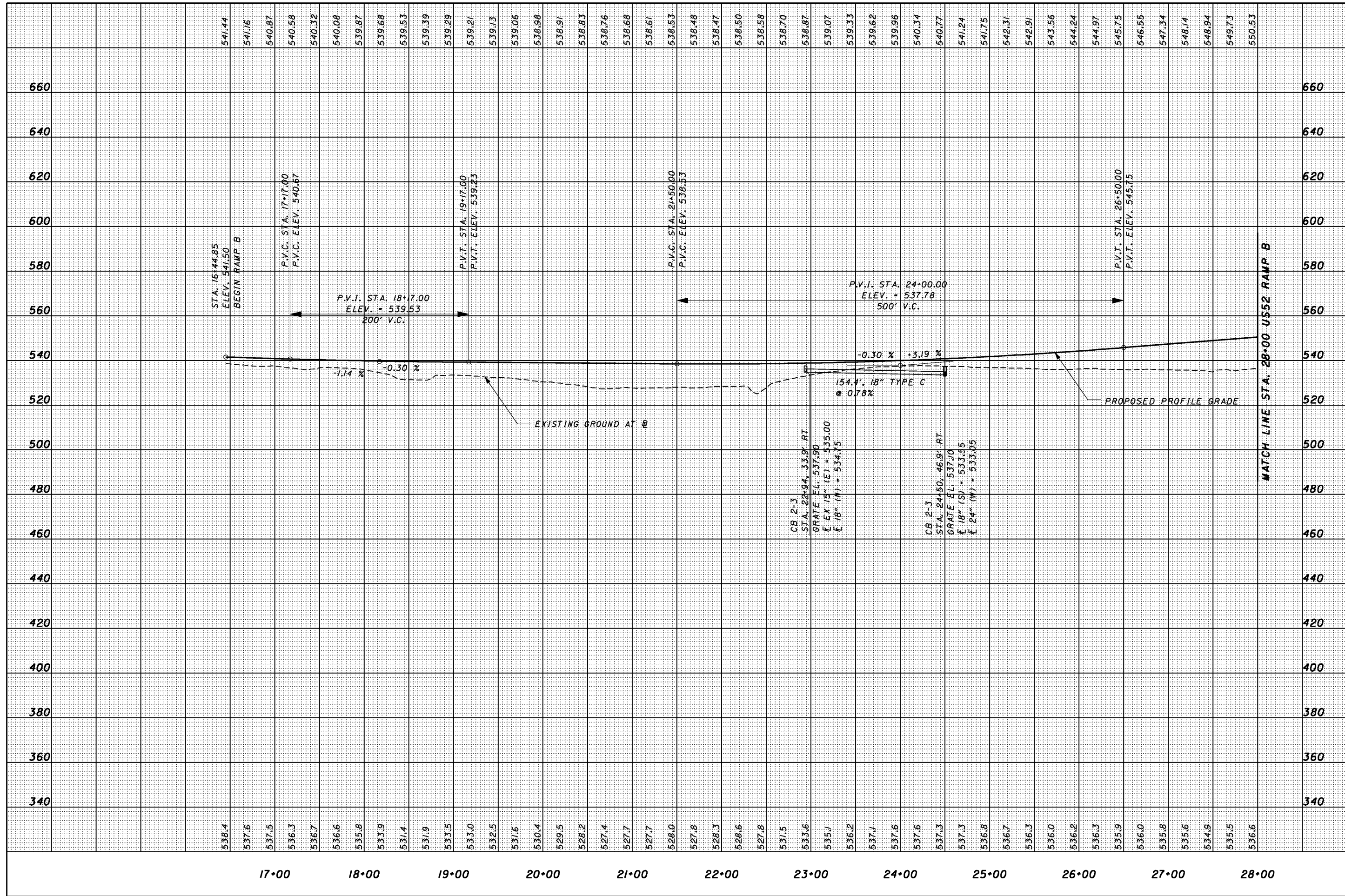


**PLAN - US52 RAMP B**  
**STA. 16+44.85 TO STA. 28+00.00**

**SCI-823-0.00**

100

1/30/2008 11:30:43 PM g:\co03\0064\road\phase\_3\17366p01\_52r-ampb.sht

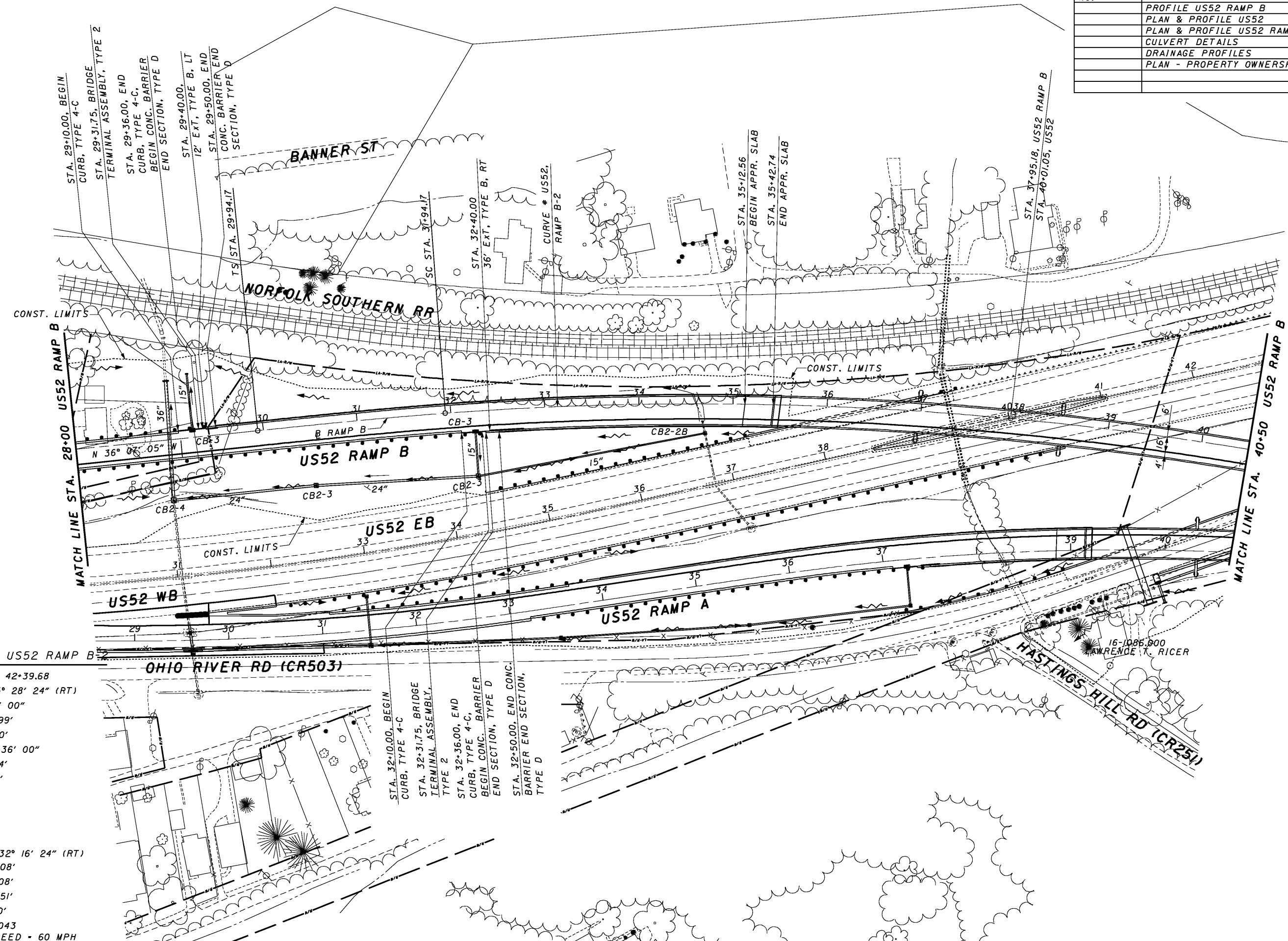


CALCULATED  
MT  
CHECKED  
RN

**PROFILE - US52 RAMP B**  
**STA. 16+44.85 TO STA. 28+00.00**

**SCI-823-0.00**

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US52 RAMP B
	PLAN & PROFILE US52
	PLAN & PROFILE US52 RAMP A
	CULVERT DETAILS
	DRAINAGE PROFILES
	PLAN - PROPERTY OWNERSHIP

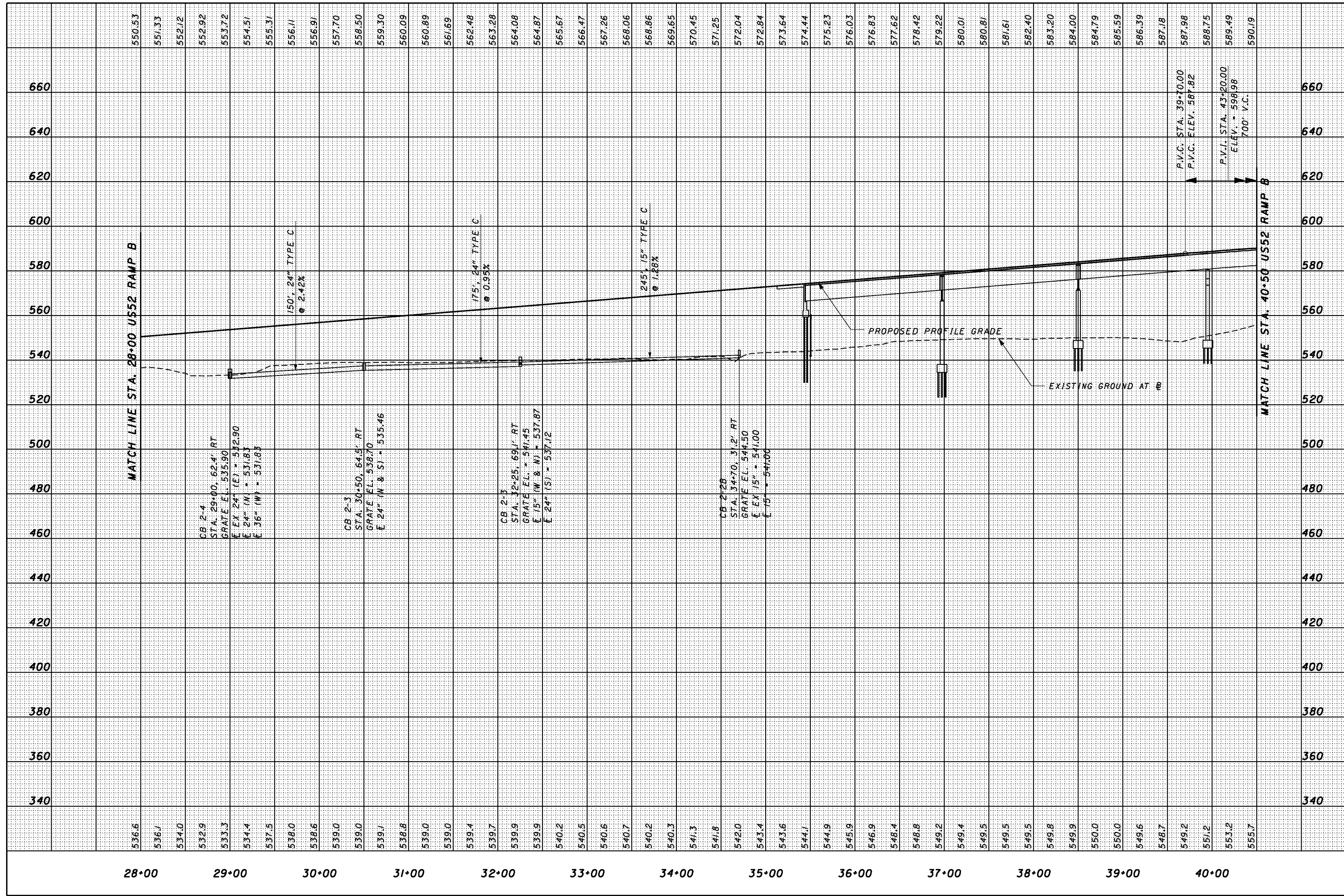


1/30/2008 1:49 PM g:\co03\0064\road\phase\_3\71366pp02\_52r\_ambb.sht

**CURVE # US52 RAMP B-2**  
 P.I. STA. - 42+39.68  
 DELTA - 35° 28' 24" (RT)  
 Dc - 1° 36' 00"  
 R - 3,580.99'  
 Ls - 200.00'  
 Theta - 1° 36' 00"  
 LT - 133.34'  
 ST - 66.67'  
 x - 199.98'  
 y - 1.86'  
 k - 100.00'  
 p - 0.47'  
 DELTA<sub>c</sub> - 32° 16' 24" (RT)  
 Tc - 1,036.08'  
 Lc - 2,017.08'  
 Ts - 1,245.51'  
 Es - 179.20'  
 Emax. - 0.043  
 DESIGN SPEED - 60 MPH

PLAN - US52 RAMP B  
 STA. 28+00.00 TO STA. 40+50.00

SCI-823-0.00



CALCULATED  
MT  
CHECKED  
RN

**PROFILE - US52 RAMP B**  
**STA. 28+00.00 TO STA. 40+50.00**

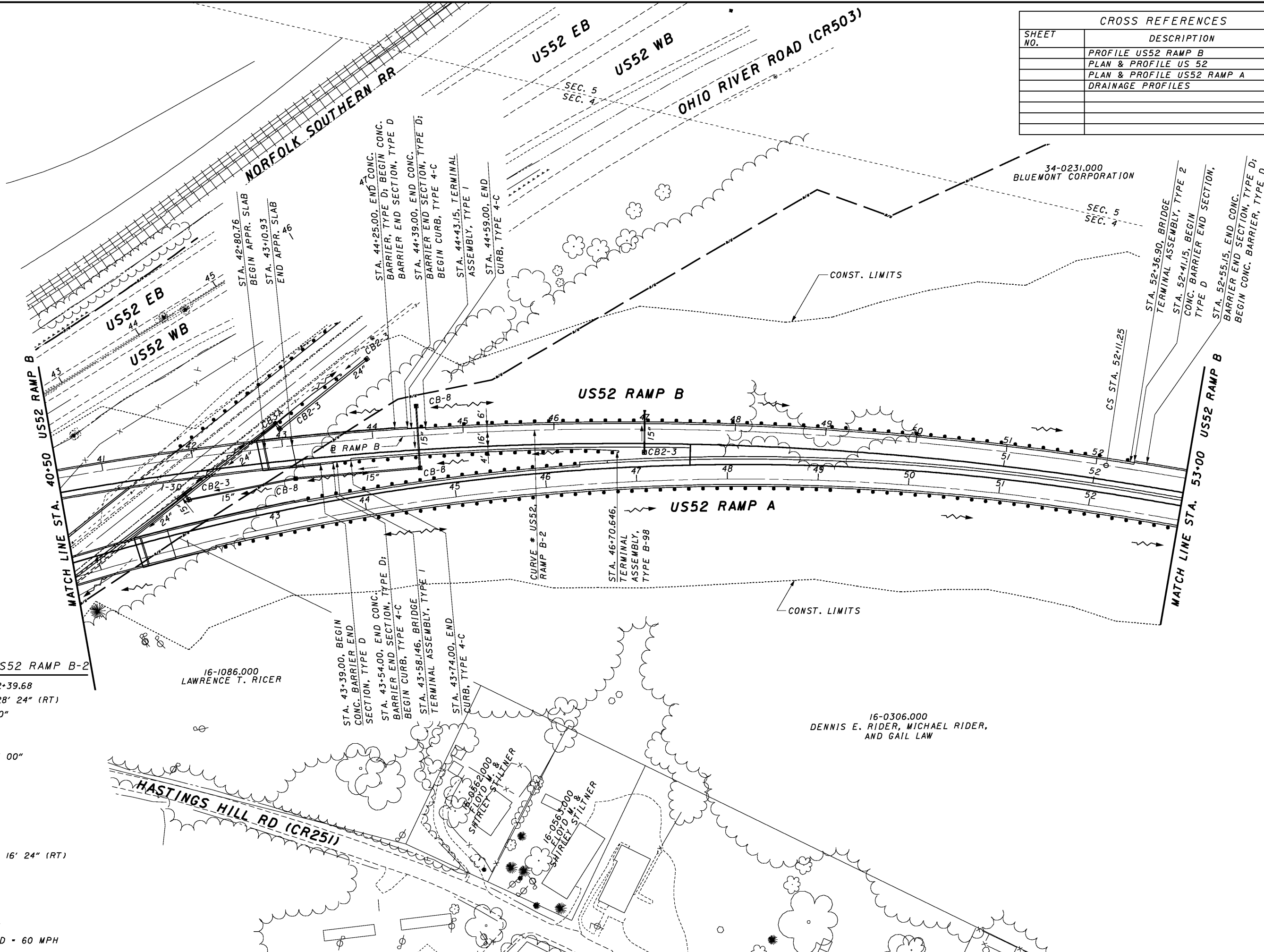
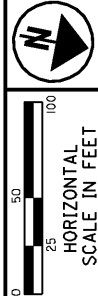
**SCI-823-0.00**



1/30/2008 11:30:00 PM g:\co03\0064\road\phase\_3\171366p03.52r-ampb.sht

**CURVE # US52 RAMP B-2**  
 P.I. STA. = 42+39.68  
 DELTA = 35° 28' 24" (RT)  
 Dc = 1° 36' 00"  
 R = 3,580.99'  
 Ls = 200.00'  
 Theta = 1° 36' 00"  
 LT = 133.34'  
 ST = 66.67'  
 x = 199.98'  
 y = 1.86'  
 k = 100.00'  
 p = 0.47'  
 DELTAc = 32° 16' 24" (RT)  
 Tc = 1,036.08'  
 Lc = 2,017.08'  
 Ts = 1,245.51'  
 Es = 179.20'  
 Emax = 0.043  
 DESIGN SPEED = 60 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US52 RAMP B
	PLAN & PROFILE US 52
	PLAN & PROFILE US52 RAMP A
	DRAINAGE PROFILES

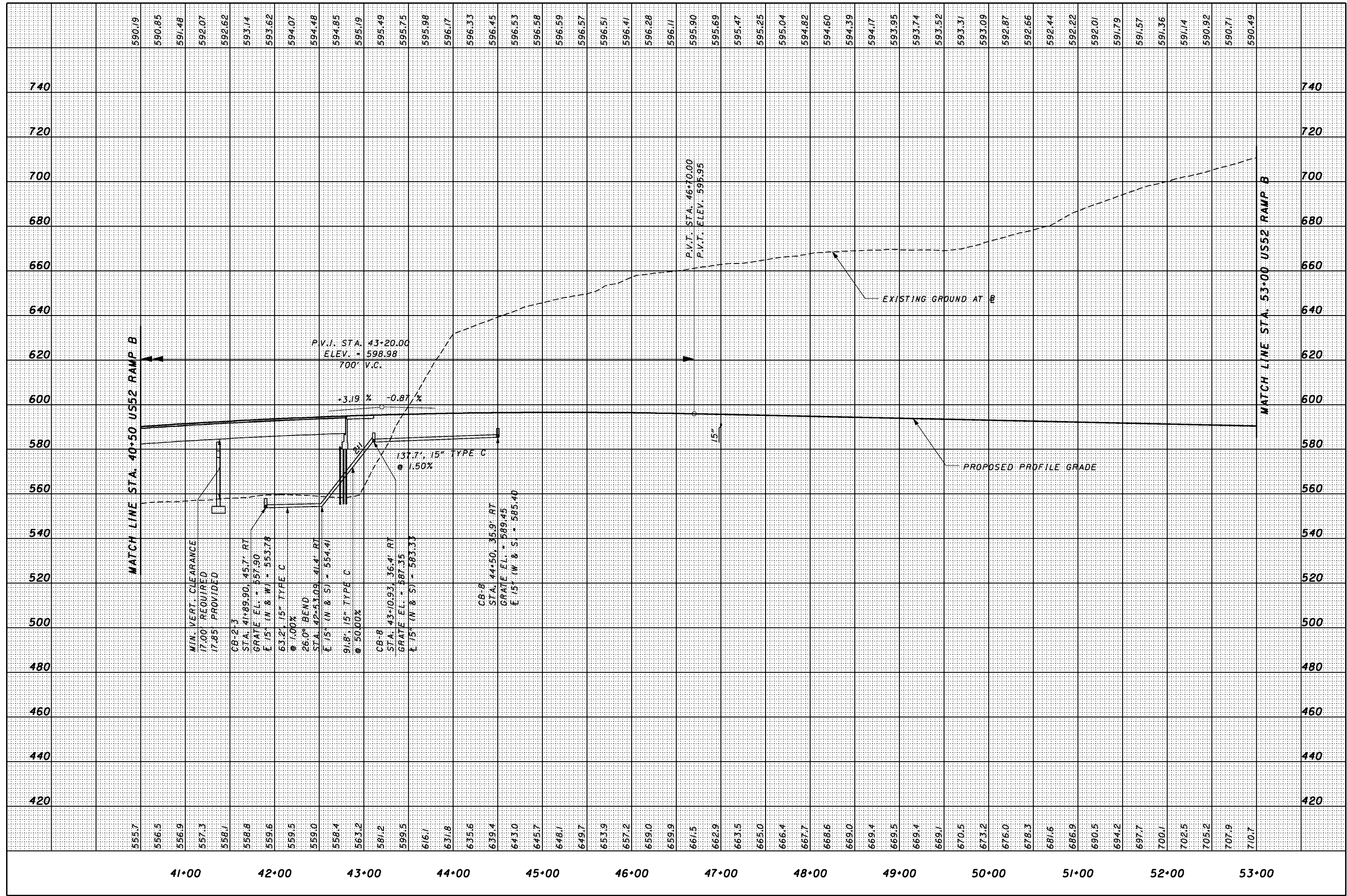


CALCULATED MT  
 CHECKED RW

**PLAN - US52 RAMP B**  
**STA. 40+50.00 TO STA. 53+00.00**

**SCI-823-0.00**

1/30/2008 3:17:36 PM g:\co03\0064\Road\phase\_3\17366of03\_52r\_cmbp.sht

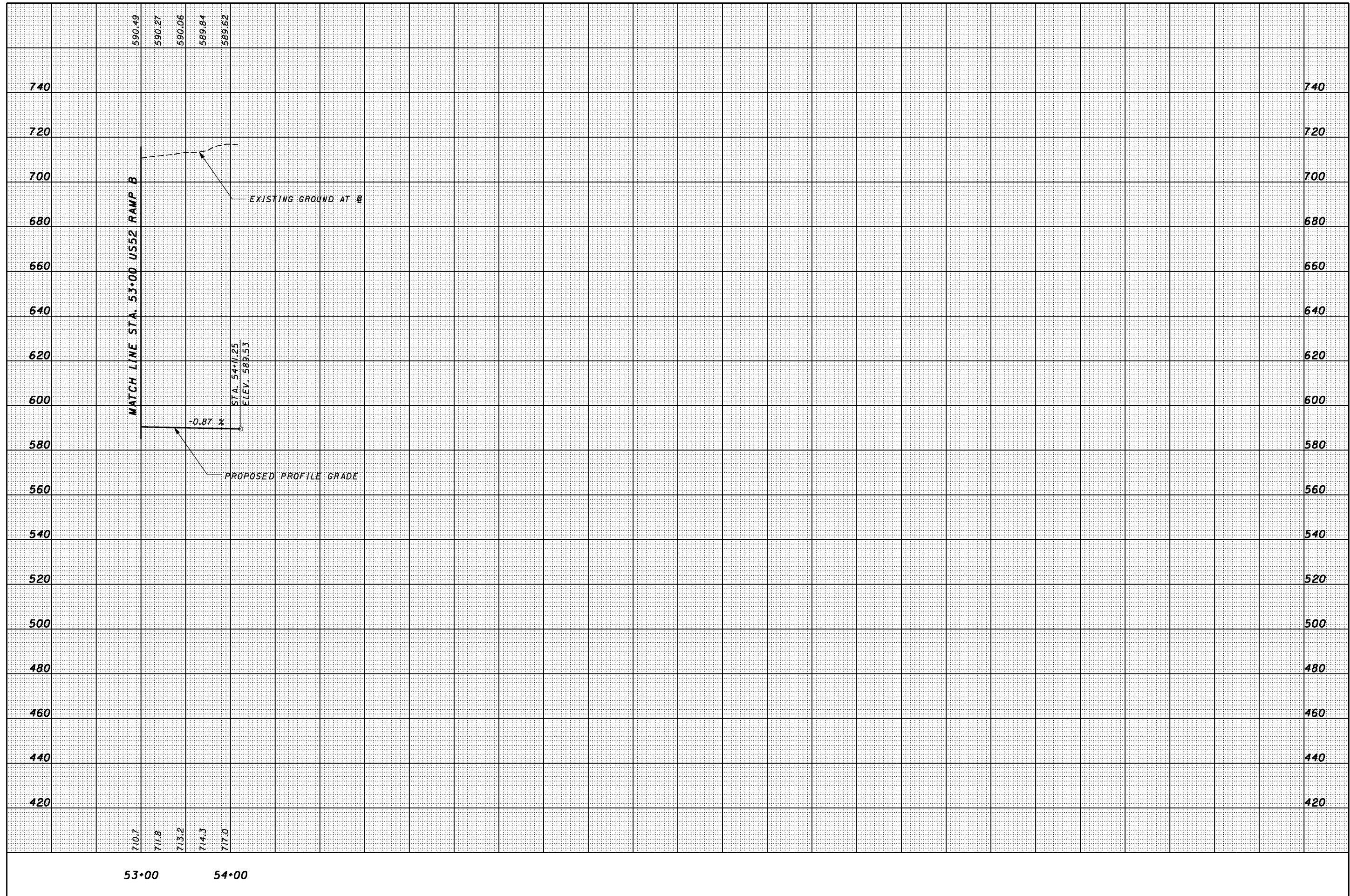


CALCULATED  
 MT  
 CHECKED  
 RN

**PROFILE - US52 RAMP B**  
**STA. 40+50.00 TO STA. 53+00.00**

**SCI-823-0.00**





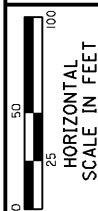
53+00      54+00

CALCULATED  
MT  
CHECKED  
RN

PROFILE - US52 RAMP B  
STA. 53+00.00 TO STA. 54+11.25

SCI-823-0.00



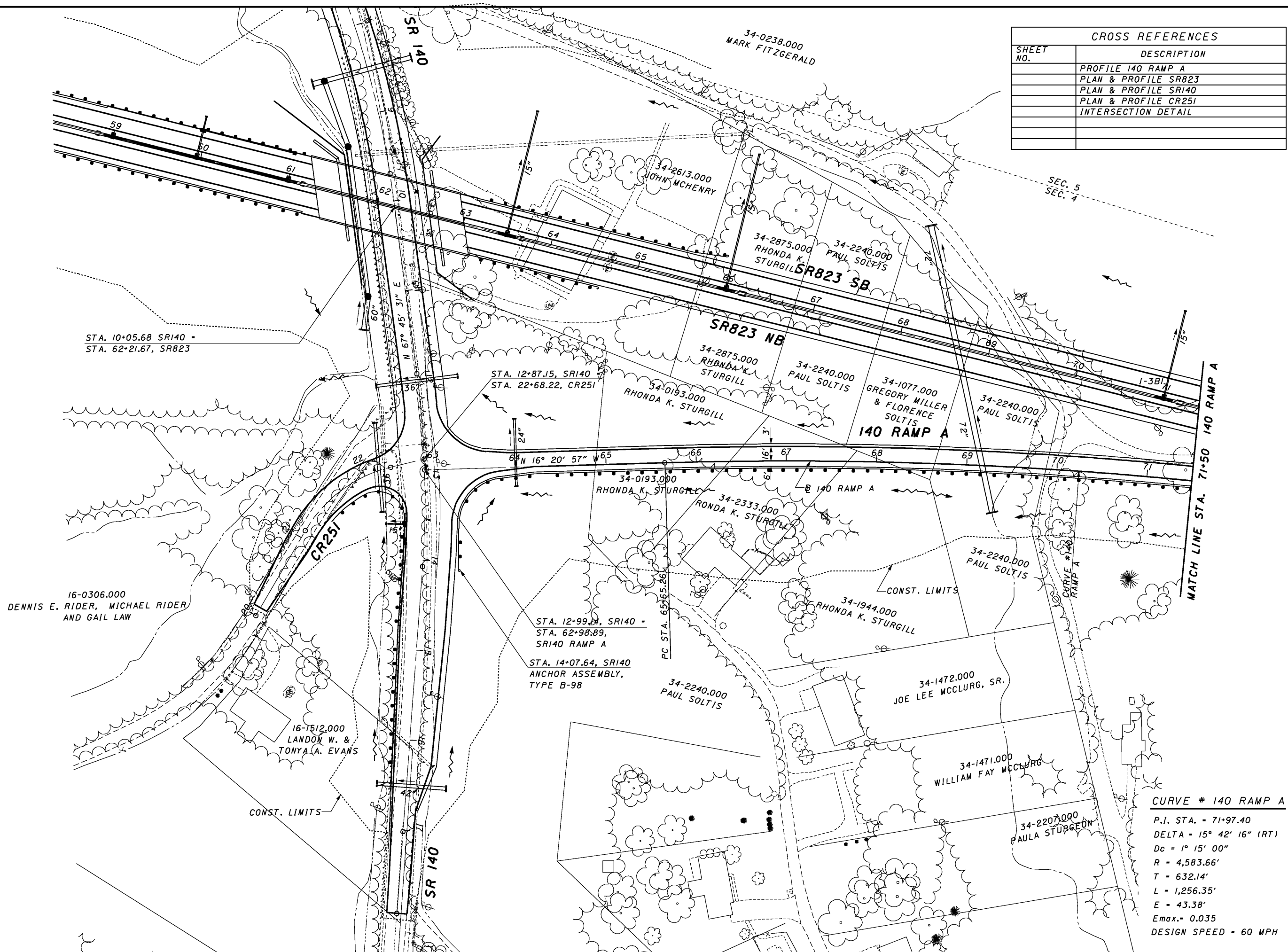


CALCULATED DL  
CHECKED RW

PLAN - SR140 INTERCHANGE, RAMP A  
STA. 62+98.89 TO STA. 71+50.00

SCI-823-0.00

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE 140 RAMP A
	PLAN & PROFILE SR823
	PLAN & PROFILE SR140
	PLAN & PROFILE CR251
	INTERSECTION DETAIL



STA. 10+05.68 SR140 =  
STA. 62+21.67, SR823

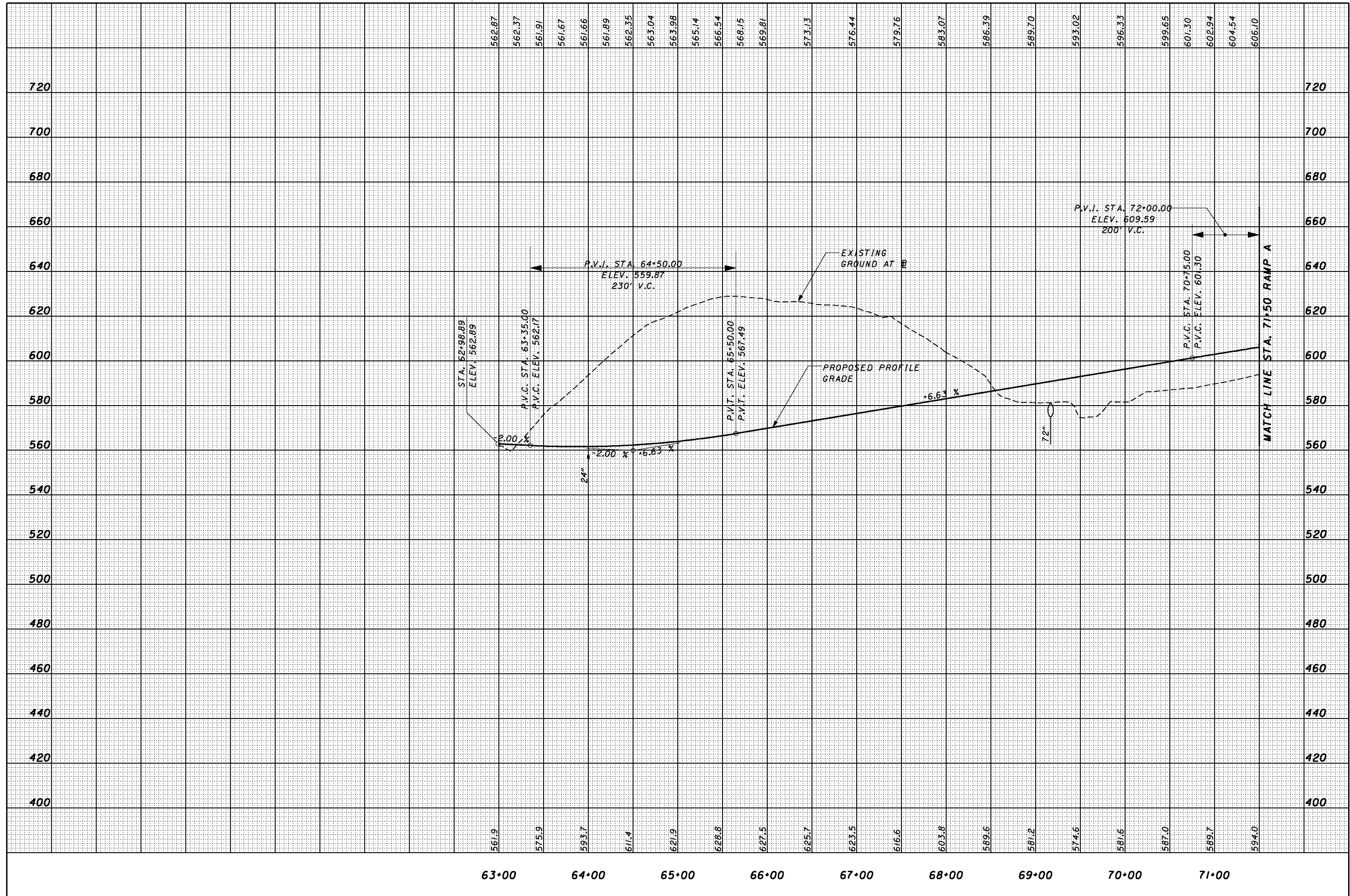
STA. 12+87.15, SR140  
STA. 22+68.22, CR251

STA. 12+99.14, SR140 =  
STA. 62+98.89,  
SR140 RAMP A

STA. 14+07.64, SR140  
ANCHOR ASSEMBLY,  
TYPE B-98

**CURVE # 140 RAMP A**  
 P.I. STA. = 71+97.40  
 DELTA = 15° 42' 16" (RT)  
 Dc = 1° 15' 00"  
 R = 4,583.66'  
 T = 632.14'  
 L = 1,256.35'  
 E = 43.38'  
 Emax. = 0.035  
 DESIGN SPEED = 60 MPH

1/30/2008 11:30:26 AM G:\C003\0064\Road\PHASE\_3\1713656p01\_140r-amp-a.sht

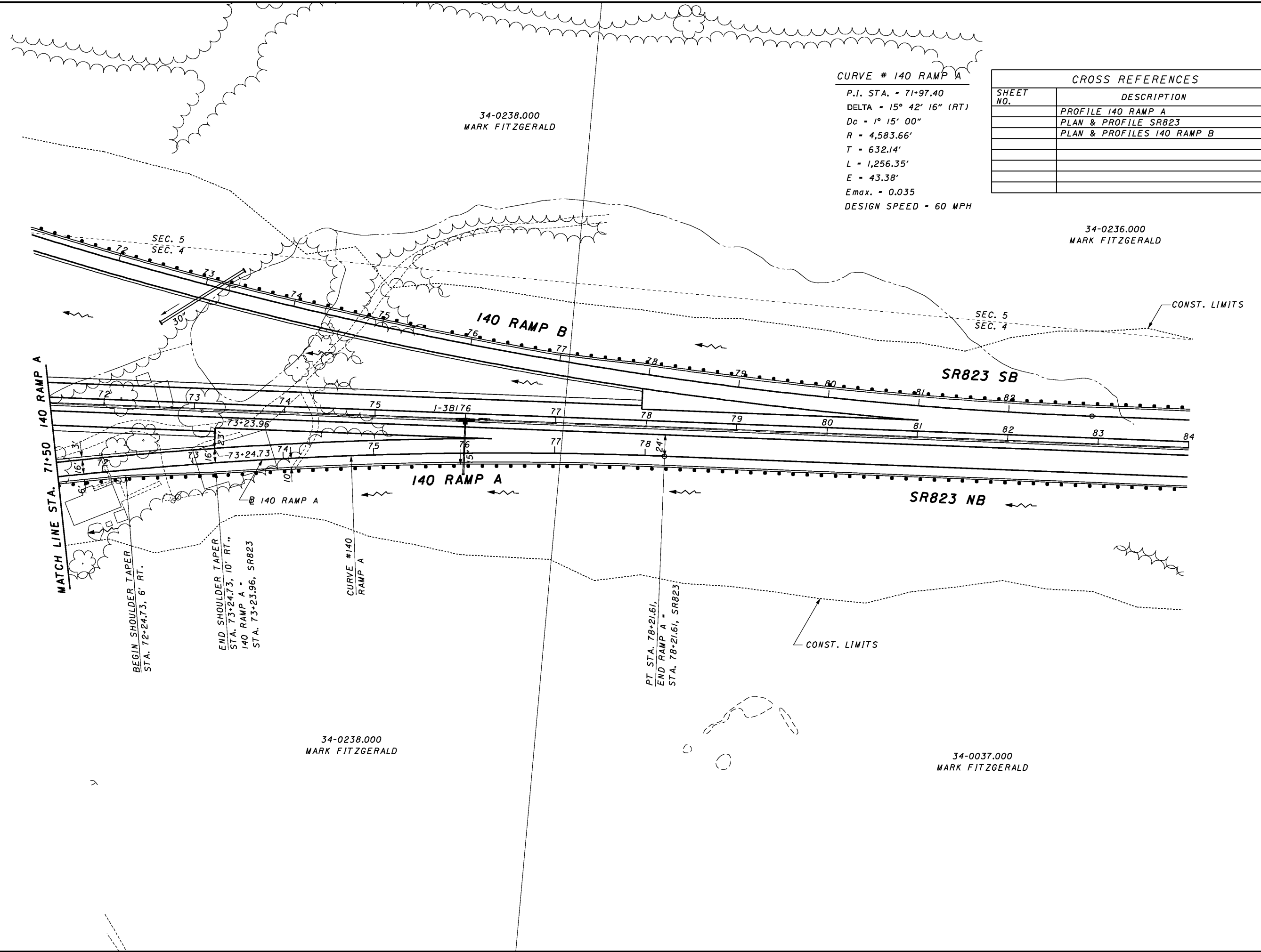


CALCULATED  
JFA  
CHECKED  
RN

**PROFILE - SR 140 INTERCHANGE, RAMP A**  
**STA. 62+98.89 TO STA. 71+50.00**

**SCI-823-0.00**

1/30/2008 11:36:36 AM G:\C003\0064\Road\PHASE\_3\1713656p02\_140r-mpa.sht



**CURVE # 140 RAMP A**  
 P.I. STA. = 71+97.40  
 DELTA = 15° 42' 16" (RT)  
 Dc = 1° 15' 00"  
 R = 4,583.66'  
 T = 632.14'  
 L = 1,256.35'  
 E = 43.38'  
 Emax. = 0.035  
 DESIGN SPEED = 60 MPH

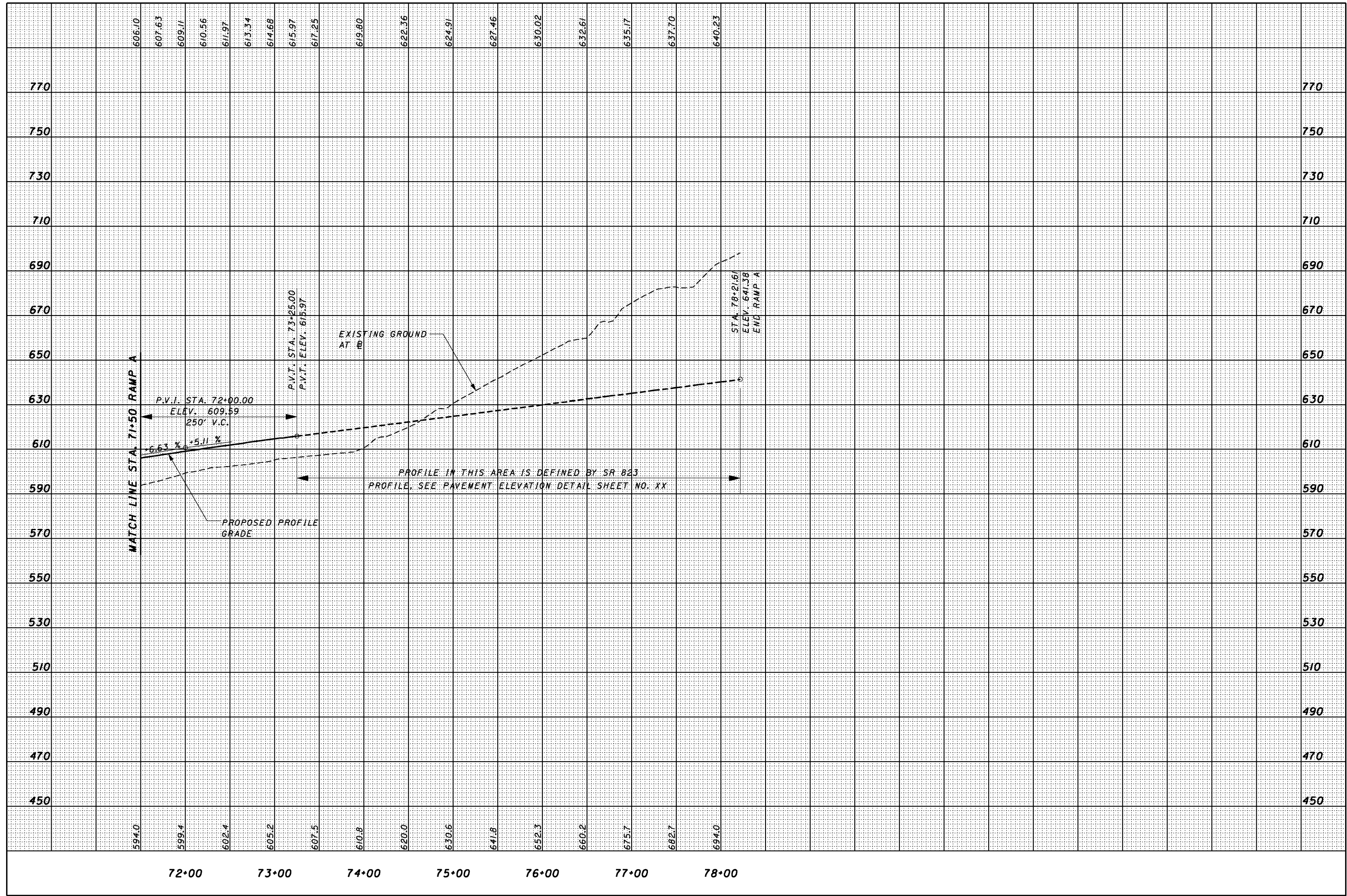
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE 140 RAMP A
	PLAN & PROFILE SR823
	PLAN & PROFILES 140 RAMP B

  
  
 HORIZONTAL SCALE IN FEET  
 CALCULATED BY **DL**  
 CHECKED BY **RW**

**PLAN - SR140 INTERCHANGE, RAMP A**  
**STA. 71+50.00 TO STA. 78+21.61**

**SCI-823-0.00**

1/30/2008 8:52:37 AM G:\C003\0064\Road\PHASE\_3\171366\F02\_140r\_ampa.sht



MATCH LINE STA. 71+50 RAMP A

P.V.I. STA. 72+00.00  
ELEV. 609.59  
250' V.C.

P.V.T. STA. 73+25.00  
P.V.T. ELEV. 615.97

EXISTING GROUND  
AT @

PROFILE IN THIS AREA IS DEFINED BY SR 823  
PROFILE, SEE PAVEMENT ELEVATION DETAIL SHEET NO. XX

PROPOSED PROFILE  
GRADE

STA. 78+21.61  
ELEV. 641.38  
END RAMP A

CALCULATED  
JFA  
CHECKED  
RN

PROFILE - SR 140 INTERCHANGE, RAMP A  
STA. 71+50.00 TO STA. 78+21.61

SCI-823-0.00

III



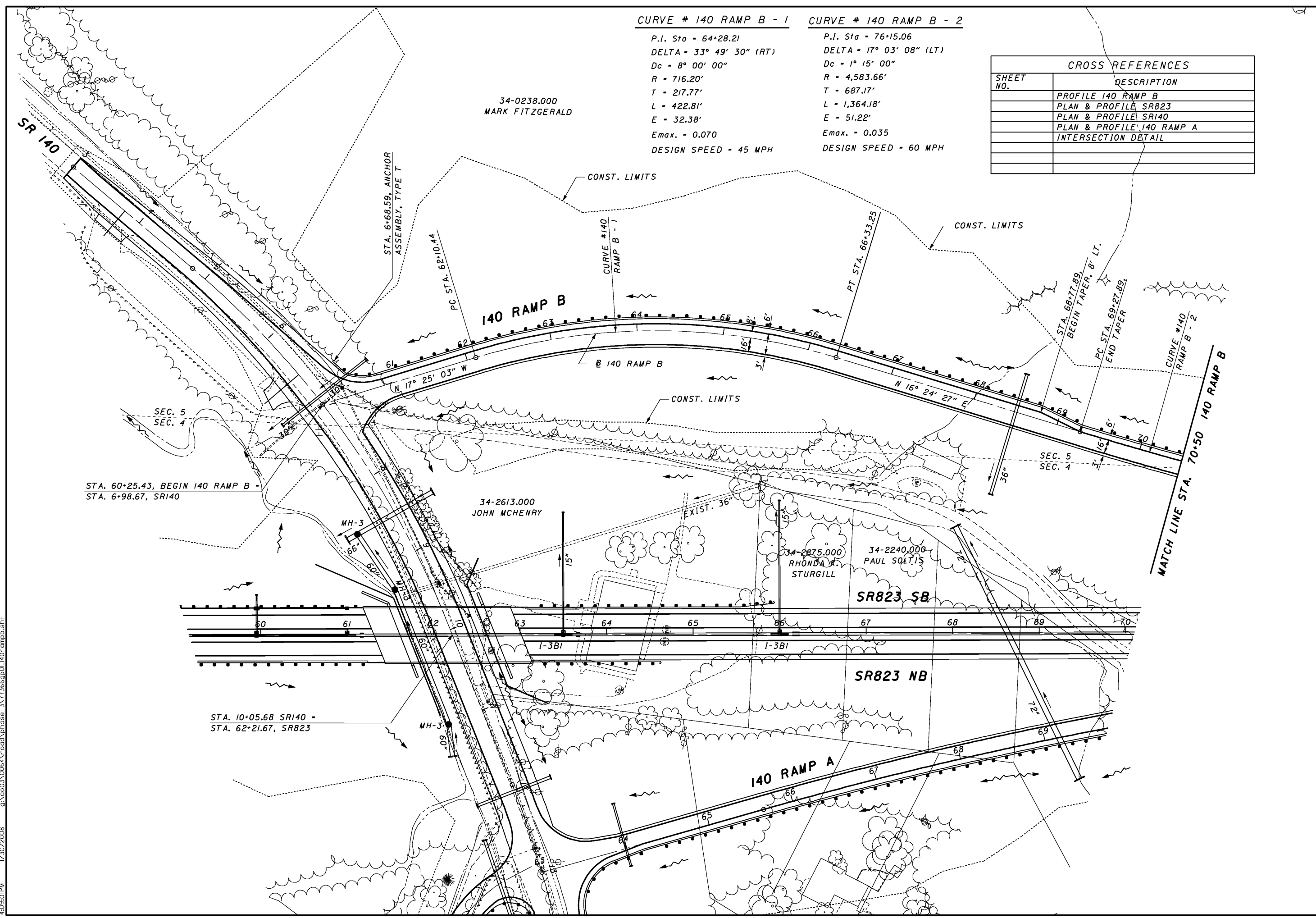
CALCULATED DL  
CHECKED RW

0 25 50 100  
HORIZONTAL SCALE IN FEET

**CURVE # 140 RAMP B - 1**  
 P.I. Sta = 64+28.21  
 DELTA = 33° 49' 30" (RT)  
 Dc = 8° 00' 00"  
 R = 716.20'  
 T = 217.77'  
 L = 422.81'  
 E = 32.38'  
 Emax. = 0.070  
 DESIGN SPEED = 45 MPH

**CURVE # 140 RAMP B - 2**  
 P.I. Sta = 76+15.06  
 DELTA = 17° 03' 08" (LT)  
 Dc = 1° 15' 00"  
 R = 4,583.66'  
 T = 687.17'  
 L = 1,364.18'  
 E = 51.22'  
 Emax. = 0.035  
 DESIGN SPEED = 60 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE 140 RAMP B
	PLAN & PROFILE SR823
	PLAN & PROFILE SR140
	PLAN & PROFILE 140 RAMP A
	INTERSECTION DETAIL

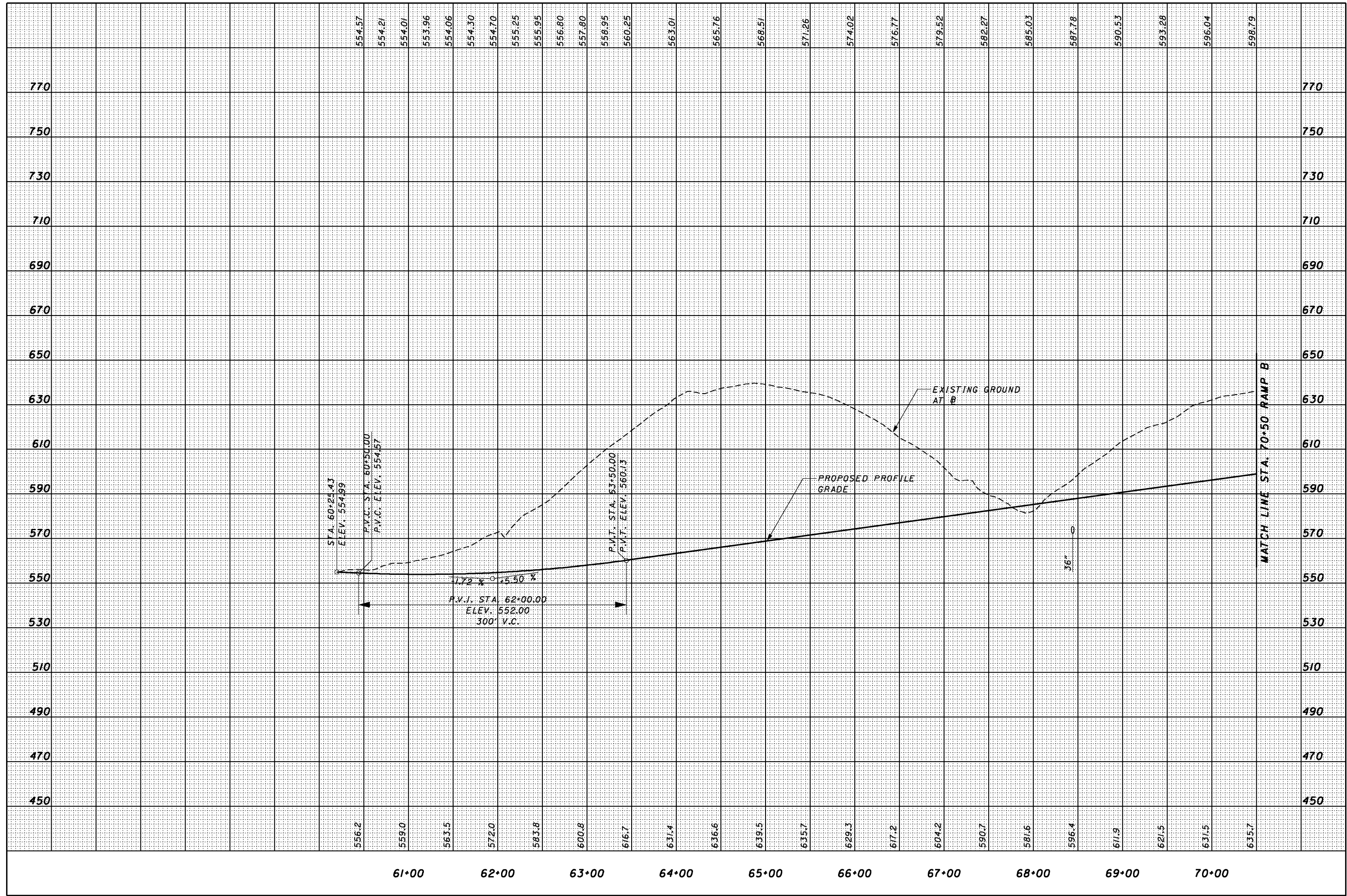


PLAN - SR140 INTERCHANGE, RAMP B  
 STA. 60+25.43 TO STA. 70+50.00

SCI-823-0.00

1/30/2008 2:09:01 PM g:\c03\0064\road\phase\_3\7366pp01\40r-ampb.sht





CALCULATED  
JFA  
CHECKED  
RN

**PROFILE - SR 140 INTERCHANGE, RAMP B**  
**STA. 60+25.43 TO STA. 70+50.00**

**SCI-823-0.00**

1/30/2008 1:20:10 PM g:\co03\0064\road\phase\_3\71366pp02\_140rampb.sht

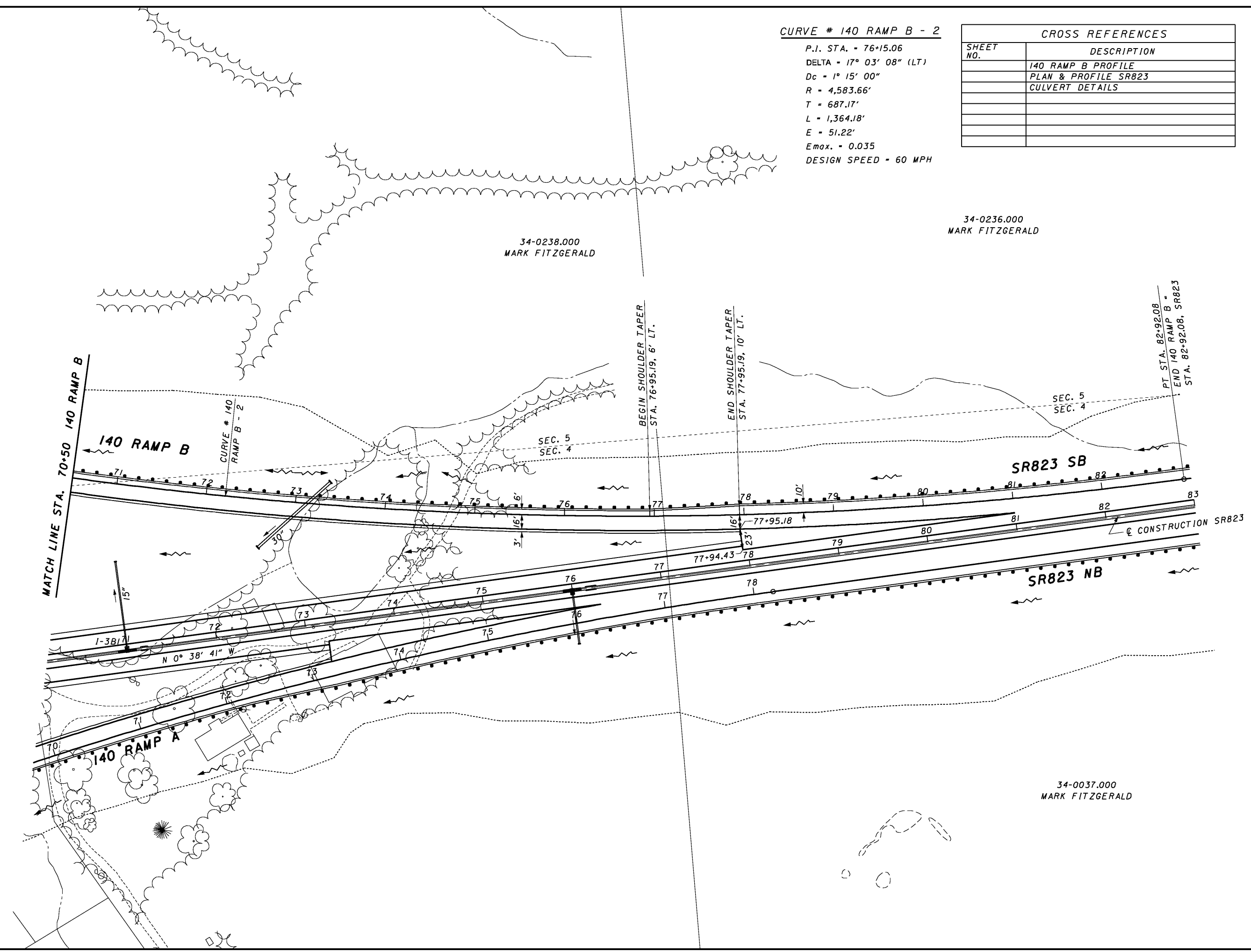
**CURVE # 140 RAMP B - 2**

P.I. STA. = 76+15.06  
 DELTA = 17° 03' 08" (LT)  
 Dc = 1° 15' 00"  
 R = 4,583.66'  
 T = 687.17'  
 L = 1,364.18'  
 E = 51.22'  
 Emax. = 0.035  
 DESIGN SPEED = 60 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	140 RAMP B PROFILE
	PLAN & PROFILE SR823
	CULVERT DETAILS

CALCULATED  
 DL  
 CHECKED  
 RW

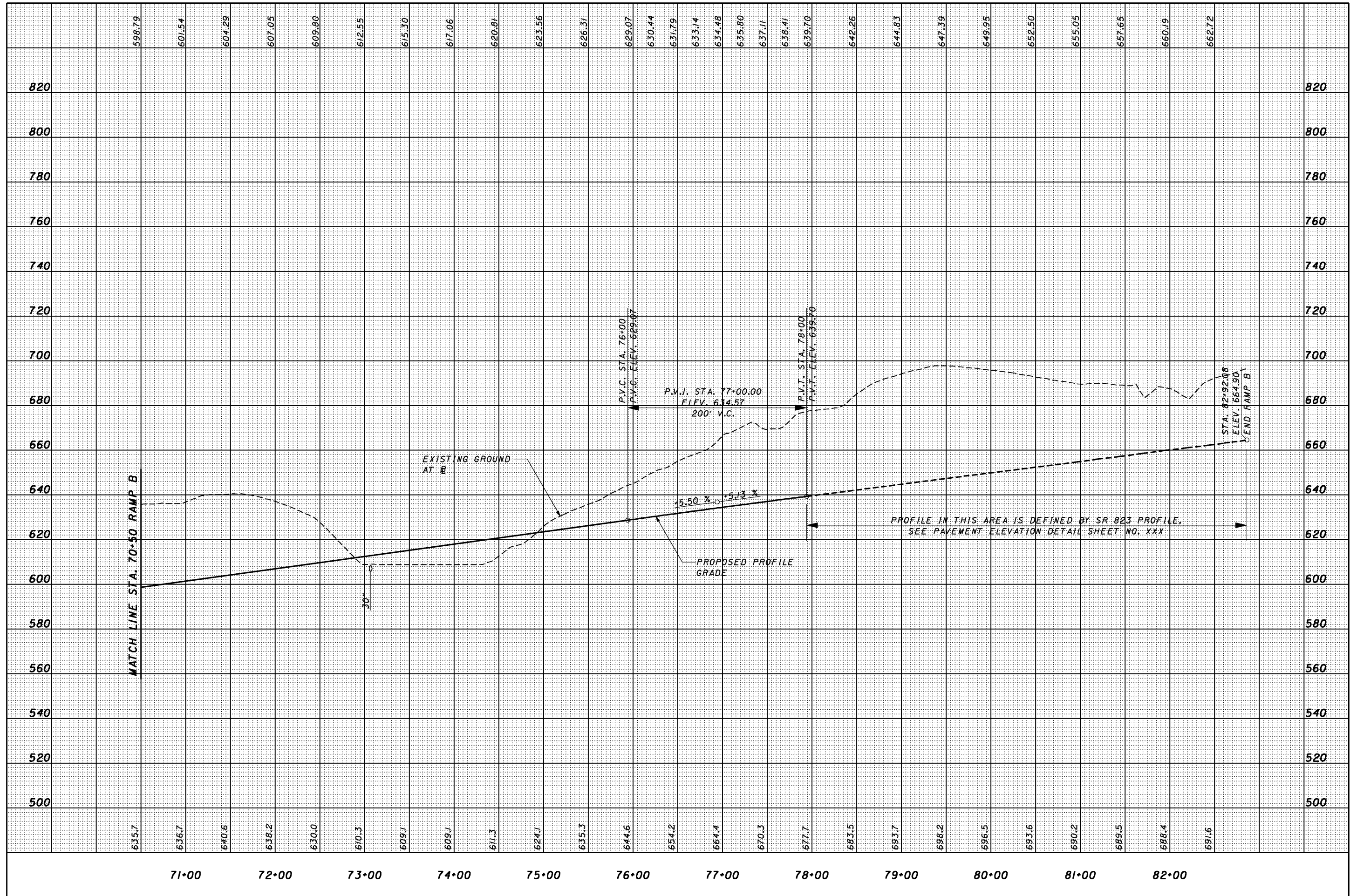
0 50 100  
 HORIZONTAL  
 SCALE IN FEET



**PLAN - SR140 INTERCHANGE, RAMP B**  
**STA. 70+50.00 TO STA. 82+92.08**

**SCI-823-0.00**





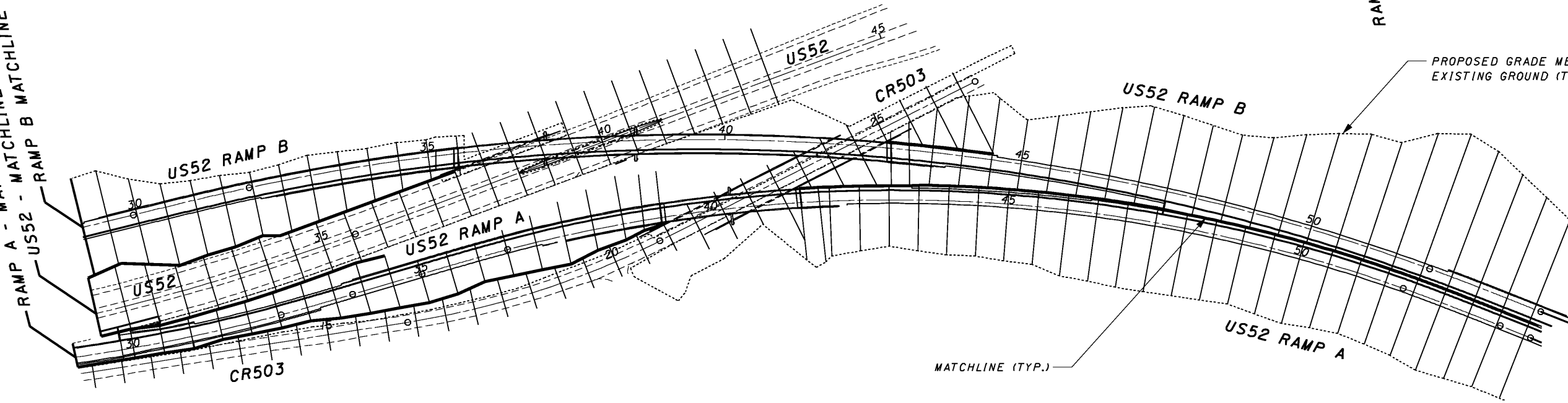
CALCULATED  
JFA  
CHECKED  
RN

**PROFILE - SR 140 INTERCHANGE, RAMP B**  
STA. 70+50.00 TO STA. 82+92.08

SCI-823-0.00

2:10:55 PM 1/30/2008 G:\C003\0064\Road\PHASE\_3\17366\101\SH

RAMP A - MATCHLINE STA. 29+00  
US52 - MATCHLINE STA. 31+00  
RAMP B MATCHLINE - STA. 29+00



PROPOSED GRADE MEETS EXISTING GROUND (TYP.)

MATCHLINE (TYP.)

RAMP A - MATCHLINE STA. 29+00  
US52 - MATCHLINE STA. 31+00  
RAMP B MATCHLINE - STA. 29+00

PROPOSED GRADE MEETS EXISTING GROUND (TYP.)

MATCHLINE (TYP.)

**NOTES:**

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

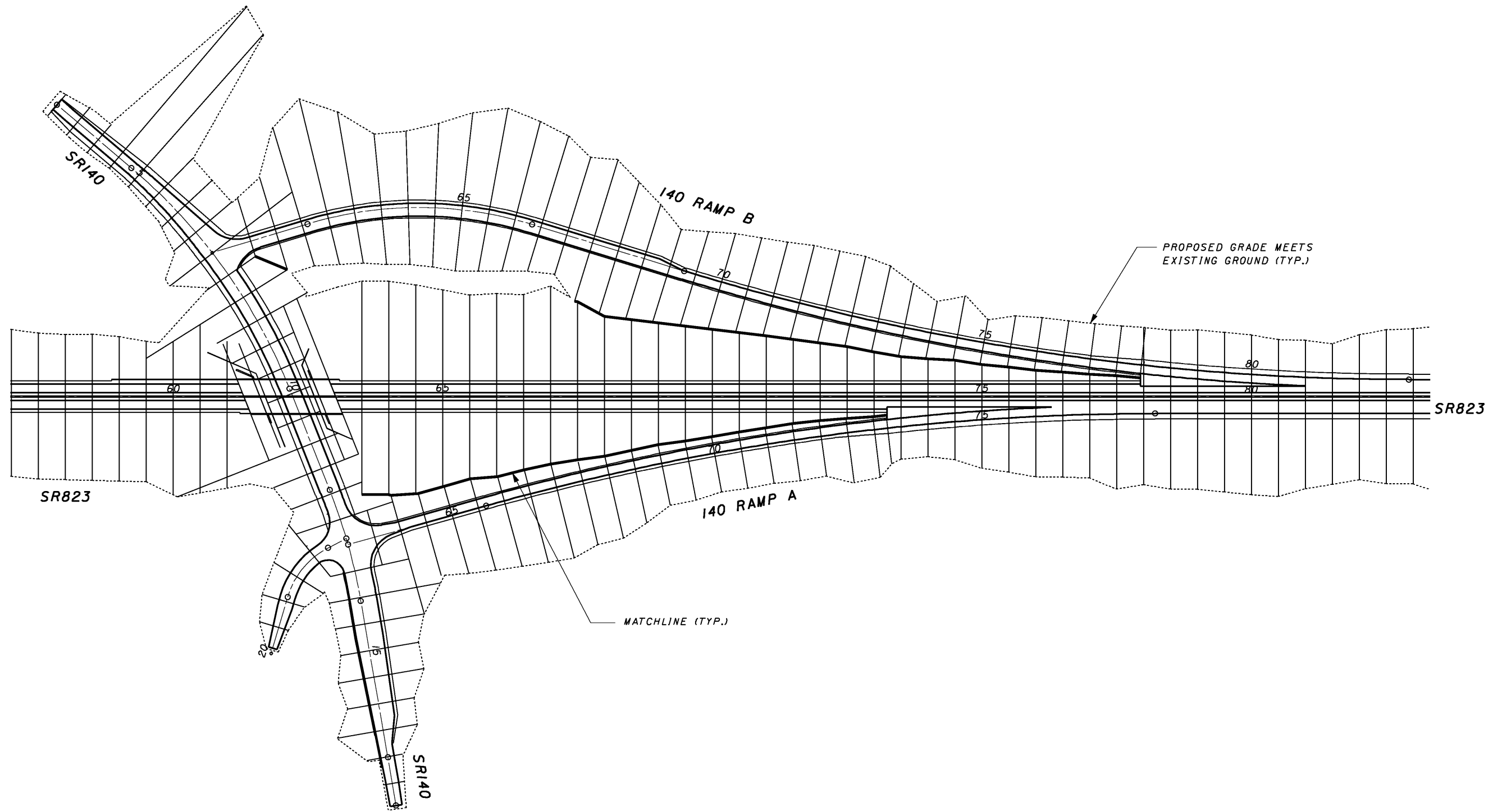


CALCULATED CAS  
CREATED RW

**CROSS SECTION LAYOUT  
US52 / SR823 INTERCHANGE**

**SCI-823-0.00**

4:05:57 PM 1/30/2008 g:\co03\0064\road\phase\_3\77366x02.sht



**NOTES:**

1. FOR HORIZONTAL CURVE DATA, SEE SHEET XXX.

2. CROSS SECTIONS WERE CUT AT EVERY 50' WITHIN INTERCHANGE LIMITS AND BEYOND INTERCHANGE LIMITS.



CALCULATED  
C.A.S.  
CHECKED  
R.W.

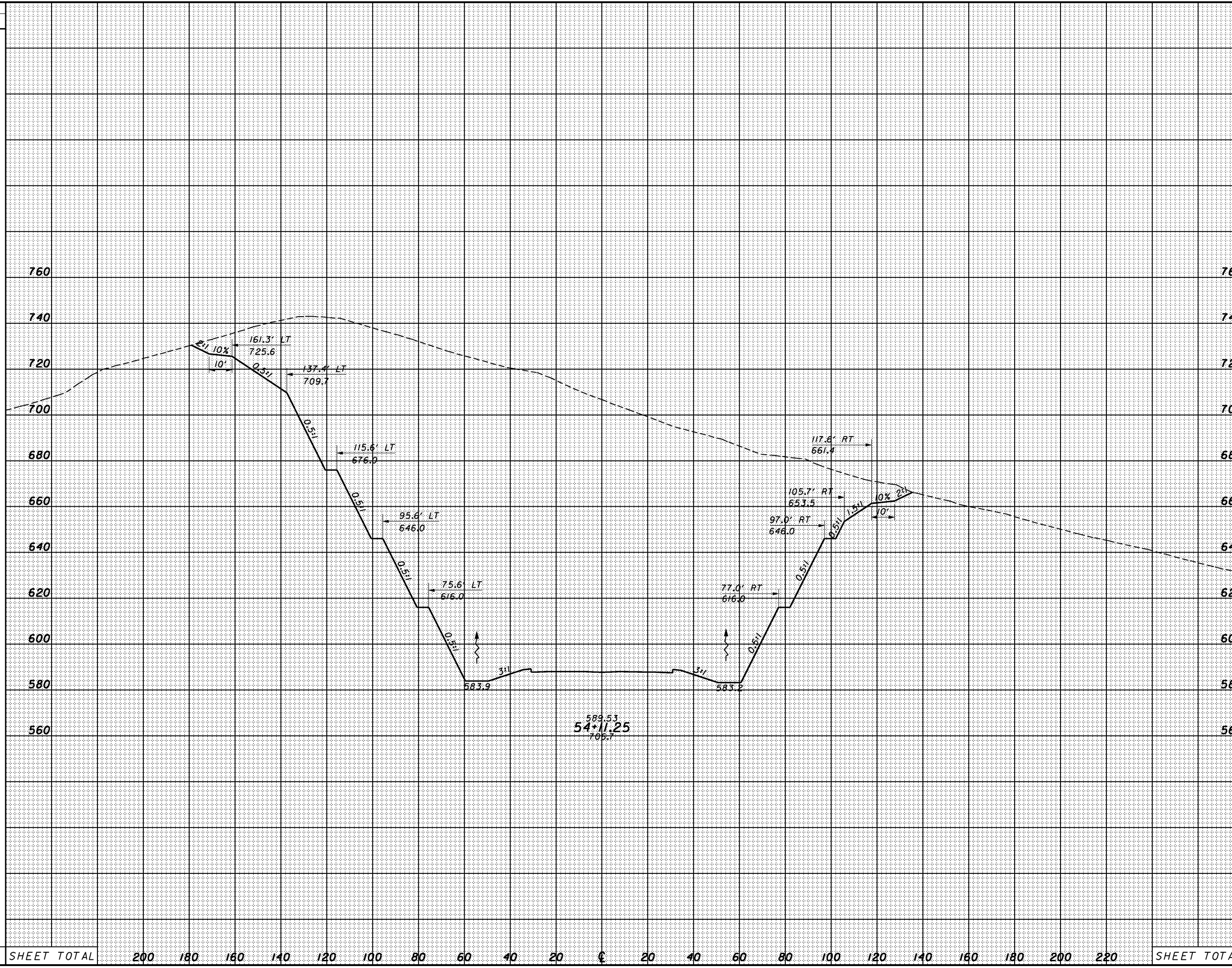
**CROSS SECTION LAYOUT  
SR140 / SR823 INTERCHANGE**

**SCI-823-0.00**

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8:54:12 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823.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

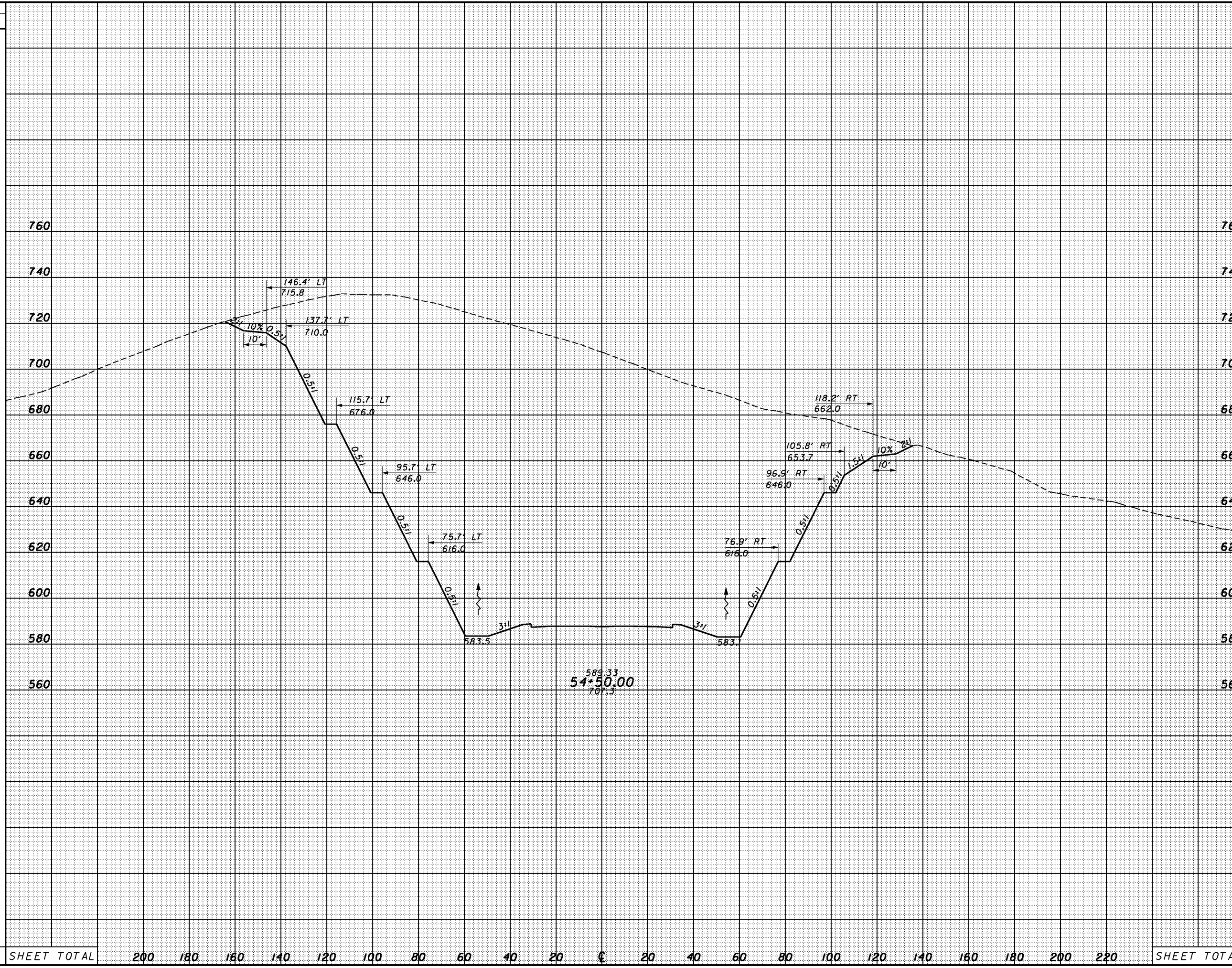
CROSS SECTIONS  
SR823 - STA. 54+11.25

SCI-823-0.00

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8:54:13 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823.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. 54+50.00

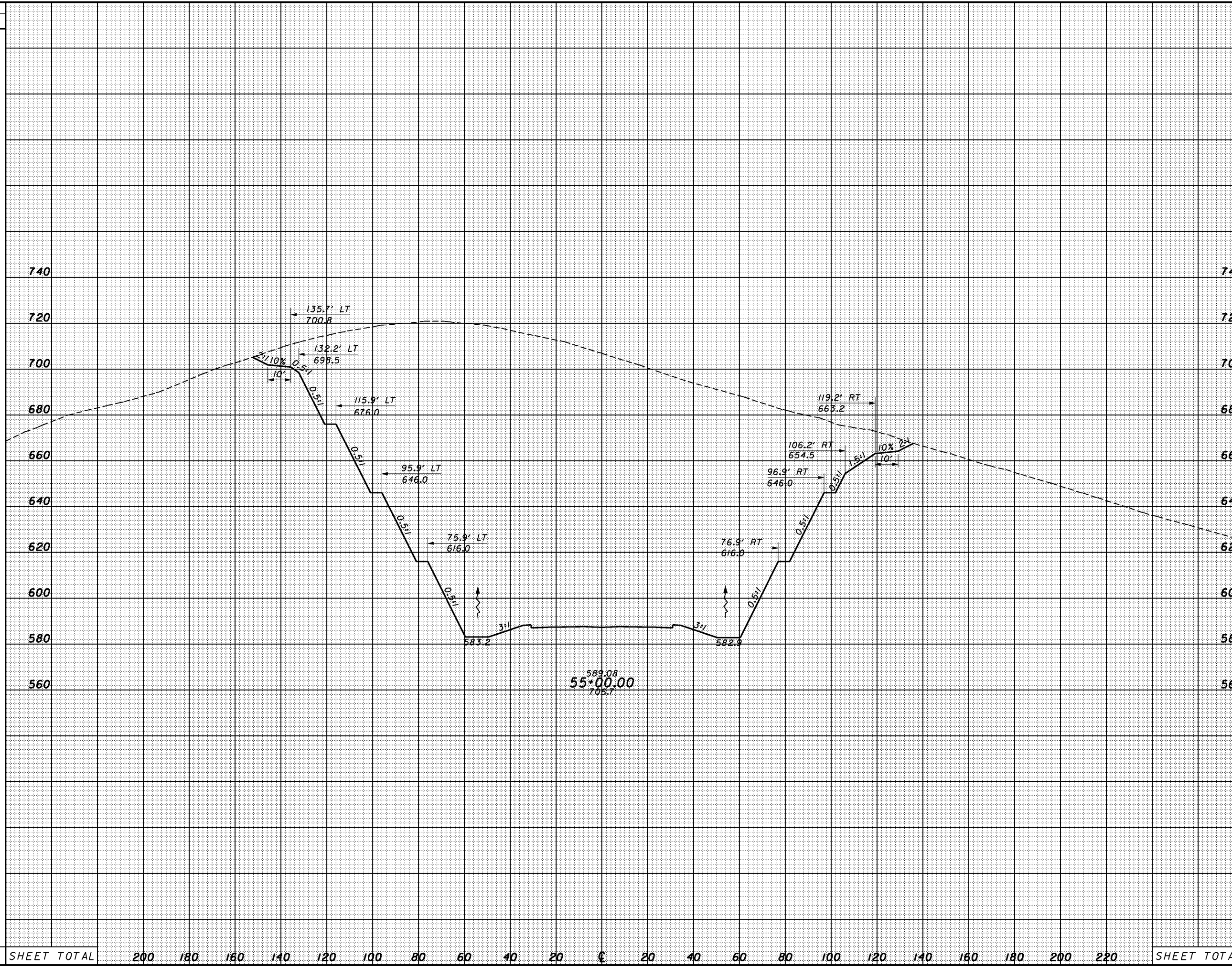
SCI-823-0.00



SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8:54:14 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823.dgn



CROSS SECTIONS  
SR823 - STA. 55+00.00

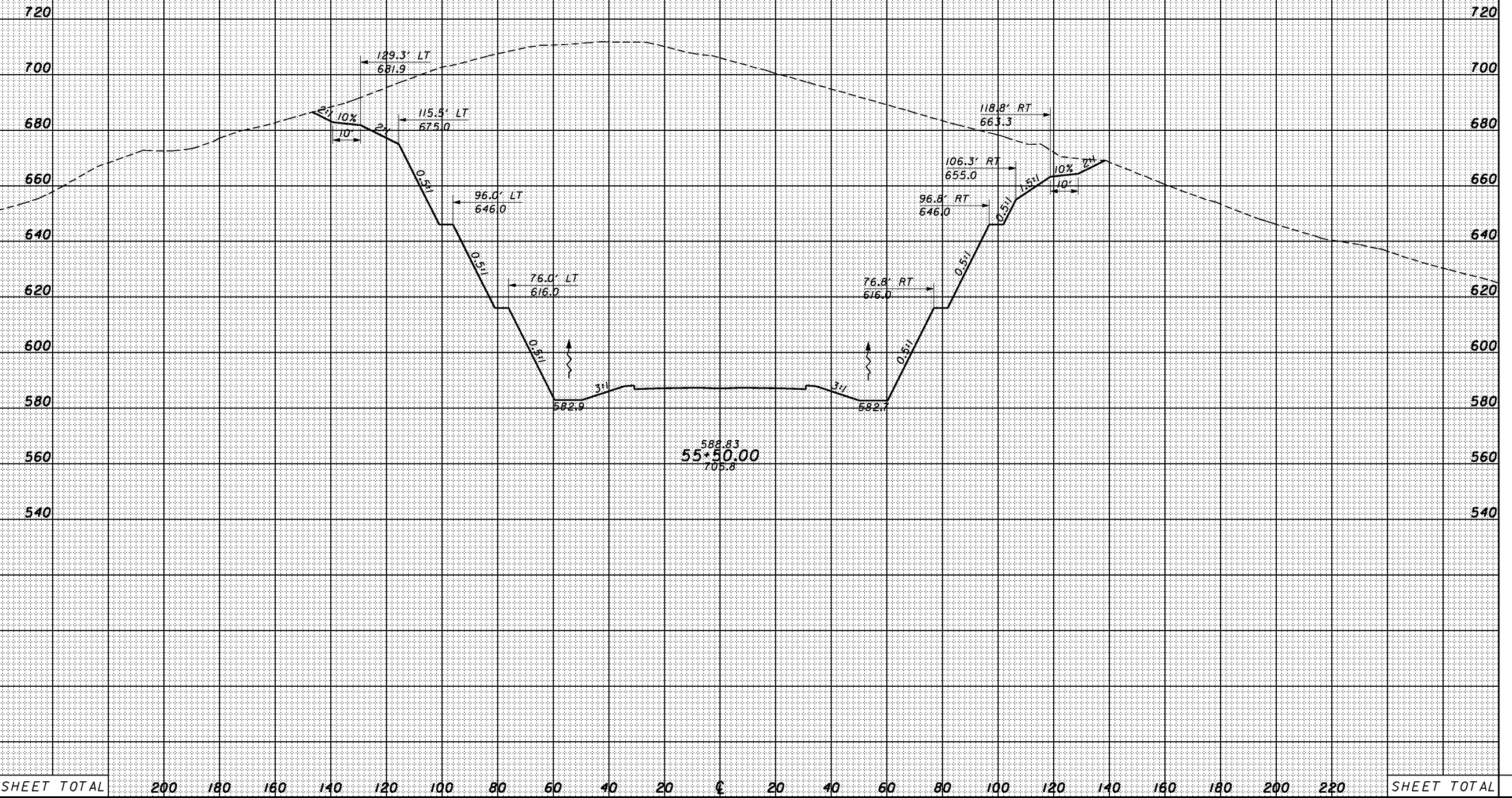
SCI-823-0.00

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
------------	---------

8:54:45 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13668x-sr-823.dgn



CROSS SECTIONS  
 SR823 - STA. 55+50.00

SCI-823-0.00

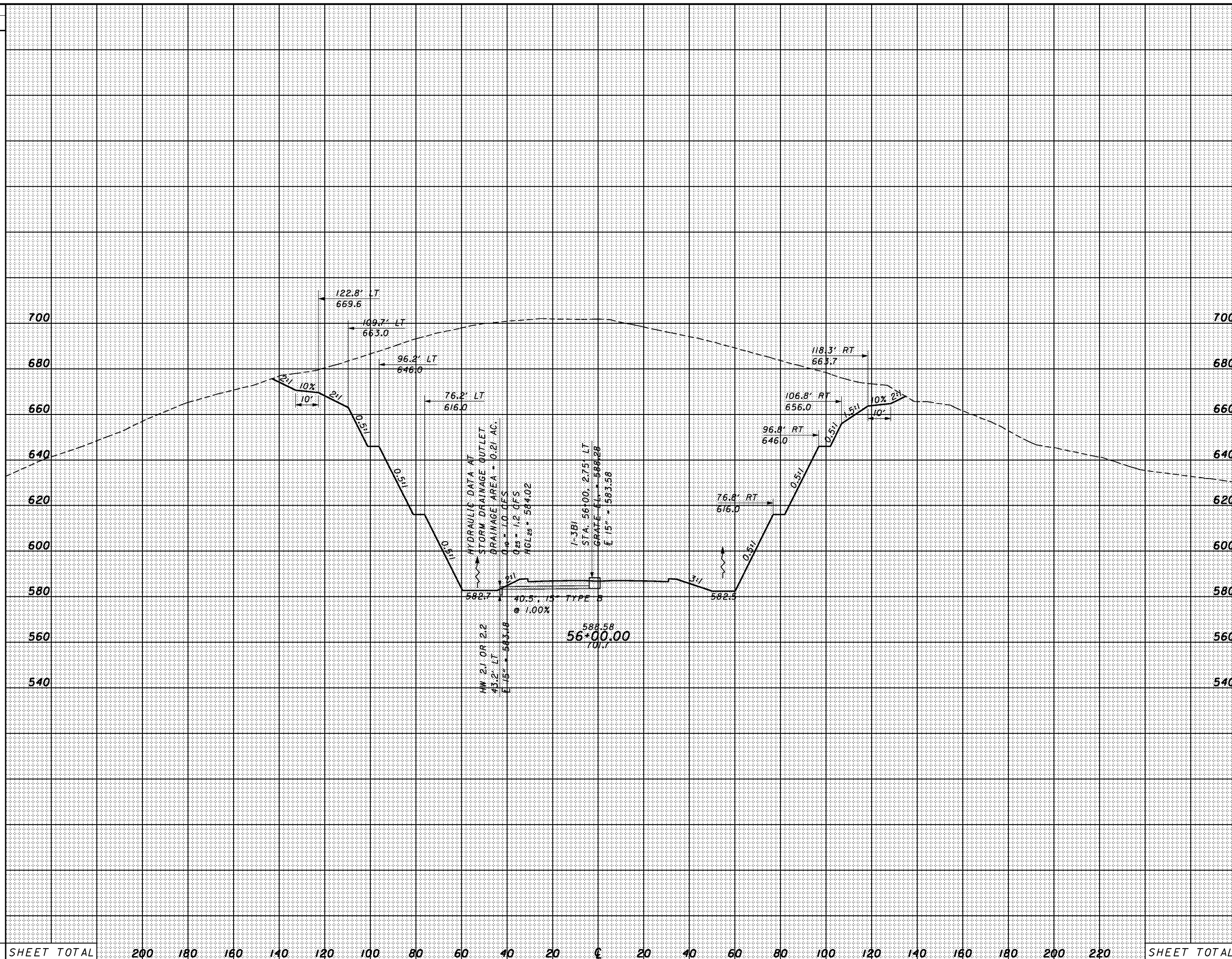
121



8:54:16 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_a.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

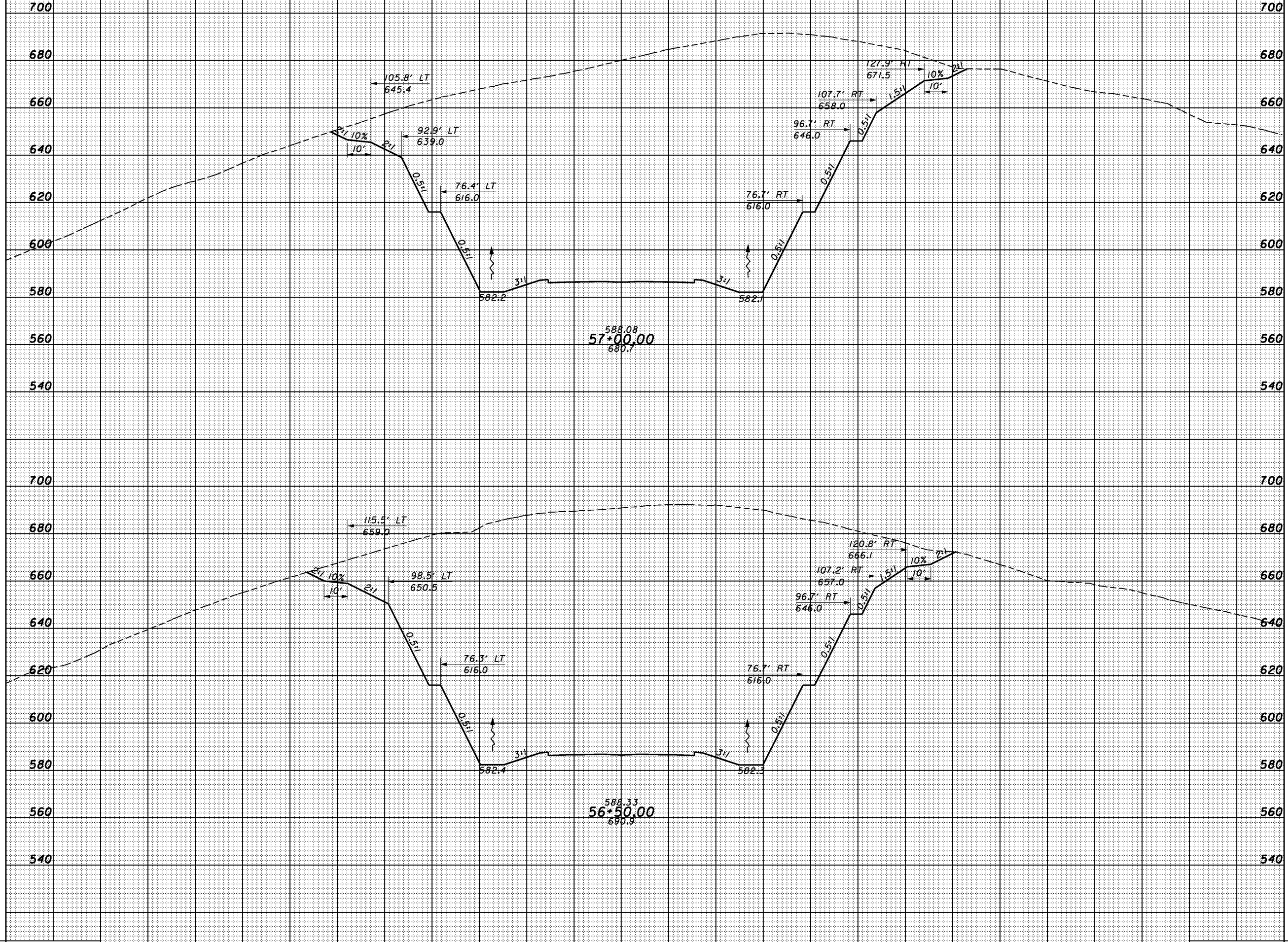
CROSS SECTIONS  
SR823 - STA. 56+00.00

SCI-823-0.00

8:54:17 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823.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. 56+50.00 TO STA. 57+00.00

SCI-823-0.00

SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

720  
700  
680  
660  
640  
620  
600  
580  
560  
540

720  
700  
680  
660  
640  
620  
600  
580  
560  
540

720  
700  
680  
660  
640  
620  
600  
580  
560

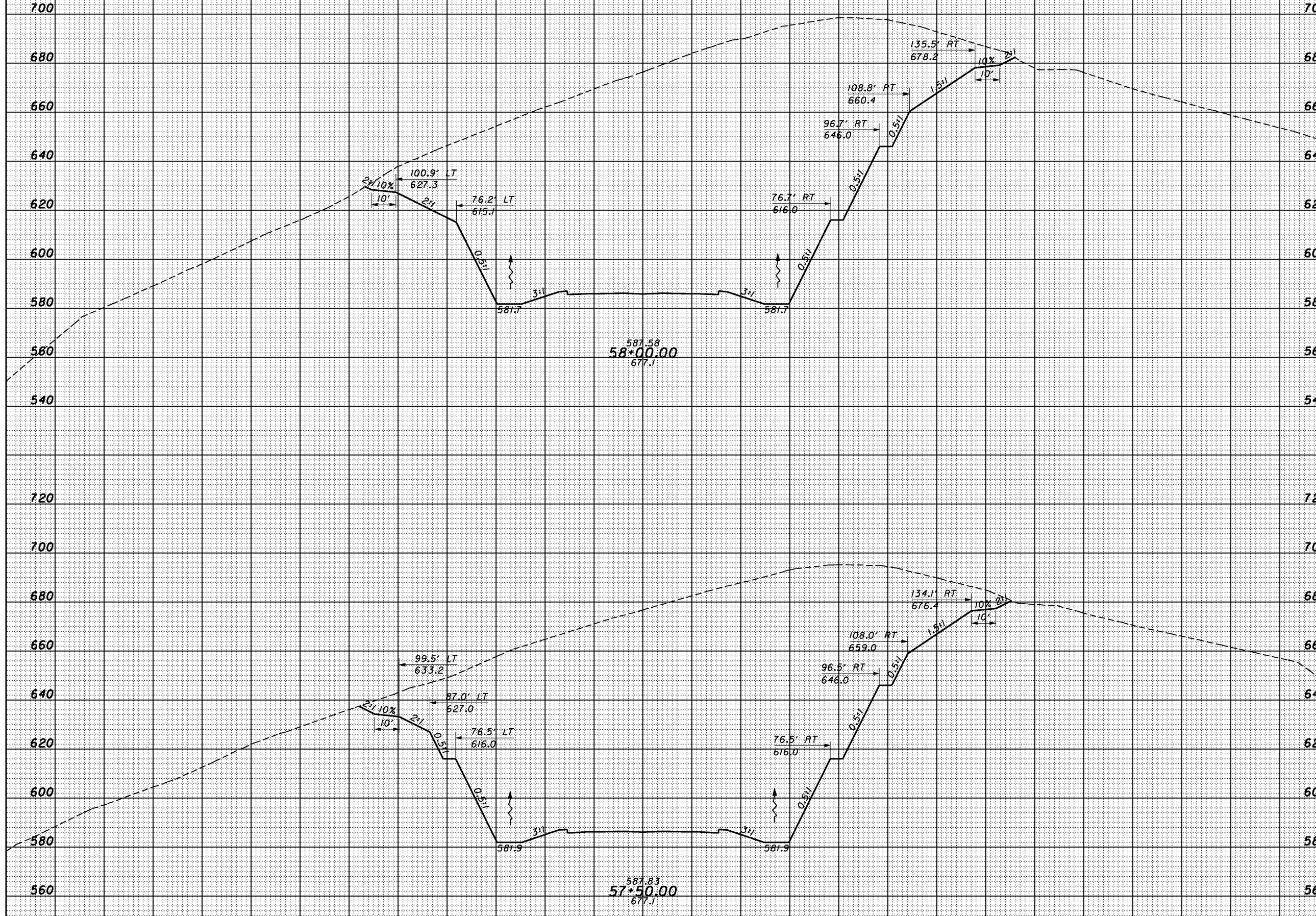
720  
700  
680  
660  
640  
620  
600  
580  
560

SHEET TOTAL

SHEET TOTAL

8:54:18 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13666xs-sr-823.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. 57+50.00 TO STA. 58+00.00

SCI-823-0.00



8:54:19 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823.dgn

SEEDING	
END WIDTH	SO. YDS.

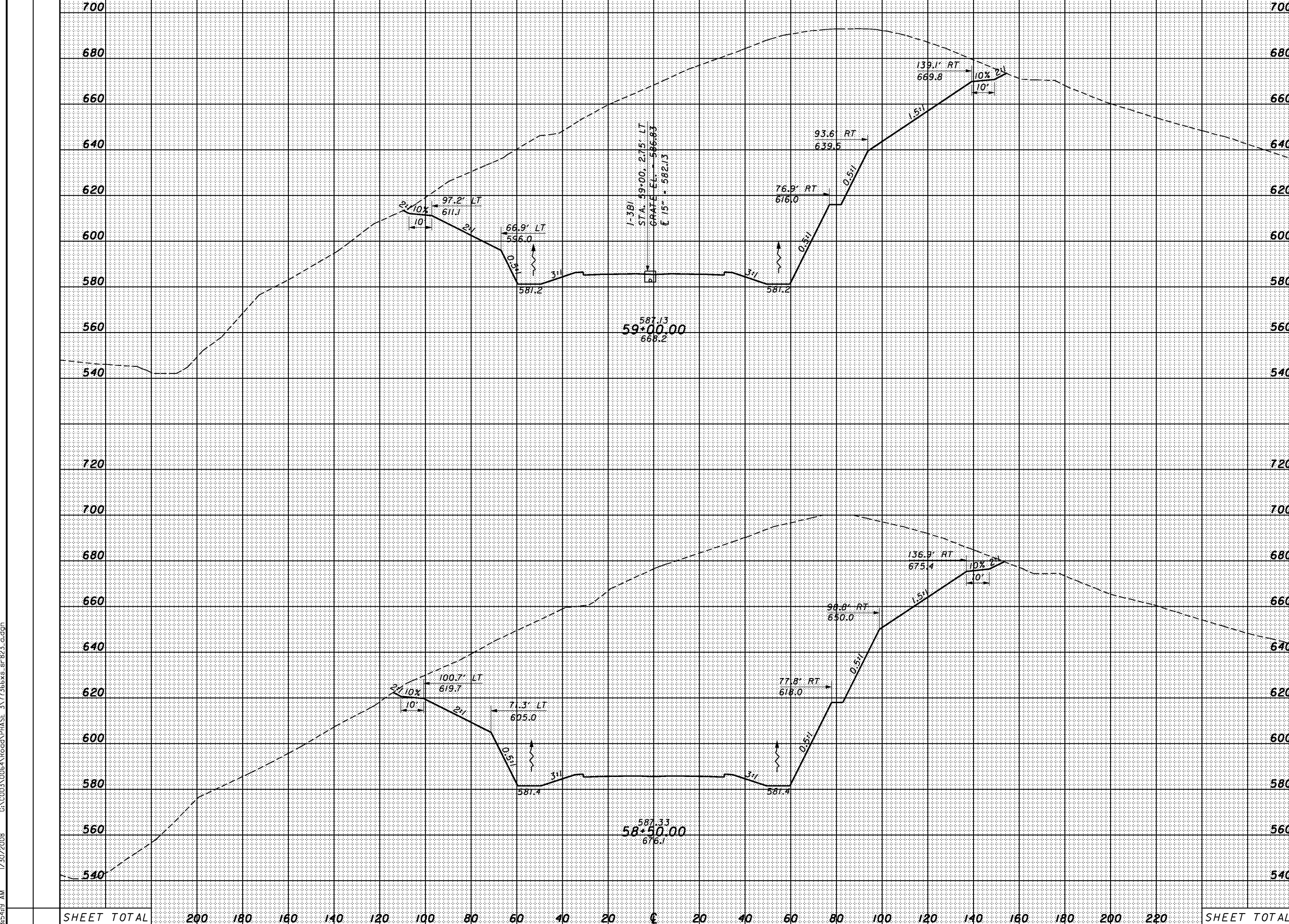
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 58+50.00 TO STA. 59+00.00

SCI-823-0.00

125

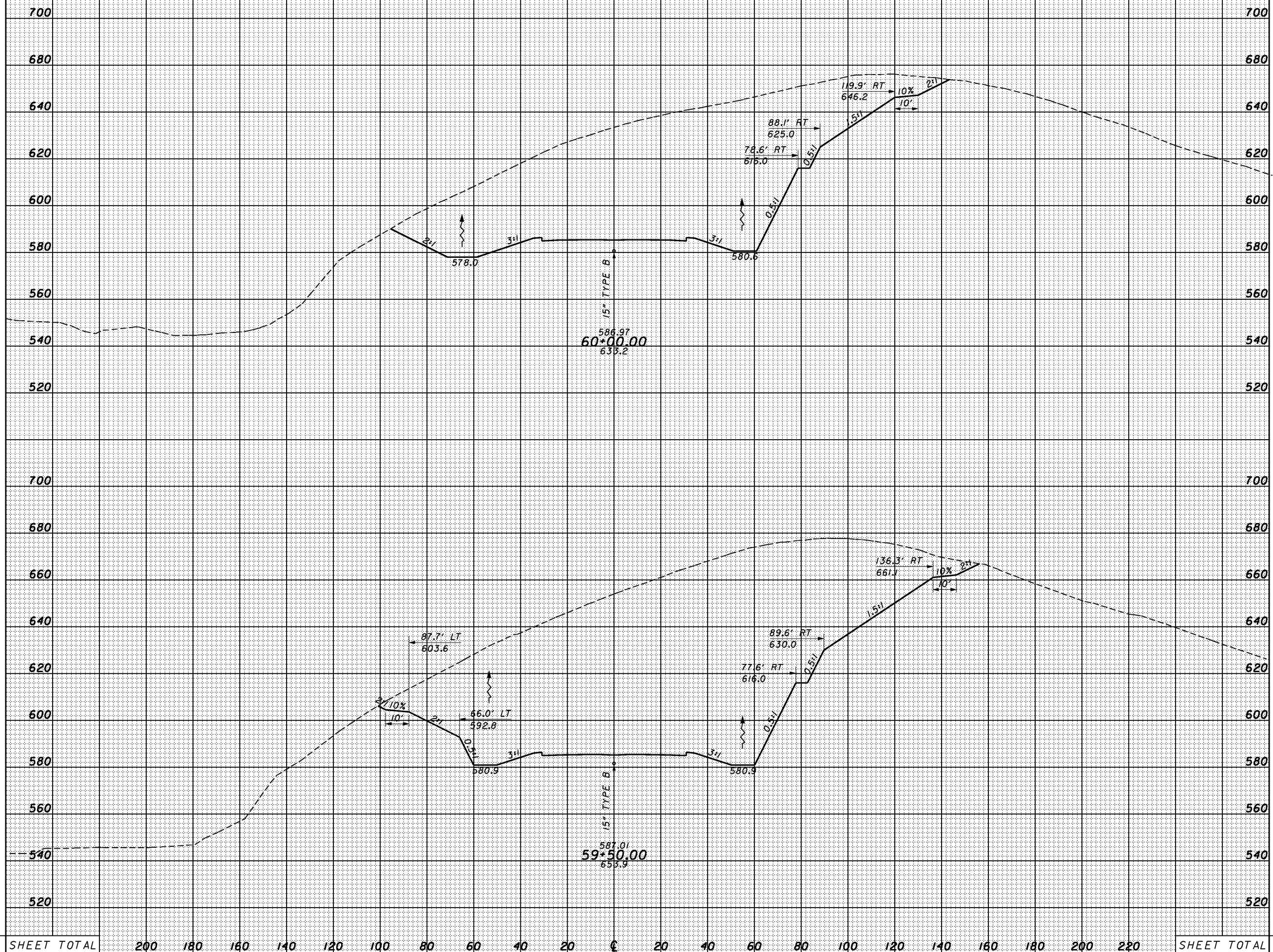


700	700
680	680
660	660
640	640
620	620
600	600
580	580
560	560
540	540
720	720
700	700
680	680
660	660
640	640
620	620
600	600
580	580
560	560
540	540
SHEET TOTAL	SHEET TOTAL

8:54:20 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823.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
-------------	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-------------

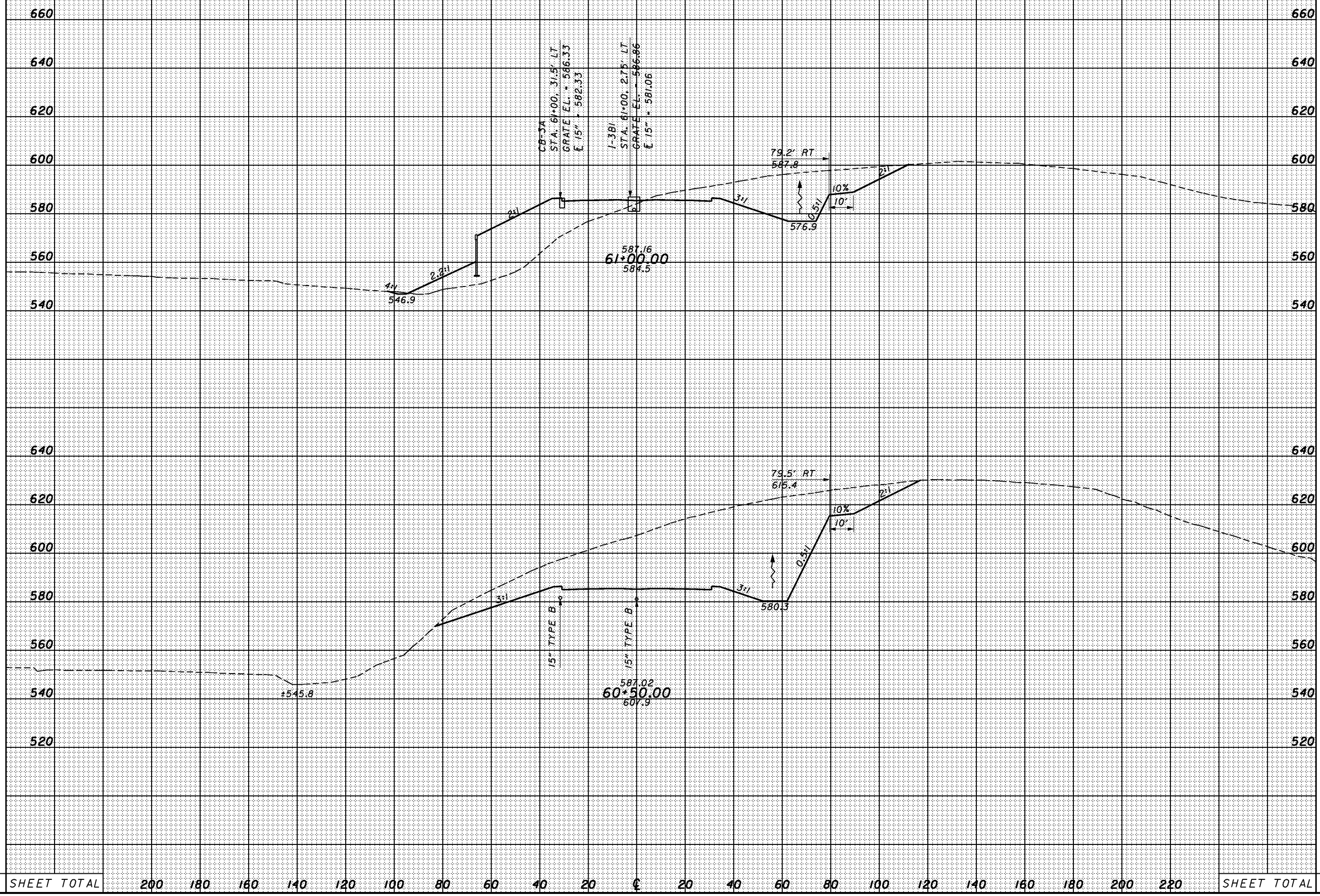
CROSS SECTIONS  
SR823 - STA. 59+50.00 TO STA. 60+00.00

SCI-823-0.00

SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8/5/2008 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823.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

SCI-823-0.00      CROSS SECTIONS      SR823 - STA. 60+50.00 TO STA. 61+00.00



8:54:22 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823.dgn

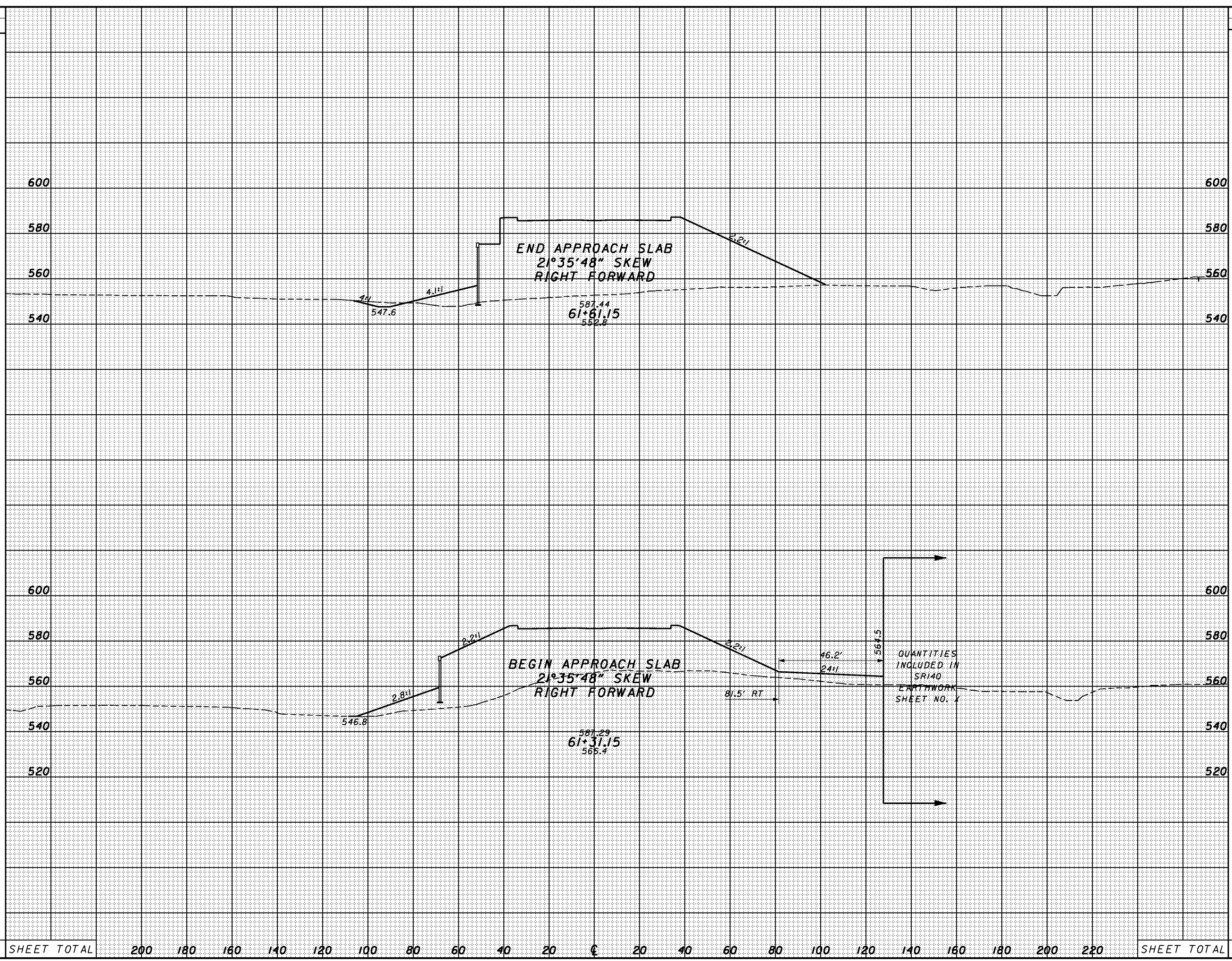
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
 SR823 - STA. 61+31.15 TO STA. 61+61.15

SCI-823-0.00



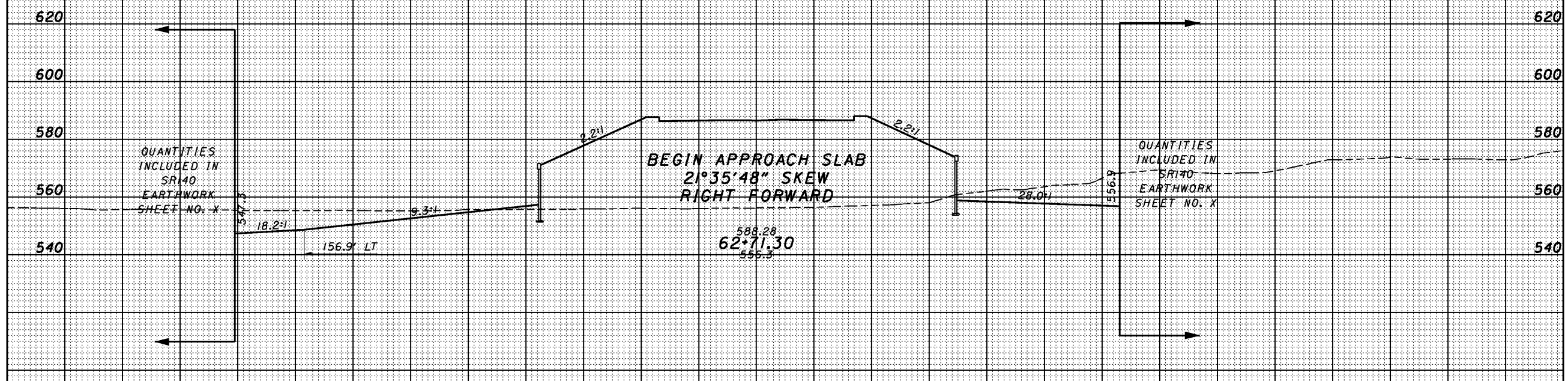
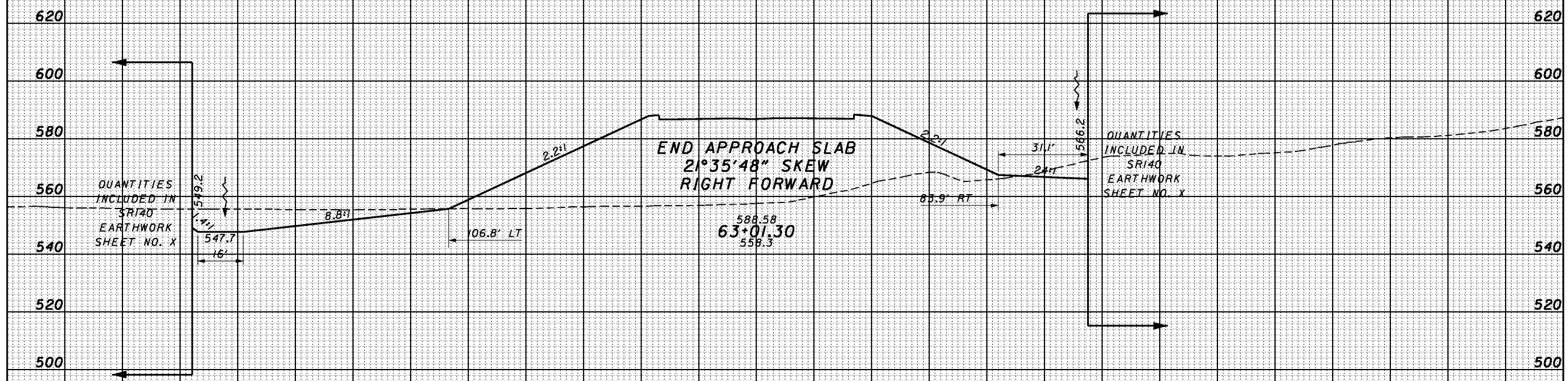
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8:54:22 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823.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. 62+71.30 TO STA. 63+01.30

SCI-823-0.00

8:54:23 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823.dgn

SEEDING	
END WIDTH	SO. YDS.

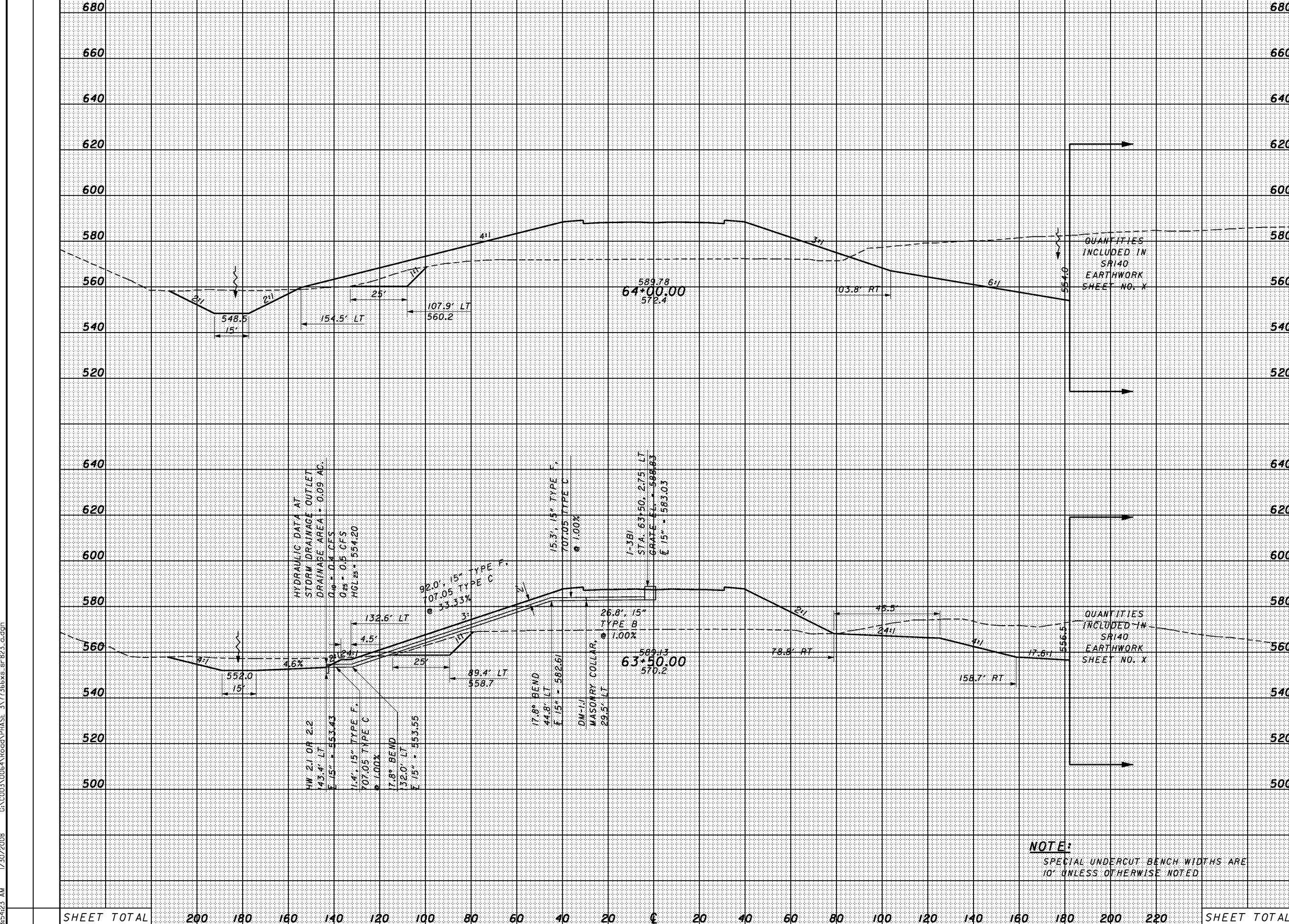
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 63+50.00 TO STA. 64+00.00

SCI-823-0.00

130

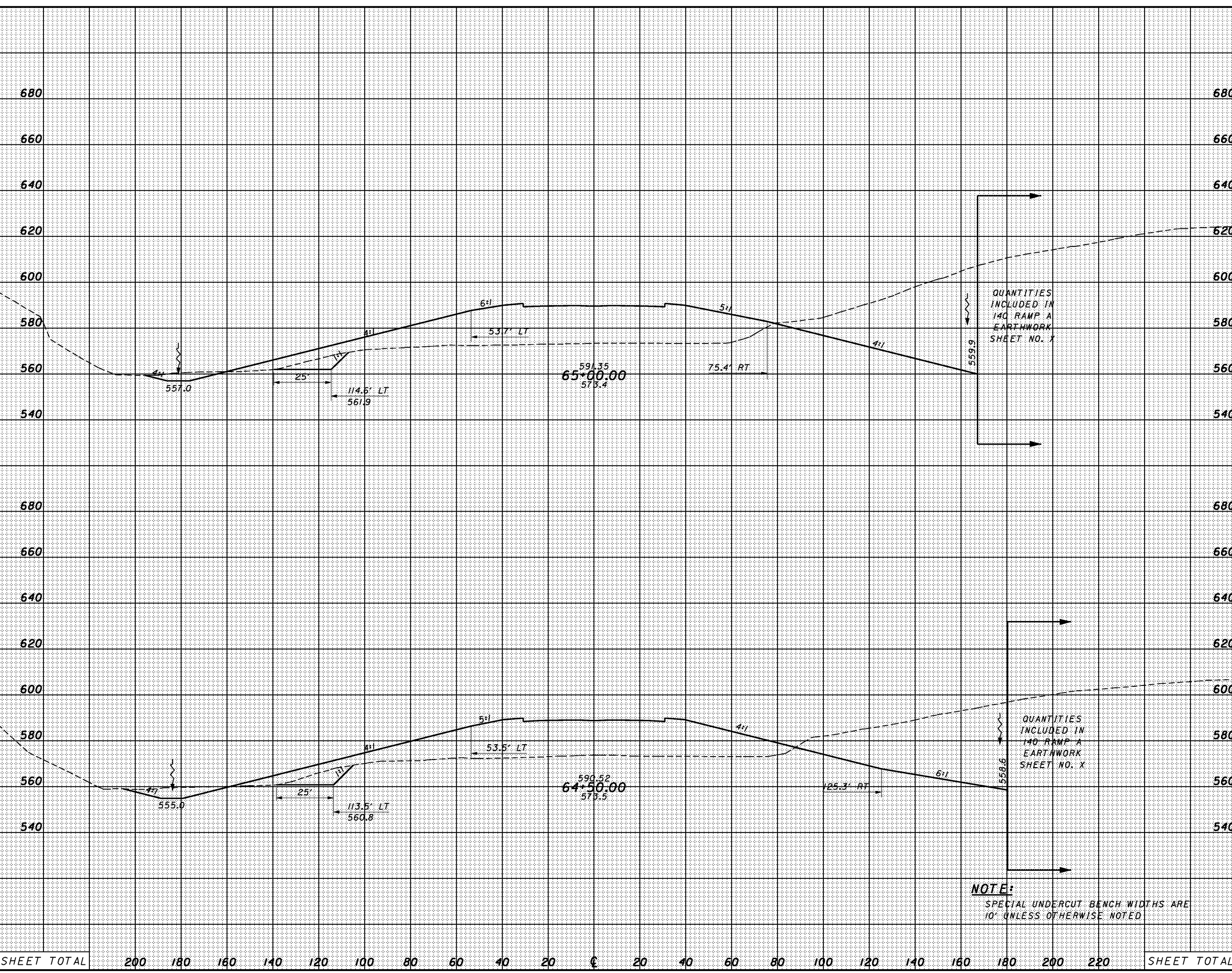


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



QUANTITIES INCLUDED IN 140 RAMP A EARTHWORK SHEET NO. X

QUANTITIES INCLUDED IN 140 RAMP A EARTHWORK SHEET NO. X

**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
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CROSS SECTIONS  
SR823 - STA. 64+50.00 TO STA. 65+00.00

SCI-823-0.00

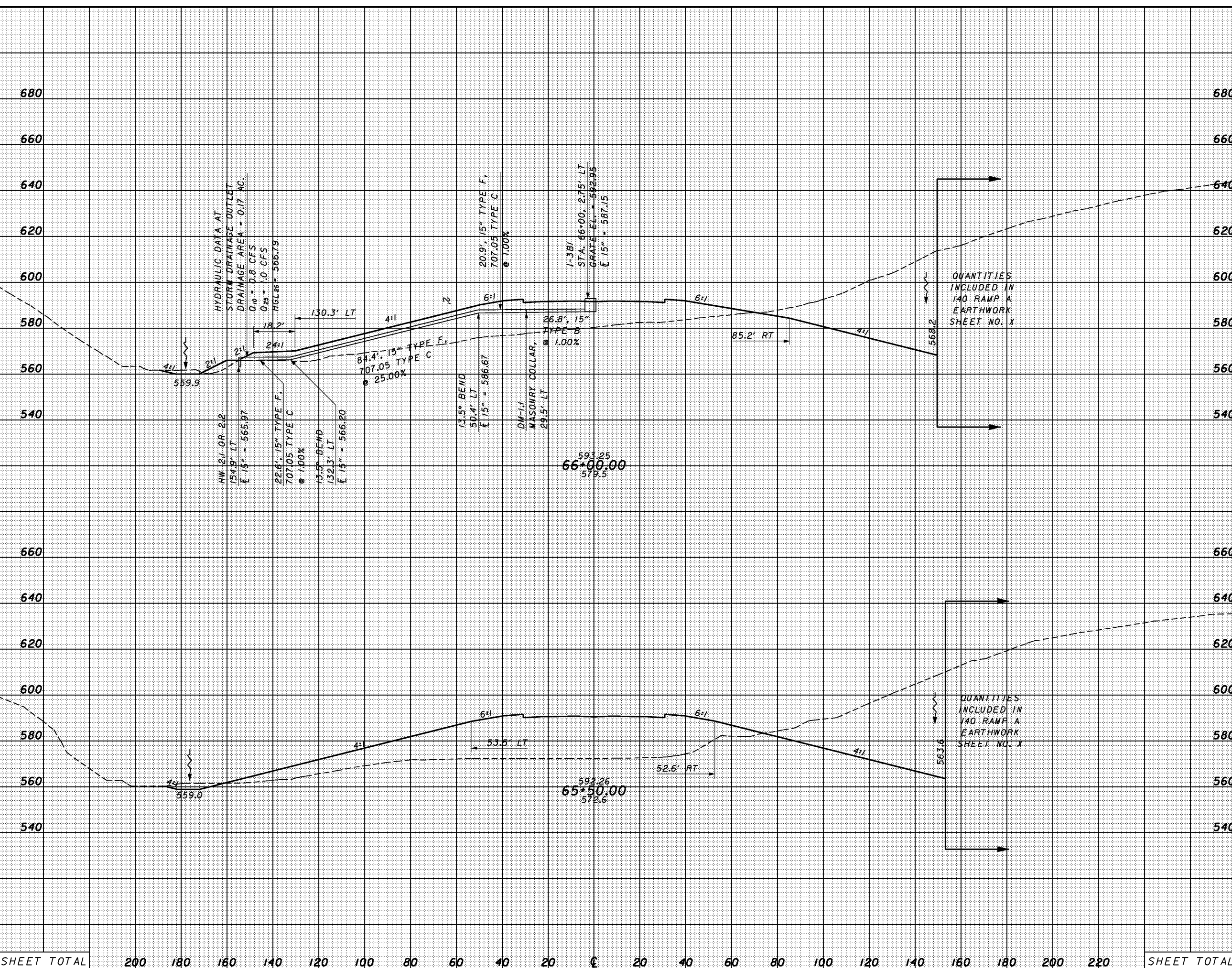


8:54:25 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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QUANTITIES INCLUDED IN 140 RAMP A EARTHWORK SHEET NO. X

QUANTITIES INCLUDED IN 140 RAMP A EARTHWORK SHEET NO. X

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

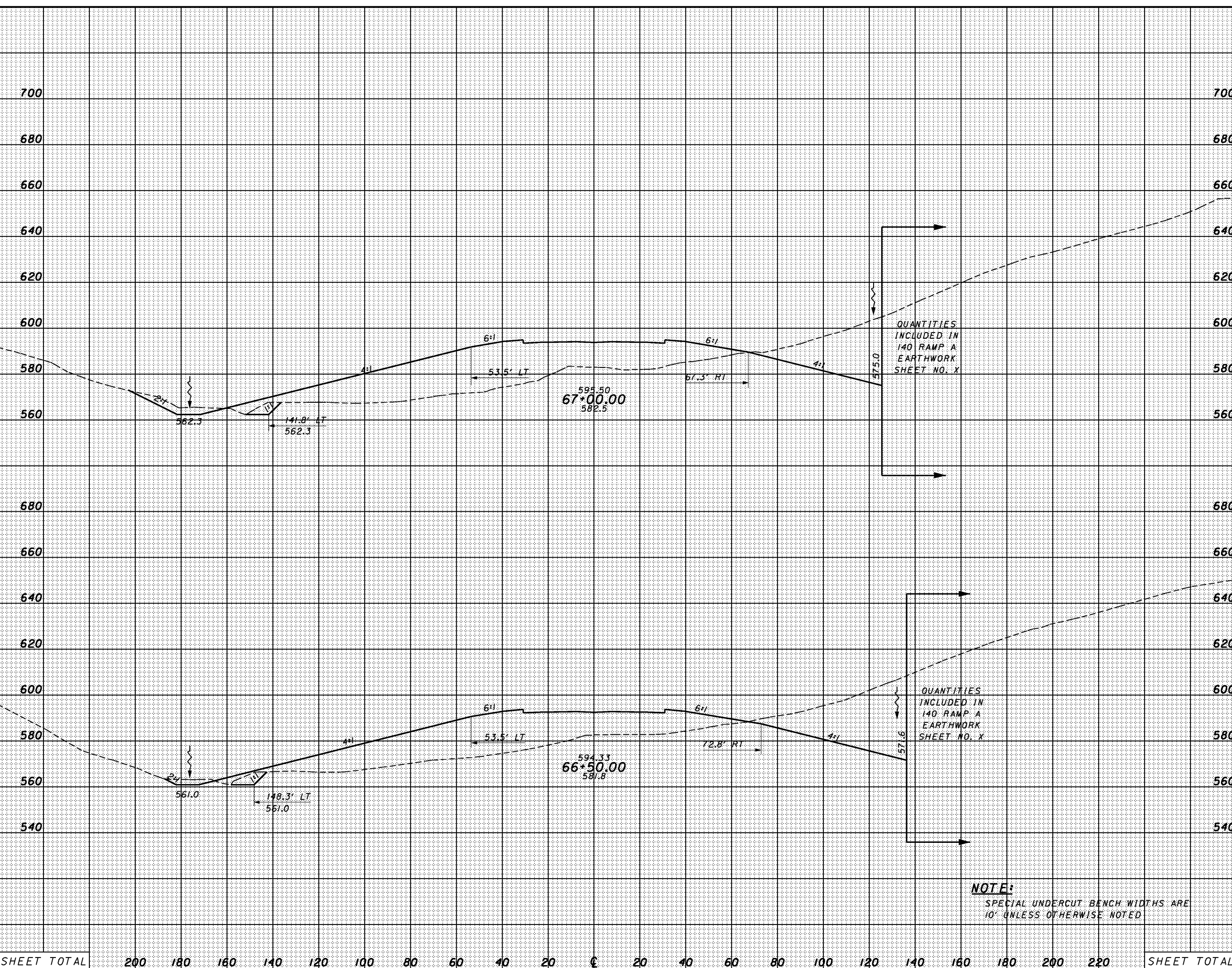
CROSS SECTIONS  
SR823 - STA. 65+50.00 TO STA. 66+00.00

SCI-823-0.00

8:54:26 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13668x-sr-823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



QUANTITIES INCLUDED IN 140 RAMP A EARTHWORK SHEET NO. X

QUANTITIES INCLUDED IN 140 RAMP A EARTHWORK SHEET NO. X

**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
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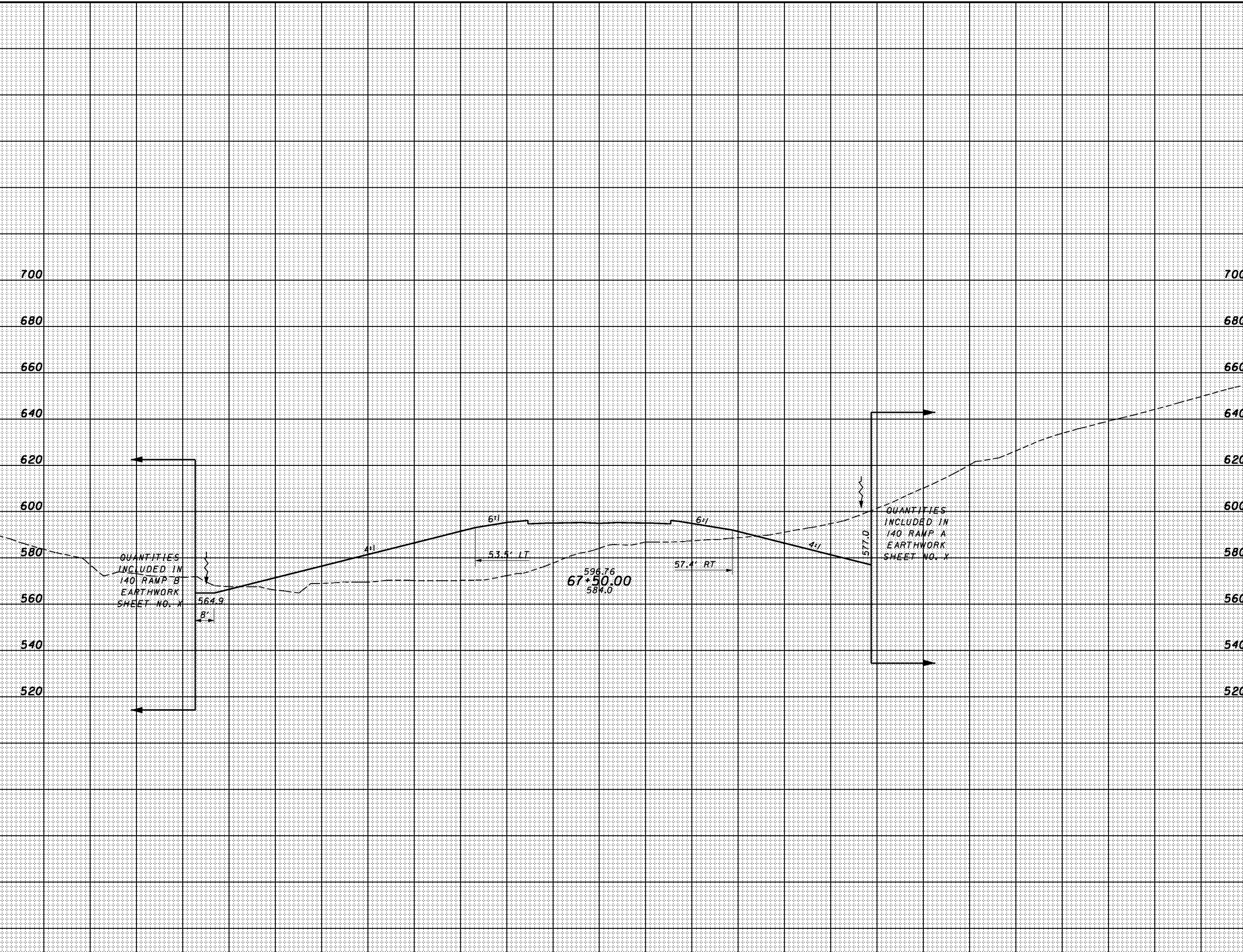
CROSS SECTIONS  
SR823 - STA. 66+50.00 TO STA. 67+00.00

SCI-823-0.00

8:54:27 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\17136668.sr-823.dwg

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. 67+50.00

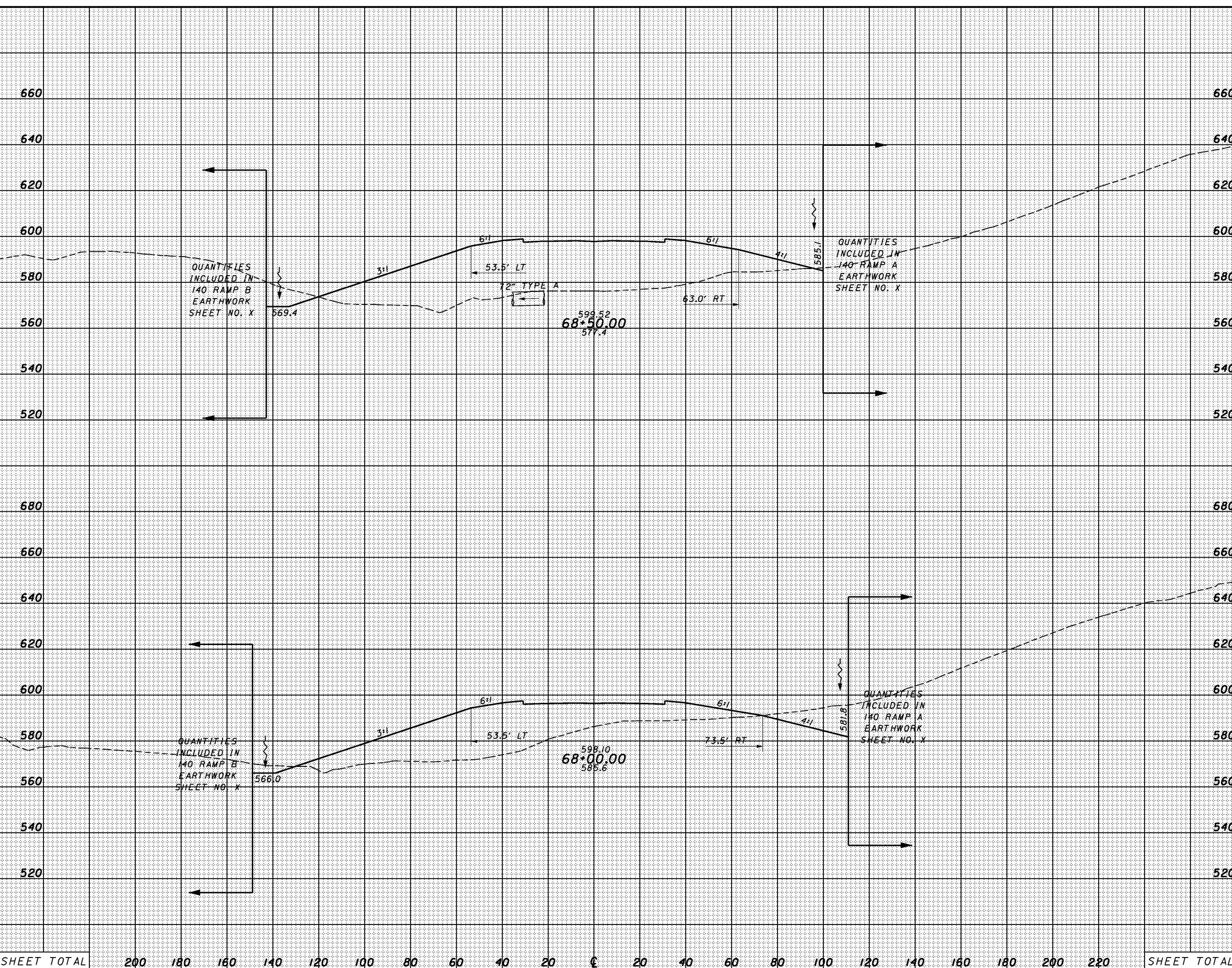
SCI-823-0.00



8:54:28 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823.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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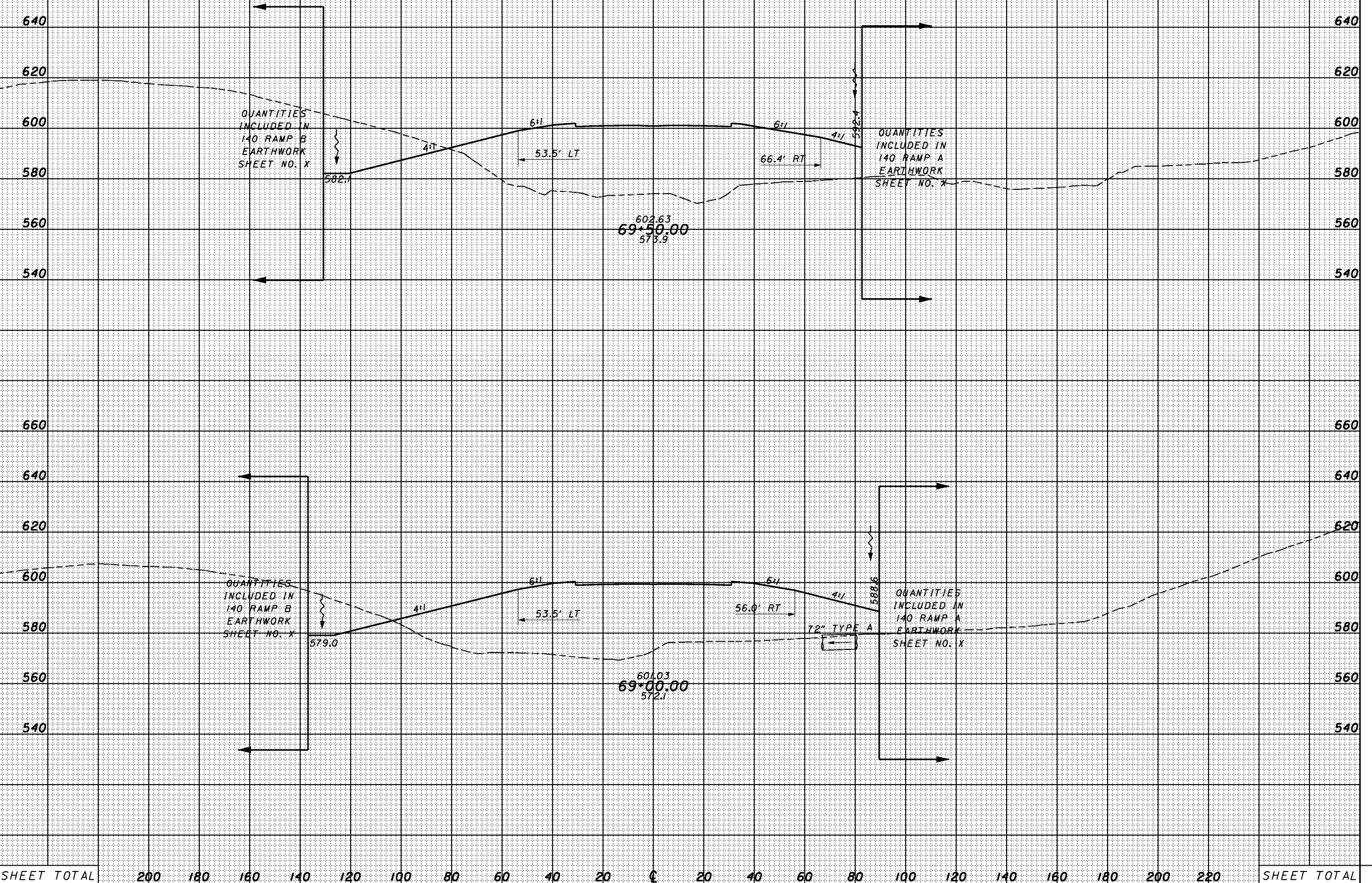
CROSS SECTIONS  
SR823 - STA. 68+00.00 TO STA. 68+50.00

SCI-823-0.00

8:54:29 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823.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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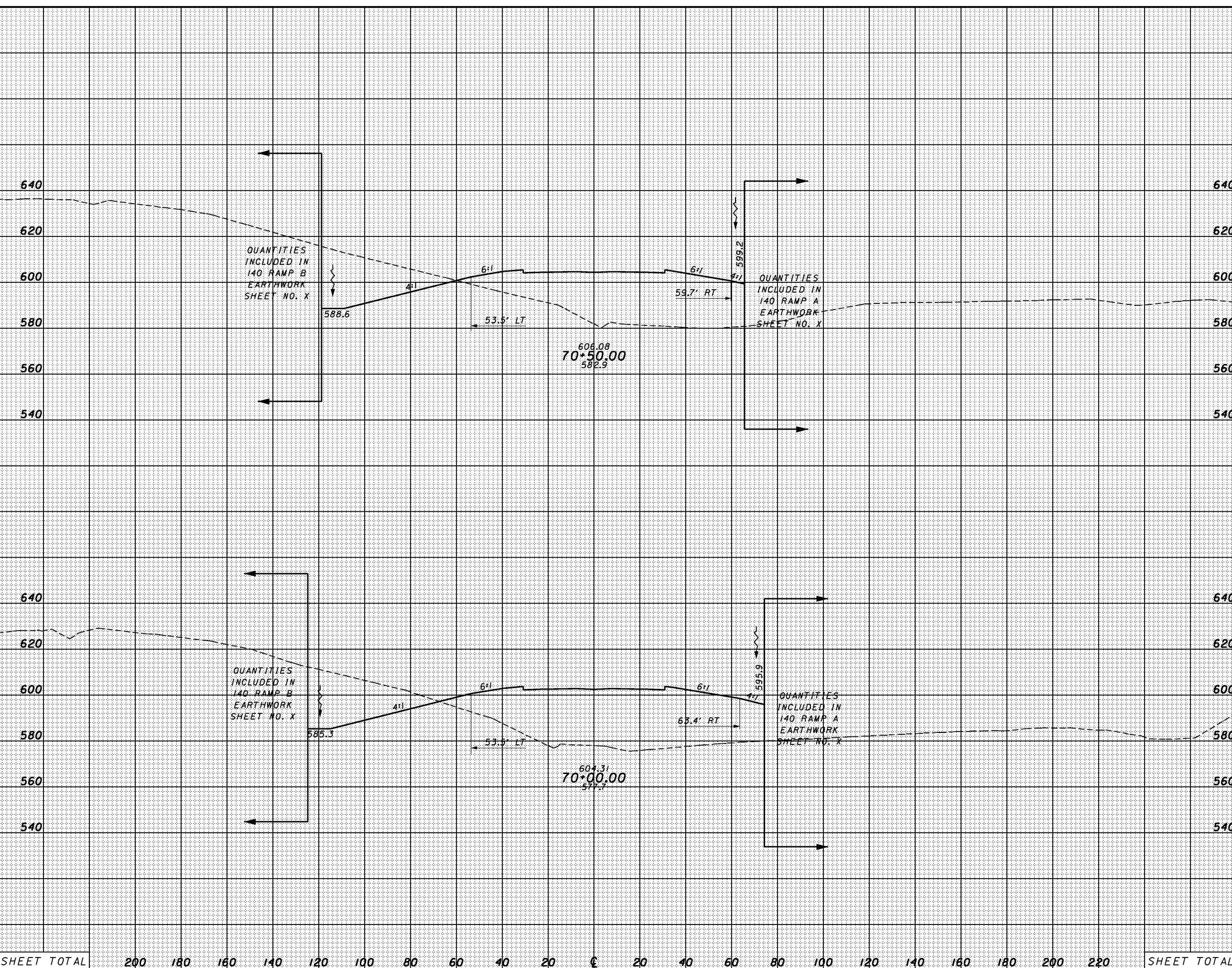
CROSS SECTIONS  
SR823 - STA. 69+00.00 TO STA. 69+50.00

SCI-823-0.00

8:54:30 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823.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. 70+00.00 TO STA. 70+50.00

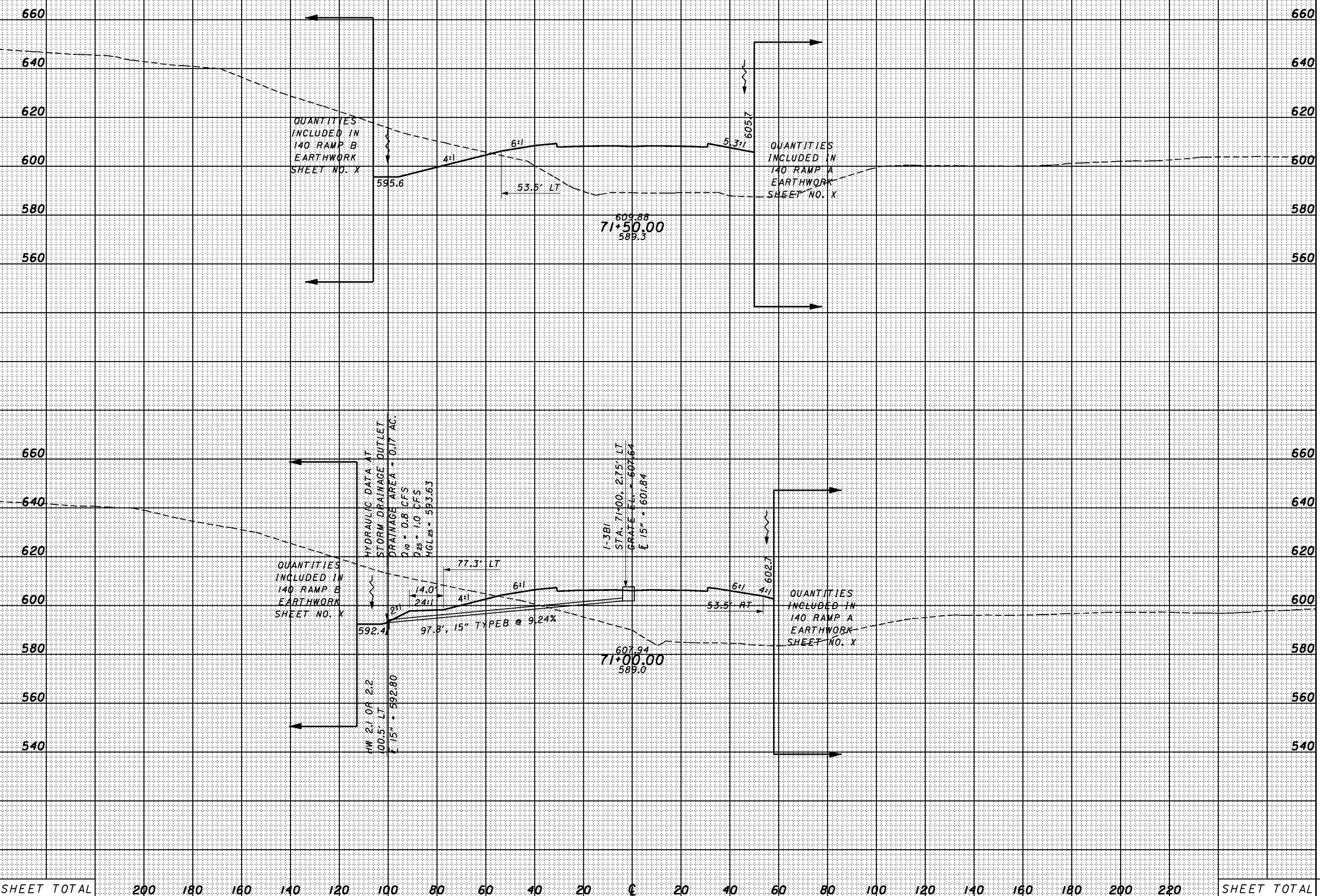
SCI-823-0.00



8:54:31 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823.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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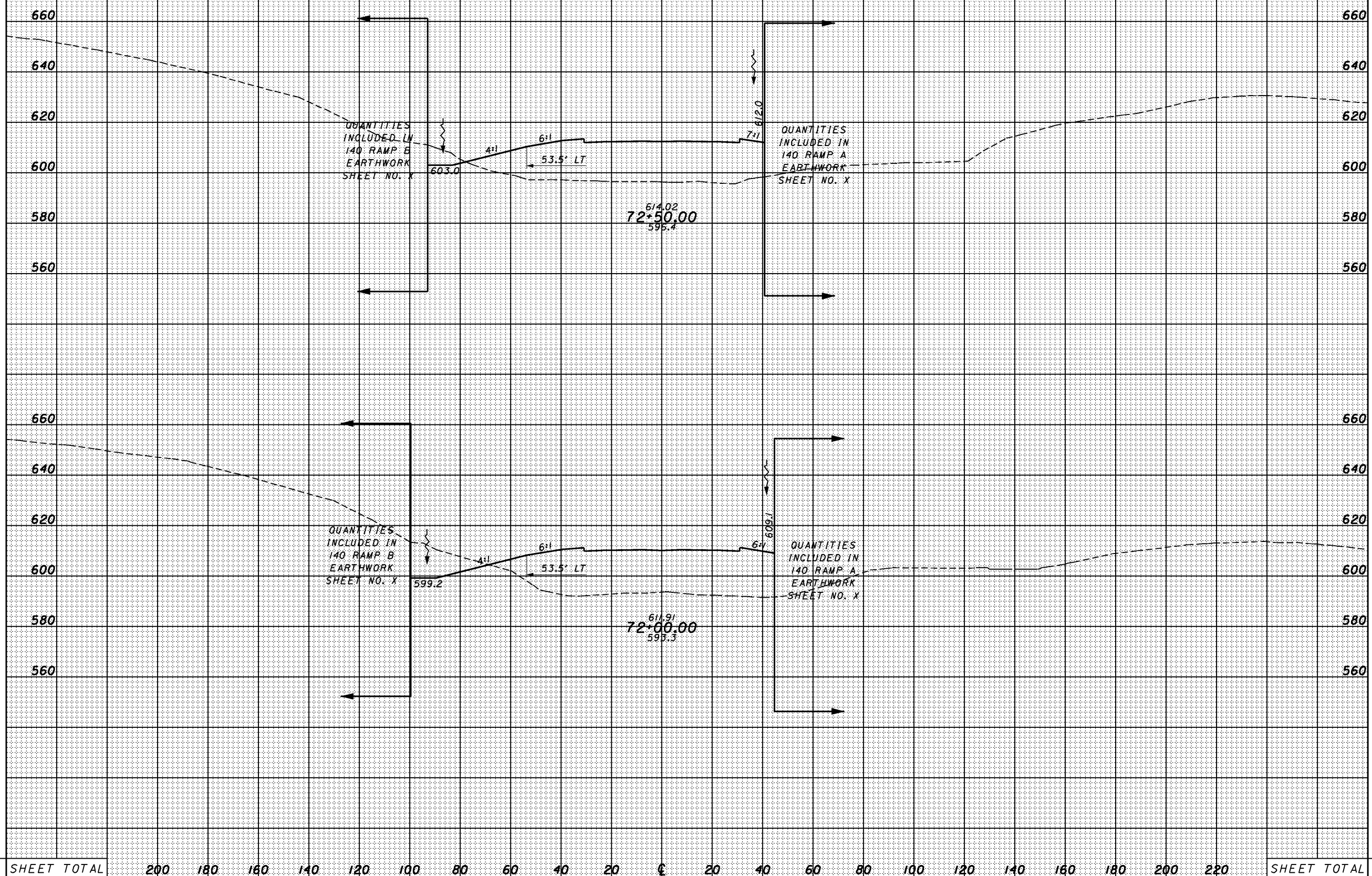
CROSS SECTIONS  
SR823 - STA. 71+00.00 TO STA. 71+50.00

SCI-823-0.00

8:54:32 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823.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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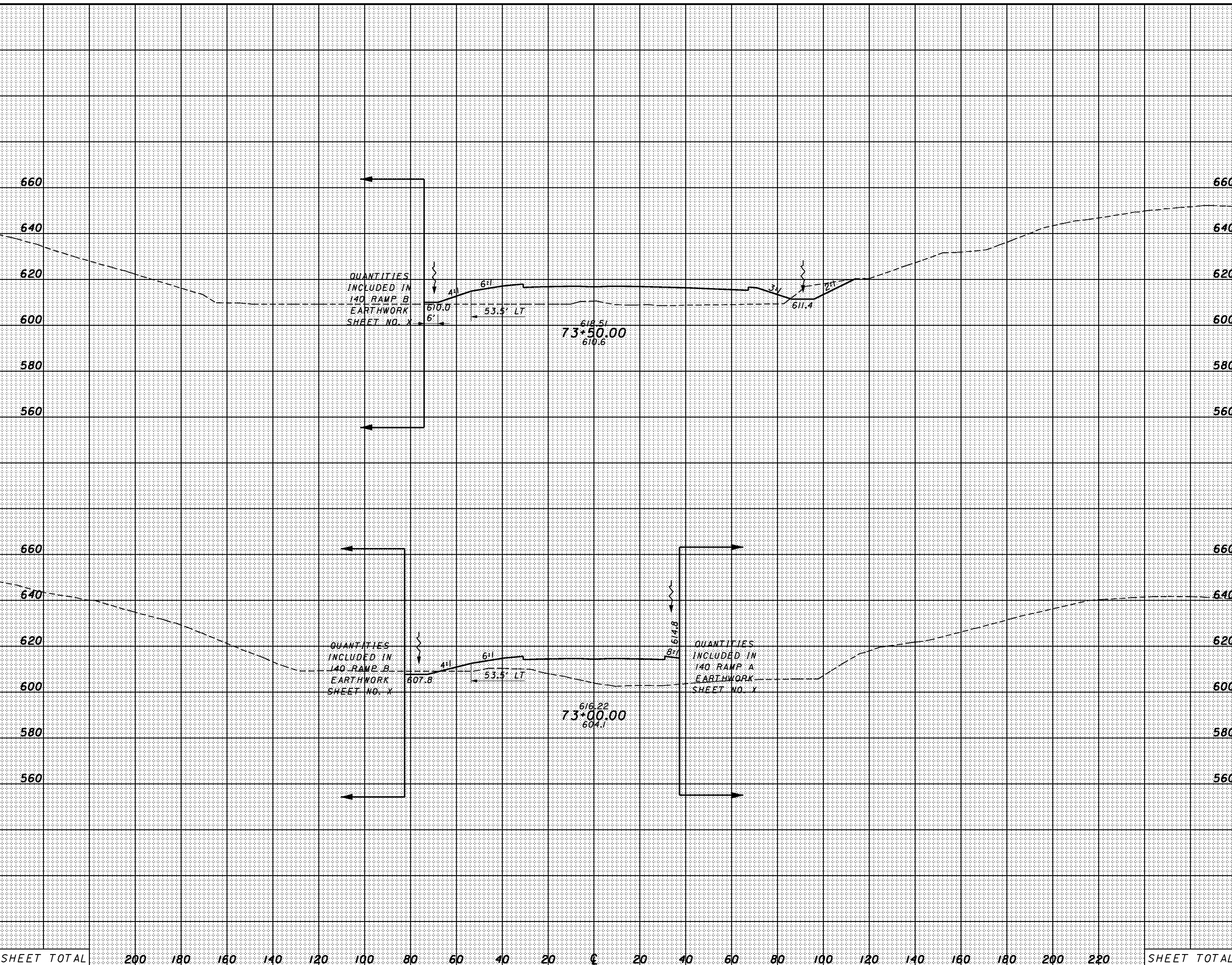
CROSS SECTIONS  
 SR823 - STA. 72+00.00 TO STA. 72+50.00

SCI-823-0.00

8:54:33 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823.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. 73+00.00 TO STA. 73+50.00

SCI-823-0.00

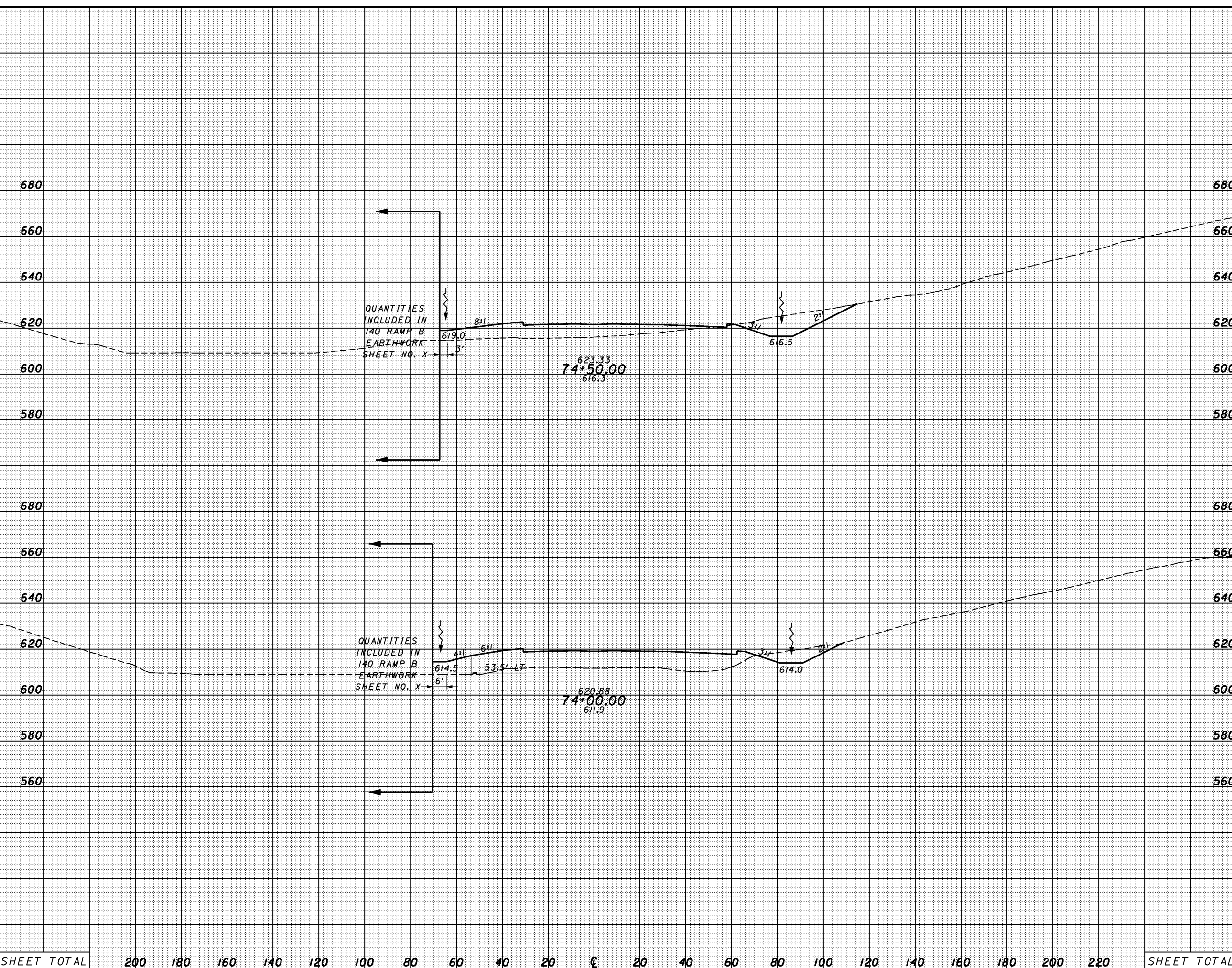
140



8:54:34 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823.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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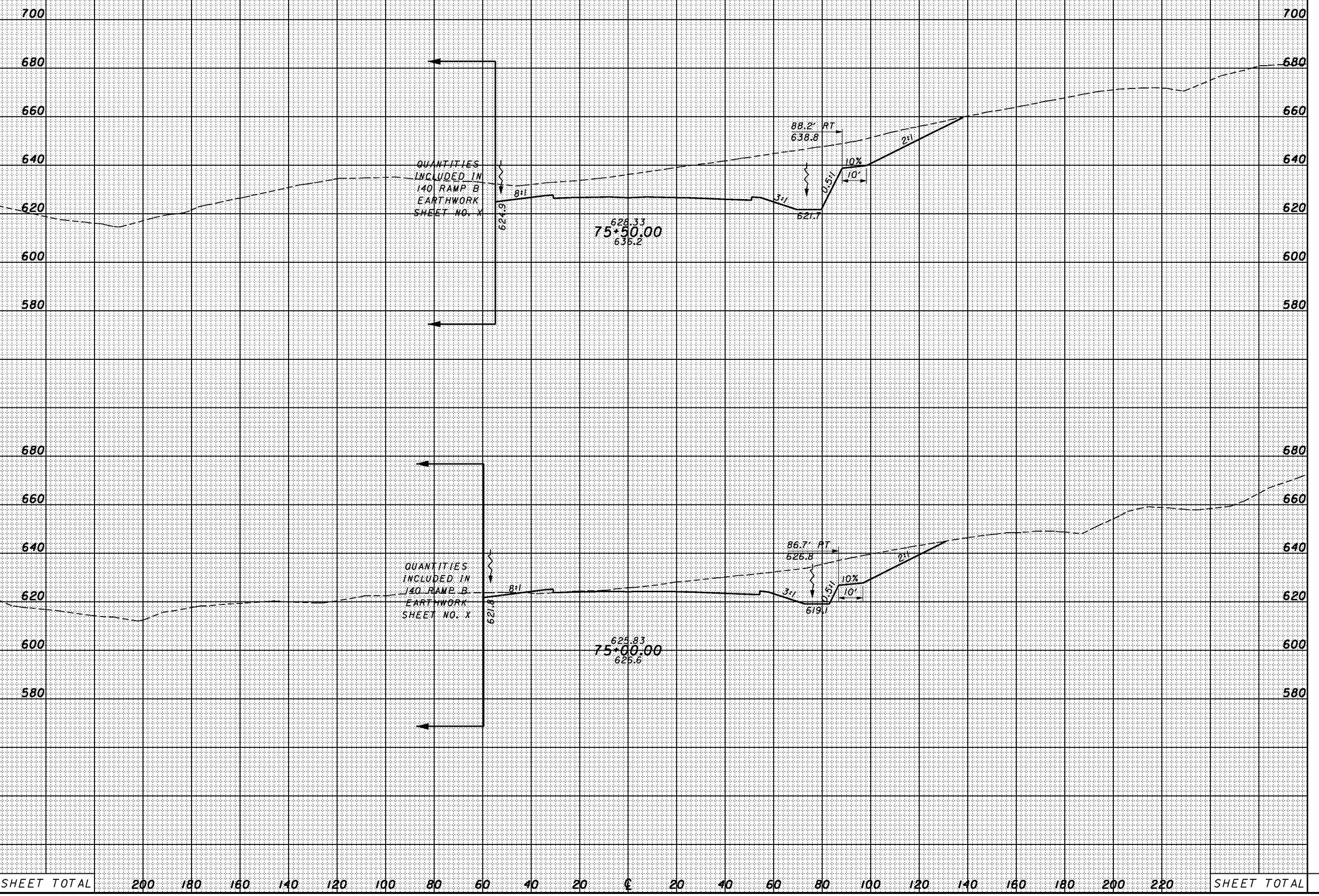
CROSS SECTIONS  
 SR823 - STA. 74+00.00 TO STA. 74+50.00

SCI-823-0.00

8:54:35 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SR823 - STA. 75+00.00 TO STA. 75+50.00

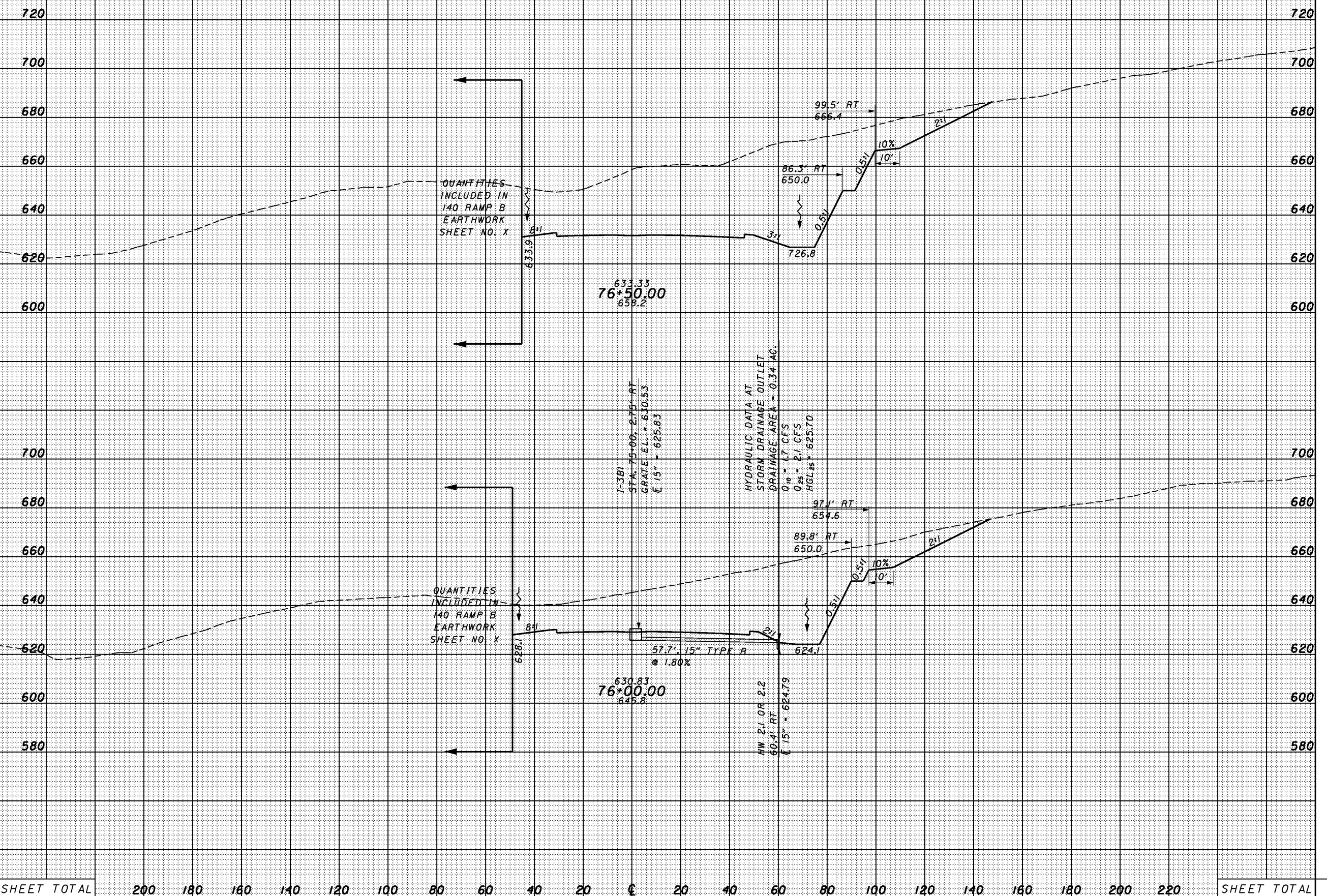
SCI-823-0.00

8:54:36 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 76+00.00 TO STA. 76+50.00

SCI-823-0.00

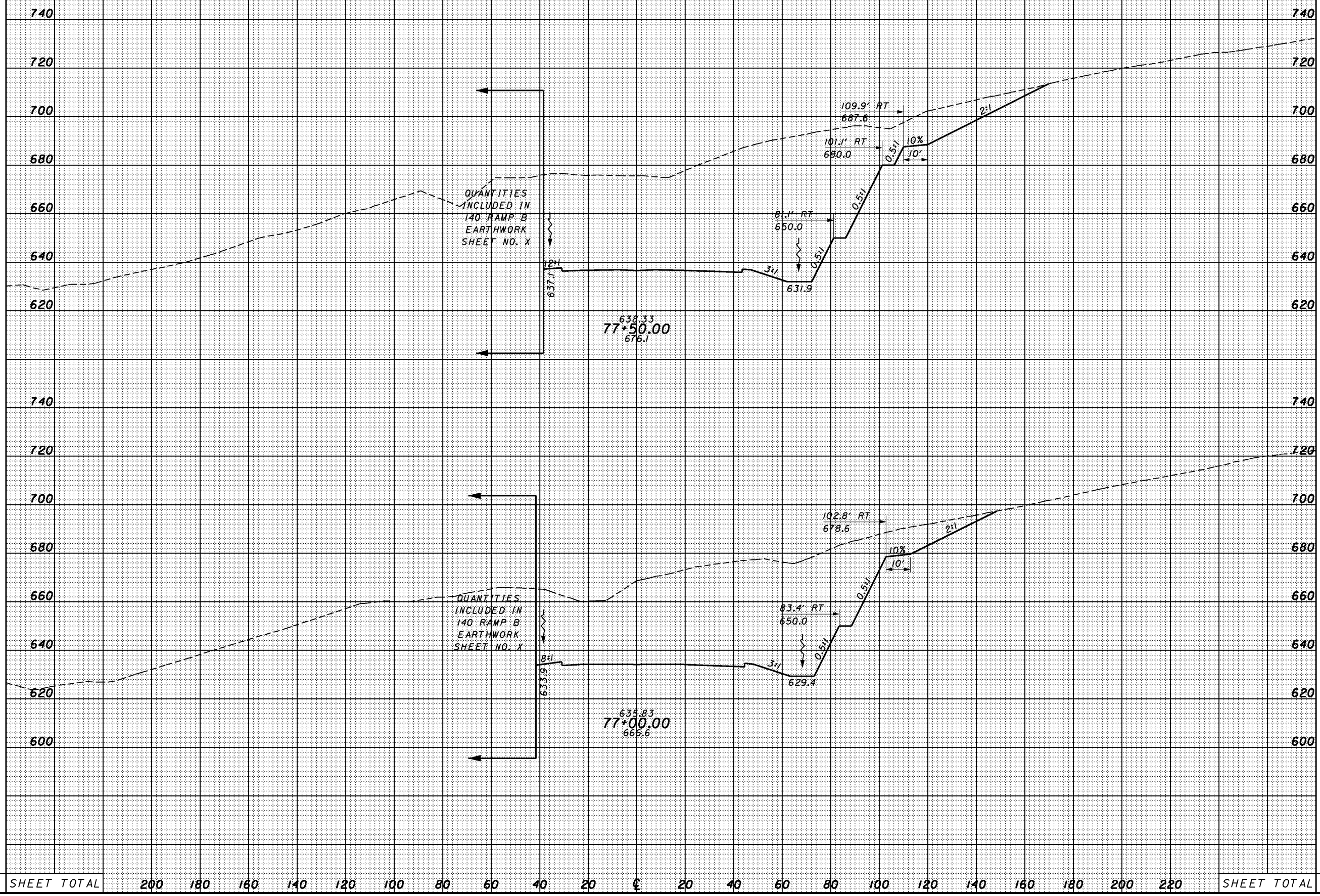
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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8:54:36 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823.dgn

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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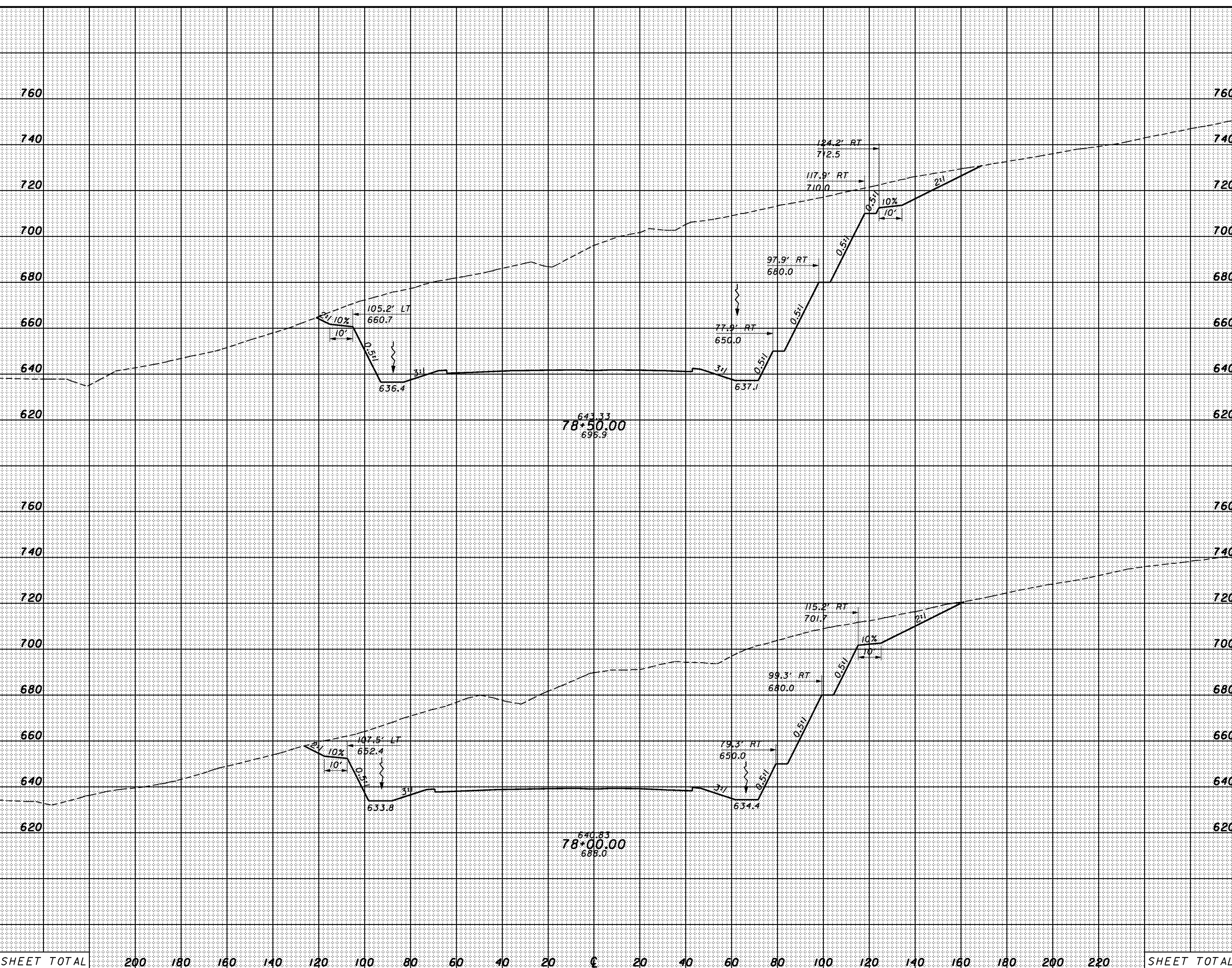
CROSS SECTIONS  
SR823 - STA. 77+00.00 TO STA. 77+50.00

SCI-823-0.00

8:54:37 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823.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. 78+00.00 TO STA. 78+50.00

SCI-823-0.00



8:54:39 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823.dgn

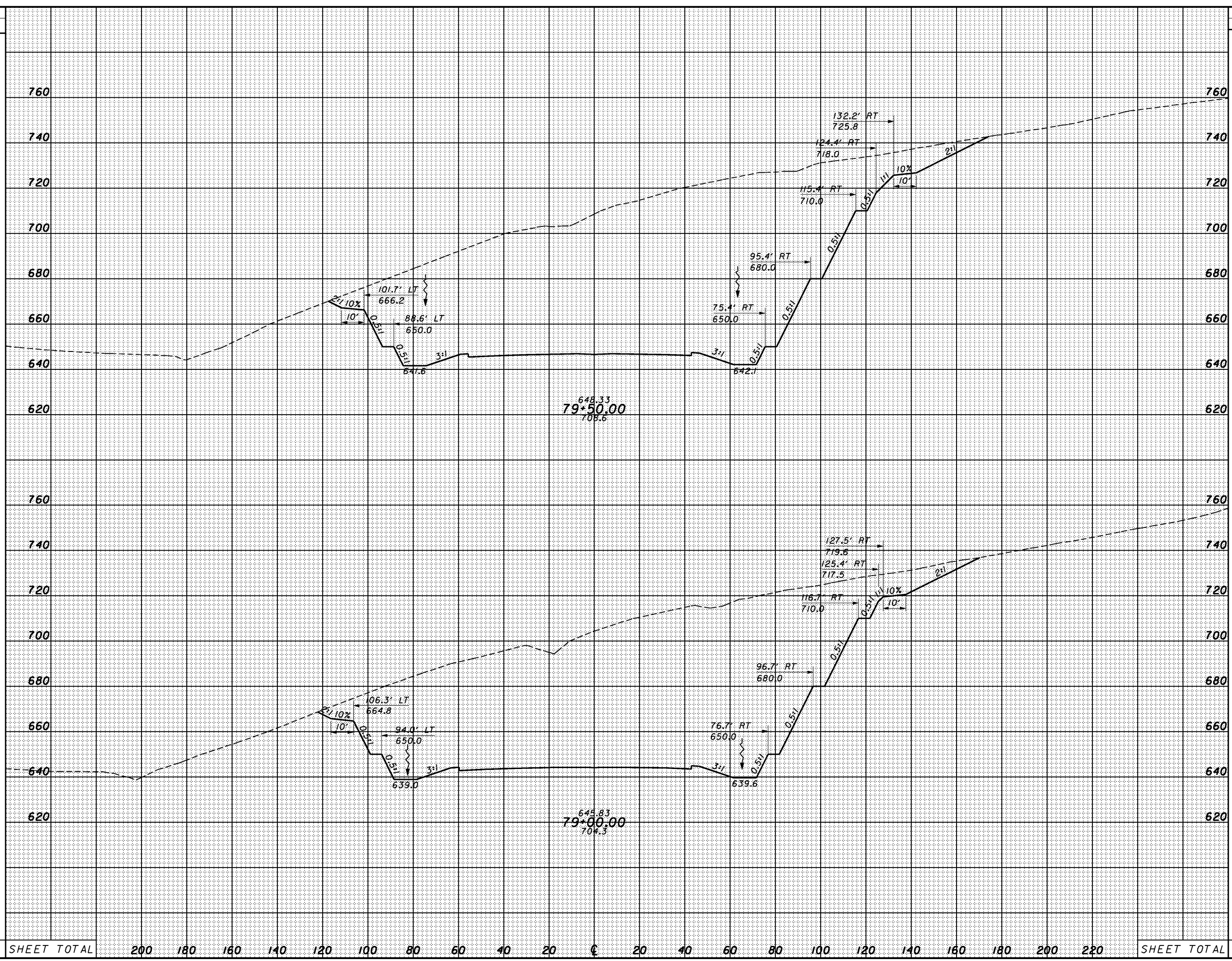
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 79+00.00 TO STA. 79+50.00

SCI-823-0.00



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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8:54:40 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823.dgn

SEEDING	
END WIDTH	SO. YDS.

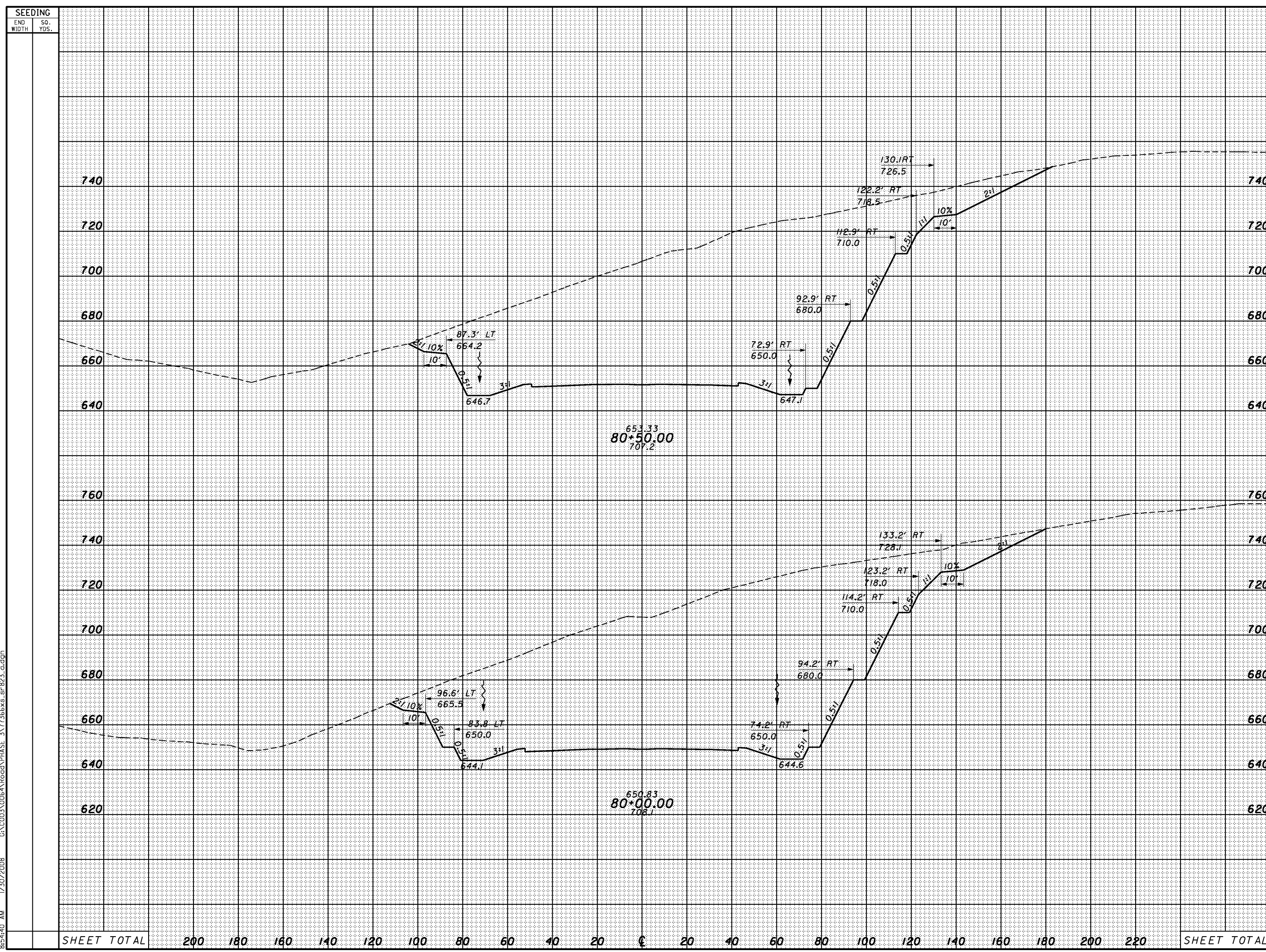
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 80+00.00 TO STA. 80+50.00

SCI-823-0.00

147

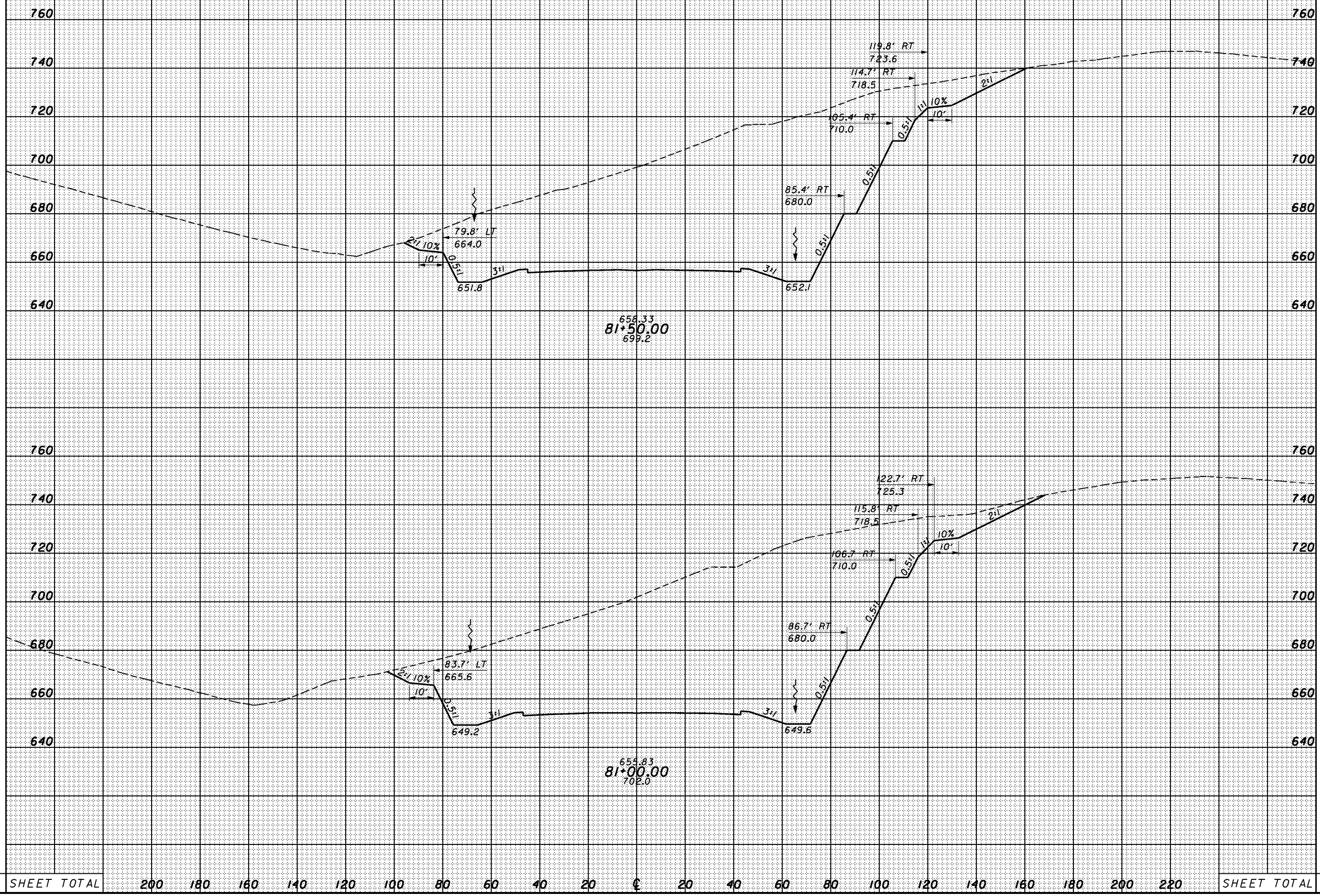


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823.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. 81+00.00 TO STA. 81+50.00

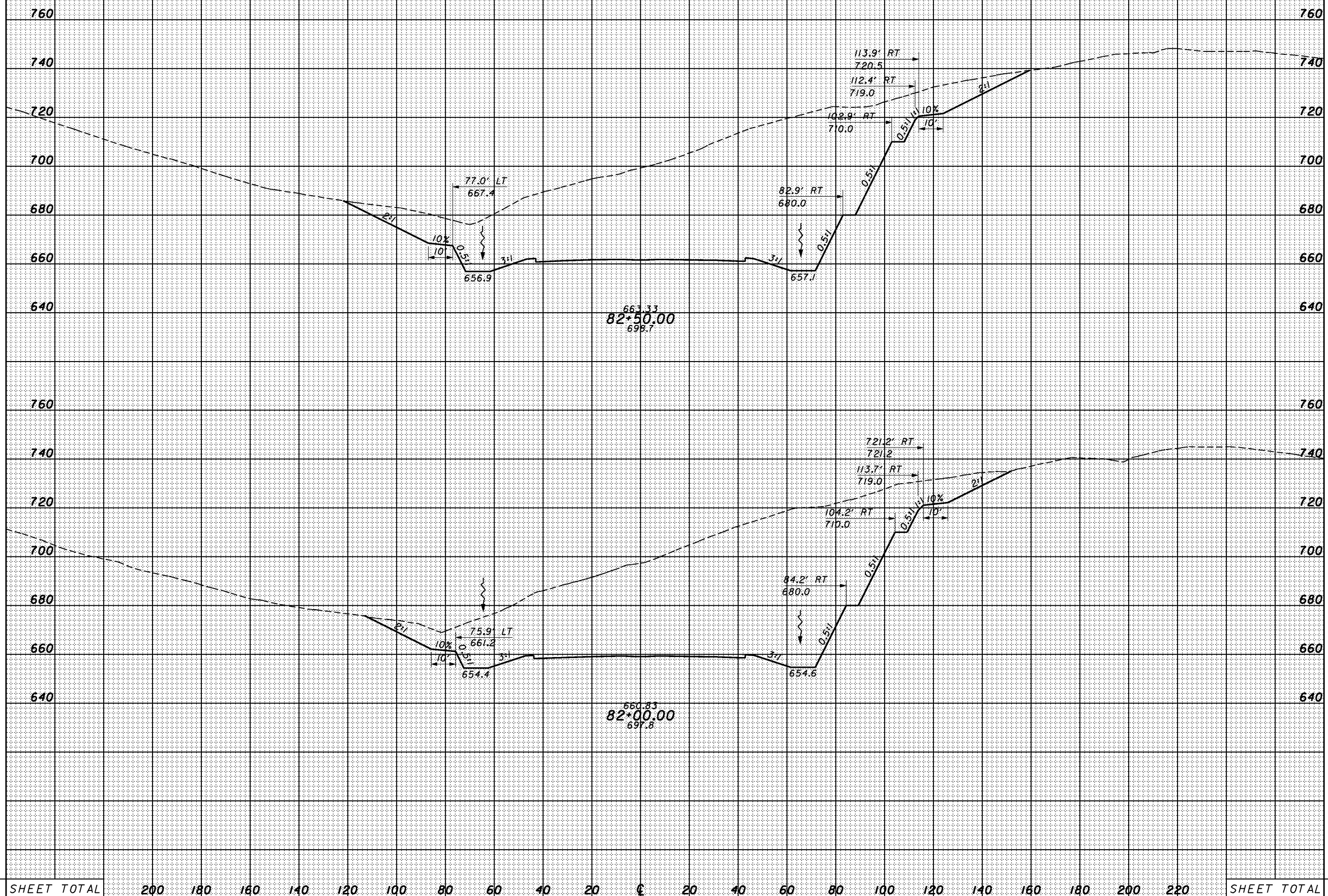
SCI-823-0.00



8/5/14 2:42 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13668s-sr-823.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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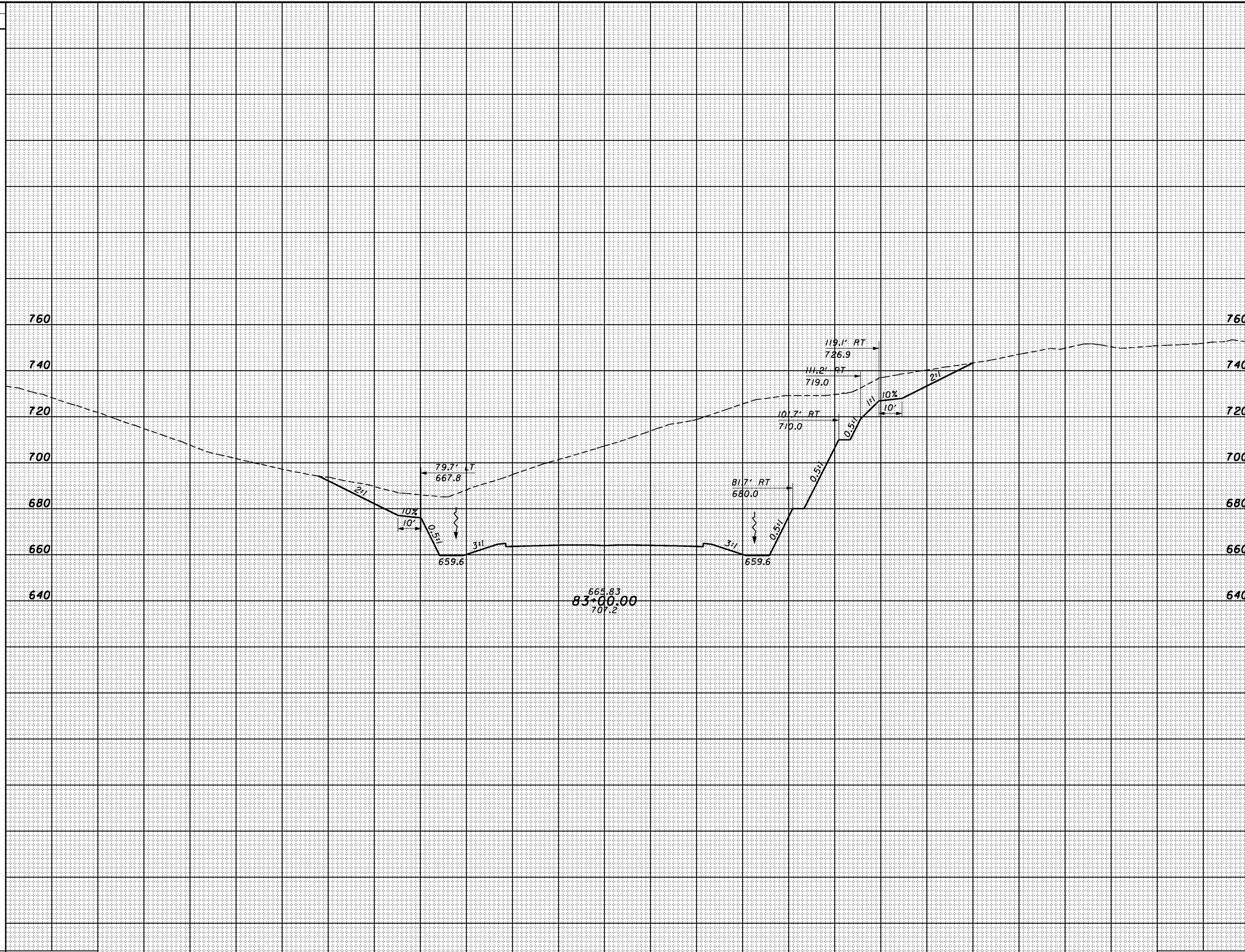
CROSS SECTIONS  
 SR823 - STA. 82+00.00 TO STA. 82+50.00

SCI-823-0.00

8:54:43 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823.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. 83+00.00



8:54:45 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_b.dgn

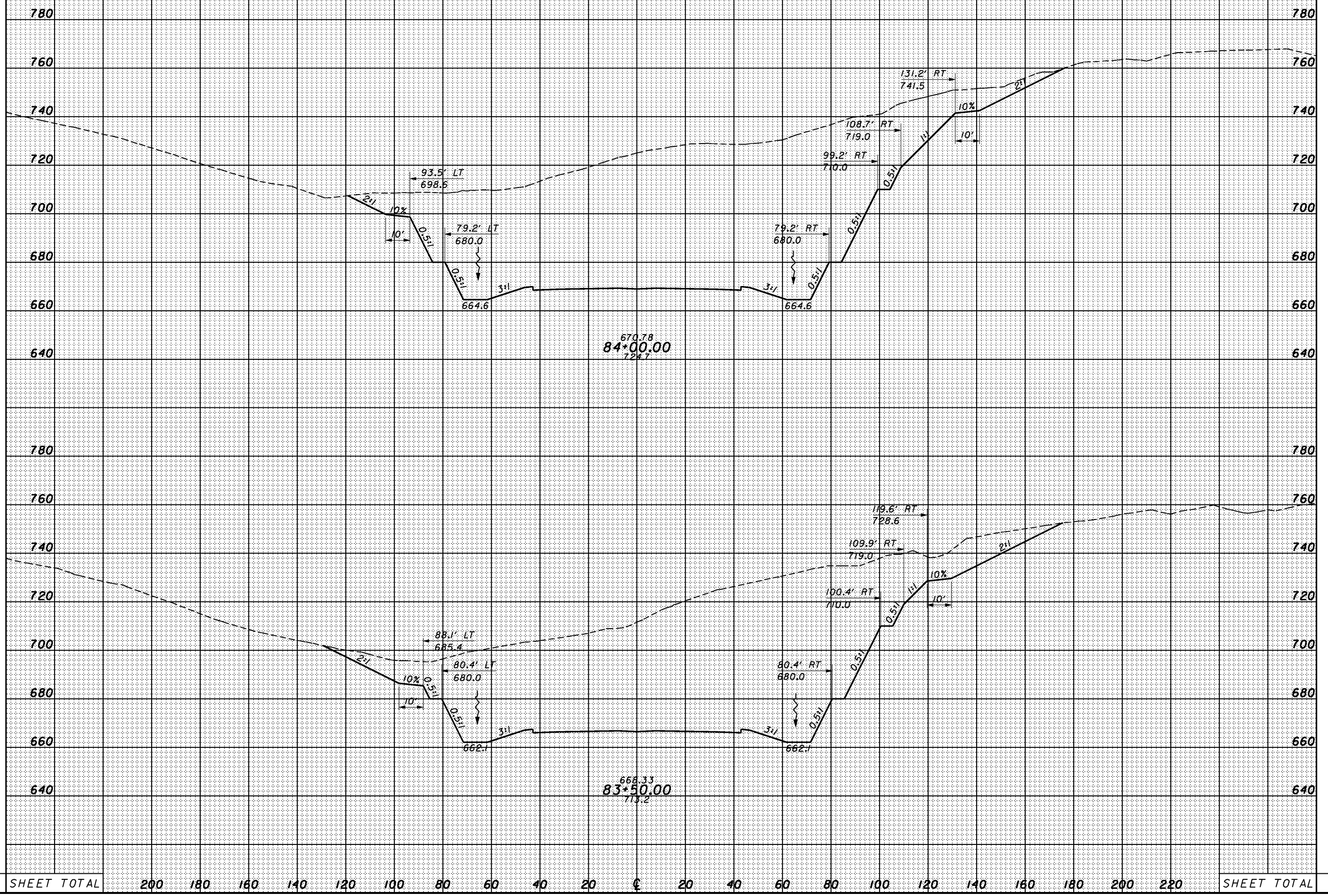
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 83+50.00 TO STA. 84+00.00

SCI-823-0.00

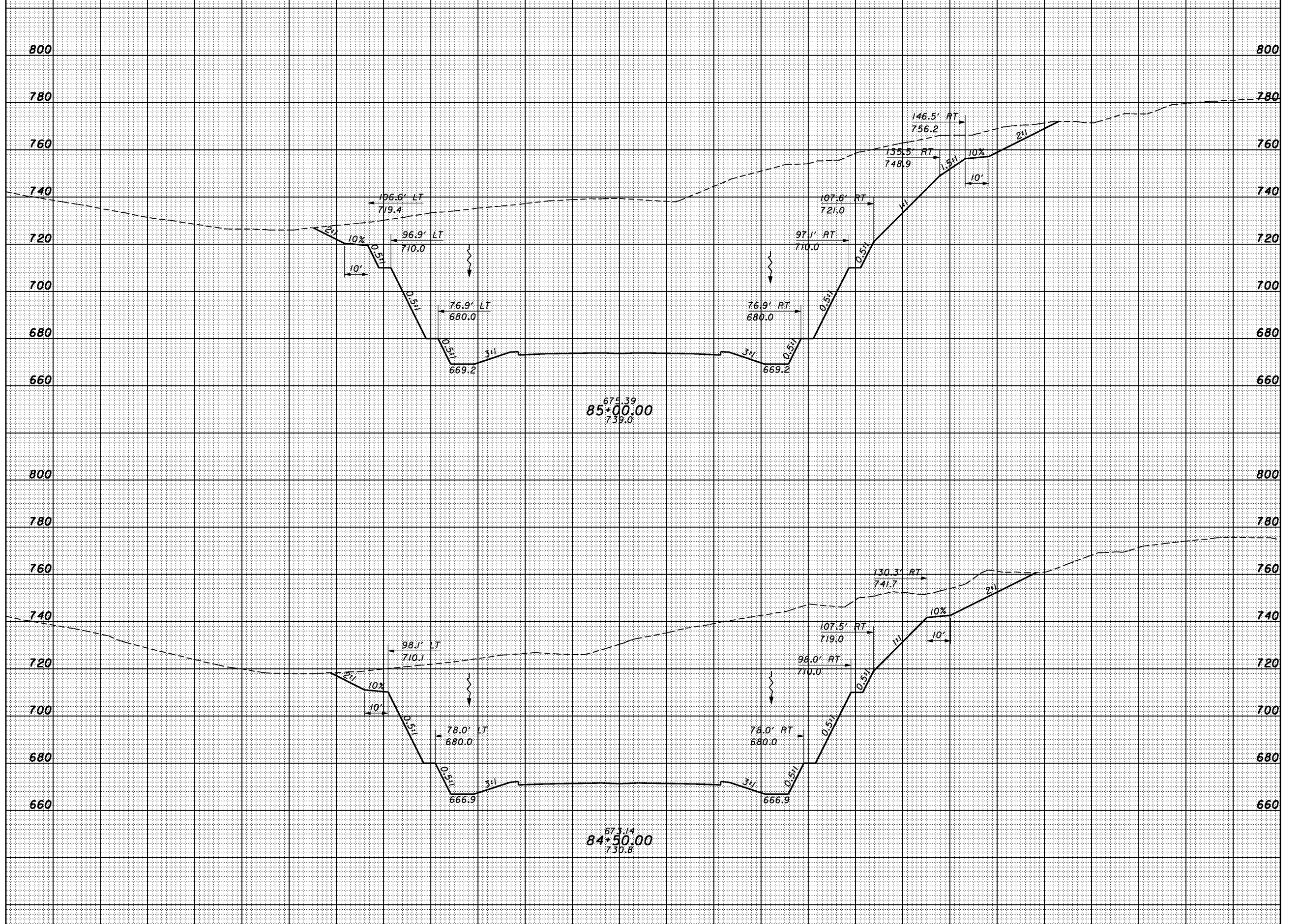


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8:54:46 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_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. 84+50.00 TO STA. 85+00.00  
 SCI-823-0.00

8:54:47 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823\_b.dgn

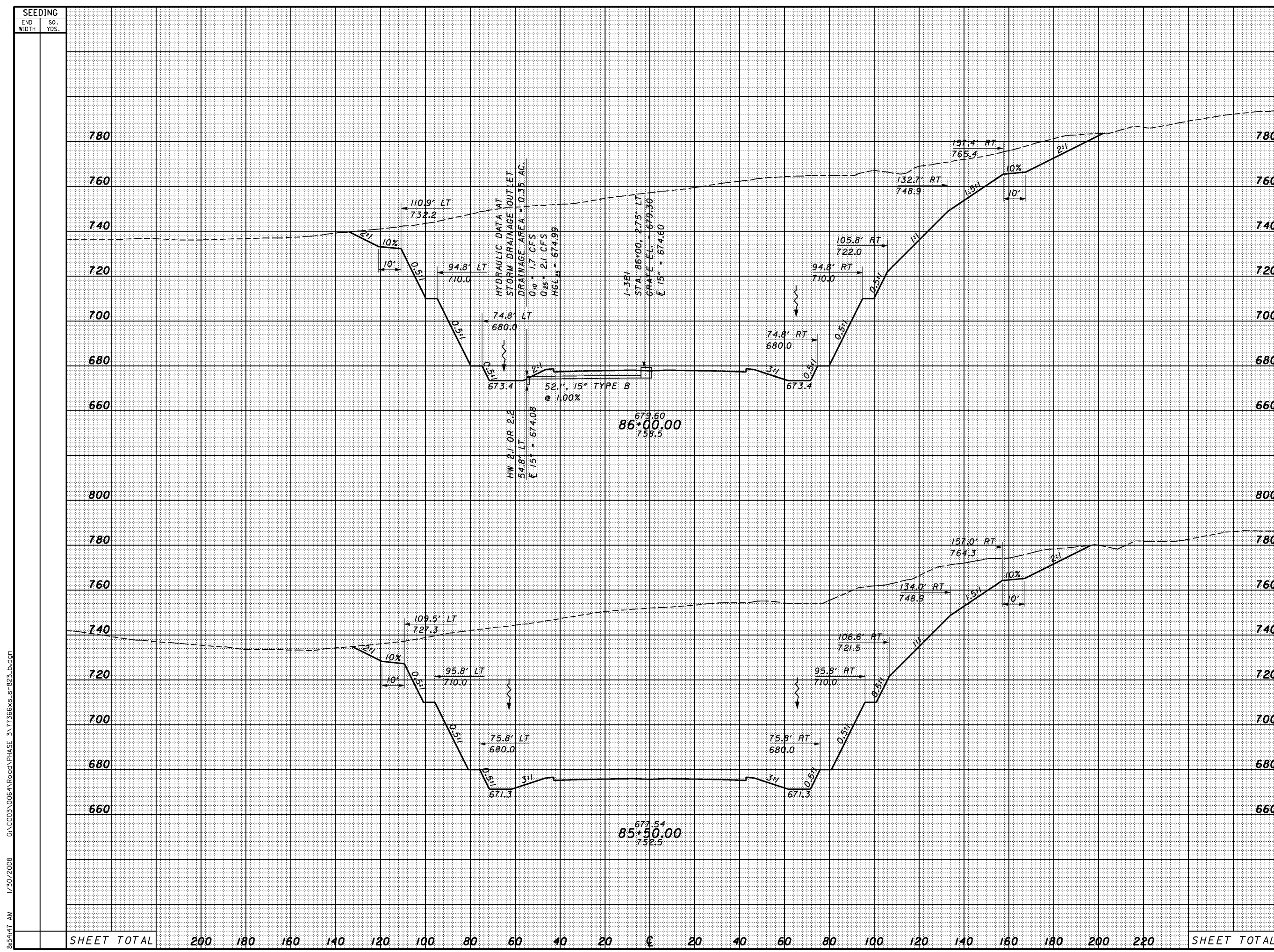
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 85+50.00 TO STA. 86+00.00

SCI-823-0.00



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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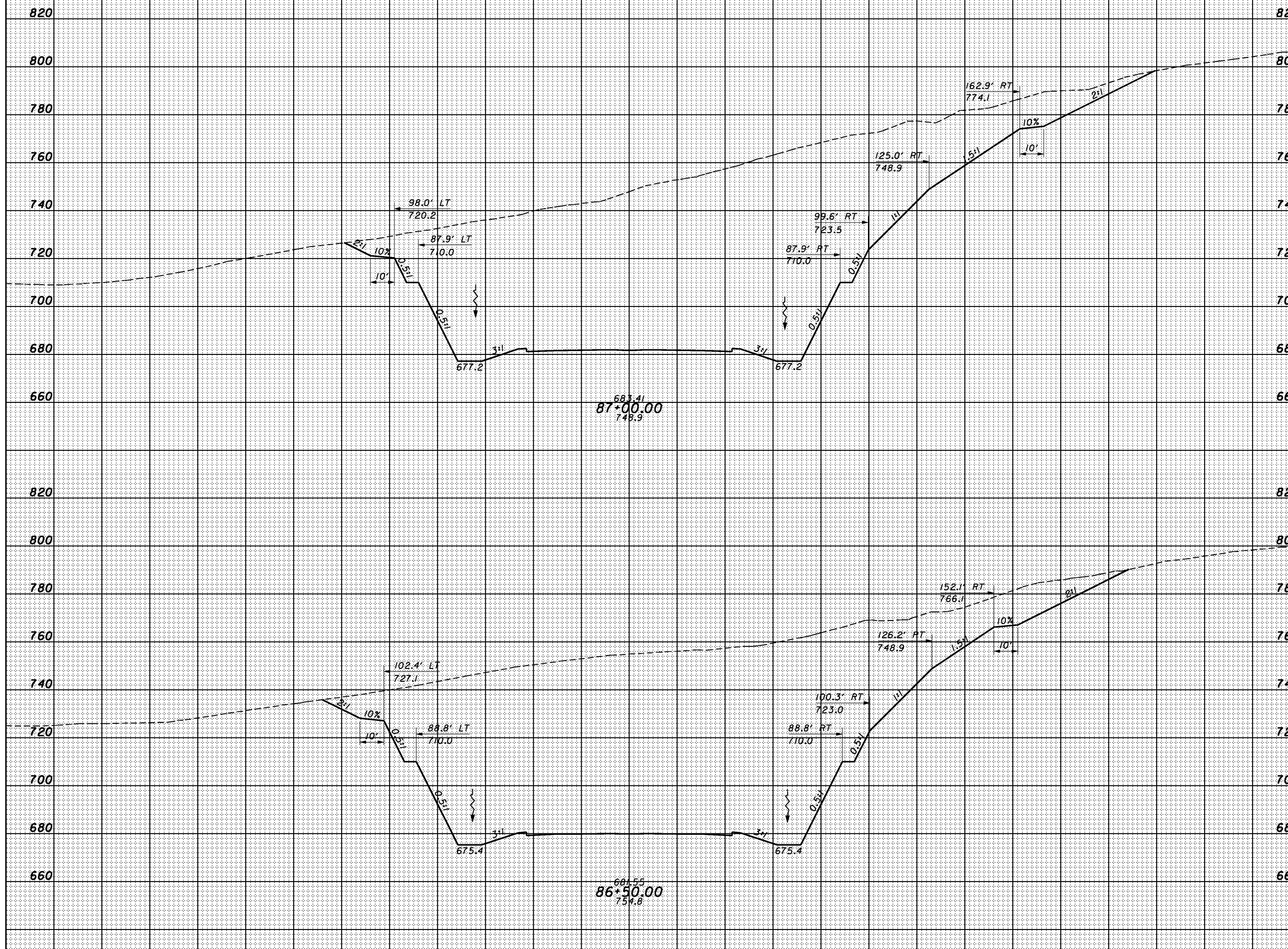
SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

820  
800  
780  
760  
740  
720  
700  
680  
660

820  
800  
780  
760  
740  
720  
700  
680  
660

8/5/14 8 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_b.dgn



87+00.00  
683.41  
749.9

86+50.00  
681.55  
754.8

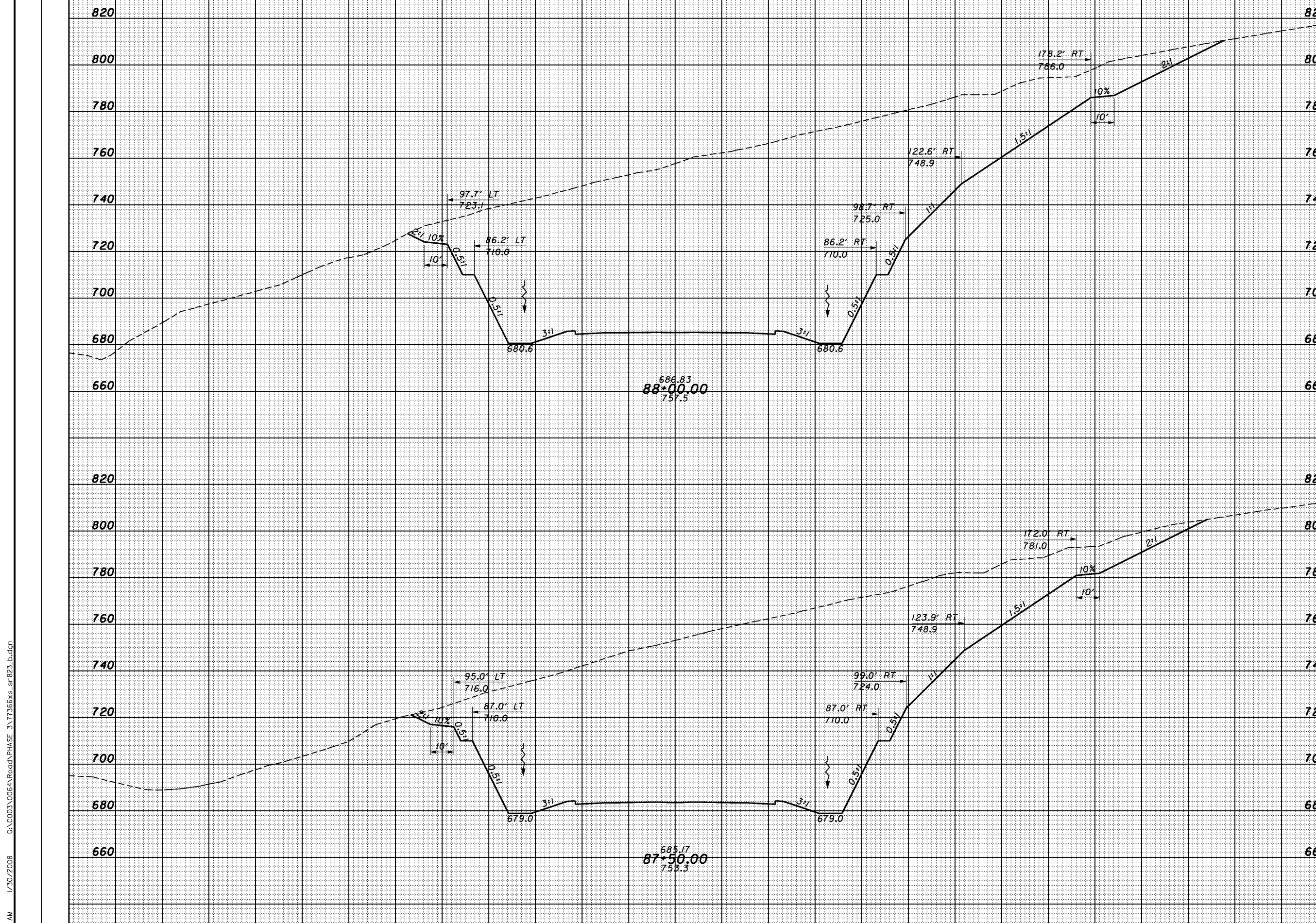
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 86+50.00 TO STA. 87+00.00

SCI-823-0.00

SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
88+00.00				
87+50.00				
SHEET TOTAL				

SR823 - STA. 87+50.00 TO STA. 88+00.00

SCI-823-0.00

8/5/14 9:49 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668x\_sr-823\_b.dgn

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



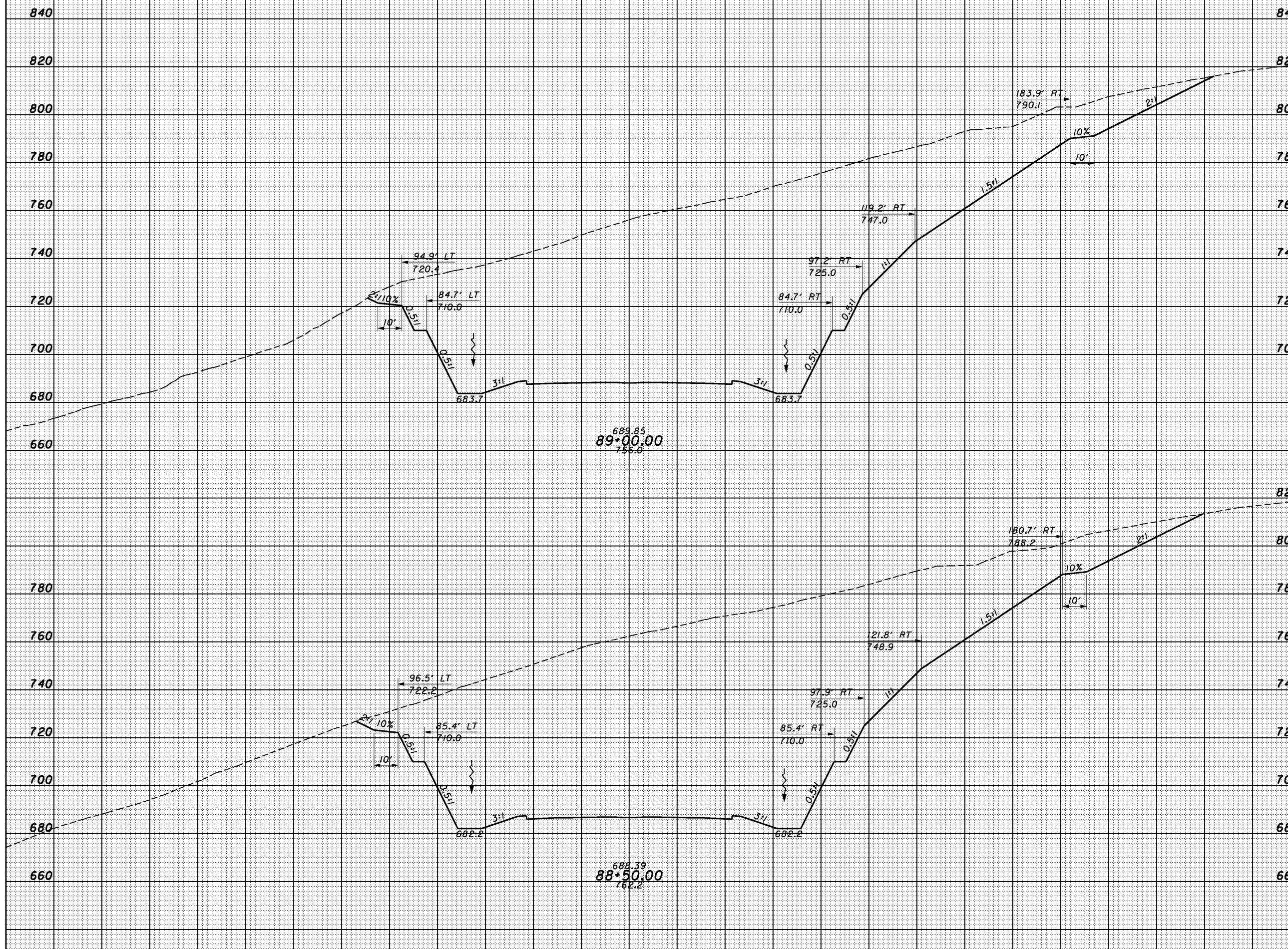
SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

840  
820  
800  
780  
760  
740  
720  
700  
680  
660

840  
820  
800  
780  
760  
740  
720  
700  
680  
660

8/5/150 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13668x-sr-823\_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. 88+50.00 TO STA. 89+00.00

SCI-823-0.00

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

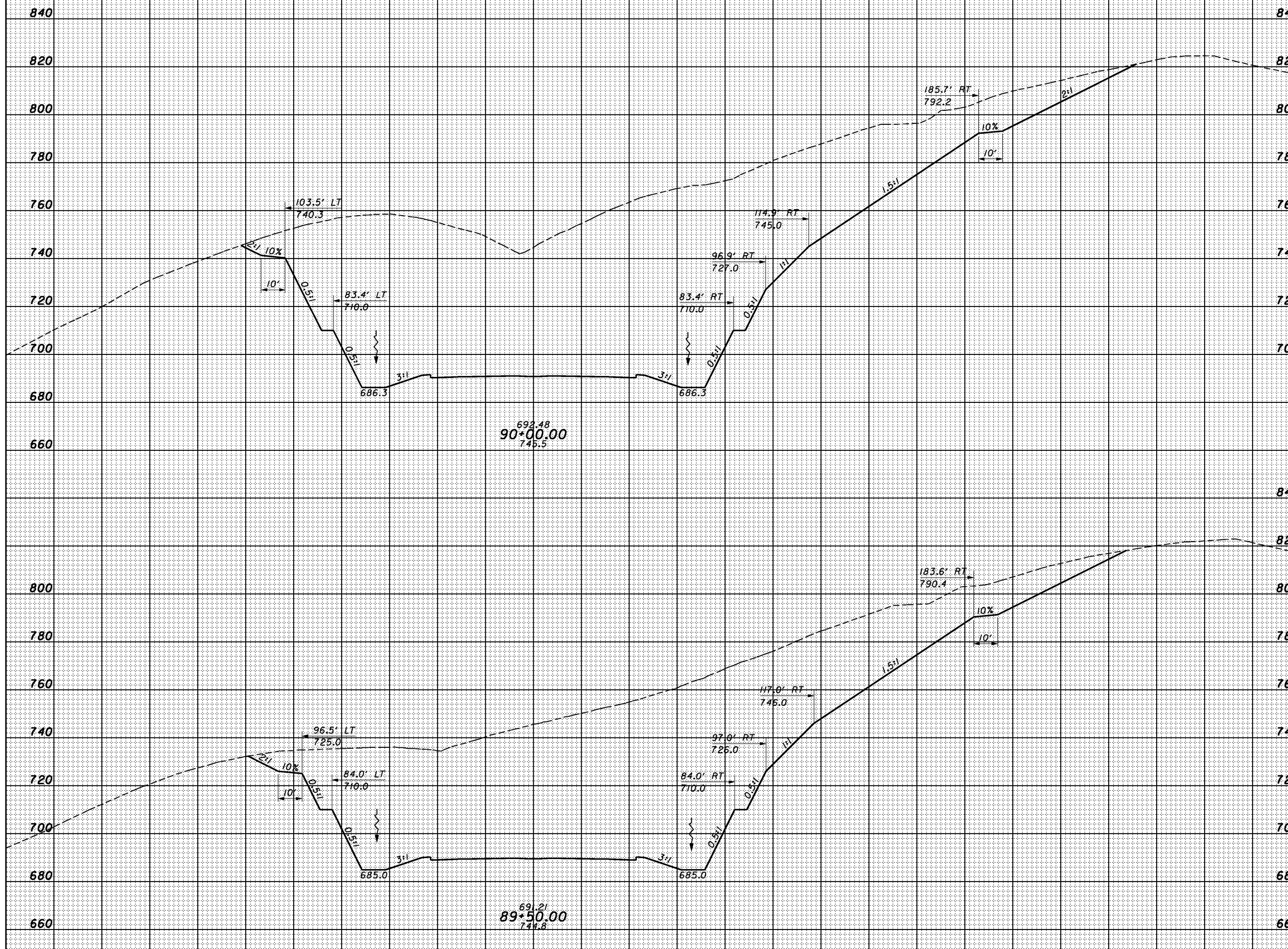
840  
820  
800  
780  
760  
740  
720  
700  
680  
660

840  
820  
800  
780  
760  
740  
720  
700  
680  
660

SHEET TOTAL

SHEET TOTAL

1/30/2008 G:\C003\0064\Road\PHASE 3\T13668xs-sr-823\_b.dgn



CROSS SECTIONS  
SR823 - STA. 89+50.00 TO STA. 90+00.00

SCI-823-0.00

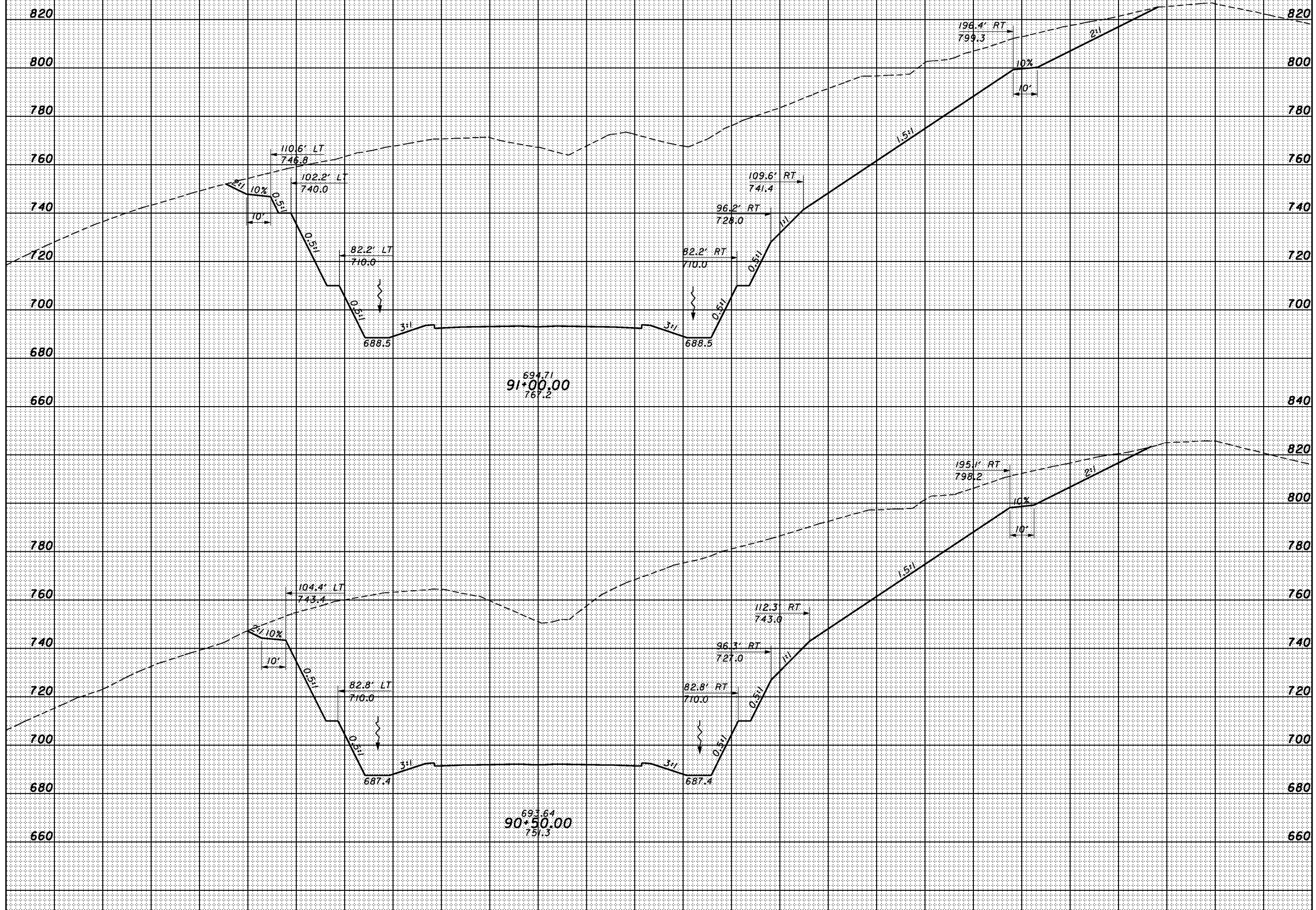
SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

840  
820  
800  
780  
760  
740  
720  
700  
680  
660

840  
820  
800  
780  
760  
740  
720  
700  
680  
660

8/5/2008 11:30/2008 G:\C003\0064\Road\PHASE\_3\T13668s-sr-823\_b.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

CROSS SECTIONS  
SR823 - STA. 90+50.00 TO STA. 91+00.00

SCI-823-0.00



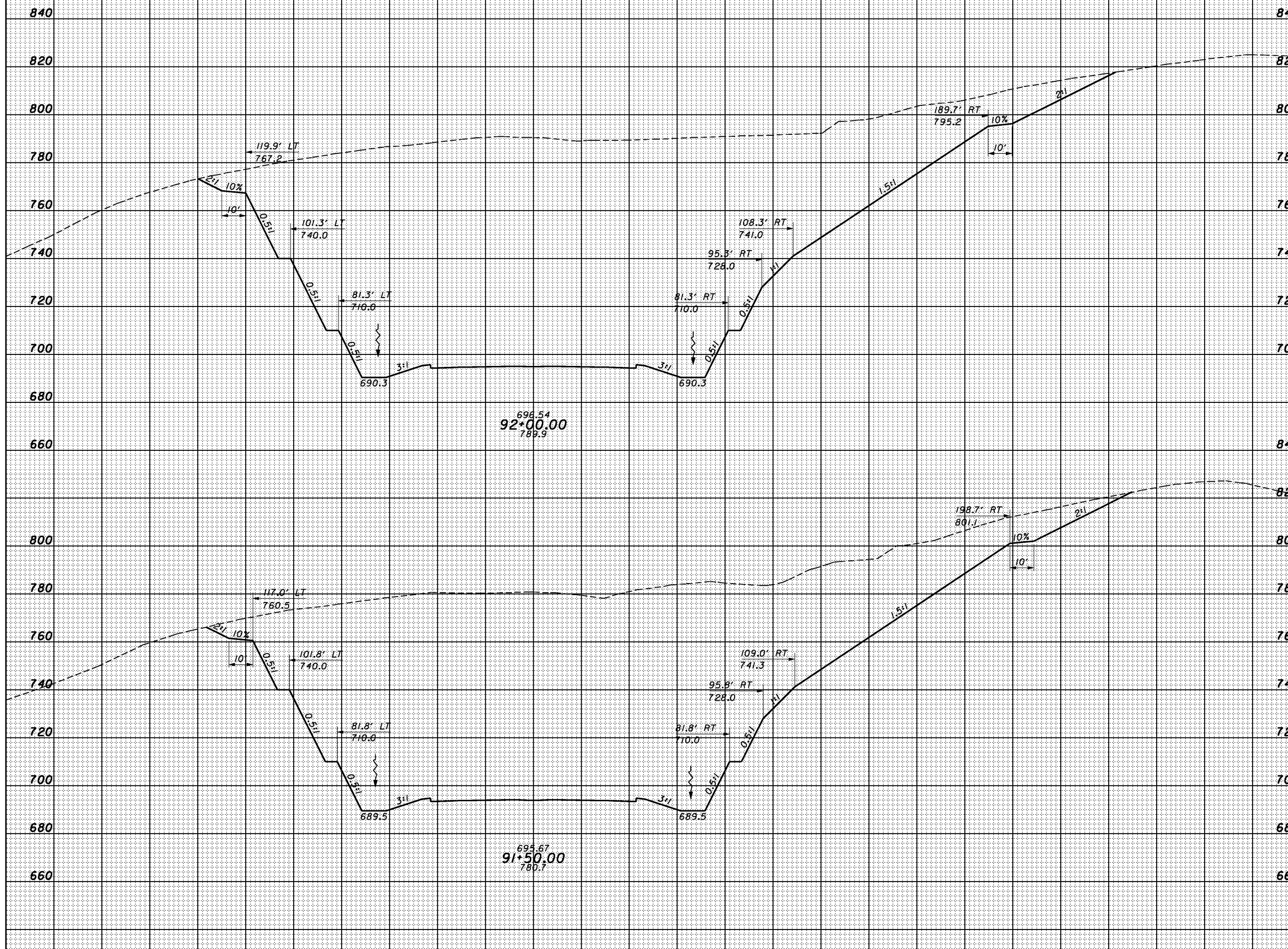
SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

840  
820  
800  
780  
760  
740  
720  
700  
680  
660

840  
820  
800  
780  
760  
740  
720  
700  
680  
660

8/5/2008 11:30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_b.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

CROSS SECTIONS  
SR823 - STA. 91+50.00 TO STA. 92+00.00

SCI-823-0.00

8:54:55 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366&s-sr-823\_b.dgn

SEEDING	
END WIDTH	SO. YDS.

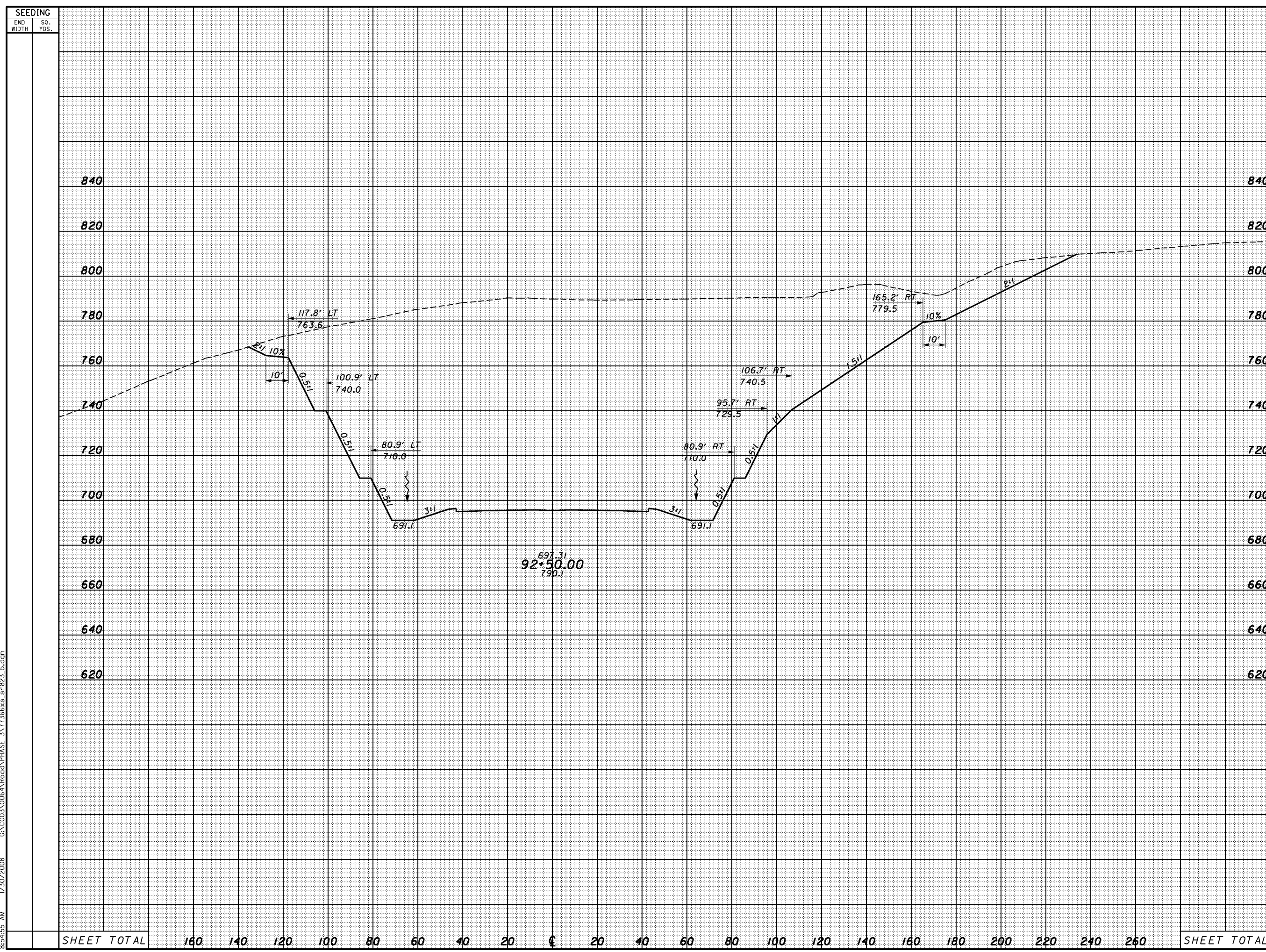
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 92+50.00

SCI-823-0.00

160



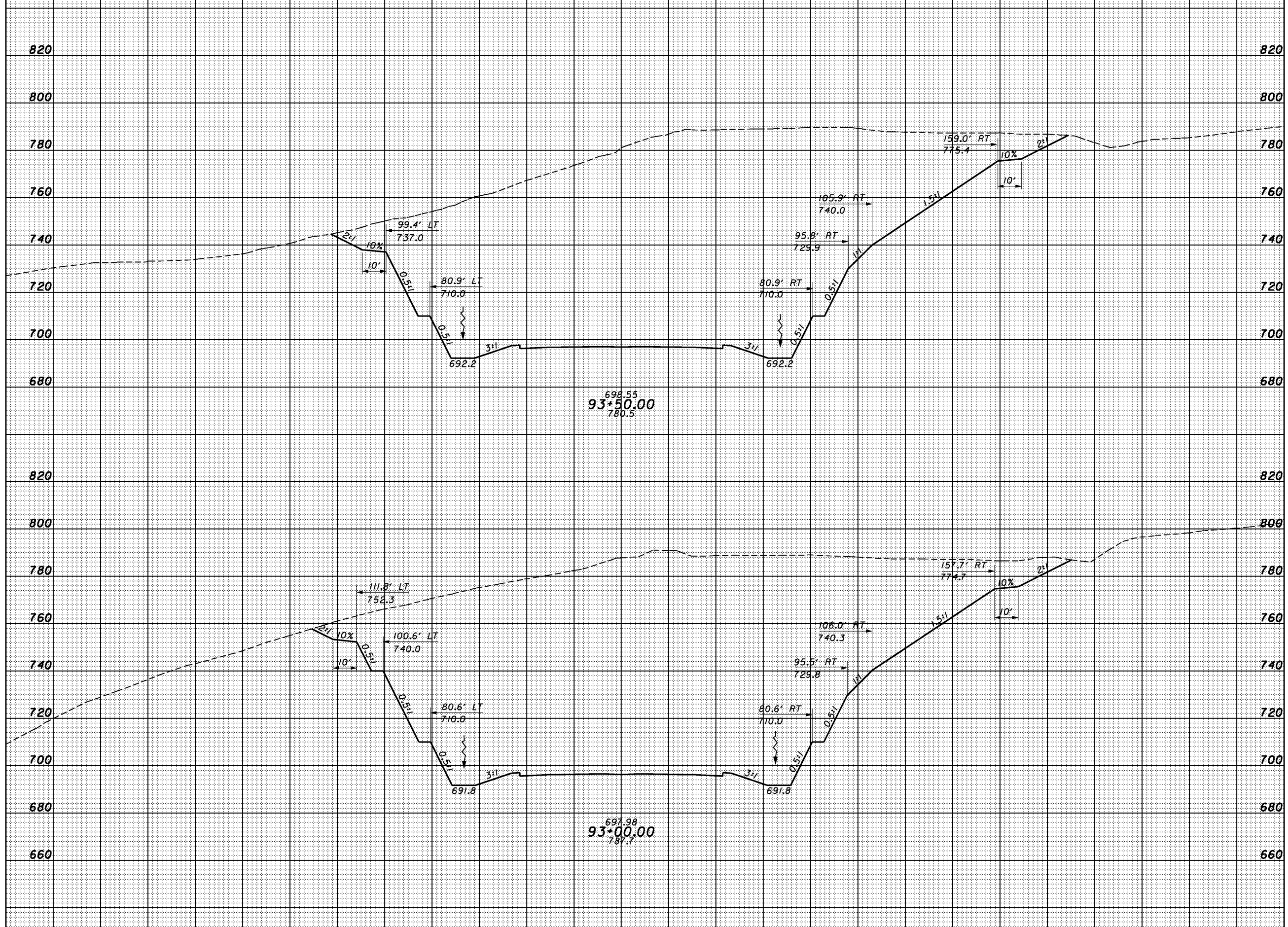
STATION	END AREA		VOLUME																				
	CUT	FILL	CUT	FILL																			
840																							
820																							
800																							
780																							
760																							
740																							
720																							
700																							
680																							
660																							
640																							
620																							
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



SEEDING  
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

8/5/156 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_b.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

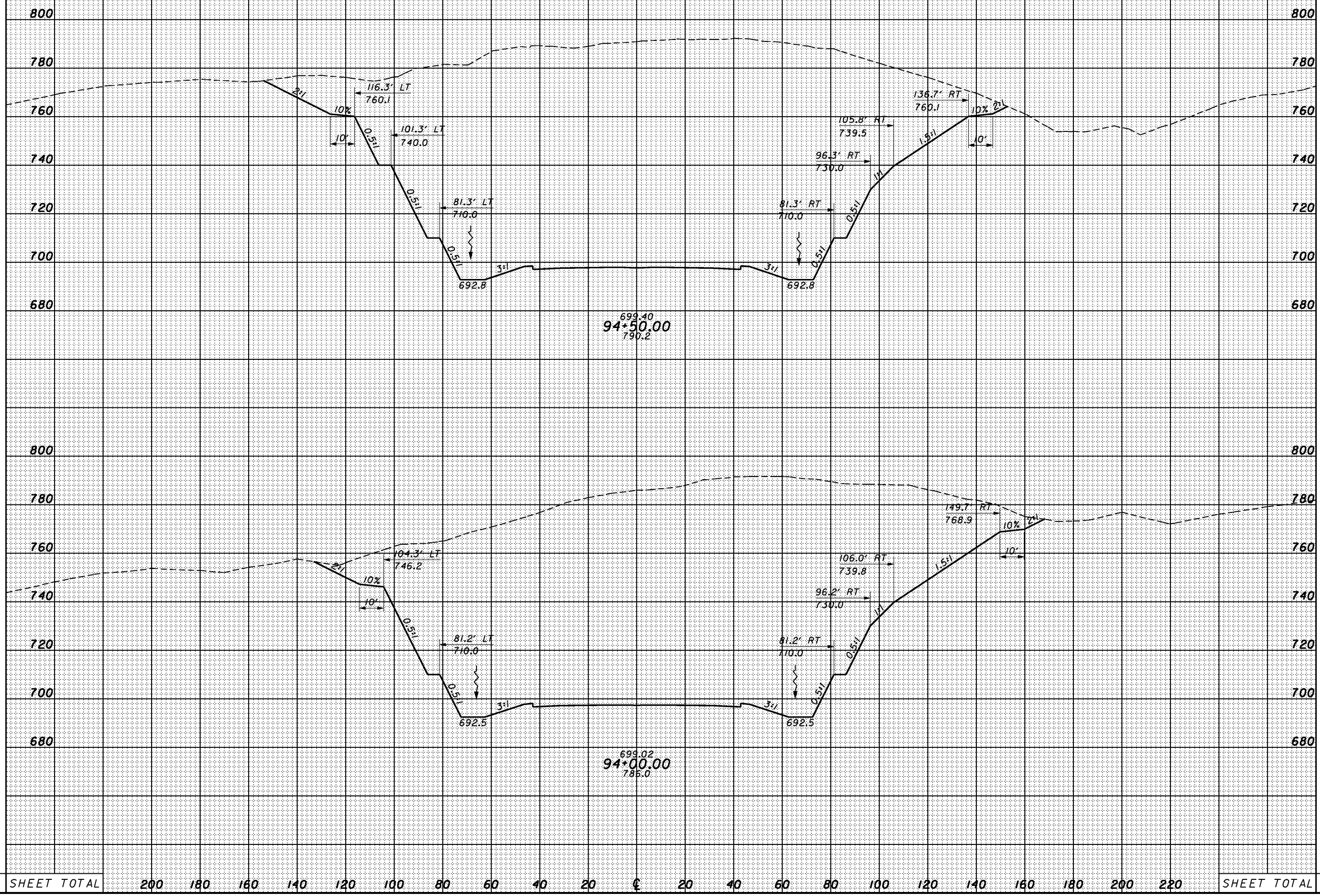
SR823 - STA. 93+00.00 TO STA. 93+50.00

SCI-823-0.00

SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

1/30/2008 g:\C003\0064\Road\PHASE\_3\171366xk\_s-r823\_b.dgn



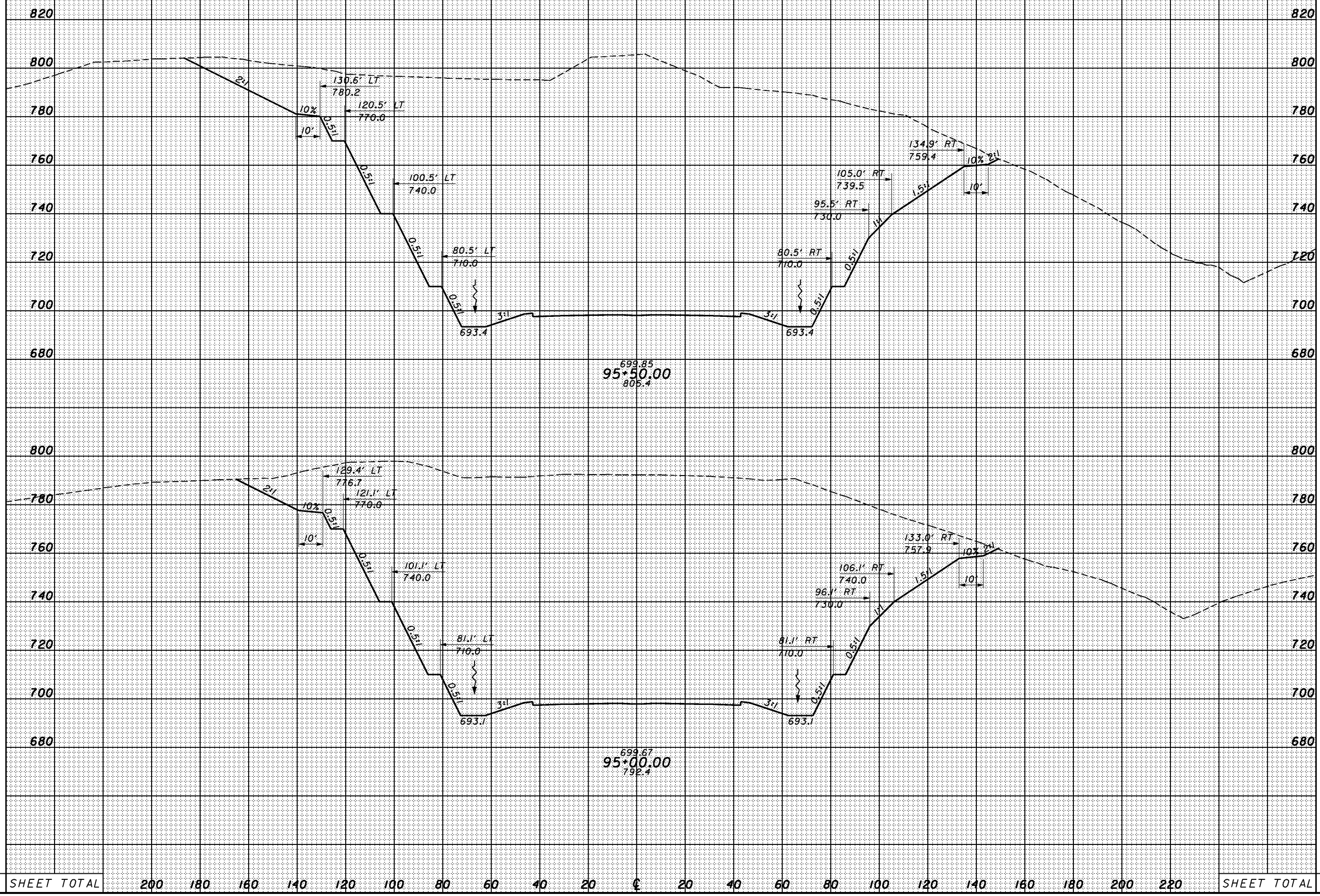
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 94+00.00 TO STA. 94+50.00  
SCI-823-0.00

SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8:54:58 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_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

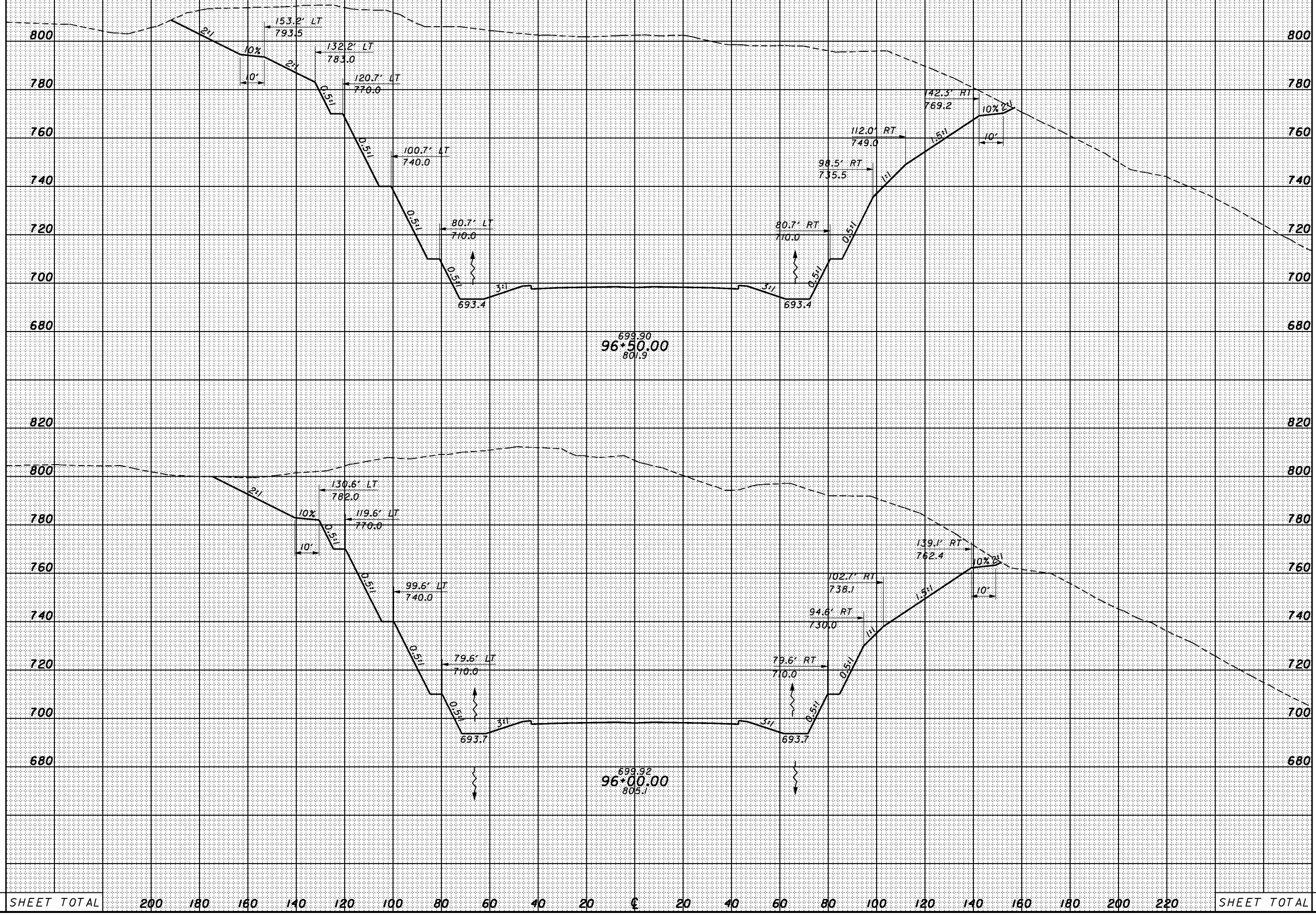
CROSS SECTIONS  
SR823 - STA. 95+00.00 TO STA. 95+50.00  
SCI-823-0.00



SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8:54:59 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\173666xs-sr-823\_b.dgn

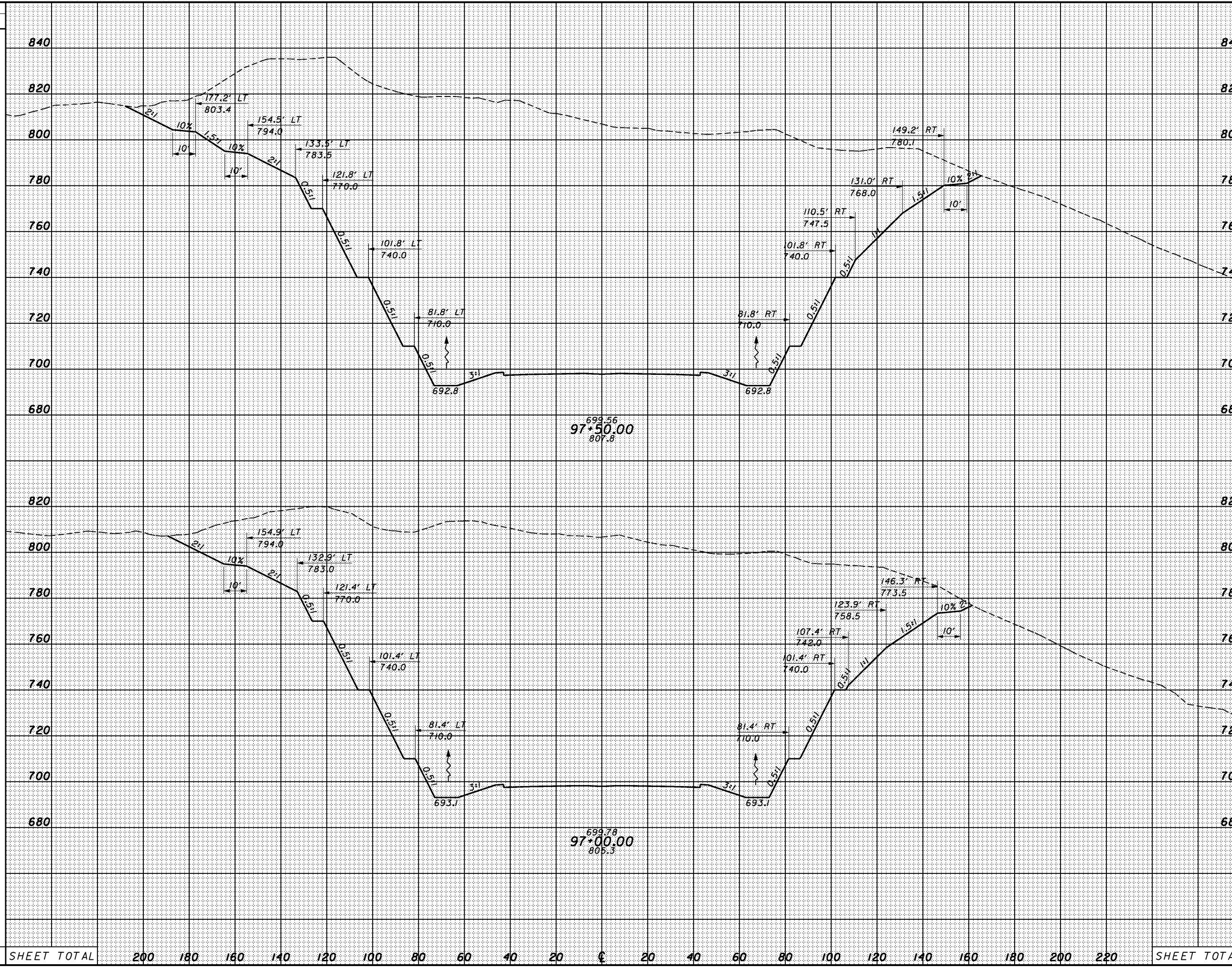


SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS  
 SR823 - STA. 96+00.00 TO STA. 96+50.00

SCI-823-0.00

SEEDING  
 END WIDTH SO. YDS.  
 840  
820  
800  
780  
760  
740  
720  
700  
680  
 840  
820  
800  
780  
760  
740  
720  
700  
680  
 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



END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

CROSS SECTIONS  
 SR823 - STA. 97+00.00 TO STA. 97+50.00

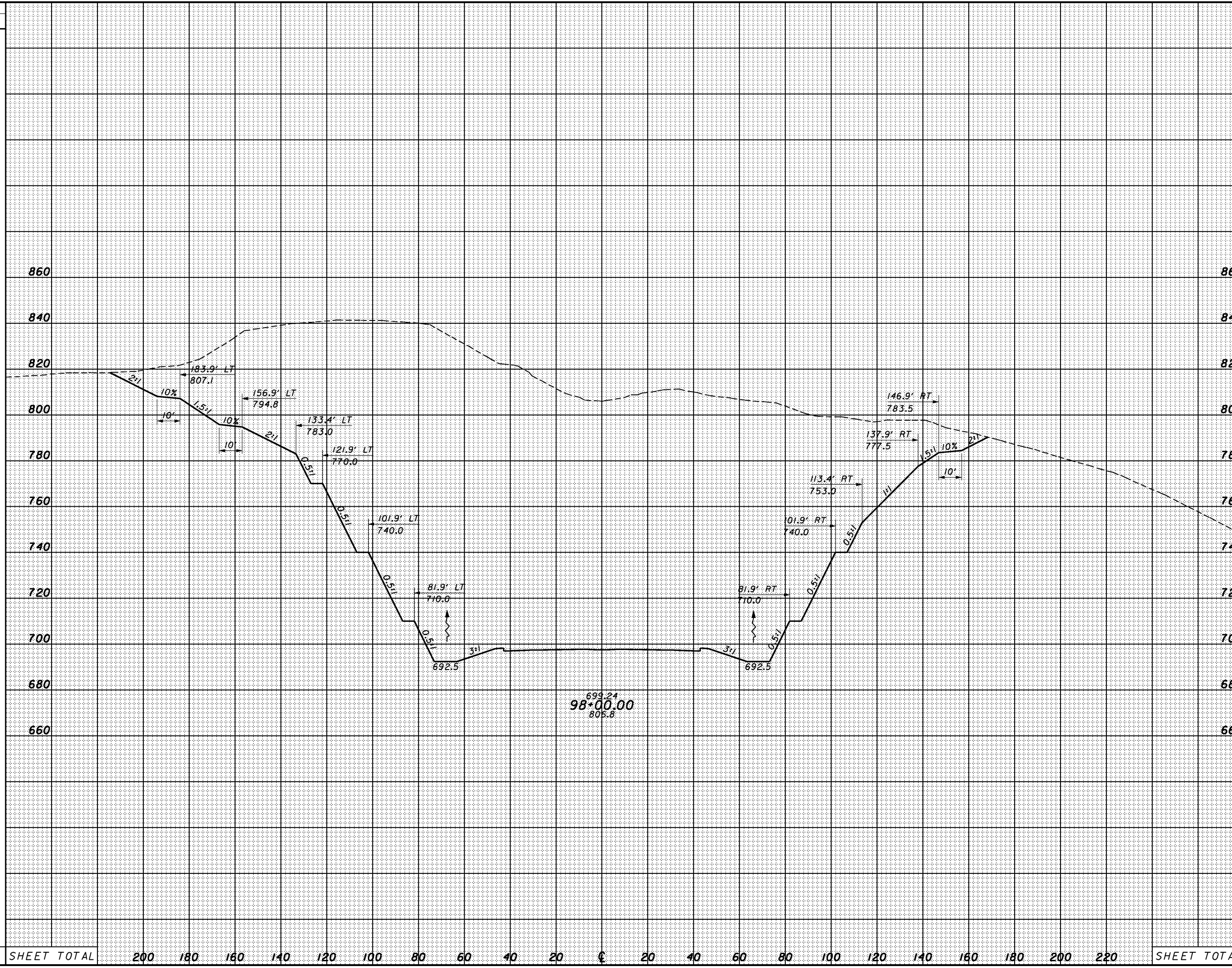
SCI-823-0.00



SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8:55:01 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823\_b.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

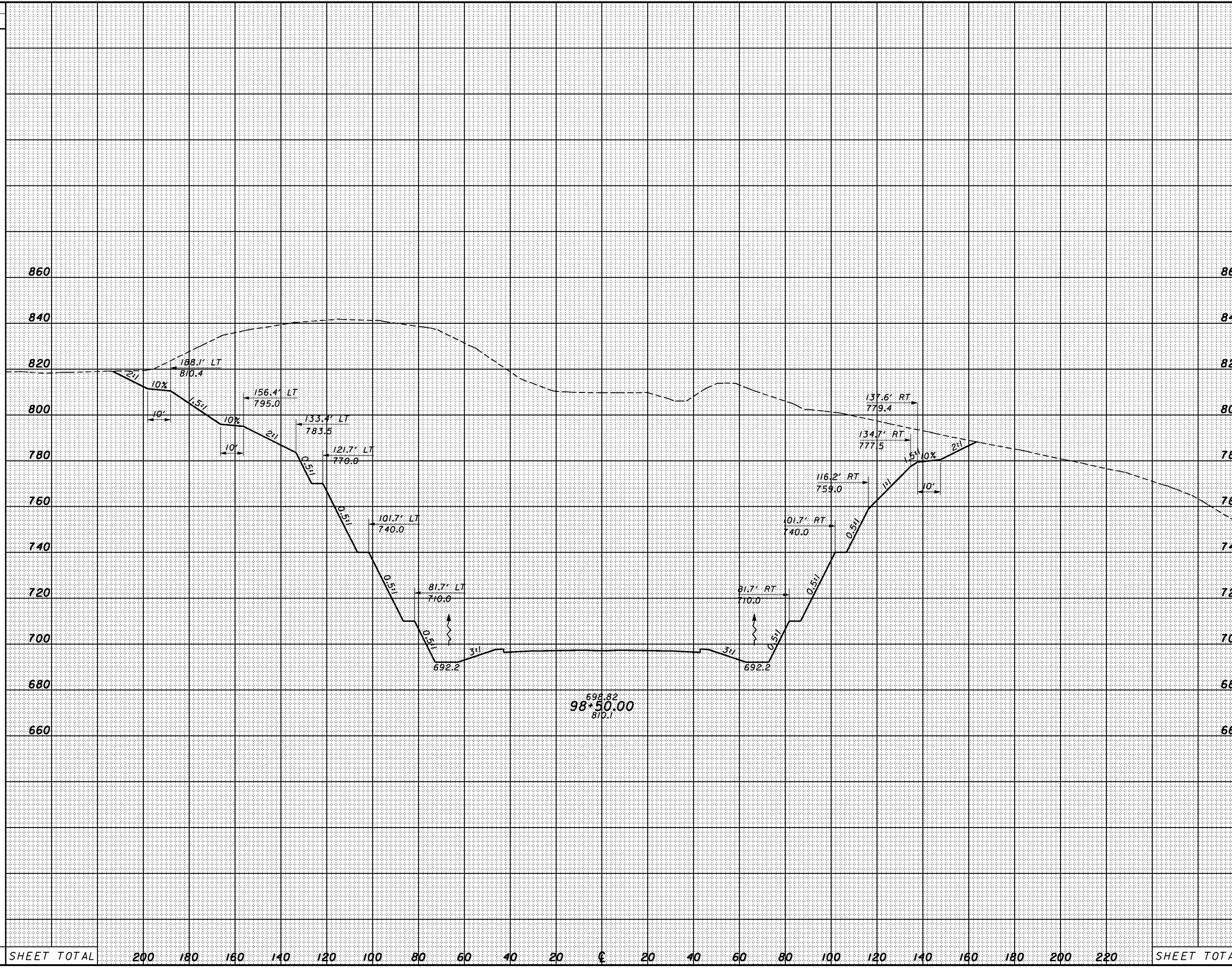
CROSS SECTIONS  
SR823 - STA. 98+00.00

SCI-823-0.00

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8/5/2008 11:30/2008 G:\C003\0064\Road\PHASE 3\T13666xs-sr-823\_b.dgn



CROSS SECTIONS  
SR823 - STA. 98+50.00

SCI-823-0.00

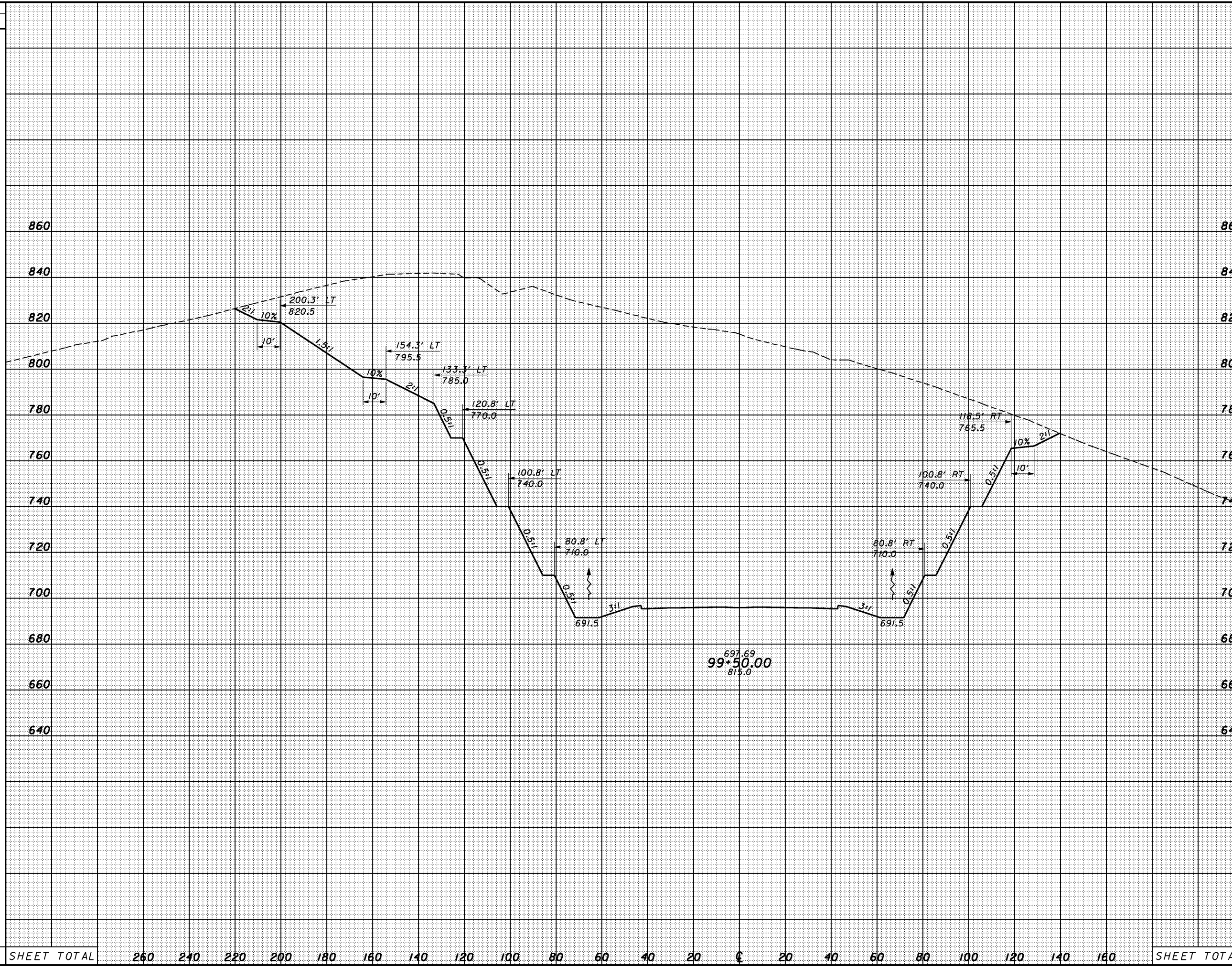




SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8/5/2003 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_b.dgn



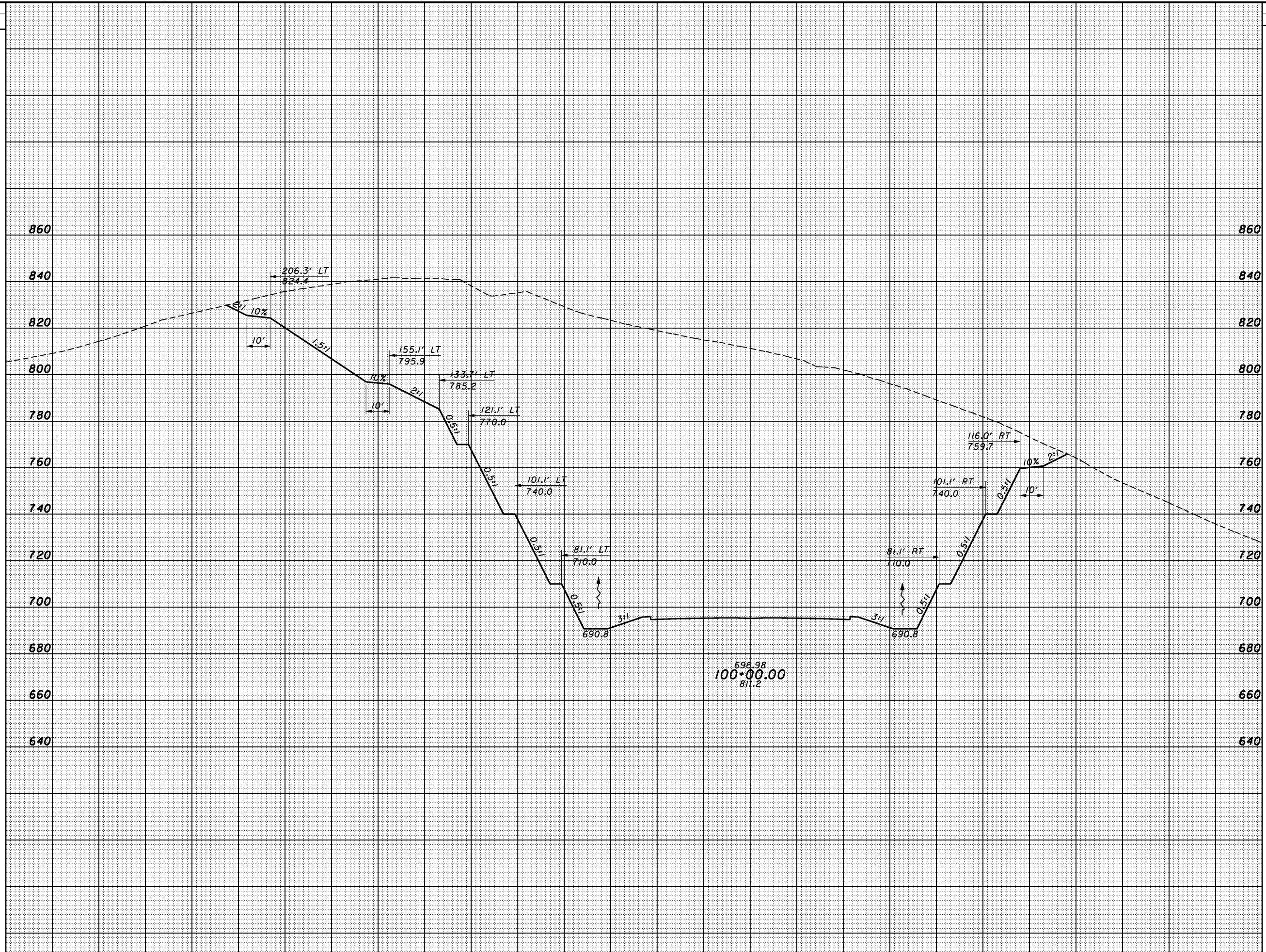
CROSS SECTIONS  
SR823 - STA. 99+50.00

SCI-823-0.00

8/5/04 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13668x-sr-823\_b.dgn

SEEDING	
END WIDTH	SO. 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
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CROSS SECTIONS  
SR823 - STA. 100+00.00

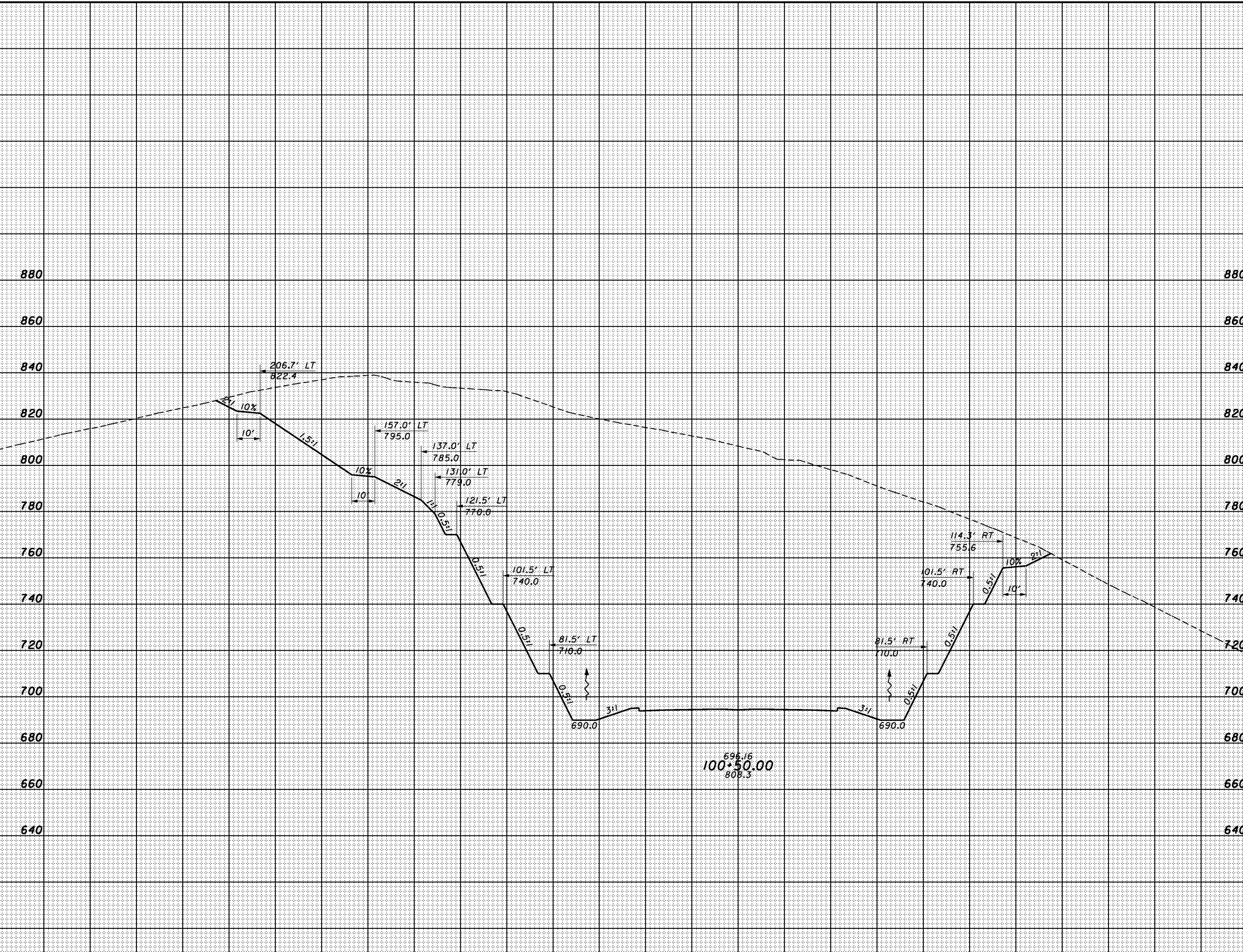
SCI-823-0.00



8/5/05 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_b.dgn

SEEDING	
END WIDTH	SO. 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
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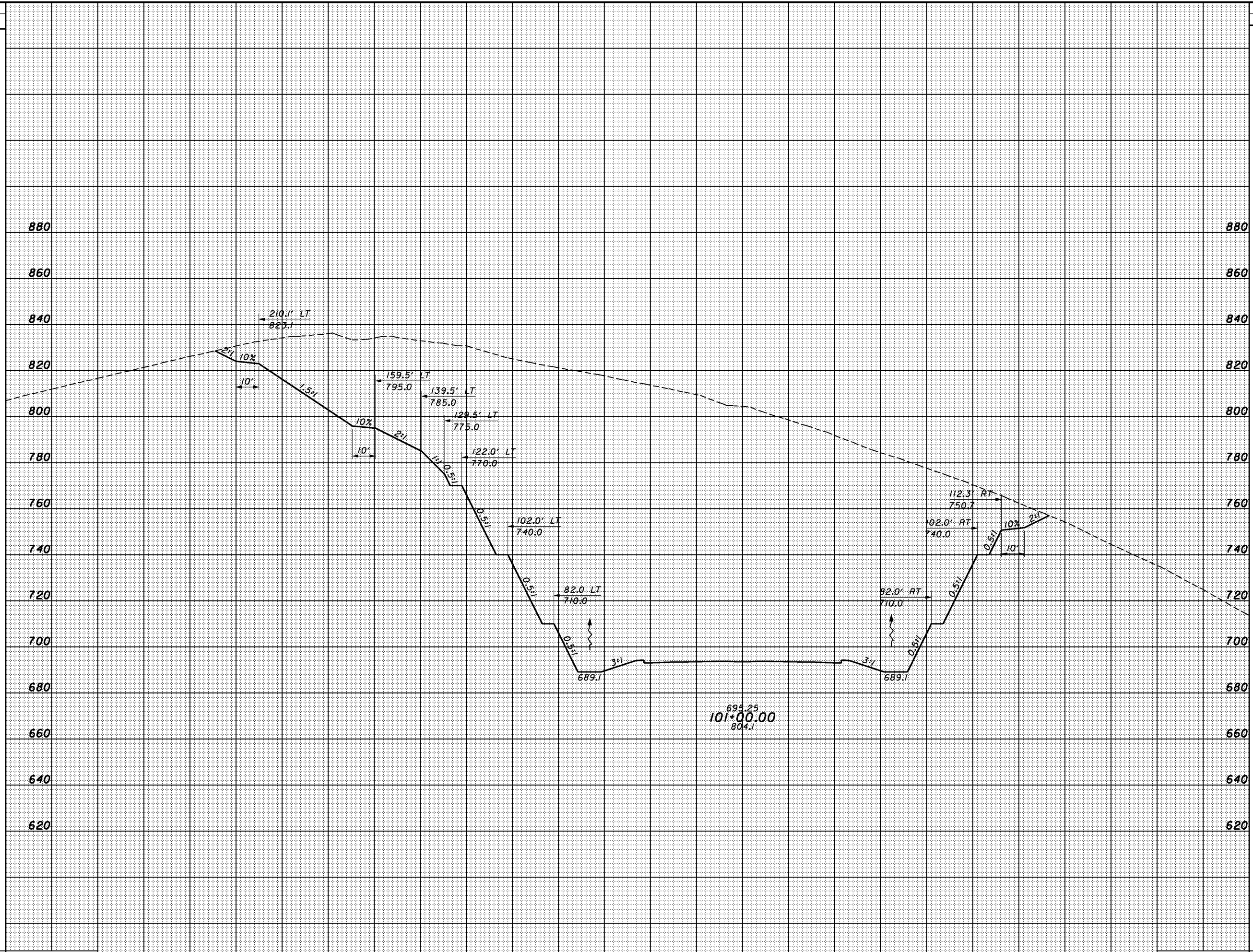
**CROSS SECTIONS**  
**SR823 - STA. 100+50.00**

**SCI-823-0.00**

8:55:06 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_b.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS  
SR823 - STA. 101+00.00

SCI-823-0.00

8:55:01 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366xs-sr-823\_b.dgn

SEEDING	
END WIDTH	SO. YDS.

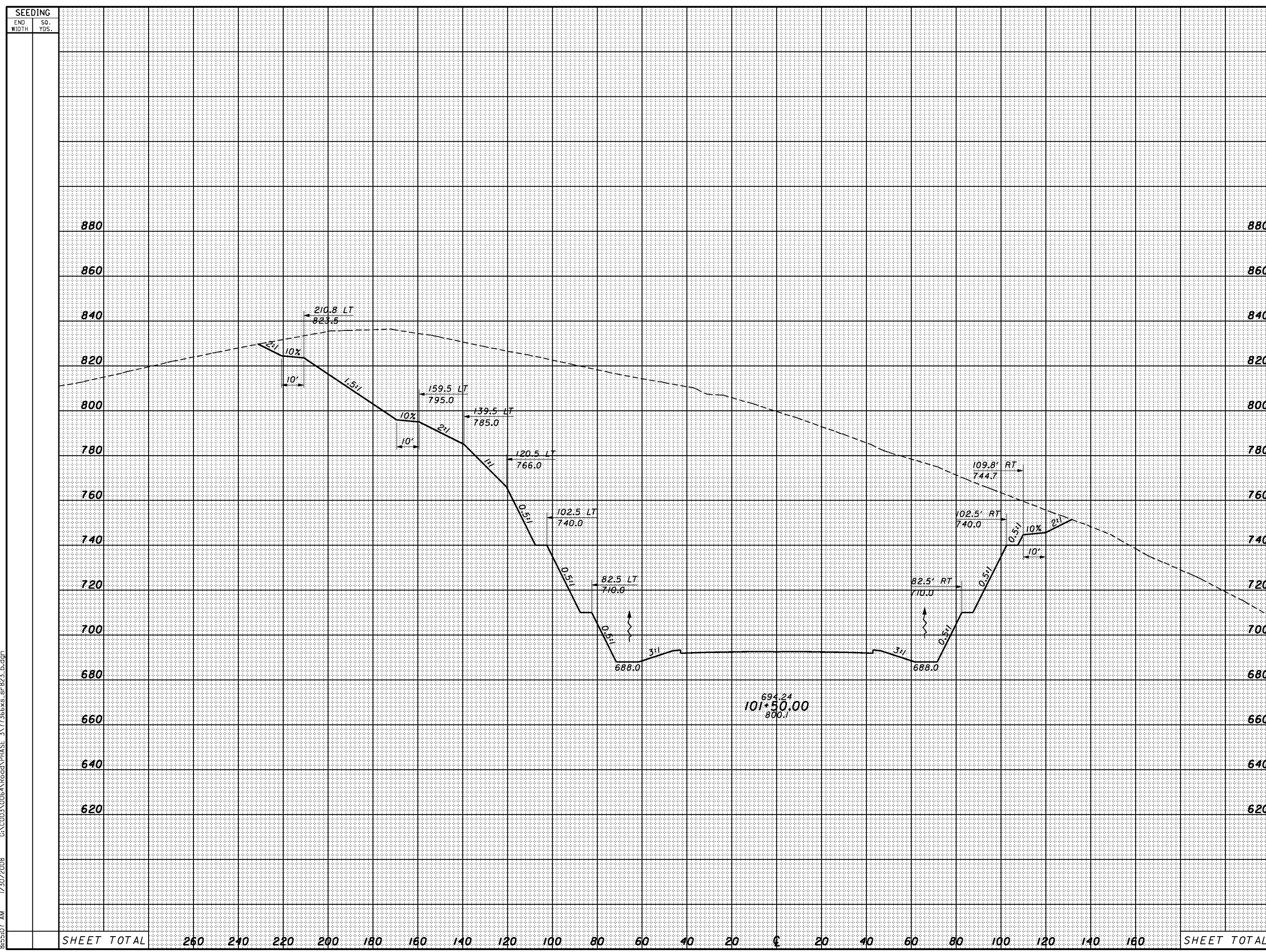
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 101+50.00

SCI-823-0.00

173



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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8/5/2008 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_b.dgn

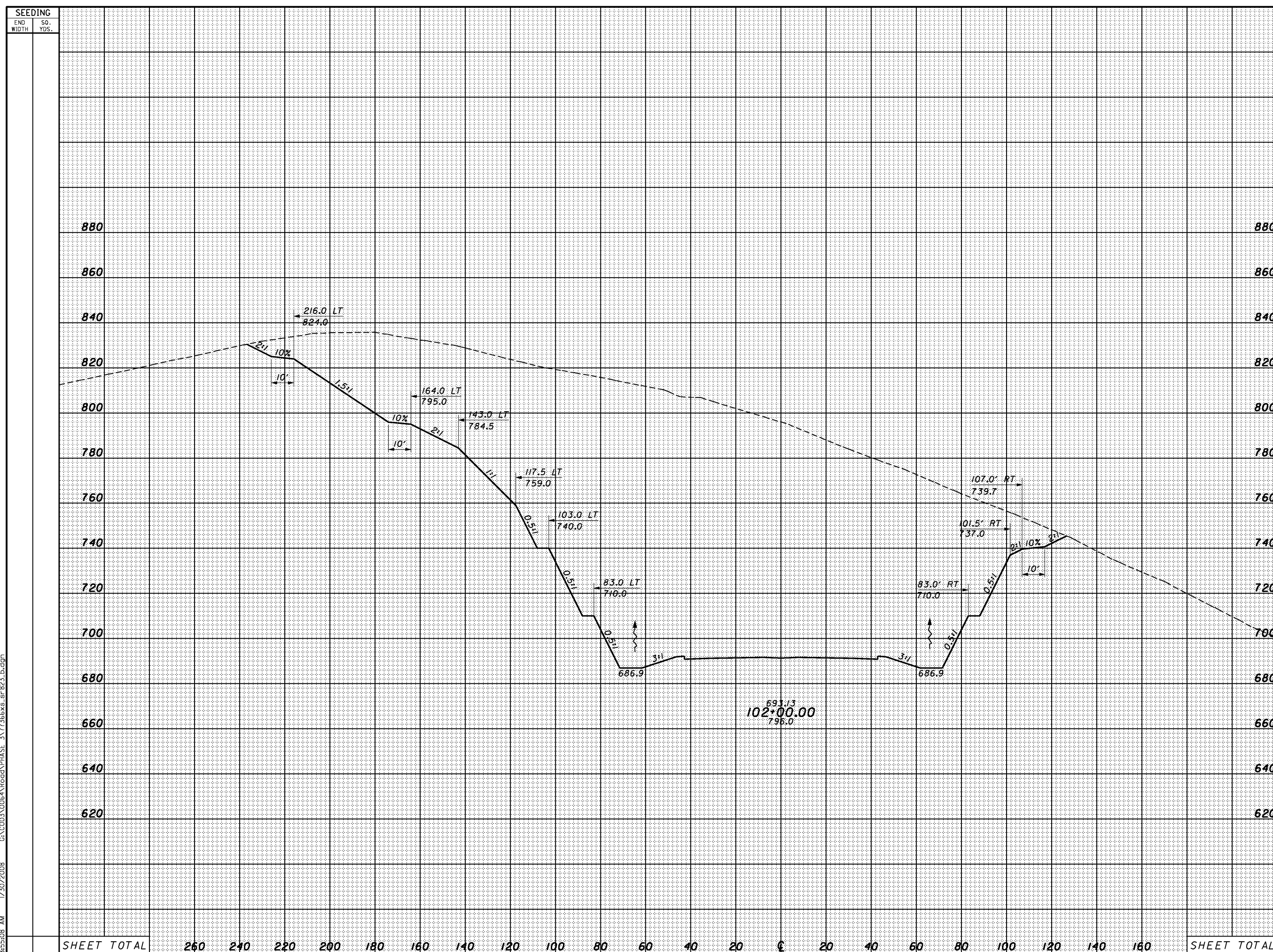
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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**CROSS SECTIONS**  
**SR823 - STA. 102+00.00**

**SCI-823-0.00**

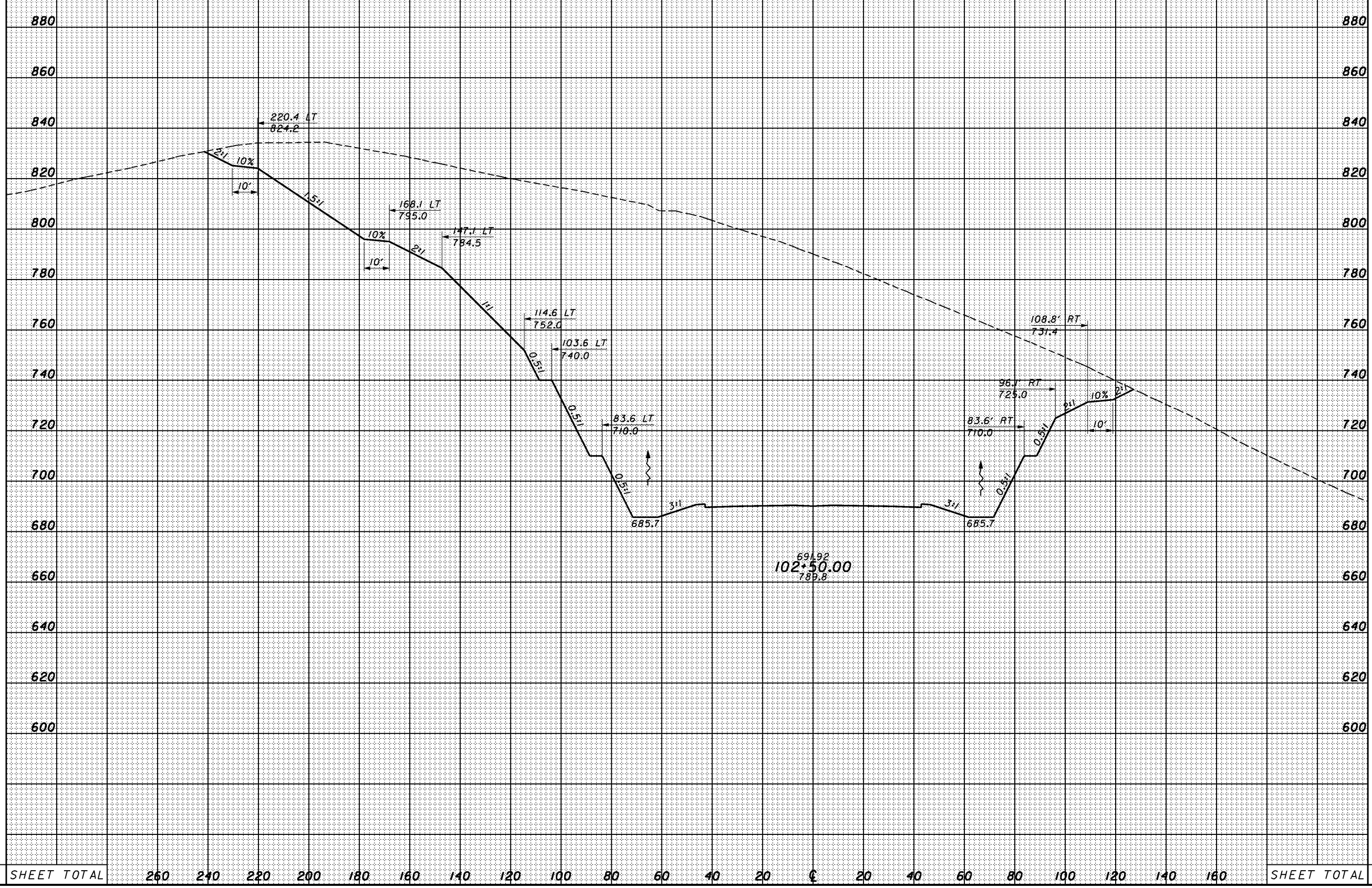


STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
880				
860				
840				
820				
800				
780				
760				
740				
720				
700				
680				
660				
640				
620				
<b>SHEET TOTAL</b>				

SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8/5/09 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_b.dgn



CROSS SECTIONS  
SR823 - STA. 102+50.00

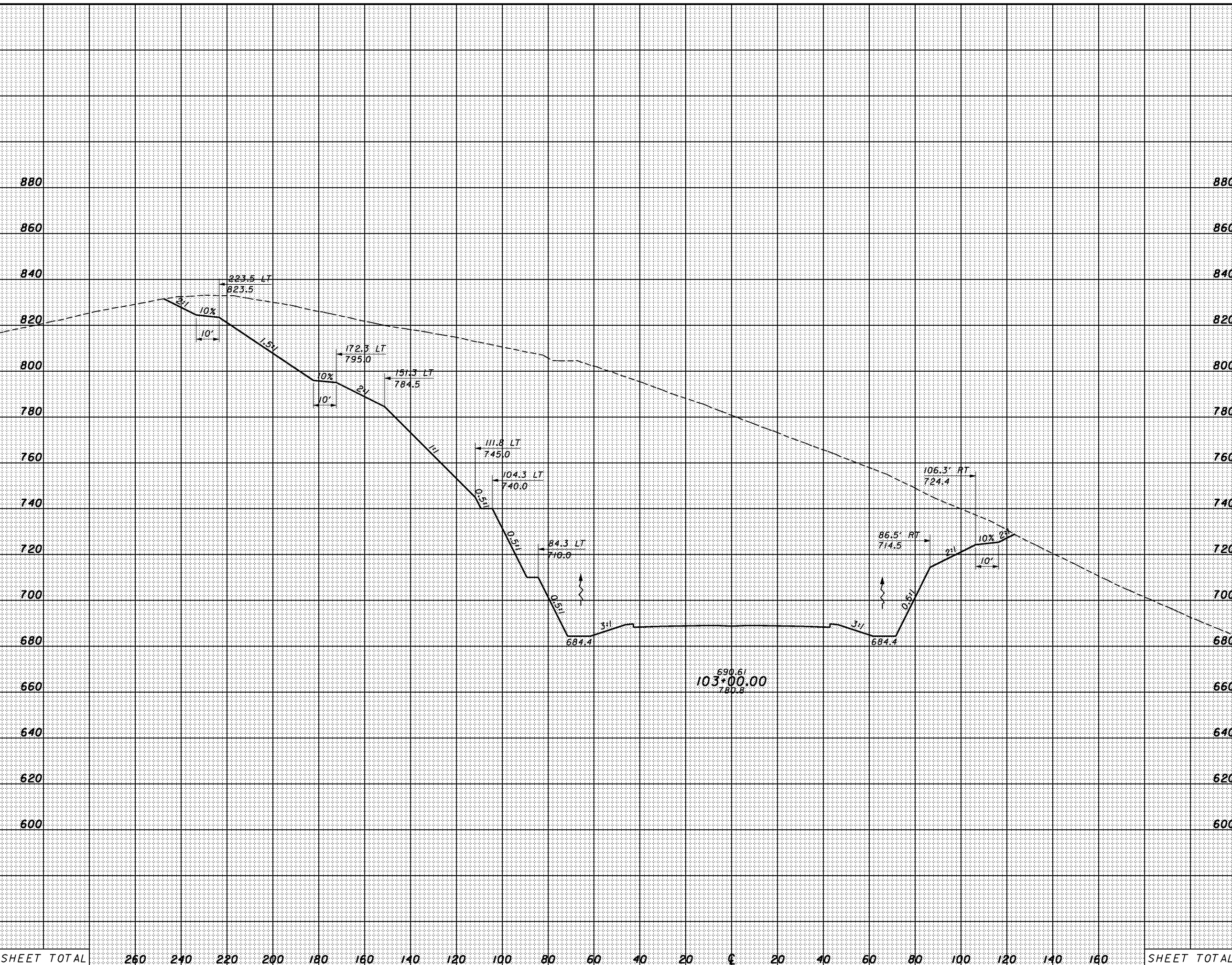
SCI-823-0.00



8:55:10 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823-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	€	20	40	60	80	100	120	140	160	SHEET TOTAL
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CROSS SECTIONS  
SR823 - STA. 103+00.00

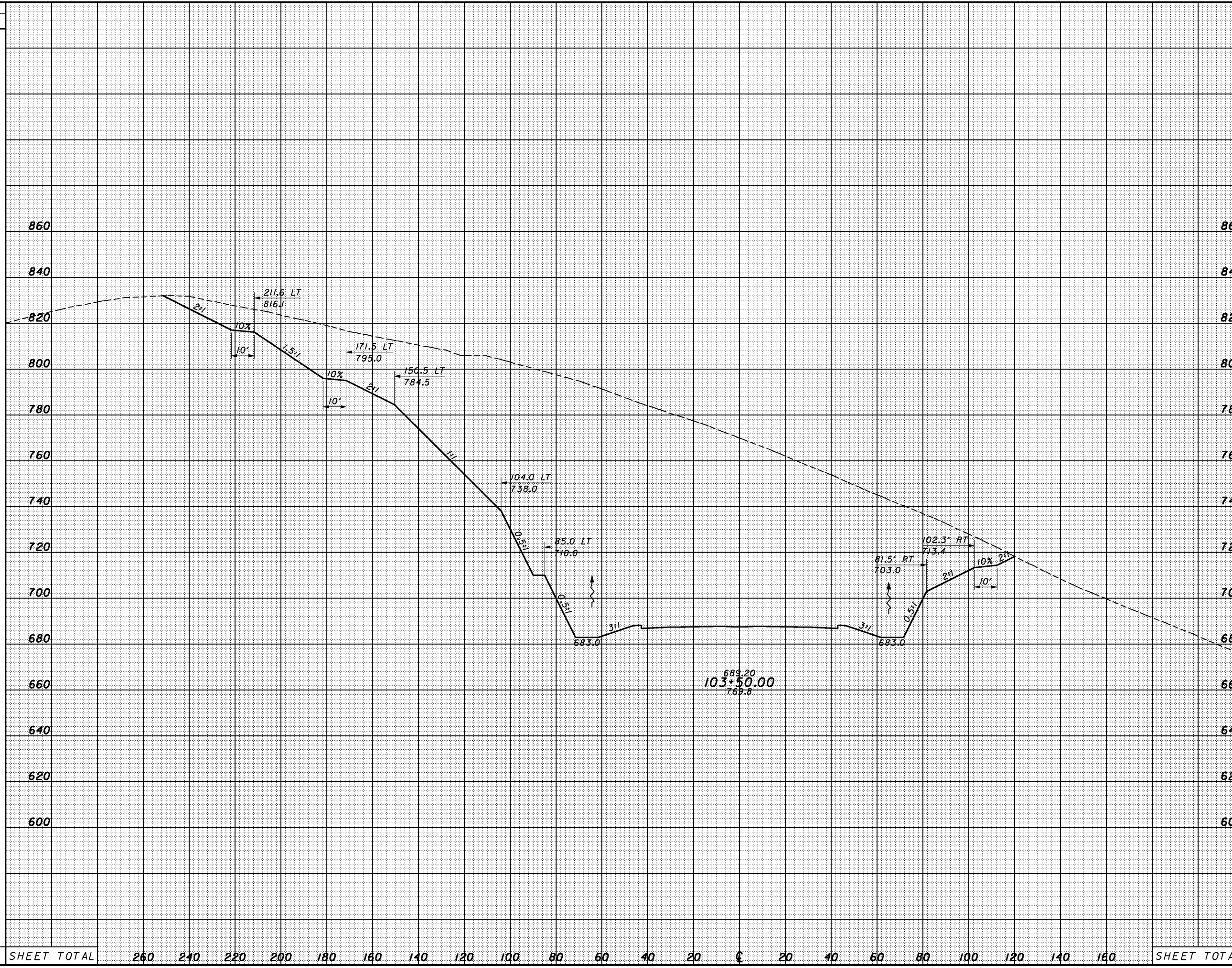
SCI-823-0.00

176

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8/5/11 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_b.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
-------------	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	----	----	----	-----	-----	-----	-----	-------------

CROSS SECTIONS  
SR823 - STA. 103+50.00

SCI-823-0.00

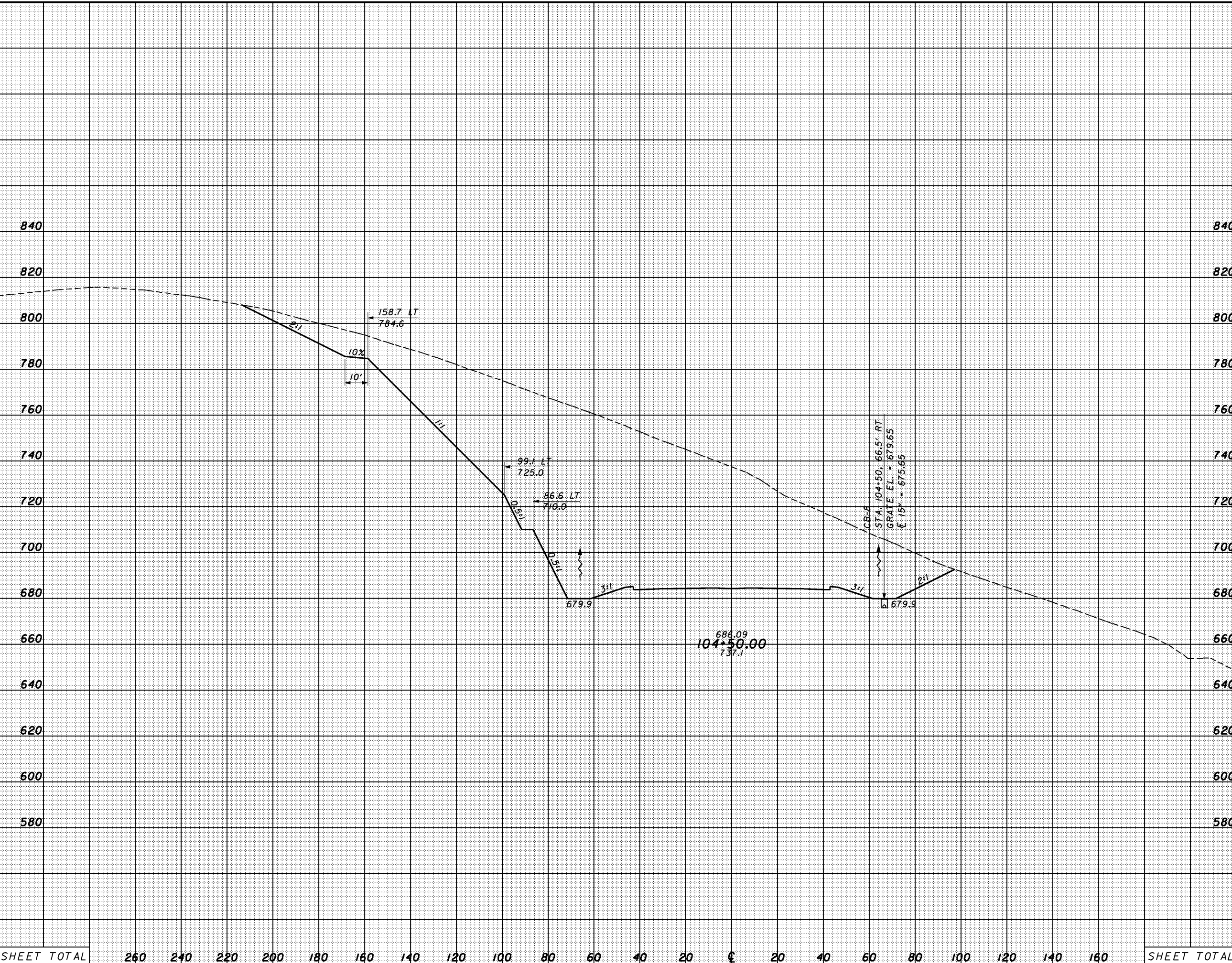




8/5/12 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_b.dgn

SEEDING	
END WIDTH	SO. 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	€	20	40	60	80	100	120	140	160	SHEET TOTAL
-------------	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	----	----	----	-----	-----	-----	-----	-------------

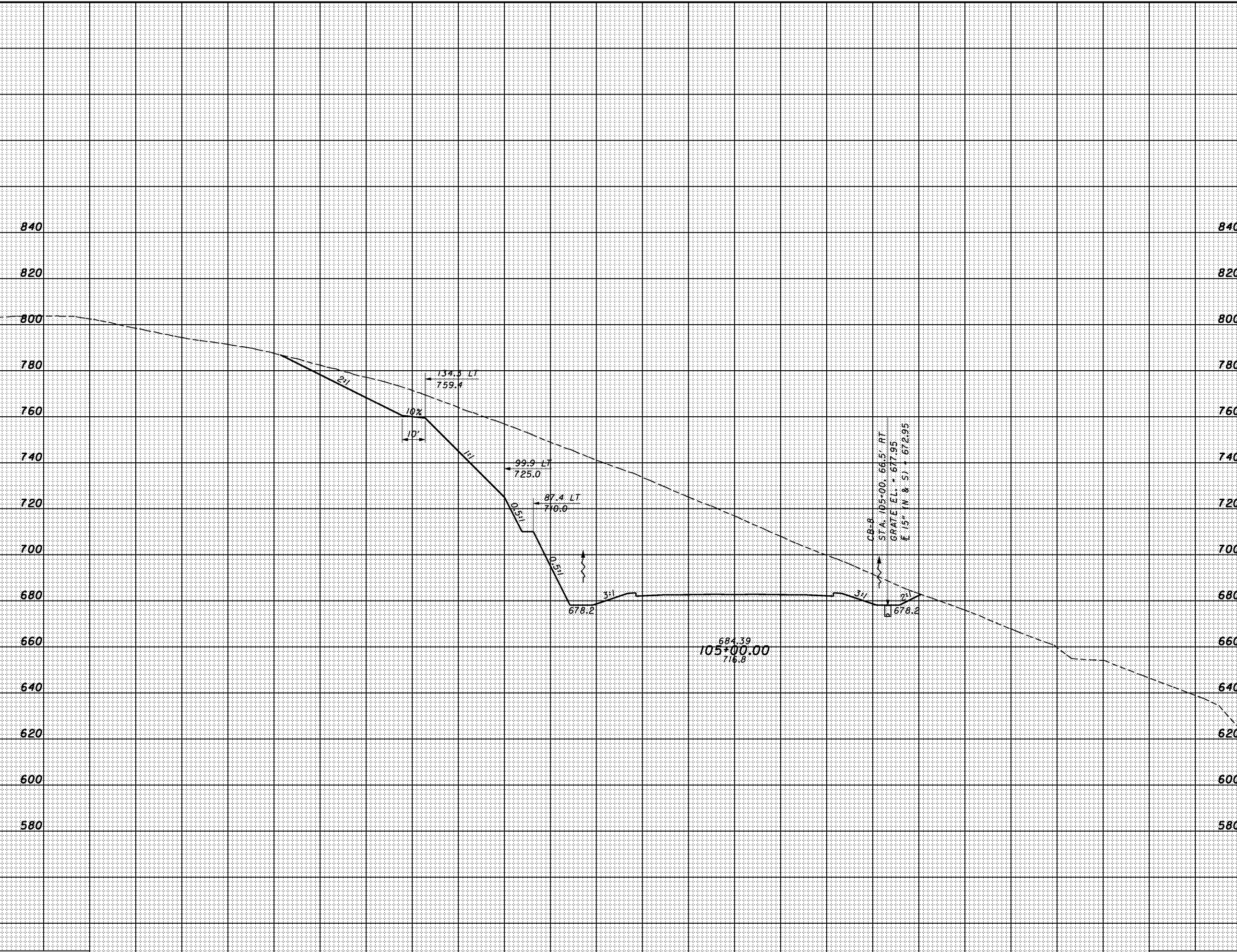
CROSS SECTIONS  
SR823 - STA. 104+50.00

SCI-823-0.00

8:55:13 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366&s-sr-823\_b.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

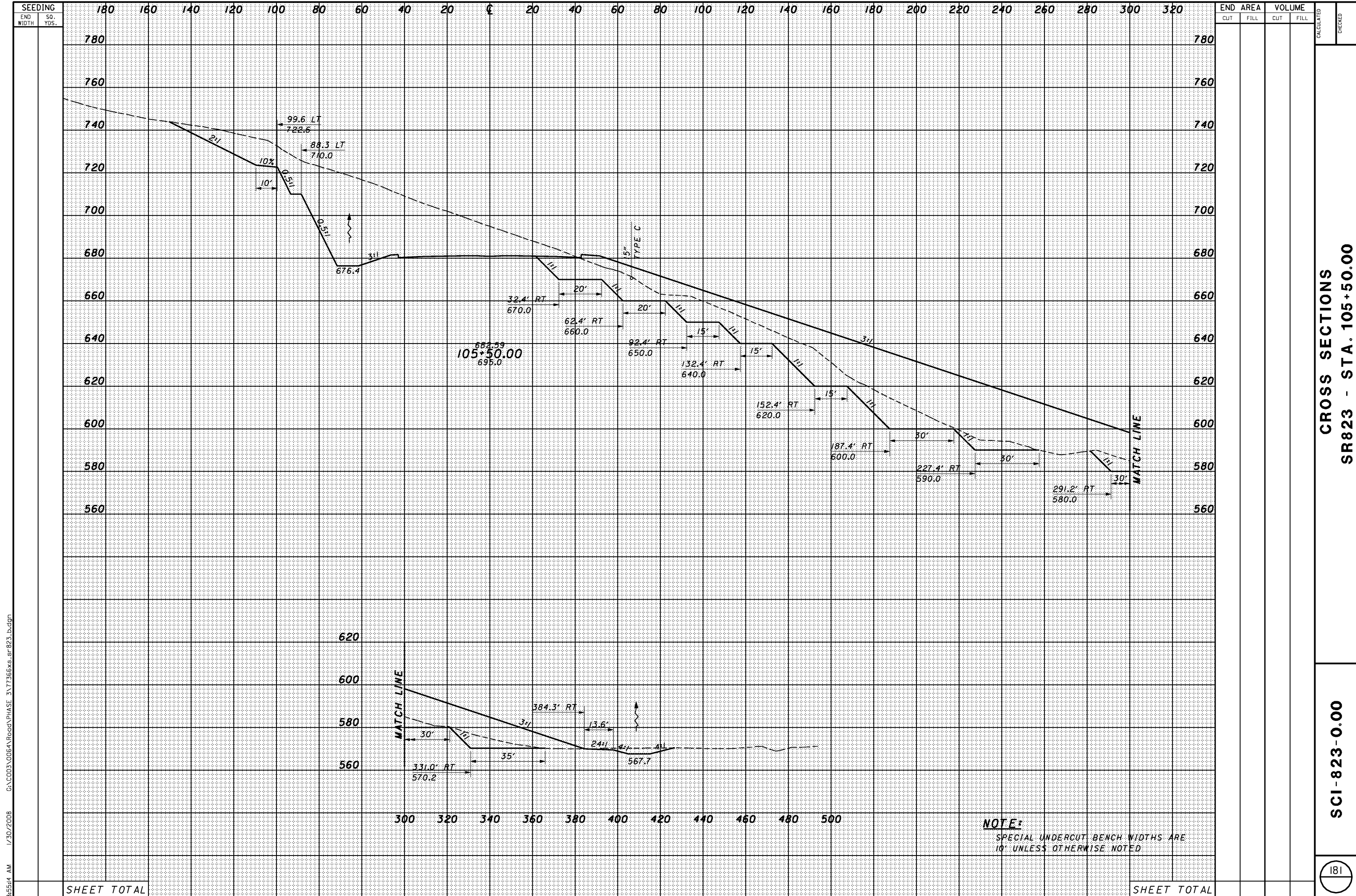


SHEET TOTAL	260	240	220	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	SHEET TOTAL
-------------	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	----	----	----	---	----	----	----	----	-----	-----	-----	-----	-------------

CROSS SECTIONS  
SR823 - STA. 105+00.00

SCI-823-0.00





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

CALCULATED  
 CHECKED

**CROSS SECTIONS**  
**SR823 - STA. 105+50.00**

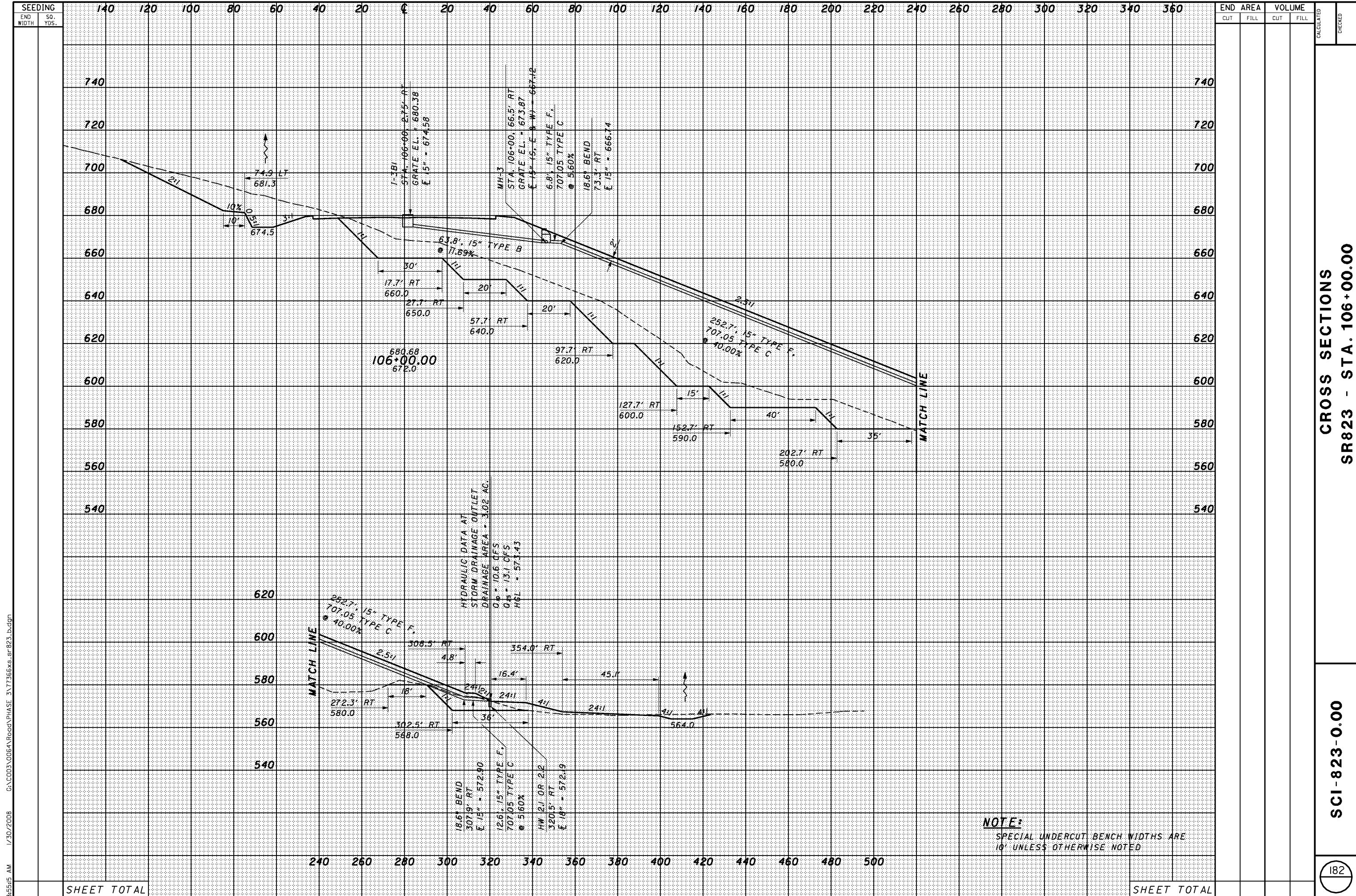
**SCI-823-0.00**

181

SHEET TOTAL

SHEET TOTAL

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



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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. 106+00.00

SCI-823-0.00

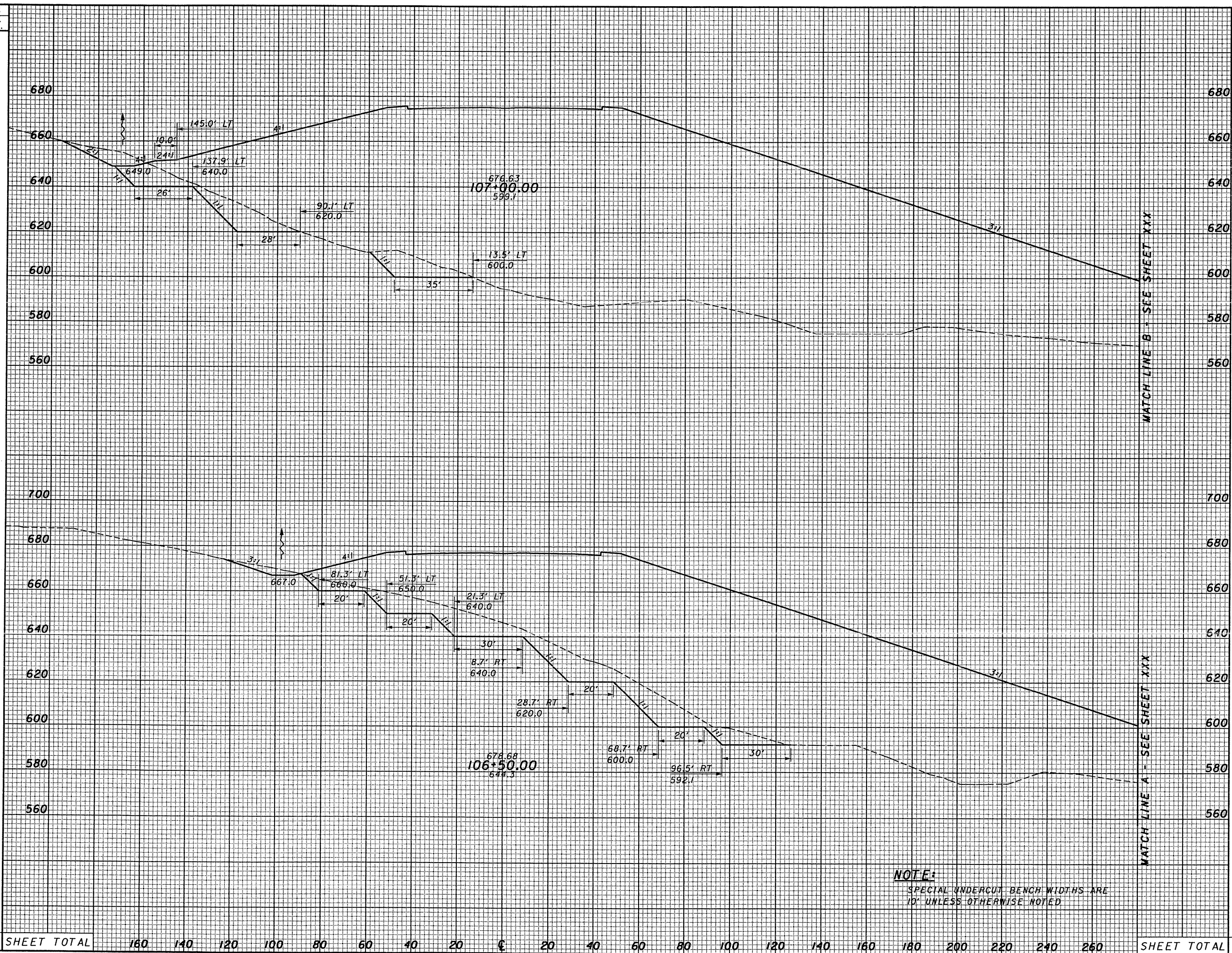
**NOTE:**  
SPECIAL UNDERCUT BENCH WIDTHS ARE 10' UNLESS OTHERWISE NOTED



SEEDING  
END WIDTH SQ. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

6:30:19 PM 11/28/2007 g:\c003\00641\ood\phase 1\77366xs\_sr823\_c.dgn



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

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. 106+50.00 TO STA. 107+00.00

SCI-823-0.00



8:55:20 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_c.dgn

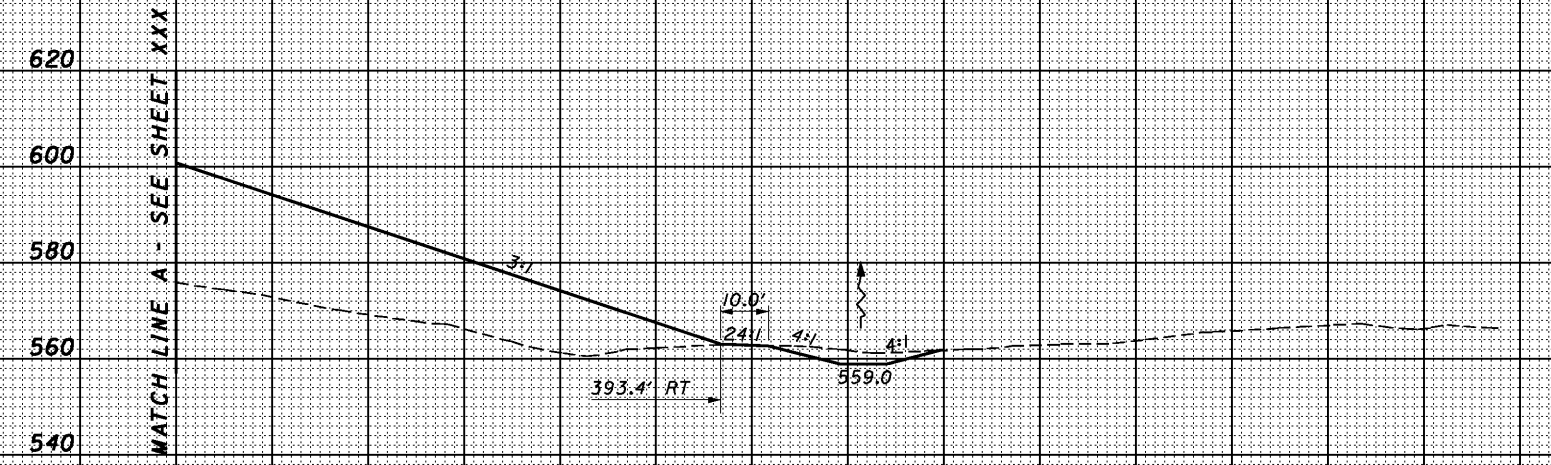
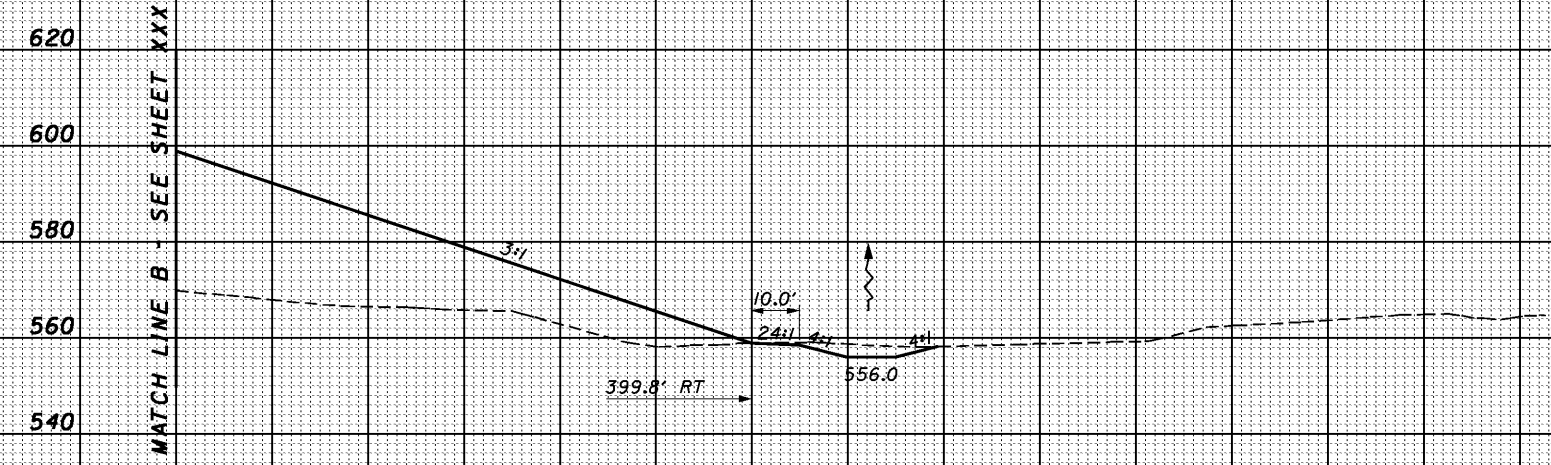
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 106+50.00 TO STA. 107+00.00.

SCI-823-0.00



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

SHEET TOTAL

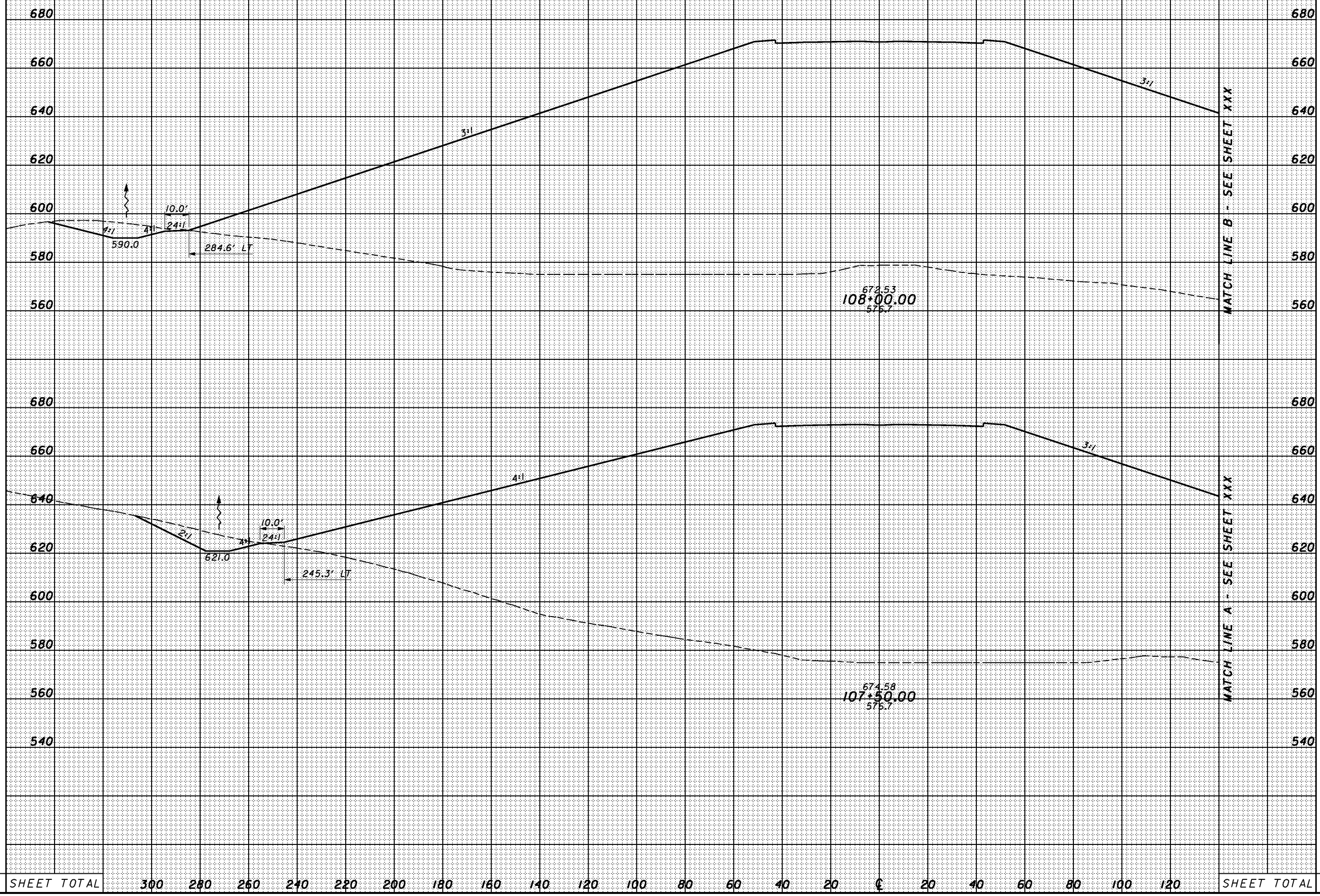
280 300 320 340 360 380 400 420 440 460 480 500 520 540 560

SHEET TOTAL

8:55:21AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_c.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS  
SR823 - STA. 107+50.00 TO STA. 108+00.00

SCI-823-0.00



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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

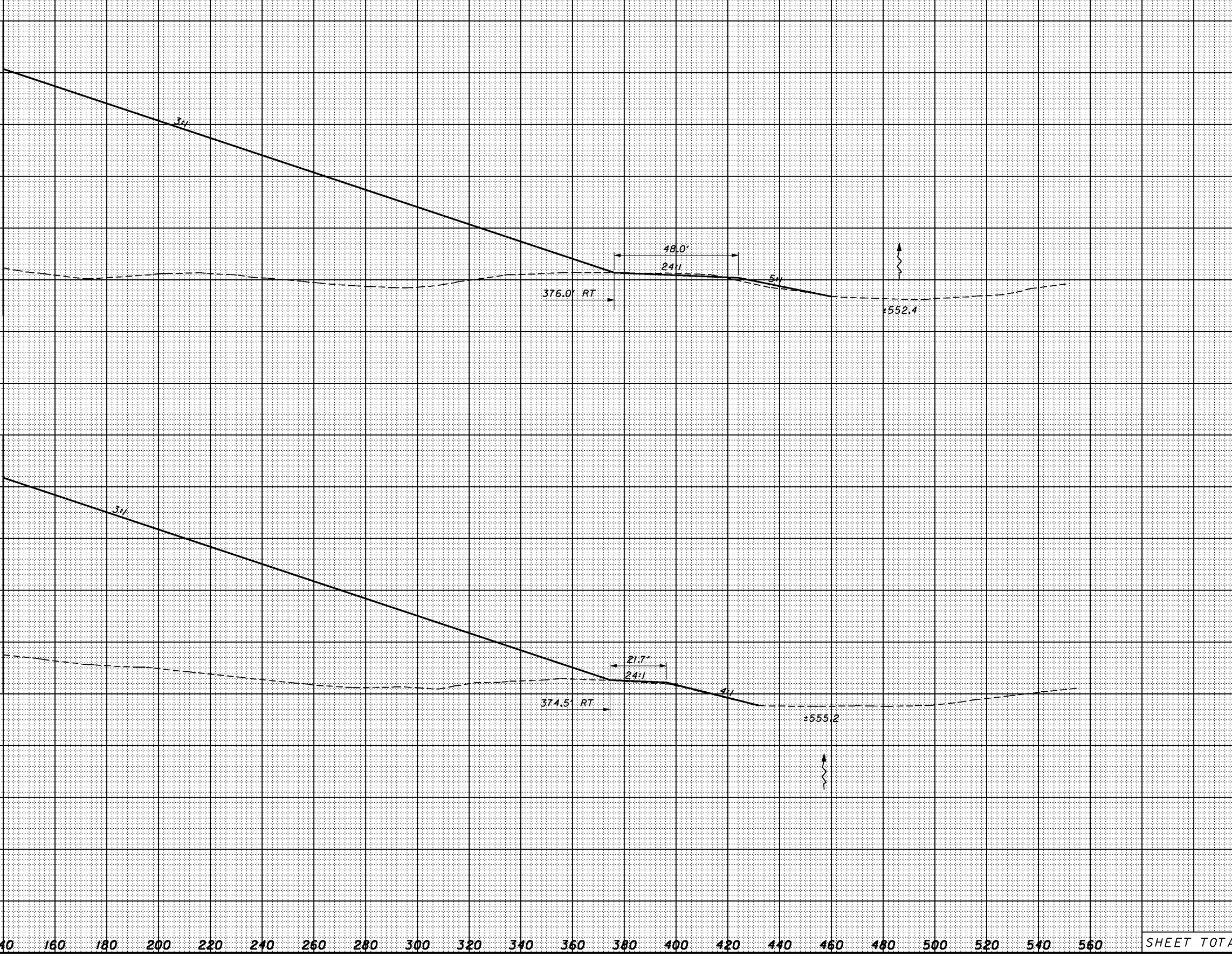
CROSS SECTIONS  
 SR823 - STA. 107+50.00 TO STA. 108+00.00  
 SCI-823-0.00  
 186

660  
640  
620  
600  
580  
560  
540

660  
640  
620  
600  
580  
560  
540

MATCH LINE B - SEE SHEET XXX

MATCH LINE A - SEE SHEET XXX

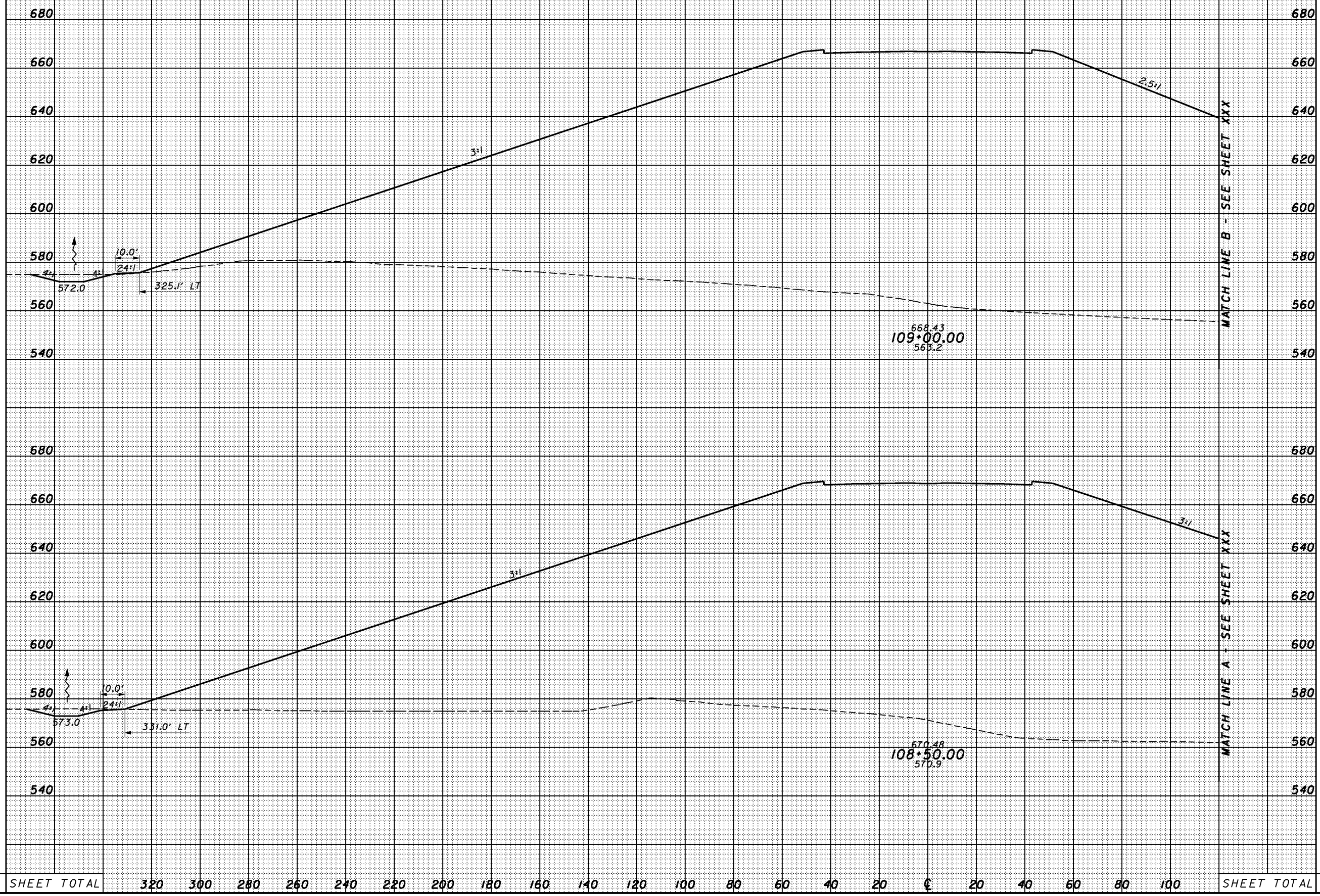


SHEET TOTAL 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420 440 460 480 500 520 540 560 SHEET TOTAL

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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

SHEET TOTAL	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	SHEET TOTAL
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SR823 - STA. 108+50.00 TO 109+00.00

SCI-823-0.00

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SEEDING	
END WIDTH	SO. YDS.

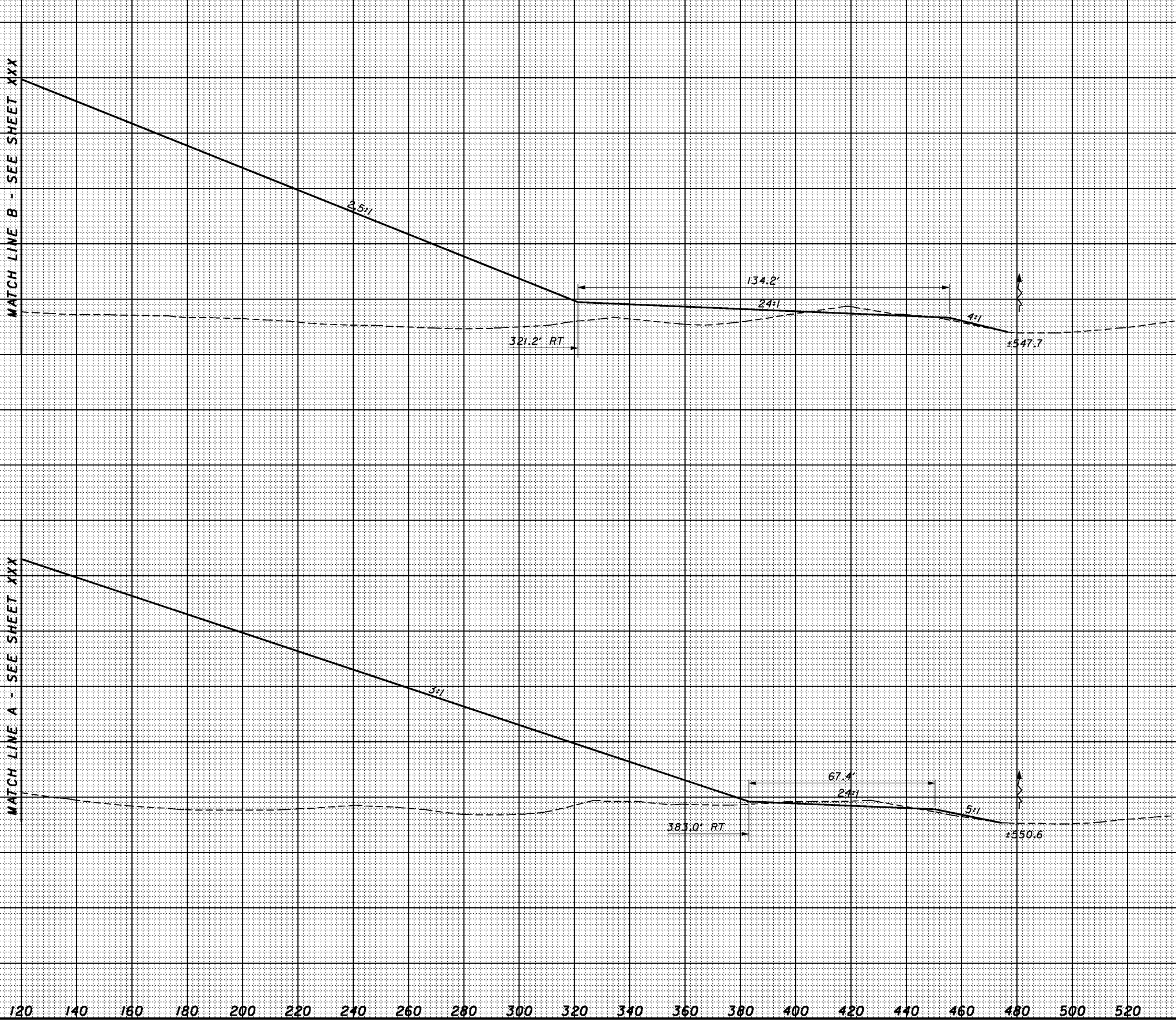
END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

CROSS SECTIONS  
 SR823 - STA. 108+50.00 TO STA. 109+00.00  
 SCI-823-0.00  
 188

660  
640  
620  
600  
580  
560  
540

MATCH LINE B - SEE SHEET XXX

MATCH LINE A - SEE SHEET XXX



SHEET TOTAL

SHEET TOTAL

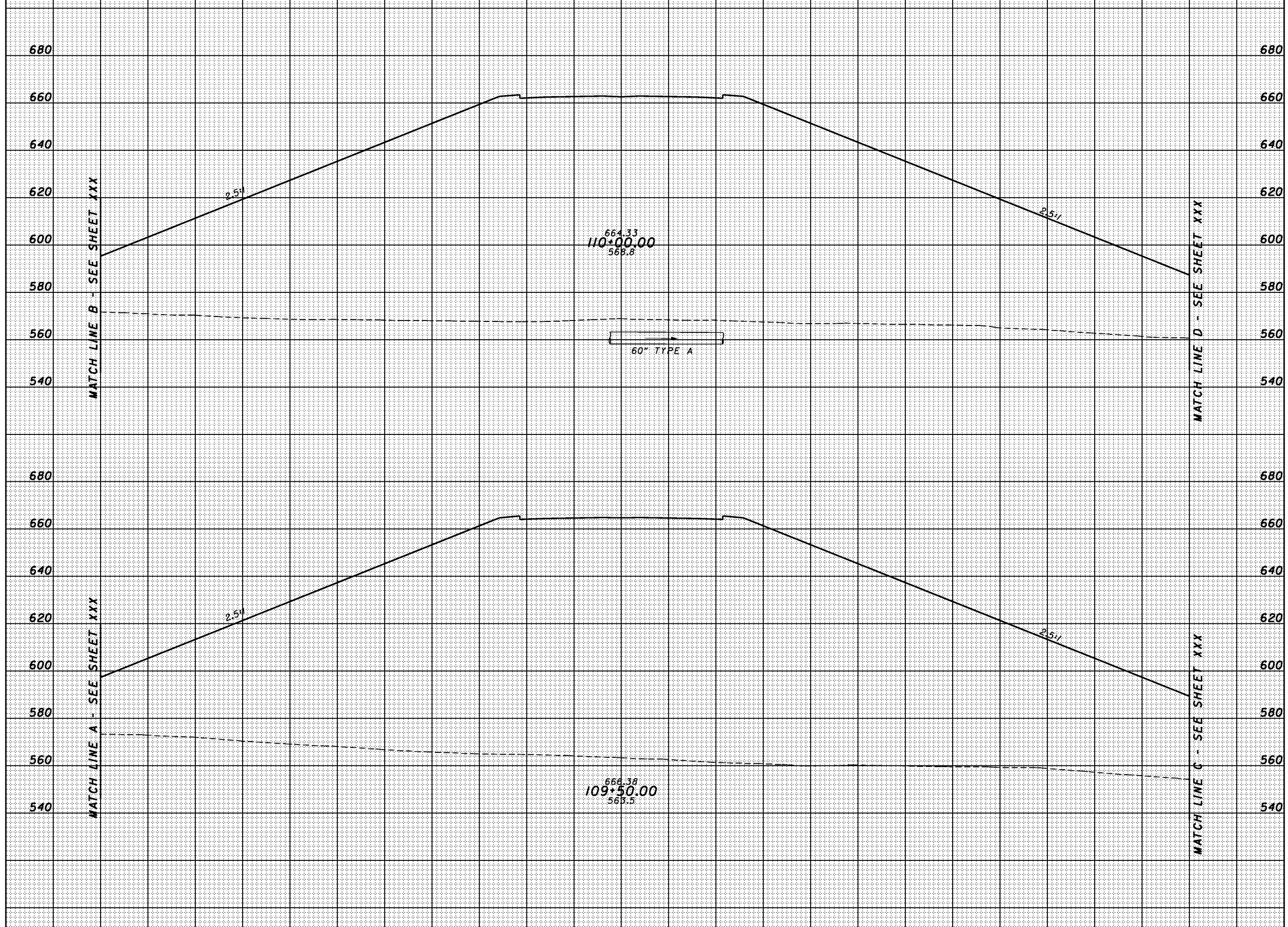
120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420 440 460 480 500 520



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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

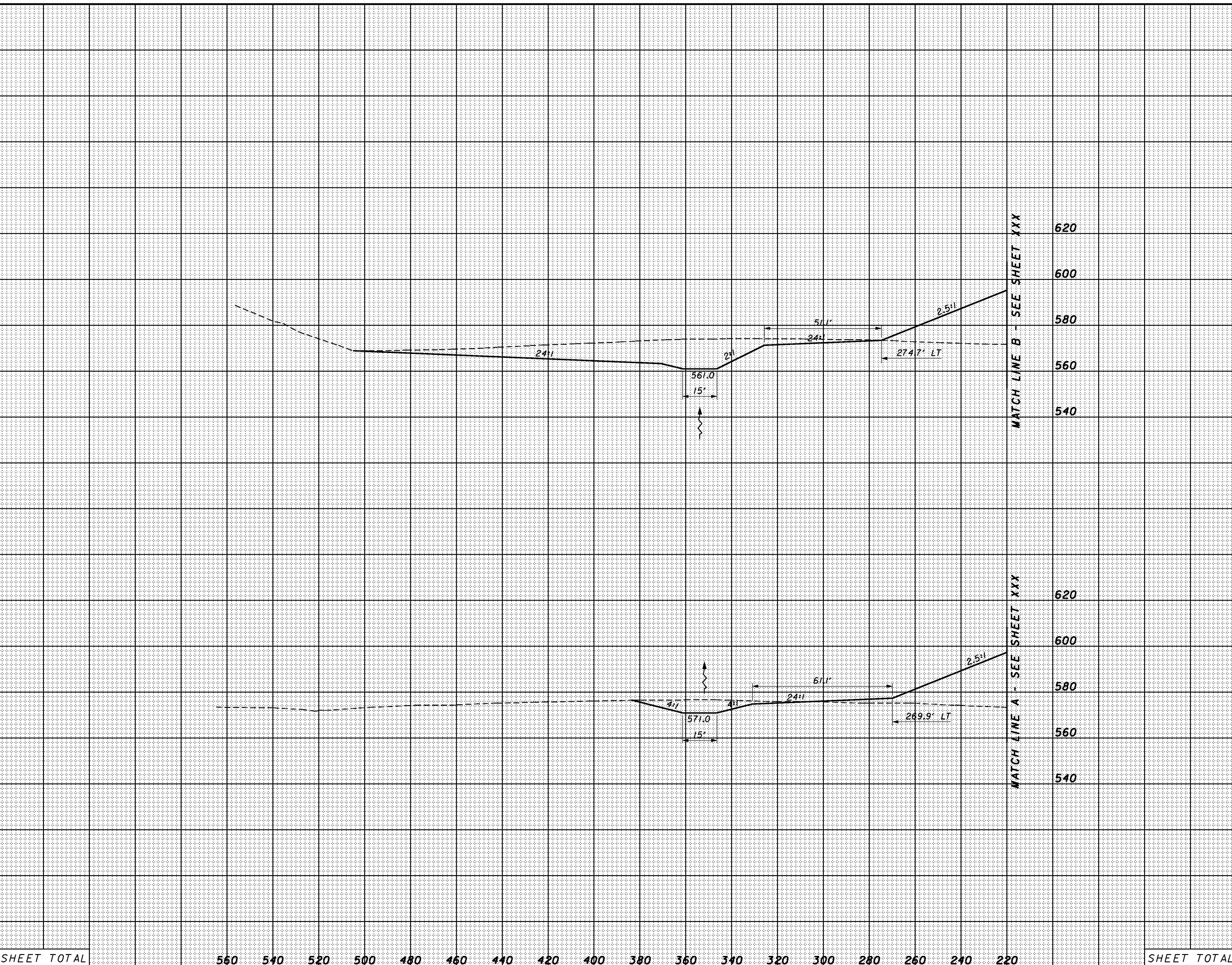
CROSS SECTIONS  
SR823 - STA. 109+50.00 TO STA. 110+00.00

SCI-823-0.00

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SEEDING  
END SO.  
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	560	540	520	500	480	460	440	420	400	380	360	340	320	300	280	260	240	220	SHEET TOTAL
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SR823 - STA. 109+50.00 TO STA. 110+00.00

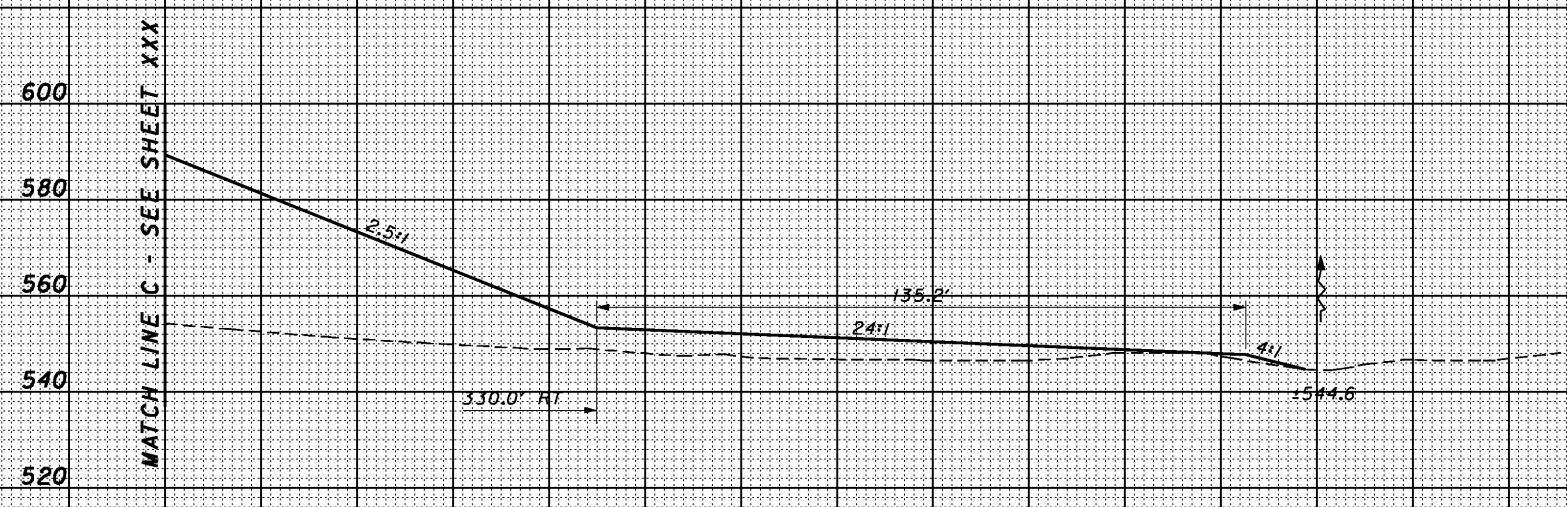
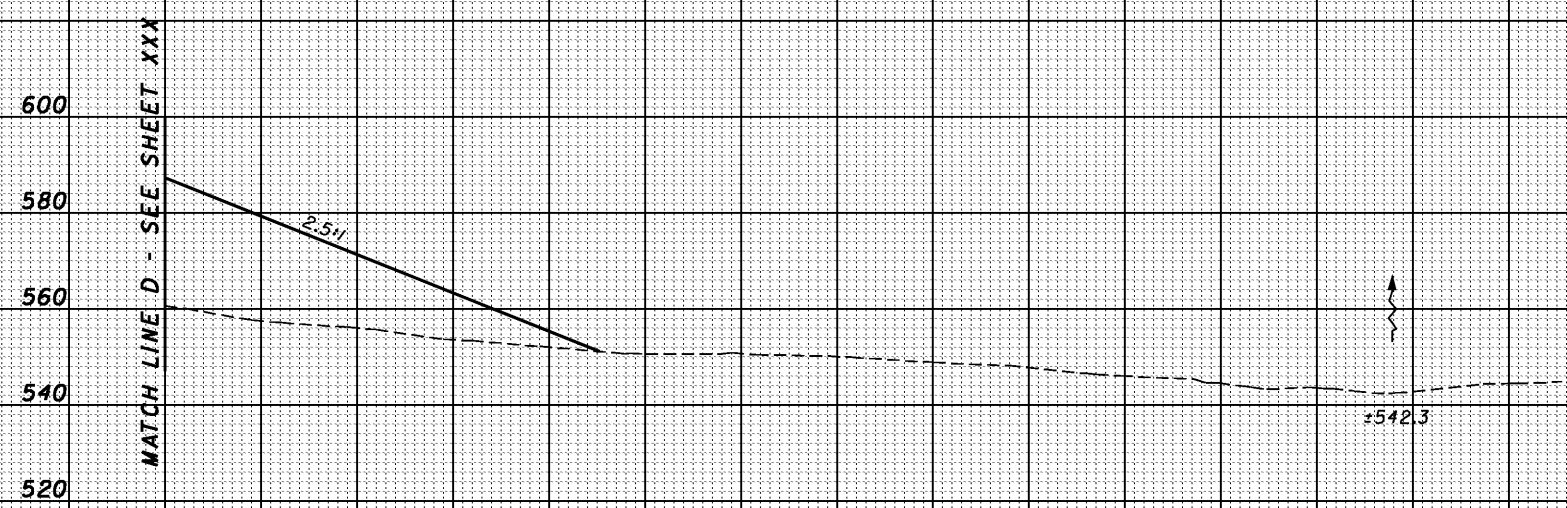
SCI-823-0.00



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SEEDING  
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL

240 260 280 300 320 340 360 380 400 420 440 460 480 500 520 540

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 109+50.00 TO STA. 110+00.00

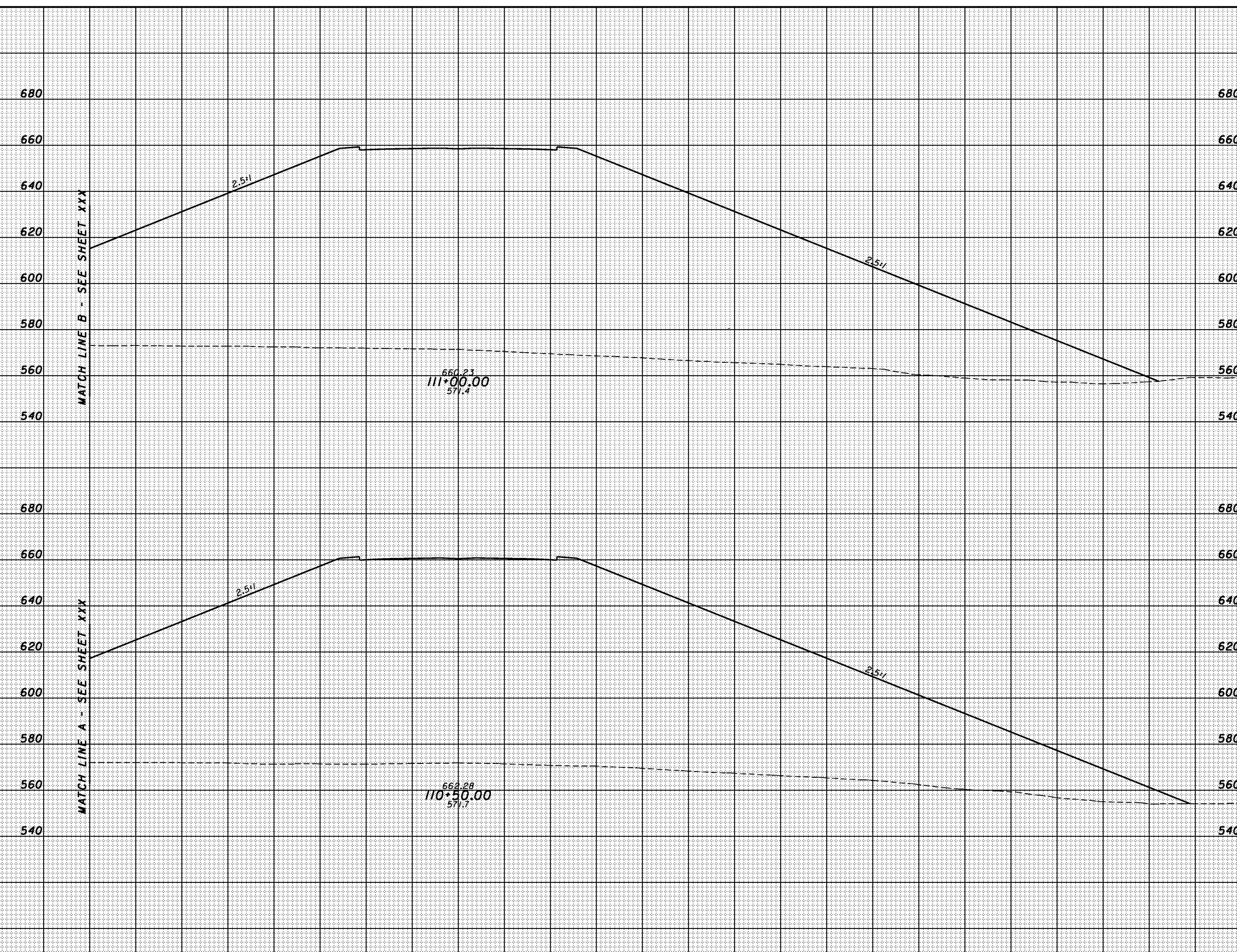
SCI-823-0.00

191

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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  
 SR823 - STA. 110+50.00 TO STA. 111+00.00

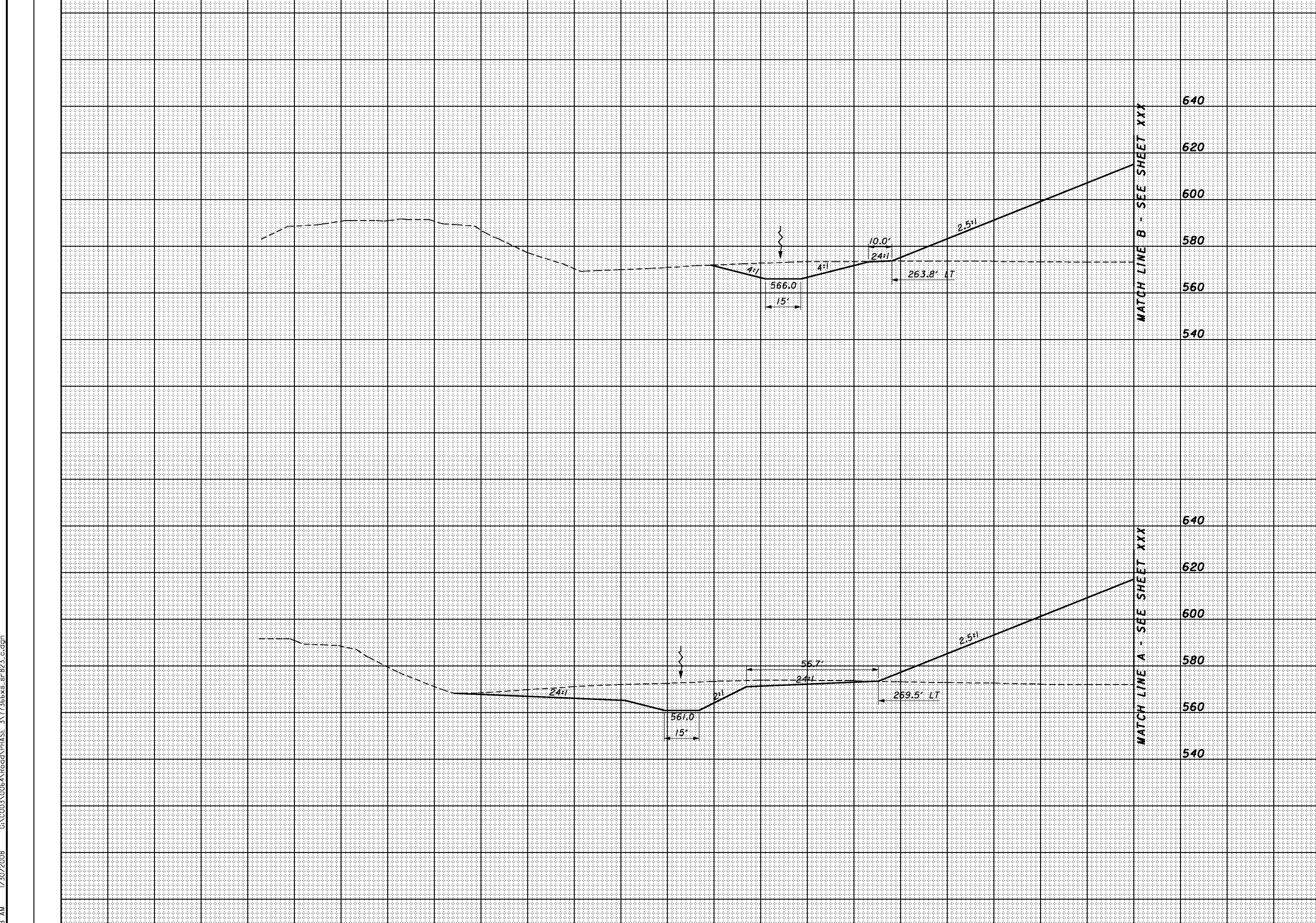
SCI-823-0.00

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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

CROSS SECTIONS  
 SR823 - STA. 110+50.00 TO STA. 111+00.00  
 SCI-823-0.00  
 193



STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
640				
620				
600				
580				
560				
540				
640				
620				
600				
580				
560				
540				

SHEET TOTAL      540   520   500   480   460   440   420   400   380   360   340   320   300   280   260   240   220   200   180   160      SHEET TOTAL

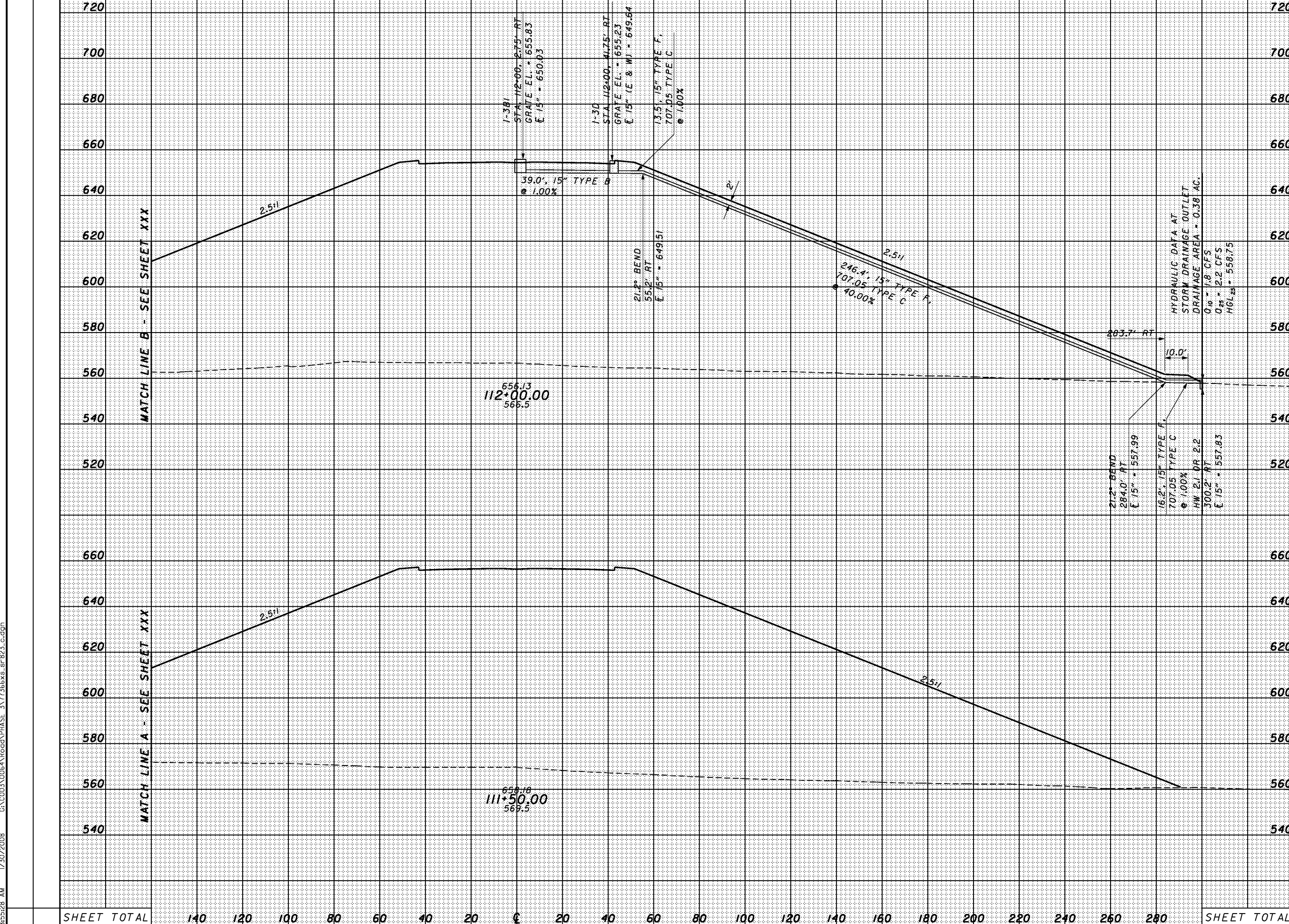


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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED



720	720				
700	700				
680	680				
660	660				
640	640				
620	620				
600	600				
580	580				
560	560				
540	540				
520	520				
660	660				
640	640				
620	620				
600	600				
580	580				
560	560				
540	540				
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. 111+50.00 TO STA. 112+00.00

SCI-823-0.00

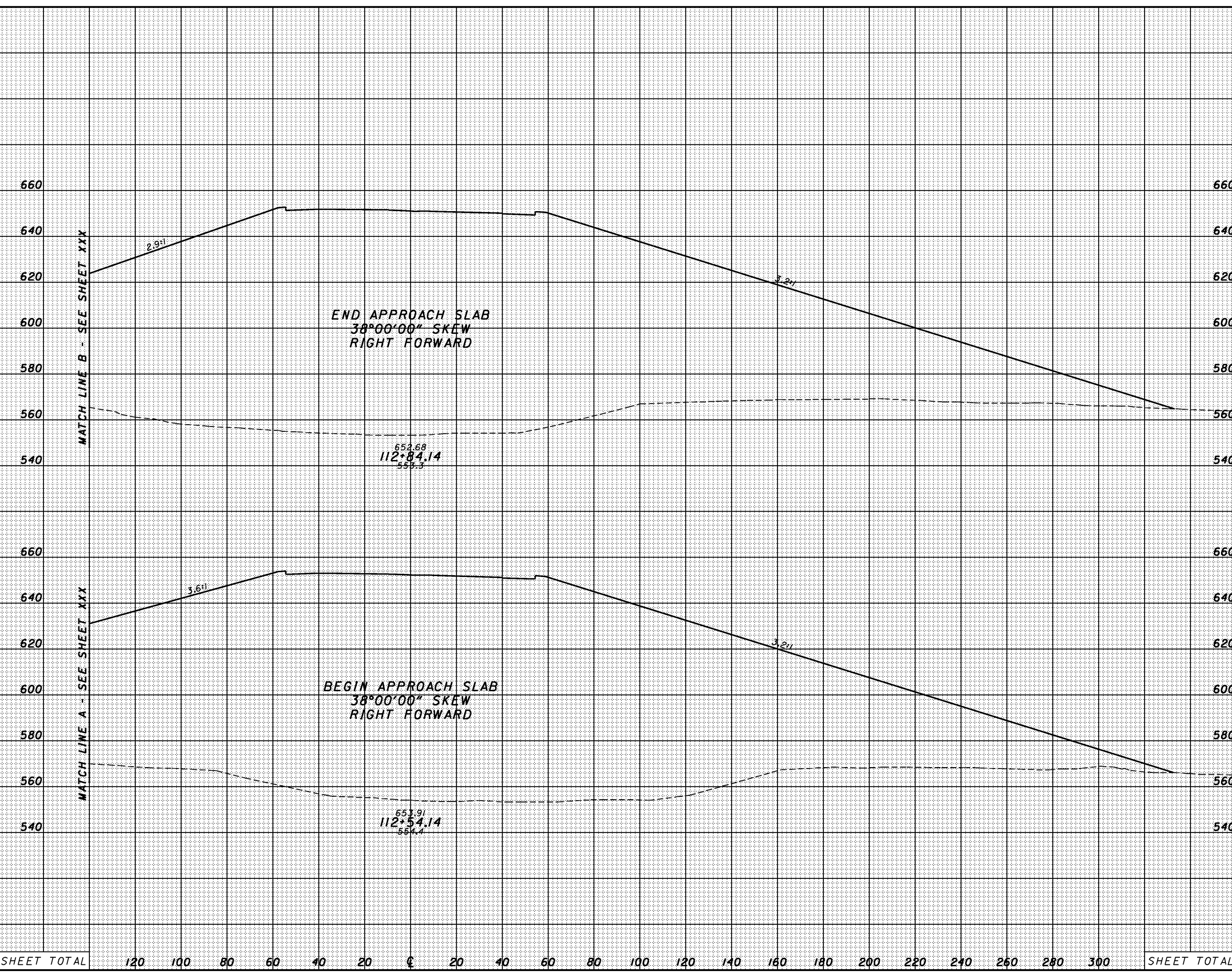




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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



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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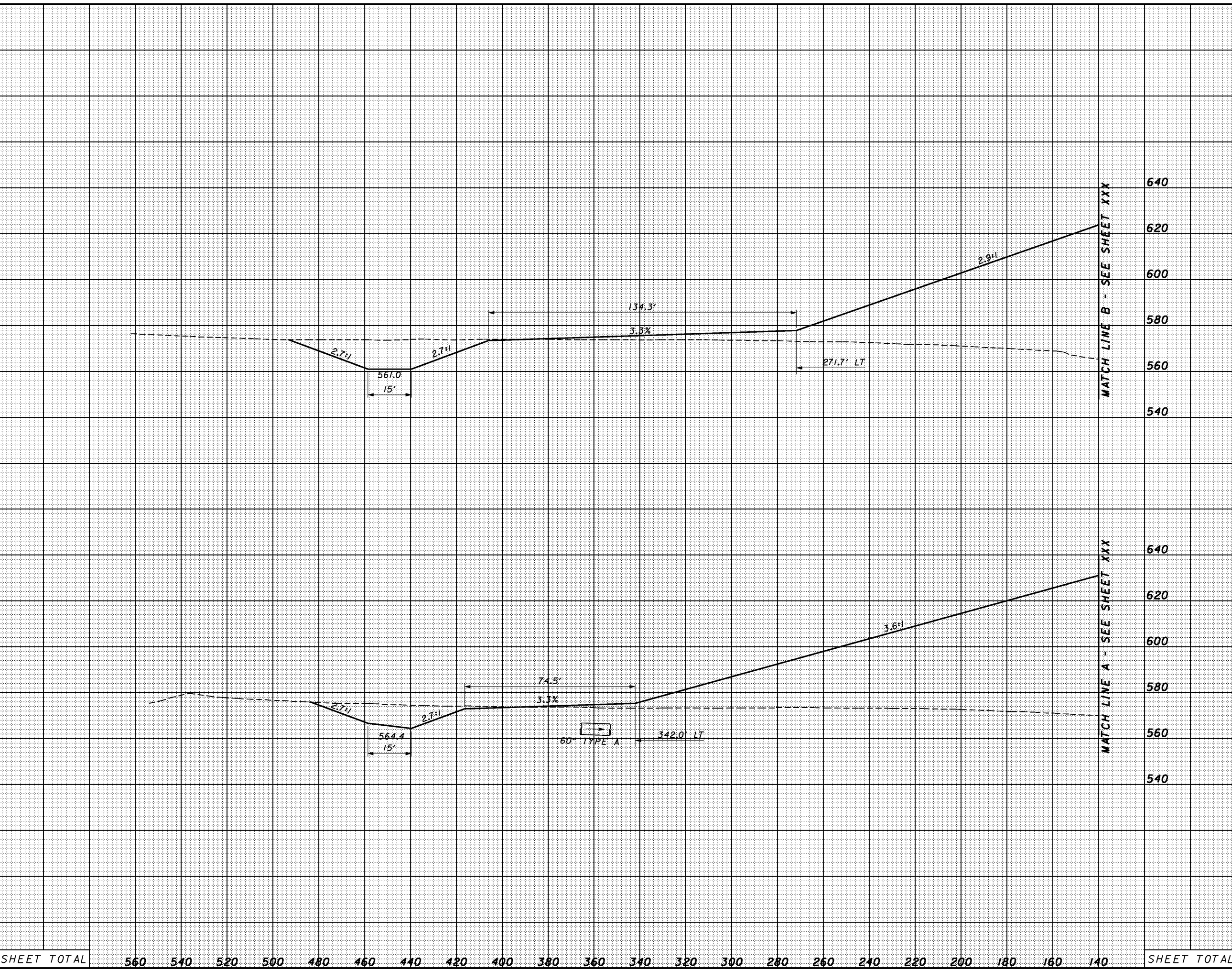
CROSS SECTIONS  
SR823 - STA. 112+54.14 TO STA. 112+84.14

SCI-823-0.00

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SEEDING  
END SO.  
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	560	540	520	500	480	460	440	420	400	380	360	340	320	300	280	260	240	220	200	180	160	140	SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 112+54.14 TO STA. 112+84.14

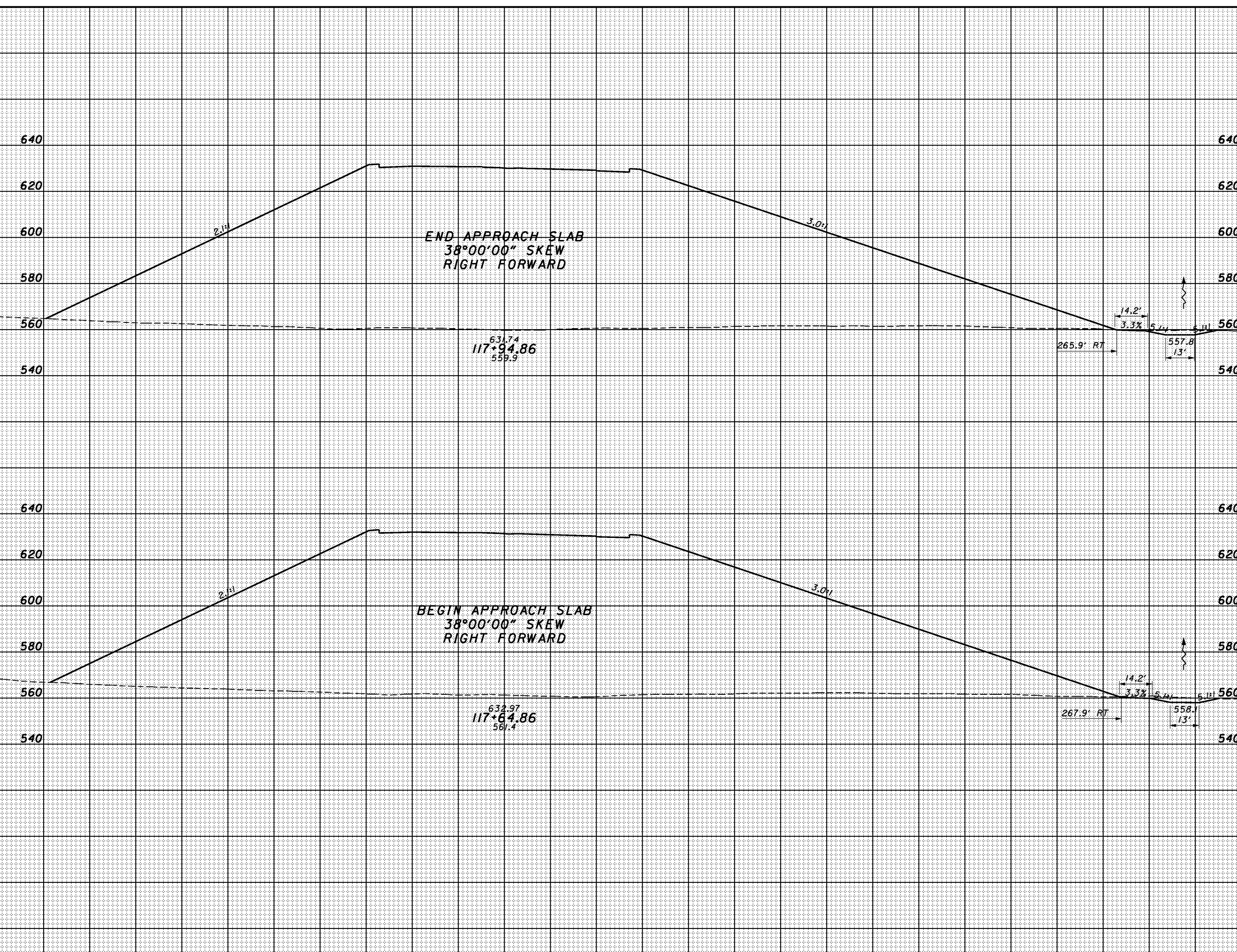
SCI-823-0.00



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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



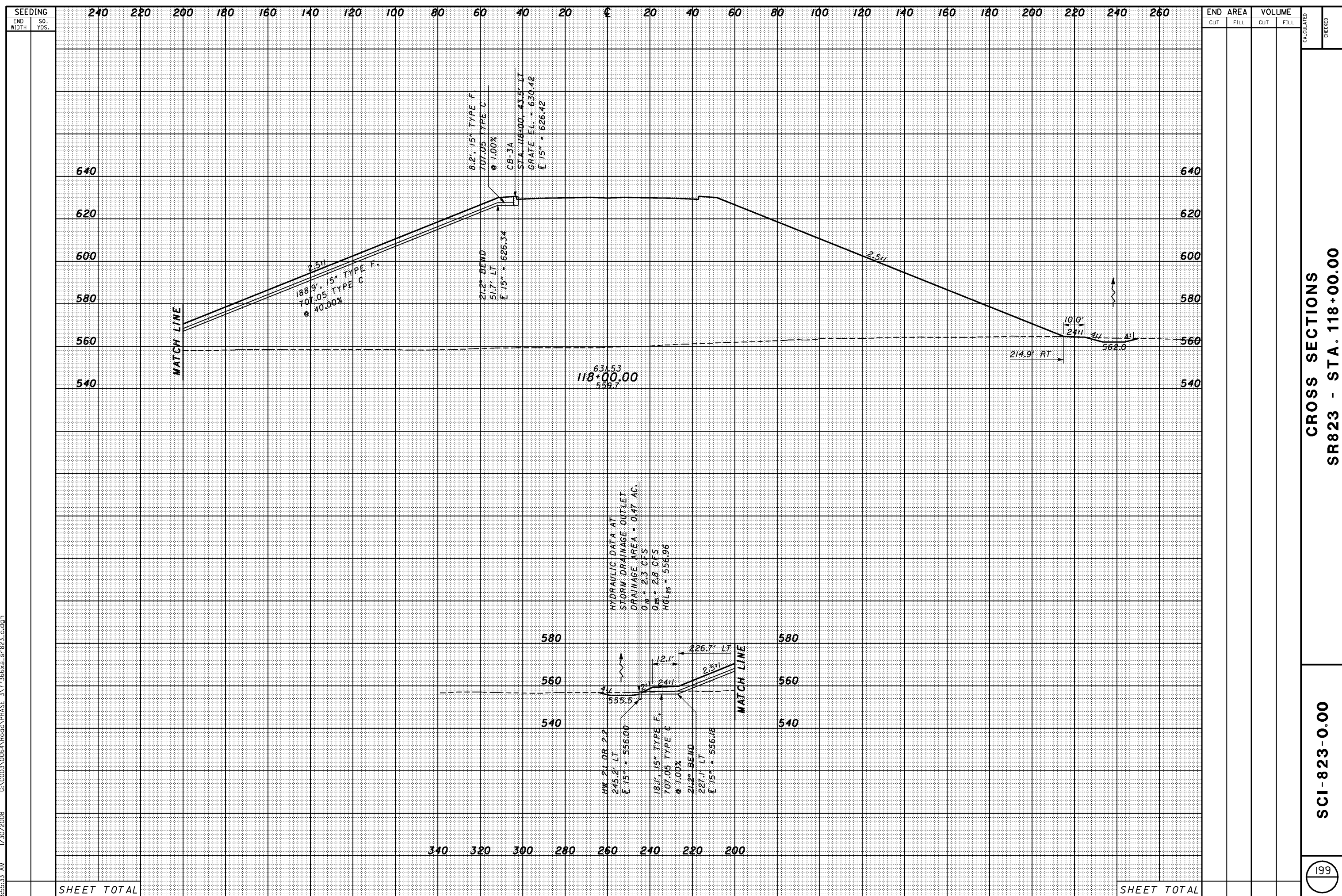
SHEET TOTAL	160	140	120	100	80	60	40	20	¢	20	40	60	80	100	120	140	160	180	200	220	240	260	SHEET TOTAL
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CROSS SECTIONS  
 SR823 - STA. 117+64.86 TO STA. 117+94.86

SCI-823-0.00



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

CROSS SECTIONS  
SR823 - STA. 118+00.00

SCI-823-0.00

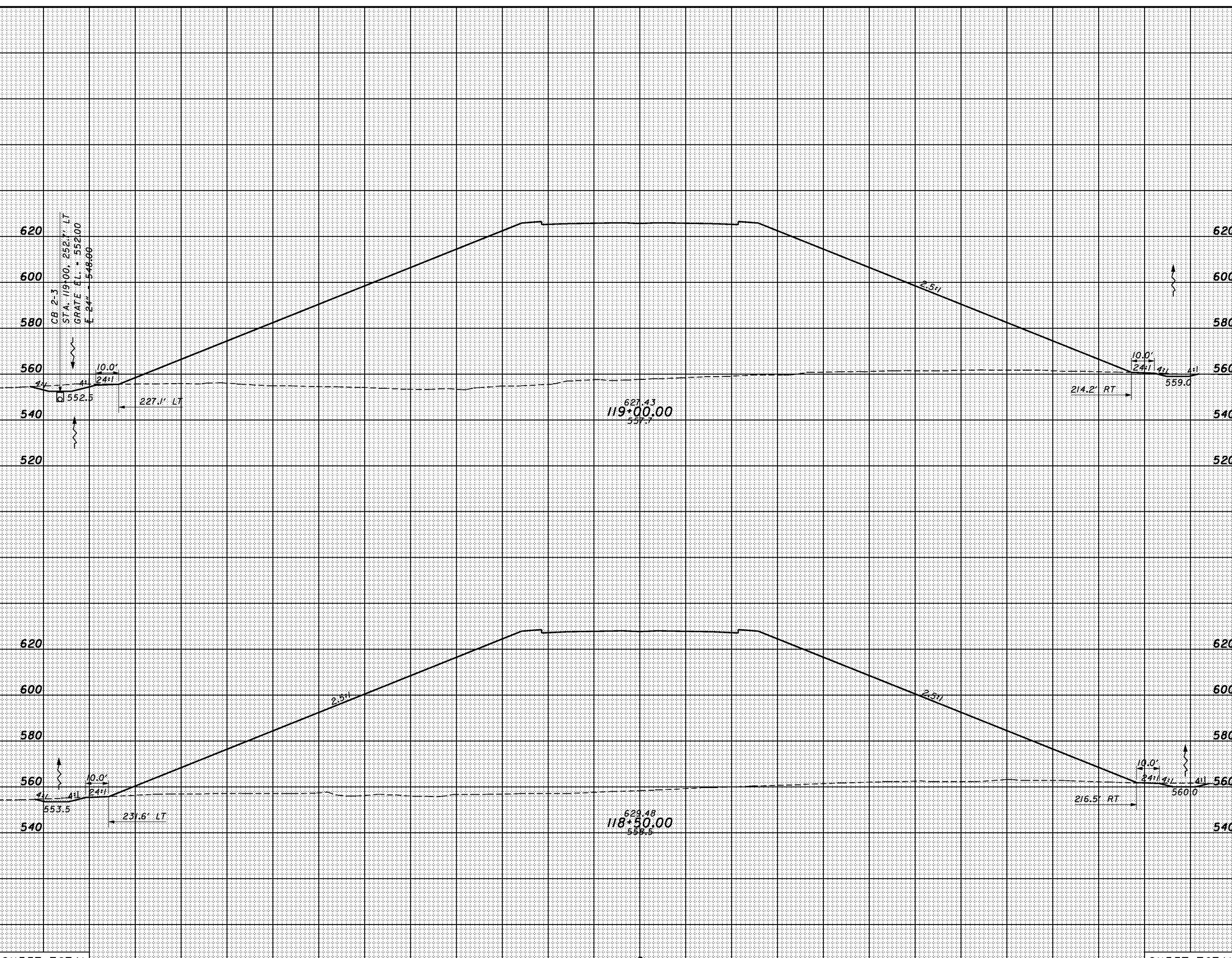
SHEET TOTAL

SHEET TOTAL

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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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SR823 - STA. 118+50.00 TO STA. 119+00.00

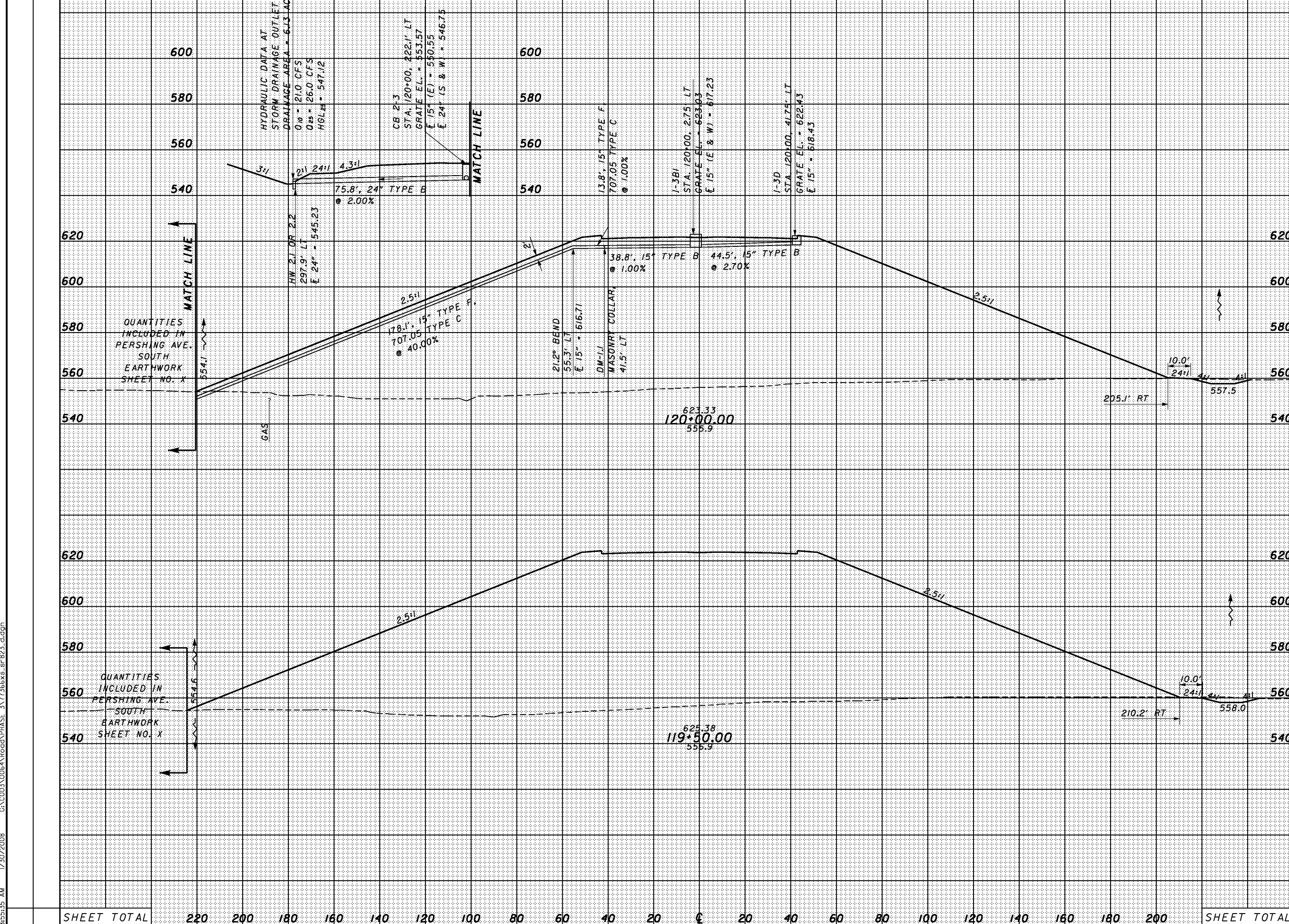
SCI-823-0.00

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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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SR823 - STA. 119+50.00 TO STA. 120+00.00

SCI-823-0.00

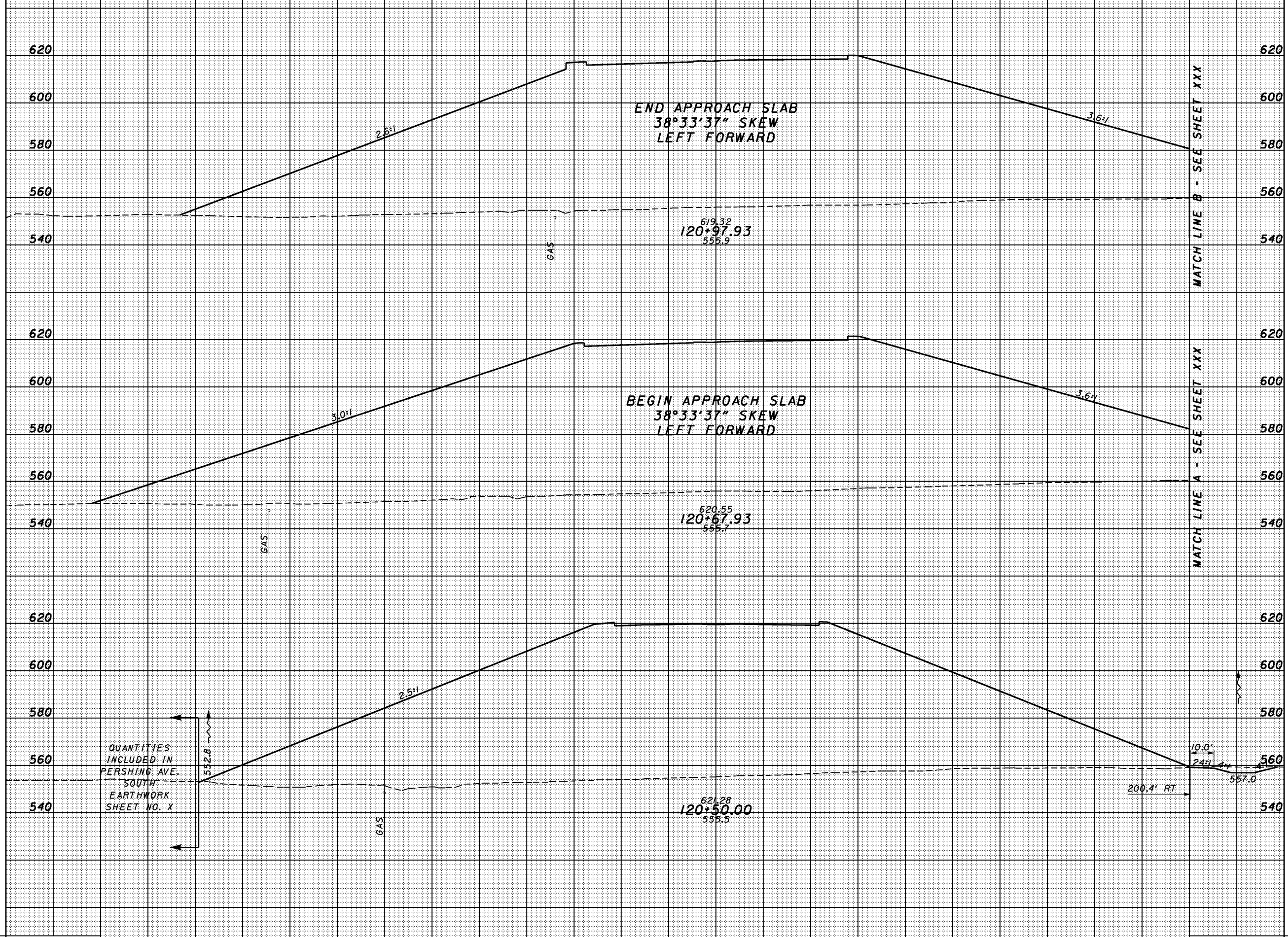
SHEET TOTAL	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	SHEET TOTAL
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SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

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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. 120+50.00 TO STA. 120+97.93

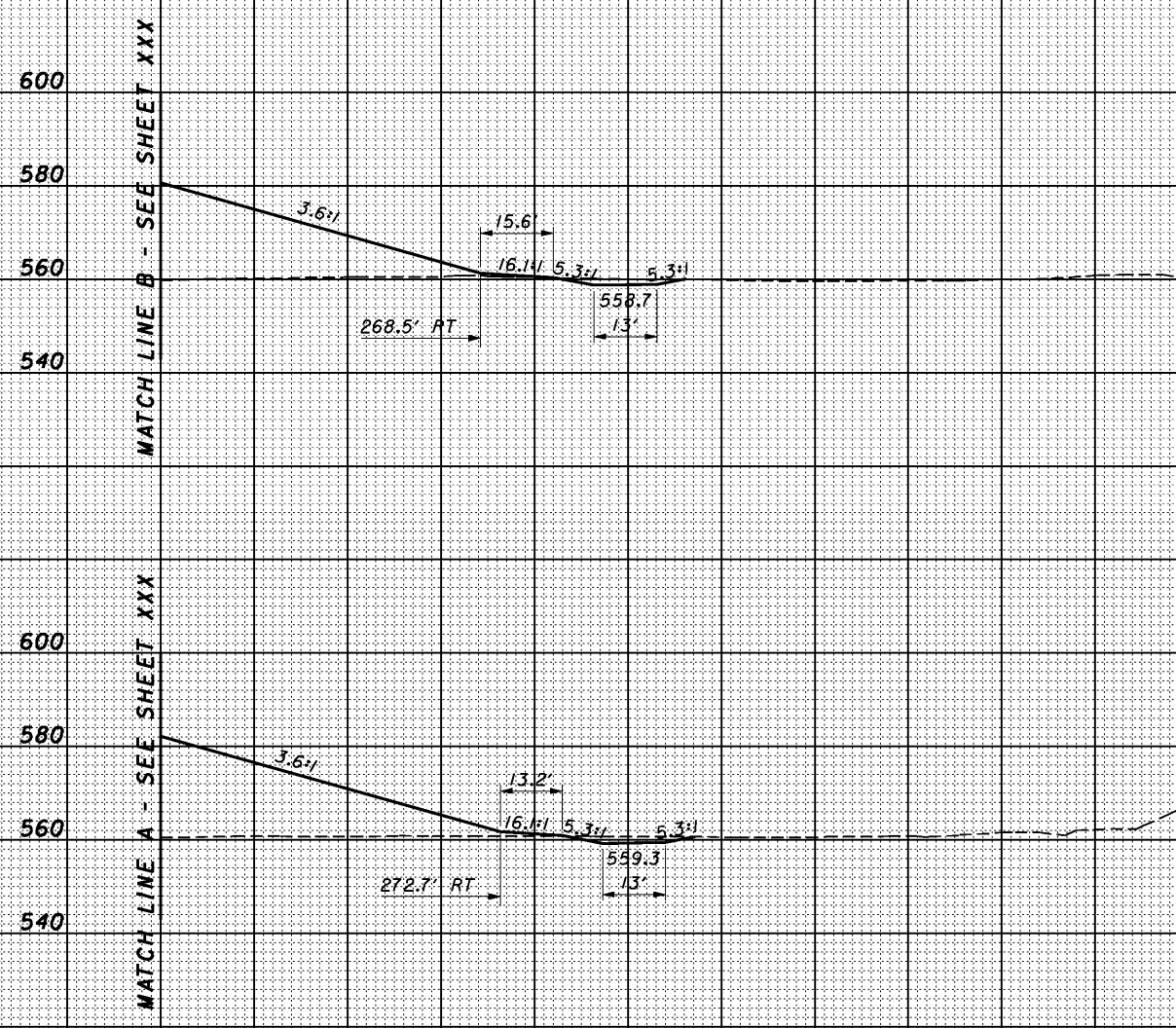
SCI-823-0.00



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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL

200 220 240 260 280 300 320 340 360 380 400 420

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 120+50.00 TO STA. 120+97.93

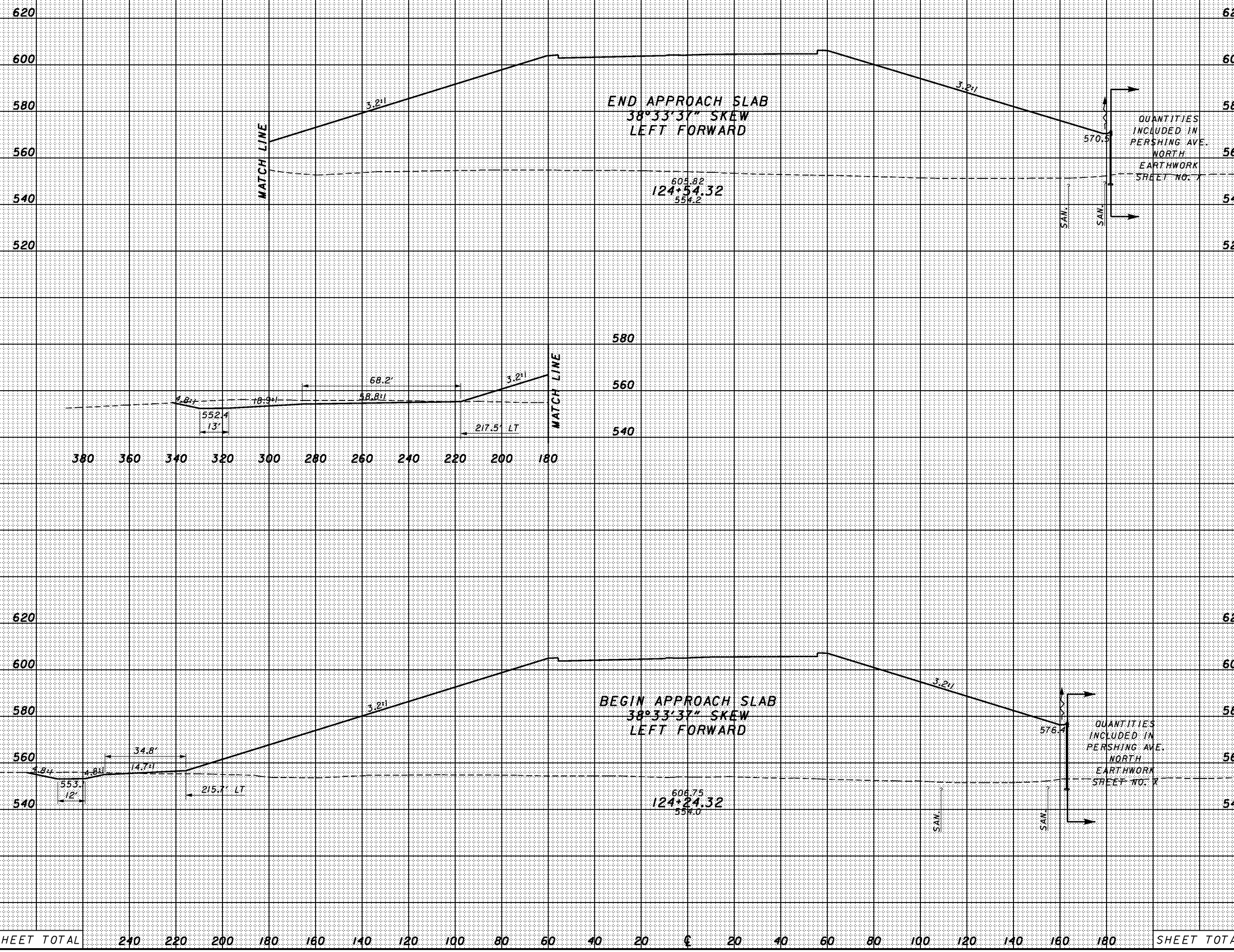
SCI-823-0.00

SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

620  
600  
580  
560  
540  
520

620  
600  
580  
560  
540  
520



CROSS SECTIONS  
SR823 - STA. 124+24.32 TO STA. 124+54.32

SCI-823-0.00

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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 WIDTH	SO. YDS.

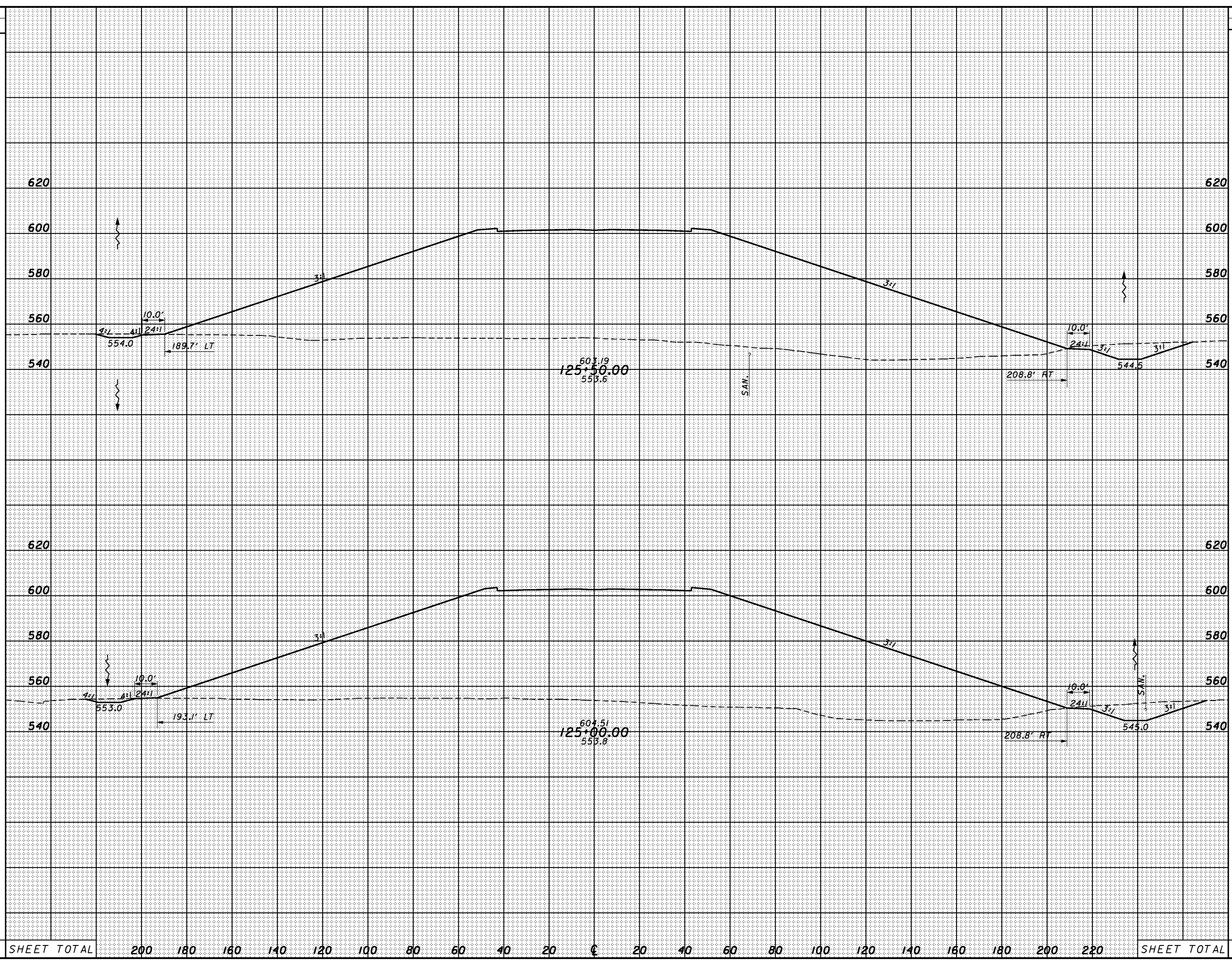
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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SR823 - STA. 125+00.00 TO STA. 125+50.00

SCI-823-0.00

205



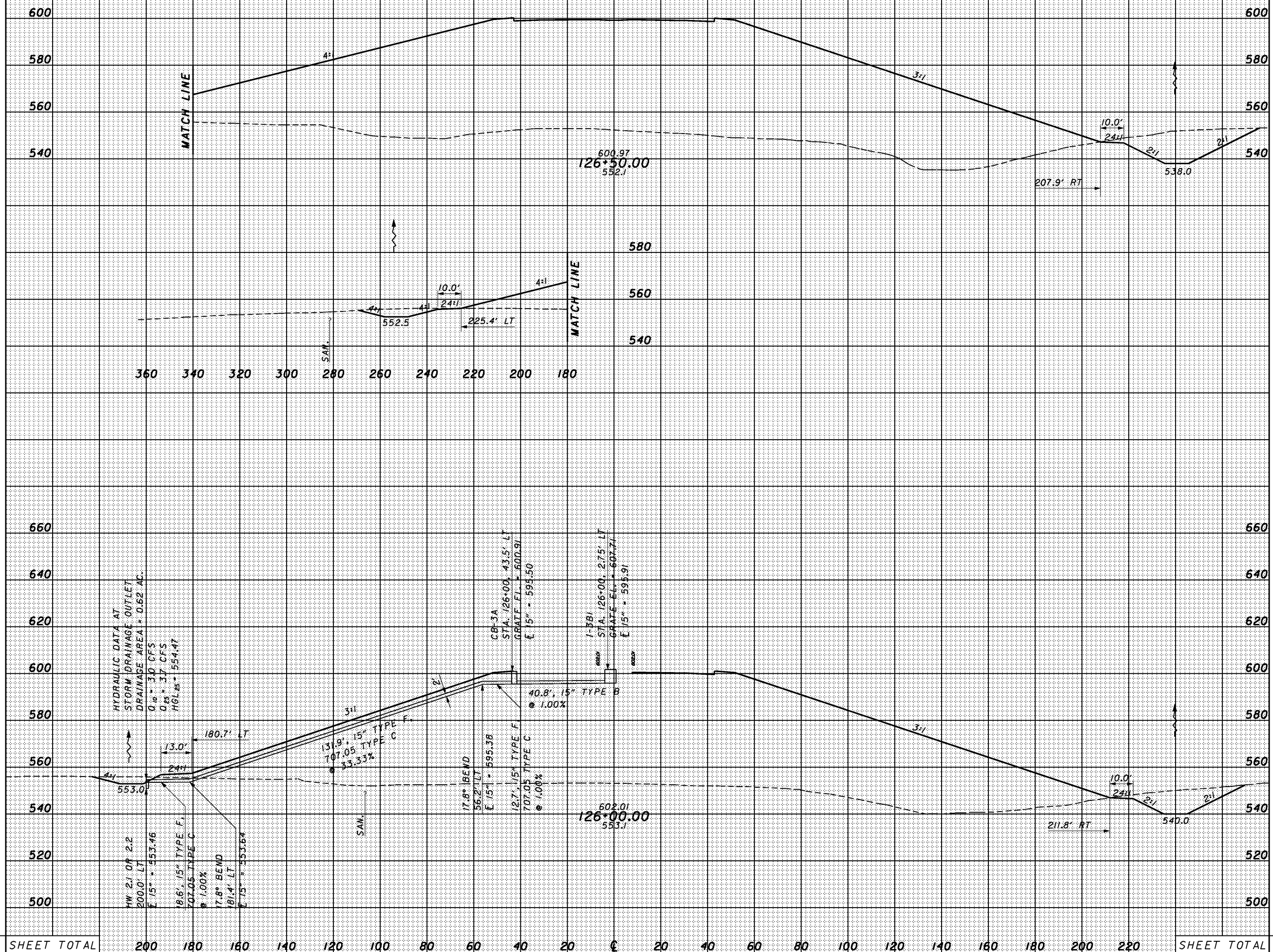
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING  
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 126+00.00 TO STA. 126+50.00

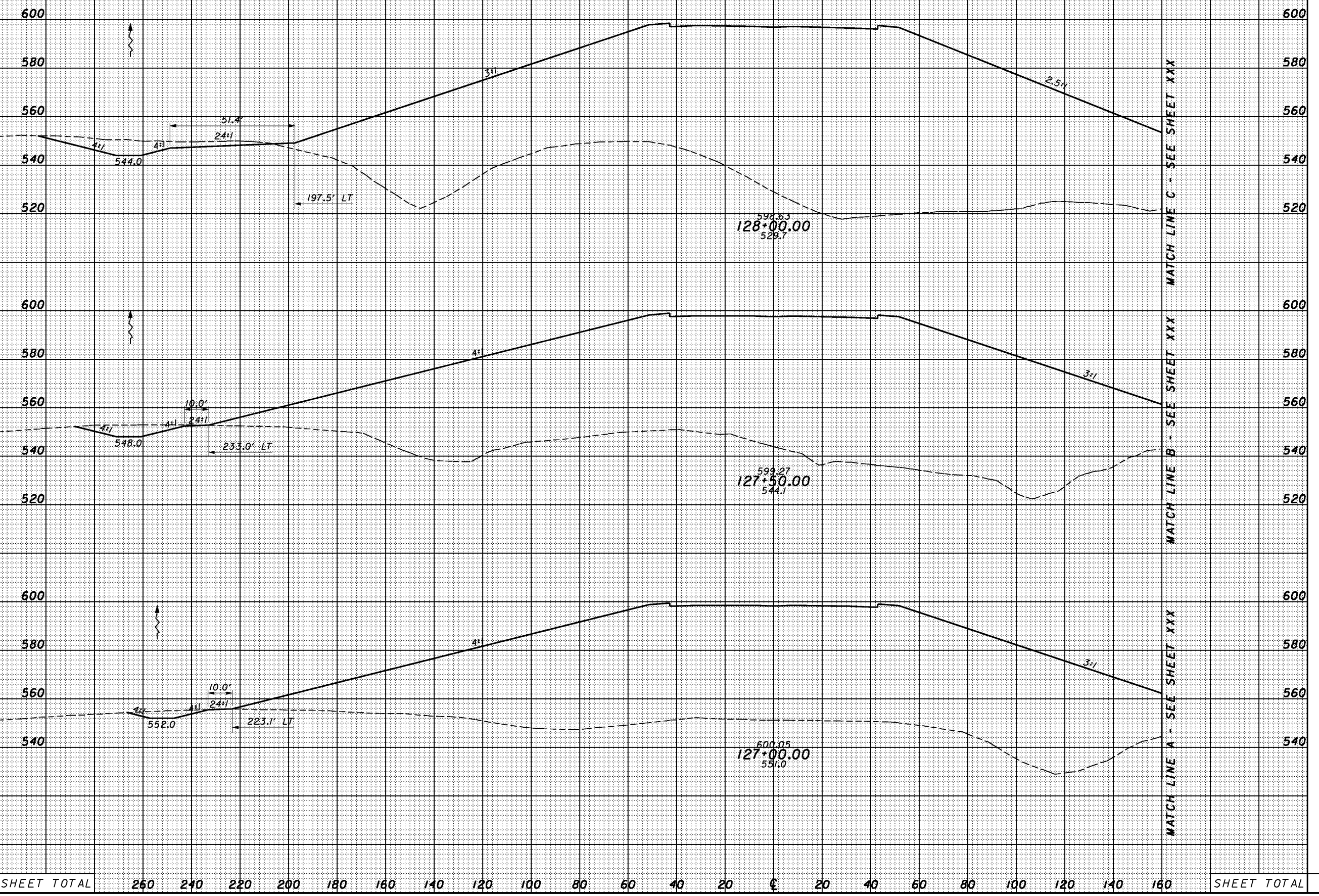
SCI-823-0.00



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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS  
 SR823 - STA. 127+00.00 TO STA. 128+00.00

SCI-823-0.00

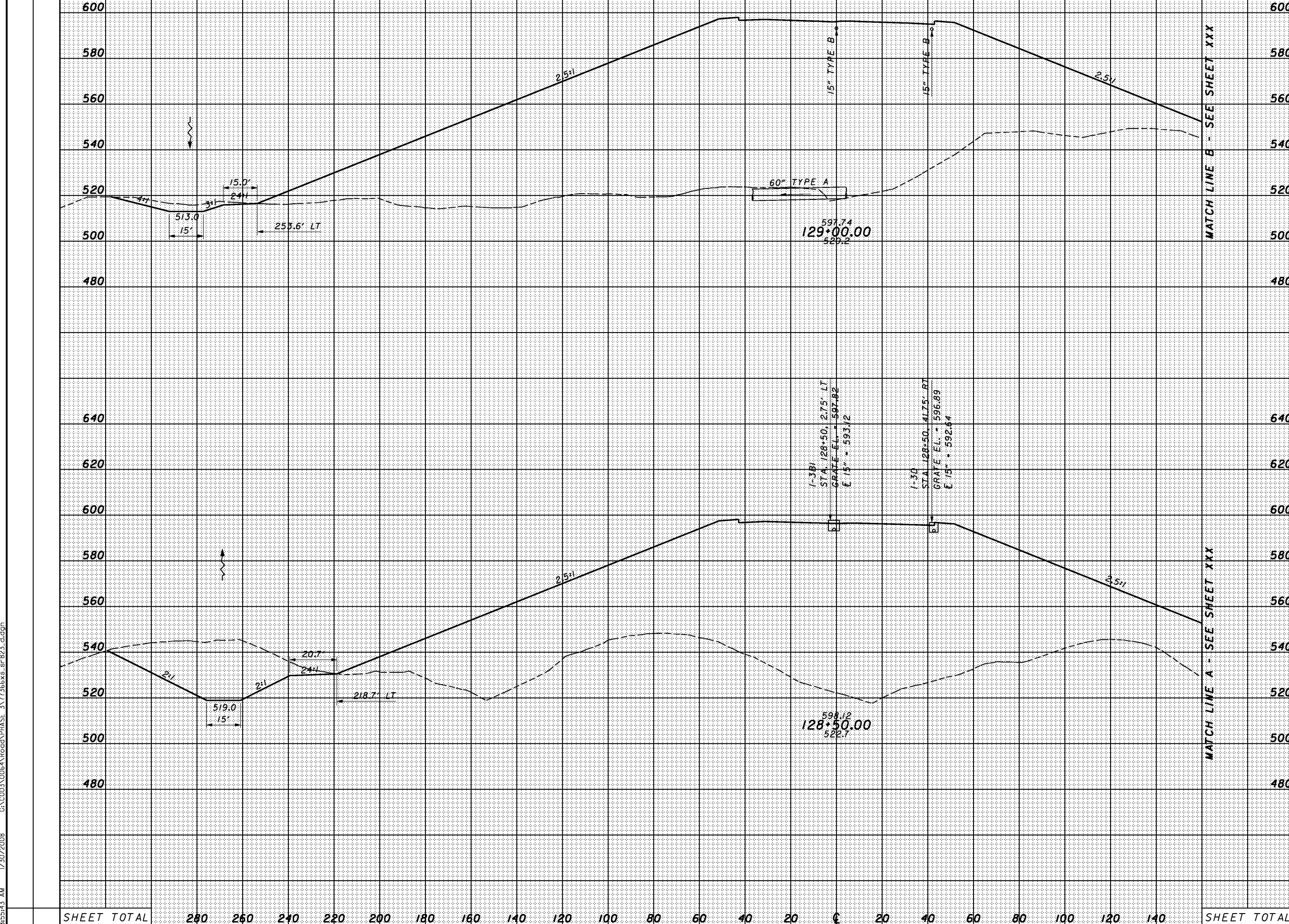


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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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600	600
580	580
560	560
540	540
520	520
500	500
480	480
640	640
620	620
600	600
580	580
560	560
540	540
520	520
500	500
480	480
SHEET TOTAL	SHEET TOTAL

CROSS SECTIONS  
 SR823 - STA. 128+50.00 TO STA. 129+00.00

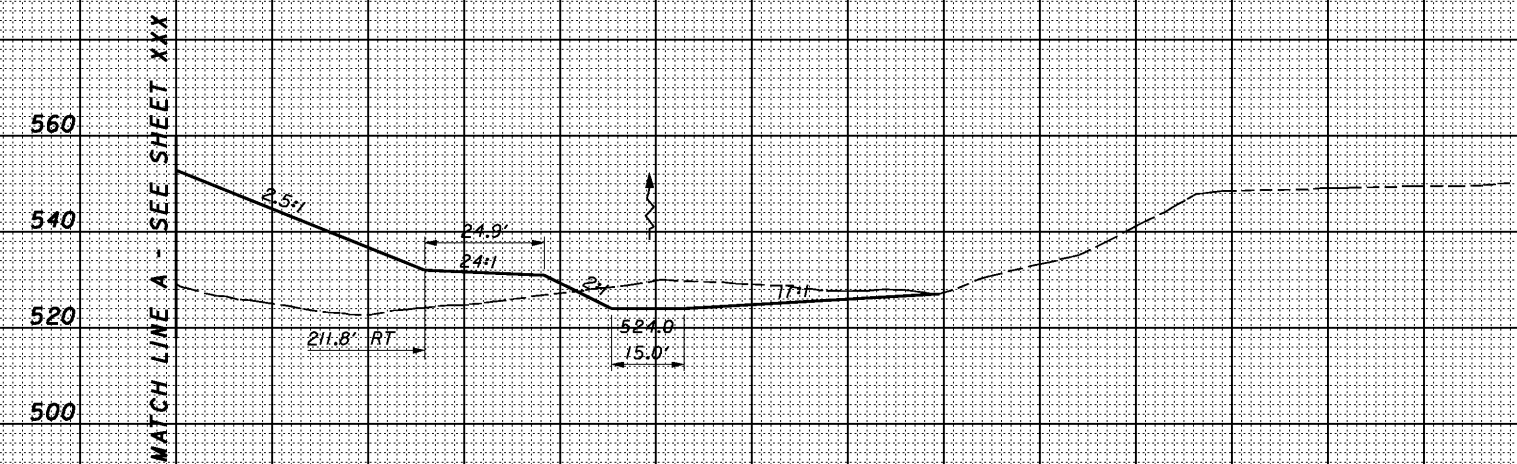
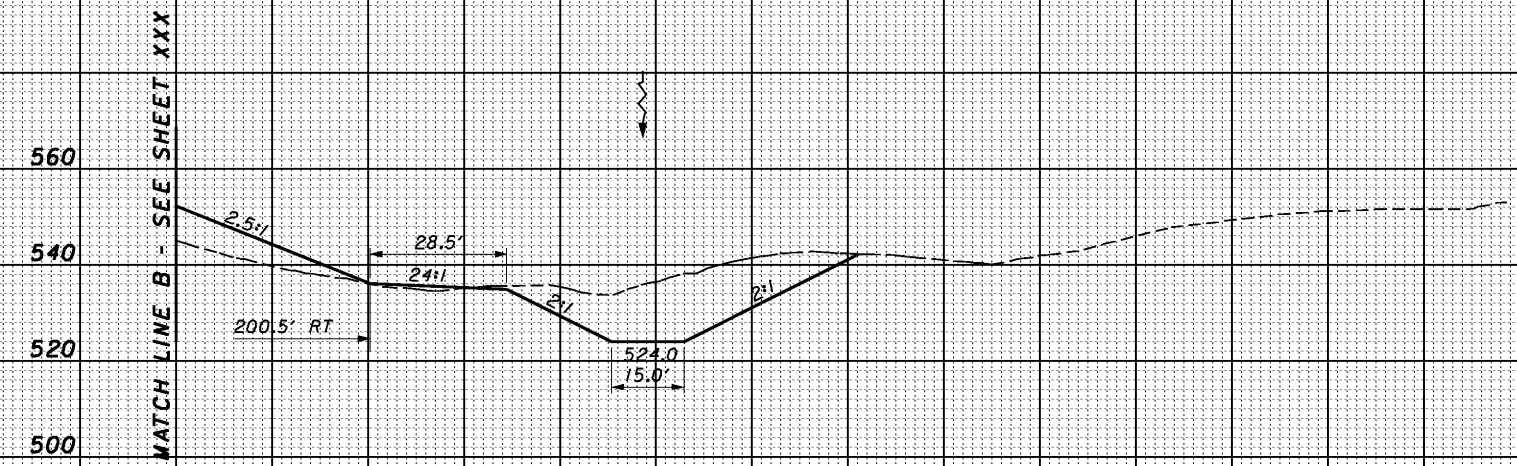
SCI-823-0.00



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SEEDING  
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL

160 180 200 220 240 260 280 300 320 340 360 380 400 420 440

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 128+50.00 TO STA. 129+00.00

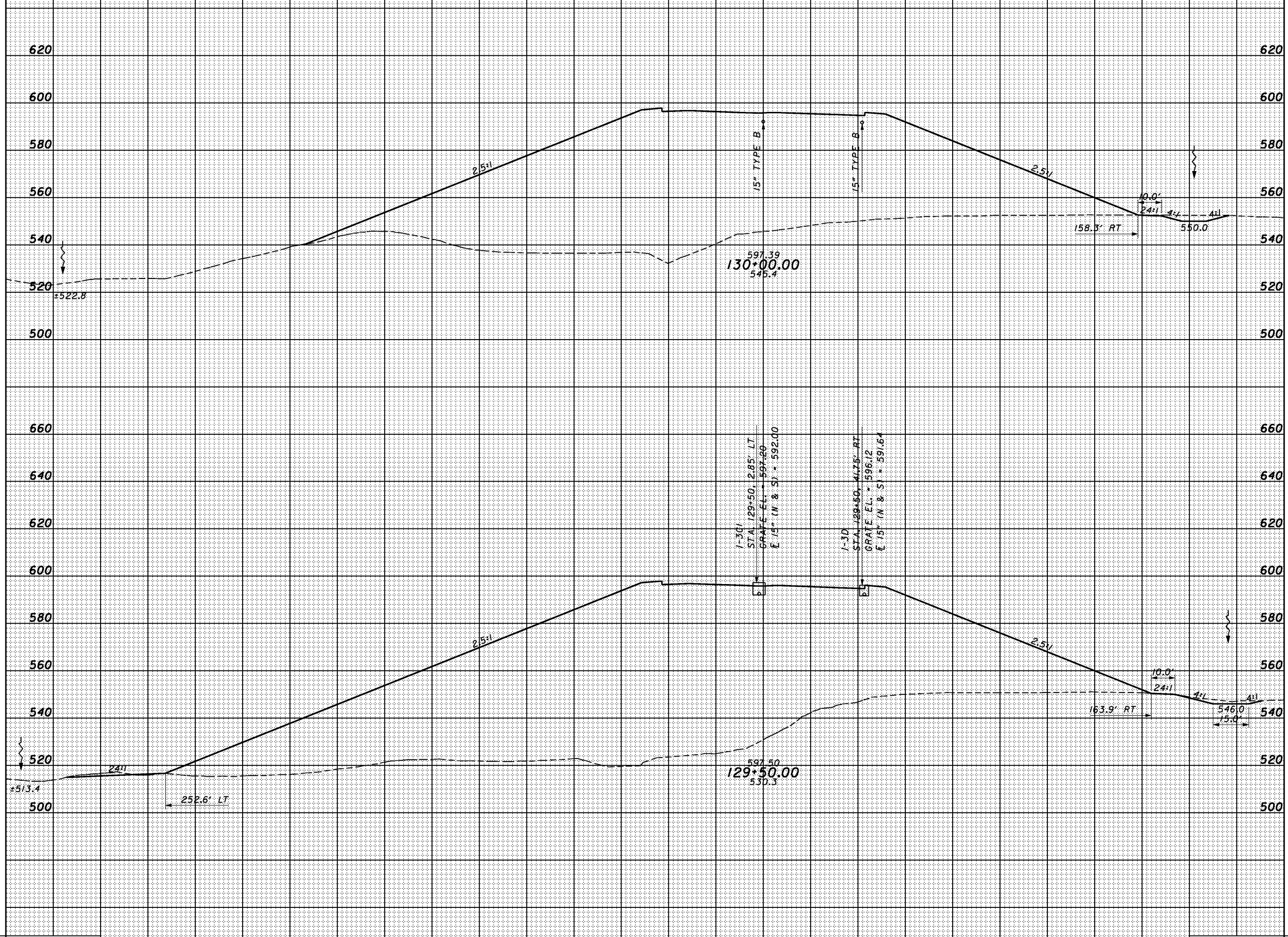
SCI-823-0.00



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SEEDING  
END WIDTH SO. 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
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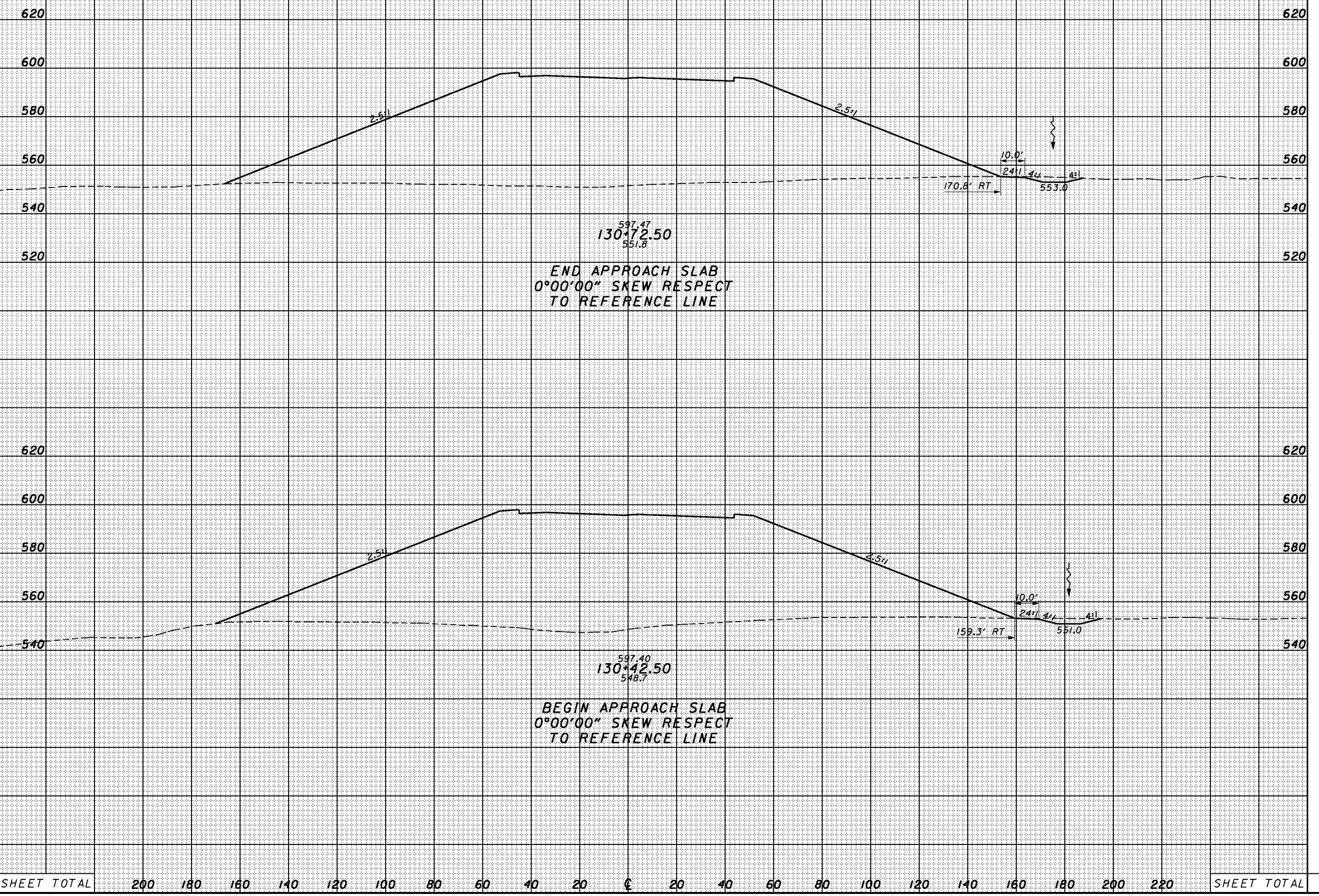
CROSS SECTIONS  
SR823 - STA. 129+50.00 TO STA. 130+00.00

SCI-823-0.00

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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  
 SR823 - STA. 130+42.74 TO STA. 130+72.74

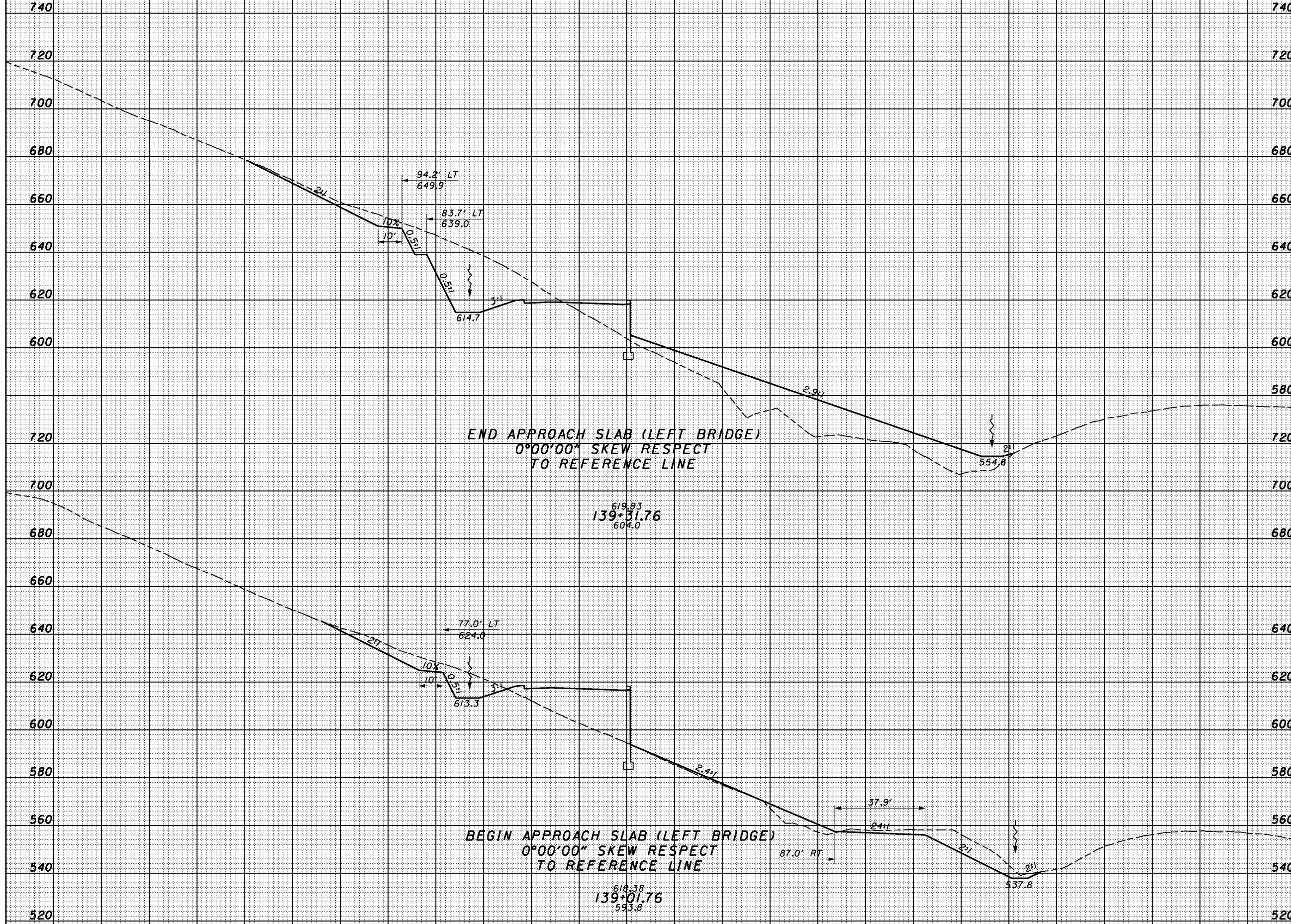
SCI-823-0.00

SEEDING  
END SO.  
WIDTH YDS.

END AREA  
CUT FILL  
VOLUME  
CUT FILL  
CALCULATED  
CHECKED

740  
720  
700  
680  
660  
640  
620  
600  
580  
720  
700  
680  
660  
640  
620  
600  
580  
560  
540  
520

740  
720  
700  
680  
660  
640  
620  
600  
580  
720  
700  
680  
660  
640  
620  
600  
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  
SR823 - STA. 139+01.76 TO STA. 139+31.76

SCI-823-0.00

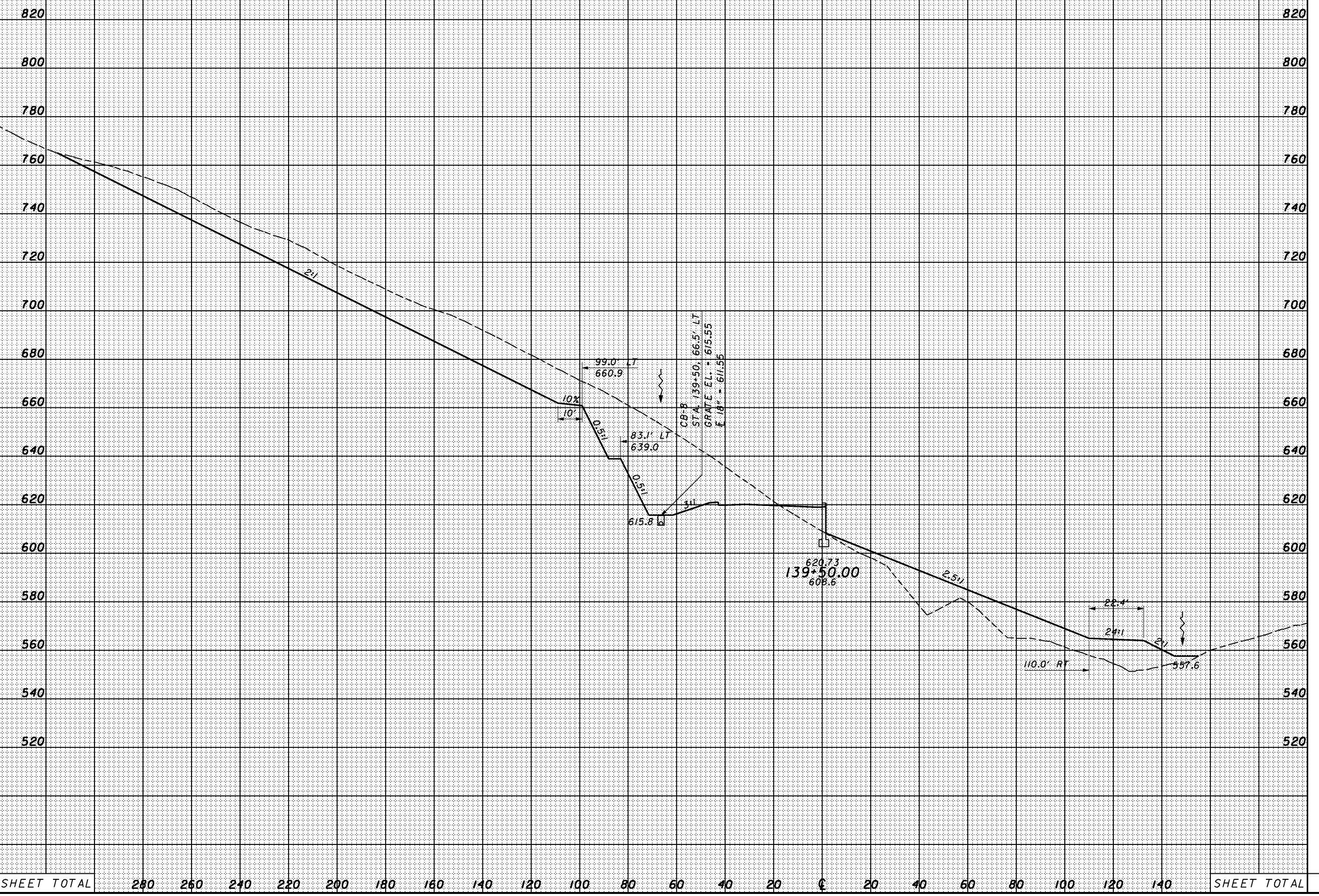
8/5/07 11:30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823.dwg



8:55:48 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823.dwg

SEEDING	
END WIDTH	SO. 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. 139+50.00

SCI-823-0.00

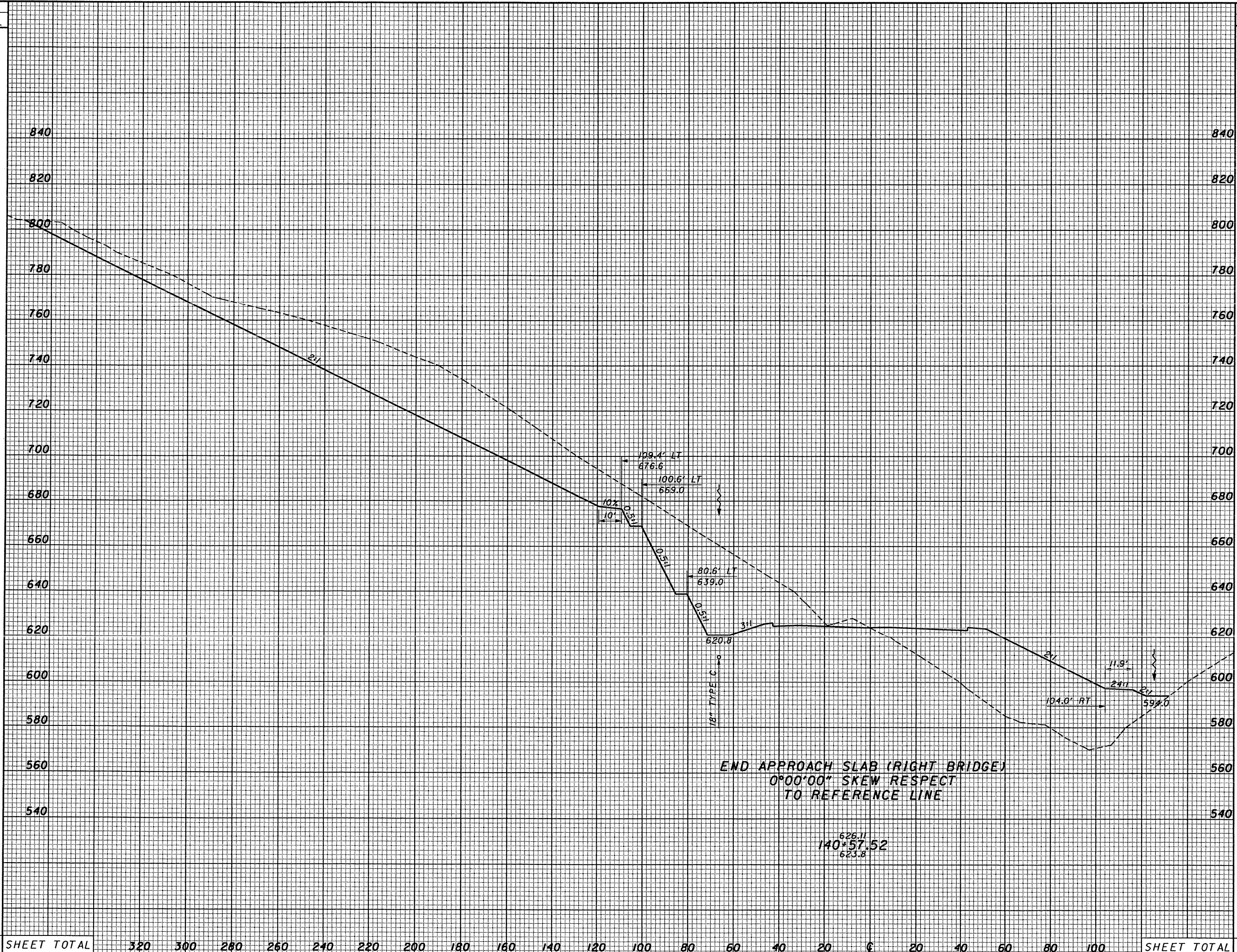






11/27/05 AM 1/23/2008 g:\C003\0064\Road\PHASE 3\177366xs\_sr823.dwg

SEEDING  
END WIDTH SO. YDS.



SHEET TOTAL	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	SHEET TOTAL
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END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		

CROSS SECTIONS  
SR823 - STA. 140+57.52

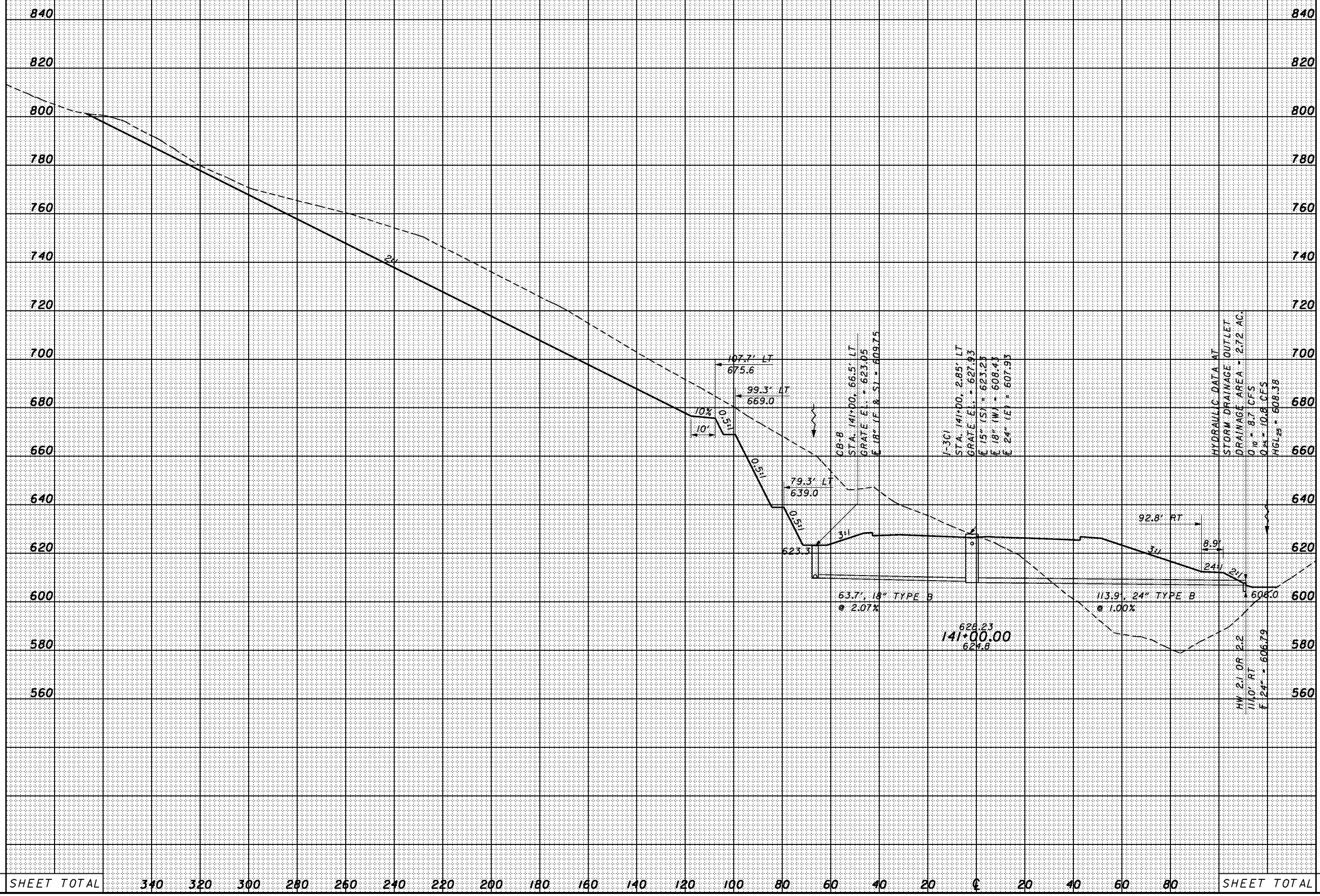
SCI-823-0.00



8:55:51 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668xs-sr-823\_d.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



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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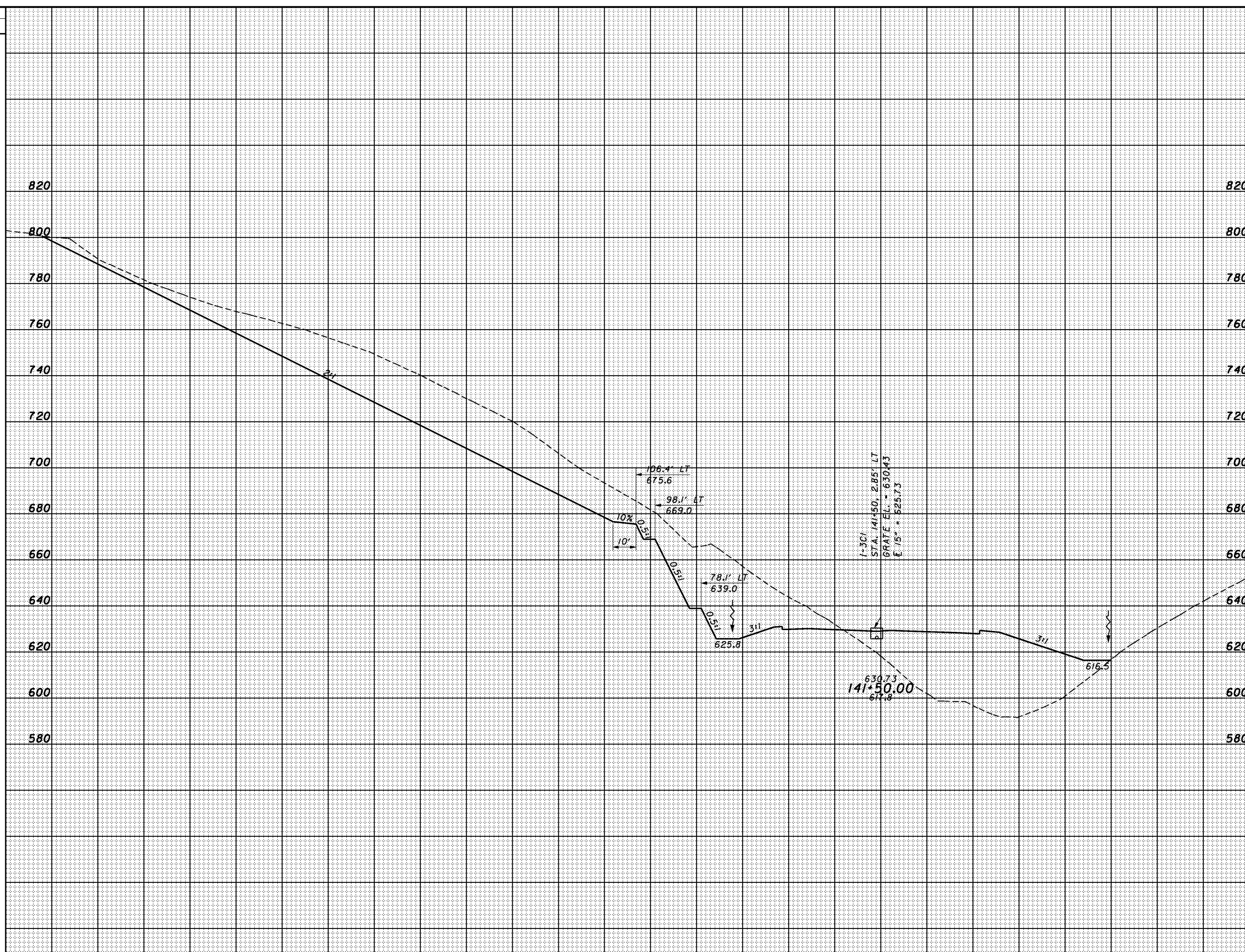
CROSS SECTIONS  
SR823 - STA. 141+00.00

SCI-823-0.00

8/5/53 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_e.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



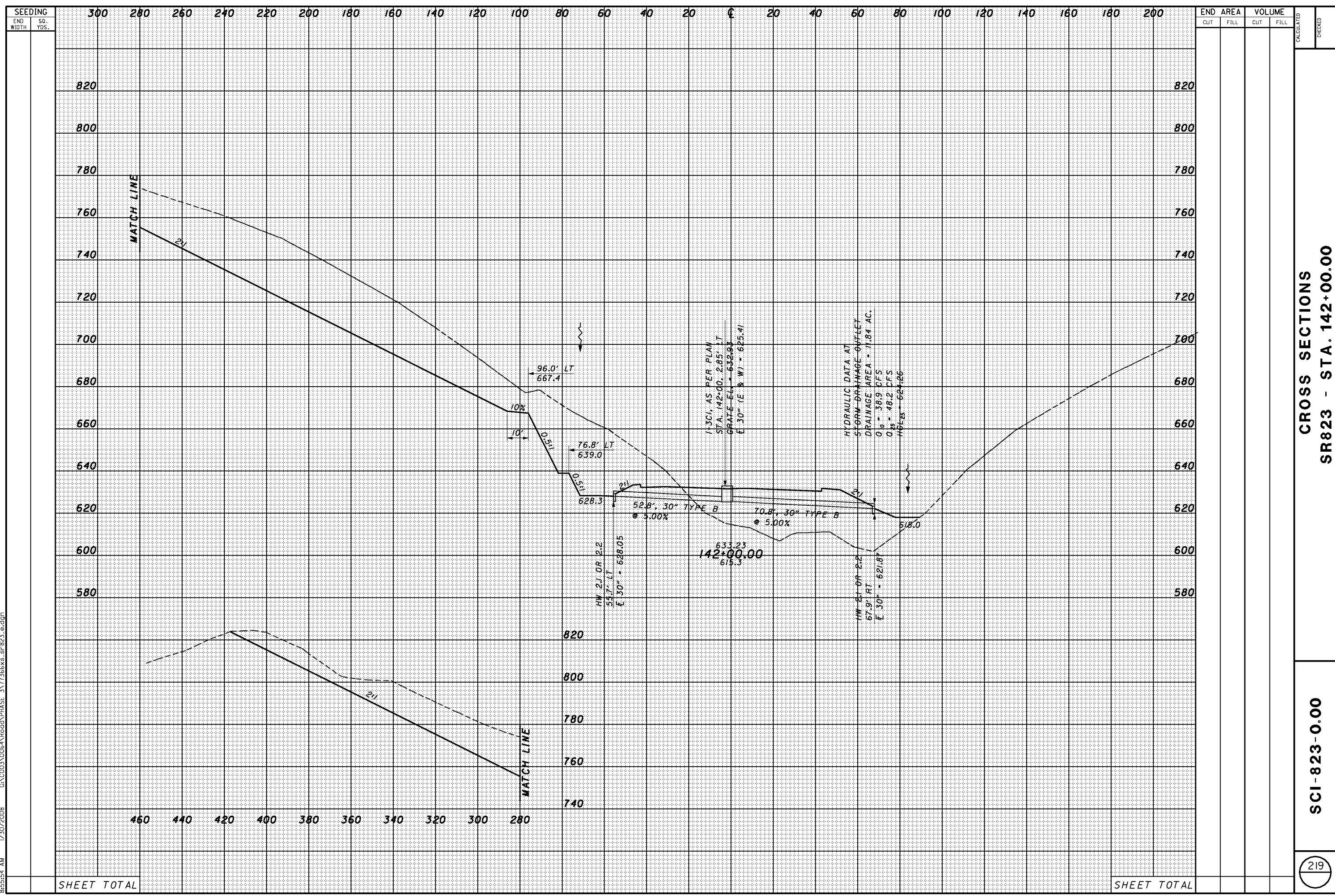
SHEET TOTAL	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	SHEET TOTAL
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CROSS SECTIONS  
SR823 - STA. 141+50.00

SCI-823-0.00



8/5/54 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_e.dgn



SHEET TOTAL

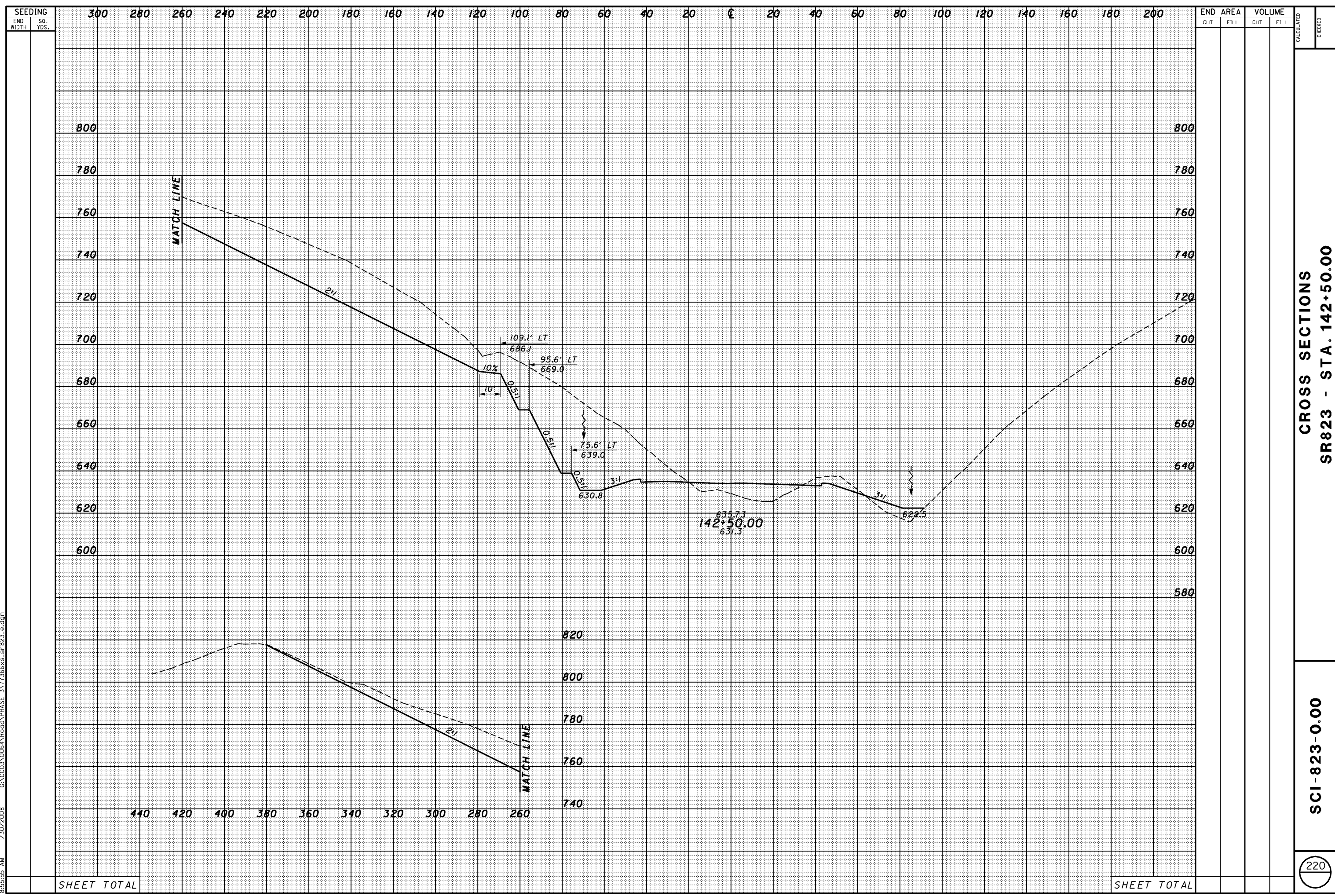
SHEET TOTAL

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

CROSS SECTIONS  
SR823 - STA. 142+00.00

SCI-823-0.00

8/5/55 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366xs-sr-823\_e.dgn



SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

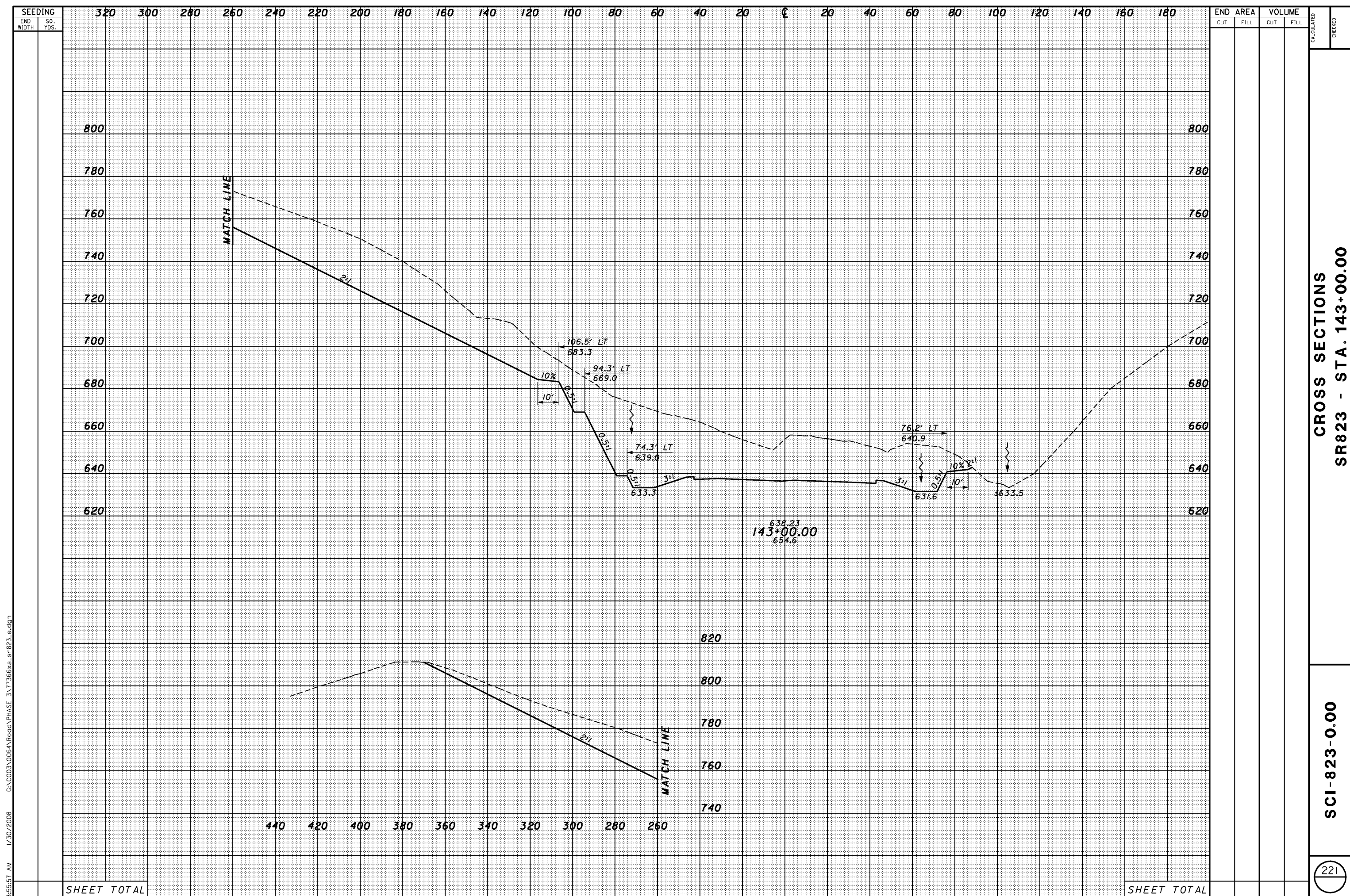
CROSS SECTIONS  
SR823 - STA. 142+50.00

SCI-823-0.00

220

SHEET TOTAL

SHEET TOTAL



END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		
<b>CROSS SECTIONS</b> <b>SR823 - STA. 143+00.00</b>					
<b>SCI-823-0.00</b>					
<span style="border: 1px solid black; border-radius: 50%; padding: 5px;">221</span>					

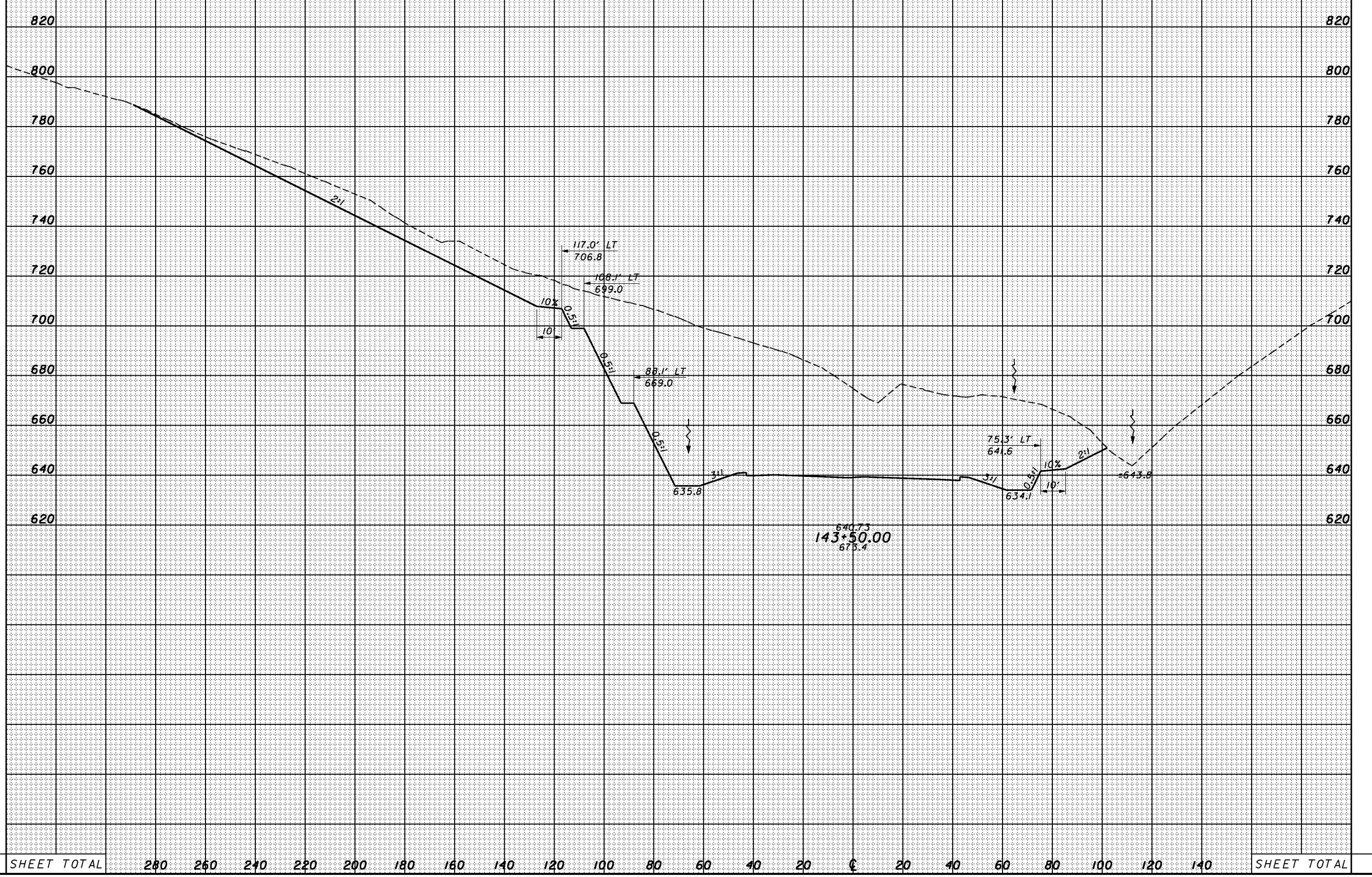
1/30/2008 G:\C003\0064\Road\PHASE 3\171366xs-sr-823\_e.dgn  
 8:55:57 AM



8:55:57 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366xs-sr-823\_e.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS  
SR823 - STA. 143+50.00

SCI-823-0.00

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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8:55:58 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823\_e.dgn

SEEDING	
END WIDTH	SO. YDS.

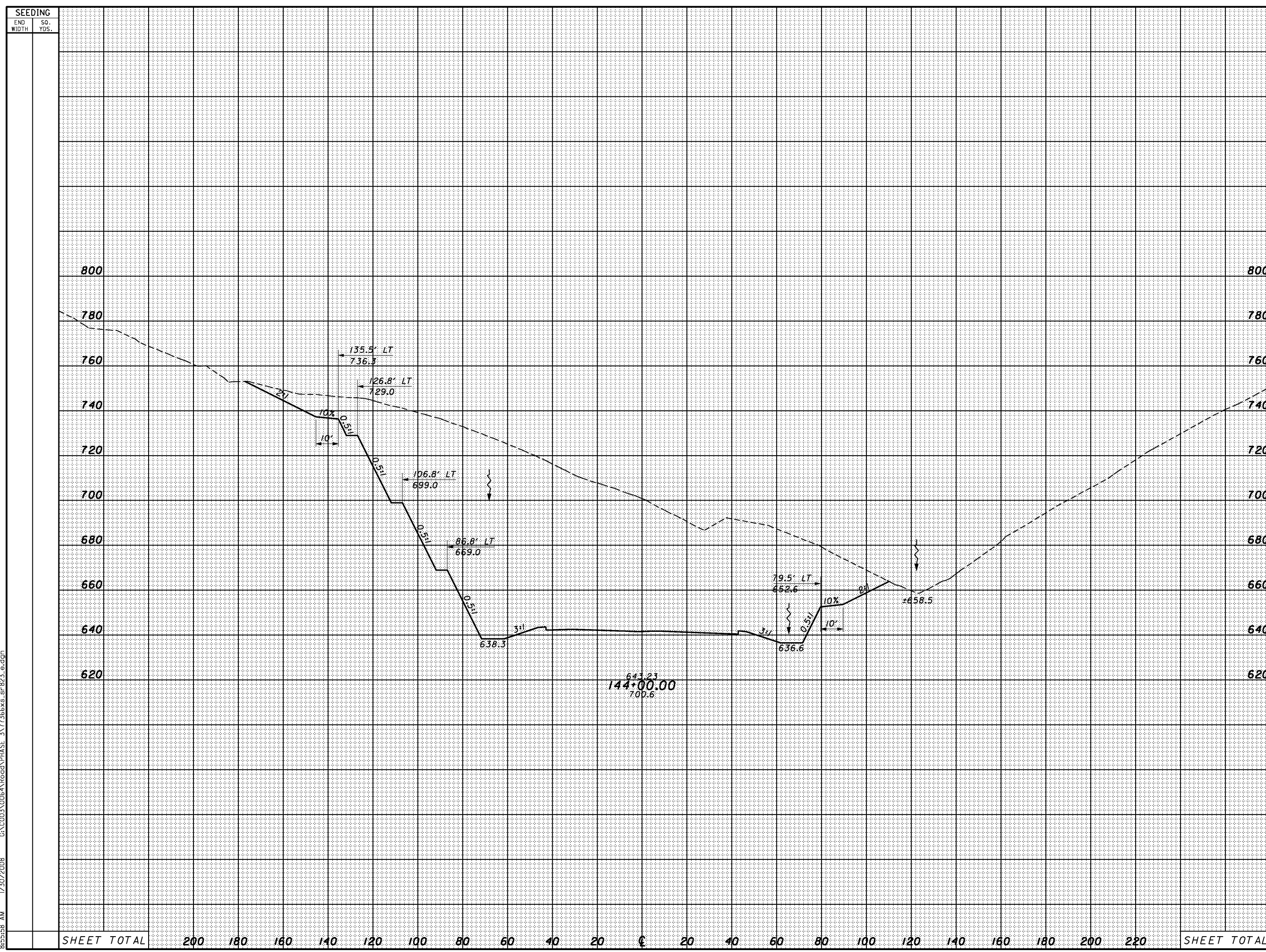
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 144+00.00

SCI-823-0.00

223



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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8:55:59 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_e.dgn

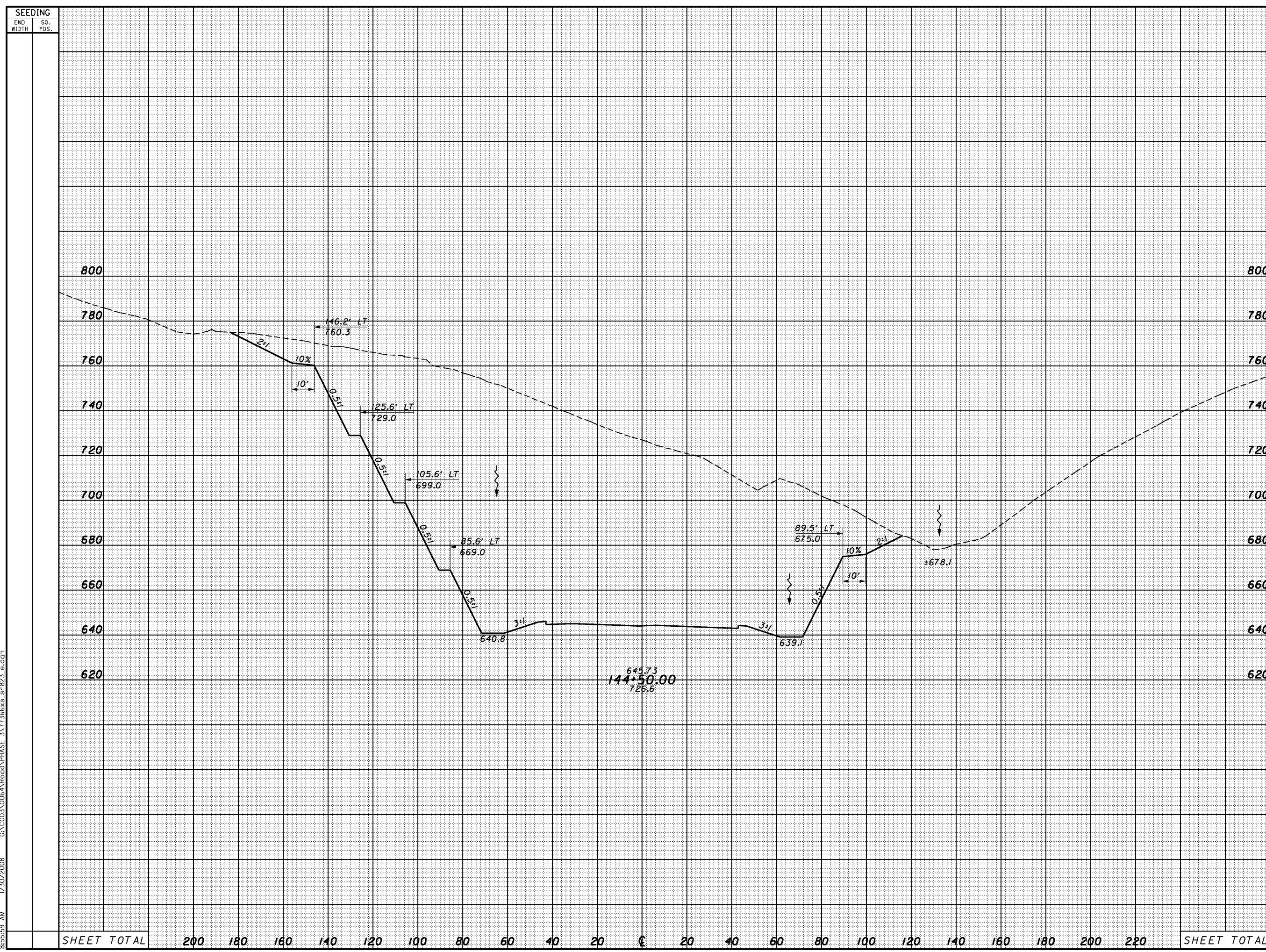
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 144+50.00

SCI-823-0.00

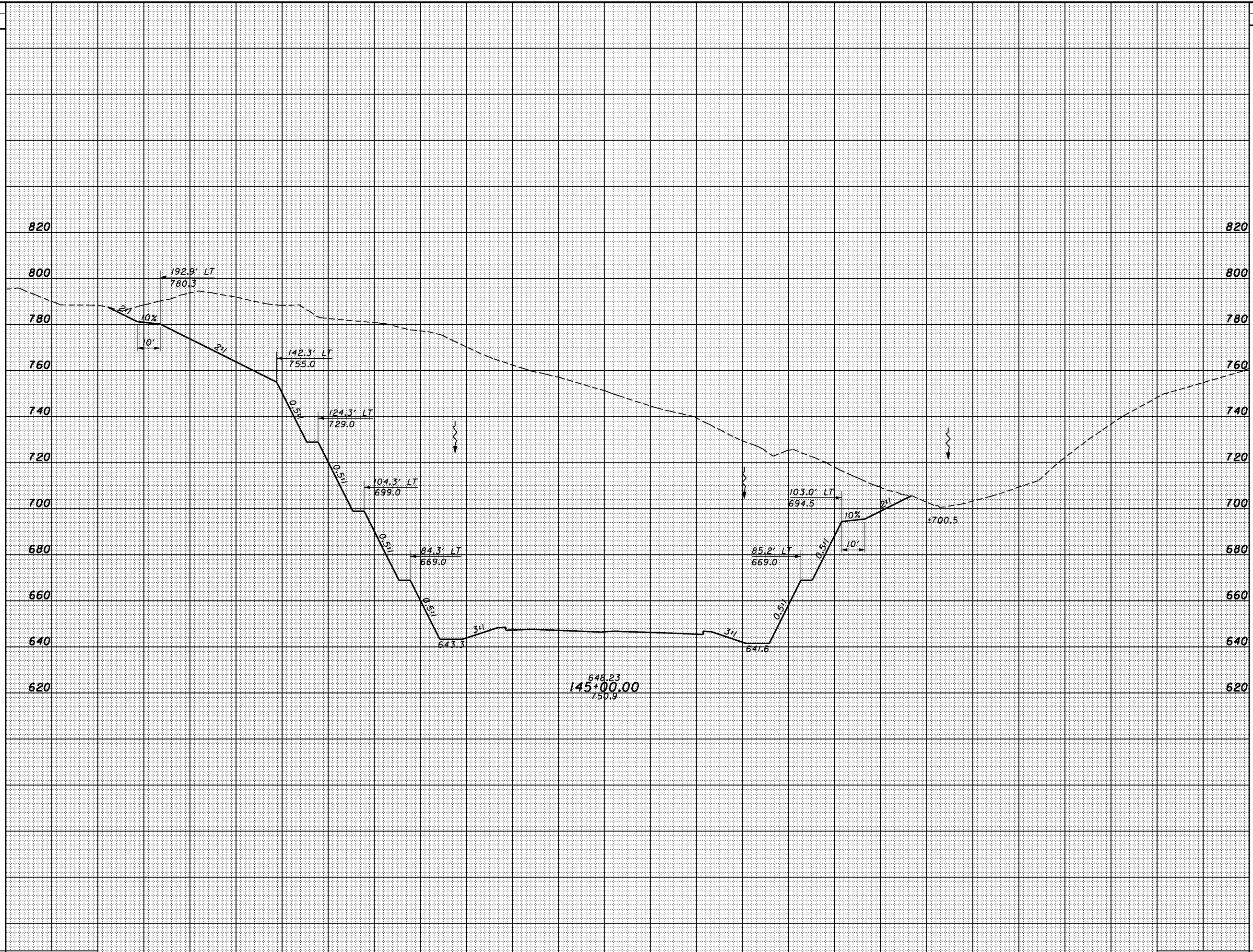


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	CL	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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8:56:00 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13666xs-sr-823\_e.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS  
SR823 - STA. 145+00.00

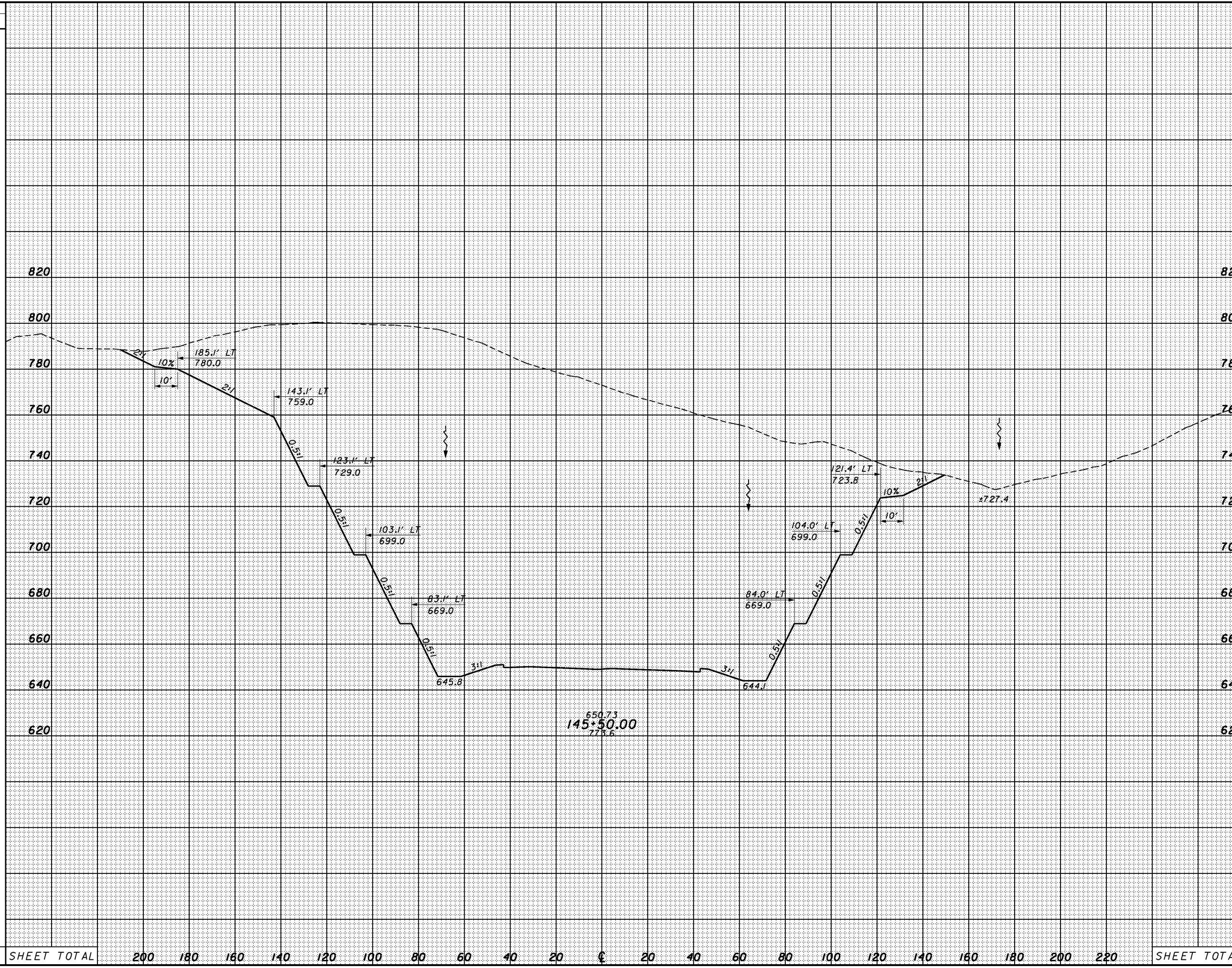
SCI-823-0.00



SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8/5/2008 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_e.dgn



**CROSS SECTIONS**  
**SR823 - STA. 145+50.00**

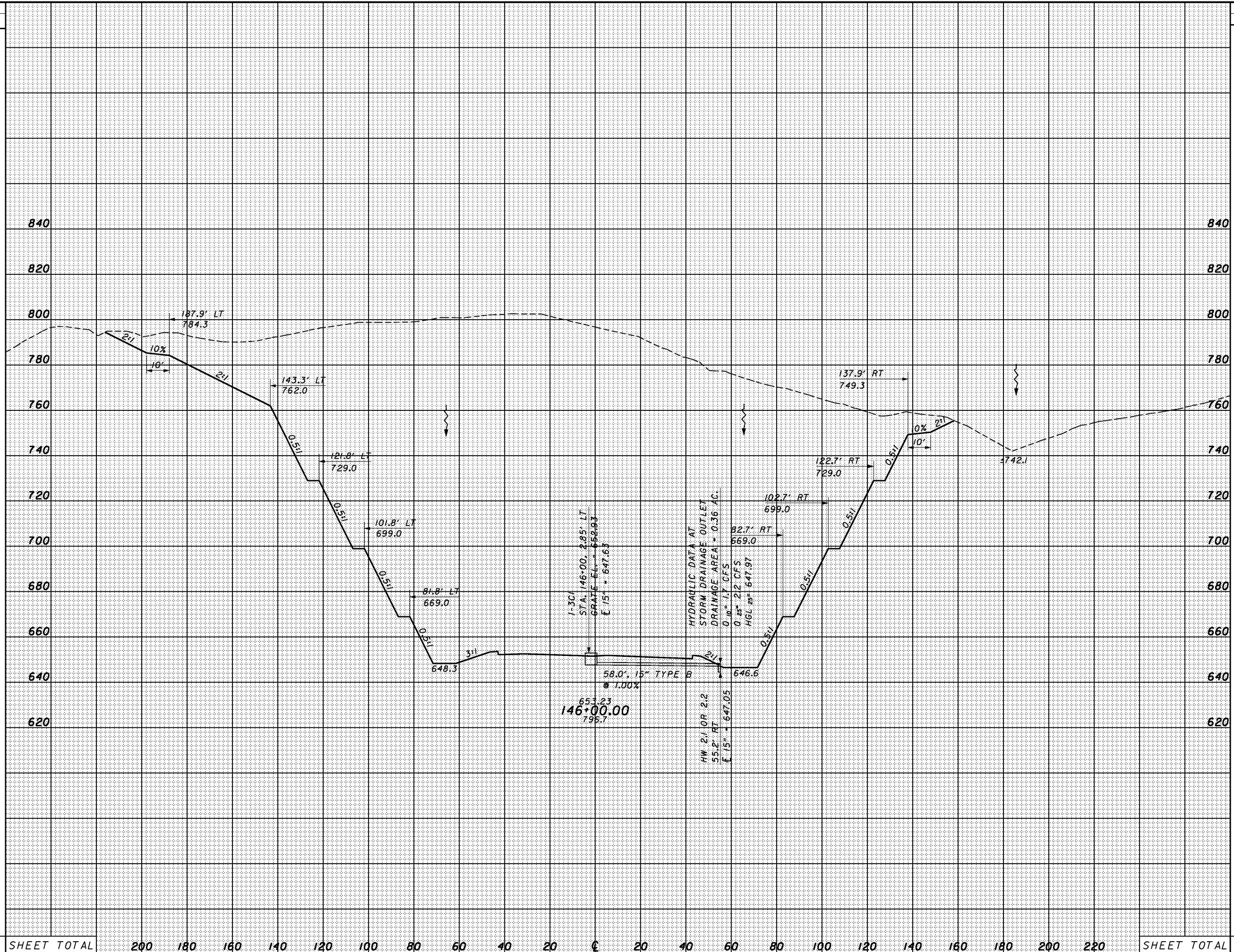
**SCI-823-0.00**



8/5/02 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_e.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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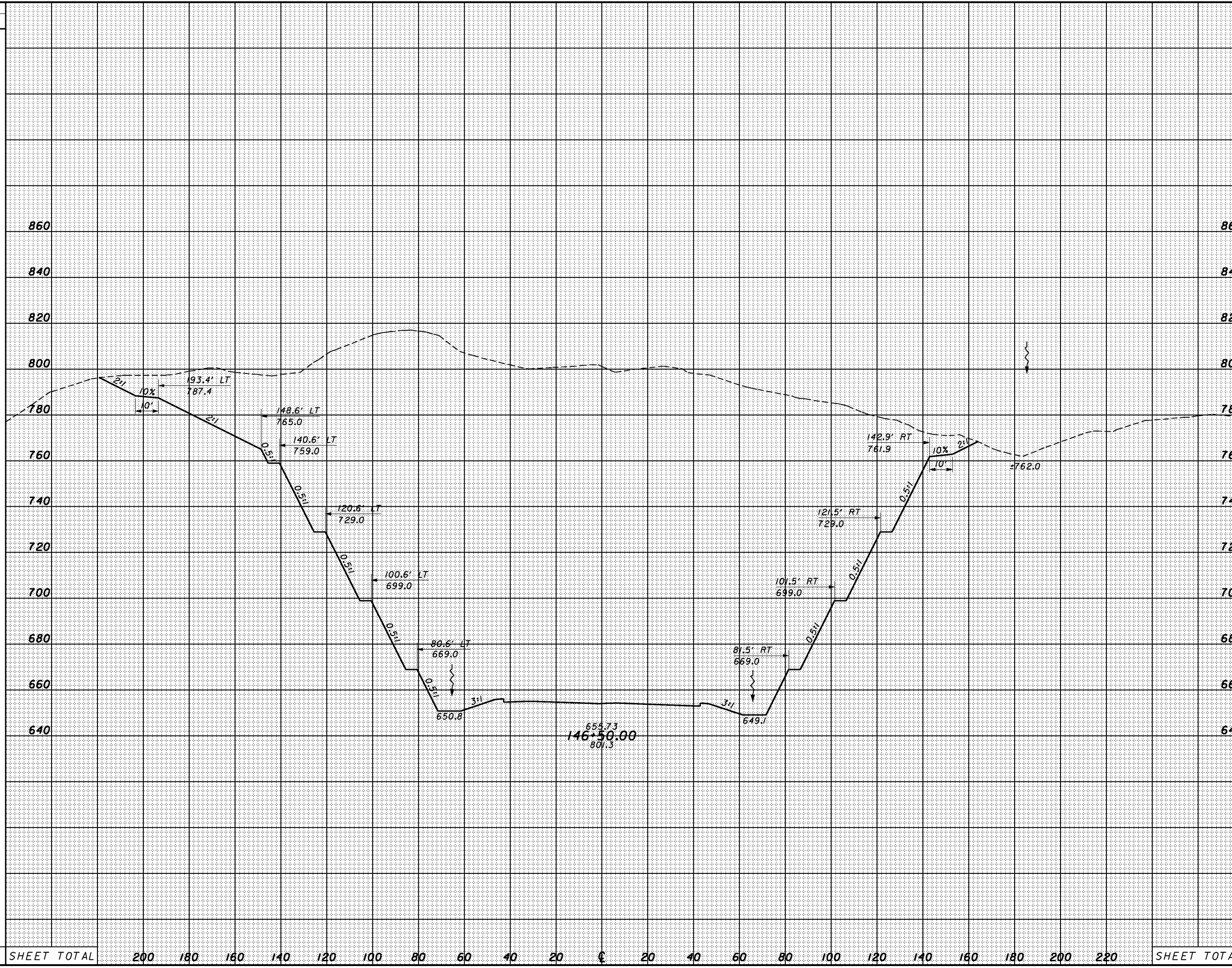
**CROSS SECTIONS**  
**SR823 - STA. 146+00.00**

**SCI-823-0.00**

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8:56:03 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13666xs-sr-823\_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

CROSS SECTIONS  
SR823 - STA. 146+50.00

SCI-823-0.00





8:56:06 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_e.dgn

SEEDING	
END WIDTH	SO. YDS.

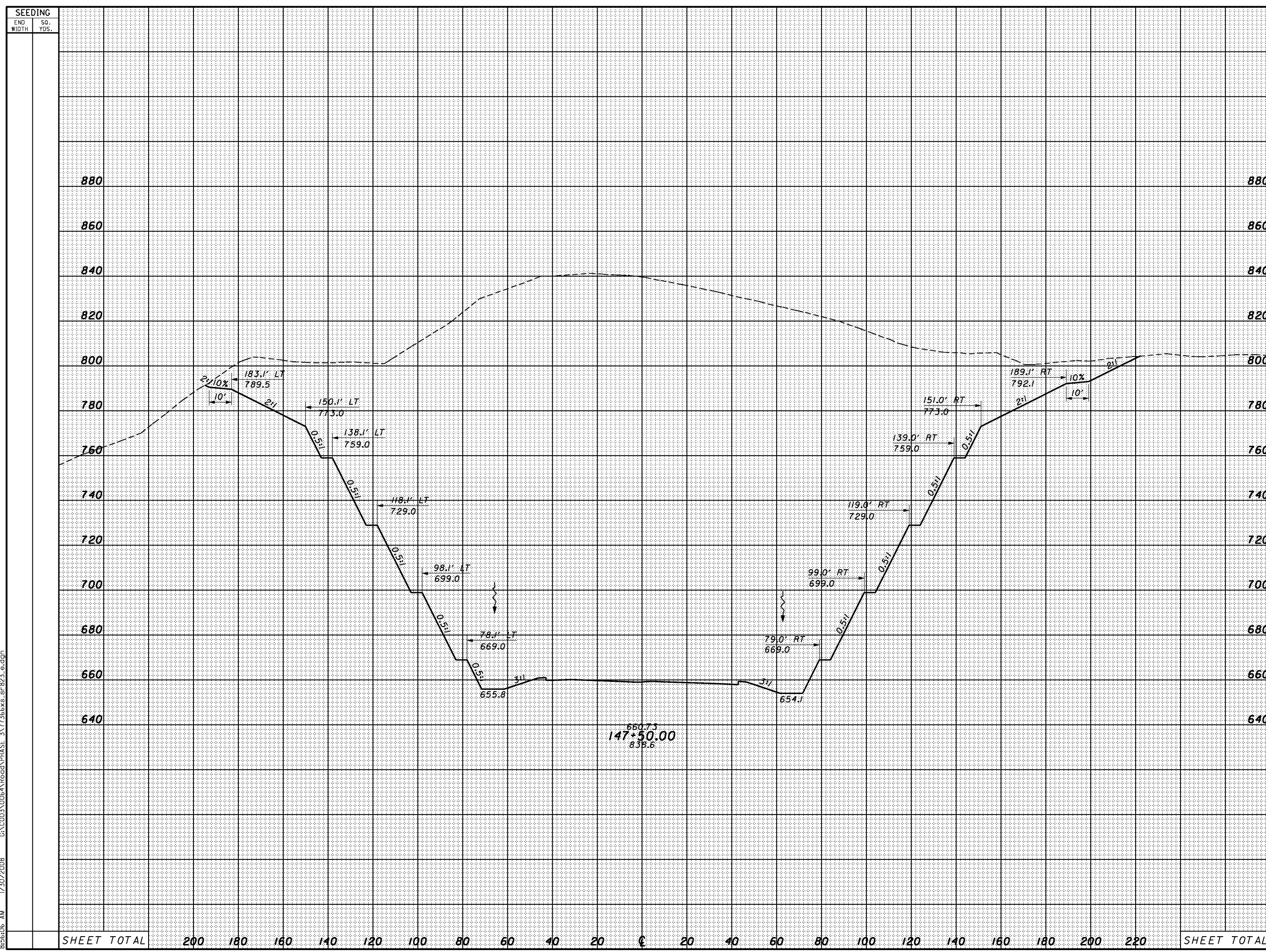
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 147+50.00

SCI-823-0.00

230



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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8/5/07 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_e.dgn

SEEDING	
END WIDTH	SO. YDS.

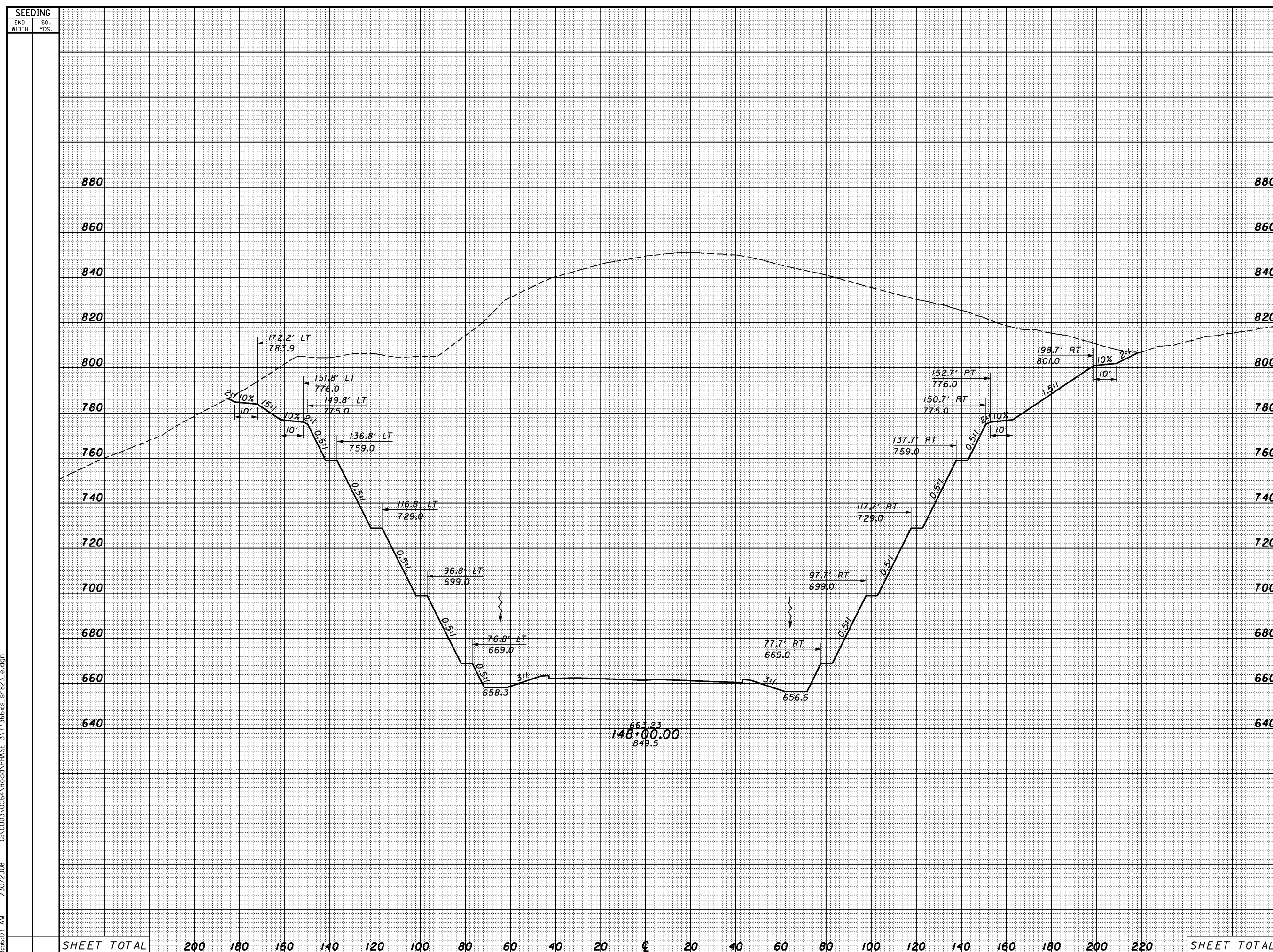
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
 SR823 - STA. 148+00.00

SCI-823-0.00

231

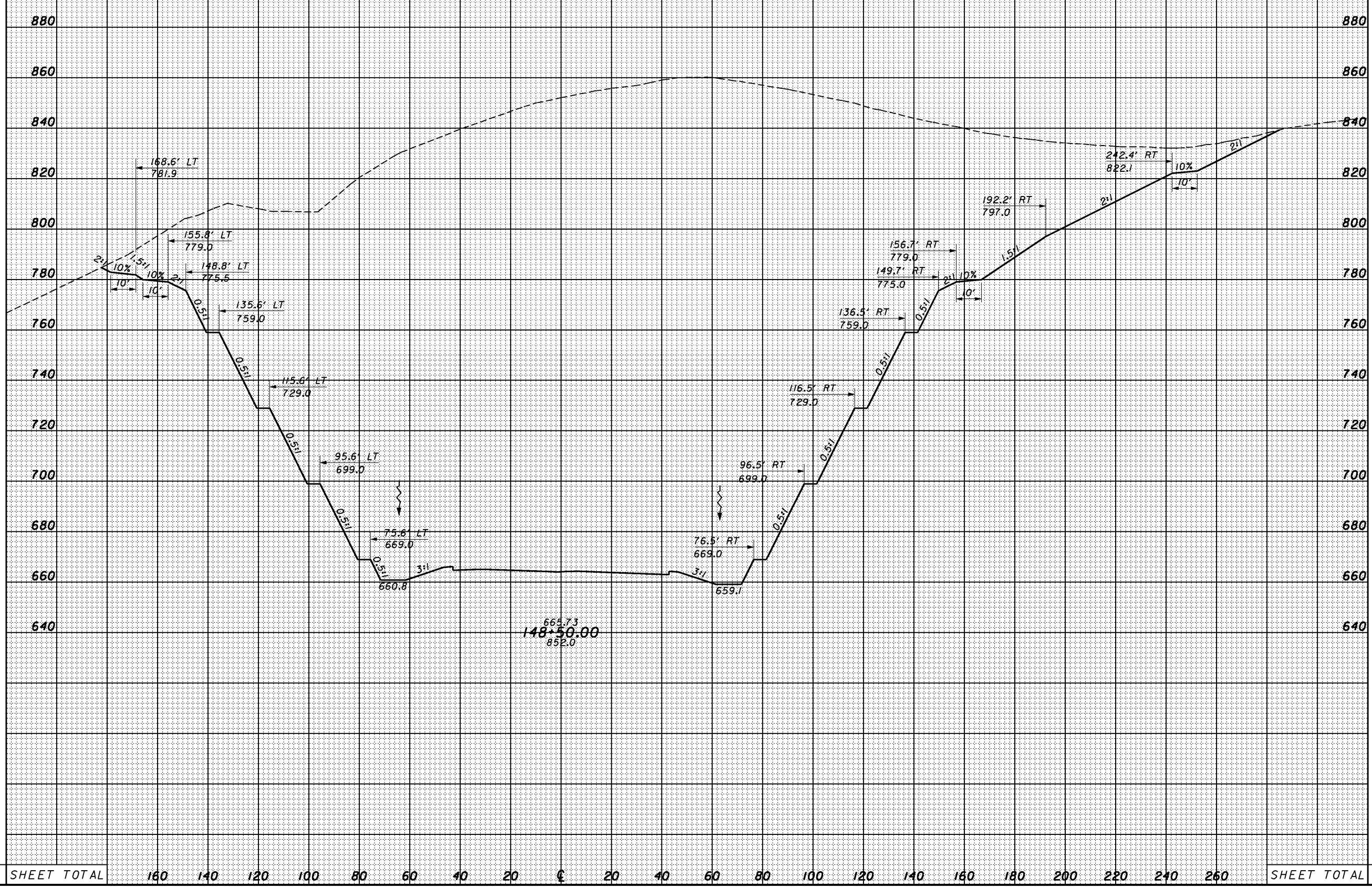


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8/5/09 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_e.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

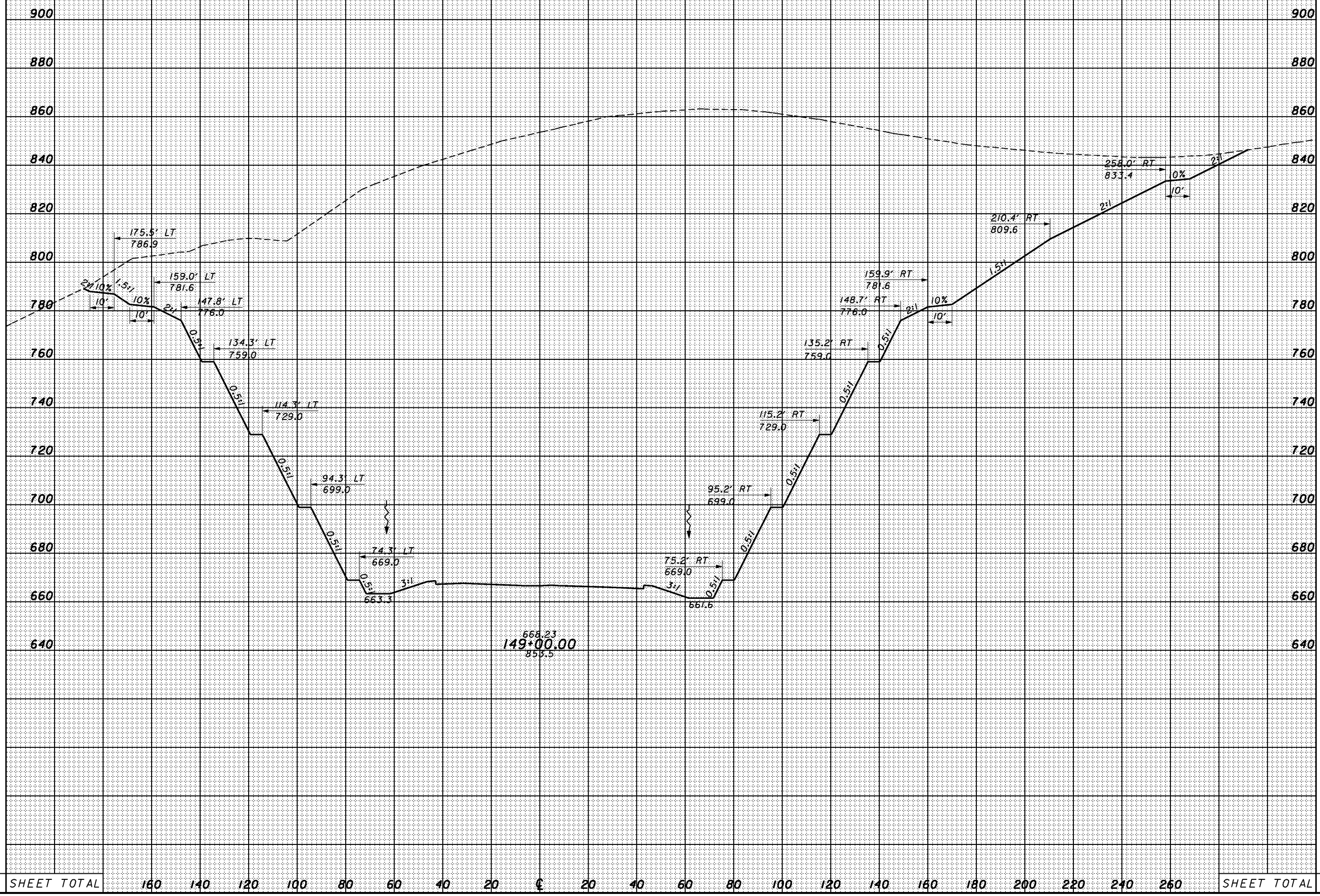
CROSS SECTIONS  
SR823 - STA. 148+50.00

SCI-823-0.00

SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8/5/10\_AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13668s-sr-823\_e.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

CROSS SECTIONS  
SR823 - STA. 149+00.00

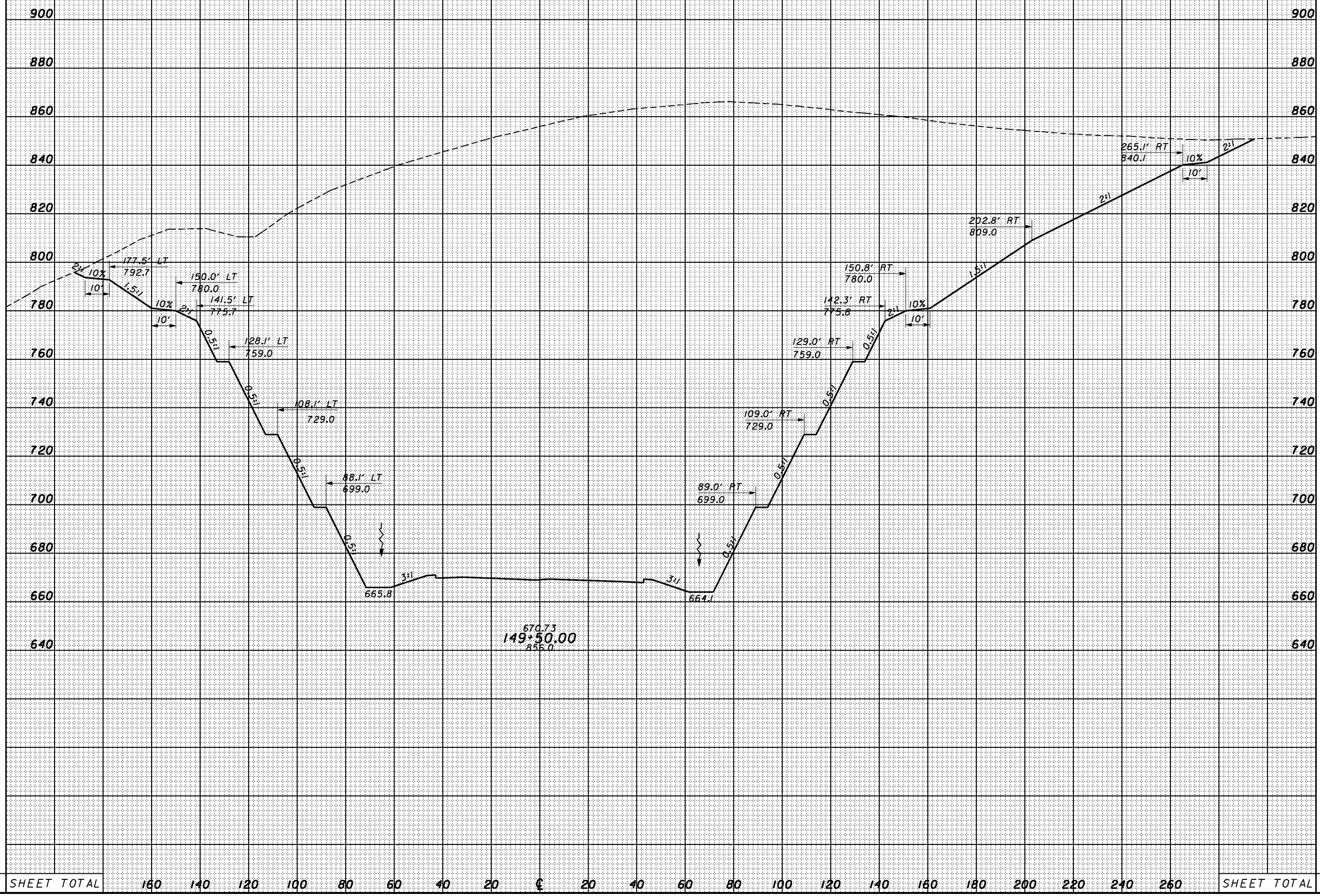
SCI-823-0.00



SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8/5/11 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_e.dgn



**CROSS SECTIONS**  
**SR823 - STA. 149+50.00**

**SCI-823-0.00**



8/5/11 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668xs-sr-823\_e.dgn

SEEDING	
END WIDTH	SO. YDS.

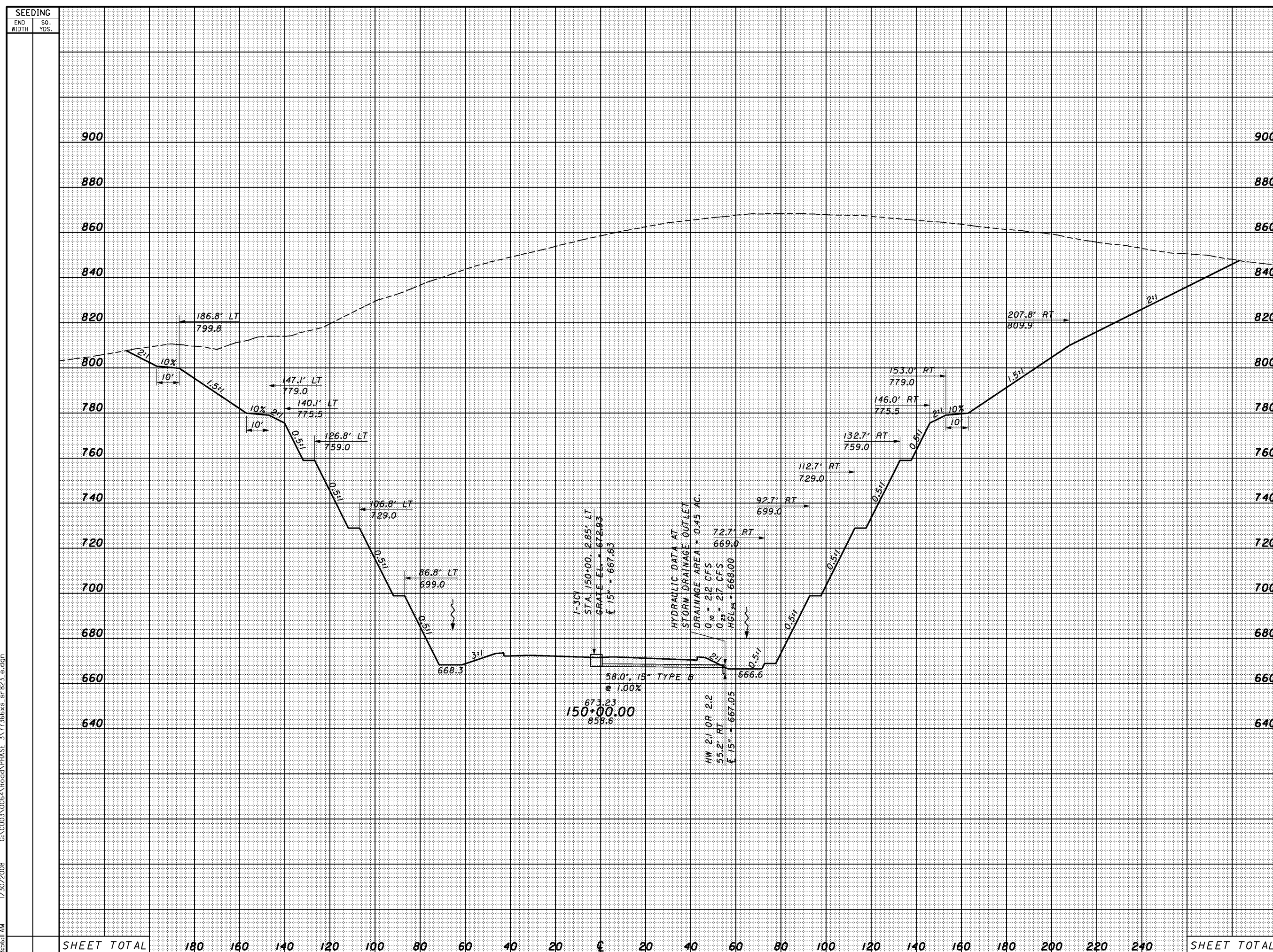
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 150+00.00

SCI-823-0.00

235



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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8/5/12 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_e.dgn

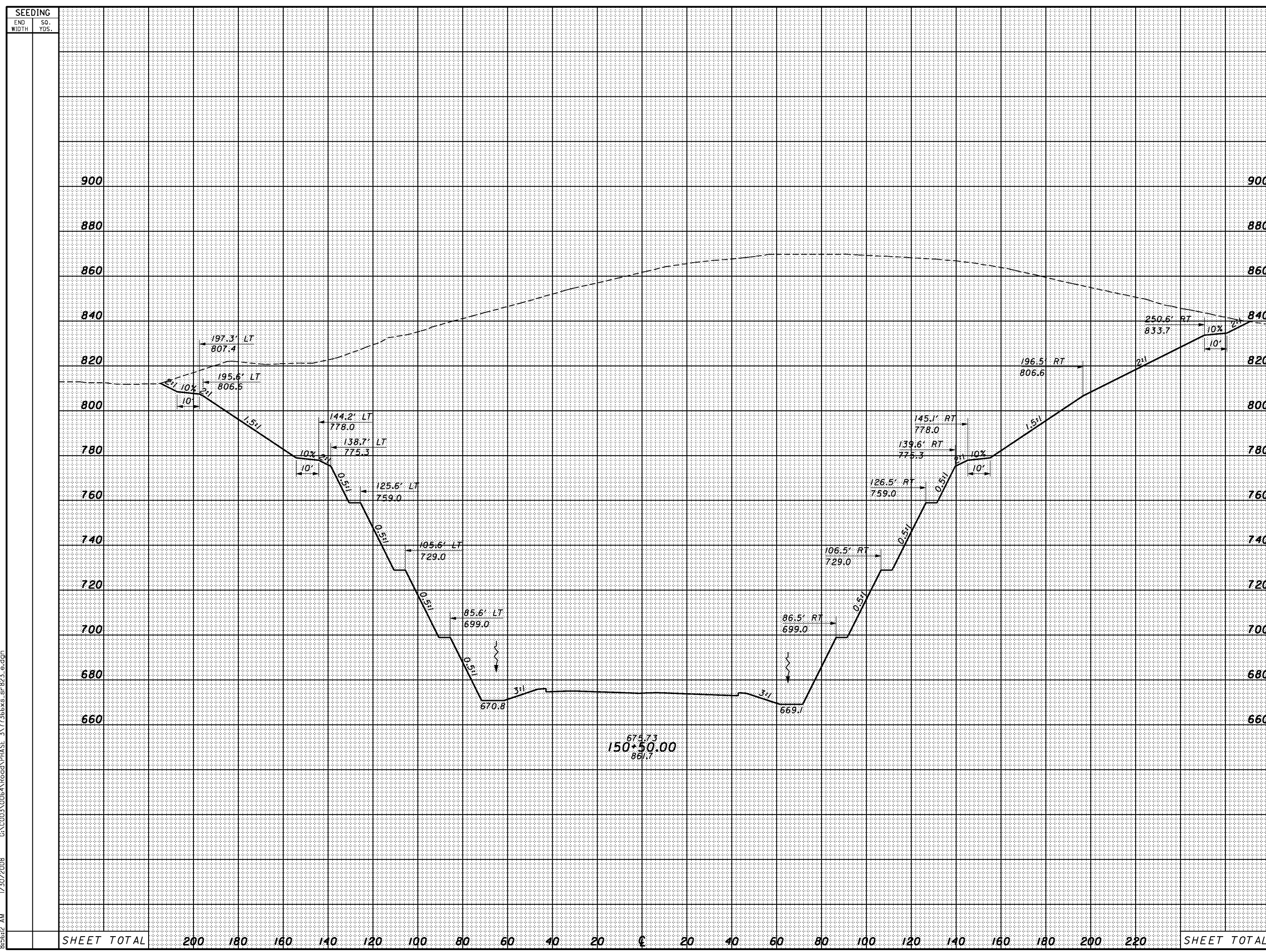
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
------------	---------

CROSS SECTIONS  
SR823 - STA. 150+50.00

SCI-823-0.00



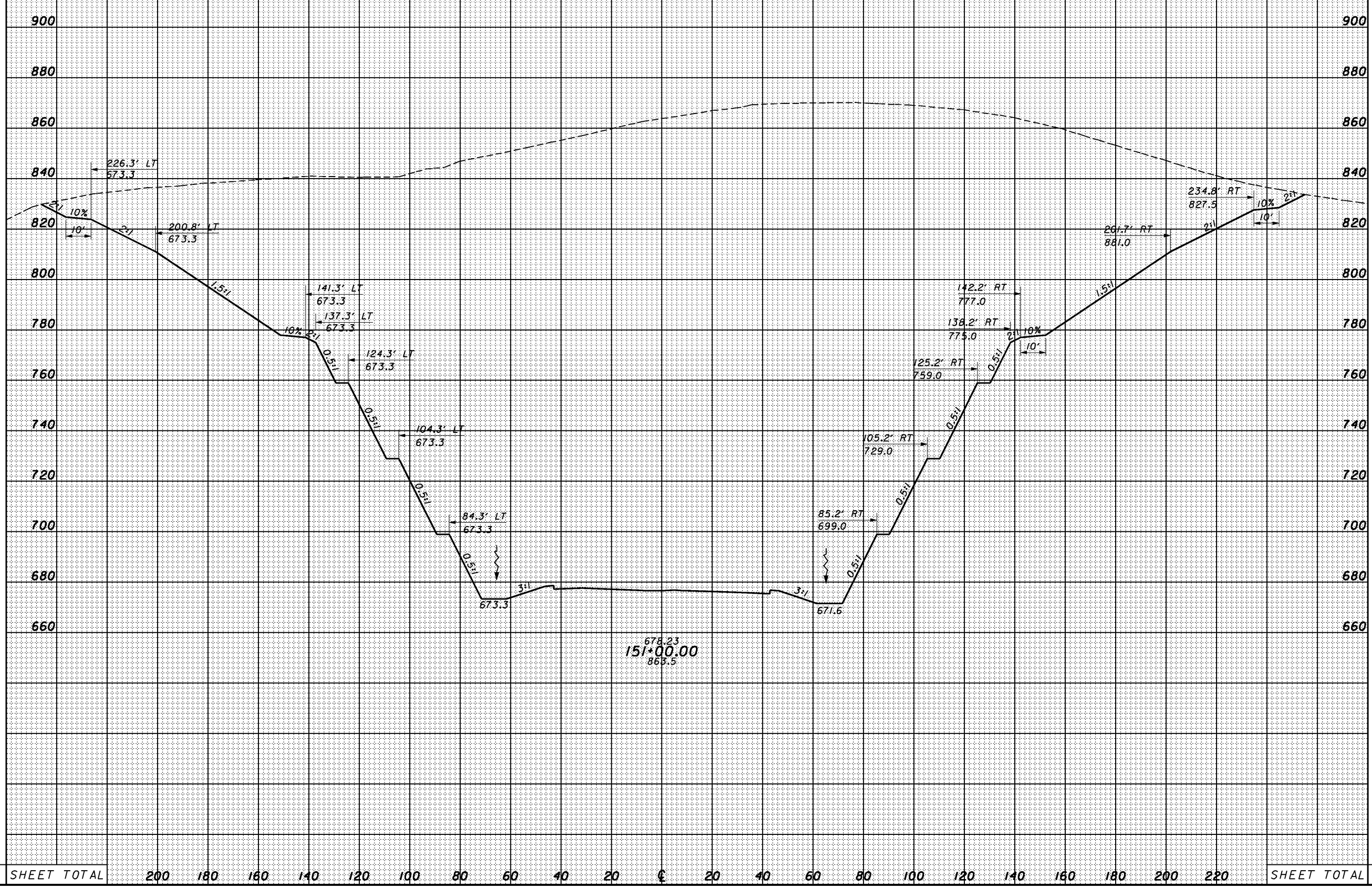
STATION	END AREA		VOLUME																				
	CUT	FILL	CUT	FILL																			
900																							
880																							
860																							
840																							
820																							
800																							
780																							
760																							
740																							
720																							
700																							
680																							
660																							
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 SO.  
WIDTH YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

8/5/03 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823\_e.dgn



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

CROSS SECTIONS  
SR823 - STA. 151+00.00

SCI-823-0.00

237



8/5/14 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_e.dgn

SEEDING	
END WIDTH	SO. YDS.

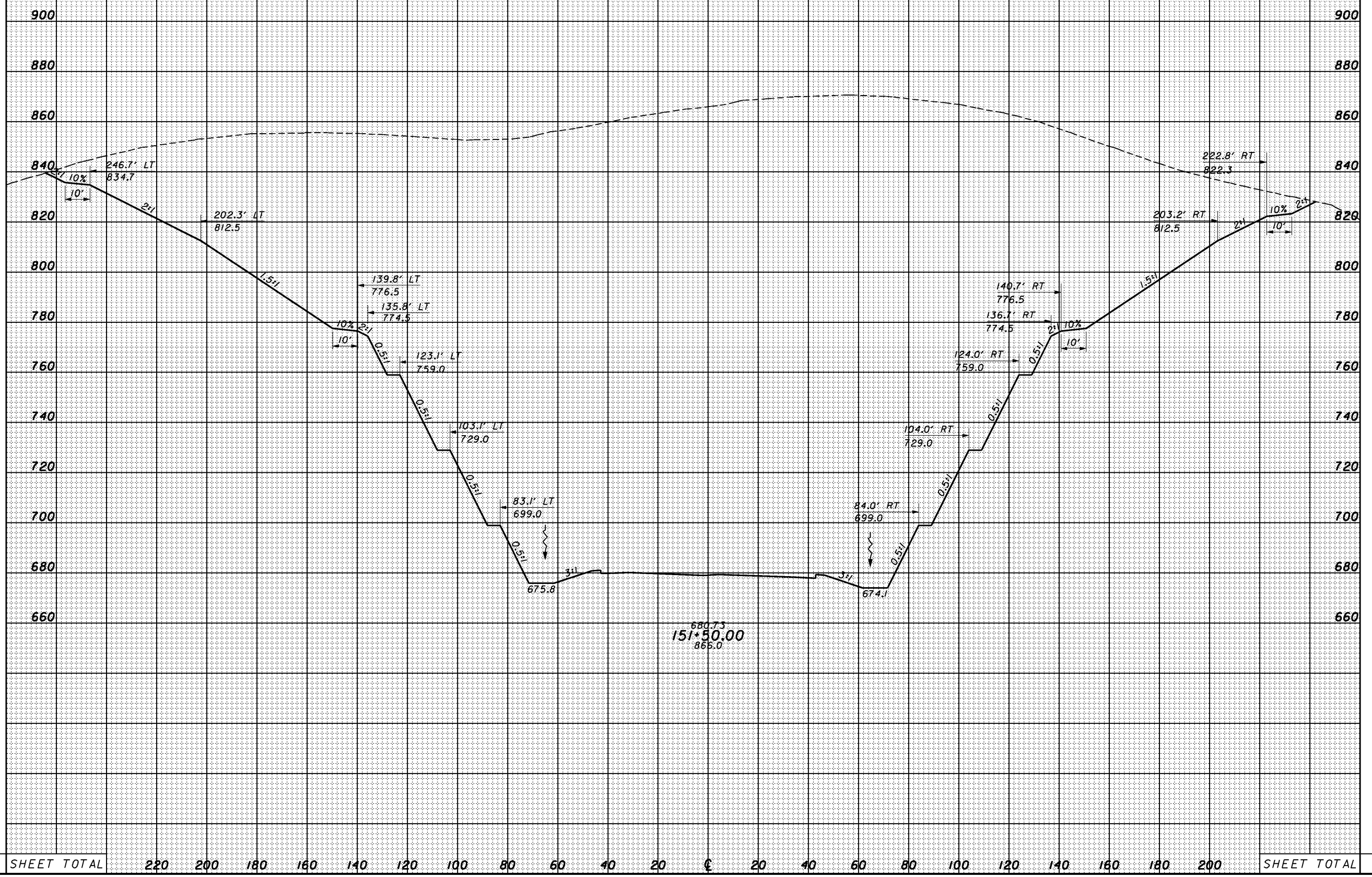
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 151+50.00

SCI-823-0.00

238



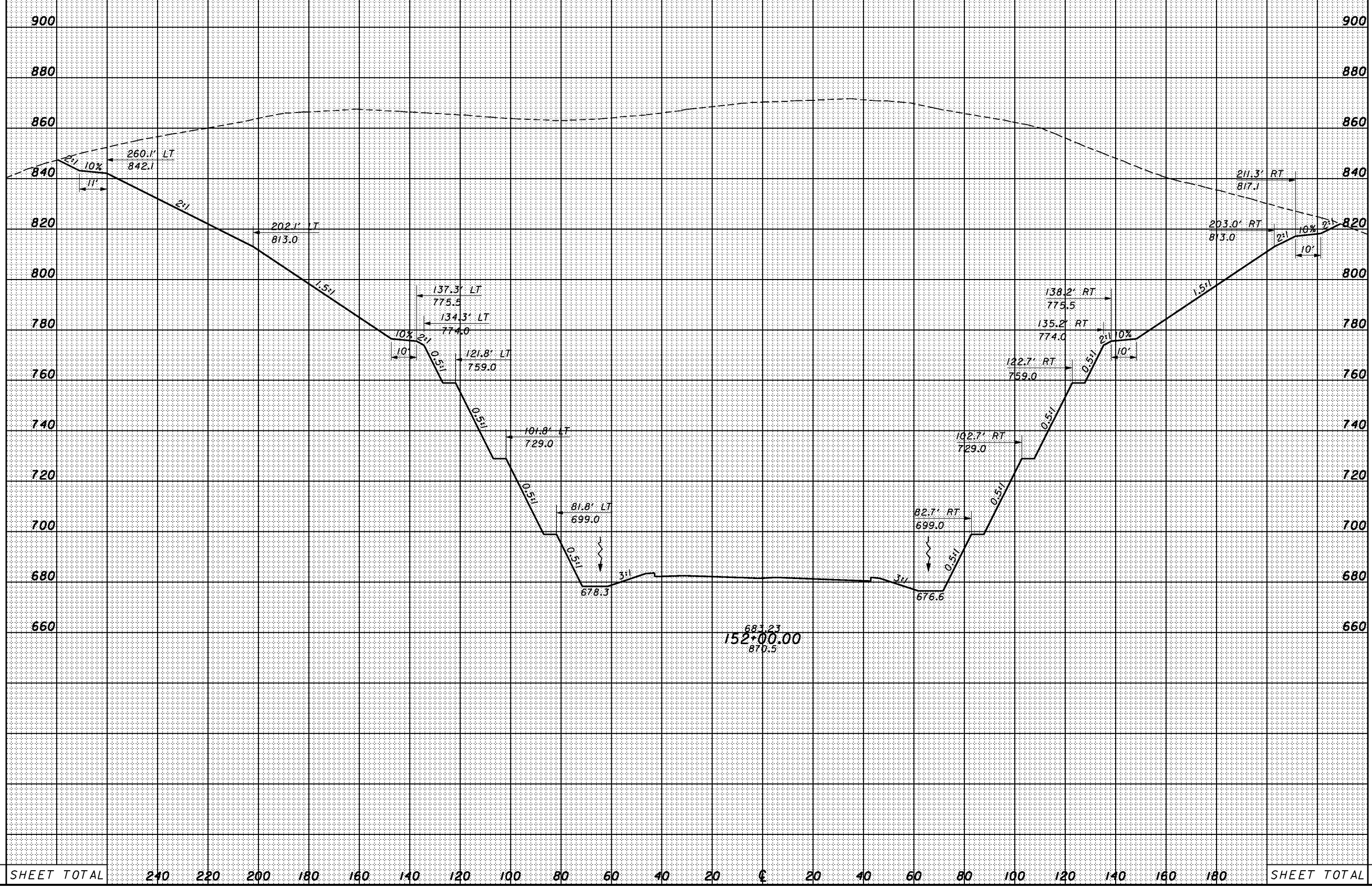
SHEET TOTAL	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	SHEET TOTAL
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SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8/5/05 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13668s-sr-823\_e.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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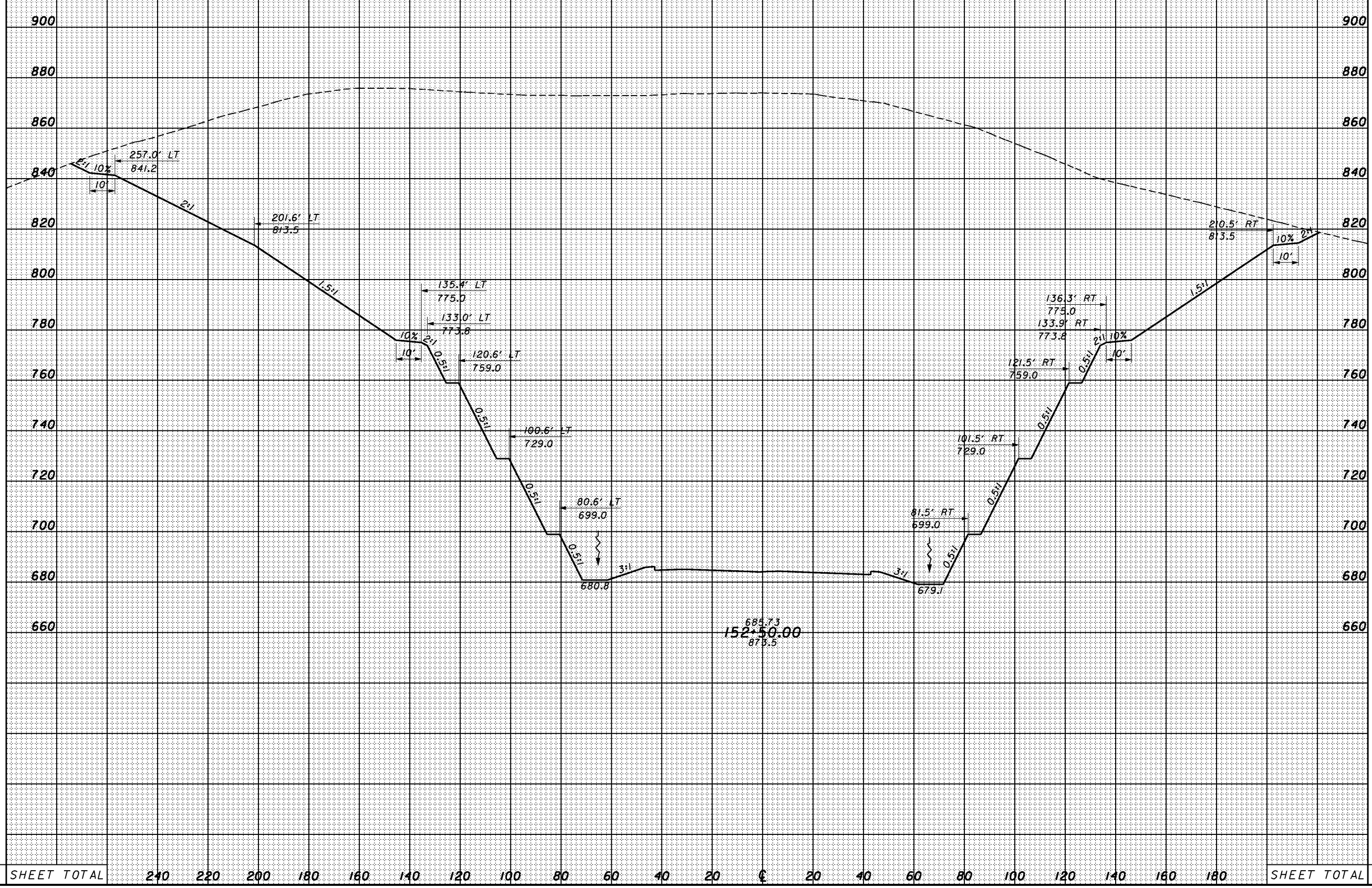
CROSS SECTIONS  
SR823 - STA. 152+00.00

SCI-823-0.00

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8:56:16 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823\_e.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

CROSS SECTIONS  
SR823 - STA. 152+50.00

SCI-823-0.00

8/5/07 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_e.dgn

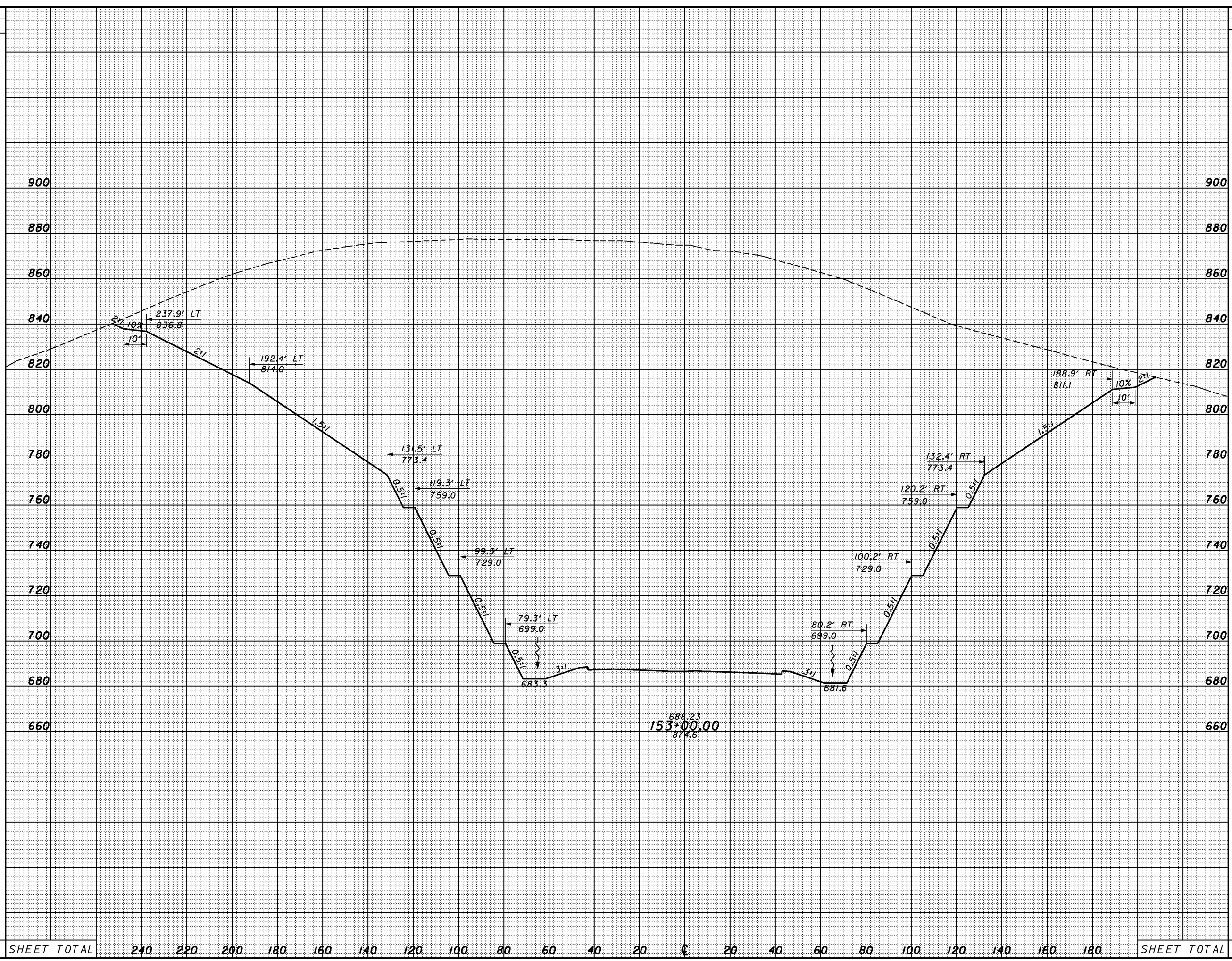
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 153+00.00

SCI-823-0.00



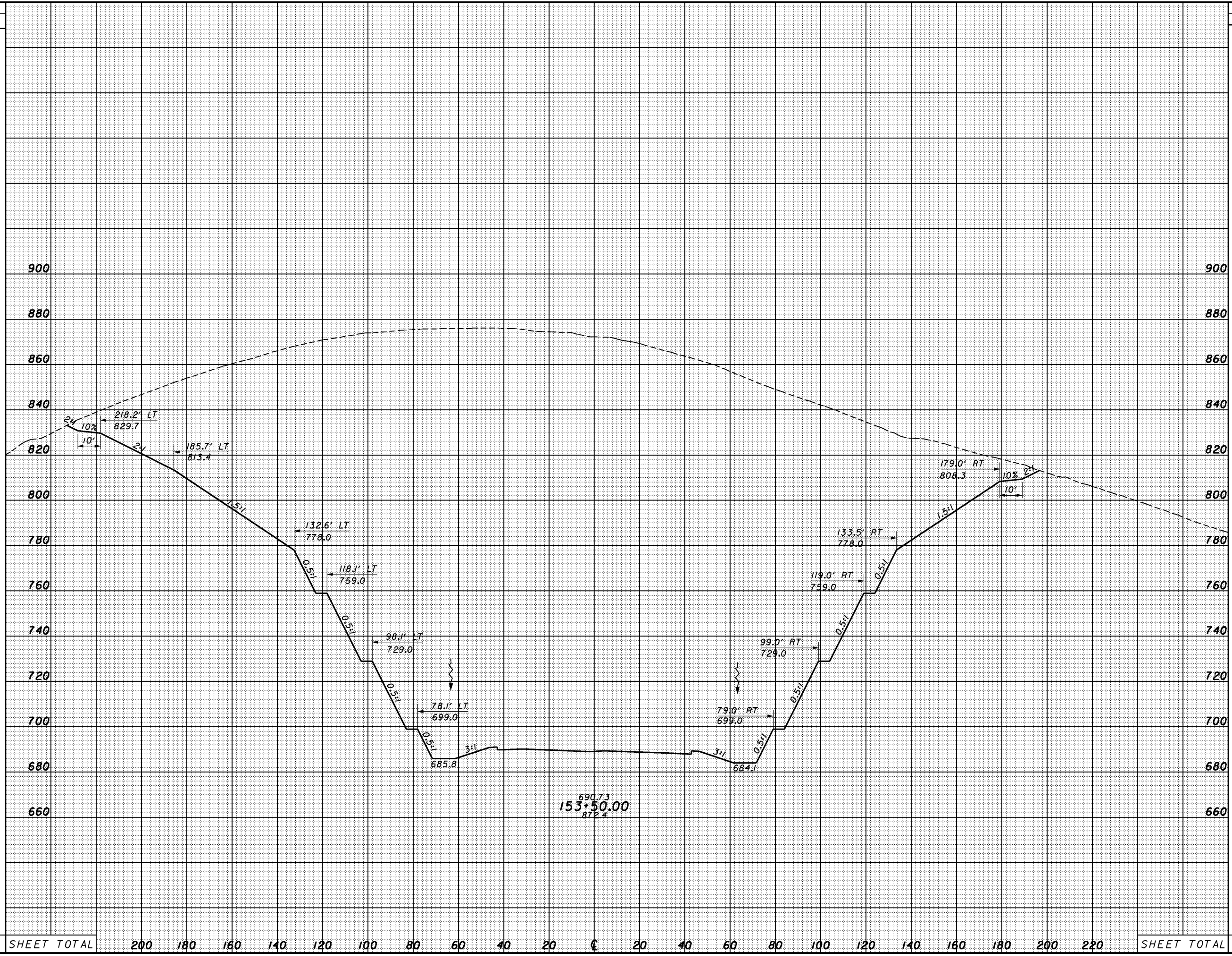
SHEET TOTAL	240	220	200	180	160	140	120	100	80	60	40	20	CL	20	40	60	80	100	120	140	160	180	SHEET TOTAL
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SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8:56:18 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13666xs-sr-823\_e.dgn



CROSS SECTIONS  
SR823 - STA. 153+50.00

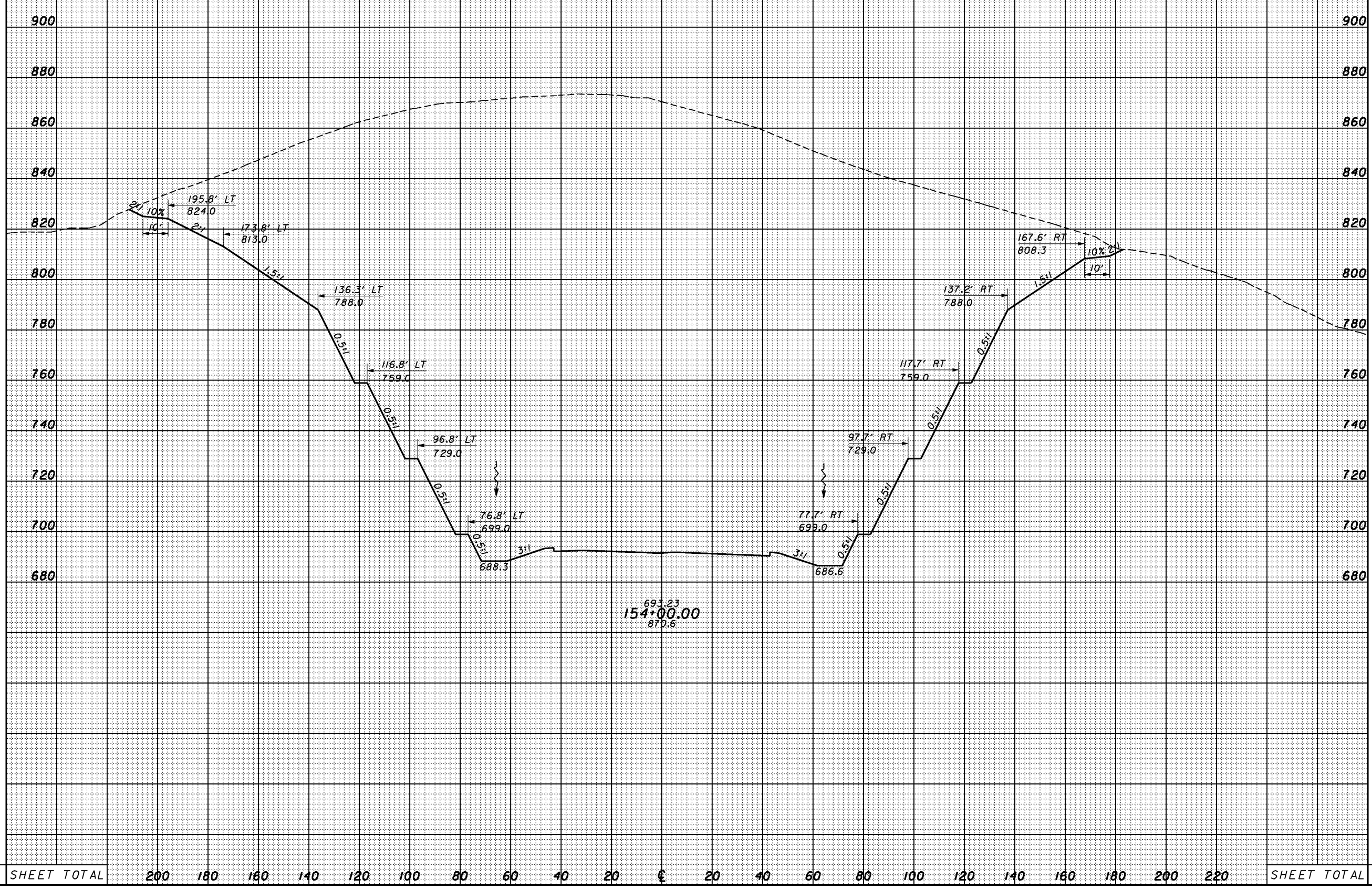
SCI-823-0.00



SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8/5/09 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_e.dgn



CROSS SECTIONS  
SR823 - STA. 154+00.00

SCI-823-0.00

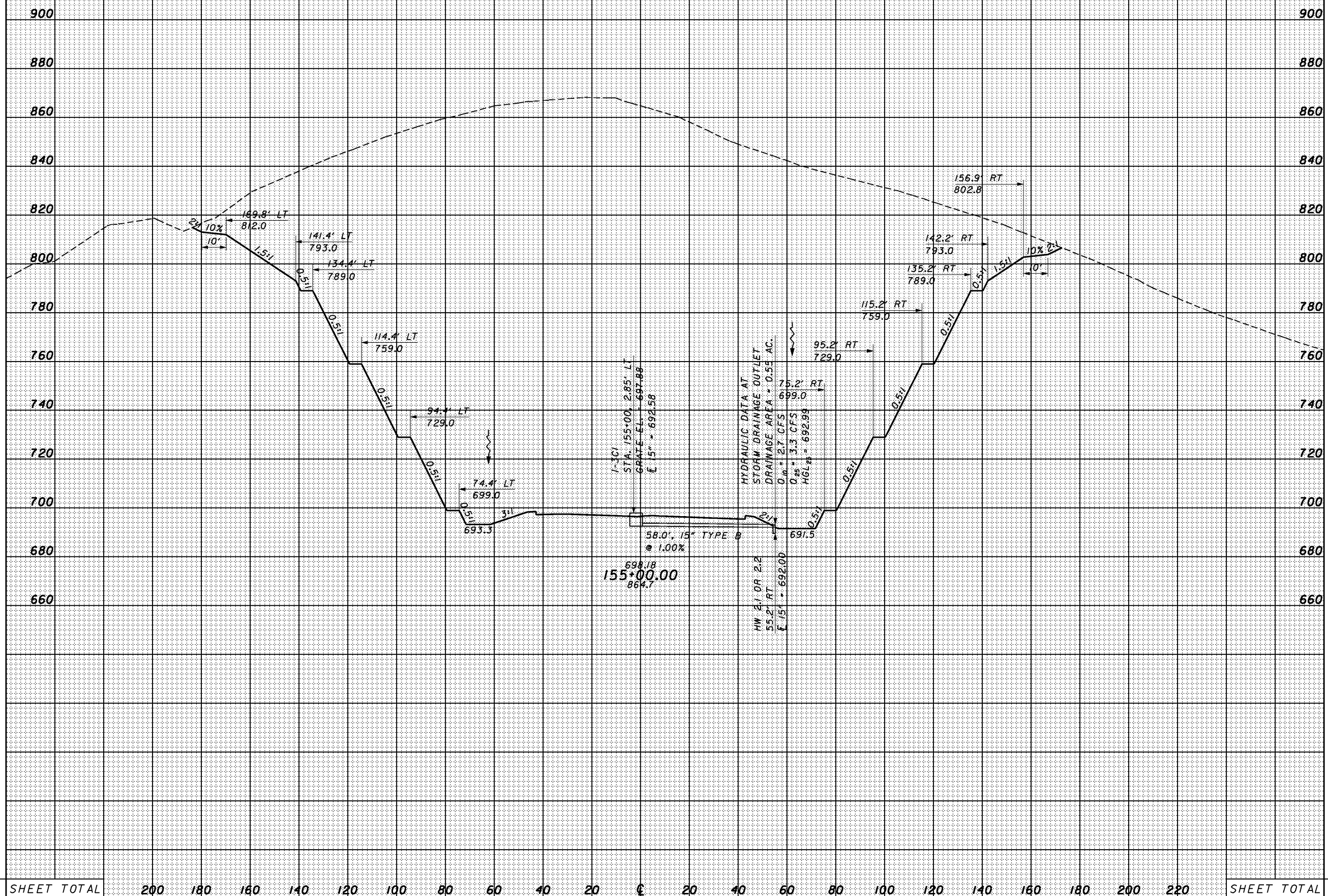


8/5/21AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668xs-sr-823\_e.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED



CROSS SECTIONS  
SR823 - STA. 155+00.00

SCI-823-0.00



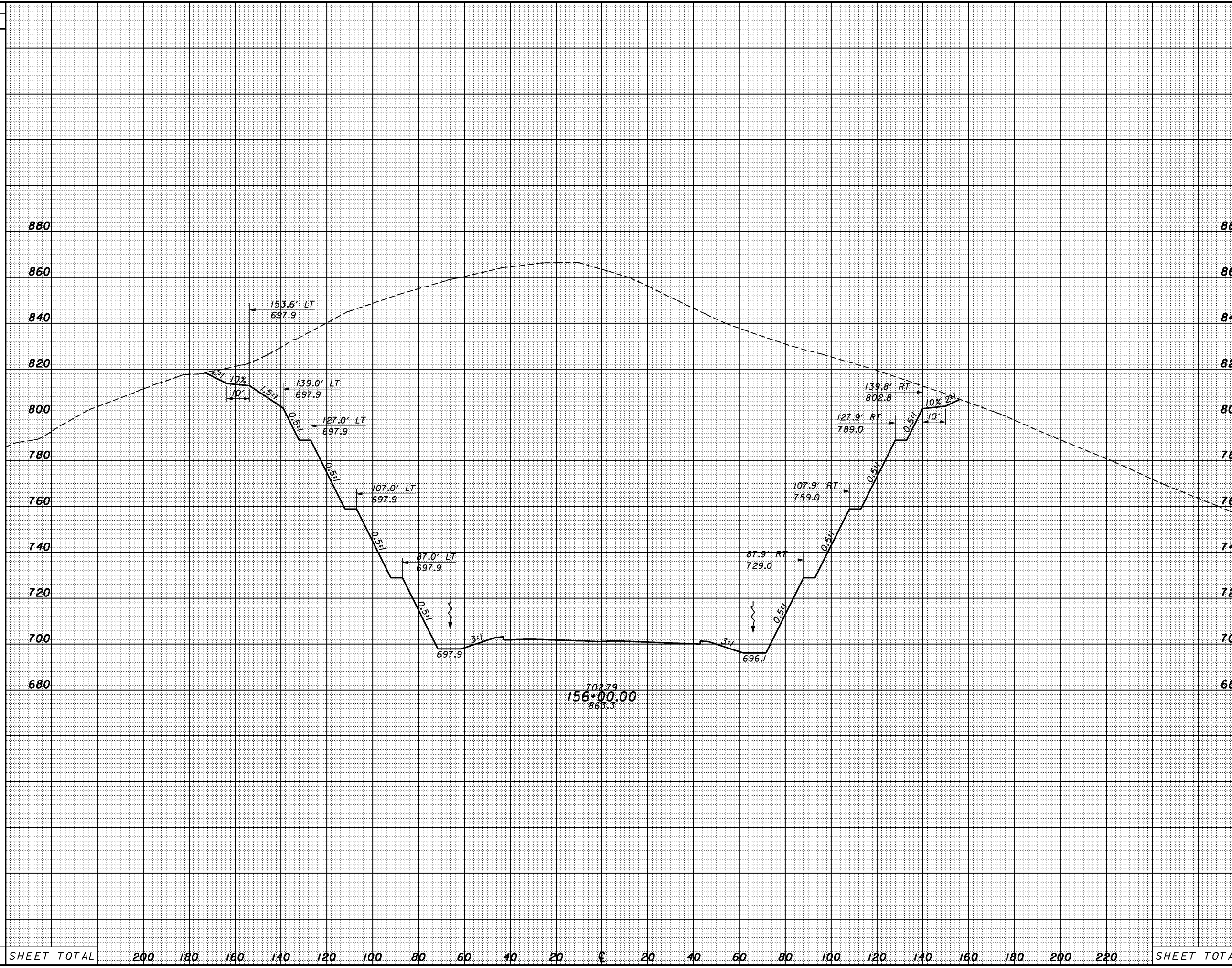




SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8/5/24 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_e.dgn



CROSS SECTIONS  
SR823 - STA. 156+00.00

SCI-823-0.00

8:56:26 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_e.dgn

SEEDING	
END WIDTH	SO. YDS.

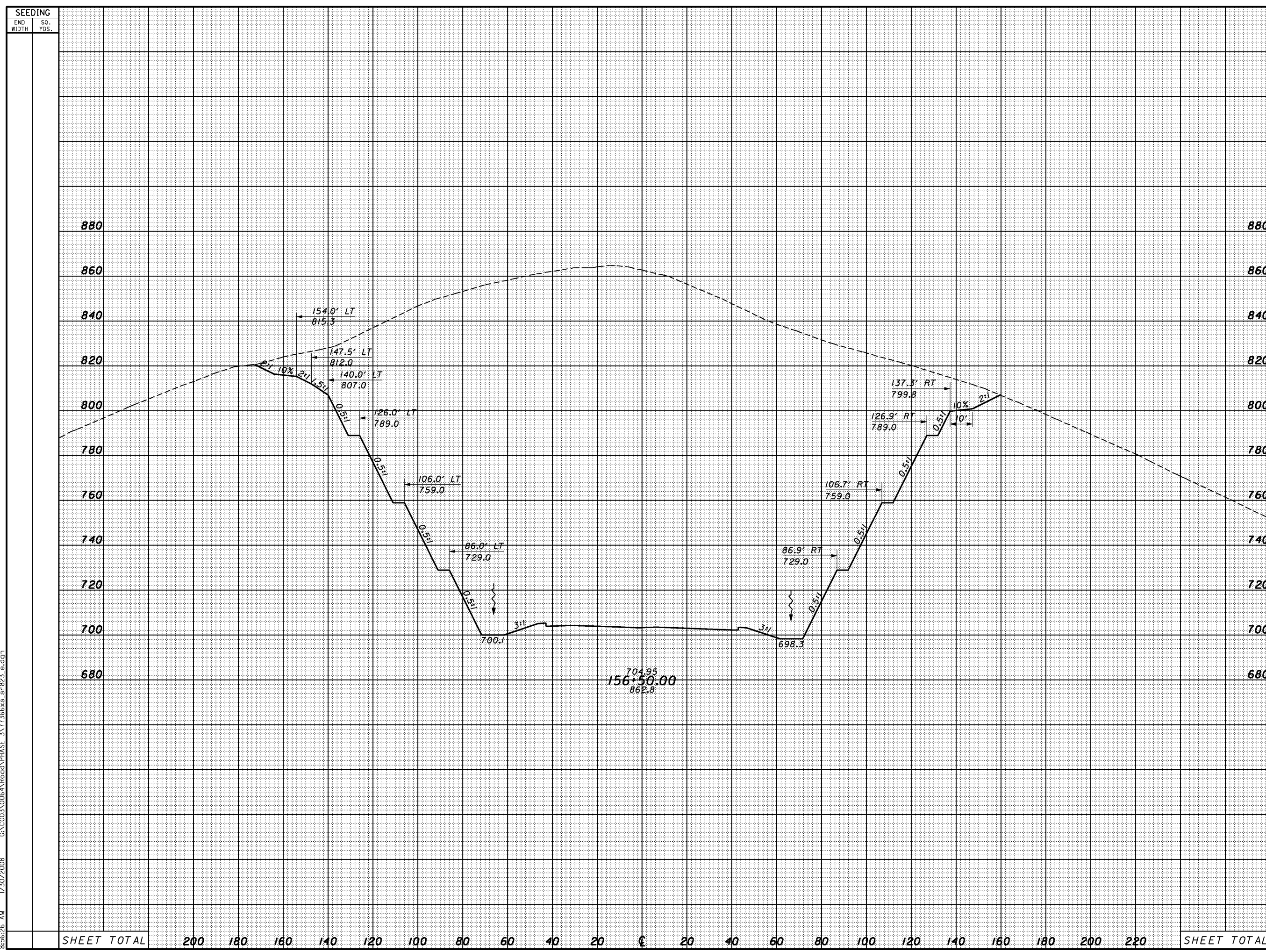
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 156+50.00

SCI-823-0.00

248



END AREA		VOLUME	
CUT	FILL	CUT	FILL

8/5/27 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823\_e.dgn

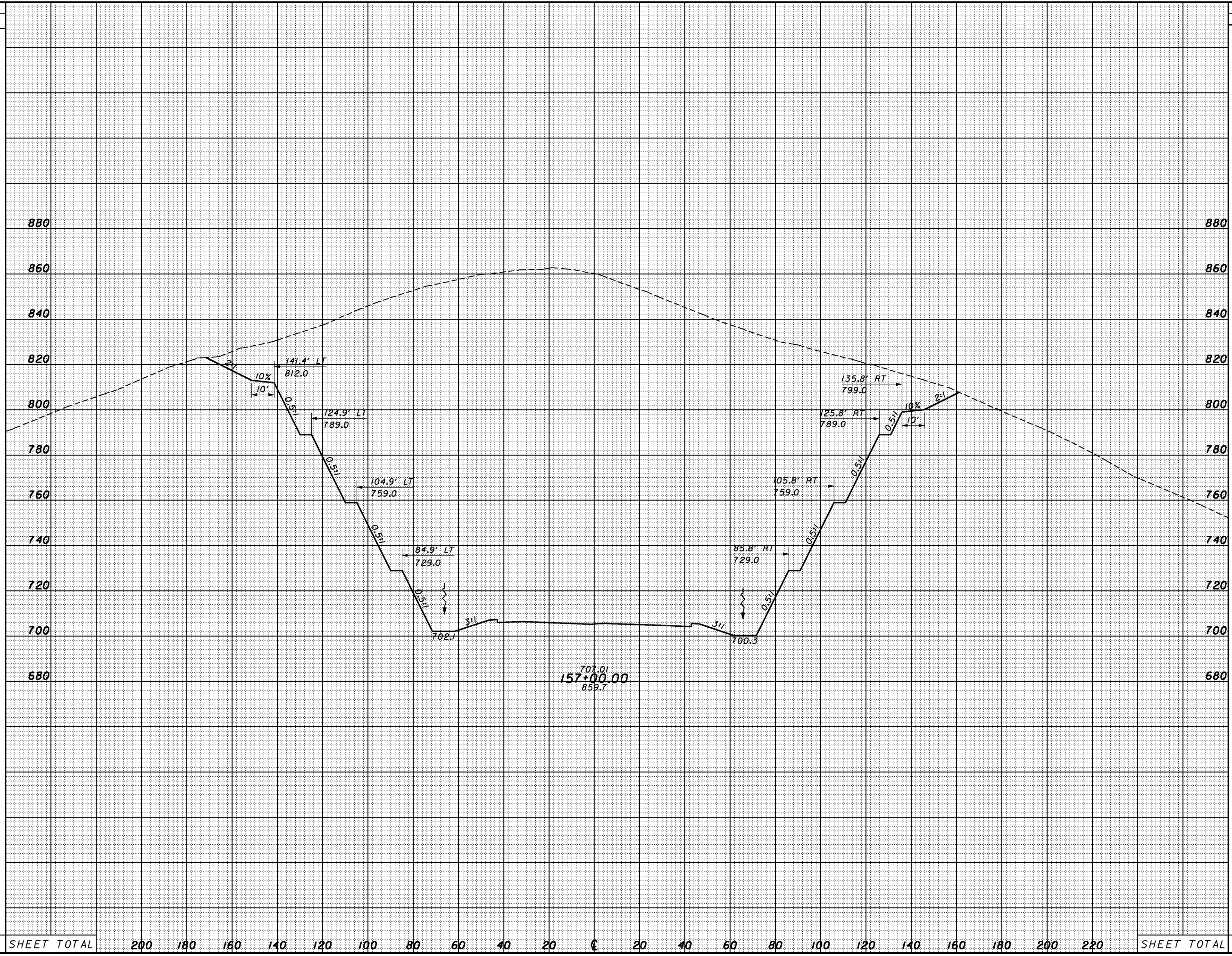
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 157+00.00

SCI-823-0.00



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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8:56:28 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_e.dgn

SEEDING	
END WIDTH	SO. YDS.

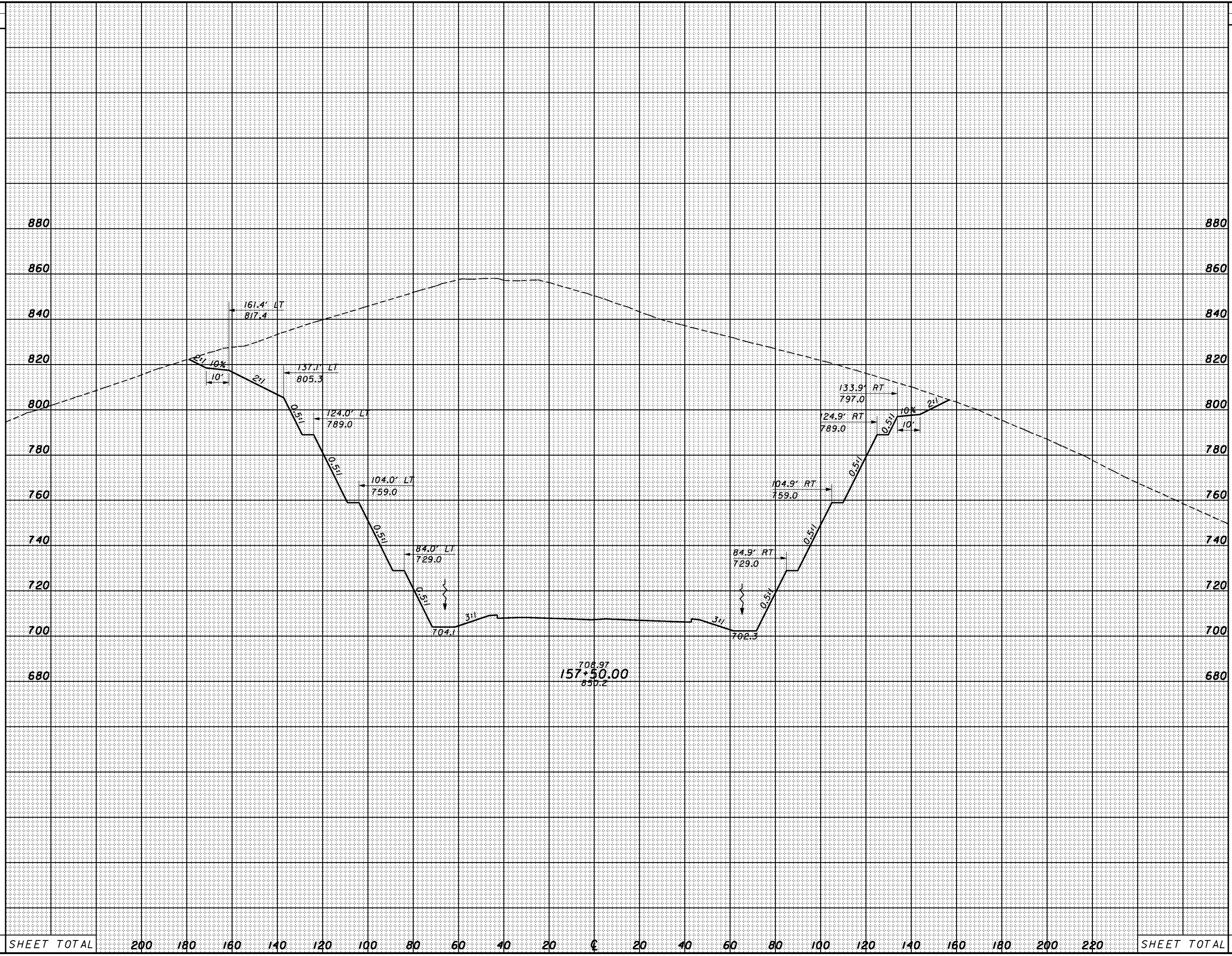
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 157+50.00

SCI-823-0.00

250



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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8:56:29 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_e.dgn

SEEDING	
END WIDTH	SO. YDS.

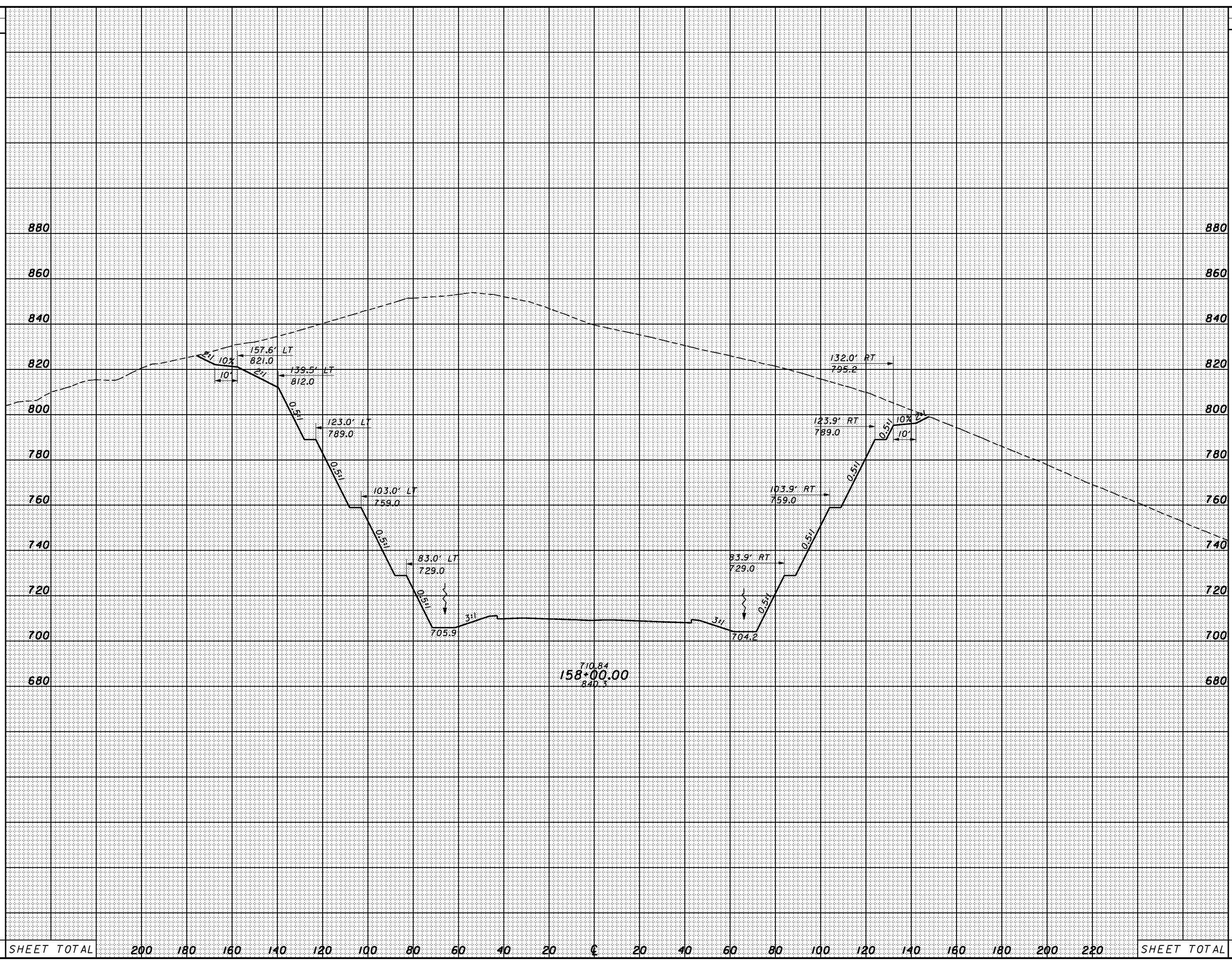
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 158+00.00

SCI-823-0.00

251

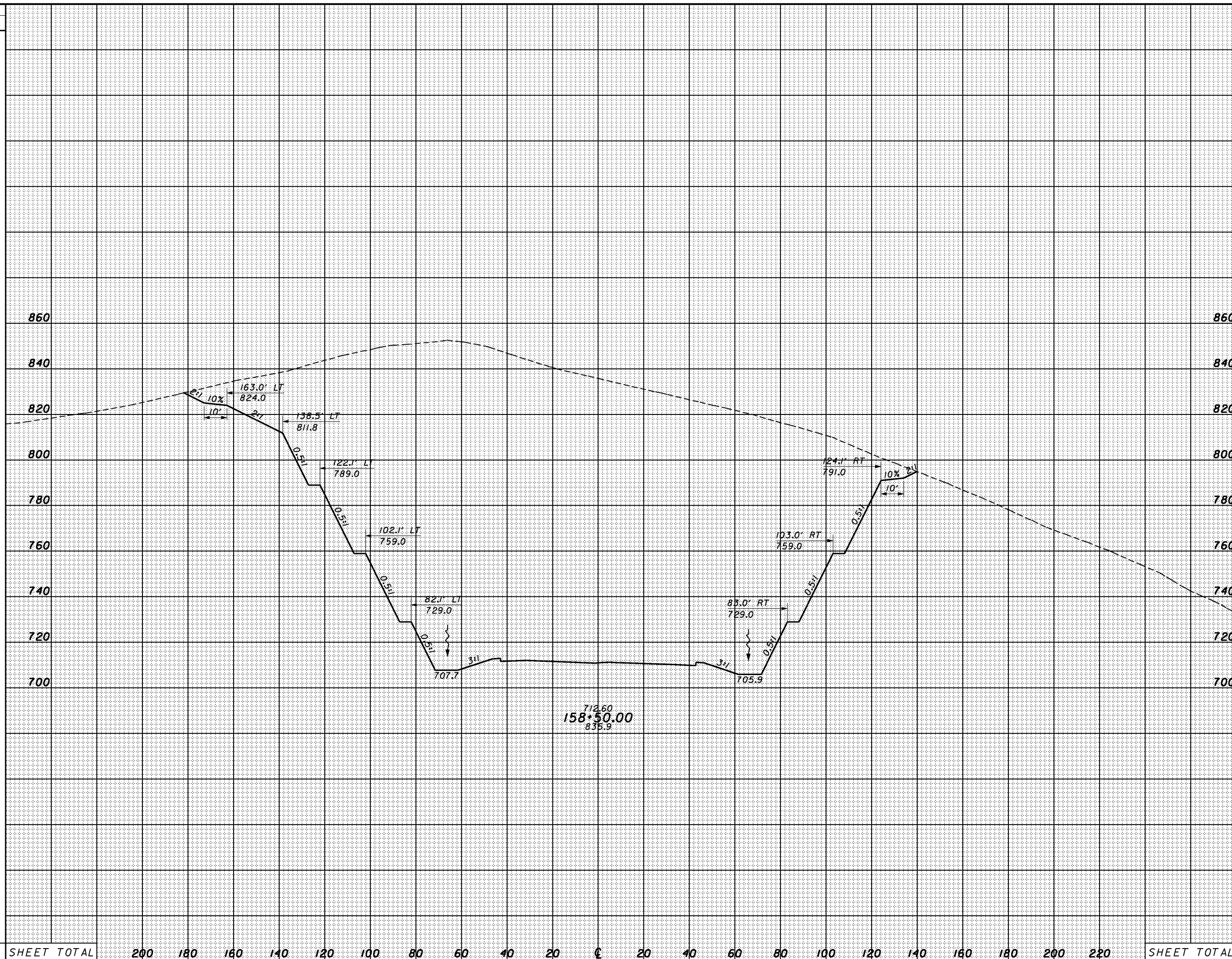


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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8:56:30 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_e.dgn

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

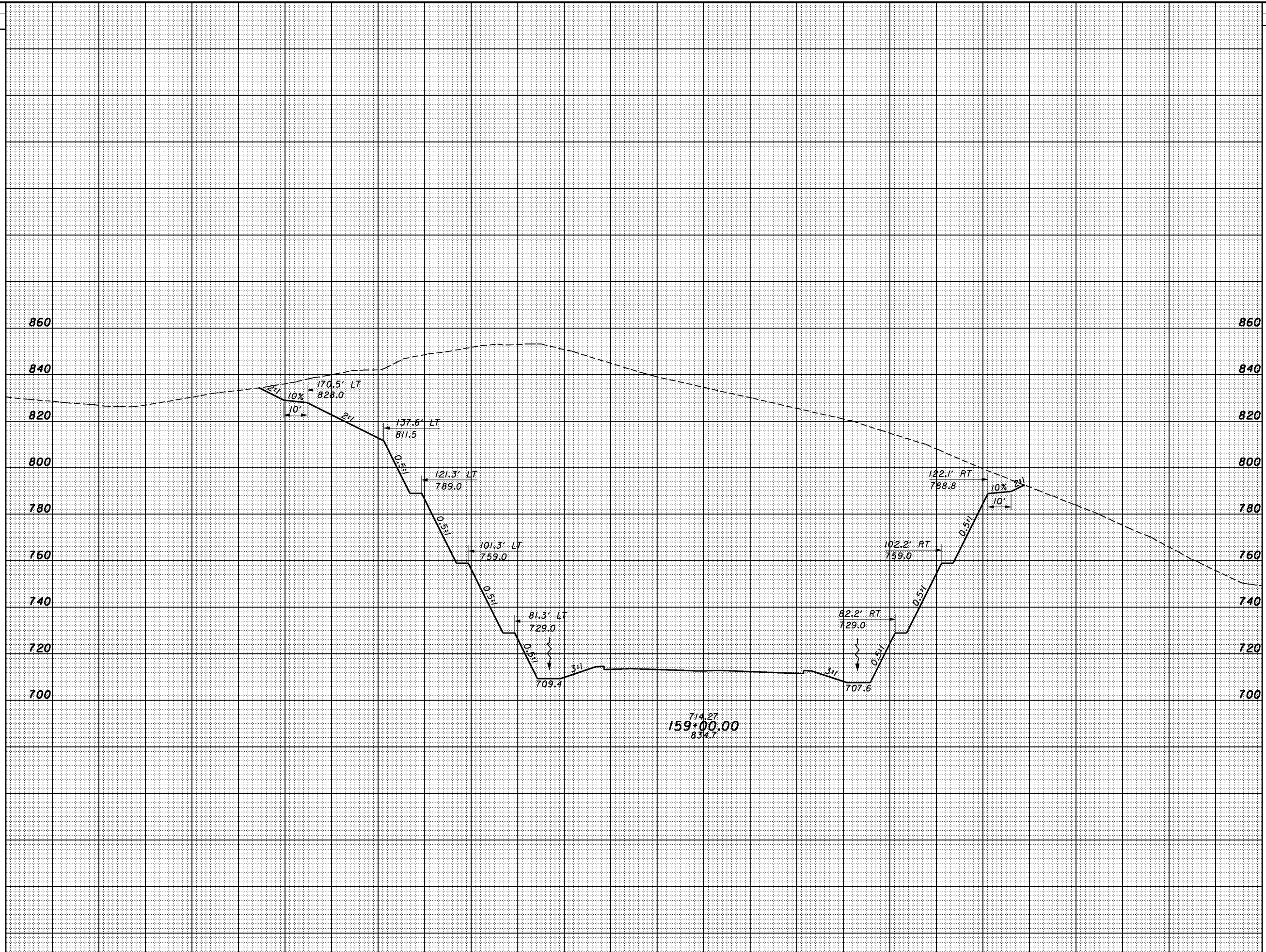
CROSS SECTIONS  
SR823 - STA. 158+50.00

SCI-823-0.00

8:56:31 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_e.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



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. 159+00.00

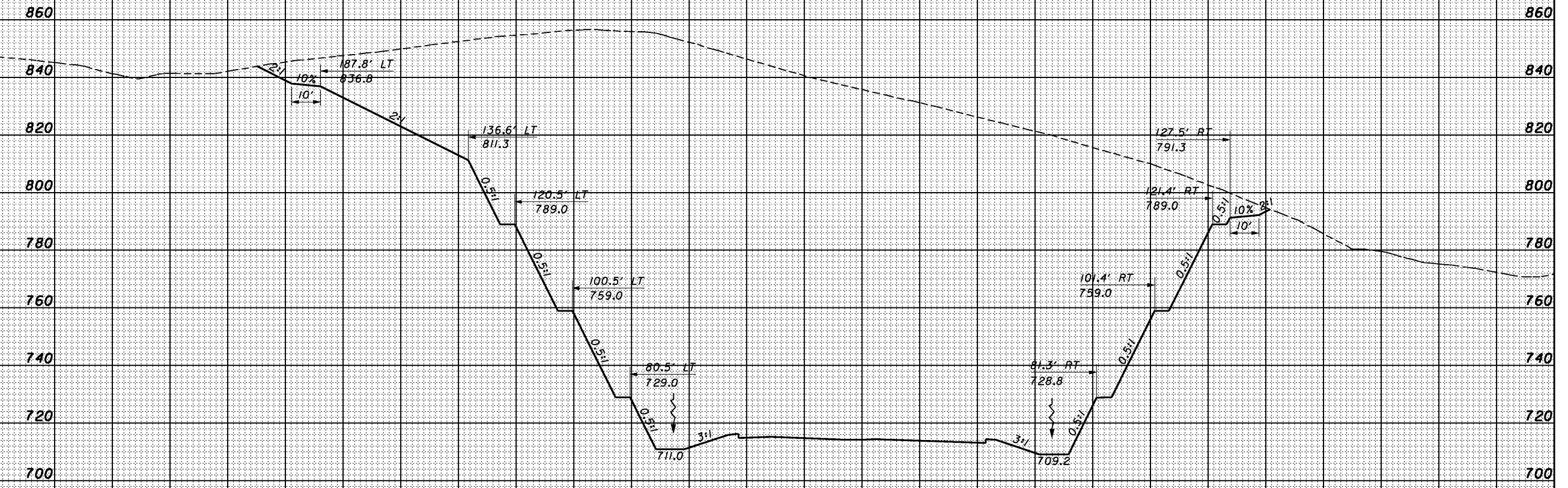
SCI-823-0.00



8:56:32 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_e.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



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. 159+50.00

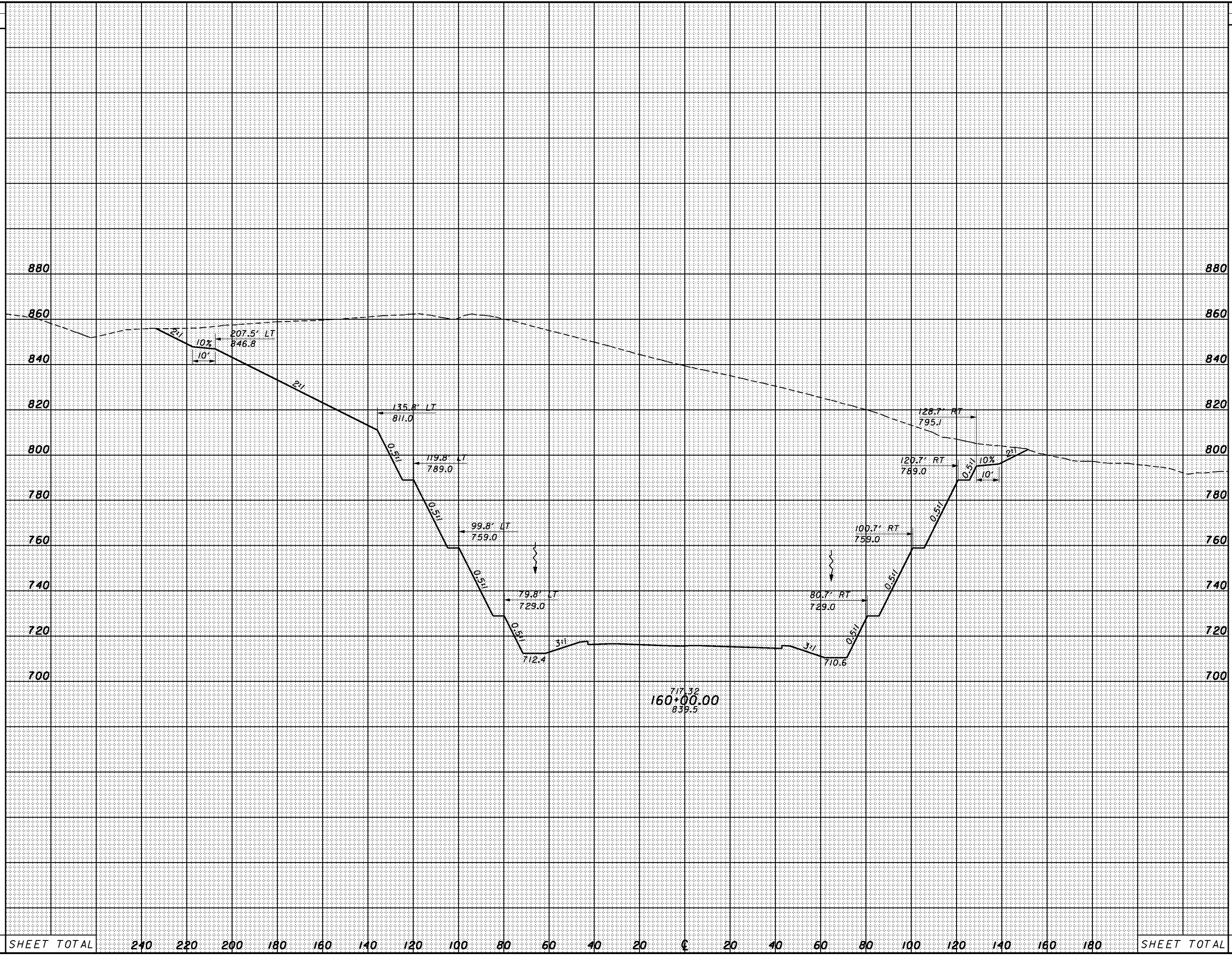
SCI-823-0.00



8:56:33 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_e.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



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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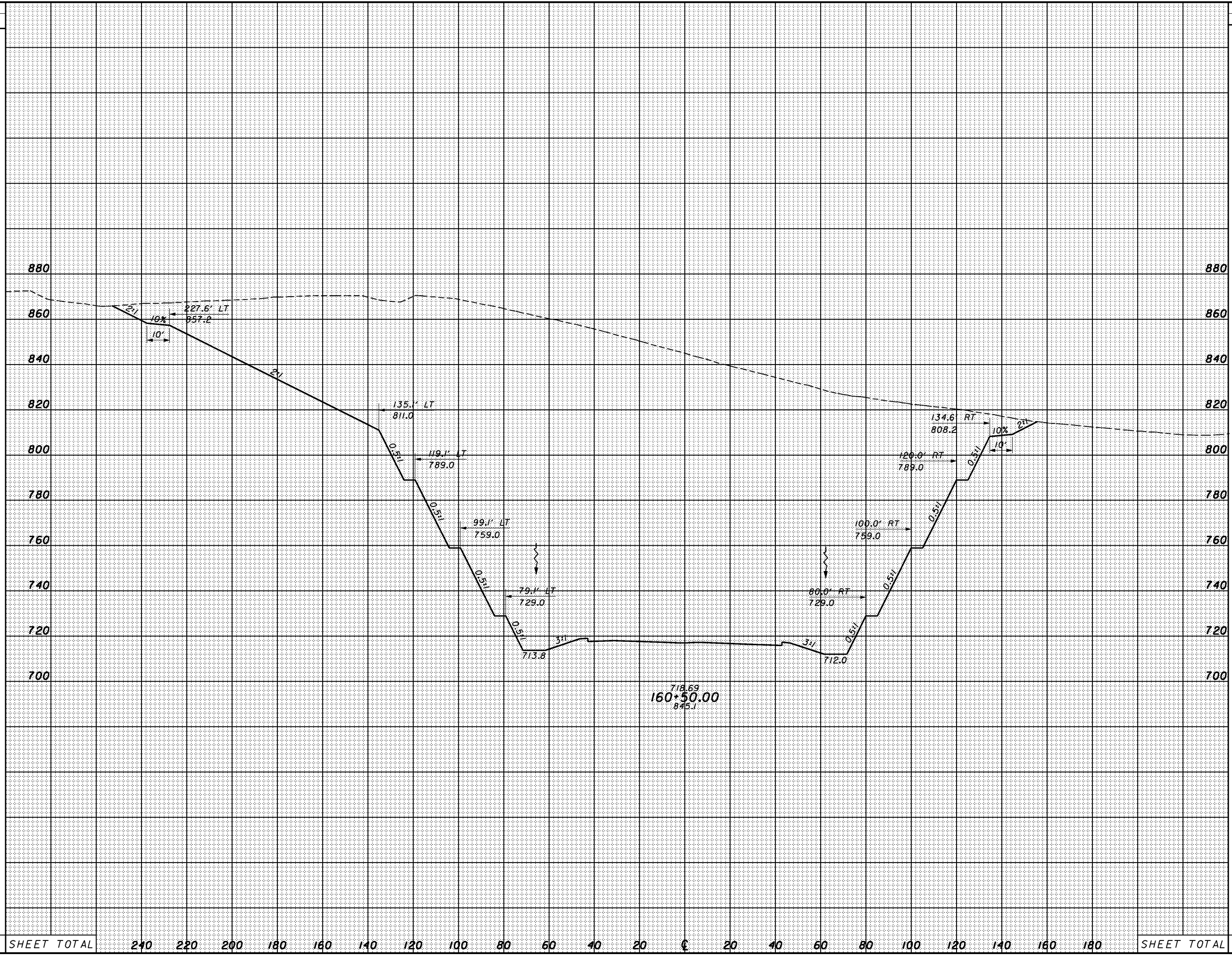
CROSS SECTIONS  
SR823 - STA. 160+00.00

SCI-823-0.00

8:56:34 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13668s-sr-823\_e.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



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. 160+50.00

SCI-823-0.00

8:56:35 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_e.dgn

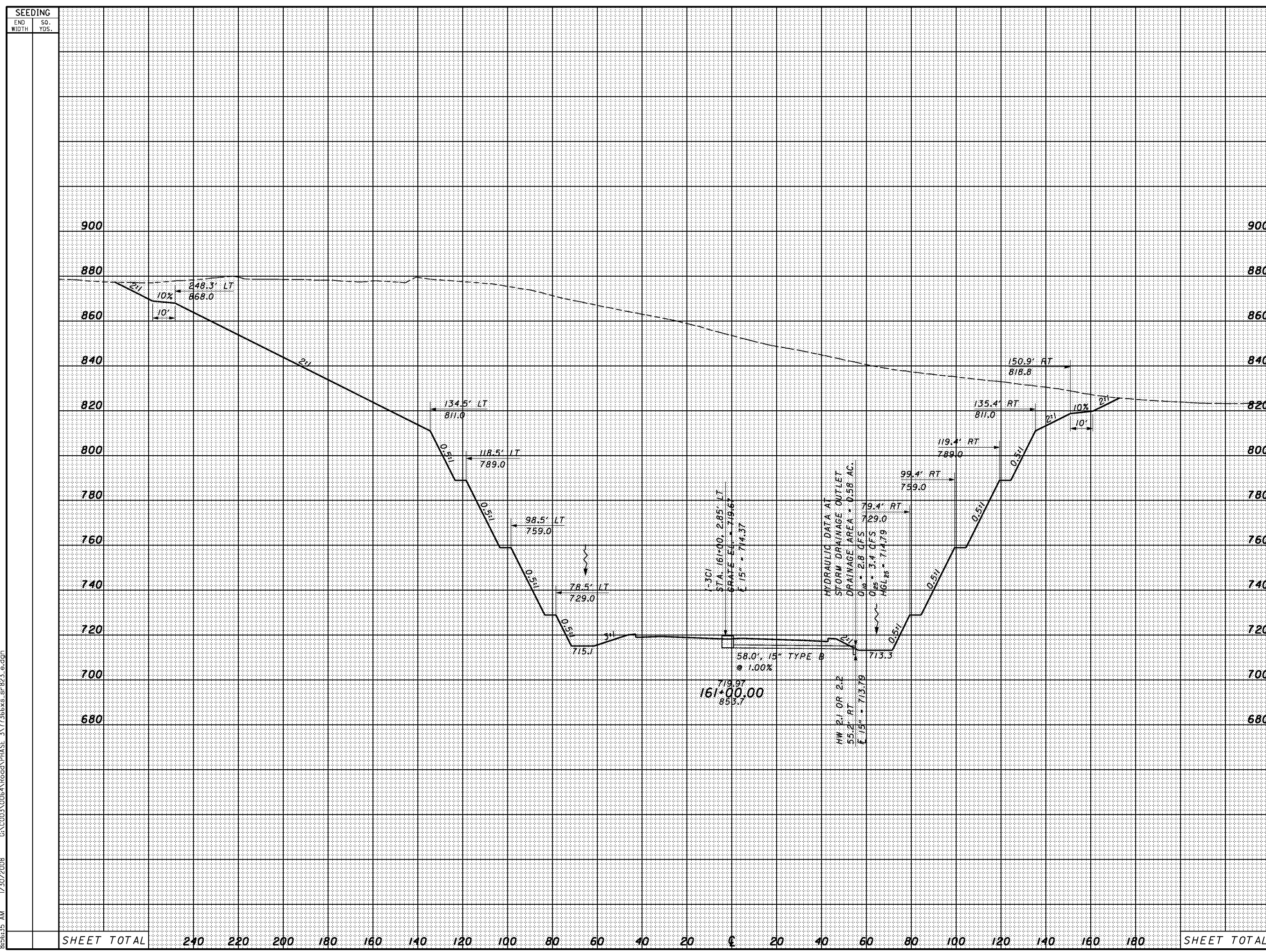
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 161+00.00

SCI-823-0.00



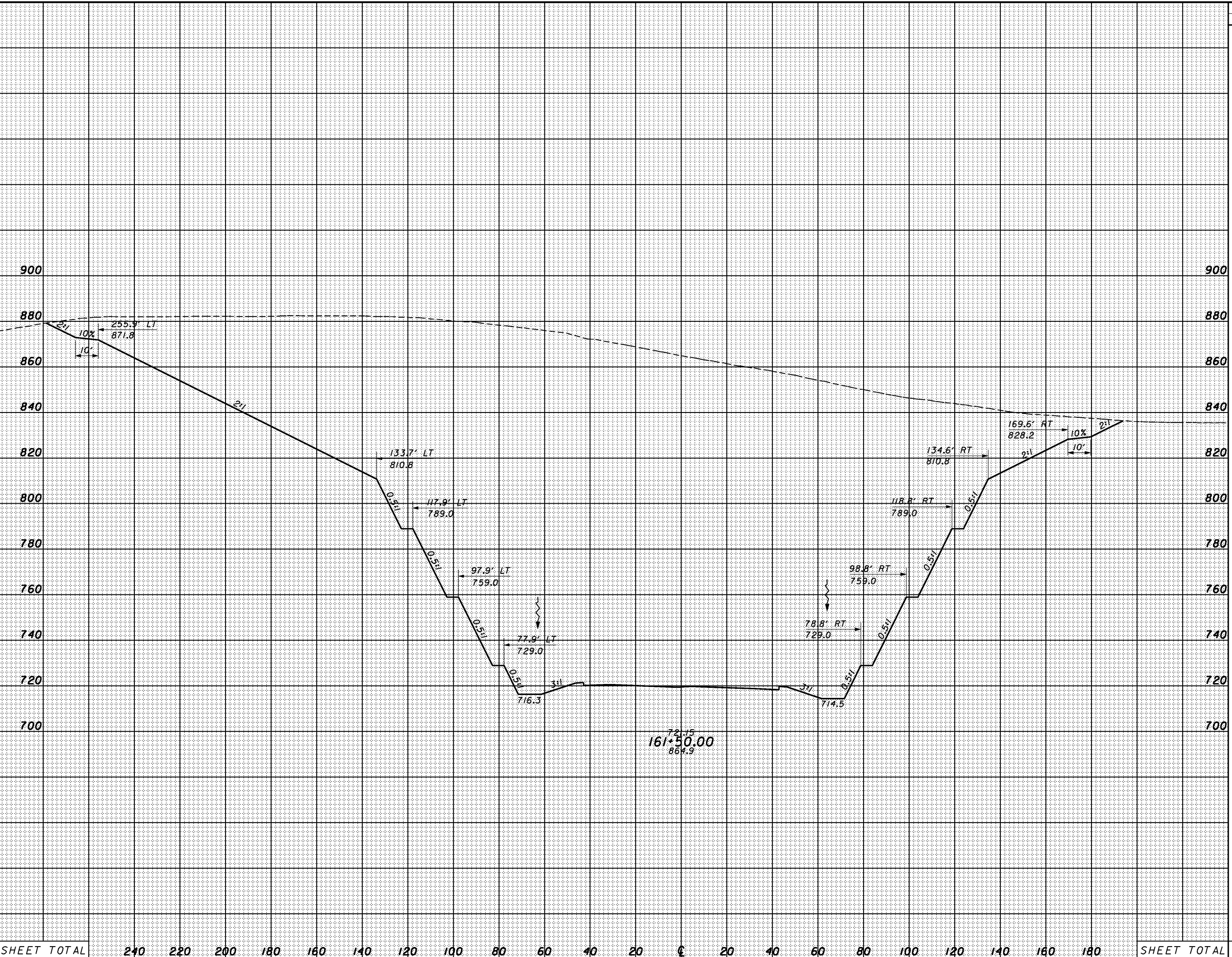
SHEET TOTAL	240	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	SHEET TOTAL
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8:56:36 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\173666xs-sr-823\_e.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



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. 161+50.00

SCI-823-0.00



8:56:36 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_e.dgn

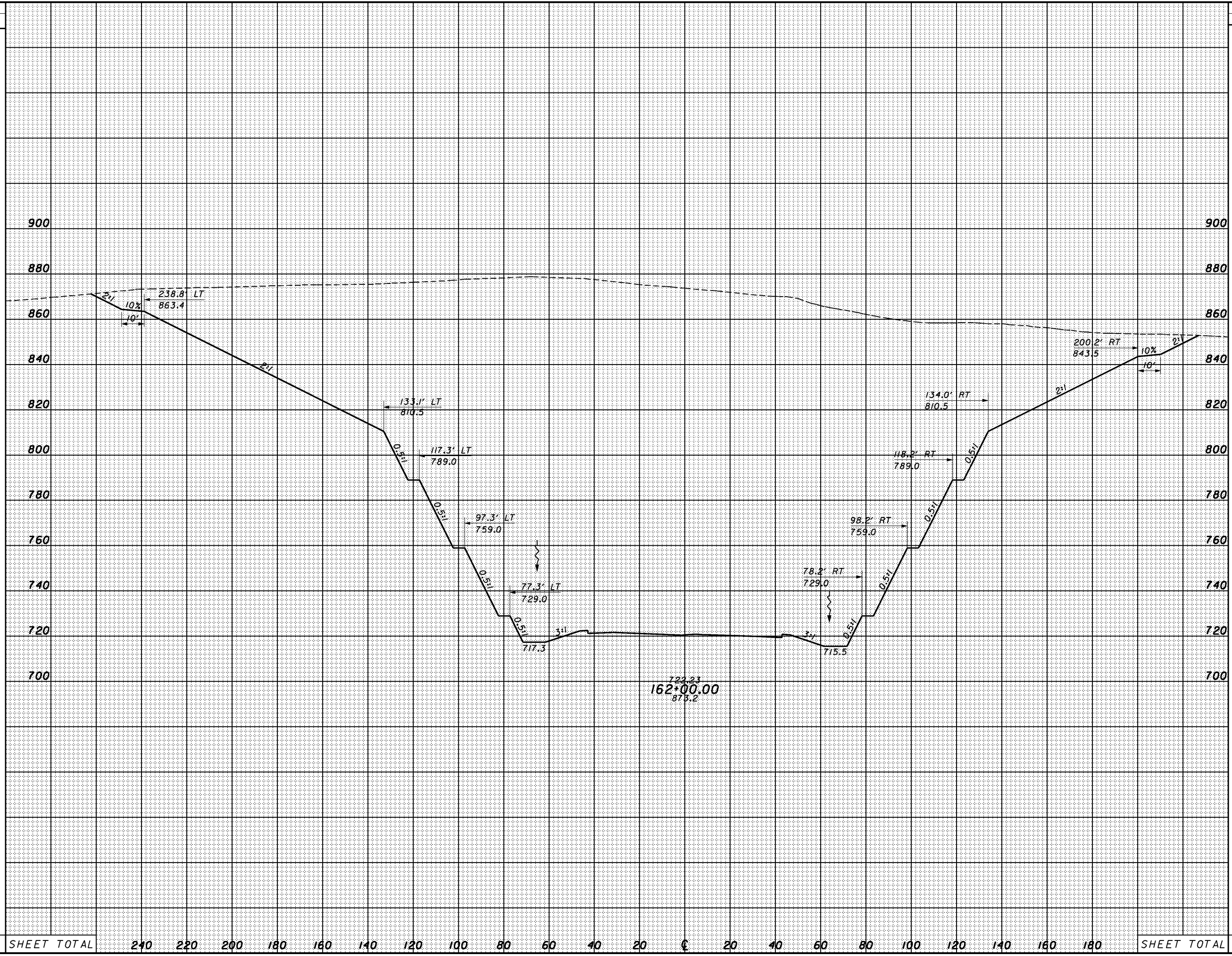
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 162+00.00

SCI-823-0.00

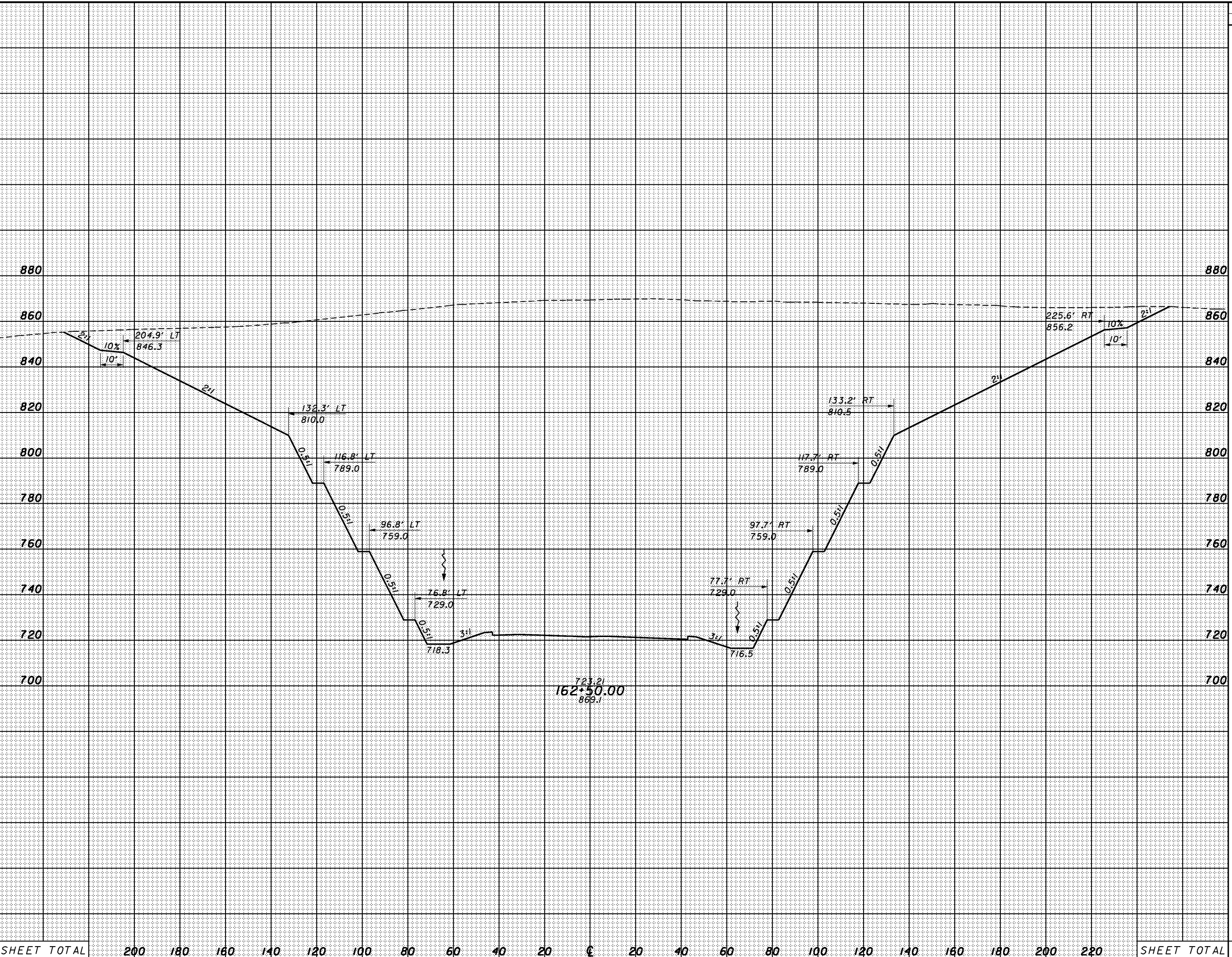


SHEET TOTAL	240	220	200	180	160	140	120	100	80	60	40	20	CL	20	40	60	80	100	120	140	160	180	SHEET TOTAL
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8:56:37 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_e.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



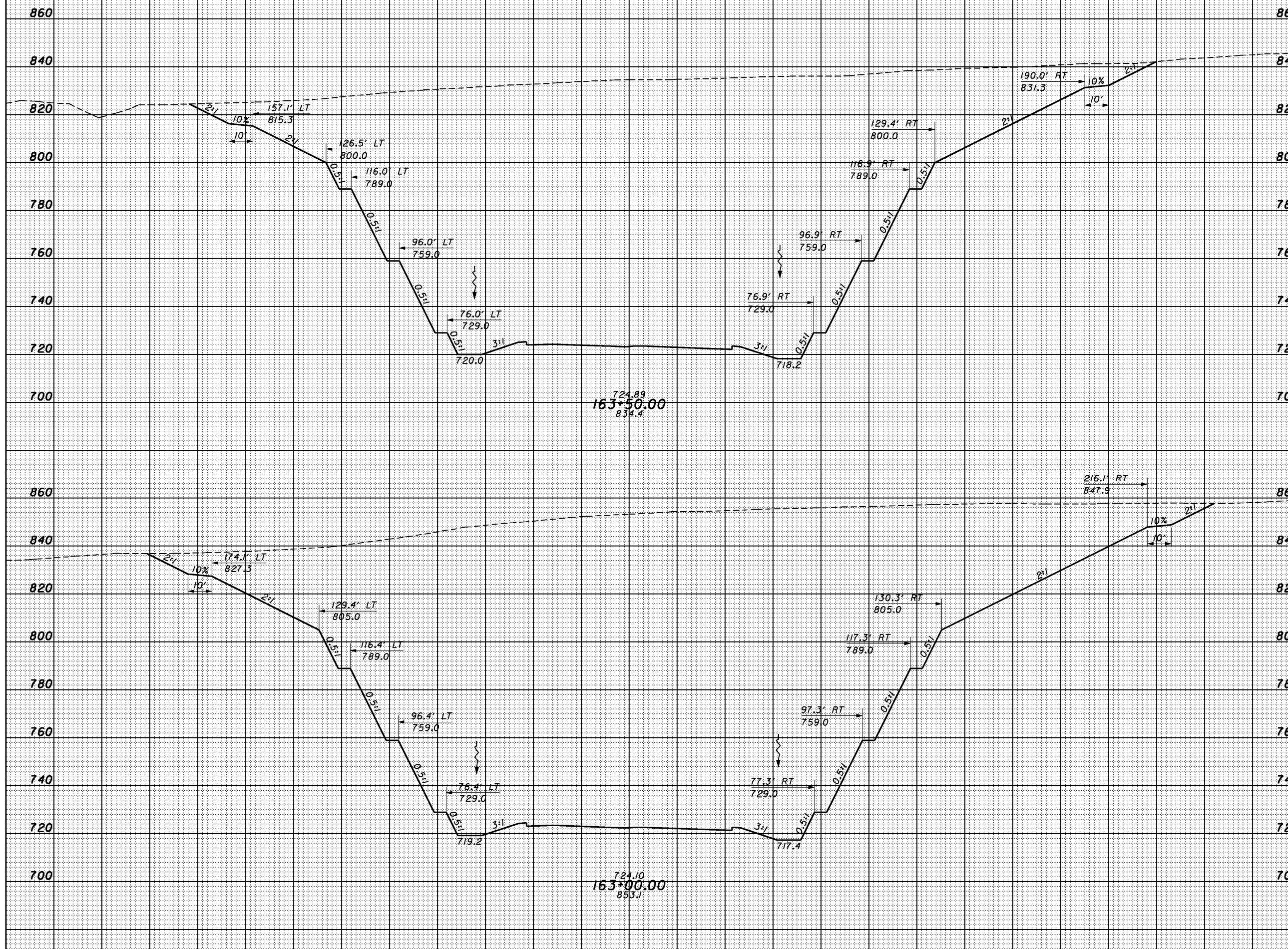
CROSS SECTIONS  
SR823 - STA. 162+50.00

SCI-823-0.00

SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

84638.AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_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

CROSS SECTIONS  
SR823 - STA. 163+00.00 TO STA. 163+50.00

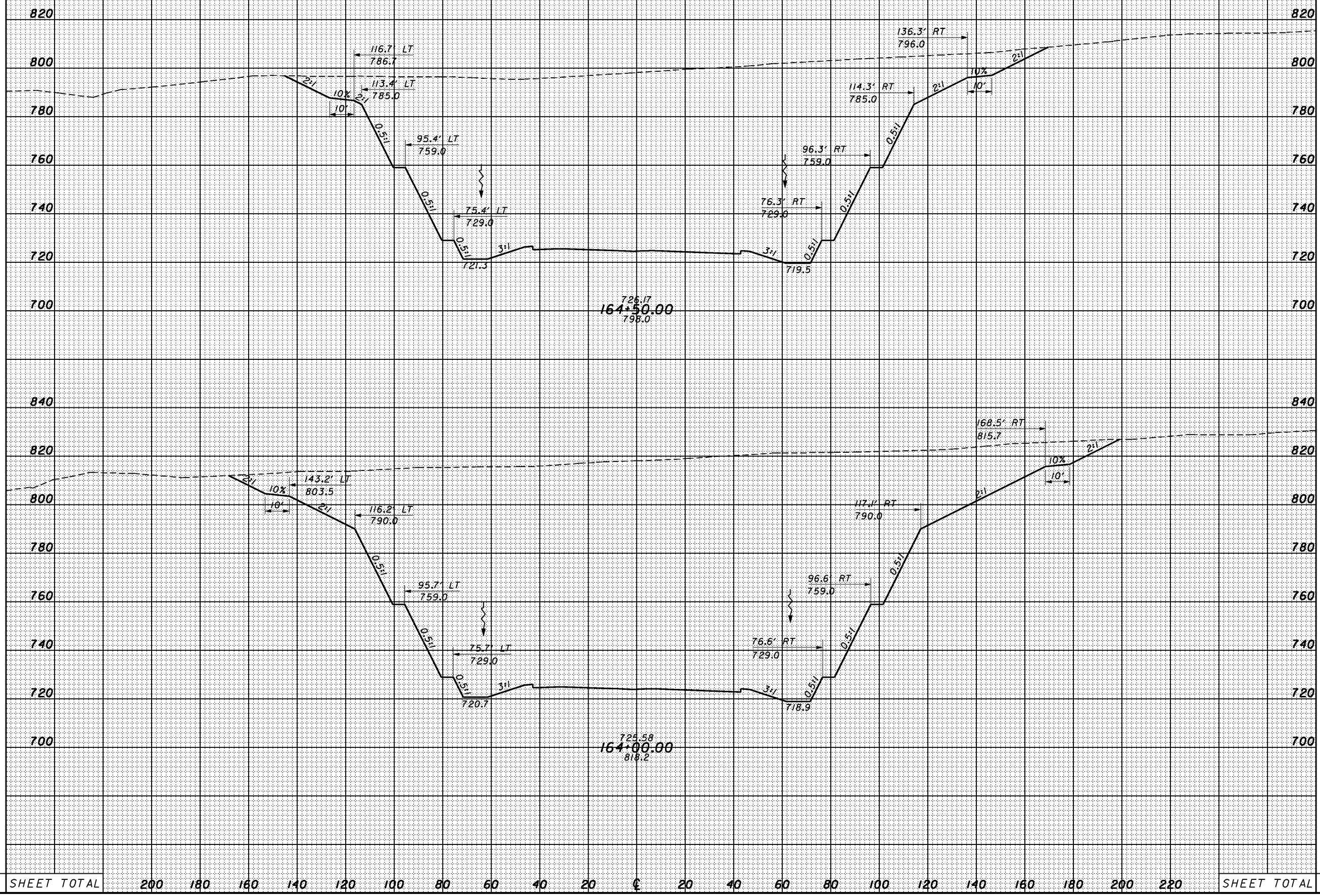
SCI-823-0.00



SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8/5/03 9:39 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_e.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

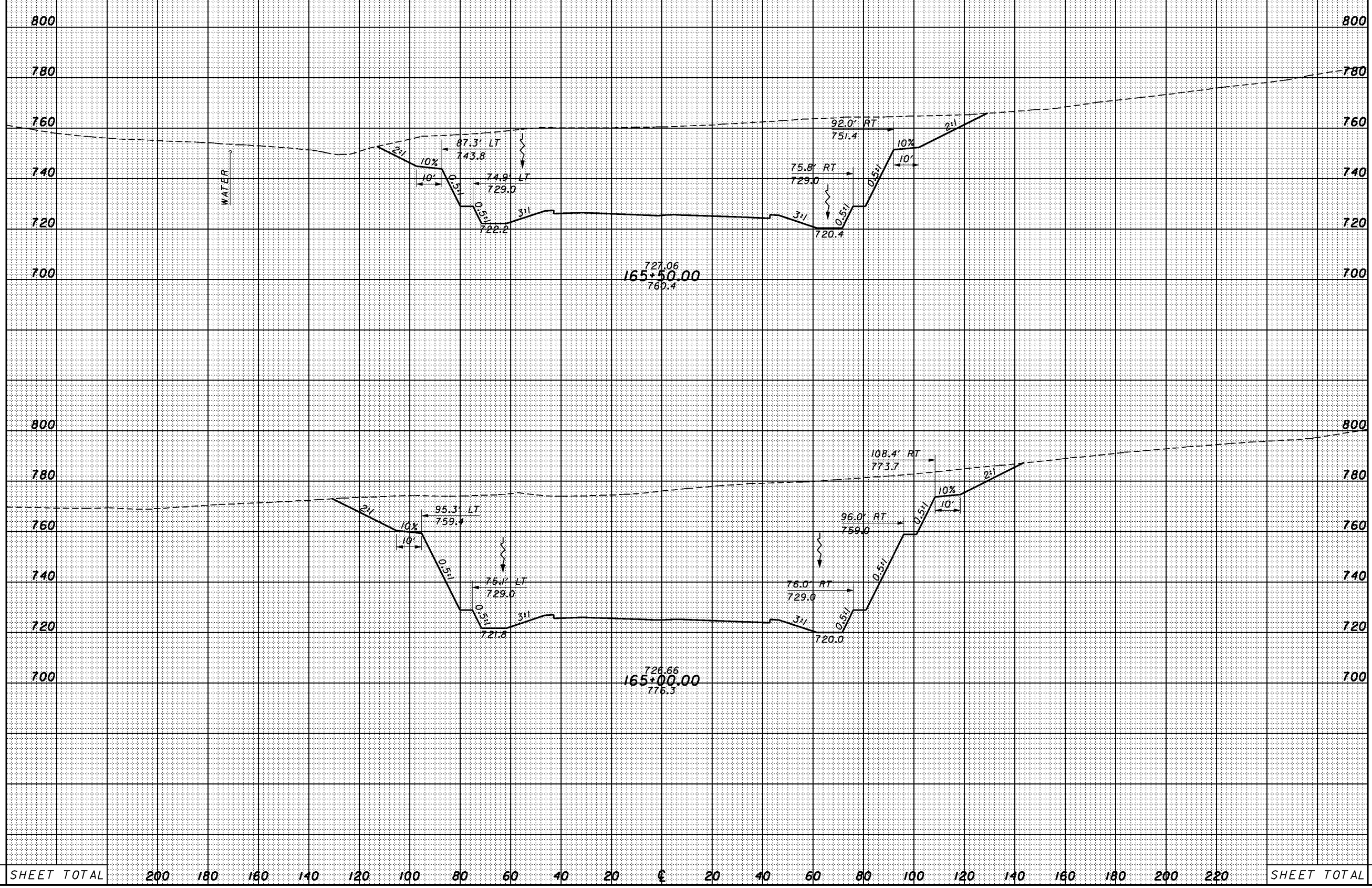
CROSS SECTIONS  
 SR823 - STA. 164+00.00 TO STA. 164+50.00  
 SCI-823-0.00  
 262



SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8:56:40 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668xs-sr-823\_e.dgn



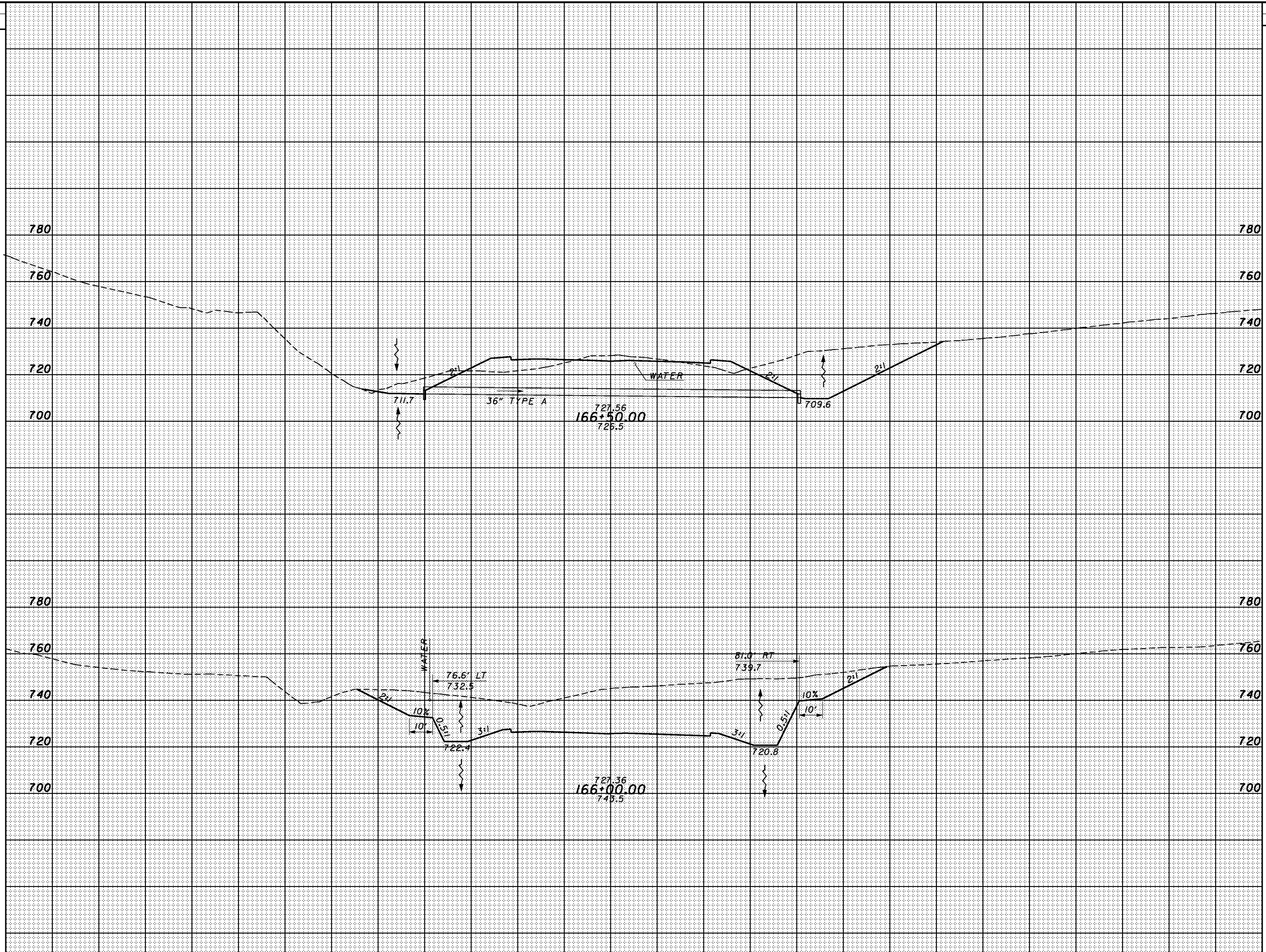
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 165+00.00 TO STA. 165+50.00  
SCI-823-0.00  
263

8:56:41 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_e.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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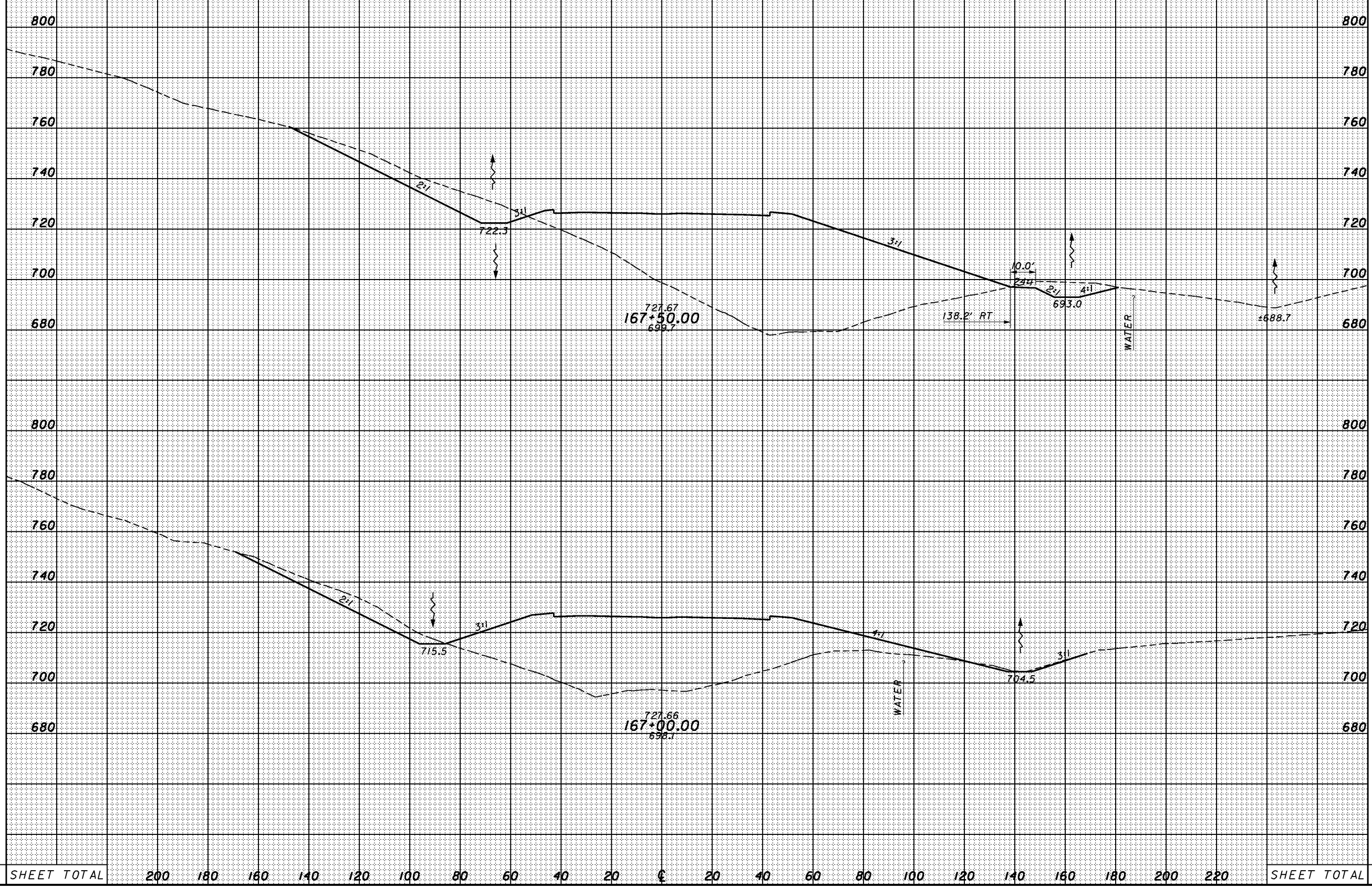
CROSS SECTIONS  
 SR823 - STA. 166+00.00 TO STA. 166+50.0

SCI-823-0.00

8:56:42 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_e.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

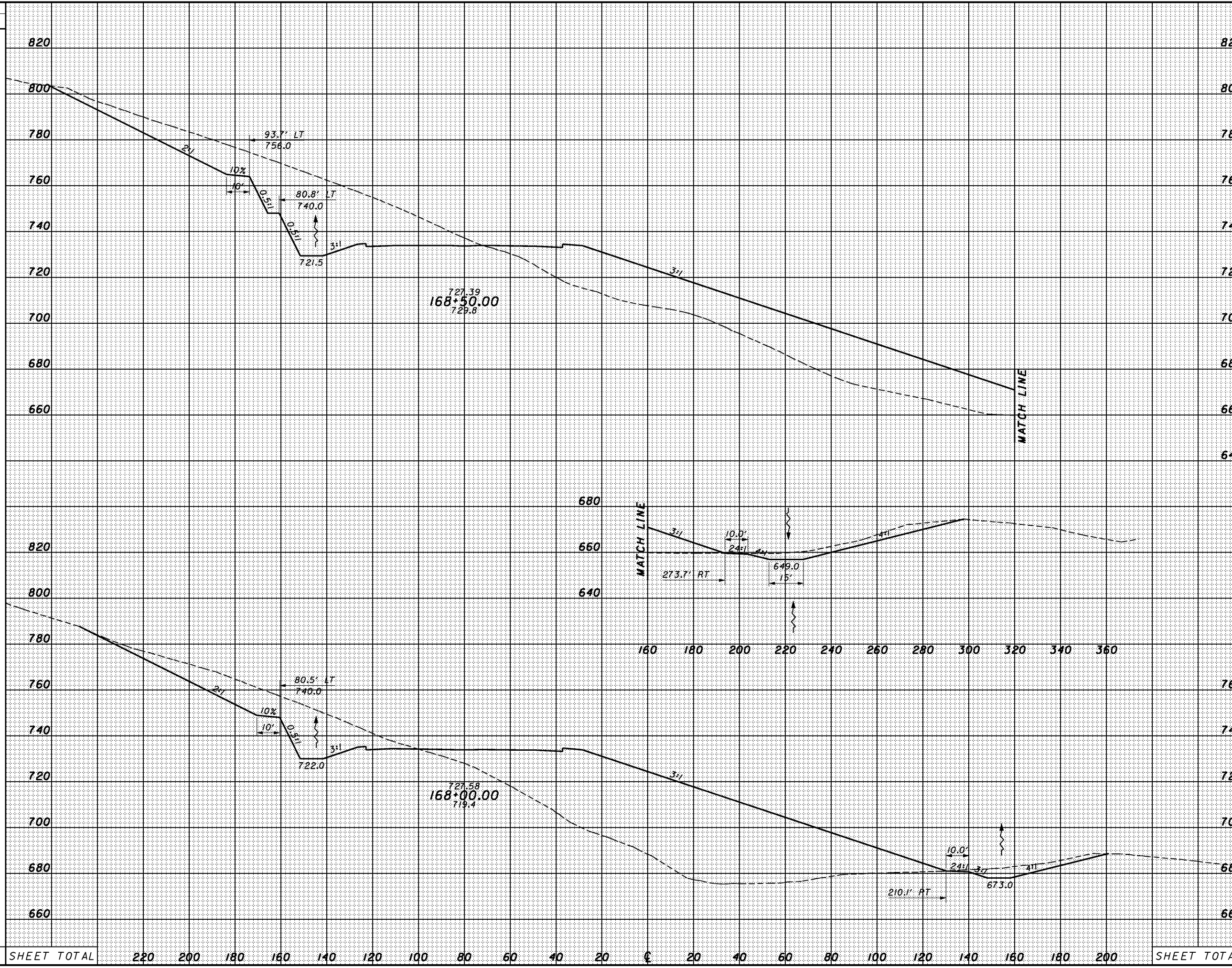


CROSS SECTIONS  
SR823 - STA. 167+00.00 TO STA. 167+50.00

SCI-823-0.00



SEEDING  
 END WIDTH SO. YDS.  
 8/5/04 3 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13668x-sr-823\_e.dgn



END	AREA		VOLUME		CALCULATED	CHECKED																	
	CUT	FILL	CUT	FILL																			
820																							
800																							
780																							
760																							
740																							
720																							
700																							
680																							
660																							
640																							
820																							
800																							
780																							
760																							
740																							
720																							
700																							
680																							
660																							
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

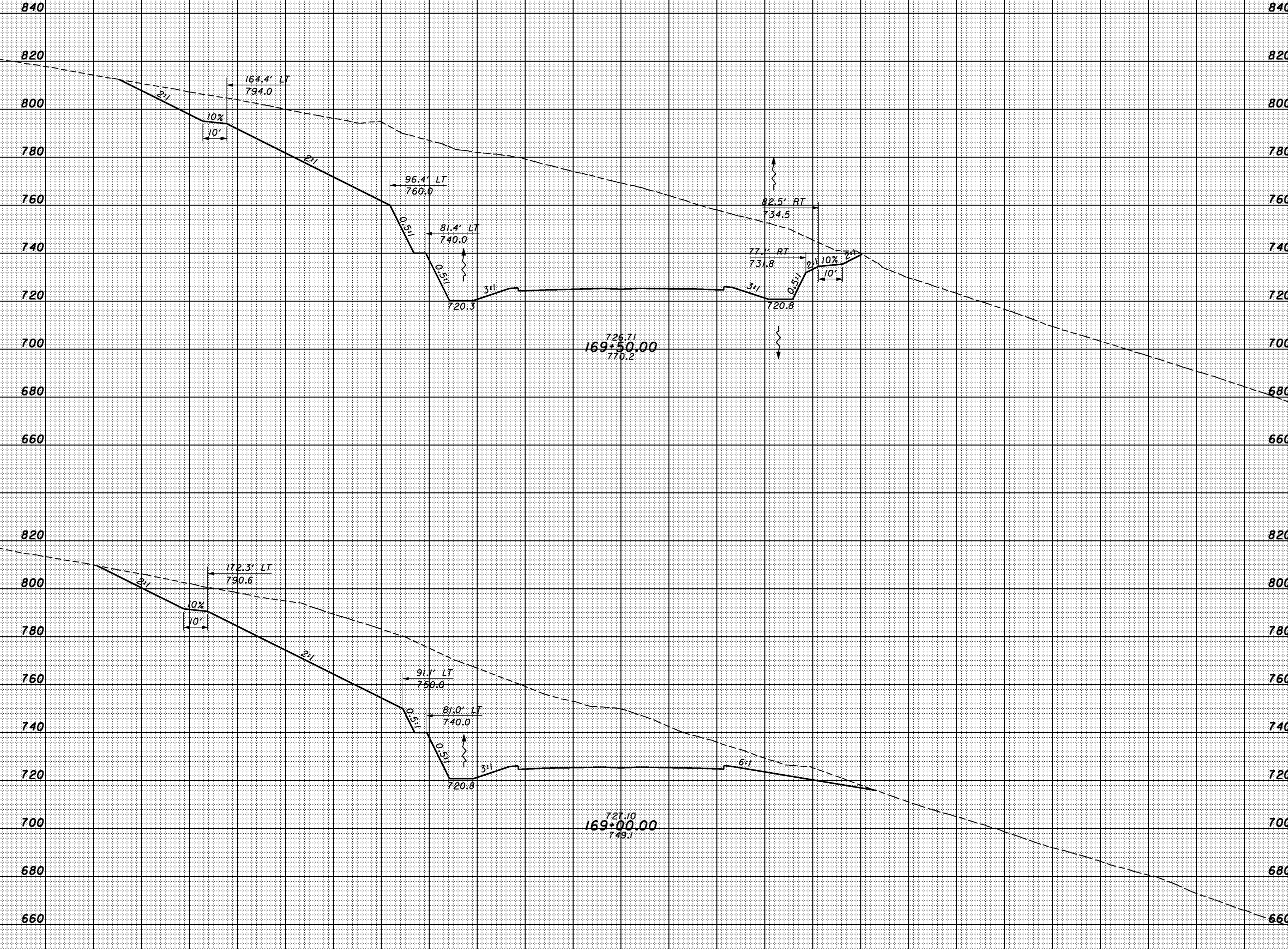
CROSS SECTIONS  
 SR823 - STA. 168+00.00 TO STA. 168+50.00  
 SCI-823-0.00



8/5/14 4:44 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_e.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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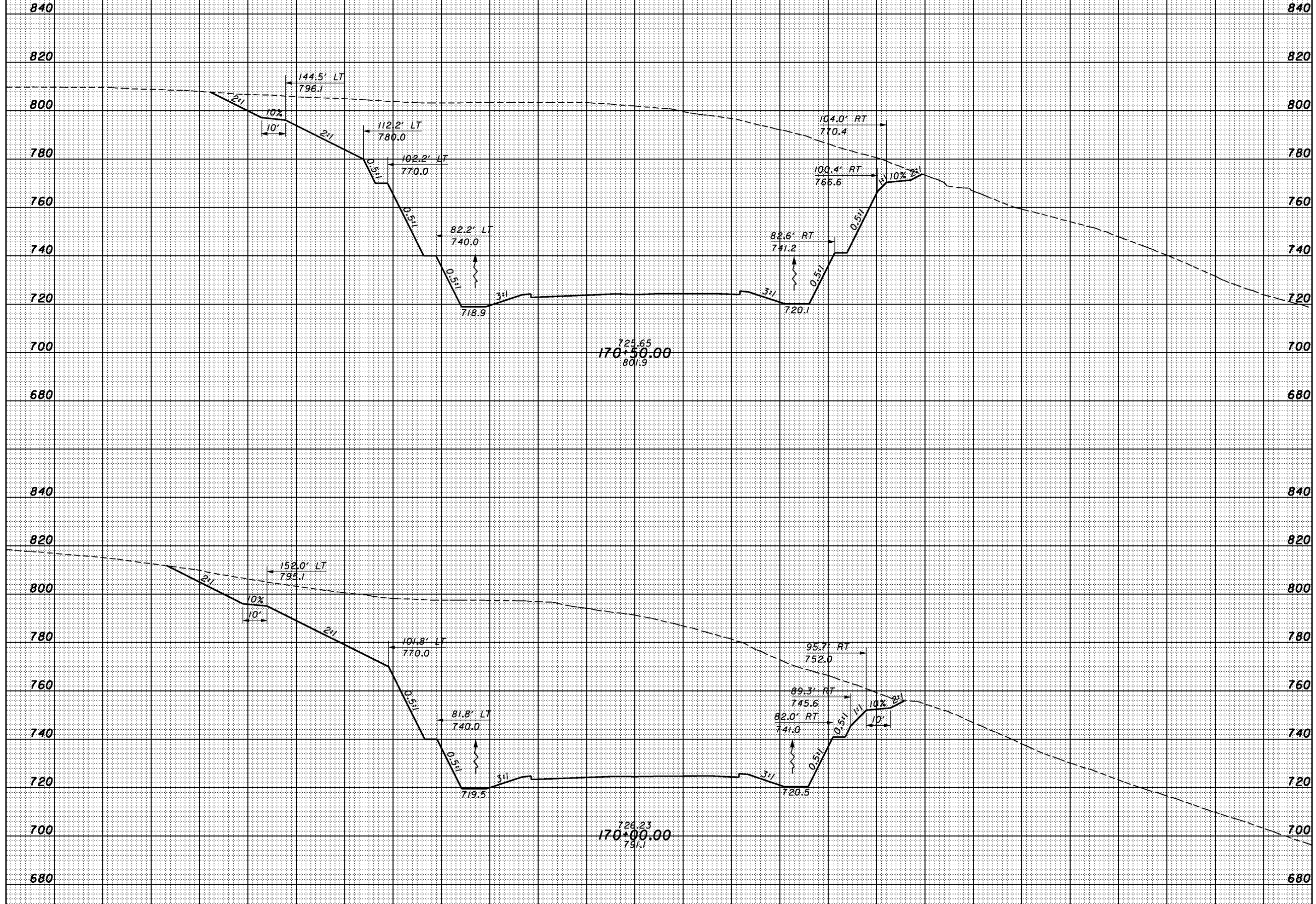
CROSS SECTIONS  
SR823 - STA. 169+00.00 TO STA. 169+50.00

SCI-823-0.00

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8/5/05 4:45 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668xs-sr-823\_e.dgn



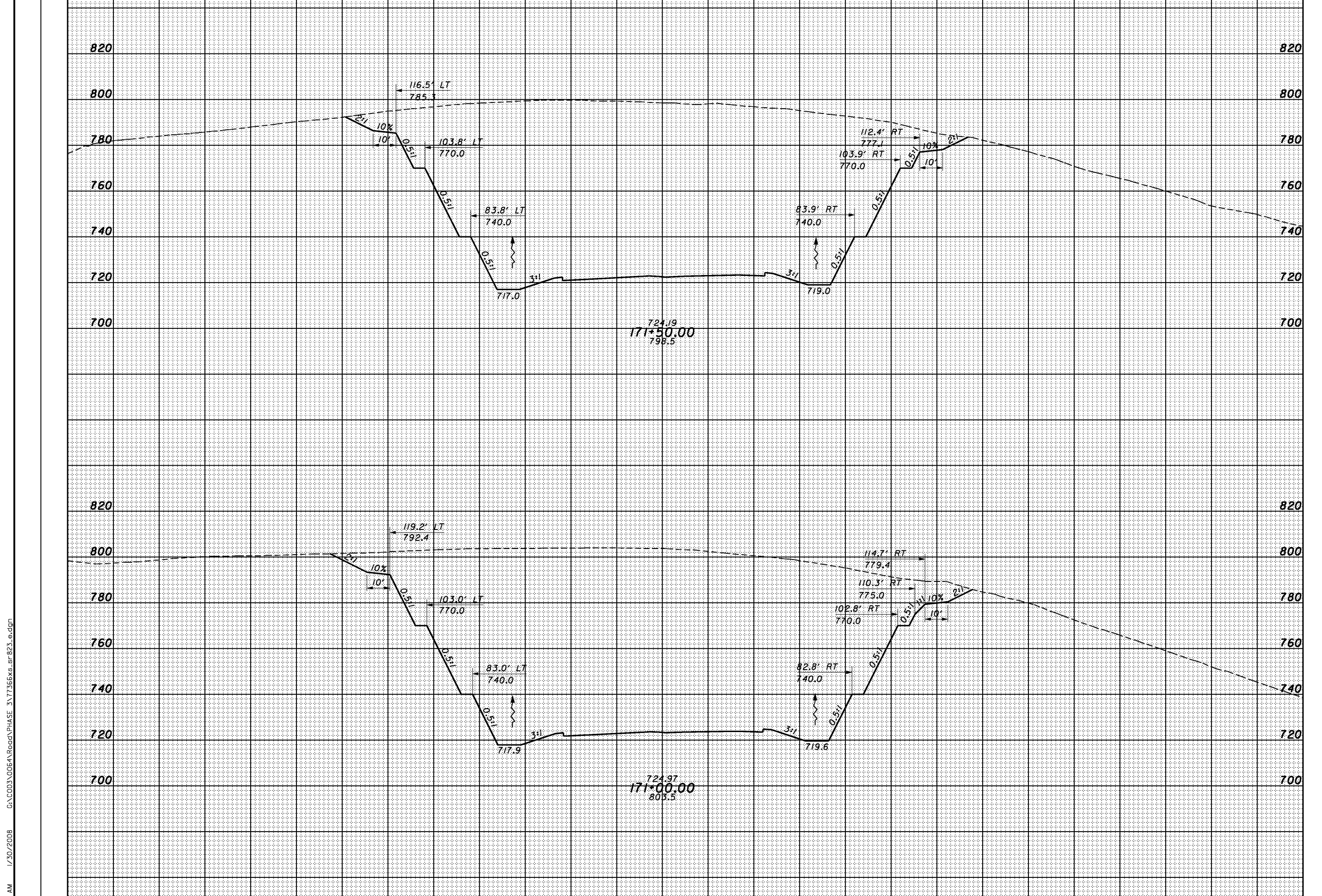
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

SR823 - STA. 170+00.00 TO STA. 170+50.00

SCI-823-0.00

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. 171+00.00 TO STA. 171+50.00

SCI-823-0.00

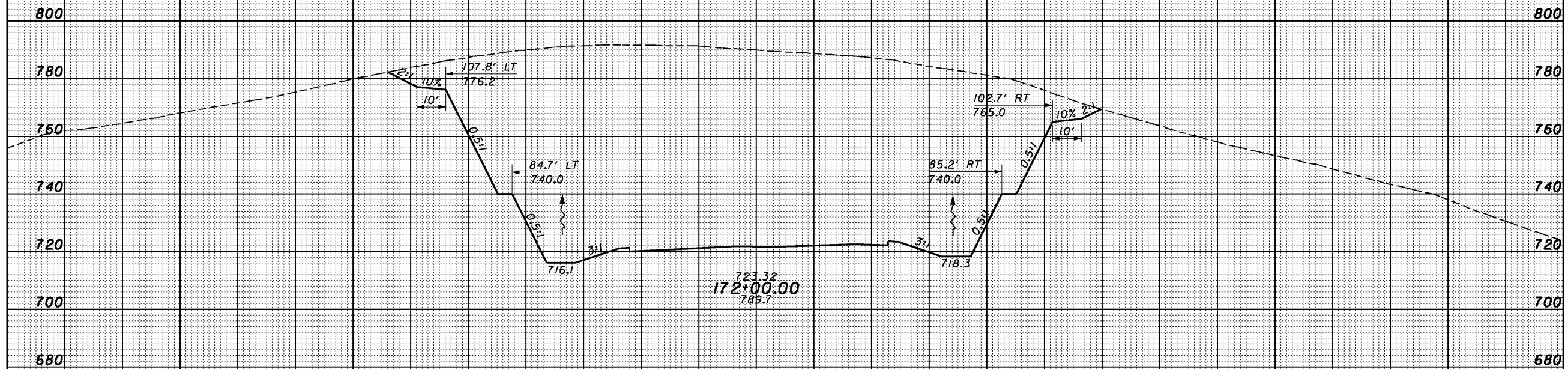
8/5/14 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668xs-sr-823\_e.dgn



SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8:56:47 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_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

CROSS SECTIONS  
SR823 - STA. 172+00.00

SCI-823-0.00

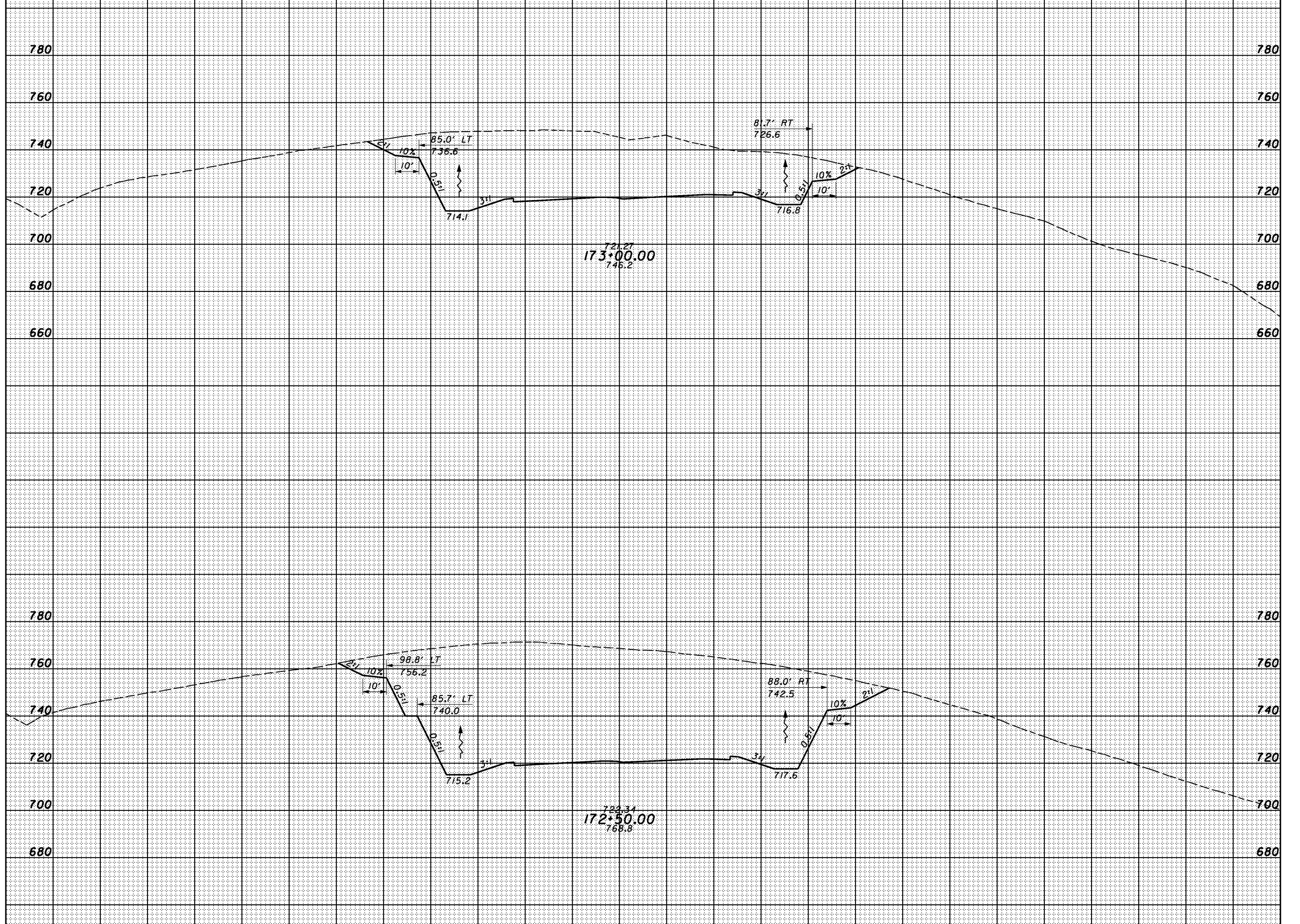
270



SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8/5/04 8 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823\_e.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

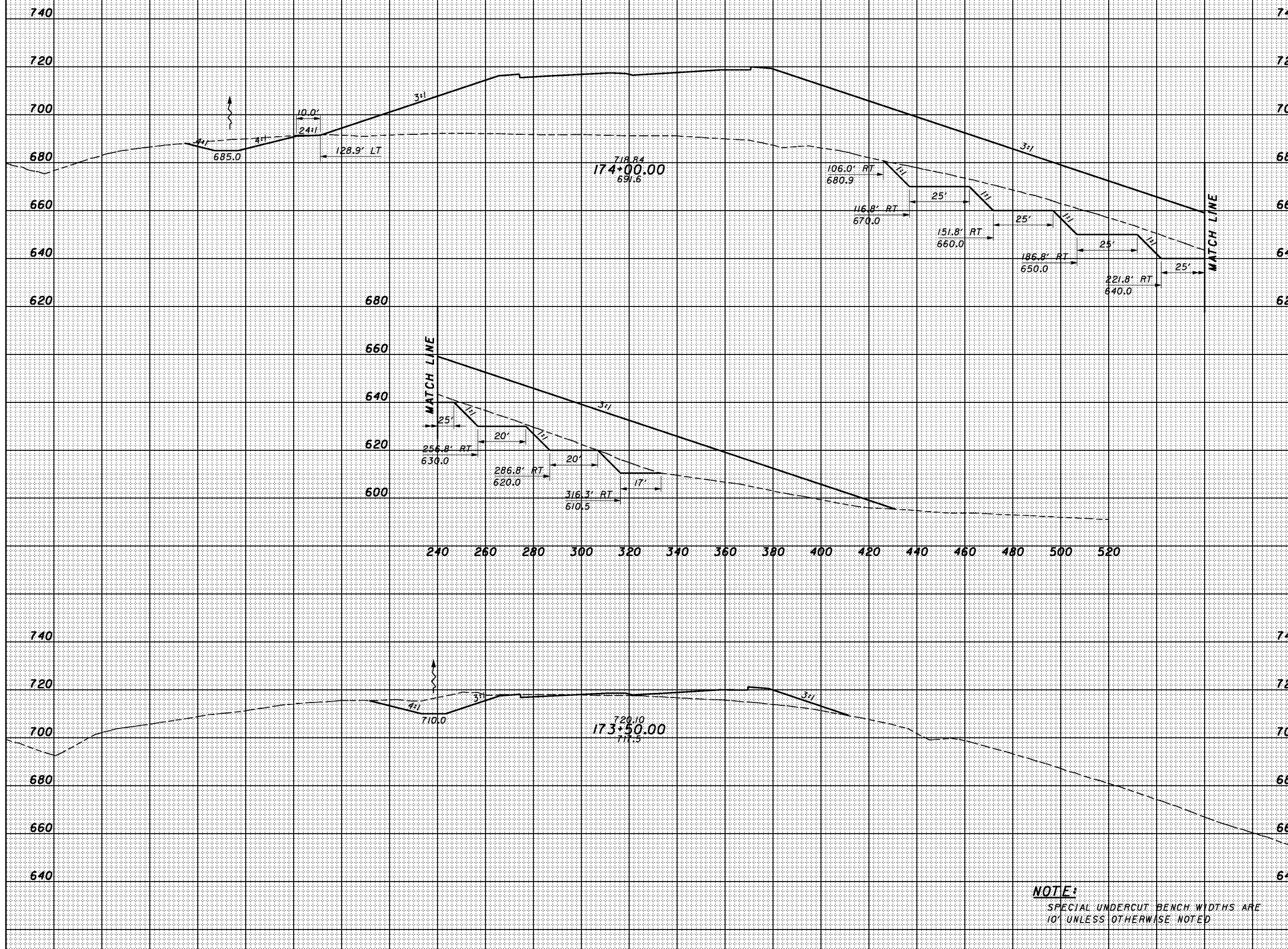
**CROSS SECTIONS**  
**SR823 - STA. 172+50.00 TO STA. 173+00.00**

**SCI-823-0.00**

SEEDING  
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

8:56:50 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823-f.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:**  
SPECIAL UNDERCUT BENCH WIDTHS ARE 10' UNLESS OTHERWISE NOTED

CROSS SECTIONS  
 SR823 - STA. 173+50.00 TO STA. 174+00.00

SCI-823-0.00

272

SEEDING  
END WIDTH SO. YDS.

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

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



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

SHEET TOTAL

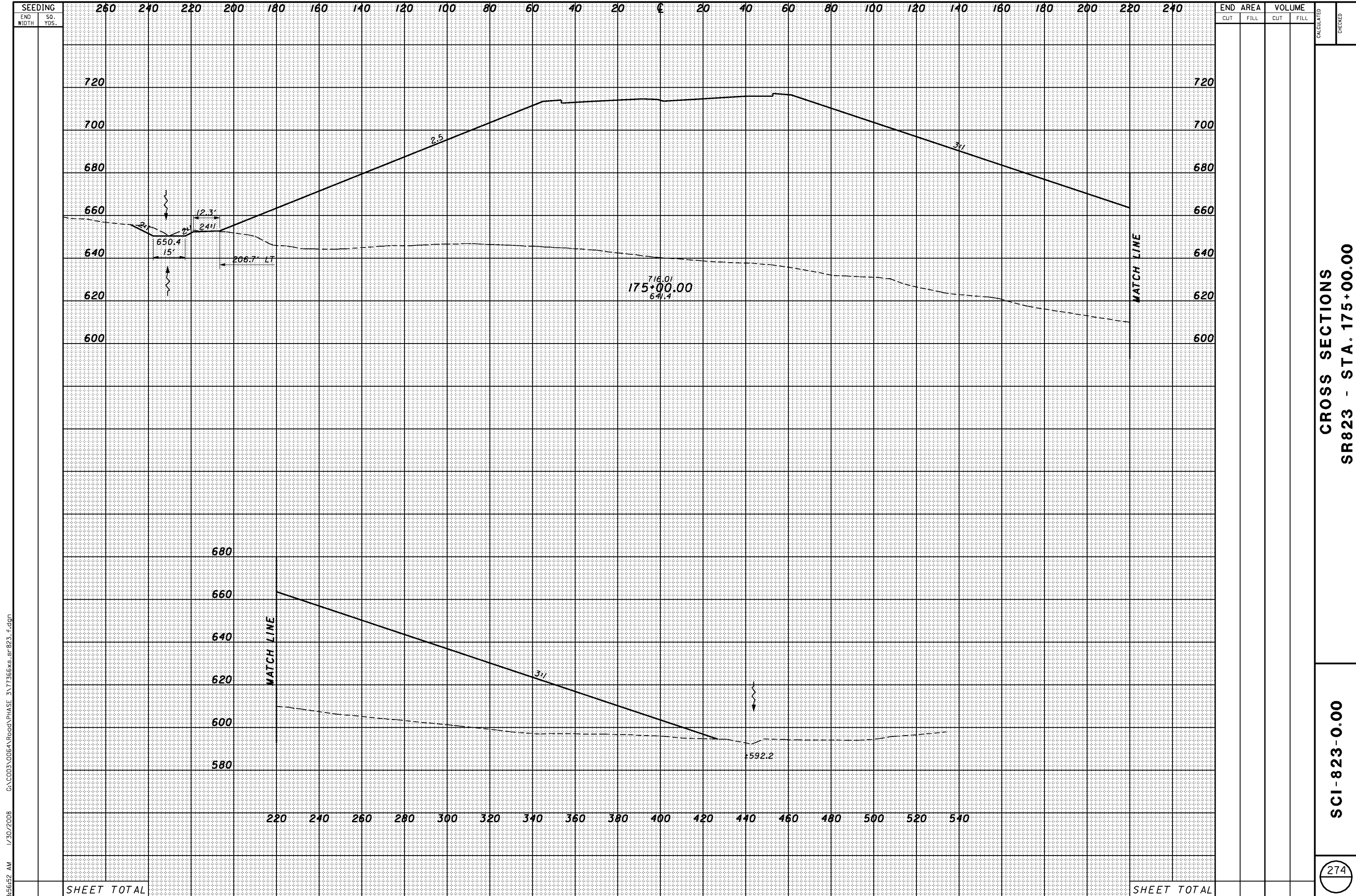
SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 174+50.00

SCI-823-0.00

1/30/2008 8:56:51 AM G:\C003\0064\Road\PHASE 3\173666xs-sr-823\_f.dgn





SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

**CROSS SECTIONS**  
**SR823 - STA. 175+00.00**

**SCI-823-0.00**

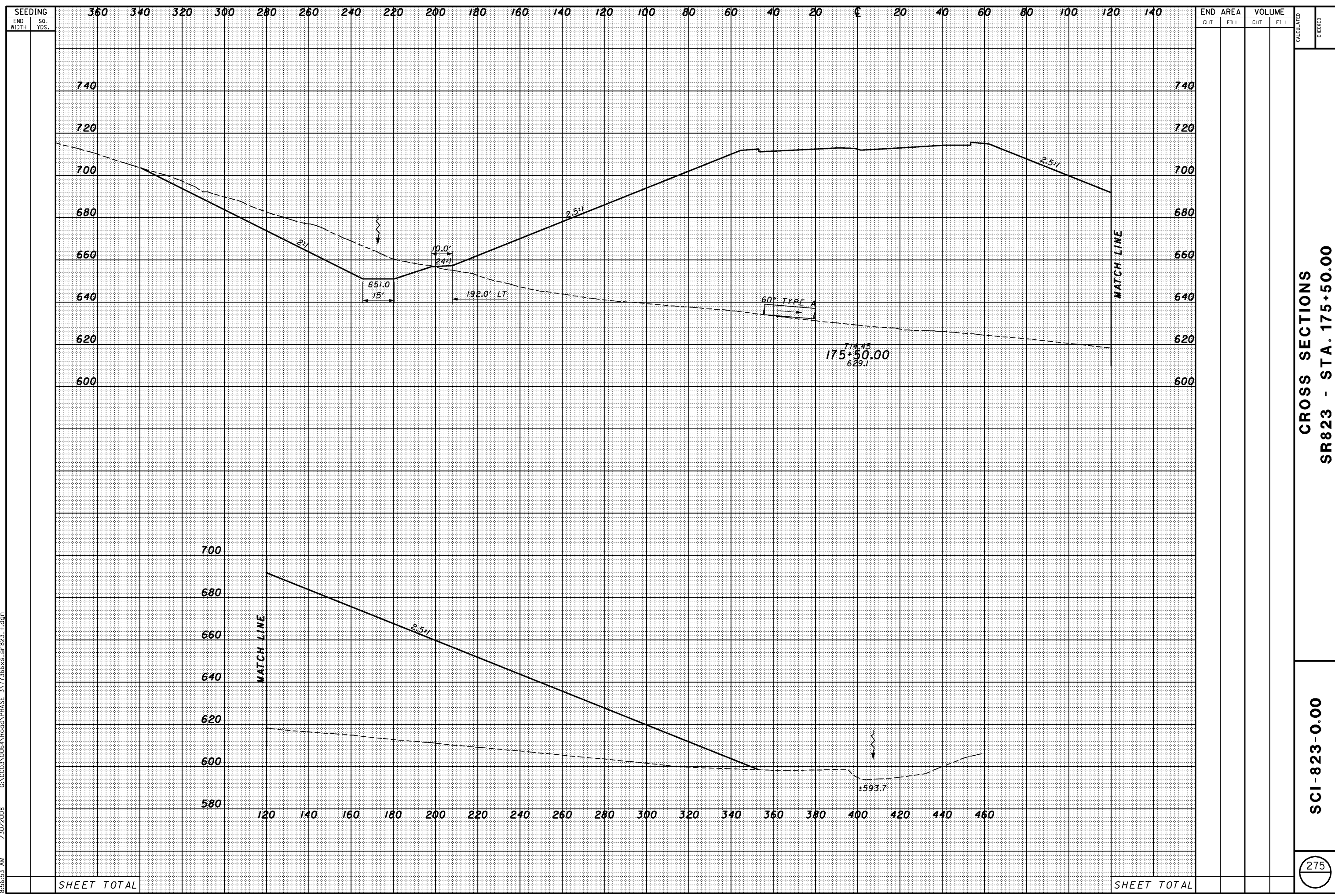
1/30/2008 8:56:52 AM G:\C003\0064\Road\PHASE 3\T13668s-sr-823\_f.dgn

SHEET TOTAL

SHEET TOTAL

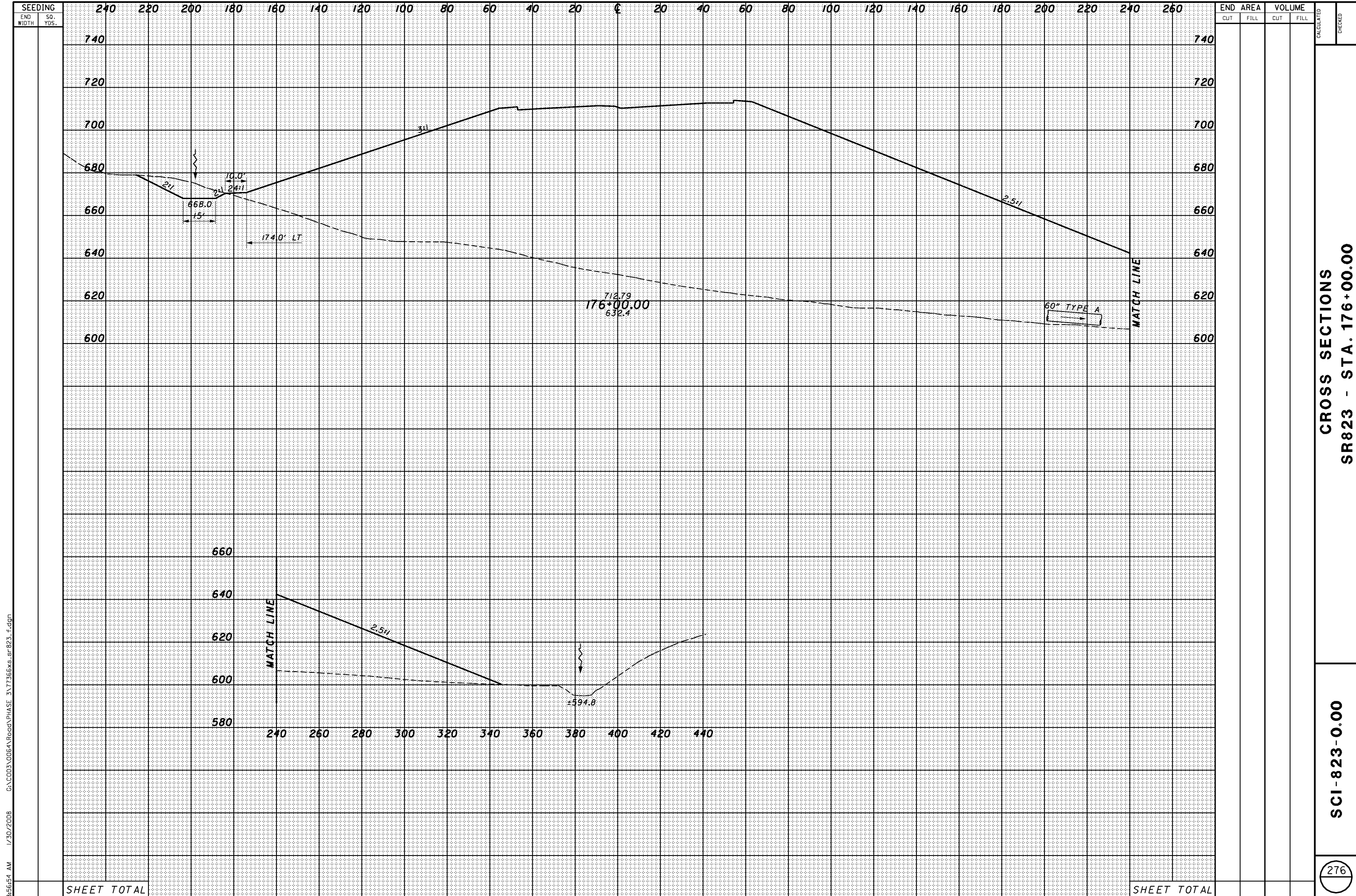


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**CROSS SECTIONS**  
**SR823 - STA. 175+50.00**

**SCI-823-0.00**



1/30/2008 G:\C003\0064\Road\PHASE 3\173668s-sr-823\_f.dgn  
 8:56:54 AM

SHEET TOTAL

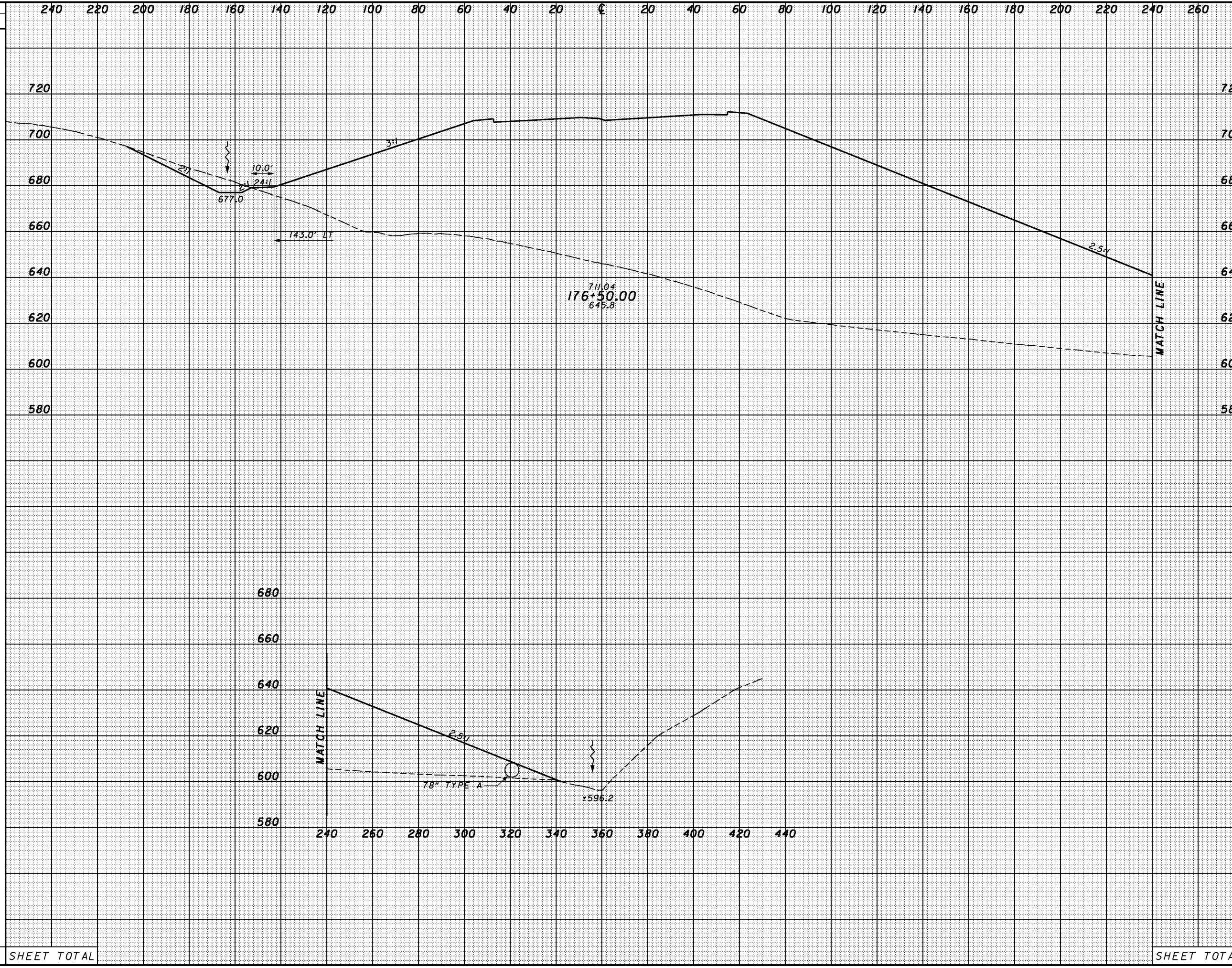
SHEET TOTAL

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

**CROSS SECTIONS**  
**SR823 - STA. 176+00.00**

**SCI-823-0.00**

SEEDING  
END WIDTH SO. YDS.  
1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_f.dgn



END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		
<b>CROSS SECTIONS</b>					
<b>SR823 - STA. 176+50.00</b>					
<b>SCI-823-0.00</b>					
(277)					

SHEET TOTAL

SHEET TOTAL



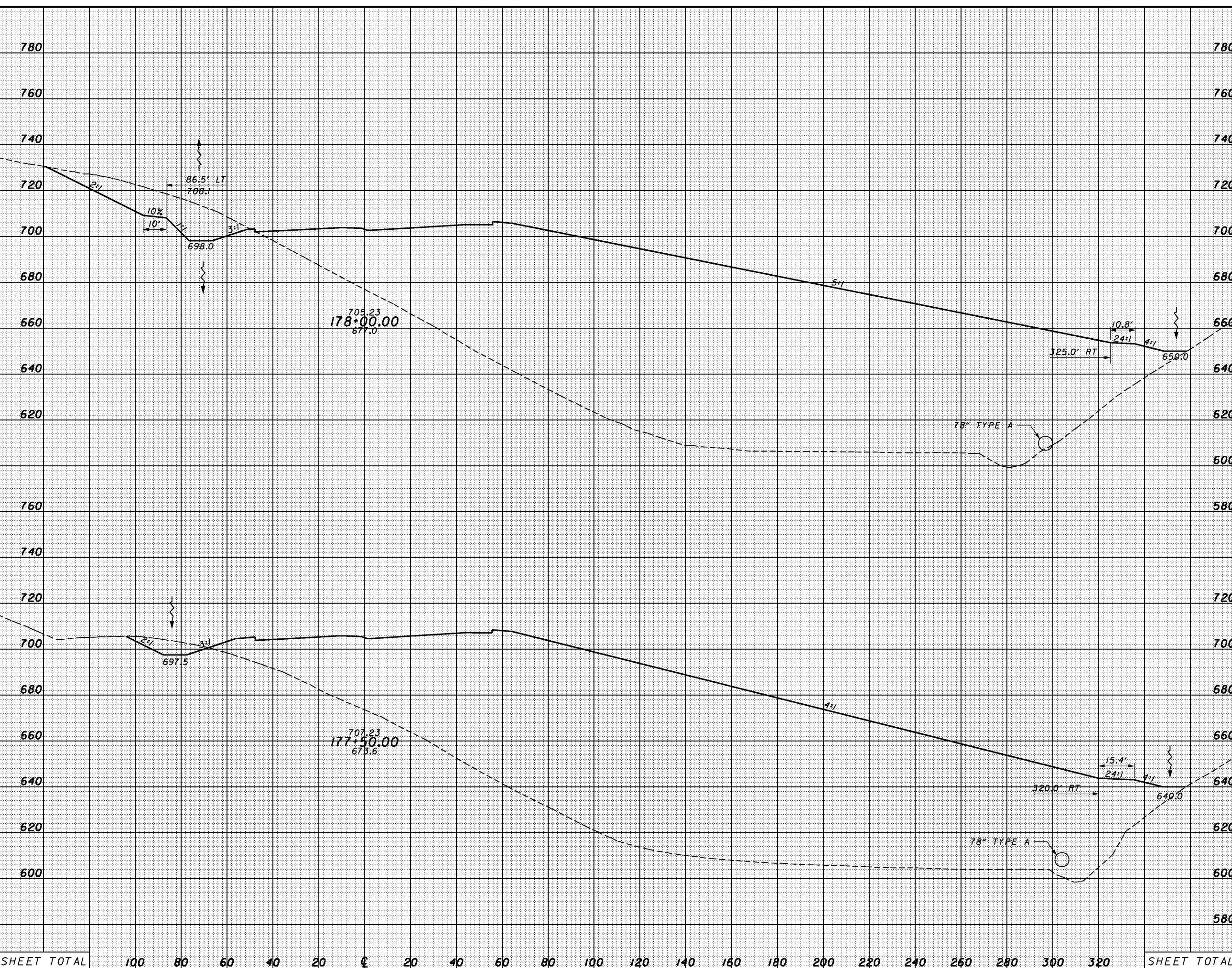




8:56:57 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823-f.dgn

SEEDING	
END WIDTH	SO. YDS.

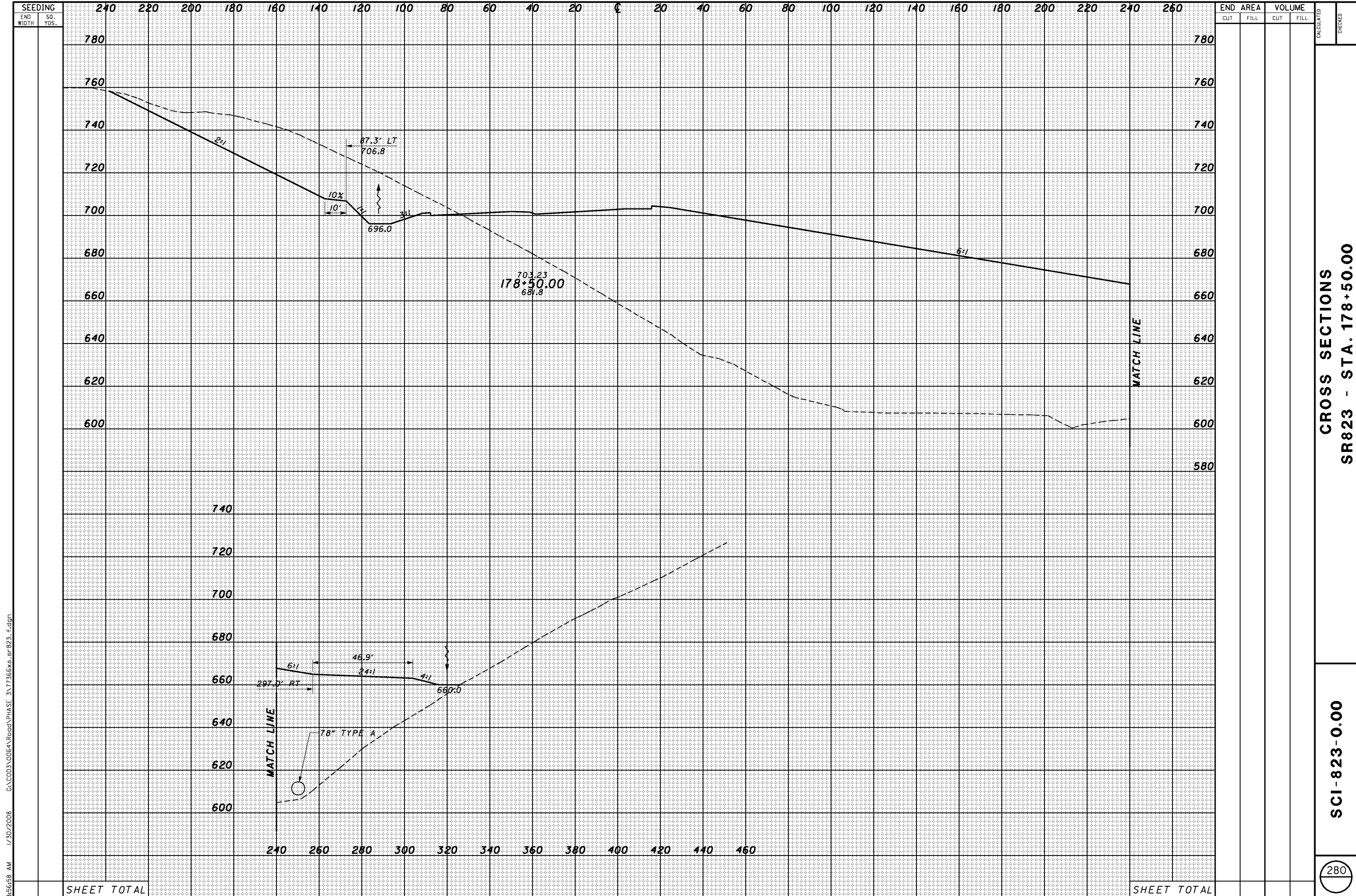
END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	SHEET TOTAL
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CROSS SECTIONS  
 SR823 - STA. 177+50.00 TO STA. 178+00.00

SCI-823-0.00



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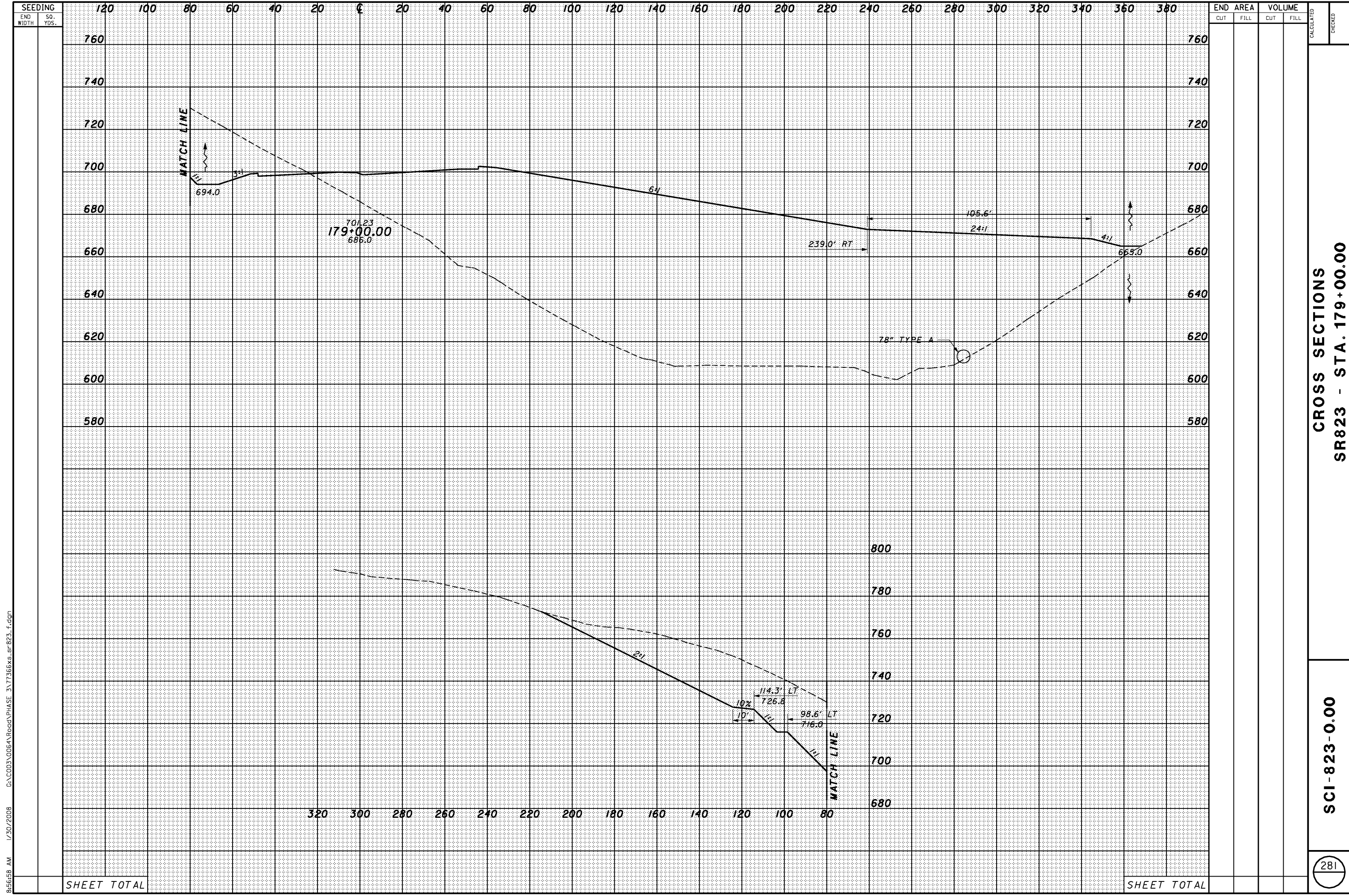
SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		

**CROSS SECTIONS**  
**SR823 - STA. 178+50.00**

**SCI-823-0.00**

SHEET TOTAL

SHEET TOTAL



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

SHEET TOTAL

SHEET TOTAL

**CROSS SECTIONS**  
**SR823 - STA. 179+00.00**

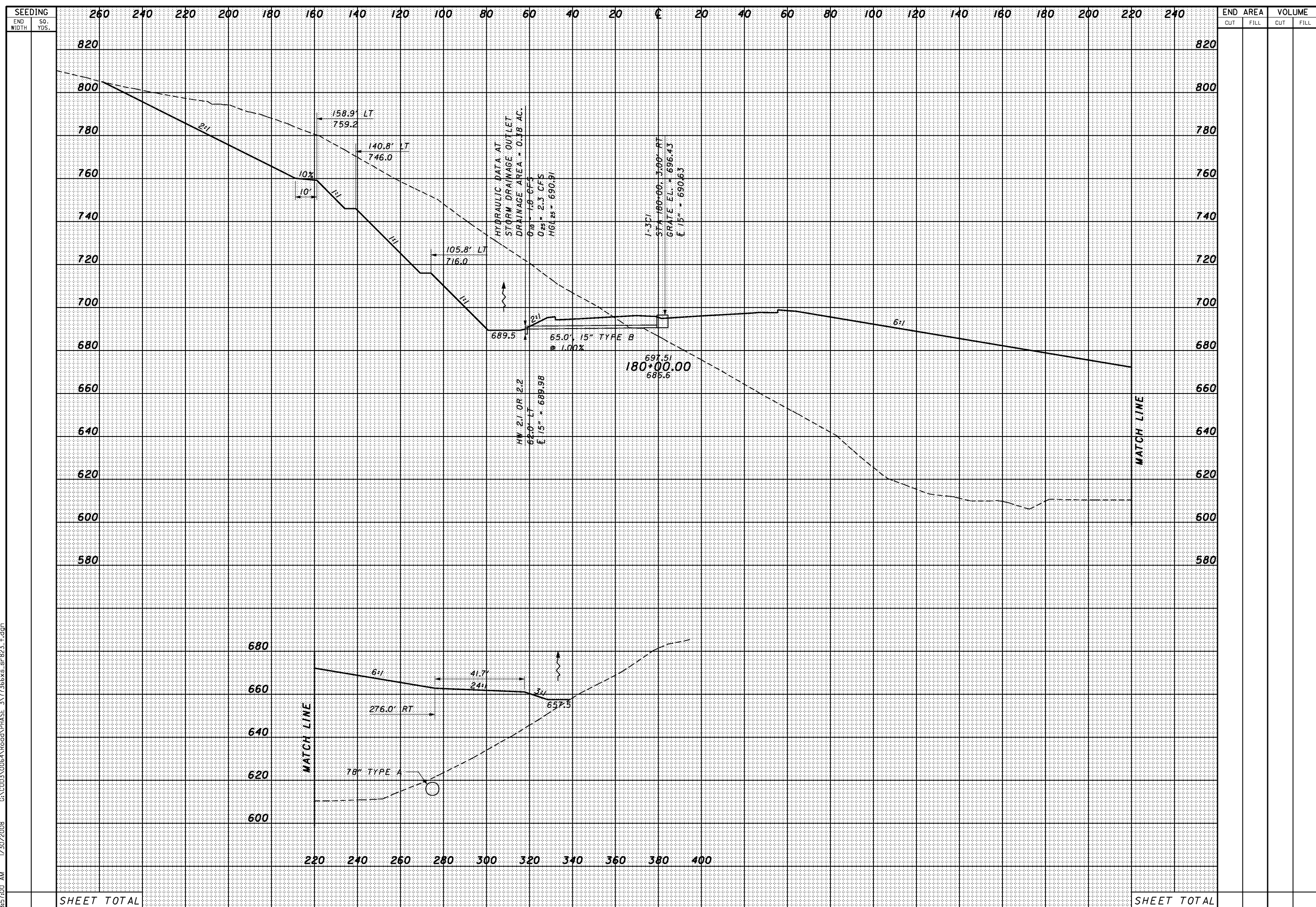
**SCI-823-0.00**







8:57:00 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_f.dgn

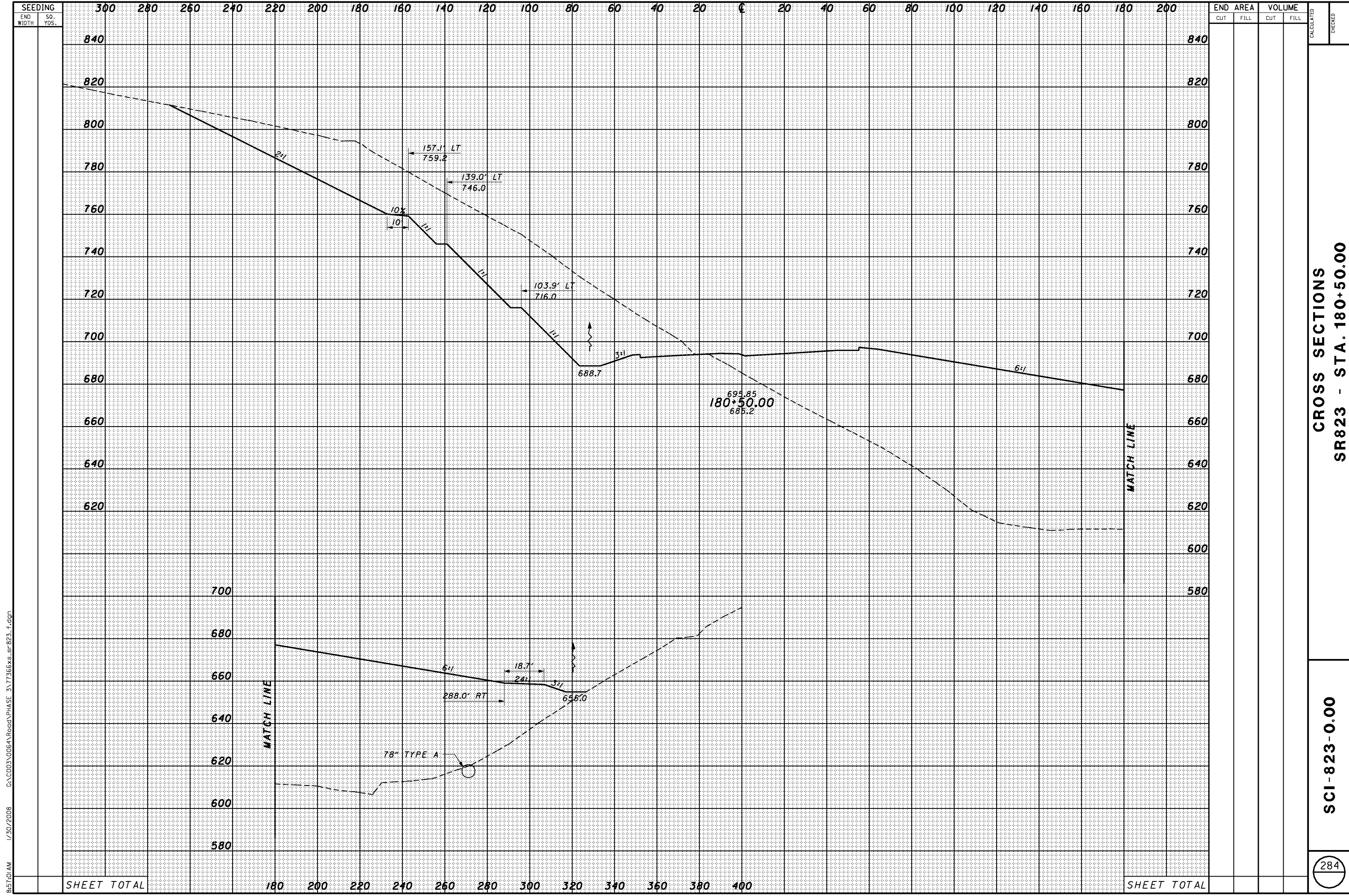


END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

**CROSS SECTIONS  
SR823 - STA. 180+00.00**

**SCI-823-0.00**

283



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

SHEET TOTAL

SHEET TOTAL

**CROSS SECTIONS**  
**SR823 - STA. 180+50.00**

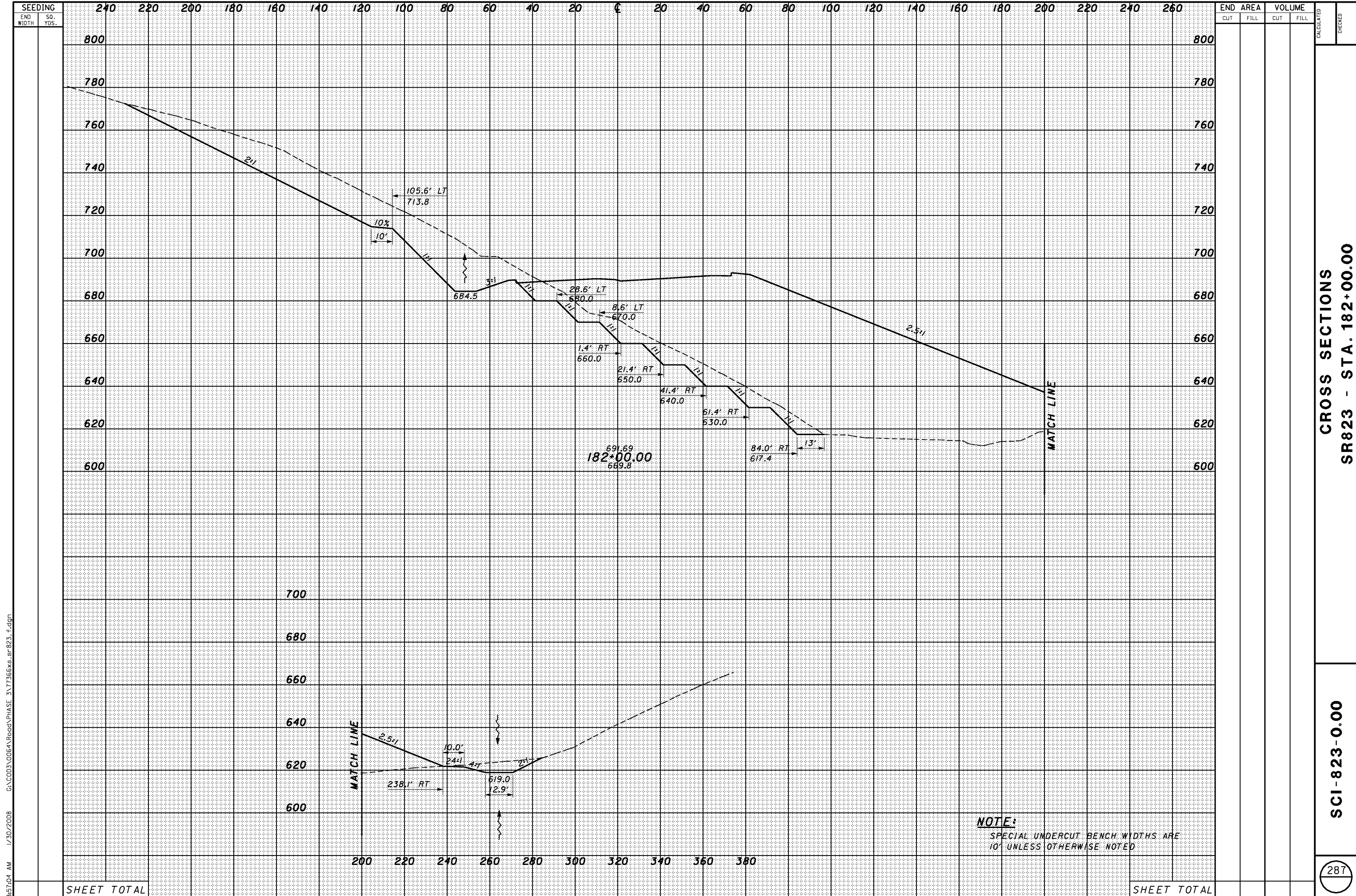
**SCI-823-0.00**











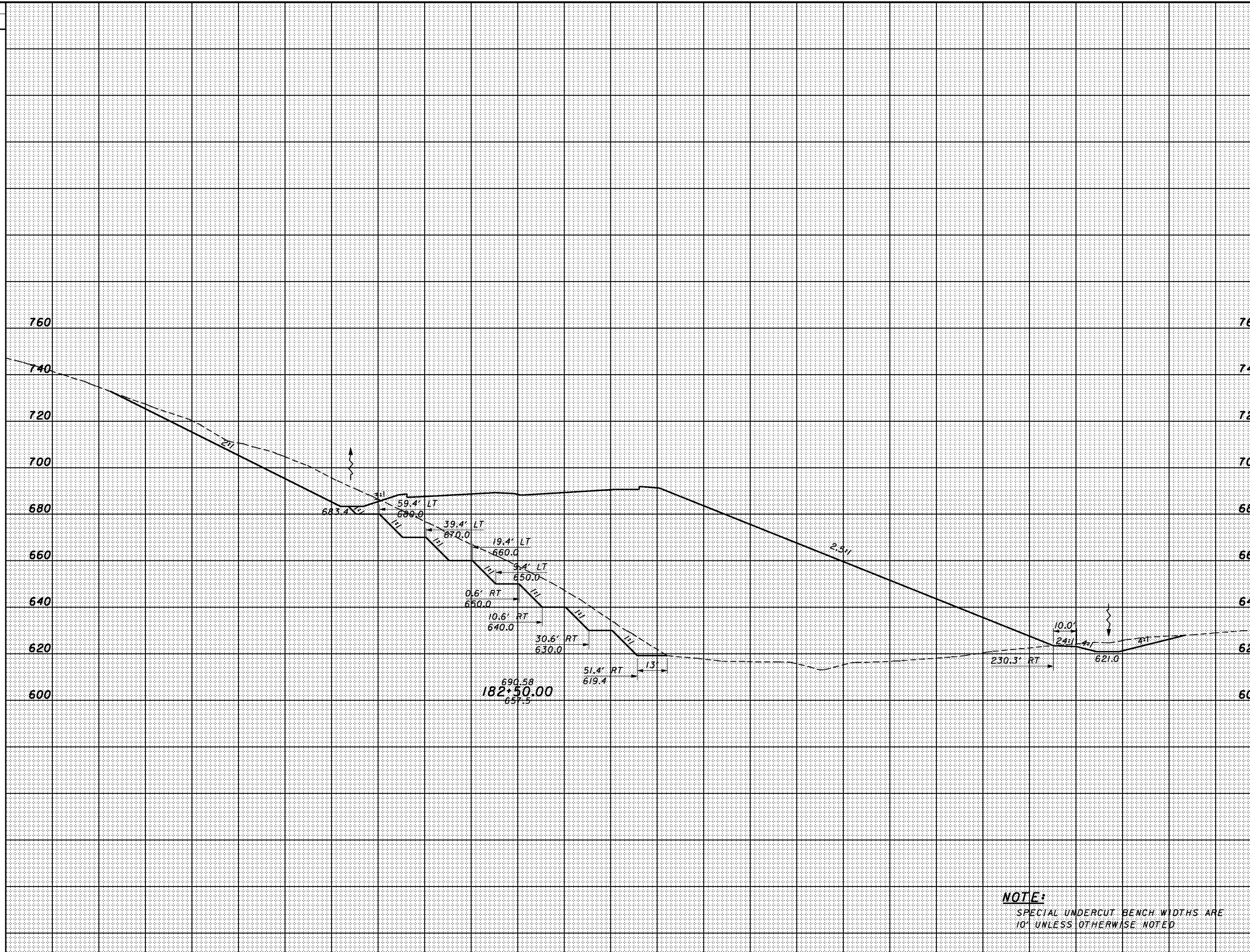
CROSS SECTIONS  
SR823 - STA. 182+00.00

SCI-823-0.00

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SEEDING  
END SO.  
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



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

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

**CROSS SECTIONS**  
**SR823 - STA. 182+50.00**

**SCI-823-0.00**

8:57:06 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_f.dgn

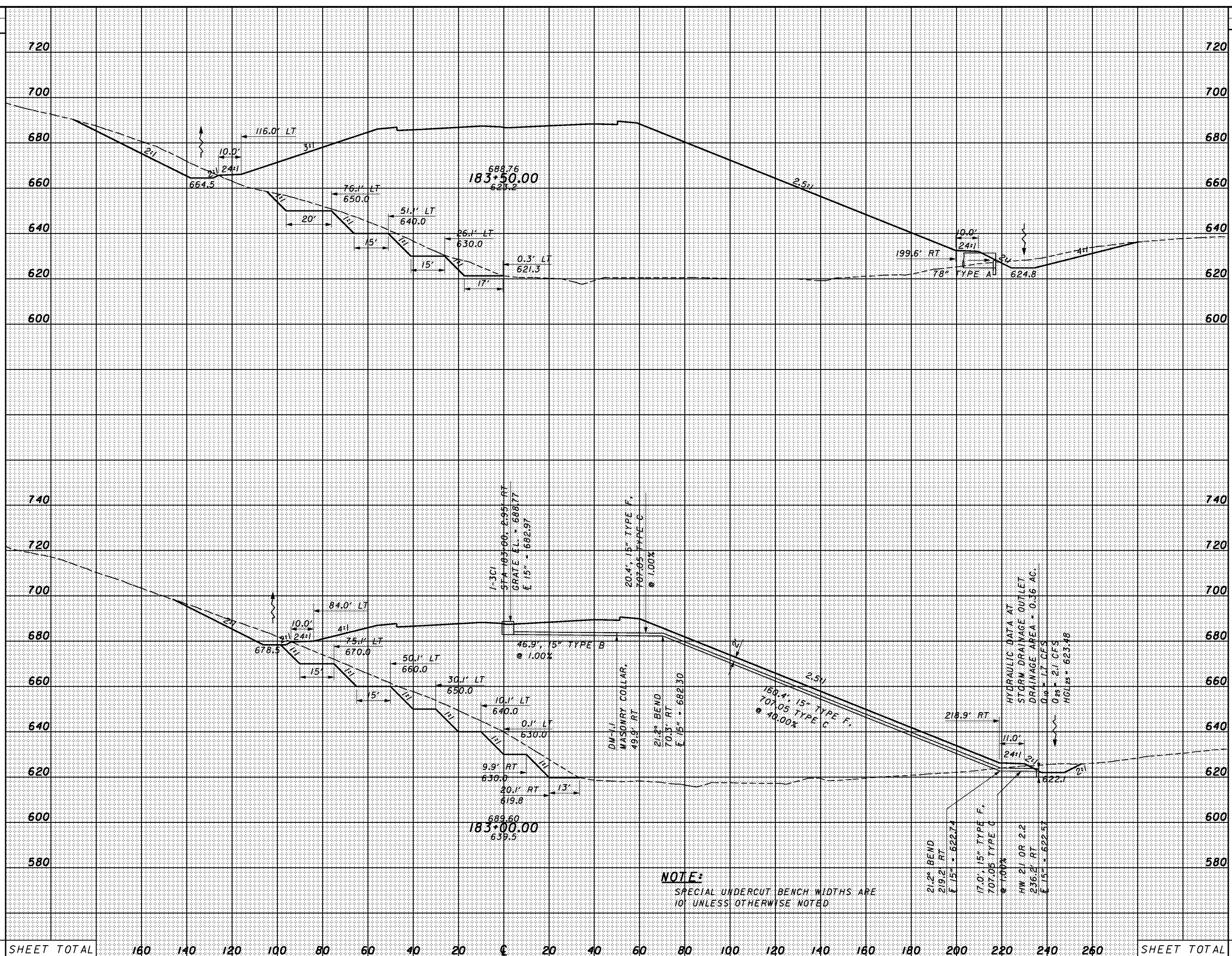
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 183+00.00 TO STA. 183+50.00

SCI-823-0.00



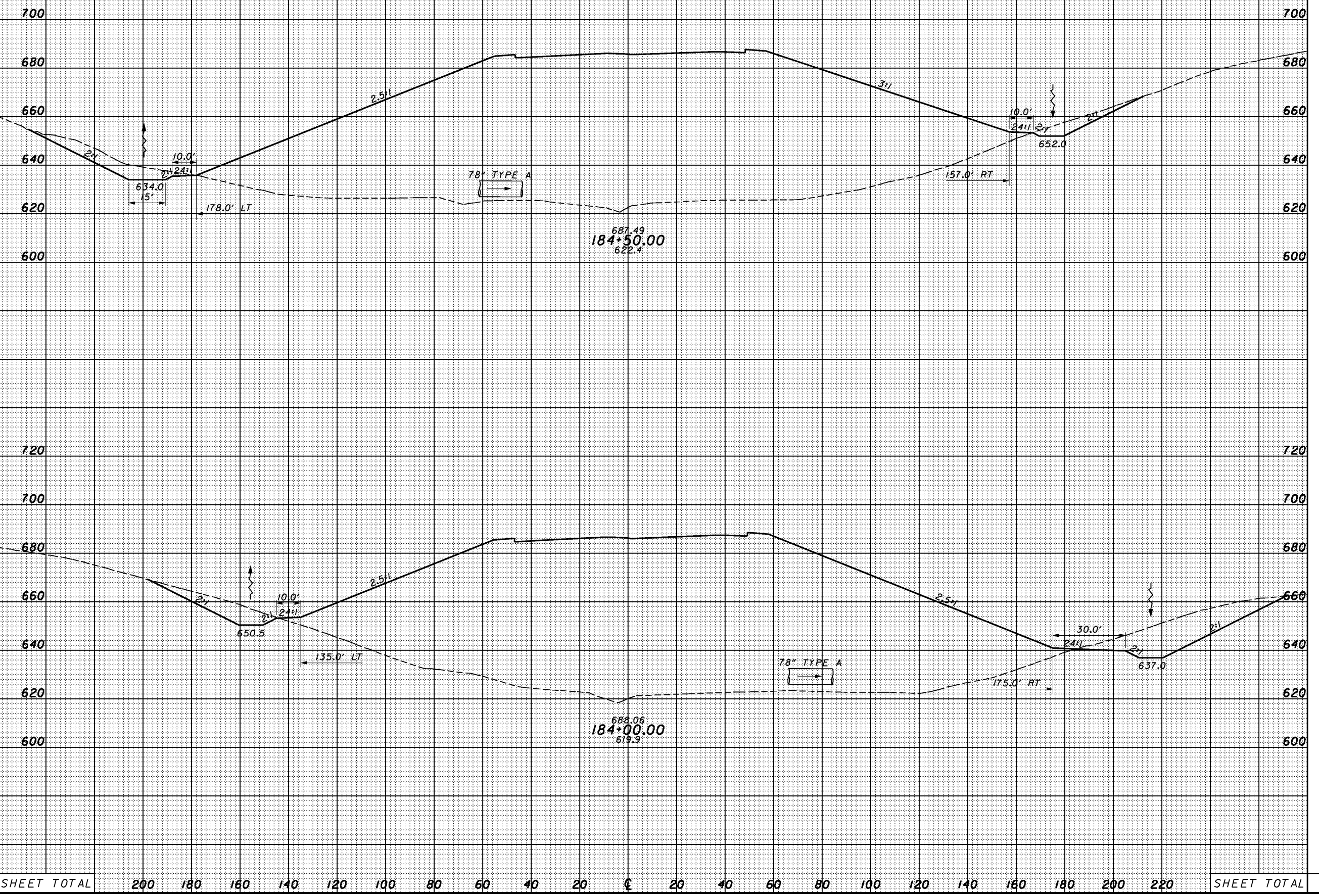
SHEET TOTAL	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	240	260	SHEET TOTAL
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SEEDING	
END WIDTH	SO. YDS.

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. 184+00.00 TO STA. 184+50.00

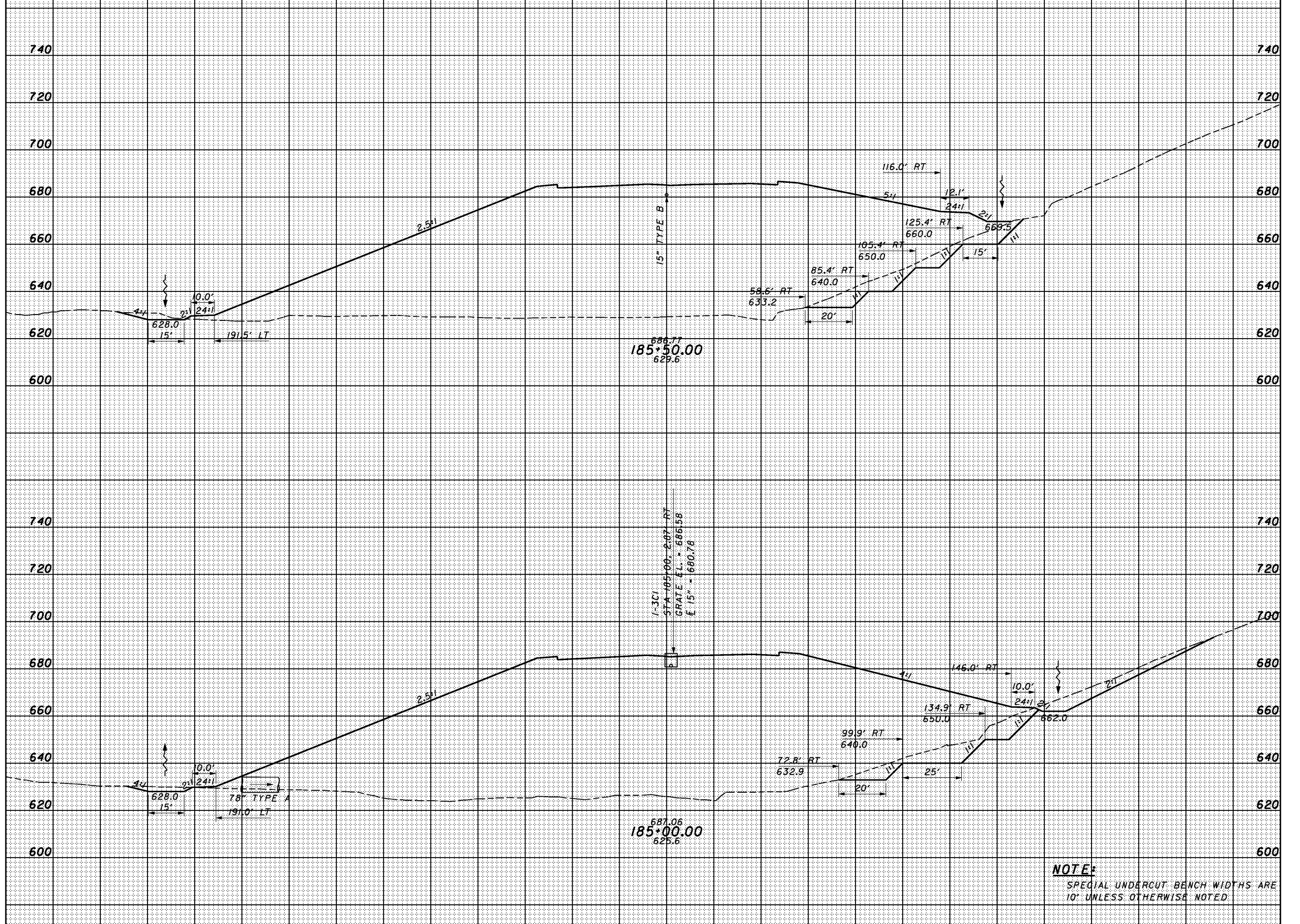
SCI-823-0.00



SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

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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

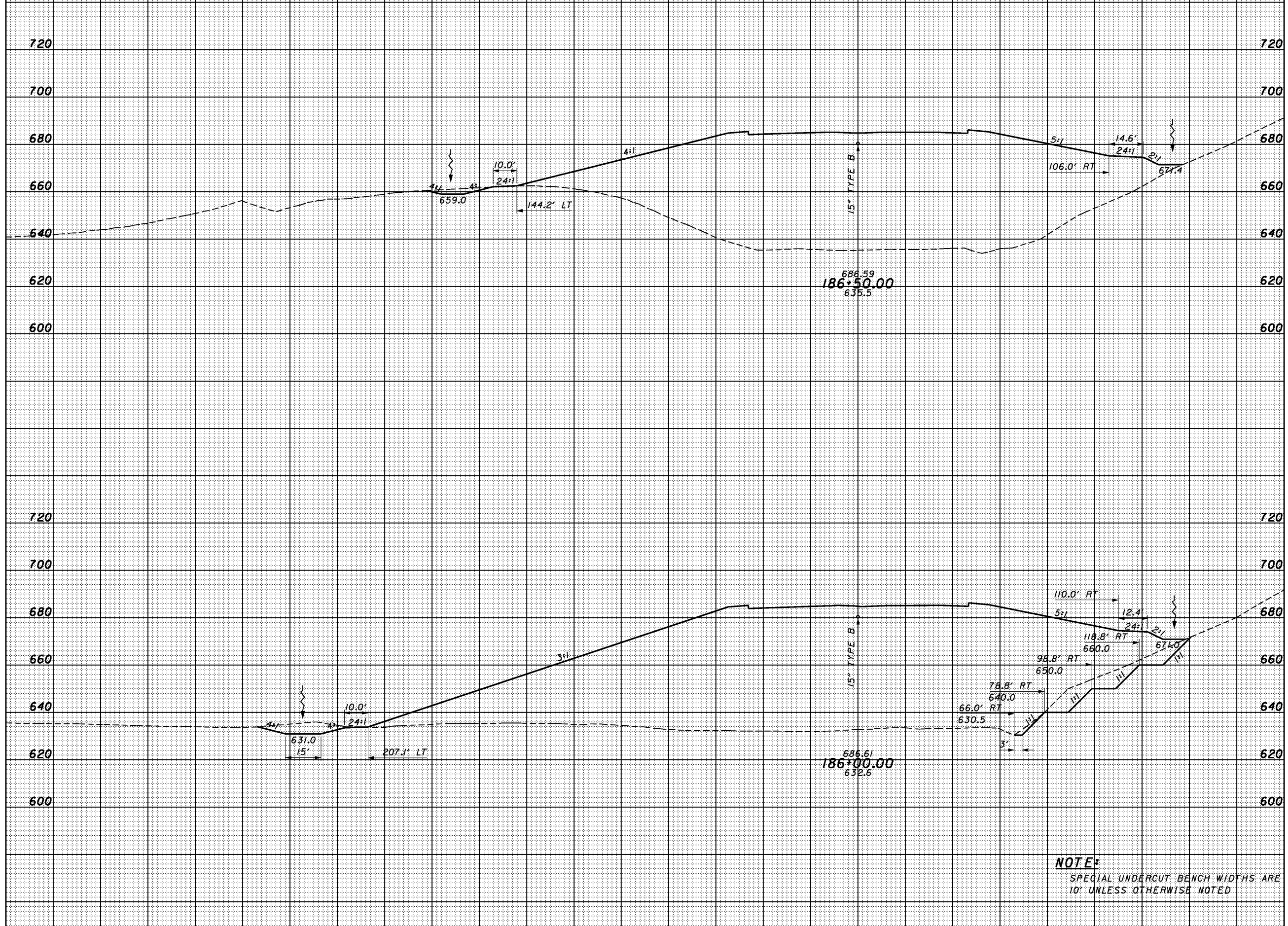
**NOTE:**  
SPECIAL UNDERCUT BENCH WIDTHS ARE 10' UNLESS OTHERWISE NOTED

SR823 - STA. 185+00.00 TO STA. 185+50.00

SCI-823-0.00

SEEDING  
 END WIDTH SO. YDS.  
 8/5/09 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_f.dgn

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



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

STATION	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	SHEET TOTAL
CUT																							
FILL																							

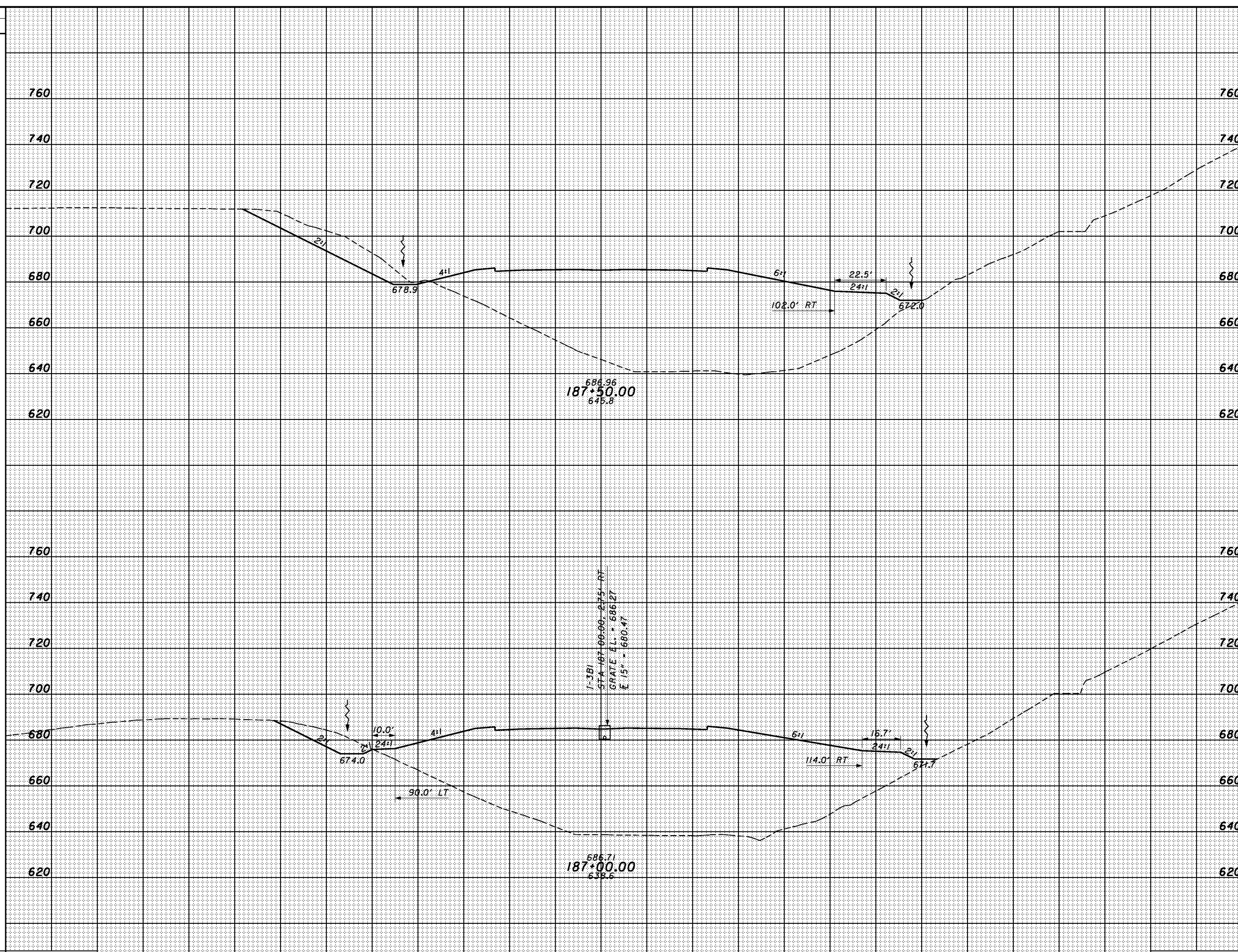
CROSS SECTIONS  
 SR823 - STA. 186+00.00 TO STA. 186+50.00

SCI-823-0.00

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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  
SR823 - STA. 187+00.00 TO STA. 187+50.00

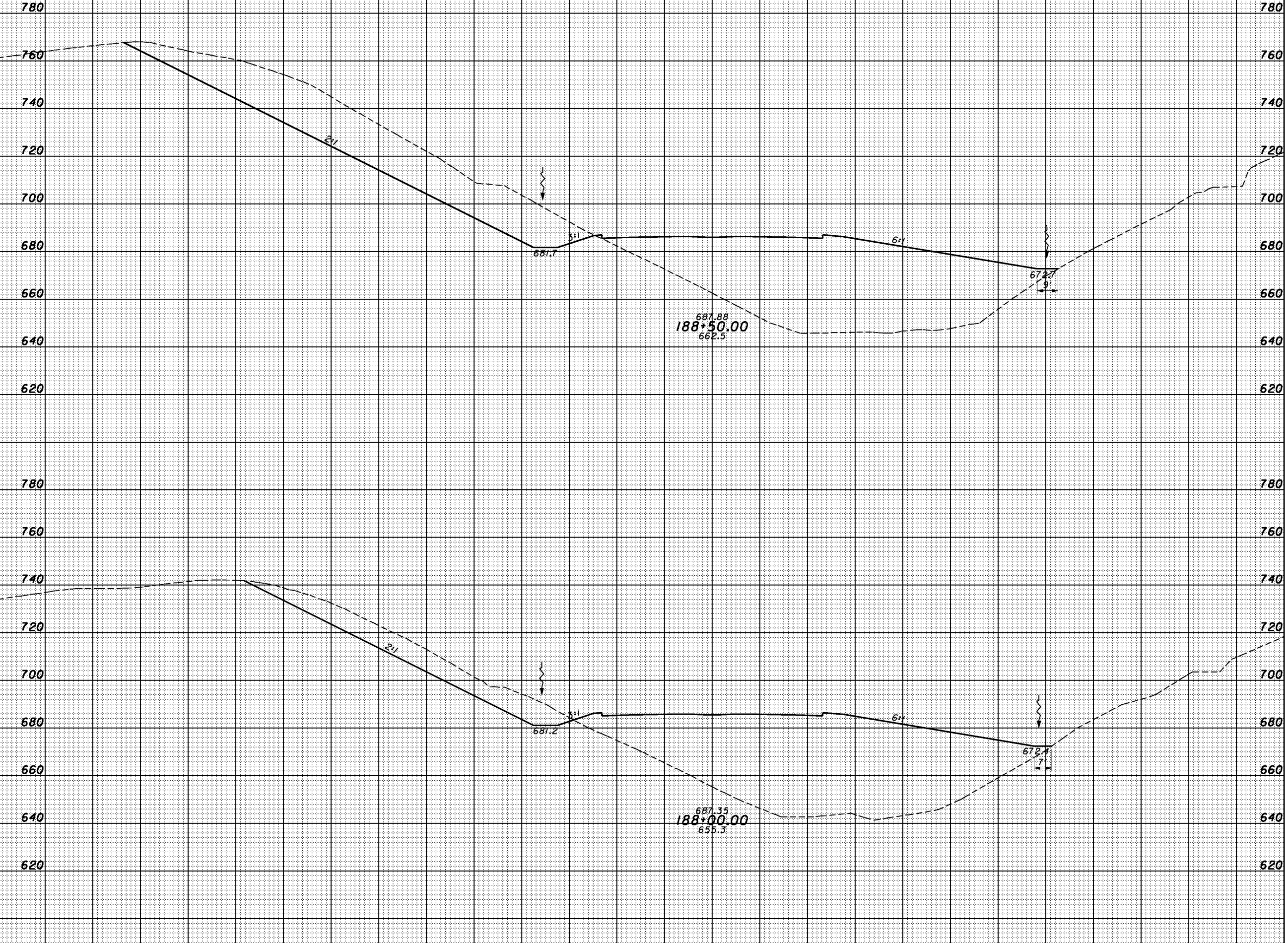
SCI-823-0.00



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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	240	220	160	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. 188+00.00 TO STA. 188+50.00

SCI-823-0.00



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SEEDING	
END WIDTH	SO. YDS.

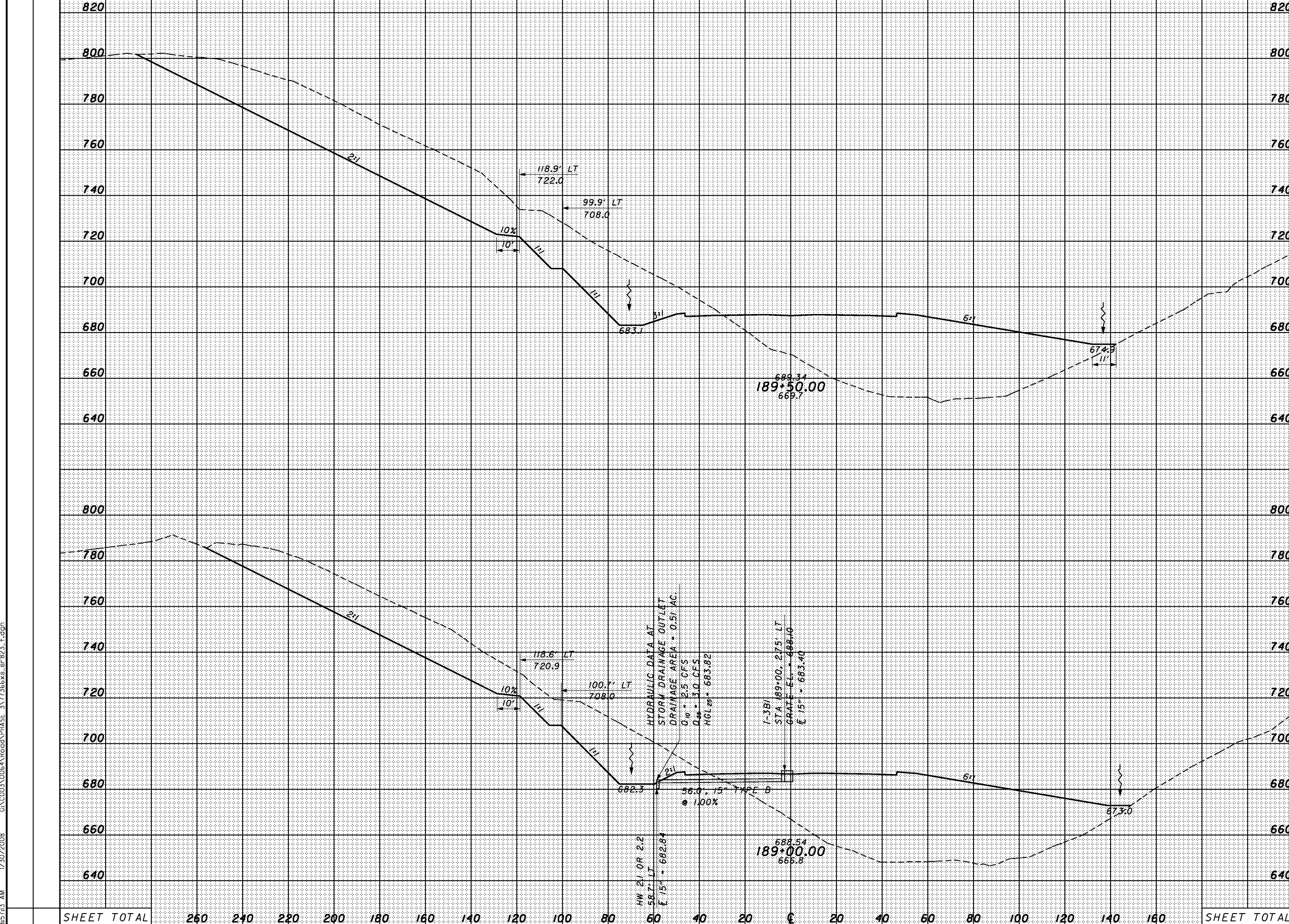
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 189+00.00 TO STA. 189+50.00

SCI-823-0.00

295



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

SEEDING  
 END SO. YDS.  
 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

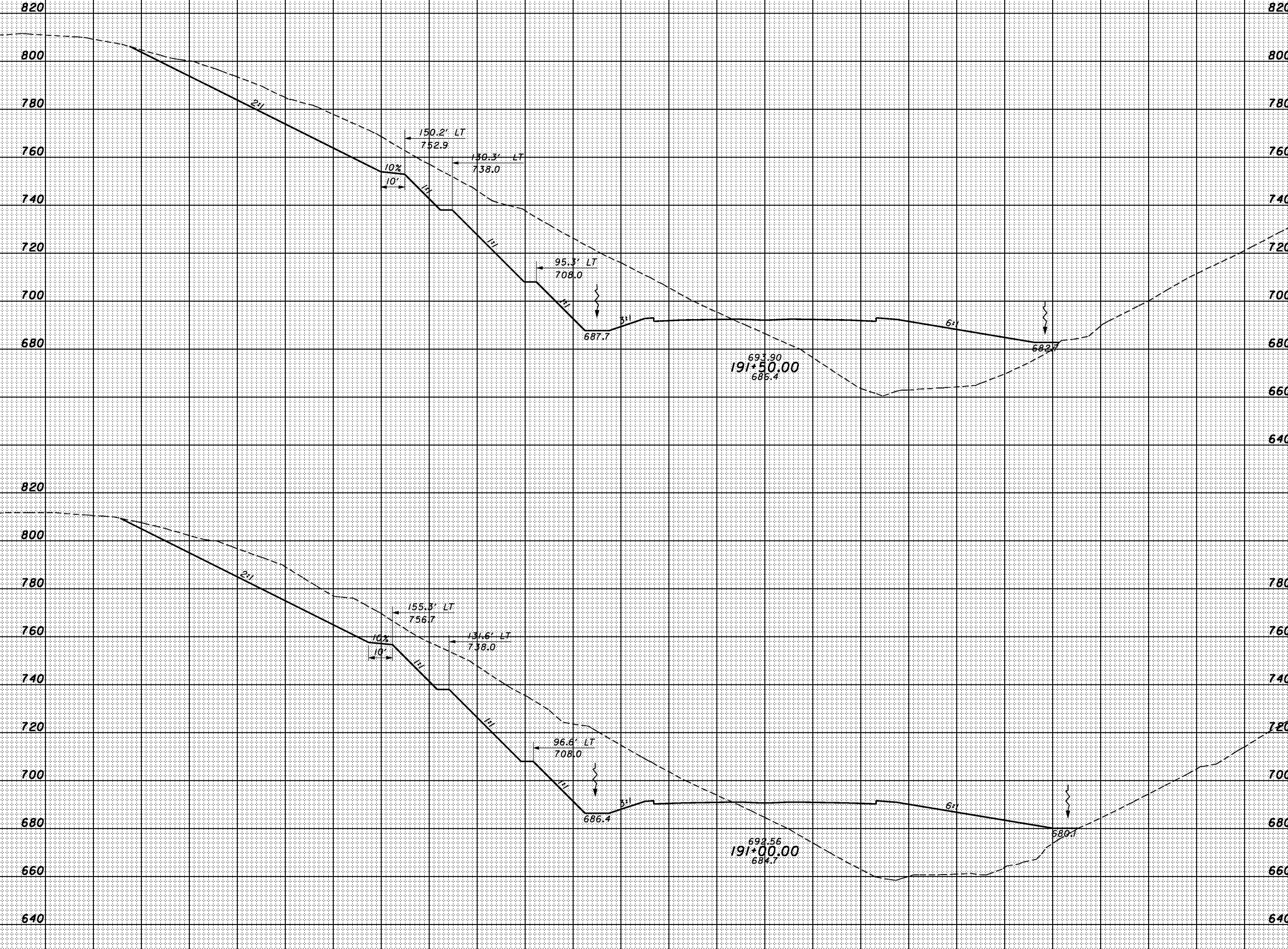
CROSS SECTIONS  
 SR823 - STA. 190+00.00 TO STA. 190+50.00  
 SCI-823-0.00

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SEEDING	
END WIDTH	SO. 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. 191+00.00 TO STA. 191+50.00

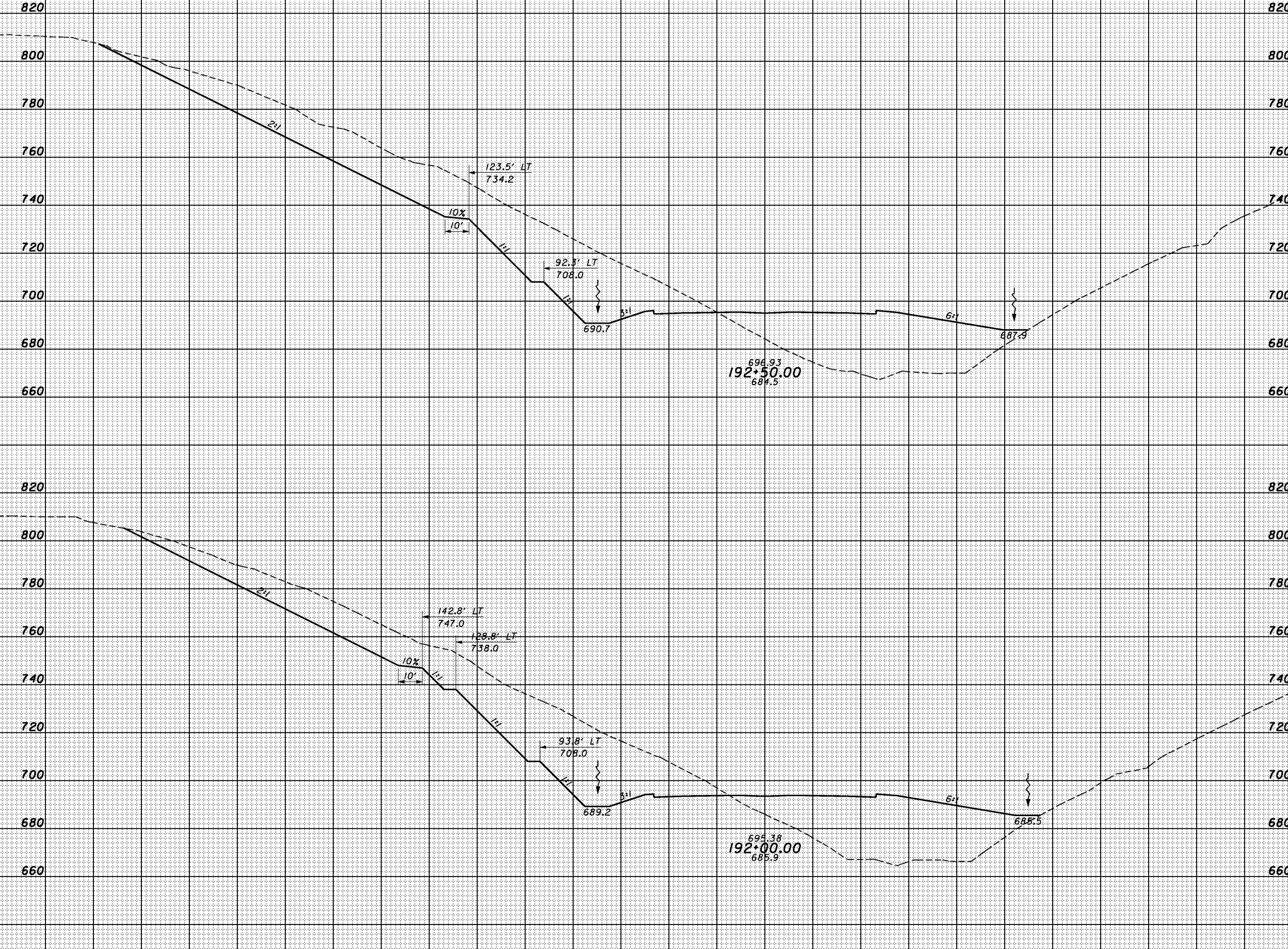
SCI-823-0.00



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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



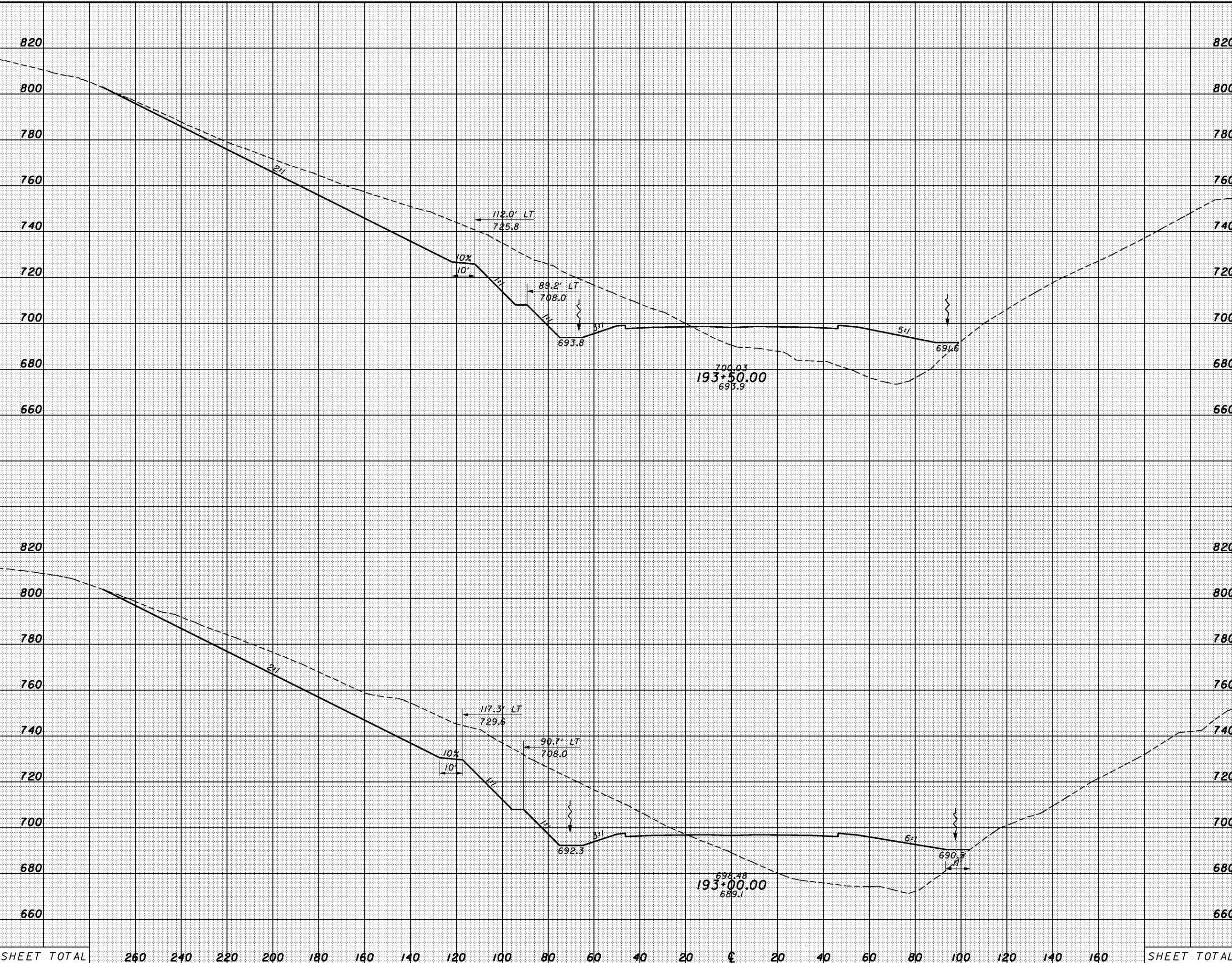
SHEET TOTAL	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 192+00.00 TO STA. 192+50.00

SCI-823-0.00



SEEDING  
 END SO. YDS.  
 WIDTH YDS.  
 8:57:17 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_f.dgn



END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

**CROSS SECTIONS**  
**SR823 - STA. 193+00.00 TO STA. 193+50.00**

**SCI-823-0.00**

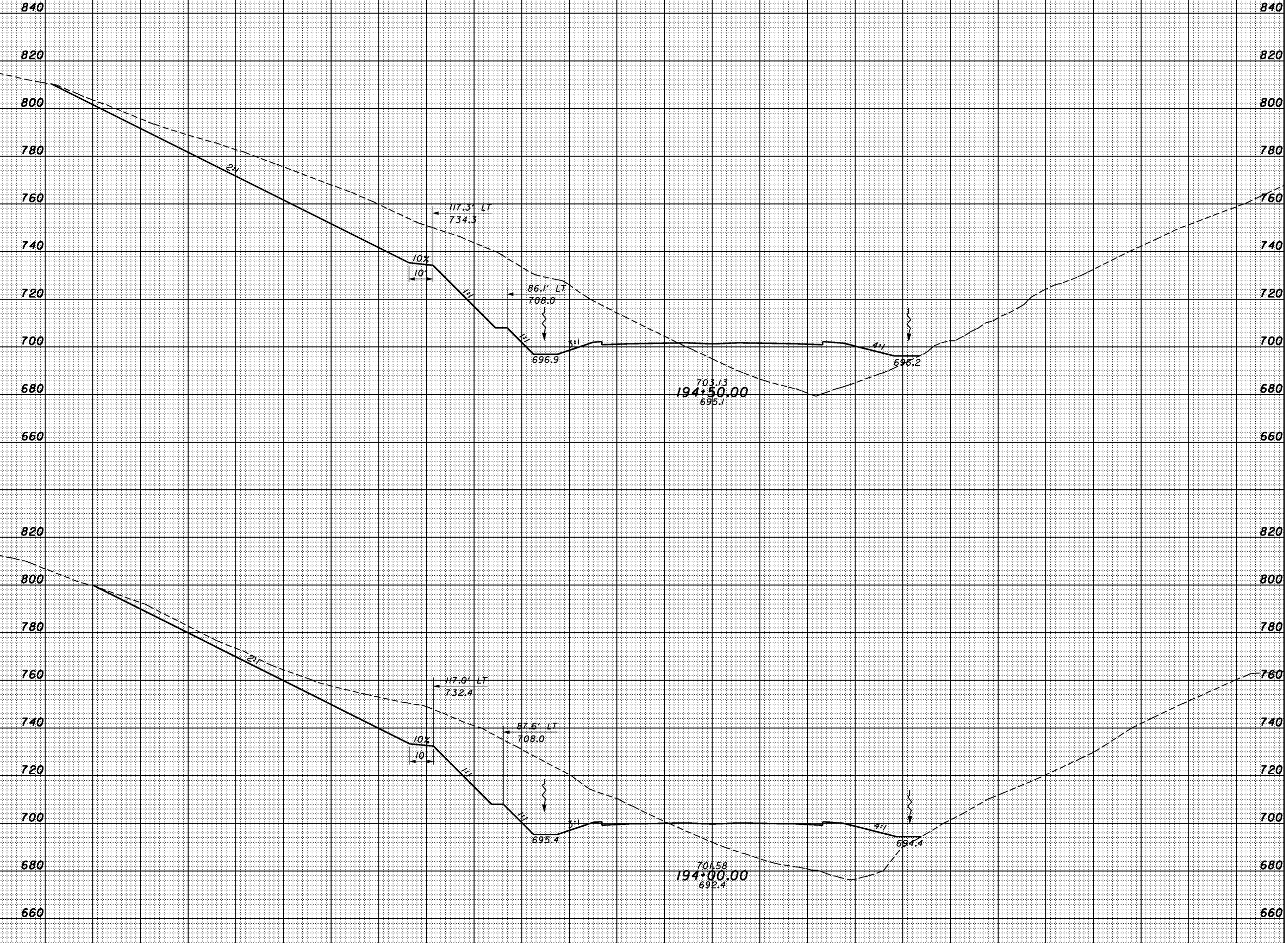
(299)

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 WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



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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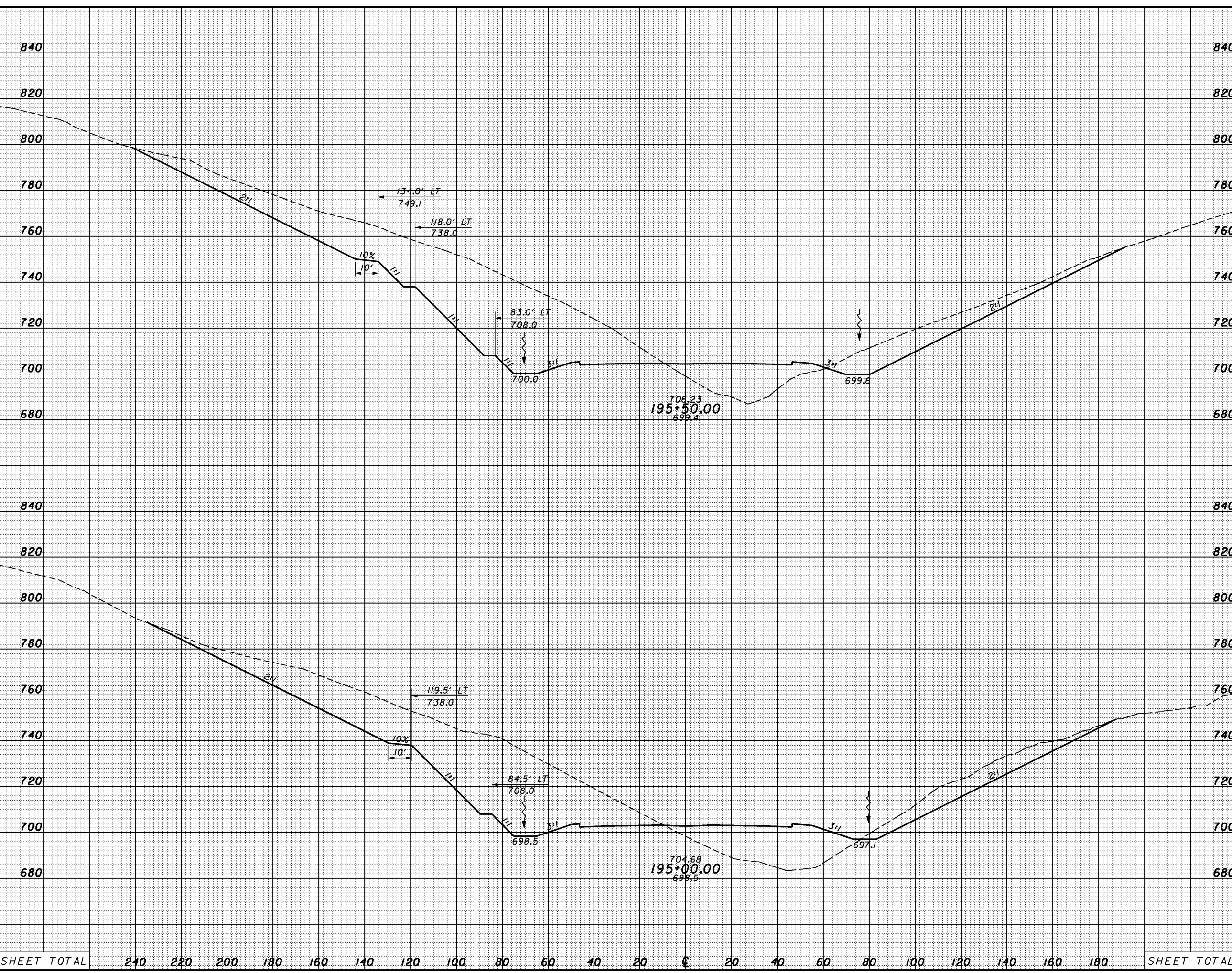
CROSS SECTIONS  
 SR823 - STA. 194+00.00 TO STA. 194+50.00

SCI-823-0.00

8:57:19 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_g.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	240	220	200	180	160	140	120	100	80	60	40	20	CL	20	40	60	80	100	120	140	160	180	SHEET TOTAL
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SR823 - STA. 195+00.00 TO STA. 195+50.00

SCI-823-0.00



8:57:20 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823.dgn

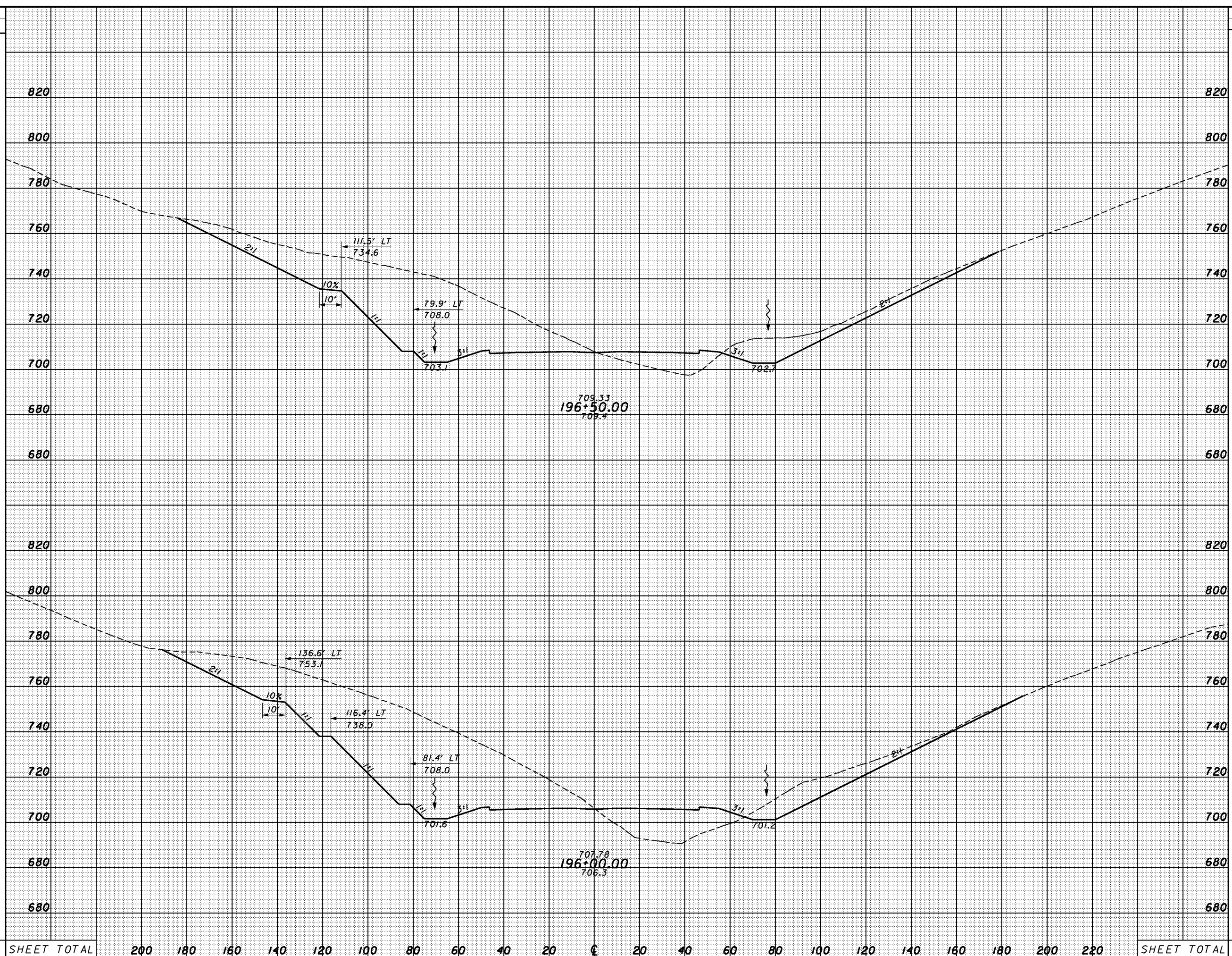
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

CROSS SECTIONS  
SR823 - STA. 196+00.00 TO STA. 196+50.00

SCI-823-0.00

302



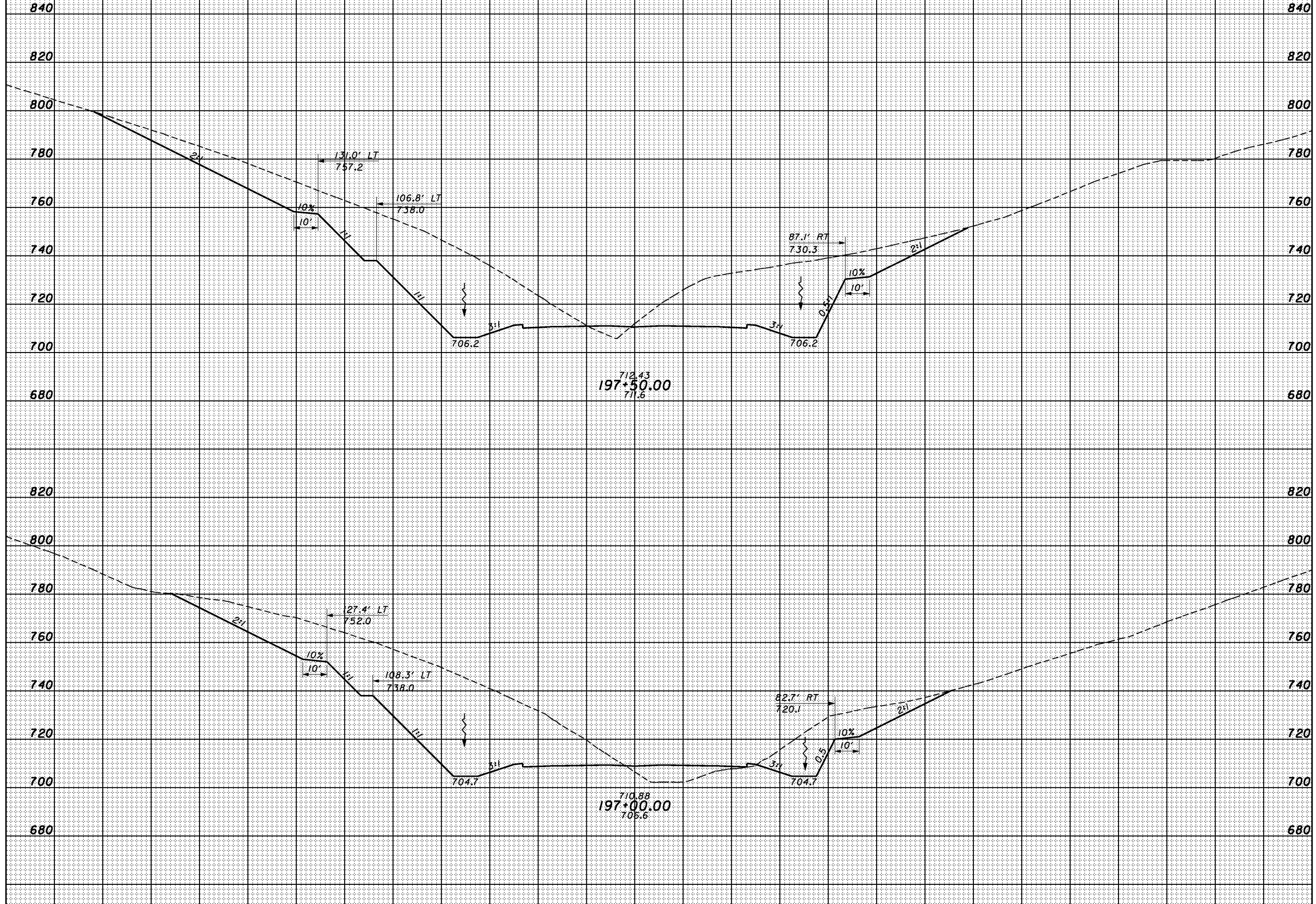
SHEET TOTAL      200    180    160    140    120    100    80    60    40    20    0    20    40    60    80    100    120    140    160    180    200    220      SHEET TOTAL



SEEDING  
END 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

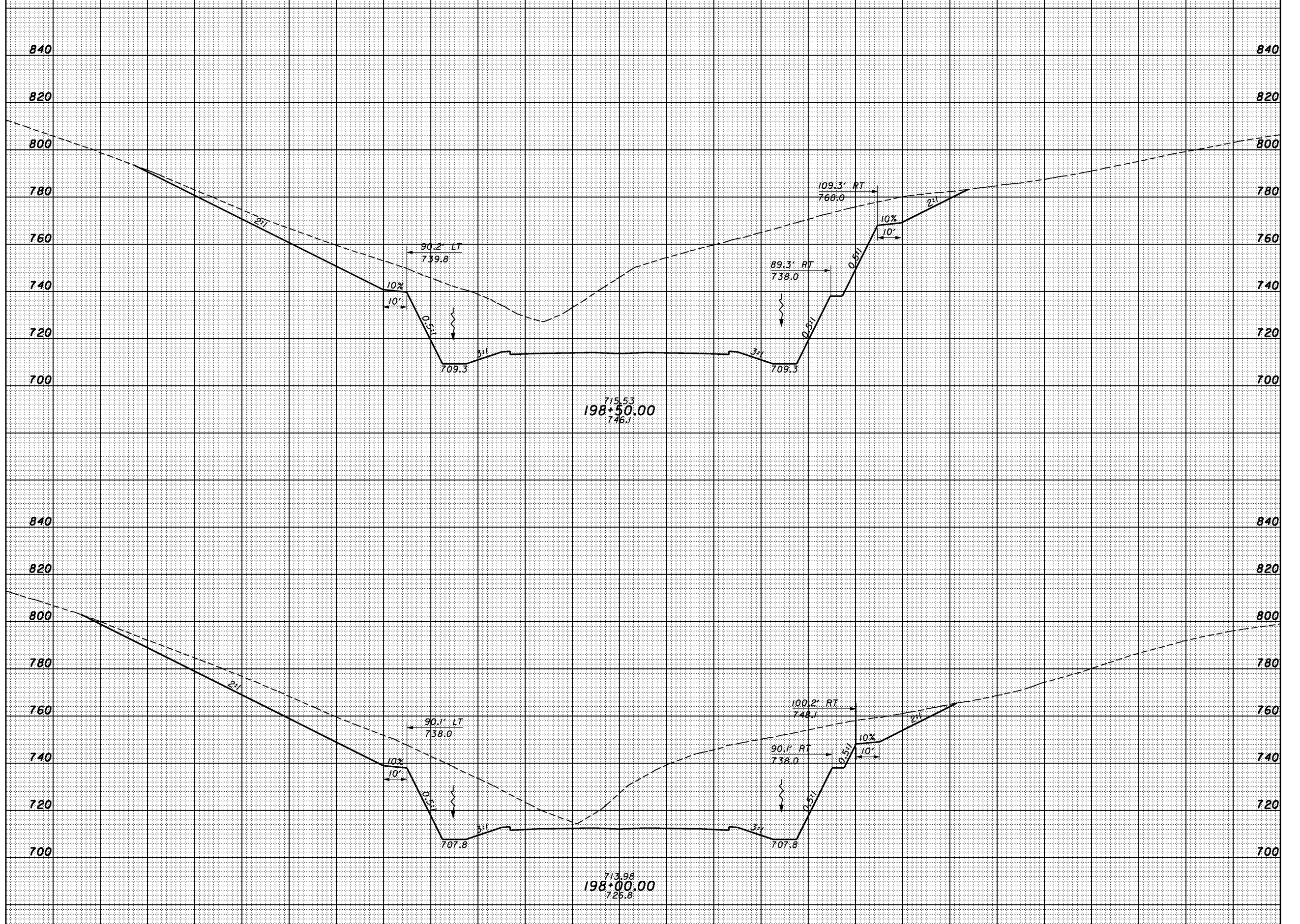
**CROSS SECTIONS**  
**SR823 - STA. 197+00.00 TO STA. 197+50.00**

**SCI-823-0.00**

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. 198+00.00 TO STA. 198+50.00

SCI-823-0.00

304

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SEEDING	
END WIDTH	SO. YDS.

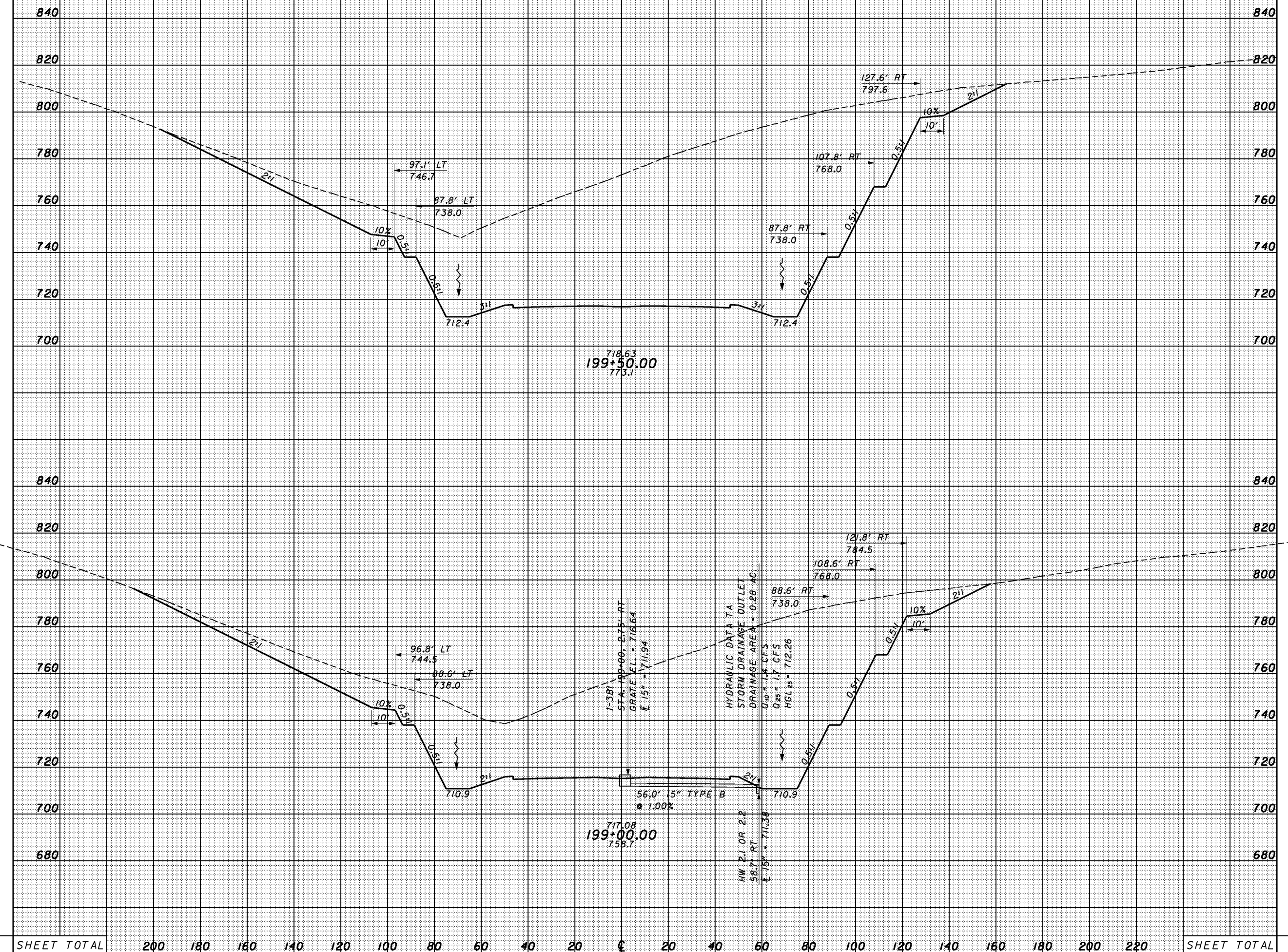
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 199+00.00 TO STA. 199+50.00

SCI-823-0.00

305



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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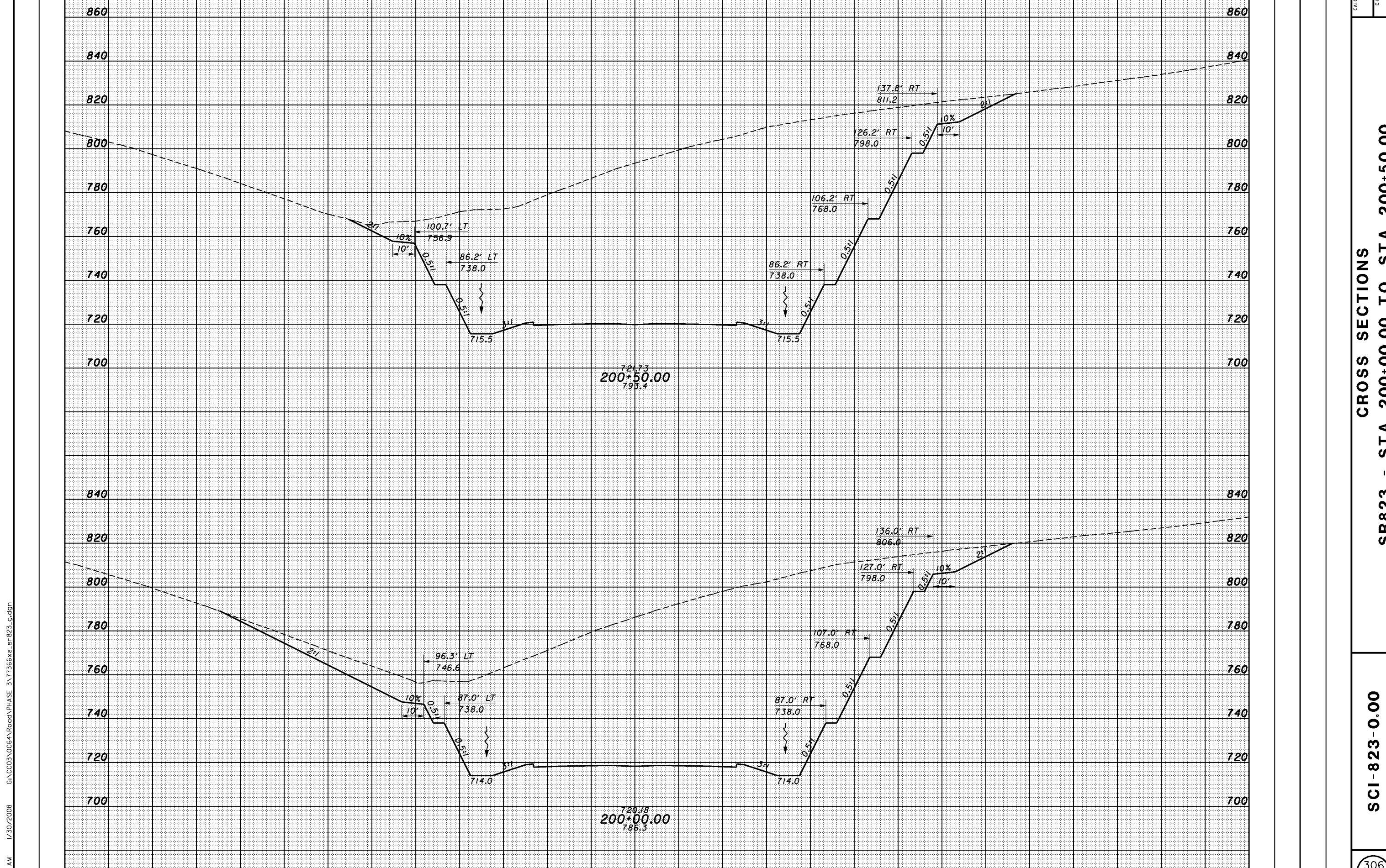


SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

860  
840  
820  
800  
780  
760  
740  
720  
700

860  
840  
820  
800  
780  
760  
740  
720  
700



721.73  
200+50.00  
795.4

720.18  
200+00.00  
786.3

8/5/24 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823.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. 200+00.00 TO STA. 200+50.00

SCI-823-0.00

306



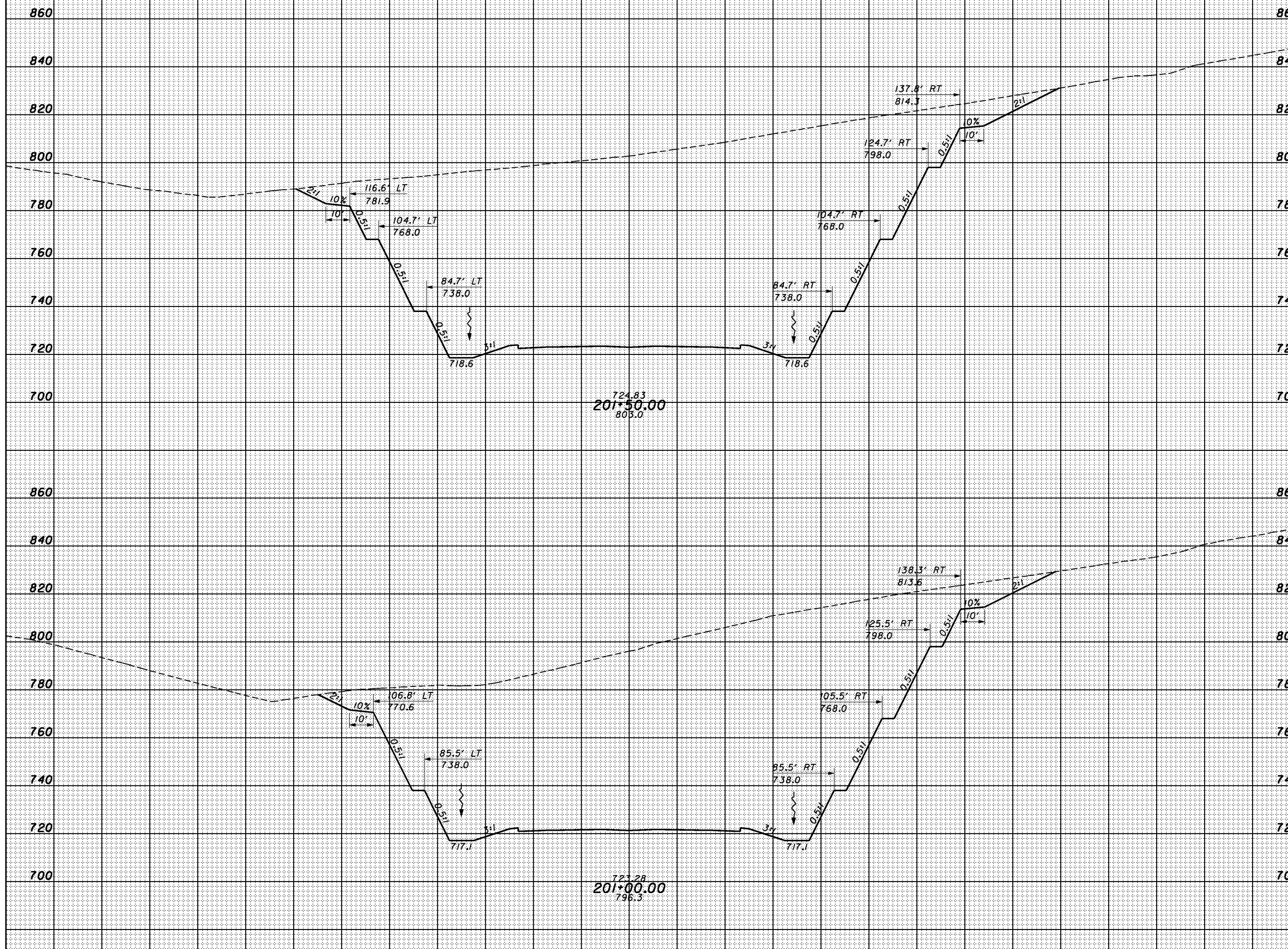
SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

860  
840  
820  
800  
780  
760  
740  
720  
700

860  
840  
820  
800  
780  
760  
740  
720  
700

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724.83  
201+50.00  
805.0

723.28  
201+00.00  
796.3

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

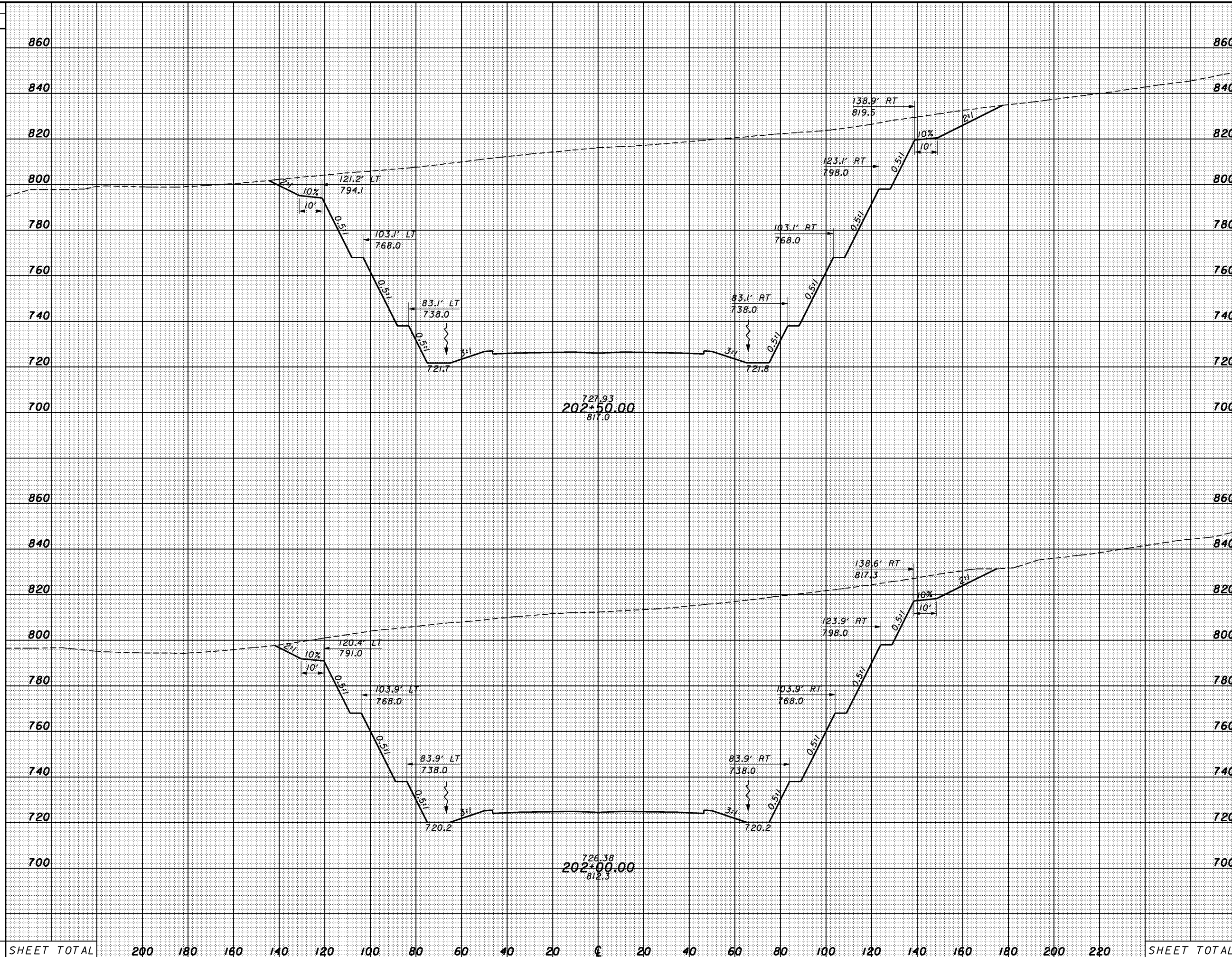
CROSS SECTIONS  
SR823 - STA. 201+00.00 TO STA. 201+50.00

SCI-823-0.00

307

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. 202+00.00 TO STA. 202+50.00

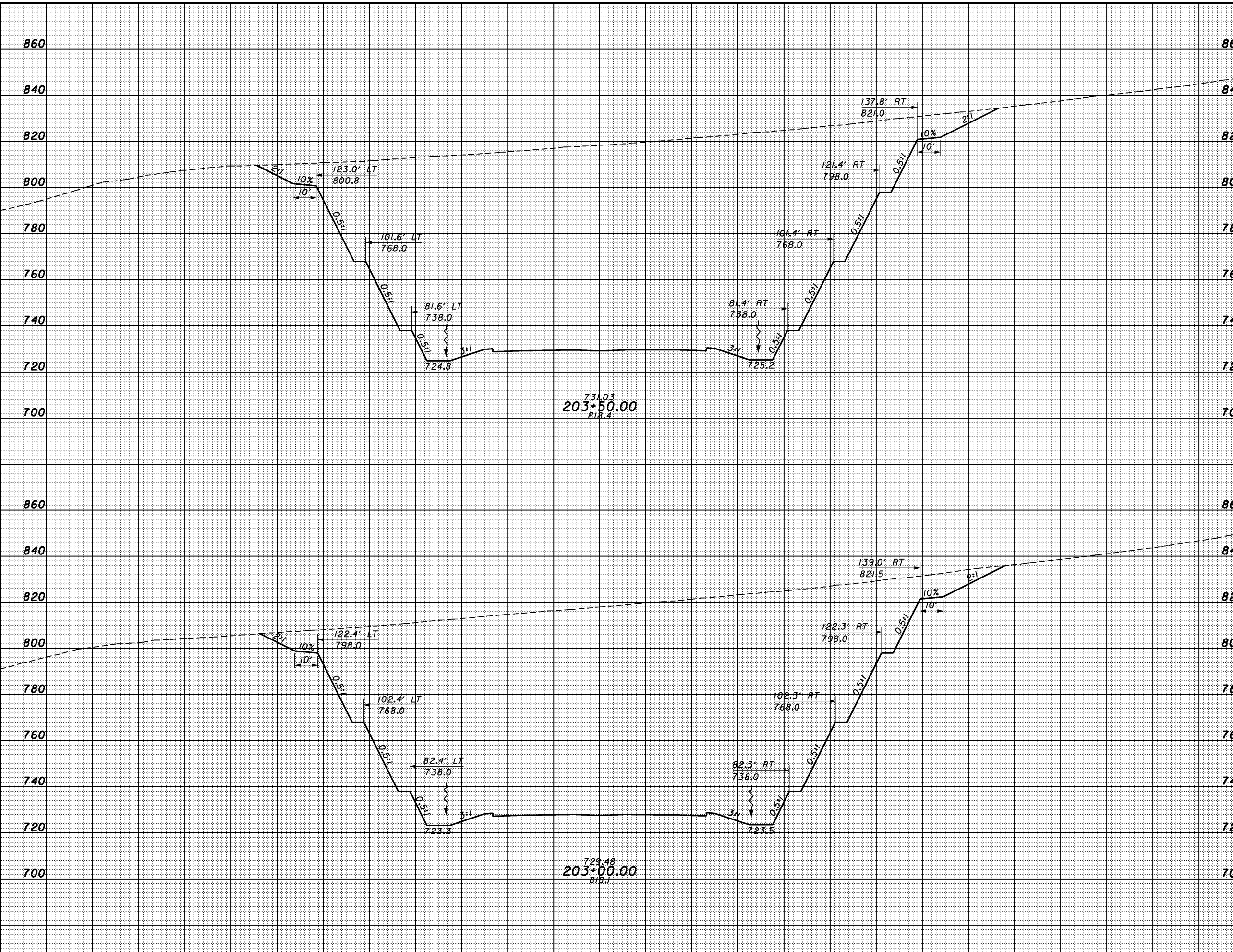
SCI-823-0.00

SEEDING

END SO. WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL

8:57:27 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_d.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. 203+00.00 TO STA. 203+50.00

SCI-823-0.00



8/5/28 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_g.dgn

SEEDING	
END WIDTH	SO. YDS.

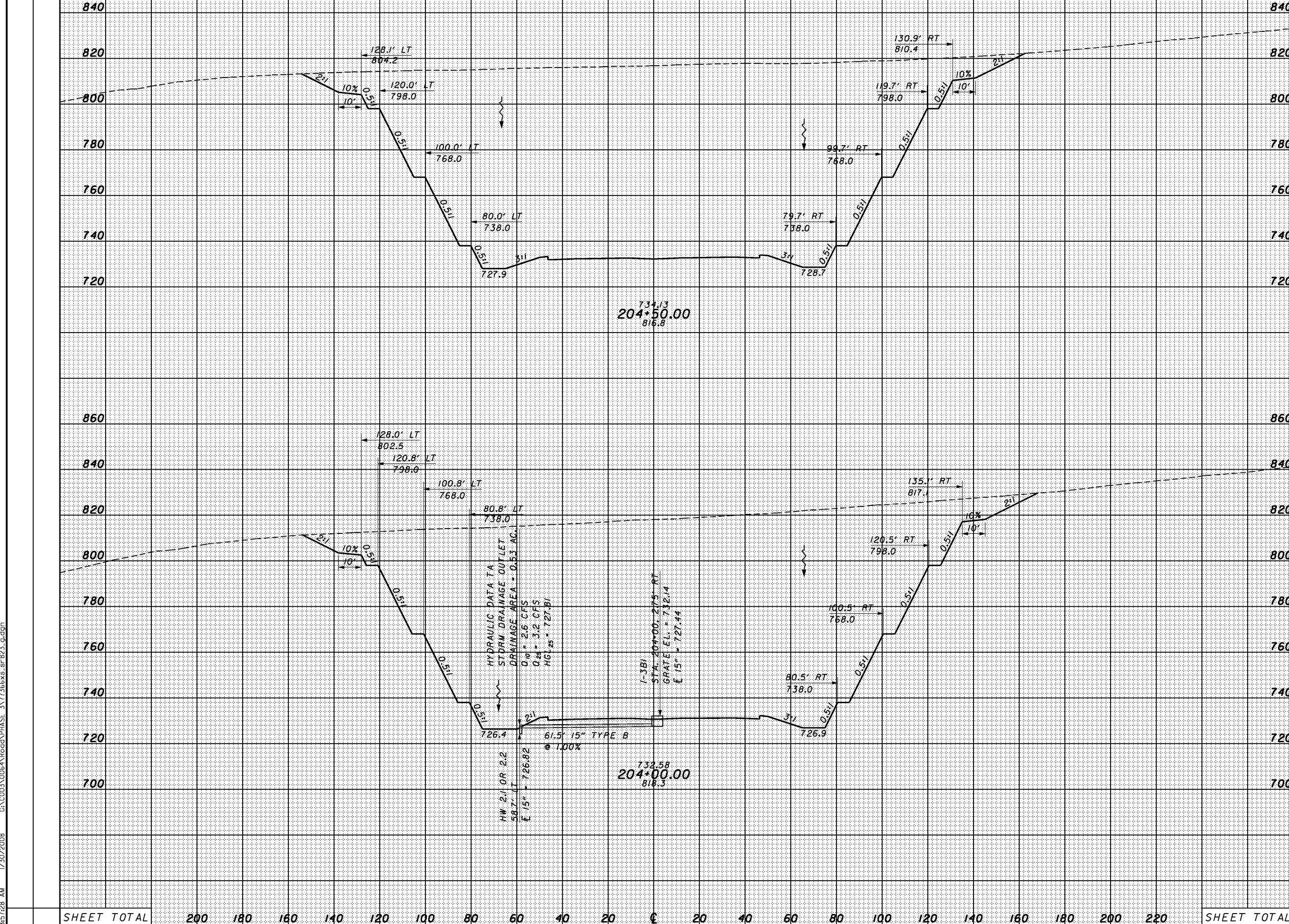
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 204+00.00 TO STA. 204+50.00

SCI-823-0.00

310



734.13  
204+50.00  
816.8

732.58  
204+00.00  
818.3

HYDRAULIC DATA  
STORM DRAINAGE OUTLET  
DRAINAGE AREA = 0.53 AC  
0.10' = 2.6 CFS  
0.24' = 3.2 CFS  
HGL<sub>24"</sub> = 727.81

HW 21" OR 2.2  
58.7' LT  
E 15% = 726.82

(1-3B)  
STA. 204+00.215 RT  
GRATE EL. = 732.14  
E 15% = 727.44

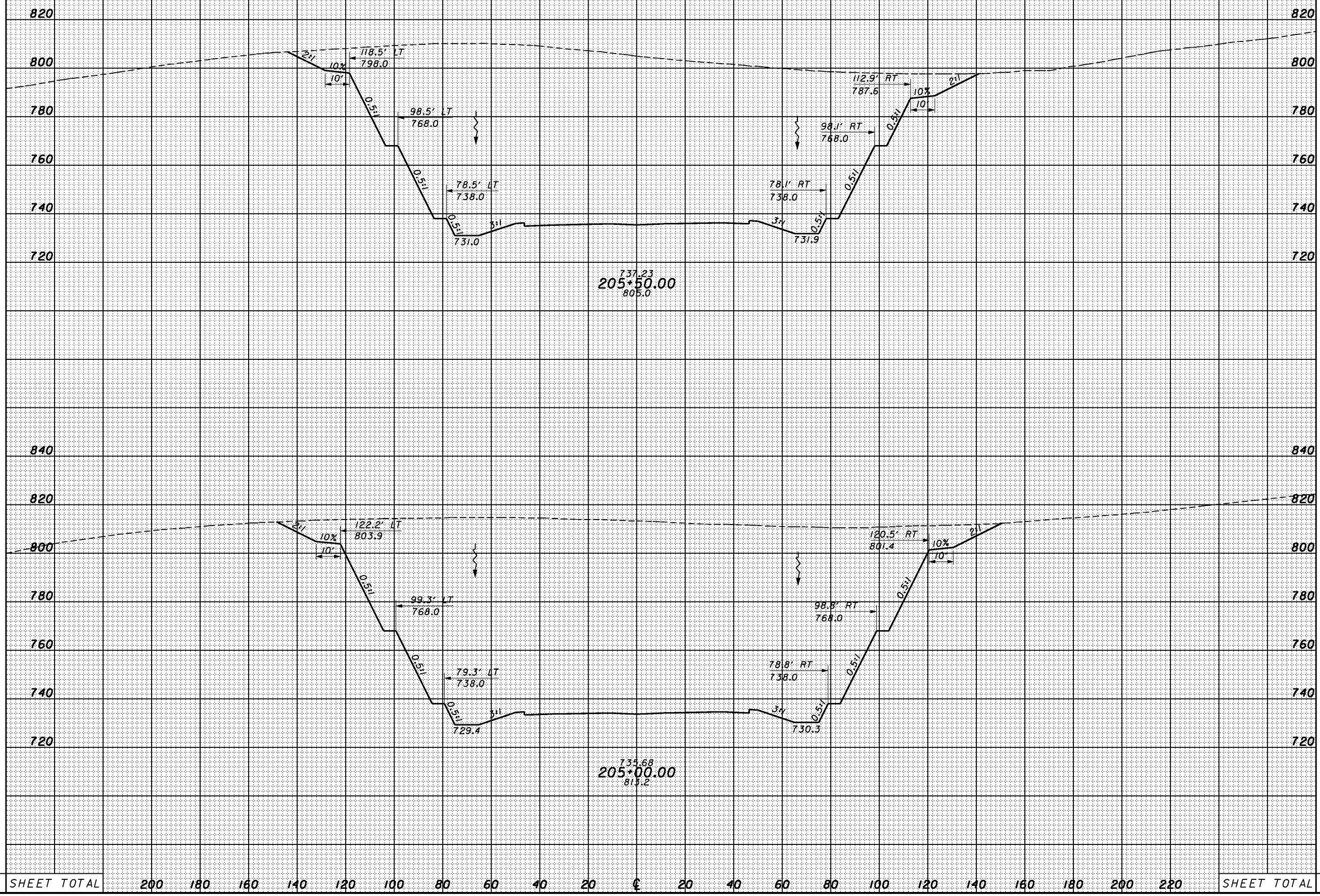
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8/5/29 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_g.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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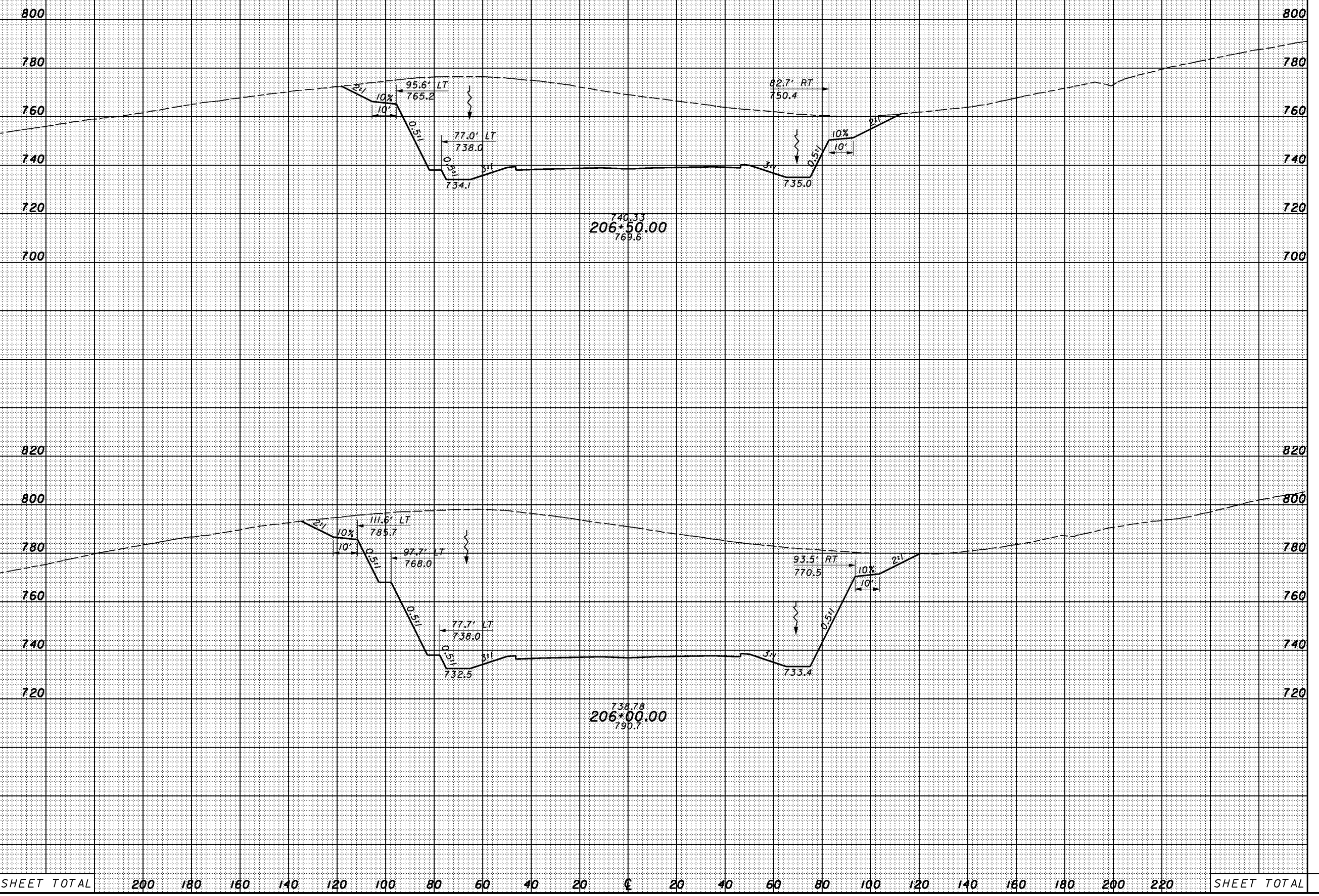
CROSS SECTIONS  
SR823 - STA. 205+00.00 TO STA. 205+50.00

SCI-823-0.00

8:57:30 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_g.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



740.33  
206+50.00  
769.6

738.78  
206+00.00  
790.7

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
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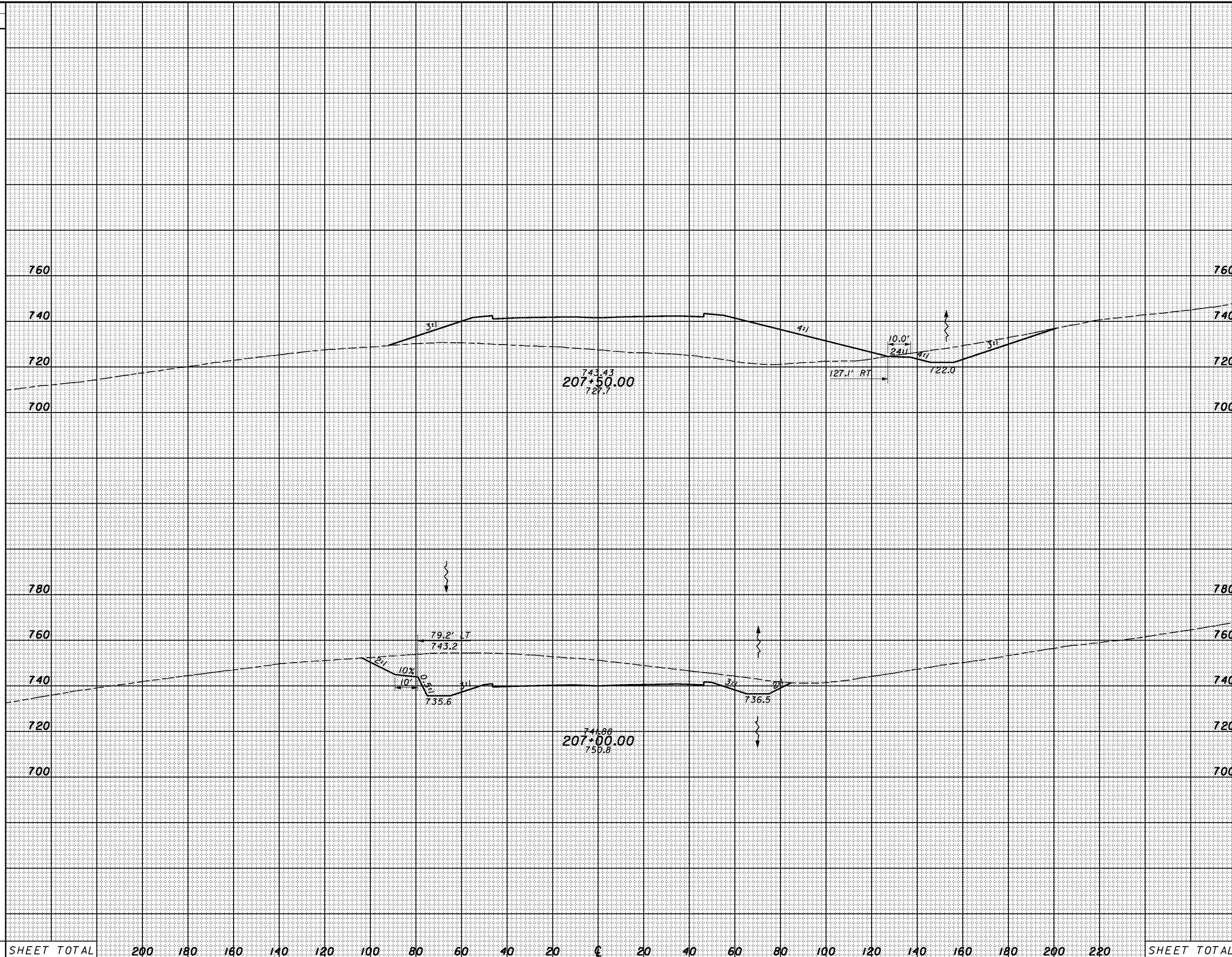
CROSS SECTIONS  
SR823 - STA. 206+00.00 TO STA. 206+50.00

SCI-823-0.00

8:57:32 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823.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. 207+00.00 TO STA. 207+50.00

SCI-823-0.00



8:57:32 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_g.dgn

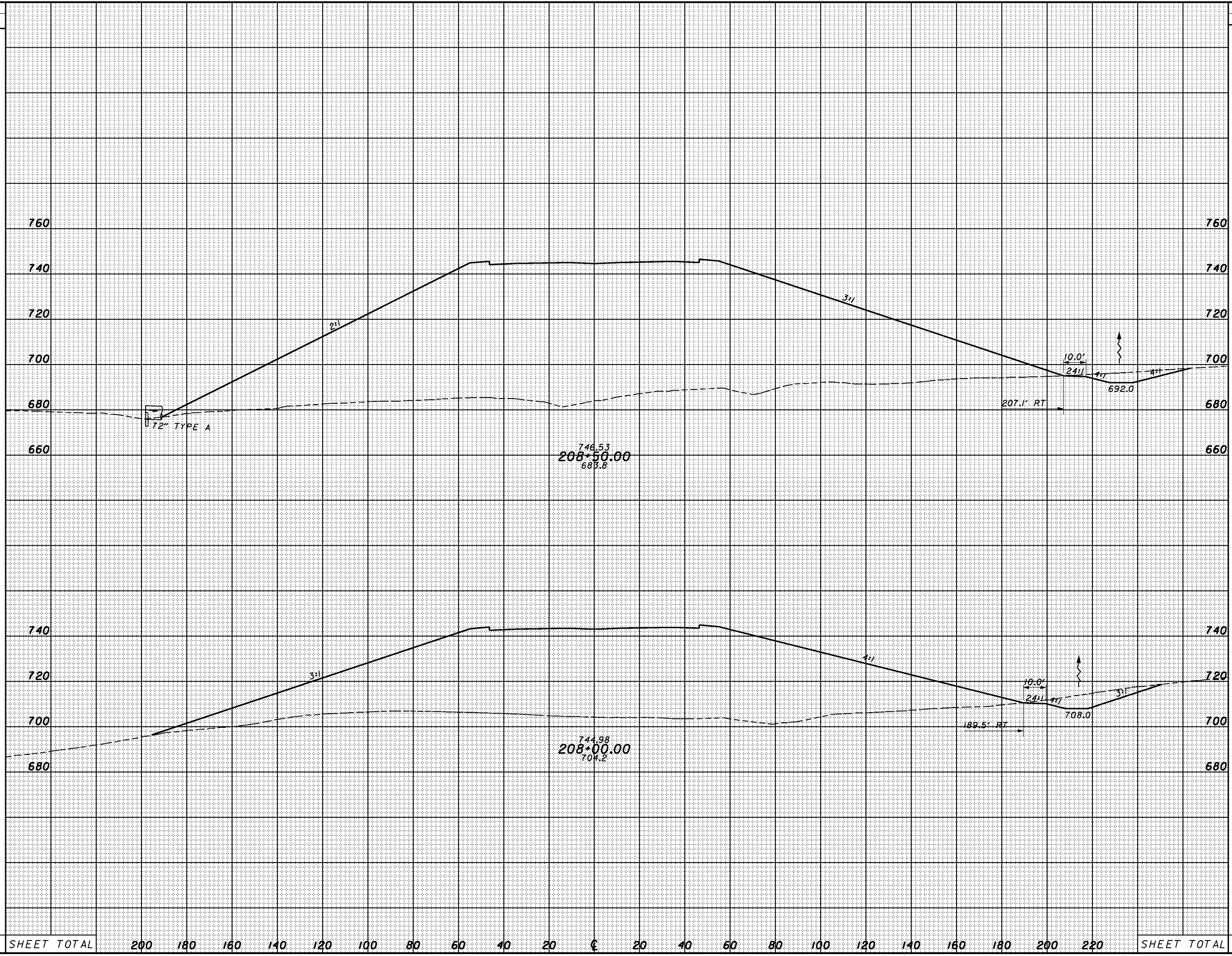
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

CROSS SECTIONS  
SR823 - STA. 208+00.00 TO STA. 208+50.00

SCI-823-0.00

314

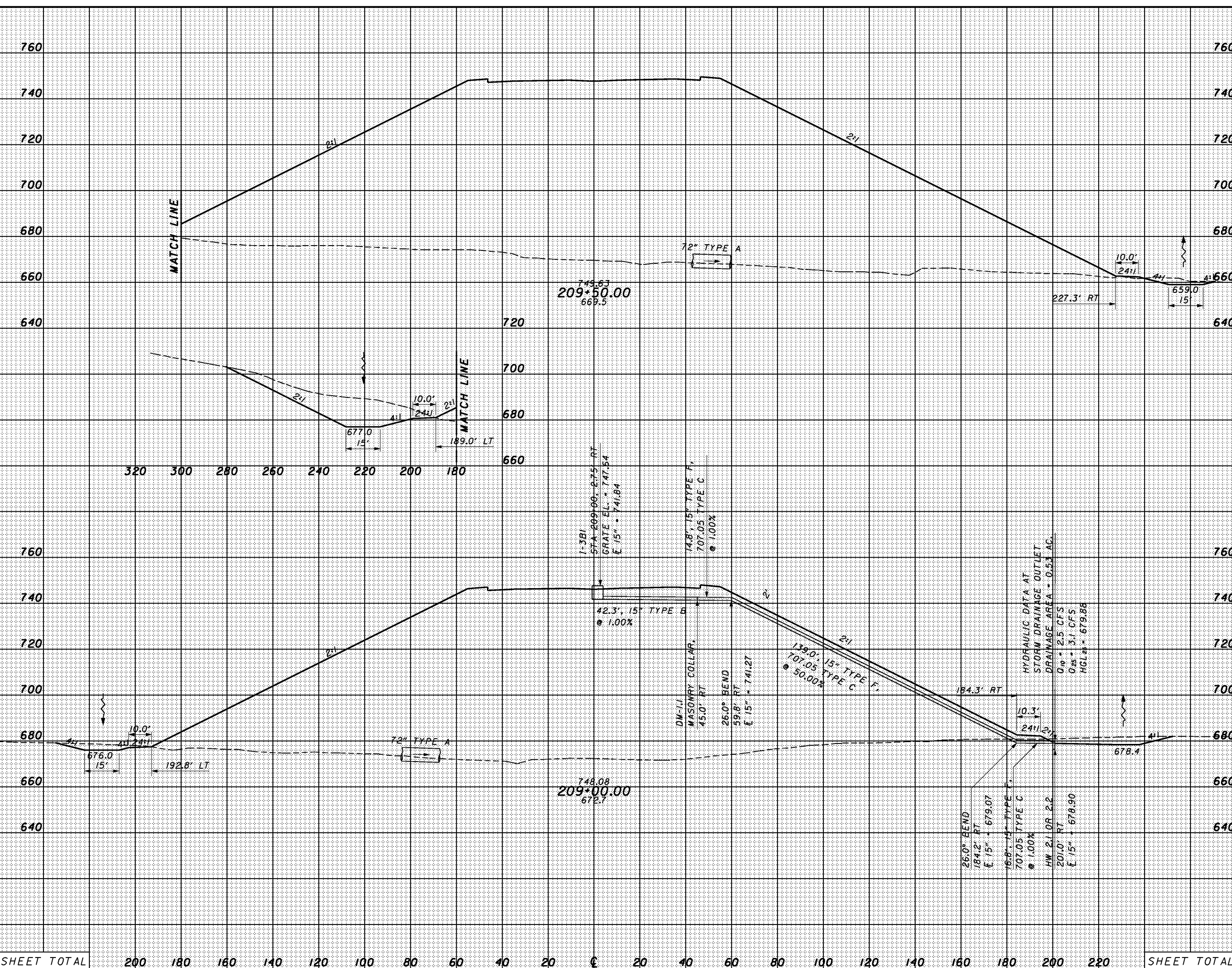


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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8:57:33 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\17136688s-sr-823\_g.dgn

SEEDING	
END WIDTH	SO. YDS.



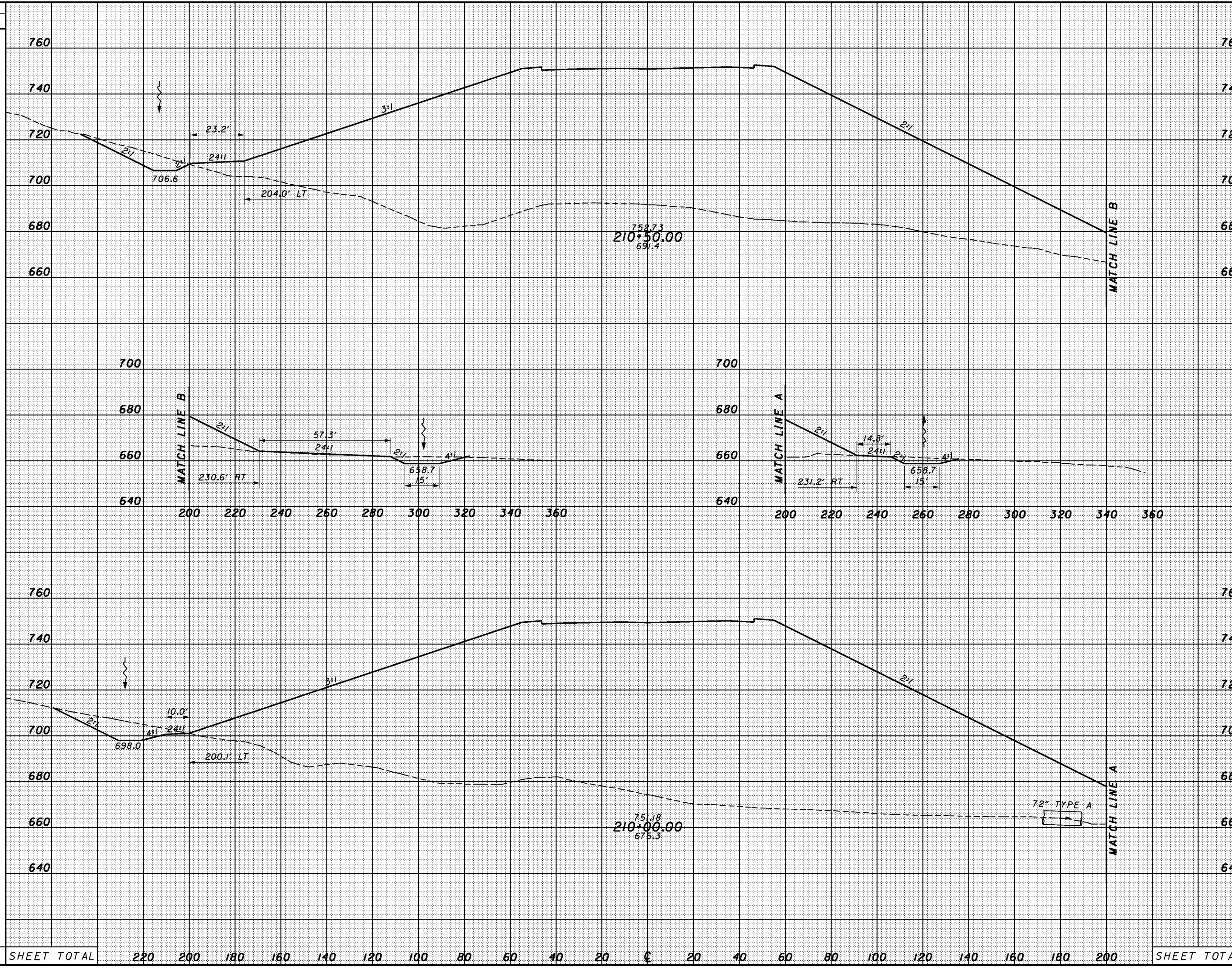
END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

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. 209+00.00 TO STA. 209+50.00

SCI-823-0.00

SEEDING  
 END WIDTH SO. YDS.  
 8:57:35 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_d.dgn



END	AREA		VOLUME		CALCULATED	CHECKED
	CUT	FILL	CUT	FILL		
760						
740						
720						
700						
680						
660						
640						
<b>CROSS SECTIONS</b>						
<b>SR823 - STA. 210+00.00 TO STA. 210+50.00</b>						
<b>SCI-823-0.00</b>						
316						
SHEET TOTAL		220	200	180	160	140
SHEET TOTAL		200	180	160	140	120
SHEET TOTAL		180	160	140	120	100
SHEET TOTAL		160	140	120	100	80
SHEET TOTAL		140	120	100	80	60
SHEET TOTAL		120	100	80	60	40
SHEET TOTAL		100	80	60	40	20
SHEET TOTAL		80	60	40	20	0
SHEET TOTAL		60	40	20	0	0
SHEET TOTAL		40	20	0	0	0
SHEET TOTAL		20	0	0	0	0
SHEET TOTAL		0	0	0	0	0
SHEET TOTAL		20	40	60	80	100
SHEET TOTAL		40	60	80	100	120
SHEET TOTAL		60	80	100	120	140
SHEET TOTAL		80	100	120	140	160
SHEET TOTAL		100	120	140	160	180
SHEET TOTAL		120	140	160	180	200
SHEET TOTAL		200				

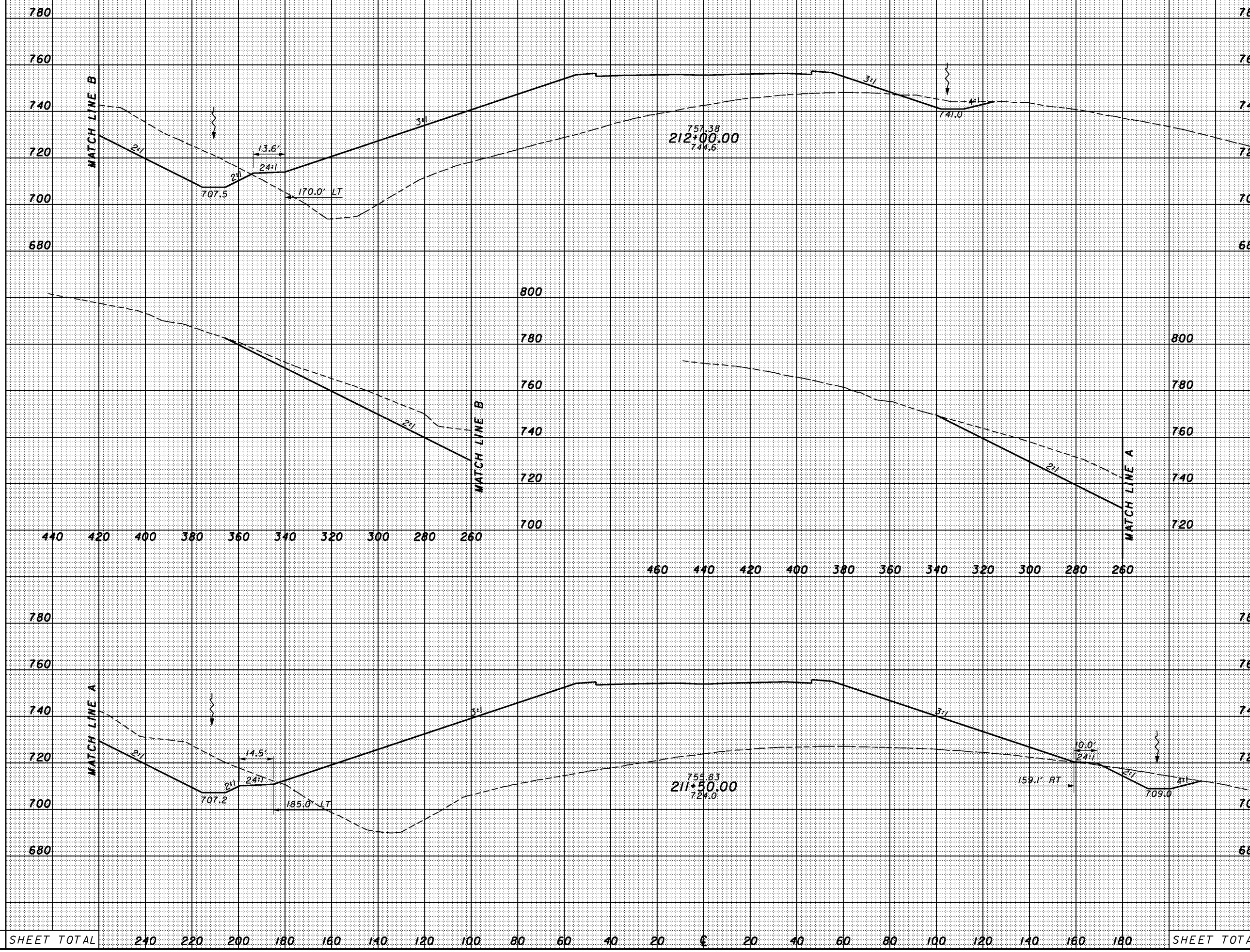




SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8:57:36 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T136668s-sr-823\_g.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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CROSS SECTIONS  
SR823 - STA. 211+50.00 TO STA. 212+00.00

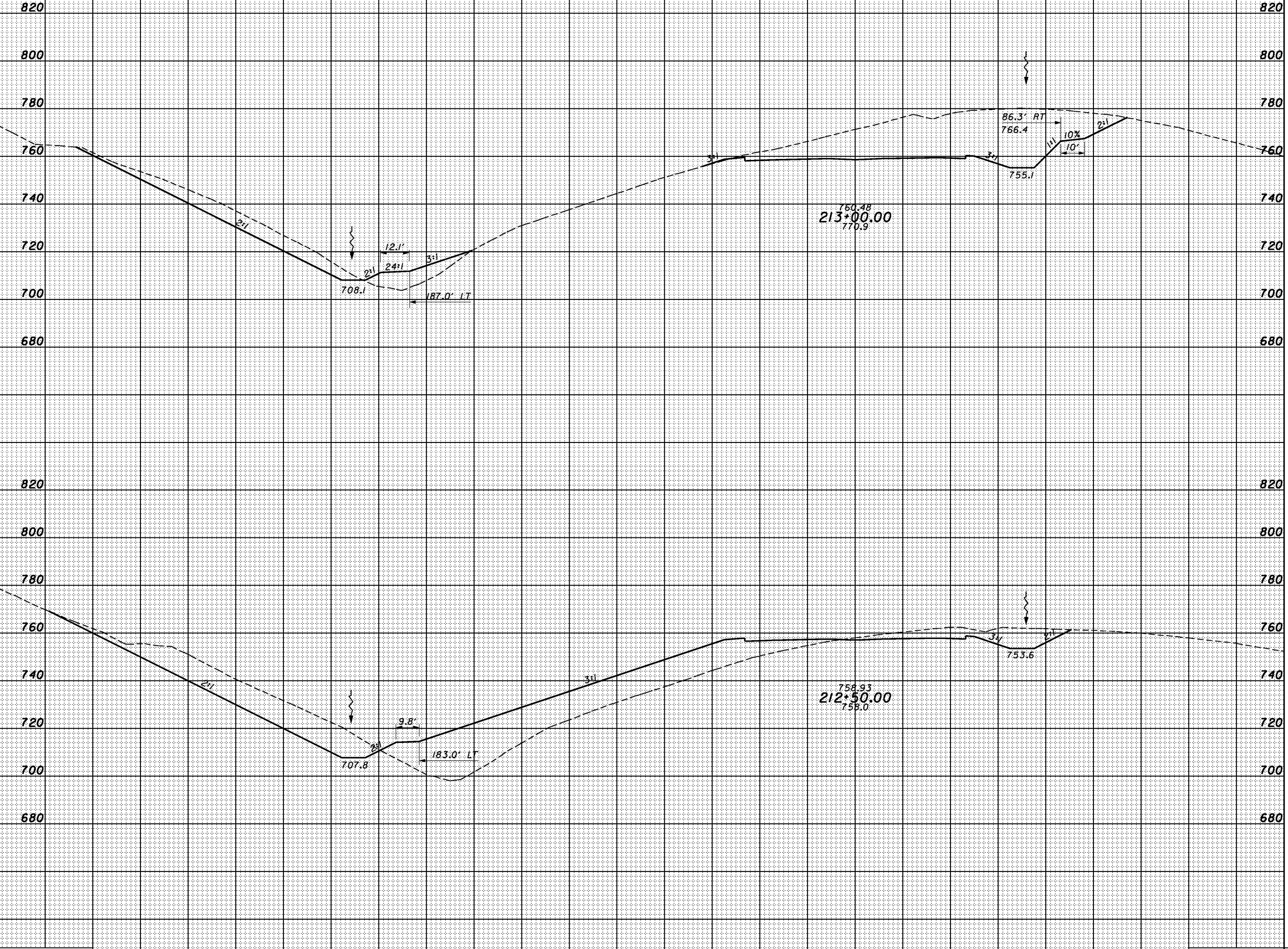
SCI-823-0.00



8:57:37 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_g.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



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. 212+50.00 TO STA. 213+00.00

SCI-823-0.00

8:57:38 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823\_g.dgn

SEEDING	
END WIDTH	SO. YDS.

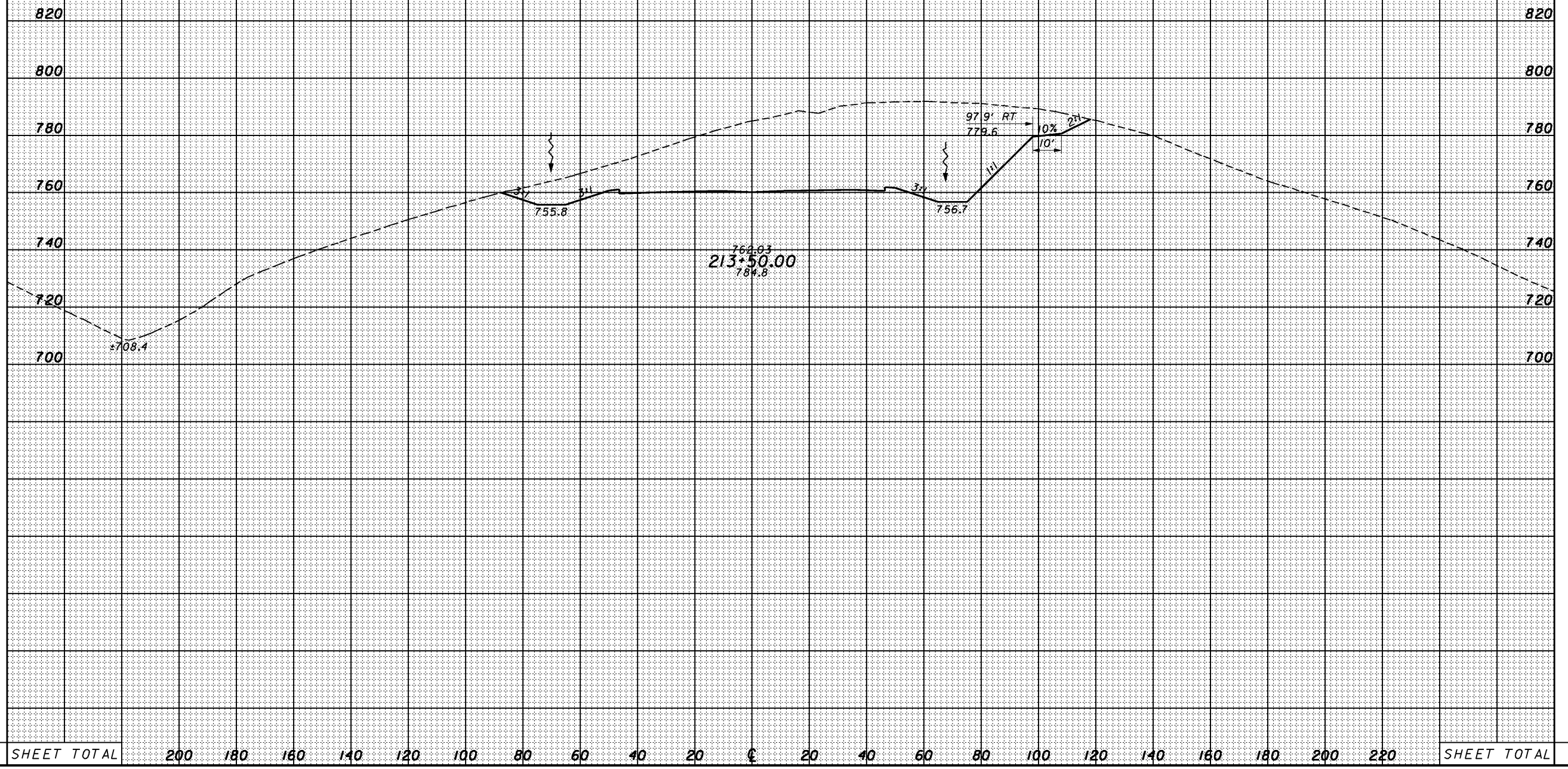
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 213+50.00

SCI-823-0.00

320



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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8:57:40 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823-h.dgn

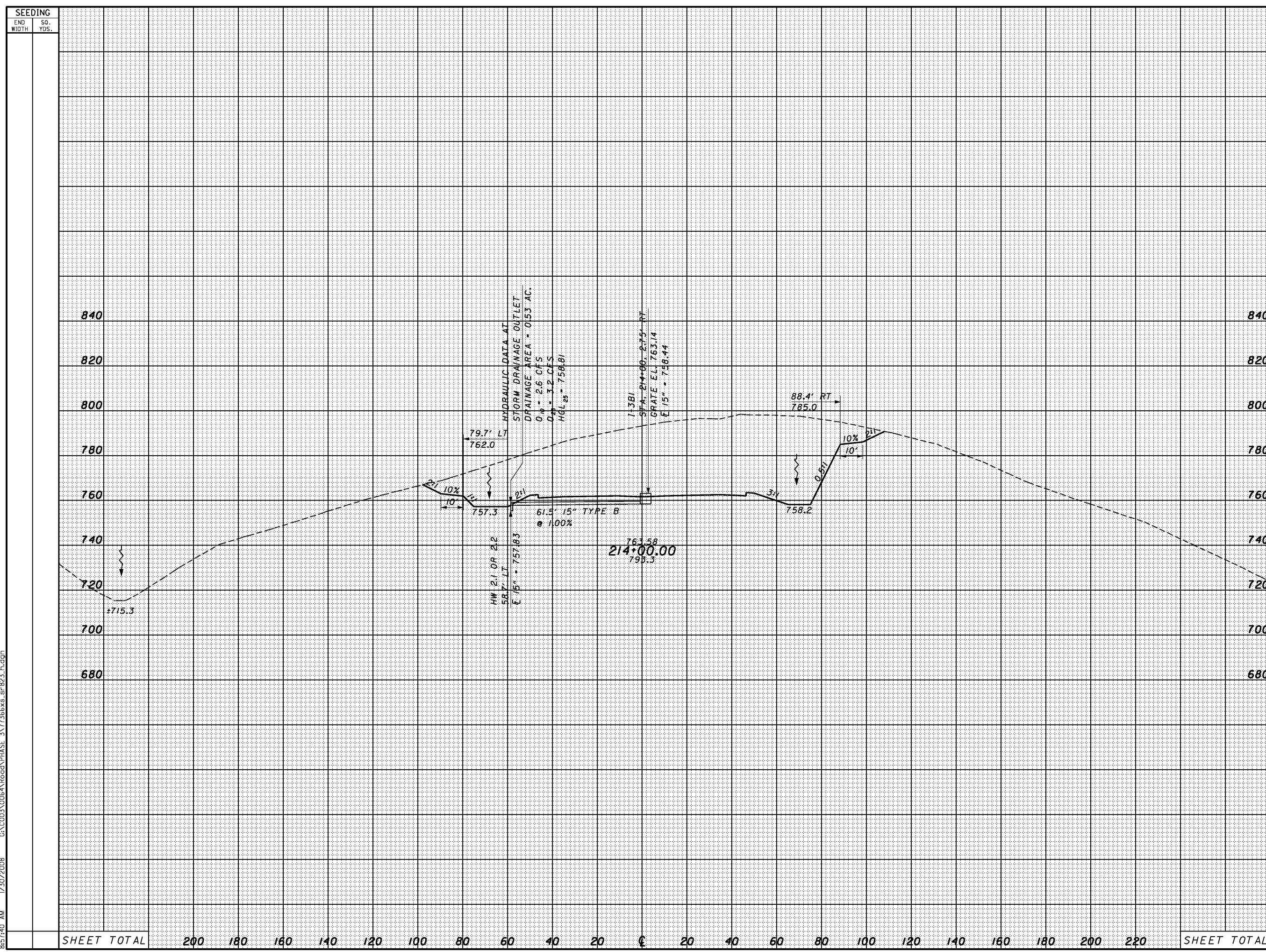
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED

CROSS SECTIONS  
SR823 - STA. 214+00.00

SCI-823-0.00



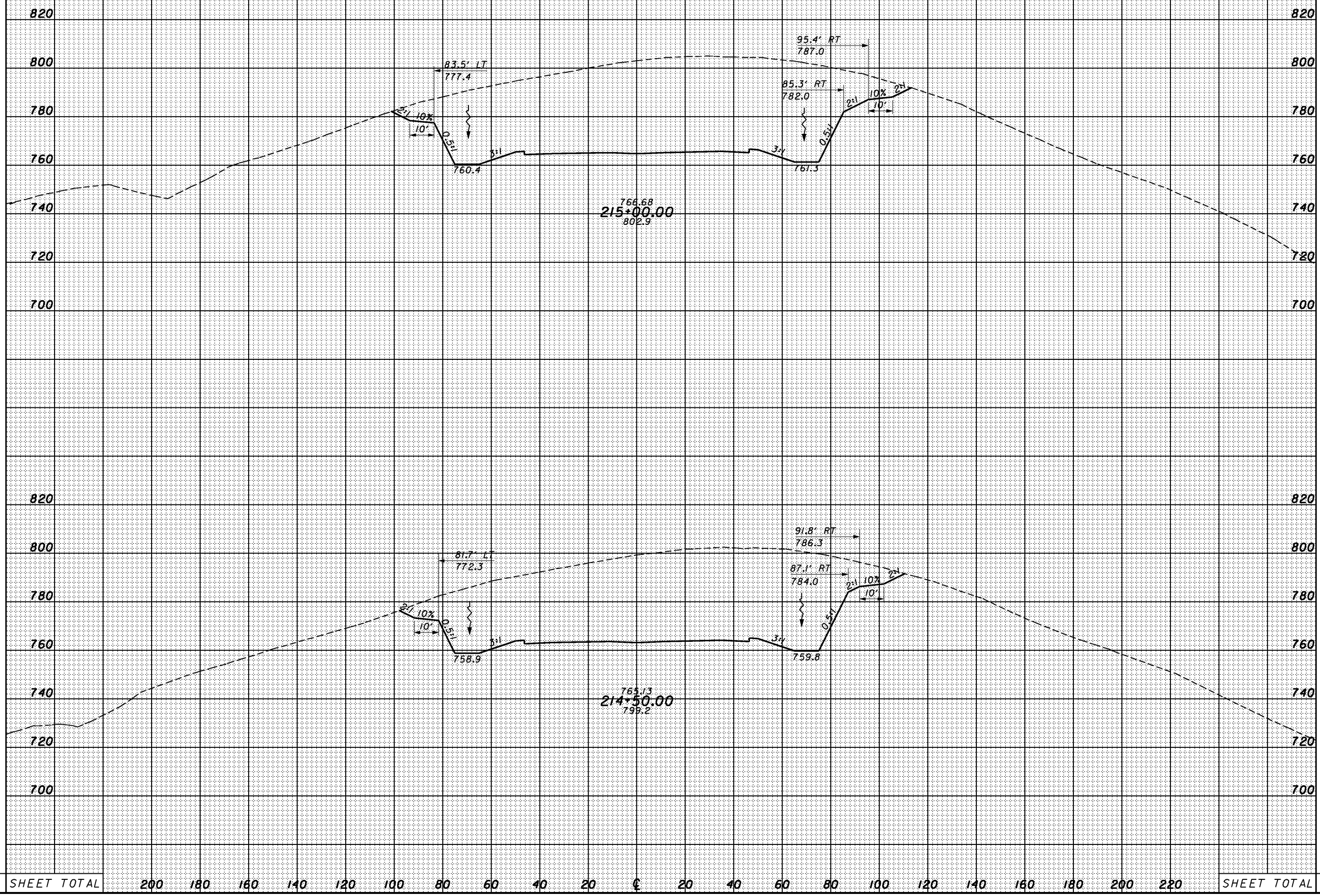
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_h.dgn 8:57:41 AM



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. 214+50.00 TO STA. 215+00.00

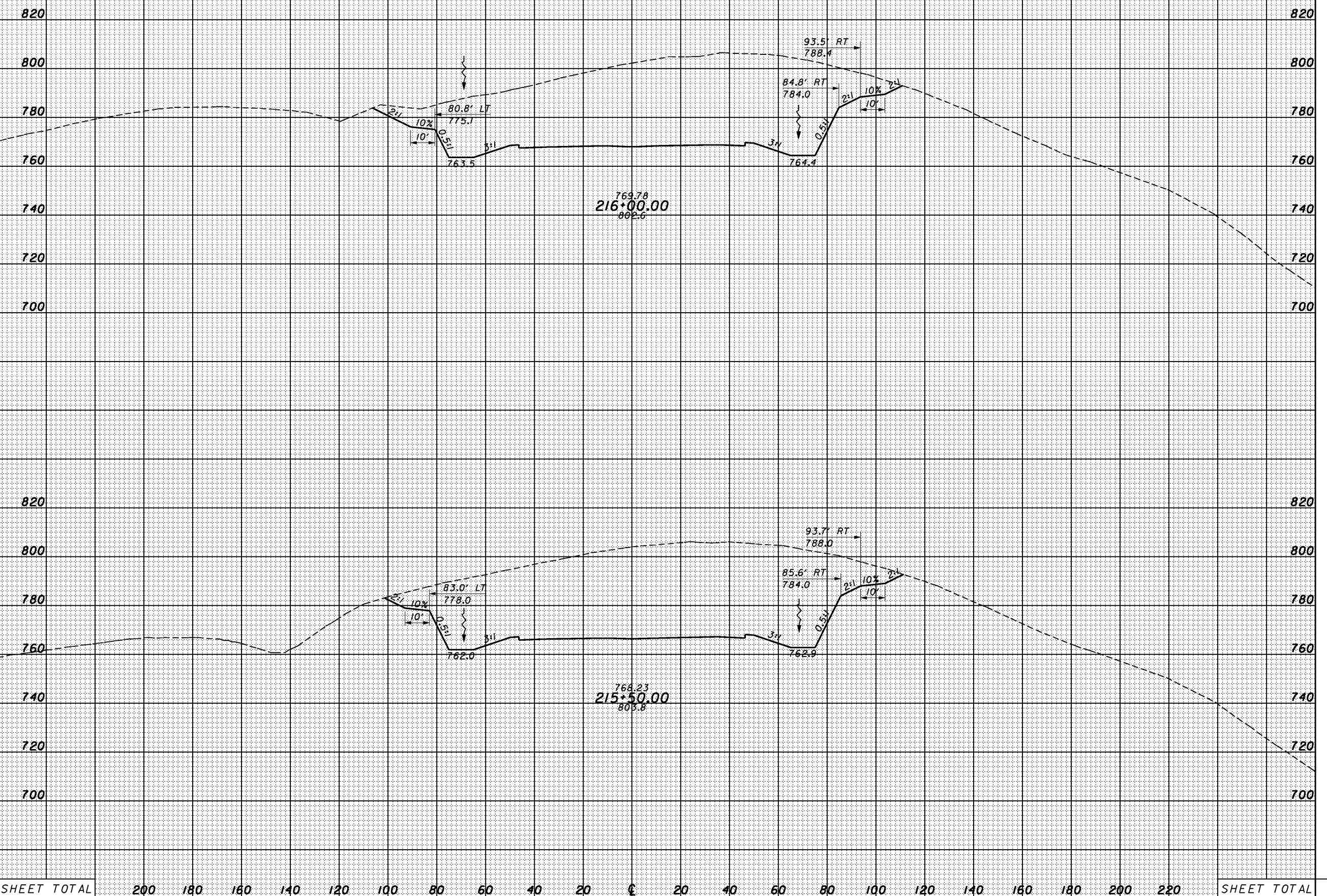
SCI-823-0.00



8:57:42 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_h.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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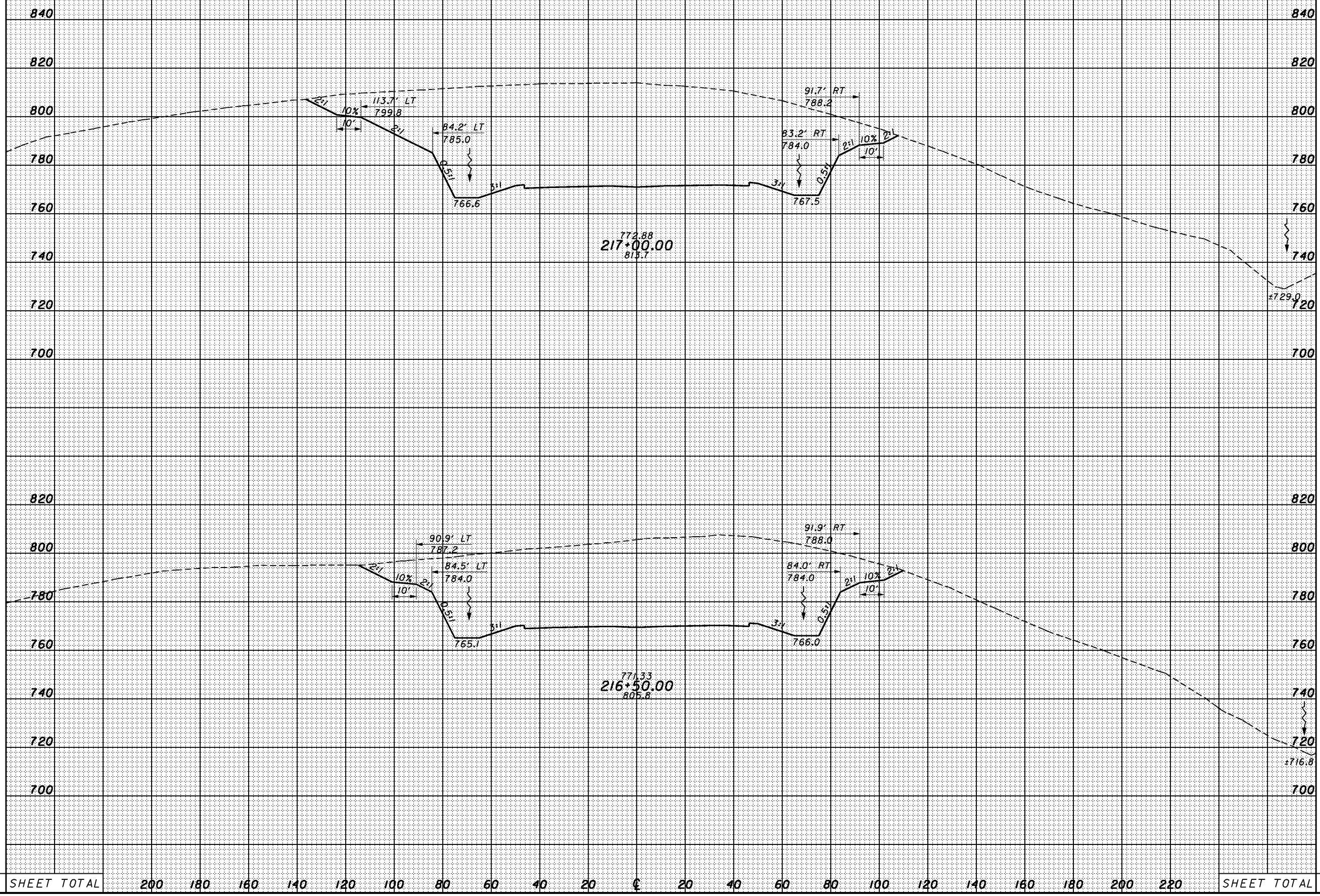
CROSS SECTIONS  
SR823 - STA. 215+50.00 TO STA. 216+00.00

SCI-823-0.00

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8/5/14 3 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_h.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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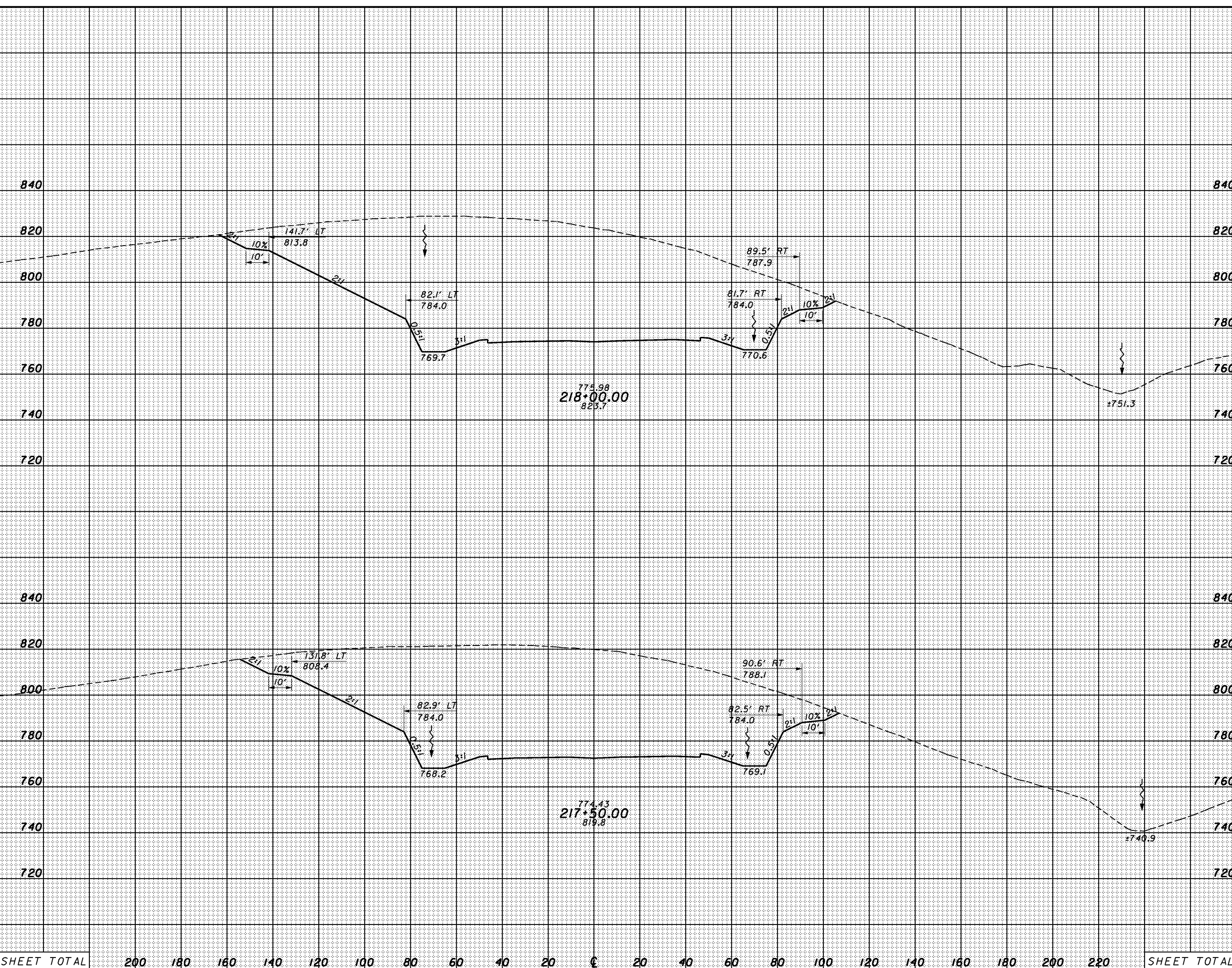
CROSS SECTIONS  
SR823 - STA. 216+50.00 TO STA. 217+00.00

SCI-823-0.00

8/5/14 4:44 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\17136666s-sr-823-h.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. 217+50.00 TO STA. 218+00.00

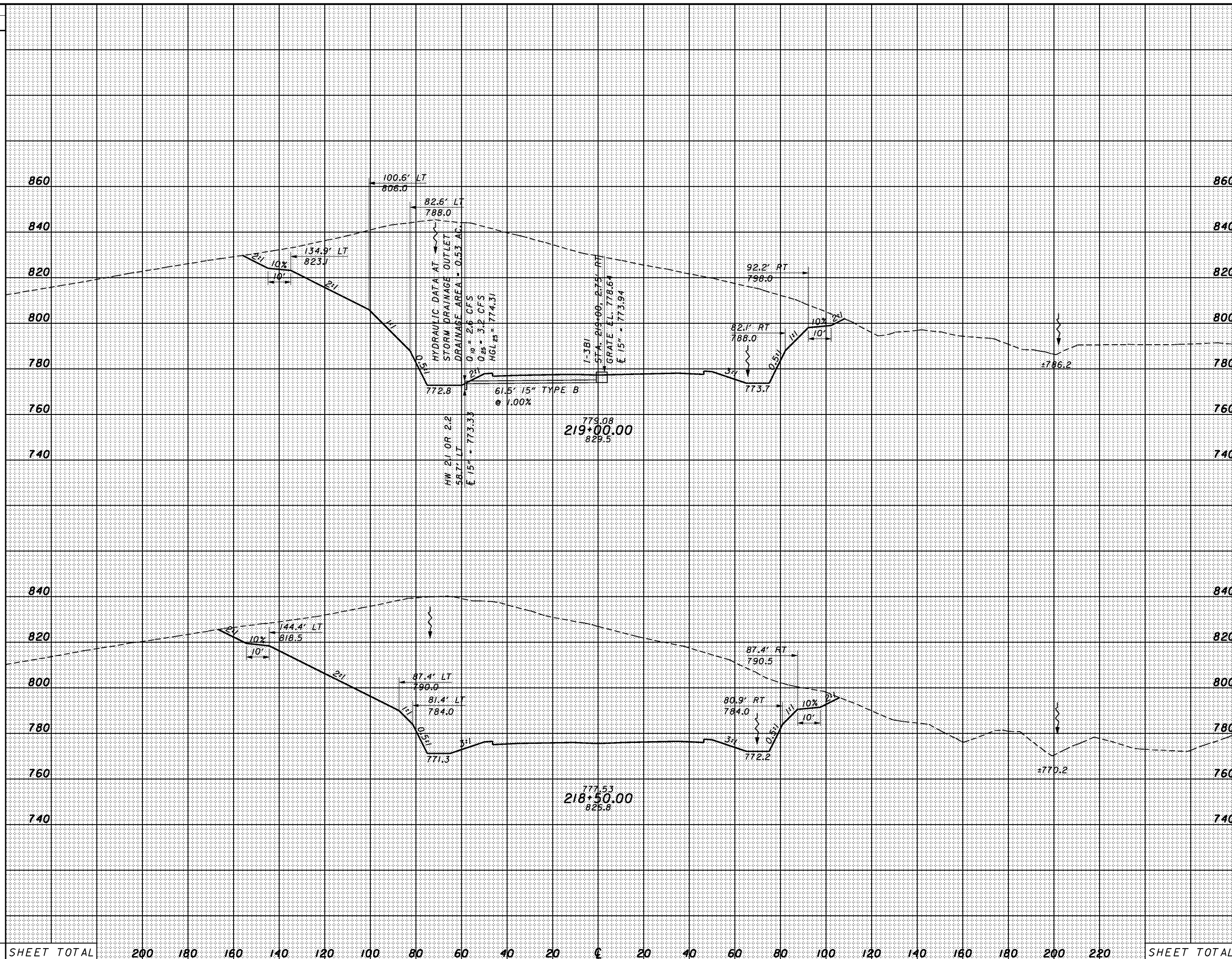
SCI-823-0.00



8:57:45 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_h.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. 218+50.00 TO STA. 219+00.00

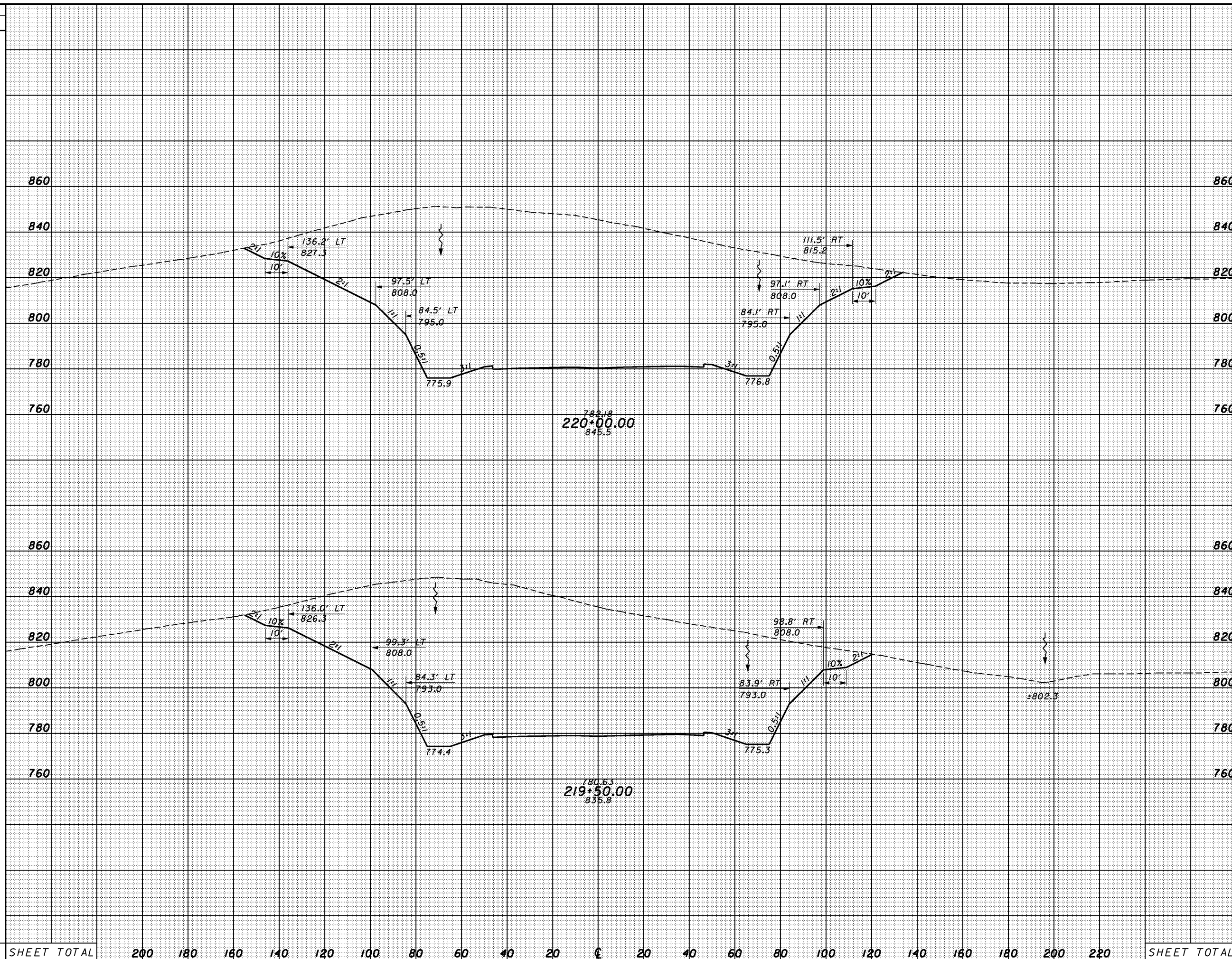
SCI-823-0.00



8:57:46 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_h.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. 219+50.00 TO STA. 220+00.00

SCI-823-0.00

327



8:57:48 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_h.dgn

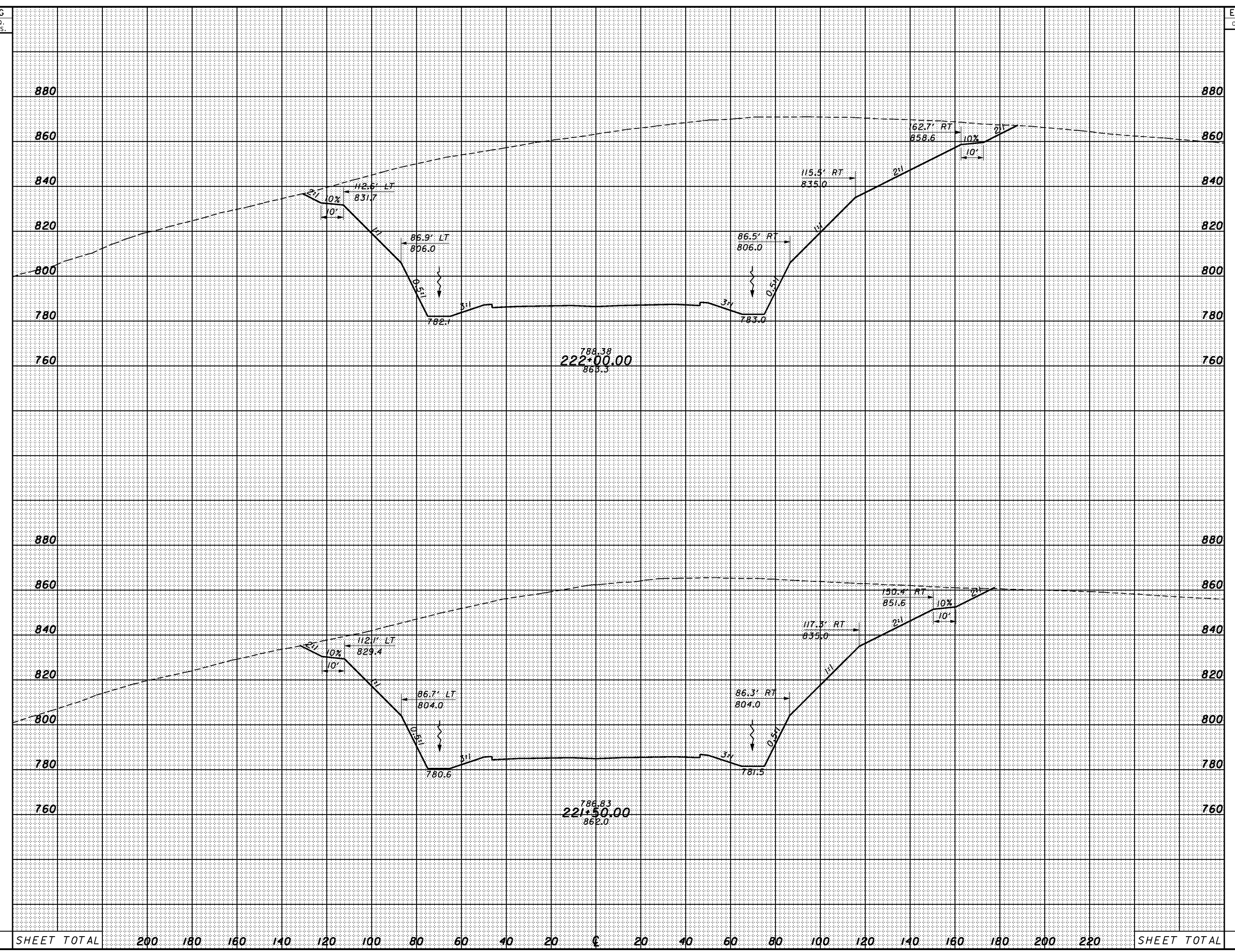
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 221+50.00 TO STA. 222+00.00

SCI-823-0.00



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



8:57:49 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823-h.dgn

SEEDING	
END WIDTH	SO. YDS.

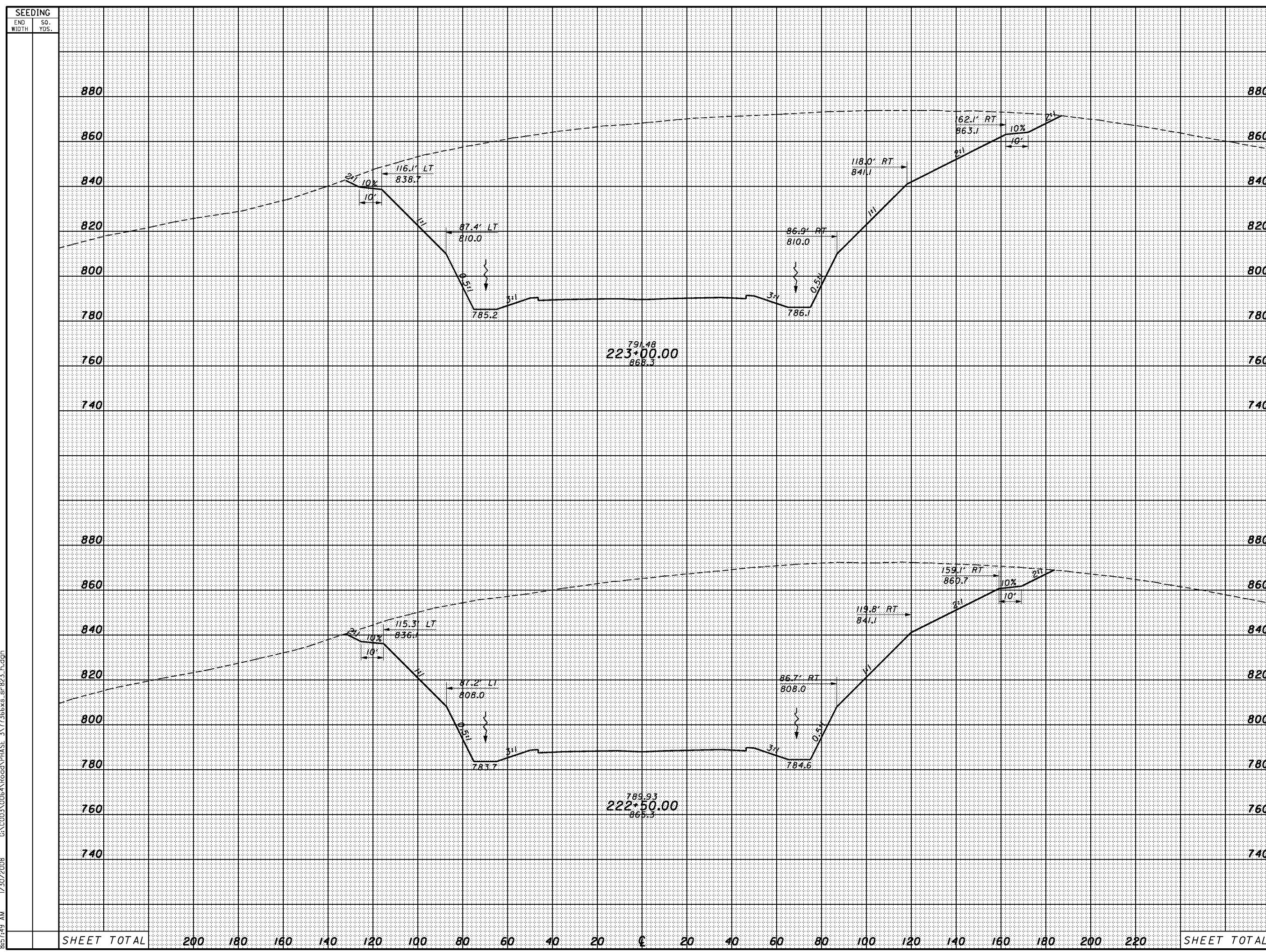
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 222+50.00 TO STA. 223+00.00

SCI-823-0.00

330



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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8:57:50 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_h.dgn

SEEDING	
END WIDTH	SO. YDS.

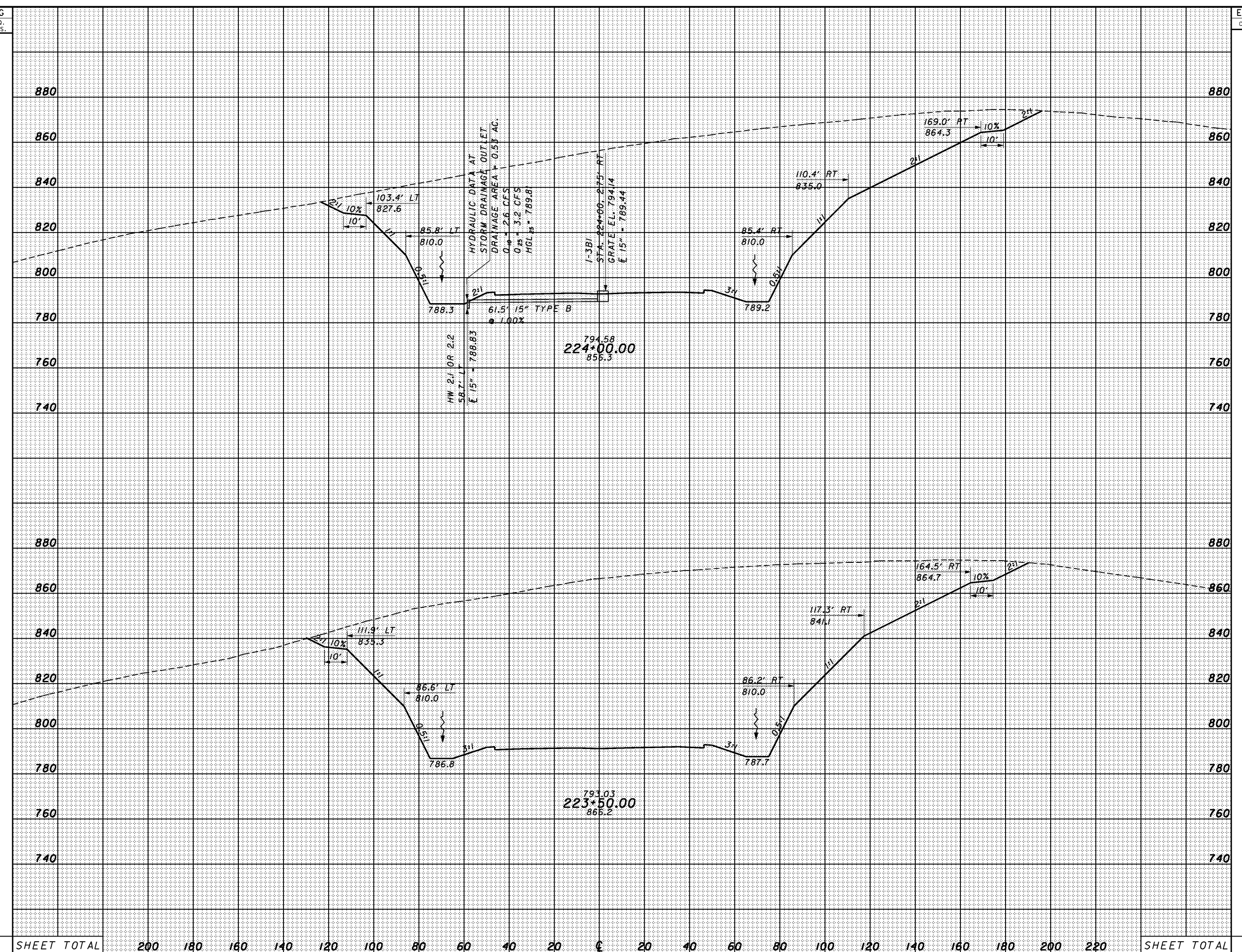
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 223+50.00 TO STA. 224+00.00

SCI-823-0.00

331

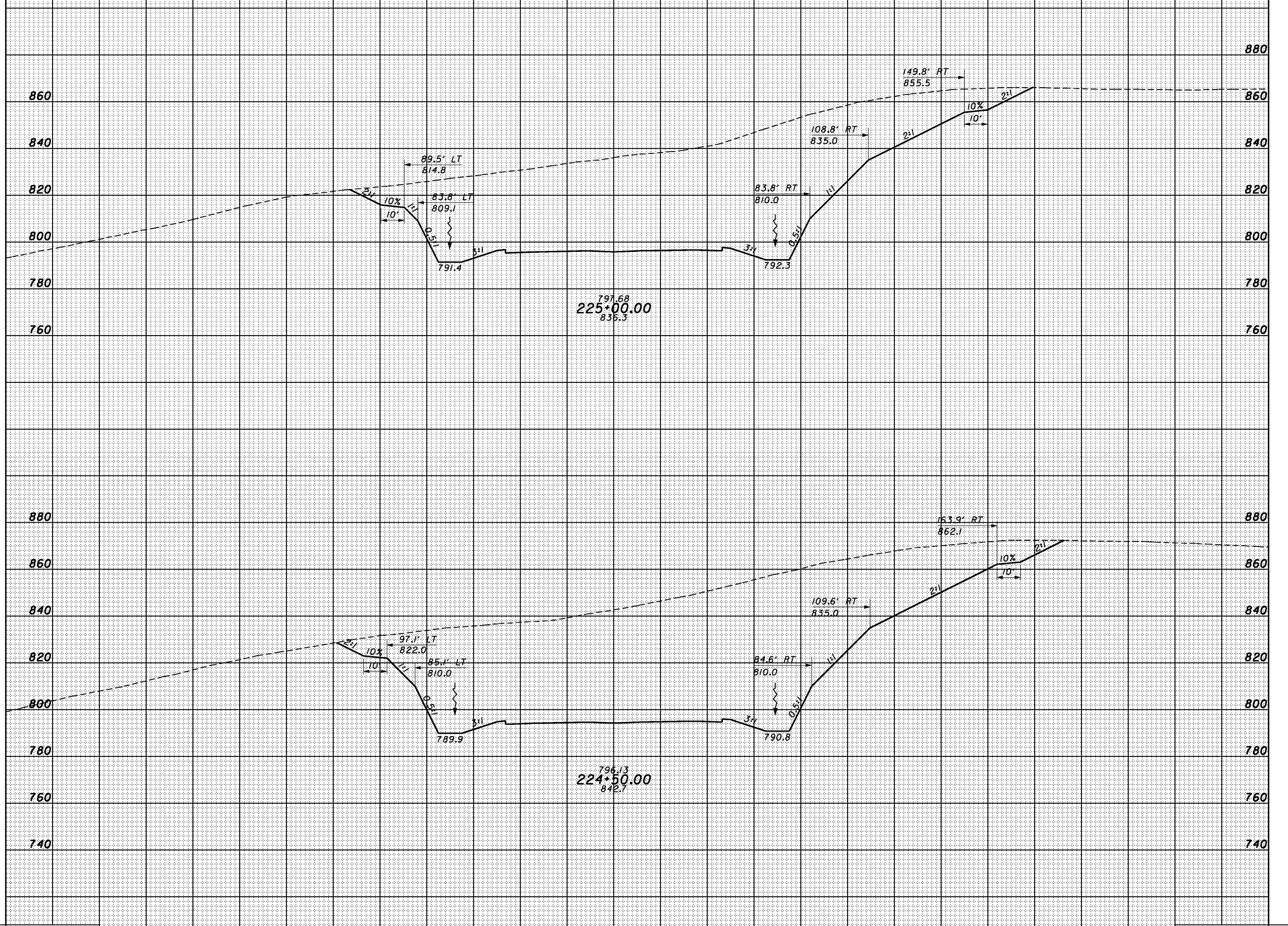


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823-h.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

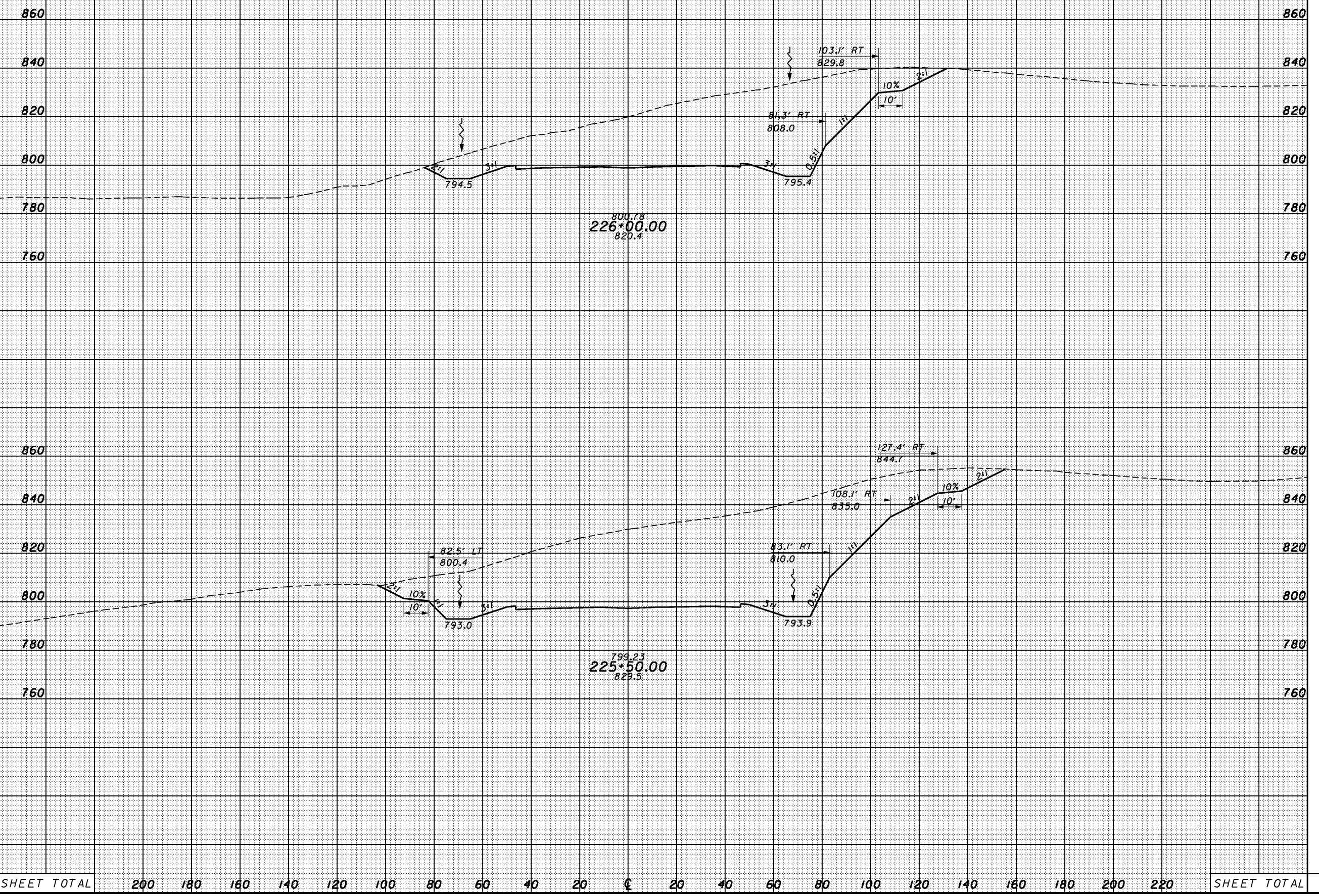
CROSS SECTIONS  
SR823 - STA. 224+50.00 TO STA. 225+00.00

SCI-823-0.00

1/30/2008 8:57:52 AM G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_h.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. 225+50.00 TO STA. 226+00.00

SCI-823-0.00

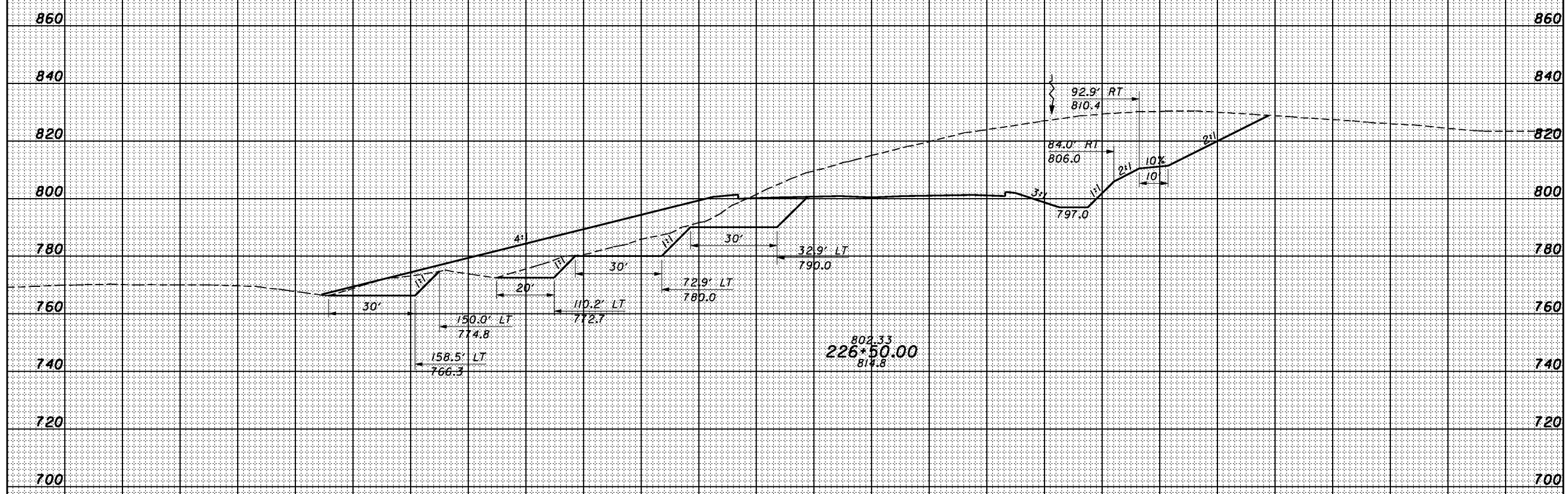


SEEDING  
END WIDTH SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

8/5/2008 11:30/2008 G:\C003\0064\Road\PHASE 3\T13668s-sr-823\_h.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	¢	20	40	60	80	100	120	140	160	180	SHEET TOTAL
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**CROSS SECTIONS**  
**SR823 - STA. 226+50.00**

**SCI-823-0.00**

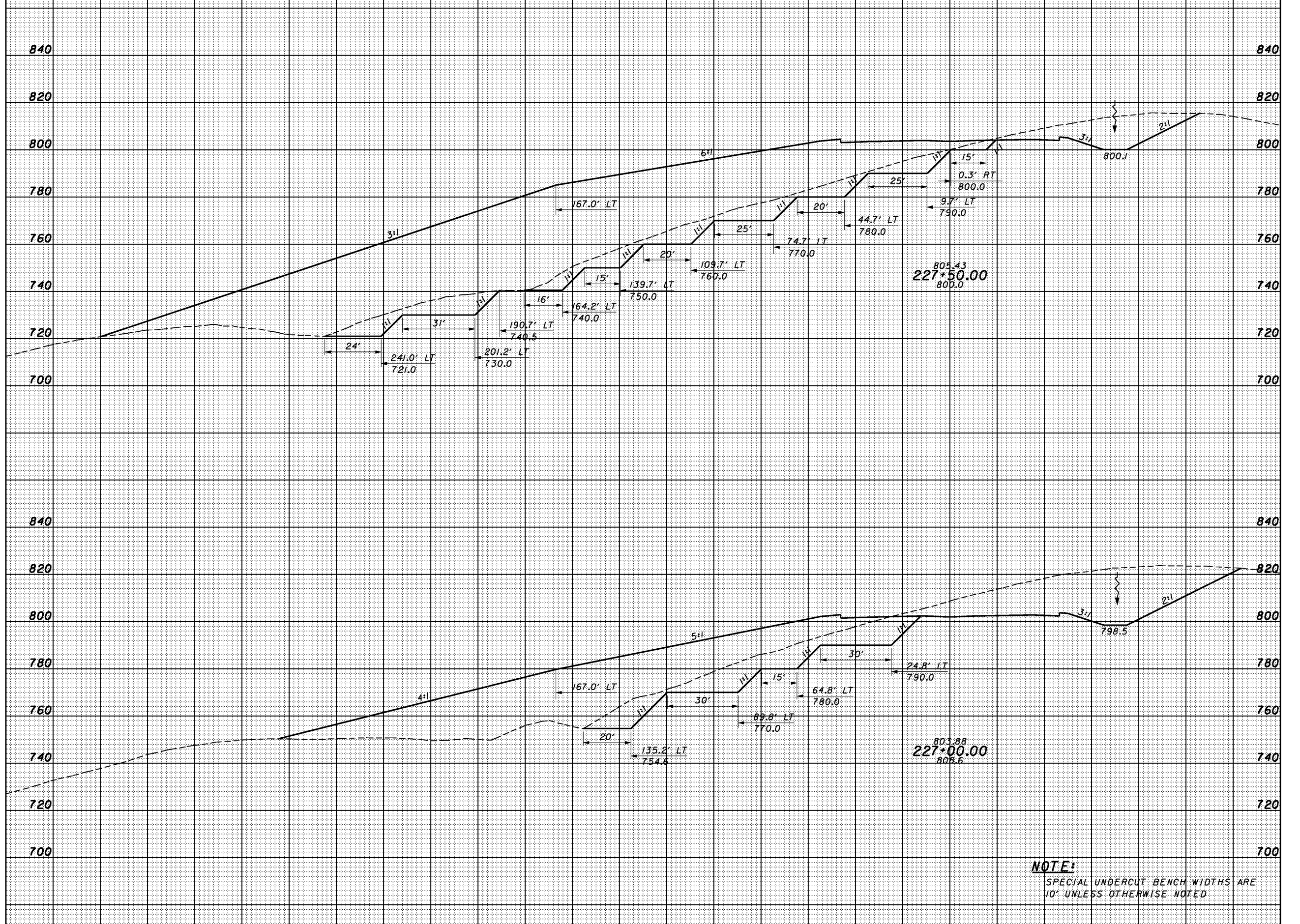
334



SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8/5/2008 11:30/2008 G:\C003\0064\Road\PHASE 3\T13668s-sr-823\_h.dgn



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

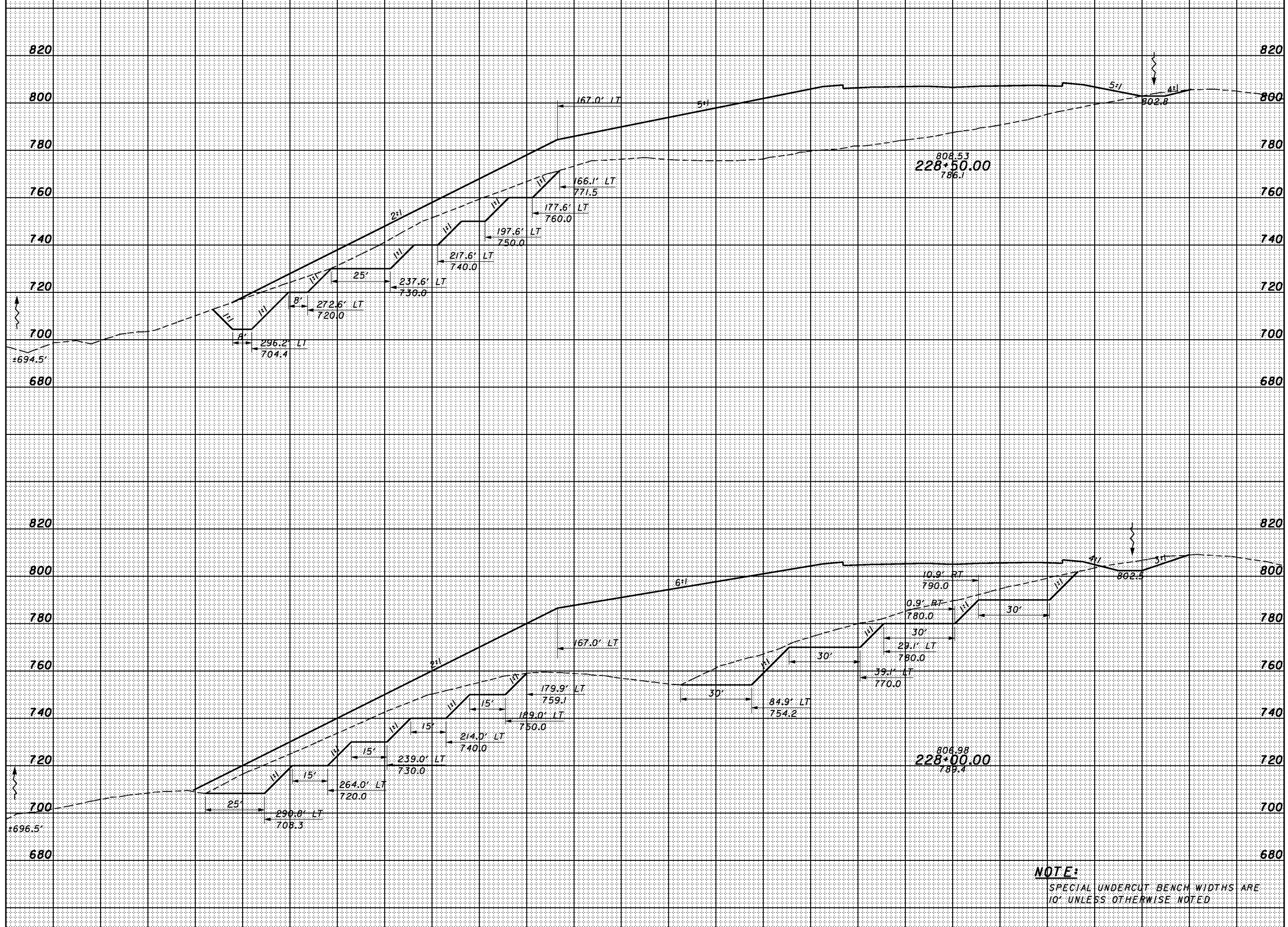
SR823 - STA. 227+00.00 TO STA. 227+50.00

SCI-823-0.00

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8:57:55 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823-h.dgn



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

CROSS SECTIONS  
SR823 - STA. 228+00.00 TO STA. 228+50.00  
SCI-823-0.00







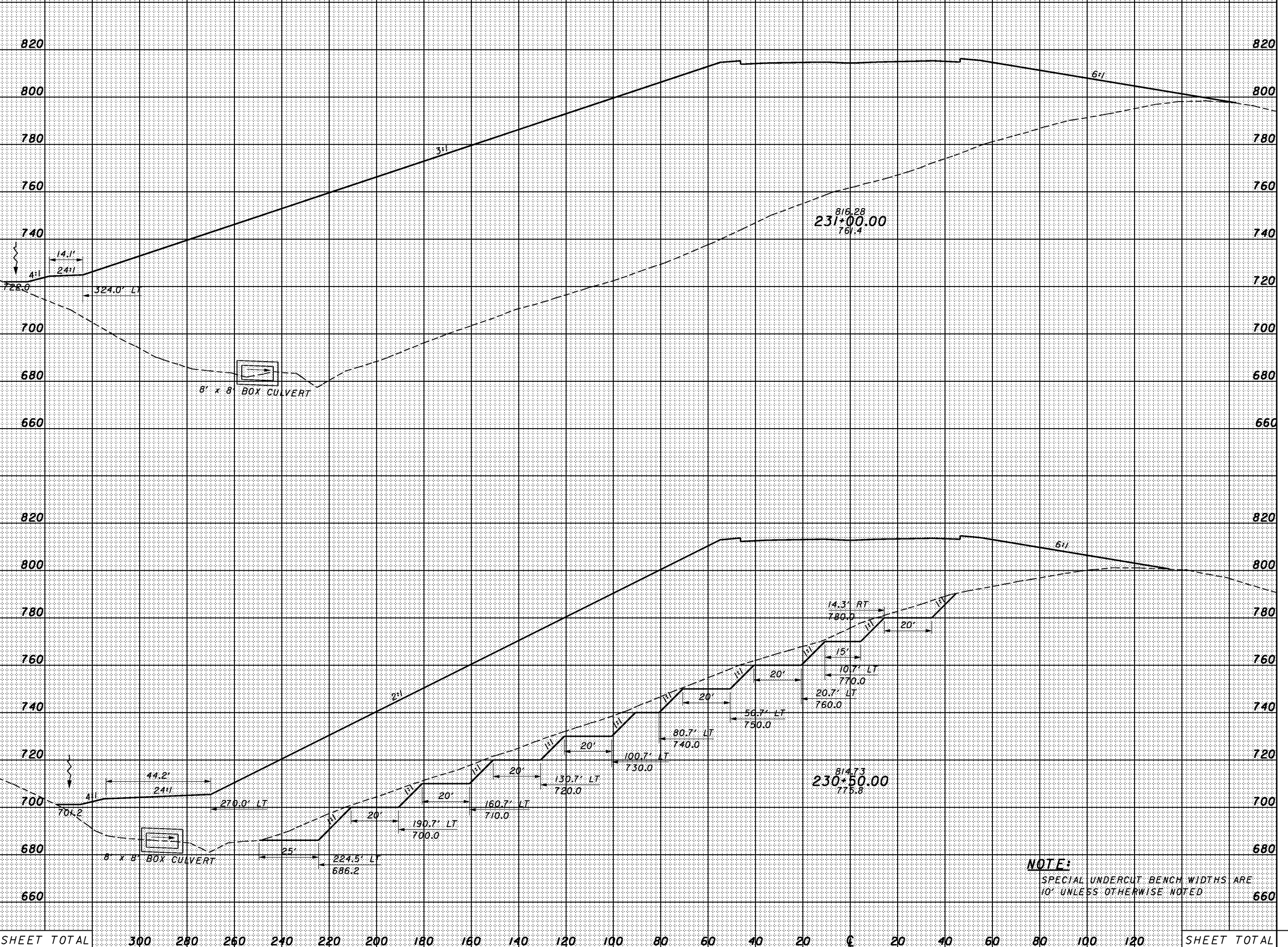


SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

8/5/08 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13668x-sr-823-h.dgn



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

CROSS SECTIONS  
SR823 - STA. 230+50.00 TO STA. 231+00.00

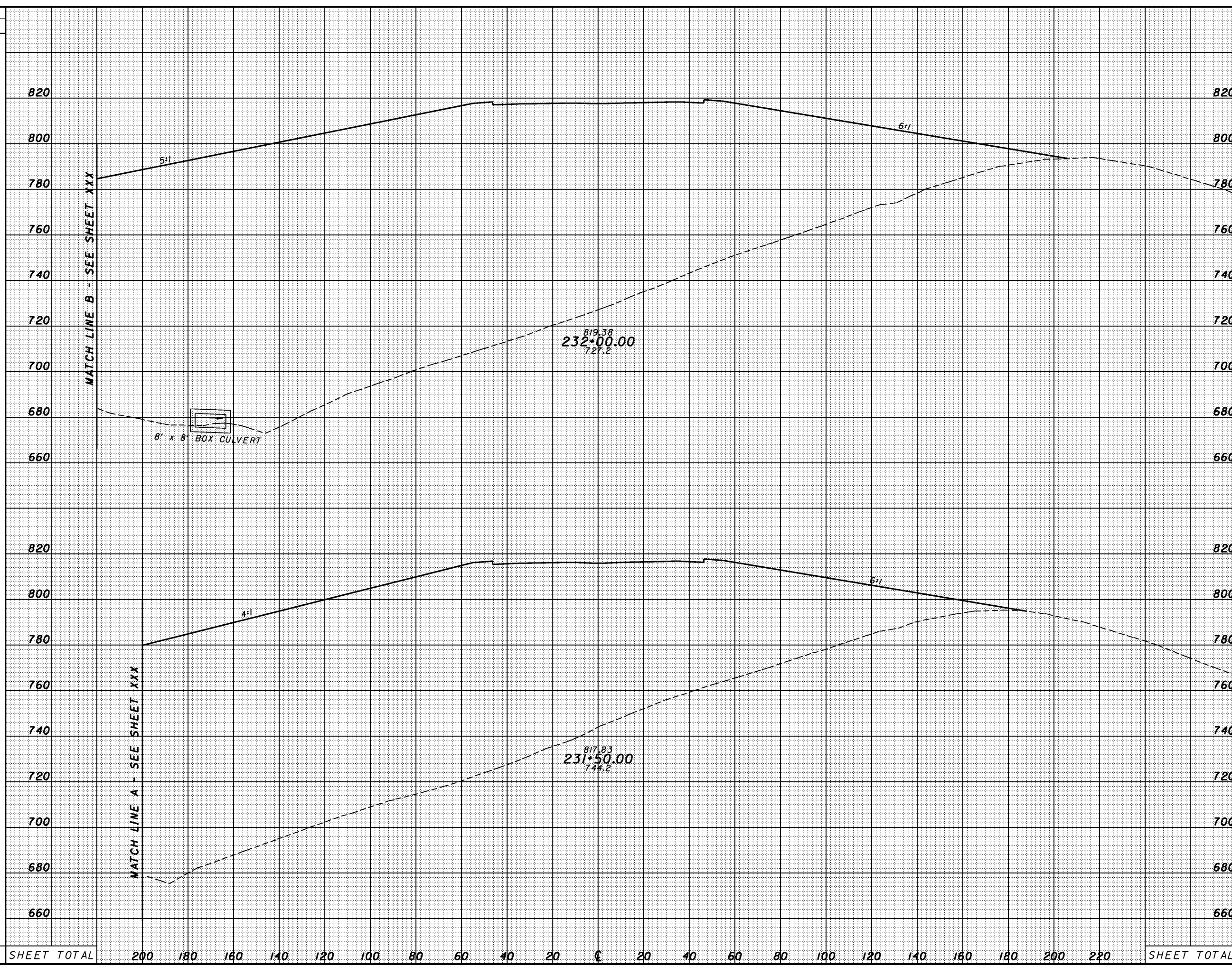
SCI-823-0.00

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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8:57:59 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_h.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	

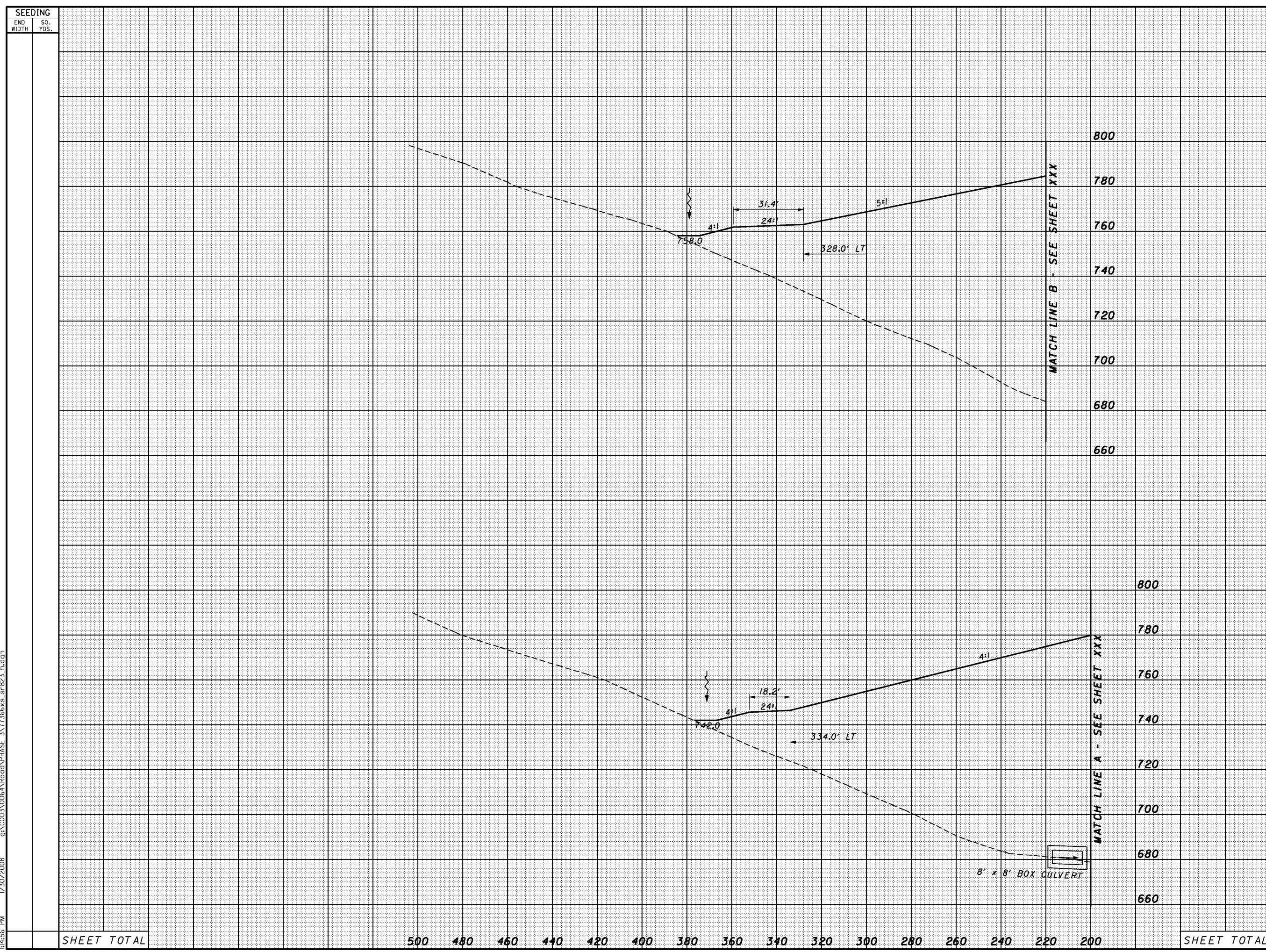
CROSS SECTIONS  
SR823 - STA. 231+50.00 TO STA. 232+00.00

SCI-823-0.00

1/30/2008 4:45:56 PM g:\c003\0064\Road\PHASE 3\T13666xs\_sr823\_h.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SR823 - STA. 231+50.00 TO STA. 232+00.00

SCI-823-0.00

SHEET TOTAL

500 480 460 440 420 400 380 360 340 320 300 280 260 240 220 200

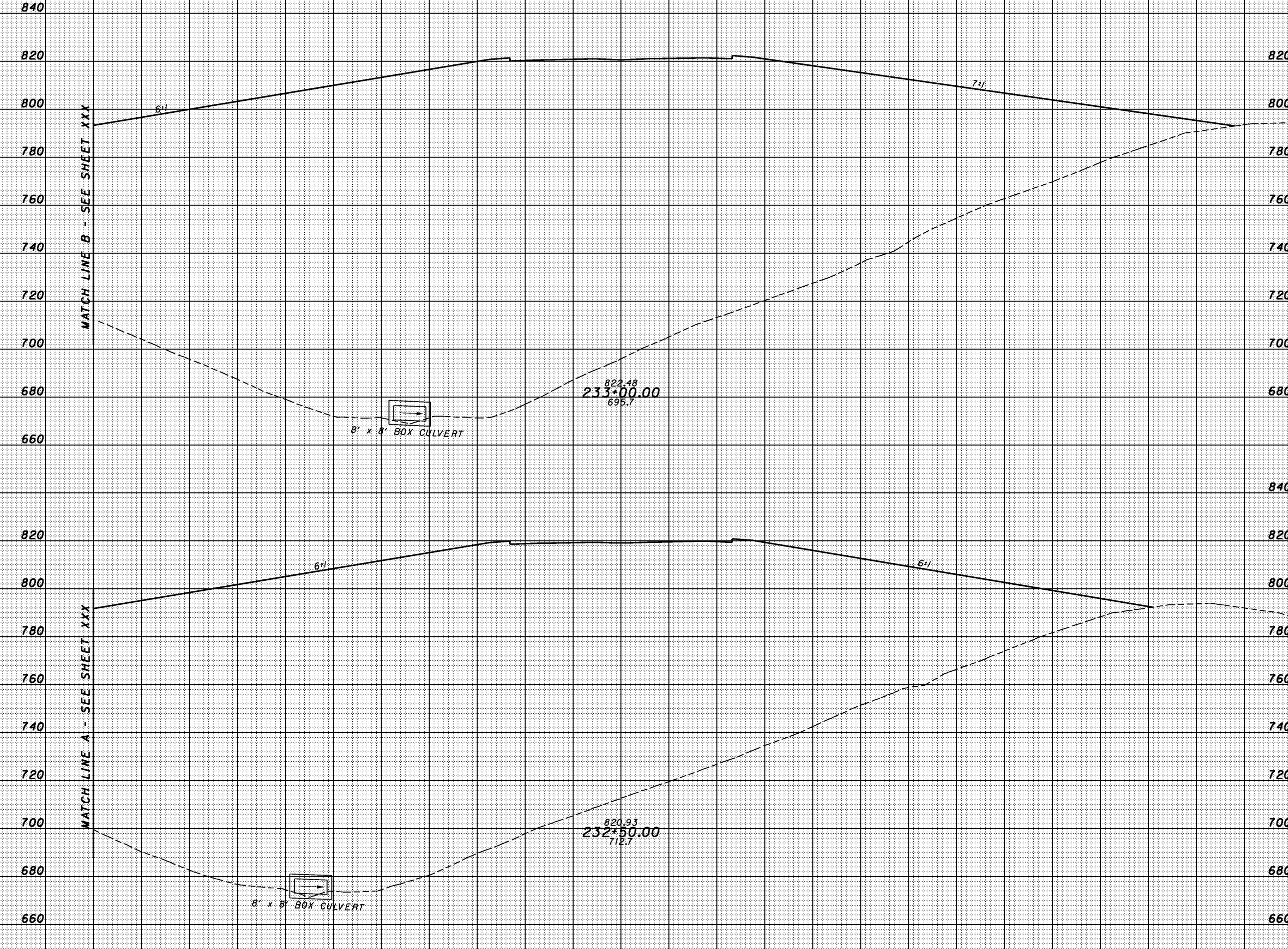
SHEET TOTAL



8:58:00 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823-h.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



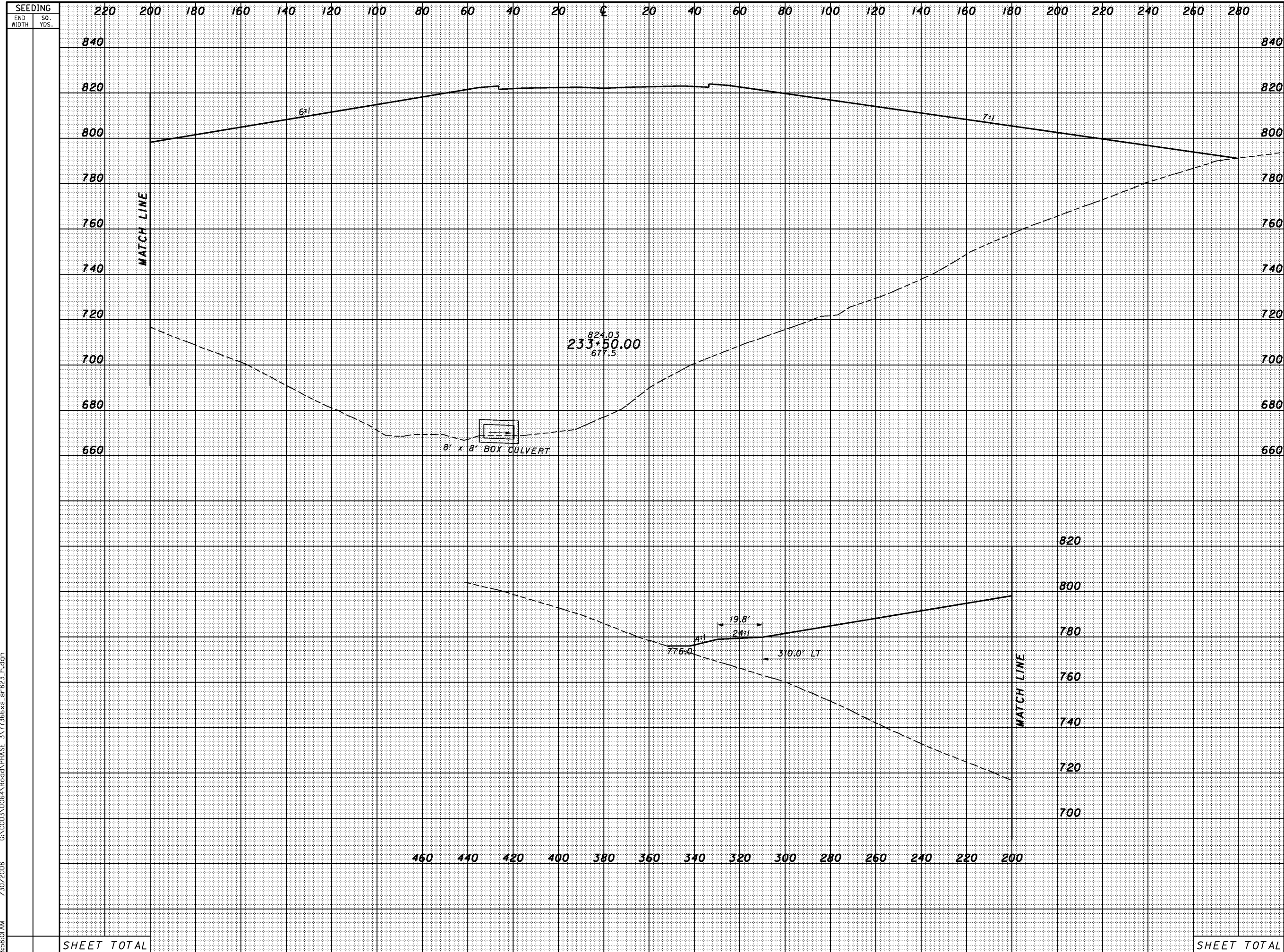
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	±	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS  
 SR823 - STA. 232+50.00 TO STA. 233+00.00

SCI-823-0.00







8/30/2008 11:30:2008 G:\C003\0064\Road\PHASE 3\171366&s-sr-823\_h.dgn

END CUT	AREA FILL	VOLUME		CALCULATED	CHECKED
		CUT	FILL		
<b>CROSS SECTIONS SR823 - STA. 233+50.00</b>					
<b>SCI-823-0.00</b>					
<span style="border: 1px solid black; border-radius: 50%; padding: 5px;">344</span>					

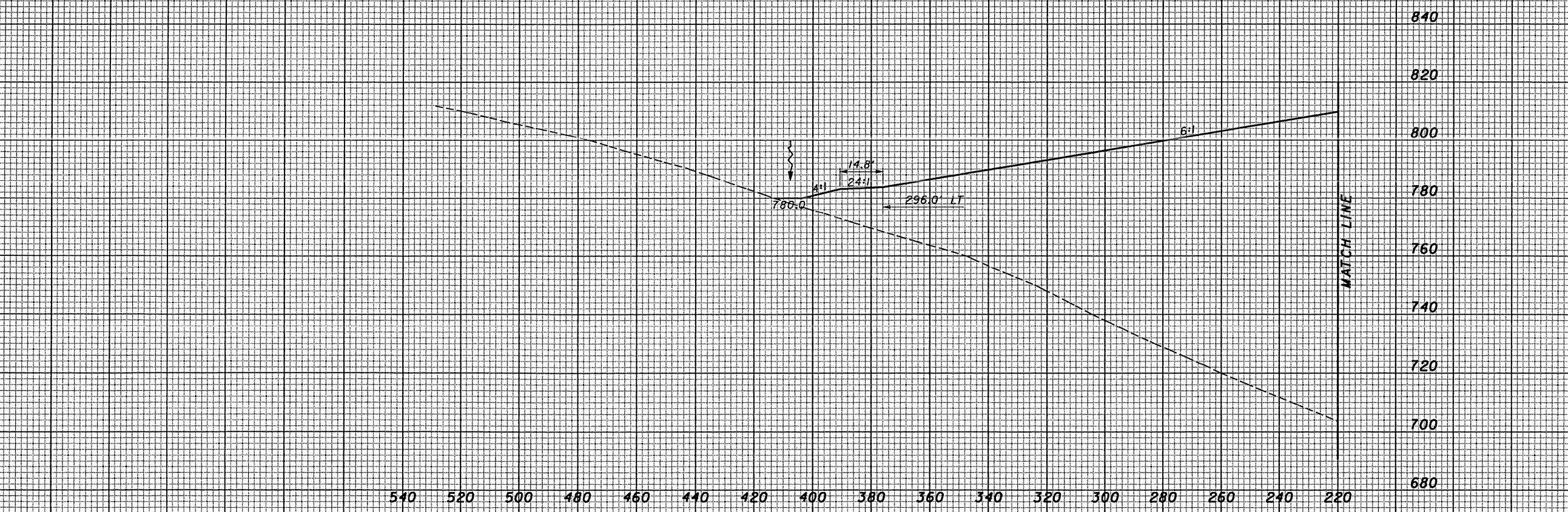
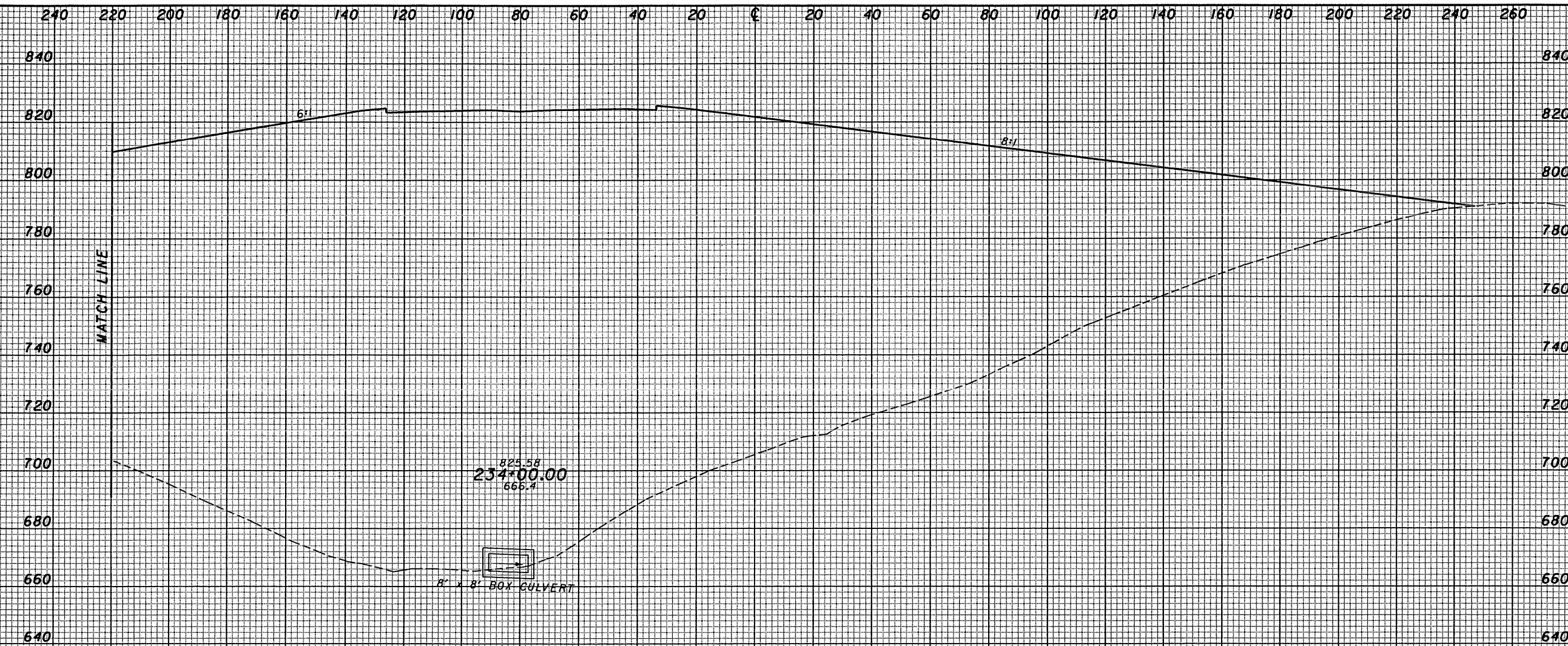
SHEET TOTAL

SHEET TOTAL



6:30:34 PM 11/28/2007 g:\co03\0064\1\ocd\phase 3\77366xs\_sr823\_in.dgn

SEEDING  
END SO.  
WIDTH YDS.

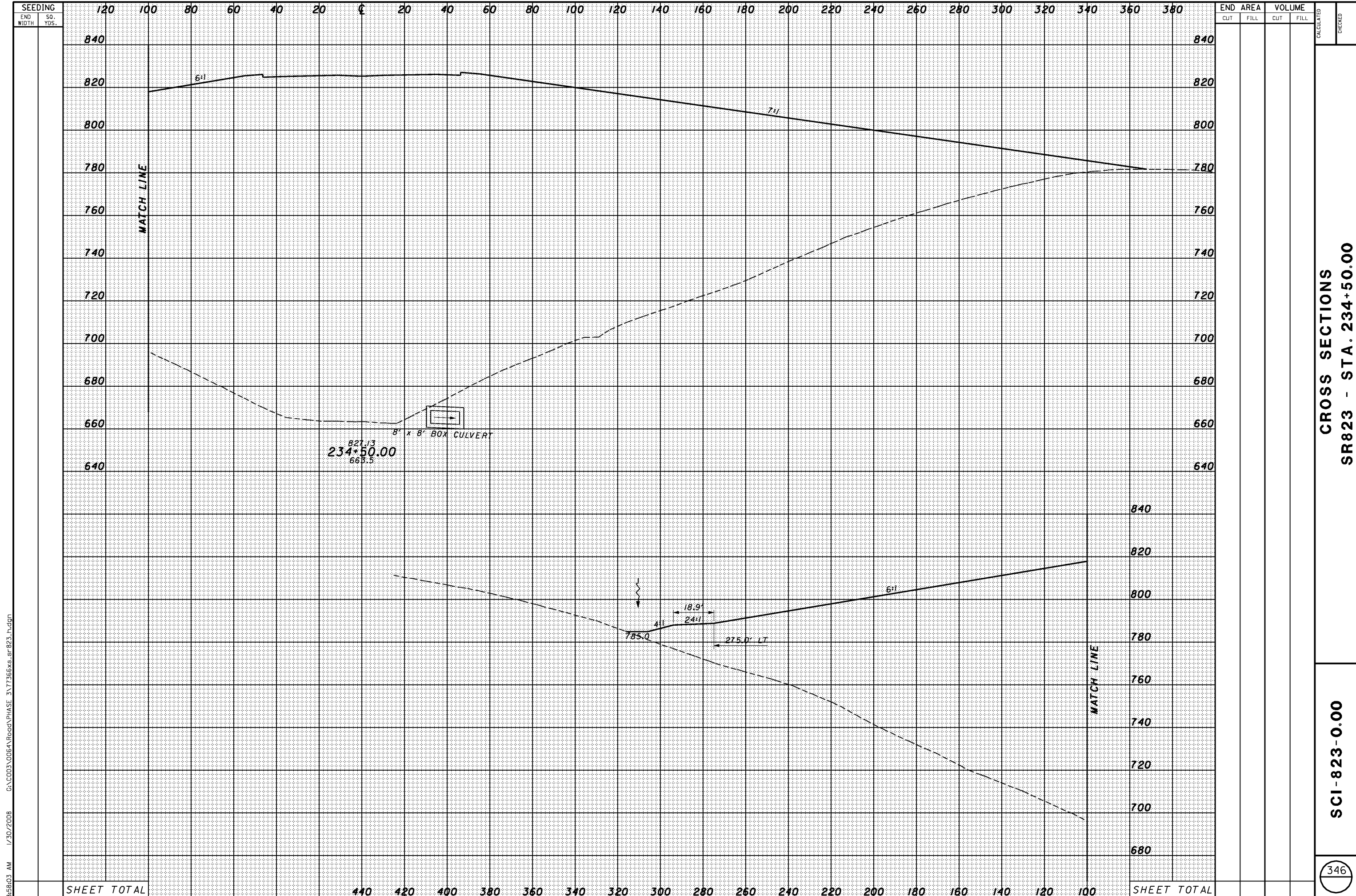


SHEET TOTAL

SHEET TOTAL

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		
<b>CROSS SECTIONS SR823 - STA. 234+00.00</b>					
<b>SCI-823-0.00</b>					
345					





END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

CROSS SECTIONS  
SR823 - STA. 234+50.00

SCI-823-0.00

8:58:03 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_h.dgn







8:58:05 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666x-sr-823-h.dgn

SEEDING	
END WIDTH	SO. YDS.

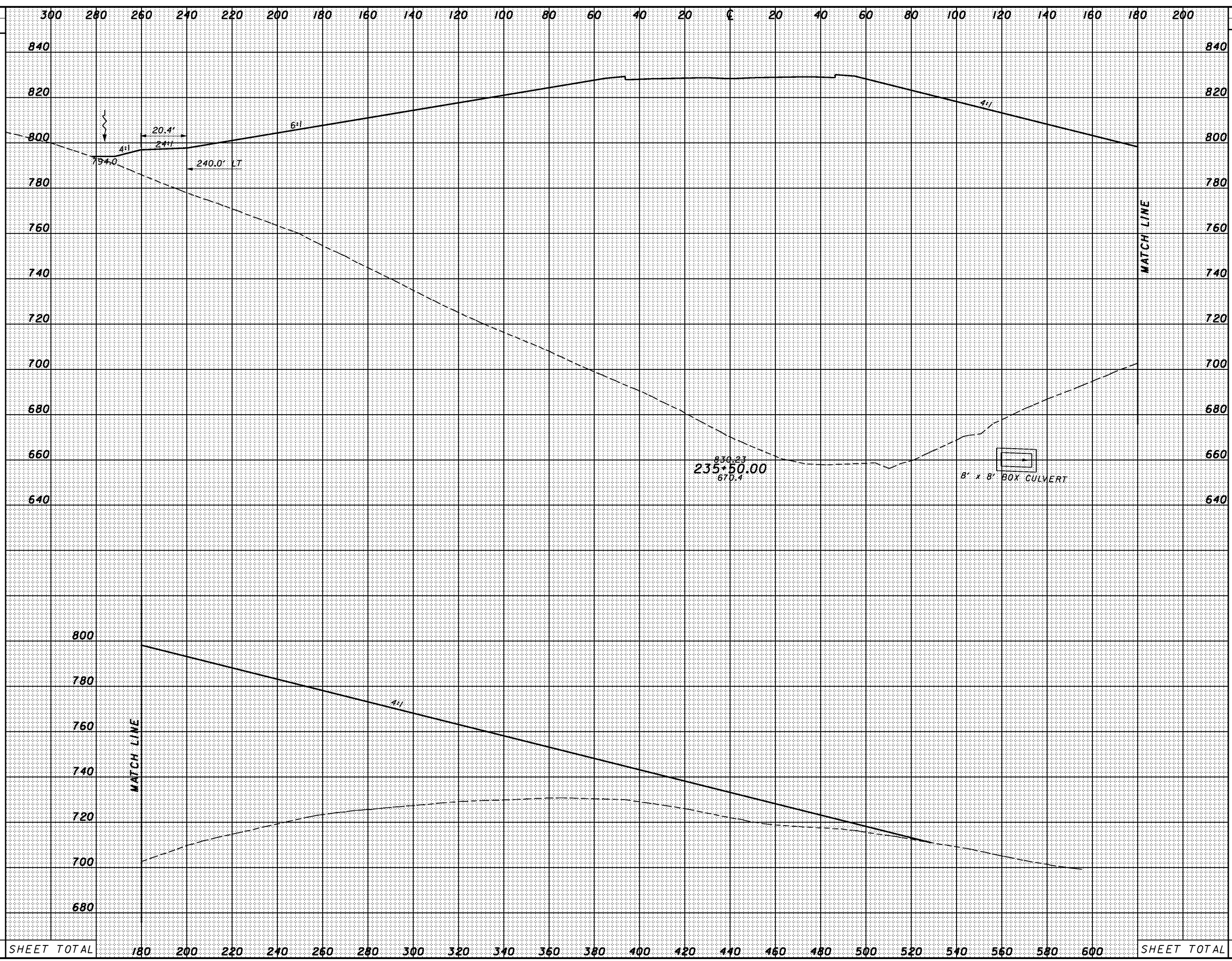
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 235+50.00

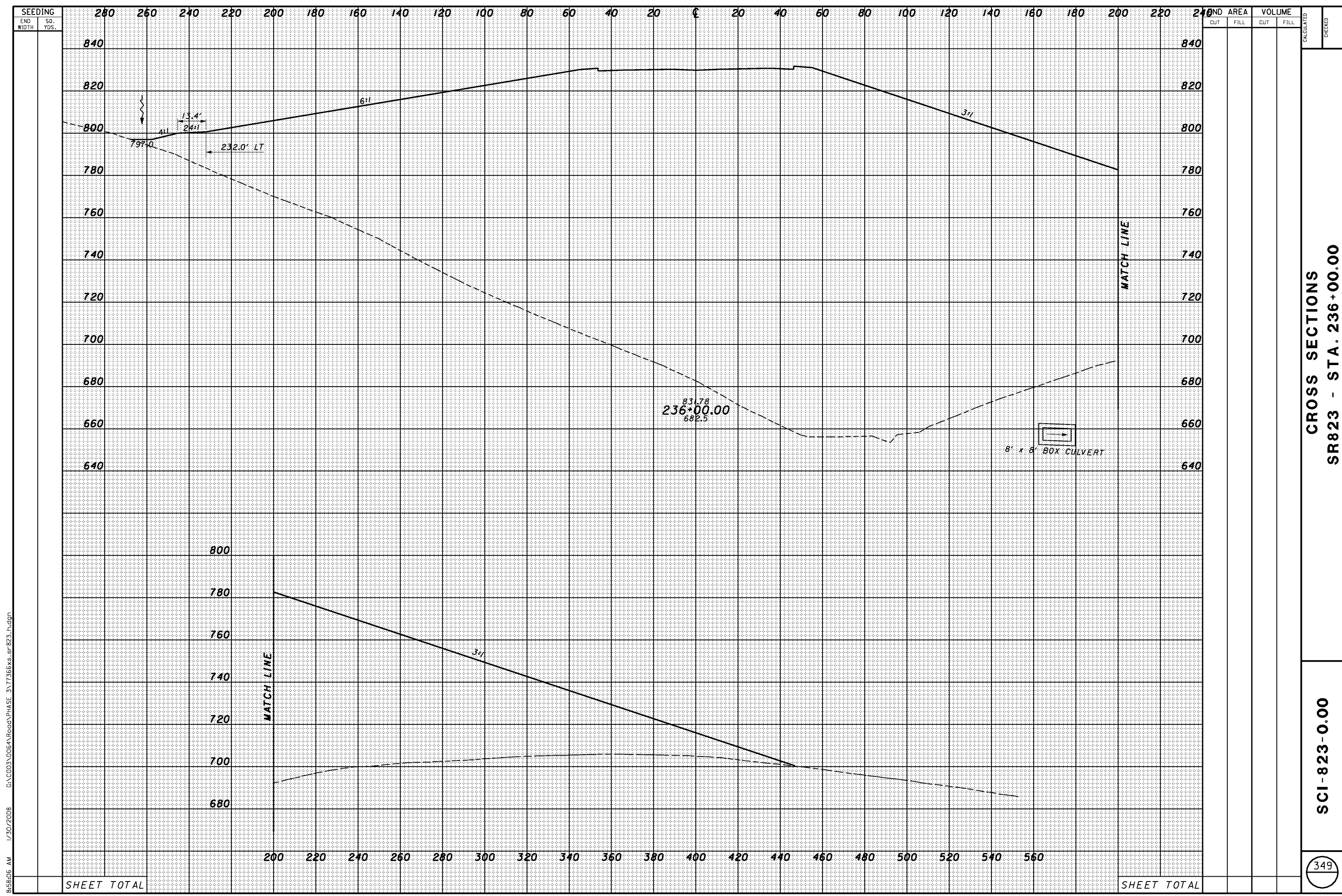
SCI-823-0.00

348



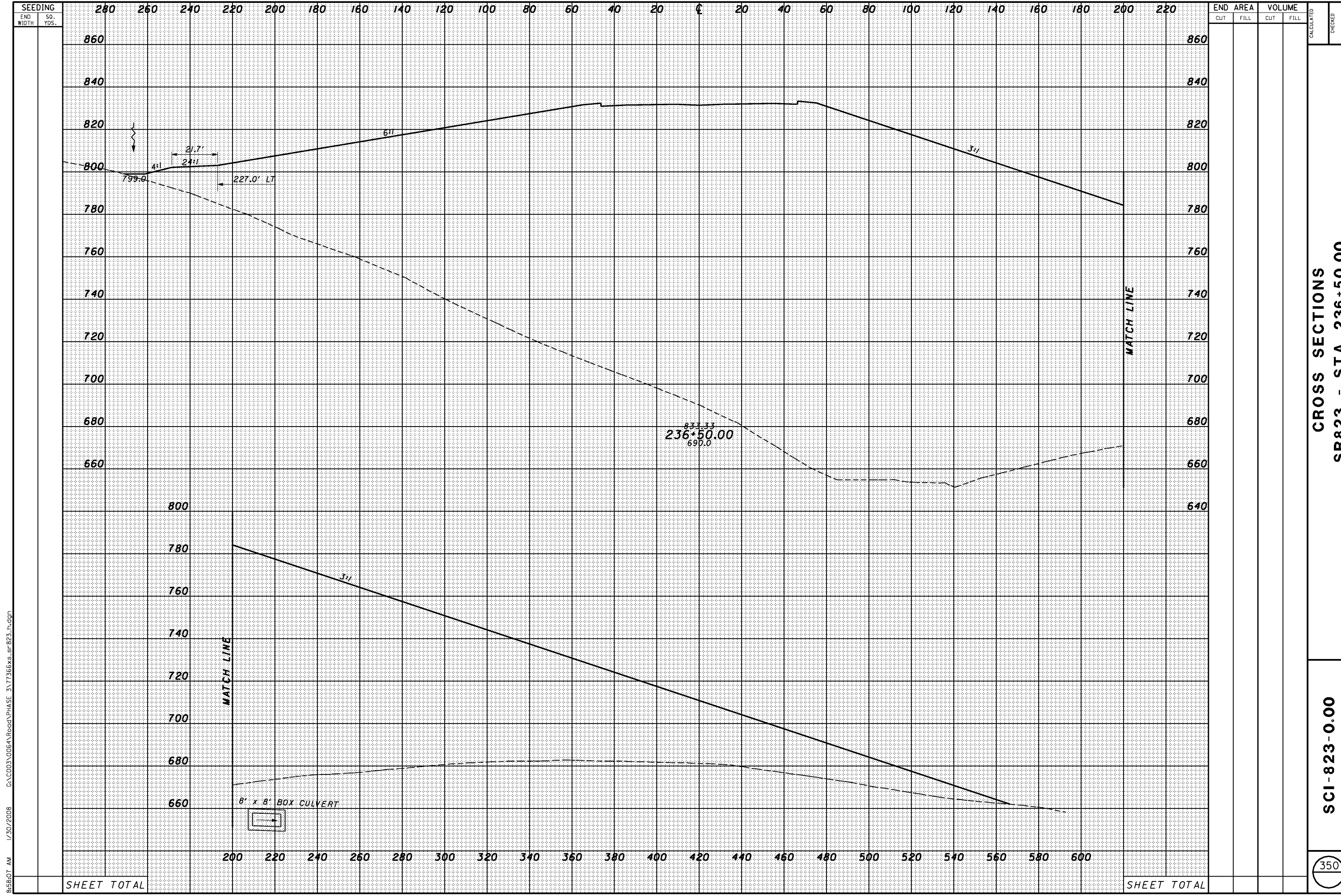
SHEET TOTAL	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	540	560	580	600	SHEET TOTAL
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1/30/2008 G:\C003\0064\Road\PHASE 3\171366\ss-sr-823-h.dgn



CROSS SECTIONS  
SR823 - STA. 236+00.00

SCI-823-0.00



1/30/2008 G:\C003\0064\Road\PHASE 3\T36666x-sr-823\_h.dgn  
 8:58:07 AM

SHEET TOTAL

SHEET TOTAL

END AREA		VOLUME	
CUT	FILL	CUT	FILL

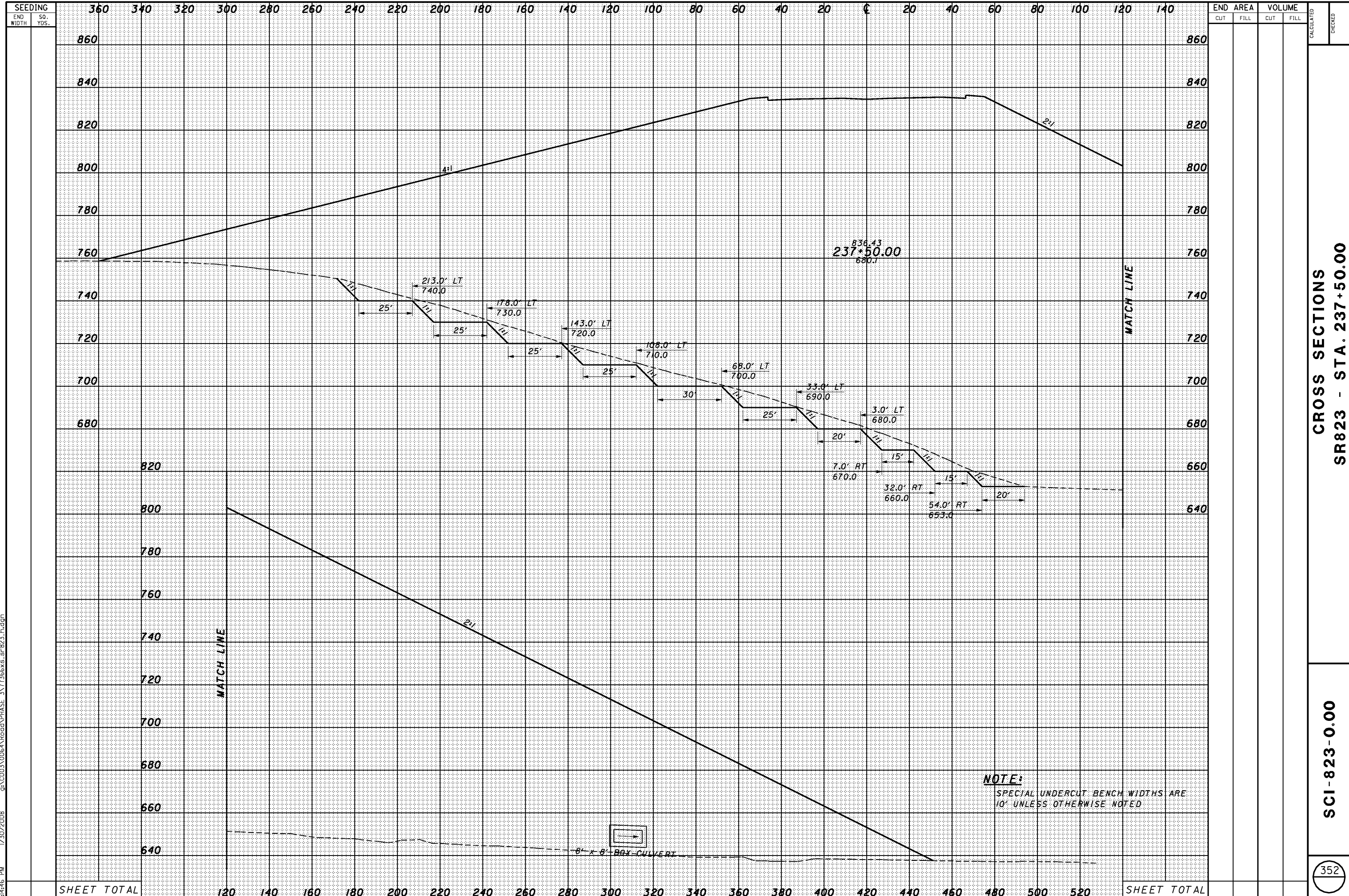
**CROSS SECTIONS**  
**SR823 - STA. 236+50.00**

**SCI-823-0.00**

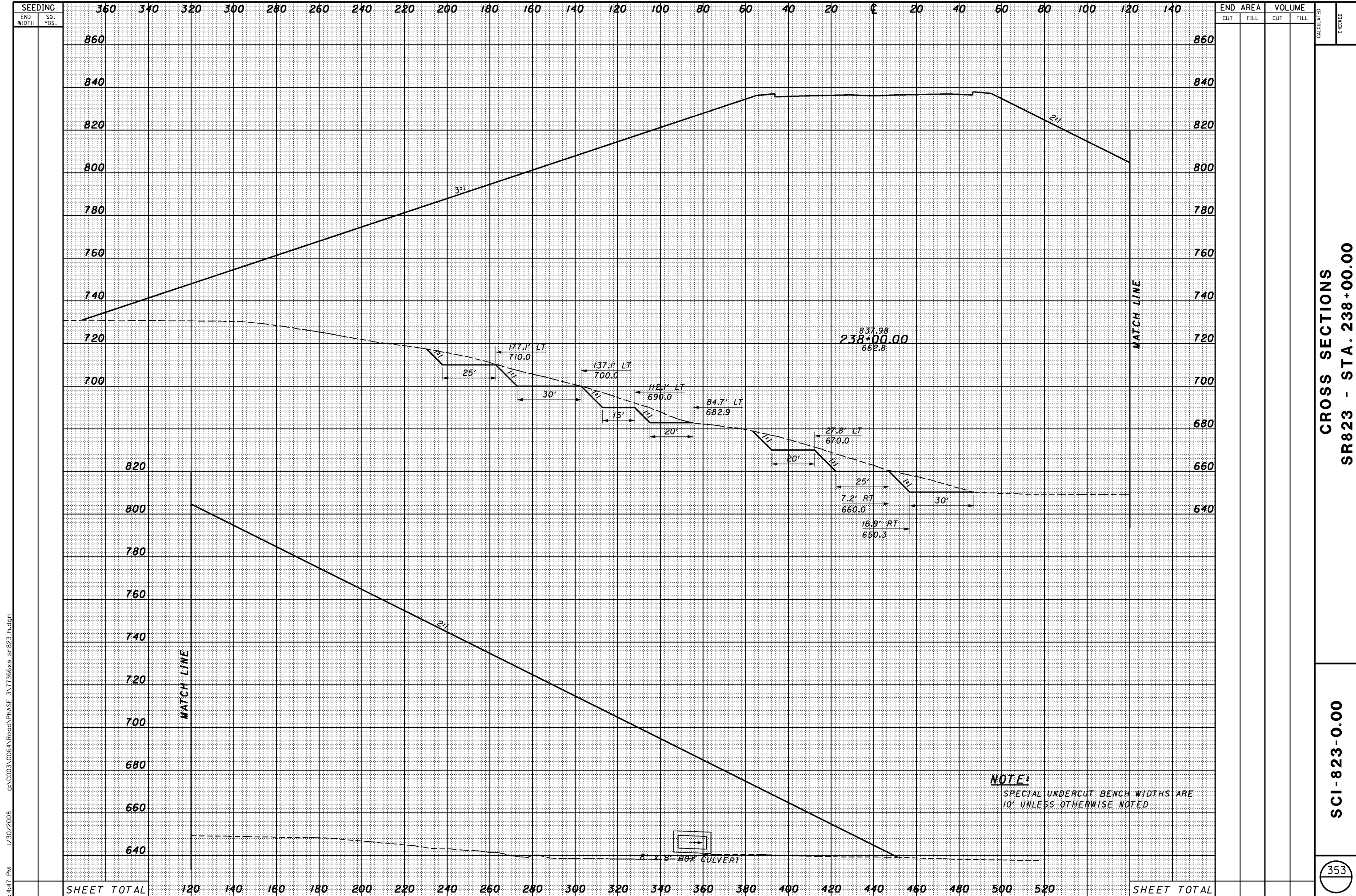
350







1/30/2008 4:46 PM g:\c003\0064\Road\PHASE\_3\T13666xs\_sr823\_h.dgn



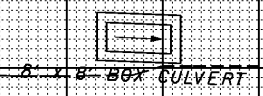
1/30/2008 11:41:47 PM g:\c003\0064\Road\PHASE\_3\T13666xs-sr-823\_h.dgn

**CROSS SECTIONS**  
**SR823 - STA. 238+00.00**

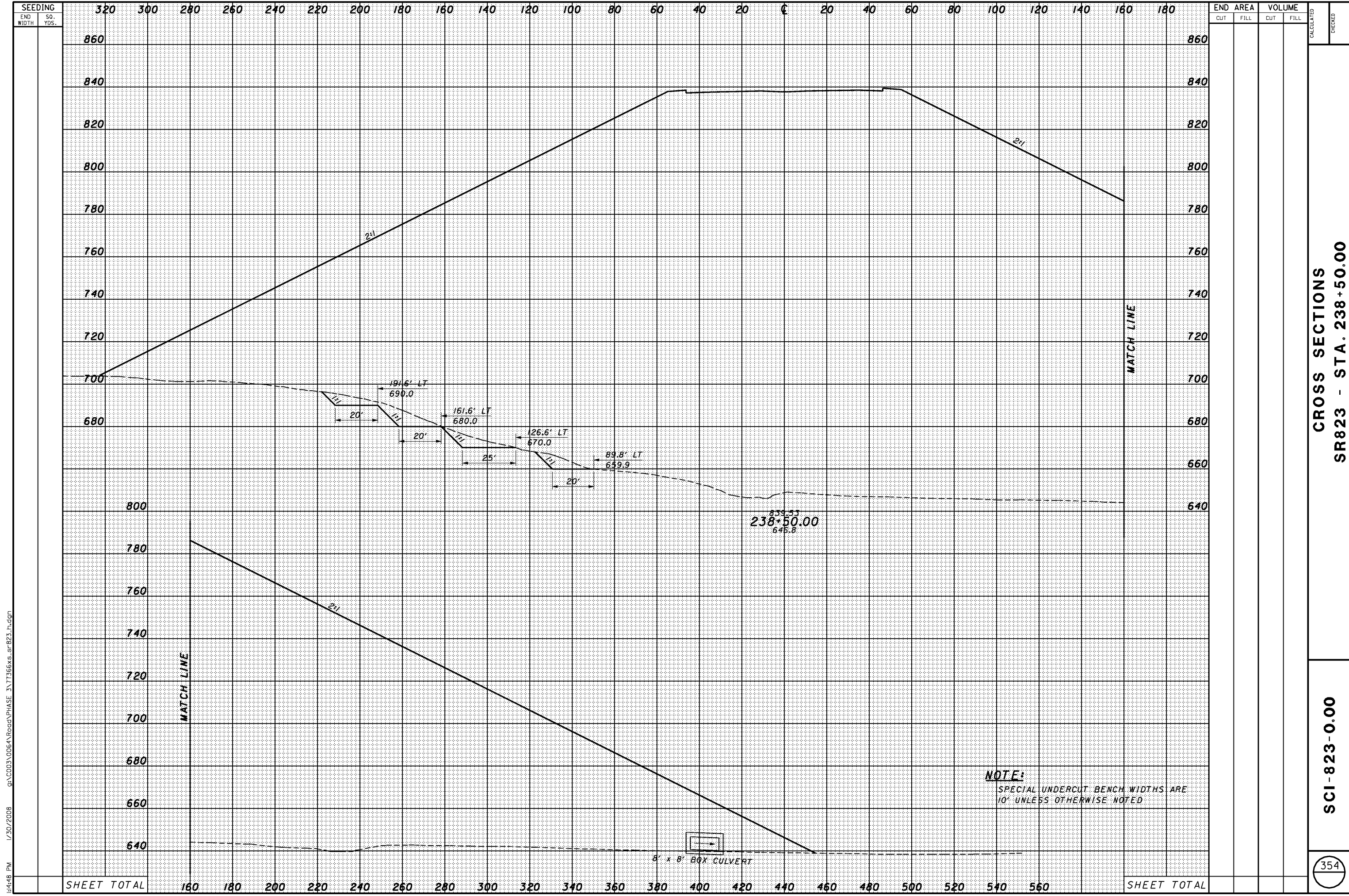
**SCI-823-0.00**

353

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







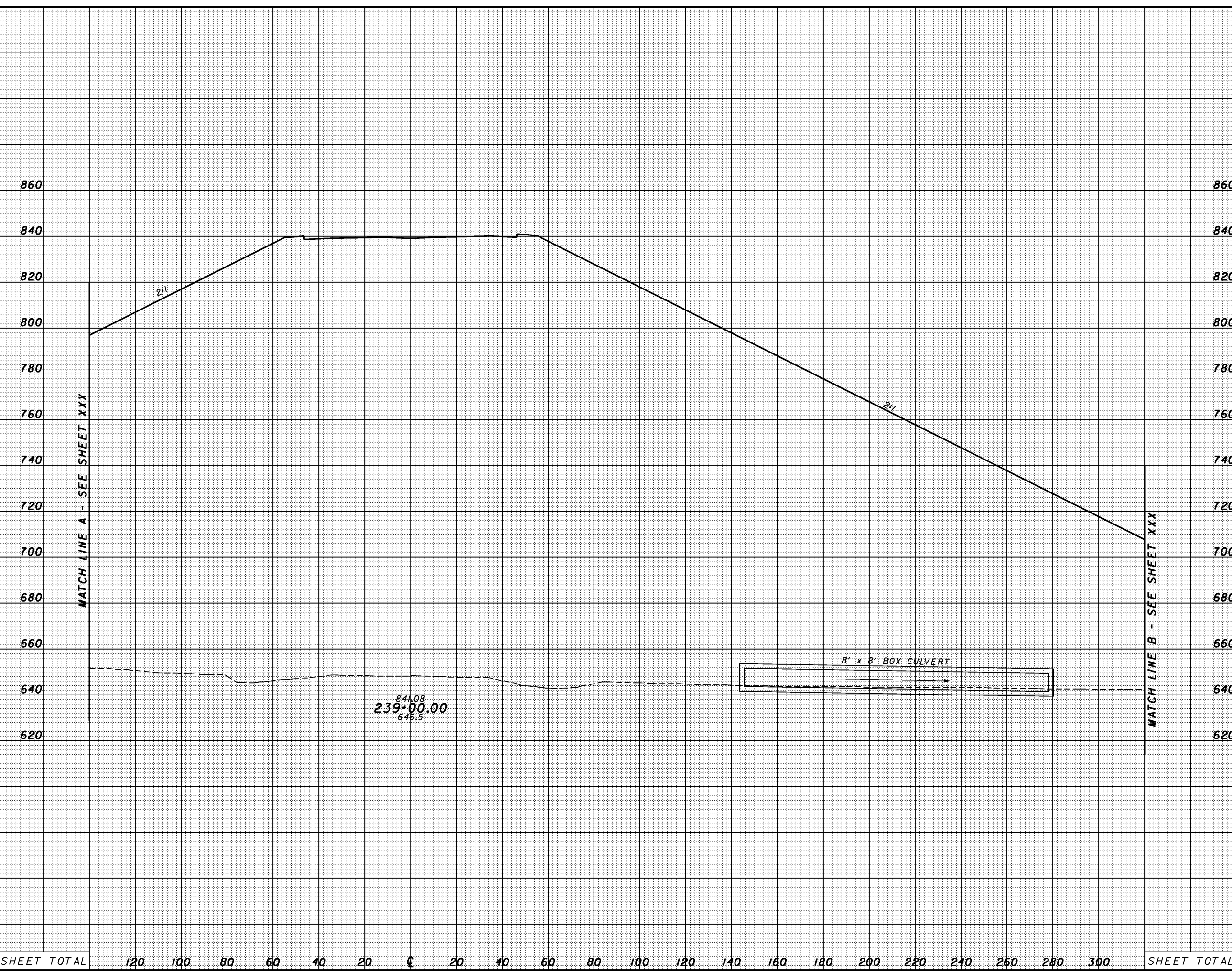
1/30/2008 4:48 PM g:\c003\0064\Road\PHASE 3\T13666xs-sr823\_h.dgn



1/30/2008 4:50 PM g:\c003\0064\Road\PHASE 3\171366\ss-sr-823\_h.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



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

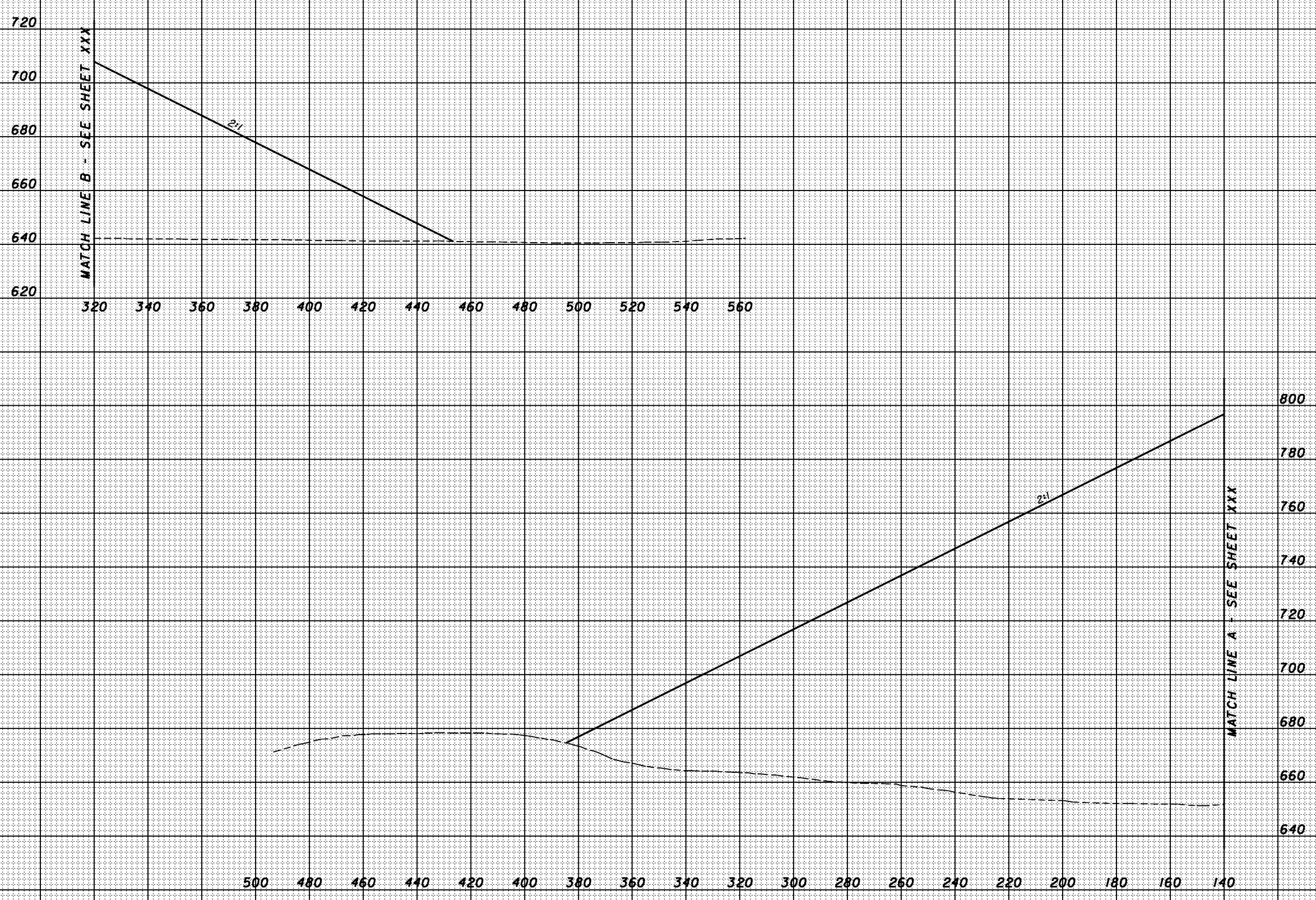
CROSS SECTIONS  
SR823 - STA. 239+00.00

SCI-823-0.00

1/30/2008 4:57 PM g:\c003\0064\Road\PHASE 3\T1366xs\_sr823\_h.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL

SHEET TOTAL

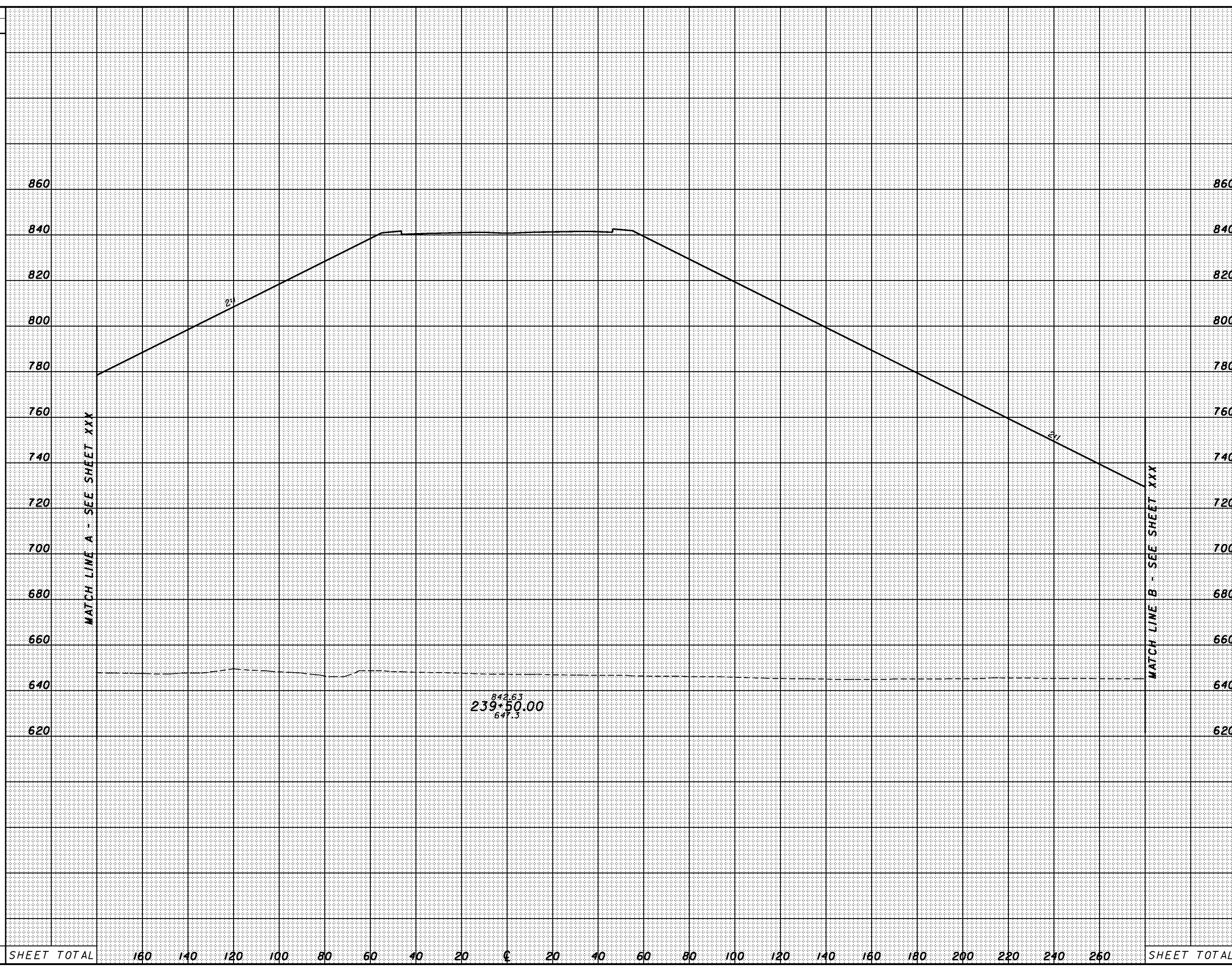
CROSS SECTIONS  
SR823 - STA. 239+00.00

SCI-823-0.00

1/30/2008 4:50 PM g:\c003\0064\Road\PHASE 3\T13666xs\_sr-823\_h.dgn

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. 239+50.00

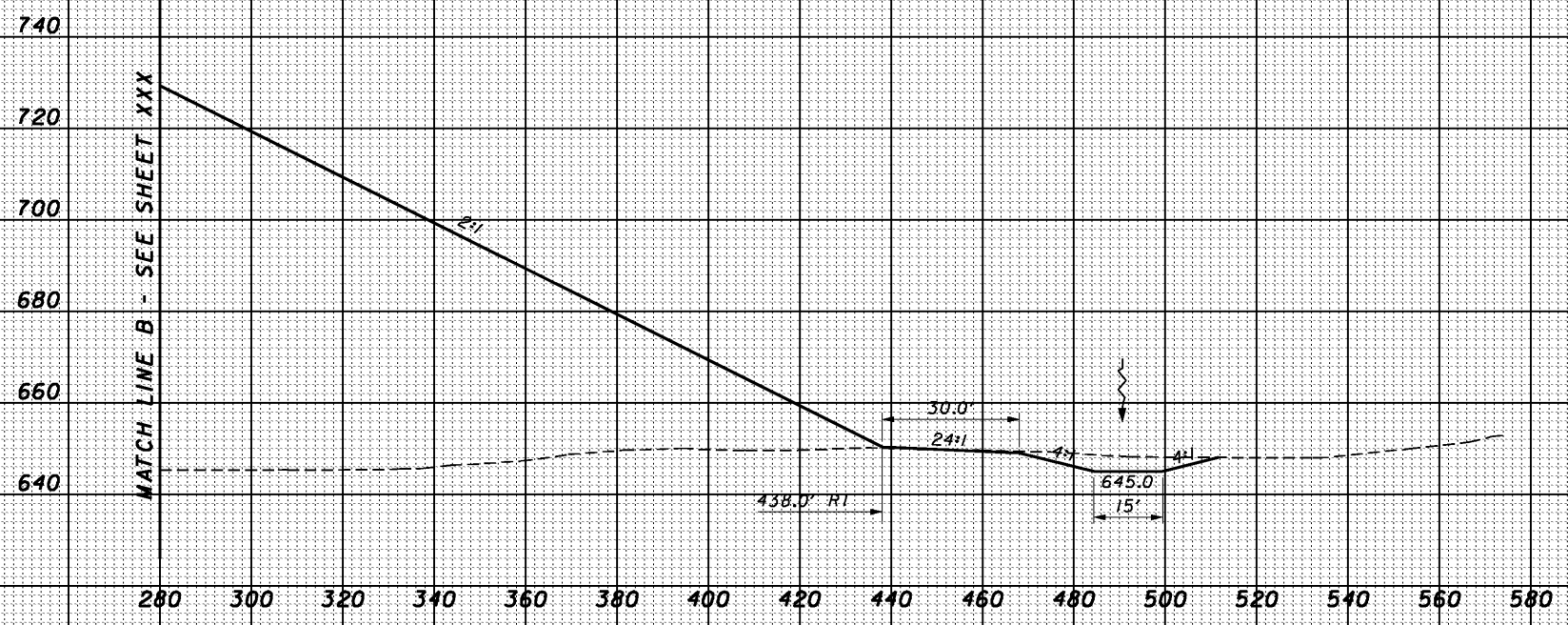
SCI-823-0.00



1/30/2008 4:58 PM g:\c003\0064\Road\PHASE 3\171366\ss\_sr823\_h.dgn

SEEDING	
END WIDTH	SO. YDS.

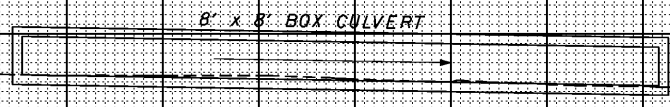
END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



280 300 320 340 360 380 400 420 440 460 480 500 520 540 560 580

780  
760  
740  
720  
700  
680  
660  
640

540 520 500 480 460 440 420 400 380 360 340 320 300 280 260 240 220 200 180



8' x 8' BOX CULVERT

MATCH LINE B - SEE SHEET XXX

MATCH LINE A - SEE SHEET XXX

SHEET TOTAL

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 239+50.00

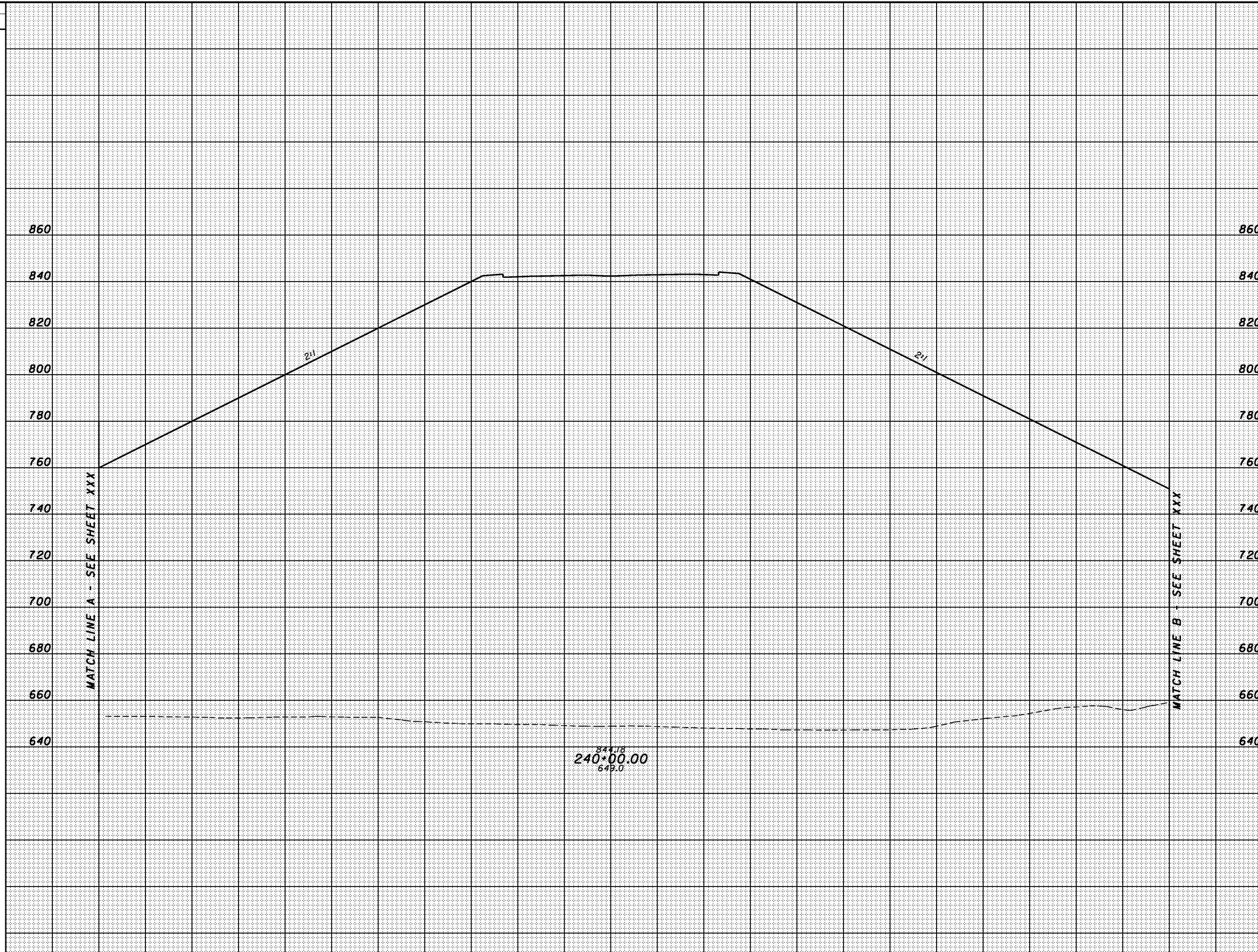
SCI-823-0.00



1/30/2008 g:\C003\0064\Road\PHASE 3\T13666xs\_sr-823\_h.dgn 11:45:11 PM

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



844.18  
240+00.00  
649.0

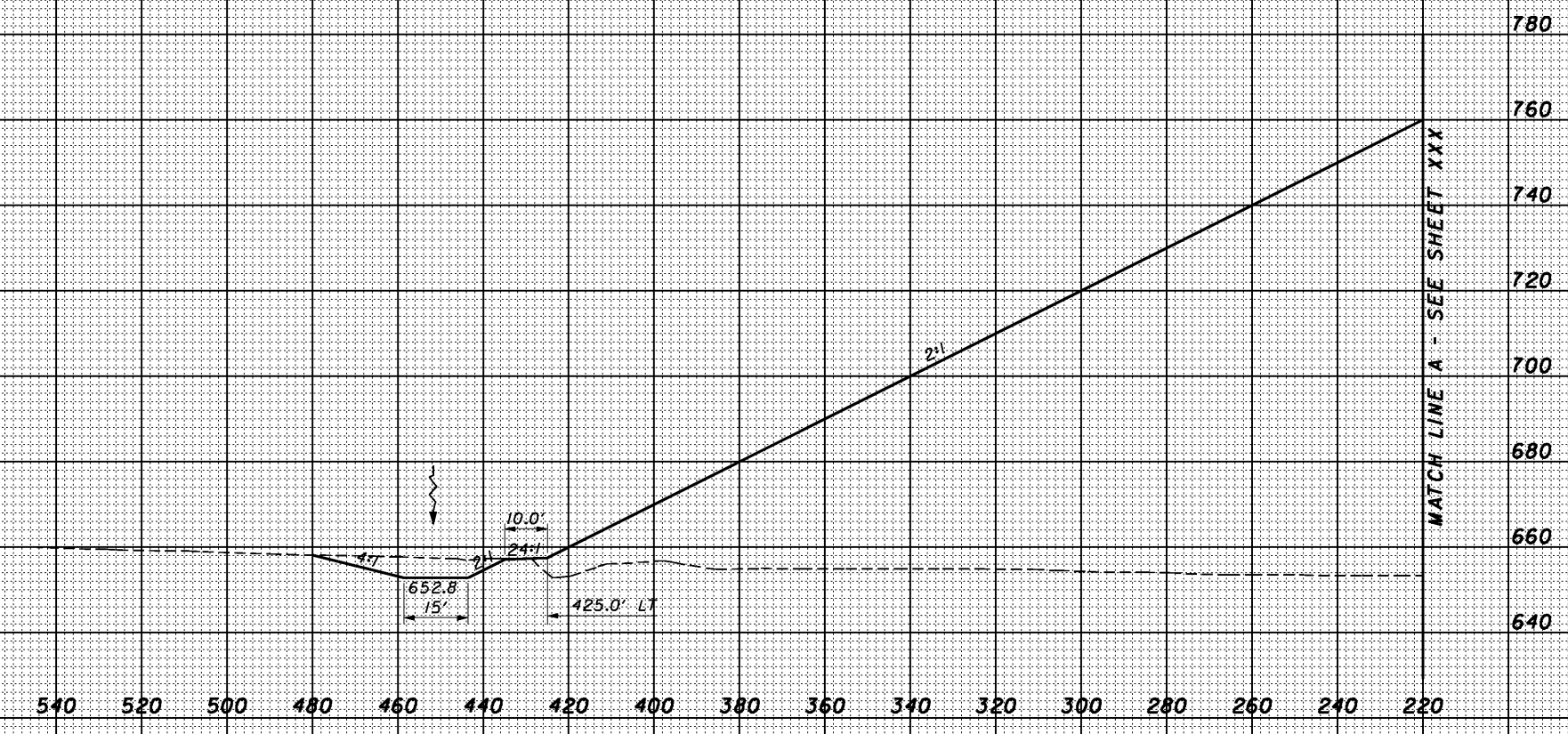
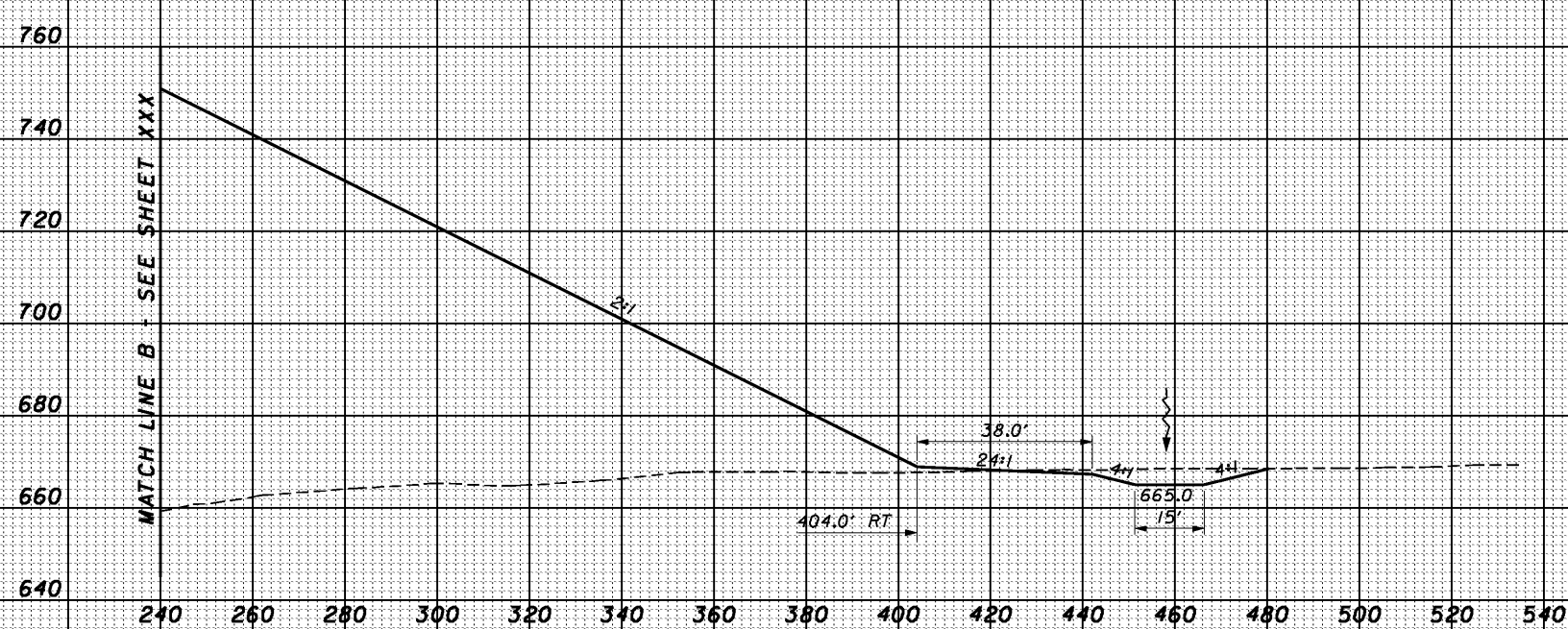
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 240+00.00

SCI-823-0.00

SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



SHEET TOTAL

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 240+00.00

SCI-823-0.00

360

1/30/2008 4:59 PM g:\c003\0064\Road\PHASE 3\T1366xs\_sr823\_h.dgn

1/30/2008 g:\C003\0064\Road\PHASE 3\T13666s-sr-823\_h.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. 240+50.00

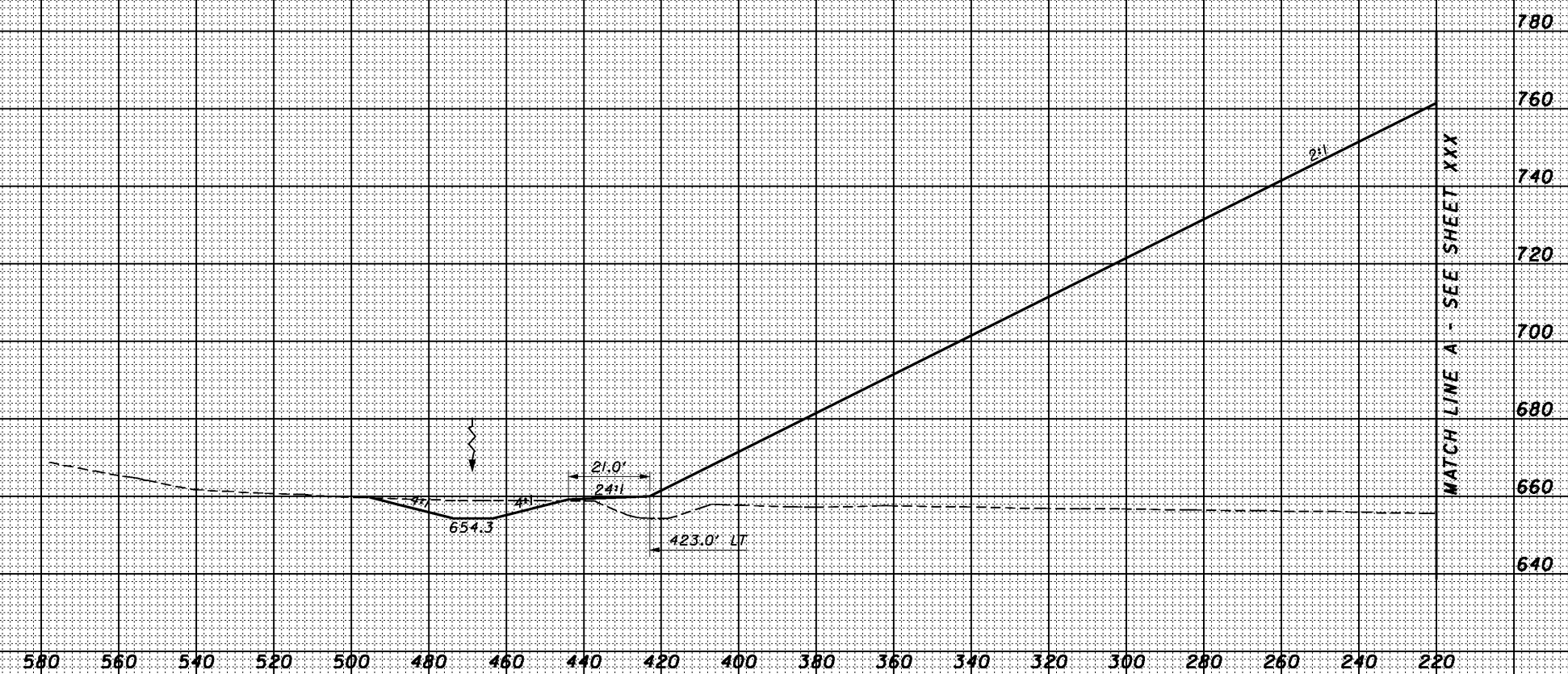
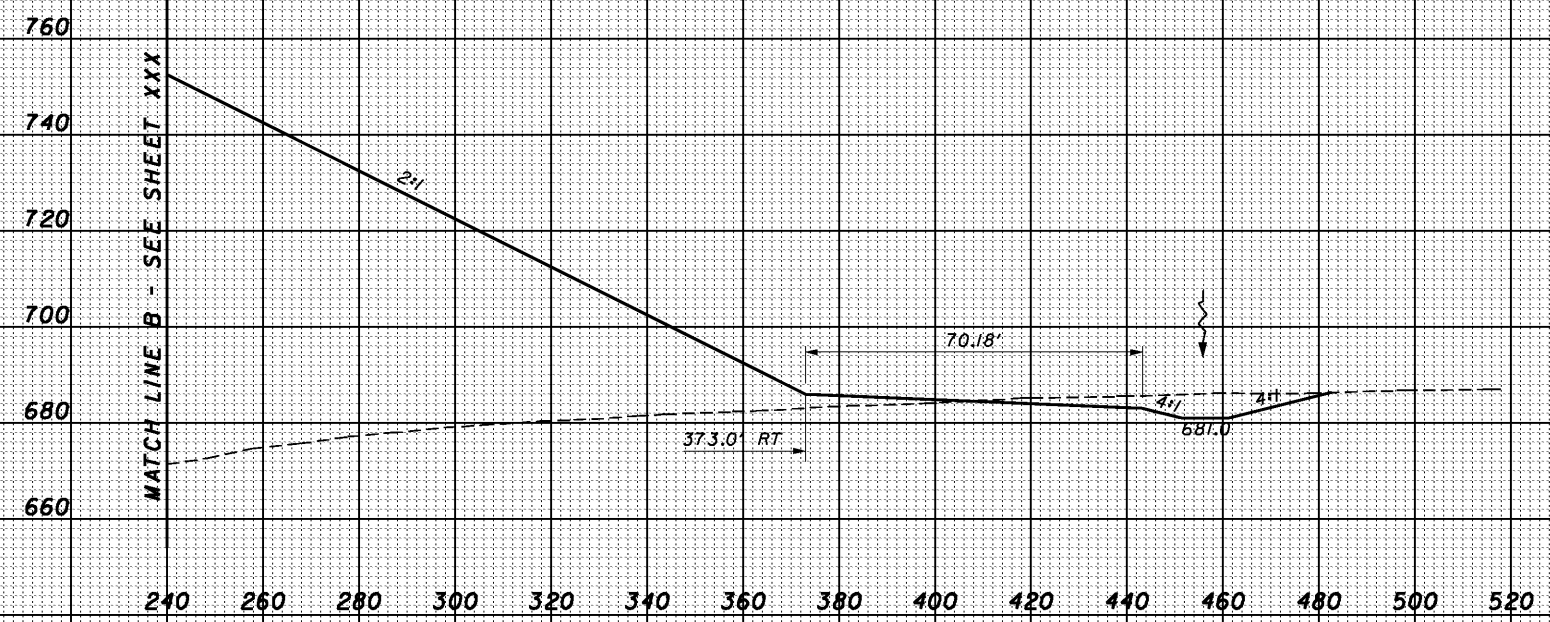
SCI-823-0.00



1/30/2008 4:54:00 PM g:\c003\0064\Road\PHASE 3\171366xs\_sr823\_h.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 240+50.00

SCI-823-0.00

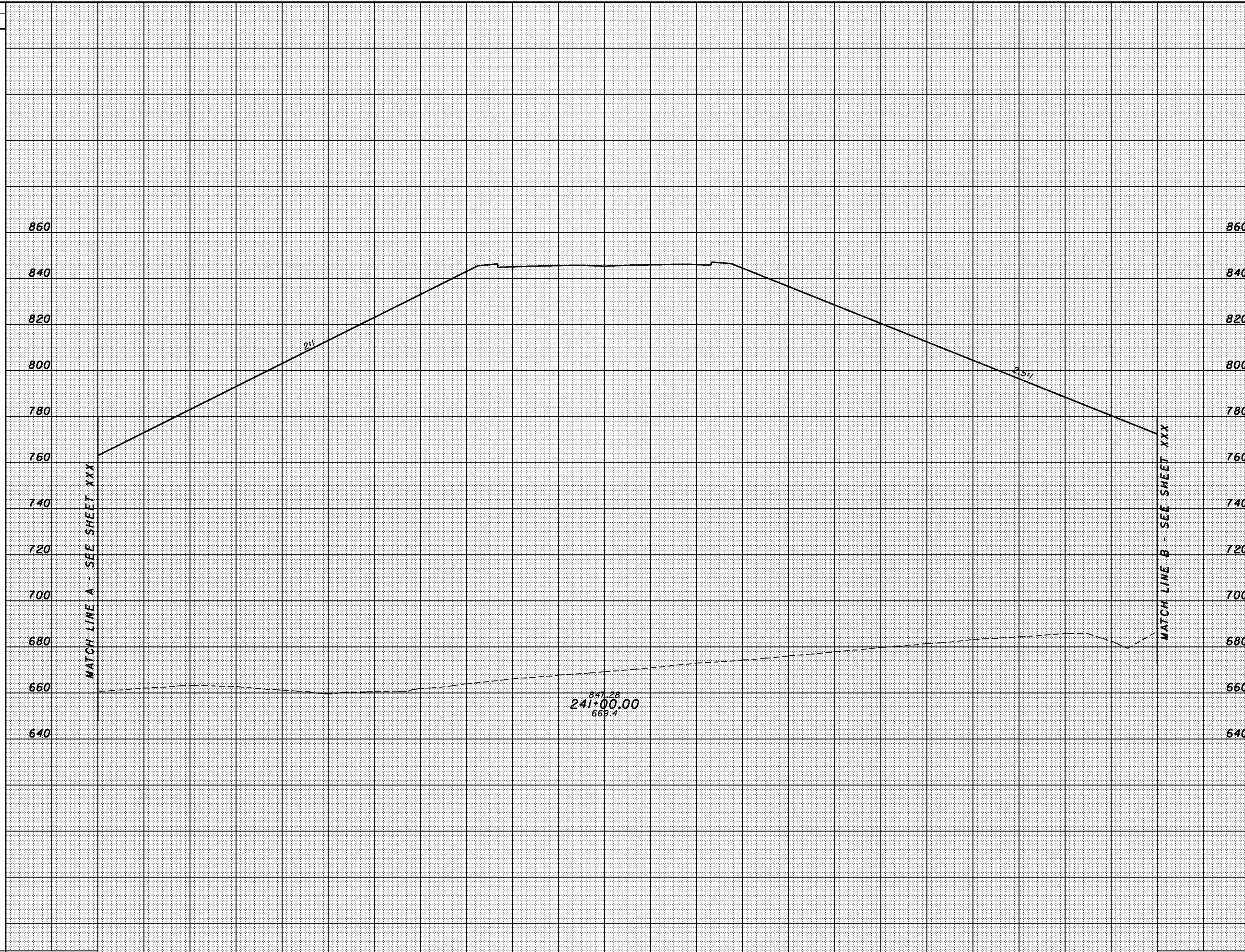
362



1/30/2008 g:\C003\0064\Road\PHASE 3\171366xk-sr-823\_h.dgn 11:45:53 PM

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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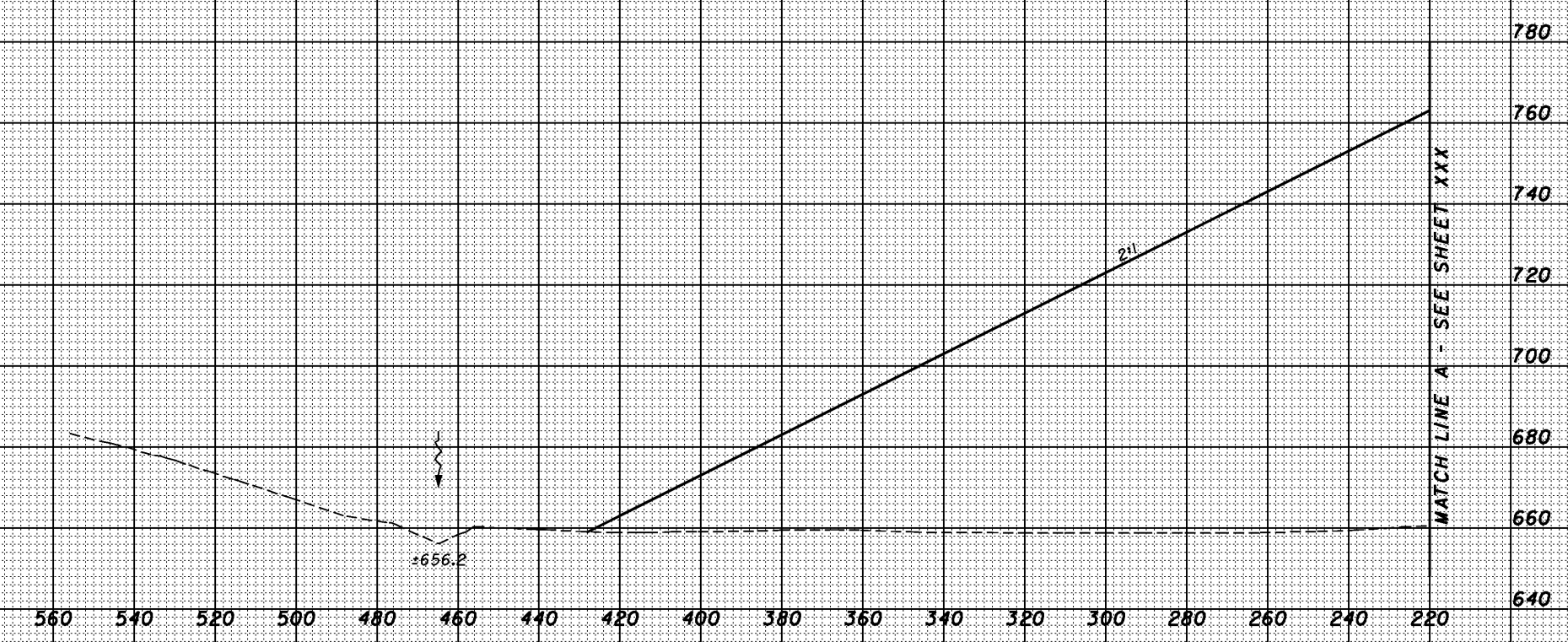
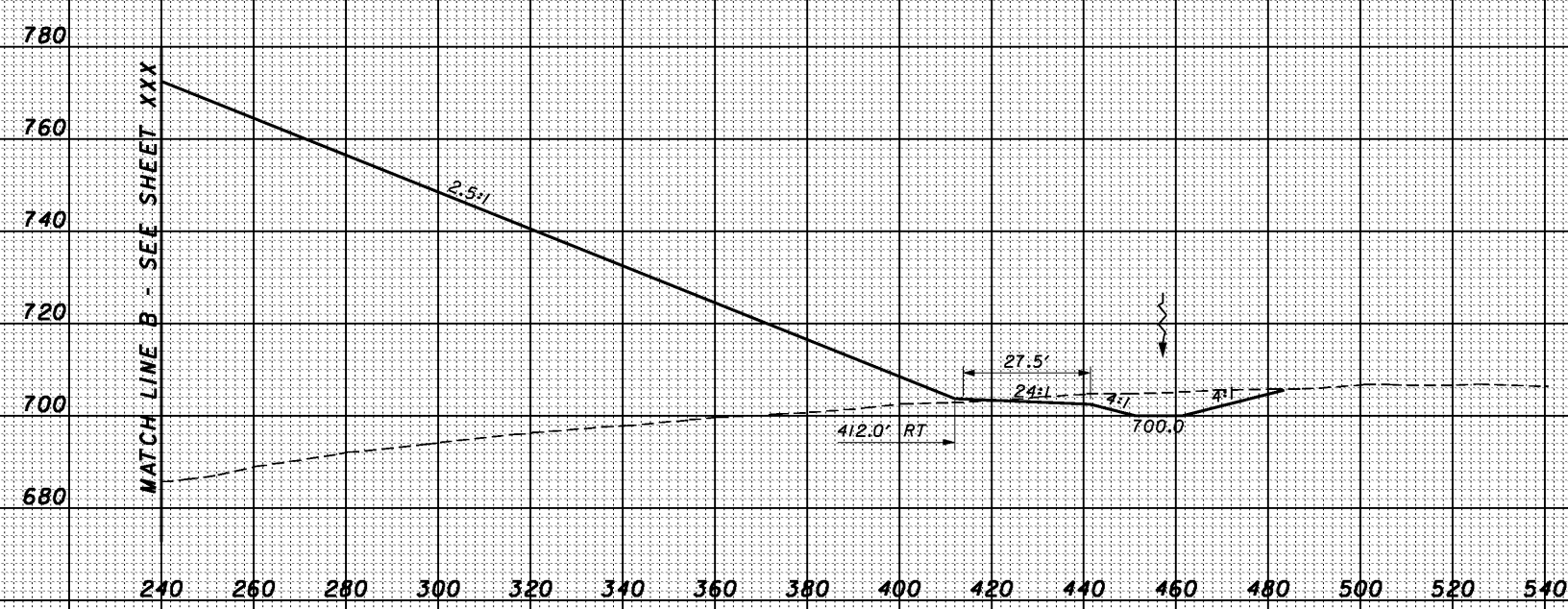
CROSS SECTIONS  
SR823 - STA. 241+00.00

SCI-823-0.00

363

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



SHEET TOTAL

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 241+00.00

SCI-823-0.00

364

1/30/2008 g:\c003\0064\Road\PHASE 3\T13666xs\_sr823\_h.dgn

1/30/2008 4:54 PM g:\c003\0064\Road\PHASE 3\171366xs\_sr823\_h.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. 241+50.00

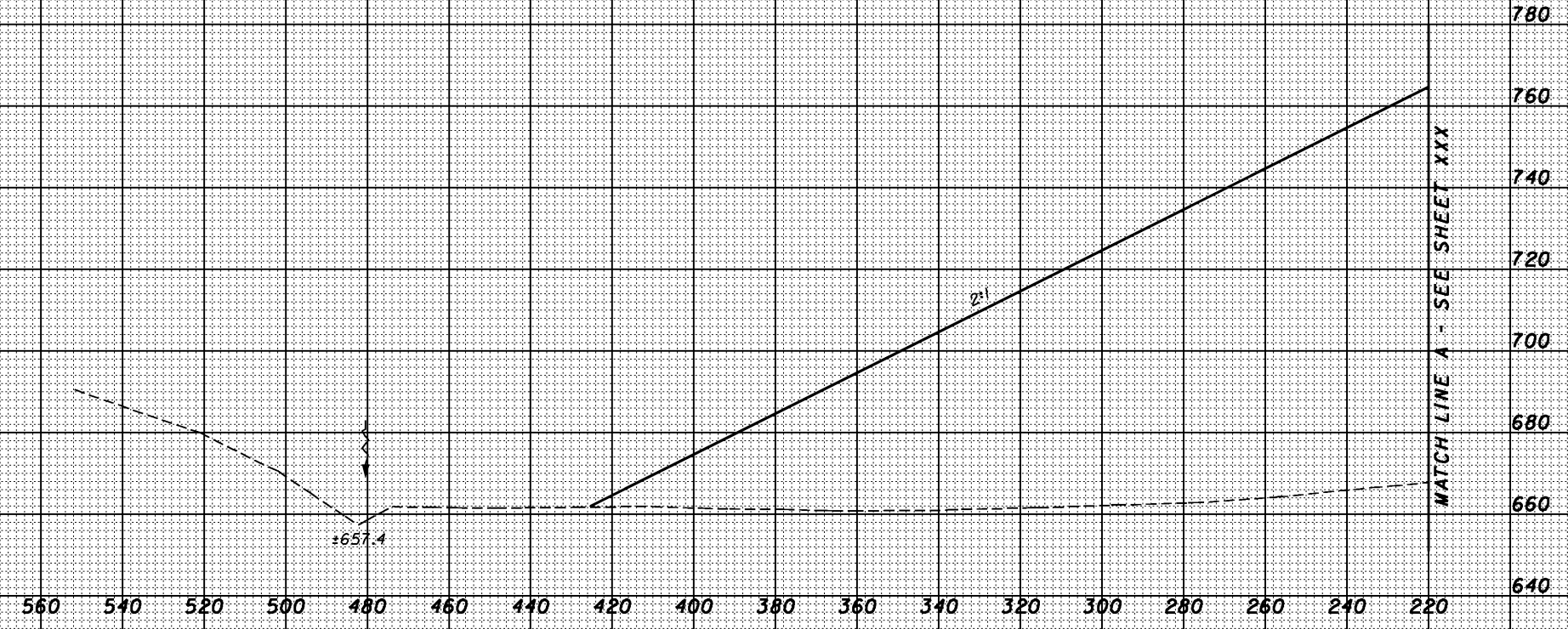
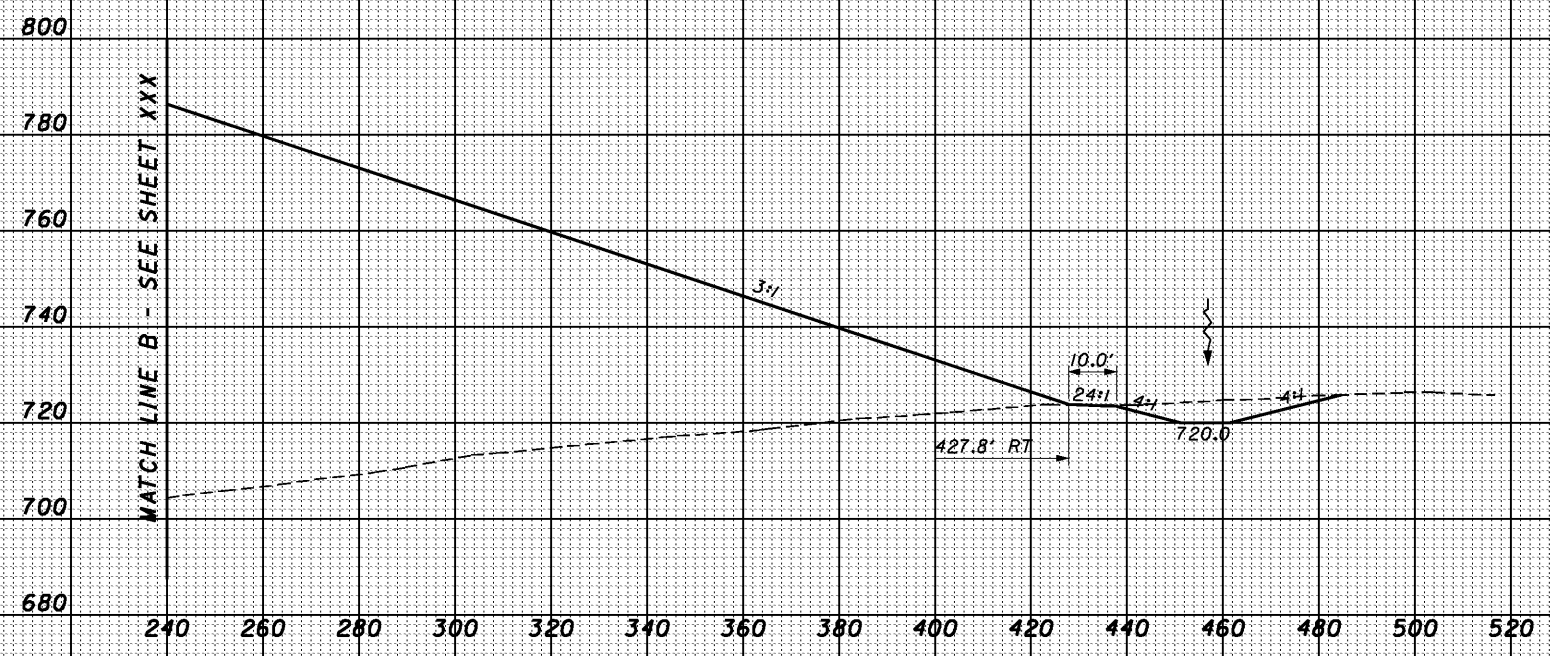
SCI-823-0.00



1/30/2008 4:54:02 PM g:\c003\0064\Road\PHASE 3\171366\ss-sr-823\_h.dgn

SEEDING  
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 241+50.00

SCI-823-0.00

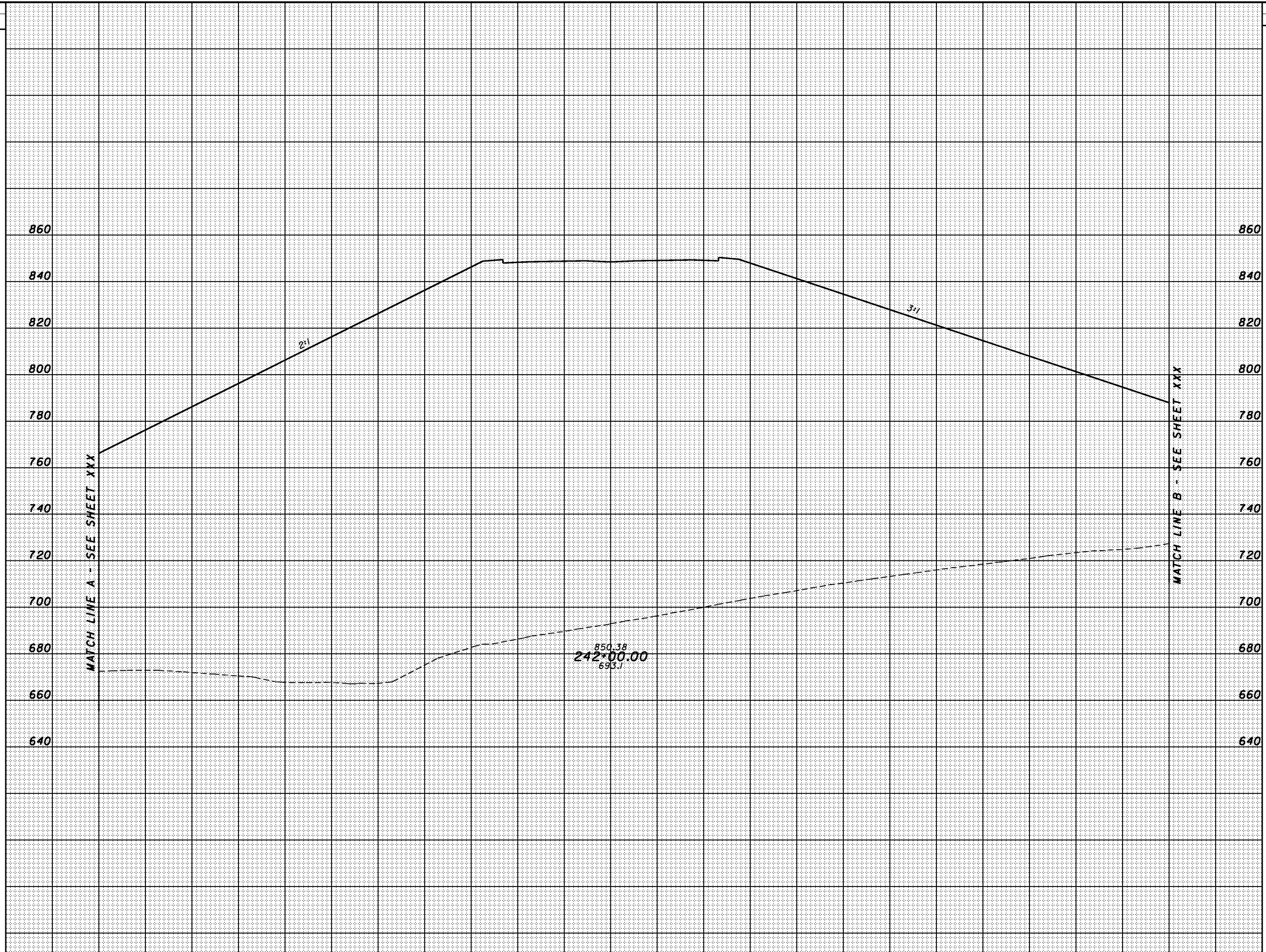
366



1/30/2008 4:55 PM g:\c003\0064\Road\PHASE 3\T1366xs-sr-823\_h.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

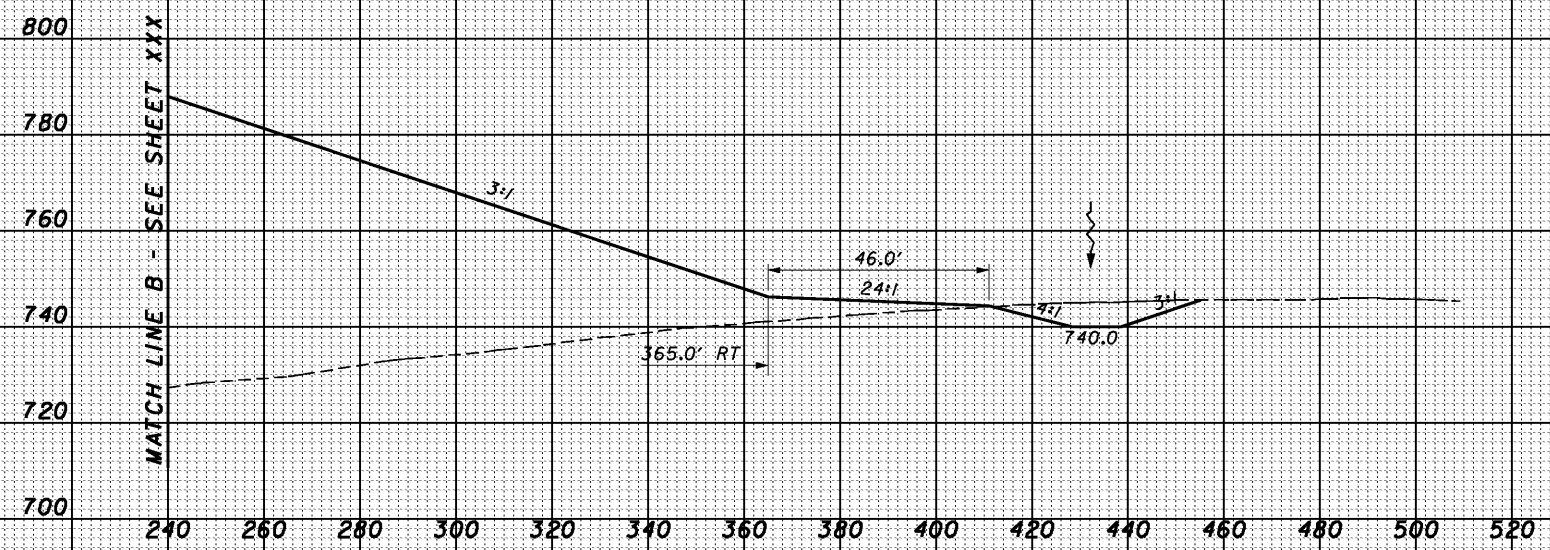
CROSS SECTIONS  
SR823 - STA. 242+00.00

SCI-823-0.00

367

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



MATCH LINE B - SEE SHEET XXX

MATCH LINE A - SEE SHEET XXX

580 560 540 520 500 480 460 440 420 400 380 360 340 320 300 280 260 240 220

780  
760  
740  
720  
700  
680  
660  
640

SHEET TOTAL

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 242+00.00

SCI-823-0.00

368

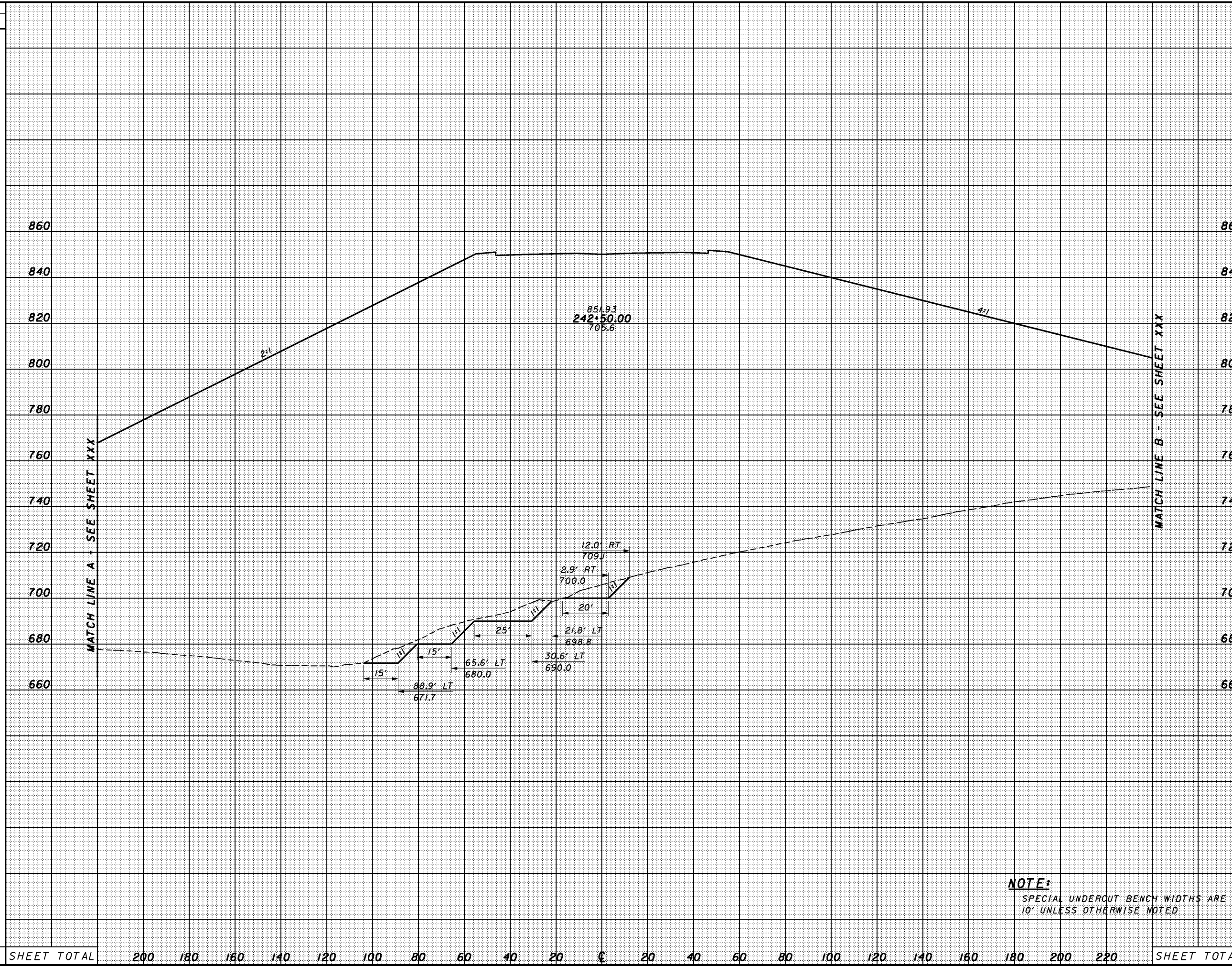
1/30/2008 4:54:03 PM g:\c003\0064\Road\PHASE 3\713666xs\_sr823\_h.dgn

SEEDING  
END SO.  
WIDTH YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

4:43:55 PM 1/30/2008 g:\C003\0064\Road\PHASE 3\171366xk-sr-823\_1.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
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**CROSS SECTIONS**  
**SR823 - STA. 242+50.00**

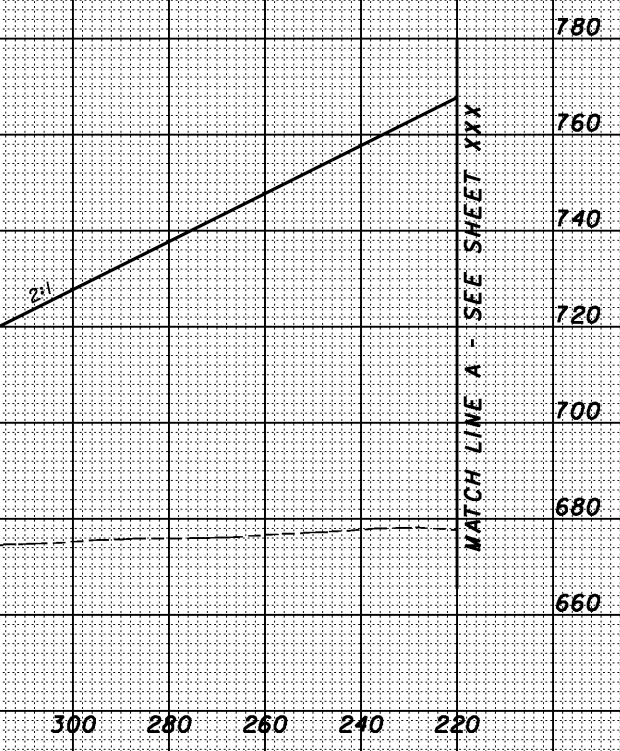
**SCI-823-0.00**



4/4/10 PM 1/30/2008 g:\c003\0064\Road\PHASE 3\171366xs\_sr823\_1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 242+50.00

SCI-823-0.00

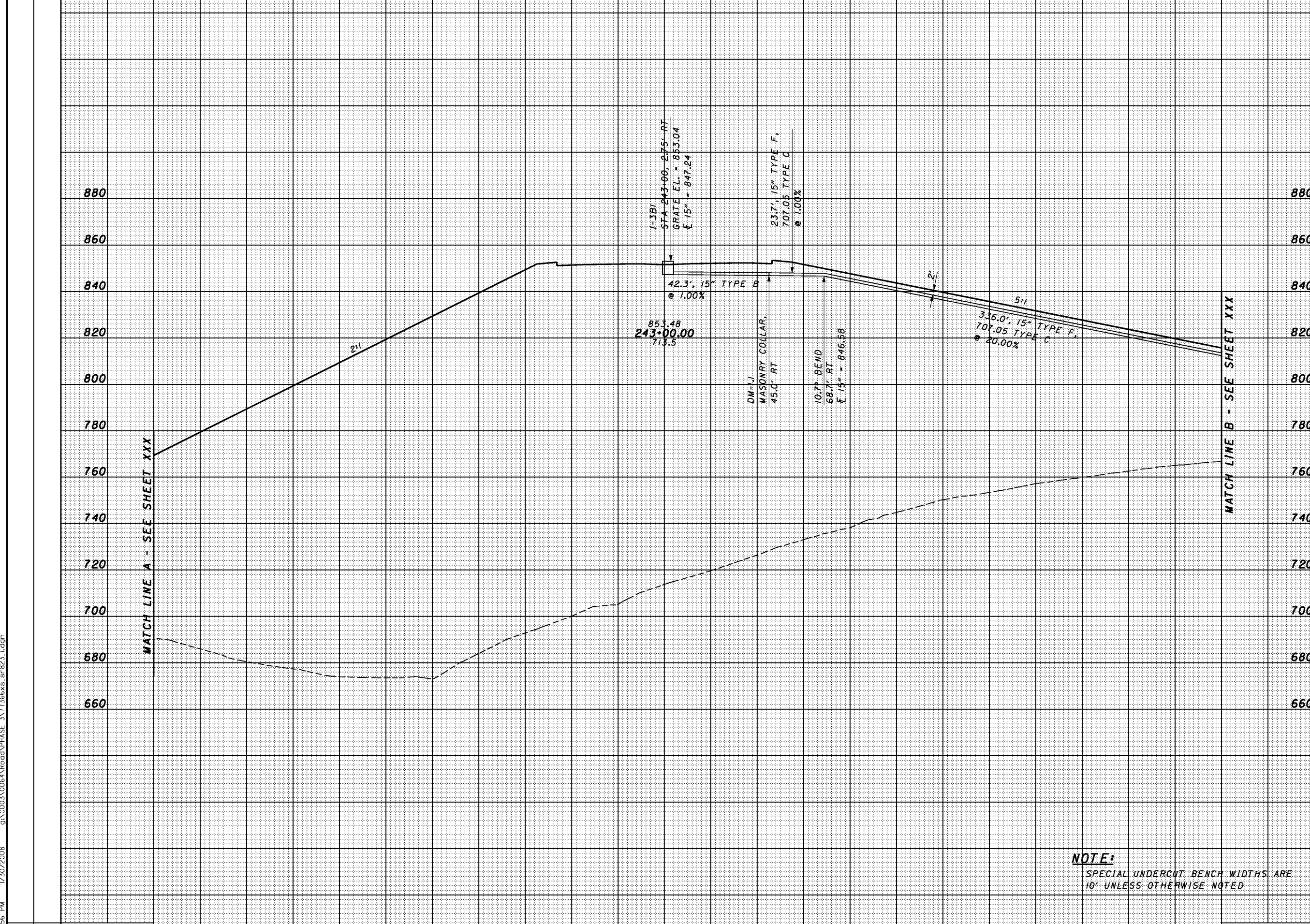
370



443356.PM 1/30/2008 g:\C003\0064\Road\PHASE\_3\171366\ss-sr-823\_1.dgn

SEEDING	
END WIDTH	SO. YDS.

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	
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CROSS SECTIONS  
SR823 - STA. 243+00.00

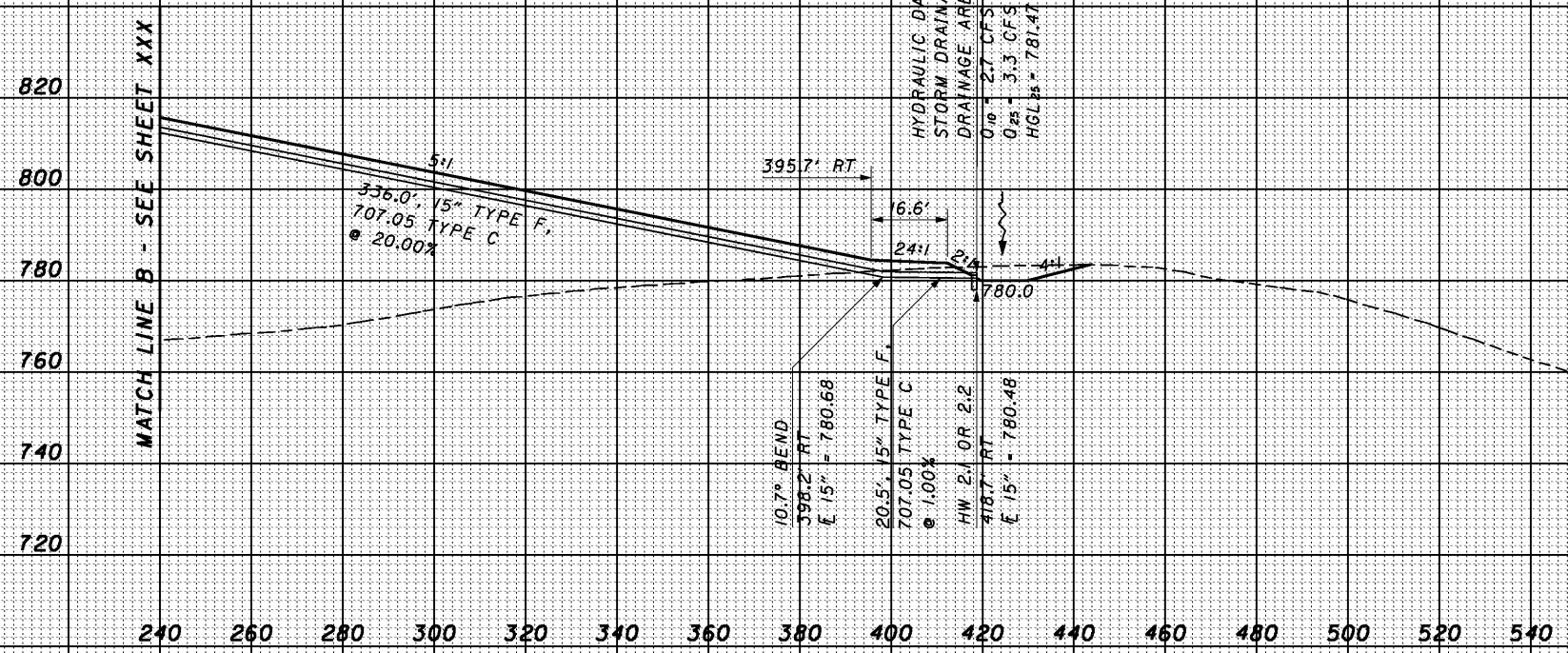
SCI-823-0.00

4/4/4:41 PM 1/30/2008 g:\C003\0064\Road\PHASE\_3\1713666x\_s-r-823\_1.dgn

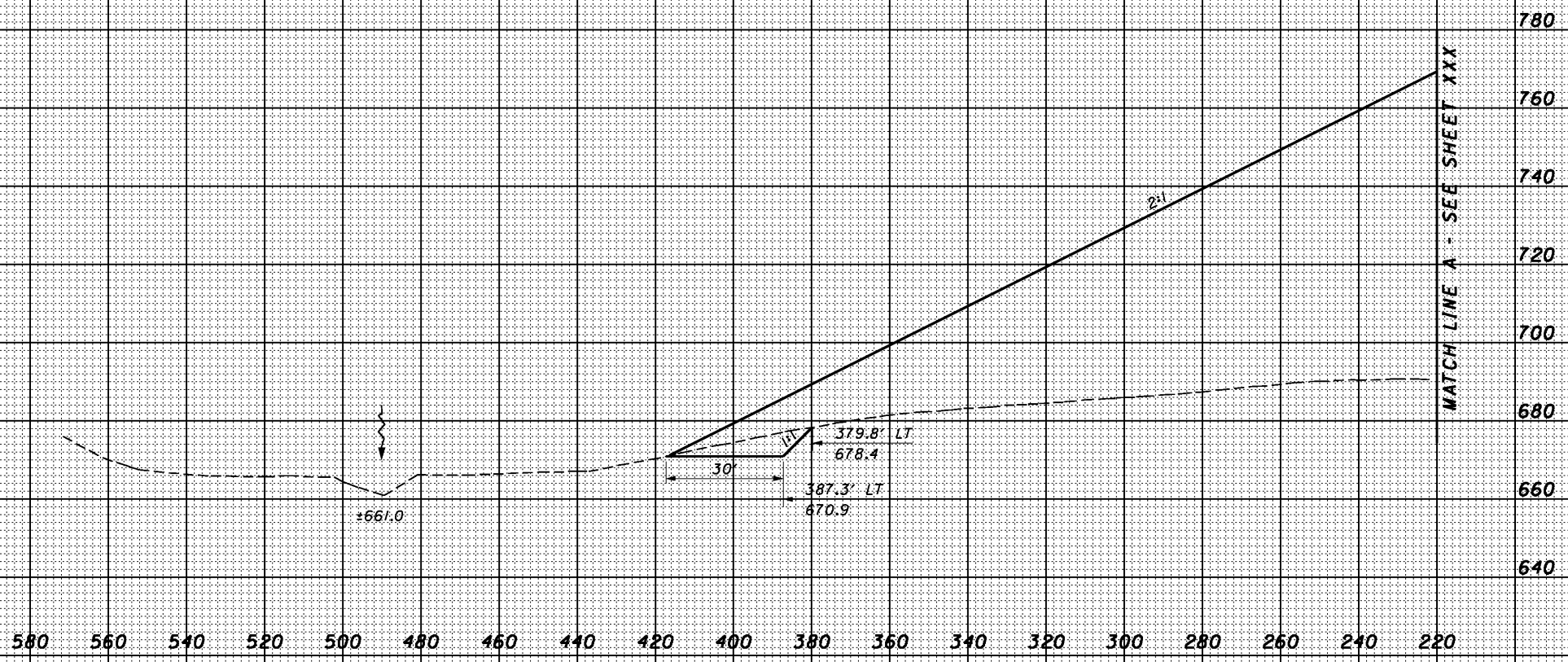
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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240 260 280 300 320 340 360 380 400 420 440 460 480 500 520 540



580 560 540 520 500 480 460 440 420 400 380 360 340 320 300 280 260 240 220

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

SHEET TOTAL

SHEET TOTAL

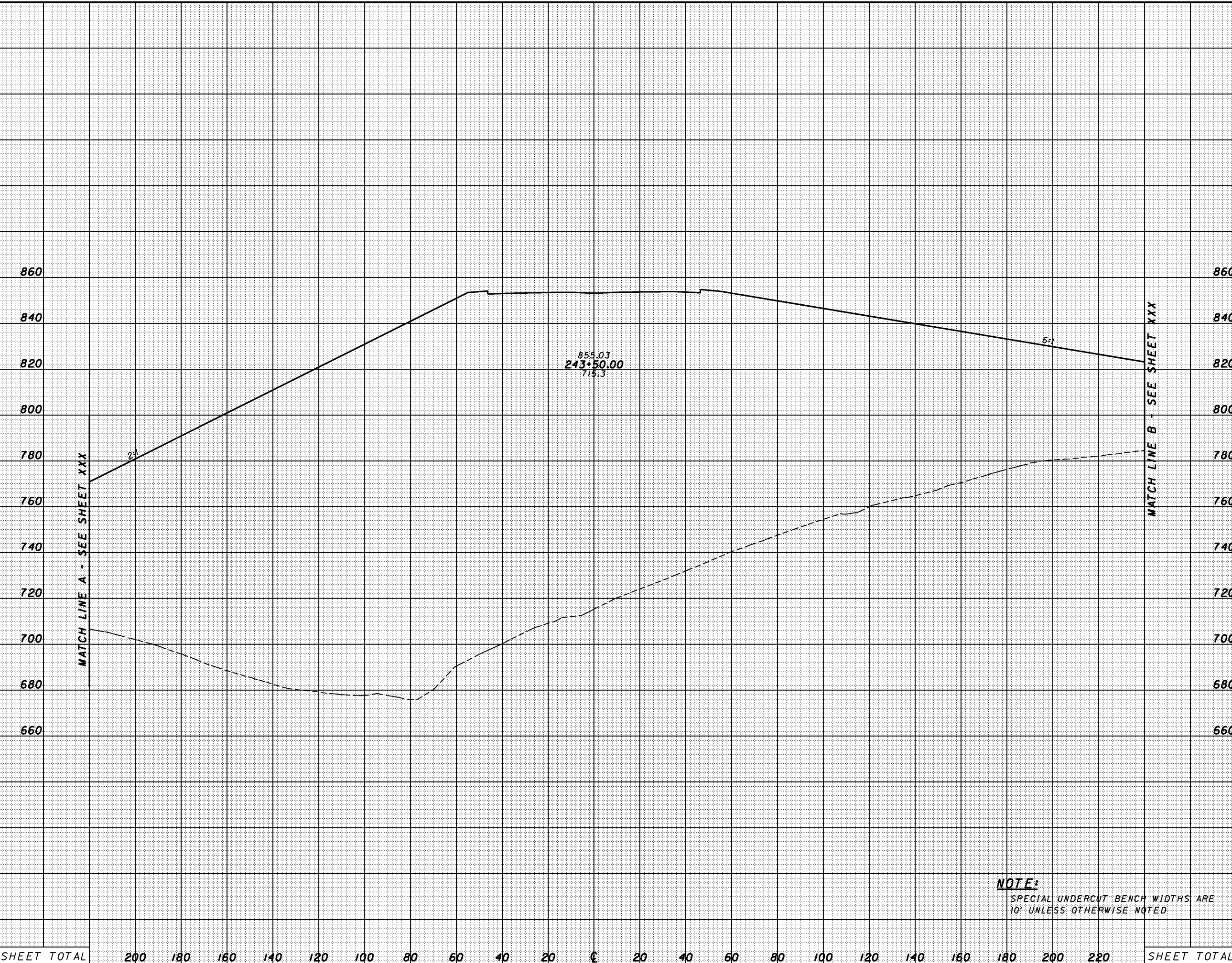
CROSS SECTIONS  
SR823 - STA. 243+00.00

SCI-823-0.00

443357.PM 1/30/2008 g:\C003\0064\Road\PHASE 3\171366xs-sr-823\_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

CROSS SECTIONS  
SR823 - STA. 243+50.00

SCI-823-0.00

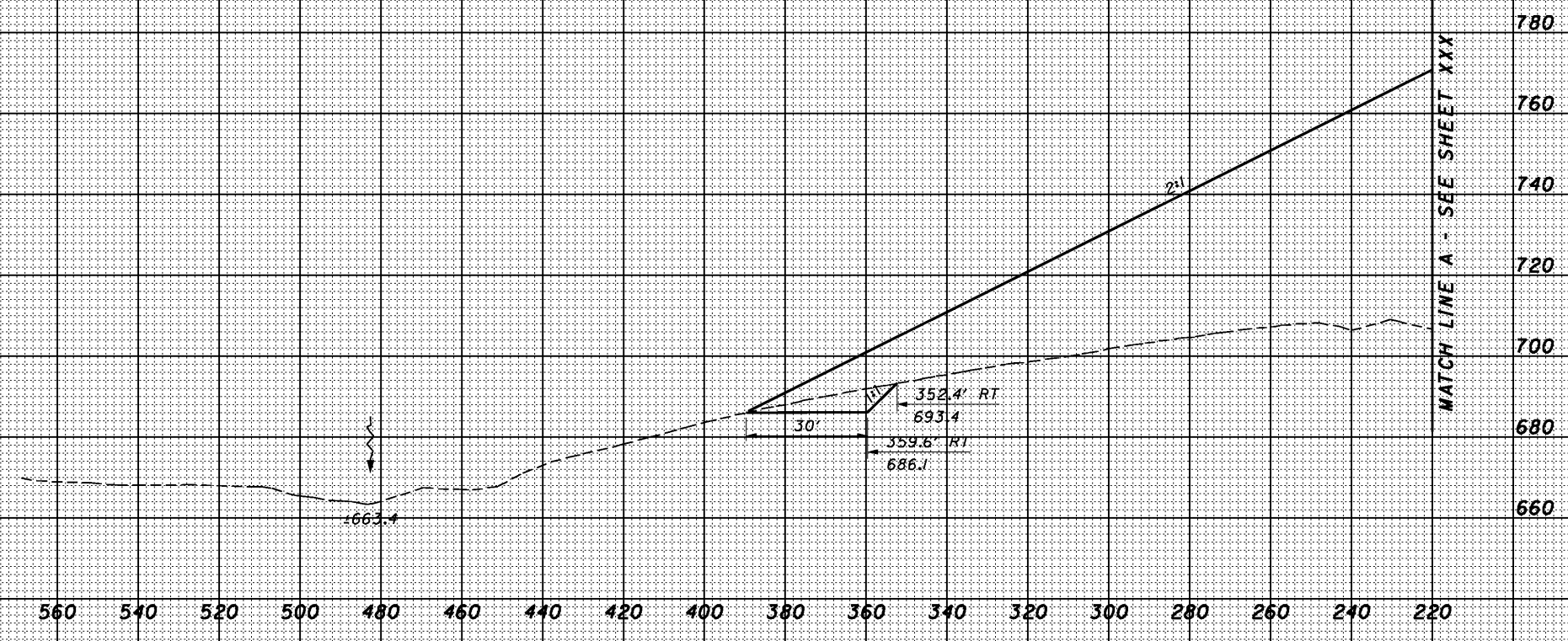
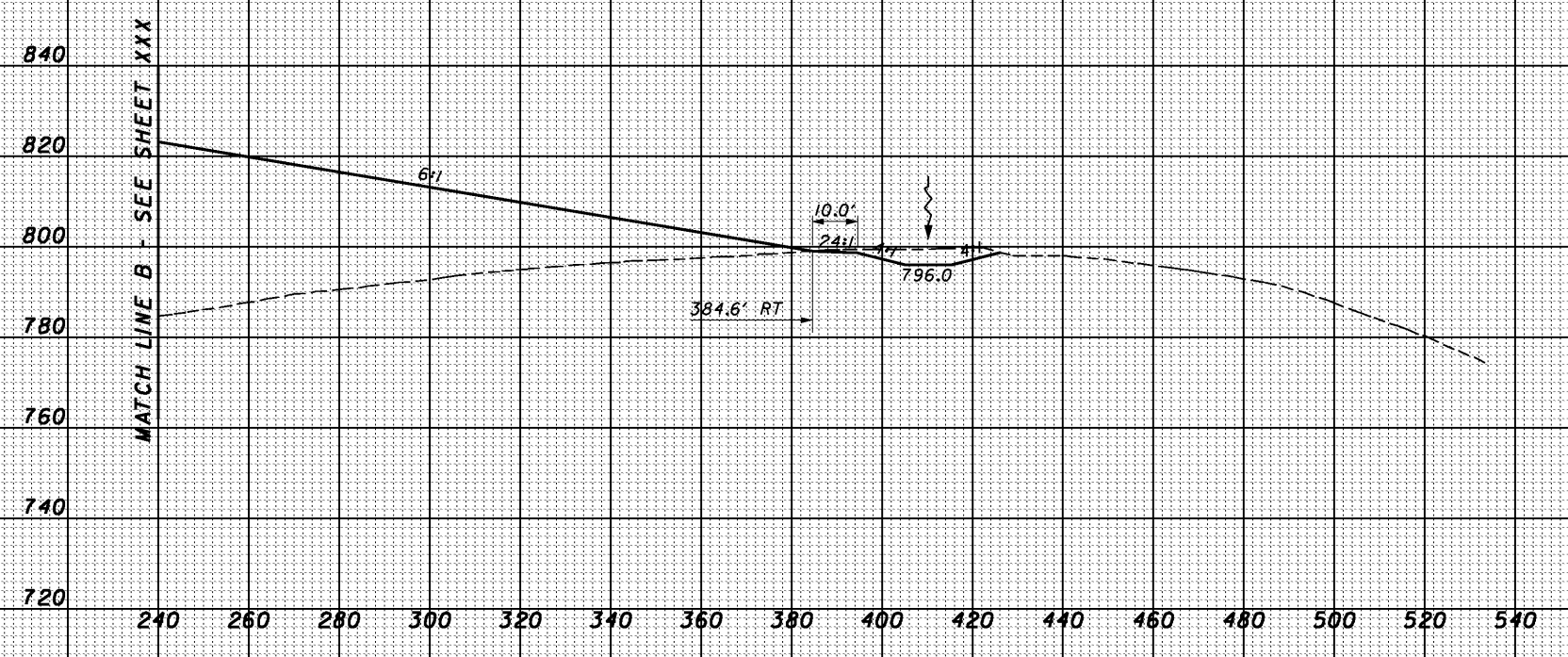


4/4/12 PM 1/30/2008 g:\C003\0064\Road\PHASE 3\171366xs\_sr823\_1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

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

SHEET TOTAL

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 243+50.00

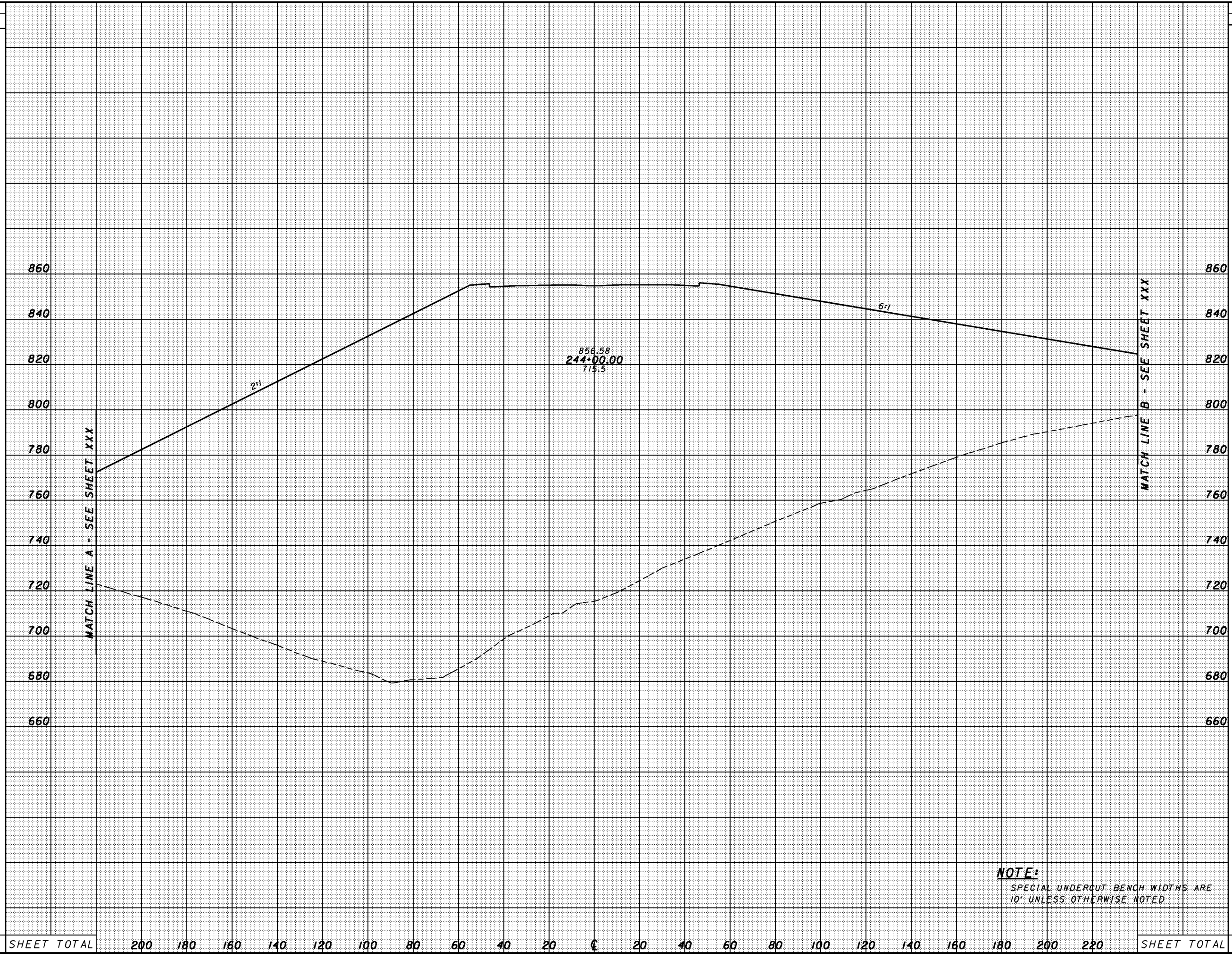
SCI-823-0.00



4:43:58 PM 1/30/2008 g:\C003\0064\Road\PHASE 3\171366x-sr-823\_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

CROSS SECTIONS  
SR823 - STA. 244+00.00

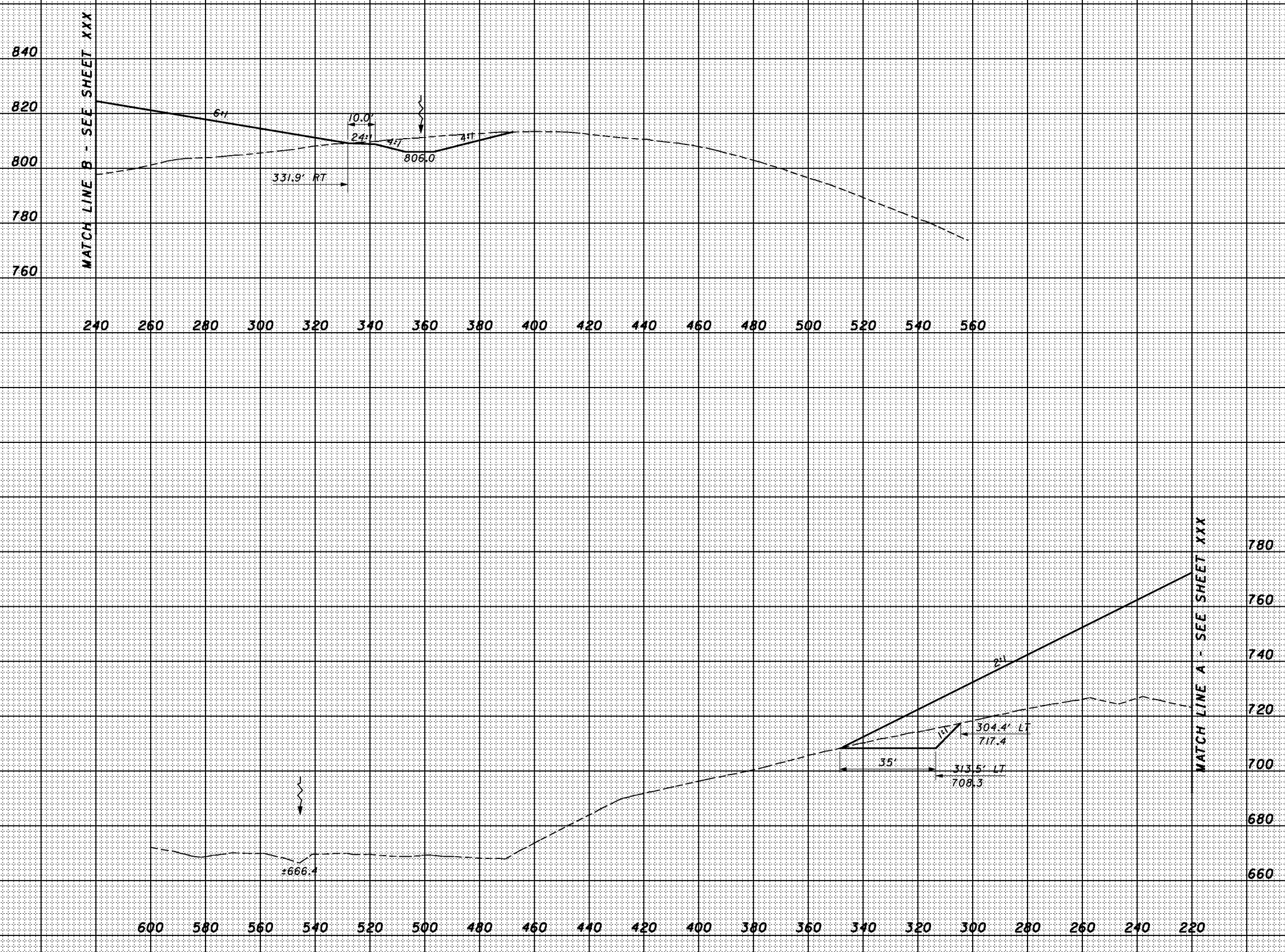
SCI-823-0.00

375

444443.PM 1/30/2008 g:\c003\0064\Road\PHASE 3\171366\ss-sr-823\_1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



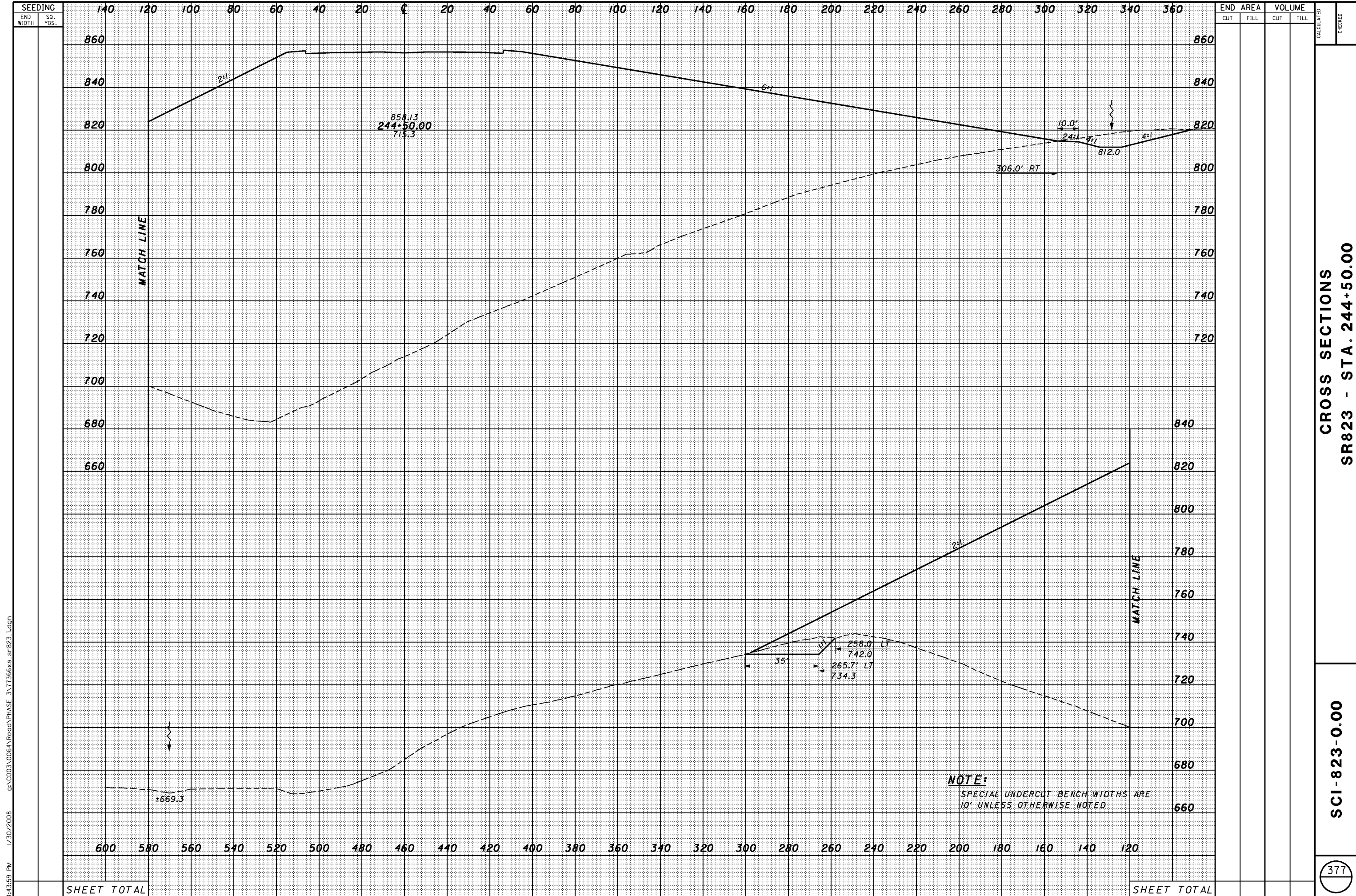
CROSS SECTIONS  
SR823 - STA. 244+00.00

SCI-823-0.00

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

SHEET TOTAL

SHEET TOTAL



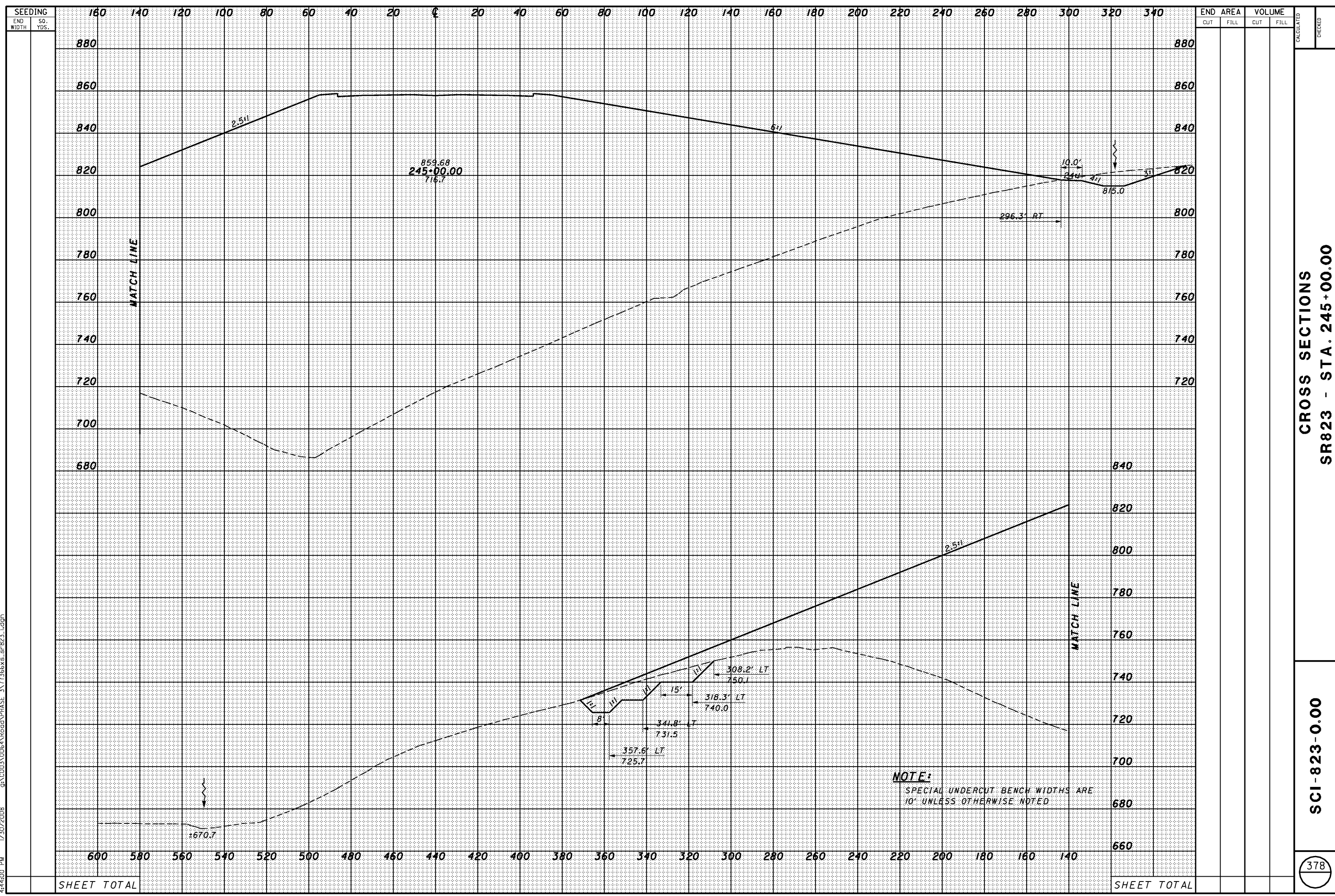
CROSS SECTIONS  
SR823 - STA. 244+50.00

SCI-823-0.00

443159 PM 1/30/2008 g:\c003\0064\Road\PHASE 3\171366x-sr-823\_1.dgn



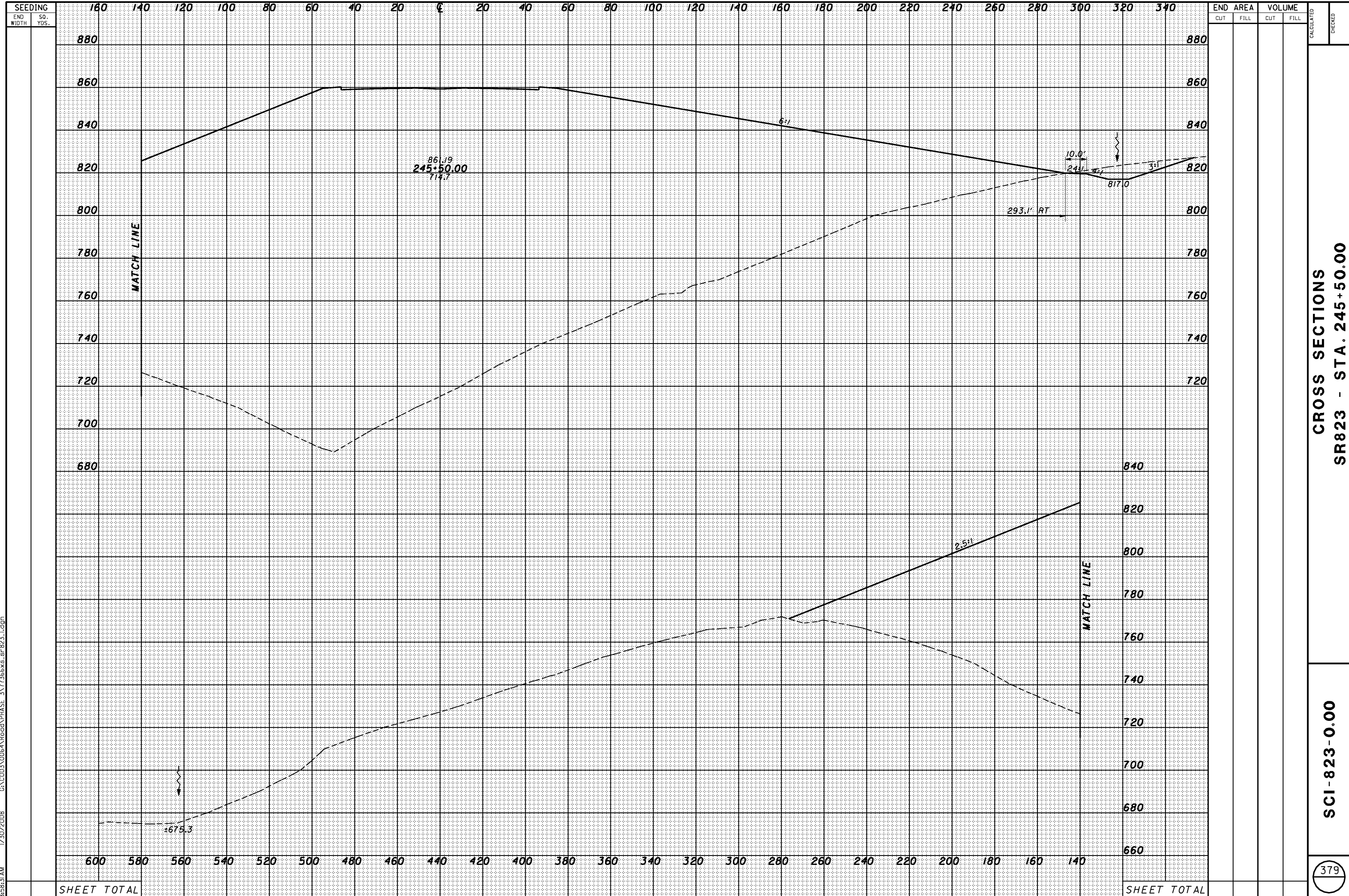
4:44:00 PM 1/30/2008 g:\c003\0064\Road\PHASE 3\171366xs\_sr-823\_1.dgn



SHEET TOTAL

SHEET TOTAL





8/28/31 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13668s-sr-823-1.dgn

SHEET TOTAL

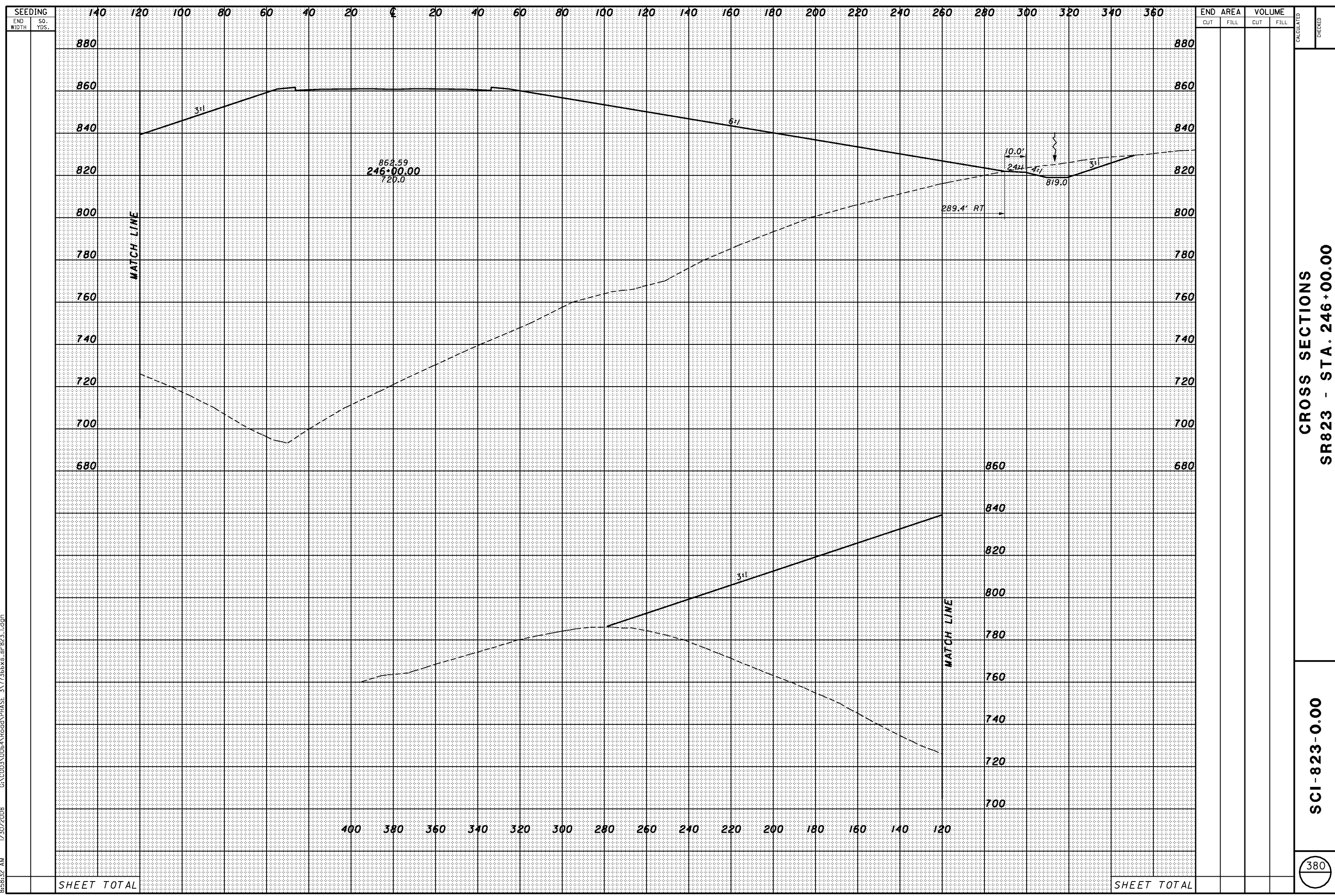
SHEET TOTAL

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

**CROSS SECTIONS**  
**SR823 - STA. 245+50.00**

**SCI-823-0.00**

8/5/32 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13668s-sr-823-1.dgn



SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

CROSS SECTIONS  
SR823 - STA. 246+00.00

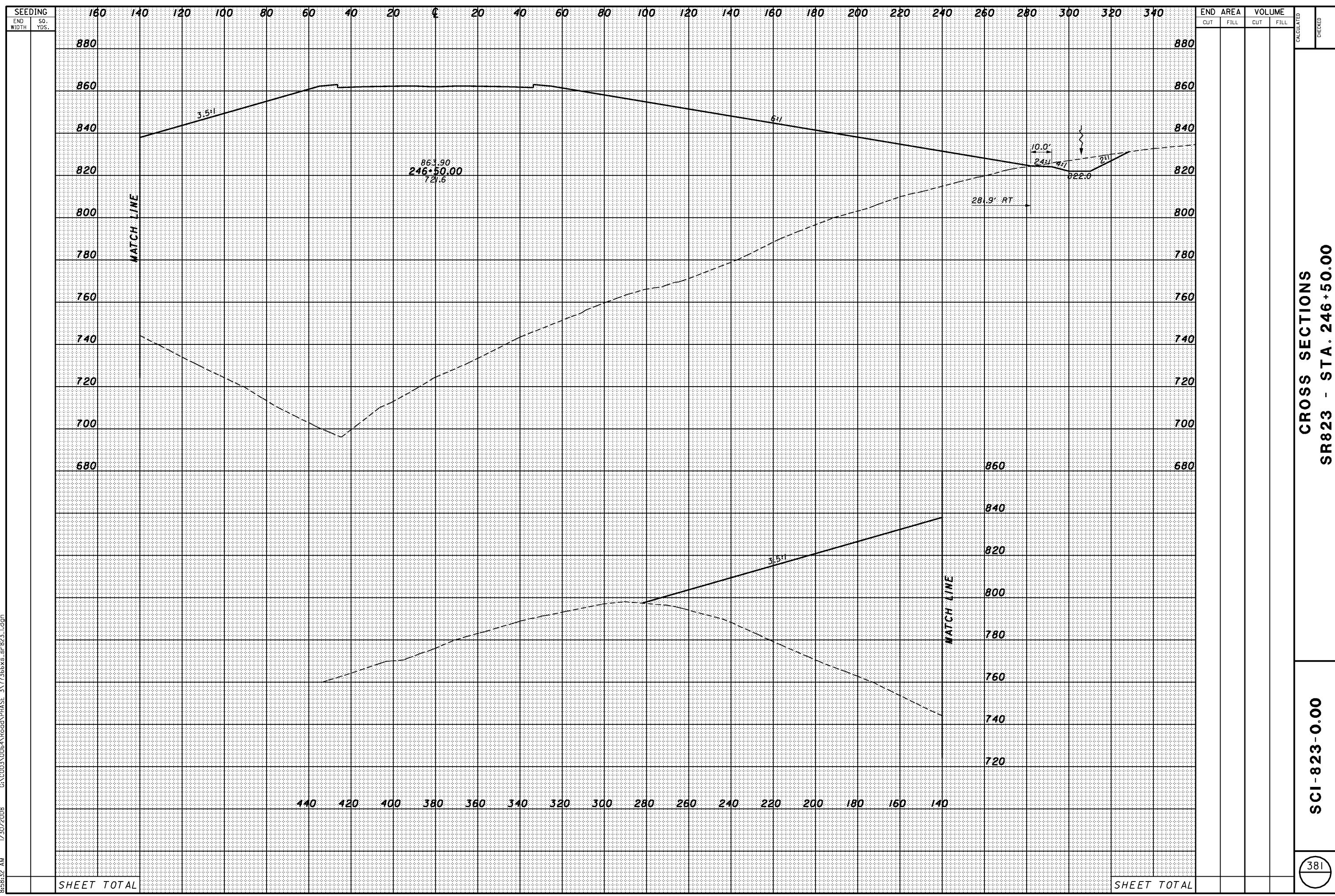
SCI-823-0.00

380

SHEET TOTAL

SHEET TOTAL

8/5/32 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823-1.dgn

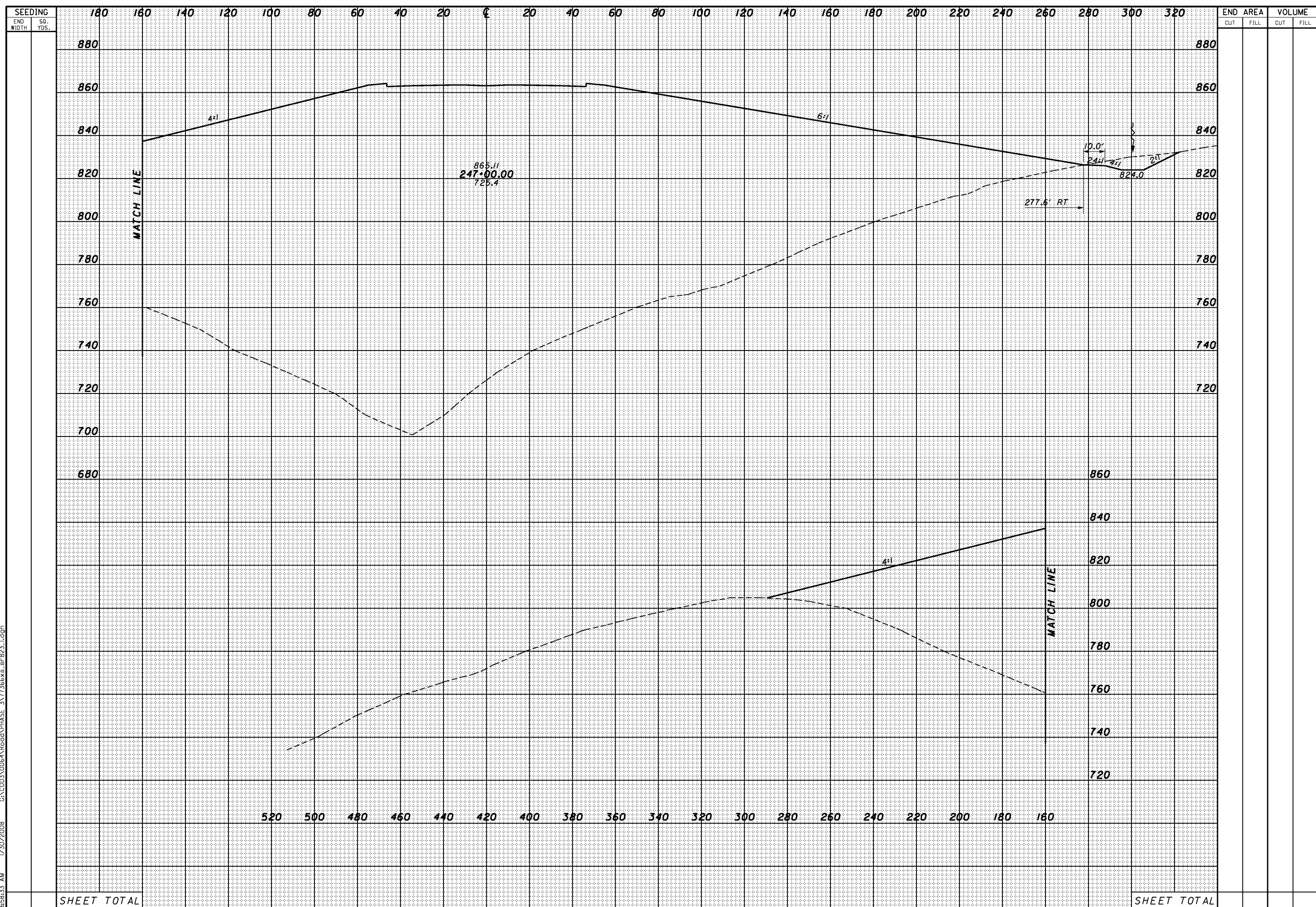


SHEET TOTAL

SHEET TOTAL



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CROSS SECTIONS  
SR823 - STA. 247+00.00

SCI-823-0.00

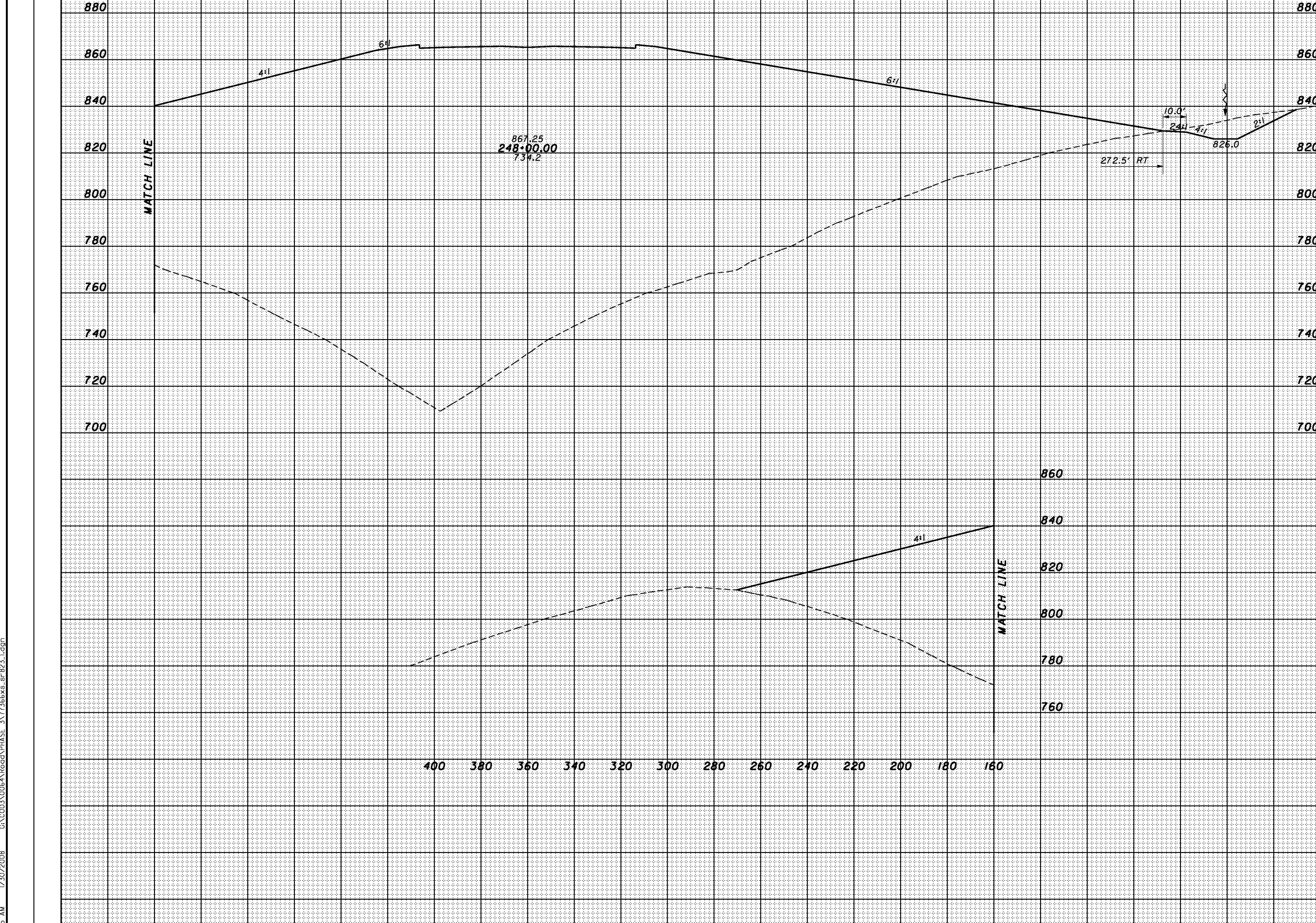




8:58:35 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823-1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS  
SR823 - STA. 248+00.00

SCI-823-0.00

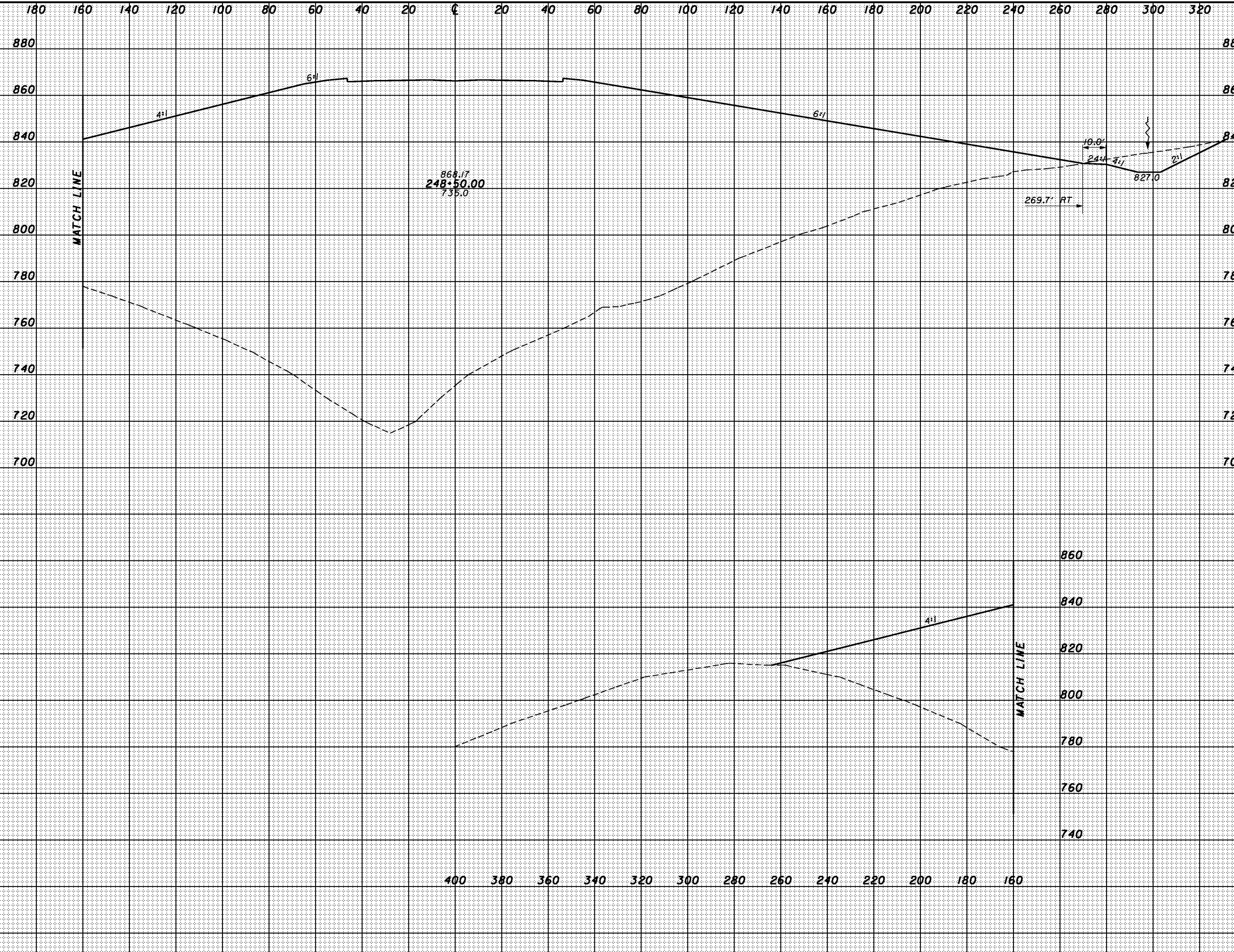
384

SHEET TOTAL

SHEET TOTAL

SEEDING  
END WIDTH SO. YDS.

848:36 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823-1.dgn



END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

CROSS SECTIONS  
SR823 - STA. 248+50.00

SCI-823-0.00

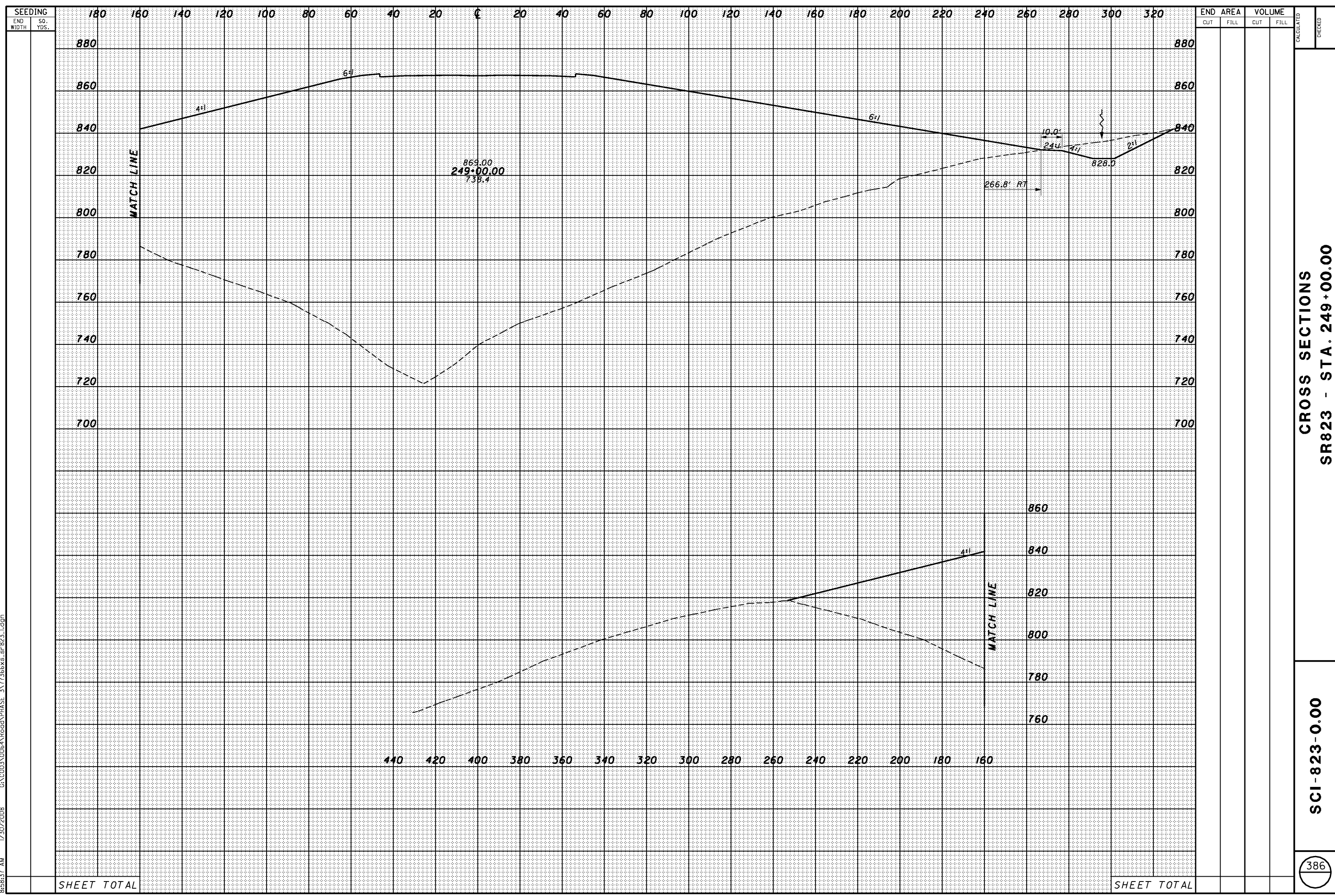
385

SHEET TOTAL

SHEET TOTAL



1/30/2008 8:58:37 AM G:\C003\0064\Road\PHASE 3\1713668s-sr-823-1.dgn

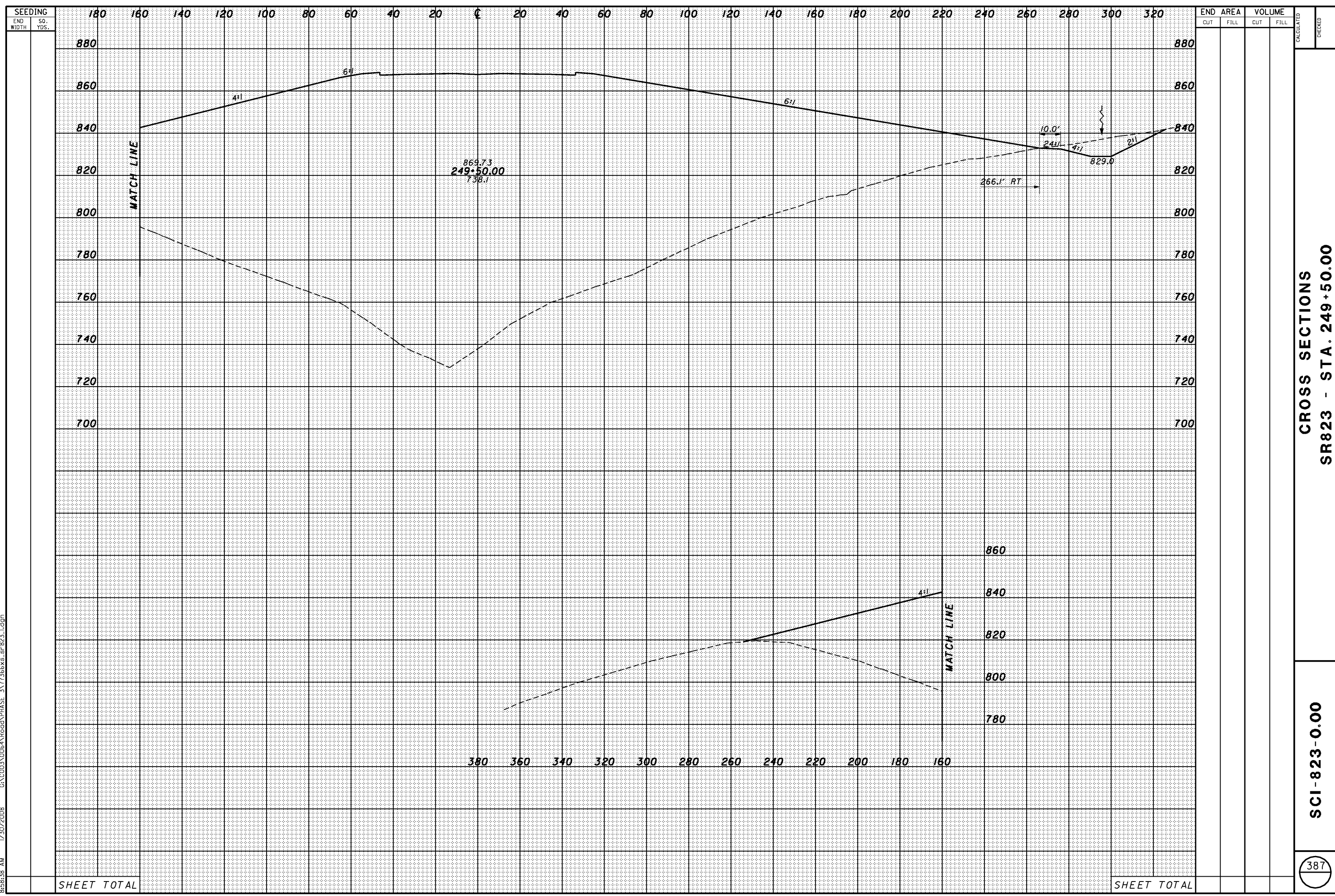


SHEET TOTAL

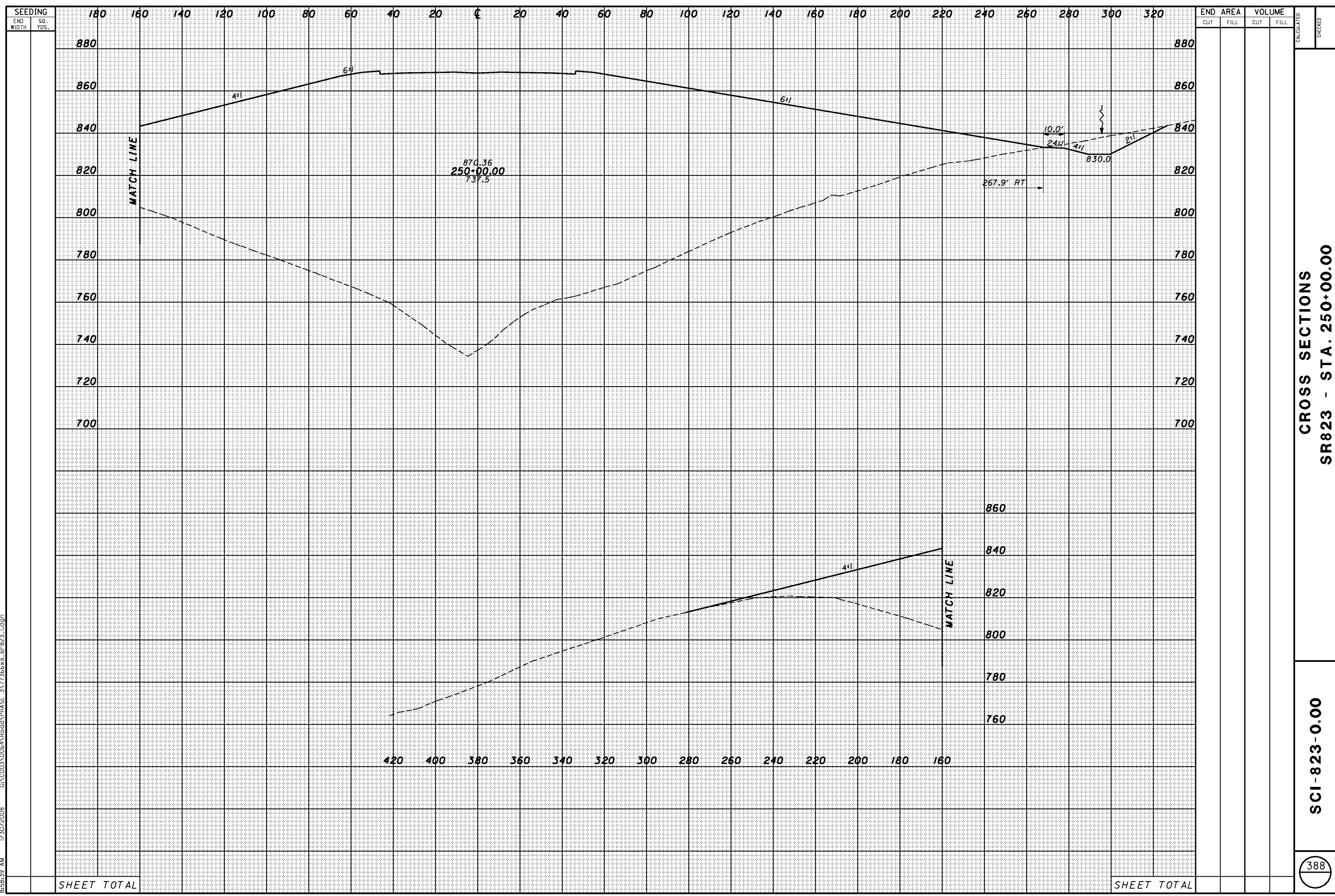
SHEET TOTAL



1/30/2008 8:58:38 AM G:\C003\0064\Road\PHASE 3\171366&s-sr-823-1.dgn



8:58:39 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666x-sr-823-1.dgn

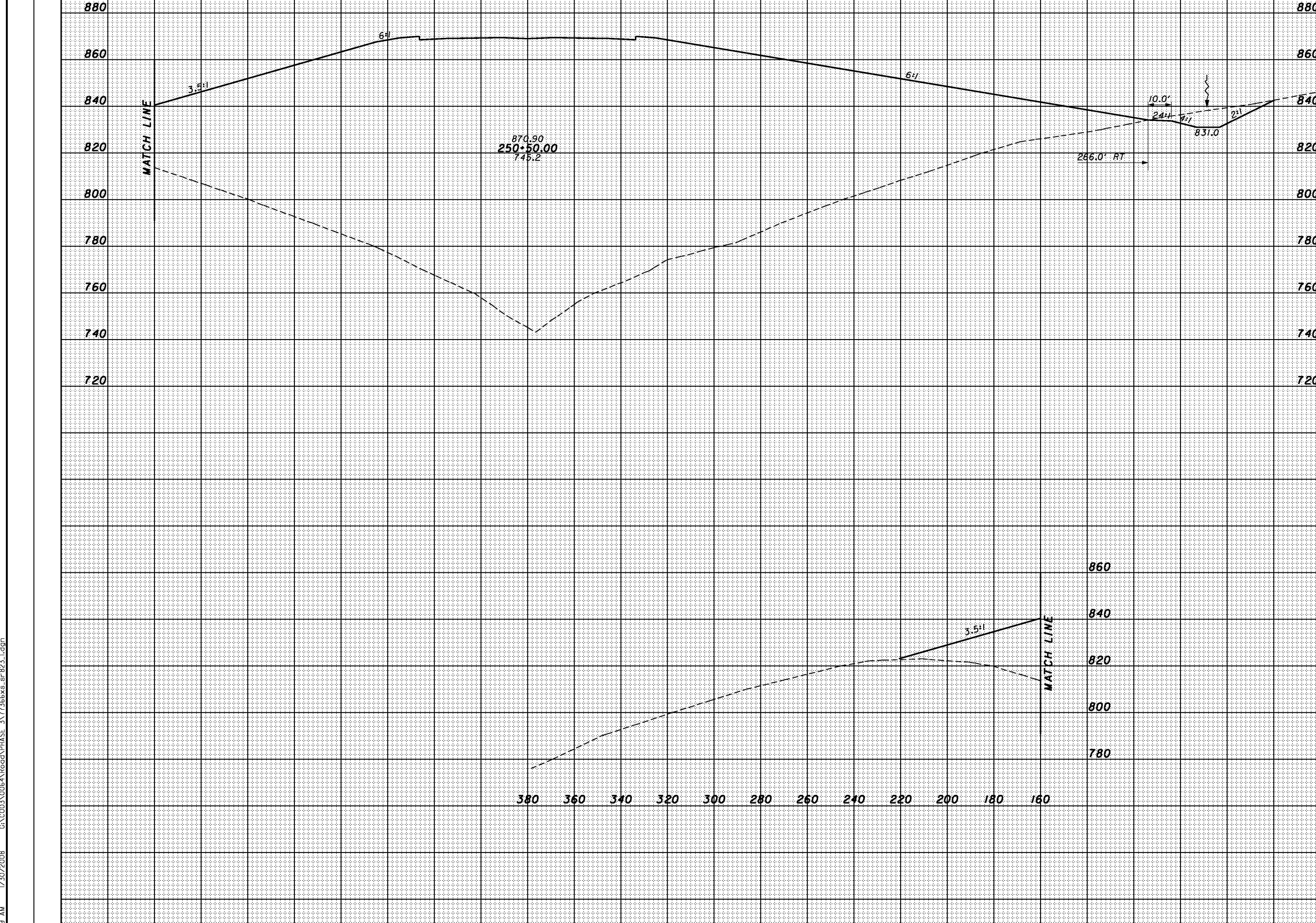


END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		
<b>CROSS SECTIONS</b>					
<b>SR823 - STA. 250+00.00</b>					
<b>SCI-823-0.00</b>					
388					

8/5/03 9:39 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823-1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS  
SR823 - STA. 250+50.00

SCI-823-0.00

SHEET TOTAL

SHEET TOTAL



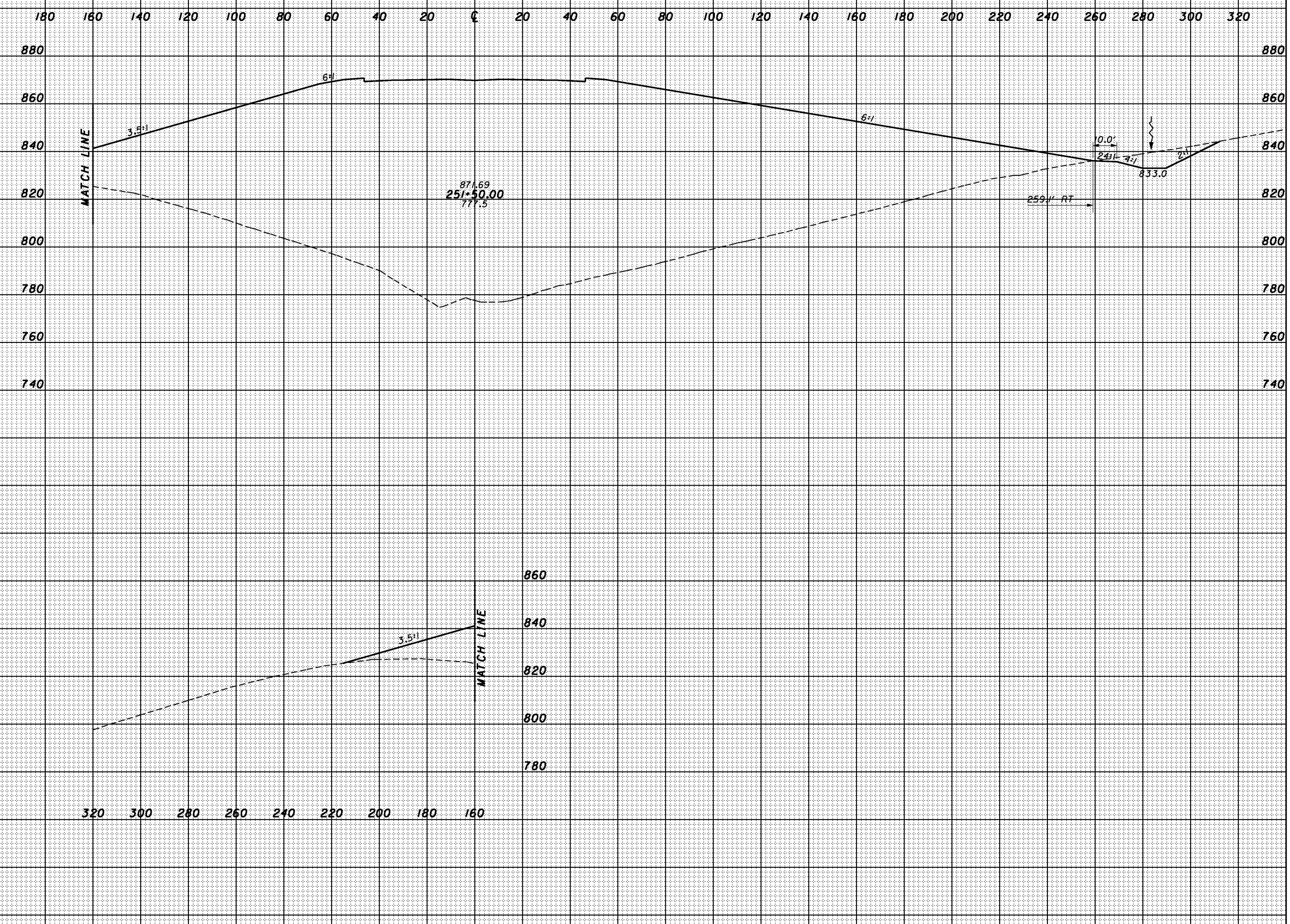




1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823-1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 251+50.00

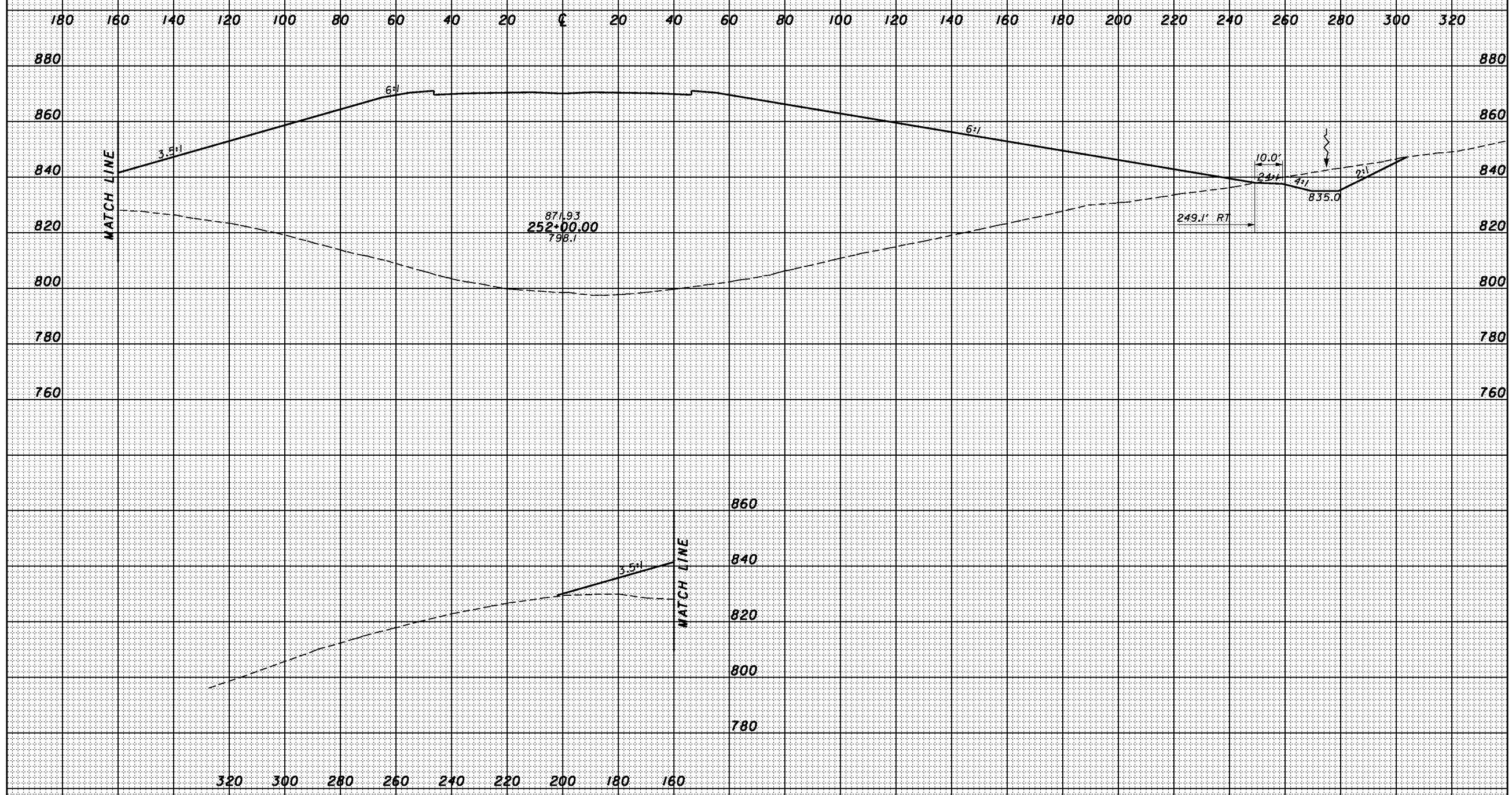
SCI-823-0.00

8/5/04 11:30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823-1.dgn

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL

CALCULATED  
CHECKED



SHEET TOTAL

SHEET TOTAL

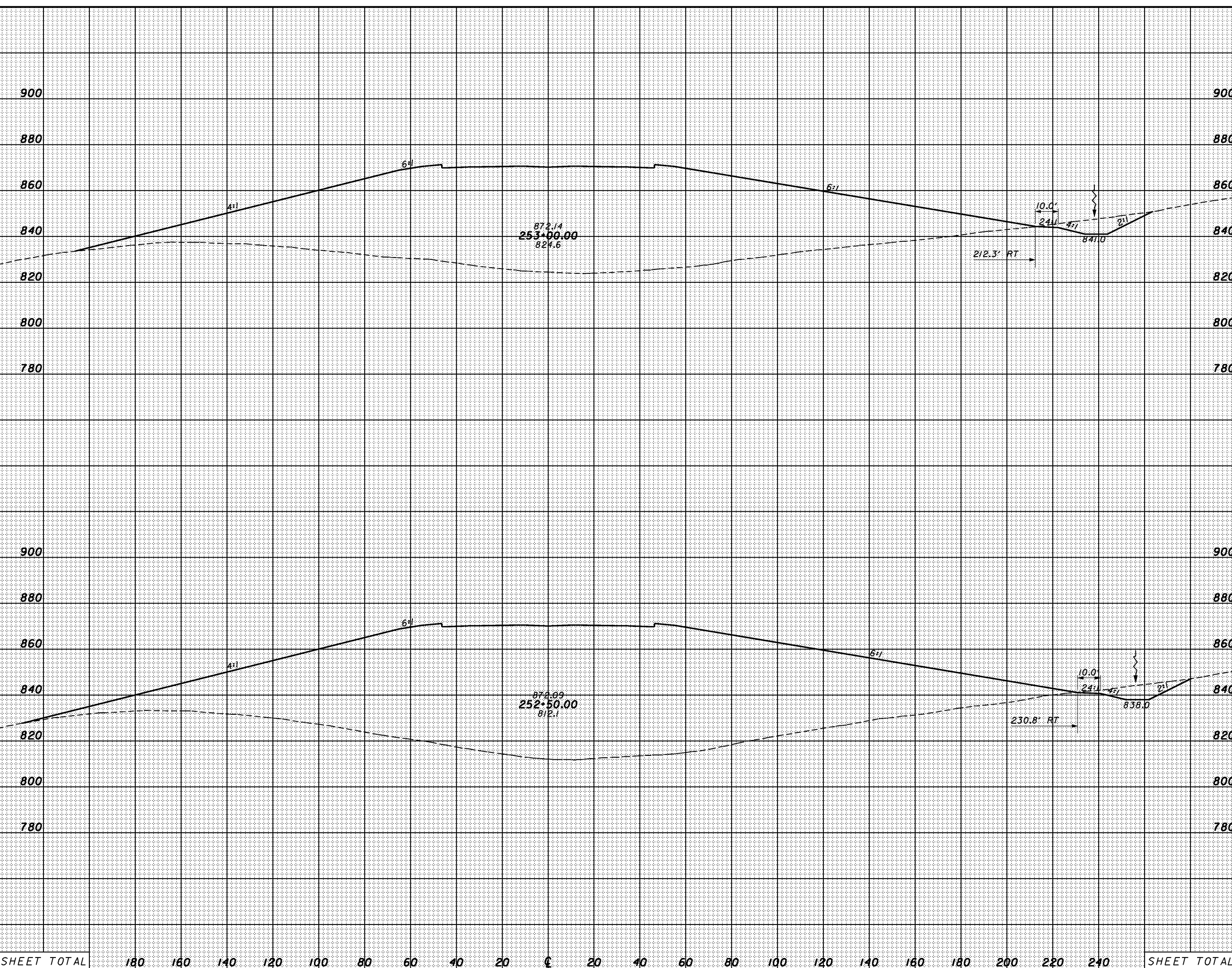
CROSS SECTIONS  
SR823 - STA. 252+00.00

SCI-823-0.00

8/5/08 11:30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823-1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



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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CROSS SECTIONS  
 SR823 - STA. 252+50.00 TO STA. 253+00.00

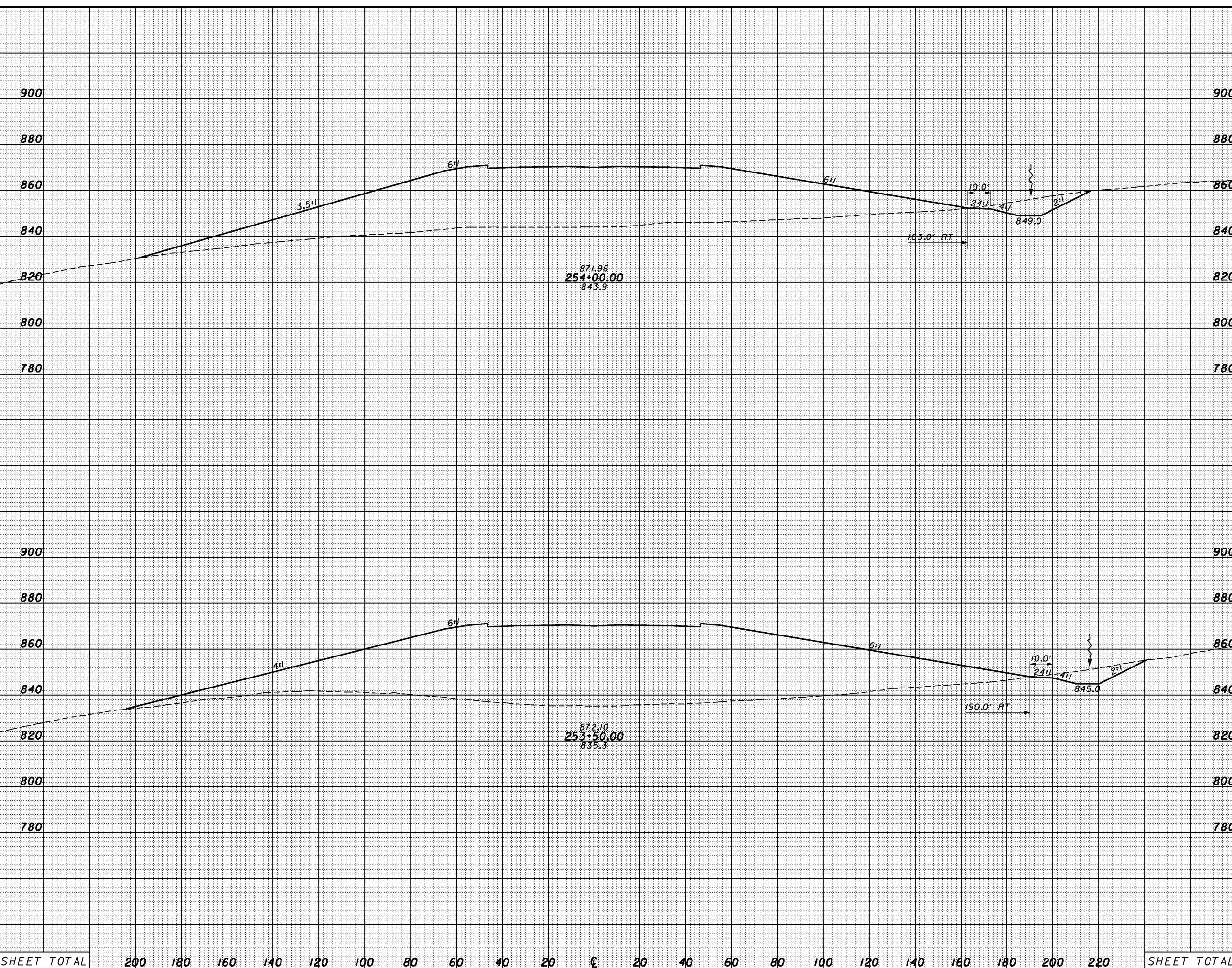
SCI-823-0.00



8/5/14 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823-1.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	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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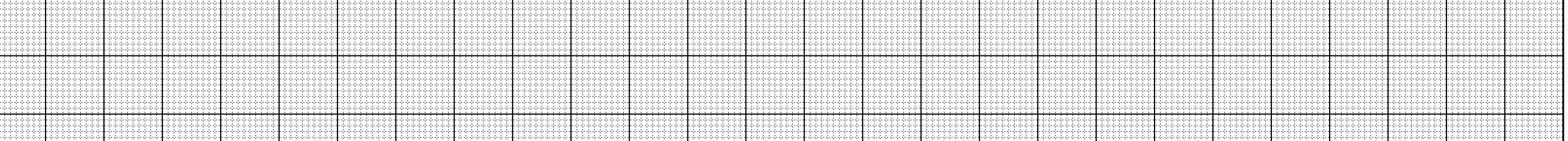
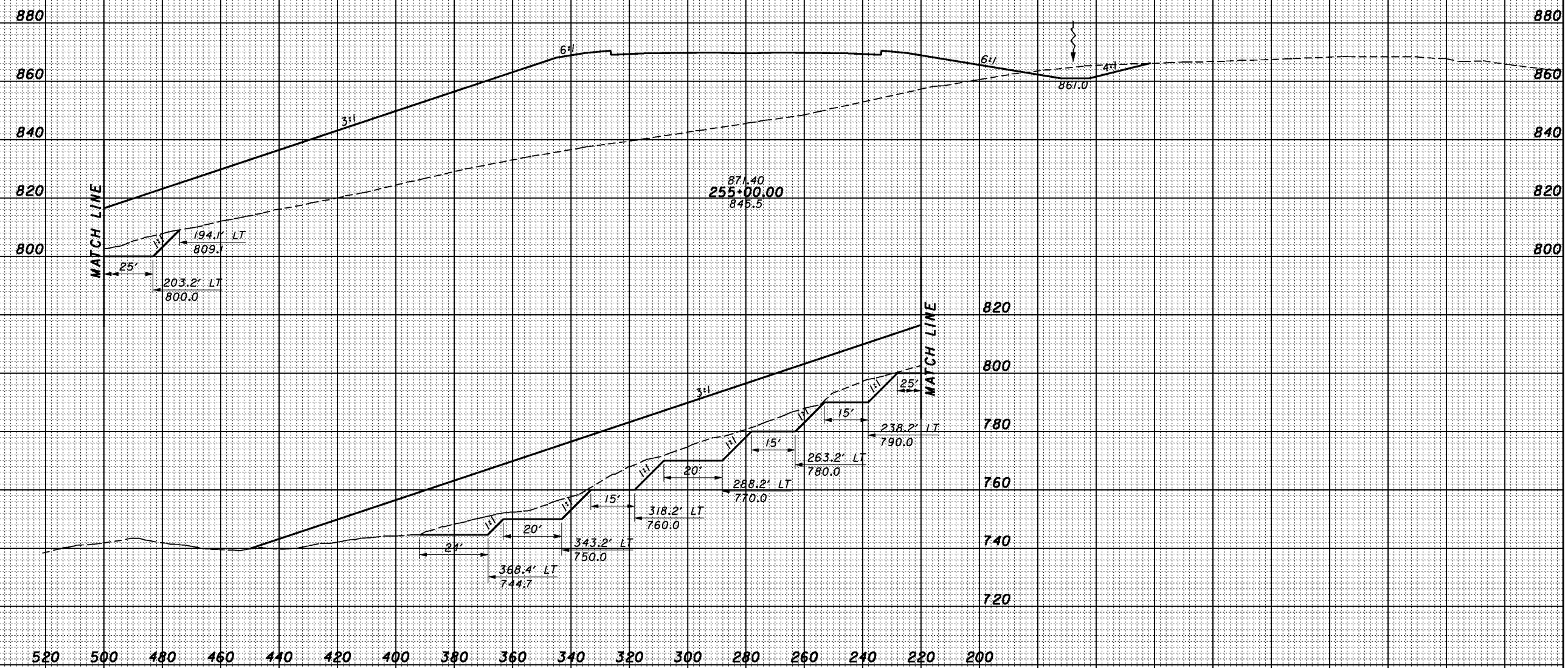
CROSS SECTIONS  
 SR823 - STA. 253+50.00 TO STA. 254+00.00

SCI-823-0.00



SEEDING  
END WIDTH SO. YDS.

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. 254+50.00 TO STA. 255+00.00

SCI-823-0.00

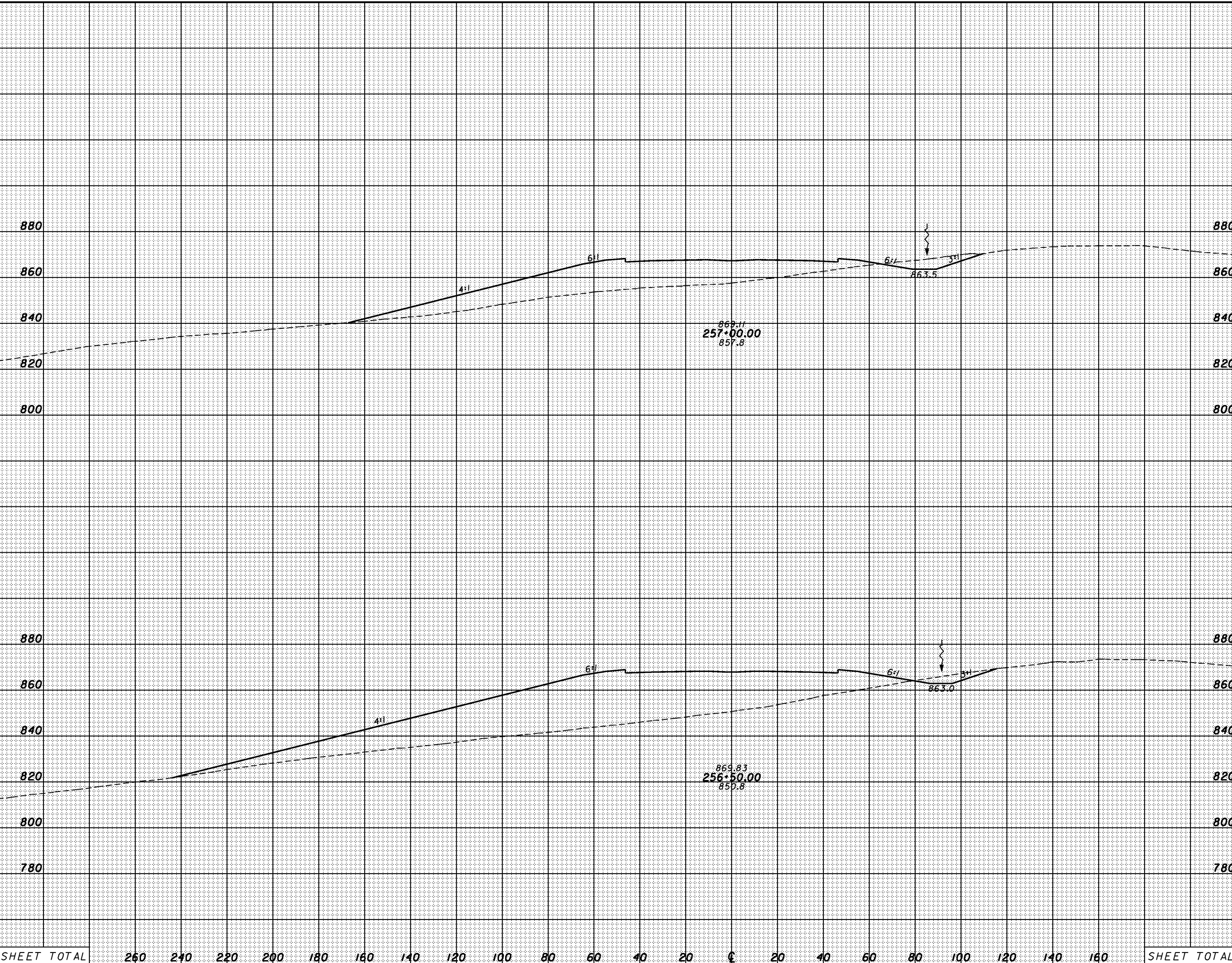
8/5/2008 11:30/2008 G:\C003\0064\Road\PHASE 3\T13666xs-sr-823-1.dgn



8:58:48 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366&s-sr-823-1.dgn

SEEDING	
END WIDTH	SO. 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	CL	20	40	60	80	100	120	140	160	SHEET TOTAL
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CROSS SECTIONS  
 SR823 - STA. 256+50.00 TO STA. 257+00.00

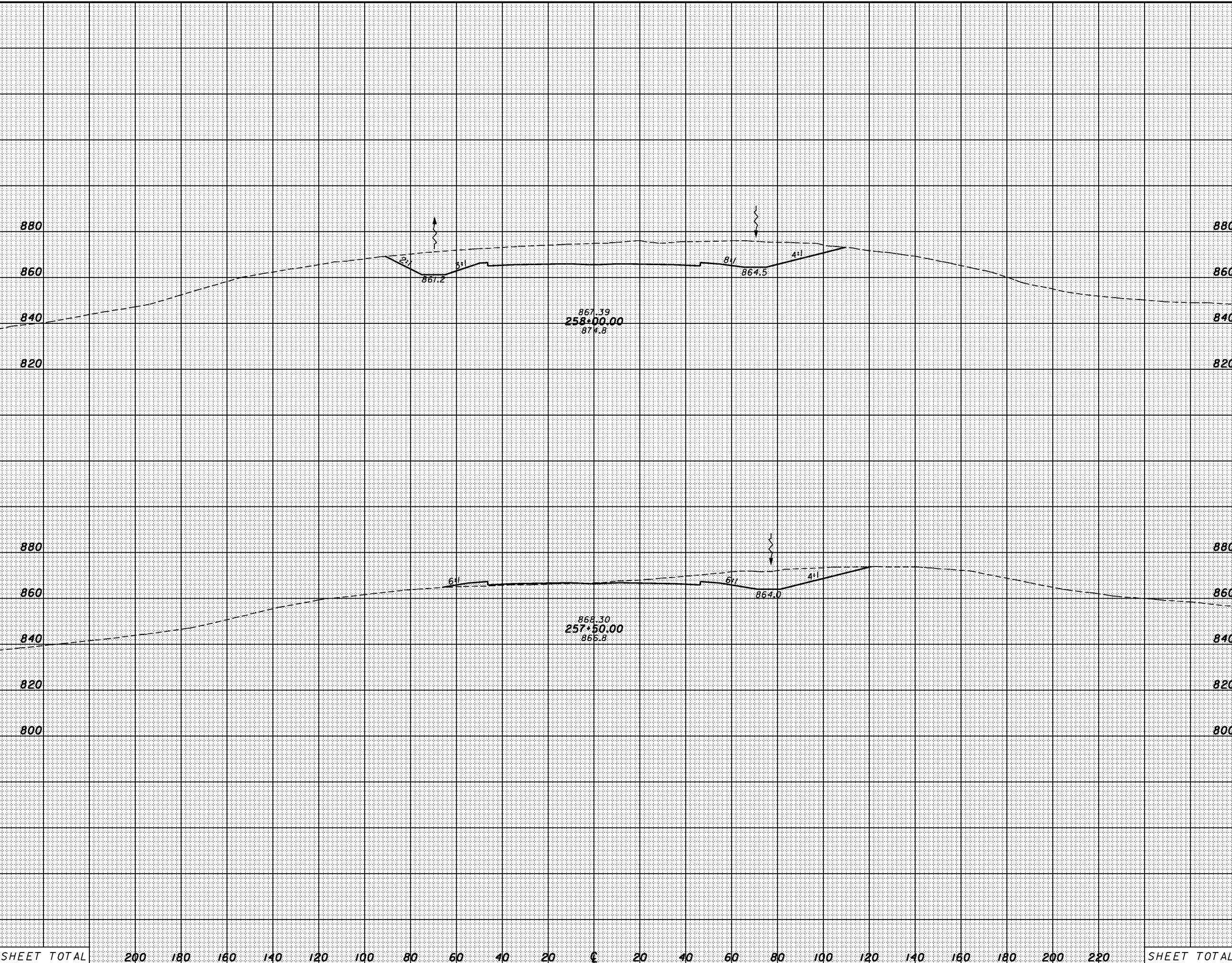
SCI-823-0.00



8:58:49 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366xs-sr-823-1.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    0    20    40    60    80    100    120    140    160    180    200    220      SHEET TOTAL

CROSS SECTIONS  
 SR823 - STA. 257+50.00 TO STA. 258+00.00

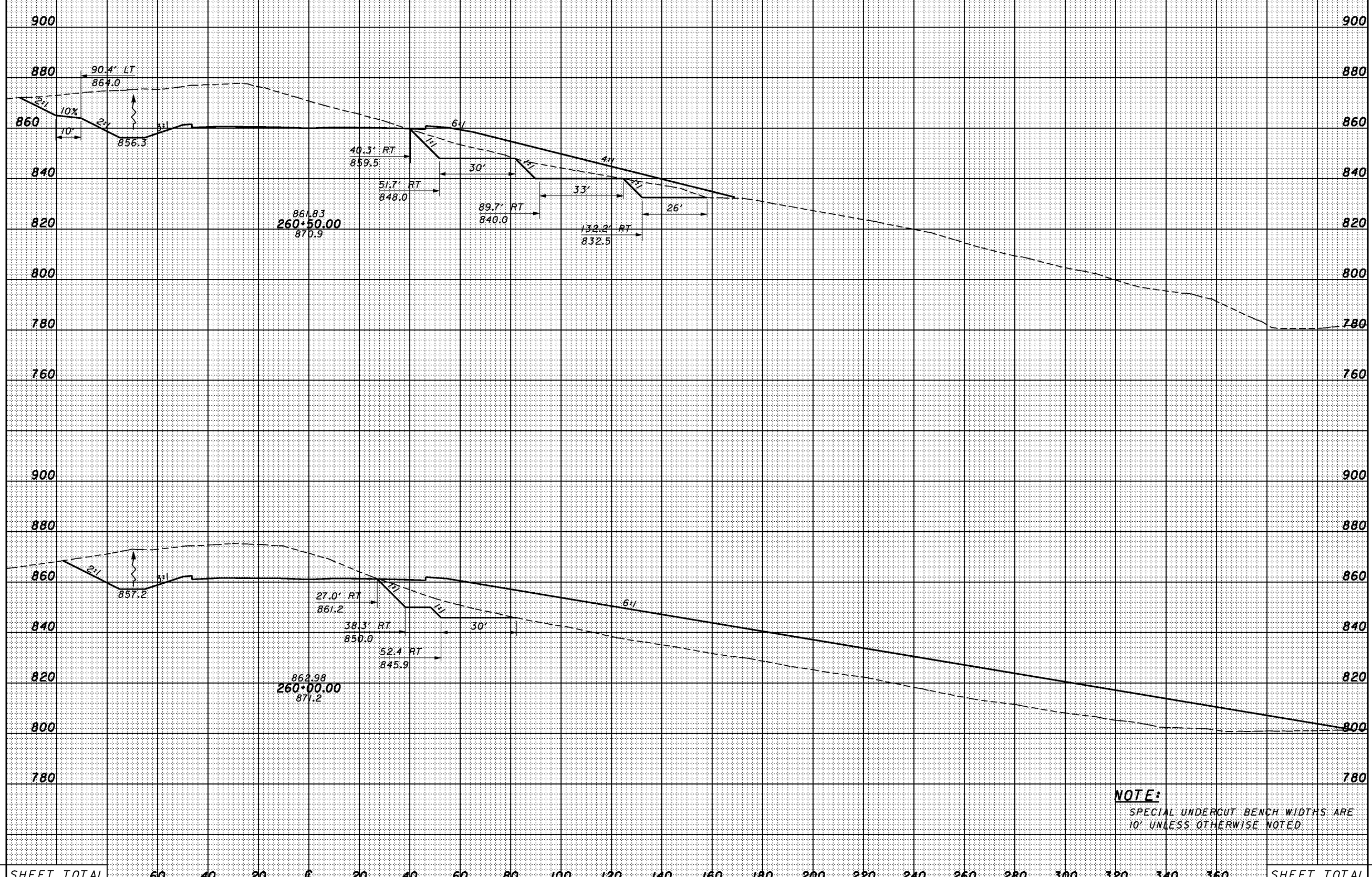
SCI-823-0.00





SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



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

SHEET TOTAL	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	SHEET TOTAL
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CROSS SECTIONS  
SR823 - STA. 260+00.00 TO STA. 260+50.00

SCI-823-0.00

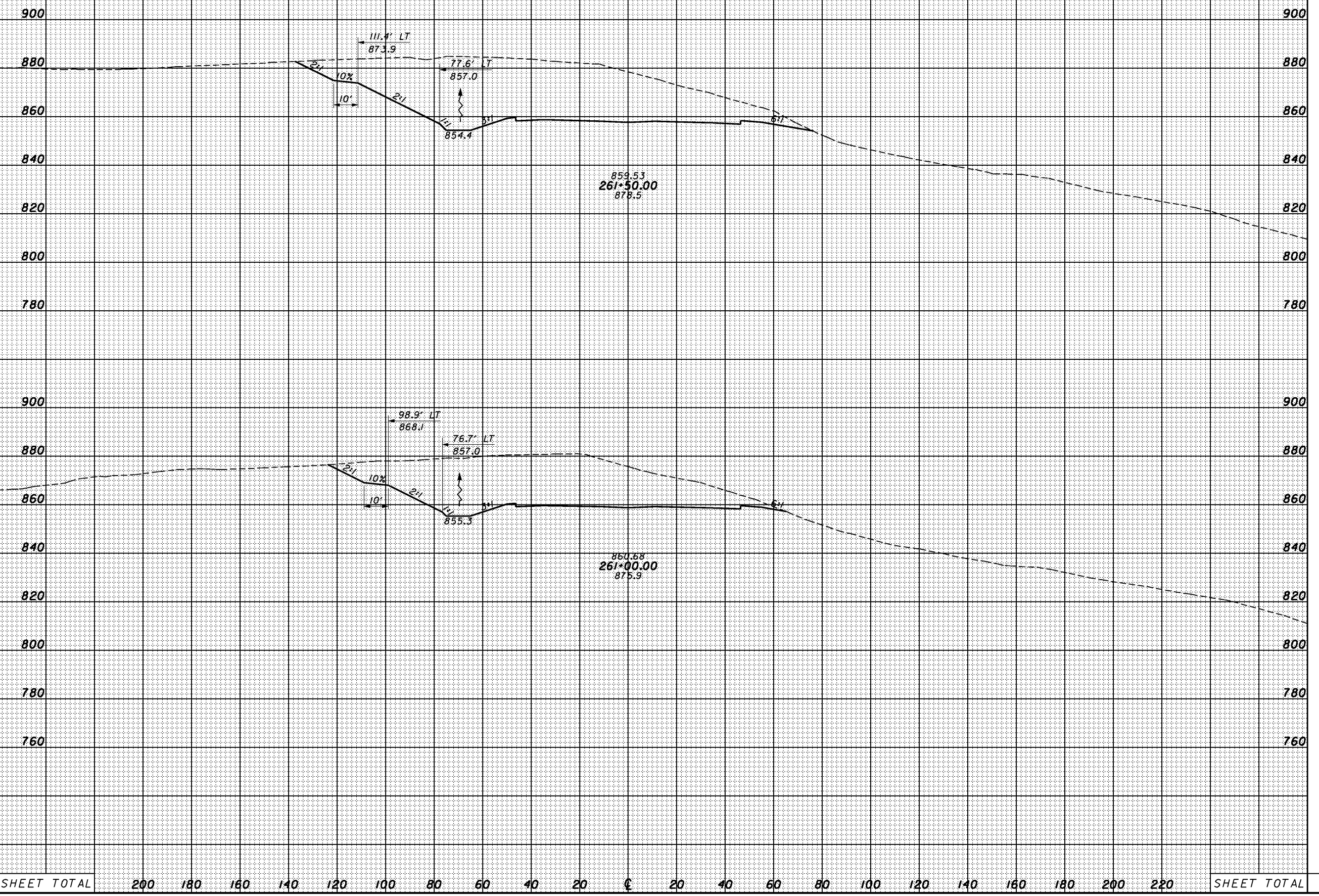
400

1/30/2008 G:\C003\0064\Road\PHASE\_3\T13668x-sr-823-1.dgn 8:58:51 AM

8:58:52 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13668x-sr-823-1.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	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS  
SR823 - STA. 261+00.00 TO STA. 261+50.00

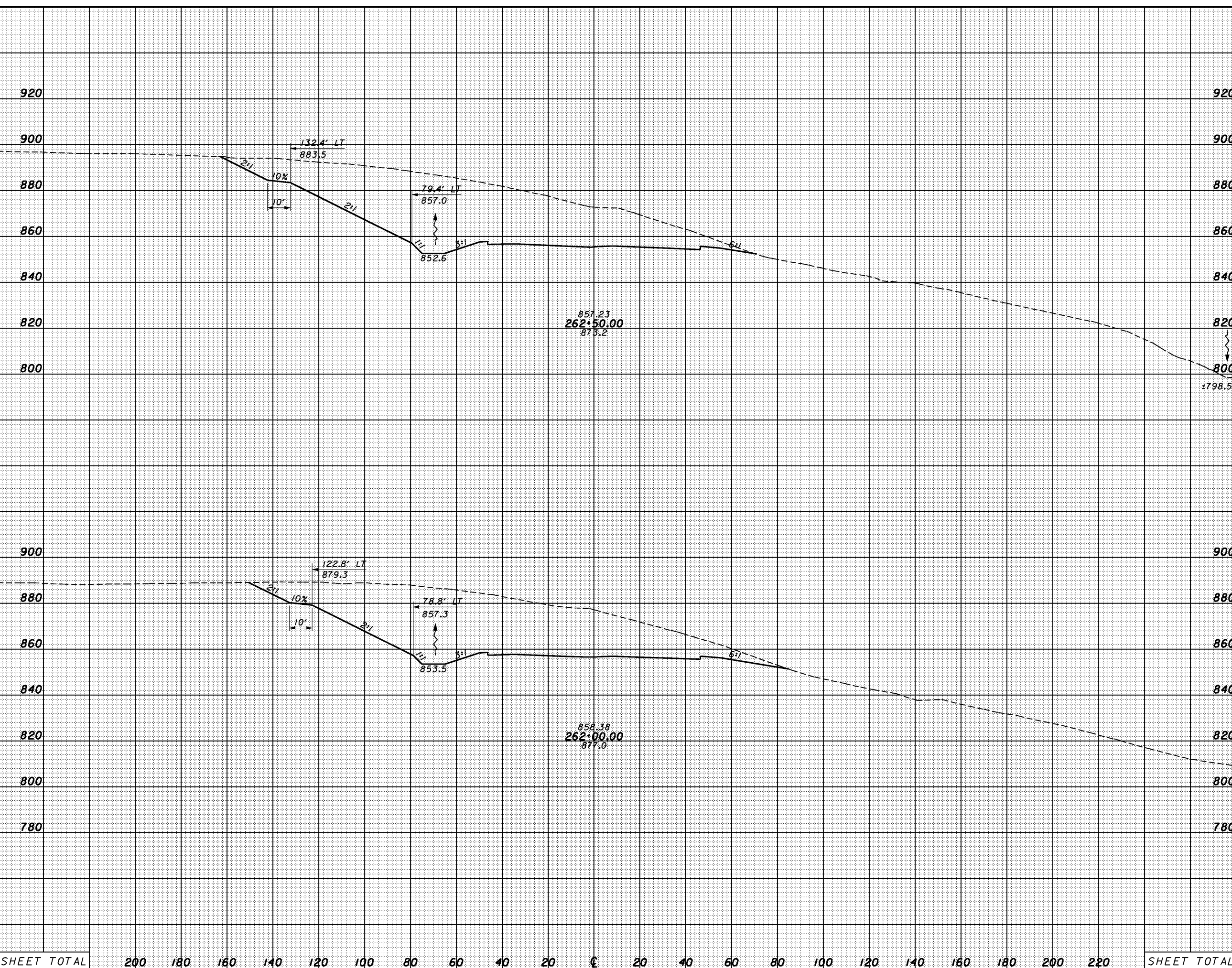
SCI-823-0.00



8:58:53 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823-1.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	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS  
SR823 - STA. 262+00.00 TO STA. 262+50.00

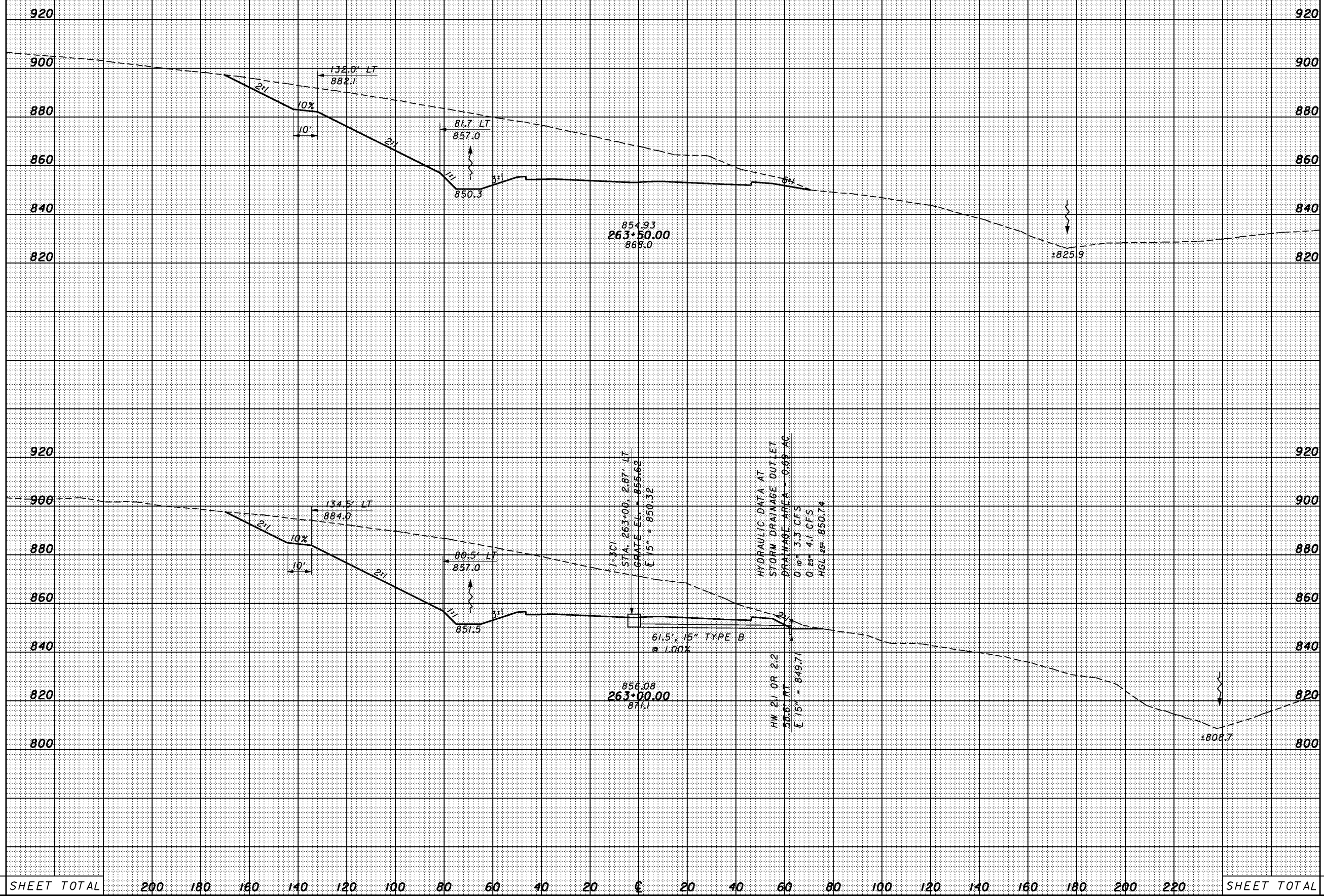
SCI-823-0.00



8:58:54 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823-1.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

CROSS SECTIONS  
SR823 - STA. 263+00.00 TO STA. 263+50.00

SCI-823-0.00



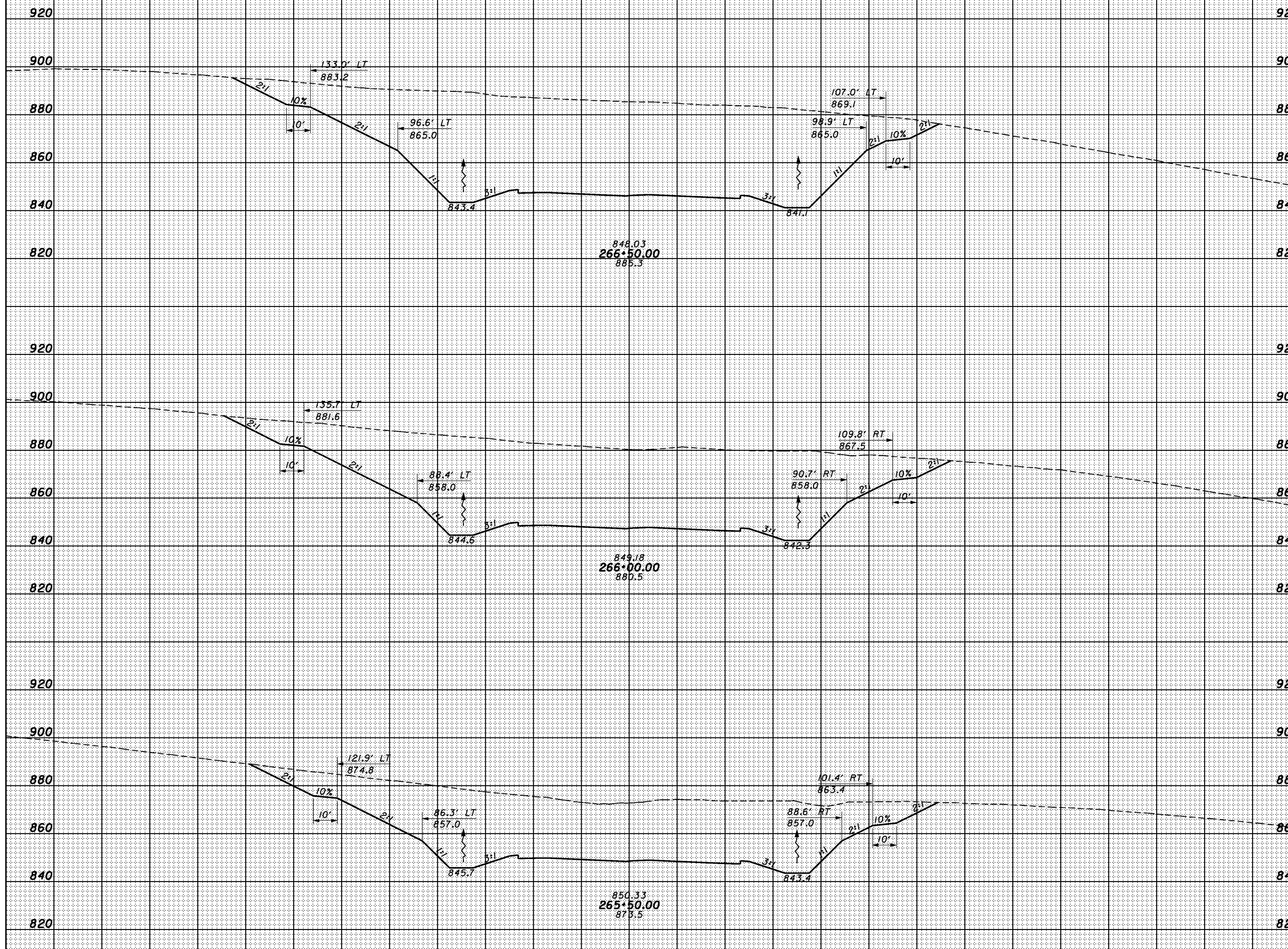
SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

848.03  
266+50.00  
885.3

849.18  
266+00.00  
880.5

850.33  
265+50.00  
875.5



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. 265+50.00 TO STA. 266+50.00

SCI-823-0.00

405

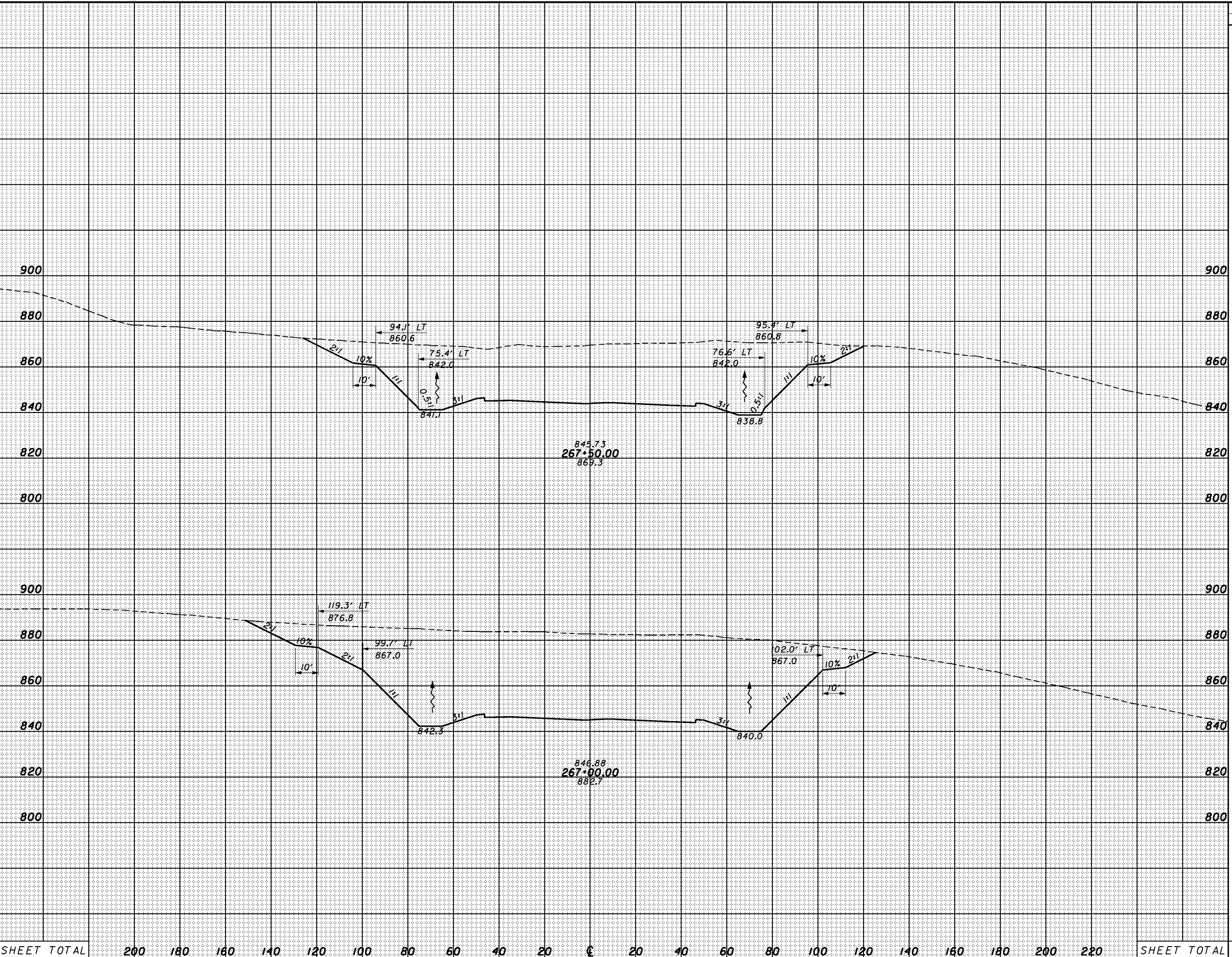
1/30/2008 G:\C003\0064\Road\PHASE 3\T13668x-sr-823-1.dgn



8:58:57 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366&s-sr-823-1.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	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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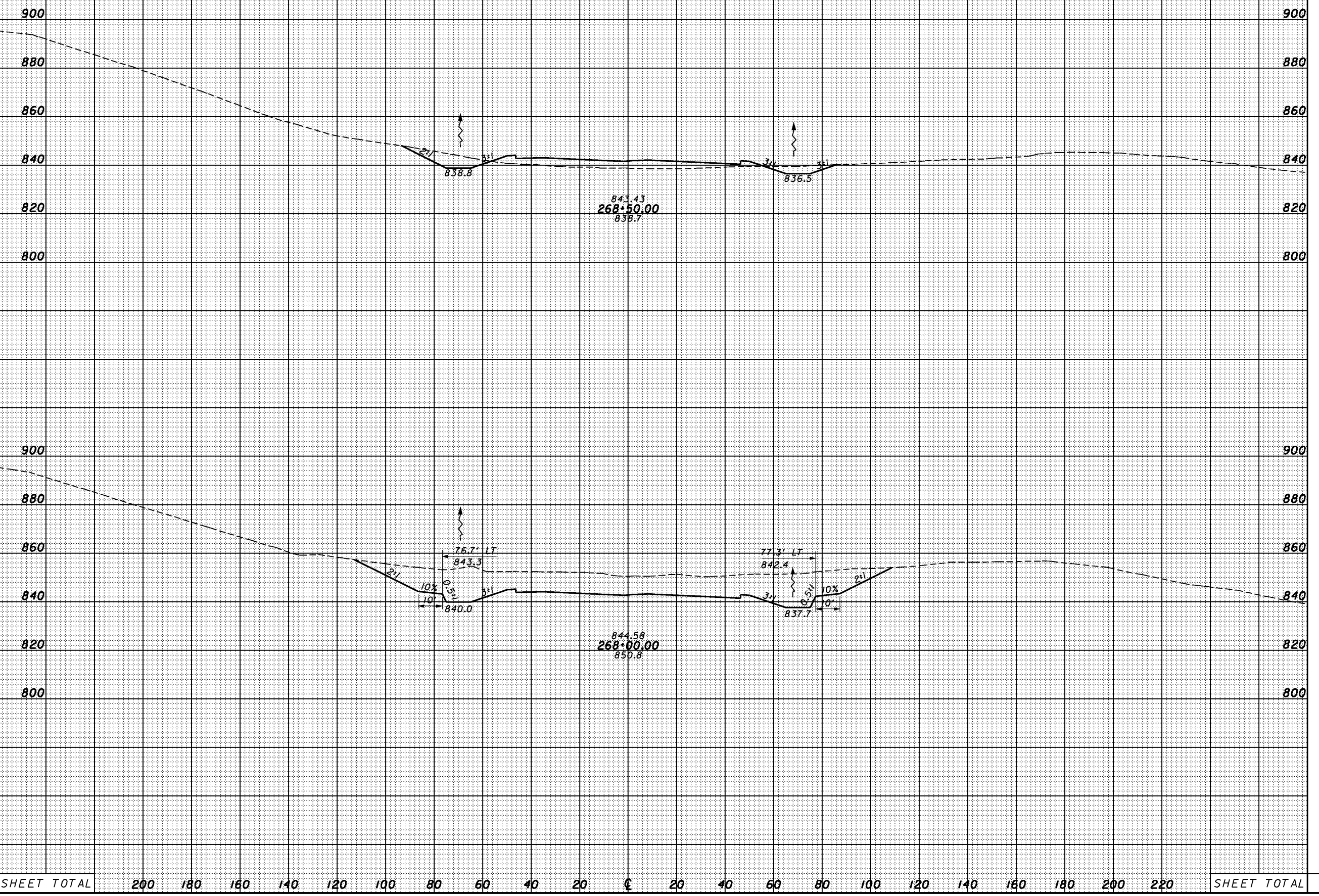
CROSS SECTIONS  
SR823 - STA. 267+00.00 TO STA. 267+50.00

SCI-823-0.00

8:58:58 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823-1.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	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

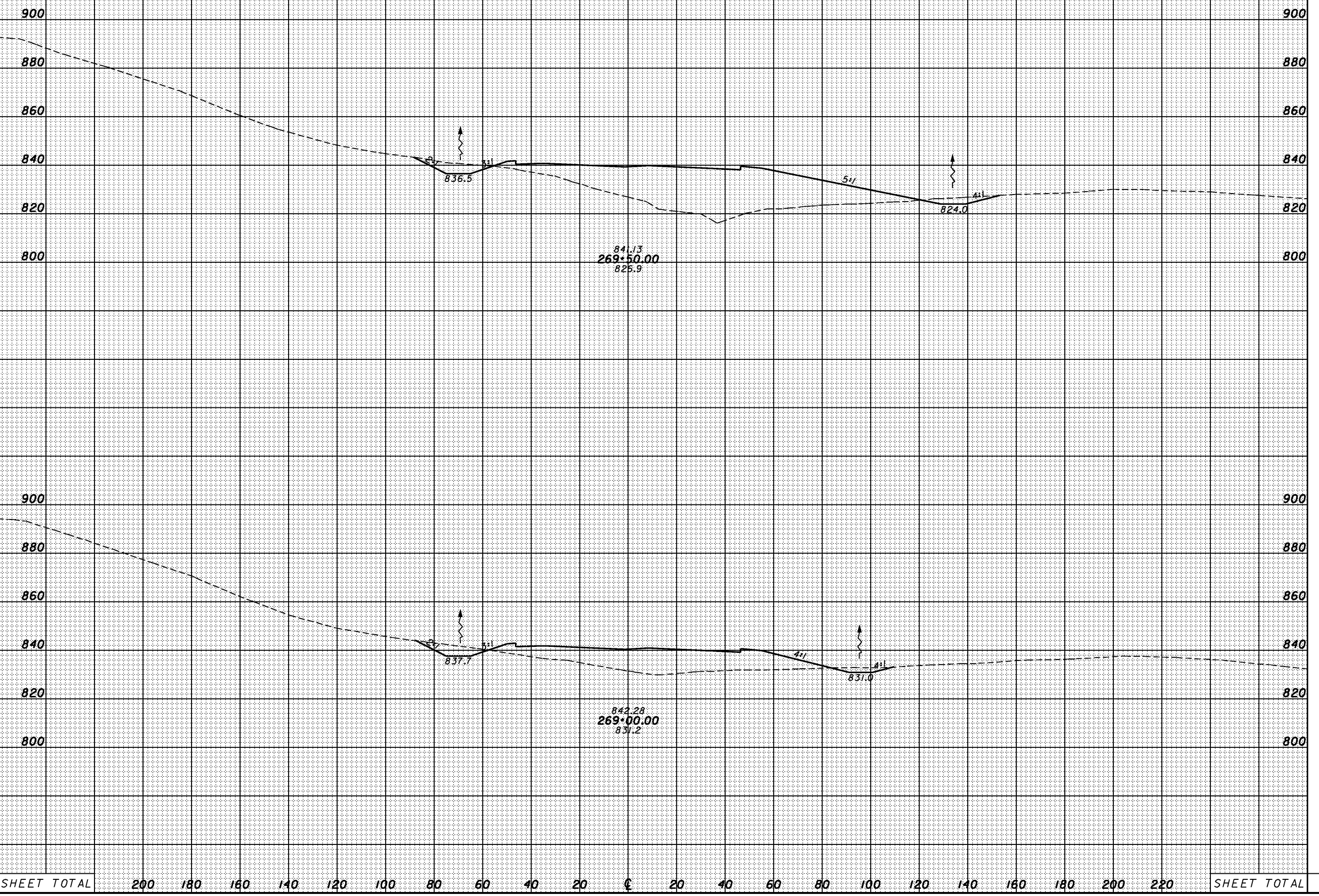
CROSS SECTIONS  
SR823 - STA. 268+00.00 TO STA. 268+50.00

SCI-823-0.00

8:58:58 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823-1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS  
SR823 - STA. 269+00.00 TO STA. 269+50.00

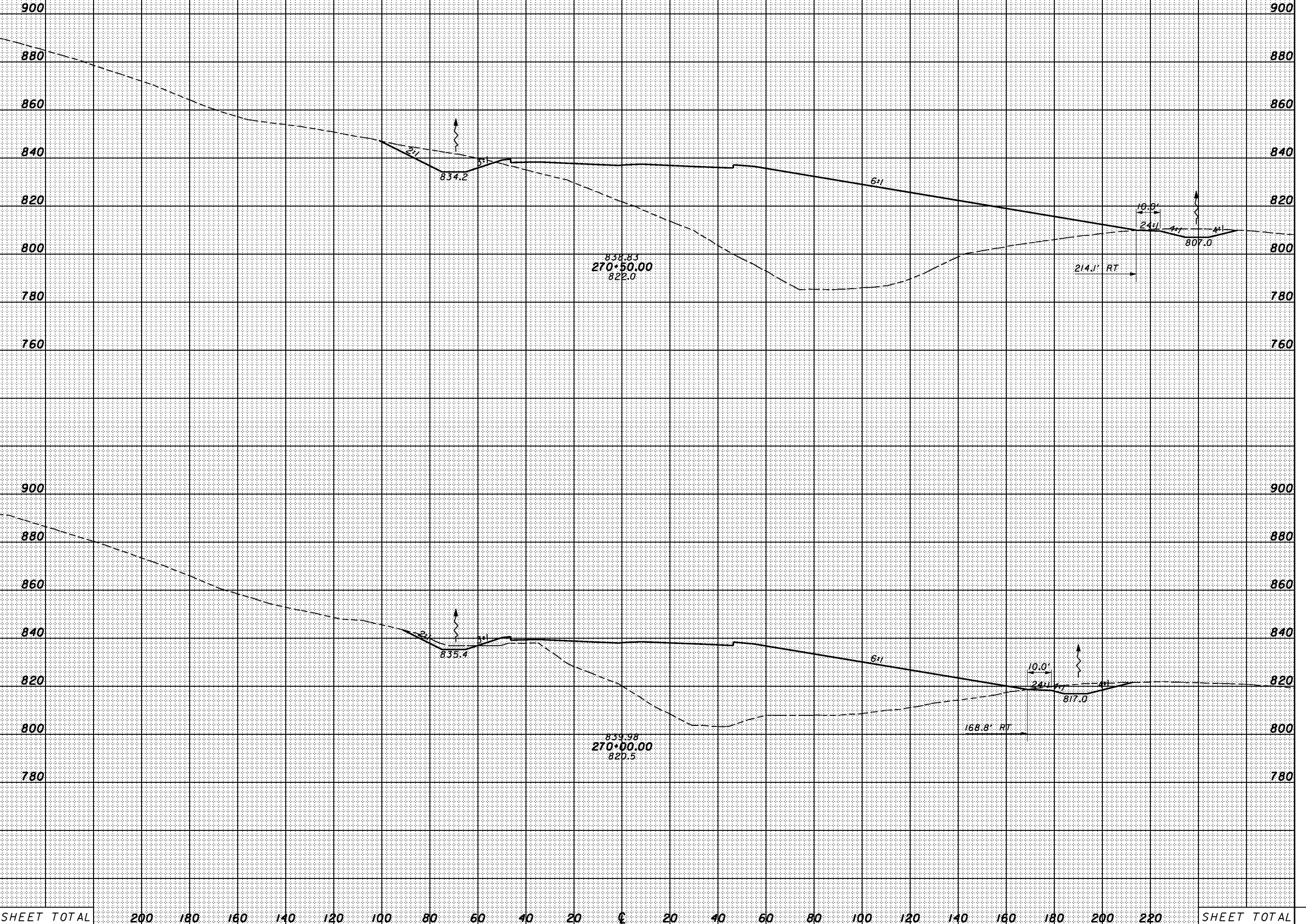
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SEEDING	
END WIDTH	SO. YDS.

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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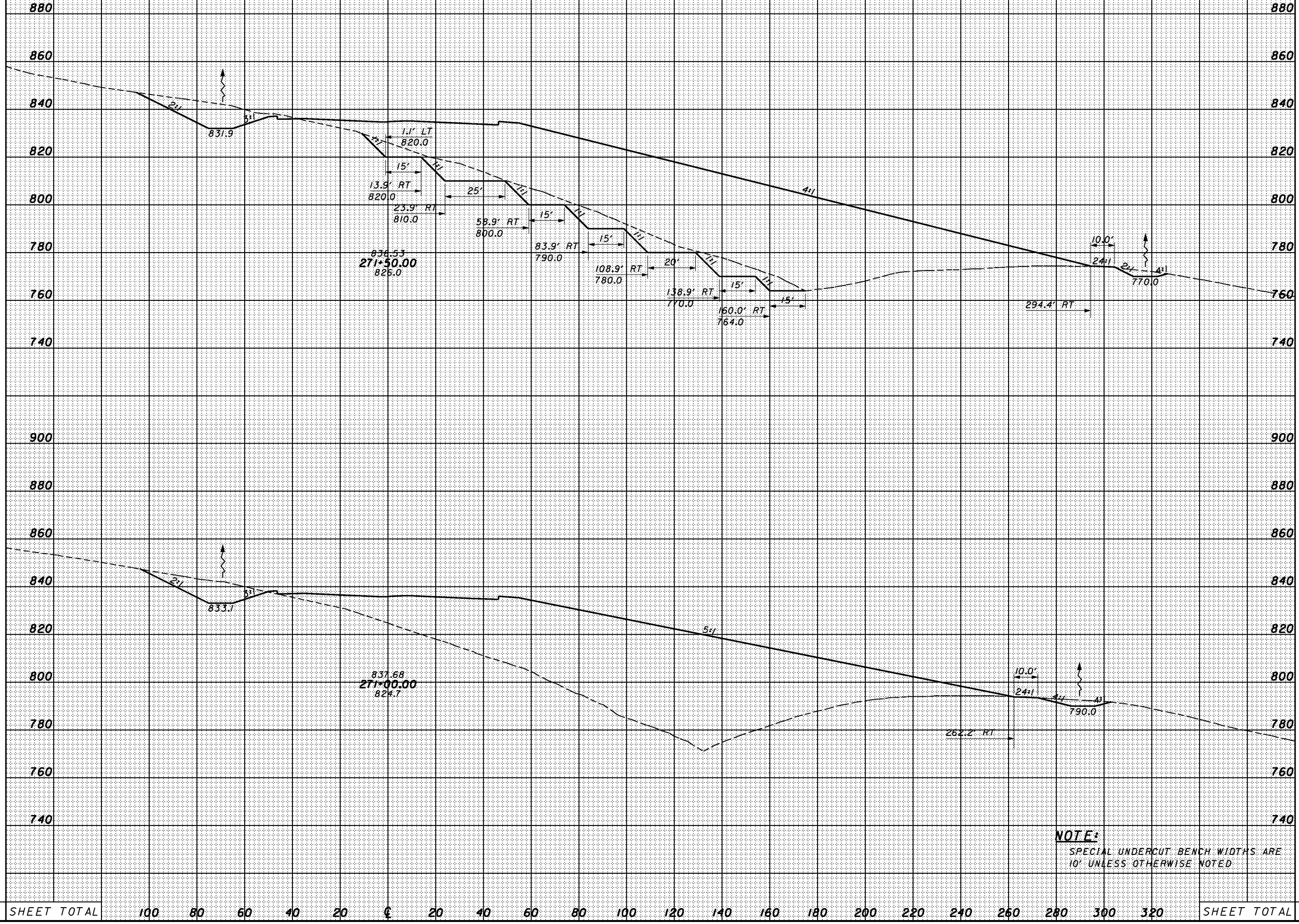
SR823 - STA. 270+00.00 TO STA. 270+50.00

SCI-823-0.00

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8:59:00 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823-1.dgn



SHEET TOTAL	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	SHEET TOTAL
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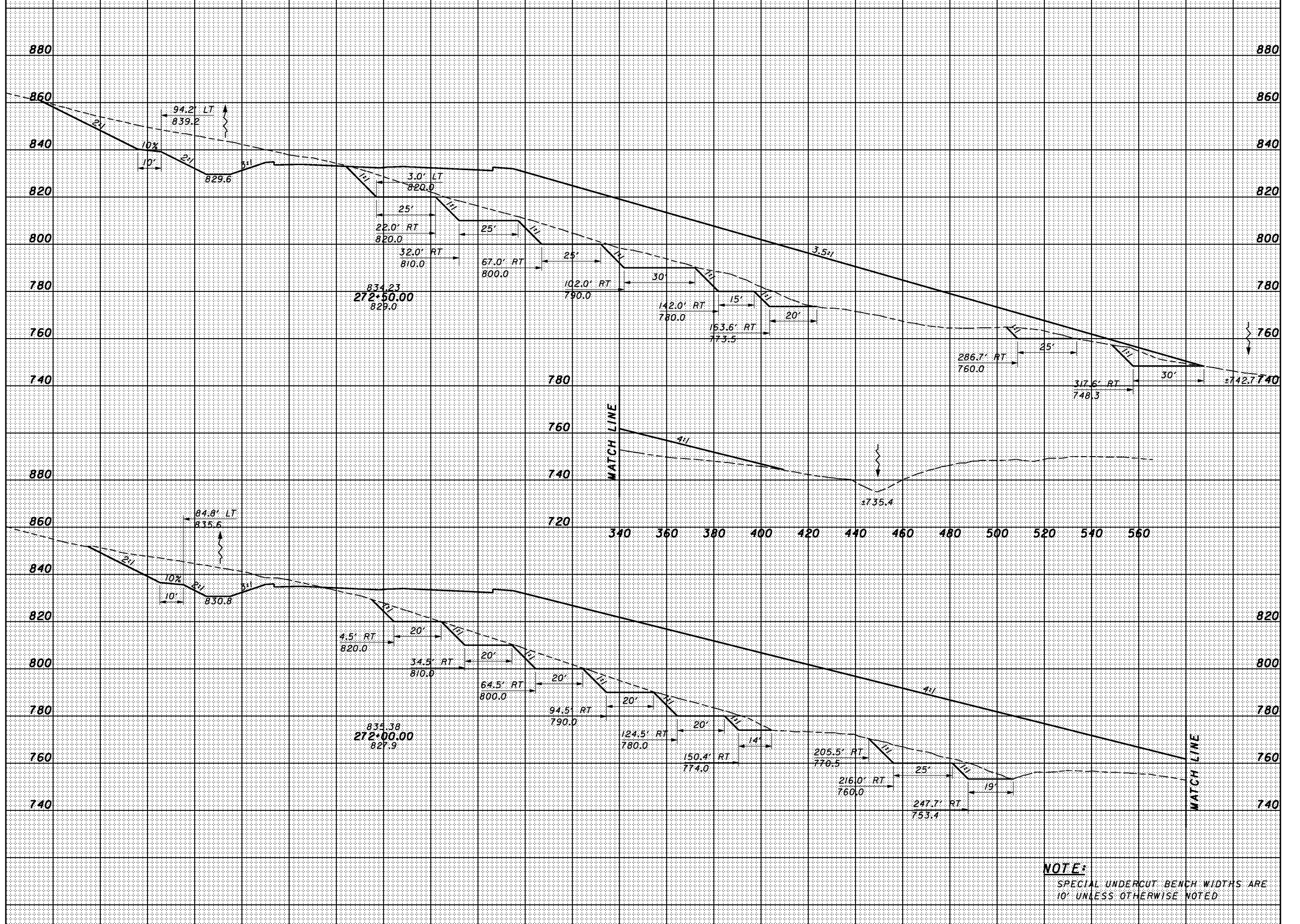
CROSS SECTIONS  
SR823 - STA. 271+00.00 TO STA. 271+50.00

SCI-823-0.00

SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8/5/2010 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823-1.dgn



SHEET TOTAL	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	SHEET TOTAL
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CROSS SECTIONS  
SR823 - STA. 272+00.00 TO STA. 272+50.00

SCI-823-0.00

411



1/30/2008 g:\C003\0064\Road\PHASE 3\T13666xs\_sr-823\_1.dgn 1:26:13 PM

SEEDING	
END WIDTH	SO. YDS.

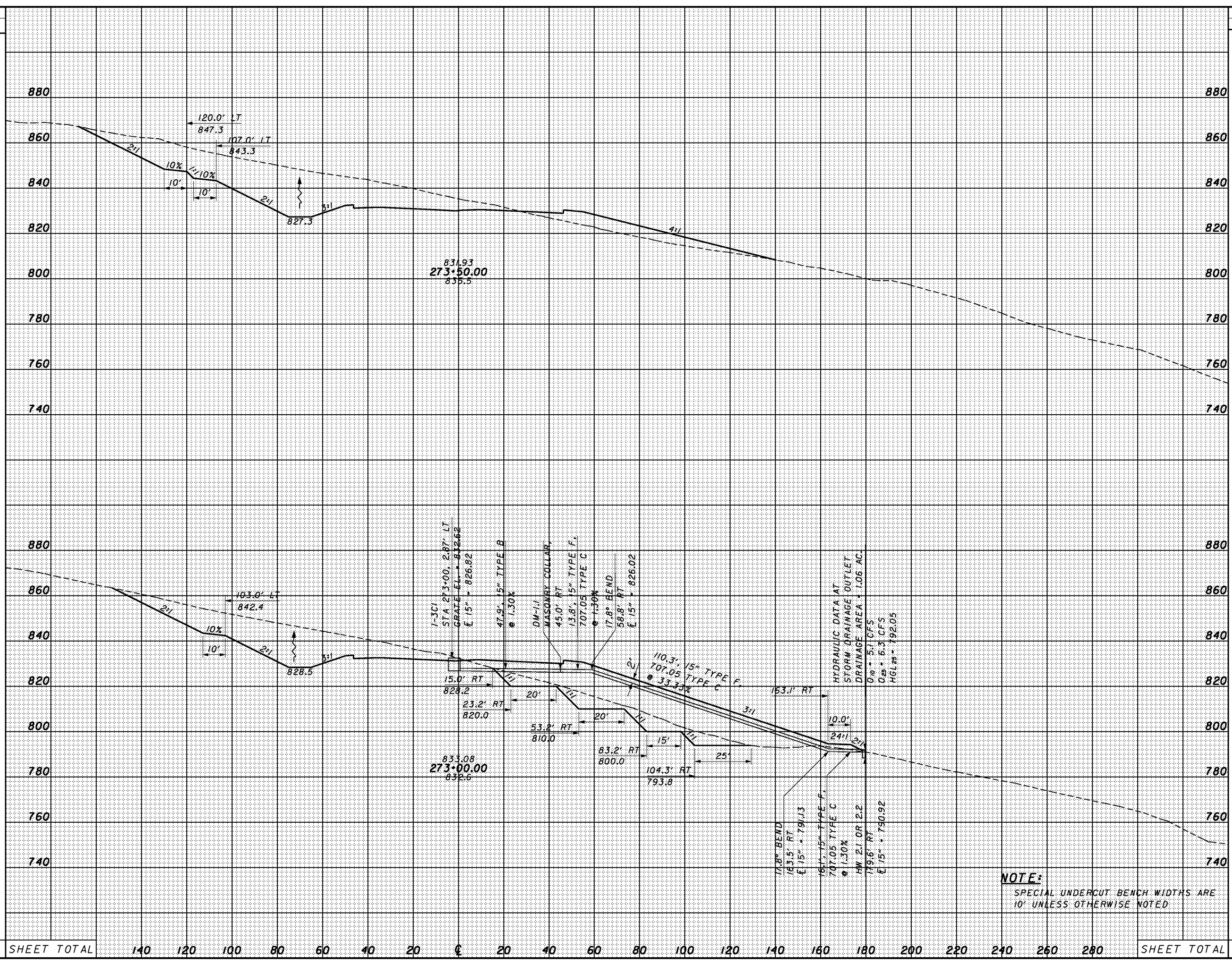
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 273+00.00 TO STA. 273+50.00

SCI-823-0.00

412



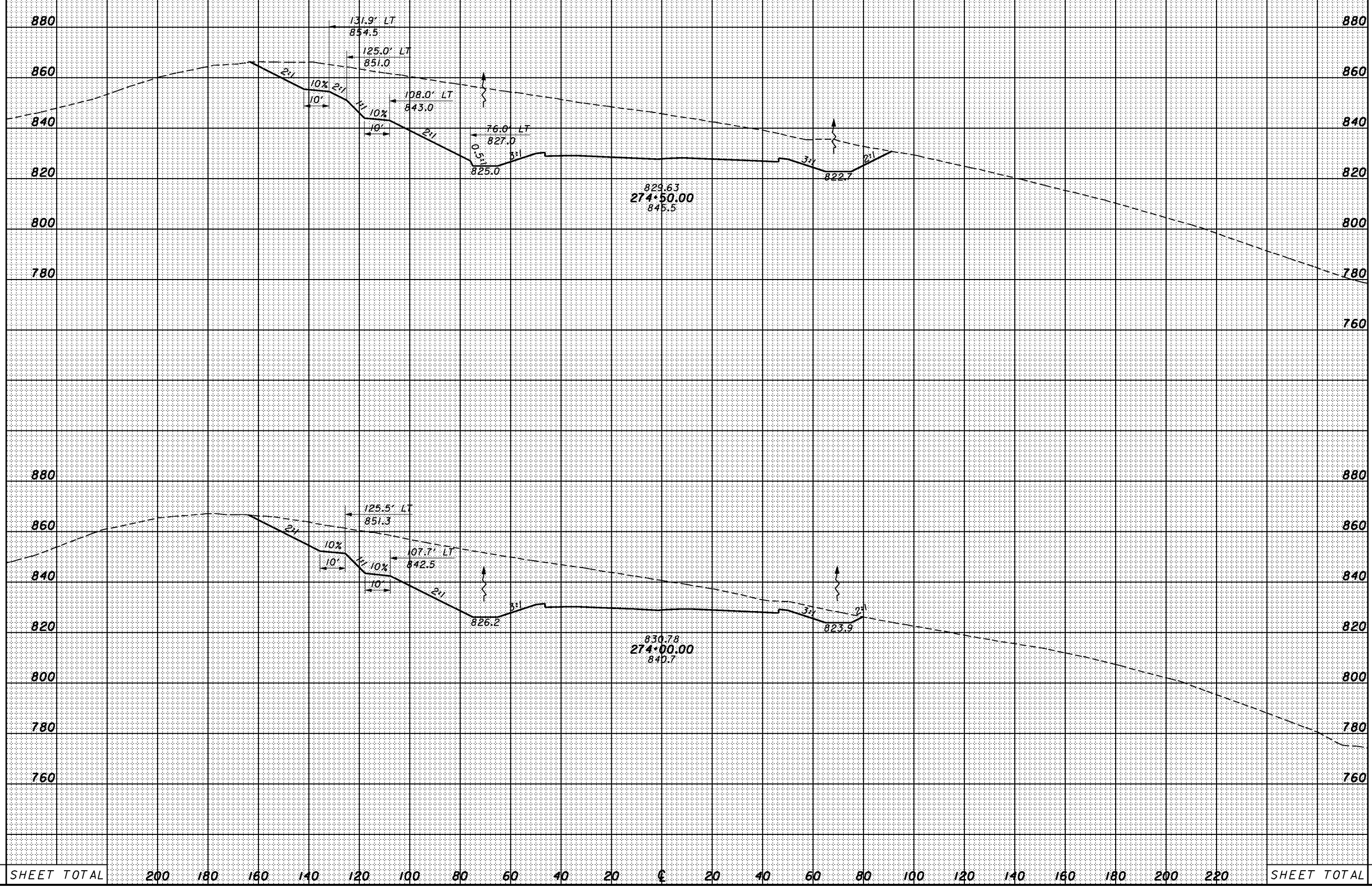
**NOTE:**  
SPECIAL UNDERCUT BENCH WIDTHS ARE 10' UNLESS OTHERWISE NOTED.

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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8/5/08 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



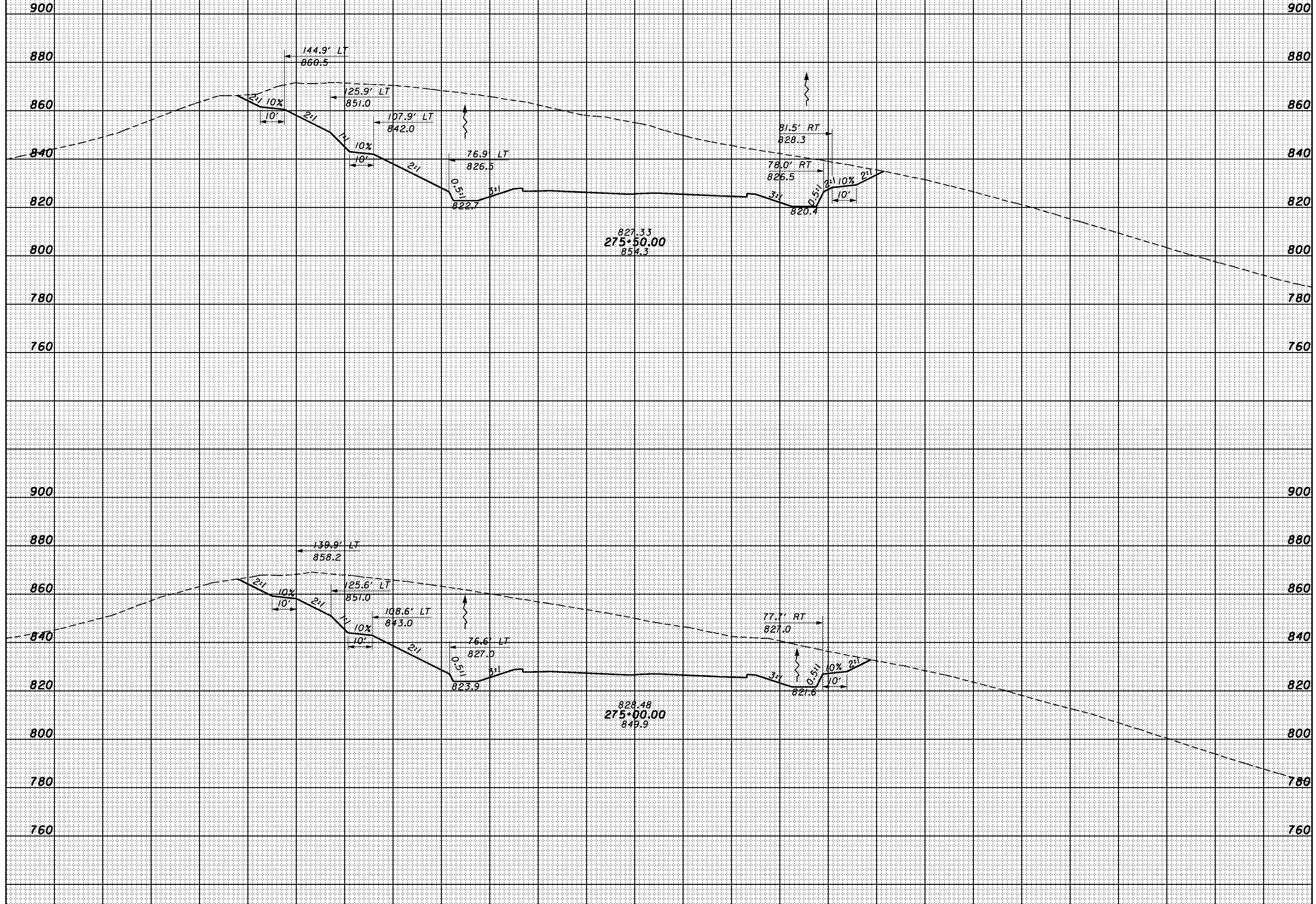
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS  
SR823 - STA. 274+00.00 TO STA. 274+50.00

SCI-823-0.00

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. 275+00.00 TO STA. 275+50.00

SCI-823-0.00

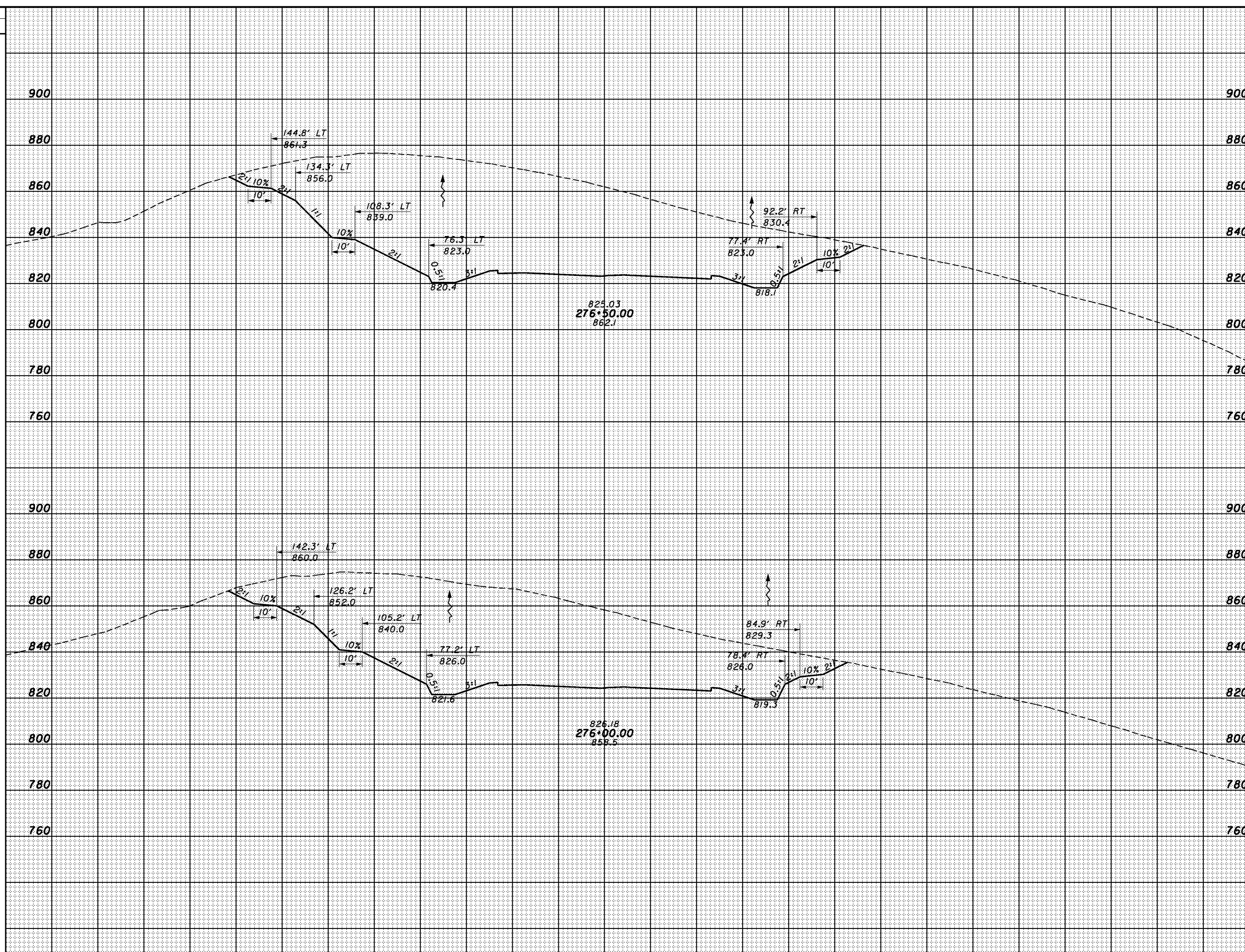
8/5/2008 11:30/2008 G:\C003\0064\Road\PHASE 3\T13668s-sr-823\_1.dgn



845910\_AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13666xs-sr-823\_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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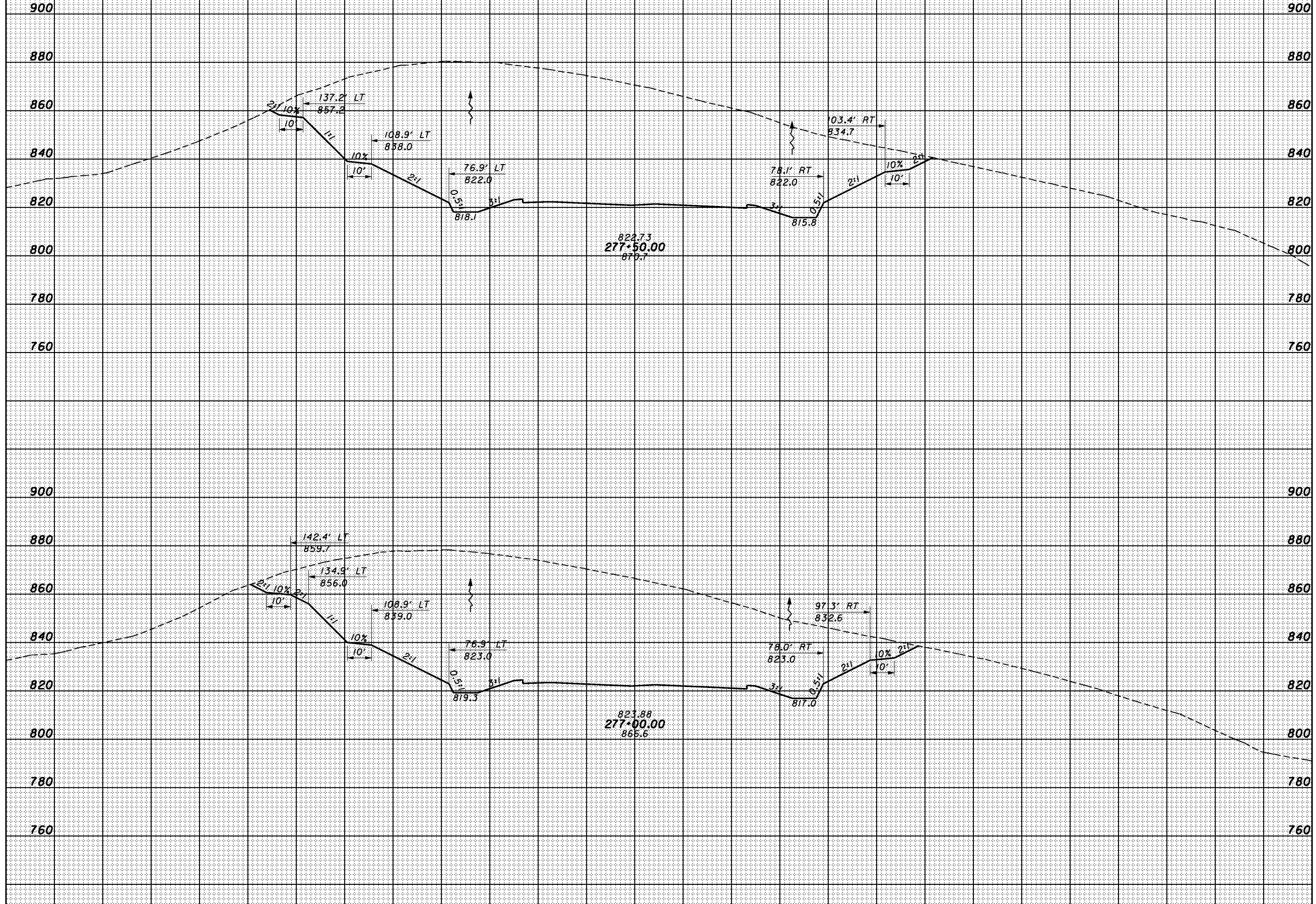
CROSS SECTIONS  
SR823 - STA. 276+00.00 TO STA. 276+50.00

SCI-823-0.00

SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8/5/2008 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823.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

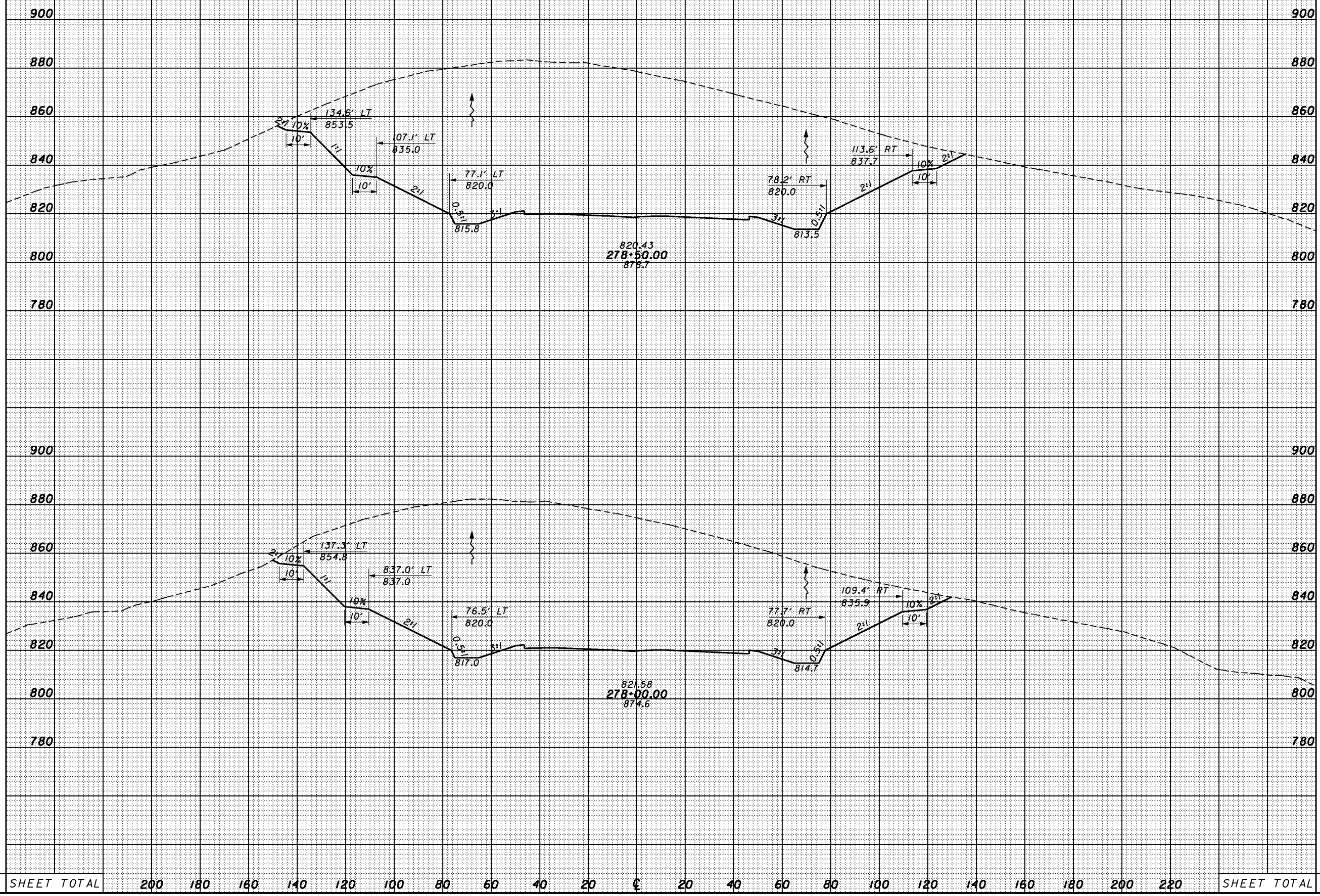
CROSS SECTIONS  
SR823 - STA. 277+00.00 TO STA. 277+50.00

SCI-823-0.00

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

SCI-823-0.00      CROSS SECTIONS      SR823 - STA. 278+00.00 TO STA. 278+50.00



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SEEDING	
END WIDTH	SO. YDS.

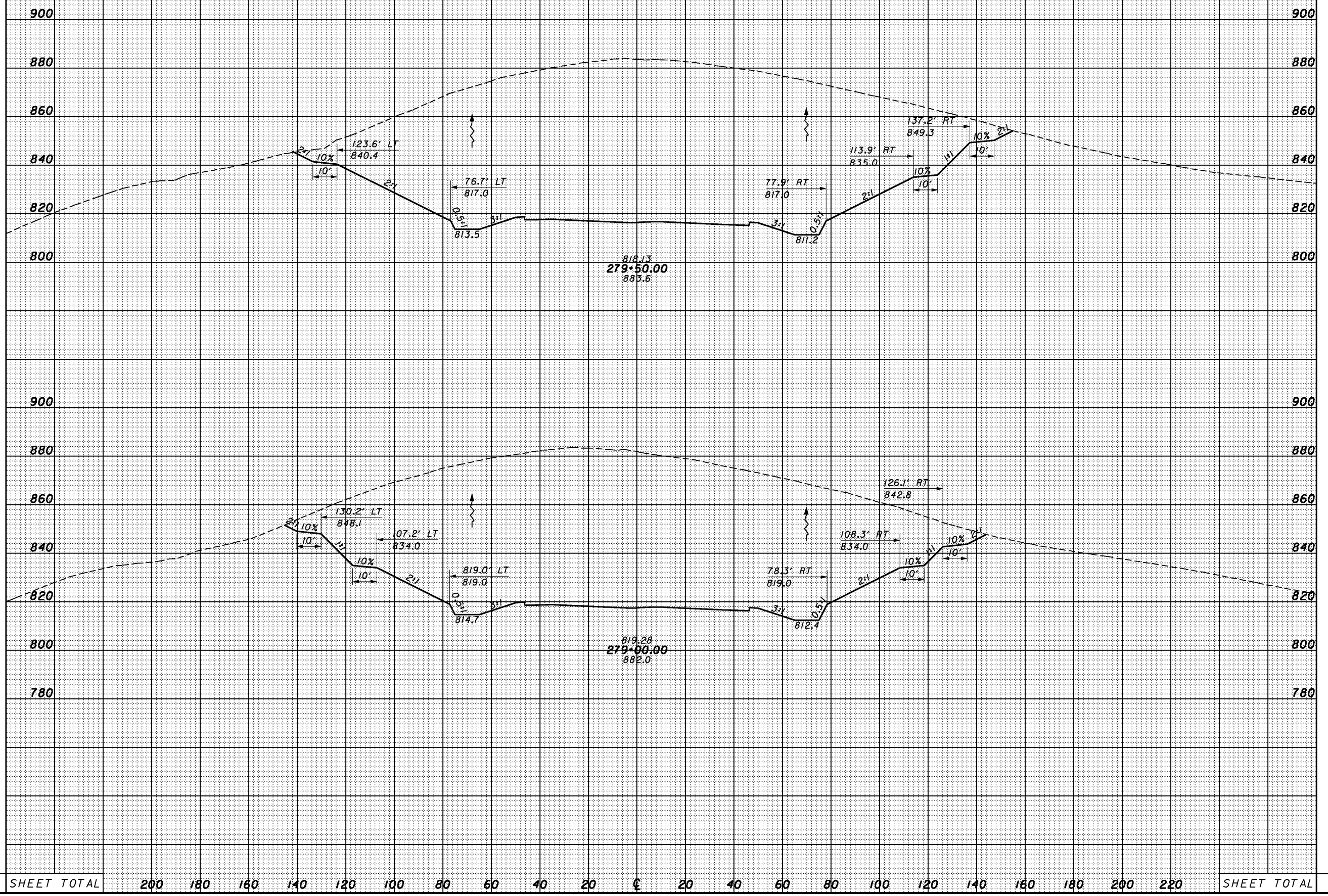
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 279+00.00 TO STA. 279+50.00

SCI-823-0.00

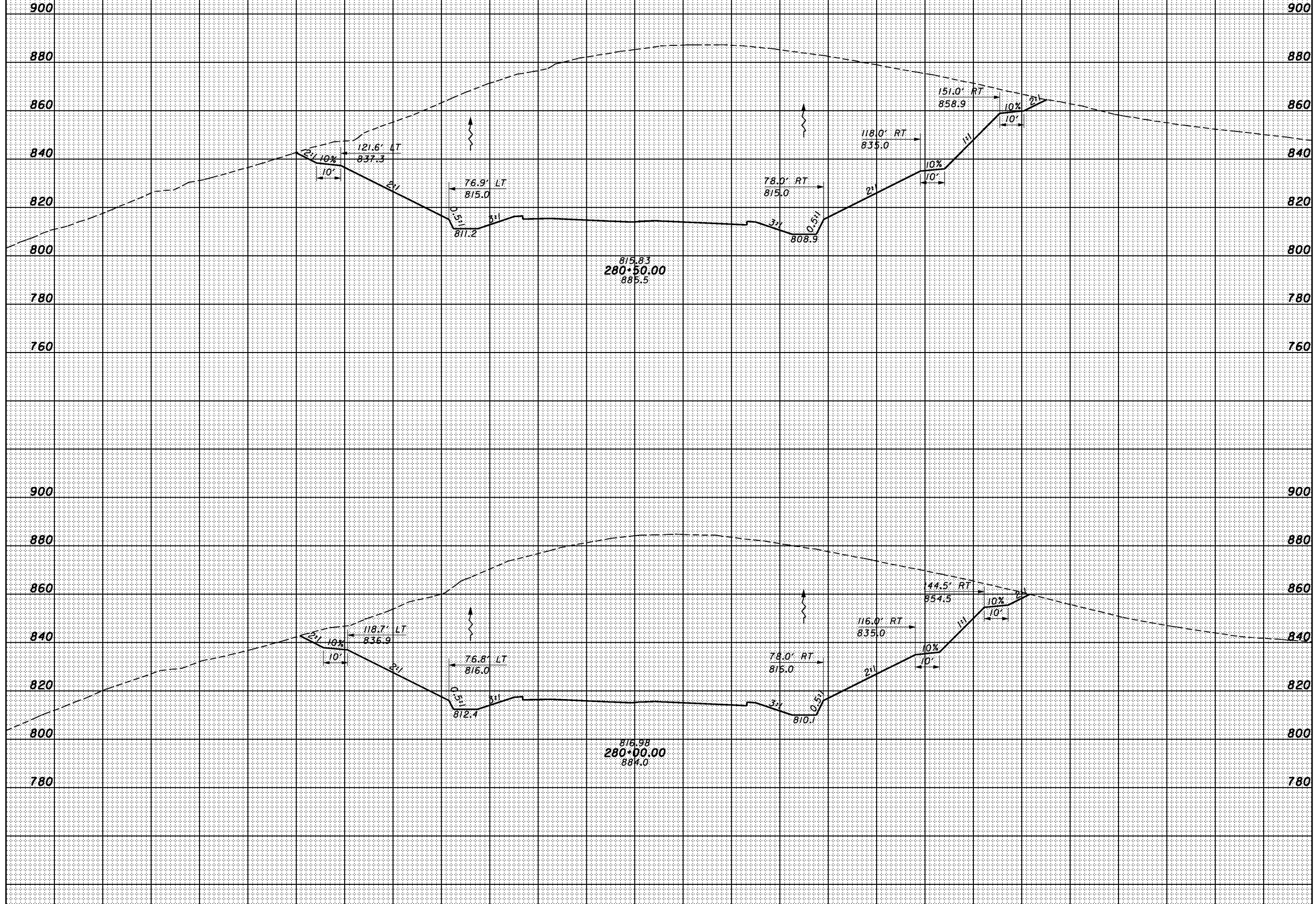
418



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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	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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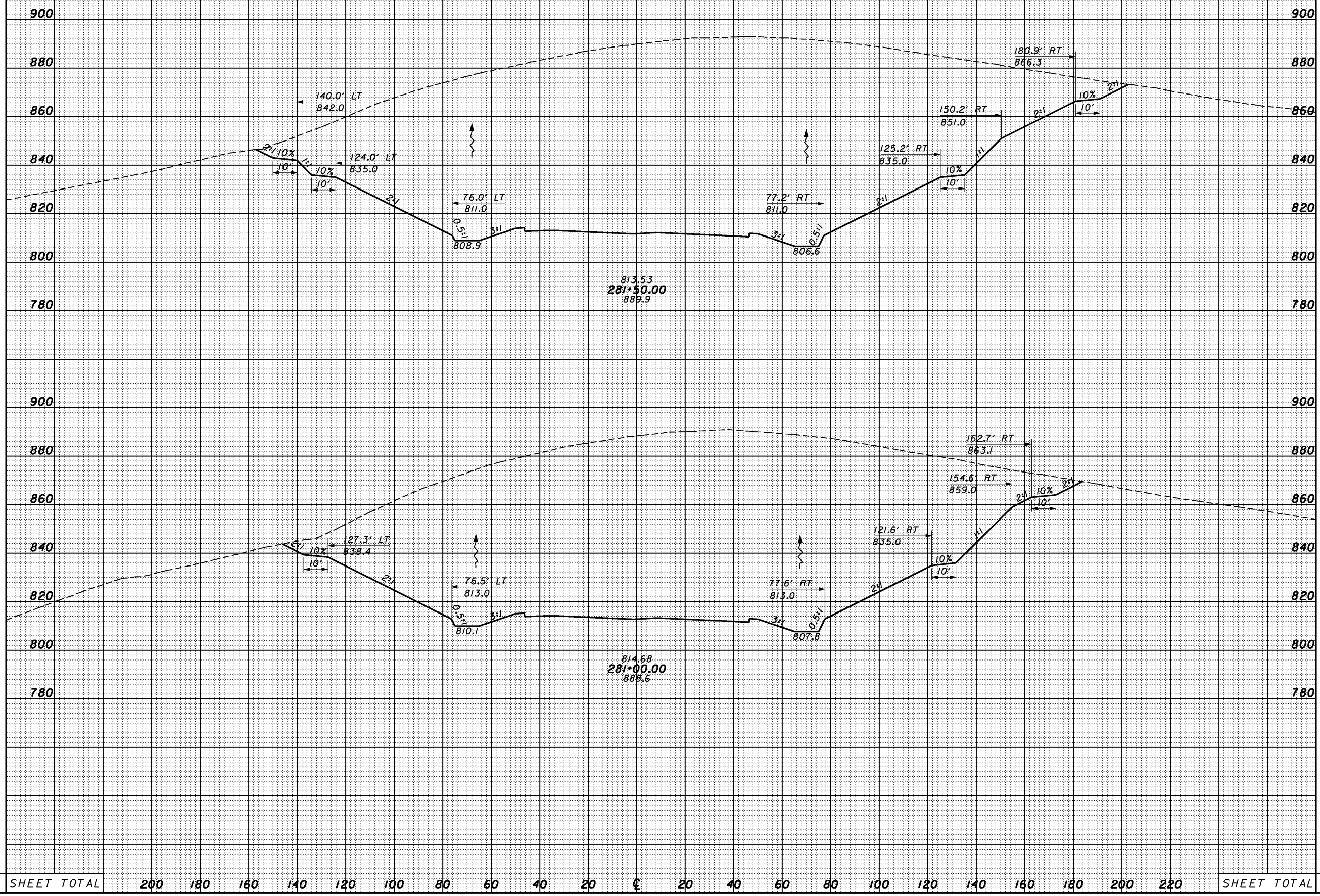
CROSS SECTIONS  
SR823 - STA. 280+00.00 TO STA. 280+50.00

SCI-823-0.00

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

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813.53  
281+50.00  
889.9

814.68  
281+00.00  
888.6

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. 281+00.00 TO STA. 281+50.00

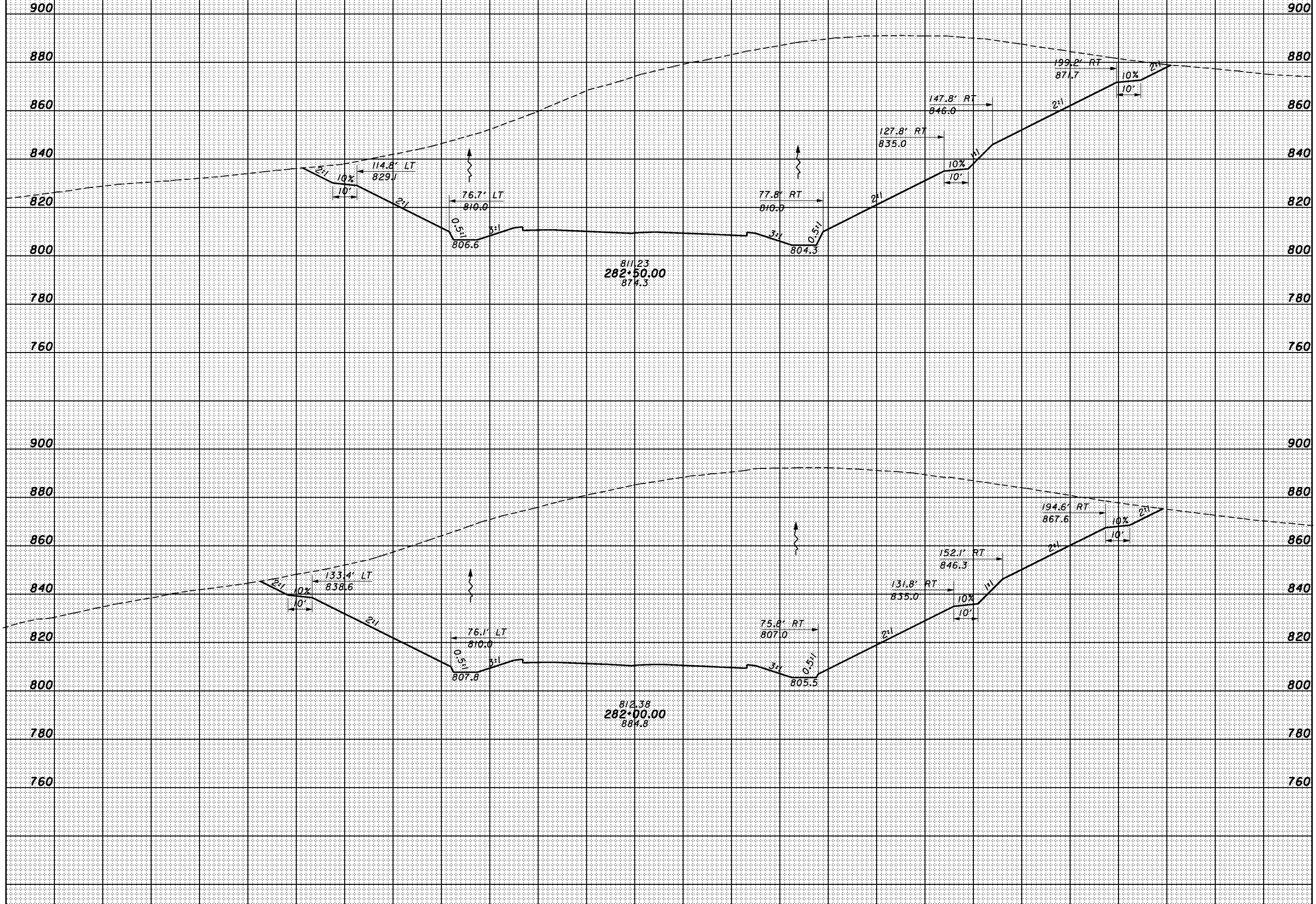
SCI-823-0.00



SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

845916 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823-1.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. 282+00.00 TO STA. 282+50.00

SCI-823-0.00

8:59:17 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668xs-sr-823\_1.dgn

SEEDING	
END WIDTH	SO. YDS.

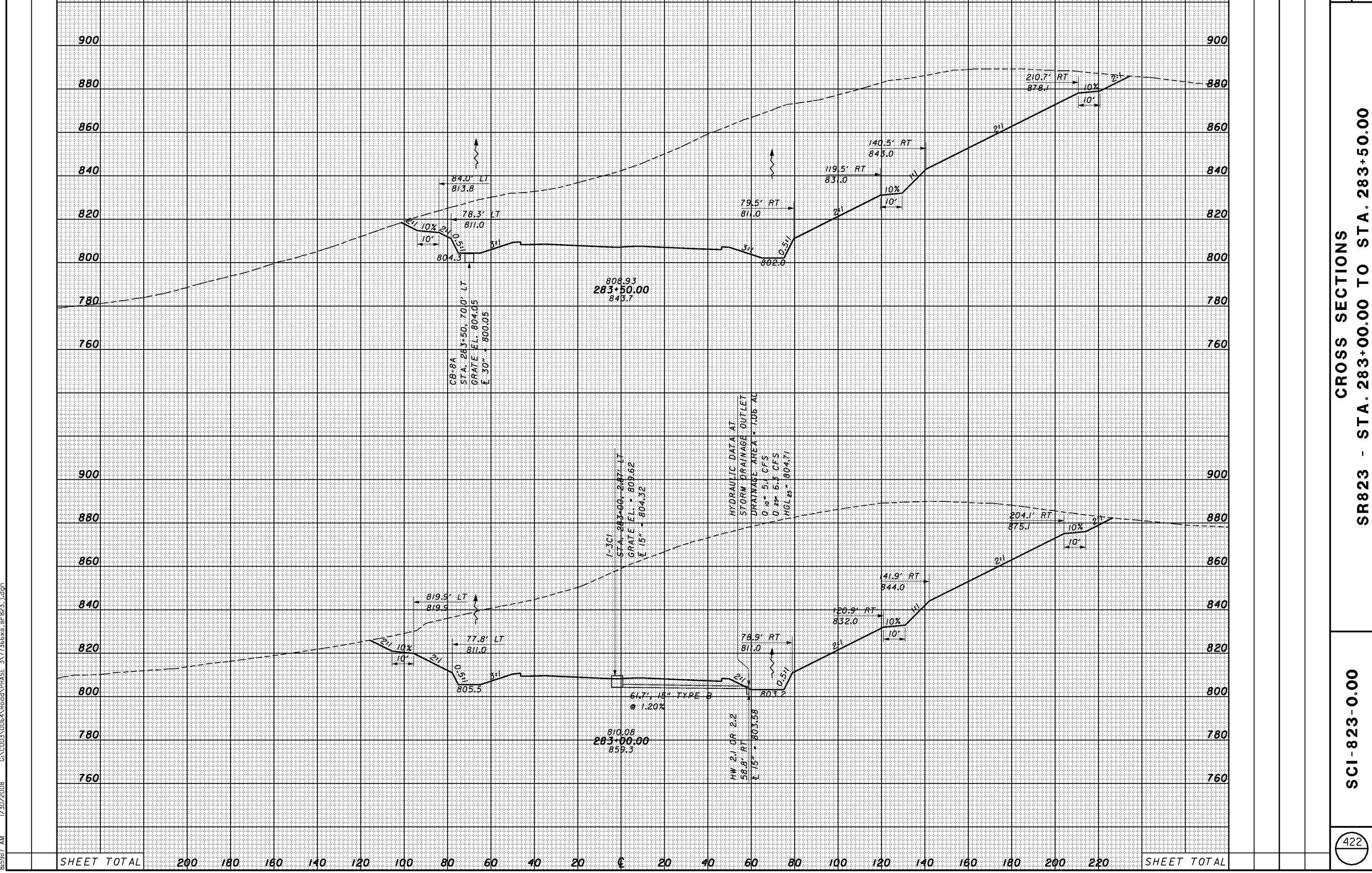
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 283+00.00 TO STA. 283+50.00

SCI-823-0.00

422



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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8:59:18 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823\_1.dgn

SEEDING	
END WIDTH	SO. YDS.

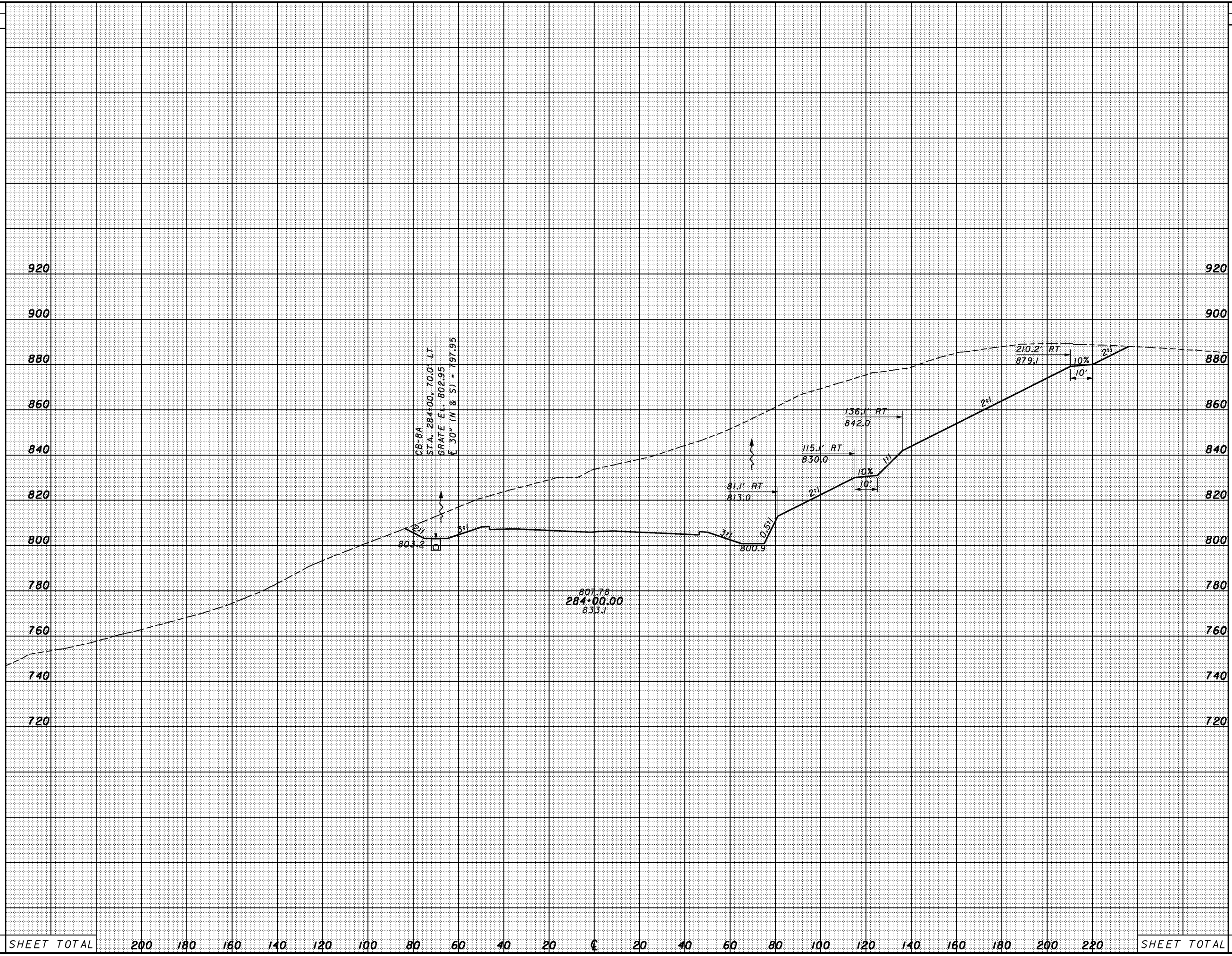
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 284+00.00

SCI-823-0.00

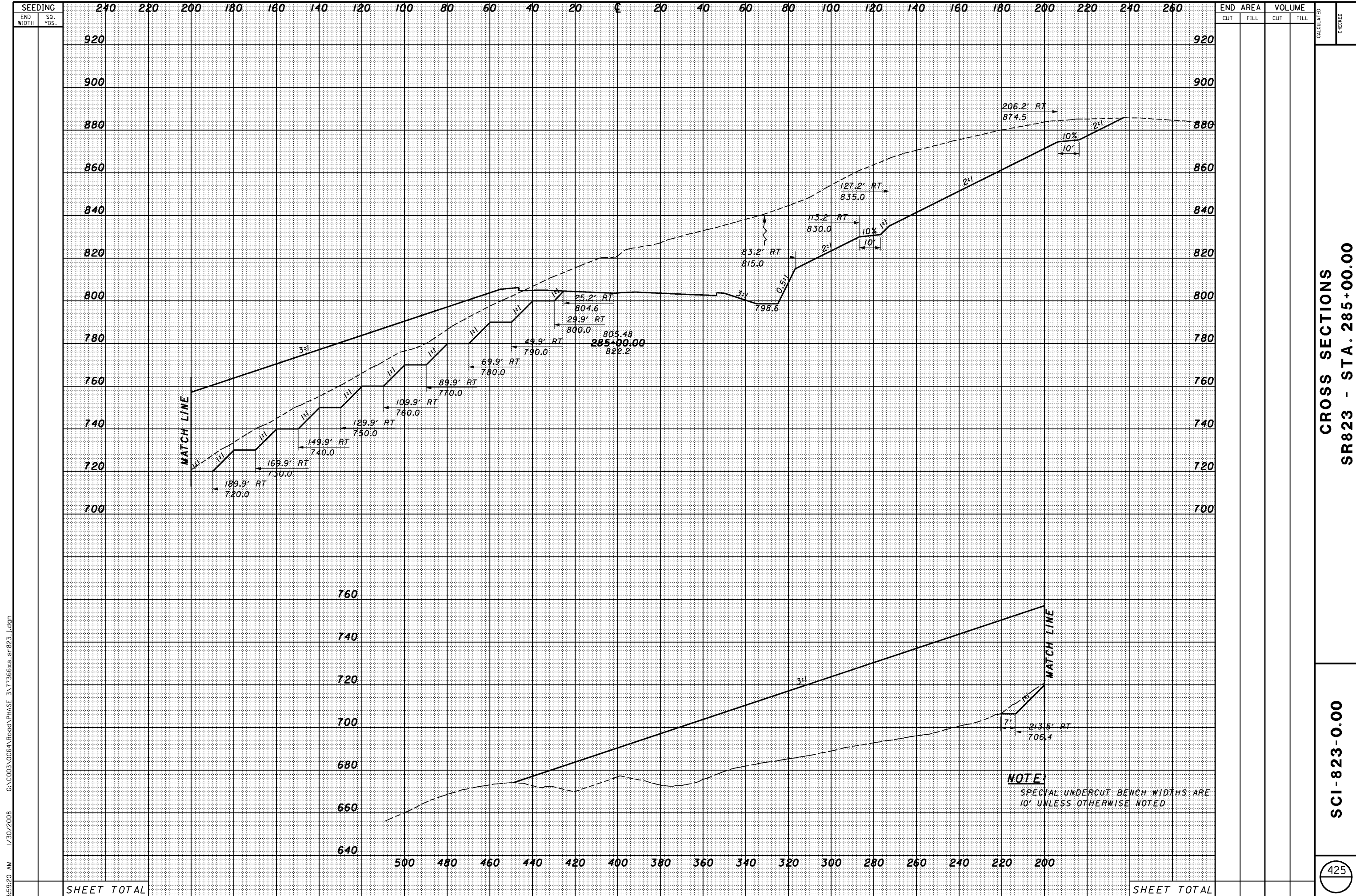
423



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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8/5/20 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823\_1.dgn

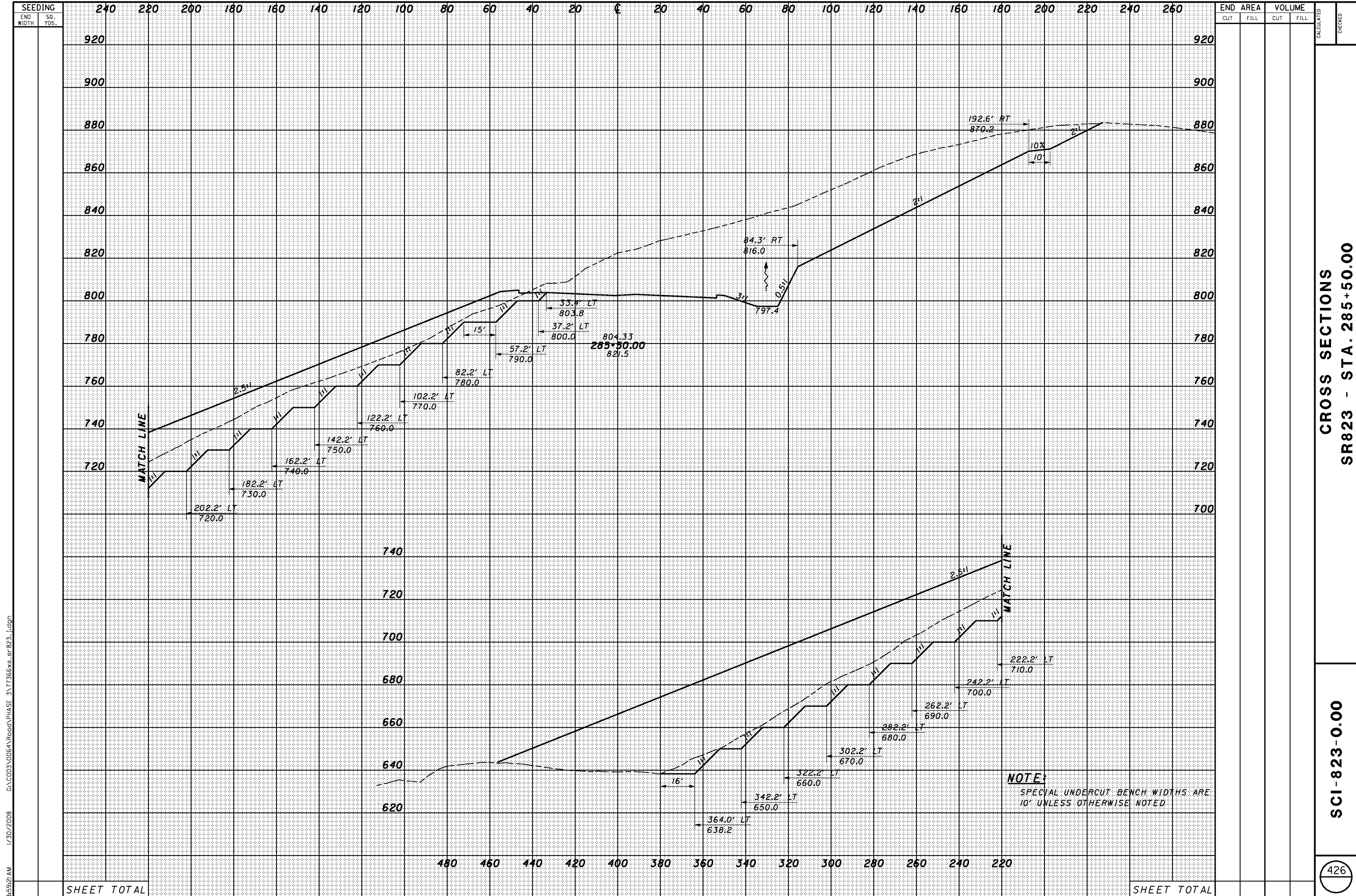
SHEET TOTAL

SHEET TOTAL

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

**CROSS SECTIONS**  
**SR823 - STA. 285+00.00**

**SCI-823-0.00**



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SHEET TOTAL

SHEET TOTAL

END	AREA		VOLUME		CALCULATED	CHECKED
	CUT	FILL	CUT	FILL		

**CROSS SECTIONS**  
**SR823 - STA. 285+50.00**

**SCI-823-0.00**



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SEEDING	
END WIDTH	SO. YDS.

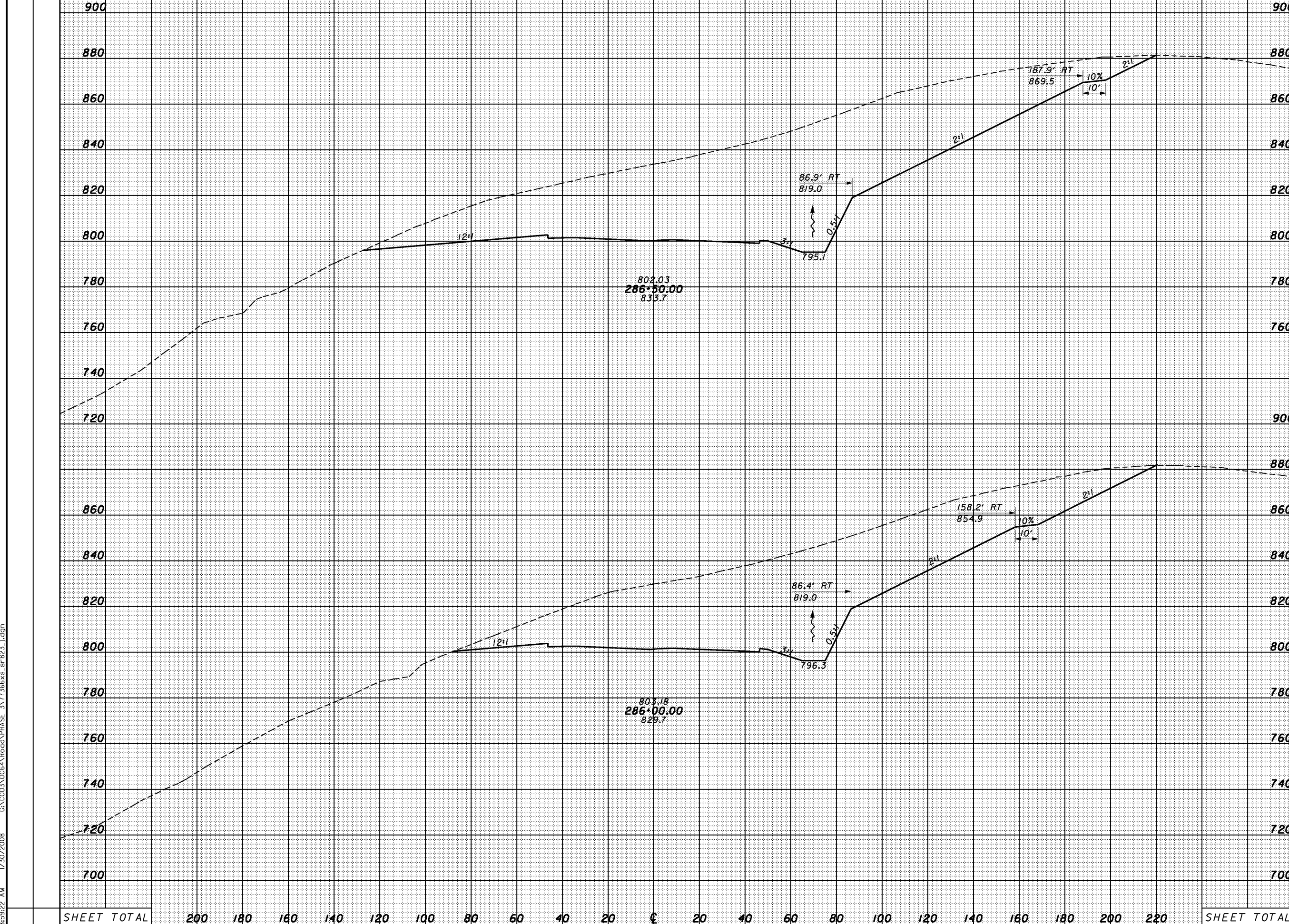
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 286+00.00 TO STA. 286+50.00

SCI-823-0.00

427

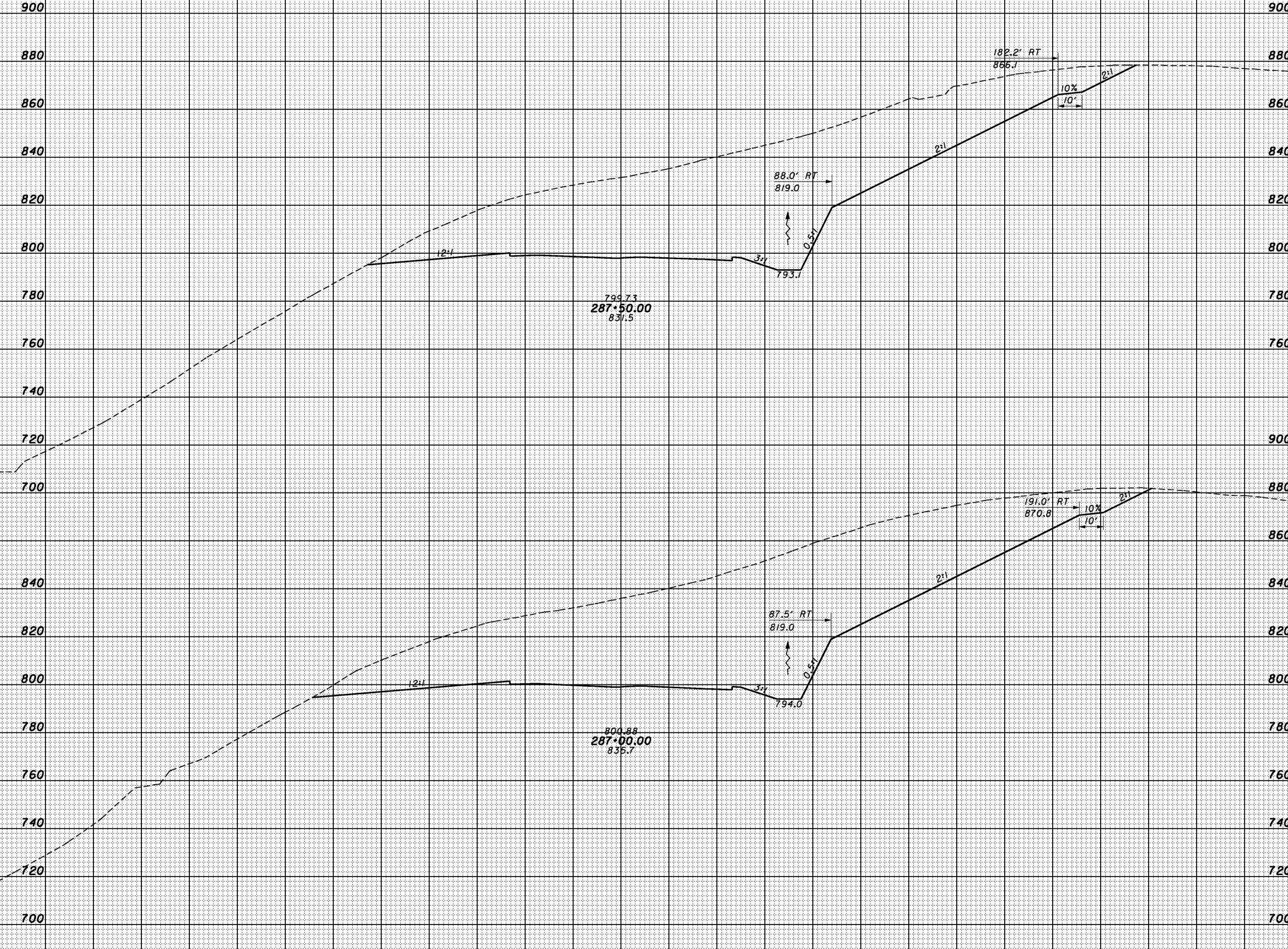


200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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8/5/23 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_1.dgn

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	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS  
SR823 - STA. 287+00.00 TO STA. 287+50.00

SCI-823-0.00

8/5/24 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366xs-sr-823\_1.dgn

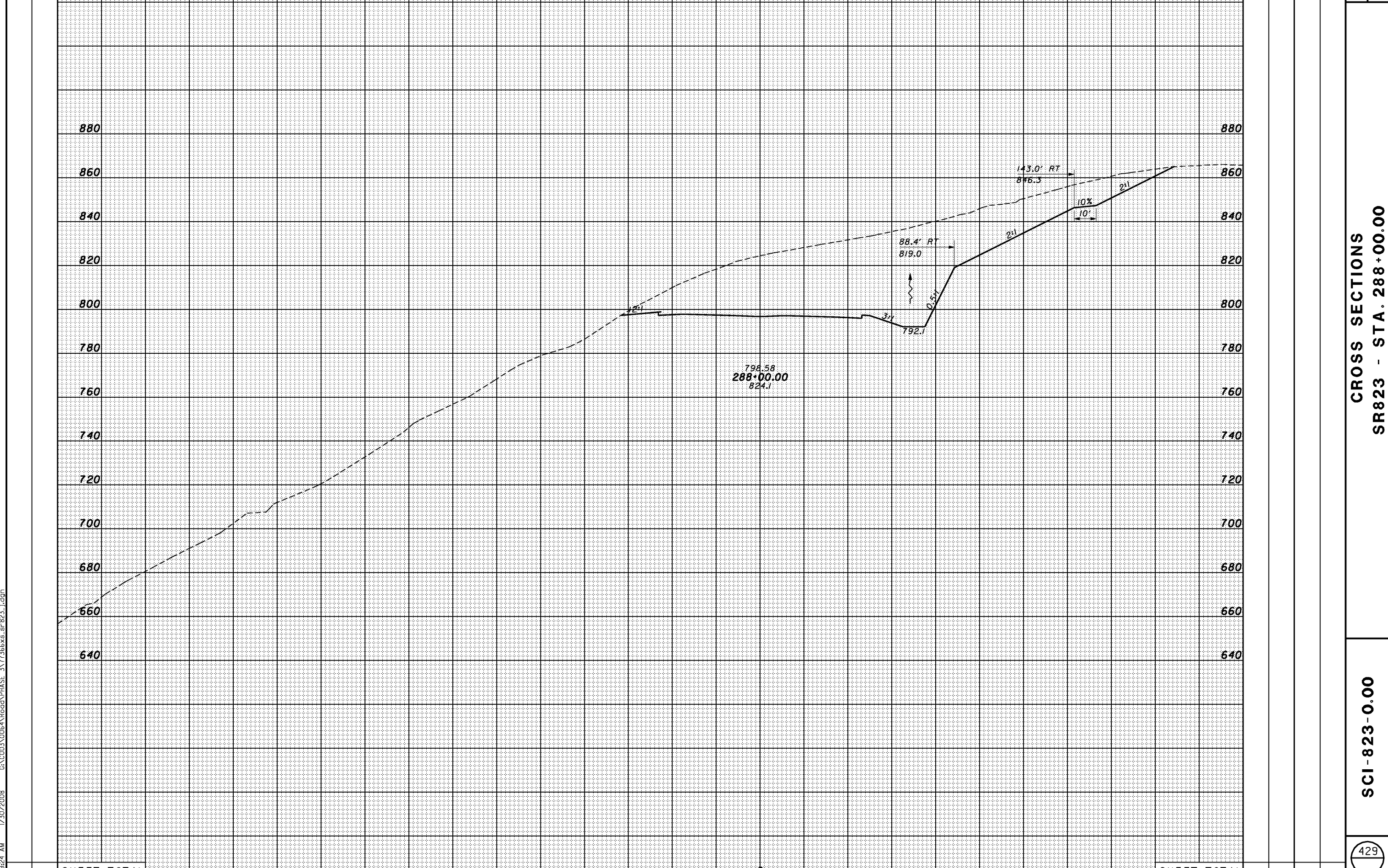
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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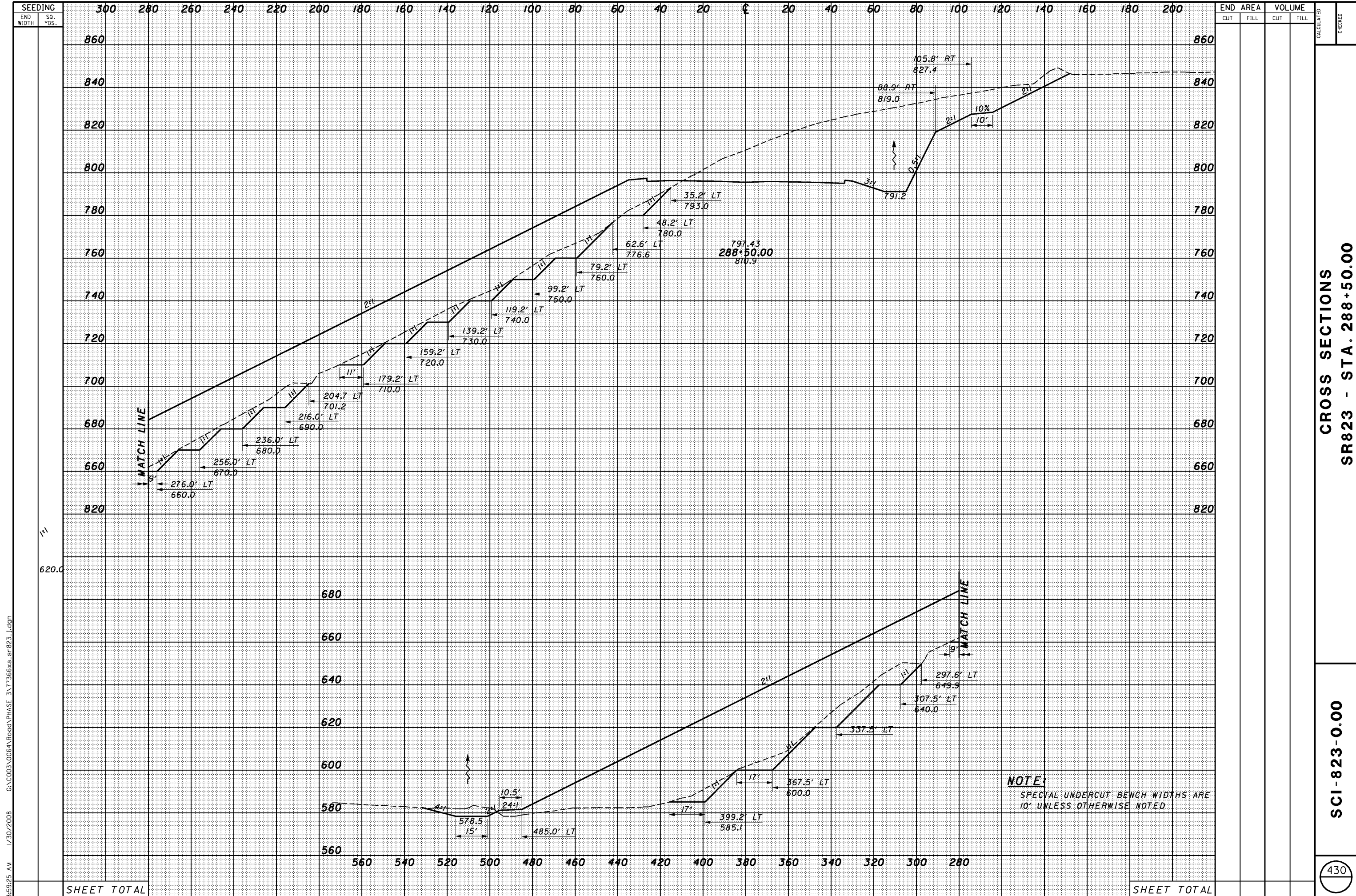
CROSS SECTIONS  
SR823 - STA. 288+00.00

SCI-823-0.00



SHEET TOTAL	260	240	220	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	SHEET TOTAL
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8/5/25 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13666xs-sr-823\_1.dgn

SHEET TOTAL

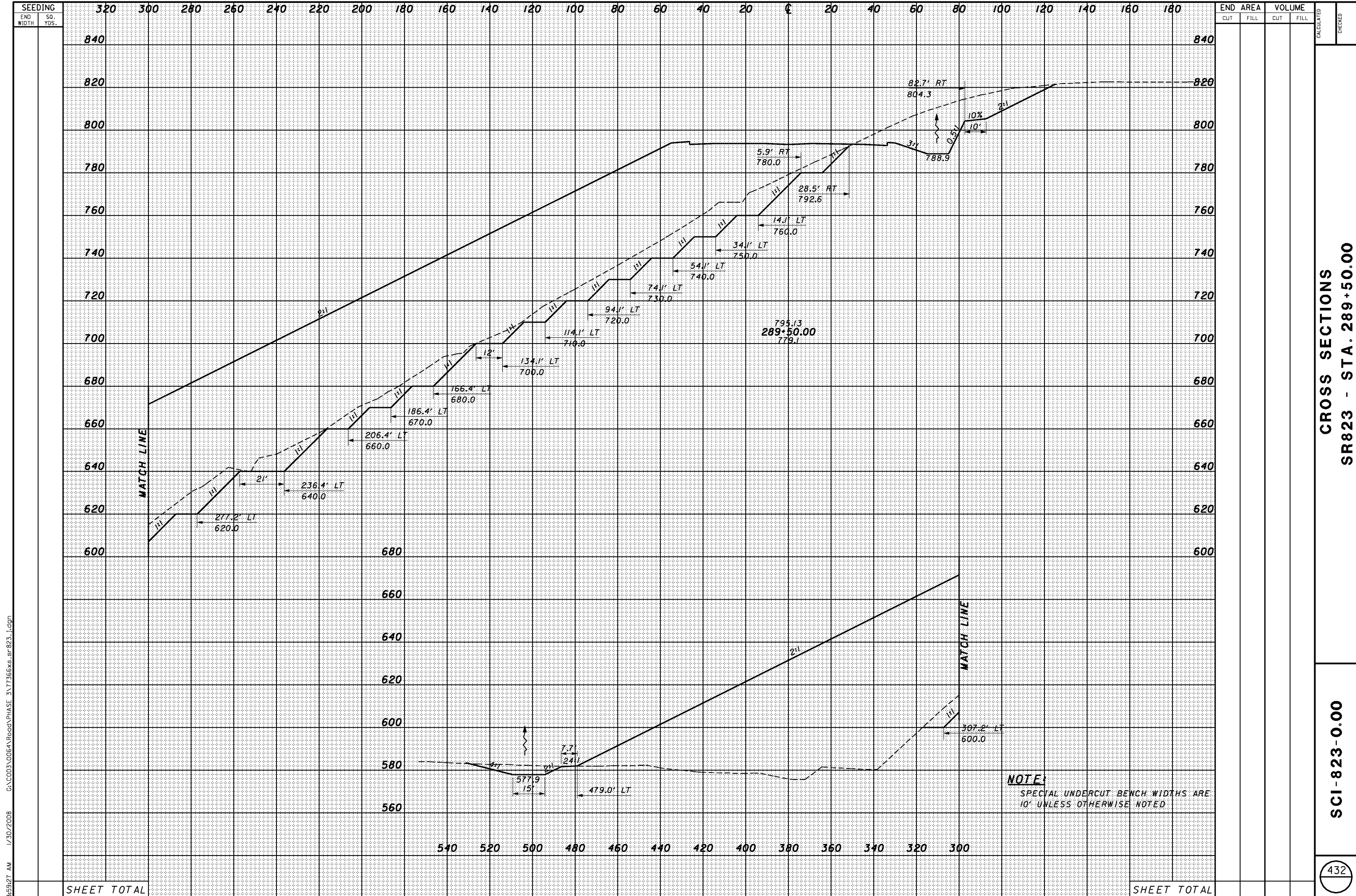
SHEET TOTAL

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

**CROSS SECTIONS**  
**SR823 - STA. 288+50.00**

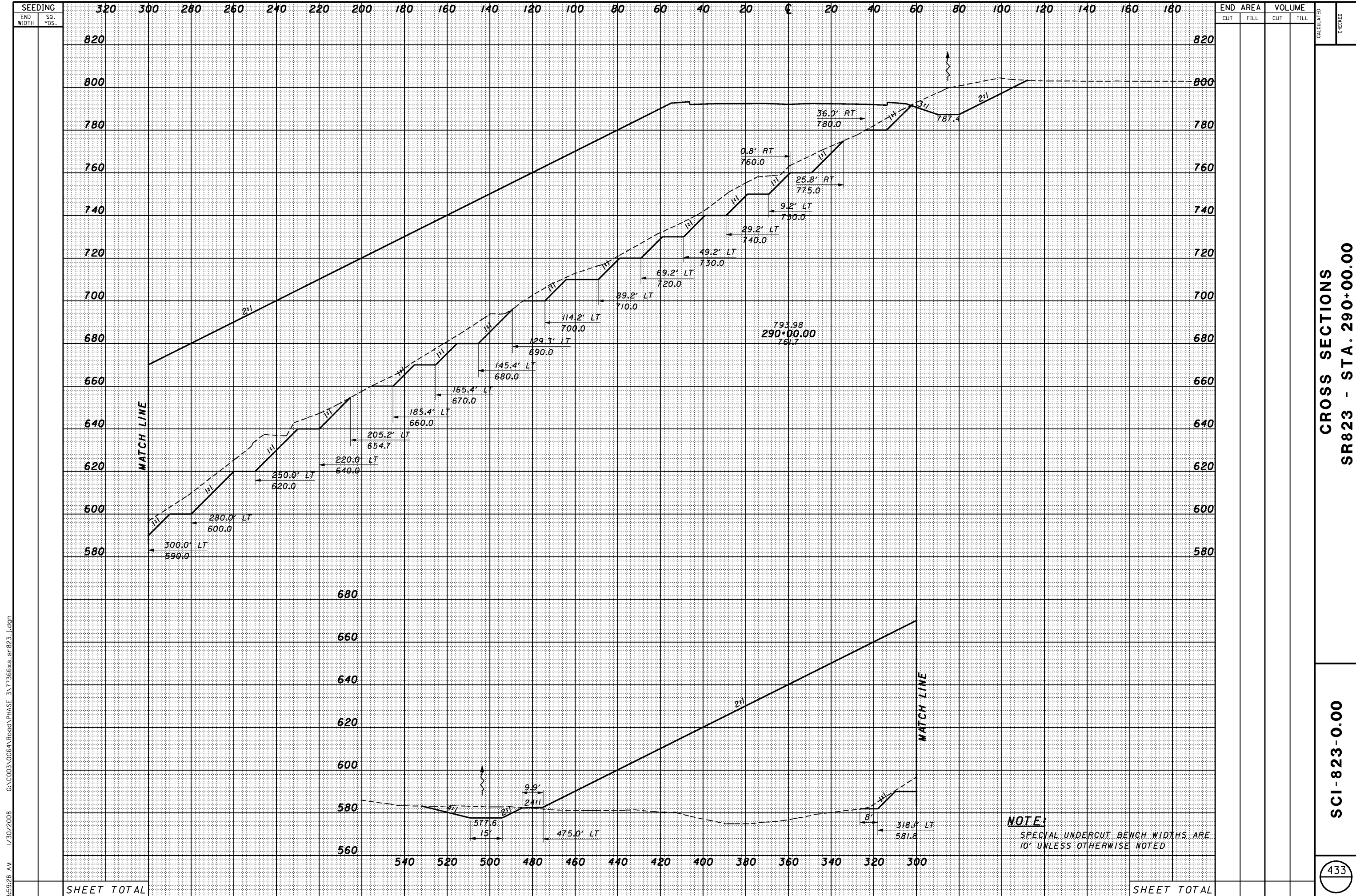
**SCI-823-0.00**





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END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

**CROSS SECTIONS**  
**SR823 - STA. 290+00.00**

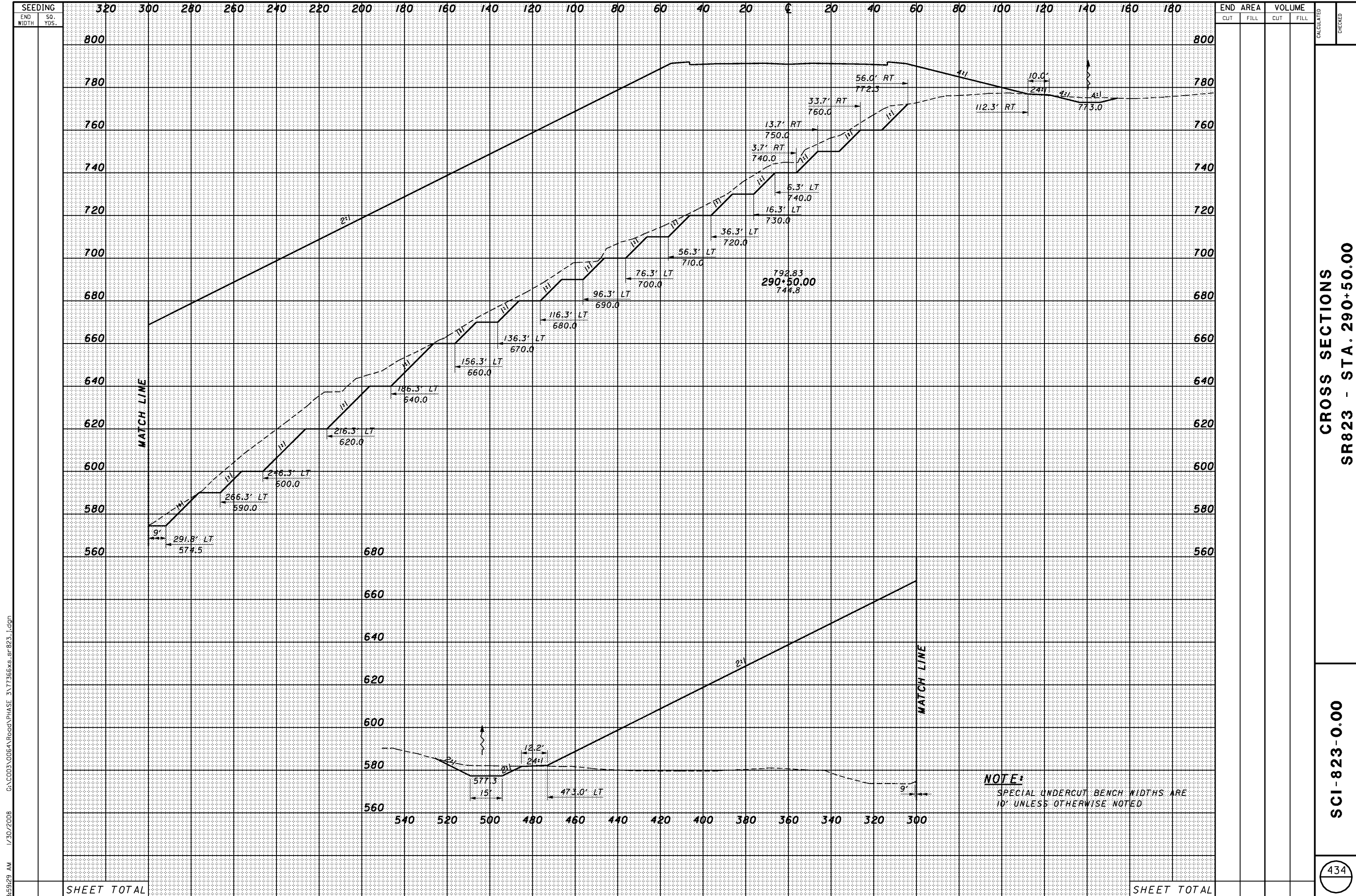
**SCI-823-0.00**

433

8/5/28 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13666xs-sr-823\_1.dgn

SHEET TOTAL

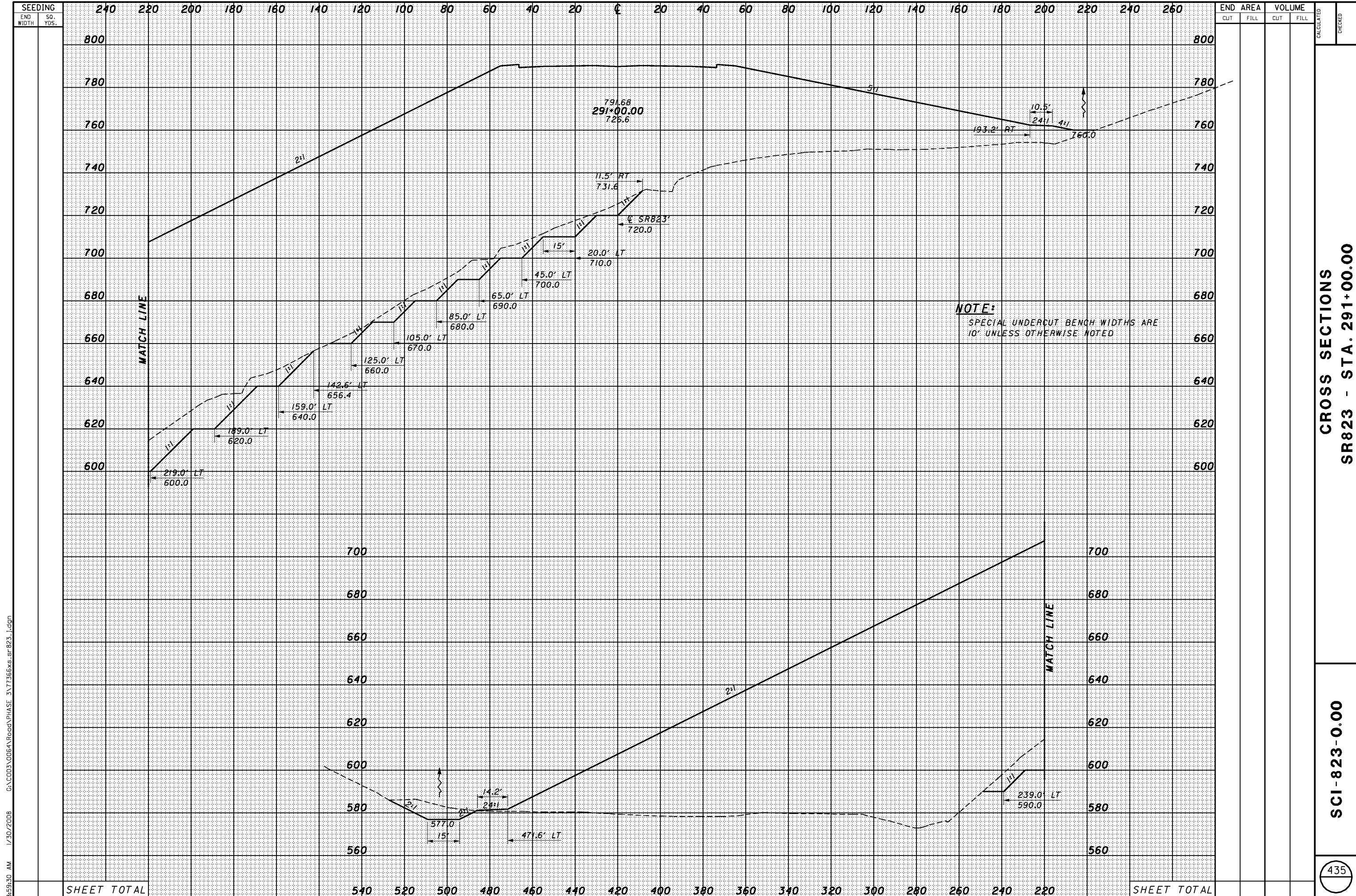
SHEET TOTAL



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

CALCULATED	CHECKED	END AREA		VOLUME	
		CUT	FILL	CUT	FILL
		<b>CROSS SECTIONS</b> <b>SR823 - STA. 290+50.00</b>			
		<b>SCI-823-0.00</b>			
		<span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">434</span>			

8/5/2008 11:30/2008 G:\C003\0064\Road\PHASE 3\T13666xs-sr-823.dgn



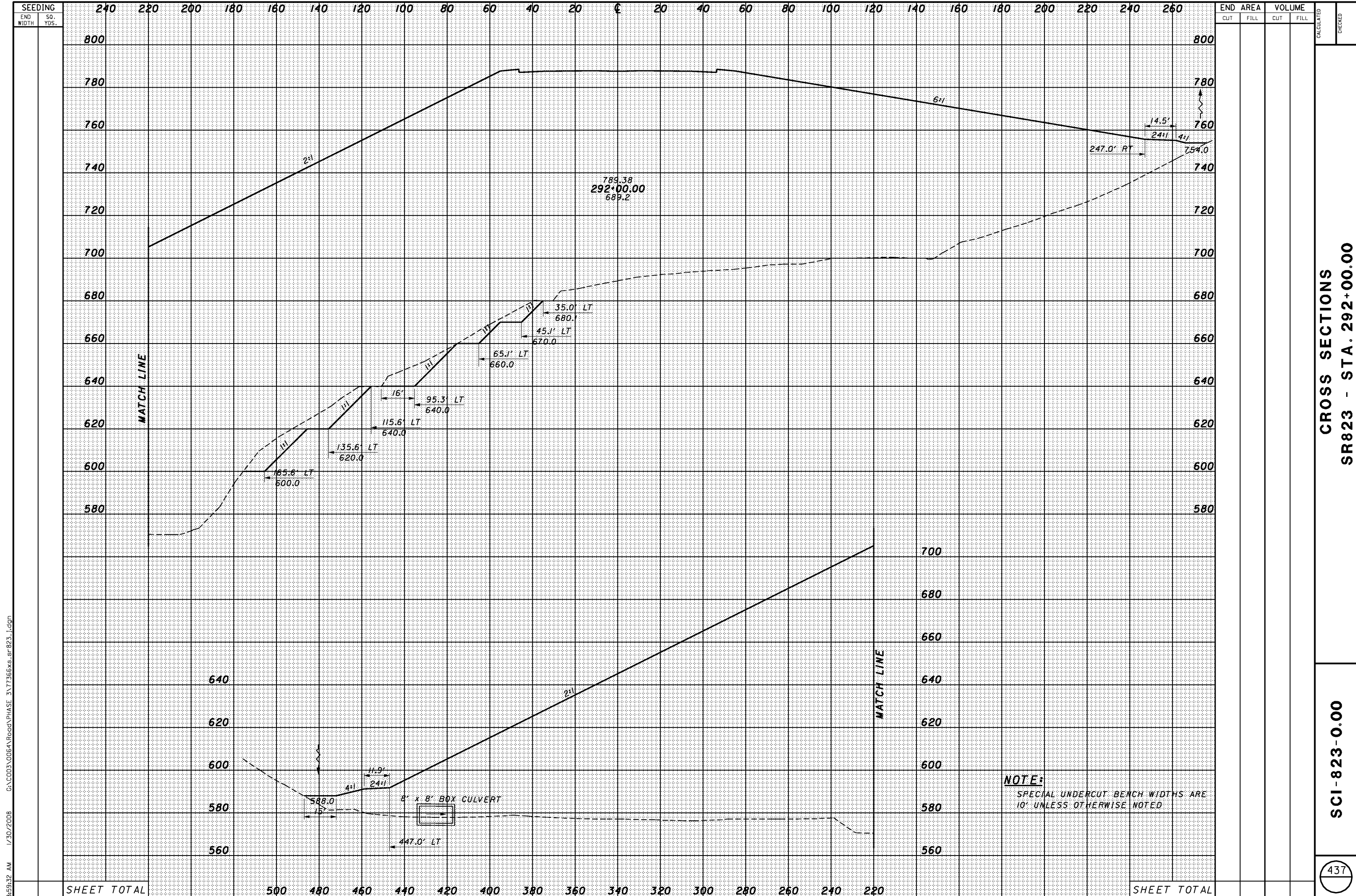
8:59:30 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_1.dgn

SHEET TOTAL

SHEET TOTAL

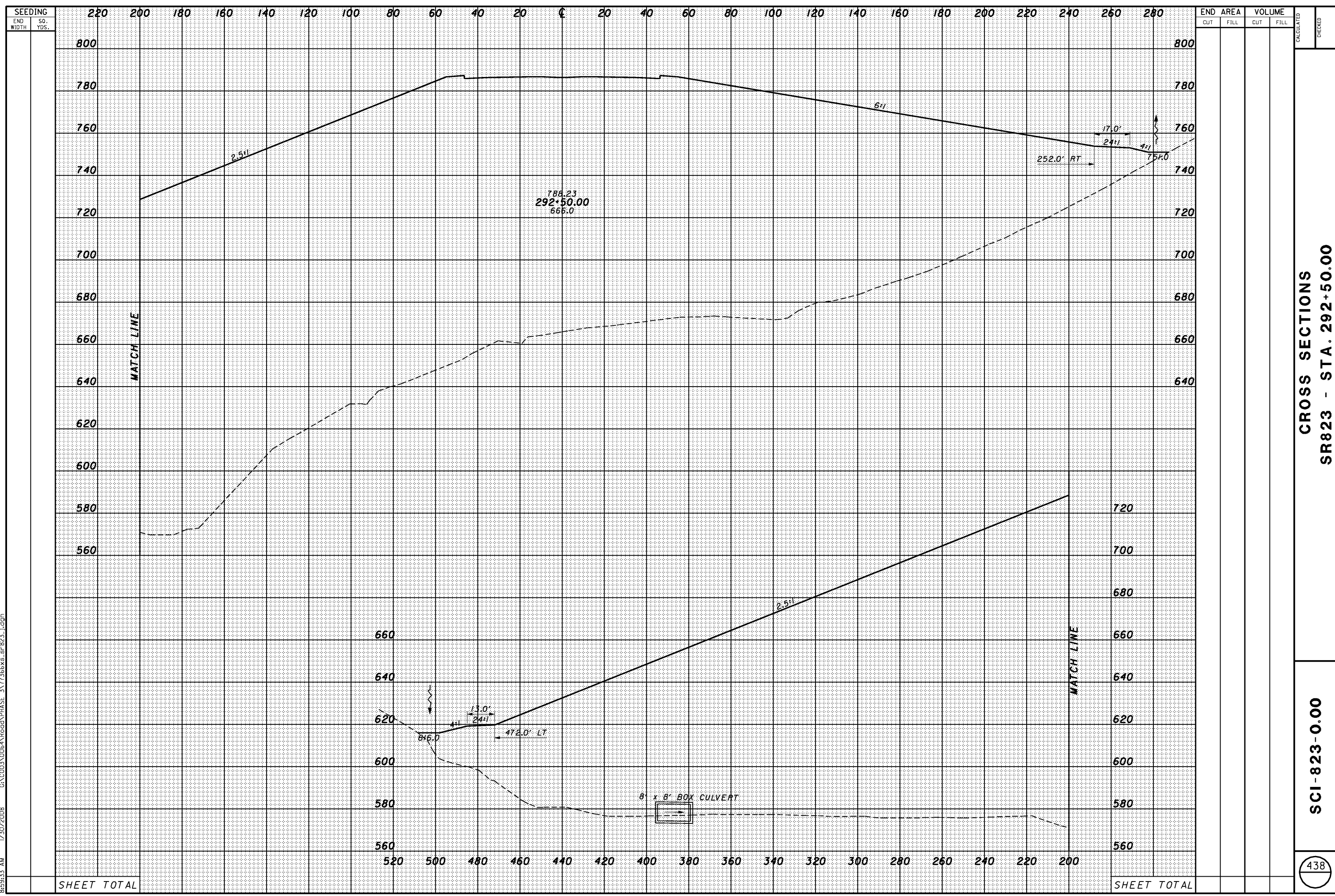






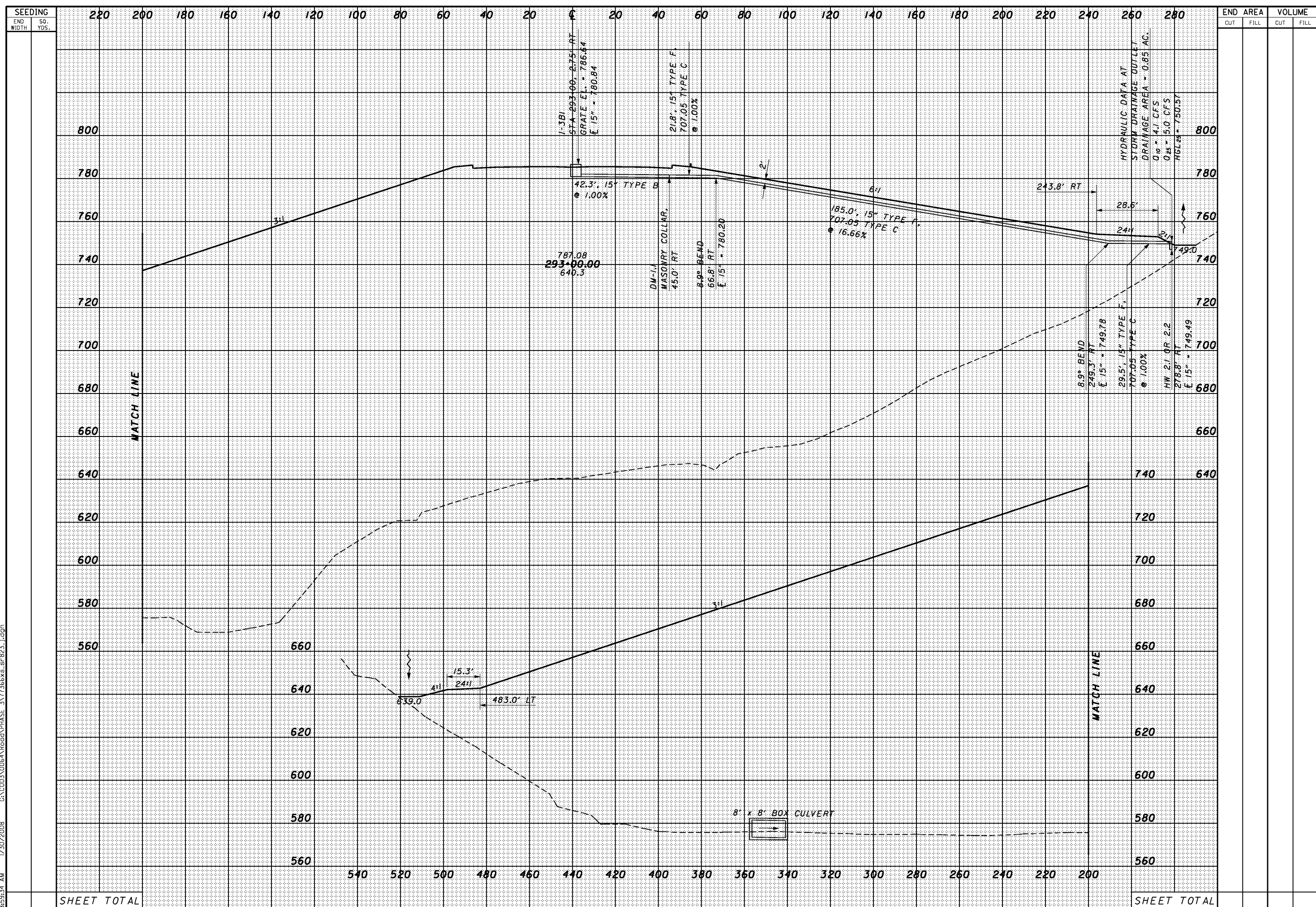
8/5/2008 1/30/2008 G:\C003\0064\Road\PHASE 3\T13666xs-sr-823\_1.dgn

8:59:33 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823\_1.dgn





8/5/34 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713666xs-sr-823\_1.dgn



SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED

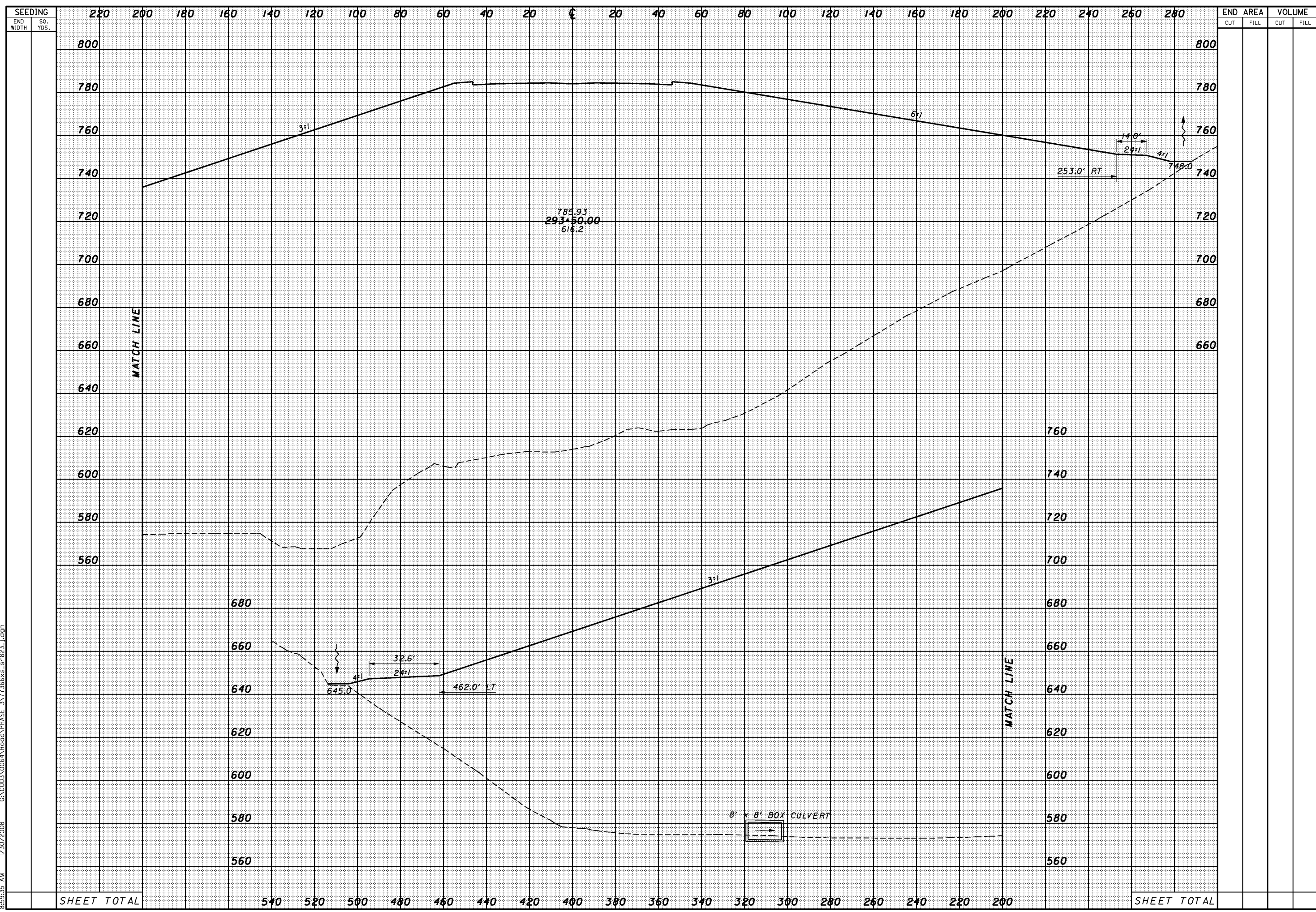
CROSS SECTIONS  
SR823 - STA. 293+00.00

SCI-823-0.00

SHEET TOTAL

SHEET TOTAL

8:59:35 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823\_1.dgn



SHEET TOTAL

540 520 500 480 460 440 420 400 380 360 340 320 300 280 260 240 220 200

SHEET TOTAL

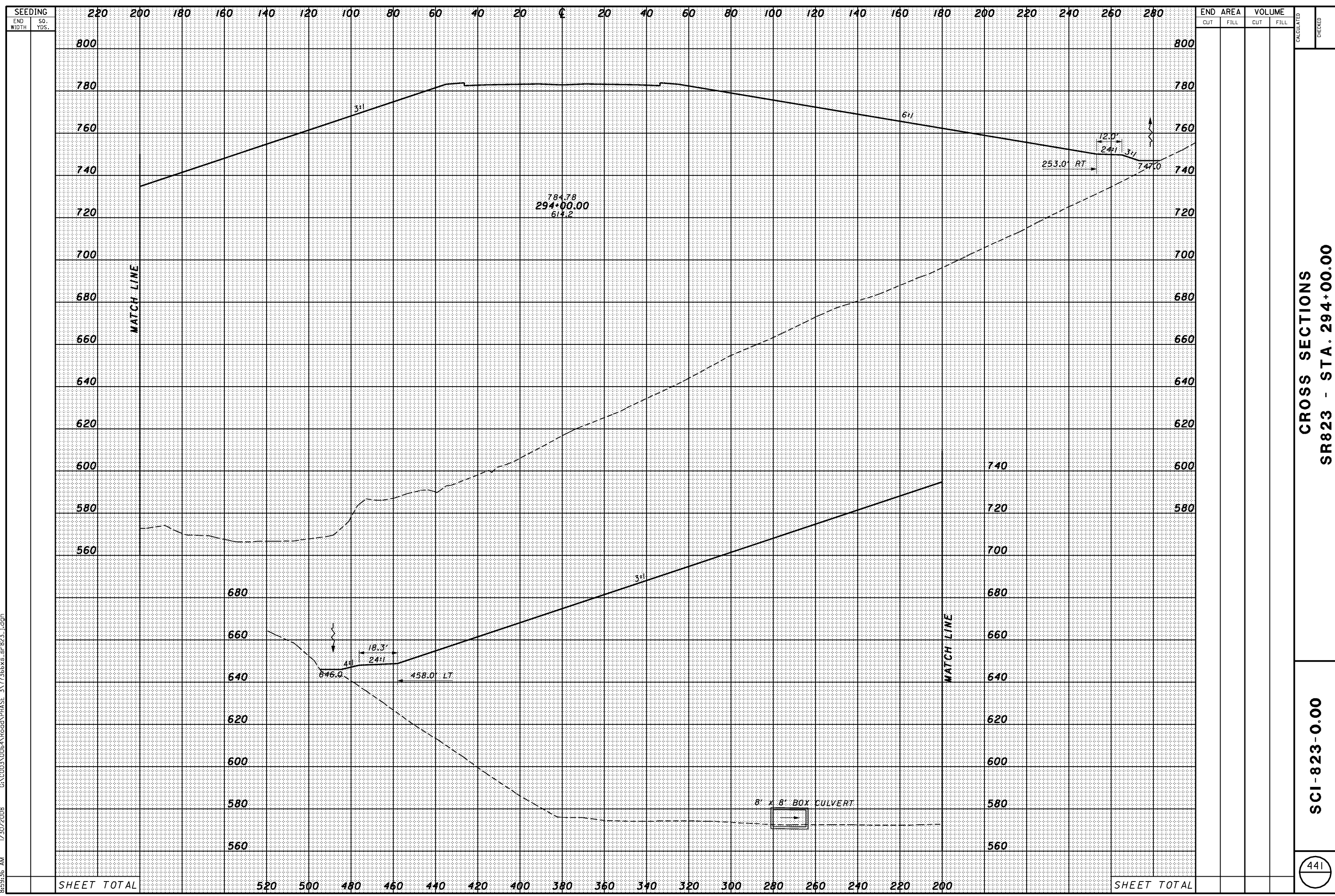
SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		

**CROSS SECTIONS**  
**SR823 - STA. 293+50.00**

**SCI-823-0.00**

(440)

8:59:36 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_1.dgn



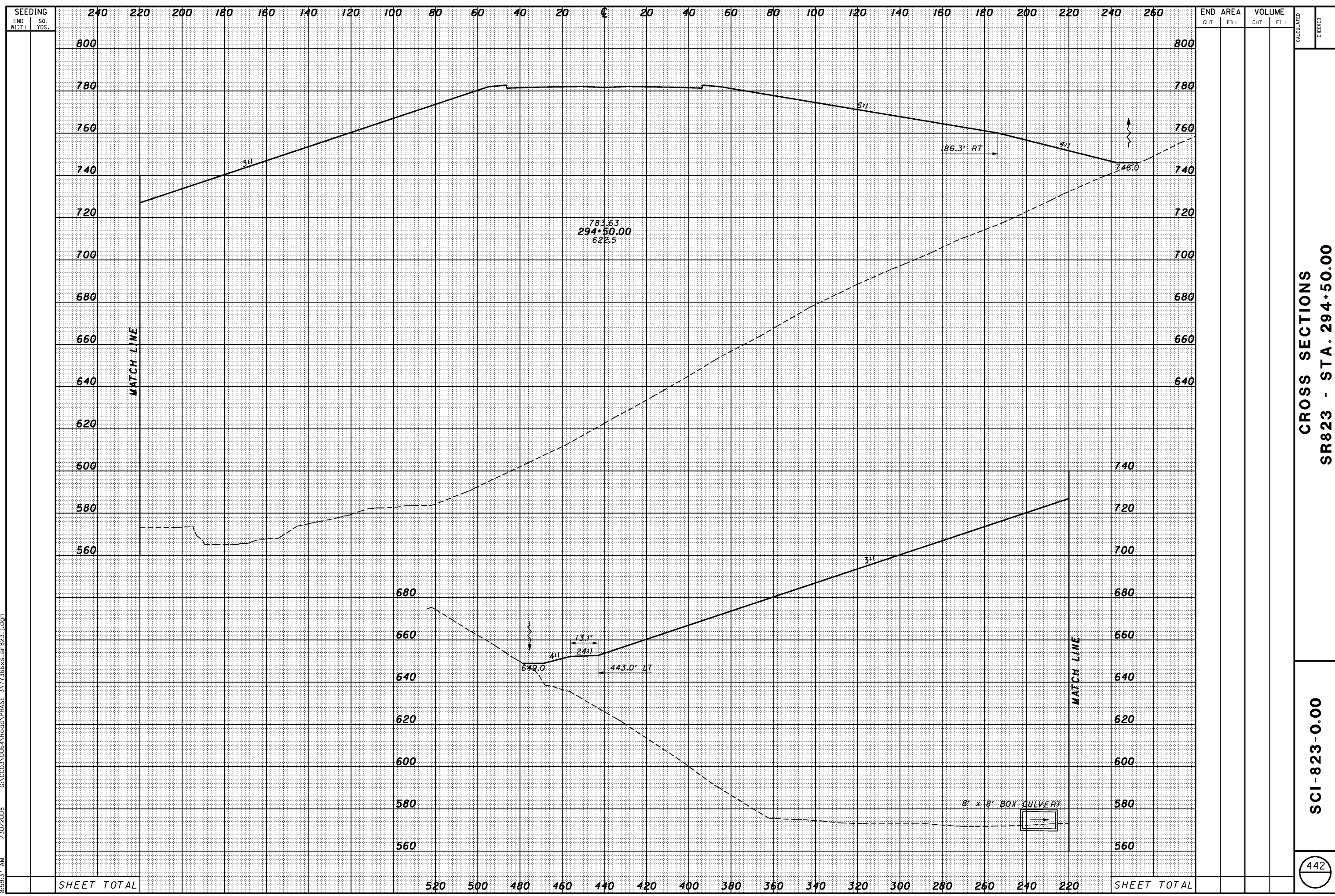
SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		
SHEET TOTAL		520	500	480	460	440	420
		400	380	360	340	320	300
		280	260	240	220	200	
SHEET TOTAL							

CROSS SECTIONS  
SR823 - STA. 294+00.00

SCI-823-0.00



8:59:37 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366xs-sr-823\_1.dgn

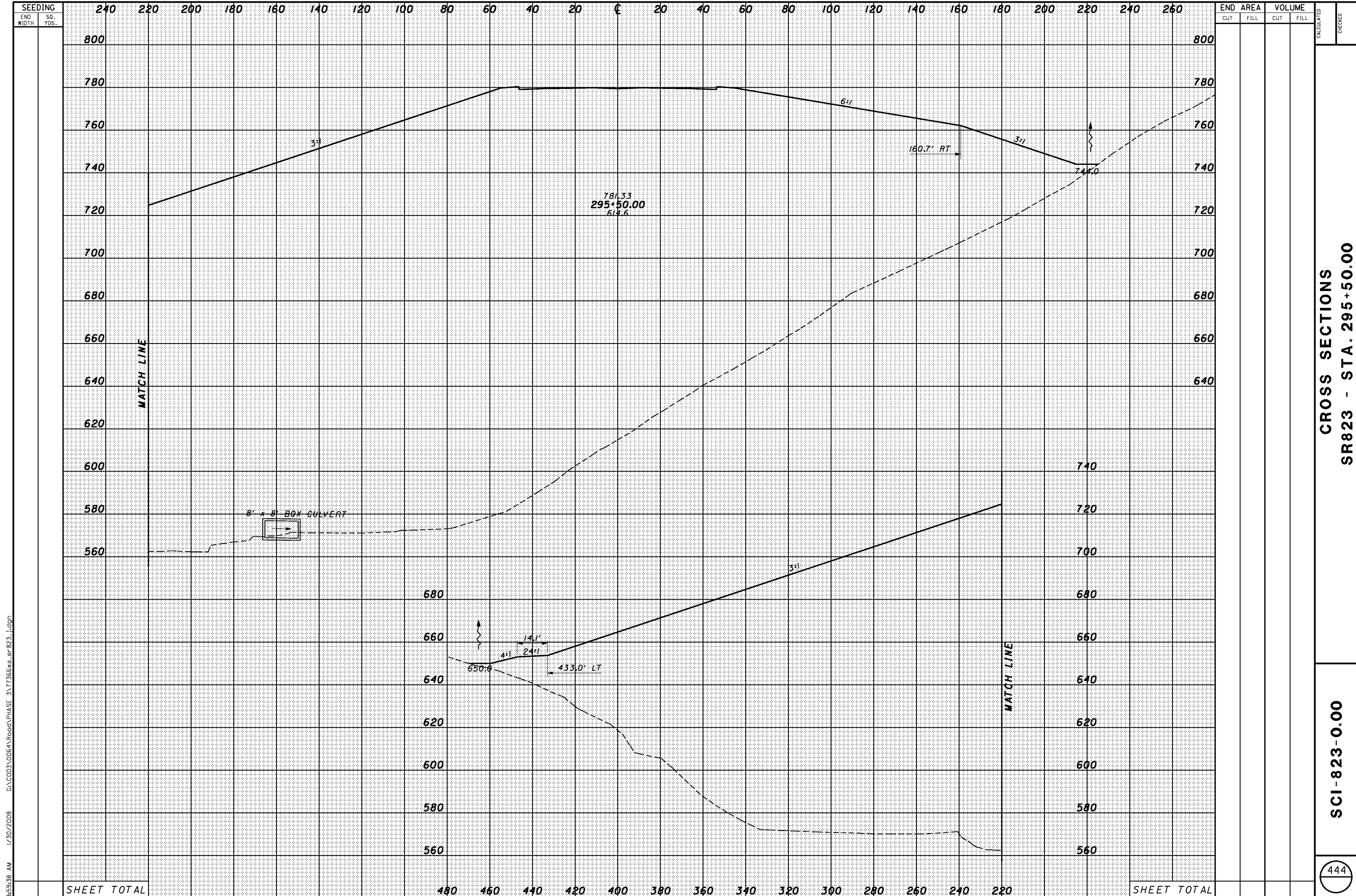


SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		
SHEET TOTAL							

CROSS SECTIONS  
SR823 - STA. 294+50.00

SCI-823-0.00





8:59:38 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_1.dgn

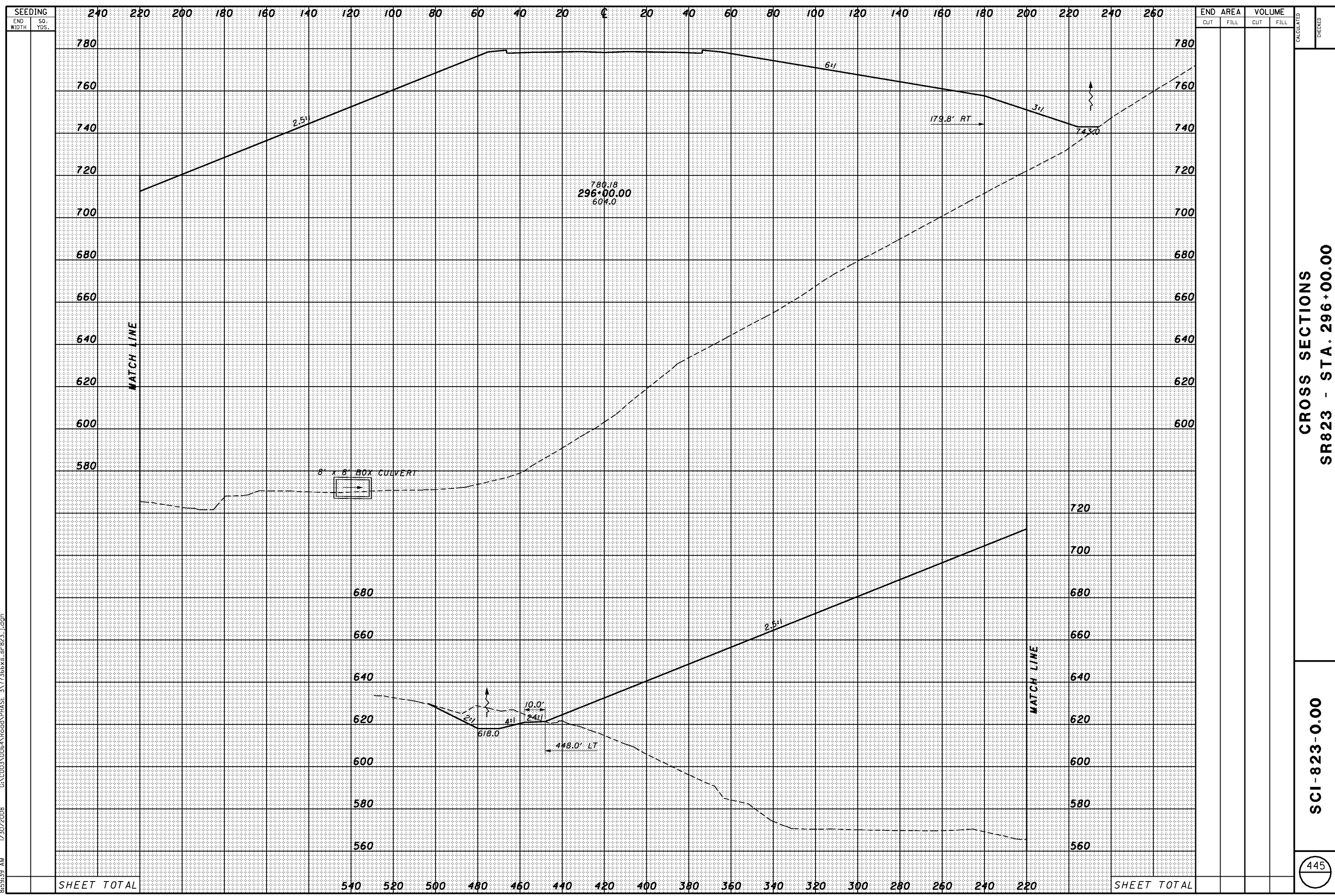
SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL		
SHEET TOTAL							

**CROSS SECTIONS**  
**SR823 - STA. 295+50.00**

**SCI-823-0.00**



8:59:39 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13666xs\_sr-823\_1.dgn



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

CROSS SECTIONS  
SR823 - STA. 296+00.00

SCI-823-0.00

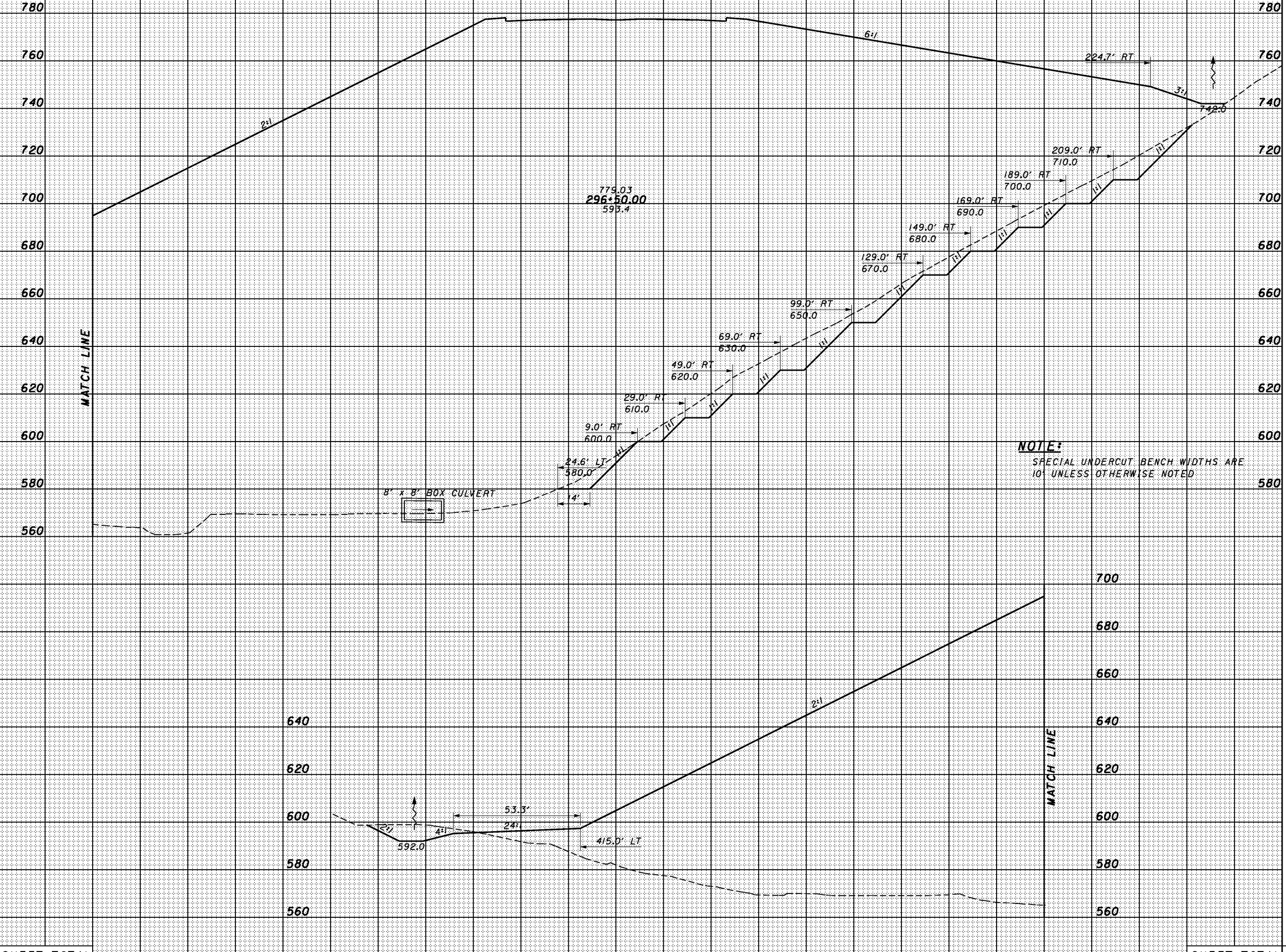
SEEDING  
END SO.  
WIDTH YDS.

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

8:59:40 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823.dgn



SHEET TOTAL

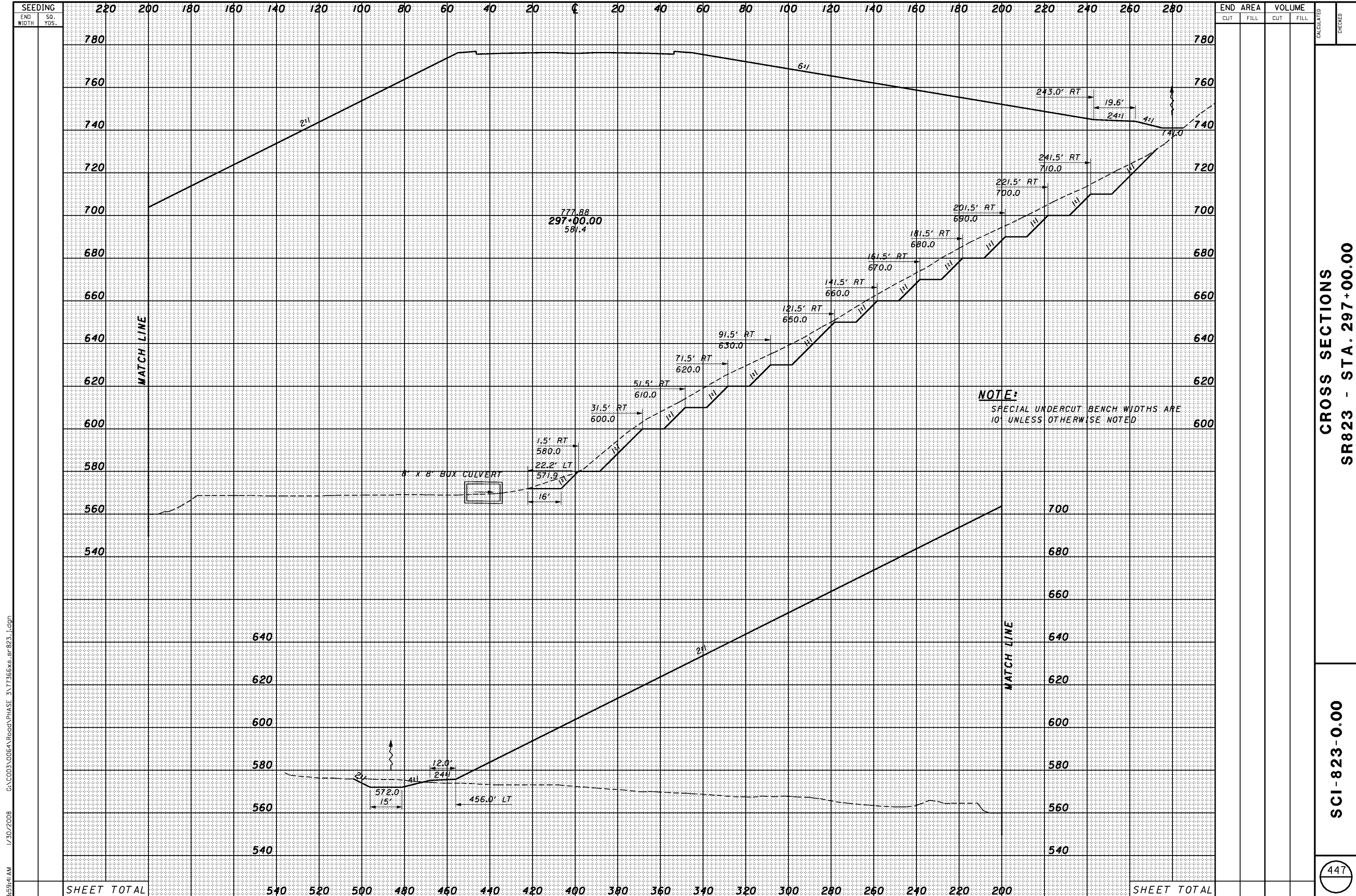
520 500 480 460 440 420 400 380 360 340 320 300 280 260 240 220

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 296 +50.00

SCI - 823 - 0.00

446



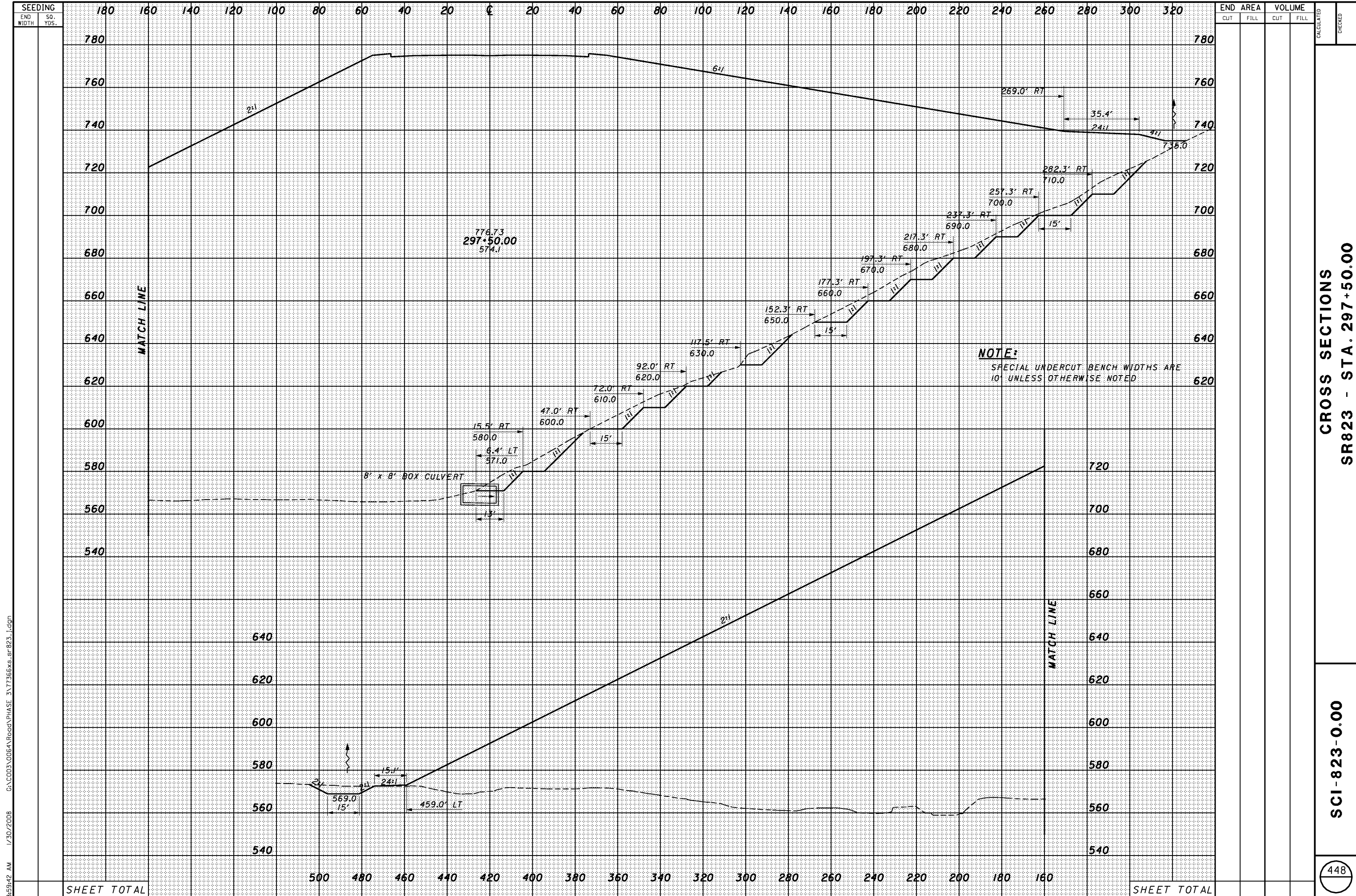
SEEDING	END SO.	
	WIDTH	YDS.

STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
220				
240				
260				
280				
540				
560				
580				
<b>SHEET TOTAL</b>				

CALCULATED  
 CHECKED  
**CROSS SECTIONS**  
**SR823 - STA. 297+00.00**  
**SCI-823-0.00**  
 447

8/5/2008 1/30/2008 G:\C003\0064\Road\PHASE 3\T13666xs-sr-823\_1.dgn





SEEDING  
END WIDTH SO. YDS.

8:59:42 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_1.dgn

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	
780																										780
760																										760
740																										740
720																										720
700																										700
680																										680
660																										660
640																										640
620																										620
600																										600
580																										580
560																										560
540																										540
640																										640
620																										620
600																										600
580																										580
560																										560
540																										540
500	480	460	440	420	400	380	360	340	320	300	280	260	240	220	200	180	160									

END AREA	CUT	FILL	VOLUME	CUT	FILL	CALCULATED	CHECKED

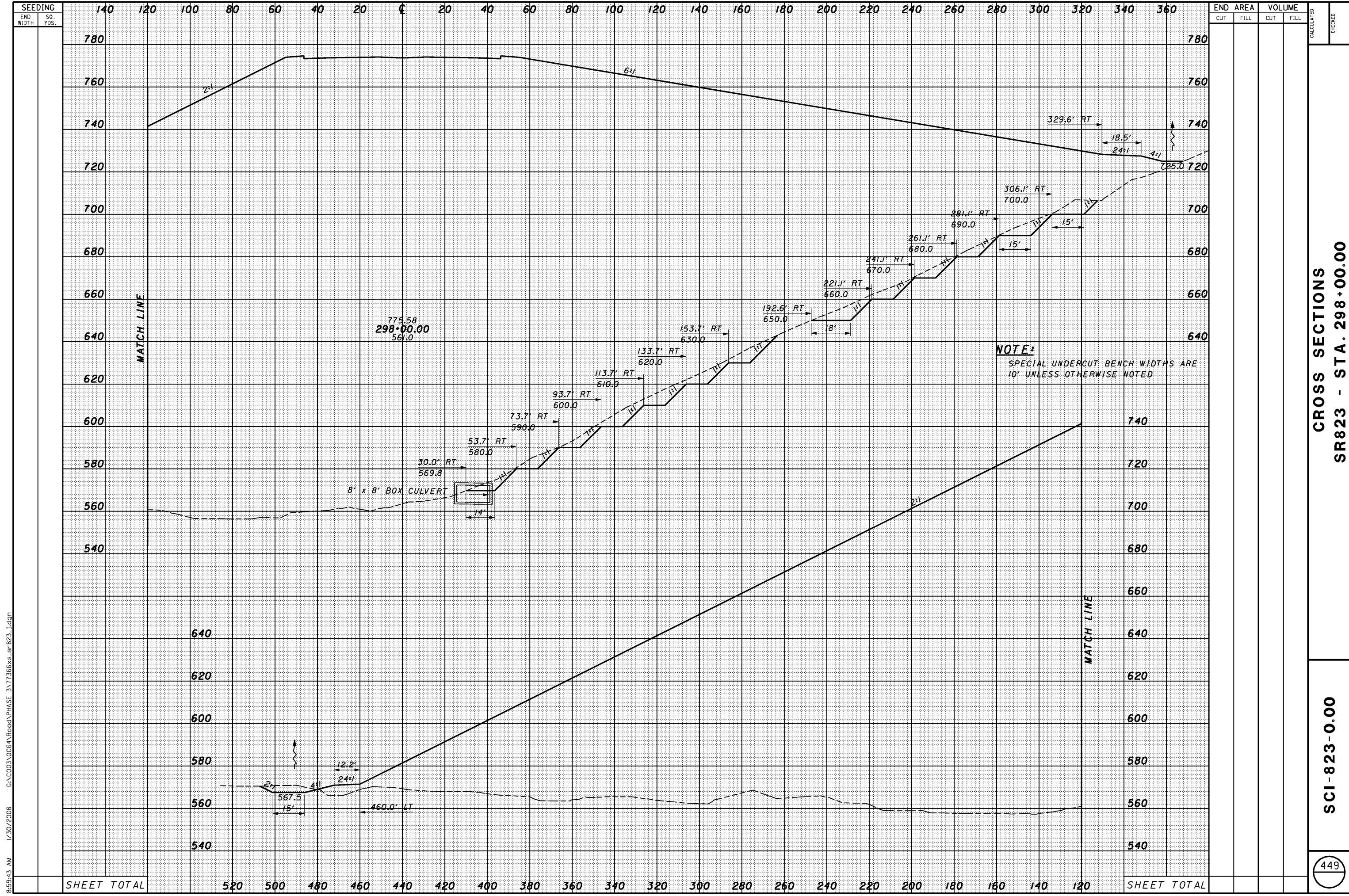
**CROSS SECTIONS**  
**SR823 - STA. 297+50.00**

**SCI-823-0.00**

448

SHEET TOTAL

SHEET TOTAL



**CROSS SECTIONS**  
**SR823 - STA. 298+00.00**

**SCI-823-0.00**

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SEEDING	
END WIDTH	SO. YDS.

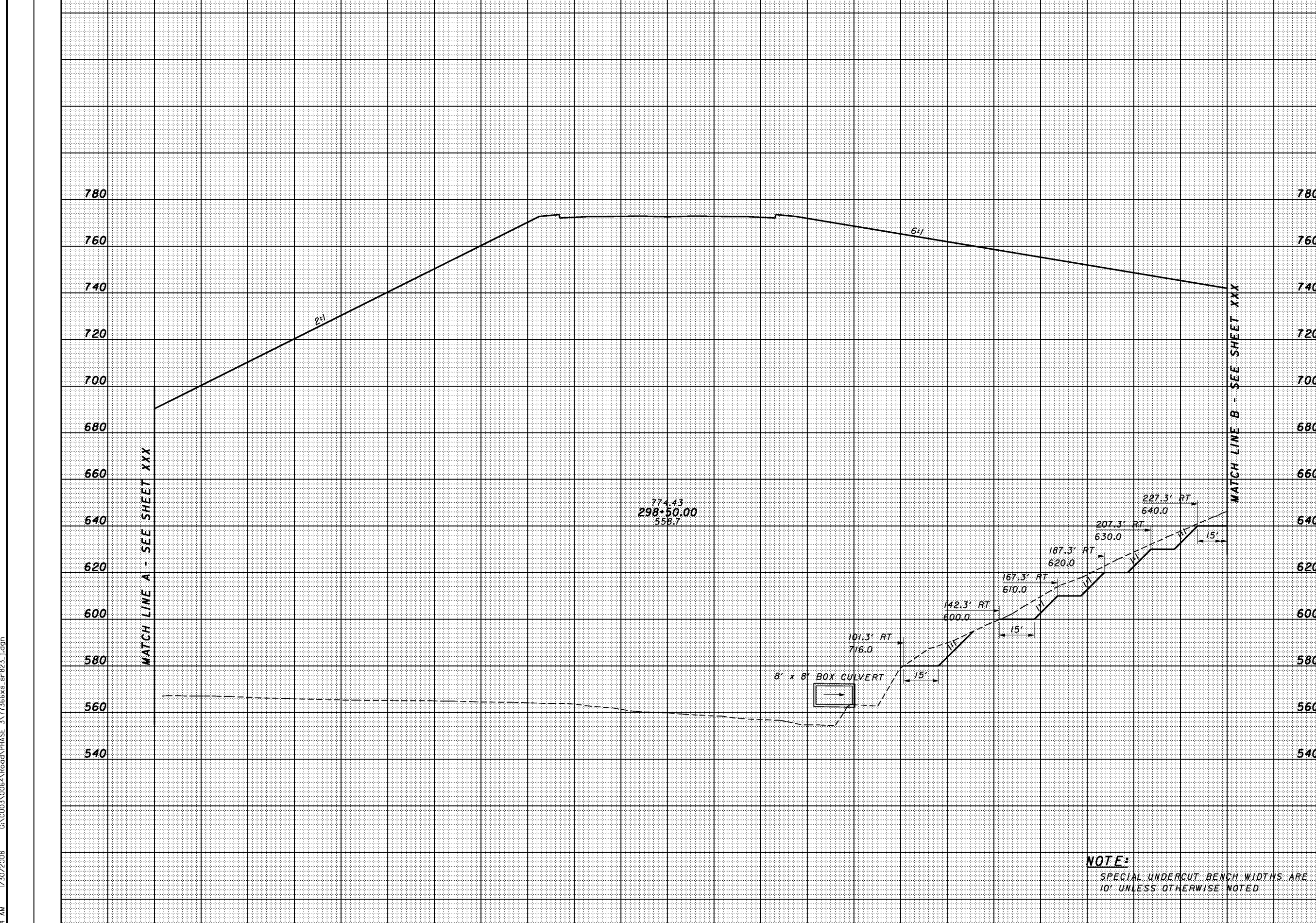
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 298+50.00

SCI-823-0.00

450



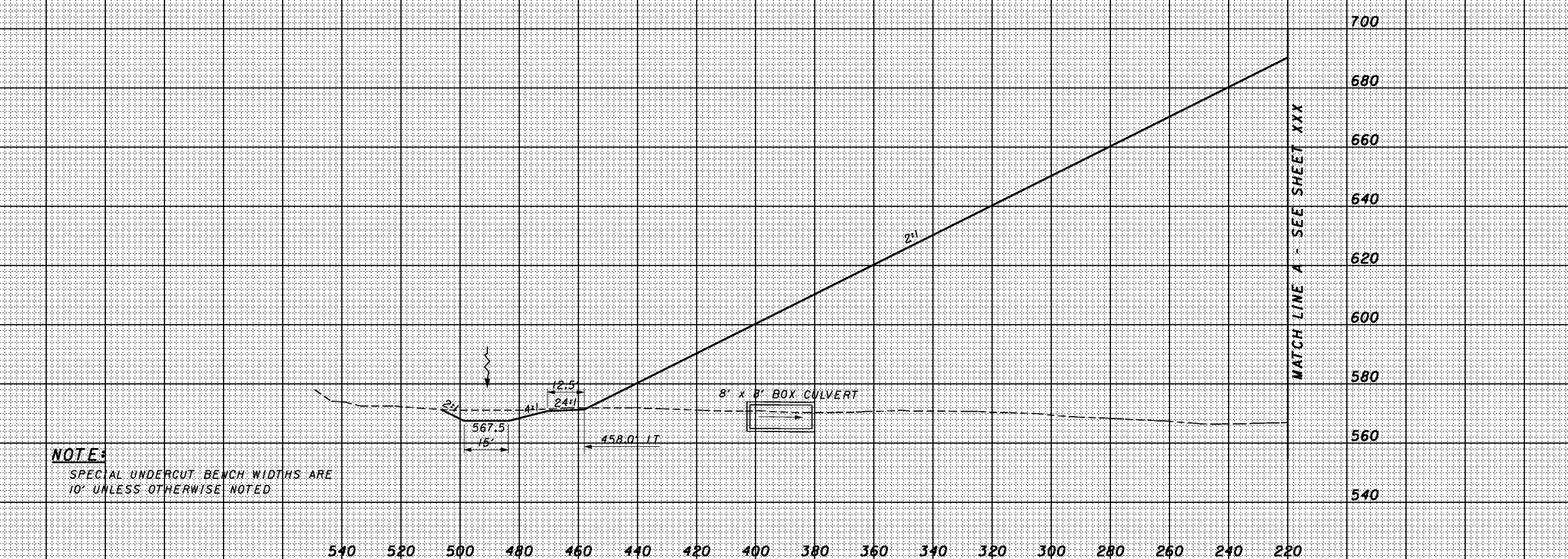
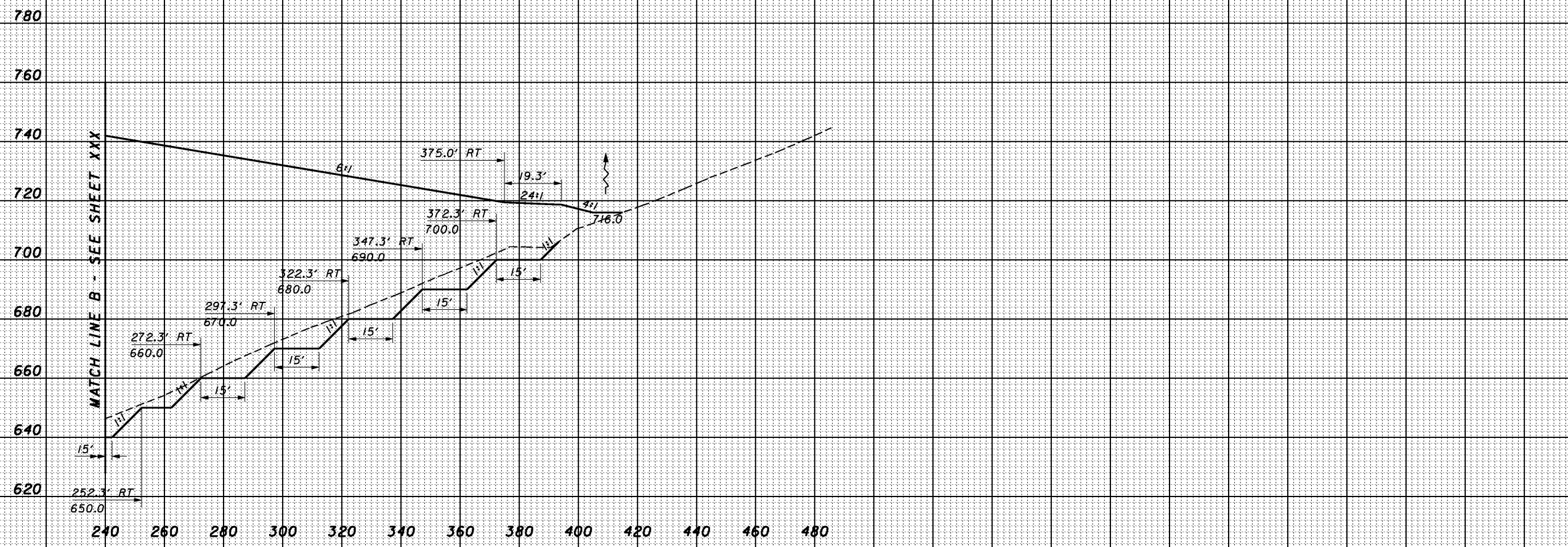
**NOTE:**  
SPECIAL UNDERCUT BENCH WIDTHS ARE  
10' UNLESS OTHERWISE NOTED.

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
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SEEDING  
END WIDTH SO. YDS.

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. 298+50.00

SCI-823-0.00

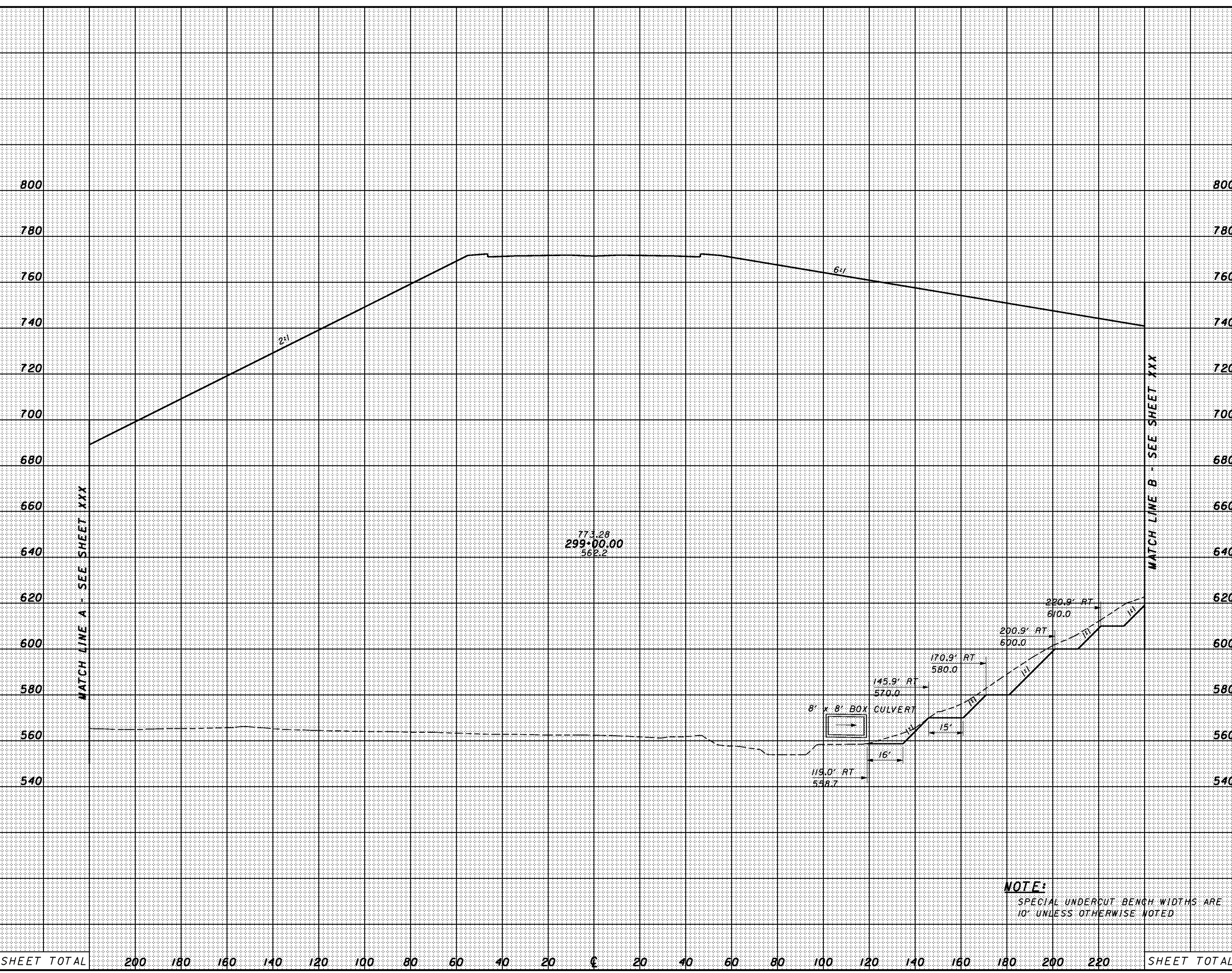
451

1/30/2008 1:30:20 PM g:\c003\0064\Road\PHASE 3\T13666xs-sr823.dgn

1/30/2008 1:30:46 PM g:\C003\0064\Road\PHASE 3\T13666xs-sr-823\_1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



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

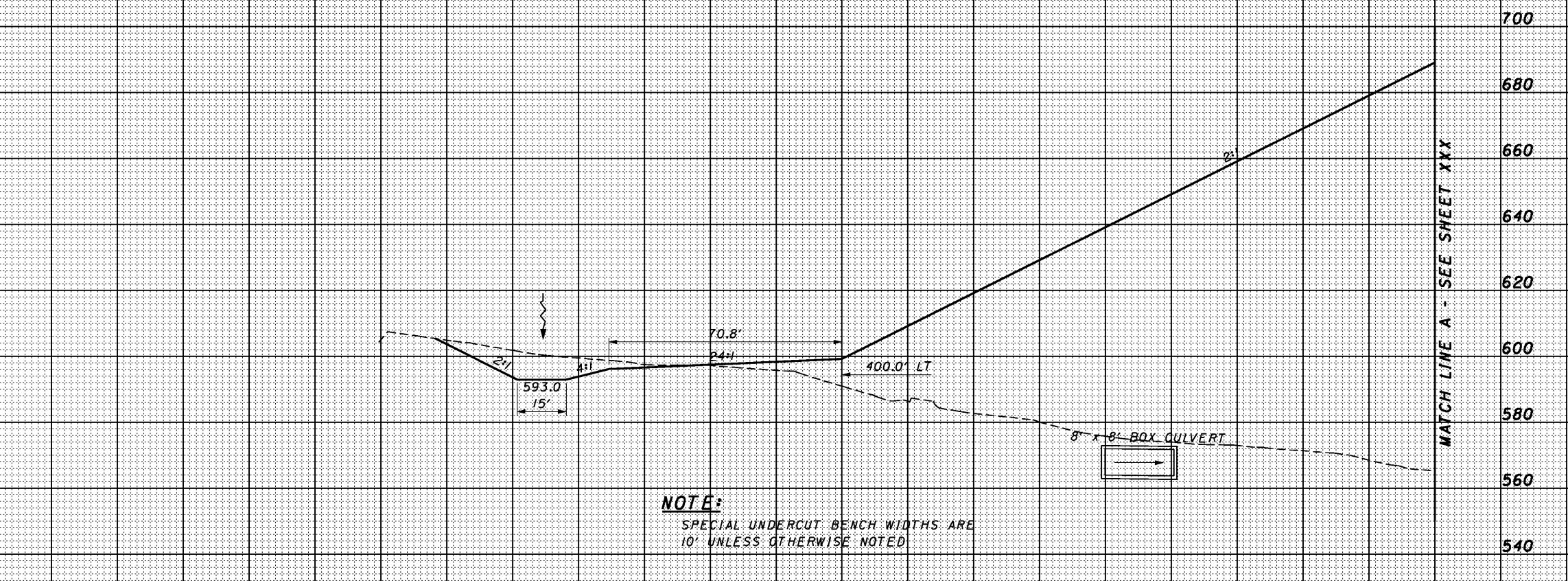
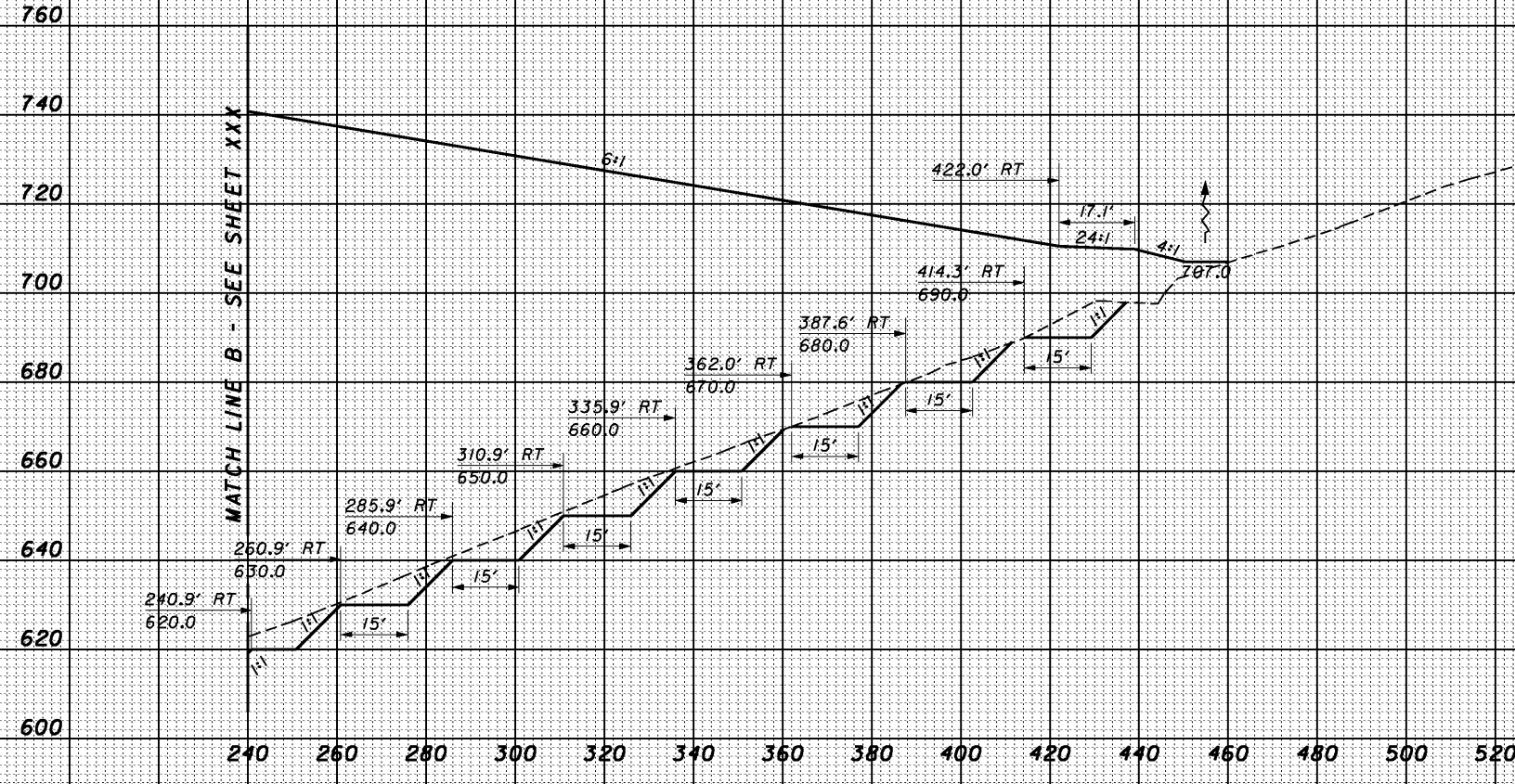
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS  
SR823 - STA. 299+00.00

SCI-823-0.00

SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



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

SHEET TOTAL

540 520 500 480 460 440 420 400 380 360 340 320 300 280 260 240 220

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 299+00.00

SCI-823-0.00

453

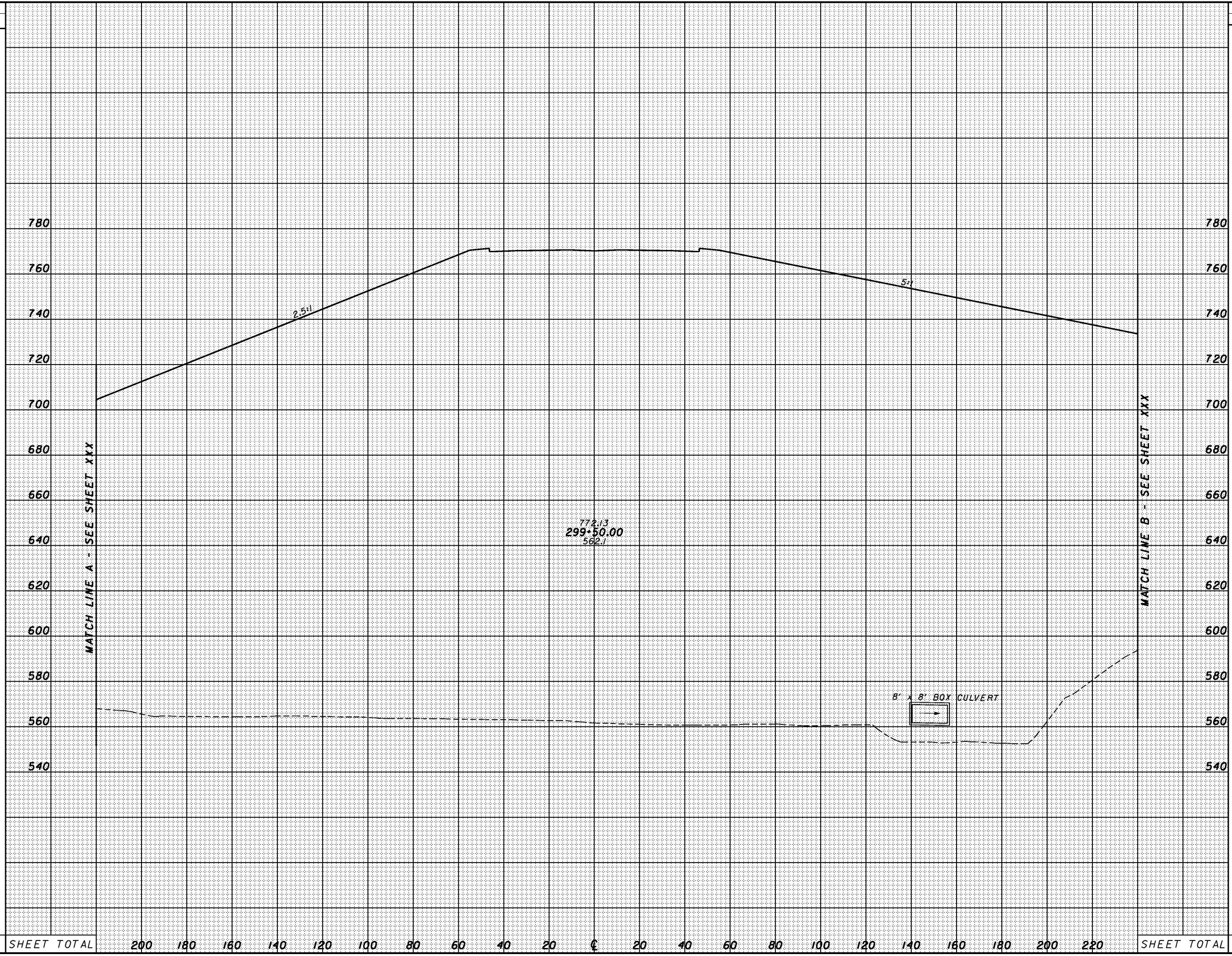
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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	±	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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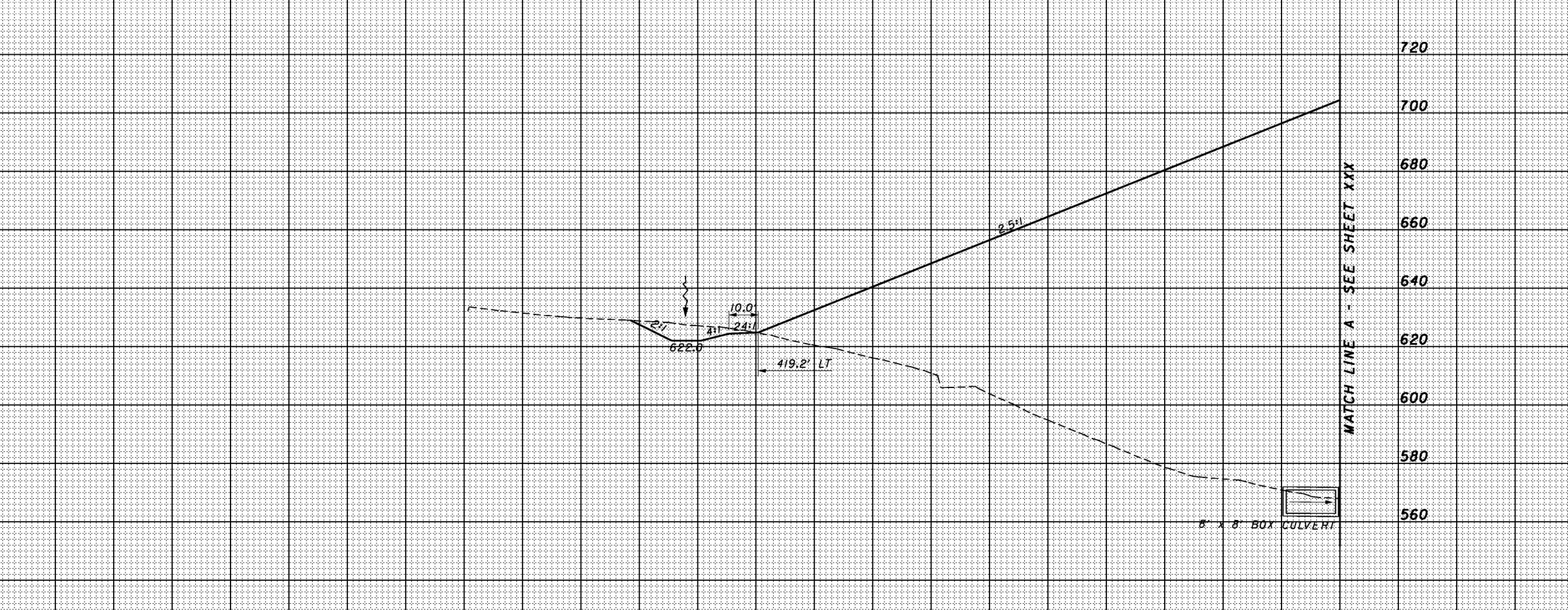
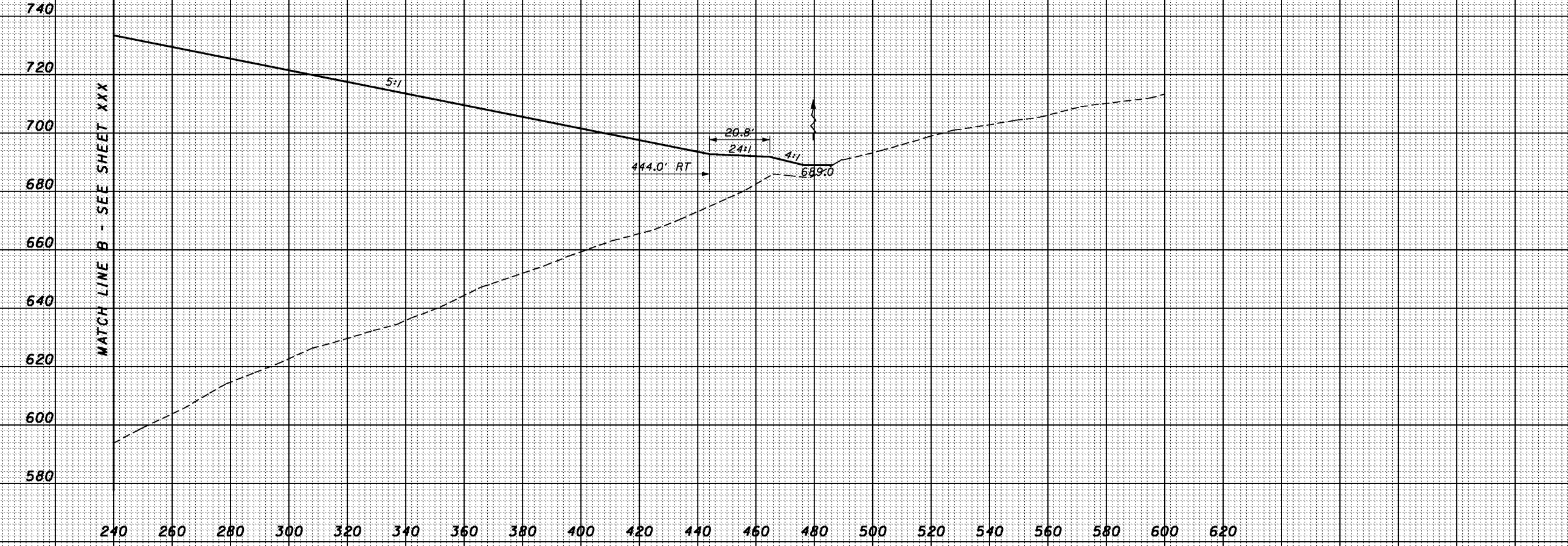
CROSS SECTIONS  
SR823 - STA. 299+50.00

SCI-823-0.00

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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	520	500	480	460	440	420	400	380	360	340	320	300	280	260	240	220	SHEET TOTAL
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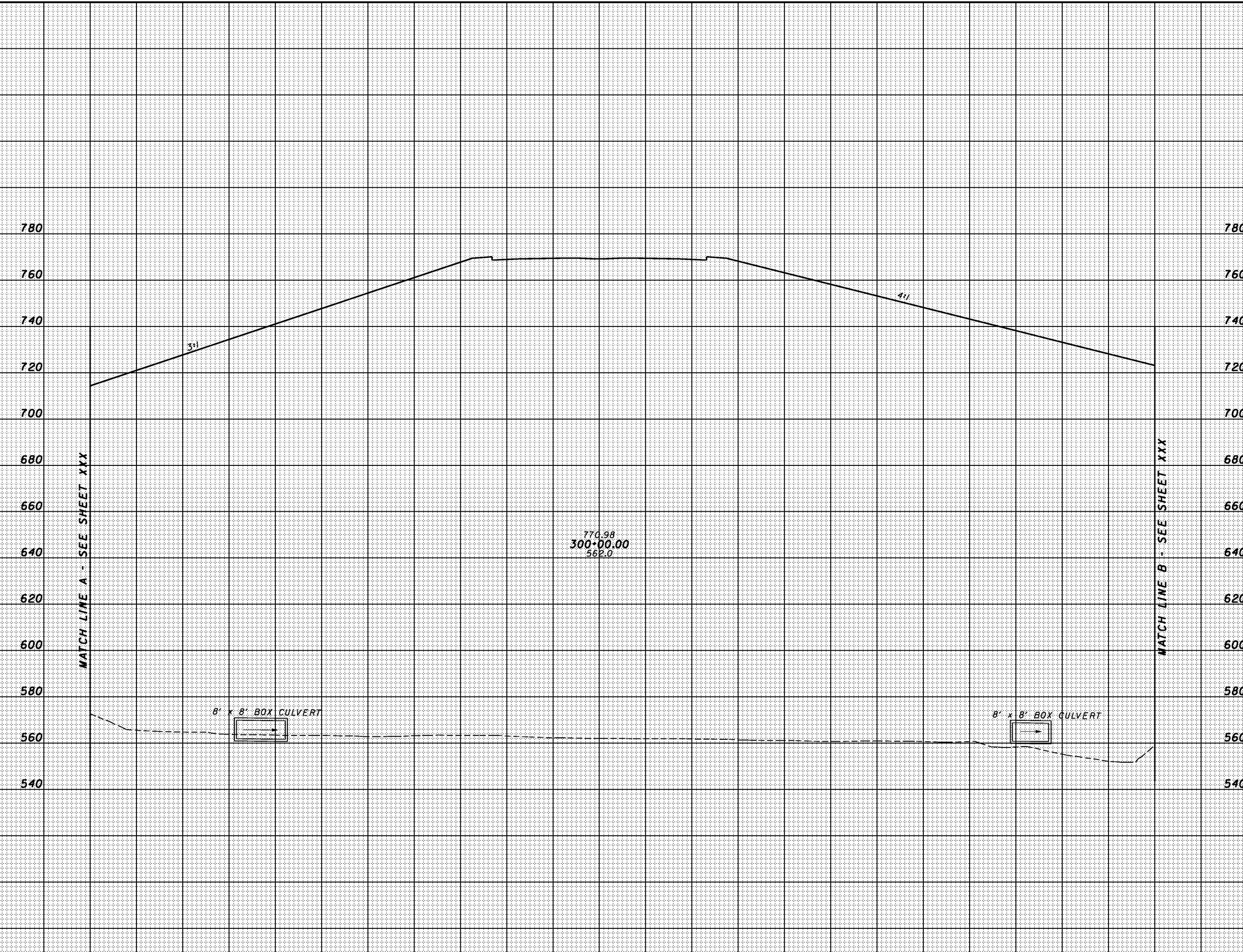
CROSS SECTIONS  
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SCI-823-0.00

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

CROSS SECTIONS  
SR823 - STA. 300+00.00

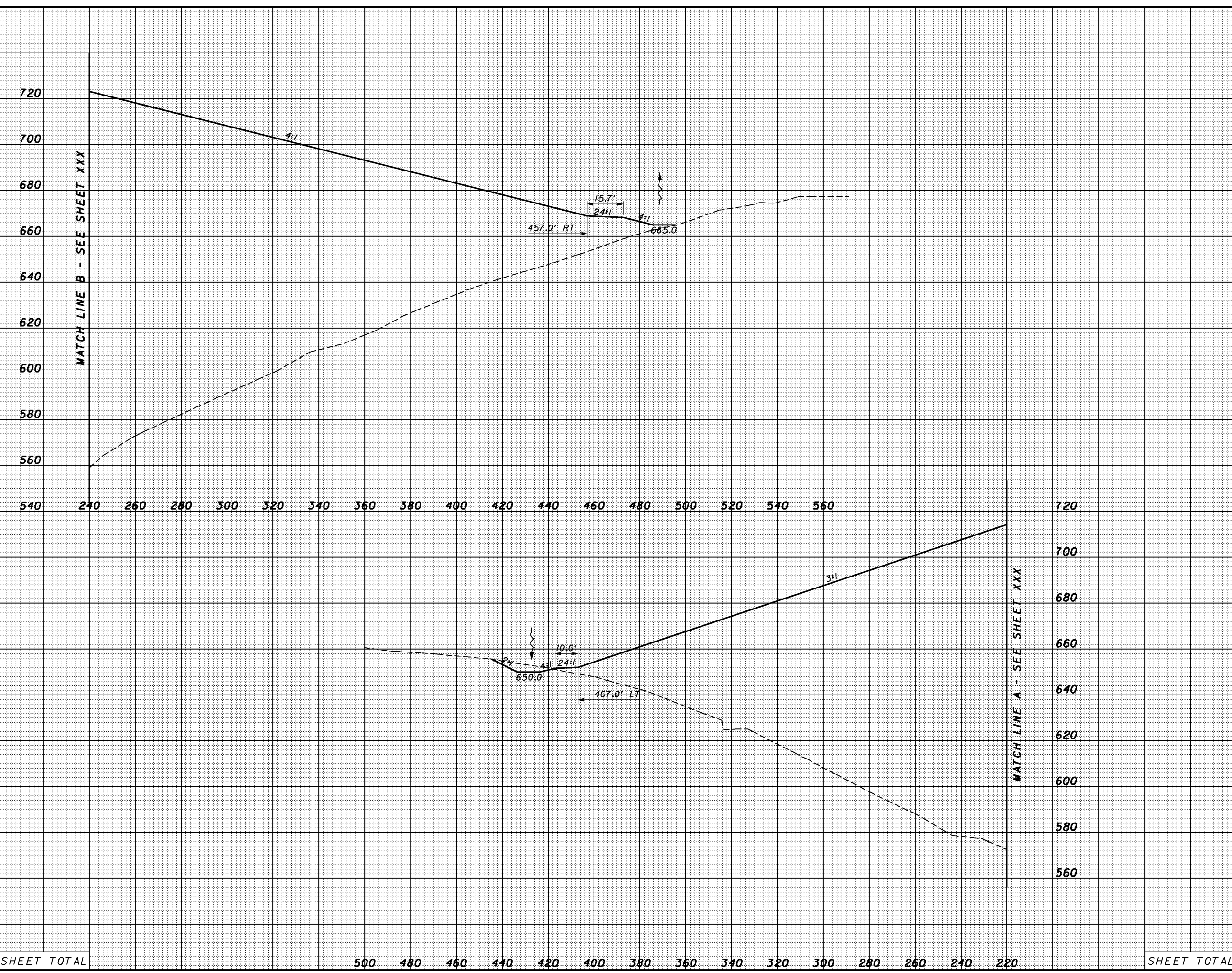
SCI-823-0.00



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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL

500 480 460 440 420 400 380 360 340 320 300 280 260 240 220

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 300+00.00

SCI-823-0.00

457

1/30/2008 1:30:49 PM g:\C003\0064\Road\PHASE 3\T13666xs-sr-823\_1.dgn

SEEDING	
END WIDTH	SO. YDS.

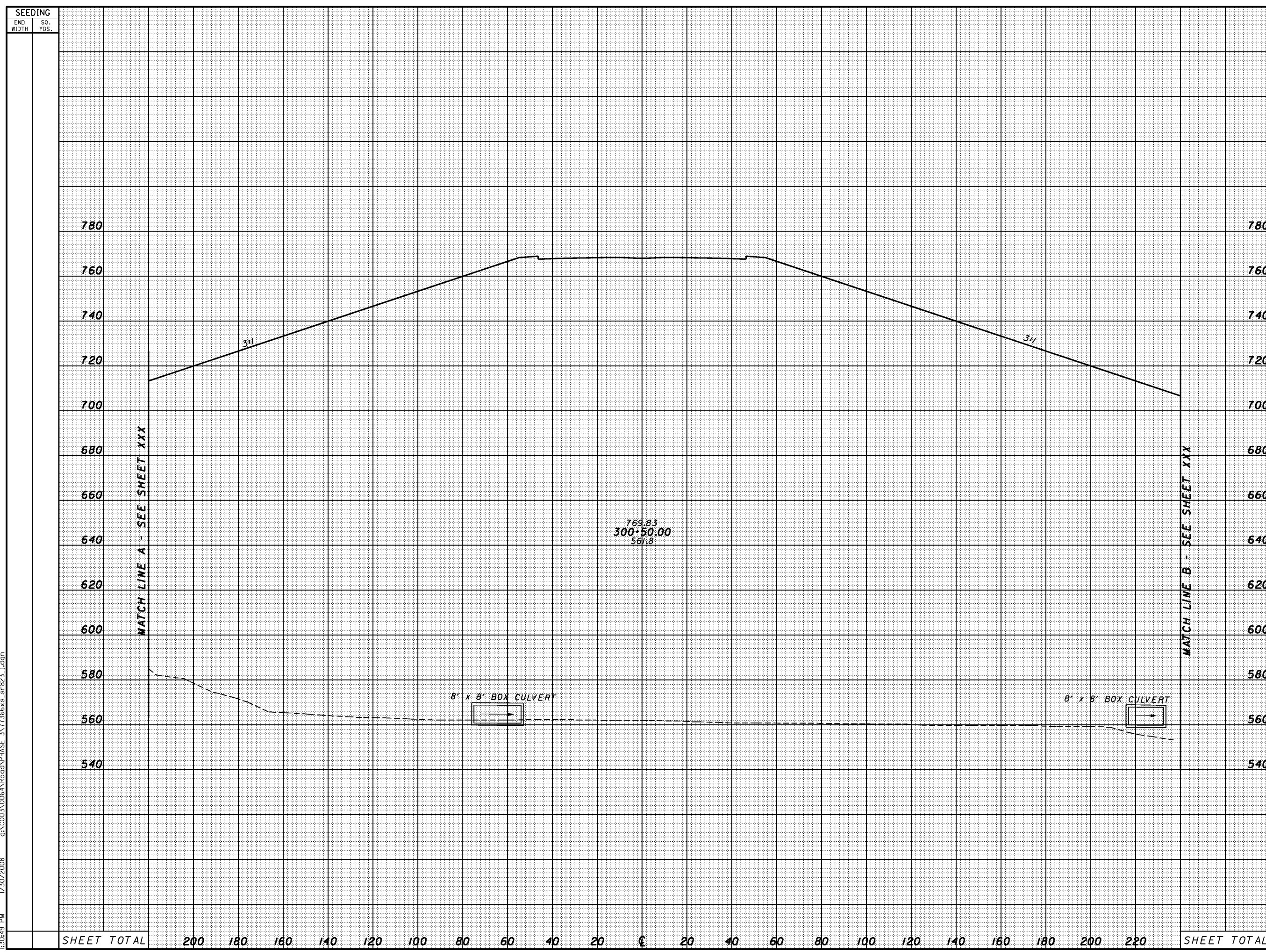
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 300+50.00

SCI-823-0.00

458



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

1/31/20 11:20 PM 1/30/2008 g:\c003\0064\Road\PHASE 3\T13666xs\_sr-823\_1.dgn

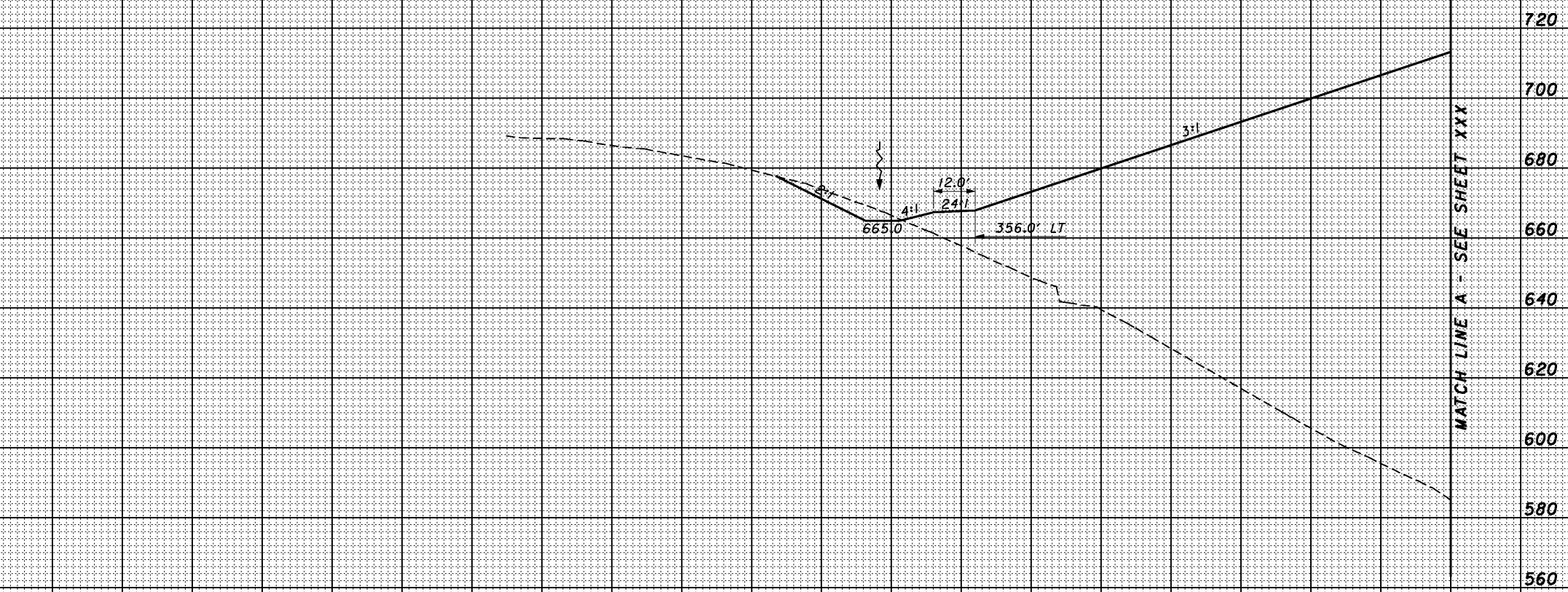
SEEDING  
END SO.  
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

700  
680  
660  
640  
620  
600  
580  
560

MATCH LINE B - SEE SHEET XXX

240 260 280 300 320 340 360 380 400 420 440 460 480 500 520 540 560



MATCH LINE A - SEE SHEET XXX

720  
700  
680  
660  
640  
620  
600  
580  
560

SHEET TOTAL

500 480 460 440 420 400 380 360 340 320 300 280 260 240 220

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 300+50.00

SCI-823-0.00

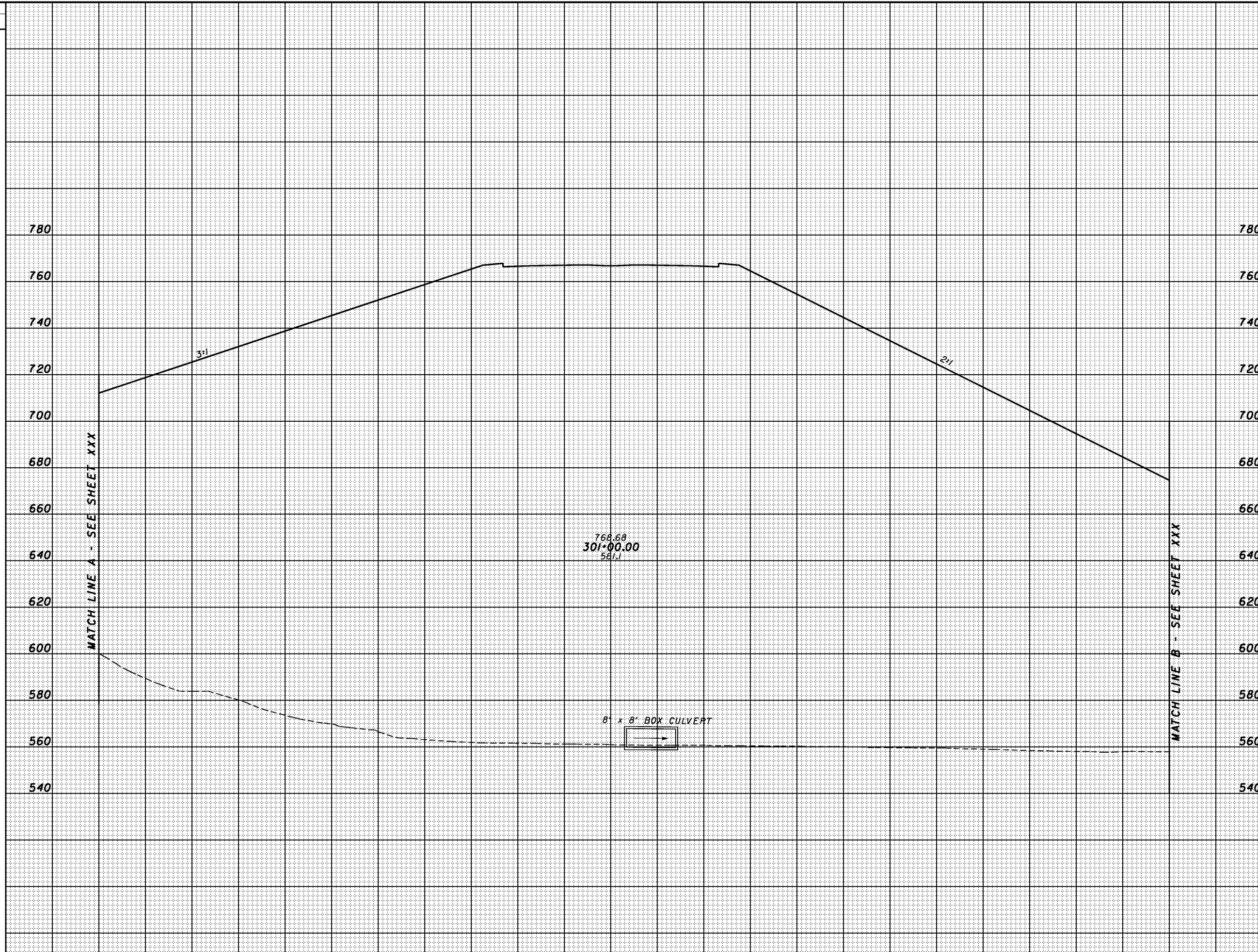
459



1:30:50 PM 1/30/2008 g:\C003\0064\Road\PHASE 3\171366x-sr-823\_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

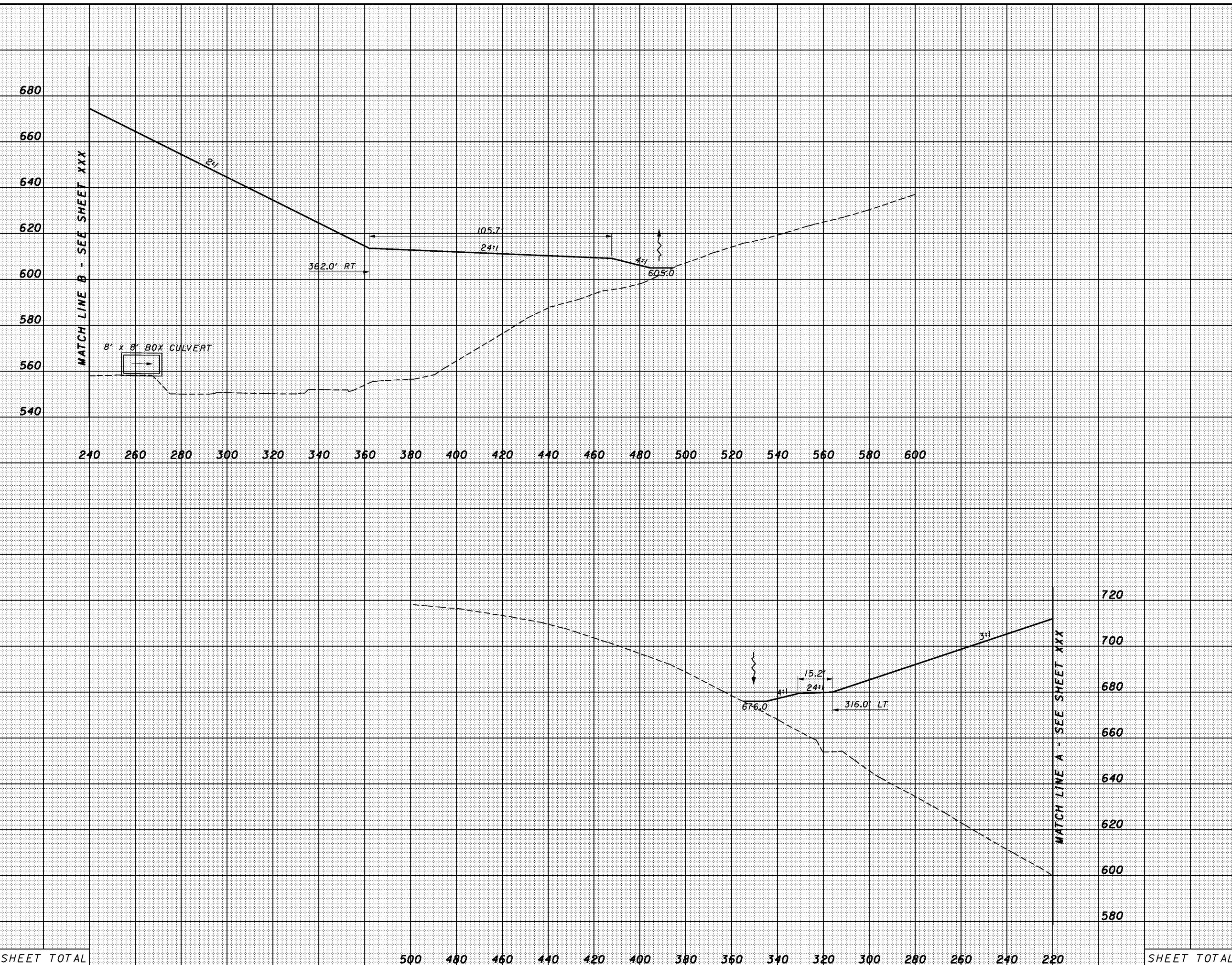
CROSS SECTIONS  
SR823 - STA. 301+00.00

SCI-823-0.00

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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL

500 480 460 440 420 400 380 360 340 320 300 280 260 240 220

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 301+00.00

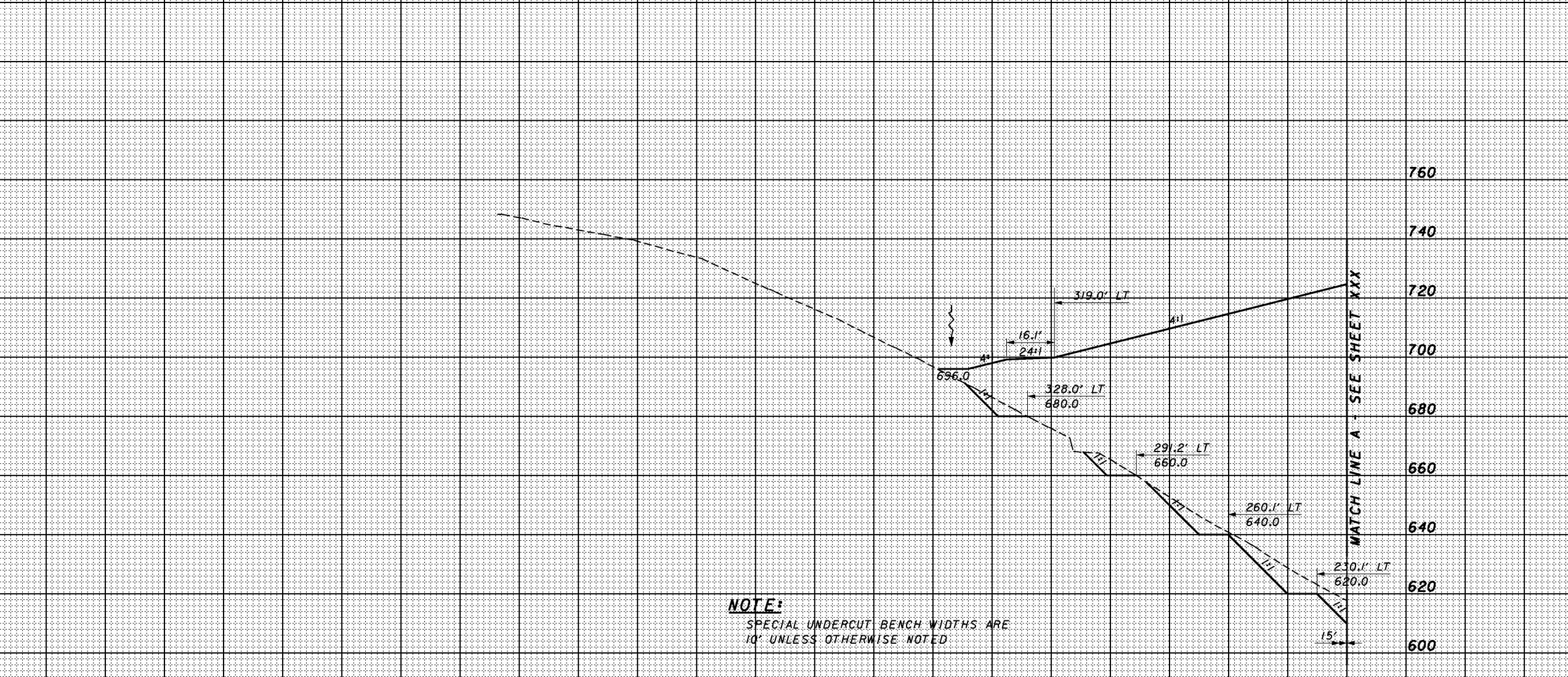
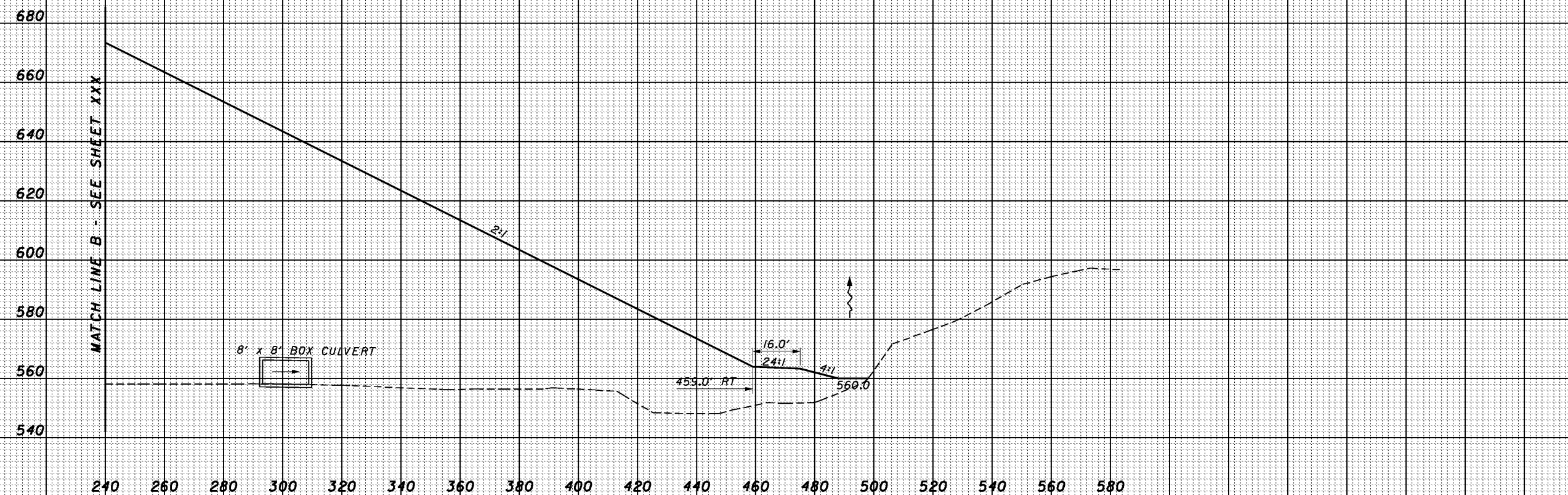
SCI-823-0.00





SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



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

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SHEET TOTAL

500 480 460 440 420 400 380 360 340 320 300 280 260 240 220

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 301+50.00

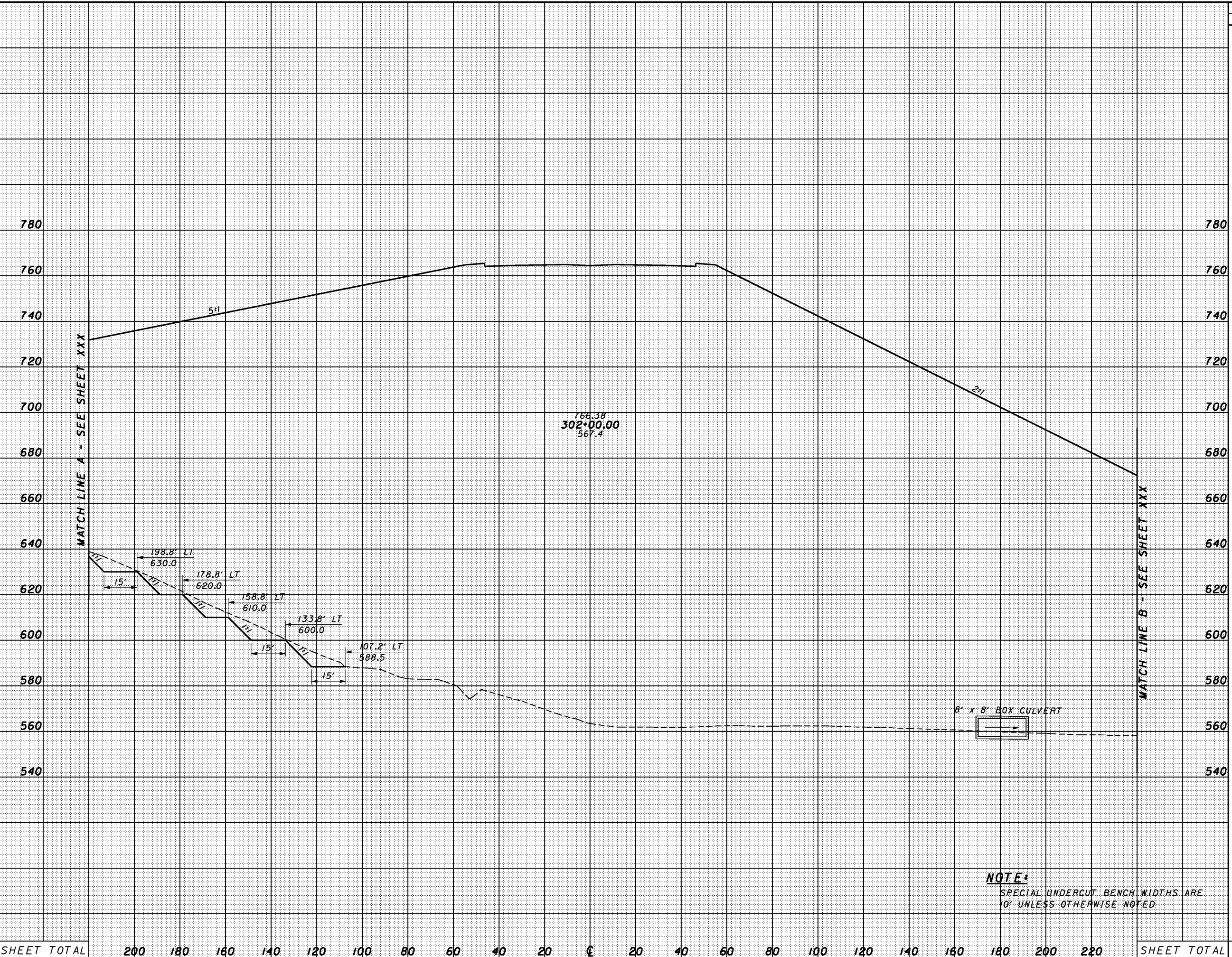
SCI-823-0.00

463

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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



766.38  
302+00.00  
567.4

6' x 8' BOX CULVERT

**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
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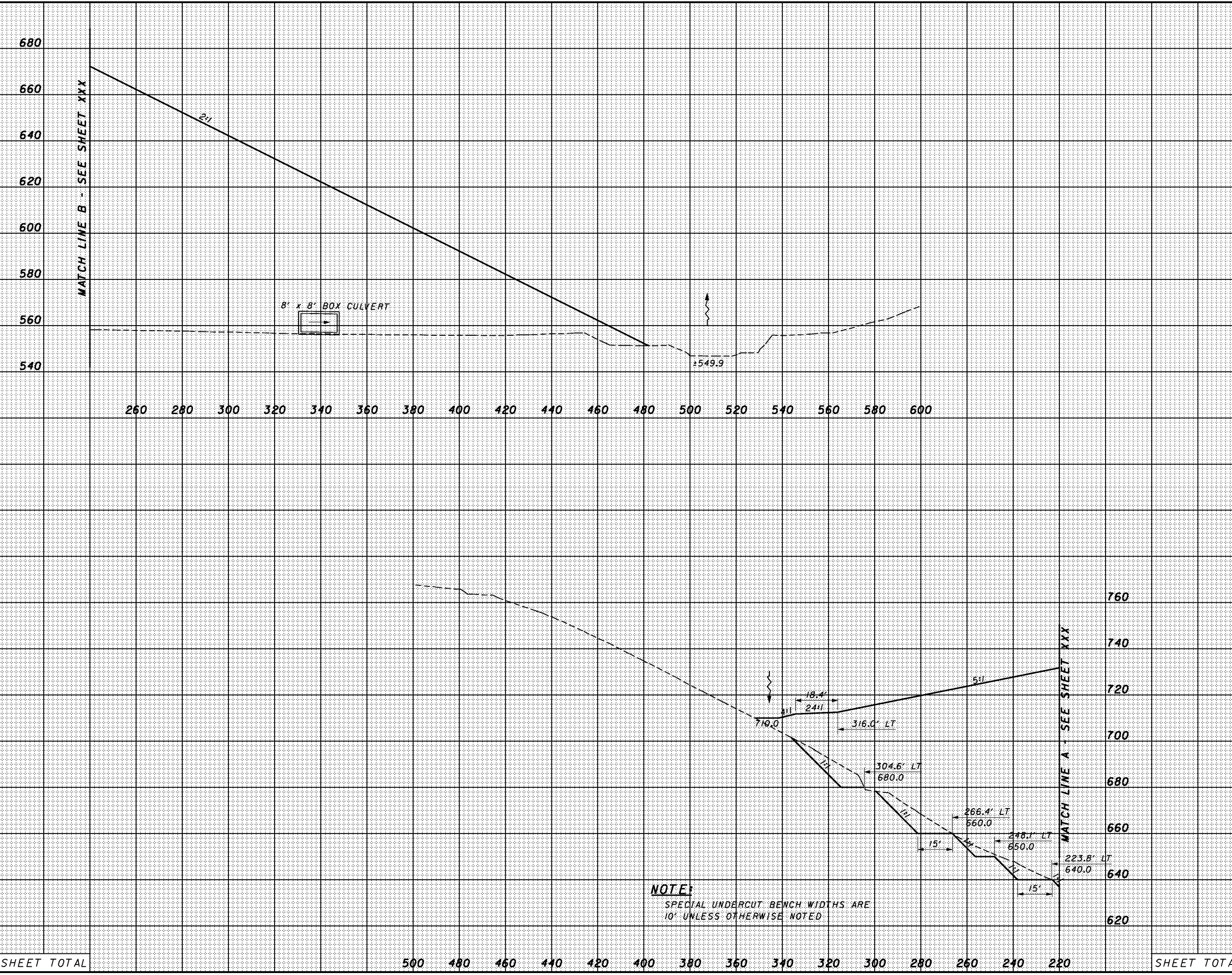
CROSS SECTIONS  
SR823 - STA. 302+00.00

SCI-823-0.00

1/30/2008 g:\C003\0064\Road\PHASE 3\T13666xs-sr-823\_1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL

500 480 460 440 420 400 380 360 340 320 300 280 260 240 220

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 302+00.00

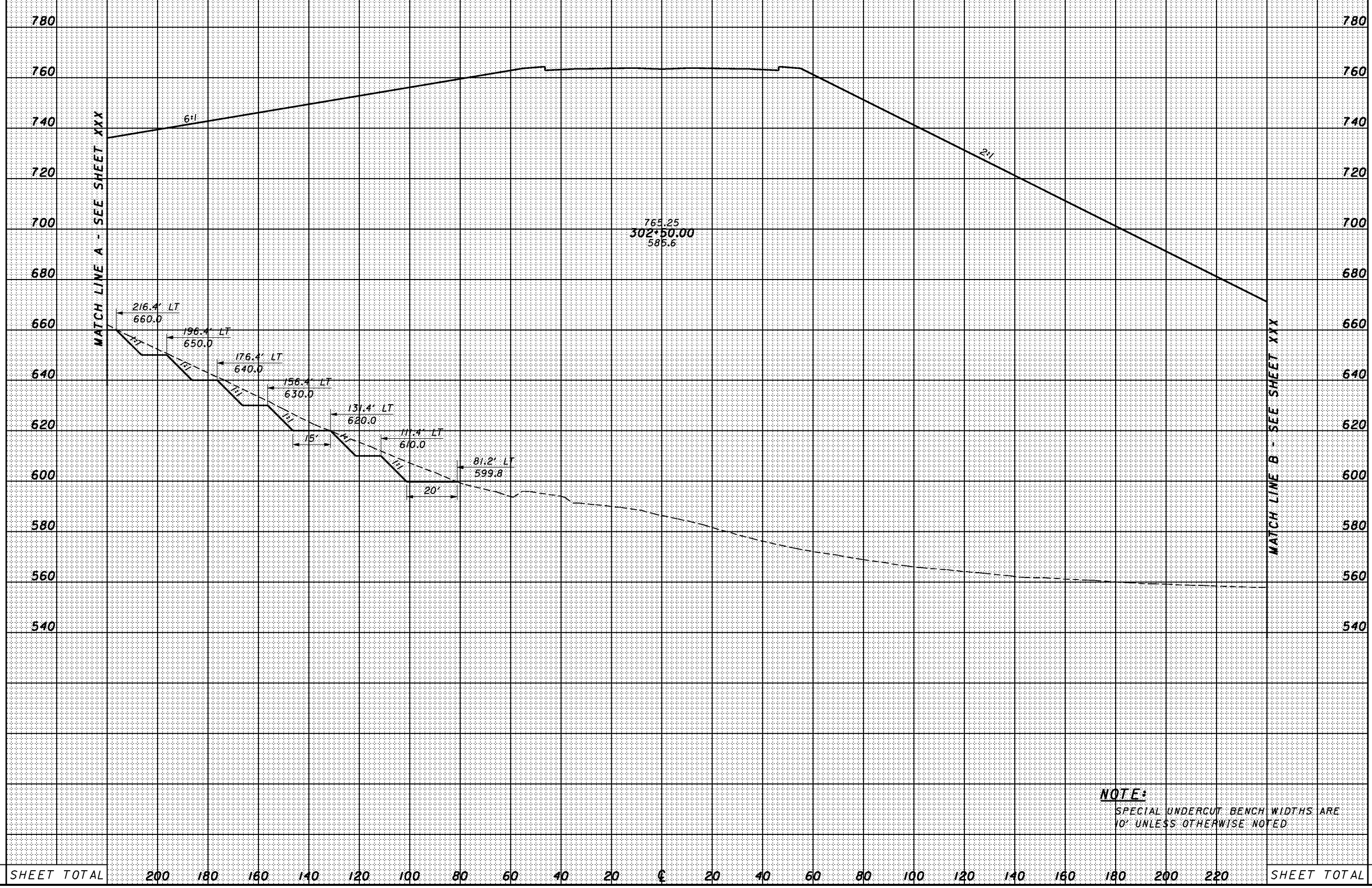
SCI-823-0.00



SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

1/30/2008 1:30:54 PM g:\C003\0064\Road\PHASE 3\T13666xs-sr-823\_1.dgn



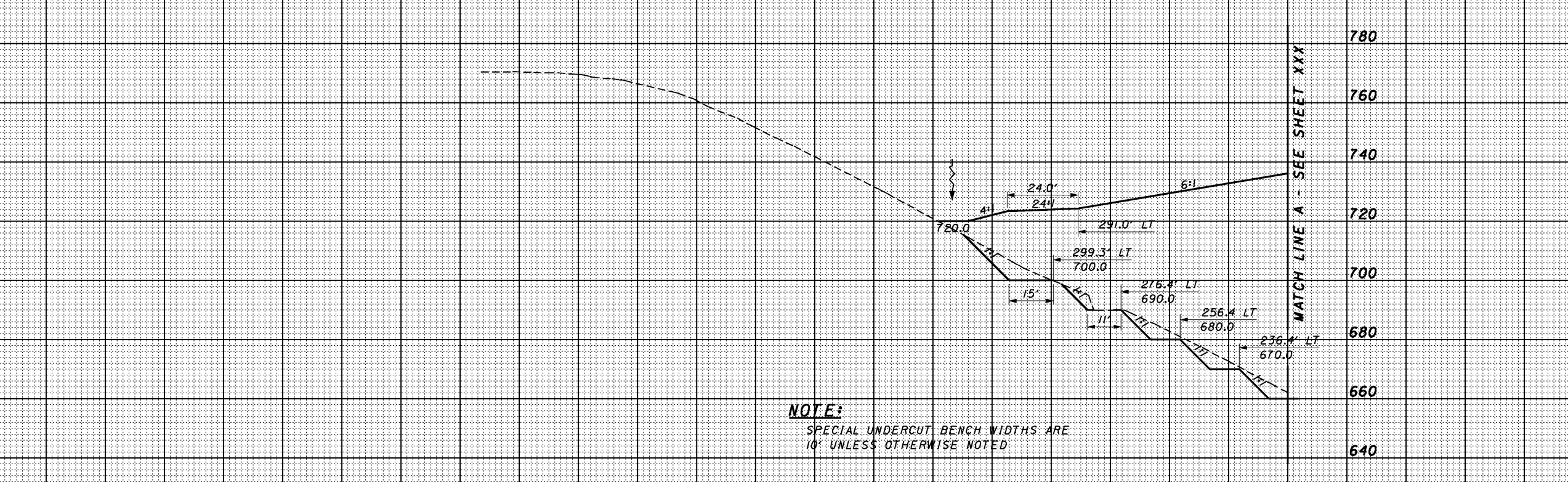
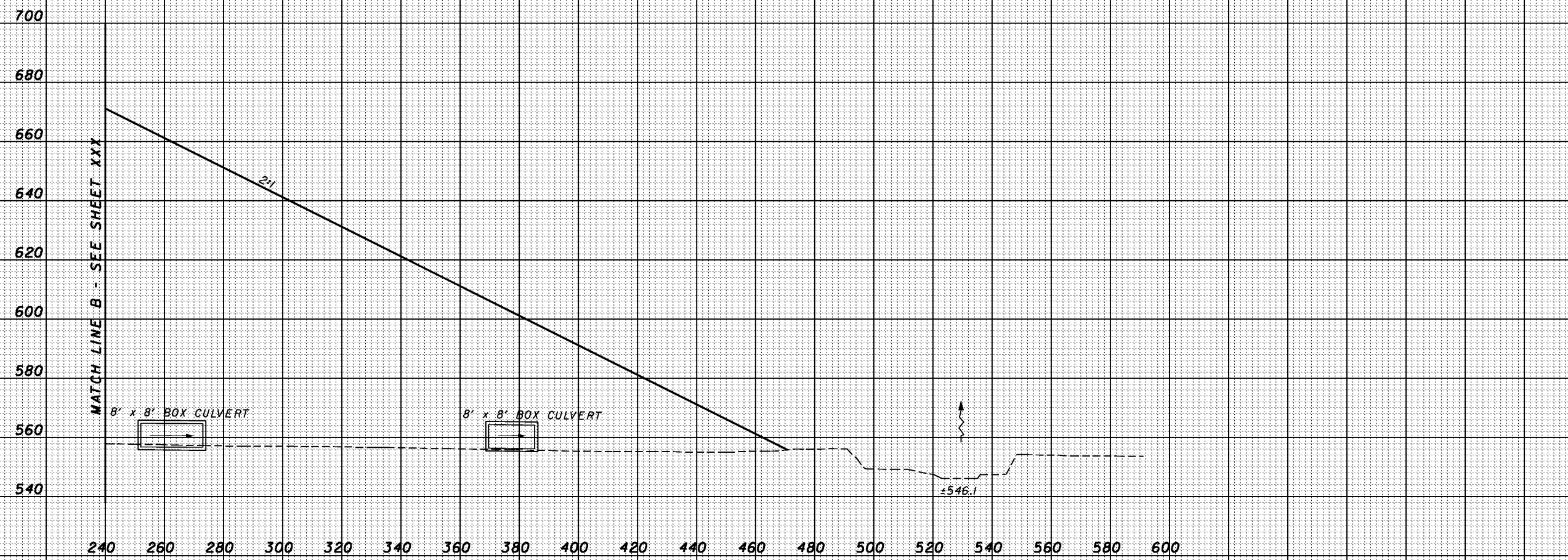
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS  
SR823 - STA. 302+50.00

SCI-823-0.00

SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



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

SHEET TOTAL

SHEET TOTAL

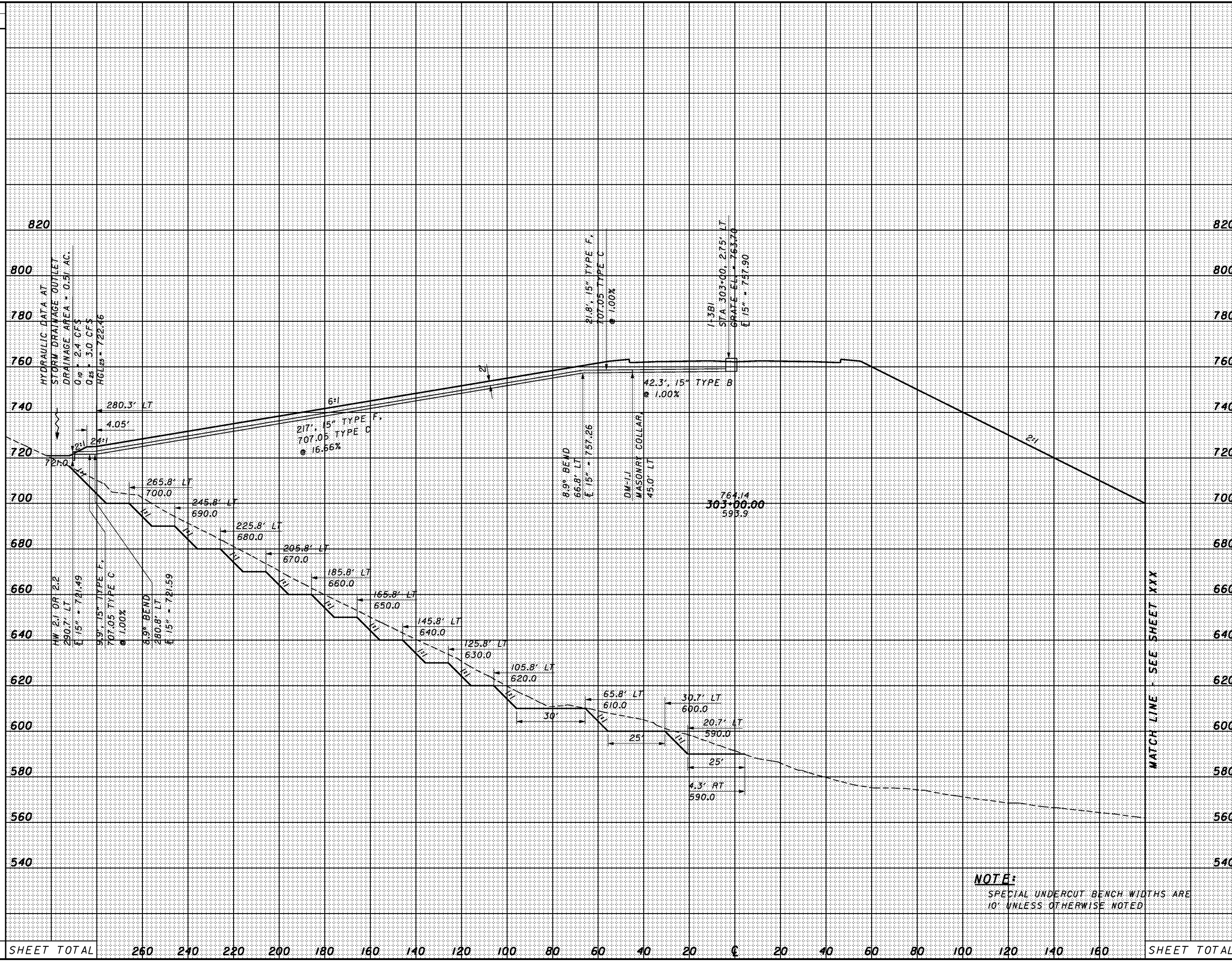
CROSS SECTIONS  
SR823 - STA. 302+50.00

SCI-823-0.00

467

1/30/2008 1:34:24 PM g:\c003\0064\Road\PHASE 3\T13666xs-sr823.dgn

SEEDING  
END WIDTH SO. YDS.  
1/30/2008 8:13:05 PM g:\c003\0064\Road\PHASE 3\T13668s-sr-823\_1.dgn



END	AREA		VOLUME		CALCULATED	CHECKED																				
	CUT	FILL	CUT	FILL																						
820																										
800																										
780																										
760																										
740																										
720																										
700																										
680																										
660																										
640																										
620																										
600																										
580																										
560																										
540																										
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. 303+00.00

SCI-823-0.00

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

MATCH LINE - SEE SHEET XXX



1/31/25 PM 1/30/2008 g:\C003\0064\Road\PHASE 3\171366\ss-sr-823\_1.dgn

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

720  
700  
680  
660  
640  
620  
600  
580  
560  
540

180 200 220 240 260 280 300 320 340 360 380 400 420 440 460 480 500 520 540 560 580 600

MATCH LINE - SEE SHEET XXX

2:1

8' x 8' BOX CULVERT

8' x 8' BOX CULVERT

+545.6

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

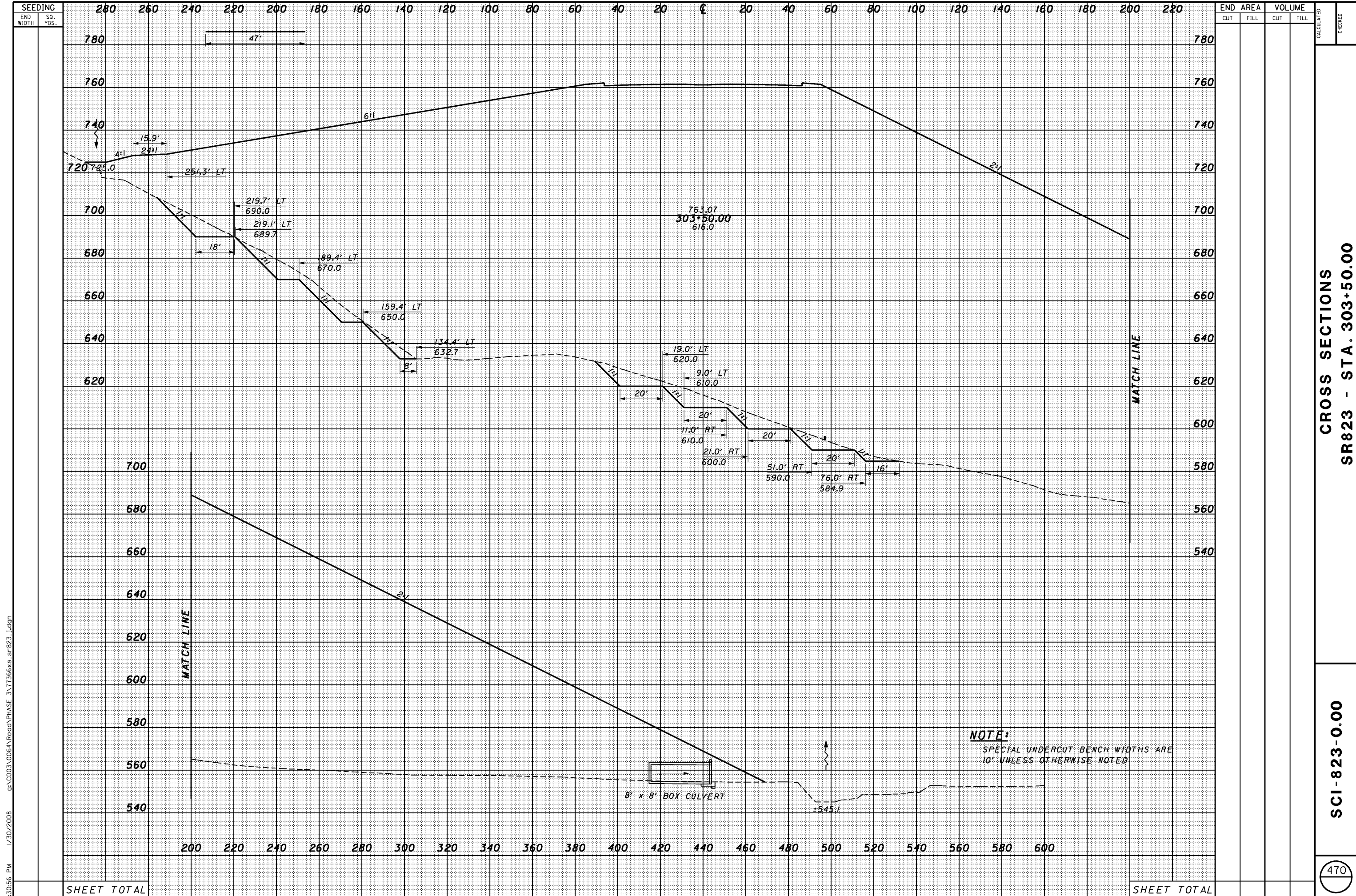
SHEET TOTAL

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 303+00.00

SCI-823-0.00

469



1/30/2008 1:30:56 PM g:\C003\0064\Road\PHASE 3\T13666xs-sr-823\_1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

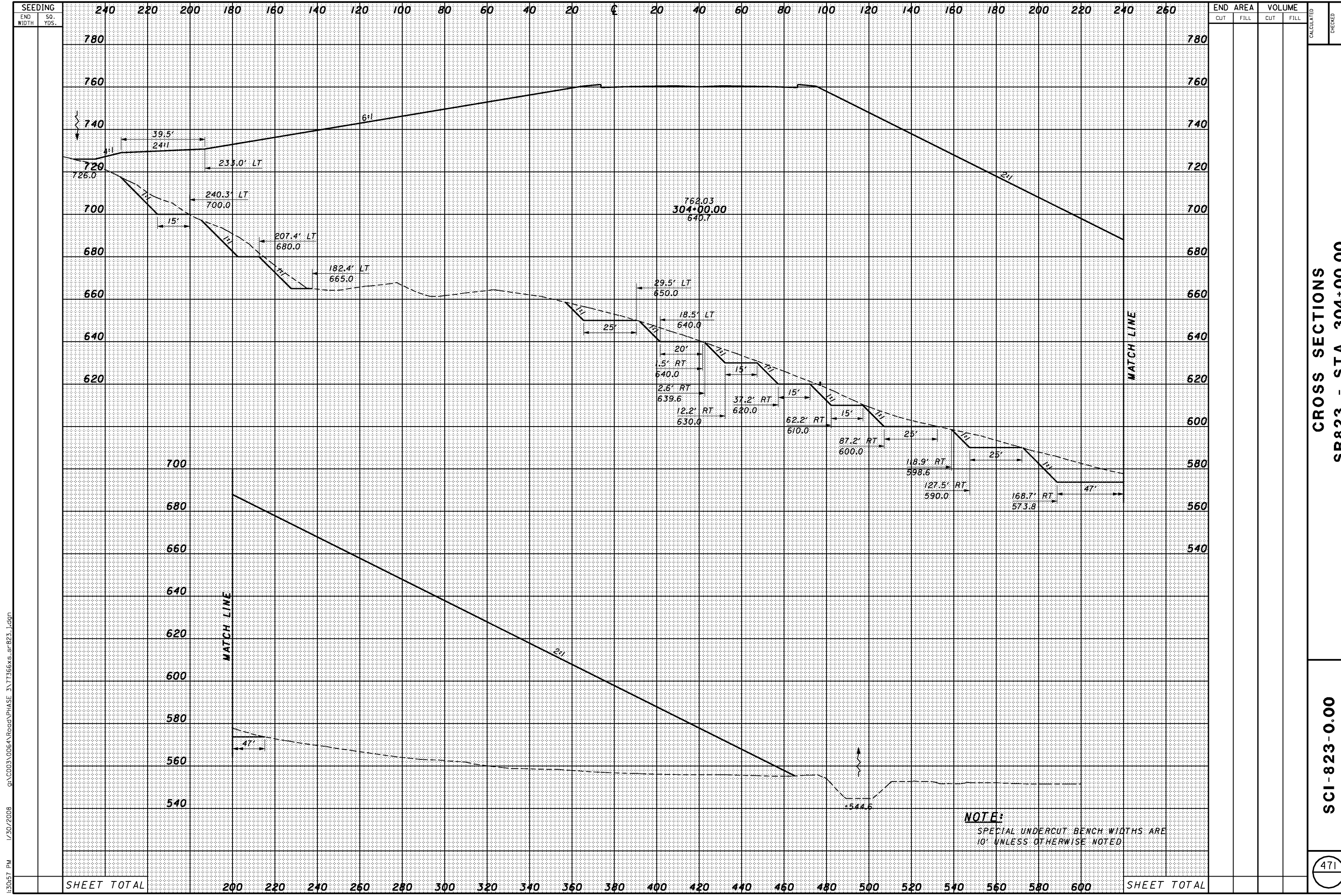
CALCULATED	CHECKED
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**CROSS SECTIONS  
SR823 - STA. 303+50.00**

**SCI-823-0.00**

SHEET TOTAL

SHEET TOTAL



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SHEET TOTAL

SHEET TOTAL

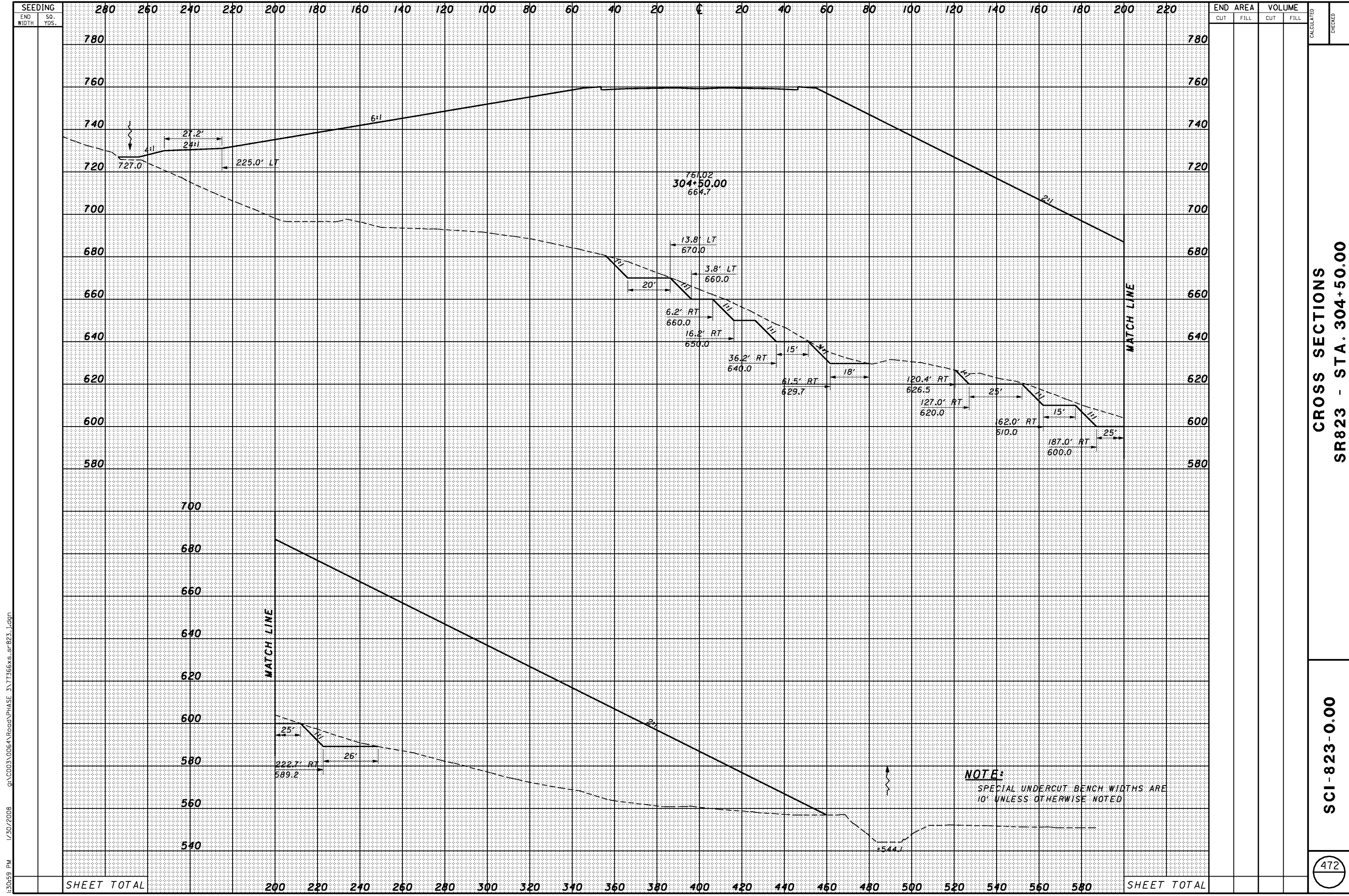
CROSS SECTIONS  
SR823 - STA. 304+00.00

SCI-823-0.00

471

END	AREA		VOLUME		CALCULATED	CHECKED
	CUT	FILL	CUT	FILL		



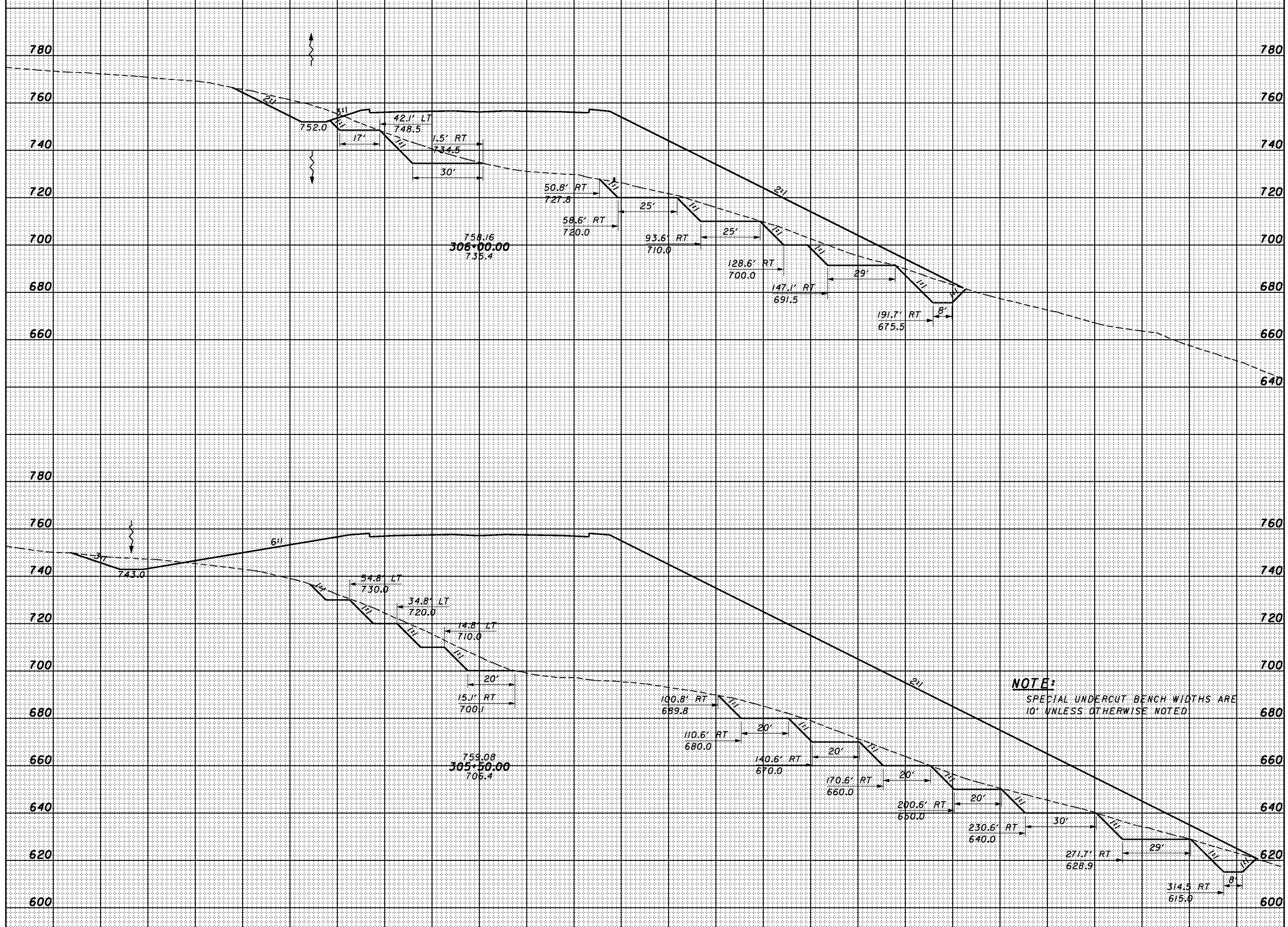


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SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



758.16  
306+00.00  
735.4

759.08  
305+50.00  
706.4

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

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. 305+50.00 TO STA. 306+00.00

SCI-823-0.00

1/30/2008 g:\c003\0064\Road\PHASE 3\T13666xs\_sr823\_1.dgn

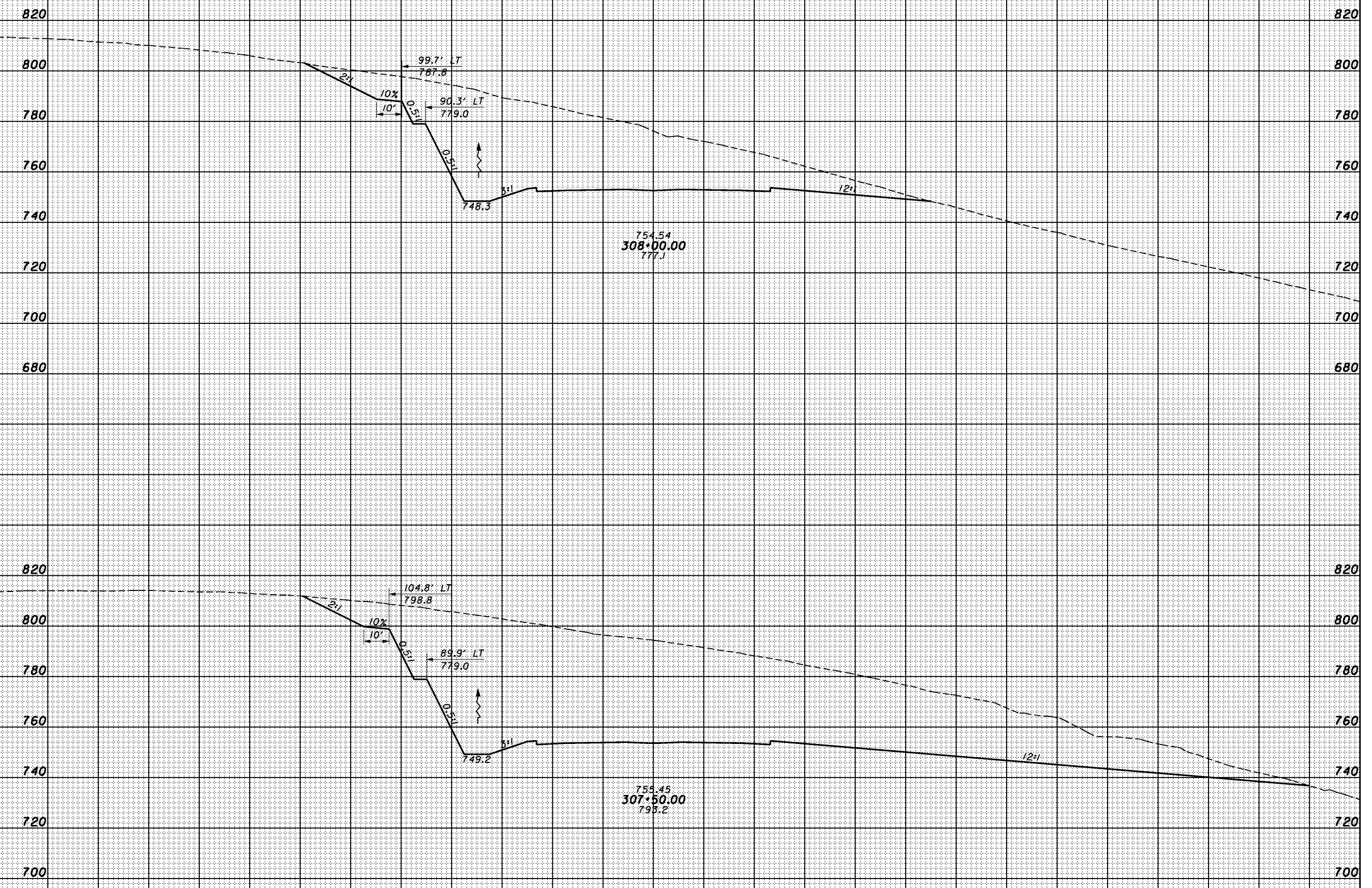




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SEEDING	
END WIDTH	SO. YDS.

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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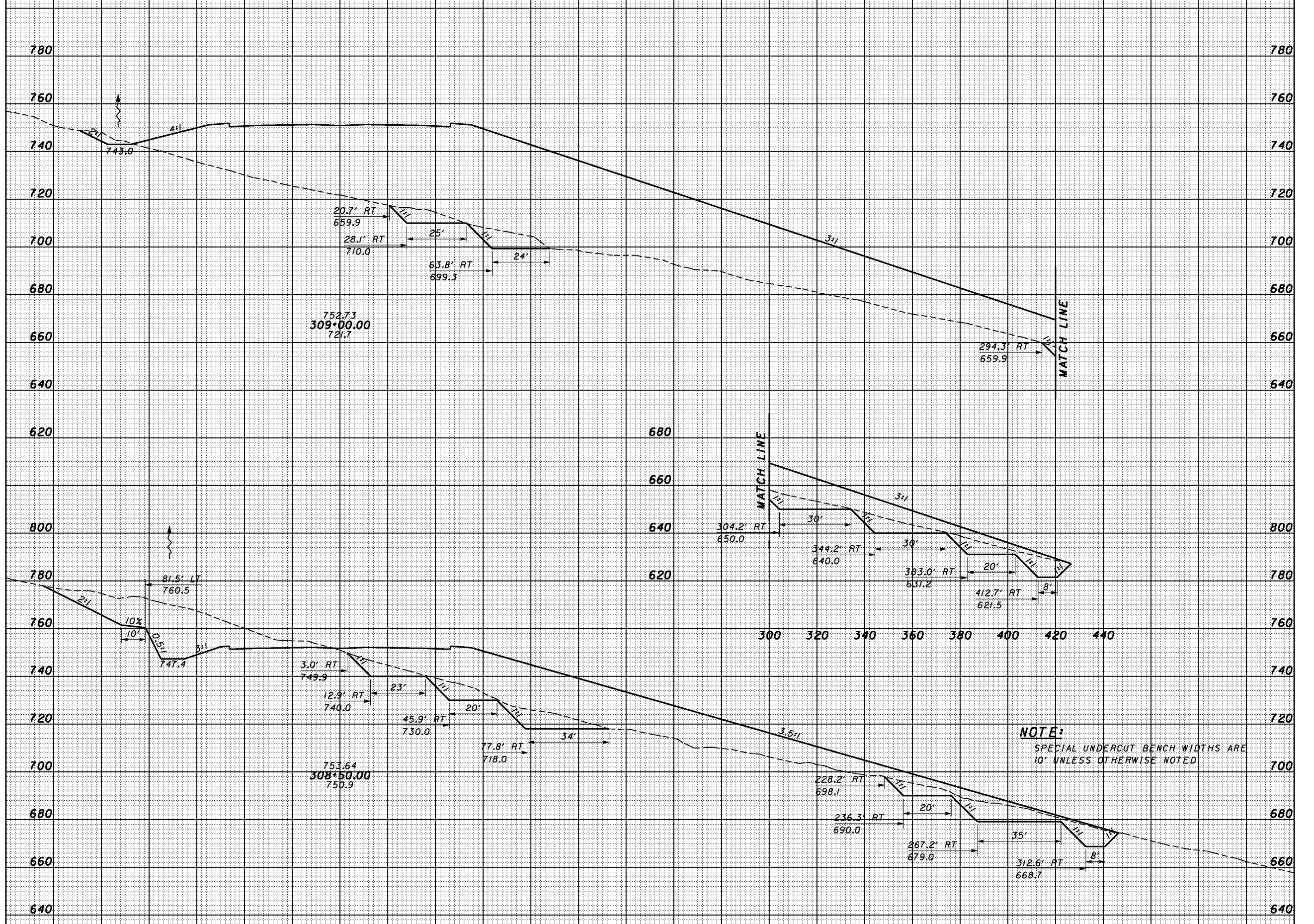
CROSS SECTIONS  
 SR823 - STA. 307+50.00 TO STA. 308+00.00

SCI-823-0.00

SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

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SHEET TOTAL	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	SHEET TOTAL
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CROSS SECTIONS  
SR823 - STA. 308+50.00 TO STA. 309+00.00

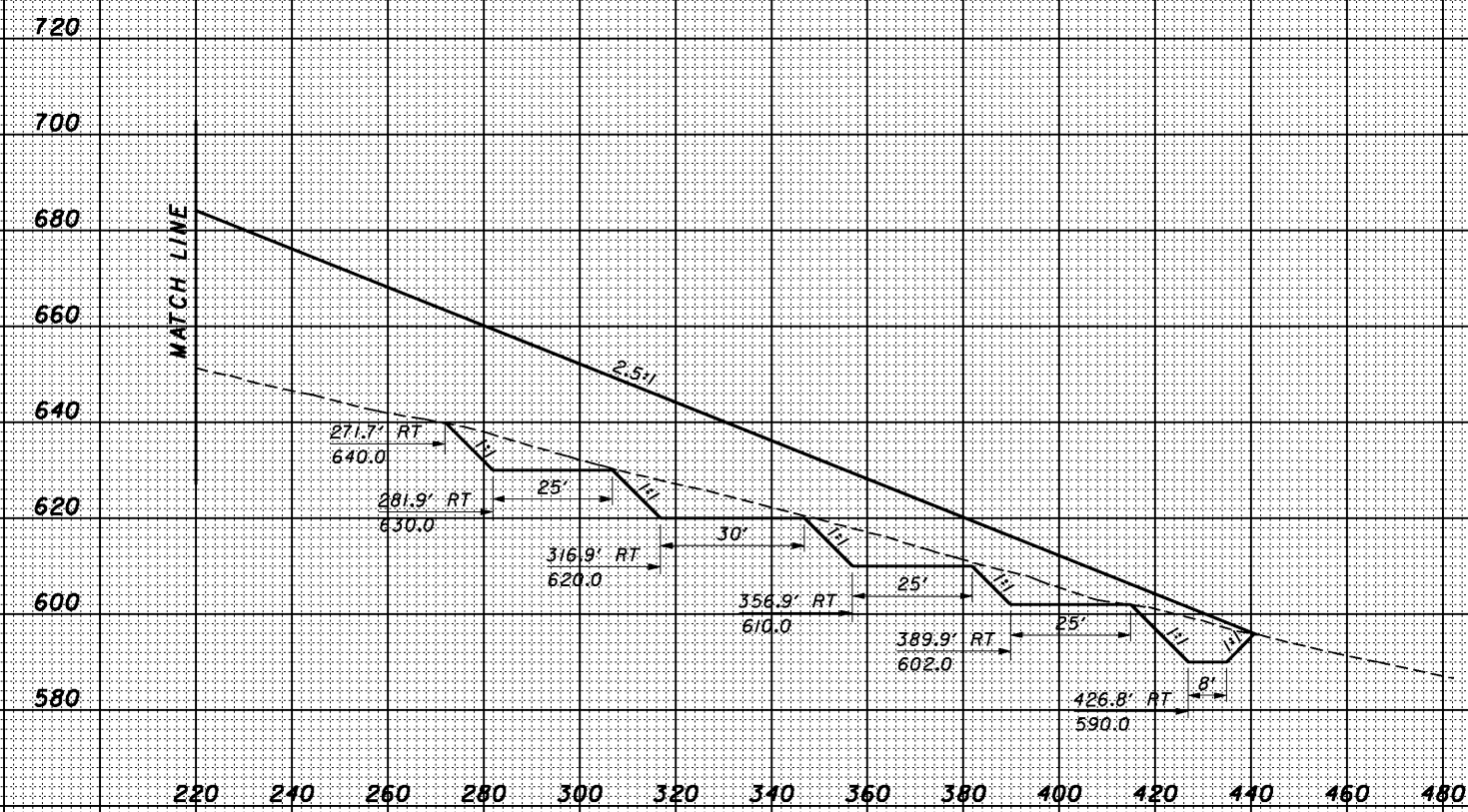
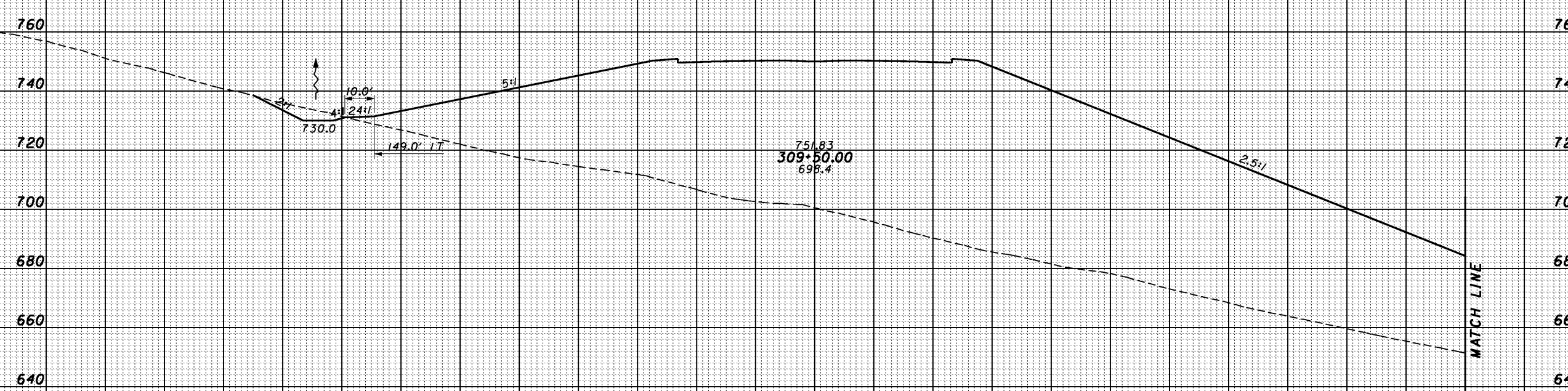
SCI-823-0.00



SEEDING  
END SO.  
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

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



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

SHEET TOTAL

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 309+50.00

SCI-823-0.00

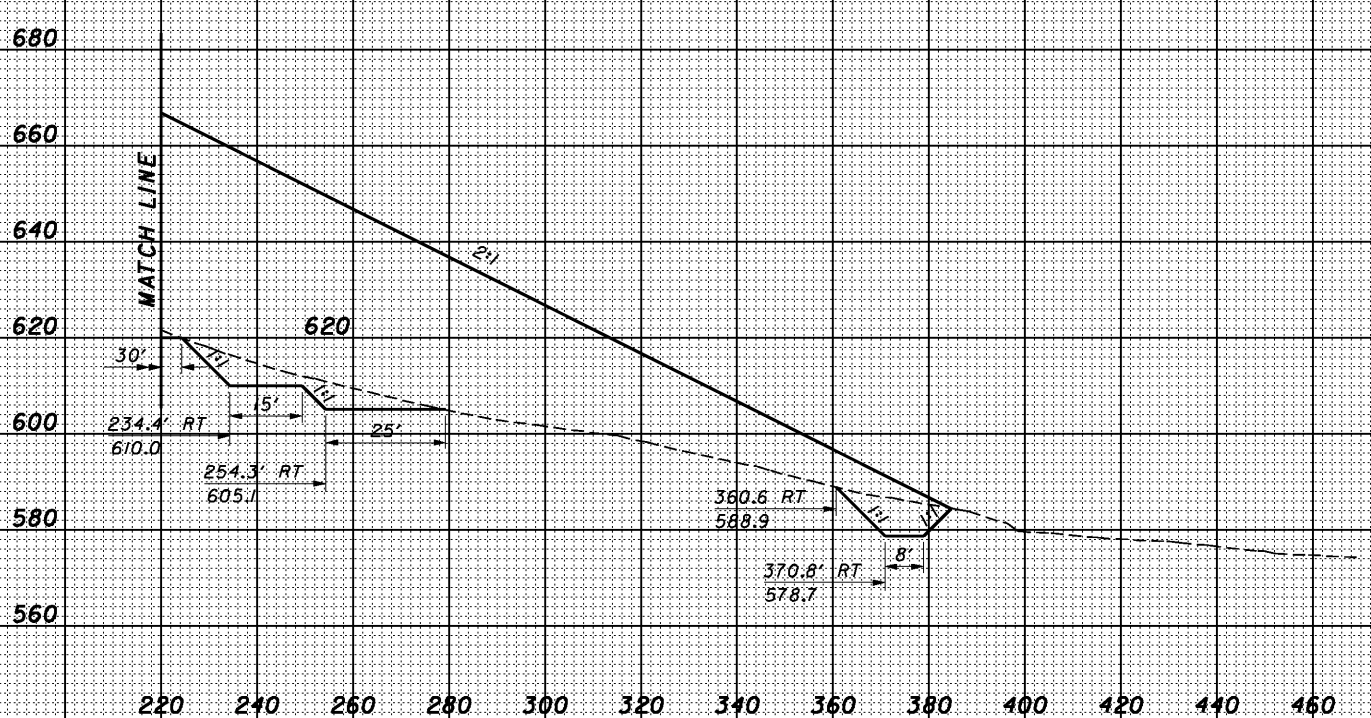
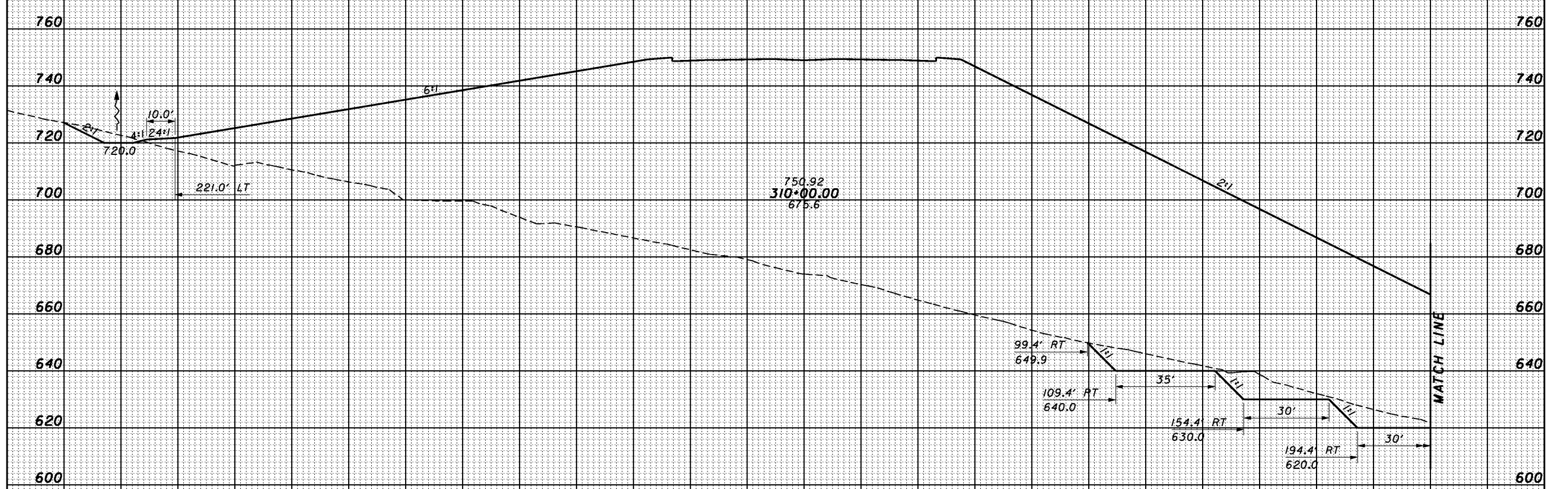
478

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SEEDING  
END SO.  
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

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



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

SHEET TOTAL

SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 310+00.00

SCI-823-0.00

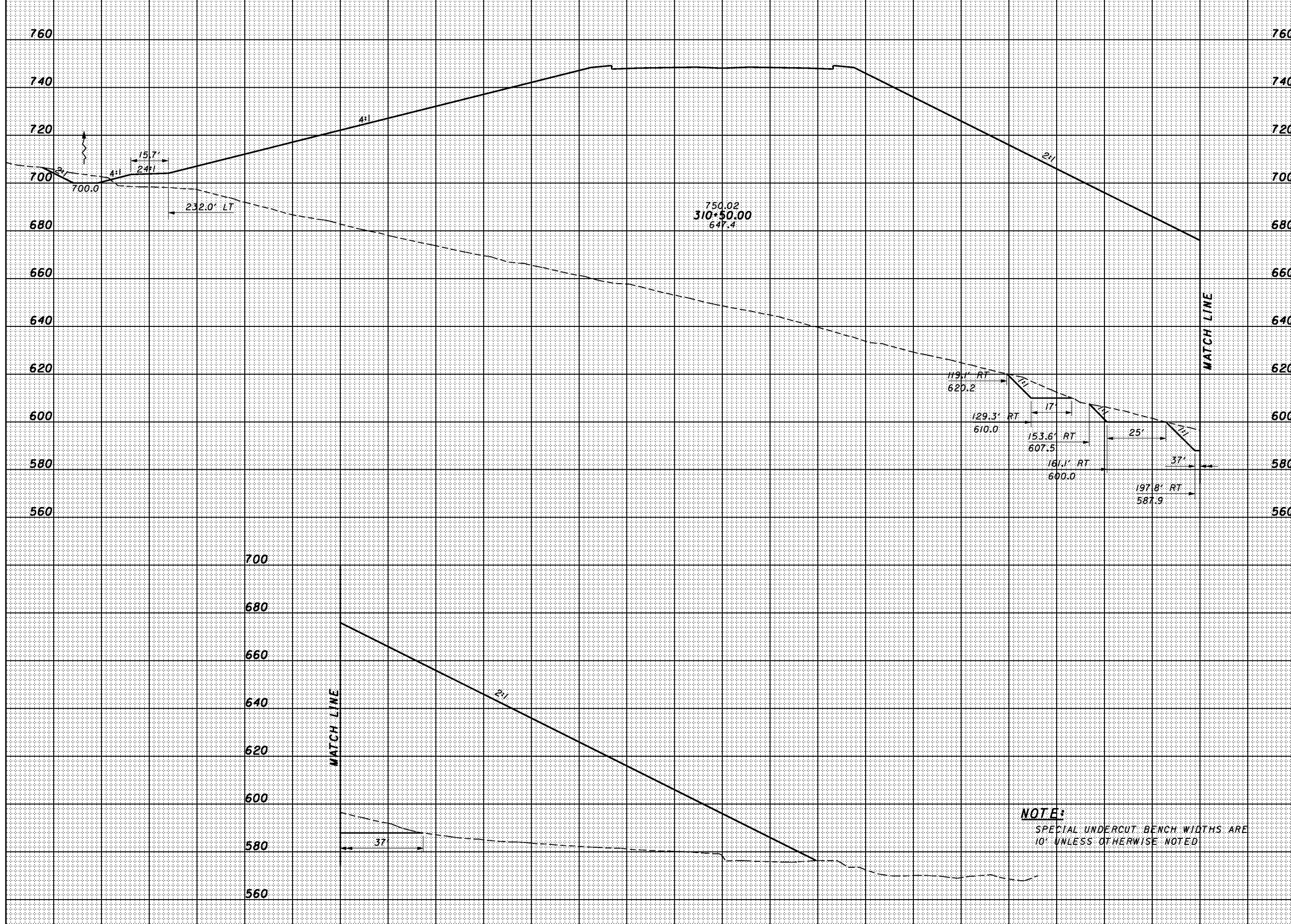
479

1/30/2008 1:34:08 PM g:\c003\0064\Road\PHASE\_3\T13666xs\_sr823\_1.dgn

SEEDING  
END SO.  
WIDTH YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

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



SHEET TOTAL

200 220 240 260 280 300 320 340 360 380 400 420 440 460 480 500

SHEET TOTAL

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CROSS SECTIONS  
SR823 - STA. 310+50.00

SCI-823-0.00

480





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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 311+00.00 TO STA. 311+50.00

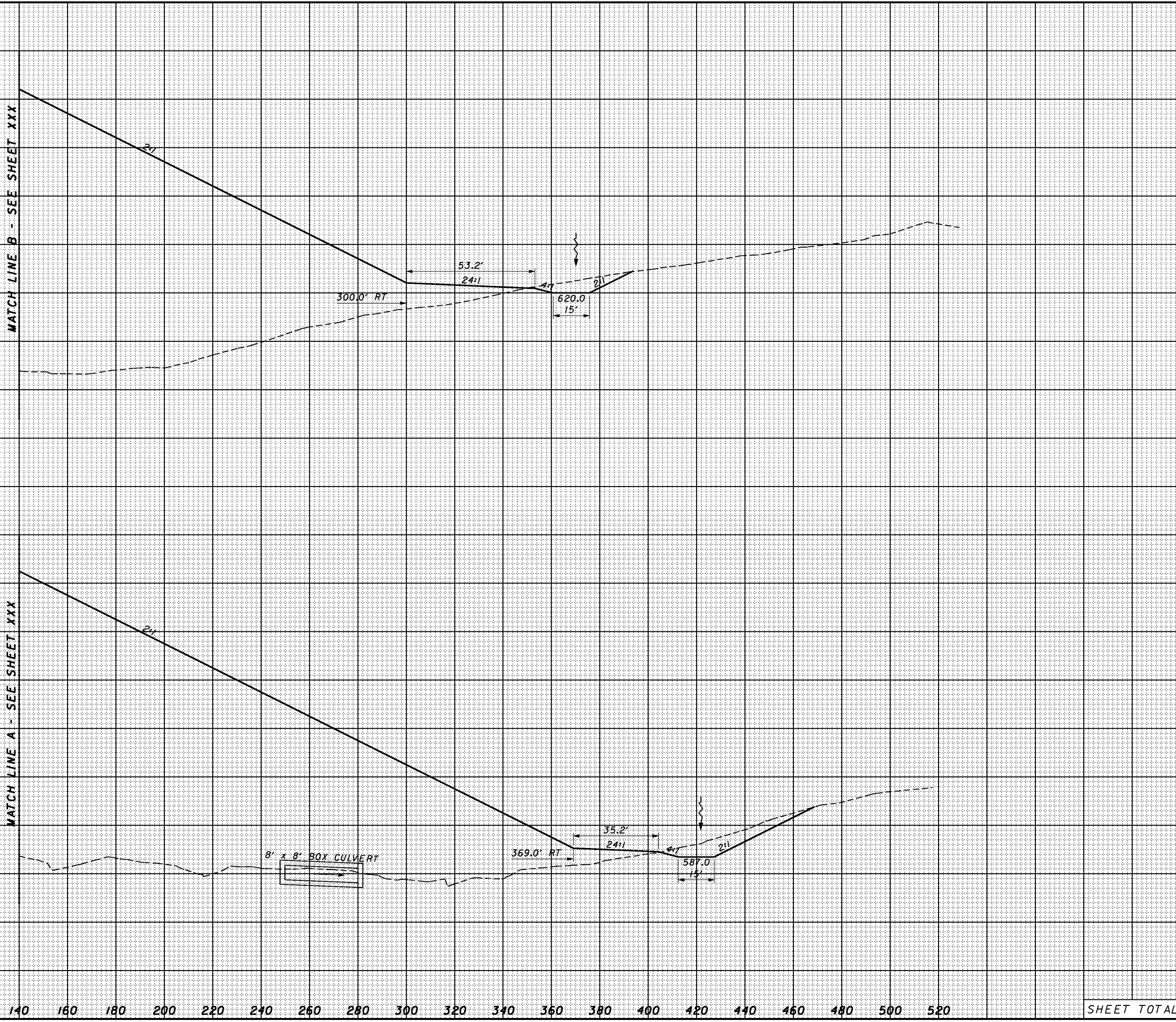
SCI-823-0.00

482

720  
700  
680  
660  
640  
620  
600  
580  
560

MATCH LINE B - SEE SHEET XXX

MATCH LINE A - SEE SHEET XXX



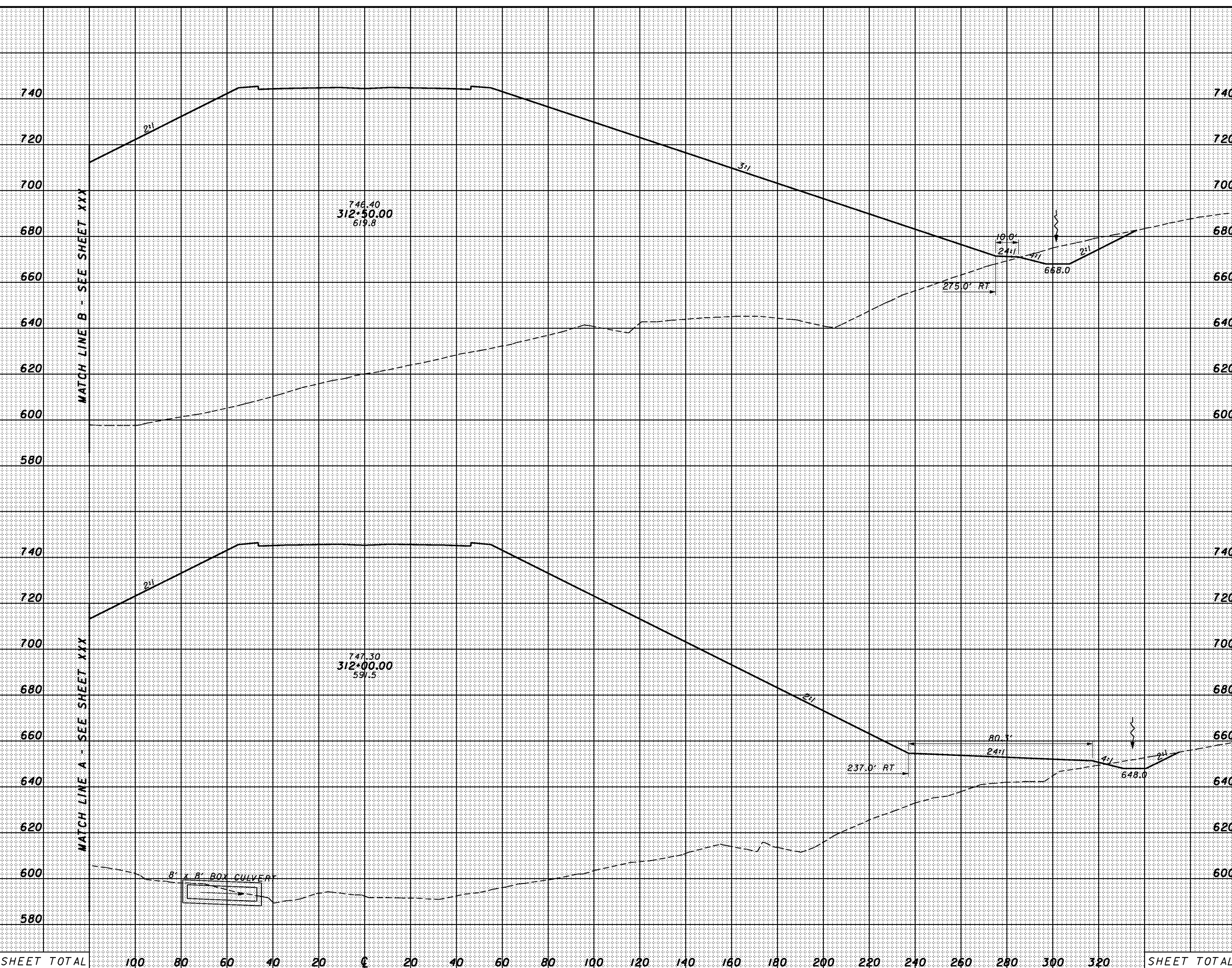
SHEET TOTAL

SHEET TOTAL

1/31/08 PM 1/30/2008 g:\C003\0064\Road\PHASE 3\T13666xs-sr-823\_1.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	SHEET TOTAL

CROSS SECTIONS  
 SR823 - STA. 312+00.00 TO STA. 312+50.00

SCI-823-0.00



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SEEDING	
END WIDTH	SO. YDS.

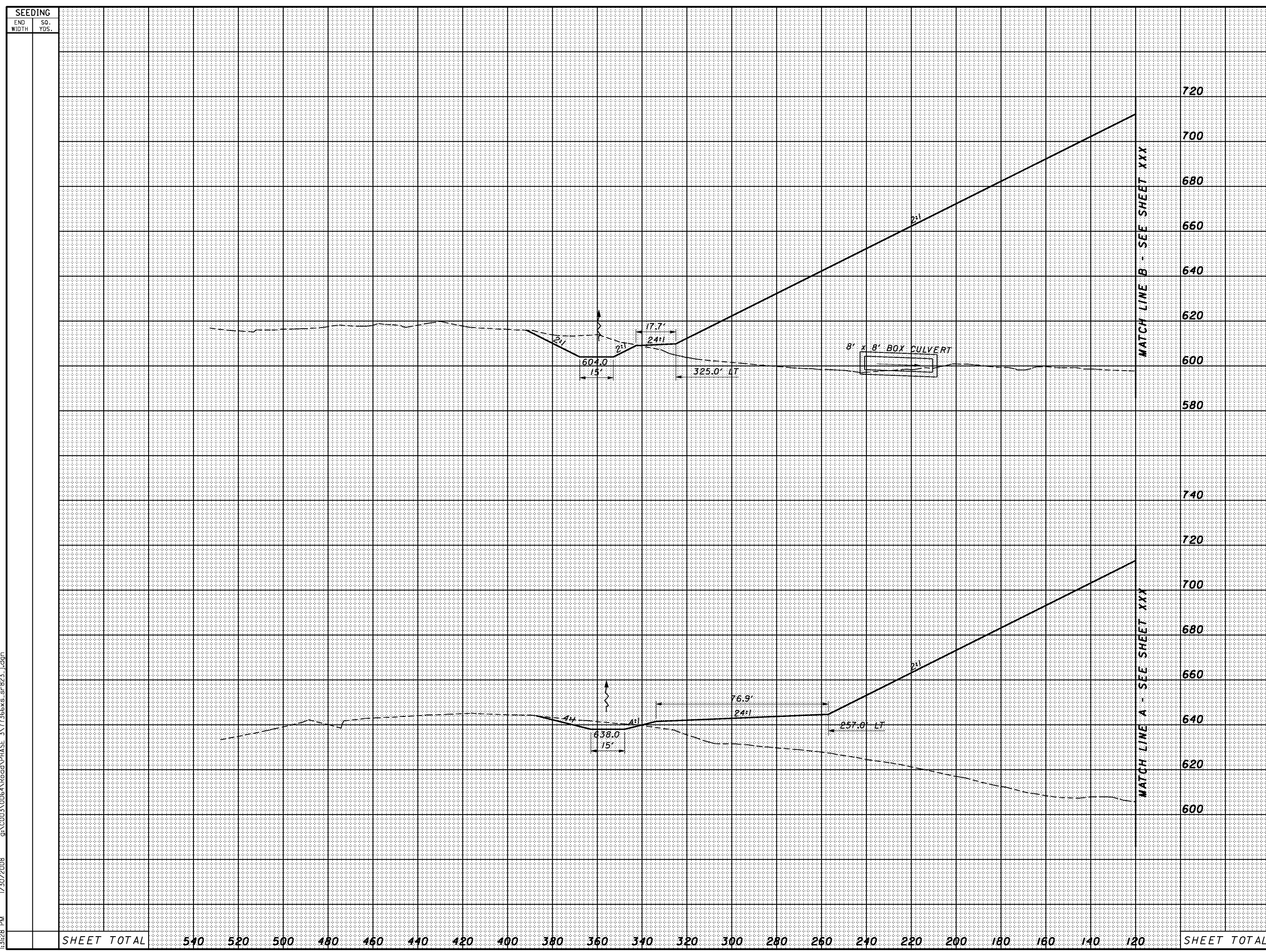
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 312+00.00 TO STA. 312+50.00

SCI-823-0.00

484



ELEVATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
720				
700				
680				
660				
640				
620				
600				
580				
740				
720				
700				
680				
660				
640				
620				
600				
SHEET TOTAL				

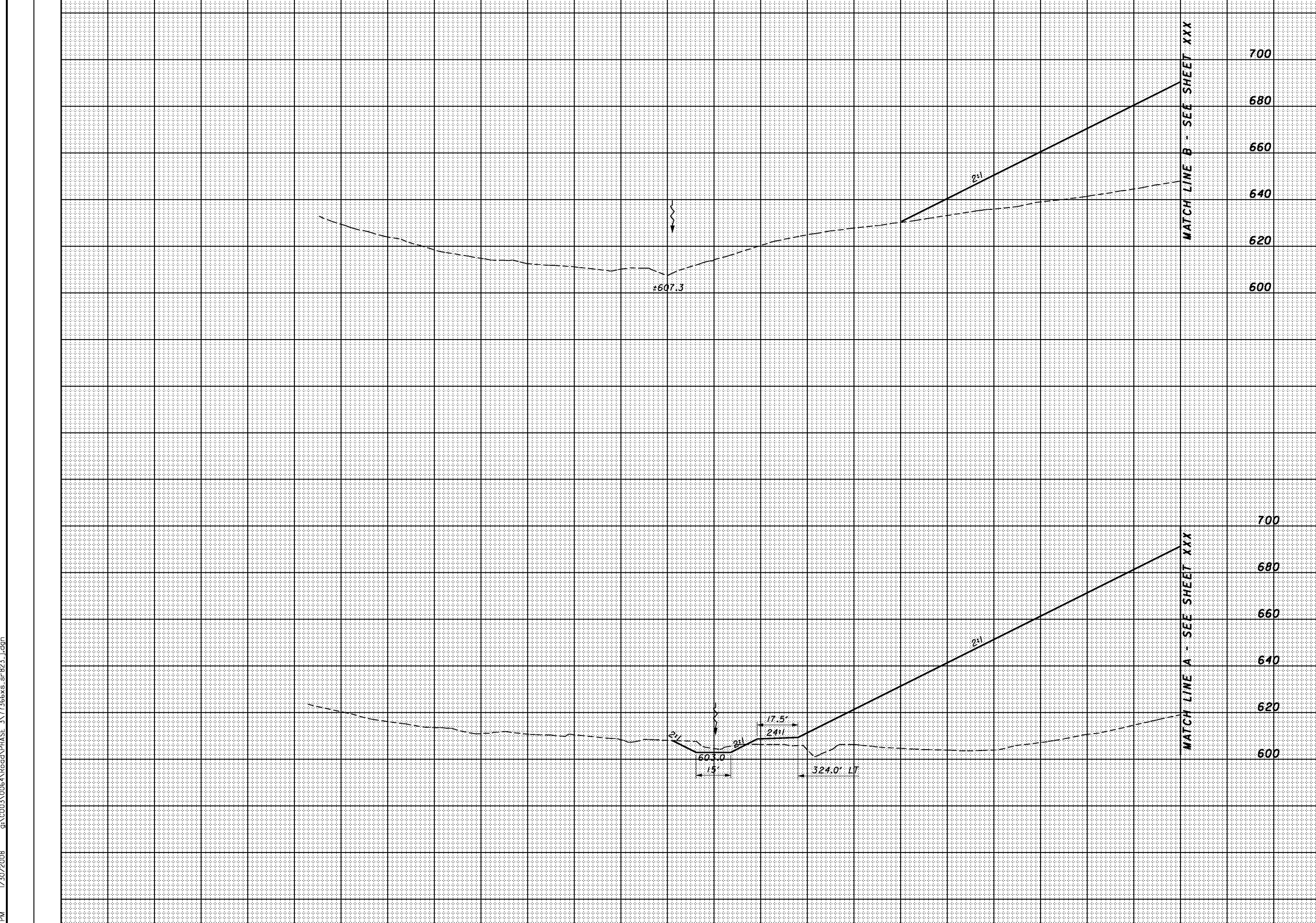
SHEET TOTAL      540   520   500   480   460   440   420   400   380   360   340   320   300   280   260   240   220   200   180   160   140   120      SHEET TOTAL



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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



ELEVATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
700				
680				
660				
640				
620				
600				
700				
680				
660				
640				
620				
600				

SR823 - STA. 313+00.00 TO STA. 313+50.00

SCI-823-0.00

486

SHEET TOTAL

540 520 500 480 460 440 420 400 380 360 340 320 300 280 260 240 220 200 180 160

SHEET TOTAL



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SEEDING	
END WIDTH	SO. YDS.

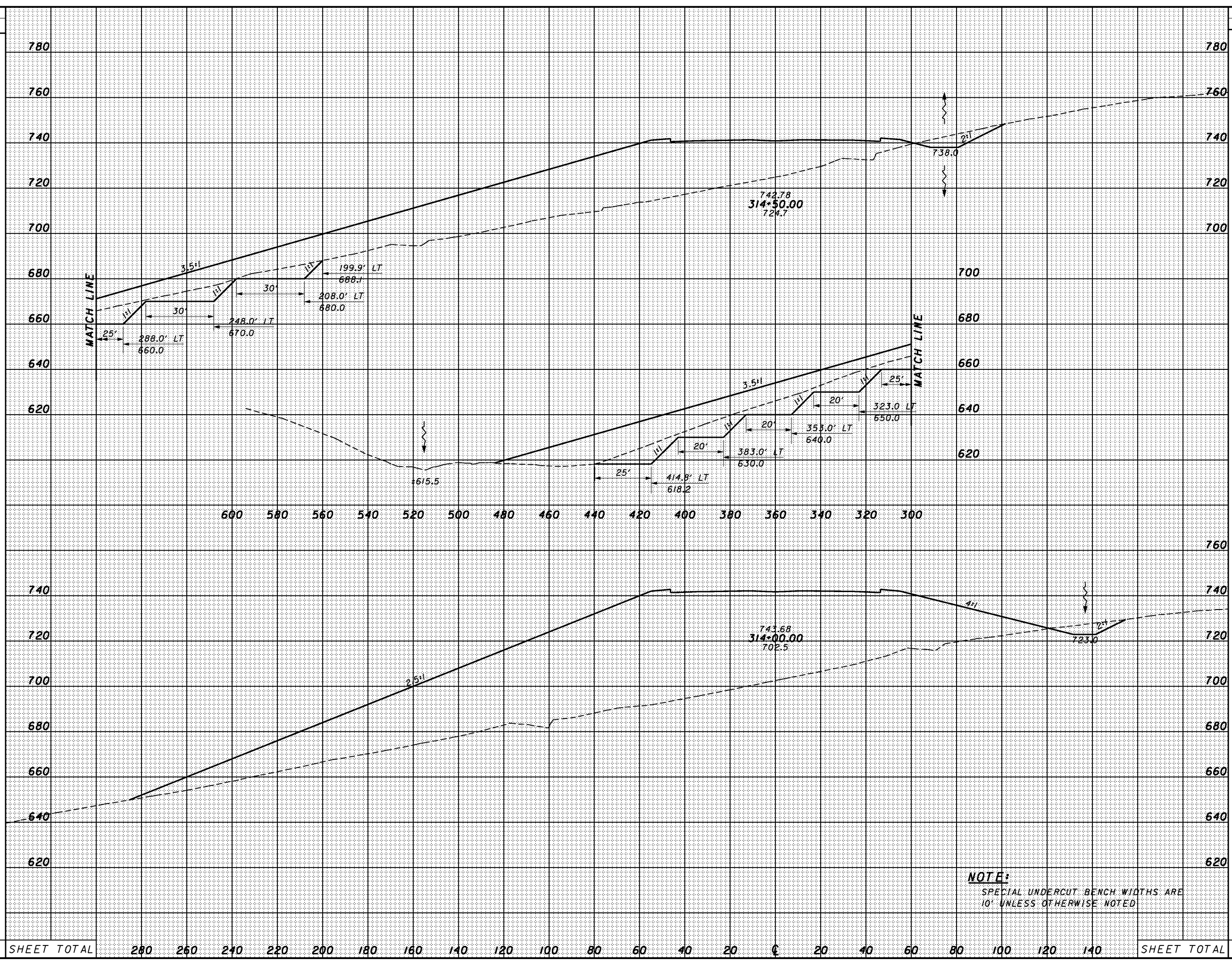
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED

CROSS SECTIONS  
SR823 - STA. 314+00.00 TO STA. 314+50.00

SCI-823-0.00

487



**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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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. 315+00.00

SCI-823-0.00

9:00:20 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\T136668s-sr-823\_k.dgn

SEEDING	
END WIDTH	SO. YDS.

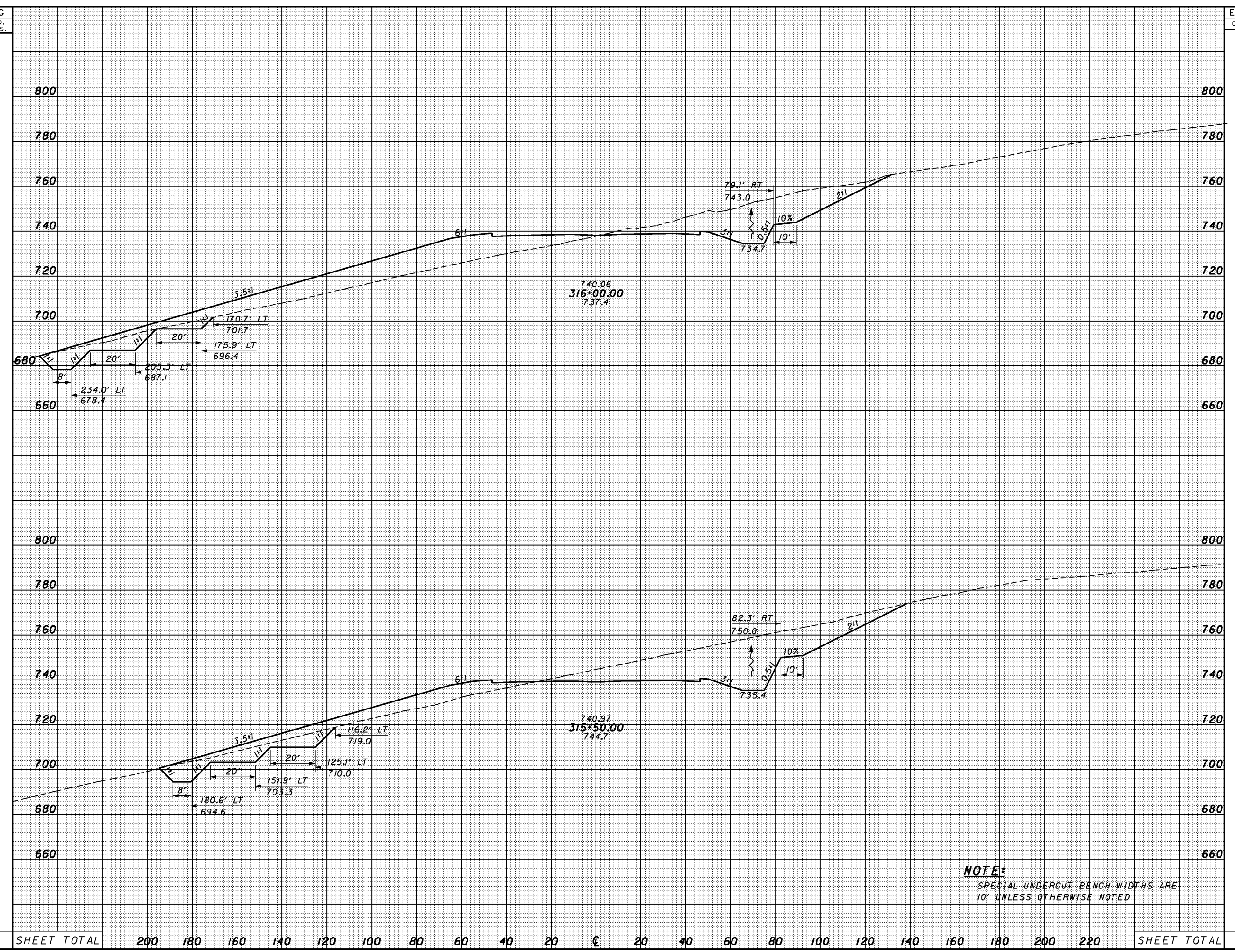
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 315+50.00 TO STA. 316+00.00

SCI-823-0.00

489



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

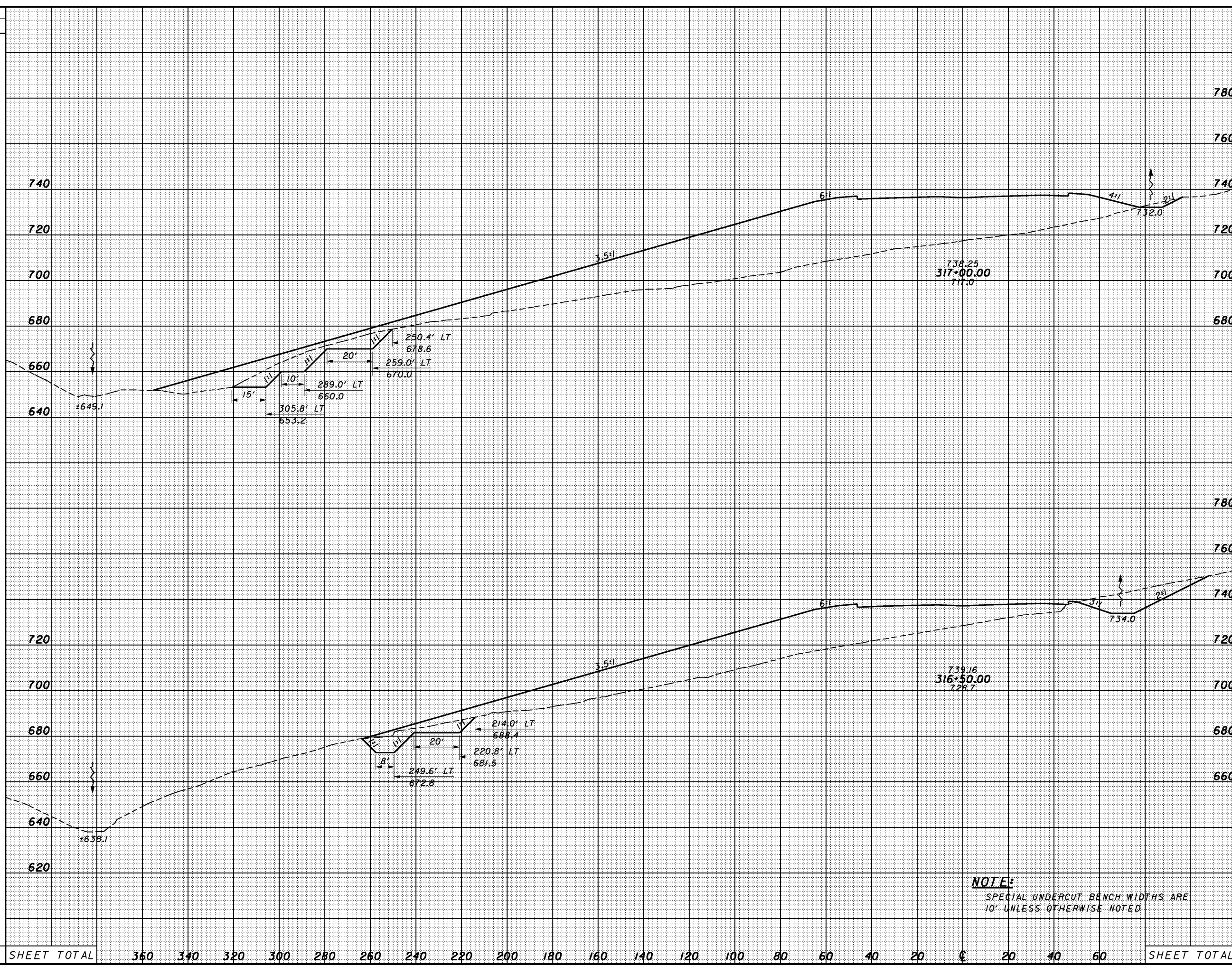
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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9:00:21 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\T13668s-sr-823.k.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



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

SHEET TOTAL	360	340	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	20	40	60	SHEET TOTAL
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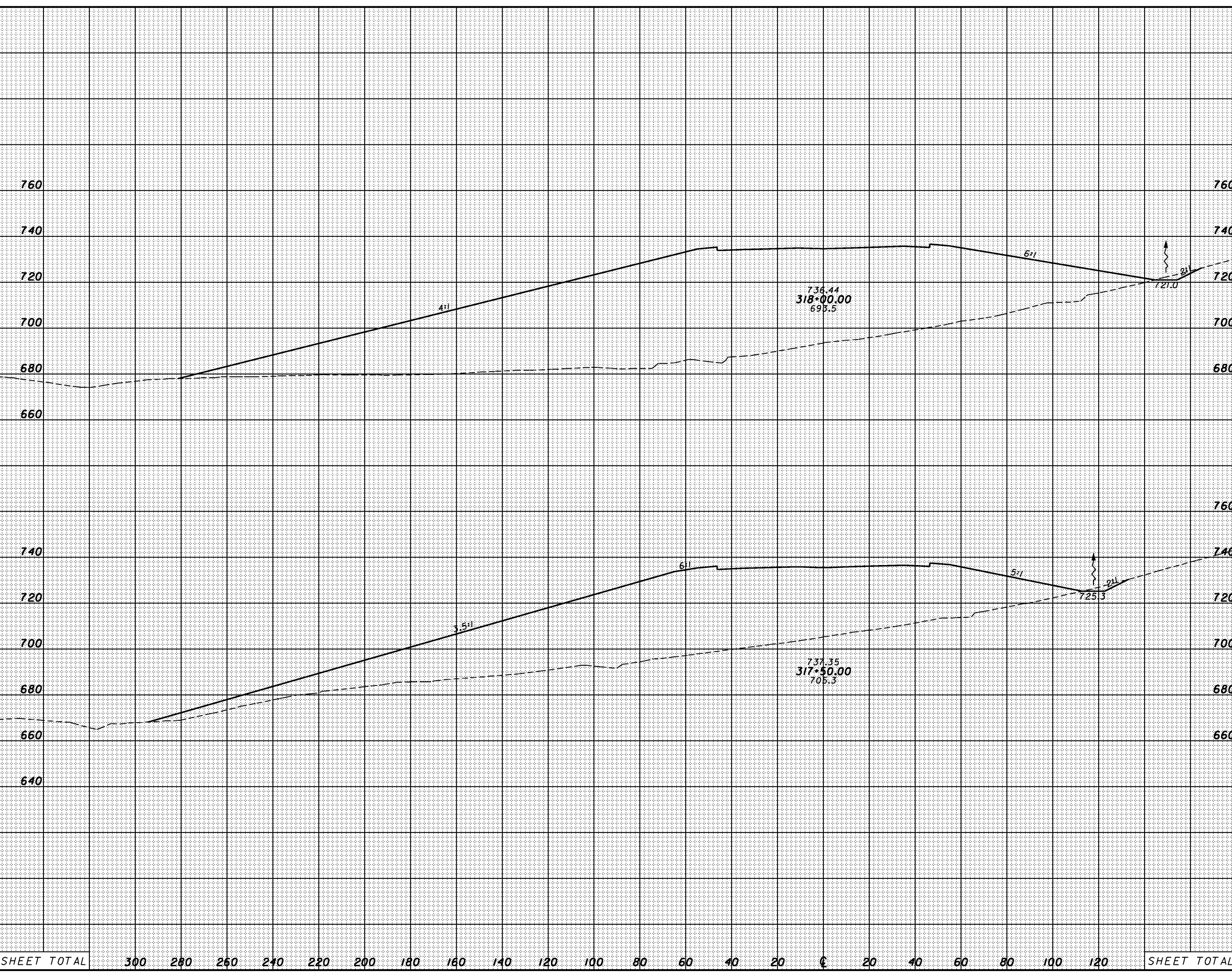
CROSS SECTIONS  
SR823 - STA. 316+50.00 TO STA. 317+00.00

SCI-823-0.00

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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SHEET TOTAL	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	CL	20	40	60	80	100	120	SHEET TOTAL
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CROSS SECTIONS  
 SR823 - STA. 317+50.00 TO STA. 318+00.00

SCI-823-0.00

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SEEDING	
END WIDTH	SO. YDS.

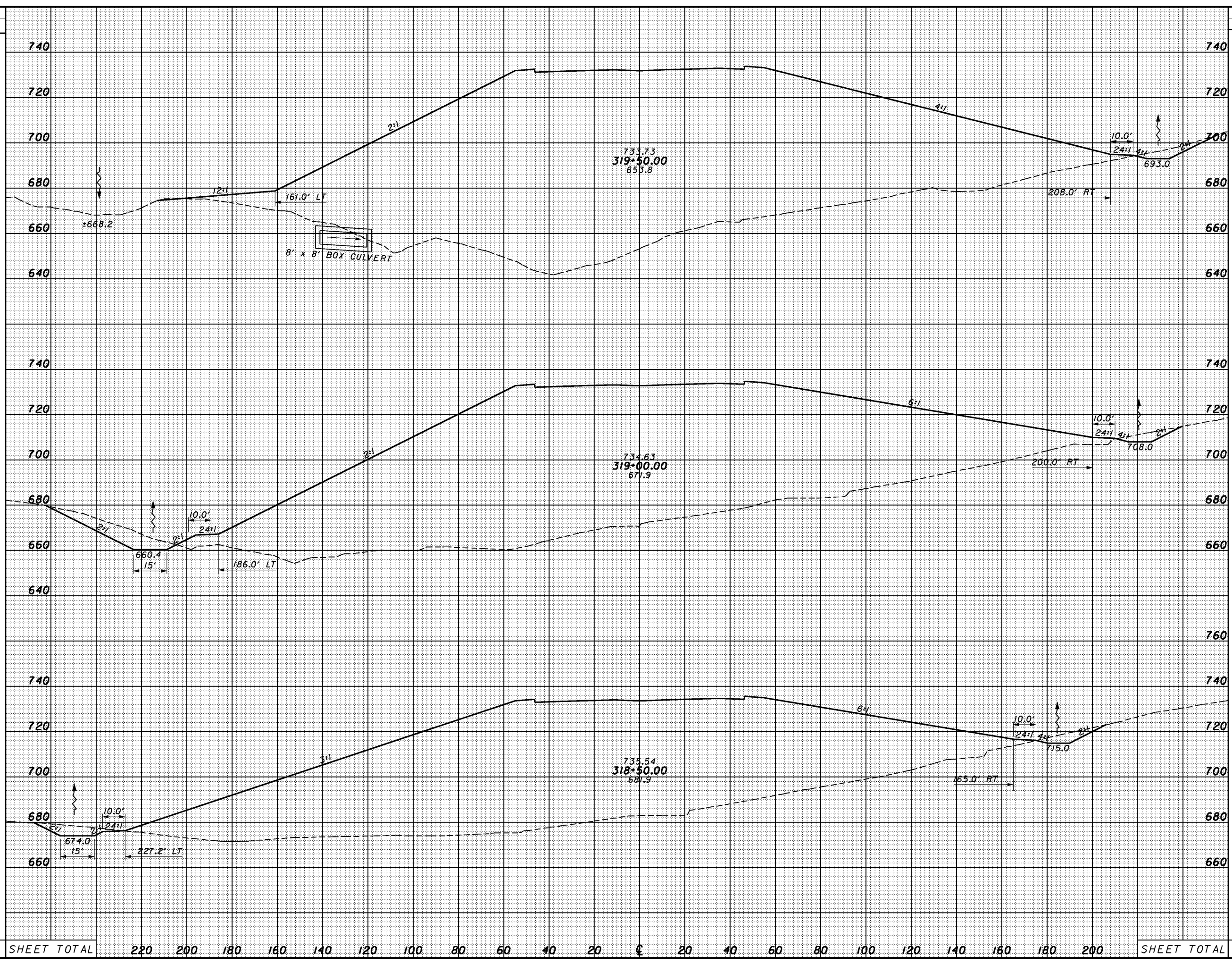
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 318+50.00 TO STA. 319+50.00

SCI-823-0.00

492



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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9:00:24 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\173668x-sr-823\_k.dgn

SEEDING	
END WIDTH	SO. YDS.

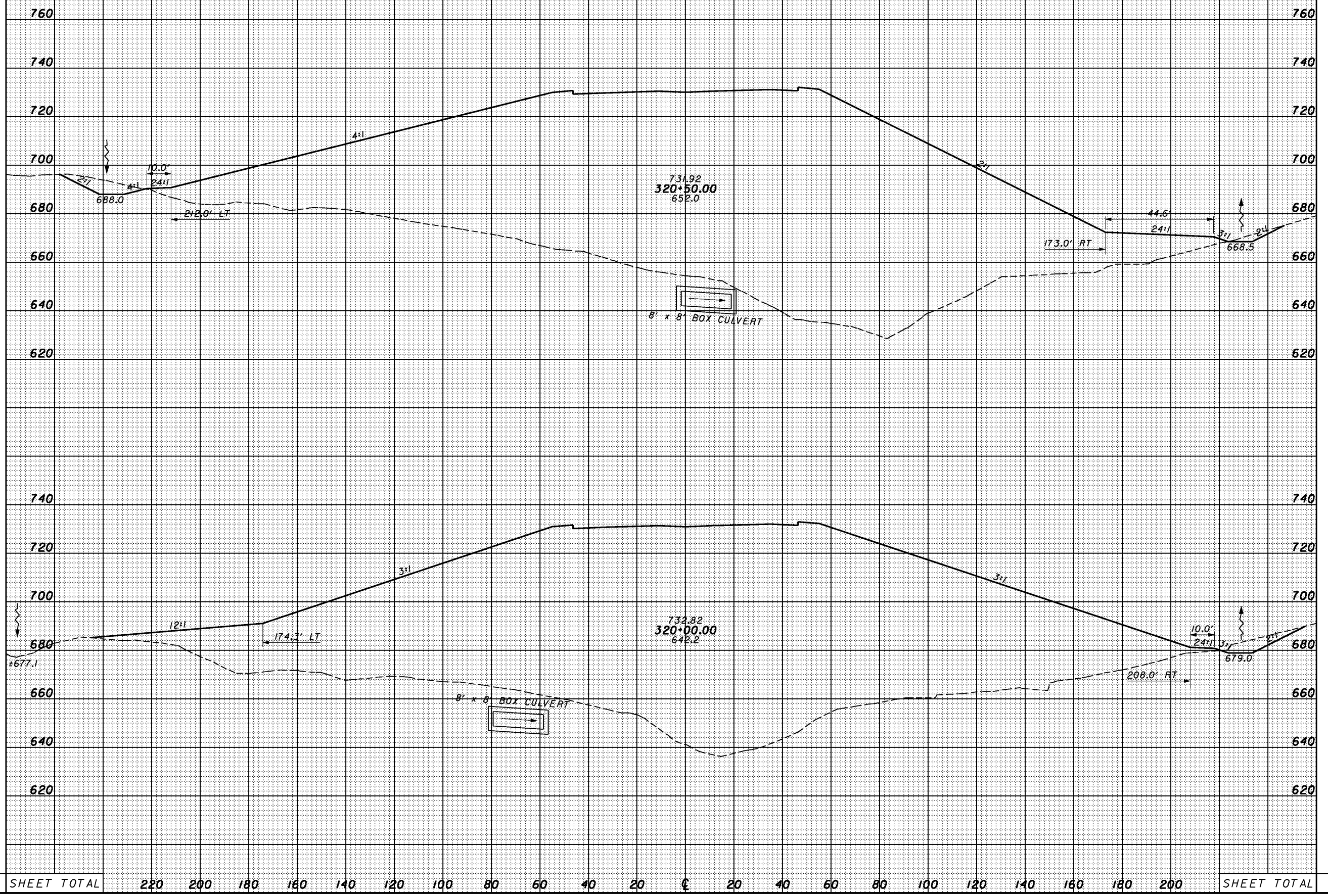
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 320+00.00 TO STA. 320+50.00

SCI-823-0.00

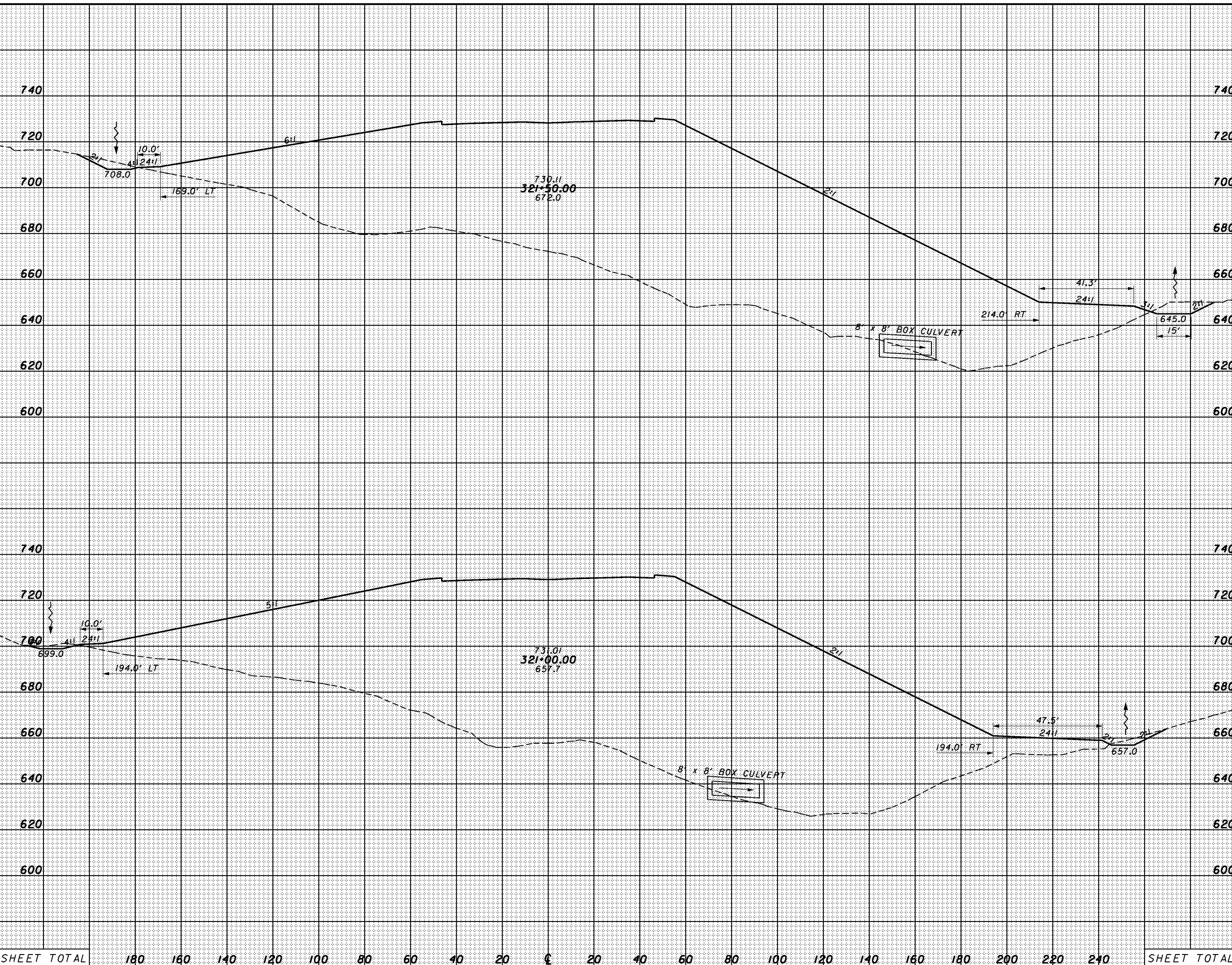
493



9:00:25 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823-k.dgn

SEEDING  
END SO.  
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



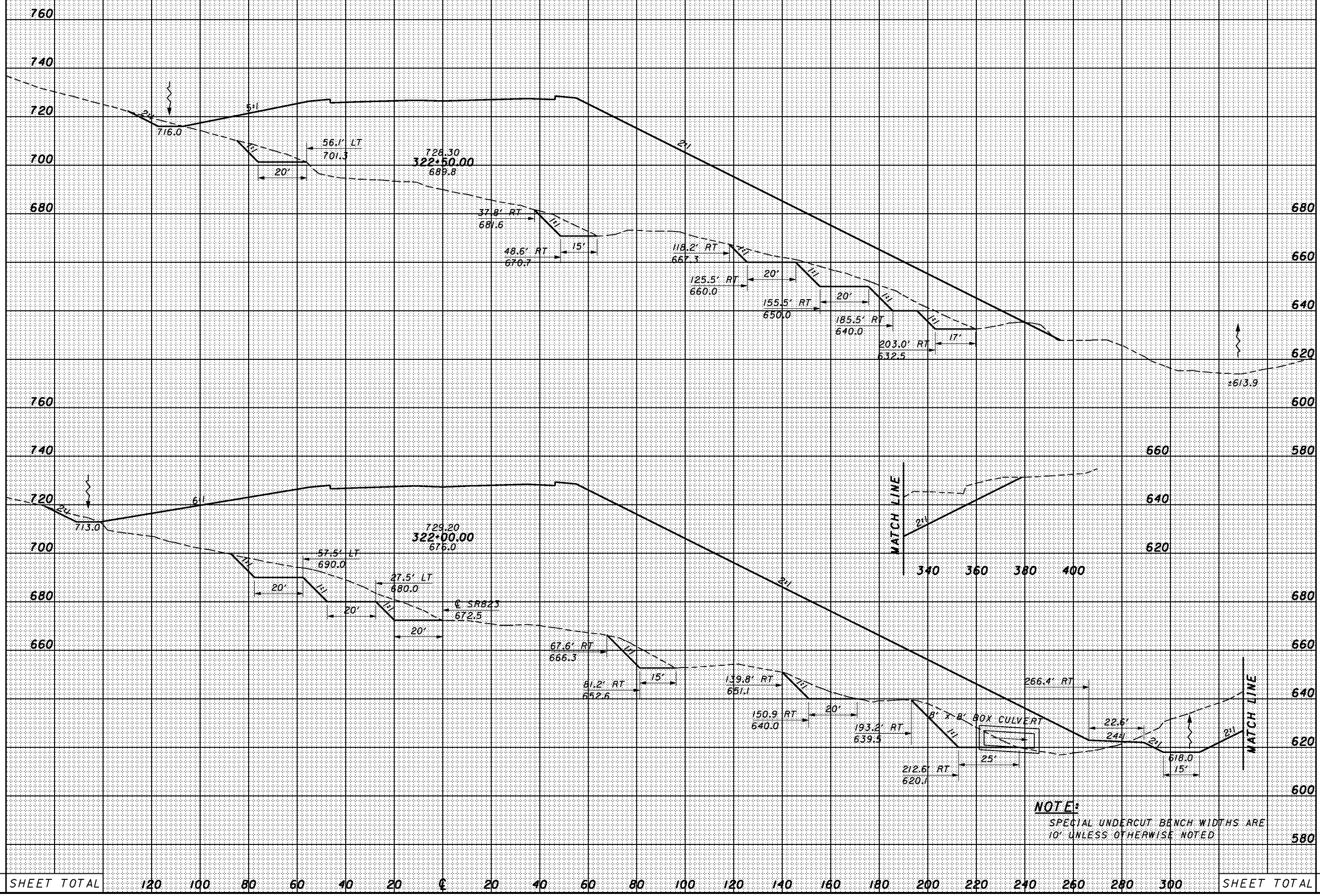
SHEET TOTAL	180	160	140	120	100	80	60	40	20	±	20	40	60	80	100	120	140	160	180	200	220	240	SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 321+00.00 TO STA. 321+50.00

SCI-823-0.00

SEEDING  
 END WIDTH SO. YDS.  
 9:00:25 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823-k.dgn

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SEEDING	END WIDTH	SO. YDS.	120	100	80	60	40	20	±	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	SHEET TOTAL

CROSS SECTIONS  
 SR823 - STA. 322+00.00 TO STA. 322+50.00  
 SCI-823-0.00



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SEEDING	
END WIDTH	SO. YDS.

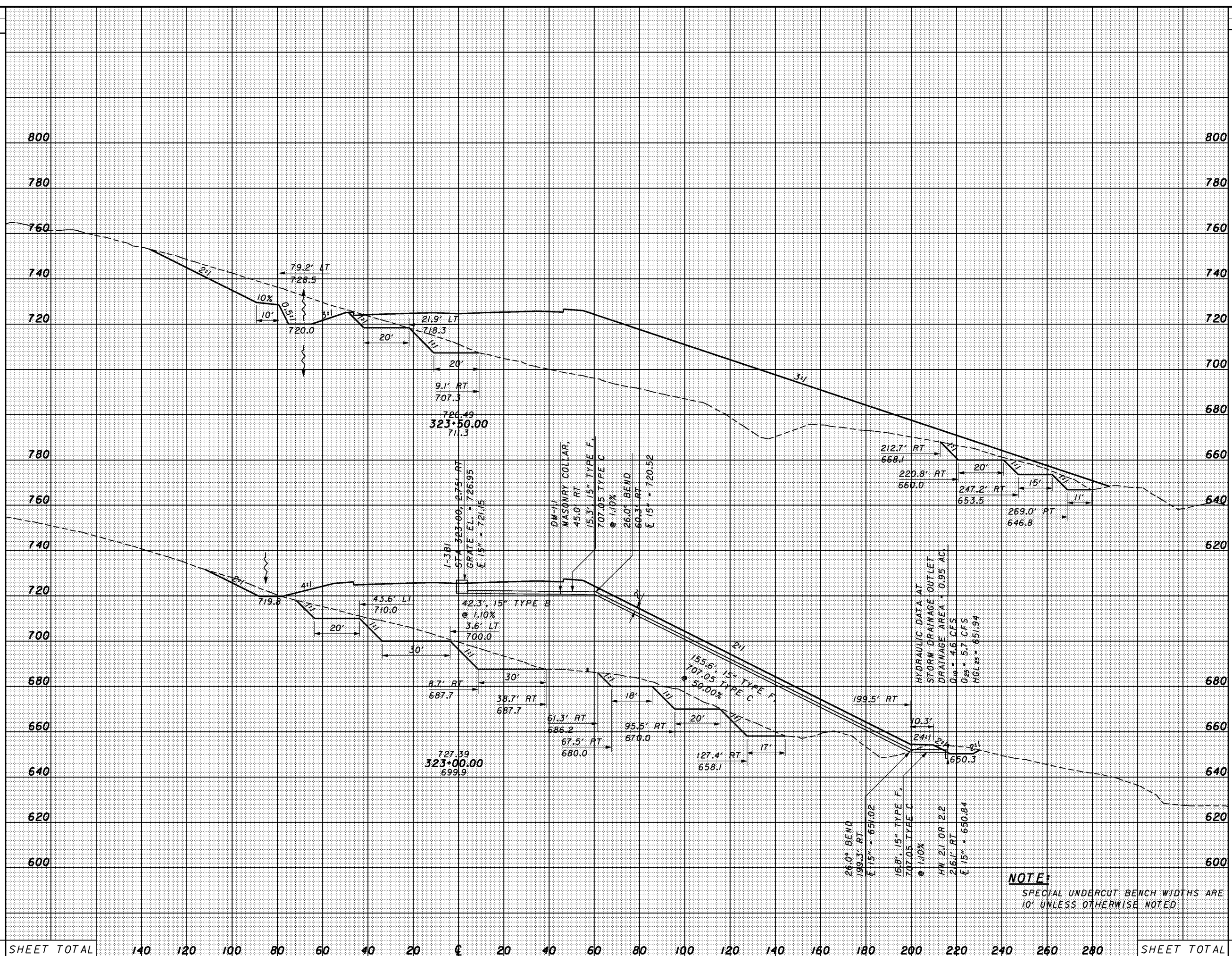
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 323+00.00 TO STA. 323+50.00

SCI-823-0.00

496



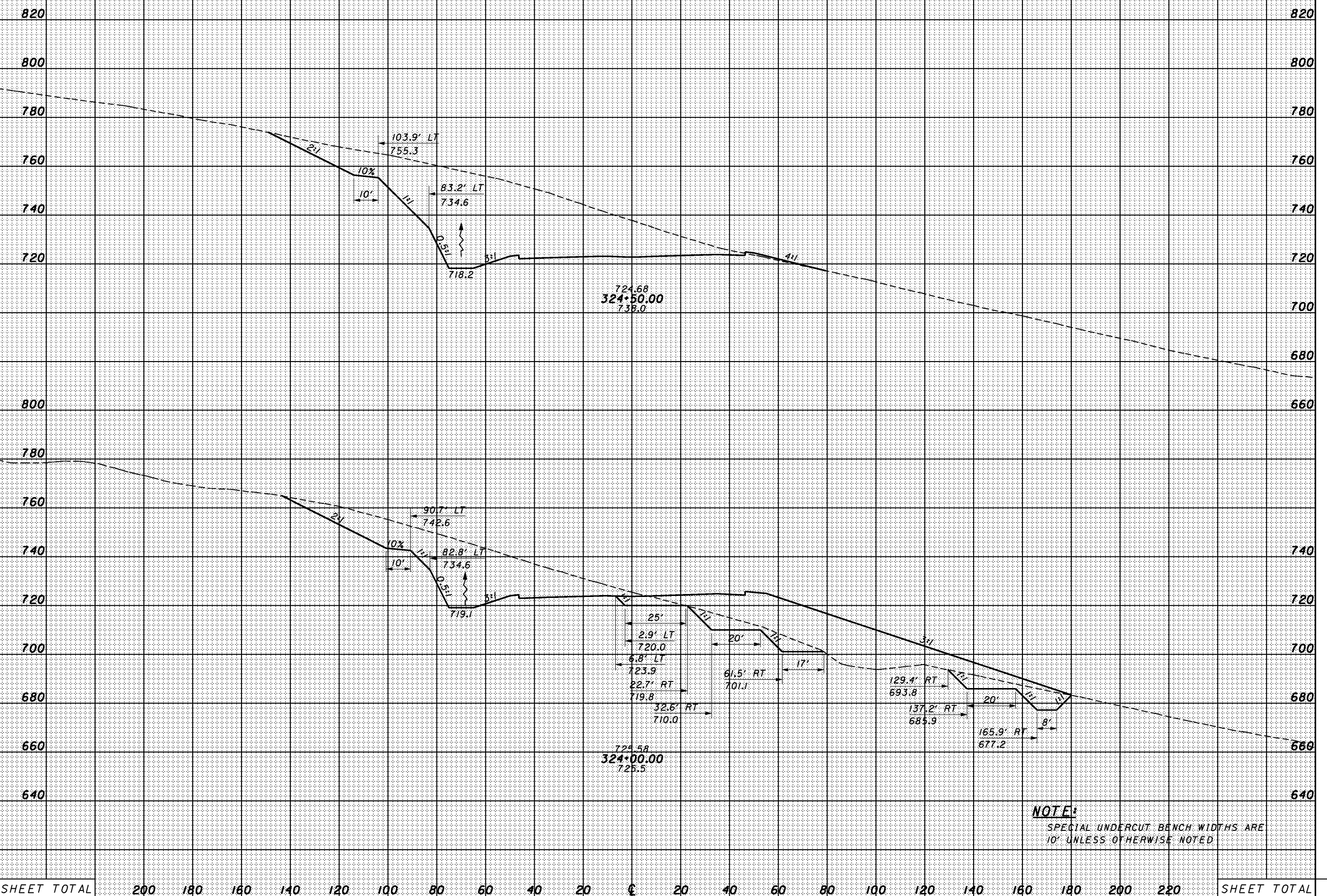
**NOTE:**  
SPECIAL UNDERCUT BENCH WIDTHS ARE 10' UNLESS OTHERWISE NOTED

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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9:00:28 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823\_k.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SR823 - STA. 324+00.00 TO STA. 324+50.00

SCI-823-0.00

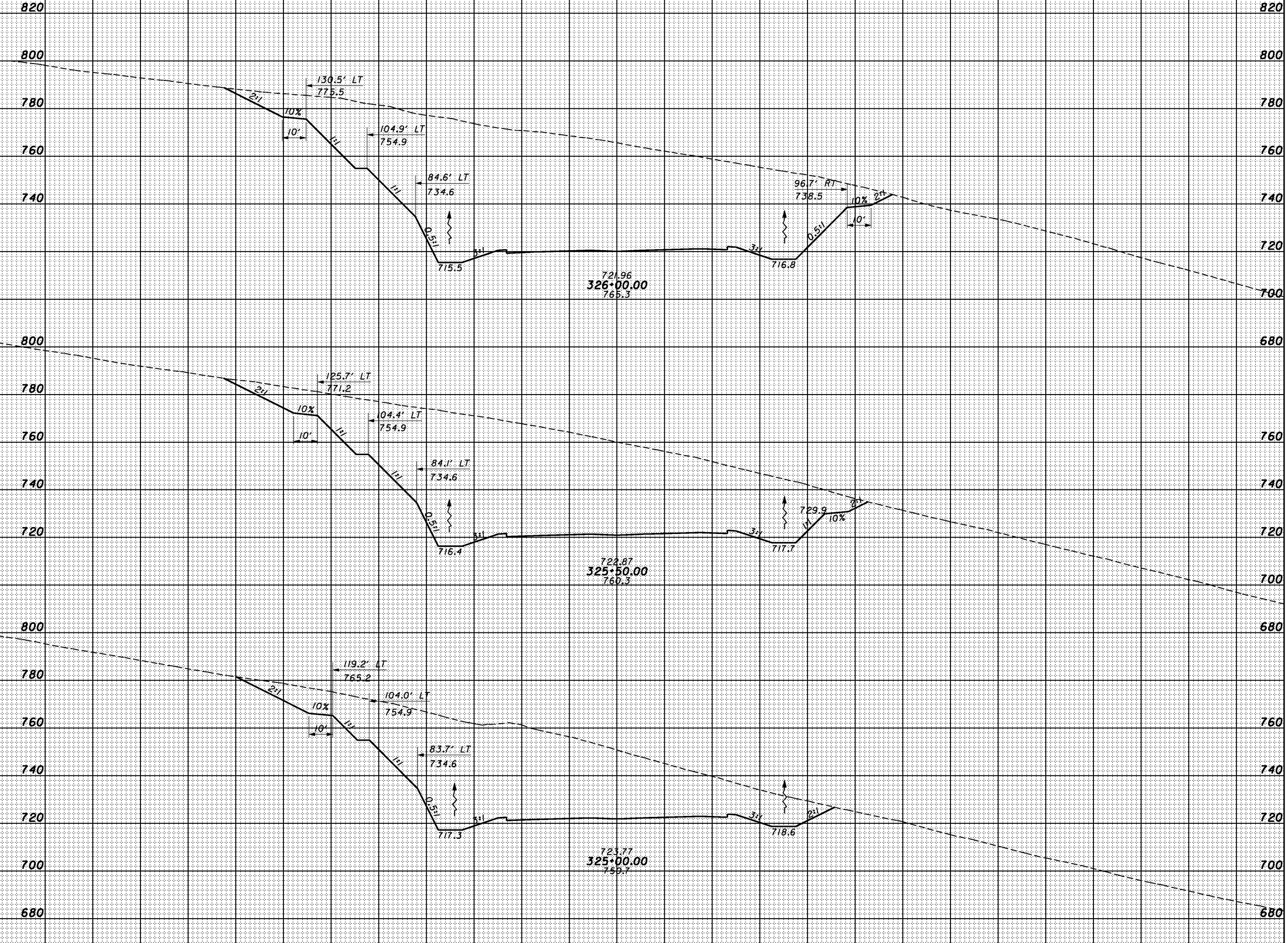
**NOTE!**  
SPECIAL UNDERCUT BENCH WIDTHS ARE 10' UNLESS OTHERWISE NOTED

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

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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  
 SR823 - STA. 325+00.00 TO STA. 326+00.00

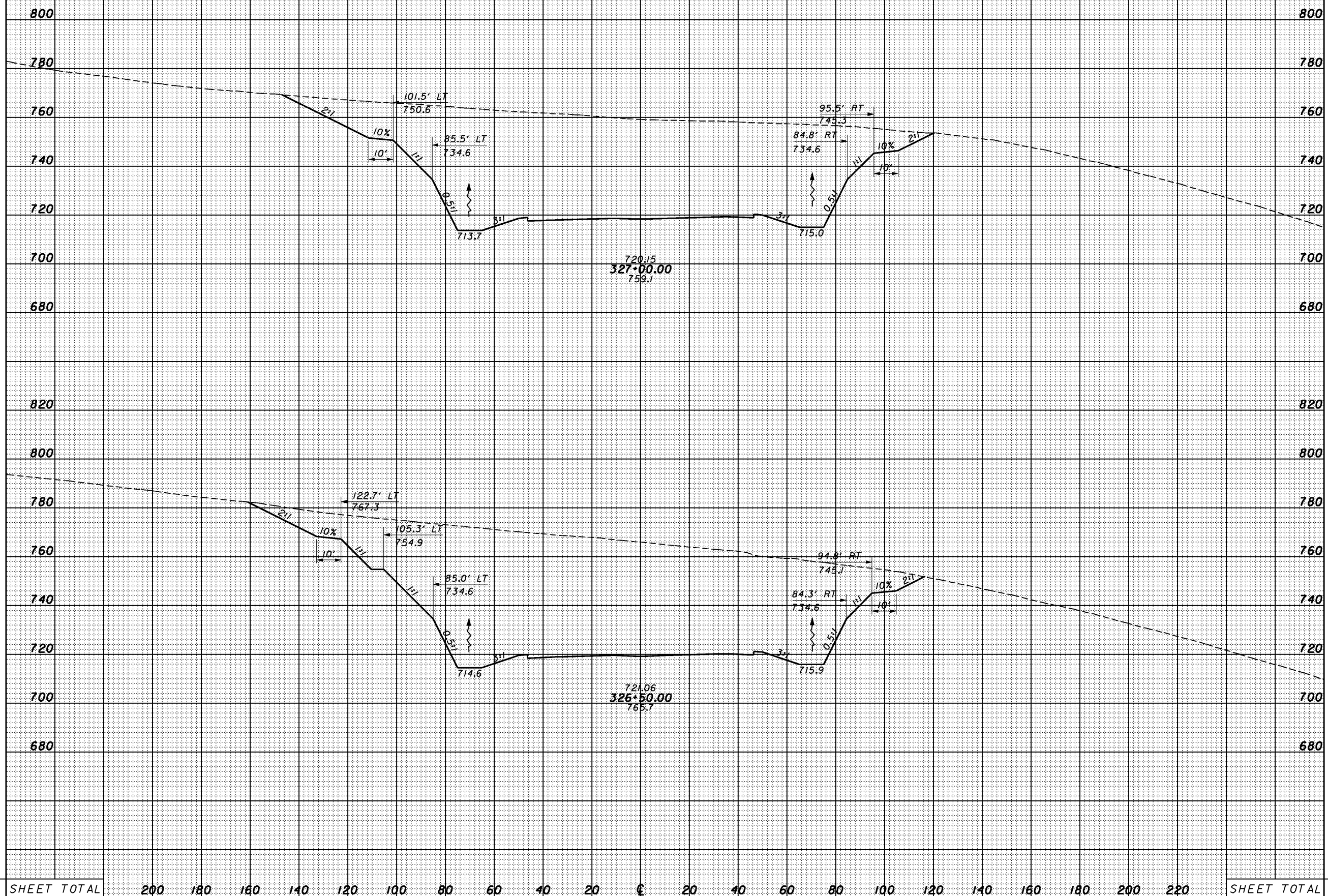
SCI-823-0.00



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SEEDING  
END SO.  
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



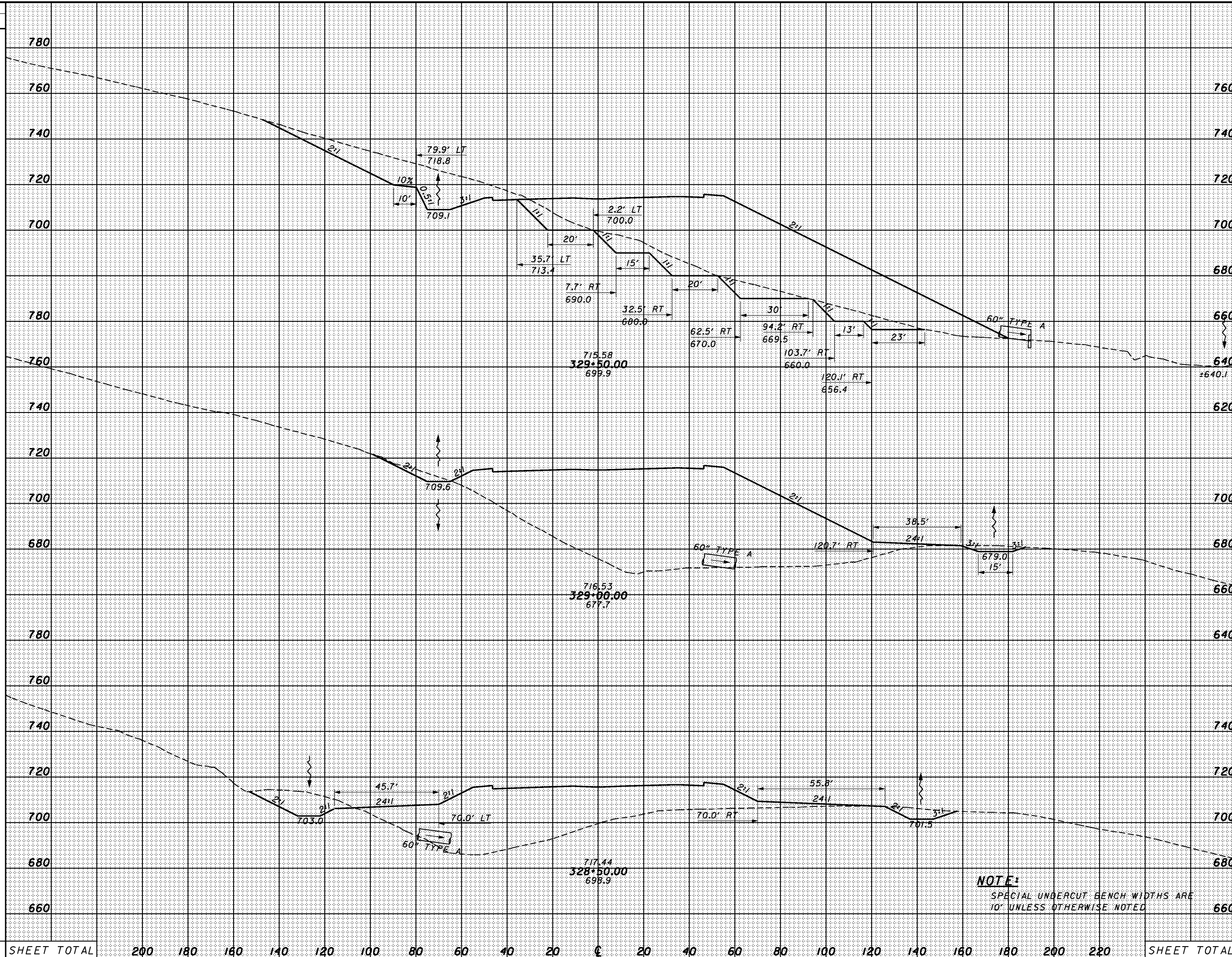
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS  
SR823 - STA. 326+50.00 TO STA. 327+00.00

SCI-823-0.00



SEEDING  
 END WIDTH SO. YDS.  
 9:00:31 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs\_sr-823\_k.dgn



END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		
<b>CROSS SECTIONS</b>					
<b>SR823 - STA. 328+50.00 TO STA. 329+50.00</b>					
<b>SCI-823-0.00</b>					
501					

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

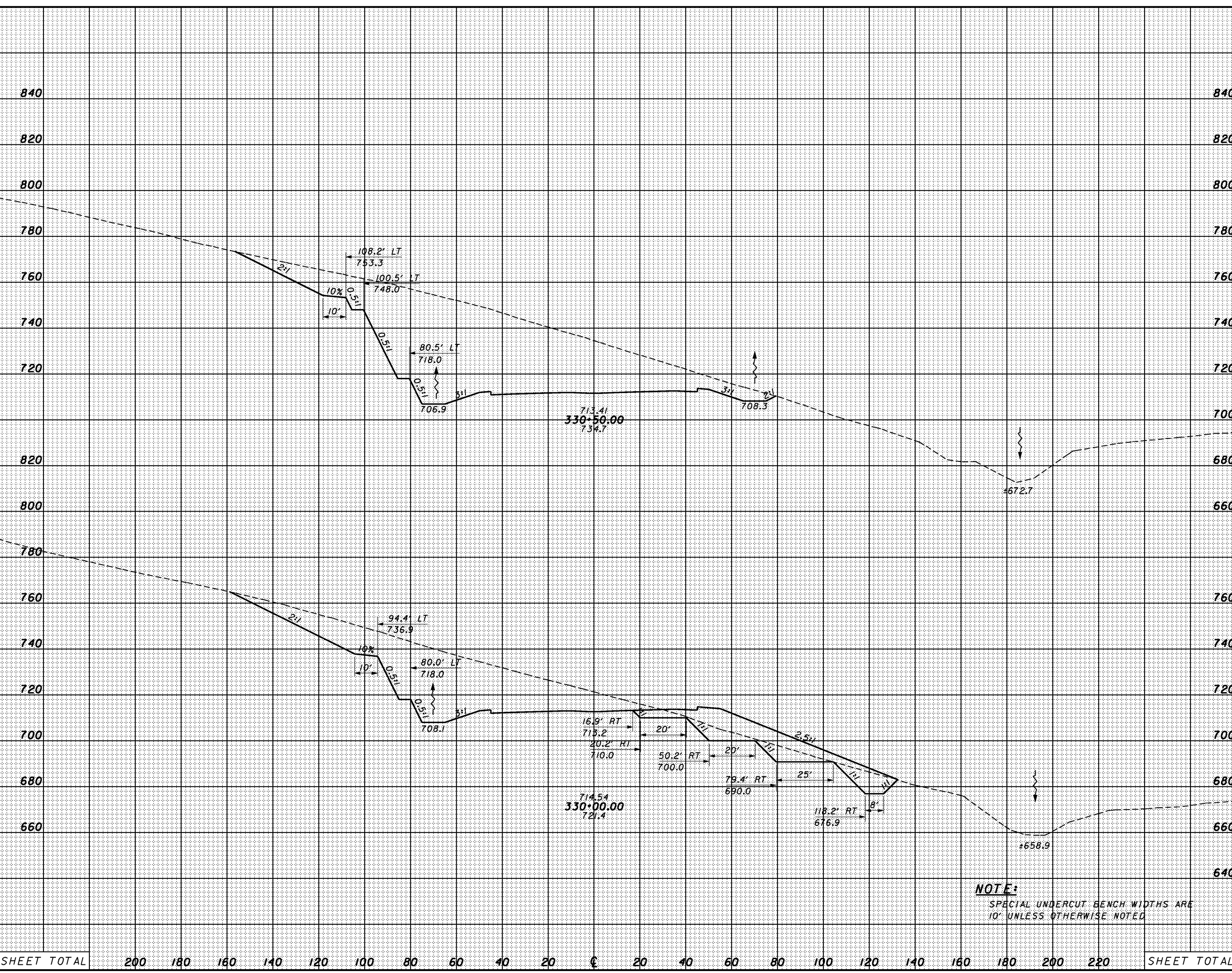
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 € 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL



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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	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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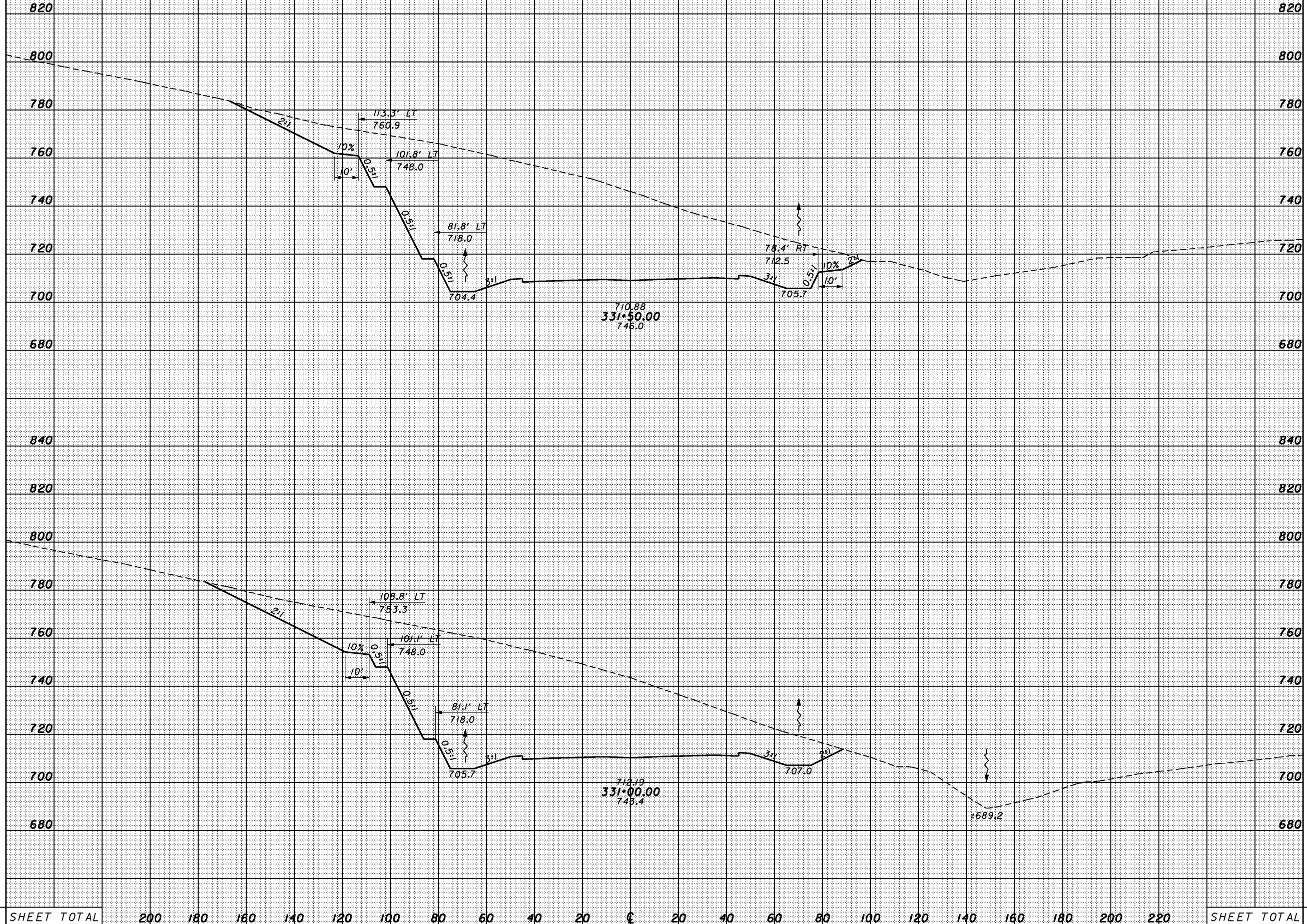
SR823 - STA. 330+00.00 TO STA. 330+50.00

SCI-823-0.00

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SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS  
SR823 - STA. 331+00.00 TO STA. 331+50.00

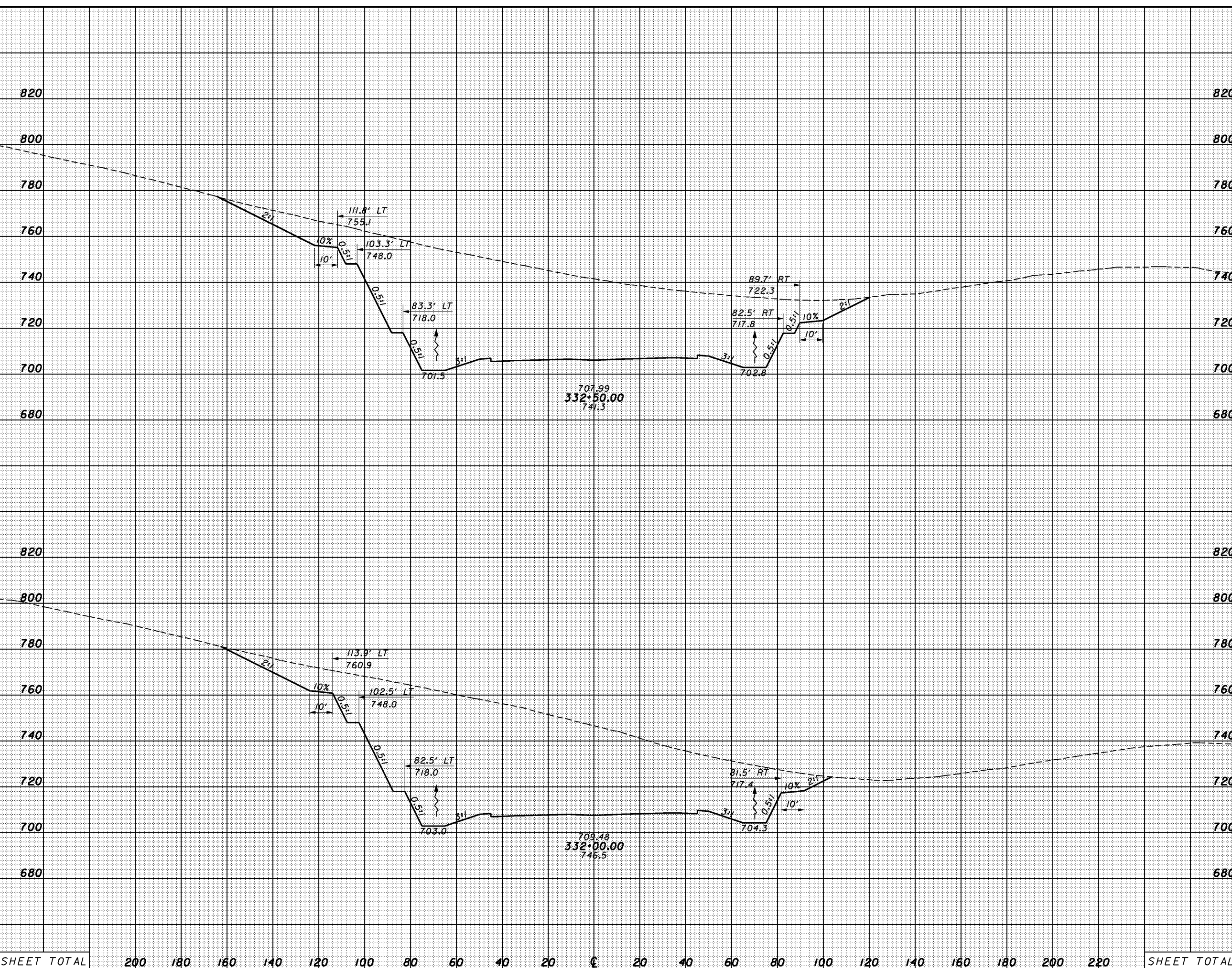
SCI-823-0.00

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		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. 332+00.00 TO STA. 332+50.00

SCI-823-0.00

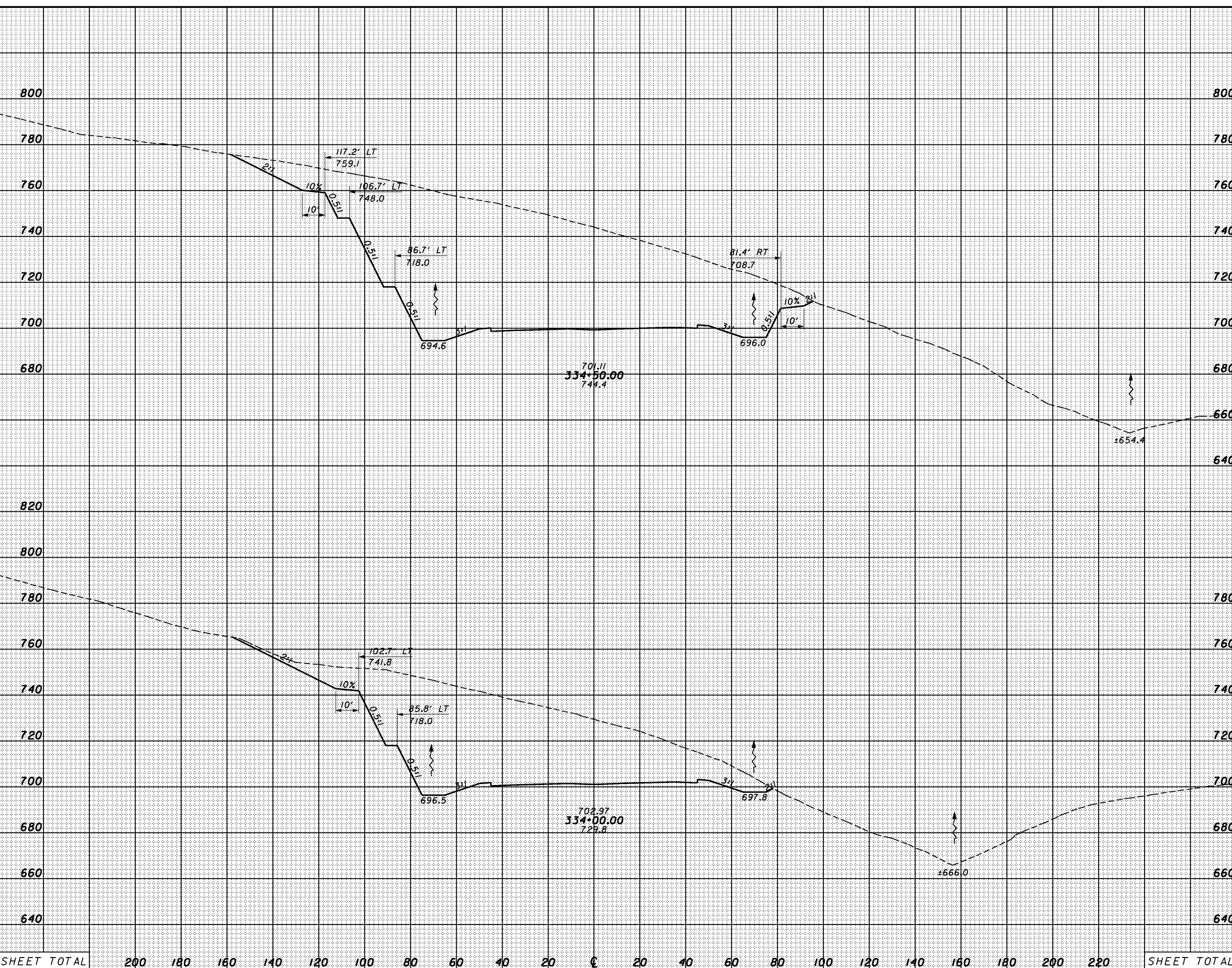




9:00:36 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823-k.dgn

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. 334+00.00 TO STA. 334+50.00

SCI-823-0.00





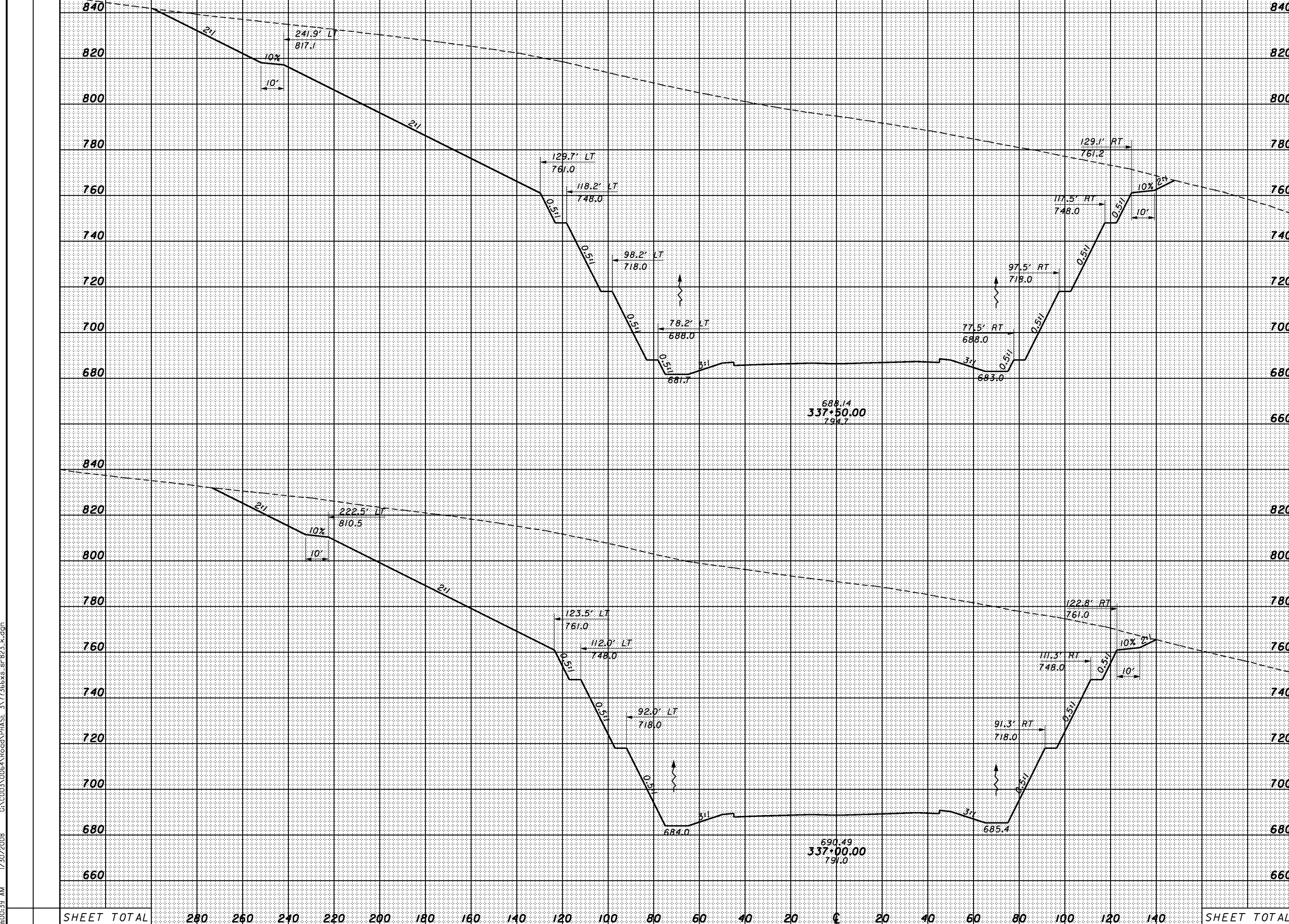


9:00:39 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13666xs\_sr-823\_k.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
 CHECKED



END AREA	VOLUME	CUT	FILL	CUT	FILL
840					
820					
800					
780					
760					
740					
720					
700					
680					
660					
840					
820					
800					
780					
760					
740					
720					
700					
680					
660					
SHEET TOTAL					

CROSS SECTIONS  
 SR823 - STA. 337+00.00 TO STA. 337+50.00

SCI-823-0.00

9:00:40 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs-sr-823-k.dgn

SEEDING	
END WIDTH	SO. YDS.

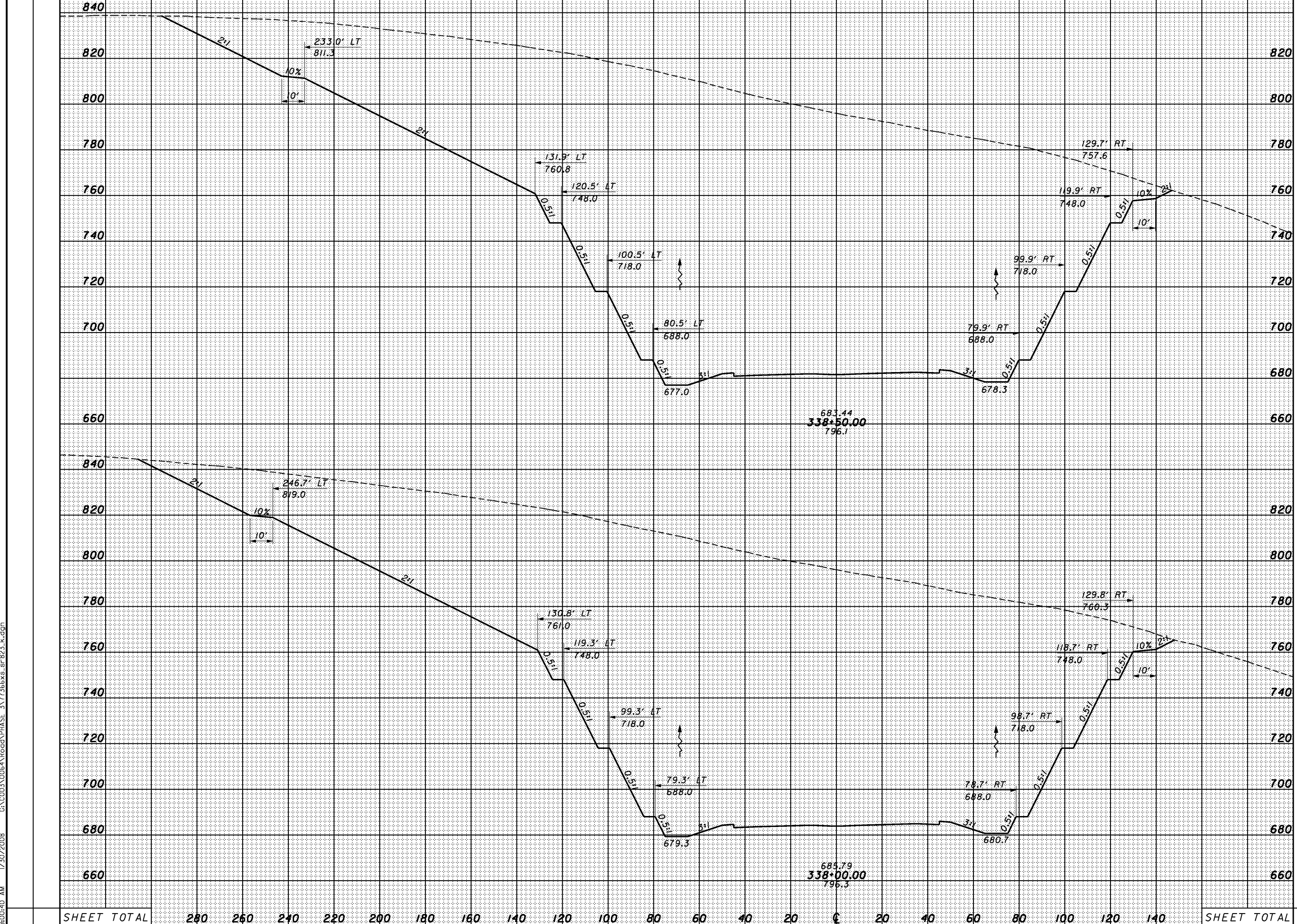
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 338+00.00 TO STA. 338+50.00

SCI-823-0.00

510



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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9:00:41 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13666xs-sr-823\_k.dgn

SEEDING	
END WIDTH	SO. YDS.

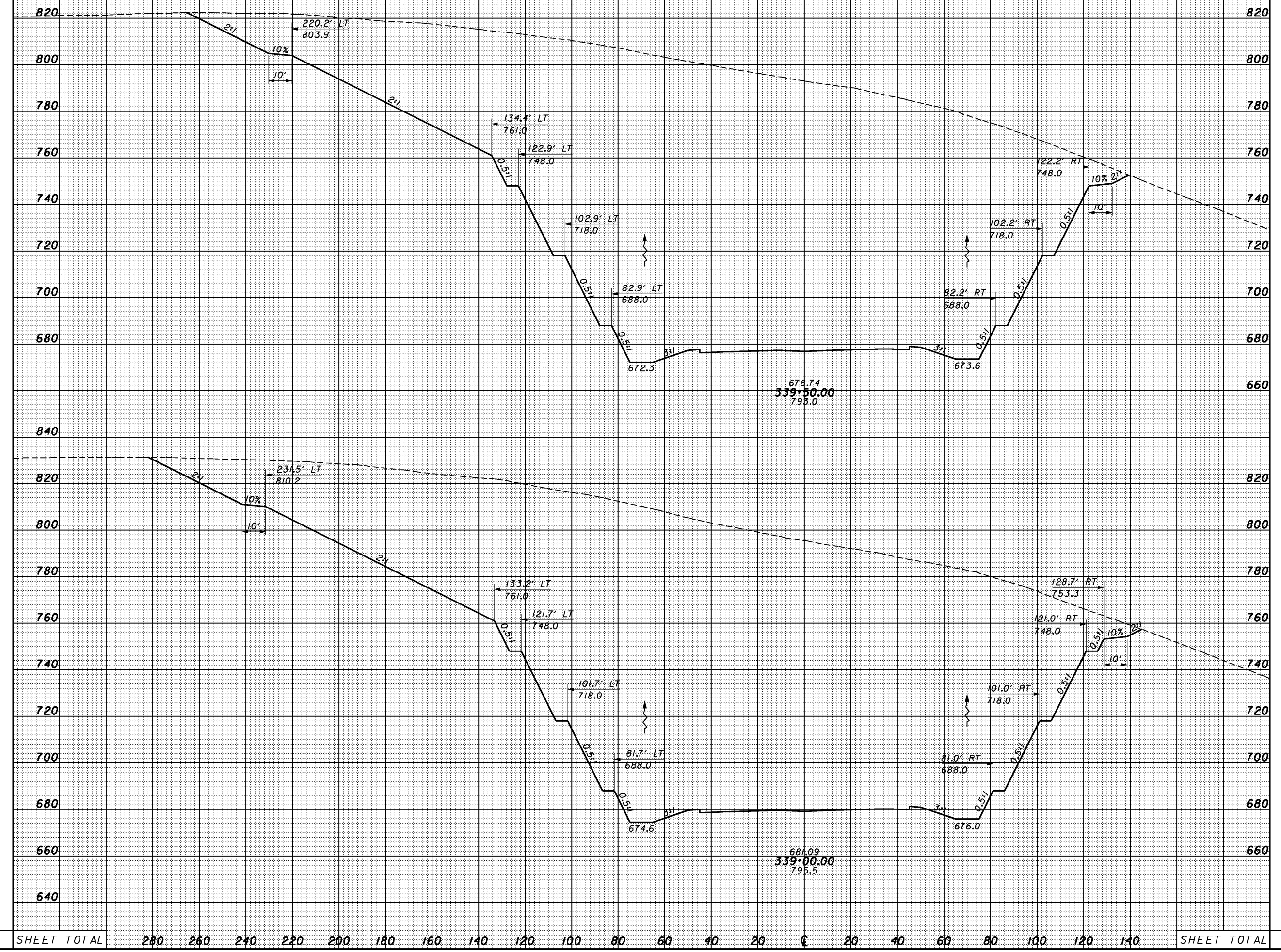
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 339+00.00 TO STA. 339+50.00

SCI-823-0.00

511



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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9:00:42 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_k.dgn

SEEDING	
END WIDTH	SO. YDS.

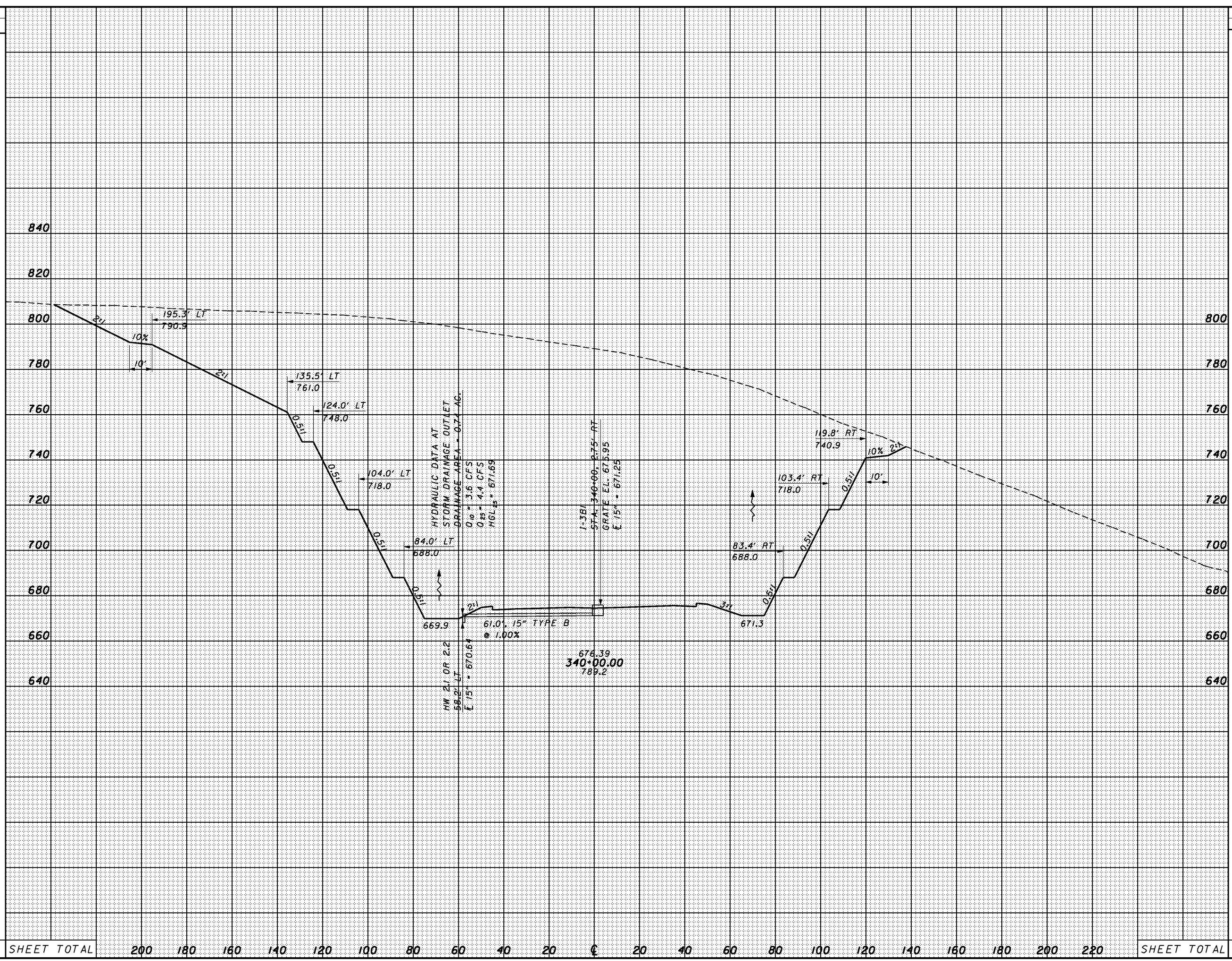
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
SR823 - STA. 340+00.00

SCI-823-0.00

512



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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9:00:43 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823-k.dgn

SEEDING	
END WIDTH	SO. YDS.

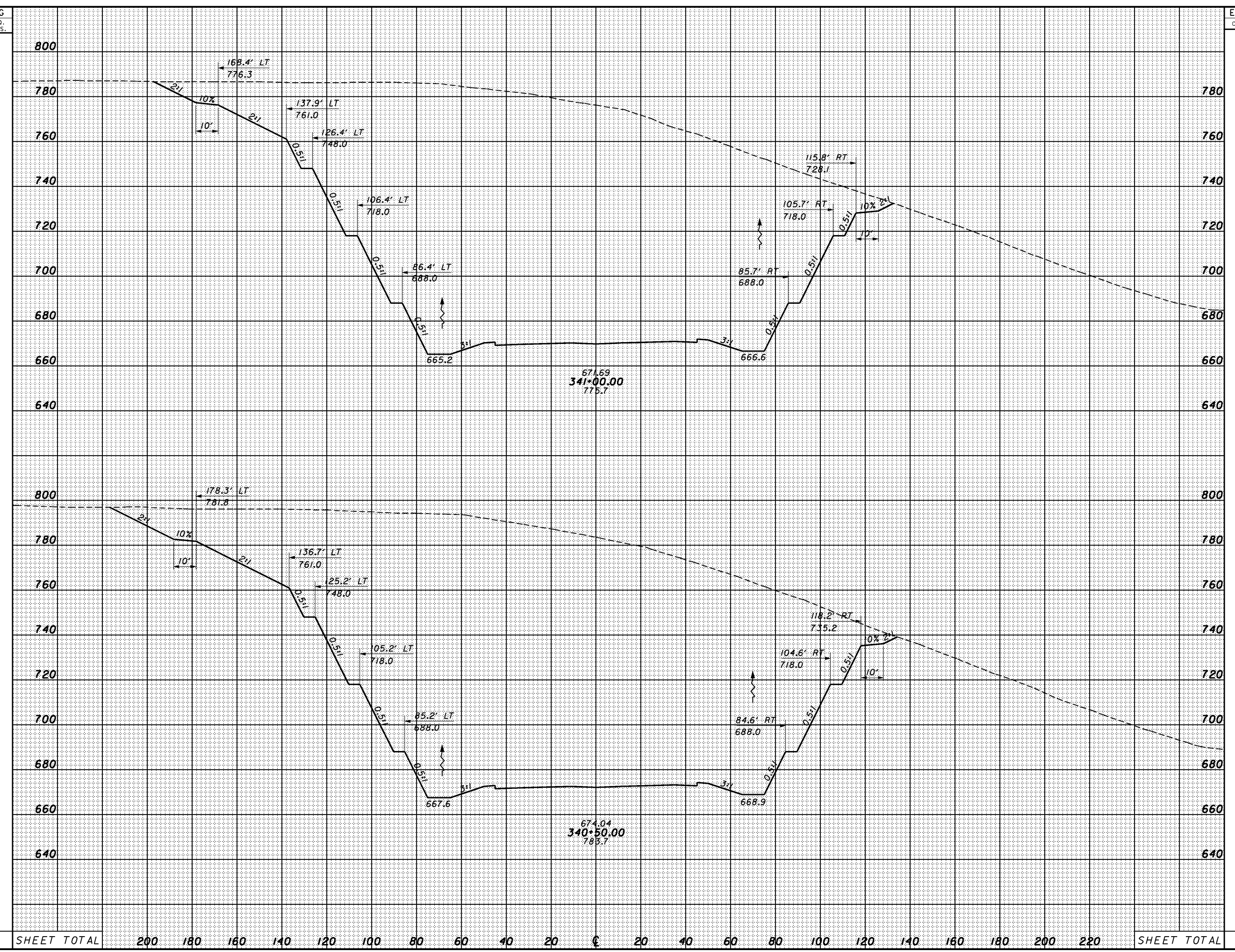
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
 SR823 - STA. 340+50.00 TO STA. 341+00.00

SCI-823-0.00

513



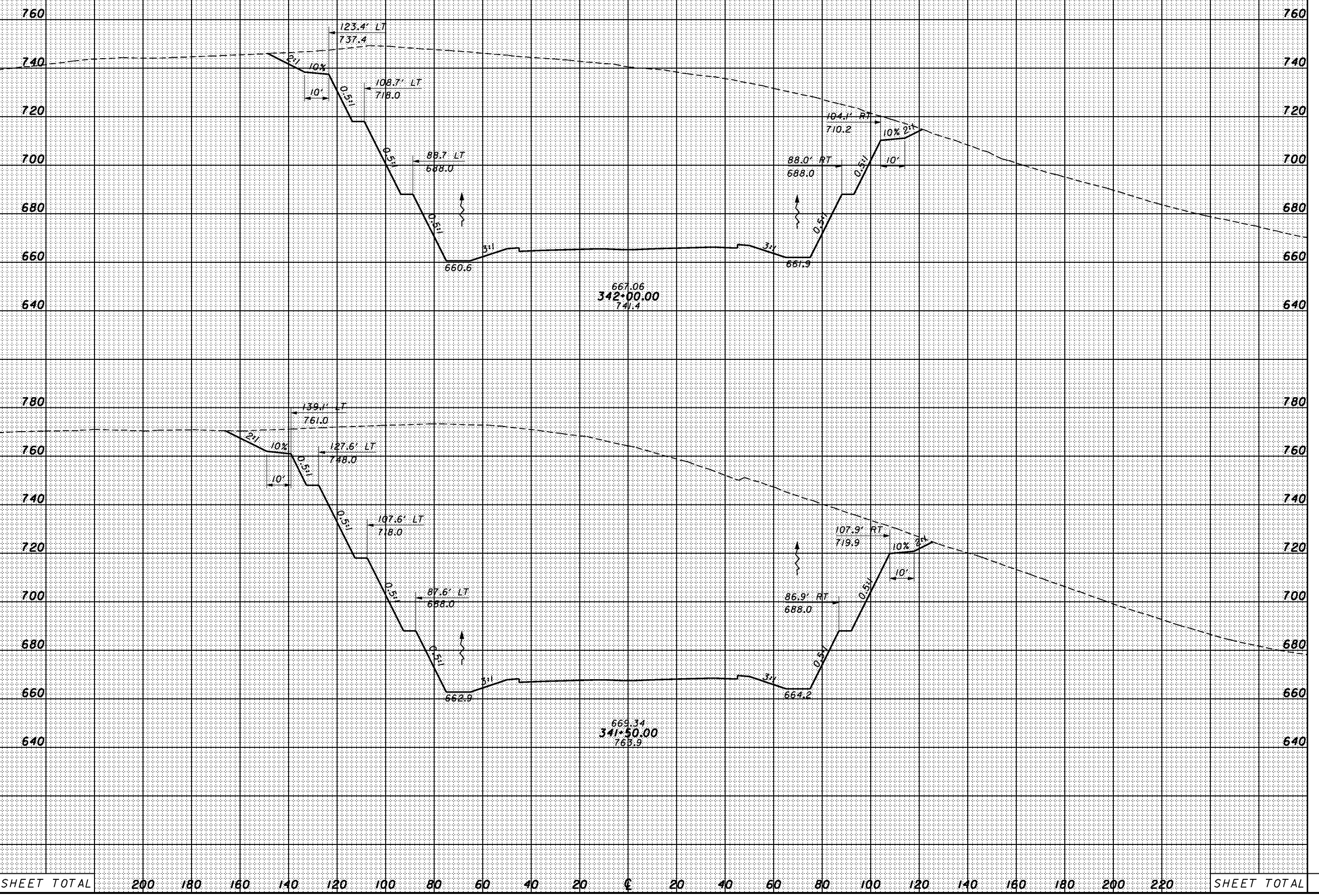
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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9:00:44 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_k.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS  
SR823 -STA. 341+50.00 TO STA. 342+00.00

SCI-823-0.00

9:00:45 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823\_k.dgn

SEEDING	
END WIDTH	SO. YDS.

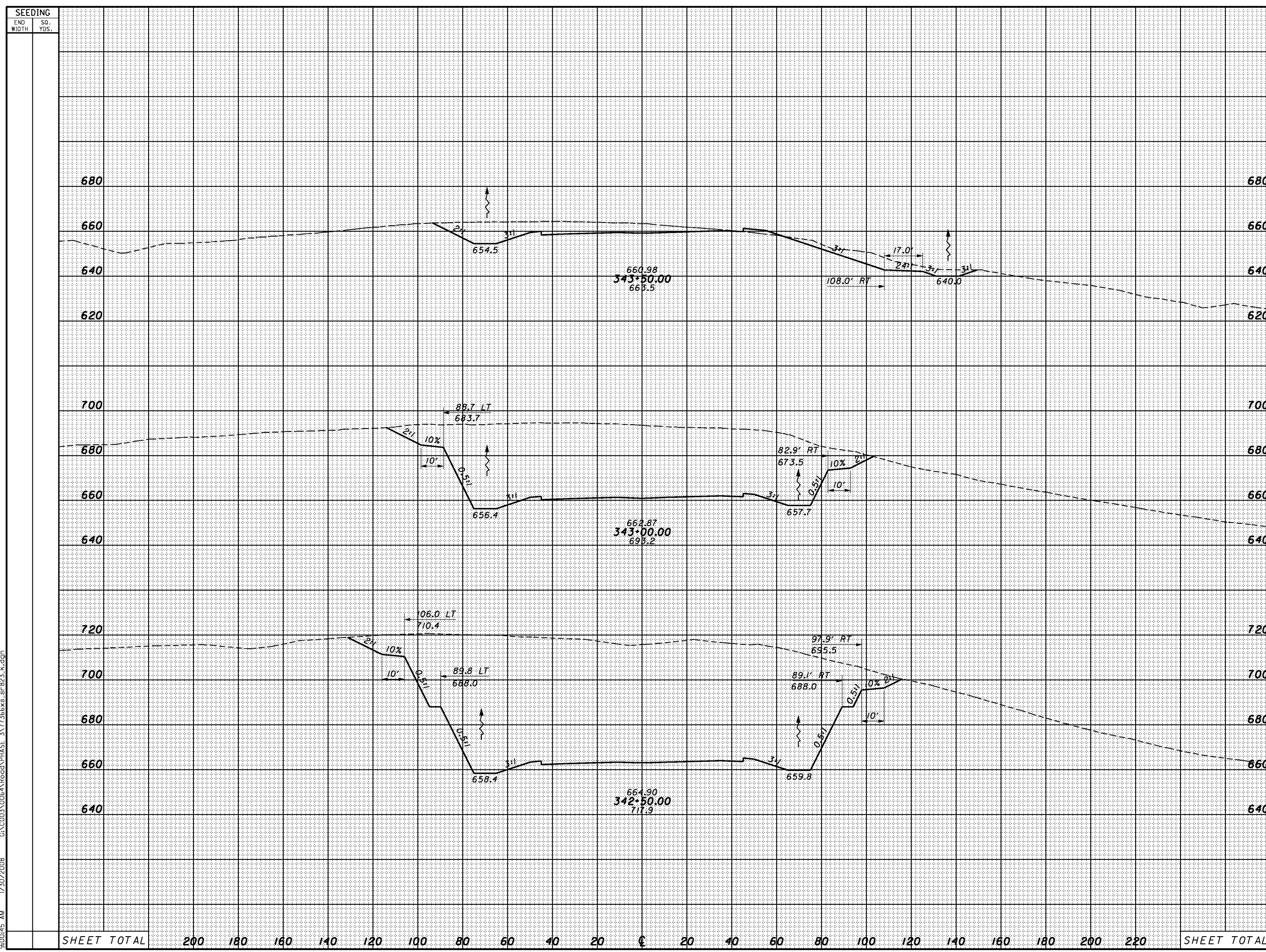
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
 CHECKED

CROSS SECTIONS  
 SR823 - STA. 342+50.00 TO STA. 343+50.00

SCI-823-0.00

515



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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9:00:46 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823-k.dgn

SEEDING	
END WIDTH	SO. YDS.

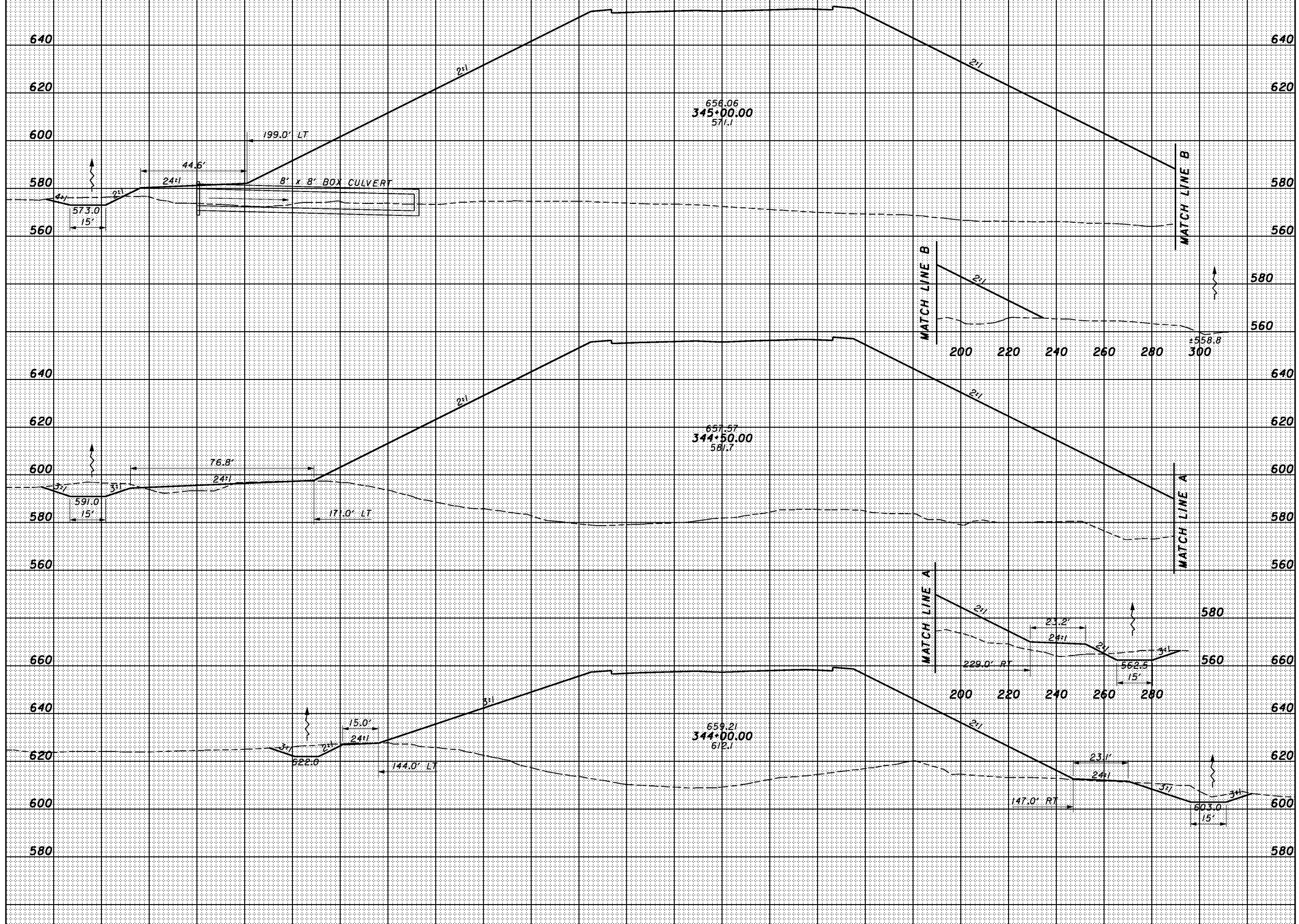
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 344+00.00 TO STA. 345+00.00

SCI-823-0.00

516



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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9:00:47 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823\_k.dgn

SEEDING	
END WIDTH	SO. YDS.

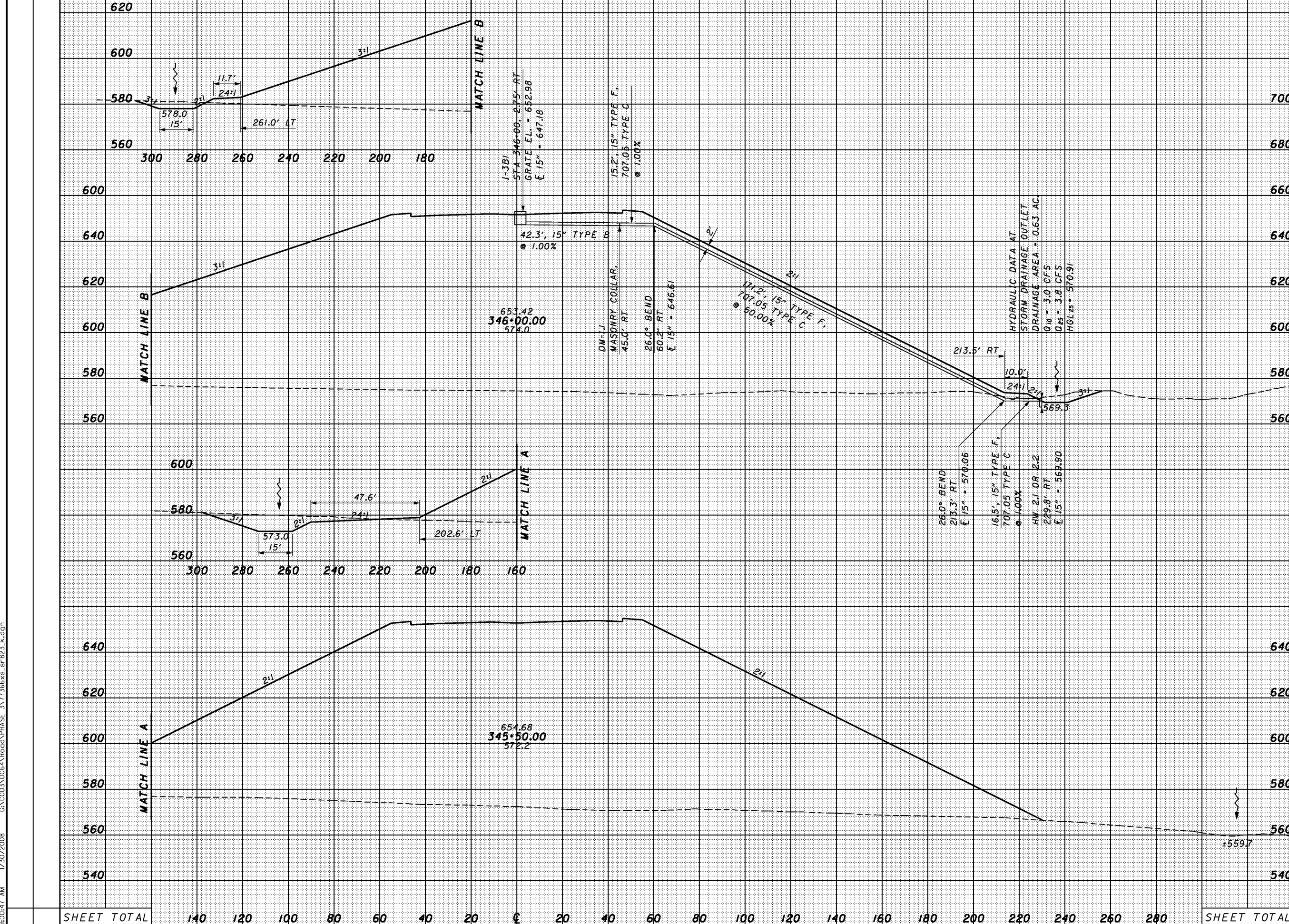
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 345+50.00 TO STA. 346+00.00

SCI-823-0.00

517



700			
680			
660			
640			
620			
600			
580			
560			
640			
620			
600			
580			
560			
540			

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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9:00:48 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13666xs-sr-823\_k.dgn

SEEDING	
END WIDTH	SO. YDS.

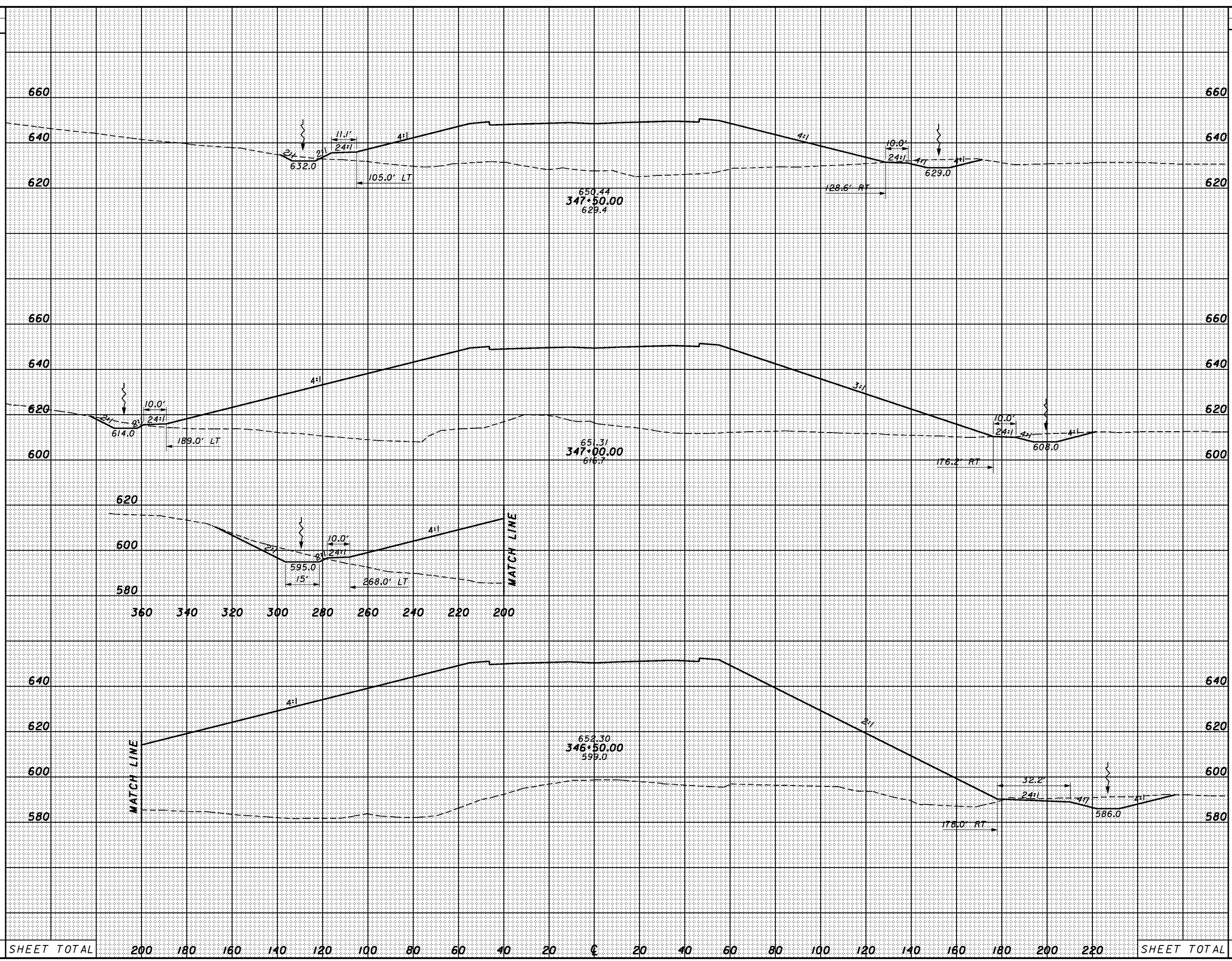
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 346+50.00 TO STA. 347+50.00

SCI-823-0.00

518



SHEET TOTAL

SHEET TOTAL

9:00:49 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366xs-sr-823\_k.dgn

SEEDING	
END WIDTH	SO. YDS.

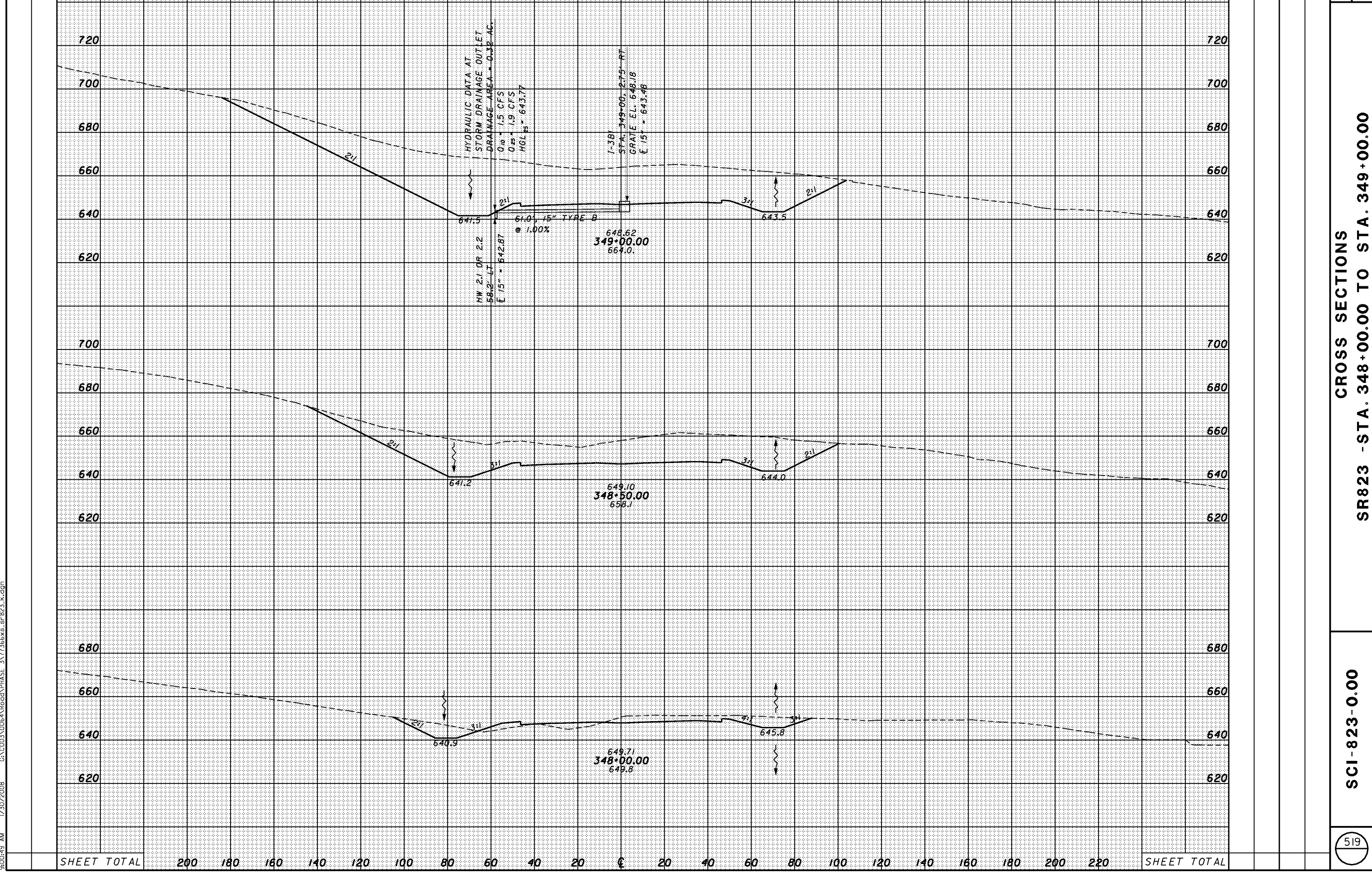
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
SR823 - STA. 348+00.00 TO STA. 349+00.00

SCI-823-0.00

519



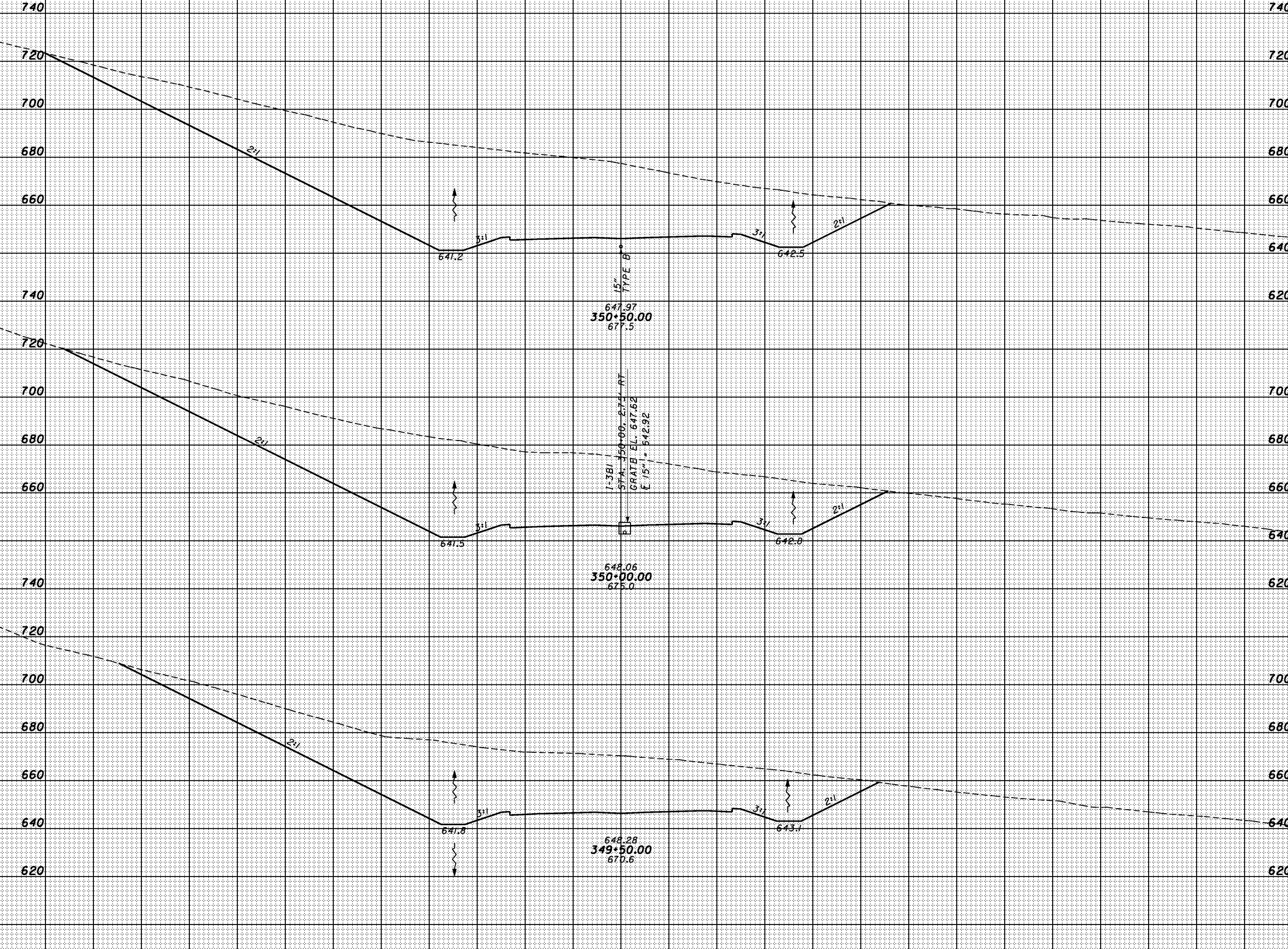
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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9:00:50 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-sr-823-k.dgn

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

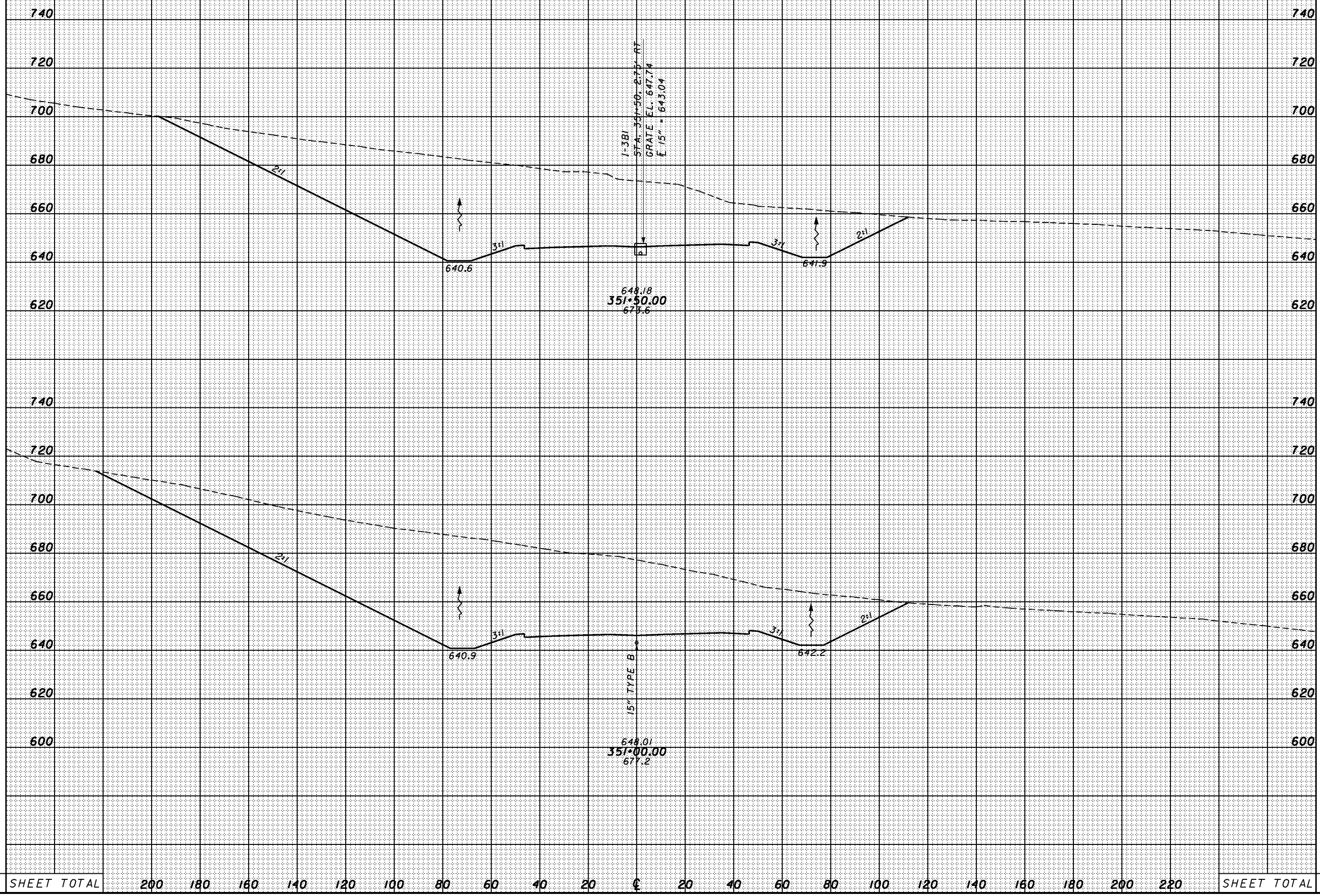
CROSS SECTIONS  
SR823 - STA. 349+50.00 TO STA. 350+50.00

SCI-823-0.00

9:00:51 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s-sr-823-k.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS  
SR823 - STA. 351+00.00 TO STA. 351+50.00

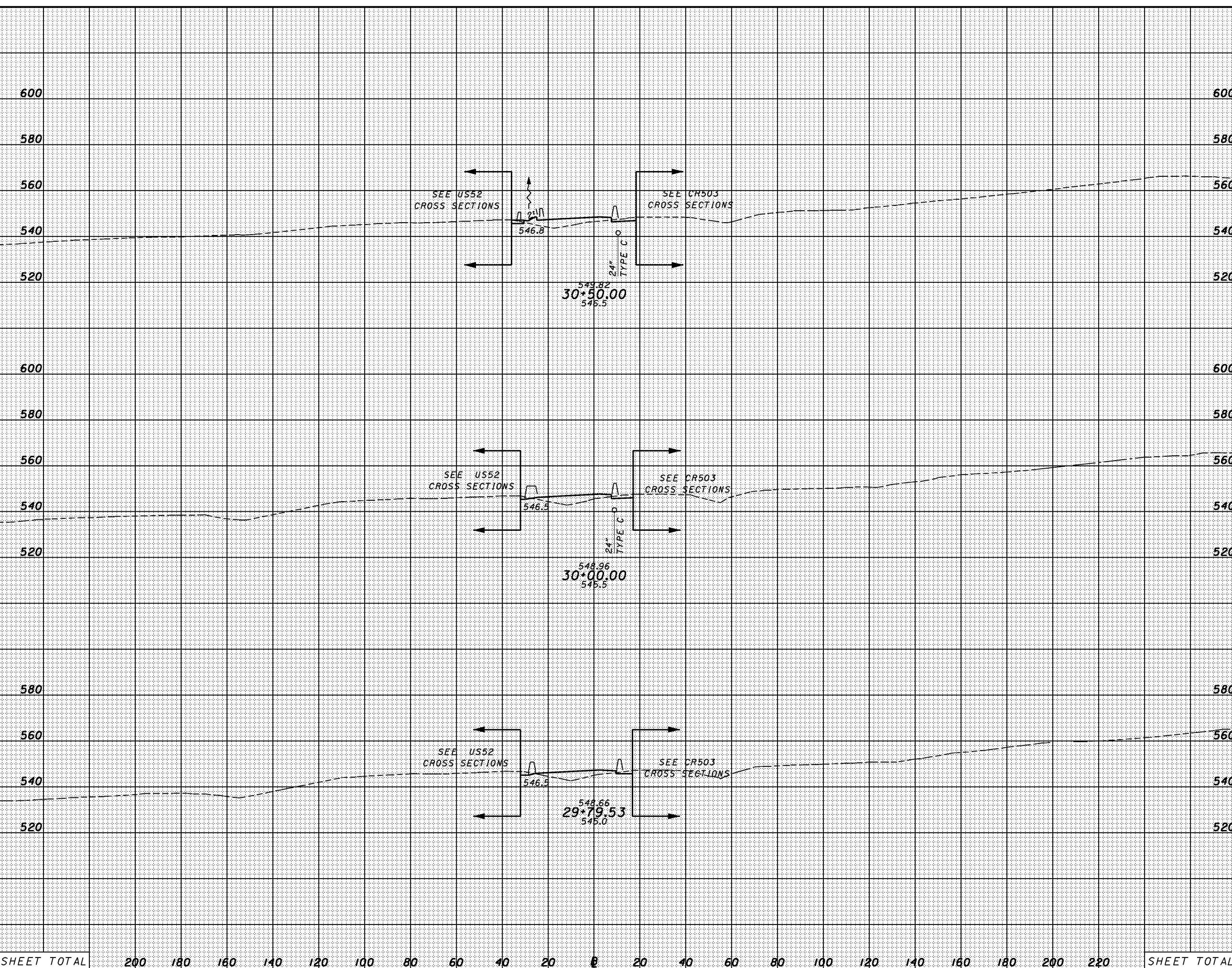
SCI-823-0.00

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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3:46:48 PM 1/30/2008 g:\C003\0064\Road\PHASE\_3\T13666xs\_US52RAMPA.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  
US52 RAMP A - STA. 29+79.53 TO STA. 30+50.00

SCI-823-0.00



3:46:50 PM 1/30/2008 g:\C003\0064\Road\PHASE\_3\T1366xs\_US52RAMP.A.dgn

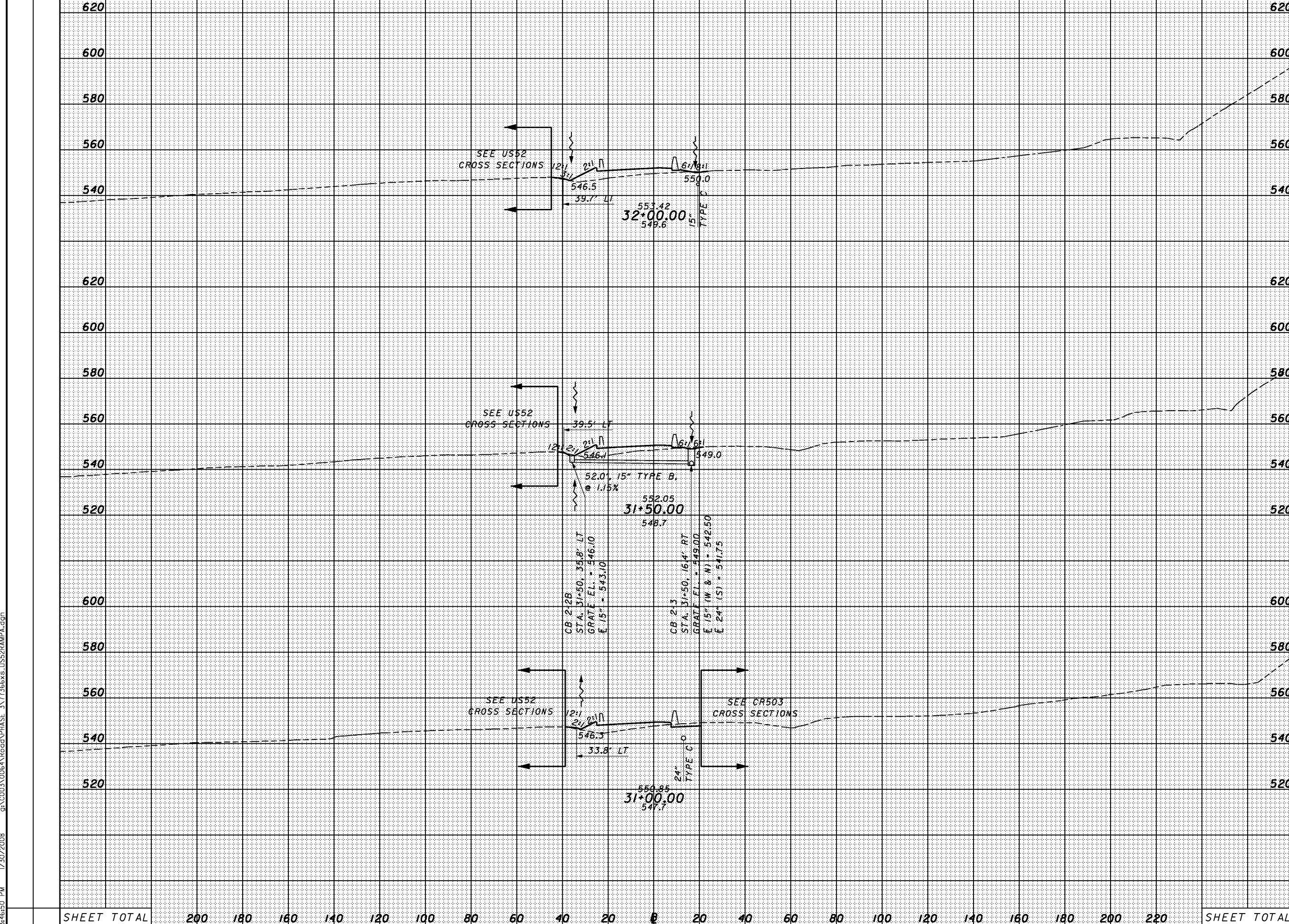
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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US52 RAMP A - STA. 31+00.00 TO STA. 32+00.00

SCI-823-0.00



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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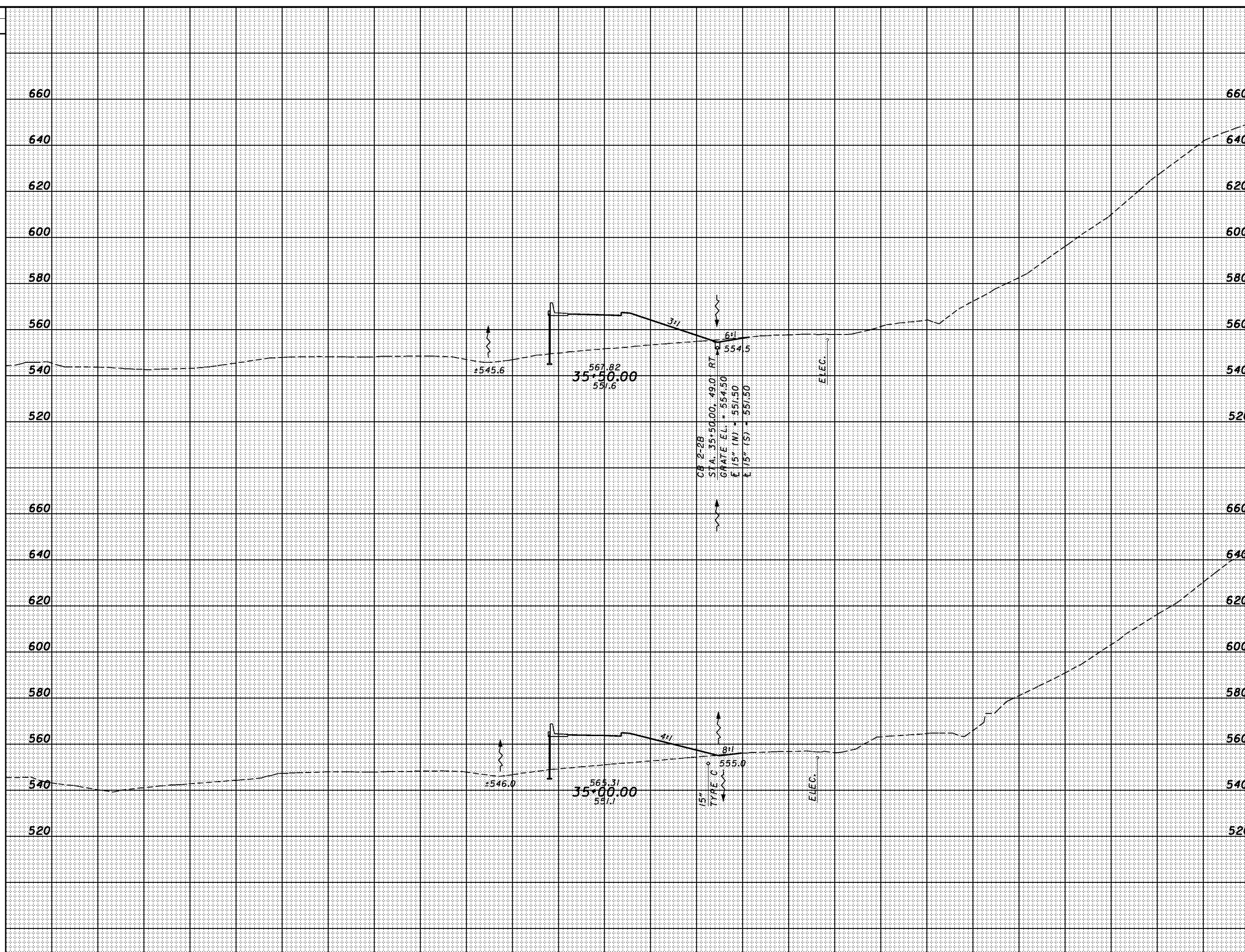




3:46:53 PM 1/30/2008 g:\C003\0064\Road\PHASE\_3\171366x\US52RAMP.A.dgn

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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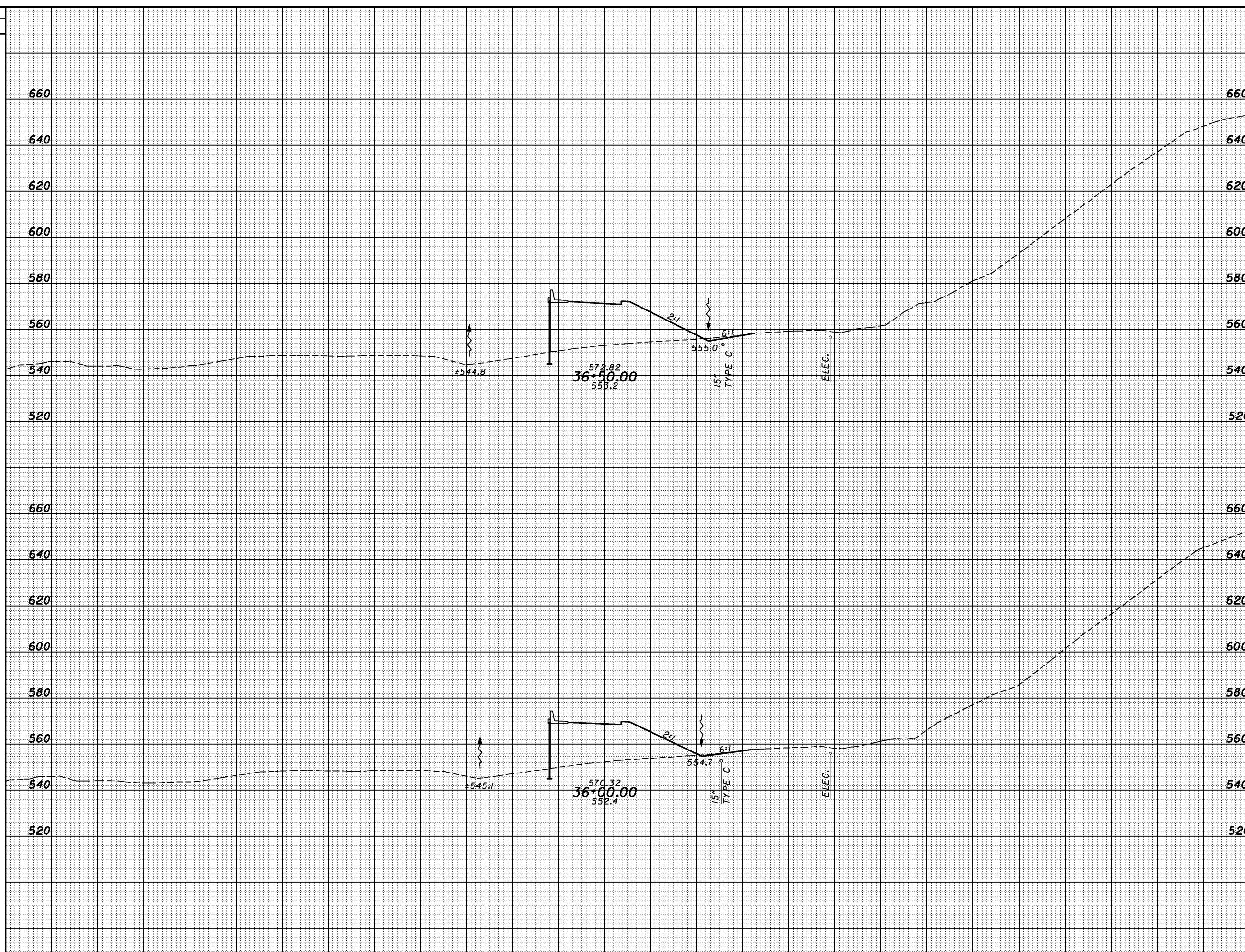
CROSS SECTIONS  
US52 RAMP A - STA. 35+00.00 TO STA. 35+50.00

SCI-823-0.00

3:46:54 PM 1/30/2008 g:\C003\0064\Road\PHASE\_3\T1366xs\_LJ52RAMP.A.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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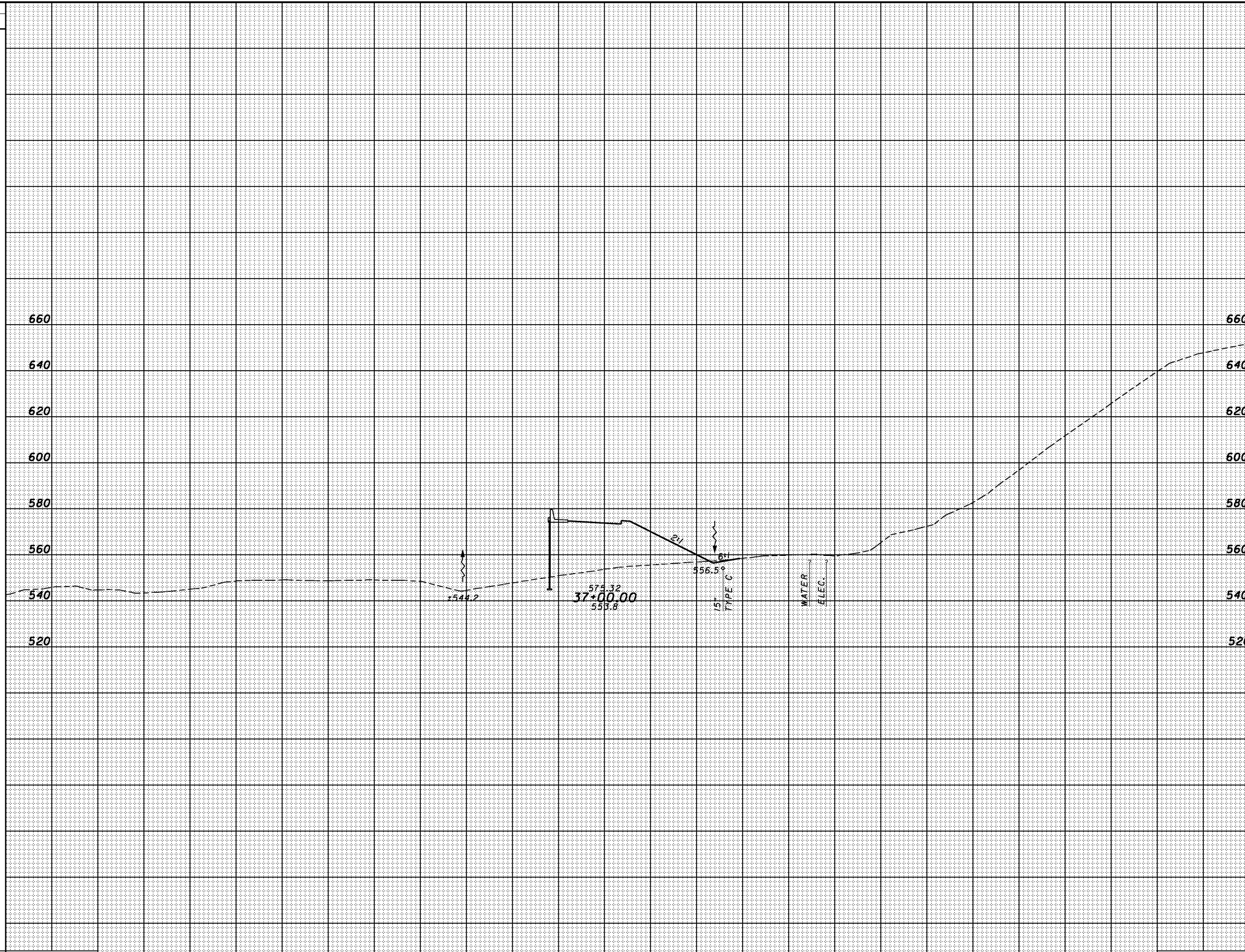
CROSS SECTIONS  
US52 RAMP A - STA. 36+00.00 TO STA. 36+50.00

SCI-823-0.00

3:46:55 PM 1/30/2008 g:\C003\0064\Road\PHASE 3\171366\US52RAMP.A.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  
US52 RAMP A - STA. 37+00.00

SCI-823-0.00



3:46:56 PM 1/30/2008 g:\C003\0064\Road\PHASE\_3\T13666xs\_US52RAMP.A.dgn

SEEDING	
END WIDTH	SO. YDS.

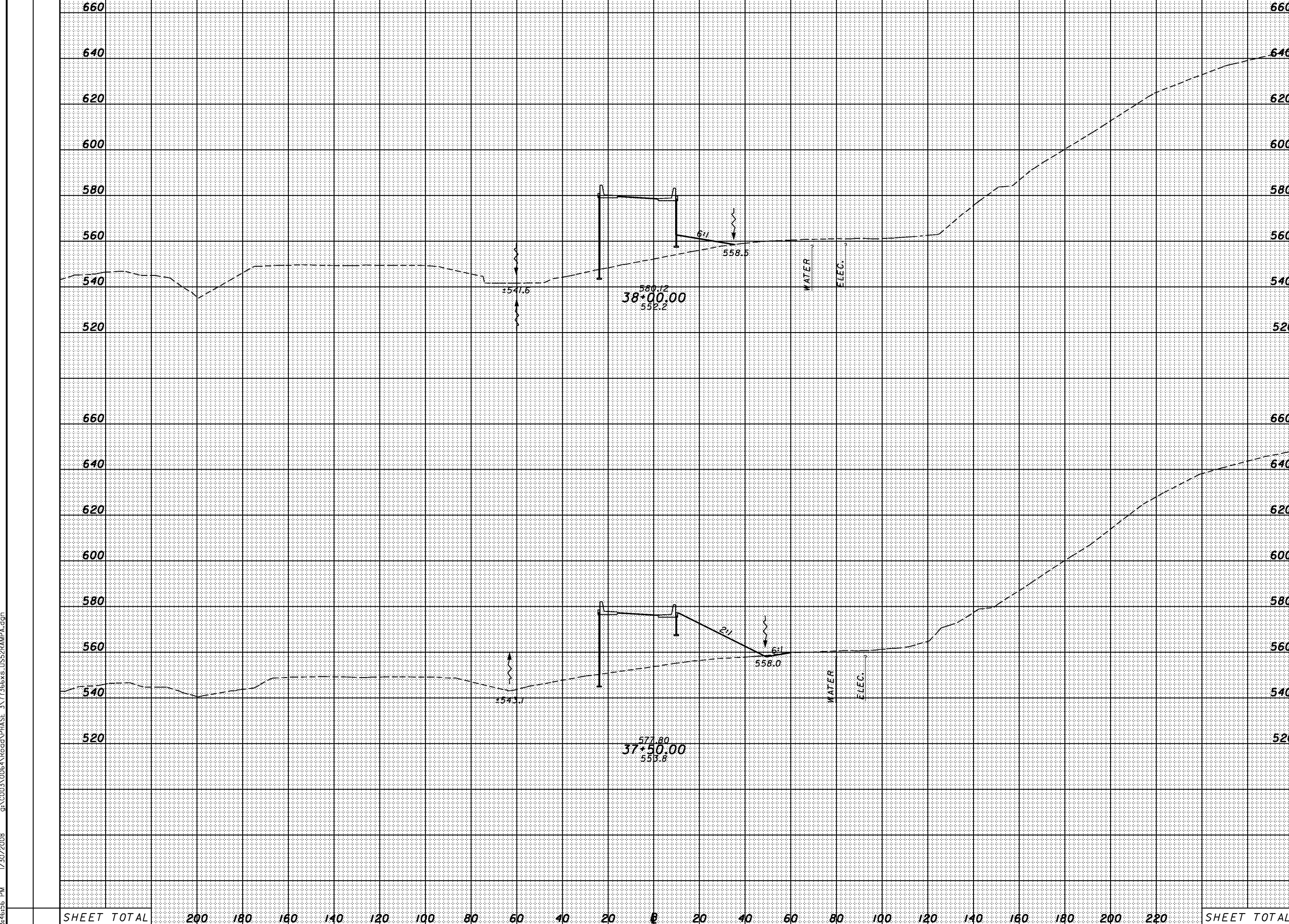
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
US52 RAMP A - STA. 37+50.00 TO STA.38+00.00

SCI-823-0.00

529

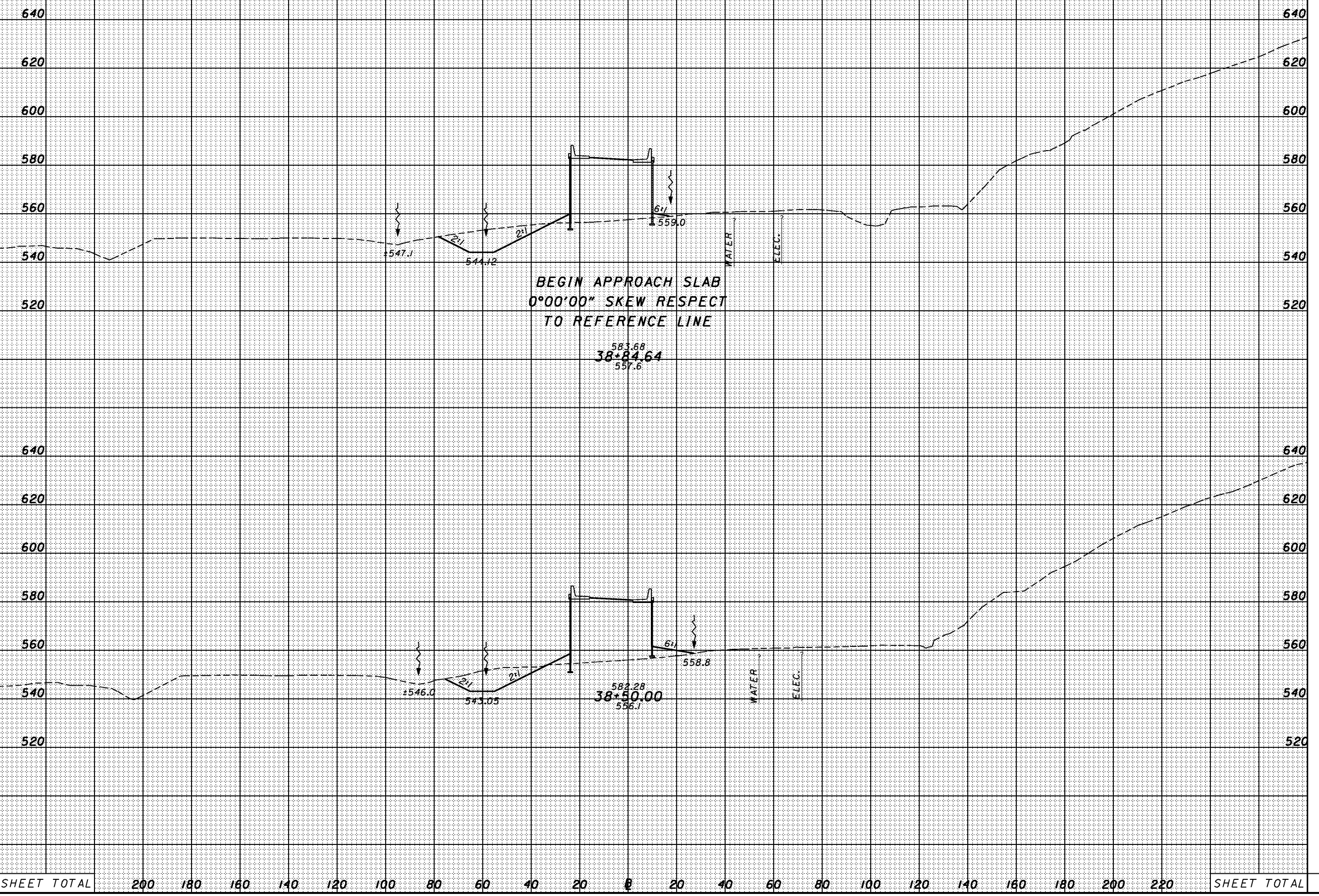


SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

3:46:57 PM 1/30/2008 g:\C003\0064\Road\PHASE\_3\T1366\US52RAMP.A.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



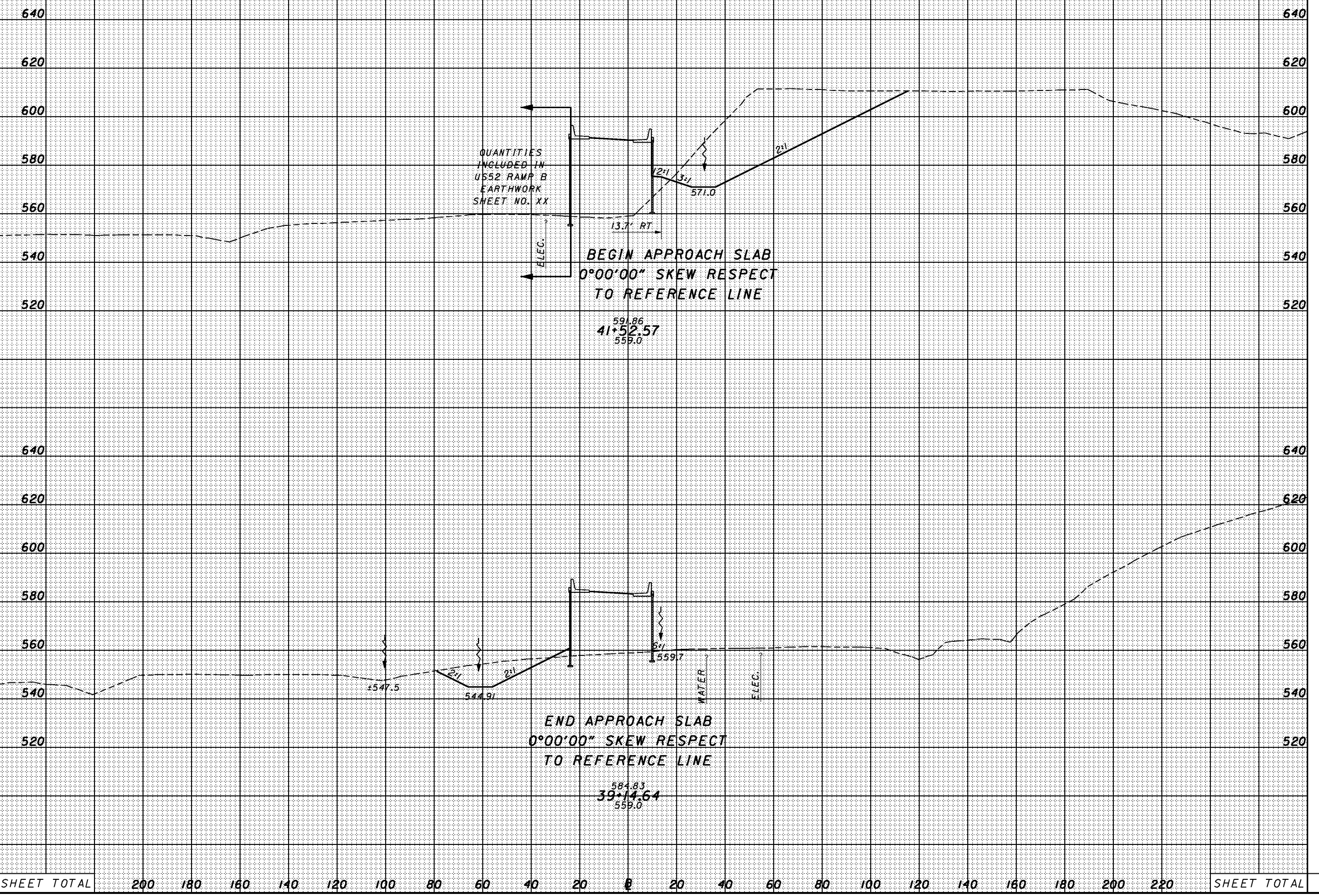
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

SCI-823-0.00  
 CROSS SECTIONS  
 US52 RAMP A - STA. 38+50.00 TO STA. 38+84.54  
 530

3:46:58 PM 1/30/2008 g:\C003\0064\Road\PHASE 3\T1366\US52RAMP.A.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
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CROSS SECTIONS  
US52 RAMP A - STA. 39+14.84 TO STA. 41+52.57

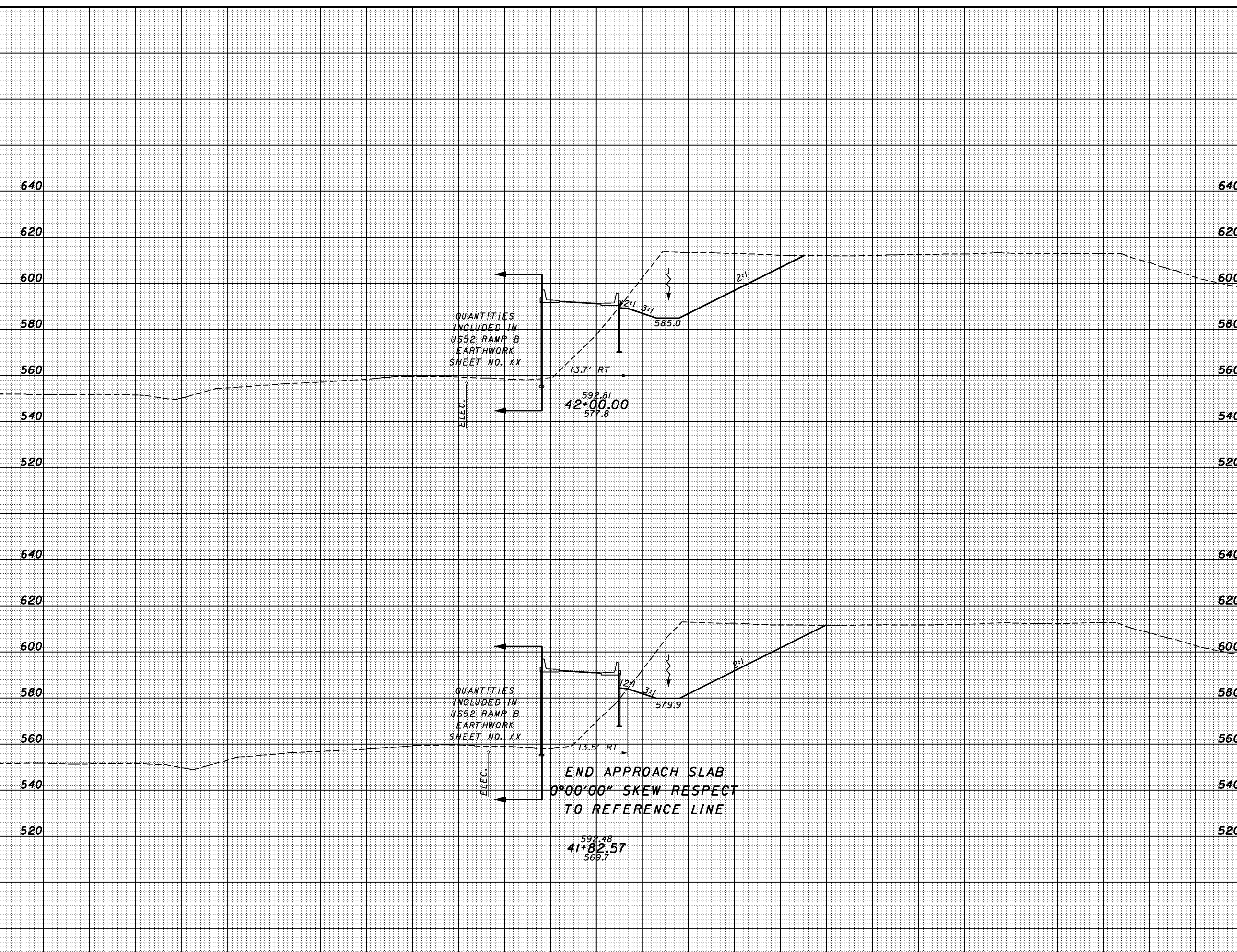
SCI-823-0.00



3:46:59 PM 1/30/2008 g:\C003\0064\Road\PHASE 3\T1366x5\_US52RAMP.A.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  
US52 RAMP A - STA. 41+82.57 TO STA. 42+00.00

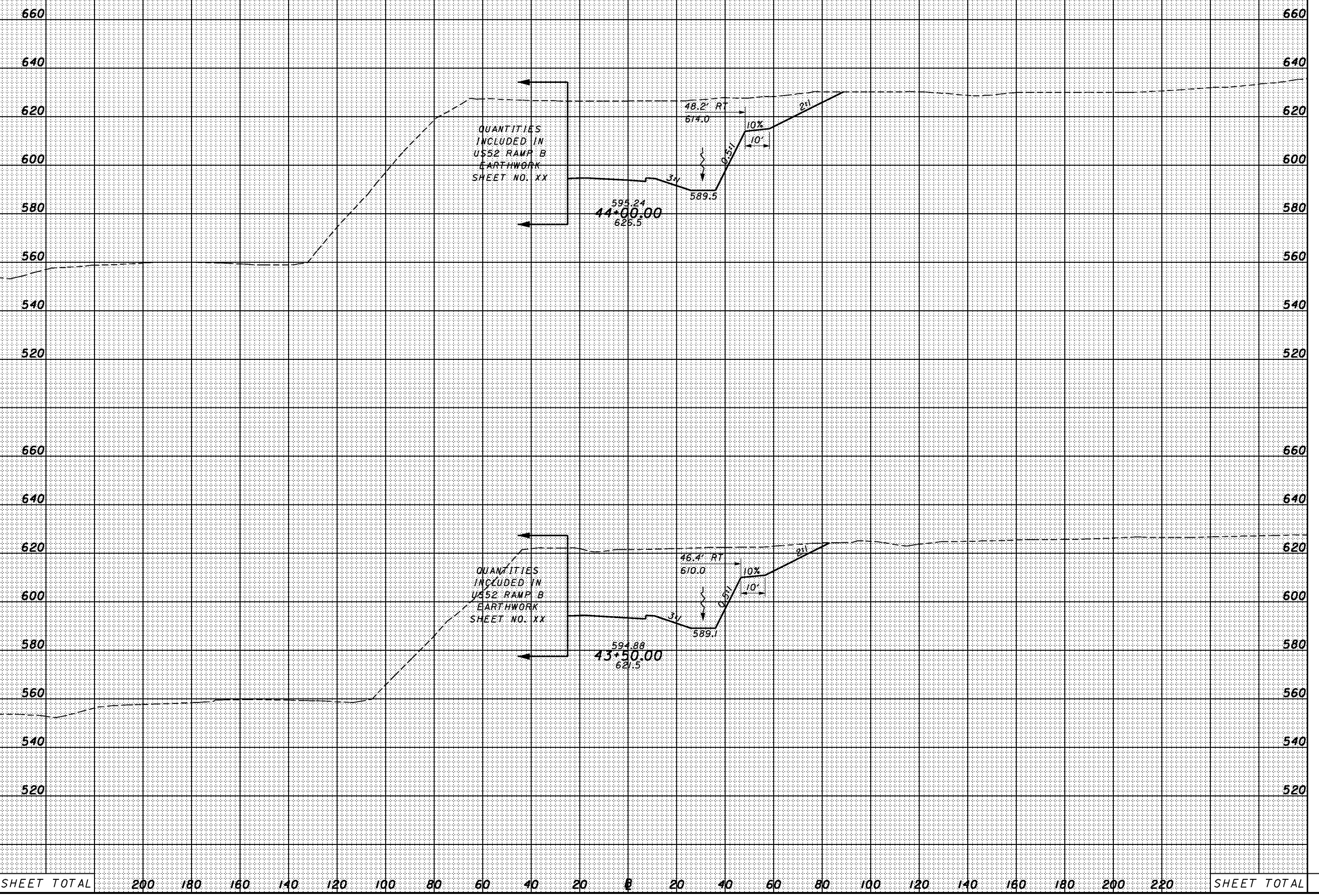
SCI-823-0.00



3:47:01 PM 1/30/2008 g:\C003\0064\Road\PHASE\_3\T1366\US52RAMP.A.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

SCI-823-0.00  
 CROSS SECTIONS  
 US52 RAMP A - STA. 43+50.00 TO STA. 44+00.00







3:47:04 PM 1/30/2008 g:\C003\0064\Road\PHASE\_3\T1366\US52RAMP.A.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

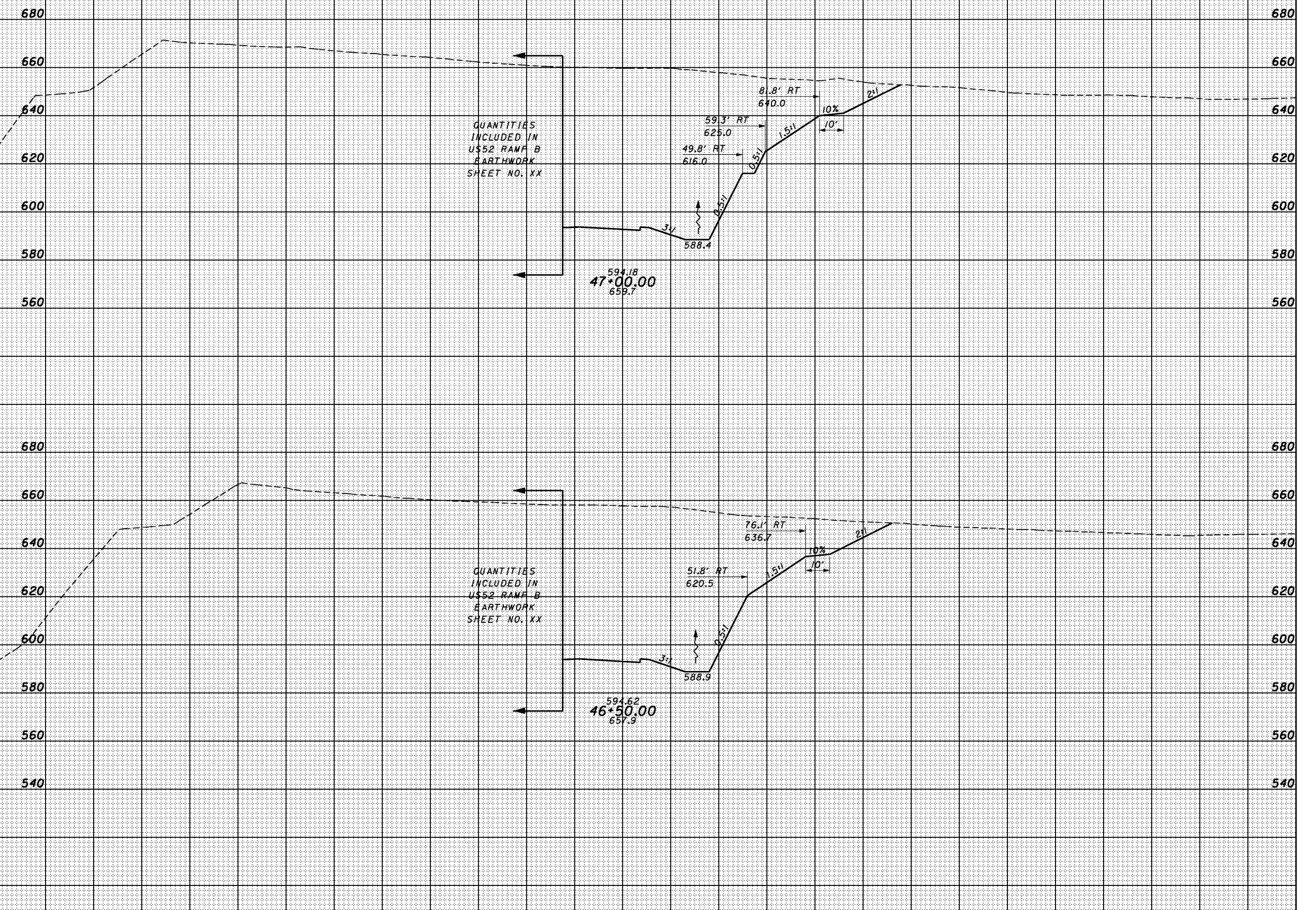
CALCULATED	CHECKED
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CROSS SECTIONS  
US52 RAMP A - STA. 46+50.00 TO STA. 47+00.00

SCI-823-0.00

537

680	680
660	660
640	640
620	620
600	600
580	580
560	560
680	680
660	660
640	640
620	620
600	600
580	580
560	560
540	540



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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3:44:01 PM 1/30/2008 g:\C003\0064\Road\PHASE\_3\T1366\ks\_LIS52RAMP.A.dgn

SEEDING	
END WIDTH	SO. YDS.

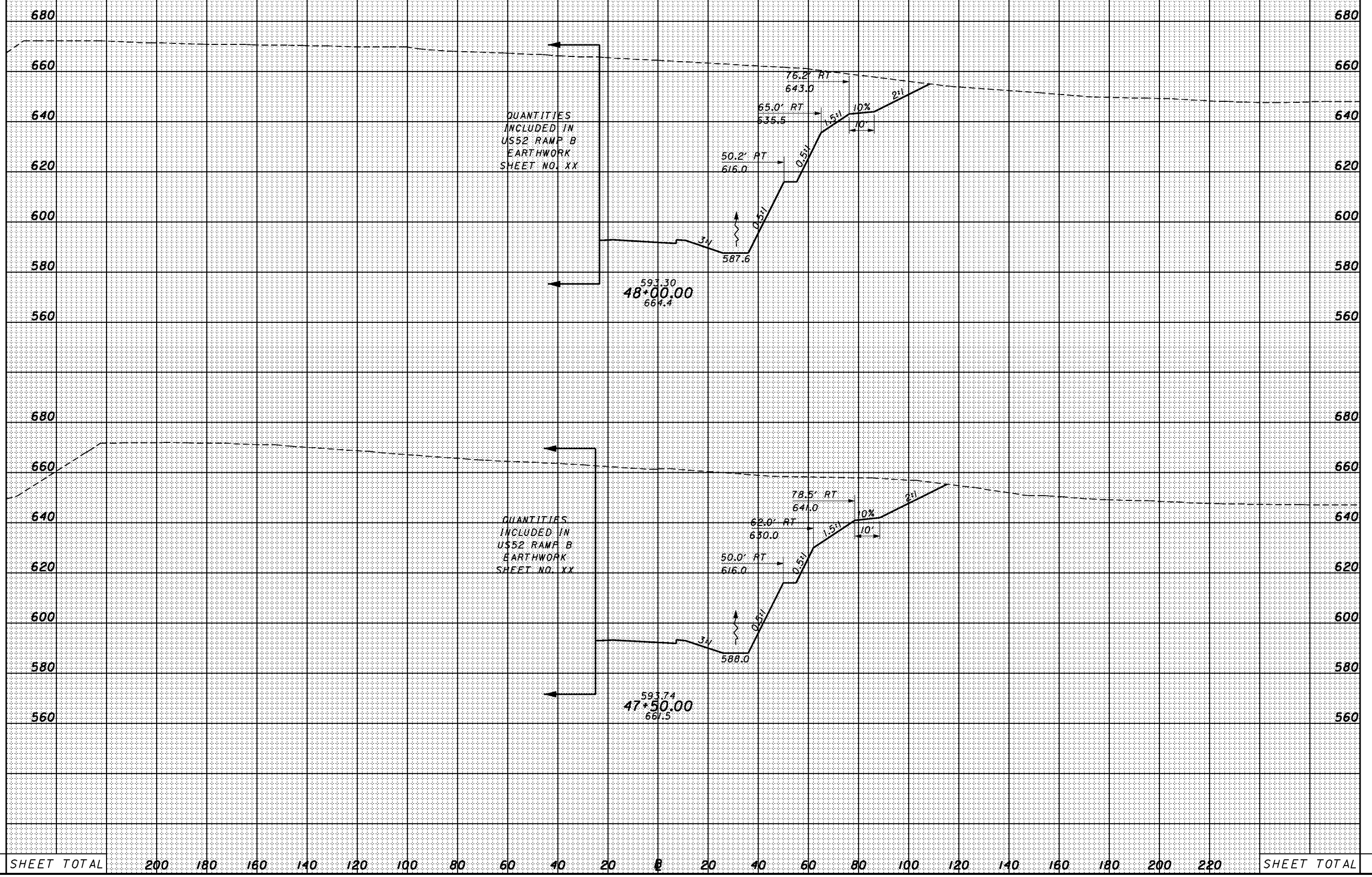
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
US52 RAMP A - STA. 47+50.00 TO STA. 48+00.00

SCI-823-0.00

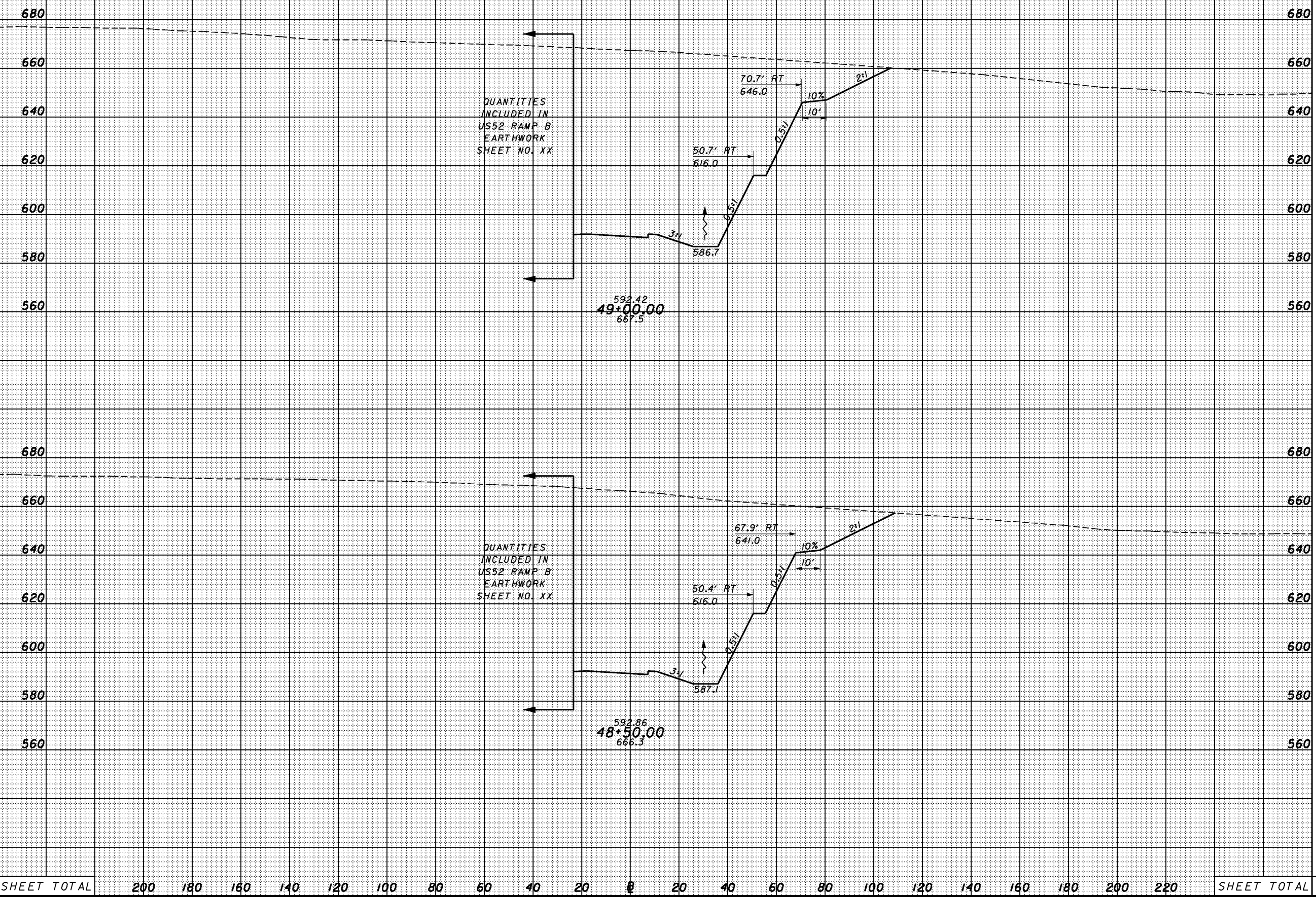
538



3:44:56 PM 1/30/2008 g:\C003\0064\Road\PHASE\_3\T1366\ks\_LJ52RAMP.A.dgn

SEEDING  
END SO.  
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



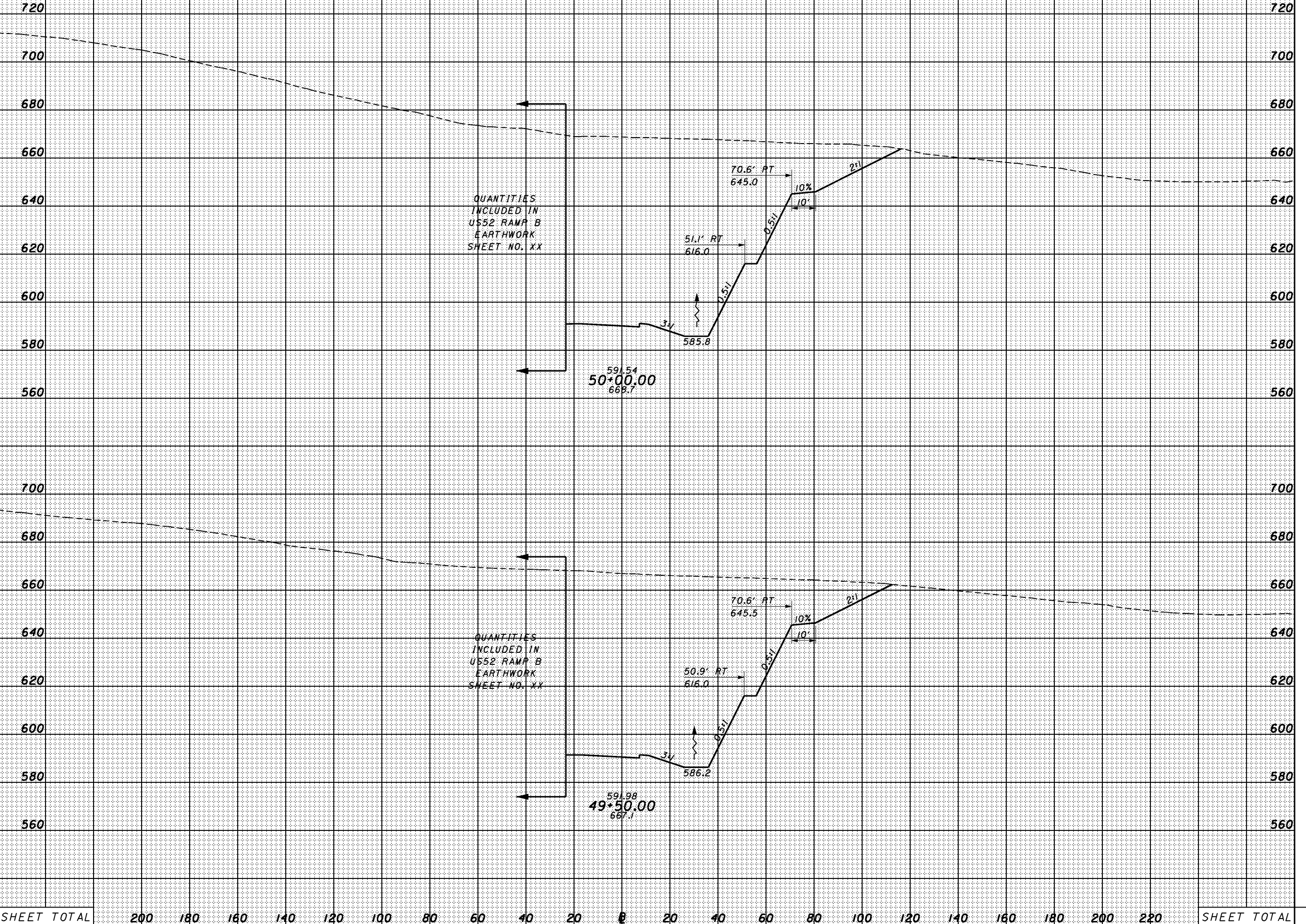
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL

SCI-823-0.00  
 CROSS SECTIONS  
 US52 RAMP A - STA. 48+50.00 TO STA. 49+00.00  
 539

3:47:07 PM 1/30/2008 g:\c003\0064\Road\PHASE\_3\T1366xs\_LJ52RAMP.A.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



QUANTITIES INCLUDED IN US52 RAMP B EARTHWORK SHEET NO. XX

QUANTITIES INCLUDED IN US52 RAMP B EARTHWORK SHEET NO. XX

591.54  
50+00.00  
669.7

591.98  
49+50.00  
667.1

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
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CROSS SECTIONS  
US52 RAMP A - STA. 49+50.00 TO STA. 50+00.00

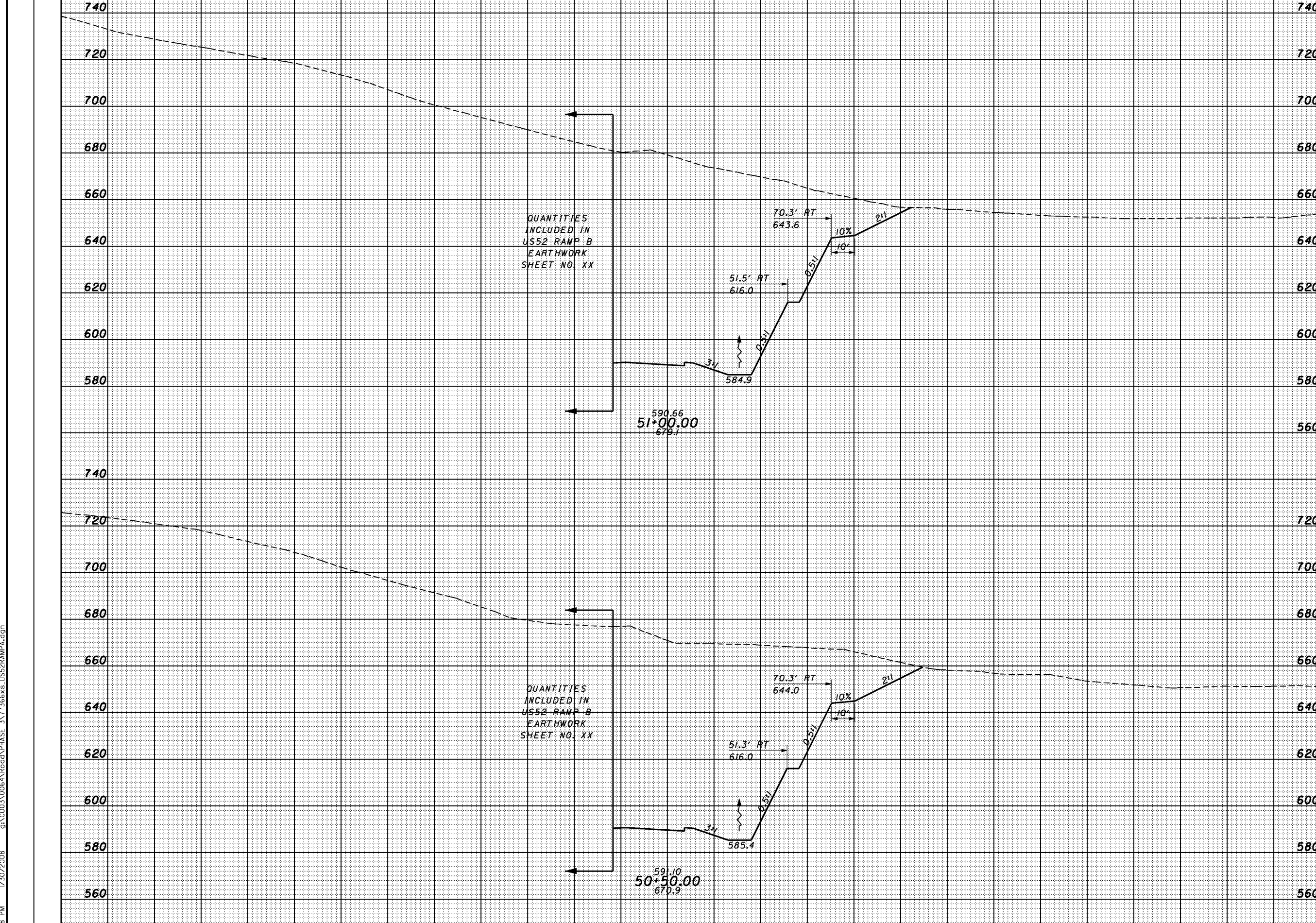
SCI-823-0.00



3:47:08 PM 1/30/2008 g:\C003\0064\Road\PHASE\_3\T13666xs\_US52RAMP.A.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS  
US52 RAMP A - STA. 50+50.00 TO STA. 51+00.00

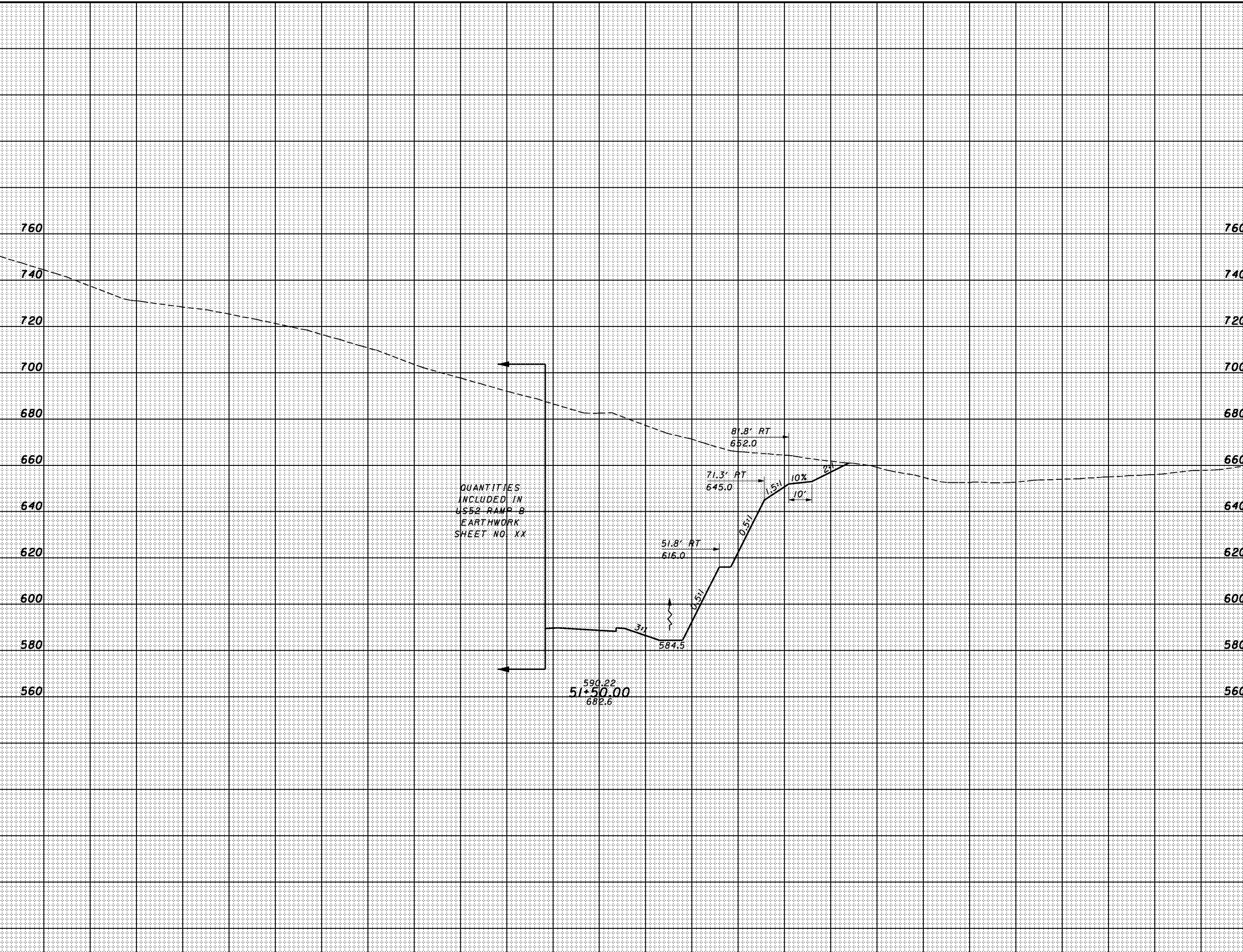
SCI-823-0.00

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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3:47:09 PM 1/30/2008 g:\C003\0064\Road\PHASE 3\171366xs\_LJ52RAMP.A.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

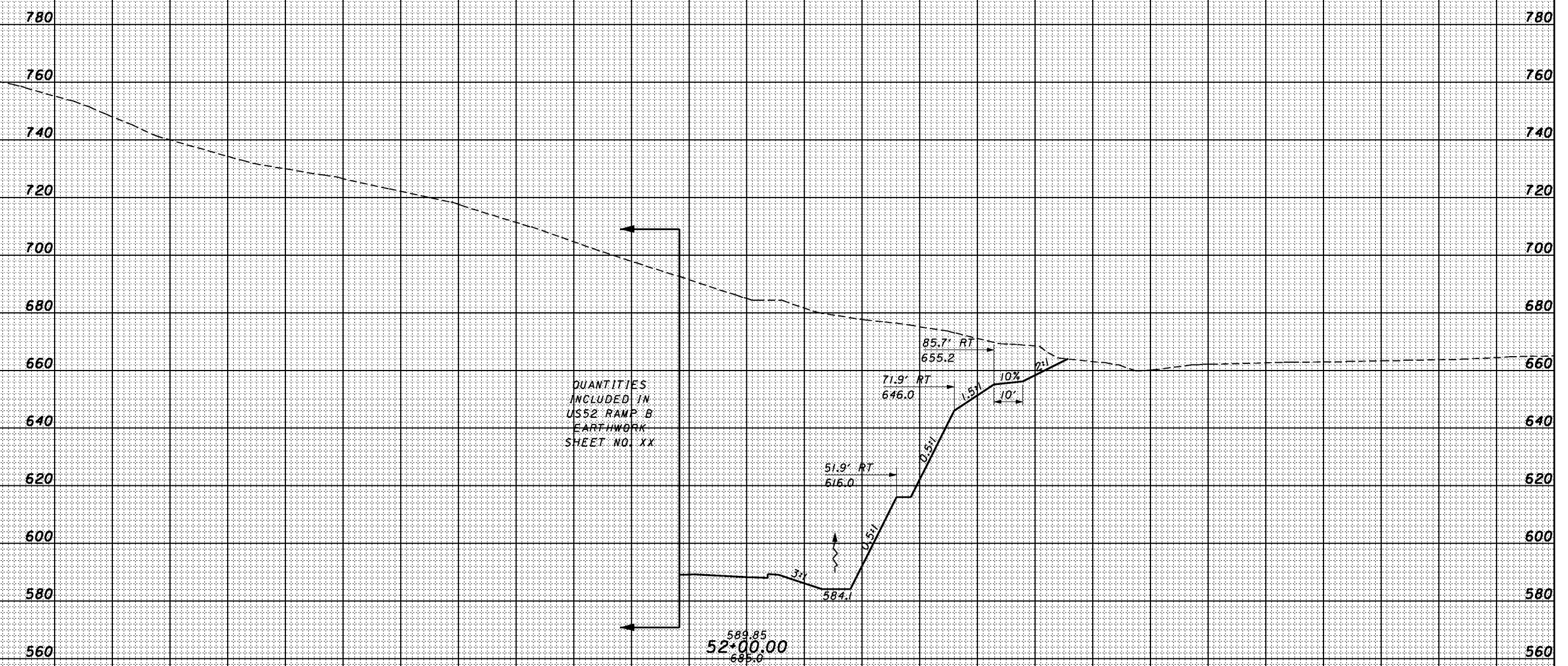
CROSS SECTIONS  
US52 RAMP A - STA. 51+50.00

SCI-823-0.00

3:47:10 PM 1/30/2008 g:\C003\0064\Road\PHASE 3\171366xs\_US52RAMP.A.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  
US52 RAMP A - STA. 52+00.00

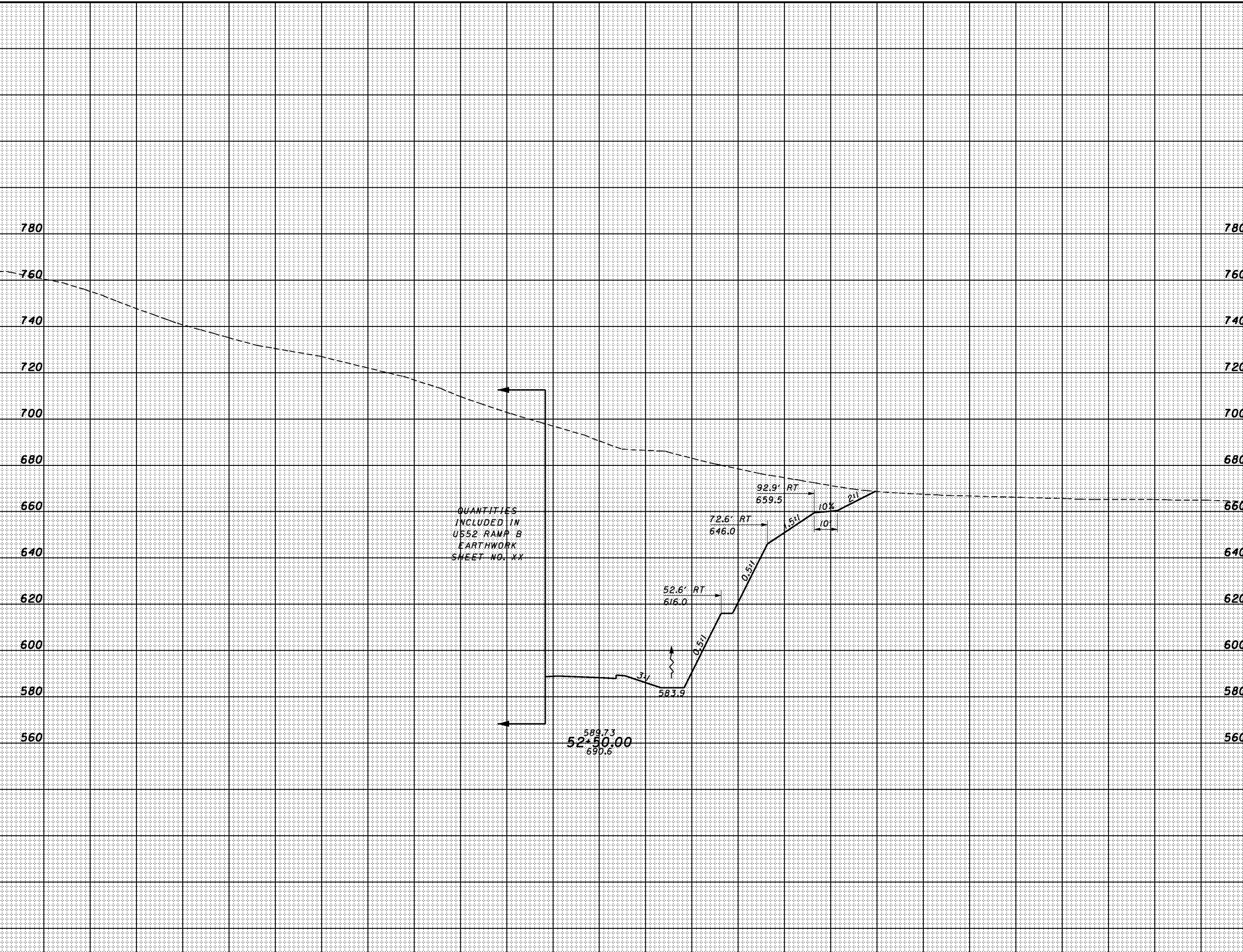
SCI-823-0.00



3:47:11 PM 1/30/2008 g:\C003\0064\Road\PHASE\_3\171366x5\_LIS52RAMP.A.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

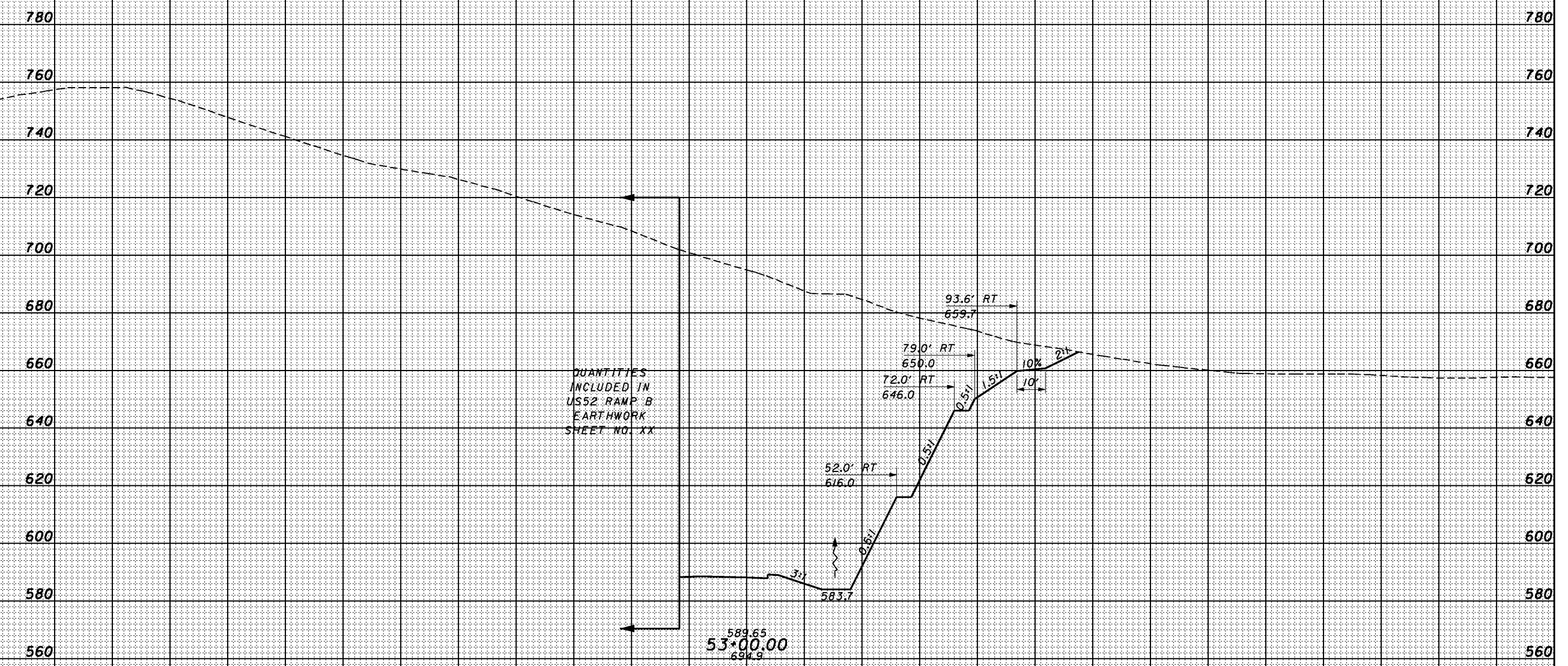
CROSS SECTIONS  
US52 RAMP A - STA. 52+50.00

SCI-823-0.00

3:47:12 PM 1/30/2008 g:\C003\0064\Road\PHASE\_3\171366xs\_US52RAMP.A.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

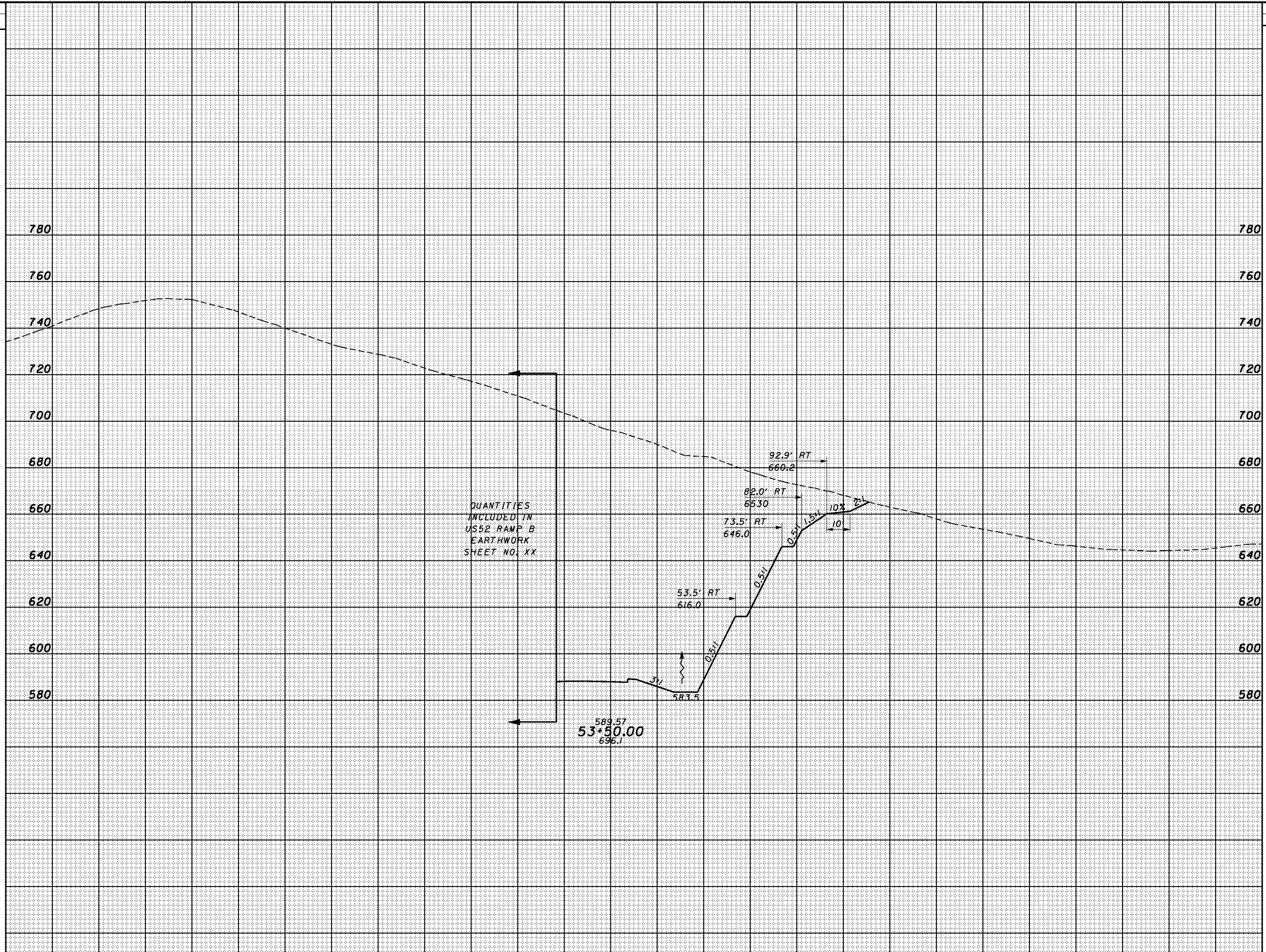
CROSS SECTIONS  
US52 RAMP A - STA. 53+00.00

SCI-823-0.00

3:47:33 PM 1/30/2008 g:\C003\0064\Road\PHASE 3\171366xs\_US52RAMP.A.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



QUANTITIES INCLUDED IN US52 RAMP B EARTHWORK SHEET NO. XX

589.57  
53+50.00  
696.1

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
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CROSS SECTIONS  
US52 RAMP A - STA. 53+50.00

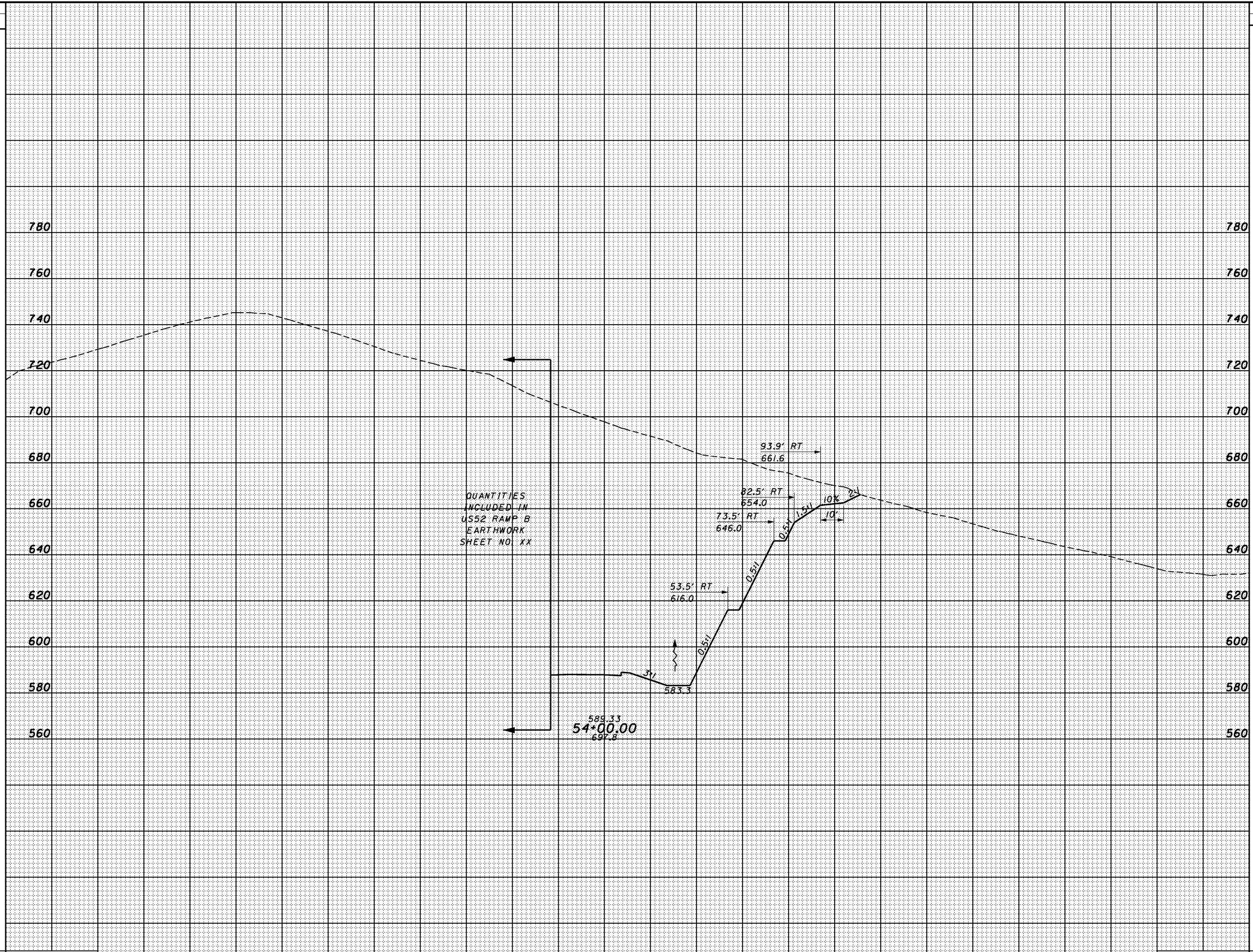
SCI-823-0.00



3:47:14 PM 1/30/2008 g:\C003\0064\Road\PHASE 3\T1366\US52RAMP.A.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

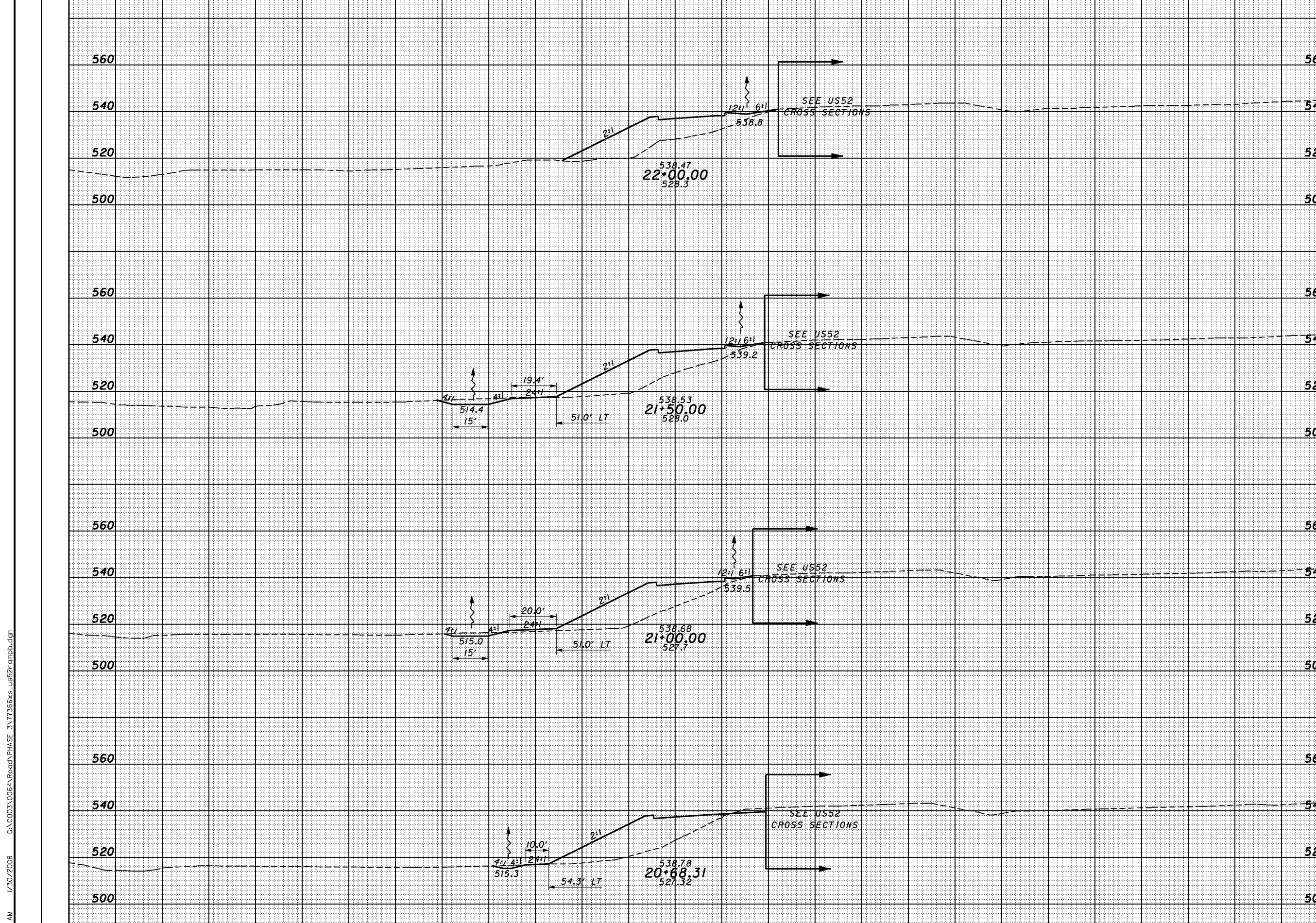
CROSS SECTIONS  
US52 RAMP A - STA. 54+00.00

SCI-823-0.00

547

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  
US52 RAMP B - STA. 20+68.31 TO STA. 22+00.00

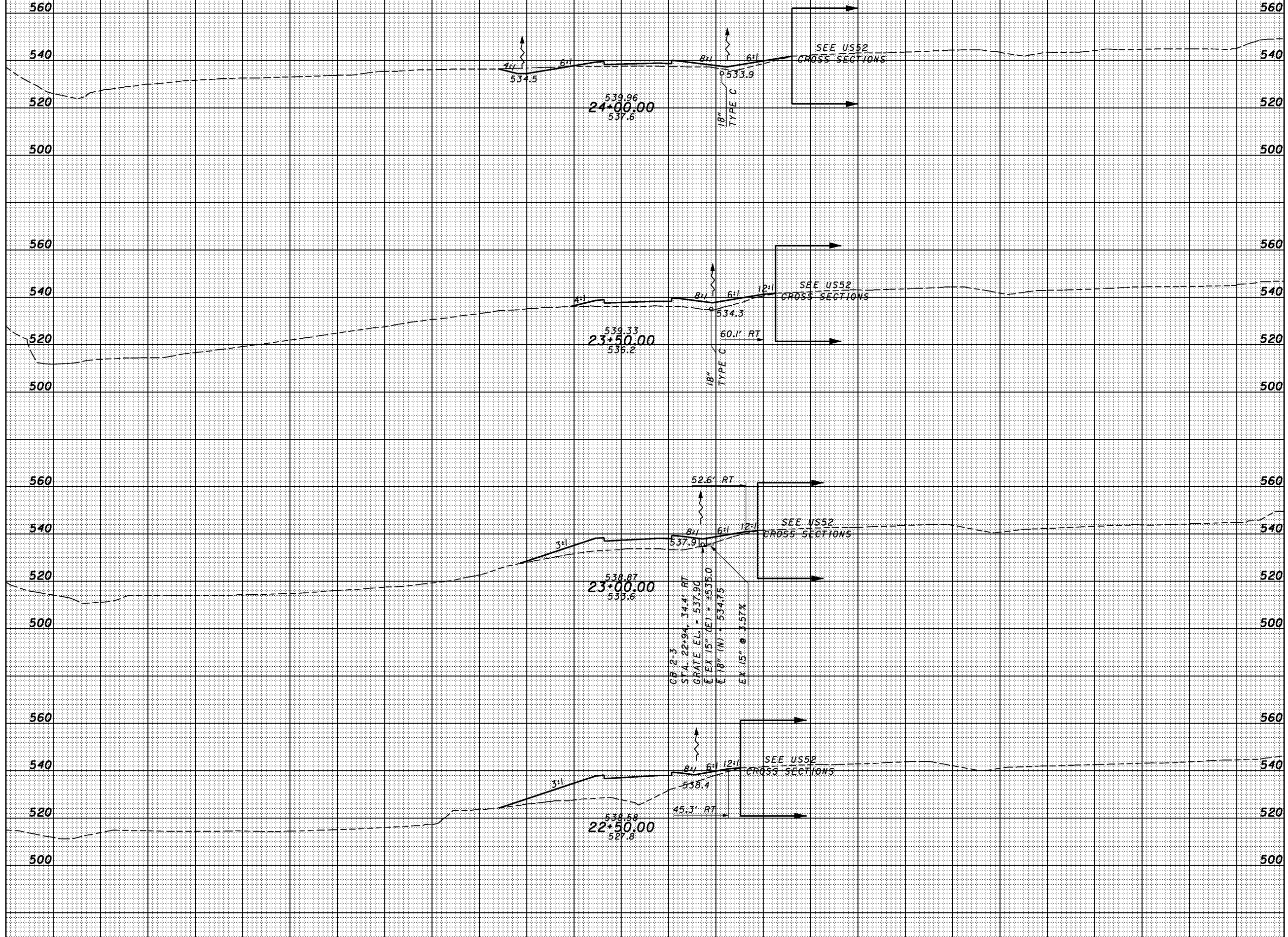
SCI-823-0.00

8/5/14 8 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x\_us52r\_ombb.dgn

8/5/31/08 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668x\_us52r\_ombb.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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US52 RAMP B - STA. 22+50.00 TO STA. 24+00.00

SCI-823-0.00

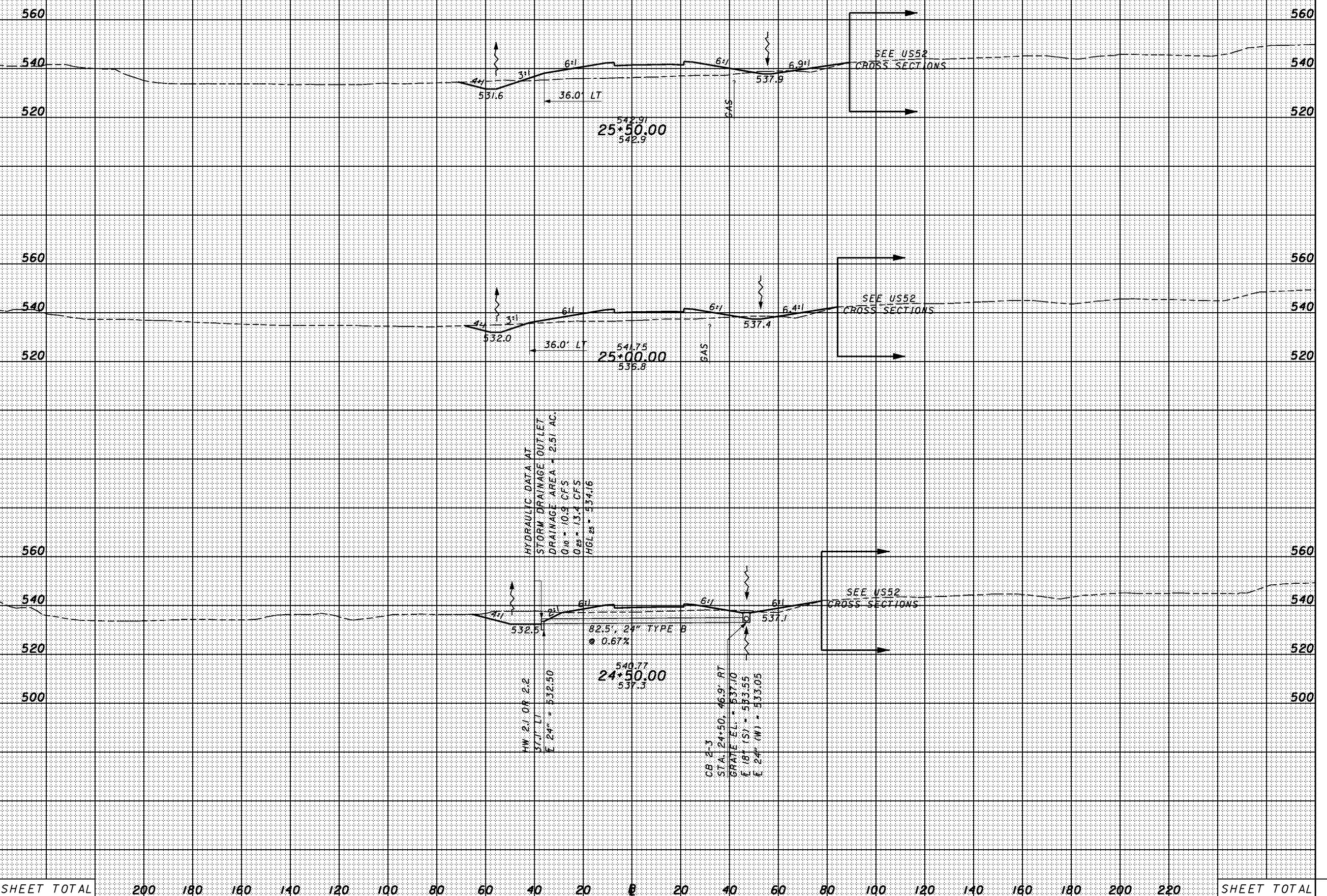


8:53:50 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-us52r-ombb.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
CHECKED



CROSS SECTIONS  
US52 RAMP B - STA. 24+50.00 TO STA. 25+50.00

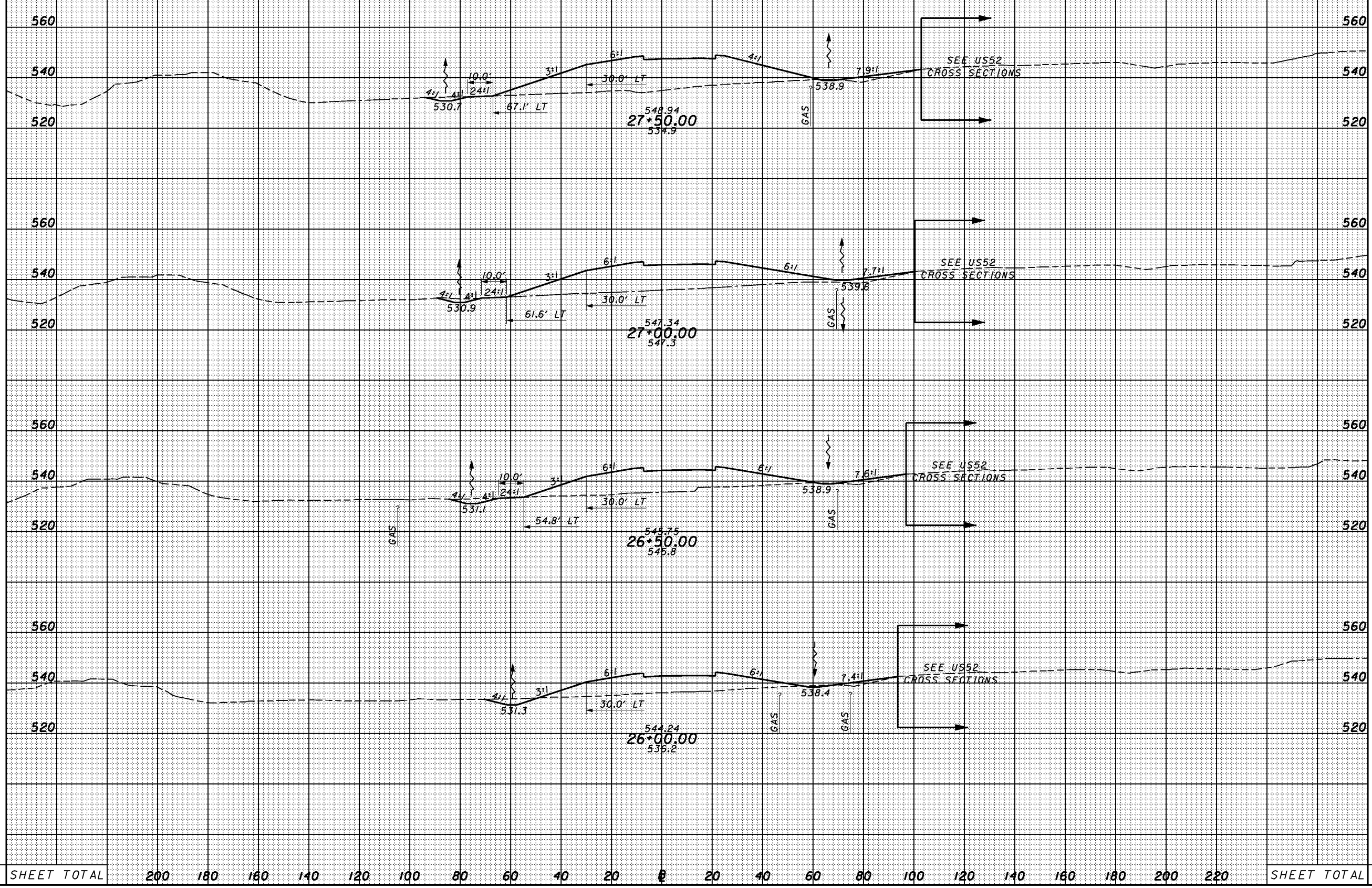
SCI-823-0.00

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

8:53:51 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668x\_us52r-ombb.dgn

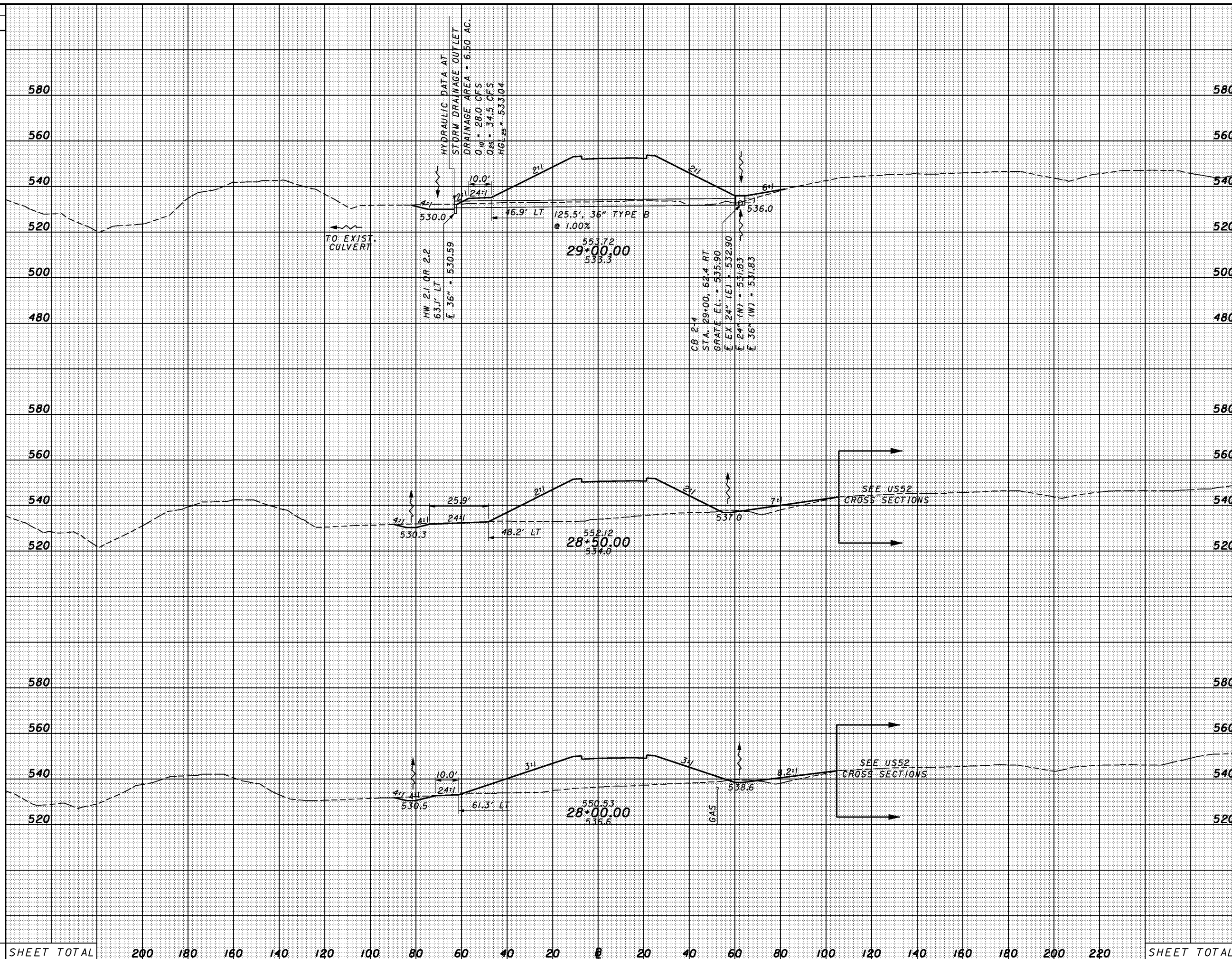


US52 RAMP B - STA. 26+00.00 TO STA. 27+50.00  
 SCI-823-0.00  
 551

8:53:52 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668x\_us52r\_ombb.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  
US52 RAMP B - STA. 28+00.00 TO STA. 29+00.00

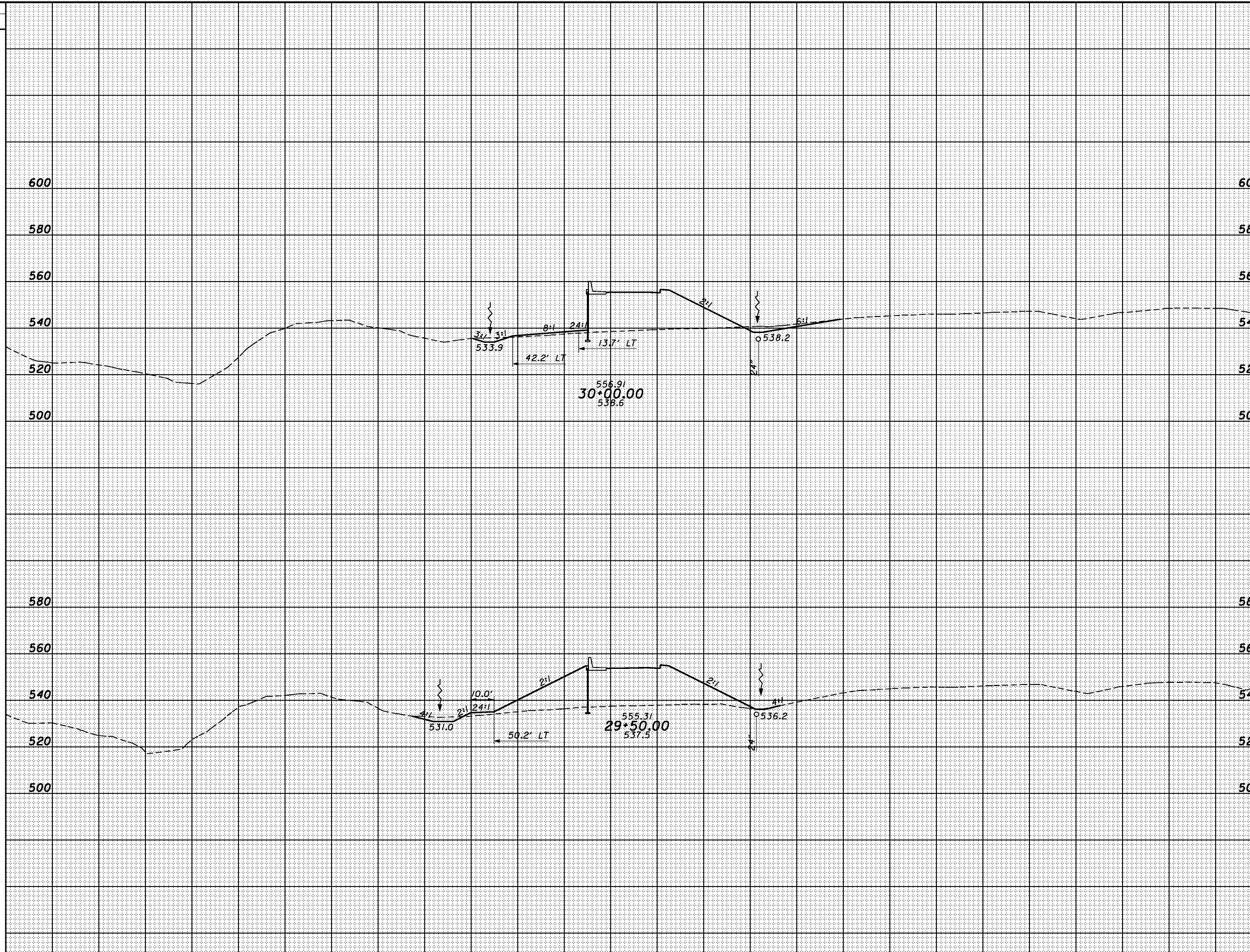
SCI-823-0.00



8/5/08 11:30/2008 G:\C003\0064\Road\PHASE 3\T13668s\_us52r\_ompb.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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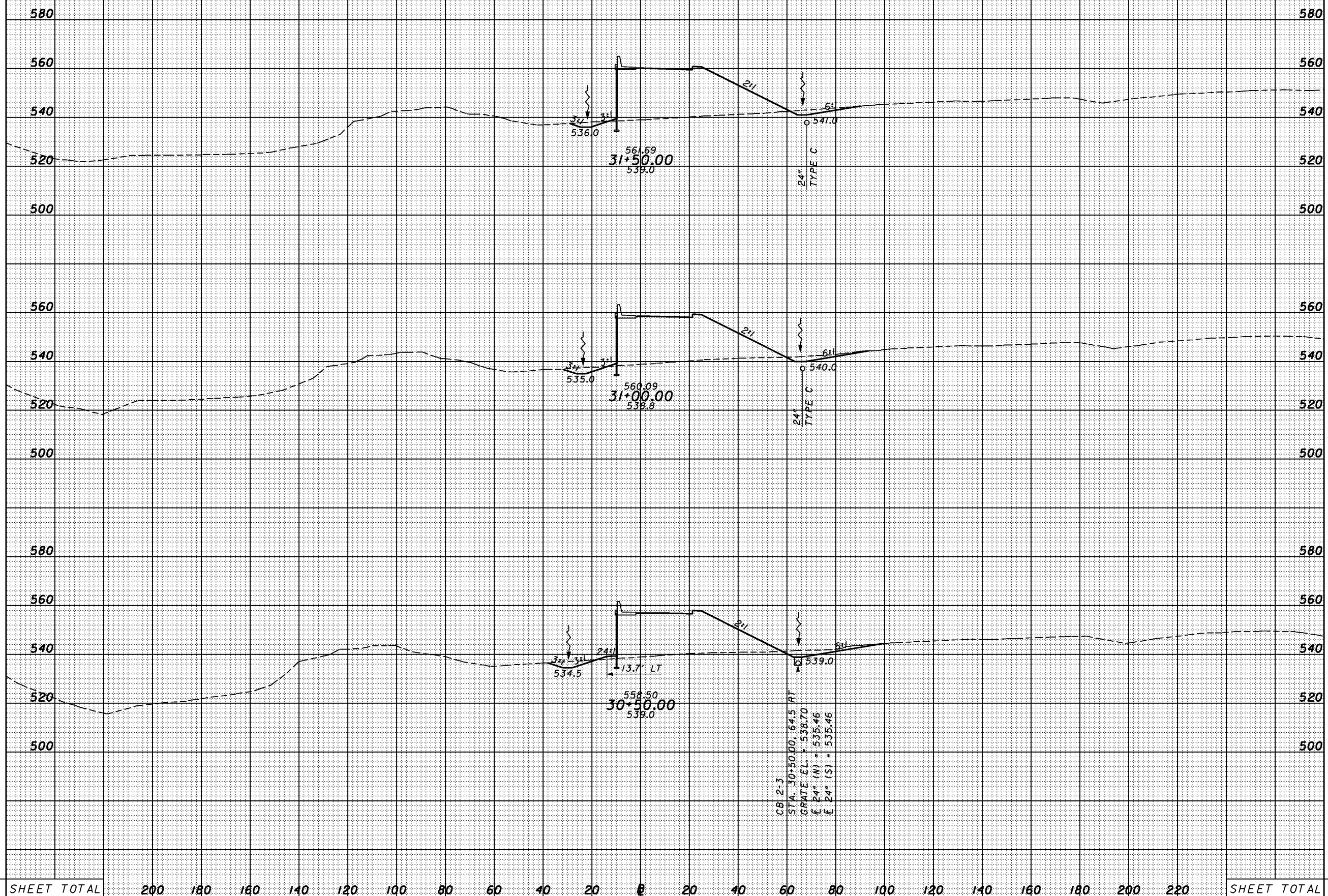
CROSS SECTIONS  
US52 RAMP B - STA. 29+50+00 TO STA. 30+00.00

SCI-823-0.00

8/5/2008 11:30/2008 G:\C003\0064\Road\PHASE\_3\1713668x\_us52r\_ombb.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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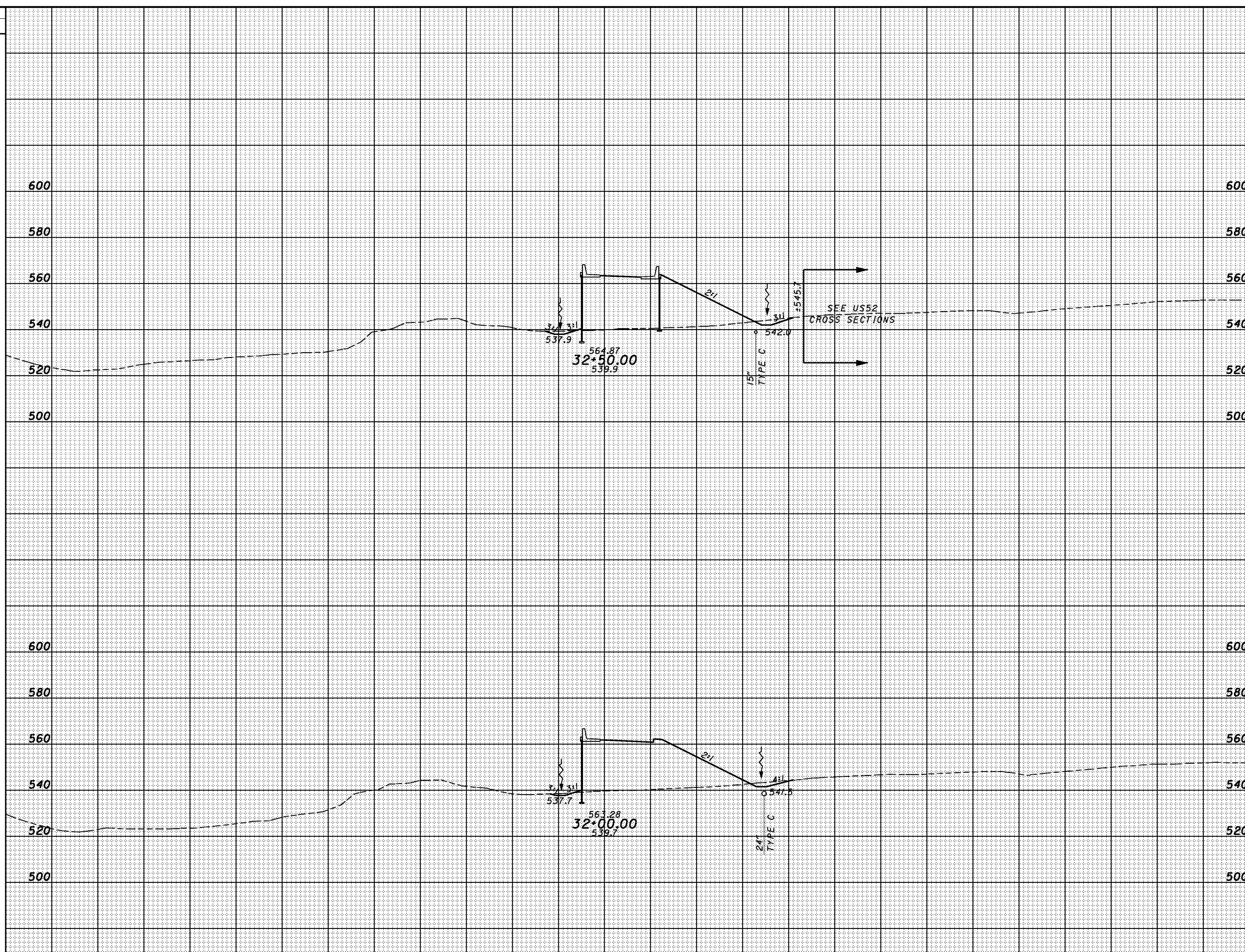
CROSS SECTIONS  
 US52 RAMP B - STA. 30+50.00 TO STA. 31+50.00

SCI-823-0.00

8:53:54 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs\_us52r\_ompb.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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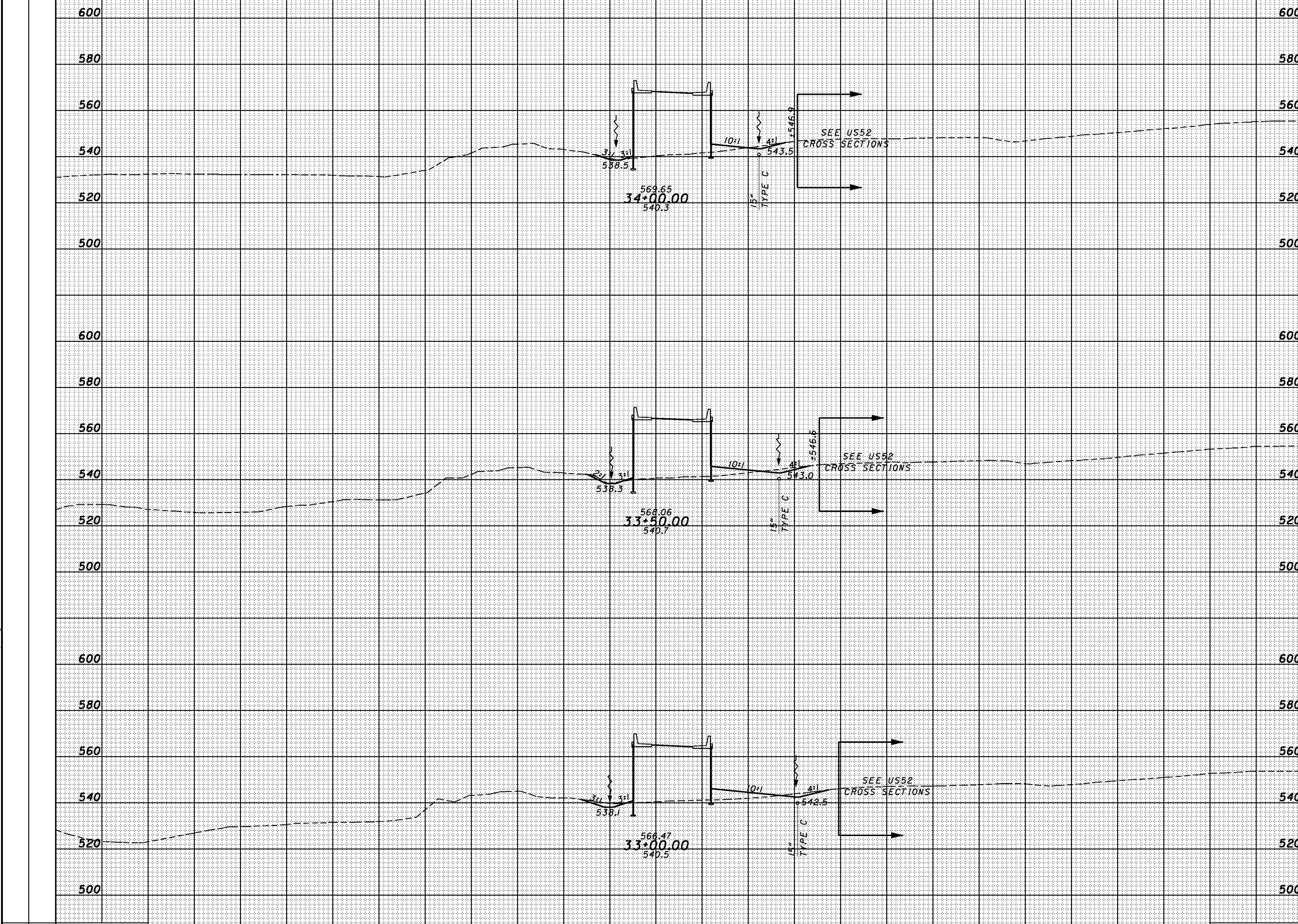
CROSS SECTIONS  
US52 RAMP B - STA. 32+00.00 TO STA. 32+50.00

SCI-823-0.00



SEEDING  
END WIDTH SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS  
US52 RAMP B - STA. 33+00.00 TO STA. 34+00.00

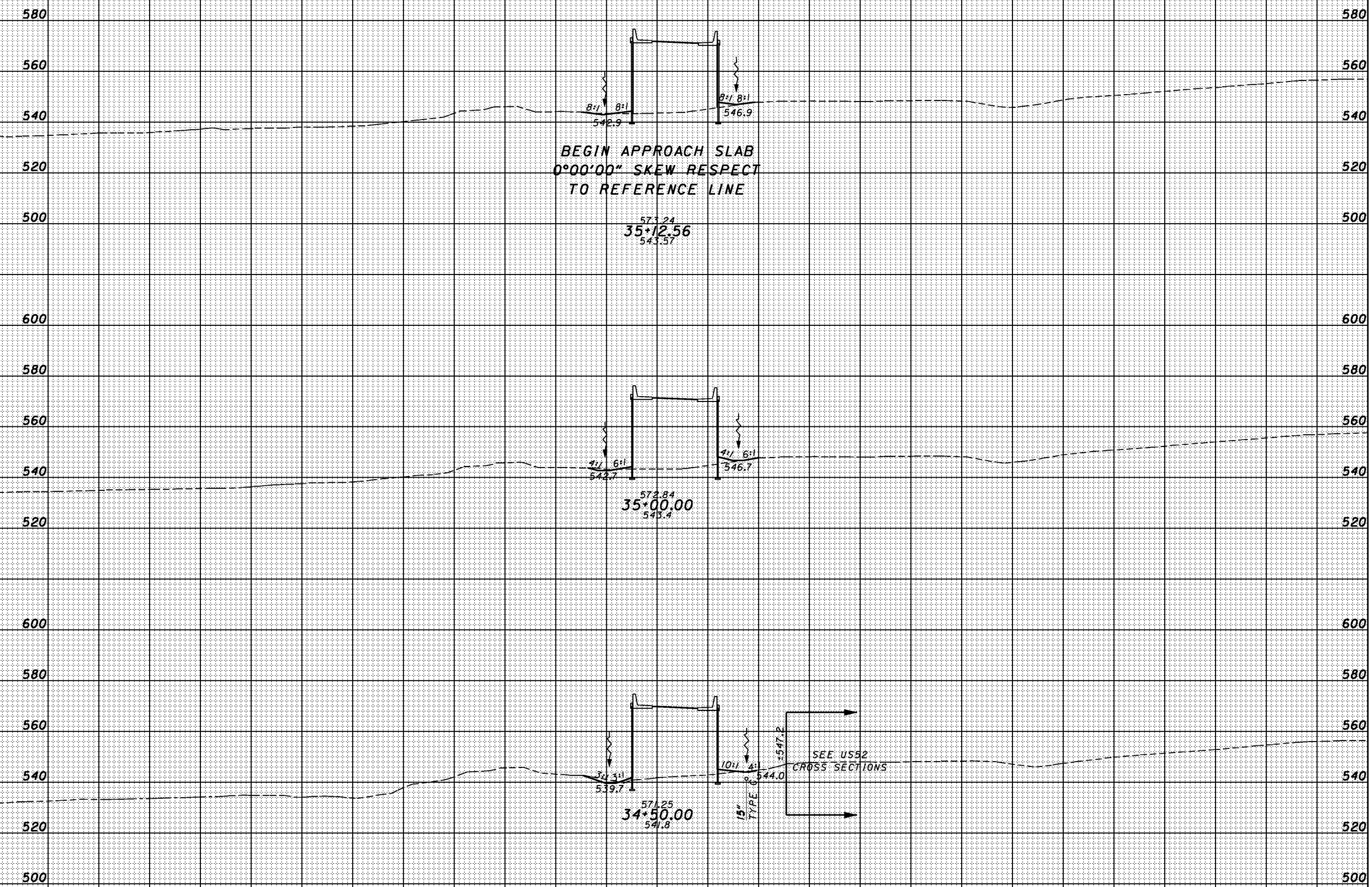
SCI-823-0.00

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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8:53:56 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668x\_us52r\_ombb.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  
 US52 RAMP B - STA. 34+50.00 TO STA. 35+12.56

SCI-823-0.00

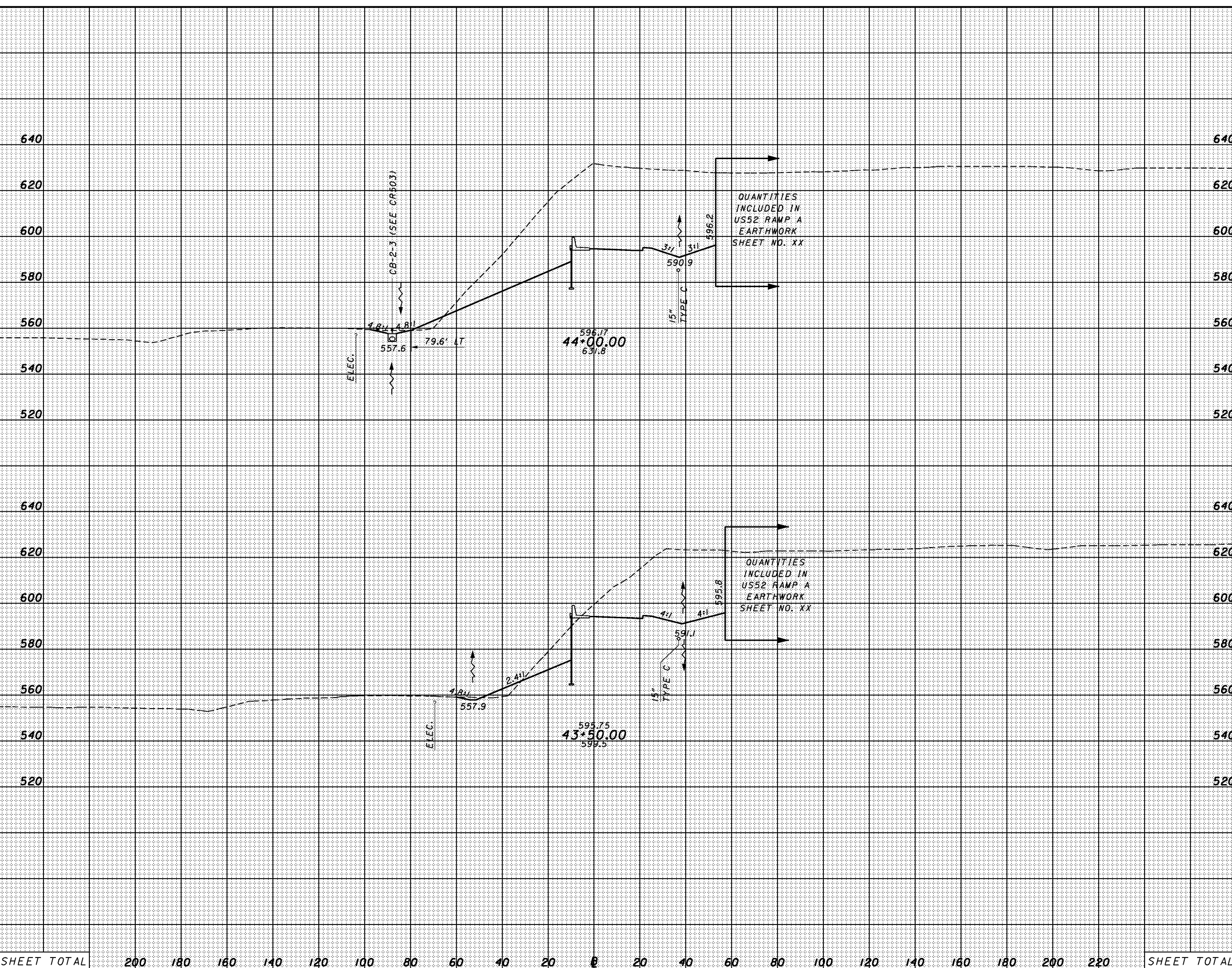




8:53:58 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668x\_us52r\_ombb.dgn

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

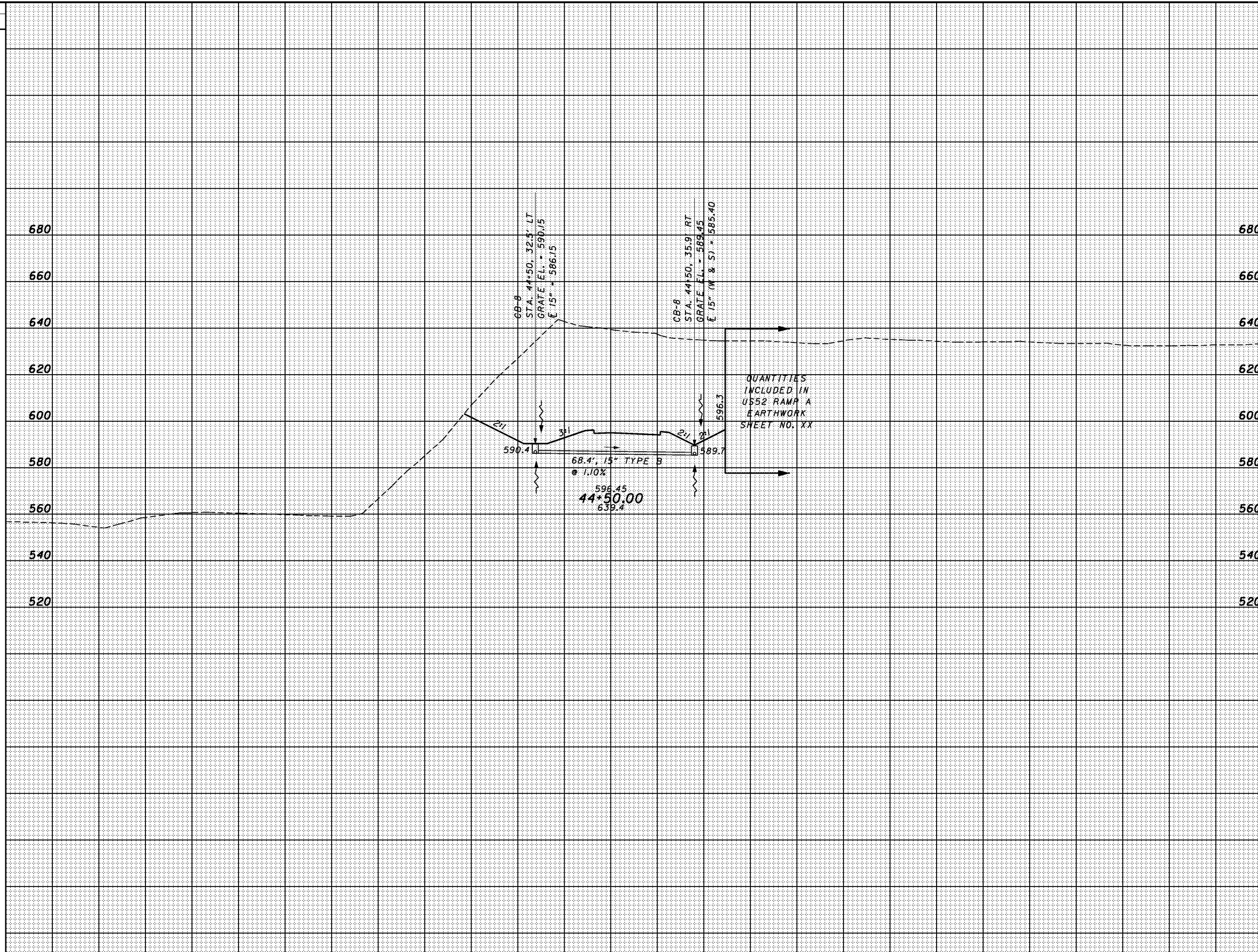
CROSS SECTIONS  
US52 RAMP B - STA. 43+50.00 TO STA. 44+00.00

SCI-823-0.00

8:53:59 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366xs\_us52r-ampb.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

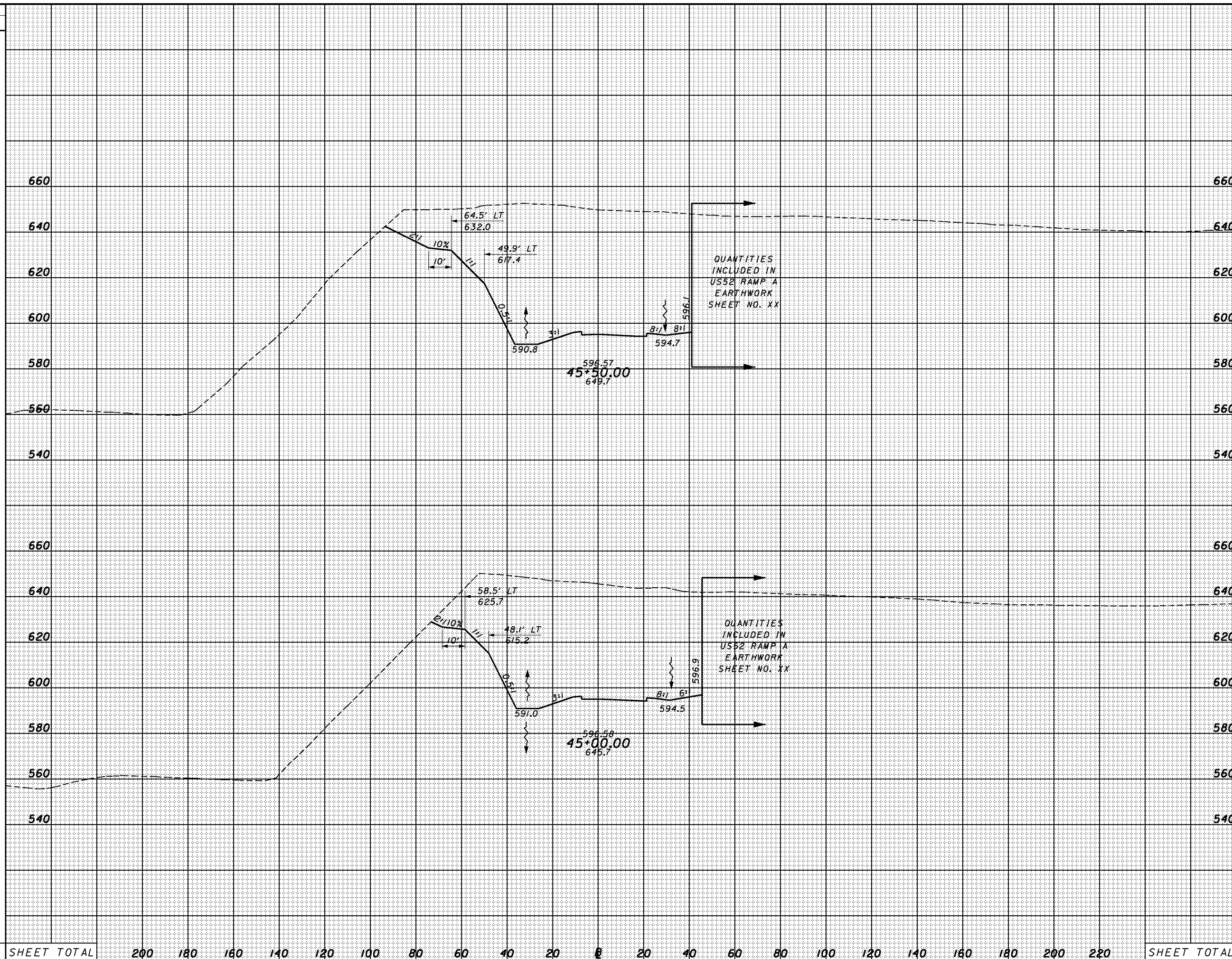
CROSS SECTIONS  
US52 RAMP B - STA. 44+50.00

SCI-823-0.00

8:54:00 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668x\_us52r\_ompb.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  
US52 RAMP B - STA. 45+00.00 TO STA. 45+50.00

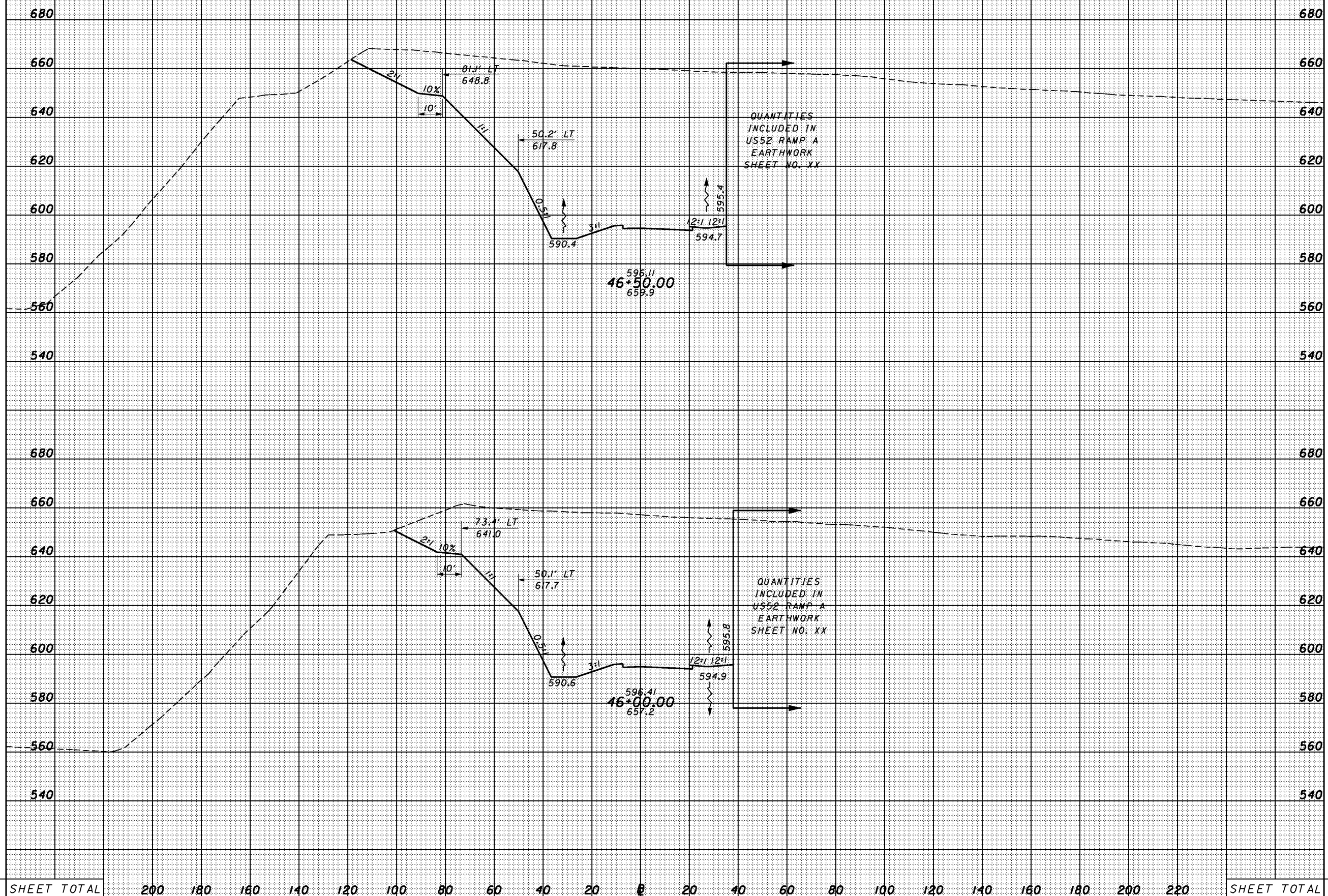
SCI-823-0.00



8:54:01 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\T13666xs\_us52r\_ompb.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  
US52 RAMP B - STA. 46+00.00 TO STA. 46+50.00

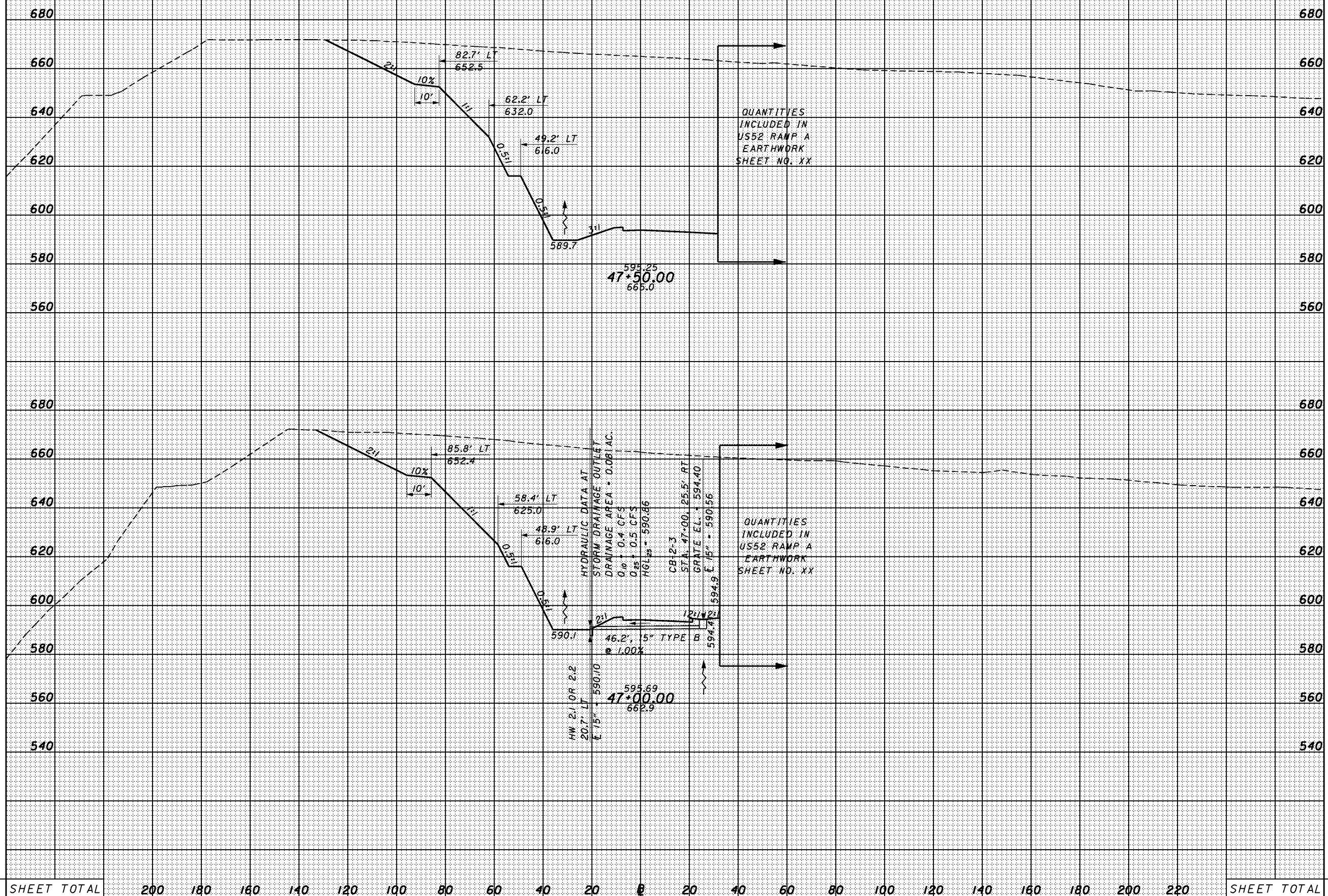
SCI-823-0.00

8:54:02 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\T13666xs\_us52r\_ombb.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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QUANTITIES INCLUDED IN US52 RAMP A EARTHWORK SHEET NO. XX

QUANTITIES INCLUDED IN US52 RAMP A EARTHWORK SHEET NO. XX

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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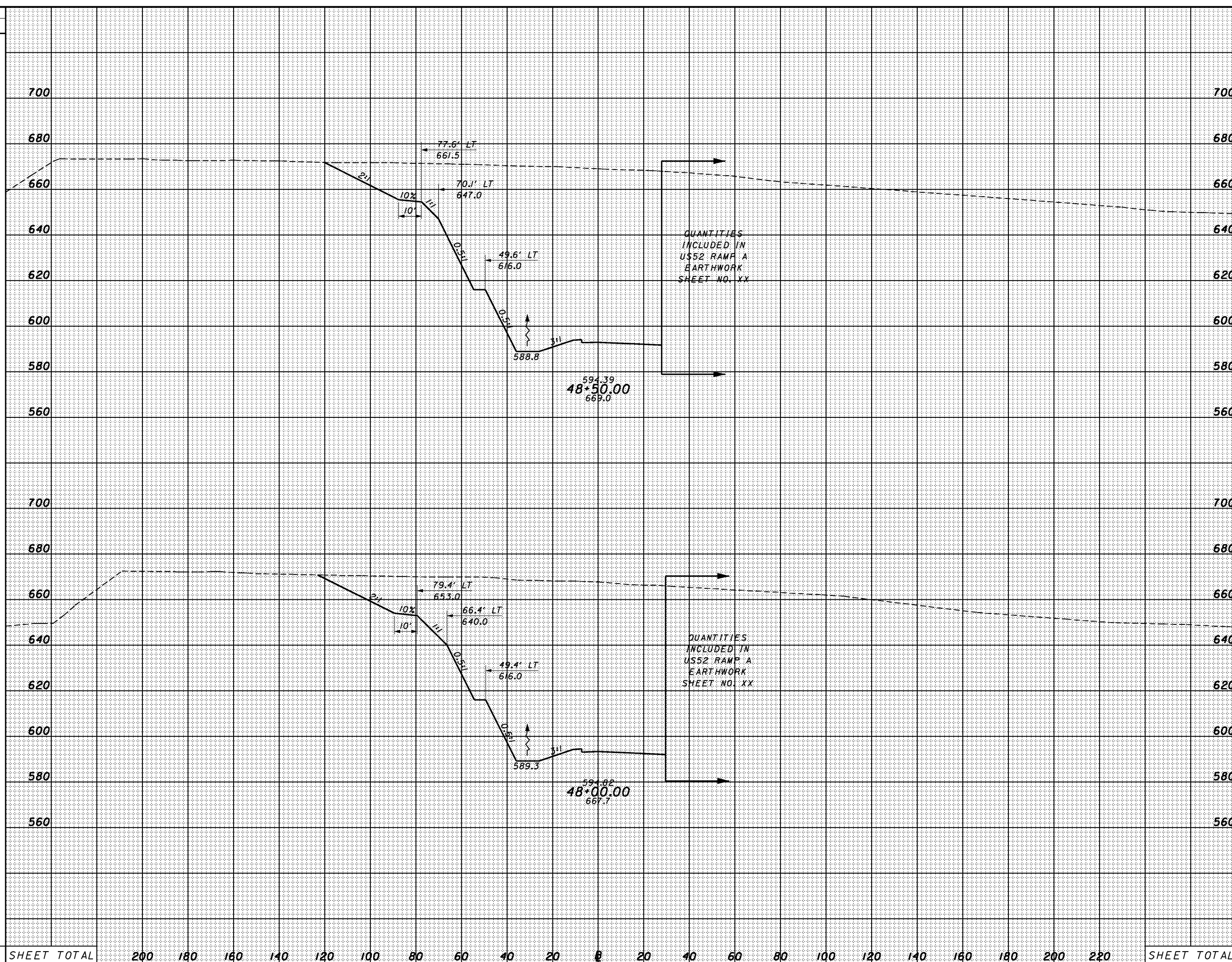
CROSS SECTIONS  
US52 RAMP B - STA. 47+00.00 TO STA. 47+50.00

SCI-823-0.00

8:54:03 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x\_us52r\_ombb.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



QUANTITIES INCLUDED IN US52 RAMP A EARTHWORK SHEET NO. XX

QUANTITIES INCLUDED IN US52 RAMP A EARTHWORK SHEET NO. XX

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  
US52 RAMP B - STA. 48+00.00 TO STA. 48+50.00

SCI-823-0.00

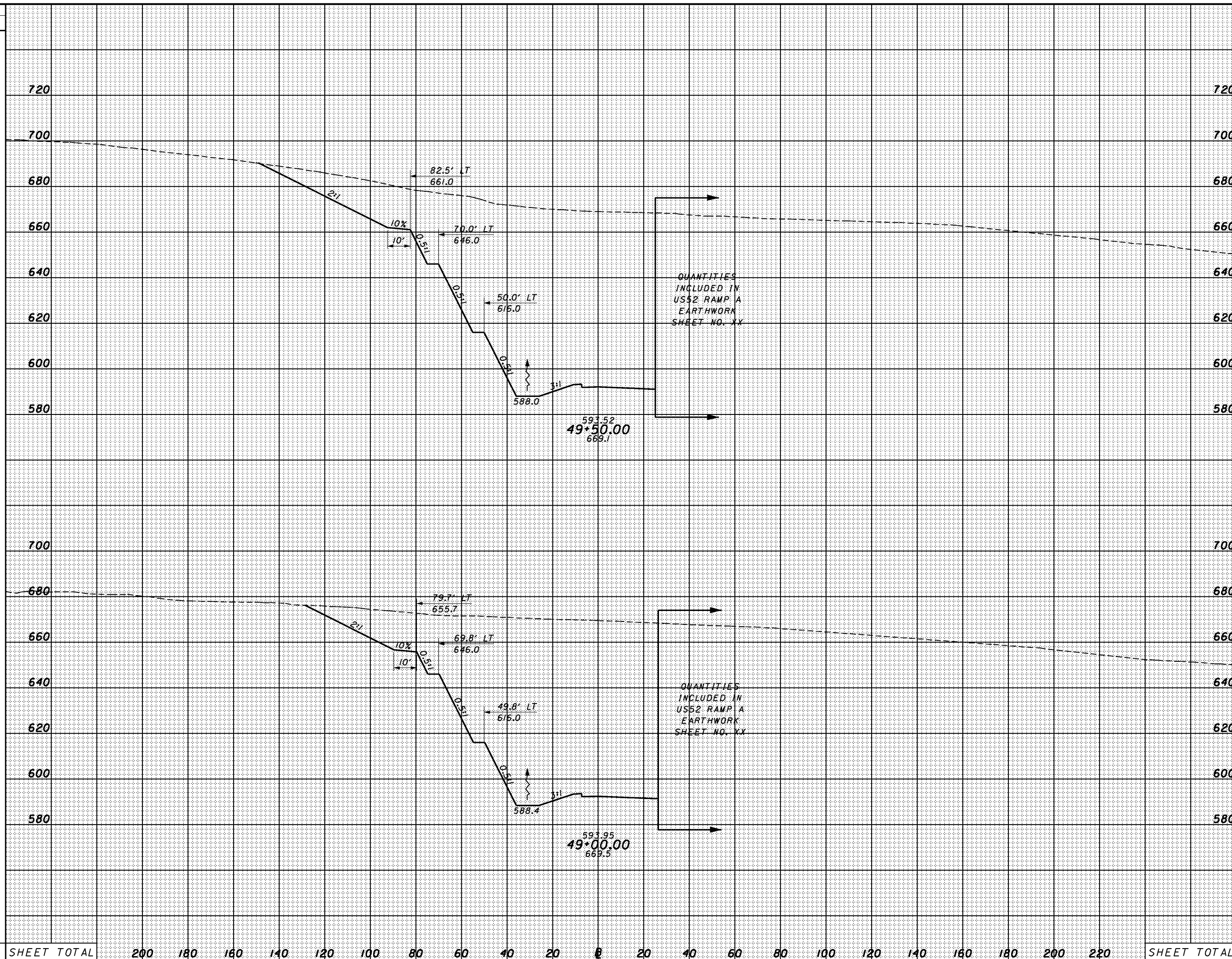
564



8:54:04 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668s\_us52r\_ombb.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  
US52 RAMP B - STA. 49+00.00 TO STA. 49+50.00

SCI-823-0.00

565

8:54:04 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668x\_us52r\_ompb.dgn

SEEDING	
END WIDTH	SO. YDS.

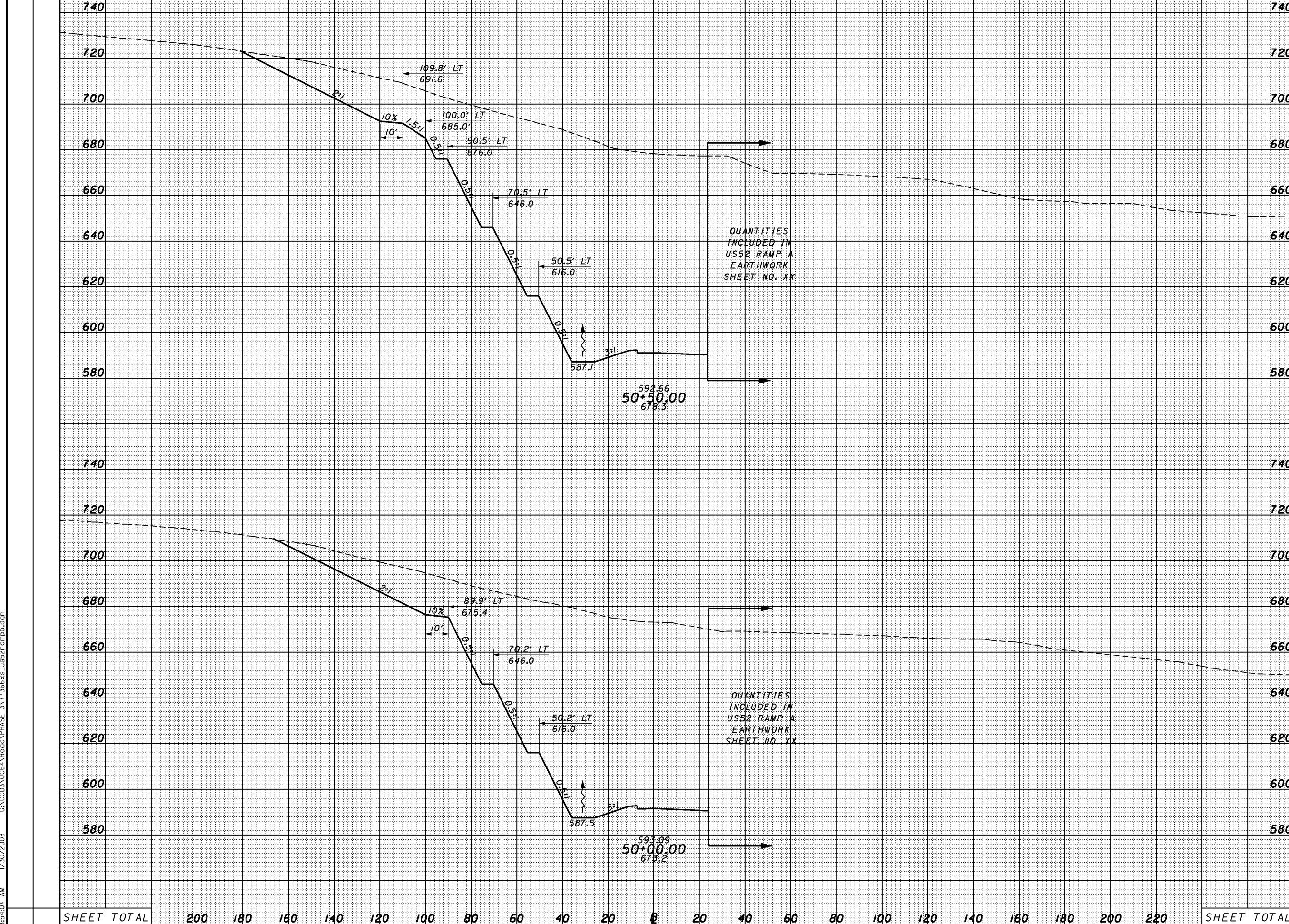
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
US52 RAMP B - STA. 50+00.00 TO STA. 50+50.00

SCI-823-0.00

566

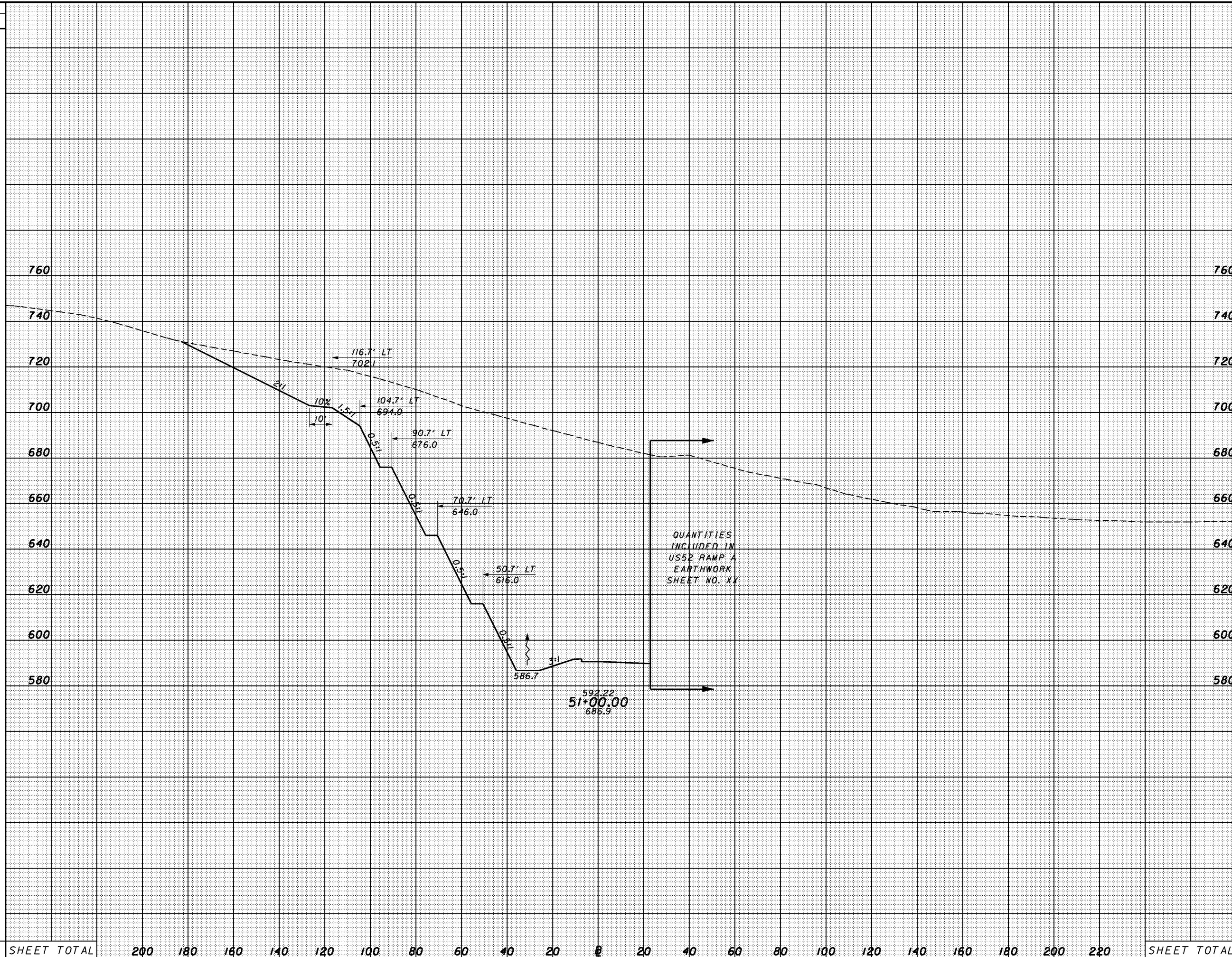


740	740		
720	720		
700	700		
680	680		
660	660		
640	640		
620	620		
600	600		
580	580		
740	740		
720	720		
700	700		
680	680		
660	660		
640	640		
620	620		
600	600		
580	580		
SHEET TOTAL	200	180	160
	140	120	100
	80	60	40
	20	0	20
	40	60	80
	100	120	140
	160	180	200
	220		
SHEET TOTAL			

8:54:05 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s\_us52r\_ompb.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  
US52 RAMP B - STA. 51+00.00

SCI-823-0.00

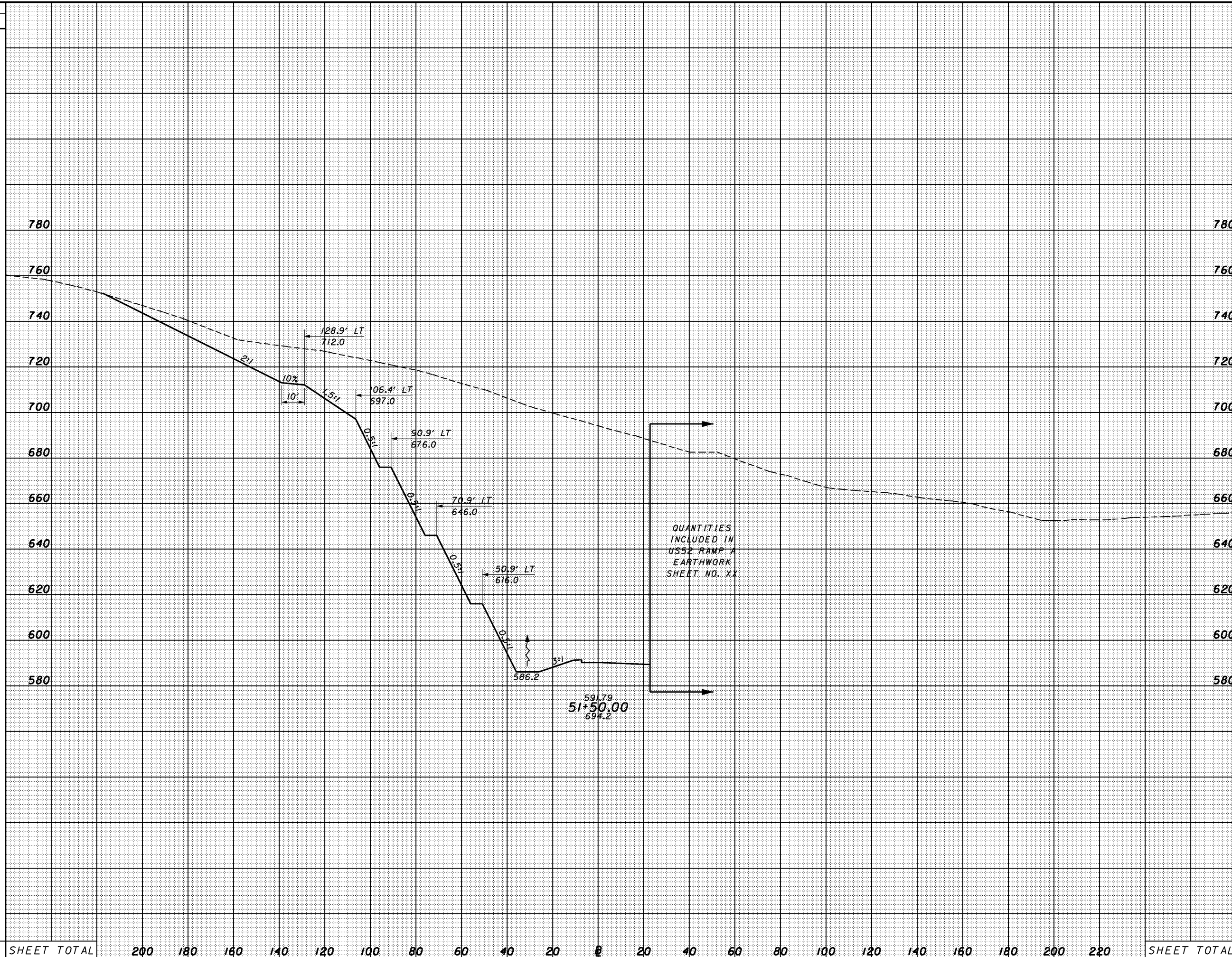
567



8:54:06 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s\_us52r\_ombb.dgn

SEEDING  
END SO.  
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



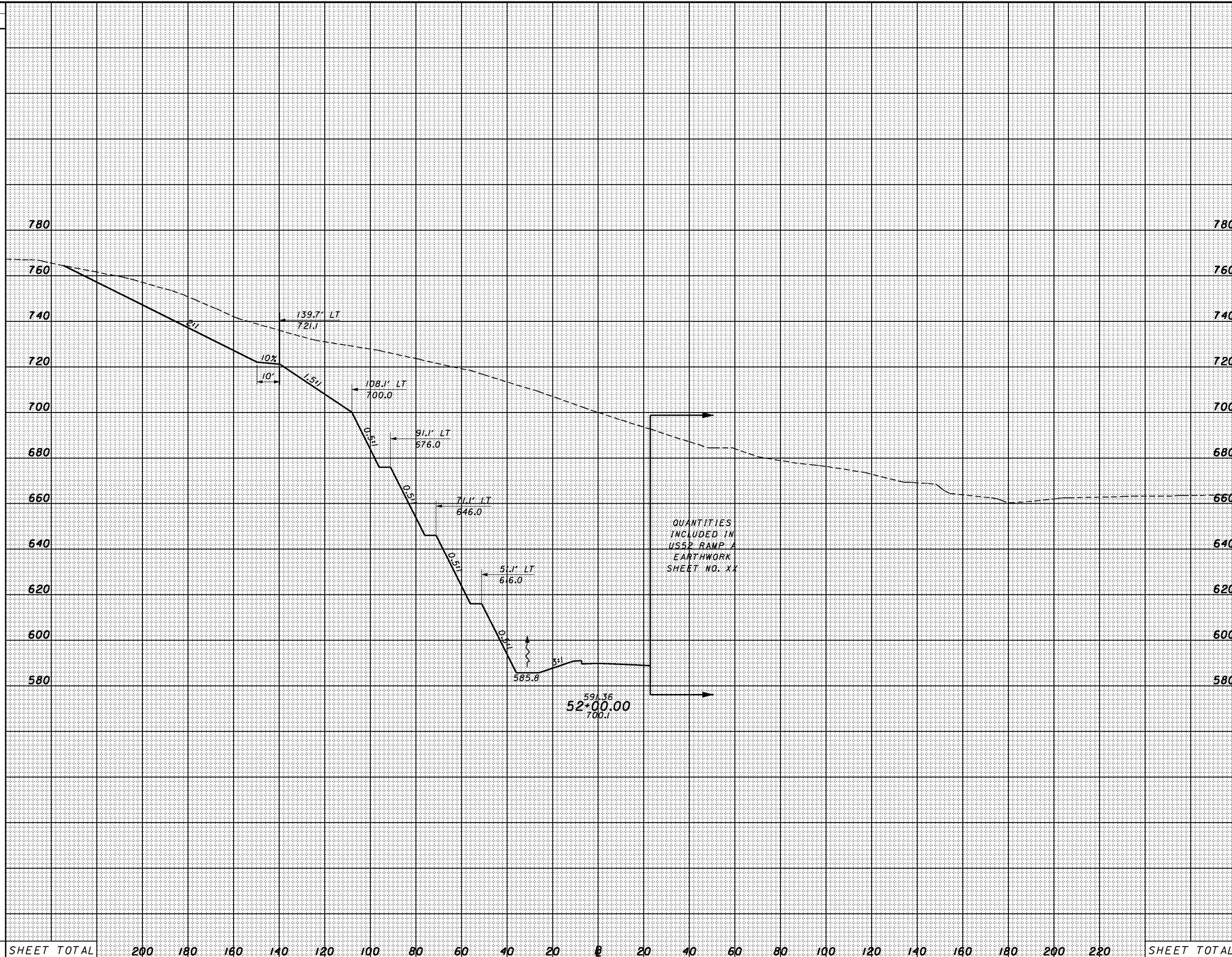
CROSS SECTIONS  
US52 RAMP B - STA. 51+50.00

SCI-823-0.00

8:54:07 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s\_us52r\_ombb.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

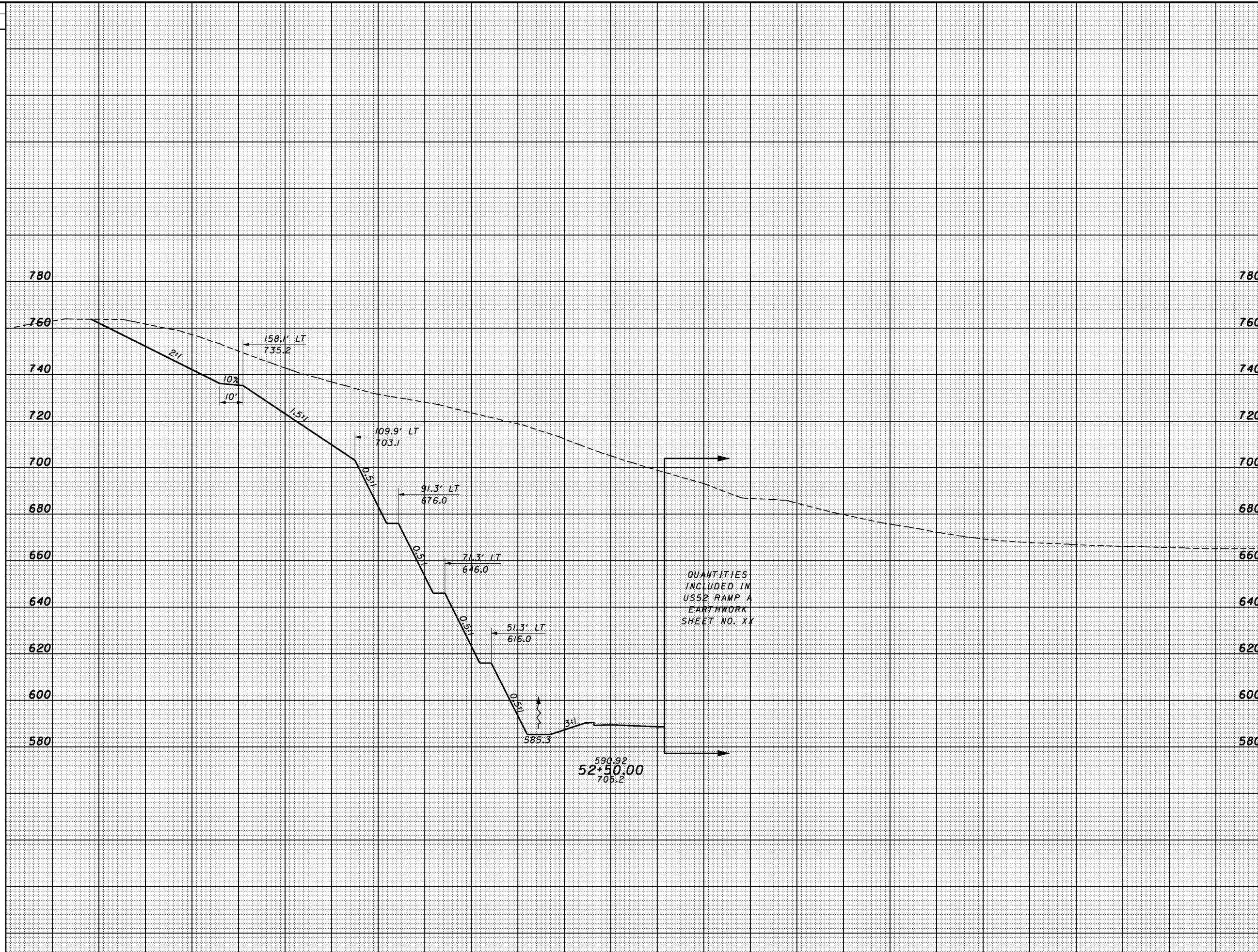
CROSS SECTIONS  
US52 RAMP B - STA. 52+00.00

SCI-823-0.00

8:54:08 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\T13668x\_us52r\_ompb.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  
 US52 RAMP B - STA. 52+50.00

SCI-823-0.00

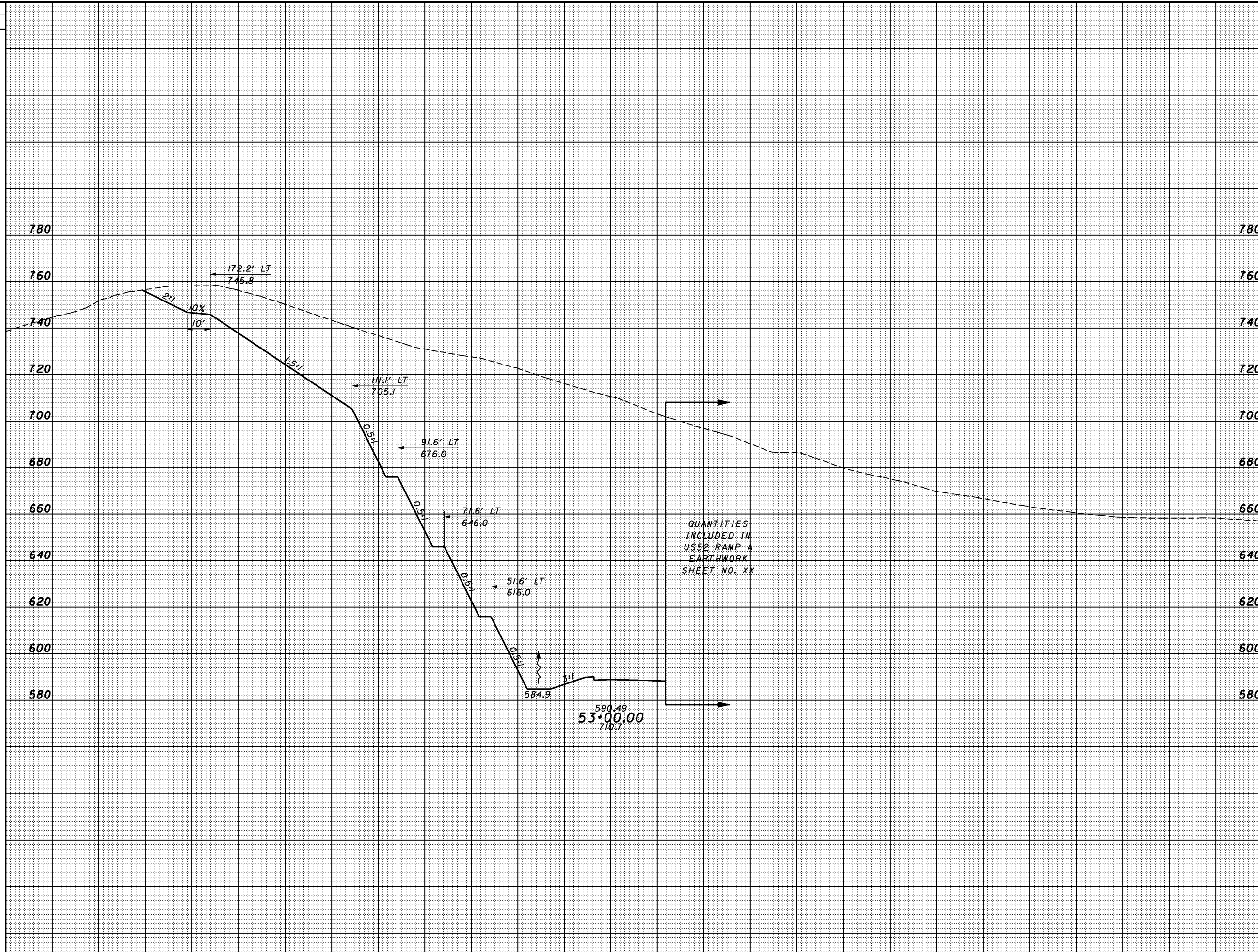
570



8:54:09 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666s\_us52r\_ombb.dgn

SEEDING  
END SO.  
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



QUANTITIES INCLUDED IN US52 RAMP A EARTHWORK SHEET NO. XX

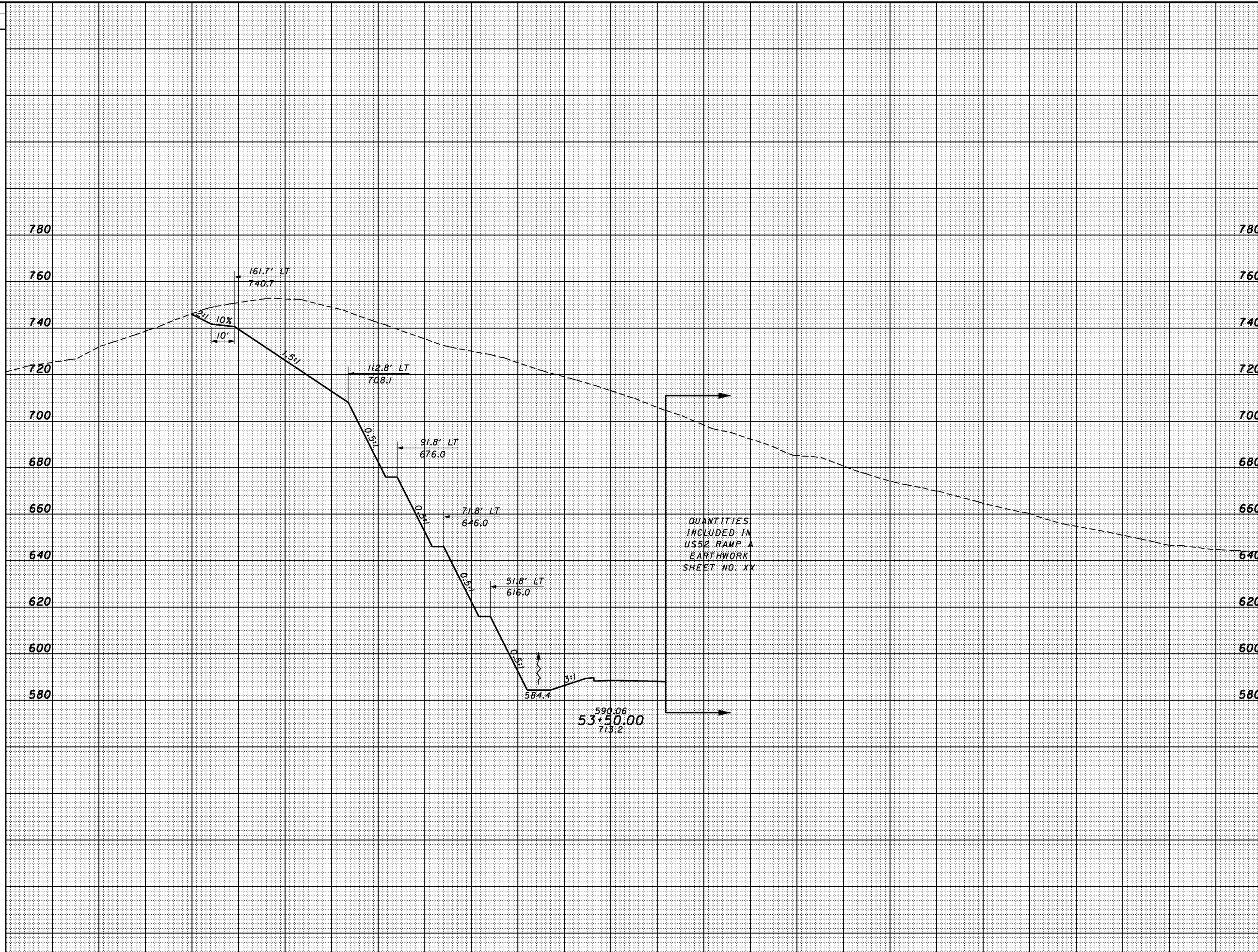
CROSS SECTIONS  
US52 RAMP B - STA. 53+00.00

SCI-823-0.00

8:54:10 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs\_us52r-ombb.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  
US52 RAMP B - STA. 53+50.00

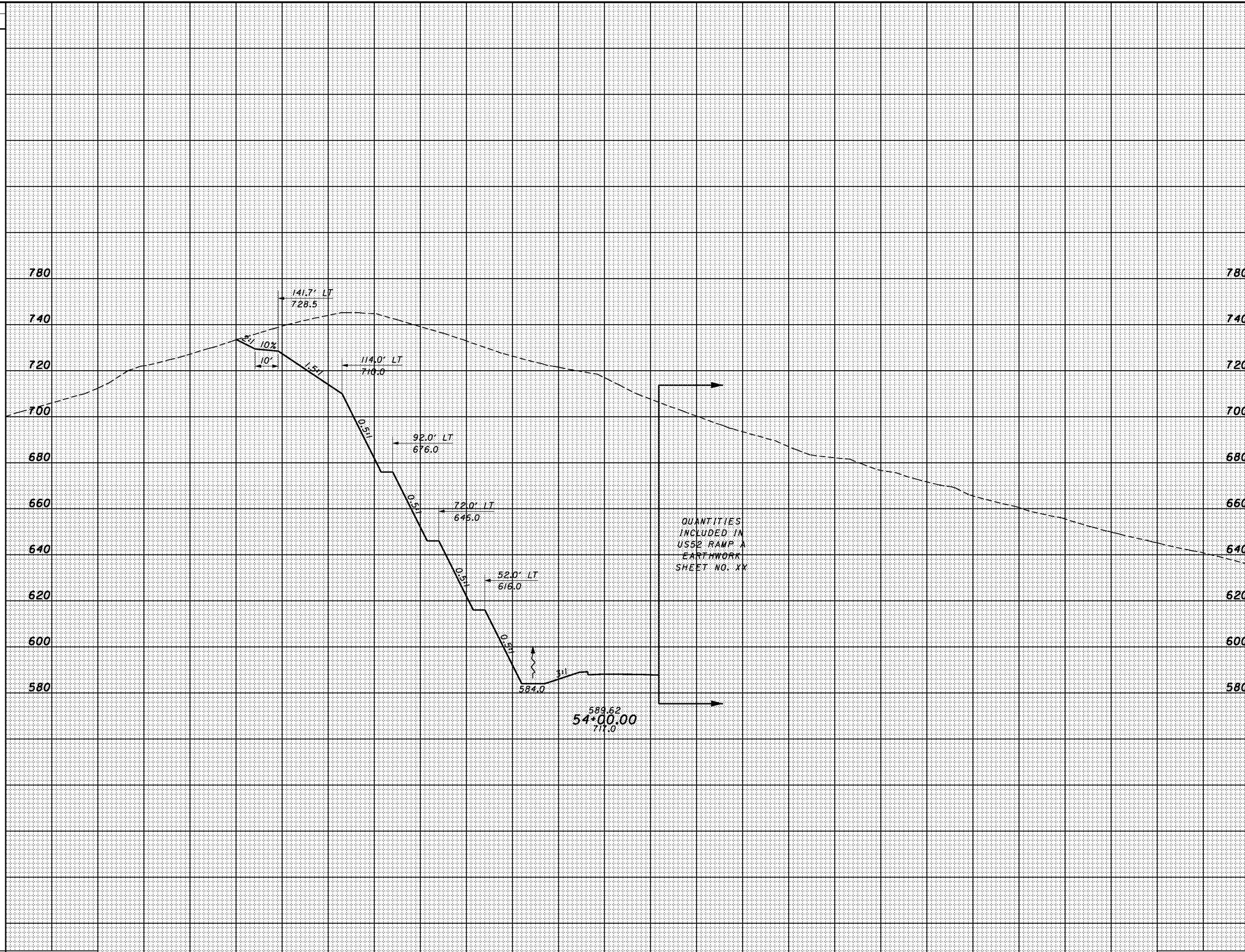
SCI-823-0.00

572

8:54:10 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s\_us52r\_ompb.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  
US52 RAMP B - STA. 54+00.00

SCI-823-0.00

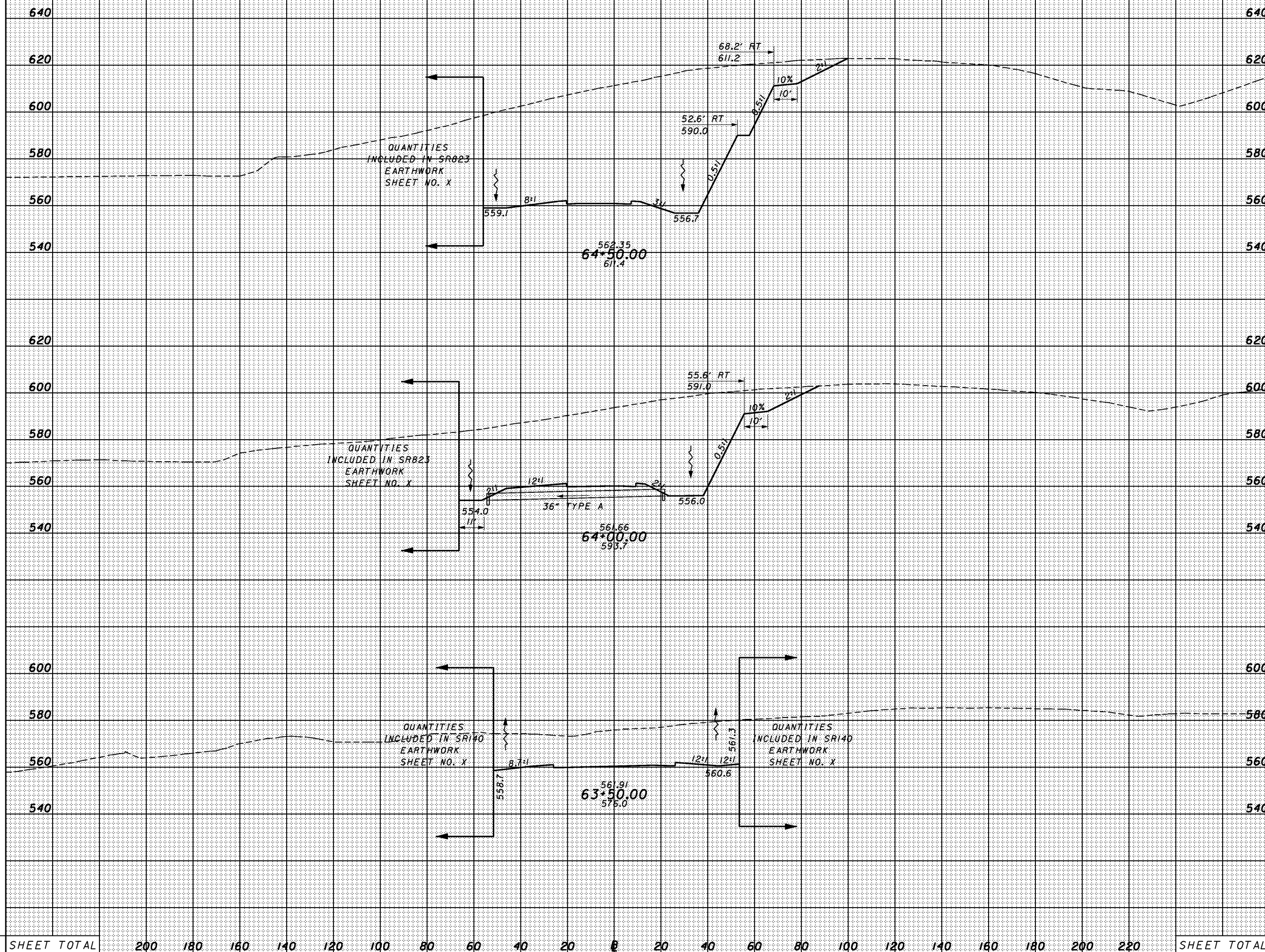
573



9:01:45 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668x\_140-amp.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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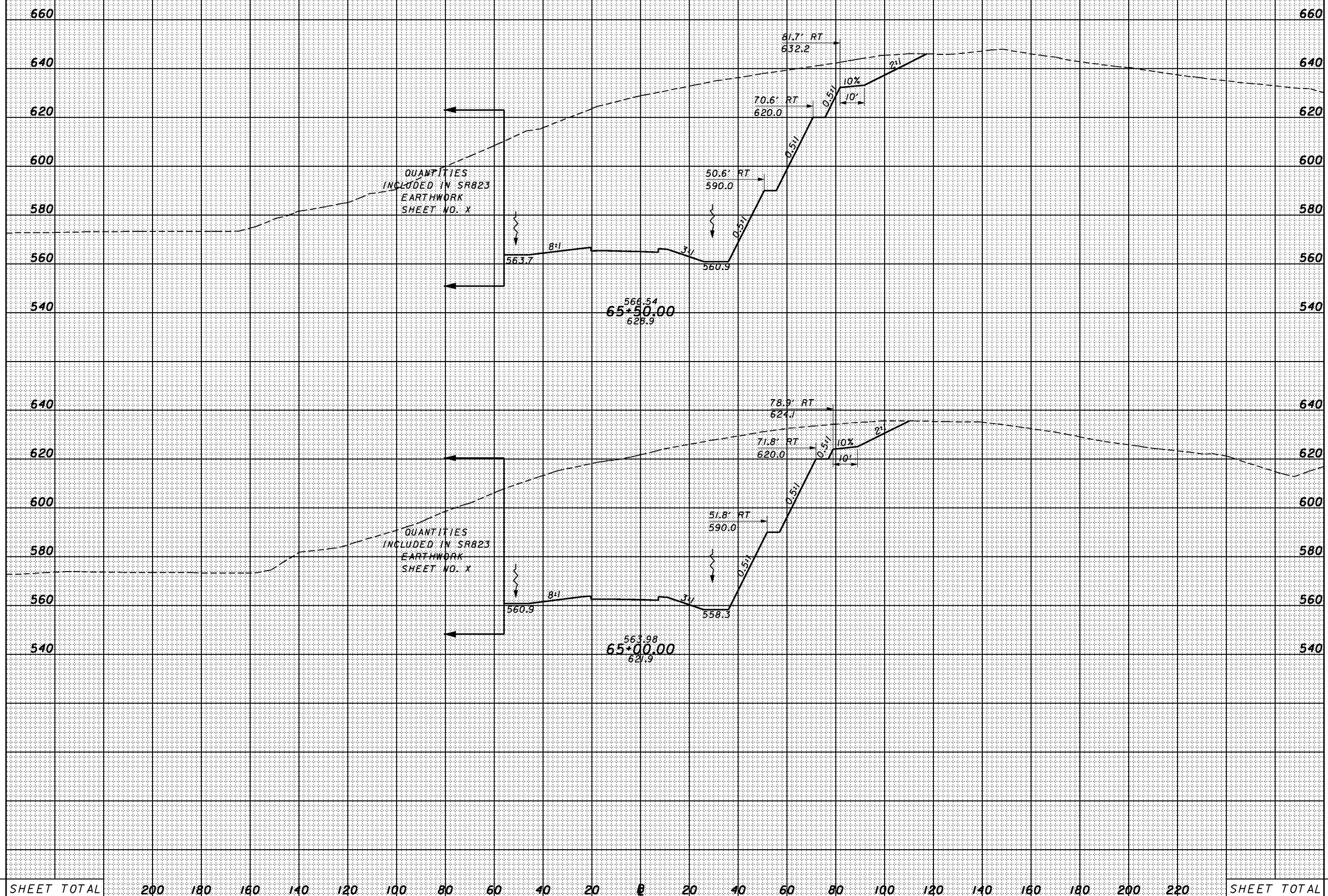
140 RAMP A - STA. 63+50.00 TO STA. 64+50.00

SCI-823-0.00

9:04 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s\_140-amp.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  
140 RAMP A - 65+00.00 TO STA. 65+50.00

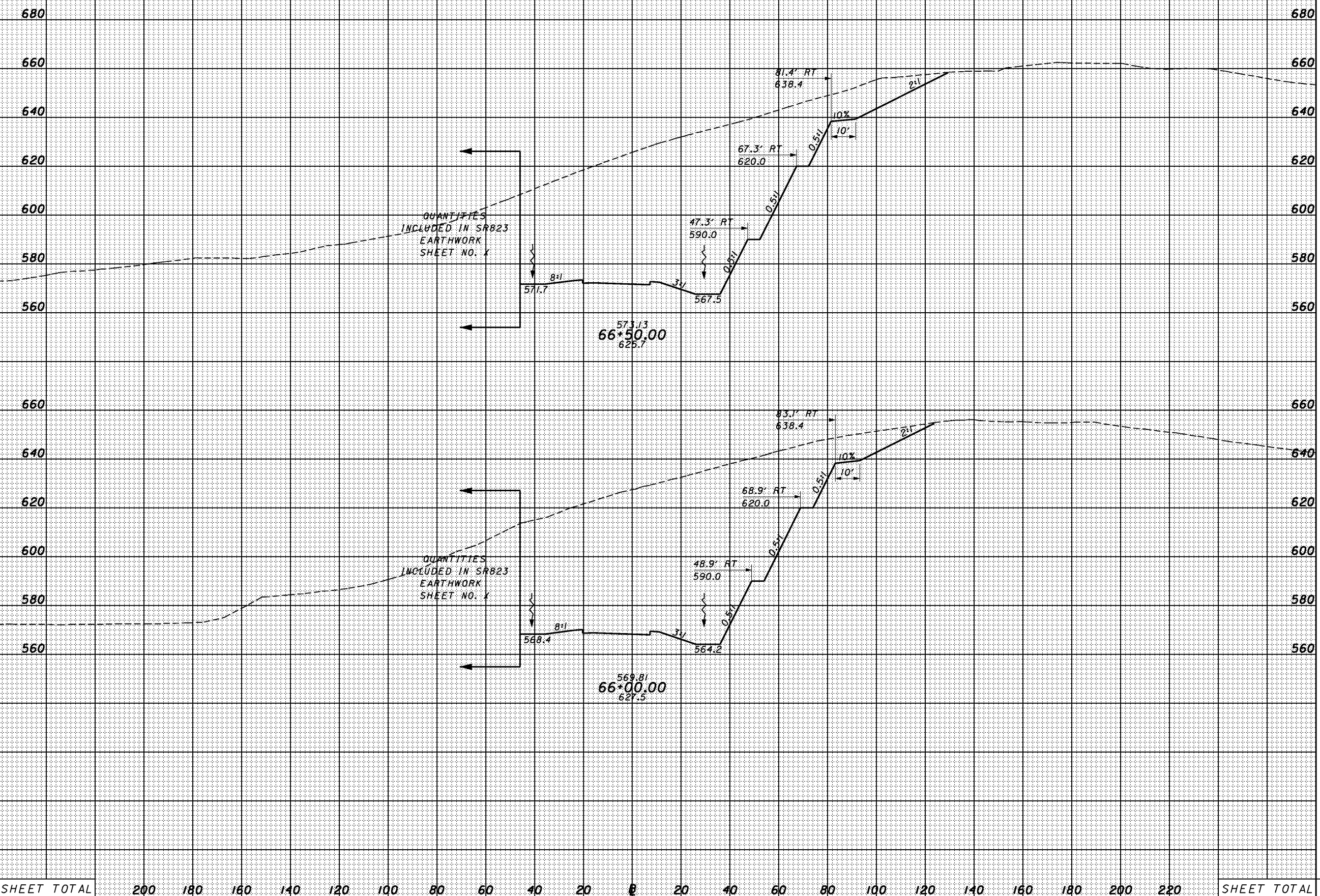
SCI-823-0.00

575

9:04:3 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s\_140-amp.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



140 RAMP A - 66+00.00 TO STA. 66+50.00

SCI-823-0.00

576

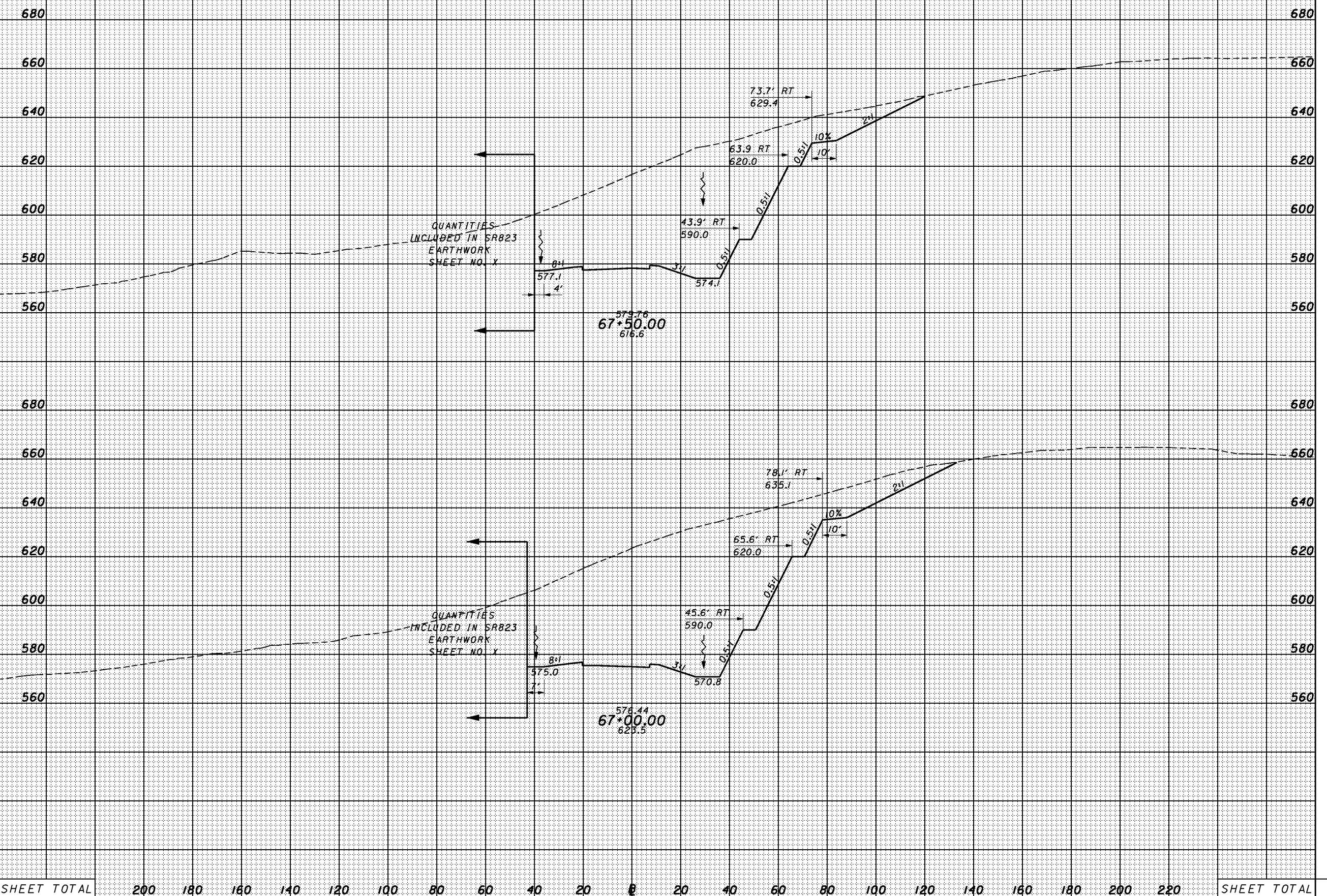
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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9:04:2 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668s\_140r-amp.a.dgn

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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140 RAMP A - 67+00.00 TO STA. 67+50.00

SCI-823-0.00

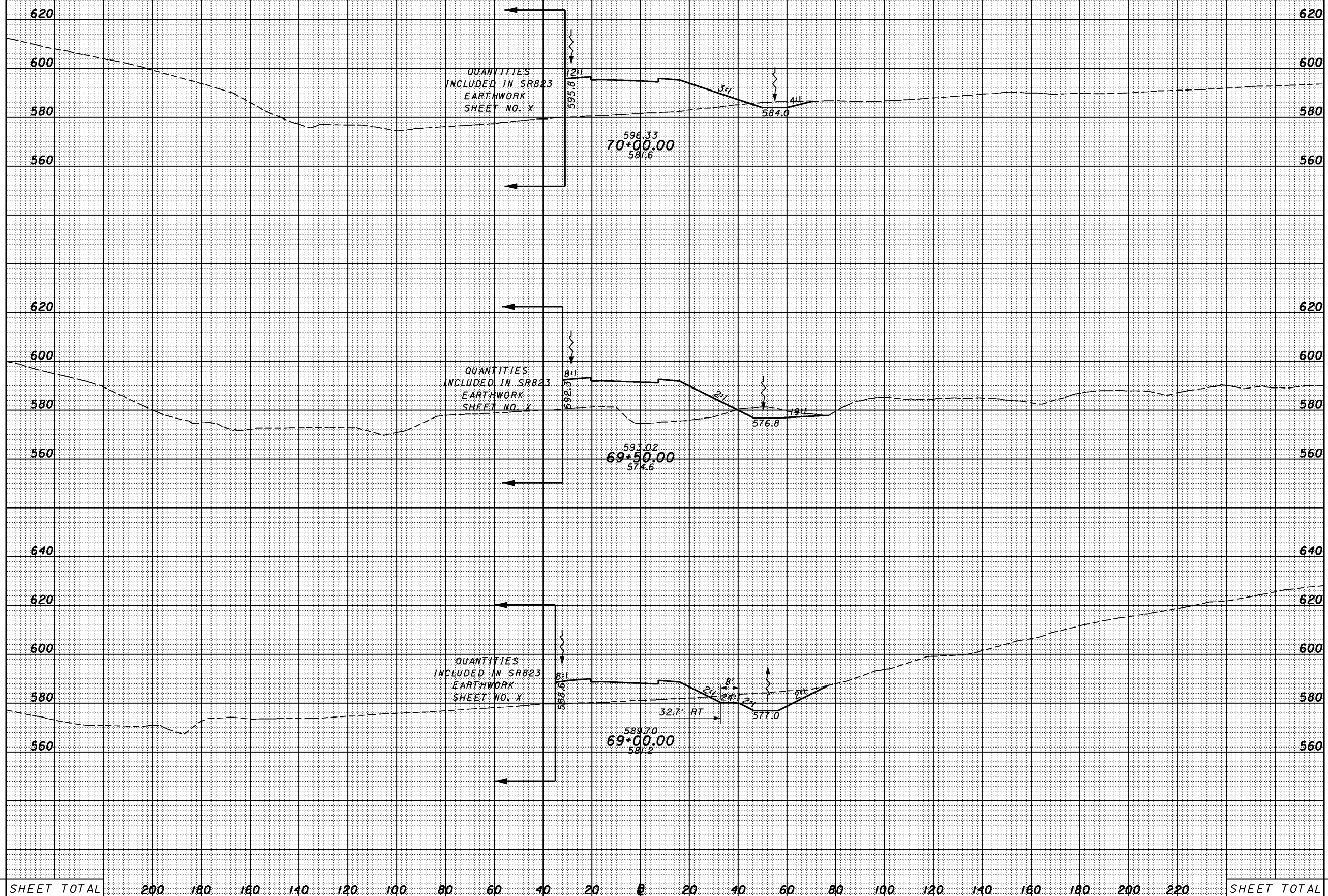
577



9:00HAM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668x\_140-amp.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  
140 RAMP A - 69+00.00 TO STA. 70+00.00

SCI-823-0.00

579



9:01:00 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x\_140-amp.dgn

SEEDING	
END WIDTH	SO. YDS.

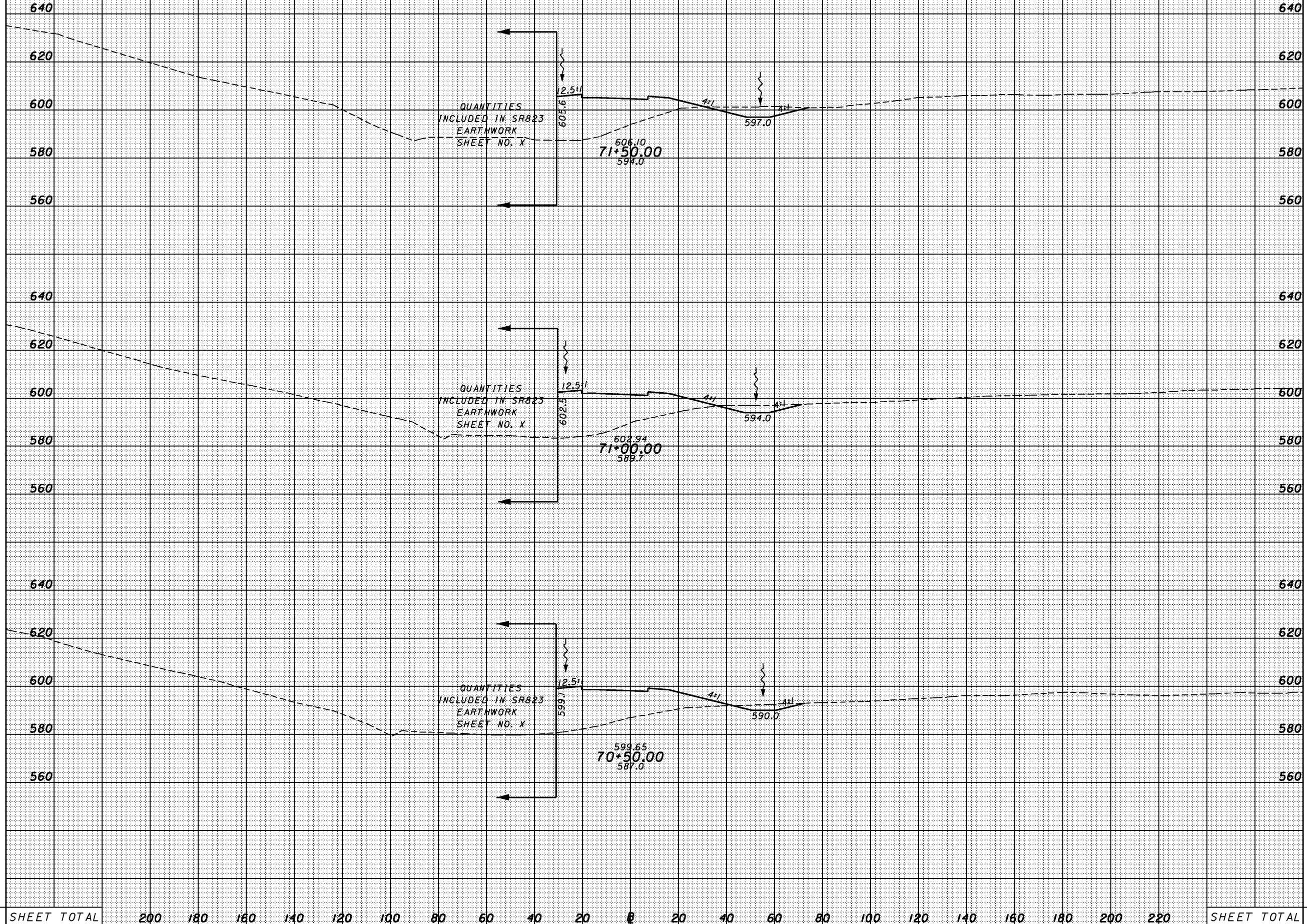
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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140 RAMP A - 70+50.00 TO STA. 71+50.00

SCI-823-0.00

580

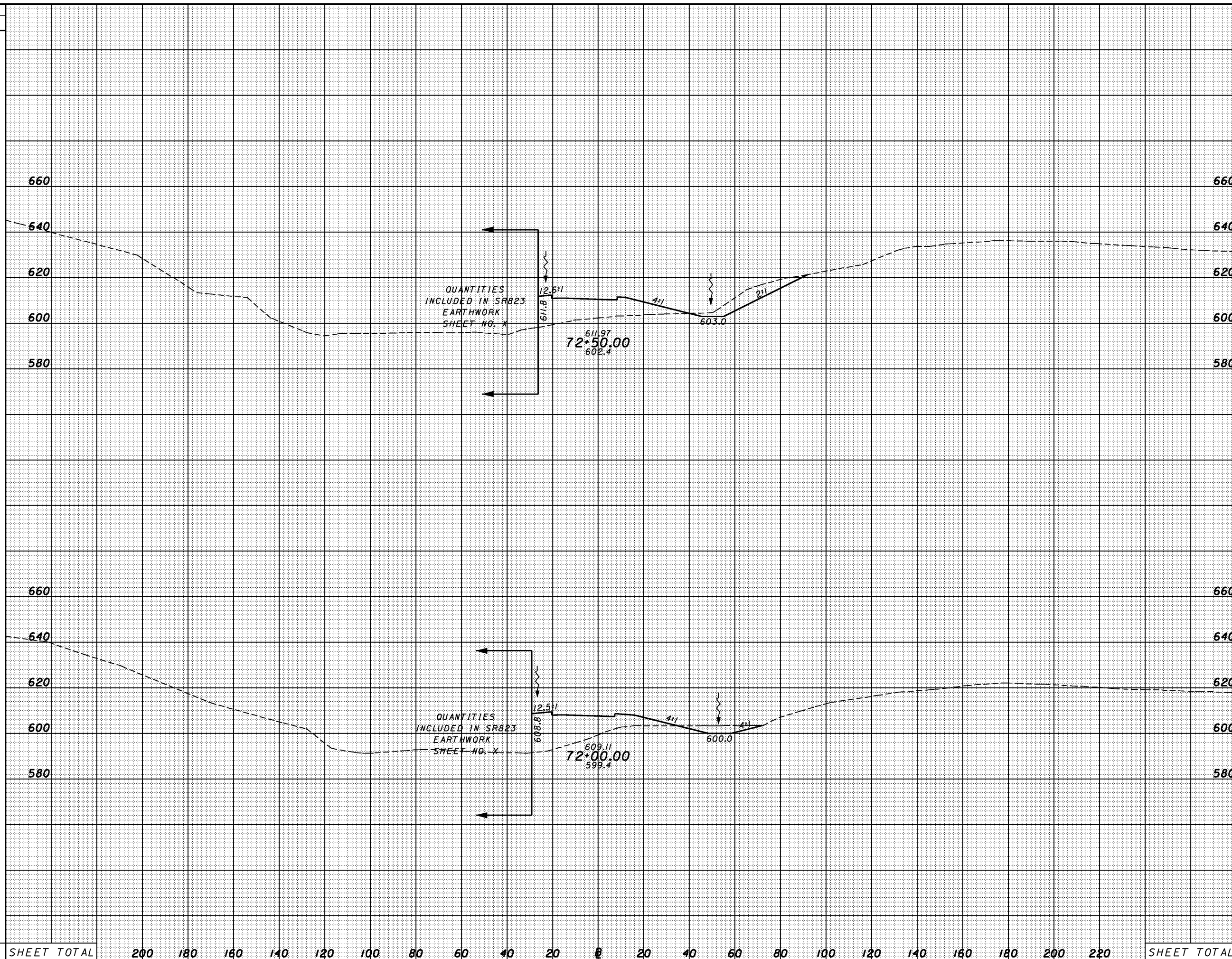


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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9:04:09 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713666xs\_140r-amp.a.dgn

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  
140 RAMP A - 72+00.00 TO STA. 72+50.00

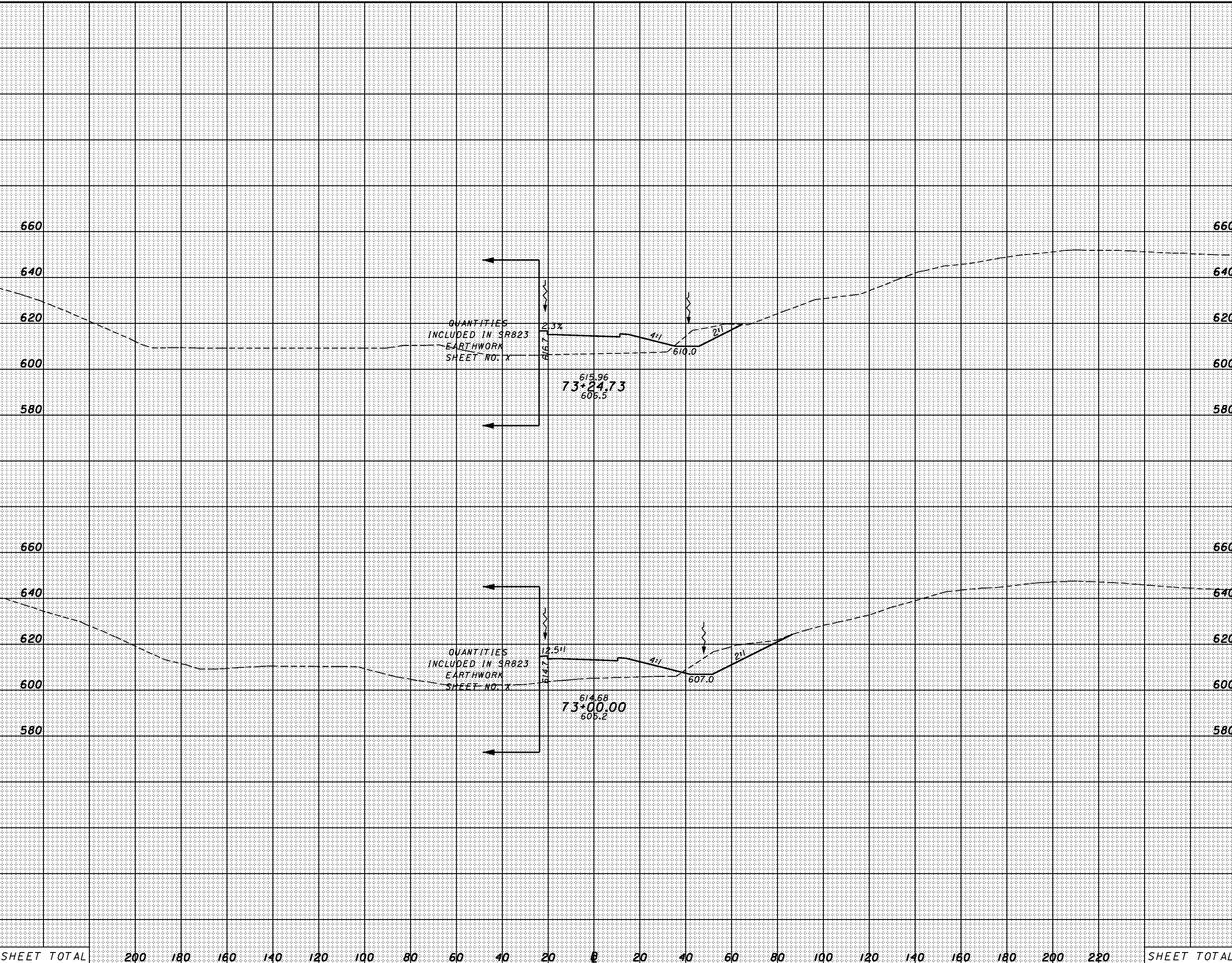
SCI-823-0.00

581

9:00:08 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x\_140-amp.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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140 RAMP A - 73+00.00 TO STA. 73+24.73

SCI-823-0.00

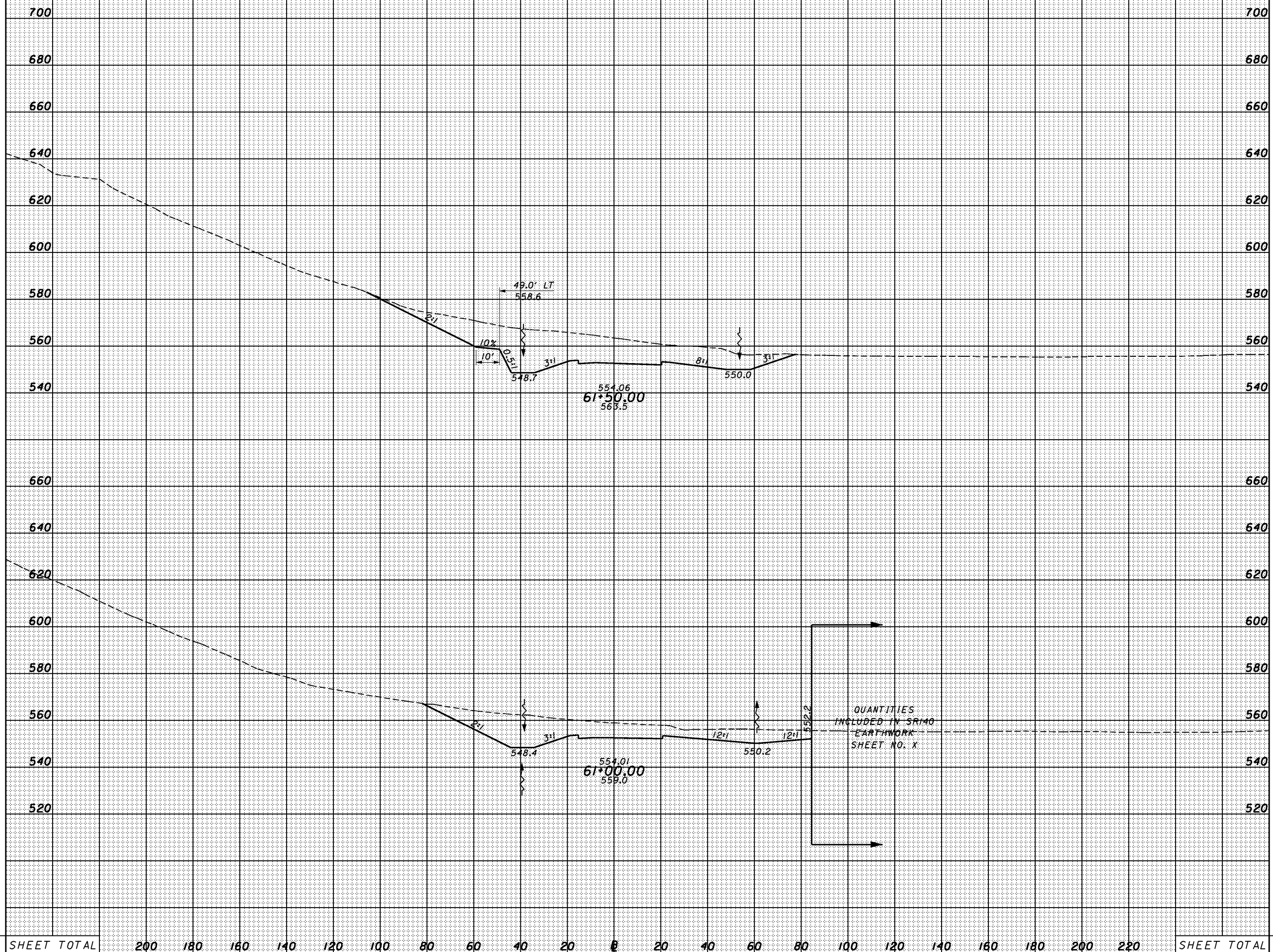
582



9:01:17 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668x\_140r-ampb.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  
140 RAMP B - STA. 61+00.00 TO STA. 61+50.00

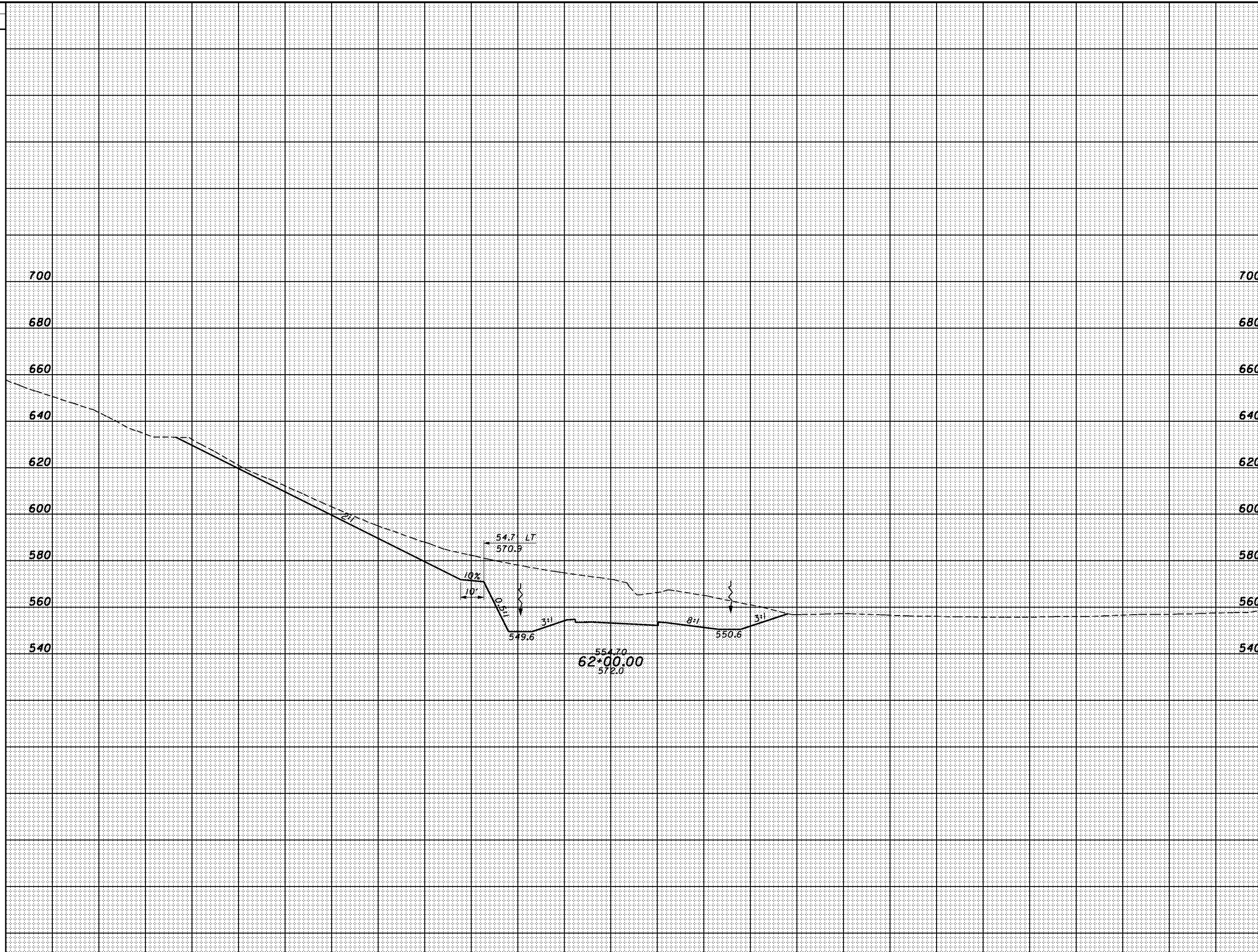
SCI-823-0.00

583

9:01:18 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs\_140r-ampb.dgn

SEEDING  
END SO.  
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



SEEDING	END WIDTH	SO. YDS.	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

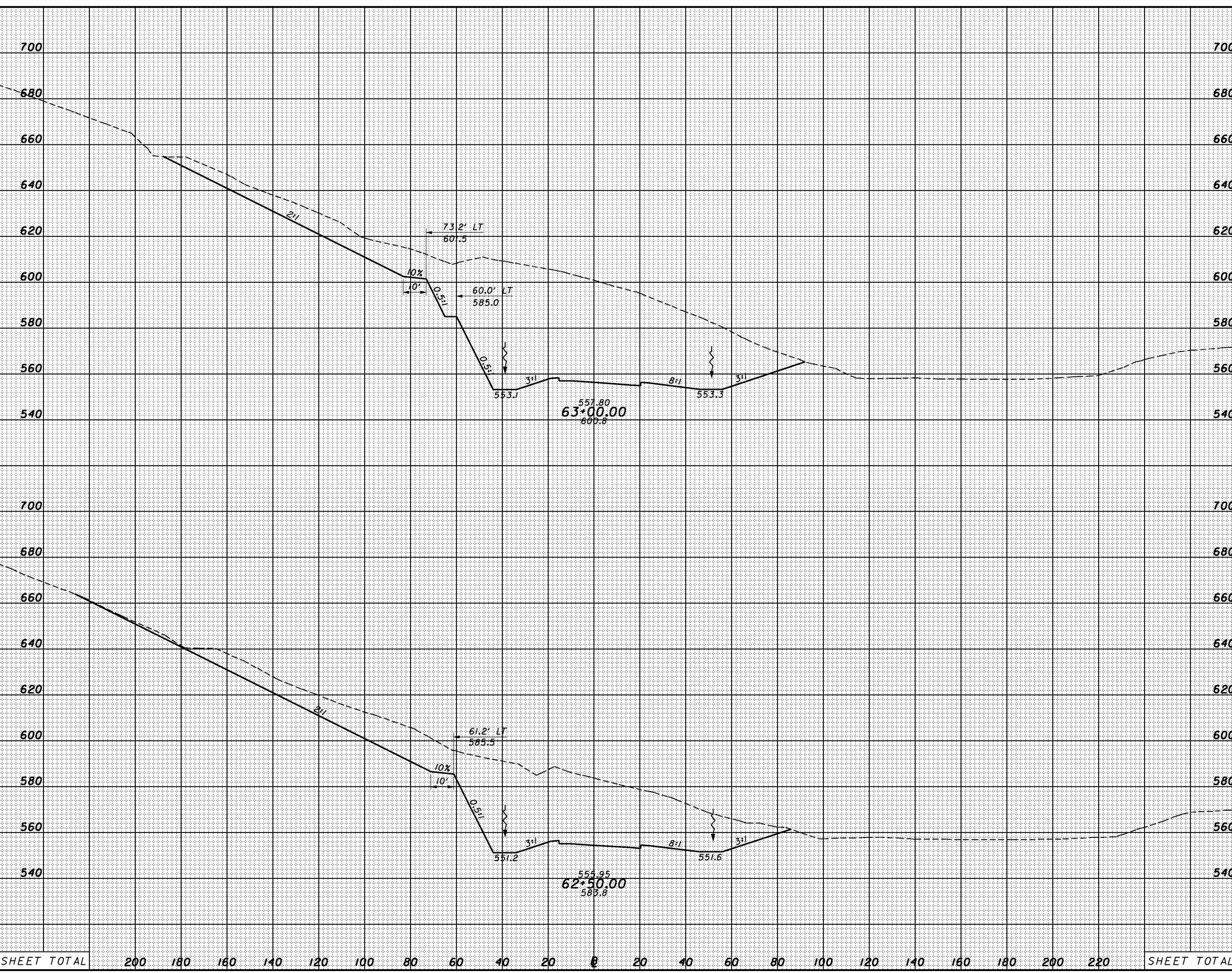
CROSS SECTIONS  
140 RAMP B - STA. 62+00.00

SCI-823-0.00

584

9:01:49 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668x\_140r-ampb.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**  
**140 RAMP B - STA. 62+50.00 TO STA. 63+00.00**

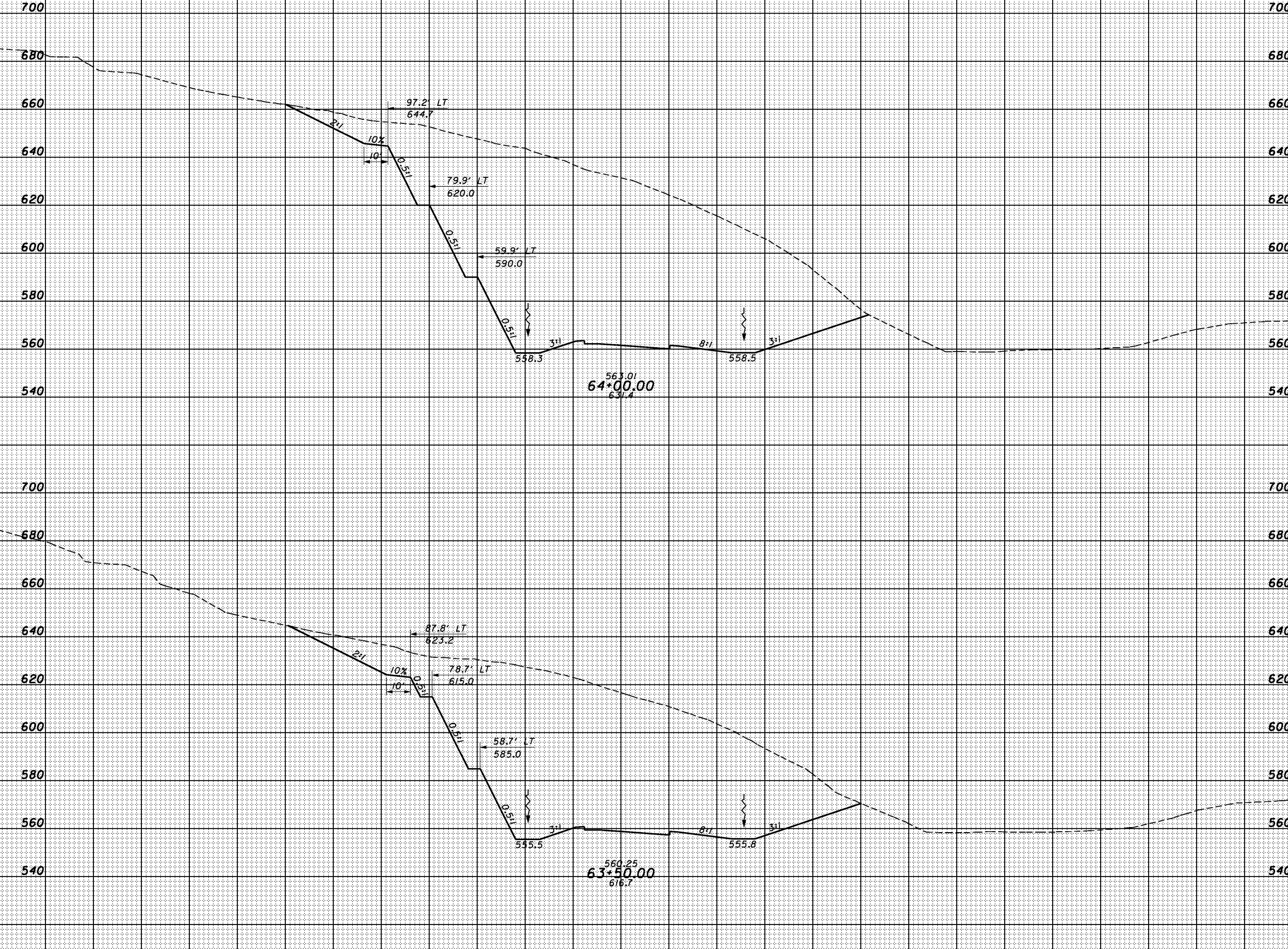
**SCI-823-0.00**



9:01:20 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\T13668s\_140r-ampb.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  
140 RAMP B - STA. 63+50.00 TO STA. 64+00.00

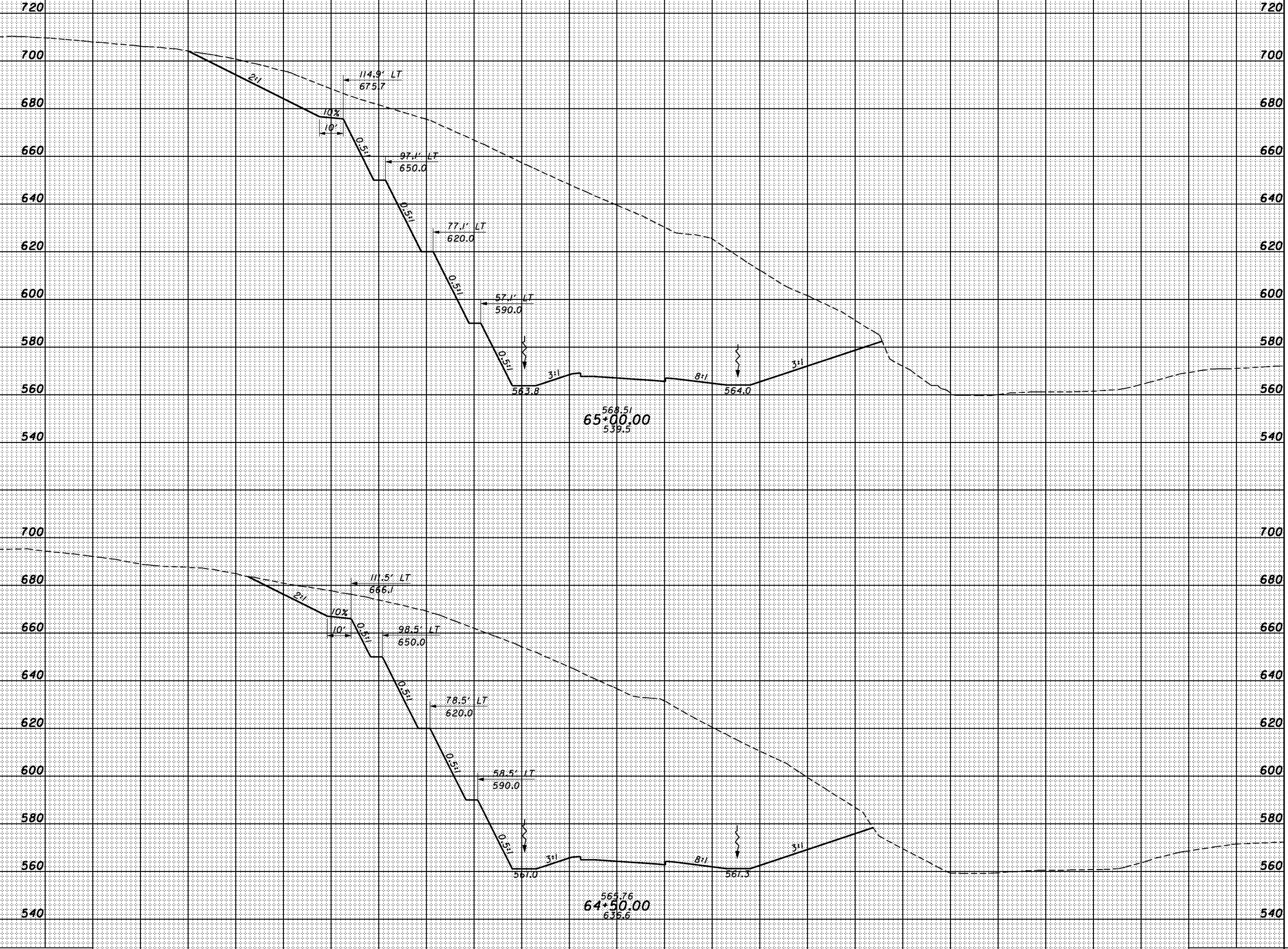
SCI-823-0.00

586

9:01:21 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13668x\_140r-ampb.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  
140 RAMP B - STA. 64+50.00 TO STA. 65+00.00

SCI-823-0.00

9:01:22 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13668s\_140-ampb.dgn

SEEDING	
END WIDTH	SO. YDS.

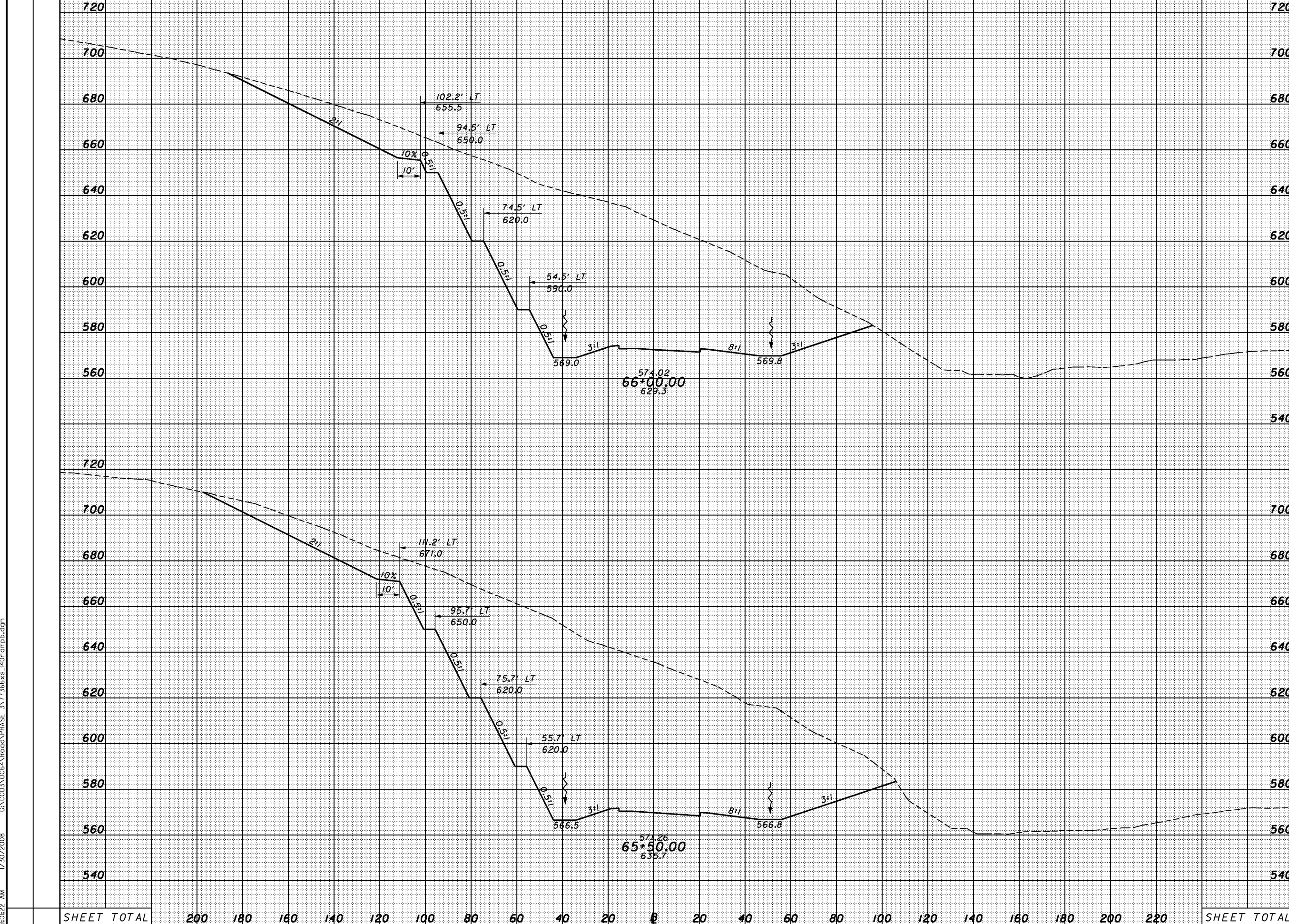
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
140 RAMP B - STA. 65+50.00 TO STA. 66+00.00

SCI-823-0.00

588



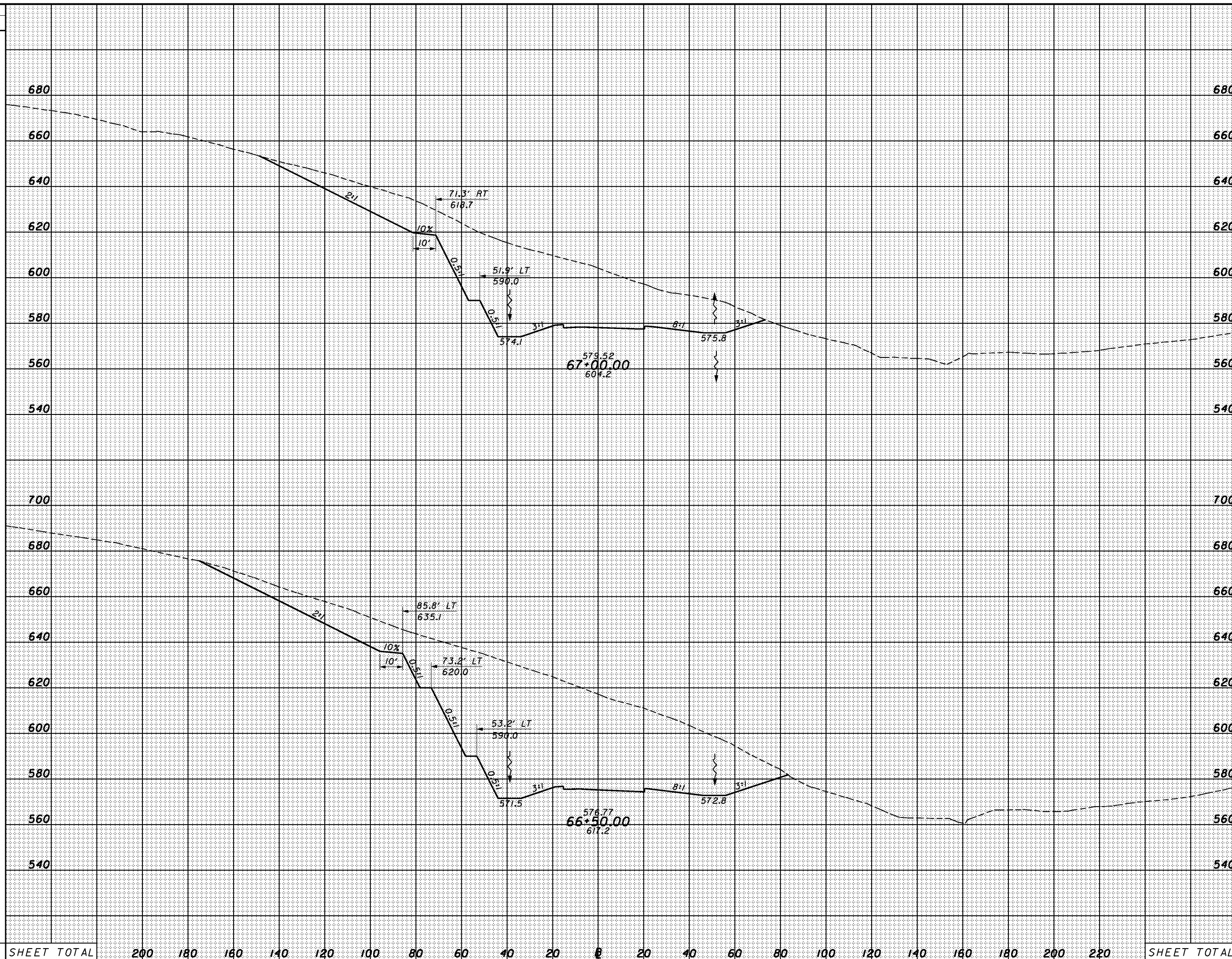
720	720																						
700	700																						
680	680																						
660	660																						
640	640																						
620	620																						
600	600																						
580	580																						
560	560																						
540	540																						
720	720																						
700	700																						
680	680																						
660	660																						
640	640																						
620	620																						
600	600																						
580	580																						
560	560																						
540	540																						
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



9:01:23 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\T13668s\_140r-ampb.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  
140 RAMP B - STA. 66+50.00 TO STA. 67+00.00

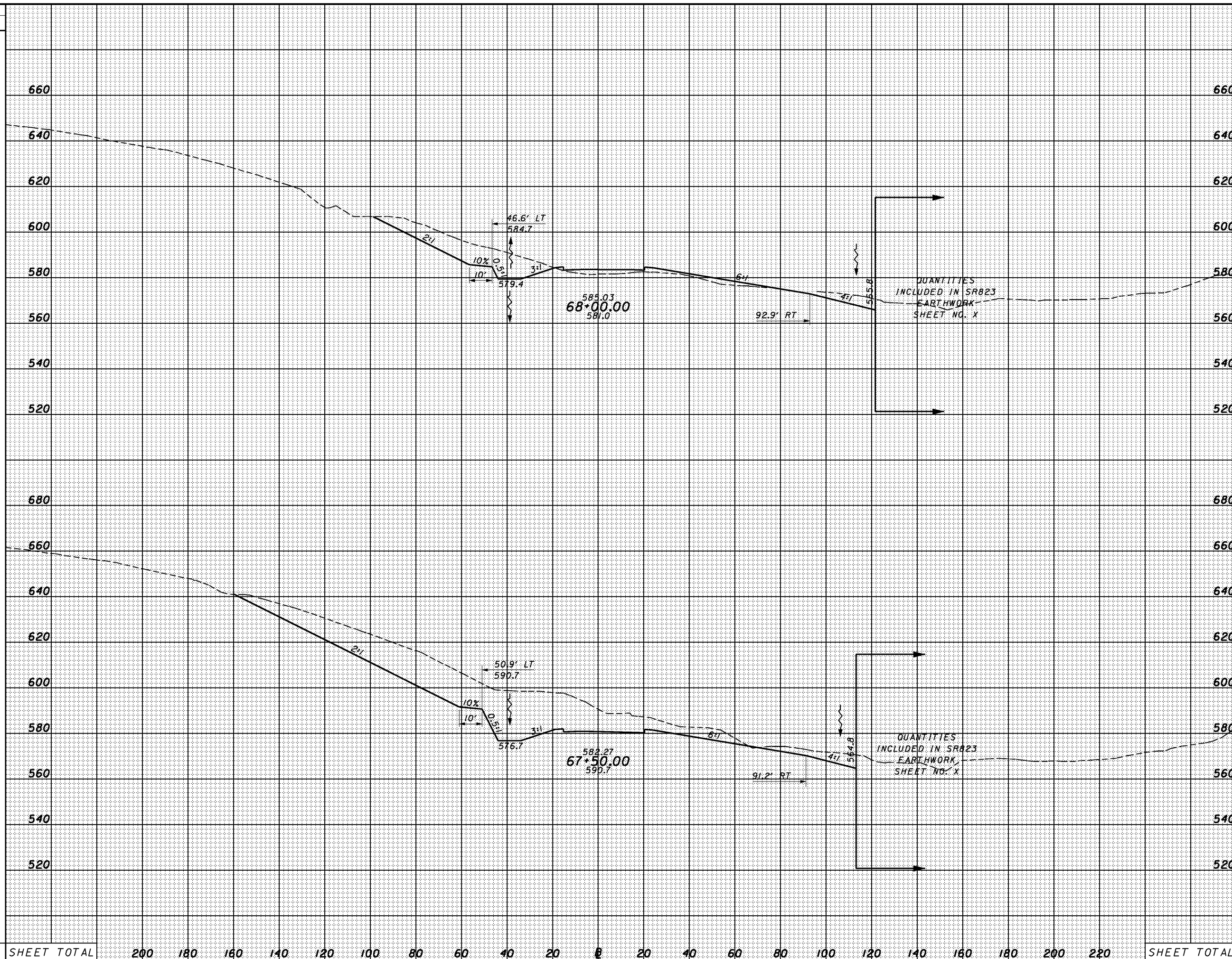
SCI-823-0.00

589

9:01:23 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668s\_140r-ampb.dgn

SEEDING  
END SO.  
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS  
140 RAMP B - STA. 67+50.00 TO STA. 68+00.00

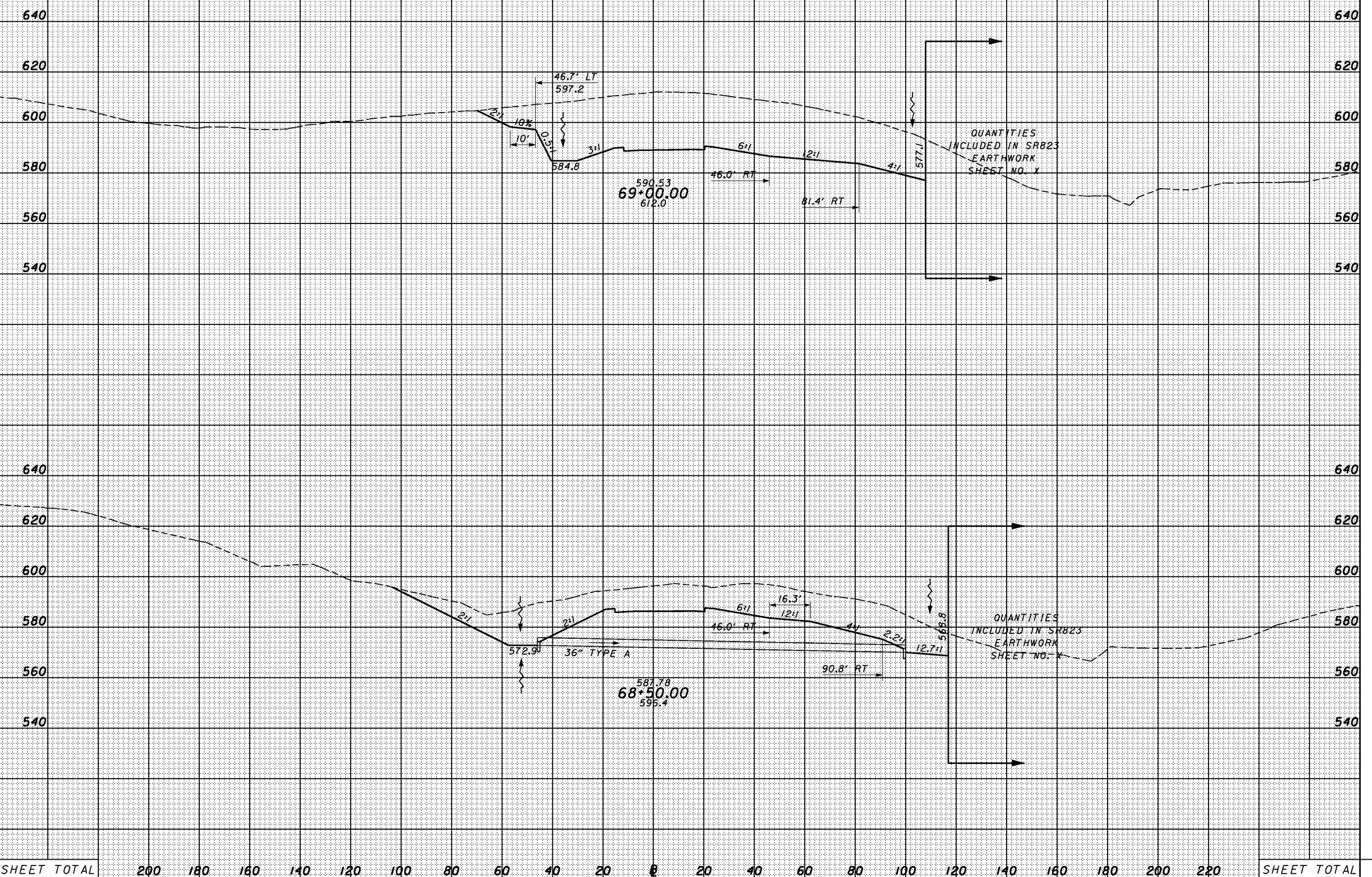
SCI-823-0.00

590

9:01:25 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668s\_140-ampb.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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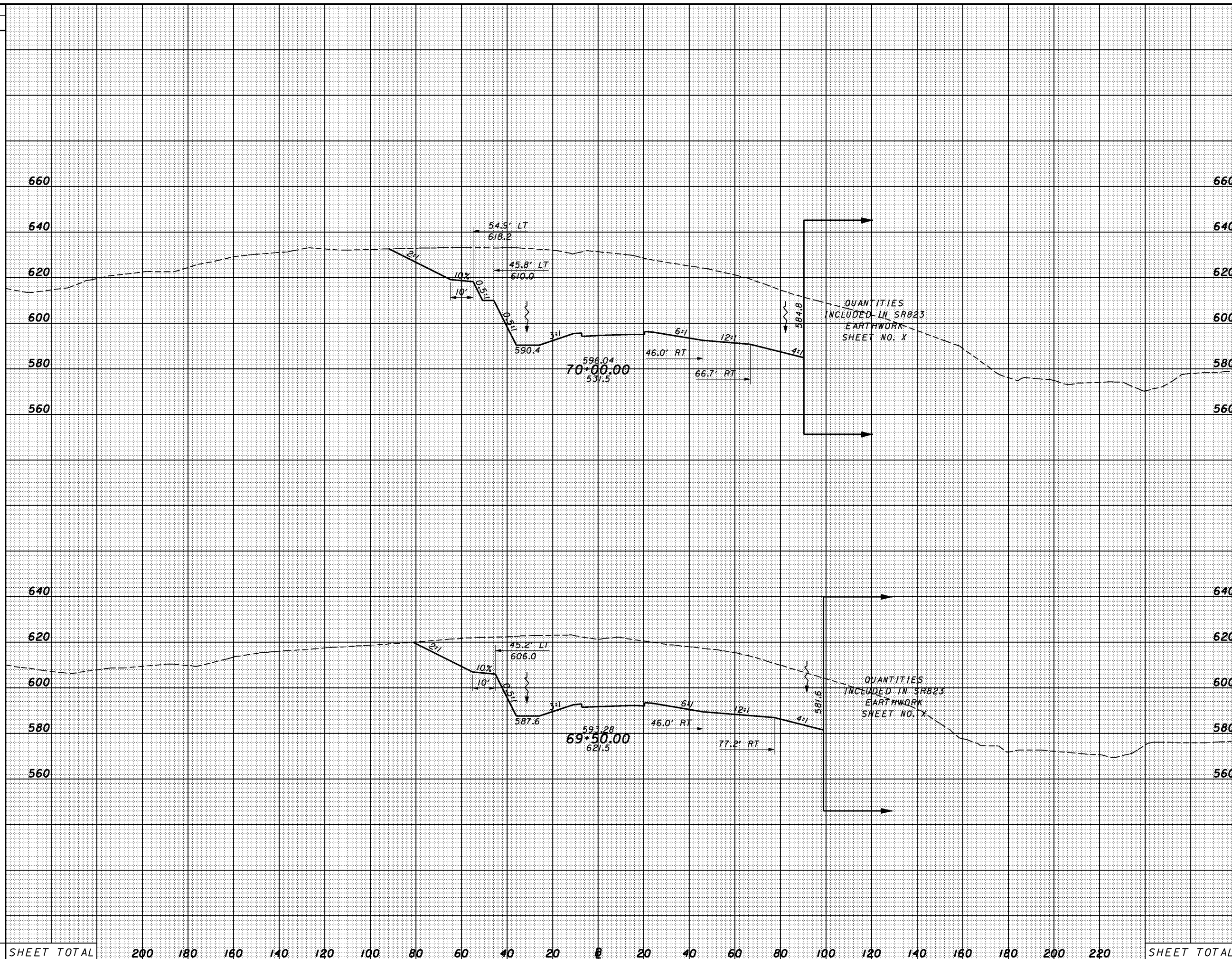
SCI-823-0.00  
 CROSS SECTIONS  
 140 RAMP B - STA. 68+50.00 TO STA. 69+00.00  
 591



9:01:26 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s\_140-ampb.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

140 RAMP B - STA. 69+50.00 TO STA. 70+00.00

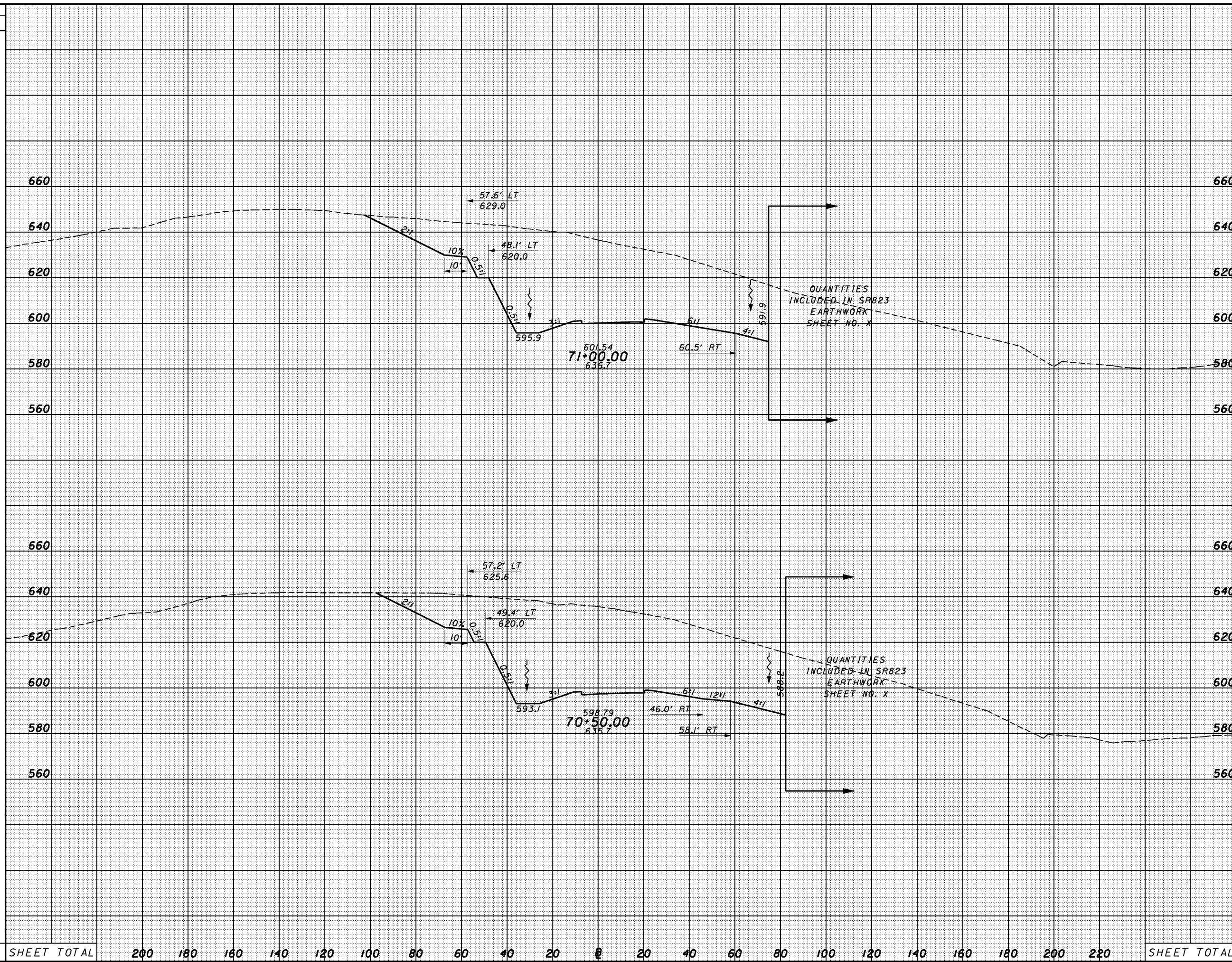
SCI-823-0.00

592

9:01:27 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\713668s\_140r-ampb.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

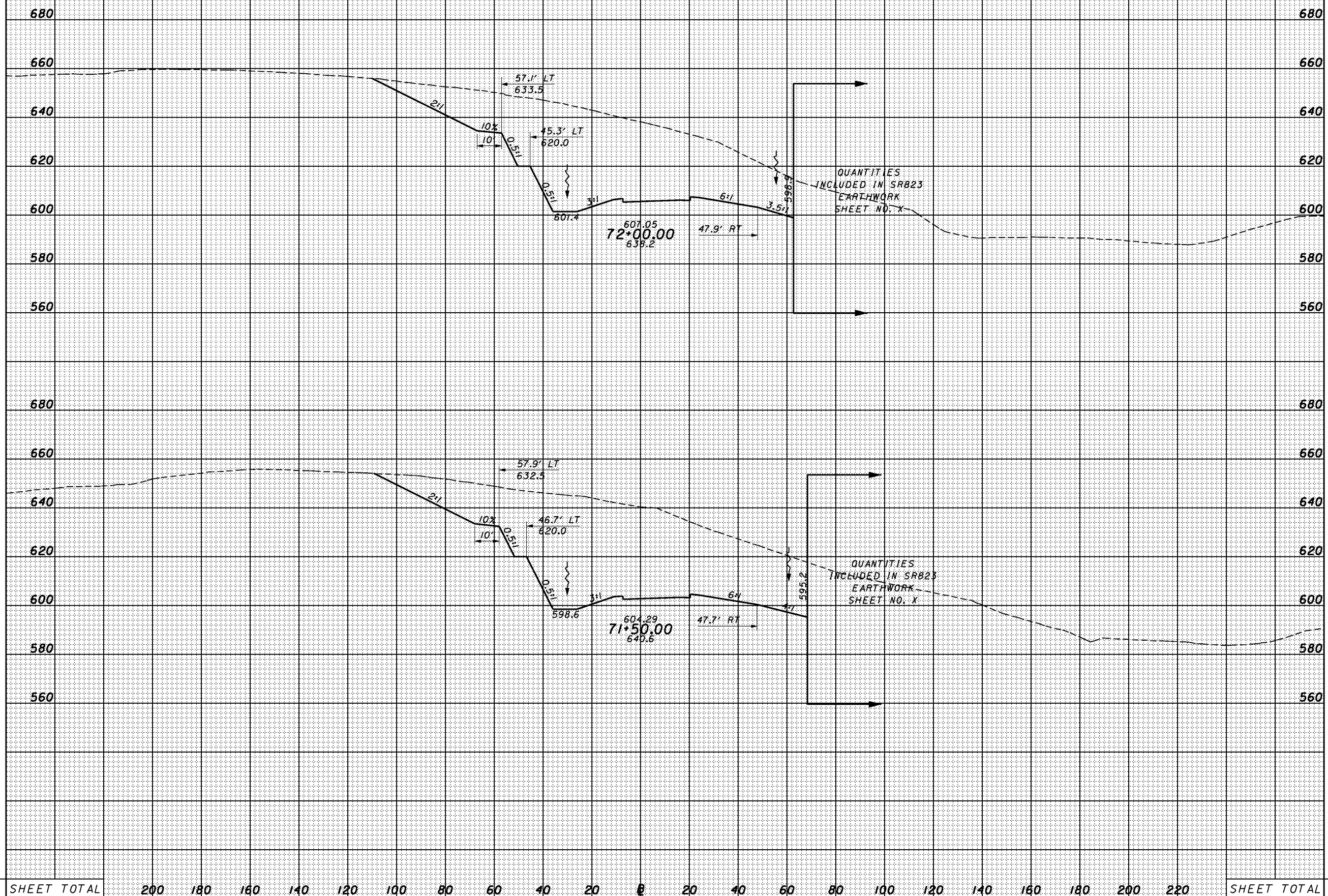
CROSS SECTIONS  
140 RAMP B - STA. 70+50.00 TO STA. 71+00.00

SCI-823-0.00

9:01:27 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs\_140r-ampb.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  
140 RAMP B - STA. 71+50.00 TO STA. 72+00.00

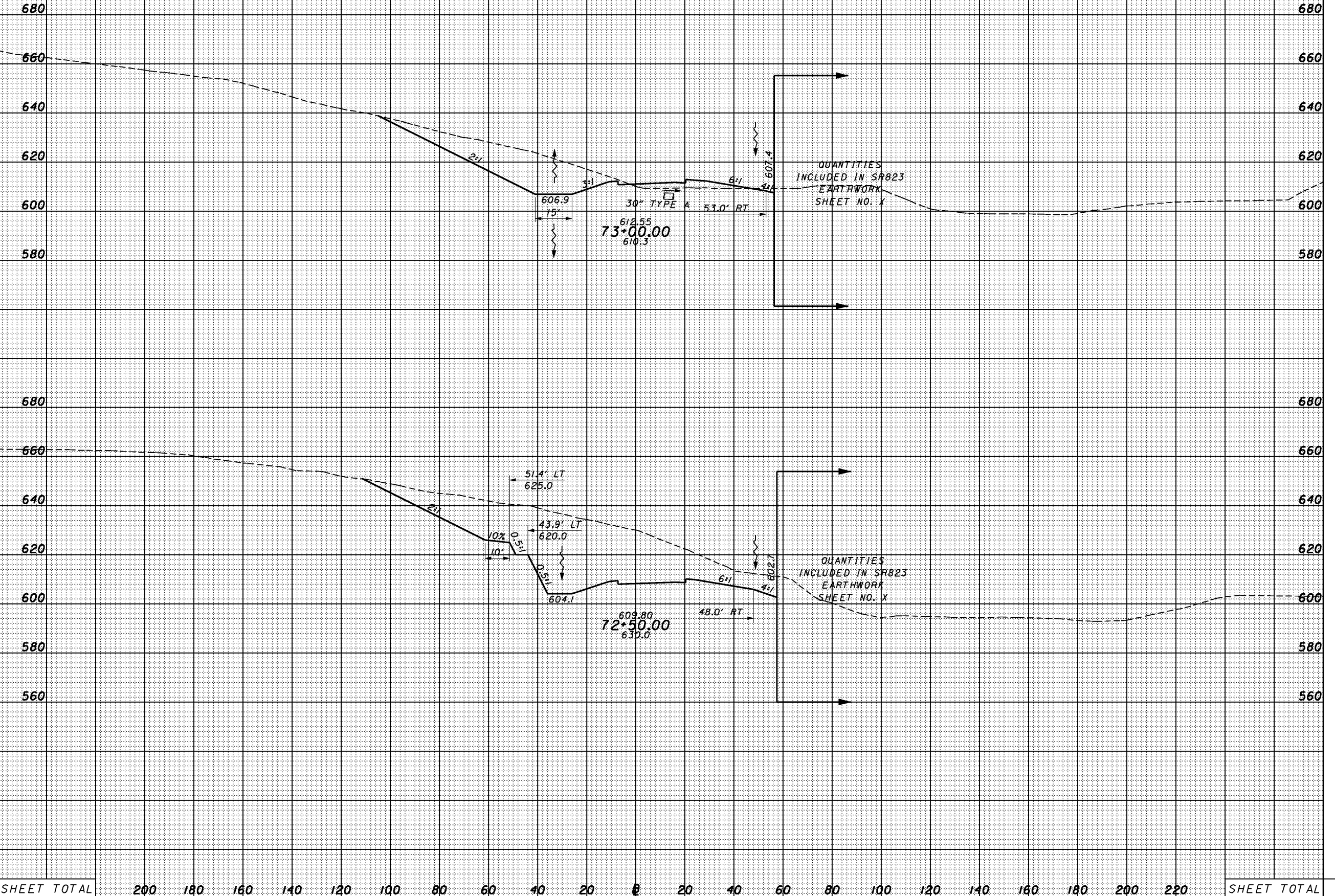
SCI-823-0.00



9:01:29 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\171366xs\_140-ampb.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



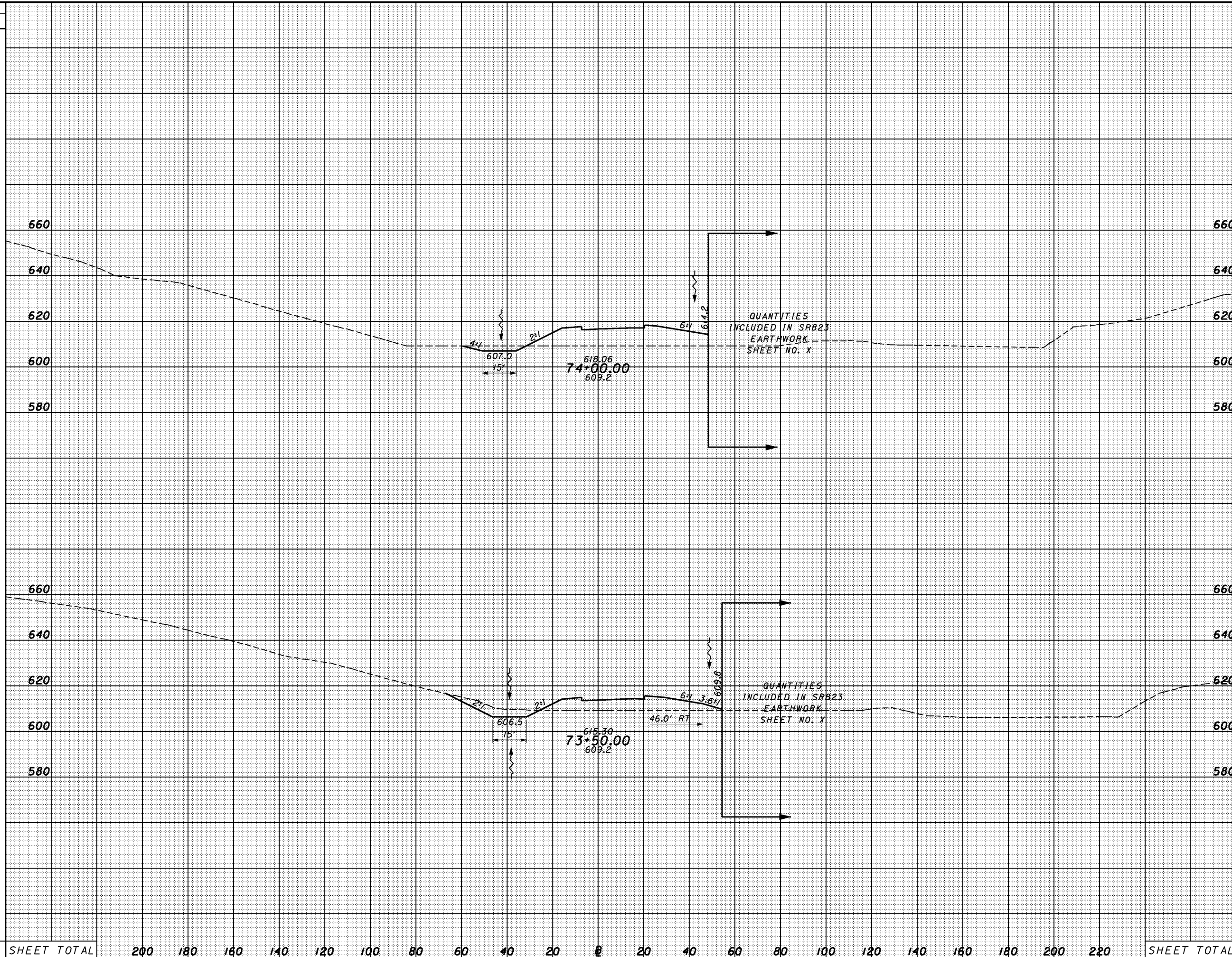
CROSS SECTIONS  
 140 RAMP B - STA. 72+50.00 TO STA. 73+00.00

SCI-823-0.00

9:01:29 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\171366xs\_140r-ampb.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

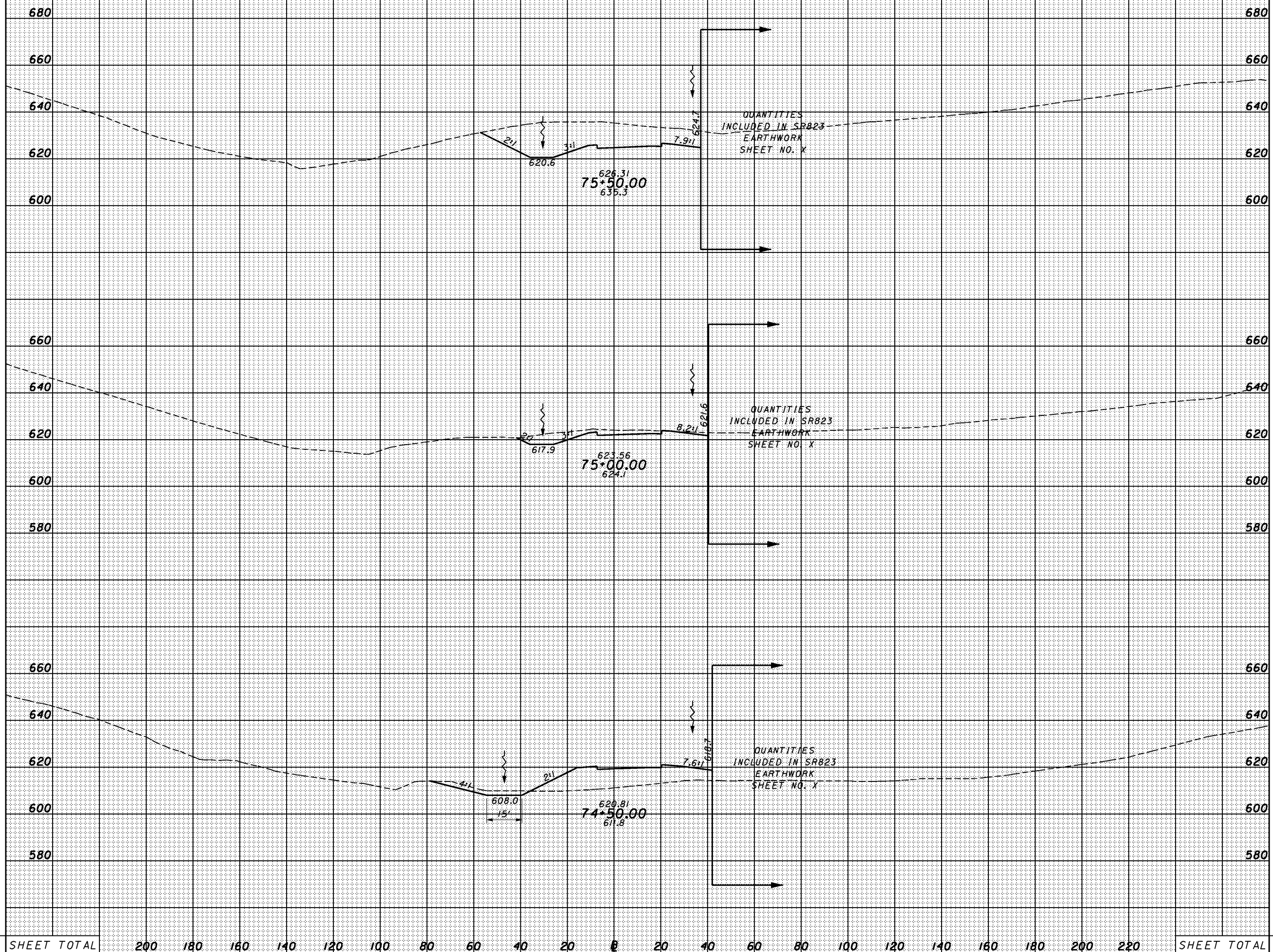
140 RAMP B - STA. 73+50.00 TO STA. 74+00.00

SCI-823-0.00

9:01:30 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s\_140r-ampb.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  
140 RAMP B - STA. 74+50.00 TO STA. 75+50.00

SCI-823-0.00

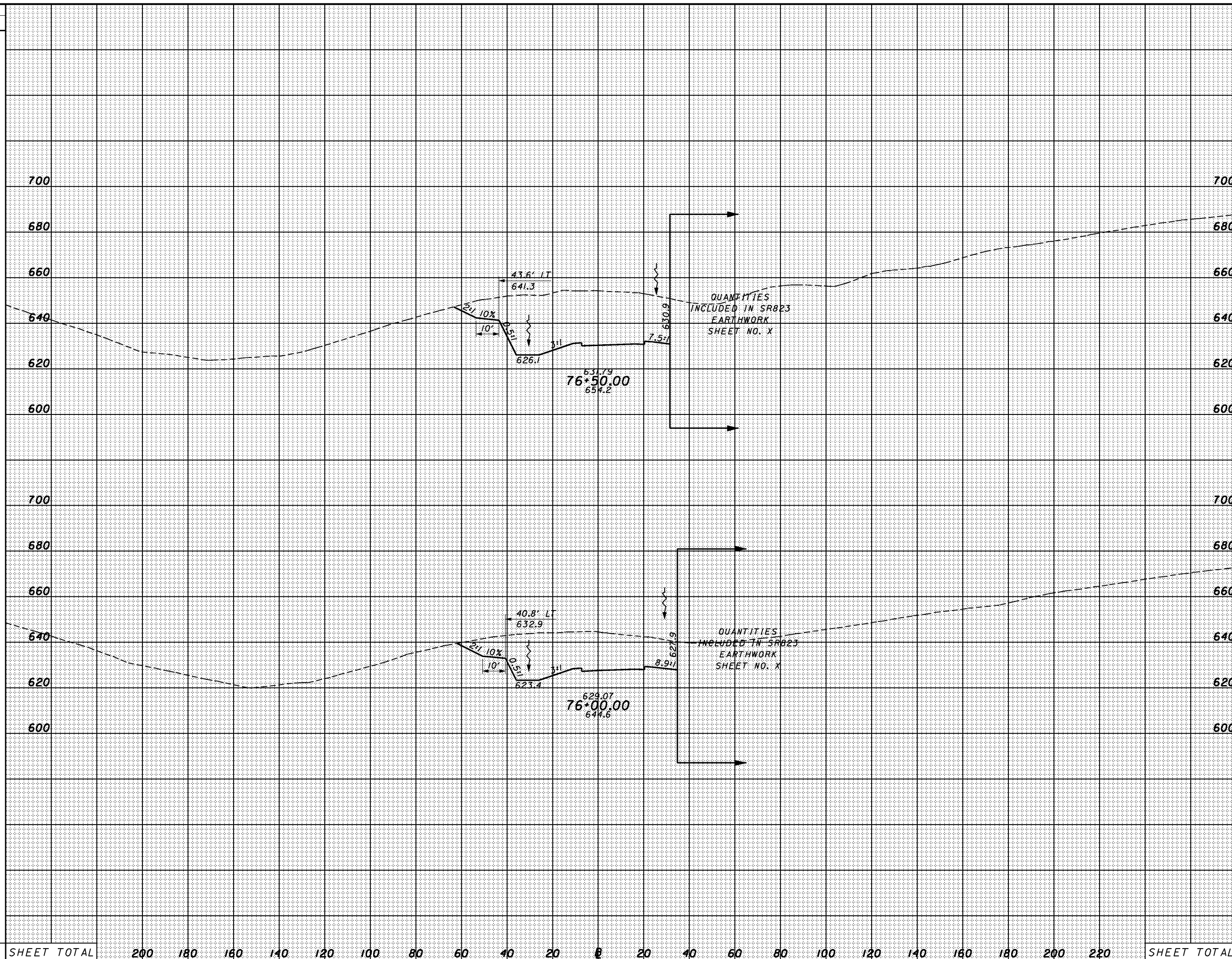
597



9:01:11 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s\_140r-ampb.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

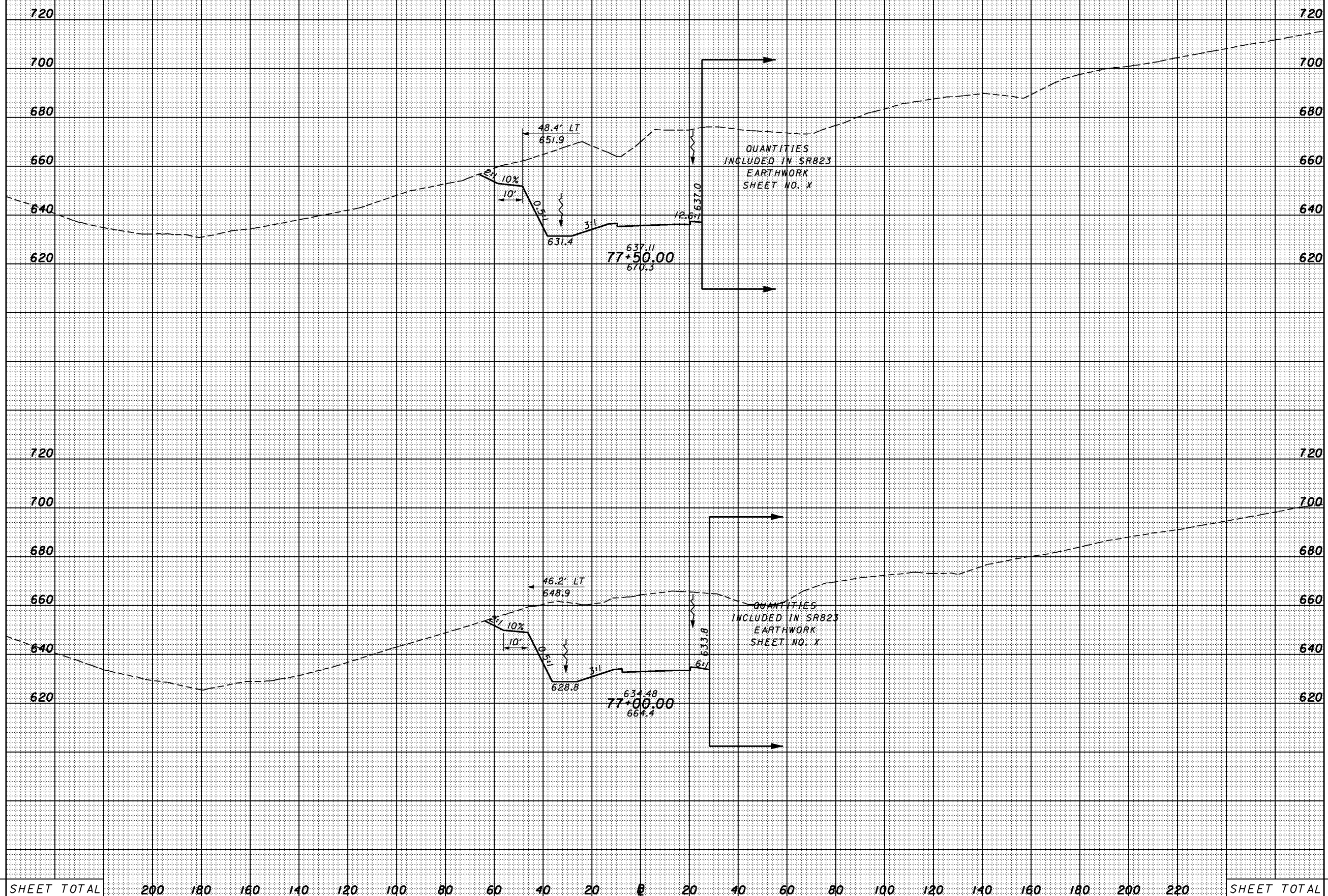
140 RAMP B - STA. 76+00.00 TO STA. 76+50.00

SCI-823-0.00

9:01:32 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s\_140r-ampb.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

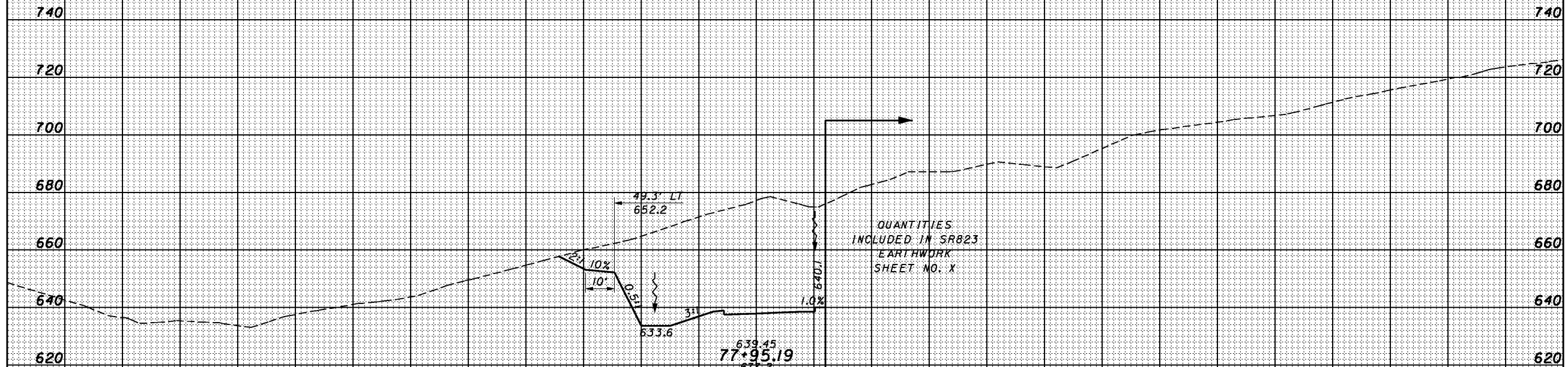
140 RAMP B - STA. 77+00.00 TO STA. 77+50.00

SCI-823-0.00

9:01:33 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666xs\_140r-ampb.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

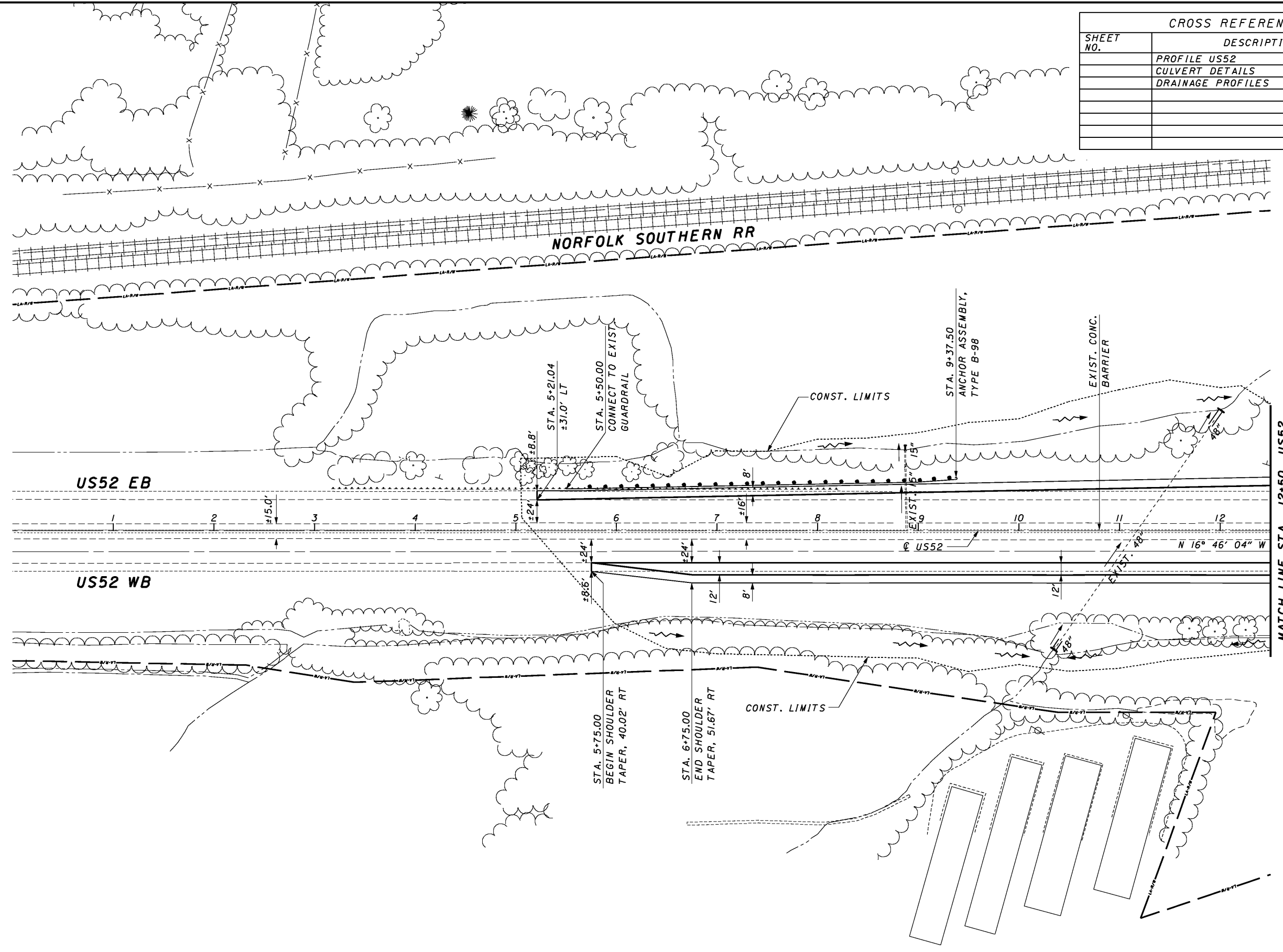
CROSS SECTIONS  
140 RAMP B - STA. 77+95.19

SCI-823-0.00

600



1/30/2008 1:35:49 PM g:\C003\0064\Road\PHASE 3\171366P01\_US52.SHT



CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US52
	CULVERT DETAILS
	DRAINAGE PROFILES

CALCULATED  
MT

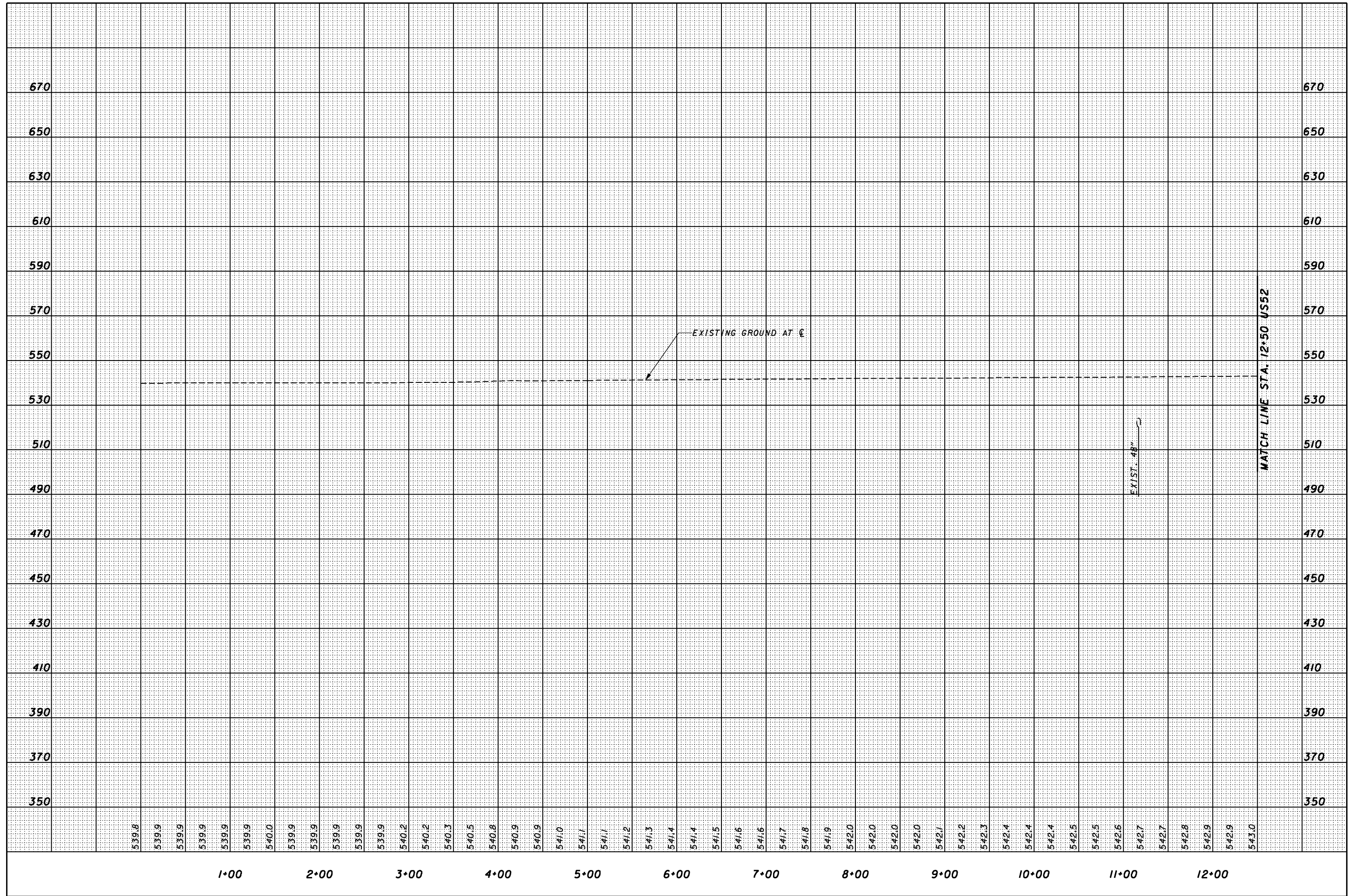
CHECKED  
RW

0 25 50 100  
HORIZONTAL SCALE IN FEET

PLAN - US52  
STA. 0+00.00 TO STA. 12+50.00

SCI-823-0.00

601

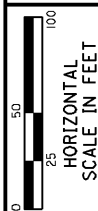


CALCULATED  
MT  
CHECKED  
RW

**PROFILE - US52**  
**STA. 0+00.00 TO STA. 12+50.00**

**SCI-823-0.00**

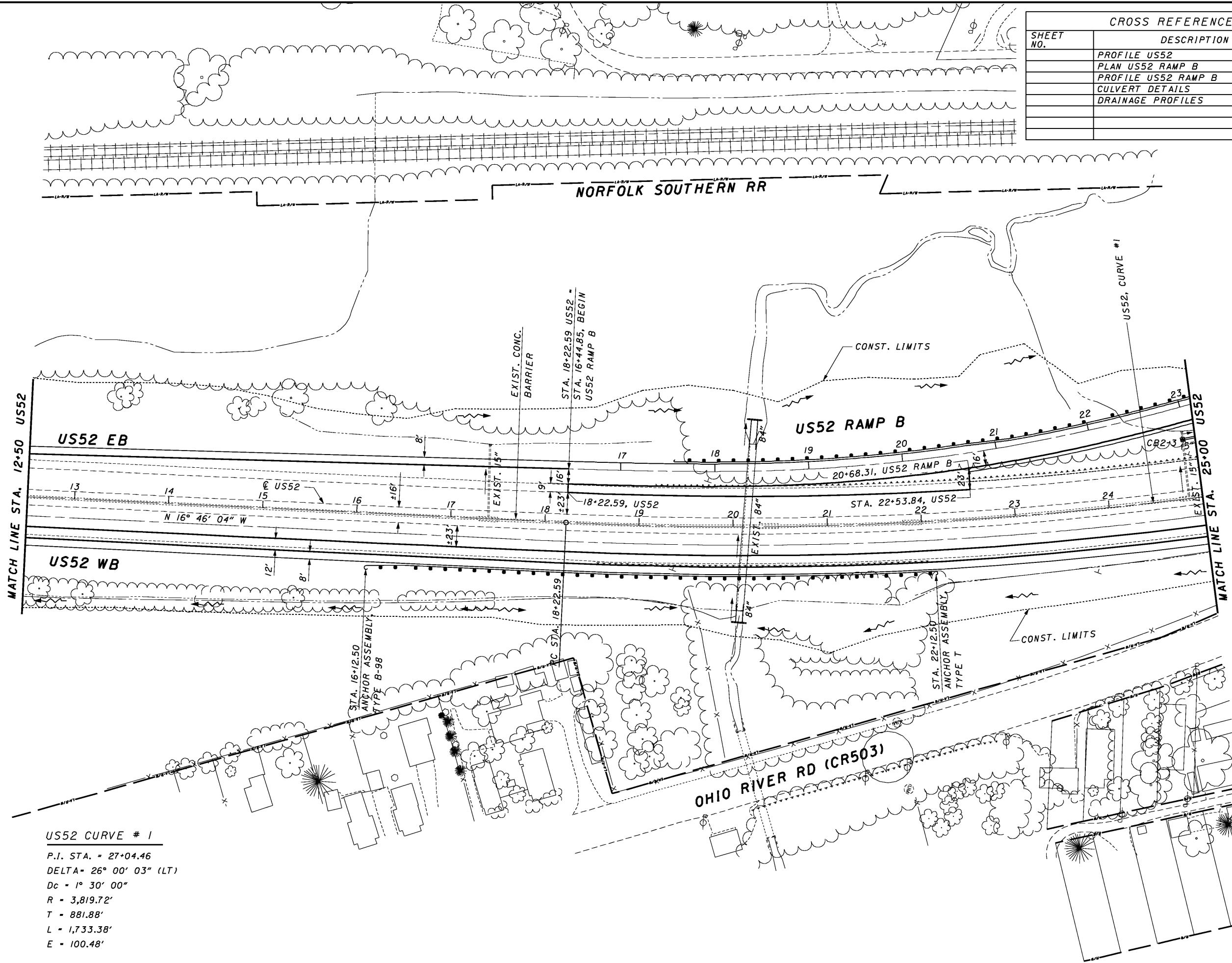
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US52
	PLAN US52 RAMP B
	PROFILE US52 RAMP B
	CULVERT DETAILS
	DRAINAGE PROFILES



CALCULATED  
MT  
CHECKED  
RW

PLAN - US52  
STA. 12+50.00 TO STA. 25+00.00

SCI-823-0.00  
603



US52 CURVE # 1  
P.I. STA. = 27+04.46  
DELTA= 26° 00' 03" (LT)  
Dc = 1° 30' 00"  
R = 3,819.72'  
T = 881.88'  
L = 1,733.38'  
E = 100.48'

1/25/2008 12:54:51 PM g:\co03\0064\road\phase\_3\17366p02\_us52.sht





**US52 CURVE # 1**

P.I. STA. = 27+04.46  
 DELTA = 26° 00' 03" (LT)  
 Dc = 1° 30' 00"  
 R = 3,819.72'  
 T = 881.88'  
 L = 1,733.38'  
 E = 100.48'

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US52
	PLAN US52 RAMP A
	PROFILE US52 RAMP A
	PLAN US52 RAMP B
	PROFILE US52 RAMP B
	PLAN - PROPERTY OWNERSHIP

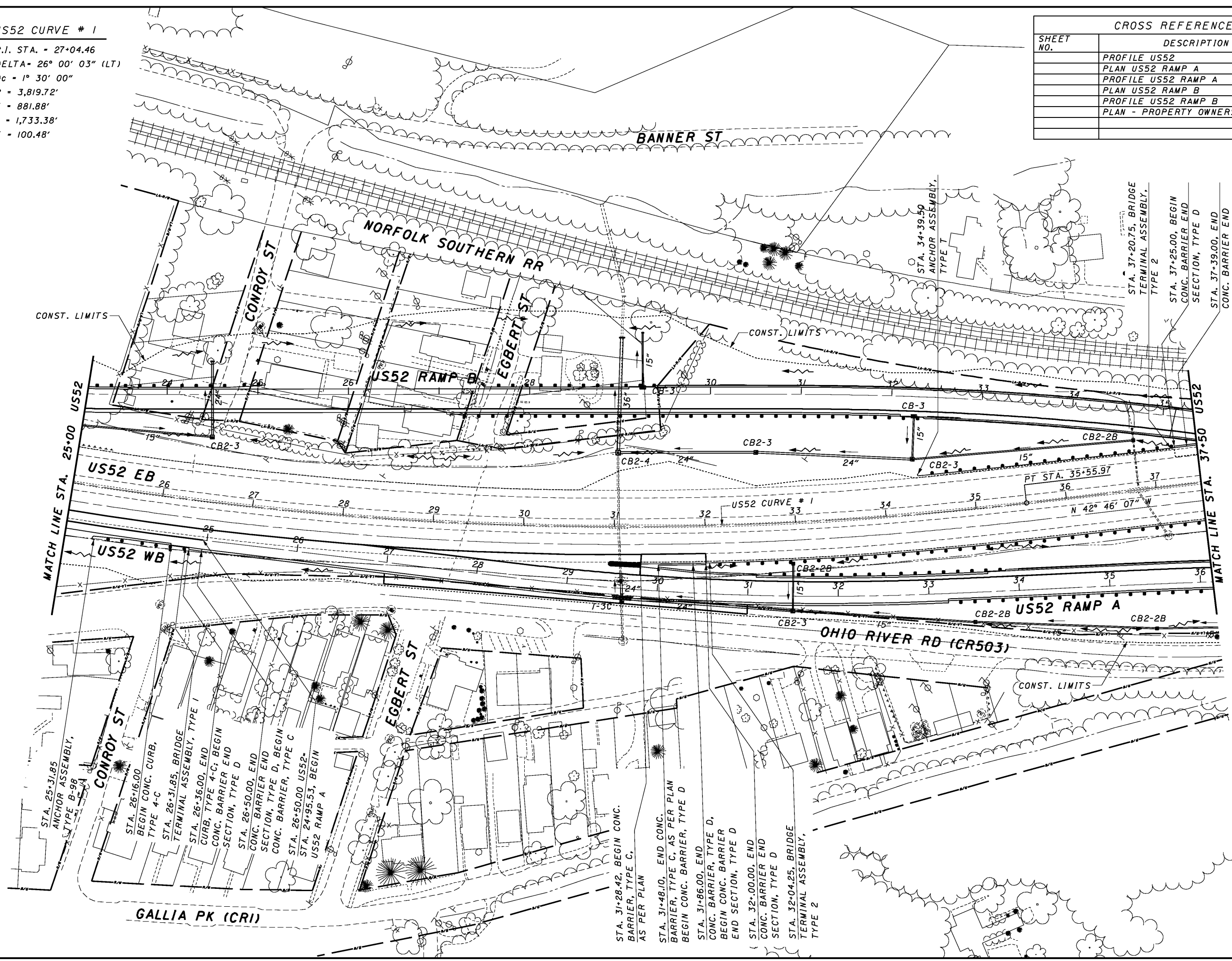


CALCULATED  
 MT  
 CHECKED  
 RW

**PLAN - US52**  
**STA. 25+00.00 TO STA. 37+50.00**

**SCI-823-0.00**

605



CONST. LIMITS

CONST. LIMITS

CONST. LIMITS

MATCH LINE STA. 25+00 US52

MATCH LINE STA. 37+50 US52

US52 WB

CONROY ST

STA. 25+31.85  
 ANCHOR ASSEMBLY,  
 TYPE B-98

STA. 26+16.00  
 BEGIN CONC. CURB,  
 TYPE 4-C

STA. 26+31.85, BRIDGE  
 TERMINAL ASSEMBLY, TYPE 1

STA. 26+36.00, END  
 CURB, TYPE 4-C; BEGIN  
 CONC. BARRIER END  
 SECTION, TYPE D

STA. 26+50.00, END  
 CONC. BARRIER END  
 SECTION, TYPE D, BEGIN  
 CONC. BARRIER, TYPE C

STA. 26+50.00 US52  
 STA. 24+95.53, BEGIN  
 US52 RAMP A

EGBERT ST

STA. 31+28.42, BEGIN CONC.  
 BARRIER, TYPE C,  
 AS PER PLAN

STA. 31+48.10, END CONC.  
 BARRIER, TYPE C, AS PER PLAN  
 BEGIN CONC. BARRIER, TYPE D

STA. 31+86.00, END  
 CONC. BARRIER, TYPE D,  
 BEGIN CONC. BARRIER  
 END SECTION, TYPE D

STA. 32+00.00, END  
 CONC. BARRIER END  
 SECTION, TYPE D

STA. 32+04.25, BRIDGE  
 TERMINAL ASSEMBLY,  
 TYPE 2

OHIO RIVER RD (CR503)

US52 RAMP A

EGBERT ST

STA. 37+20.75, BRIDGE  
 TERMINAL ASSEMBLY,  
 TYPE 2

STA. 37+25.00, BEGIN  
 CONC. BARRIER END  
 SECTION, TYPE D

STA. 37+39.00, END  
 CONC. BARRIER END  
 SECTION, TYPE D, BEGIN  
 CONC. BARRIER, TYPE D

US52 CURVE # 1

PT STA. 35+55.97

N 42° 46' 07" W

US52 EB

CONROY ST

NORFOLK SOUTHERN RR

US52 RAMP B

EGBERT ST

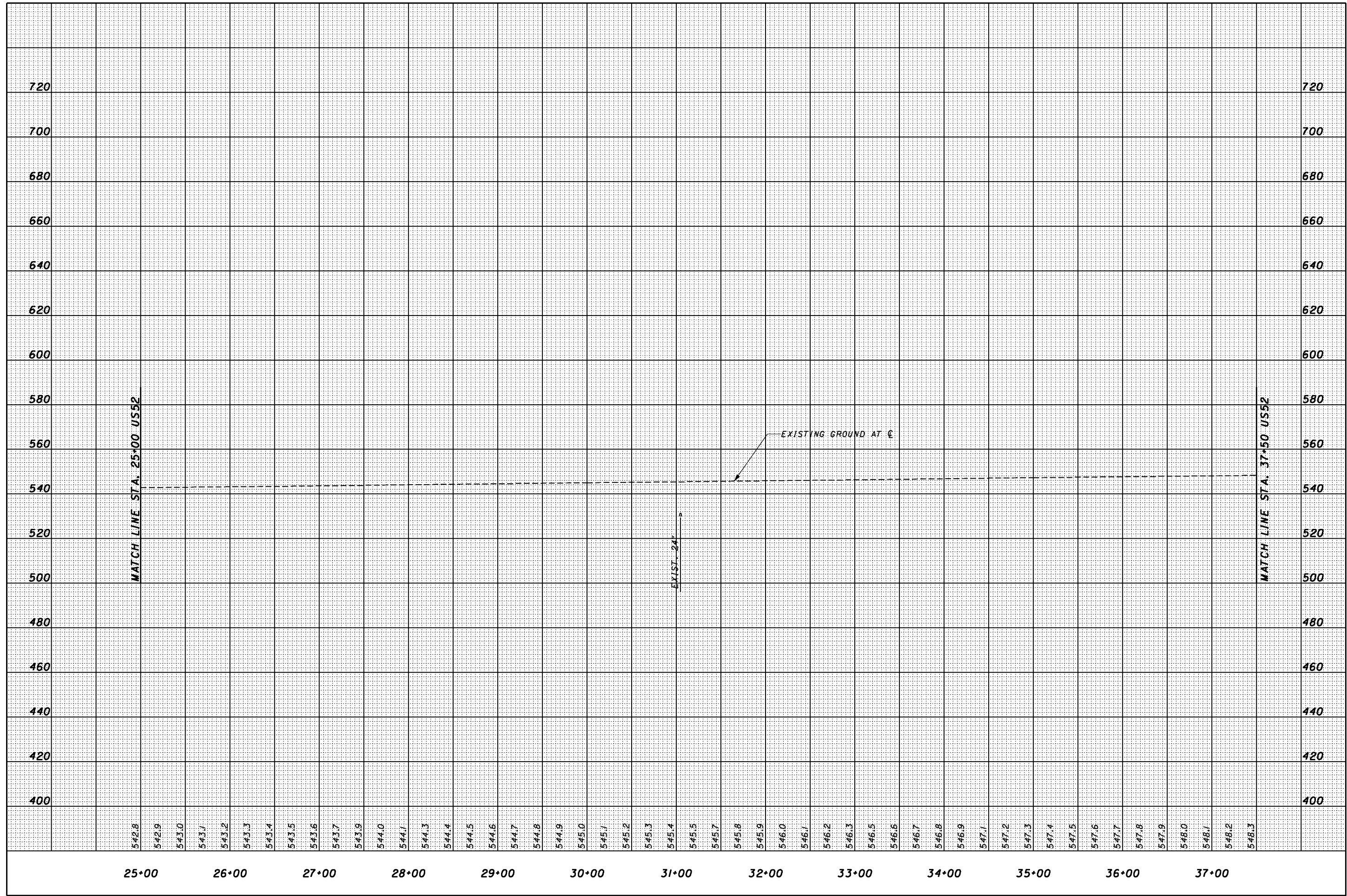
STA. 34+39.50  
 ANCHOR ASSEMBLY,  
 TYPE T

STA. 37+20.75, BRIDGE  
 TERMINAL ASSEMBLY,  
 TYPE 2

STA. 37+25.00, BEGIN  
 CONC. BARRIER END  
 SECTION, TYPE D

STA. 37+39.00, END  
 CONC. BARRIER END  
 SECTION, TYPE D, BEGIN  
 CONC. BARRIER, TYPE D

GALLIA PK (CRI)



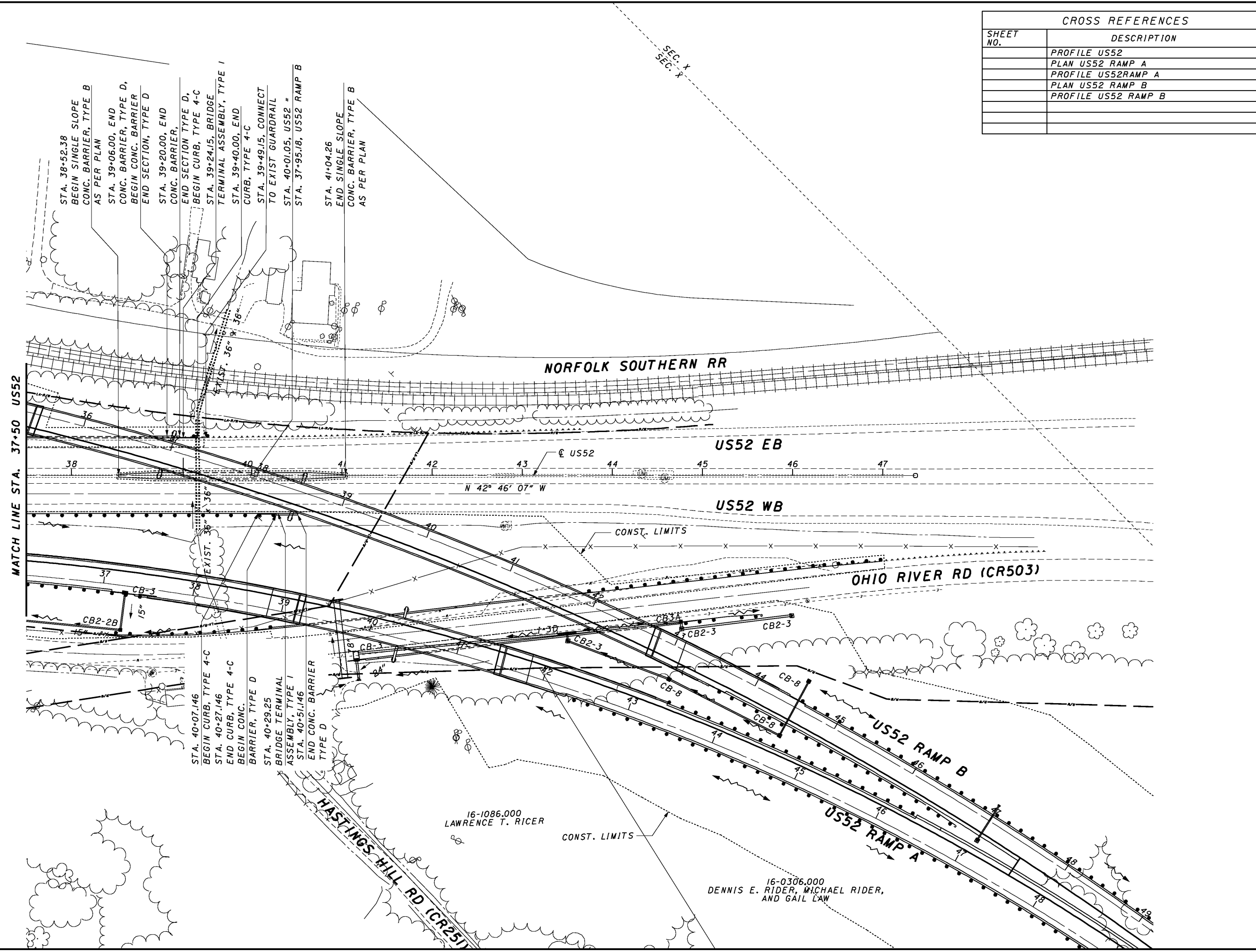
CALCULATED  
MT  
CHECKED  
RW

**PROFILE - US52**  
**STA. 25+00.00 TO STA. 37+50.00**

**SCI-823-0.00**



1/30/2008 16:41 PM g:\co03\0064\road\phase\_3\71366p04\_us52.sht



MATCH LINE STA. 37+50 US52

STA. 38+52.38  
BEGIN SINGLE SLOPE  
CONC. BARRIER, TYPE B  
AS PER PLAN

STA. 39+06.00, END  
CONC. BARRIER, TYPE D,  
BEGIN CONC. BARRIER  
END SECTION, TYPE D

STA. 39+20.00, END  
CONC. BARRIER,  
END SECTION TYPE D,  
BEGIN CURB, TYPE 4-C

STA. 39+24.15, BRIDGE  
TERMINAL ASSEMBLY, TYPE I

STA. 39+40.00, END  
CURB, TYPE 4-C

STA. 39+49.15, CONNECT  
TO EXIST GUARDRAIL

STA. 40+01.05, US52 =

STA. 37+95.18, US52 RAMP B

STA. 41+04.26  
END SINGLE SLOPE  
CONC. BARRIER, TYPE B  
AS PER PLAN

STA. 40+07.146  
BEGIN CURB, TYPE 4-C

STA. 40+27.146  
END CURB, TYPE 4-C  
BEGIN CONC.  
BARRIER, TYPE D

STA. 40+29.25  
BRIDGE TERMINAL  
ASSEMBLY, TYPE I

STA. 40+51.146  
END CONC. BARRIER  
TYPE D

16-1086.000  
LAWRENCE T. RICER

16-0306.000  
DENNIS E. RIDER, MICHAEL RIDER,  
AND GAIL LAW

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE US52
	PLAN US52 RAMP A
	PROFILE US52RAMP A
	PLAN US52 RAMP B
	PROFILE US52 RAMP B

CALCULATED  
MT

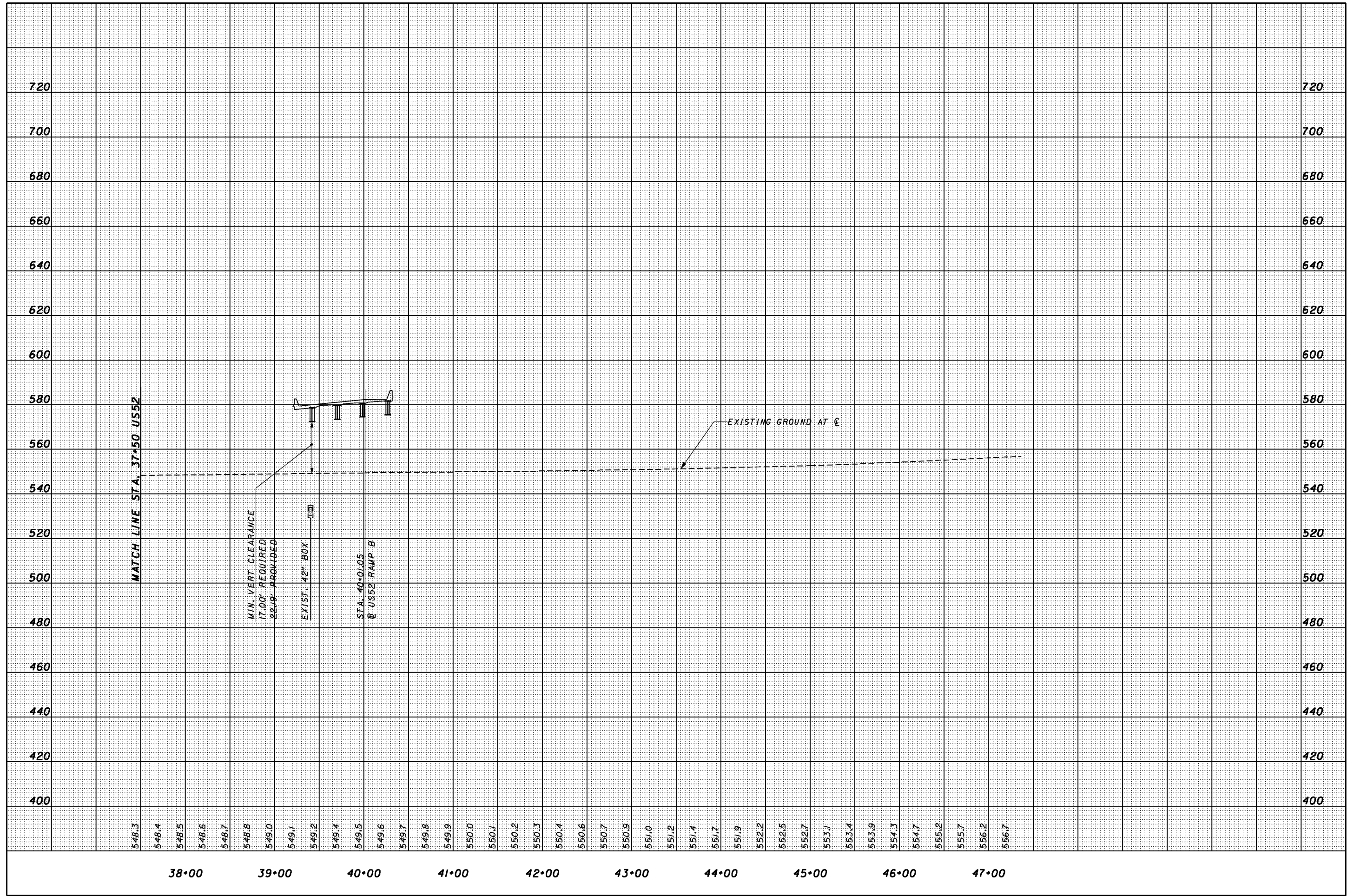
CHECKED  
RW

0 25 50 100  
HORIZONTAL  
SCALE IN FEET

PLAN - US52  
STA. 37+50.00 TO STA. 47+36.28

SCI-823-0.00

607



MATCH LINE STA. 37+50 US52

MIN. VERT. CLEARANCE  
17.00' REQUIRED  
22.19' PROVIDED

EXIST. 42" BOX

STA. 40+01.05  
@ US52 RAMP B

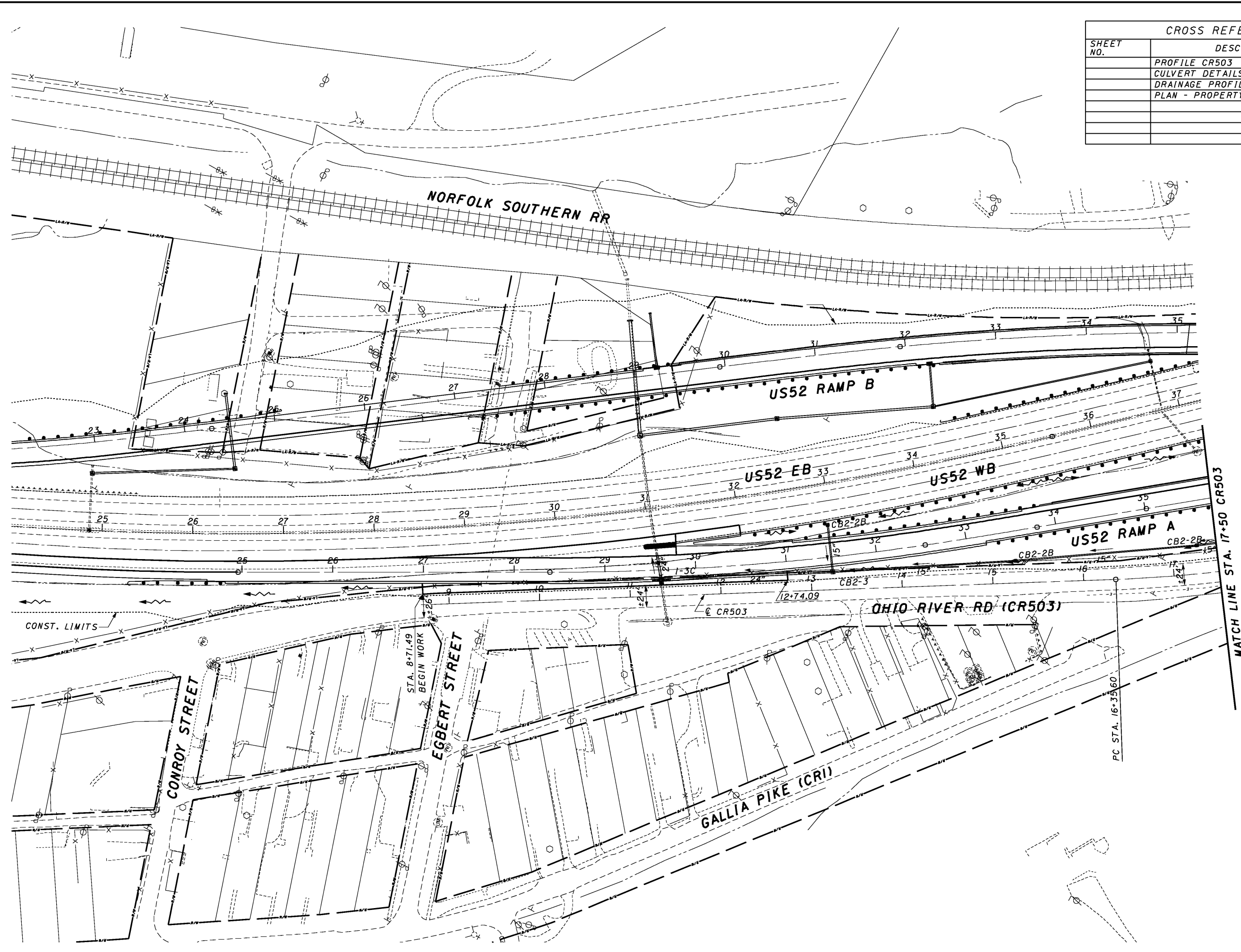
EXISTING GROUND AT C

CALCULATED  
MT  
CHECKED  
RW

PROFILE - US52  
STA. 37+50.00 TO STA. 47+36.28

SCI-823-0.00

8/27/02 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366ap01\_cr503.dgn



CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE CR503
	CULVERT DETAILS
	DRAINAGE PROFILES
	PLAN - PROPERTY OWNERSHIP

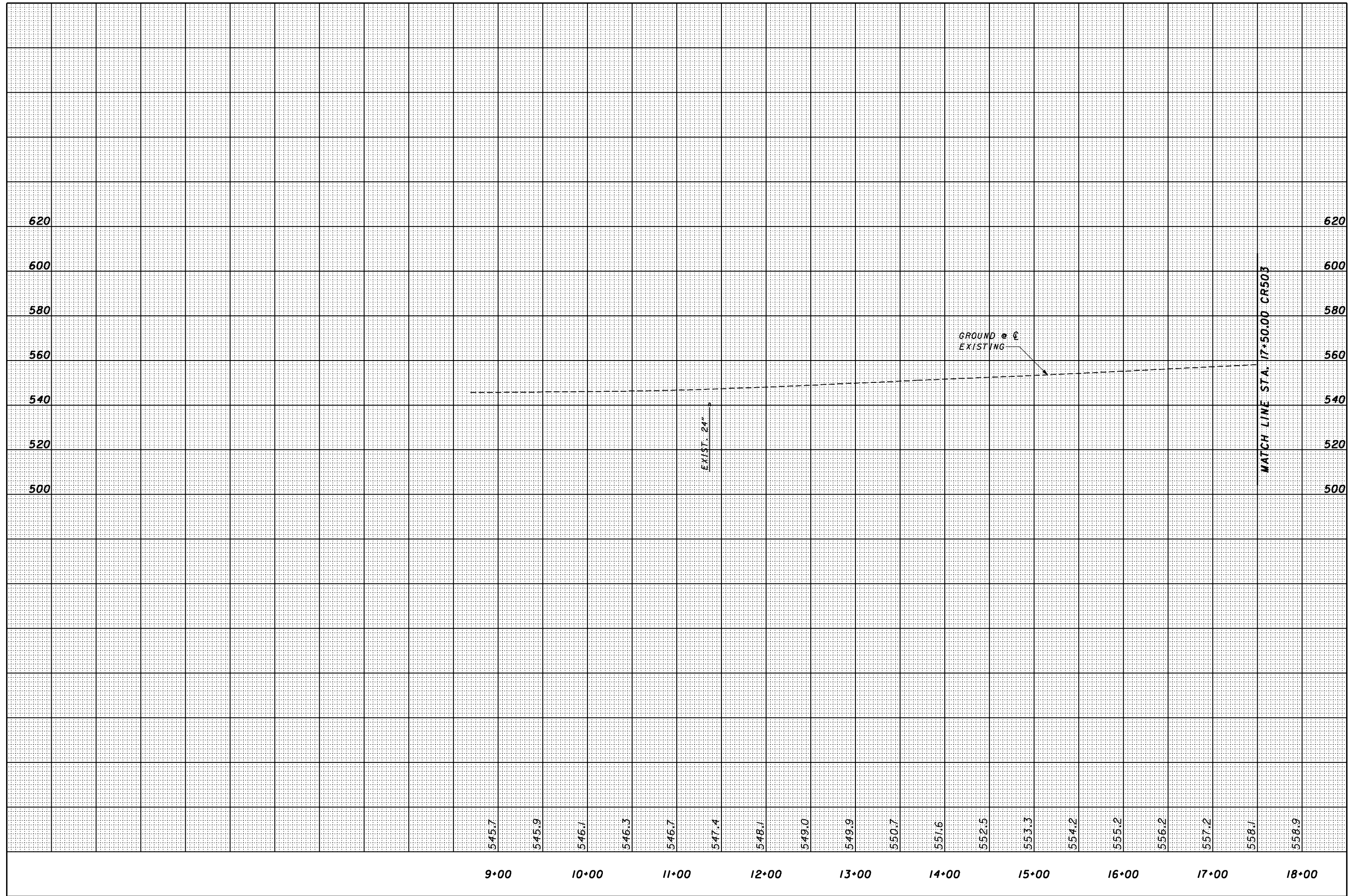
CALCULATED CAS  
 CHECKED RW

HORIZONTAL SCALE IN FEET

PLAN - OHIO RIVER ROAD (CR503)  
 STA. 8+69.00 TO STA. 17+50.00

SCI-823-0.00





CALCULATED  
CAS  
CHECKED  
RW

**PROFILE - OHIO RIVER ROAD (CR503)**  
**STA. 8+69.00 TO STA. 17+50.00**

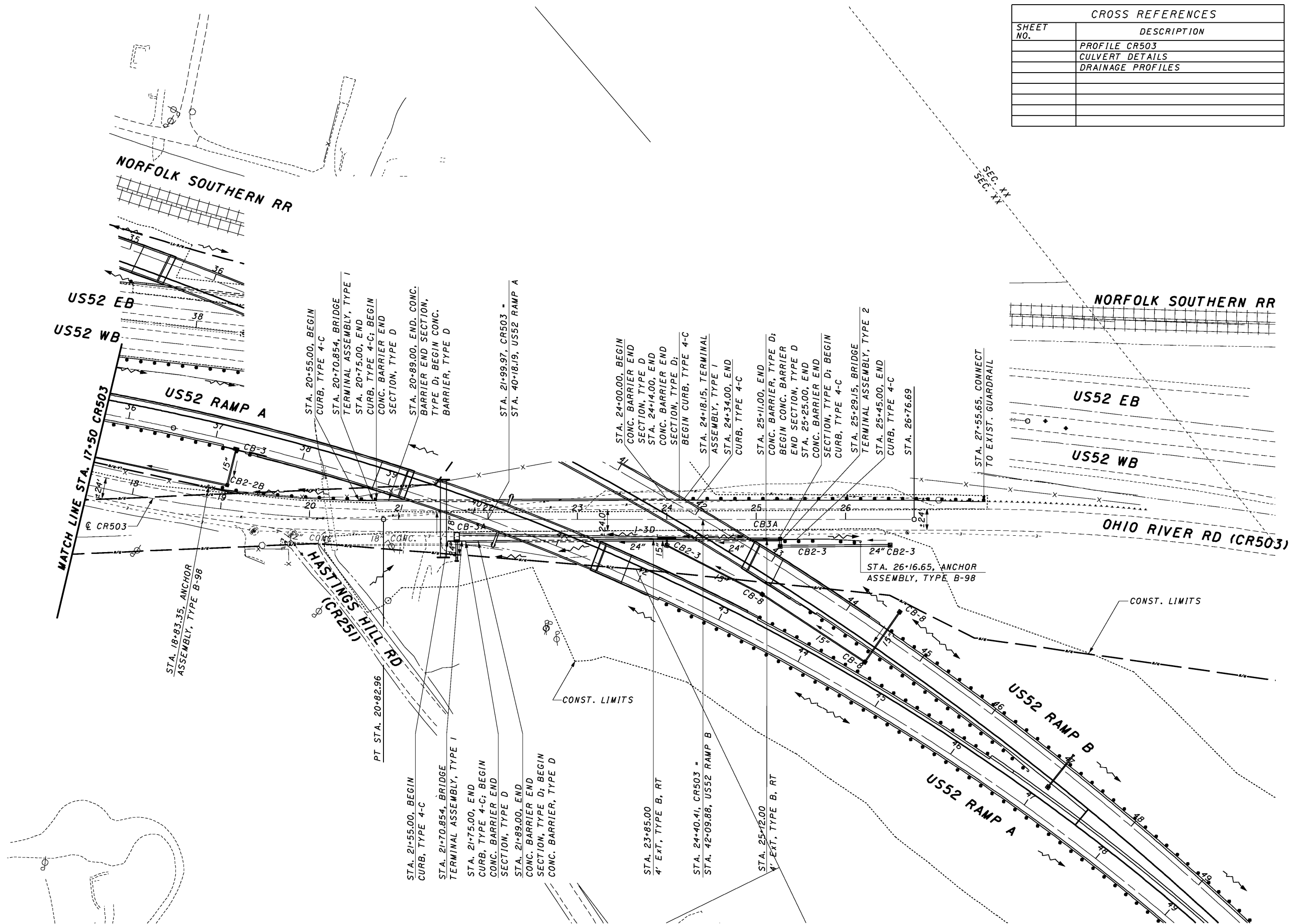
**SCI-823-0.00**

1/30/2008 3:17:36pm 3\77366p02.cr503.sht

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE CR503
	CULVERT DETAILS
	DRAINAGE PROFILES

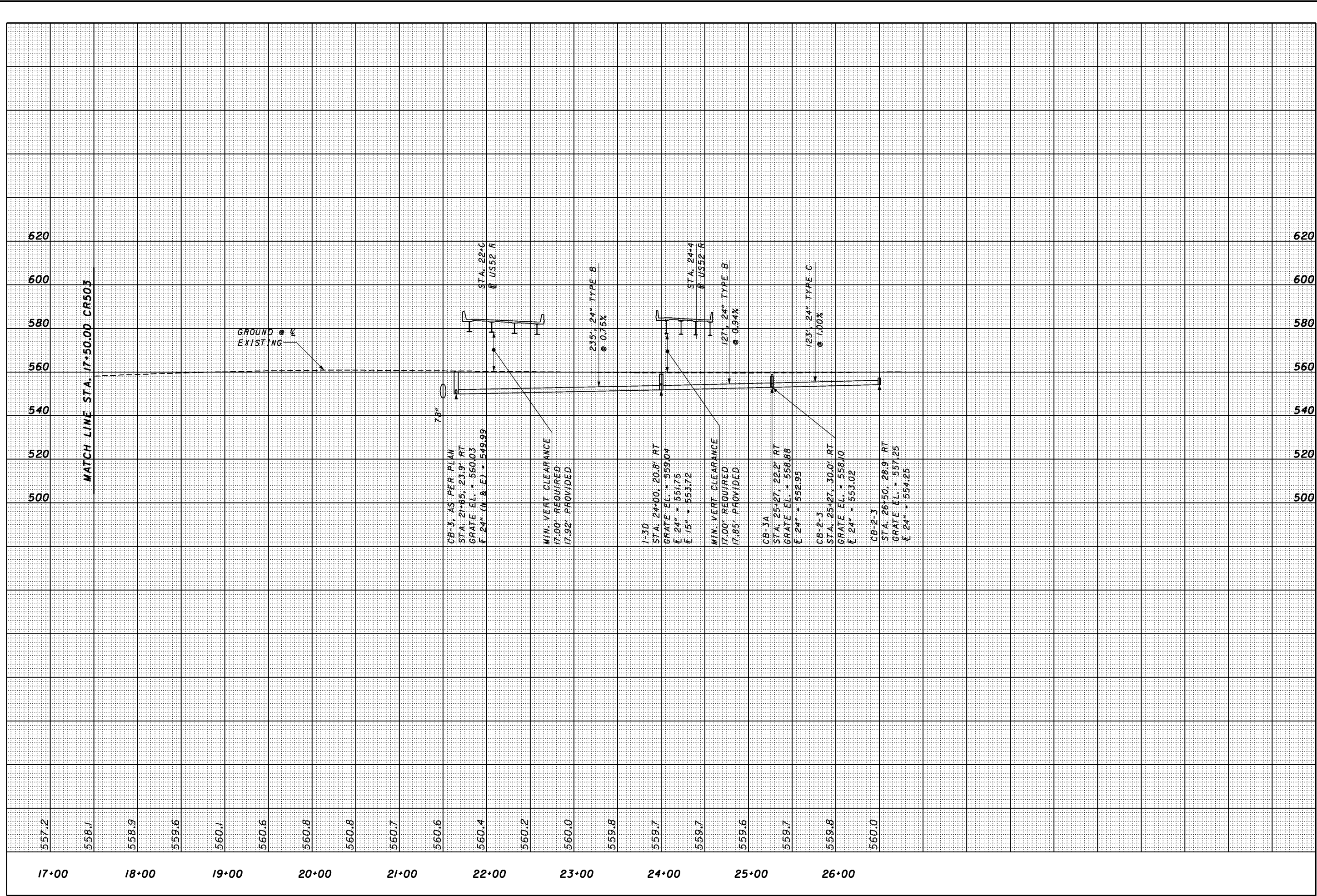
CALCULATED CAS  
 CHECKED RW

HORIZONTAL SCALE IN FEET



**PLAN - OHIO RIVER ROAD (CR503)**  
**STA. 17+50.00 TO STA 26+76.69**

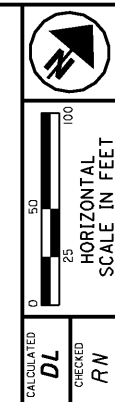
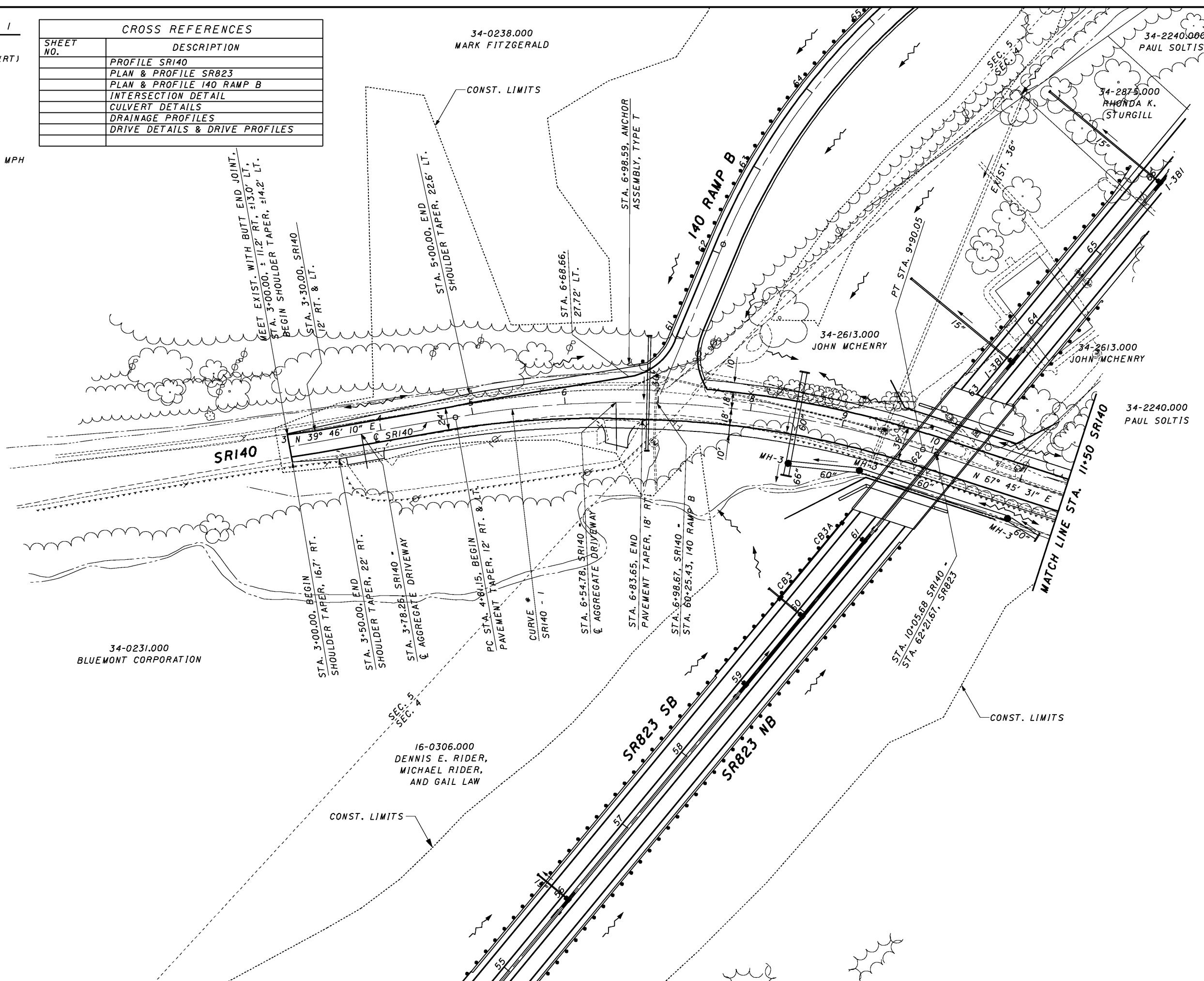
**SCI-823-0.00**





CURVE # SRI140 - 1  
 P.I. STA. = 7+40.78  
 DELTA = 27° 59' 21" (RT)  
 Dc = 5° 30' 00"  
 R = 1,041.74'  
 T = 259.63'  
 L = 508.89'  
 E = 31.87'  
 Emax. = NC  
 DESIGN SPEED = 45 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SRI140
	PLAN & PROFILE SR823
	PLAN & PROFILE 140 RAMP B
	INTERSECTION DETAIL
	CULVERT DETAILS
	DRAINAGE PROFILES
	DRIVE DETAILS & DRIVE PROFILES



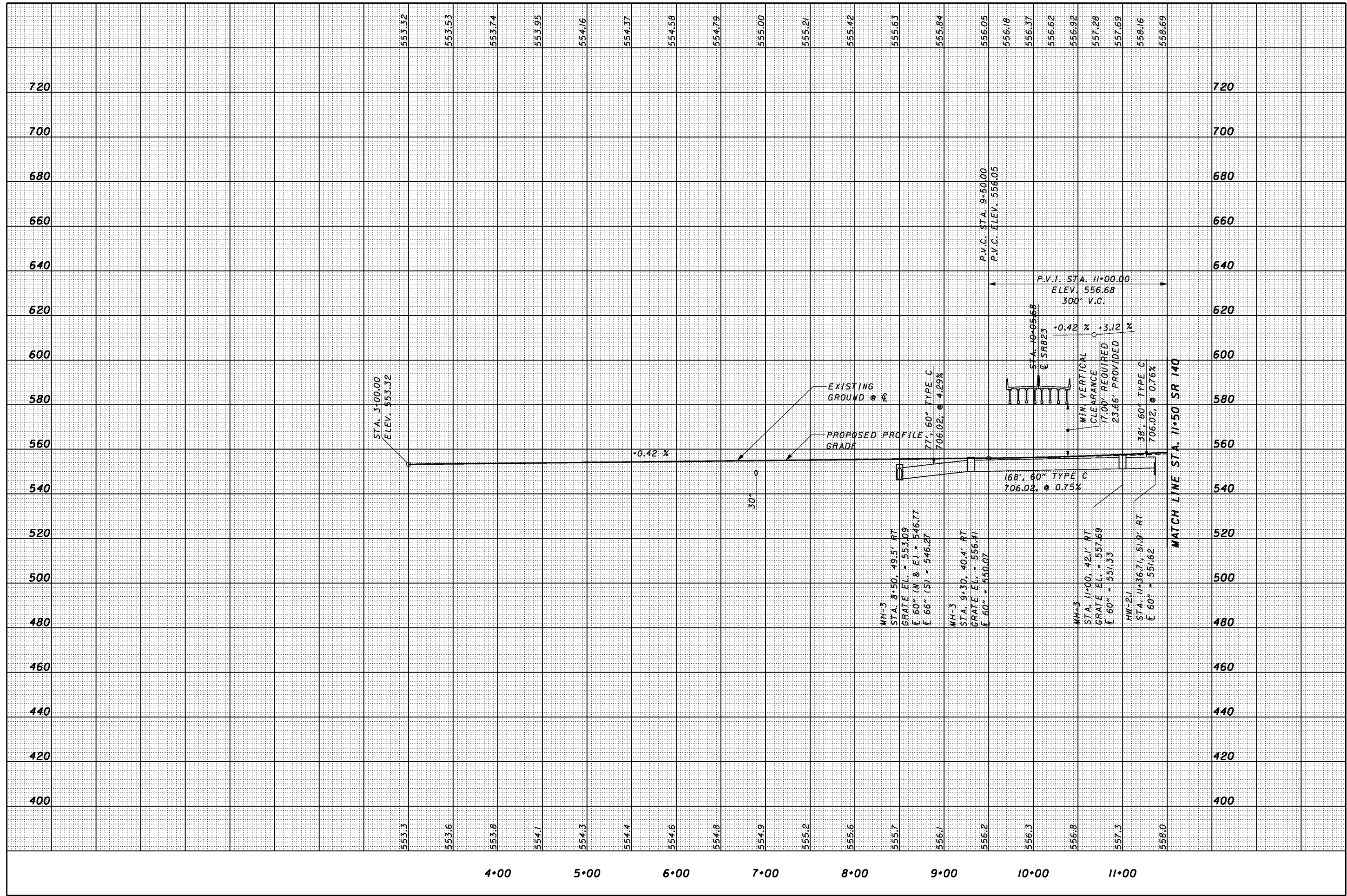
CALCULATED DL  
 CHECKED RW

PLAN - SR140  
 STA. 3+00.00 TO STA. 11+50.00

SCI-823-0.00

613

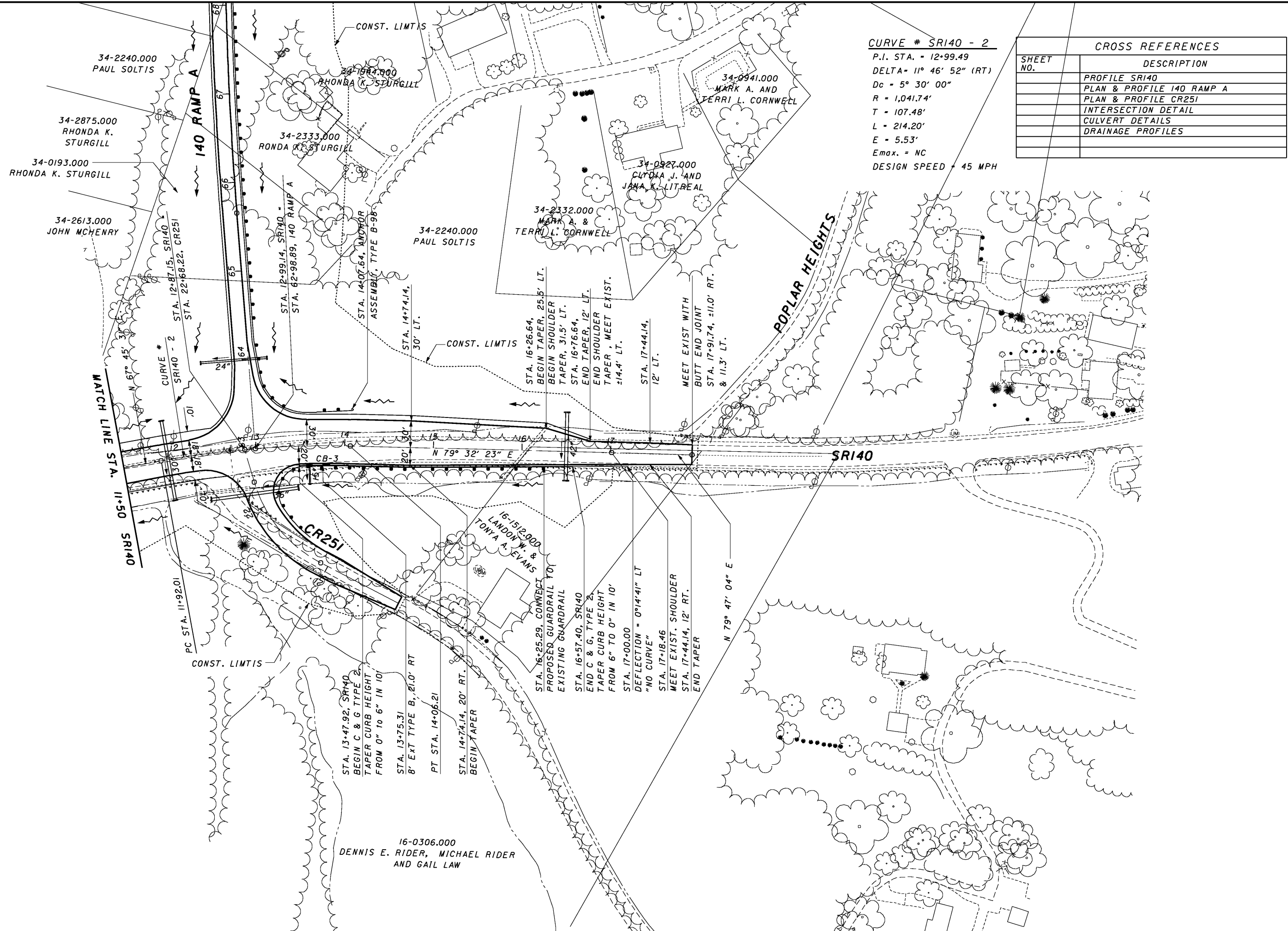
1/30/2008 11:32:56 PM g:\co03\0064\road\phase\_3\7366p01\_sri140.sht



CALCULATED  
JFA  
CHECKED  
RN

PROFILE - SR140  
STA. 3+00.00 TO STA. 11+50.00

SCI-823-0.00



**CURVE # SRI40 - 2**  
 P.I. STA. = 12+99.49  
 DELTA = 11° 46' 52" (RT)  
 Dc = 5° 30' 00"  
 R = 1,041.74'  
 T = 107.48'  
 L = 214.20'  
 E = 5.53'  
 Emax. = NC  
 DESIGN SPEED = 45 MPH

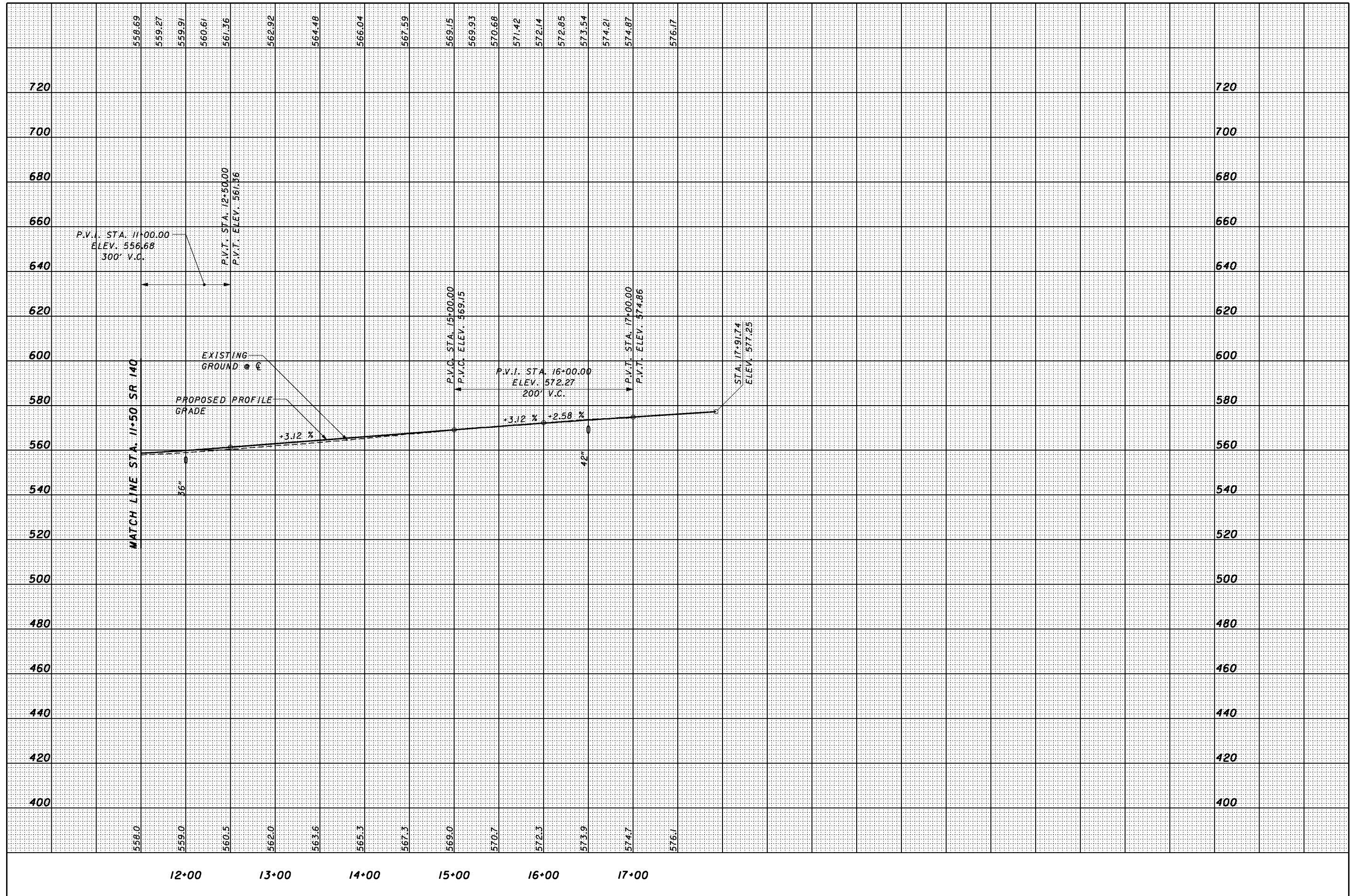
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SRI40
	PLAN & PROFILE 140 RAMP A
	PLAN & PROFILE CR251
	INTERSECTION DETAIL
	CULVERT DETAILS
	DRAINAGE PROFILES

CALCULATED **DL**  
 CHECKED **RW**

0 25 50 100  
 HORIZONTAL SCALE IN FEET

**PLAN - SR140**  
**STA. 11+50.00 TO STA. 17+91.74**





CALCULATED  
JFA  
CHECKED  
RN

**PROFILE - SR140**  
**STA. 11+50.00 TO STA. 17+91.74**

**SCI-823-0.00**

1/30/2008 3:20 PM g:\co03\0064\road\phase\_3\77366p01\_cr251.sht

16-0306.000  
DENNIS E. RIDER, MICHAEL RIDER  
AND GAIL LAW

MEET EXIST. WITH  
BUTT-END JOINT.  
STA. 20+10.11,  
±7.8' LT. & 8.1' RT.

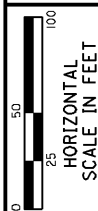
16-1512.000  
LONDON W.  
TONYA A. EVANS

CR251  
STA. 21+35.61, ANCHOR  
ASSEMBLY, TYPE E-98

SRI140

**CURVE # CR 251**  
P.I. STA. = 21+72.90  
DELTA = 46° 04' 41" (RT)  
Dc = 38° 00' 00"  
R = 150.78'  
T = 64.12'  
L = 121.26'  
E = 13.07'

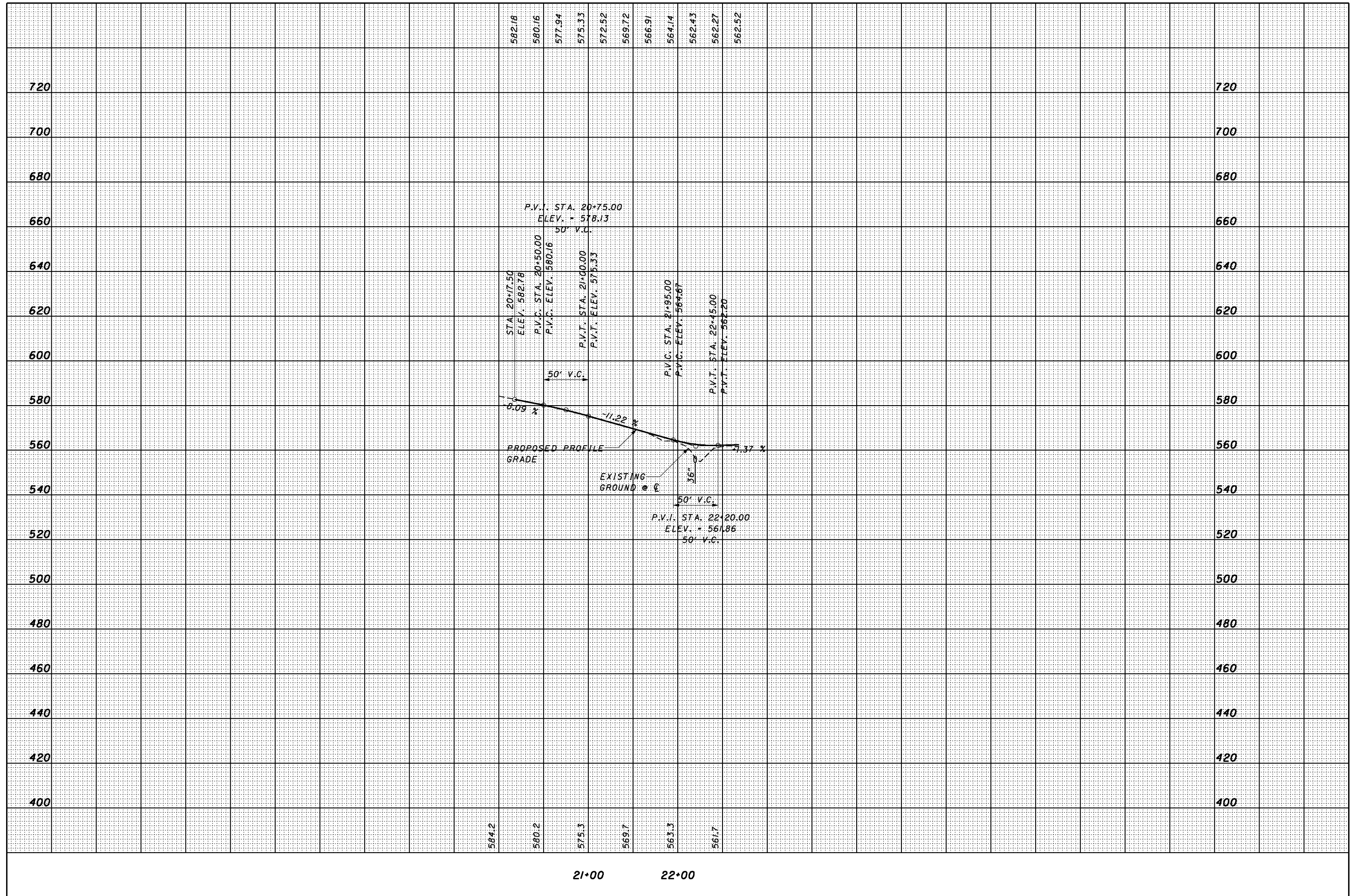
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE CR 251
	PLAN & PROFILE SR823
	PLAN & PROFILE SRI140
	PLAN & PROFILE 140 RAMP A
	INTERSECTION DETAIL



CALCULATED DL  
CHECKED RW

PLAN - CR251  
STA. 20+00.00 TO STA. 22+68.22

SCI-823-0.00



582.18	580.16	577.94	575.33	572.52	569.72	566.91	564.14	562.43	562.27	562.52
584.2	580.2	575.3	569.7	563.3	561.7					

CALCULATED  
JFA  
CHECKED  
RW

PROFILE - CR251  
STA. 20+00.00 TO STA. 22+68.22

SCI-823-0.00



**PERSHING SOUTH CURVE # 1**

P.I. STA. = 15+15.06  
 DELTA = 47° 27' 26" (LT)  
 Dc = 37° 00' 00"  
 R = 154.85'  
 T = 68.07'  
 L = 128.26'  
 E = 14.30'  
 Emax. = 0.04  
 DESIGN SPEED = 25 MPH

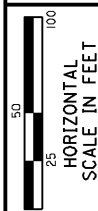
**PERSHING SOUTH CURVE # 2**

P.I. STA. = 18+79.42  
 DELTA = 40° 07' 39" (RT)  
 Dc = 37° 00' 00"  
 R = 154.85'  
 T = 56.56'  
 L = 108.45'  
 E = 10.01'  
 Emax. = 0.04  
 DESIGN SPEED = 25 MPH

**PERSHING SOUTH DRIVE**

P.I. STA. = 0+92.50  
 DELTA = 45°00'00" (LT)  
 Dc = 76°23'39.74"  
 R = 75.00'  
 T = 31.07'  
 L = 58.90'  
 E = 6.18'

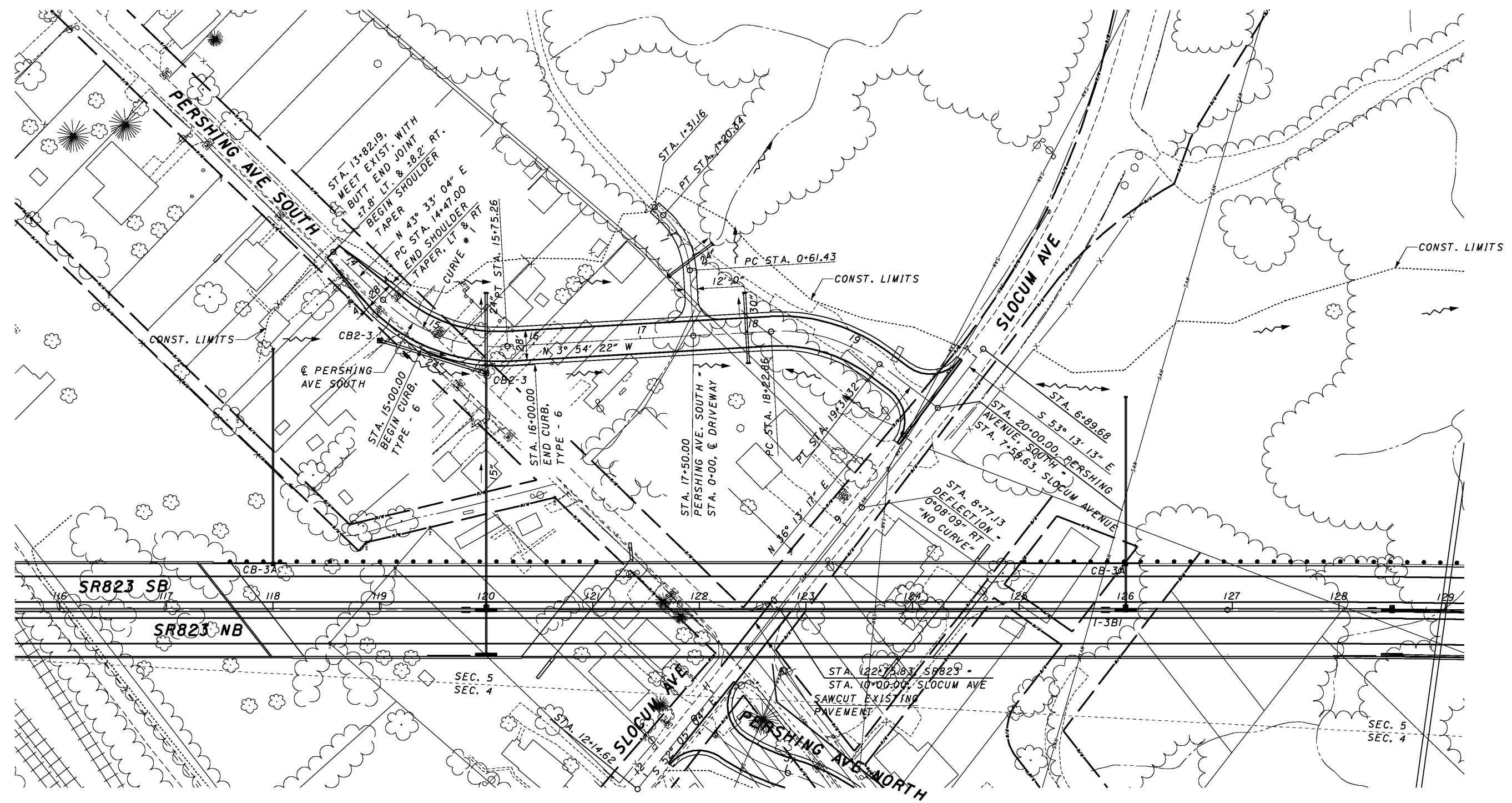
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE PERSHING AVE SOUTH
	PROPERTY OWNERSHIP PLAN
	CULVERT DETAILS
	DRAINAGE PROFILES
	INTERSECTION DETAILS
	PLAN & PROFILE SR823
	DRIVEWAY PROFILE & DETAIL
	SLOCUM AVE PROFILE



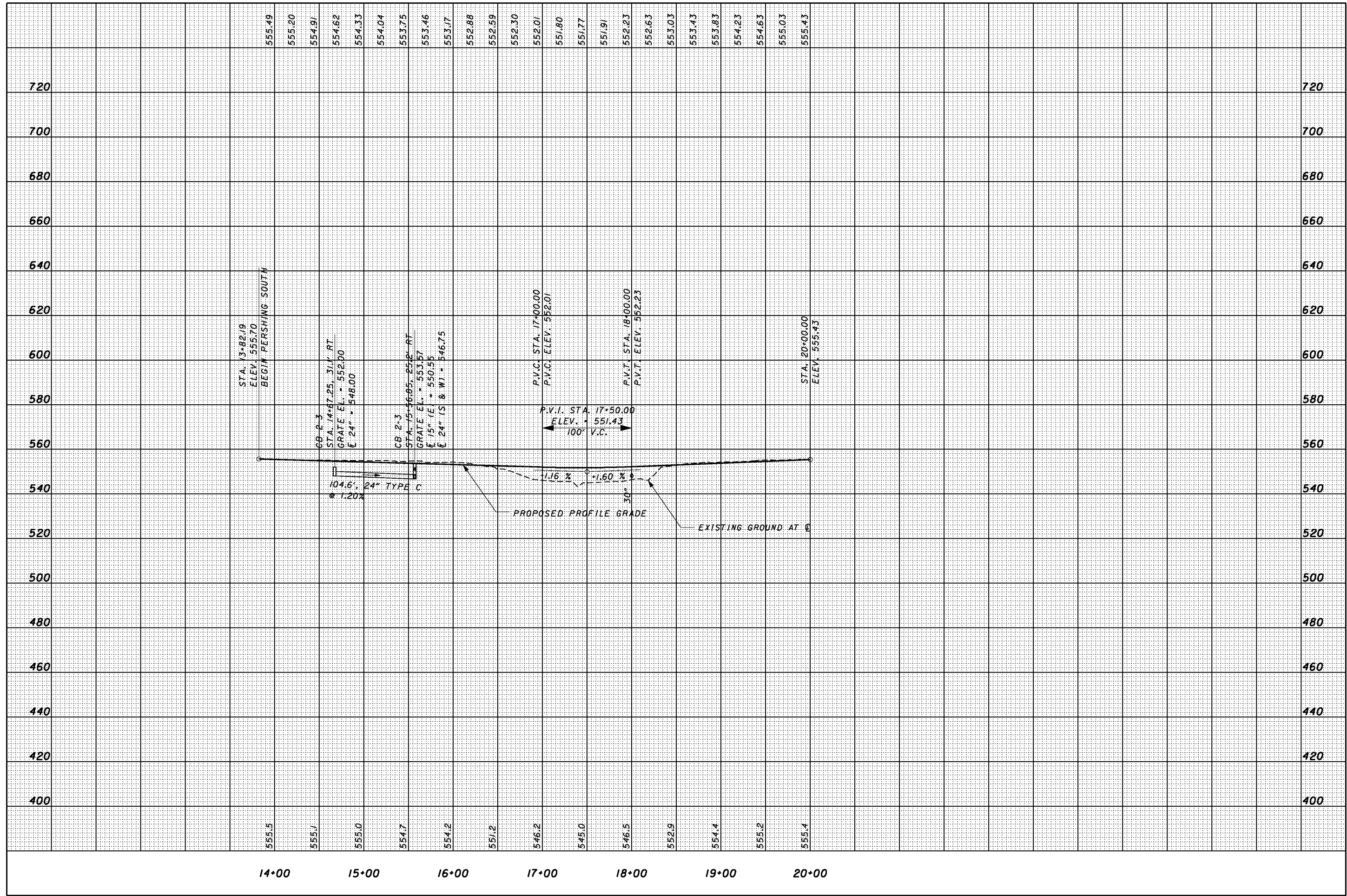
CALCULATED: MT  
 CHECKED: RW

PLAN - PERSHING AVE. SOUTH & SLOCUM AVE.  
 STA. 13+82.19 TO STA. 20+00.00

SCI-823-0.00



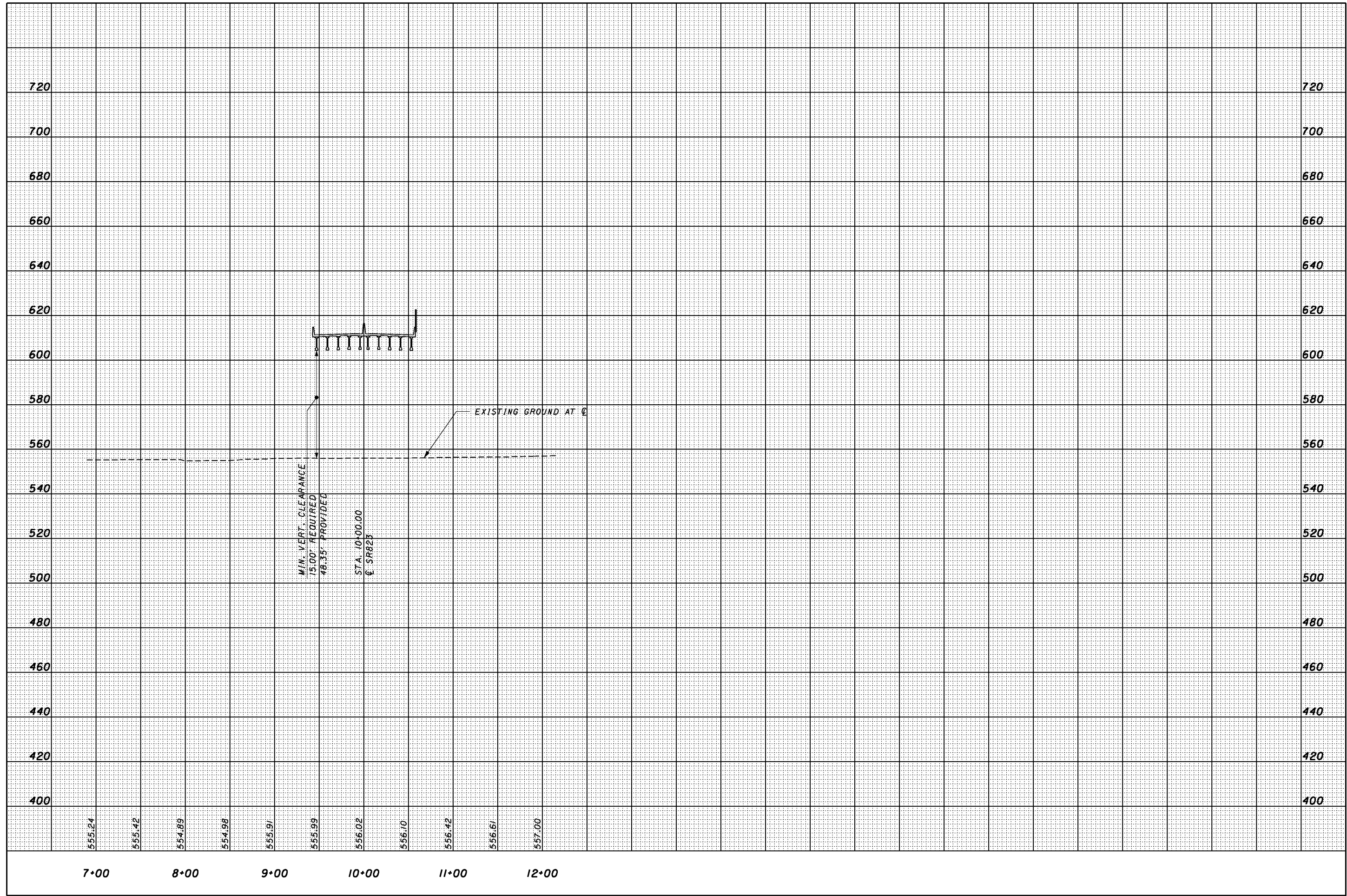
1/30/2008 3:36 PM g:\c03\0064\road\phase\_3\17356p01\_perms.sht



PROFILE - PERSHING AVENUE SOUTH  
STA. 13+82.19 TO STA. 20+00.00

SCI-823-0.00

1/30/2008 3:47 PM g:\co03\0064\road\phase\_3\77366of01\_slocum.sht



CALCULATED  
MT  
CHECKED  
RW

**PROFILE - SLOCUM AVENUE  
STA. 6+98.68 TO STA. 12+14.62**

**SCI-823-0.00**



**CURVE # - 1**

P.I. STA. = 30+64.38  
 DELTA= 21° 47' 09" (LT)  
 Dc = 28° 00' 00"  
 R = 204.63'  
 T = 39.38'  
 L = 77.81'  
 E = 3.75'  
 Emax. = NC  
 DESIGN SPEED = 25 MPH

**CURVE # - 2**

P.I. STA. = 31+66.95  
 DELTA= 35° 26' 19" (RT)  
 Dc = 28° 32' 18"  
 R = 200.77'  
 T = 64.15'  
 L = 124.18'  
 E = 10.00'  
 Emax. = NC  
 DESIGN SPEED = 25 MPH

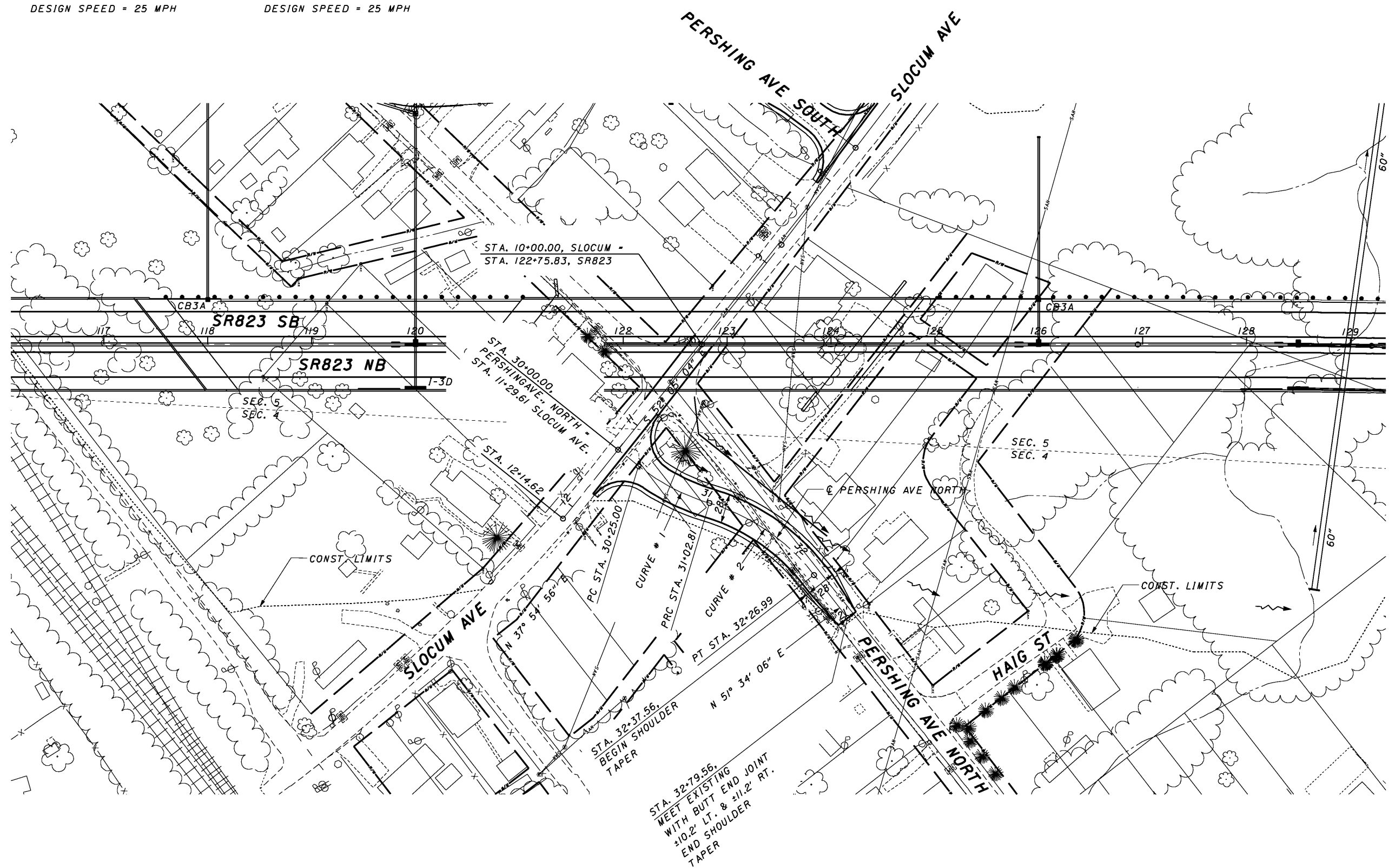
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE PERSHING AVE NORTH
	PROPERTY OWNESHIP PLAN
	INTERSECTION DETAILS
	SR823 PLAN & PROFILE
	PLAN & PROFILE PERSHING AVE SOUTH

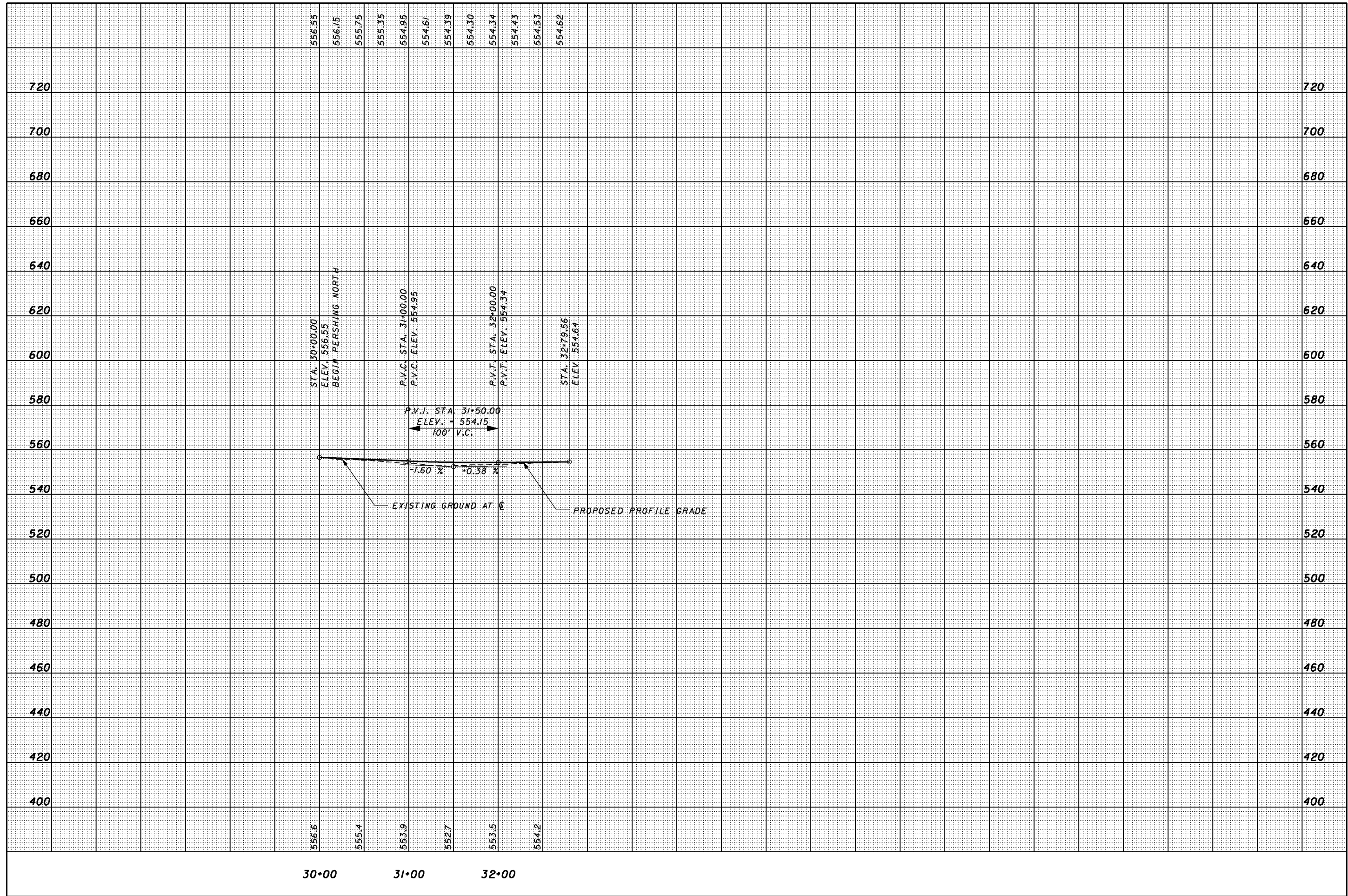
  
 HORIZONTAL SCALE IN FEET

PLAN - PERSHING AVENUE NORTH  
 STA. 30+00.00 TO STA. 32+79.56

SCI-823-0.00



1/30/2008 3:17:36pm 3:\71366p01\_per.mns.sht



30+00      31+00      32+00

CALCULATED  
MT  
CHECKED  
RW

**PROFILE - PERSHING AVENUE NORTH**  
**STA. 30+00.00 TO STA. 32+79.56**

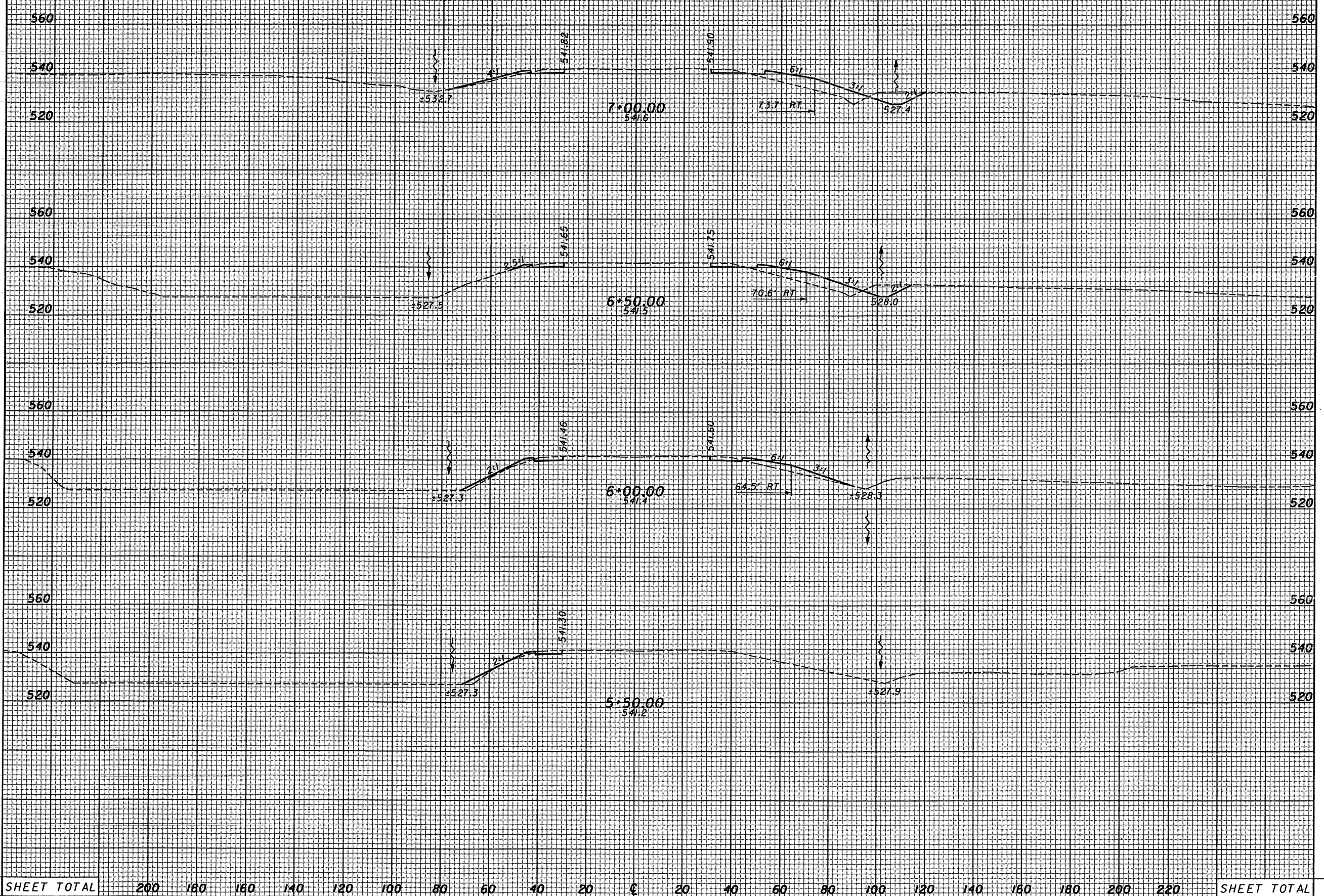
**SCI-823-0.00**



11/29/2007 3:04:51 PM g:\co03\0064\road\phase 3\77366xs\_us52.dgn

SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED



CROSS SECTIONS  
US52 - STA. 5+50.00 TO STA. 7+00.00

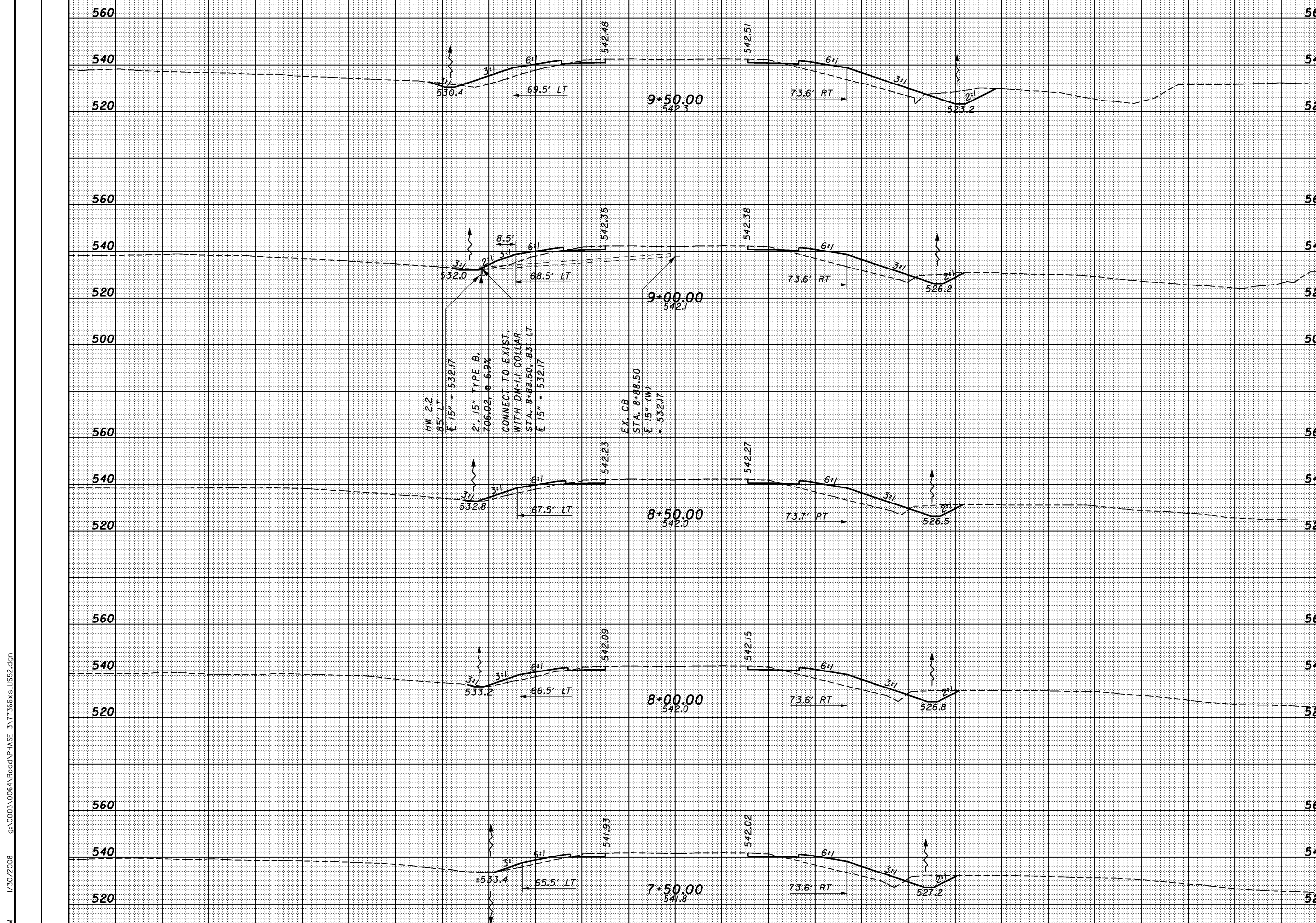
SCI-823-0.00  
624

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



4:54:11 PM 1/30/2008 g:\C003\0064\Road\PHASE\_3\T13666xs\_LIS52.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  
US52 - STA. 7+50.00 TO STA. 9+50.00

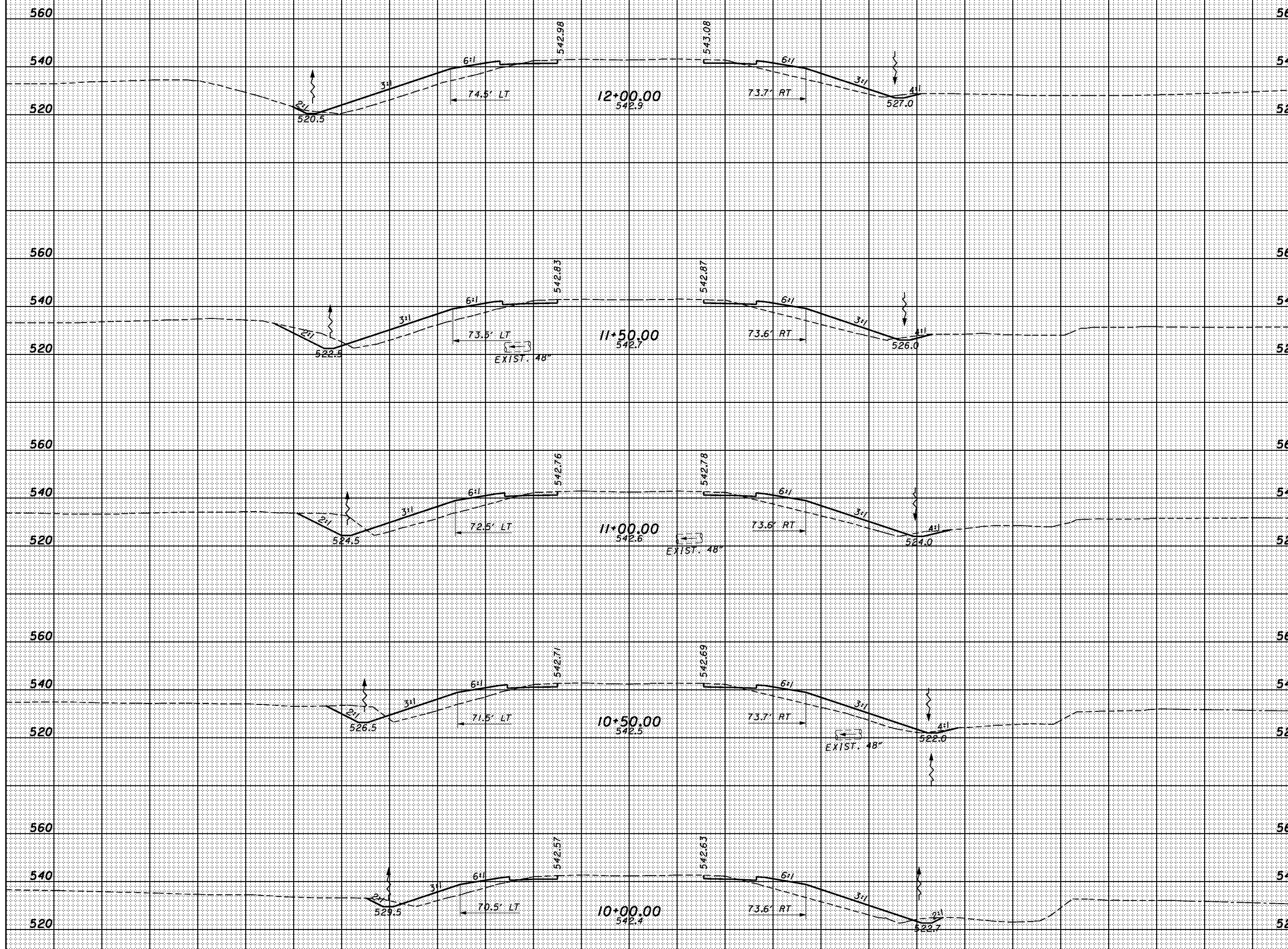
SCI-823-0.00

625

SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

4:54:12 PM 1/30/2008 g:\c003\0064\Road\PHASE\_3\T13666xs\_LIS52.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  
US52 - STA. 10+00.00 TO STA. 12+00.00

SCI-823-0.00

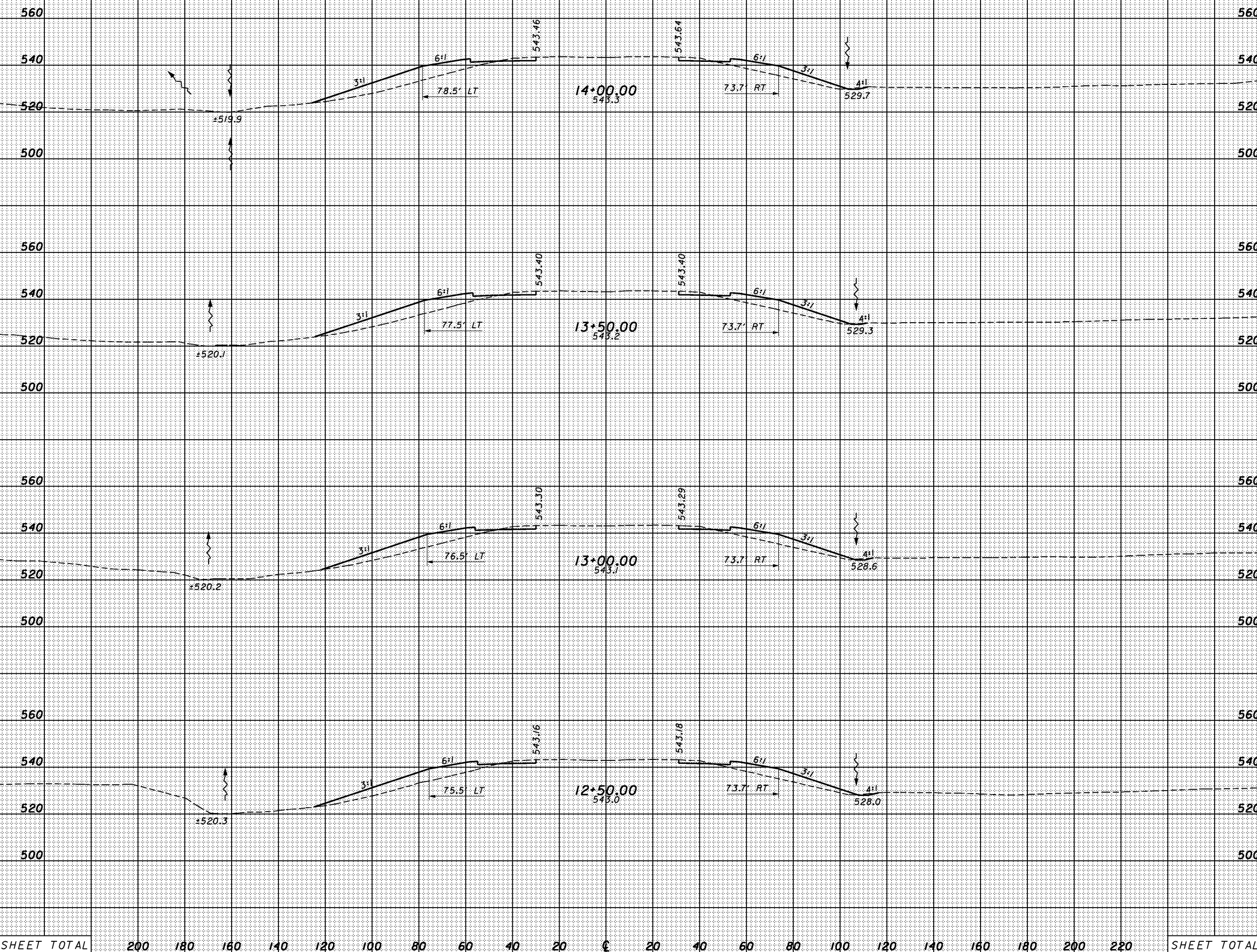
626

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  
US52 - STA. 12+50.00 TO STA. 14+00.00

SCI-823-0.00

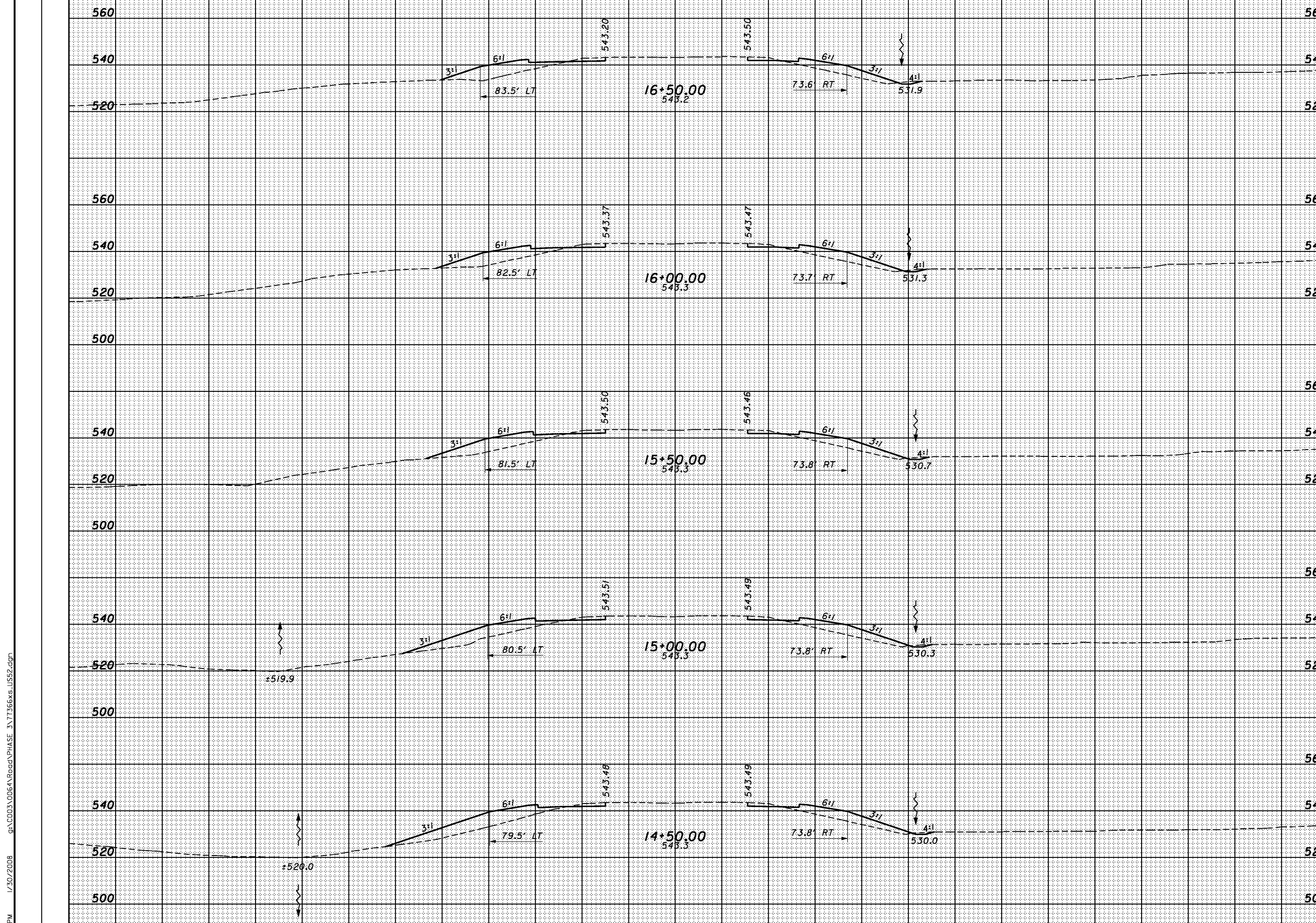
627

4:54:14 PM 1/30/2008 g:\c003\0064\Road\PHASE 3\T13666xs\_LIS52.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  
US52 - STA. 14+50.00 TO STA. 16+50.00

SCI-823-0.00

628

4:54:15 PM 1/30/2008 g:\c003\0064\Road\PHASE 3\171366x\1552.dgn

4:54:16 PM 1/30/2008 g:\C003\0064\Road\PHASE\_3\T13666xs\_LJ552.dgn

SEEDING	
END WIDTH	SO. YDS.

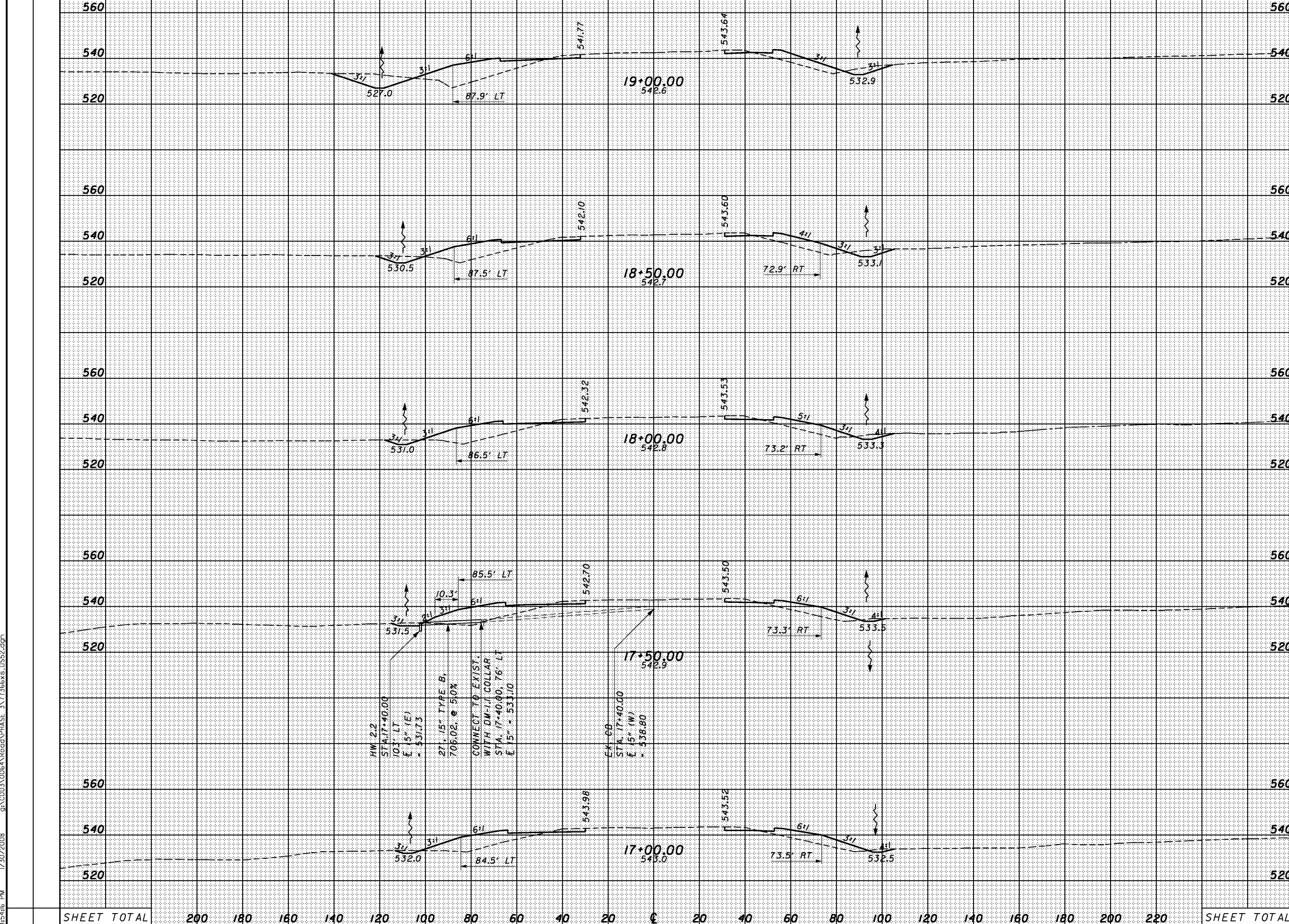
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
US52 - STA. 17+00.00 TO STA. 19+00.00

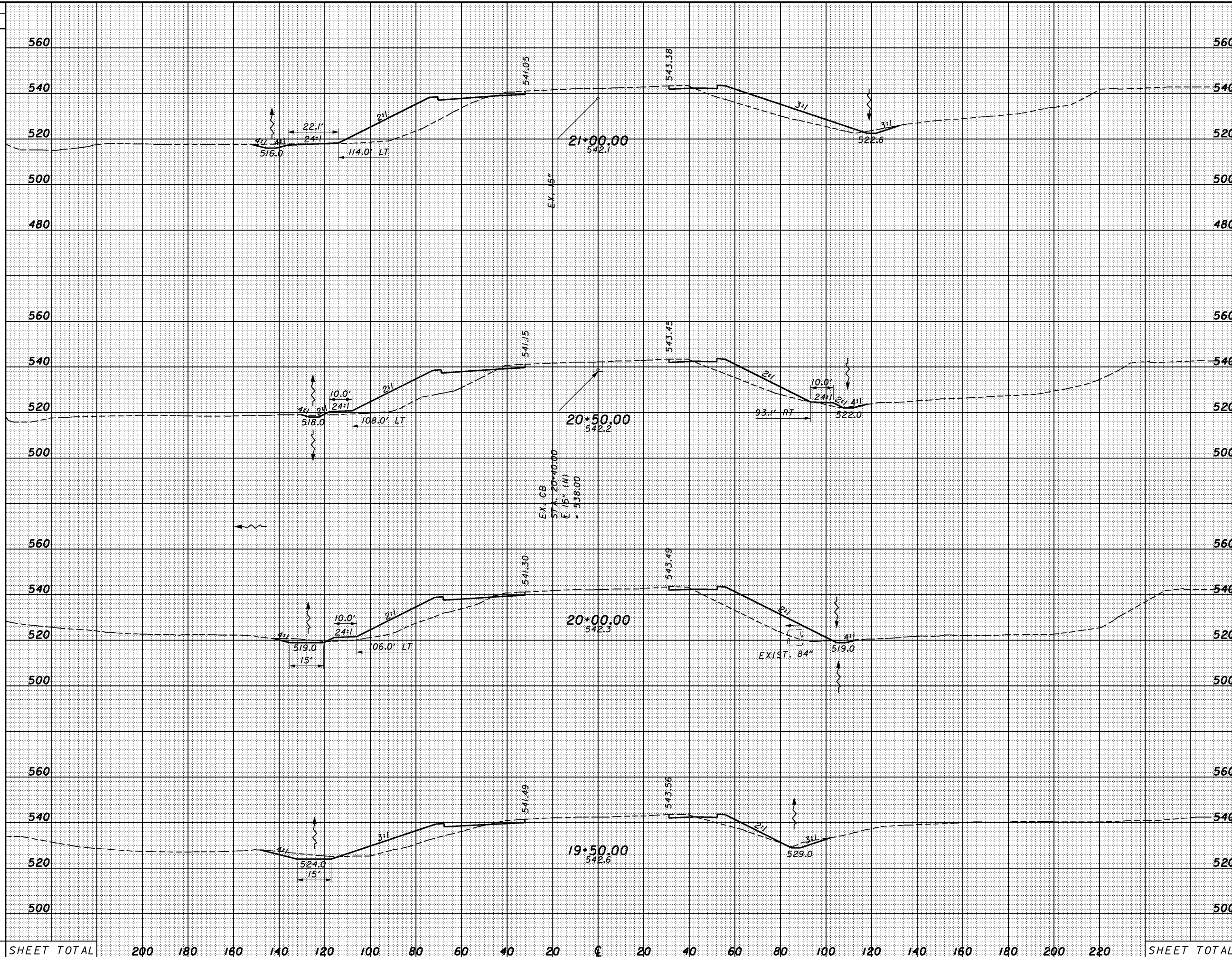
SCI-823-0.00

629



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.  
 4:54:17 PM 1/30/2008 g:\c003\0064\Road\PHASE 3\171366x5\_LIS52.dgn



END	AREA		VOLUME		CALCULATED	CHECKED
	CUT	FILL	CUT	FILL		

**CROSS SECTIONS**  
**US52 - STA. 19+50.00 TO STA. 21+00.00**

**SCI-823-0.00**

630

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



4:54:18 PM 1/30/2008 g:\C003\0064\Road\PHASE 3\T13666xs\_US52.dgn

SEEDING	
END WIDTH	SO. YDS.

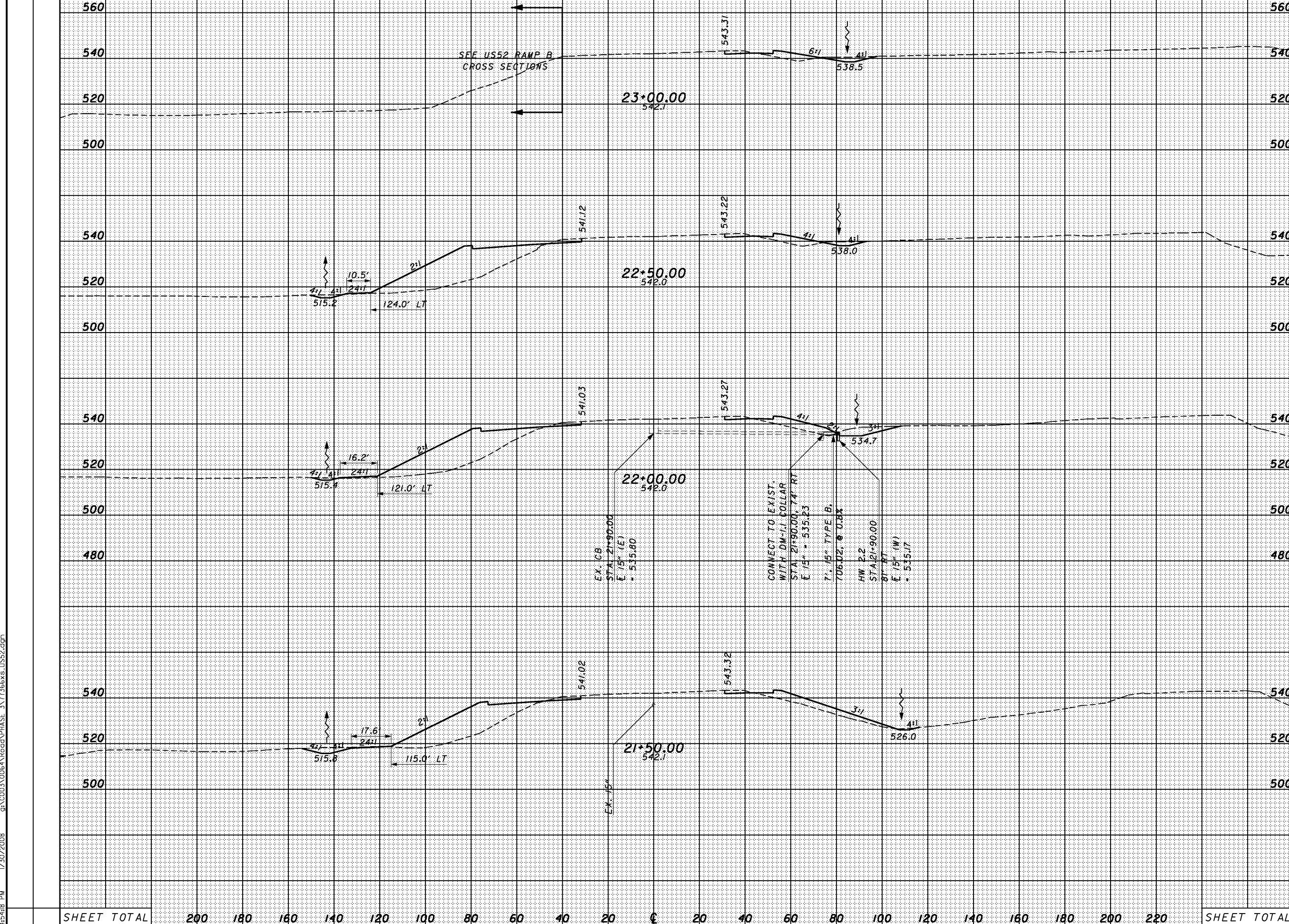
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
US52 - STA. 21+50.00 TO STA. 23+00.00

SCI-823-0.00

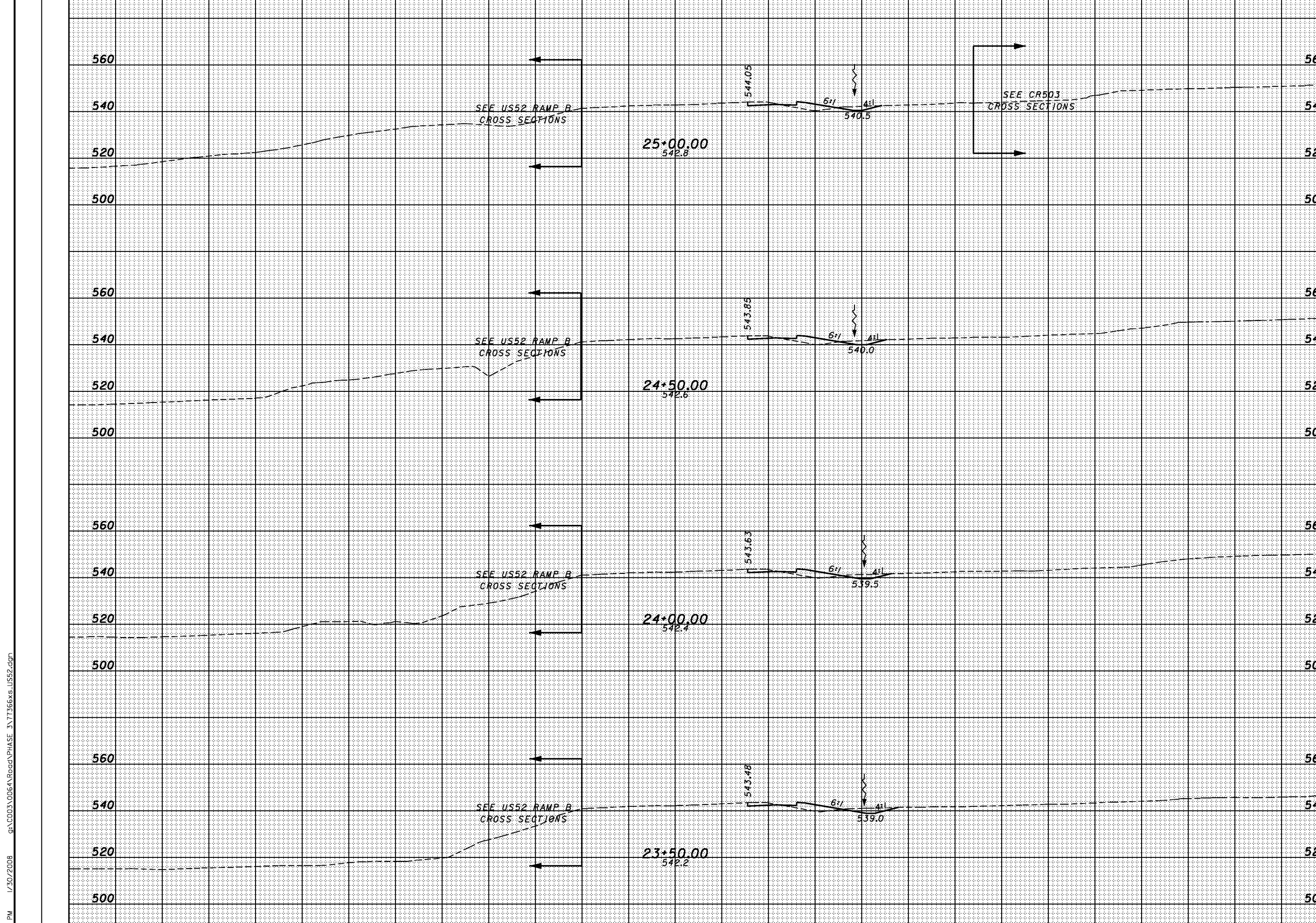
631



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



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  
US52 - STA. 23+50.00 TO STA. 25+00.00

SCI-823-0.00

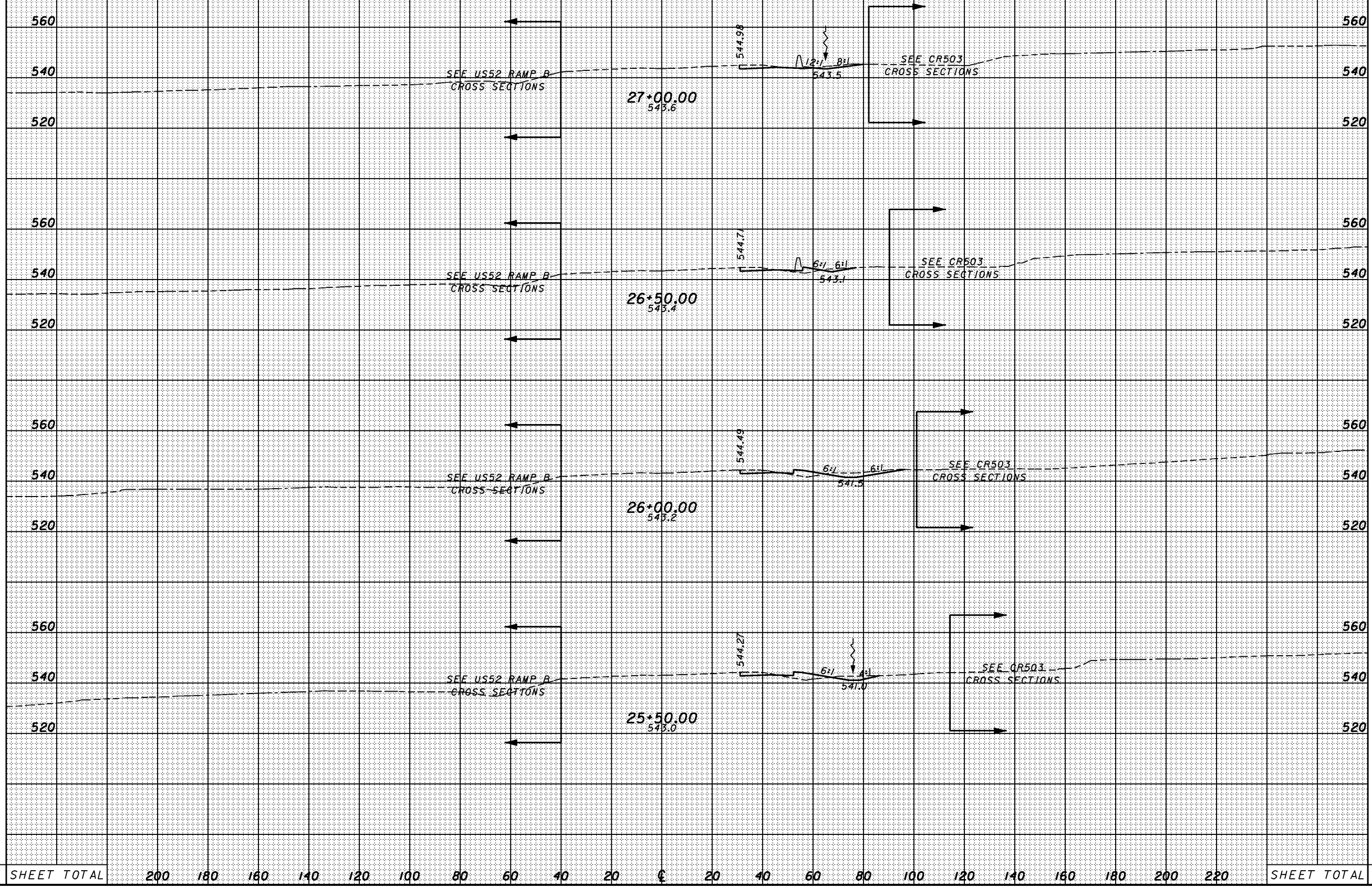
632

4:54:20 PM 1/30/2008 g:\C003\0064\Road\PHASE 3\171366\us\_1j552.dgn

SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

4:54:21 PM 1/30/2008 g:\C003\0064\Road\PHASE\_3\1713666xs\_US52.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  
US52 - STA. 25+50.00 TO STA. 27+00.00

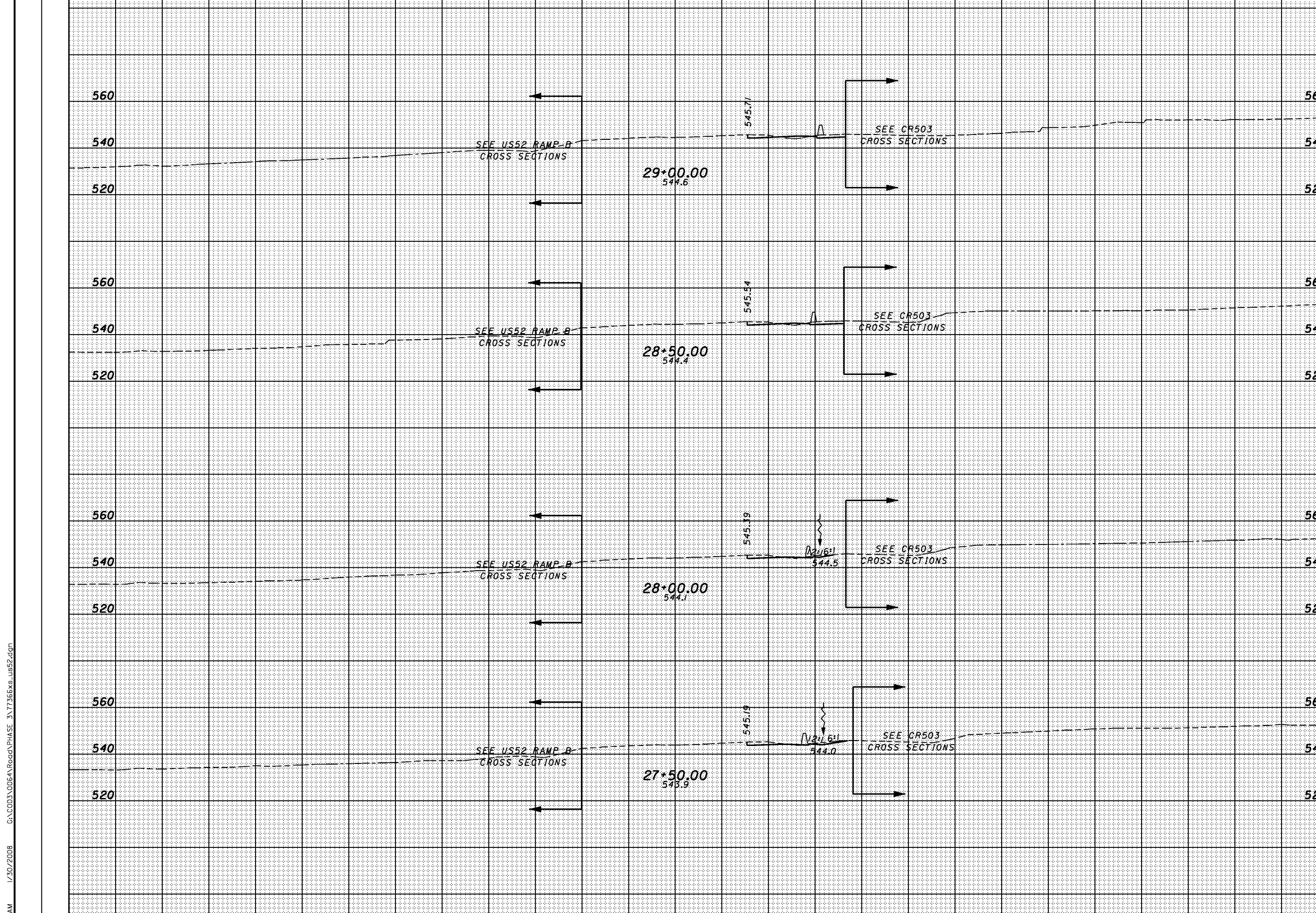
SCI-823-0.00

633



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  
US52 - STA. 27+50.00 TO STA. 29+00.00

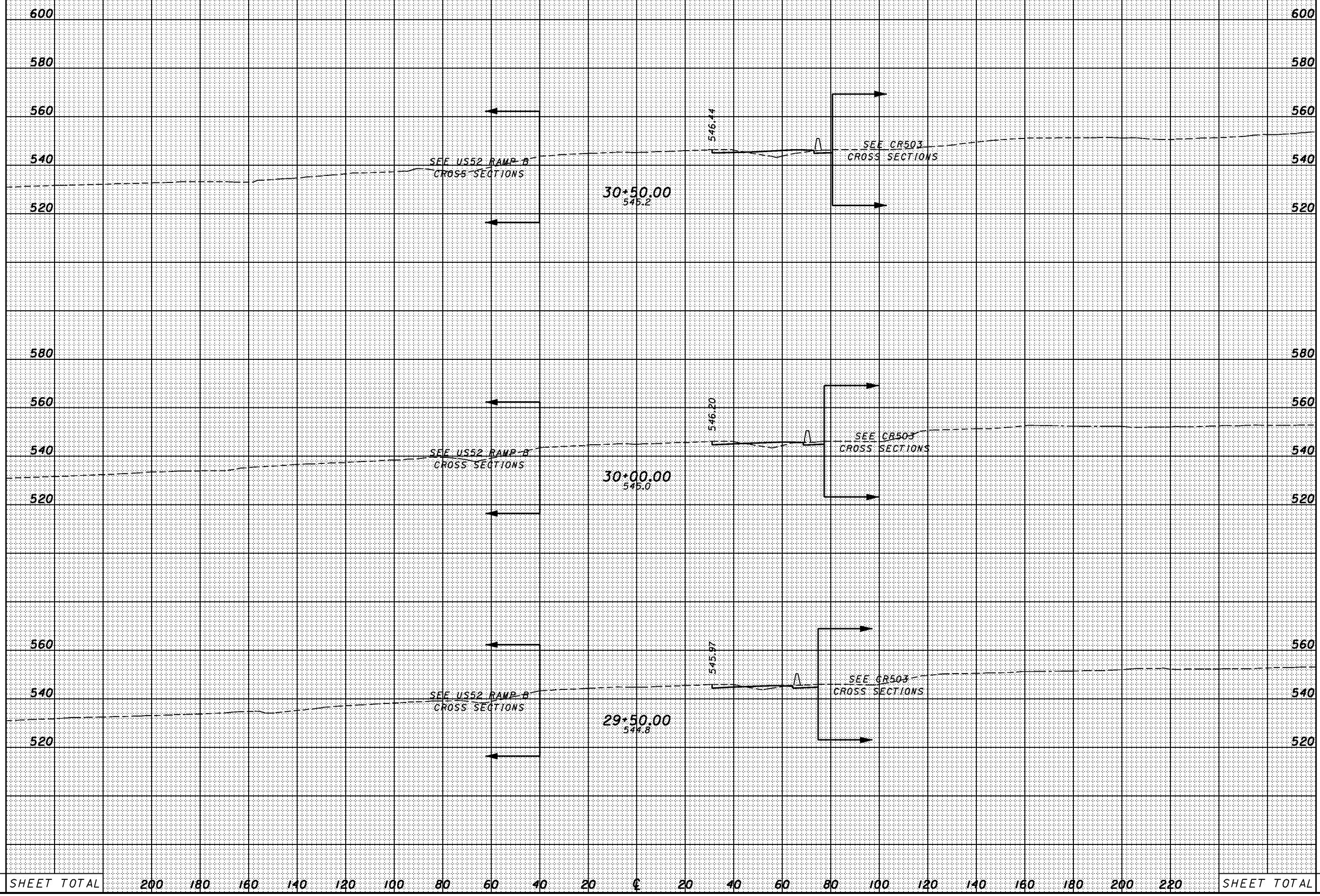
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8/5/314 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-us52.dgn

SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

8:53:45 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-us52.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  
US52 - STA. 29+50.00 TO STA. 30+50.00

SCI-823-0.00

635

8:53:16 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s\_us52.dgn

SEEDING	
END WIDTH	SO. YDS.

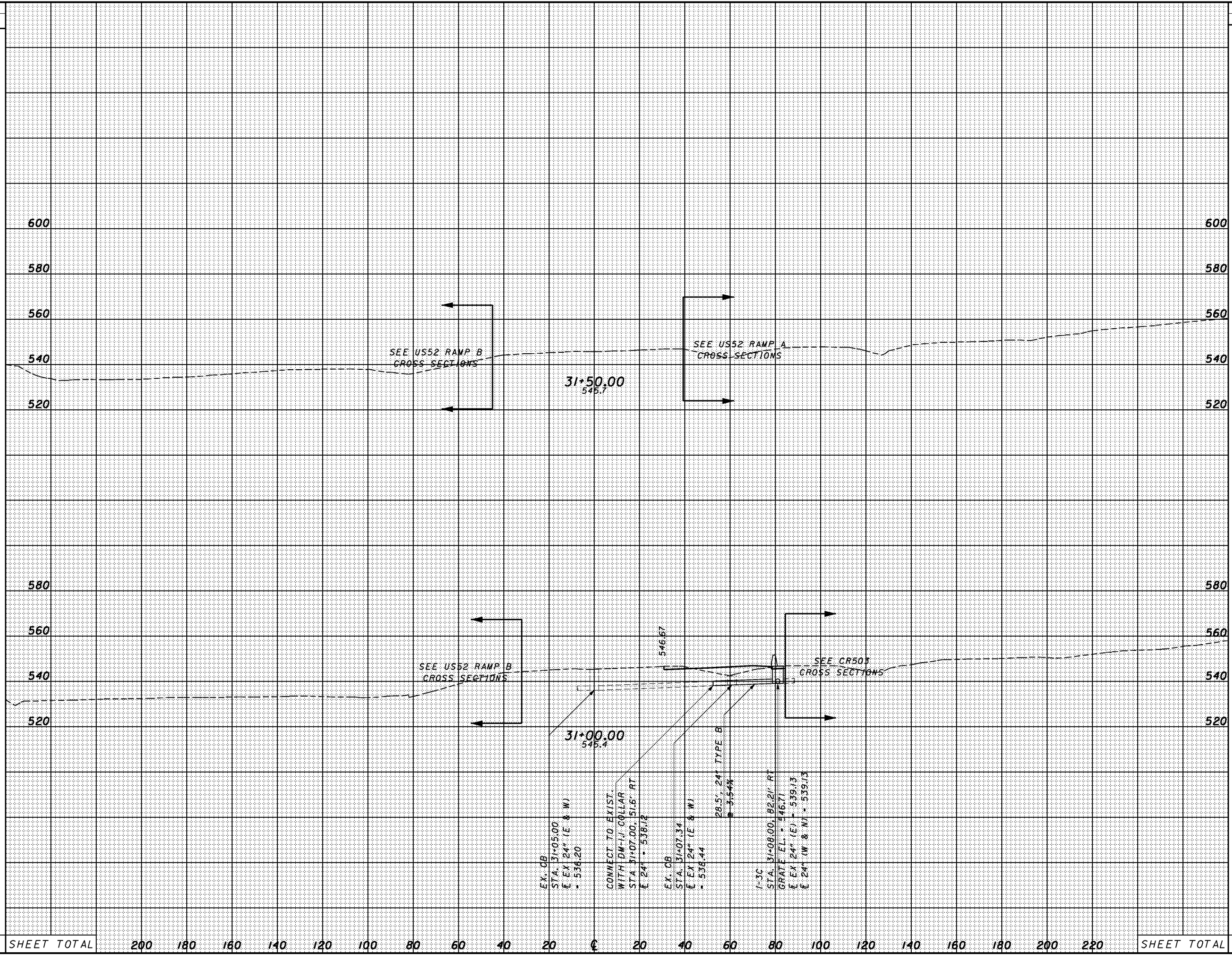
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
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CROSS SECTIONS  
US52 - STA. 31+00.00 TO STA. 31+50.00

SCI-823-0.00

636

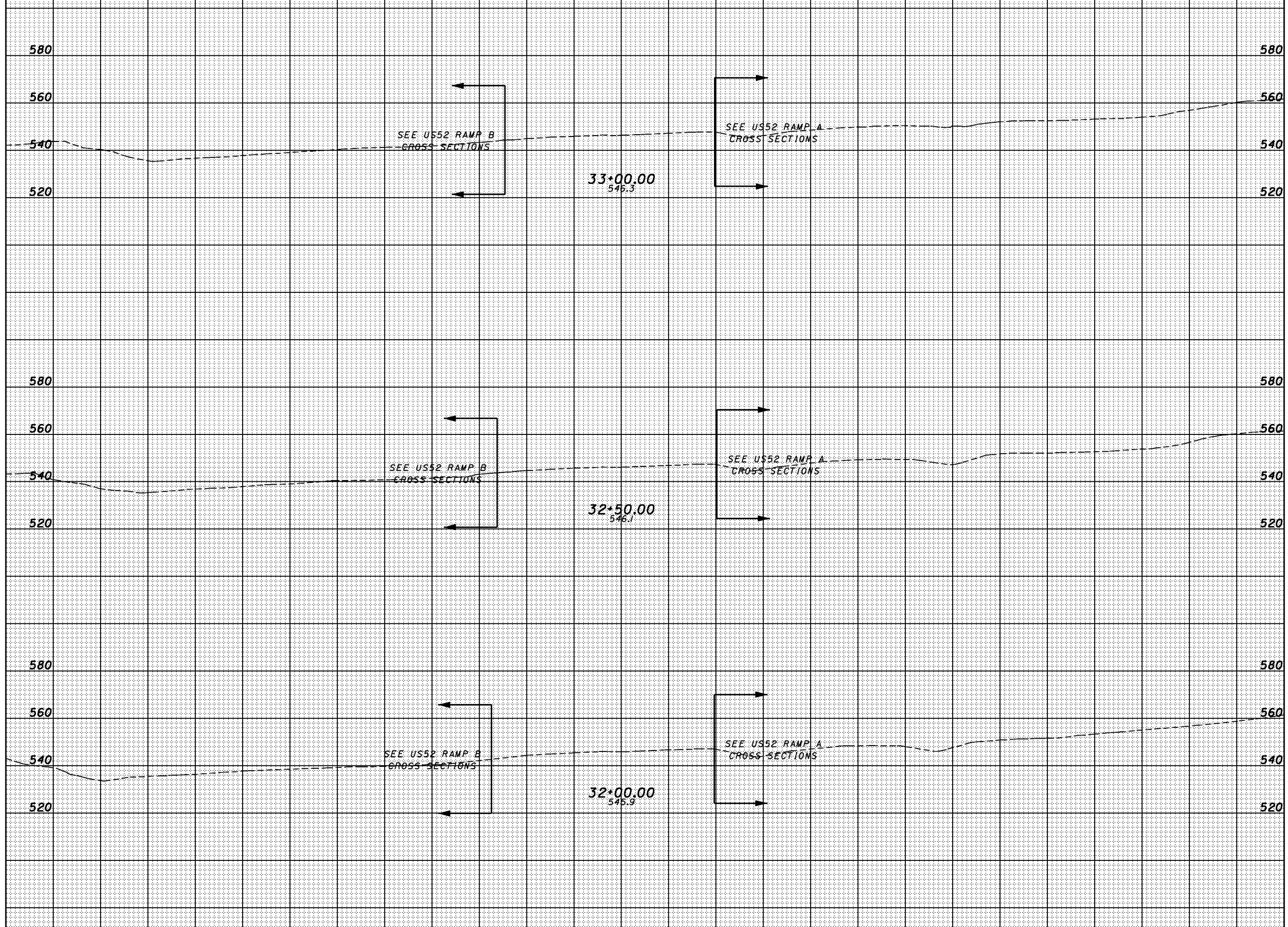


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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SEEDING  
END SO.  
WIDTH YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



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

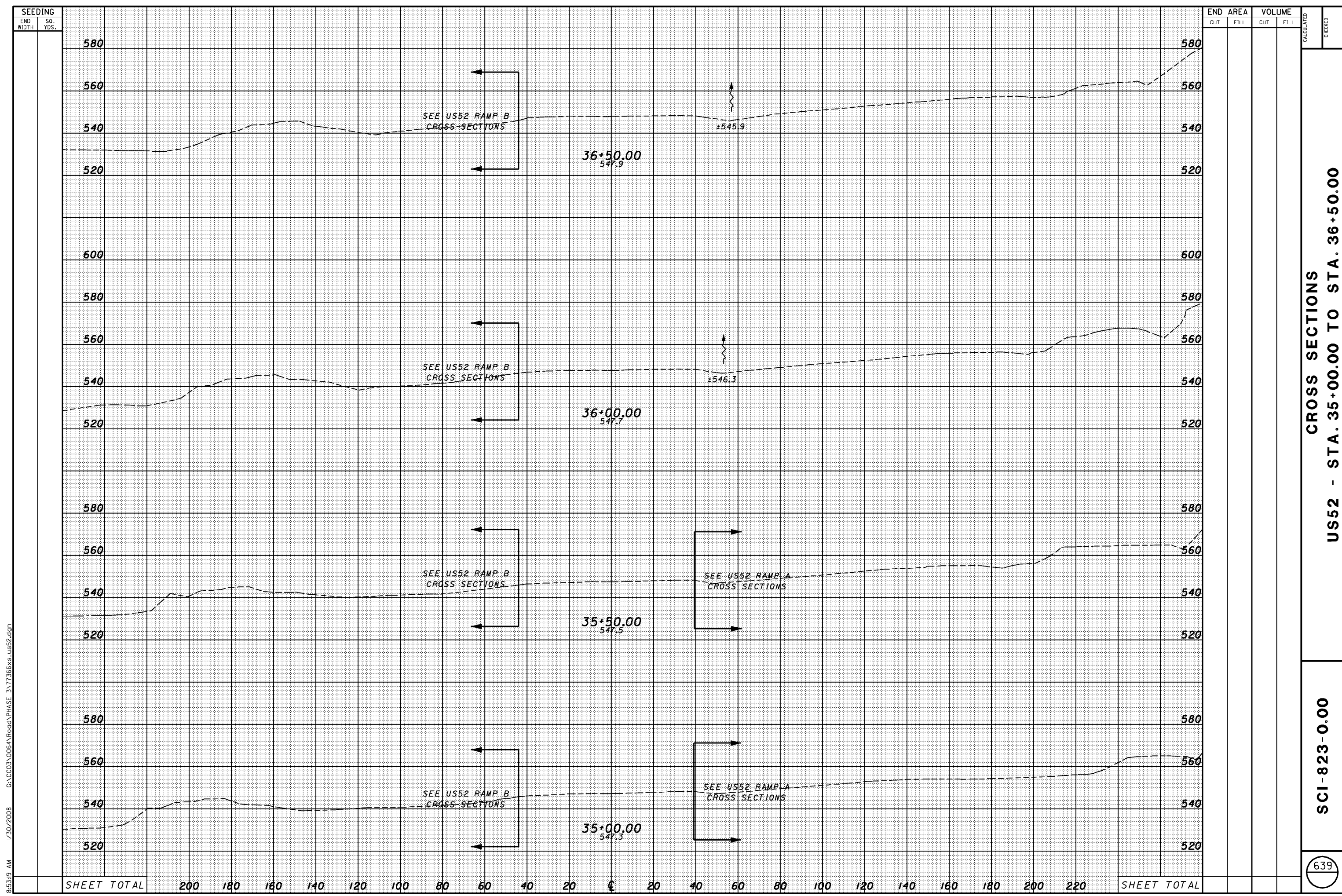
CROSS SECTIONS  
US52 - STA. 32+00.00 TO STA. 33+00.00

SCI-823-0.00

637

8/5/317 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x-US52.dgn





SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

CROSS SECTIONS  
US52 - STA. 35+00.00 TO STA. 36+50.00

SCI-823-0.00

8:53:19 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x\_us52.dgn

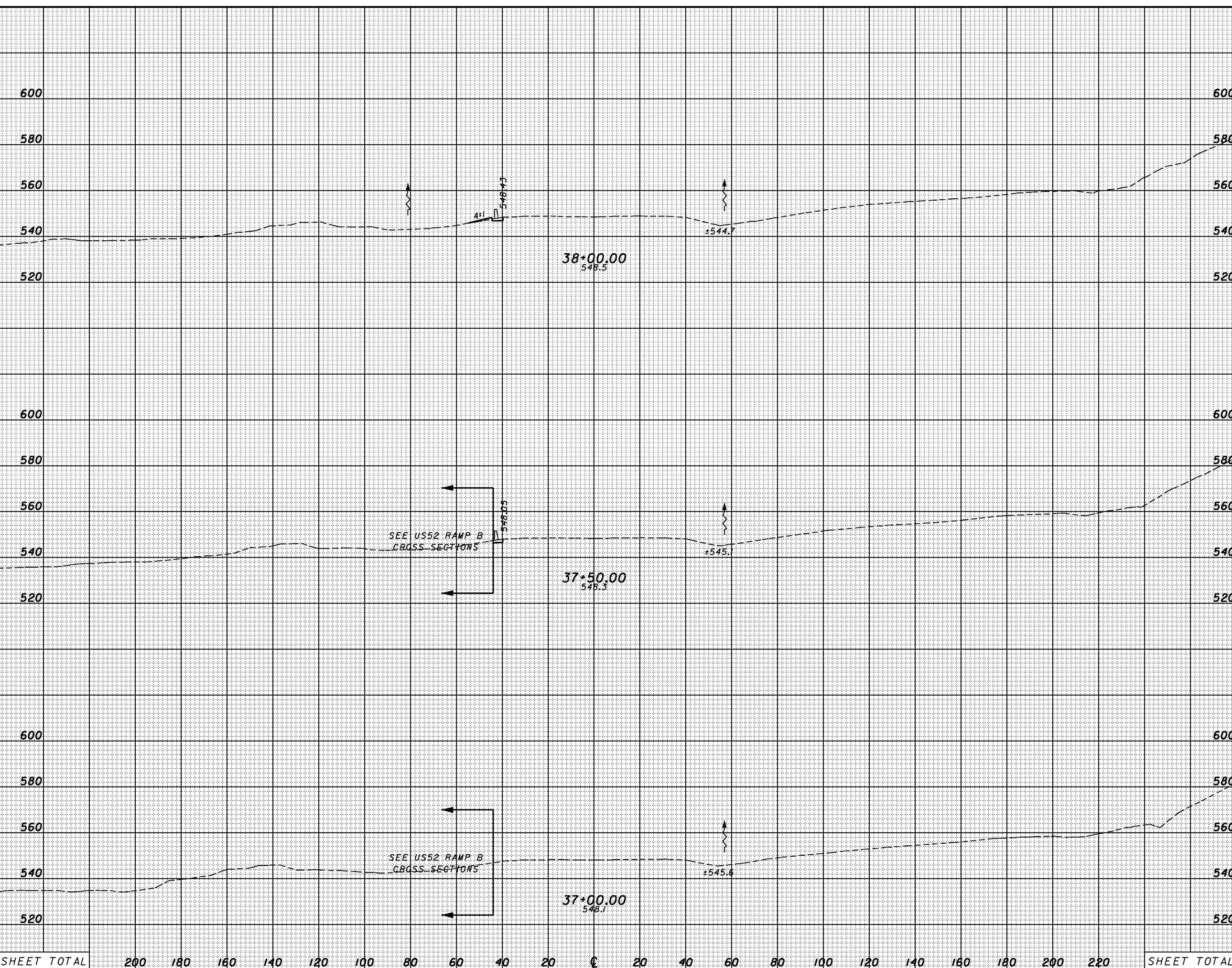
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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8:53:20 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x\_US52.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



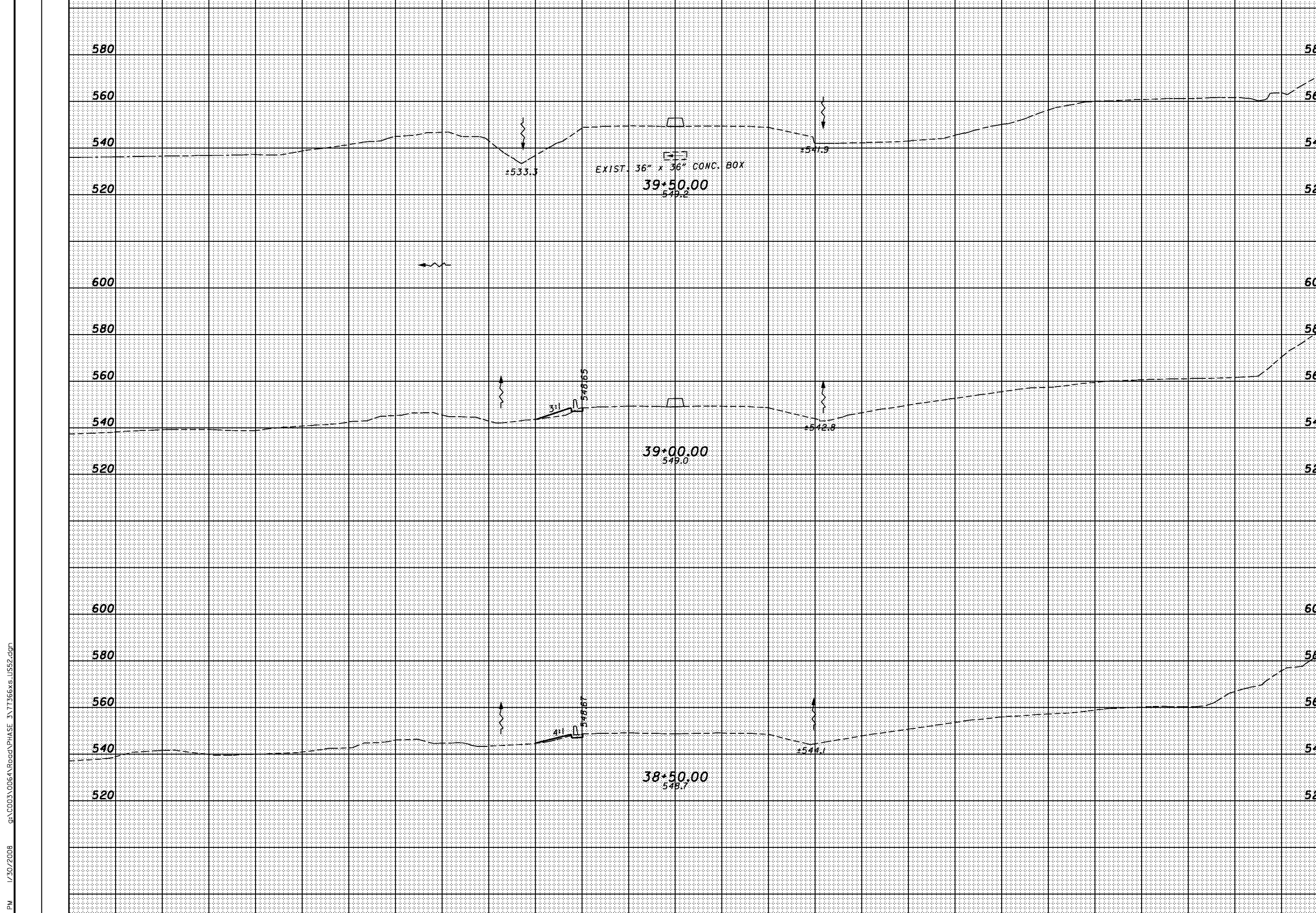
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	0	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS  
US52 - STA. 37+00.00 TO STA. 38+00.00

SCI-823-0.00

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  
US52 - STA. 38+50.00 TO STA. 39+50.00

SCI-823-0.00

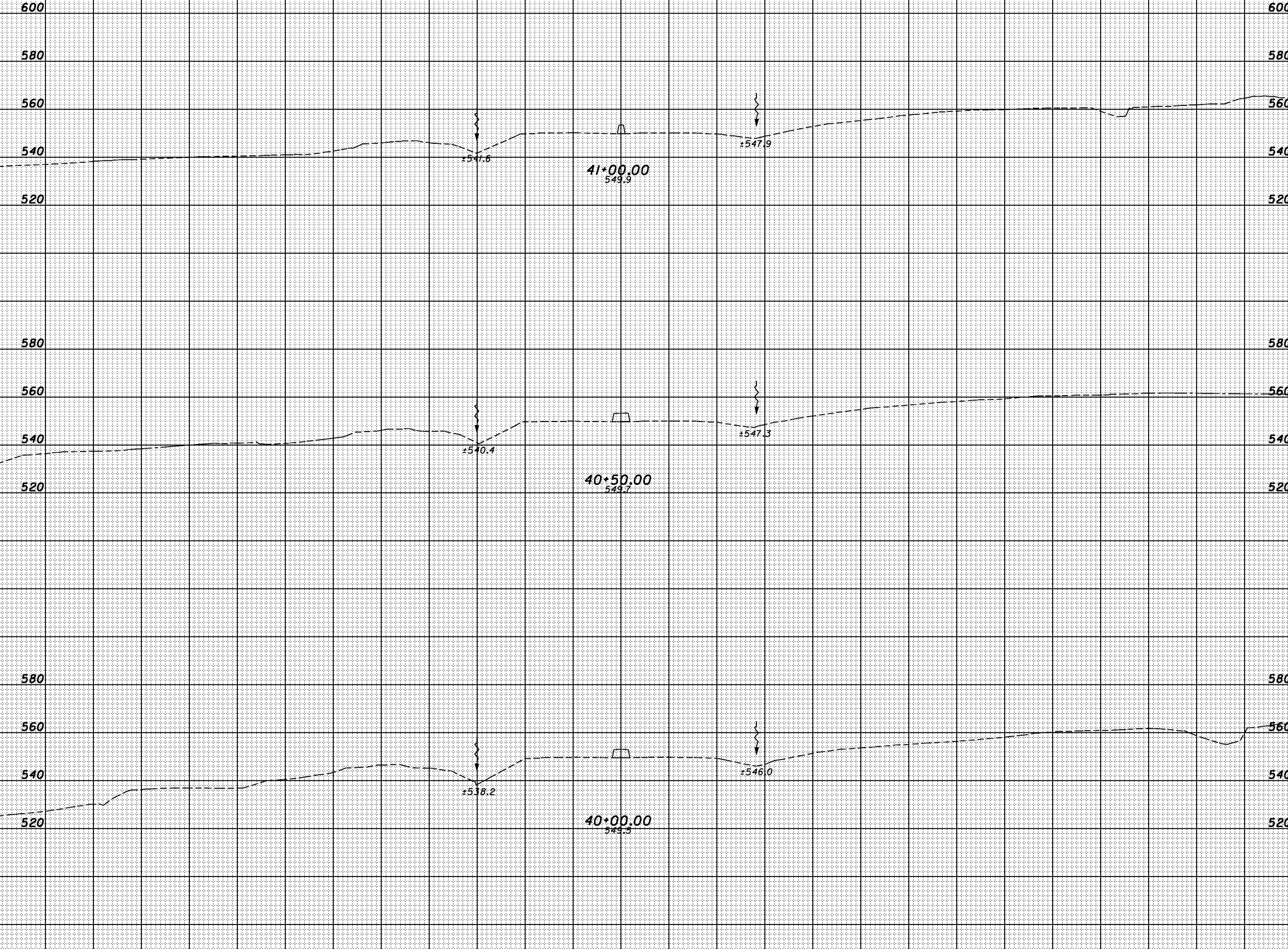
641

3:00:05 PM 1/30/2008 g:\c003\0064\Road\PHASE\_3\T13666xs\_LIS52.dgn

3:00:42 PM 1/30/2008 g:\c003\0064\Road\PHASE 3\1713666xs\_LIS52.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  
US52 - STA. 40+00.00 TO STA. 41+00.00

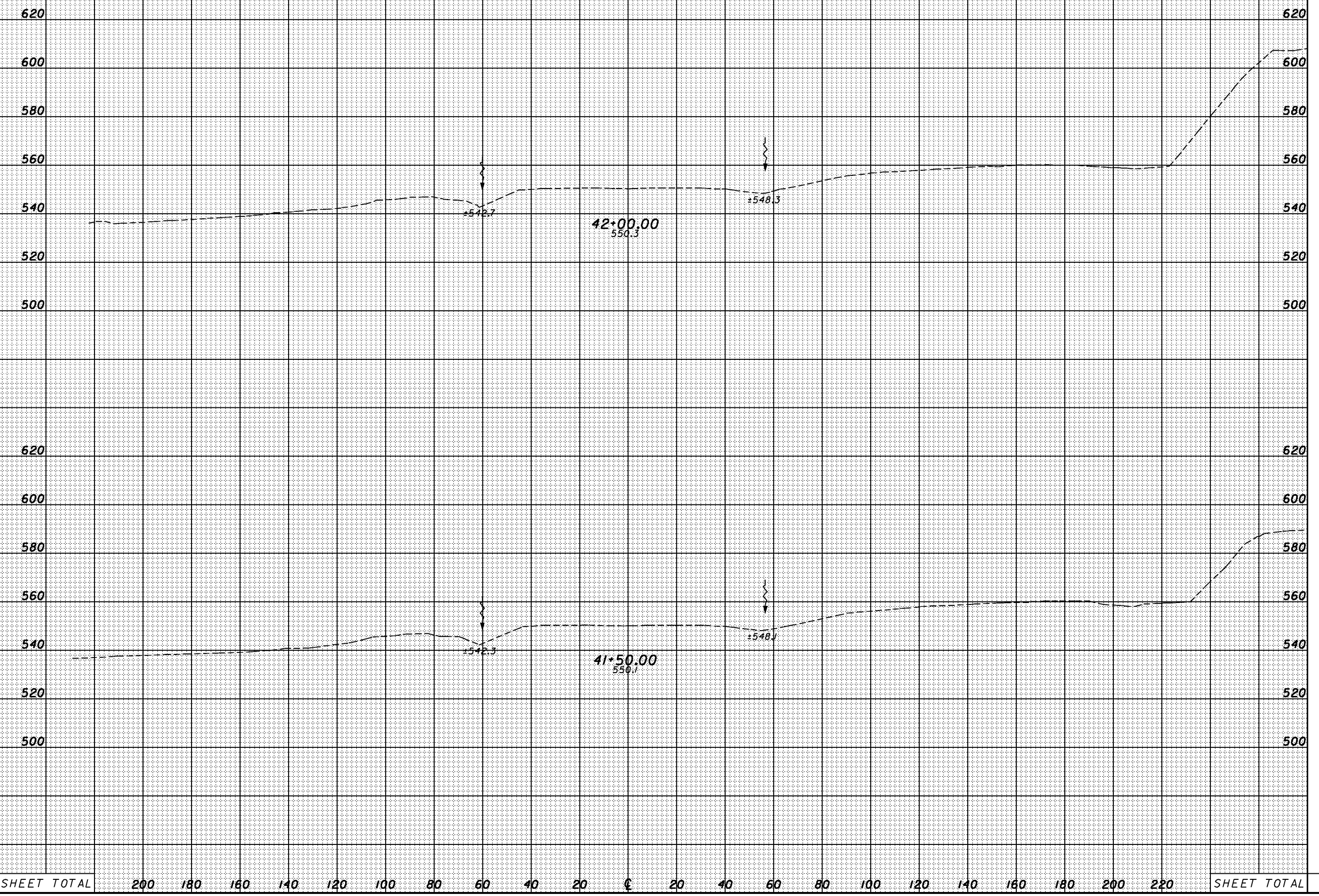
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1/30/2008 3:04:2 PM g:\c003\0064\Road\PHASE\_3\T13666xs\_LIS52.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS  
US52 - STA. 41+50.00 TO STA. 42+00.00

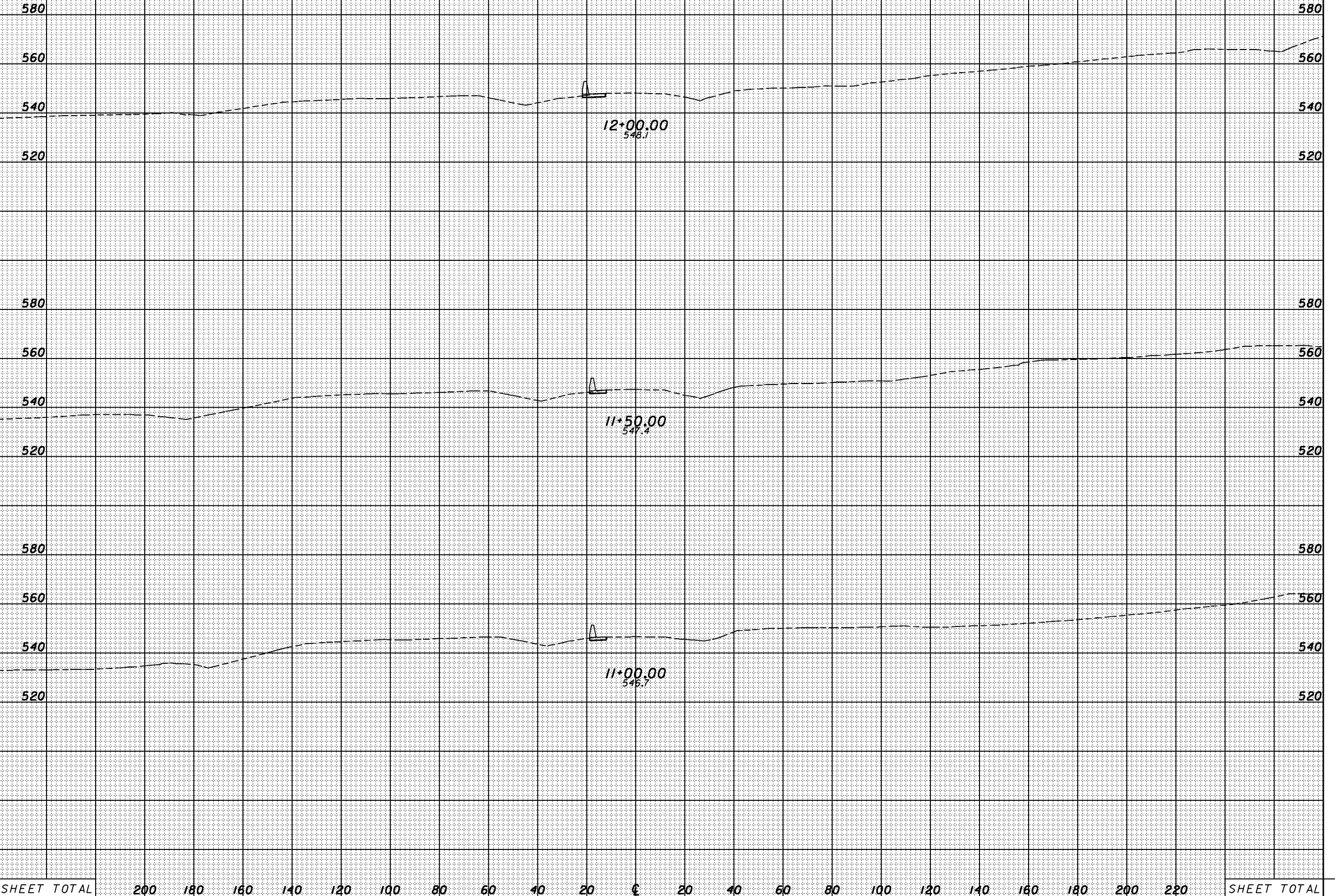
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9:01:58 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s.cr-503.dgn

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  
CR503 - STA. 11+00.00 TO STA. 12+00.00

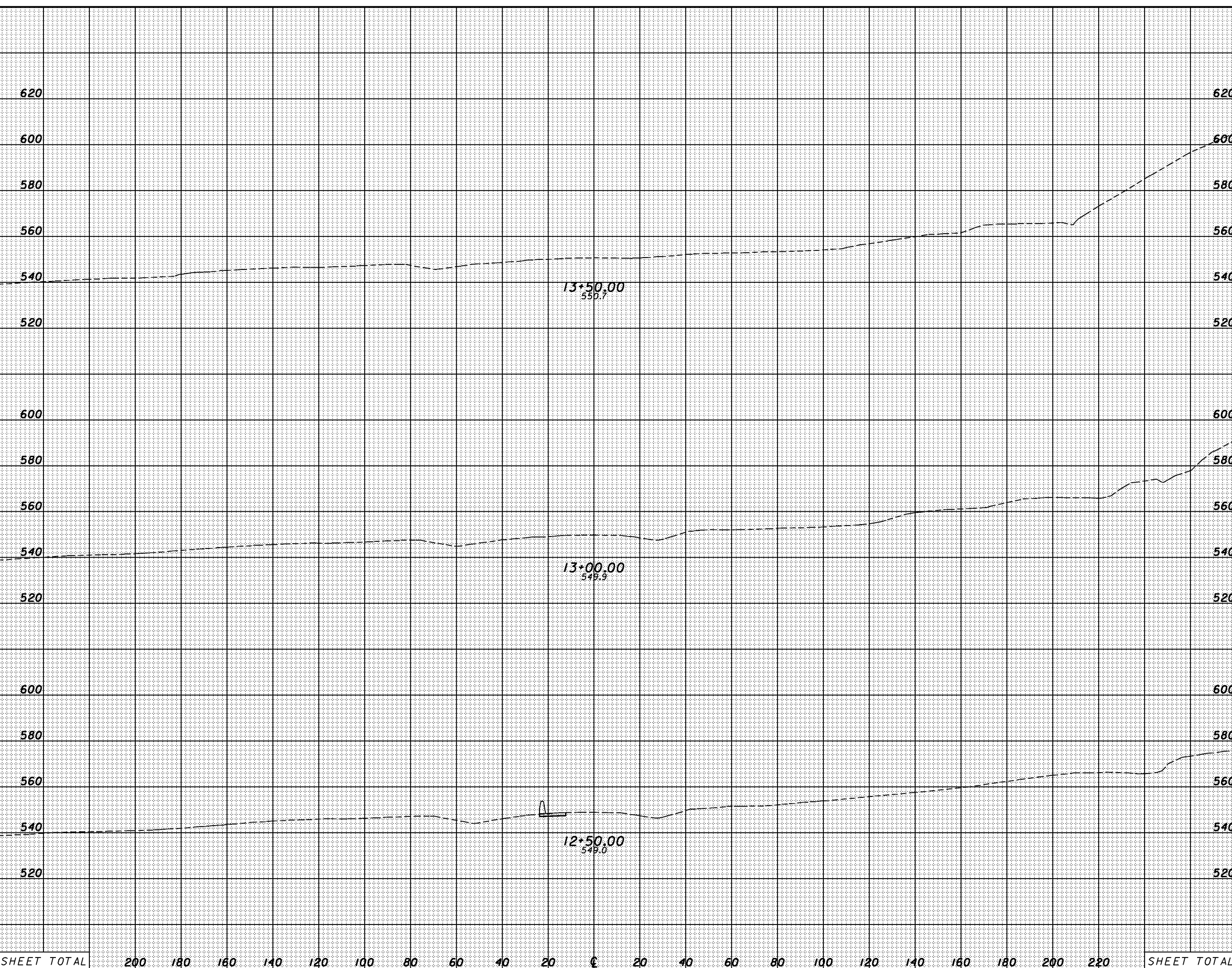
SCI-823-0.00



9:01:59 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668xs\_cr-503.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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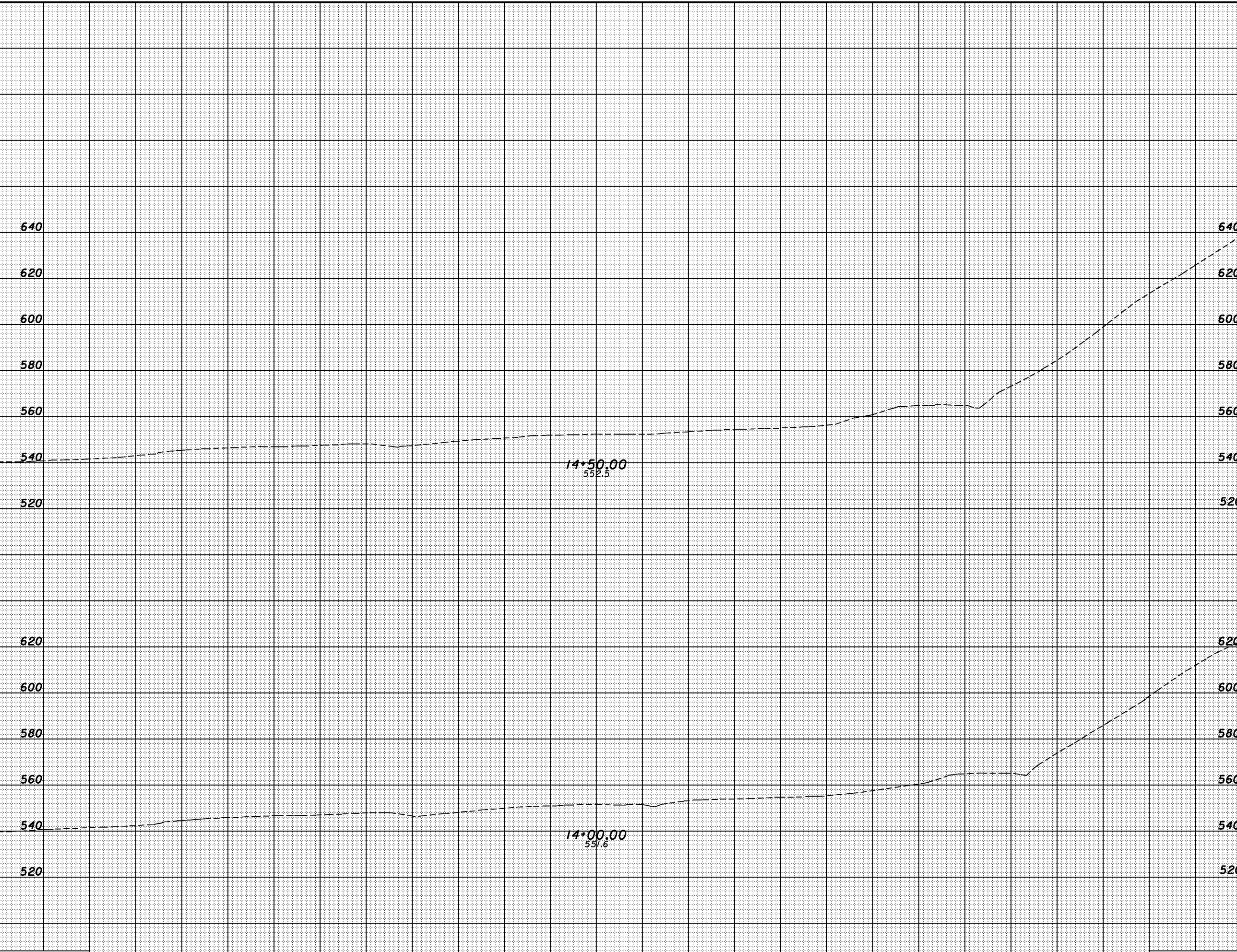
CROSS SECTIONS  
CR503 - STA. 12+50.00 TO STA. 13+50.00

SCI-823-0.00

9:01:40 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s.cr-503.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  
CR503 - STA. 14+00.00 TO STA. 14+50.00

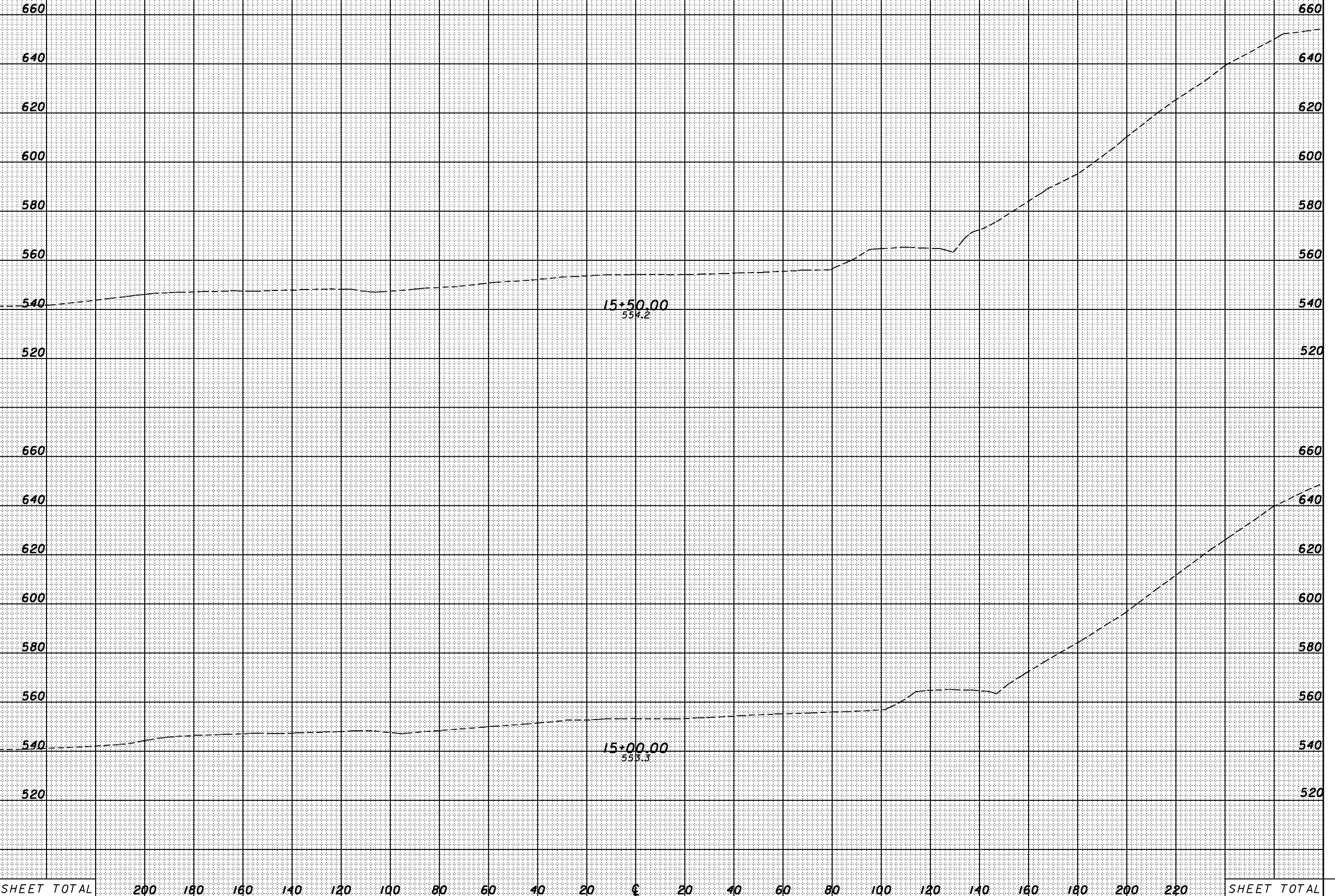
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647

9:01:40 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s.cr-503.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS  
CR503 - STA. 15+00.00 TO STA. 15+50.00

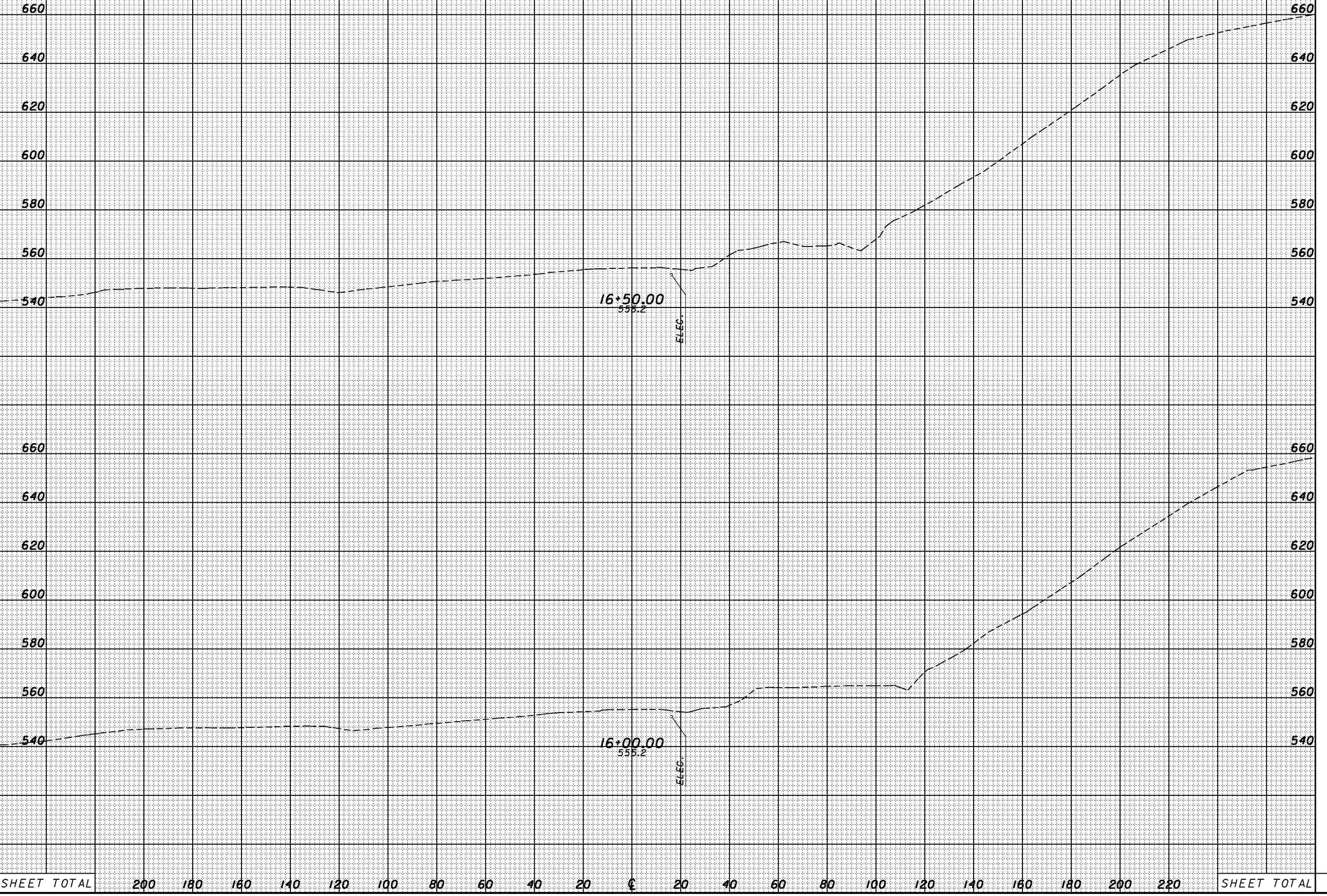
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9:01:41 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s.cr-503.dgn

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

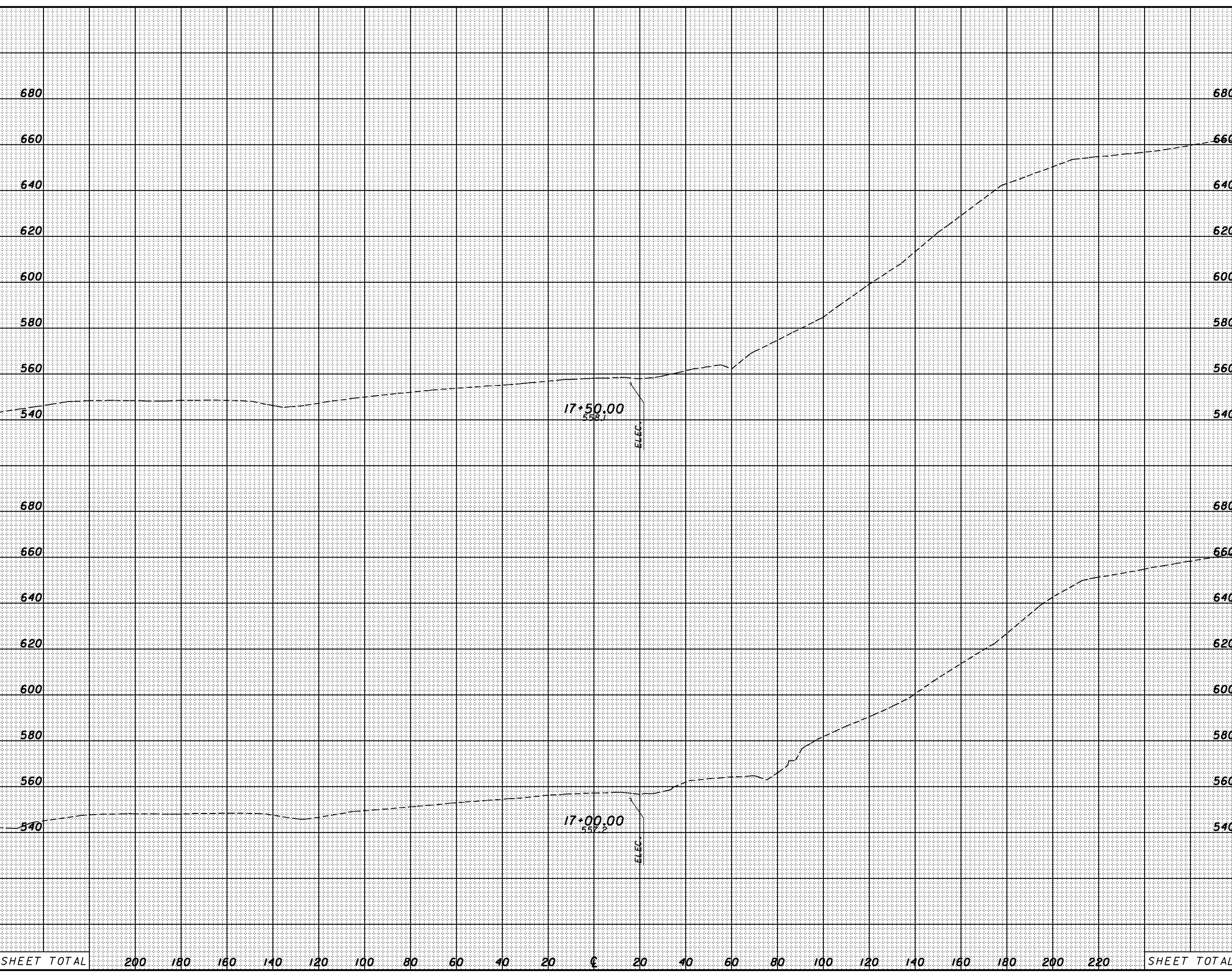
CROSS SECTIONS  
CR503 - STA. 16+00.00 TO STA. 16+50.00

SCI-823-0.00

9:01:42 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366&s.cr-503.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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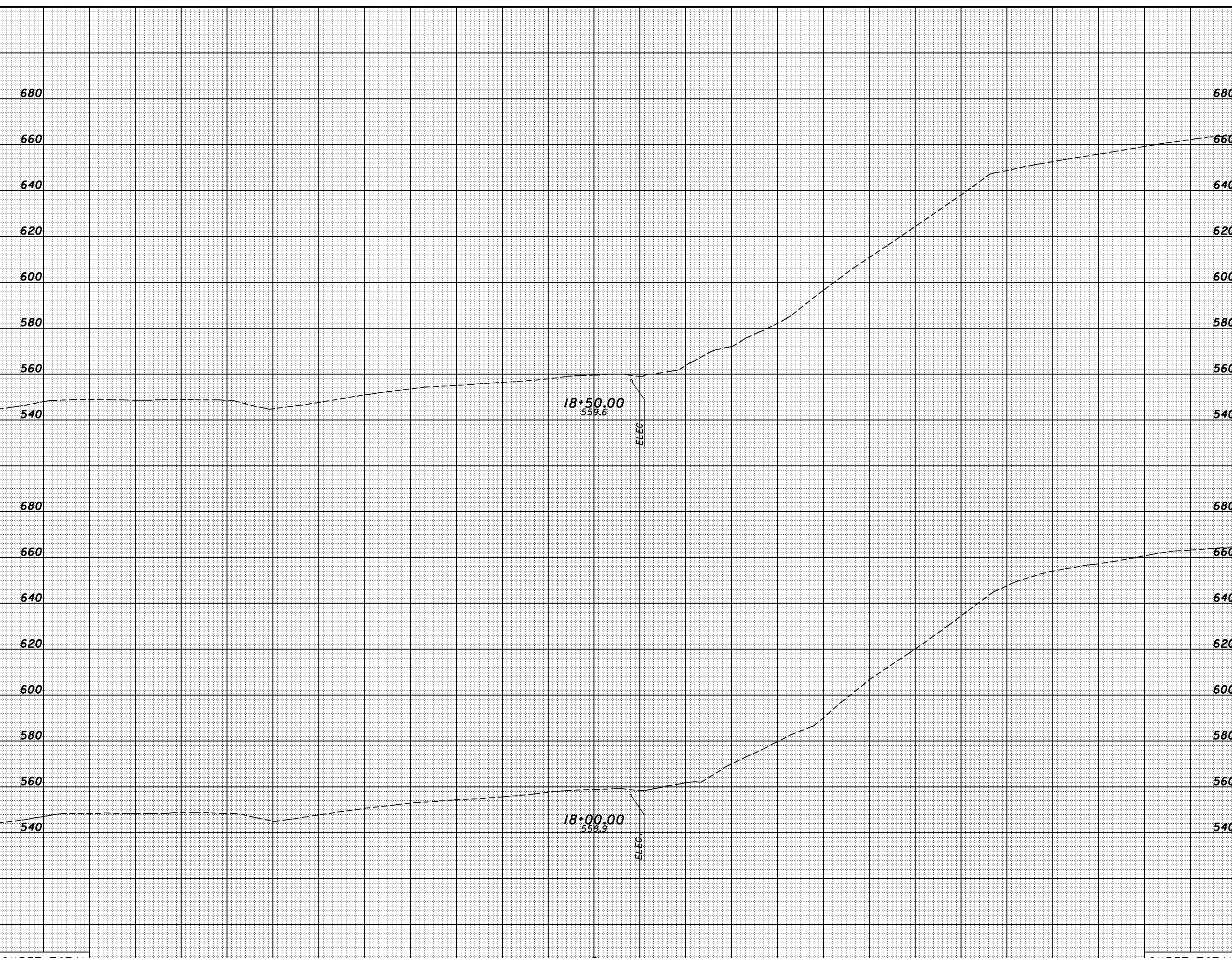
CROSS SECTIONS  
CR503 - STA. 17+00.00 TO STA. 17+50.00

SCI-823-0.00

9:01:43 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s.cr-503.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  
CR503 - STA. 18+00.00 TO STA. 18+50.00

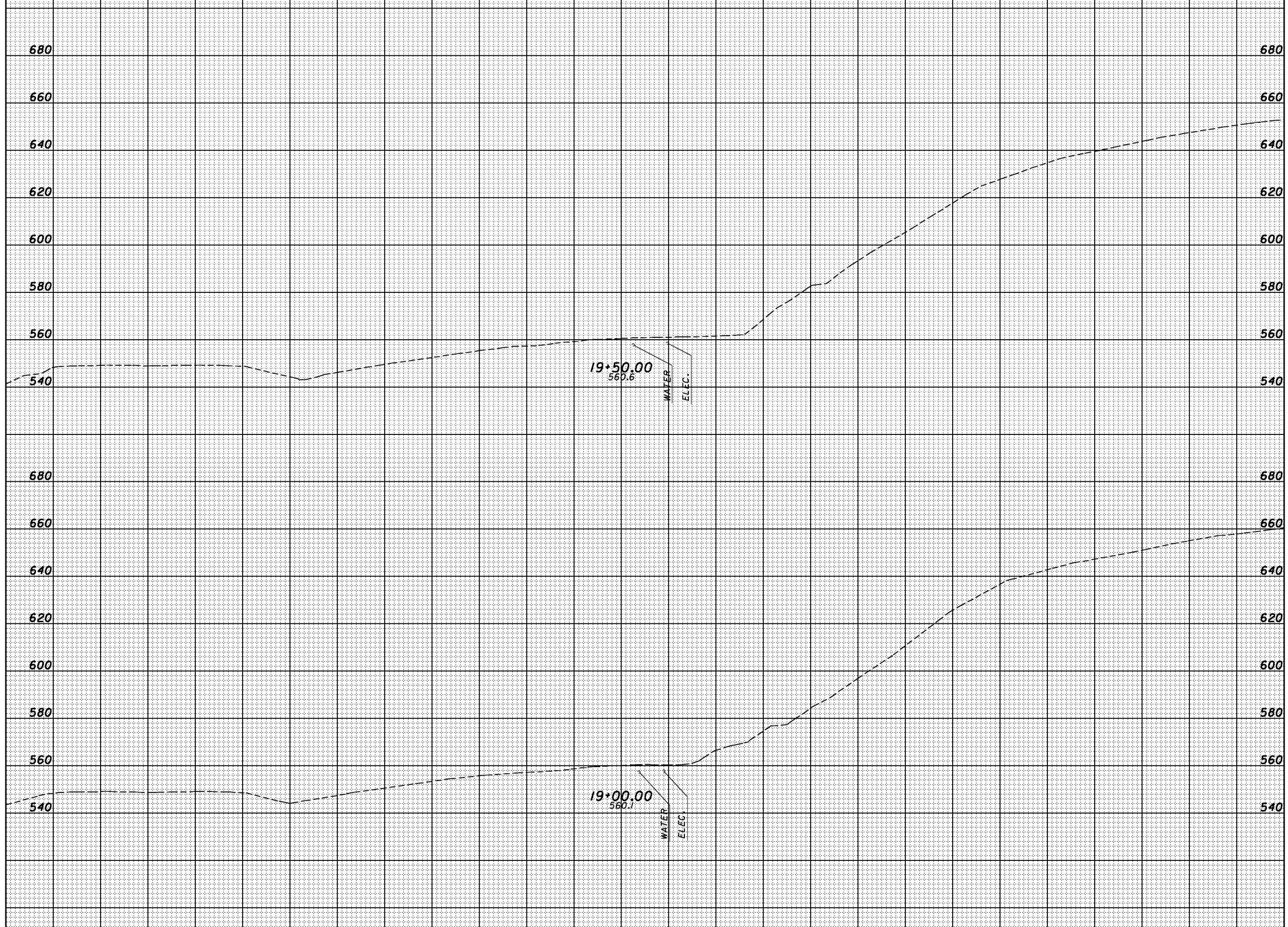
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9:01:44 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x.cr-503.dgn

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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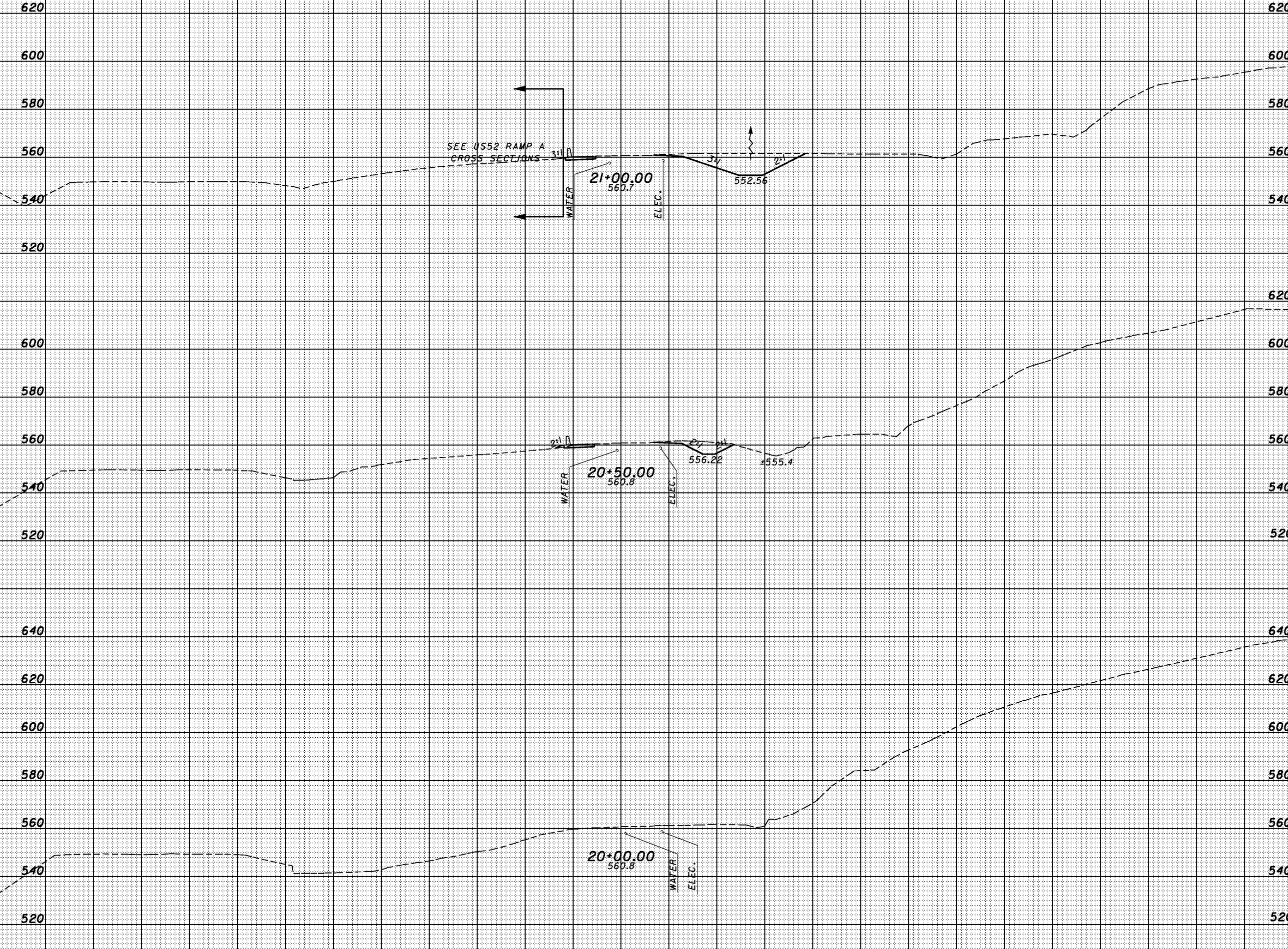
CROSS SECTIONS  
CR503 - STA. 19+00.00 TO STA. 19+50.00

SCI-823-0.00

9:01:45 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x.cr-503.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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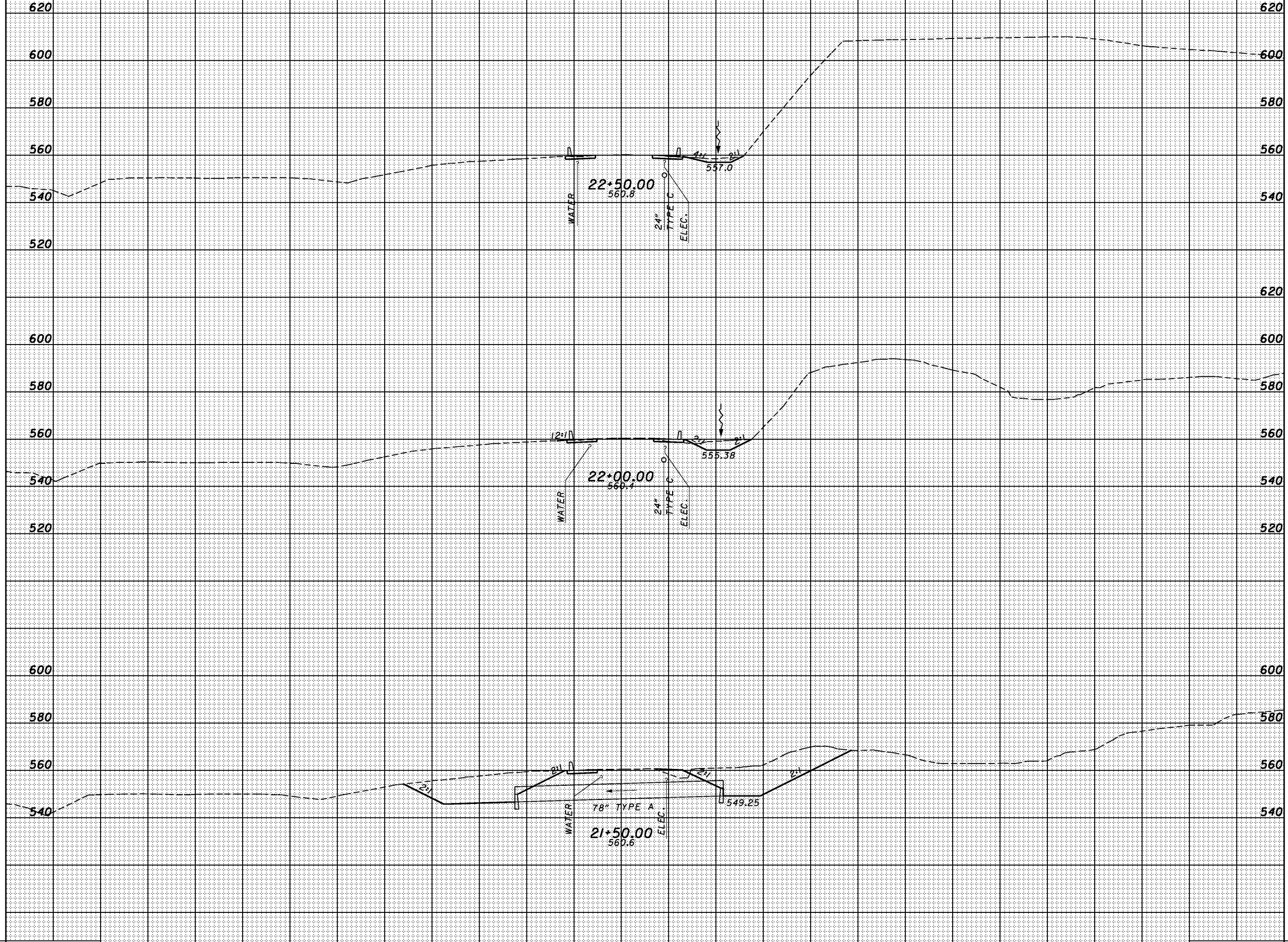
CROSS SECTIONS  
CR503 - STA. 20+00.00 TO STA. 21+00.00

SCI-823-0.00

9:01:45 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x.cr-503.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  
CR503 - STA. 21+50.00 TO STA. 22+50.00

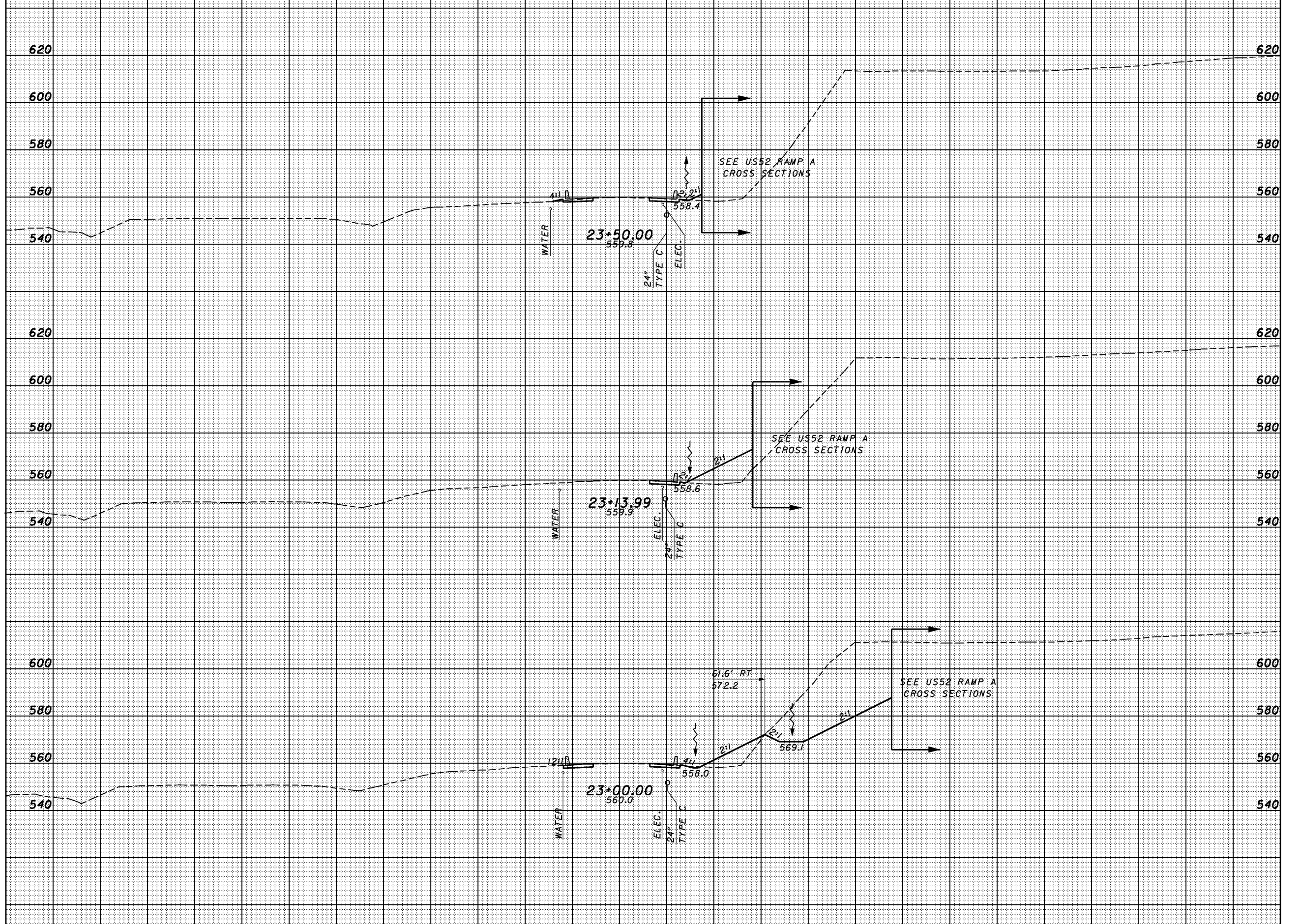
SCI-823-0.00



SEEDING  
END SO.  
WIDTH YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

9:01:46 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668xs\_cr-503.dgn



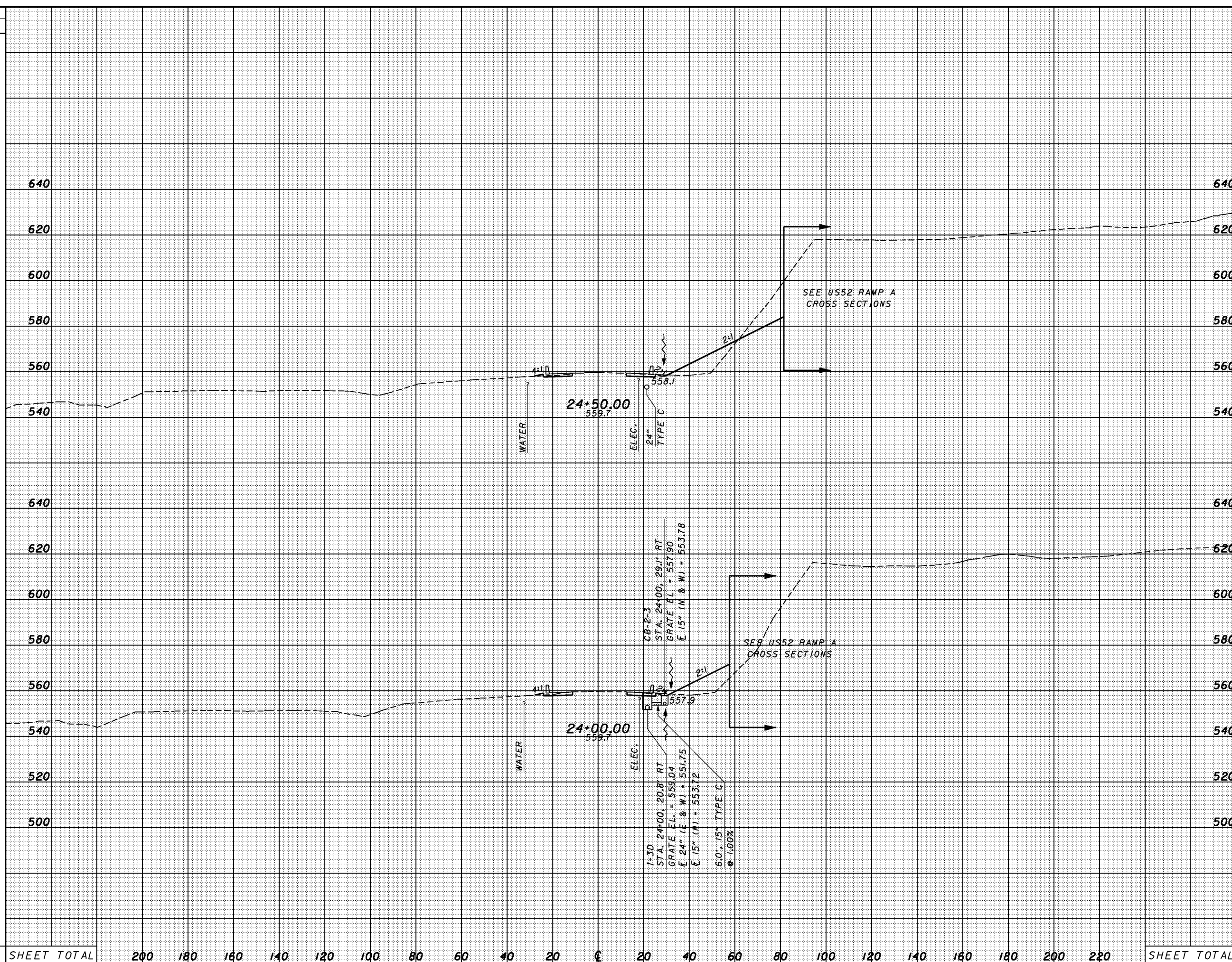
SHEET TOTAL 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 SHEET TOTAL

CROSS SECTIONS  
CR503 - STA. 23+00.00 TO STA. 23+50.00  
SCI-823-0.00

9:01:47 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s.cr-503.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



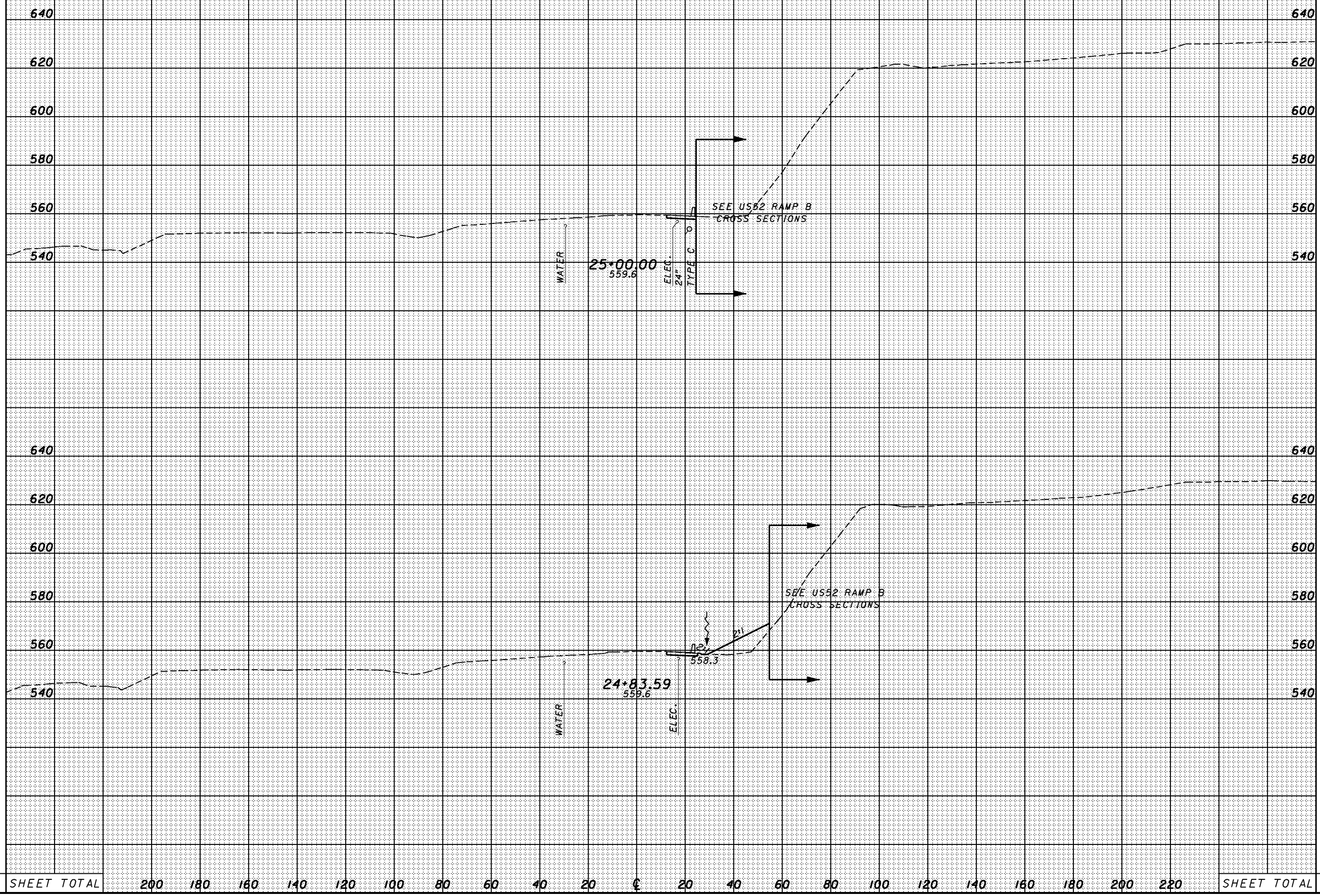
CROSS SECTIONS  
CR503 - STA. 24+00.00 TO STA. 24+50.00

SCI-823-0.00

9:01:48 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x.cr-503.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  
CR503 - STA. 24+83.59 TO STA. 25+00.00

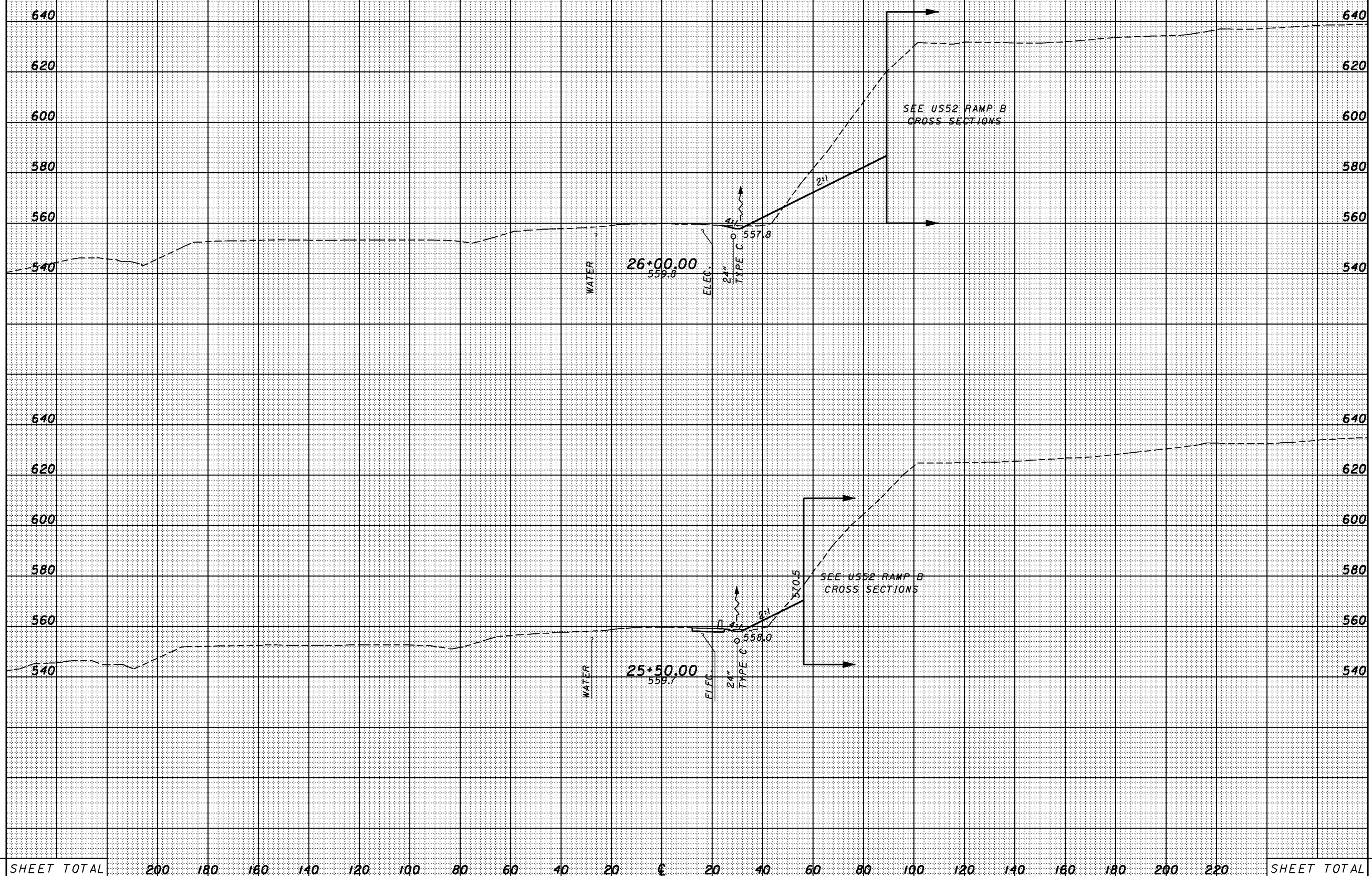
SCI-823-0.00



9:01:49 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s.cr\503.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS  
CR503 - STA. 25+50.00 TO STA. 26+00.00

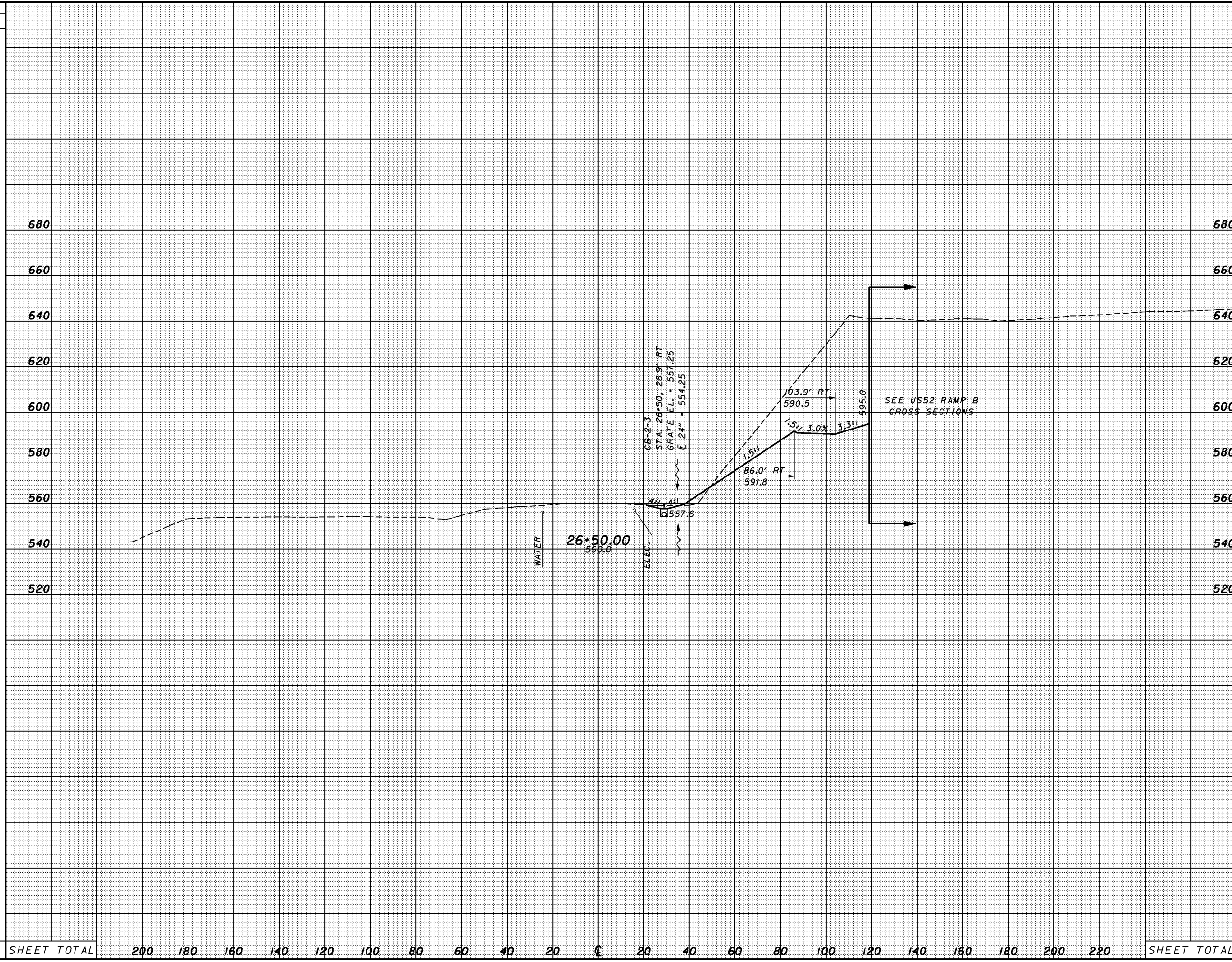
SCI-823-0.00

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  
CUT FILL CUT FILL  
CALCULATED CHECKED

9:01:50 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366xs\_cr-503.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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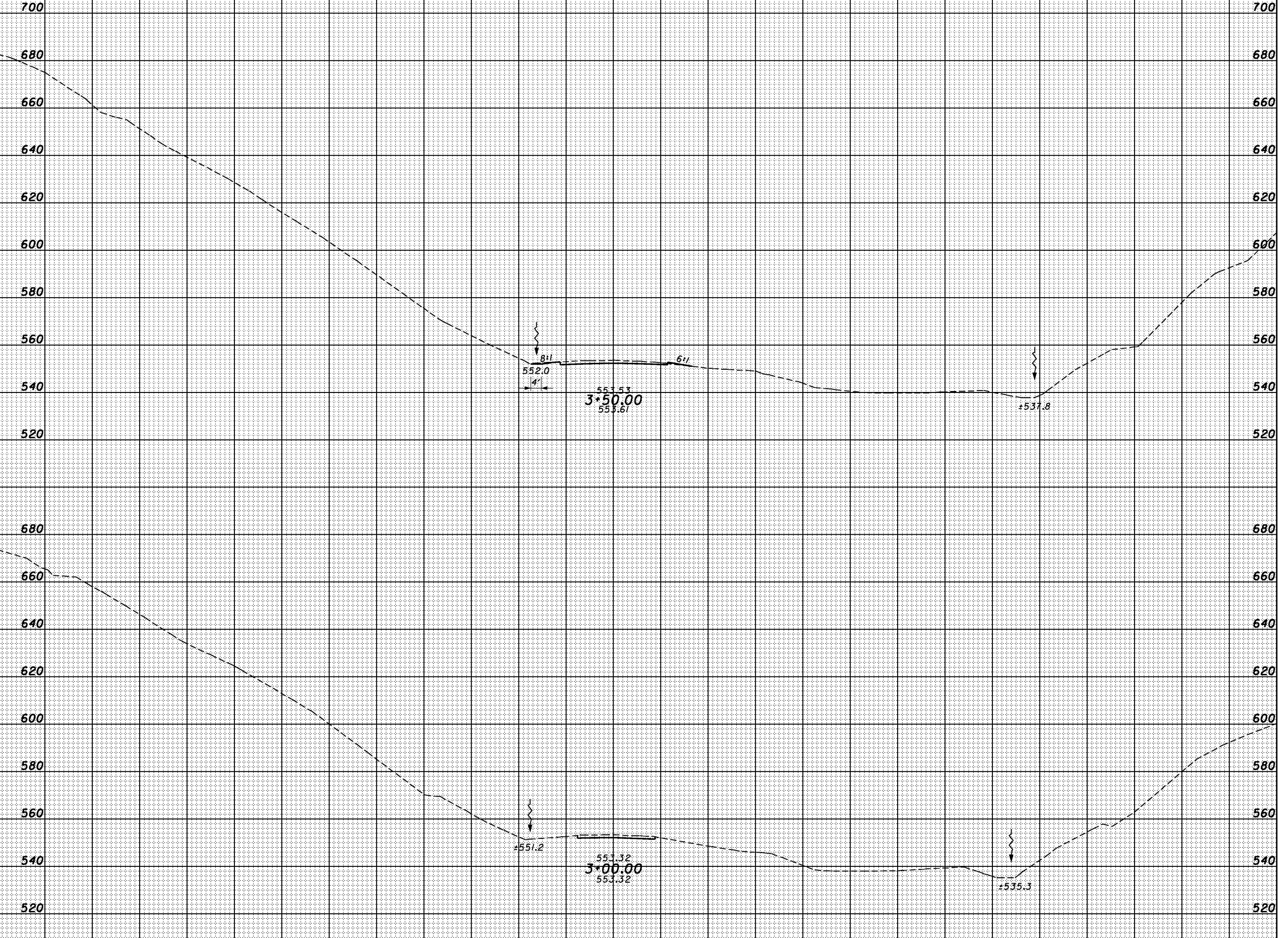
**CROSS SECTIONS  
CR503 - STA. 26+50.00**

**SCI-823-0.00**

9:00:53 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x.sr-140.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  
SR140 - STA. 3+00.00 TO STA. 3+50.00

SCI-823-0.00

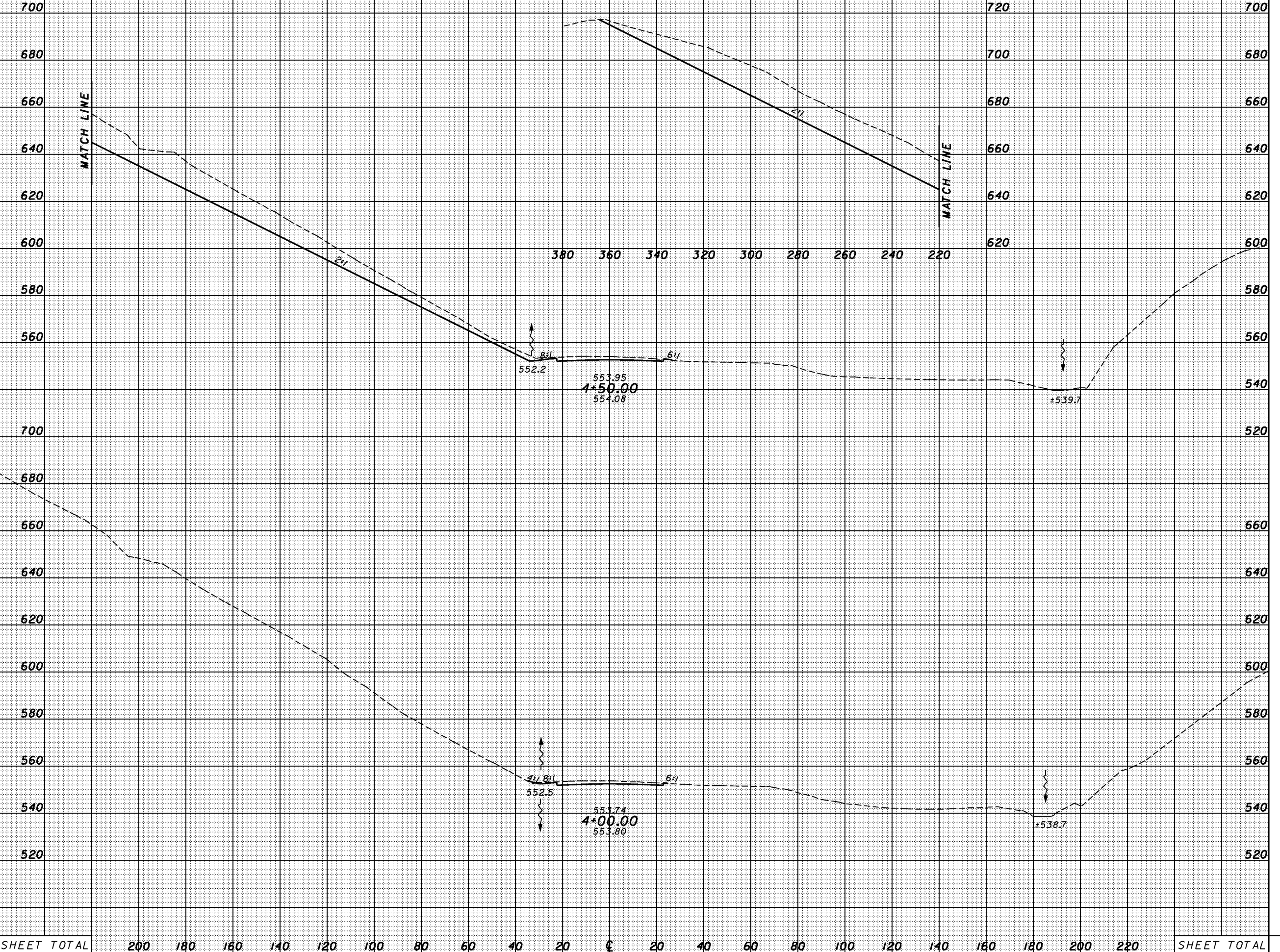
660



9:00:53 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713666666.srf-140.dgn

SEEDING	
END WIDTH	SO. YDS.

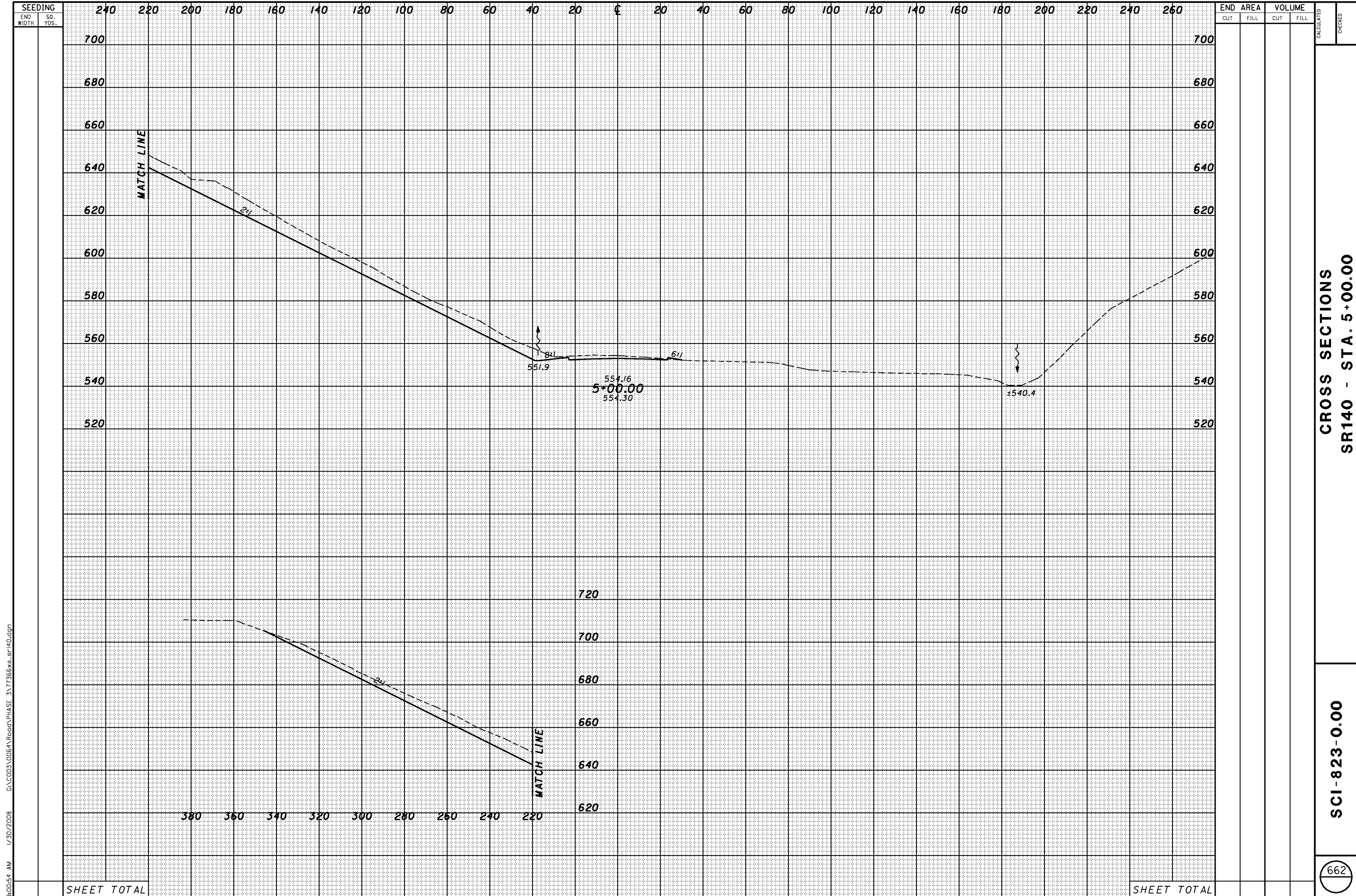
END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



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

CROSS SECTIONS  
SR140 - STA. 4+00.00 TO STA. 4+50.00

SCI-823-0.00



END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

**CROSS SECTIONS  
SR140 - STA. 5+00.00**

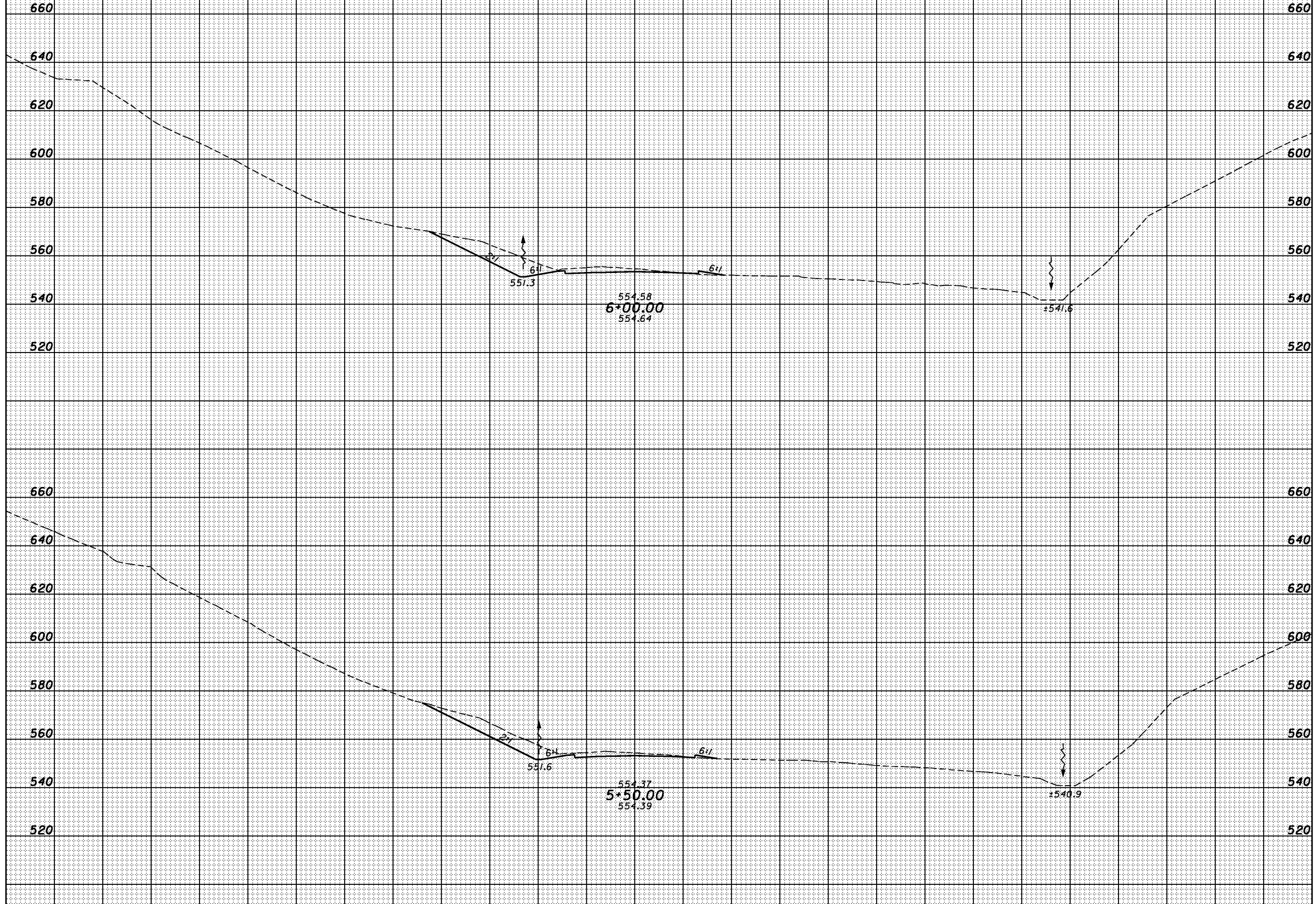
**SCI-823-0.00**

(662)

9:00:54 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\T13668s-sr140.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  
 SR140 - STA. 5+50.00 TO STA. 6+00.00  
 SCI-823-0.00



9:00:56 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x\_srf140.dgn

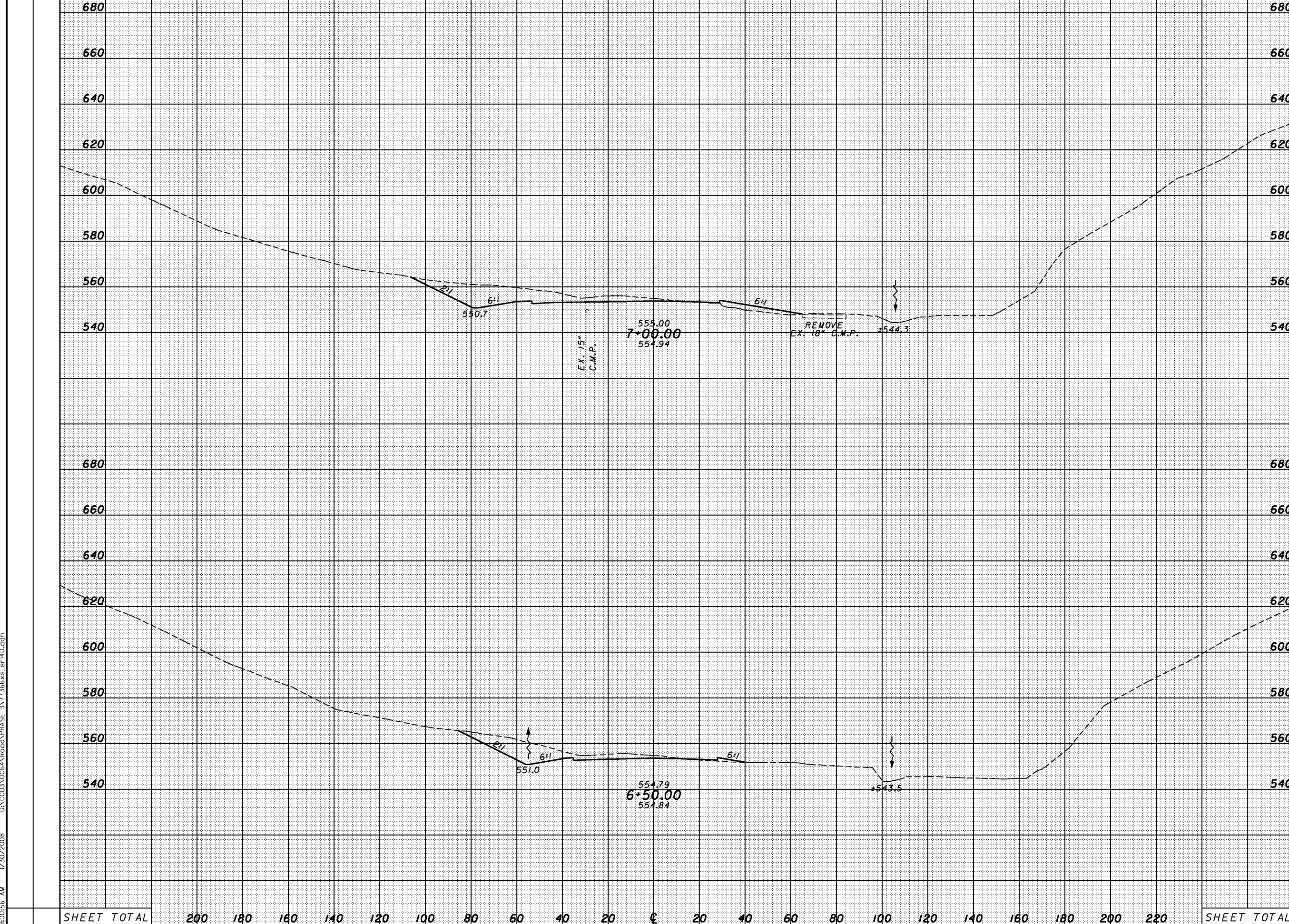
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

CROSS SECTIONS  
SR140 - STA. 6+50.00 TO STA. 7+00.00

SCI-823-0.00

664



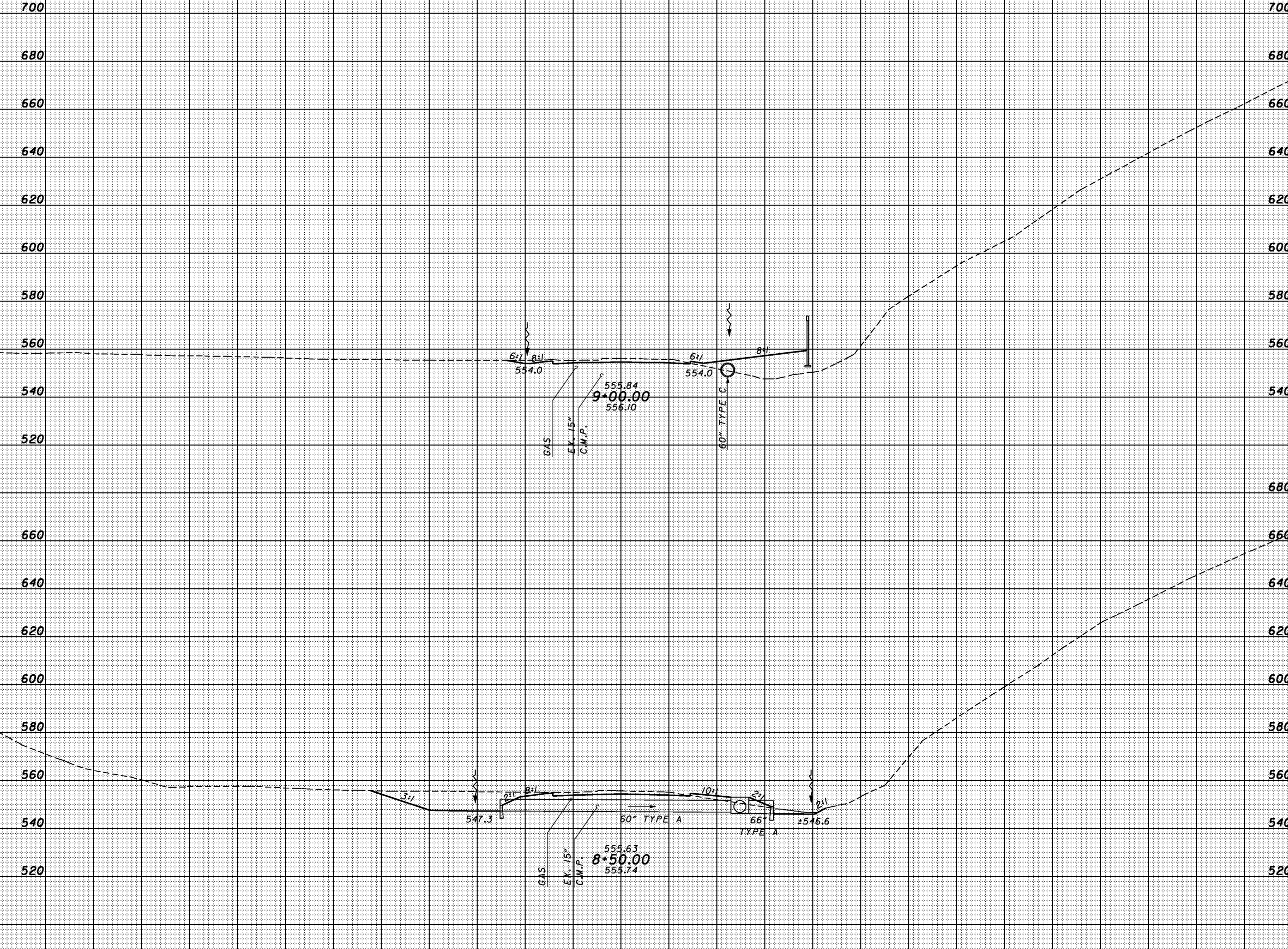
STATION	END AREA		VOLUME		CALCULATED	CHECKED
	CUT	FILL	CUT	FILL		
7+00.00						
6+50.00						
SHEET TOTAL						



9:00:58 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366xs\_srf40.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  
SR140 - STA. 8+50.00 TO STA. 9+00.00

SCI-823-0.00

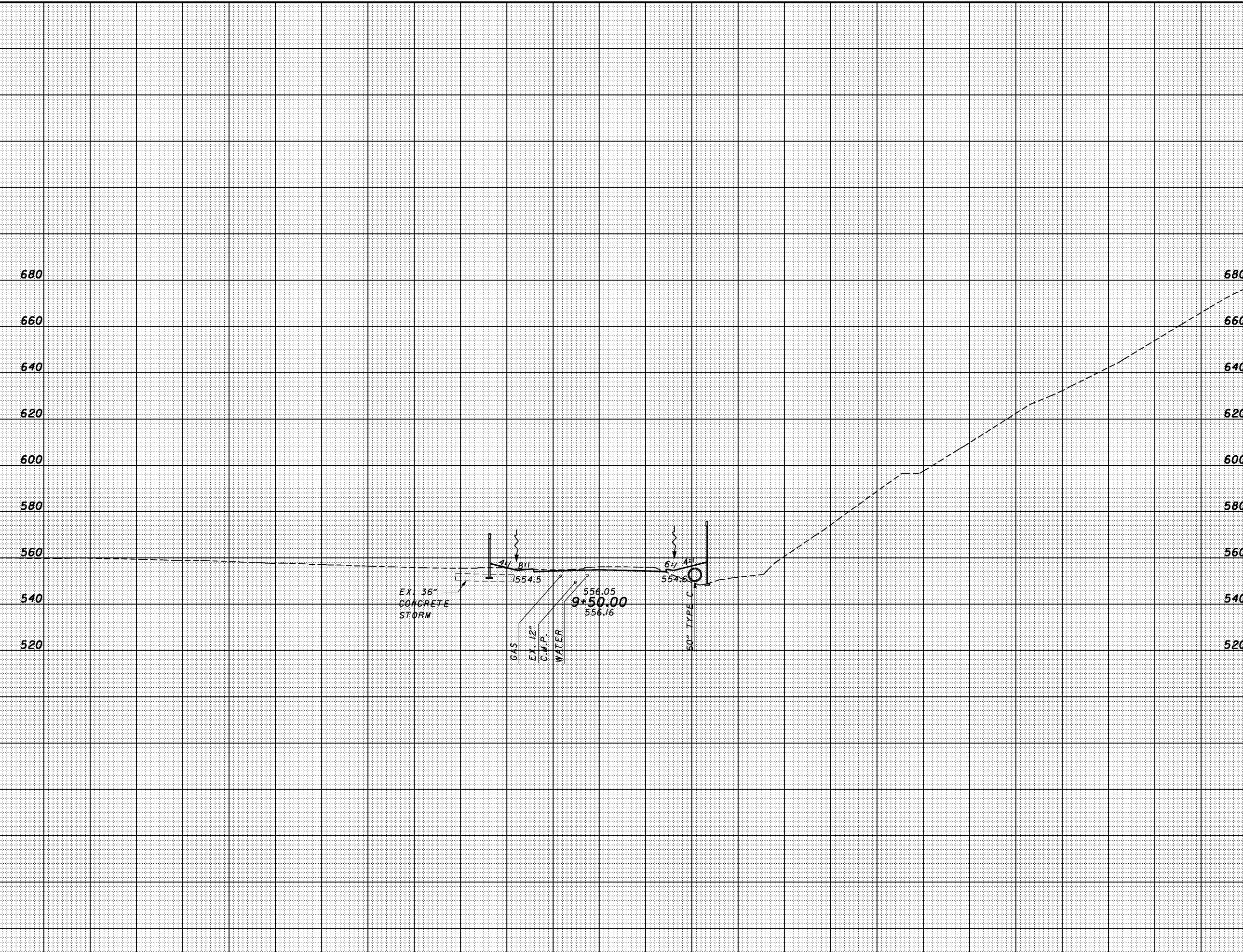
666



9:00:59 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366xs-sr-140.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  
SR140 - STA. 9+50.00

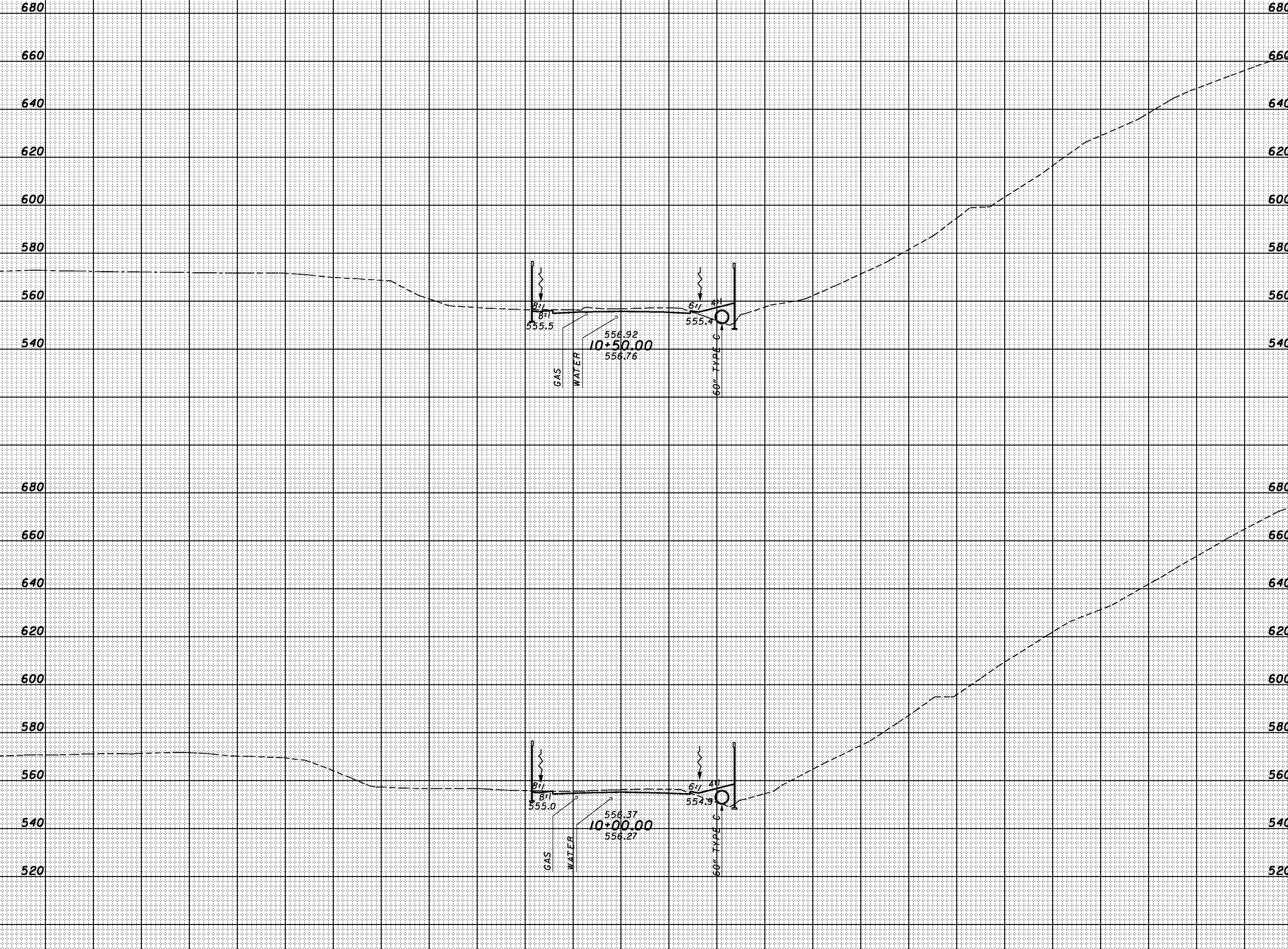
SCI-823-0.00

667

9:01:00 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x.srf\10.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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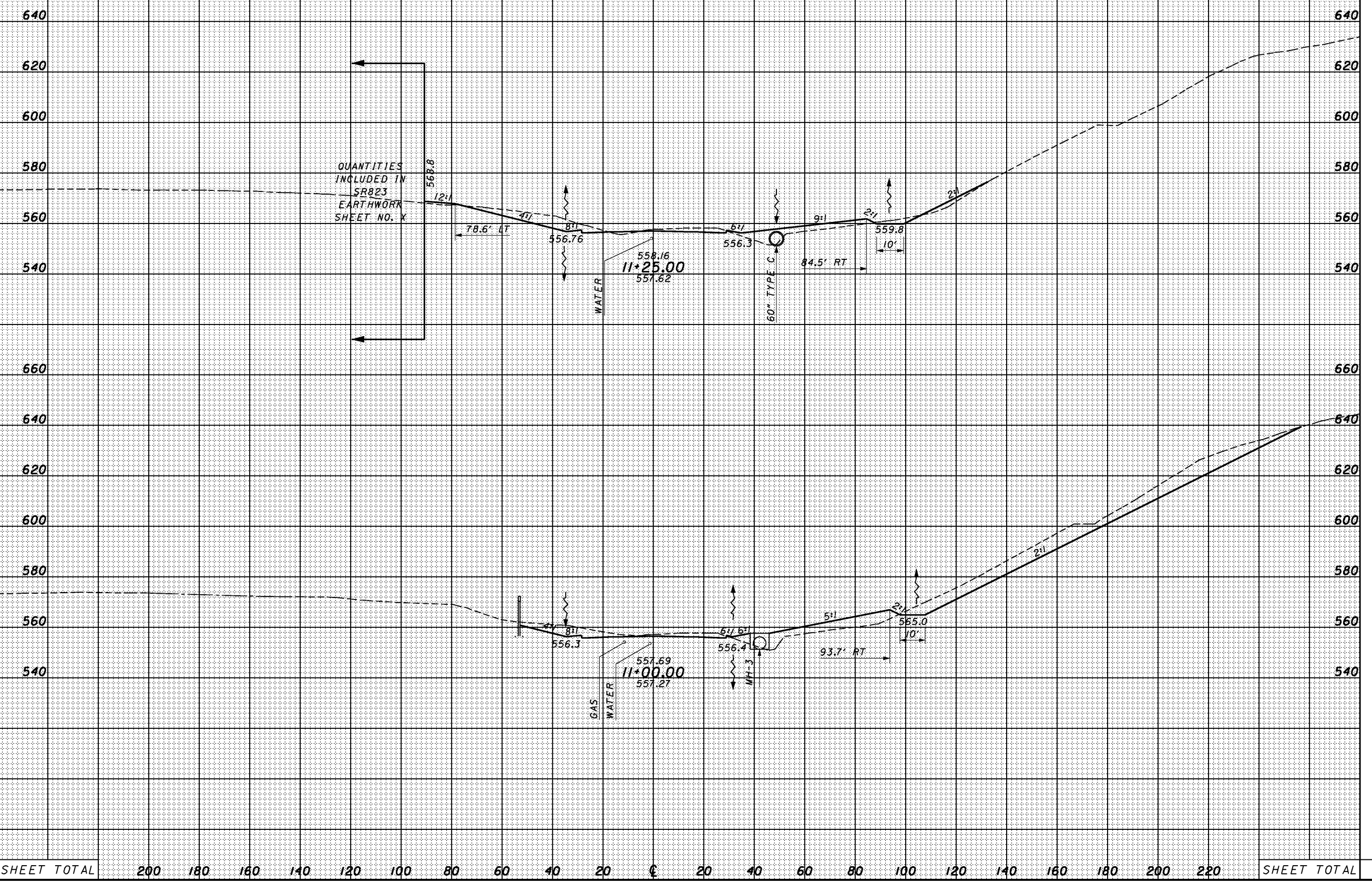
CROSS SECTIONS  
SR140 - STA. 10+00.00 TO STA. 10+50.00

SCI-823-0.00

9:00:01 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668x\_srf140.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  
SR140 - STA. 11+00.00 TO STA. 11+25.00

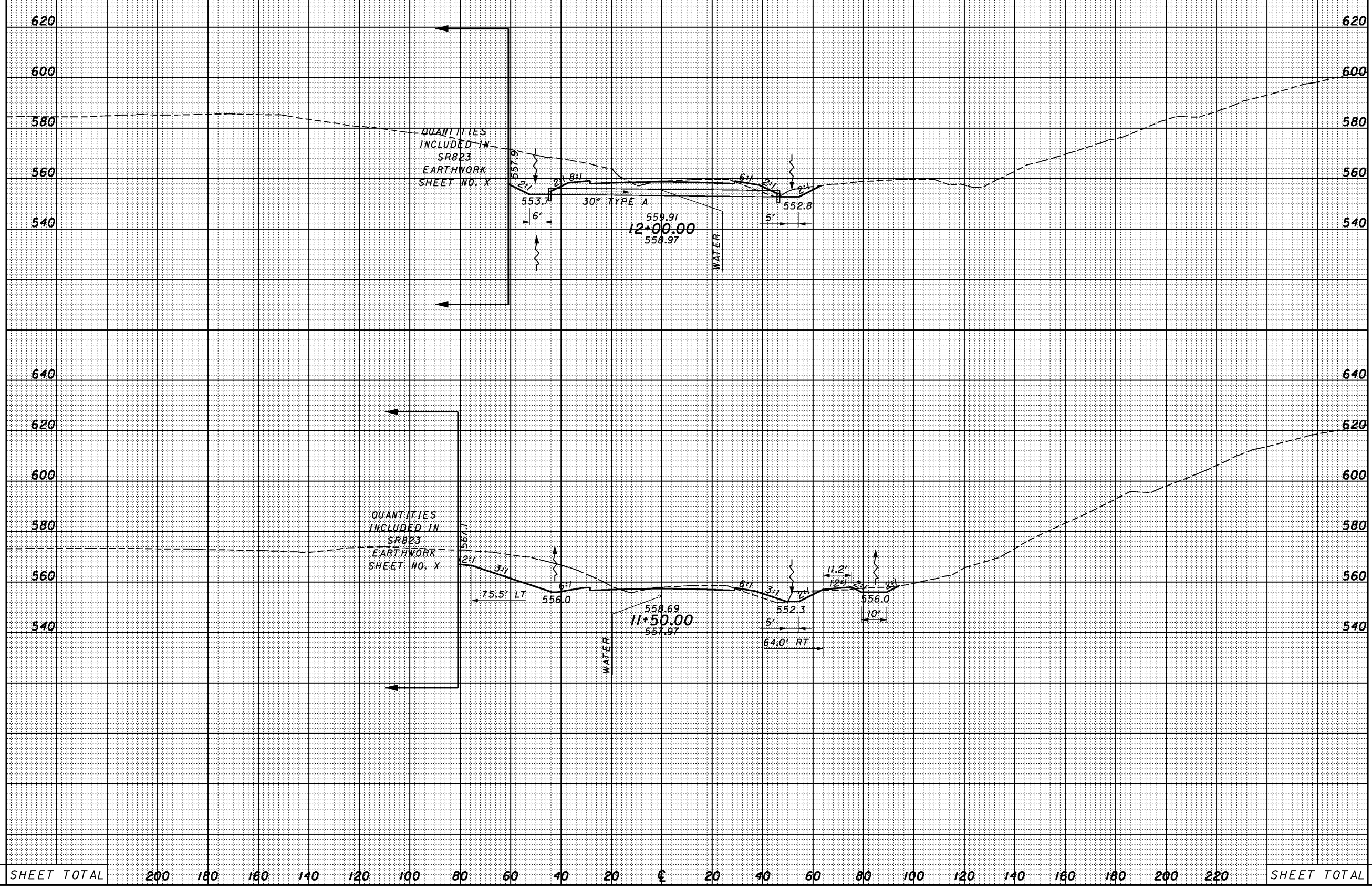
SCI-823-0.00



SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

9:00:01 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668s\_sfr140.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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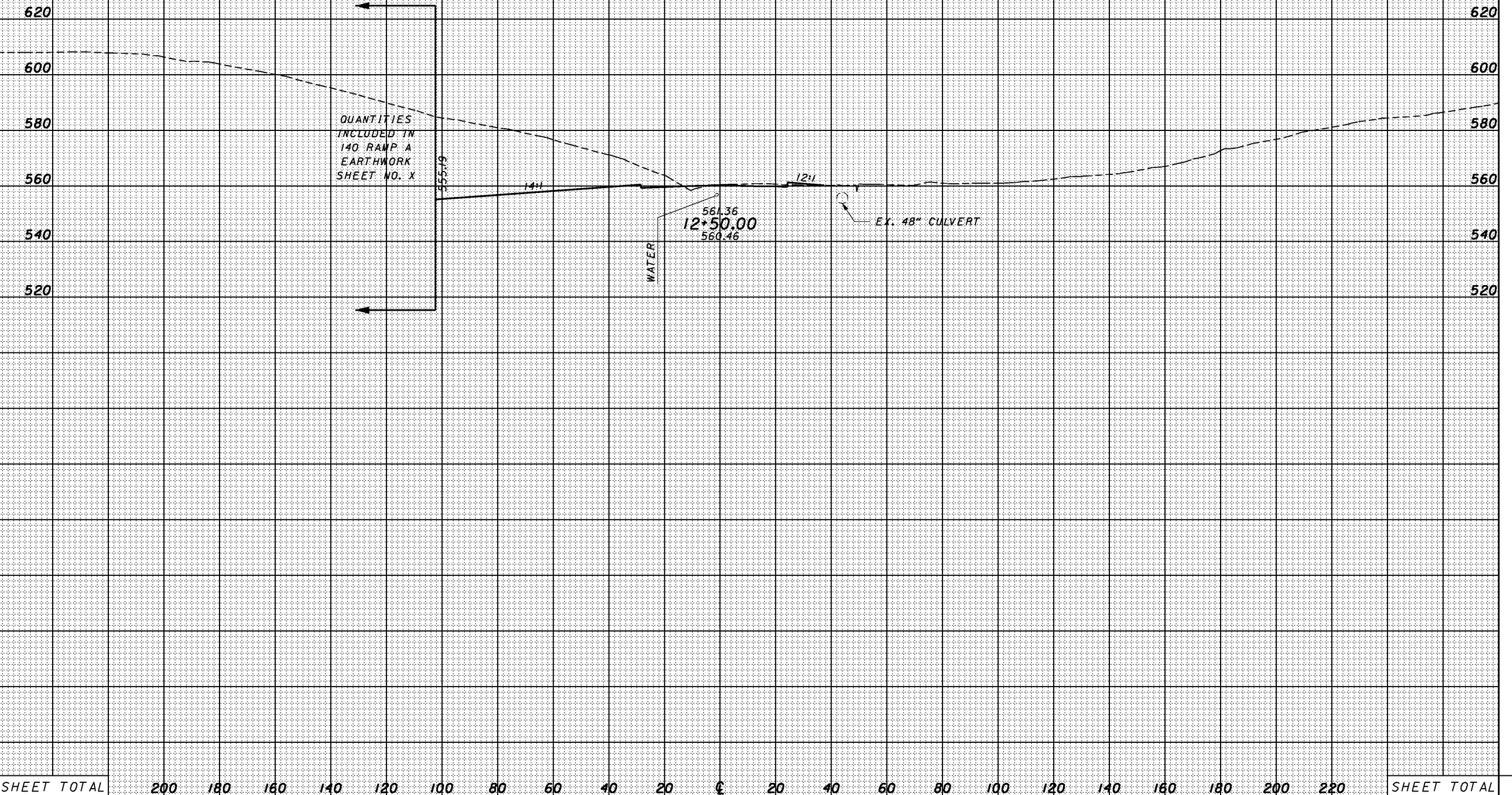
**SCI-823-0.00**  
**CROSS SECTIONS**  
**SR140 - STA. 11+50.00 TO STA. 12+00.00**

670

9:01:02 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366xs-sr-140.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  
SR140 - STA. 12+50.00

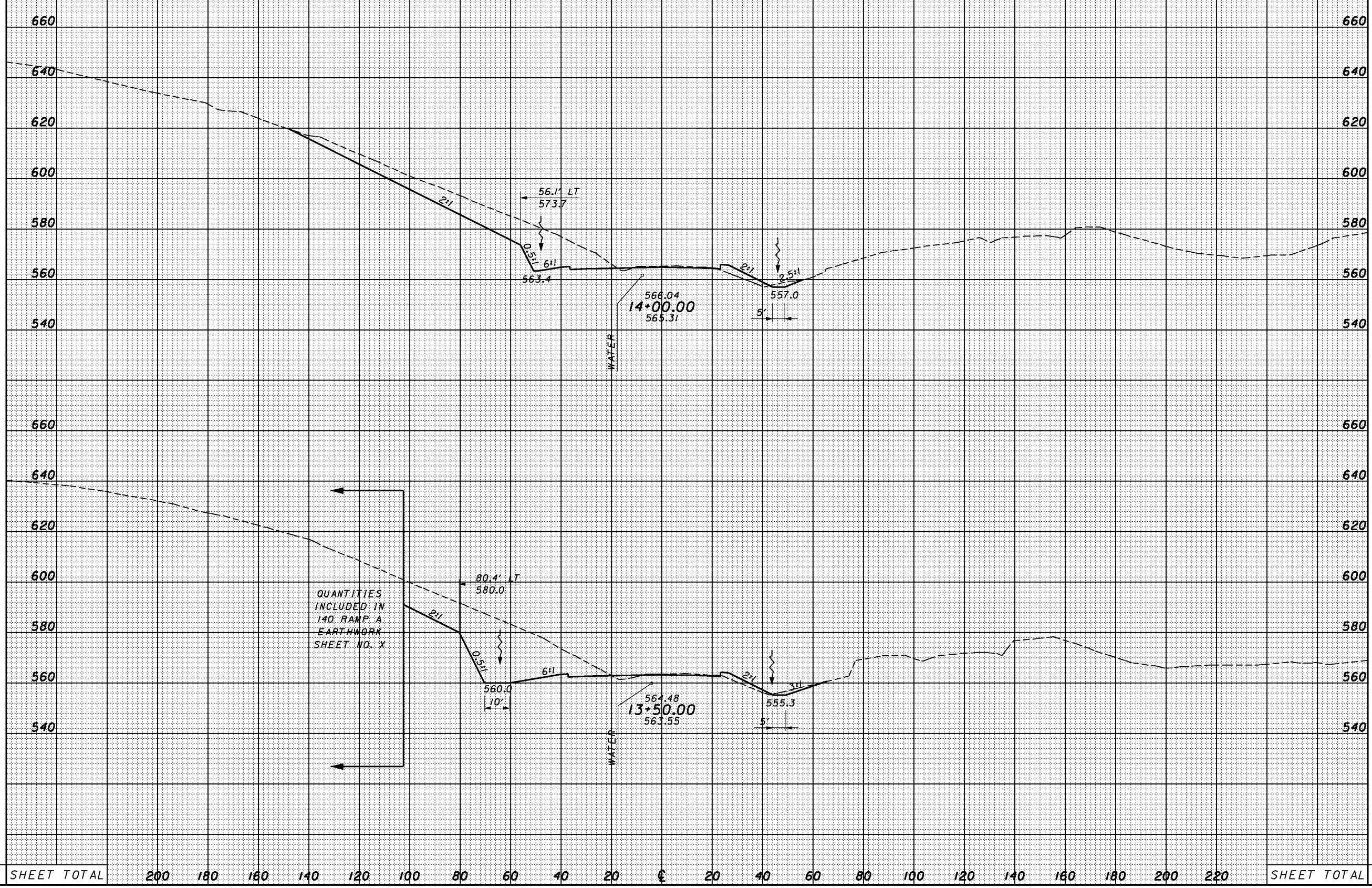
SCI-823-0.00

671

9:04:03 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668x\_sfr140.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



CROSS SECTIONS  
 SR140 - STA. 13+50.00 TO STA. 14+00.00

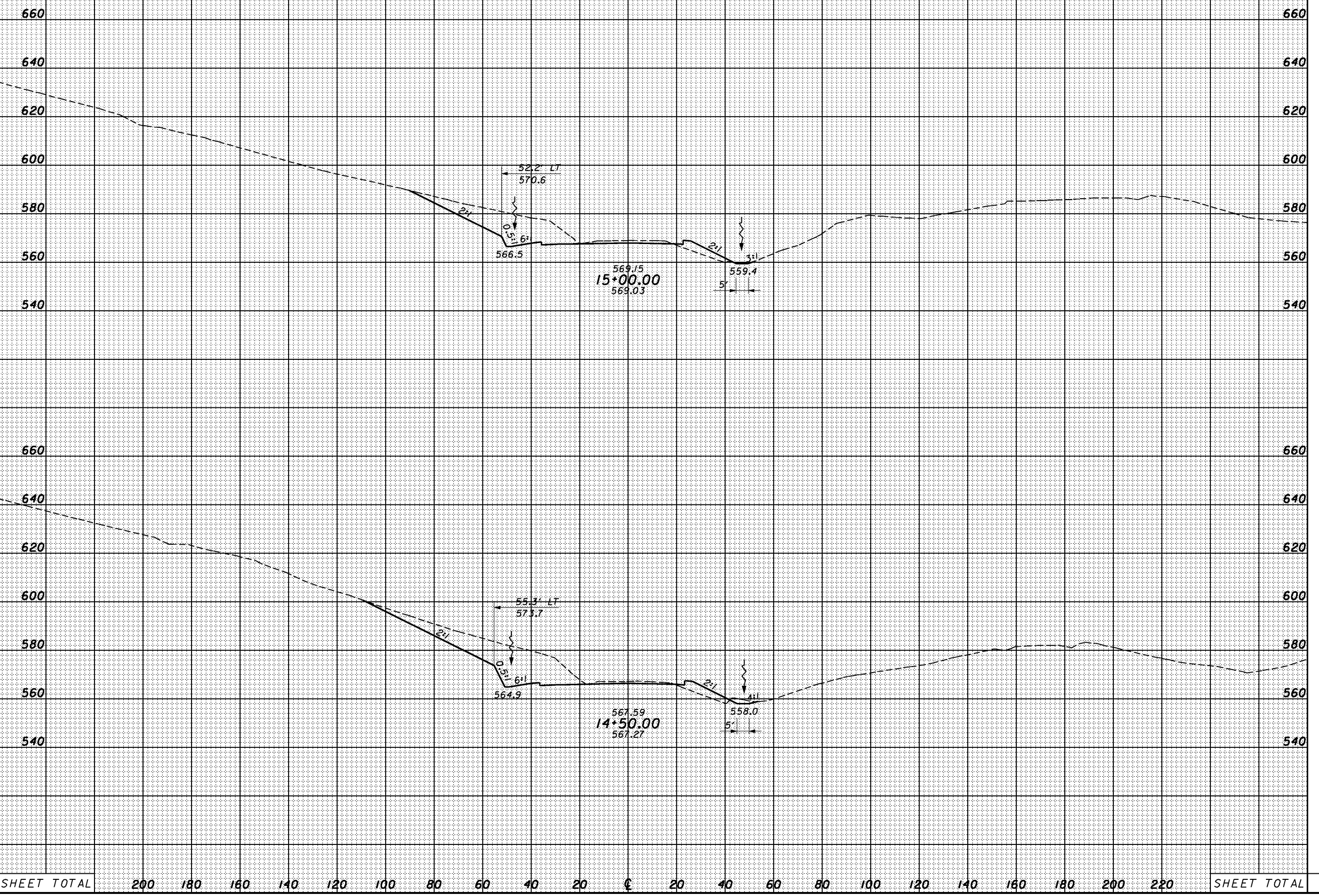
SCI-823-0.00



9:04:04 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x.srf\40.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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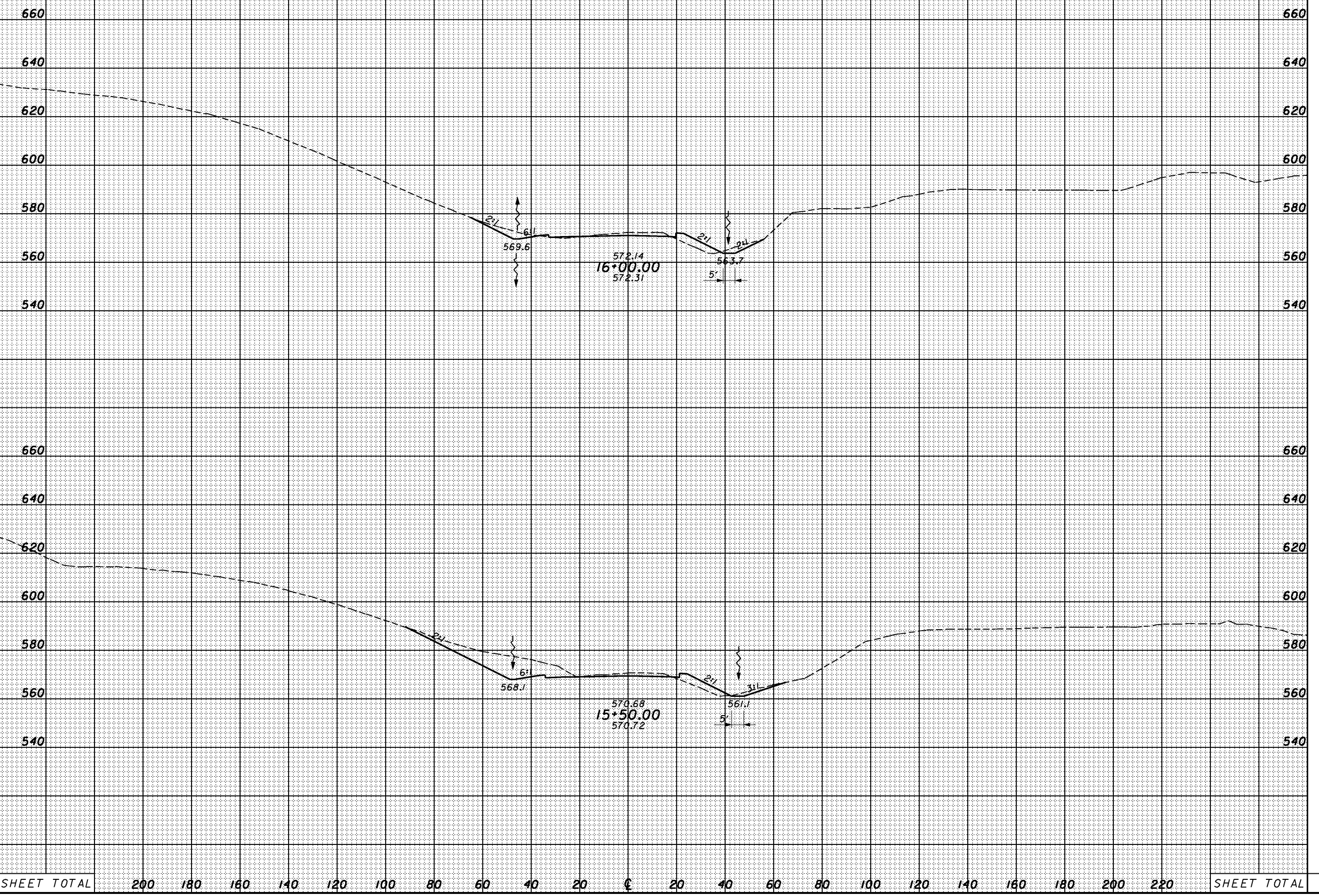
CROSS SECTIONS  
SR140 - STA. 14+50.00 TO STA. 15+00.00

SCI-823-0.00

9:05:05 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668x\_srf140.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		

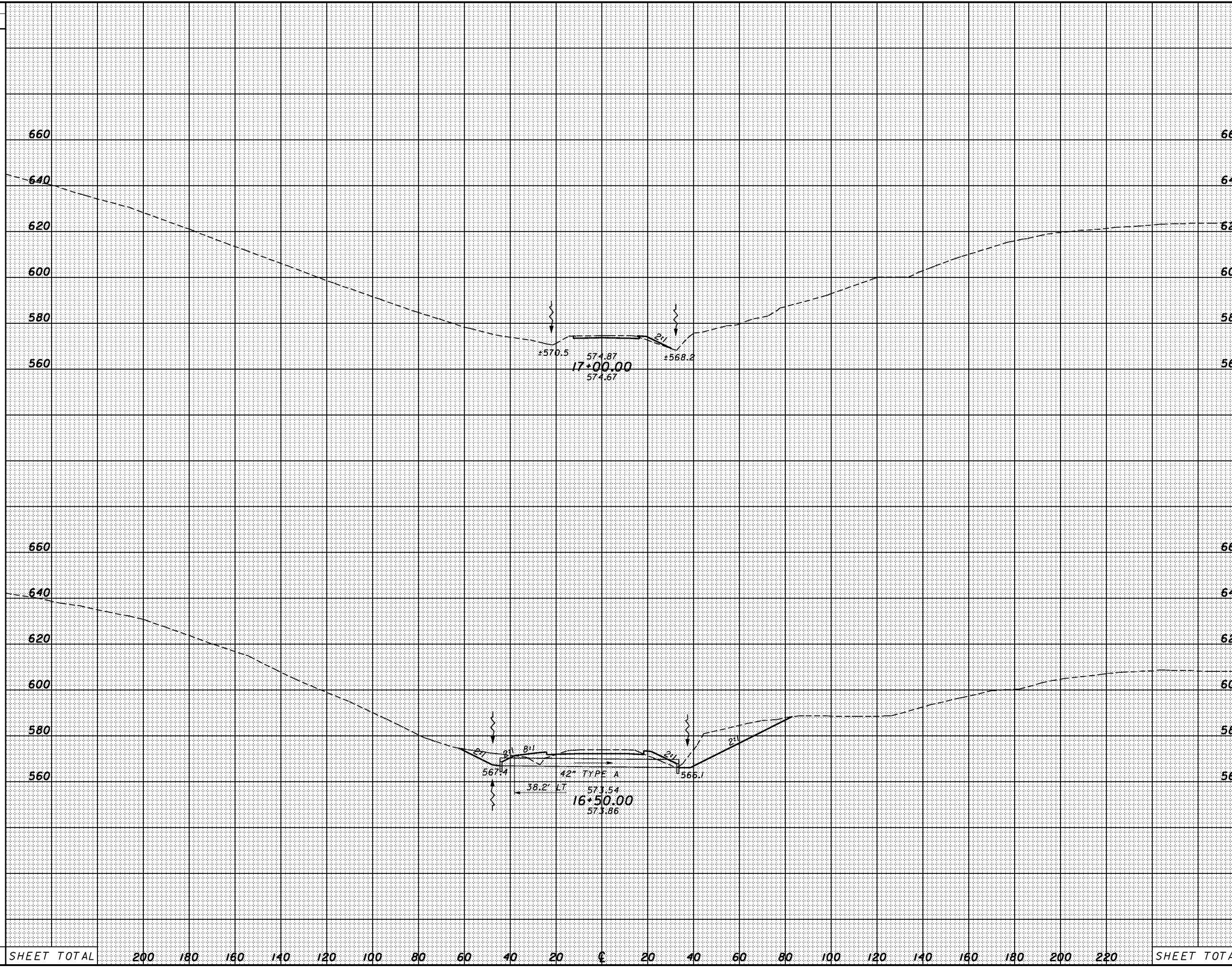


SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	€	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS  
 SR140 - STA. 15+50.00 TO STA. 16+00.00

SCI-823-0.00

SEEDING  
END WIDTH SO. YDS.  
9:04:06 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668x.srf\40.dgn



END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		
<b>CROSS SECTIONS</b> <b>SR140 - STA. 16+50.00 TO STA. 17+00.00</b>					
<b>SCI-823-0.00</b>					
<span style="border: 1px solid black; border-radius: 50%; padding: 2px 10px;">675</span>					

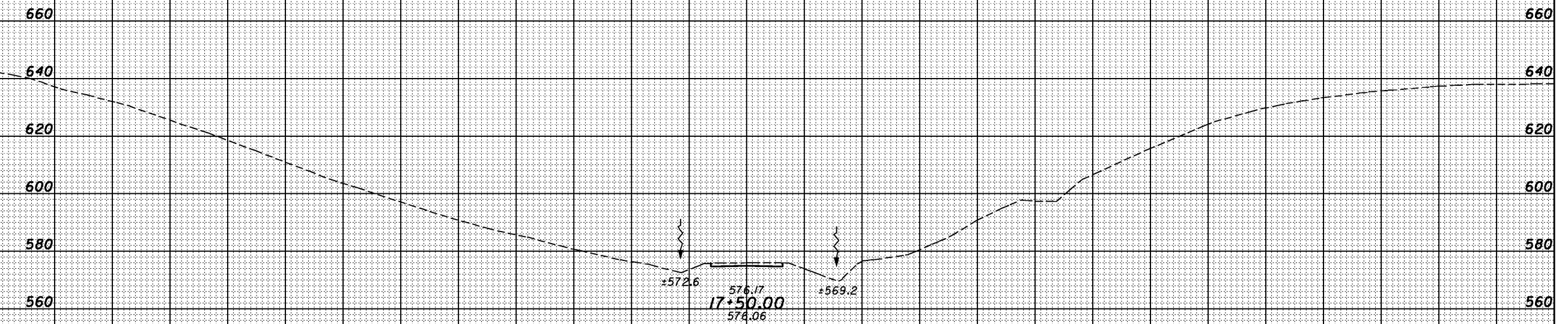
SHEET TOTAL      200    180    160    140    120    100    80    60    40    20    0    20    40    60    80    100    120    140    160    180    200    220      SHEET TOTAL



9:06:06 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366xs-sr-140.dgn

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL		



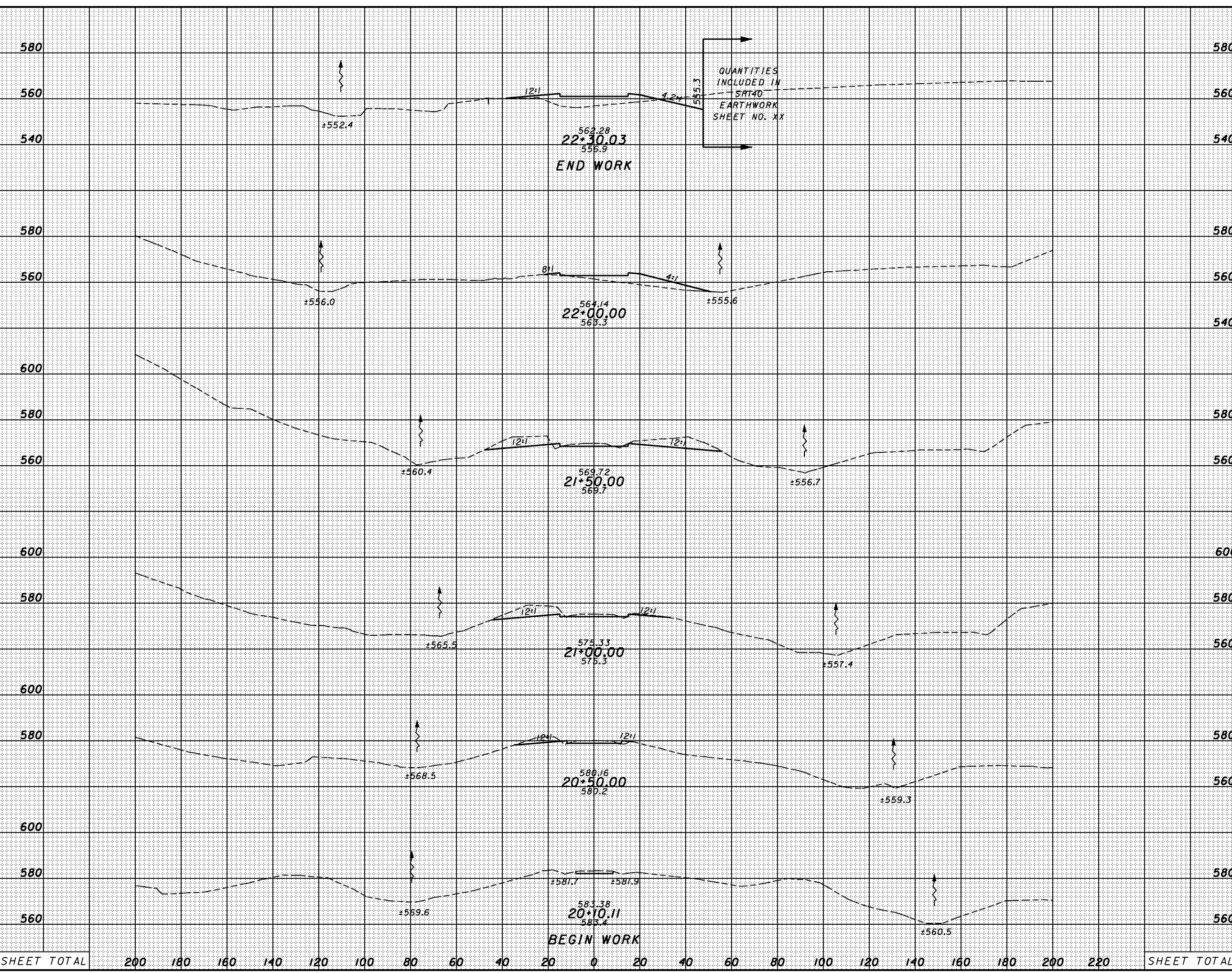
SHEET TOTAL	200	180	160	140	120	100	80	60	40	20	±	20	40	60	80	100	120	140	160	180	200	220	SHEET TOTAL
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CROSS SECTIONS  
SR140 - STA. 17+50.00

SCI-823-0.00

676

SEEDING  
 END WIDTH SO. YDS.  
 9:01:55 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s\_cr251.dgn



QUANTITIES INCLUDED IN SAT-40 EARTHWORK SHEET NO. XX

END WORK

BEGIN WORK

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	CHECKED
CUT	FILL	CUT	FILL		

**CR251 - STA. 20+10.11 TO STA. 22+30.03**

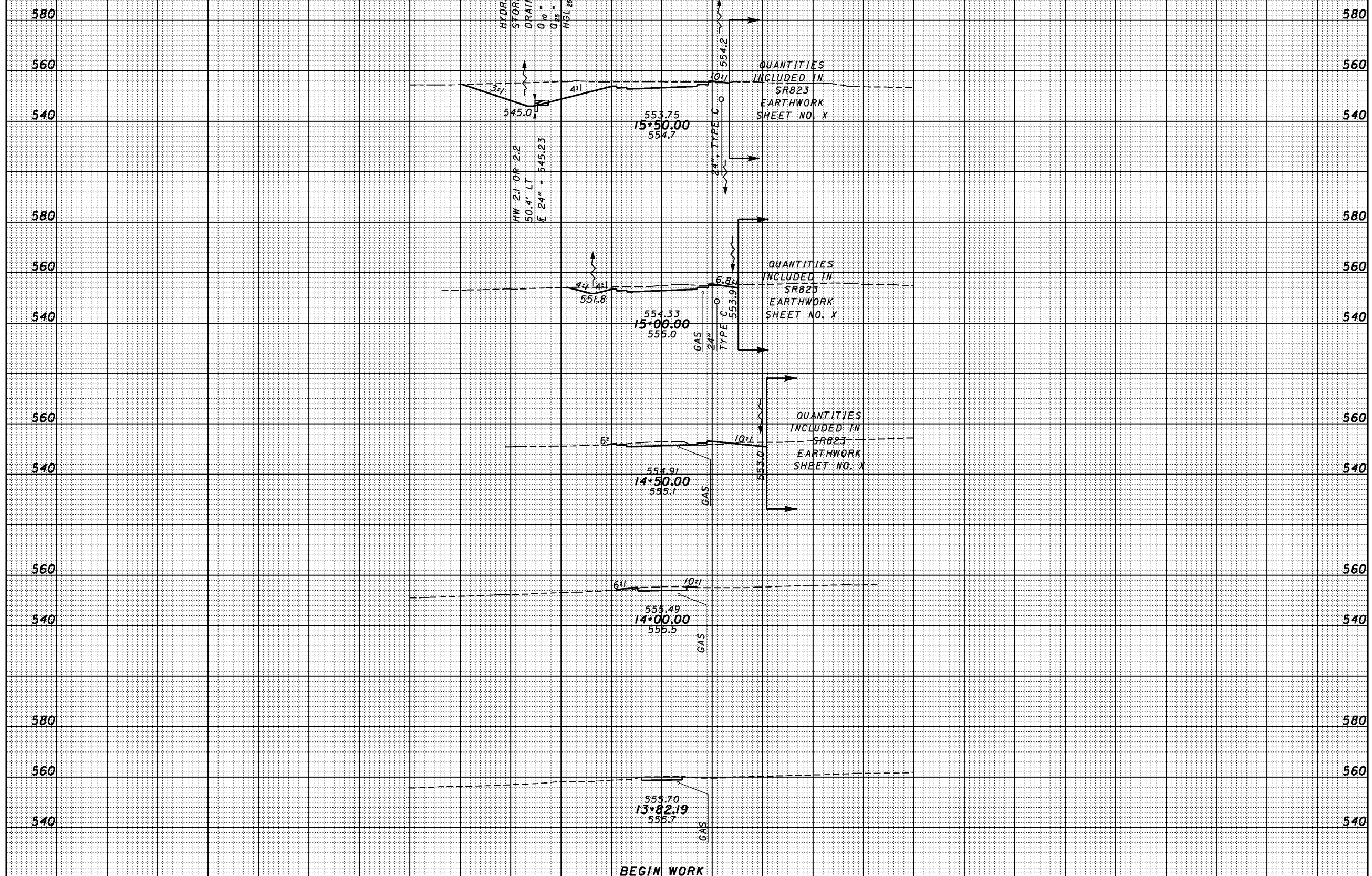
**SCI-823-0.00**

(677)

SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

9:01:53 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366xs\_per.ssd.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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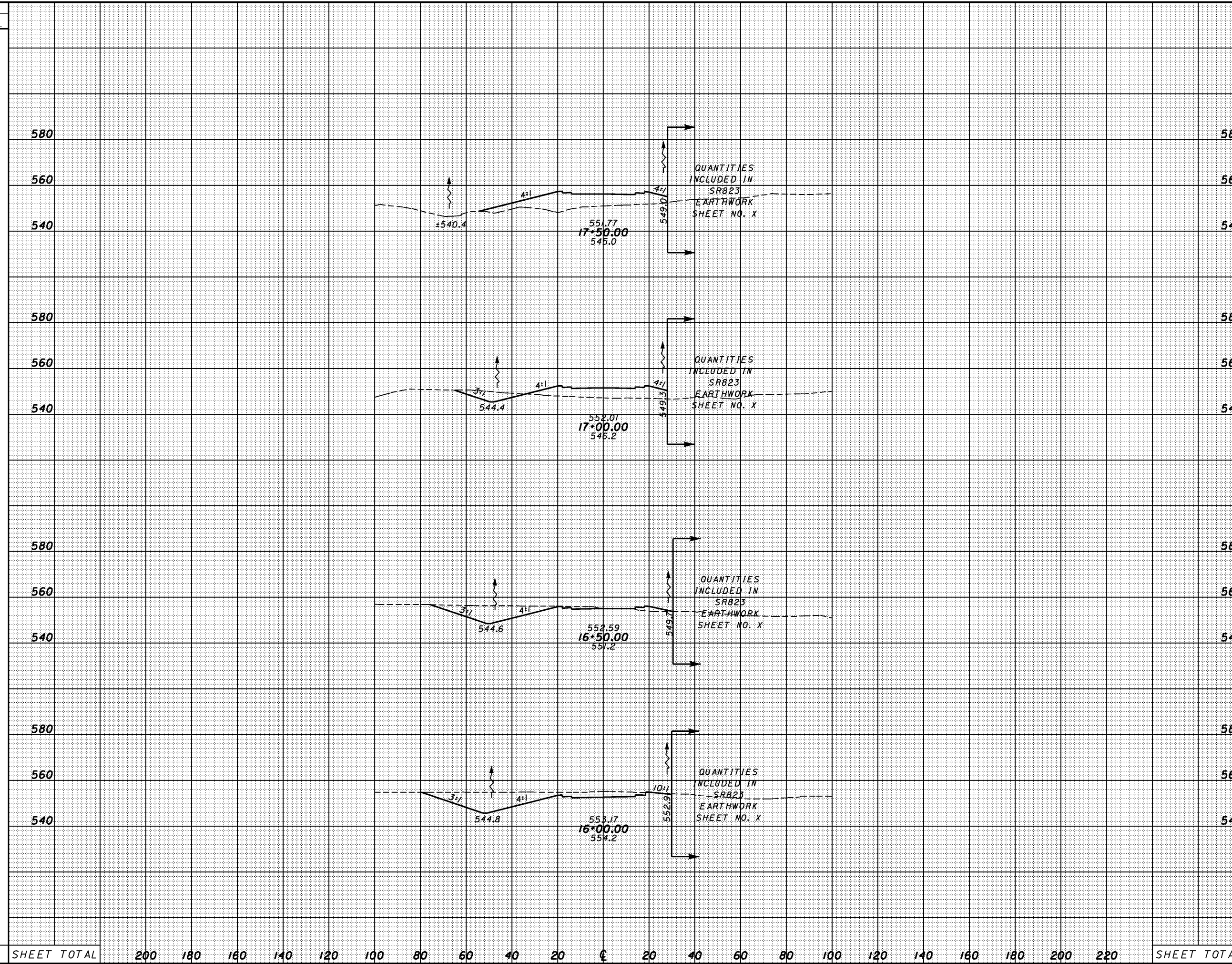
580	580	580	580
560	560	560	560
540	540	540	540
580	580	580	580
560	560	560	560
540	540	540	540
560	560	560	560
540	540	540	540
560	560	560	560
540	540	540	540
580	580	580	580
560	560	560	560
540	540	540	540

CROSS SECTIONS  
PERSHING AVENUE SOUTH - STA. 13+82.19 TO STA. 15+50.00  
SCI-823-0.00



SEEDING

END WIDTH SO. YDS.



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
	CUT	FILL	CUT	FILL	CUT	FILL	CUT	FILL	CUT	FILL	CUT	FILL	CUT	FILL	CUT	FILL	CUT	FILL	CUT	FILL	CUT	FILL	CUT

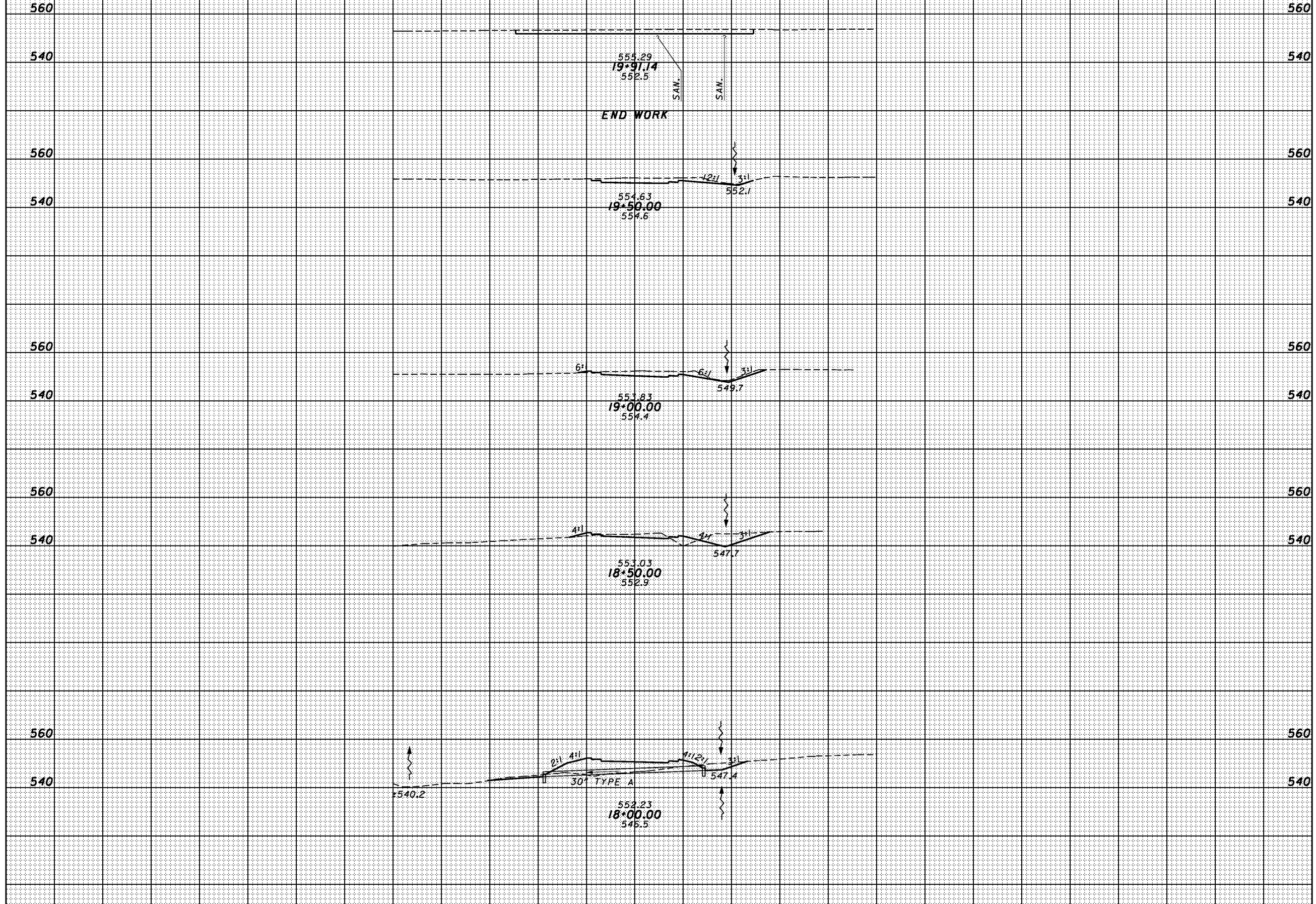
CROSS SECTIONS  
PERSHING AVENUE SOUTH - STA. 16+00.00 TO STA. 17+50.00

SCI-823-0.00

SEEDING  
END WIDTH SO. YDS.

END AREA VOLUME  
CUT FILL CUT FILL  
CALCULATED CHECKED

9:01:51 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366xs\_perses.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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PERSHING AVENUE SOUTH - STA. 18+00.00 TO STA. 19+91.14

SCI-823-0.00

9:02:00 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s\_slocm.dgn

SEEDING	
END WIDTH	SO. YDS.

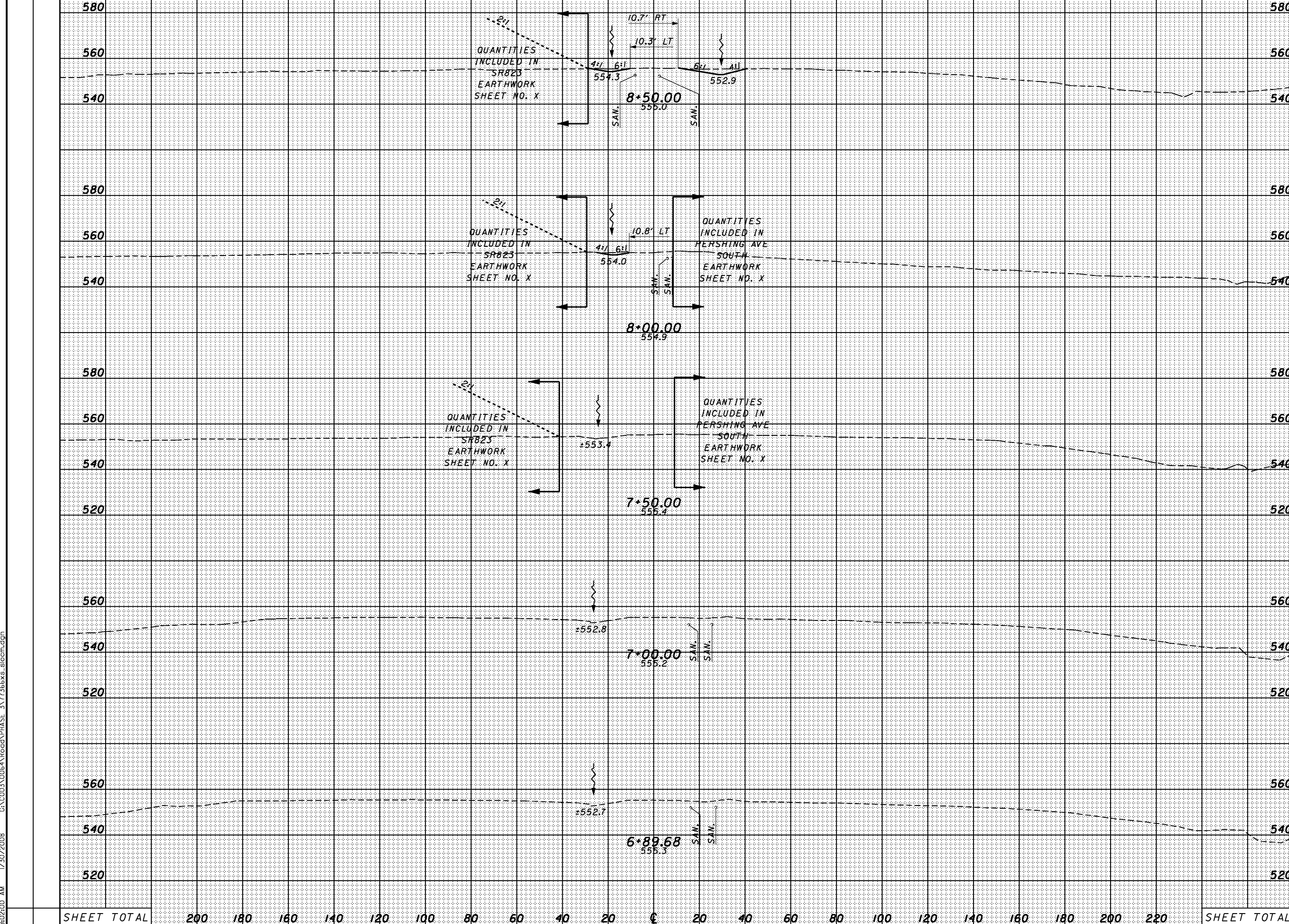
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED  
CHECKED

CROSS SECTIONS  
TR248 (SLOCUM AVE.) - STA. 6+89.68 TO STA. 8+50.00

SCI-823-0.00

681

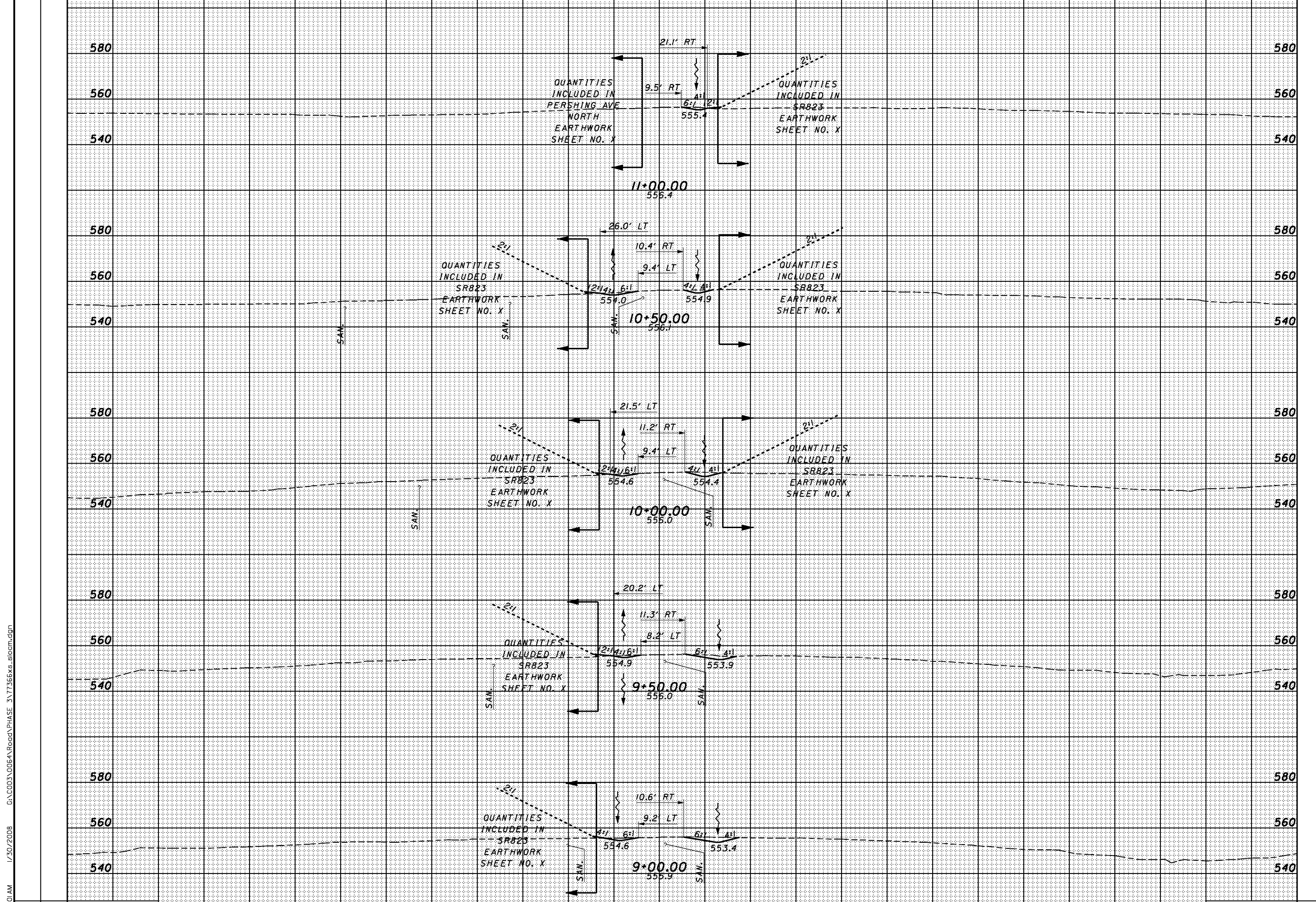


580	580				
560	560				
540	540				
580	580				
560	560				
540	540				
580	580				
560	560				
540	540				
520	520				
560	560				
540	540				
520	520				
560	560				
540	540				
520	520				
SHEET TOTAL		200	180	160	140
		120	100	80	60
		40	20	€	20
		40	60	80	100
		120	140	160	180
		200	220		
SHEET TOTAL					



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  
TR248 (SLOCUM AVE.) - STA. 9+00.00 TO STA. 11+00.00

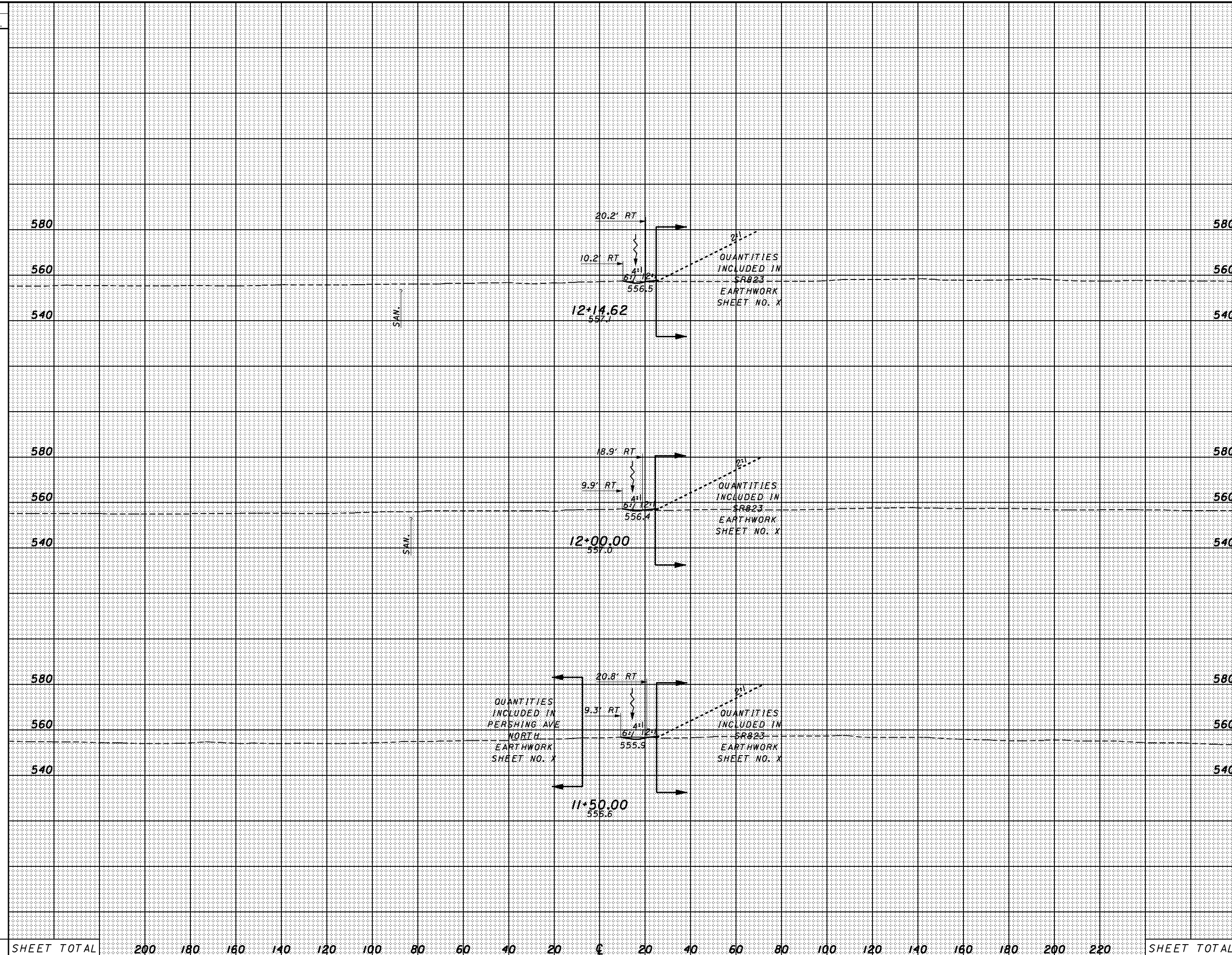
SCI-823-0.00

682

9/20/2008 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s\_slocum.dgn

9:02:02 AM 1/30/2008 G:\C003\0064\Road\PHASE\_3\1713668s\_slocm.dgn

SEEDING  
END WIDTH SO. YDS.



END	AREA		VOLUME		CALCULATED	CHECKED																	
	CUT	FILL	CUT	FILL																			
580																							
560																							
540																							
580																							
560																							
540																							
580																							
560																							
540																							
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  
TR248 (SLOCUM AVE.) - STA. 11+50.00 TO STA. 12+14.62

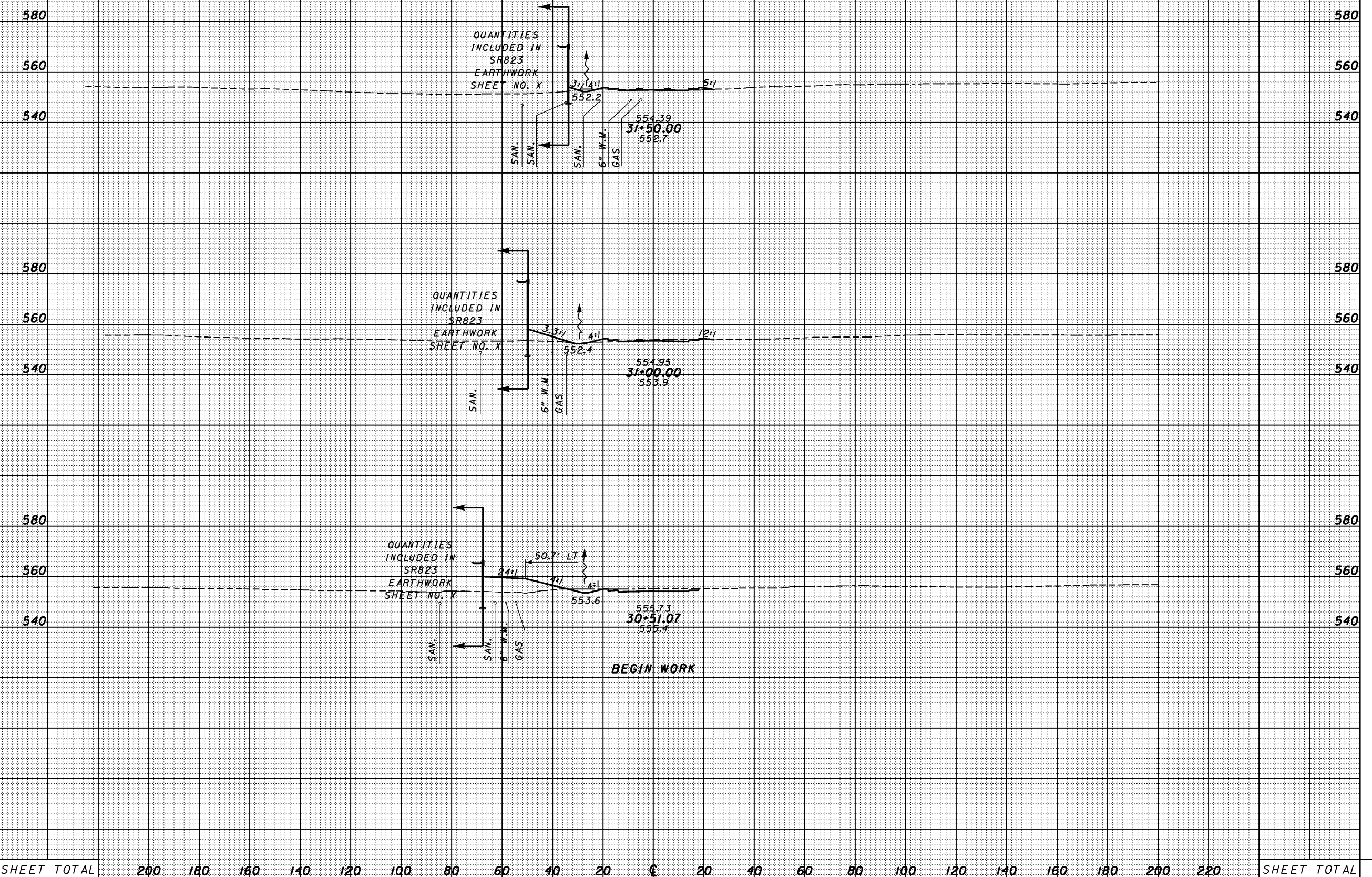
SCI-823-0.00

683

9:01:58 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\1713668s\_per.sno.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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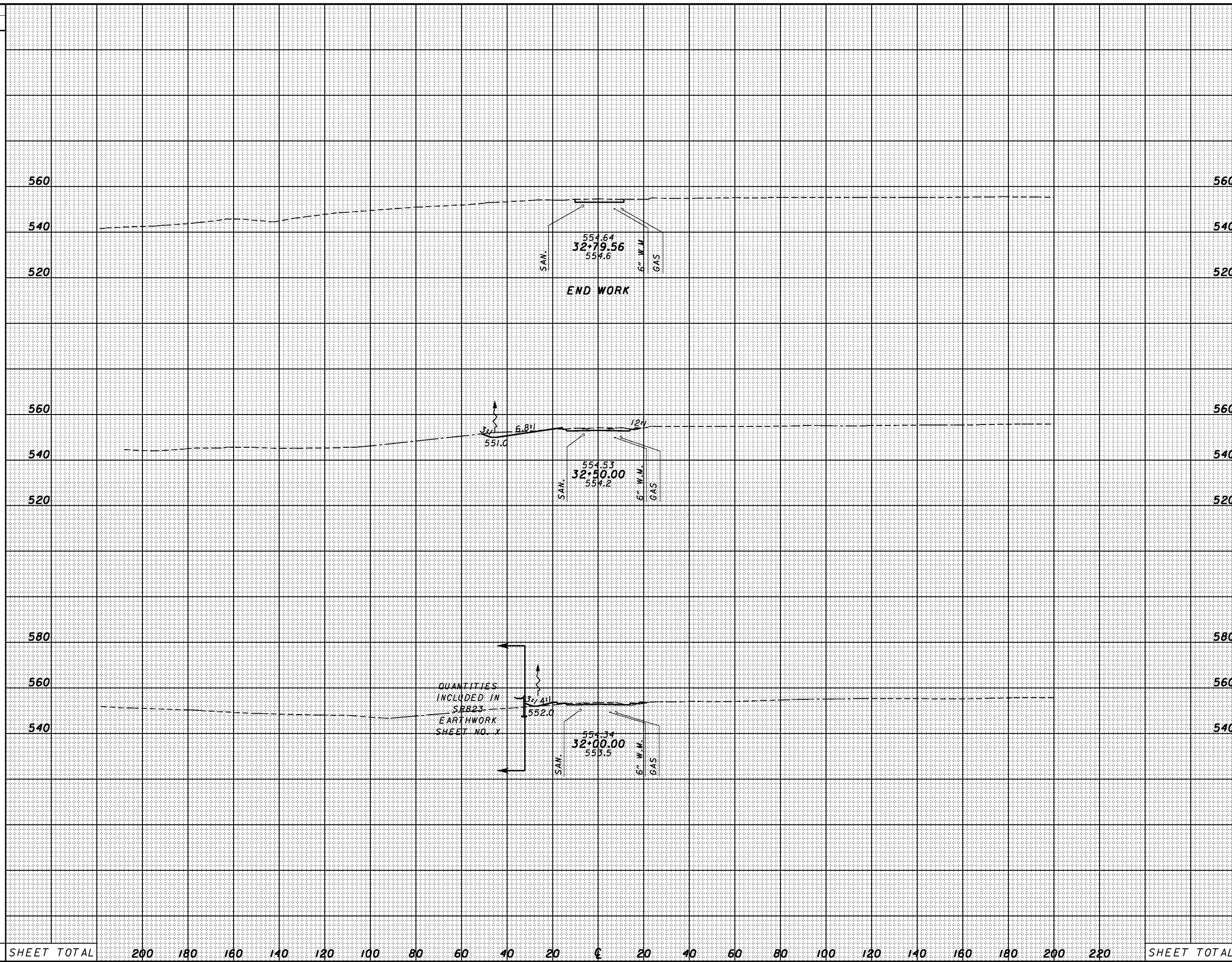
SCI-823-0.00  
 CROSS SECTIONS  
 PERSHING AVENUE NORTH - STA. 30+51.07 TO STA. 31+50.00



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

CROSS SECTIONS  
PERSHING AVENUE NORTH - 32+00.00 TO STA. 32+79.56

SCI-823-0.00

685



### SUPERELEVATION TABLE

SR823, CURVE #1			P.I. STA. 148+19.77				DC=1°			EMAX = 0.036 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		
125+95.51	601.25	-0.0400	12	601.73	-0.0160	24	602.11	6	-0.0400	601.87	125+95.51	NORMAL CROWN
126+00.00	601.16	-0.0400	12	601.64	-0.0153	24	602.01	6	-0.0400	601.77	126+00.00	
126+25.00	600.80	-0.0400	10	601.20	-0.0113	24	601.47	6	-0.0400	601.23	126+25.00	
126+50.00	600.40	-0.0400	10	600.80	-0.0073	24	600.97	6	-0.0400	600.73	126+50.00	
126+75.00	600.01	-0.0400	10	600.41	-0.0033	24	600.49	6	-0.0400	600.25	126+75.00	
126+95.51	599.73	-0.0400	10	600.13	0.0000	24	600.13	6	-0.0400	599.89	126+95.51	TS
127+00.00	599.67	-0.0400	10	600.07	0.0007	24	600.05	6	-0.0400	599.81	127+00.00	
127+25.00	599.36	-0.0400	10	599.76	0.0047	24	599.65	6	-0.0400	599.41	127+25.00	
127+50.00	599.08	-0.0400	10	599.48	0.0087	24	599.27	6	-0.0400	599.03	127+50.00	
127+75.00	598.85	-0.0400	10	599.25	0.0127	24	598.94	6	-0.0400	598.70	127+75.00	
127+95.51	598.66	-0.0400	10	599.06	0.0160	24	598.68	6	-0.0400	598.44	127+95.51	
128+00.00	598.63	-0.0400	10	599.03	0.0167	24	598.63	6	-0.0400	598.39	128+00.00	
128+25.00	598.46	-0.0400	10	598.86	0.0207	24	598.36	6	-0.0400	598.12	128+25.00	
128+50.00	598.31	-0.0400	10	598.71	0.0247	24	598.12	6	-0.0400	597.88	128+50.00	
128+75.00	598.20	-0.0400	10	598.60	0.0287	24	597.91	6	-0.0400	597.67	128+75.00	
128+83.01	598.17	-0.0400	10	598.57	0.0300	24	597.85	6	-0.0400	597.61	128+83.01	
129+00.00	598.15	-0.0373	10	598.53	0.0327	24	597.74	6	-0.0400	597.50	129+00.00	
129+20.51	598.15	-0.0340	10	598.49	0.0360	24	597.63	6	-0.0400	597.39	129+20.51	SC, FULL SUPER
129+25.00	598.12	-0.0340	10	598.46	0.0360	24	597.60	6	-0.0400	597.36	129+25.00	
129+50.00	598.02	-0.0340	10	598.36	0.0360	24	597.50	6	-0.0400	597.26	129+50.00	
129+75.00	597.95	-0.0340	10	598.29	0.0360	24	597.43	6	-0.0400	597.19	129+75.00	
130+00.00	597.91	-0.0340	10	598.25	0.0360	24	597.39	6	-0.0400	597.15	130+00.00	
								<b>FULL SUPER</b>				
165+00.00	727.18	-0.0340	10	727.52	0.0360	24	726.66	6	-0.0400	726.42	165+00.00	
165+25.00	727.39	-0.0340	10	727.73	0.0360	24	726.87	6	-0.0400	726.63	165+25.00	
165+50.00	727.58	-0.0340	10	727.92	0.0360	24	727.06	6	-0.0400	726.82	165+50.00	
165+64.71	727.68	-0.0340	10	728.02	0.0360	24	727.16	6	-0.0400	726.92	165+64.71	CS, FULL SUPER
165+75.00	727.69	-0.0356	10	728.04	0.0344	24	727.22	6	-0.0400	726.98	165+75.00	
166+00.00	727.69	-0.0396	10	728.09	0.0304	24	727.36	6	-0.0400	727.12	166+00.00	
166+02.21	727.69	-0.0400	10	728.09	0.0300	24	727.37	6	-0.0400	727.13	166+02.21	
166+25.00	727.70	-0.0400	10	728.10	0.0264	24	727.47	6	-0.0400	727.23	166+25.00	
166+50.00	727.70	-0.0400	10	728.10	0.0224	24	727.56	6	-0.0400	727.32	166+50.00	
166+75.00	727.66	-0.0400	10	728.06	0.0184	24	727.62	6	-0.0400	727.38	166+75.00	
166+89.71	727.63	-0.0400	10	728.03	0.0160	24	727.65	6	-0.0400	727.41	166+89.71	
167+00.00	727.60	-0.0400	10	728.00	0.0144	24	727.66	6	-0.0400	727.42	167+00.00	
167+25.00	727.53	-0.0400	10	727.93	0.0104	24	727.68	6	-0.0400	727.44	167+25.00	
167+50.00	727.42	-0.0400	10	727.82	0.0064	24	727.67	6	-0.0400	727.43	167+50.00	
167+75.00	727.29	-0.0400	10	727.69	0.0024	24	727.63	6	-0.0400	727.39	167+75.00	
167+89.71	727.20	-0.0400	10	727.60	0.0000	24	727.60	6	-0.0400	727.36	167+89.71	ST
168+00.00	727.14	-0.0400	10	727.54	-0.0016	24	727.58	6	-0.0400	727.34	168+00.00	
168+25.00	726.95	-0.0400	10	727.35	-0.0056	24	727.49	6	-0.0400	727.25	168+25.00	
168+50.00	726.76	-0.0400	10	727.16	-0.0096	24	727.39	6	-0.0400	727.15	168+50.00	
168+75.00	726.52	-0.0400	10	726.92	-0.0136	24	727.25	6	-0.0400	727.01	168+75.00	
168+89.71	726.39	-0.0400	10	726.79	-0.0160	24	727.17	6	-0.0400	726.93	168+89.71	NORMAL CROWN

CALCULATED DL  
 CHECKED RW  
**SUPERELEVATION TABLE, CURVE #1**  
**SR823 SOUTHBOUND**  
**SCI - 823 - 0.00**  
 687

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# SUPERELEVATION TABLE

SR823, CURVE # NBEOP

P.I. STA. 178+28.77

DC = 1°46' 14"

EMAX = 0.060 FT/FT

STATION SR823 NB-EOP	NORTHBOUND, INSIDE SHOULDER			PROFILE GRADE (INSIDE EDGE OF PAVEMENT) SR823	STATION SR823	NORTHBOUND, LANES			NORTHBOUND, OUTSIDE SHOULDER			STATION SR823 NB-EOP	REMARKS
	SHOULDER ELEVATION	SHOULDER SLOPE	SHOULDER WIDTH (EDGE OF PAVEMENT TO $\phi$ SR823)			PAVEMENT WIDTH	PAVEMENT SLOPE	EDGE OF PAVEMENT ELEVATION	SHOULDER WIDTH	SHOULDER SLOPE	SHOULDER ELEVATION		
168+89.71	726.87	-0.040	7.50	727.17	168+89.71	24	-0.016	726.79	10	-0.0400	726.39	168+89.71	NORMAL CROWN
169+00.00	726.80	-0.040	7.50	727.10	169+00.00	24	-0.014	726.76	10	-0.0400	726.36	169+00.00	
169+25.00	726.62	-0.040	7.51	726.92	169+25.00	24	-0.010	726.67	10	-0.0400	726.27	169+25.00	
169+50.00	726.41	-0.040	7.53	726.71	169+49.99	24	-0.006	726.56	10	-0.0400	726.16	169+50.00	
169+75.00	726.18	-0.040	7.59	726.48	169+74.98	24	-0.002	726.42	10	-0.0400	726.02	169+75.00	
169+89.71	726.03	-0.040	7.65	726.34	169+89.68	24	0.000	726.34	10	-0.0400	725.94	169+89.71	TS
170+00.00	725.92	-0.040	7.69	726.23	169+99.96	24	0.002	726.27	10	-0.0400	725.87	170+00.00	
170+25.00	725.64	-0.040	7.85	725.95	170+24.94	24	0.006	726.09	10	-0.0400	725.69	170+25.00	
170+50.00	725.33	-0.040	8.05	725.65	170+49.92	24	0.010	725.88	10	-0.0400	725.48	170+50.00	
170+75.00	724.99	-0.040	8.31	725.32	170+74.89	24	0.014	725.65	10	-0.0400	725.25	170+75.00	
170+89.71	724.78	-0.040	8.48	725.12	170+89.57	24	0.016	725.50	10	-0.0400	725.10	170+89.71	
171+00.00	724.63	-0.040	8.62	724.97	170+99.85	24	0.018	725.39	10	-0.0400	724.99	171+00.00	
171+25.00	724.23	-0.040	8.97	724.59	171+24.81	24	0.022	725.11	10	-0.0400	724.71	171+25.00	
171+50.00	723.81	-0.040	9.38	724.19	171+49.76	24	0.026	724.81	10	-0.0400	724.41	171+50.00	
171+75.00	723.38	-0.040	9.84	723.77	171+74.70	24	0.030	724.48	10	-0.0400	724.08	171+75.00	
171+77.21	723.33	-0.040	9.88	723.73	171+76.90	24	0.030	724.45	10	-0.0400	724.05	171+77.21	
172+00.00	722.91	-0.040	10.34	723.32	171+99.63	24	0.034	724.13	10	-0.0364	723.76	172+00.00	
175+25.00	722.41	-0.040	10.90	722.85	172+24.56	24	0.086	724.91	10	0.0156	725.06	175+25.00	
172+39.71	722.11	-0.040	11.24	722.56	172+39.22	24	0.040	723.52	10	-0.0300	723.22	172+39.71	
172+50.00	721.87	-0.042	11.49	722.35	172+49.48	24	0.042	723.35	10	-0.0284	723.07	172+50.00	
172+75.00	721.28	-0.046	12.12	721.83	172+74.39	24	0.046	722.93	10	-0.0244	722.68	172+75.00	
173+00.00	720.66	-0.050	12.76	721.29	172+99.31	24	0.050	722.48	10	-0.0204	722.28	173+00.00	
173+25.00	720.00	-0.054	13.40	720.72	173+24.21	24	0.054	722.01	10	-0.0164	721.84	173+25.00	
173+50.00	719.31	-0.058	14.03	720.12	173+49.11	24	0.058	721.50	10	-0.0124	721.38	173+50.00	
173+64.71	718.90	-0.060	14.40	719.76	173+63.76	24	0.060	721.20	10	-0.0100	721.10	173+64.71	SC, FULL SUPER
173+75.00	718.63	-0.060	14.65	719.51	173+74.01	24	0.060	720.95	10	-0.0100	720.85	173+75.00	
174+00.00	717.96	-0.060	15.23	718.87	173+98.91	24	0.060	720.31	10	-0.0100	720.21	174+00.00	
174+25.00	717.25	-0.060	15.78	718.20	174+23.80	24	0.060	719.64	10	-0.0100	719.54	174+25.00	
174+50.00	716.53	-0.060	16.30	717.51	174+48.69	24	0.060	718.95	10	-0.0100	718.85	174+50.00	
<b>FULL SUPER</b>													
182+00.00	690.74	-0.060	17.84	691.81	181+94.87	24	0.060	693.25	10	-0.0100	693.15	182+00.00	
182+25.00	690.19	-0.060	17.43	691.24	182+19.75	24	0.060	692.68	10	-0.0100	692.58	182+25.00	
182+50.00	689.67	-0.060	16.98	690.69	182+44.63	24	0.060	692.13	10	-0.0100	692.03	182+50.00	
182+74.97	689.19	-0.060	16.50	690.18	182+69.49	24	0.060	691.62	10	-0.0100	691.52	182+74.97	CS, FULL SUPER
182+75.00	689.19	-0.060	16.50	690.18	182+69.52	24	0.060	691.62	10	-0.0100	691.52	182+75.00	
183+00.00	688.81	-0.056	15.99	689.71	182+94.41	24	0.056	691.05	10	-0.0140	690.91	183+00.00	
183+25.00	688.46	-0.052	15.46	689.26	183+19.30	24	0.052	690.51	10	-0.0180	690.33	183+25.00	
183+50.00	688.13	-0.048	14.93	688.85	183+44.20	24	0.048	690.00	10	-0.0220	689.78	183+50.00	
183+75.00	687.85	-0.044	14.41	688.48	183+69.10	24	0.044	689.54	10	-0.0260	689.28	183+75.00	
183+99.97	687.58	-0.040	13.91	688.14	183+93.97	24	0.040	689.10	10	-0.0300	688.80	183+99.97	
184+00.00	687.58	-0.040	13.91	688.14	183+94.00	24	0.040	689.10	10	-0.0300	688.80	184+00.00	
184+25.00	687.29	-0.040	13.45	687.83	184+18.91	24	0.036	688.69	10	-0.0340	688.35	184+25.00	
184+50.00	687.04	-0.040	13.02	687.56	184+43.82	24	0.032	688.33	10	-0.0380	687.95	184+50.00	
184+62.47	686.92	-0.040	12.82	687.43	184+56.26	24	0.030	688.15	10	-0.0400	687.75	184+62.47	
184+75.00	686.81	-0.040	12.63	687.32	184+68.75	24	0.028	687.99	10	-0.0400	687.59	184+75.00	
185+00.00	686.62	-0.040	12.29	687.11	184+93.69	24	0.024	687.69	10	-0.0400	687.29	185+00.00	
185+25.00	686.46	-0.040	11.98	686.94	185+18.63	24	0.020	687.42	10	-0.0400	687.02	185+25.00	
<b>SEE SHEET NO. XX</b>													

SUPERELEVATION TABLE  
SR823, NORTHBOUND MEDIAN EDGE OF PAVEMENT

SCI-823-0.00

CALCULATED  
DL  
CHECKED  
RW

**SUPERELEVATION TABLE**

SR823, CURVE # NBEOP      P.I. STA. 178+28.77

DC = 1° 46' 14"      EMAX = 0.060 FT/FT

STATION SR823 NB_EOP	NORTHBOUND, INSIDE SHOULDER			PROFILE GRADE (INSIDE EDGE OF PAVEMENT) SR823	NORTHBOUND, LANES			NORTHBOUND, OUTSIDE SHOULDER			STATION SR823 NB_EOP	REMARKS
	SHOULDER ELEVATION	SHOULDER SLOPE	SHOULDER WIDTH (EDGE OF PAVEMENT TO & SR823)		STATION SR823	PAVEMENT WIDTH	PAVEMENT SLOPE	EDGE OF PAVEMENT ELEVATION	SHOULDER WIDTH	SHOULDER SLOPE		
					SEE SHEET NO. XX							
185+49.97	686.33	-0.040	11.72	686.80	185+43.55	24	0.016	687.18	10	-0.0400	686.78	185+49.97
185+50.00	686.33	-0.040	11.72	686.80	185+43.58	24	0.016	687.18	10	-0.0400	686.78	185+50.00
185+75.00	686.24	-0.040	11.50	686.70	185+68.54	24	0.012	686.99	10	-0.0400	686.59	185+75.00
186+00.00	686.18	-0.040	11.32	686.63	185+93.51	24	0.008	686.82	10	-0.0400	686.42	186+00.00
186+25.00	686.14	-0.040	11.18	686.59	186+18.48	24	0.004	686.69	10	-0.0400	686.29	186+25.00
186+49.97	686.15	-0.040	11.08	686.59	186+43.42	24	0.000	686.59	10	-0.0400	686.19	186+49.97
186+50.00	686.15	-0.040	11.08	686.59	186+43.45	24	0.000	686.59	10	-0.0400	686.19	186+50.00
186+75.00	686.18	-0.040	11.03	686.62	186+68.44	24	-0.004	686.52	10	-0.0400	686.12	186+75.00
187+00.00	686.25	-0.040	11.01	686.69	186+93.43	24	-0.008	686.50	10	-0.0400	686.10	187+00.00
187+25.00	686.35	-0.040	11.00	686.79	187+18.42	24	-0.012	686.50	10	-0.0400	686.10	187+25.00
187+35.51	686.40	-0.040	11.00	686.84	187+28.93	24	-0.014	686.51	10	-0.0400	686.11	187+35.51
187+43.37	686.48	-0.040	11.00	686.92	187+43.37	24	-0.016	686.54	10	-0.0400	686.14	187+43.37

CALCULATED  
DL  
CHECKED  
RW

**SUPERELEVATION TABLE  
SR823, NORTHBOUND MEDIAN EDGE OF PAVEMENT**

**SCI-823-0.00**

689

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### SUPERELEVATION TABLE

SR823, CURVE # SBEOP

P.I. STA. 178+07.65

DC = 1°25'54"

EMAX = 0.052 FT/FT

STATION SR823 SB_EOP	SOUTHBOUND, OUTSIDE SHOULDER			SOUTHBOUND, LANES			STATION SR823	PROFILE GRADE (INSIDE EDGE OF PAVEMENT) SR823	SOUTHBOUND, INSIDE SHOULDER						STATION SR823 SB_EOP	REMARKS
	SHOULDER ELEVATION	SHOULDER SLOPE	SHOULDER WIDTH	EDGE OF PAVEMENT ELEVATION	PAVEMENT SLOPE	PAVEMENT WIDTH			SHOULDER WIDTH	SHOULDER SLOPE	POINT ON SHOULDER	SHOULDER WIDTH (EDGE OF PAVEMENT TO $\phi$ SR823)	SHOULDER SLOPE	SHOULDER ELEVATION		
168+89.71	726.38	-0.0400	10	726.78	-0.0160	24	168+89.71	727.17				7.50	-0.0400	726.87	168+89.71	TS,NORMAL CROWN
169+00.00	726.27	-0.0400	10	726.67	-0.0176	24	169+00.00	727.10				7.50	-0.0400	726.80	169+00.00	
169+25.00	726.00	-0.0400	10	726.40	-0.0216	24	169+25.00	726.92				7.50	-0.0400	726.62	169+25.00	
169+50.00	725.70	-0.0400	10	726.10	-0.0256	24	169+50.01	726.71				7.51	-0.0400	726.41	169+50.00	
169+75.00	725.37	-0.0400	10	725.77	-0.0296	24	169+75.02	726.48				7.52	-0.0400	726.18	169+75.00	
169+77.21	725.34	-0.0400	10	725.74	-0.0300	24	169+77.23	726.46				7.52	-0.0400	726.16	169+77.21	
170+00.00	725.02	-0.0400	10	725.42	-0.0336	24	170+00.04	726.23	2.5	-0.0336	726.31	5.05	-0.0400	726.11	170+00.00	
170+25.00	724.65	-0.0400	10	725.05	-0.0376	24	170+25.06	725.95	2.5	-0.0376	726.04	5.10	-0.0400	725.84	170+25.00	
170+39.71	724.41	-0.0400	10	724.81	-0.0400	24	170+39.78	725.77	2.5	-0.0400	725.87	5.14	-0.0400	725.67	170+39.71	
170+50.00	724.23	-0.0416	10	724.65	-0.0416	24	170+50.08	725.65	2.5	-0.0416	725.75	5.18	-0.0400	725.54	170+50.00	
170+75.00	723.77	-0.0456	10	724.22	-0.0456	24	170+75.11	725.32	2.5	-0.0456	725.43	5.28	-0.0400	725.22	170+75.00	
171+00.00	723.28	-0.0496	10	723.77	-0.0496	24	171+00.14	724.97	2.5	-0.0496	725.09	5.42	-0.0400	724.87	171+00.00	
171+14.71	722.98	-0.0520	10	723.50	-0.0520	24	171+14.87	724.75	2.5	-0.0520	724.88	5.52	-0.0400	724.66	171+14.71	SC,FULL SUPER
171+25.00	722.82	-0.0520	10	723.34	-0.0520	24	171+25.18	724.59	2.5	-0.0520	724.72	5.59	-0.0400	724.49	171+25.00	
171+50.00	722.42	-0.0520	10	722.94	-0.0520	24	171+50.22	724.19	2.5	-0.0520	724.32	5.80	-0.0400	724.09	171+50.00	
171+75.00	721.99	-0.0520	10	722.51	-0.0520	24	171+75.26	723.76	2.5	-0.0520	723.89	6.04	-0.0400	723.65	171+75.00	
172+00.00	721.54	-0.0520	10	722.06	-0.0520	24	172+00.31	723.31	2.5	-0.0520	723.44	6.28	-0.0400	723.19	172+00.00	
										<b>FULL SUPER</b>						
184+00.00	686.24	-0.0520	10	686.76	-0.0520	24	184+03.98	688.01	2.5	-0.0520	688.14	9.02	-0.0400	687.78	184+00.00	
184+25.00	685.94	-0.0520	10	686.46	-0.0520	24	184+29.05	687.71	2.5	-0.0520	687.84	8.88	-0.0400	687.48	184+25.00	
184+50.00	685.69	-0.0520	10	686.21	-0.0520	24	184+54.12	687.45	2.5	-0.0520	687.58	8.75	-0.0400	687.23	184+50.00	
184+75.00	685.46	-0.0520	10	685.98	-0.0520	24	184+79.17	687.23	2.5	-0.0520	687.36	8.64	-0.0400	687.01	184+75.00	
184+79.16	685.42	-0.0520	10	685.94	-0.0520	24	184+83.34	687.19	2.5	-0.0520	687.32	8.62	-0.0400	686.98	184+79.16	CS,FULL SUPER
185+00.00	685.38	-0.0487	10	685.87	-0.0487	24	185+04.23	687.03	2.5	-0.0487	687.16	8.55	-0.0400	686.81	185+00.00	
185+25.00	685.36	-0.0447	10	685.80	-0.0447	24	185+29.27	686.88	2.5	-0.0447	686.99	8.50	-0.0400	686.65	185+25.00	
185+50.00	685.37	-0.0407	10	685.78	-0.0407	24	185+54.32	686.75	2.5	-0.0407	686.85	8.50	-0.0400	686.51	185+50.00	
185+54.16	685.37	-0.0400	10	685.77	-0.0400	24	185+58.48	686.73	2.5	-0.0400	686.83	8.50	-0.0400	686.49	185+54.16	
185+75.00	685.38	-0.0400	10	685.78	-0.0367	24	185+79.35	686.66	2.5	-0.0367	686.75	8.50	-0.0400	686.41	185+75.00	
186+00.00	685.42	-0.0400	10	685.82	-0.0327	24	186+04.38	686.61	2.5	-0.0327	686.69	8.50	-0.0400	686.35	186+00.00	
186+16.66	685.47	-0.0400	10	685.87	-0.0300	24	186+21.06	686.59				11.00	-0.0400	686.15	186+16.66	
186+25.00	685.50	-0.0400	10	685.90	-0.0287	24	186+29.41	686.59				11.00	-0.0400	686.15	186+25.00	
186+50.00	685.61	-0.0400	10	686.01	-0.0247	24	186+54.43	686.60				11.00	-0.0400	686.16	186+50.00	
186+75.00	685.75	-0.0400	10	686.15	-0.0207	24	186+79.44	686.65				11.00	-0.0400	686.21	186+75.00	
187+00.00	685.93	-0.0400	10	686.33	-0.0167	24	187+04.45	686.73				11.00	-0.0400	686.29	187+00.00	
187+04.16	685.96	-0.0400	10	686.36	-0.0160	24	187+08.61	686.74				11.00	-0.0400	686.30	187+04.16	ST
187+24.48	686.06	-0.0400	10	686.46	-0.0160	24	187+28.93	686.84				11.00	-0.0400	686.40	187+24.48	END SB BL

CALCULATED  
DL  
CHECKED  
RW

SUPERELEVATION TABLE  
SR823, SOUTHBOUND MEDIAN EDGE OF PAVEMENT

SCI-823-0.00

3:08:45 PM 1/30/2008 g:\coo03\0064\road\phase\_3\73560604\_sr823.sht



### SUPERELEVATION TABLE

SR823, CURVE #3				P.I. STA. 223+89.04			DC = 30'			EMAX = 0.019 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		
202+45.19	727.40	-0.0400	9.5	727.78	24	-0.0160	727.40	10	-0.0400	727.00	202+45.19	NORMAL CROWN
202+50.00	727.55	-0.0400	9.5	727.93	24	-0.0153	727.57	10	-0.0400	727.17	202+50.00	
202+75.00	728.33	-0.0400	9.5	728.71	24	-0.0115	728.43	10	-0.0400	728.03	202+75.00	
203+00.00	729.10	-0.0400	9.5	729.48	24	-0.0077	729.30	10	-0.0400	728.90	203+00.00	
203+25.00	729.88	-0.0400	9.5	730.26	24	-0.0039	730.17	10	-0.0400	729.77	203+25.00	
203+50.45	730.67	-0.0400	9.5	731.05	24	0.0000	731.05	10	-0.0400	730.65	203+50.45	TS
203+75.00	731.43	-0.0400	9.5	731.81	24	0.0037	731.90	10	-0.0400	731.50	203+75.00	
204+00.00	732.20	-0.0400	9.5	732.58	24	0.0075	732.76	10	-0.0400	732.36	204+00.00	
204+25.00	732.98	-0.0400	9.5	733.36	24	0.0113	733.63	10	-0.0400	733.23	204+25.00	
204+50.00	733.75	-0.0400	9.5	734.13	24	0.0151	734.50	10	-0.0400	734.10	204+50.00	
204+55.71	733.93	-0.0400	9.5	734.31	24	0.0160	734.69	10	-0.0400	734.29	204+55.71	
204+75.00	734.53	-0.0400	9.5	734.91	24	0.0189	735.36	10	-0.0400	734.96	204+75.00	
204+75.54	734.55	-0.0400	9.5	734.93	24	0.0190	735.38	10	-0.0400	734.98	204+75.54	SC, FULL SUPER
205+00.00	735.30	-0.0400	9.5	735.68	24	0.0190	736.14	10	-0.0400	735.74	205+00.00	
205+25.00	736.08	-0.0400	9.5	736.46	24	0.0190	736.92	10	-0.0400	736.52	205+25.00	
205+50.00	736.85	-0.0400	9.5	737.23	24	0.0190	737.69	10	-0.0400	737.29	205+50.00	
205+75.00	737.63	-0.0400	9.5	738.01	24	0.0190	738.47	10	-0.0400	738.07	205+75.00	
						<b>FULL SUPER</b>						
242+25.00	850.78	-0.0400	9.5	851.16	24	0.0190	851.62	10	-0.0400	851.22	242+25.00	
242+50.00	851.55	-0.0400	9.5	851.93	24	0.0190	852.39	10	-0.0400	851.99	242+50.00	
242+75.00	852.33	-0.0400	9.5	852.71	24	0.0190	853.17	10	-0.0400	852.77	242+75.00	
242+83.53	852.59	-0.0400	9.5	852.97	24	0.0190	853.43	10	-0.0400	853.03	242+83.53	CS, FULL SUPER
243+00.00	853.10	-0.0400	9.5	853.48	24	0.0165	853.88	10	-0.0400	853.48	243+00.00	
243+03.27	853.21	-0.0400	9.5	853.59	24	0.0160	853.97	10	-0.0400	853.57	243+03.27	
243+25.00	853.88	-0.0400	9.5	854.26	24	0.0127	854.56	10	-0.0400	854.16	243+25.00	
243+50.00	854.65	-0.0400	9.5	855.03	24	0.0089	855.25	10	-0.0400	854.85	243+50.00	
243+75.00	855.43	-0.0400	9.5	855.81	24	0.0051	855.93	10	-0.0400	855.53	243+75.00	
244+00.00	856.20	-0.0400	9.5	856.58	24	0.0013	856.62	10	-0.0400	856.22	244+00.00	
244+08.53	856.47	-0.0400	9.5	856.85	24	0.0000	856.85	10	-0.0400	856.45	244+08.53	ST
244+25.00	856.98	-0.0400	9.5	857.36	24	-0.0025	857.30	10	-0.0400	856.90	244+25.00	
244+50.00	857.75	-0.0400	9.5	858.13	24	-0.0063	857.98	10	-0.0400	857.58	244+50.00	
244+75.00	858.53	-0.0400	9.5	858.91	24	-0.0101	858.67	10	-0.0400	858.27	244+75.00	
245+00.00	859.30	-0.0400	9.5	859.68	24	-0.0139	859.35	10	-0.0400	858.95	245+00.00	
245+13.79	859.73	-0.0400	9.5	860.11	24	-0.0160	859.72	10	-0.0400	859.32	245+13.79	NORMAL CROWN

CALCULATED DL CHECKED RW  
**SUPERELEVATION TABLE, CURVE #3**  
**SR823, NORTHBOUND**  
**SCI-823-0.00**  
 691

# SUPERELEVATION TABLE

SR823, CURVE #3			P.I. STA. 233+99.04			DC = 30'			EMAX = 0.019 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		
202+45.19	727.00	-0.0400	10	727.40	-0.0160	24	727.78	9.5	-0.0400	727.40	202+45.19	
202+50.00	727.15	-0.0400	10	727.55	-0.0160	24	727.93	9.5	-0.0400	727.55	202+50.00	
202+75.00	727.93	-0.0400	10	728.33	-0.0160	24	728.71	9.5	-0.0400	728.33	202+75.00	
203+00.00	728.70	-0.0400	10	729.10	-0.0160	24	729.48	9.5	-0.0400	729.10	203+00.00	
203+25.00	729.48	-0.0400	10	729.88	-0.0160	24	730.26	9.5	-0.0400	729.88	203+25.00	
203+50.45	730.26	-0.0400	10	730.66	-0.0160	24	731.05	9.5	-0.0400	730.67	203+50.45	TS
203+75.00	731.03	-0.0400	10	731.43	-0.0160	24	731.81	9.5	-0.0400	731.43	203+75.00	
204+00.00	731.80	-0.0400	10	732.20	-0.0160	24	732.58	9.5	-0.0400	732.20	204+00.00	
204+25.00	732.58	-0.0400	10	732.98	-0.0160	24	733.36	9.5	-0.0400	732.98	204+25.00	
204+50.00	733.35	-0.0400	10	733.75	-0.0160	24	734.13	9.5	-0.0400	733.75	204+50.00	
204+55.71	733.53	-0.0400	10	733.93	-0.0160	24	734.31	9.5	-0.0400	733.93	204+55.71	
204+75.00	734.05	-0.0400	10	734.45	-0.0189	24	734.91	9.5	-0.0400	734.53	204+75.00	
204+75.54	734.07	-0.0400	10	734.47	-0.0190	24	734.93	9.5	-0.0400	734.55	204+75.54	SC, FULL SUPER
205+00.00	734.83	-0.0400	10	735.23	-0.0190	24	735.68	9.5	-0.0400	735.30	205+00.00	
205+25.00	735.60	-0.0400	10	736.00	-0.0190	24	736.46	9.5	-0.0400	736.08	205+25.00	
205+50.00	736.38	-0.0400	10	736.78	-0.0190	24	737.23	9.5	-0.0400	736.85	205+50.00	
205+75.00	737.15	-0.0400	10	737.55	-0.0190	24	738.01	9.5	-0.0400	737.63	205+75.00	
<b>FULL SUPER</b>												
242+25.00	850.30	-0.0400	10	850.70	-0.0190	24	851.16	9.5	-0.0400	850.78	242+25.00	
242+50.00	851.08	-0.0400	10	851.48	-0.0190	24	851.93	9.5	-0.0400	851.55	242+50.00	
242+75.00	851.85	-0.0400	10	852.25	-0.0190	24	852.71	9.5	-0.0400	852.33	242+75.00	
242+83.53	852.12	-0.0400	10	852.52	-0.0190	24	852.97	9.5	-0.0400	852.59	242+83.53	CS, FULL SUPER
243+00.00	852.69	-0.0400	10	853.09	-0.0165	24	853.48	9.5	-0.0400	853.10	243+00.00	
243+03.27	852.80	-0.0400	10	853.20	-0.0160	24	853.59	9.5	-0.0400	853.21	243+03.27	
243+25.00	853.48	-0.0400	10	853.88	-0.0160	24	854.26	9.5	-0.0400	853.88	243+25.00	
243+50.00	854.25	-0.0400	10	854.65	-0.0160	24	855.03	9.5	-0.0400	854.65	243+50.00	
243+75.00	855.03	-0.0400	10	855.43	-0.0160	24	855.81	9.5	-0.0400	855.43	243+75.00	
244+00.00	855.80	-0.0400	10	856.20	-0.0160	24	856.58	9.5	-0.0400	856.20	244+00.00	
244+08.53	856.06	-0.0400	10	856.46	-0.0160	24	856.85	9.5	-0.0400	856.47	244+08.53	ST
244+25.00	856.58	-0.0400	10	856.98	-0.0160	24	857.36	9.5	-0.0400	856.98	244+25.00	
244+50.00	857.35	-0.0400	10	857.75	-0.0160	24	858.13	9.5	-0.0400	857.75	244+50.00	
244+75.00	858.13	-0.0400	10	858.53	-0.0160	24	858.91	9.5	-0.0400	858.53	244+75.00	
245+00.00	858.90	-0.0400	10	859.30	-0.0160	24	859.68	9.5	-0.0400	859.30	245+00.00	
245+13.79	859.32	-0.0400	10	859.72	-0.0160	24	860.11	9.5	-0.0400	859.73	245+13.79	

SUPERELEVATION TABLE, CURVE #3  
SR823, SOUTHBOUND

SCI-823-0.00

CALCULATED  
DL  
CHECKED  
RW

# SUPERELEVATION TABLE

SR823, CURVE #4

P.I. STA. 275+17.61

DC = 1'15"

EMAX = 0.044 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	POINT ON SHOULDER	SHOULDER SLOPE	SHOULDER WIDTH		PAVEMENT WIDTH	PAVEMENT SLOPE	EDGE OF PAVEMENT ELEVATION	SHOULDER WIDTH	SHOULDER SLOPE	SHOULDER ELEVATION		
258+81.51	865.32	-0.040	9.5				865.70	24	-0.0160	865.32	10	-0.0400	864.92	258+81.51	NORMAL CROWN
259+00.00	864.90	-0.040	9.5				865.28	24	-0.0160	864.90	10	-0.0400	864.50	259+00.00	
259+25.00	864.33	-0.040	9.5				864.71	24	-0.0160	864.33	10	-0.0400	863.93	259+25.00	
259+50.00	863.75	-0.040	9.5				864.13	24	-0.0160	863.75	10	-0.0400	863.35	259+50.00	
259+75.00	863.18	-0.040	9.5				863.56	24	-0.0160	863.18	10	-0.0400	862.78	259+75.00	
259+81.51	863.03	-0.040	9.5				863.41	24	-0.0160	863.03	10	-0.0400	862.63	259+81.51	TS
260+00.00	862.60	-0.040	9.5				862.98	24	-0.0160	862.60	10	-0.0400	862.20	260+00.00	
260+25.00	862.03	-0.040	9.5				862.41	24	-0.0160	862.03	10	-0.0400	861.63	260+25.00	
260+50.00	861.45	-0.040	9.5				861.83	24	-0.0160	861.45	10	-0.0400	861.05	260+50.00	
260+75.00	860.88	-0.040	9.5				861.26	24	-0.0160	860.88	10	-0.0400	860.48	260+75.00	
260+81.51	860.73	-0.040	9.5				861.11	24	-0.0160	860.73	10	-0.0400	860.33	260+81.51	
261+00.00	860.30	-0.040	9.5				860.68	24	-0.0190	860.22	10	-0.0400	859.82	261+00.00	
261+25.00	859.73	-0.040	9.5				860.11	24	-0.0230	859.56	10	-0.0400	859.16	261+25.00	
261+50.00	859.15	-0.040	9.5				859.53	24	-0.0270	858.88	10	-0.0400	858.48	261+50.00	
261+69.01	858.72	-0.040	9.5				859.10	24	-0.0300	858.38	10	-0.0400	857.98	261+69.01	
261+75.00	858.76	-0.040	7	859.04	0.0310	2.5	858.96	24	-0.0310	858.22	10	-0.0400	857.82	261+75.00	
262+00.00	858.19	-0.040	7	858.47	0.0350	2.5	858.38	24	-0.0350	857.54	10	-0.0400	857.14	262+00.00	
262+25.00	857.63	-0.040	7	857.91	0.0390	2.5	857.81	24	-0.0390	856.87	10	-0.0400	856.47	262+25.00	
262+31.51	857.48	-0.040	7	857.76	0.0400	2.5	857.66	24	-0.0400	856.70	10	-0.0400	856.30	262+31.51	
262+50.00	857.06	-0.040	7	857.34	0.0430	2.5	857.23	24	-0.0430	856.20	10	-0.0430	855.77	262+50.00	
262+56.51	856.91	-0.040	7	857.19	0.0440	2.5	857.08	24	-0.0440	856.02	10	-0.0440	855.58	262+56.51	SC, FULL SUPER
262+75.00	856.49	-0.040	7	856.77	0.0440	2.5	856.66	24	-0.0440	855.60	10	-0.0440	855.16	262+75.00	
263+00.00	855.91	-0.040	7	856.19	0.0440	2.5	856.08	24	-0.0440	855.02	10	-0.0440	854.58	263+00.00	
263+25.00	855.34	-0.040	7	855.62	0.0440	2.5	855.51	24	-0.0440	854.45	10	-0.0440	854.01	263+25.00	
263+50.00	854.76	-0.040	7	855.04	0.0440	2.5	854.93	24	-0.0440	853.87	10	-0.0440	853.43	263+50.00	
										<b>FULL SUPER</b>					
286+25.00	802.44	-0.040	7	802.72	0.0440	2.5	802.61	24	-0.0440	801.55	10	-0.0440	801.11	286+25.00	
286+50.00	801.86	-0.040	7	802.14	0.0440	2.5	802.03	24	-0.0440	800.97	10	-0.0440	800.53	286+50.00	
286+75.00	801.29	-0.040	7	801.57	0.0440	2.5	801.46	24	-0.0440	800.40	10	-0.0440	799.96	286+75.00	
286+96.07	800.80	-0.040	7	801.08	0.0440	2.5	800.97	24	-0.0440	799.91	10	-0.0440	799.47	286+96.07	CS, FULL SUPER
287+00.00	800.71	-0.040	7	800.99	0.0434	2.5	800.88	24	-0.0434	799.84	10	-0.0434	799.41	287+00.00	
287+21.07	800.22	-0.040	7	800.50	0.0400	2.5	800.40	24	-0.0400	799.44	10	-0.0400	799.04	287+21.07	
287+25.00	800.13	-0.040	7	800.41	0.0394	2.5	800.31	24	-0.0394	799.37	10	-0.0400	798.97	287+25.00	
287+50.00	799.54	-0.040	7	799.82	0.0354	2.5	799.73	24	-0.0354	798.88	10	-0.0400	798.48	287+50.00	
287+75.00	798.96	-0.040	7	799.24	0.0314	2.5	799.16	24	-0.0314	798.41	10	-0.0400	798.01	287+75.00	
287+83.57	798.58	-0.040	9.5				798.96	24	-0.0300	798.24	10	-0.0400	797.84	287+83.57	
288+00.00	798.20	-0.040	9.5				798.58	24	-0.0274	797.92	10	-0.0400	797.52	288+00.00	
288+25.00	797.63	-0.040	9.5				798.01	24	-0.0234	797.45	10	-0.0400	797.05	288+25.00	
288+50.00	797.05	-0.040	9.5				797.43	24	-0.0194	796.97	10	-0.0400	796.57	288+50.00	
288+71.07	796.57	-0.040	9.5				796.95	24	-0.0160	796.57	10	-0.0400	796.17	288+71.07	
288+75.00	796.48	-0.040	9.5				796.86	24	-0.0160	796.48	10	-0.0400	796.08	288+75.00	
289+00.00	795.90	-0.040	9.5				796.28	24	-0.0160	795.90	10	-0.0400	795.50	289+00.00	
289+25.00	795.33	-0.040	9.5				795.71	24	-0.0160	795.33	10	-0.0400	794.93	289+25.00	
289+50.00	794.75	-0.040	9.5				795.13	24	-0.0160	794.75	10	-0.0400	794.35	289+50.00	
289+71.07	794.27	-0.040	9.5				794.65	24	-0.0160	794.27	10	-0.0400	793.87	289+71.07	ST
289+75.00	794.18	-0.040	9.5				794.56	24	-0.0160	794.18	10	-0.0400	793.78	289+75.00	
290+00.00	793.60	-0.040	9.5				793.98	24	-0.0160	793.60	10	-0.0400	793.20	290+00.00	
290+25.00	793.03	-0.040	9.5				793.41	24	-0.0160	793.03	10	-0.0400	792.63	290+25.00	
290+50.00	792.45	-0.040	9.5				792.83	24	-0.0160	792.45	10	-0.0400	792.05	290+50.00	
290+71.07	791.97	-0.040	9.5				792.35	24	-0.0160	791.97	10	-0.0400	791.57	290+71.07	

SUPERELEVATION TABLE, CURVE #4  
SR823 NORTHBOUND

SCI-823-0.00

3/22/03 PM 11/23/2007 g:\p03\0064\road\phase 3\77366907\_sr823.dnt

CALCULATED  
DL  
CHECKED  
RW





CURVE# US52A-1

DC = 2°

**SUPERELEVATION TABLE**

CURVE# US52A-2

DC = 2°15' 00.00"

P.I. STA. 30+80.07

EMAX. = 0.051 FT/FT

P.I. STA. 44+55.69

EMAX. = 0.056 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	
						546.45	-0.0510	16.00	28+39.29	547.27	2.50	0.0510	547.40	7.50	-0.0400	547.098	PC, CURVE # US52A - 1
						546.54	-0.0510	16.00	28+50.00	547.36	2.50	0.0510	547.49	7.50	-0.0400	547.188	
						546.75	-0.0510	16.00	28+75.00	547.57	2.50	0.0510	547.70	7.50	-0.0400	547.398	
						546.96	-0.0510	16.00	29+00.00	547.78	2.50	0.0510	547.91	7.50	-0.0400	547.608	
						547.19	-0.0510	16.00	29+25.00	548.01	2.50	0.0510	548.14	7.50	-0.0400	547.838	
										<b>FULL SUPER</b>							
554.10	-0.051	4.00				554.30	-0.0510	16.00	32+54.50	555.12	2.50	0.0510	555.25	5.50	-0.0400	555.028	CS, CURVE # US52A-1, END FULL SUPER, BEGIN TRANSITION
554.24	-0.050	4.00				554.44	-0.0500	16.00	32+58.21	555.24	2.50	0.0500	555.37	5.50	-0.0400	555.145	
554.90	-0.045	4.00				555.08	-0.0455	16.00	32+75.00	555.81	2.50	0.0455	555.92	5.50	-0.0400	555.704	
555.72	-0.040	4.00				555.88	-0.0400	16.00	32+95.29	556.52	2.50	0.0400	556.62	5.50	-0.0400	556.400	
555.91	-0.040	4.00				556.07	-0.0387	16.00	33+00.00	556.69	2.50	0.0387	556.79	5.50	-0.0400	556.567	
556.95	-0.040	4.00				557.11	-0.0320	16.00	33+25.00	557.62				6.00	-0.0380	557.392	
557.26	-0.040	4.00				557.42	-0.0300	16.00	33+32.38	557.90				6.00	-0.0400	557.660	
558.03	-0.040	4.00				558.19	-0.0252	16.00	33+50.00	558.59				6.00	-0.0400	558.350	
559.06	-0.040	6.00				559.30	-0.0185	16.00	33+75.00	559.60				6.00	-0.0400	559.360	
559.27	-0.040	6.00				559.51	-0.0173	16.00	33+79.50	559.79				6.00	-0.0400	559.550	ST, CURVE # US52A-1
560.22	-0.040	6.00				560.46	-0.0118	16.00	34+00.00	560.65				6.00	-0.0400	560.410	
561.43	-0.040	6.00				561.67	-0.0050	16.00	34+25.00	561.75				6.00	-0.0400	561.510	
562.36	-0.040	6.00				562.60	0.0000	16.00	34+43.64	562.60				6.00	-0.0400	562.360	FLAT
562.69	-0.040	6.00				562.93	0.0017	16.00	34+50.00	562.90				6.00	-0.0400	562.660	
563.98	-0.040	6.00				564.22	0.0085	16.00	34+75.00	564.08				6.00	-0.0400	563.840	
565.31	-0.040	6.00				565.55	0.0152	16.00	35+00.00	565.31				6.00	-0.0400	565.070	
565.39	-0.040	6.00				565.63	0.0156	16.00	35+01.32	565.38				6.00	-0.0400	565.140	TS, CURVE # US52A-2
566.67	-0.040	6.00				566.91	0.0219	16.00	35+25.00	566.56				6.00	-0.0400	566.320	
568.04	-0.040	6.00				568.28	0.0287	16.00	35+50.00	567.82				6.00	-0.0400	567.580	
568.30	-0.040	6.00				568.54	0.0300	16.00	35+54.90	568.06				6.00	-0.0400	567.820	
569.55	-0.040	4.00	569.71	0.035	2.00	569.64	0.0354	16.00	35+75.00	569.07				6.00	-0.0400	568.830	
570.48	-0.040	4.00	570.64	0.040	2.00	570.56	0.0400	16.00	35+91.98	569.92				6.00	-0.0400	569.680	
570.92	-0.040	4.00	571.08	0.042	2.00	570.99	0.0422	16.00	36+00.00	570.32				6.00	-0.0422	570.067	
572.29	-0.040	4.00	572.45	0.049	2.00	572.35	0.0489	16.00	36+25.00	571.57				6.00	-0.0489	571.277	
572.51	-0.040	4.00	572.67	0.050	2.00	572.57	0.0500	16.00	36+29.07	571.77				6.00	-0.0500	571.470	
573.66	-0.040	4.00	573.82	0.056	2.00	573.71	0.0556	16.00	36+50.00	572.82				6.00	-0.0556	572.486	
573.74	-0.040	4.00	573.90	0.056	2.00	573.79	0.0560	16.00	36+51.32	572.89				6.00	-0.0560	572.554	SC, CURVE # US52A-2
574.92	-0.040	4.00	575.08	0.056	2.00	574.97	0.0560	16.00	36+75.00	574.07				6.00	-0.0560	573.734	
576.17	-0.040	4.00	576.33	0.056	2.00	576.22	0.0560	16.00	37+00.00	575.32				8.00	-0.0560	574.872	
										<b>FULL SUPER</b>							
590.80	-0.040	4.00	590.96	0.056	2.00	590.85	0.0560	16.00	51+81.64	589.95				6.00	-0.0560	589.614	CS, CURVE # US52A-2, END FULL SUPER, BEGIN TRANSITION
590.62	-0.040	4.00	590.78	0.052	2.00	590.68	0.0518	16.00	52+00.00	589.85				6.00	-0.0518	589.539	
590.55	-0.040	4.00	590.71	0.050	2.00	590.61	0.0500	16.00	52+07.89	589.81				6.00	-0.0500	589.510	
590.44	-0.040	4.00	590.60	0.046	2.00	590.51	0.0461	16.00	52+25.00	589.77				6.00	-0.0461	589.493	
590.30	-0.040	4.00	590.46	0.040	2.00	590.38	0.0404	16.00	52+50.00	589.73				6.00	-0.0404	589.488	
590.28	-0.040	4.00	590.44	0.040	2.00	590.36	0.0400	16.00	52+51.64	589.72				6.00	-0.0400	589.480	
590.14	-0.040	4.00	590.30	0.035	2.00	590.23	0.0347	16.00	52+75.00	589.68				6.00	-0.0400	589.440	
589.89	-0.040	6.00				590.13	0.0300	16.00	52+95.39	589.65				6.00	-0.0400	589.410	
589.87	-0.040	6.00				590.11	0.0289	16.00	53+00.00	589.65				6.00	-0.0400	589.410	
589.74	-0.040	6.00				589.98	0.0232	16.00	53+25.00	589.61				6.00	-0.0400	589.370	
589.61	-0.040	6.00				589.85	0.0175	16.00	53+50.00	589.57				6.00	-0.0400	589.330	
589.57	-0.040	6.00				589.81	0.0160	16.00	53+56.64	589.55				6.00	-0.0400	589.310	ST, CURVE #US52A-2, END TRANSITION, NORMAL SLOPE

CALCULATOR  
DL  
CHECKED  
RW

**SUPERELEVATION TABLE - US52 RAMP A**

**SCI-823-0.00**

3:59:01 PM 1/30/2008 g:\cadd\310064\road\phase\_3\71366p01\_us52a.sht





CURVE# US52B-1

DC = 3° 15' 00.00"

SUPERELEVATION TABLE

CURVE# US52B-2

DC = 1° 36' 00.00"

P.I. STA. 20+39.98

EMAX. = 0.071 FT/FT

P.I. STA. 42+39.68

EMAX. = 0.043 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 SHEET NO. XX							
560.53	-0.040	4.00				560.69	-0.0300	16.00	31+33.70	561.17				8.00	-0.0400	560.85	
560.99	-0.040	4.00				561.15	-0.0335	16.00	31+50.00	561.69	2.50	0.0335	561.77	5.50	-0.0400	561.55	
561.70	-0.040	4.00				561.86	-0.0389	16.00	31+75.00	562.48	2.50	0.0389	562.58	5.50	-0.0400	562.36	
561.85	-0.040	4.00				562.01	-0.0400	16.00	31+80.22	562.65	2.50	0.0400	562.75	5.50	-0.0400	562.53	
562.23	-0.043	4.00				562.40	-0.0430	16.00	31+94.17	563.09	2.50	0.0430	563.20	5.50	-0.0400	562.98	SC, CURVE * US52B-2 END TRANSITION, BEGIN FULL SUPER
										FULL SUPER							
590.31	-0.043	6.00				590.57	-0.0430	16.00	52+11.25	591.26				6.00	-0.0270	591.10	CS, CURVE * US52B-2 END FULL SUPER, BEGIN TRANSITION
590.26	-0.040	6.00				590.50	-0.0400	16.00	52+25.00	591.14				6.00	-0.0300	590.96	
590.13	-0.040	6.00				590.37	-0.0347	16.00	52+50.00	590.92	2.50	0.0347	591.01	5.50	-0.0400	590.79	
590.02	-0.040	6.00				590.26	-0.0300	16.00	52+71.72	590.74				8.00	-0.0400	590.42	
590.00	-0.040	6.00				590.24	-0.0293	16.00	52+75.00	590.71				8.00	-0.0400	590.39	
589.87	-0.040	6.00				590.11	-0.0239	16.00	53+00.00	590.49				8.00	-0.0400	590.17	
589.73	-0.040	6.00				589.97	-0.0185	16.00	53+25.00	590.27				8.00	-0.0400	589.95	
589.61	-0.040	6.00				589.85	-0.0132	16.00	53+50.00	590.06				8.00	-0.0400	589.74	
589.48	-0.040	6.00				589.72	-0.0078	16.00	53+75.00	589.84				8.00	-0.0400	589.52	
589.34	-0.040	6.00				589.58	-0.0024	16.00	54+00.00	589.62				8.00	-0.0400	589.30	
589.29	-0.040	6.00				589.53	0.0000	16.00	54+11.25	589.53				8.00	-0.0400	589.21	END TRANSITION, BEGIN TANGENT RUNOUT

CALCULATOR  
DL  
CHECKED  
RW

SUPERELEVATION TABLE - US52 RAMP B

SCI-823-0.00

697



CURVE # 140 RAMP B-1						P.I. STA. 64+28.21					CURVE # 140 RAMP B-2						P.I. STA. 76+15.06				
DC = 8°						EMAX = 0.07 FT/FT					DC = 1° 15'						EMAX = 0.035 FT/FT				
LEFT SHOULDER			RAMP PAVEMENT			BASELINE CONTROL		RAMP PAVEMENT			RIGHT SHOULDER						REMARKS				
SHOULDER ELEVATION	SHOULDER SLOPE	SHOULDER WIDTH	EDGE OF PAVEMENT ELEVATION	PAVEMENT SLOPE	PAVEMENT 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					
			554.73	0.0042	16.00	60+44.67	554.66	8.00	-0.0042	554.63							SR 140, EOP, BEGIN TRANSITION				
			554.61	0.0024	16.00	60+50.00	554.57	8.00	-0.0024	554.55							FLAT				
			554.45	0.0000	16.00	60+57.02	554.45	8.00	0.0000	554.45											
			554.11	-0.0061	16.00	60+75.00	554.21	8.00	0.0061	554.26											
553.66	-0.0400	3.00	553.78	-0.0146	16.00	61+00.00	554.01	8.00	0.0146	554.13				6.00	-0.0400	553.89					
553.47	-0.0400	3.00	553.59	-0.0230	16.00	61+25.00	553.96	8.00	0.0230	554.14				6.00	-0.0400	553.90					
553.43	-0.0400	3.00	553.55	-0.0300	16.00	61+45.55	554.03	8.00	0.0300	554.27				6.00	-0.0400	554.03					
553.44	-0.0400	3.00	553.56	-0.0315	16.00	61+50.00	554.06	8.00	0.0315	554.31				6.00	-0.0385	554.08					
553.54	-0.0400	3.00	553.66	-0.0400	16.00	61+75.00	554.30	8.00	0.0400	554.62				6.00	-0.0300	554.44					
553.55	-0.0400	3.00	553.67	-0.0400	16.00	61+75.04	554.31	8.00	0.0400	554.63				6.00	-0.0300	554.45					
553.78	-0.0485	3.00	553.92	-0.0485	16.00	62+00.00	554.70	8.00	0.0485	555.09				6.00	-0.0215	554.96					
553.92	-0.0520	3.00	554.08	-0.0520	16.00	62+10.44	554.91	8.00	0.0520	555.33				6.00	-0.0180	555.22	PC CURVE # 140RAMPB - 1				
554.17	-0.0569	3.00	554.34	-0.0569	16.00	62+25.00	555.25	8.00	0.0569	555.71				6.00	-0.0131	555.63					
554.35	-0.0600	3.00	554.53	-0.0600	16.00	62+33.95	555.49	8.00	0.0600	555.97				6.00	-0.0100	555.91					
554.71	-0.0654	3.00	554.90	-0.0654	16.00	62+50.00	555.95	8.00	0.0654	556.47	2.00	0.0654	556.60	4.00	-0.0100	556.56					
555.06	-0.0699	3.00	555.27	-0.0699	16.00	62+63.34	556.39	8.00	0.0699	556.95	2.00	0.0699	557.09	4.00	-0.0100	557.05	END TRANSITION, BEGIN FULL SUPER				
555.47	-0.0700	3.00	555.68	-0.0700	16.00	62+75.00	556.80	8.00	0.0700	557.36	2.00	0.0700	557.50	4.00	-0.0100	557.46					
556.47	-0.0700	3.00	556.68	-0.0700	16.00	63+00.00	557.80	8.00	0.0700	558.36	2.00	0.0700	558.50	4.00	-0.0100	558.46					
																	<b>FULL SUPER</b>				
567.18	-0.0700	3.00	567.39	-0.0700	16.00	65+00.00	568.51	8.00	0.0700	569.07	2.00	0.0700	569.21	4.00	-0.0100	569.17					
568.56	-0.0700	3.00	568.77	-0.0700	16.00	65+25.00	569.89	8.00	0.0700	570.45	2.00	0.0700	570.59	4.00	-0.0100	570.55					
569.11	-0.0700	3.00	569.32	-0.0700	16.00	65+35.04	570.44	8.00	0.0700	571.00	2.00	0.0700	571.14	4.00	-0.0100	571.10	END FULL SUPER, BEGIN TRANSITION				
570.00	-0.0664	3.00	570.20	-0.0664	16.00	65+50.00	571.26	8.00	0.0664	571.79	2.00	0.0664	571.92	4.00	-0.0100	571.88					
571.49	-0.0605	3.00	571.67	-0.0605	16.00	65+75.00	572.64	8.00	0.0605	573.12	2.00	0.0605	573.25	4.00	-0.0100	573.21					
571.62	-0.0600	3.00	571.80	-0.0600	16.00	65+77.13	572.76	8.00	0.0600	573.24				6.00	-0.0100	573.18					
572.98	-0.0546	3.00	573.15	-0.0546	16.00	66+00.00	574.02	8.00	0.0546	574.46				6.00	-0.0154	574.36					
574.47	-0.0486	3.00	574.61	-0.0486	16.00	66+25.00	575.39	8.00	0.0486	575.78				6.00	-0.0214	575.65					
574.96	-0.0467	3.00	575.10	-0.0467	16.00	66+33.25	575.85	8.00	0.0467	576.22				6.00	-0.0233	576.08	PT, CURVE # 140RAMPB - 1				
575.96	-0.0427	3.00	576.09	-0.0427	16.00	66+50.00	576.77	8.00	0.0427	577.11				6.00	-0.0273	576.95					
576.63	-0.0400	3.00	576.75	-0.0400	16.00	66+61.31	577.39	8.00	0.0400	577.71				6.00	-0.0300	577.53					
577.43	-0.0400	3.00	577.55	-0.0367	16.00	66+75.00	578.14	8.00	0.0367	578.43				6.00	-0.0333	578.23					
578.91	-0.0400	3.00	579.03	-0.0308	16.00	67+00.00	579.52	8.00	0.0308	579.77				6.00	-0.0392	579.53					
579.11	-0.0400	3.00	579.23	-0.0300	16.00	67+03.41	579.71	8.00	0.0300	579.95				6.00	-0.0400	579.71					
580.38	-0.0400	3.00	580.50	-0.0249	16.00	67+25.00	580.90	8.00	0.0249	581.10				6.00	-0.0400	580.86					
581.85	-0.0400	3.00	581.97	-0.0189	16.00	67+50.00	582.27	8.00	0.0189	582.42				6.00	-0.0400	582.18					
583.32	-0.0400	3.00	583.44	-0.0130	16.00	67+75.00	583.65	8.00	0.0130	583.75				6.00	-0.0400	583.51					
584.80	-0.0400	3.00	584.92	-0.0071	16.00	68+00.00	585.03	8.00	0.0071	585.09				6.00	-0.0400	584.85					
586.26	-0.0400	3.00	586.38	-0.0011	16.00	68+25.00	586.40	8.00	0.0011	586.41				6.00	-0.0400	586.17					
586.54	-0.0400	3.00	586.66	0.0000	16.00	68+29.68	586.66	8.00	0.0000	586.66				6.00	-0.0400	586.42	FLAT				
587.74	-0.0400	3.00	587.86	0.0048	16.00	68+50.00	587.78	8.00	-0.0048	587.74				6.00	-0.0400	587.50					
589.20	-0.0400	3.00	589.32	0.0108	16.00	68+75.00	589.15	8.00	-0.0108	589.06				6.00	-0.0400	588.82					
590.68	-0.0400	3.00	590.80	0.0167	16.00	69+00.00	590.53	4.46	-0.0167	590.46				6.00	-0.0400	590.22					
592.15	-0.0400	3.00	592.27	0.0226	16.00	69+25.00	591.91	0.46	-0.0226	591.90				6.00	-0.0400	591.66					
592.32	-0.0400	3.00	592.44	0.0233	16.00	69+27.89	592.07							6.00	-0.0400	591.83	PC, CURVE # 140RAMPB - 2				
593.62	-0.0400	3.00	593.74	0.0286	16.00	69+50.00	593.28							6.00	-0.0400	593.04					
593.97	-0.0400	3.00	594.09	0.0300	16.00	69+55.95	593.61							6.00	-0.0400	593.37					
595.11	-0.0355	3.00	595.21	0.0345	16.00	69+75.00	594.66							6.00	-0.0400	594.42					
595.22	-0.0350	3.00	595.33	0.0350	16.00	69+77.00	594.77							6.00	-0.0400	594.53	END TRANSITION, BEGIN FULL SUPER				
596.50	-0.0350	3.00	596.60	0.0350	16.00	70+00.00	596.04							6.00	-0.0400	595.80					
597.87	-0.0350	3.00	597.97	0.0350	16.00	70+25.00	597.41							6.00	-0.0400	597.17					
																	<b>FULL SUPER SEE SHEET NO. XX</b>				

1/30/2008 3:58:13 PM g:\co03\0064\road\phase\_3\71366ge01\_40b.sht

CALCULATED DL CHECKED RW  
**SC1-823-0.00**  
**SUPERELEVATION TABLE - 140 INTERCHANGE RAMP B**  
 699



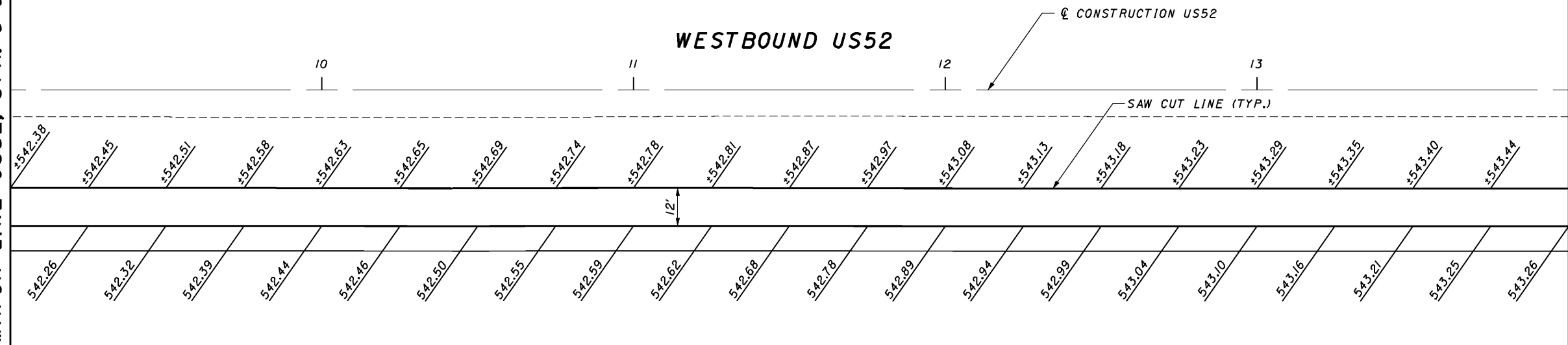
3:58:46 PM 1/30/2008 g:\co03\0064\road\phase\_3\7366gs01\_40b.sht

CURVE # 140 RAMP B-1			P.I. STA. 64+28.21			SUPERELEVATION TABLE						CURVE # 140 RAMP B-2			P.I. STA. 76+15.06			
DC = 8°			EMAX = 0.07 FT/FT									DC = 1° 15'			EMAX = 0.035 FT/FT			
LEFT SHOULDER			RAMP PAVEMENT			BASELINE CONTROL		RAMP PAVEMENT			RIGHT SHOULDER						REMARKS	
SHOULDER ELEVATION	SHOULDER SLOPE	SHOULDER WIDTH	EDGE OF PAVEMENT ELEVATION	PAVEMENT SLOPE	PAVEMENT 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		
						FULL	SUPER	SEE SHEET NO.	XX									
						82+00.00	660.19								10.00	-0.0400	659.79	
						82+25.00	661.46								10.00	-0.0400	661.06	
						82+50.00	662.72								10.00	-0.0400	662.32	
	SEE PAVEMENT DETAIL SHEET NO. XXX		}			82+66.75	663.55								10.00	-0.0400	663.15	
						82+75.00	664.00									10.00	-0.0400	663.60
						82+86.75	664.62									10.00	-0.0400	664.22
						82+92.08	664.90									10.00	-0.0400	664.50
																		PT, CURVE # 140RAMPB - 2, END RAMP B

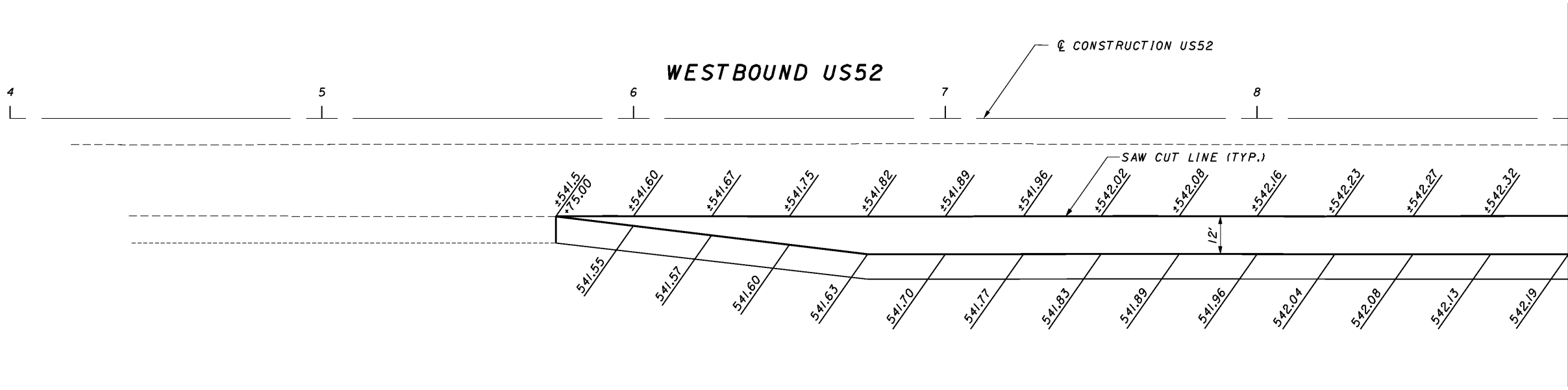


1/30/2008 3:33:21 PM g:\c003\0064\road\phase\_3\71366gcd01\_52a.sht

MATCH LINE US52, STA. 9+00



MATCH LINE US52, STA. 14+00



MATCH LINE US52, STA. 9+00

**NOTES:**

1. ELEVATIONS ARE SHOWN AT EVERY 25 FEET UNLESS OTHERWISE NOTED.

SCI 823-0.00

US52 INTERCHANGE RAMP A  
PAVEMENT ELEVATION

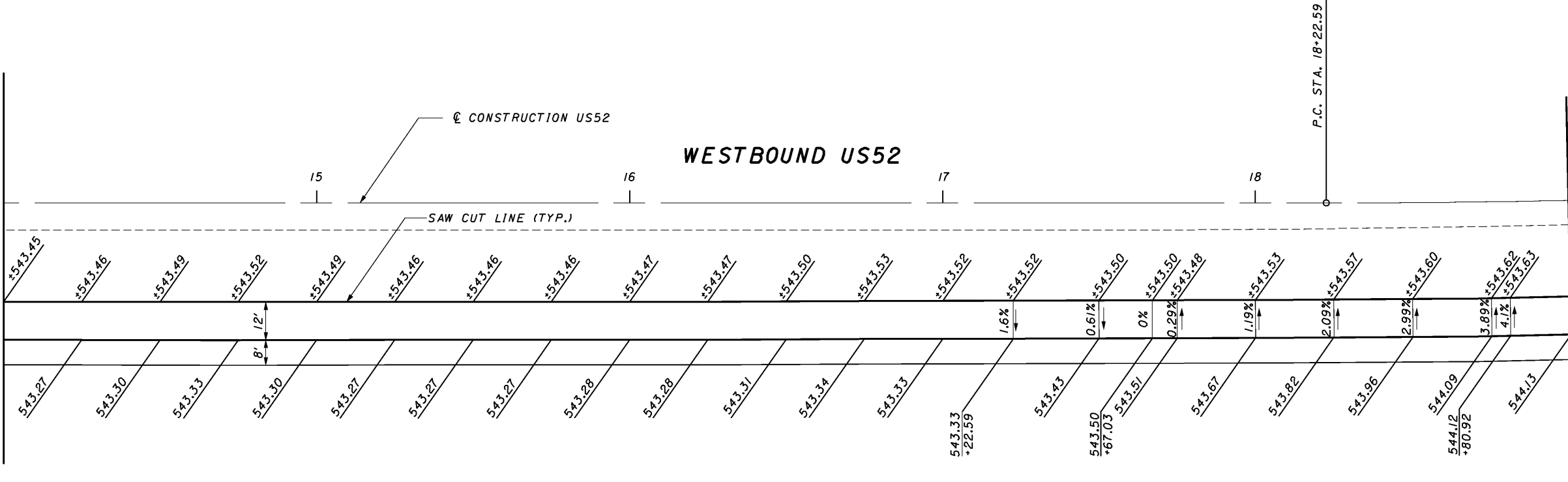
CALCULATED  
DL  
CHECKED  
RW



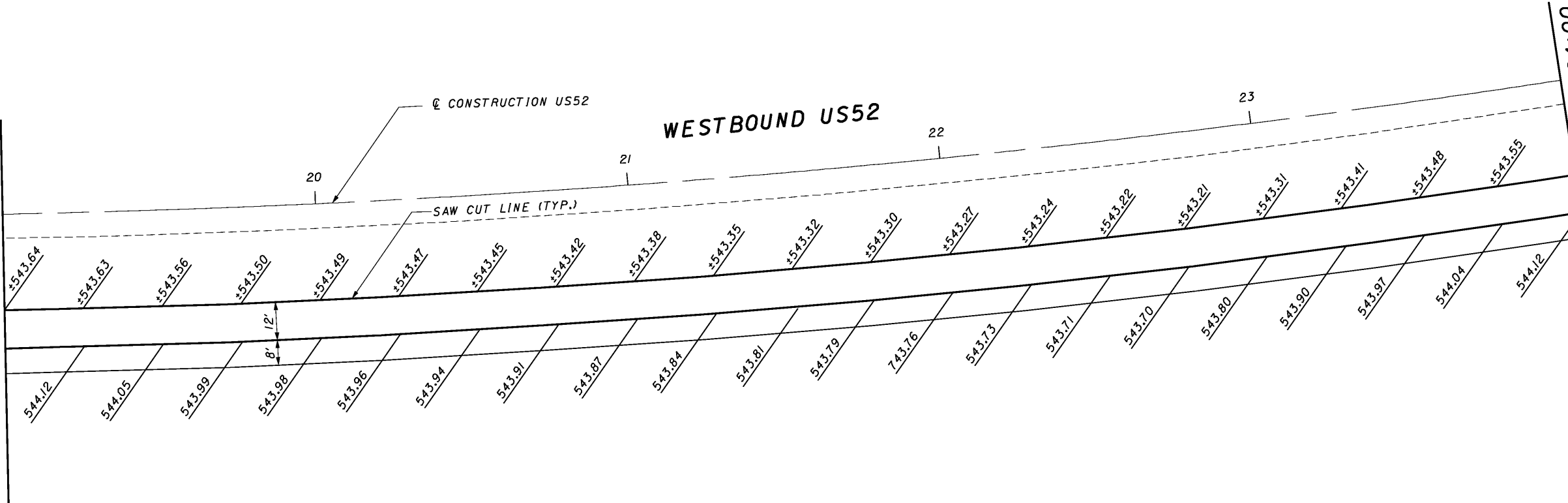


3:33:24 PM 1/30/2008 g:\co03\0064\road\phase\_3\71366cd02\_52ca.sht

MATCH LINE US52, STA. 14+00



MATCH LINE US52, STA. 19+00



**NOTES:**

1. ELEVATIONS ARE SHOWN AT EVERY 25 FEET UNLESS OTHERWISE NOTED.

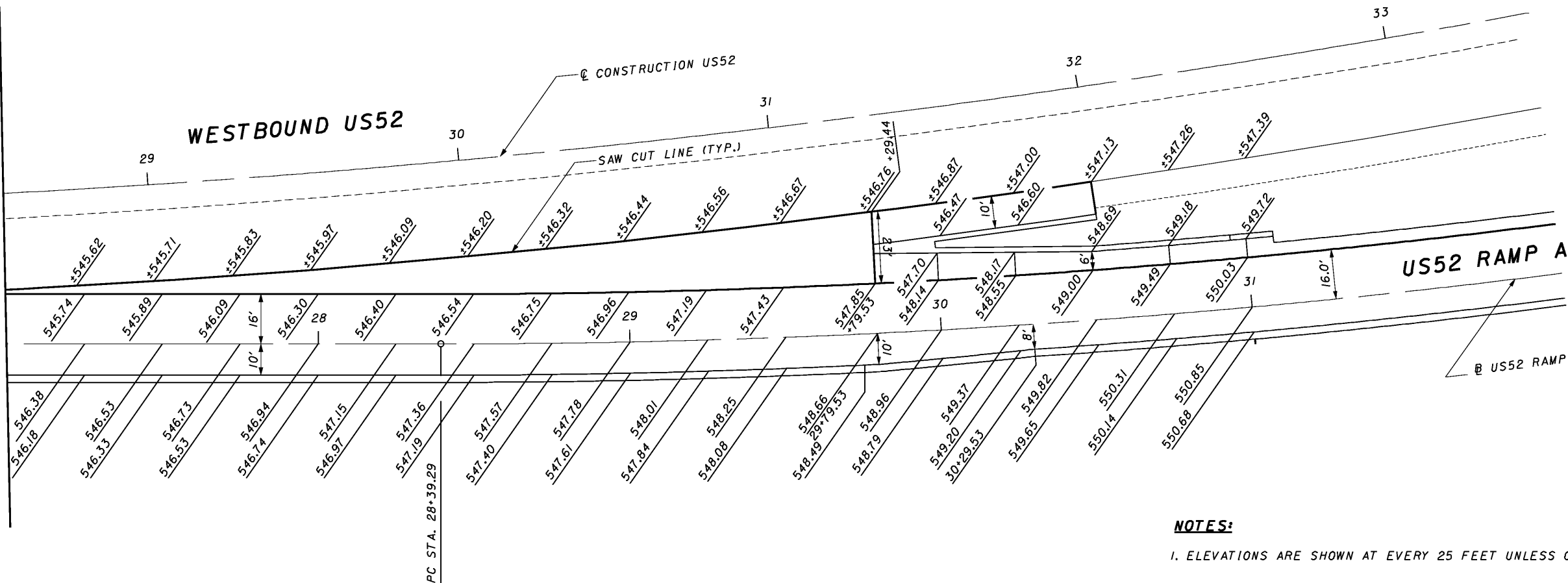


US52 INTERCHANGE RAMP A  
PAVEMENT ELEVATIONS

SCI 823-0.00

3:33:26 PM 1/30/2008 g:\c003\0064\road\phase\_3\71366c03\_52c.sht

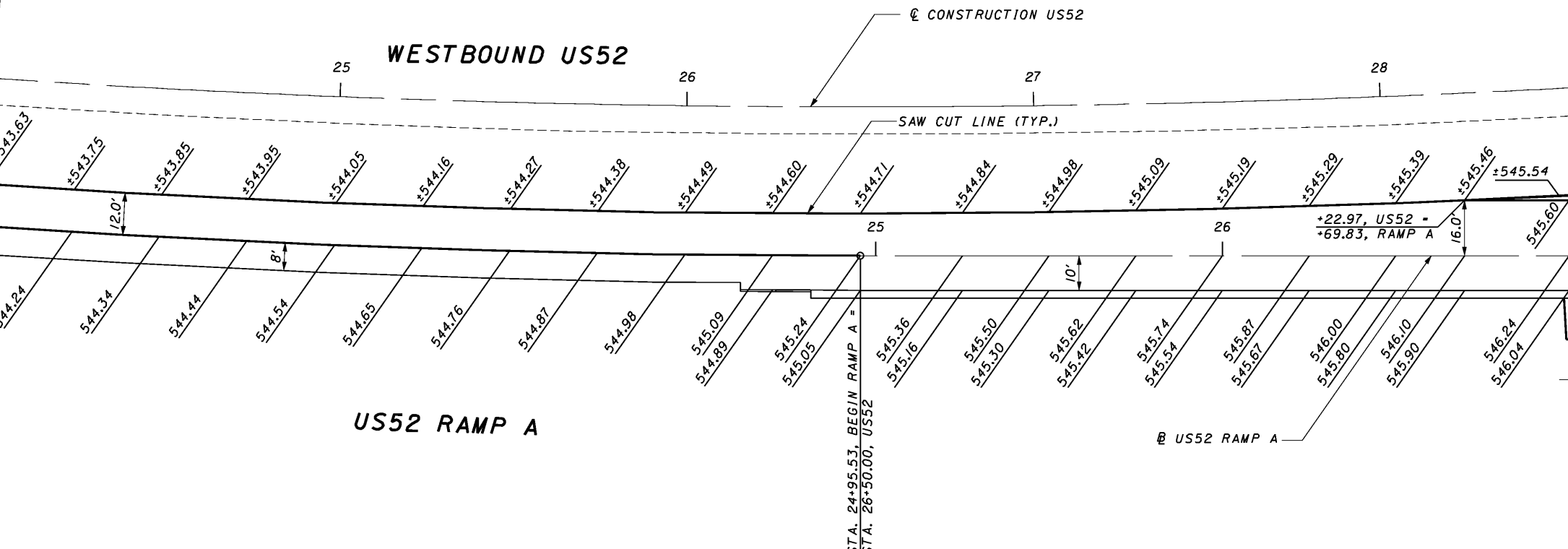
MATCH LINE US52 RAMP A, STA. 27+00 -  
MATCH LINE US52, STA. 28+54.57



**NOTES:**

1. ELEVATIONS ARE SHOWN AT EVERY 25 FEET UNLESS OTHERWISE NOTED.

MATCH LINE US52, STA. 24+00



MATCH LINE US52, STA. 28+54.57 =  
MATCH LINE US52 RAMP A, STA. 27+00

SCI 823-0.00

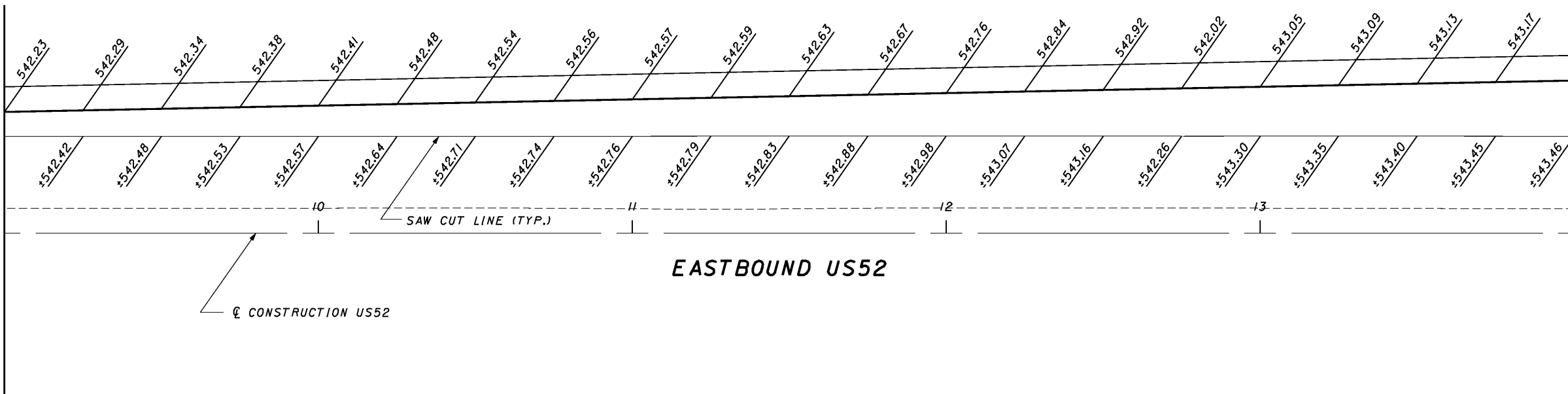
US52 INTERCHANGE RAMP A  
PAVEMENT ELEVATIONS

CALCULATED  
DL  
CHECKED  
RW



3:33:29 PM 1/30/2008 g:\co03\0064\road\phase\_3\71366cd01\_52b.sht

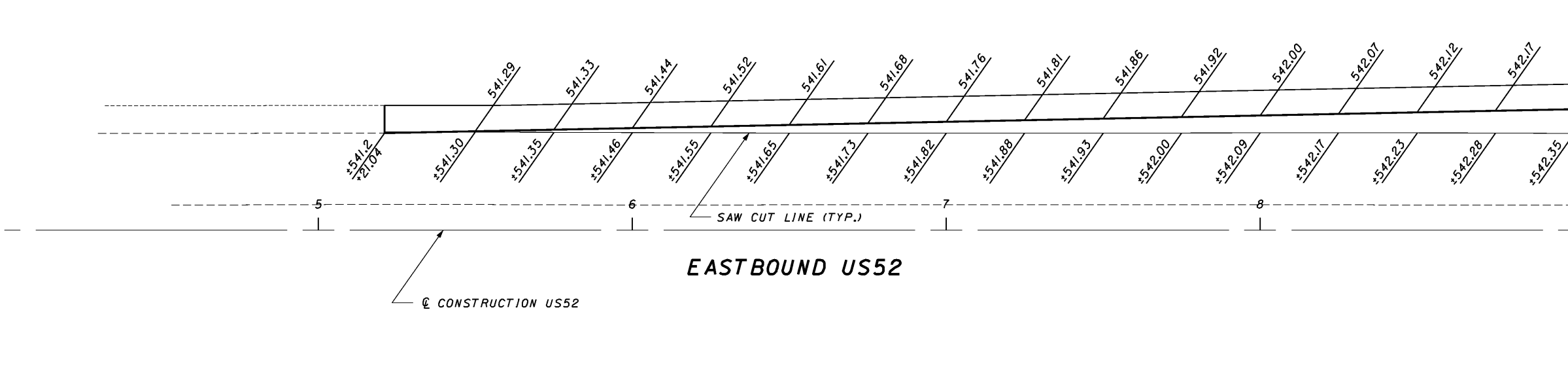
MATCH LINE US52, STA. 9+00



MATCH LINE US52, STA. 14+00



MATCH LINE US52, STA. 9+00



MATCH LINE US52, STA. 9+00



**NOTES:**

1. ELEVATIONS ARE SHOWN AT EVERY 25 FEET UNLESS OTHERWISE NOTED.

CALCULATED  
DL  
CHECKED  
RW



US52 INTERCHANGE RAMP B  
PAVEMENT ELEVATIONS

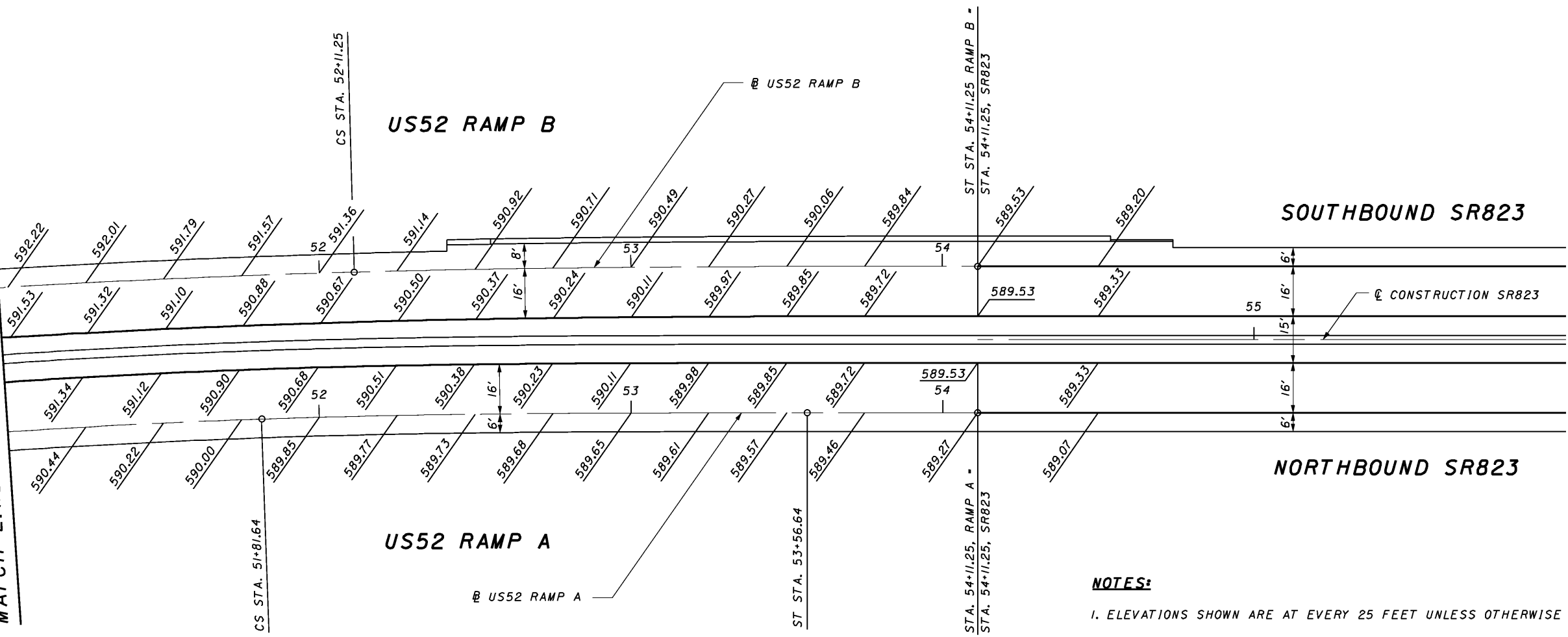
SCI 823-0.00





3:33:36 PM 1/30/2008 g:\co03\0064\road\phase\_3\7366cd01\_52\_a.b.sht

MATCH LINE US52 RAMP A, STA. 51+00.00 -  
MATCH LINE US52 RAMP B, STA. 50.96.92



**NOTES:**

1. ELEVATIONS SHOWN ARE AT EVERY 25 FEET UNLESS OTHERWISE NOTED.

US52 RAMP B

US52 RAMP A

SOUTHBOUND SR823

NORTHBOUND SR823

MATCH LINE US52 RAMP A, STA. 51+00.00 -  
MATCH LINE US52 RAMP B, STA. 50+96.92



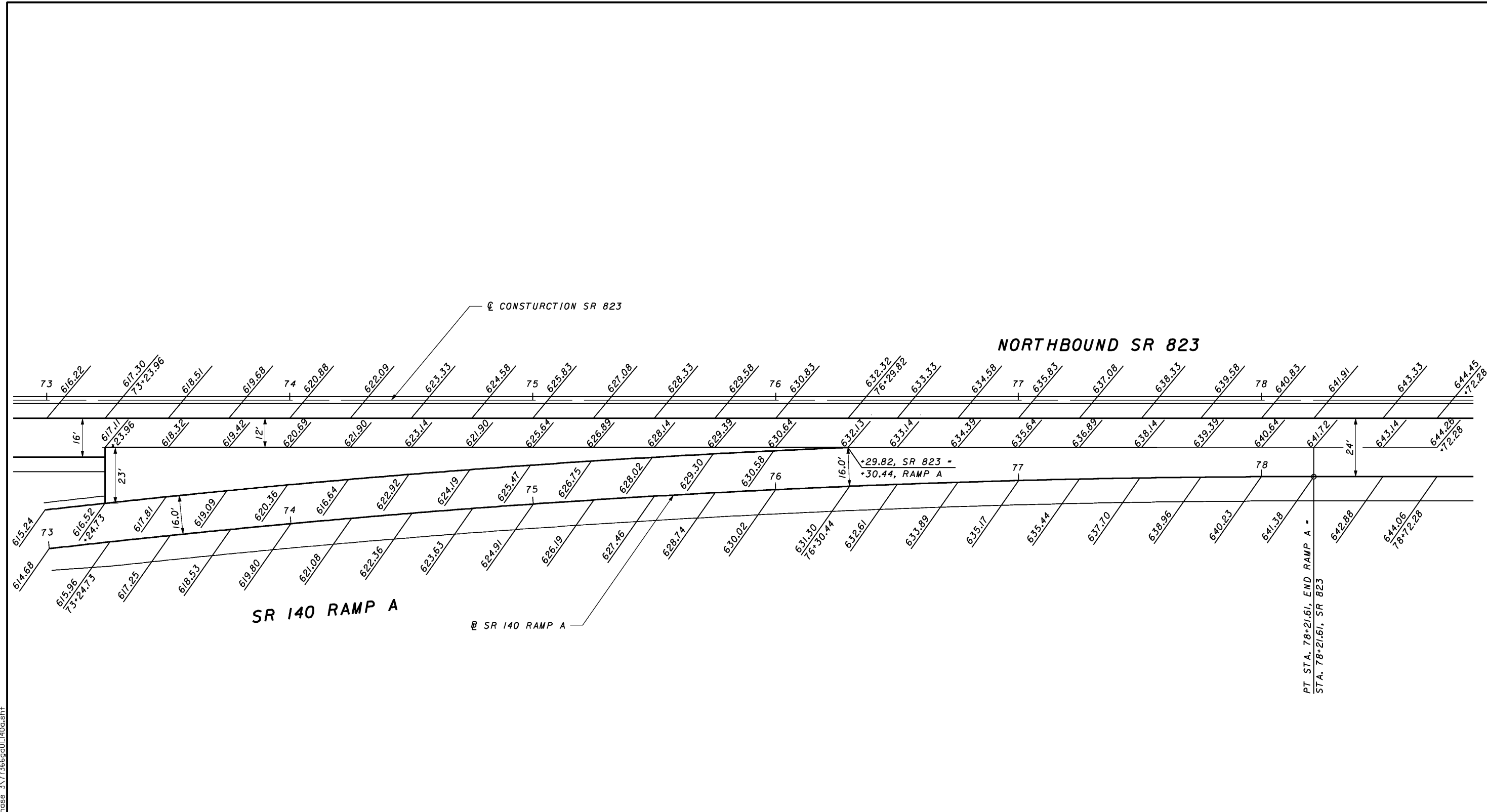
CALCULATED	DL
CHECKED	RW

**US52 INTERCHANGE RAMP A AND RAMP B  
PAVEMENT ELEVATIONS**

SCI 823-0.00

707





**NOTES:**

1. ELEVATIONS ARE SHOWN AT EVERY 25 FEET UNLESS OTHERWISE NOTED.

CALCULATED  
DL

CHECKED  
RM

0 10 20  
HORIZONTAL  
SCALE IN FEET

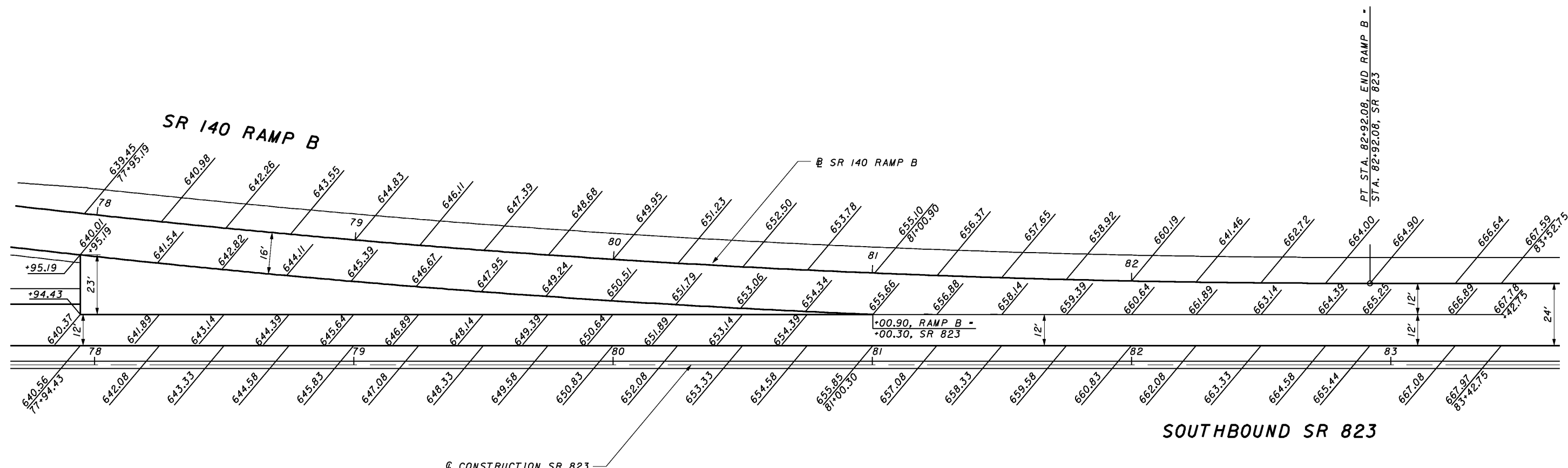
**SR140 INTERCHANGE RAMP A PAVEMENT ELEVATIONS**

**SCI-823-0.00**

708



3:33:39 PM 1/30/2008 g:\co03\0064\road\phase\_3\7366gcd\140b.sht



CALCULATED  
DL  
CHECKED  
RW

0 10 20  
HORIZONTAL  
SCALE IN FEET

**140 INTERCHANGE RAMP B PAVEMENT ELEVATIONS**

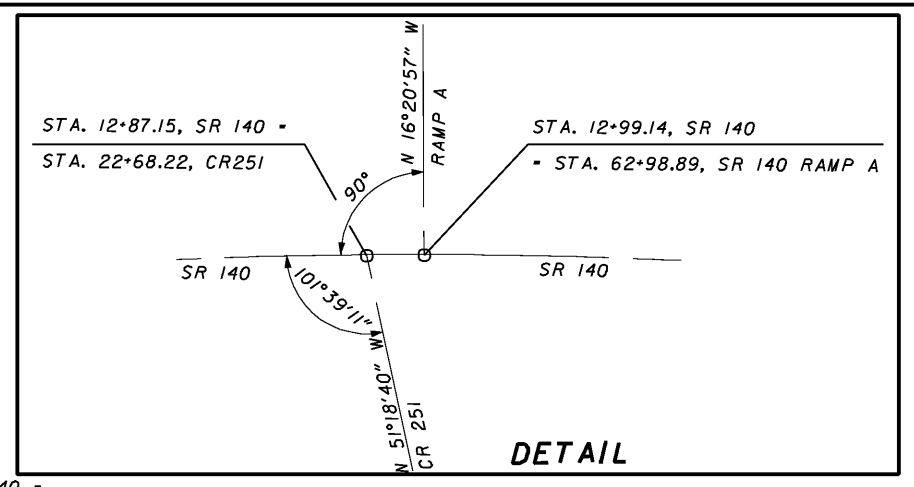
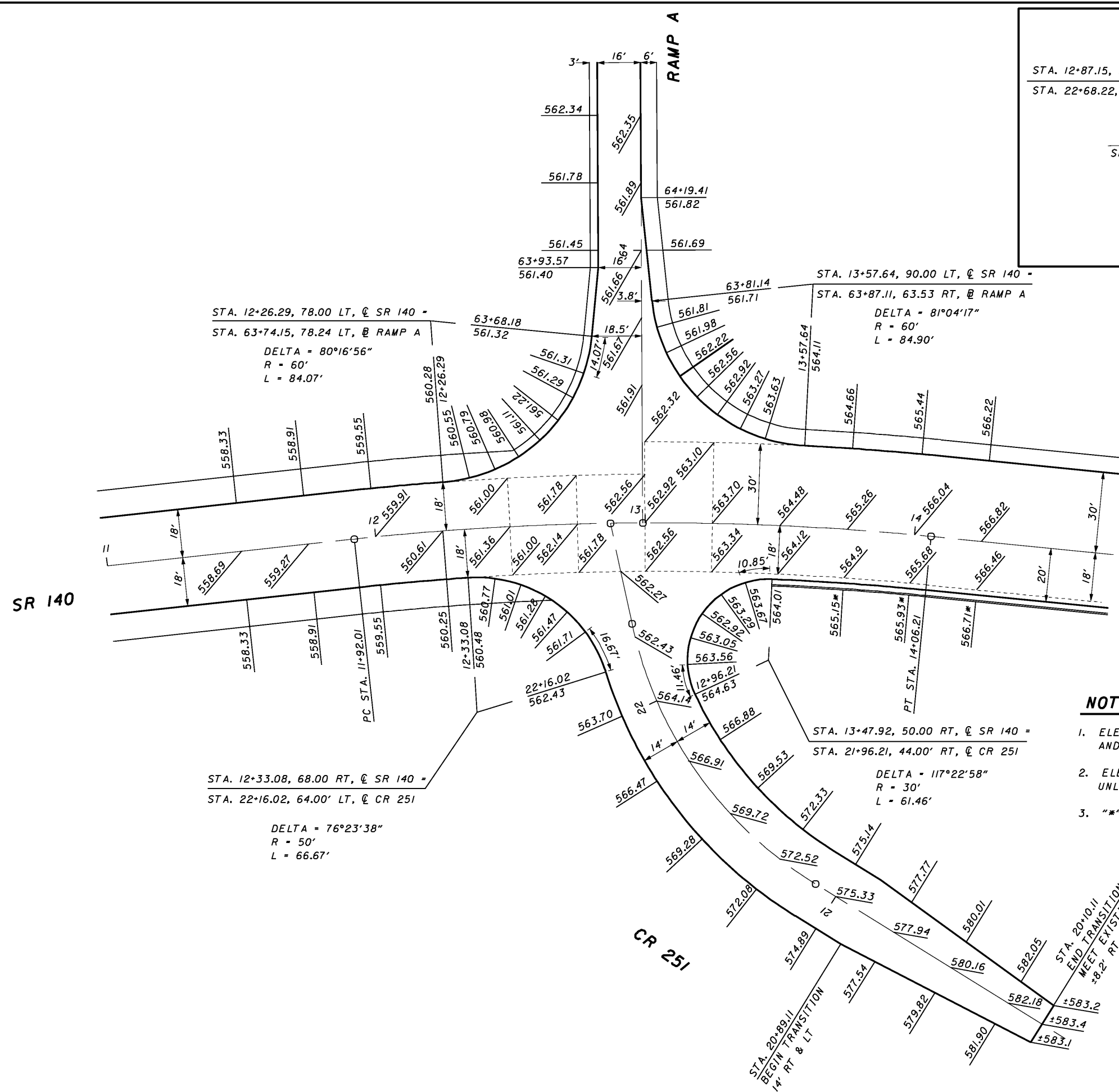
**SCI 823-0.00**

**NOTES:**  
1. ELEVATIONS ARE SHOWN AT EVERY 25 FEET UNLESS OTHERWISE NOTED

PT. STA. 82+92.08, END RAMP B -  
STA. 82+92.08, SR 823

+00.90, RAMP B -  
+00.30, SR 823

3:33:40 PM 1/30/2008 g:\co03\0064\road\phase\_3\71366g105\_srl140.sht



**NOTES:**

1. ELEVATIONS ARE SHOWN AT EVERY 25' ALONG SR 140 @, CR251 @ AND SR140 RAMP A @, UNLESS OTHERWISE NOTED.
2. ELEVATIONS ALONG THE RADIUS RETURNS ARE SHOWN AT EVERY 10', UNLESS OTHERWISE NOTED
3. "\*" INDICATES TOP OF THE CURB ELEVATION

CALCULATED DL  
CHECKED RW

0 10 20 40  
HORIZONTAL SCALE IN FEET

**INTERSECTION DETAIL  
SR140, RAMP A, AND CR251**

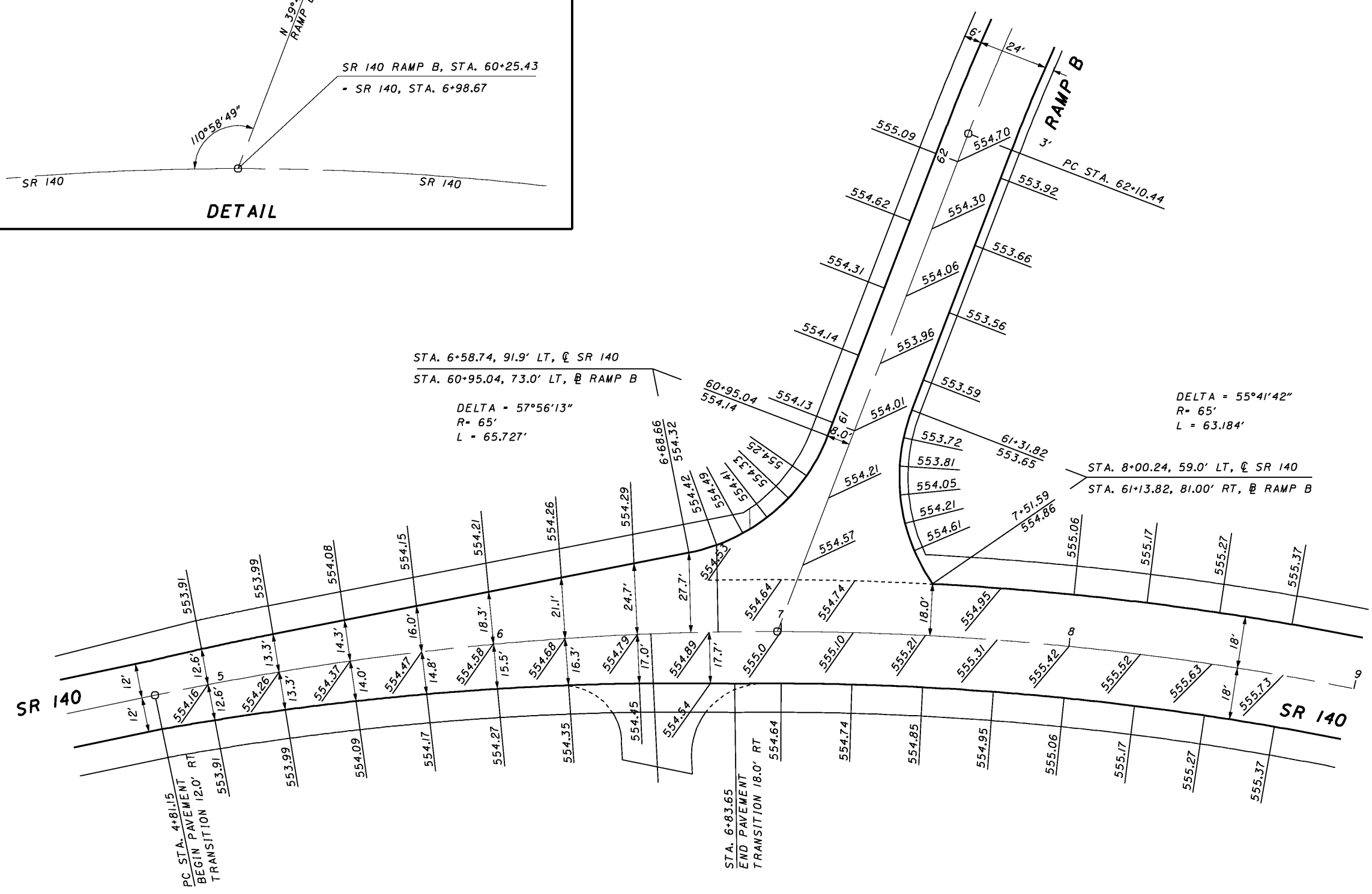
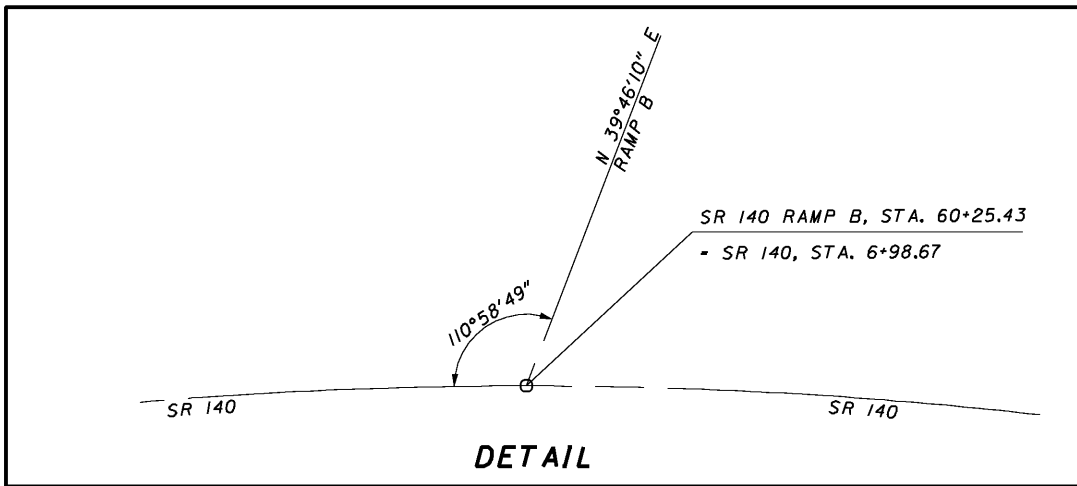
**SCI-823-0.00**



CALCULATED CM  
CHECKED RW

INTERSECTION DETAIL SR140 AND RAMP B

SCI-823-0.00

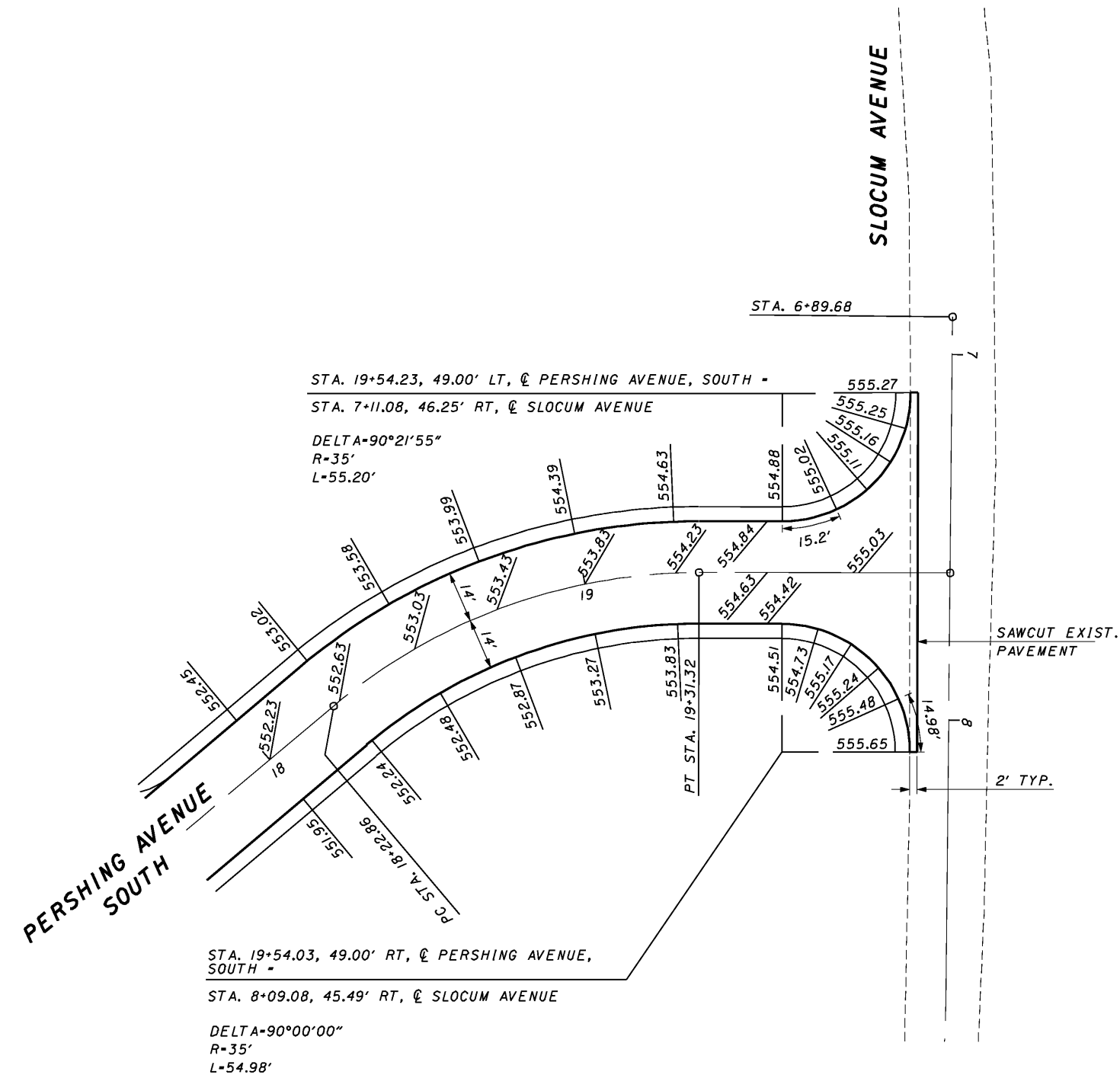
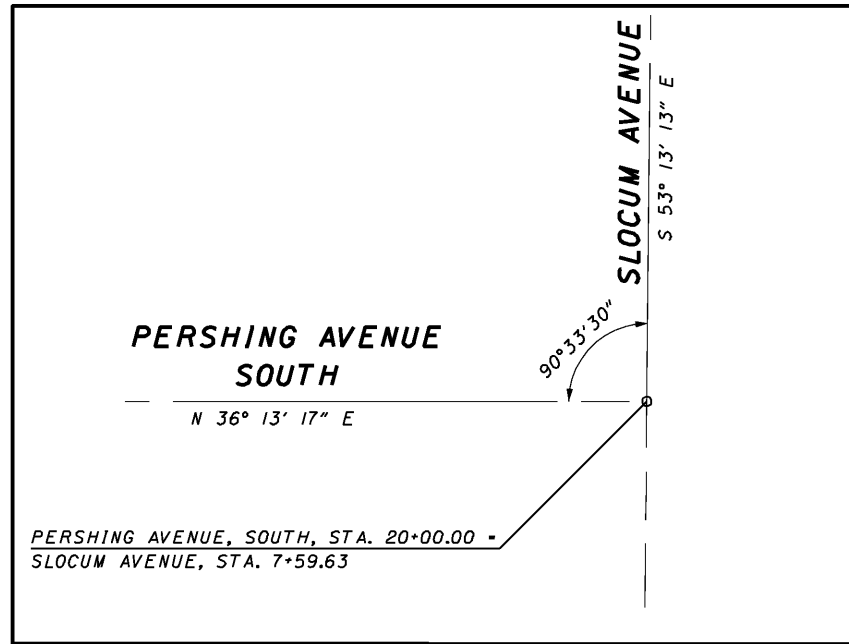


**NOTES:**

1. ELEVATIONS ARE SHOWN AT EVERY 25' ALONG SR140 @ AND SR140 RAMP B @, UNLESS OTHERWISE NOTED.
2. ELEVATIONS ALONG THE RADIUS RETURNS ARE SHOWN AT EVERY 10', UNLESS OTHERWISE NOTED.



3:33:45 PM 1/30/2008 g:\co03\0064\road\phase\_3\71366g107\_per-se.sht



**NOTES:**

1. ELEVATIONS ARE SHOWN AT EVERY 25', UNLESS OTHERWISE NOTED.
2. ELEVATIONS ALONG THE RADIUS RETURNS ARE SHOWN AT EVERY 10' UNLESS OTHERWISE NOTED.

CALCULATED  
DL

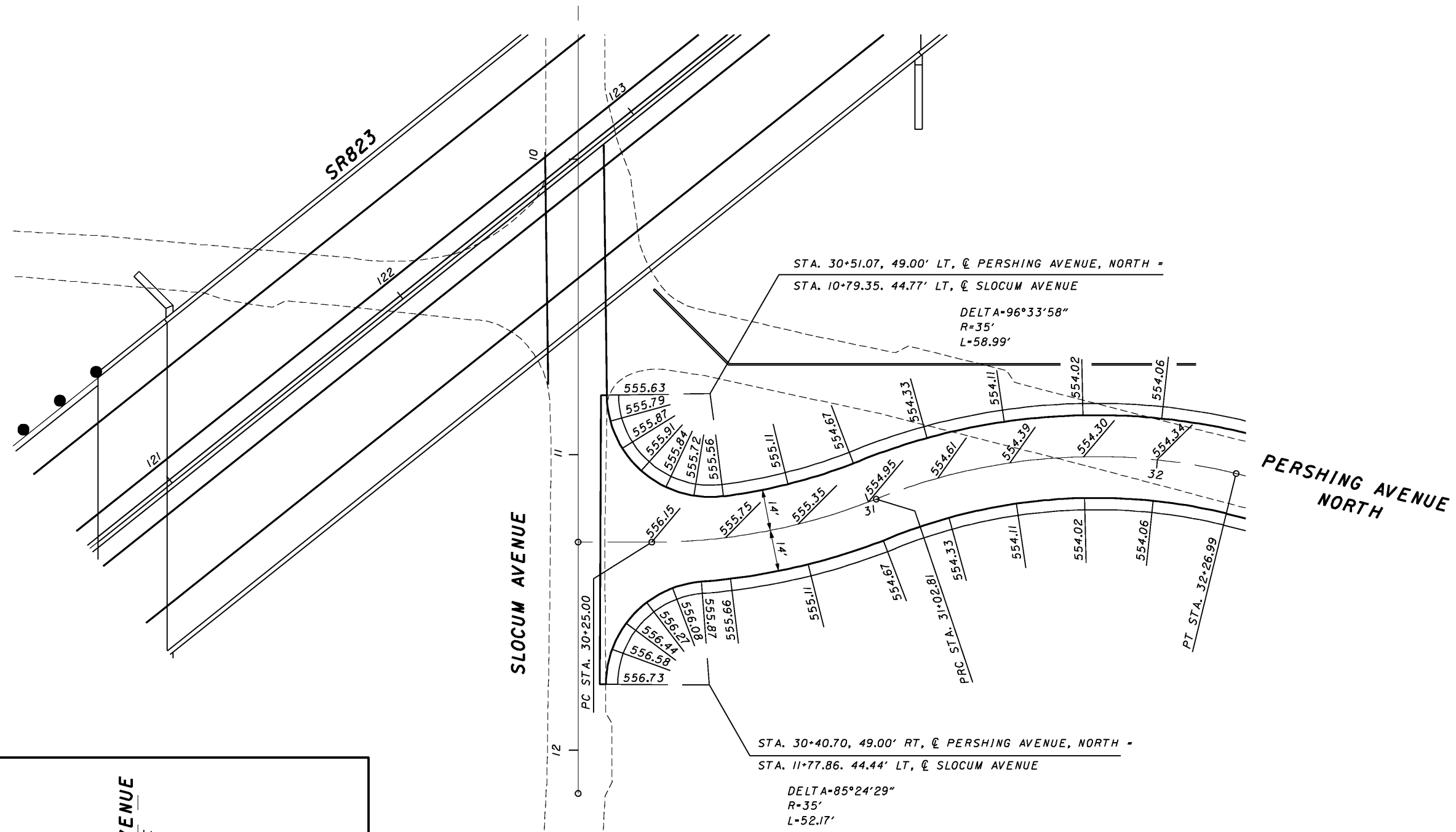
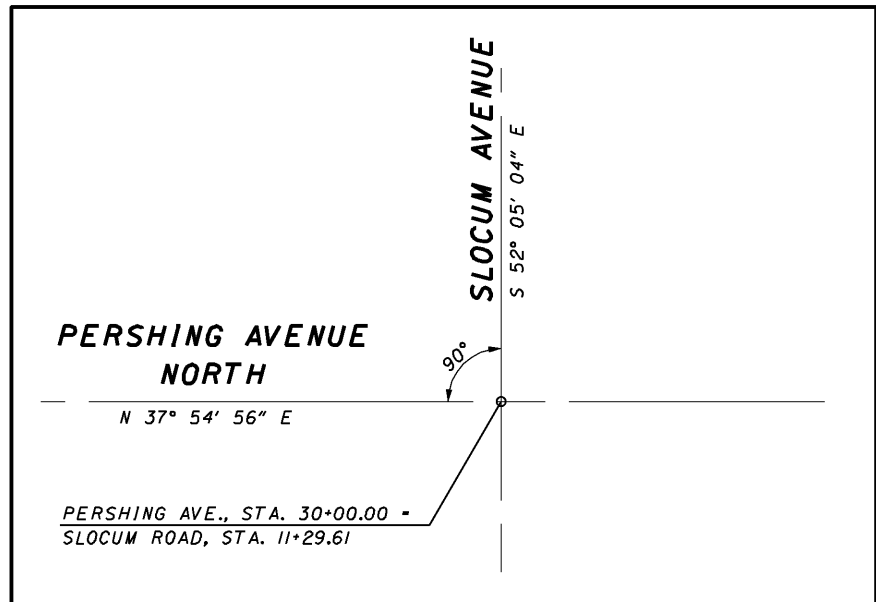
CHECKED  
RW

HORIZONTAL SCALE IN FEET

**INTERSECTION DETAIL  
PERSHING AVENUE SOUTH & SLOCUM AVENUE**

**SCI-823-0.00**

3:33:48 PM 1/30/2008 g:\co03\0064\road\phase\_3\71366g\08\_persn.sht



**NOTES:**

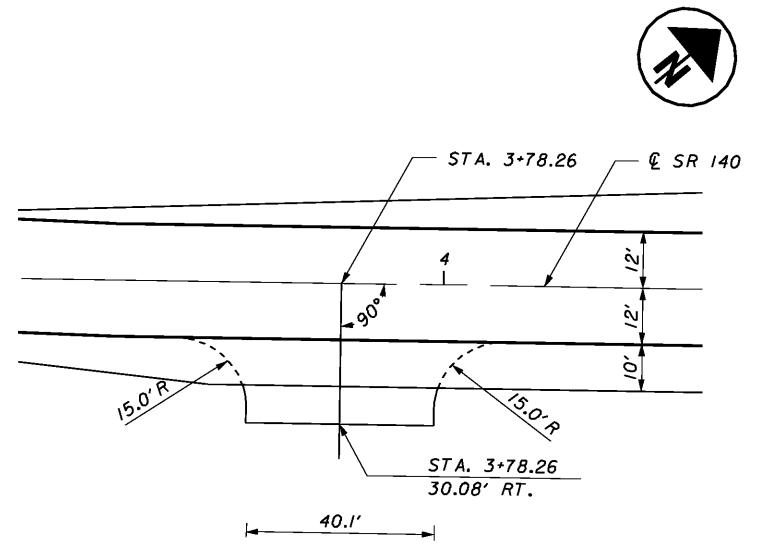
1. ELEVATIONS ARE SHOWN AT EVERY 25' UNLESS OTHERWISE NOTED.
2. ELEVATIONS ALONG THE RADIUS RETURNS ARE SHOWN AT EVERY 10' UNLESS OTHERWISE NOTED.

CALCULATED DL  
CHECKED RW

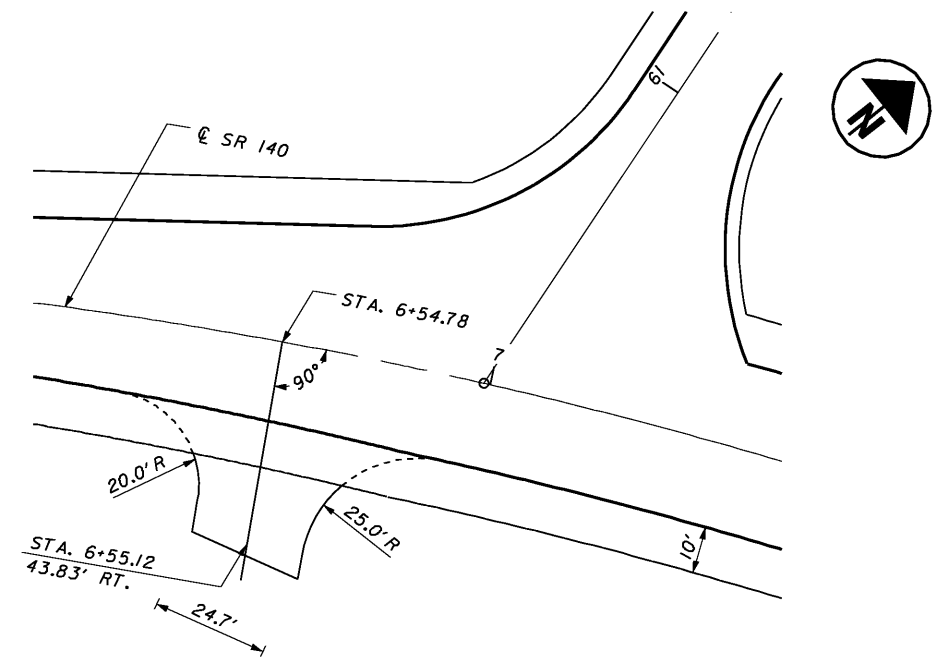
0 20 40  
HORIZONTAL SCALE IN FEET

**INTERSECTION DETAIL  
PERSHING AVENUE NORTH & SLOCUM AVENUE**

**SCI-823-0.00**

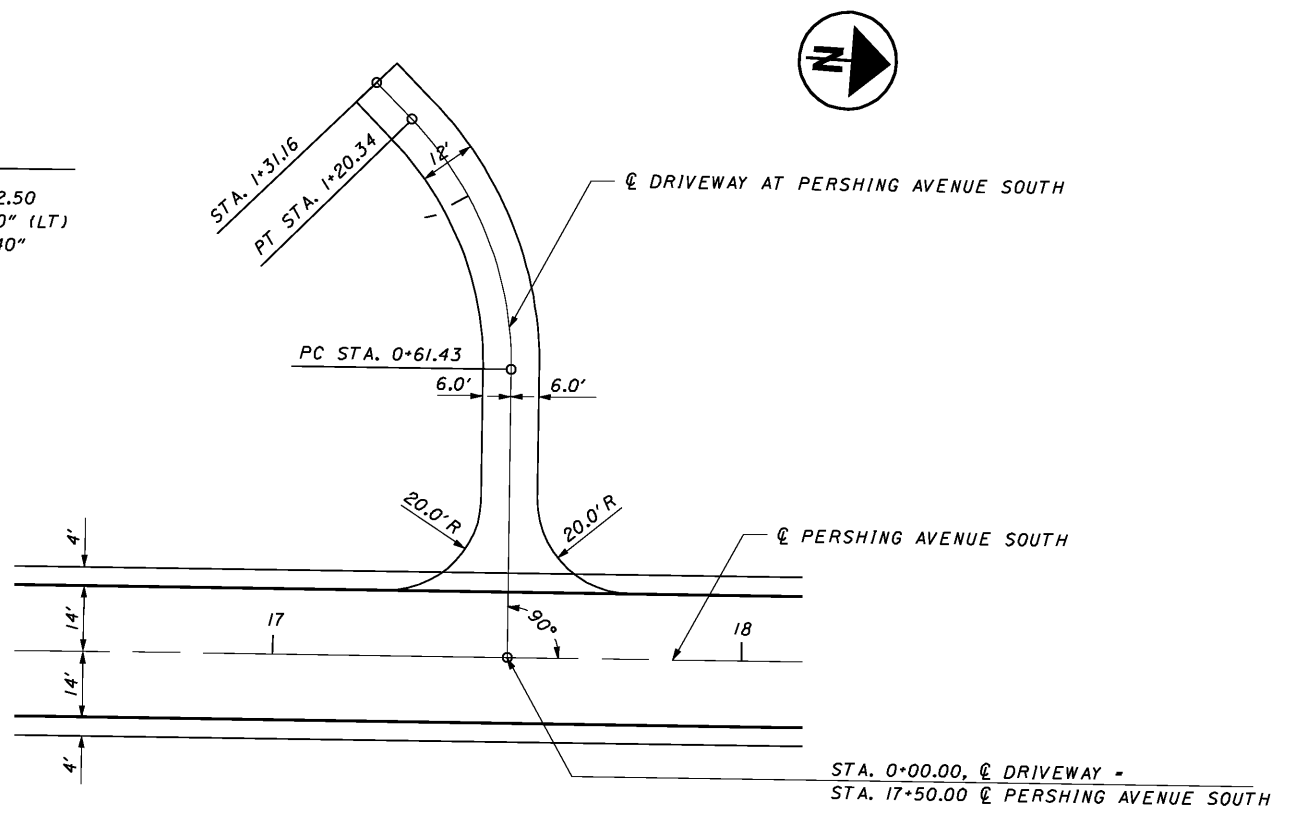


SR 140, STA. 3+78.26, RT. (AGGREGATE DRIVE)



SR 140, STA. 6+54.78, RT. (AGGREGATE DRIVE)

**CURVE DATA**  
 P.I. Sta = 0+92.50  
 D = 45° 00' 00" (LT)  
 Dc = 76° 23' 40"  
 R = 75.00'  
 T = 31.07'  
 L = 58.90'  
 E = 6.18'



DRIVEWAY AT PERSHING AVENUE SOUTH (AGGREGATE DRIVE)

**NOTES :**

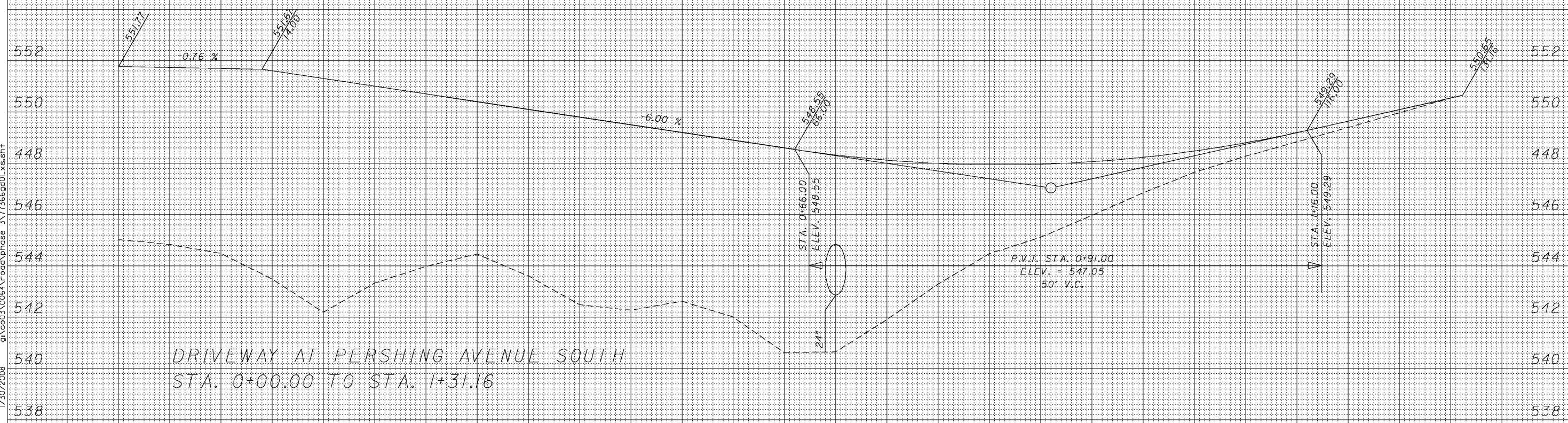
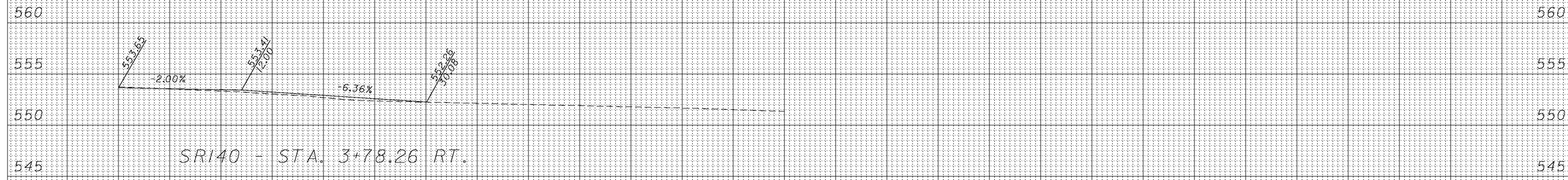
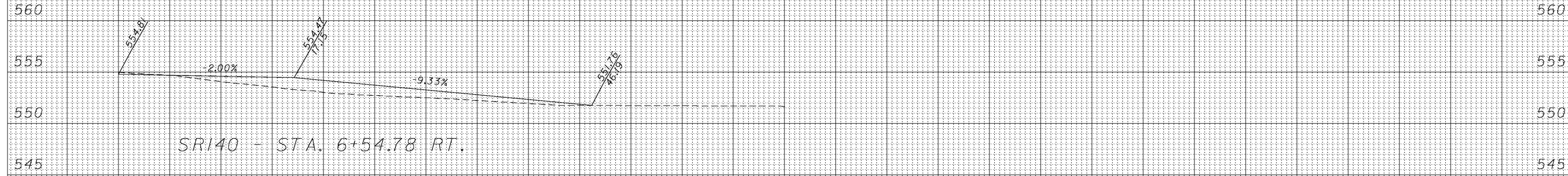
1. FOR DRIVEWAY PROFILES SEE SHEET # XXX
2. FOR DRIVEWAY TYPICAL SECTIONS SEE SHEET # XXX

1/30/2008 3:49 PM g:\ec03\0064r\oad\pbase 3\77366g001.sh1



0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130

CALCULATED  
DL  
CHECKED  
RN



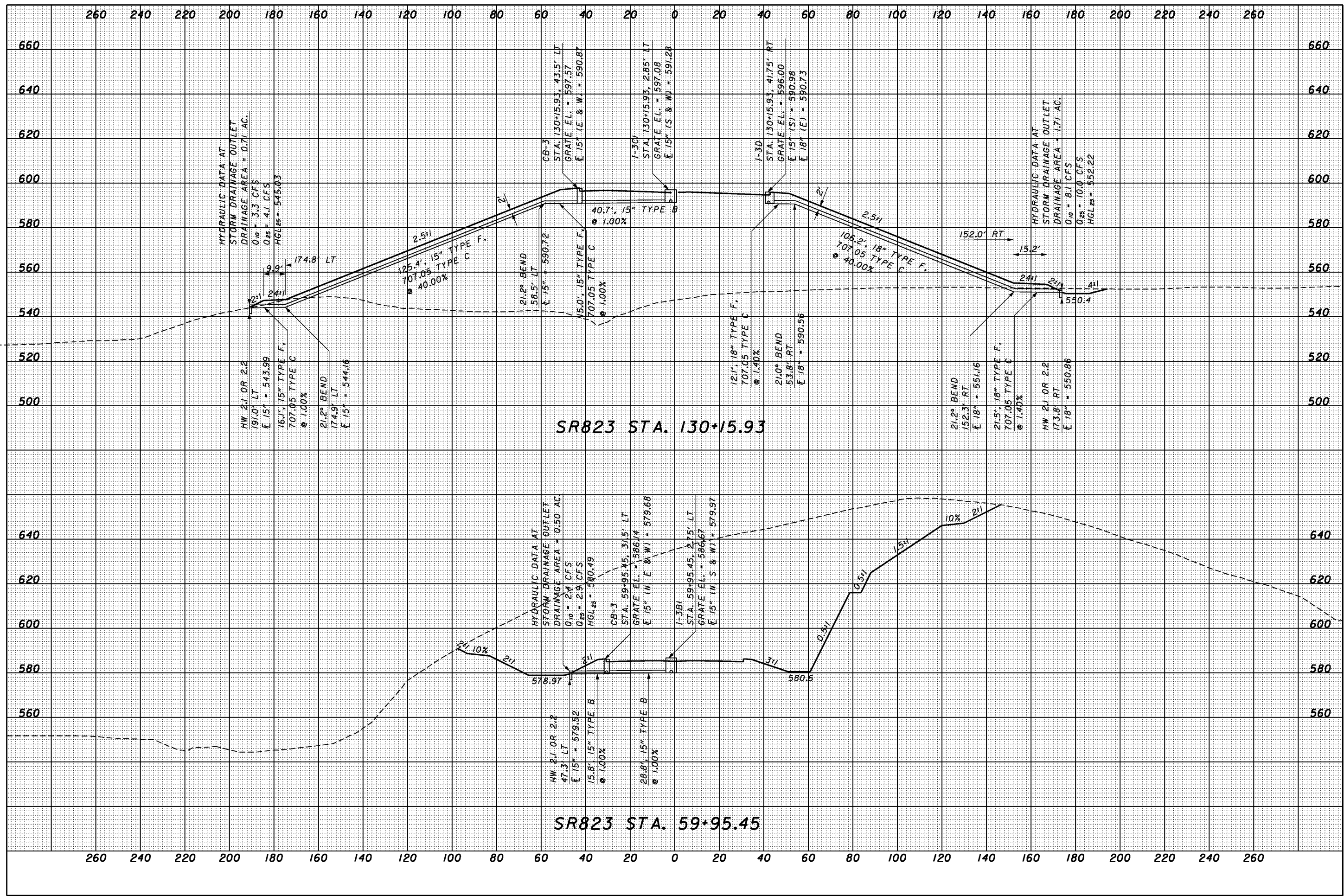
DRIVEWAY PROFILES

SCI-823-0.00

1/30/2008 3:33:50 PM g:\cadd\0064\road\phase 3\77366cd01\_xs.dnt

1/30/2008 3:03:08 AM

G:\C003\0064\Road\PHASE 3\171366.dwg

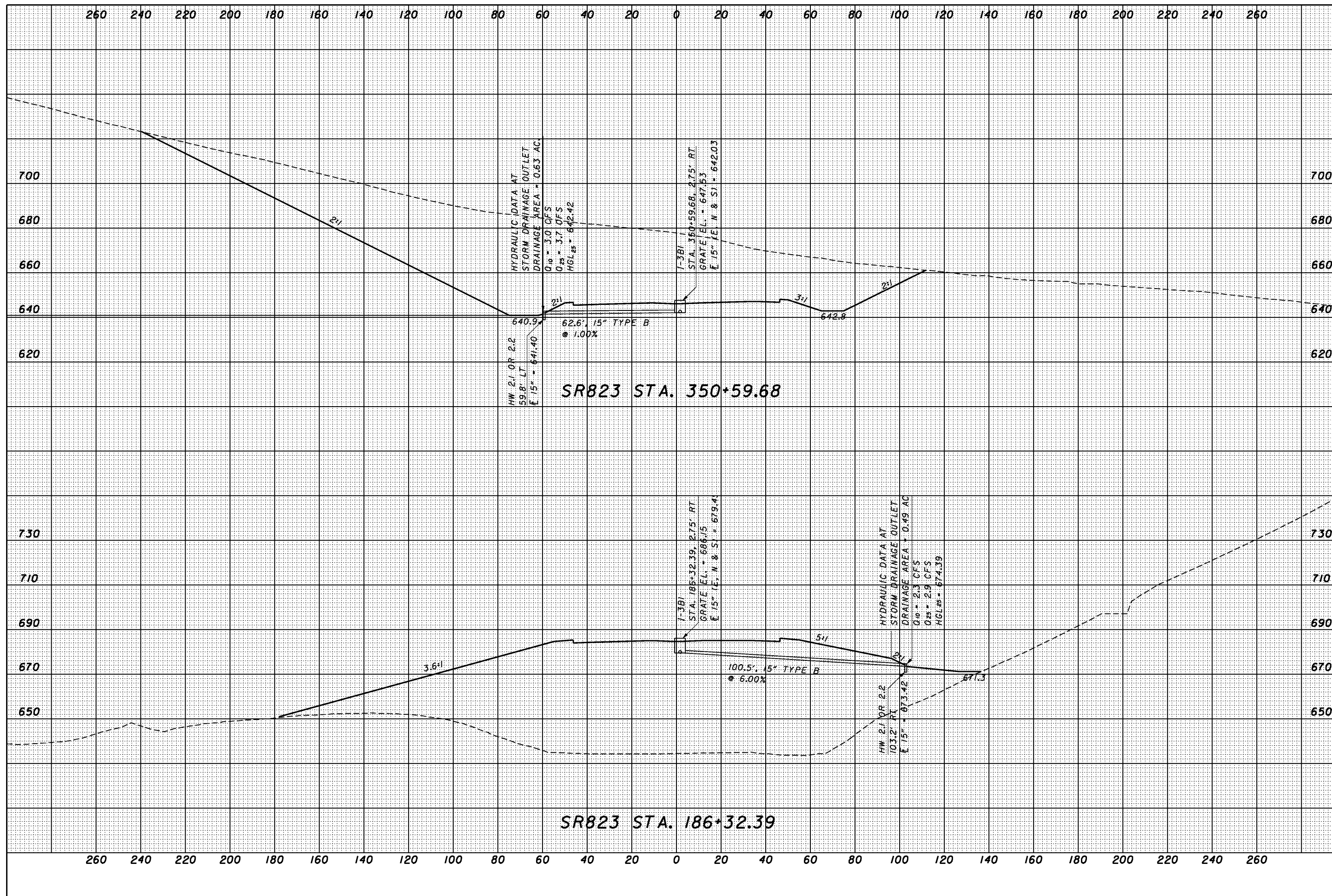


CALCULATED  
DL  
CHECKED  
RW

SR823 DRAINAGE PROFILES

SCI-823-0.00

1/30/2008 3:10:30 AM G:\C003\0064\Road\PHASE 3\171366.dwg

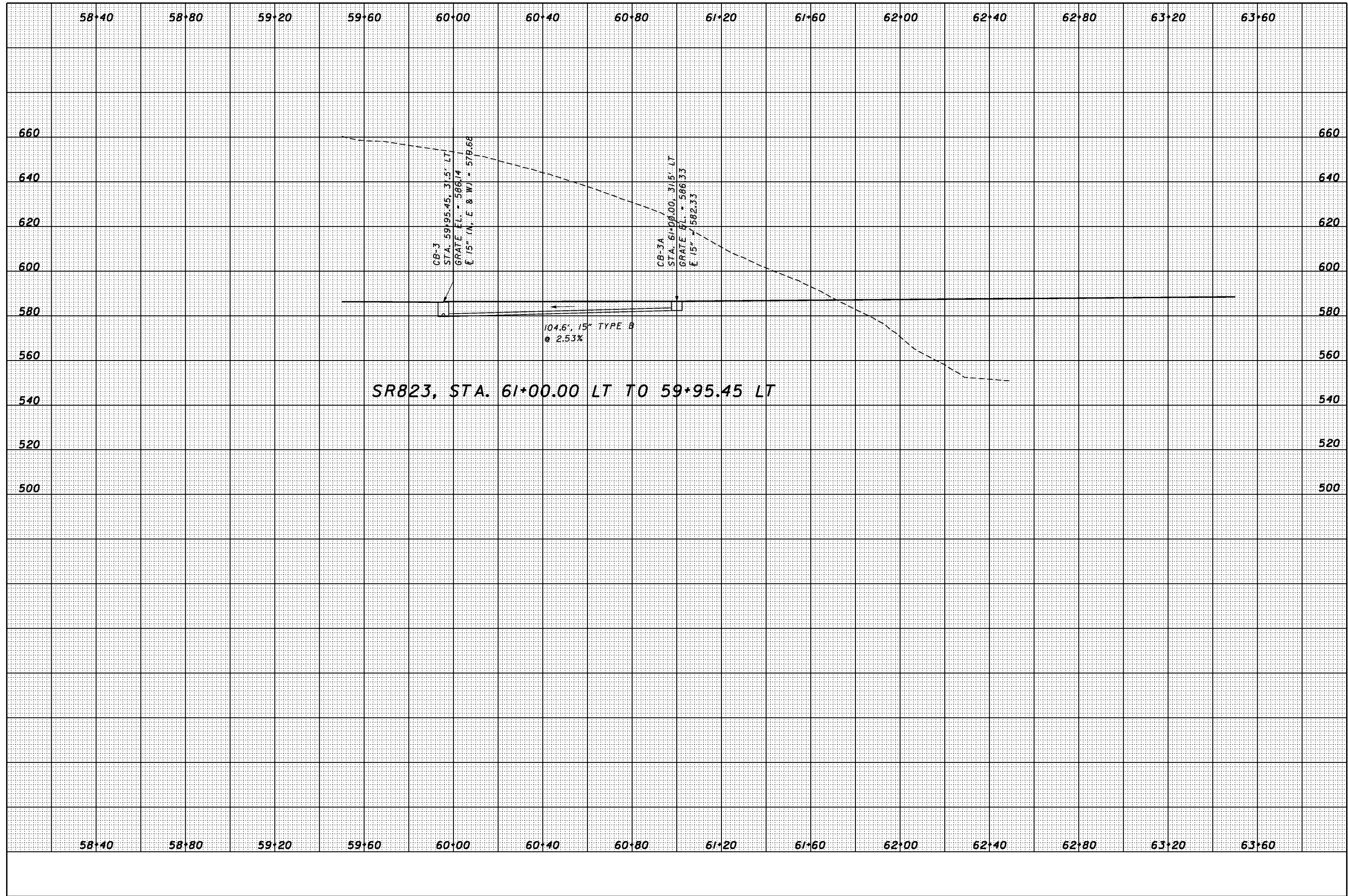


CALCULATED  
DL  
CHECKED  
RW

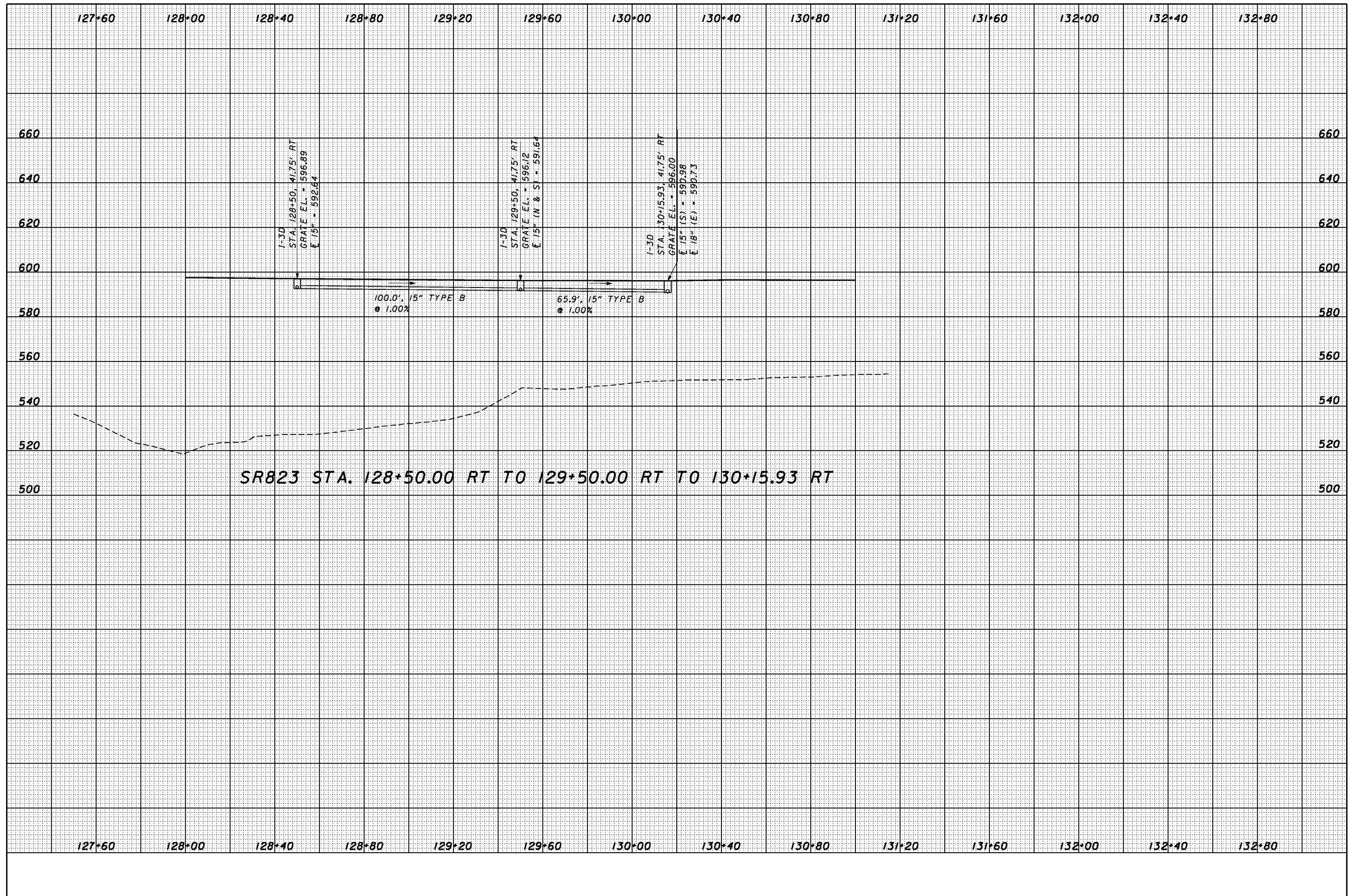
SR823 DRAINAGE PROFILES

SCI-823-0.00





1/30/2008 8:03:12 AM G:\C003\0064\Road\PHASE 3\T1366d\F04.sht

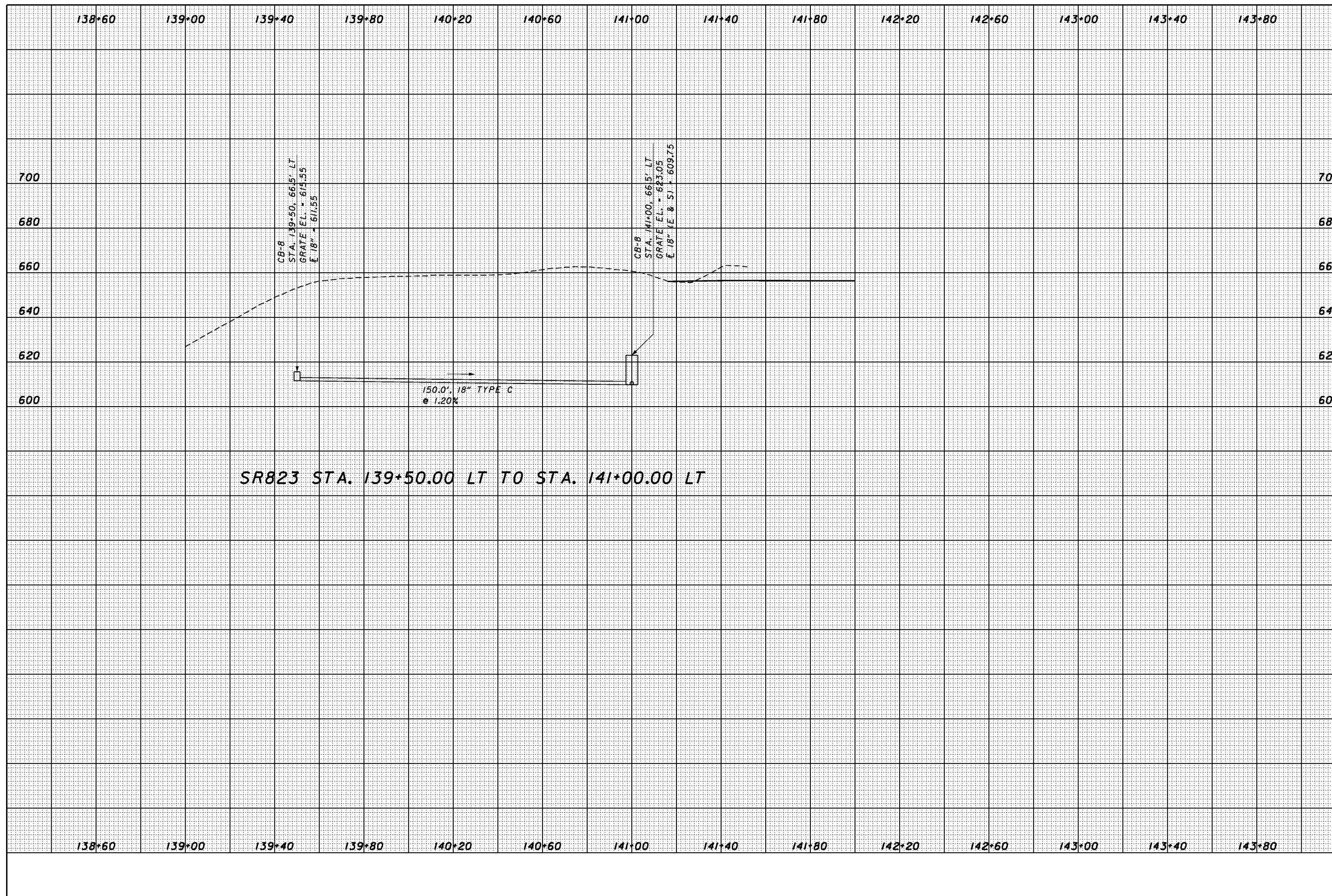


CALCULATED  
DL  
CHECKED  
RW

SR823 DRAINAGE PROFILES

SCI-823-0+00

1/30/2008 8:03:13 AM G:\C003\0064\Road\PHASE 3\T1366d\F05.sht



SR823 STA. 139+50.00 LT TO STA. 141+00.00 LT

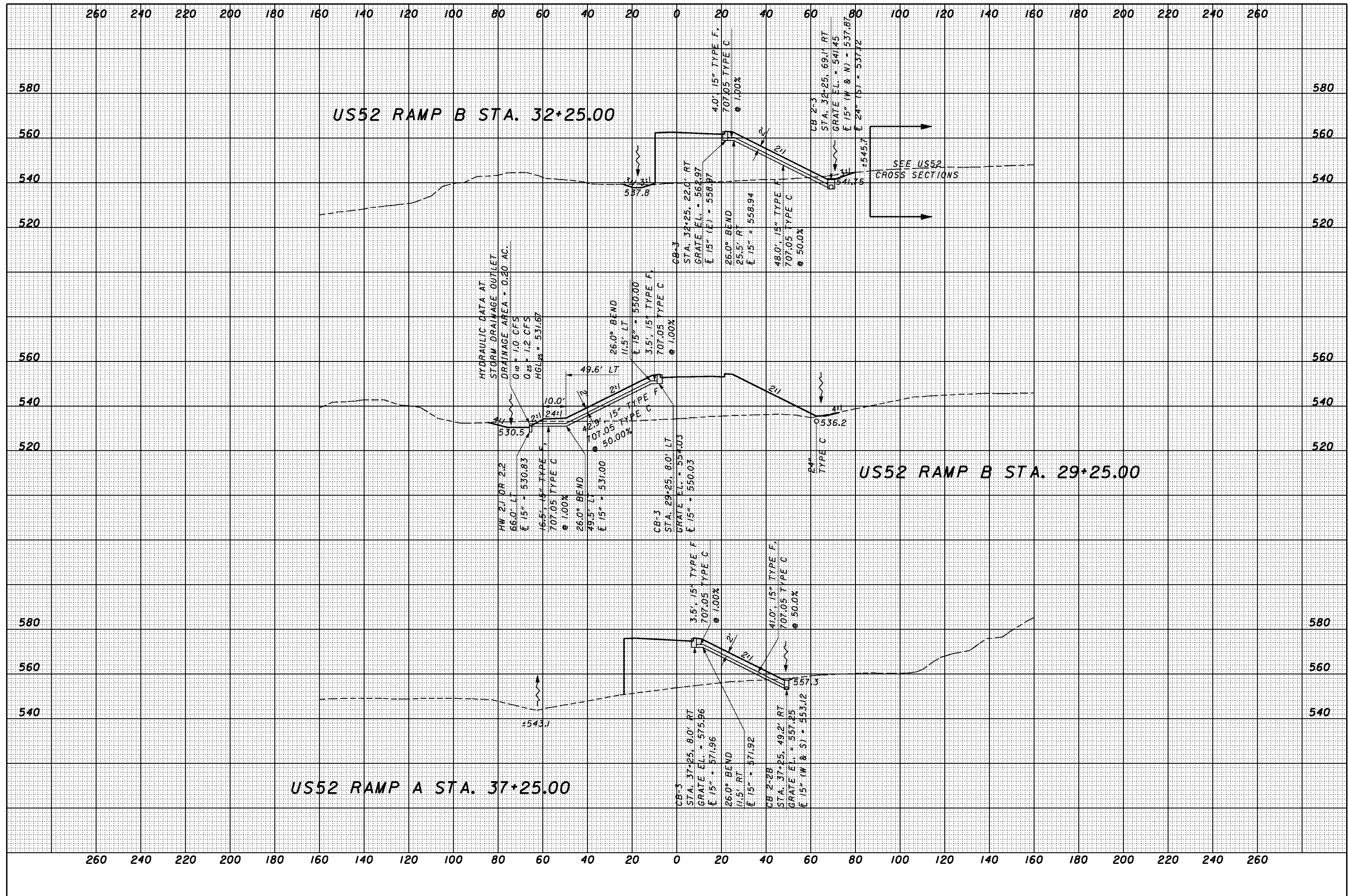
CALCULATED  
DL  
CHECKED  
RW

SR823 DRAINAGE PROFILES

SCI-823-0+00



1/30/2008 G:\C003\0064\Road\PHASE 3\171366.dwg

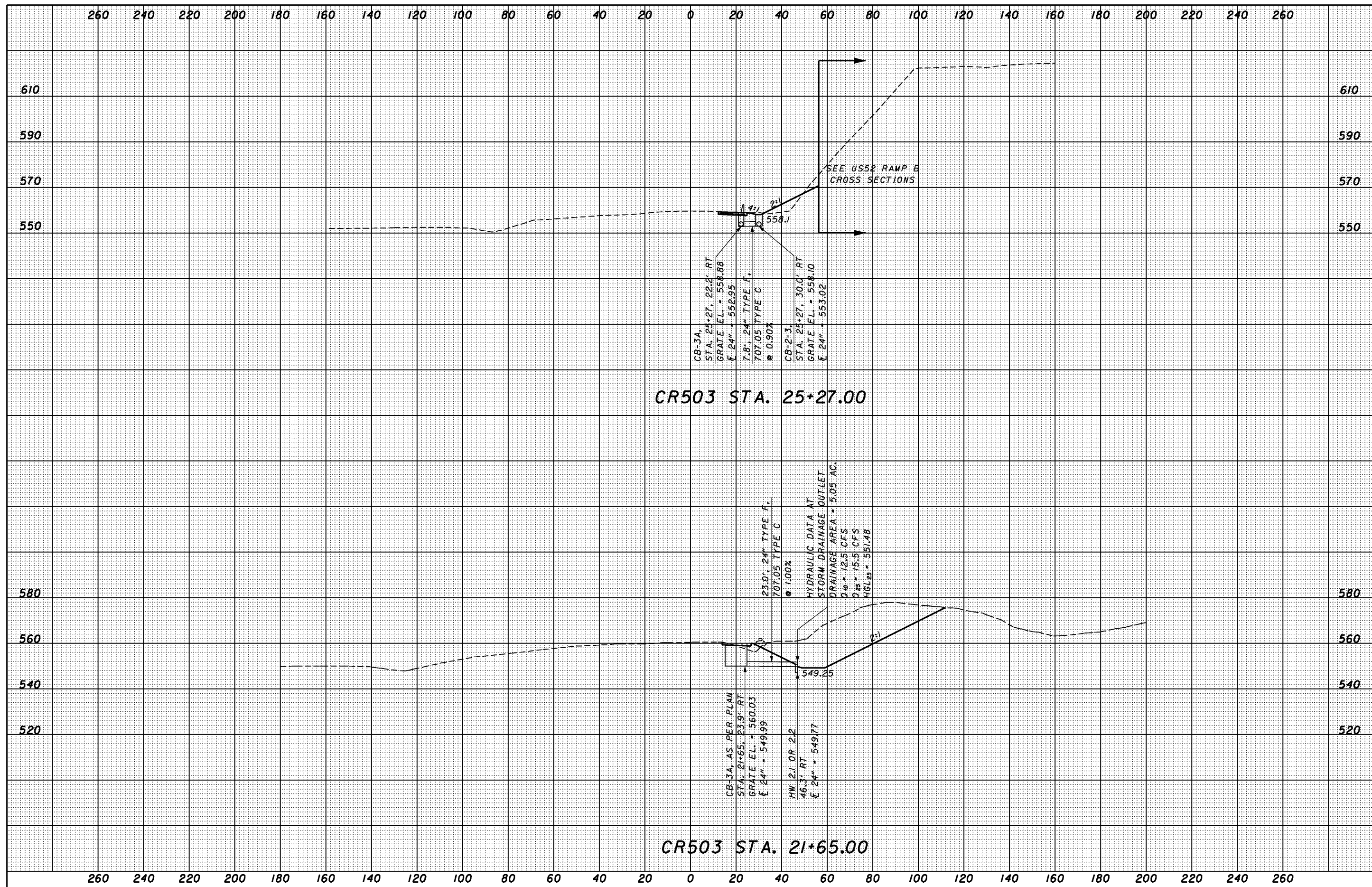


CALCULATED  
DL  
CHECKED  
RW

US52 RAMPS A & B DRAINAGE PROFILES

SCI-823-0.00

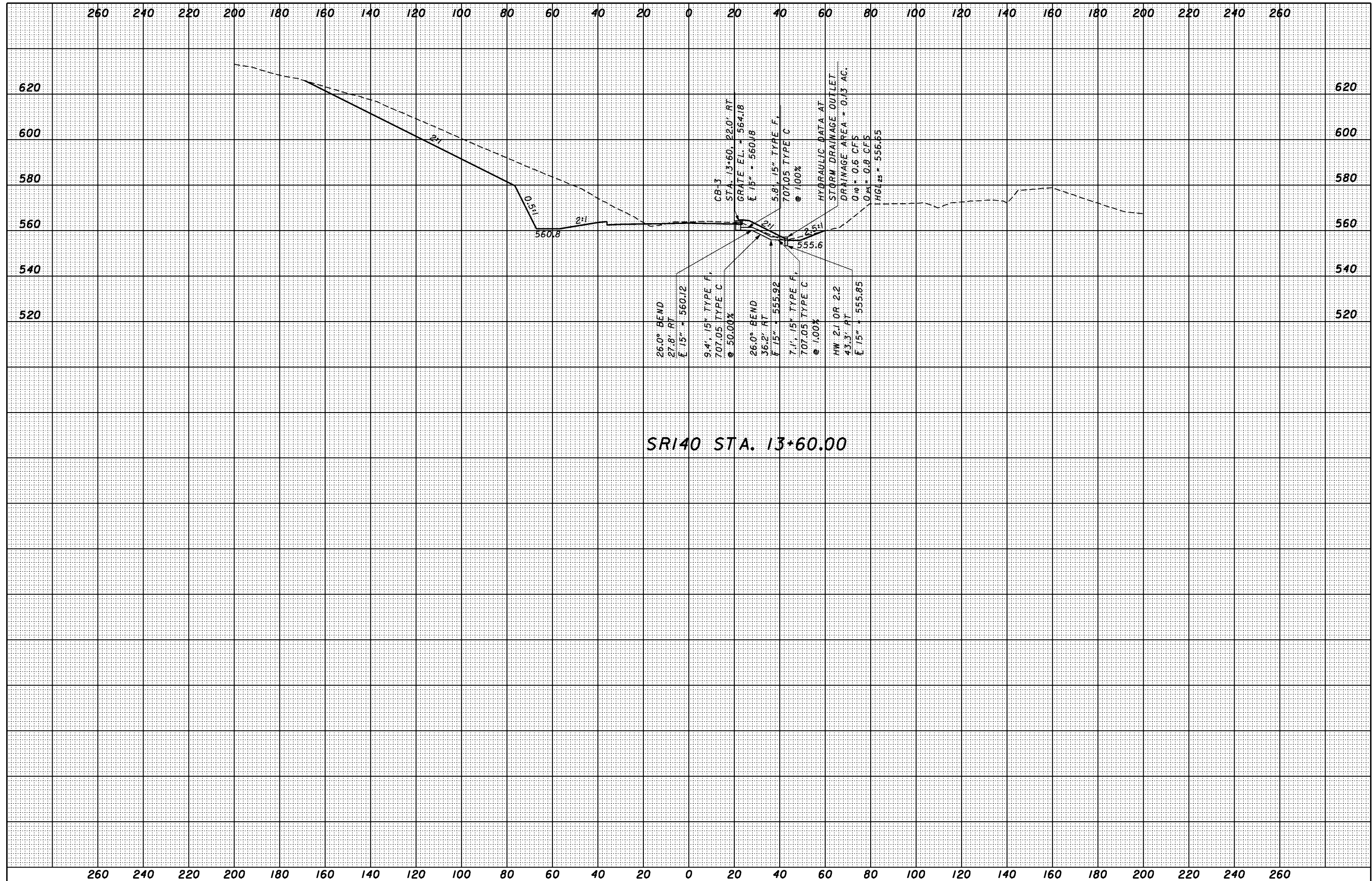
1/30/2008 8:03:16 AM G:\C003\0064\Road\PHASE 3\171366.dwt.sht



CALCULATED  
MDC  
CHECKED  
RW

**CR503 DRAINAGE PROFILES**

**SCI-823-0.00**



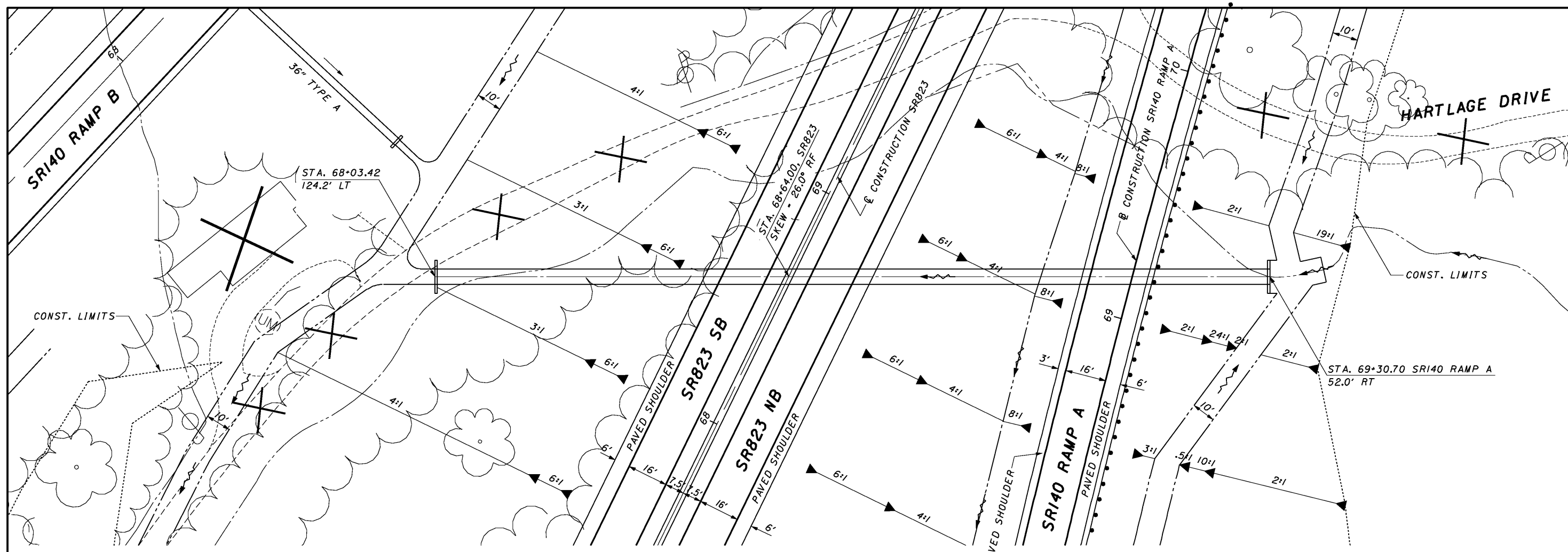
CALCULATED  
DL  
CHECKED  
RW

**SR140 DRAINAGE PROFILE**

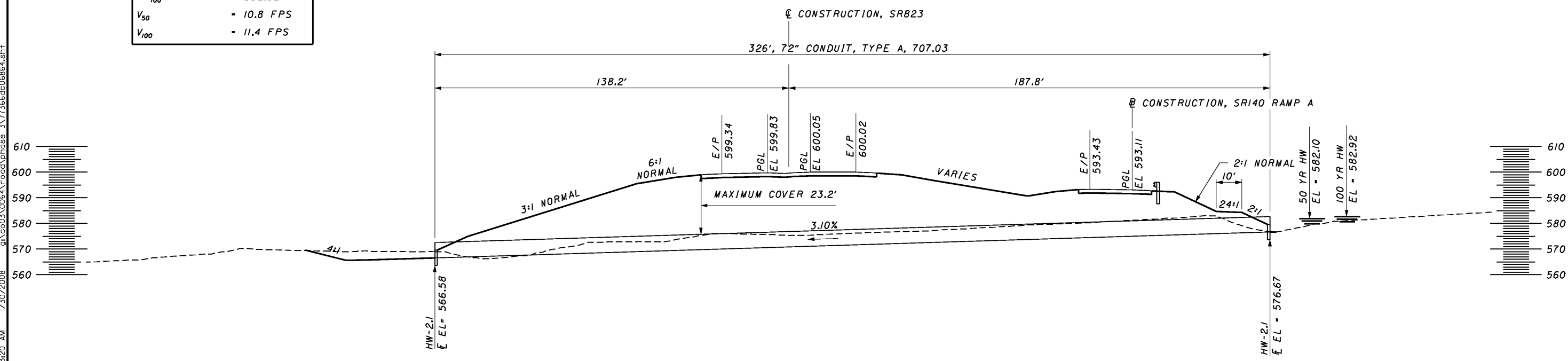
**SCI-823-0.00**



9:03:20 AM 1/30/2008 g:\co03\0064\road\phase\_3\71366dc06864.sht



HYDRAULIC DESIGN DATA	
DRAINAGE AREA - 65.0 AC.	
$Q_{50}$	= 169.3 CFS
$Q_{100}$	= 203.5 CFS
$HW_{50}$	= 582.10
$HW_{100}$	= 582.92
$V_{50}$	= 10.8 FPS
$V_{100}$	= 11.4 FPS



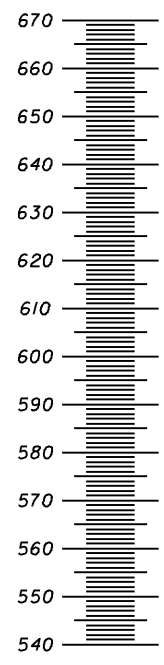
CALCULATED MC  
CREATED RN

0 10 20 40  
HORIZONTAL SCALE IN FEET

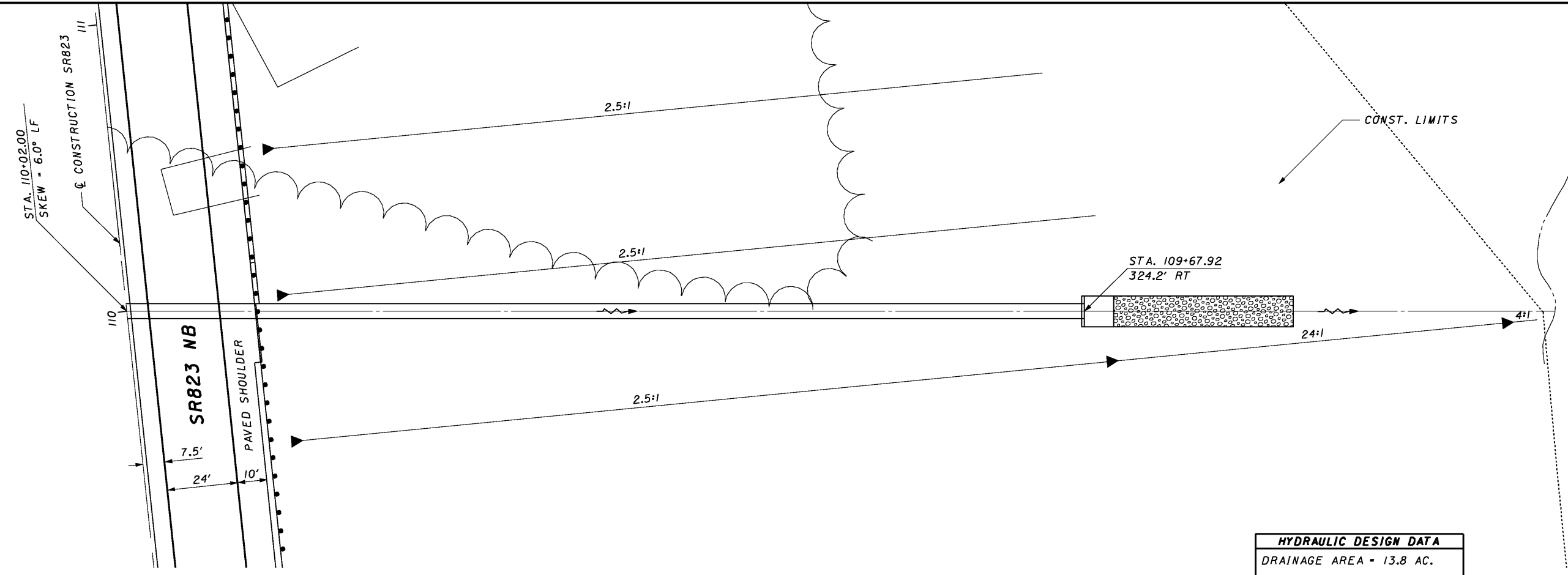
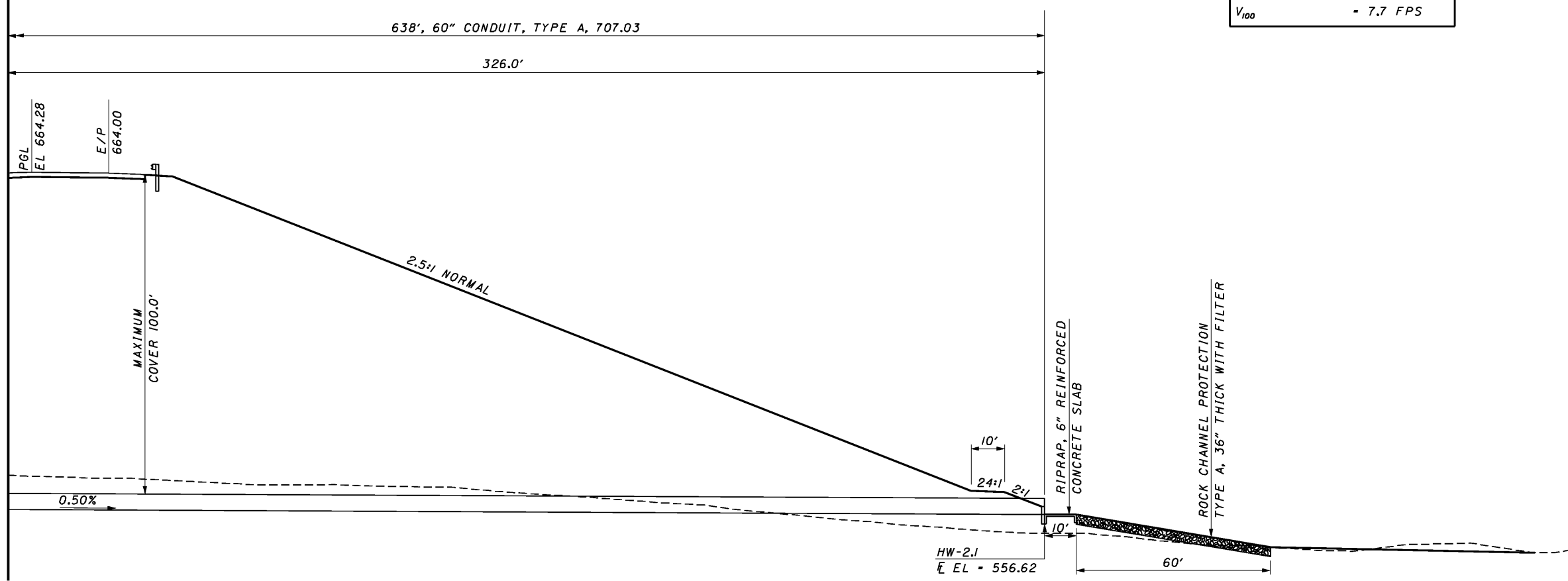
**CULVERT DETAIL**  
**SR823 STA. 68+64.00**

**SCI - 823 - 0.00**

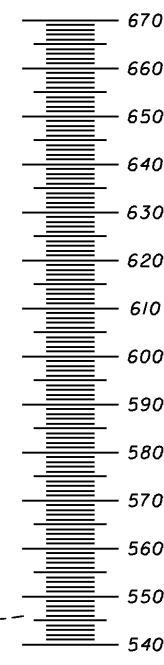




MATCH LINE @ SR823, SEE SHEET X



HYDRAULIC DESIGN DATA	
DRAINAGE AREA	= 13.8 AC.
$Q_{50}$	= 59.5 CFS
$Q_{100}$	= 71.9 CFS
$HW_{50}$	= 563.45
$HW_{100}$	= 563.91
$V_{50}$	= 7.3 FPS
$V_{100}$	= 7.7 FPS



CALCULATED MC  
CHECKED RN

CULVERT DETAIL  
SR823 STA. 110+02.00



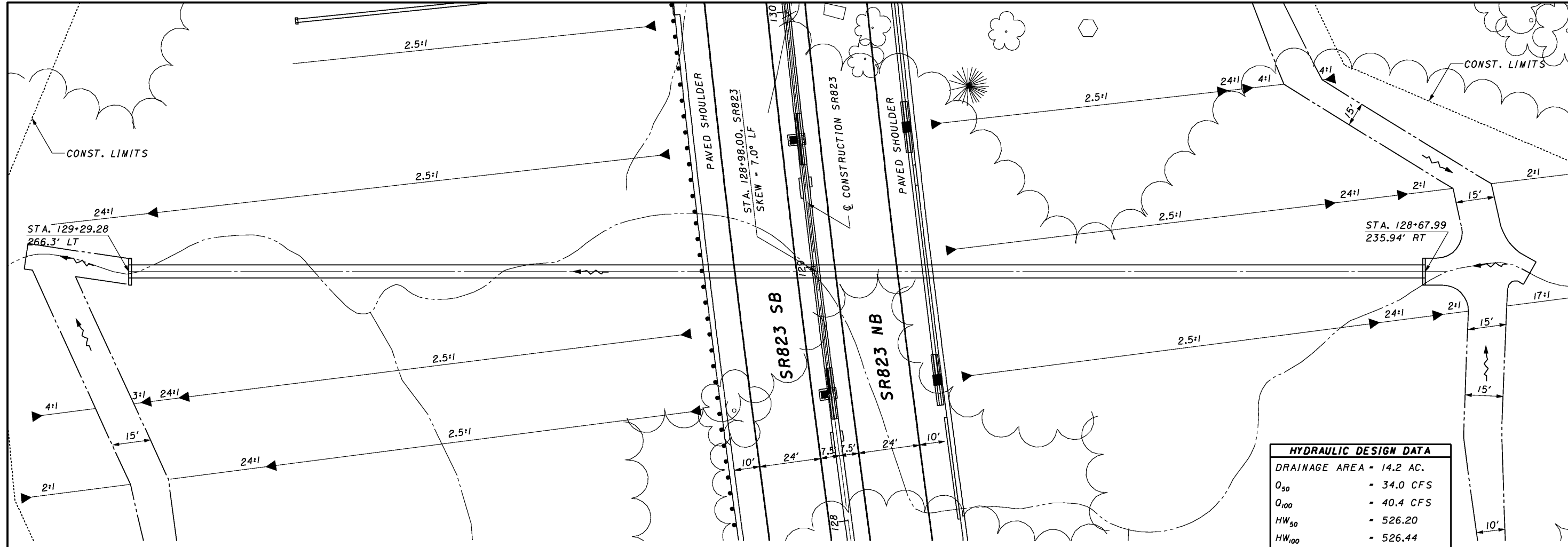


HORIZONTAL SCALE IN FEET  
0 10 20 40

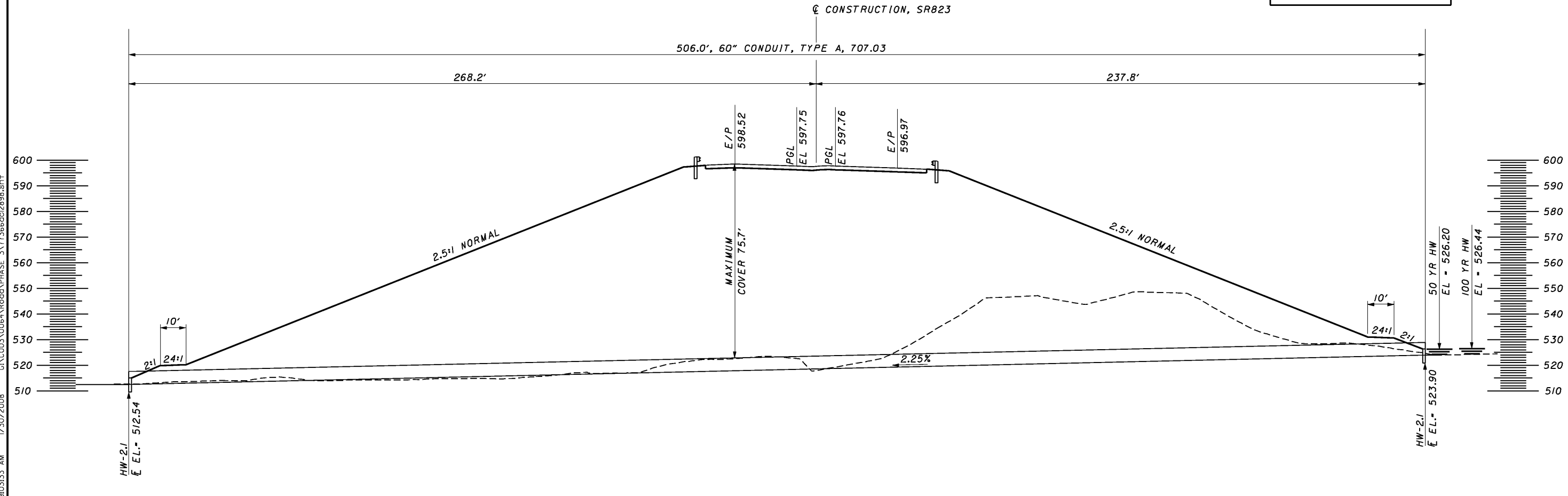
CALCULATED MC  
CHECKED RN

CULVERT DETAIL  
SR823 STA. 128+98.00

SCI-823-0.00



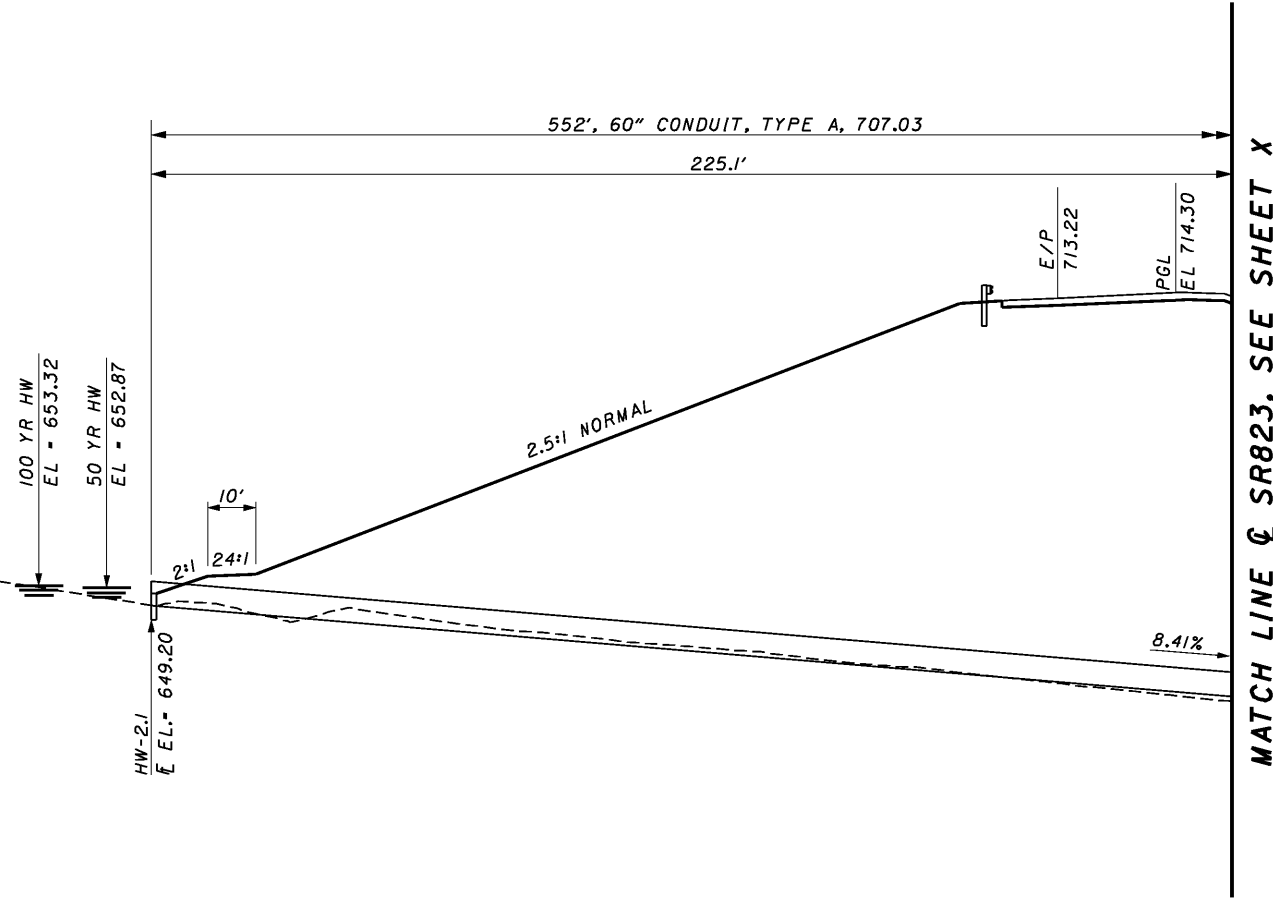
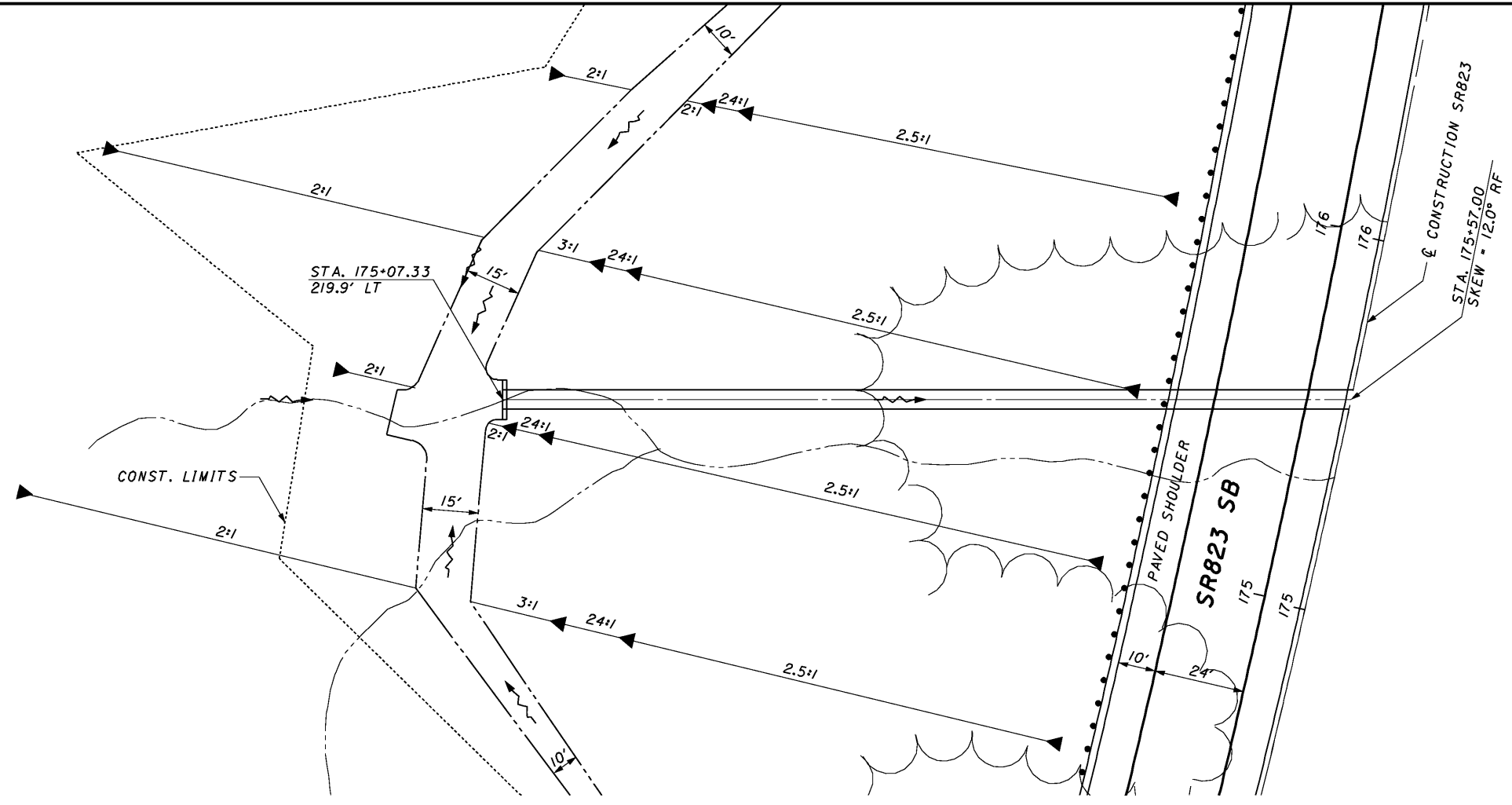
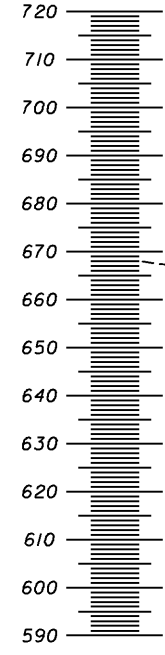
HYDRAULIC DESIGN DATA	
DRAINAGE AREA = 14.2 AC.	
$Q_{50}$	= 34.0 CFS
$Q_{100}$	= 40.4 CFS
$HW_{50}$	= 526.20
$HW_{100}$	= 526.44
$V_{50}$	= 7.5 FPS
$V_{100}$	= 7.8 FPS



9:03:33 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\77366cd2898.sht



HYDRAULIC DESIGN DATA	
DRAINAGE AREA - 19.2 AC.	
$Q_{50}$	= 77.2 CFS
$Q_{100}$	= 93.4 CFS
$HW_{50}$	= 652.87
$HW_{100}$	= 653.32
$V_{50}$	= 15.1 FPS
$V_{100}$	= 15.9 FPS



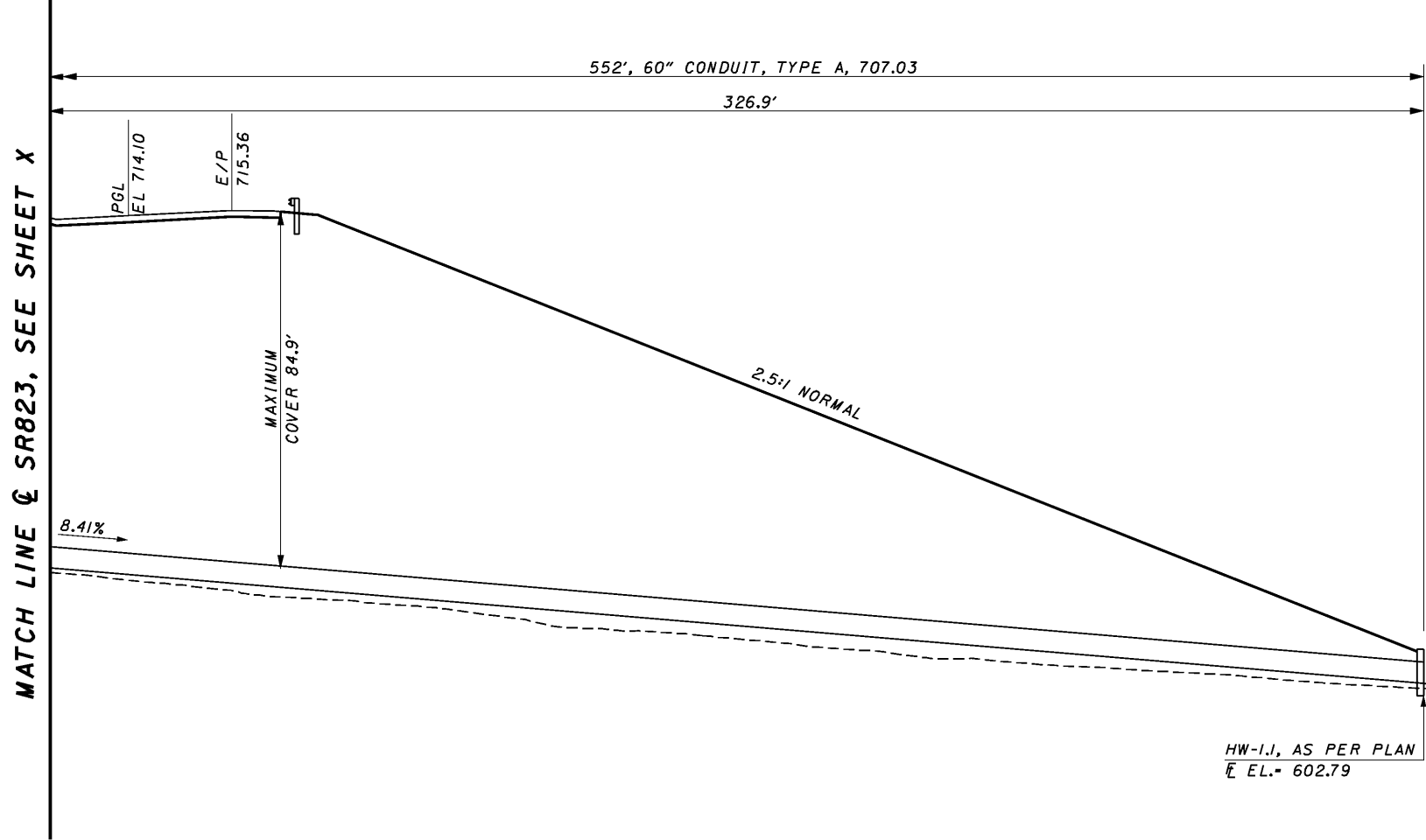
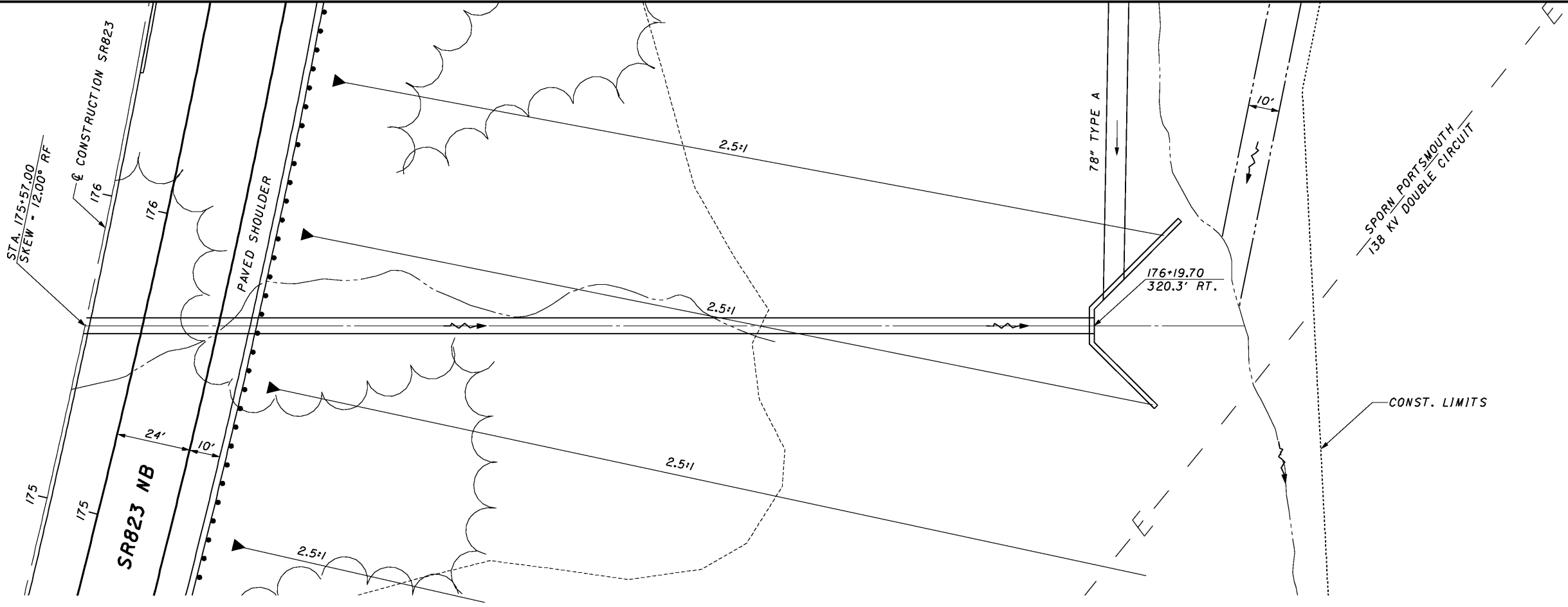
MATCH LINE & SR823, SEE SHEET X



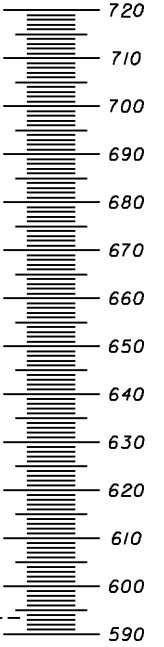
CALCULATED MC  
 CHECKED RN  
**CULVERT DETAIL**  
**SR823 STA. 175+57.00**

**SCI-823-0.00**





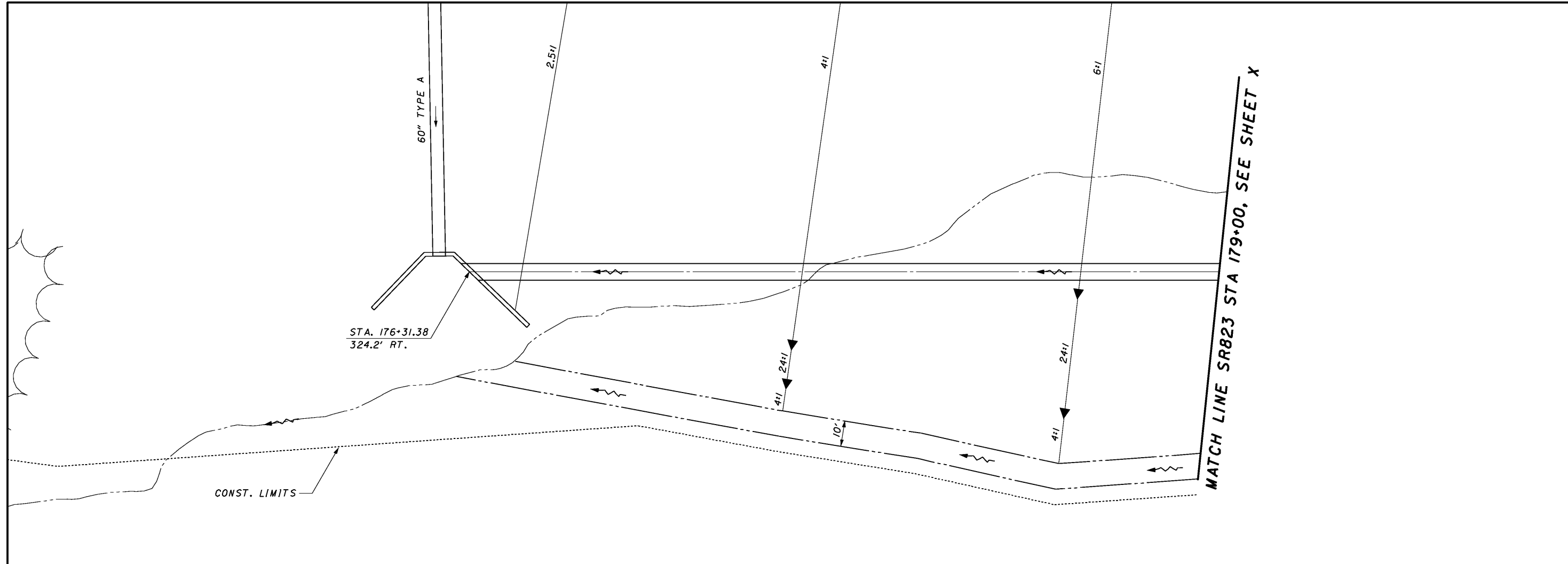
HYDRAULIC DESIGN DATA	
DRAINAGE AREA - 19.2 AC.	
$Q_{50}$	= 77.2 CFS
$Q_{100}$	= 93.4 CFS
$HW_{50}$	= 652.87
$HW_{100}$	= 653.32
$V_{50}$	= 15.1 FPS
$V_{100}$	= 15.9 FPS



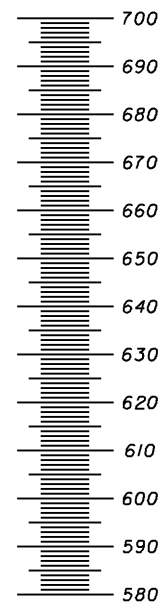
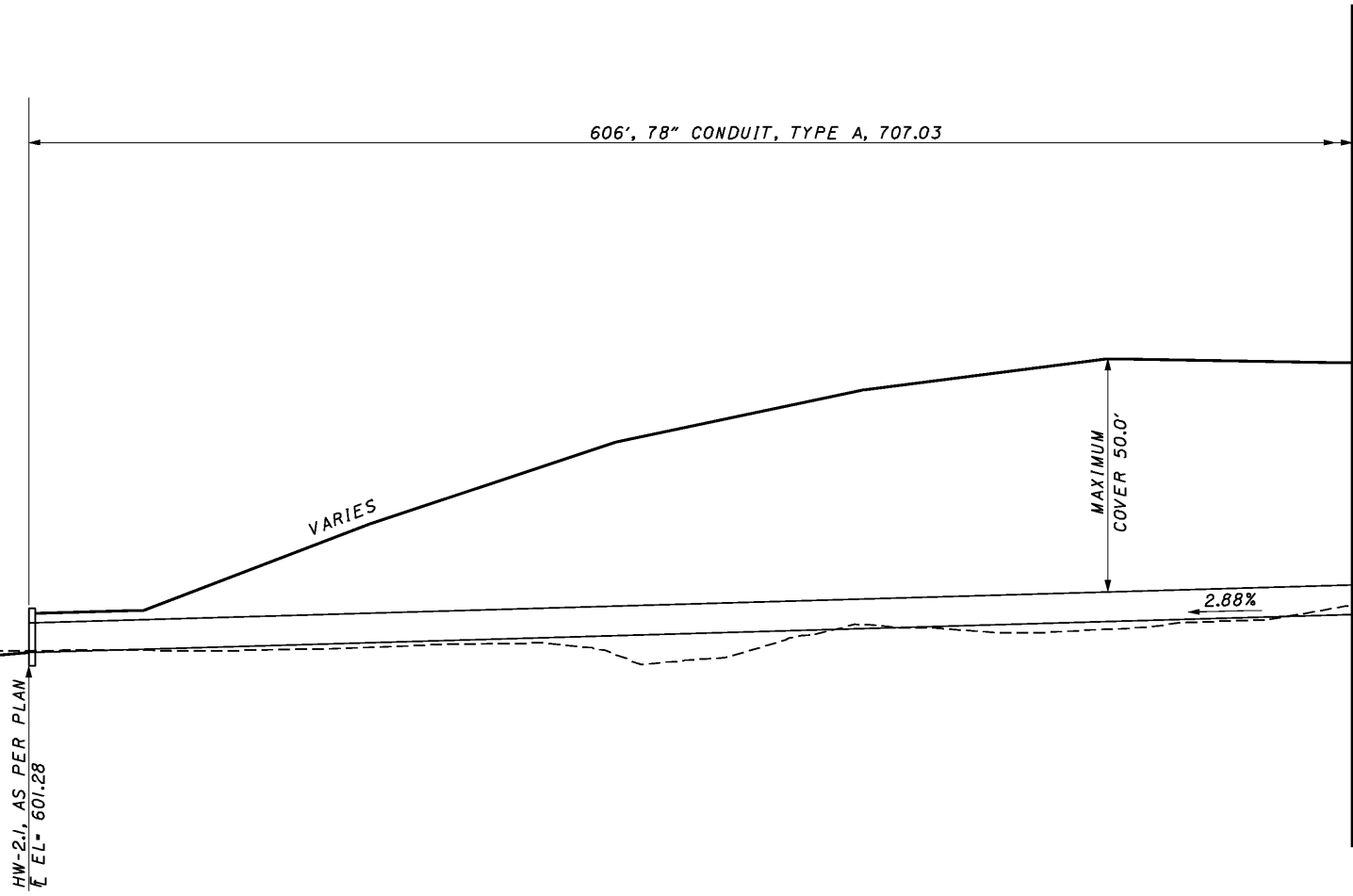
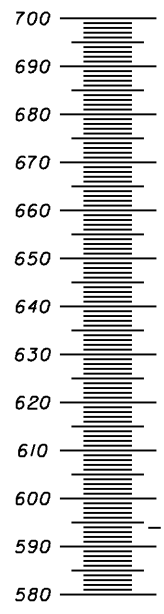
CALCULATED MC  
CHECKED RN

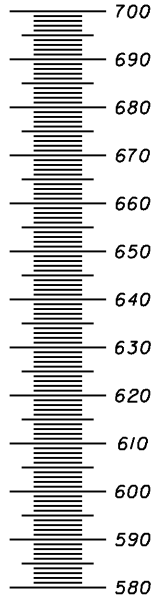
**CULVERT DETAIL**  
**SR823 STA. 175+57.00**

**SCI-823-0.00**

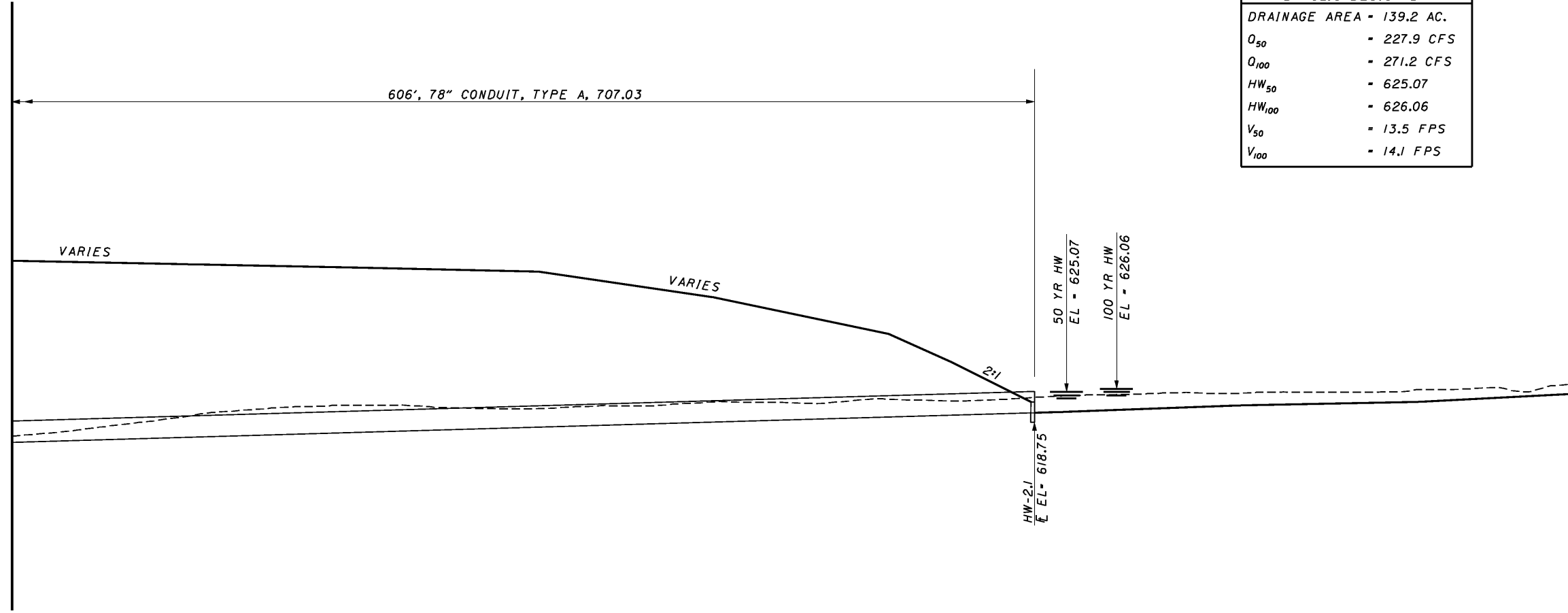


HYDRAULIC DESIGN DATA	
DRAINAGE AREA = 139.2 AC.	
$Q_{50}$	= 227.9 CFS
$Q_{100}$	= 271.2 CFS
$HW_{50}$	= 625.07
$HW_{100}$	= 626.06
$V_{50}$	= 13.5 FPS
$V_{100}$	= 14.1 FPS



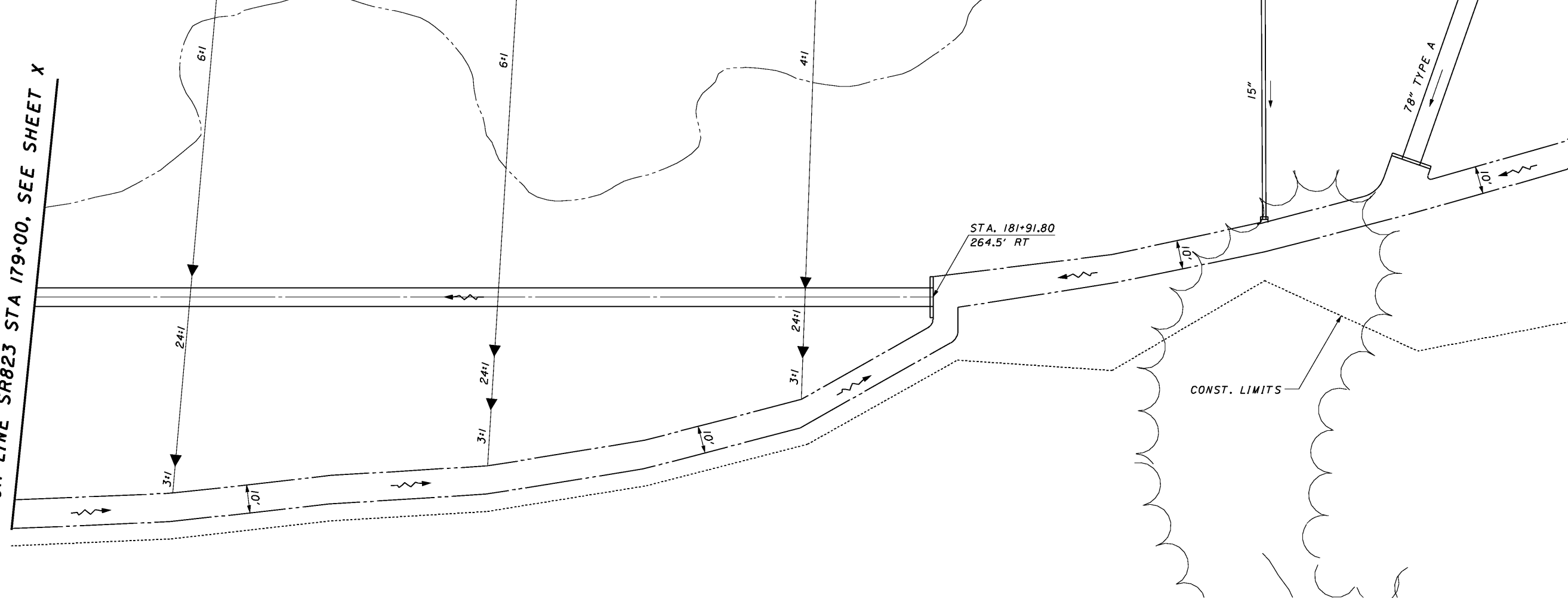


MATCH LINE SR823 STA 179+00, SEE SHEET X



HYDRAULIC DESIGN DATA	
DRAINAGE AREA - 139.2 AC.	
$Q_{50}$	- 227.9 CFS
$Q_{100}$	- 271.2 CFS
$HW_{50}$	- 625.07
$HW_{100}$	- 626.06
$V_{50}$	- 13.5 FPS
$V_{100}$	- 14.1 FPS

MATCH LINE SR823 STA 179+00, SEE SHEET X



CALCULATED MC  
CHECKED RN

**CULVERT DETAIL**  
**SR823 STA. 176+31.38 TO 181+91.80**

**SCI-823-0.00**

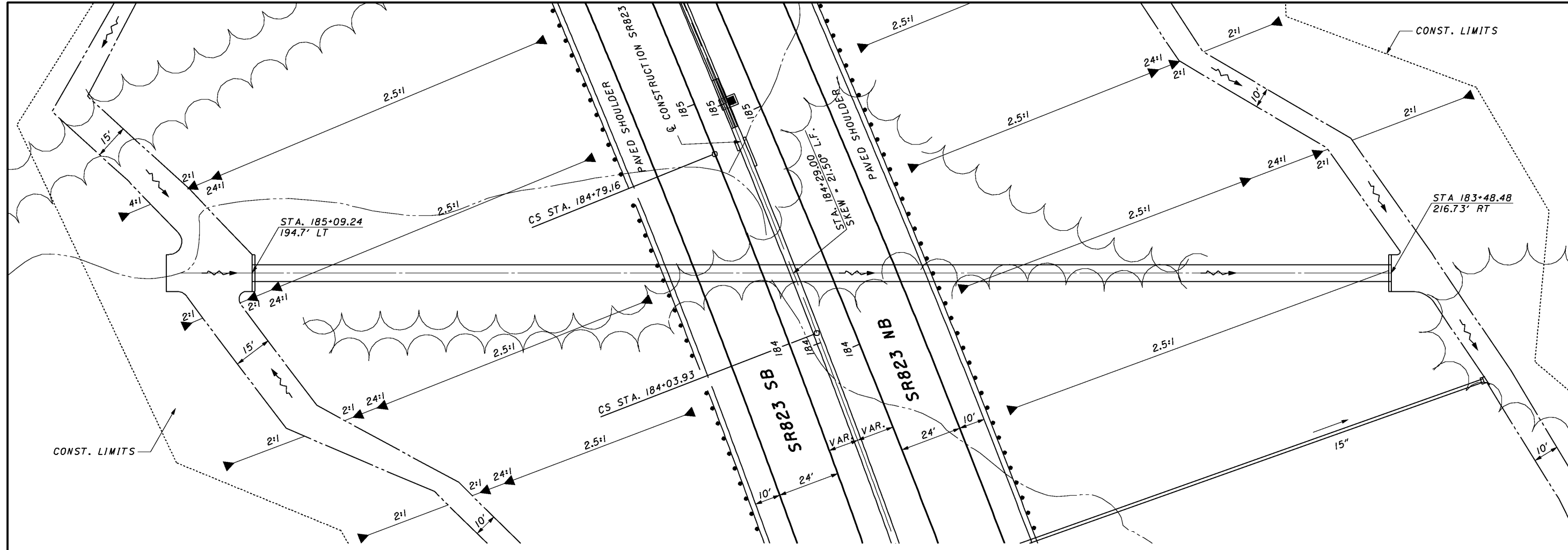




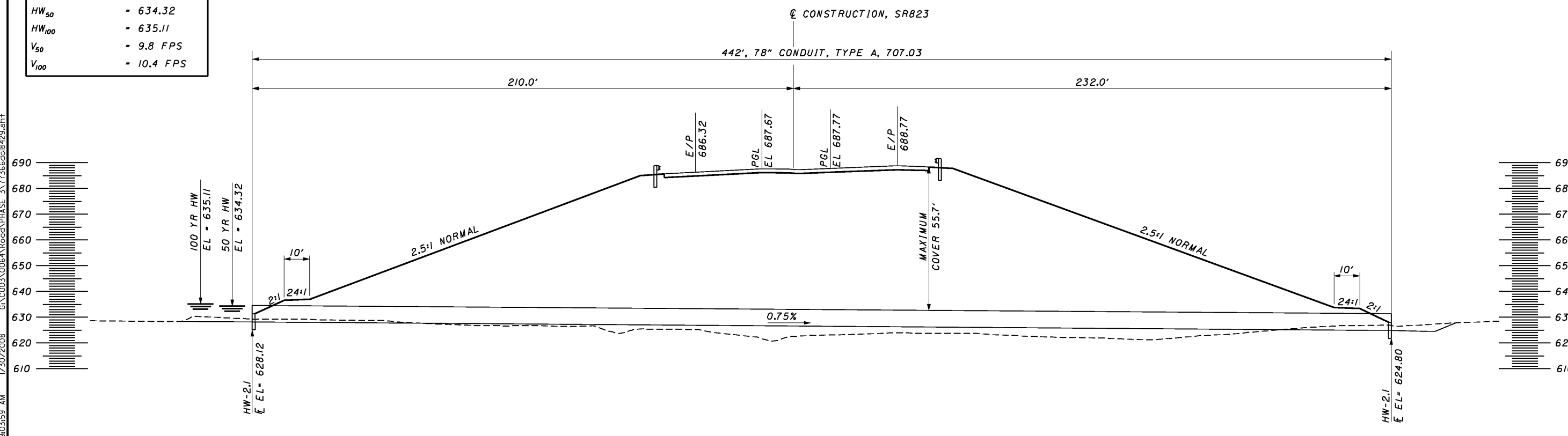
CALCULATED MC  
CHECKED RN

**CULVERT DETAIL**  
**SR823 STA. 184+29.00**

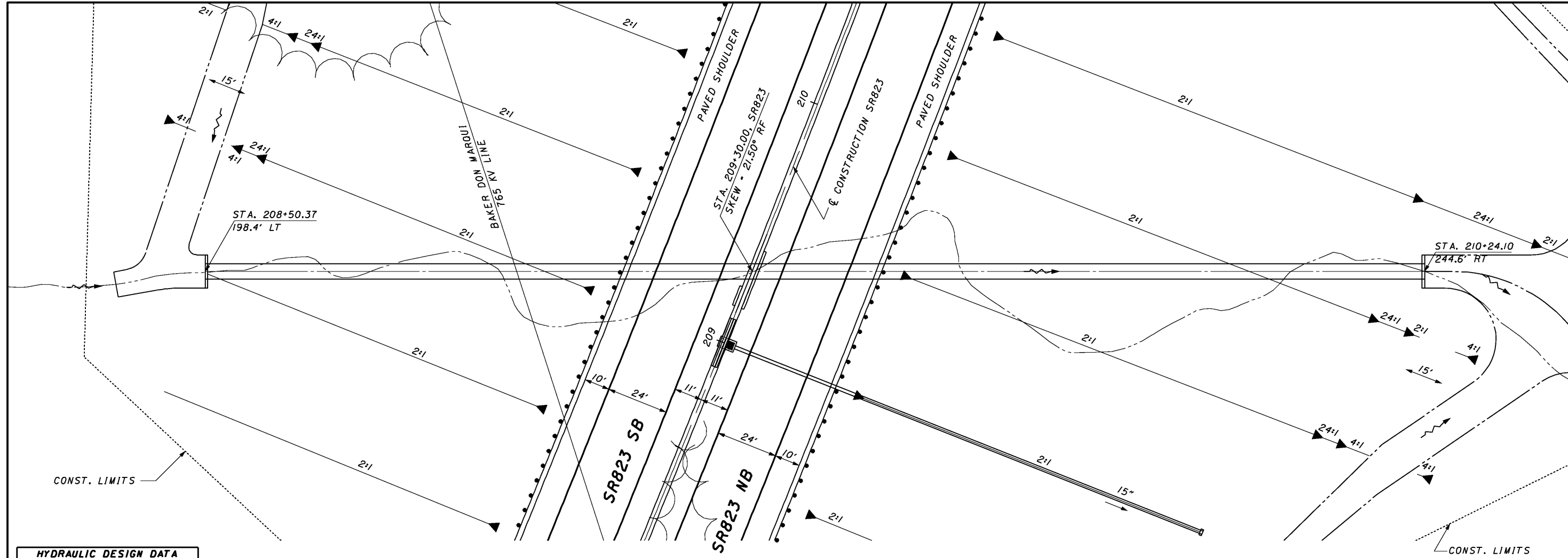
**SCI-823-0.00**



HYDRAULIC DESIGN DATA	
DRAINAGE AREA - 98.5 AC.	
$Q_{50}$	- 187.1 CFS
$Q_{100}$	- 223.3 CFS
$HW_{50}$	- 634.32
$HW_{100}$	- 635.11
$V_{50}$	- 9.8 FPS
$V_{100}$	- 10.4 FPS

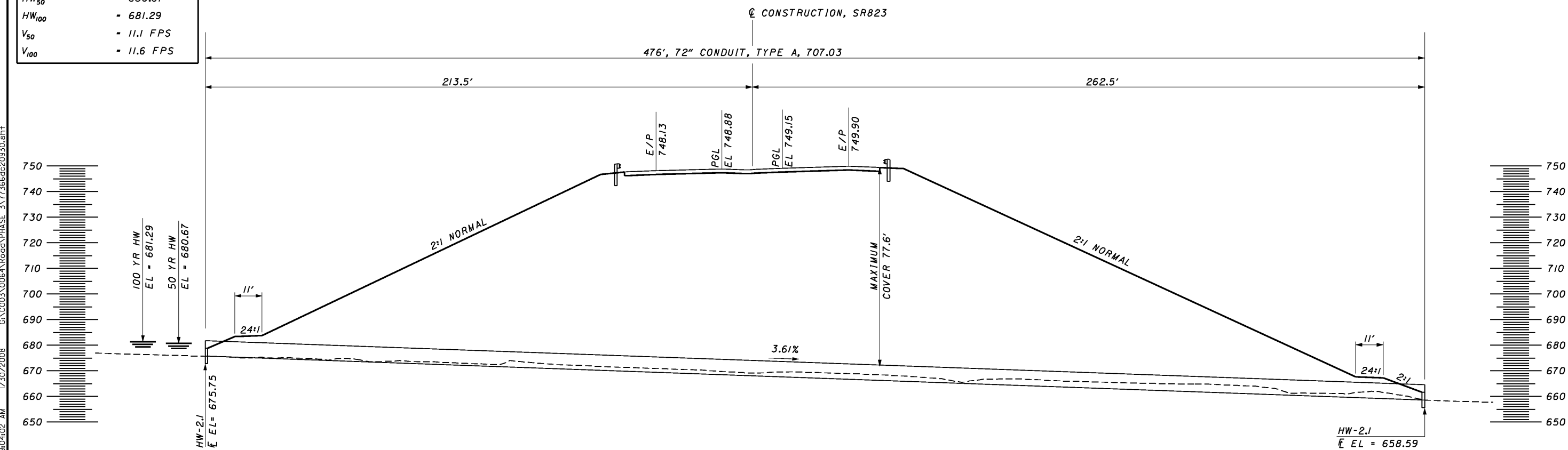


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**HYDRAULIC DESIGN DATA**

DRAINAGE AREA	= 73.9 AC.
$Q_{50}$	= 146.2 CFS
$Q_{100}$	= 174.3 CFS
$HW_{50}$	= 680.67
$HW_{100}$	= 681.29
$V_{50}$	= 11.1 FPS
$V_{100}$	= 11.6 FPS

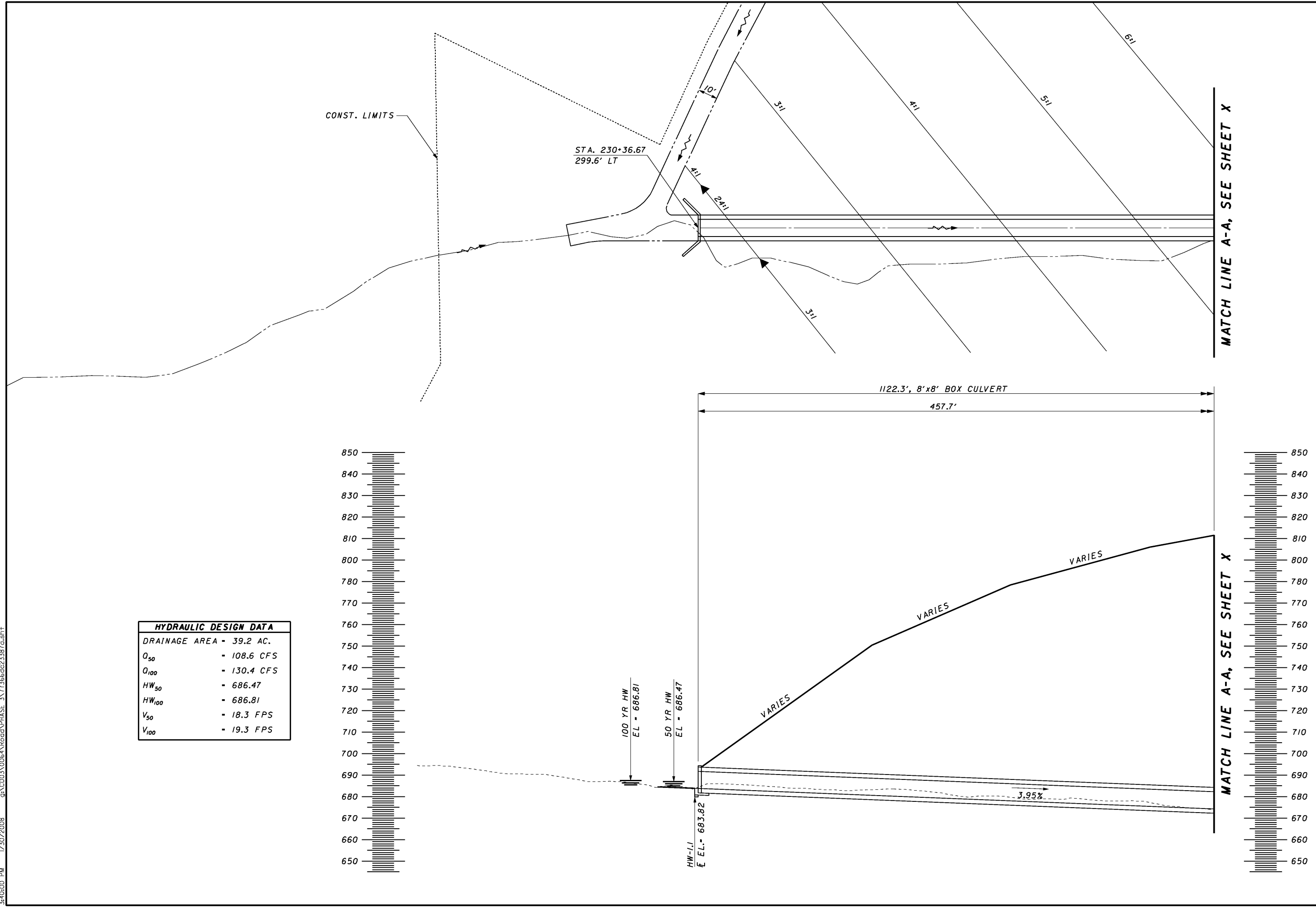


**CULVERT DETAIL**  
**SR823 STA. 209+30.00**

**SCI-823-0.00**

9/04/02 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366dc20930.sht

3:40:00 PM 1/30/2008 g:\C003\0064\Road\PHASE 3\T1366dca23387a.sht



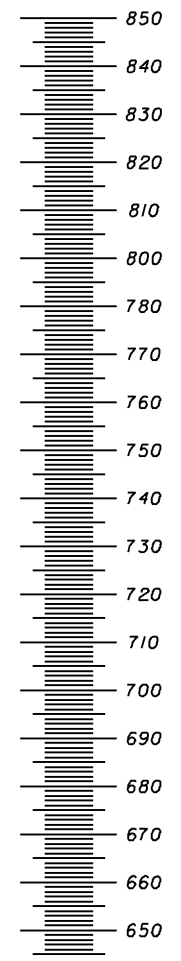
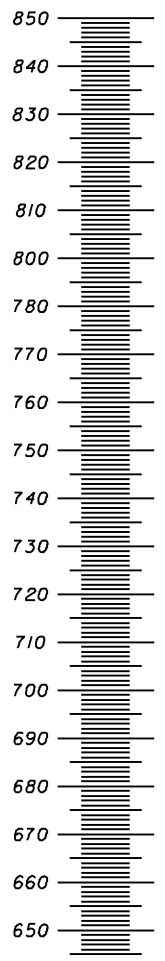
CONST. LIMITS

STA. 230+36.67  
299.6' LT

1122.3', 8'x8' BOX CULVERT

457.7'

HYDRAULIC DESIGN DATA	
DRAINAGE AREA - 39.2 AC.	
$Q_{50}$	- 108.6 CFS
$Q_{100}$	- 130.4 CFS
$HW_{50}$	- 686.47
$HW_{100}$	- 686.81
$V_{50}$	- 18.3 FPS
$V_{100}$	- 19.3 FPS



100 YR HW  
EL = 686.81

50 YR HW  
EL = 686.47

HW-1.1  
EL = 683.82

3.95%

MATCH LINE A-A, SEE SHEET X

MATCH LINE A-A, SEE SHEET X

CALCULATED MC  
CHECKED RN

HORIZONTAL SCALE IN FEET

**CULVERT DETAIL**  
**SR823 STA. 233+87.39**

**SCI-823-0.00**

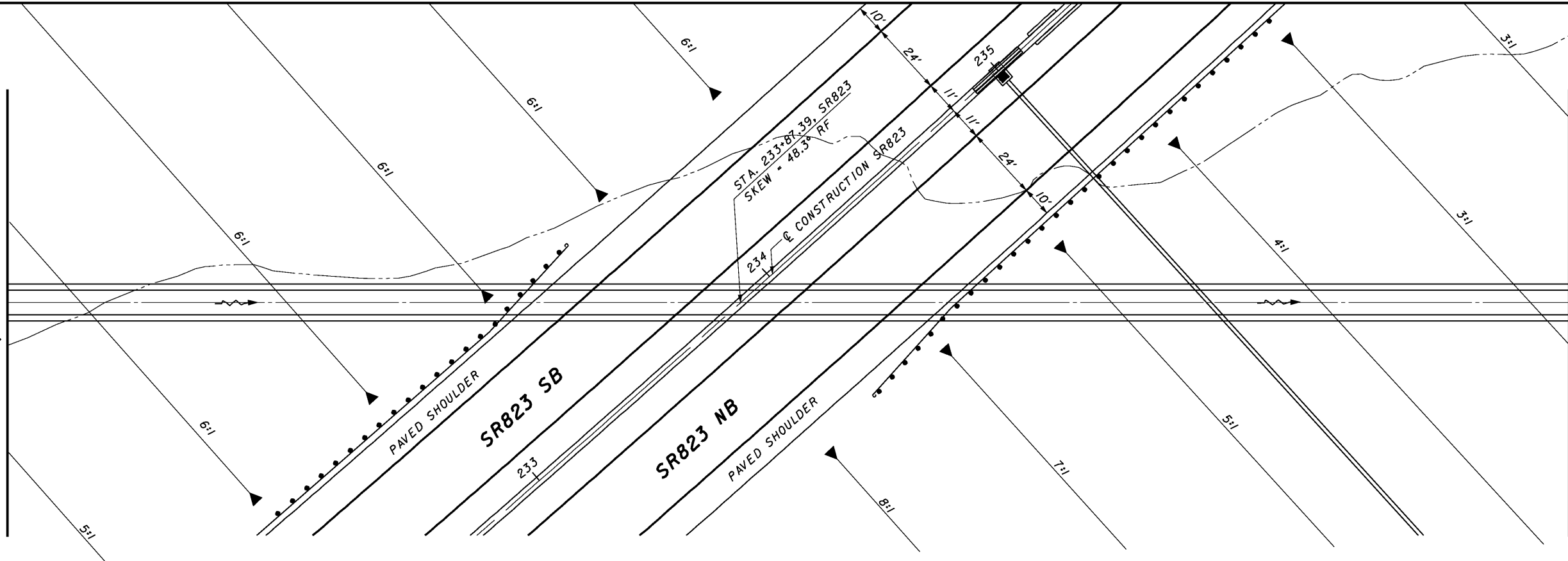
735



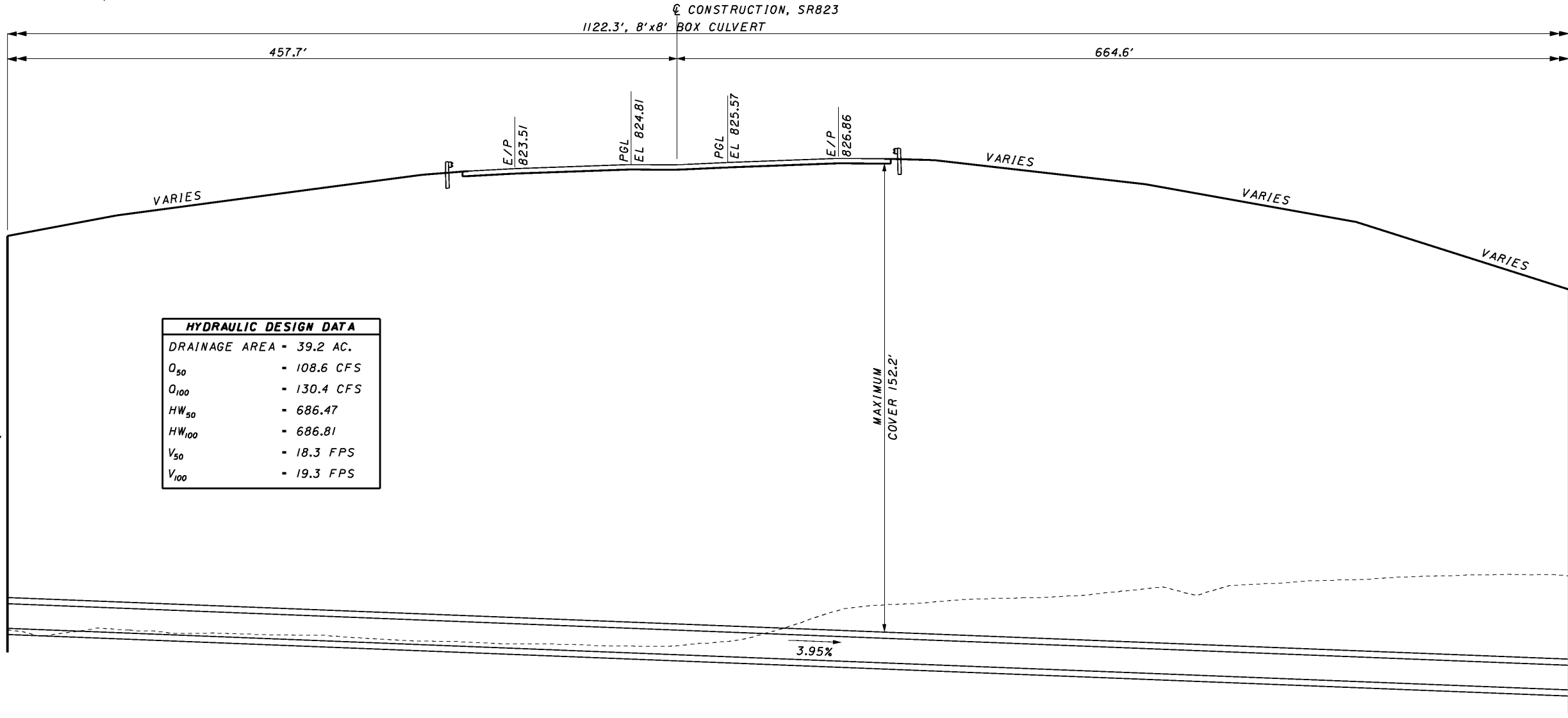
3:40:02 PM 1/30/2008 g:\co03\0064\road\phase\_3\71366dc23387b.sht

MATCH LINE A-A, SEE SHEET X

MATCH LINE A-A, SEE SHEET X



MATCH LINE B-B, SEE SHEET X



MATCH LINE B-B, SEE SHEET X

CALCULATED MC  
CHECKED RN

HORIZONTAL SCALE IN FEET

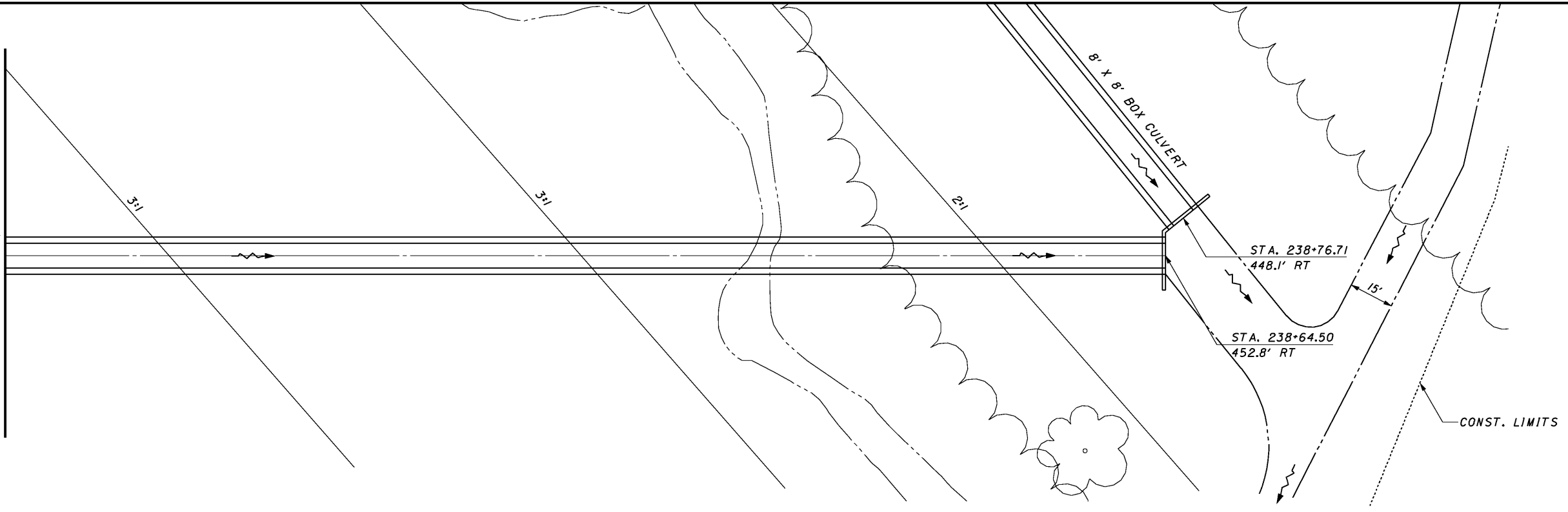
**CULVERT DETAIL**  
**SR823 STA. 233+87.39**

**SCI-823-0.00**

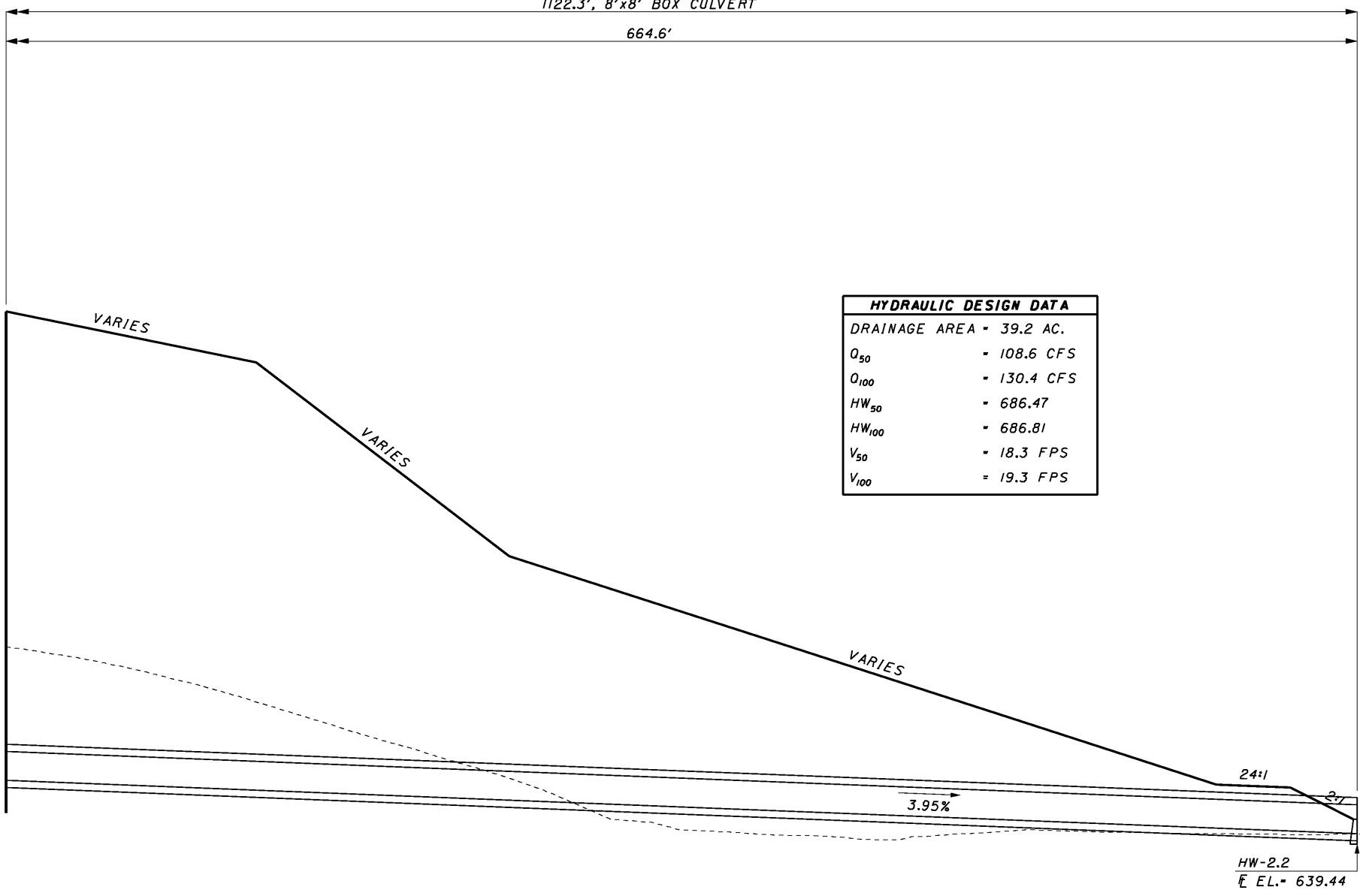
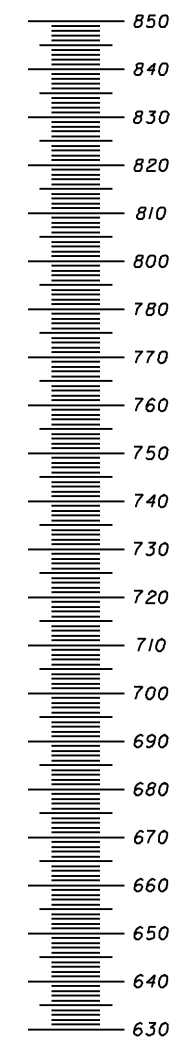
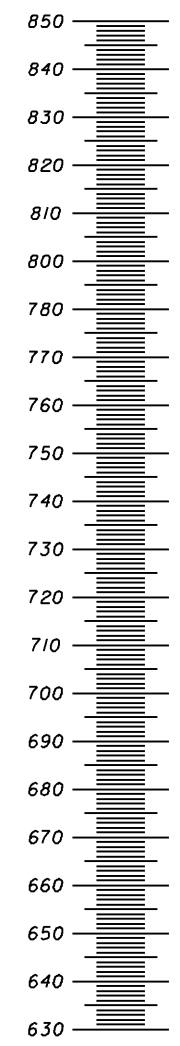
3:40:05 PM 1/30/2008 g:\co03\0064\road\phase\_3\77366dc23387c.sht

MATCH LINE B-B, SEE SHEET X

MATCH LINE B-B, SEE SHEET X



1122.3', 8'x8' BOX CULVERT  
664.6'



HYDRAULIC DESIGN DATA	
DRAINAGE AREA = 39.2 AC.	
$Q_{50}$	= 108.6 CFS
$Q_{100}$	= 130.4 CFS
$HW_{50}$	= 686.47
$HW_{100}$	= 686.81
$V_{50}$	= 18.3 FPS
$V_{100}$	= 19.3 FPS

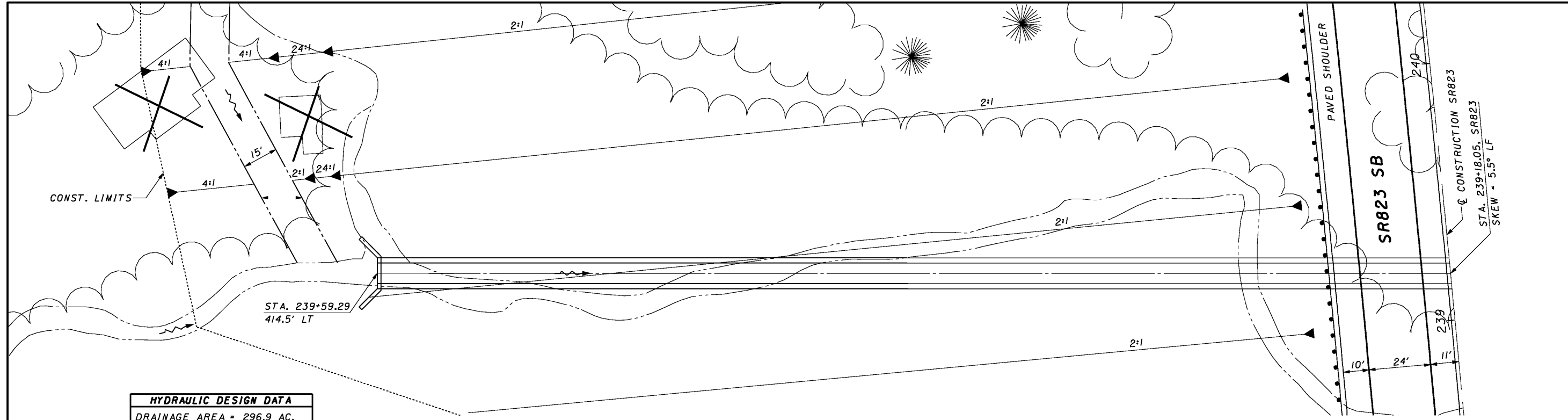
CALCULATED MC  
CREATED RN

0 20 40  
HORIZONTAL SCALE IN FEET

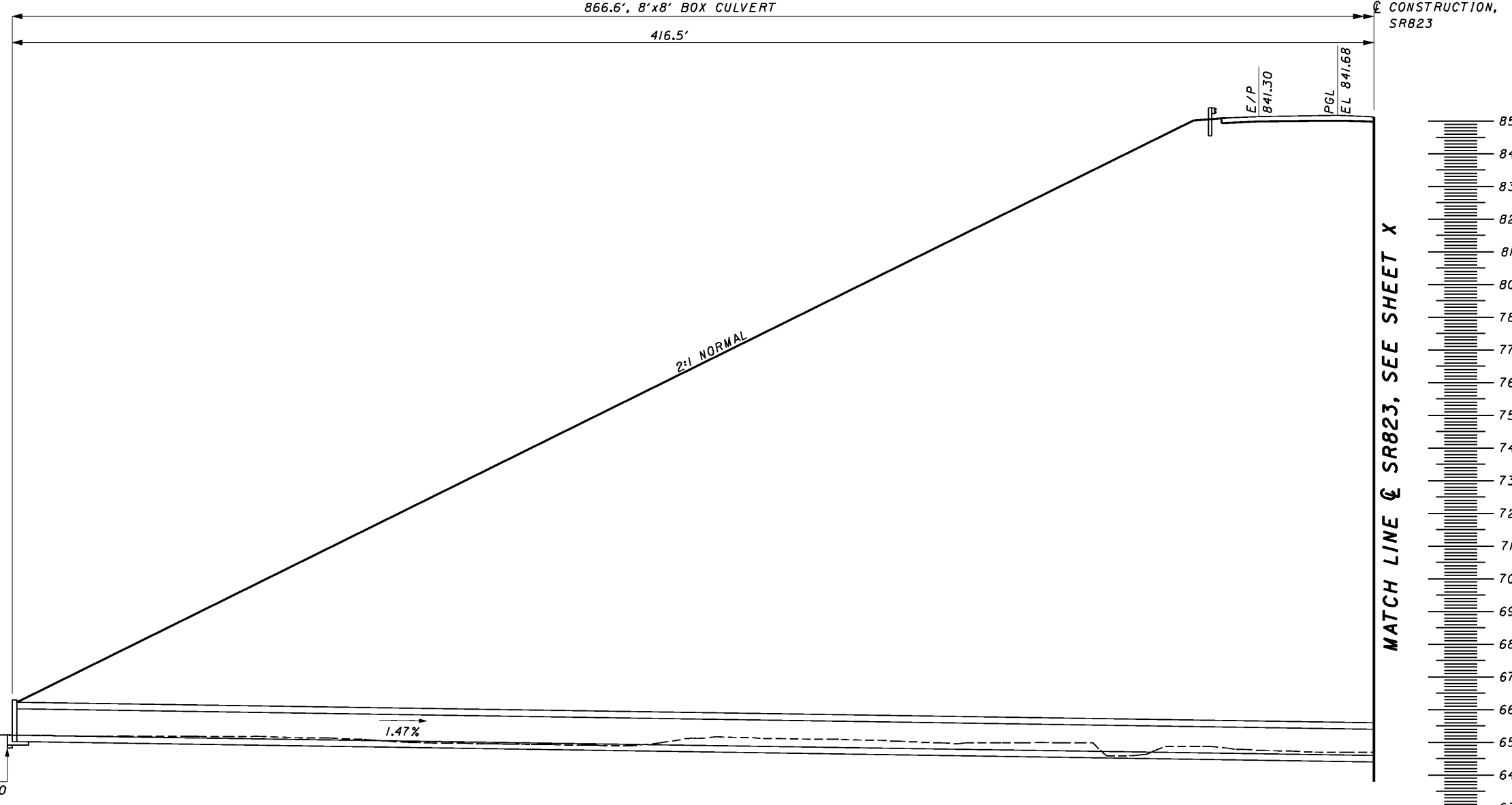
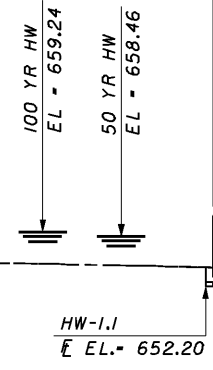
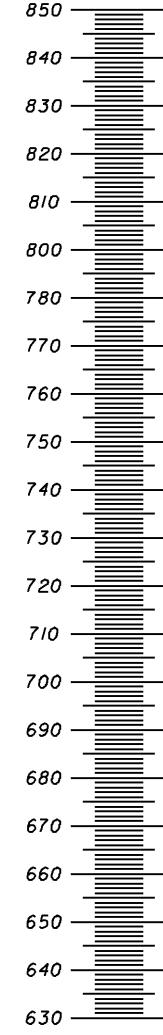
CULVERT DETAIL  
SR823 STA. 233+87.39

SCI-823-0.00

9:04:14 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366dc2398a.sht



HYDRAULIC DESIGN DATA	
DRAINAGE AREA = 296.9 AC.	
$Q_{50}$	= 375.0 CFS
$Q_{100}$	= 444.8 CFS
$HW_{50}$	= 658.46
$HW_{100}$	= 659.24
$V_{50}$	= 19.6 FPS
$V_{100}$	= 20.5 FPS



MATCH LINE @ SR823, SEE SHEET X



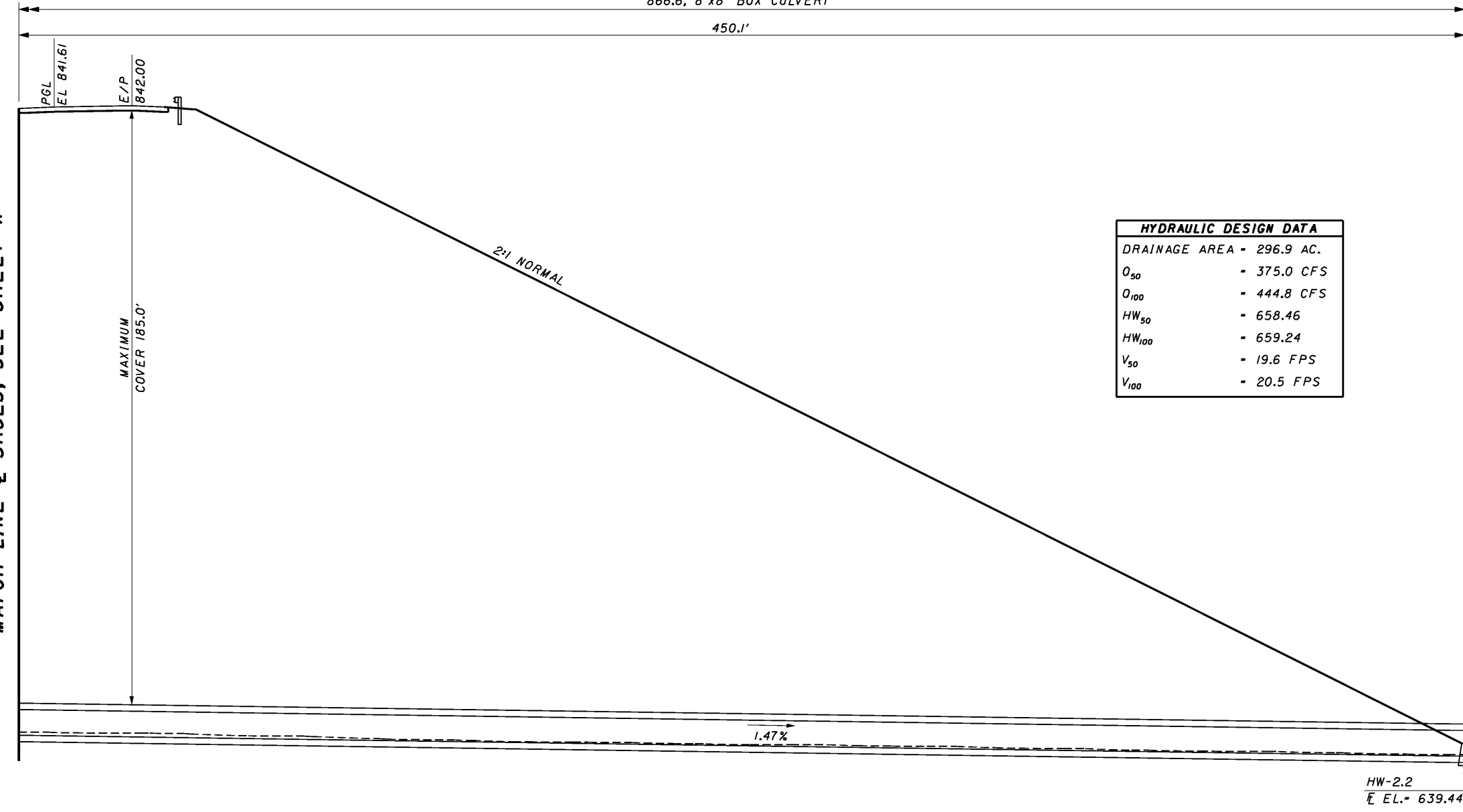
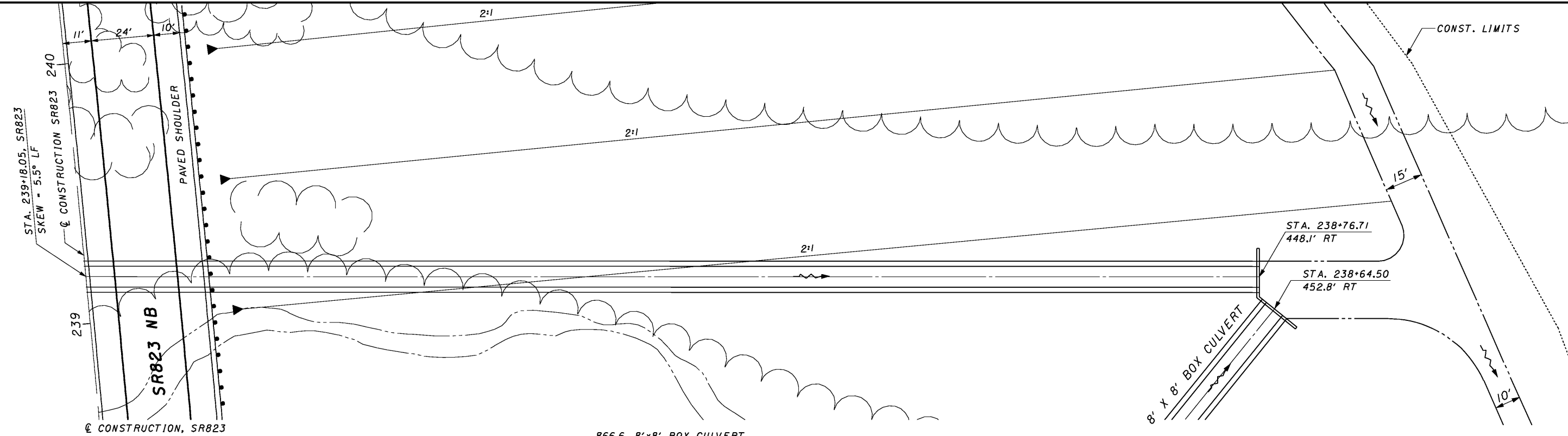
CALCULATED MC  
 CHECKED RN

**CULVERT DETAIL**  
**SR823 STA. 239+18.05**

**SCI-823-0.00**



MATCH LINE @ SR823, SEE SHEET X



HYDRAULIC DESIGN DATA	
DRAINAGE AREA - 296.9 AC.	
$Q_{50}$	- 375.0 CFS
$Q_{100}$	- 444.8 CFS
$HW_{50}$	- 658.46
$HW_{100}$	- 659.24
$V_{50}$	- 19.6 FPS
$V_{100}$	- 20.5 FPS

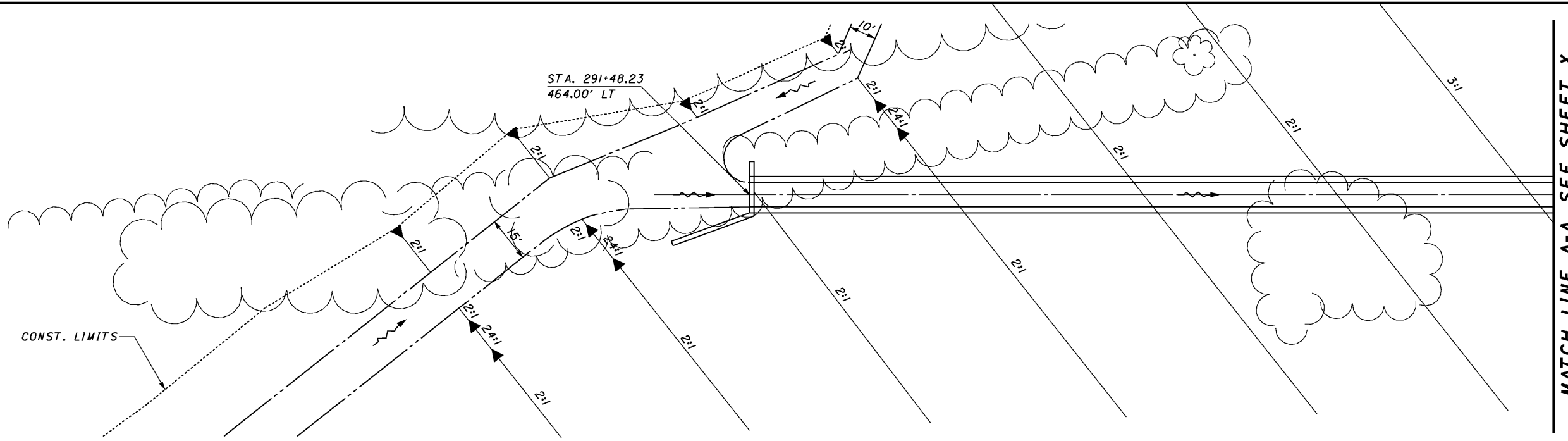
CALCULATED MC  
CHECKED RN

HORIZONTAL SCALE IN FEET

CULVERT DETAIL  
SR823 STA. 239+18.05

SCI-823-0.00

4:58:52 PM 1/30/2008 g:\co03\0064\road\phase\_3\77366dc29733a.sht

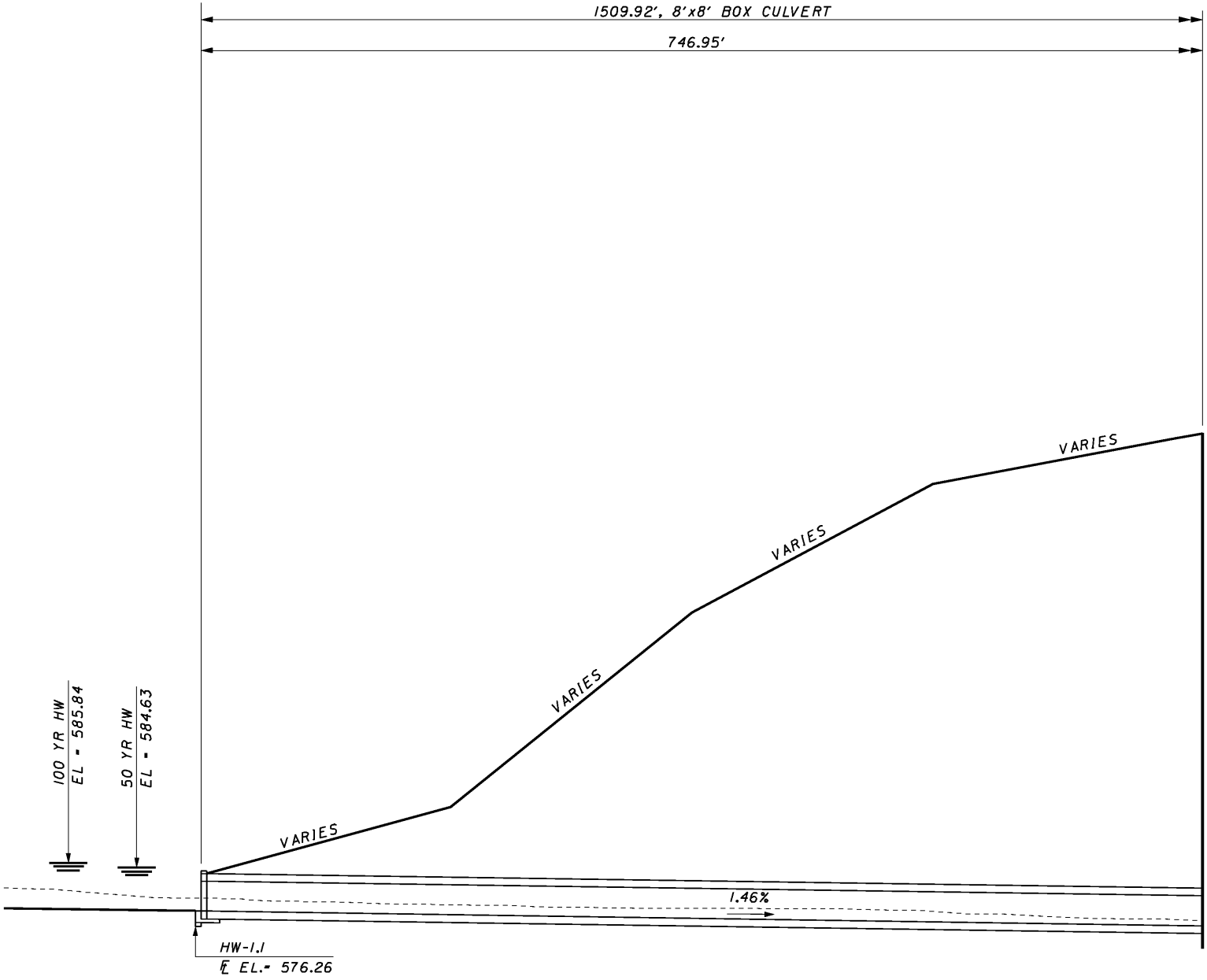
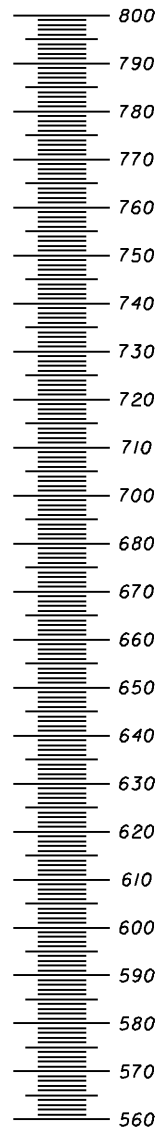
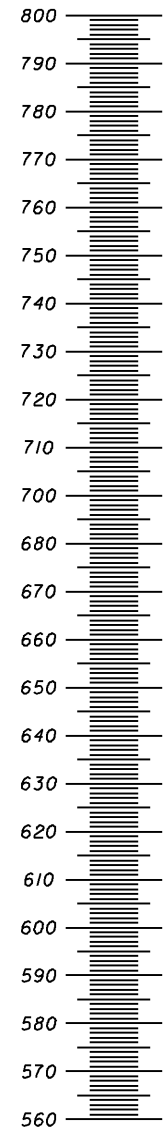


CONST. LIMITS

STA. 291+48.23  
464.00' LT

MATCH LINE A-A, SEE SHEET X

HYDRAULIC DESIGN DATA	
DRAINAGE AREA	- 603.0 AC.
$Q_{50}$	- 564.3 CFS
$Q_{100}$	- 666.2 CFS
$HW_{50}$	- 584.63
$HW_{100}$	- 585.84
$V_{50}$	- 21.9 FPS
$V_{100}$	- 22.9 FPS



100 YR HW  
EL = 585.84

50 YR HW  
EL = 584.63

HW-1.1  
E. EL. = 576.26

1.46%

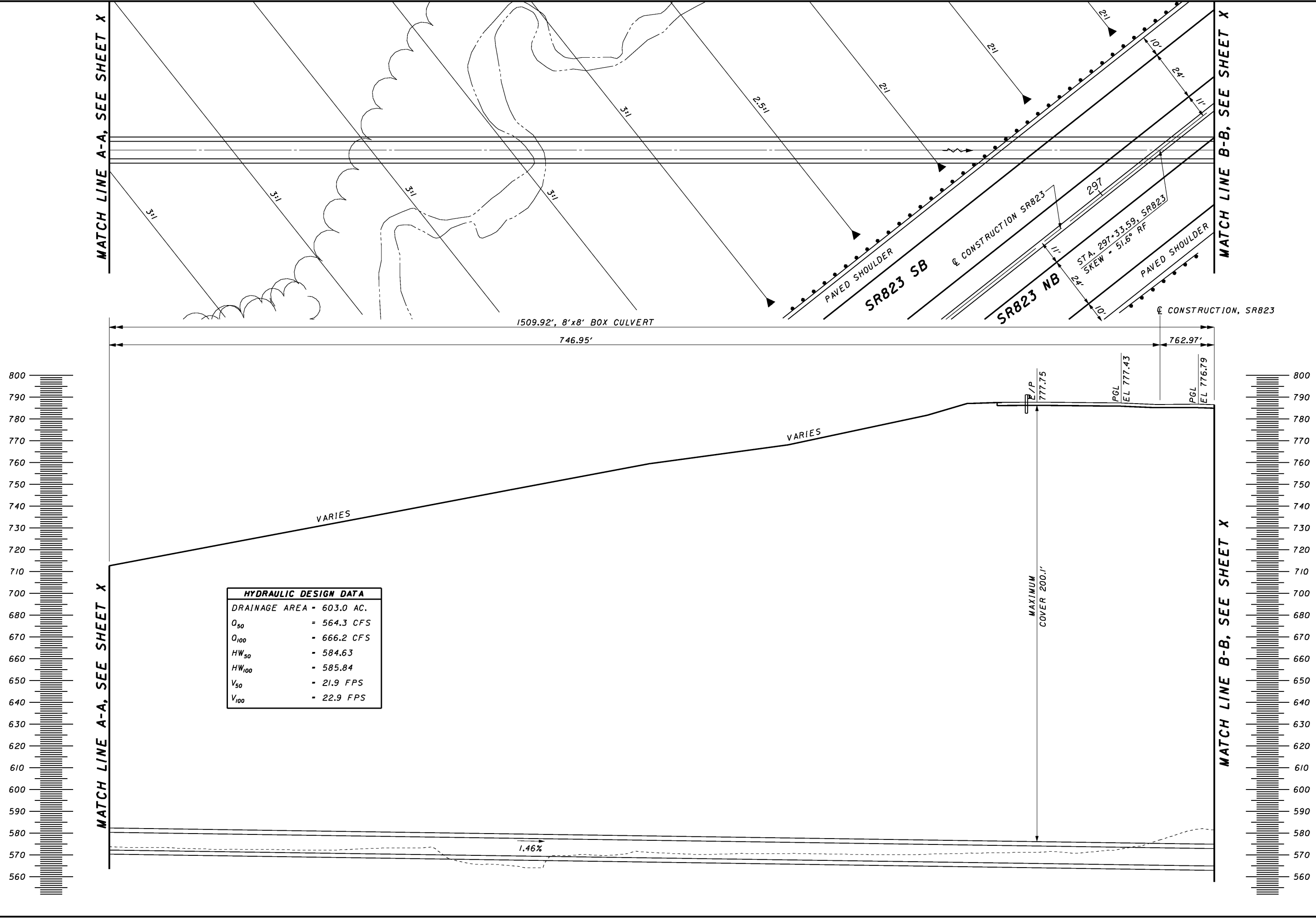
MATCH LINE A-A, SEE SHEET X



CULVERT DETAIL  
SR823 STA. 297+33.59

SCI-823-0.00

740



MATCH LINE A-A, SEE SHEET X

MATCH LINE A-A, SEE SHEET X

MATCH LINE B-B, SEE SHEET X

MATCH LINE B-B, SEE SHEET X

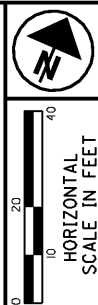
HYDRAULIC DESIGN DATA	
DRAINAGE AREA	= 603.0 AC.
$Q_{50}$	= 564.3 CFS
$Q_{100}$	= 666.2 CFS
$HW_{50}$	= 584.63
$HW_{100}$	= 585.84
$V_{50}$	= 21.9 FPS
$V_{100}$	= 22.9 FPS

CALCULATED MC  
 CHECKED RN

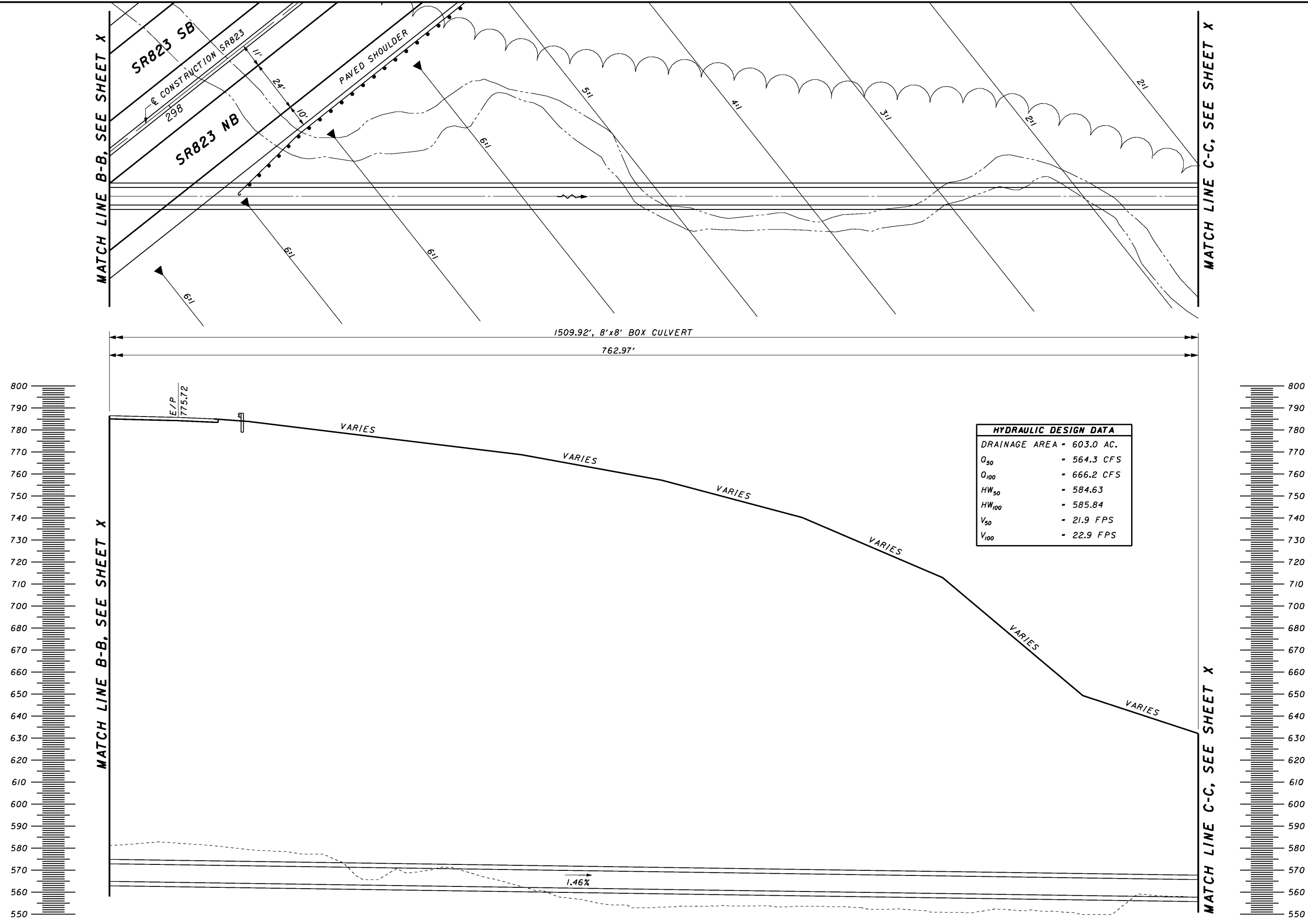
CULVERT DETAIL  
 SR823 STA. 297+33.59

SCI-823-0.00

741







MATCH LINE B-B, SEE SHEET X

MATCH LINE B-B, SEE SHEET X

MATCH LINE C-C, SEE SHEET X

MATCH LINE C-C, SEE SHEET X

1509.92', 8'x8' BOX CULVERT

762.97'

E/P  
775.72

VARIES

VARIES

VARIES

VARIES

VARIES

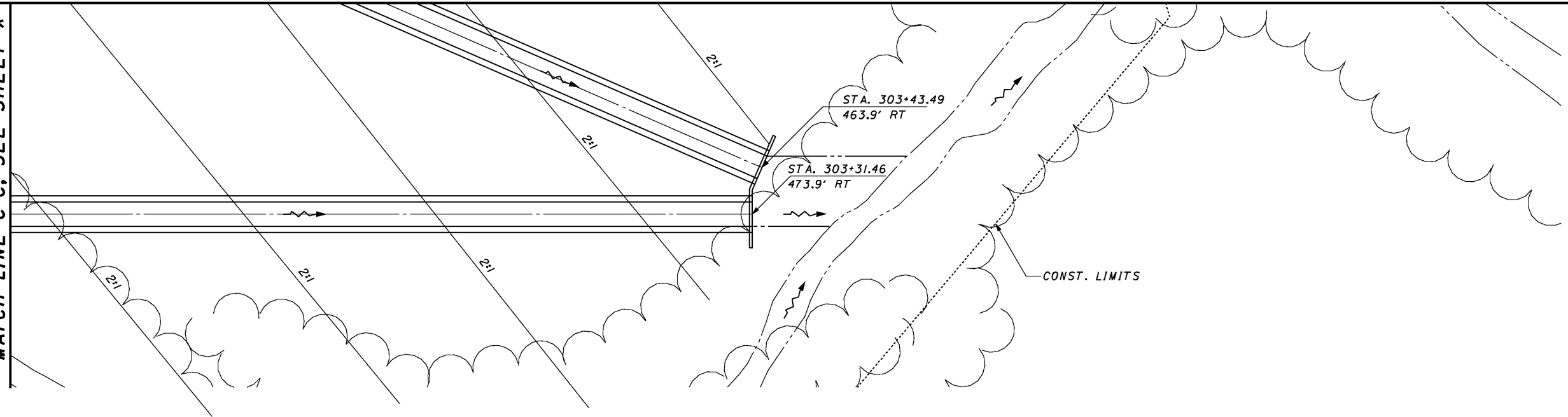
VARIES

1.46%

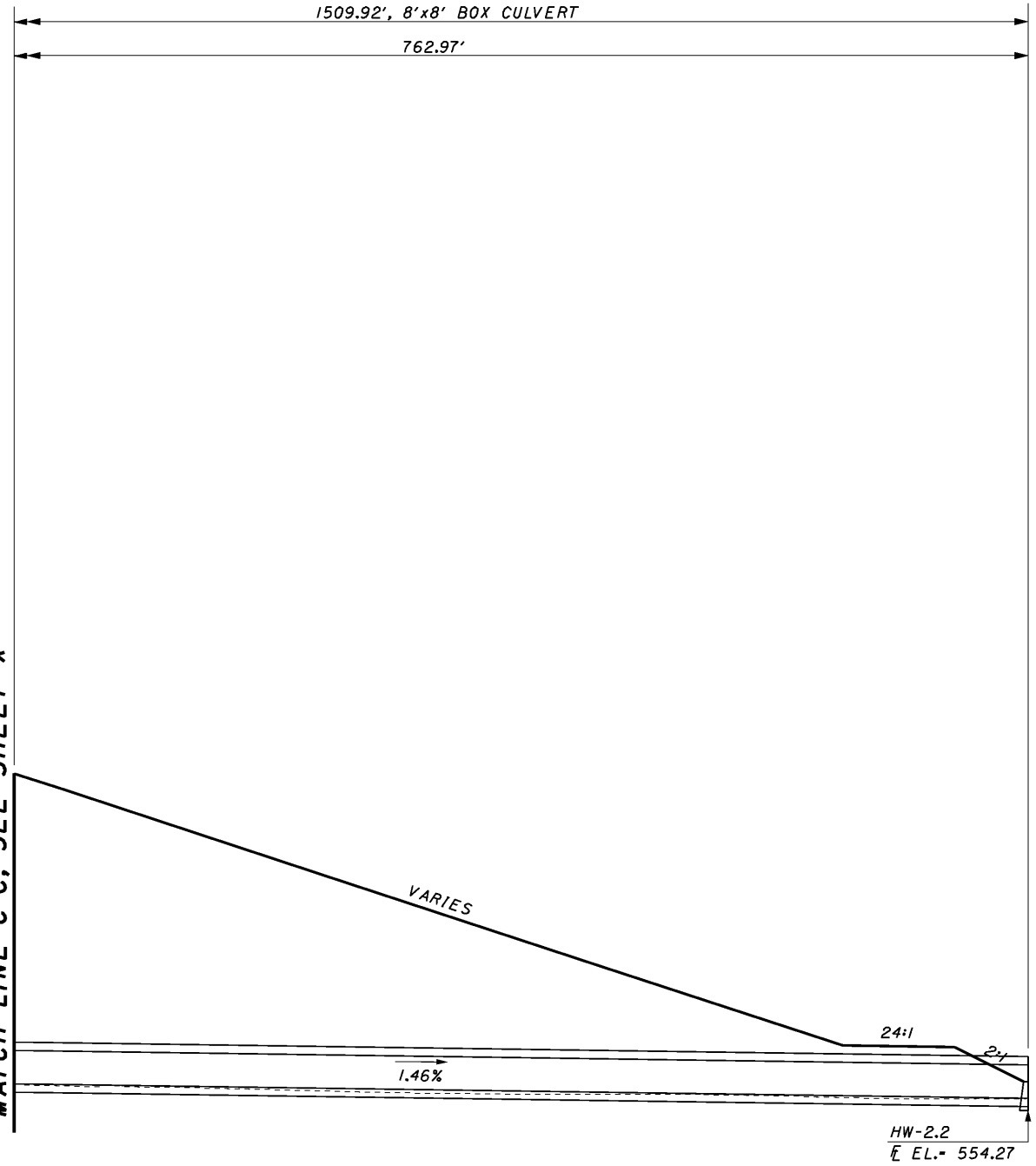
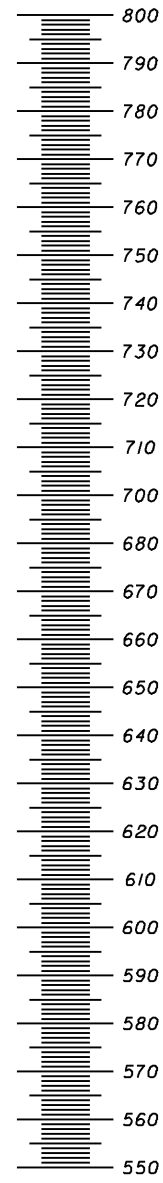
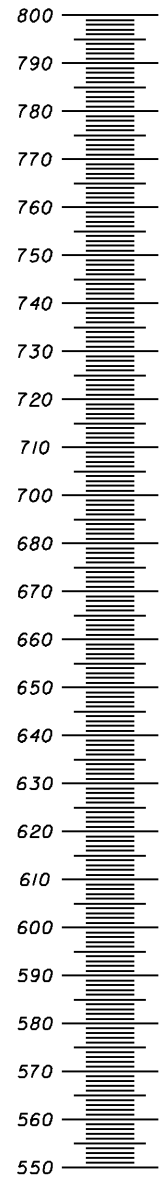
4:59:01 PM 1/30/2008 g:\co03\0064\road\phase\_3\71366dc25733d.sht

MATCH LINE C-C, SEE SHEET X

MATCH LINE C-C, SEE SHEET X



1509.92', 8'x8' BOX CULVERT  
762.97'



HYDRAULIC DESIGN DATA	
DRAINAGE AREA = 603.0 AC.	
$Q_{50}$	= 564.3 CFS
$Q_{100}$	= 666.2 CFS
$HW_{50}$	= 584.63
$HW_{100}$	= 585.84
$V_{50}$	= 21.9 FPS
$V_{100}$	= 22.9 FPS



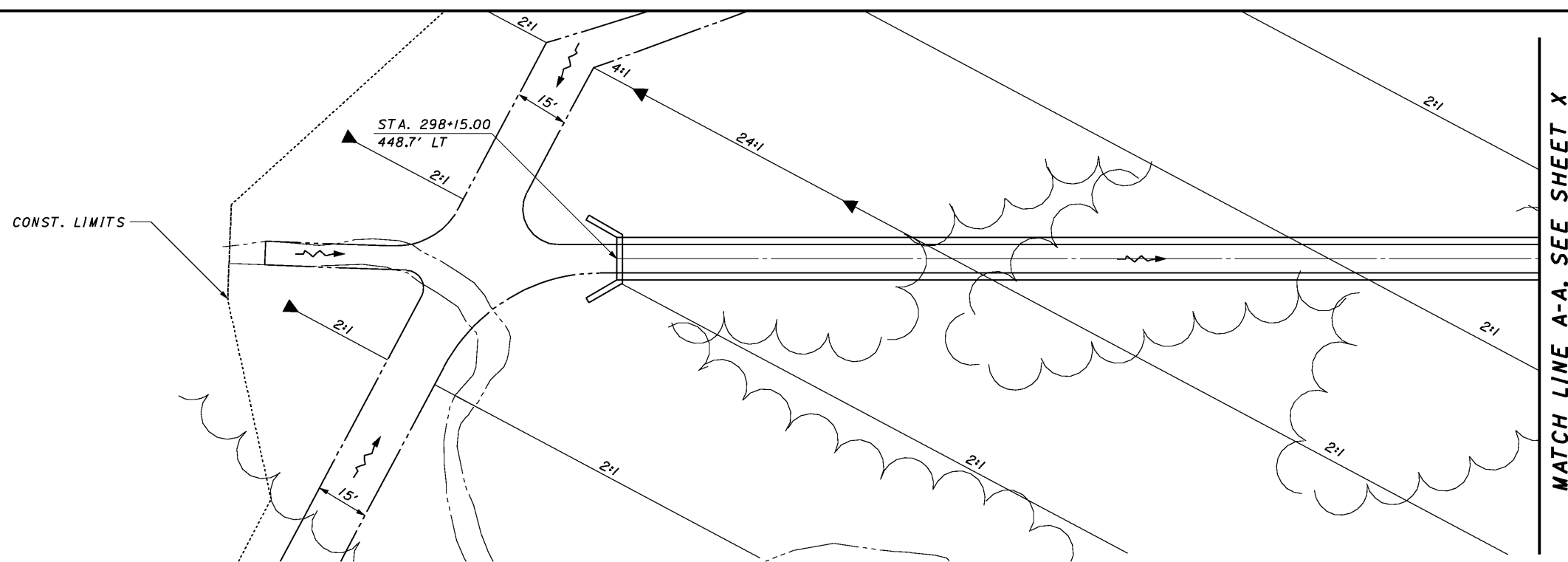
CALCULATED MC  
CHECKED RN

**CULVERT DETAIL**  
**SR823 STA. 297+33.59**

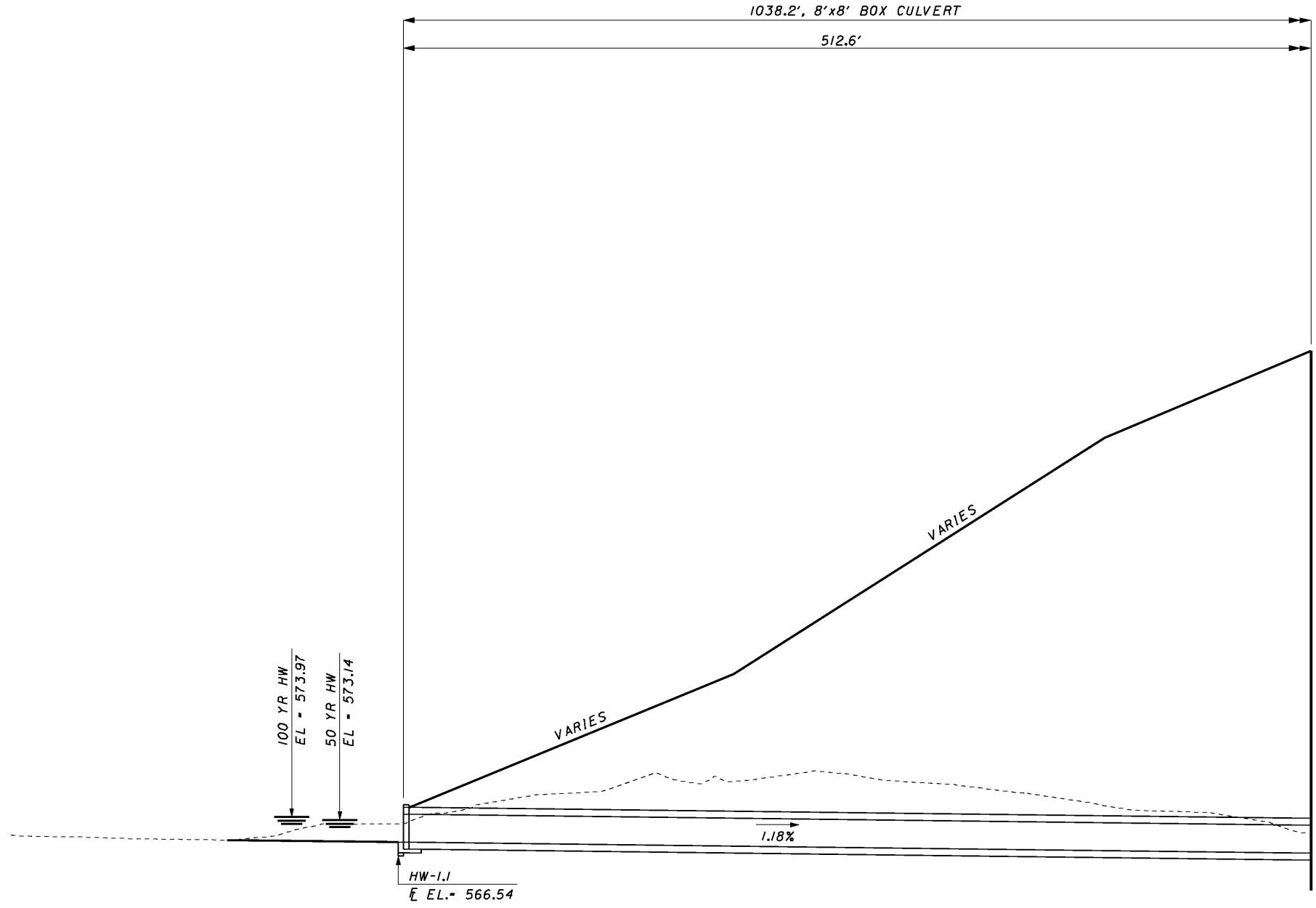
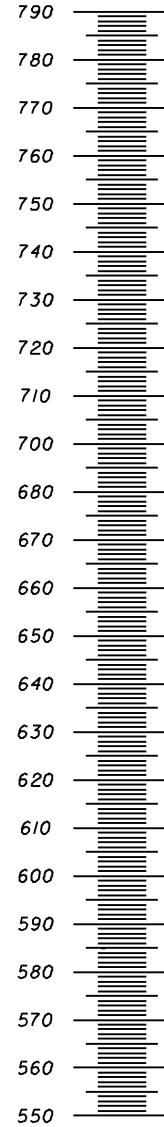
**SCI-823-0.00**

743

4:59:05 PM 1/30/2008 g:\co03\0064\road\phase\_3\71366dc30096a.sht



HYDRAULIC DESIGN DATA	
DRAINAGE AREA	- 333.9 AC.
$Q_{50}$	- 404.2 CFS
$Q_{100}$	- 479.2 CFS
$HW_{50}$	- 573.14
$HW_{100}$	- 573.97
$V_{50}$	- 18.6 FPS
$V_{100}$	- 19.4 FPS



CALCULATED MC  
CHECKED RN

CULVERT DETAIL  
SR823 STA. 300+96.46

SCI-823-0.00

744

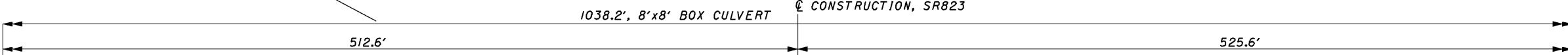
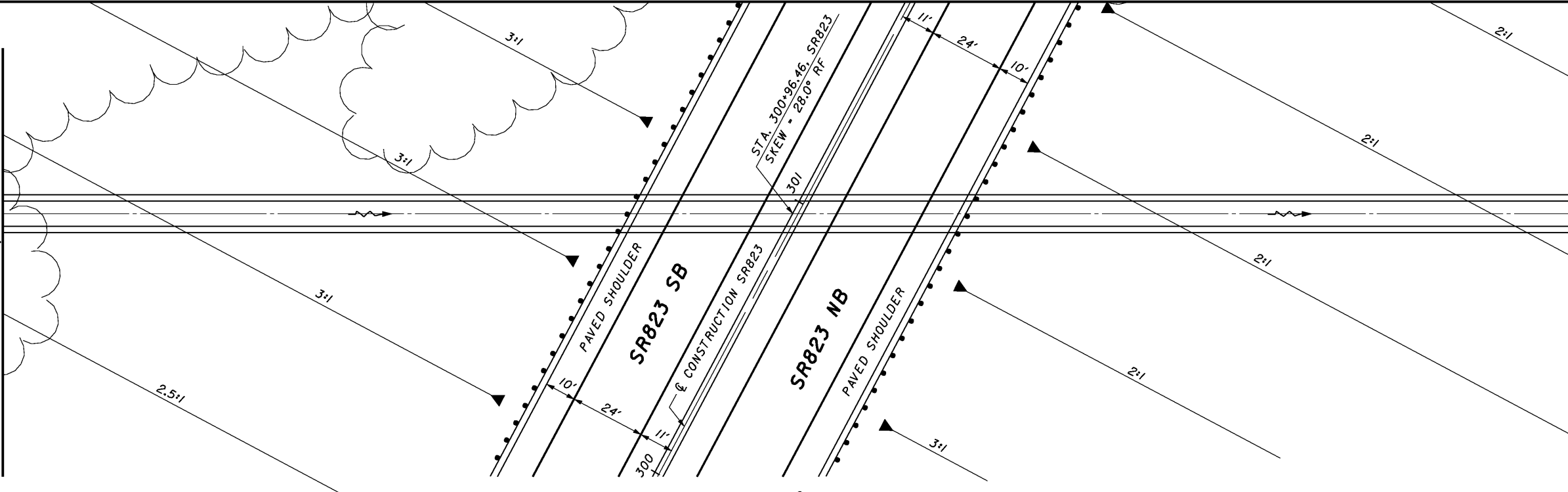


4:59:08 PM 1/30/2008 g:\co03\0064\road\phase\_3\77366dc30096b.sht



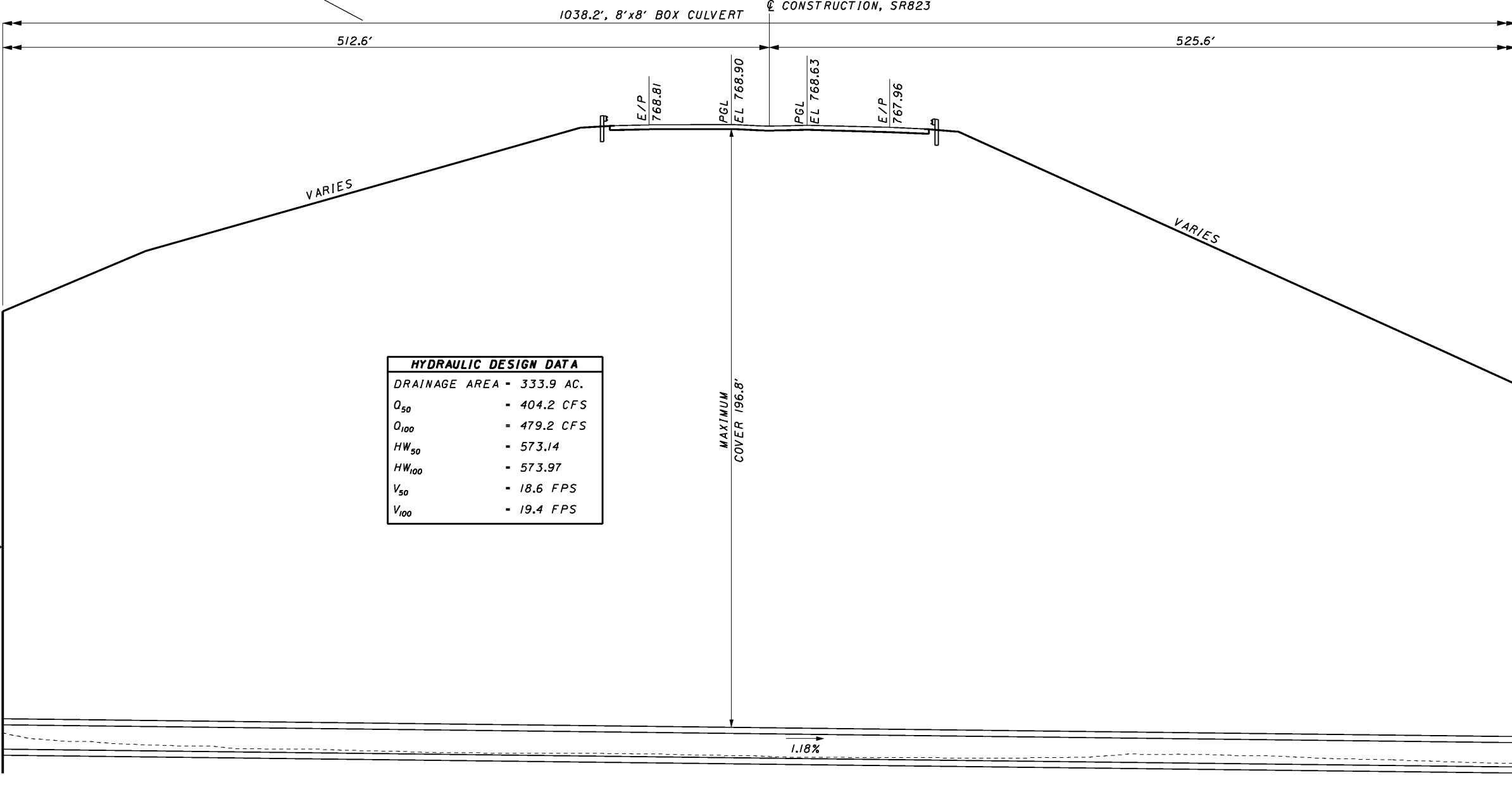
MATCH LINE A-A, SEE SHEET X

MATCH LINE A-A, SEE SHEET X



MATCH LINE A-A, SEE SHEET X

MATCH LINE B-B, SEE SHEET X

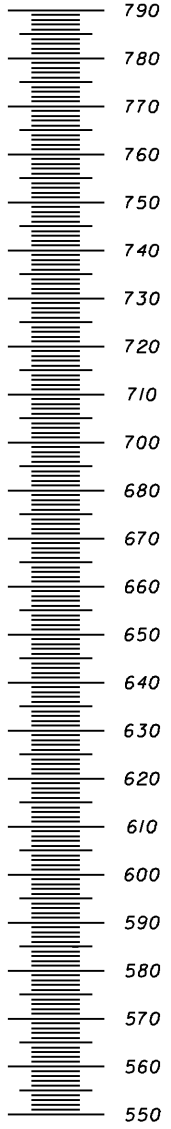


HYDRAULIC DESIGN DATA	
DRAINAGE AREA	= 333.9 AC.
$Q_{50}$	= 404.2 CFS
$Q_{100}$	= 479.2 CFS
$HW_{50}$	= 573.14
$HW_{100}$	= 573.97
$V_{50}$	= 18.6 FPS
$V_{100}$	= 19.4 FPS

E/P 768.81  
PGL EL 768.90  
PGL EL 768.63  
E/P 767.96

MATCH LINE B-B, SEE SHEET X

MATCH LINE B-B, SEE SHEET X



CALCULATED MC  
CHECKED RN

HORIZONTAL SCALE IN FEET

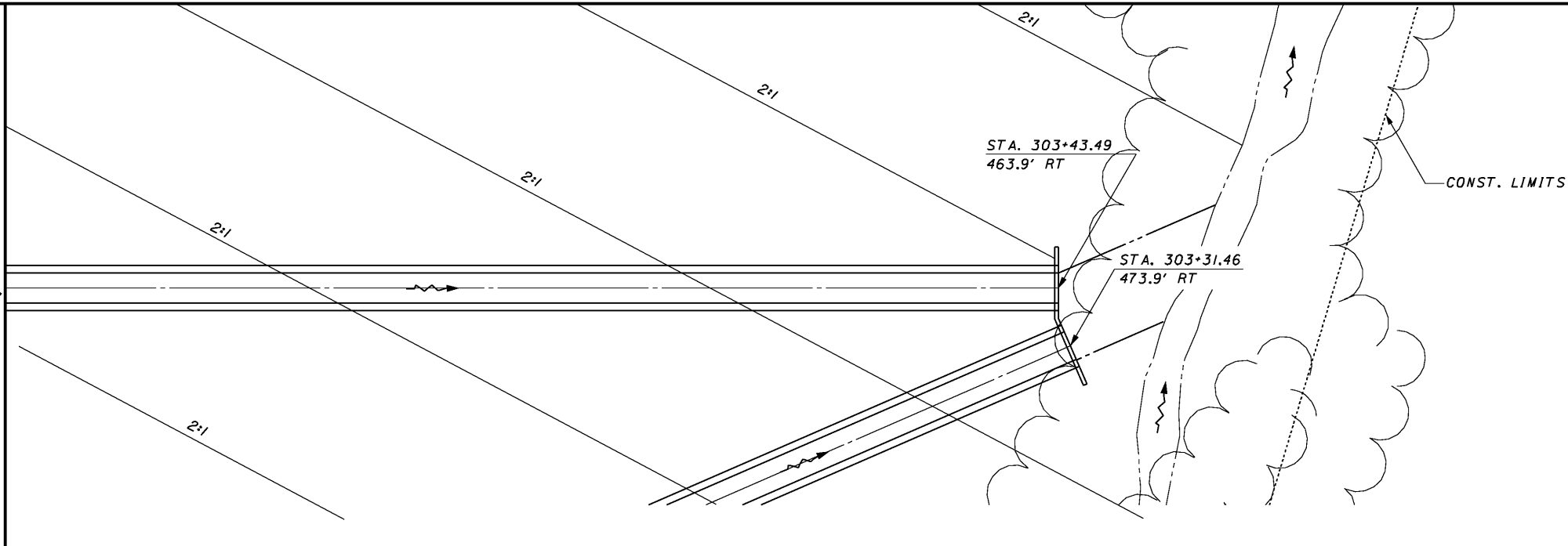
**CULVERT DETAIL**  
**SR823 STA. 300+96.46**

**SCI-823-0.00**

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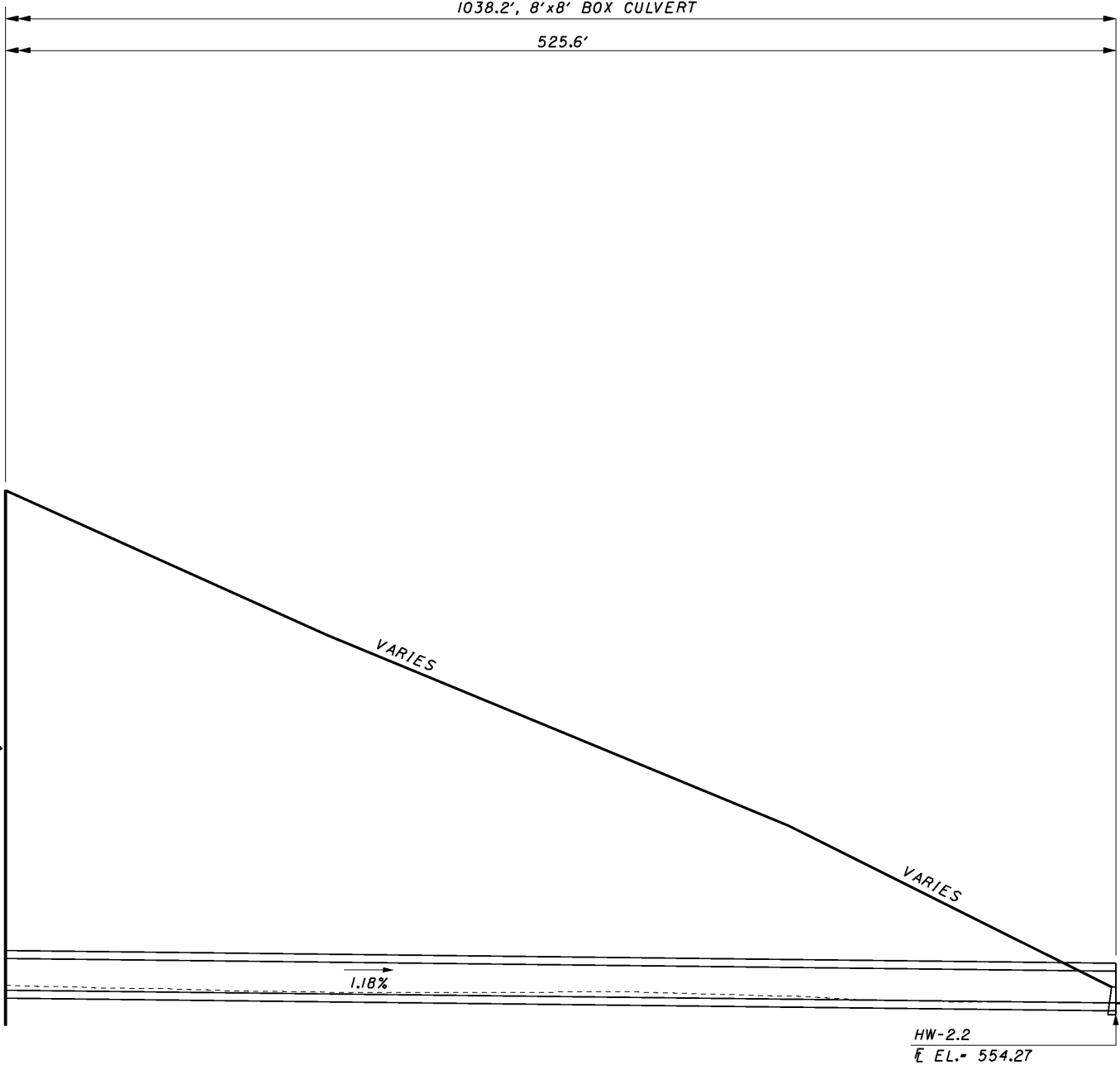
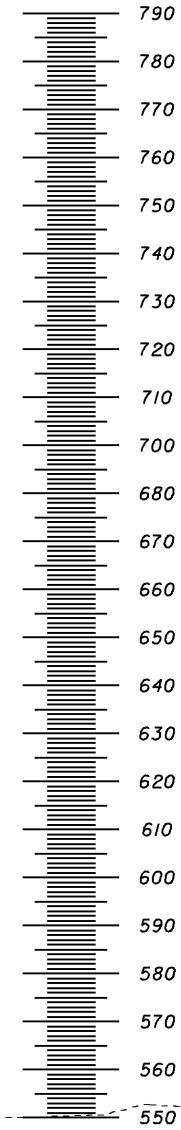
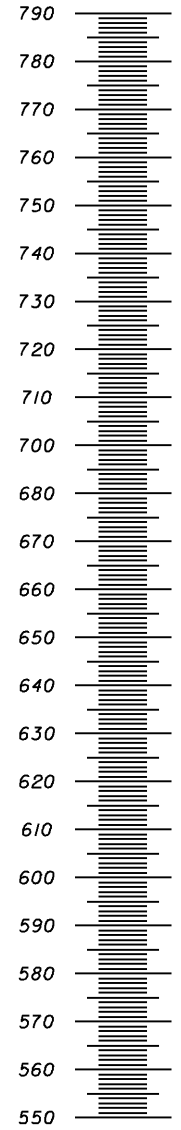
MATCH LINE B-B, SEE SHEET X

MATCH LINE B-B, SEE SHEET X



1038.2', 8'x8' BOX CULVERT

525.6'



HYDRAULIC DESIGN DATA	
DRAINAGE AREA = 333.9 AC.	
$Q_{50}$	= 404.2 CFS
$Q_{100}$	= 479.2 CFS
$HW_{50}$	= 573.14
$HW_{100}$	= 573.97
$V_{50}$	= 18.6 FPS
$V_{100}$	= 19.4 FPS

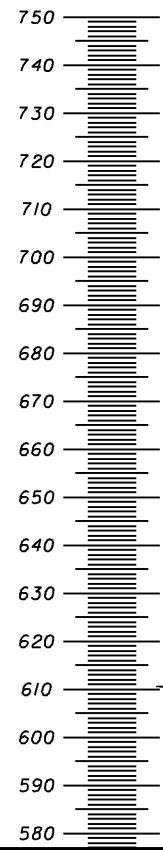


CALCULATED MC CHECKED RN

CULVERT DETAIL  
SR823 STA. 300+96.46

SCI-823-0.00

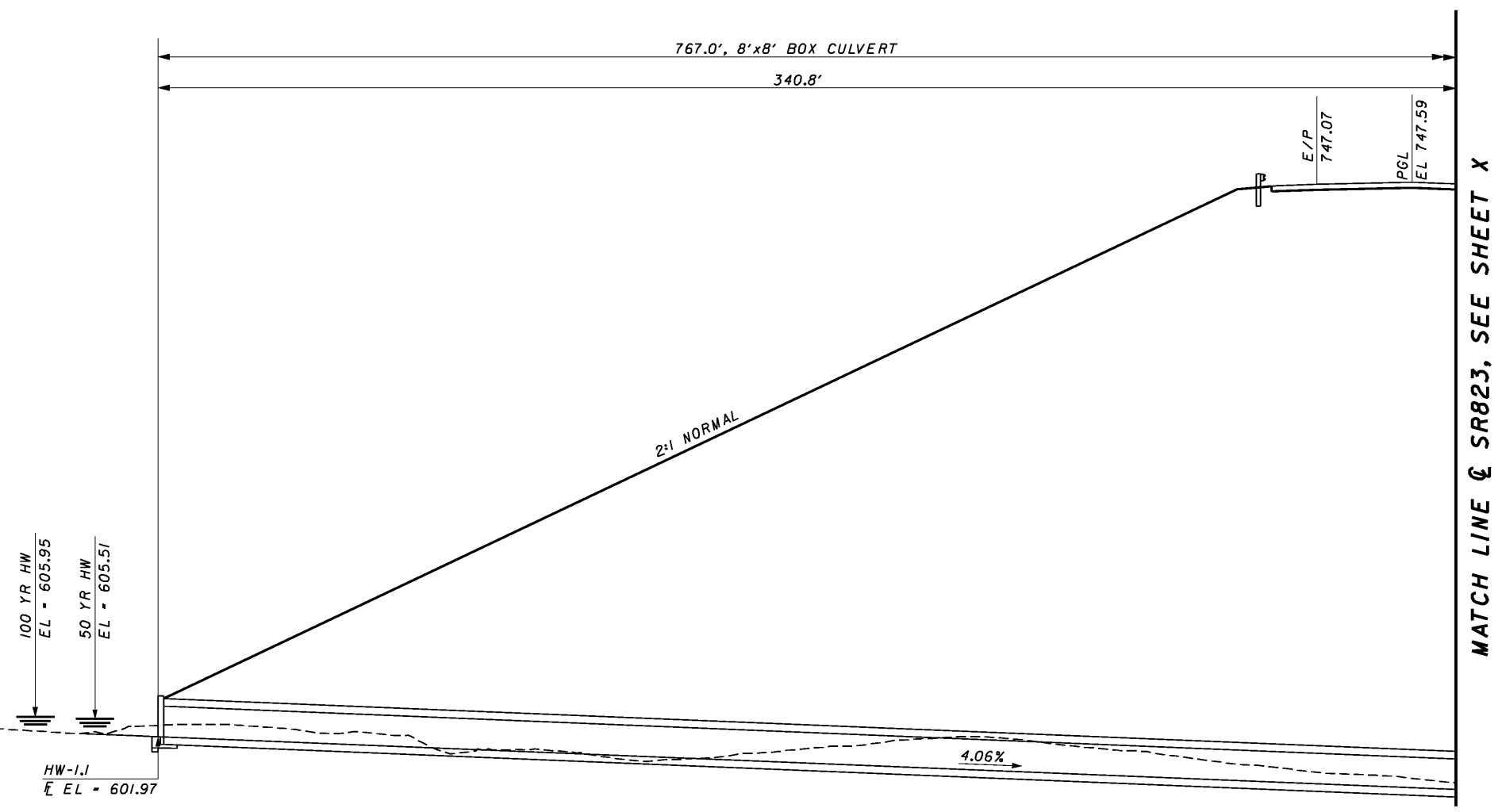
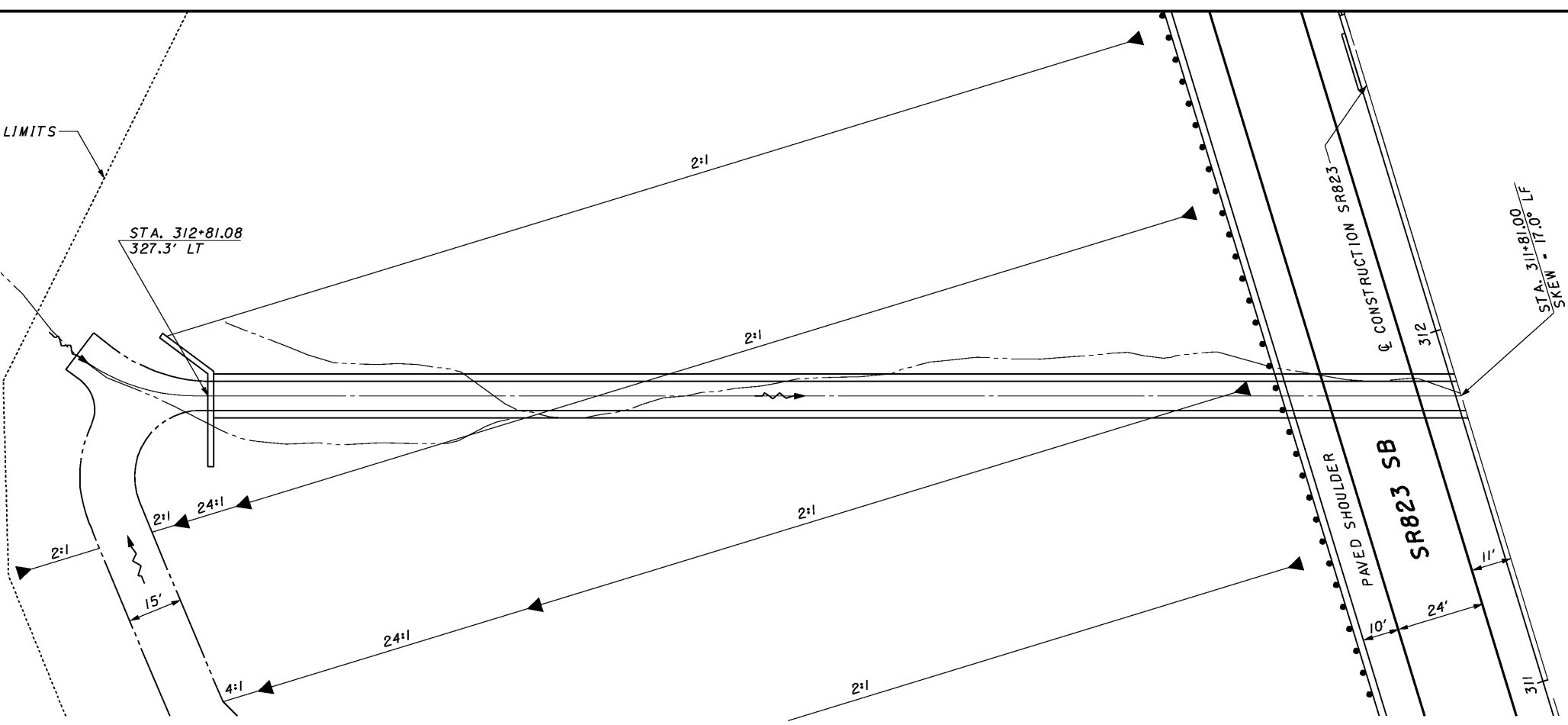
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HYDRAULIC DESIGN DATA	
DRAINAGE AREA - 84.1 AC.	
$Q_{50}$	= 168.0 CFS
$Q_{100}$	= 200.5 CFS
$HW_{50}$	= 605.51
$HW_{100}$	= 606.95
$V_{50}$	= 21.2 FPS
$V_{100}$	= 23.0 FPS

CONST. LIMITS

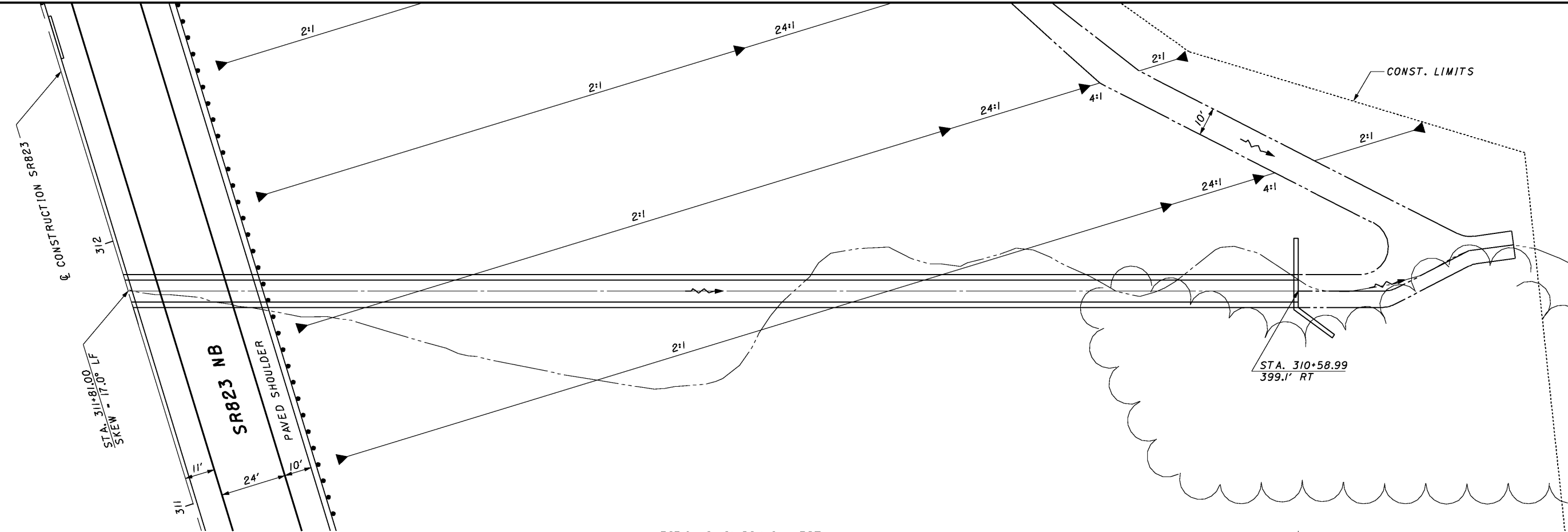
STA. 312+81.08  
327.3' LT



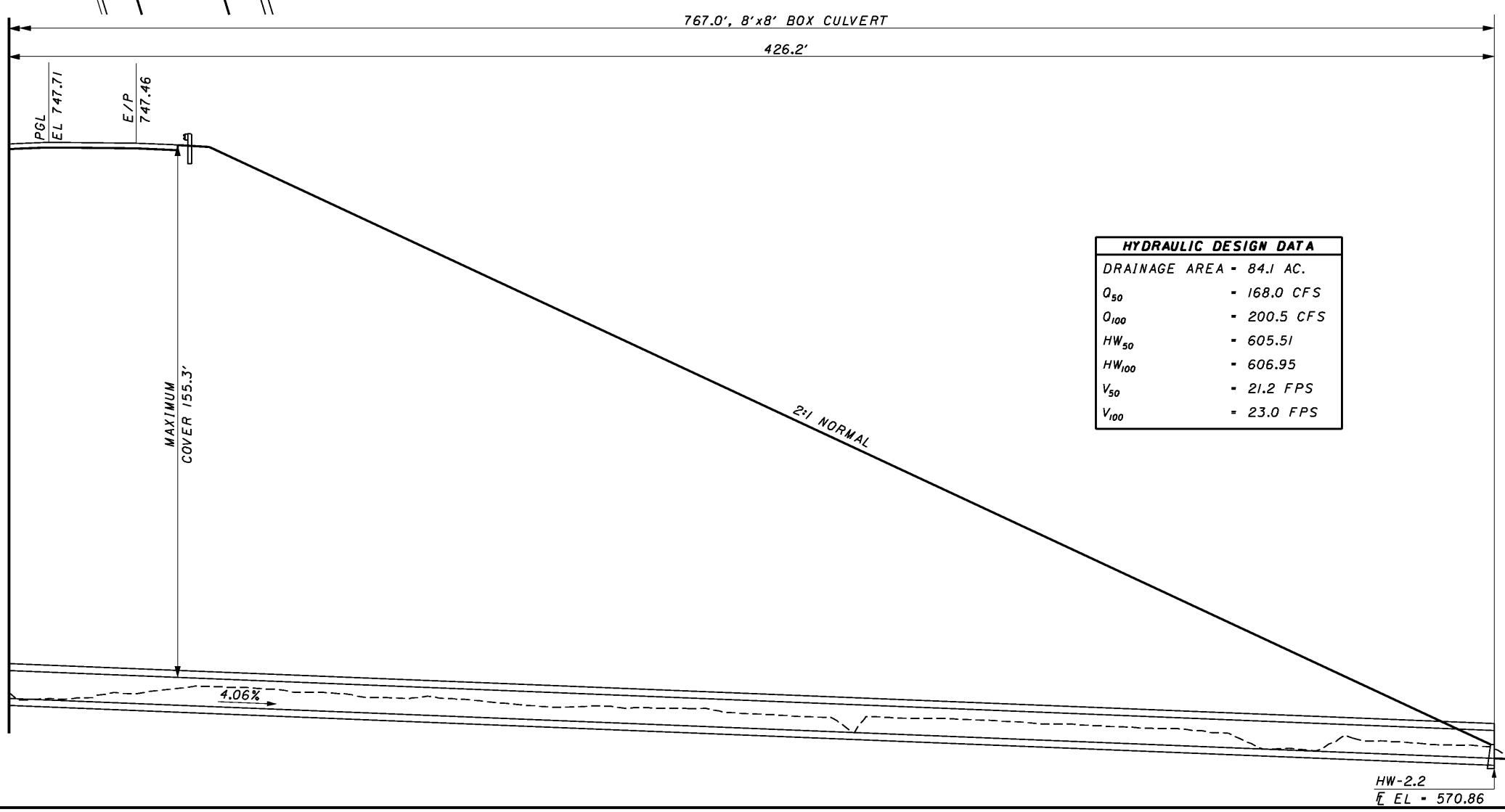
CALCULATED MC  
 CHECKED RN  
 HORIZONTAL SCALE IN FEET  
 0 10 20 40

**CULVERT DETAIL**  
**SR823 STA. 311+81.00**

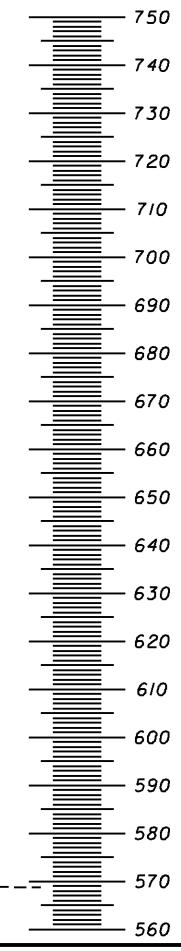




MATCH LINE @ SR823, SEE SHEET X



HYDRAULIC DESIGN DATA	
DRAINAGE AREA = 84.1 AC.	
$Q_{50}$	= 168.0 CFS
$Q_{100}$	= 200.5 CFS
$HW_{50}$	= 605.51
$HW_{100}$	= 606.95
$V_{50}$	= 21.2 FPS
$V_{100}$	= 23.0 FPS



CALCULATED MC  
CHECKED RN

HORIZONTAL SCALE IN FEET

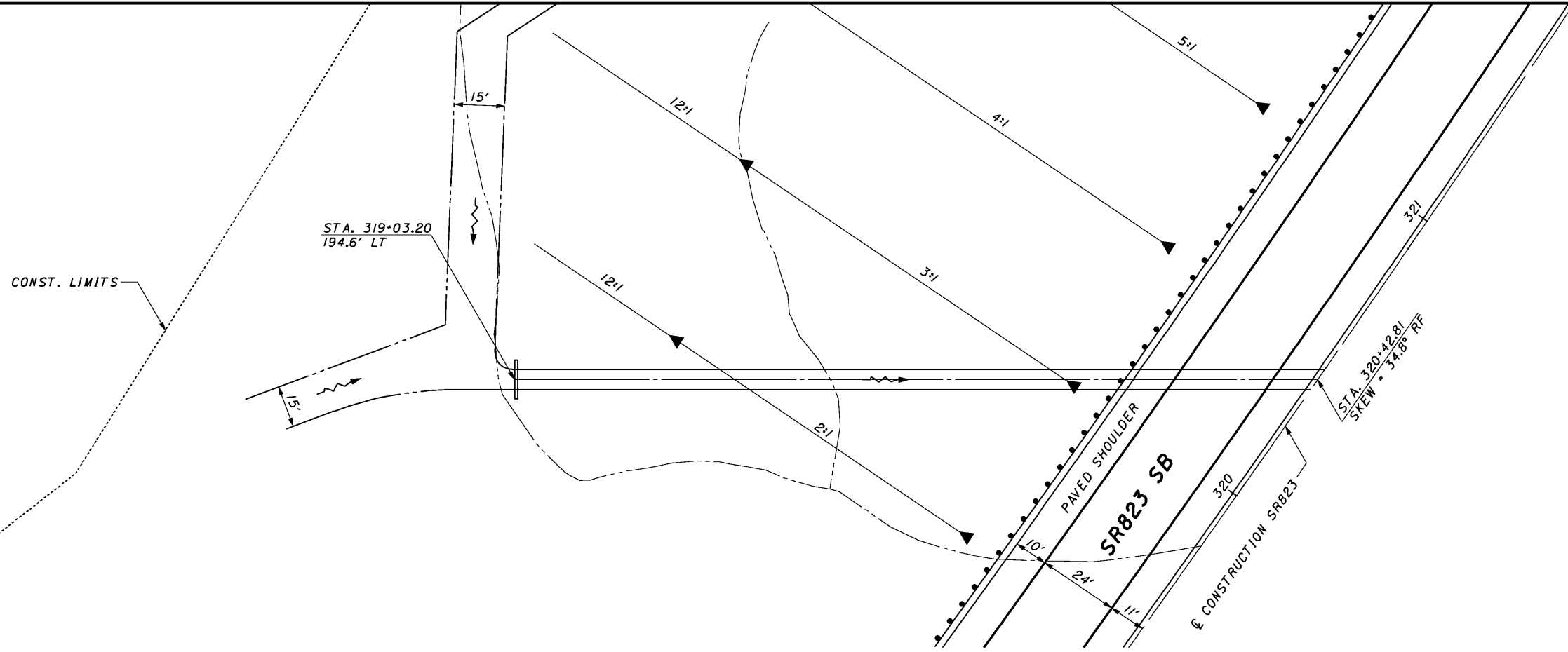
**CULVERT DETAIL**

**SR823 STA. 311+81.00**

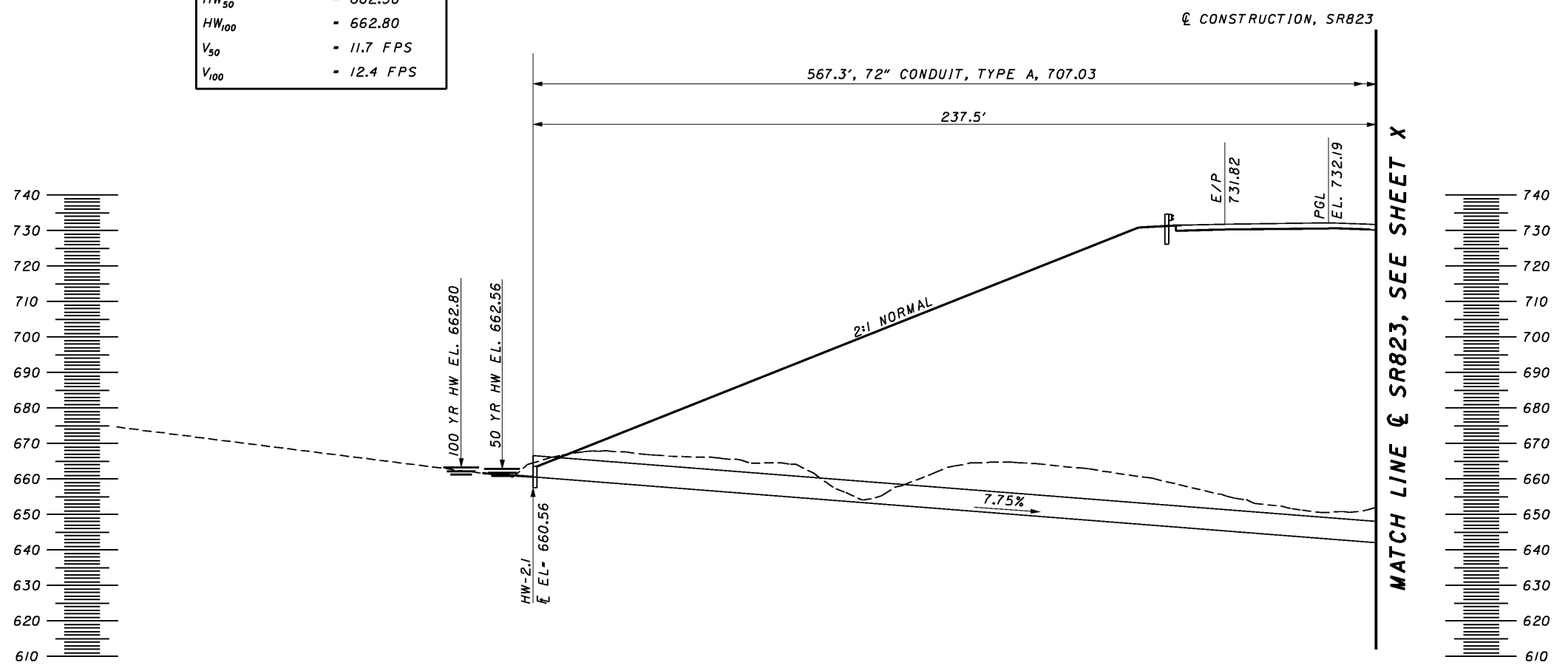
**SCI-823-0.00**

748

9:04:44 AM 1/30/2008 G:\C003\0064\Road\PHASE 3\171366dc32042c.sht



HYDRAULIC DESIGN DATA	
DRAINAGE AREA = 7.8 AC.	
$Q_{50}$	= 38.3 CFS
$Q_{100}$	= 46.3 CFS
$HW_{50}$	= 662.56
$HW_{100}$	= 662.80
$V_{50}$	= 11.7 FPS
$V_{100}$	= 12.4 FPS

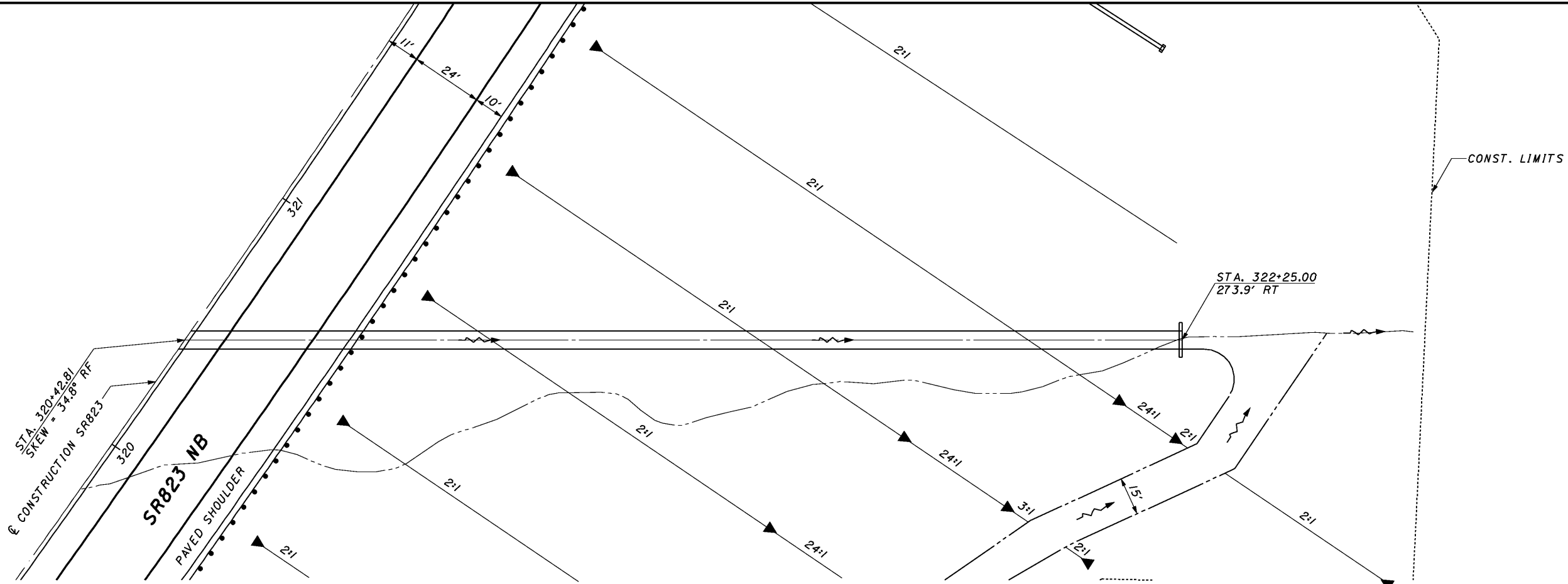


CALCULATED MC  
CHECKED RN

0 20 40  
HORIZONTAL SCALE IN FEET

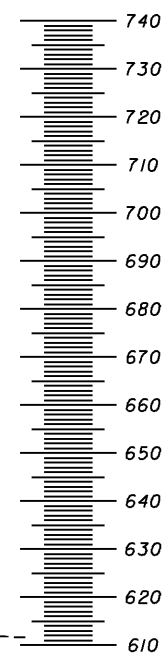
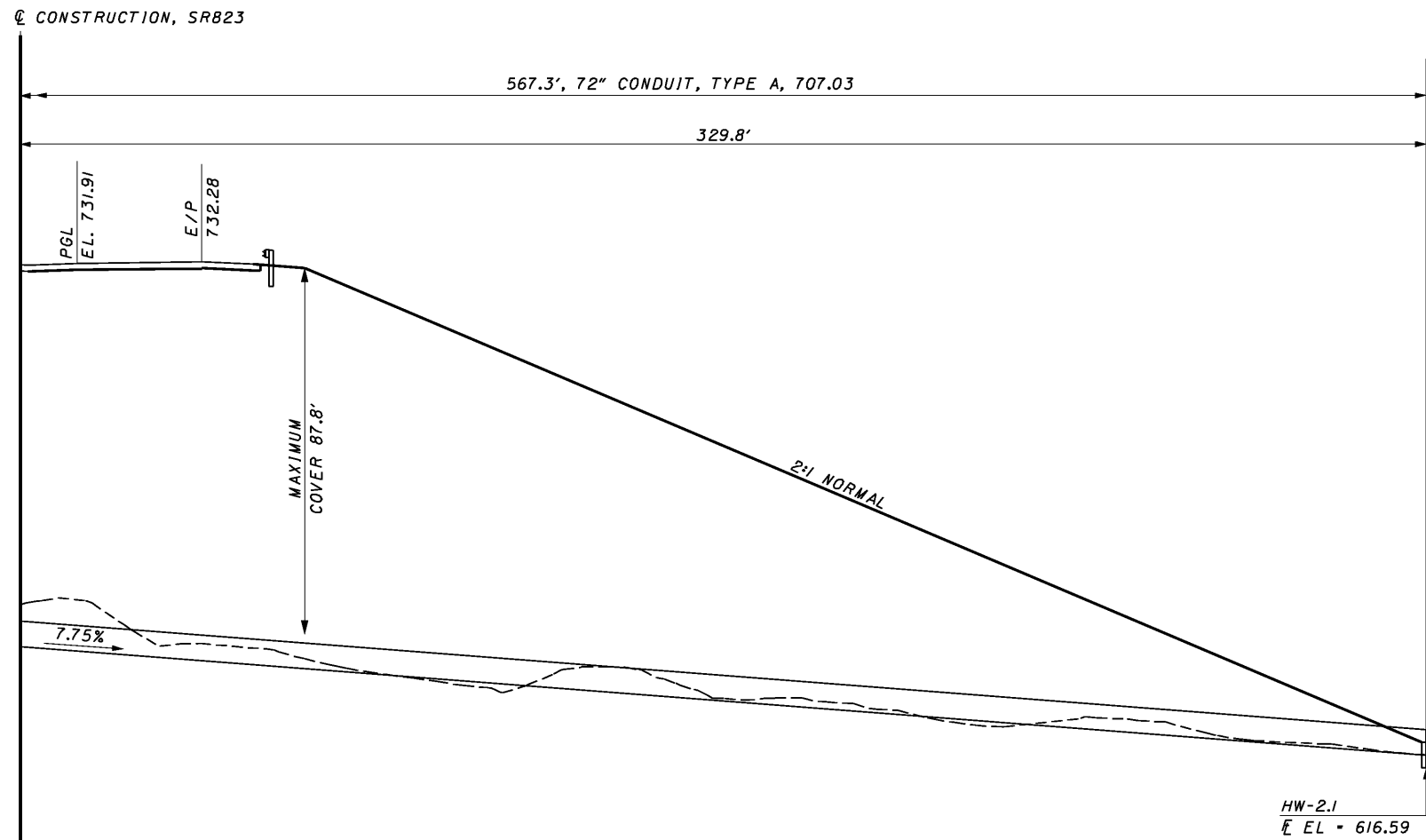
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**SR823 STA. 320+42.81**

9:03:15 AM 1/31/2008 g:\co03\0064\road\phase\_3\71366dc32042b.sht



HYDRAULIC DESIGN DATA	
DRAINAGE AREA - 7.8 AC.	
$Q_{50}$	- 38.3 CFS
$Q_{100}$	- 46.3 CFS
$HW_{50}$	- 662.56
$HW_{100}$	- 662.80
$V_{50}$	- 11.7 FPS
$V_{100}$	- 12.4 FPS

MATCH LINE @ SR823, SEE SHEET X



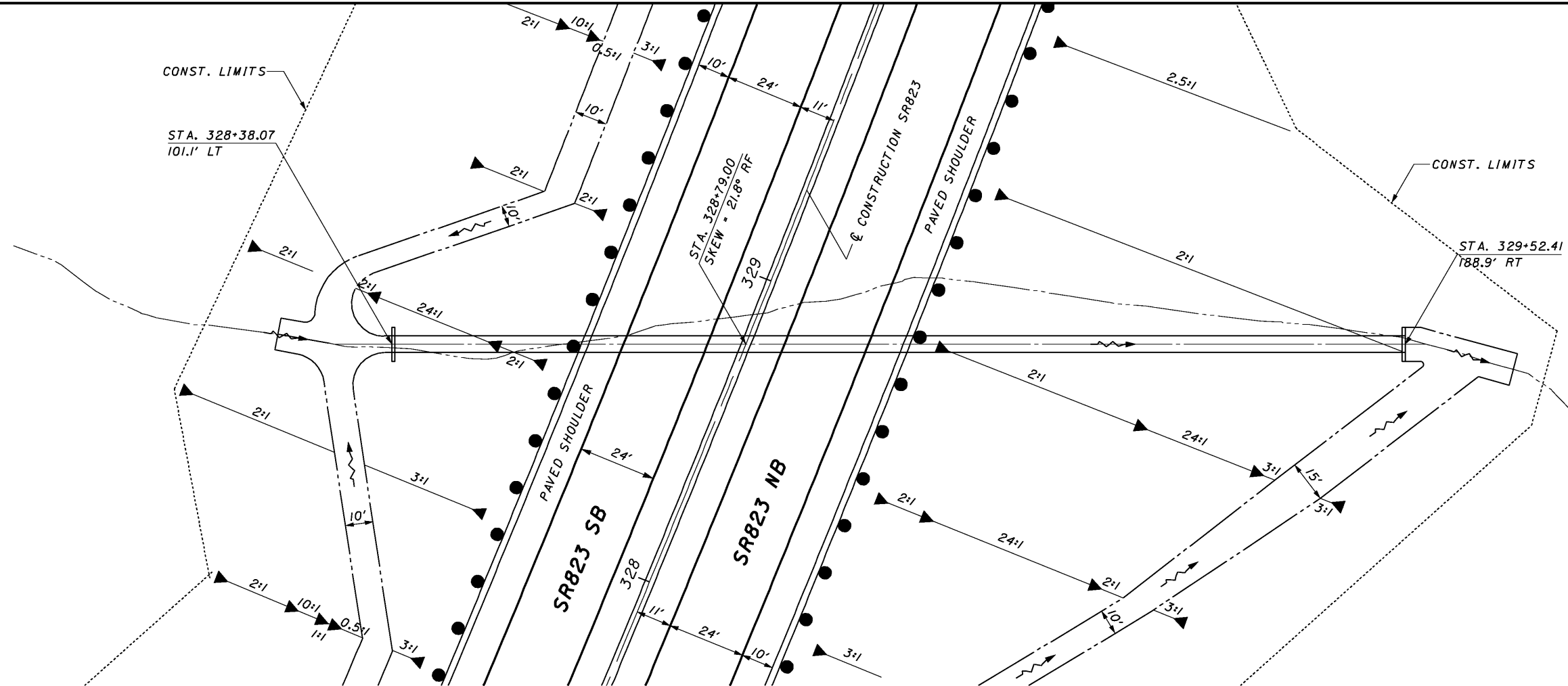
CALCULATED MC  
CHECKED XXX

0 10 20 40  
HORIZONTAL SCALE IN FEET

**CULVERT DETAIL**  
**SR823 STA. 320+42.81**

**SCI-823-0.00**

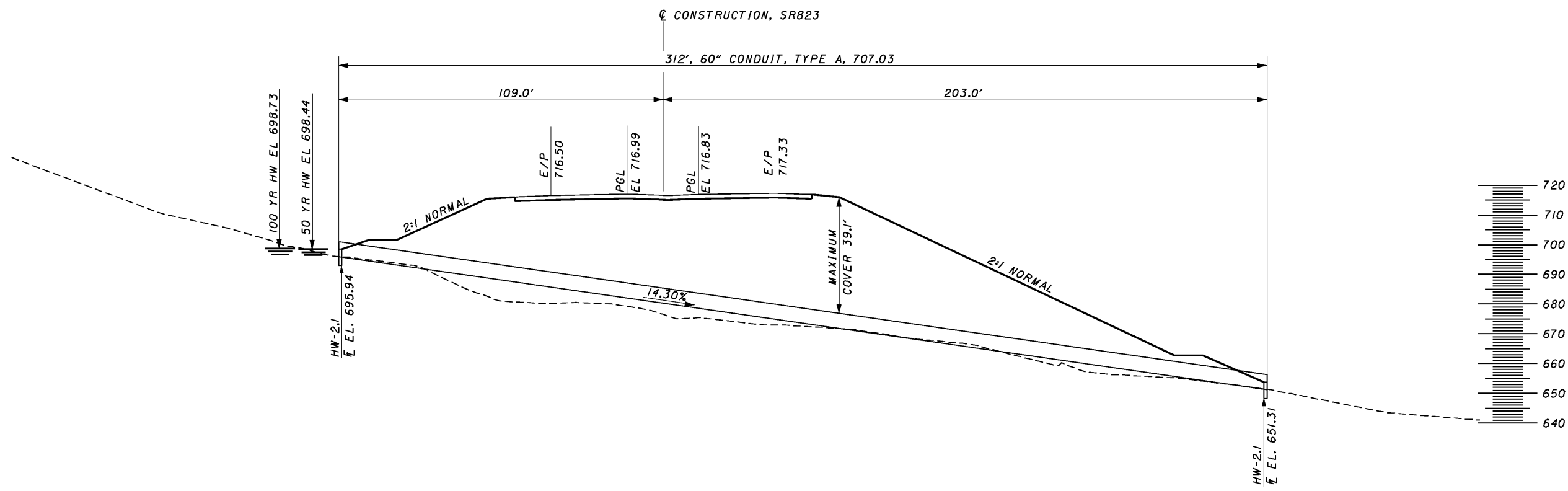




**HYDRAULIC DESIGN DATA**

DRAINAGE AREA - 8.2 AC.

$Q_{50}$	= 39.3 CFS
$Q_{100}$	= 47.5 CFS
$HW_{50}$	= 698.44
$HW_{100}$	= 698.73
$V_{50}$	= 15.0 FPS
$V_{100}$	= 15.9 FPS



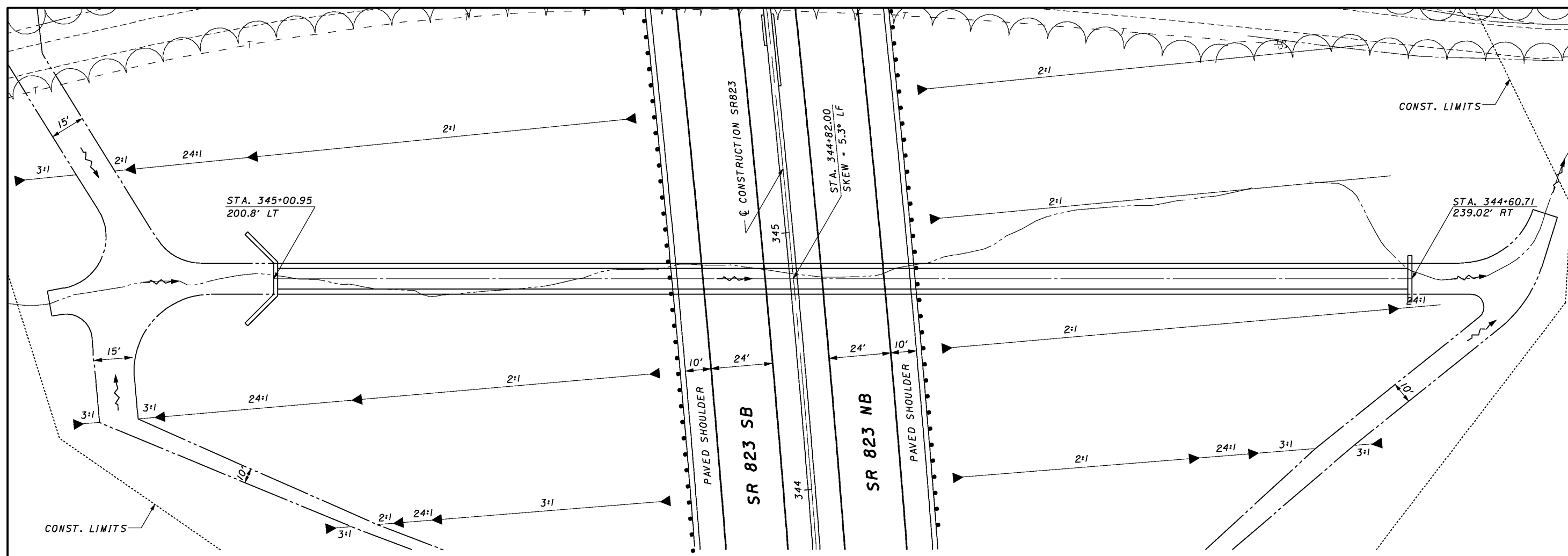
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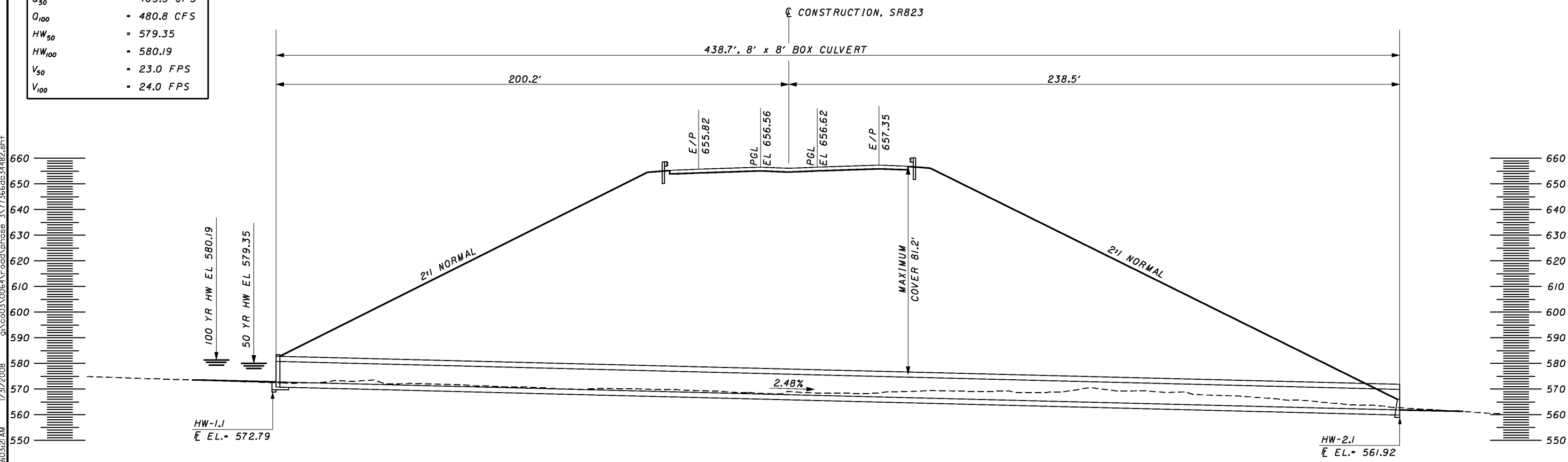
CALCULATED MC  
CHECKED HJS

# CULVERT DETAIL SR823 STA. 344+82.00

## SCI-823-0.00

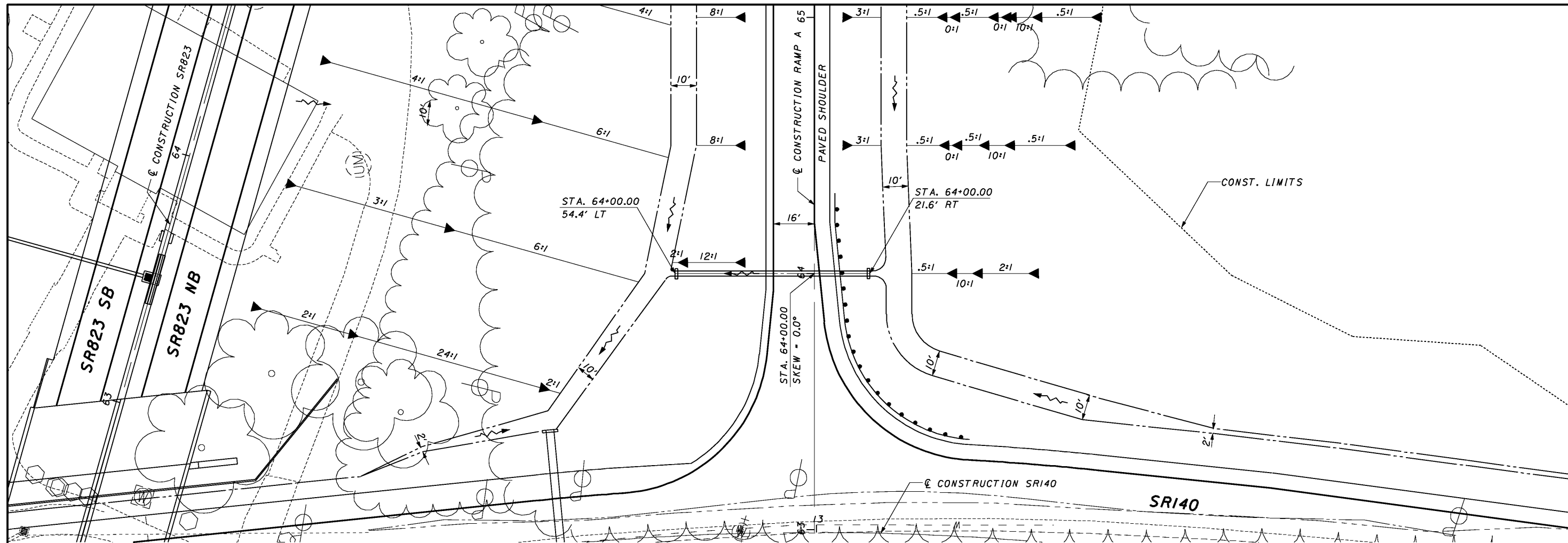


HYDRAULIC DESIGN DATA	
DRAINAGE AREA	= 328.8 AC.
$Q_{50}$	= 405.3 CFS
$Q_{100}$	= 480.8 CFS
$HW_{50}$	= 579.35
$HW_{100}$	= 580.19
$V_{50}$	= 23.0 FPS
$V_{100}$	= 24.0 FPS

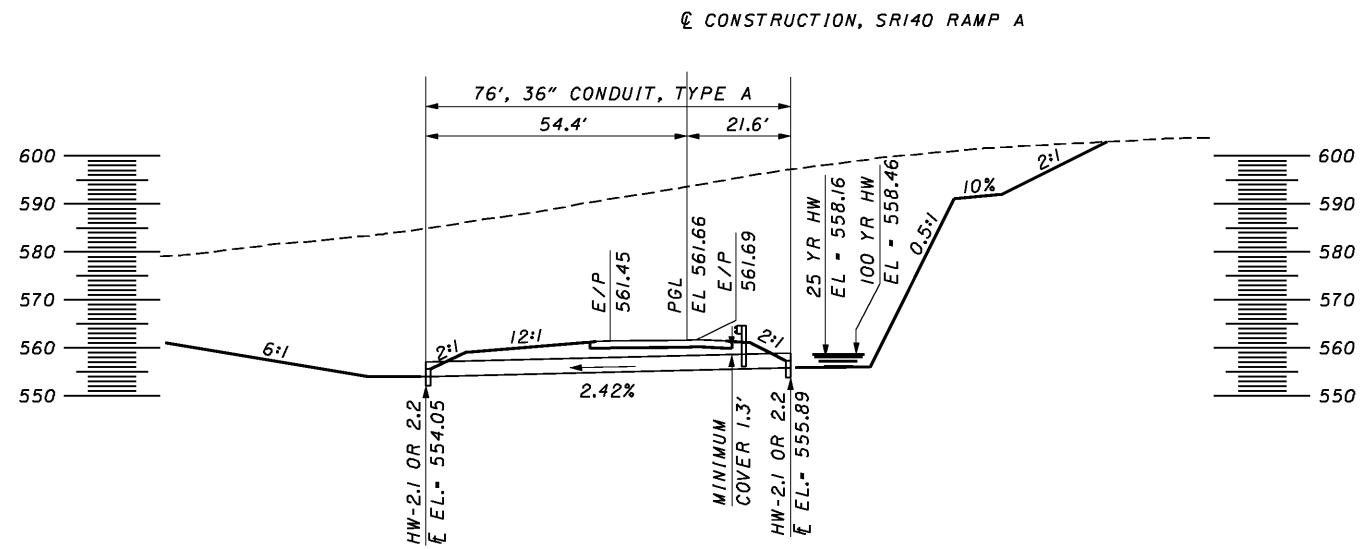


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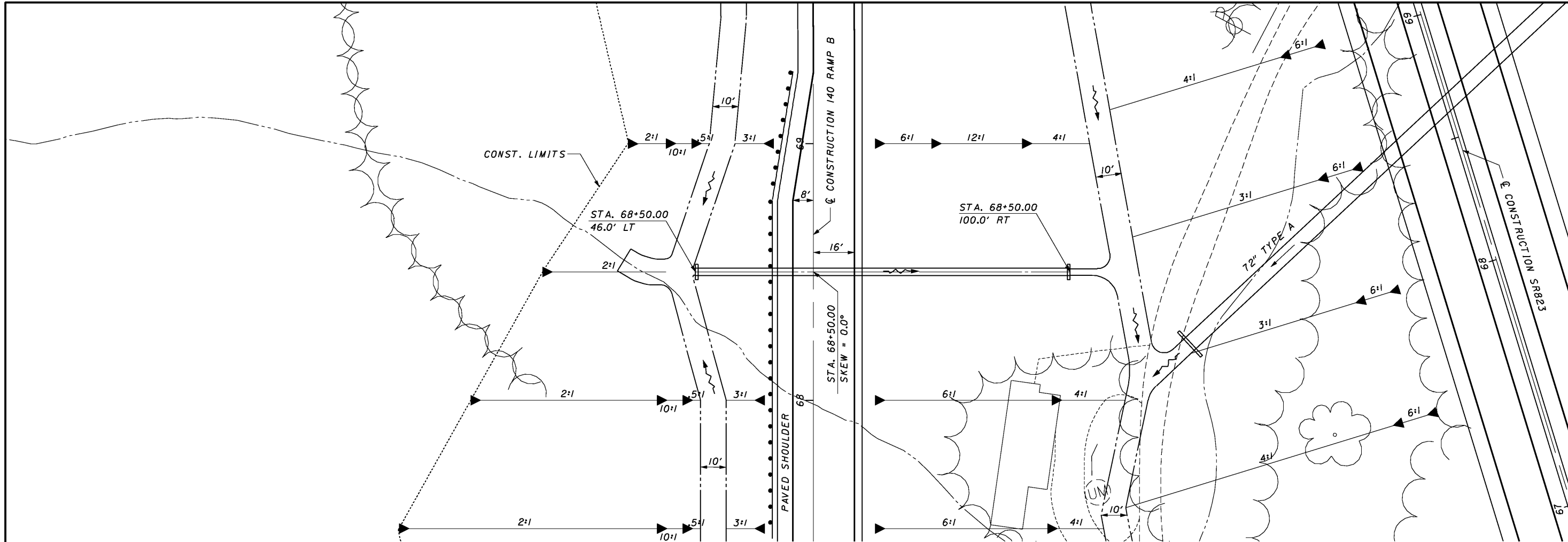
HYDRAULIC DESIGN DATA	
DRAINAGE AREA - 4.7 AC.	
$Q_{25}$	- 22.6 CFS
$Q_{100}$	- 27.7 CFS
$HW_{25}$	- 558.18
$HW_{100}$	- 558.79
$V_{25}$	- 6.7 FPS
$V_{100}$	- 7.0 FPS



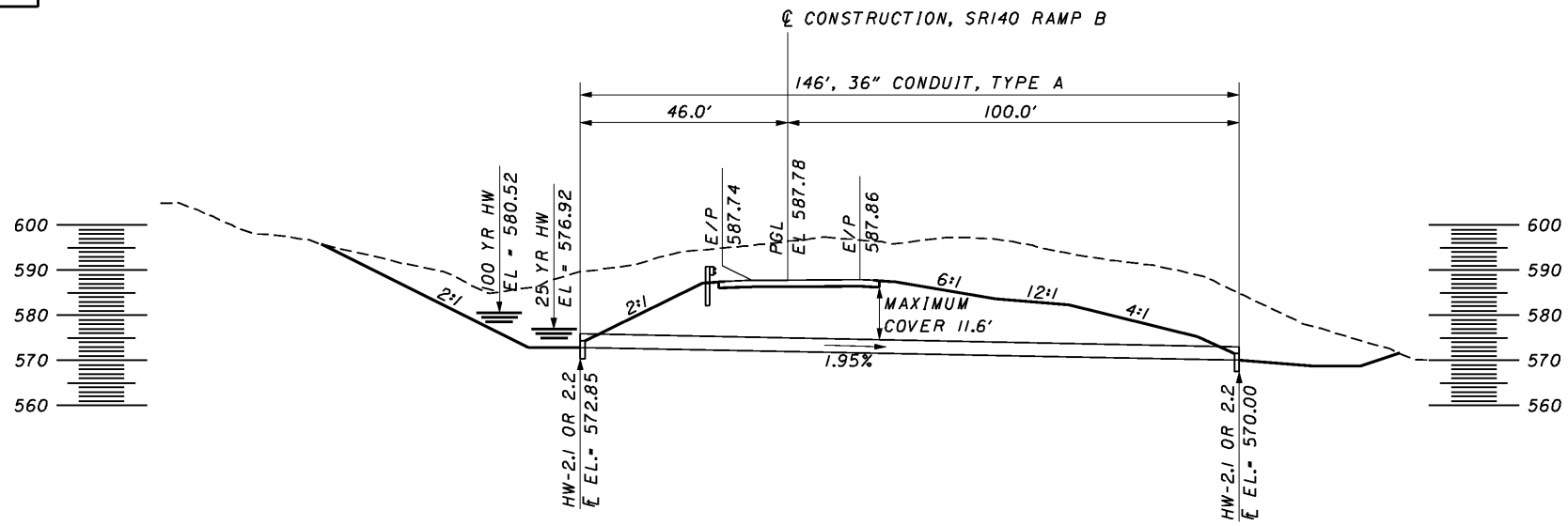
CALCULATED MC  
CHECKED RN

**CULVERT DETAIL**  
**SR140 RAMP A STA. 64+00.00**

**SCI-823-0.00**



HYDRAULIC DESIGN DATA	
DRAINAGE AREA - 13.7 AC.	
$Q_{25}$	- 44.0 CFS
$Q_{100}$	- 67.1 CFS
$HW_{25}$	- 576.92
$HW_{100}$	- 580.52
$V_{25}$	- 8.1 FPS
$V_{100}$	- 10.3 FPS



CALCULATED MC  
 CHECKED RN

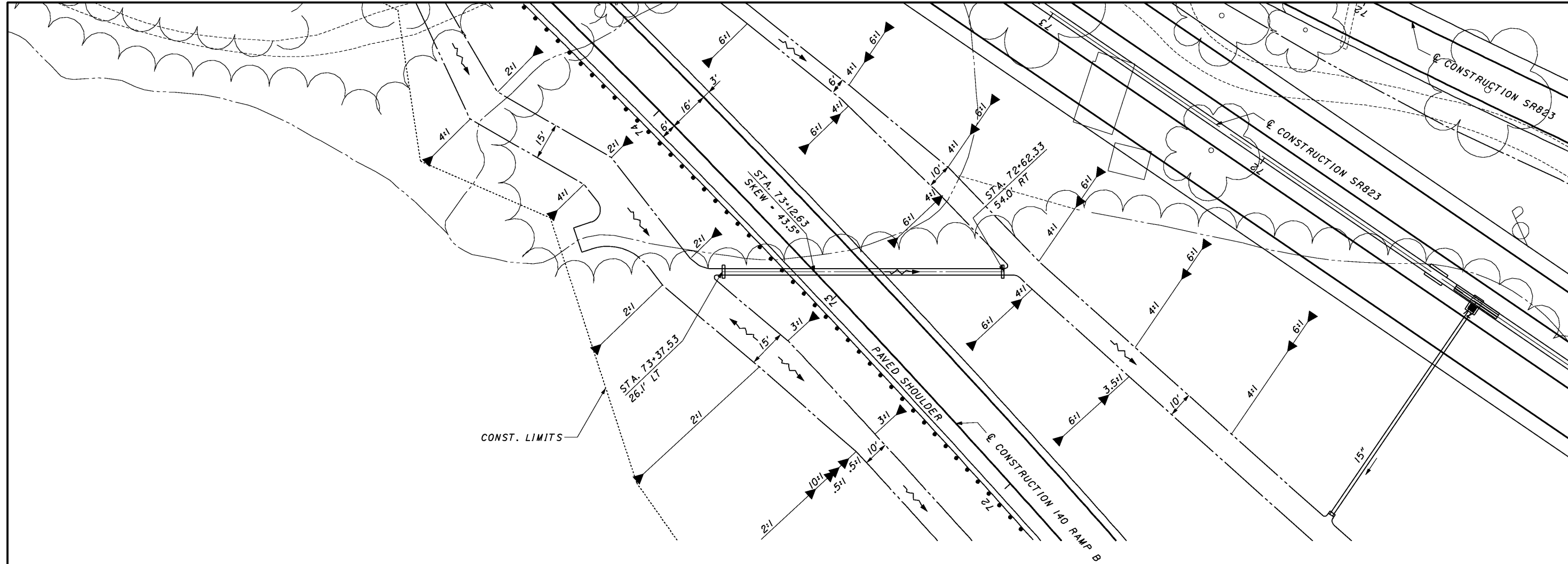
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**SCI-823-0.00**

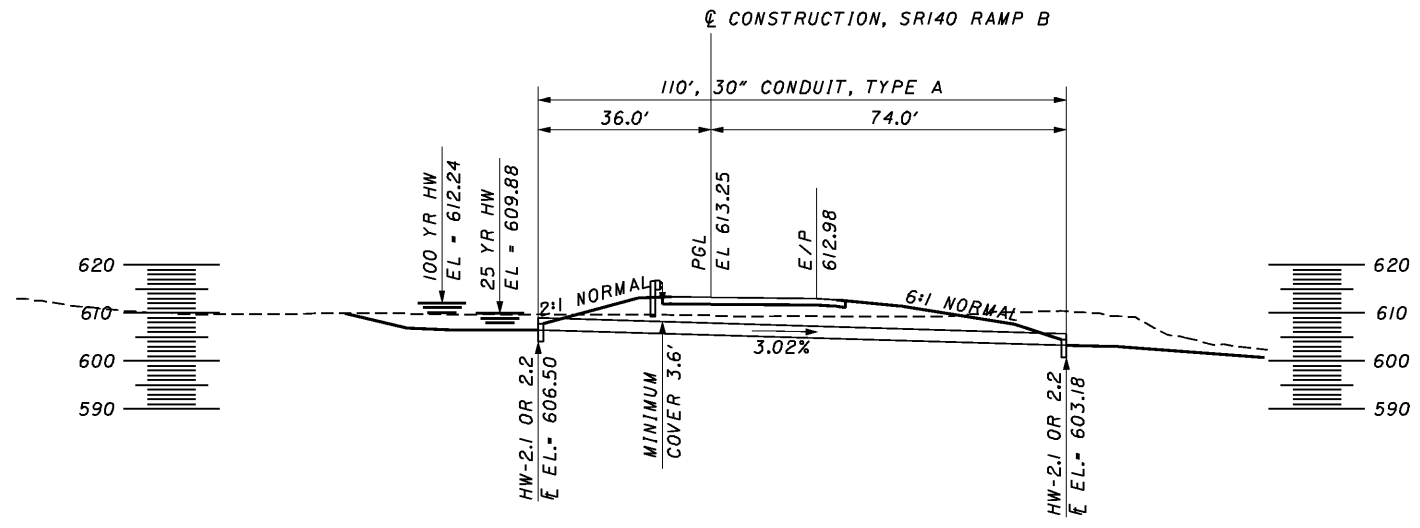
754



9:03:29 AM 1/31/2008 g:\co03\0064\road\phase\_3\7366dcsr\40-rampb\_7312.sht



HYDRAULIC DESIGN DATA	
DRAINAGE AREA - 14.8 AC.	
$Q_{25}$	- 29.8 CFS
$Q_{100}$	- 43.7 CFS
$HW_{25}$	- 609.88
$HW_{100}$	- 612.24
$V_{25}$	- 8.6 FPS
$V_{100}$	- 9.5 FPS

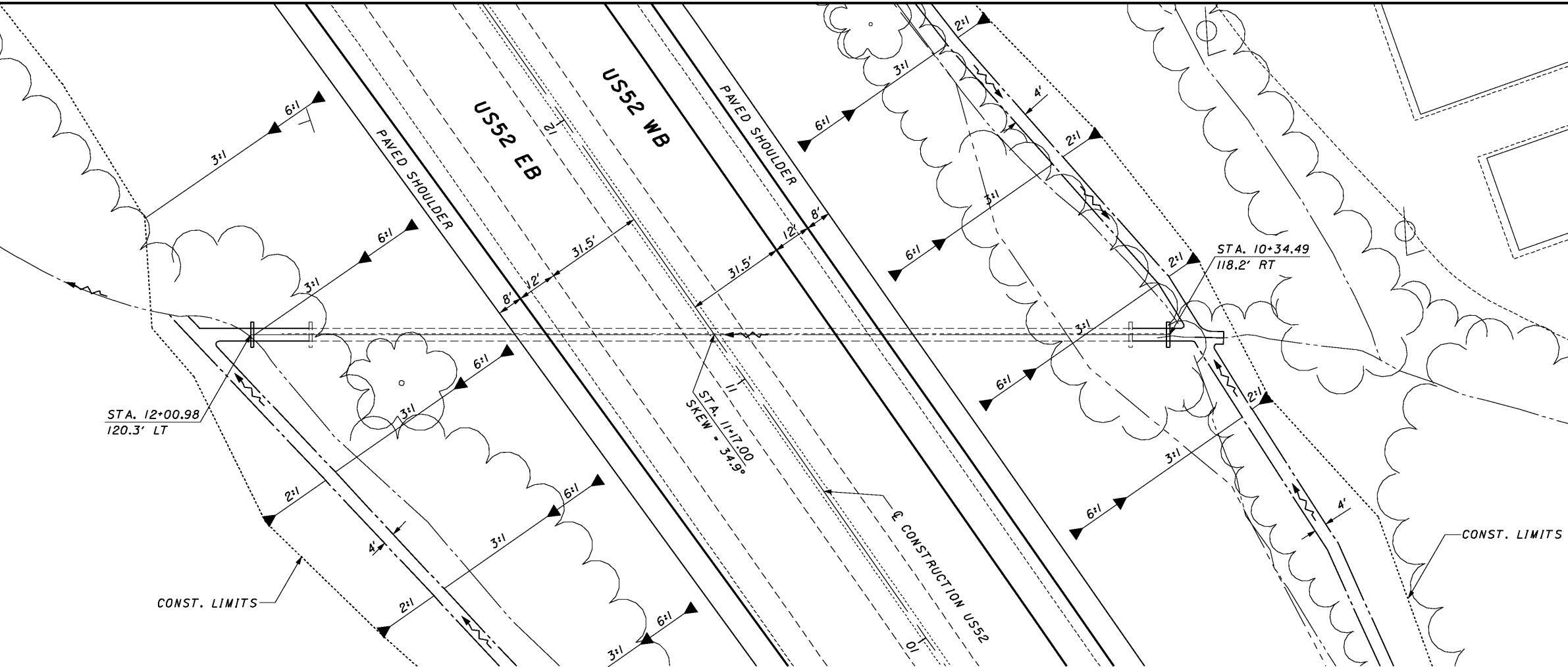


CALCULATED MC  
CHECKED RN

0 20 40  
HORIZONTAL SCALE IN FEET

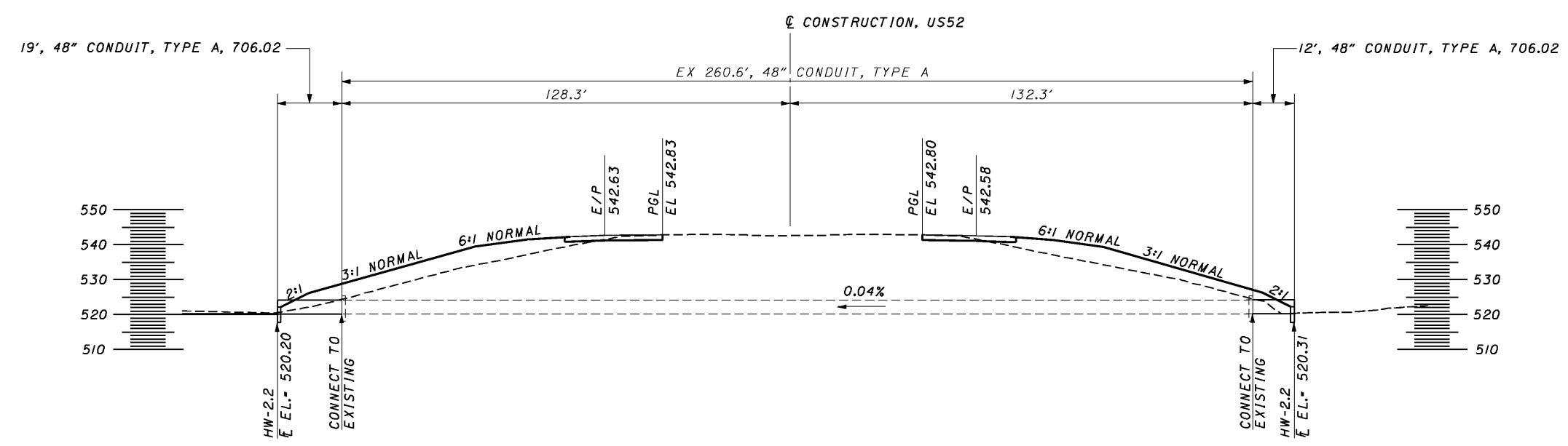
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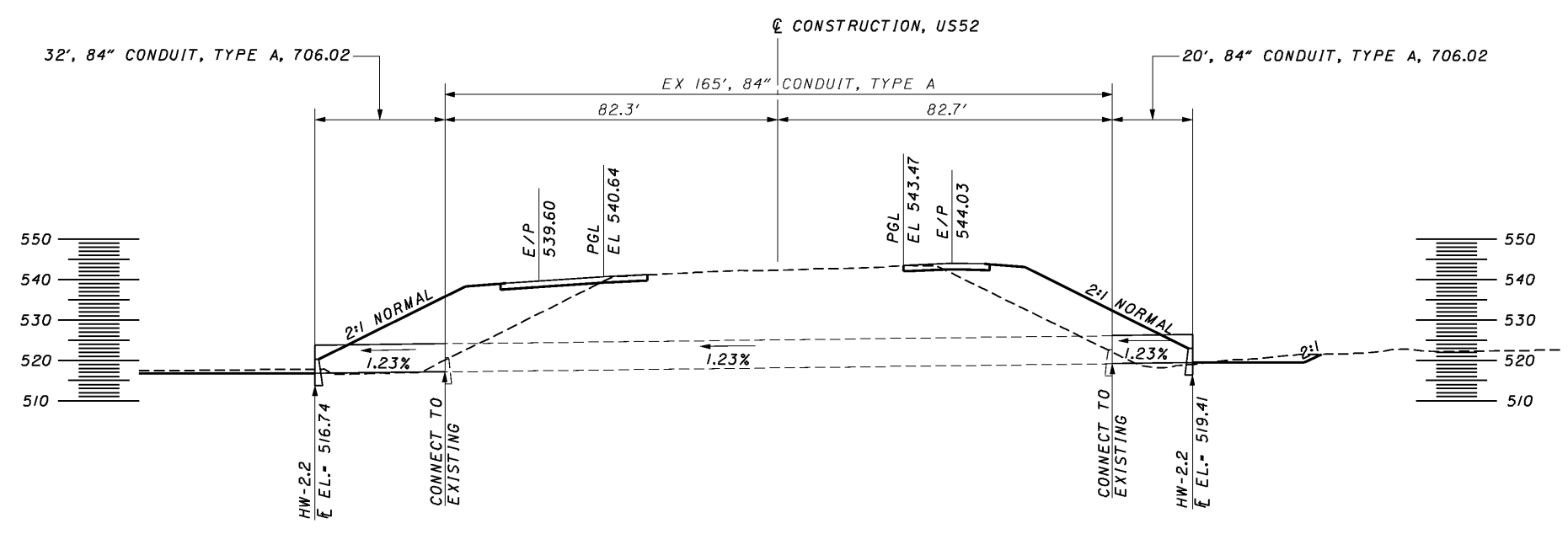
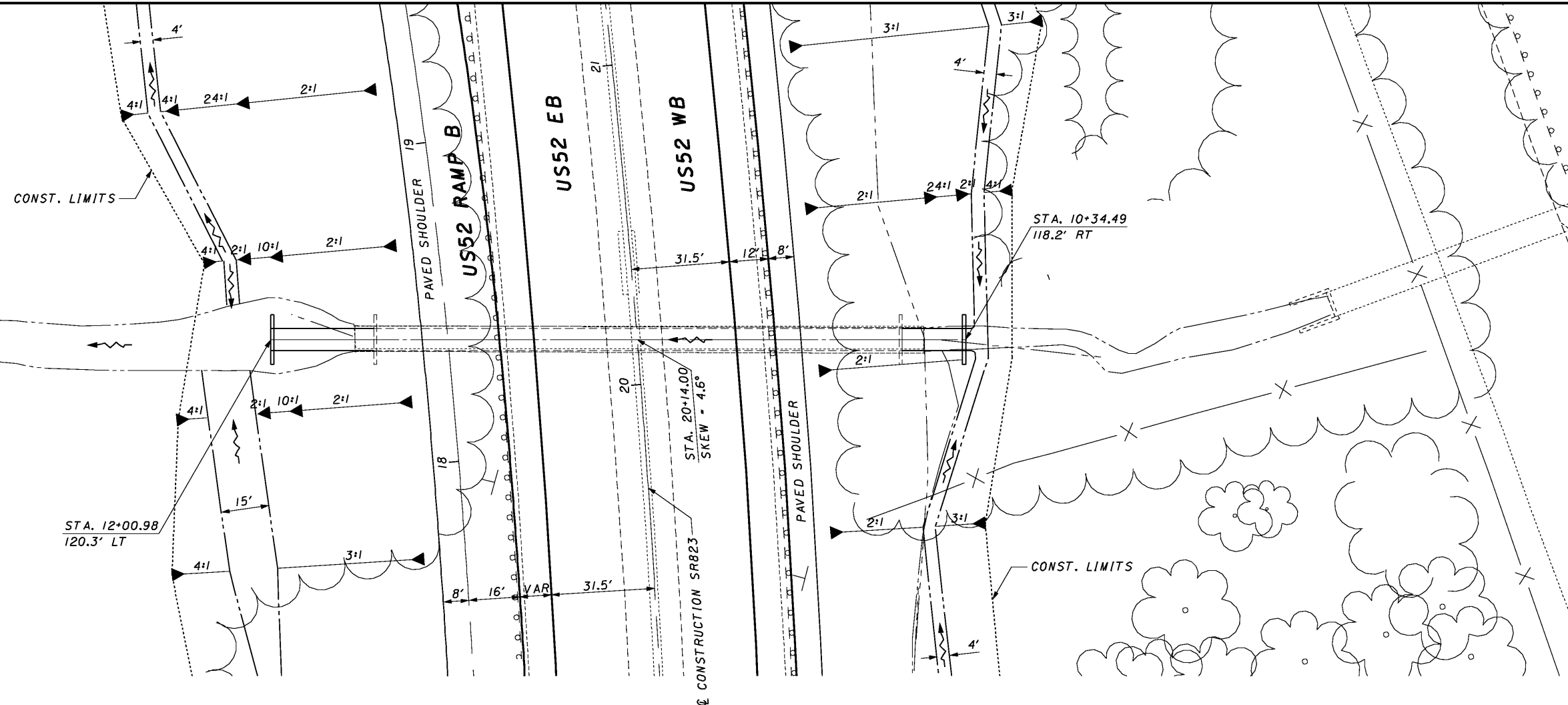


CALCULATED	MC
CHECKED	RN

**CULVERT DETAIL**  
**US52 STA. 11+17.00**

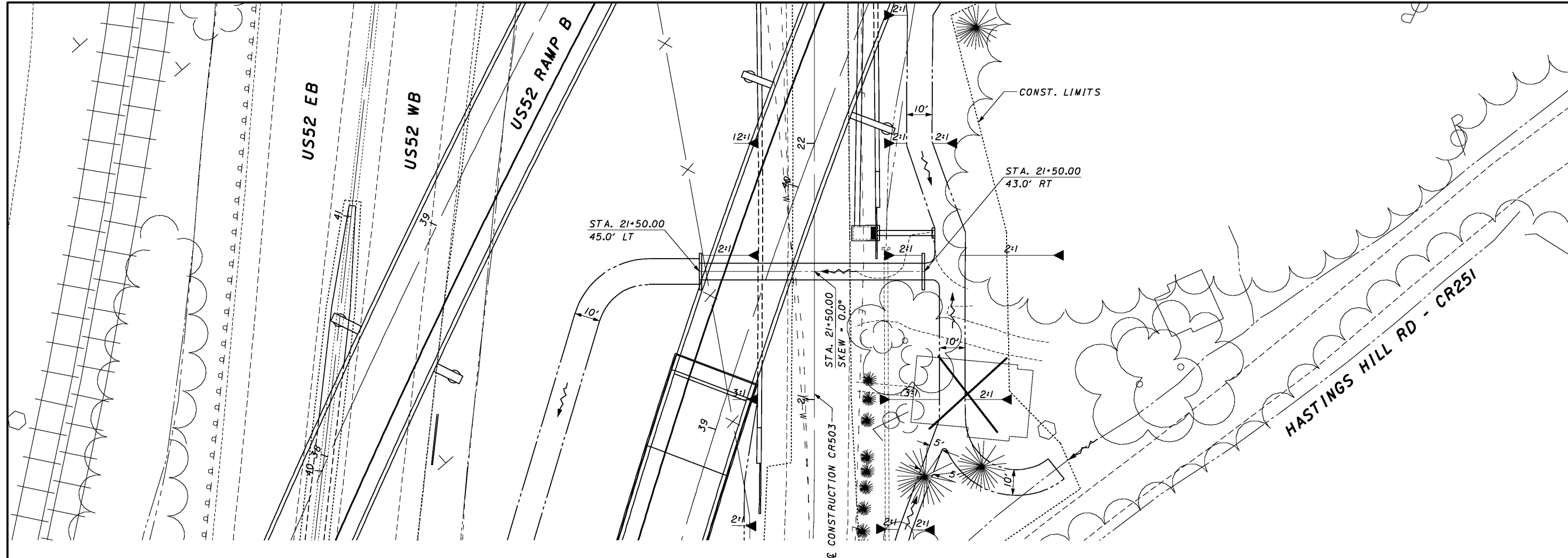


**SCI-823-0.00**

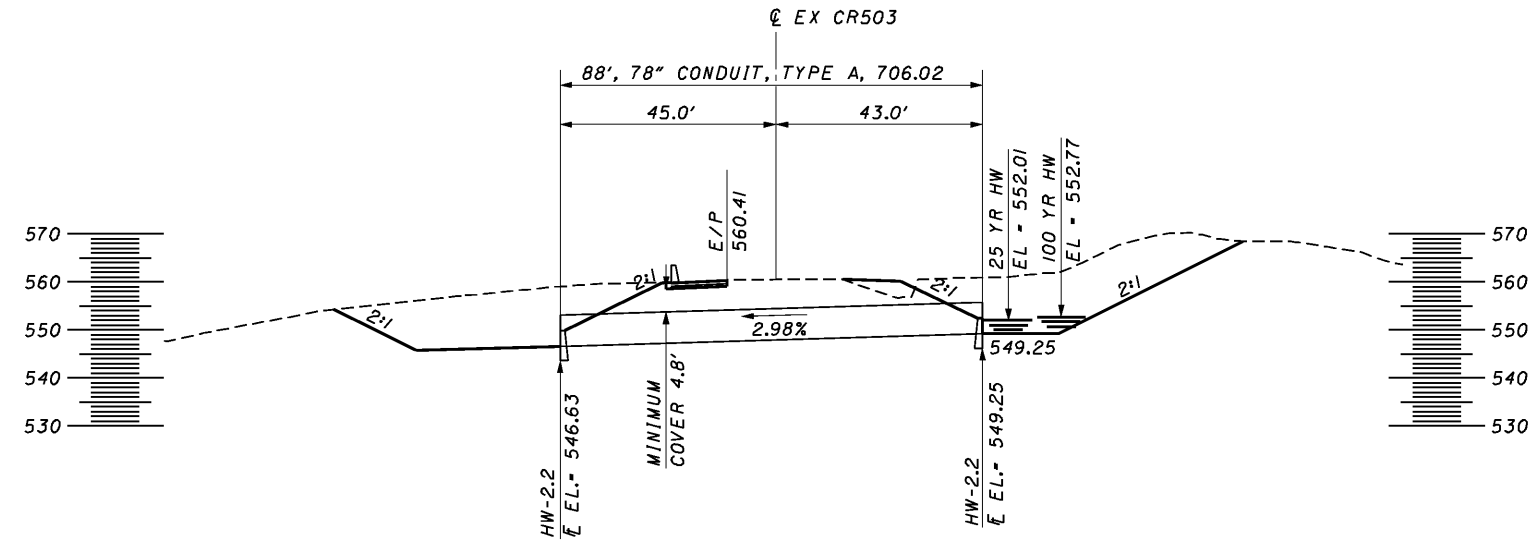


**CULVERT DETAIL**  
**US52 STA. 20+14.00**

**SCI-823-0.00**



HYDRAULIC DESIGN DATA	
DRAINAGE AREA	- 25.3 AC.
$Q_{25}$	- 61.5 CFS
$Q_{100}$	- 92.5 CFS
$HW_{25}$	- 552.01
$HW_{100}$	- 552.77
$V_{25}$	- 16.5 FPS
$V_{100}$	- 18.6 FPS



CALCULATED MC  
CHECKED RN

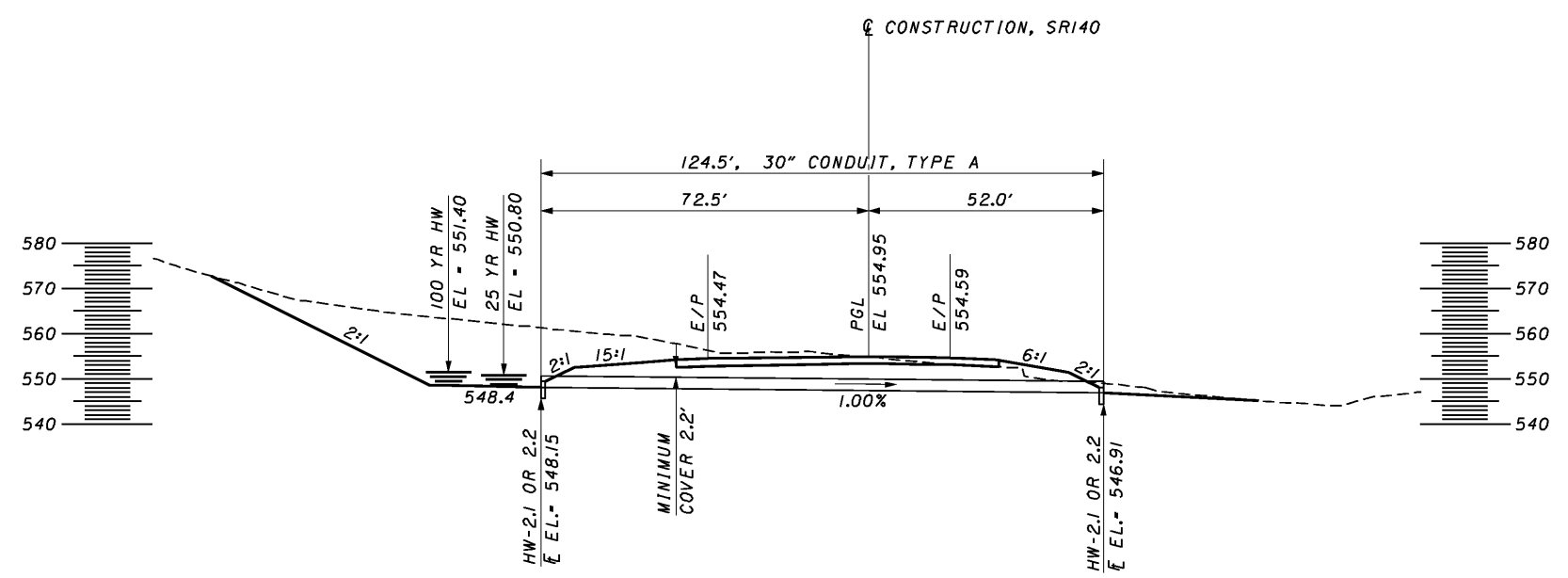
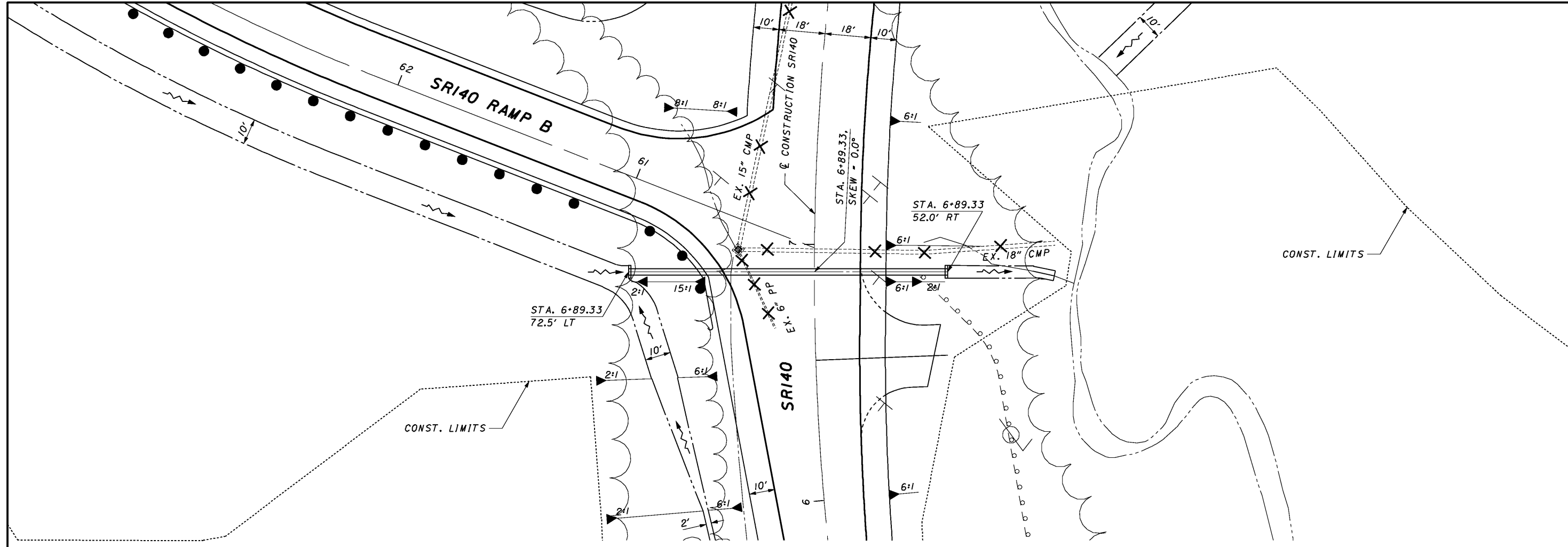
0 10 20 40  
HORIZONTAL SCALE IN FEET

**CULVERT DETAIL**  
**CR503 STA. 21+50.00**

**SCI-823-0.00**

758





HYDRAULIC DESIGN DATA	
DRAINAGE AREA = 6.5 AC.	
$Q_{25}$	= 20.4 CFS
$Q_{100}$	= 25.0 CFS
$HW_{25}$	= 550.80
$HW_{100}$	= 551.40
$V_{25}$	= 6.5 FPS
$V_{100}$	= 7.0 FPS

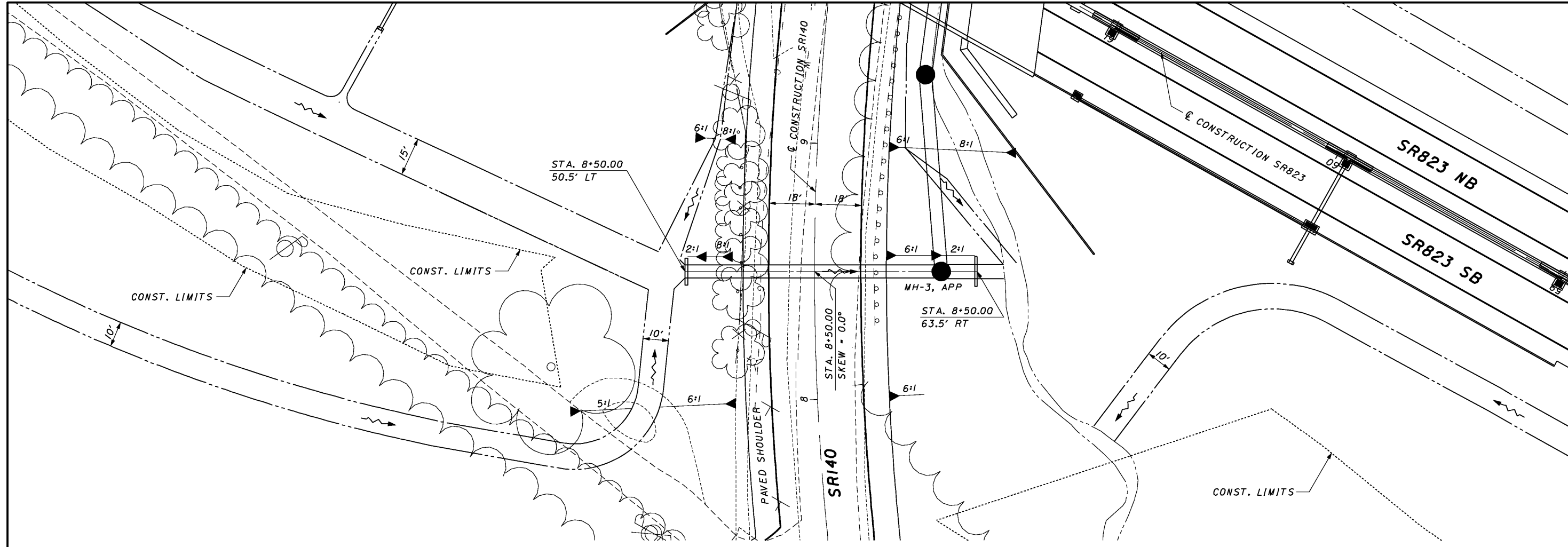
CALCULATED DL  
CHECKED RN

HORIZONTAL SCALE IN FEET

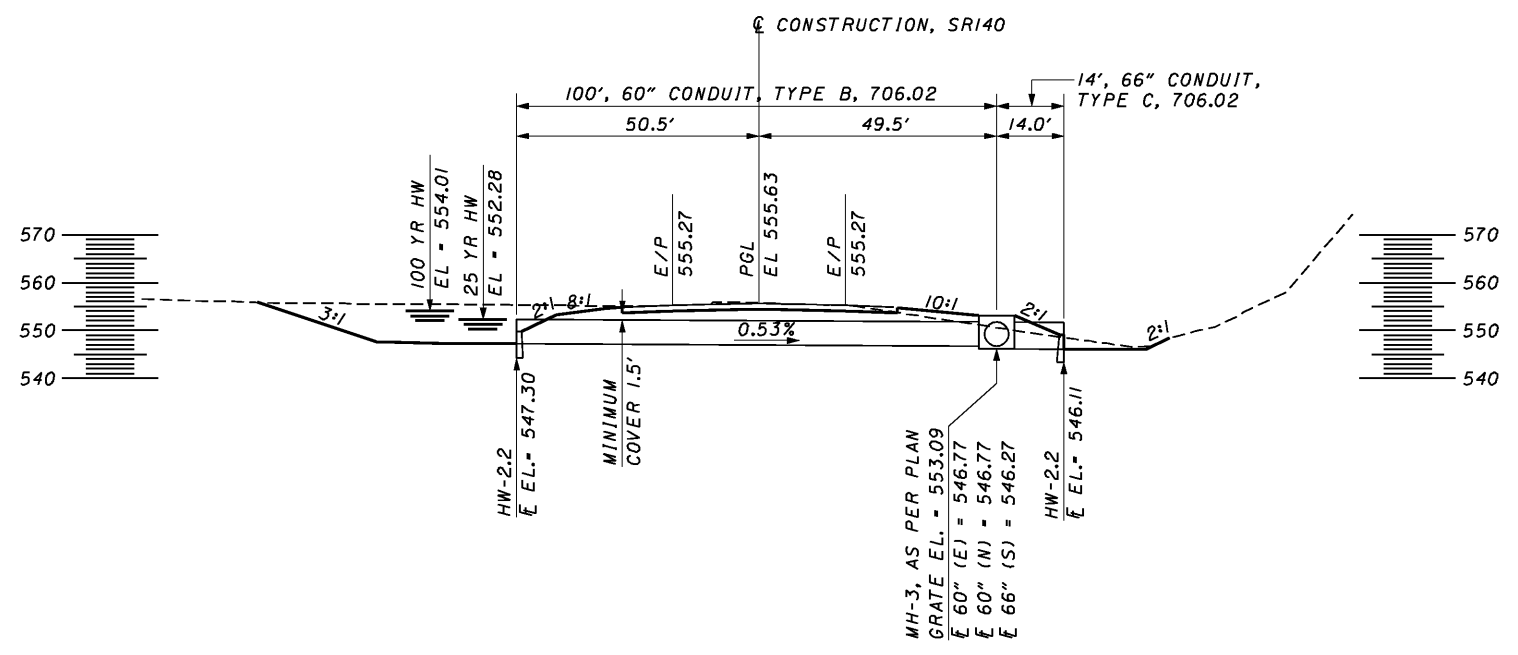
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**SR140 STA. 6+89.33**

**SCI-823-0.00**

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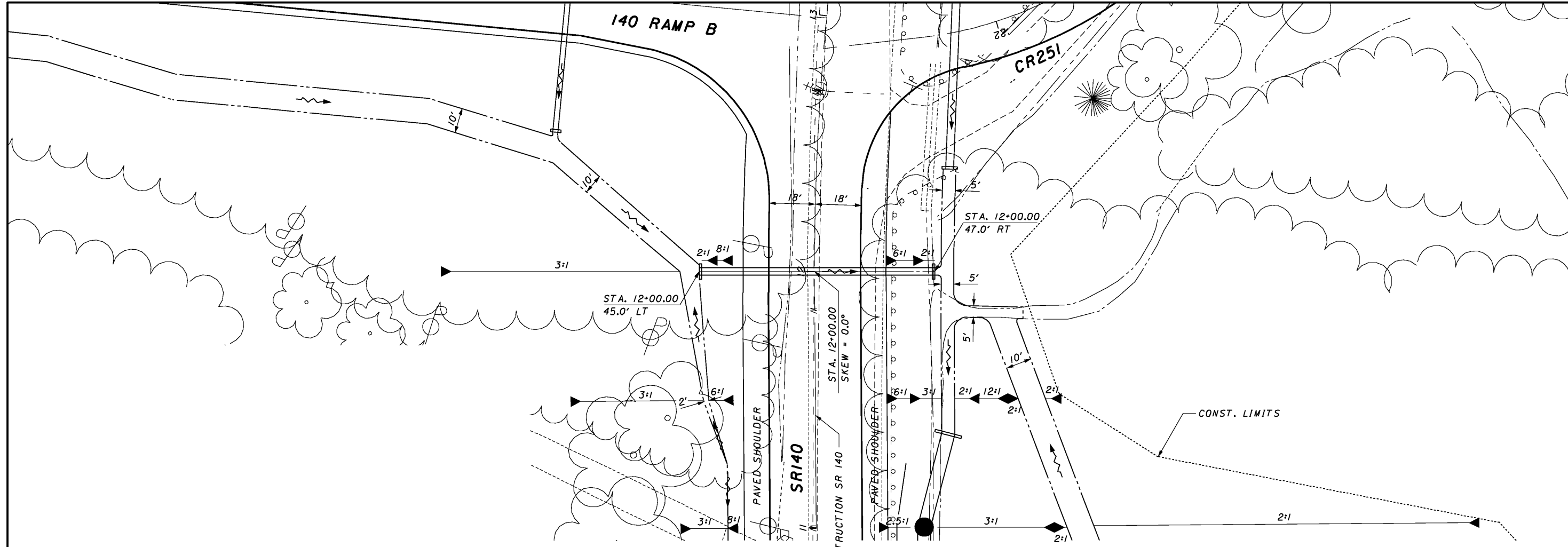


HYDRAULIC DESIGN DATA	
DRAINAGE AREA	= 101.5 AC.
$Q_{25}$	= 136.5 CFS
$Q_{100}$	= 199.9 CFS
$HW_{25}$	= 552.28
$HW_{100}$	= 554.01
$V_{25}$	= 11.2 FPS
$V_{100}$	= 11.9 FPS

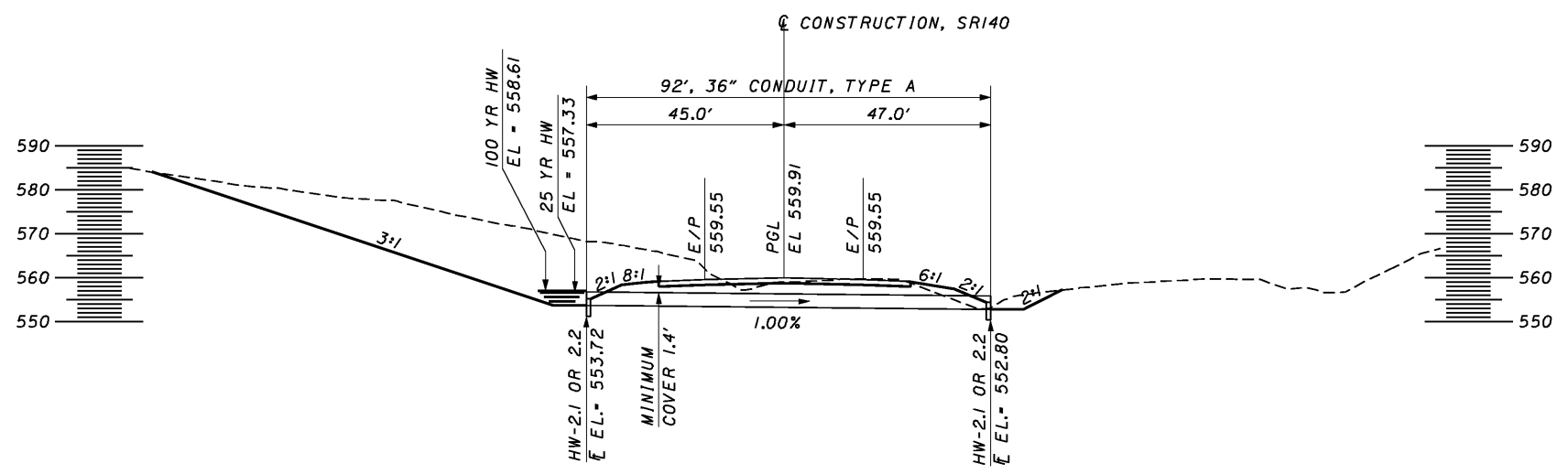


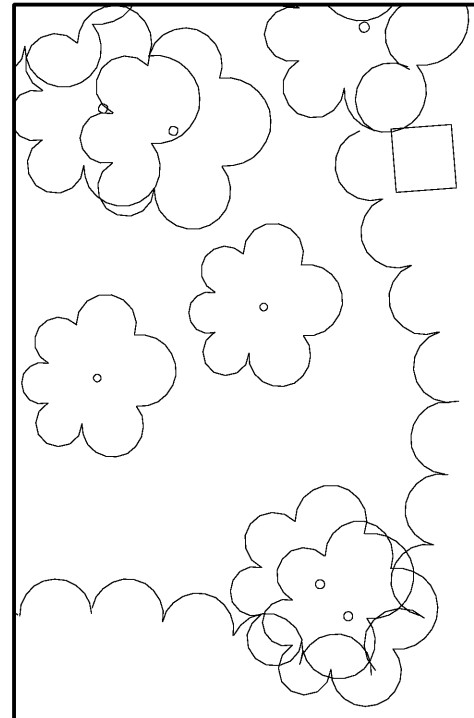
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**SR140 STA. 8+50.00**

**SCI-823-0.00**

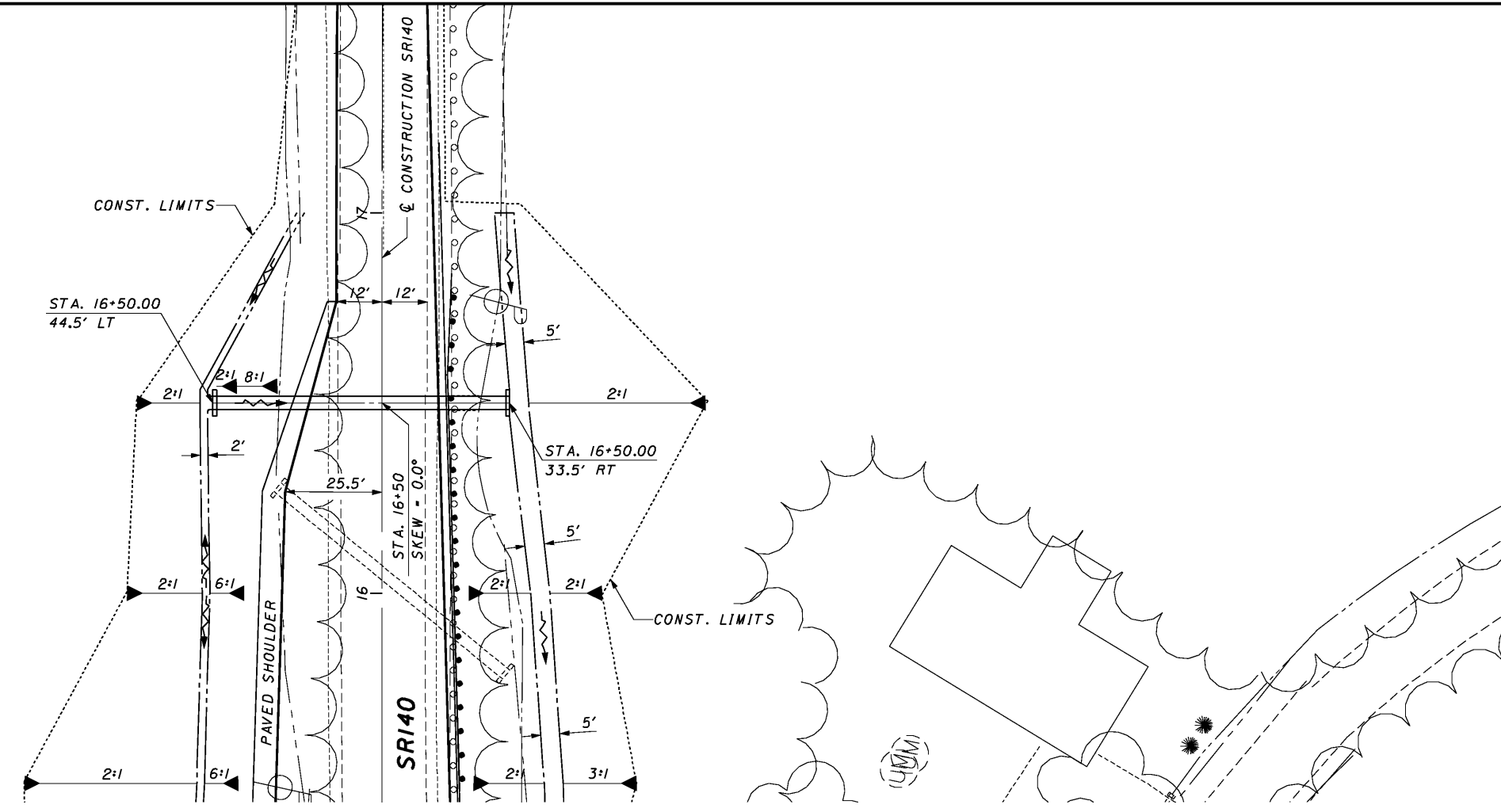
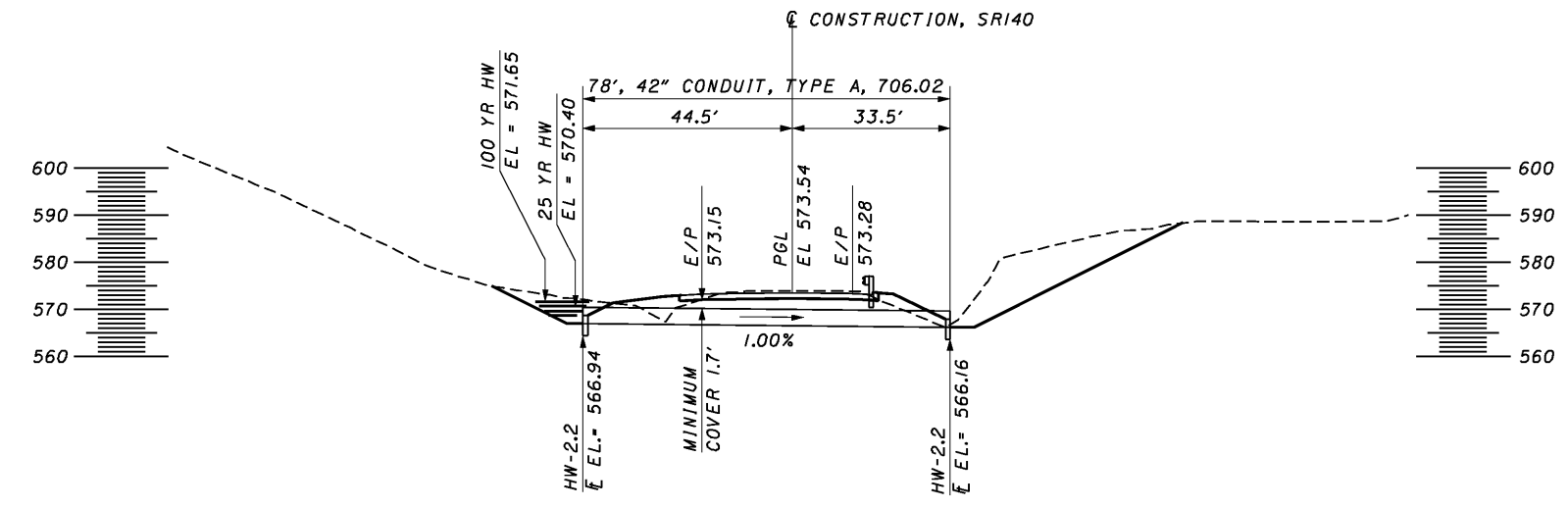


HYDRAULIC DESIGN DATA	
DRAINAGE AREA	- 7.9 AC.
$Q_{25}$	- 37.1 CFS
$Q_{100}$	- 45.5 CFS
$HW_{25}$	- 557.33
$HW_{100}$	- 558.61
$V_{25}$	- 7.5 FPS
$V_{100}$	- 8.2 FPS





HYDRAULIC DESIGN DATA	
DRAINAGE AREA - 28.1 AC.	
$Q_{25}$	- 55.5 CFS
$Q_{100}$	- 82.2 CFS
$HW_{25}$	- 570.40
$HW_{100}$	- 571.65
$V_{25}$	- 11.4 FPS
$V_{100}$	- 12.4 FPS



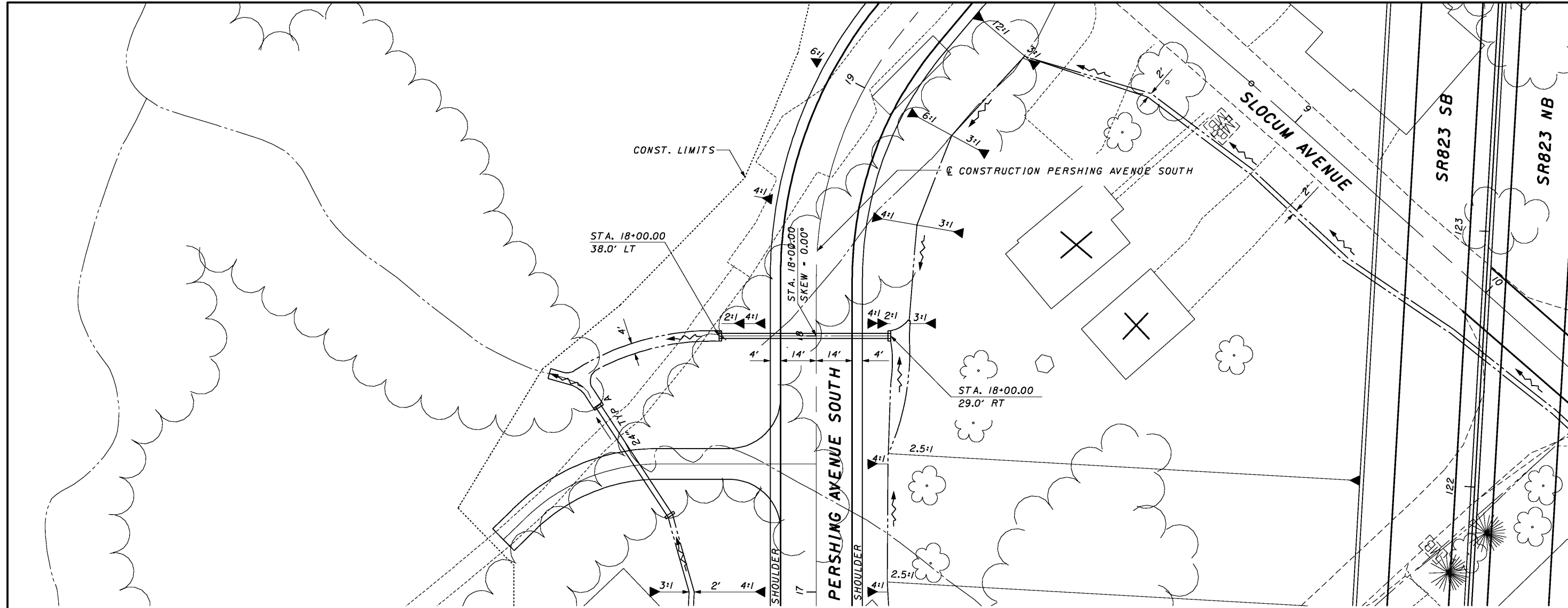
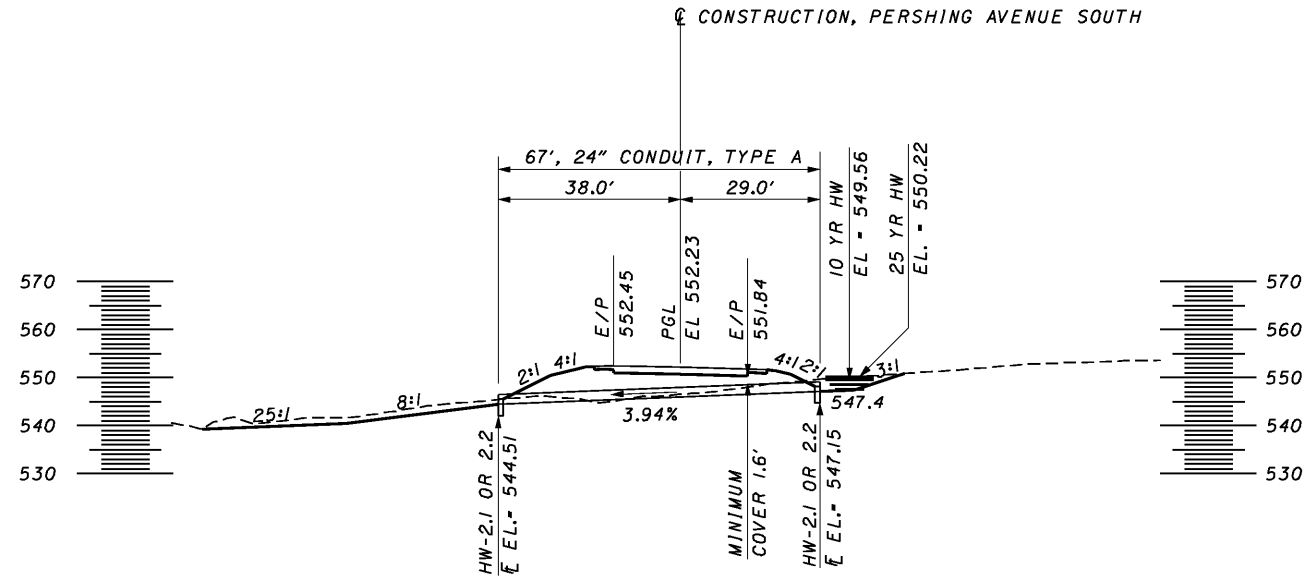
CALCULATED MC  
 CHECKED RN

**CULVERT DETAIL**  
**SRI140 STA. 16+50.00**

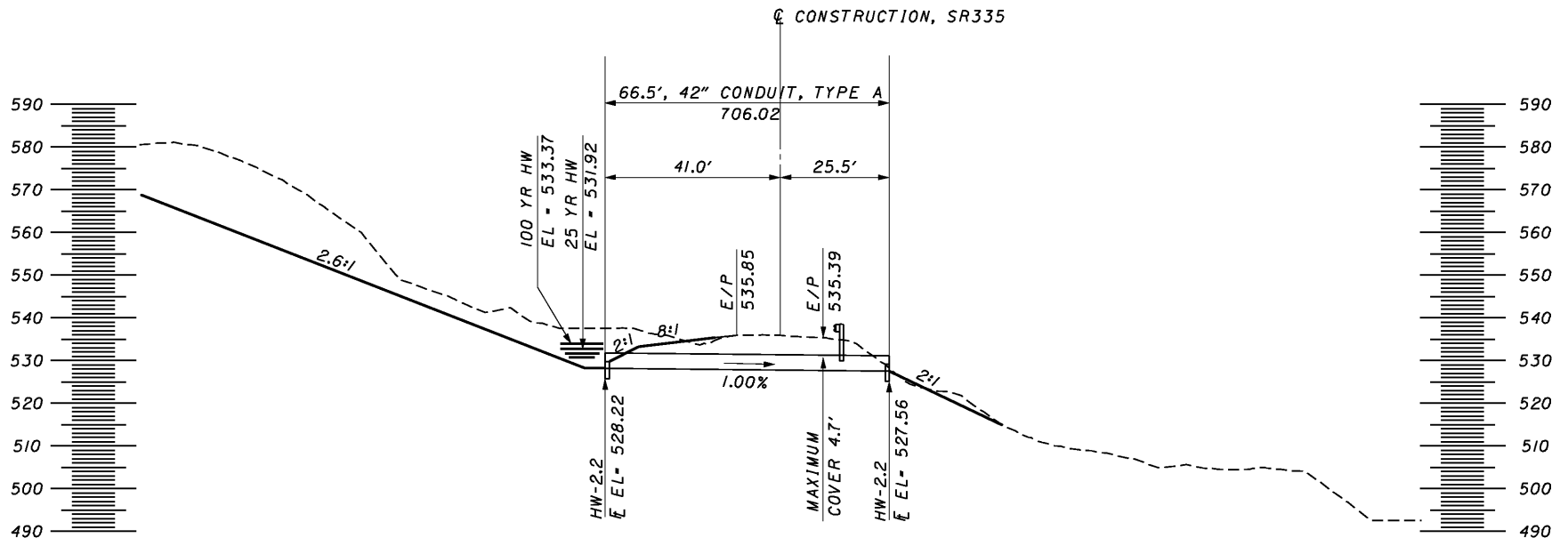
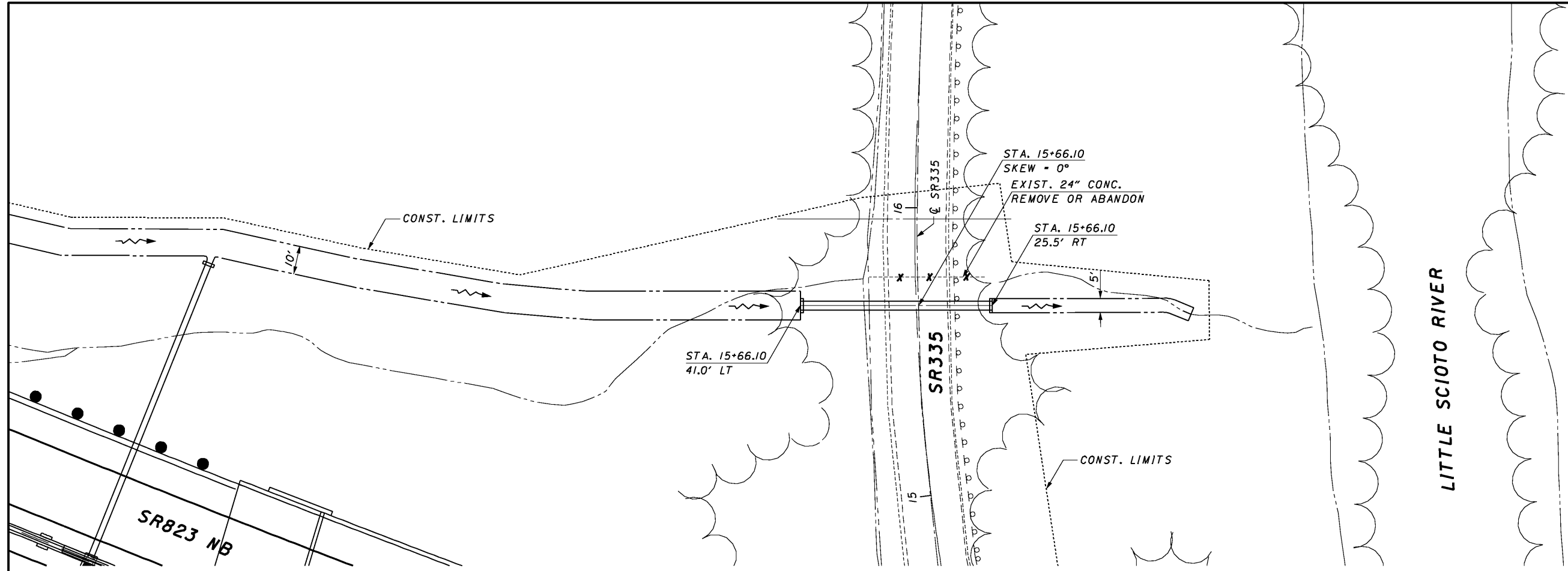




HYDRAULIC DESIGN DATA	
DRAINAGE AREA - 6.0 AC.	
$Q_{10}$	- 15.3 CFS
$Q_{25}$	- 19.0 CFS
$HW_{10}$	- 549.56
$HW_{25}$	- 550.22
$V_{10}$	- 8.0 FPS
$V_{25}$	- 8.4 FPS







HYDRAULIC DESIGN DATA	
DRAINAGE AREA	= 36.1 AC.
$Q_{25}$	= 61.3 CFS
$Q_{100}$	= 90.0 CFS
$HW_{25}$	= 531.92
$HW_{100}$	= 533.37
$V_{25}$	= 11.7 FPS
$V_{100}$	= 12.7 FPS

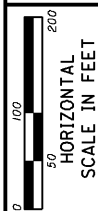
CALCULATED DL  
CHECKED RN

HORIZONTAL SCALE IN FEET

**CULVERT DETAIL**  
**SR335 STA. 15+66.10**

**SCI-823-0.00**



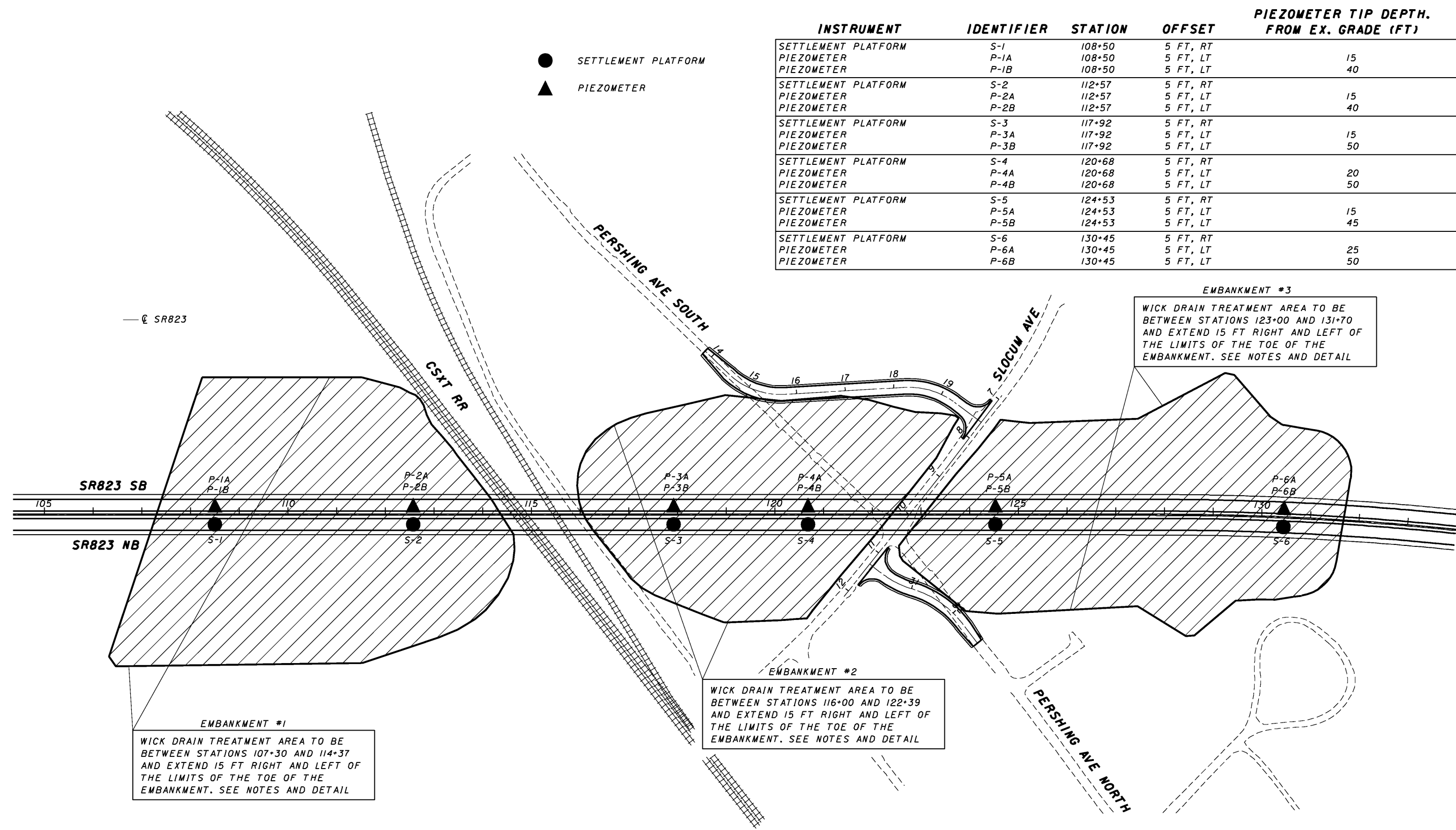


CHECKED: SJR  
 CHECKED: DAA

**WICK DRAIN AND INSTRUMENTATION PLAN**  
**EMBANKMENT STA. 107+30 TO 131+70**

**SCI-823-0.00**

INSTRUMENT	IDENTIFIER	STATION	OFFSET	PIEZOMETER TIP DEPTH. FROM EX. GRADE (FT)
SETTLEMENT PLATFORM	S-1	108+50	5 FT, RT	
PIEZOMETER	P-1A	108+50	5 FT, LT	15
PIEZOMETER	P-1B	108+50	5 FT, LT	40
SETTLEMENT PLATFORM	S-2	112+57	5 FT, RT	
PIEZOMETER	P-2A	112+57	5 FT, LT	15
PIEZOMETER	P-2B	112+57	5 FT, LT	40
SETTLEMENT PLATFORM	S-3	117+92	5 FT, RT	
PIEZOMETER	P-3A	117+92	5 FT, LT	15
PIEZOMETER	P-3B	117+92	5 FT, LT	50
SETTLEMENT PLATFORM	S-4	120+68	5 FT, RT	
PIEZOMETER	P-4A	120+68	5 FT, LT	20
PIEZOMETER	P-4B	120+68	5 FT, LT	50
SETTLEMENT PLATFORM	S-5	124+53	5 FT, RT	
PIEZOMETER	P-5A	124+53	5 FT, LT	15
PIEZOMETER	P-5B	124+53	5 FT, LT	45
SETTLEMENT PLATFORM	S-6	130+45	5 FT, RT	
PIEZOMETER	P-6A	130+45	5 FT, LT	25
PIEZOMETER	P-6B	130+45	5 FT, LT	50



**EMBANKMENT #1**  
 WICK DRAIN TREATMENT AREA TO BE BETWEEN STATIONS 107+30 AND 114+37 AND EXTEND 15 FT RIGHT AND LEFT OF THE LIMITS OF THE TOE OF THE EMBANKMENT. SEE NOTES AND DETAIL

**EMBANKMENT #2**  
 WICK DRAIN TREATMENT AREA TO BE BETWEEN STATIONS 116+00 AND 122+39 AND EXTEND 15 FT RIGHT AND LEFT OF THE LIMITS OF THE TOE OF THE EMBANKMENT. SEE NOTES AND DETAIL

**EMBANKMENT #3**  
 WICK DRAIN TREATMENT AREA TO BE BETWEEN STATIONS 123+00 AND 131+70 AND EXTEND 15 FT RIGHT AND LEFT OF THE LIMITS OF THE TOE OF THE EMBANKMENT. SEE NOTES AND DETAIL

	TREATMENT AREA			TOTAL
	EMBANKMENT #1	EMBANKMENT #2	EMBANKMENT #3	
TOTAL AREA (SQ. FT.)	376,204	255,315	330,302	961,821
AVERAGE INSTALLED DEPTH (FT)	80	75	65	
WICK DRAIN SPACING OPTION (FT)	TOTAL LINEAR FEET			TOTAL
5	1,390,160	884,475	991,640	3,266,275
7	709,120	451,200	505,895	1,666,215
9	429,040	273,000	306,085	1,008,125

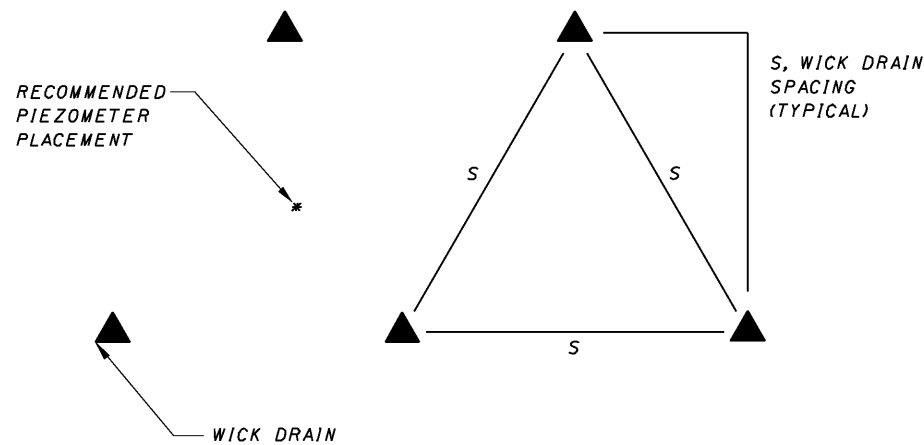
g:\c0003\0064\Road\PHASE\_3\171366\DWG\SHI  
 1/31/2008 9:54:44 AM

**NOTES**

- PLACE 3 FEET OF ODOT ITEM 703.02 BEFORE THE INSTALLATION OF THE WICK DRAINS. WICK DRAINS TO BE INSTALLED PRIOR TO EMBANKMENT CONSTRUCTION.
- 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.
- THE SAND SHALL NOT CONTAIN ANY ORGANIC OR OTHER DELETERIOUS MATERIALS AND SHALL NOT BE FROZEN WHEN PLACED.
- 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.
- 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.
- SETTLEMENT PLATES SHALL BE GEOKON MODEL 4600 OR EQUIVALENT.
- VIBRATING WIRE PIEZOMETERS SHALL BE SLOPE INDICATOR MODEL 52611099 OR EQUIVALENT.
- THE MAINLINE EMBANKMENTS FROM STATION 105+75 TO 131+54 MUST BE BUILT USING STAGED CONSTRUCTION. THE FOUNDATION PORE WATER PRESSURES AND SETTLEMENTS SHALL BE MONITORED. THE MAXIMUM HEIGHT OF THE INITIAL STAGES SHALL FOLLOW THE HEIGHTS OUTLINED IN TABLE 1. IF AT ANY TIME, THE FOUNDATION PORE WATER PRESSURE HEAD IS EQUIVALENT TO OR HIGHER THAN THE MAXIMUM LEVEL CITED IN TABLE 1, THEN EMBANKMENT CONSTRUCTION SHALL HALT IMMEDIATELY. CONSTRUCTION MAY RESUME AFTER PORE WATER PRESSURES HAVE DISSIPATED. A WAITING PERIOD WILL BE REQUIRED BETWEEN STAGES TO ALLOW PORE PRESSURES TO DISSIPATE PRIOR TO PLACING SUBSEQUENT STAGES. THE REQUIRED WAITING PERIOD FOR SELECTED WICK DRAIN SPACING OPTIONS IS OUTLINED IN TABLE 1.
- 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.
- 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.

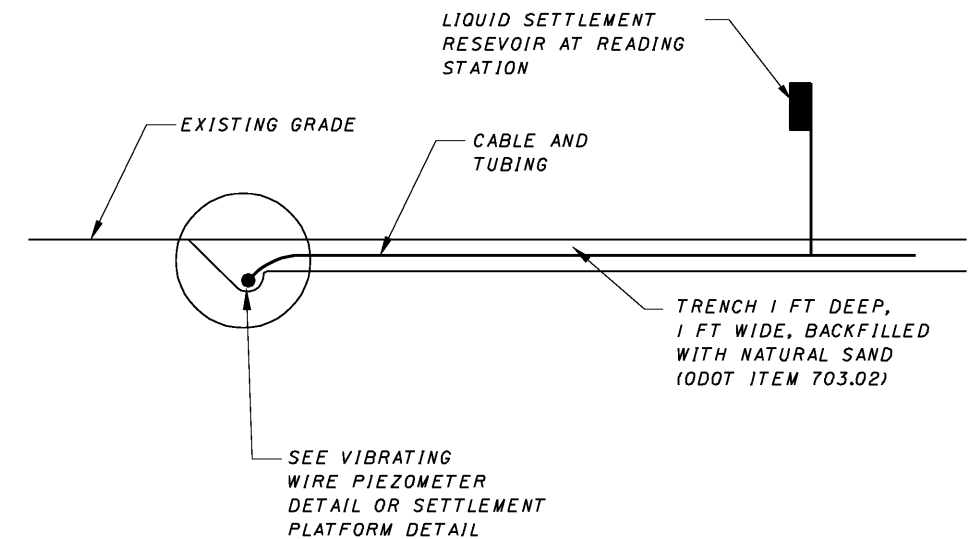
**DETAIL "A"**

WICK DRAIN TYPICAL LAYOUT-PLAN VIEW (NOT TO SCALE)



**DETAIL "B"**

INSTRUMENTATION DETAILS (NOT TO SCALE)

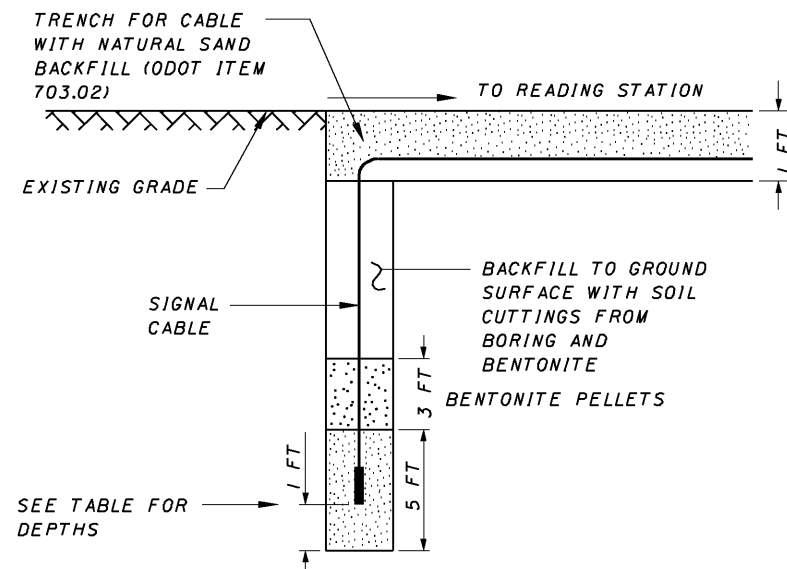


**TABLE 1** -STAGED CONSTRUCTION DETAILS

EMBANKMENT SECTION, APPROXIMATE STATIONS	MAX CONSTRUCTION STAGE	MAX. PORE PRESSURE, ABOVE EXISTING GROUND SURFACE	REQUIRED WAITING PERIOD		
			WICK DRAIN SPACING		
			5 FT	7 FT	9 FT
105+75 TO 114+34	35 FT	15 FT	30 DAYS	60 DAYS	90 DAYS
116+23 TO 122+42	35 FT	15 FT	30 DAYS	55 DAYS	85 DAYS
123+09 TO 131+54	30 FT	13 FT	35 DAYS	60 DAYS	95 DAYS

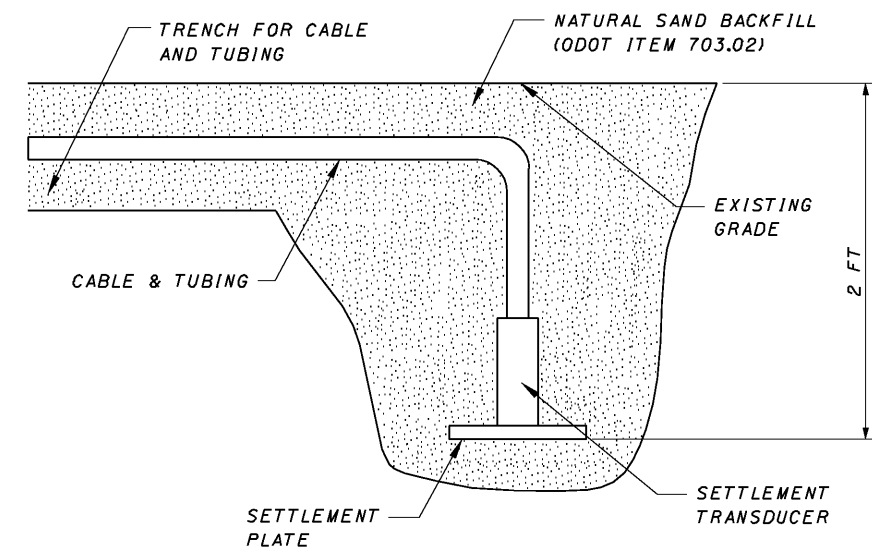
**VIBRATING WIRE PIEZOMETER**

(NOT TO SCALE)



**SETTLEMENT PLATFORM DETAIL**

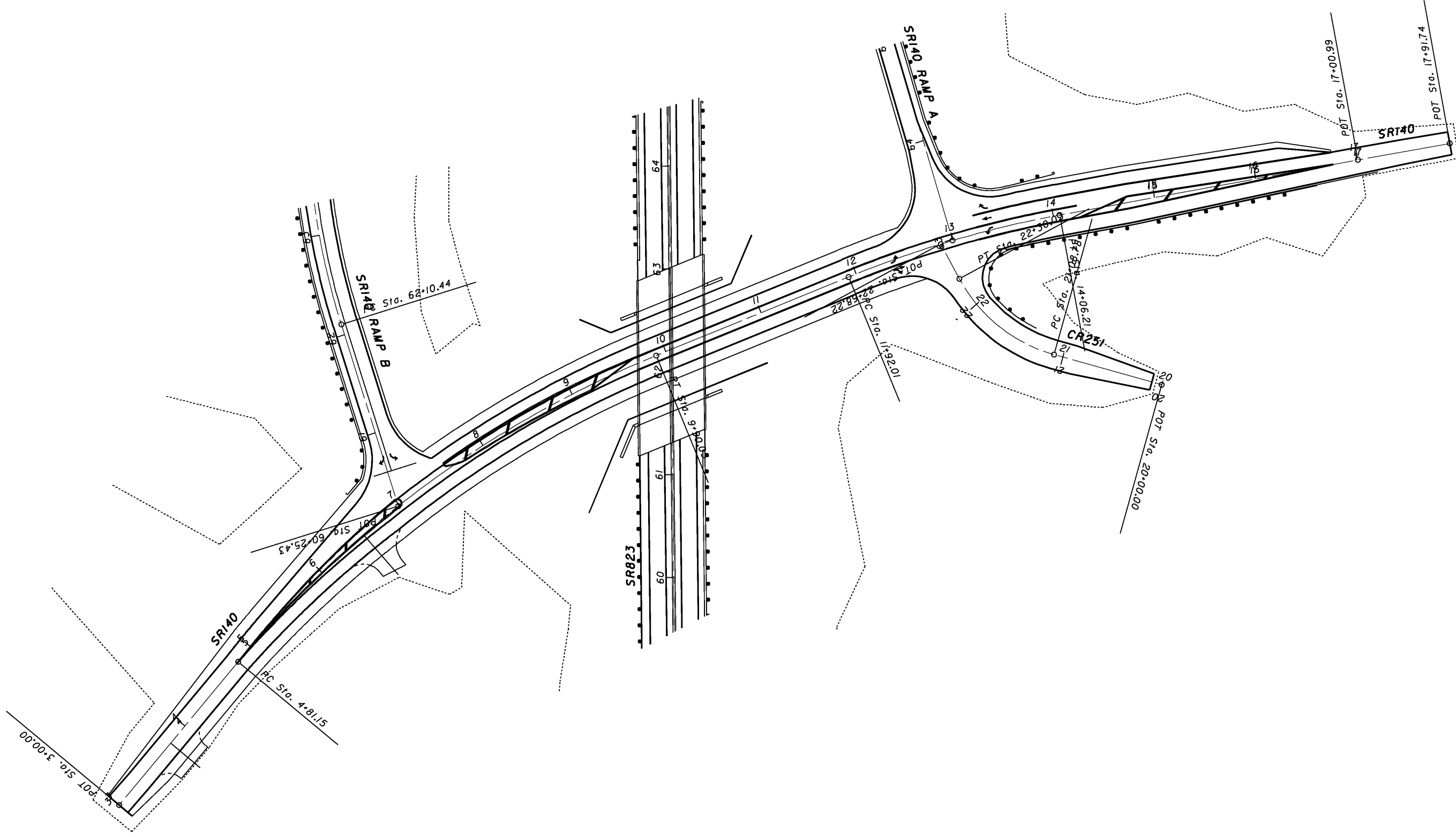
(NOT TO SCALE)



CALCULATED  
SJR  
CHECKED  
DAA

WICK DRAIN AND INSTRUMENTATION  
NOTES AND DETAILS

SCI-823-0.00



**NOTES:**

1. ALL SHEETS WITH PLAN DIMENSIONS ARE SHOWN HORIZONTAL.
2. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
3. THE PROPOSED PROFILE GRADE IS WITHIN BRIDGE LIMITS. SEE ROADWAY PLANS FOR PAVEMENT ELEVATIONS BEYOND BRIDGE LIMITS.

**HORIZONTAL CURVE DATA**

CURVE B-2  
 P.I. STA. = 42+39.68  
 DELTA = 35°28'24" (RT)  
 Dc = 1°36'00"  
 R = 3,580.99'  
 Ls = 200.00'  
 Theta = 1°36'00"  
 LT = 133.34'  
 ST = 66.67'  
 DELTAc = 32°16'24" (RT)  
 Lc = 2,017.08'  
 Ts = 1,245.51'  
 Es = 179.20'

**700' VERT. CURVE DATA**  
 P.V.I. STA. = 43+20.00  
 P.V.I. ELEV. = 598.98  
 G<sub>1</sub> = +3.19%  
 G<sub>2</sub> = -0.87%

BENCHMARK 1	BENCHMARK 2
(TO BE PROVIDED LATER)	(TO BE PROVIDED LATER)

**TRAFFIC DATA**

RAMP US52 B

CURRENT YEAR ADT (2010) - 6700  
 DESIGN YEAR ADT (2030) - 10500  
 CURRENT YEAR ADTT (2010) - 938  
 DESIGN YEAR ADTT (2030) - 1470

**PROPOSED STRUCTURE**

TYPE: 5 SPAN CONTINUOUS STEEL PLATE GIRDER A709  
 GRADE 50W, DOG LEGGED AT SPLICES, WITH  
 COMPOSITE REINFORCED CONCRETE DECK SUPPORTED  
 ON INTEGRAL PIER AND STUB ABUTMENTS FOUNDED  
 ON PILES AND MSE WALL EMBANKMENTS

SPANS: 152'-6", 152'-6", 145'-0", 142'-0", 141'-6"  
 (ALONG BASELINE RAMP B)

ROADWAY: 30'-0" TOE TO TOE OF PARAPETS  
 LOADING: HS-25 (CASE 1) AND ALTERNATE MILITARY  
 LOADING, FWS-60 PSF

SKEW: 00°00'00" WITH RESPECT TO THE  
 REFERENCE LINE (ALSO SEE FRAMING PLAN)

SUPERELEVATION: 0.043 FT/FT

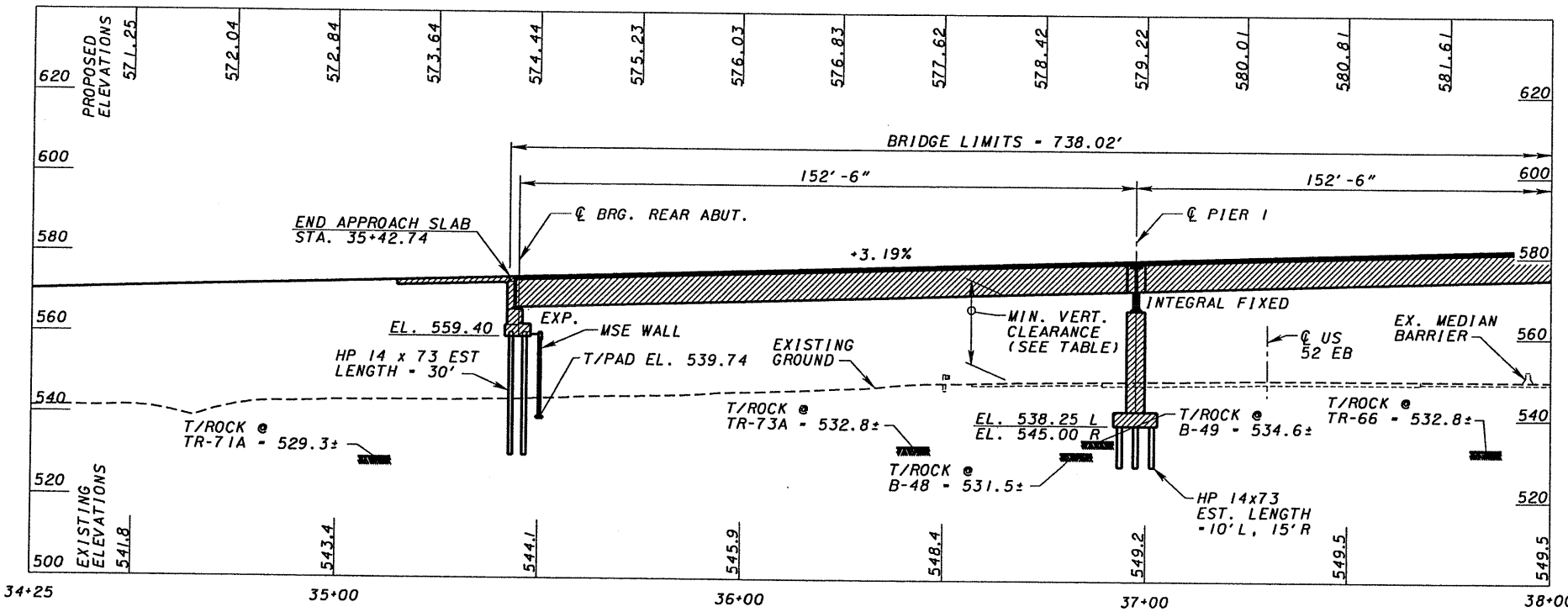
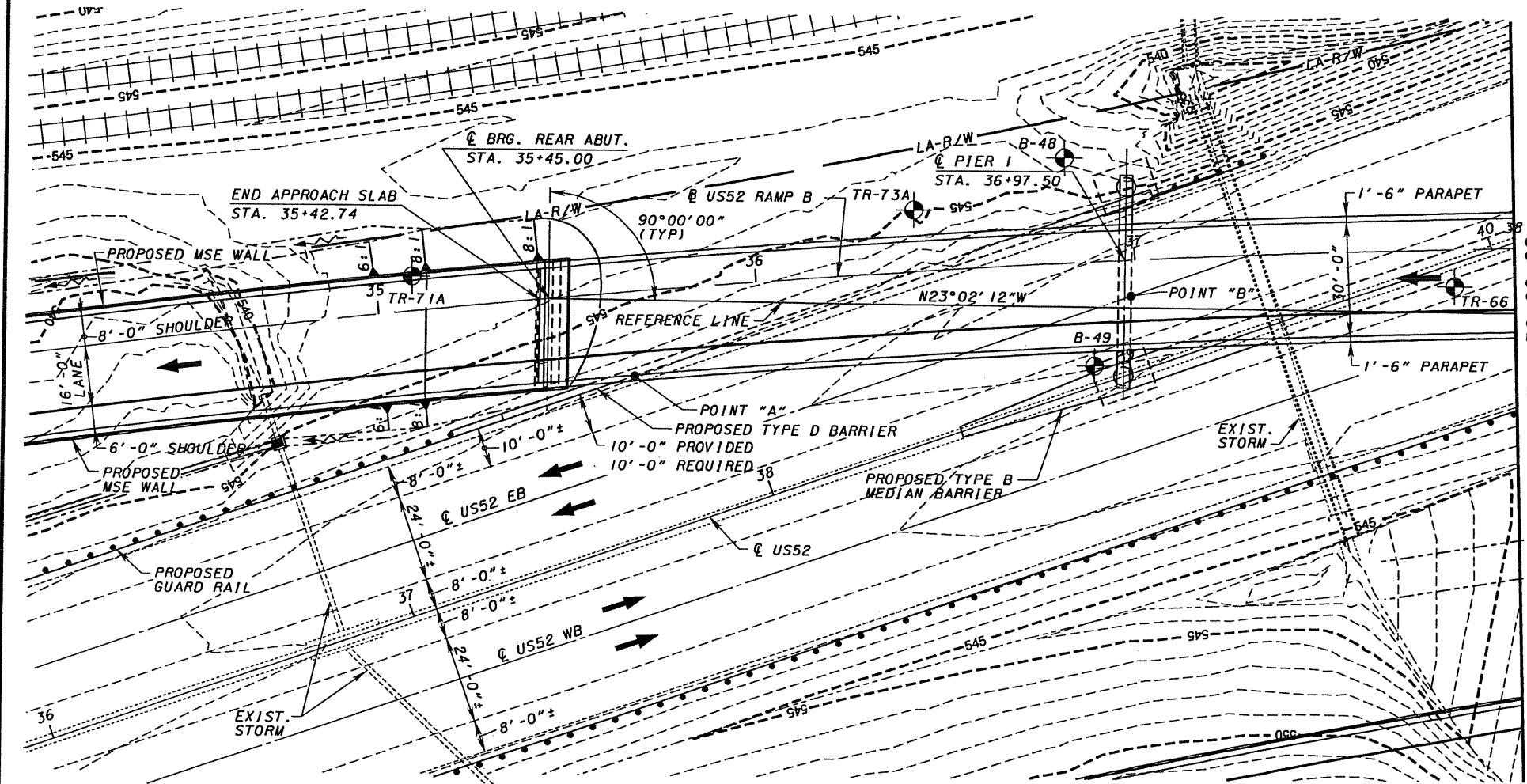
CROWN:  
 ALIGNMENT: 1°36'00" CURVE TO THE RIGHT  
 WEARING SURFACE: MONOLITHIC CONCRETE  
 APPROACH SLABS: AS-1-81 (30' LONG)  
 LATITUDE: 38°44'49"N  
 LONGITUDE: 82°52'18"W

**PLAN**

**TABLE OF VERTICAL CLEARANCES**

LOCATION	"A"	"B"	"C"	"D"	"E"
PROPOSED	17.97'	18.66'	22.94'	17.85'	24.38'
PREFERRED	17.0'	17.0'	17.0'	17.0'	17.0'

MATCH LINE STA. 38+00.00

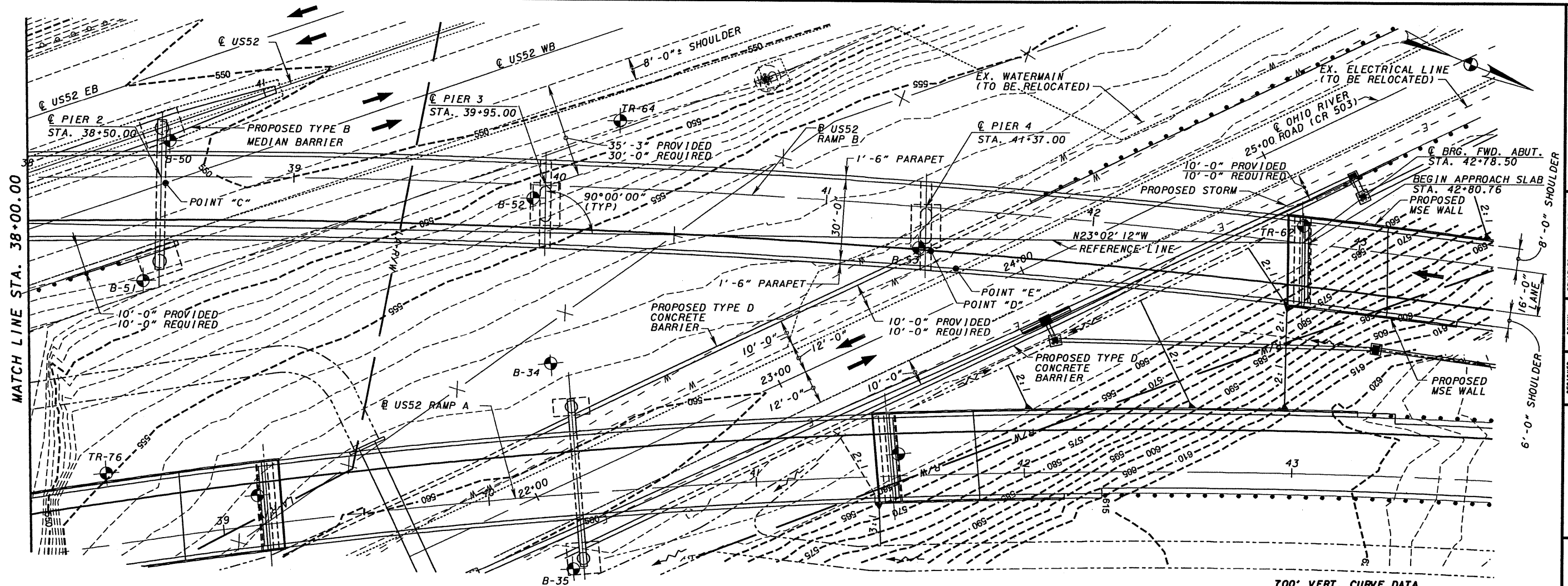


**PROFILE ALONG @ RAMP US52 B**

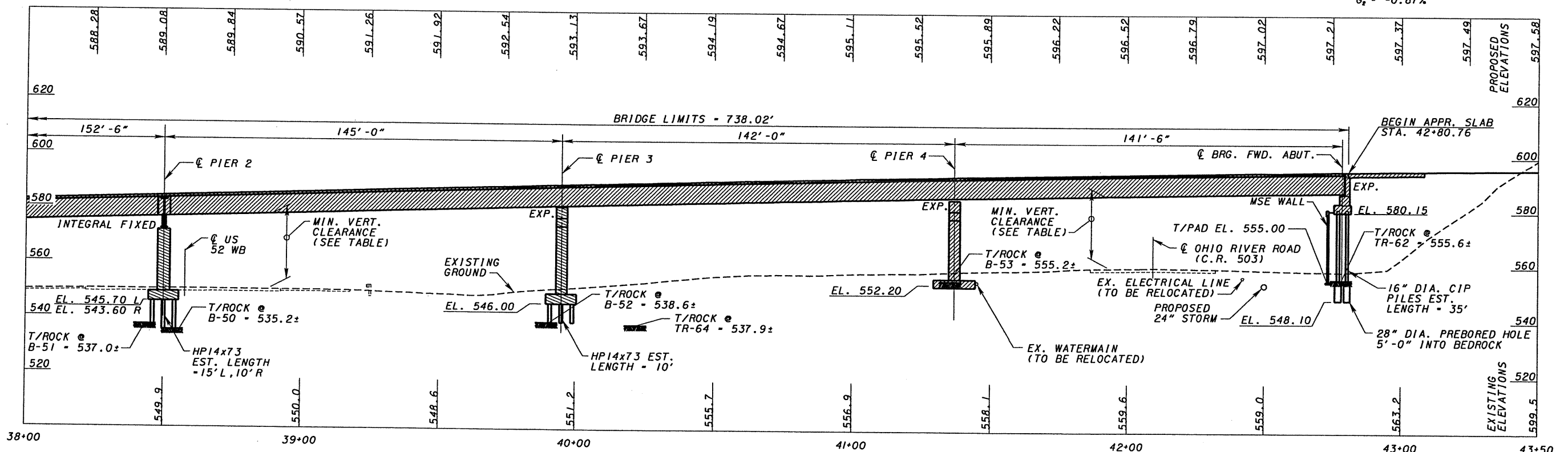
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DESIGNED BY: MTN  
 CHECKED BY: PJP  
 DRAWN BY: JDG  
 REVIEWED BY: MSL  
 DATE: 09/26/07  
 STRUCTURE FILE NUMBER: 7306261  
 SCIO TO COUNTY STA. 35+42.74  
 STA. 42+80.76  
 SITE PLAN  
 BRIDGE NO. SCI-823-0067L  
 US52 RAMP B TO SOUTHBOUND SR823  
 SCI-823-0.00  
 PID 77366  
 1/19  
 778  
 847





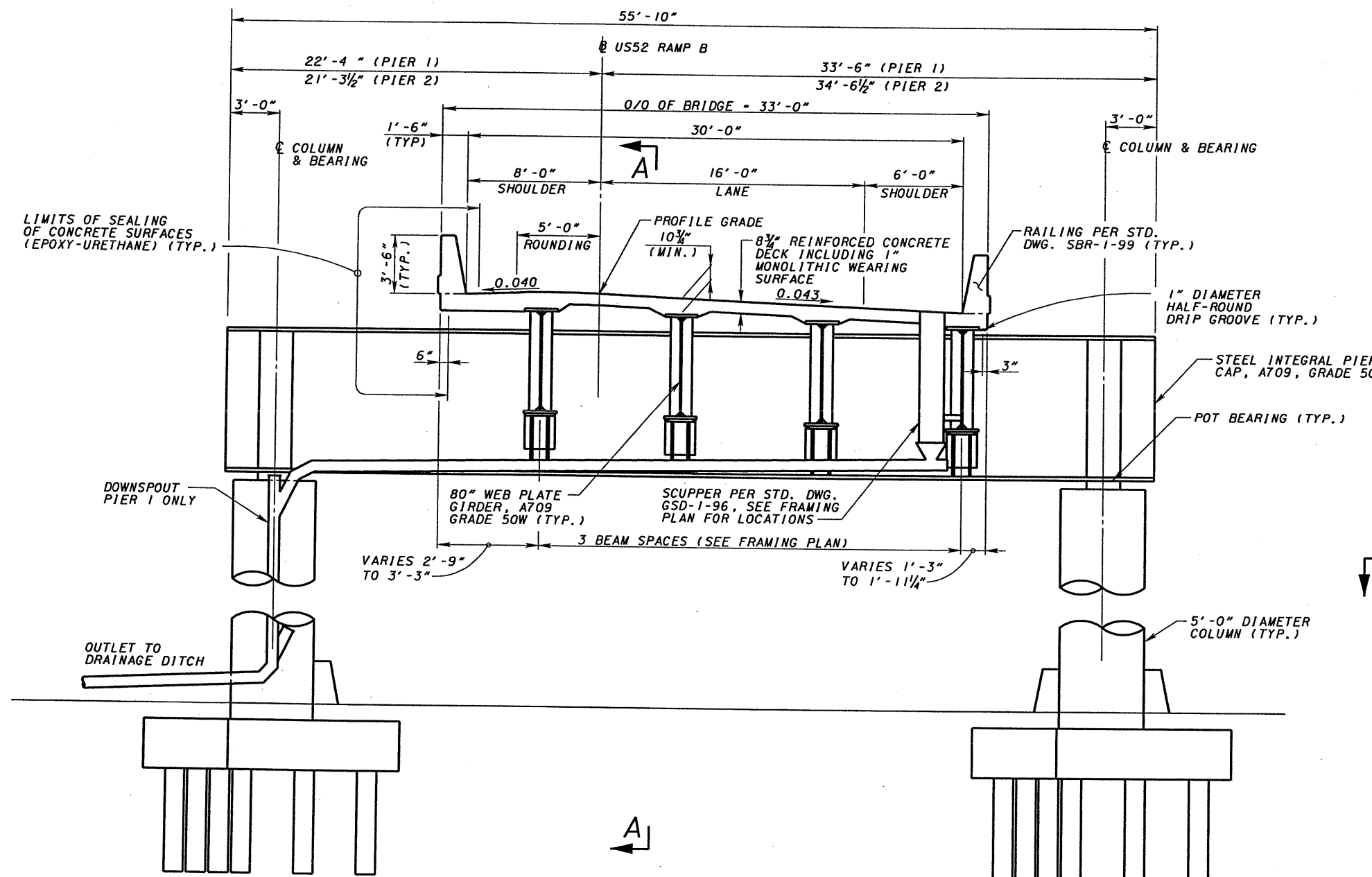
**100' VERT. CURVE DATA**  
 P.V.I. STA. = 43+20.00  
 P.V.I. ELEV. = 598.98  
 G<sub>1</sub> = +3.19%  
 G<sub>2</sub> = -0.87%



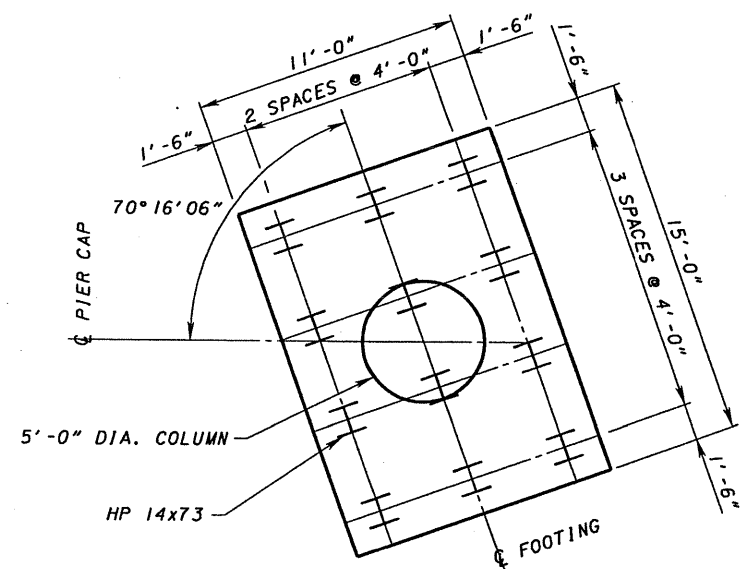
**PROFILE ALONG B RAMP US52 B**

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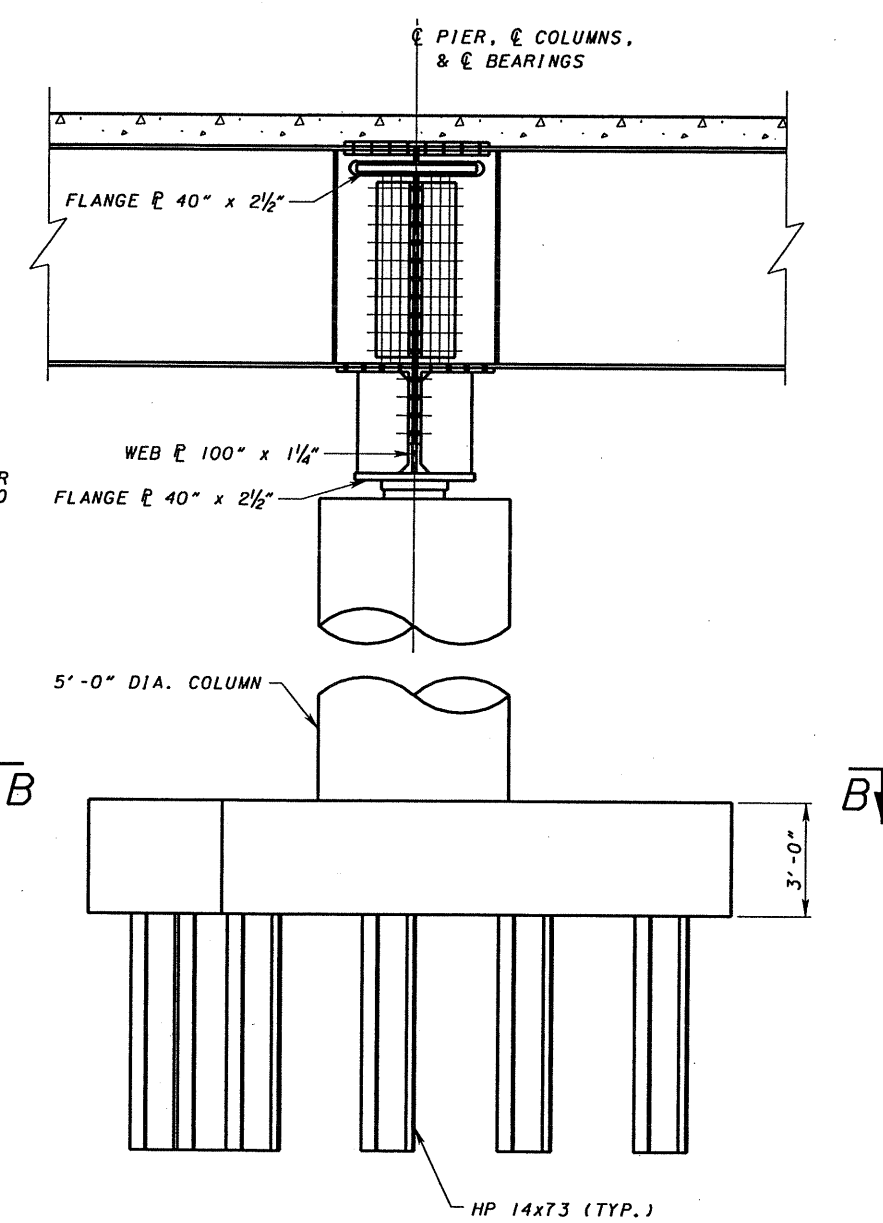
	DESIGN AGENCY	DATE	REVIEWED	DRAWN	DESIGNED	SCIO TO COUNTY
	Systems Inc.	09/26/07	MSL	JDG	MTN	STA. 35+42.74
		STRUCTURE FILE NUMBER	REVISED	CHECKED	PJP	STA. 42+80.76
		7306261				
<b>SITE PLAN</b>						
BRIDGE NO. SCI-823-00671						
US52 RAMP B TO SOUTHBOUND SR823						
SCI-823-0.00						
PID 77366						
2 / 19						



**ELEVATION**  
(PIER 1 SHOWN LOOKING UP STATION)  
(PIER 2 SIMILAR)



**SECTION B-B**



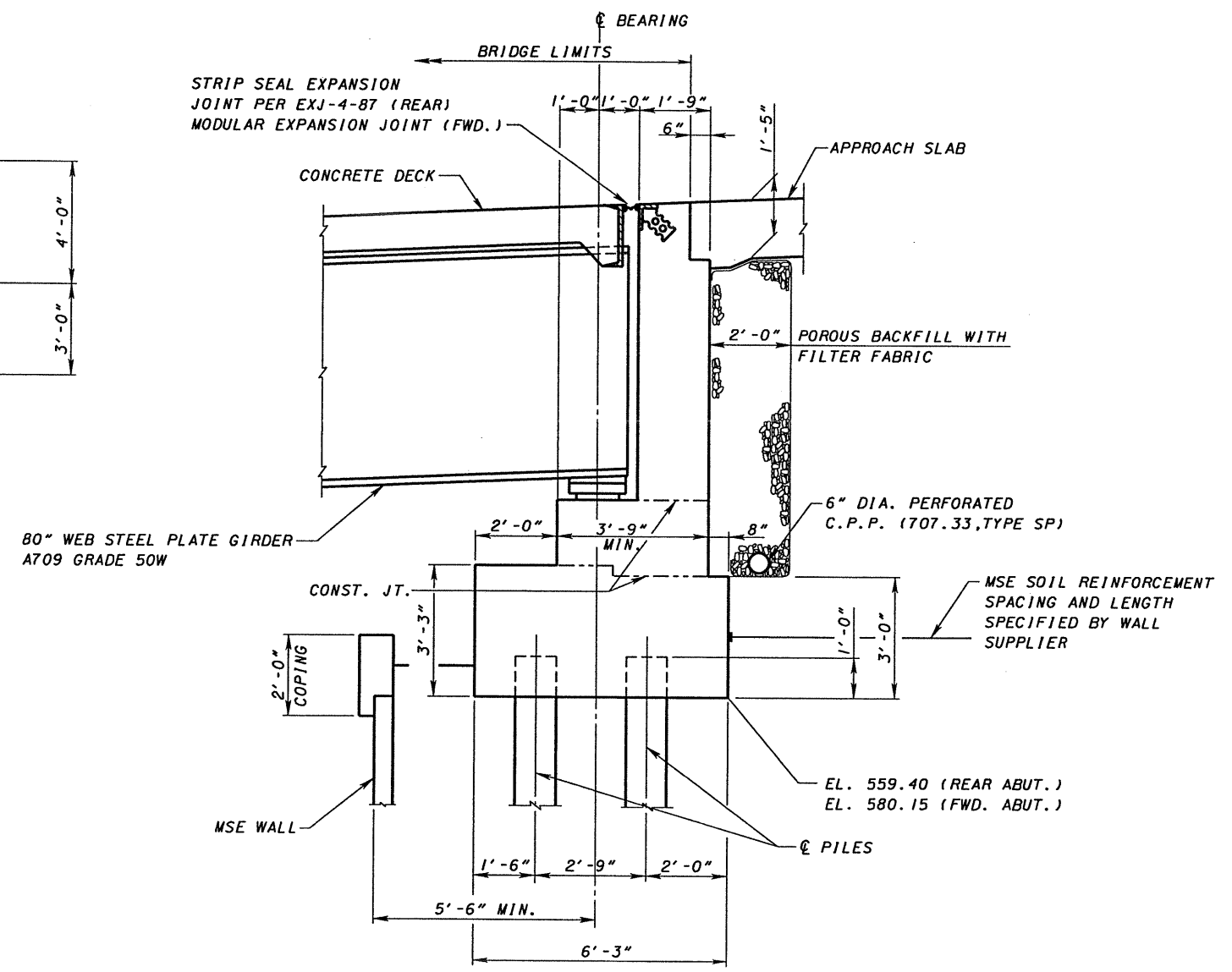
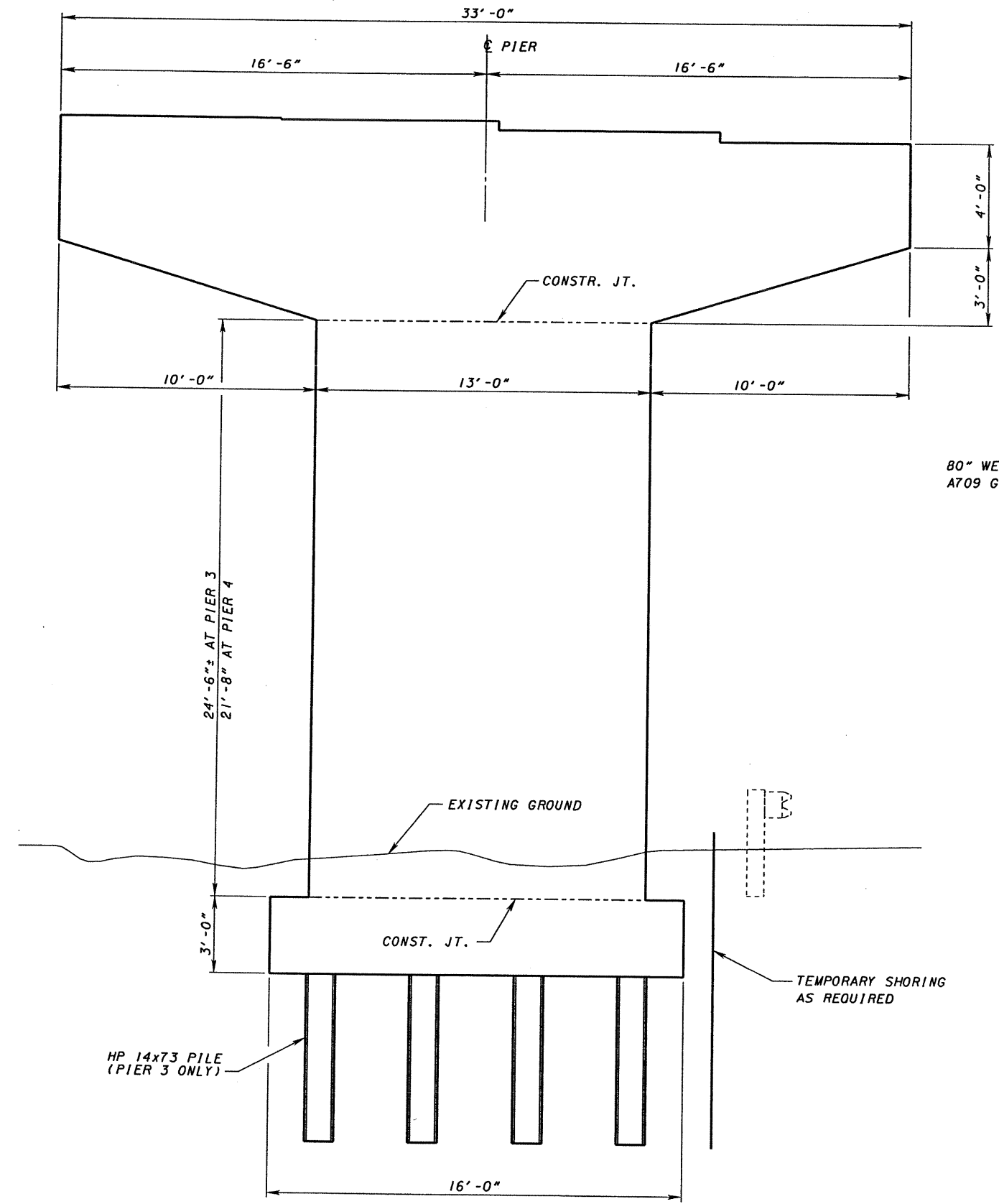
**SECTION A-A**

- NOTES:**
1. SUBSTRUCTURE DIMENSIONS ARE MEASURED ALONG  $\phi$  PIER.
  2. SUPERSTRUCTURE DIMENSIONS ARE MEASURED NORMAL TO THE  $\phi$  US52 RAMP B.
  3. FOR MAINTENANCE OF TRAFFIC DETAILS, SEE PRELIMINARY MAINTENANCE OF TRAFFIC SHEET X / X.

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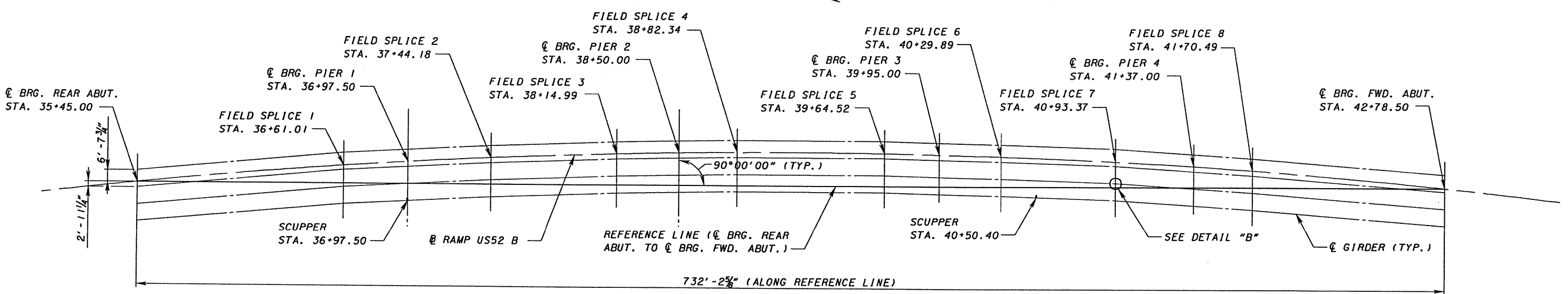
DESIGN AGENCY TERRY SYSTEMS 5140 PARKWAY DRIVE, SUITE 200 BELL, MISSOURI 64601	
DATE 09/26/07	STRUCTURE FILE NUMBER 7306261
REVIEWED MSL	REVISED MSL
DRAWN J.DG	CHECKED MSL
DESIGNED P.J.P	PROJECT NO. SC1-823-0067L
<b>TYPICAL INTEGRAL PIER DETAILS</b> BRIDGE NO. SC1-823-0067L US52 RAMP B TO SOUTHBOUND SR823	
PID 77366	
3 / 19	
780 847	

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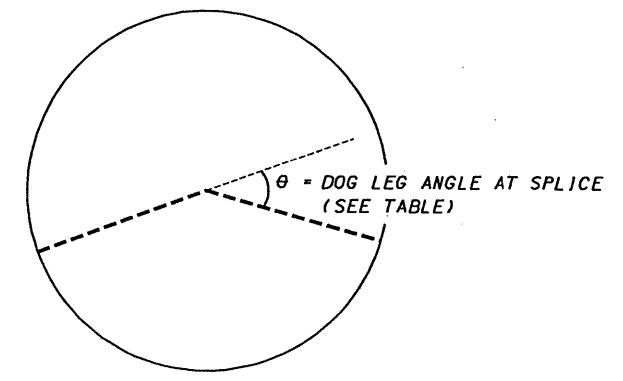


TYPICAL ABUTMENT SECTION

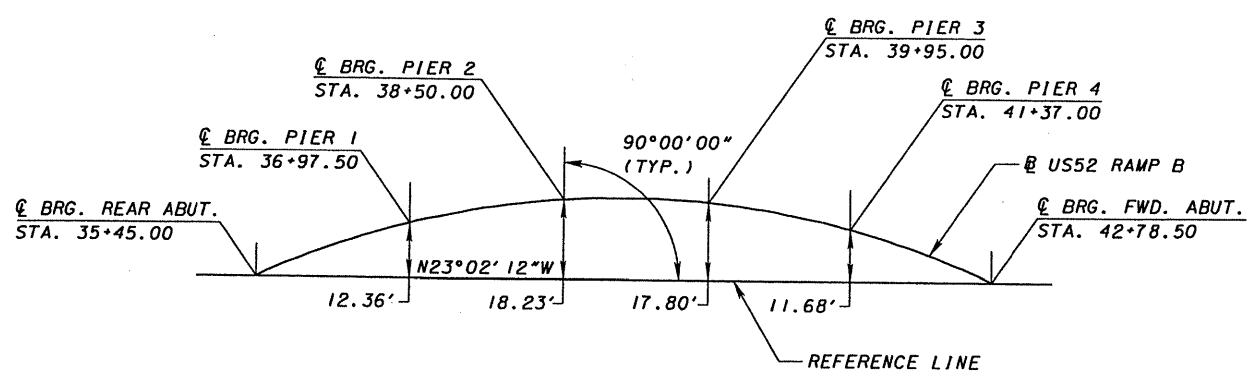
DESIGN AGENCY <b>MTN Systems</b> 514 PINEHURST DRIVE, SUITE 240 DUBLIN, OHIO 43017	
DATE	09/26/07
REVIEWED	MSL
DESIGNED	PJP
DRAWN	JDG
CHECKED	MTN
STRUCTURE FILE NUMBER	7306261
<b>TYPICAL PIER AND ABUTMENT DETAILS</b> BRIDGE NO. SC1-823-0067L US52 RAMP B TO SOUTHBOUND SR823	
SC1-823-0.00 PID 77366	
4 / 19	
781 847	



**FRAMING PLAN - PROPOSED 5 SPAN**



**DETAIL "B"**



**REFERENCE LINE SCHEMATIC**

DOG LEG ANGLE AT SPLICES		
LOCATION	STATION	θ
SPLICE 1	STA. 36+61.01	2.11°
SPLICE 2	STA. 37+44.18	0.95°
SPLICE 3	STA. 38+14.99	1.11°
SPLICE 4	STA. 38+82.34	1.20°
SPLICE 5	STA. 39+64.52	1.19°
SPLICE 6	STA. 40+29.89	0.66°
SPLICE 7	STA. 40+93.37	1.81°
SPLICE 8	STA. 41+70.49	0.74°

GIRDER LENGTH AND SPACING			
FROM	TO	GIRDER LENGTH	GIRDER SPACING*
☉ BRG. REAR ABUT.	SPLICE 1	116.05'	3 @ 9.55'
SPLICE 1	SPLICE 2	83.15'	3 @ 9.58'
SPLICE 2	SPLICE 3	70.81'	3 @ 9.58'
SPLICE 3	SPLICE 4	67.35'	3 @ 9.59'
SPLICE 4	SPLICE 5	82.18'	3 @ 9.59'
SPLICE 5	SPLICE 6	65.37'	3 @ 9.59'
SPLICE 6	SPLICE 7	63.46'	3 @ 9.58'
SPLICE 7	SPLICE 8	77.15'	3 @ 9.57'
SPLICE 8	☉ BRG. FWD. ABUT.	107.94'	3 @ 9.56'

\* GIRDER SPACING IS MEASURED NORMAL TO GIRDER CENTERLINE

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MSE WALL NO. 3

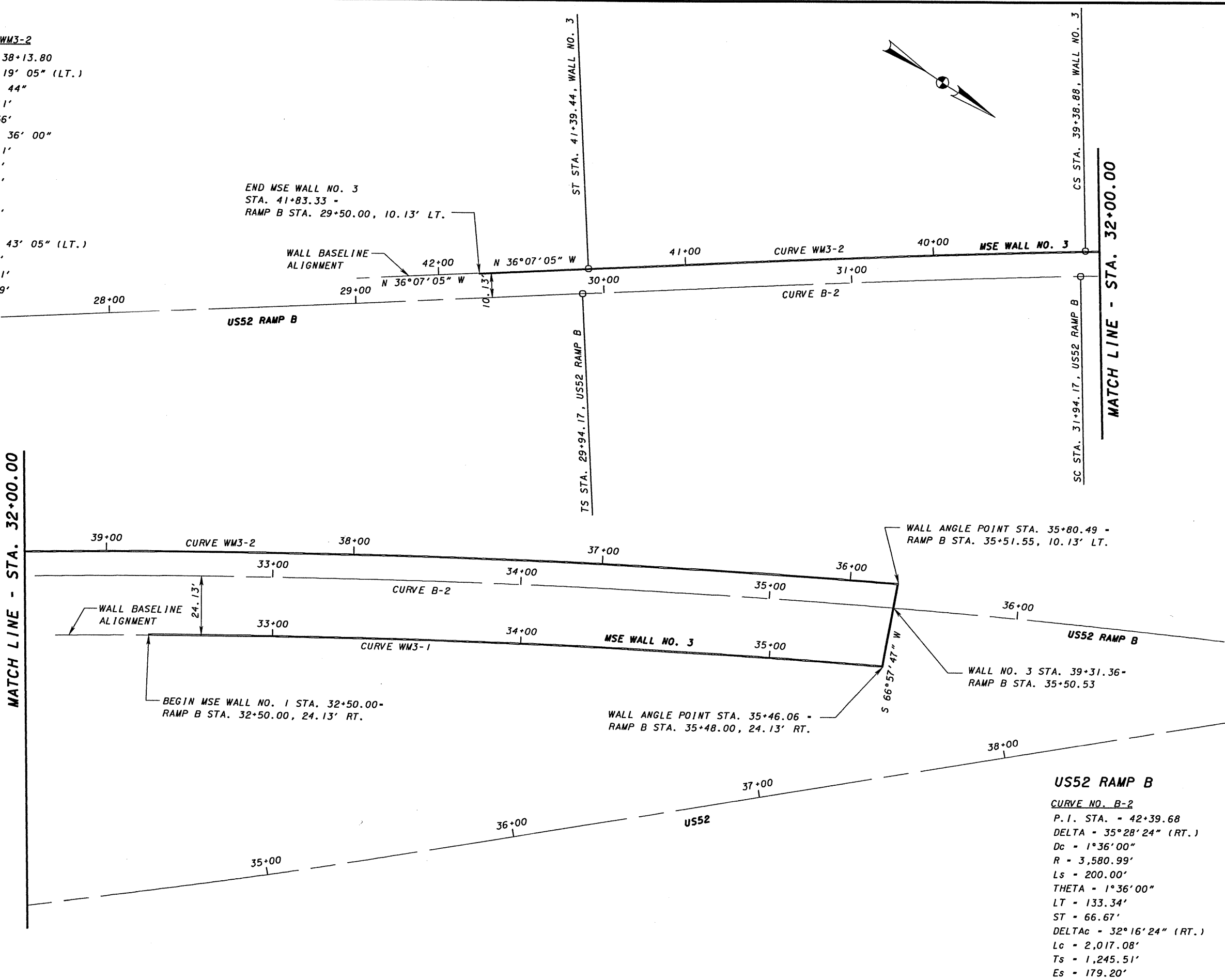
CURVE NO. WM3-1

P.I. STA = 33+98.12  
 DELTA = 4° 46' 09" (RT.)  
 Dc = 1° 36' 39"  
 R = 3,556.86'  
 T = 148.12'  
 L = 296.06'  
 E = 3.08'

CURVE NO. WM3-2

P.I. STA = 38+13.80  
 DELTA = 7° 19' 05" (LT.)  
 Dc = 1° 35' 44"  
 R = 3,591.11'  
 Ls2 = 200.56'  
 THETA2 = 1° 36' 00"  
 LT2 = 133.71'  
 ST2 = 66.86'  
 x2 = 200.54'  
 y2 = 1.87'  
 k2 = 100.28'  
 p2 = 0.47'  
 DELTAc = 5° 43' 05" (LT.)  
 Lc = 358.39'  
 Ts1 = 233.31'  
 Ts2 = 326.29'  
 Es = 7.57'

MATCH LINE - STA. 32+00.00



END MSE WALL NO. 3  
 STA. 41+83.33 =  
 RAMP B STA. 29+50.00, 10.13' LT.

WALL BASELINE  
 ALIGNMENT

WALL ANGLE POINT STA. 35+80.49 -  
 RAMP B STA. 35+51.55, 10.13' LT.

WALL NO. 3 STA. 39+31.36 -  
 RAMP B STA. 35+50.53

WALL ANGLE POINT STA. 35+46.06 -  
 RAMP B STA. 35+48.00, 24.13' RT.

BEGIN MSE WALL NO. 1 STA. 32+50.00 -  
 RAMP B STA. 32+50.00, 24.13' RT.

US52 RAMP B

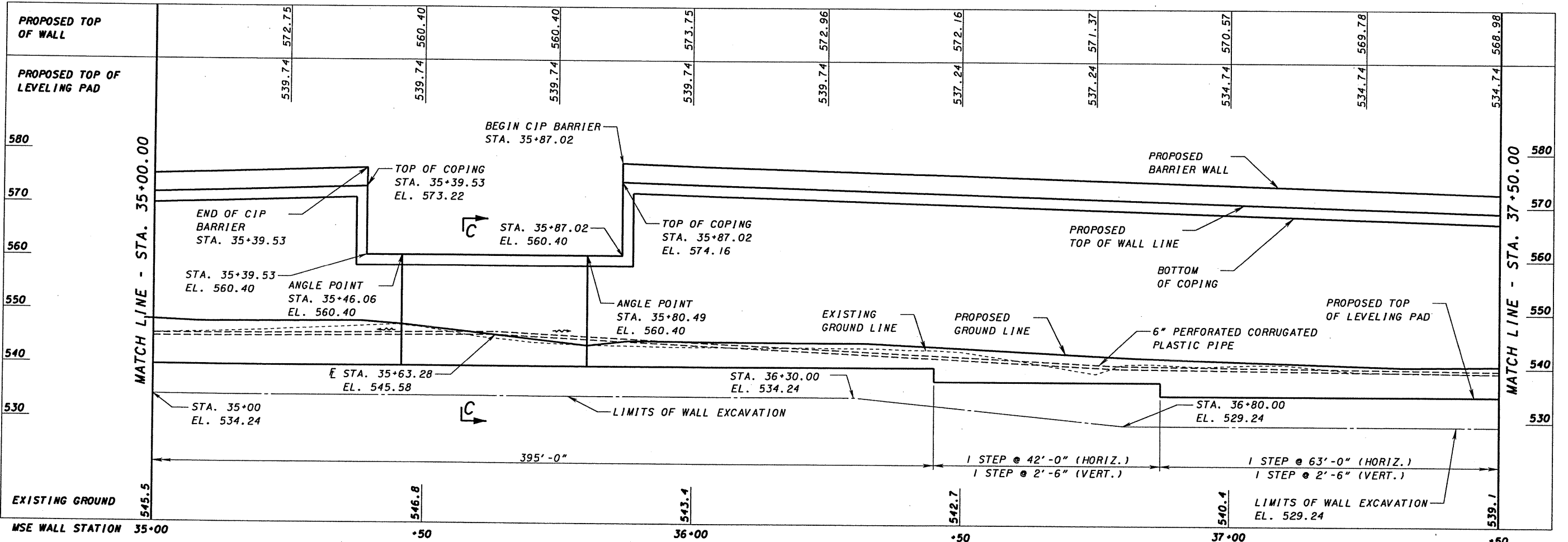
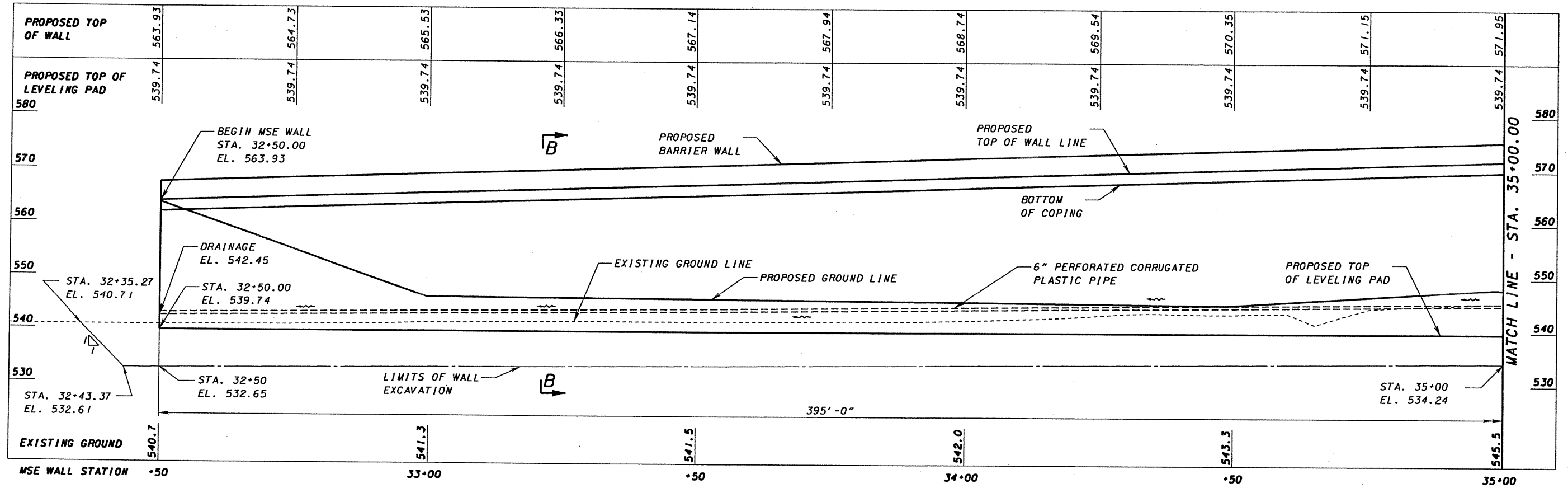
CURVE NO. B-2  
 P.I. STA. = 42+39.68  
 DELTA = 35° 28' 24" (RT.)  
 Dc = 1° 36' 00"  
 R = 3,580.99'  
 Ls = 200.00'  
 THETA = 1° 36' 00"  
 LT = 133.34'  
 ST = 66.67'  
 DELTAc = 32° 16' 24" (RT.)  
 Lc = 2,017.08'  
 Ts = 1,245.51'  
 Es = 179.20'

MATCH LINE - STA. 32+00.00

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DESIGN AGENCY <b>T&amp;E Systems</b> 547 PEQUENNET DRIVE, SUITE 200 DUBLIN, OHIO 43017	DATE	09/26/07
	REVIEWED	MSL
STRUCTURE FILE NUMBER	7306261	
DESIGNED	MTN	CHECKED
DRAWN	MSW	REVISED
MSE WALL SCHEMATIC PLAN - WALL NO. 3 BRIDGE NO. SC1-823-0067L US52 RAMP B OVER US52 AND CR503 (OHIO RIVER ROAD)		
SC1-823-0.00	PID 77366	
6	19	
783	847	

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ELEVATION ALONG BASELINE WALL NO. 3

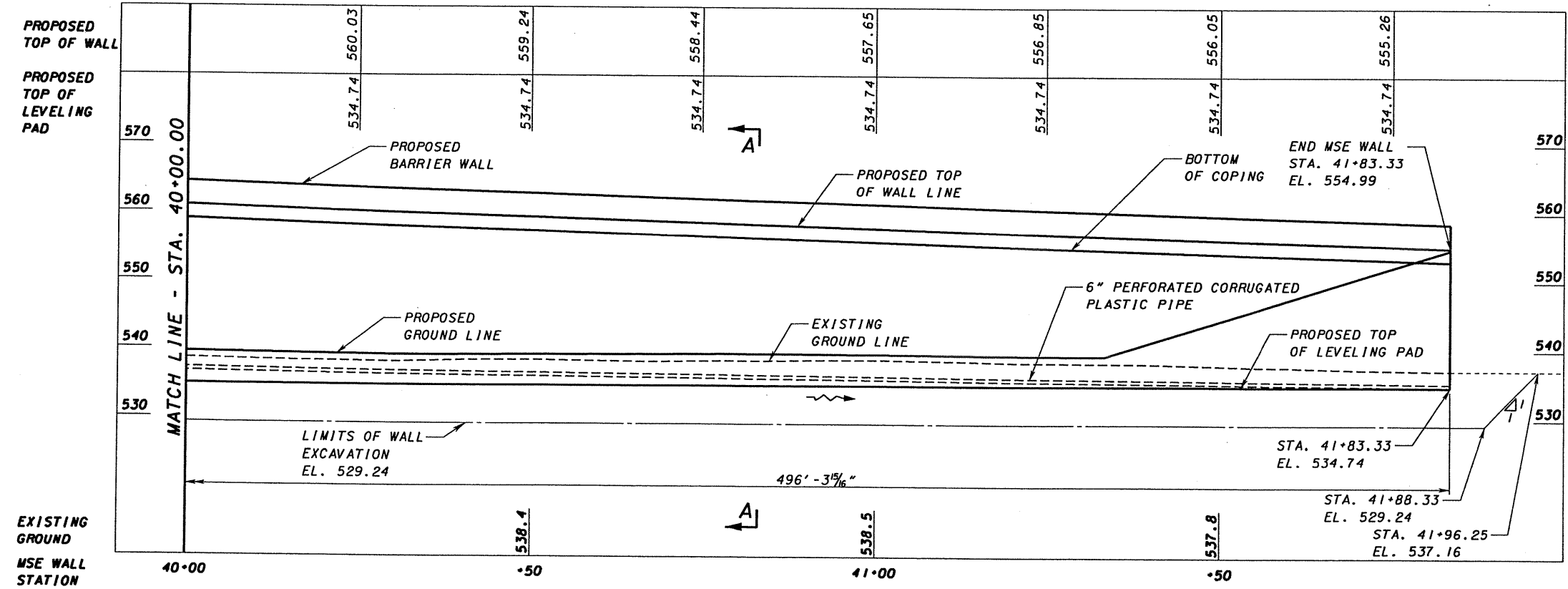
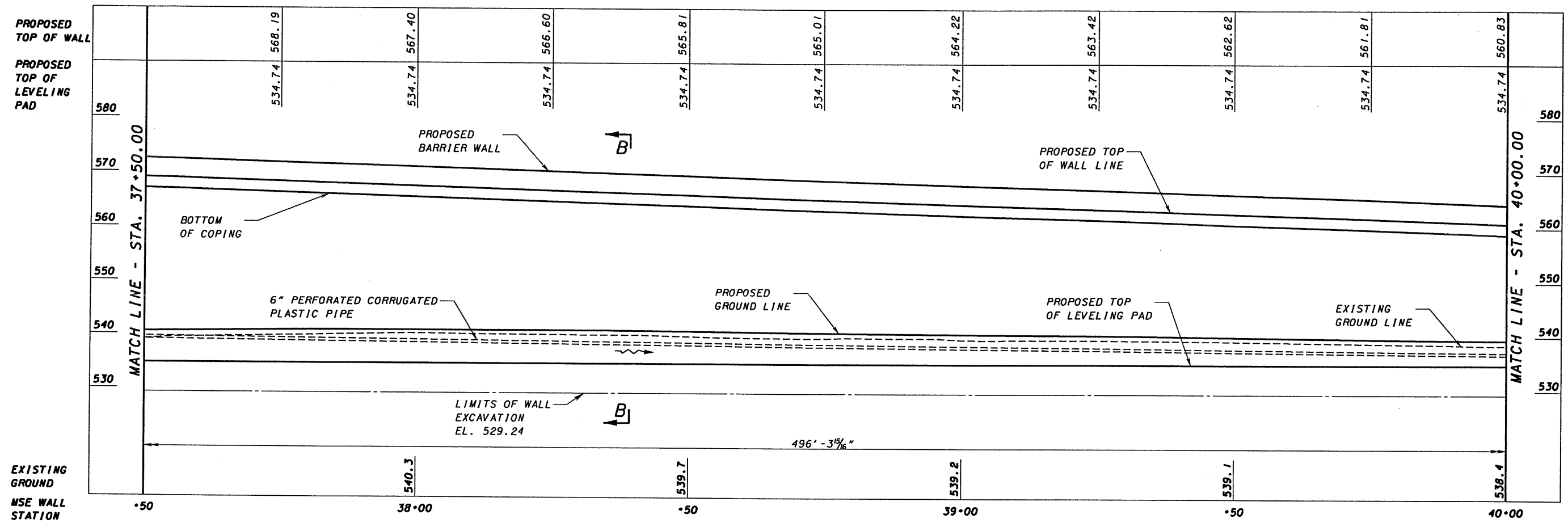


DESIGNED	MTN	CHECKED	PJP
DRAWN	DJR	REVISED	
REVIEWED	MSL	DATE	09/26/07
STRUCTURE FILE NUMBER	7306261		

MSE WALL ELEVATION - WALL NO. 3  
 BRIDGE NO. SC1-823-0067L  
 US52 RAMP B OVER US52 AND CR503 (OHIO RIVER ROAD)

SC1-823-0.00  
 PID 77366

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ELEVATION ALONG BASELINE WALL NO. 3



DESIGNED	MTN	CHECKED	PJP
DRAWN	DJR	REVISED	
REVIEWED	MSL	DATE	09/26/07
STRUCTURE FILE NUMBER	7306261		

MSE WALL ELEVATION - WALL NO. 3  
 BRIDGE NO. SCI-823-0074L  
 US52 RAMP B US52 AND CR503 (OHIO RIVER ROAD)

SCI-823-0.00  
 PID 77366

8 / 19

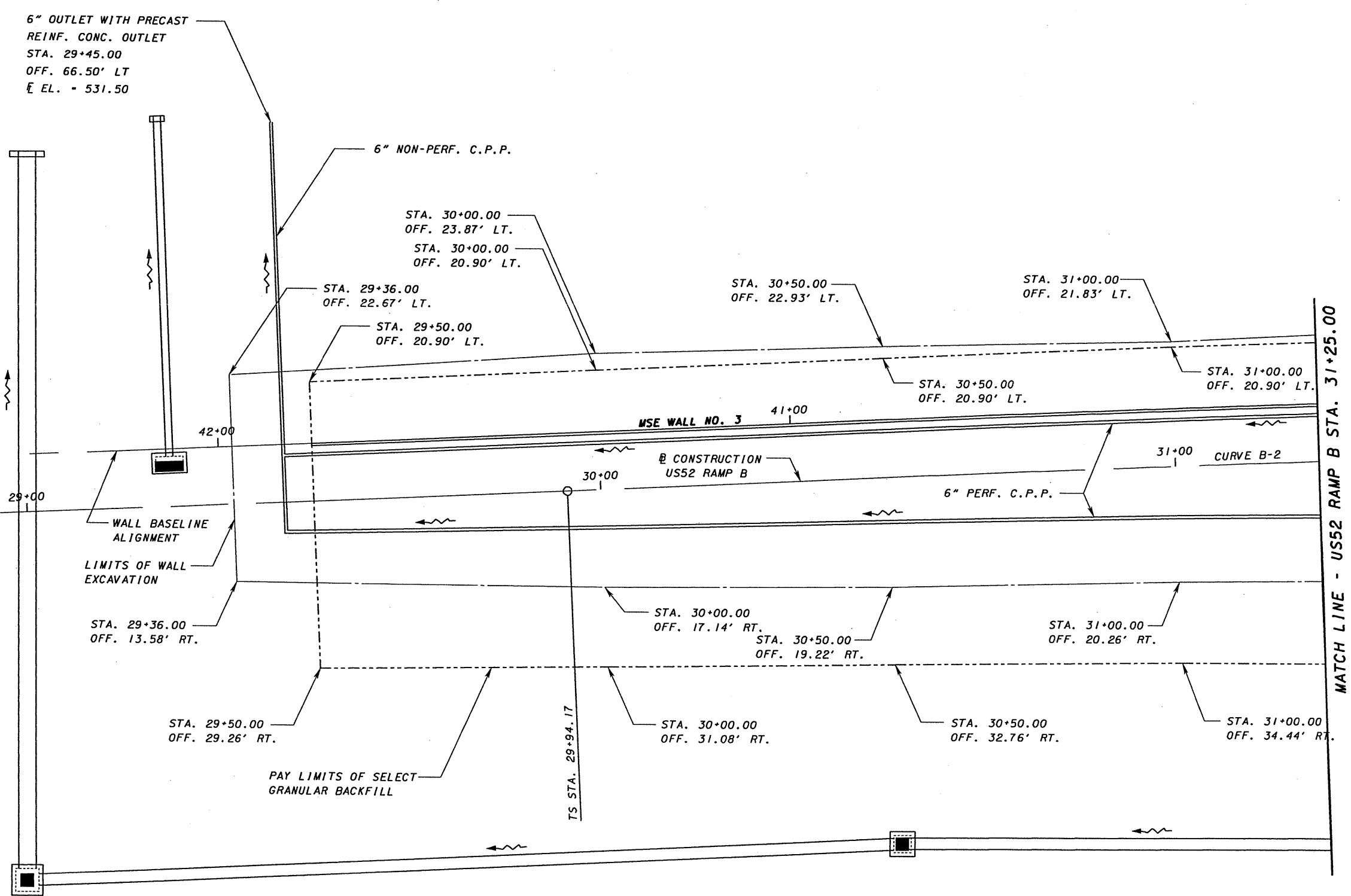
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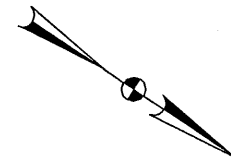
**US52 RAMP B**

**CURVE NO. B-2**

P.I. STA. = 42+39.68  
 DELTA = 35°28'24" (RT.)  
 Dc = 1°36'00"  
 R = 3,580.99'  
 Ls = 200.00'  
 THETA = 1°36'00"  
 LT = 133.34'  
 ST = 66.67'  
 DELTAc = 32°16'24" (RT.)  
 Lc = 2,017.08'  
 Ts = 1,245.51'  
 Es = 179.20'



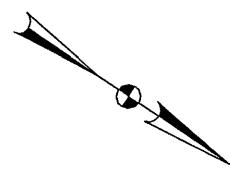
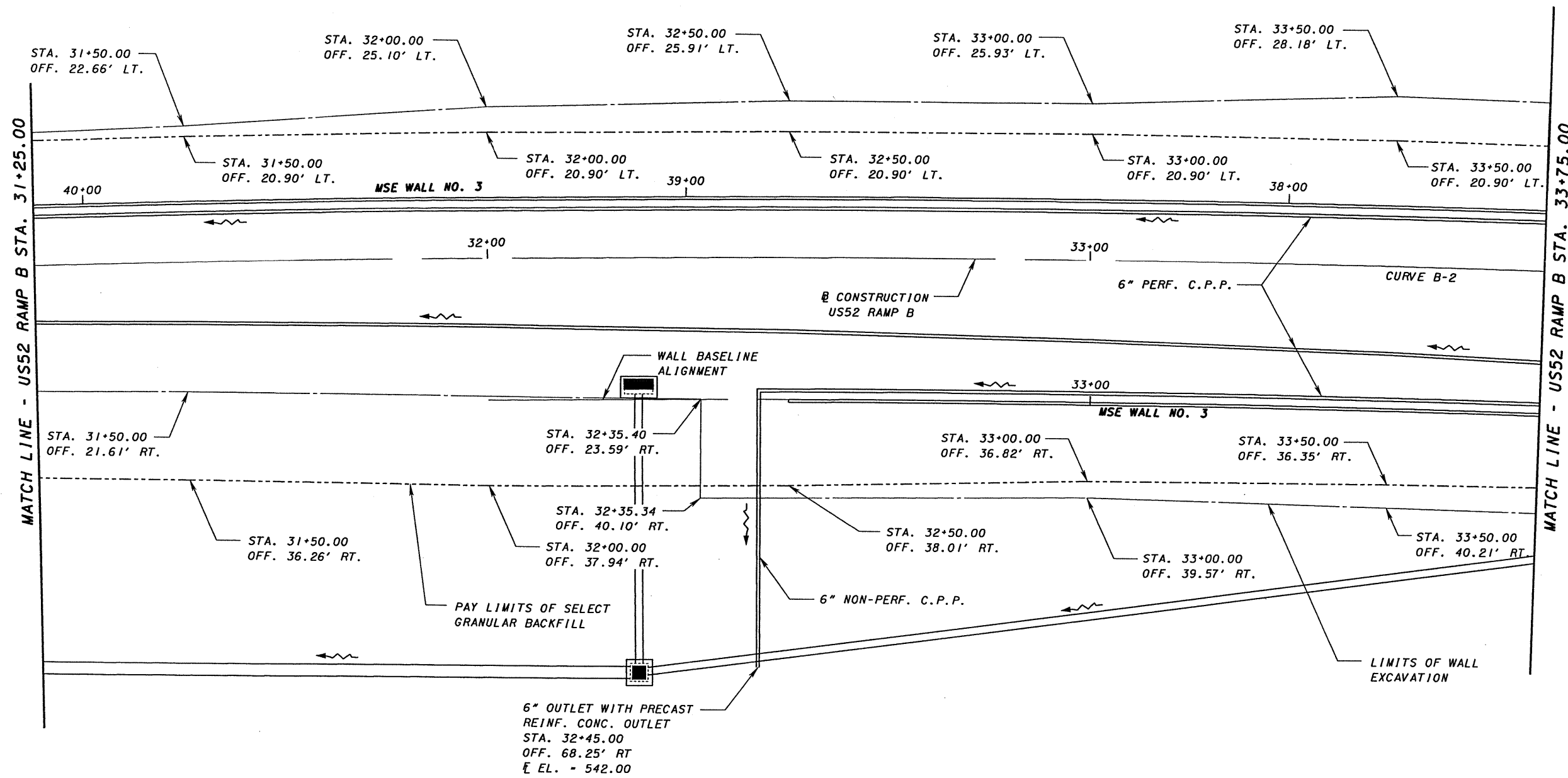
**NOTE:**  
 1. STATIONING GIVEN FROM US52 RAMP B @ UNLESS OTHERWISE NOTED  
 2. SEE MSE WALL LAYOUT PLAN FOR WALL GEOMETRY AND CURVE DATA.



DESIGNED	DATE
MTN	09/26/07
CHECKED	REVIEWED
PJP	MSL
	STRUCTURE FILE NUMBER
	7306261
<b>MSE WALL ELEVATION AND DRAINAGE PLAN - WALL NO. 3</b> BRIDGE NO. SC1-823-0067L US52 RAMP B OVER US52 AND CR503 (OHIO RIVER ROAD)	
SC1-823-0.00	PID 77366
9/19	786/847



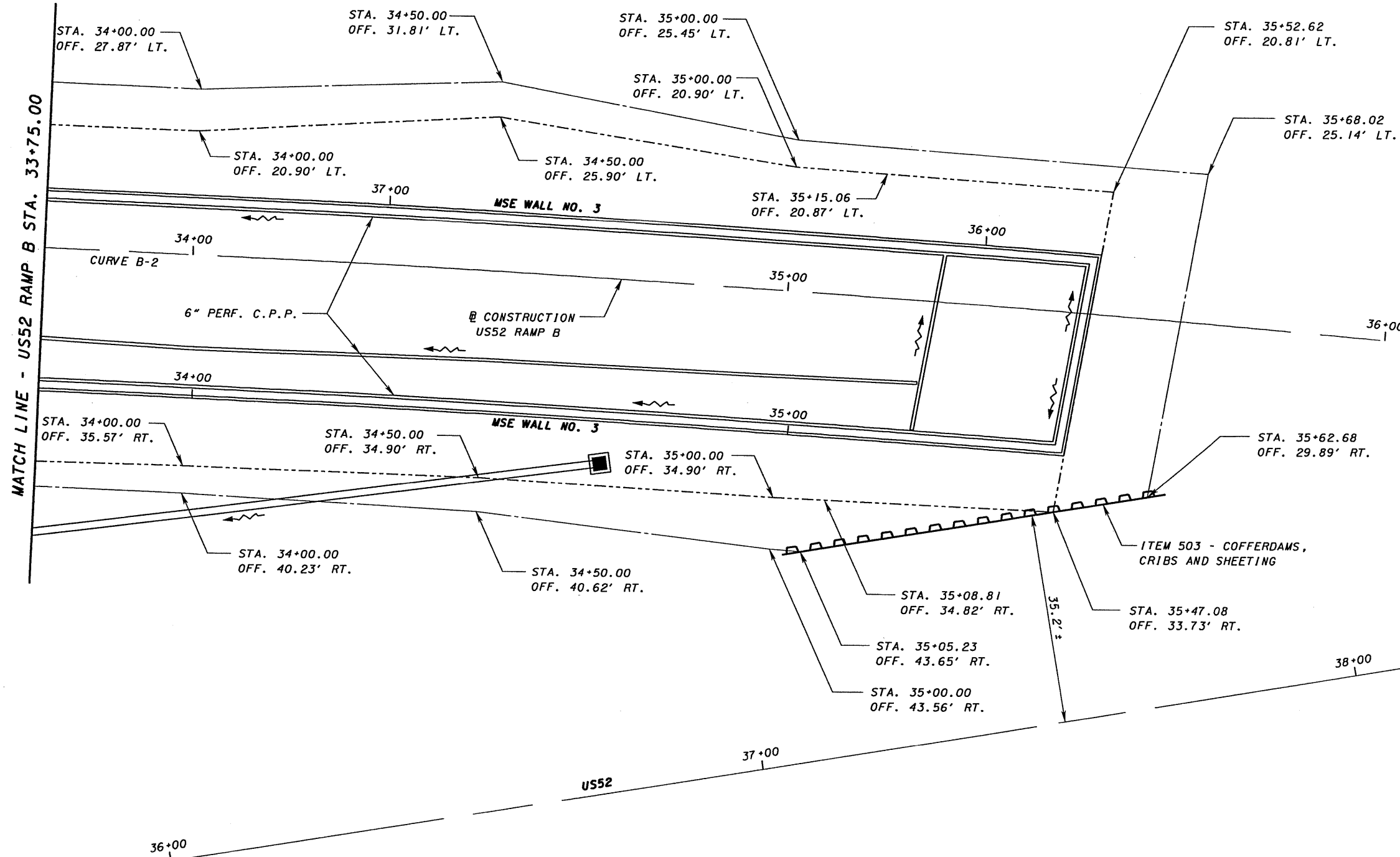
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**NOTE:**  
 1. STATIONING GIVEN FROM US52 RAMP B @ UNLESS OTHERWISE NOTED  
 2. SEE MSE WALL LAYOUT PLAN FOR WALL GEOMETRY AND CURVE DATA.

DESIGN AGENCY <b>TransSystems</b> 570 POPPENTER DRIVE, SUITE 200 DUBLIN, OHIO 43017	
DATE 09/26/07	REVIEWED MSL
STRUCTURE FILE NUMBER 7306261	STRUCTURE FILE NUMBER 7306261
DESIGNED MTN	DRAWN CAS
CHECKED PJP	REVISED
MSE WALL ELEVATION AND DRAINAGE PLAN - WALL NO. 3	
BRIDGE NO. SC1-823-0067L	
US52 RAMP B OVER US52 AND CR503 (OHIO RIVER ROAD)	
SC1-823-0.00	PID 77366
10/19	787
	847

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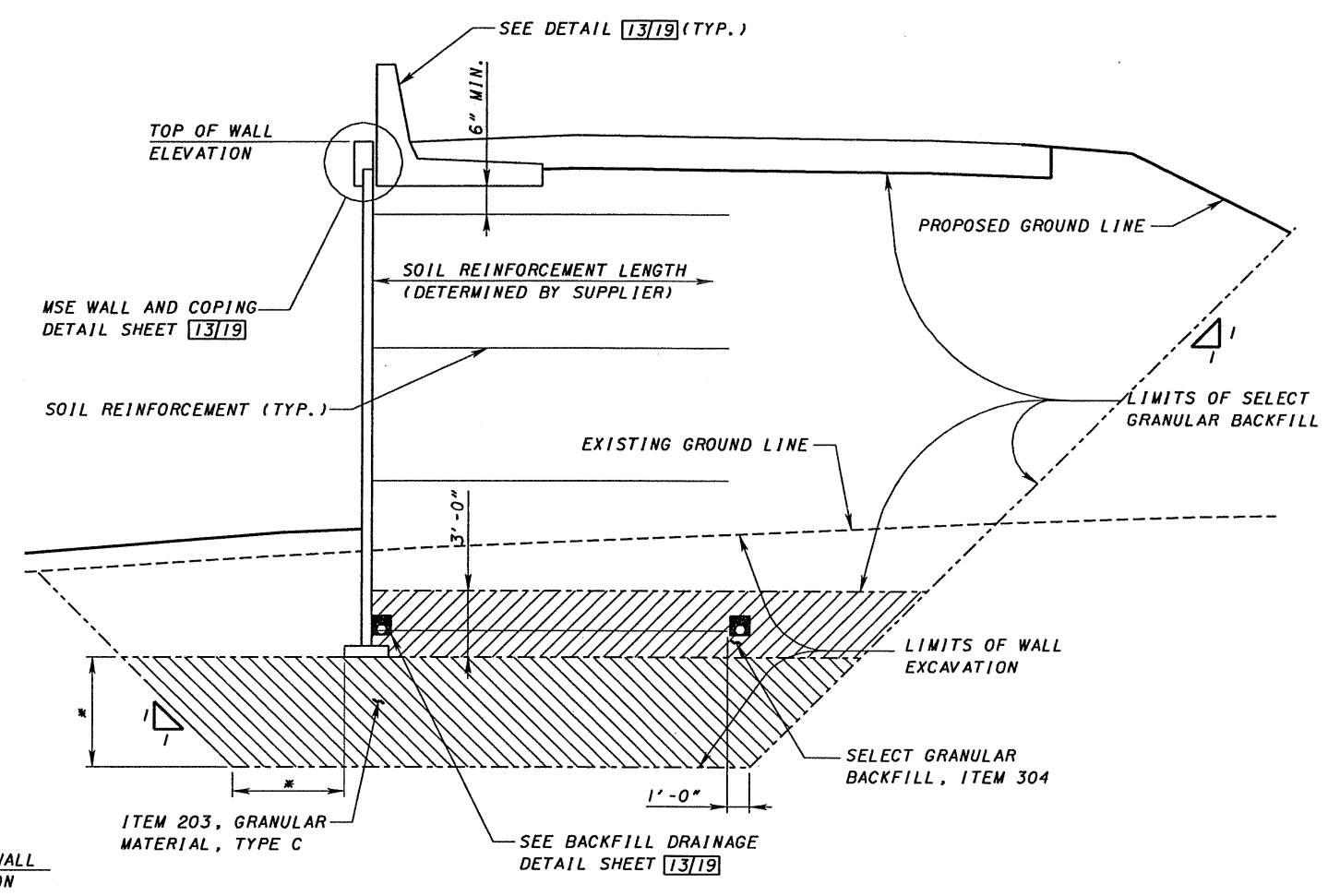
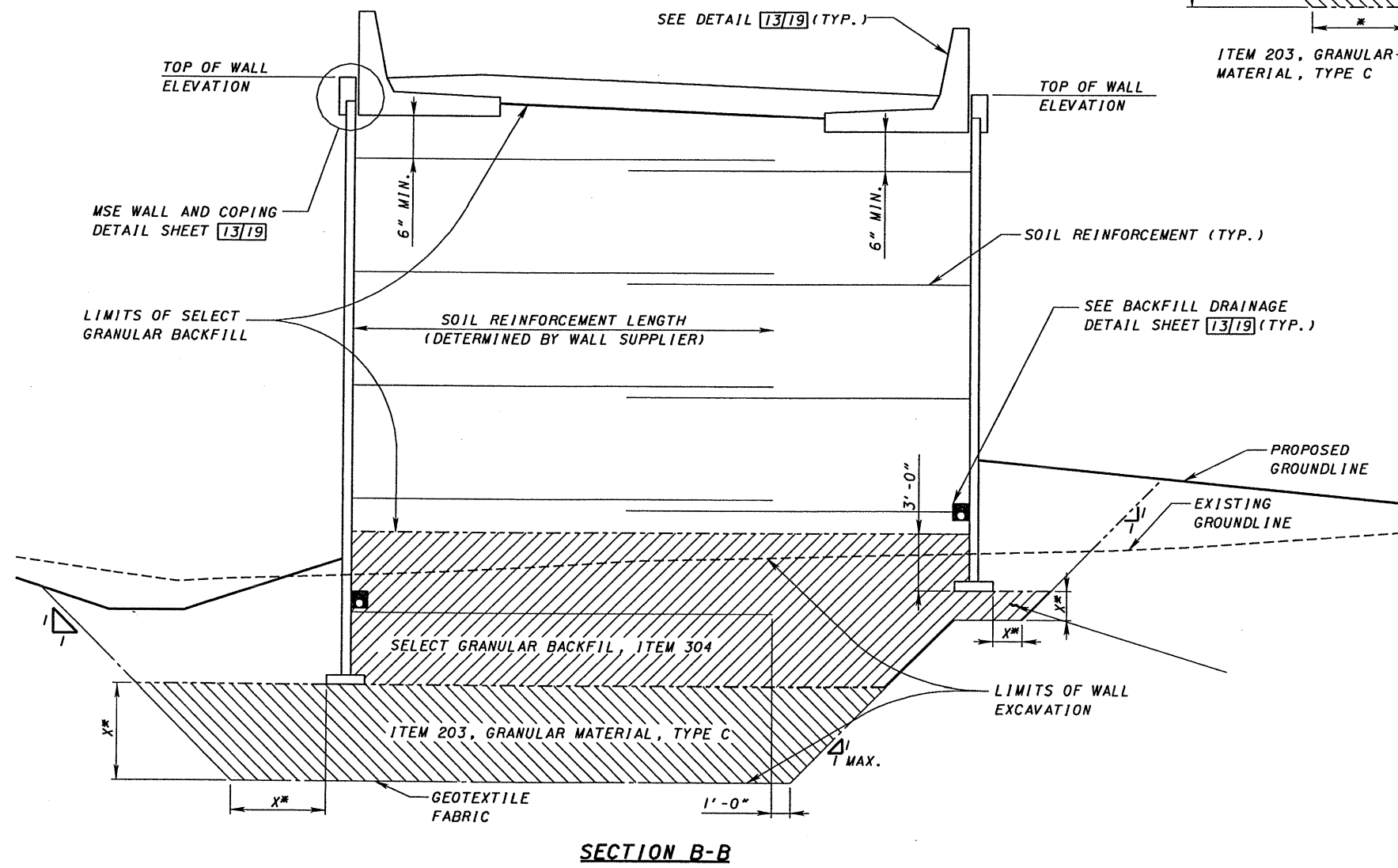


**US52 RAMP B**  
 CURVE NO. B-2  
 P.I. STA. = 42+39.68  
 DELTA = 35°28'24" (RT.)  
 Dc = 1°36'00"  
 R = 3,580.99'  
 Ls = 200.00'  
 THETA = 1°36'00"  
 LT = 133.34'  
 ST = 66.67'  
 DELTAc = 32°16'24" (RT.)  
 Lc = 2,017.08'  
 Ts = 1,245.51'  
 Es = 179.20'

**NOTE:**  
 1. STATIONING GIVEN FROM US52 RAMP B @ UNLESS OTHERWISE NOTED  
 2. SEE MSE WALL LAYOUT PLAN FOR WALL GEOMETRY AND CURVE DATA.

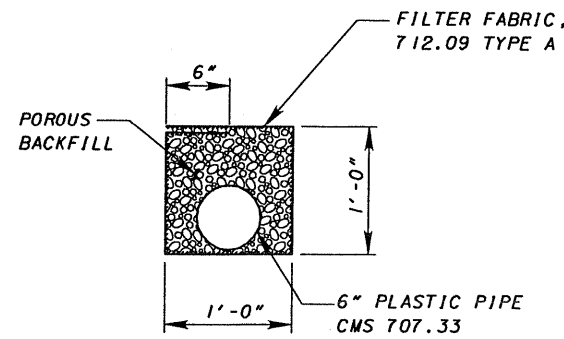
DESIGN AGENCY <b>TranSystems</b> 570 HOPKINSON DRIVE, SUITE 200 MILLIS, MA 01947	
DATE 09/26/07	REVIEWED MSL
STRUCTURE FILE NUMBER 7-306261	DESIGNED MTN
DRAWN CAS	CHECKED PJP
MSE WALL EXCAVATION AND DRAINAGE PLAN - WALL NO. 3	
BRIDGE NO. SC1-823-0067L	
US52 RAMP B OVER US52 AND CR503 (OHIO RIVER ROAD)	
SC1-823-0.00	PID 77366
11/19	788
	847

5:01:48 PM 11/28/2007 g:\CO03\0064\Bridges\CONCRETE\US52RampB\T&L\B23\_006TL\_MSER.dgn

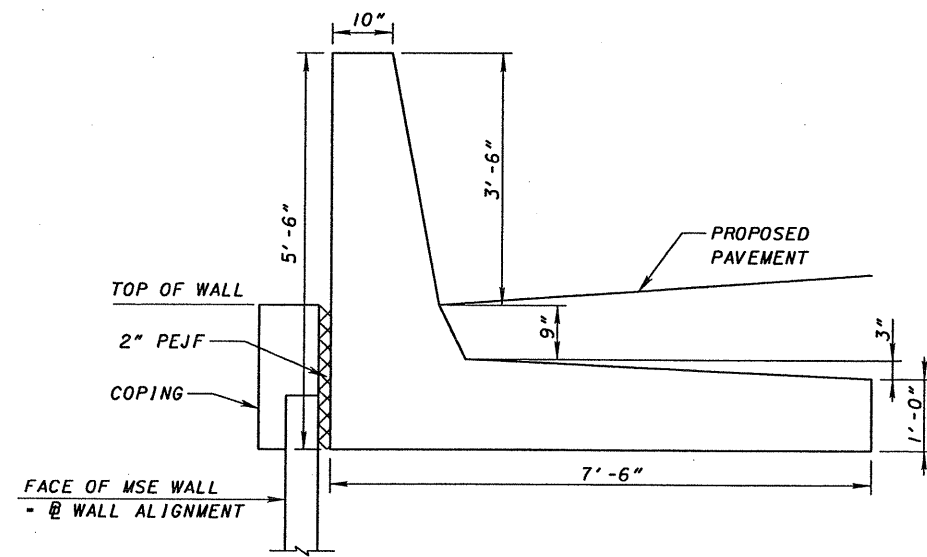


\* SEE NOTE 5 SHEET [13/19]

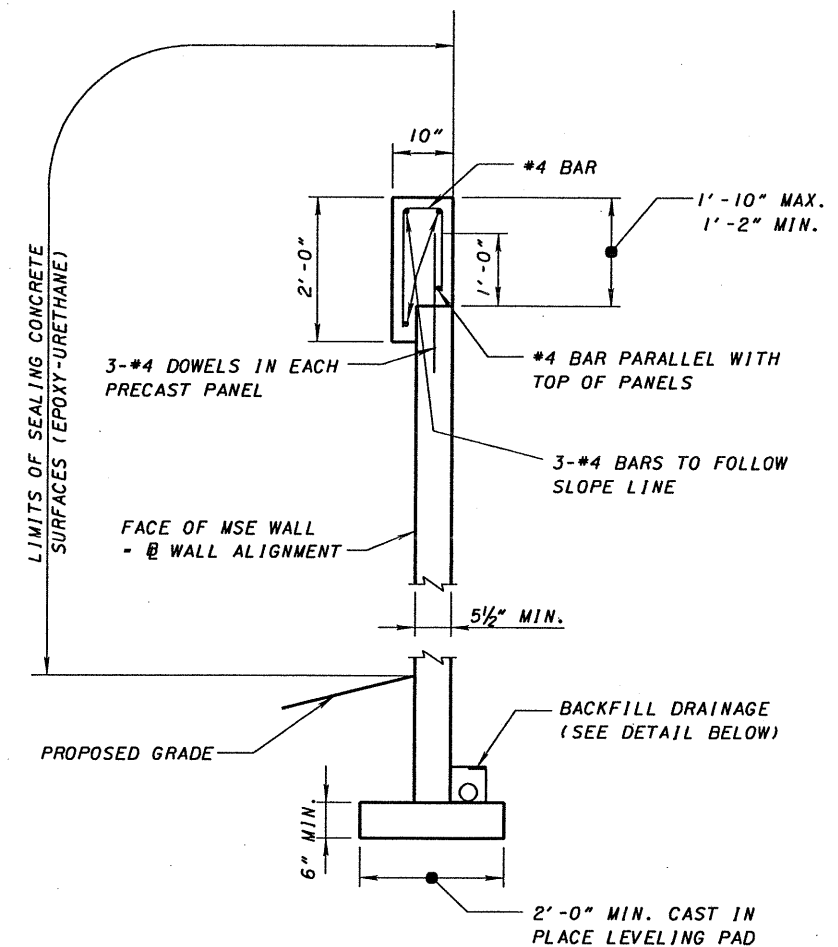
DESIGNED	MTN
CHECKED	PJP
DRAWN	DJR
REVIEWED	MSL
DATE	09/26/07
STRUCTURE FILE NUMBER	7306261
<b>MSE WALL DETAILS - WALL NO. 3</b> BRIDGE NO. SC1-823-0067L US52 RAMP B OVER US52 AND CR503 (OHIO RIVER ROAD)	
SC1-823-0.00	PID 77366
12/19	789/847



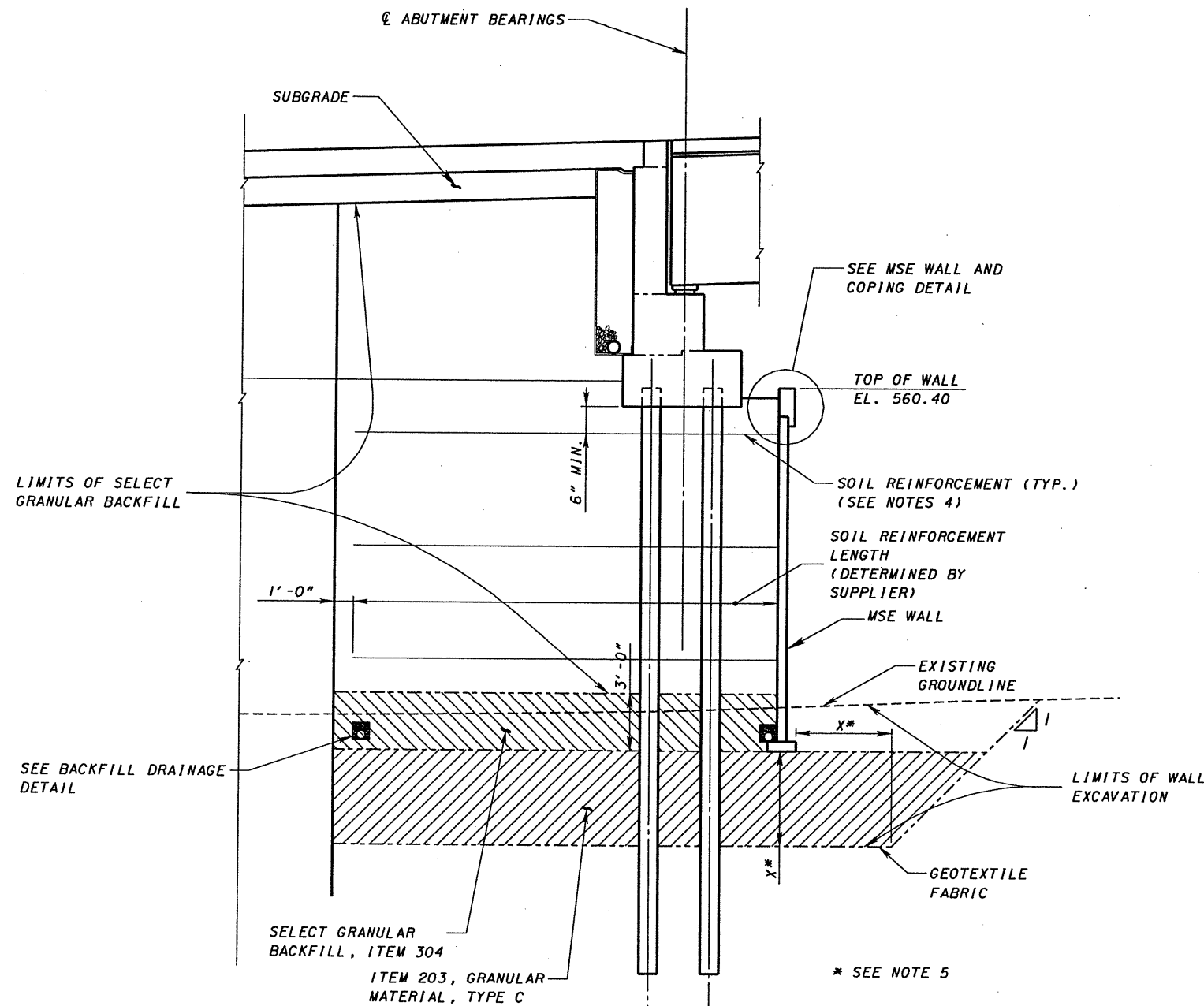
**BACKFILL DRAINAGE DETAIL**



**CIP BARRIER DETAIL**



**MSE WALL AND COPING DETAIL**



**SECTION C-C**

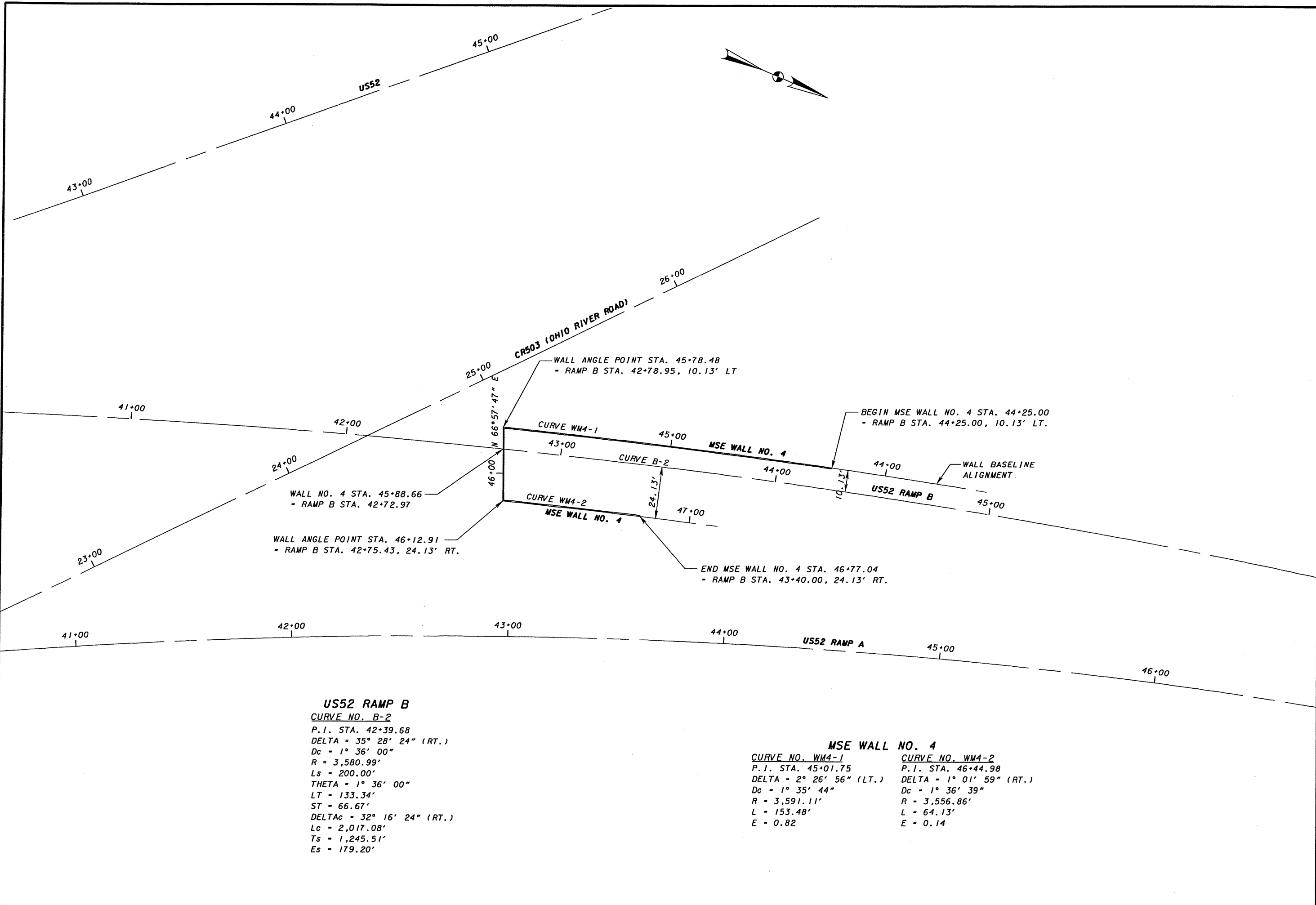
**NOTES:**

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. 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.
5. SEE MSE WALL ELEVATION, SHEET 8819 FOR THE LIMIT OF WALL EXCAVATION ELEVATION. THE WALL EXCAVATION SHALL EXTEND IN FRONT OF THE WALL DISTANCE EQUAL TO THE DEPTH OF EXCAVATION BELOW THE LEVELING PAD.

11/28/2007 5:12:25 PM g:\c003\0064\Bridges\CNV\BTS\US52RampB\TSA\823\_0067L\MSERet02.dgn



5:12:25 PM 11/28/2007 91:\C003\0064\Bridges\CNV\BTS\US52RampB\TSS\823\_0067L\MSEF\WSP01.dgn



WALL NO. 4 STA. 45+88.66  
- RAMP B STA. 42+72.97

WALL ANGLE POINT STA. 46+12.91  
- RAMP B STA. 42+75.43, 24.13' RT.

WALL ANGLE POINT STA. 45+78.48  
- RAMP B STA. 42+78.95, 10.13' LT

BEGIN MSE WALL NO. 4 STA. 44+25.00  
- RAMP B STA. 44+25.00, 10.13' LT.

END MSE WALL NO. 4 STA. 46+77.04  
- RAMP B STA. 43+40.00, 24.13' RT.

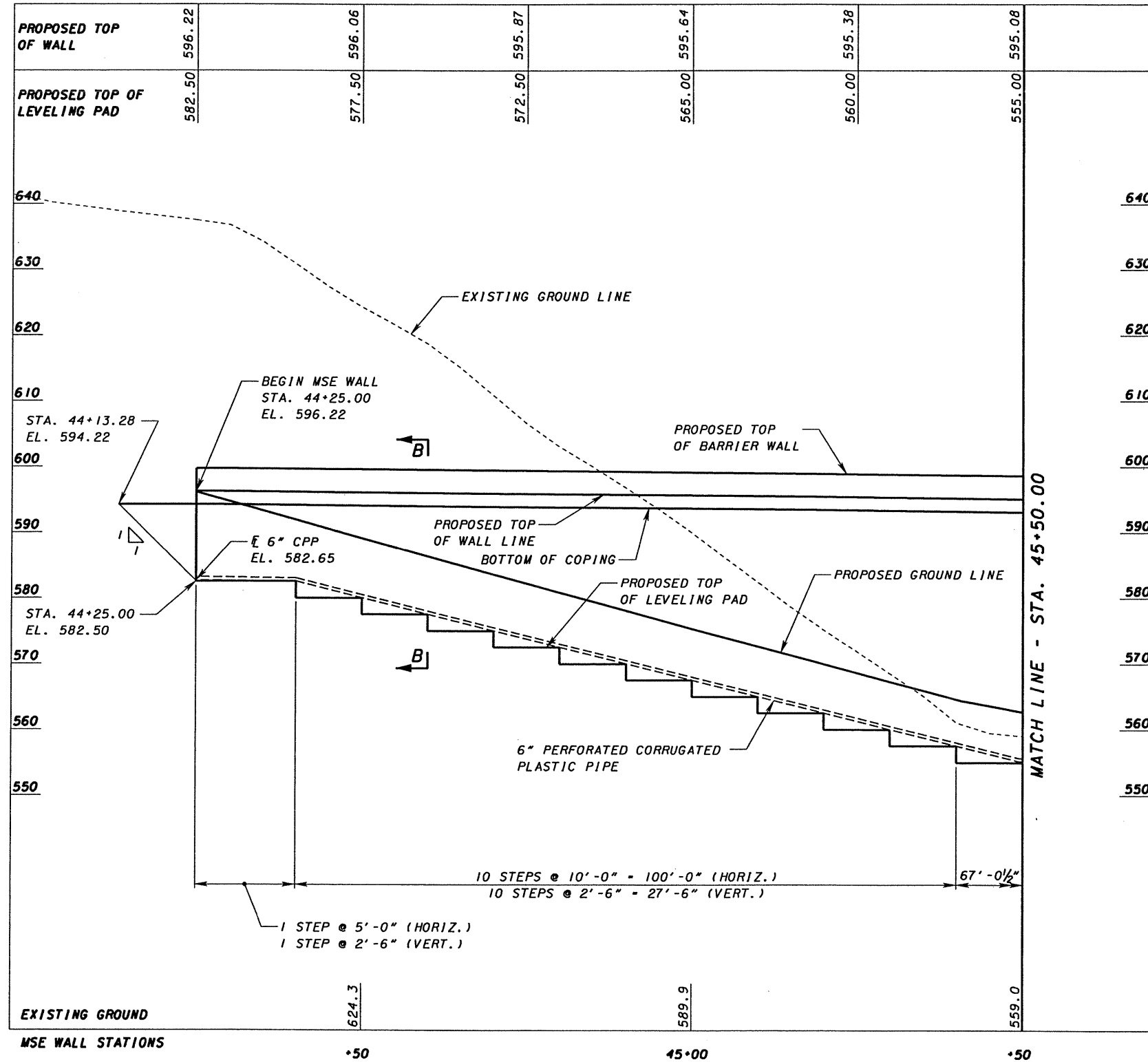
**US52 RAMP B**  
**CURVE NO. B-2**  
 P.I. STA. 42+39.68  
 DELTA = 35° 28' 24" (RT.)  
 Dc = 1° 36' 00"  
 R = 3,580.99'  
 Ls = 200.00'  
 THETA = 1° 36' 00"  
 LT = 133.34'  
 ST = 66.67'  
 DELTAc = 32° 16' 24" (RT.)  
 Lc = 2,017.08'  
 Ts = 1,245.51'  
 Es = 179.20'

**MSE WALL NO. 4**

<b>CURVE NO. WM4-1</b> P.I. STA. 45+01.75 DELTA = 2° 26' 56" (LT.) Dc = 1° 35' 44" R = 3,591.11' L = 153.48' E = 0.82	<b>CURVE NO. WM4-2</b> P.I. STA. 46+44.98 DELTA = 1° 01' 59" (RT.) Dc = 1° 36' 39" R = 3,556.86' L = 64.13' E = 0.14
---	--

	DESIGN AGENCY <b>TSS Systems</b> <small>FOR LAST PUTE USE ONLY. SUITE 300 CINCINNATI, OHIO 45202</small>	DATE <b>09/26/07</b>	REVIEWED MSJ	STRUCTURE FILE NUMBER <b>7306261</b>
DRAWN DJR	CHECKED PJP	DESIGNED MTN	REVISED	
<b>MSE WALL SCHEMATIC PLAN - WALL NO. 4</b> BRIDGE NO. SC1-823-0067L US52 RAMP B OVER US52 AND CR503 (OHIO RIVER ROAD)				
<b>SC1-823-0.00</b>	<b>PID 77366</b>	14 / 19		
<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <span style="font-size: 24px; font-weight: bold;">791</span>  <span style="font-size: 24px; font-weight: bold;">847</span> </div>				

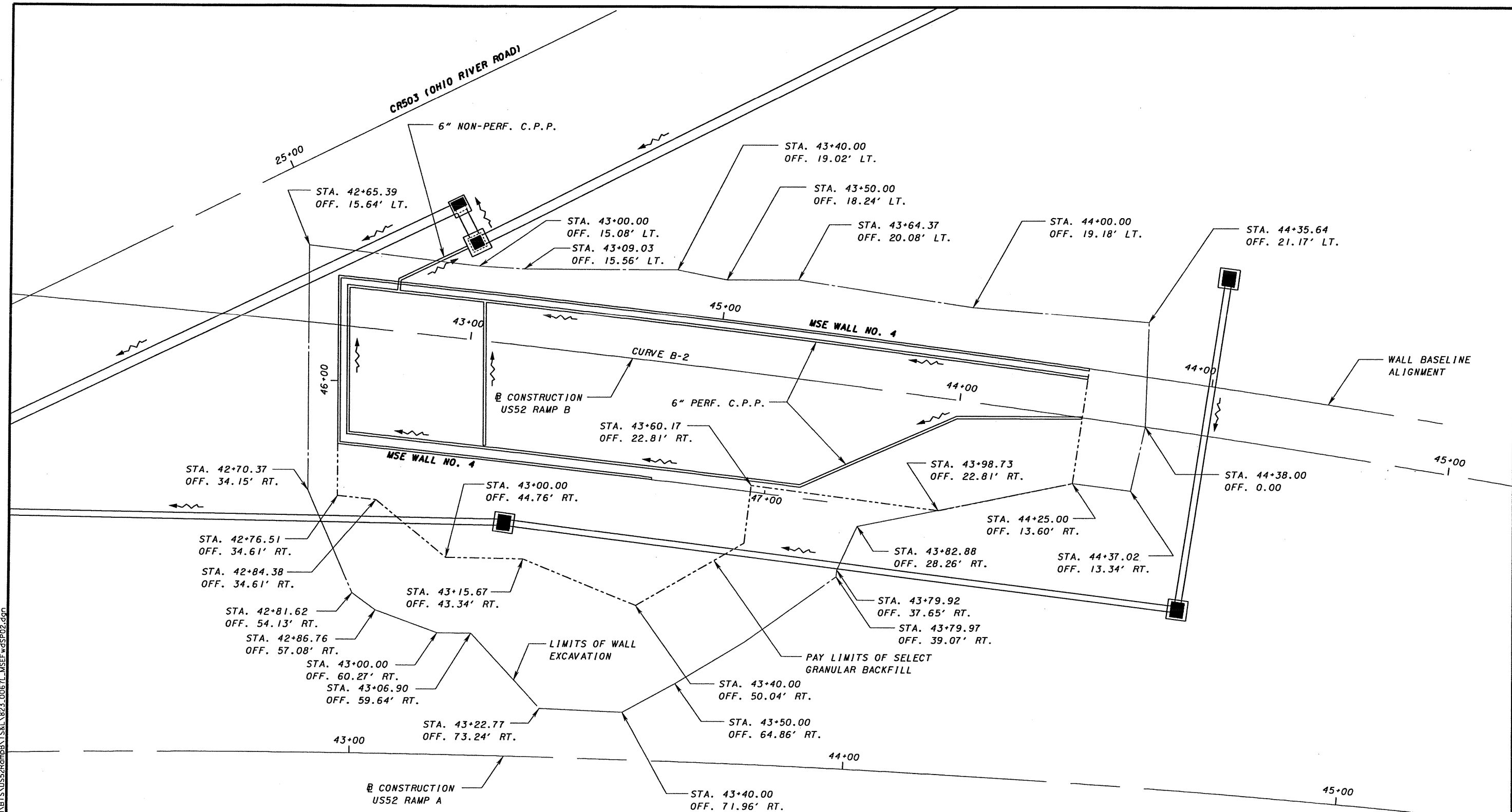
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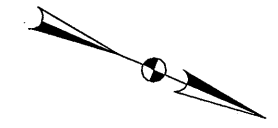
ELEVATION ALONG BASELINE WALL NO. 4

DESIGN AGENCY <b>Geo Systems</b> <small>750 EAST WTE RISE WAY, SUITE 200          COLUMBIANA, OHIO 43082</small>	REVIEWED MSL	DATE 09/26/07
	DRAWN DJR	STRUCTURE FILE NUMBER 7306261
DESIGNED MTN	CHECKED PJP	REVISIONS REVISED
MSE WALL ELEVATION - WALL NO. 4 BRIDGE NO. SC1-823-0067L US52 RAMP B OVER US52 AND CR503 (OHIO RIVER ROAD)		
SC1-823-0.00 PID 77366	15/19 792 847	





**US52 RAMP B**  
 CURVE NO. B-2  
 P.I. STA. 42+39.68  
 DELTA = 35° 28' 24" (RT.)  
 Dc = 1° 36' 00"  
 R = 3,580.99'  
 Ls = 200.00'  
 THETA = 1° 36' 00"  
 LT = 133.34'  
 ST = 66.67'  
 DELTA<sub>c</sub> = 32° 16' 24" (RT.)  
 Lc = 2,017.08'  
 Ts = 1,245.51'  
 Es = 179.20'

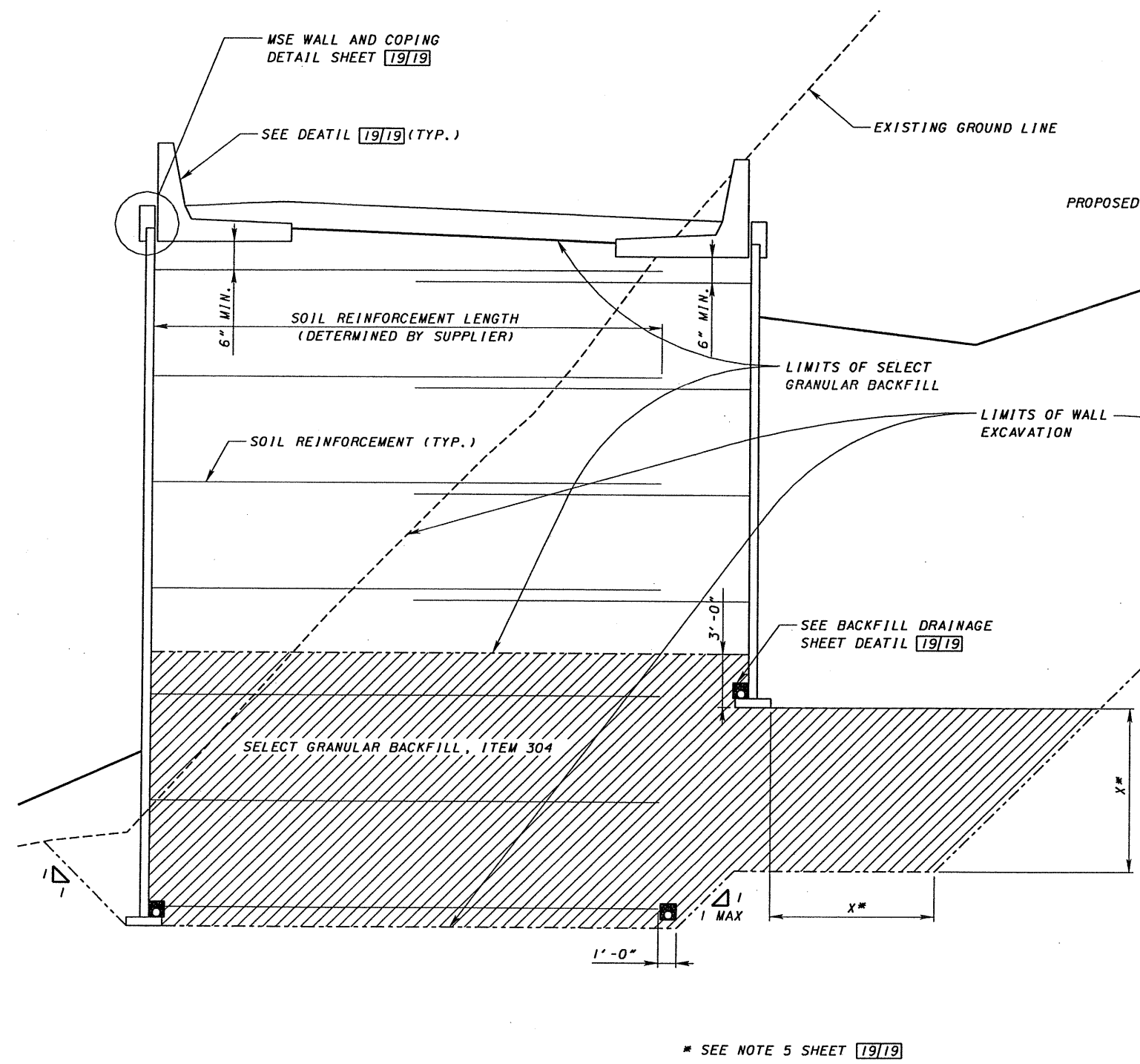


**NOTE:**  
 1. STATIONING GIVEN FROM US52 RAMP B @ UNLESS OTHERWISE NOTED  
 2. SEE MSE WALL LAYOUT PLAN FOR WALL GEOMETRY AND CURVE DATA.

5/14/29 PM 11/28/2007 g:\c003\0064\Bridges\CNBT\S\US52RampB\TSA\B23\_0067L\_MSEFWSP02.dgn

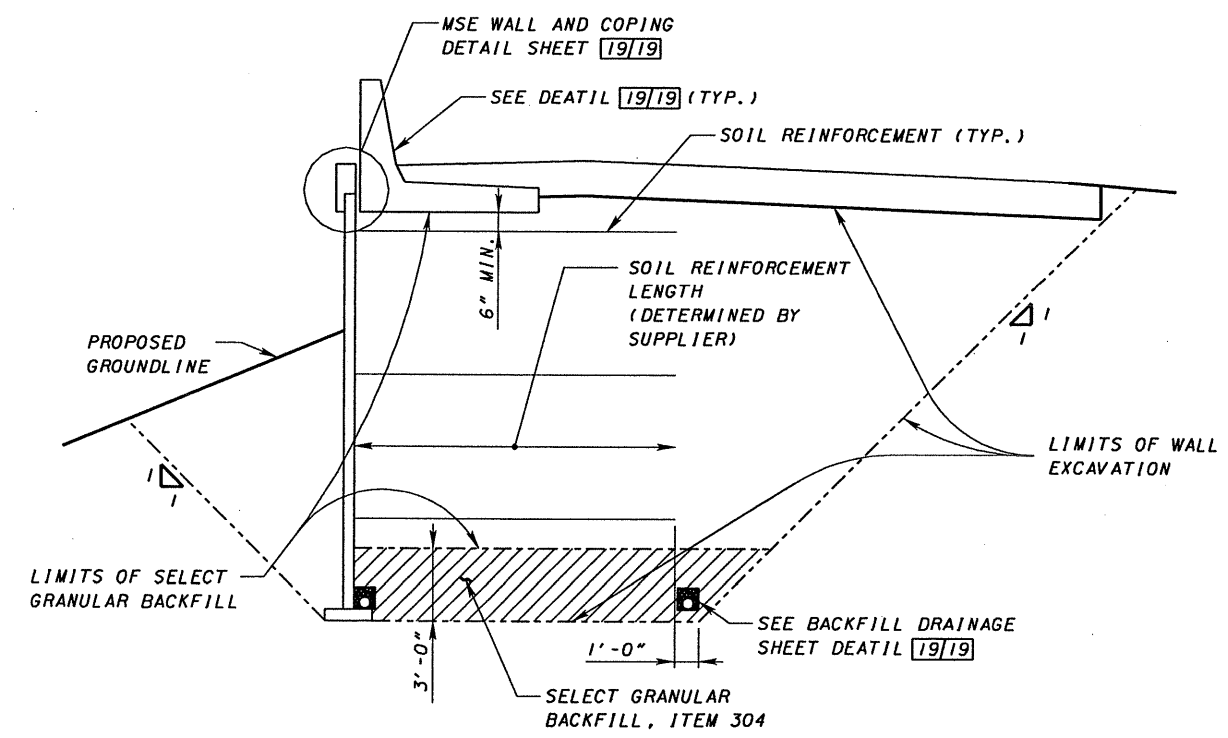


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**SECTION A-A**

\* SEE NOTE 5 SHEET 19/19



**SECTION B-B**

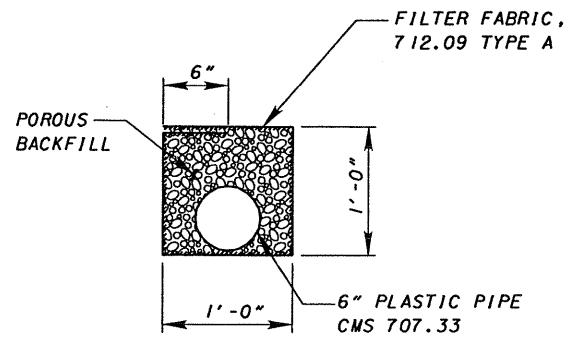


DESIGNED	MTN	CHECKED	PIP
DRAWN	DJR	REVISED	
REVIEWED	MSL	DATE	09/26/07
STRUCTURE FILE NUMBER	7.306261		

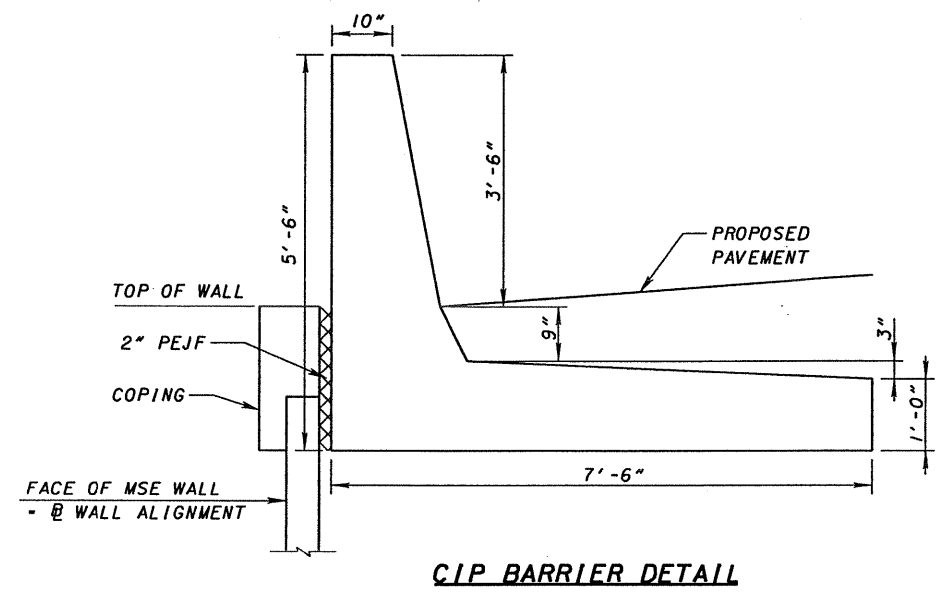
**MSE WALL DETAILS - WALL NO. 4**  
 BRIDGE NO. SC1-823-0067L  
 US52 RAMP B OVER US52 AND CR503 (OHIO RIVER RD.)

SC1-823-0.00  
 PID 77366

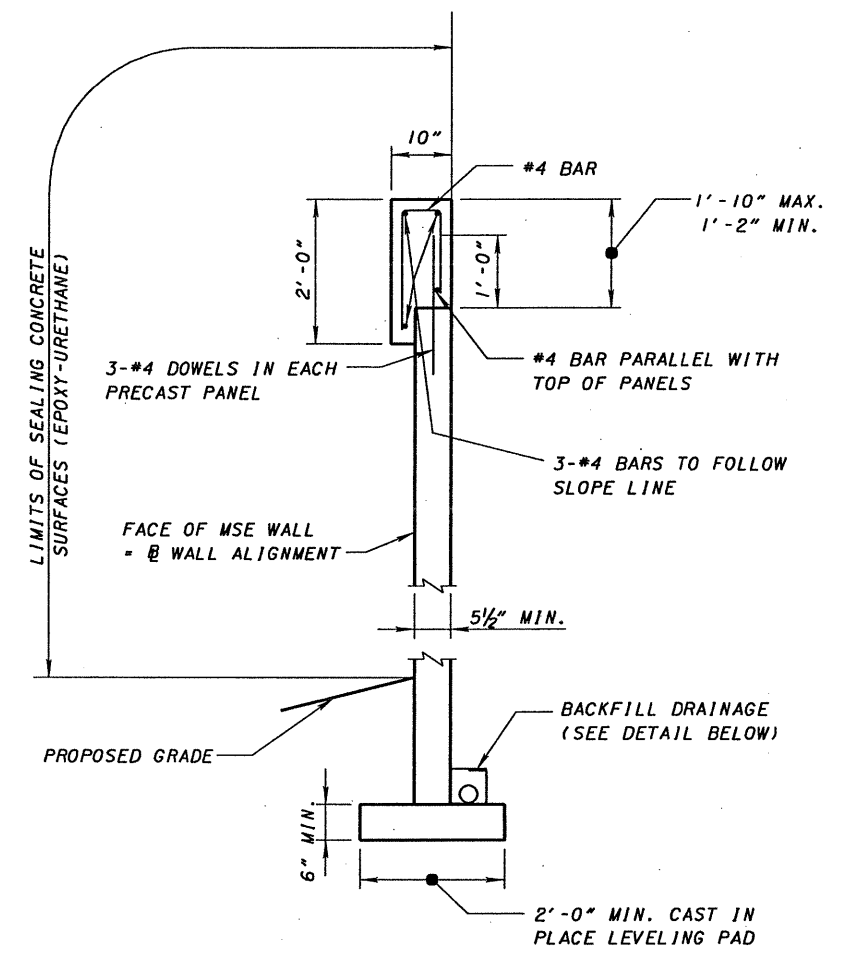
18/19  
 795  
 847



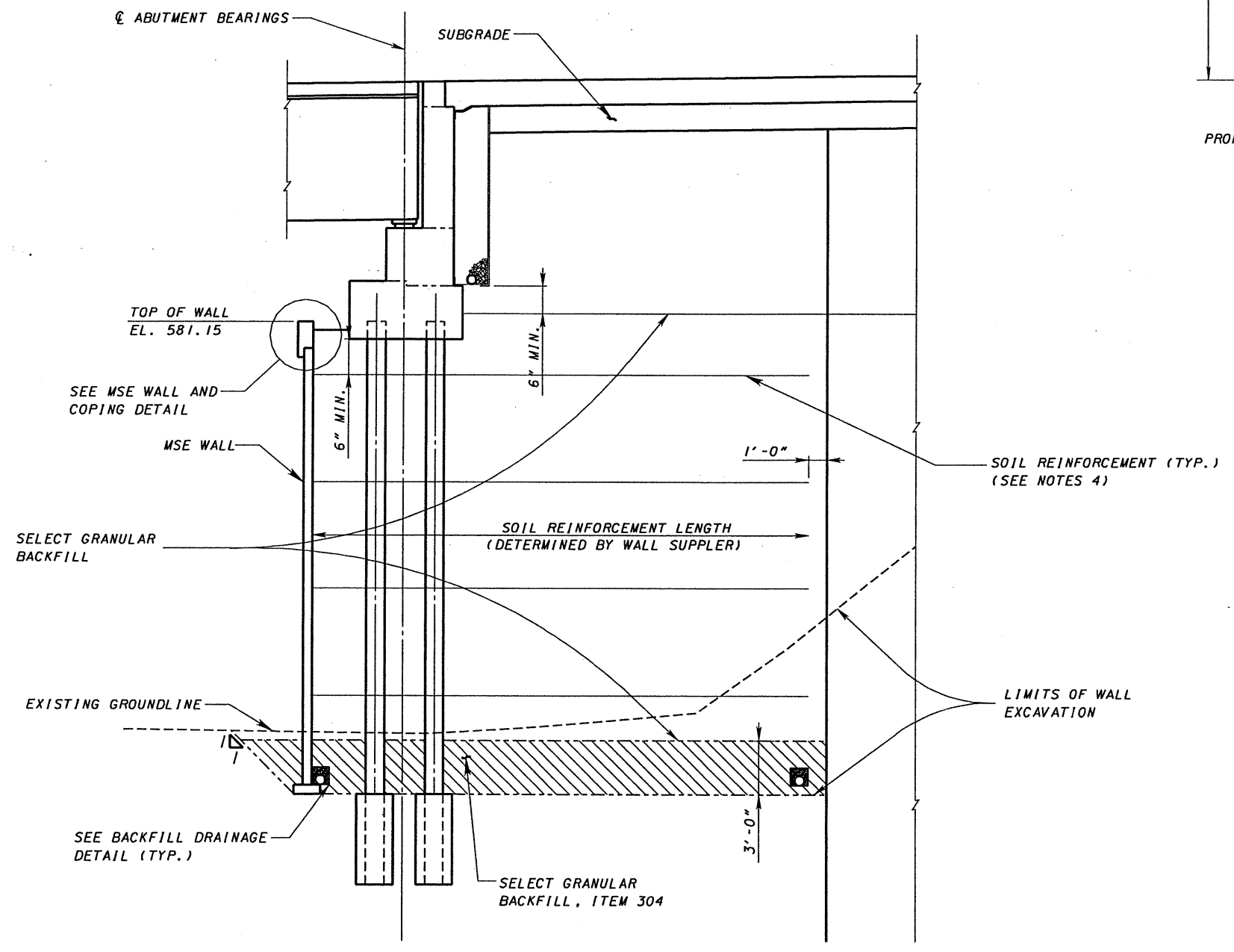
**BACKFILL DRAINAGE DETAIL**



**CIP BARRIER DETAIL**



**MSE WALL AND COPING DETAIL**

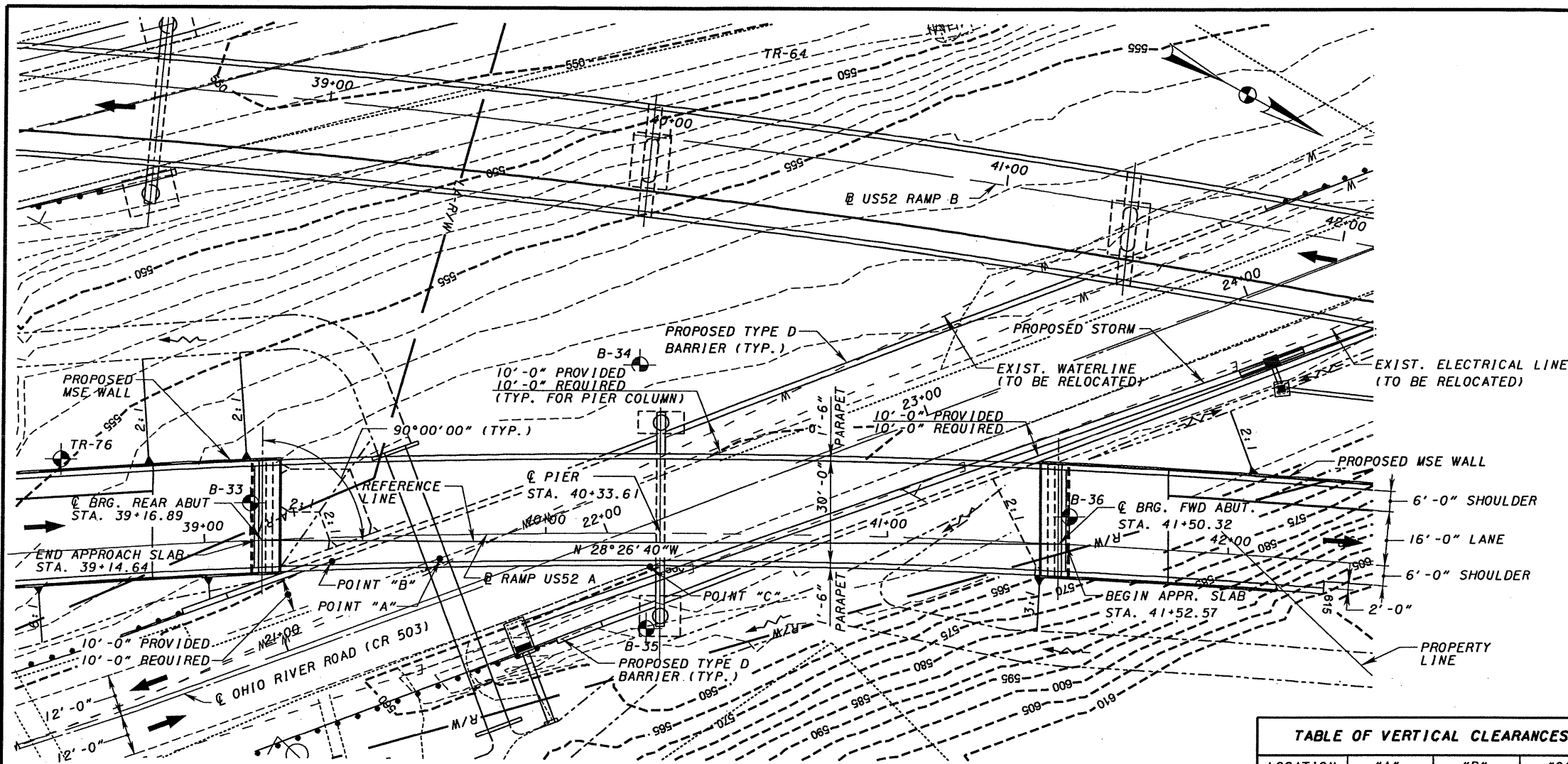


**SECTION A-A**

- 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. 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.
  5. WALL EXCAVATION SHALL EXTEND TO THE BOTTOM OF THE LEVELING PAD, AS SHOWN ON THE MSE WALL ELEVATION OR THE TOP OF ROCK. SEE SHEETS [5&16/19] FOR MSE WALL ELEVATIONS. THE WALL EXCAVATION SHALL EXTEND A DISTANCE IN FRONT OF THE LEVELING PAD EQUAL TO THE DEPTH OF EXCAVATION BELOW THE LEVELING PAD. THE DEPARTMENT WILL APPROVE WALL EXCAVATION PRIOR TO FOUNDATION PREPARATION.

11/28/2007 5:15:29 PM G:\CO03\0064\B1\dwg\CNNBTS\US52RampB\TSA1\_823\_006TL\_MSEF.wd02.dgn

DESIGNED	MTN
CHECKED	PJP
DRAWN	DJR
REVISED	
REVIEWED	MSL
DATE	09/26/07
STRUCTURE FILE NUMBER	7306261
<b>MSE WALL DETAILS - WALL NO. 4</b> BRIDGE NO. SC1-823-0067L US52 RAMP B OVER US52 AND CR503 (OHIO RIVER ROAD)	
SC1-823-0.00	PID 77366
19/19	796 847



PLAN

BENCHMARK 1	BENCHMARK 2
(TO BE PROVIDED LATER)	(TO BE PROVIDED LATER)

TRAFFIC DATA
US2 RAMP A CURRENT YEAR ADT (2010) - 6,700 DESIGN YEAR ADT (2030) - 10,500 CURRENT YEAR ADTT (2010) - 938 DESIGN YEAR ADTT (2030) - 1,470

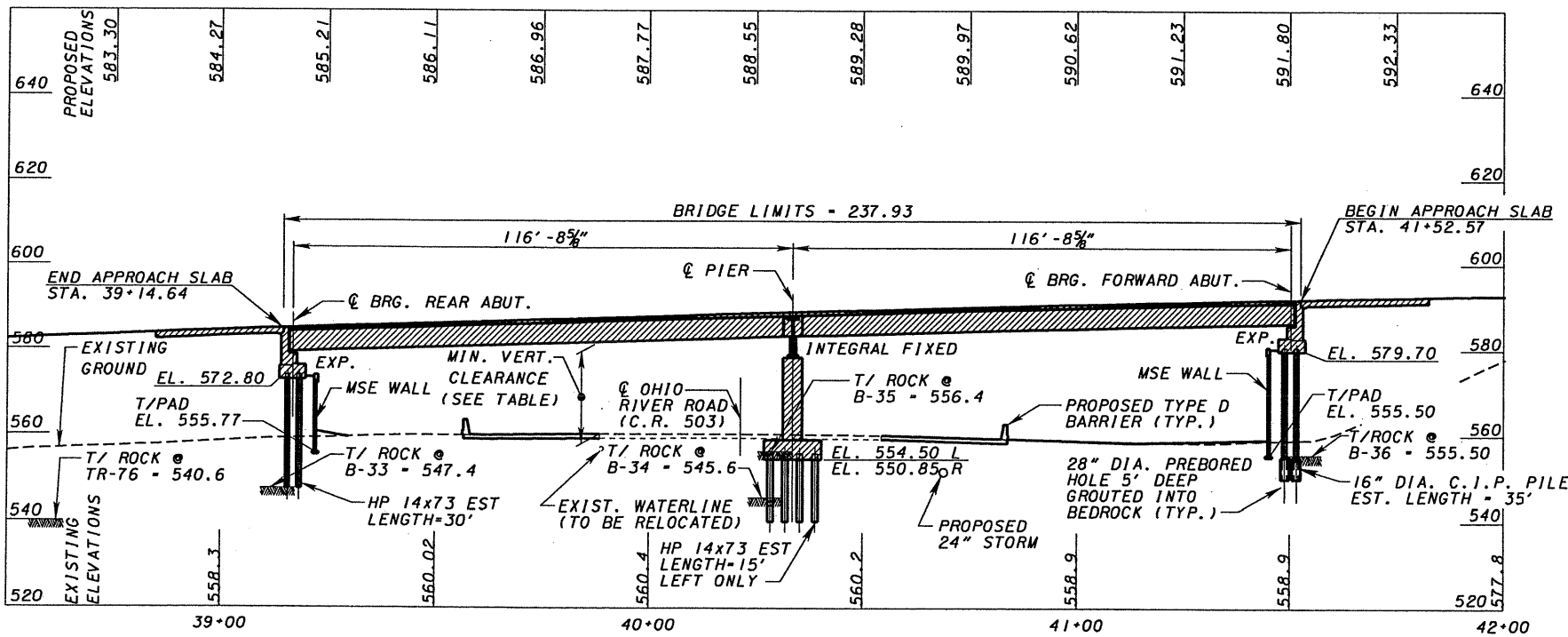
- NOTES:**
- ALL SHEETS WITH PLAN DIMENSIONS ARE SHOWN HORIZONTAL.
  - EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
  - THE PROPOSED PROFILE GRADE IS WITHIN BRIDGE LIMITS. SEE ROADWAY PLANS FOR PAVEMENT ELEVATIONS BEYOND BRIDGE LIMITS.

**HORIZONTAL CURVE DATA:**

**CURVE DATA (A-2)**  
 P.I. STA. - 44+55.69  
 DELTA - 38°05'00" (RT.)  
 Dc - 2°15'00"  
 R - 2,546.48'  
 Ls1 - 150.00'  
 Ls2 - 175.00'  
 Theta1 - 1°41'15"  
 Theta2 - 1°58'08"  
 LT1 - 100.00'  
 LT2 - 116.67'  
 ST1 - 50.00'  
 ST2 - 58.34'  
 Lc - 1,530.32'  
 Ts1 - 954.36  
 Ts2 - 966.48'  
 Es - 147.91'

TABLE OF VERTICAL CLEARANCES			
LOCATION	"A"	"B"	"C"
PROPOSED	20.19'	19.58'	17.92'
PREFERRED	17.0'	17.0'	17.0'

**900' VERT. CURVE DATA**  
 P.V.I. - STA. 41+70.00  
 P.V.I. EL. - 598.85  
 G<sub>1</sub> - +5.01%  
 G<sub>2</sub> - -0.88%



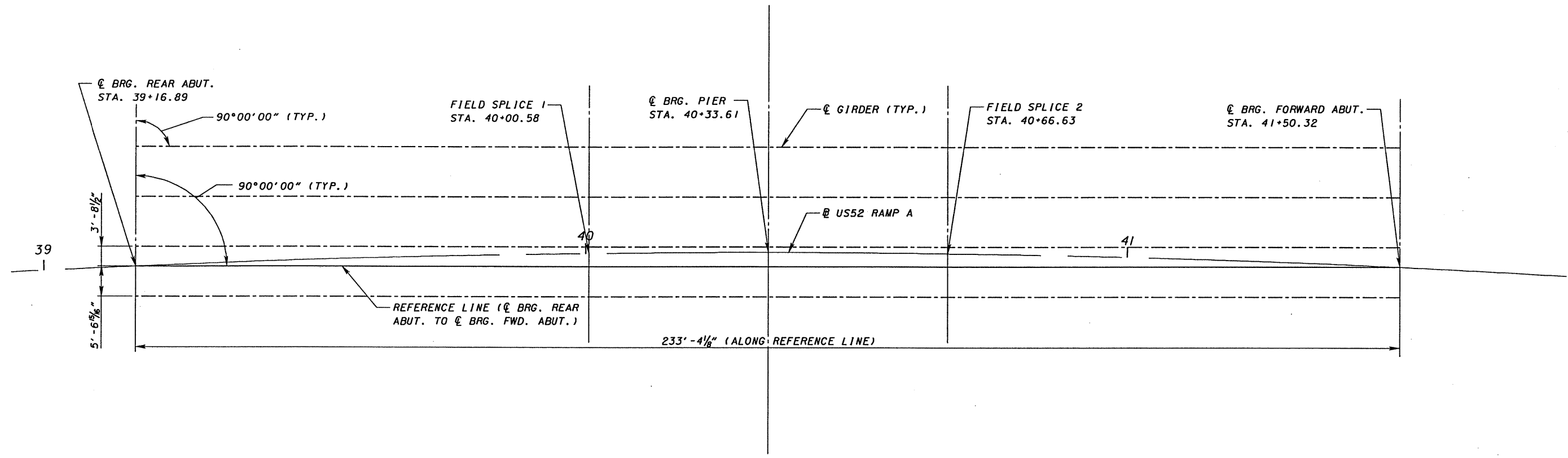
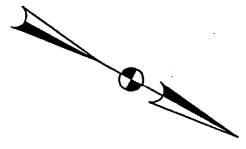
ELEVATION ALONG @ RAMP US2 A

**PROPOSED STRUCTURE**

TYPE: 2 SPAN CONTINUOUS STEEL PLATE GIRDER A709 GRADE 50W, WITH COMPOSITE REINFORCED CONCRETE DECK SUPPORTED ON INTEGRAL PIER AND STUB ABUTMENTS FOUNDED ON PILES AND MSE WALL EMBANKMENTS

SPANS: 116'-8 5/8", 116'-8 5/8" C/C BRG (ALONG @ RAMP A)  
 ROADWAY: 30' TOE-TO-TOE OF PARAPETS  
 LOADING: HS-25 (CASE 1) AND ALTERNATE MILITARY LOADING FWS-60 PSF  
 SKEW: 00°00'00" WITH RESPECT TO THE REFERENCE LINE (ALSO SEE FRAMING PLAN)  
 SUPERELEVATION: 0.056 FT/FT ACROSS LANE  
 ALIGNMENT: Dc - 2°15'00" CURVE TO THE RIGHT  
 WEARING SURFACE: MONOLITHIC CONCRETE  
 APPROACH SLABS: AS-1-81 (30' LONG)  
 LATITUDE: 38°44'52" N  
 LONGITUDE: 82°52'18" W

DESIGN AGENCY: **Systems**  
 DATE: 09/20/07  
 REVIEWED: MSL  
 DRAWN: MTN  
 CHECKED: FJP  
 DESIGNED: PJP  
 COUNTY: SCIOTO COUNTY  
 STA.: 39+14.64  
 STA.: 41+52.57  
 STRUCTURE FILE NUMBER: 7.306288  
 SITE PLAN  
 BRIDGE SCI-823-0074R  
 US2 RAMP A TO NB SR823 OVER CR503  
 SCI-823-0.00  
 PID 77366  
 1/16  
 797  
 847



**FRAMING PLAN**

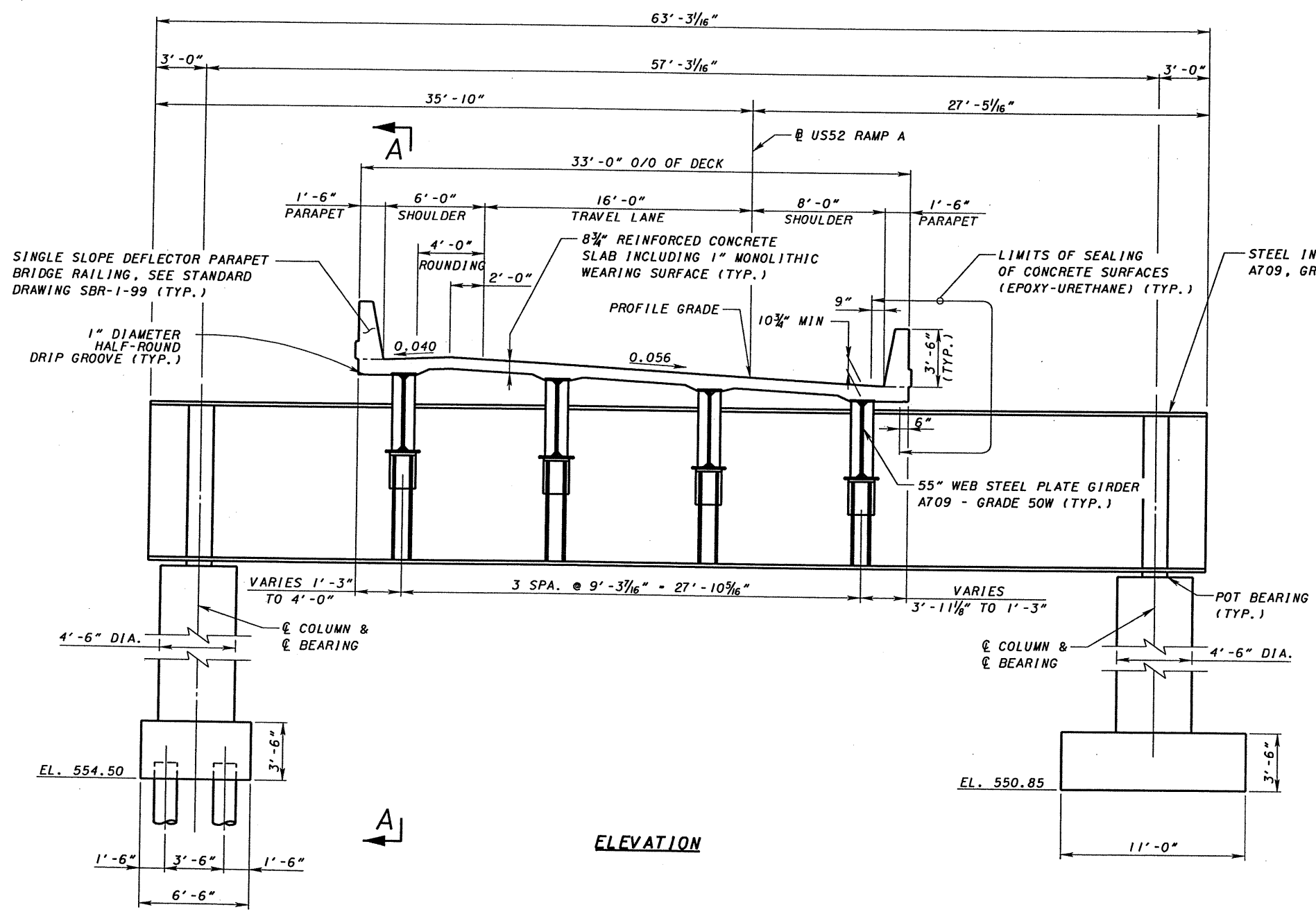
FROM	TO	GIRDER LENGTH	GIRDER SPACING*
☉ BRG. R. ABUT	SPLICE 1	83.65'	3 SPACES @ 9' - 3 <sup>7</sup> / <sub>16</sub> " ± = 27' - 10 <sup>5</sup> / <sub>16</sub> "
SPLICE 1	SPLICE 2	66.05'	3 SPACES @ 9' - 3 <sup>7</sup> / <sub>16</sub> " ± = 27' - 10 <sup>5</sup> / <sub>16</sub> "
SPLICE 2	☉ BRG. FWD. ABUT	83.65'	3 SPACES @ 9' - 3 <sup>7</sup> / <sub>16</sub> " ± = 27' - 10 <sup>5</sup> / <sub>16</sub> "

\* GIRDER SPACINGS ARE NORMAL TO GIRDER CENTERLINE

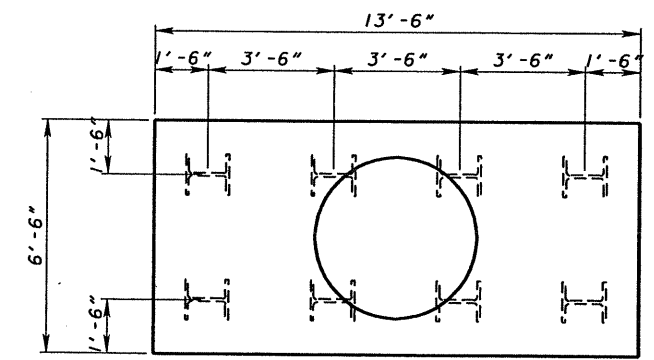
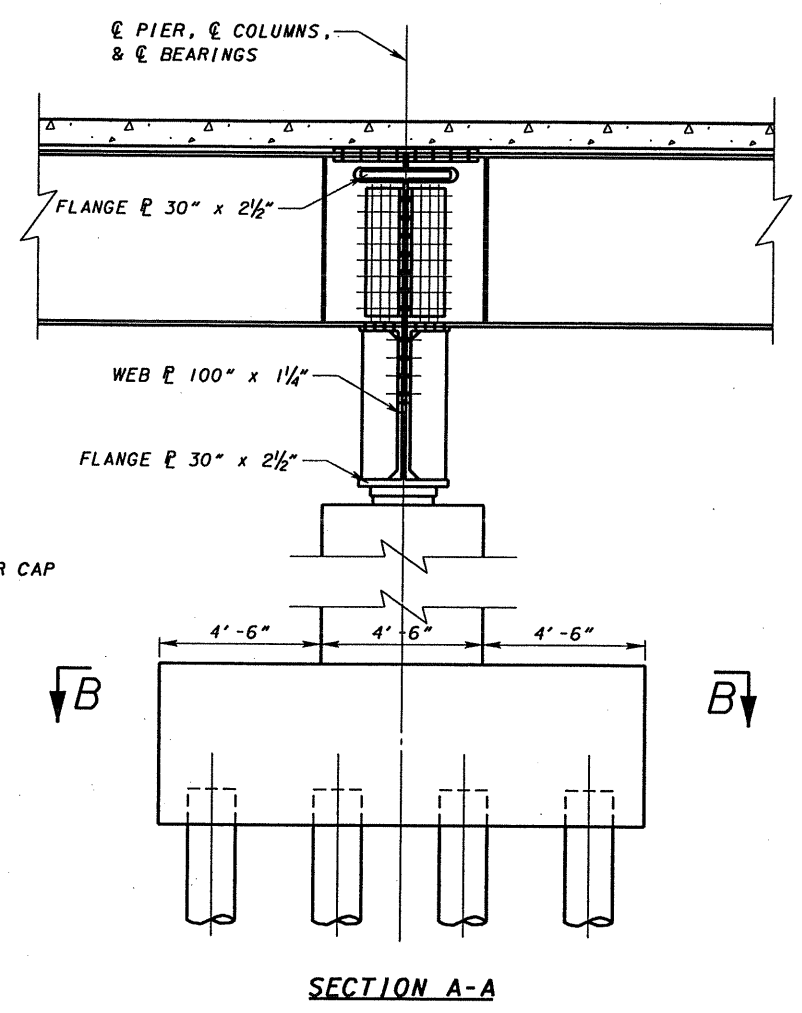
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4:44:56 PM 11/28/2007 g:\co03\0064\bridge\cm\lts\us52r\cmapd\1823\_0074r\1s01.dgn



ELEVATION

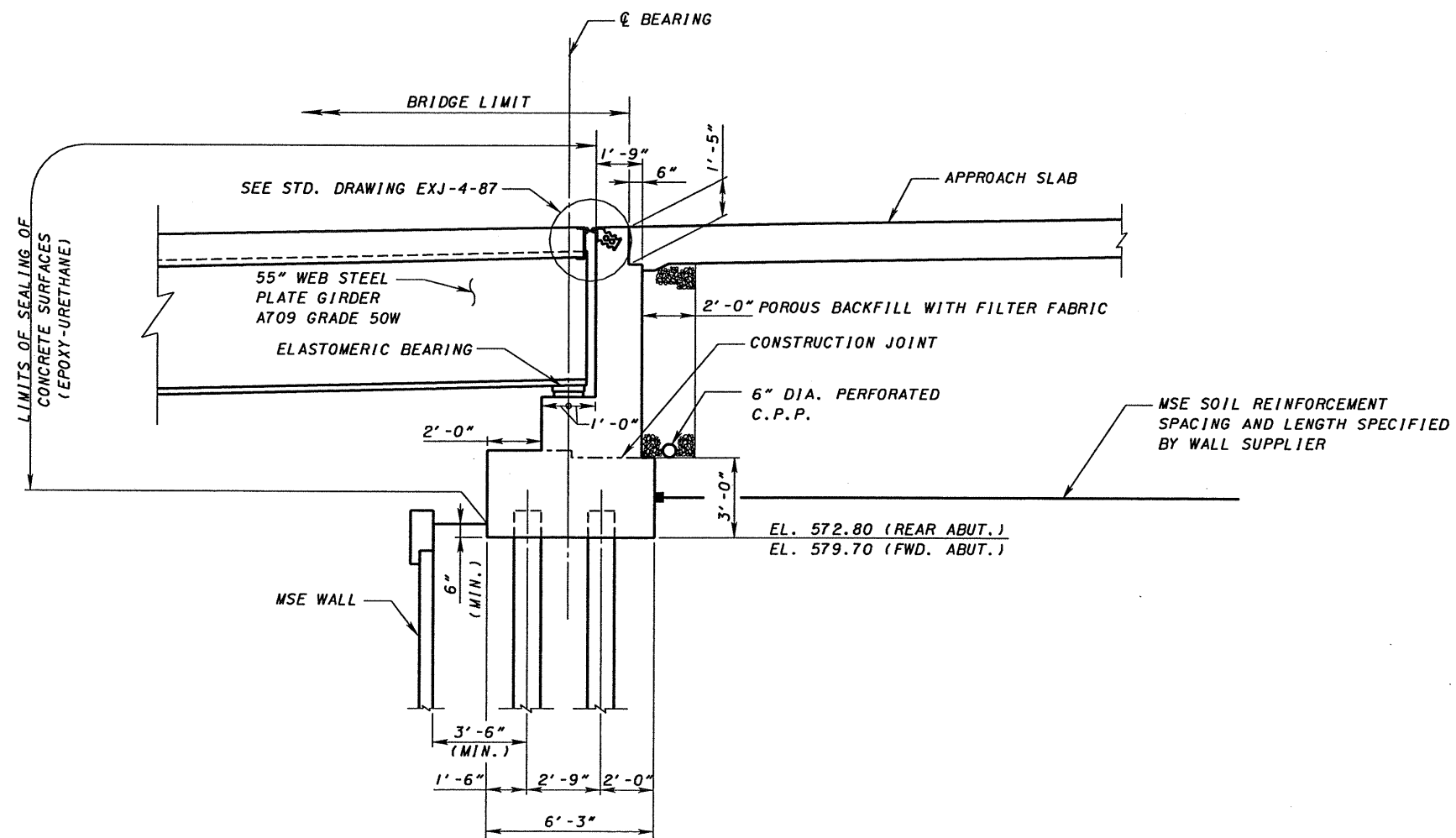


- NOTES:**
- SUBSTRUCTURE DIMENSIONS ARE MEASURED ALONG EL. PIER.
  - SUPERSTRUCTURE DIMENSIONS ARE MEASURED NORMAL TO EL. US52 RAMP A.

DESIGN AGENCY: **Train Systems**  
 DATE: 09/20/07  
 REVIEWED: MSL  
 DRAWN: MTN  
 DESIGNED: PJP  
 CHECKED: MTN  
 STRUCTURE FILE NUMBER: 7306288  
 TYPICAL TRANSVERSE SECTION  
 BRIDGE NO. SC1-823-0074R  
 US52 RAMP A TO NORTHBOUND SR823 OVER CR503  
 SC1-823-0.00  
 PID 77366  
 3 / 16  
 799  
 847

4:44:42 PM 11/28/2007 G:\CO03\006A\Bridges\G01\BTS\US52-amp\01\823-007-r-ab01.dgn

SUPERSTRUCTURE DEPTH	
ITEM	55" WEB STEEL PLATE GIRDER A709 GRADE 50W
SLAB (INCLUDING WEARING SURFACE)	8 3/4"
HAUNCH (BOTTOM OF SLAB TO TOP OF FLANGE)	2 1/4" (@ ABUT.) 2" (@ PIER)
GIRDER DEPTH	57.25" (@ ABUT.) 57.50" (@ PIER)
TOP OF WEARING SURFACE TO BOTTOM OF GIRDER FLANGE (INCH)	68.25" (@ ABUT.) 68.25" (@ PIER)
TOP OF WEARING SURFACE TO BOTTOM OF GIRDER FLANGE (FEET)	5.6875' (@ ABUT.) 5.6875' (@ PIER)



TYPICAL ABUTMENT SECTION

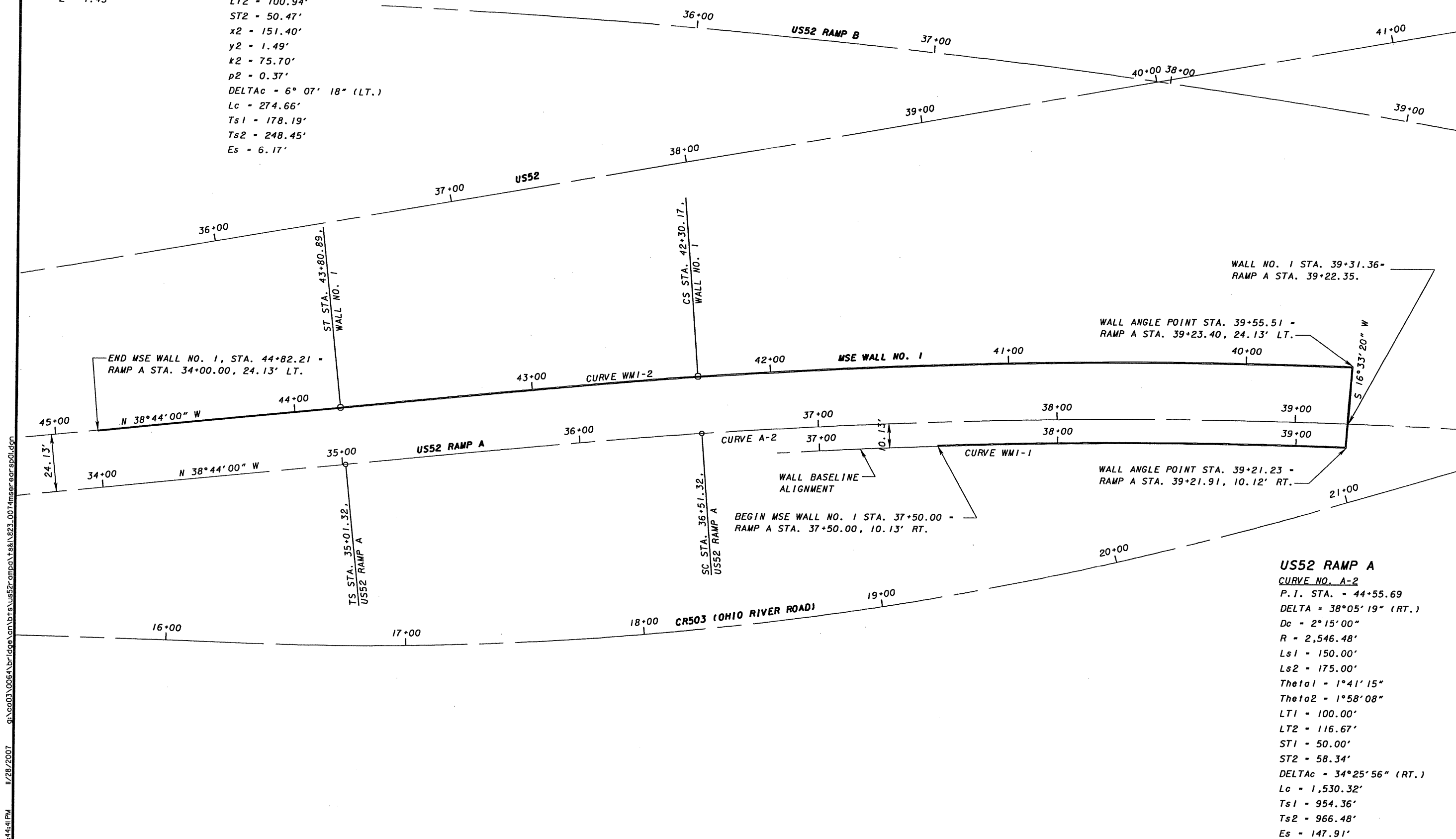
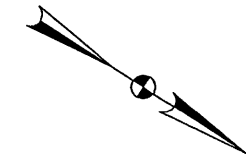
**MSE WALL NO. 1**

CURVE NO. WM1-1

P.I. Sta = 38+35.65  
 DELTA = 3° 52' 05" (RT.)  
 Dc = 2° 15' 32"  
 R = 2,536.35'  
 T = 85.65'  
 L = 171.23'  
 E = 1.45'

CURVE NO. WM1-2

P.I. Sta = 41+33.70  
 DELTA = 7° 48' 33" (LT.)  
 Dc = 2° 13' 44"  
 R = 2,570.60'  
 Ls2 = 151.41'  
 Theta2 = 1° 41' 15"  
 LT2 = 100.94'  
 ST2 = 50.47'  
 x2 = 151.40'  
 y2 = 1.49'  
 k2 = 75.70'  
 p2 = 0.37'  
 DELTAc = 6° 07' 18" (LT.)  
 Lc = 274.66'  
 Ts1 = 178.19'  
 Ts2 = 248.45'  
 Es = 6.17'



WALL NO. 1 STA. 39+31.36 -  
 RAMP A STA. 39+22.35.

WALL ANGLE POINT STA. 39+55.51 -  
 RAMP A STA. 39+23.40, 24.13' LT.

WALL ANGLE POINT STA. 39+21.23 -  
 RAMP A STA. 39+21.91, 10.12' RT.

BEGIN MSE WALL NO. 1 STA. 37+50.00 -  
 RAMP A STA. 37+50.00, 10.13' RT.

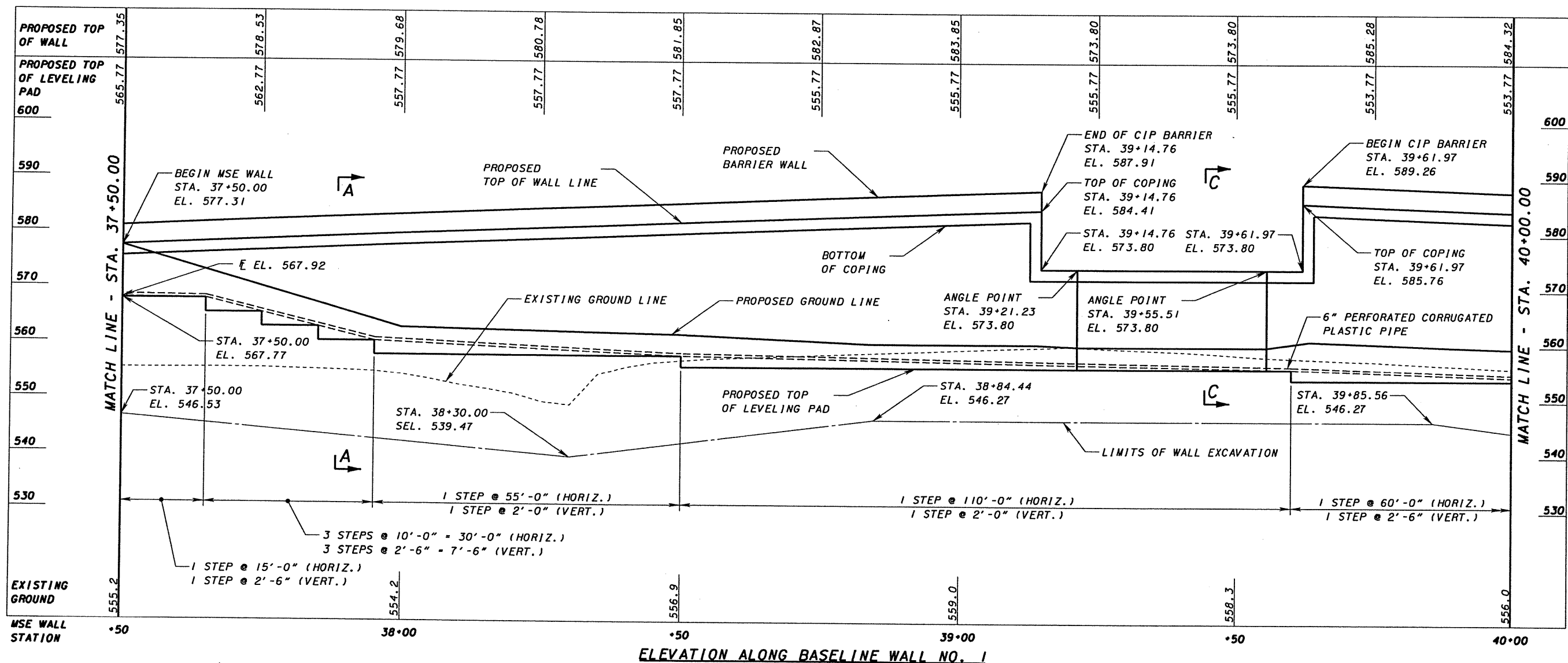
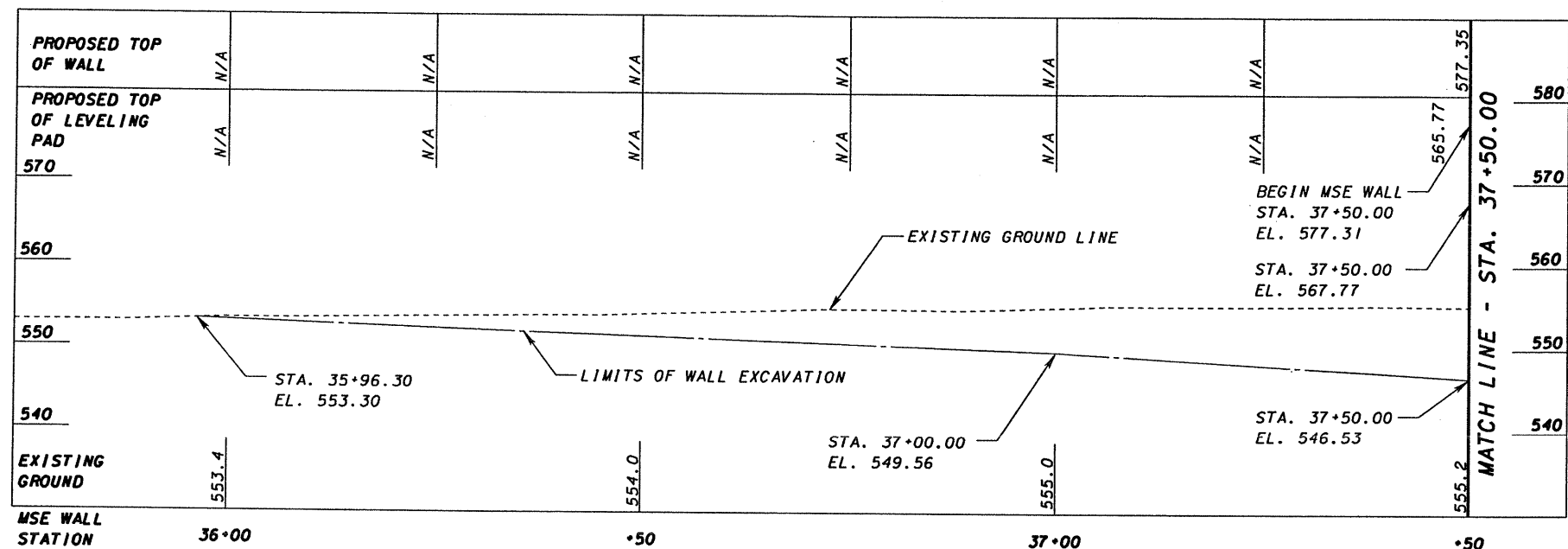
END MSE WALL NO. 1, STA. 44+82.21 -  
 RAMP A STA. 34+00.00, 24.13' LT.

**US52 RAMP A**  
 CURVE NO. A-2  
 P.I. STA. = 44+55.69  
 DELTA = 38°05'19" (RT.)  
 Dc = 2°15'00"  
 R = 2,546.48'  
 Ls1 = 150.00'  
 Ls2 = 175.00'  
 Theta1 = 1°41'15"  
 Theta2 = 1°58'08"  
 LT1 = 100.00'  
 LT2 = 116.67'  
 ST1 = 50.00'  
 ST2 = 58.34'  
 DELTAc = 34°25'56" (RT.)  
 Lc = 1,530.32'  
 Ts1 = 954.36'  
 Ts2 = 966.48'  
 Es = 147.91'

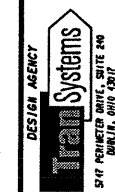
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DESIGNED	DATE
MTN	09/20/07
CHECKED	REVIEWED
PJP	MSL
	STRUCTURE FILE NUMBER
	7306288
<b>WALL SCHEMATIC PLAN - WALL NO. 1</b> BRIDGE NO. SCI-823-0074R US52 RAMP A OVER CR503 (OHIO RIVER RD)	
SCI-823-0.00 PID 77366	
5 / 16	
801 847	

11/28/2007 4:53:41 PM g:\0003\0064\Bridges\CON\BTS\US52RampA\TS&L\823\_0074RMSERear-01.dgn



ELEVATION ALONG BASELINE WALL NO. 1



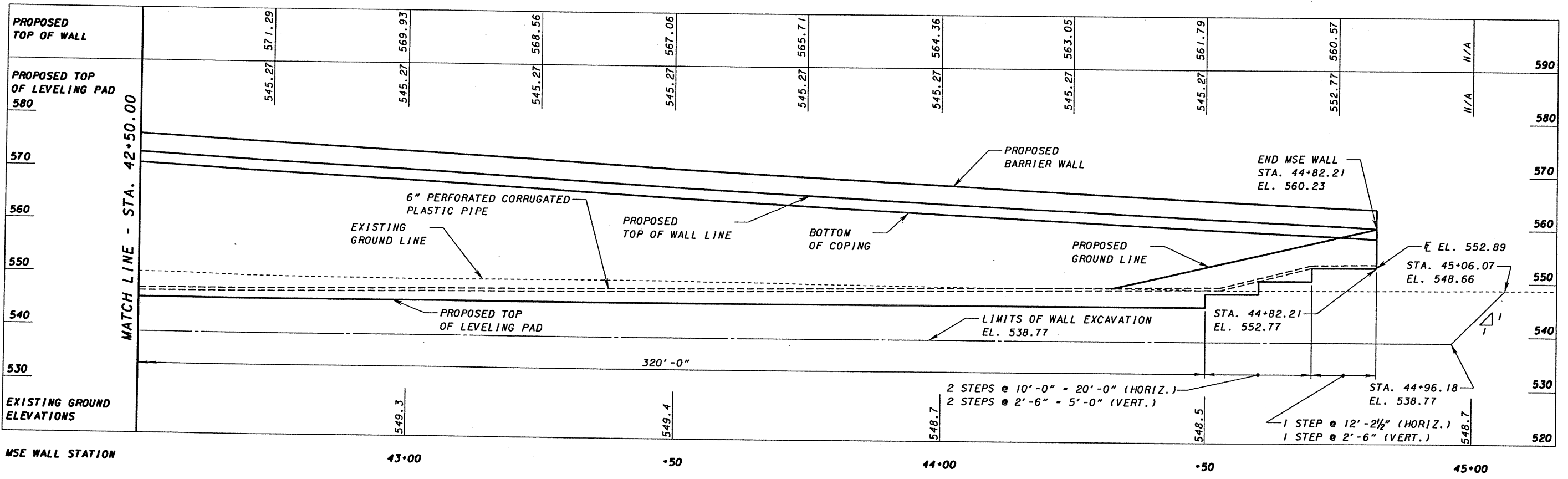
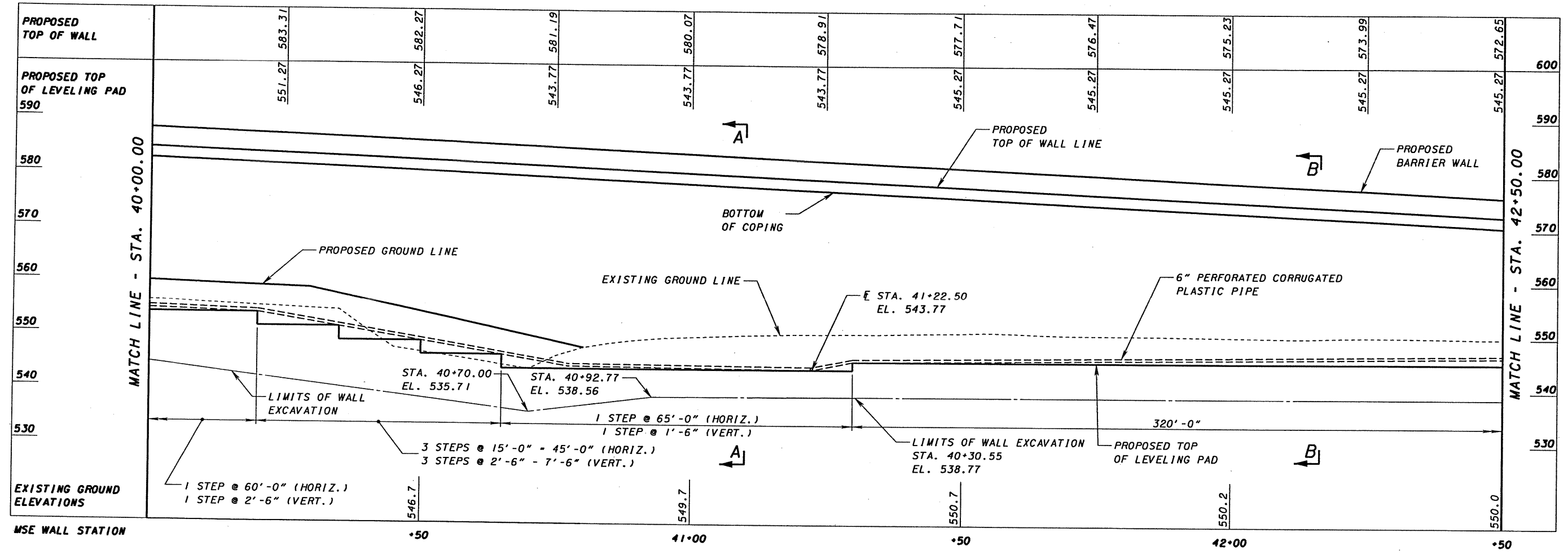
DESIGNED	MTN	CHECKED	PJP
DRAWN	DJR	REVISED	
REVIEWED	MSL	DATE	09/20/07
STRUCTURE FILE NUMBER	7306288		

MSE WALL ELEVATION - WALL NO. 1  
 BRIDGE NO. SC1-823-0074R  
 US52 RAMP A OVER CR503 (OHIO RIVER RD.)

SC1-823-0.00  
 PID 77366



4:55:28 PM 11/28/2007 g:\c003\0064\Bridg\CN\BTS\US52RampA\T5&L\B23\_0074RMSEReor010.dgn



ELEVATION ALONG BASELINE WALL NO. 1

DESIGNED: MTN  
CHECKED: PJP

DESIGN AGENCY: **Systems**  
547 PINEAVER DRIVE, SUITE 200  
DUBLIN, OHIO 43017

DATE: 09/20/07

REVIEWED: MSL

STRUCTURE FILE NUMBER: 7306288

DESIGNED: MTN

DRAWN: DJR

REVISOR: PJP

PROJECT: MSE WALL ELEVATION - WALL NO. 1

BRIDGE NO.: SCI-823-0074R

US52 RAMP A OVER CR503 (OHIO RIVER RD.)

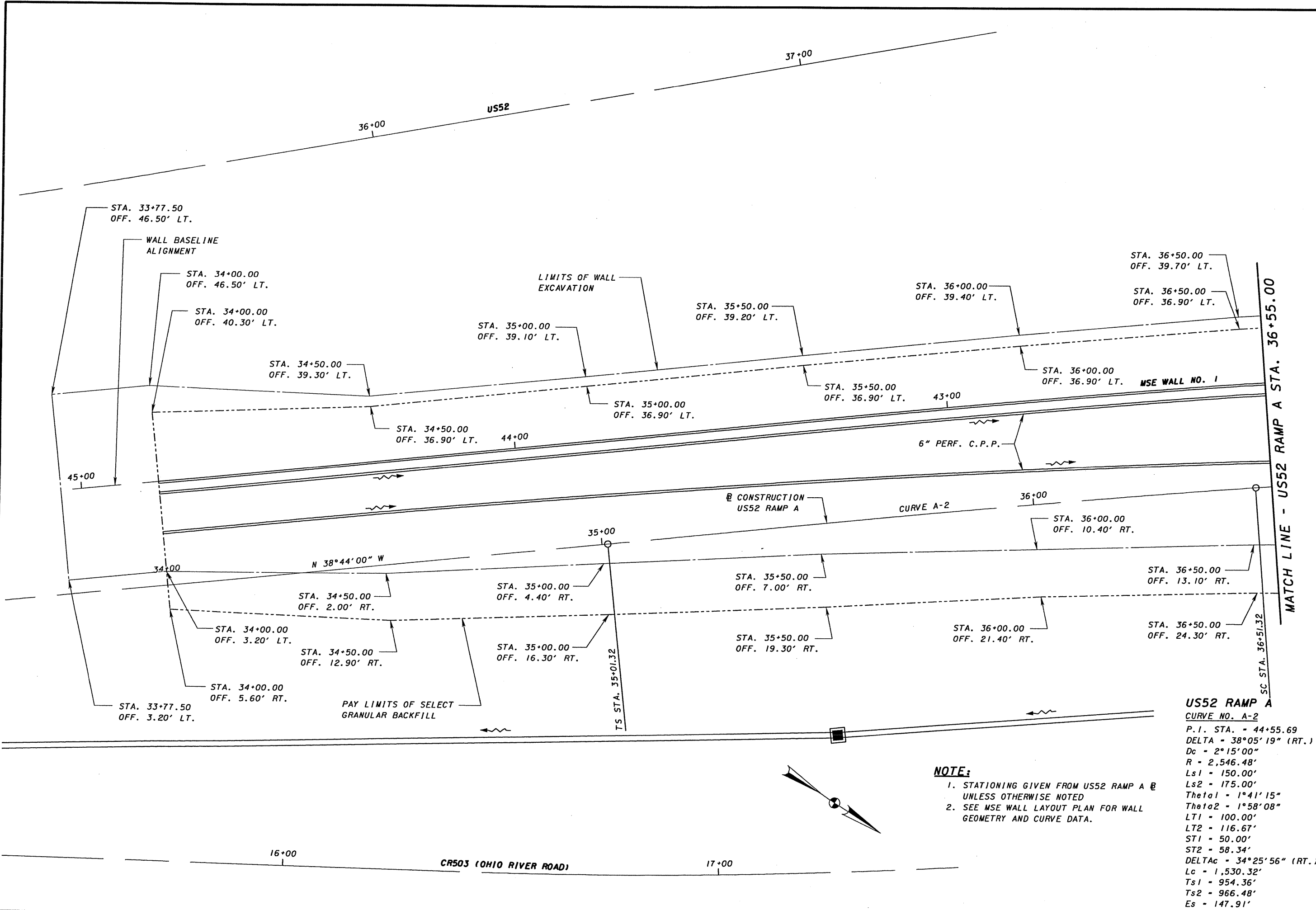
SCI-823-0.00

PID 77366

7/16

803  
847

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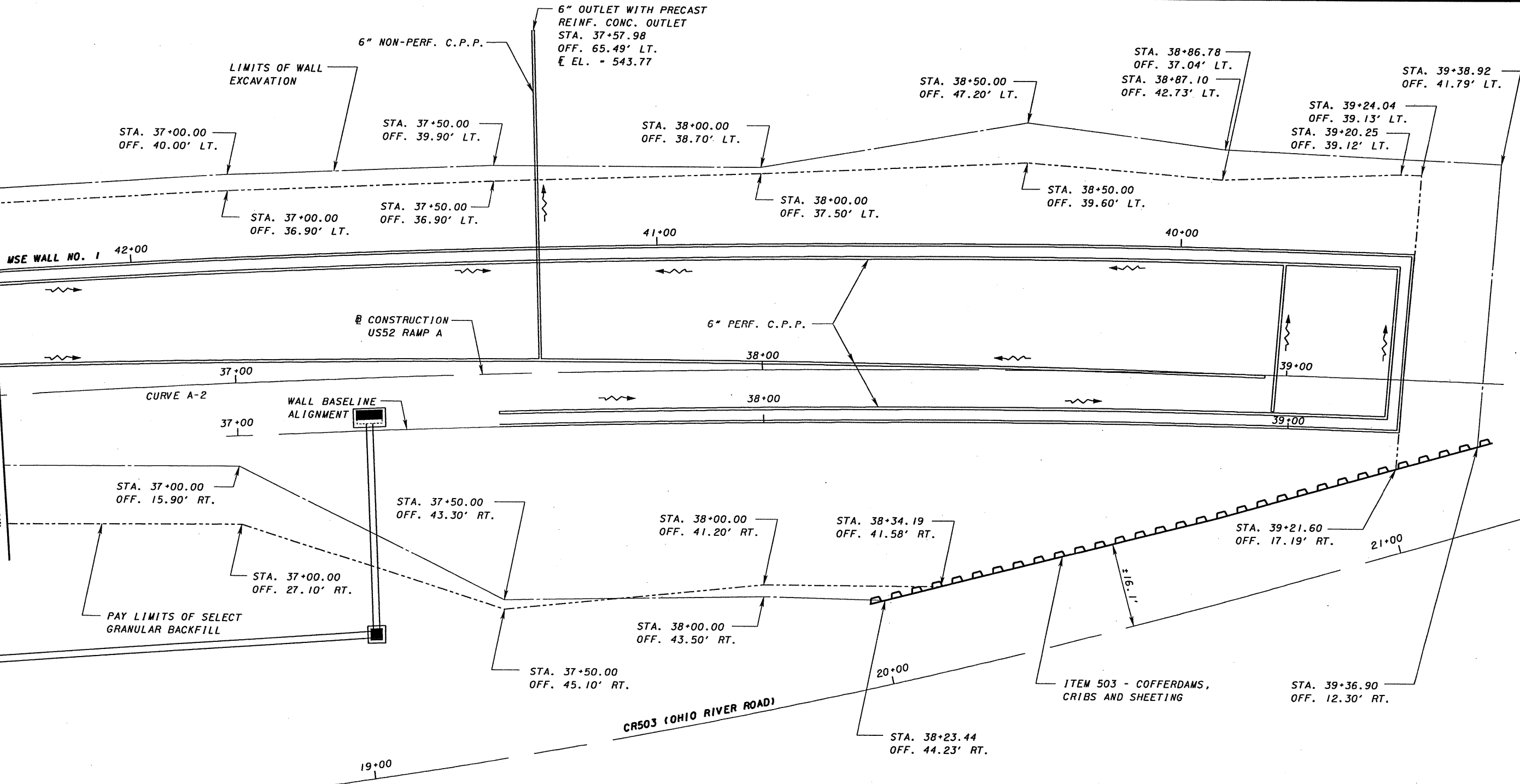
**NOTE:**  
 1. STATIONING GIVEN FROM US52 RAMP A @ UNLESS OTHERWISE NOTED  
 2. SEE MSE WALL LAYOUT PLAN FOR WALL GEOMETRY AND CURVE DATA.

**US52 RAMP A**  
 CURVE NO. A-2  
 P.I. STA. = 44+55.69  
 DELTA = 38°05'19" (RT.)  
 Dc = 2°15'00"  
 R = 2,546.48'  
 Ls1 = 150.00'  
 Ls2 = 175.00'  
 Theta1 = 1°41'15"  
 Theta2 = 1°58'08"  
 LT1 = 100.00'  
 LT2 = 116.67'  
 ST1 = 50.00'  
 ST2 = 58.34'  
 DELTAc = 34°25'56" (RT.)  
 Lc = 1,530.32'  
 Ts1 = 954.36'  
 Ts2 = 966.48'  
 Es = 147.91'

DESIGN AGENCY <b>TRM Systems</b> 500 KILMETER DRIVE, SUITE 200 MOUNTAIN VIEW, MO 64157	
DATE 09/20/07	REVIEWED MSL
STRUCTURE FILE NUMBER 7306288	DRAWN CAS
DESIGNED MTN	CHECKED PJP
MSE WALL EXCAVATION AND DRAINAGE PLAN - WALL NO. 1	
BRIDGE NO. SC1-823-0074R	
US52 RAMP A OVER CR503 (OHIO RIVER RD.)	
SC1-823-0.00	PID 77366
8/16	804/847

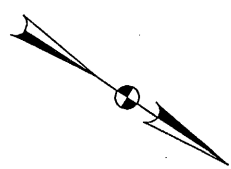
11/28/2007 9:00:01 PM G:\CO03\0064\Bridges\CN\BTS\US52RampA\TS&L\B23\_0074MSEReor.sp02.dgn

MATCH LINE - US52 RAMP A STA. 36+55.00



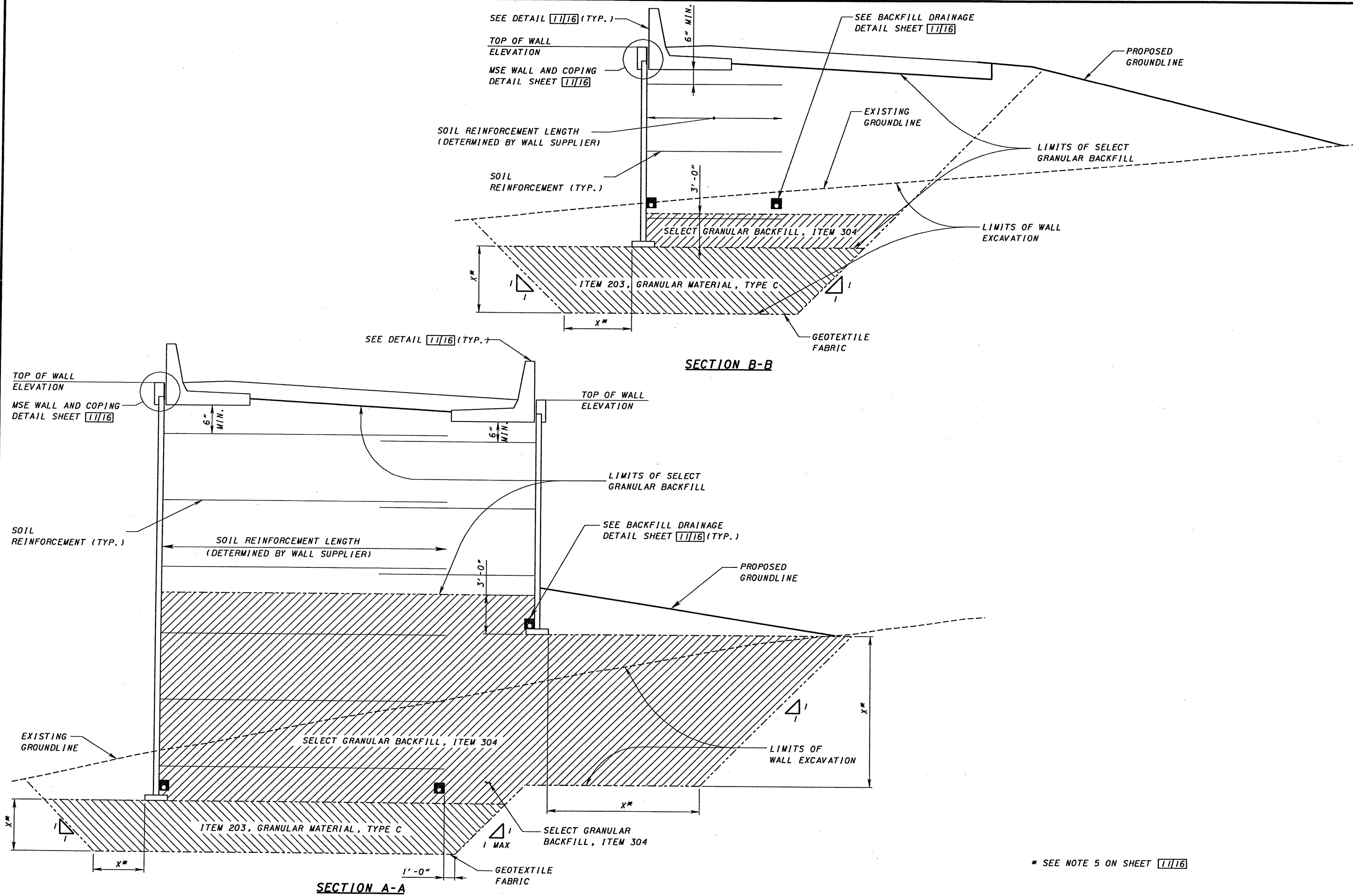
**US52 RAMP A**  
 CURVE NO. A-2  
 P.I. STA. = 44+55.69  
 DELTA = 38°05'19" (RT.)  
 Dc = 2°15'00"  
 R = 2,546.48'  
 Ls1 = 150.00'  
 Ls2 = 175.00'  
 Theta1 = 1°41'15"  
 Theta2 = 1°58'08"  
 LT1 = 100.00'  
 LT2 = 116.67'  
 ST1 = 50.00'  
 ST2 = 58.34'  
 DELTAc = 34°25'56" (RT.)  
 Lc = 1,530.32'  
 Ts1 = 954.36'  
 Ts2 = 966.48'  
 Es = 147.91'

**NOTE:**  
 1. STATIONING GIVEN FROM US52 RAMP A @ UNLESS OTHERWISE NOTED  
 2. SEE MSE WALL LAYOUT PLAN FOR WALL GEOMETRY AND CURVE DATA.



	DESIGN AGENCY	DATE
	TRIM SYSTEMS	09/20/07
REVIEWED	MSL	STRUCTURE FILE NUMBER
7306288	CAS	7306288
DESIGNED	MTN	CHECKED
PJP	PJP	
WASTE WALL EXCAVATION AND DRAINAGE PLAN - WALL NO. 1 BRIDGE NO. SC1-823-0074R US52 RAMP A OVER CR503 (OHIO RIVER RD.)		
SC1-823-0.00 PID 77366	9/16 805 847	

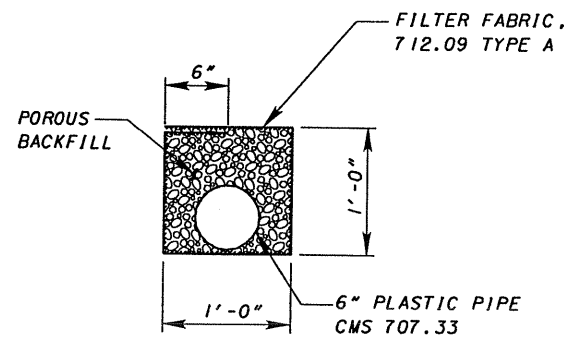
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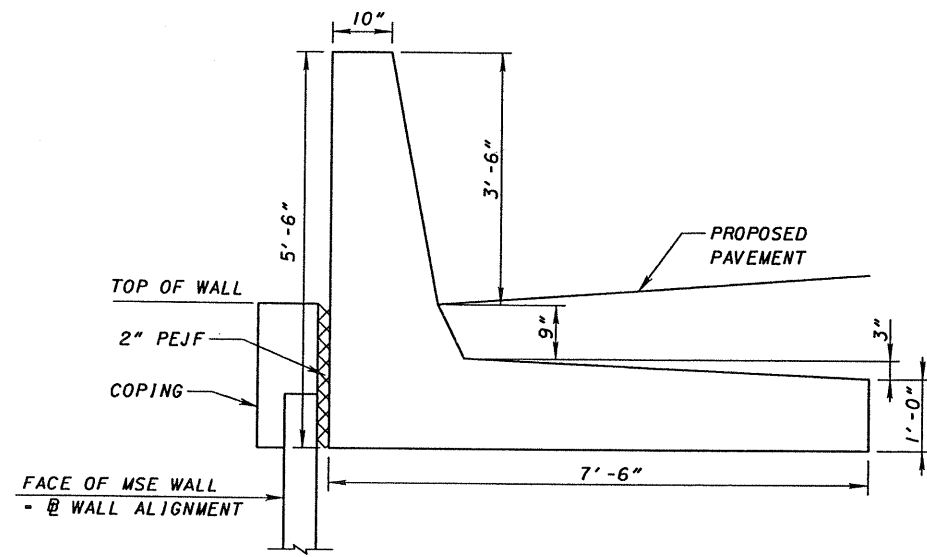
\* SEE NOTE 5 ON SHEET 1116

DESIGNED	DATE
MTN	09/20/07
CHECKED	STRUCTURE FILE NUMBER
PJP	7306288
DESIGNED	DATE
MTN	09/20/07
CHECKED	STRUCTURE FILE NUMBER
PJP	7306288
<b>MSE WALL DETAILS - WALL NO. 1</b> BRIDGE NO. SCI-823-0074R US52 RAMP A OVER CR503 (OHIO RIVER RD.)	
SCI-823-0.00	PID 77366
10/16	806/847

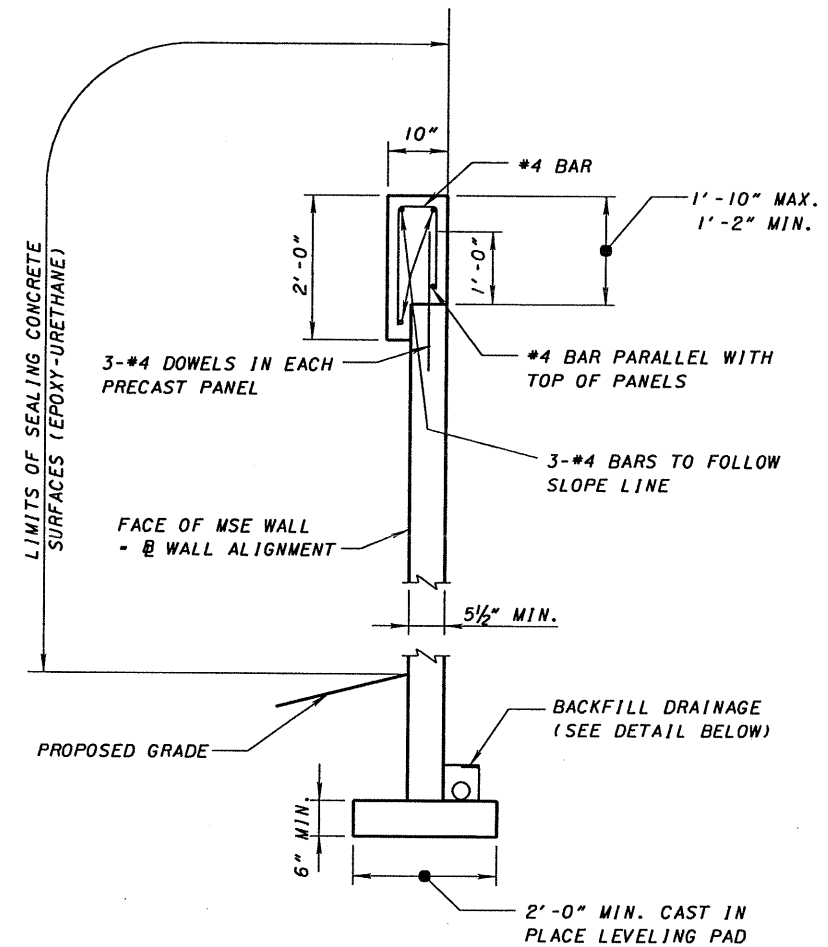




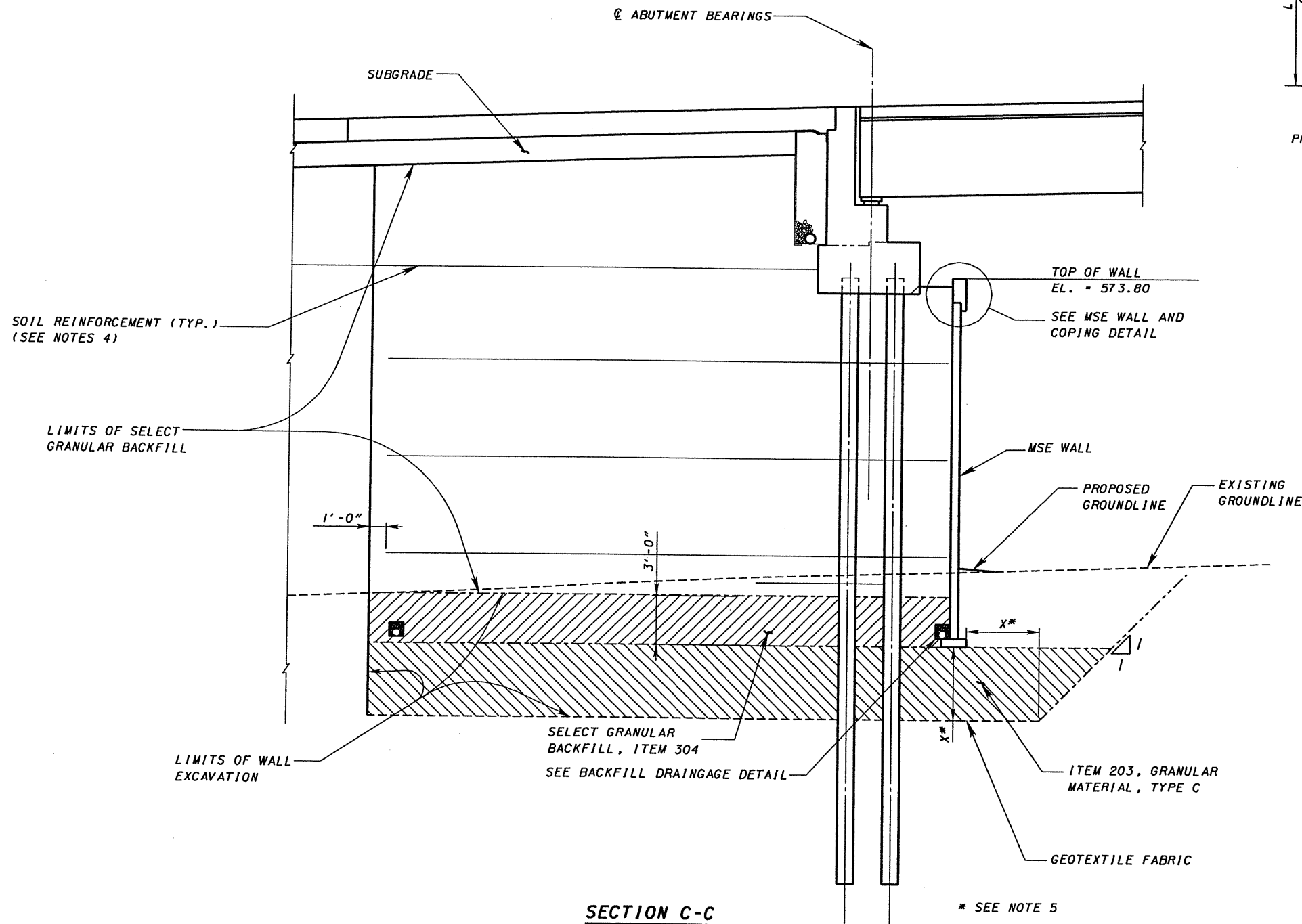
**BACKFILL DRAINAGE DETAIL**



**CIP BARRIER DETAIL**



**MSE WALL AND COPING DETAIL**



**SECTION C-C**

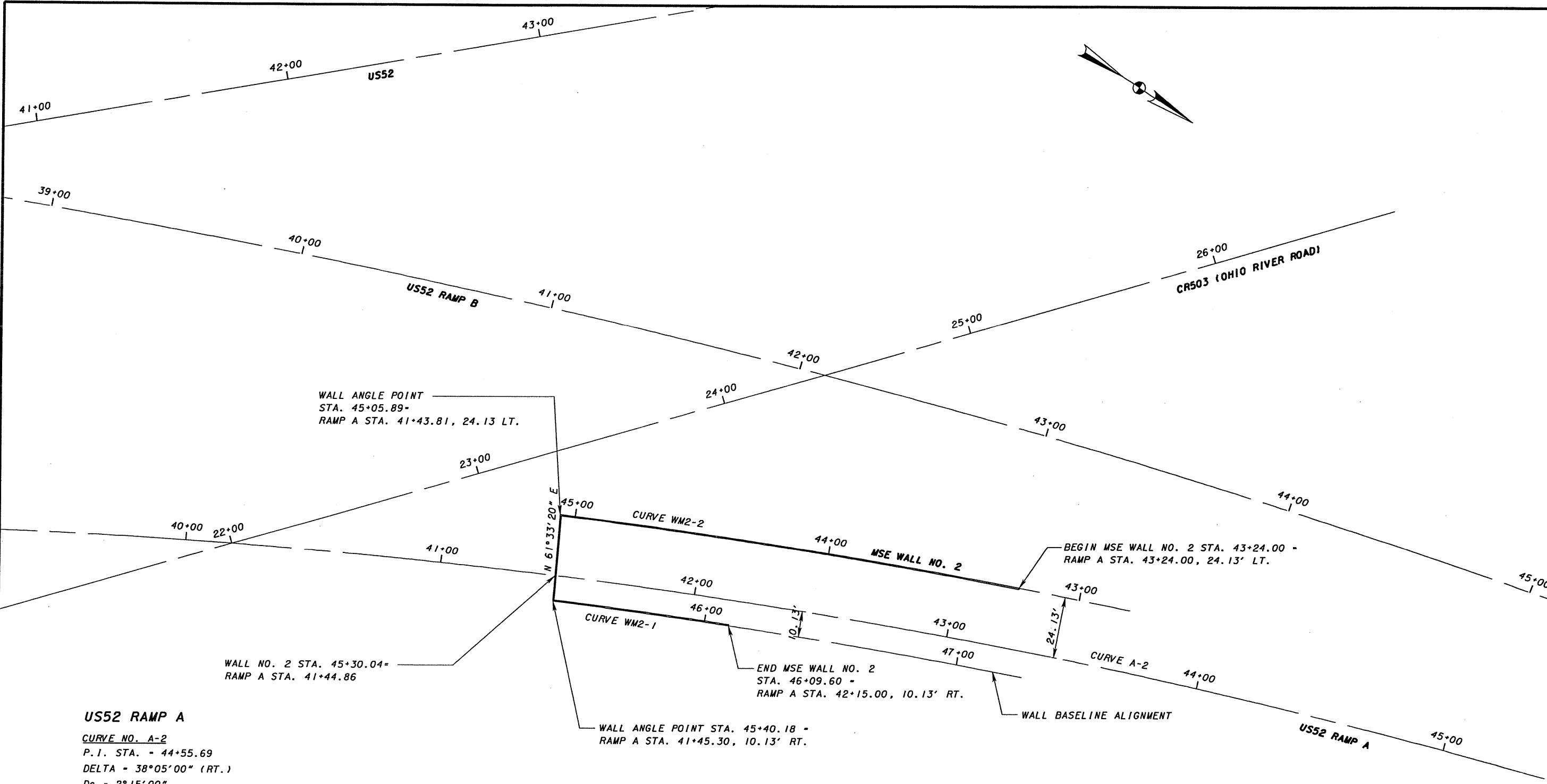
\* SEE NOTE 5

**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. 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.
5. SEE MSE WALL ELEVATION SHEET 58716 FOR THE LIMIT OF WALL EXCAVATION ELEVATION. THE WALL EXCAVATION SHALL EXTEND IN FRONT OF THE WALL DISTANCE EQUAL TO THE DEPTH OF EXCAVATION BELOW THE LEVELING PAD.

11/28/2007 5:02:21 PM G:\C003\0064\Bridges\CON\BTS\US52RampA\TS&L\B23\_0074RMSERear-02.dgn

4:44:40 PM 11/28/2007 91:CO03\0064\Bridges\CNN\BTS\US52RampA\TSS\823-0074MSEF.wdsg01.dgn



**US52 RAMP A**

CURVE NO. A-2  
 P.I. STA. = 44+55.69  
 DELTA = 38°05'00" (RT.)  
 Dc = 2°15'00"  
 R = 2,546.48'  
 Ls1 = 150.00'  
 Ls2 = 175.00'  
 Theta1 = 1°41'15"  
 Theta2 = 1°58'08"  
 LT1 = 100.00'  
 LT2 = 116.67'  
 ST1 = 50.00'  
 ST2 = 58.34'  
 DETLAc = 34°25'56" (RT.)  
 Lc = 1,530.32'  
 Ts1 = 954.36  
 Ts2 = 966.48'  
 Es = 147.91'

**MSE WALL NO. 2**

<u>CURVE NO. WM2-1</u>	<u>CURVE NO. WM2-2</u>
P.I. STA 45+74.89	P.I. STA 44+14.99
DELTA = 1°34'06"	DELTA = 4°03'15"
R = 2536.35	R = 2570.60
T = 34.71	T = 90.99
L = 69.42	L = 181.89
E = 0.24	E = 1.61


WALL ANGLE POINT  
 STA. 45+05.89 =  
 RAMP A STA. 41+43.81, 24.13 LT.

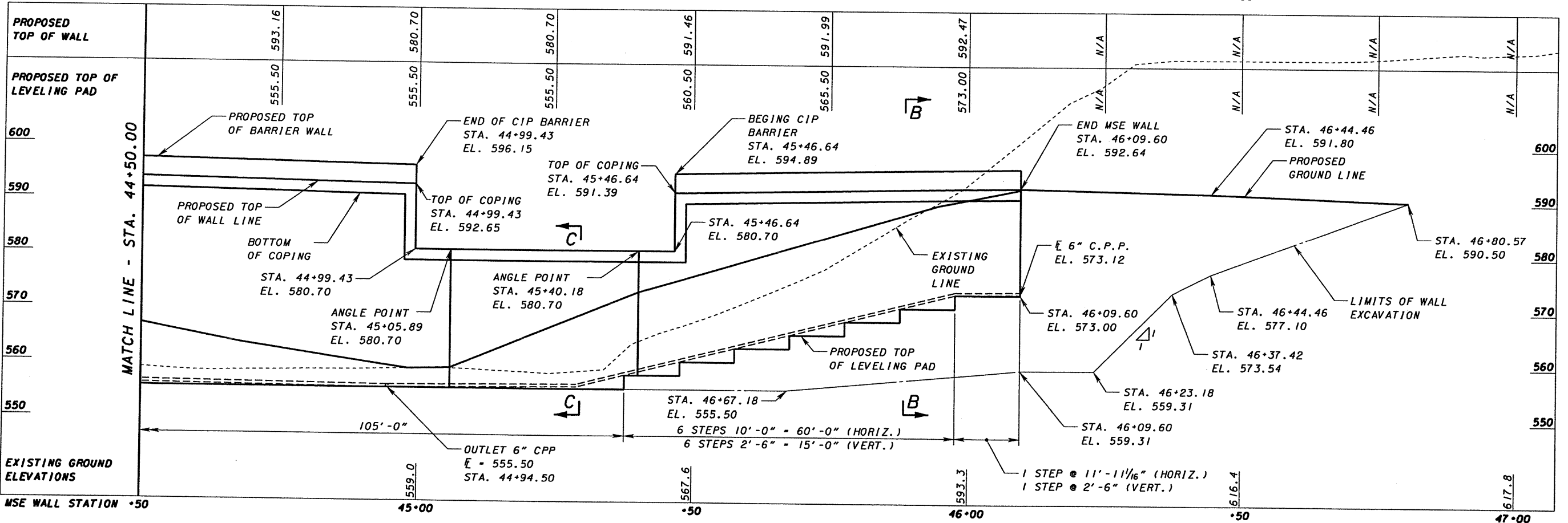
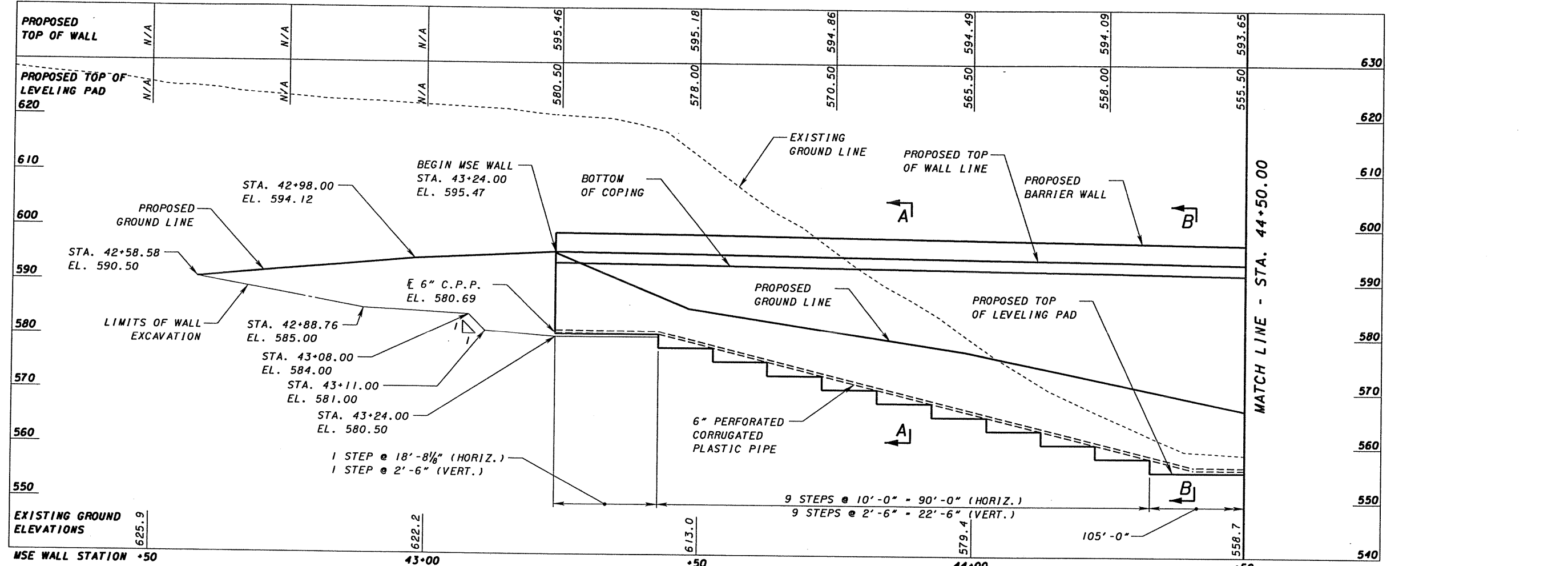
WALL NO. 2 STA. 45+30.04 =  
 RAMP A STA. 41+44.86

WALL ANGLE POINT STA. 45+40.18 =  
 RAMP A STA. 41+45.30, 10.13' RT.

BEGIN MSE WALL NO. 2 STA. 43+24.00 =  
 RAMP A STA. 43+24.00, 24.13' LT.

END MSE WALL NO. 2  
 STA. 46+09.60 =  
 RAMP A STA. 42+15.00, 10.13' RT.

	
DESIGNED	DATE
MTN	09/20/07
CHECKED	STRUCTURE FILE NUMBER
PJP	7306288
DRAWN	REVISED
MSW	
REVIEWED	
MSL	
DESIGN AGENCY	
<b>WALL SCHEMATIC PLAN - WALL NO. 2</b> BRIDGE NO. SC1-823-0074R US52 RAMP A OVER CR503 (OHIO RIVER ROAD)	
SCI-823-0.00 PID 77366	
12/16	
808 847	



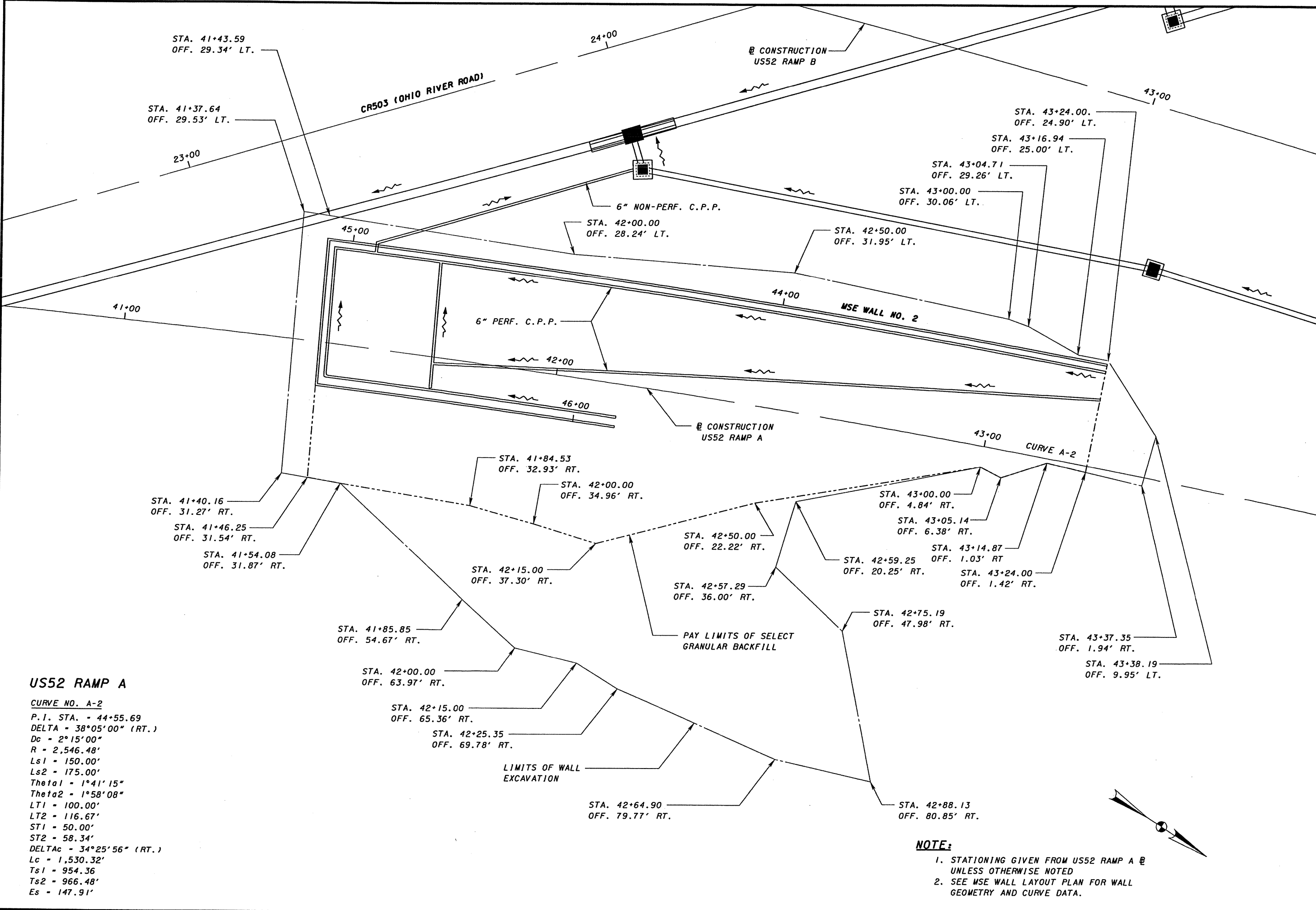
ELEVATION ALONG BASELINE WALL NO. 2

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4:41:40 PM 11/28/2007 g:\p03\0064\bridge\on\br\sc1\us52ramp\sc1\823\0074mset\wdsp02.dgn

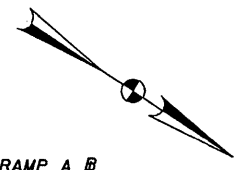
**US52 RAMP A**

**CURVE NO. A-2**  
 P.I. STA. = 44+55.69  
 DELTA = 38°05'00" (RT.)  
 Dc = 2°15'00"  
 R = 2,546.48'  
 Ls1 = 150.00'  
 Ls2 = 175.00'  
 Theta1 = 1°41'15"  
 Theta2 = 1°58'08"  
 LT1 = 100.00'  
 LT2 = 116.67'  
 ST1 = 50.00'  
 ST2 = 58.34'  
 DELTAc = 34°25'56" (RT.)  
 Lc = 1,530.32'  
 Ts1 = 954.36'  
 Ts2 = 966.48'  
 Es = 147.91'



**NOTE:**

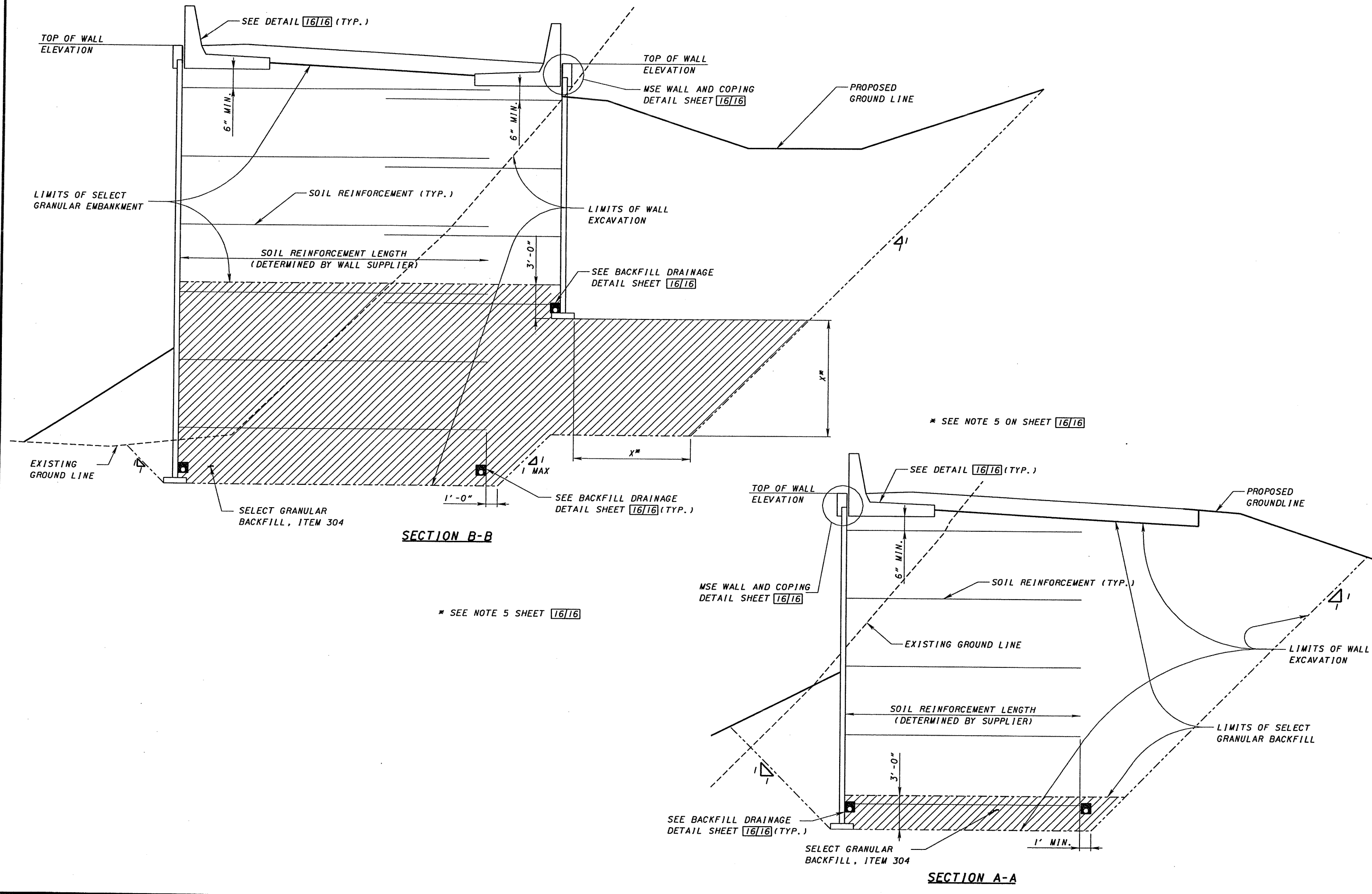
1. STATIONING GIVEN FROM US52 RAMP A @ UNLESS OTHERWISE NOTED
2. SEE MSE WALL LAYOUT PLAN FOR WALL GEOMETRY AND CURVE DATA.




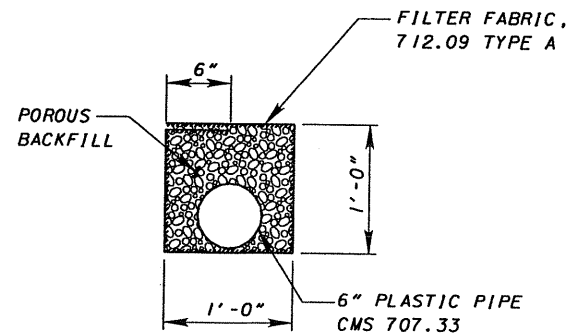
DESIGN AGENCY 	DATE	09/20/07
	REVIEWED	MSL
DESIGNED MTN	STRUCTURE TITLE NUMBER	7306288
	CHECKED	PJP
MSE WALL EXCAVATION AND DRAINAGE PLAN - WALL NO. 2 BRIDGE NO. SC1-823-0074R US52 RAMP A OVER CR503 (OHIO RIVER ROAD)		
PID 77366 SCI-823-0.00	14/16 	



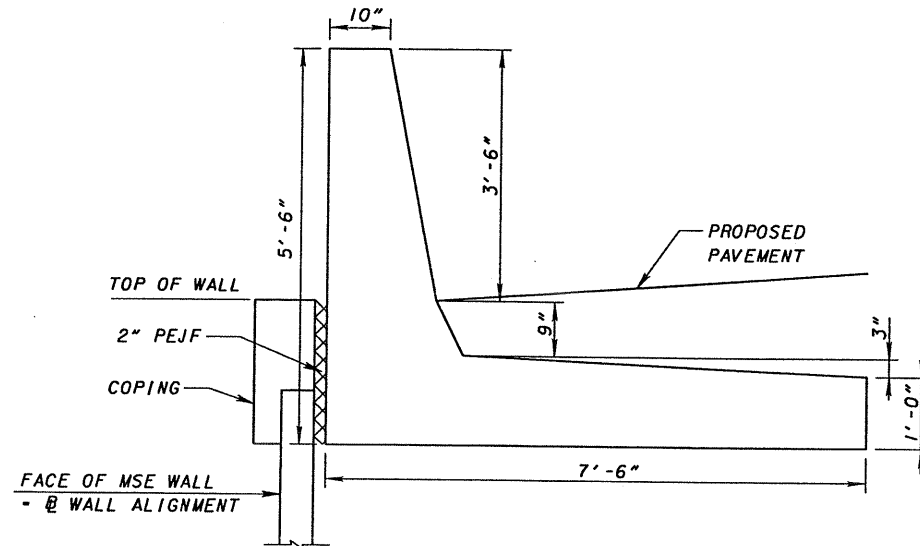
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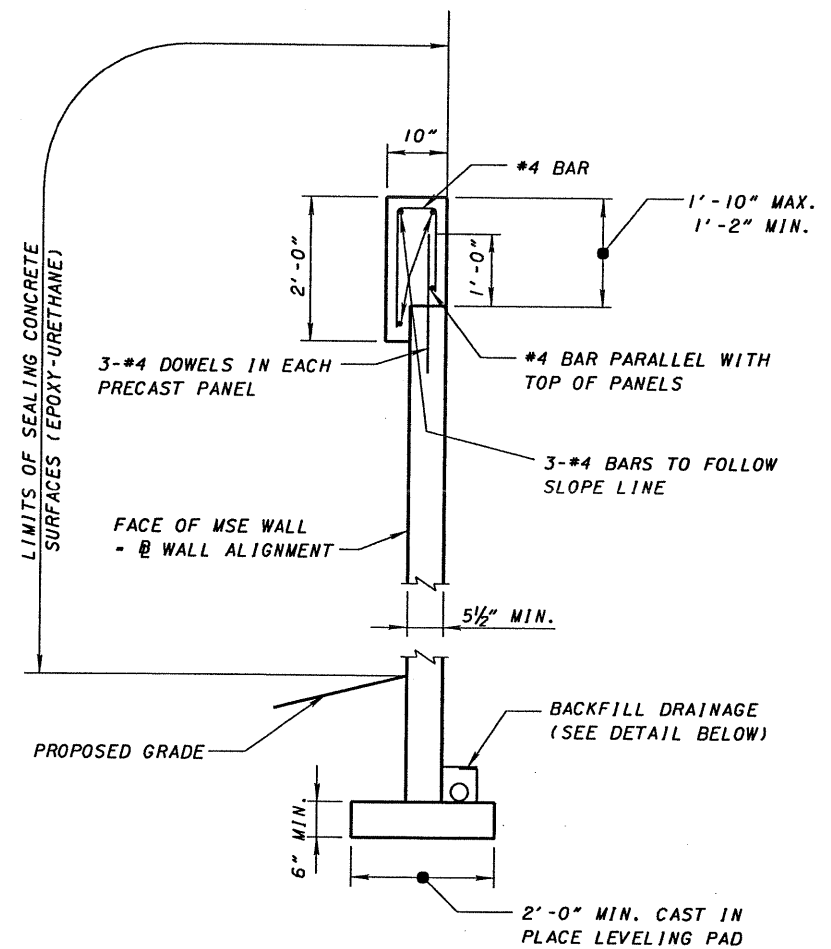
	
DESIGNED	MTN
CHECKED	PJP
DRAWN	DJR
REVIEWED	MSL
DATE	09/20/07
STRUCTURE FILE NUMBER	7306288
<b>MSE WALL DETAILS - WALL NO. 2</b> BRIDGE NO. SCI-823-0074R US52 RAMP A OVER CR503 (OHIO RIVER RD.)	
SCI-823-0.00	PID 77366
15/16	811/847



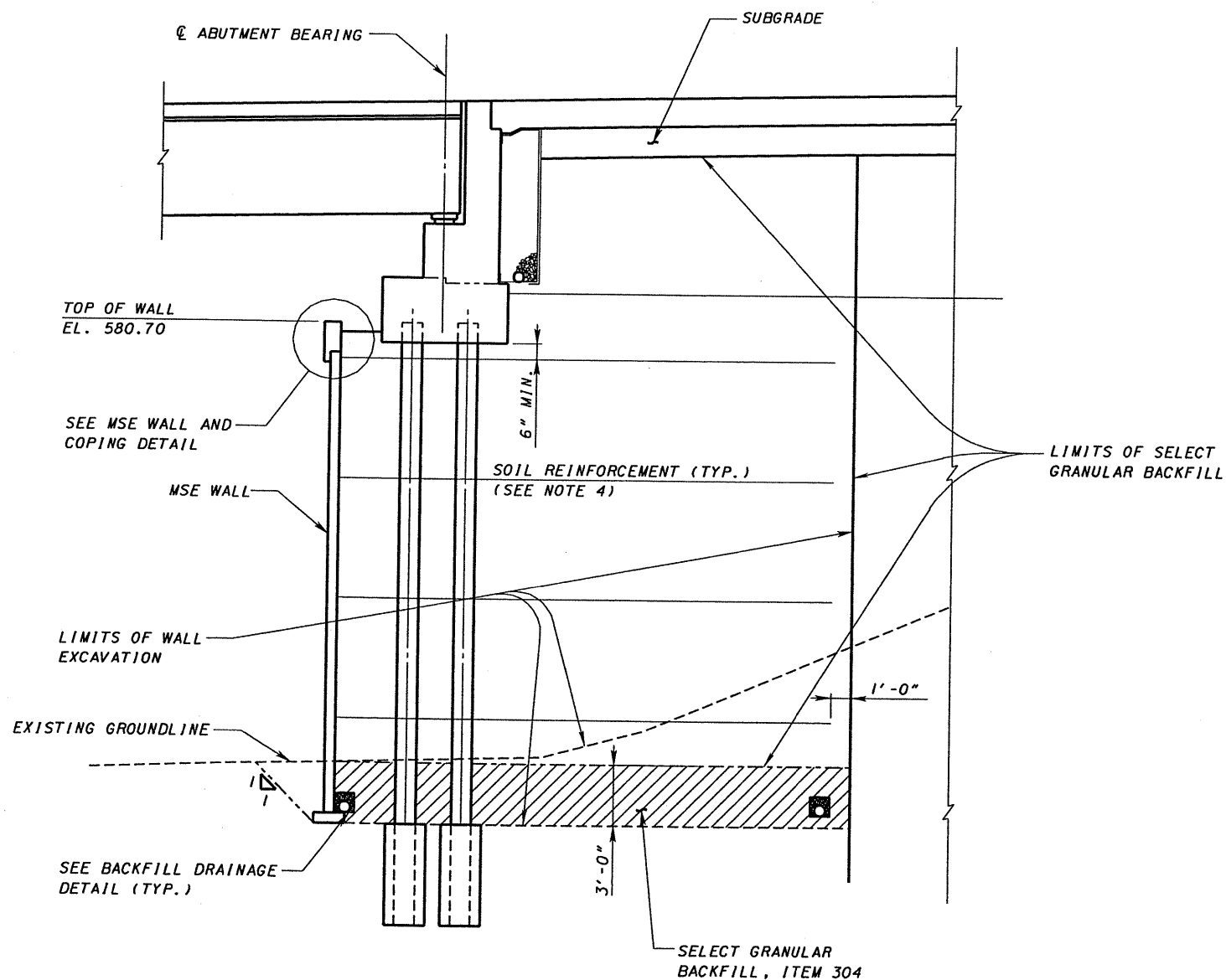
**BACKFILL DRAINAGE DETAIL**



**CIP BARRIER DETAIL**



**MSE WALL AND COPING DETAIL**



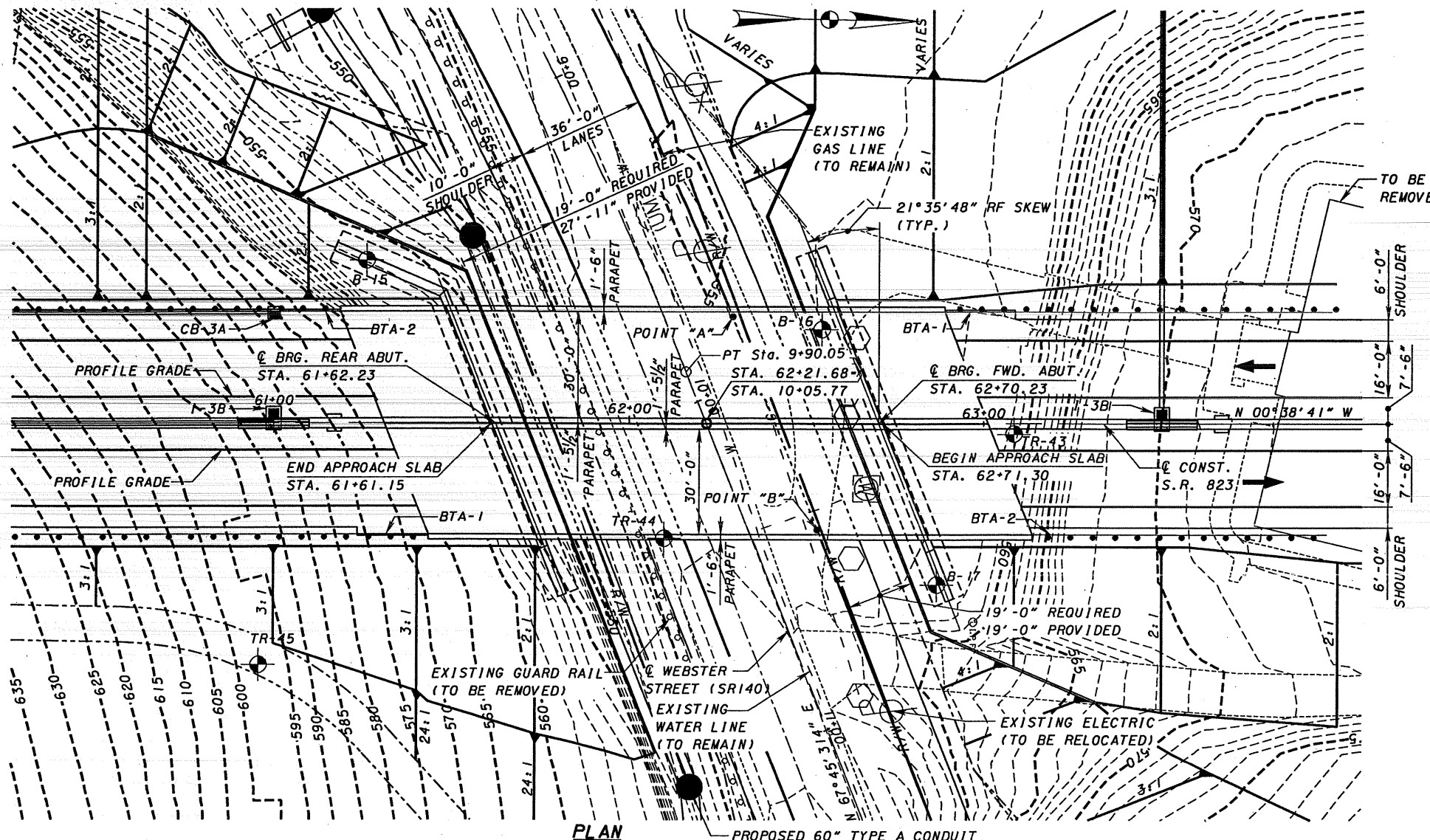
**SECTION C-C**

**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. 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.
5. WALL EXCAVATION SHALL EXTEND TO THE BOTTOM OF THE LEVELING PAD, AS SHOWN ON THE MSE WALL ELEVATION OR THE TOP OF ROCK. SEE SHEET 1316 FOR MSE WALL ELEVATIONS. THE WALL EXCAVATION SHALL EXTEND A DISTANCE IN FRONT OF THE LEVELING PAD EQUAL TO THE DEPTH OF EXCAVATION BELOW THE LEVELING PAD. THE DEPARTMENT WILL APPROVE WALL EXCAVATION PRIOR TO FOUNDATION PREPARATION.

11/28/2007 5:05:20 PM G:\6003\0064\Bridges\CONCRETE\US52RmpA\T&L\B23\_0074RMSEF.wd02.dgn





FIRST GUARDRAIL POST OFF BRIDGE LOCATIONS	
LOCATION	STATION
REAR ABUT. (NB)	61+39.48
REAR ABUT. (SB)	61+14.43
FWD. ABUT. (NB)	63+18.02
FWD. ABUT. (SB)	62+92.98

BENCHMARK 1	BENCHMARK 2
(TO BE PROVIDED LATER)	(TO BE PROVIDED LATER)

TRAFFIC DATA
(S.R. 823)
CURRENT YEAR ADT (2010) - 13,400
DESIGN YEAR ADT (2030) - 21,000
CURRENT YEAR ADTT (2010) - 1,876
DESIGN YEAR ADTT (2030) - 2,940

- 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.
  - FOR CULVERT DETAILS SEE SHEET [ ]

- LEGEND**
- BTA-1 - BRIDGE TERMINAL ASSEMBLY TYPE 1
  - BTA-2 - BRIDGE TERMINAL ASSEMBLY TYPE 2
  - ⊙ - BORING LOCATION

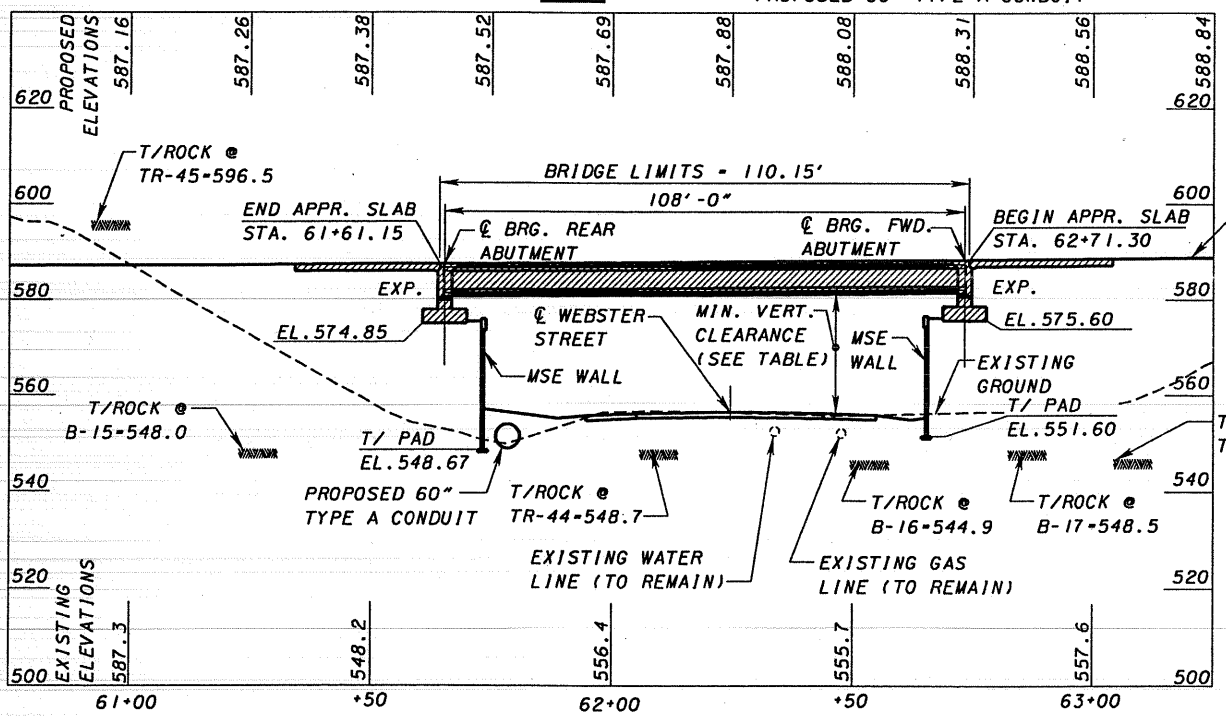


TABLE OF VERTICAL CLEARANCES		
LOCATION	"A"	"B"
PROPOSED	24.09'	23.66'
PREFERRED	17.0'	17.0'

**1600' VERT. CURVE DATA**

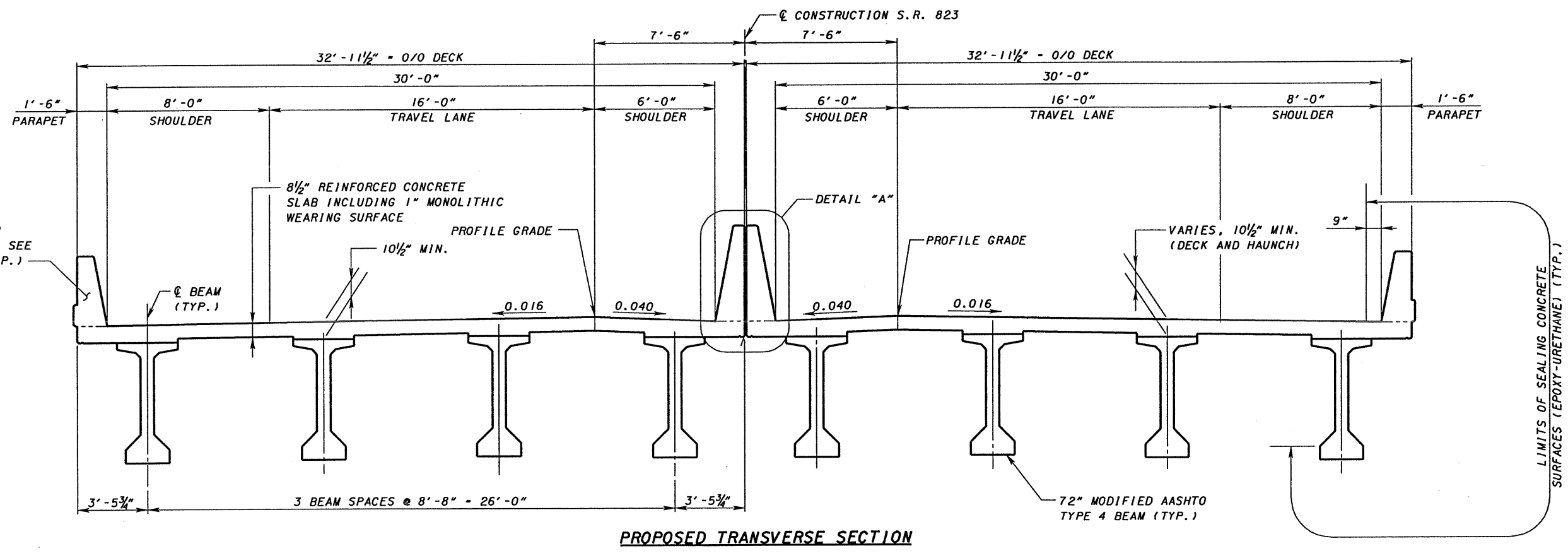
P.V.I. STA. - 66+50.00  
P.V.I. EL. - 583.33  
G<sub>1</sub> - -0.50%  
G<sub>2</sub> - 5.00%

PROPOSED STRUCTURE
TYPE: SINGLE SPAN 72" MODIFIED AASHTO TYPE 4 PRESTRESSED CONCRETE I-BEAMS WITH COMPOSITE REINFORCED CONCRETE DECK ON SEMI-INTEGRAL ABUTMENTS AND MSE WALL SUPPORTED EMBANKMENTS.
SPANS: 108'-0" C/C BEARING
ROADWAY: 2 - 30'-0" T/T PARAPETS
LOADING: HS-25 AND ALTERNATE MILITARY LOADING, FWS-60 PSF
SKEW: 21°35'48" RF
CROWN: NORMAL, 0.016 FT/FT
ALIGNMENT: TANGENT
WEARING SURFACE: MONOLITHIC CONCRETE
APPROACH SLABS: AS-1-81 (30'-0" LONG)
LATITUDE: 82° 52' 23" N
LONGITUDE: 38° 45' 14" W

1/28/2007 5:06:19 PM g:\c003\0064\bridge\cns\BTS\04-SR140\webster\17581\_823\_0117rsp001.dgn

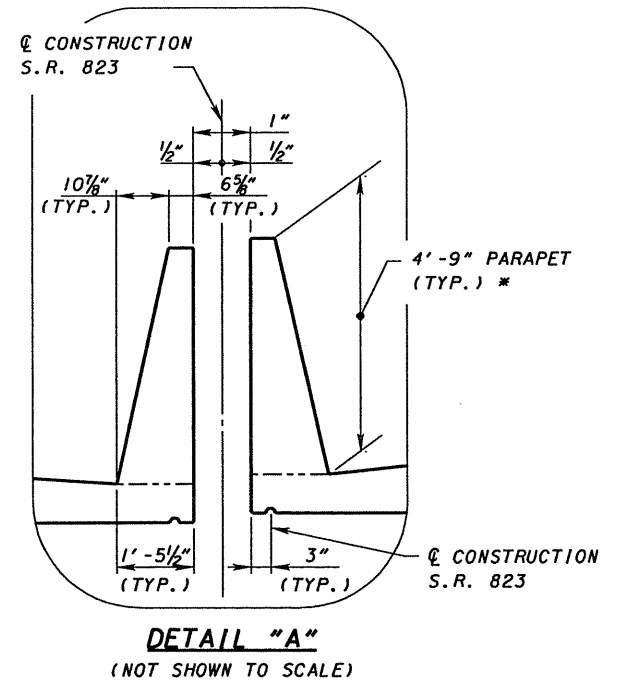
DESIGN AGENCY: **Team Systems**  
DATE: 6/11/07  
REVIEWED: MSL  
DRAWN: CAS  
CHECKED: MSL  
STRUCTURE FILE NUMBER: 7306318  
SCIO TO COUNTY STA. 61+61.15 STA. 62+71.30  
SITE PLAN  
BRIDGE NO. SC1-823-0117 R  
S.R. 823 OVER WEBSTER STREET (SR 140)  
SC1-823-0.00  
PID 77366  
2/7  
814  
847



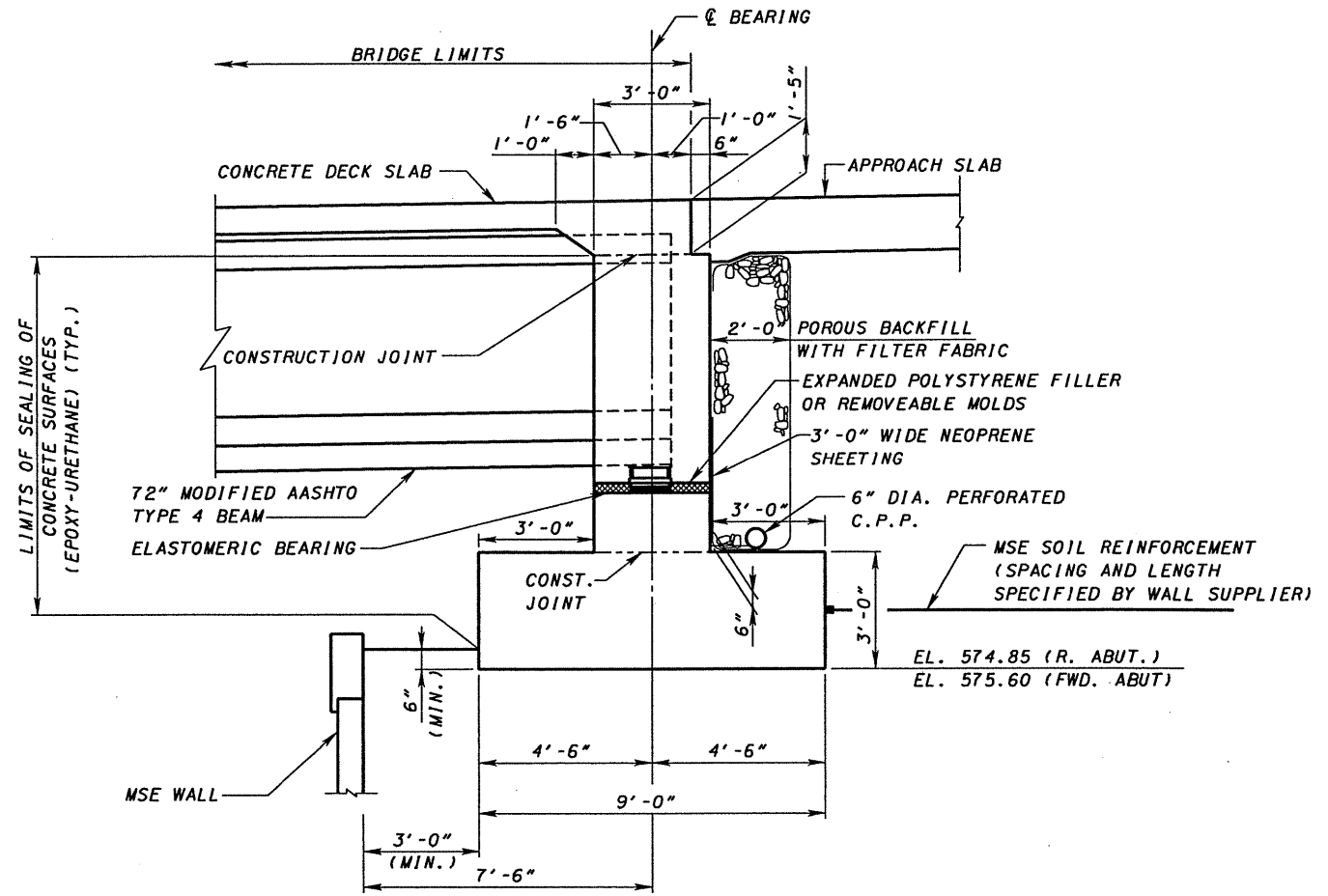


SINGLE SLOPE DEFLECTOR  
 PARAPET BRIDGE RAILING SEE  
 STD. DWG. SBR-1-99 (TYP.)

SUPERSTRUCTURE DEPTH	
ITEM	72" MODIFIED AASHTO TYPE 4 I-BEAM
SLAB (INCLUDING WEARING SURFACE)	8 1/2"
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'



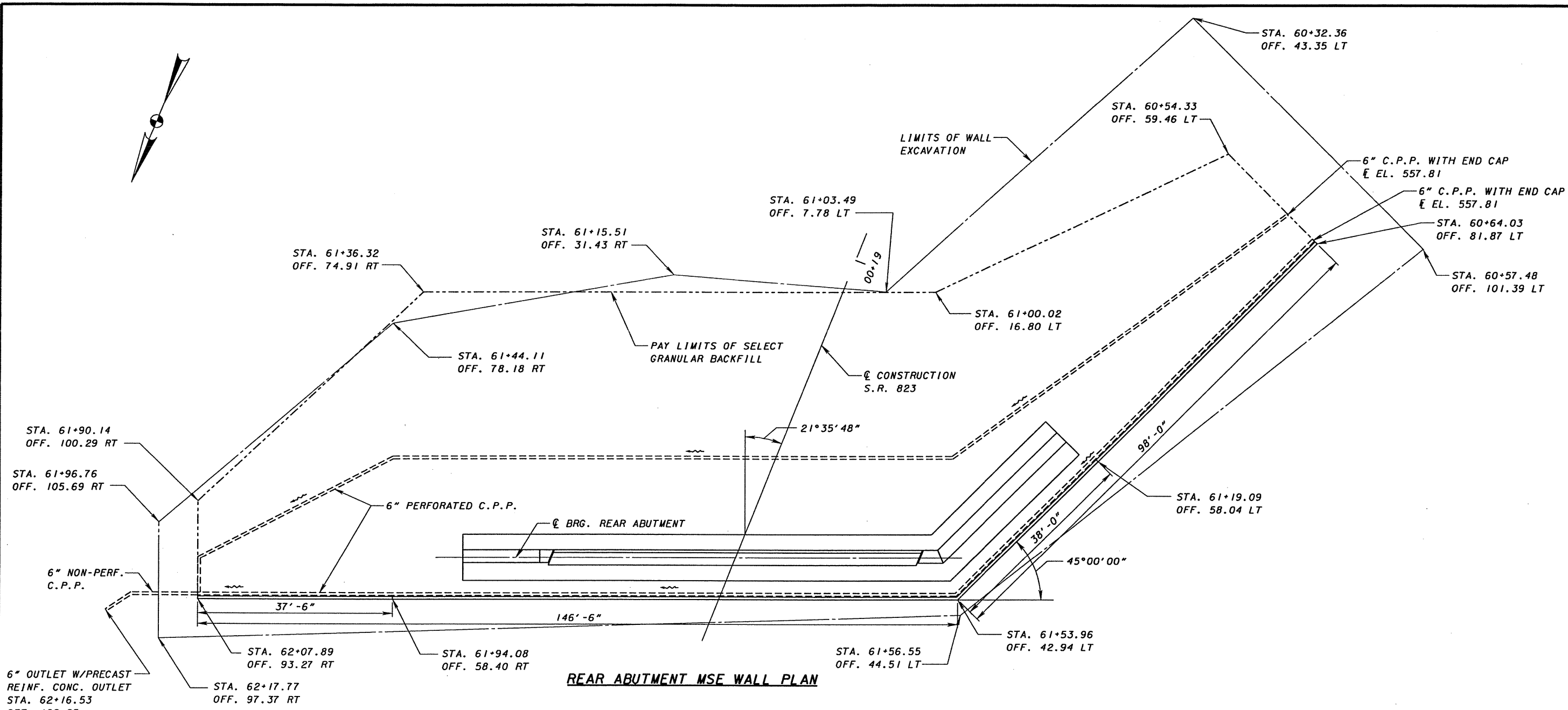
\* PARAPETS ARE SIMILAR TO ROADWAY CONCRETE MEDIAN BARRIER



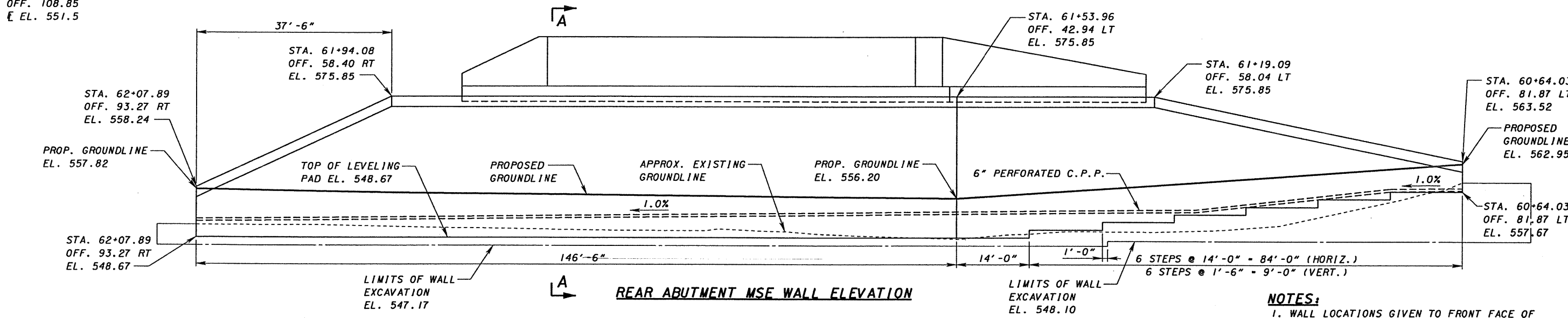
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4:32:57 PM 11/28/2007 g:\c003\0064\bridge\cn\bfis\04-sr\140\webster\ts&l\823\_0117mser.eor.01.dgn



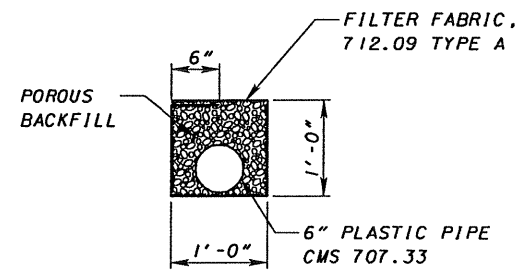
**REAR ABUTMENT MSE WALL PLAN**



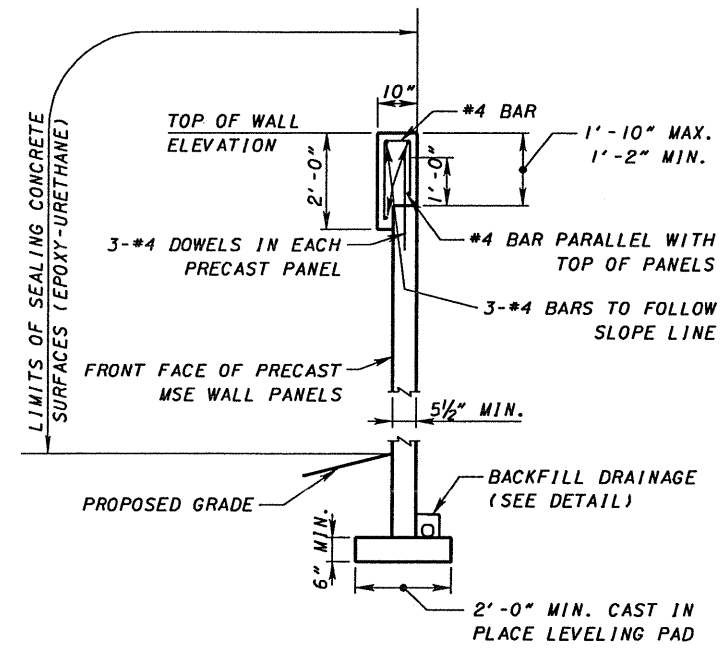
**REAR ABUTMENT MSE WALL ELEVATION**

- NOTES:**
1. WALL LOCATIONS GIVEN TO FRONT FACE OF MSE WALL PANELS.
  2. WALL ELEVATIONS GIVEN TO TOP OF LEVELING PAD AND TOP OF MSE WALL COPING.
  3. SEE SHEET FOR SECTION A-A.

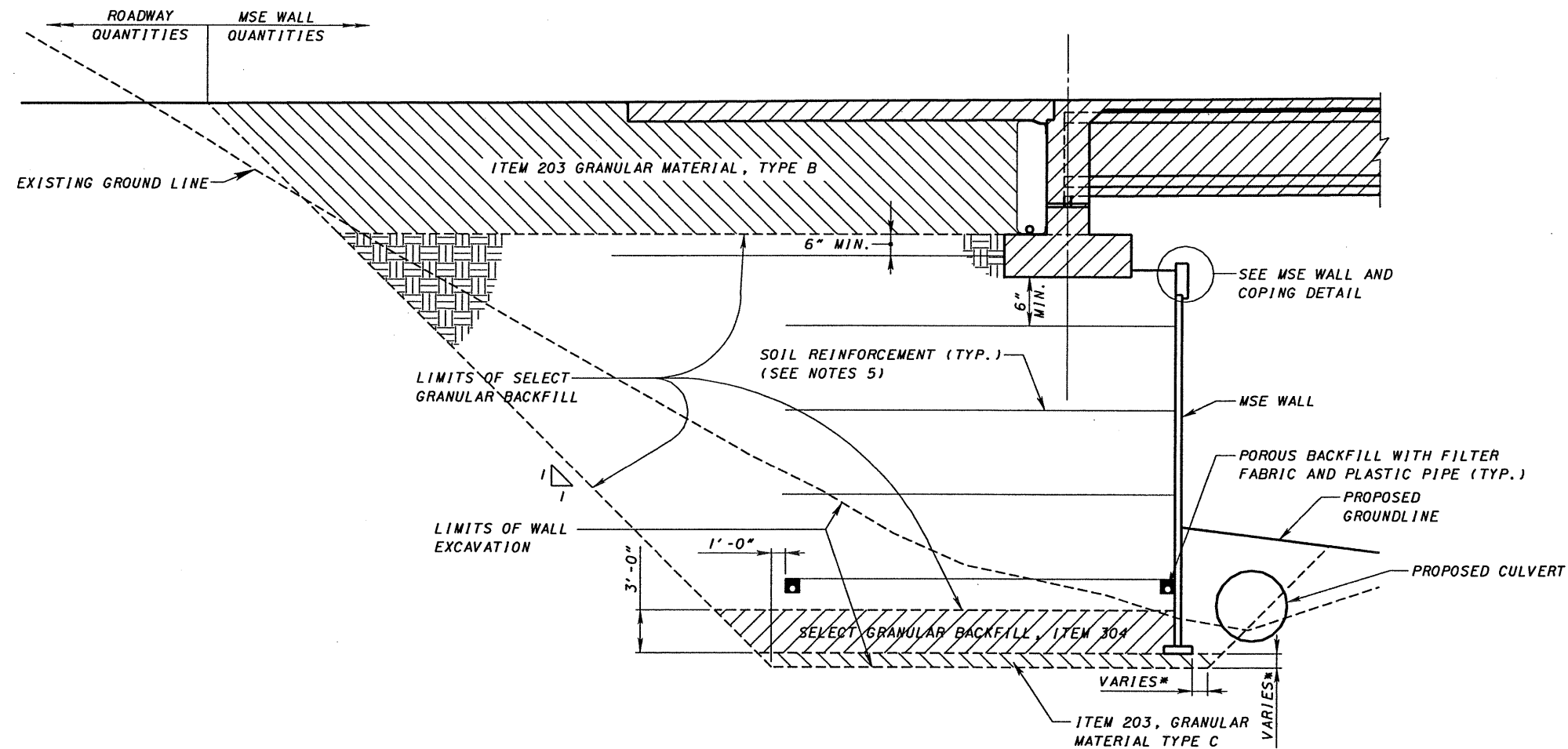
DESIGNED	DATE	REVIEWED	DATE
MTN	6/11/07	MSL	6/11/07
CHECKED	PJP	STRUCTURE FILE NUMBER	
		7306296L, 7306318R	
<b>REAR ABUT. MSE WALL PLAN &amp; ELEVATION</b> BRIDGE NO. SCI-823-0117 L&R S.R. 823 OVER WEBSTER STREET (SR 140)			
<b>SCI-823-0.00</b> PID 77366		4 / 7 <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <span style="font-size: 24px; font-weight: bold;">816</span>  <span style="font-size: 24px; font-weight: bold;">847</span> </div>	



**BACKFILL DRAINAGE DETAIL**



**MSE WALL AND COPING DETAIL**



**SECTION A-A**

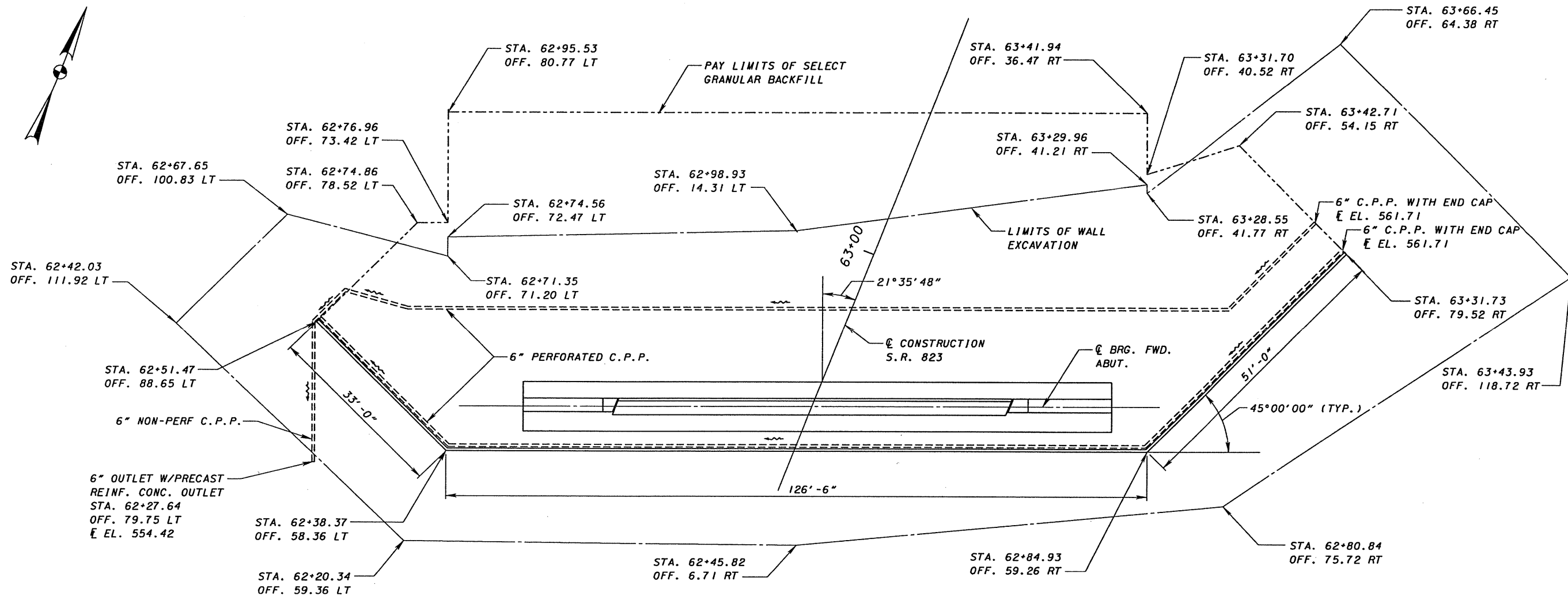
\* SEE MSE WALL ELEVATION FOR ELEVATION OF EXCAVATION LIMIT

**NOTES:**

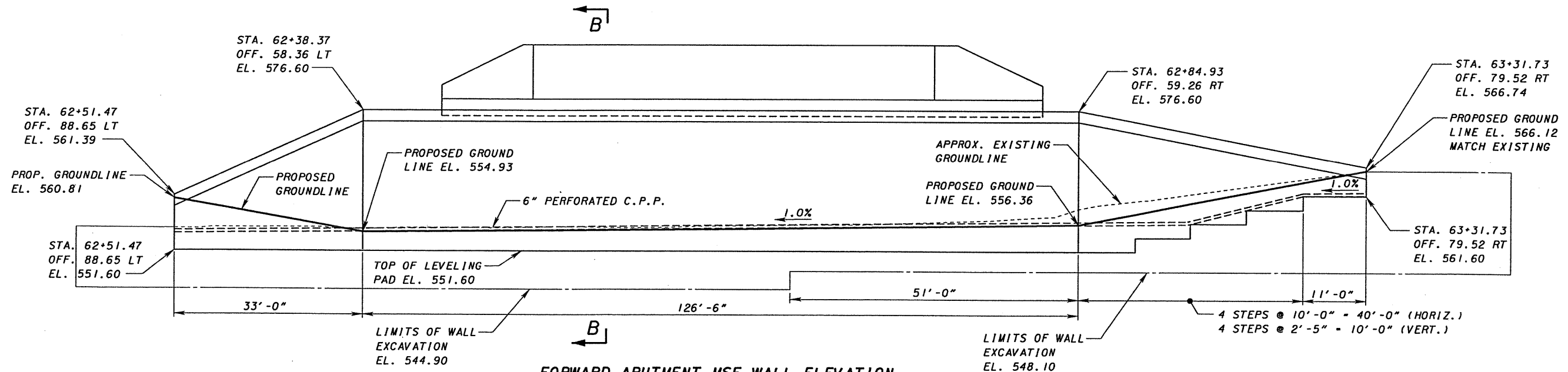
1. SEE SITE PLAN DRAWING FOR BORING LOCATIONS AND APPROX. TOP OF ROCK ELEVATIONS.
2. THE SLOPING LINE WHICH DEFINES THE LIMIT OF THE SELECT GRANULAR BACKFILL IS NOT AN ALLOWABLE SLOPE FOR EXCAVATION. CUT THE SIDES OF ALL EXCAVATIONS TO PREVENT CAVING OR PROTECT THE EXCAVATIONS FROM CAVING.
3. ALL REINFORCING STEEL TO BE EPOXY COATED.
4. WALL EXCAVATION SHALL EXTEND TO A LEVEL BEDROCK SURFACE. 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 9:43:01PM G:\cc03\0064\bridge\cn\bst\04-sr\40\webst\er\1\y8\1\823\_017mser-cr-02.dgn


DESIGN AGENCY DATE 6/11/07 REVIEWED MSL STRUCTURE FILE NUMBER 7306296L, 7306318R DRAWN DJR DESIGNED MTN CHECKED PJP	<b>REAR ABUT. MSE WALL DETAILS</b> BRIDGE NO. SCI-823-0117 L&R S.R. 823 OVER WEBSTER STREET (SR 140)	SCI-823-0.00 PID 77366 5 / 7 817 847
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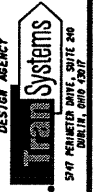
**FORWARD ABUTMENT MSE WALL PLAN**



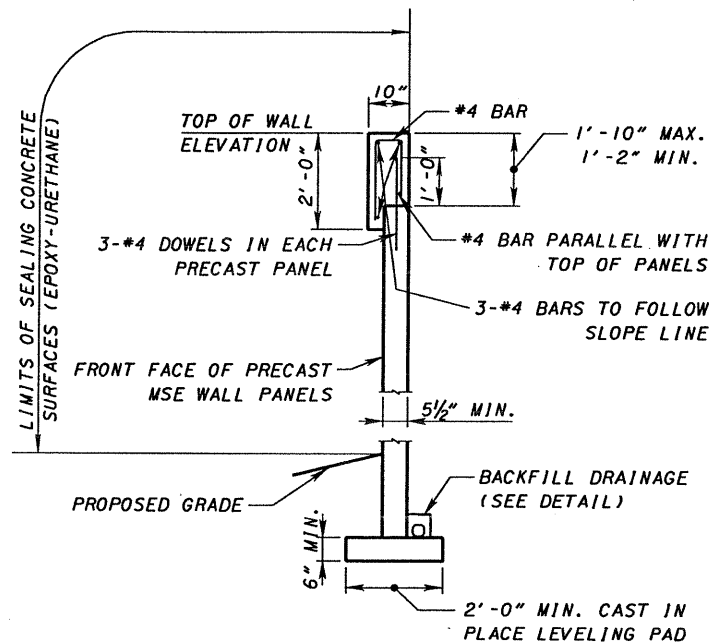
**FORWARD ABUTMENT MSE WALL ELEVATION**

- NOTES:**
1. WALL LOCATIONS GIVEN TO FRONT FACE OF MSE WALL PANELS.
  2. WALL ELEVATIONS GIVEN TO TOP OF LEVELING PAD AND TOP OF MSE WALL COPING.
  3. SEE SHEET  FOR SECTION B-B.

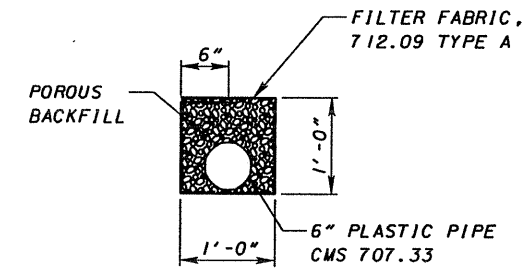
4:32:48 PM 11/28/2007 g:\c003\006\bridge\cn\brs\04-br140\webster\ts&\823\_011msee\wd01.dgn

												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">DESIGNED</td> <td style="width: 33%;">DATE</td> <td style="width: 33%;">REVIEWED</td> </tr> <tr> <td style="text-align: center;">MTN</td> <td style="text-align: center;">MSL 6/11/07</td> <td style="text-align: center;">MSL</td> </tr> <tr> <td style="text-align: center;">CHECKED</td> <td style="text-align: center;">STRUCTURE FILE NUMBER</td> <td style="text-align: center;">REVISED</td> </tr> <tr> <td style="text-align: center;">PJP</td> <td style="text-align: center;">7306296L - 7306318R</td> <td style="text-align: center;"></td> </tr> </table>	DESIGNED	DATE	REVIEWED	MTN	MSL 6/11/07	MSL	CHECKED	STRUCTURE FILE NUMBER	REVISED	PJP	7306296L - 7306318R	
DESIGNED	DATE	REVIEWED										
MTN	MSL 6/11/07	MSL										
CHECKED	STRUCTURE FILE NUMBER	REVISED										
PJP	7306296L - 7306318R											
<p><b>FORWARD ABUT. MSE WALL PLAN &amp; ELEVATION</b></p> <p>BRIDGE NO. SCI-823-0117 L&amp;R</p> <p>S. R. 823 OVER WEBSTER STREET (SR 140)</p>												
<p>SCI-823-0.00</p> <p>PID 77366</p>												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">6/7</td> <td style="width: 33%; text-align: center;">818</td> <td style="width: 33%; text-align: center;">847</td> </tr> </table>	6/7	818	847									
6/7	818	847										

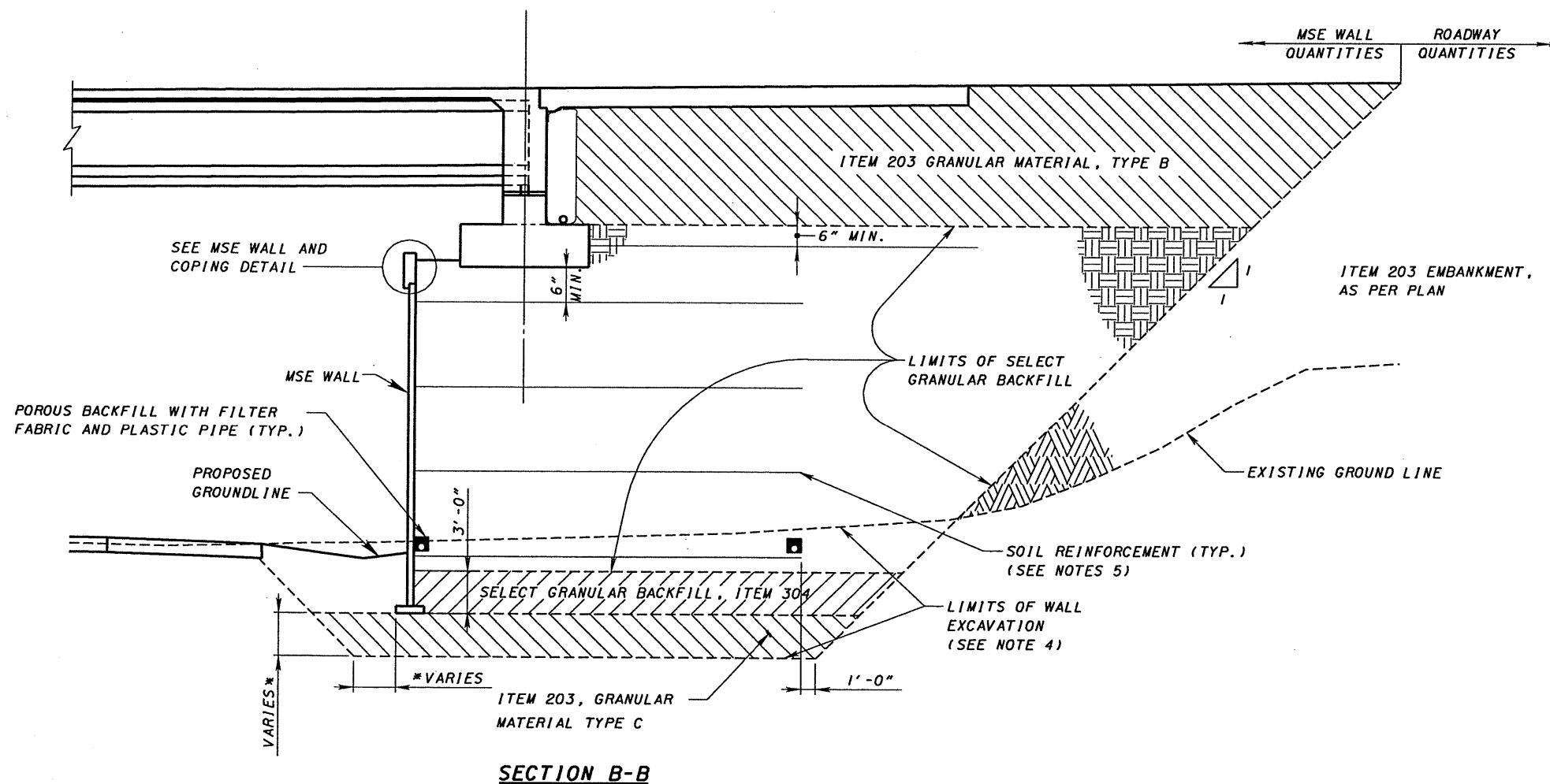




**MSE WALL AND COPING DETAIL**



**BACKFILL DRAINAGE DETAIL**



**SECTION B-B**

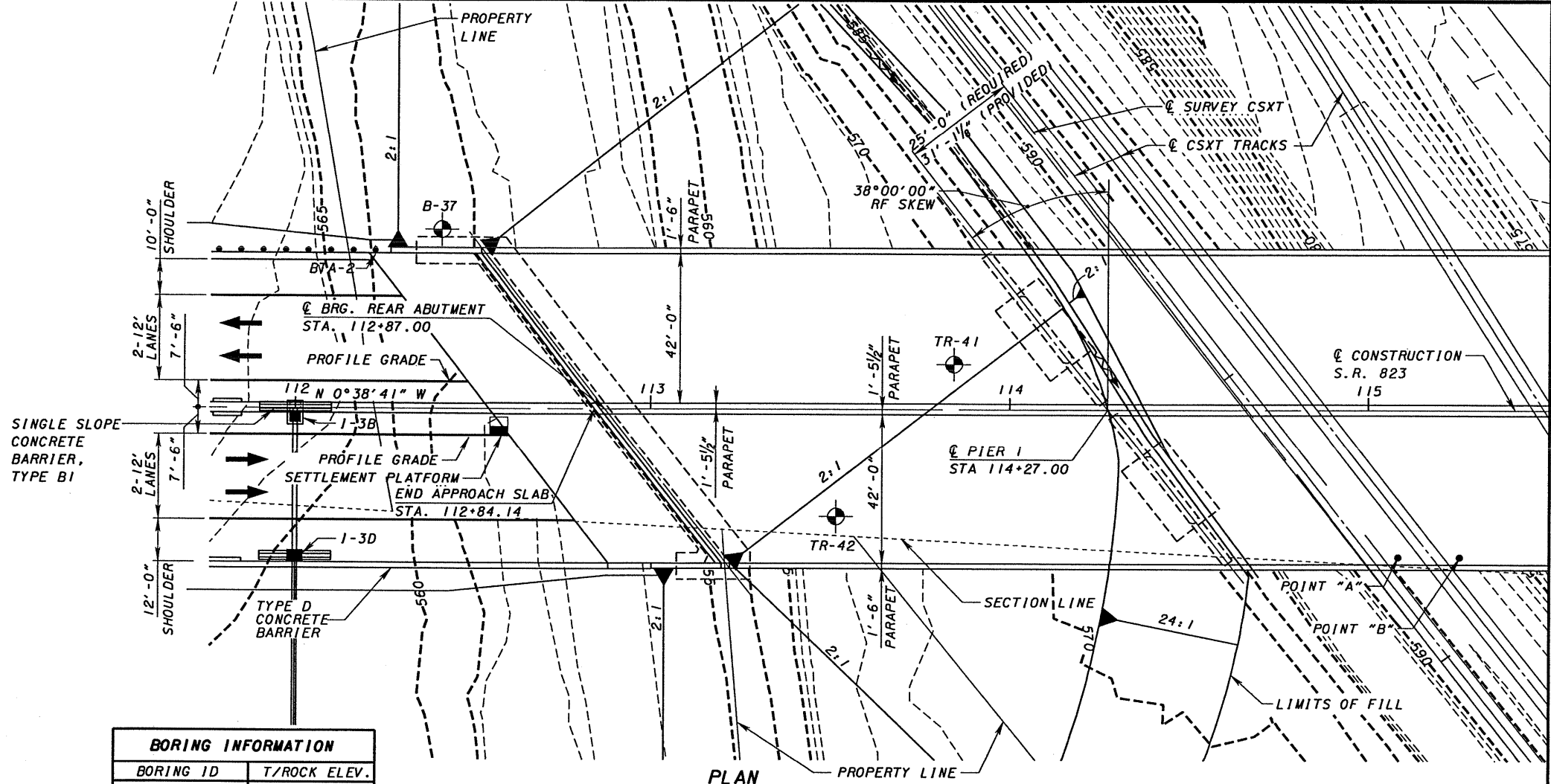
\* SEE MSE WALL ELEVATION FOR ELEVATION OF EXCAVATION LIMIT

**NOTES:**

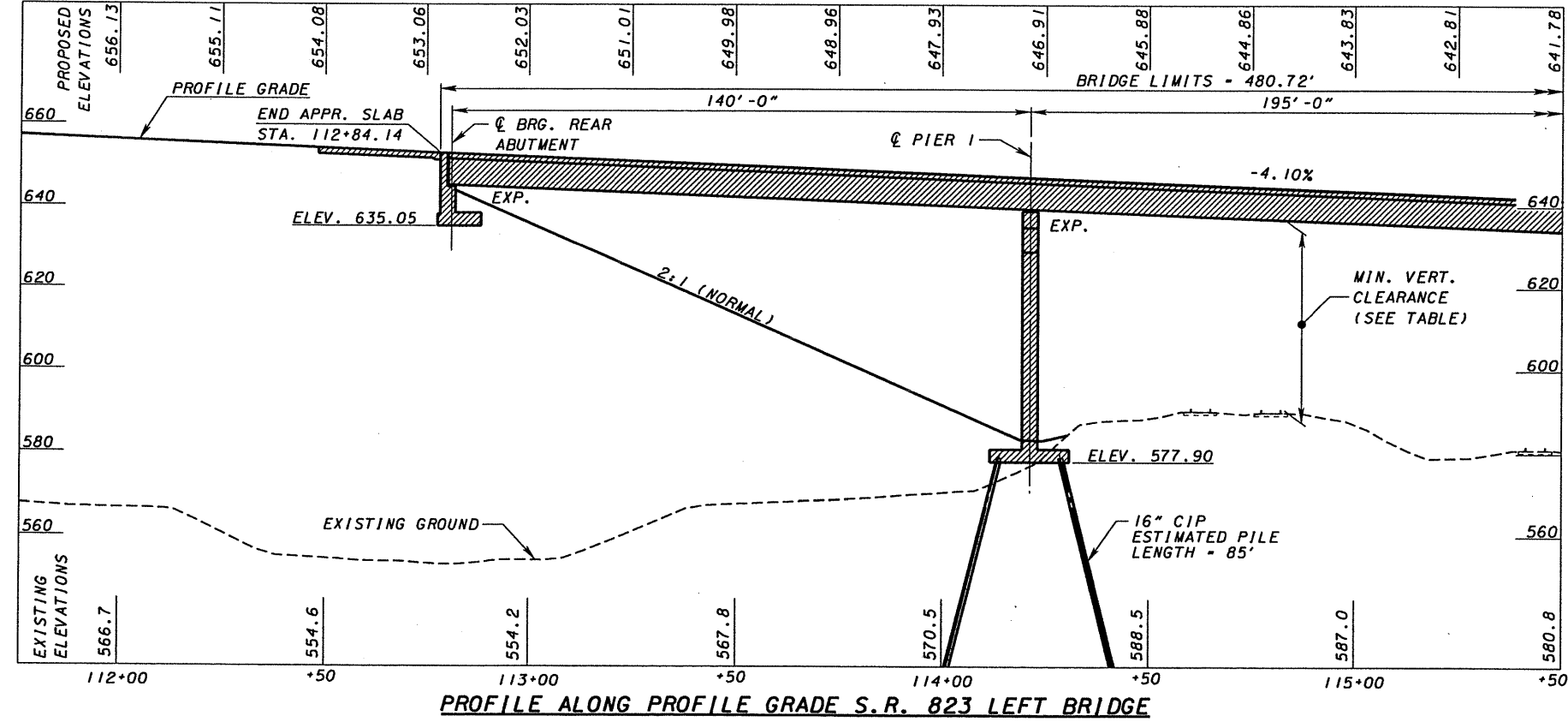
1. SEE SITE PLAN DRAWING FOR BORING LOCATIONS AND APPROX. TOP OF ROCK ELEVATIONS.
2. THE SLOPING LINE WHICH DEFINES THE LIMIT OF THE SELECT GRANULAR BACKFILL IS NOT AN ALLOWABLE SLOPE FOR EXCAVATION. CUT THE SIDES OF ALL EXCAVATIONS TO PREVENT CAVING OR PROTECT THE EXCAVATIONS FROM CAVING.
3. ALL REINFORCING STEEL TO BE EPOXY COATED.
4. WALL EXCAVATION SHALL EXTEND TO A LEVEL BEDROCK SURFACE. 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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4:37:51 PM 11/28/2007 g:\c003\0064\bridge\cm\brs\05-csxt\ts&l\823\_02\lisp01.dgn



BORING INFORMATION	
BORING ID	T/ROCK ELEV.
TR-41	482.4
TR-42	476.0
B-37	472.2



PROFILE ALONG PROFILE GRADE S.R. 823 LEFT BRIDGE



FIRST GUARDRAIL POST OFF BRIDGE LOCATIONS	
LOCATION	STATION
REAR ABUT. (SB)	112+22.11
FWD. ABUT. (SB)	117+48.15

TABLE OF VERTICAL CLEARANCES		
LOCATION	"A"	"B"
PROPOSED	44.69'	44.15'
REQUIRED	23.0'	23.0'

BENCHMARK 1	BENCHMARK 2
(TO BE PROVIDED LATER)	(TO BE PROVIDED LATER)

TRAFFIC DATA	
S.R. 823	
CURRENT YEAR ADT (2010) - 21,200	
DESIGN YEAR ADT (2030) - 31,200	
CURRENT YEAR ADTT (2010) - 2,968	
DESIGN YEAR ADTT (2030) - 4,368	

**LEGEND**

- BTA-1 - BRIDGE TERMINAL ASSEMBLY TYPE 1
- BTA-2 - BRIDGE TERMINAL ASSEMBLY TYPE 2
- BORING LOCATION

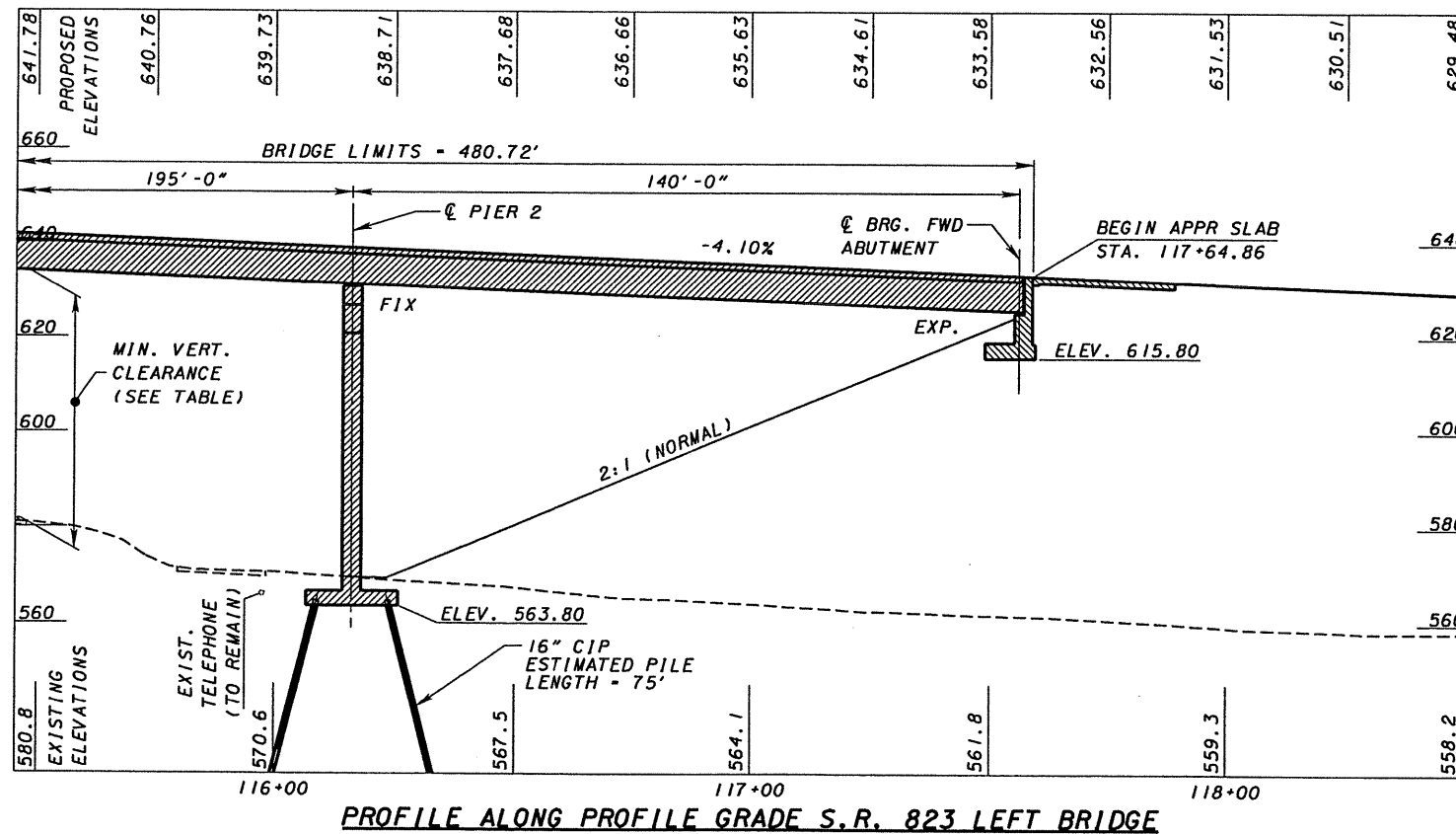
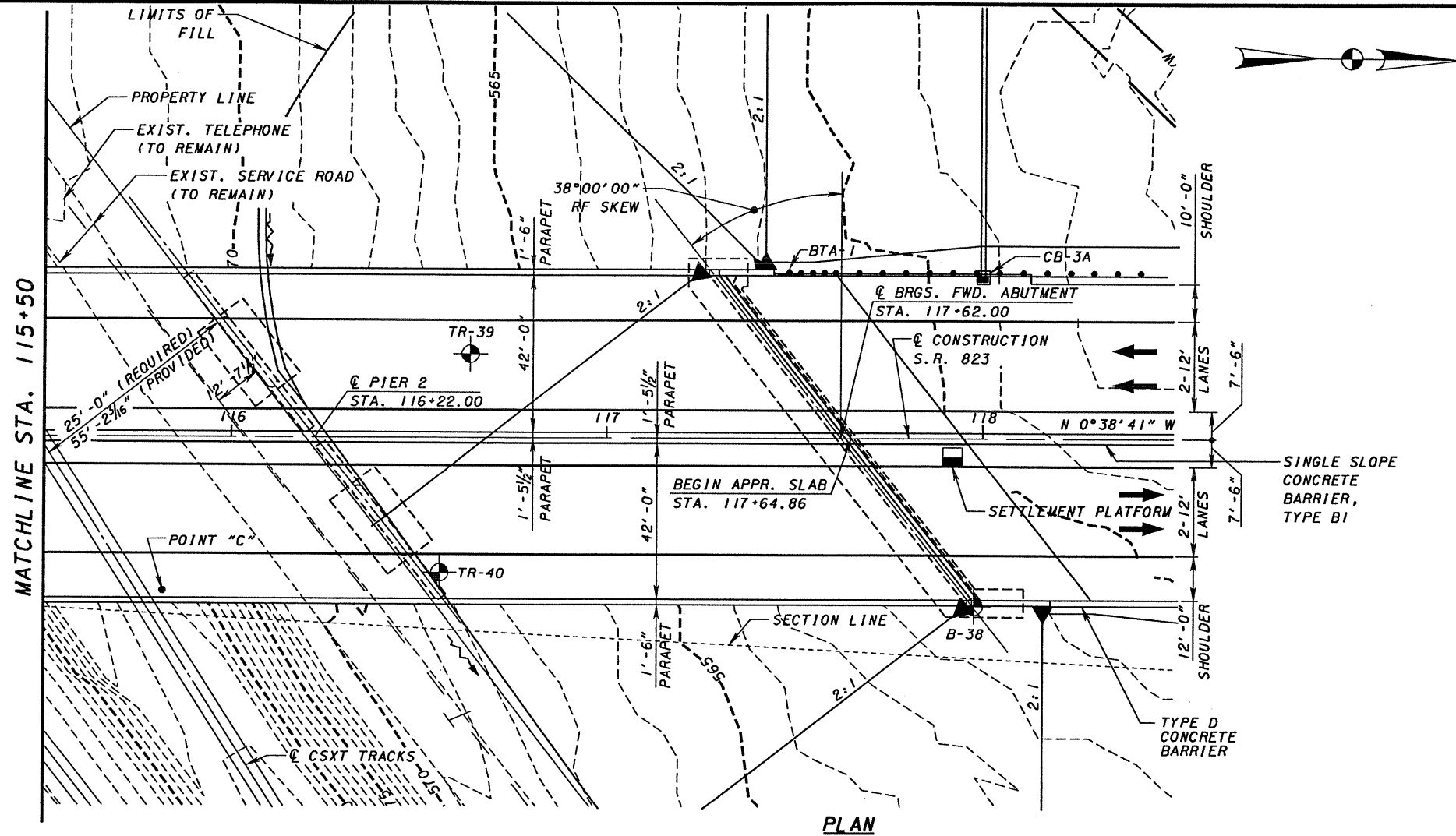
**NOTES:**

- ALL SHEETS WITH PLAN DIMENSIONS ARE SHOWN HORIZONTAL.
- EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

PROPOSED STRUCTURE	
TYPE: 3 SPAN CONTINUOUS 74" WEB A709 GRADE 50W STEEL PLATE GIRDER WITH COMPOSITE REINFORCED CONCRETE DECK SUPPORTED BY REINFORCED CONCRETE T-TYPE PIERS AND STUB TYPE ABUTMENTS.	
SPANS: 140'-0" - 195'-0" - 140'-0" C/C BRGS	
ROADWAY: 2 - 42'-0" T/T OF PARAPETS	
LOADING: HS-25 (CASE 1) AND ALTERNATE MILITARY LOADING, FUTURE WEARING SURFACE - 60 PSF	
SKEW: 38°00'00" RF	
CROWN: 0.016 FT/FT	
ALIGNMENT: TANGENT	
WEARING SURFACE: MONOLITHIC CONCRETE	
APPROACH SLABS: AS-1-81 (30' LONG)	
LATITUDE: 38°46'06" N	
LONGITUDE: 82°52'36" W	

DESIGN AGENCY  
 DATE 9/28/07  
 REVISIONS  
 MSL 9/28/07  
 PJP  
 STRUCTURE FILE NUMBER 7306326  
 DESIGNED  
 FJP  
 CHECKED  
 MSL  
 SC1070 COUNTY  
 STA. 112+84.14  
 STA. 117+64.86  
 SITE PLAN  
 BRIDGE NO. SCI-823-0214 L  
 S.R. 823 OVER CSXT RAILROAD  
 SCI-823-0.00  
 PID 77366  
 1 / 8

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PROFILE ALONG PROFILE GRADE S.R. 823 LEFT BRIDGE

BORING INFORMATION	
BORING ID	T/ROCK ELEV.
TR-39	479.2
TR-40	472.9
B-38	476.2

TABLE OF VERTICAL CLEARANCES	
LOCATION	"C"
PROPOSED	49.62'
REQUIRED	23.0'

- NOTES:**
- ALL SHEETS WITH PLAN DIMENSIONS ARE SHOWN HORIZONTAL.
  - EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN AGENCY  
  
 SYSTEMS  
 3700 HOLCOMB DRIVE, SUITE 200  
 DALLAS, TEXAS 75218

DATE	9/24/07
REVIEWED	MSL
STRUCTURE FILE NUMBER	7306326

DESIGNED	FJP	CHECKED	MSL
DRAWN	FJP	REVISED	

SCIO TO COUNTY  
 STA. 112+84.14  
 STA. 117+64.86

SITE PLAN  
 BRIDGE NO. SCI-823-0214 L  
 S.R. 823 OVER CSXT RAILROAD

SCI-823-0.00  
 PID 77366

2	8
---	---

821  
 847



FIRST GUARDRAIL POST OFF BRIDGE LOCATIONS	
LOCATION	STATION
REAR ABUT. (SB)	112+22.11
FWD. ABUT. (SB)	117+48.15

TABLE OF VERTICAL CLEARANCES		
LOCATION	"A"	"B"
PROPOSED	44.69'	44.15'
REQUIRED	23.0'	23.0'

BENCHMARK 1	BENCHMARK 2
(TO BE PROVIDED LATER)	(TO BE PROVIDED LATER)

TRAFFIC DATA	
S.R. 823	
CURRENT YEAR ADT (2010)	- 21,200
DESIGN YEAR ADT (2030)	- 31,200
CURRENT YEAR ADTT (2010)	- 2,968
DESIGN YEAR ADTT (2030)	- 4,368

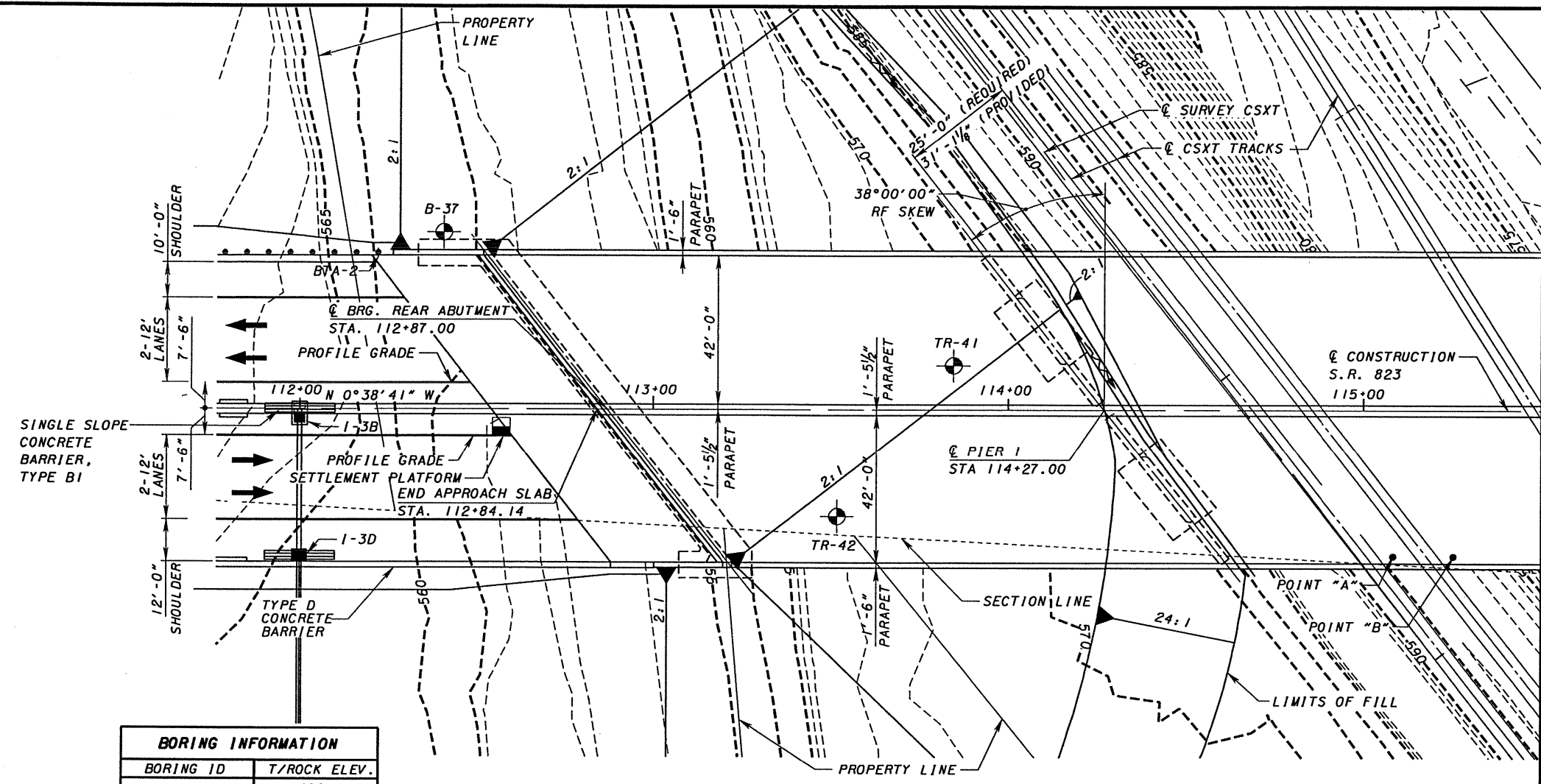
**LEGEND**

- BTA-1 - BRIDGE TERMINAL ASSEMBLY TYPE 1
- BTA-2 - BRIDGE TERMINAL ASSEMBLY TYPE 2
- BORING LOCATION

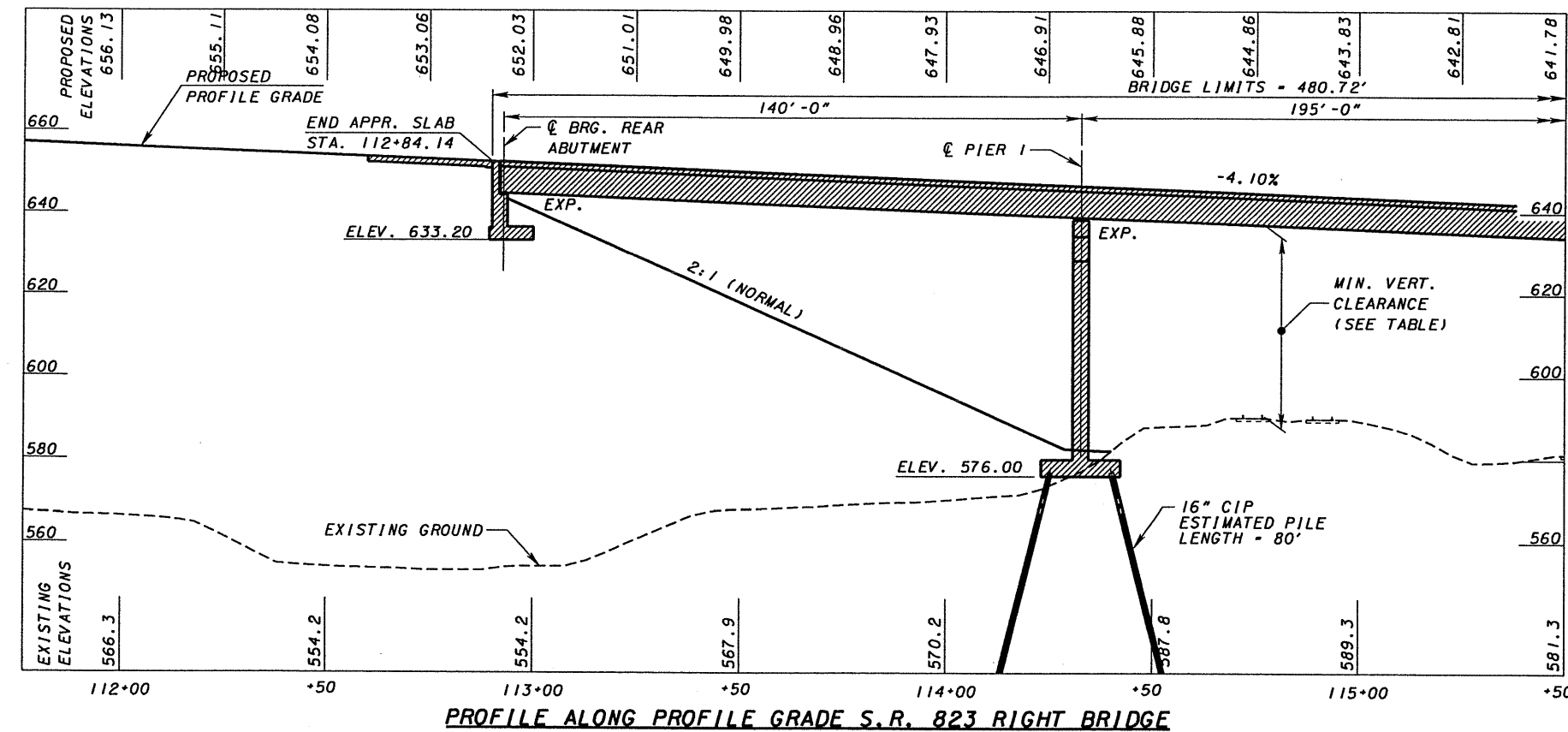
**NOTES:**

1. ALL SHEETS WITH PLAN DIMENSIONS ARE SHOWN HORIZONTAL.
2. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

PROPOSED STRUCTURE	
TYPE: 3 SPAN CONTINUOUS 74" WEB A709 GRADE 50W STEEL PLATE GIRDER WITH COMPOSITE REINFORCED CONCRETE DECK SUPPORTED BY REINFORCED CONCRETE T-TYPE PIERS AND STUB TYPE ABUTMENTS.	
SPANS: 140'-0" - 195'-0" - 140'-0" C/C BRGS	
ROADWAY: 2 - 42'-0" T/T OF PARAPETS	
LOADING: HS-25 (CASE 1) AND ALTERNATE MILITARY LOADING, FUTURE WEARING SURFACE - 60 PSF	
SKEW: 38°00'00" RF	
CROWN: 0.016 FT/FT	
ALIGNMENT: TANGENT	
WEARING SURFACE: MONOLITHIC CONCRETE	
APPROACH SLABS: AS-1-B1 (30' LONG)	
LATITUDE: 38°46'06" N	
LONGITUDE: 82°52'36" W	



BORING INFORMATION	
BORING ID	T/ROCK ELEV.
TR-41	482.4
TR-42	476.0
B-37	472.2



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DESIGN AGENCY: SYSTEMS  
 570 PERIMETER DRIVE, SUITE 200  
 DUBLIN, OHIO 43017

DATE: 9/24/07  
 REVIEWED: MSL  
 DRAWN: PJP  
 DESIGNED: PJP  
 CHECKED: MSL  
 STRUCTURE FILE NUMBER: 7.306334

SC10TO COUNTY  
 STA. 112+84.14  
 STA. 117+64.86

SITE PLAN  
 BRIDGE NO. SC1-823-0214 R  
 S.R. 823 OVER CSXT RAILROAD

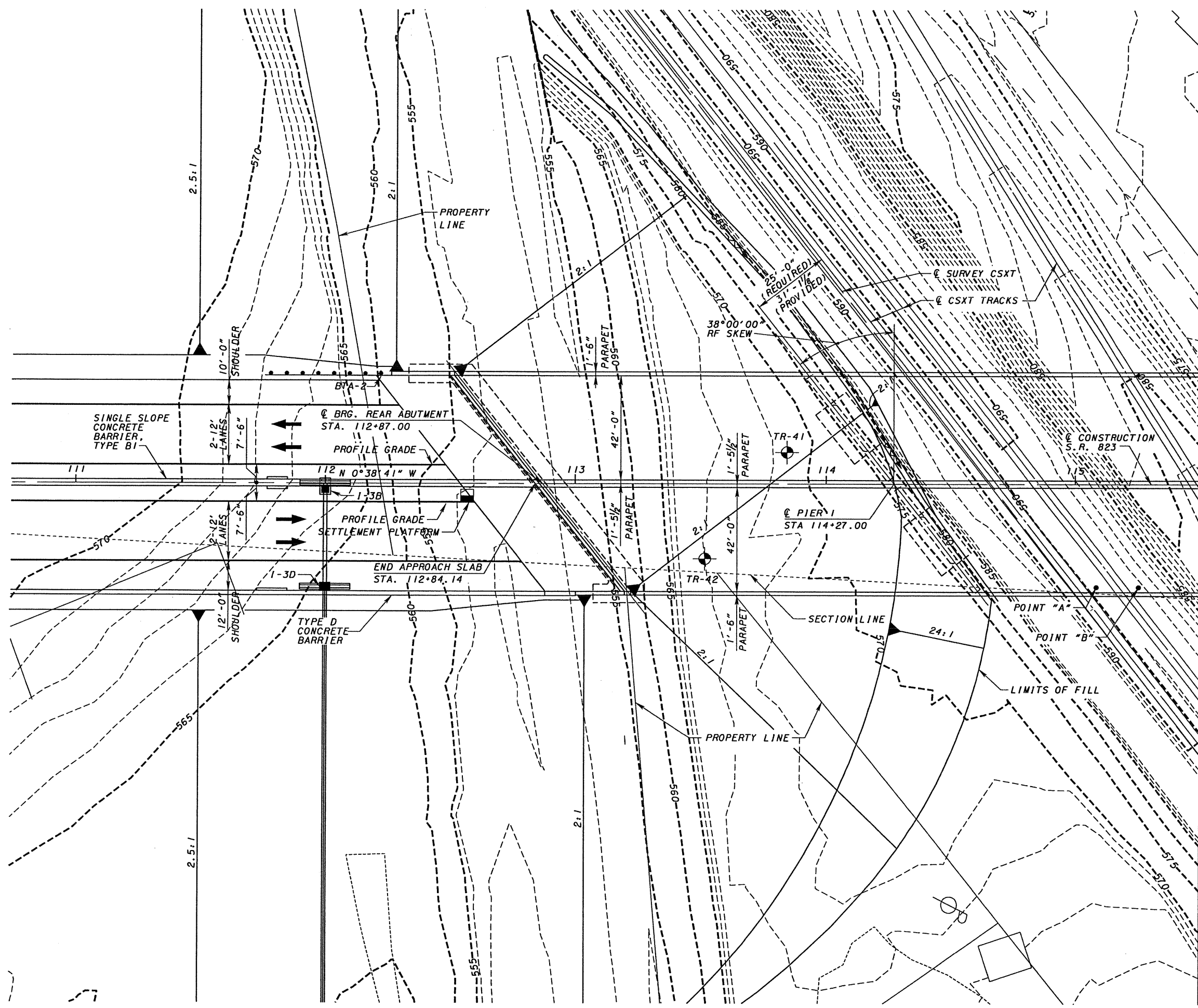
SC1-823-0.00  
 PID 77366

3 / 8  
 822  
 847

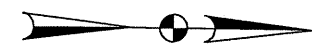










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MATCHLINE STA. 115+50

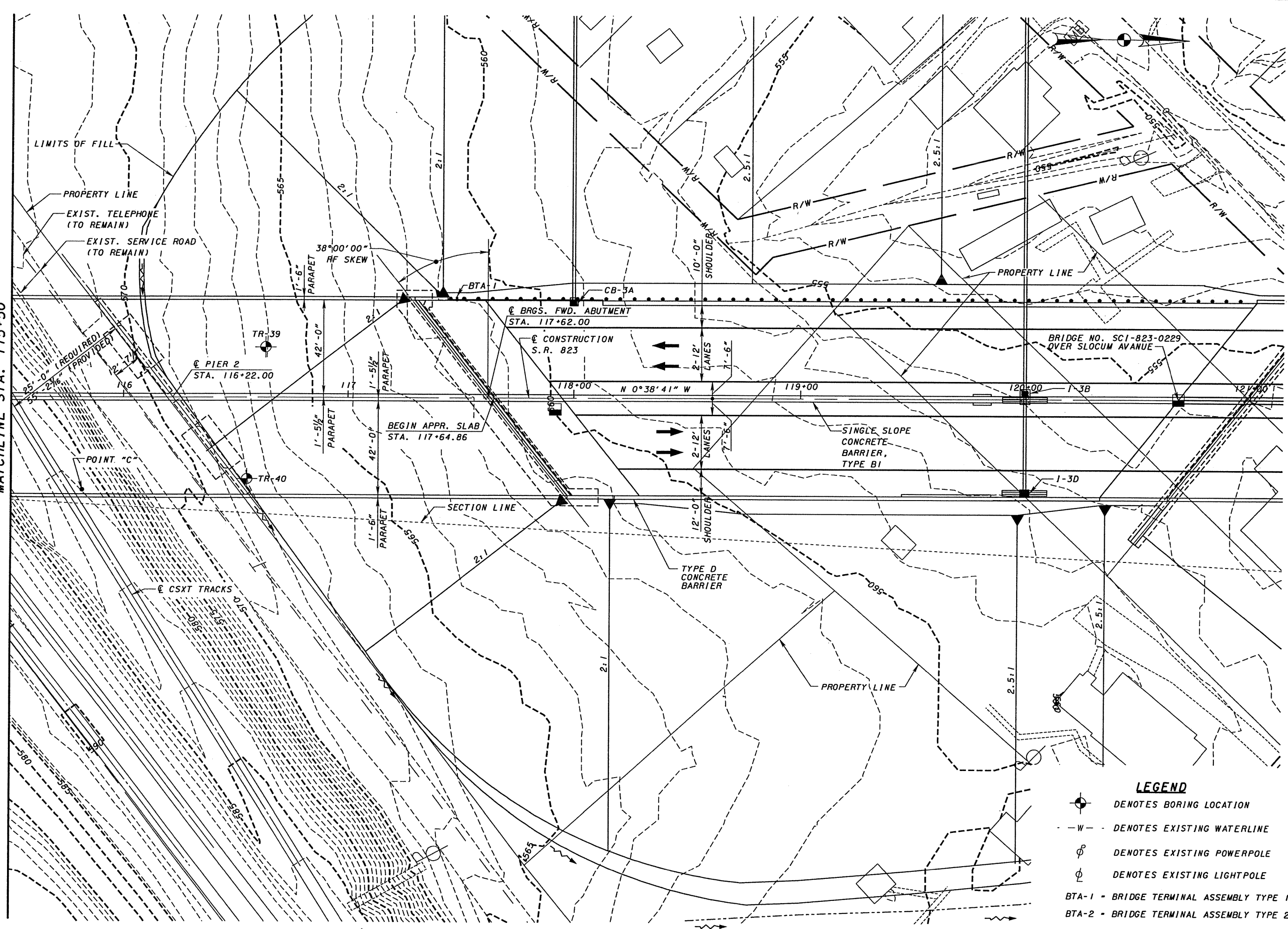


- LEGEND**
-  DENOTES BORING LOCATION
  -  - - - DENOTES EXISTING WATERLINE
  -  DENOTES EXISTING POWERPOLE
  -  DENOTES EXISTING LIGHTPOLE
- BTA-1 - BRIDGE TERMINAL ASSEMBLY TYPE 1  
 BTA-2 - BRIDGE TERMINAL ASSEMBLY TYPE 2

	
<b>GENERAL PLAN</b> BRIDGE NO. SCI-823-0214 L&R S.R. 823 OVER CSXT RAILROAD	DESIGN AGENCY <b>Tetra Systems</b> 3700 PEPPER DRIVE, SUITE 200 BELL, MISSISSIPPI
DESIGNED PJP	REVIEWED MSL
CHECKED MSL	DATE 9/24/07
STRUCTURE TITLE NUMBER 7306326	STRUCTURE FILE NUMBER 7306326
SCI-823-0.00 PID 77366	
5 / 8	
	

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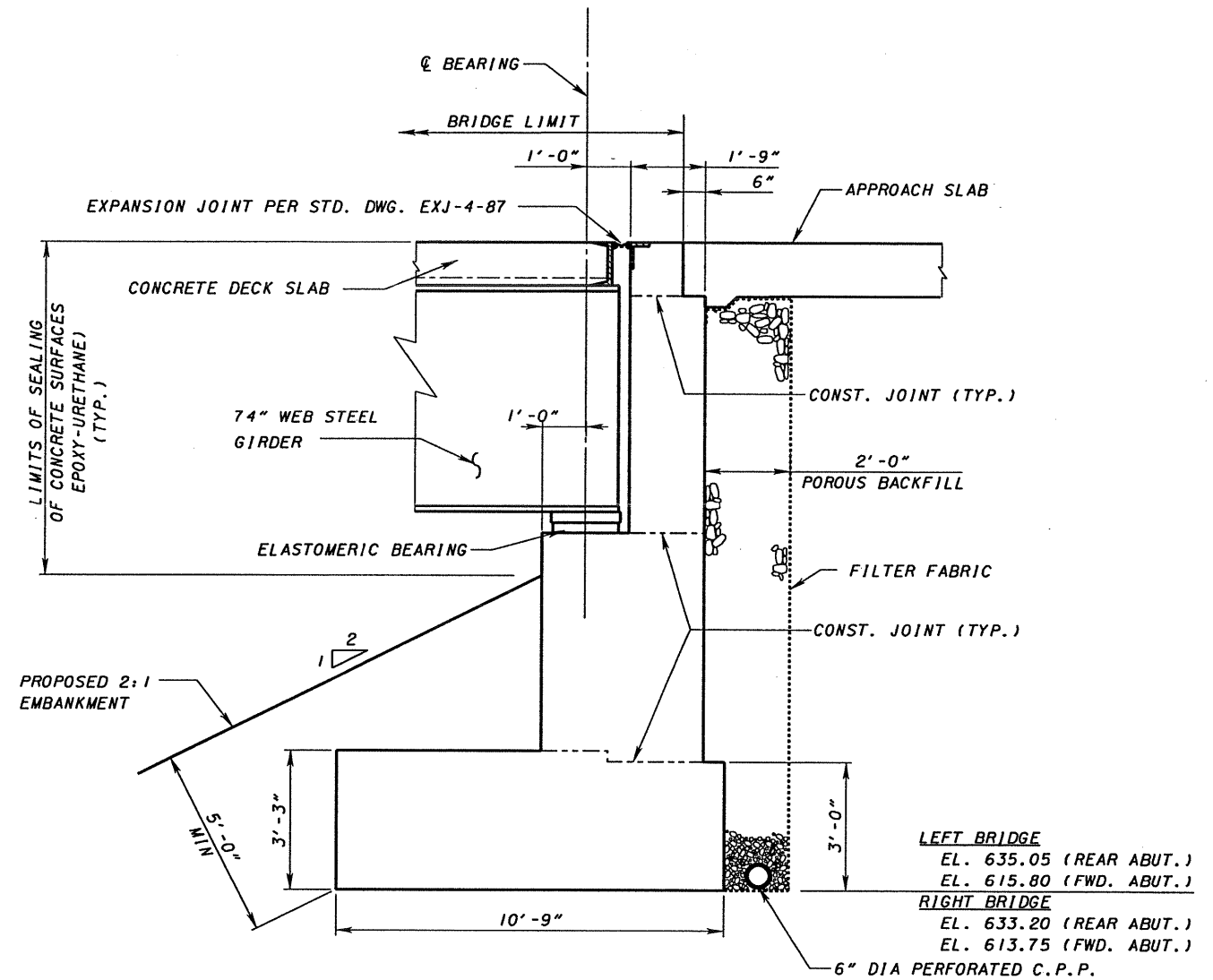
MATCHLINE STA. 115+50



- LEGEND**
- DENOTES BORING LOCATION
  - DENOTES EXISTING WATERLINE
  - DENOTES EXISTING POWERPOLE
  - DENOTES EXISTING LIGHTPOLE
  - BTA-1 - BRIDGE TERMINAL ASSEMBLY TYPE 1
  - BTA-2 - BRIDGE TERMINAL ASSEMBLY TYPE 2

<b>Train Systems</b> <small>BY PROJECTS DIV. DATE: 11/26/07          FILE: 77366</small>	DESIGNER AGENCY
	DATE 9/24/07
REVIEWED MSL	STRUCTURE FILE NUMBER 7306326
DRAWN PJP	REVISED
DESIGNED PJP	CHECKED MSL
<b>GENERAL PLAN</b>	
BRIDGE NO. SCI-823-0214 L&R	
S.R. 823 OVER CSXT RAILROAD	
SCI-823-0.00	PID 77366
6 / 8	825 847

SUPERSTRUCTURE DEPTH	
ITEM	74" WEB STEEL PLATE GIRDER
SLAB (INCLUDING WEARING SURFACE)	8 3/4"
HAUNCH (BOTTOM OF SLAB TO TOP OF FLANGE)	2"
GIRDER DEPTH	76"
TOP OF WEARING SURFACE TO BOTTOM OF GIRDER FLANGE (INCH)	86.75"
TOP OF WEARING SURFACE TO BOTTOM OF GIRDER FLANGE (FEET)	7.229'



**PROPOSED ABUTMENT SECTION**

**NOTES:**

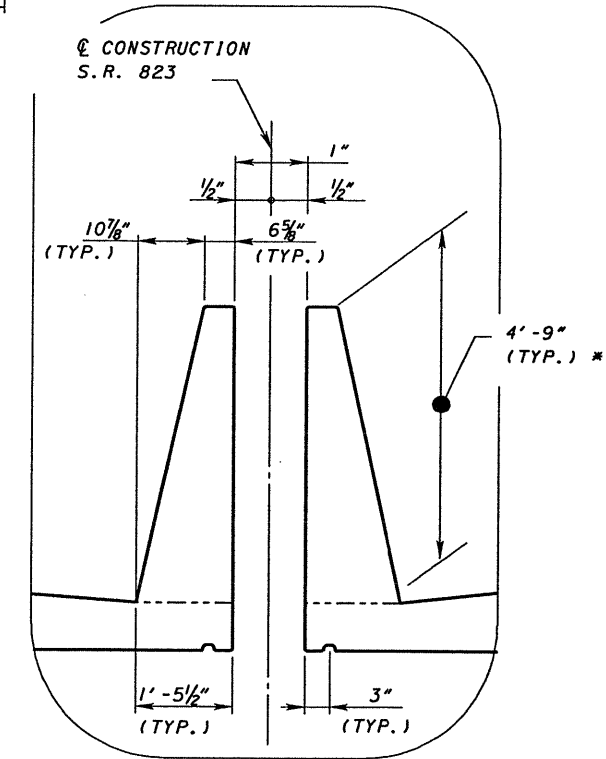
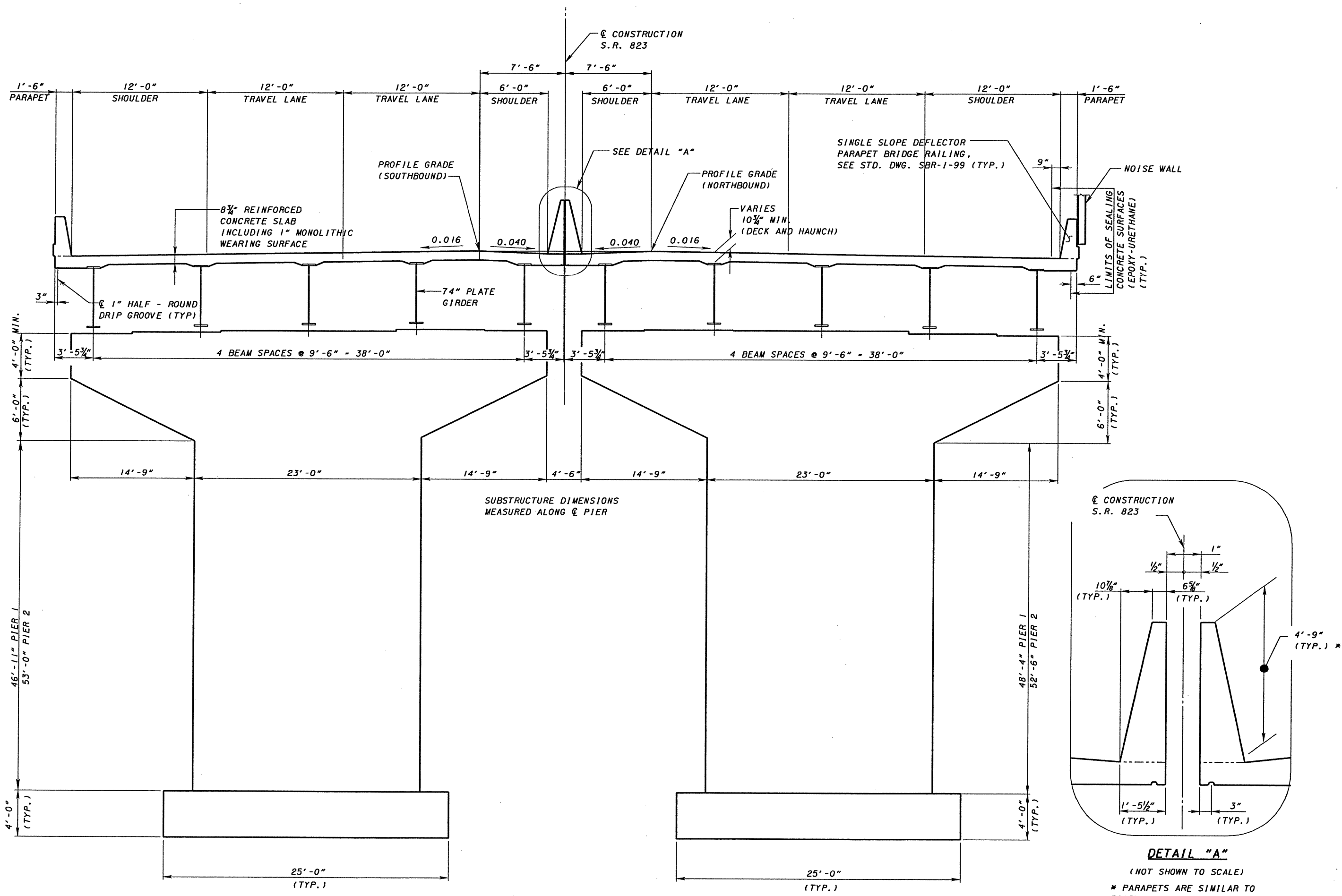
1. WICK DRAINS AND SETTLEMENT MONITORING ARE REQUIRED FOR THE PROPOSED EMBANKMENT CONSTRUCTION. SEE WICK DRAIN AND INSTRUMENTATION PLANS FOR MORE DETAILS.
2. CONSTRUCTION CONSTRAINTS: PRIOR TO CONSTRUCTING THE SPREAD FOOTING FOUNDATIONS, CONSTRUCT THE BRIDGE APPROACH EMBANKMENTS BEHIND THE ABUTMENT UP 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. CONSTRUCTION OF THE PIER AND ABUTMENT FOUNDATIONS CAN PROCEED AFTER THE GEOTECHNICAL DESIGN COORDINATOR HAS DETERMINED THAT 98% CONSOLIDATION HAS BEEN REACHED. THE ESTIMATED TIME TO 98% CONSOLIDATION DEPENDS UPON THE WICK DRAIN SPACING SELECTED TO CONSTRUCT THE EMBANKMENT. 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.
3. ITEM 203 EMBANKMENT, AS PER PLAN: PLACE AND COMPACT EMBANKMENT MATERIAL IN 6 INCH LIFTS FOR THE CONSTRUCTION OF THE APPROACH EMBANKMENT BETWEEN STATIONS 111+80 TO 119+30.

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DESIGN AGENCY: **Systems**  
 DATE: 9/24/07  
 REVISIONS: MSL 73063261, 7306334R  
 DRAWN: PJP  
 CHECKED: MSL  
 ABUTMENT SECTION  
 BRIDGE NO. SC1-823-0214 L&R  
 SR 823 OVER CSXT RAILROAD  
 SC1-823-0.00  
 PID 77366  
 7/8  
 826  
 847



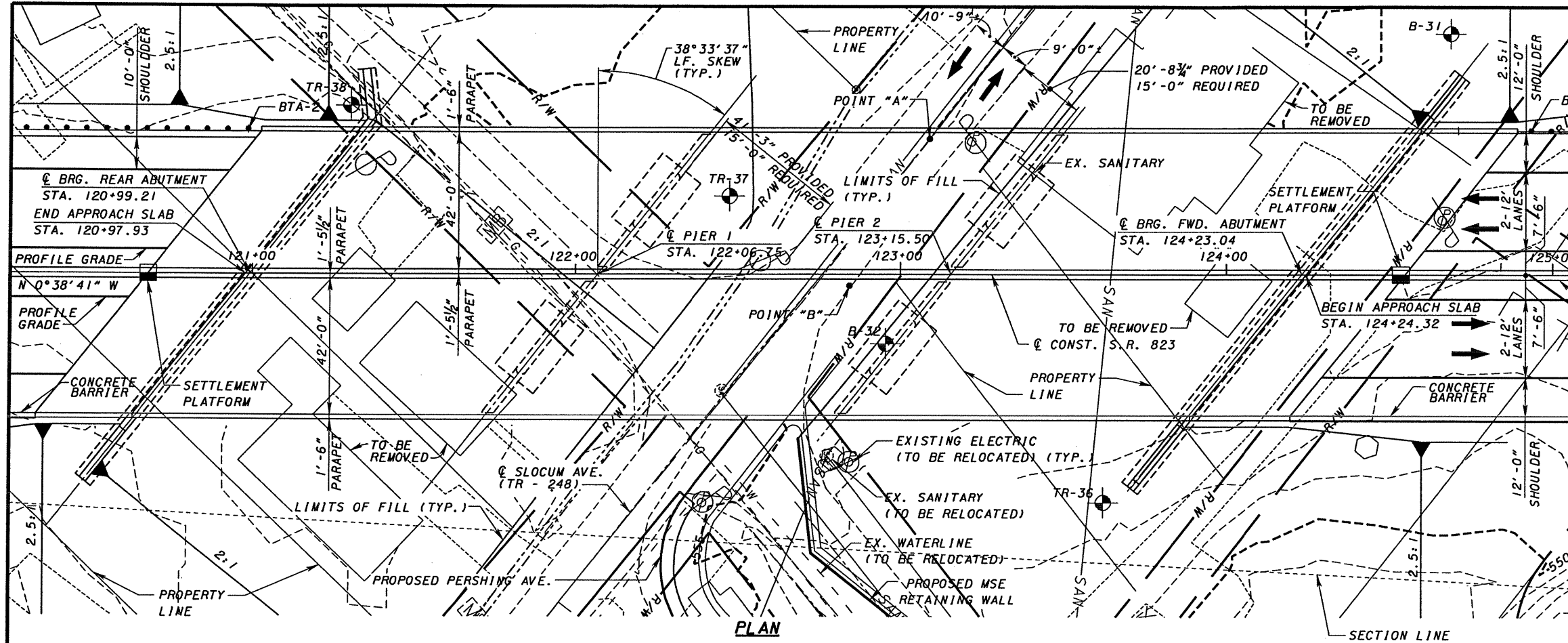
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**DETAIL "A"**  
 (NOT SHOWN TO SCALE)  
 \* PARAPETS ARE SIMILAR TO ROADWAY CONCRETE MEDIAN BARRIER

DESIGNED	DATE
PJP	9/24/07
CHECKED	STRUCTURE FILE NUMBER
MSL	7306326L, 7306334R
DRAWN	REVIEWED
PJP	MSL
REVISED	
<b>TRANSVERSE SECTION</b> BRIDGE NO. SCI-823-0214 L&R SR 823 OVER CSXT RAILROAD	
SCI-823-0.00 PID 77366	
8 / 8	





**FIRST GUARDRAIL POST OFF BRIDGE LOCATIONS**

LOCATION	STATION
REAR ABUT. (SB)	120+98.36
FWD. ABUT. (SB)	124+93.15

BENCHMARK 1	BENCHMARK 2
(TO BE PROVIDED LATER)	(TO BE PROVIDED LATER)

**TRAFFIC DATA**

S.R. 823

CURRENT YEAR ADT (2010) = 21,200  
 DESIGN YEAR ADT (2030) = 31,200  
 CURRENT YEAR ADTT (2010) = 2,968  
 DESIGN YEAR ADTT (2030) = 4,368

- LEGEND**
- BTA-1 - BRIDGE TERMINAL ASSEMBLY TYPE 1
  - BTA-2 - BRIDGE TERMINAL ASSEMBLY TYPE 2
  - ⊙ - BORING LOCATION

- NOTES:**
- ALL SHEETS WITH PLAN DIMENSIONS ARE SHOWN HORIZONTAL.
  - EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS..

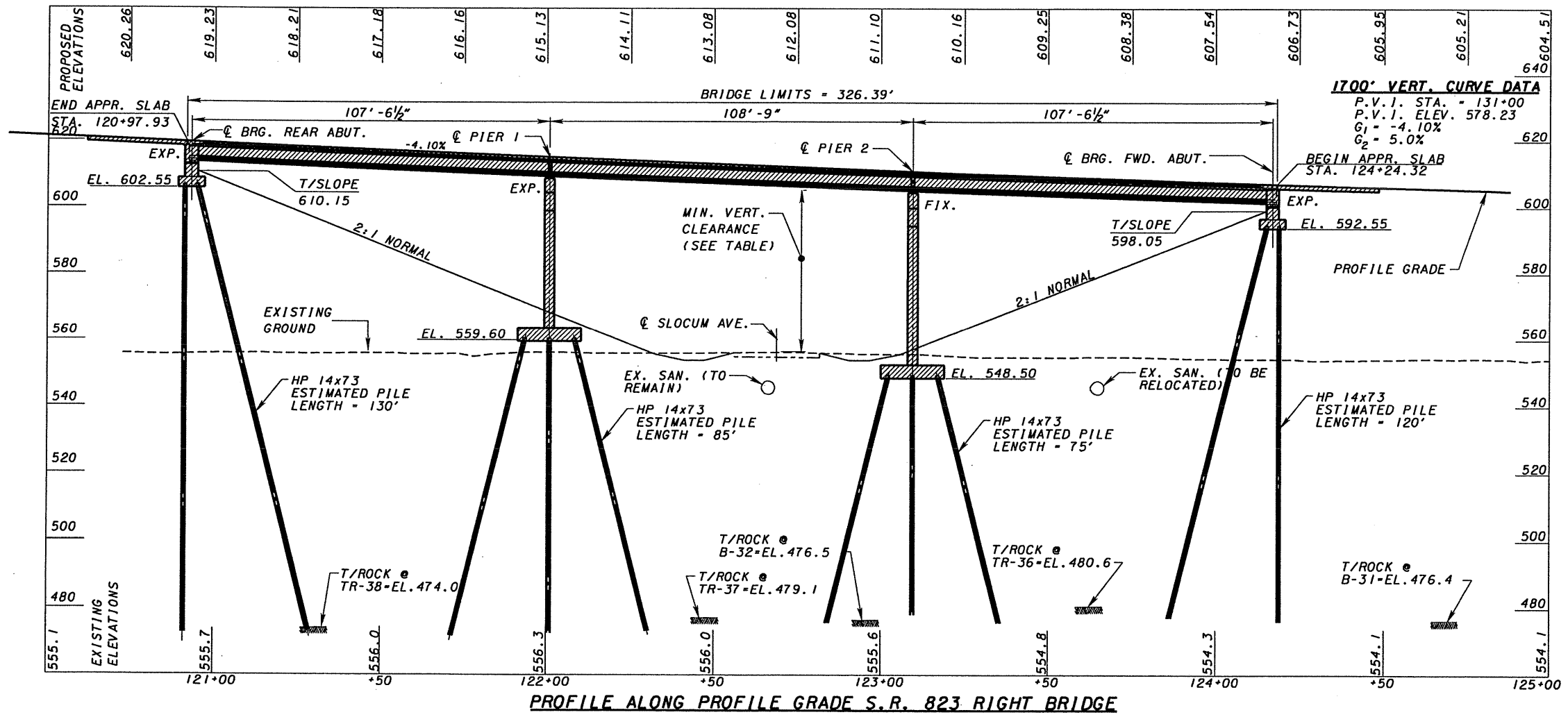
**TABLE OF VERTICAL CLEARANCES**

LOCATION	"A"	"B"
PROPOSED	48.35'	49.92'
PREFERRED	15.0'	15.0'

**PROPOSED STRUCTURE**

TYPE: 3 SPAN CONTINUOUS 60" MODIFIED AASHTO  
 TYPE 4 PRESTRESSED CONCRETE I-BEAM  
 WITH COMPOSITE REINFORCED CONCRETE DECK  
 SUPPORTED BY REINFORCED CONCRETE T-TYPE  
 PIERS AND SEMI-INTEGRAL ABUTMENTS.

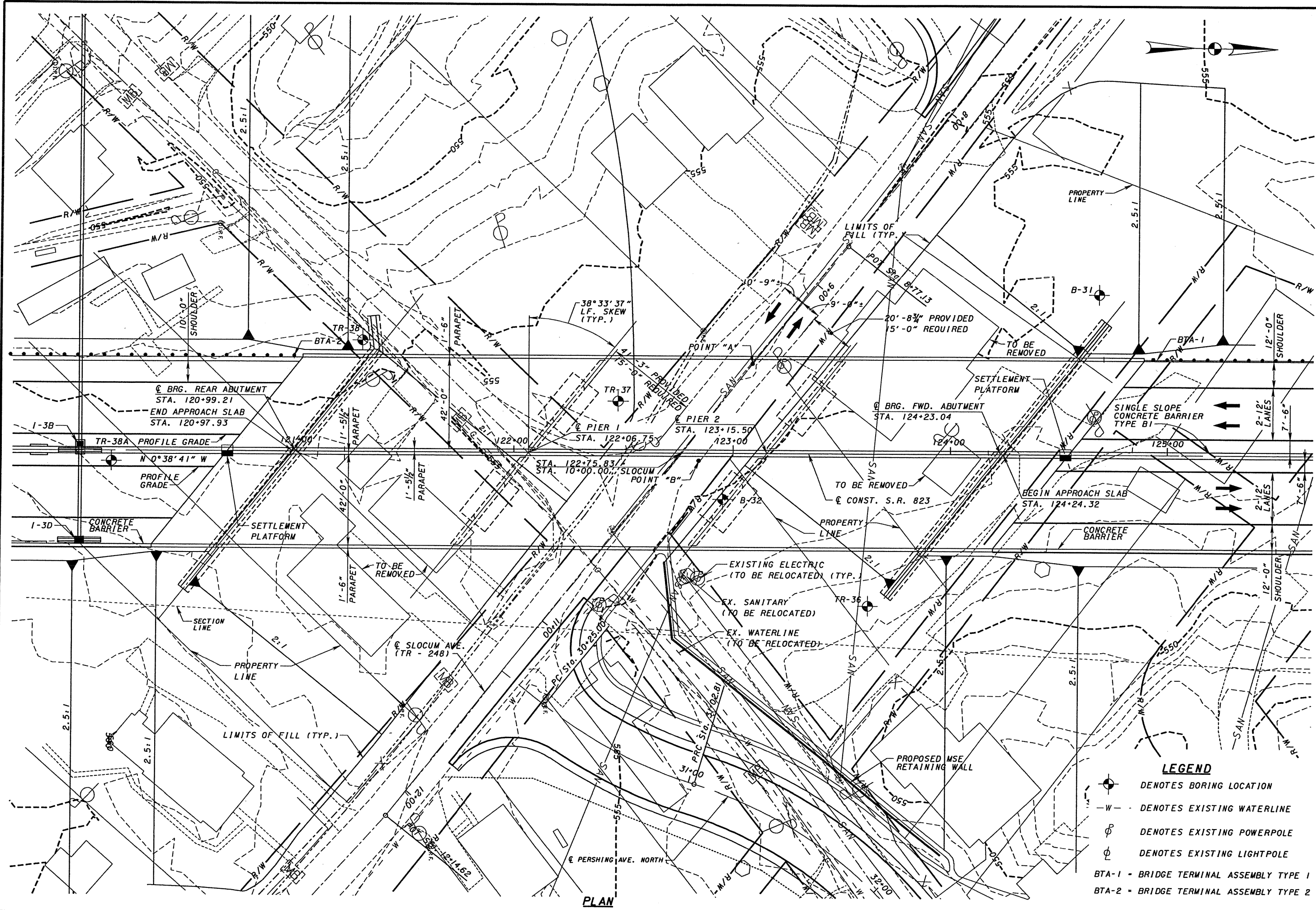
SPANS: 106'-4", 106'-4", 106'-4" (C/C BRG.)  
 ROADWAY: 2 - 42'-0" T/T OF PARAPETS  
 LOADING: HS-25 AND ALTERNATE  
 MILITARY LOADING, FWS-60 PSF  
 SKEW: 38°33'37" LF  
 CROWN: 0.016 FT/FT  
 ALIGNMENT: TANGENT  
 WEARING SURFACE: MONOLITHIC CONCRETE  
 APPROACH SLABS: AS-1-B1 (30' LONG)  
 LATITUDE: 38°46'13" N  
 LONGITUDE: 82°52'36" W



4:40:44 PM 11/28/2007 g:\c003\006A\bridge\cm\br\06-slocum\ts&l\823\_0229r.sp001.dgn

DESIGNED BY: MSL  
 CHECKED BY: MSL  
 DATE: 11/07/07  
 STRUCTURE FILE NUMBER: 7306350  
 SCIO TO COUNTY STA. 120+97.93 STA. 124+24.32  
 SITE PLAN BRIDGE NO. SCI-823-0229 R S.R. 823 OVER SLOCUM AVENUE (T.R. 248)  
 SCI-823-0.00 PID 77366  
 2/7  
 829/847

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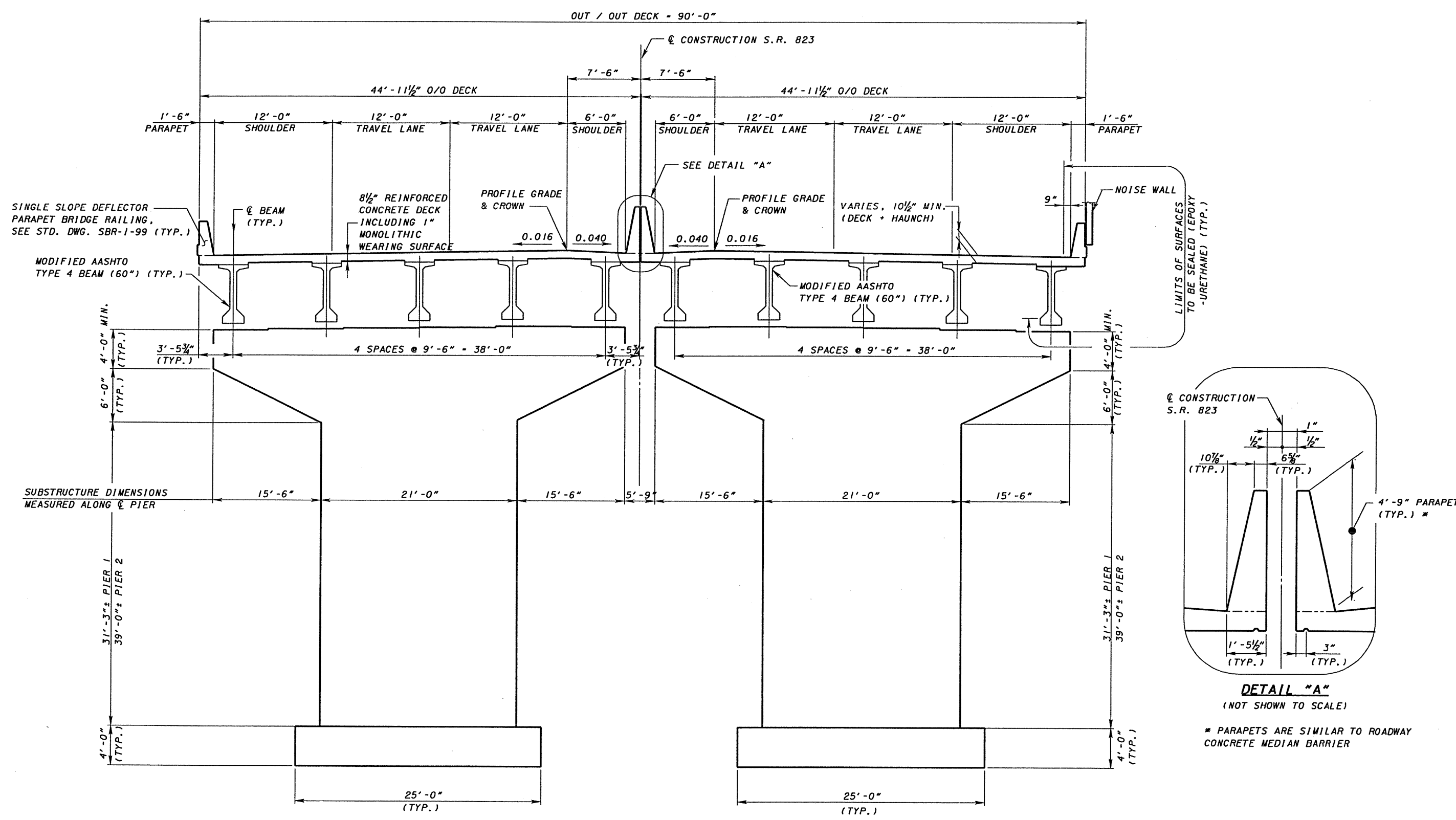


- LEGEND**
- ⊙ DENOTES BORING LOCATION
  - W- DENOTES EXISTING WATERLINE
  - ⊕ DENOTES EXISTING POWERPOLE
  - ⊙ DENOTES EXISTING LIGHTPOLE
  - BTA-1 - BRIDGE TERMINAL ASSEMBLY TYPE 1
  - BTA-2 - BRIDGE TERMINAL ASSEMBLY TYPE 2

	DESIGN AGENCY TETRA SYSTEMS <small>570 PARKWAY DRIVE, SUITE 400          DUBLIN, OHIO 43017</small>
DESIGNED PJP	CHECKED MSL
DRAWN AWB	REVISED MSL
REVIEWED MSL	DATE 11/07/07
STRUCTURE FILE NUMBER 73063421, 73063509	
<b>GENERAL PLAN</b> BRIDGE NO. SC1-823-0229 L&R S. R. 823 OVER SLOCUM AVENUE (T. R. 248)	
SC1-823-0.00 PID 77366	3 / 7 830 847



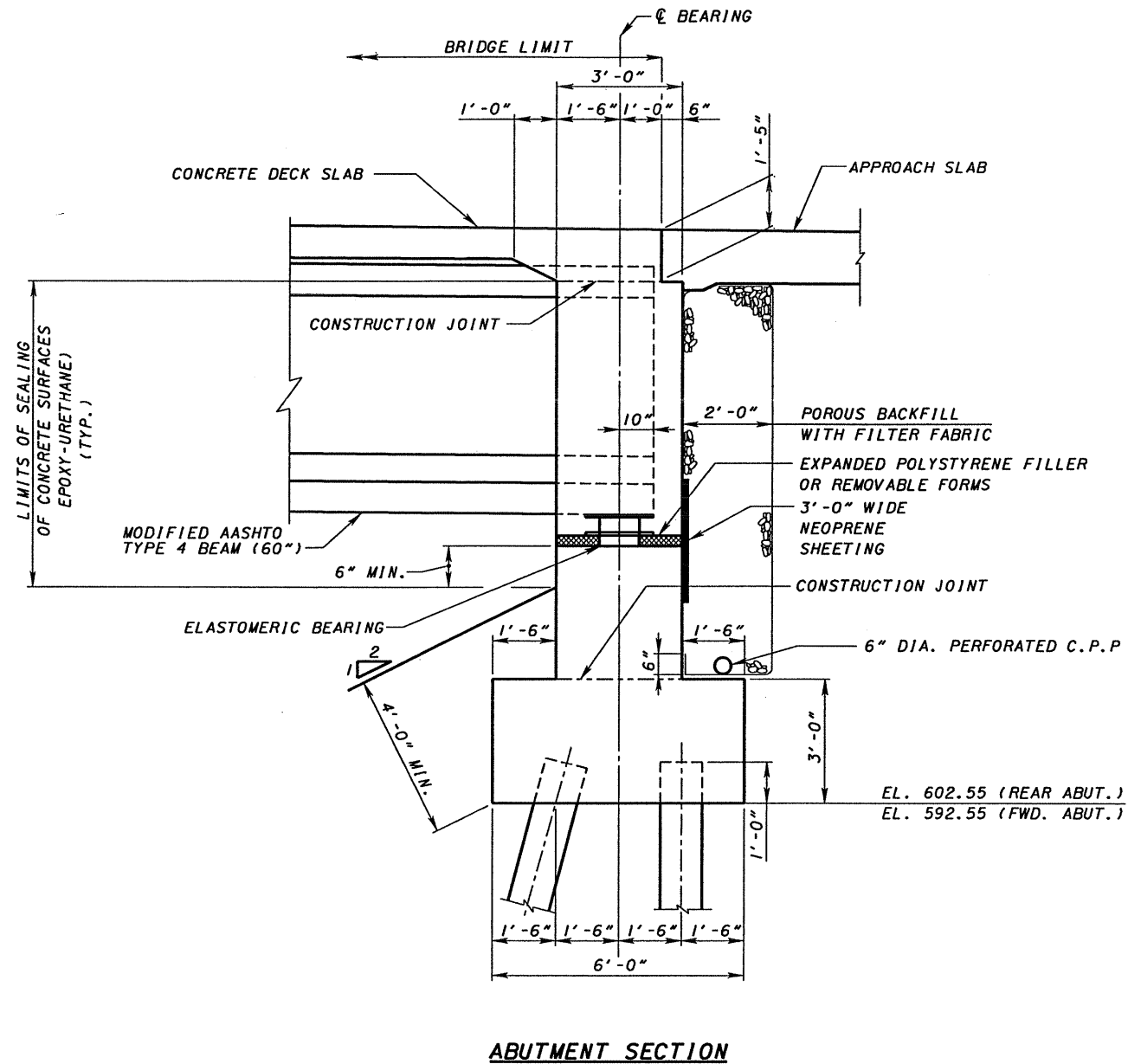
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TYPICAL TRANSVERSE SECTION

DESIGN AGENCY <b>Systems</b>	
DATE 11/07/07	REVIEWED MSL
STRUCTURE FILE NUMBER 7306342L, 7306350R	DRAWN CAS
DESIGNED PJP	CHECKED MSL
TRANSVERSE SECTION	
BRIDGE NO. SC1-823-0229 L&R	
S.R. 823 OVER SLOCUM AVENUE (T.R. 248)	
SC1-823-0.00	PID 77366
4 / 7	831 847

SUPERSTRUCTURE DEPTH	
ITEM	60" MODIFIED AASHTO TYPE 4 BEAM
SLAB (INCLUDING WEARING SURFACE)	8.5"
HAUNCH (BOTTOM OF SLAB TO TOP OF FLANGE)	2"
GIRDER DEPTH	60"
TOP OF WEARING SURFACE TO BOTTOM OF GIRDER FLANGE (INCH)	70.5"
TOP OF WEARING SURFACE TO BOTTOM OF GIRDER FLANGE (FEET)	5.875'



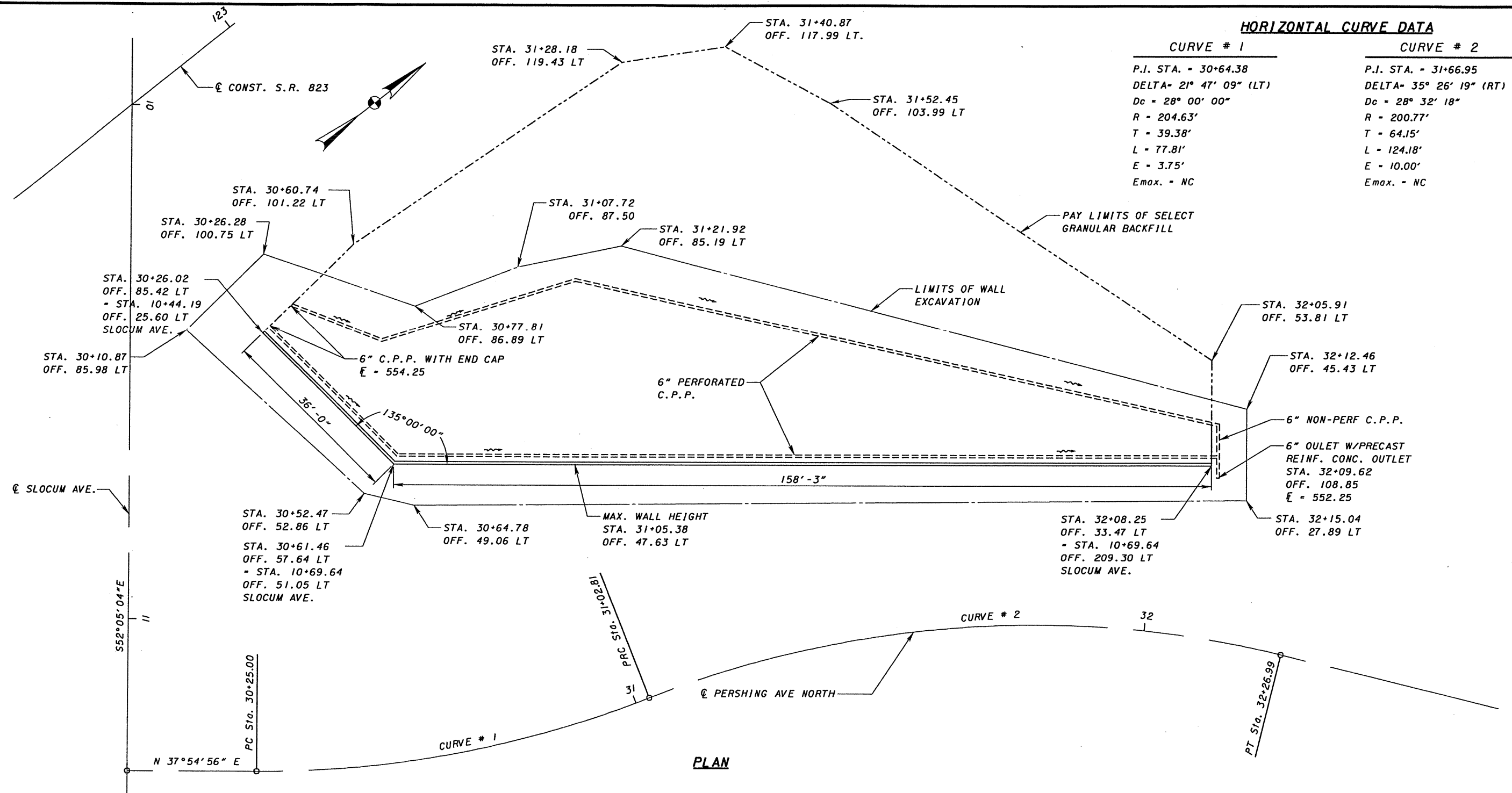
**ABUTMENT SECTION**

**NOTES:**

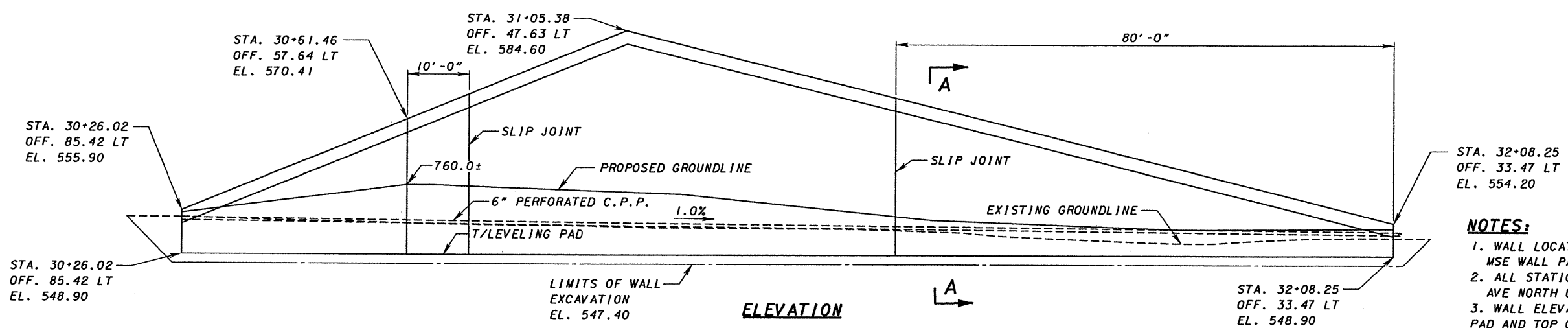
1. WICK DRAINS AND SETTLEMENT MONITORING ARE REQUIRED FOR THE PROPOSED EMBANKMENT CONSTRUCTION. SEE WICK DRAIN AND INSTRUMENTATION PLANS FOR MORE DETAILS.
2. CONSTRUCTION CONSTRAINTS: PRIOR TO CONSTRUCTING THE PROPOSED PILE FOUNDATIONS, CONSTRUCT THE BRIDGE APPROACH EMBANKMENTS BEHIND THE ABUTMENT UP 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. CONSTRUCTION OF THE PIER AND ABUTMENT FOUNDATIONS CAN PROCEED AFTER THE GEOTECHNICAL DESIGN COORDINATOR HAS DETERMINED THAT 99% CONSOLIDATION HAS BEEN REACHED. THE ESTIMATED TIME TO 99% CONSOLIDATION DEPENDS UPON THE WICK DRAIN SPACING SELECTED TO CONSTRUCT THE EMBANKMENT. 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.
3. ITEM 203 GRANULAR MATERIAL, TYPE B, AS PER PLAN: PLACE AND COMPACT GRANULAR EMBANKMENT MATERIAL IN 6 INCH LIFTS FOR THE CONSTRUCTION OF THE APPROACH EMBANKMENT BETWEEN STATIONS 119+30 TO 125+25.

**HORIZONTAL CURVE DATA**

CURVE # 1	CURVE # 2
P.I. STA. = 30+64.38	P.I. STA. = 31+66.95
DELTA = 21° 47' 09" (LT)	DELTA = 35° 26' 19" (RT)
Dc = 28° 00' 00"	Dc = 28° 32' 18"
R = 204.63'	R = 200.77'
T = 39.38'	T = 64.15'
L = 77.81'	L = 124.18'
E = 3.75'	E = 10.00'
Emax. = NC	Emax. = NC



**PLAN**



**ELEVATION**

- NOTES:**
1. WALL LOCATIONS GIVEN TO FRONT FACE OF MSE WALL PANELS.
  2. ALL STATIONS GIVEN FROM & PERSHING AVE NORTH UNLESS NOTED OTHERWISE.
  3. WALL ELEVATIONS GIVEN TO TOP OF LEVELING PAD AND TOP OF MSE WALL COPING.
  4. SEE SHEET [ ] FOR SECTION A-A.

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DESIGN AGENCY
Train Systems

500 PERIMETER DRIVE, SUITE 200  
DALLAS, TEXAS 75244

DATE
11/07/07

REVIEWED
MSL

STRUCTURE FILE NUMBER
7306342L - 7306350R

DRAWN
CAS

REVISOR
PJP

DESIGNED
CAS

CHECKED
PJP

BRIDGE NO.
SC1-823-0229 L&R

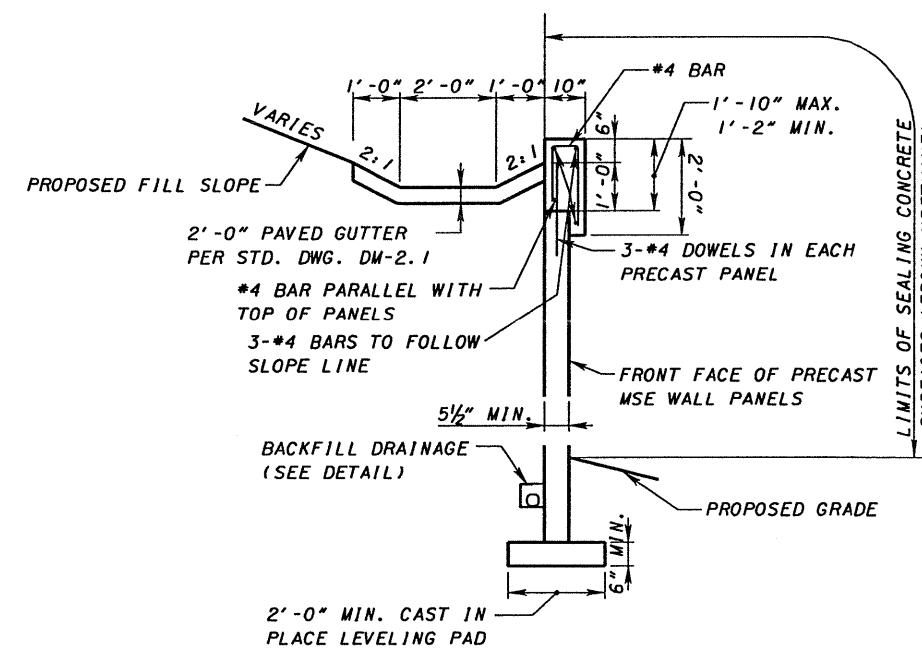
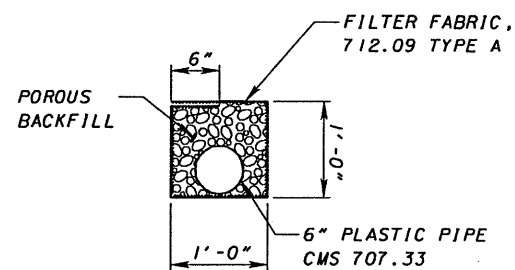
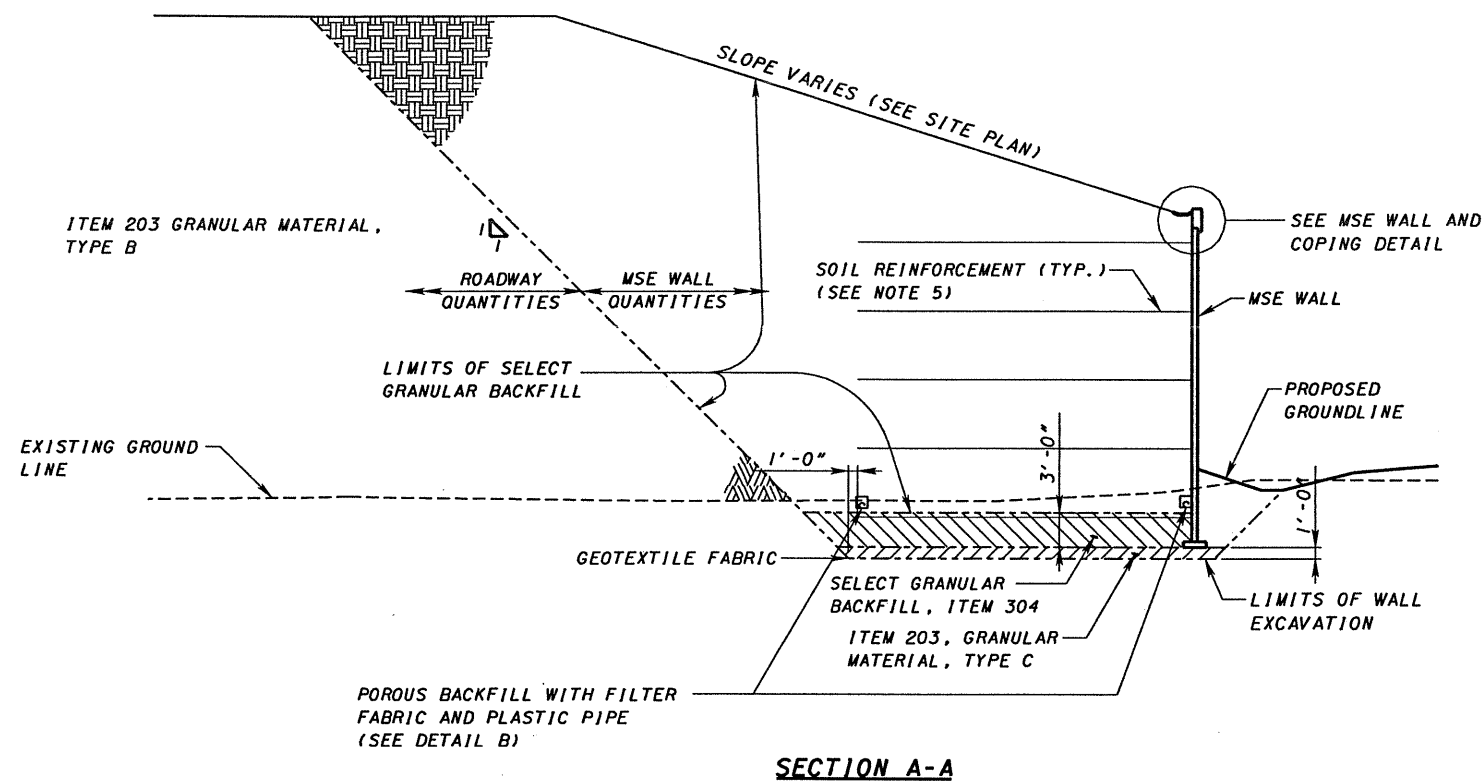
SR823 OVER SLOCUM AVENUE (TR 248)

PID
77366

6
/
7

833

847



MSE WALL AND COPING DETAIL

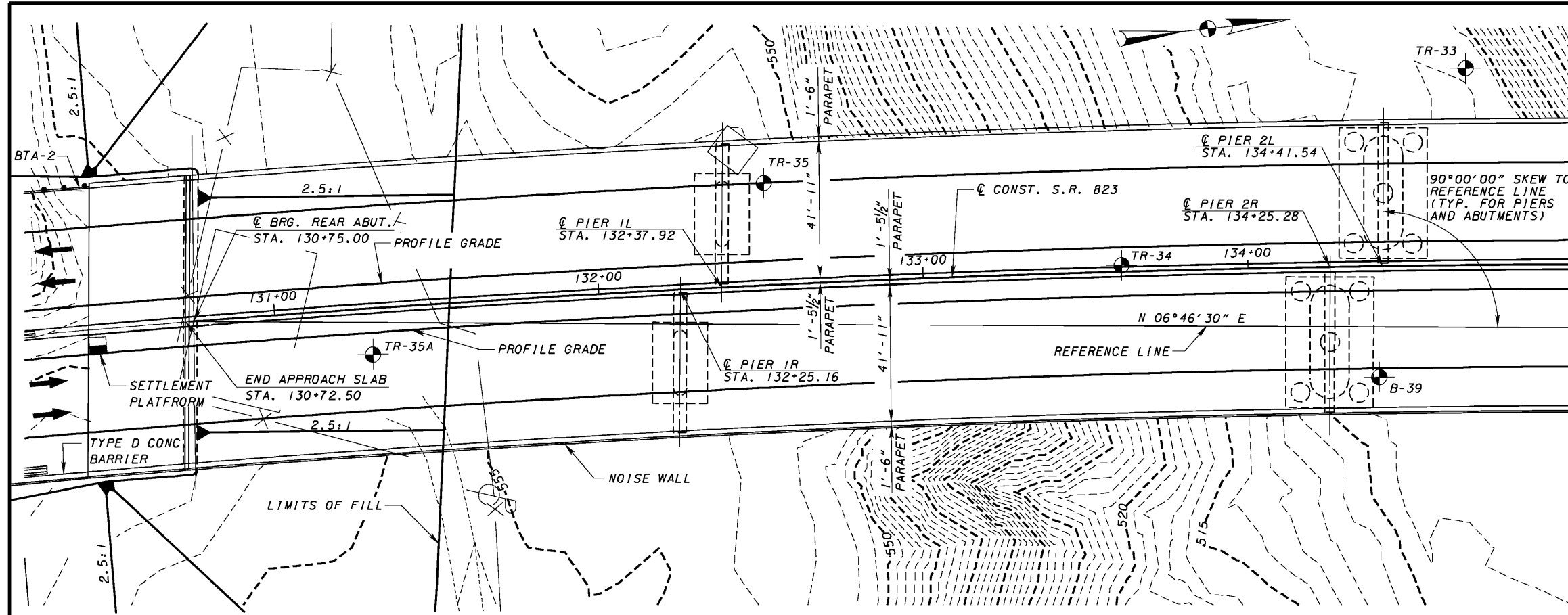
NOTES:

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. WICK DRAINS AND SETTLEMENT MONITORING ARE REQUIRED FOR THE PROPOSED EMBANKMENT AND WALL CONSTRUCTION. SEE WICK DRAIN AND INSTRUMENTATION PLANS FOR MORE DETAILS.
5. PROPRIETARY RETAINING WALL DATA: THE PROPRIETARY WALL SUPPLIER SHALL DESIGN THE INTERNAL STABILITY OF A MECHANICALLY STABILIZED EARTH (MSE) WALL IN ACCORDANCE WITH 55840. THE MINIMUM REINFORCEMENT LENGTH REQUIRED TO SATISFY EXTERNAL STABILITY IS  $1.0 \times H$  IN ACCORDANCE WITH DLZ OHIO INC. SUBSURFACE INVESTIGATION REPORT OF 9/06/07. WALL HEIGHT H IS DEFINED IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 840.

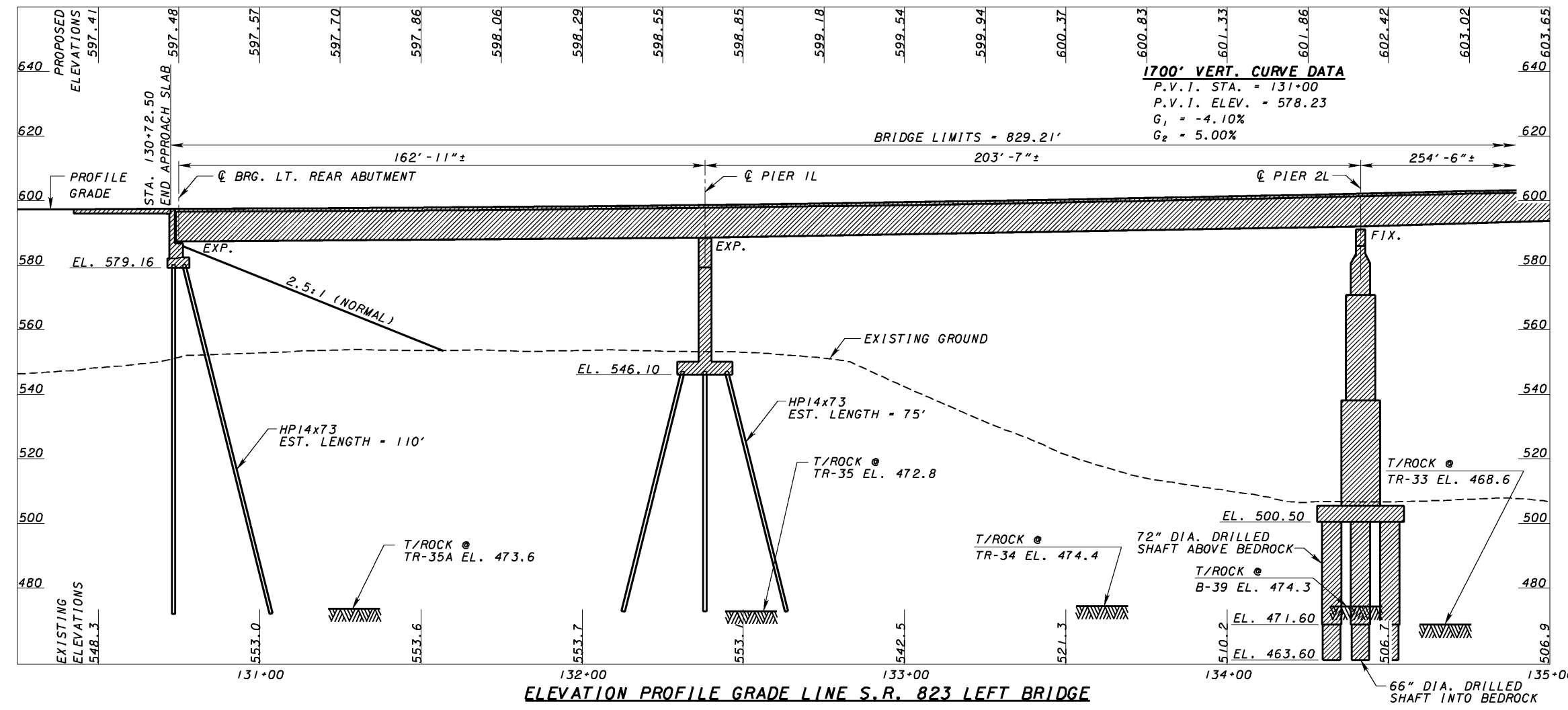
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24:32:35 PM 2/21/2008 g:\co03\0064\br\ideg\cn\br\te\07-sr-335&11\sciotoriver\tr\tr\823-0248\ep001.dgn



PLAN



ELEVATION PROFILE GRADE LINE S.R. 823 LEFT BRIDGE

FIRST GUARDRAIL POST OFF BRIDGE LOCATIONS	
LOCATION	STATION
REAR ABUT. (SB)	130+41.42
FWD. ABUT. (SB)	139+32.36

BENCHMARK 1	BENCHMARK 2
(TO BE PROVIDED LATER)	(TO BE PROVIDED LATER)

TRAFFIC DATA	
S.R. 823	
CURRENT YEAR ADT (2010) - 21,200	
DESIGN YEAR ADT (2030) - 31,200	
CURRENT YEAR ADTT (2010) - 2,970	
DESIGN YEAR ADTT (2030) - 4,370	

- 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: 4 SPAN CONTINUOUS STEEL PLATE GIRDER A709 GRADE 50W, DOG LEGGED AT SPLICES, WITH COMPOSITE REINFORCED CONCRETE DECK ON STUB ABUTMENTS AND T-TYPE PIERS

SPANS: 162'-11"±, 203'-4"±, 254'-6"±, 203'-2"± (MEASURED ALONG & CONST. S.R. 823)

ROADWAY: 2 - 41'-11" TOE TO TOE PARAPETS

LOADING: HS-25 (CASE 1) AND ALTERNATE MILITARY LOADING, FWS-60 PSF

SKIEW: 0°00'00" WITH RESPECT TO THE REFERENCE LINE (ALSO SEE FRAMING PLAN)

SUPERELEVATION: 0.036 FT/FT ACROSS TRAVEL LANES

ALIGNMENT: Dc = 1°00'00" (TO THE RIGHT)

WEARING SURFACE: MONOLITHIC CONCRETE

APPROACH SLABS: AS-1-81 (30' LONG)

LATITUDE: 38°46'28" N

LONGITUDE: 82°51'52" W



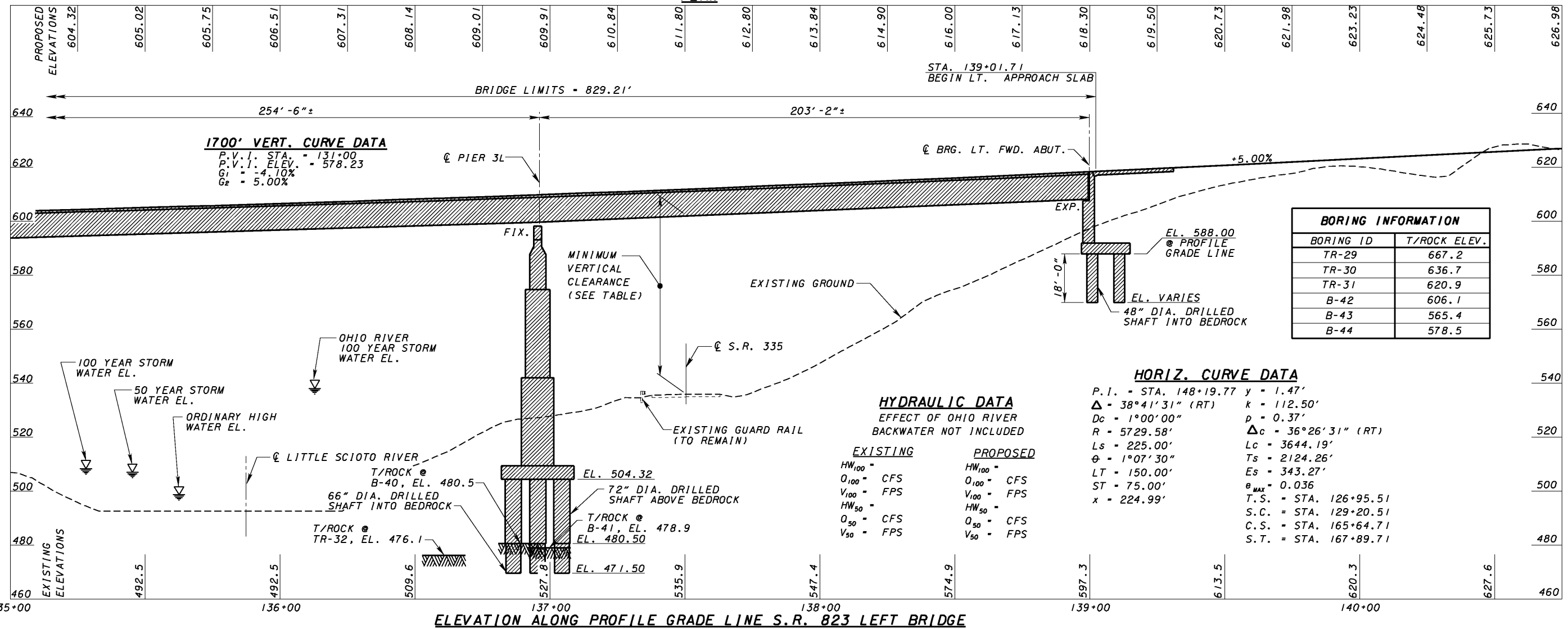
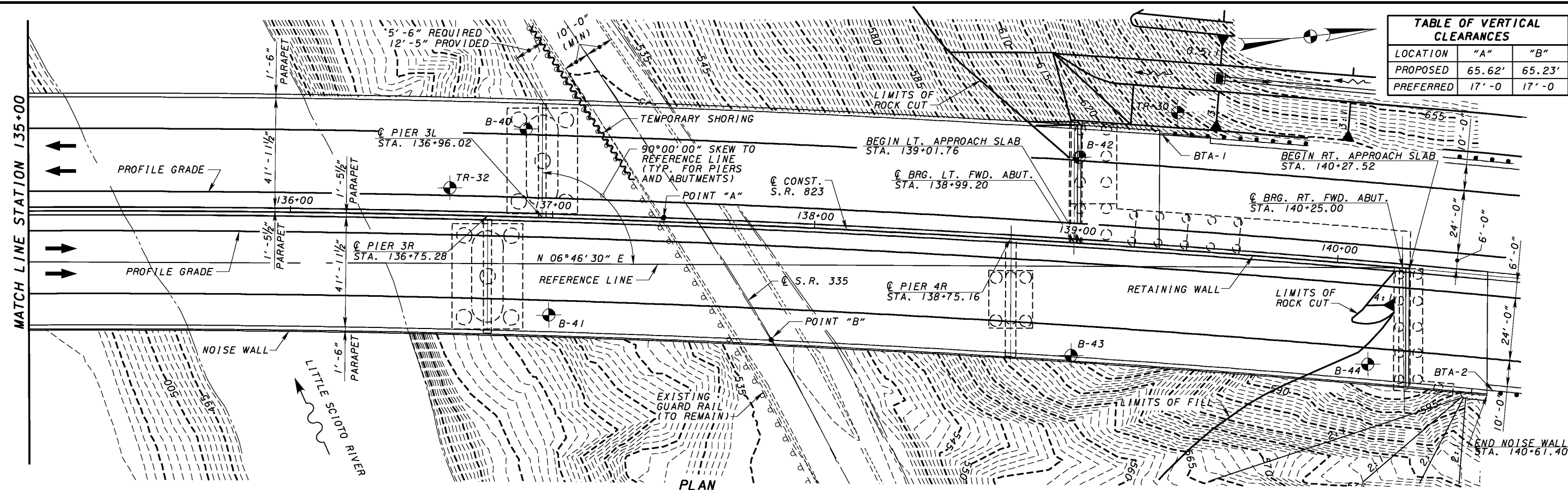
DESIGN AGENCY  
DATE 02/21/08  
REVIEWED MSL  
STRUCTURE FILE NUMBER 7-306369  
DRAWN MTN  
CHECKED PJP

SCIO TO COUNTY  
STA. 130+72.50  
STA. 139+01.71

**SITE PLAN**  
BRIDGE NO. SCO-823-0248 L  
S.R. 823 OVER S.R. 335 & LITTLE SCIO TO RIVER

SC1-823-0.00  
PID 77366

TABLE OF VERTICAL CLEARANCES		
LOCATION	"A"	"B"
PROPOSED	65.62'	65.23'
PREFERRED	17'-0"	17'-0"



**1700' VERT. CURVE DATA**  
 P.V.I. STA. = 131+00  
 P.V.I. ELEV. = 578.23  
 G<sub>1</sub> = -4.10%  
 G<sub>2</sub> = 5.00%

BORING INFORMATION	
BORING ID	T/ROCK ELEV.
TR-29	667.2
TR-30	636.7
TR-31	620.9
B-42	606.1
B-43	565.4
B-44	578.5

**HORIZ. CURVE DATA**  
 P.I. = STA. 148+19.77 y = 1.47'  
 $\Delta$  = 38° 41' 31" (RT) k = 112.50'  
 Dc = 1° 00' 00" p = 0.37'  
 R = 5729.58'  $\Delta$ c = 36° 26' 31" (RT)  
 Ls = 225.00' Lc = 3644.19'  
 $\theta$  = 1° 07' 30" Ts = 2124.26'  
 LT = 150.00' Es = 343.27'  
 ST = 75.00' e<sub>max</sub> = 0.036  
 T.S. = STA. 126+95.51  
 S.C. = STA. 129+20.51  
 C.S. = STA. 165+64.71  
 S.T. = STA. 167+89.71

**HYDRAULIC DATA**  
 EFFECT OF OHIO RIVER  
 BACKWATER NOT INCLUDED

<b>EXISTING</b>	<b>PROPOSED</b>
HW <sub>100</sub> =	HW <sub>100</sub> =
O <sub>100</sub> = CFS	O <sub>100</sub> = CFS
V <sub>100</sub> = FPS	V <sub>100</sub> = FPS
HW <sub>50</sub> =	HW <sub>50</sub> =
O <sub>50</sub> = CFS	O <sub>50</sub> = CFS
V <sub>50</sub> = FPS	V <sub>50</sub> = FPS

2/21/2008 2:32:43 PM g:\co03\0064\bridge\cn\bride\07-sr-335&lt;h1>littleciotoriver\tbl823\_0248sp002.dgn

DESIGN AGENCY: **Systems**  
 575 FEDERAL AVENUE, SUITE 400  
 COLUMBUS, OHIO 43215-4001

DESIGNED	MTN	CHECKED	PJP
DRAWN	MTN	REVISED	
REVIEWED	MSL	DATE	02/21/08
STRUCTURE FILE NUMBER	7-306369		

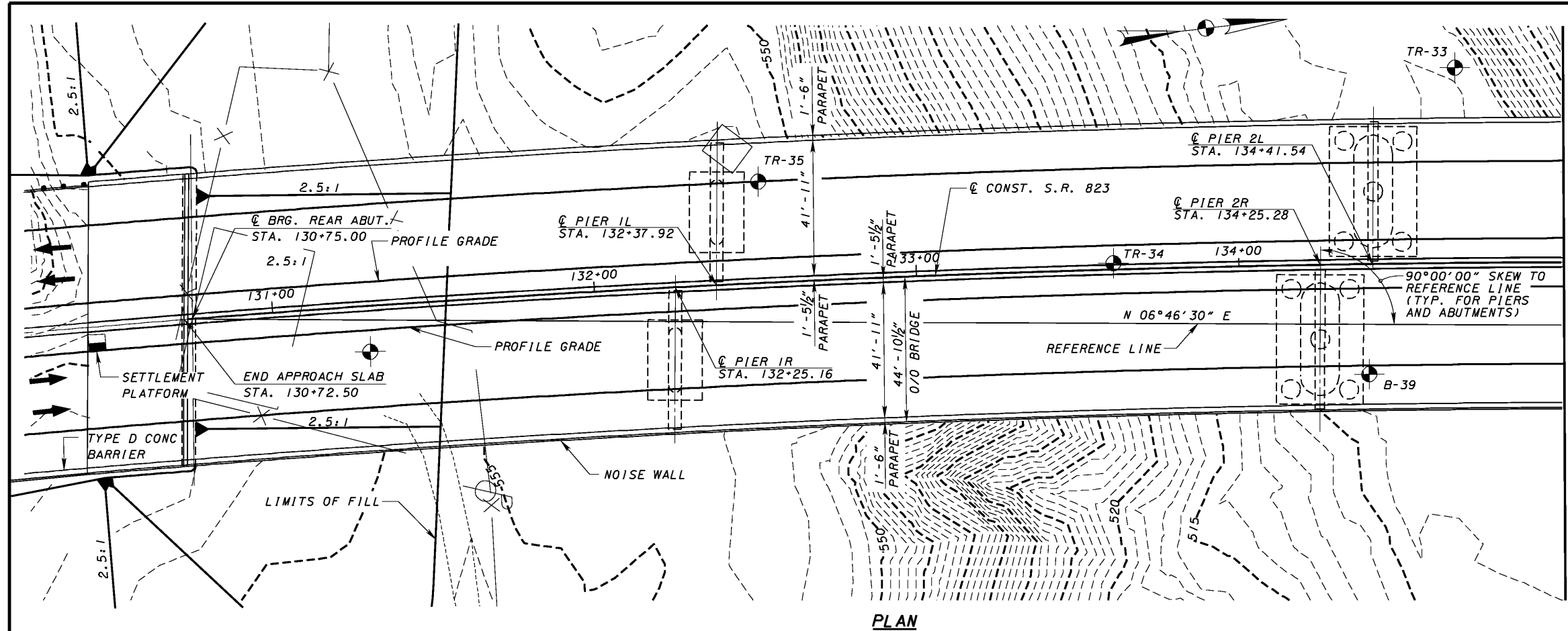
SCIO TO COUNTY  
 STA. 130+72.50  
 STA. 139+01.71

**SITE PLAN**  
 BRIDGE NO. SCI-823-0248 L  
 S.R. 823 OVER S.R. 335 & LITTLE SCIO TO RIVER

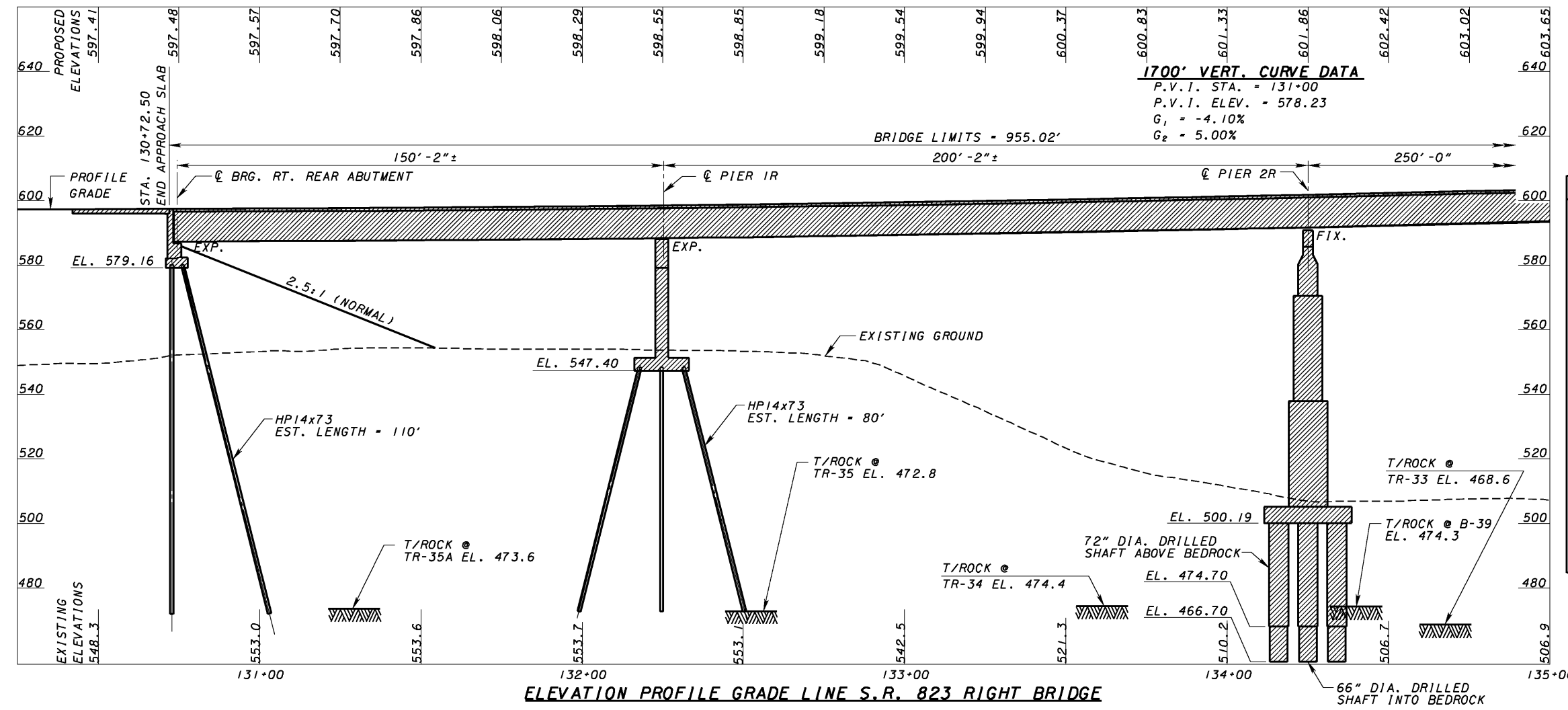
SCI-823-0-00  
 PID 77366

2 / 15  
 836  
 847

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PLAN



ELEVATION PROFILE GRADE LINE S.R. 823 RIGHT BRIDGE

FIRST GUARDRAIL POST OFF BRIDGE LOCATIONS	
LOCATION	STATION
REAR ABUT. (NB)	109+95.85
FWD. ABUT. (NB)	140+66.33

BENCHMARK 1	BENCHMARK 2
(TO BE PROVIDED LATER)	(TO BE PROVIDED LATER)

TRAFFIC DATA	
S.R. 823	
CURRENT YEAR ADT (2010) - 21,200	
DESIGN YEAR ADT (2030) - 31,200	
CURRENT YEAR ADTT (2010) - 2,970	
DESIGN YEAR ADTT (2030) - 4,370	

- 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: 5 SPAN CONTINUOUS STEEL PLATE GIRDER A709 GRADE 50W, DOG LEGGED AT SPLICES, WITH COMPOSITE REINFORCED CONCRETE DECK ON STUB ABUTMENTS AND T-TYPE PIERS

SPANS: 150'-2"±, 200'-2"±, 250'-0", 199'-10"±, 149'-10"± C/C BEARINGS (MEASURED ALONG C/C CONST. S.R. 823)

ROADWAY: 2 - 41'-11" TOE TO TOE PARAPETS

LOADING: HS-25 (CASE 1) AND ALTERNATE MILITARY LOADING, FWS-60 PSF

SKEW: 0°00'00" WITH RESPECT TO THE REFERENCE LINE (ALSO SEE FRAMING PLAN)

SUPERELEVATION: 0.036 FT/FT ACROSS TRAVEL LANES

ALIGNMENT: Dc = 1°00'00" (TO THE RIGHT)

WEARING SURFACE: MONOLITHIC CONCRETE

APPROACH SLABS: AS-1-81 (30' LONG)

LATITUDE: 38°46'28" N

LONGITUDE: 82°51'52" W

DESIGN AGENCY: **Systems**  
 DATE: 02/21/08  
 REVIEWED: MSL  
 DRAWN: MTN  
 DESIGNED: MTN  
 SCIO TO COUNTY STA. 130+72.50  
 SCIO TO COUNTY STA. 140+27.52  
 BRIDGE NO. SCO-823-0248 R  
 S.R. 823 OVER S.R. 335 & LITTLE SCIO TO RIVER  
 PID 77366  
 3/15  
 837/847





2/21/2008 2:33:06 PM g:\c03\0064\bridge\cn\brt\07-sr-335&lt;img alt="Topographic map showing bridge construction plan with contour lines, piers, and abutments." data-bbox="50 20 950 980"/>Detailed description: This is a technical engineering plan for a bridge over the Scioto River. The drawing shows the bridge structure from station 130+00 to 135+00. Key features include: 

- Abutments:** BRG. REAR ABUT. (STA. 130+75.00) and BRG. FRONT ABUT. (STA. 130+72.50).
- Piers:** PIER 1L (STA. 132+37.92), PIER 1R (STA. 132+25.16), PIER 2L (STA. 134+41.54), and PIER 2R (STA. 134+25.28).
- Approach Slabs:** END APPROACH SLAB (STA. 130+72.50).
- Structural Elements:** Settlement platform, BTAs (BTA-2), and various TRs (TR-33, TR-34, TR-35, TR-35A).
- Grading and Elevation:** Profile grades, section lines, and limits of fill are indicated with various slopes (e.g., 2.5:1, 1'-6" PARAPET).
- Orientation:** A north arrow is located in the upper right corner.
- Property Lines:** Typical property lines are shown as dashed lines.
- Match Lines:** The right side of the plan is labeled 'MATCH LINE STATION 135+50'.

PROPERTY LINE (TYP.)

PLAN

⊙ DENOTES BORING LOCATION

SC1-823-0.00  
PID 77366

5 / 15

839  
847

GENERAL PLAN  
BRIDGE NO. SCO-823-0248 L&R  
S.R. 823 OVER S.R. 335 & LITTLE SCIOTO RIVER

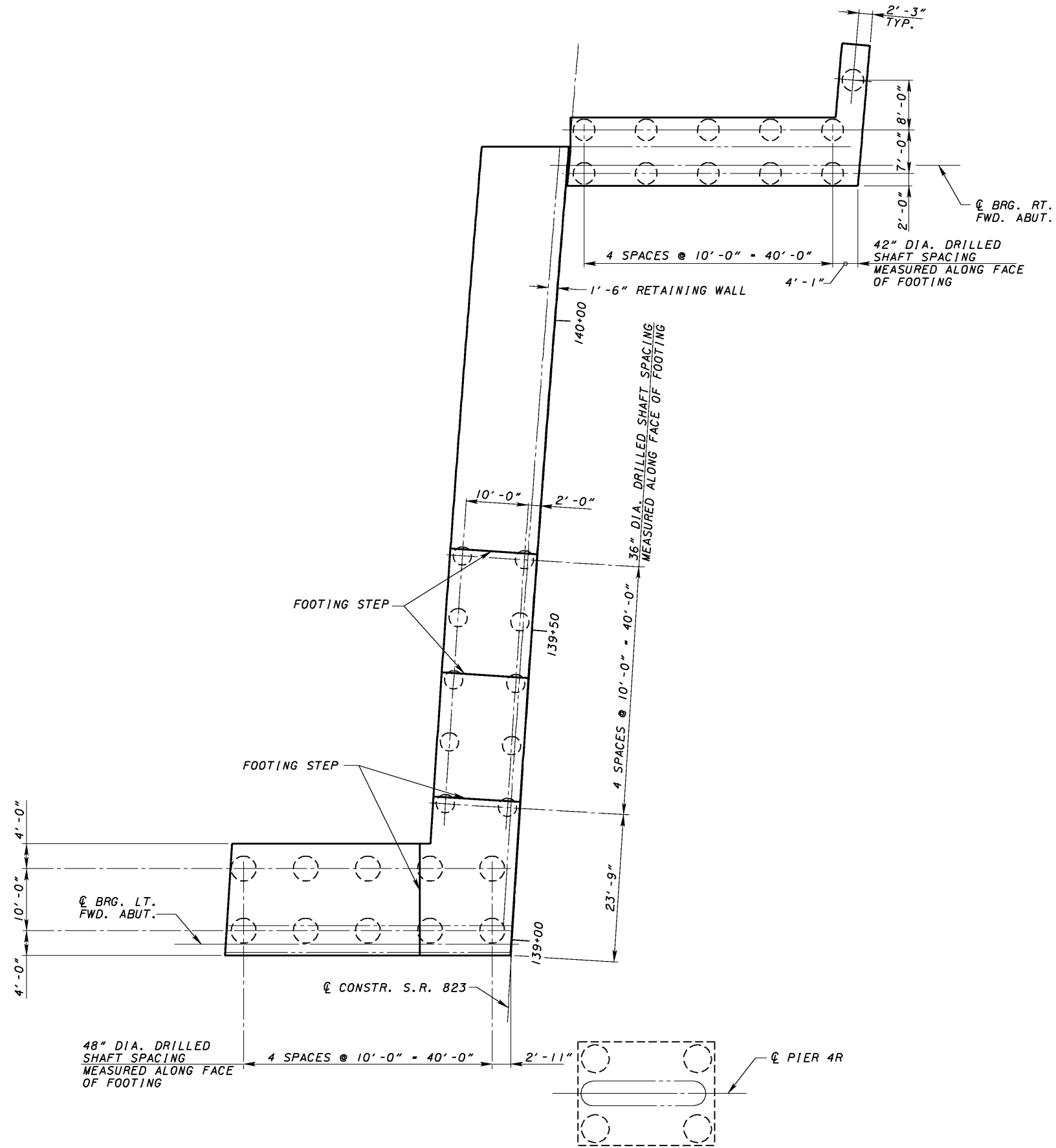
DESIGNED	DRAWN	REVIEWED	DATE
MTN	MTN	MSL	02/21/08
CHECKED	REVISED	STRUCTURE FILE NUMBER	
PJP		7306369L, 7306377R	

DESIGN AGENCY  
Systems  
5747 HERRING DRIVE, SUITE 240  
MABLETON, MISSISSIPPI 39453

MATCH LINE STATION 135+50



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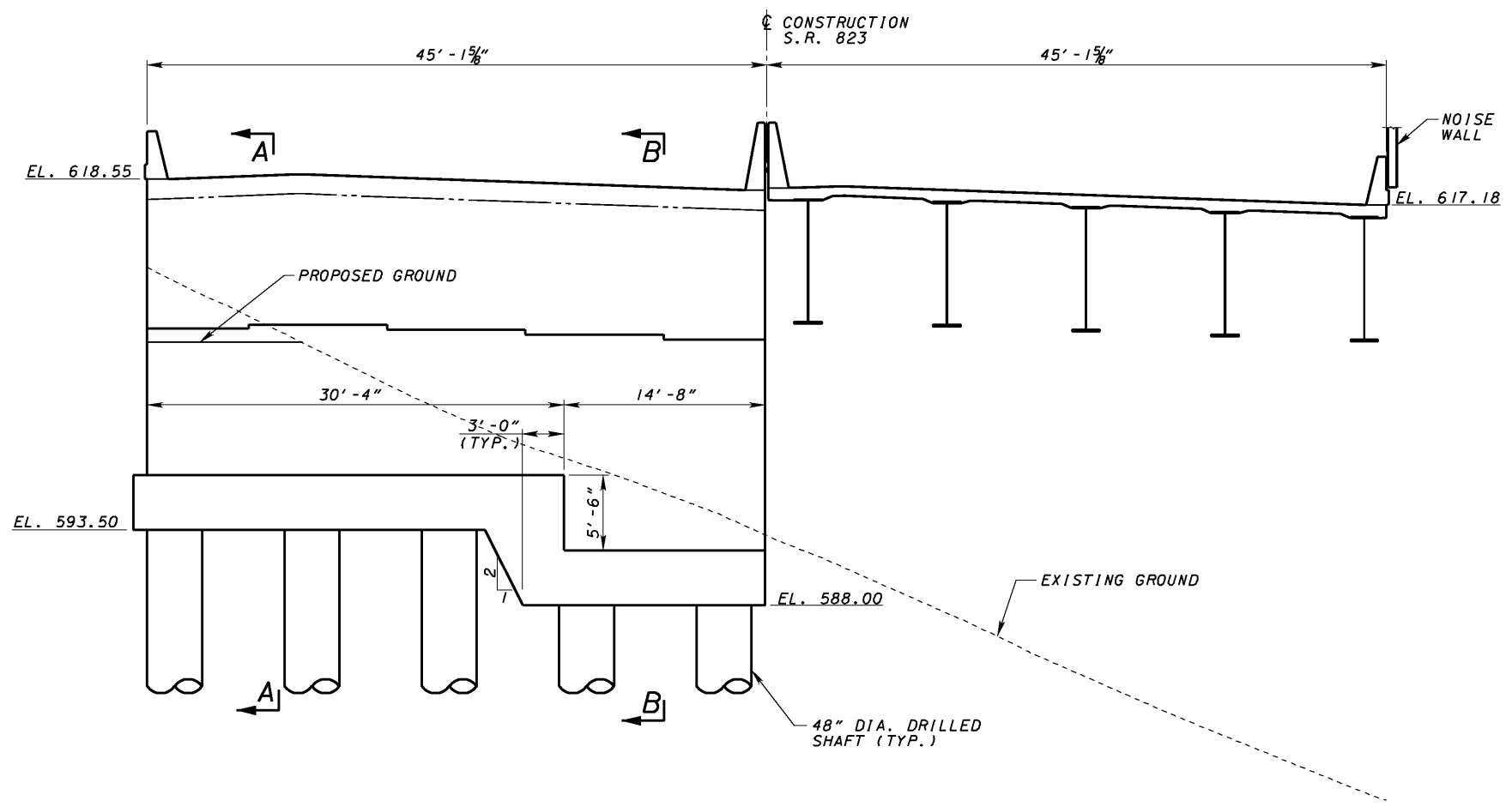
PLAN

DESIGNED	DATE
MTN	02/21/08
CHECKED	REVIEWED
PJP	MSL
	STRUCTURE FILE NUMBER
	7-306369L, 7-306377R

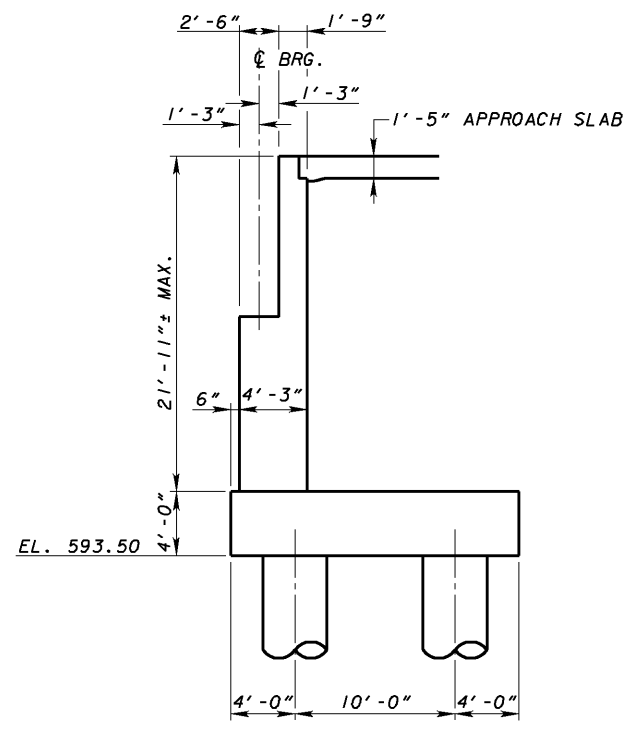
**FORWARD ABUTMENT FOUNDATION PLAN**  
 BRIDGE NO. SCI-823-0248 L&R  
 SR823 OVER SR335 & LITTLE SCIOTO RIVER

SCI-823-0.00  
 PID 77366

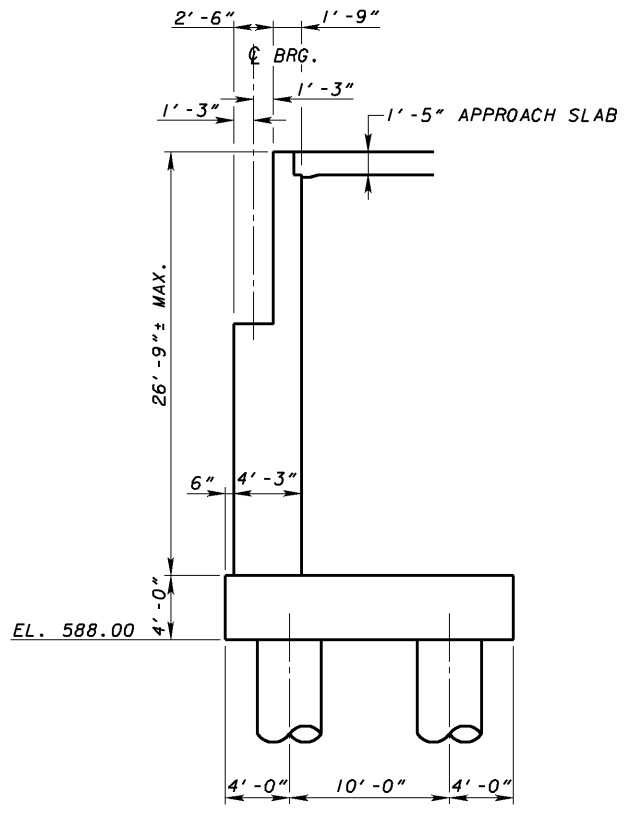
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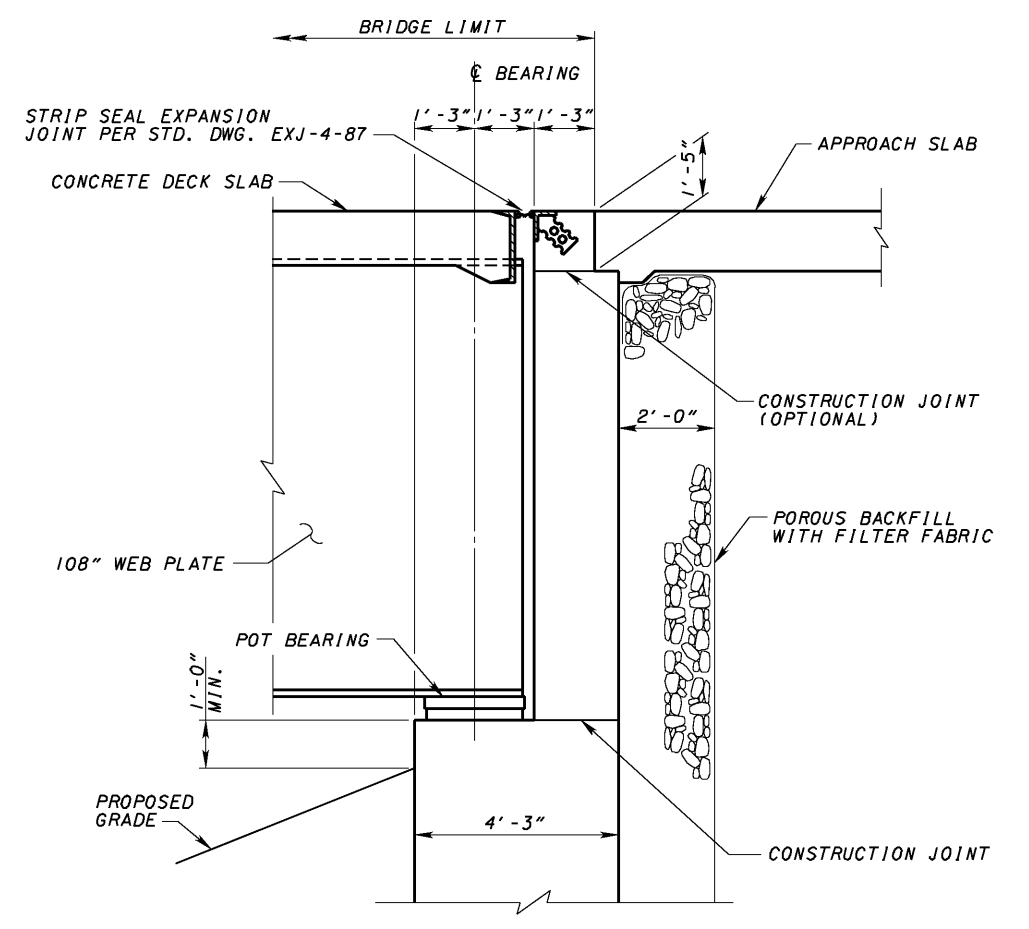
**ELEVATION**  
(ALONG FACE OF ABUTMENT)



**SECTION A-A**



**SECTION B-B**



**TYPICAL FORWARD ABUTMENT DETAIL**



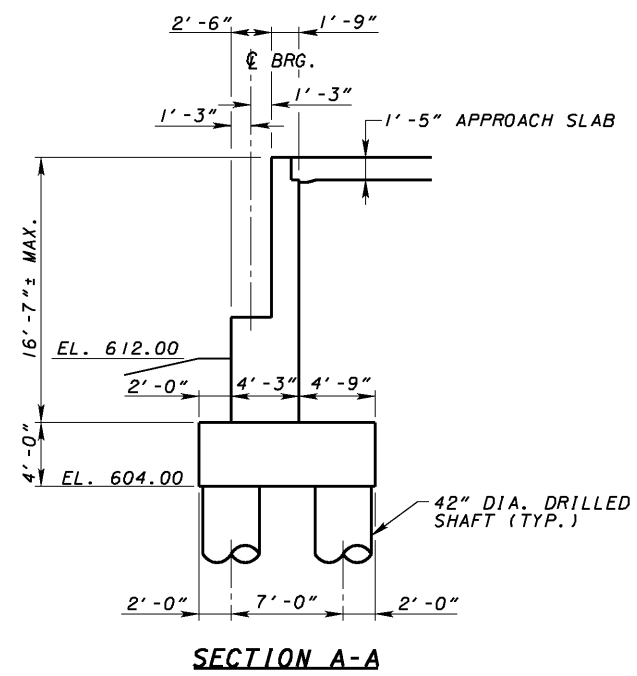
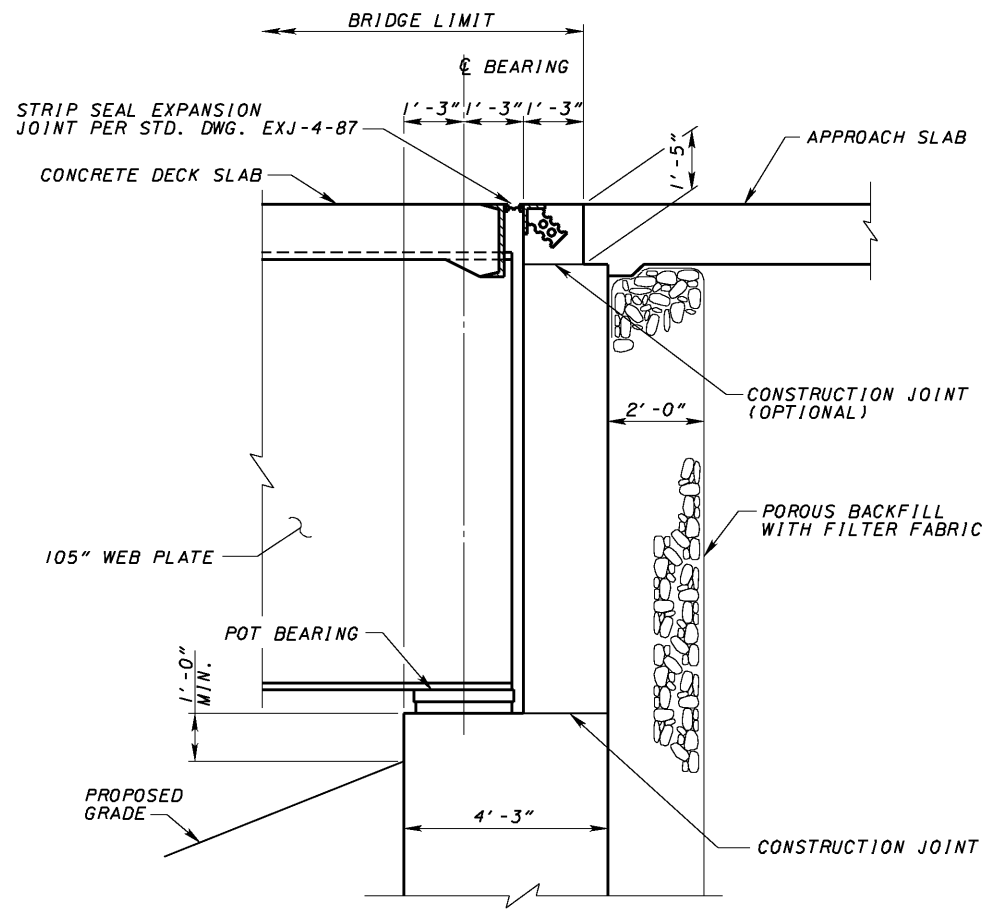
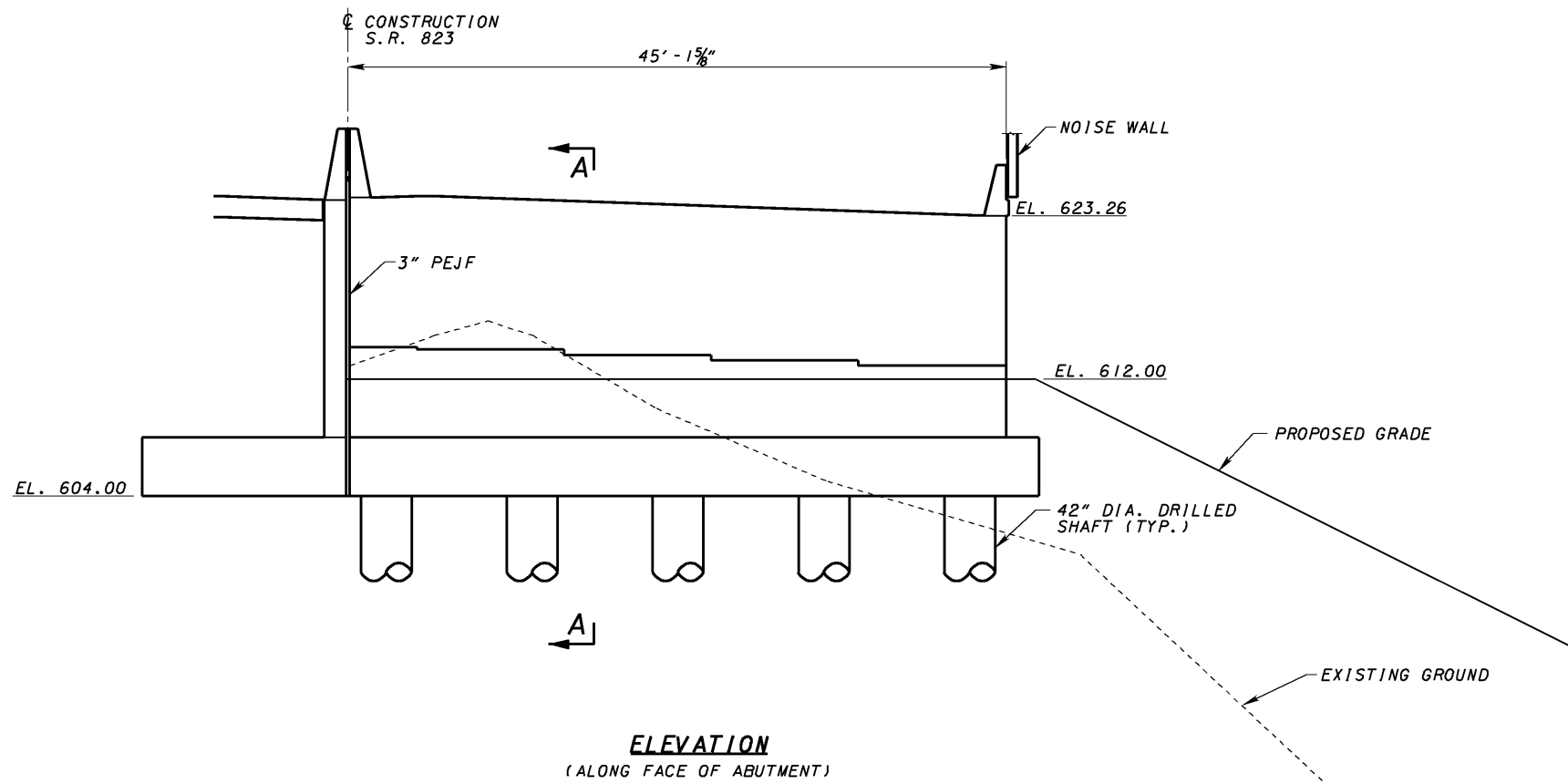
DESIGNED	MTN	CHECKED	PJP
DRAWN	JDG	REVISED	
REVIEWED	MSL	DATE	02/21/08
STRUCTURE FILE NUMBER	7-306369L, 7-306377R		

**FORWARD ABUTMENT DETAILS LEFT BRIDGE**  
BRIDGE NO. SC1-823-0248 L  
SR823 OVER SR335 & LITTLE SCIOTO RIVER

SC1-823-0.00  
PID 77366



2:33:18 PM 2/21/2008 g:\co03\0064\bridge\cn\brts\07-sr-335&lt;img alt="Engineering drawing showing the elevation and section A-A of a bridge abutment. The elevation view shows a concrete abutment with a 3-inch PEJF joint, a noise wall, and a 42-inch diameter drilled shaft. The section A-A view shows the internal structure including a 105-inch web plate, pot bearing, and porous backfill. Dimensions and elevations are provided for various components."/>



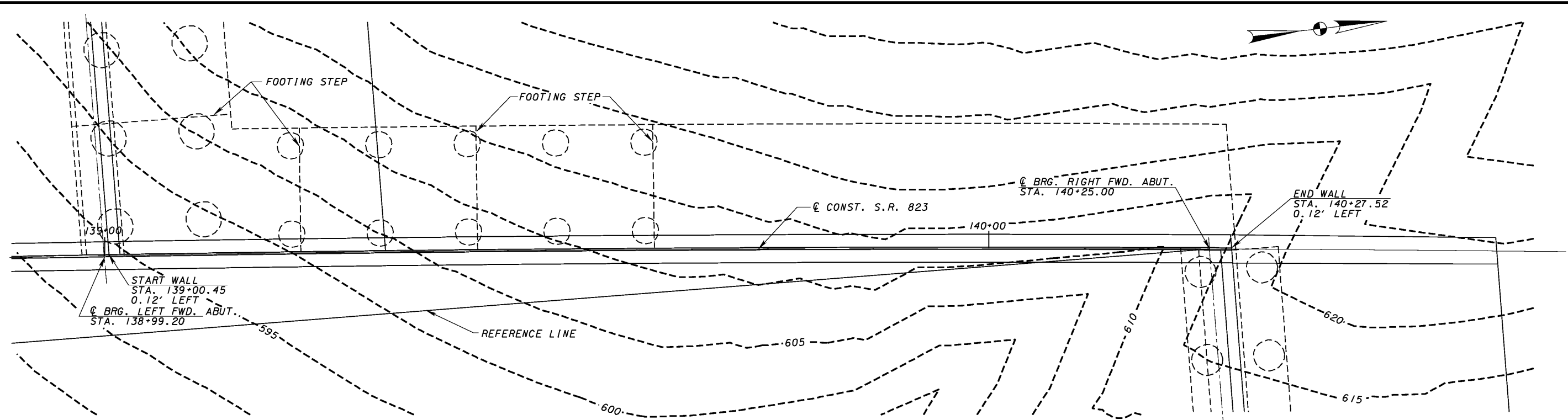
**TYPICAL FORWARD ABUTMENT DETAIL**

DESIGNED	MTN	CHECKED	PJP
DRAWN	JDG	REVISED	
REVIEWED	MSL	DATE	02/21/08
STRUCTURE FILE NUMBER		7-306369L, 7-306377R	

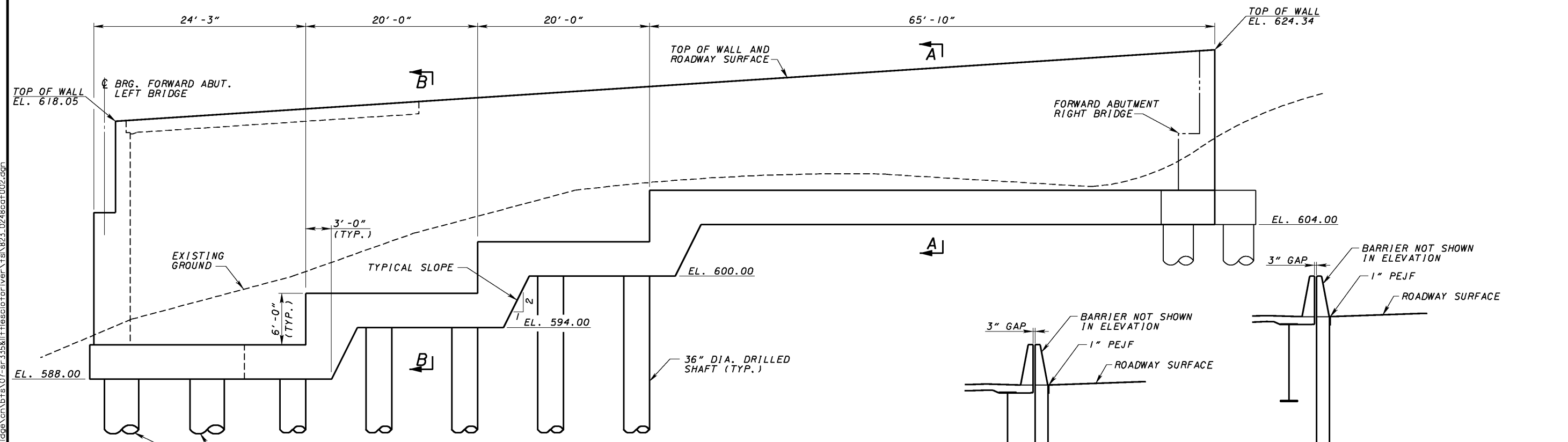
**FORWARD ABUTMENT DETAILS RIGHT BRIDGE**  
 BRIDGE NO. SCI-823-0248 R  
 SR823 OVER SR335 & LITTLE SCIOTO RIVER

SCI-823-0.00  
 PID 77366

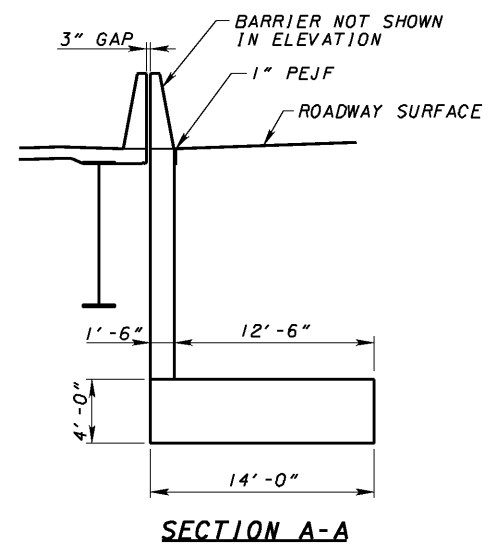
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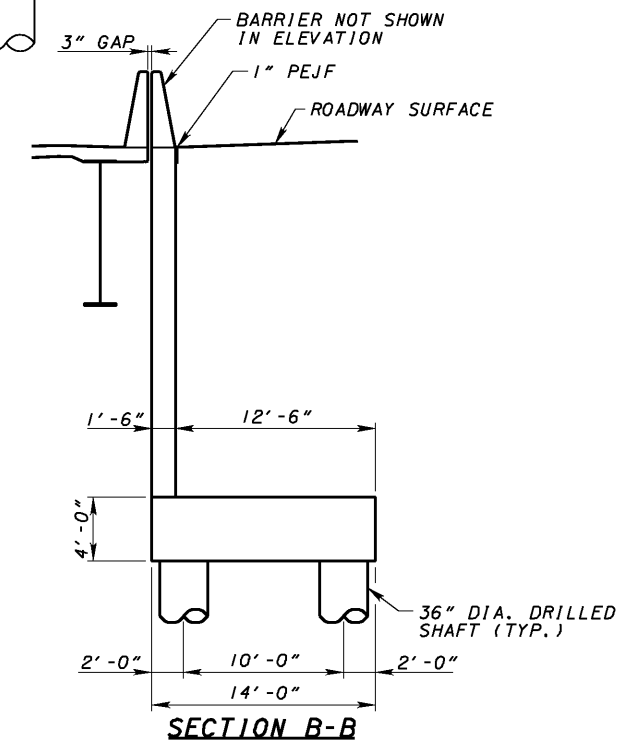
PLAN



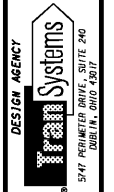
ELEVATION  
(BARRIER ON WALL NOT SHOWN)



SECTION A-A



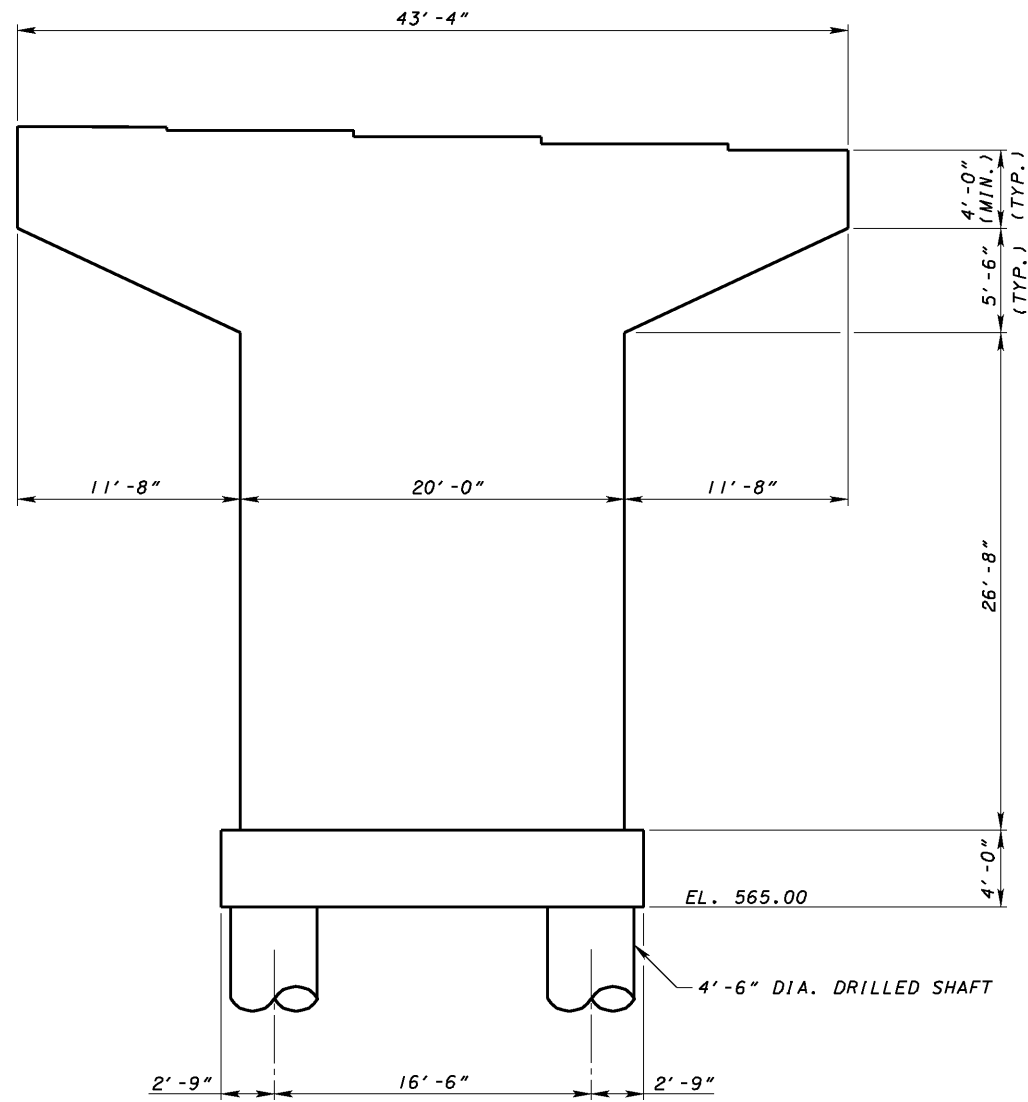
SECTION B-B



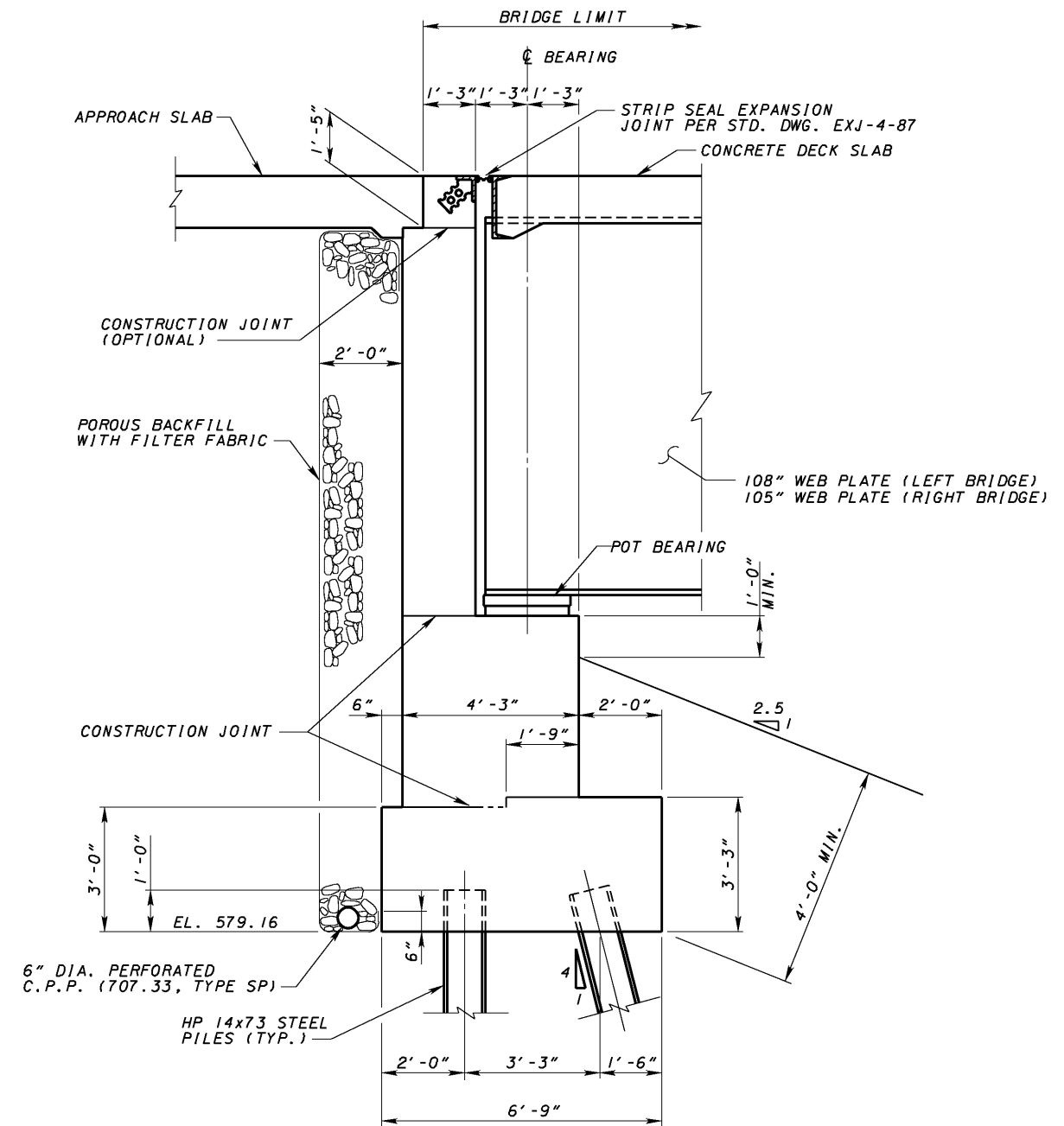
DESIGNED	JDG	CHECKED	PJP
DRAWN	MTN	REVISED	
REVIEWED	MSL	DATE	02/21/08
STRUCTURE FILE NUMBER	7-306369L, 7-306371R		

FWD. ABUT. RETAINING WALL DETAILS  
BRIDGE NO. SCI-823-0248 L  
SR823 OVER SR335 & LITTLE SCIOTO RIVER

SCI-823-0.00  
PID 77366



**ELEVATION**  
PIER 4R  
STA. 138+75.16



**REAR ABUTMENT SECTION**

**NOTES:**

1. WICK DRAINS AND SETTLEMENT MONITORING ARE REQUIRED FOR THE PROPOSED EMBANKMENT CONSTRUCTION. SEE WICK DRAIN AND INSTRUMENTATION PLANS FOR MORE DETAILS.
2. CONSTRUCTION CONSTRAINTS: PRIOR TO CONSTRUCTING THE PROPOSED 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. CONSTRUCTION OF THE PIER AND ABUTMENT FOUNDATIONS CAN PROCEED AFTER THE GEOTECHNICAL DESIGN COORDINATOR HAS DETERMINED THAT 99% CONSOLIDATION HAS BEEN REACHED. THE ESTIMATED TIME TO 99% CONSOLIDATION DEPENDS UPON THE WICK DRAIN SPACING SELECTED TO CONSTRUCT THE EMBANKMENT. 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.
3. ITEM 203 EMBANKMENT, AS PER PLAN: PLACE AND COMPACT EMBANKMENT MATERIAL IN 6 INCH LIFTS FOR THE CONSTRUCTION OF THE APPROACH EMBANKMENT BETWEEN STATIONS 129+75 TO 132+00.

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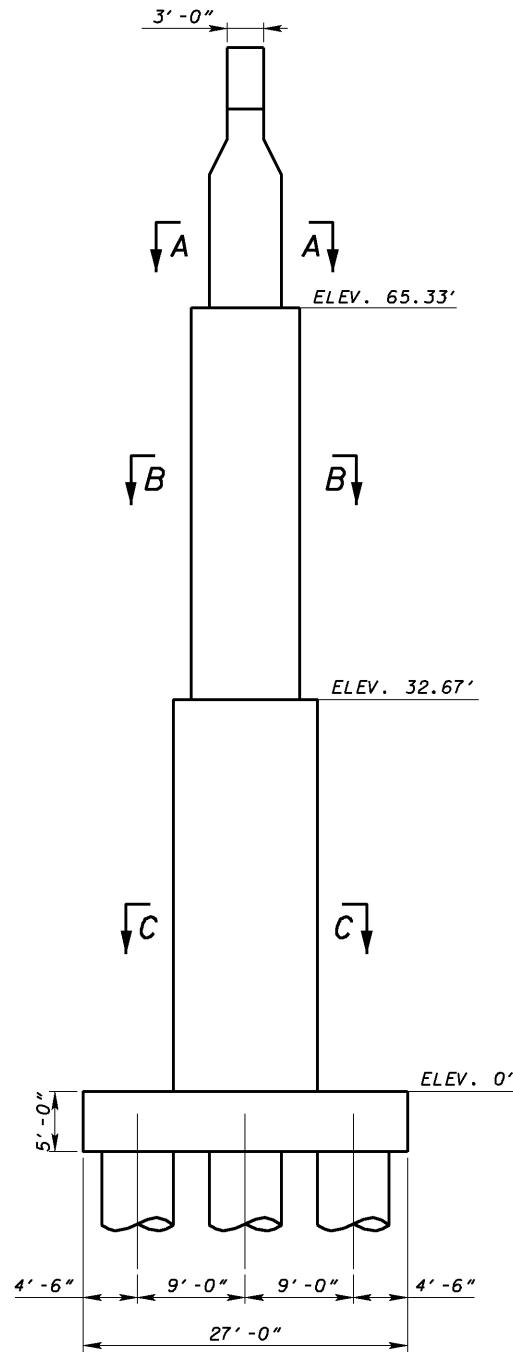
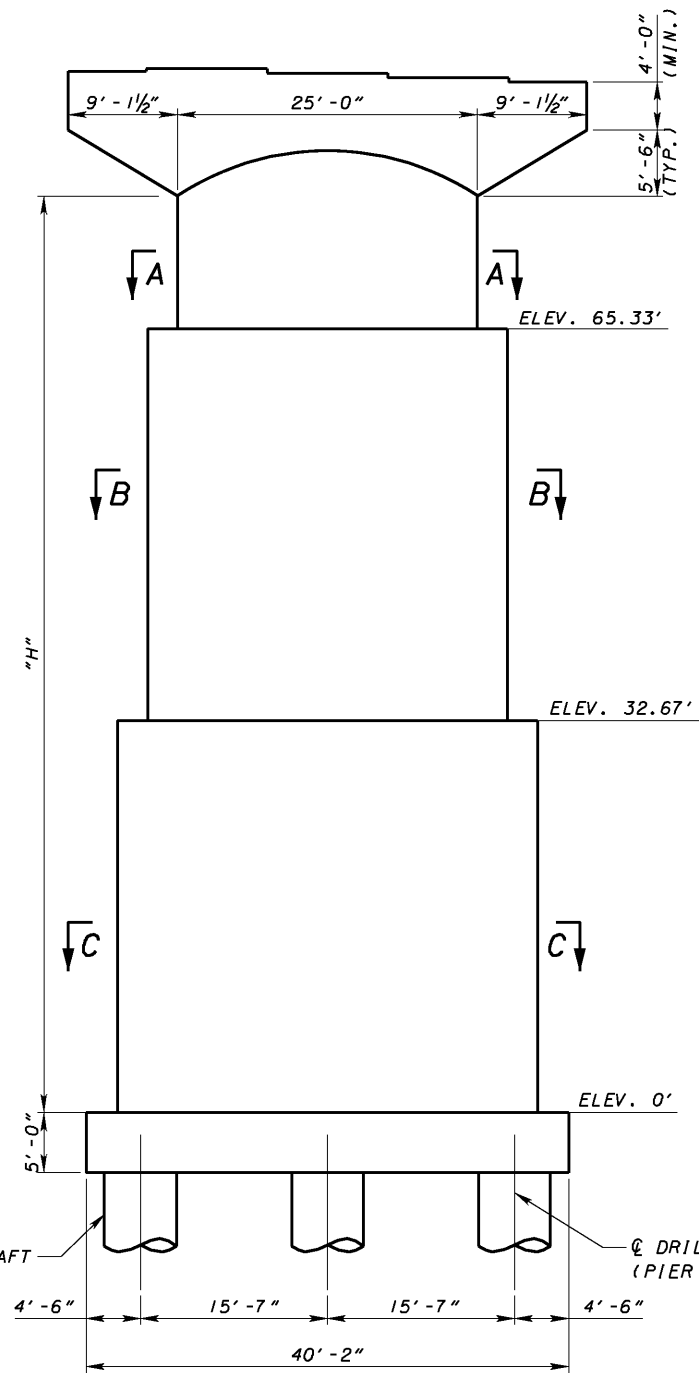
DESIGNED	MSL	CHECKED	PJP
DRAWN	MTN	REVISED	
REVIEWED	MSL	DATE	02/21/08
		STRUCTURE FILE NUMBER	7-306369L, 7-306377R

**REAR ABUTMENT AND PIER 4R DETAILS**  
BRIDGE NO. SCI-823-0248 L&R  
S.R. 823 OVER S.R. 335 & LITTLE SCIOTO RIVER

SCI-823-0.00  
PID 77366

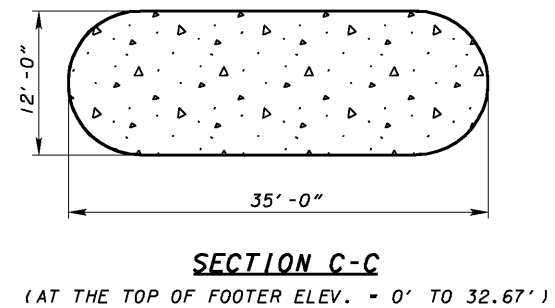
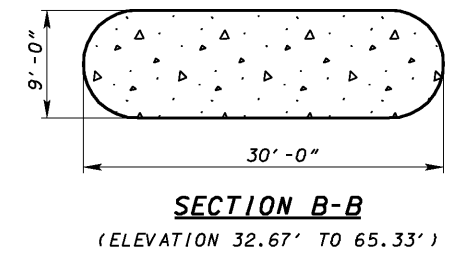
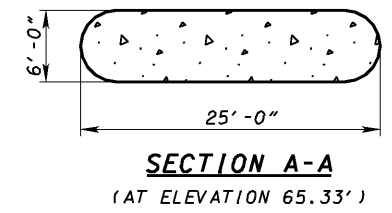
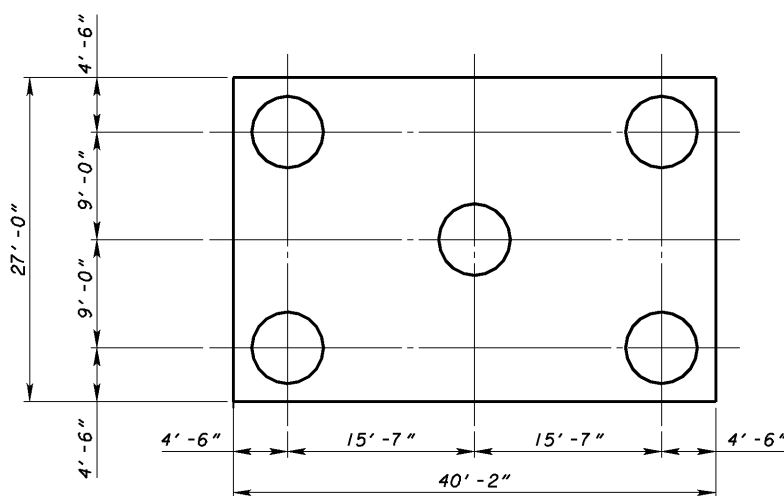
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PIER	"H"
2L	76'-5"
2R	75'-3"
3L	80'-1"
3R	82'-7"



6'-0" DIA. DRILLED SHAFT (PIERS 2 & 3 ONLY)

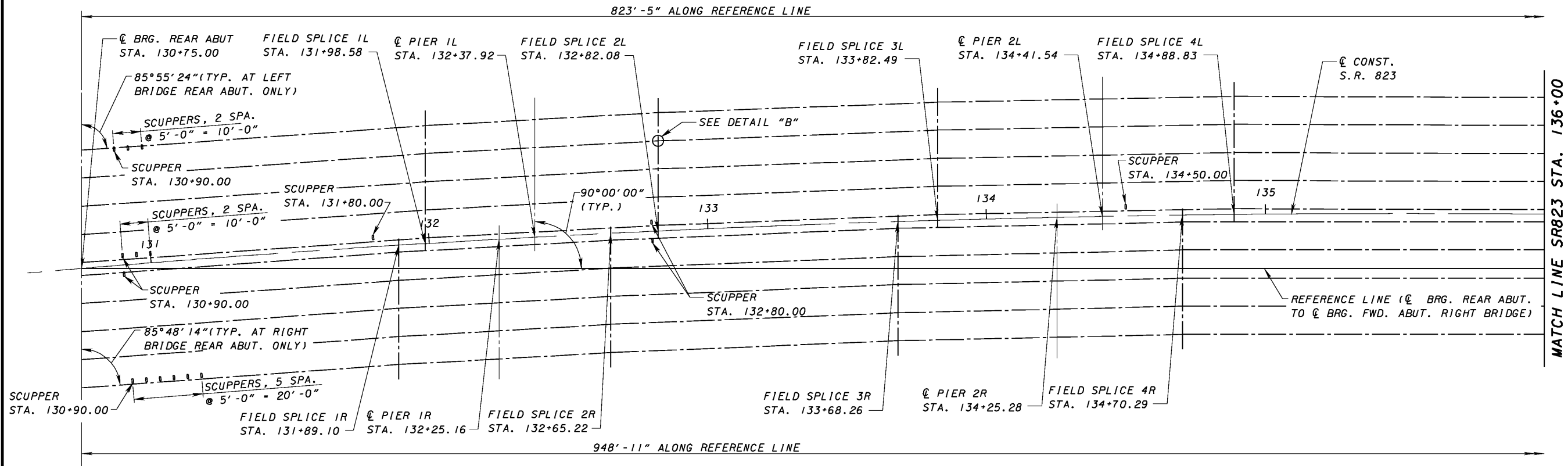
Ø DRILLED SHAFT (PIER 2 & 3 ONLY)







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**LEFT (SOUTHBOUND) BRIDGE**

LOCATION	STATION	θ
☉ BRG. R. ABUT.	STA. 130+75.00	N/A
SPLICE 1	STA. 131+98.58	0.898°
☉ PIER 1	STA. 132+37.92	N/A
SPLICE 2	STA. 132+82.08	1.000°
SPLICE 3	STA. 133+82.49	1.037°
☉ PIER 2	STA. 134+41.54	N/A
SPLICE 4	STA. 134+88.83	1.288°
SPLICE 5	STA. 136+40.49	1.320°
☉ PIER 3	STA. 136+96.02	N/A
SPLICE 6	STA. 137+52.76	1.294°
☉ BRG. FWD. ABUT.	STA. 138+99.20	N/A

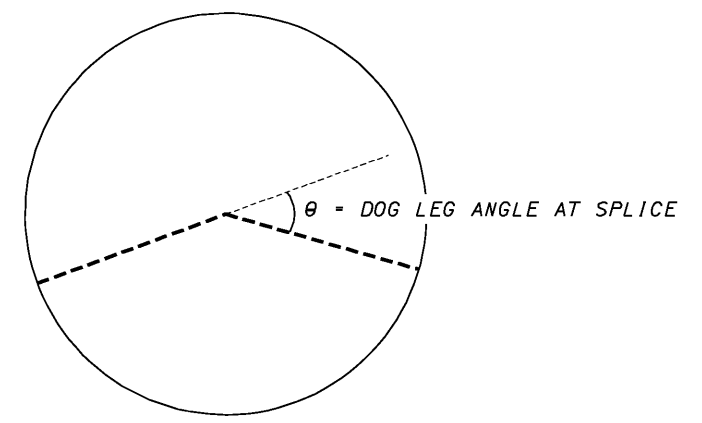
FROM	TO	GIRDER LENGTH	GIRDER SPACING*
☉ BRG. R. ABUT.	SPLICE 1	123.57'	4 SPACES @ 10'-0 <sup>5</sup> / <sub>16</sub> " ± = 40.2192'
SPLICE 1	SPLICE 2	83.50'	4 SPACES @ 10'-0 <sup>3</sup> / <sub>4</sub> " ± = 40.2592'
SPLICE 2	SPLICE 3	100.41'	4 SPACES @ 10'-0 <sup>7</sup> / <sub>16</sub> " ± = 40.2921'
SPLICE 3	SPLICE 4	106.34'	4 SPACES @ 10'-0 <sup>5</sup> / <sub>16</sub> " ± = 40.3132'
SPLICE 4	SPLICE 5	151.66'	4 SPACES @ 10'-0 <sup>9</sup> / <sub>16</sub> " ± = 40.3211'
SPLICE 5	SPLICE 6	112.26'	4 SPACES @ 10'-0 <sup>7</sup> / <sub>16</sub> " ± = 40.3080'
SPLICE 6	☉ BRG. FWD. ABUT.	146.44'	4 SPACES @ 10'-0 <sup>3</sup> / <sub>16</sub> " ± = 40.2745'

\* GIRDER SPACINGS ARE NORMAL TO GIRDER CENTERLINE

**RIGHT (NORTHBOUND) BRIDGE**

LOCATION	STATION	θ
☉ BRG. R. ABUT.	STA. 130+75.00	N/A
SPLICE 1	STA. 131+89.10	0.955°
☉ PIER 1	STA. 132+25.16	N/A
SPLICE 2	STA. 132+65.22	0.899°
SPLICE 3	STA. 133+68.26	1.029°
☉ PIER 2	STA. 134+25.28	N/A
SPLICE 4	STA. 134+70.29	1.315°
SPLICE 5	STA. 136+30.28	1.315°
☉ PIER 3	STA. 136+75.28	N/A
SPLICE 6	STA. 137+32.30	1.043°
SPLICE 7	STA. 138+38.11	0.893°
☉ PIER 4	STA. 138+75.16	N/A
SPLICE 8	STA. 139+10.23	0.508°
☉ BRG. FWD. ABUT.	STA. 140+25.00	N/A

FROM	TO	GIRDER LENGTH	GIRDER SPACING*
☉ BRG. R. ABUT.	SPLICE 1	114.10'	4 SPACES @ 10'-0 <sup>5</sup> / <sub>16</sub> " ± = 40.2083'
SPLICE 1	SPLICE 2	76.12'	4 SPACES @ 10'-0 <sup>3</sup> / <sub>4</sub> " ± = 40.2519'
SPLICE 2	SPLICE 3	103.04'	4 SPACES @ 10'-0 <sup>7</sup> / <sub>16</sub> " ± = 40.2827'
SPLICE 3	SPLICE 4	102.03'	4 SPACES @ 10'-0 <sup>9</sup> / <sub>16</sub> " ± = 40.3058'
SPLICE 4	SPLICE 5	159.98'	4 SPACES @ 10'-0 <sup>5</sup> / <sub>16</sub> " ± = 40.3164'
SPLICE 5	SPLICE 6	102.03'	4 SPACES @ 10'-0 <sup>7</sup> / <sub>16</sub> " ± = 40.3057'
SPLICE 6	SPLICE 7	105.81'	4 SPACES @ 10'-0 <sup>7</sup> / <sub>16</sub> " ± = 40.2822'
SPLICE 7	SPLICE 8	72.12'	4 SPACES @ 10'-0 <sup>3</sup> / <sub>4</sub> " ± = 40.2514'
SPLICE 8	☉ BRG. FWD. ABUT.	114.72'	4 SPACES @ 10'-0 <sup>1</sup> / <sub>16</sub> " ± = 40.2295'



**DETAIL "B"**

