



A unit of American Electric Power

AEP Ohio
850 Tech Center Drive
Gahanna, OH 43230
AEPohio.com

January 22, 2007

Trans Systems
Mike Weeks
5747 Perimeter Drive
Suite 240
Dublin, Ohio 43017

Dear Mr. Weeks,

I have reviewed plans "SCI-823-6.81 Phase 1." All pole highlighted in yellow are owned or contacted by American Electric Power. We have a great deal of conflict with this project. Each crossing of a road will mean the need for our lines to be relocated or removed. Many of these lines are radial, which means our new lines will need to be constructed and energized before we can remove the old lines. For your records, I have enclosed a set of our facilities maps showing the approximate location of our distribution facilities in the area of your project. On our facility maps I have marked with highlighter the approximate crossing of the new SR 823 and our distribution facilities. Our backlog for design for this area is 3-6 months and the amount of conflict with this project makes it imperative that we receive stage two plans as soon as possible so that we may attempt to meet ODOT 9's time line. Please submit a full set of stage two plans with electronic file of plan & profile so that we may start the process of relocation.

During my review, I saw no underground distribution cable in the area of this project at this time. Therefore, I don't feel we have any conflict with our underground facilities in the area of your project.

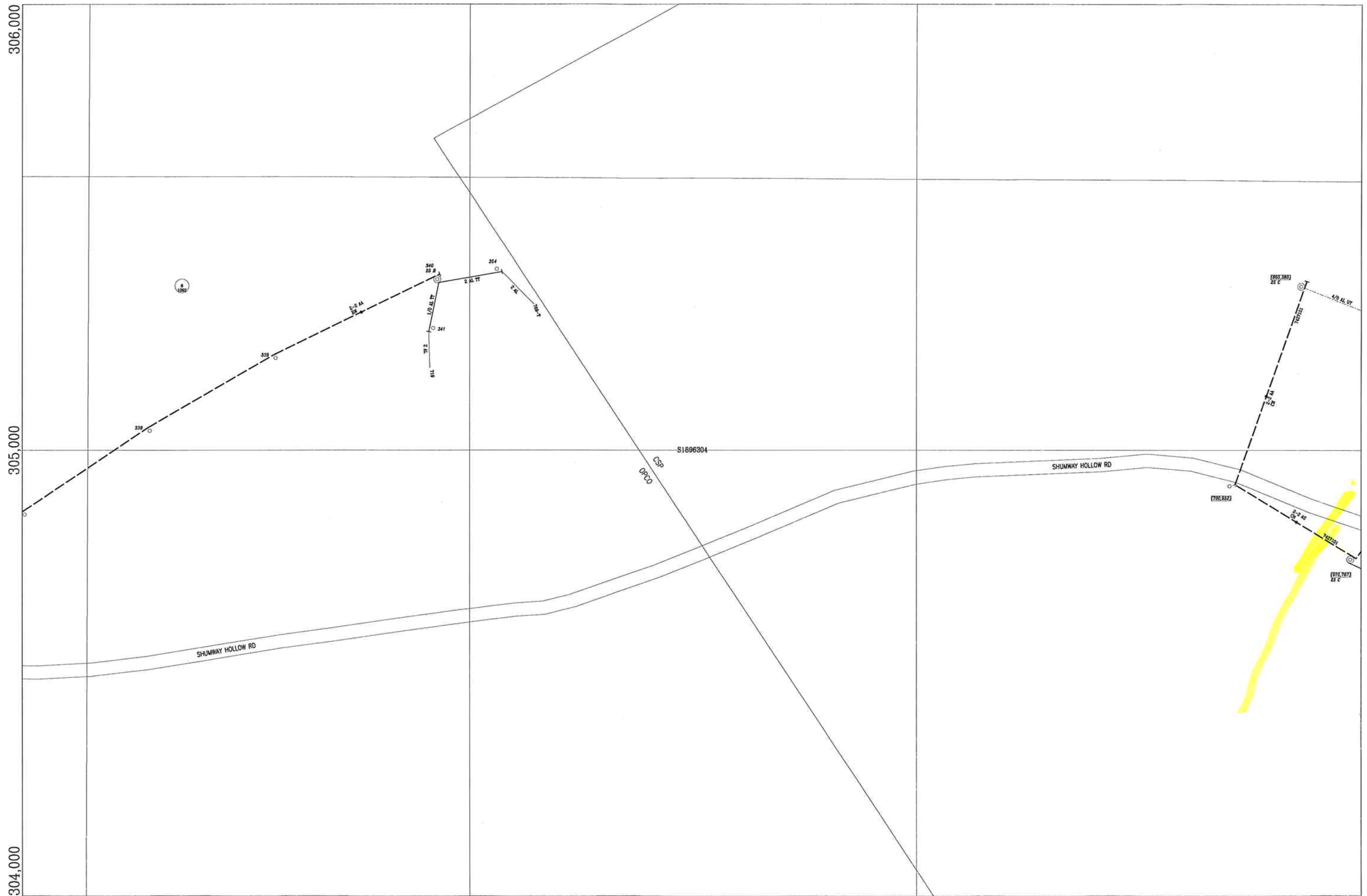
If you have any further questions pertaining to this project please contact me at 614-883-6829.

Sincerely,

A handwritten signature in blue ink, appearing to read "Rick Eckle".

Rick Eckle
Distribution Public Project Coordinator

Cc: Randy Wilson, ODOT 9
Lee Griffith, AEP Chillicothe Engineering
File



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COLUMBUS SOUTHERN POWER CO.
 REGION: AEP OHIO DISTRICT:

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 TO BE PERFORMED, THE EXCAVATOR MUST CONTACT THE UTILITY ONE-CALL SYSTEM IN
 THE LOCALE WHERE THE WORK IS TO BE PERFORMED.

LAST REVISED: 06/13/2000
 LAST PLOTTED:

SCALE: 1"= 100'
 CPR MAP NAME: S1896304

Interior Moves
Exterior Moves
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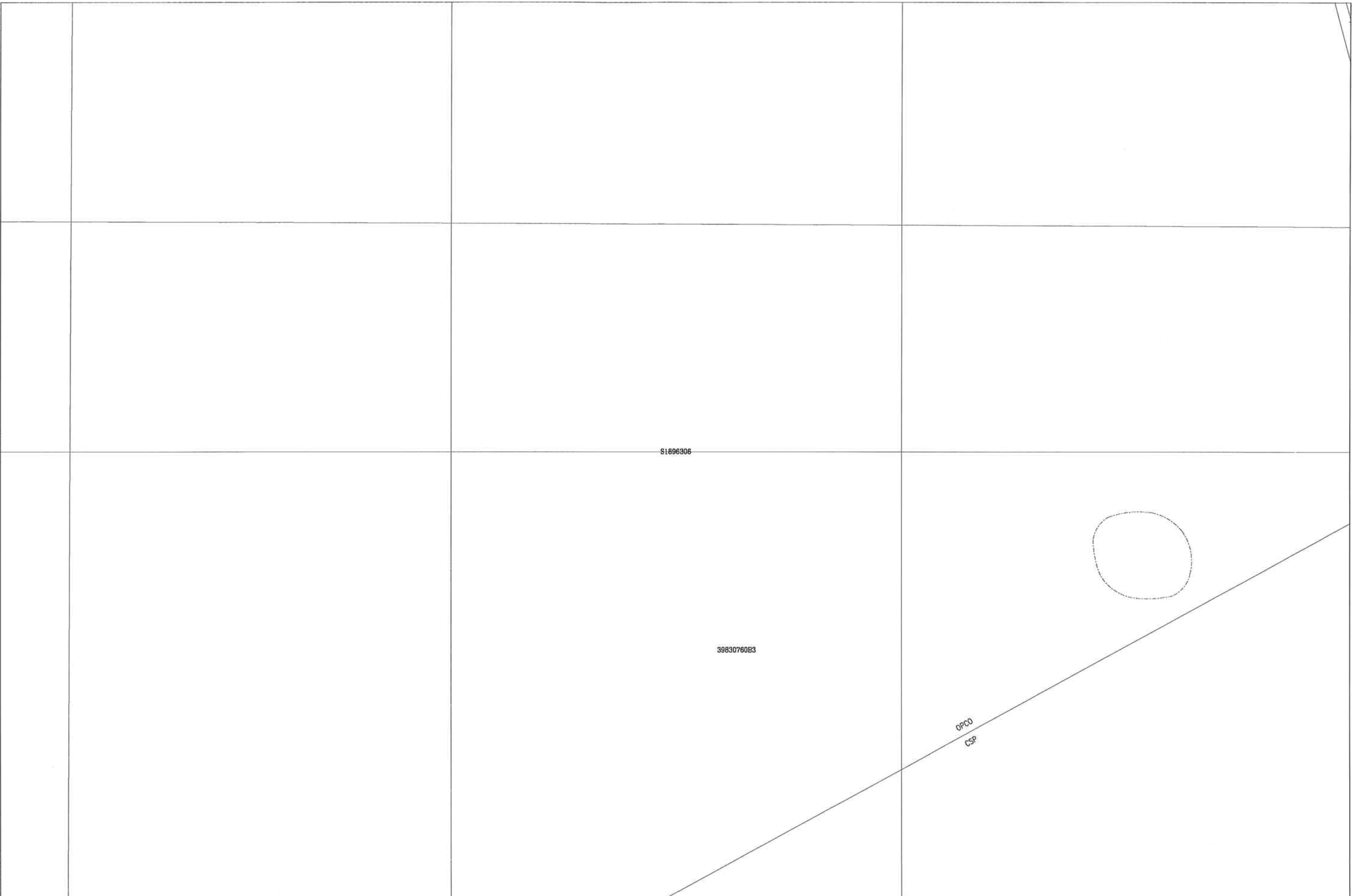
COLUMBUS SOUTHERN POWER CO.
REGION: AEP OHIO DISTRICT:

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LAST REVISED: 06/13/2000
LAST PLOTTED:

SCALE: 1" = 100'
CPR MAP NAME: S1899304

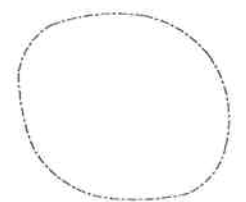
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S1896306

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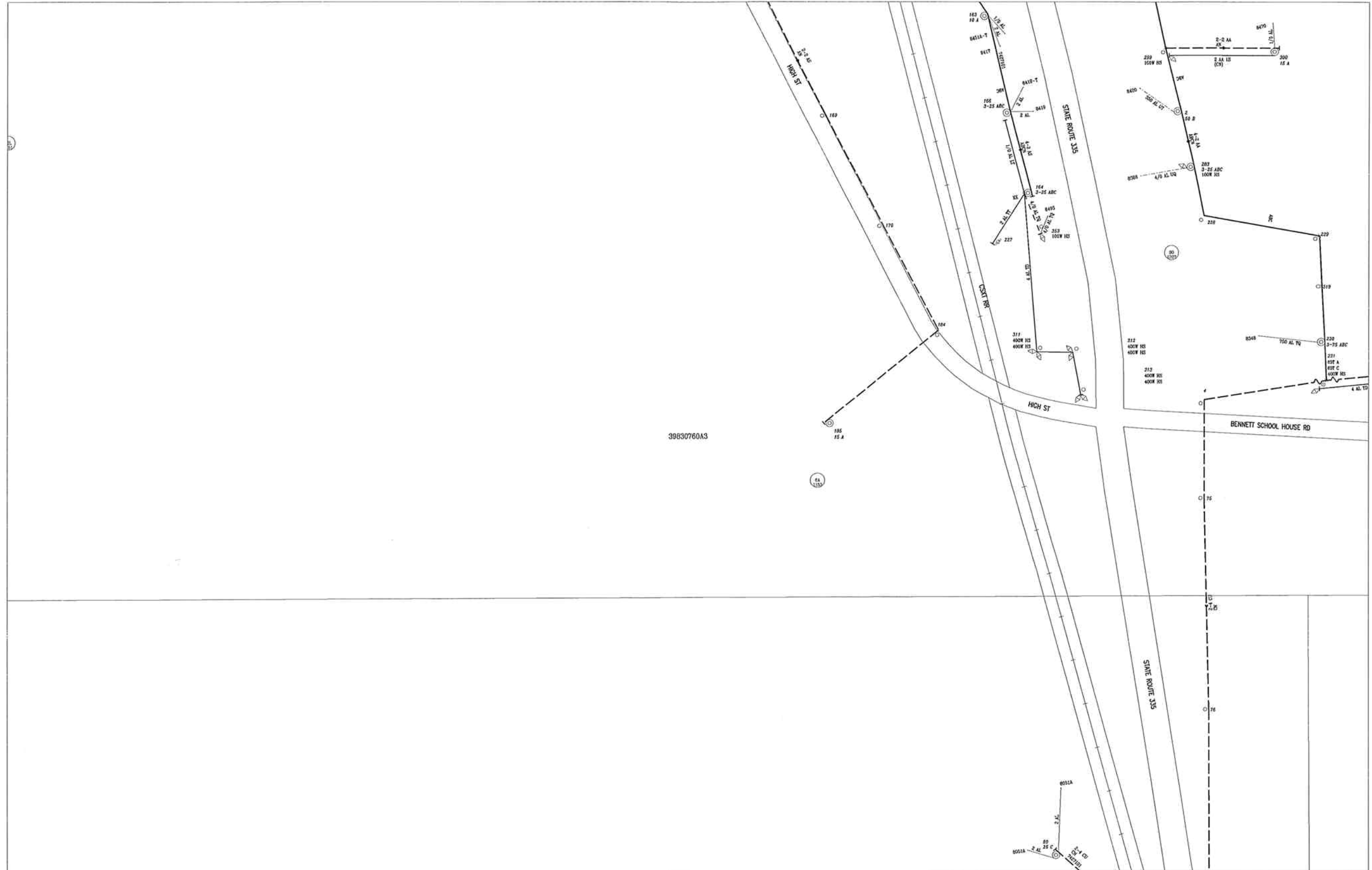
LAST REVISED: 06/13/2000
LAST PLOTTED:

SCALE: 1"= 100'
CPR MAP NAME: S1896306

39830736B4

39830760A1

39830760C1



39830760A3

39830760A4



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LAST REVISED: 01/01/1900
 LAST PLOTTED:
 Last Pole Number: 359

Ohio Power
 SCALE 1"=100'
 PLOT NAME: 39830760A3
 MAP BORDER NAME: 39830760

39830760A2



39830759D3

39830760B3

39830760B2



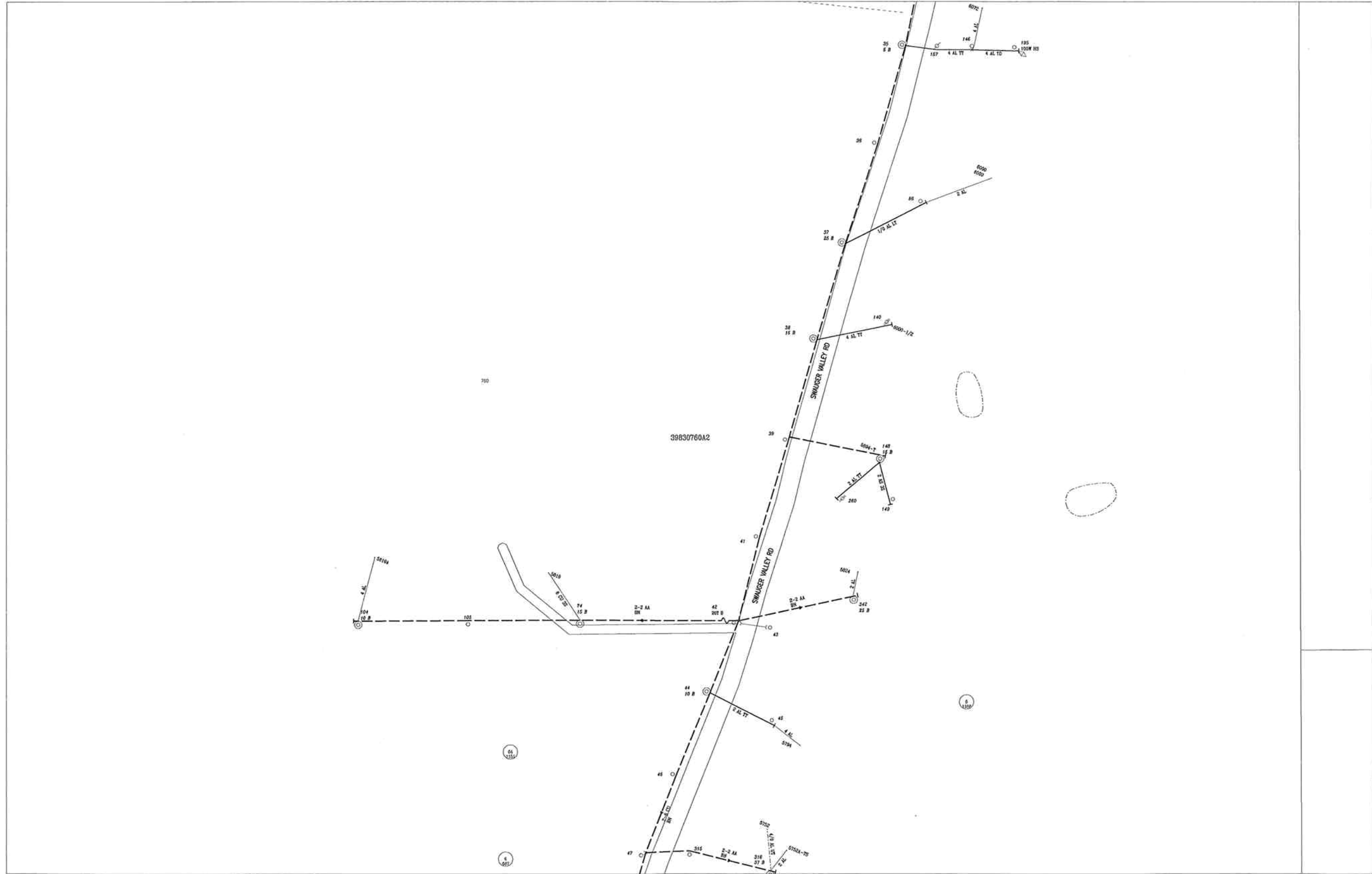
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LAST REVISED: 01/01/1900
 LAST PLOTTED:
 Last Pole Number: 359

Ohio Power
 SCALE 1"=100'
 PLOT NAME: 39830760B1
 MAP BORDER NAME: 39830760

39830760A1



39830760B1



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LAST REVISED: 01/01/1900
 LAST PLOTTED:
 Last Pole Number: 359

Ohio Power
 SCALE 1"=100'
 PLOT NAME: 39830760A2
 MAP BORDER NAME: 39830760

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 2 : A3
 4 : A3
 6-14 : C1
 21 : C1
 22-24 : A1
 25-29 : A2
 41-47 : A2
 48-51 : B1
 53-59 : B1
 74 : A2
 75-76 : A3
 78-79 : A4
 80 : A3
 81-82 : A4
 83 : C3
 84-85 : A4
 86 : A2
 81-86 : C3
 89-101 : B1
 102 : C1
 104-105 : A2
 106-112 : C4
 113 : B1
 115-117 : A4
 118-121 : D6
 122 : B1
 124 : C1
 125-126 : D6
 127-129 : C4
 130-133 : D6
 140 : A2
 141-144 : C4
 148 : A2
 147 : B1
 148-149 : A2
 150-151 : C4
 153-154 : C4
 156 : A4
 157 : A2
 158 : D6
 159 : C4
 163-164 : A3
 166 : A2
 168-170 : A3
 172 : A1
 173 : A1
 178 : A4
 184-185 : A3
 191-192 : B4
 195 : A2
 198-201 : C1
 211 : D6
 212 : C4
 218-220 : B1
 222 : B1
 223-224 : C4
 227-231 : A3
 231-234 : B1
 241 : D6
 242-245 : C4
 247 : D6
 250-251 : B1
 254 : C1
 257 : A1
 261 : A2
 263-264 : B4
 265 : A2
 268 : C4
 269-273 : B1
 272-275 : B1
 276 : C4
 277-279 : B6
 280 : C1
 283 : A3
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 301 : C3
 303 : C1
 304-305 : B6
 311-312 : A3
 314 : B1
 315 : A2
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 317-318 : B6
 318 : A3
 320-321 : A1
 322 : B6
 323 : A1
 324-325 : C4
 328 : A1
 329-329 : B1
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 332-341 : B4
 342 : A2
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 344-345 : B4
 348 : A1
 347-348 : D6
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39830736B2

39830759C3

39830760A3



39830760A2



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LAST REVISED: 01/01/1900
 LAST PLOTTED:
 Last Pole Number: 359

Ohio Power
 SCALE 1"=100'
 PLOT NAME: 39830760A1
 MAP BORDER NAME: 39830760

39830759C3

39830759C2

39830760A2

39830759C4

39830759D3



REGION: AEP OHIO

DISTRICT:

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LAST REVISED: 01/01/1900

LAST PLOTTED:

Last Pole Number: 464

Ohio Power

SCALE 1":100'

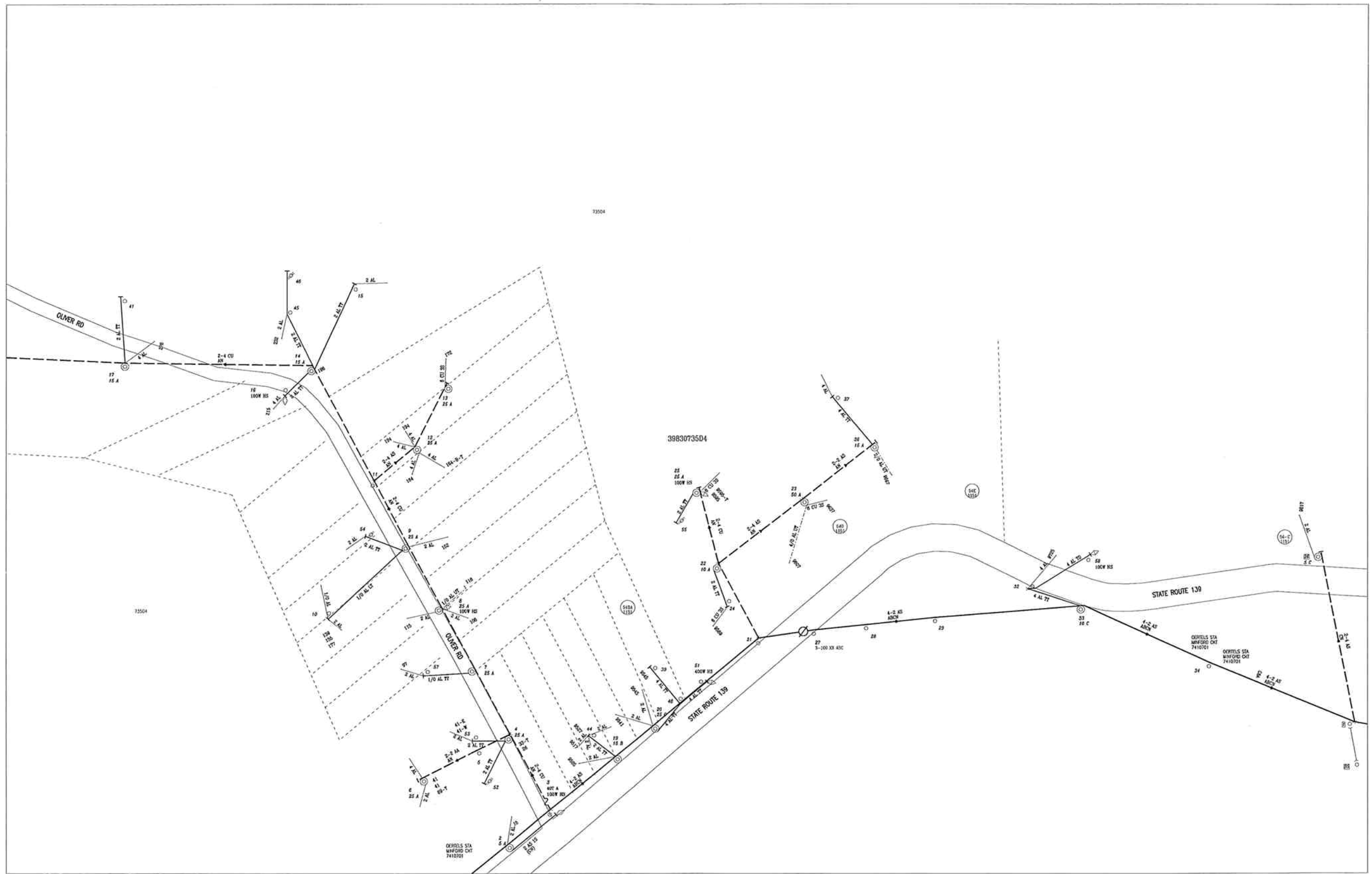
PLOT NAME: 39830759C4

MAP BORDER NAME: 39830759

39830735D3

39830735D2

39830736B2



39830759C3



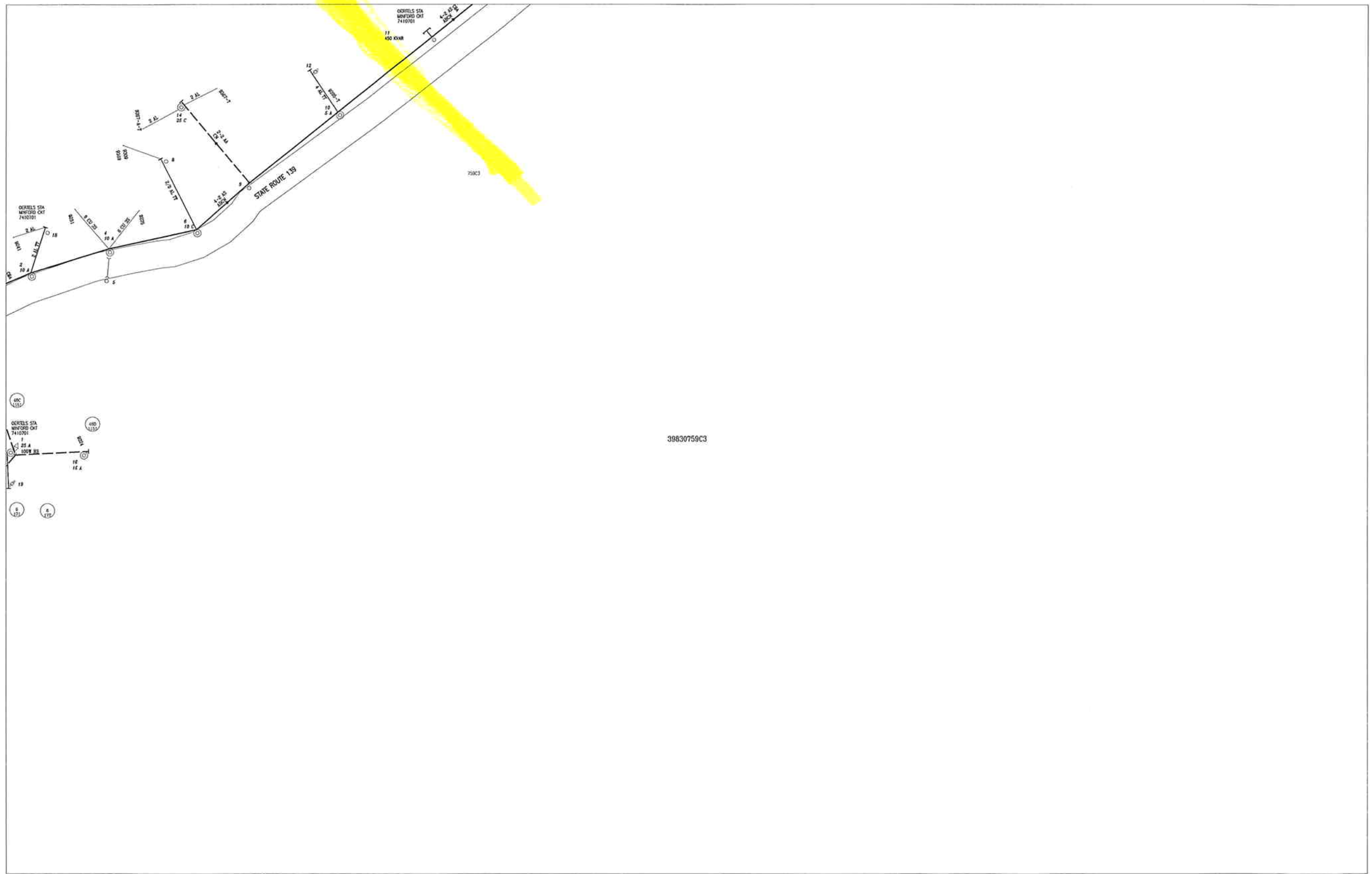
REGION: AEP OHIO DISTRICT:

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LAST REVISED: 01/01/1900
 LAST PLOTTED:
 Last Pole Number: 58

Ohio Power
 SCALE 1"=100'
 PLOT NAME: 39830735D4
 MAP BORDER NAME: 39830735D4

39830735D4



39830759C1

39830760A1

39830759C3

39830759C4



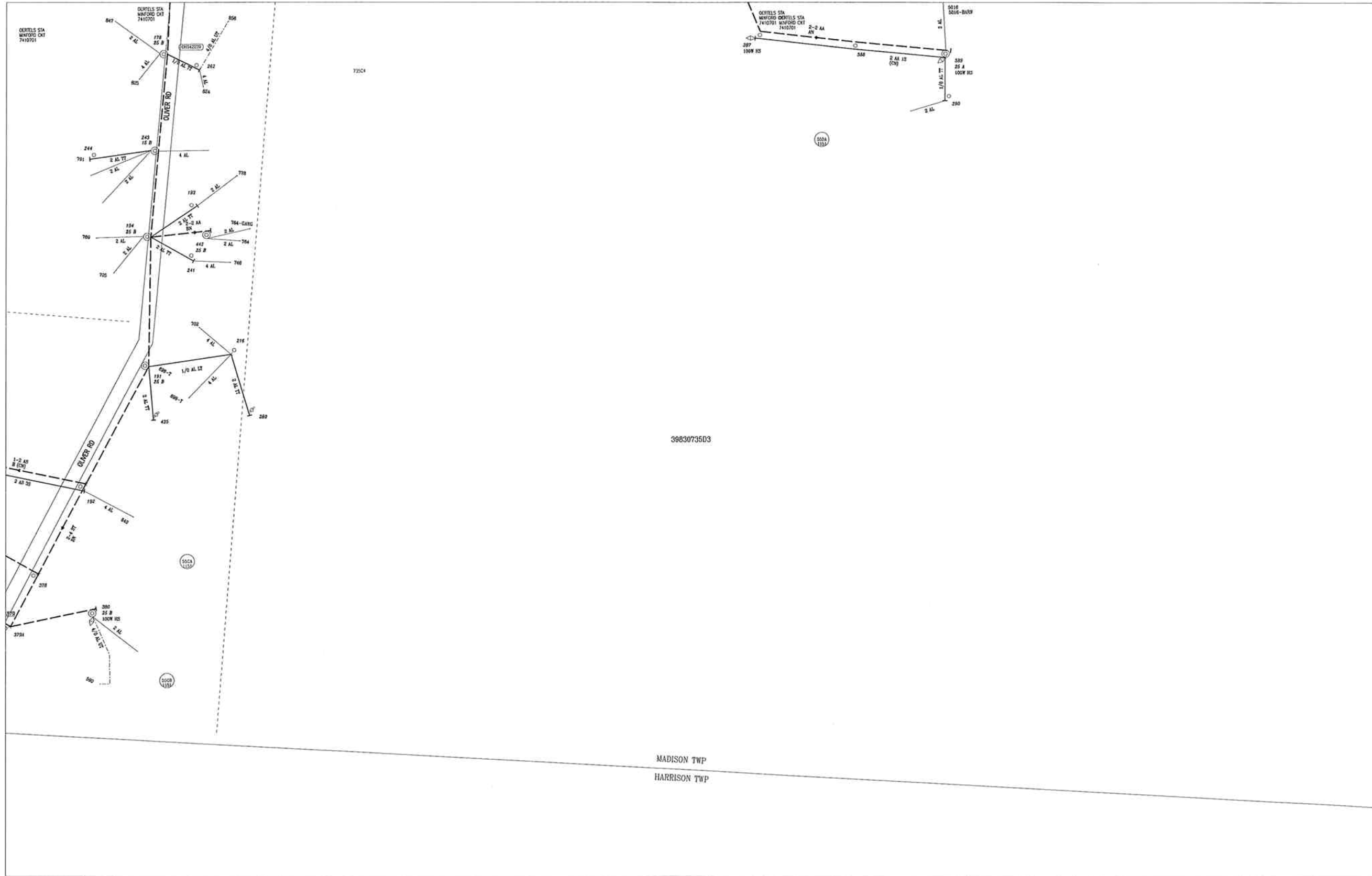
REGION: AEP OHIO DISTRICT:

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LAST REVISED: 01/01/1900
 LAST PLOTTED:
 Last Pole Number: 19

Ohio Power
 SCALE 1"=100'
 PLOT NAME: 39830759C3
 MAP BORDER NAME: 39830759C3

39830735C4



39830735D1

39830736B1

39830735D4



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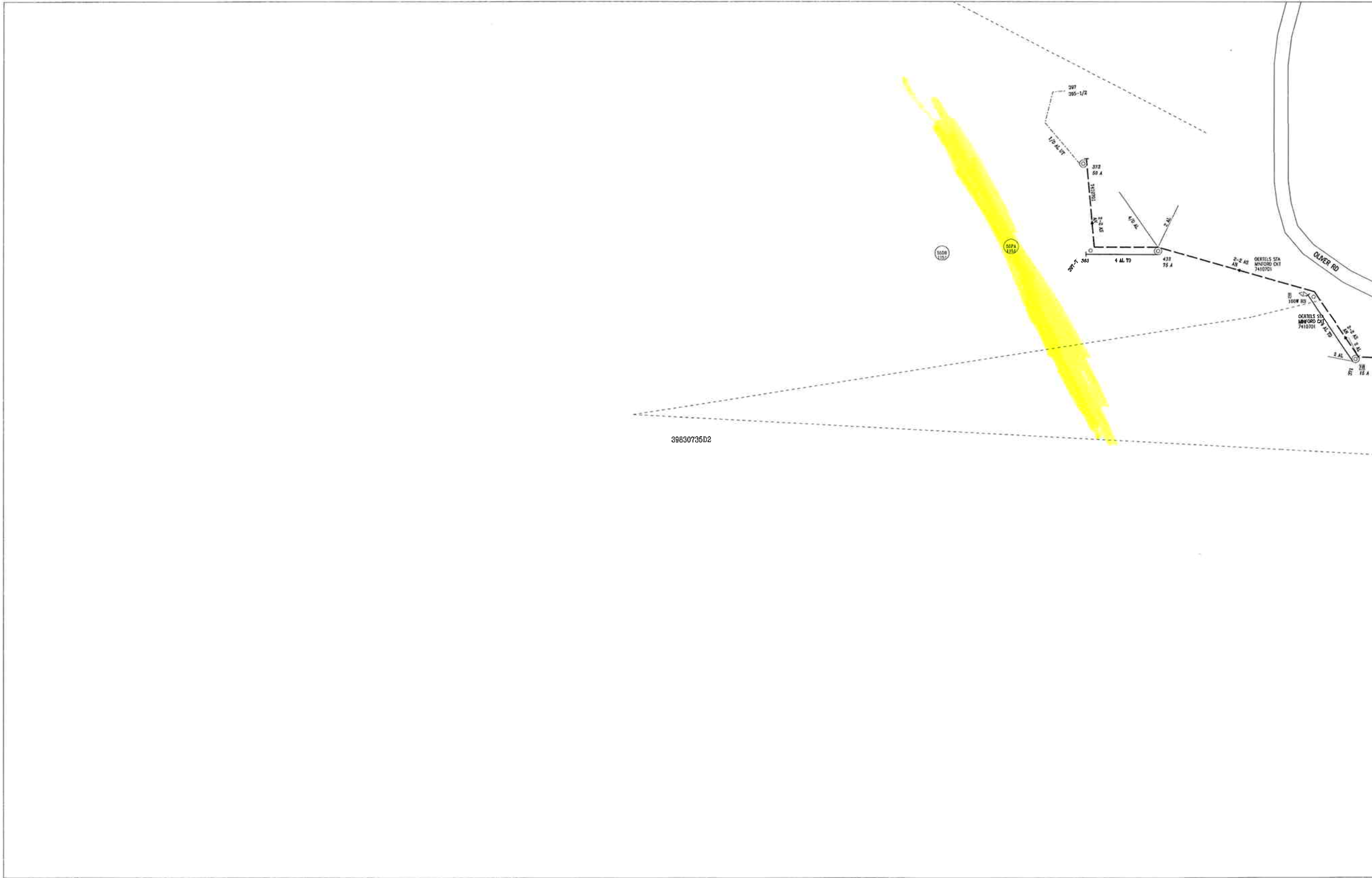
LAST REVISED: 01/01/1900
 LAST PLOTTED:
 Last Pole Number: 9000

Ohio Power
 SCALE 1"=100'
 PLOT NAME:39830735D3
 MAP BORDER NAME: 39830735

39830735D1

39830735B4

39830735D4



39830735D2

39830759C1



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LAST REVISED: 01/01/1900
 LAST PLOTTED:
 Last Pole Number: 9000

Ohio Power
 SCALE 1"=100'
 PLOT NAME: 39830735D2
 MAP BORDER NAME: 39830735

39830735C1



39830735A4

39830735C4

39830735D1



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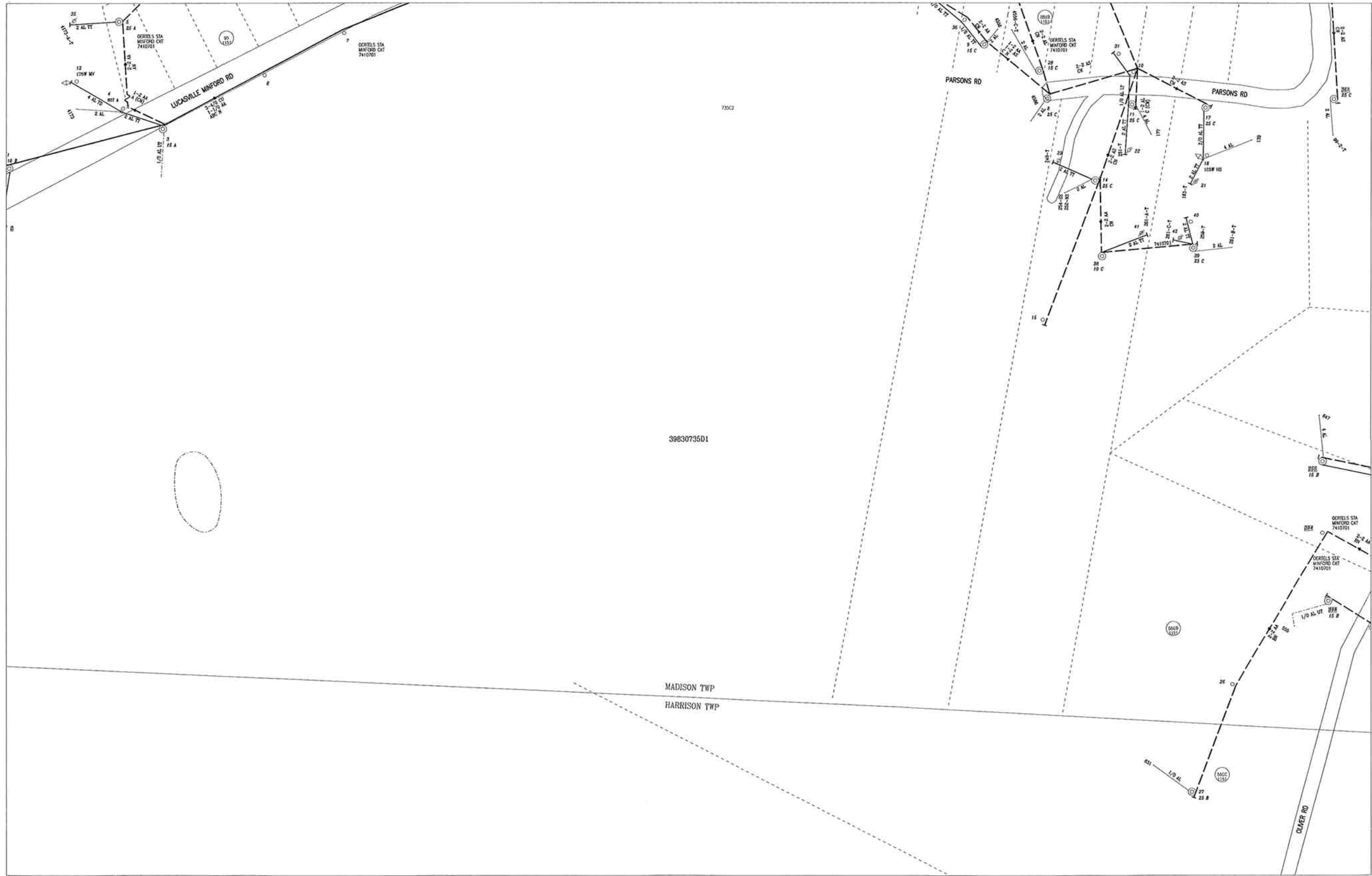
LAST REVISED: 01/01/1900
 LAST PLOTTED:
 Last Pole Number: 163

Ohio Power
 SCALE 1"=100'
 PLOT NAME: 39830735C2
 MAP BORDER NAME: 39830735C2

39830735C2

39830735B3

39830735D3



39830735D2



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LAST REVISED: 01/01/1900
 LAST PLOTTED:
 Last Pole Number: 399

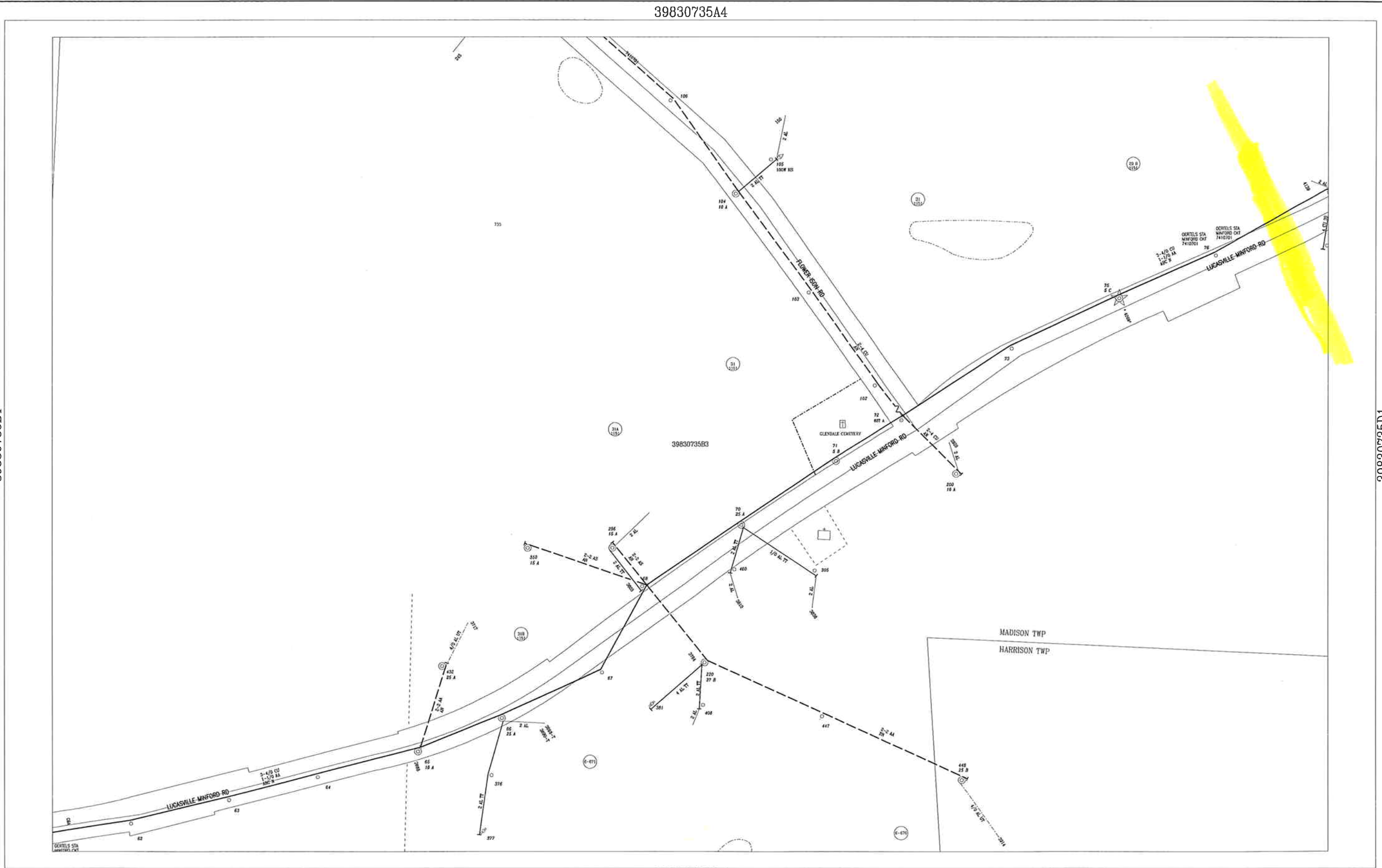
Ohio Power
 SCALE 1"=100'
 PLOT NAME: 39830735D1
 MAP BORDER NAME: 39830735D1

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ENTRIES/NOTES
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 39830735B9 : 39830735B0

39830735B1

39830735D1



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 THE LOCALE WHERE THE WORK IS TO BE PERFORMED.

LAST REVISED: 01/01/1900
 LAST PLOTTED:
 Last Pole Number: 9000

Ohio Power
 SCALE 1"=100'
 PLOT NAME: 39830735B3
 MAP BORDER NAME: 39830735

07-0893.00
 EVERET A. BENNETT, JENNIFER BENTLEY,
 AND ERIC. D. BENNETT

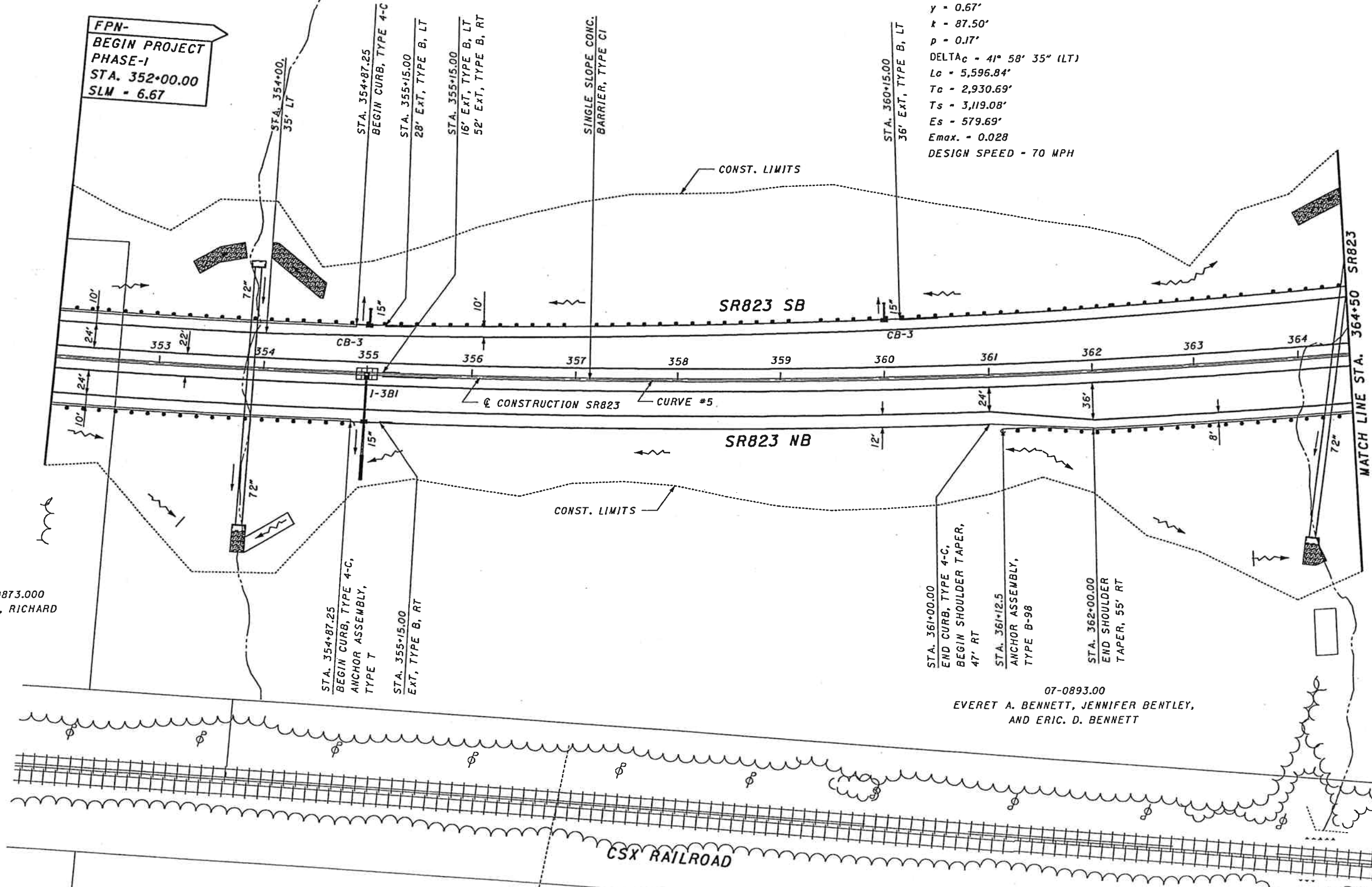
SR823 CURVE # 5

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_c - 41° 58' 35" (LT)
 Lc = 5,596.84'
 Tc = 2,930.69'
 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



FPN-
 BEGIN PROJECT
 PHASE-I
 STA. 352+00.00
 SLM = 6.67

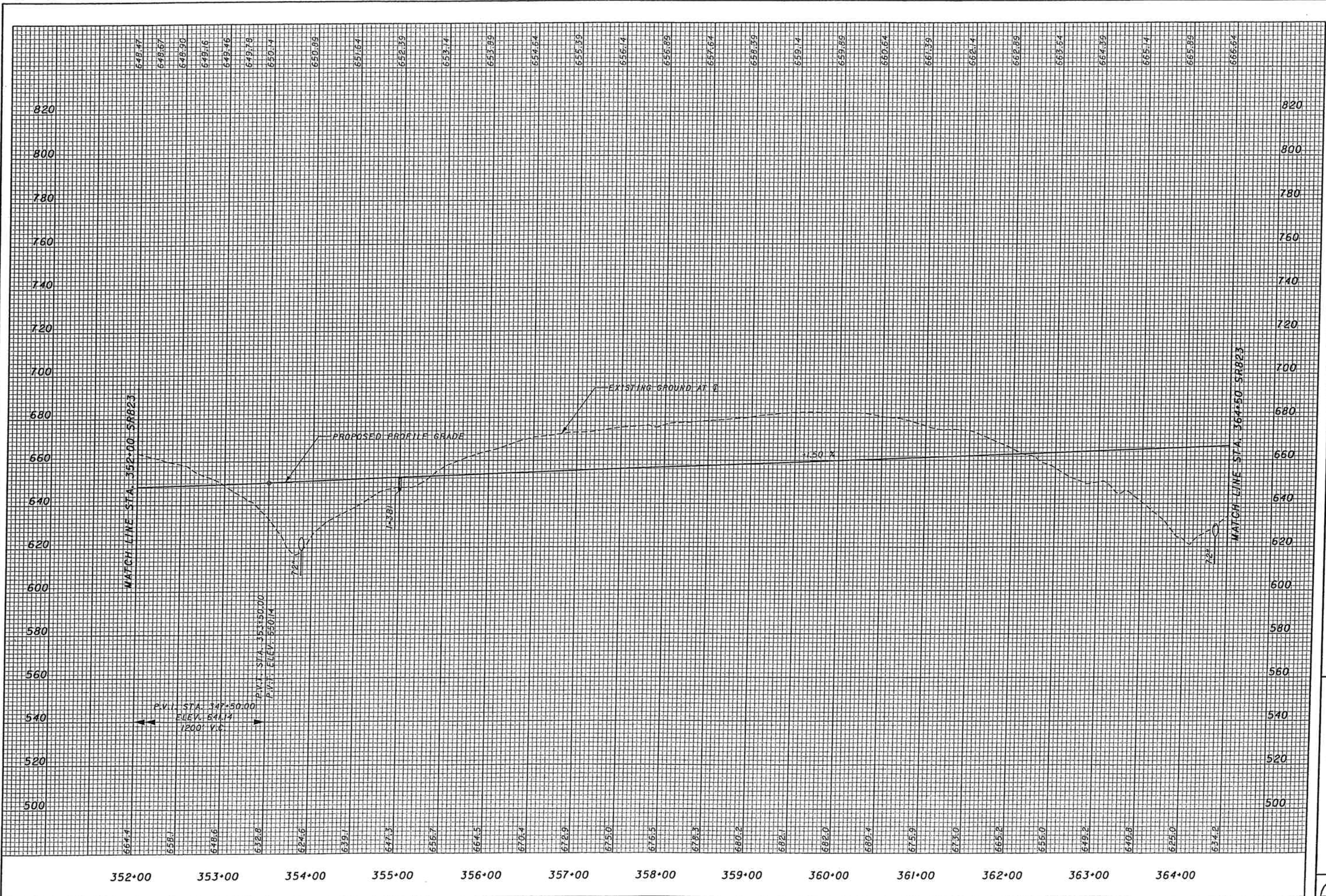


07-0873.000
 BOSST, RICHARD

07-0893.00
 EVERET A. BENNETT, JENNIFER BENTLEY,
 AND ERIC. D. BENNETT

PLAN - SR823
 STA. 352+00.00 TO STA. 364+50.00

SCI-823-6.81



SR823 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_c = 41° 58' 35" (LT)
 Lc = 5,596.84'
 Tc = 2,930.69'
 Ts = 3,119.08'
 Es = 579.69'
 Emax. = 0.028
 DESIGN SPEED = 70 MPH

07-0893.000
 EVERET A. BENNETT,
 JENNIFER BENTLEY, AND
 ERIC. D. BENNETT

07-0893.000
 BENNETT, ERIC D.,
 BENNETT, EVERETT A., AND
 BENTLEY, JENNIFER

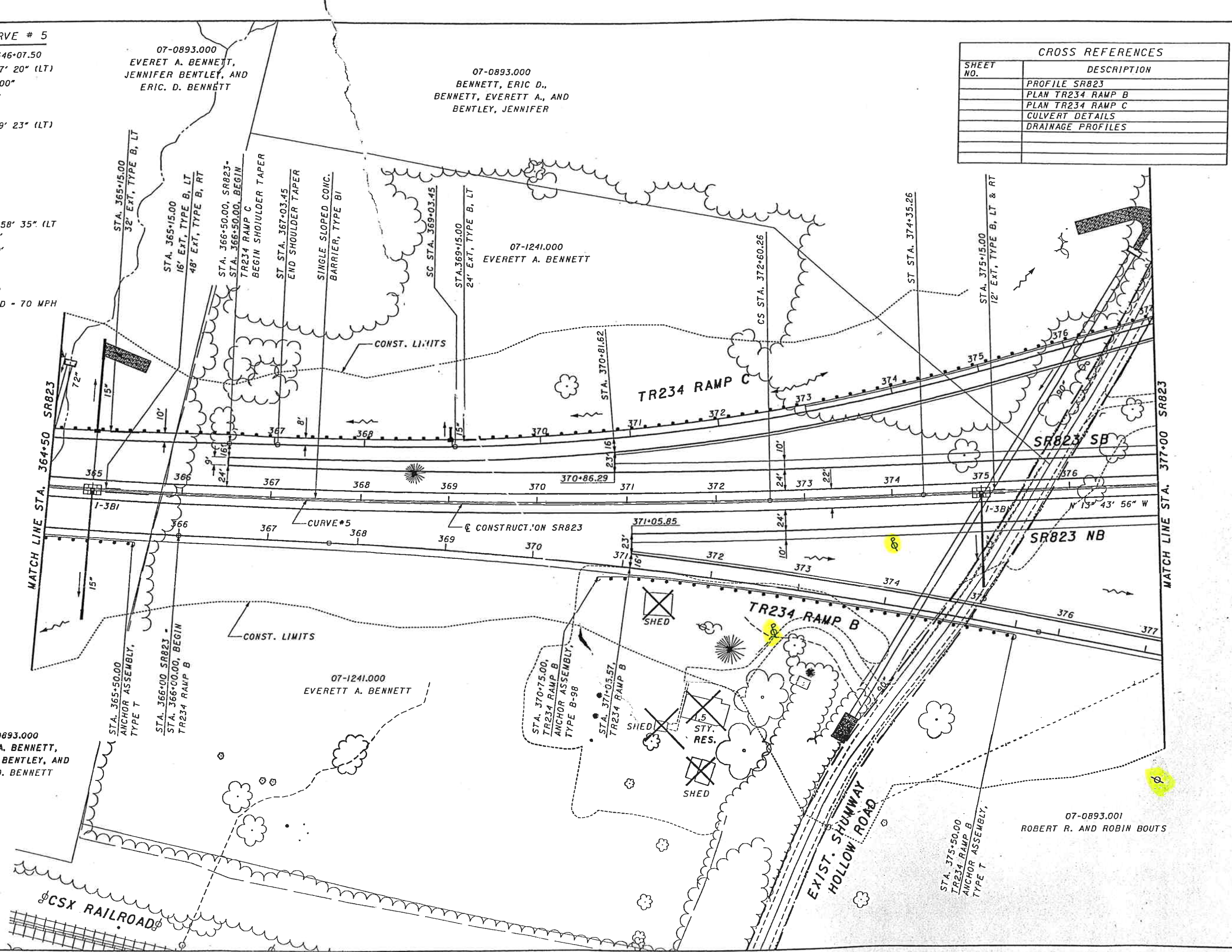
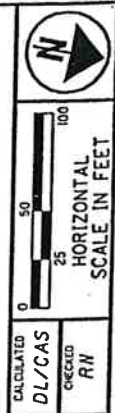
07-1241.000
 EVERETT A. BENNETT

07-1241.000
 EVERETT A. BENNETT

07-0893.000
 EVERET A. BENNETT,
 JENNIFER BENTLEY, AND
 ERIC. D. BENNETT

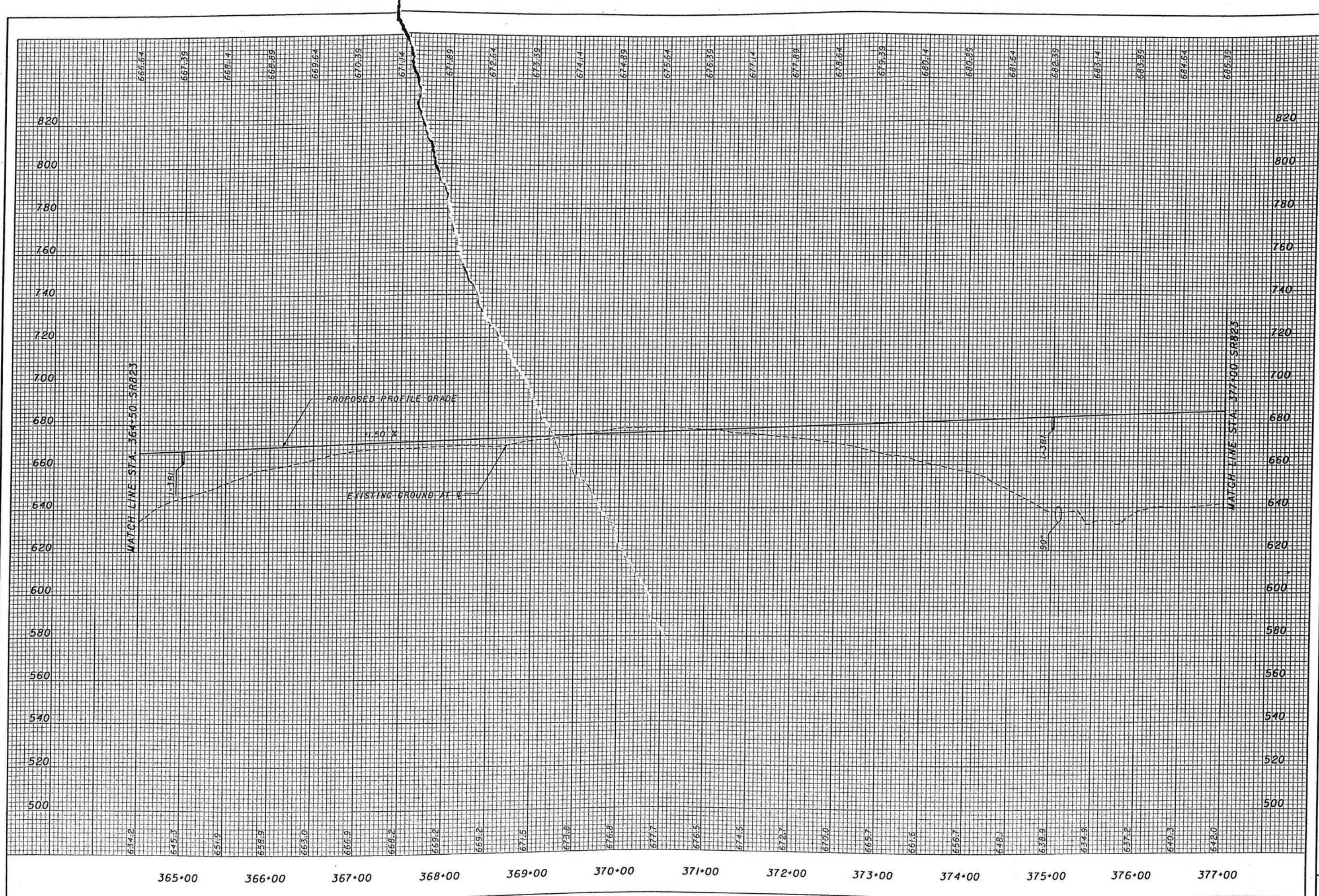
07-0893.001
 ROBERT R. AND ROBIN BOUTS

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	PLAN TR234 RAMP B
	PLAN TR234 RAMP C
	CULVERT DETAILS
	DRAINAGE PROFILES



PLAN - SR823
 STA. 364+50.00 TO STA. 377+00.00

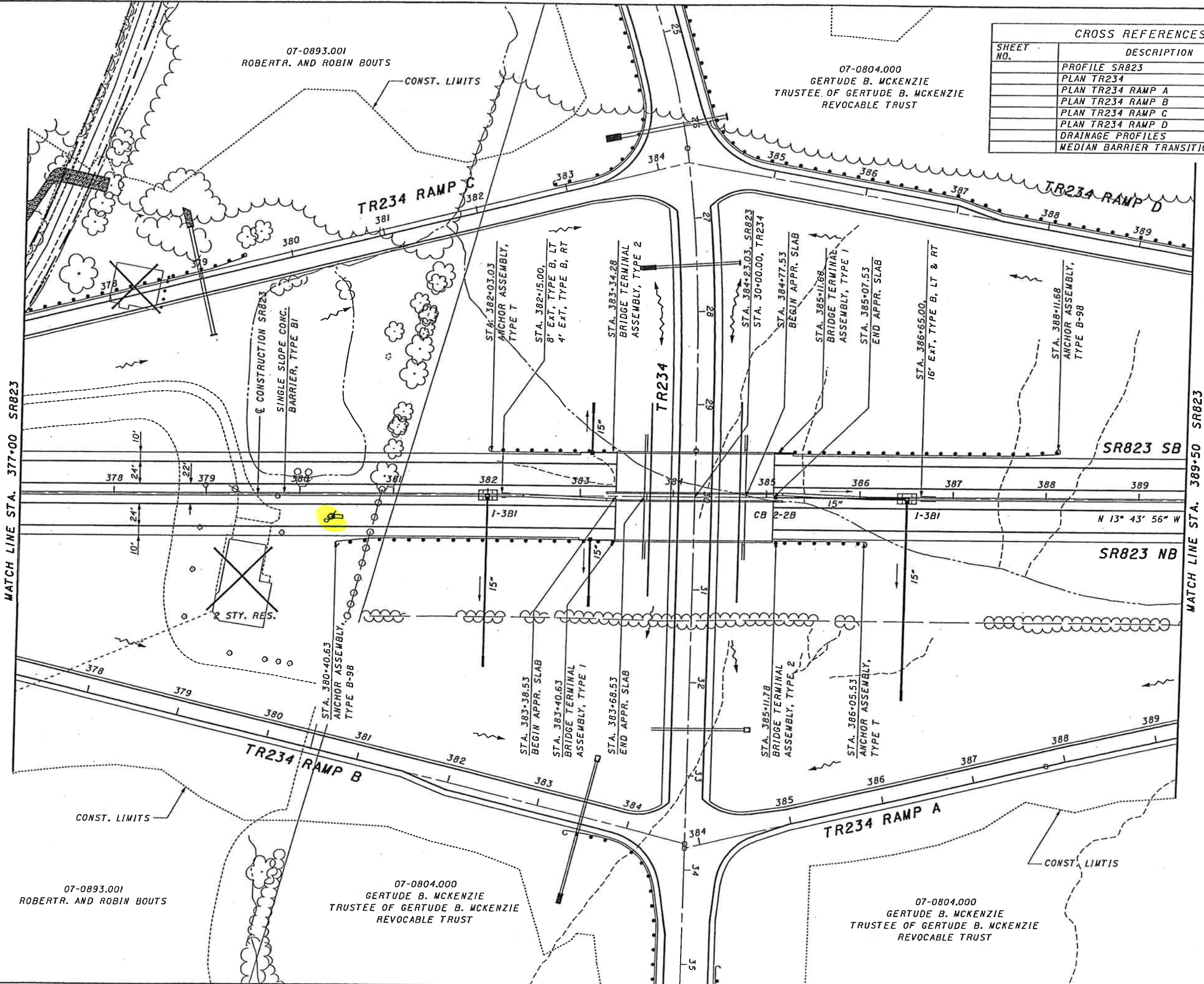
SCI-823-6.81



CALCULATED
JFA/CAS
CHECKED
RN

PROFILE - SR823
STA. 364+50 TO STA. 377+00

SCI-823--6.81



CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	PLAN TR234
	PLAN TR234 RAMP A
	PLAN TR234 RAMP B
	PLAN TR234 RAMP C
	PLAN TR234 RAMP D
	DRAINAGE PROFILES
	MEDIAN BARRIER TRANSITION DETAIL



MATCH LINE STA. 377+00 SR823

MATCH LINE STA. 389+50 SR823

PLAN - SR823
 STA. 377+00.00 TO STA. 389+50.00

SCI-823-6.81

07-0893.001
 ROBERTA. AND ROBIN BOUTS

07-0804.000
 GERTUDE B. MCKENZIE
 TRUSTEE OF GERTUDE B. MCKENZIE
 REVOCABLE TRUST

07-0893.001
 ROBERTA. AND ROBIN BOUTS

07-0804.000
 GERTUDE B. MCKENZIE
 TRUSTEE OF GERTUDE B. MCKENZIE
 REVOCABLE TRUST

07-0804.000
 GERTUDE B. MCKENZIE
 TRUSTEE OF GERTUDE B. MCKENZIE
 REVOCABLE TRUST

SR823 SB

SR823 NB

N 13° 43' 56" W

TR234 RAMP C

TR234 RAMP D

TR234 RAMP B

TR234 RAMP A

STA. 382+03.03
 ANCHOR ASSEMBLY,
 TYPE T

STA. 382+15.00,
 8' EXT. TYPE B, LT
 4' EXT. TYPE B, RT

STA. 383+34.28
 BRIDGE TERMINAL
 ASSEMBLY, TYPE 2

STA. 384+23.03, SR823
 STA. 30+00.00, TR234

STA. 384+77.53
 BEGIN APPR. SLAB

STA. 385+11.68
 BRIDGE TERMINAL
 ASSEMBLY, TYPE 1

STA. 385+07.53
 END APPR. SLAB

STA. 386+65.00,
 16' EXT. TYPE B, LT & RT

STA. 388+11.68
 ANCHOR ASSEMBLY,
 TYPE B-98

STA. 380+40.63
 ANCHOR ASSEMBLY,
 TYPE B-98

STA. 383+38.53
 BEGIN APPR. SLAB

STA. 383+40.63
 BRIDGE TERMINAL
 ASSEMBLY, TYPE 1

STA. 383+68.53
 END APPR. SLAB

STA. 385+11.78
 BRIDGE TERMINAL
 ASSEMBLY, TYPE 2

STA. 386+05.53
 ANCHOR ASSEMBLY,
 TYPE T

10'
 24'

15"

15"

MATCH LINE STA. 377+00 SR823

MATCH LINE STA. 389+50 SR823

PLAN - SR823
 STA. 377+00.00 TO STA. 389+50.00

SCI-823-6.81

07-0893.001
 ROBERTA. AND ROBIN BOUTS

07-0804.000
 GERTUDE B. MCKENZIE
 TRUSTEE OF GERTUDE B. MCKENZIE
 REVOCABLE TRUST

07-0893.001
 ROBERTA. AND ROBIN BOUTS

07-0804.000
 GERTUDE B. MCKENZIE
 TRUSTEE OF GERTUDE B. MCKENZIE
 REVOCABLE TRUST

07-0804.000
 GERTUDE B. MCKENZIE
 TRUSTEE OF GERTUDE B. MCKENZIE
 REVOCABLE TRUST

SR823 SB

SR823 NB

N 13° 43' 56" W

TR234 RAMP C

TR234 RAMP D

TR234 RAMP B

TR234 RAMP A

STA. 382+03.03
 ANCHOR ASSEMBLY,
 TYPE T

STA. 382+15.00,
 8' EXT. TYPE B, LT
 4' EXT. TYPE B, RT

STA. 383+34.28
 BRIDGE TERMINAL
 ASSEMBLY, TYPE 2

STA. 384+23.03, SR823
 STA. 30+00.00, TR234

STA. 384+77.53
 BEGIN APPR. SLAB

STA. 385+11.68
 BRIDGE TERMINAL
 ASSEMBLY, TYPE 1

STA. 385+07.53
 END APPR. SLAB

STA. 386+65.00,
 16' EXT. TYPE B, LT & RT

STA. 388+11.68
 ANCHOR ASSEMBLY,
 TYPE B-98

STA. 380+40.63
 ANCHOR ASSEMBLY,
 TYPE B-98

STA. 383+38.53
 BEGIN APPR. SLAB

STA. 383+40.63
 BRIDGE TERMINAL
 ASSEMBLY, TYPE 1

STA. 383+68.53
 END APPR. SLAB

STA. 385+11.78
 BRIDGE TERMINAL
 ASSEMBLY, TYPE 2

STA. 386+05.53
 ANCHOR ASSEMBLY,
 TYPE T

10'
 24'

15"

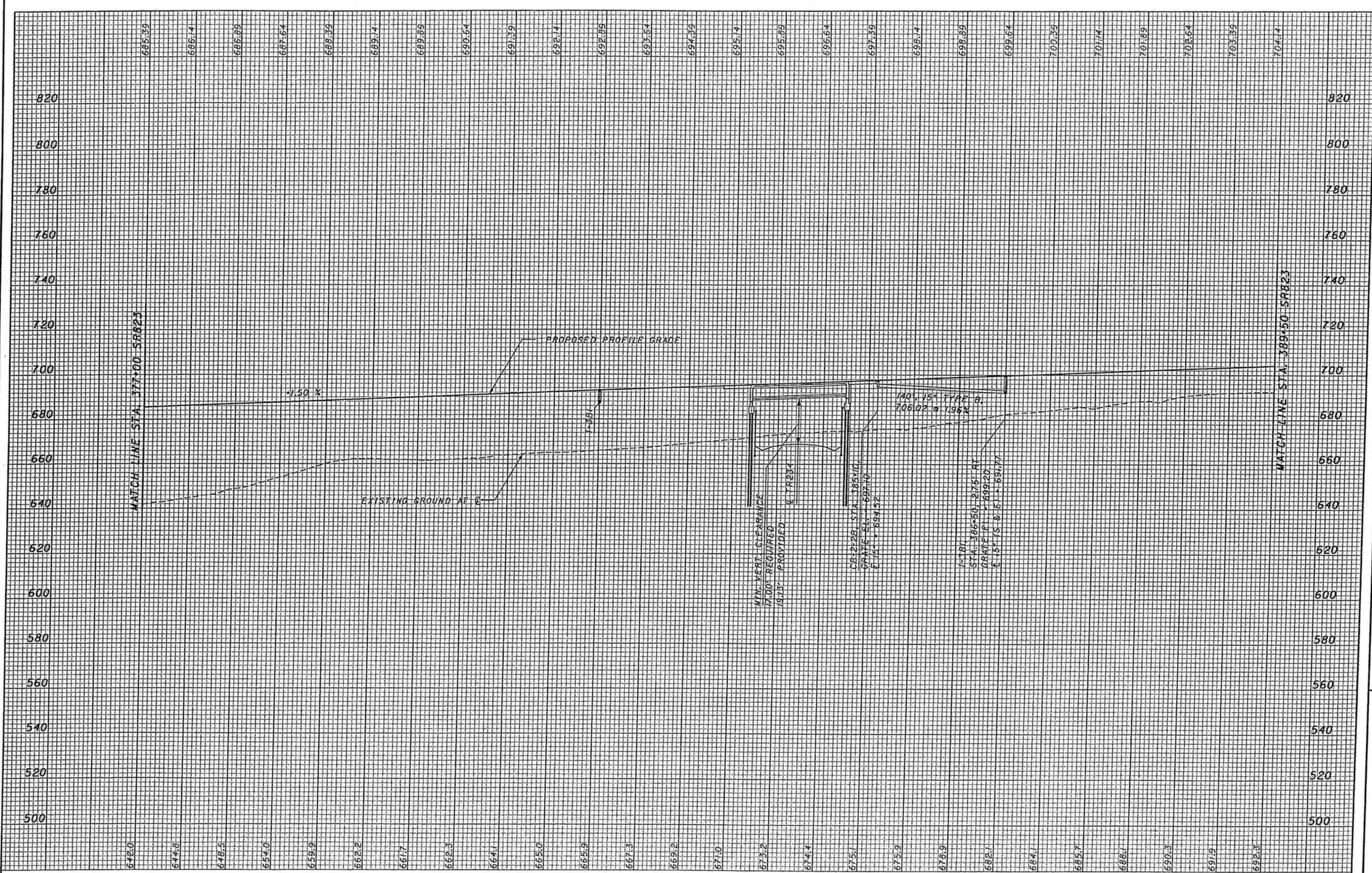
15"

MATCH LINE STA. 377+00 SR823

MATCH LINE STA. 389+50 SR823

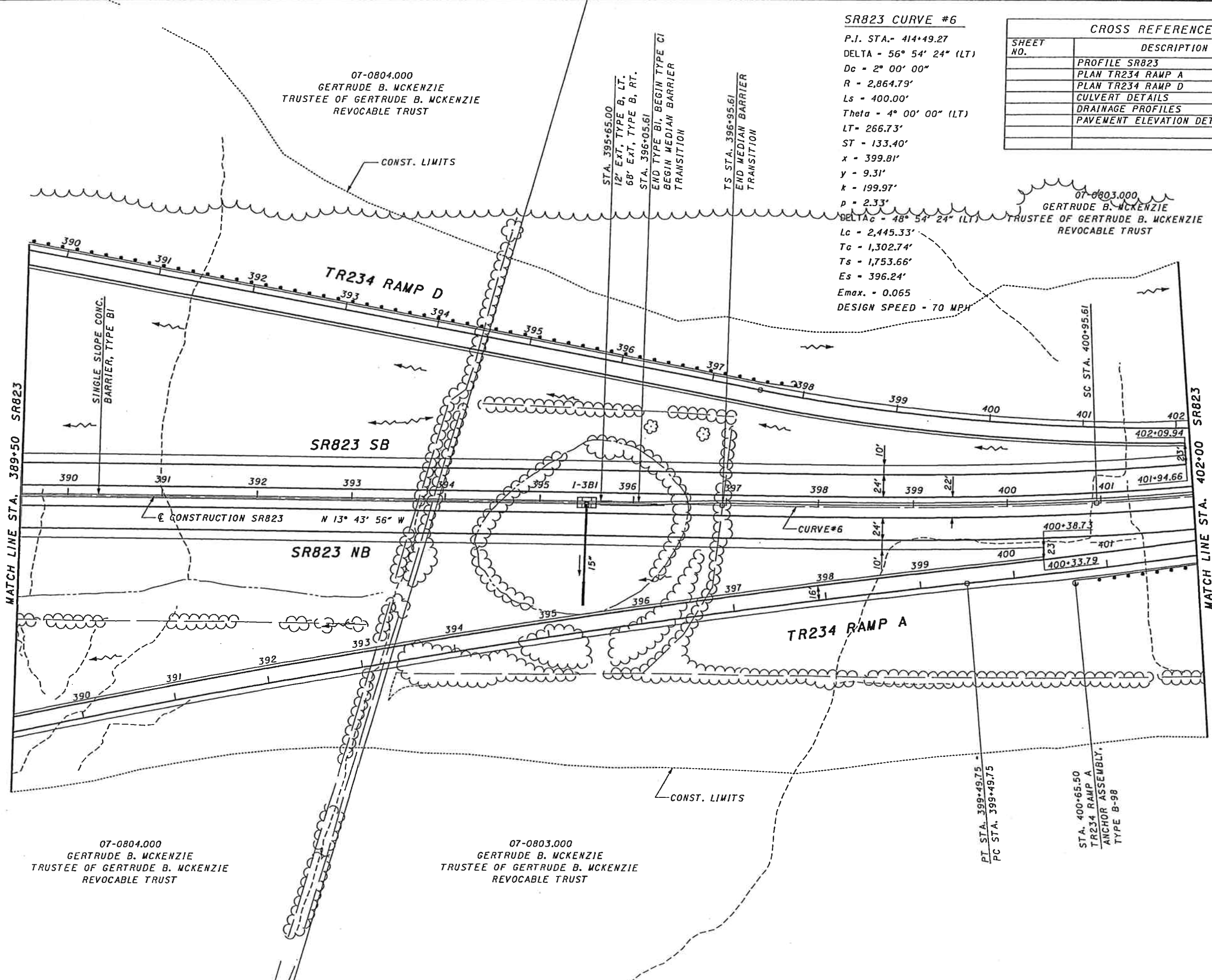
PLAN - SR823
 STA. 377+00.00 TO STA. 389+50.00

SCI-823-6.81



377+00 378+00 379+00 380+00 381+00 382+00 383+00 384+00 385+00 386+00 387+00 388+00 389+00

CALCULATED JFA/CAS	CHECKED RM
PROFILE - SR823 STA. 377+00 TO STA. 389+50	
SCI-823-6.81	
38	



SR823 CURVE #6

P.I. STA. - 414+49.27
 DELTA - 56° 54' 24" (LT)
 Dc = 2° 00' 00"
 R = 2,864.79'
 Ls = 400.00'
 Theta = 4° 00' 00" (LT)
 LT = 266.73'
 ST = 133.40'
 x = 399.81'
 y = 9.31'
 k = 199.97'
 p = 2.33'
 DELTAc = 48° 54' 24" (LT)
 Lc = 2,445.33'
 Tc = 1,302.74'
 Ts = 1,753.66'
 Es = 396.24'
 Emax. = 0.065
 DESIGN SPEED - 70 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	PLAN TR234 RAMP A
	PLAN TR234 RAMP D
	CULVERT DETAILS
	DRAINAGE PROFILES
	PAVEMENT ELEVATION DETAILS

HORIZONTAL SCALE IN FEET

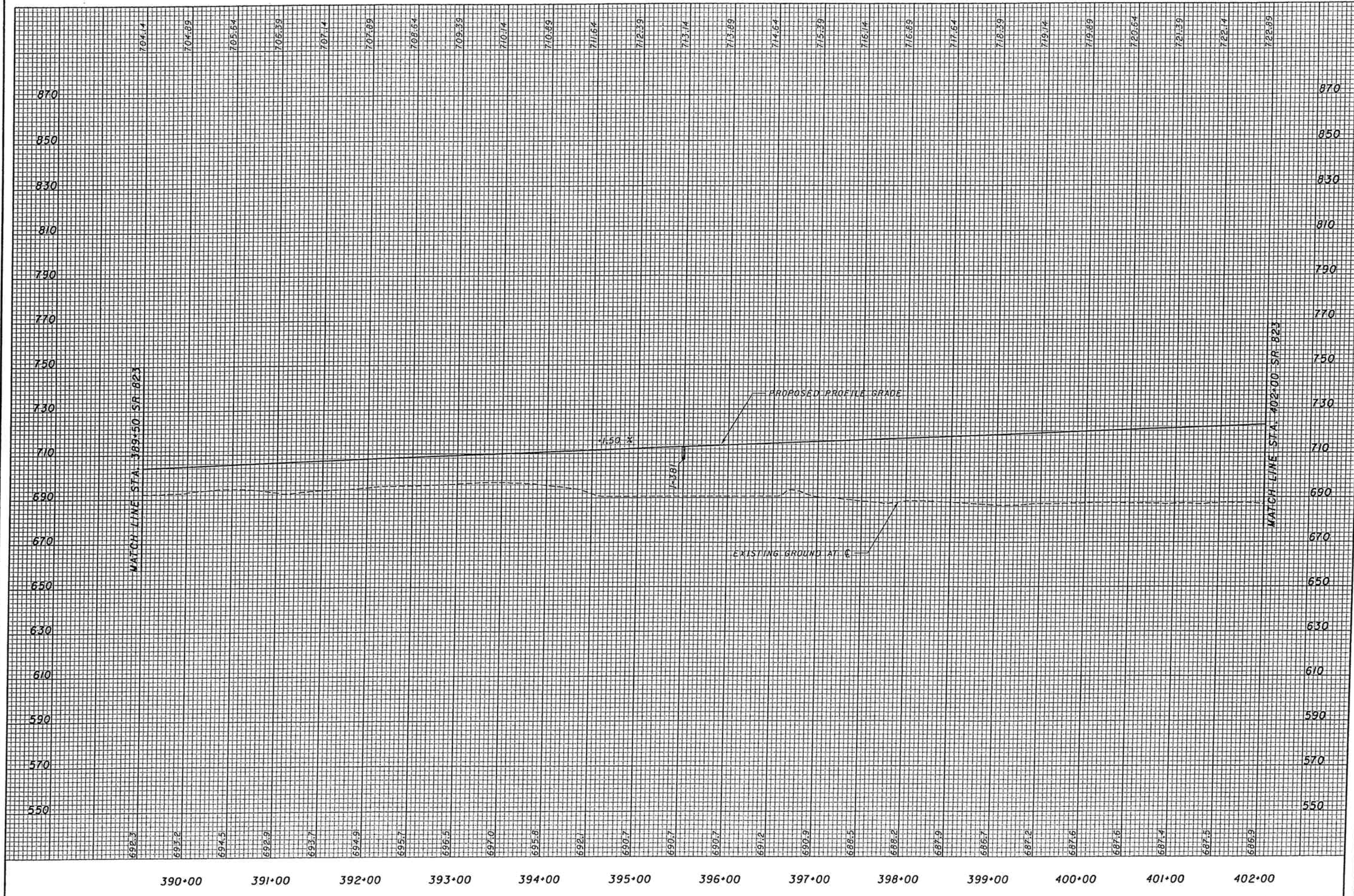
CALCULATED DL/CAS
CHECKED RN

PLAN - SR823

STA. 389+50.00 TO STA. 402+00.00

SCI-823-6.81

39



MATCH LINE STA. 389+50 SR 823

MATCH LINE STA. 402+00 SR 823

PROPOSED PROFILE GRADE

EXISTING GROUND AT C

+1.50 %

113.81

CALCULATED
JFA
CHECKED
RH

PROFILE - SR 823
STA. 389+50 TO STA. 402+00

SCI-823-6.81

07-0803.000
 GERTRUDE B. MCKENZIE
 TRUSTEE OF GERTRUDE B. MCKENZIE
 REVOCABLE TRUST

SR823 CURVE #6

P.I. STA. - 414+49.27
 DELTA - 56° 54' 24" (LT)
 Dc - 2° 00' 00"
 R - 2,864.79'
 Ls - 400.00'
 Theta - 4° 00' 00" (LT)
 LT - 266.73'
 ST - 133.40'
 x - 399.81'
 y - 9.31'
 k - 199.97'
 p - 2.33'
 DELTA_c - 48° 54' 24" (LT)
 Lc - 2,445.33'
 Tc - 1,302.74'
 Ts - 1,753.66'
 Es - 396.24'

E_{max} = 0.065
 DESIGN SPEED = 70 MPH

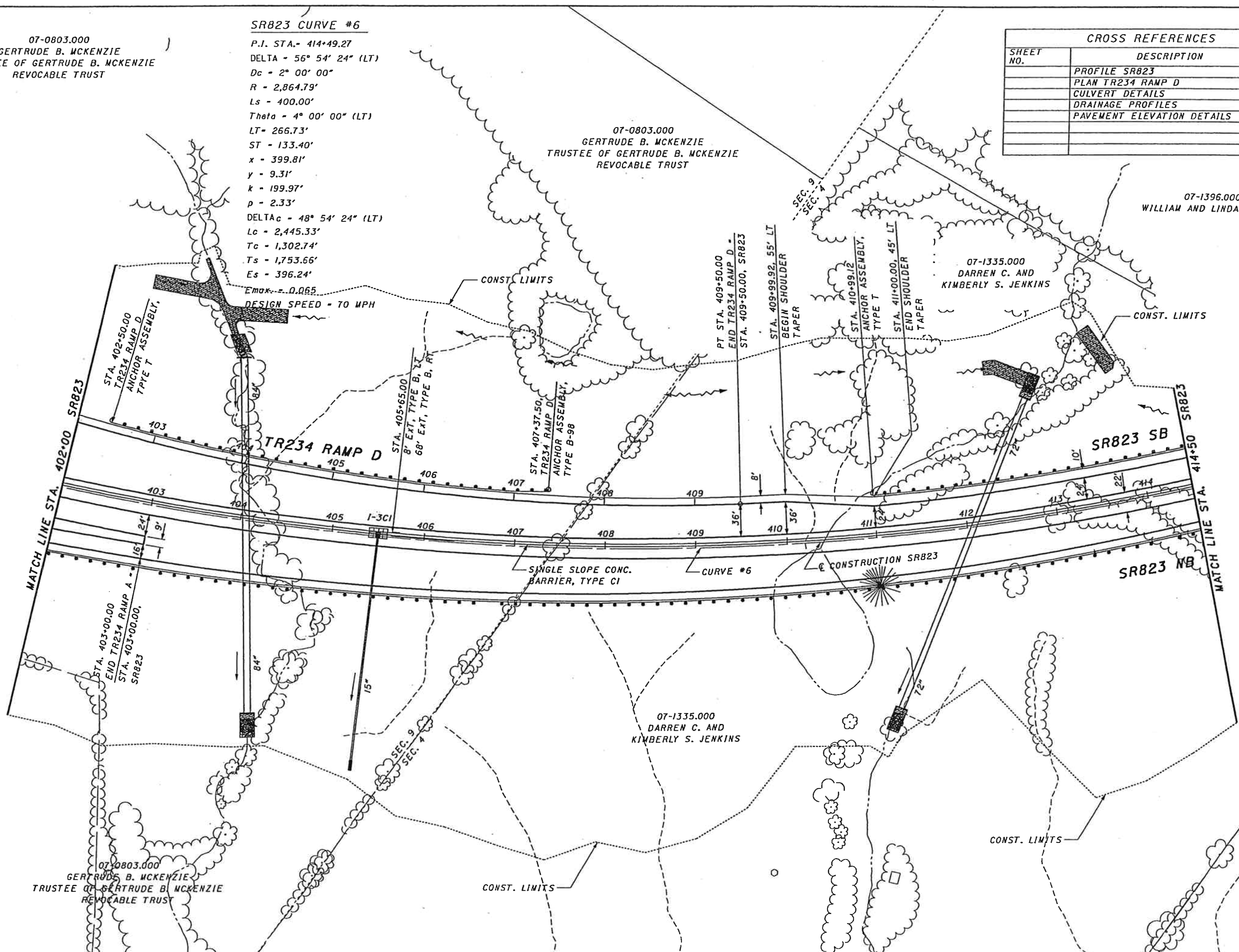
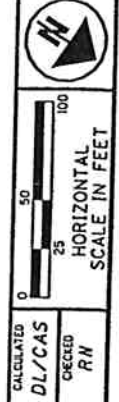
07-0803.000
 GERTRUDE B. MCKENZIE
 TRUSTEE OF GERTRUDE B. MCKENZIE
 REVOCABLE TRUST

07-1396.000
 WILLIAM AND LINDA LESTER

07-1335.000
 DARREN C. AND
 KIMBERLY S. JENKINS

07-1335.000
 DARREN C. AND
 KIMBERLY S. JENKINS

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	PLAN TR234 RAMP D
	CULVERT DETAILS
	DRAINAGE PROFILES
	PAVEMENT ELEVATION DETAILS

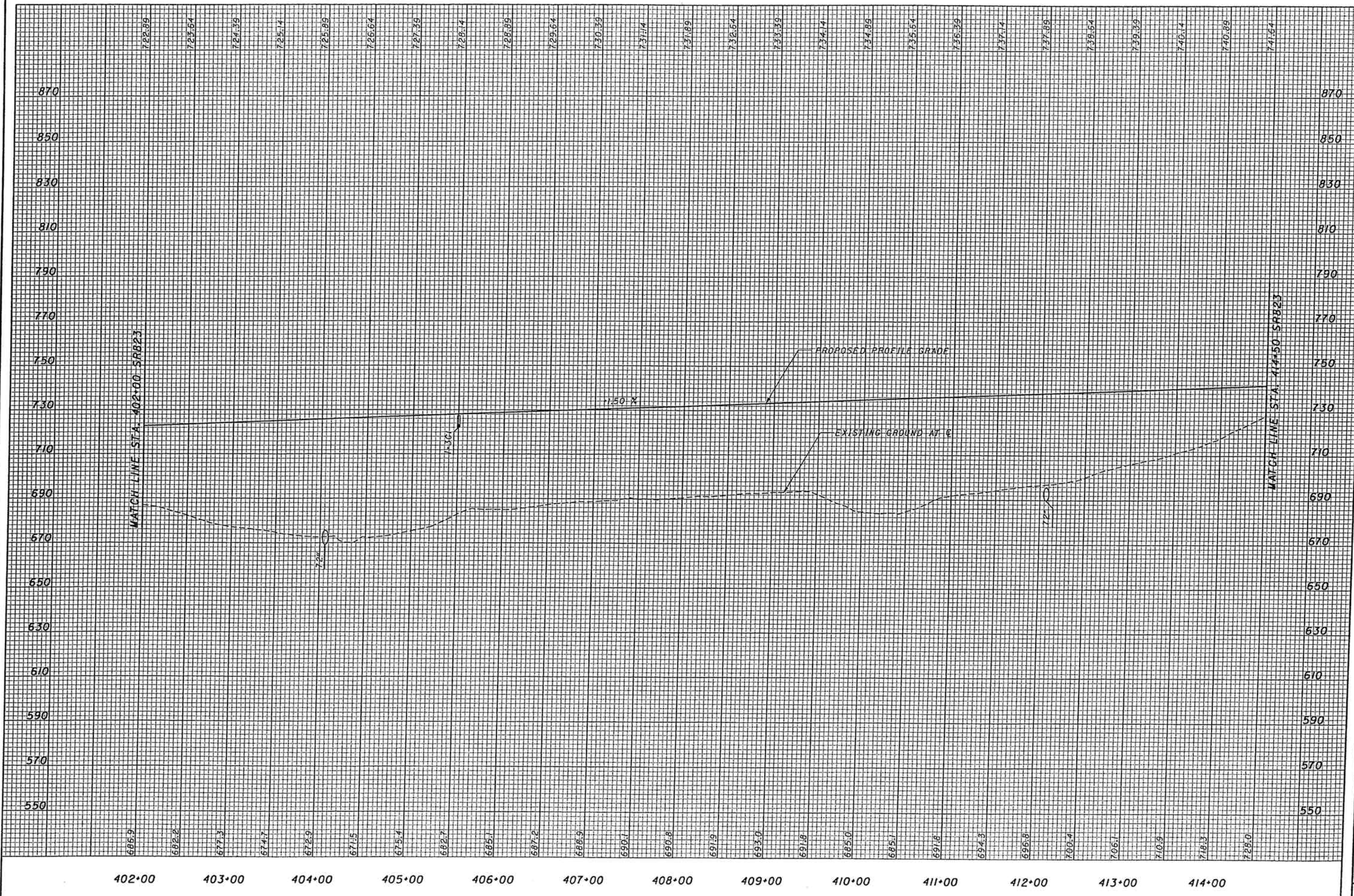


MATCH LINE STA. 402+00 SR823

MATCH LINE STA. 414+50 SR823

PLAN - SR823
 STA. 402+00.00 TO STA. 414+50.00

SCI-823-6.81



CALCULATED: JFA/CAS
 CHECKED: RN
 PROFILE - SR823
 STA. 402+00 TO STA. 414+50
 SCI-823-6.81
 42

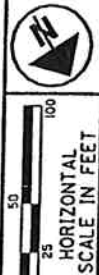
07-1335.000
DARREN C. AND
KIMBERLY S. JENKINS

SR823 CURVE # 6

P.I. STA. = 414+49.27
 DELTA = 56° 54' 24" (LT)
 Dc = 2° 00' 00"
 R = 2,864.79'
 Ls = 400.00'
 Theta = 4° 00' 00" (LT)
 LT = 266.73'
 ST = 133.40'
 x = 399.81'
 y = 9.31'
 k = 199.97'
 p = 2.33'
 DELTA_c = 48° 54' 24" (LT)
 Lc = 2,445.33'
 Tc = 1,302.74'
 Ts = 1,753.66'
 Es = 396.24'
 Emax. = 0.065
 DESIGN SPEED = 70 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	DRAINAGE PROFILES

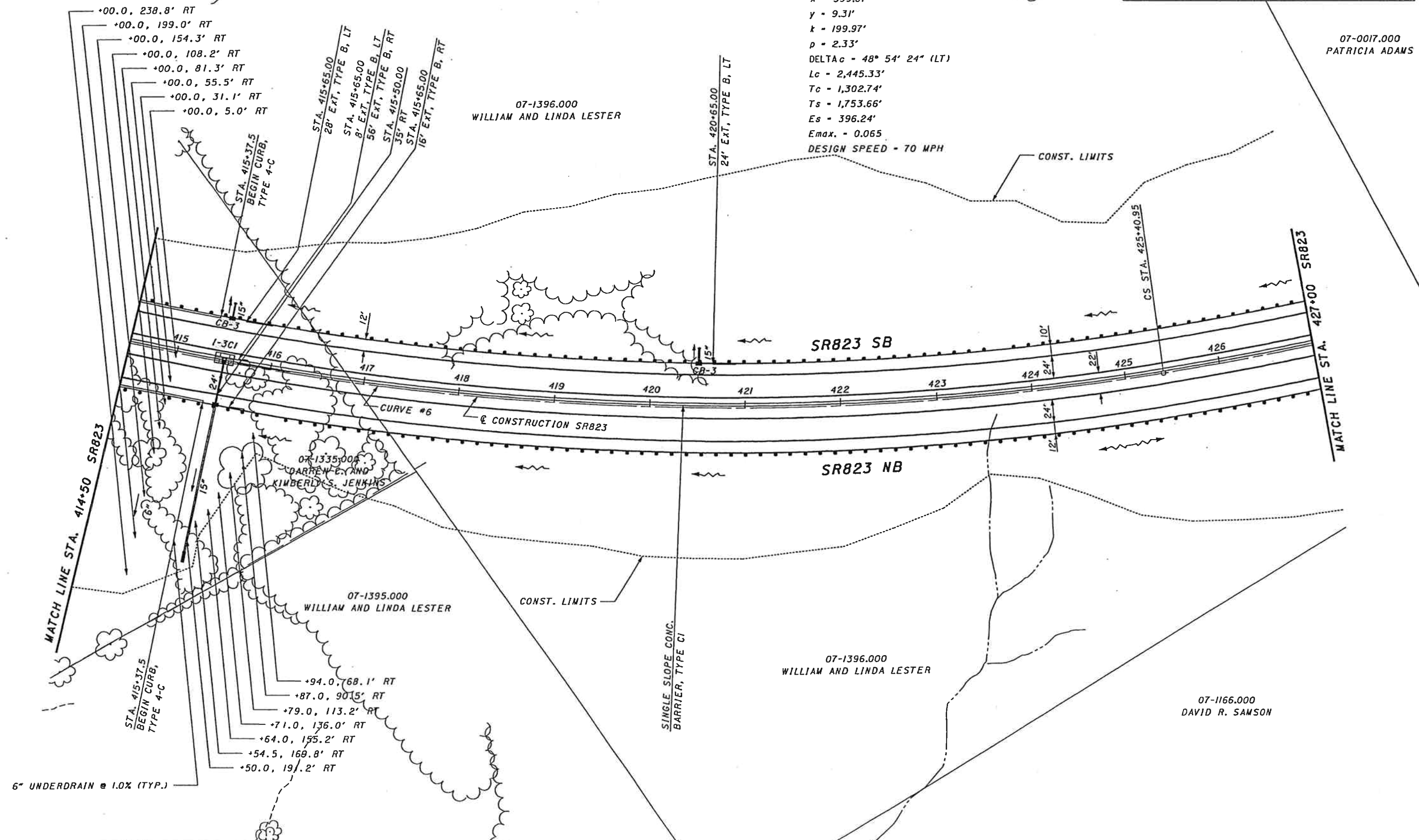
07-0017.000
PATRICIA ADAMS



CALCULATED
DL/CAS
CHECKED
RN

PLAN - SR823
STA. 414+50.00 TO STA. 427+00.00

SCI-823-6.81



6" UNDERDRAIN @ 1.0% (TYP.)

07-1395.000
WILLIAM AND LINDA LESTER

07-1396.000
WILLIAM AND LINDA LESTER

07-1166.000
DAVID R. SAMSON

MATCH LINE STA. 414+50 SR823

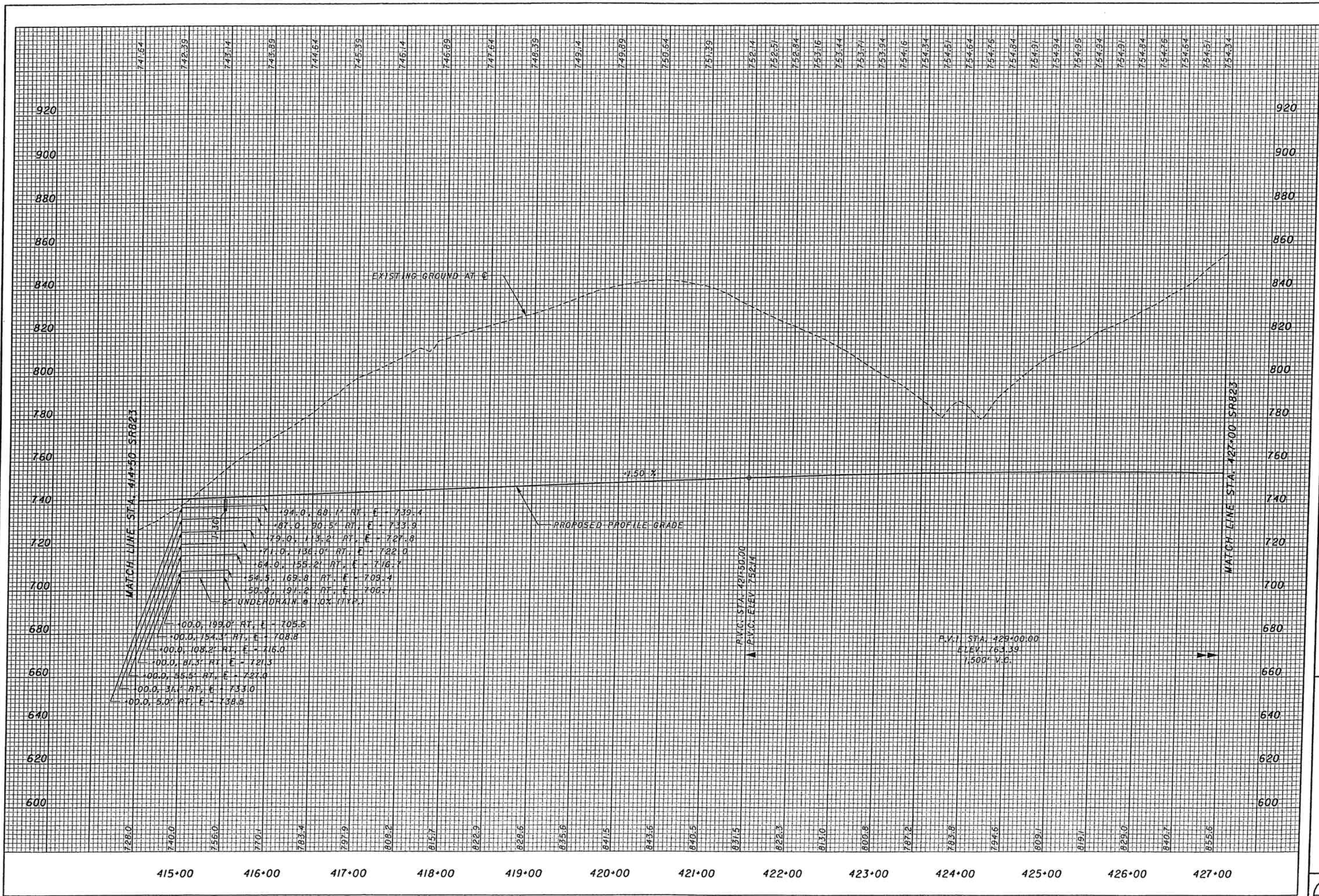
MATCH LINE STA. 427+00 SR823

- +94.0, 68.1' RT
- +87.0, 90.15' RT
- +79.0, 113.2' RT
- +71.0, 136.0' RT
- +64.0, 155.2' RT
- +54.5, 169.8' RT
- +50.0, 191.2' RT

- STA. 415+37.5
BEGIN CURB,
TYPE 4-C
- STA. 415+65.00
28' EXT, TYPE B, LT
- STA. 415+65.00
8' EXT, TYPE B, LT
- STA. 415+50.00
35' RT
- STA. 415+65.00
16' EXT, TYPE B, RT

- +00.0, 238.8' RT
- +00.0, 199.0' RT
- +00.0, 154.3' RT
- +00.0, 108.2' RT
- +00.0, 81.3' RT
- +00.0, 55.5' RT
- +00.0, 31.1' RT
- +00.0, 5.0' RT

07-1396.000
WILLIAM AND LINDA LESTER



- 194.0, 68.1' RT, E - 739.4
- 187.0, 90.5' RT, E - 733.9
- 179.0, 113.2' RT, E - 727.8
- 171.0, 136.0' RT, E - 722.0
- 164.0, 155.2' RT, E - 716.7
- 154.5, 163.8' RT, E - 709.4
- 150.0, 191.2' RT, E - 706.1
- 6" UNDERDRAIN @ 1.0% (TYP.)
- 00.0, 199.0' RT, E - 705.6
- 00.0, 154.3' RT, E - 708.8
- 00.0, 108.2' RT, E - 716.0
- 00.0, 81.3' RT, E - 721.3
- 00.0, 55.5' RT, E - 727.0
- 00.0, 31.1' RT, E - 733.0
- 00.0, 5.0' RT, E - 738.5

SR823 CURVE # 6

07-0017.000
PATRICIA ADAMS

P.I. STA. - 414+49.27
 DELTA - 56° 54' 24" (LT)
 Dc - 2° 00' 00"
 R - 2,864.79'
 Ls - 400.00'
 Theta - 4° 00' 00" (LT)
 LT - 266.73'
 ST - 133.40'
 x - 399.81'
 y - 9.31'
 k - 199.97'
 p - 2.33'
 DELTA_c - 48° 54' 24" (LT)
 Lc - 2,445.33'
 Tc - 1,302.74'
 Ts - 1,753.66'
 Es - 396.24'
 Emax. - 0.065
 DESIGN SPEED - 70 MPH

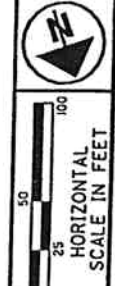
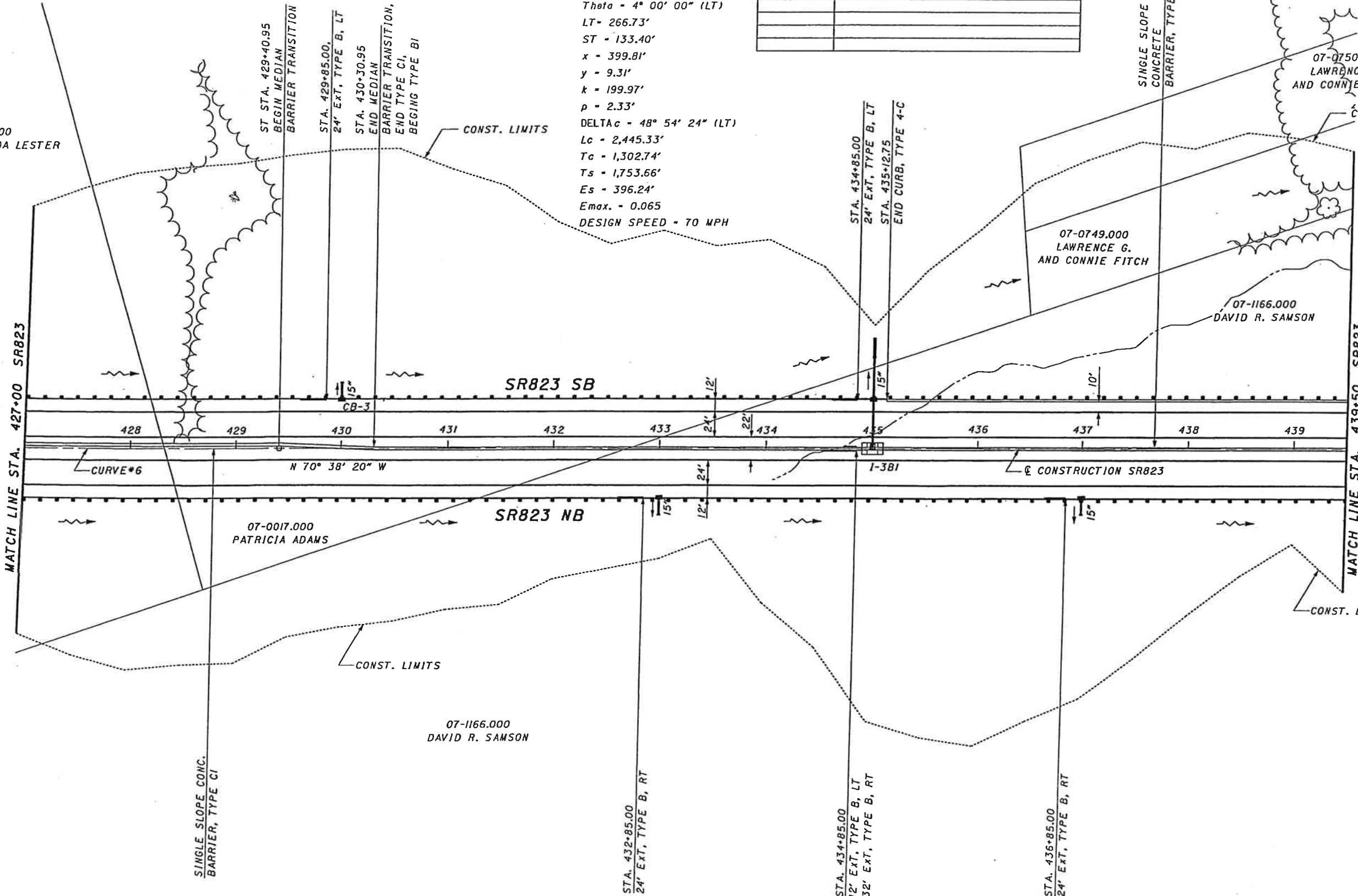
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	DRAINAGE PROFILES

07-1396.000
WILLIAM AND LINDA LESTER

07-1396.000
WILLIAM AND LINDA LESTER

MATCH LINE STA. 427+00 SR823

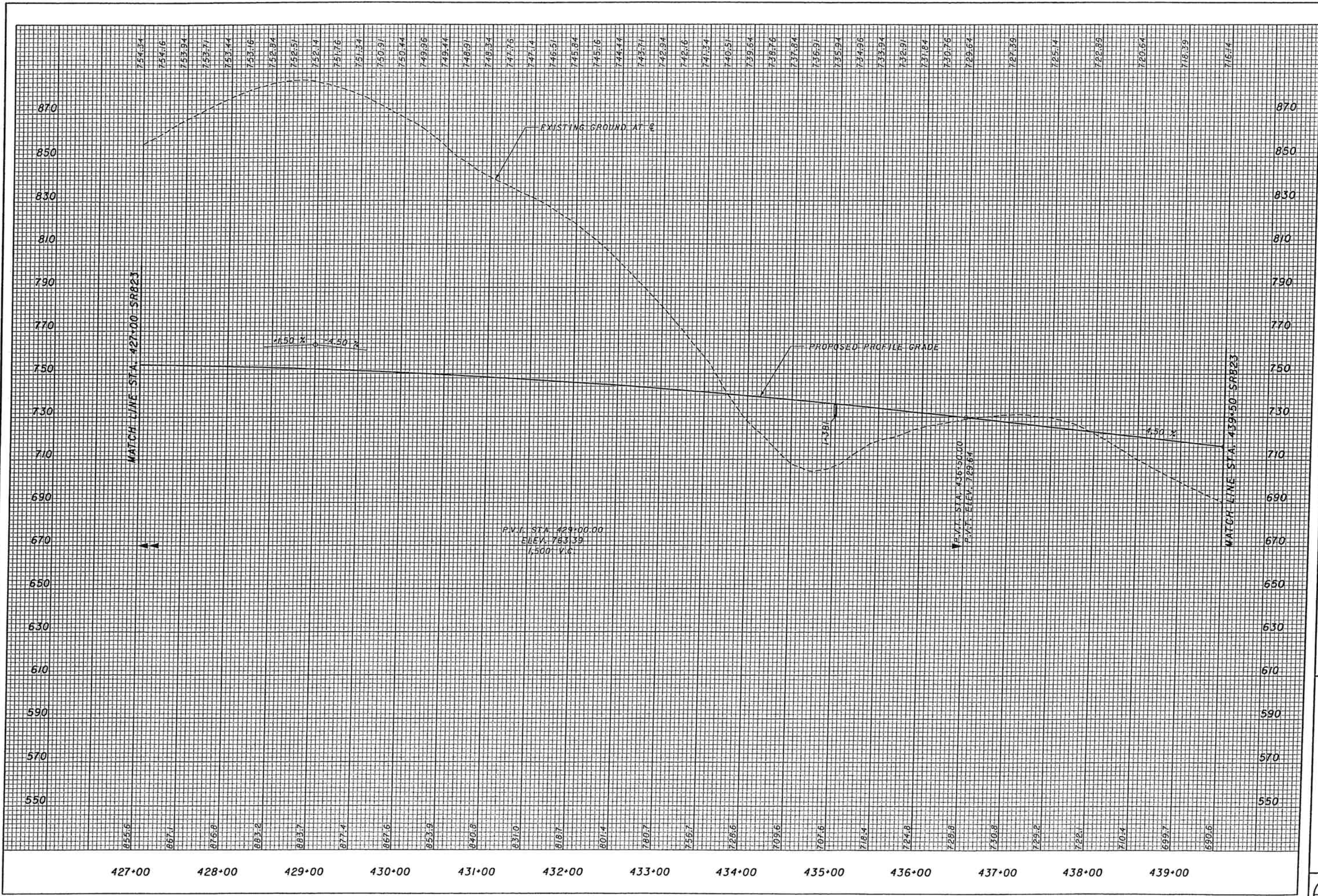
MATCH LINE STA. 439+50 SR823



CALCULATED
DL/CAS
CHECKED
RW

PLAN - SR823
 STA. 427+00.00 TO STA. 439+50.00

SCI-823-6.81

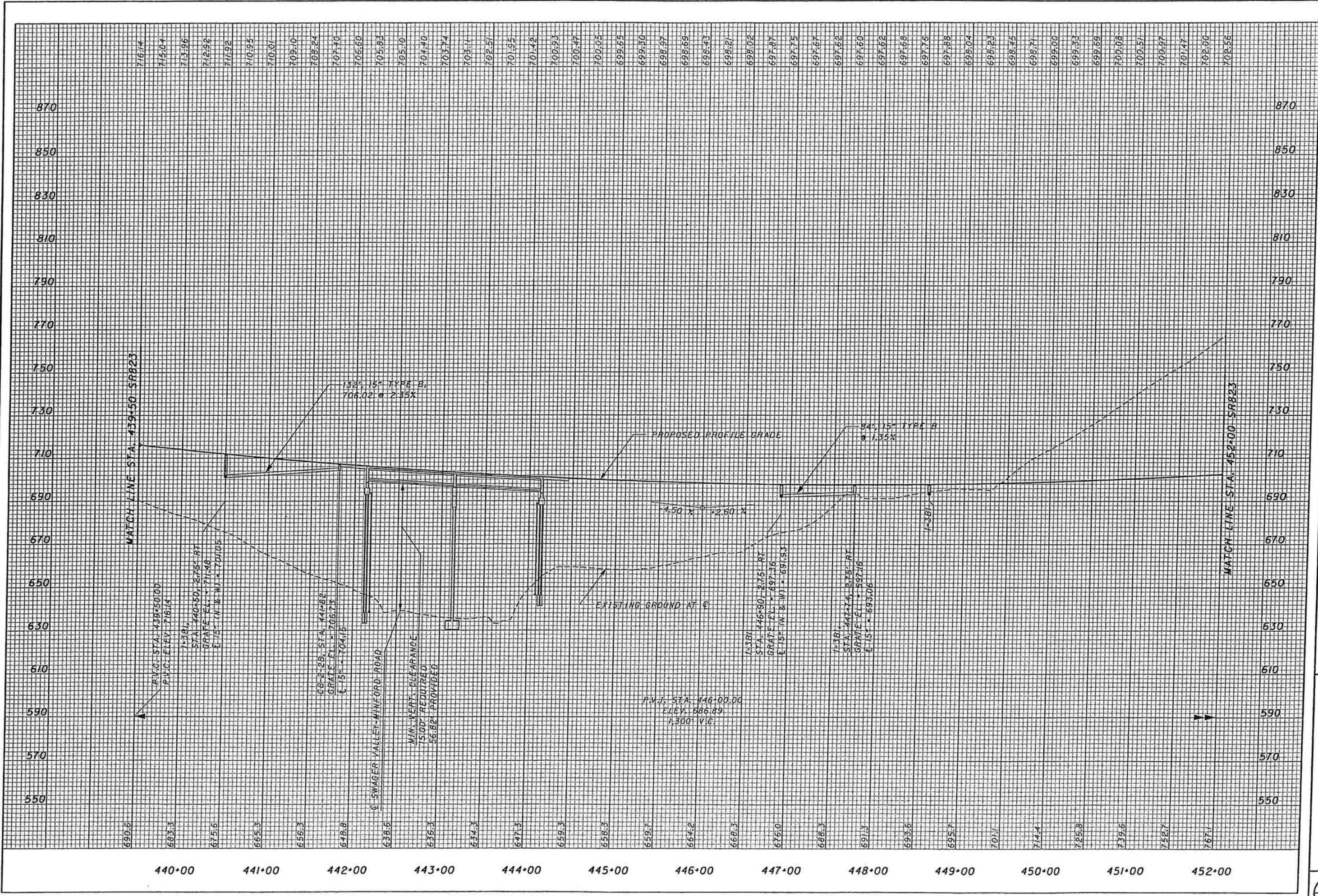


CALCULATED
 J.F.A./C.A.S.
 CHECKED
 R.H.

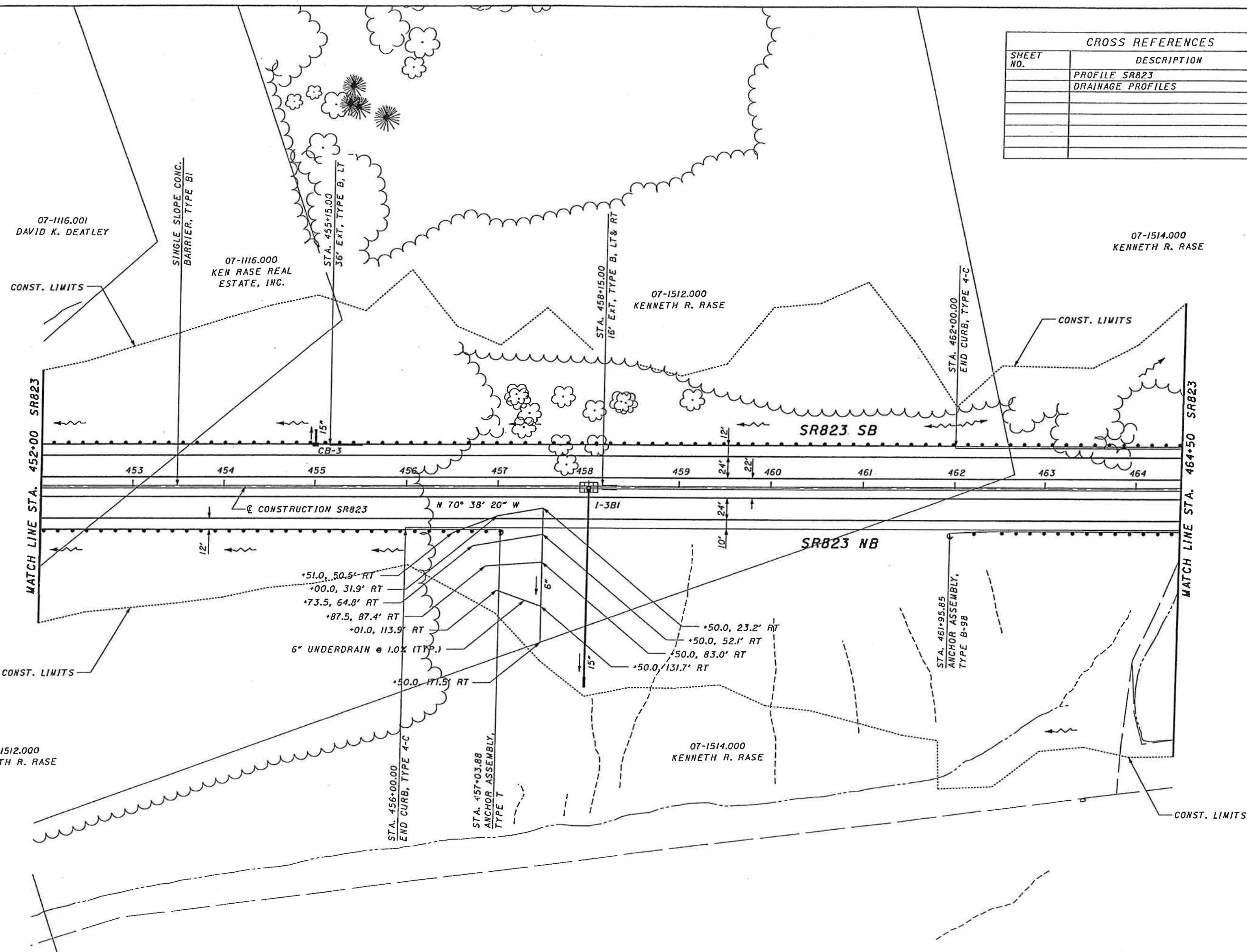
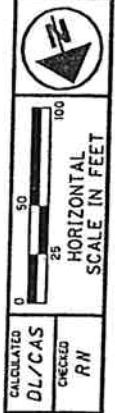
PROFILE - SR823
STA. 427+00 TO STA. 439+50

SCI-823-6.81

46

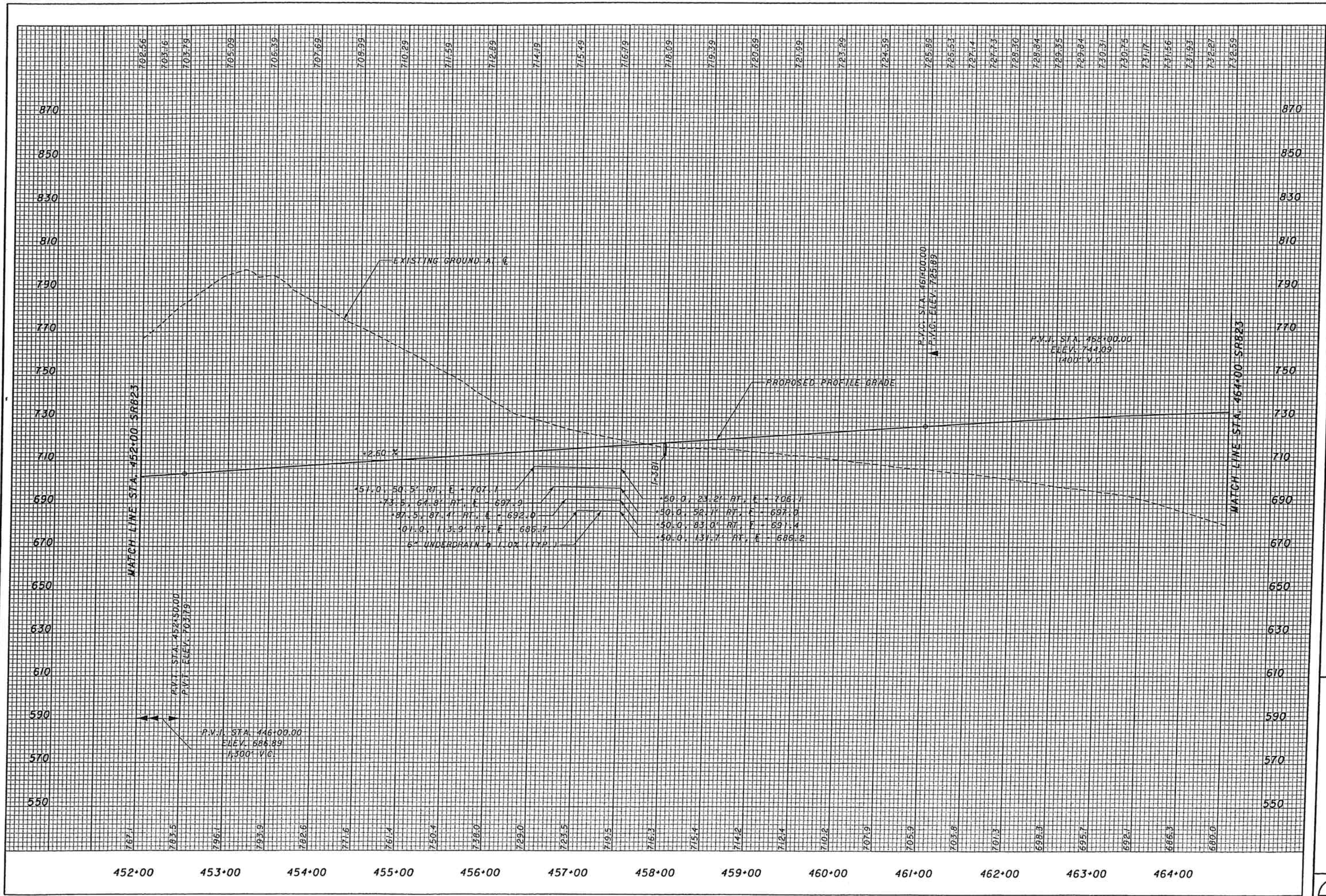


CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	DRAINAGE PROFILES



PLAN - SR823
 STA. 452+00.00 TO STA. 464+50.00

SCI-823-6.81



CALCULATED
 JFA/CAS
 CHECKED
 RN

PROFILE - SR823
STA. 452+00 TO STA. 464+00

SCI-823-6.81



50

07-1514.00
RASE, KENNETH R.

SR823 CURVE # 7

P.I. STA. - 482+11.90 x - 224.99'
 DELTA - 21° 42' 25" (RT) y - 1.47'
 Dc - 1° 00' 00" k - 112.50'
 R - 5,729.58' p - 0.37'
 Ls - 225.00' DELTA_c - 19° 27' 25" (RT)
 Theta - 1° 07' 30" (RT) Lc - 1,945.70'
 LT 150.00' Tc - 982.31'
 ST - 75.00' Ts - 1,211.09'
 Es - 104.73'
 Emax. - 0.036
 DESIGN SPEED - 70 MPH

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

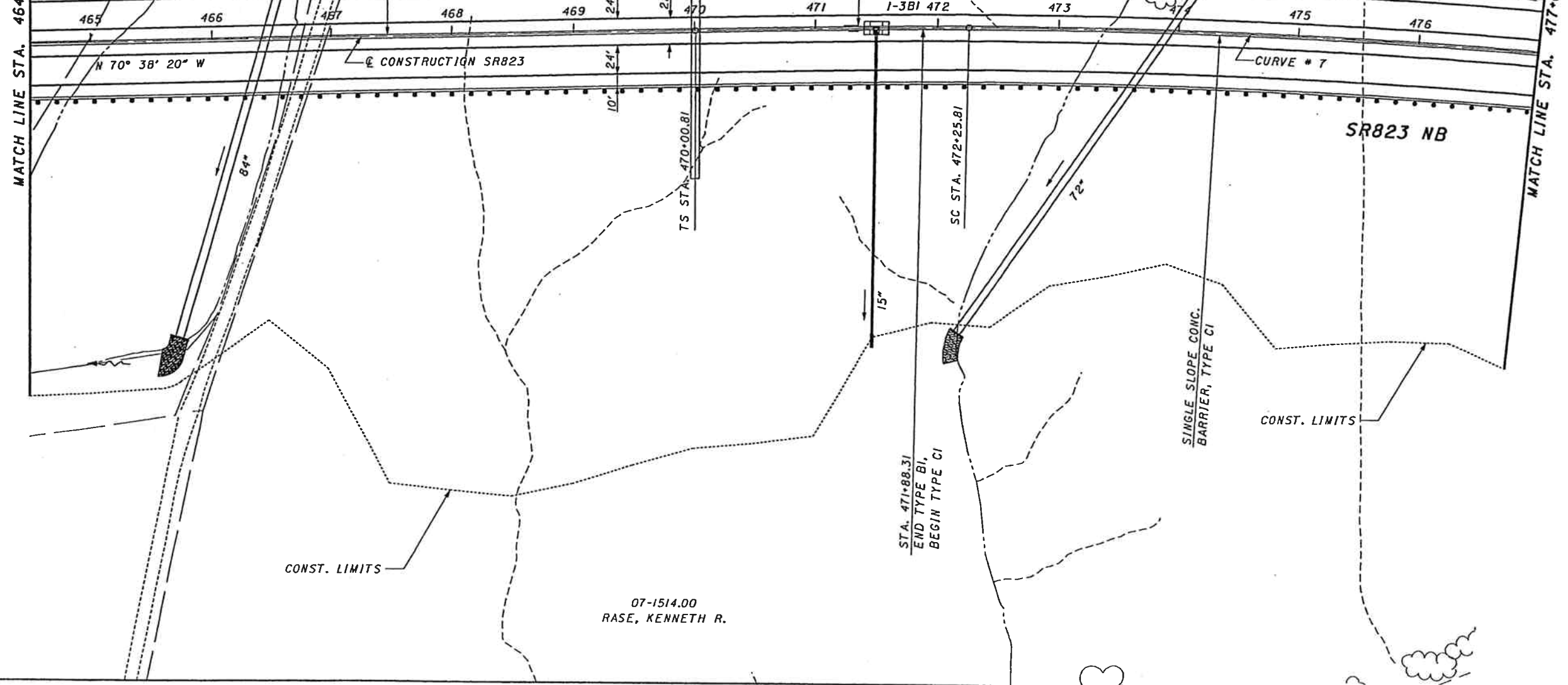


 HORIZONTAL SCALE IN FEET
 CALCULATED BY: DL/CAS
 CHECKED BY: RH

CONST. LIMITS

CONST. LIMITS

MATCH LINE STA. 464+50 SR823

MATCH LINE STA. 477+00 SR823



07-1514.00
RASE, KENNETH R.

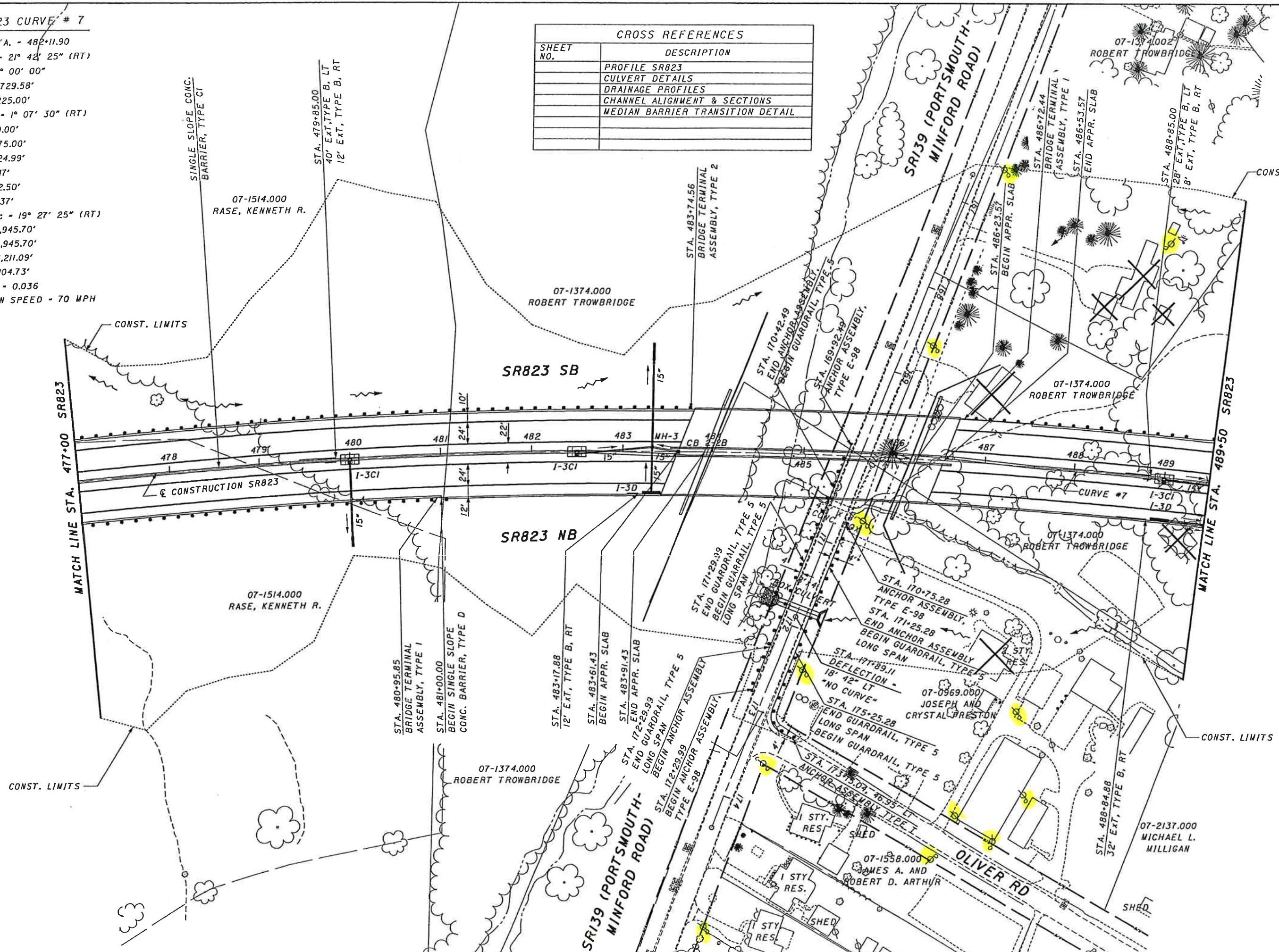
PLAN - SR823
 STA. 464+50.00 TO STA. 477+00.00

SCI-823-6.81

SR823 CURVE # 7

P.I. STA. - 482+11.90
 DELTA - 2° 42' 25" (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 - 19° 27' 25" (RT)
 Lc - 1,945.70'
 Tc - 1,945.70'
 Ts - 1,211.09'
 Es - 104.73'
 Emax. - 0.036
 DESIGN SPEED - 70 MPH

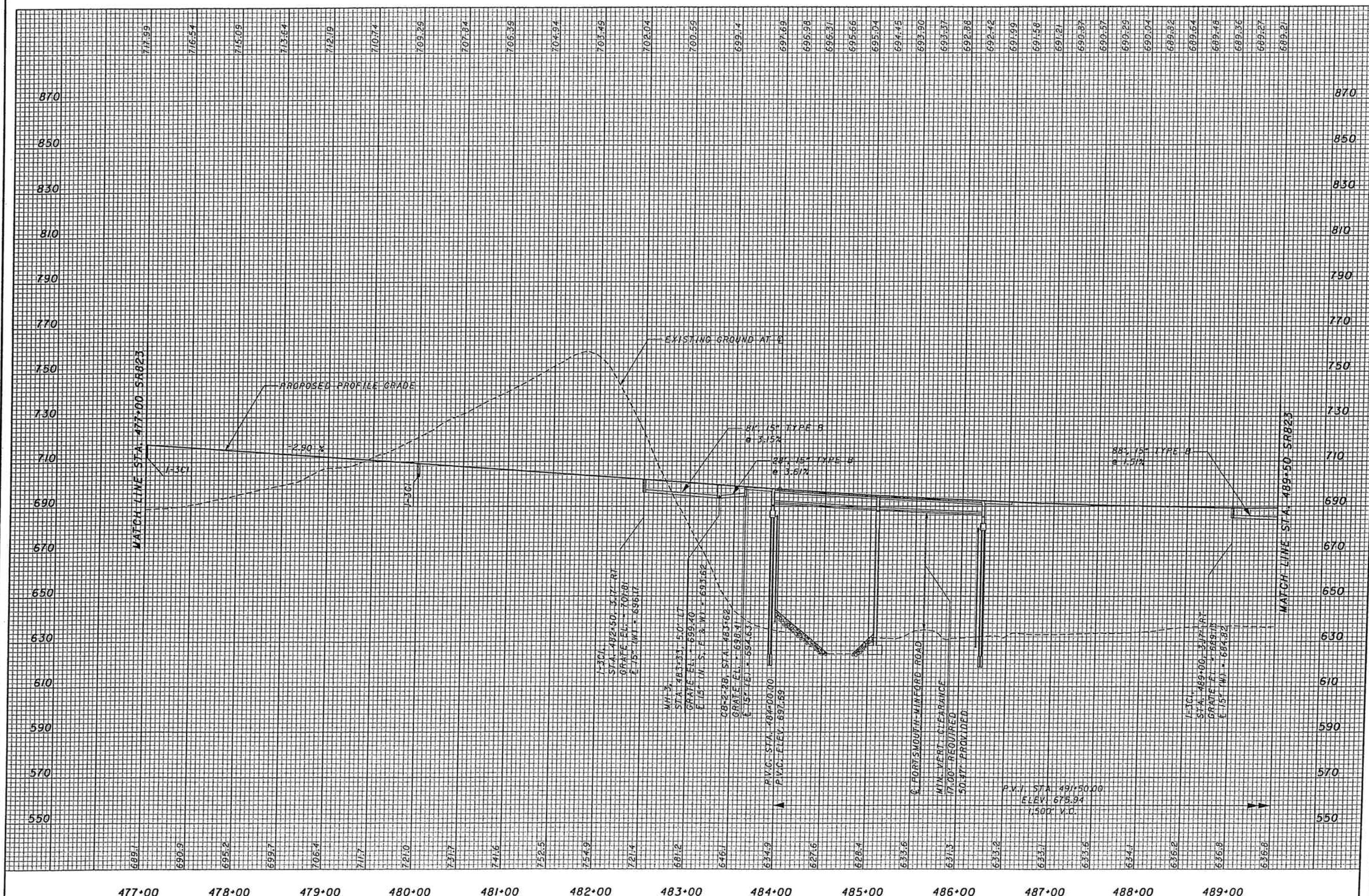
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	CULVERT DETAILS
	DRAINAGE PROFILES
	CHANNEL ALIGNMENT & SECTIONS
	MEDIAN BARRIER TRANSITION DETAIL



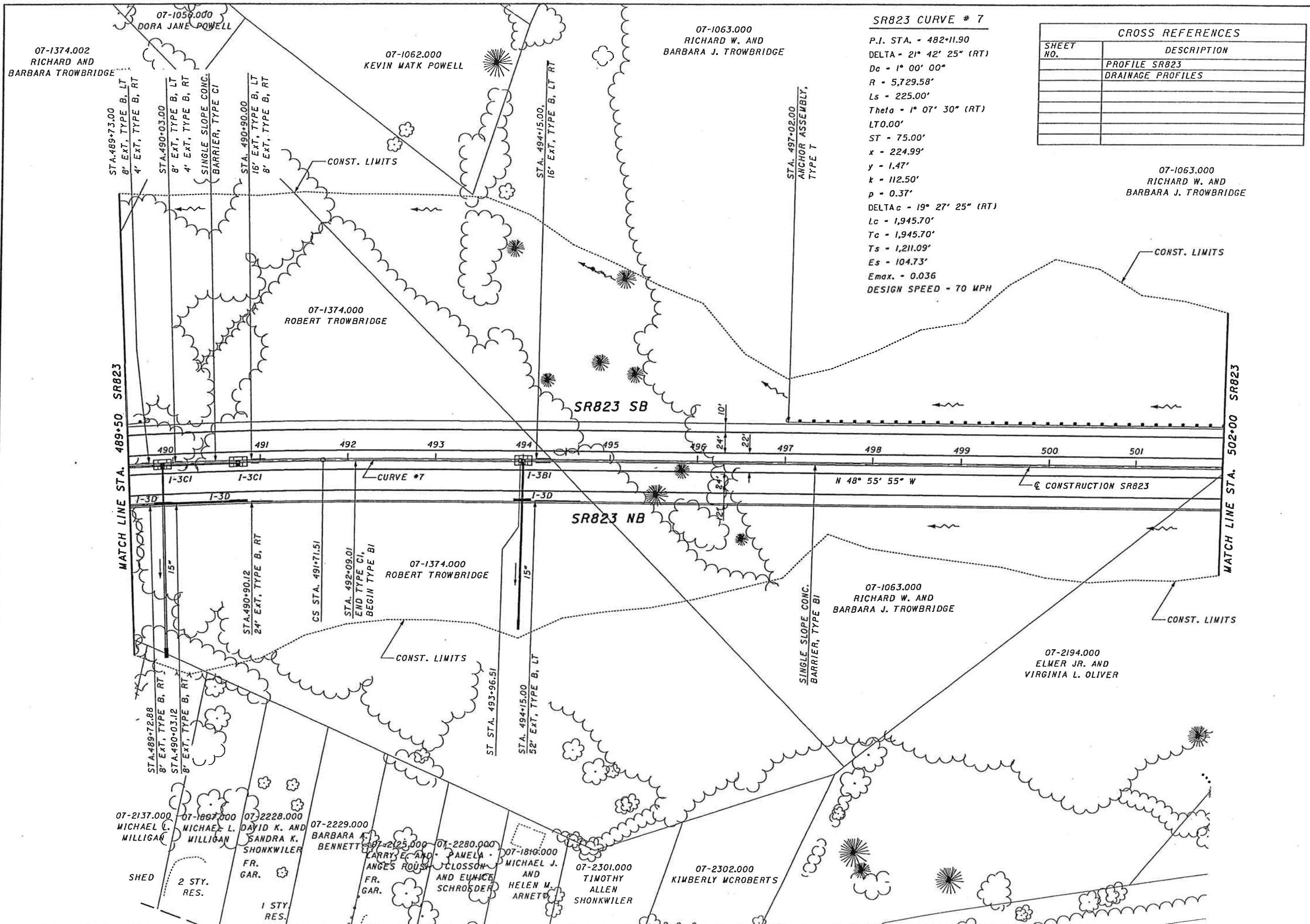
0 50 100
 HORIZONTAL SCALE IN FEET

CALCULATED DL/CAS
 CHECKED RN

PLAN - SR823
 STA. 477+00.00 TO STA. 489+50.00





477+00 478+00 479+00 480+00 481+00 482+00 483+00 484+00 485+00 486+00 487+00 488+00 489+00



SR823 CURVE # 7

P.I. STA. - 482+11.90
 DELTA - 21° 42' 25" (RT)
 Dc - 1° 00' 00"
 R - 5,729.58'
 Ls - 225.00'
 Theta - 1° 07' 30" (RT)
 LT0.00'
 ST - 75.00'
 x - 224.99'
 y - 1.47'
 k - 112.50'
 p - 0.37'
 DELTA_c - 19° 27' 25" (RT)
 Lc - 1,945.70'
 Tc - 1,945.70'
 Ts - 1,211.09'
 Es - 104.73'
 Emax. - 0.036
 DESIGN SPEED - 70 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	DRAINAGE PROFILES



 HORIZONTAL SCALE IN FEET
 CALCULATED DL/CAS
 CHECKED RN

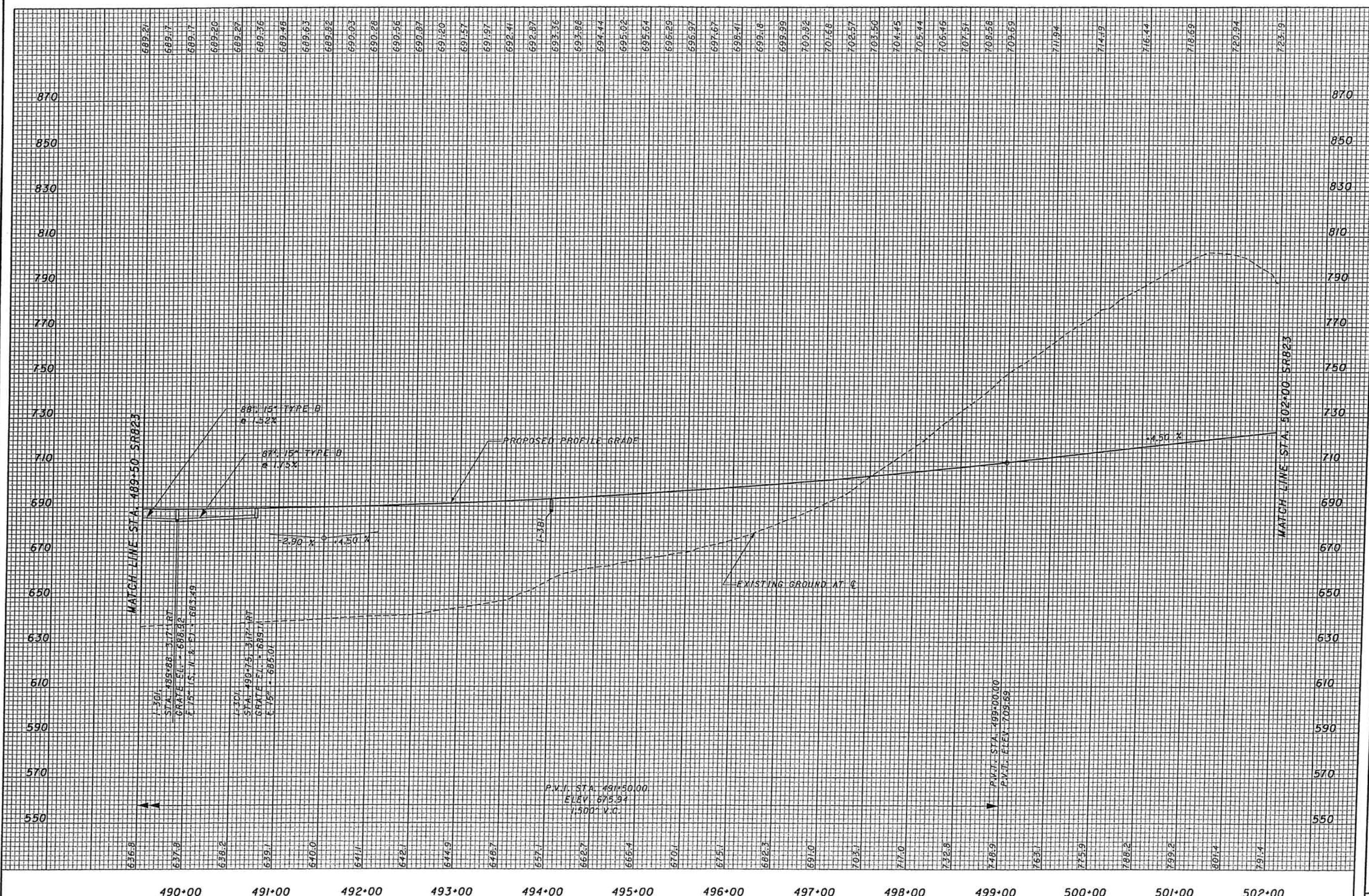
07-1063.000
 RICHARD W. AND
 BARBARA J. TROWBRIDGE

07-1374.000
 ROBERT TROWBRIDGE

07-1063.000
 RICHARD W. AND
 BARBARA J. TROWBRIDGE

07-2194.000
 ELMER JR. AND
 VIRGINIA L. OLIVER

PLAN - SR823
STA. 489+50.00 TO STA. 502+00.00
SCI-823-6.81
 55



689.21
689.7
689.7
689.20
689.27
689.56
689.48
689.63
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636.8
637.8
638.2
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657.1
662.7
666.4
670.1
675.1
682.3
691.0
703.1
717.0
732.8
748.9
765.1
775.9
788.2
799.2
801.4
791.4

490+00 491+00 492+00 493+00 494+00 495+00 496+00 497+00 498+00 499+00 500+00 501+00 502+00

CALCULATED JFA/CAS
 CHECKED RN
 PROFILE- SR823
 STA. 489+50 TO STA. 502+00
 SCI-823-6.81
 56

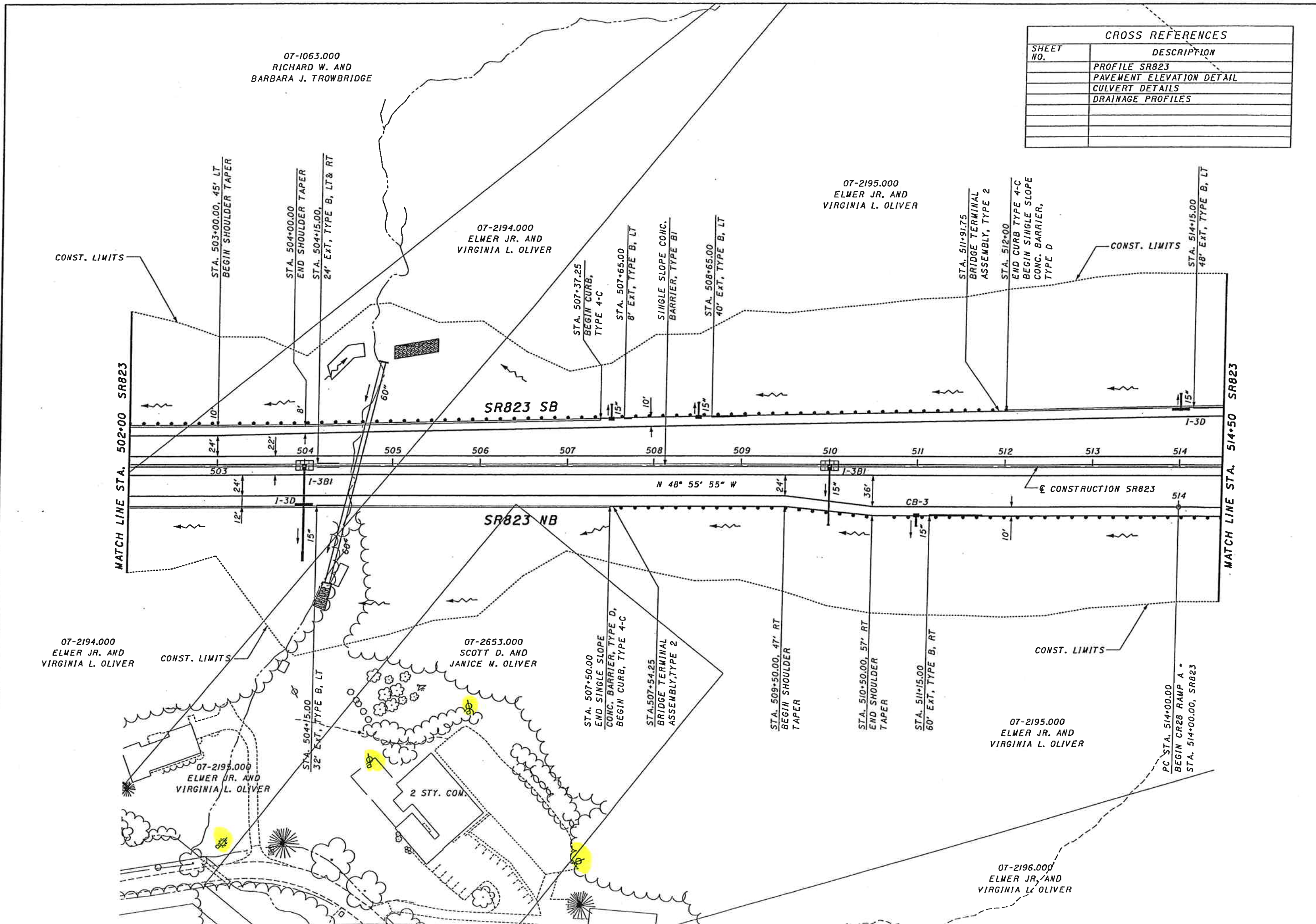
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	PAVEMENT ELEVATION DETAIL
	CULVERT DETAILS
	DRAINAGE PROFILES

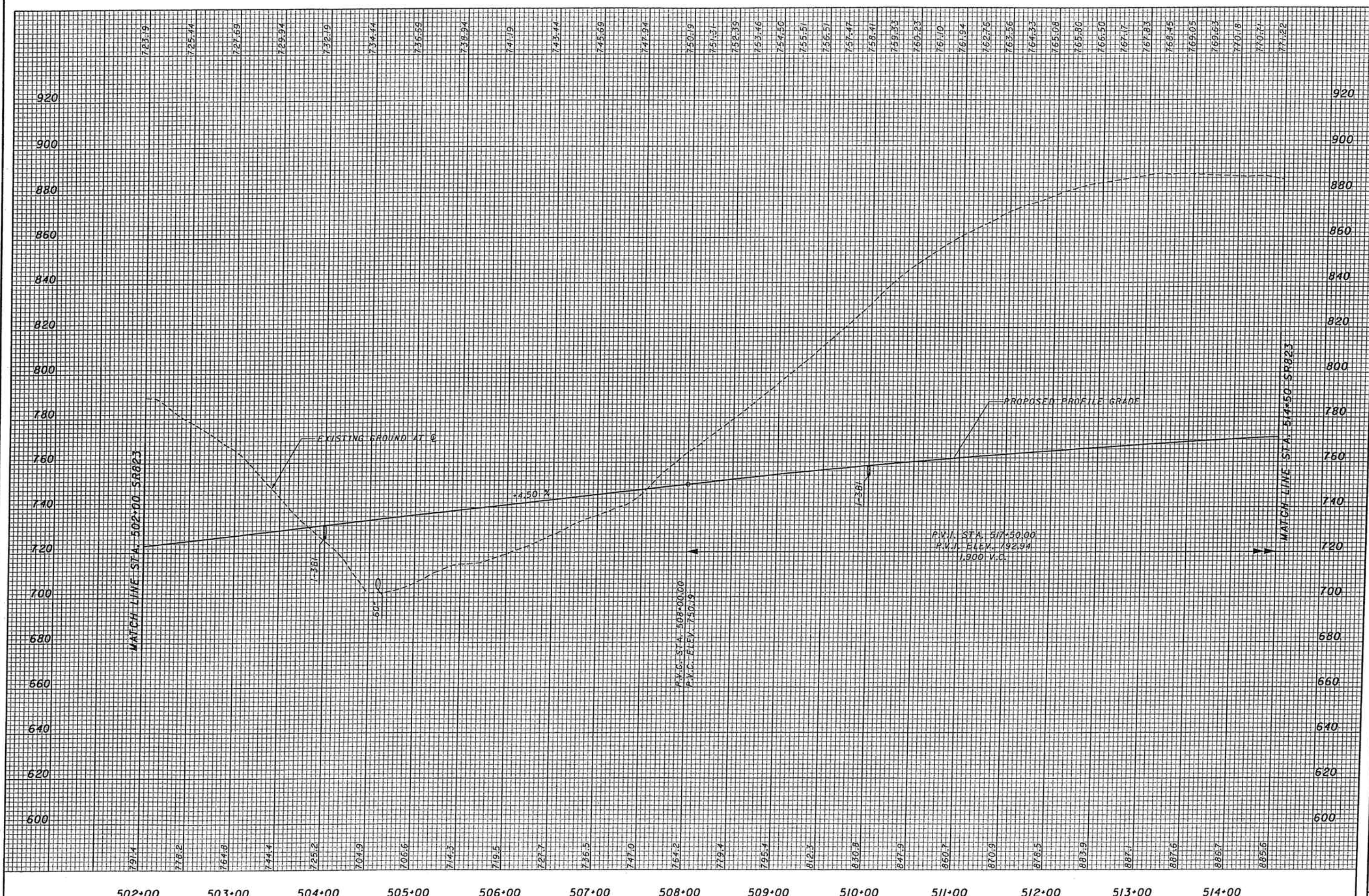


CALCULATED
DL/CAS
CHECKED
RY

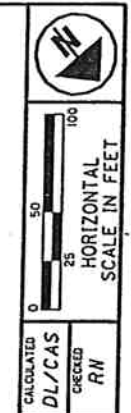
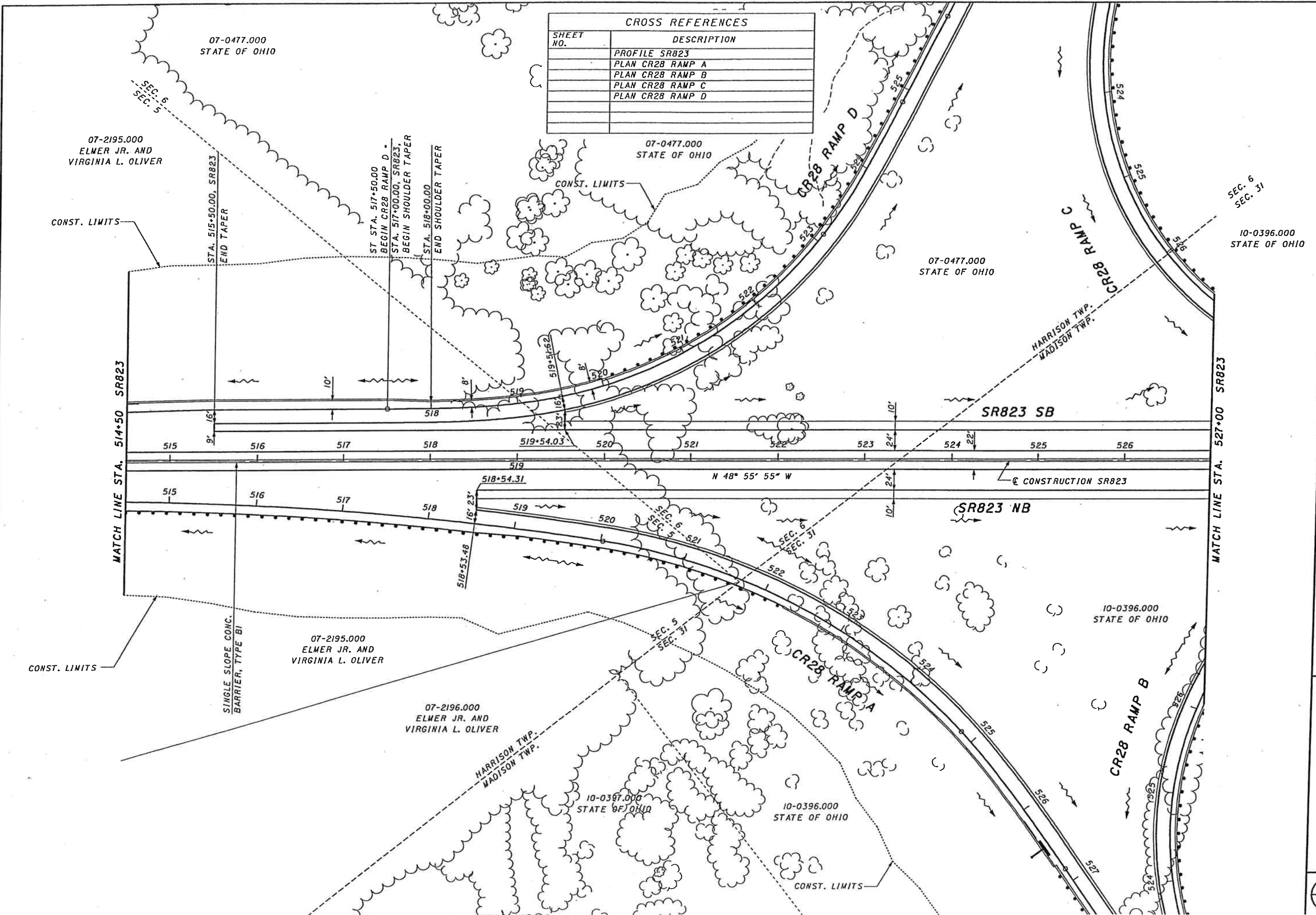
PLAN - SR823
STA. 502+00.00 TO STA. 514+50.00

SCI-823-6.81

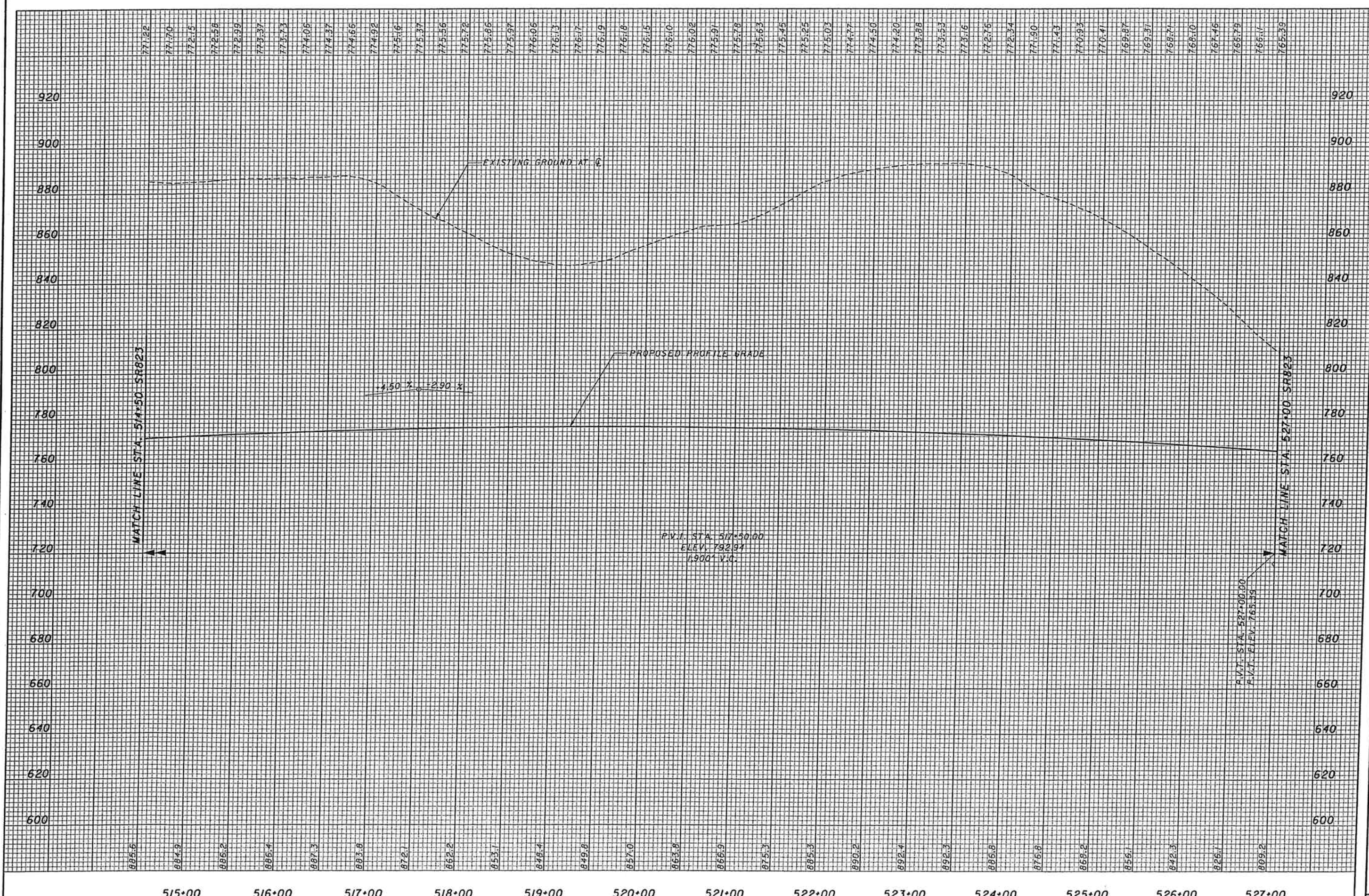




CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE SR823
	PLAN CR28 RAMP A
	PLAN CR28 RAMP B
	PLAN CR28 RAMP C
	PLAN CR28 RAMP D



CALCULATED DL/CAS
 CHECKED RW
 HORIZONTAL SCALE IN FEET
 SEC. 6 SEC. 31
 10-0396.000 STATE OF OHIO
 HARRISON TWP. MADISON TWP.
 07-0477.000 STATE OF OHIO
 07-2195.000 ELMER JR. AND VIRGINIA L. OLIVER
 07-2196.000 ELMER JR. AND VIRGINIA L. OLIVER
 10-0397.000 STATE OF OHIO
 10-0396.000 STATE OF OHIO
 MATCH LINE STA. 514+50 SR823
 MATCH LINE STA. 527+00 SR823
 PLAN - SR823
 STA. 514+50.00 TO STA. 527+00.00

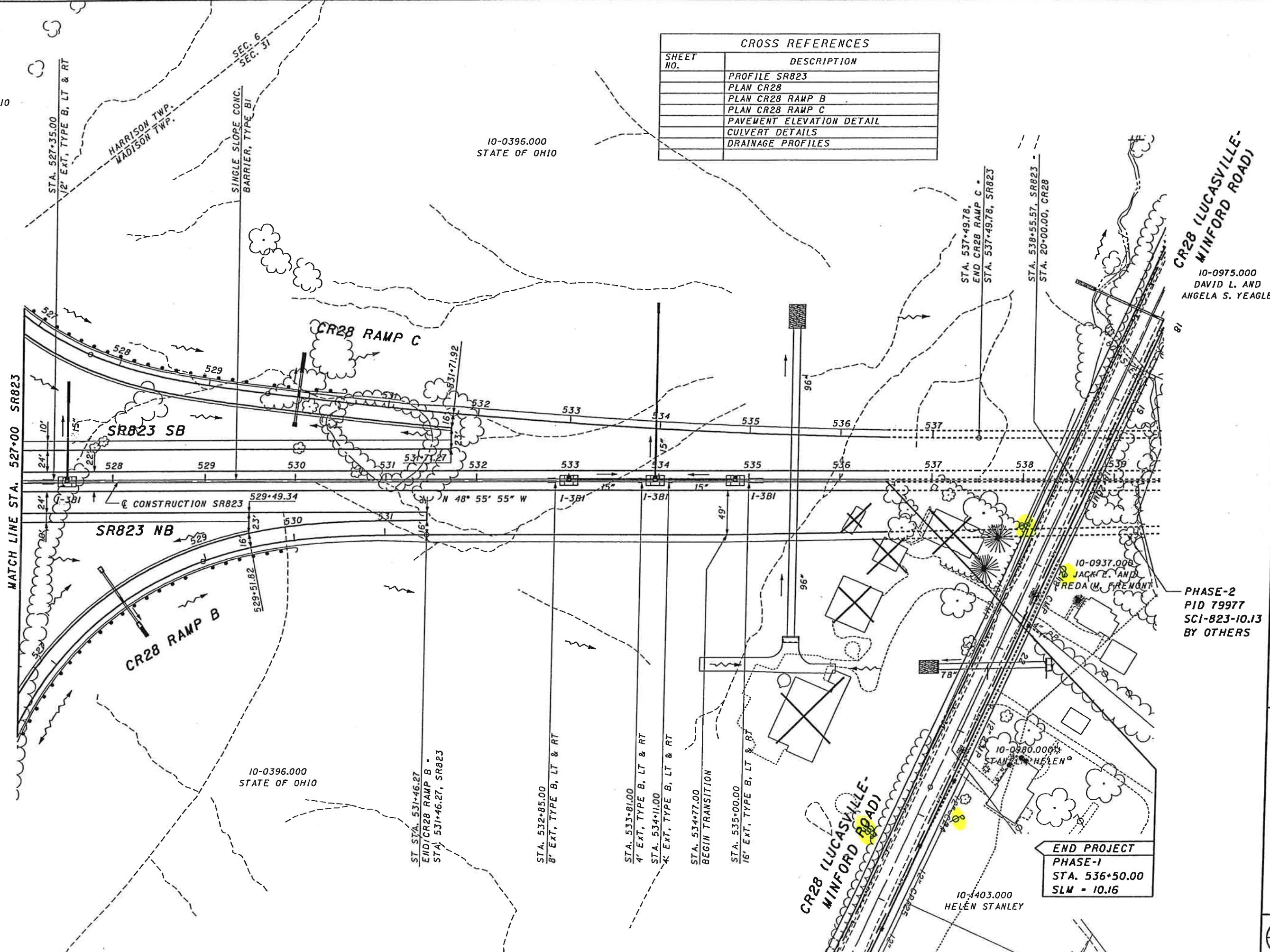


07-0477.000
STATE OF OHIO

10-0396.000
STATE OF OHIO

10-0396.000
STATE OF OHIO

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



10-0975.000
DAVID L. AND
ANGELA S. YEAGLE

10-0937.000
JACK E. AND
FREDA M. FREMONT

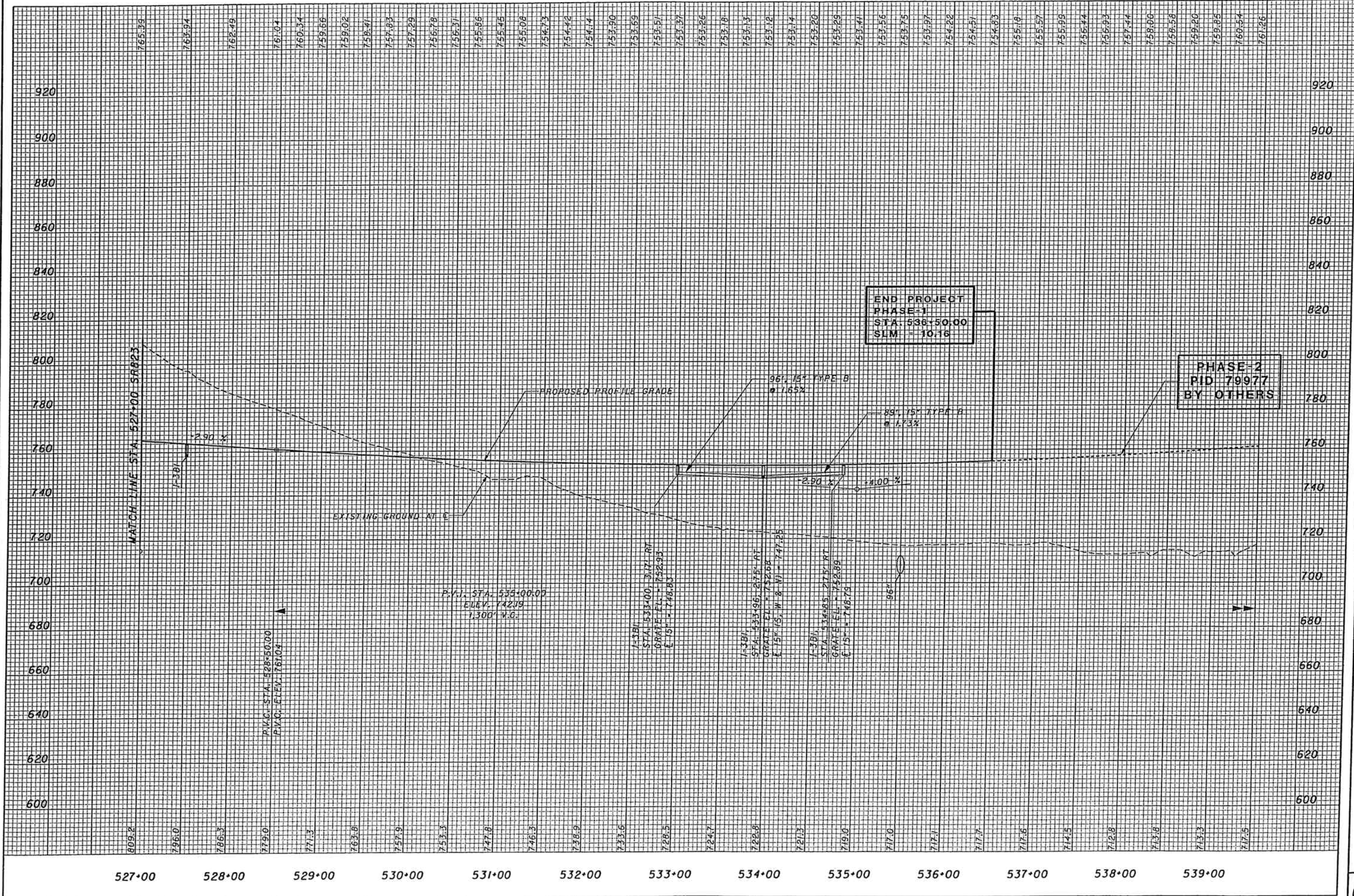
PHASE-2
PID 79977
SCI-823-10.13
BY OTHERS

10-0380.000
STANLEY HELEN

10-1403.000
HELEN STANLEY

SCI-823-6.81

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



809.2 765.99
 796.0 763.94
 786.3 762.49
 779.0 761.04
 771.3 760.34
 763.8 759.66
 757.9 759.02
 753.3 758.41
 747.8 757.83
 746.3 757.29
 738.9 756.78
 733.6 756.31
 728.5 755.86
 724.7 755.45
 722.8 755.08
 721.3 754.73
 719.0 754.42
 717.0 754.14
 717.1 753.90
 717.5 753.69
 717.6 753.51
 714.5 753.37
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 712.3 753.18
 711.5 753.13
 711.1 753.12
 710.0 753.14
 709.0 753.20
 707.0 753.29
 706.0 753.41
 705.0 753.56
 704.0 753.75
 703.0 753.97
 702.0 754.22
 701.0 754.51
 700.0 754.83
 699.0 755.19
 698.0 755.57
 697.0 755.99
 696.0 756.44
 695.0 756.93
 694.0 757.44
 693.0 758.00
 692.0 758.58
 691.0 759.20
 690.0 759.85
 689.0 760.54
 688.0 761.26

527+00 528+00 529+00 530+00 531+00 532+00 533+00 534+00 535+00 536+00 537+00 538+00 539+00

**END PROJECT
 PHASE-1
 STA. 536+50.00
 SLM - 10.16**

**PHASE-2
 PID 79977
 BY OTHERS**

CALCULATED
 JFA/CAS
 CHECKED
 RH

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

SCI-823-6.81

07-0893.001
ROBERT R. AND ROBIN BOUTS

07-0804.000
GERTRUDE B. MCKENZIE
TRUSTEE OF GERTRUDE
B. MCKENZIE REVOCABLE TRUST

CURVE # TR234 RAMP A - 1

P.I. STA. - 393+64.93
DELTA - 5° 51' 12" (RT)
Dc - 0° 30' 00"
R - 1,459.16'
T - 585.85'
L - 1,170.68'
E - 14.95'
Emax. - NORMAL CROWN
DESIGN SPEED - 60 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE TR234 RAMP A
	PLAN SR823
	PLAN TR234
	PLAN TR234 RAMP B
	PLAN SR335
	INTERSECTION DETAIL



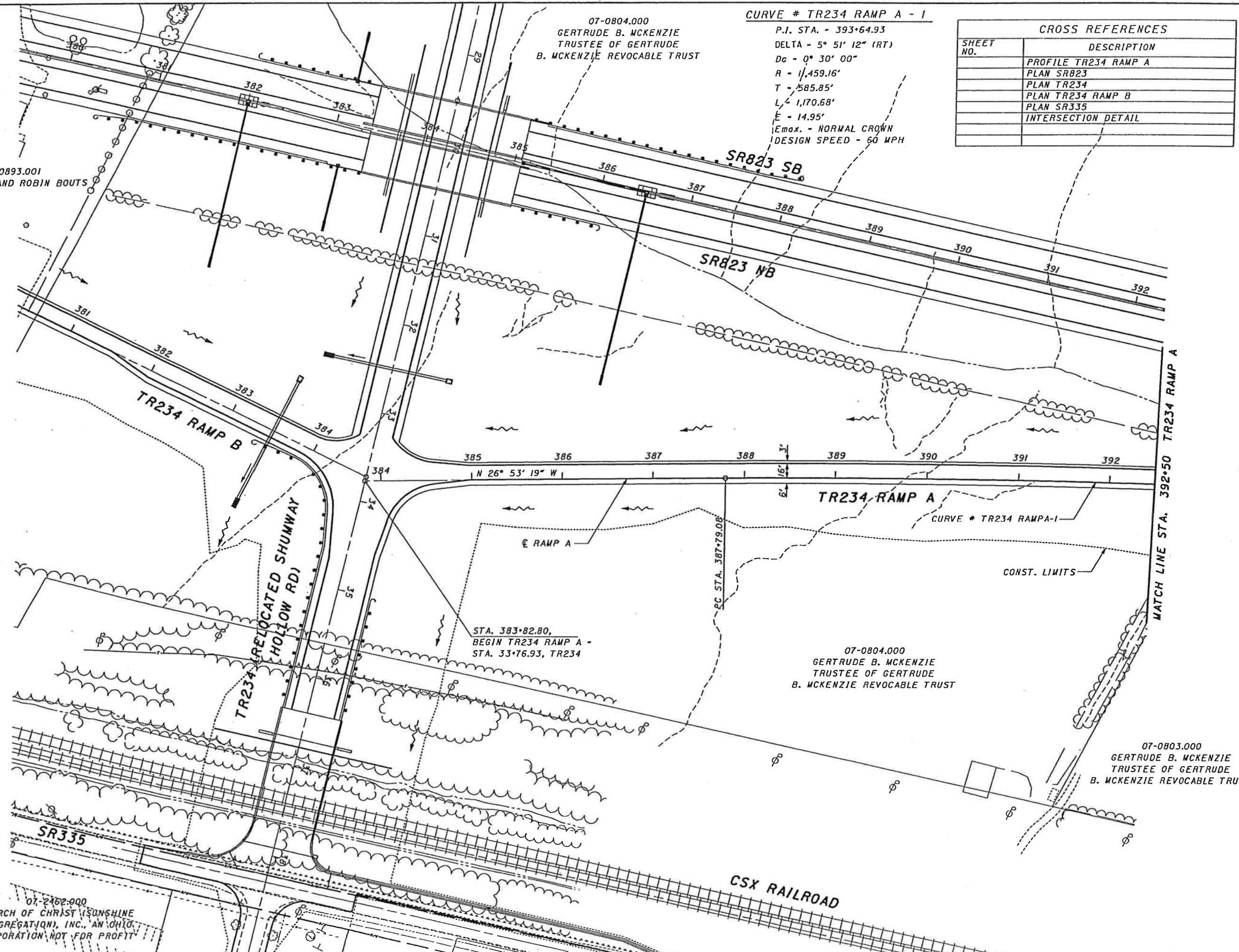
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HORIZONTAL
SCALE IN FEET

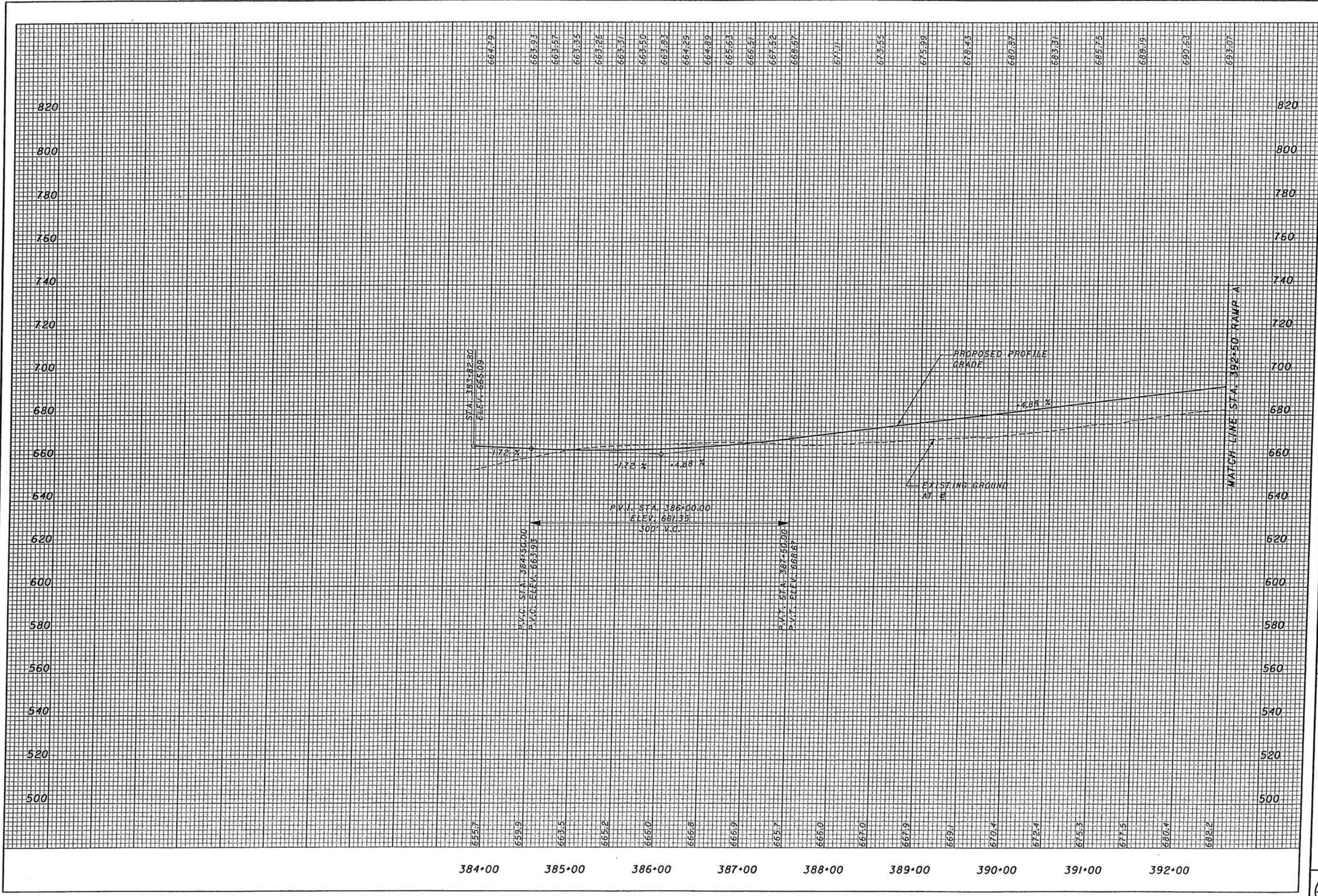
CALCULATED DL
CHECKED RN

PLAN - TOWNSHIP ROAD 234 RAMP A
STA. 383+82.82 TO STA. 392+50.00

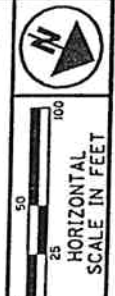
SCI-823-6.81

07-2462.000
CHURCH OF CHRIST (SUNSHINE
CONGREGATION), INC., AN OHIO
CORPORATION, NOT FOR PROFIT





CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE TR234 RAMP A
	PLAN SR823
	PLAN TR234 RAMP D
	PAVEMENT ELEVATION DETAIL

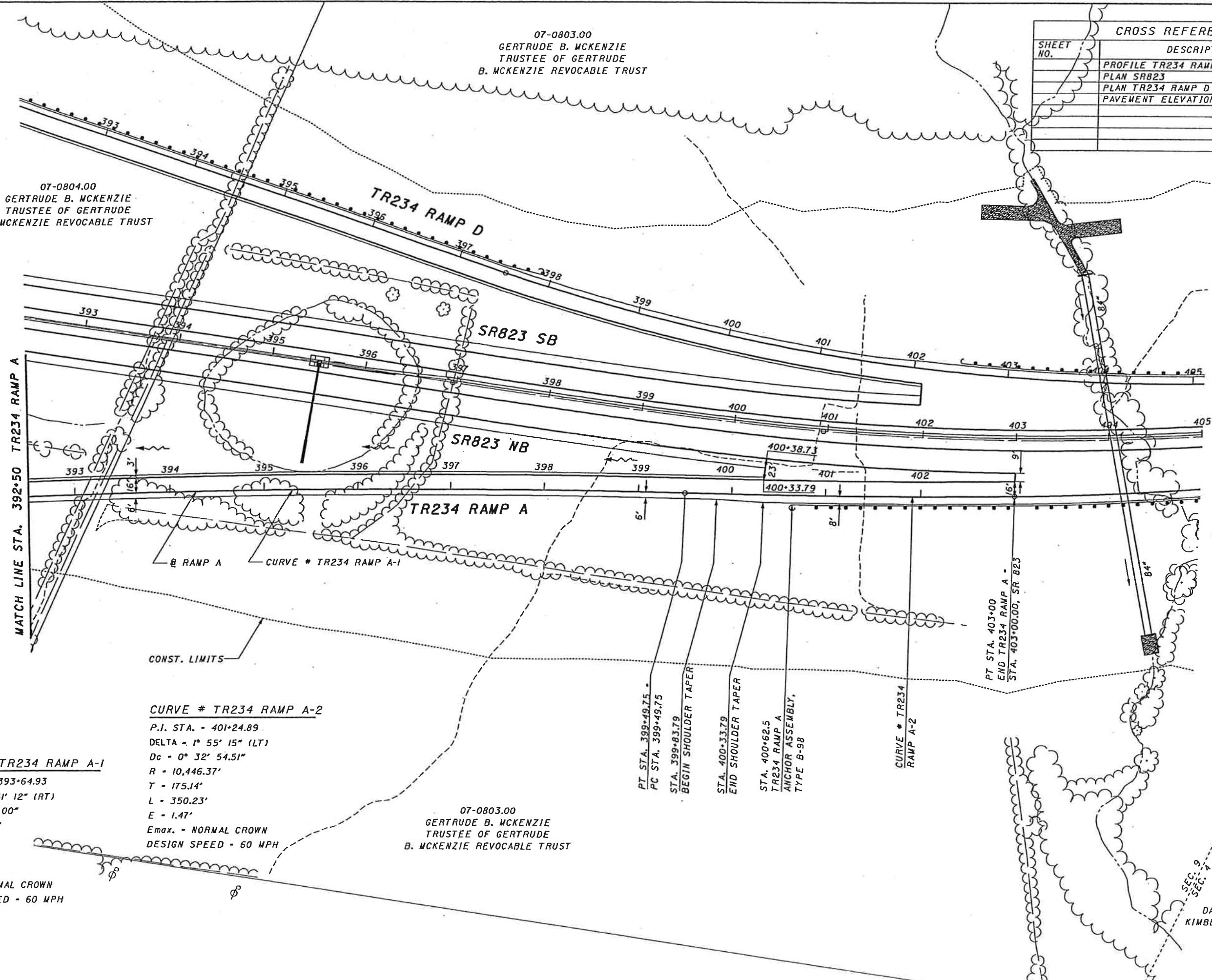


07-0804.00
GERTRUDE B. MCKENZIE
TRUSTEE OF GERTRUDE
B. MCKENZIE REVOCABLE TRUST

07-0803.00
GERTRUDE B. MCKENZIE
TRUSTEE OF GERTRUDE
B. MCKENZIE REVOCABLE TRUST

07-0803.00
GERTRUDE B. MCKENZIE
TRUSTEE OF GERTRUDE
B. MCKENZIE REVOCABLE TRUST

07-1335.00
DARREN C. AND
KIMBERLY S' JENKINS

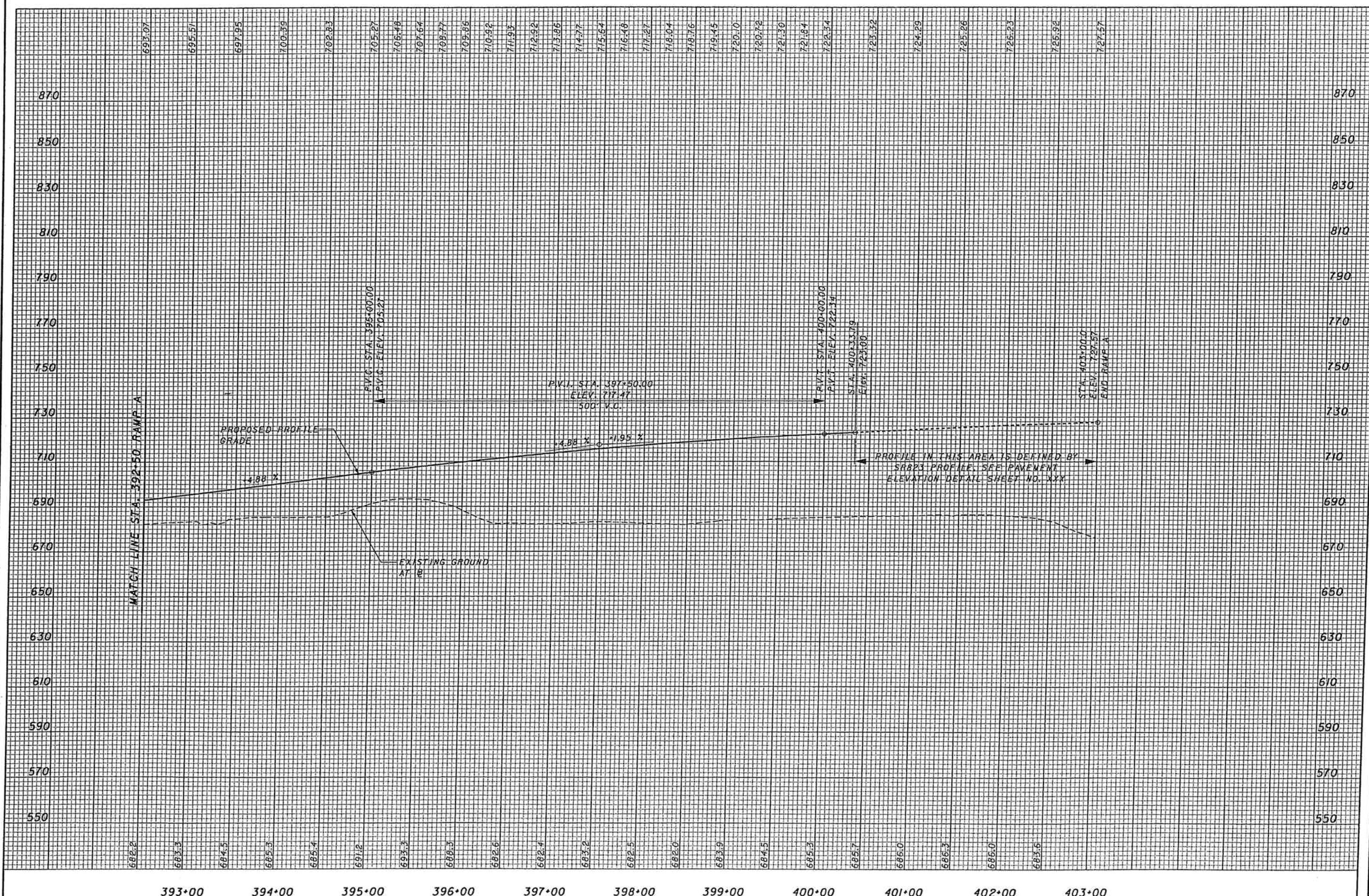


CURVE # TR234 RAMP A-1
P.I. STA. = 393+64.93
DELTA = 5° 51' 12" (RT)
Dc = 0° 30' 00"
R = 11,459.16'
T = 585.85'
L = 1,170.68'
E = 14.97'
Emax. = NORMAL CROWN
DESIGN SPEED = 60 MPH

CURVE # TR234 RAMP A-2
P.I. STA. = 401+24.89
DELTA = 1° 55' 15" (LT)
Dc = 0° 32' 54.51"
R = 10,446.37'
T = 175.14'
L = 350.23'
E = 1.47'
Emax. = NORMAL CROWN
DESIGN SPEED = 60 MPH

PLAN - TOWNSHIP ROAD 234 RAMP A
STA. 392+50.00 TO STA. 403+00.00

SCI-823-6.81



MATCH LINE STA. 392+50 RAMP A

699.07
695.51
697.95
700.39
702.83
705.27
706.78
707.67
708.77
709.86
710.92
711.93
712.92
713.86
714.77
715.64
716.48
717.27
718.04
718.76
719.45
720.10
720.72
721.30
721.84
722.34
723.32
724.29
725.26
726.23
726.92
727.57

682.2
683.3
684.5
685.3
685.4
691.2
693.3
688.3
682.6
682.4
683.2
682.5
682.0
683.9
684.5
685.3
685.7
686.0
686.3
686.0
683.6

393+00
394+00
395+00
396+00
397+00
398+00
399+00
400+00
401+00
402+00
403+00

SCI-823-6.81	PROFILE - TOWNSHIP ROAD 234 RAMP A STA. 392+50.00 TO STA. 403+00.00				
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CALCULATED					
JFA					
CHECKED					
RN					

07-0893.00
 BENNETT, ERIC D., BENNETT EVERET A.,
 JENNIFER BENTLEY,

CURVE # TR234 RAMP B-1

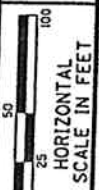
P.I. STA. - 371+73.52
 DELTA - 8° 05' 30" (RT)
 Dc - 1° 00' 00"
 R - 5,729.58'
 T - 405.26'
 L - 809.18'
 E - 14.31'
 Emox. - 0.029
 DESIGN SPEED - 60 MPH

CROSS REFERENCES

SHEET NO.	DESCRIPTION
	PROFILE TR234 RAMP B
	PLAN SR823
	PLAN TR234 RAMP C
	PAVEMENT ELEVATION DETAIL
	CULVERT DETAIL

07-0893.00
 EVERET A. BENNETT, JENNIFER BENTLEY,
 AND ERIC D. BENNETT

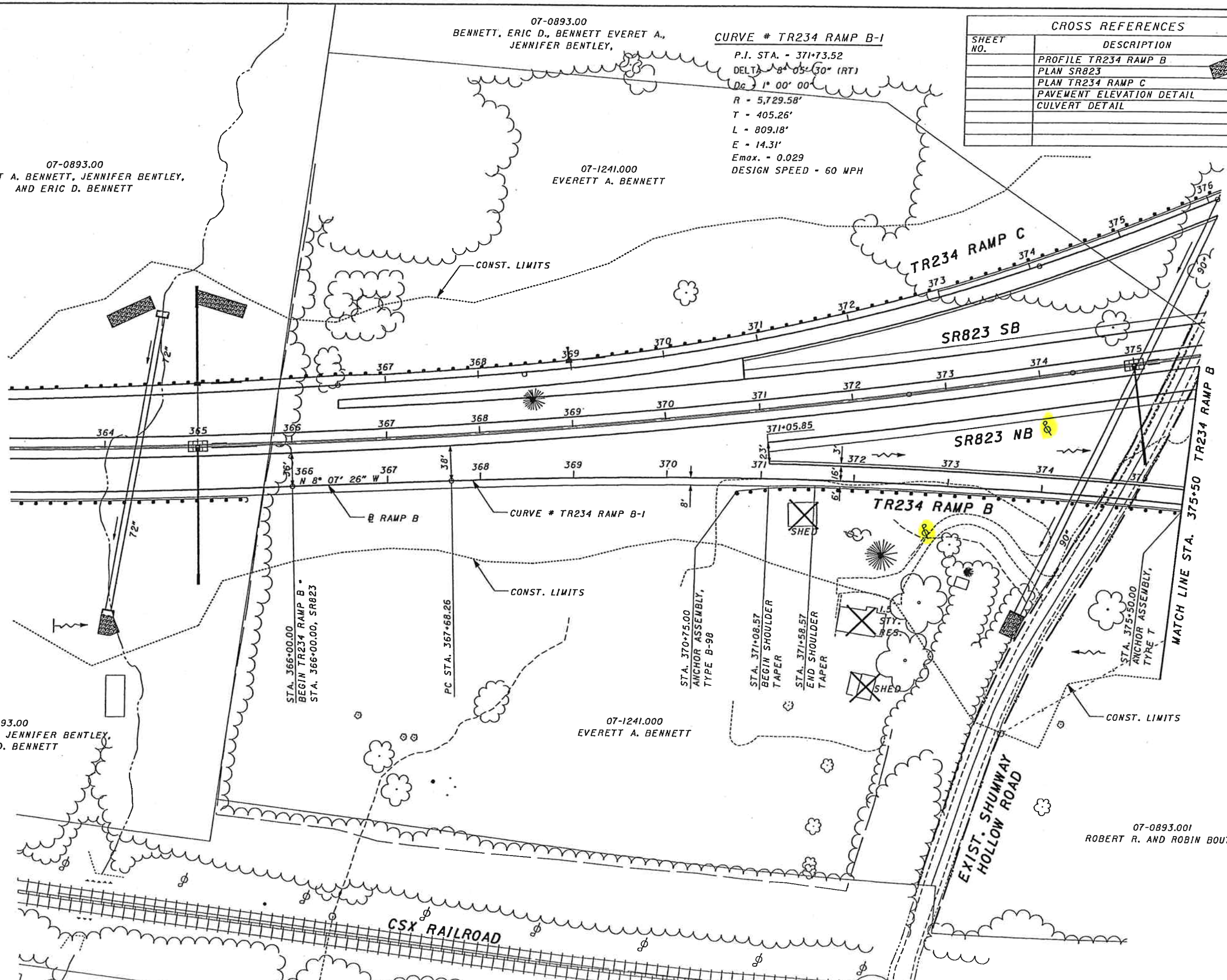
07-1241.000
 EVERETT A. BENNETT



CALCULATED DL
 CHECKED RN

PLAN - TOWNSHIP ROAD 234 RAMP B
 STA. 366+00.00 TO STA. 375+50.00

SCI-823-6.81



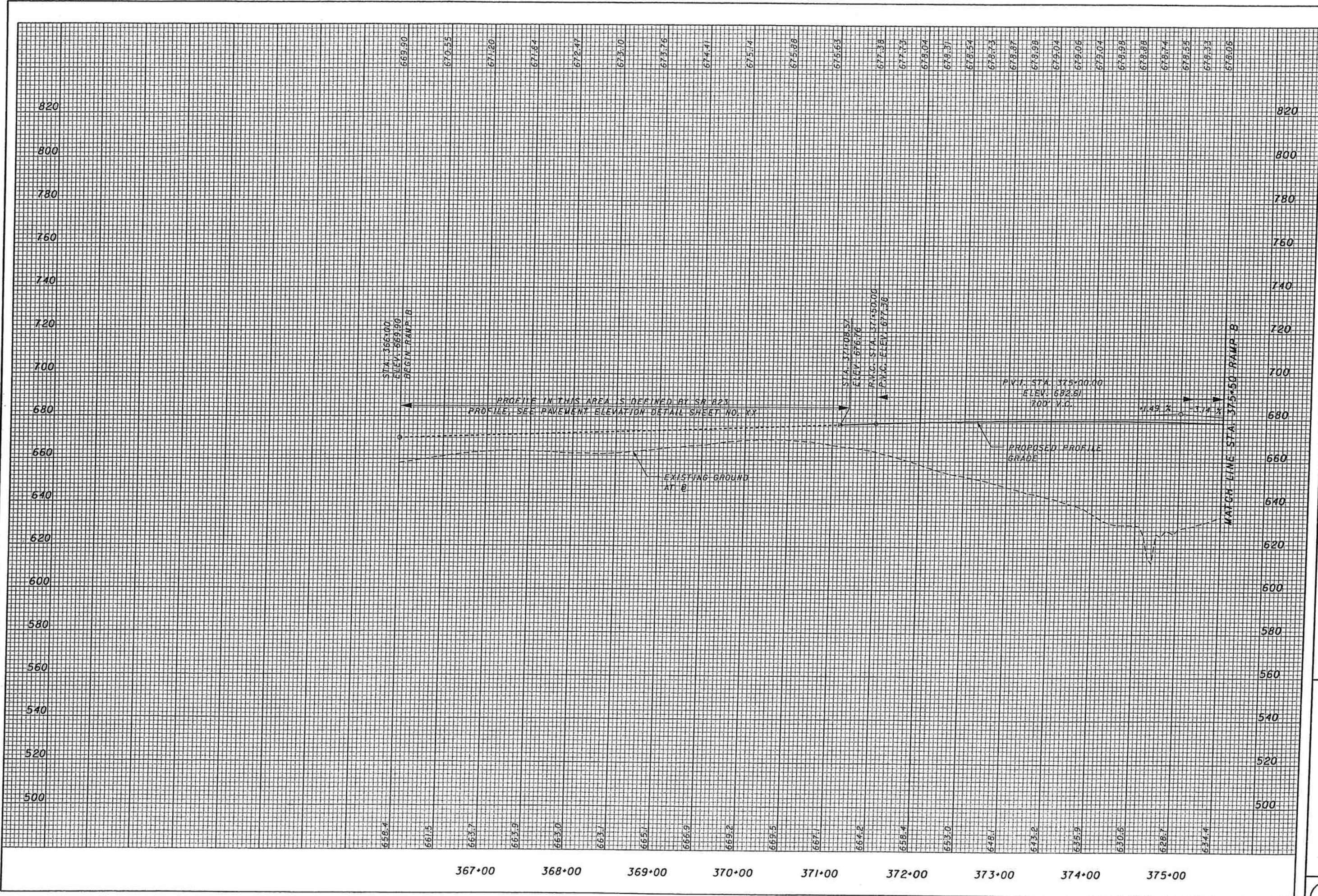
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 EVERET A. BENNETT, JENNIFER BENTLEY,
 AND ERIC D. BENNETT

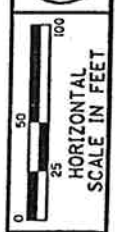
07-1241.000
 EVERETT A. BENNETT

07-0893.001
 ROBERT R. AND ROBIN BOUTS

CSX RAILROAD

EXIST. SHUMWAY
 HOLLOW ROAD

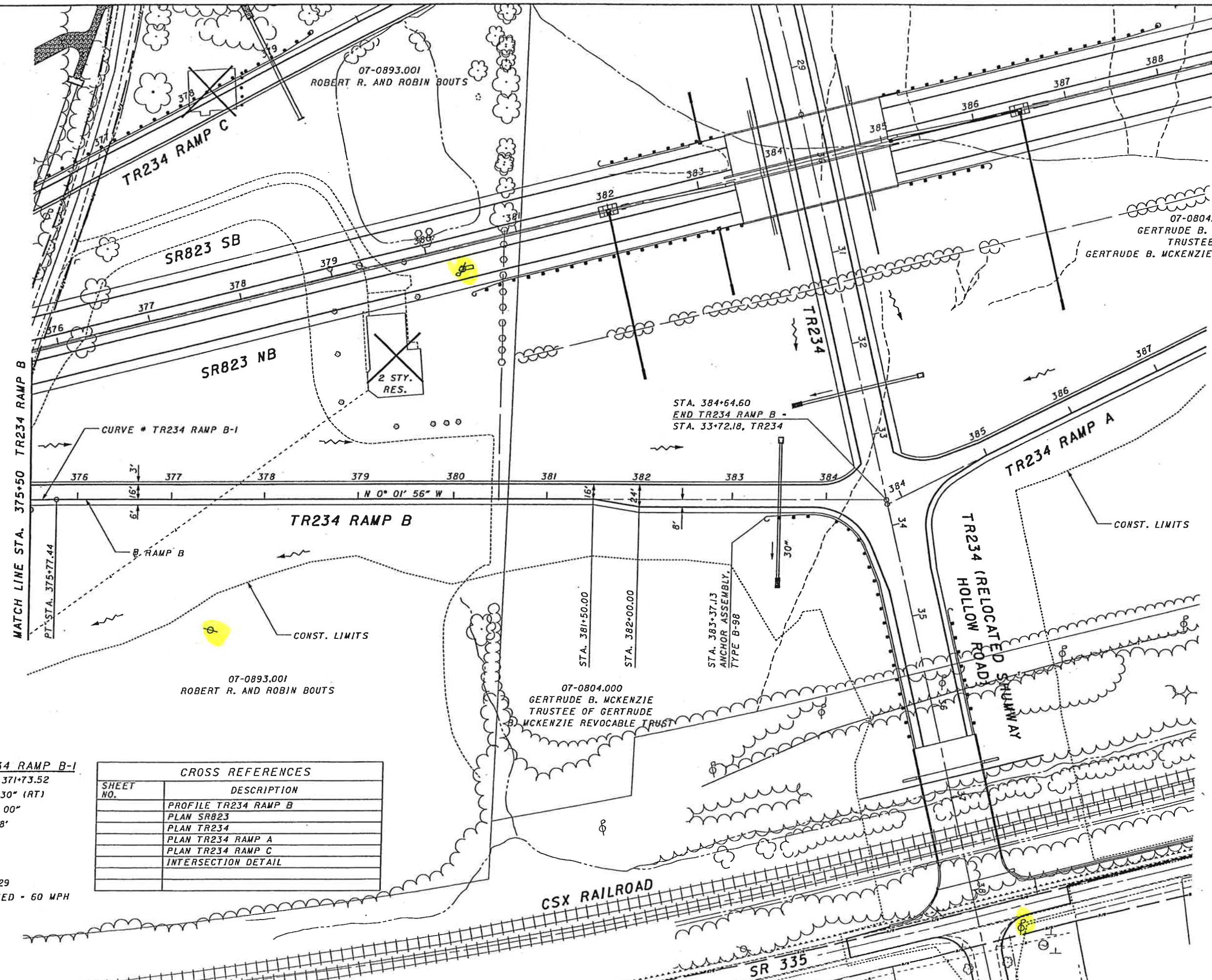




CALCULATED DL
CREATED RN

PLAN - TOWNSHIP ROAD 234 RAMP B
STA. 375+50.00 TO STA. 384+64.60

SCI-823-6.81



CURVE #TR234 RAMP B-1
P.I. STA. - 371+73.52
D - 8° 05' 30" (RT)
Dc - 1° 00' 00"
R - 5,729.58'
T - 405.26'
L - 809.18'
E - 14.31'
Emax. - 0.029
DESIGN SPEED - 60 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE TR234 RAMP B
	PLAN SR823
	PLAN TR234
	PLAN TR234 RAMP A
	PLAN TR234 RAMP C
	INTERSECTION DETAIL

MATCH LINE STA. 375+50 TR234 RAMP B
PT. STA. 375+77.44

STA. 384+64.60
END TR234 RAMP B -
STA. 33+72.18, TR234

CSX RAILROAD

SR 335

07-0893.001
ROBERT R. AND ROBIN BOUTS

07-0804.000
GERTRUDE B. MCKENZIE
TRUSTEE OF
GERTRUDE B. MCKENZIE REVOCABLE TRUST

07-0804.000
GERTRUDE B. MCKENZIE
TRUSTEE OF GERTRUDE
B. MCKENZIE REVOCABLE TRUST

07-0893.001
ROBERT R. AND ROBIN BOUTS

2 STY.
RES.

CURVE # TR234 RAMP B-1

TR234 RAMP B

TR234 RAMP A

TR234 RAMP C

SR823 SB

SR823 NB

TR234

TR234 (RELOCATED
HOLLOW ROAD)
SHUNWAY

CONST. LIMITS

CONST. LIMITS

376 377 378 379 380 381 382 383 384

N 0° 01' 56" W

STA. 381+50.00
STA. 382+00.00

STA. 383+37.13
ANCHOR ASSEMBLY,
TYPE B-98

34 35

32 33

36 37

388

387

386

385

384

383

382

381

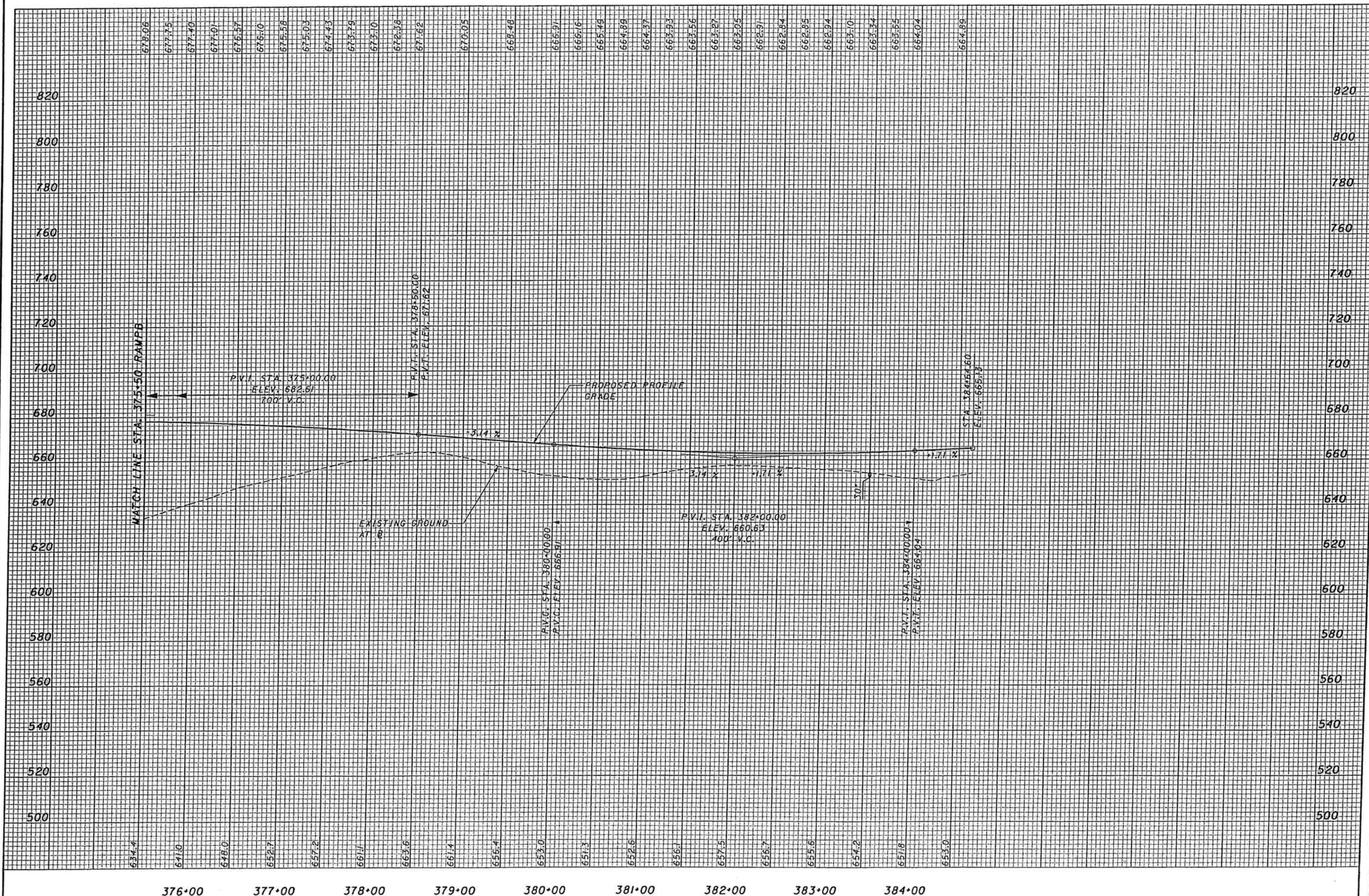
380

379

378

377

376



CALCULATED
JFA
CHECKED
RN

PROFILE - TOWNSHIP ROAD 234 RAMP B
STA. 375+50.00 TO STA. 384+64.60

SCI-823-6.81

CURVE #TR234 RAMP C-1

P.J. STA. - 371+60.59
 DELTA - 17°51'23.79" (LT)
 Dc - 2° 30' 00"
 R - 2,291.83'
 Ls - 200.00'
 Theta - 2° 30' 00" (LT)
 LT - 133.35'
 ST - 66.68'
 x - 199.96'
 y - 2.91'
 k - 99.99'
 p - 0.73'
 DELTA_c - 12°51'23.79" (LT)
 L_c - 514.26'
 T_c - 258.22'
 T_s - 460.16'
 E_s - 28.85'
 E_{max} - 0.061
 DESIGN SPEED - 60 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE TR234 RAMP C
	PLAN SR823
	PLAN TR234 RAMP B
	PAVEMENT ELEVATION DETAIL
	DRAINAGE PROFILES

07-0893.000
 BENNETT, ERIC D., BENNETT EVERETT A,
 AND BENTLEY, JENNIFER

CALCULATED DL
 CHECKED RW

PLAN - TOWNSHIP ROAD 234 RAMP C
 STA. 366+50.00 TO STA. 374+50.00

SCI-823-6.81

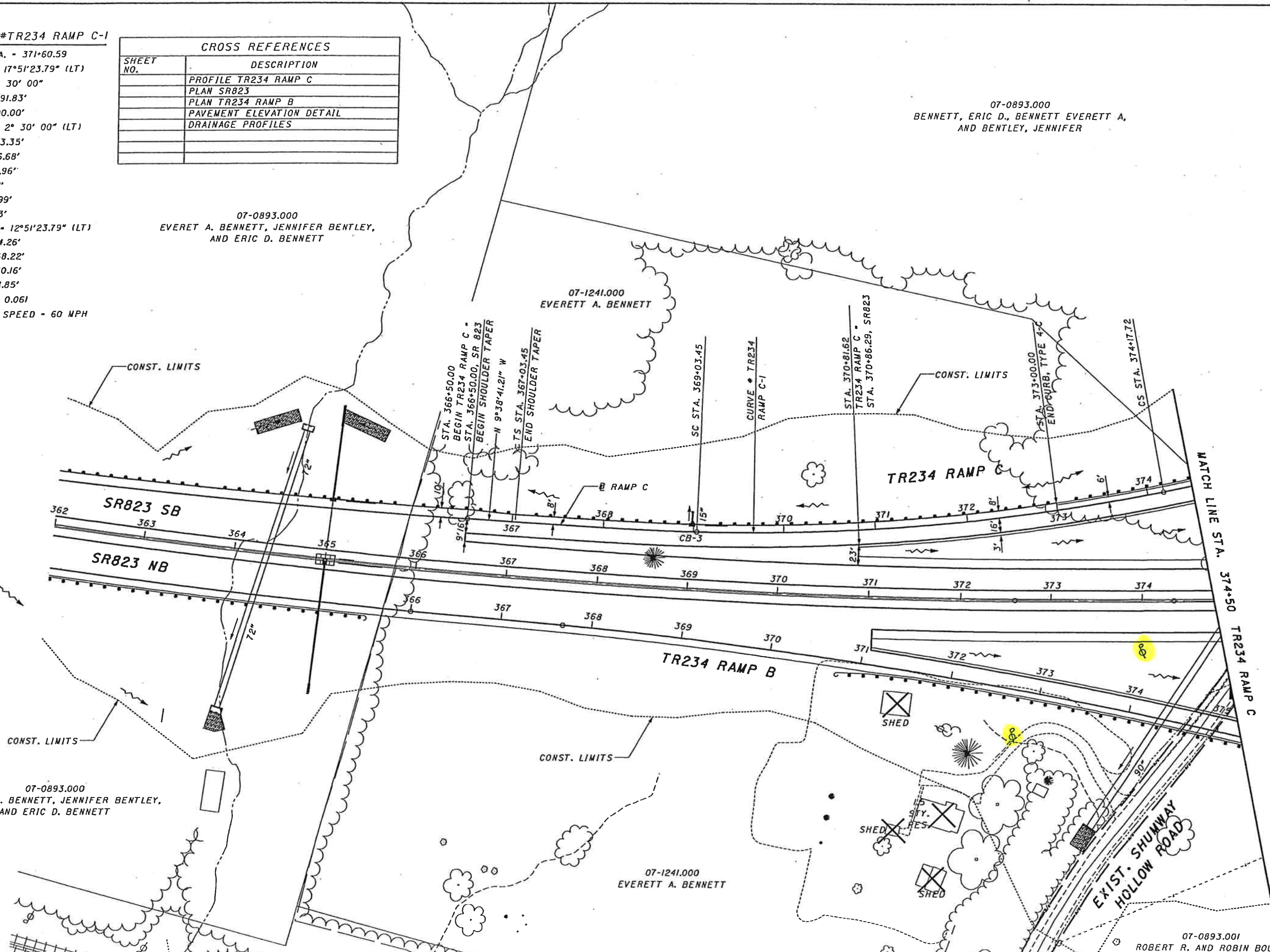
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 AND ERIC D. BENNETT

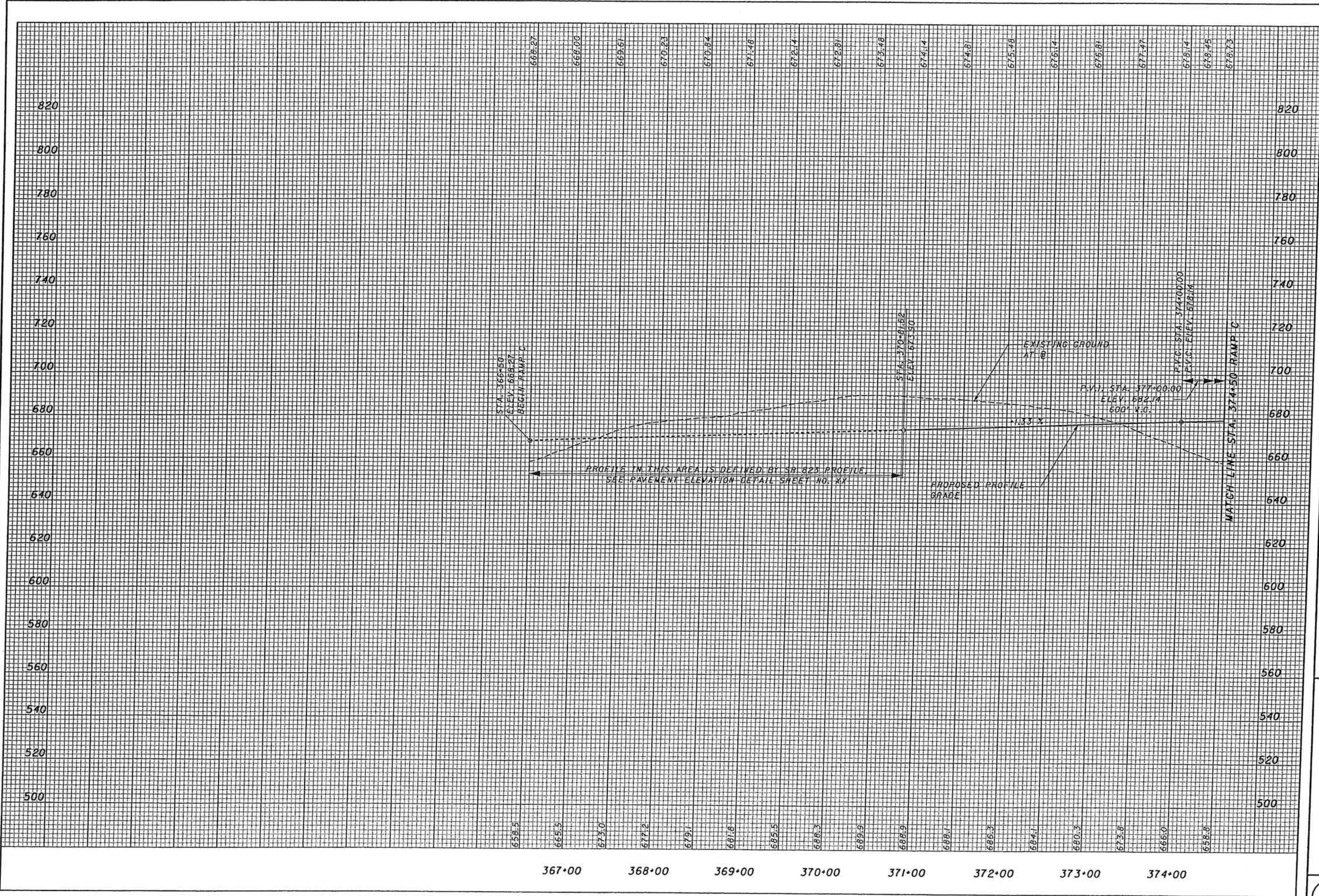
07-1241.000
 EVERETT A. BENNETT

07-0893.000
 EVERET A. BENNETT, JENNIFER BENTLEY,
 AND ERIC D. BENNETT

07-1241.000
 EVERETT A. BENNETT

07-0893.001
 ROBERT R. AND ROBIN BOUTS



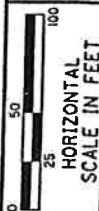


CALCULATED
 JFA
 CHECKED
 RH

PROFILE - TOWNSHIP ROAD 234 RAMP C
 STA. 366+50.00 TO STA. 374+50.00

SCI-823-6.81

72



CALCULATED DL
CHECKED RN

PLAN - TOWNSHIP ROAD 234 RAMP C
STA. 374+50.00 TO STA. 384+33.64

SCI-823-6.81

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE TR234 RAMP C
	PLAN SR823
	PLAN TR234
	PLAN TR234 RAMP B
	PLAN TR234 RAMP D
	INTERSECTION DETAIL
	CULVERT DETAIL

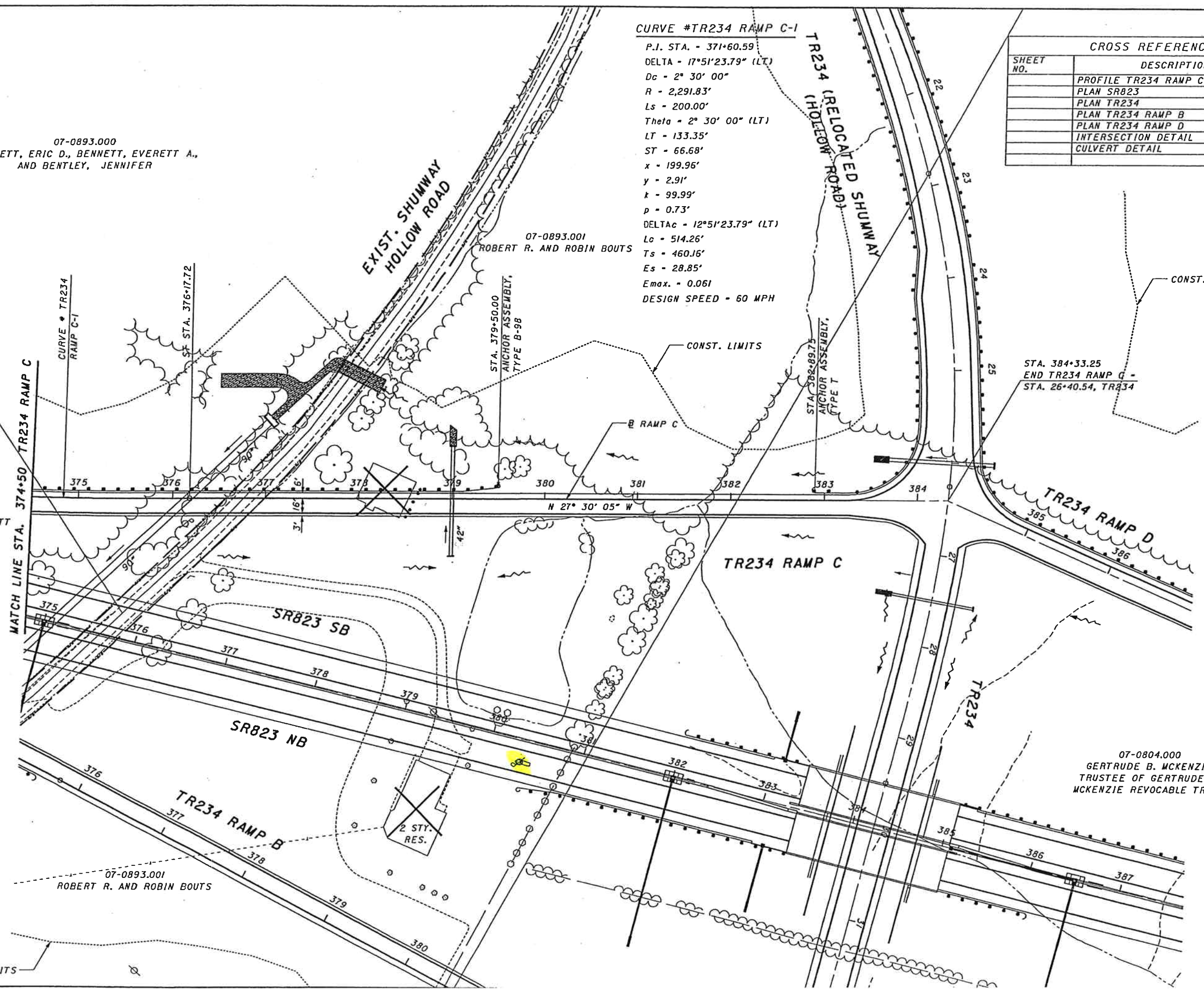
CURVE #TR234 RAMP C-1
 P.I. STA. - 371+60.59
 DELTA - 17°51'23.79" (LT)
 Dc - 2° 30' 00"
 R - 2,291.83'
 Ls - 200.00'
 Theta - 2° 30' 00" (LT)
 LT - 133.35'
 ST - 66.68'
 x - 199.96'
 y - 2.91'
 k - 99.99'
 p - 0.73'
 DELTA_c - 12°51'23.79" (LT)
 Lc - 514.26'
 Ts - 460.16'
 Es - 28.85'
 Emax. - 0.061
 DESIGN SPEED - 60 MPH

07-0893.000
 BENNETT, ERIC D., BENNETT, EVERETT A.,
 AND BENTLEY, JENNIFER

07-0893.001
 ROBERT R. AND ROBIN BOUTS

STA. 384+33.25
 END TR234 RAMP C -
 STA. 26+40.54, TR234

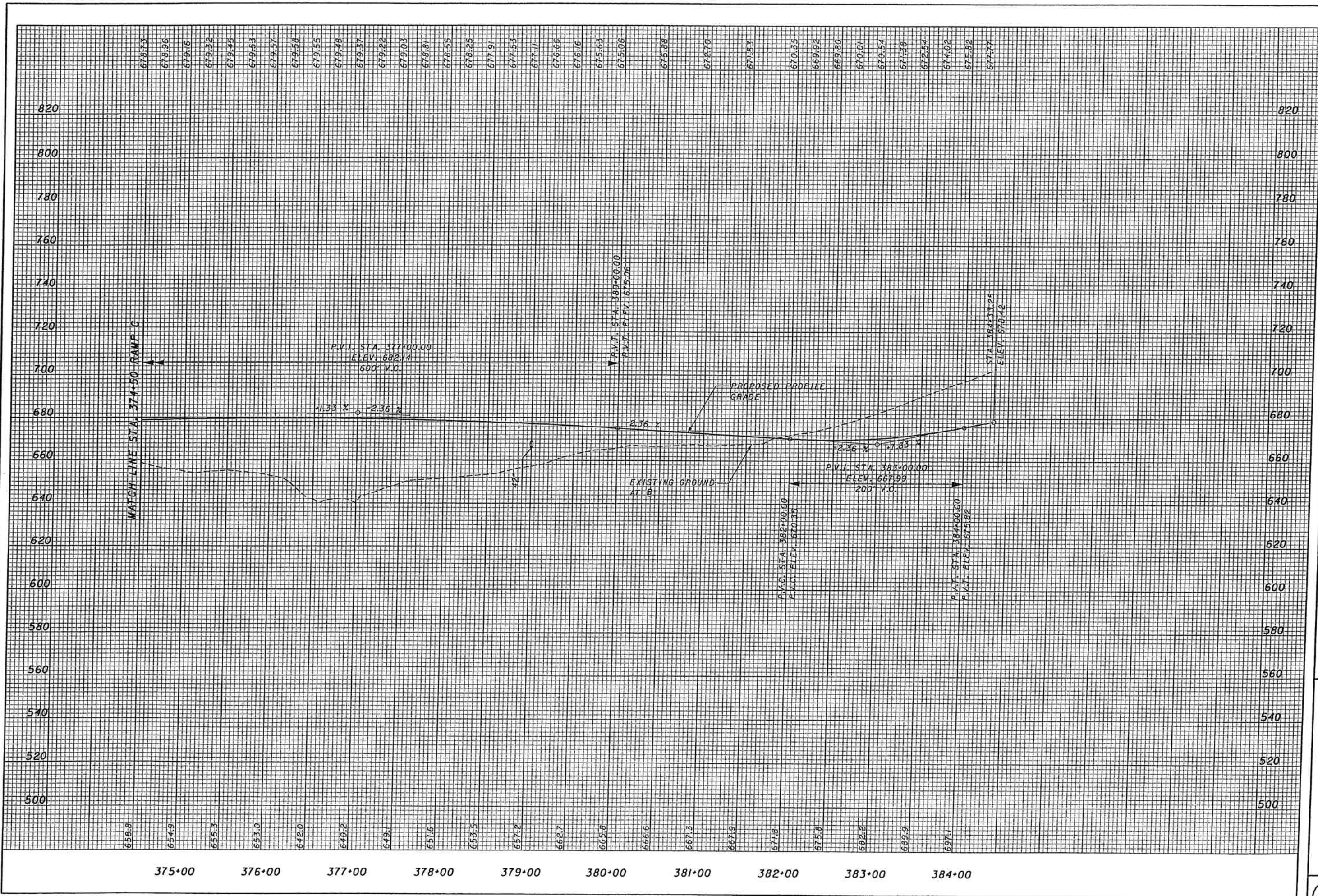
07-0804.000
 GERTRUDE B. MCKENZIE
 TRUSTEE OF GERTRUDE B.
 MCKENZIE REVOCABLE TRUST



07-1241.000
 EVERETT A. BENNETT

07-0893.001
 ROBERT R. AND ROBIN BOUTS

CONST. LIMITS



MATCH LINE STA. 374.50 RAMP C

P.V.I. STA. 377+00.00
ELEV. 682.14
500' V.C.

P.V.I. STA. 380+00.00
P.V.T. ELEV. 675.08

P.V.C. STA. 382+00.00
P.V.C. ELEV. 670.35

P.V.I. STA. 383+00.00
ELEV. 667.99
200' V.C.

P.V.T. STA. 384+00.00
P.V.T. ELEV. 675.82

STA. 384+33.25
ELEV. 678.72

07-0804.000
 GERTRUDE B. MECKENZIE
 TRUSTEE OF
 GERTRUDE B. MCKENZIE
 REVOCABLE TRUST

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE TR234 RAMP D
	PLAN SR823
	PLAN TR234
	PLAN TR234 RAMP A
	PLAN TR234 RAMP C
	INTERSECTION DETAIL



CALCULATED DL
 CHECKED RN

PLAN - TOWNSHIP ROAD 234 RAMP D
 STA. 384+07.63 TO STA. 393+50.00

SCI-823-6.81

07-0893.001
 ROBERT R. AND ROBIN BOUTS

07-0893.001
 ROBERT R. AND ROBIN BOUTS

STA. 384+07.63
 BEGIN TR234 RAMP D -
 STA. 26+40.67, TR234

STA. 387+00.00
 STA. 387+50.00

CONST. LIMITS

B RAMP D

TR234 RAMP D

MATCH LINE STA. 393+50 TR234 RAMP D

SR823 SB

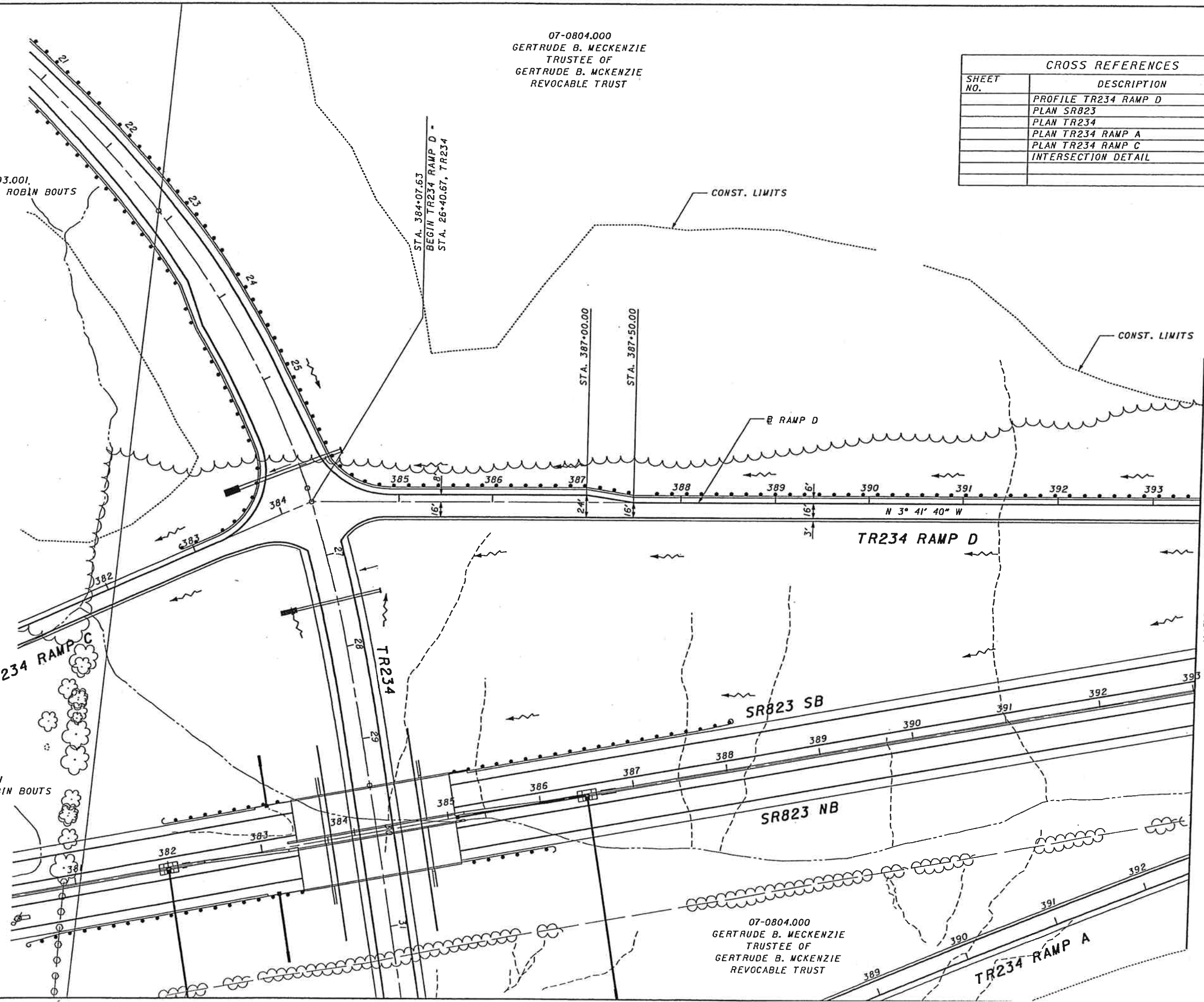
SR823 NB

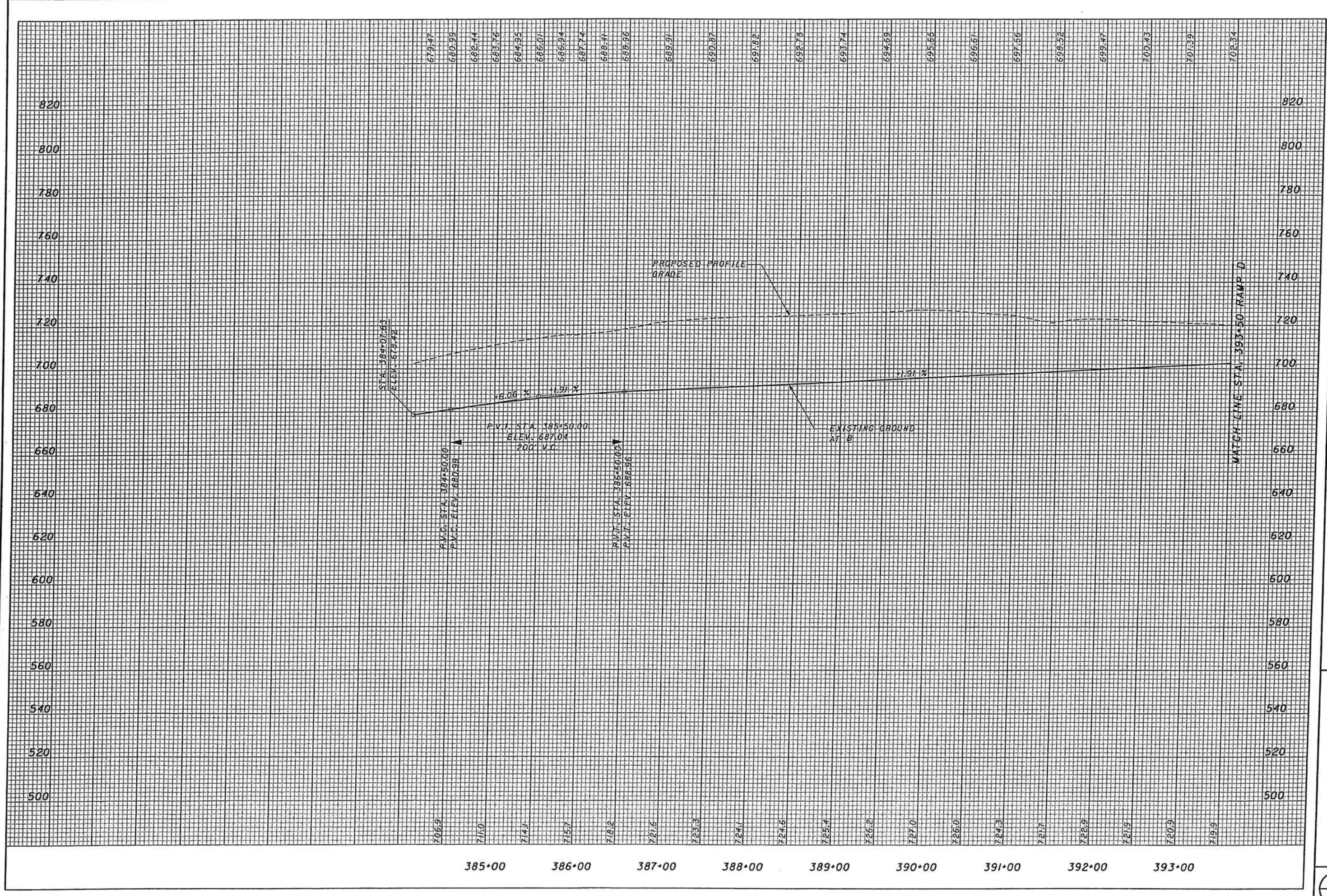
07-0804.000
 GERTRUDE B. MECKENZIE
 TRUSTEE OF
 GERTRUDE B. MCKENZIE
 REVOCABLE TRUST

TR234 RAMP A

TR234 RAMP C

TR234







CALCULATED DL
CHECKED RW

PLAN - TOWNSHIP ROAD 234 RAMP D
STA. 393+50.00 TO STA. 406+00.00

SCI-823-6.81

77

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE TR234 RAMP D
	PLAN SR823
	PLAN TR234 RAMP A
	PAVEMENT ELEVATION DETAIL
	CULVERT DETAIL

CURVE # TR234 RAMP D-1
 P.I. STA. - 403+66.60
 DELTA - 31° 07' 32" (LT)
 Dc - 2° 36' 00"
 R - 2,203.68'
 T - 613.73'
 L - 1,197.13'
 E - 83.87'
 Emax. - 0.065
 DESIGN SPEED - 60 MPH

07-0803.00
 GERTRUDE B. MCKENZIE
 TRUSTEE OF
 GERTRUDE B. MCKENZIE REVOCABLE TRUST

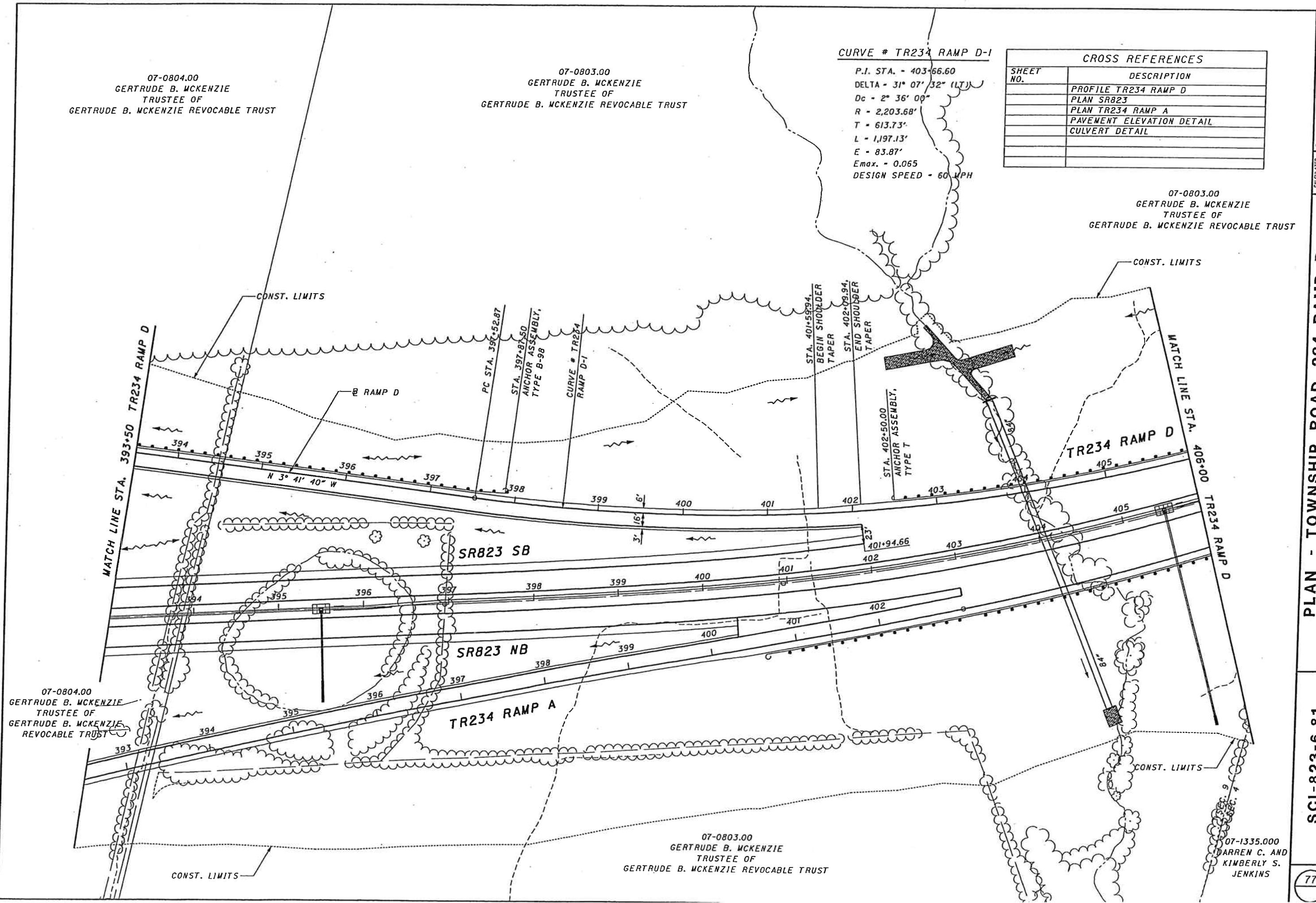
07-0804.00
 GERTRUDE B. MCKENZIE
 TRUSTEE OF
 GERTRUDE B. MCKENZIE REVOCABLE TRUST

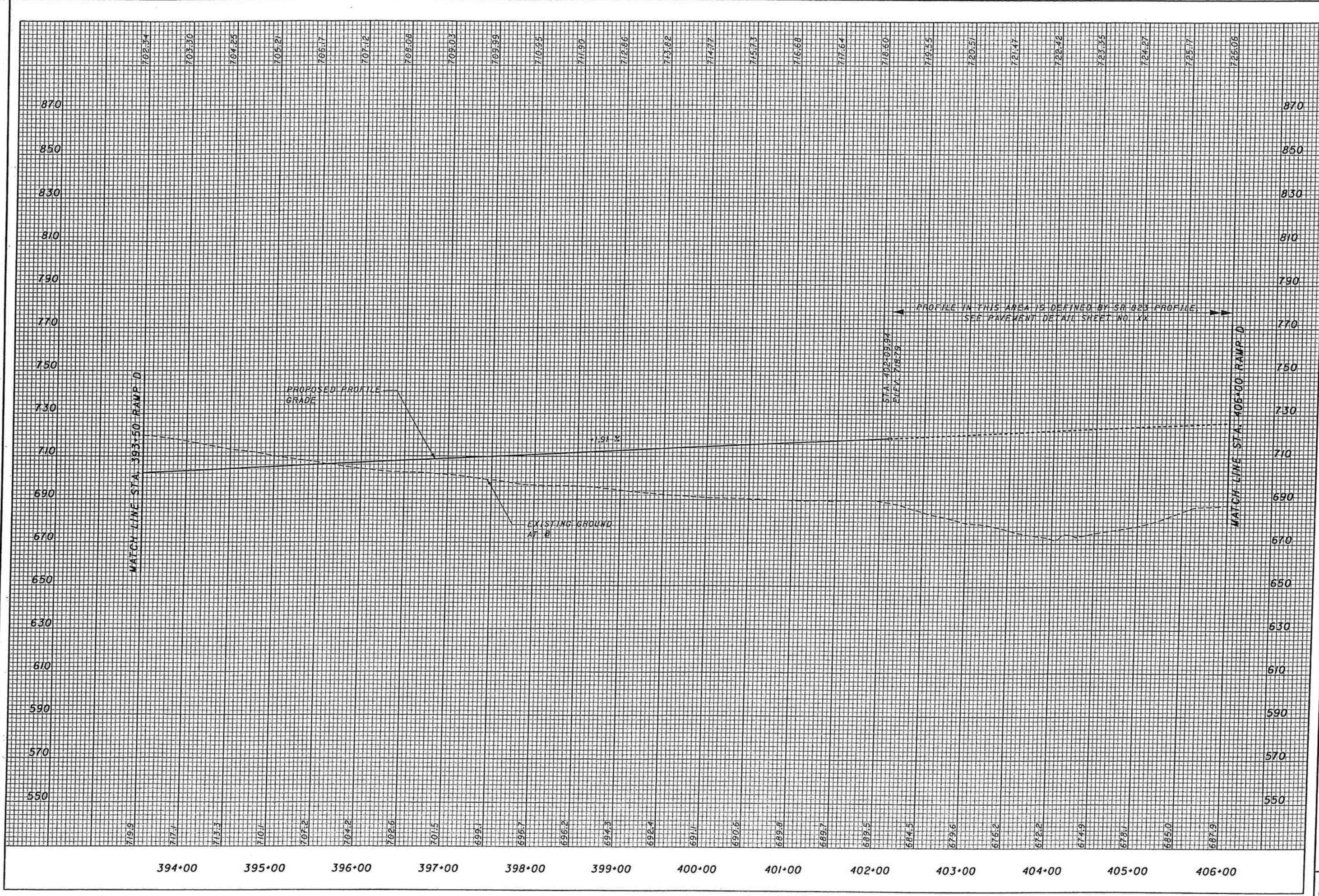
07-0803.00
 GERTRUDE B. MCKENZIE
 TRUSTEE OF
 GERTRUDE B. MCKENZIE REVOCABLE TRUST

07-0804.00
 GERTRUDE B. MCKENZIE
 TRUSTEE OF
 GERTRUDE B. MCKENZIE
 REVOCABLE TRUST

07-0803.00
 GERTRUDE B. MCKENZIE
 TRUSTEE OF
 GERTRUDE B. MCKENZIE REVOCABLE TRUST

07-1335.000
 DARREN C. AND
 KIMBERLY S.
 JENKINS





SCI-823-6.81

PROFILE - TOWNSHIP ROAD 234 RAMP D
STA. 393+50.00 TO STA. 406+00.00

CALCULATED	JFA
CHECKED	RN

78



CALCULATED DL
CHECKED RN

PLAN - TOWNSHIP ROAD 234 RAMP D
STA. 406+00.00 TO STA. 409+50.00

SCI-823-6.81

CURVE # TR234 RAMP D-1

P.I. STA. - 403+66.60
DELTA - 31° 07' 32" (LT)
Dc - 2° 36' 00"
R - 2,203.68'
T - 613.73'
L - 1,197.13'
E - 83.87'
Emax. - 0.065
DESIGN SPEED - 60 MPH

CROSS REFERENCES

SHEET NO.	DESCRIPTION
	PROFILE TR234 RAMP D
	PLAN SR823
	PAVEMENT ELEVATION DETAIL

07-0803.000
GERTRUDE B. MCKENZIE
TRUSTEE OF
GERTRUDE B. MCKENZIE REVOCABLE TRUST

07-1335.000
DARREN C. AND
KIMBERLY S. JENKINS

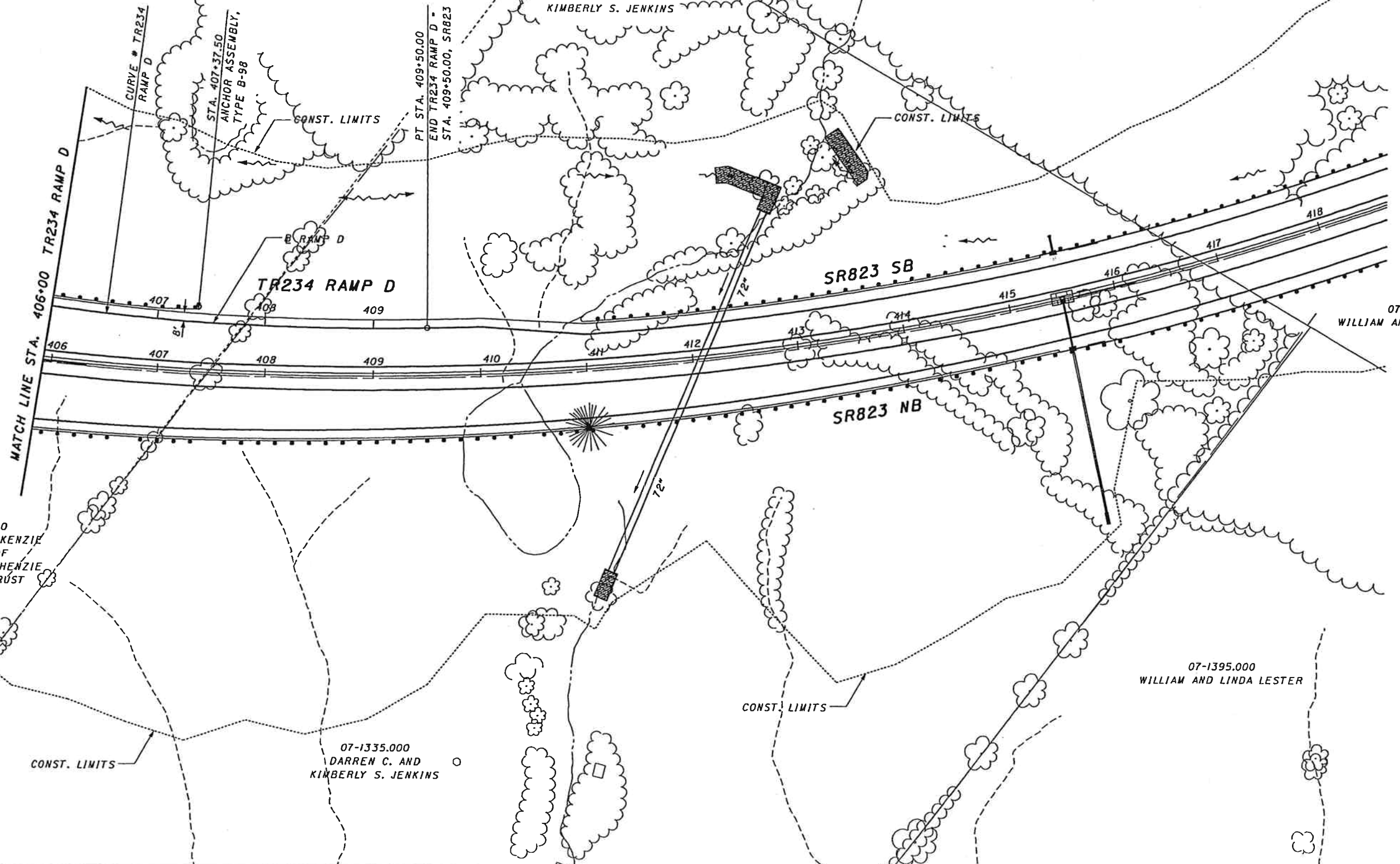
07-1396.000
WILLIAM AND LINDA LESTER

07-1396.000
WILLIAM AND LINDA LESTER

07-1395.000
WILLIAM AND LINDA LESTER

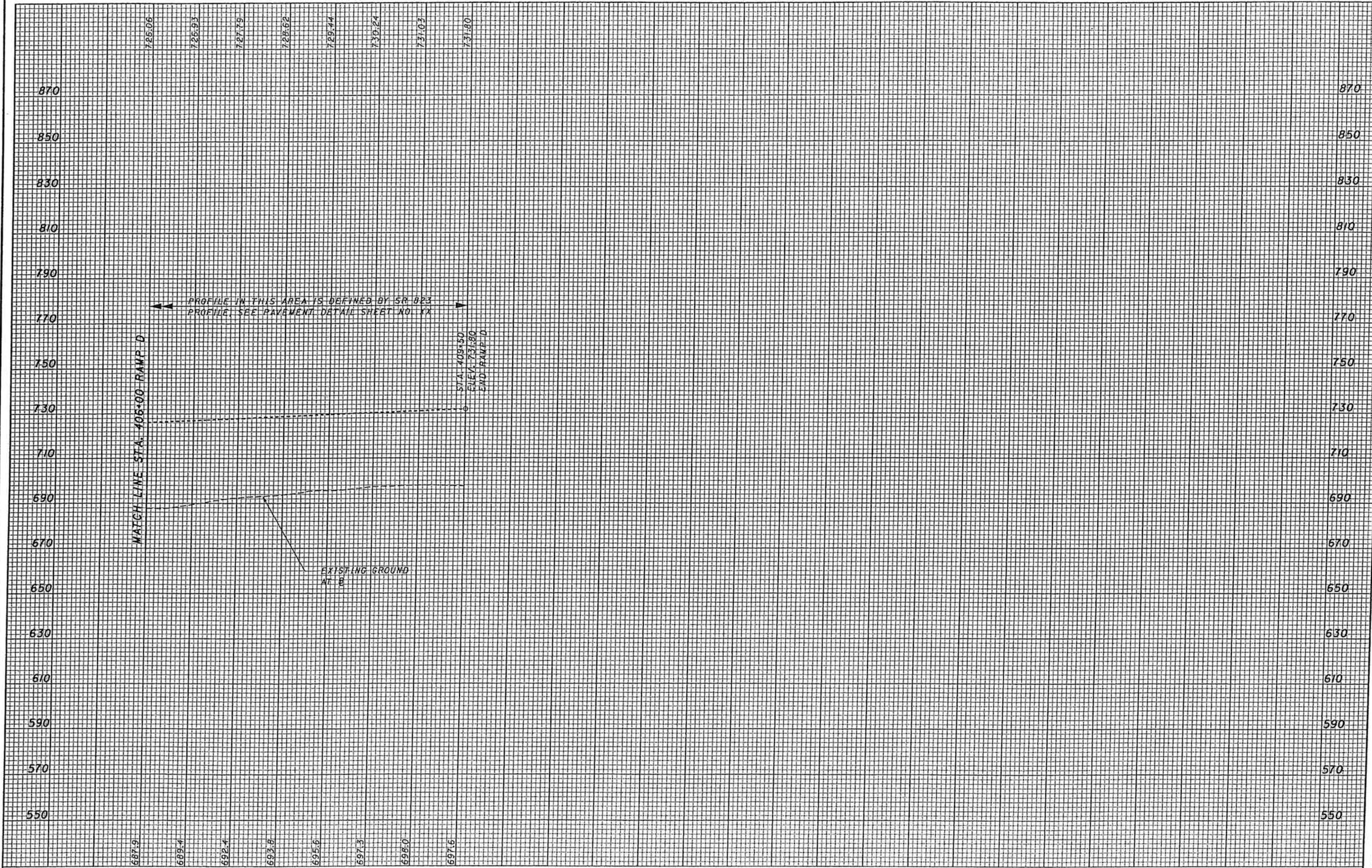
07-1335.000
DARREN C. AND
KIMBERLY S. JENKINS

07-0803.000
GERTRUDE B. MCKENZIE
TRUSTEE OF
GERTRUDE B. MCKENZIE
REVOCABLE TRUST



SEC. 9
SEC. 4

SEC. 9
SEC. 4



406+00 407+00 408+00 409+00

CALCULATED
JFA
CHECKED
RW

PROFILE - TOWNSHIP ROAD 234 RAMP D
STA. 406+00.00 TO STA. 409+50.00

SCI-823-6.81

CURVE # CR28 RAMP A - 1

P.I. STA. - 517+01.90
 DELTA - 9° 02' 18" (RT)
 Dc - 1° 30' 00"
 R - 3,819.72'
 T - 301.90'
 L - 602.56'
 E - 11.91'
 Emax. - 0.041
 DESIGN SPEED - 60 MPH

CURVE # CR28 RAMP A - 2

P.I. STA. - 522+95.87
 DELTA - 45° 02' 39" (RT)
 Dc - 7° 45' 00"
 R - 739.30'
 Ls - 200.00'
 Theta - 7° 45' 00" (RT)
 LT - 133.46'
 ST - 66.78'
 x - 199.63'
 y - 9.01'

k - 99.94'
 p - 2.25'
 DELTAc - 37° 17' 38.60" (RT)
 Lc - 481.21'
 Tc - 249.48'
 Ts - 481.21'
 Es - 40.96'
 Emax - 0.08
 DESIGN SPEED - 40 MPH

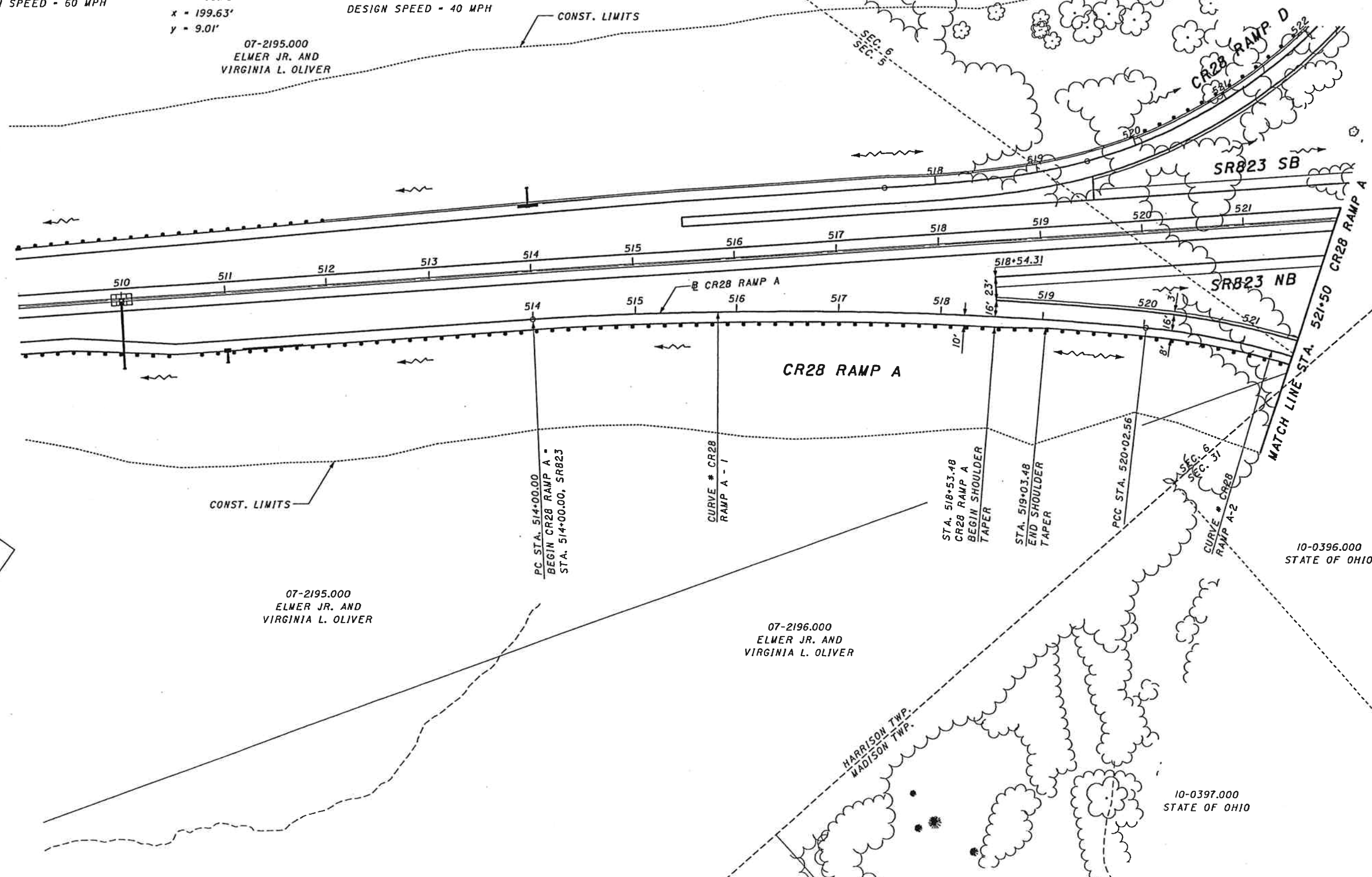
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE CR28 RAMP A
	PLAN SR823
	PLAN CR28 RAMP D
	PAVEMENT ELEVATION DETAIL

07-0477.000
 STATE OF OHIO



PLAN - CR28 INTERCHANGE, RAMP A
 STA. 514+00.00 TO STA. 521+50.00

SCI-823-6.81



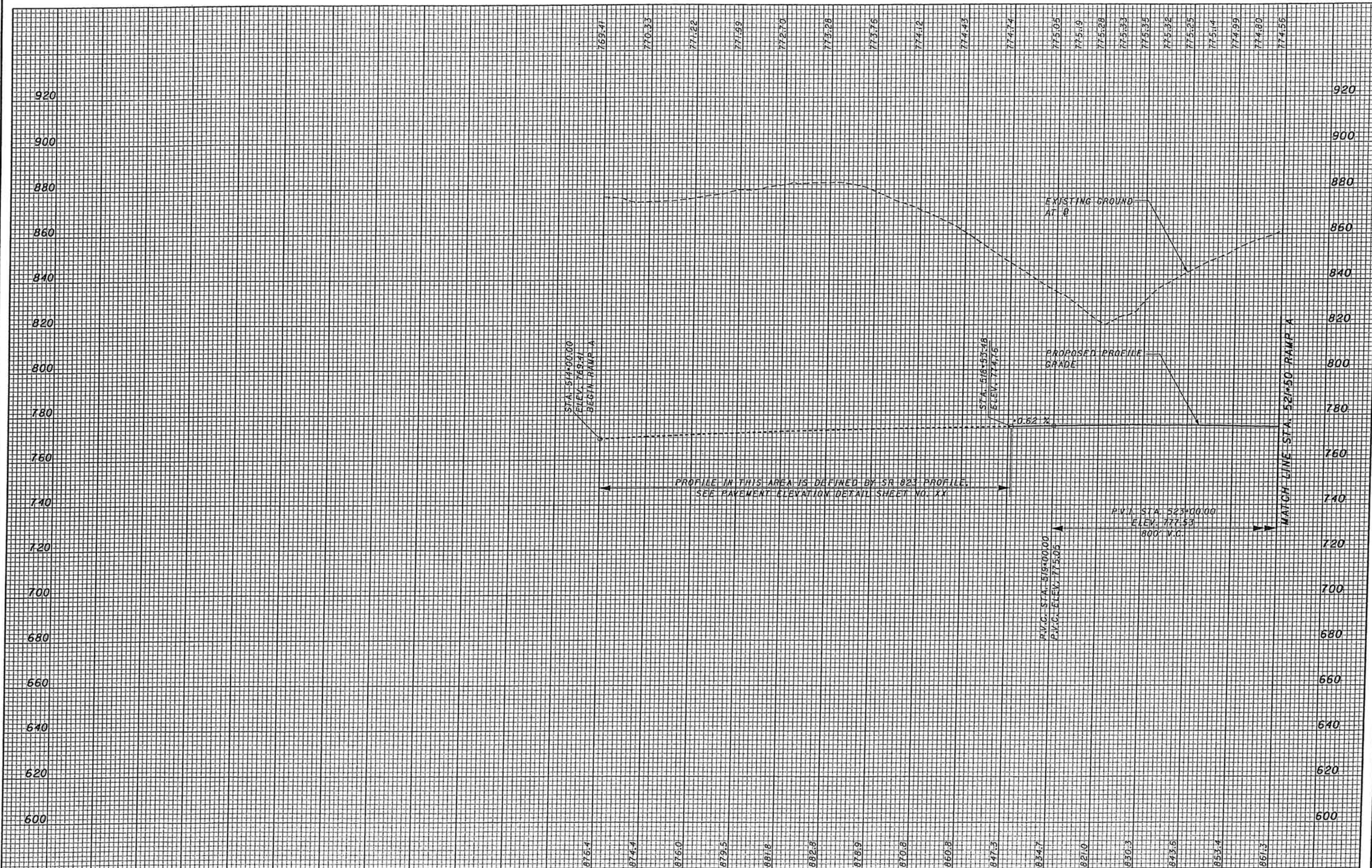
07-2653.000
 SCOTT D. AND
 JANICE W. OLIVER

07-2195.000
 ELMER JR. AND
 VIRGINIA L. OLIVER

07-2196.000
 ELMER JR. AND
 VIRGINIA L. OLIVER

10-0396.000
 STATE OF OHIO

10-0397.000
 STATE OF OHIO



CALCULATED
 JFA
 CHECKED
 RN

PROFILE - CR28 INTERCHANGE, RAMP A
 STA. 514+00.00 TO STA. 521+50.00

SCI-823-6.81

07-0477.000
STATE OF OHIO

07-2195.000
ELMER JR. AND
VIRGINIA L. OLIVER

07-2196.000
ELMER JR.
AND
VIRGINIA L.
OLIVER

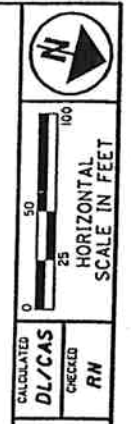
10-0396.000
STATE OF OHIO

10-0396.000
STATE OF OHIO

10-0396.000
STATE OF OHIO

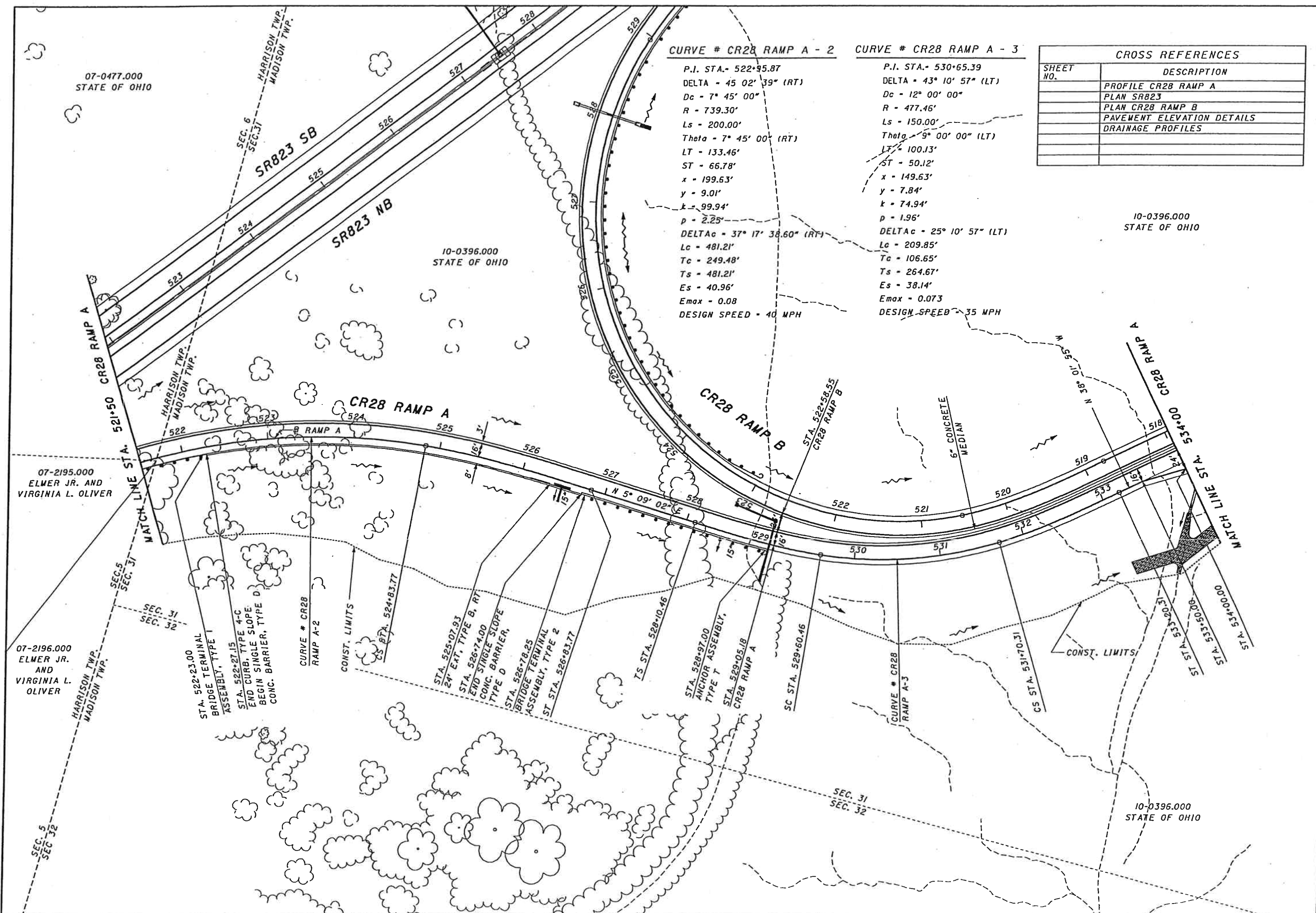
CURVE # CR28 RAMP A - 2	CURVE # CR28 RAMP A - 3
P.I. STA.- 522+95.87	P.I. STA.- 530+65.39
DELTA = 45° 02' 39" (RT)	DELTA = 43° 10' 57" (LT)
Dc = 7° 45' 00"	Dc = 12° 00' 00"
R = 739.30'	R = 477.46'
Ls = 200.00'	Ls = 150.00'
Theta = 7° 45' 00" (RT)	Theta = 9° 00' 00" (LT)
LT = 133.46'	LT = 100.13'
ST = 66.78'	ST = 50.12'
x = 199.63'	x = 149.63'
y = 9.01'	y = 7.84'
k = 99.94'	k = 74.94'
p = 2.25'	p = 1.96'
DELTAc = 37° 17' 38.60" (RT)	DELTAc = 25° 10' 57" (LT)
Lc = 481.21'	Lc = 209.85'
Tc = 249.48'	Tc = 106.65'
Ts = 481.21'	Ts = 264.67'
Es = 40.96'	Es = 38.14'
E _{max} = 0.08	E _{max} = 0.073
DESIGN SPEED = 40 MPH	DESIGN SPEED = 35 MPH

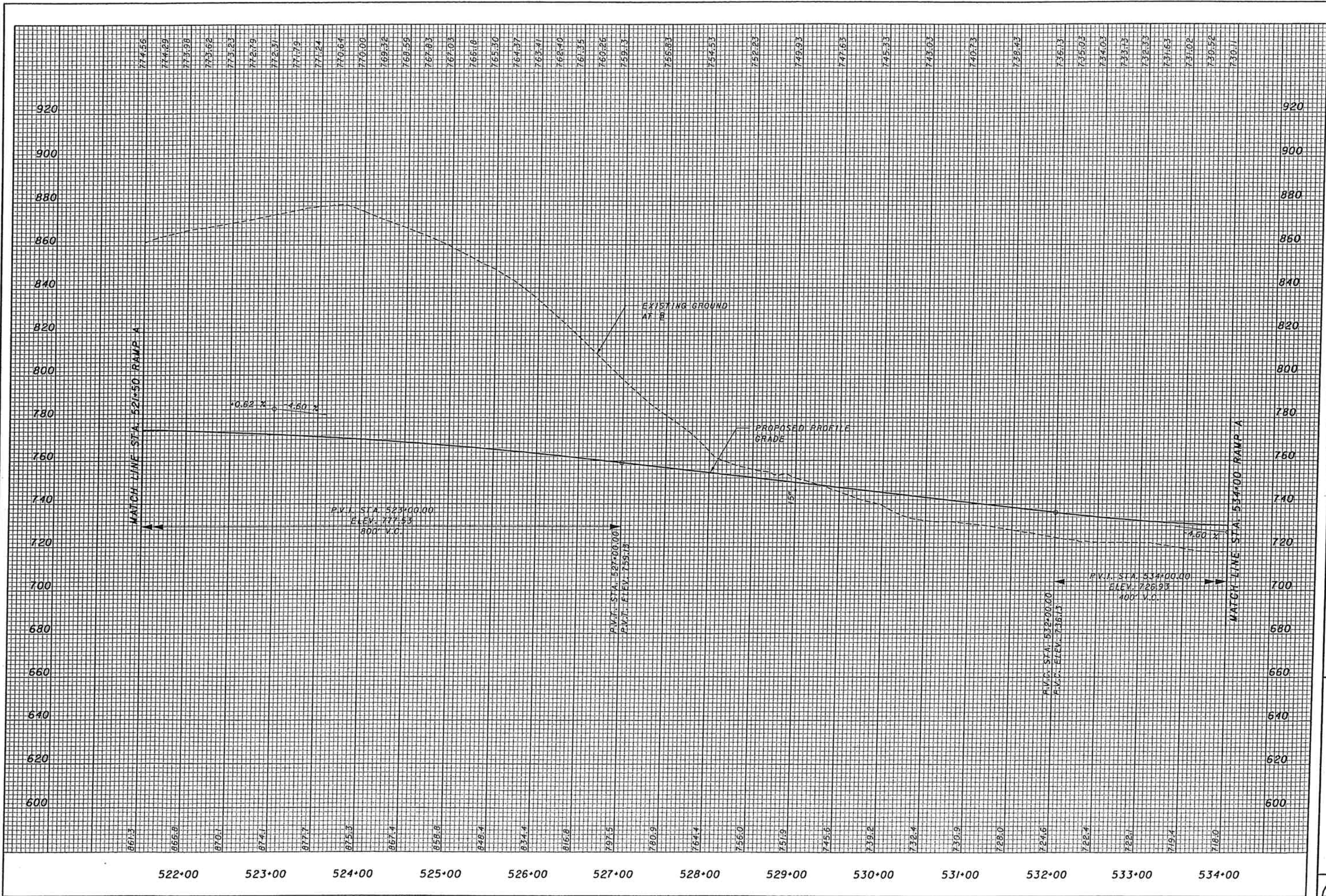
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE CR28 RAMP A
	PLAN SR823
	PLAN CR28 RAMP B
	PAVEMENT ELEVATION DETAILS
	DRAINAGE PROFILES



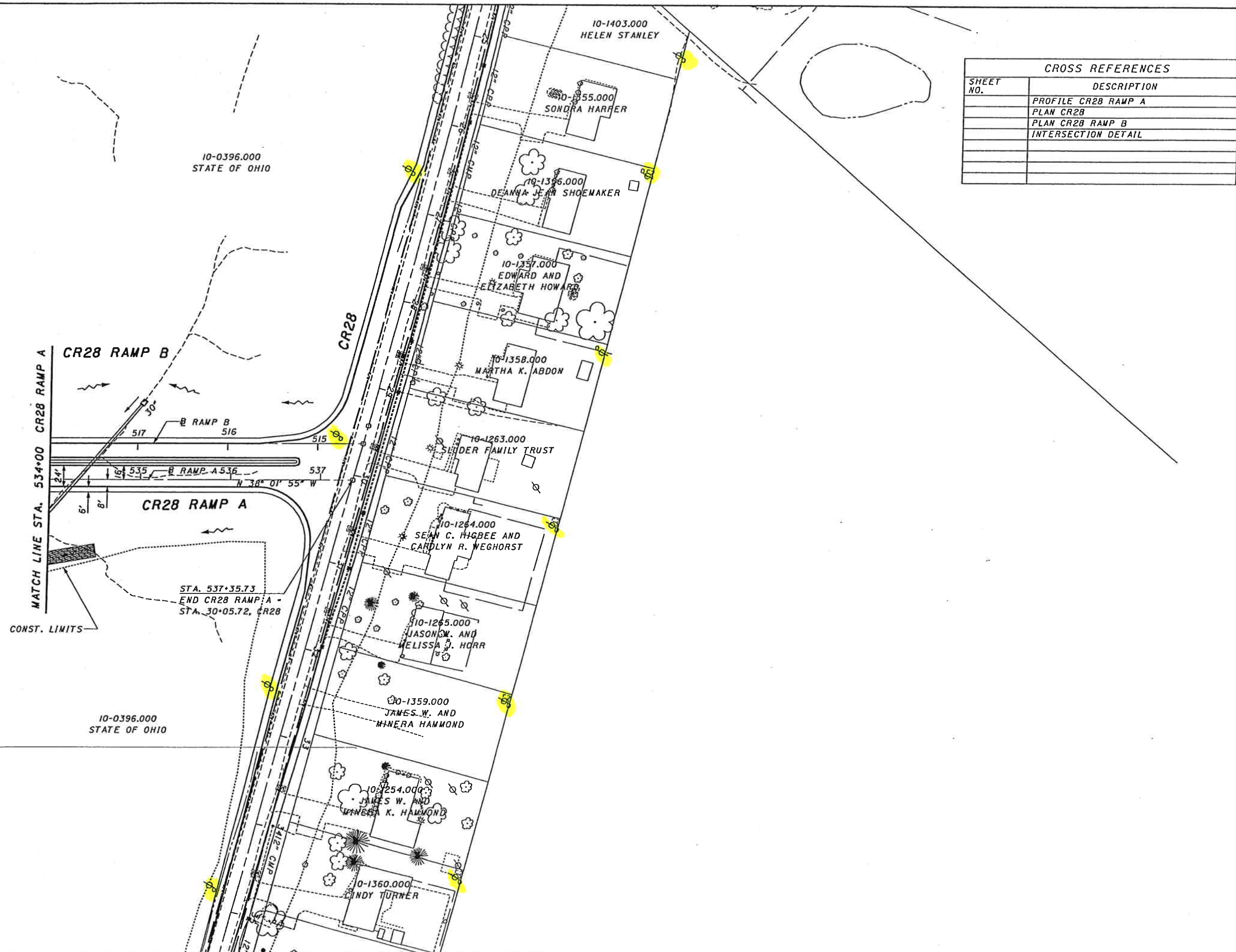
PLAN - CR28 INTERCHANGE, RAMP A
STA. 521+50.00 TO STA. 534+00.00

SCI-823-6.81





CALCULATED JFA
 CHECKED RN
SCI-823-6.81
PROFILE - CR28 INTERCHANGE RAMP A
STA. 521+50.00 TO STA. 534+00.00
 84



CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE CR28 RAMP A
	PLAN CR28
	PLAN CR28 RAMP B
	INTERSECTION DETAIL

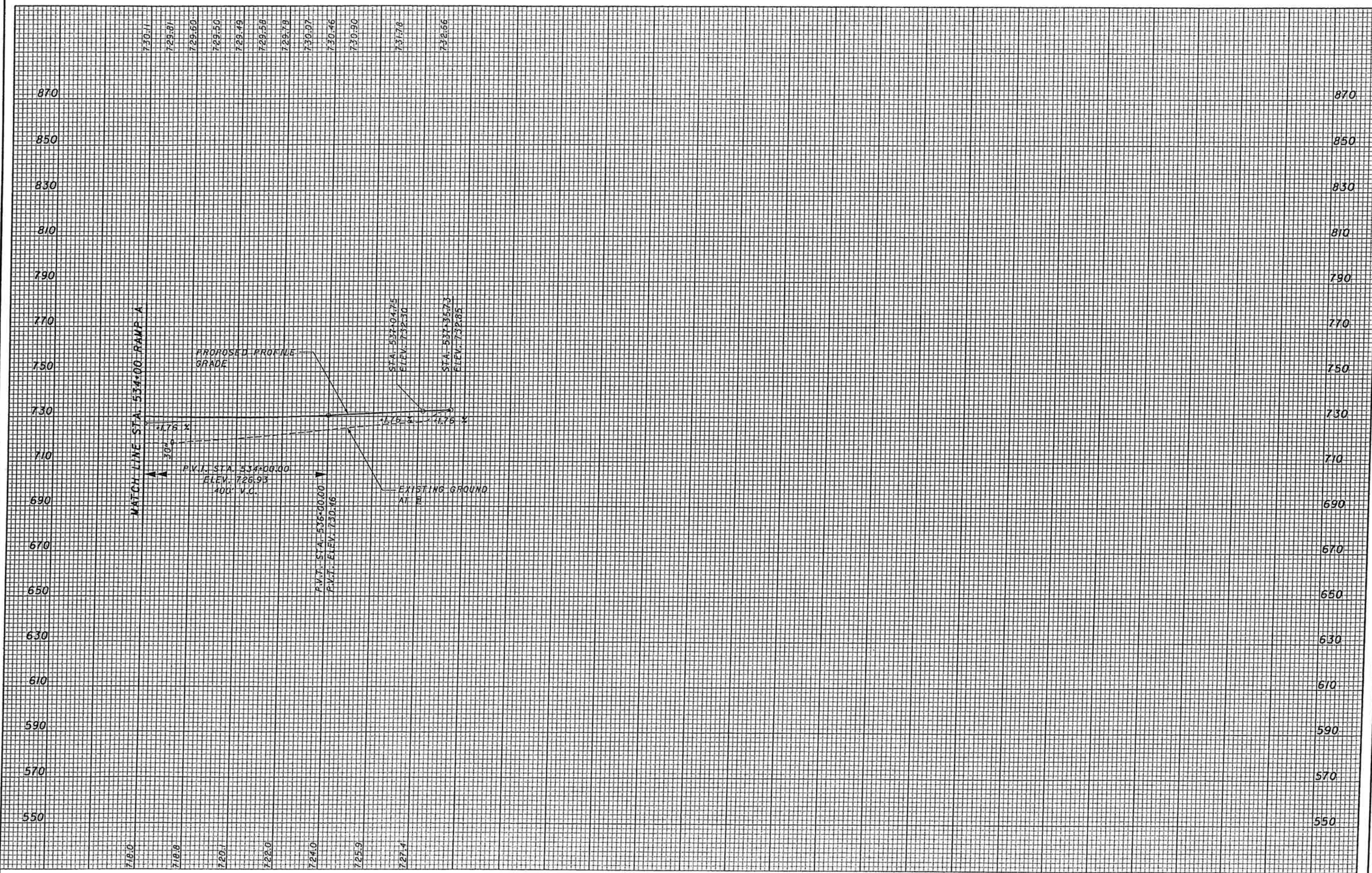
PLAN - CR28 INTERCHANGE, RAMP A
 STA. 534+00.00 TO STA. 537+35.73

SCI-823-6.81

CALCULATED
DL/CAS

CHECKED
RN

0 25 50 100
HORIZONTAL
SCALE IN FEET

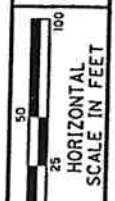


534+00 535+00 536+00 537+00

CALCULATED
JFA
CHECKED
RN

PROFILE - CR28 INTERCHANGE, RAMP A
STA. 534+00.00 TO STA. 537+35.73

SCI-823-6.81



CALCULATED
DL/CAS
CREATED
RN

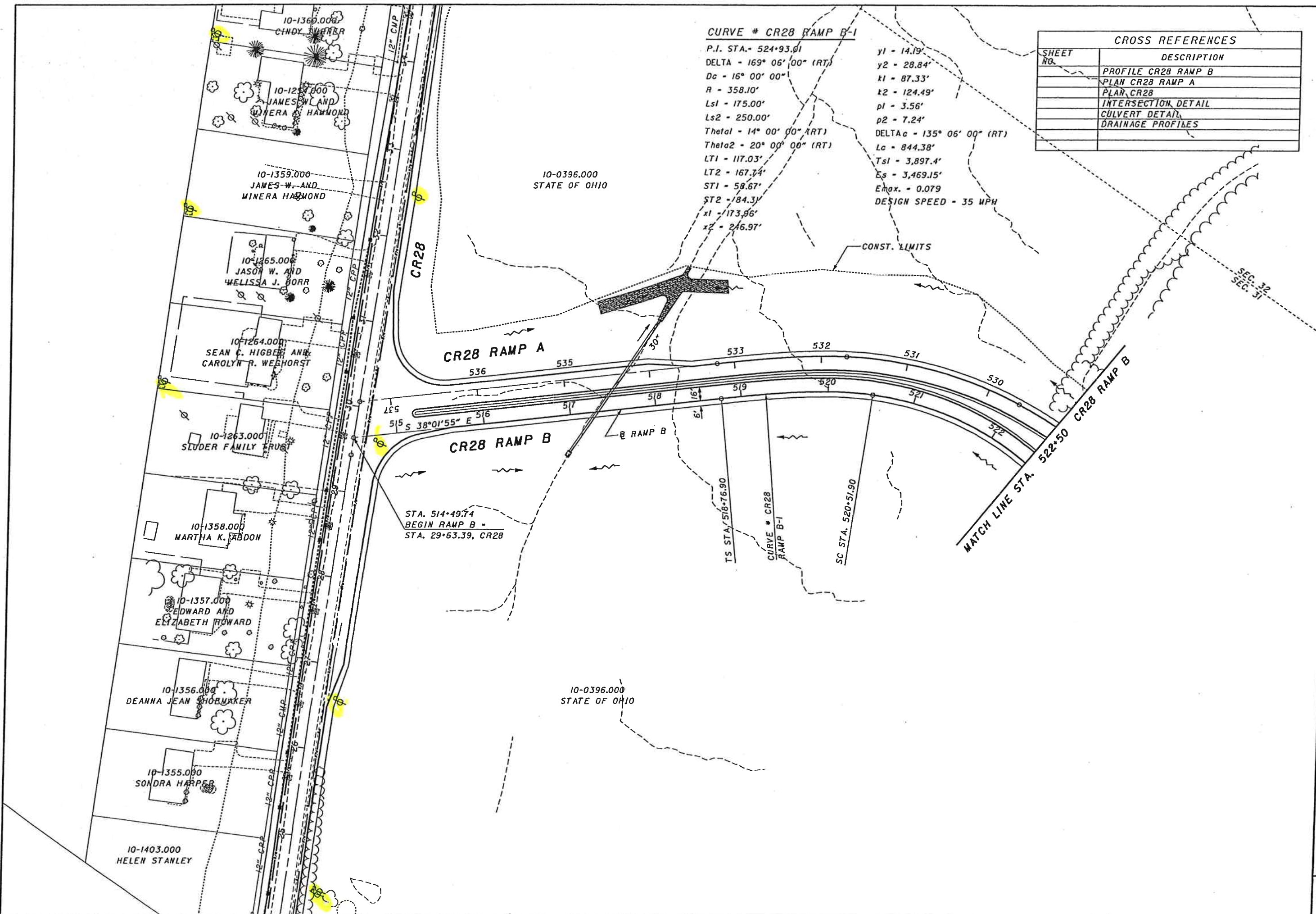
PLAN - CR28 INTERCHANGE, RAMP B
STA. 514+49.74 TO STA. 522+50.00

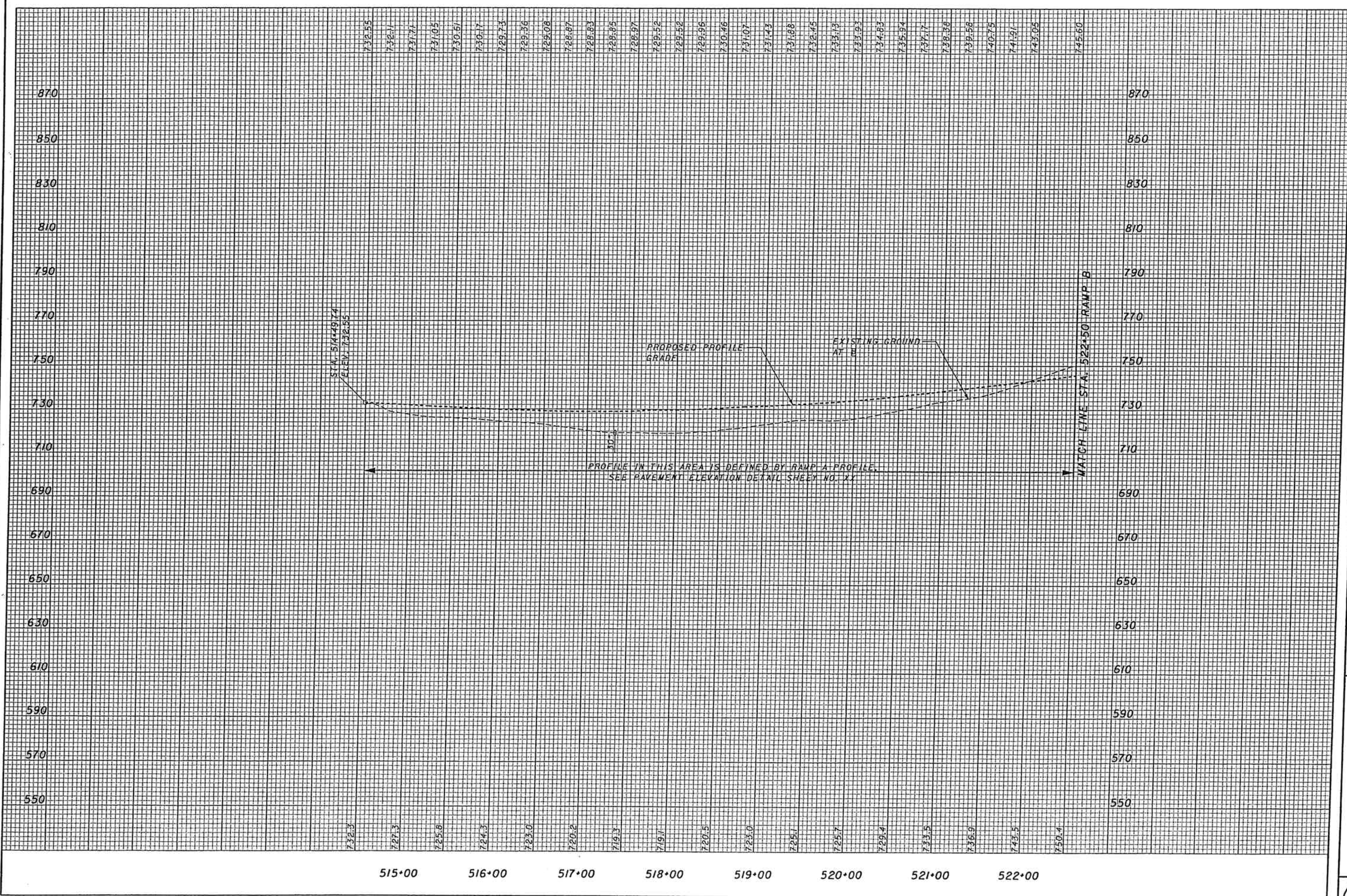
SCI-823-6.81

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE CR28 RAMP B
	PLAN CR28 RAMP A
	PLAN CR28
	INTERSECTION DETAIL
	CULVERT DETAIL
	DRAINAGE PROFILES

CURVE # CR28 RAMP B-1
 P.I. STA. = 524+93.01
 DELTA = 169° 06' 00" (RT)
 Dc = 16° 00' 00"
 R = 358.10'
 Ls1 = 175.00'
 Ls2 = 250.00'
 Theta1 = 14° 00' 00" (RT)
 Theta2 = 20° 00' 00" (RT)
 LT1 = 117.03'
 LT2 = 167.74'
 ST1 = 58.67'
 ST2 = 184.31'
 x1 = 173.96'
 x2 = 246.97'

y1 = 14.19'
 y2 = 28.84'
 k1 = 87.33'
 k2 = 124.49'
 p1 = 3.56'
 p2 = 7.24'
 DELTAc = 135° 06' 00" (RT)
 Lc = 844.38'
 Tsl = 3,897.4'
 Es = 3,469.15'
 Emax = 0.079
 DESIGN SPEED = 35 MPH





CALCULATED
 JFA
 CHECKED
 RH

PROFILE - CR28 INTERCHANGE, RAMP B
 STA. 514+49.74 TO STA. 522+50.00

SCI-823-6.81

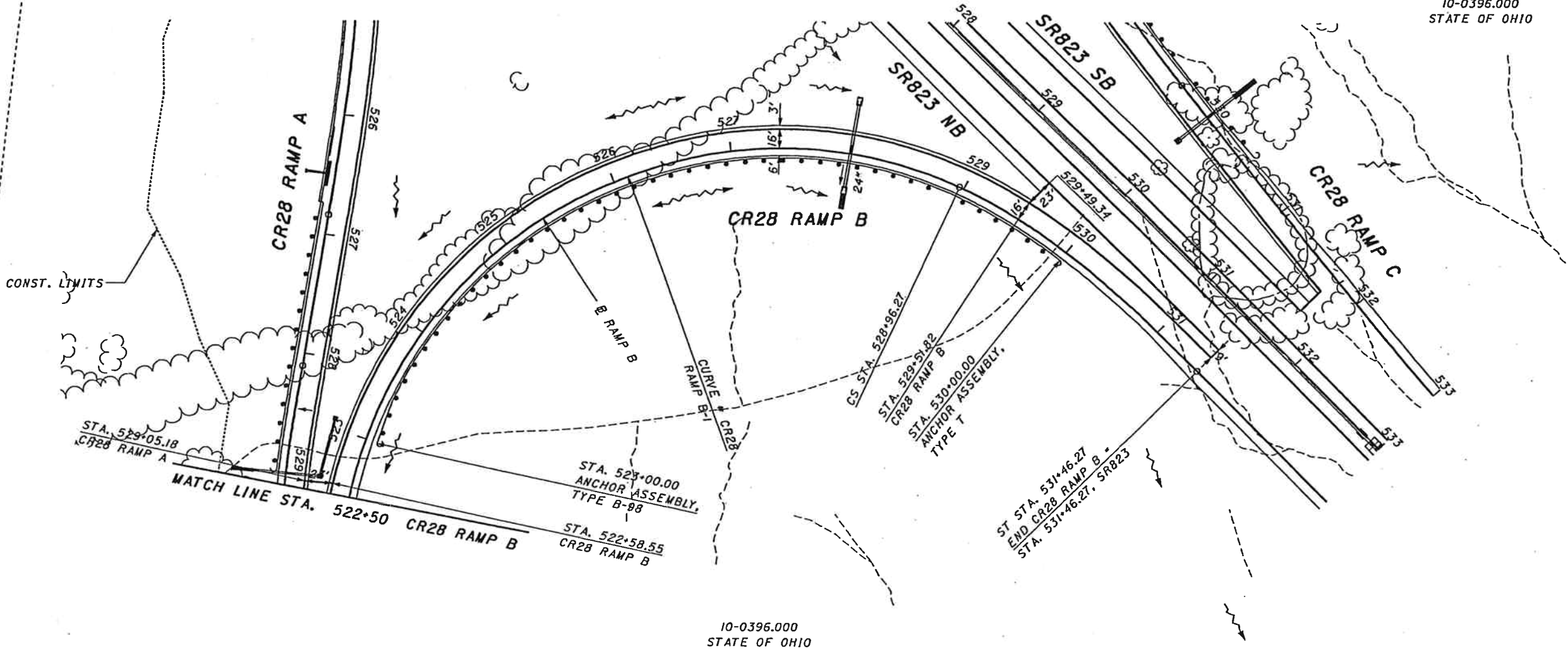
CURVE # CR28 RAMP B-1
 P.I. STA. = 524+93.01
 DELTA = 169° 06' 00" (RT) $y1 = 14.19'$
 Dc = 16° 00' 00" $y2 = 28.84'$
 R = 358.10' $k1 = 87.33'$
 Ls1 = 175.00' $k2 = 124.49'$
 Ls2 = 250.00' $p1 = 3.56'$
 Theta1 = 14° 00' 00" (RT) $p2 = 7.24'$
 Theta2 = 20° 00' 00" (RT) DELTA c = 135° 06' 00" (RT)
 LT1 = 117.03' $Lc = 844.38'$
 LT2 = 167.74' $Ts1 = 3,897.4'$
 ST1 = 58.67' $Es = 3,469.15'$
 ST2 = 84.31' $E_{max} = 0.079$
 x1 = 173.96' **DESIGN SPEED = 35 MPH**
 x2 = 246.97'

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE CR28 RAMP B
	PLAN SR823
	PLAN CR28 RAMP A
	PLAN CR28 RAMP C
	DRAINAGE PROFILES
	PAVEMENT ELEVATION DETAIL

10-0397.000
STATE OF OHIO

10-0396.000
STATE OF OHIO

10-0396.000
STATE OF OHIO

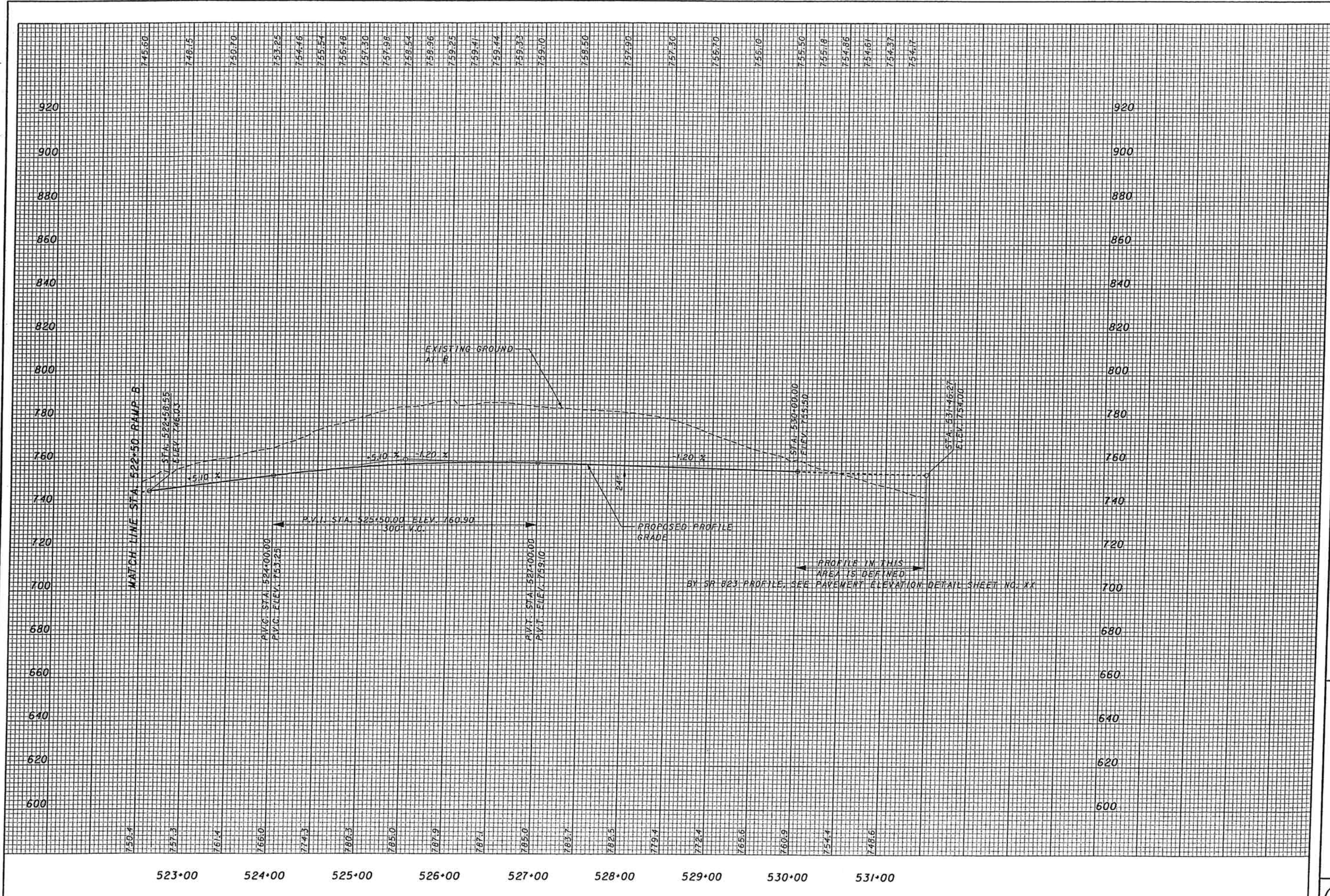


10-0396.000
STATE OF OHIO



PLAN - CR28 INTERCHANGE, RAMP B
 STA. 522+50.00 TO STA. 531+46.27

SCI-823-6.81



745.60	748.15	750.70	753.25	754.46	755.54	756.48	757.30	757.98	758.54	758.96	759.25	759.41	759.44	759.33	759.0	758.50	757.90	757.30	756.70	756.10	755.50	755.18	754.86	754.61	754.37	754.17
--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	-------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

750.4	757.3	761.4	766.0	774.3	780.3	785.0	787.9	787.1	785.0	783.7	782.5	779.4	772.4	765.6	760.9	754.4	748.6
523+00	524+00	525+00	526+00	527+00	528+00	529+00	530+00	531+00									

CALCULATED: JFA
 CHECKED: RM
 PROFILE - CR28 INTERCHANGE RAMP B
 STA. 522+50.00 TO STA. 531+46.27
 SCI-823-6.81
 90

10-0980.000
HELEN STANLEY

SR823 NB

SR823 SB

STA. 506+29.92
BEGIN CR28 RAMP C -
STA. 18+83.80, CR28

10-0975.000
DAVID L. AND
ANGELA S. YEAGLE

PRIVATE DRIVE

CR28
(LUCASVILLE-MINFORD ROAD)

10-0396.000
STATE OF OHIO

10-0396.000
STATE OF OHIO

07-0477.000
STATE OF OHIO

CR28 RAMP C

CR28 RAMP D

CONST. LIMITS

MATCH LINE STA. 513+50 CR28 RAMP C

CROSS REFERENCES

SHEET NO.	DESCRIPTION
	PROFILE CR28 RAMP C
	PLAN SR823
	PLAN CR28
	INTERSECTION DETAIL
	CULVERT DETAIL



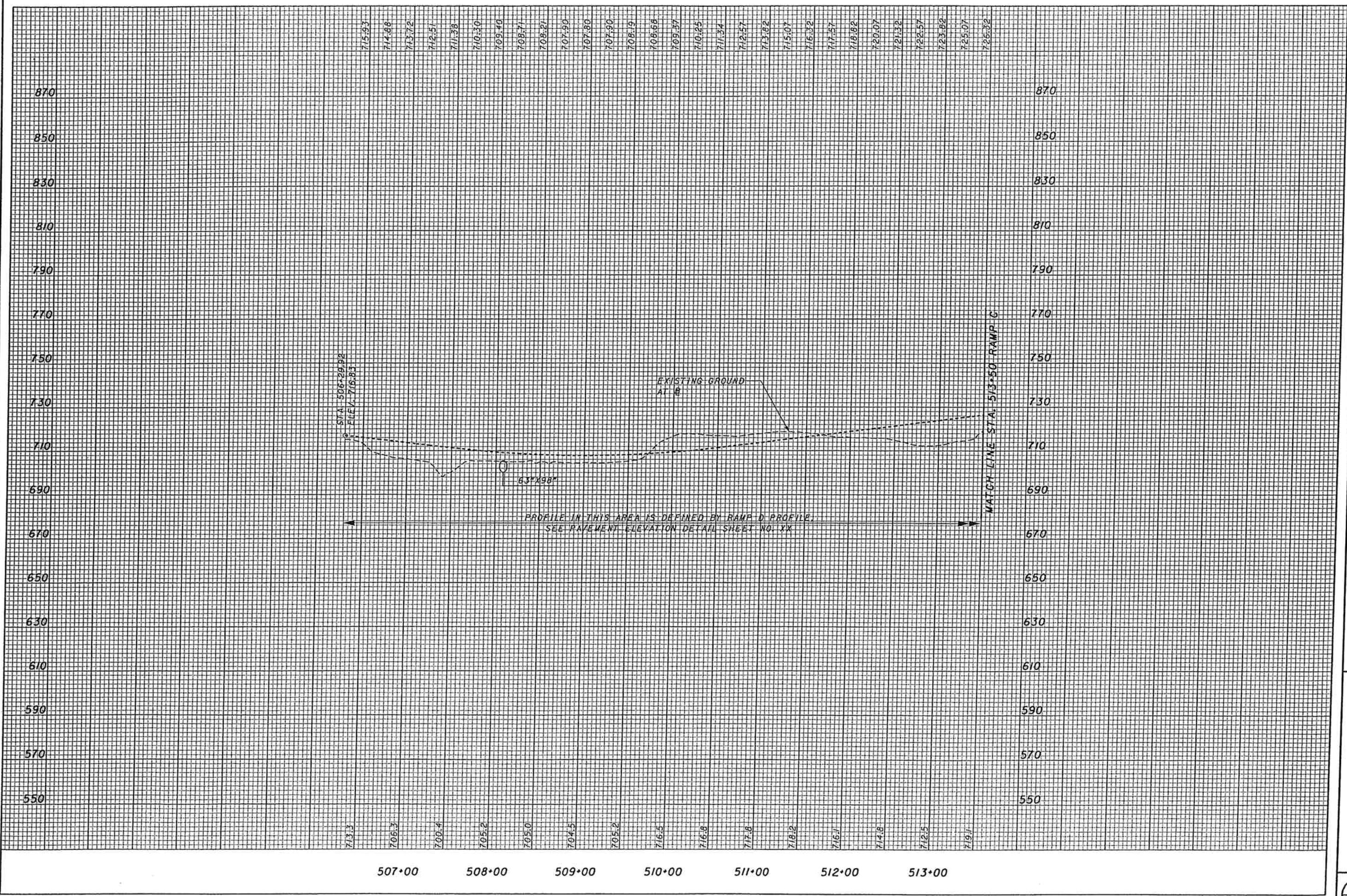
CALCULATED
DL/CAS
CHECKED
RN

PLAN - CR28 INTERCHANGE, RAMP C
STA. 506+29.92 TO STA. 513+50.00

SCI-823-6.81

MADISON TWP.
HARRISON TWP.

SEC. 31
SEC. 6



STA. 506+29.92
ELEV. 716.85

EXISTING GROUND
AT B

PROFILE IN THIS AREA IS DEFINED BY RAMP D PROFILE.
SEE PAVEMENT ELEVATION DETAIL SHEET NO. XX

MATCH LINE STA. 513+50 RAMP C

507+00 508+00 509+00 510+00 511+00 512+00 513+00

CALCULATED
JFA
CHECKED
RN

PROFILE - CR28 INTERCHANGE, RAMP C
STA. 506+29.92 TO STA. 513+50.00

SCI-823-6.81



PLAN - CR28 INTERCHANGE RAMP C
STA. 513+50.00 TO STA. 523+00.00

SCI-823-6.81

CURVE # CR28 RAMP C - 1

P.I. STA. - 527+65.85
 DELTA - 195° 11' 12" (LT)
 Dc - 16° 30' 00"
 R - 347.25'
 Ls - 200.00'
 Theta - 16° 30' 00" (LT)
 LT - 133.92'
 ST - 67.20'
 x - 198.35'
 y - 19.09'
 k - 99.72'
 p - 4.79'
 DELTAc - 16° 30' 00" (LT)
 Lc - 982.95'
 Tc - 2,215.79'
 Ts - 2,540.99'
 Es - 1,895.58'
 Emax - 0.079
 DESIGN SPEED - 35 MPH

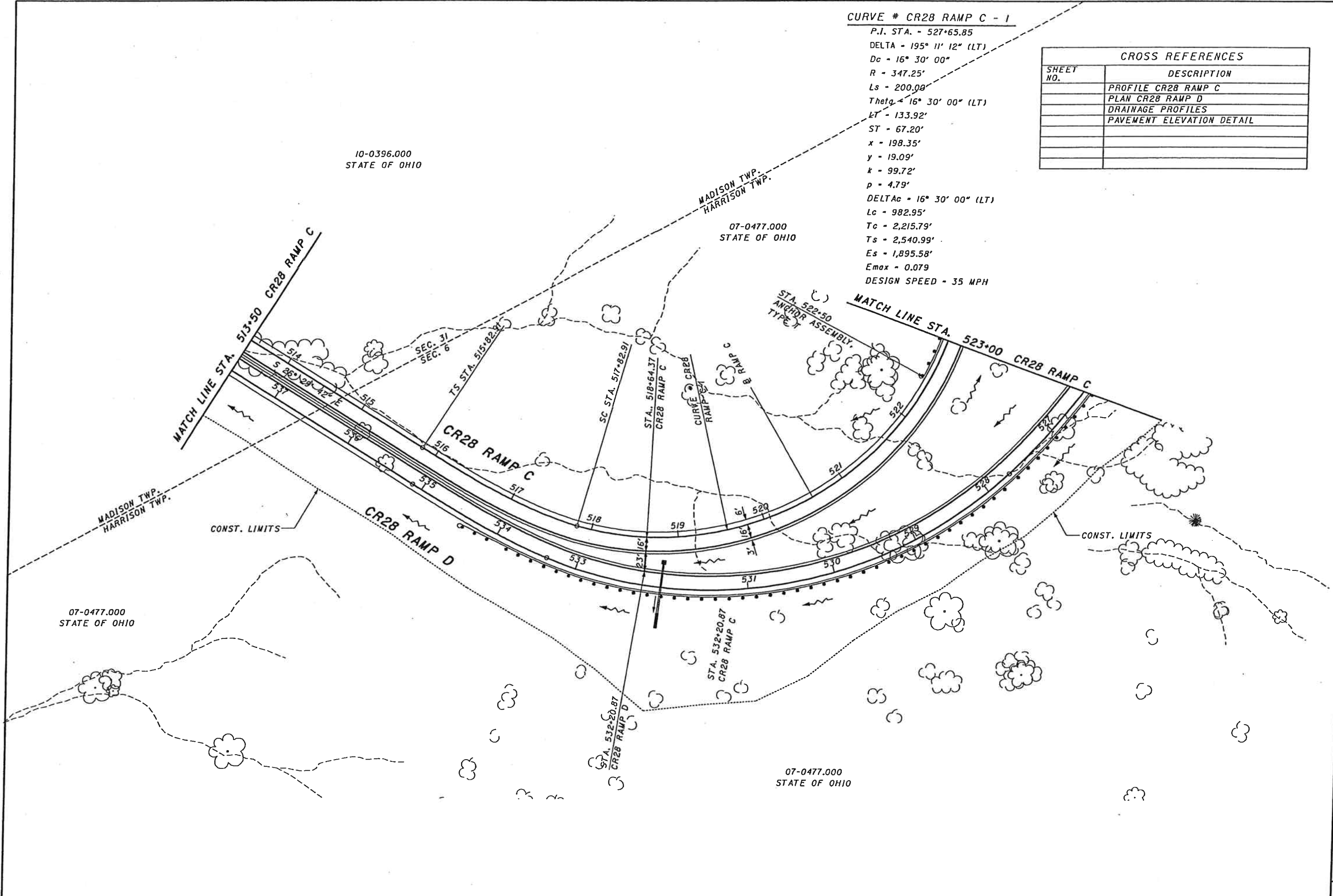
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE CR28 RAMP C
	PLAN CR28 RAMP D
	DRAINAGE PROFILES
	PAVEMENT ELEVATION DETAIL

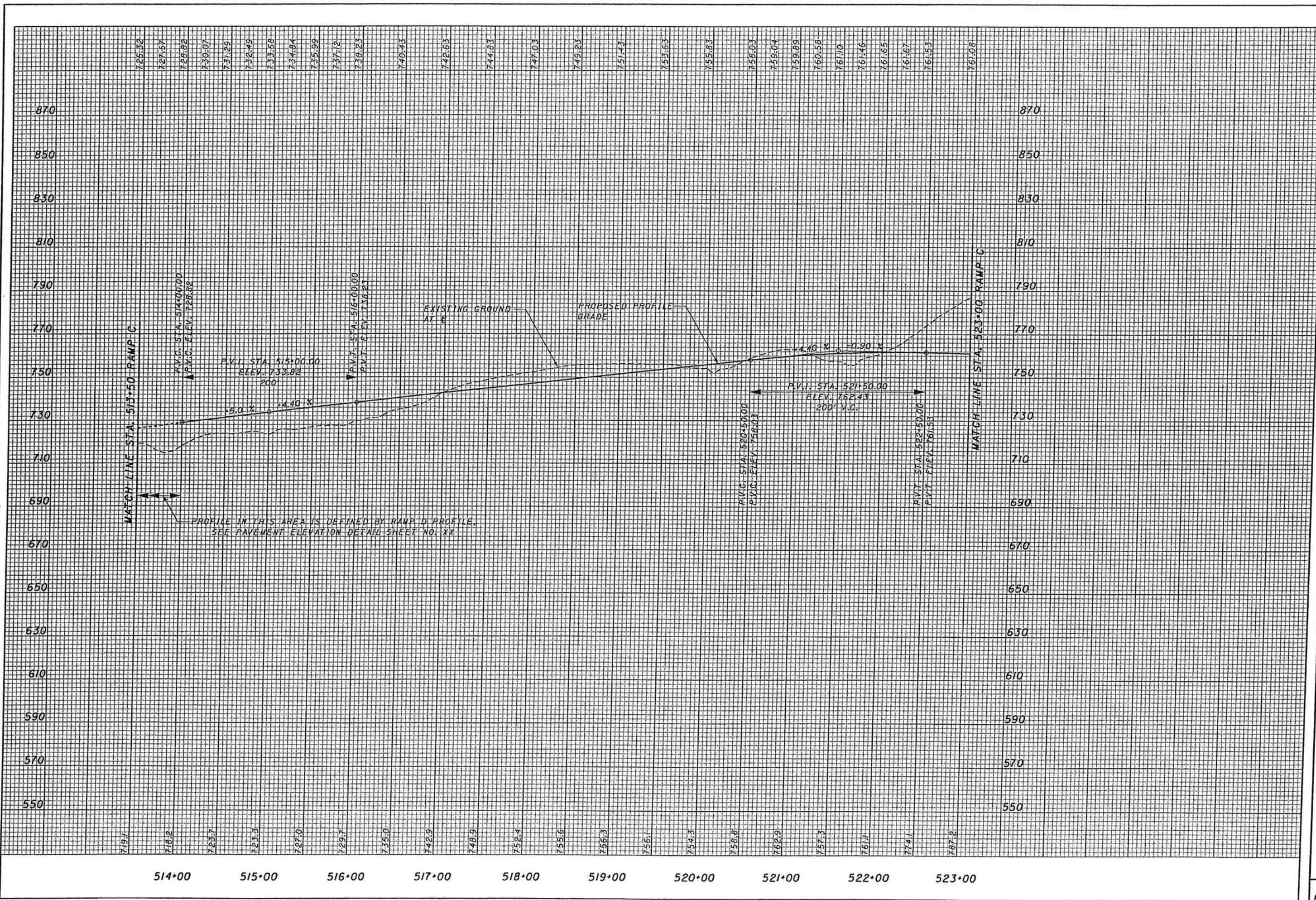
10-0396.000
STATE OF OHIO

07-0477.000
STATE OF OHIO

07-0477.000
STATE OF OHIO

07-0477.000
STATE OF OHIO





CURVE # CR28 RAMP C - 1

P.I. STA. - 527+65.85
 DELTA - 195° 11' 12" (LT)
 Dc - 16° 30' 00"
 R - 347.25'
 Ls - 200.00'
 Theta - 16° 30' 00" (LT)
 LT - 133.92'
 ST - 67.20'
 x - 198.35'
 y - 19.09'
 k - 99.72'
 p - 4.79'
 DELTAc - 16° 30' 00" (LT)
 Lc - 982.95'
 Tc - 2,215.79'
 Ts - 2,540.99'
 Es - 1,895.58'
 Emax - 0.079
 DESIGN SPEED - 35 MPH

CURVE # CR28 RAMP C - 2

P.I. STA. - 533+58.34
 DELTA - 7° 15' 00" (LT)
 Dc - 0° 55' 29"
 R - 6,195.25'
 T - 392.49'
 L - 783.93'
 E - 12.42'
 Emax - 0.027
 DESIGN SPEED - 60 MPH

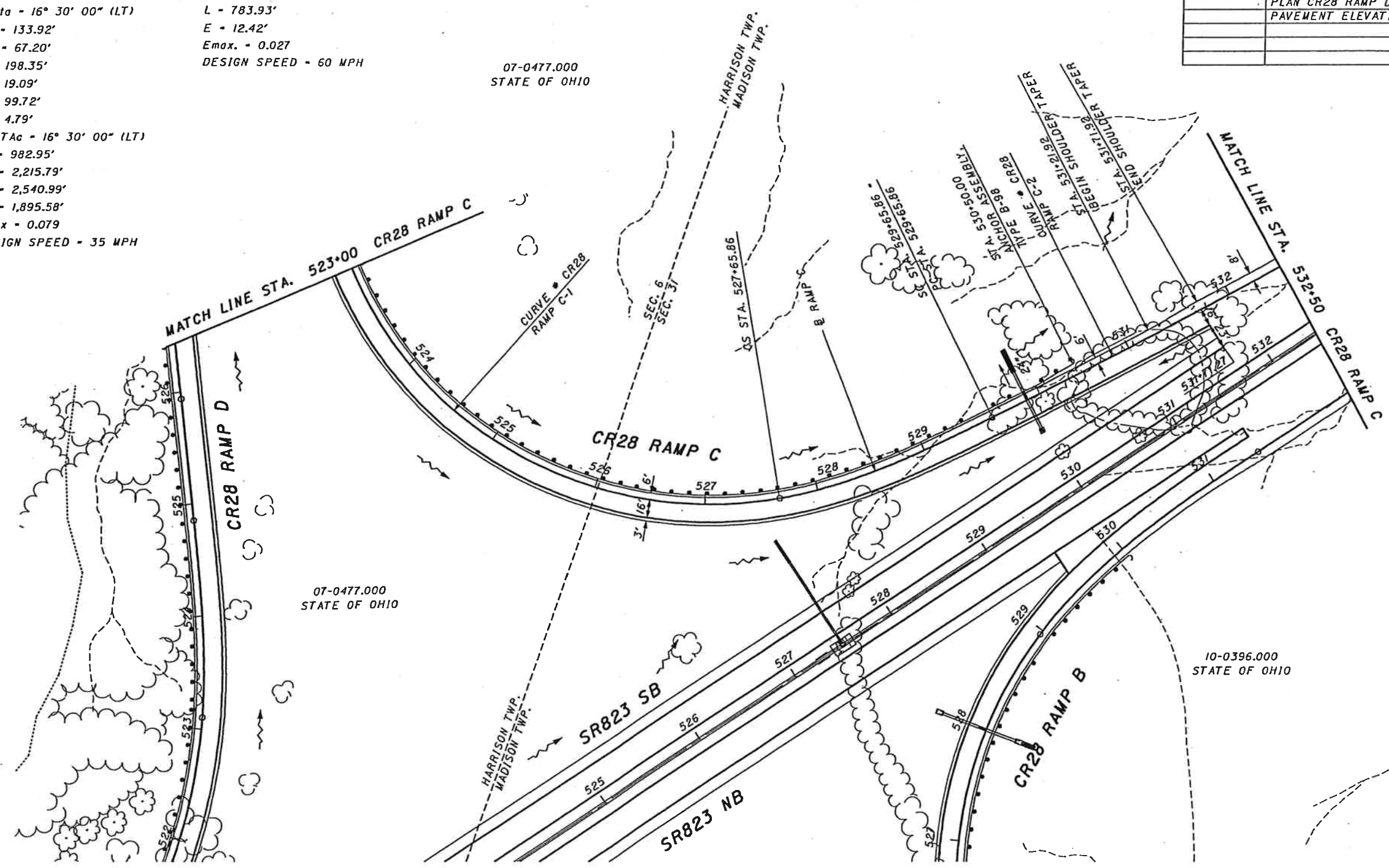
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE CR28 RAMP C
	PLAN SR823
	PLAN CR28 RAMP B
	PLAN CR28 RAMP D
	PAVEMENT ELEVATION DETAIL

10-0396.000
STATE OF OHIO

07-0477.000
STATE OF OHIO

07-0477.000
STATE OF OHIO

10-0396.000
STATE OF OHIO

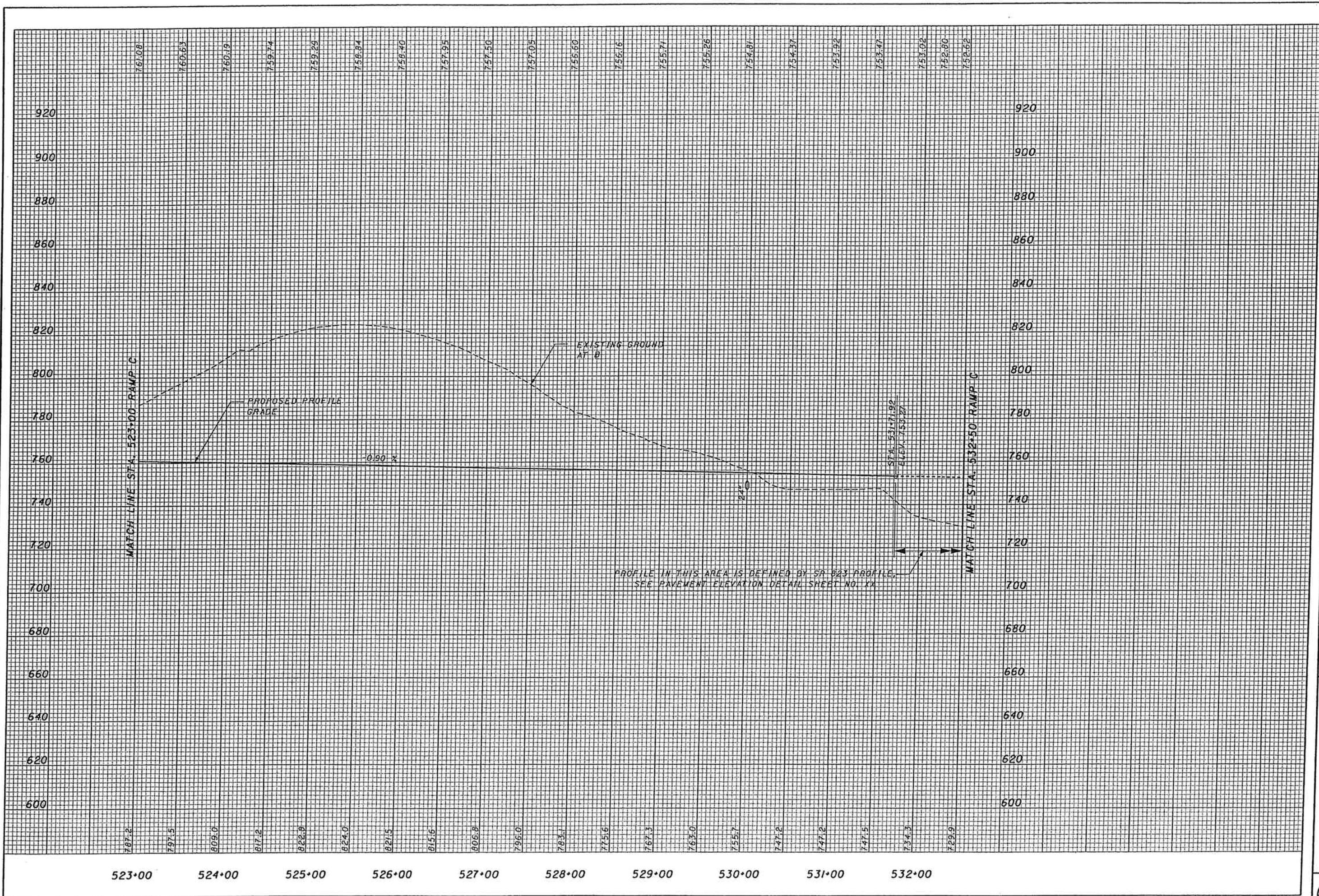


100
50
25
0
HORIZONTAL SCALE IN FEET

CALCULATED DL/CAS
CHECKED RN

PLAN - CR28 INTERCHANGE RAMP C
 STA. 523+00.00 TO STA. 532+50.00

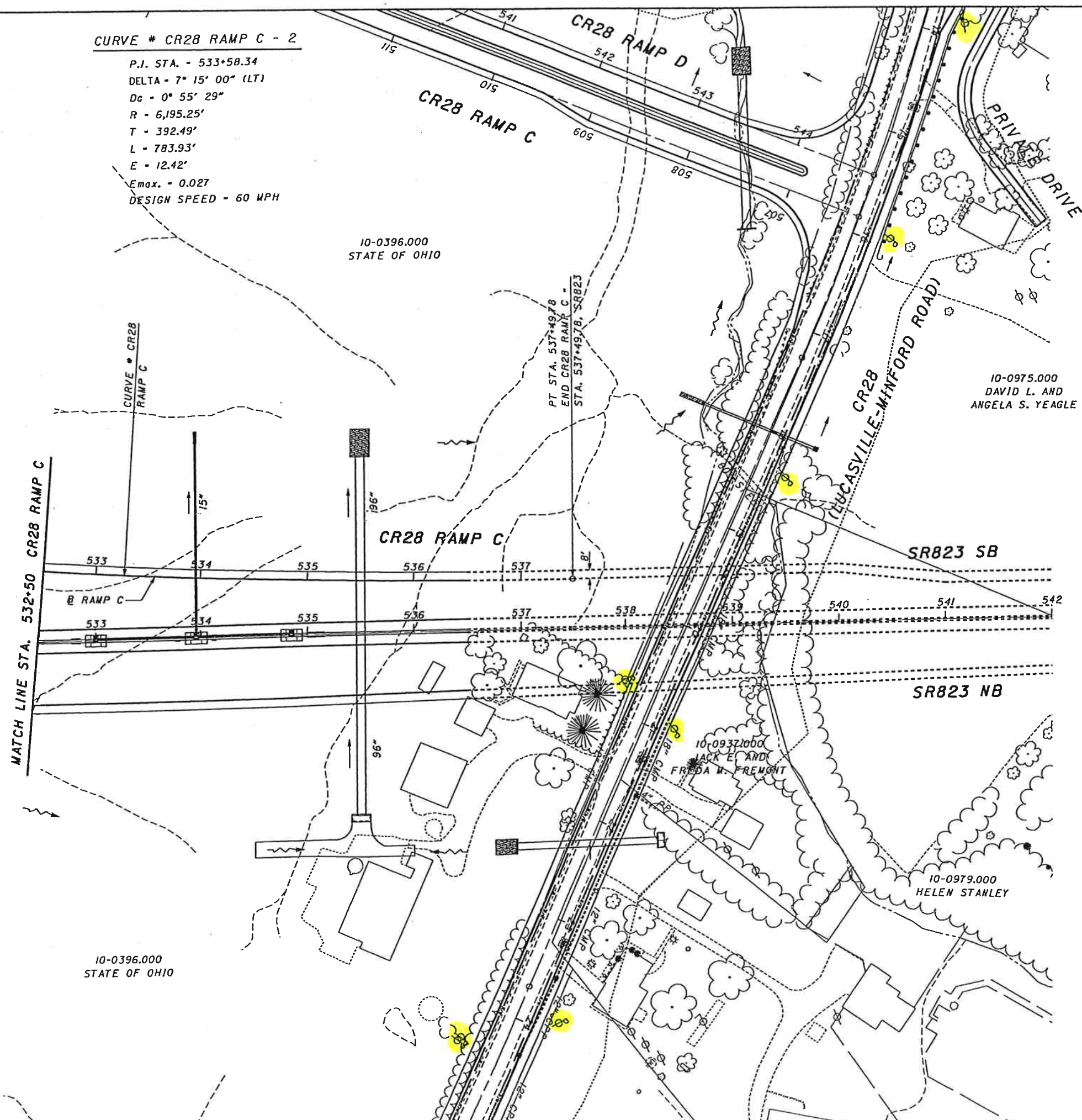
SCI-823-6.81



CURVE # CR28 RAMP C - 2

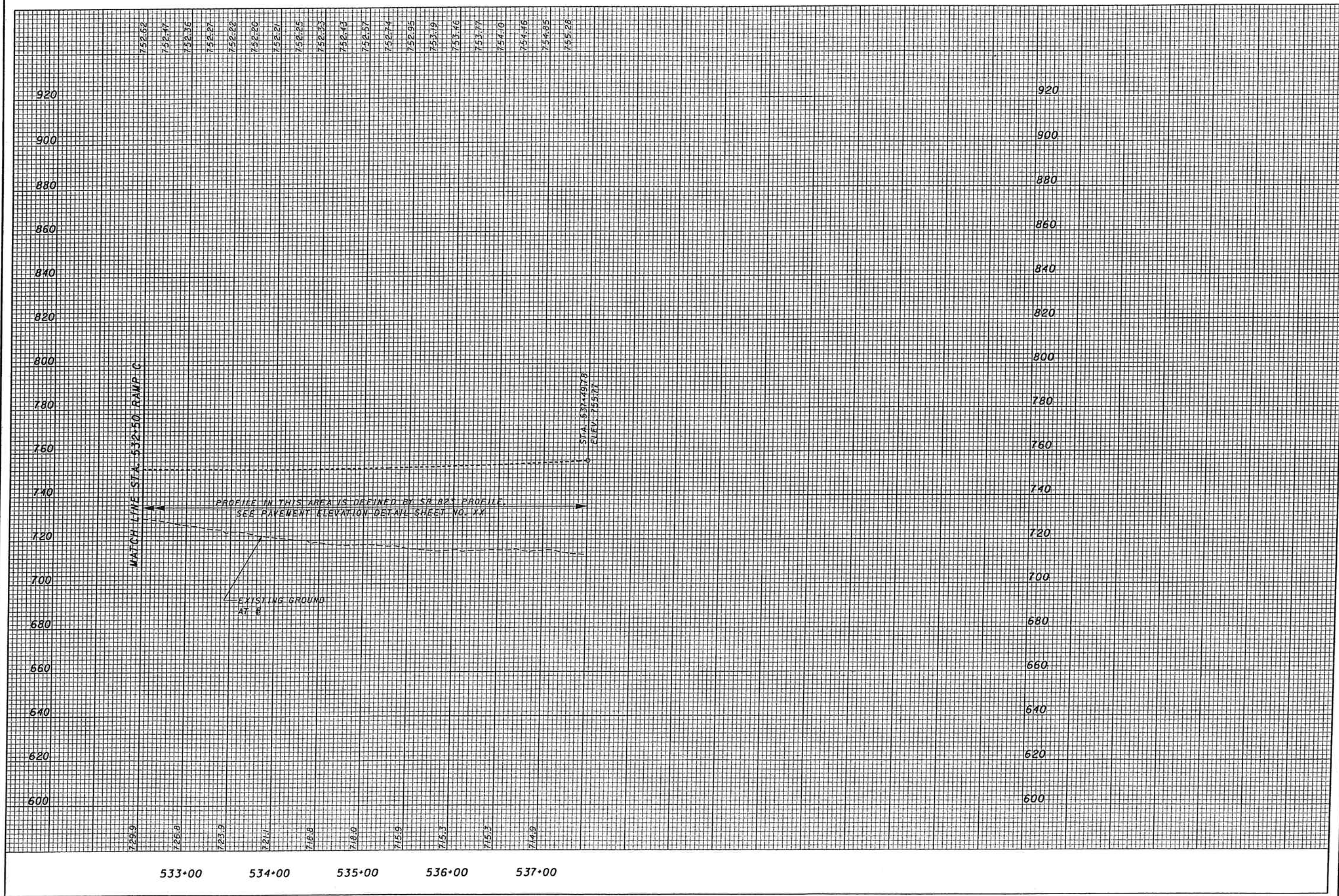
P.I. STA. - 533+58.34
 DELTA - 7° 15' 00" (LT)
 Dc - 0° 55' 29"
 R - 6,195.25'
 T - 392.49'
 L - 783.93'
 E - 12.42'
 Emax. - 0.027
 DESIGN SPEED - 60 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE CR28 RAMP C
	PLAN SR823
	PLAN CR28
	PLAN CR28 RAMP D
	INTERSECTION DETAIL
	CULVERT DETAIL
	DRAINAGE PROFILES
	PAVEMENT ELEVATION DETAIL



PLAN - CR28 INTERCHANGE RAMP C
STA. 532+50.00 TO STA. 537+49.78

SCI-823-6.81



752.62	752.47	752.36	752.27	752.22	752.20	752.21	752.25	752.33	752.43	752.57	752.74	752.95	753.19	753.46	753.77	754.10	754.46	754.85	755.26
729.9	726.8	723.9	721.1	718.8	718.0	715.9	715.3	715.3	714.9										
533+00	534+00	535+00	536+00	537+00															

SCI-823-8.61

PROFILE - CR28 INTERCHANGE RAMP C
STA. 532+50.00 TO STA. 537+49.78

CALCULATED JFA	CHECKED RN
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HORIZONTAL SCALE IN FEET
0 50 100

CALCULATED DL/CAS CHECKED RN

PLAN - CR28 INTERCHANGE RAMP D
STA. 517+50.00 TO STA. 527+50.00

SCI-823-6.81

99

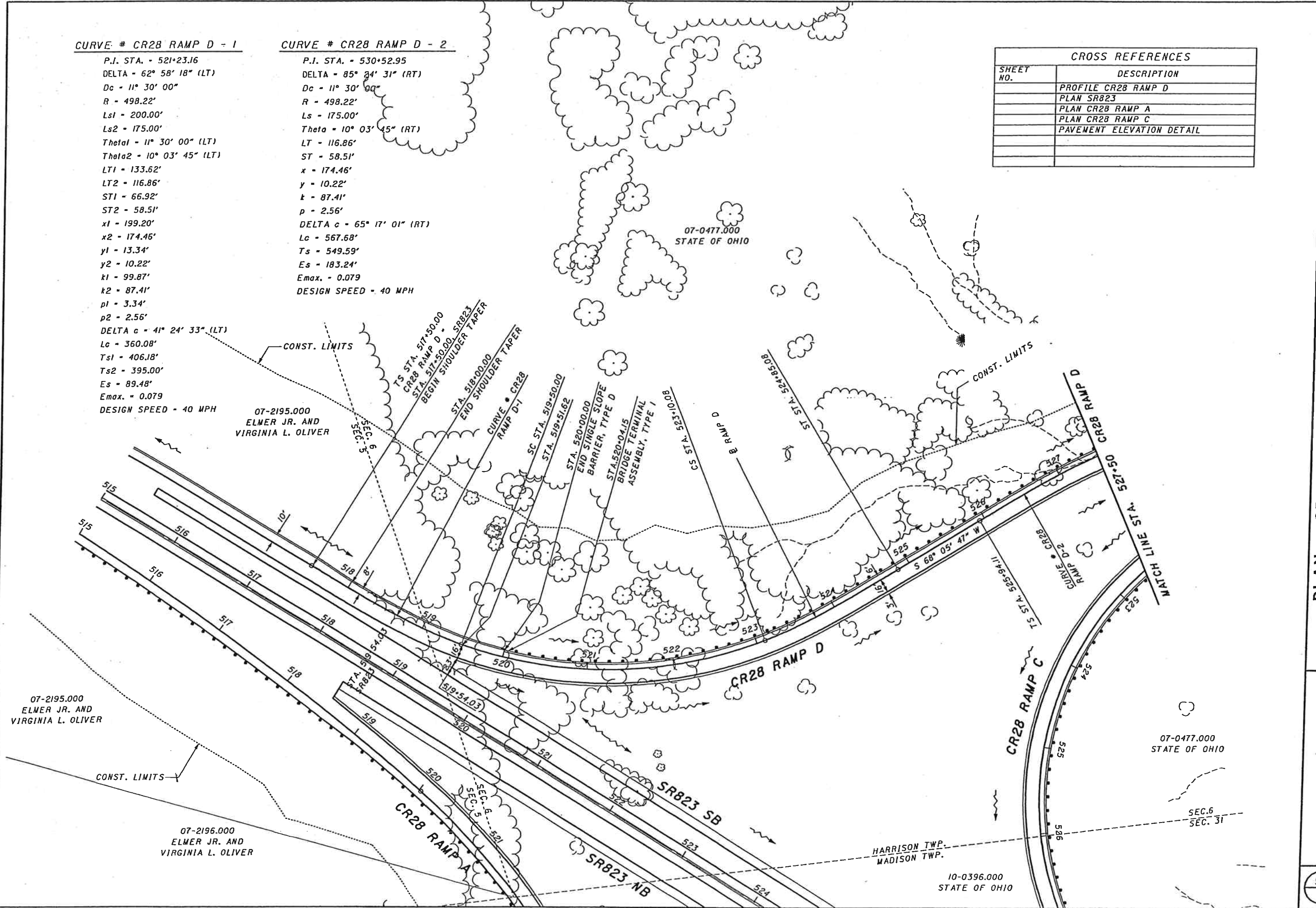
CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE CR28 RAMP D
	PLAN SR823
	PLAN CR28 RAMP A
	PLAN CR28 RAMP C
	PAVEMENT ELEVATION DETAIL

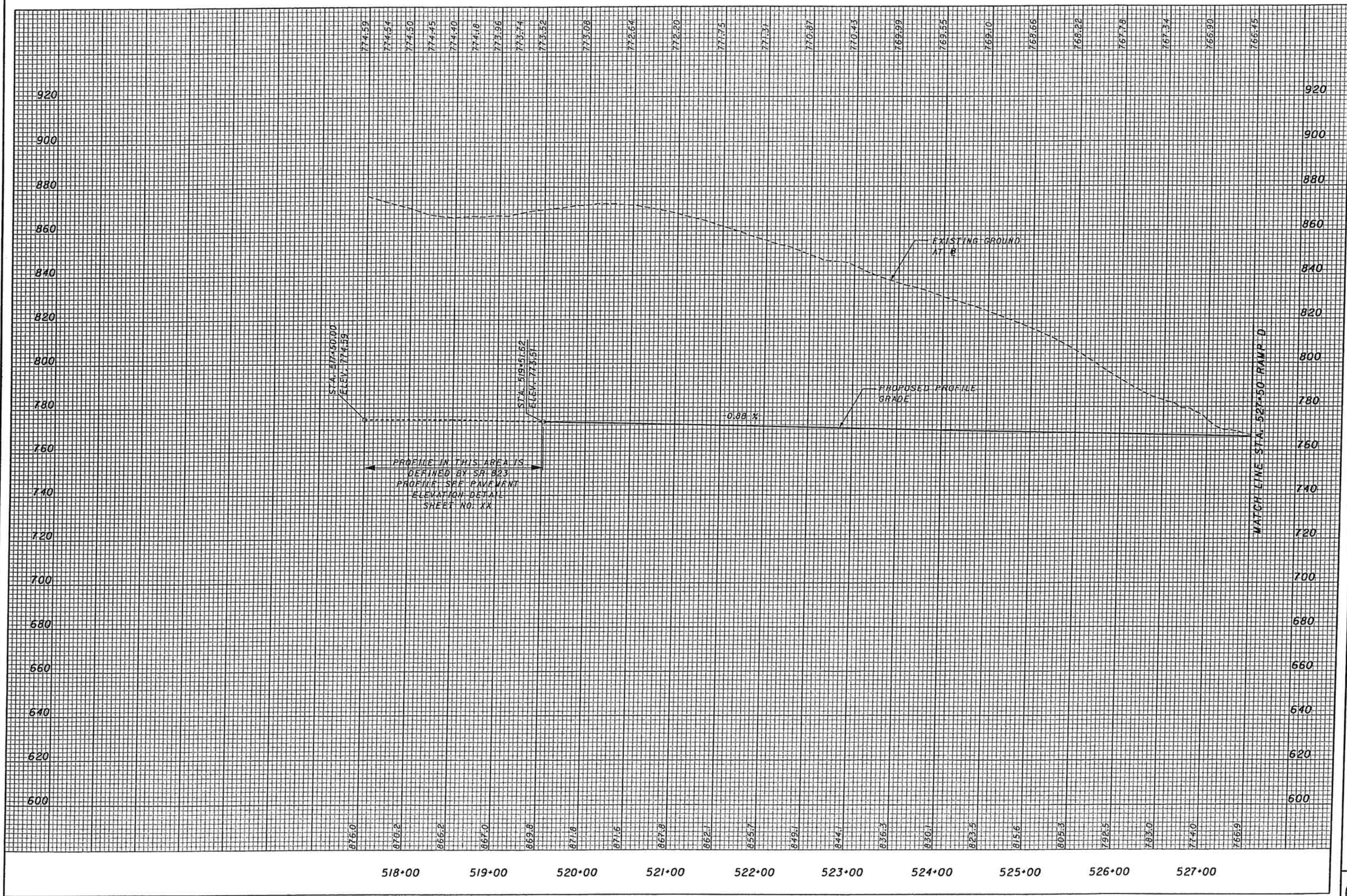
CURVE # CR28 RAMP D - 1

P.I. STA. - 521+23.16
 DELTA - 62° 58' 18" (LT)
 Dc - 11° 30' 00"
 R - 498.22'
 Ls1 - 200.00'
 Ls2 - 175.00'
 Theta1 - 11° 30' 00" (LT)
 Theta2 - 10° 03' 45" (LT)
 LT1 - 133.62'
 LT2 - 116.86'
 ST1 - 66.92'
 ST2 - 58.51'
 x1 - 199.20'
 x2 - 174.46'
 y1 - 13.34'
 y2 - 10.22'
 k1 - 99.87'
 k2 - 87.41'
 p1 - 3.34'
 p2 - 2.56'
 DELTA c - 41° 24' 33" (LT)
 Lc - 360.08'
 Ts1 - 406.18'
 Ts2 - 395.00'
 Es - 89.48'
 Emax. - 0.079
 DESIGN SPEED - 40 MPH

CURVE # CR28 RAMP D - 2

P.I. STA. - 530+52.95
 DELTA - 85° 34' 31" (RT)
 Dc - 11° 30' 00"
 R - 498.22'
 Ls - 175.00'
 Theta - 10° 03' 45" (RT)
 LT - 116.86'
 ST - 58.51'
 x - 174.46'
 y - 10.22'
 k - 87.41'
 p - 2.56'
 DELTA c - 65° 17' 01" (RT)
 Lc - 567.68'
 Ts - 549.59'
 Es - 183.24'
 Emax. - 0.079
 DESIGN SPEED - 40 MPH





PROFILE - CR28 INTERCHANGE RAMP D STA. 517+50.00 TO STA. 527+50.00	CALCULATED JFA CHECKED RN
SCI-823-6.81	100

07-0477.000
STATE OF OHIO

CURVE # CR28 RAMP D - 2

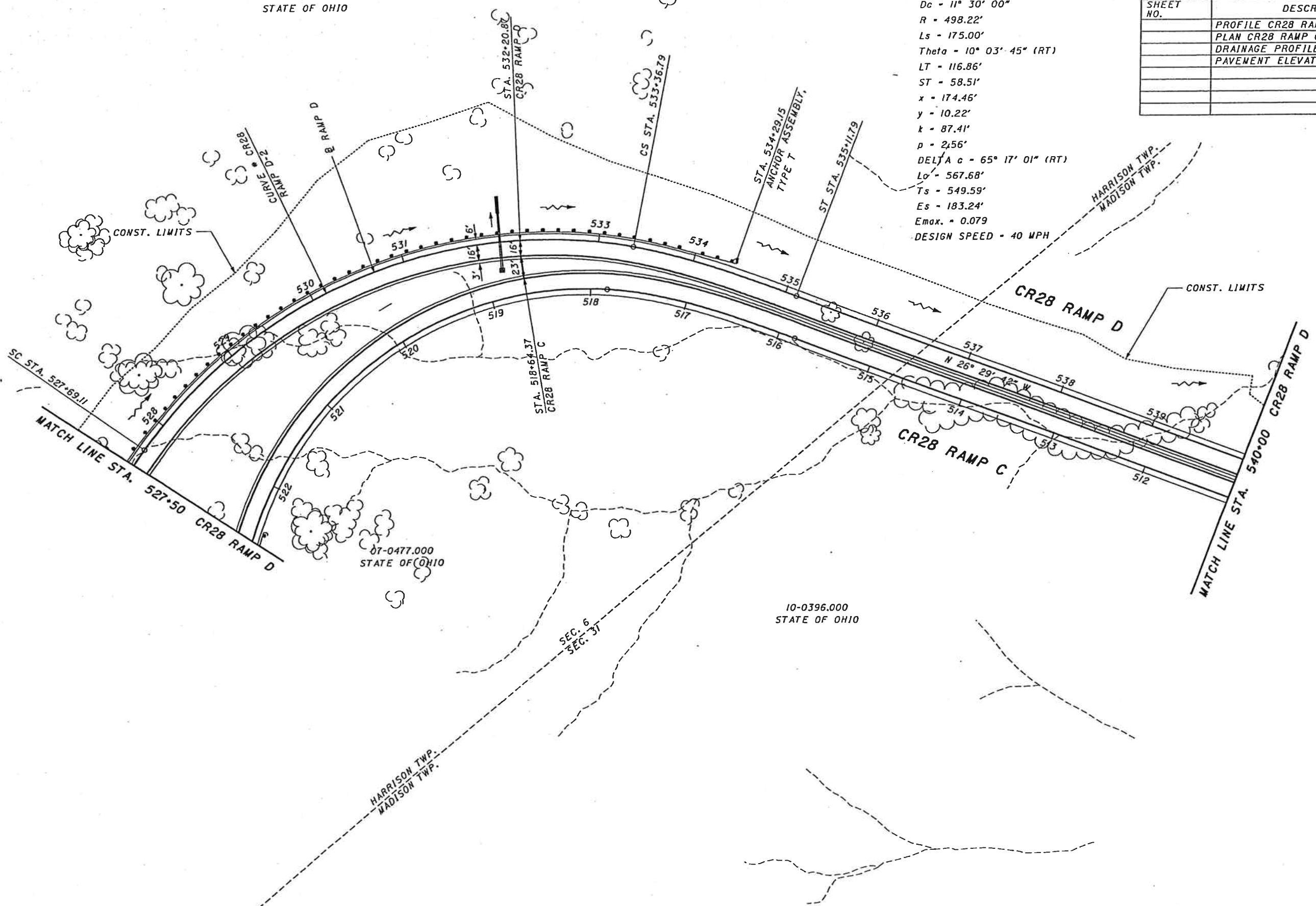
P.I. STA. = 530+52.95
 DELTA = 85° 24' 31" (RT)
 Dc = 11° 30' 00"
 R = 498.22'
 Ls = 175.00'
 Theta = 10° 03' 45" (RT)
 LT = 116.86'
 ST = 58.51'
 x = 174.46'
 y = 10.22'
 k = 87.41'
 p = 2.56'
 DELTA c = 65° 17' 01" (RT)
 Lc = 567.68'
 Ts = 549.59'
 Es = 183.24'
 Emax. = 0.079
 DESIGN SPEED = 40 MPH

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE CR28 RAMP D
	PLAN CR28 RAMP C
	DRAINAGE PROFILES
	PAVEMENT ELEVATION DETAIL

10-0396.000
STATE OF OHIO

HORIZONTAL SCALE IN FEET

CALCULATED DL/CAS
 CHECKED RW

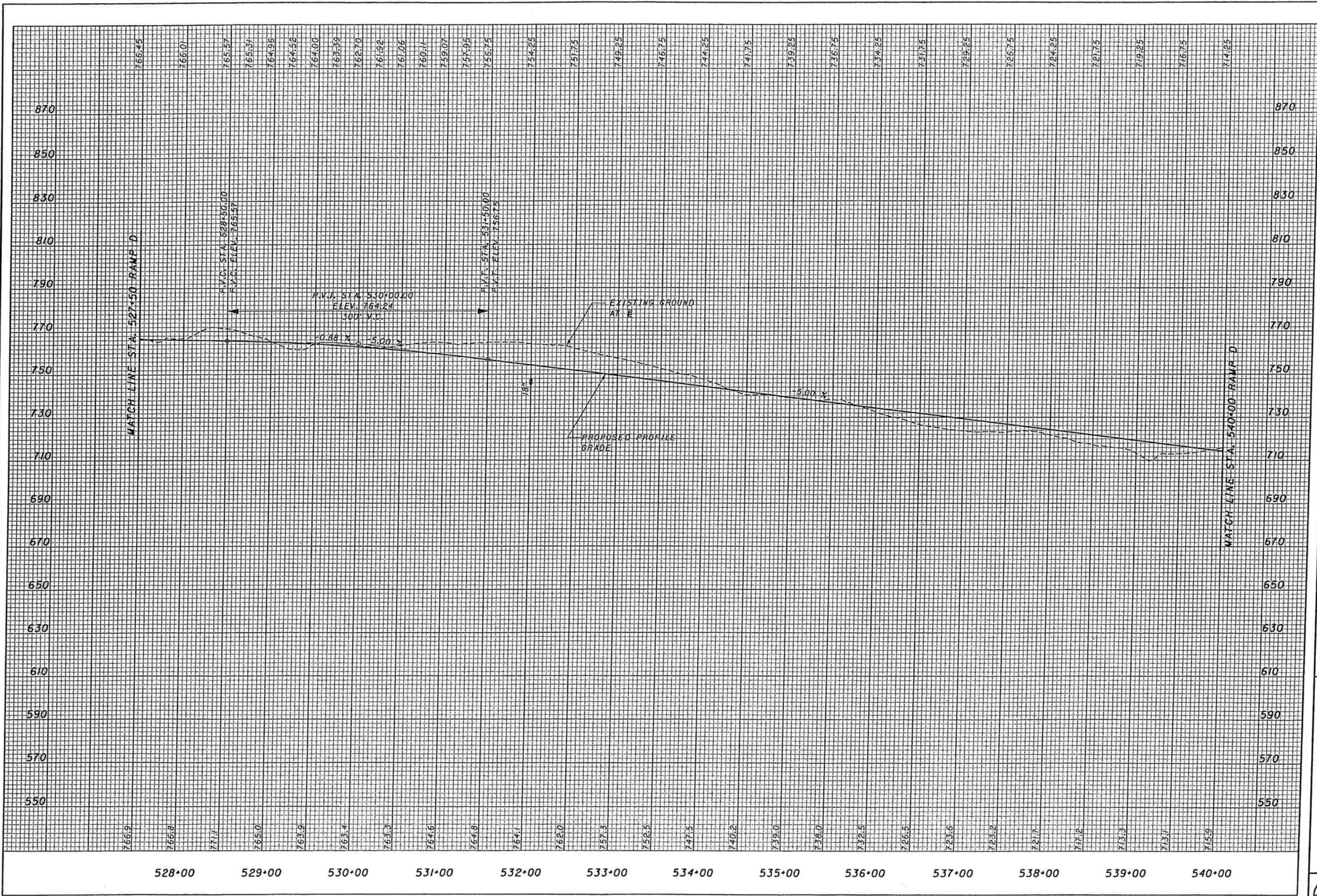


07-0477.000
STATE OF OHIO

10-0396.000
STATE OF OHIO

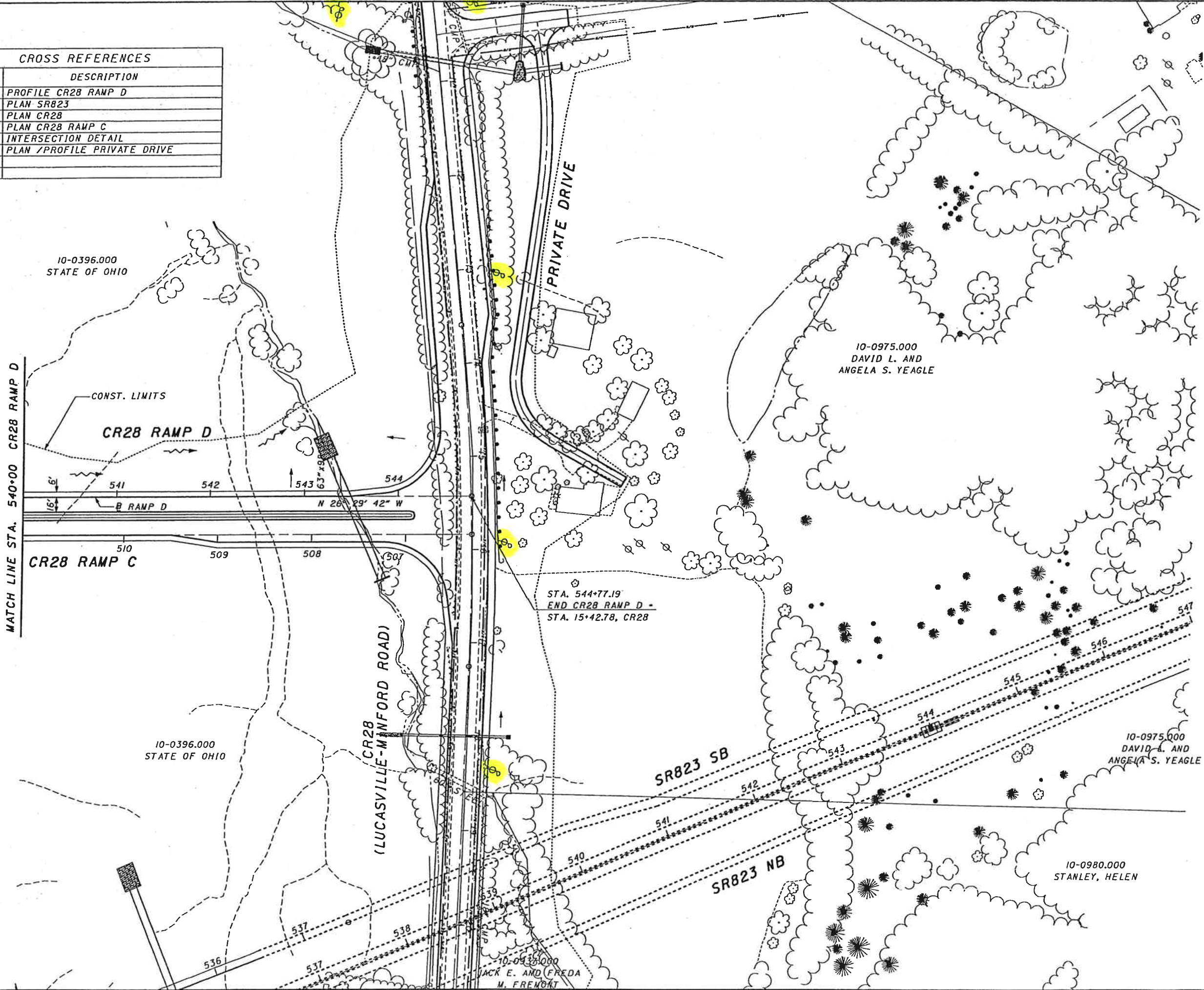
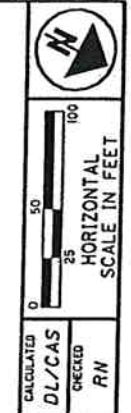
PLAN - CR28 INTERCHANGE RAMP D
 STA. 527+50.00 TO STA. 540+00.00

SCI-823-6.81



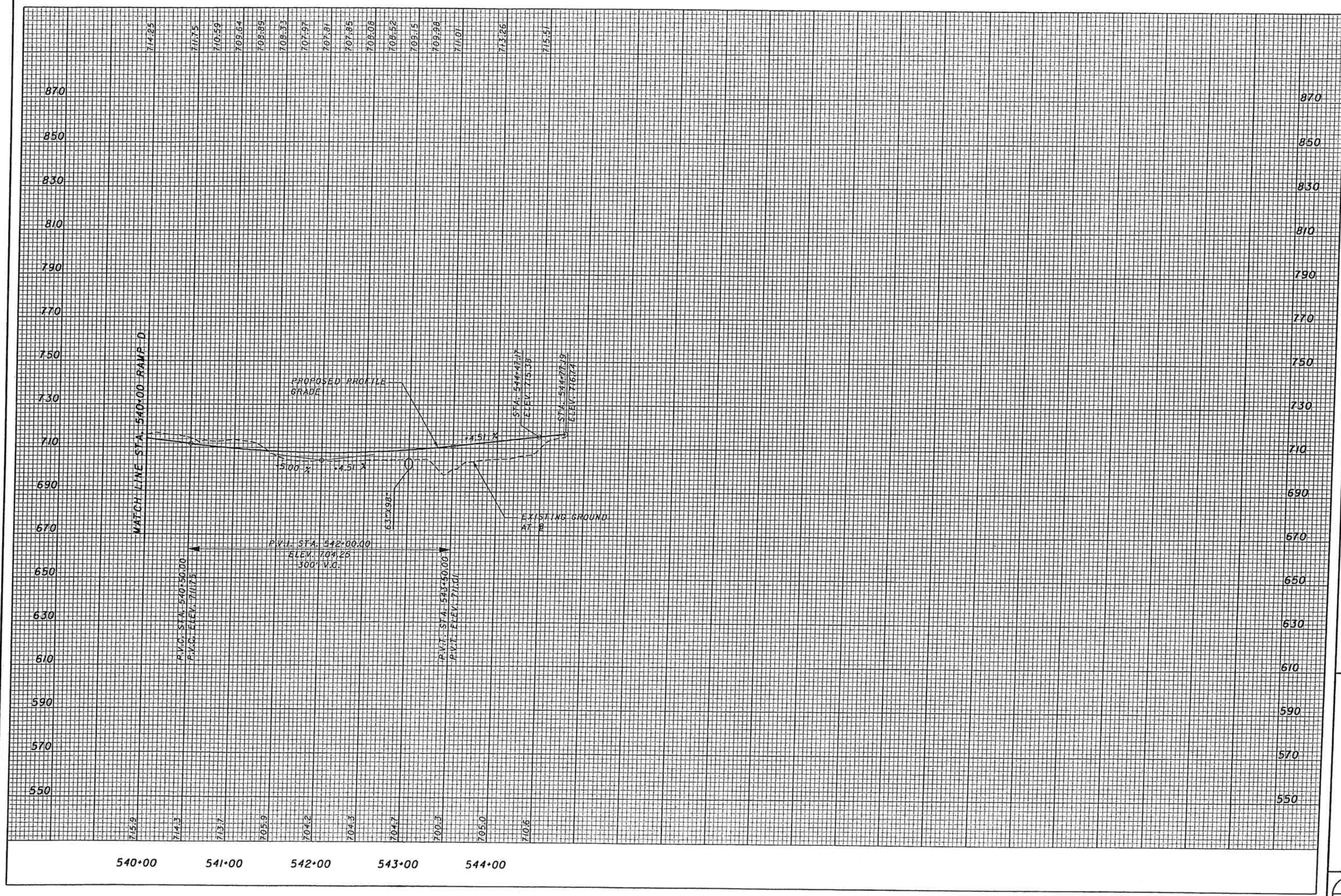
CALCULATED JFA
 CHECKED RN
SCI-823-6.81
PROFILE - CR28 INTERCHANGE RAMP D
STA. 527+50.00 TO STA. 540+00.00

CROSS REFERENCES	
SHEET NO.	DESCRIPTION
	PROFILE CR28 RAMP D
	PLAN SR823
	PLAN CR28
	PLAN CR28 RAMP C
	INTERSECTION DETAIL
	PLAN /PROFILE PRIVATE DRIVE



PLAN - CR28 INTERCHANGE RAMP D
 STA. 540+00.00 TO STA. 544+77.19

SCI-823-6.81



540+00 541+00 542+00 543+00 544+00

CALCULATED
JFA
CHECKED
RN

PROFILE - CR28 INTERCHANGE RAMP D
STA. 540+00.00 TO STA. 544+77.19

SCI-823-6.81