MICROFILMED
MAR 27 1985

MICROFILMED

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(17)32	

1/638

I-275-2(17)32

CLERMONT COUNTY
CLE.- 275-6.68

Reel F 106
471

CONVENTIONAL SIGNS

County Line
Military Survey Line
Township Line
Right of Way
Limited Access
Property Line
Construction Limits
Center Line
Fence
Water Main
Gas Main
Hedge
Stone Wall
Pole Lines
Valves
Meters
Hydrants
Manholes
Inlets and Catch Basins
Drains and Sewers
Culverts
Ditches
Creeks and Ponds
Trees and Stumps
Signs
Billboards
Guard Rail
Mail Box
Swamp or Marsh

℄ Existing — R/W — ℄ Prop.
LA R/W
℄

Power · Telephone · Light · Guy Wire
W Water Valve · G Gas Valve
W Water Meter · G Gas Meter
Existing ℄ · Prop. ℄
Existing ℄ · Prop. ℄
Existing · Prop.
Existing · Prop.
Existing · Prop.
Existing · Prop.
Creek · Pond
Existing · Advertizing Sign · Roadway Sign
Existing · Prop

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Omit Sheet Nos. 537-553

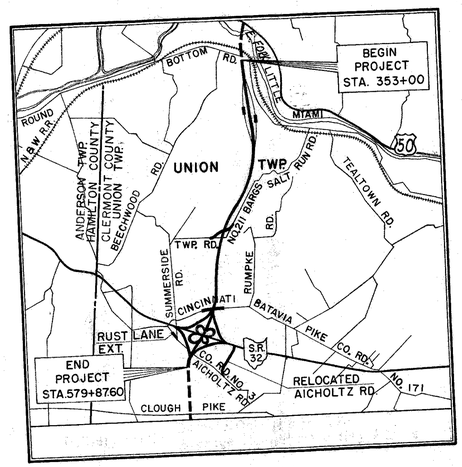
STATE OF OHIO

DEPARTMENT OF HIGHWAYS

CLE-275-6.68

UNION TOWNSHIP
CLERMONT COUNTY

ANDERSON TOWNSHIP
HAMILTON COUNTY



LOCATION MAP

SCALE OF MILES
0 1 2 3 4

Portion to be Improved
State Highways
Other Roads
Future Construction

SCALES
Plan 0 20 40 60 80 100 0 10 20 30 40
Profile Horizontal
Profile Vertical 0 5 10
Cross Sections 0 5 10 15 20

LINE DATA

Begin Project	Sta. 353+00.00	
End Project	Sta. 579+87.60	
Net Length of Project		22,687.60 Lin. Ft. or 4.296 Mi.
Add for Approaches		
North Approach Sta. 349+90.00 to Sta. 353+00.00		310.00 Lin. Ft.
South Approach Sta. 579+87.60 to Sta. 1873+25		129,337.40 Lin. Ft.
Twp. Rd. No. 211 (Bargs Salt Run Rd.) Sta. 39+50.00 to Sta. 54+50		1,500.00 Lin. Ft.
Co. Rd. No. 171 (Cinti.-Batavia Pike) Sta. 44+10.00 to Sta. 59+65.08		1,555.08 Lin. Ft.
S.R. 32 Sta. 54+60.00 to Sta. 110+30.81		5,570.81 Lin. Ft.
Rust Lane Sta. 9+00.00 to Sta. 17+42.50		842.50 Lin. Ft.
Rel. Aicholtz Rd. Sta. 28+42.00 to Sta. 49+16.47		2,074.47 Lin. Ft.
Deduct for Equations		-106,000.99 Lin. Ft.
Total Length of Work		57,876.87 Lin. Ft. or 10.961 Mi.

FILE NO.	CLERMONT COUNTY CLE-275-6.68
	DATE OF LETTING
	CONTRACT NUMBER

	SUPPLEMENTAL	PRINTS OF	STANDARD	CONSTRUCTION	DRAWINGS	
BP-2	12-1-68	F-1	3-10-69	HWE	6-1-65	SP-53 6-30-61
BP-3	12-1-68	F-2	3-10-69	L-1	6-1-65	SD-1-65 11-8-65
BP-4	12-1-68	F-3	3-10-69	MC-1	6-13-69	BR-1-65 Sht.1 11-24-65
BP-5	6-1-65	F-5	3-10-69	MC-3	6-20-69	RB-1-55 2-2-59
BP-6	6-1-65	F-6	10-1-66	MC-4	6-13-69	A3-1-67 6-12-69
BP-7	1-1-66	FAC1-1	9-15-67	MC-5	6-1-65	CB-23.24 6-1-65
CB-2-2-A&B	6-1-65	FAC1-2	6-1-65	MC-6	6-1-65	GR-1 1-1-67
CB-3	6-1-65	GR-2A	1-1-67	MC-7	10-1-68	
CB-4	9-1-69	GR-2B	2-15-68	MH-1	10-1-68	
CB-5	9-1-69	GR-5	1-15-68	MH-1A	10-1-68	
CB-6	6-1-65	GR-6	7-15-68	MH-2	10-1-68	

SUPPLEMENTAL		SPECIFICATIONS	
801	1-1-69		
808	1-1-69	938	8-12-69
811	1-1-69		
814	1-1-69	836	6-17-69
815	1-1-69	1001	1-1-69
816	1-1-69		

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 of Highways in accordance with the provisions of Section 5511.02 of the Revised Code of Ohio.

1969 SPECIFICATIONS

The standard specifications of the State of Ohio Department of Highways including changes and supplemental specifications listed in the proposal shall govern this improvement.

The Right of Way for this improvement will be provided by the State of Ohio.

I hereby approve these plans and declare that making of this improvement will not require the closing of the highway to traffic and that provisions for the maintenance and safety of traffic will be as set forth on these plans and estimates.

Approved Irwin C. Basler
Date 11-12-69 Division Deputy Director

Approved C. H. Detrate
Date 12-30-69 Engineer of Bridges

Approved R. E. Catlin
Date 12-30-69 Engineer of Location and Design

Approved George F. Thornagu
Date 12-30-69 Deputy Director of Design and Construction

Approved T. E. Conard
Date 1-15-70 Deputy Director of Right of Way

Approved Thomas M. Major
Date 1-15-70 Deputy Director of Planning and Programming

Approved [illegible]
Date 1-16-70 First Assistant Director

Approved P. E. Irwin
Date 1-16-70 Director of Highways

Sheet No. 559 revised 9-28-70 EBL

PREPARED BY
HARRY BALKE ENGINEERS
CINCINNATI, OHIO

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
BUREAU OF PUBLIC ROADS
APPROVED

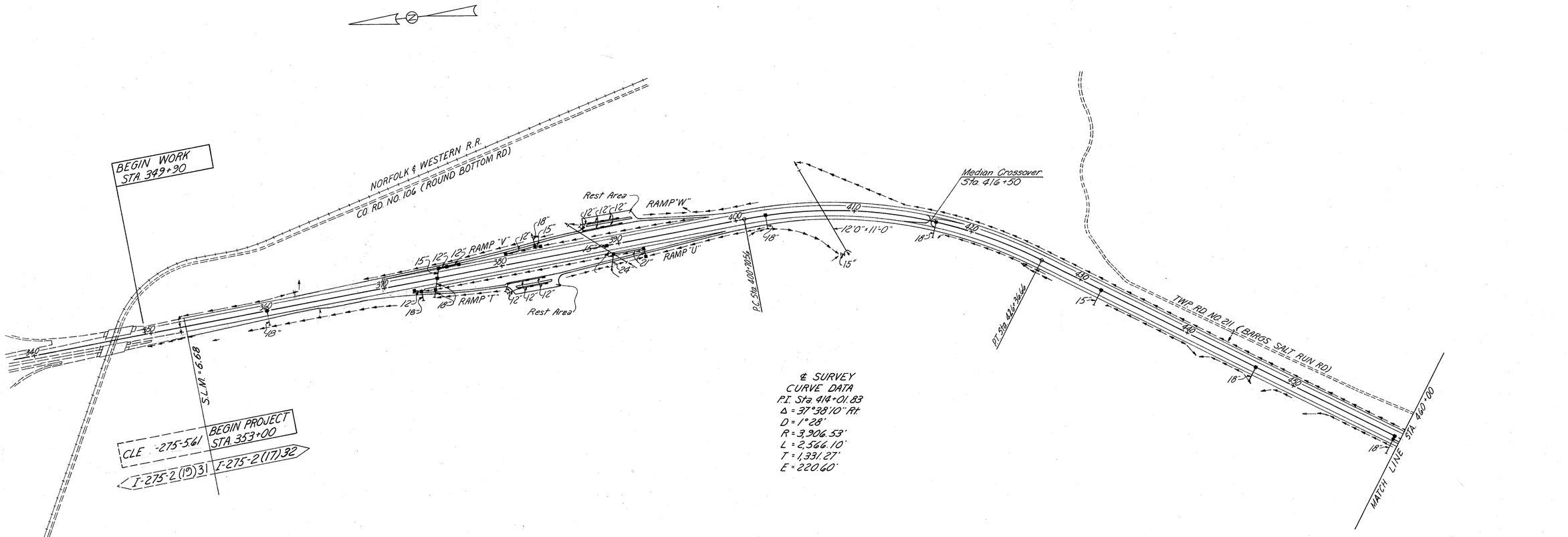
DIVISION ENGINEER — DATE

MICROFILMED
MAR 27 1985

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

2
638

CLERMONT COUNTY
CLE.-275-6.68



℄ SURVEY
CURVE DATA
P.I. Sta. 414+01.83
Δ = 37°38'10" Rt.
D = 1°28'
R = 3,906.53'
L = 2,566.10'
T = 1,331.27'
E = 220.60'

Note : Proposed Typical Section of Adjoining Pavement same as Normal Pavement Section on Sheet No. 4.

DESIGN DESIGNATION DATA

	N. of S.R. 32	S. of S.R. 32
Current A.D.T. (1967)	22,002	17,265
1987 Design Year A.D.T.	39,919	31,321
D.H.V.	4,391	3,445
Dir. Distribution	57%	57%
Truck Traffic	5%	5%
Design Speed	80 M.P.H.	80 M.P.H.

SCHEMATIC PLAN
SCALE: 1" = 400'

MICROFILMED
MAR 27 1985

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

3
638

CLERMONT COUNTY
CLE.-275-6.68

℄ SURVEY
CURVE DATA
P.I. Sta. 473+51.04
Δ = 17°26'30"
D = 0°45'00" Lt.
R = 7,639.44'
L = 2,325.56'
T = 1,171.84'
E = 89.35'
SE = .032 ft

MATCH LINE STA 460+00

P.C. Sta. 461+73.80

Sta 54+50
End Work
Cul-De-Sac

28° Curve

Sta 473+75 Cle. 275
Sta. 50+00 TWP. RD. NO 211
(BARGS SALT RUN)
CLE.-275-0896

BARGS SALT RUN RD.

23° Curve

Cul-De-Sac

Sta 39+50
Begin Work

TWP. RD. NO. 211 (BARGS SALT RUN)

P.T. Sta. 485+04.76

Diane Drive

Danny Drive

Median Crossover
Sta. 514+00

Melody Lane

P.C. Sta. 517+50.50

CO. RD. NO. 171 (CINCINNATI)

F.A.C.I. Sign

End Work
Sta. 59+65.08

Sta. 532+73.25 I-275 =
Sta. 50+00 CO. RD. NO. 171
CINCINNATI BATAVIA PK.
CLE-275-1008

19°05'55" Curve

Begin Work
Sta. 44+10

F.A.C.I. Sign

BATAVIA PIKE

℄ SURVEY
CURVE DATA
P.I. Sta. 532+30.07
Δ = 13°44'35"
D = 0°28'00" Rt.
R = 12,277.67'
L = 2,944.94'
T = 1,479.57'
E = 88.83

Note: See General Notes for Location of F.A.C.I Signs Sheet No. 21

Sta. 550+79.92 I-275 =
Sta. 79+12.47 S.R. 32
CLE-275-1042

19°05'55" Curve

For Temporary Road
See Sheet No 13

F.A.C.I Sign

Sta 106+40 S.R. 32 =
Sta 49+60.22 Rel. Aicholtz

Exist. 27"

Exist. 27"

Sta 110+30.81
End Work

RELOCATED AICHOLTZ ROAD

Sta 49+16.47
End Work

Sta 28+42.00
Begin Work

Sta 12+00
End Work

CO. RD. NO. 3 (AICHOLTZ)

P.C. Sta. 567+77.91

Cul-De-Sac

RAMP H
RAMP I
RAMP J
RAMP K
RAMP L
RAMP M
RAMP F
RAMP G

P.T. Sta. 575+44

Drive

Cul-De-Sac

Cul-De-Sac

AICHOLTZ

Sta. 17+42.50
End Work

EAST LANE EXTENSION

S.R. 32

Sta. 9+00.00
Begin Work

F.A.C.I. Sign
Sta. 54+60
Begin Work

℄ SURVEY
CURVE DATA
P.I. Sta. 579+27.27
Δ = 22°41'10" Lt.
D = 1°00'00"
R = 5,729.58'
L = 2,268.61'
T = 1,149.36'
E = 114.14'
SE = 0.042 ft

END Grading
STA. 582+15

Match Line

S.L.-M-10.26

END PROJECT CLE-275-10.80
STA. 579+87.60 HAM-275-33.96

I-275-2(17)32 I-275-2(6)36

Match Line
Sta. 582+15

Sta. 701+89.84 Bk. =
Sta. 701+98.72 Ah.

Clermont Co. Sta. 733+16.69 Bk. =
Hamilton Co. Sta. 1739+08.80 Ah.

End Work Sta. 1879+25

Note: Proposed Typical Section of Adjoining Pavement Same as Superelevation Section on Sheet No. 6

SCHEMATIC PLAN
SCALE: 1" = 400'

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

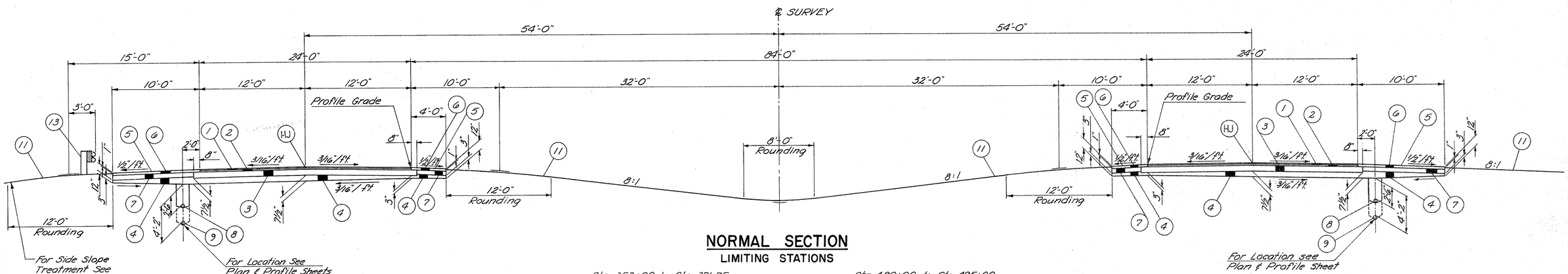
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CLERMONT COUNTY
CLE.-275-6.68

TYPICAL SECTIONS

TYPE 404 ON 301

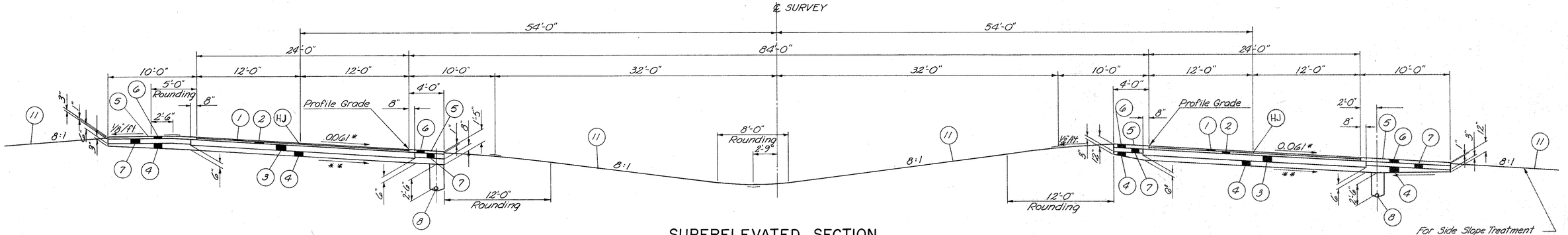
0 5 10
Scale in Feet



NORMAL SECTION

LIMITING STATIONS

Sta. 353+00 to Sta. 371+75
Sta. 430+25 to Sta. 433+50 Right Side Only
Sta. 433+50 to Sta. 443+45
Sta. 443+45 to Sta. 450+75 Right Side Only
Sta. 450+75 to Sta. 453+25
Sta. 480+00 to Sta. 495+00
Sta. 510+75 to Sta. 518+25
Sta. 523+50 to Sta. 529+00
Sta. 544+00 to Sta. 564+75



SUPERELEVATED SECTION

FOR 1°28' CURVE

LIMITING STATIONS

Sta. 399+00 to Sta. 415+75
Sta. 423+50 to Sta. 430+25 Right Side Only

* For Elevations See Superelevation Tables on Sht. No. 11
** Same as Superelevation

Note: There shall be a 1" drop from the Surface of the Paved Shoulder to the Earth Shoulder except on the 4' wide High Side of a Superelevated Section

(1) Item 404, 1¼" Asphalt Concrete (70-85)
(2) Item 402, 1¾" Asphalt Concrete (70-85)
(3) Item 301, 8" Bituminous Aggregate Base: 702.01 (85-100) or 702.09, RT-11 or RT-12 (Place in two 4" courses)
(4) Item 310, Subbase (Depth as Shown)
(5) Item 409, Seal Coat, using 0.008 cu. yd. No. 8 cover aggregate per sq. yd. and 0.30 gal. bituminous material per sq. yd. (See Note in Proposal)
(6) Item 301, 3" Bituminous Aggregate Base: 702.01 (85-100) or 702.09, RT-11 or RT-12
(7) Item 304, 6" Aggregate Base
(8) Item 605, 6" Shallow Pipe Underdrain
(9) Item 605, 6" Deep Pipe Underdrain
(10) Item 605, 6" 707.01 Type III or 707.12 Pipe Underdrain
(11) Item 659, Seeding and Mulching, as per plan (See General Notes)
(12) Item 606, Guard Rail, Type 4
(13) Item 606, Guard Rail, Type 5
(14) Item 404, 1¼" Asphalt Concrete (85-100)
(15) Item 402, 1¼" Asphalt Concrete (85-100)
(16) Item 408, Bituminous Prime Coat; 702.09, RT 2 or RT 3 applied at the rate of 0.40 Gals. per Sq. Yd.)
(17) Item 304, 12" Aggregate Base (Placed in two 6" courses)
(18) Item 605, Aggregate Drain
(19) Item 301, 6" Bituminous Aggregate Base: 702.01 (85-100) or 707.09, RT-11 or RT-12
(20) Item 402, 1¼" Asphalt Concrete (70-85)
(21) Item 310, 5" Subbase
(HJ) Hot Longitudinal Joint (See Note in Proposal)

MAINLINE
TYPICAL SECTIONS

TYPICAL SECTIONS

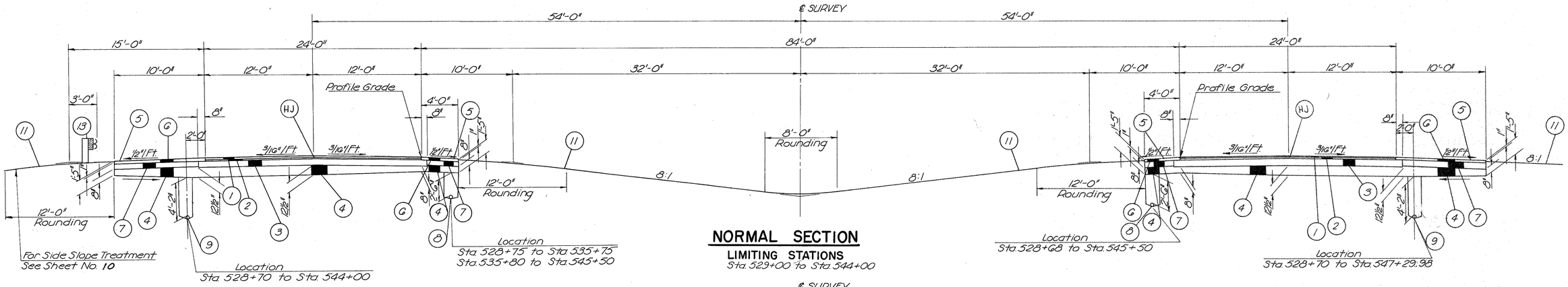
TYPE 404 ON 301

0 5 10
Scale in Feet

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

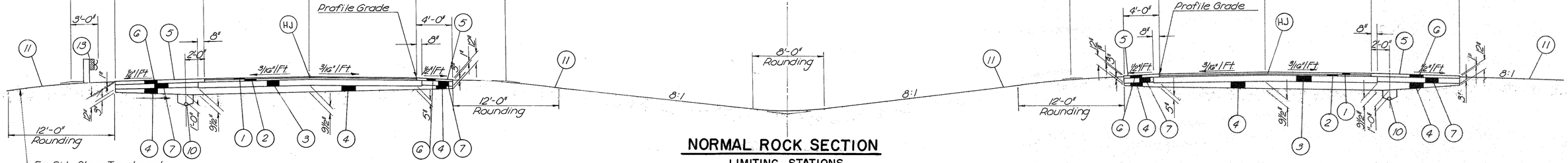
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CLERMONT COUNTY
CLE-275-6.68



NORMAL SECTION

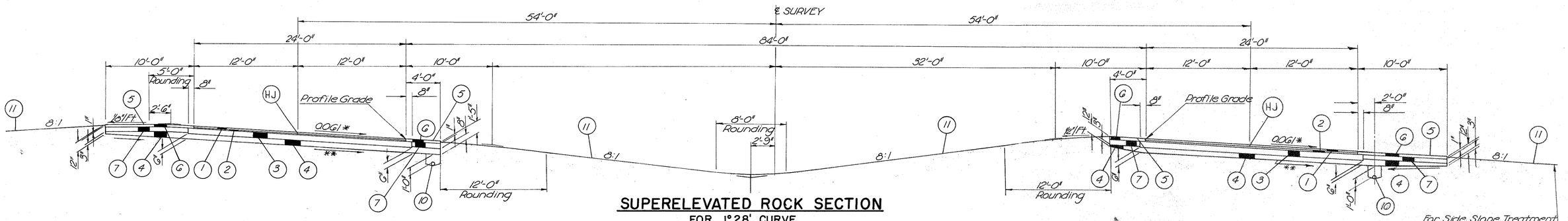
LIMITING STATIONS
Sta. 529+00 to Sta. 544+00



NORMAL ROCK SECTION

LIMITING STATIONS

Sta. 371+75 to Sta. 397+00
Sta. 430+25 to Sta. 433+50 Left Side Only
Sta. 443+45 to Sta. 450+75 Left Side Only
Sta. 453+25 to Sta. 458+75
Sta. 495+00 to Sta. 510+75
Sta. 518+25 to Sta. 523+50



SUPERELEVATED ROCK SECTION

FOR 1°28' CURVE

LIMITING STATIONS

Sta. 397+00 to Sta. 399+00
Sta. 415+75 to Sta. 429+50
Sta. 429+50 to Sta. 430+25 Left Side Only

* For Elevations See Superelevation Tables on Sheet No's 11
** Same as Superelevation.

Notes:
For Item Legend See Sheet No. 4
There shall be a 1" drop from the Surface of the Paved Shoulder to the Earth Shoulder except on the 4' wide High Side of Superelevated Sections.

Note: Whenever Superelevation is greater than ½ inch/Ft. Shoulder Slope must be same as mainline Superelevation.

MAINLINE
TYPICAL SECTIONS

TYPICAL SECTIONS

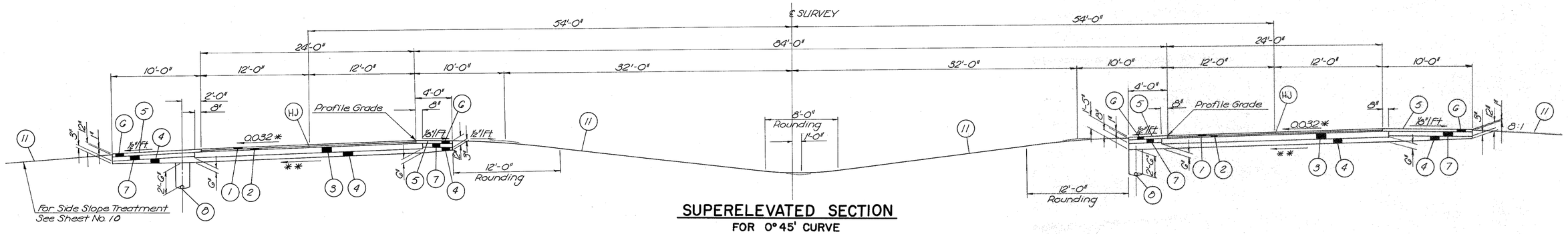
TYPE 404 ON 301

0 5 10
Scale in Feet

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

6
638

CLERMONT COUNTY
CLE-275-6.68

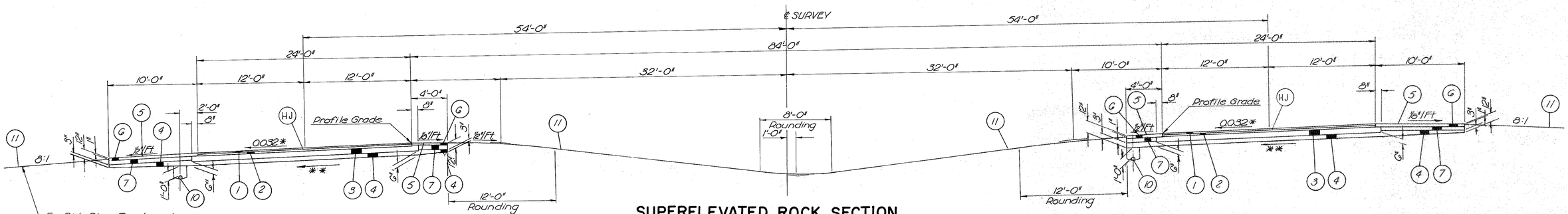


SUPERELEVATED SECTION

FOR 0°45' CURVE

LIMITING STATIONS

Sta. 459+00 to Sta. 461+25 Right Side Only

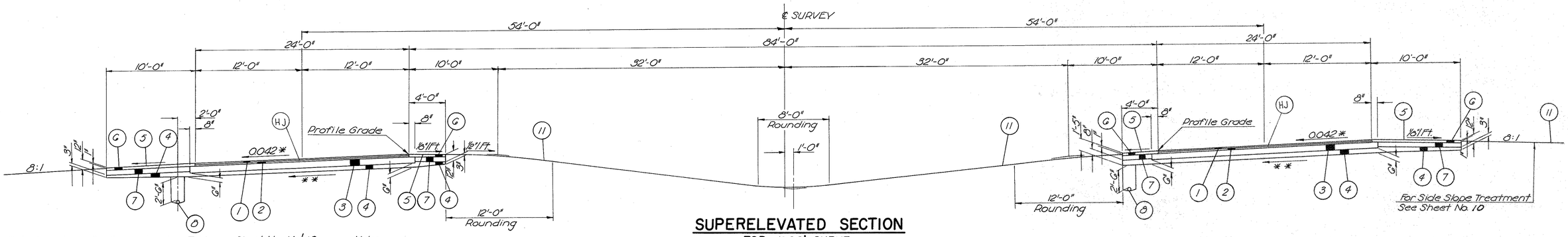


SUPERELEVATED ROCK SECTION

FOR 0°45' CURVE

LIMITING STATIONS

Sta. 458+75 to Sta. 459+00
Sta. 459+00 to Sta. 461+25 Left Side Only
Sta. 461+25 to Sta. 480+00



SUPERELEVATED SECTION

FOR 1°00' CURVE

LIMITING STATIONS

Sta. 564+75 to Sta. 579+87.60

* For Elevations See Superelevation Tables on Sheet No. 11 & 12
** Same as Superelevation.

Notes:
For Item Legend See Sheet No. 4.
There shall be a 1" drop from the Surface of the Paved Shoulder to the Earth Shoulder, except on the 4' wide High Side of a Superelevated Section.

Note: Whenever Superelevation is greater than 1½ inch/ft. Shoulder Slope must be same as mainline Superelevation.

MAINLINE
TYPICAL SECTIONS

TYPICAL SECTIONS

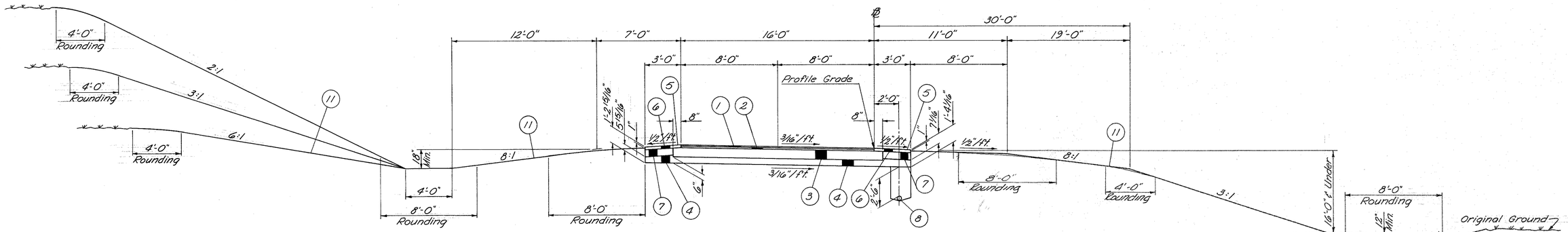
TYPE 404 ON 301

0 5 10
SCALE IN FEET

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

7
638

CLERMONT COUNTY
CLE.-275-6.68



NORMAL RAMP SECTION

LIMITING STATIONS

RAMP H
Sta. 546+00.00 to Sta. 547+25.00

RAMP J
Sta. 554+00.00 to Sta. 557+25.00

RAMP L
Sta. 552+50.00 to Sta. 555+75.00

RAMP U
Sta. 385+18.20 to Sta. 389+75.00

RAMP V
Sta. 382+25.00 to Sta. 386+95.97

RAMP W
Sta. 391+97.57 to Sta. 392+50.00

LIMITING STATIONS

RAMP "F"
Sta. 537+73.47 to Sta. 541+00.00
Sta. 541+00.00 to Sta. 544+00.00 Transition
Sta. 547+50.00 to Sta. 550+00.00 Transition
Sta. 550+00.00 to Sta. 553+75.00
Sta. 553+75.00 to Sta. 554+62.67 Transition

RAMP "G"
Sta. 535+28.92 to Sta. 545+29.57

RAMP "H"
Sta. 539+75.00 to Sta. 543+25.00
Sta. 543+25.00 to Sta. 546+00.00 Transition
Sta. 547+25.00 to Sta. 550+25.00
Sta. 550+25.00 to Sta. 553+50.00
Sta. 553+50.00 to Sta. 553+63.86

RAMP "I"
Sta. 538+30.00 to Sta. 546+31.10

RAMP "J"
Sta. 547+56.89 to Sta. 551+00.00
Sta. 551+00.00 to Sta. 554+00.00 Transition
Sta. 557+25.00 to Sta. 560+25.00 Transition
Sta. 560+25.00 to Sta. 563+87.60

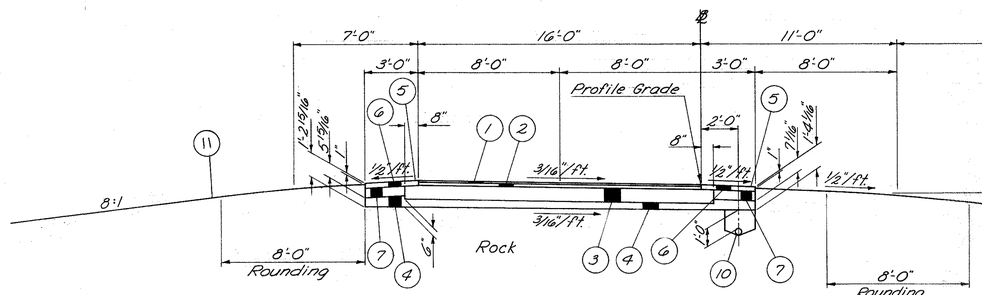
RAMP "K"
Sta. 556+67.18 to Sta. 566+90.86

RAMP "L"
Sta. 546+23.32 to Sta. 547+00.00 Transition
Sta. 547+00.00 to Sta. 552+50.00
Sta. 555+75.00 to Sta. 558+75.00 Transition
Sta. 558+75.00 to Sta. 561+50.00
Sta. 561+50.00 to Sta. 561+96.93

RAMP "M"
Sta. 555+31.77 to Sta. 563+62.42

RAMP "T"
Sta. 373+28.07 to Sta. 374+25.00 Transition
Sta. 378+50.00 to Sta. 380+19.89

RAMP "U"
Sta. 389+75.00 to Sta. 390+00.00 Transition

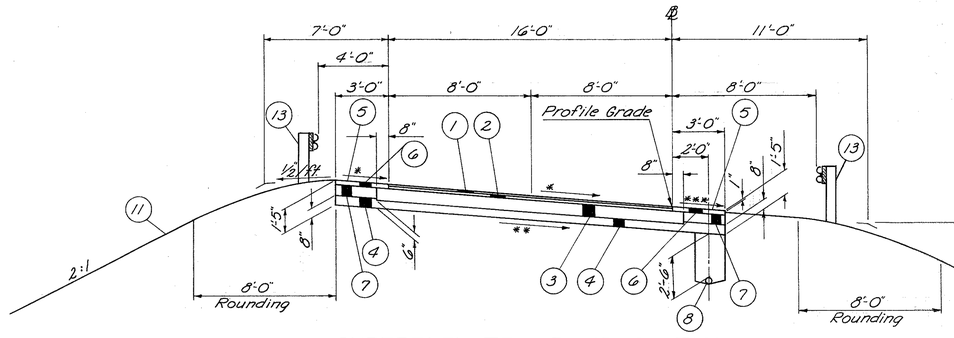


NORMAL RAMP ROCK SECTION

LIMITING STATIONS

RAMP T
Sta. 374+25.00 to Sta. 375+00.00

RAMP V
Sta. 378+75.00 to Sta. 382+25.00



SUPERELEVATED RAMP SECTION

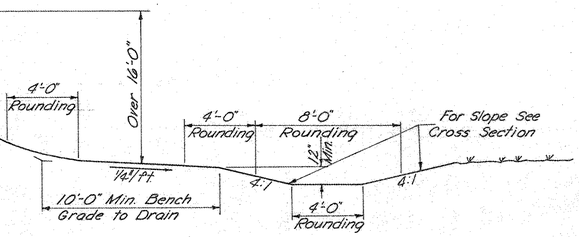
LIMITING STATIONS
See Left Side

NOTE:
For Item Legend see Sheet No. 4

* For Slope see Pavement Details Sht No's. 96 – 116
** Same as Superelevation
*** Whenever Superelevation is greater than 1/2"/ft. Shoulder Slope must be same as Ramp Superelevation.

NOTE:
There shall be a 1" drop from the surface of the Paved Shoulder to the Earth Shoulder, except on the high side of a Superelevated Section.

For Speed Change Lane Typical see Sheet No. 16



RAMP TYPICAL SECTIONS

TYPICAL SECTIONS

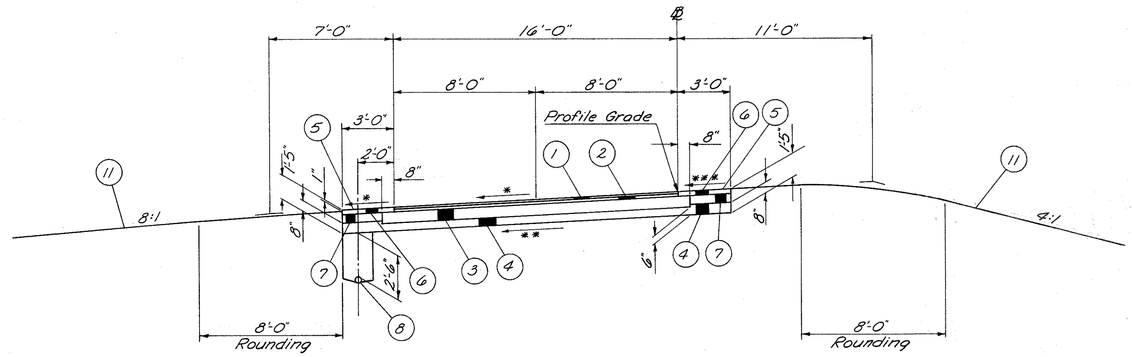
TYPE 404 ON 301

0 5 10
SCALE IN FEET

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

8
638

CLERMONT COUNTY
CLE. 275-6.68



SUPERELEVATED RAMP SECTION

LIMITING STATIONS

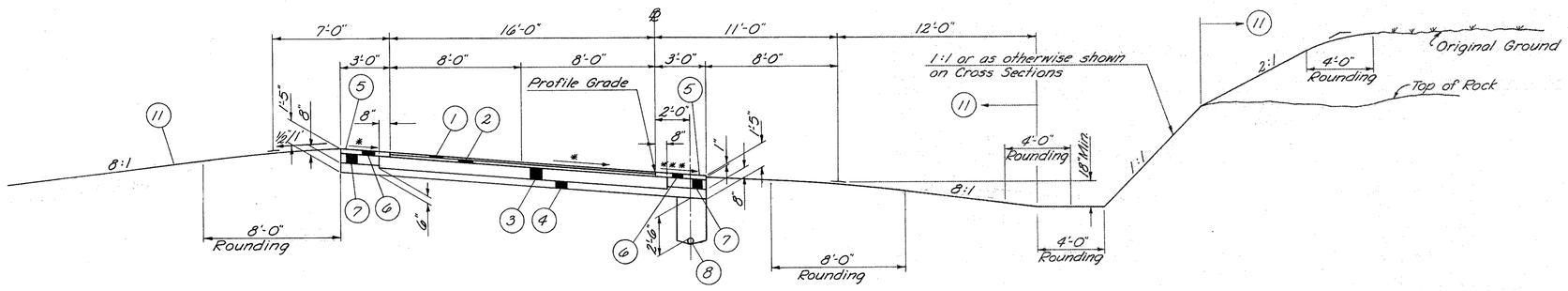
RAMP F

Sta. 544+00.00 to Sta. 545+25.00 Transition
Sta. 545+25.00 to Sta. 545+75.00
Sta. 545+75.00 to Sta. 547+50.00 Transition

NOTE:
For Item Legend See Sheet No. 4

* For Slope See Pavement Details Sht. No's. 96 - 116
** Same as Superelevation
*** Whenever Superelevation is greater than ½"/Ft. Shoulder Slope must be same as Ramp Superelevation

NOTE: There shall be a 1" drop from the surface of the Paved Shoulder to the Earth Shoulder, except on the High Side of a Superelevated Section.



SUPERELEVATED RAMP ROCK SECTION

LIMITING STATIONS

RAMP T

150 Sta. 375+00.00 to Sta. 376+50.00 Transition
100 Sta. 376+50.00 to Sta. 378+50.00

RAMP U

Sta. 390+00.00 to Sta. 391+25.00 Transition
Sta. 391+25.00 to Sta. 392+50.00

RAMP W

Sta. 392+50.00 to Sta. 394+25.00 Transition
Sta. 394+25.00 to Sta. 396+22.73

RAMP TYPICAL SECTION

TYPICAL SECTIONS

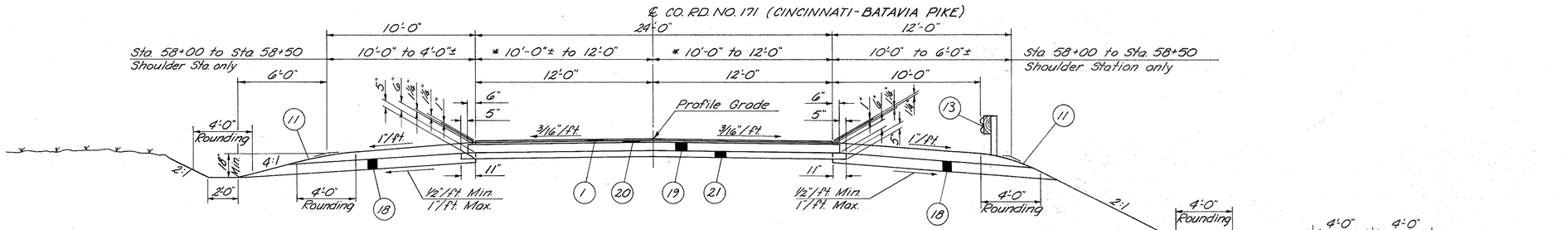
TYPE 404

0 5 10
SCALE IN FEET

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

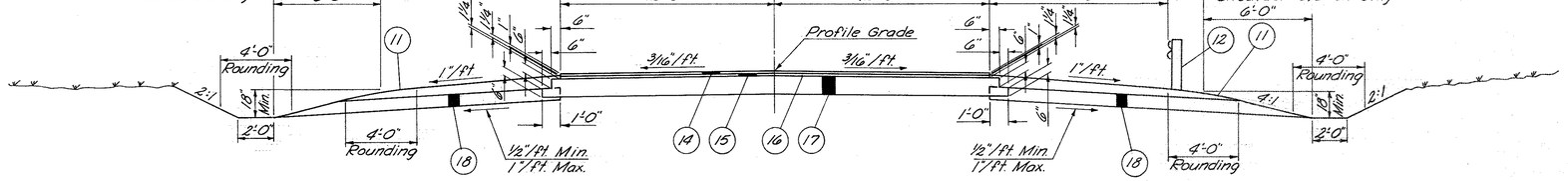
CLERMONT COUNTY
CLE-275-6.68



NORMAL SECTION

LIMITING STATIONS

Sta. 45+50 to Sta. 46+50
Sta. 46+50 to Sta. 48+15.32
Sta. 48+15.32 to Sta. 51+92.68 Bridge & Approaches
Sta. 51+92.68 to Sta. 57+50
* Sta. 57+50 to Sta. 58+50

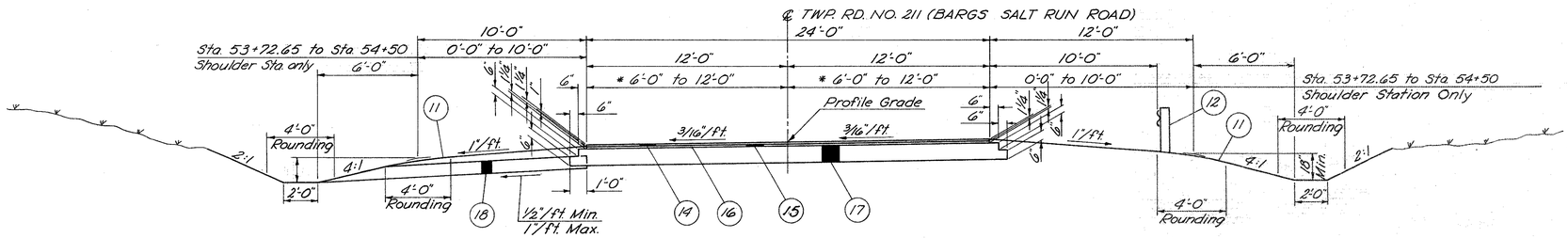


NORMAL SECTION

LIMITING STATIONS

* Sta. 39+50 to Sta. 39+85.63
Sta. 42+25 to Sta. 46+00

Notes: For Item Legend See Sht. No. 4
There shall be a 1" drop from the Surface of the Paved Shoulder to the Earth Shoulder, except on the High Side of a Superelevated Section.



SUPERELEVATED SECTION

LIMITING STATIONS

64.37	Sta. 39+85.63	to	Sta. 40+50.00	Transition	Sta. 48+17.04	to	Sta. 51+82.96	Bridge & Approaches
12.5.00	Sta. 40+50.00	to	Sta. 41+75.00		Sta. 51+82.96	to	Sta. 52+75.00	Transition
100	Sta. 41+75.00	to	Sta. 42+75.00	Transition	Sta. 52+75.00	to	Sta. 53+25.00	
100	Sta. 46+00.00	to	Sta. 47+00.00	Transition	Sta. 53+25.00	to	Sta. 53+72.65	Transition
25	Sta. 47+00.00	to	Sta. 47+25.00		* Sta. 53+72.65	to	Sta. 54+50.00	Transition
92.04	Sta. 47+25.00	to	Sta. 48+17.04	Transition				

CO. RD. NO. 171 (CINCINNATI - BATAVIA PIKE) &
TWP. RD. NO. 211 (BARGS - SALT RUN ROAD)
TYPICAL SECTIONS

TYPICAL SECTIONS

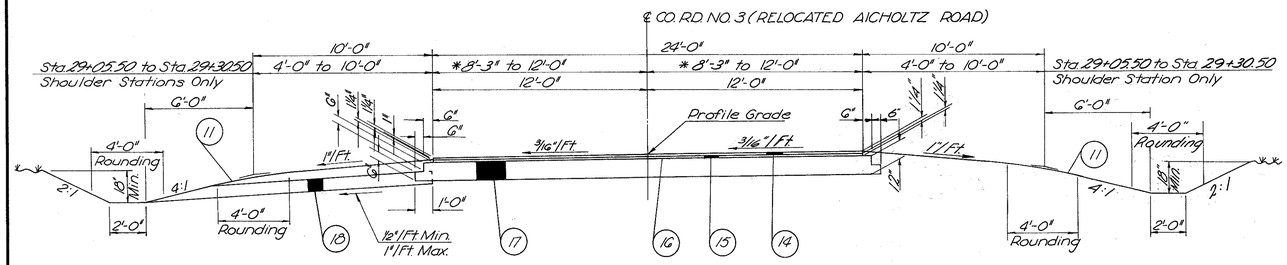
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE-275-6.68

TYPE 404

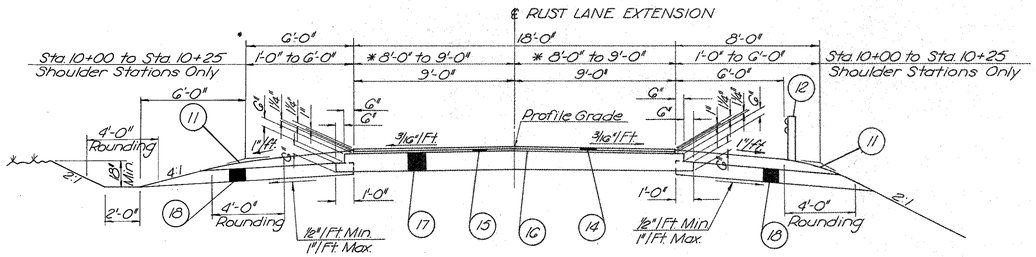
0 5 10
Scale in Feet



NORMAL SECTION

LIMITING STATIONS

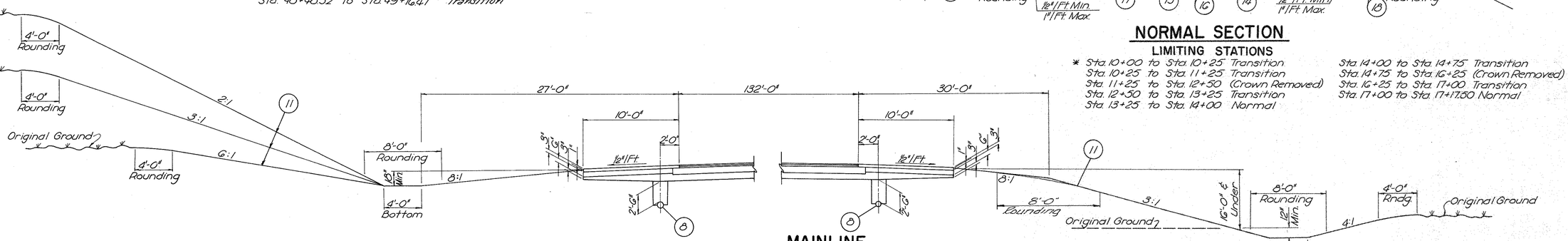
* Sta. 29+05.50 to Sta. 29+30.50 Transition
Sta. 29+30.50 to Sta. 33+25 Transition
Sta. 33+25 to Sta. 48+48.52 Normal
Sta. 48+48.52 to Sta. 49+16.47 Transition



NORMAL SECTION

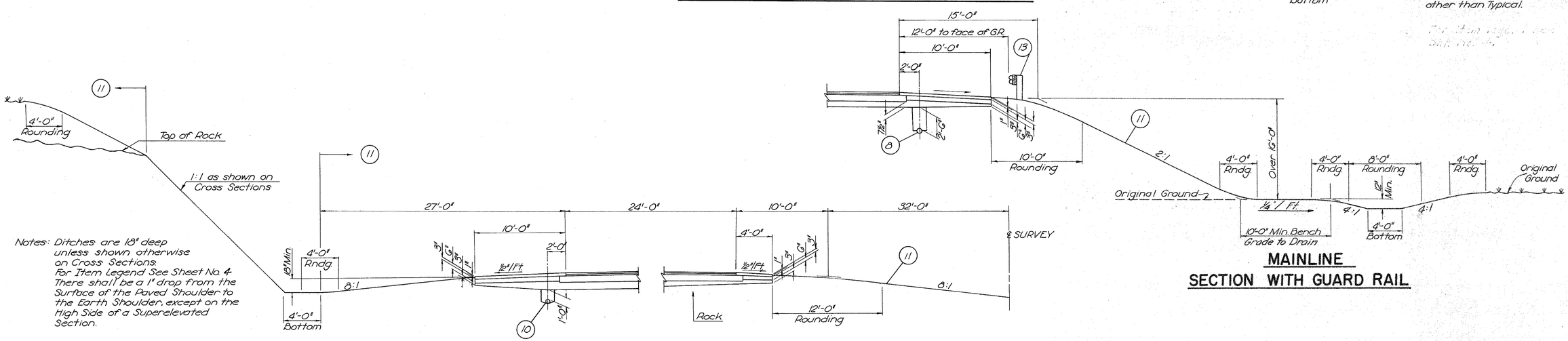
LIMITING STATIONS

* Sta. 10+00 to Sta. 10+25 Transition
Sta. 10+25 to Sta. 11+25 Transition
Sta. 11+25 to Sta. 12+50 (Crown Removed)
Sta. 12+50 to Sta. 13+25 Transition
Sta. 13+25 to Sta. 14+00 Normal
Sta. 14+00 to Sta. 14+75 Transition
Sta. 14+75 to Sta. 16+25 (Crown Removed)
Sta. 16+25 to Sta. 17+00 Transition
Sta. 17+00 to Sta. 17+17.50 Normal



MAINLINE
SHOULDER & SLOPE TREATMENT SECTION

Note: See Plan & Profile and Cross Sections for ditches other than Typical.



Notes: Ditches are 18" deep unless shown otherwise on Cross Sections.
For Item Legend See Sheet No. 4
There shall be a 1" drop from the Surface of the Paved Shoulder to the Earth Shoulder, except on the High Side of a Superelevated Section.

MAINLINE
ROCK SECTION

MAINLINE
SECTION WITH GUARD RAIL

CO. RD. NO. 3 (RELOCATED AICHOLTZ ROAD)
RUST LANE EXTENSION
MAINLINE SHOULDER TREATMENT SECTIONS

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

11
638

CLERMONT COUNTY
CLE-275-6.68

Dc=1°28'00" SE·0.061 ft/ft

MAX. SUPERELEVATION FOR 24'=1.46

STATION	NORTH BOUND LANE OUTER EDGE	NORTH BOUND LANE ℄	PROFILE GRADE	SOUTH BOUND LANE ℄	SOUTH BOUND LANE OUTER EDGE
397+00	676.00	676.19	676.00	676.19	676.00
+25	676.27	676.44	676.25	676.42	676.23
+50	676.56	676.69	676.50	676.63	676.44
+75	676.88	676.94	676.75	676.81	676.62
398+00	677.19	677.19	677.00	677.00	676.81
+25	677.50	677.44	677.25	677.19	677.00
+50	677.82	677.69	677.50	677.37	677.18
+75	678.14	677.95	677.75	677.57	677.33
399+00	678.48	678.24	678.00	677.76	677.52
+25	678.81	678.53	678.25	677.97	677.69
+50	679.16	678.83	678.50	678.17	677.84
+75	679.49	679.12	678.75	678.38	678.01
400+00	679.84	679.42	679.00	678.58	678.16
+25	680.17	679.71	679.25	678.79	678.23
+50	680.52	680.01	679.50	678.99	678.48
P.C. 400+70.56	680.80	680.26	679.71	679.16	678.62
+75	680.85	680.30	679.75	679.20	678.65
401+00	681.20	680.60	680.00	679.40	678.80
+25	681.53	680.89	680.25	679.61	678.97
+50	681.88	681.19	680.50	679.81	679.12
+75	682.19	681.47	680.75	680.03	679.33
402+00	682.46	681.73	681.00	680.27	679.54
+25	682.71	681.98	681.25	680.52	679.79
+50	682.96	682.23	681.50	680.77	680.04
+75	683.21	682.48	681.75	681.02	680.29
403+00	683.46	682.73	682.00	681.27	680.54
+25	683.71	682.98	682.25	681.52	680.79
+50	683.96	683.23	682.50	681.77	681.04
+75	684.21	683.48	682.75	682.02	681.29
404+00	684.46	683.73	683.00	682.27	681.54
+25	684.71	683.98	683.25	682.52	681.79
+50	684.96	684.23	683.50	682.77	682.04
+75	685.21	684.48	683.75	683.02	682.29
405+00	685.46	684.73	684.00	683.27	682.54
+25	685.71	684.98	684.25	683.52	682.79
+50	685.96	685.23	684.50	683.77	683.04
+75	686.21	685.48	684.75	684.02	683.29
406+00	686.46	685.73	685.00	684.27	683.54
+25	686.71	685.98	685.25	684.52	683.79
+50	686.96	686.23	685.50	684.77	684.04
+75	687.21	686.48	685.75	685.02	684.29
407+00	687.46	686.73	686.00	685.27	684.54
+25	687.71	686.98	686.25	685.52	684.79
+50	687.96	687.23	686.50	685.77	685.04
+75	688.21	687.48	686.75	686.02	685.29
408+00	688.46	687.73	687.00	686.27	685.54
+25	688.71	687.98	687.25	686.52	685.79
+50	688.96	688.23	687.50	686.77	686.04
+75	689.21	688.48	687.75	687.02	686.29
409+00	689.46	688.73	688.00	687.27	686.54
+25	689.71	688.98	688.25	687.52	686.79
+50	689.96	689.23	688.50	687.77	687.04
+75	690.21	689.48	688.75	688.02	687.29
410+00	690.46	689.73	689.00	688.27	687.54
+25	690.71	689.98	689.25	688.52	687.79
+50	690.96	690.23	689.50	688.77	688.04
+75	691.21	690.48	689.75	689.02	688.29
411+00	691.46	690.73	690.00	689.27	688.54
+25	691.71	690.98	690.25	689.52	688.79
+50	691.96	691.23	690.50	689.77	689.04
+75	692.21	691.48	690.75	690.02	689.29
412+00	692.46	691.73	691.00	690.27	689.54
+25	692.71	691.98	691.25	690.52	689.79
+50	692.96	692.23	691.50	690.77	690.04
+75	693.21	692.48	691.75	691.02	690.29
413+00	693.46	692.73	692.00	691.27	690.54
+25	693.71	692.98	692.25	691.52	690.79
+50	693.96	693.23	692.50	691.77	691.04
+75	694.21	693.48	692.75	692.02	691.29
414+00	694.46	693.73	693.00	692.27	691.54
+25	694.71	693.98	693.25	692.52	691.79
+50	694.96	694.23	693.50	692.77	692.04

Dc=1°28'00" SE·0.061 ft/ft

MAX. SUPERELEVATION FOR 24'=1.46

STATION	NORTH BOUND LANE OUTER EDGE	NORTH BOUND LANE ℄	PROFILE GRADE	SOUTH BOUND LANE ℄	SOUTH BOUND LANE OUTER EDGE
414+75	695.21	694.48	693.75	693.02	692.29
415+00	695.46	694.73	694.00	693.27	692.54
+25	695.71	694.98	694.25	693.52	692.79
+50	695.96	695.23	694.50	693.77	693.04
+75	696.21	695.48	694.75	694.02	693.29
416+00	696.46	695.73	695.00	694.27	693.54
+25	696.71	695.98	695.25	694.52	693.79
+50	696.96	696.23	695.50	694.77	694.04
+75	697.21	696.48	695.75	695.02	694.29
417+00	697.46	696.73	696.00	695.27	694.54
+25	697.71	696.98	696.25	695.52	694.79
+50	697.96	697.23	696.50	695.77	695.04
+75	698.21	697.48	696.75	696.02	695.29
418+00	698.46	697.73	697.00	696.27	695.54
+25	698.71	697.98	697.25	696.52	695.79
+50	698.96	698.23	697.50	696.77	696.04
+75	699.21	698.48	697.75	697.02	696.29
419+00	699.46	698.73	698.00	697.27	696.54
+25	699.71	698.98	698.25	697.52	696.79
+50	699.96	699.23	698.50	697.77	697.04
+75	700.21	699.48	698.75	698.02	697.29
420+00	700.46	699.73	699.00	698.27	697.54
+25	700.71	699.98	699.25	698.52	697.79
+50	700.96	700.23	699.50	698.77	698.04
+75	701.21	700.48	699.75	699.02	698.29
421+00	701.46	700.73	700.00	699.27	698.54
+25	701.72	700.99	700.26	699.53	698.80
+50	701.99	701.26	700.53	699.80	699.07
+75	702.28	701.55	700.82	700.09	699.36
422+00	702.58	701.85	701.12	700.39	699.66
+25	702.89	702.16	701.43	700.70	699.97
+50	703.22	702.49	701.76	701.03	700.30
+75	703.57	702.84	702.11	701.38	700.65
423+00	703.93	703.20	702.47	701.74	701.01
+25	704.30	703.57	702.84	702.11	701.38
+50	704.69	703.96	703.23	702.50	701.77
+75	705.09	704.36	703.63	702.90	702.17
424+00	705.51	704.78	704.05	703.32	702.59
+25	705.94	705.21	704.48	703.75	703.02
+50	706.39	705.66	704.93	704.20	703.47
+75	706.85	706.12	705.39	704.66	703.93
425+00	707.33	706.60	705.87	705.14	704.41
+25	707.82	707.09	706.36	705.63	704.90
+50	708.29	707.57	706.86	706.15	705.43
+75	708.76	708.07	707.38	706.69	706.00
426+00	709.20	708.56	707.92	707.28	706.64
+25	709.67	709.07	708.47	707.87	707.27
P.T. 426+36.66	709.89	709.29	708.73	708.17	707.63
+50	710.13	709.58	709.03	708.48	707.94
+75	710.63	710.12	709.61	709.10	708.59
427+00	711.12	710.66	710.20	709.74	709.28
+25	711.64	711.22	710.80	710.38	709.96
+50	712.14	711.77	711.40	711.03	710.66
+75	712.66	712.33	712.00	711.67	711.34
428+00	713.16	712.88	712.60	712.32	712.04
+25	713.68	713.44	713.20	712.96	712.72
+50	714.19	714.00	713.80	713.62	713.41
+75	714.72	714.59	714.40	714.27	714.08
429+00	715.25	715.19	715.00	714.94	714.75
+25	715.79	715.79	715.60	715.60	715.41
+50	716.33	716.39	716.20	716.26	716.07
+75	716.86	716.99	716.80	716.93	716.74
430+00	717.42	717.59	717.40	717.57	717.38
+25	718.00	718.19	718.00	718.19	718.00

Dc=0°45'00" SE 0.032 ft/ft

MAX. SUPERELEVATION FOR 24'=0.76

STATION	NORTH BOUND LANE OUTER EDGE	NORTH BOUND LANE ℄	PROFILE GRADE	SOUTH BOUND LANE ℄	SOUTH BOUND LANE OUTER EDGE
458+75	784.82	785.01	784.82	785.01	784.82
459+00	785.23	785.42	785.25	785.44	785.26
+25	785.61	785.80	785.67	785.86	785.73
+50	785.98	786.14	786.08	786.27	786.21
+75	786.30	786.49	786.49	786.68	786.68
460+00	786.63	786.82	786.88	787.07	787.13
+25	786.96	787.13	787.27	787.46	787.59
+50	787.27	787.47	787.64	787.84	788.01
+75	787.59	787.80	788.01	788.22	788.43
461+00	787.89	788.13	788.37	788.61	788.85
+25	788.20	788.46	788.72	788.98	789.24
+50	788.50	788.78	789.06	789.34	789.62
+75	788.78	789.09	789.40	789.71	790.02
P.C. 461+79.20	788.83	789.14	789.45	789.76	790.07
462+00	789.06	789.39	789.72	790.05	790.38
+25	789.34	789.69	790.04	790.39	790.74
+50	789.62	789.98	790.34	790.72	791.08
+75	789.88	790.27	790.64	791.03	791.42
463+00	790.16	790.55	790.93	791.31	791.70
+25	790.44	790.83	791.21	791.59	791.98
+50	790.71	791.10	791.48	791.86	792.25
+75	790.98	791.37	791.75	792.13	792.52
464+00	791.23	791.62	792.00	792.38	792.77
+25	791.48	791.87	792.25	792.63	793.02
+50	791.73	792.12	792.50	792.88	793.27
+75	791.98	792.37	792.75	793.13	793.52
465+00	792.24	792.62	793.00	793.38	793.76
+25	792.49	792.87	793.25	793.63	794.01
+50	792.74	793.12	793.50	793.88	794.26
+75	792.99	793.37	793.75	794.13	794.51
466+00	793.24	793.62	794.00	794.38	794.76
+25	793.49	793.87	794.25	794.63	795.01
+50	793.74	794.12	794.50	794.88	795.26
+75	793.99	794.37	794.75	795.13	795.51
467+00	794.24	794.62	795.00	795.38	795.76
+25	794.49	794.87	795.25	795.63	796.01
+50	794.74	795.12	795.50	795.88	796.26
+75	794.99	795.37	795.75	796.13	796.51
468+00	795.24	795.62	796.00	796.38	796.76
+25	795.49	795.87	796.25	796.63	797.01
+50	795.74	796.12	796.50	796.88	797.26
+75	795.99	796.37	796.75	797.13	797.51
469+00	796.24	796.62	797.00	797.38	797.76
+25	796.49	796.87	797.25	797.63	798.01
+50	796.74	797.12	797.50	797.88	798.26
+75	796.99	797.37	797.75	798.13	798.51
470+00	797.24	797.62	798.00	798.38	798.76
+25	797.49	797.87	798.25	798.63	799.01
+50	797.74	798.12	798.50	798.88	799.26
+75	797.99	798.37	798.75	799.13	799.51
471+00	798.24	798.62	799.00	799.38	799.76
+25	798.49	798.87	799.25	799.63	800.01
+50	798.74	799.12	799.50	799.88	800.26
+75	798.99	799.37	799.75	800.13	800.51
472+00	799.24	799.62	800.00	800.38	800.76
+25	799.49	799.87	800.25	800.63	801.01
+50	799.74	800.12	800.50	800.88	801.26
+75	799.99	800.37	800.75	801.13	801.51
473+00	800.24	800.62	801.00	801.38	801.76
+25	800.49	800.87	801.25	801.63	802.01
+50	800.74	801.12	801.50	801.88	802.26
+75	800.99	801.37	801.75	802.13	802.51
474+00	801.24	801.62	802.00	802.38	802.76
+25	801.49	801.87	802.25	802.63	803.01
+50	801.74	802.12	802.50	802.88	803.26
+75	801.99	802.37	802.75	803.13	803.51
475+00	802.24	802.62	803.00	803.38	803.76
+25	802.49	802.87	803.25	803.63	804.01
+50	802.74	803.12	803.50	803.88	804.26
+75	802.99	803.37	803.75	804.13	804.51
476+00	803.24	803.62	804.00	804.38	804.76
+25	803.49	803.87	804.25	804.63	805.01

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68

Dc.=0°45'00" SE:0.032'/'

MAX. SUPERELEVATION FOR 24'=0.76

STATION	NORTH BOUND LANE OUTER EDGE	NORTH BOUND LANE ℄	PROFILE GRADE	SOUTH BOUND LANE ℄	SOUTH BOUND LANE OUTER EDGE
476+50	803.74	804.12	804.50	804.88	805.26
+75	803.99	804.37	804.75	805.13	805.51
477+00	804.24	804.62	805.00	805.38	805.76
+25	804.49	804.87	805.25	805.63	806.01
+50	804.74	805.12	805.50	806.88	806.26
+75	804.99	805.37	805.75	806.13	806.51
478+00	805.24	805.62	806.00	806.38	806.76
+25	805.49	805.87	806.25	806.63	807.01
+50	805.74	806.12	806.50	806.88	807.26
+75	805.99	806.37	807.75	807.13	807.51
479+00	806.24	806.62	807.00	807.38	807.76
+25	806.49	806.87	807.25	807.63	808.01
+50	806.74	807.12	807.50	807.88	808.26
+75	806.99	807.37	807.75	808.13	808.51
480+00	807.24	807.62	808.00	808.38	808.76
+25	807.49	807.87	808.25	808.63	809.01
+50	807.74	808.12	808.50	808.88	809.26
+75	807.99	808.37	808.75	809.13	809.51
481+00	808.24	808.62	809.00	809.38	809.76
+25	808.49	808.87	809.25	809.63	810.01
+50	808.74	809.12	809.50	809.88	810.26
+75	808.99	809.37	809.75	810.13	810.51
482+00	809.24	809.62	810.00	810.38	810.76
+25	809.49	809.87	810.25	810.63	811.01
+50	809.74	810.12	810.50	810.88	811.26
+75	809.99	810.37	810.75	811.13	811.51
483+00	810.24	810.62	811.00	811.38	811.76
+25	810.49	810.87	811.25	811.63	812.01
+50	810.74	811.12	811.50	811.88	812.26
+75	810.99	811.37	811.75	812.13	812.51
484+00	811.24	811.62	812.00	812.38	812.76
+25	811.51	811.88	812.25	812.62	812.99
+50	811.80	812.15	812.50	812.85	813.20
+75	812.09	812.42	812.75	813.08	813.41
485+00	812.38	812.69	813.00	813.31	813.62
P.T.485+04.76	812.43	812.74	813.05	813.36	813.67
+25	812.69	812.97	813.25	813.53	813.81
+50	812.98	813.24	813.50	813.76	814.02
+75	813.29	813.52	813.75	813.98	814.21
486+00	813.58	813.79	814.00	814.21	814.42
+25	813.88	814.08	814.25	814.45	814.62
+50	814.19	814.38	814.50	814.69	814.81
+75	814.50	814.69	814.75	814.94	815.00
487+00	814.81	815.00	815.00	815.19	815.19
+25	815.12	815.31	815.25	815.44	815.38
+50	815.44	815.63	815.50	815.69	815.56
+75	815.73	815.92	815.75	815.94	815.77
488+00	816.00	816.19	816.00	816.19	816.00

ACCELERATION 1,200' TAPER

STATION	DISTANCE	ELEVATION	STATION	DISTANCE	ELEVATION
353+00	19.35	591.21	358+00	8.94	603.00
+25	18.83	591.70	+25	8.42	603.71
+50	18.31	592.19	+50	7.89	604.43
+75	17.79	592.69	+75	7.37	605.15
354+00	17.27	593.21	359+00	6.85	605.90
+25	16.75	593.74	+25	6.33	606.65
+50	16.23	594.28	+50	5.81	607.41
+75	15.71	594.82	+75	5.29	608.17
355+00	15.19	595.39	360+00	4.77	608.93
+25	14.67	595.96	+25	4.25	609.68
+50	14.14	596.55	+50	3.73	610.44
+75	13.62	597.14	+75	3.21	611.20
356+00	13.10	597.75	361+00	2.69	611.96
+25	12.58	598.36	+25	2.17	612.72
+50	12.06	598.99	+50	1.64	613.47
+75	11.54	599.63	+75	1.12	614.23
357+00	11.02	600.29	362+00	0.60	614.99
+25	10.50	600.95	+25	0.08	615.75
+50	9.98	601.62	+28.91	0.00	615.87
+75	9.46	602.30			

Dc=1°00'00" SE:0.042'/'

MAX. SUPERELEVATION FOR 24'=1.00

STATION	NORTH BOUND LANE OUTER EDGE	NORTH BOUND LANE ℄	PROFILE GRADE	SOUTH BOUND LANE ℄	SOUTH BOUND LANE OUTER EDGE
564+75	896.35	896.54	896.35	896.54	896.35
565+00	896.48	896.67	896.50	896.69	896.52
+25	896.59	896.78	896.65	896.84	896.71
+50	896.67	896.86	896.80	896.99	896.93
+75	896.76	896.95	896.95	897.14	897.14
566+00	896.85	897.04	897.10	897.29	897.36
+25	896.94	897.13	897.25	897.44	897.57
+50	897.01	897.22	897.40	897.60	897.79
+75	897.09	897.32	897.55	897.78	898.01
567+00	897.16	897.43	897.70	897.97	898.24
+25	897.25	897.55	897.85	898.15	898.45
+50	897.32	897.66	898.00	898.34	898.68
+75	897.41	897.78	898.15	898.52	898.89
P.C.567+77.91	897.42	897.79	898.17	898.54	898.94
568+00	897.46	897.88	898.30	898.72	899.14
+25	897.53	897.99	898.45	898.91	899.37
+50	897.62	898.11	898.60	899.09	899.58
+75	897.75	898.25	898.75	899.25	899.75
569+00	897.90	898.40	898.90	899.40	899.90
+25	898.05	898.55	899.05	899.55	900.05
+50	898.20	898.70	899.20	899.70	900.20
+75	898.35	898.85	899.35	899.85	900.35
570+00	898.50	899.00	899.50	900.00	900.50
+25	898.65	899.15	899.65	900.15	900.65
+50	898.80	899.30	899.80	900.30	900.80
+75	898.95	899.45	899.95	900.45	900.95
571+00	899.10	899.60	900.10	900.60	901.10
+25	899.25	899.75	900.25	900.75	901.25
+50	899.40	899.90	900.40	900.90	901.40
+75	899.55	900.05	900.55	901.05	901.55
572+00	899.70	900.20	900.70	901.20	901.70
+25	899.85	900.35	900.85	901.35	901.85
+50	900.00	900.50	901.00	901.50	902.00
+75	900.15	900.65	901.15	901.65	902.15
573+00	900.30	900.80	901.30	901.80	902.30
+25	900.45	900.95	901.45	901.95	902.45
+50	900.60	901.10	901.60	902.10	902.60
+75	900.75	901.25	901.75	902.25	902.75
574+00	900.90	901.40	901.90	902.40	902.90
+25	901.05	901.55	902.05	902.55	903.05
+50	901.20	901.70	902.20	902.70	903.20
+75	901.35	901.85	902.35	902.85	903.35
575+00	901.50	902.00	902.50	903.00	903.50
+25	901.65	902.15	902.65	903.15	903.65
+50	901.80	902.30	902.80	903.30	903.80
+75	901.95	902.45	902.95	903.45	903.95
576+00	902.10	902.60	903.10	903.60	904.10
+25	902.25	902.75	903.25	903.75	904.25
+50	902.40	902.90	903.40	903.90	904.40
+75	902.55	903.05	903.55	904.05	904.55
577+00	902.70	903.20	903.70	904.20	904.70
+25	902.85	903.35	903.85	904.35	904.85
+50	903.00	903.50	904.00	904.50	905.00
+75	903.15	903.65	904.15	904.65	905.15
578+00	903.30	903.80	904.30	904.80	905.30
+25	903.45	903.95	904.45	904.95	905.45
+50	903.60	904.10	904.60	905.10	905.60
+75	903.75	904.25	904.75	905.25	905.75
579+00	903.90	904.40	904.90	905.40	905.90
+25	904.05	904.55	905.05	905.55	906.05
+50	904.20	904.70	905.20	905.70	906.20
+75	904.35	904.85	905.35	905.85	906.35
580+00	904.50	905.00	905.50	906.00	906.50

SUPERELEVATION TABLES

FED. RD. DIVISION	STATE	PROJECT	
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CLERMONT COUNTY
CLE.- 275-6.68

REFERENCE P.O.T. STA. 41+00
45.33' Iron Sign Post
Nail & Cap
42
32.80
23.28'
Mail Box Post

REFERENCE P.I. STA. 45+06.95
Sign Post
12.72'
17.77'
43.50'
Sign Post
Tangent
Tangent
45
Nail & Cap

REFERENCE P.O.T. STA. 50+00
C.N. on Spike
Mail Box Post
24.10'
45.39'
6" Walnut
51

REFERENCE P.O.T. STA. 60+00
Nail & Cap
53.06'
Lamp Post
61
Wood Post
54.30'
41.55'
Wood Post

Leach Area
Septic Tank
Sta. 46+25, Co. Rd. No. 171 (Cinti-Batavia Pike) = Sta. 0+00 Driveway
Sta. 46+30, Co. Rd. No. 171 (Cinti-Batavia Pike) = Sta. 0+00 Driveway
Begin Bituminous Taper Sta. 45+50 Meet Exist. Pvt.
Temporary Easement
1 Sty. Conc. Blk. Firehouse # 718
Flag Pole
Gravel
12"
End Approach Slab Sta. 48+40.32
Begin Approach Slab Sta. 48+15.32
Sta. 46+60.46
Sta. 47+31.16
Sta. 48+04.86
Sta. 48+90.88
PI Sta. 44+79.48
Sta. 1+15.65
Exist. R/W
Existing 8" Water Main
Mail Boxes
Temporary Easement
Mac. Flag Pole
1 Sty. Conc. Blk. Bus. # 715
Gas Pumps
Sta. 1+82.8
P.C. Sta. 43+52.68
P.C. Sta. 44+10 = Sta. 0+46.08 Begin Work
Septic Tank
Leach Area
Manhole
End Bituminous Taper Sta. 46+30
P.T. Sta. 46+59.72
Stone Pillars
Well
Open Field
1 Sty. Fr. Barn
1 Sty. Fr. Chicken House
1 Sty. Fr. Shed
Septic Tanks
Conc. Well
Conc. Wall
Conc. Slab
2 Sty. Fr.
Fr. Privy
Abandoned Septic Tank
Septic Tanks
1 Sty. Shingle Bus.
Cultivated
L.A. R/W
68°00'20" Tangent to Curve
Begin Approach Slab Sta. 51+67.68
End Approach Slab Sta. 51+92.68
15" W.T.P.
Existing 8" Water Main
Woven Wire
5 Str. Barbed Wire
Sta. 50+00 Co. Rd. No. 171 (Cincinnati-Batavia Pike)
Sta. 532+73.25 Cle.-275 10.08
Sta. 54+93
Sta. 0+00
Mail Box
P.C. Sta. 48+38.22
P.T. Sta. 48+49.53
Sta. 48+90.88
Gravel Drive
2 Sty. Fr. Res.
Sta. 1+04 End Work
Temporary Easement
Sta. 56+75.07
Gas Line Post
Begin Bituminous Taper Sta. 57+60
End Bituminous Taper Sta. 58+30 Meet Exist. Pvt.
P.C. Sta. 15+06.95
P.C. Sta. 12+42.12
P.I. Sta. 13+23.16
P.C. Sta. 13+82.55
P.T. Sta. 15+66.89
Sta. 59+04.04
P.T. Sta. 16+27.93
Sta. 59+65.08
End Work
PROPOSED TEMPORARY ROAD
COUNTY RD. NO. 171 (CINCINNATI-BATAVIA PIKE)
Temporary Conduit
Temporary Easement
Exist. R/W
Mail Box
90°
Woven Wire
5 Str. Barbed Wire
Sta. 532+73.25 Cle.-275 10.08
Sta. 50+00 Co. Rd. No. 171 (Cincinnati-Batavia Pike)
Sta. 54+93
Sta. 0+00
Sta. 54+82.12
Sta. 55+19
Exist. R/W
P.I. Sta. 13+23.16
P.C. Sta. 13+82.55
P.T. Sta. 15+66.89
Sta. 59+04.04

CURVE DATA
P.I. Sta. 45+06.95
Δ = 13° 49' 00"
D_c = 4° 30' 00" Rt.
R = 1273.24'
L = 307.04'
T = 154.27'

CURVE DATA
Δ = 26° 06' 48"
R = 300.00'
D = 19° 05' 55"
L = 136.73'
T = 69.57'
E = 7.96'

CURVE DATA
Δ = 14° 52' 34"
R = 300.00'
D = 19° 05' 55"
L = 77.89'
T = 39.17'
E = 2.55'

CURVE DATA
Δ = 23° 00' 00"
R = 300.00'
D = 19° 05' 55"
L = 120.43'
T = 61.04'
E = 6.15'

CURVE DATA
Δ = 23° 00' 00"
R = 300.00'
D = 19° 05' 55"
L = 120.43'
T = 61.04'
E = 6.15'

B. M. Cross notch on most northerly bolt on top flange of fire hydrant, County Rd. No. 171 (Cincinnati-Batavia Pike), Sta. 43+75, 27' Lt. Elev. 880.28.

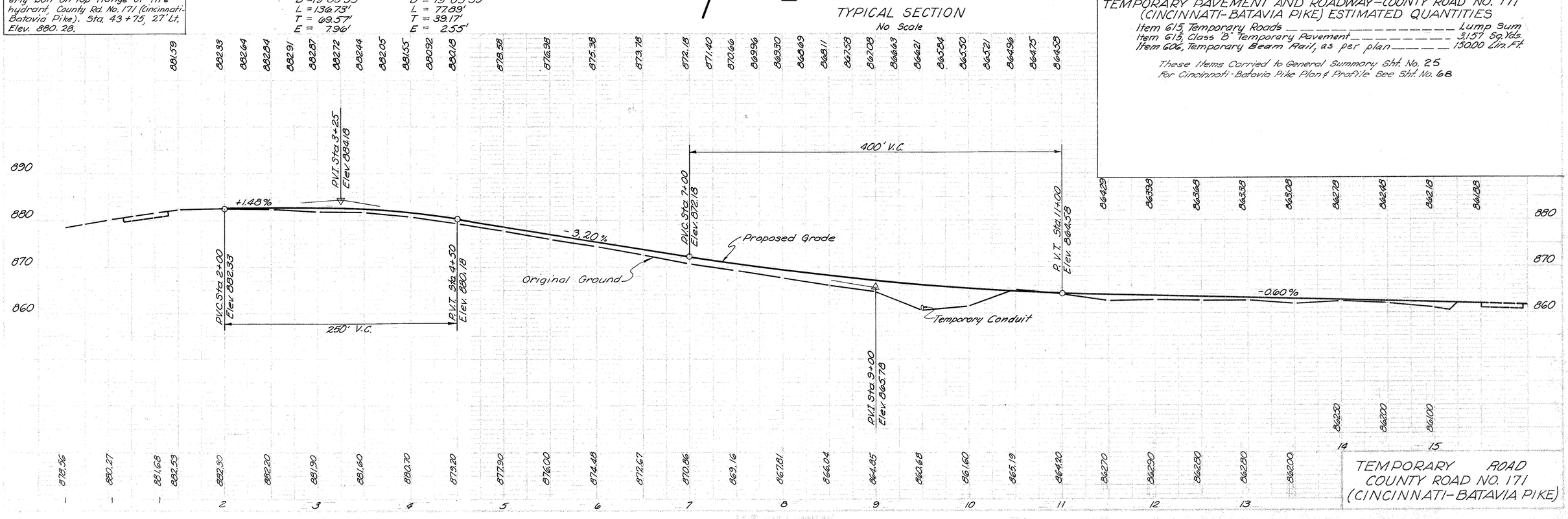
55 Gal. drum for Guard Rail support
20'-0"
4"
10'-0"
10'-0"
4"
2"
Profile Grade
3/16" / ft.
3/16" / ft.
2:1

TYPICAL SECTION
No Scale

TEMPORARY PAVEMENT AND ROADWAY-COUNTY ROAD NO. 171 (CINCINNATI-BATAVIA PIKE) ESTIMATED QUANTITIES

Item 615 Temporary Roads ____ Lump Sum
Item 615, Class "B" Temporary Pavement ____ 3157 Sq. Yds.
Item 606, Temporary Beam Rail, as per plan ____ 15000 Lin. Ft.

These Items Carried to General Summary Sht. No. 25
For Cincinnati-Batavia Pike Plan & Profile See Sht. No. 68



TEMPORARY ROAD
COUNTY ROAD NO. 171
(CINCINNATI-BATAVIA PIKE)

FED. RD DIVISION	STATE	PROJECT	
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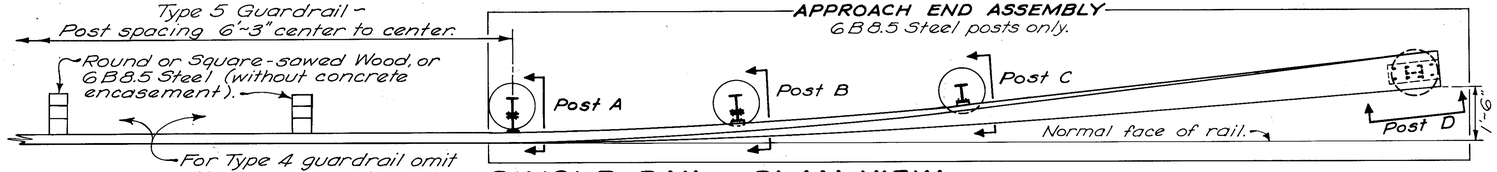
CLERMONT COUNTY
CLE. 275-6.68

NOTES

For details not shown, see Standard Drawings GR-2A and GR-2B.
All steel parts shall be galvanized in accordance with ASTM A123, A153 or A525, whichever may apply.
This drawing shall govern where a conflict arises.

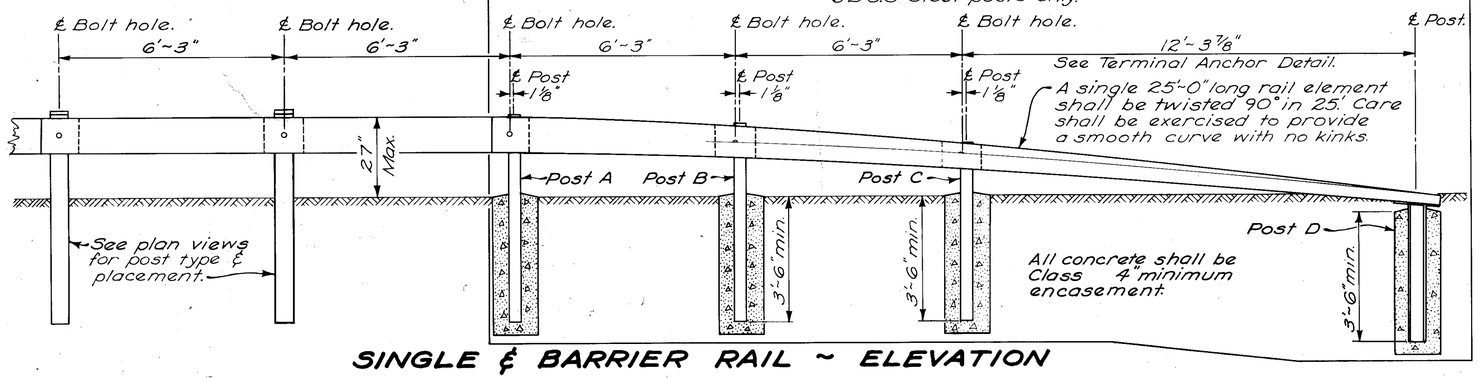
Type 5 Guardrail ~ Post spacing 6'~3" center to center.
Round or Square-sawed Wood, or 6 B 8.5 Steel (without concrete encasement).
For Type 4 guardrail omit offset blocks and space posts at 12'~6" centers.

APPROACH END ASSEMBLY
6 B 8.5 Steel posts only.

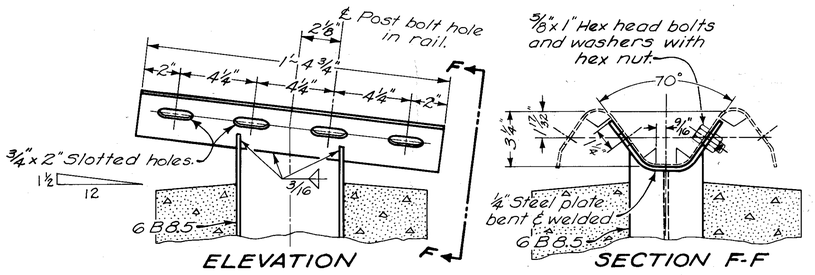


SINGLE RAIL ~ PLAN VIEW

APPROACH END ASSEMBLY
6 B 8.5 Steel posts only.



SINGLE & BARRIER RAIL ~ ELEVATION

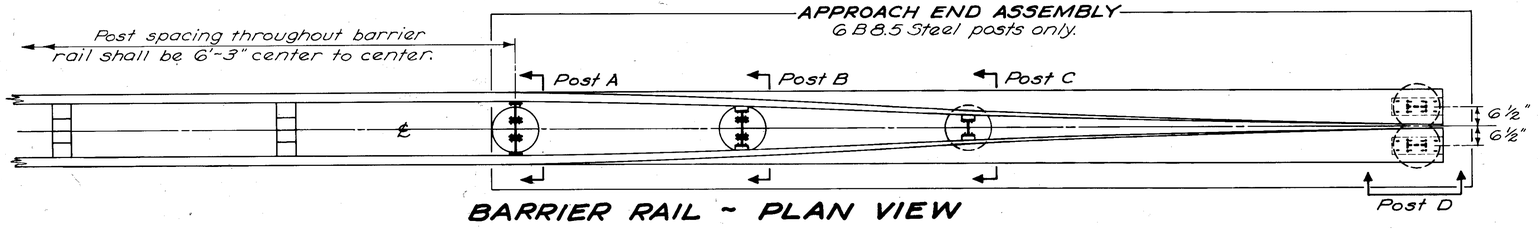


ELEVATION — SECTION F-F

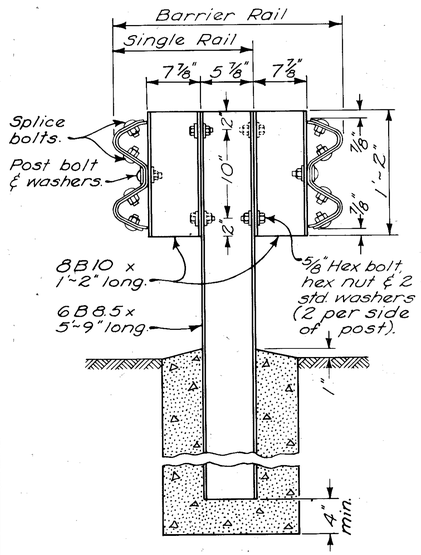
TERMINAL ANCHOR DETAIL

APPROACH END ASSEMBLY
6 B 8.5 Steel posts only.

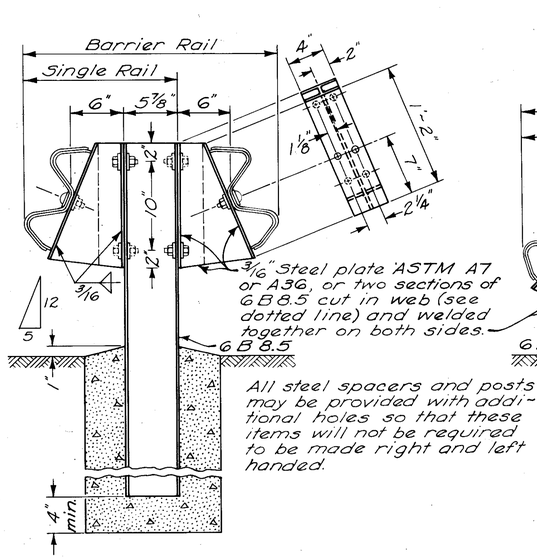
Post spacing throughout barrier rail shall be 6'~3" center to center.



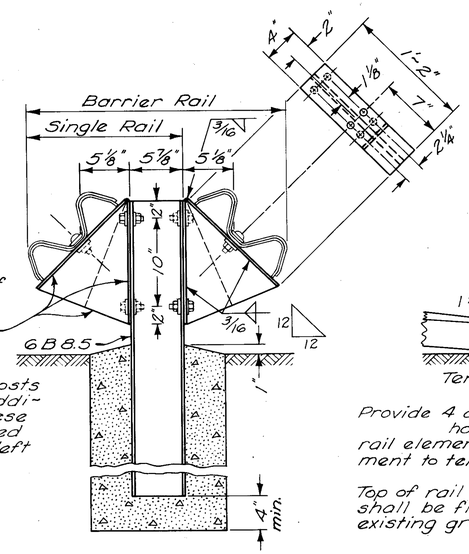
BARRIER RAIL ~ PLAN VIEW



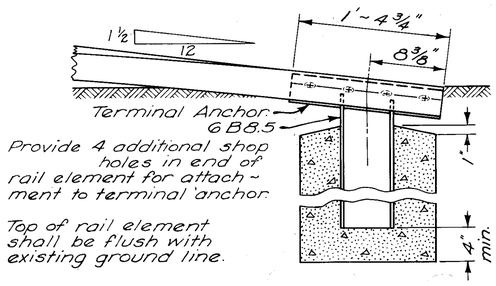
POST A



POST B



POST C



POST D

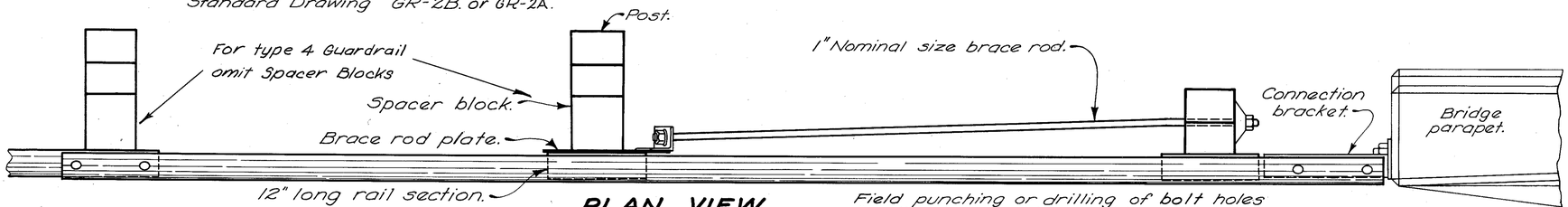
GR-4 : GUARD RAIL ~ APPROACH END ASSEMBLY Rev. 2-15-68

FED. RD. DIVISION	STATE	PROJECT	
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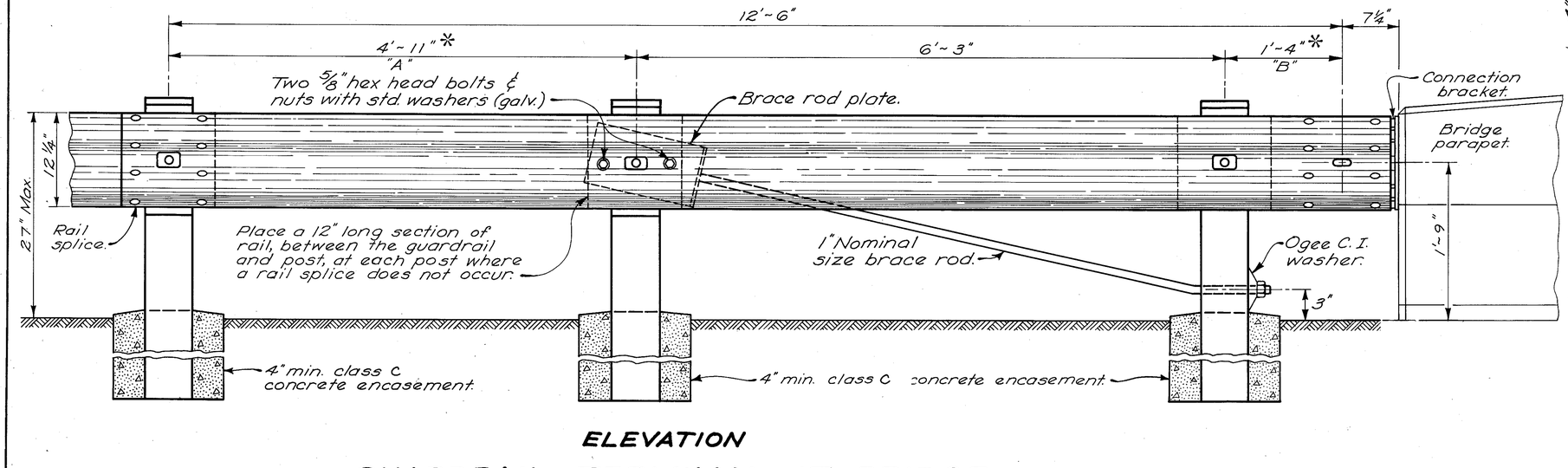
CLERMONT COUNTY
CLE. 275-6.68

Posts may be round or square-sawed wood, or 6B8.5 steel. See Standard Drawing GR-2B. or GR-2A.



PLAN VIEW

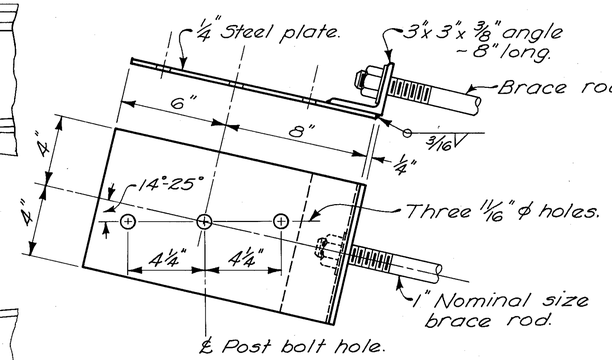
Field punching or drilling of bolt holes for the brace rod assembly shall be accomplished as provided for in 606.04.



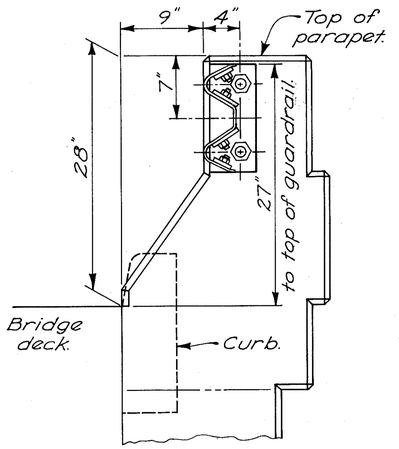
ELEVATION

GUARDRAIL TERMINAL AT BRIDGE

* Dimension "A" shall decrease as dimension "B" increases to accommodate interference by the bridge substructure.

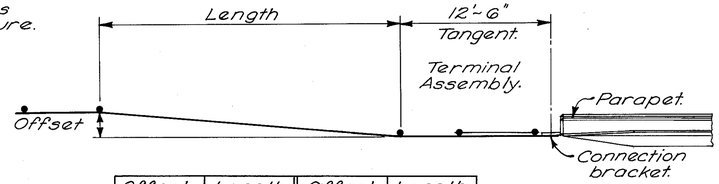


BRACE ROD PLATE



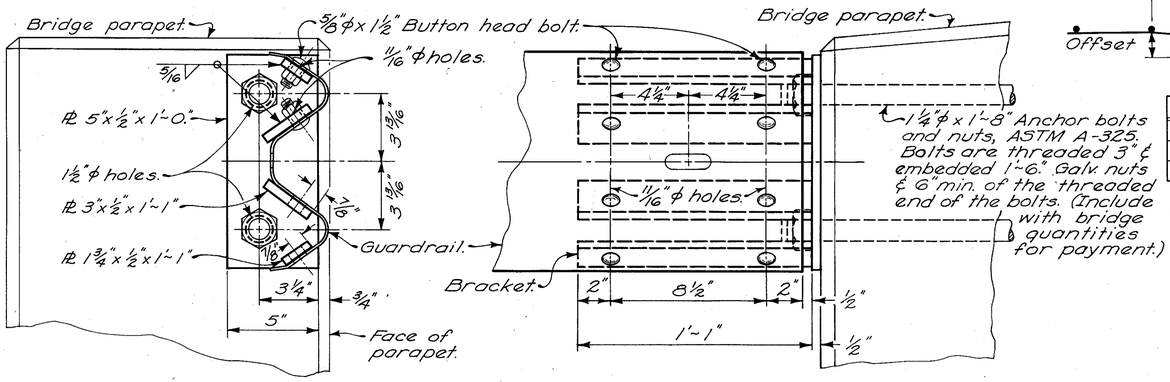
PARAPET APPROACH

For uncurbed approaches, guardrail shall be set 27" above ground line at face of rail. For curbed approaches guardrail shall be located 27" above gutter line and 9" behind the face of curb.



Offset	Length	Offset	Length
1'-0"	25.00'	5'-0"	100.00'
2'-0"	50.00'	6'-0"	100.00'
4'-0"	100.00'	7'-0"	100.00'

GUARDRAIL OFFSET DETAIL



CONNECTION BRACKET DETAIL

GUARDRAIL ~ BRIDGE CONNECTION

The connection bracket shall be galvanized after welding and shall be included with guardrail for payment.

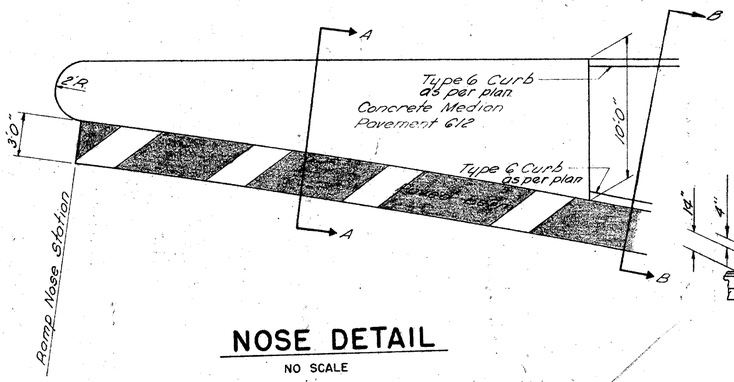
Rev. 7-10-68

GR-3 : BRIDGE TERMINAL ASSEMBLY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE-275-6.68

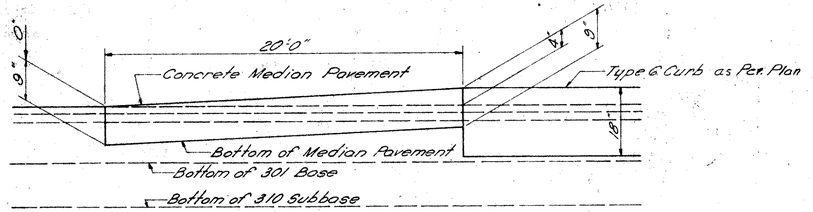


NOSE DETAIL

NO SCALE

Taper Nose From 0" to 4" in 20'0" Payment to be Made at Unit Price bid per Sq. Yd. of Item 612, Concrete Median Pavement. For Typical Nose Transition see Section A-A, this Sheet.

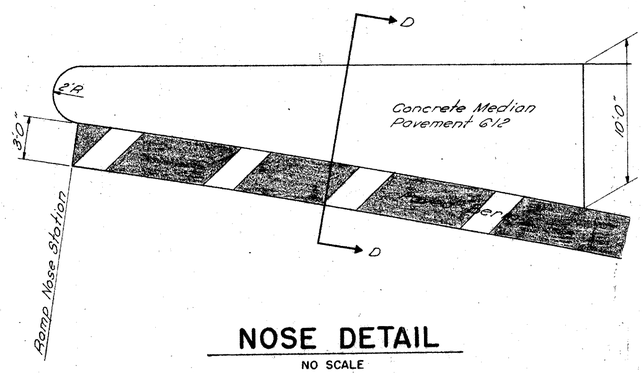
RAMP T Sta. 372+26.07 to Sta 372+61.07
RAMP F Sta. 536+71.47 to Sta 537+05.97
RAMP H Sta. 554+36.36 to Sta 554+65.86
RAMP J Sta. 546+54.89 to Sta. 546+83.39
RAMP K Sta. 555+65.18 to Sta. 555+85.18



TYPICAL NOSE TRANSITION

NO SCALE

Nose Transition to be Paid For at Unit Price bid per Sq. Yd. of Item 612, Concrete Median Pavement.

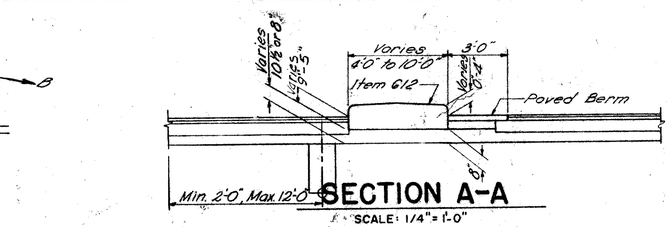


NOSE DETAIL

NO SCALE

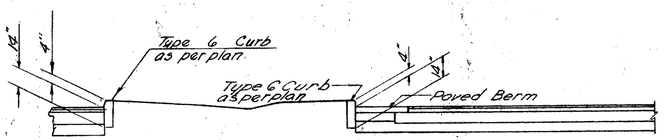
Payment to be Made at Unit Price bid per Sq. Yd. of Item 612, Concrete Median Pavement. For Typical Nose see Section D-D, this Sheet.

RAMP G Sta. 534+26.92 to Sta 534+46.92
RAMP I Sta. 547+13.10 to Sta. 547+33.10
RAMP L Sta. 562+63.93 to Sta. 562+98.93
RAMP M Sta. 564+43.42 to Sta. 564+64.42
RAMP W Sta. 396+92.93 to Sta. 397+24.93



SECTION A-A

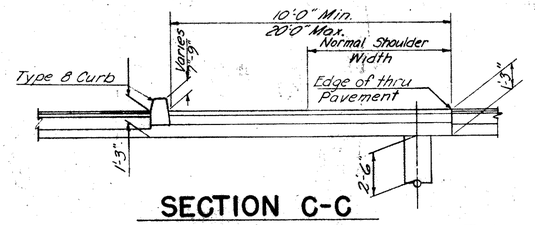
SCALE: 1/4"=1'-0"



SECTION B-B

SUBBASE TREATMENT EXIT DETAIL

SCALE: 1/4"=1'-0"

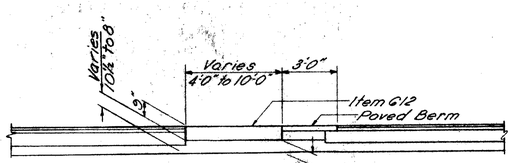


SECTION C-C

SUBBASE TREATMENT ENTRANCE DETAIL

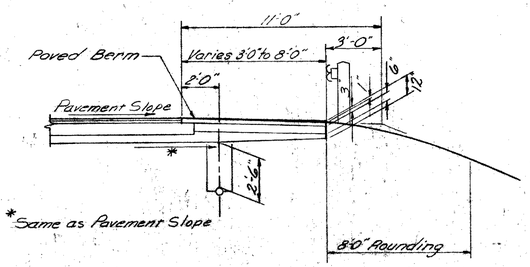
SCALE: 1/4"=1'-0"

For Locations see Sheet No's. 97, 98, 102, 104, 105, 107, 110, 112, 113 & 115



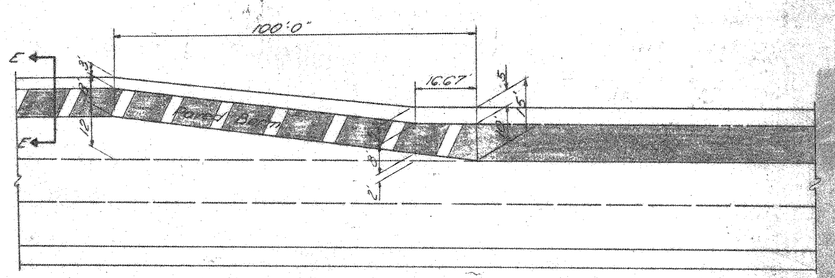
SECTION D-D

SCALE: 1/4"=1'-0"



SECTION E-E

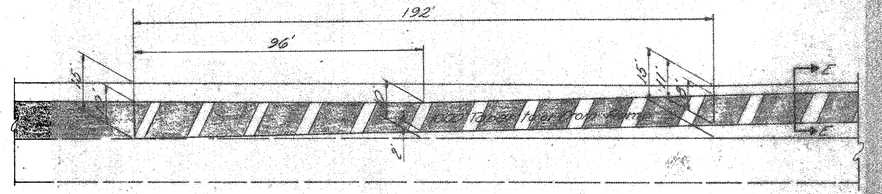
SCALE: 1/4"=1'-0"



TYPICAL DETAIL OF TAPER ON DECELERATION LANE TERMINALS ON HAM.-CLE. 275

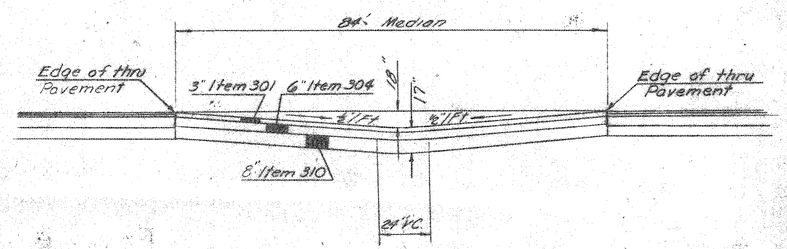
SCALE: 1"=20'-0"

RAMP T Sta. 364+29.73 to Sta 365+29.73
RAMP W Sta. 404+22.20 to Sta 405+22.20
RAMP F Sta. 528+78.36 to Sta 529+78.36
RAMP L Sta. 569+95.27 to Sta. 570+95



TYPICAL DETAIL OF TAPER-JOINT ACCELERATION LANE TERMINALS ON HAM.-CLE. 275

RAMP U Sta. 407+08 to Sta 409+00
RAMP V Sta. 362+75 to Sta 364+67
RAMP H Sta. 523+75 to Sta 525+67
RAMP J Sta. 577+95.60 to Sta. 579+87.60



MEDIAN CROSSOVER
STATIONS 416+50 & 514+00

SECTION M-M

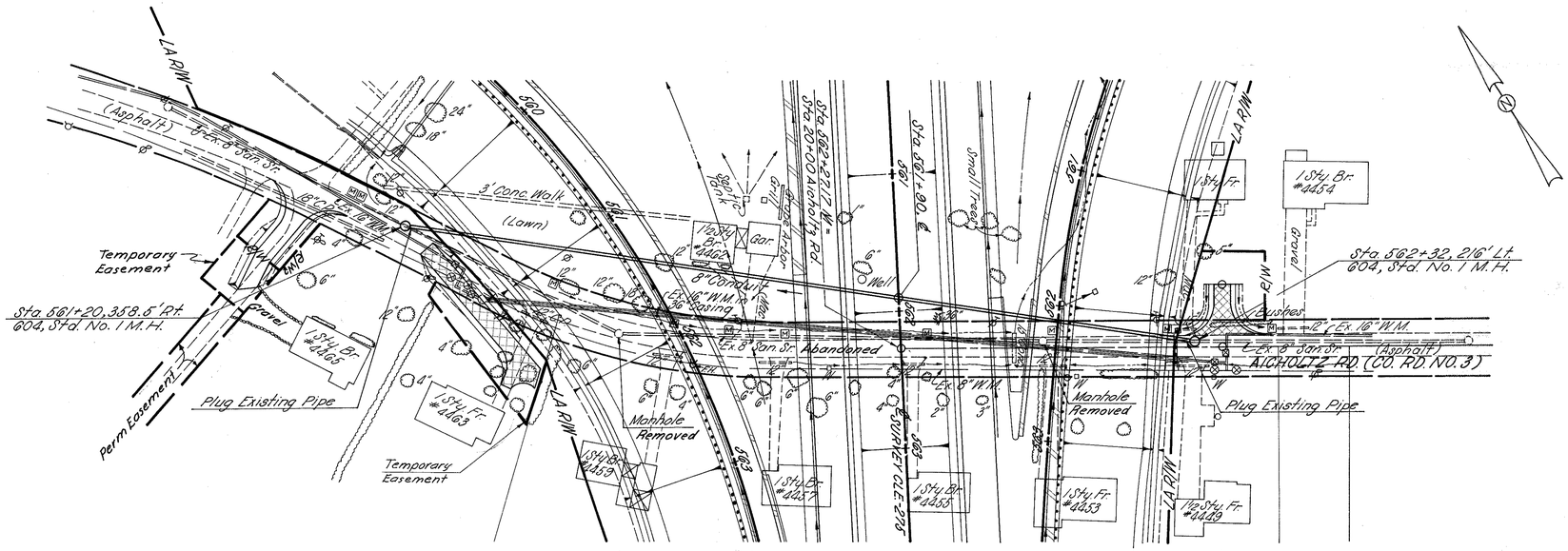
NO SCALE

PAVEMENT DETAILS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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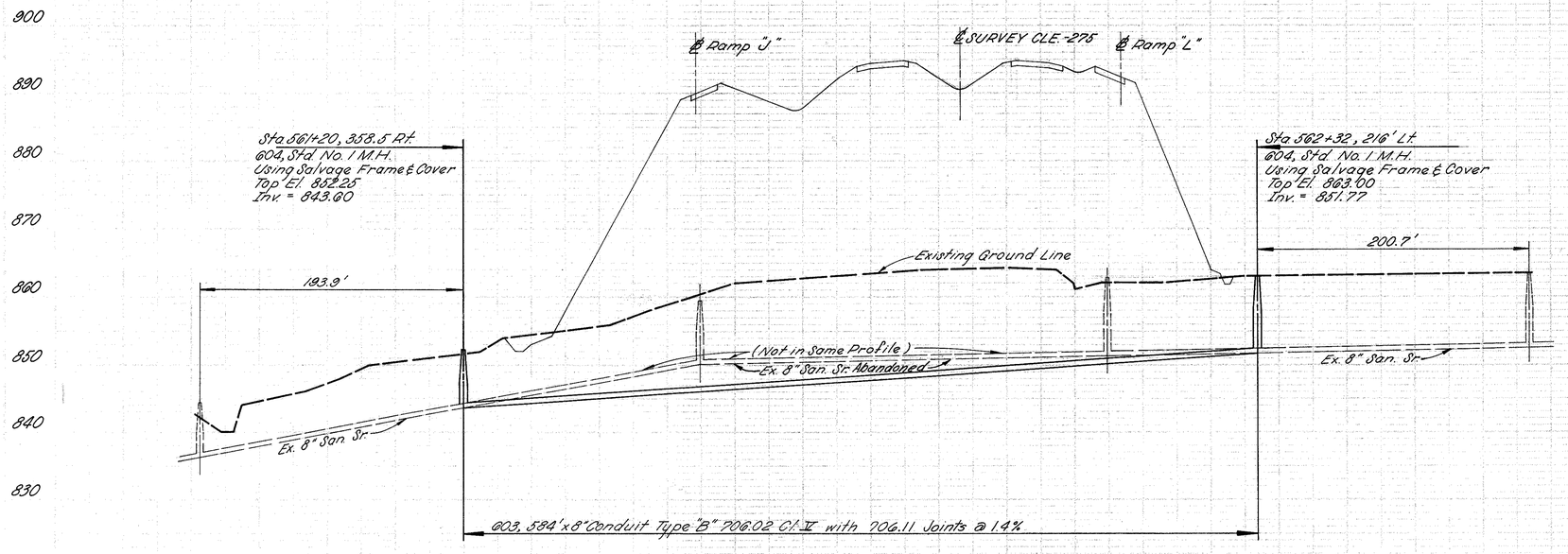
CLERMONT COUNTY
CLE.-275-6.68



B.M. X-Notch in Flange of F.H. 150' Rt. Sta. 562+25 Elev. 863.99

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	QUAN.	UNIT
202	Manholes Removed	2	Each
603	8" Conduit Type "B" 706.02 Cl. V with 706.11 Joints	584	Lin. Ft.
604	Standard No. 1 Manhole Using Salvage Frame & Cover as per plan	2	Each



CALC. EH DATE 12/12/68

CHK'D RM DATE 5/12/69

CO. RD. NO. 3 (AICHOLTZ ROAD)
SANITARY SEWER AT STA. 561+90

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
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Sta 48+60, 12' Lt.
1-8"x6" Valve - M.J.
1-Std. Valve Box (Complete)
See Detail Sht. No. 19
1-8" Cutting In Sleeve M.J.
Sta 48+65, 12' Lt.
2-8"x45° Bends - 2 M.J.
Sta 46+77, 12' Lt.
1-8" Solid Sleeve M.J.

Sta 48+05, 16' Lt.
1-Air Valve
1-Std. Air Valve Box & Cover (Complete) See Detail Sht. No.
Sta 48+15, 16' Lt.
1-8"x45° Bend - 2 M.J.

Sta 48+32, 37' Lt.
1-8"x45° Bend - 2 M.J.
Sta 48+65, 37' Lt.
1-8"x22½° Bend - 2 M.J.

Sta 49+00, 37' Lt.
1-8"x22½° Bend - 2 M.J.

Sta 51+30, 37' Lt.
1-8"x22½° Bend - 2 M.J.
Sta 51+86, 37' Lt.
1-8"x45° Bend - 2 M.J.
Sta 52+06, 16' Lt.
1-8"x45° Bend - 2 M.J.
Sta 52+11, 16' Lt.
1-Std. Valve
1-Std. Air Valve Box & cover (Complete)

(From Sta. 48+70)
Sta 55+25
1-Reset Ex. F. Hyd. Head
1-Std. Valve Box (Complete)
1-8"x6" Tee - 3 M.J.
1-6"x90° Bend - 2 M.J.
1-6" Valve - M.J.

Sta 58+13, 16' Lt.
1-8" Solid Sleeve M.J.
Sta 58+25, 16' Lt.
2-8"x45° Bend - 2 M.J.
Sta 58+30, 13' Lt.
1-8" Valve - M.J.
1-Std. Valve Box (Complete)
1-8" Cutting In Sleeve M.J.

Leach Area
Septic Tank
#718
Gas Pumps
Temporary Easement
Existing R/W
Existing 8" Water Main
Macadam
#715
Septic Tank
Leach Area
R/W
LA R/W
PROPOSED 8" WATER MAIN
Septic
Sta 1+04 End Work
Temporary Easement
Abandon Ex. 8" Water Main
Existing 8" Water Main
Exist. 8" W.M.
℄ COUNTY ROAD No. 171 (CINCINNATI - BATAVIA PIKE)
Sta 50+00.00 Cinti. Batavia Pk. =
Sta 532+73.25 I-275
PROPOSED TEMPORARY ROAD
15" C.P.
24" Conduit
18" Conduit
6" Conduit

NOTE: Sta 48+70 535
1-Remove Ex. Item 203
Valve Box for Reuse
1-Remove Ex. F. Hyd. Head
(Reset at Sta. 55+25) 535

Note:
For Details & Notes see Sheet No's. 19 & 20

Note:
Profile Stationing along ℄ Cincinnati-Batavia Pike
Profile along ℄ 8" Water Main

Sta 50+14.84, 37' Lt.
Inv. 6" Under-drain 858.8'±
Inv. 6" Under-drain 860.6'±
Inv. 21" Conduit 857.7'±
Inv. 6" Under-drain 860.2'±
Inv. 6" Under-drain 857.7'±
Existing Ground
Prop. Surface
Existing 8" Water Main (Abandon)
Sta 46+65, 12' Lt. Begin Prop. 8" W.M.
Prop. 8" W.M. C.I. Pipe A.S.A. Class 23
15" Conduit
Proposed Ground
Prop. 8" W.M. C.I. Pipe A.S.A. Class 23
Existing 8" Water Main (Abandon)
Existing 8" Gas Main
Sta 58+25, 8' Lt. End Prop. 8" W.M.

890
880
870
860
850
840

45 46 47 48 49 50 51 52 53 54 55 56 57 58

CODE TYPE Y060

ITEM	UNIT	WATER WORKS SUMMARY	QUANT.
814	Lin.Ft.	8" New Water Main C.I. Pipe A.S.A. Class 23	
		Mech. Joint, including Fittings, Cement Lined	1146
814	Lin.Ft.	6" New Water Main C.I. Pipe A.S.A. Class 22	
		Cement Lined ... Mech. Joints including	
		Fittings	10
814	Each	6" Fire Hydrant Removed and Reset	1
			1
814	Each	Furnishing & Installing Air Valve	
		Assembly Complete as per plan	2
509	Lbs.	Reinforcing Steel	612
814	Each	8" Gate Valve and Box	2
814	Each	6" Gate Valve and Box	1

Note:
Provide minimum clearance of 12" between proposed water main and all drains & sewers.

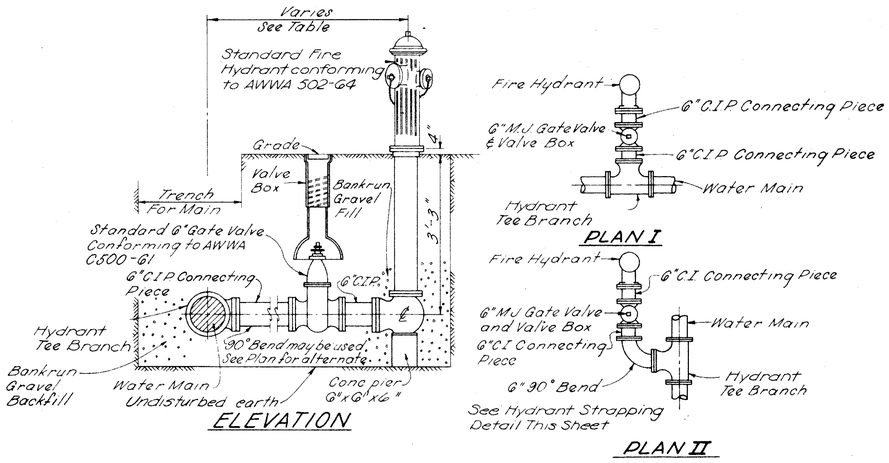
CALC. E.H. DATE 12/12/68
CHK'D [illegible] DATE 5.2.69

8" WATER MAIN
CO. RD. NO. 171
CINCINNATI-BATAVIA PIKE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE-275-6.68



FIRE HYDRANT ASSEMBLY

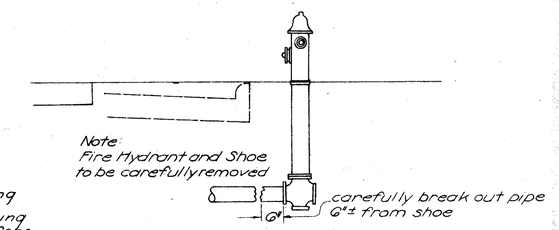
STANDARD LOCATION OF FIRE HYDRANTS

(Plan I or Plan II shall be installed as ordered by the Engineer as directed by the County)

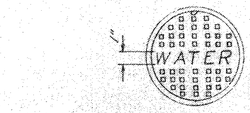
Fire Hydrants To Set As Follows:

WIDTH of R/W	DIST. FROM CENTER LINE OF R/W TO FIRE HYDRANT
40	19'-6"
50	24'-0"
60	29'-6"
70	34'-6"

Note:
Fire Hydrant Connections (fire hydrant, tees, valves, pipe and fittings) shall be assembled with mechanical joints bolted together. ¾ϕ round tie rods and eye bolts shall be employed. Not less than two (2) eye bolts shall be used on opposite sides of the pipe, valves or fitting by means of ¾ϕ round steel bars properly and adequately tying the hydrant, pipe, valve and fittings together to prevent movement.

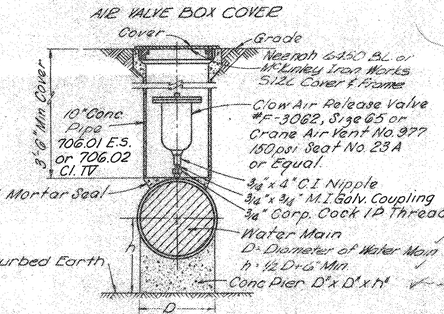


FIRE HYRANT REMOVAL

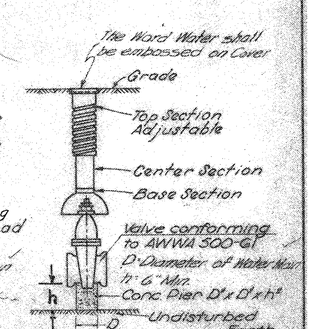


Height of Letters and Lugs shall be approved by the Engineer.

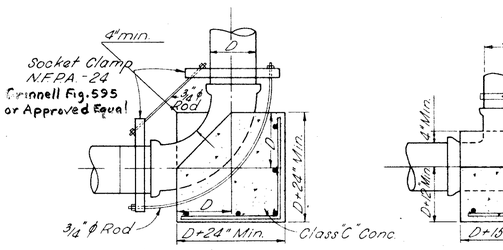
AIR VALVE BOX COVER



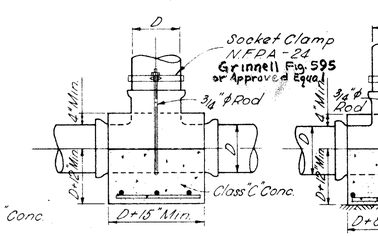
AIR VALVE BOX & COVER



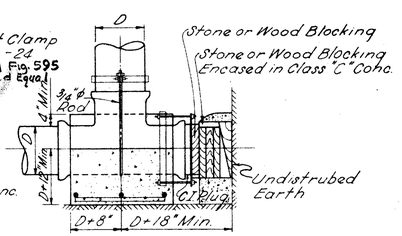
DETAIL OF VALVE BOX



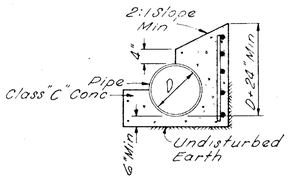
DETAIL FOR 61° TO 90° BENDS
(For use either horizontal or vertical bends.)



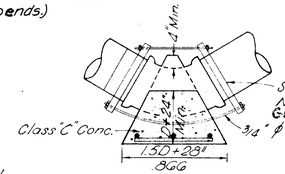
DETAIL FOR TEES



OF PLUGGED TEE OR CROSS

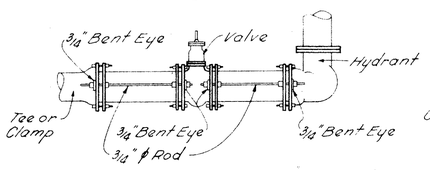


TYPICAL SECTION

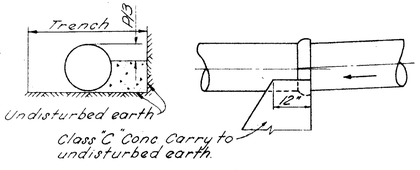


DETAIL FOR 60° AND UNDER BENDS
(For use either horizontal or vertical bends.)

Note:
All reinforcing to be #6 bars placed on 12" CC except longitudinal bars shall be placed 6" CC. Payment for furnishing and installing reinforcing steel shall be paid for at the unit price bid for Item 509 Reinforcing Steel.



HYDRANT STRAPPING DETAIL

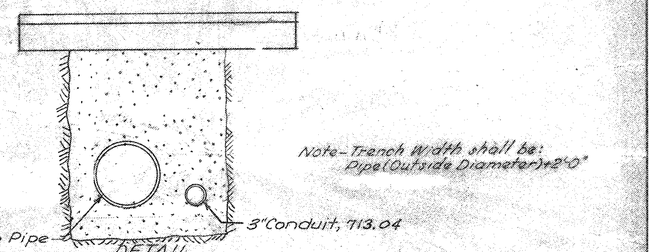


BLOCKING AT JOINTS ON CURVES LAID WITH FULL LENGTH PIPE

REACTION BACKING

FOR ESTIMATING PURPOSES ONLY

SIZE OF PIPE	TYPE FITTING	CONC. CU. YDS.	STEEL LBS.
6"	CURVE JOINT	0.035	0
8"	" "	0.044	0
6"	BEND 60° & UNDER	0.42	38
8"	" " "	0.62	42
6"	BEND 61° TO 90°	0.50	59
8"	" " "	0.66	66
6"	TEE	0.18	17
8"	"	0.34	20
6"	CROSS	0.22	17
8"	"	0.40	20



DETAIL OF CASING PIPES

CALC. C.H. DATE 12-12-68

CHK'D A.B. DATE 12-17-68

STANDARD DETAILS FOR CLERMONT COUNTY WATER MAINS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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GENERAL NOTES

CLERMONT COUNTY WATER WORKS

ITEM 814 FURNISHING AND INSTALLING AIR VALVE ASSEMBLY COMPLETE AS PER PLAN

THE CONTRACTOR SHALL FURNISH ALL MATERIALS FABRICATE AND INSTALL THE AIR VALVE BOX AND COVER AS DETAILED ON SHEET NO. 19 INCLUDING MAKING THE CORPORATION COCK CONNECTION TO THE 8" WATER MAIN.

PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE BID PER EACH "ITEM 814 - FURNISHING AND INSTALLING AIR VALVE ASSEMBLY COMPLETE" WHICH SHALL CONSTITUTE FULL COMPENSATION FOR THE EXCAVATION, BACKFILLING, MAKING THE 3/4" CORPORATION TAP CONNECTION, INSTALLING THE AIR RELEAVE VALVE AND BOX ASSEMBLY, CONCRETE PIER AND SURFACE RESTORATION INCLUDING THE FURNISHING OF ALL LABOR, MATERIAL, TOOLS AND EQUIPMENT.

ITEM 814 FURNISHING AND INSTALLING STEEL CASING

THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING A CASING OF THE DIAMETER AND WALL THICKNESS INDICATED, TO PERMIT THE LAYING OF A WATER MAIN AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

MATERIAL:
STEEL - A.S.T.M. A-139 GRADE B
TYPE OF JOINING - WELDED
BRICK ITEM 704
BITUMINOUS COATING INSIDE AND OUTSIDE AS PER 707.04

THE CONTRACTOR SHALL PERFORM THE EXCAVATION, BORING OR JACKING NECESSARY TO INSTALL THE STEEL CASING TO THE LINE AND GRADE SHOWN ON THE PLANS. ANY DEVIATION IN GRADE OR ALIGNMENT OF THE CASING WHICH SHALL PREVENT THE INSTALLATION AS DESIGNED OR ACCESS FOR MAINTENANCE, WILL REQUIRE THE CONTRACTOR TO REINSTALL THE CASING IN THE PROPER MANNER. AFTER THE WATER MAIN IS LAID THE CONTRACTOR WILL FILL ALL VOIDS BETWEEN THE OUTSIDE OF THE PIPE AND THE CASING WALL WITH PEA GRAVEL. BOTH ENDS OF THE CASING SHALL BE CLOSED WITH A 4" BRICK BULKHEAD.

PAYMENT UNDER THIS ITEM WILL CONSTITUTE FULL PAYMENT FOR ALL EXCAVATION, FURNISHING AND INSTALLING CASING, BULKHEADS, BACKFILLING OF CASING AND SHAFTS, RESTORATION, LABOR, MATERIAL, TOOLS AND EQUIPMENT NECESSARY TO INSTALL THE CASING AS SPECIFIED ABOVE. PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE BID PER LINEAR FOOT OF ITEM 814 - FURNISHING AND INSTALLING STEEL CASING, OF THE SIZES SPECIFIED. PAYMENT FOR INSTALLING THE WATER MAIN IN CASING WILL BE MADE UNDER ITEM 814 - NEW WATER MAINS.

ITEM 814 STERILIZING

JUST PRIOR TO INCORPORATING ALL VALVES AND FITTINGS INTO OR AT THE ENDS OF EXISTING WATER MAINS THE VALVES AND FITTINGS SHALL BE STERILIZED AS PER A. W.W.A. SEC. C 601 - 5A.

STERILIZING OF ALL NEW WATER MAINS AND FITTINGS SHALL BE ACCOMPLISHED IN A MANNER ACCEPTABLE TO THE ENGINEER AND AS SPECIFIED IN ITEM 814.07 AND 814.09.

SURFACE RESTORATION

ESTIMATED QUANTITIES OF PAVEMENT RESTORATION INCIDENT TO THE WATER WORK HAVE BEEN PROVIDED IN THE GENERAL SUMMARY.

ITEM 814 NEW CAST IRON PIPE CEMENT LINED

CAST IRON PIPE TO CONFORM TO A.W.W.A. C106, A.S.A. A21.6 AND SHALL BE CEMENT MORTAR LINING CONFORMING TO A.W.W.A. C104, A.S.A. A21.4 AND SHALL HAVE MECHANICAL JOINTS CONFORMING TO A.W.W.A. C111, A.S.A. A21.11. PIPE WALL THICKNESS TO BE A S.A. CLASS 22 FOR ALL 6" PIPE AND A.S.A. CLASS 23 FOR ALL 8" PIPE. MECHANICAL JOINT FITTINGS SHALL BE A.W.W.A. C110 AND C111, A.S.A. A21.10 AND A21.11 WITH CEMENT MORTAR LINING CONFORMING TO A.W.W.A. C104 A.S.A. A21.4 AND SHALL BE CLASS 250.

INSPECTORS

THE INSPECTORS AS DESIGNATED BY THE CLERMONT COUNTY WATER WORKS ENGINEER SHALL BE AUTHORIZED TO INSPECT ALL WORK DONE AND MATERIALS FURNISHED. NO ONE EXCEPT THE CLERMONT COUNTY WATER WORKS ENGINEER SHALL HAVE THE AUTHORITY TO GRANT PERMISSION TO TURN OFF OR ON ANY VALVES OR THE CUTTING OF ANY WATER MAINS IN THE CLERMONT COUNTY WATER SYSTEM. THE INSPECTORS DESIGNATED BY THE UTILITY SHALL WORK ALL INSTRUCTIONS THROUGH THE PROJECT ENGINEER.

EXISTING WATER MAIN TURN-OFF TIME

THE CONTRACTOR SHALL NOTIFY THE CLERMONT COUNTY WATER WORKS ONE WEEK IN ADVANCE OF THE DATE HE WILL REQUEST THE EXISTING WATER MAINS TO BE TURNED OFF. THE EXISTING WATER MAINS MAY ONLY BE TURNED OFF BETWEEN THE HOURS OF 7:30 P.M. AND 6:00 A.M. OR AS APPROVED BY THE CLERMONT COUNTY WATER WORKS ENGINEER.

SEQUENCE OF CONSTRUCTION FOR THE INSTALLATION OF THE PROPOSED 8" WATER MAIN ON CO. RD. NO. 171 CINCINNATI-BATAVIA PIKE.

THE CONTRACTOR SHALL CUT THE EXISTING WATER MAIN AT STA. 46 + 60 AND AT STA. 58 + 30. THEN THE 8" VALVES, PIPE AND 45° BENDS SHALL BE PLACED AND BACKFILLED BETWEEN STA. 46 + 60 TO STA. 46 + 77 AND STA. 58 + 13 TO STA. 58 + 30. THE ENDS OF THE PIPE AT STA. 46 + 77 AND STA. 58 + 13 SHALL BE TEMPORARILY PLUGGED. THE NEW 8" VALVES SHALL BE TURNED OFF AND THE EXISTING WATER MAIN OPENED AGAIN FOR NORMAL SERVICE. (The existing 8" Water Line is part of a Water Main Loop).

THE PROCEDURE USED TO INSTALL THE REMAINING 8" WATER MAIN FROM STA. 46 + 77 TO STA. 58 + 13 SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

WATER MAIN REMOVED AND DISPOSED OF

Water Pipe, Fittings and Appurtenances indicated, "Abandoned," shall be removed within the limits of excavation and shall be included in the price bid for Item 203-Excavation.

Water Main items indicated for removal by the Contractor shall become the property of the Contractor and shall be removed and disposed of by him and no additional payment will be made.

ITEM 814 - NEW WATER MAINS AND SERVICE BRANCHES

Socket Clamps and Tie Rods furnished and installed shall be included in the Contract Unit Price bid per Linear Foot for Item 814 - New Water Mains and Service Branches.

CALC. EH DATE 12/12/68

CHK'D AB DATE 12/17/68

CLERMONT COUNTY WATER WORKS GENERAL NOTES

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GENERAL NOTES

MAINTAINING TRAFFIC

PROVISIONS FOR THE MAINTENANCE OF TRAFFIC ON ALL PUBLIC ROADS AFFECTED BY THIS IMPROVEMENT SHALL BE AS FOLLOWS:

TOWNSHIP ROAD NO. 211 (BARGS SALT RUN ROAD): TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING ROADWAY, THE PROPOSED STRUCTURE AND APPROACHES & TEMPORARY PAVEMENT CONSTRUCTED ON THE BERM AND DITCH AREA SURFACED WITH 410 AGGREGATE AND STABILIZED WITH 616 CALCIUM CHLORIDE.

COUNTY ROAD NO. 171 (CINCINNATI-BATAVIA PIKE): TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE PROPOSED STRUCTURE AND APPROACHES & ITEM 615, TEMPORARY ROADS, PAVED WITH 615 TEMPORARY PAVEMENT CLASS B AS DETAILED ELSEWHERE IN THESE PLANS.

STATE ROUTE 32: TWO-WAY TRAFFIC, TWO LANES IN EACH DIRECTION, SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING ROADWAY & TEMPORARY PAVEMENT SURFACED WITH 410 AGGREGATE AN STABILIZED WITH 616 CALCIUM CHLORIDE CONSTRUCTED ON THE BERM AND DITCH AREAS DURING THE CONSTRUCTION OF THE TWO OVERHEAD STRUCTURES AND AT THE PROPOSED CULVERT CONSTRUCTION AREAS.

COUNTY ROAD NO. 3 (AICHOLTZ ROAD): EXISTING AICHOLTZ ROAD SHALL REMAIN OPEN TO TWO-WAY TRAFFIC UNTIL RELOCATED AICHOLTZ ROAD AND RUST LANE EXTENSION ARE COMPLETED AND OPEN TO TRAFFIC.

THE LIMITS AND DURATION OF USE OF TEMPORARY ROADWAYS SHALL BE HELD TO AN ABSOLUTE MINIMUM AND IN ALL CASES SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. IT IS NOT INTENDED THAT TEMPORARY ROADWAYS BE USED EXCLUSIVELY FOR MAINTAINING TRAFFIC ON THIS PROJECT BUT THAT MAXIMUM USAGE BE MADE OF EXISTING AND PROPOSED PAVEMENTS.

TRAFFIC SHALL BE MAINTAINED AT ALL TIMES AS DESCRIBED ABOVE EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

TRAFFIC COMPACTED SURFACE COURSE, ITEM 410 AND CALCIUM CHLORIDE, ITEM 616 SHALL BE APPLIED ON TEMPORARY ROADWAYS AS DIRECTED AND IN THE AMOUNTS REQUESTED BY THE ENGINEER. THE HARDNESS AND SOUNDNESS REQUIREMENTS OF THE SPECIFICATIONS SHALL BE WAIVED ON ALL OF THE 410 MATERIAL USED FOR MAINTAINING TRAFFIC.

ESTIMATED QUANTITIES (TO GENERAL SUMMARY)

ITEM 410, TRAFFIC COMPACTED SURFACE TYPE "A" or "B"	553 CU. YDS.
ITEM 410, TRAFFIC COMPACTED SURFACE TYPE "C"	297 CU. YDS.
ITEM 616, CALCIUM CHLORIDE	17 TONS
ITEM 616, WATER	17 M. GALS.

PAYMENT FOR ALL OF THE ABOVE, INCLUDING CONSTRUCTION, MAINTENANCE AND SUBSEQUENT REMOVAL, WHEREVER REQUIRED, OF TEMPORARY ROADWAYS EXCEPT ITEMS 615 TEMP. RDS. & PAVEMENT, FURNISHING AND PLACING ITEM 410 TRAFFIC COMPACTED SURFACE, AND ITEMS 616 CALCIUM CHLORIDE & WATER IS INCLUDED IN THE LUMP SUM BID FOR "ITEM 614 MAINTAINING TRAFFIC".

GENERAL

ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS

THE ROUNDED CORNERS SHOWN ON THE TYPICAL SECTIONS, APPLY TO ALL CROSS SECTIONS EVEN THOUGH OTHERWISE SHOWN ON THESE PLANS.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON U.S.C. AND G.S. DATUM.

FIELD OFFICE

THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 800 SQ. FT. OF FLOOR SPACE FOR THE FIELD OFFICE AND IN ADDITION TO THE REQUIREMENTS OF ITEM 619, SHALL PROVIDE AND MAINTAIN SANITARY PROVISIONS AS PER 107.06. ALL THE ABOVE IS INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 619 FIELD OFFICE.

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT BUT THE STATE OF OHIO DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. *For utility owners and addresses see Sht. No. 29.*

ESTIMATED QUANTITIES

SPECIFIC LOCATIONS AND USAGE OF THE ESTIMATED QUANTITIES SET UP ON THIS PLAN TO BE USED "AS DIRECTED BY THE ENGINEER" SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT. *Estimated quantities of materials shall not be ordered for delivery to the project unless authorized by the Engineer.*

CONSTRUCTION LAYOUT STAKES

SEE NOTE IN PROPOSAL DESCRIBING THE WORK INCLUDED IN THIS LUMP SUM PAY ITEM.

FEDERAL AID CONSTRUCTION IDENTIFICATION SIGNS

THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN AND SUBSEQUENTLY REMOVE FEDERAL AID CONSTRUCTION IDENTIFICATION SIGNS AT EACH OF THE FOLLOWING *APPROXIMATE LOCATIONS:*

1. CO. RD. NO. 171 (CINCINNATI-BATAVIA PIKE) STA. 44 + 00 RT. AND STA. 59 + 25 LT.
2. STATE ROUTE 32 STA. 56 + 00 RT. AND STA. 110 + 50 LT.

SIGN DETAILS SHALL BE AS SPECIFIED ON STANDARD DRAWING FACI-1 CODE N-55(1) - 120 (2) AND THE SIGNS SHALL BE ERECTED IN ACCORDANCE WITH STANDARD DRAWING FACI-2. ADDITIONAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH NOTES IN THE PROPOSAL.

ROADWAY

REMOVAL OF EXISTING PIPE

THE REMOVAL OF ALL EXISTING PIPE DRAINS WHICH WOULD NORMALLY BE REMOVED IN VARIOUS EXCAVATION ITEMS SHALL BE INCLUDED FOR PAYMENT IN THE UNIT PRICES BID FOR THE RESPECTIVE EXCAVATION ITEMS, UNLESS OTHERWISE ITEMIZED IN THE PLANS.

REMOVAL OF TREES AND STUMPS

ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT SHALL BE REMOVED UNDER THE LUMP SUM PRICE BID FOR ITEM 201 CLEARING AND GRUBBING, EXCEPT THAT THOSE TREES FOR WHICH PROTECTION AND PRESERVATION WORK IS INDICATED ELSEWHERE IN THESE PLANS SHALL NOT BE REMOVED.

THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS
18"	1463	5
30"	177	2
48"	61	3

THE ABOVE ESTIMATE IS APPROXIMATE AND THE STATE OF OHIO RESERVES THE RICHT TO ORDER THE REMOVAL OF ADDITIONAL TREES OR STUMPS OUTSIDE OF THE LIMITS OF CONSTRUCTION BUT WITHIN THE RIGHT-OF-WAY AND/OR EASEMENT LINES. PAYMENT FOR THE REMOVAL OF THESE ADDITIONAL TREES OR STUMPS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201 CLEARING AND GRUBBING.

CENTERLINE REFERENCE MONUMENTS

FOR LOCATION SEE SHEET NO. 598 & 599

SEEDING FORMULA

THE FOLLOWING SEED MIXTURES SHALL BE USED THROUGHOUT THE LIMITS OF THIS PROJECT:

(1) AREAS IN FRONT OF AND ADJACENT TO RESIDENCES:

IN ACCORDANCE WITH 659.09

(2) REST AREAS:

IN ACCORDANCE WITH 659.09 "URBAN AND RESIDENTIAL" MIXTURE AS PER THE FOLLOWING LIMITS:

ENTIRE REST AREAS PLUS THE TOTAL AREAS ALONG THE OUTSIDE OF THE RAMPS TO THE RAMP NOSES WITH THE MAINLINE AND THE ENTIRE AREAS BETWEEN THE MAINLINE AND RAMP NOSES WITH THE MAINLINE.

(3) STATION 392 + 00 RT. - STATION 401 + 00 RT. (ON CUT SURFACE ONLY):

40% HAIRY VETCH (VICIA VILLOSA)
40% KENTUCKY 31 FESCUE (FESTUCA ARUNDINACEA VAR. KY. 31)
20% CEREAL RYE (SECALE CEREALE)

(4) STATION 402 + 50 LT. - STATION 412 + 00 LT. AND STATION 403 + 50 RT. - STATION 414 + 00 RT. (BEGINNING AT A POINT TEN FEET FROM EDGE OF PAVED SHOULDER TO TOE OF EMBANKMENT)

STATION 462 + 50 LT. - STATION 474 + 50 LT., STATION 496 + 00 LT. - STATION 510 + 00 LT., STATION 468 + 00 RT. - STATION 478 + 50 RT. AND STATION 498 + 50 RT. - STATION 509 + 50 RT. (BEGINNING AT A POINT THIRTY FEET FROM EDGE OF PAVED SHOULDERS TO TOP OF CUTS):

30% HAIRY VETCH (VICIA VILLOSA)
60% KENTUCKY 31 FESCUE (FESTUCA ARUNDINACEA VAR. KY. 31)
10% RED CLOVER (TRIFOLLUM PRAETENSE - CENTRAL GROWN)

(5) ALL OTHER AREAS:

IN ACCORDANCE WITH 659.09

THE ABOVE SHALL BE THOROUGHLY MIXED AND THEN EVENLY SOWN OVER THE AREAS AT THE RATE THREE (3) POUNDS PER 1,000 SQUARE FEET IN ACCORDANCE WITH ITEM 659 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS. STRICT ADHERENCE SHALL BE REQUIRED TO THE INOCULATION OPERATIONS AS OUTLINED UNDER ITEM 659.05 AND 659.07 FOR THE RED CLOVER SEEDS.

SEEDING

MAINLINE: QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS BETWEEN THE RIGHT-OF-WAY FENCE LINES, BETWEEN THE RIGHT-OF-WAY LINES IN UNFENCED AREAS AND WITHIN THE WORK LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENTS, TEMPORARY AGREEMENTS OR DRAINAGE EASEMENTS.

TOWNSHIP ROAD NO. 211 (BARG SALT RUN ROAD), RELOCATED COUNTY ROAD NO. 3 (RELOCATED AICHOLTZ ROAD), RUST LANE EXTENSION AND AICHOLTZ ROAD CUL-DE-SACS: QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS BETWEEN THE WORK LIMITS, AS SHOWN ON THE CROSS SECTIONS.

COUNTY ROAD NO. 171 (CINCINNATI-BATAVIA PIKE) AND STATE ROUTE 32: QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS BETWEEN LINES TEN (10) FEET OUTSIDE THE WORK LIMITS, AS SHOWN ON THE CROSS SECTIONS, OR TO THE RIGHT-OF-WAY LINE IF SUCH LINE IS LESS THAN TEN (10) FEET FROM THE WORK LIMITS.

659 COMMERCIAL FERTILIZER

ALL AREAS TO BE SEEDED UNDER ITEM 659, SODDED UNDER ITEM 660 OR JUTE MATTING UNDER ITEM 667 SHALL HAVE COMMERCIAL FERTILIZER 12-12-12 APPLIED AT THE RATE OF TWENTY (20) POUNDS PER 1,000 SQUARE FEET.

AGRICULTURAL LIMING MATERIALS

AGRICULTURAL LIMING MATERIALS, 659.02 SHALL BE APPLIED TO ALL SEEDED, SODDED OR JUTE MATTING AREAS AT THE RATE OF 100 LBS. PER 1,000 SQUARE FEET AS PER SPECIFICATIONS.

ITEM 661 PLANTING VINES

THE FOLLOWING VINES SHALL BE FURNISHED AND PLANTED IN ACCORDANCE WITH ITEM 661:

LONICERA JAPANICA HALLEANA (HALL'S JAPANESE HONEYSUCKLE 2 YR. NO. 1)

STATION 392 + 00 RT. - STATION 398 + 50 RT. - ON THE CUT AREA ABOVE THE ROCK LEVEL SURFACE. FIRST ROW OF VINES SHALL BE LOCATED ON THE ROCK SURFACE LEVEL.

STATION 398 + 50 RT. - STATION 401 + 00 RT., STATION 376 + 50 LT. - STATION 380 + 25 LT. AND STATION 396 + 50 LT. - STATION 400 + 00 LT. ON ENTIRE CUT AREAS IN ACCORDANCE WITH ITEM 661.

CALC. A.B. DATE 10/20/69
CHK'D J.R. DATE 10/20/69

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GENERAL NOTES

ITEM 203 PROOF ROLLING

AN ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN PROVIDED IN THE GENERAL SUMMARY FOR USE IN PROOF ROLLING OF SUBGRADE FOR THE MAINLINE, RAMP PAVEMENTS AND PAVED SHOULDERS IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 801.

PAVEMENT REMOVAL OUTSIDE NORMAL CONSTRUCTION LIMITS

AFTER THE EXISTING PAVEMENT AS INDICATED ON THE PLANS HAS BEEN REMOVED, THE OLD ROADWAY SHALL BE GRADED TO THE LEVEL OF THE SURROUNDING GROUND, THE OLD DITCHES FILLED AND THE DISTURBED AREAS SLOPED TO DRAIN AND LEFT IN A NEAT CONDITION READY FOR SEEDING. SEEDING SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH ITEM 659 SEEDING AND MULCHING. PAYMENT FOR ALL OTHER WORK REQUIRED SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203 OR 202.

DUST CONTROL

QUANTITIES FOR ITEM 616, WATER FOR DUST CONTROL AND ITEM 616 CALCIUM CHLORIDE FOR DUST CONTROL HAVE BEEN INCLUDED IN THESE PLANS FOR DUST CONTROL OF THE TOTAL PROJECT. THE USE OF THESE ITEMS SHALL BE AS DIRECTED BY THE ENGINEER.

ESTIMATED QUANTITIES (TO GENERAL SUMMARY):

	REST AREA	CLE. CO.	TOTAL
ITEM 616 WATER	35	453	488 M. GAL.
ITEM 616 CALCIUM CHLORIDE	2	15	17 TONS

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS SECTIONS ON THIS PLAN INDICATE SPECIFIC WIDTHS AND DEPTHS OF PROPOSED BENCHING OF THE EMBANKMENT FOUNDATION IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED AND ALL OTHER SLOPED FOUNDATION AREAS SHALL BE BENCHED AS SET FORTH IN 203.09. NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED BY THE PROVISIONS OF 203.09.

ITEM SPECIAL - CLEANING AND DISPOSING OF SEPTIC TANKS

THIS ITEM SHALL INCLUDE CLEANING, BACKFILLING AND REMOVING OF ALL OR ANY PORTION OF THE EXISTING SEPTIC TANKS.

ALL SEPTIC TANKS LYING WITHIN THE PROPOSED RIGHT-OF-WAY LIMITS SHALL BE EMPTIED AND CLEANED, MATERIAL REMOVED FROM THESE TANKS SHALL BE CLASSIFIED AS UNSUITABLE AND DISPOSED OF OUTSIDE THE RIGHT-OF-WAY OR EASEMENT LINES.

WHEN THE SEPTIC TANKS ARE LOCATED ABOVE THE FINISHED PAVEMENT OR GROUND LINES, THEY SHALL BE ENTIRELY REMOVED AND DISPOSED OF IN ACCORDANCE WITH 202.

WHEN THE TANKS ARE LOCATED BELOW THE FINISHED PAVEMENT OR GROUND LINES, THE TOPS OF THE TANKS SHALL BE REMOVED, AND THE WALLS SHALL BE REMOVED TO A DEPTH OF 1 FOOT BELOW THE FINISHED SUBGRADE OR GROUND LINES. THE REMOVED MATERIAL SHALL BE DISPOSED OF AS EXPLAINED ABOVE. THE TANKS SHALL BE BACKFILLED WITH SUITABLE SOIL OR GRANULAR MATERIAL IN ACCORDANCE WITH 203.

THIS ITEM SHALL BE PAID FOR AT THE UNIT PRICE BID FOR EACH "ITEM SPECIAL - CLEANING AND DISPOSING OF SEPTIC TANKS" WHICH PRICE AND PAYMENT SHALL CONSTITUTE FULL COMPENSATION FOR CLEANING, REMOVING AND DISPOSING OF EXCESS MATERIALS, BACKFILLING AND FOR ALL LABOR, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM INCLUDING INCIDENTAL EXCAVATION.

ITEM SPECIAL - CLEANING PRIVY VAULT

Privy vaults shall be emptied and cleaned as directed by the Engineer.

The material removed from these vaults shall be classified as unsuitable and disposed of outside the limits of right-of-way or easement lines. The privy vaults shall subsequently be backfilled with suitable soil or granular material in accordance with 203.

This item shall be paid for at the unit price bid per each for "Item Special - Cleaning Privy Vault," which price and payment shall constitute full compensation for cleaning, removing and disposing of the unsuitable material, backfilling and for all labor, tools, equipment and incidentals necessary to complete this item.

EMBANKMENT CONSTRUCTION - STATION 402 + 00 TO STATION 415 + 00

SPECIAL CARE SHALL BE GIVEN TO THE CONSTRUCTION OF EMBANKMENT WITHIN THE ABOVE STATION LIMITS. ALL SOIL PLACED IN EMBANKMENT WITHIN THESE LIMITS SHALL BE SPREAD IN LAYERS NOT GREATER THAN 6 INCHES LOOSE DEPTH AND SHALL BE COMPACTED TO NOT LESS THAN 102 PERCENT OF LABORATORY MAXIMUM DRY WEIGHT. EACH LIFT SHALL BE APPROVED BEFORE MATERIAL FOR THE NEXT LIFT IS BROUGHT IN.

ALL SHALE OR ROCK PLACED AS FILL IN THIS AREA SHALL BE SPREAD IN LAYERS NOT GREATER THAN 8 INCHES LOOSE DEPTH. ROCK WHICH CANNOT BE INCORPORATED IN AN 8 INCH LIFT SHALL EITHER BE REDUCED IN SIZE OR EXCLUDED FROM THIS PART OF THE EMBANKMENT. ALL SHALE LAYERS CONTAINING A MIXTURE OF SHALE AND ROCK SHALL BE SPRINKLED AS DIRECTED BY THE ENGINEER PRIOR TO OR DURING COMPACTION UNTIL THE MOISTURE CONTENT OF THE SHALE IS NOT LESS THAN OPTIMUM MINUS 3 PERCENT AND NOT MORE THAN OPTIMUM. EACH SHALE OR ROCK LAYER SHALL BE ROLLED WITH AT LEAST FOUR COMPLETE COVERAGES OF A FULLY BALLASTED TAMPING ROLLER AND AT LEAST TWO (2) COMPLETE COVERAGES OF A FULLY BALLASTED 50 TON PNEUMATIC TIRED ROLLER AS SPECIFIED IN SS-801. ALL OTHER PROVISIONS OF 203 OF THE GENERAL SPECIFICATIONS SHALL REMAIN IN EFFECT.

THE ENGINEER OF CONSTRUCTION, BUREAU OF CONSTRUCTION, CENTRAL OFFICE, SHALL BE NOTIFIED WHEN EMBANKMENT CONSTRUCTION IS STARTED IN THIS AREA.

IMMEDIATELY UPON COMPLETION OF THE FILL, THE CONTRACTOR SHALL SET HUBS SUITABLY PROTECTED AS DIRECTED BY THE ENGINEER TO PERMIT OBSERVATION OF FILL SETTLEMENT.

FORMULA USED FOR CORRECTING EARTHWORK AREAS FOR CURVATURE

EXCAVATION AND EMBANKMENT AREAS OF CROSS SECTIONS ON HORIZONTAL CURVES WHERE NOTED ON THE CROSS SECTIONS HAVE BEEN CORRECTED FOR CURVATURE USING THE FORMULA $C = Ae/R$ WHERE:

C = CORRECTION TO END AREA
A = THE AREA OF THE CROSS SECTION
E = THE ECCENTRICITY
R = THE CENTERLINE OF THE CURVE

THE AREA "A" IS THE AREA OF THE SECTION DETERMINED WITH A PLANIMETER. THE ECCENTRICITY IS THE DISTANCE BETWEEN THE CENTERLINE OR BASE LINE OF THE CROSS SECTION AND THE CENTER OF GRAVITY OF THE CROSS SECTION, AND IS A POSITIVE NUMBER WHEN THE CENTER OF GRAVITY FALLS OUTSIDE THE CENTERLINE, AND A NEGATIVE NUMBER WHEN THE CENTER OF GRAVITY FALLS INSIDE THE CENTERLINE. THE CORRECTION IS POSITIVE OR NEGATIVE DEPENDING UPON THE SIGN OF THE ECCENTRICITY.

THE CENTER OF GRAVITY OF THE CROSS SECTION IS DETERMINED BY TAKING ONE-HALF THE TOTAL AREA AND COMPUTING BY PLANIMETER OR SOME OTHER METHOD WHERE THIS ONE-HALF AREA OCCURS ON THE SECTION AND THE ECCENTRICITY IS FIGURED AS NOTED ABOVE.

AFTER APPLYING THE CORRECTION FACTOR TO THE ORIGINAL CROSS SECTION AREA THE VOLUME IS COMPUTED BY THE NORMAL END AREA METHOD USING THE TRUE CENTERLINE OR BASELINE DISTANCE BETWEEN SECTIONS. NOTE, THAT EXCAVATION AND EMBANKMENT AREAS ARE COMPUTED AND HANDLED SEPARATELY.

FOLLOWING IS THE METHOD USED TO COMPUTE THE RADIUS FOR AREAS IN THE SPIRAL PORTION OF THE CURVE:

WHEN THE AREA FALLS IN A SPIRAL CURVE, THE RADIUS MUST BE COMPUTED FOR EACH STATION AND PLUS USING THE FORMULA $r = RL/l$ WHERE:

r = RADIUS AT REQUIRED STATION ON THE SPIRAL
R = RADIUS OF MAIN CURVE
L = LENGTH OF SPIRAL
l = DISTANCE FROM T.S. TO REQUIRED STATION

LOCATIONS OF GUARD RAIL

LOCATIONS OF GUARDRAIL RUNS AS SHOWN IN THESE PLANS ARE SUBJECT TO ADJUSTMENT TO ASSURE THAT THE PLANNED INSTALLATIONS WILL AFFORD MAXIMUM PROTECTION FOR TRAFFIC.

ITEM 601 RIPRAP USING 6" REINFORCED CONCRETE SLAB

FOR DETAILS OF THE CUT-OFF WALL USED ON THE RIPRAP USING 6" REINFORCED CONCRETE SLAB - SEE STANDARD DRAWING MC-4.

ITEM 616 WATER FOR APPLICATION ON SEEDED DITCHES AS PER PLAN

THIS ITEM SHALL CONSIST OF WATER BEING APPLIED TO SEEDED AND MULCHED DITCHES, MEDIAN DITCHES, AND DITCHES CONTAINING JUTE-MATTING, LOCATED NOT MORE THAN 60 FEET FROM THE EDGE OF THE MAINLINE PAVEMENT. THE FIRST APPLICATION SHALL BE MADE WITHIN 72 HOURS AFTER A PORTION OF SEEDING AND MULCHING IS COMPLETED, PROVIDING THERE HAS BEEN NO RAINFALL DURING THE 72 HOUR PERIOD.

THE SECOND APPLICATION SHALL BE MADE NO SOONER THAN 7 DAYS OR NO LATER THAN 8 DAYS AFTER THE FIRST APPLICATION.

WHEN RAINFALL OCCURS WITHIN 7 DAYS AFTER THE FIRST APPLICATION THE ENGINEER MAY DELAY OR OMIT ENTIRELY THE SECOND APPLICATION, DEPENDING ON WEATHER CONDITIONS.

THE AREA OF APPLICATION SHALL BE THAT AREA EXTENDING OUTWARDLY 5 FEET ON EACH SIDE OF THE CENTERLINE OF THE DITCH.

THE RATE OF APPLICATION SHALL BE 120 GAL. PER 1,000 SQ. FT.

THE MAXIMUM NUMBER OF APPLICATIONS, IF REQUIRED, SHALL BE TWO.

THE WATER SHALL BE APPLIED BY MEANS OF A HYDRO-SEEDER OR A WATER TANK UNDER PRESSURE WITH A NOZZLE THAT WILL PRODUCE A SPRAY THAT WILL NOT DISLODGE THE STRAW.

THE QUANTITY OF WATER SHALL BE PAID FOR AT THE UNIT CONTRACT PRICE FOR ITEM 616 WATER FOR APPLICATION ON SEEDED DITCHES AS PER PLAN.
Estimated 108 MGals Carried to General Summary Sheet No. 25

DRAINAGE

CONNECTIONS TO EXISTING PIPE

Where the plans provide for proposed conduit to be connected to, or to cross either over or under existing sewer, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PIPE BOTH AS TO LINE AND GRADE BEFORE HE STARTS TO LAY THE PROPOSED *conduit. Payment for all operations described above shall be included in the unit price bid for the pertinent 603 conduit items.*

EROSION PROTECTION AT CULVERTS AND OTHER OUTLETS

EROSION PROTECTION, SUCH AS PAVED GUTTERS, ROCK CHANNEL PROTECTION, ETC., WHERE PROVIDED IN THE PLANS AT STRUCTURES AND OTHER CONDUIT OUTLETS SHALL BE PLACED IMMEDIATELY AFTER INSTALLATION OF THE STRUCTURES OR CONDUITS, AS DIRECTED BY THE ENGINEER.

ITEM 605 - AGGREGATE DRAINS

AGGREGATE DRAINS AS SHOWN ON THE TYPICAL SECTIONS SHALL BE PLACED AT FIFTY (50) FOOT INTERVALS ON EACH SIDE OF NORMAL CROWN SECTIONS AND AT TWENTY-FIVE (25) FOOT INTERVALS ON THE LOW SIDE ONLY OF SUPERELEVATED SECTIONS, EXCEPT WHERE ITEM 605 PIPE UNDERDRAINS HAVE BEEN PROVIDED.

AN AGGREGATE DRAIN SHALL BE PLACED AT THE LOW POINT OF EACH SAG VERTICAL CURVE.

SPRING DRAINS

REFERENCE IS MADE TO STANDARD DRAWING MC-1 SHOWING THE METHOD OF DRAINING ANY SPRINGS THAT MAY BE SHOWN ON THE PLANS OR ENCOUNTERED DURING CONSTRUCTION AS DETERMINED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THIS PURPOSE:

ITEM 605 - 6" *Unclassified Pipe Underdrain, 707.01 Type III or 707.12, as per plan*	400 L.F.
ITEM 605 - AGGREGATE DRAINS FOR SPRINGS, AS PER PLAN	12 L.F.

THE CONTRACTOR SHALL NOT ORDER MATERIALS FOR "SPRING DRAINS" UNTIL AUTHORIZED BY THE ENGINEER AND IN THE EVENT NO SPRINGS ARE ENCOUNTERED, THE ITEM SHALL BE NON-PERFORMED.

CALC. A.B. DATE 10/20/69

CHK'D J.R. DATE 10/20/69

GENERAL NOTES

FED. RD. DIVISION	STATE	PROJECT	
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CLERMONT COUNTY
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SANITARY FLOW INTO HIGHWAY DRAINAGE SYSTEMS

THIS PLAN MAKES NO PROVISION FOR CONNECTING, NOR SHALL THE ENGINEER OR CONTRACTOR CONNECT, ANY EXISTING OR NEW DRAINAGE INTO THE HIGHWAY DRAINAGE SYSTEM WHEN SUCH DRAINS CARRY FLOW FROM ANY PLUMBING FIXTURES INCLUDING FLOOR DRAINS AND SINK DRAINS OR DRAINS FROM LIVESTOCK LOTS OR BARNS OR POLLUTED WATER OF ANY KIND.

EXISTING PIPE CARRYING FLOW WHICH COMES WITHIN THE CATEGORY OUTLINED ABOVE SHALL BE PLUGGED WITH CLASS C CONCRETE AT THE RIGHT-OF-WAY LINE. PAYMENT FOR SAID PLUGGING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203 EXCAVATION.

TILE FOR SUBGRADE DRAINAGE

6" DRAIN TILE, 706.09 OR 706.07 SHALL BE FURNISHED AND PLACED BY THE CONTRACTOR IN MANHOLES, CATCH BASINS AND INLETS FOR SUB-GRADE DRAINAGE, WHERE, AND AS DIRECTED BY THE ENGINEER. PAYMENT FOR SAME SHALL BE INCLUDED IN THE *UNIT PRICE BID* FOR MANHOLES, CATCH BASINS AND INLETS.

ITEM 604, STANDARD NO. 6 CATCH BASIN MODIFIED AS PER PLAN

THE STANDARD NO. 6 CATCH BASIN SHALL BE DEPRESSED 3 INCHES IN LIEU OF THE 1 INCH PAVEMENT DEPRESSION SHOWN ON STANDARD CONSTRUCTION DRAWING CB - 6.

MAINTENANCE OF SEWER FLOWS

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO MAINTAIN AT ALL TIMES SEWER FLOWS THROUGH EXISTING FACILITIES TO REMAIN IN PLACE AND THROUGH EXISTING FACILITIES TO BE REPLACED UNTIL NEW FACILITIES ARE COMPLETED AND PLACED INTO USE.

PAYMENT FOR ANY ADDITIONAL COSTS INVOLVED IN MAINTAINING THESE FLOWS BY PUMPING OR BY ANY OTHER MEANS APPROVED BY THE ENGINEER SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE ITEMS OF 603 CONDUIT.

CHANNEL PROTECTION ITEMS

WIDTHS OF ITEMS 601, 660 AND 667 SHOWN ON THESE PLANS ARE SURFACE DIMENSIONS.

EROSION CONTROL

ITEMS 601, 660 AND 667 ARE PROVIDED IN THESE PLANS FOR EROSION CONTROL. ROCK OF A STABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE ANY OF THESE ITEMS. THE ENGINEER SHALL CHECK AND NONPERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES FOR THESE ITEMS WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION.

SOD COLLARS

WHEN SOD COLLARS ARE TO BE USED THERE SHALL BE A MINIMUM OF 4 INCHES OF SOIL BENEATH THE SOD, COST OF WHICH SHALL BE INCLUDED WITH THE PERTINENT DRAINAGE ITEM.

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EXCAVATION AND EMBANKMENT

Station to Station	Excavation Item 203 Cu Yds.	Embankment Item 203 Cu Yds.	Seeding & Mulching Item 659 Sq Yds.
349+90 - 360+00	37,390	48,128	16,020
360+00 - 375+00	91,710	115,775	46,474
375+00 - 390+00	183,488	3,128	25,796
390+00 - 405+00	300,453	155,224	43,643
405+00 - 420+00	66,235	1,081,825	71,462
420+00 - 435+00	201,585	11,076	39,997
435+00 - 450+00	104,483	9,411	34,634
450+00 - 465+00	144,964	10,511	41,310
465+00 - 480+00	271,201	31	37,127
480+00 - 495+00	86,985	40,264	42,581
495+00 - 510+00	345,905	41	38,575
510+00 - 525+00	117,546	16,824	40,835
525+00 - 540+00	115,603	1,231	40,646
540+00 - 555+11	51,216	153,500	36,703
555+11 - 570+00	1,101	410,831	39,257
570+00 - 582+50	1,953	175,469	34,507
Subtotal - Mainline	2,121,818	2,233,269	629,567
Rest Areas			
Ramp T	30,946	5,583	5,682
Right Rest Area	13,688	6,060	9,477
Ramp U	24,670	750	5,190
Ramp V	10,718	12,642	3,407
Left Rest Area	29,081	1,229	6,503
Ramp W	27,307	00	4,562
Subtotal - Rest Areas	136,410	26,264	34,821
32 Interchange			
Ramp F	27,760	4,207	17,134
Ramp G	23,212	10,820	24,081
Ramp H	30,211	1,430	11,417
Ramp I	14,884	4,246	15,367
Ramp J	4,779	96,044	10,787
Ramp K	723	127,009	22,462
Ramp L	11,820	106,353	19,380
Ramp M	1,576	83,702	18,137
S.R. 32			
54+60 - 65+00	5,721	482	11,877
65+00 - 80+00	27,746	14,957	30,840
80+00 - 95+00	14,113	8,439	34,658
95+00 - 110+30.81	5,951	368	9,884
Subtotal - Interchange	168,496	460,057	234,024
Approach Roads			
Reloc. Bargs Salt Run Rd	1,312	4,299	10,315
Cincinnati Batavia Pike	613	15,540	9,007
Rust Lane	1,839	3,000	5,444
Reloc. Aicholtz Rd	17,063	880	13,491
Subtotal - Approach Roads	20,827	23,719	38,257
Grand Total	2,447,551	2,743,309	936,669
Deduct Seeding & Jute Matting			11,472
Net Total	2,447,551	2,743,309	925,197

203 COMPACTED SUBGRADE

ITEMS	REST AREAS Sq. Yds.	CLE. CO. Sq. Yds.	TOTAL Sq. Yds.
Pavement (404) Asphalt Concrete	20,787	175,509	196,296
Paved Shoulder (409) Seal Coat	9,317	77,226	86,543
Approach Slab (611)		751	751
Sub-Total	30,104	253,486	283,590
Deduct Rock Areas	5,280	85,852	91,132
GRAND TOTAL	24,824	167,634	192,458

FERTILIZER & LIMING MATERIAL

	REST AREAS SY	CLE CO SQ YDS	TOTAL SQ YDS
Seeding Areas (Computed on Surface Area)	34,821	901,848	936,669
Sodding Areas	27	270	297
Special Sodding Areas		319	319
TOTAL	34,848	902,437	937,285
	TONS	TONS	TONS
Fertilizer @ 20 lbs. Per 1000 Sq. Ft.	3.14	81.22	84.36
Lime @ 100 lbs. per 1000 Sq. Ft.	15.68	406.09	421.77

604 REFERENCE MONUMENTS

COUNTY	TOTAL
Rest Area	8
Clermont	132
GRAND TOTAL	140

203 PROOF ROLLING

Rest Area = 24,824/3,000 x 1 Hour = 8 Hours
CLE. CO. = 167,634/3,000 x 1 Hour = 56 Hours

CALC. AB DATE 10/20/69

CHK'D. JK DATE 10/20/69

SUB-SUMMARY

GENERAL SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
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CLERMONT COUNTY
CLE. - 275 - 6.68

ITEM	SHEET NUMBER 13	17	18	21	22	24	32	36	40	43	46	49	51	53	56	60	61	64	65	516	67	69	73	76	80	84	88	92	93	95	591	495	ITEM		Y005	Y021	Y060	G203	GRAND TOTAL	UNIT	DESCRIPTION
																																									ROADWAY
201				Lump Sum																												201					Lump Sum	Lump Sum	Lump	Cleaning & Grubbing
202													Lump Sum	Lump Sum	Lump Sum																	202					Lump Sum	Lump Sum	Lump	Existing Structures Removed
202															50						20	40	60	50			202		72	85		202					579	579	Lin.Ft.	Pipe Removed, 24" and Under
202																							40								202					40	40	Lin.Ft.	Pipe Removed, Over 24"
202																							1706								202					1,706	1,706	Sq.Yd.	Existing Pavement Removed and Disposed of
202										111																	36				202					147	147	Sq.Ft.	Existing Sidewalk Removed and Disposed of
202																								1			2				202					3	3	Each	Catch Basin Removed or Abandoned
202																						1									202					1	1	Each	Catch Basin Removed or Abandoned, as per plan
SPL									1	1			1														1				SPL					4	4	Each	Cleaning of Privy Vault
SPL										2			4		3							1					2	2			SPL					14	14	Each	Cleaning & Disposing of Septic Tank
203						2,447,551																									203		1,311,141			2,447,551	Cu.Yd.	Excavation not including Embankment Construction, as per plan
203						2,743,309																									203		2,264			2,743,309	Cu.Yd.	Embankment
203						192,458																									203		24,824			192,458	Sq.Yd.	Subgrade Compaction
203						64																									203		8			64	Hour	Proof Rolling
410				553																											410					553	Cu.Yd.	Traffic Compacted Surface Type "A" or "B"
410				297																											410					297	Cu.Yd.	Traffic Compacted Surface Type "C"
603								100								30		30													603		160			160	Lin.Ft.	14" Steel Casing Pipe, Type B ASTM-A139 Grade B, 1/4" Wall Th., as per plan
625								100								30		30													625		160			160	Lin.Ft.	Conduit, 3" 713.04, Type II or III
604						140																									604		8			132	140	Each	Centerline Reference Monument
606											375																25	25	250			606					337.5	337.5	Lin.Ft.	Guard Rail, Type 4
606							1475	750	2825		1887.5		800	650	2537.5			2375				837.5	983.5	326.5		1202.5	1175			1825	606		237.5			17,035.1	17,272.6	Lin.Ft.	Guard Rail, Type 5
606											50		50	200									25	25							606					350	350	Lin.Ft.	Guard Rail, Type 5 Barrier Design
606	150																			42.15											606					436.5	436.5	Lin.Ft.	Temporary Beam Rail, as per plan
606								1	3		6		2			2		1			4		1	1			1	4		10	606		3			33	36	Each	Anchor Assembly
606								1	1		2		2	2		1		1				4	1	1		1				8	606		2			27	29	Each	Approach End Assembly Single Rail
606											2		2	2									1	1							606					8	8	Each	" " Approach End Assembly Barrier Rail
606														4							4	4								2	606					14	14	Each	Bridge Terminal Assembly
607																														46,518	607					46,518	46,518	Lin.Ft.	Fence, Type 47
607																														4050	607					4,050	4,050	Lin.Ft.	Fence, Type CL
608																	3823		3826												608		6849				6849	Sq.Ft.	4" Concrete Walks
615	Lump Sum																														615					Lump	Lump Sum	Lump Sum	Temporary Roads
615	3,157																														615					3,157	3,157	Sq.Yd.	Temporary Pavement, Class B
616				17	488																										616		35			470	505	M Gal.	Water
616				17	17																										616		2			32	34	Ton	Calcium Chloride
																																								EROSION CONTROL
601										36																					601		36				36	Lin.Ft.	Standard Type 3 Paved Gutter
601								75	9		87	58	47		74	54								55				12	20		601		491				491	Sq.Yd.	Riprap, Using 6" Reinforced Concrete Slab
601							1498	234	911	247	171	66	53		83	9	7		4				21				75	74	12	9	1419	601		4893				4,893	Cu.Yd.	Rock Channel Protection, Type B
616					108																										616		108				108	M Gal.	Water For Application on Seeded Ditches, As Per Plan
659						84.36																									659		84.36				84.36	Ton	Commercial Fertilizer (12-12-12)
659						421.77																									659		421.77				421.77	Ton	Agricultural Liming
659						925,197																									659		925,197				925,197	Sq.Yd.	Seeding & Mulching, as per plan
660							2	33	46	3	42	21	17		37	22	2	1	2		6	2	1	32			9	3	10	6		660		297				297	Sq.Yd.	Sodding
660																					38	118									660		156				156	Sq.Yd.	Sodding for Special Berm and Slope Protection, as per plan
667							897	161	306	611	564	380	1006	2368	375						251	1108	1336	441	486		208	774		220		667		11,492				11,492	Sq.Yd.	Seeding and Jute Matting
661								2370																							661		2370				2370	Ea.	Lonicera Japonica Halleana (Hall's Japanese Honeysuckle) 2 Yr. No. 1
																																								DRAINAGE
203									7445																						203					7445	7445	Cu.Yd.	Unclassified Excavation Including Rock
509									1378479																						509					1,378,479	1,378,479	Lbs.	Reinforcing Steel
511									4256																						511					4,256	4,256	Cu.Yd.	Class C Concrete
513									2709																						513					2,709	2709	Lbs.	Structural Steel
602							06	13	08	07	39	25	15		93	07	05	03	05		11	05	07	19			17	07	12	14		602		19			298	317	Cu.Yd.	Concrete Masonry
603								30	88	58		116	69			52		70						53	20						603		122			434	556	Lin.Ft.	6" Conduit, Type B
603							70	50	50	50	80	60	60	8	70	70		20					20	46	10	50	20	43			603		90			687	777	Lin.Ft.	6" Conduit, Type F
603																							34						50		603					84	84	Lin.Ft.	12" Conduit, Type B, 706.01 or 706.02

GENERAL SUMMARY

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| ITEM | SHEET NUMBER | | |

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GENERAL SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
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CLERMONT COUNTY
CLE. - 275 - 6.68

ITEM	SHEET NUMBER	ITEM		Y005	Y021	Y060	6203	GRAND TOTAL	UNIT	PARCEL NO.	DESCRIPTION
	13 17 18 21 22 24 32 36 40 43 46 49 51 53 56 60 61 64 65 67 69 73 76 80 84 88 92 93 95 591										
											EXISTING BUILDINGS REMOVED
		202					Lump Sum	Lump Sum	Lump Sum	239-WL	Removal of one 2-story frame residence, one 1-story frame garage, one 1-story frame shed, privy, two corrugated metal robbit hutches.
		202					Lump Sum	Lump Sum	Lump Sum	240-WL	Removal of 2 frame sheds, frame privy.
		202					Lump Sum	Lump Sum	Lump Sum	258-WL	Removal of one 1-story shingle commercial building, 2-story frame residence, 1½-story frame barn, 1-story frame chicken house, 1-story frame shed, frame privy.
		202					Lump Sum	Lump Sum	Lump Sum	259-WL	Removal of one 2½-story frame and concrete block barn, 2½-story frame residence, 1½-story frame barn, four frame animal shelters, 1-story frame shed.
		202					Lump Sum	Lump Sum	Lump Sum	266-WL-T	Removal of 1-story frame residence, playhouse.
		202					Lump Sum	Lump Sum	Lump Sum	272-WL	Removal of 1½-story brick residence, 2-car brick garage.
		202					Lump Sum	Lump Sum	Lump Sum	274-WL	Removal of one privy.
		202					Lump Sum	Lump Sum	Lump Sum	276-WL	Removal of one 1-story brick residence with attached garage.
		202					Lump Sum	Lump Sum	Lump Sum	295-T	Removal of one frame garage.
		202					Lump Sum	Lump Sum	Lump Sum	296-T	Removal of one concrete block shed.
											For Lighting Quantities See Sheet No. 518
											For Traffic Control Quantities See Sheet No. 486A
											STRUCTURES OVER 20' SPAN
		See Sheet No. 556 For Estimated Quantities									Bridge No. CLE-275-0836 Under Twp. Rd. No. 211 (Bargs Salt Run Rd.).
		See Sheet No. 565 For Estimated Quantities									Bridge No. CLE-275-1008, Under Co. Rd. No. 171 (Cinti.-Batavia Pike).
		See Sheet No. 575 For Estimated Quantities									Bridge No. 275-1048, Lt. & At. over S.R. 32
				Lump Sum	Lump Sum	Lump Sum	Lump Sum	Lump Sum	Lump Sum		Construction Layout Stakes
		619		Lump Sum	Lump Sum	Lump Sum	Lump Sum	Lump Sum	Lump Sum		Field Office
		614		Lump	Lump	Lump	Lump Sum	Lump Sum	Lump Sum		Maintaining Traffic

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PAVING LEGEND

Item 404 1½" Asphalt Concrete (70-85).
Item 402 1¾" Asphalt Concrete (70-85).
Item 301 8" Bituminous Aggregate Base: 702.01 (85-100) or 702.09, RT-11 or RT-12 [Place in two 4" Courses].
Item 310 Subbase (See Typical Section for Thickness).

Item 409 Seal Coat Bituminous Material applied at the rate of 0.30 Gal. per Sq. Yd. and No. 8 Aggregate applied at the rate of 0.008 Cu. Yd. per Sq. Yd.
Item 301 3" Bituminous Aggregate Base: 702.01 (85-100) or 702.09, RT-11 or RT-12.
Item 304 6" Aggregate Base.
Item 310 Subbase (See Typical Section for Thickness).

Item 409 Seal Coat Bituminous Material applied at the rate of 0.30 Gal. per Sq. Yd. and No. 8 Aggregate Material applied at the rate of 0.008 Cu. Yd. per Sq. Yd.
Item 301 3" Bituminous Aggregate Base: 702.01 (85-100) or 702.09, RT-11 or RT-12.
Item 304 6" Aggregate Base.
Item 310 Subbase (See Typical Section for Thickness).

Item 404 1¼ Asphalt Concrete (85-100).
Item 402 1¾ Asphalt Concrete (85-100).
Item 408 Bituminous Prime Coat 702.09 RT-2 or RT-3 (Shall be applied at the rate of 0.40 Gal. per Sq. Yd.).
Item 304 12" Aggregate Base.

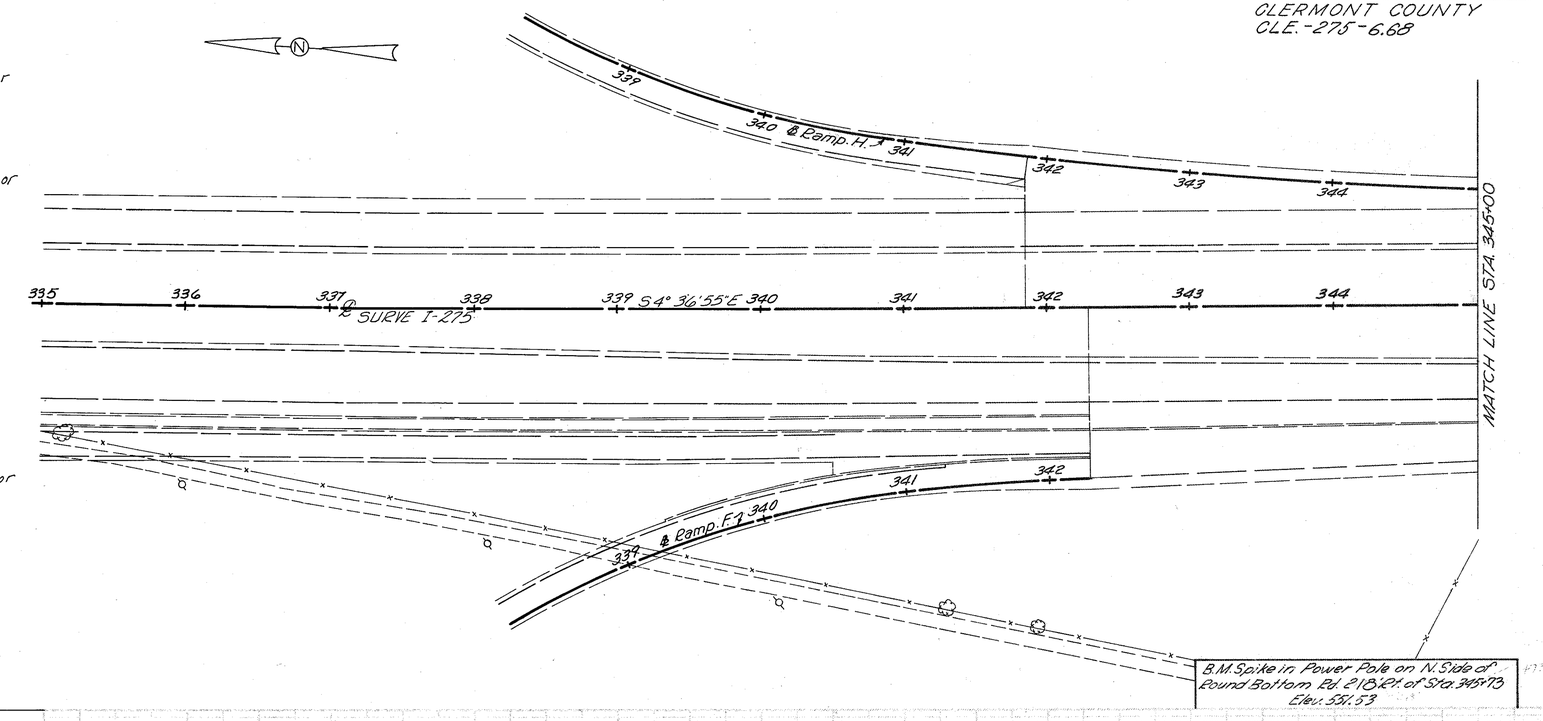
Item 404 1¼ Asphalt Concrete (70-85)
Item 402 1¾ Asphalt Concrete (70-85).
Item 301 6" Bituminous Aggregate Base: 702.01 (85-100) or 702.09, RT-11 or RT-12 [Place in two 3" Courses].
Item 310 5" Subbase.

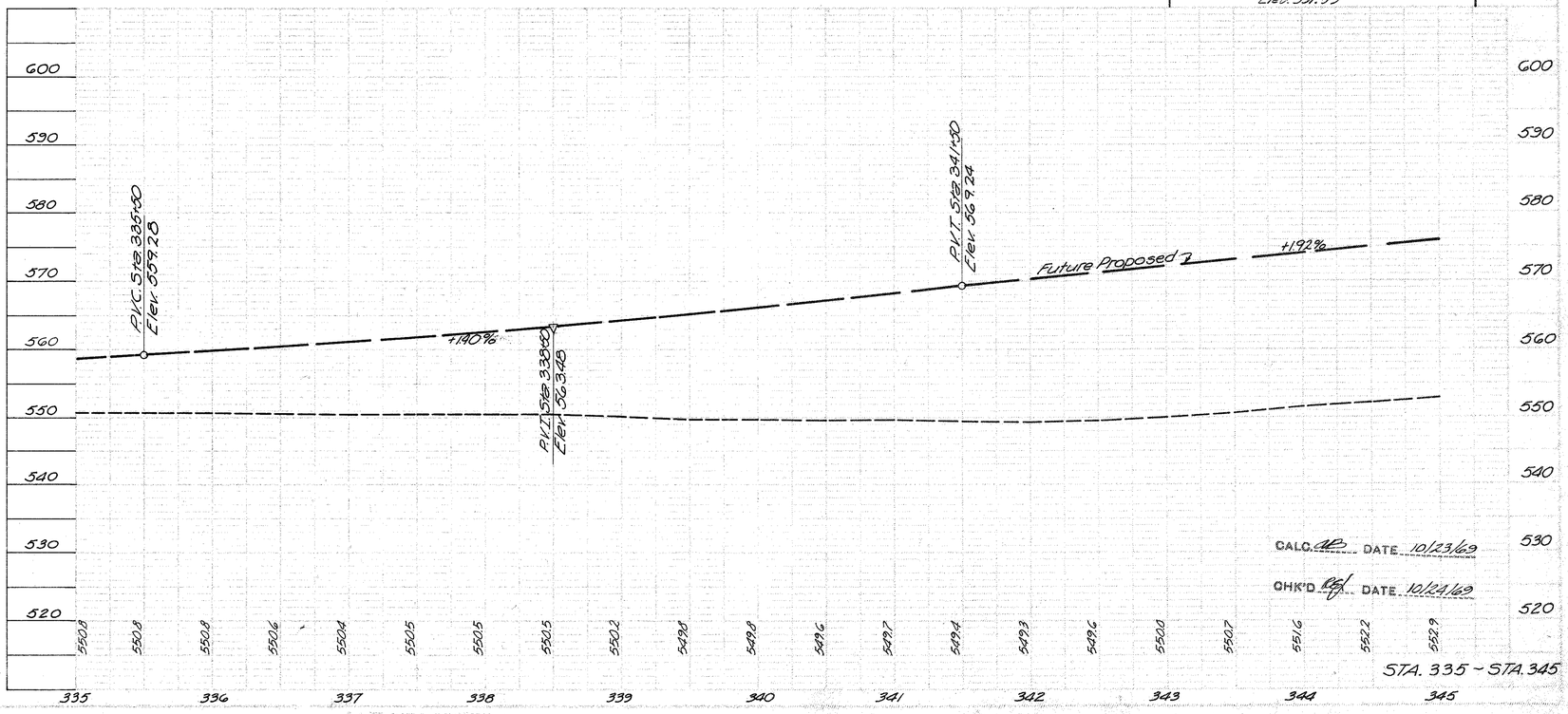
Item 404 2" Asphalt Concrete (85-100). (Place in Two 1" Courses)
Item 408 Bituminous Prime Coat 702.09 RT-2 or RT-3 (Shall be applied at the rate of 0.40 Gal. per Sq. Yd.).
Item 304 5" Aggregate Base.

Item 304 8" Aggregate Base.

Item 451 9" Reinforced Portland Cement Concrete Pavement.
Item 310 6" Subbase.

Pavement Removal.





UTILITY OWNERS

TYPE	NAME	ADDRESS
Telephone	Cincinnati & Suburban Bell Telephone Co.	225 E. Fourth Street Cincinnati, Ohio
Gas & Electric	Cincinnati Gas & Electric Co.	Fourth & Main Streets Cincinnati, Ohio
Telephone	American Telephone & Telegraph Co.	1014 Vine Street Cincinnati, Ohio
Water	Pierce-Union-Batavia Water System	3685 Lewis Road Amelia 2, Ohio
Sanitary Sewer	Clermont County	3685 Lewis Road Amelia 2, Ohio
Traffic Control	State of Ohio	State of Ohio Middletown, Ohio
Transmission	Cincinnati Gas & Electric Co.	Fourth & Main Streets Cincinnati, Ohio

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HUBS NOT REFERENCED
Sta. 356+12.29
Sta. 359+59.74

REFERENCE P.O.T. STA. 352+90.57
4" Elm, 8.7', 9" Elm, 352, 353, 10", 4" Elm, 6" Plum

2 Sty. Brick
2 Sty. Frame #814
Steel tower T.V. Antenna 6'-8"x23'
2 Barbed Wire
Gravel
Wood Rail
Woven & 2 Strands ? Barbed Wire
667 Jute Matting 11'-0" Wide
LARIM
Wooded Area
667 Jute Matting 11'-0" Wide
LARIM
Sta. 349+90 Begin Work
Ramp H
346
MATCH LINE STA. 345+00
MATCH LINE STA. 360+00
6" Underdrain
1-D
6-D
7-D
Sta. 347+15.18
Future Proposed Construction
346 347 348 349 350 351 352 353 354 355 356 357 358 359
Sta. 350+28.91
90°
Sta 360+00 See Sht. No 12A
S 4°36'55"E
SURVEY CLE. 275
Woven Wire
Post
3-D
18" Conduit
48:1 Taper
Norfolk & Western Railroad
Ca. Rd. No. 106 (Round Bottom Road)
4-D
N
1-R
2-D
9-D
60', R.C.P. Type B 38'x8'x2'=26 Cu. Yds.
SL.M. 668
LARIM
CLE.-275-5.61
STA 353+00 BEGIN PROJECT
60', R.C.P. Type B 68'x14'x2'0"=71 Cu. Yds.
Woven Wire
Iron Pipe
60', R.C.P. Type B 200'x14'x2'0"=207 Cu. Yds.
Iron Bar
Begin 120' Wide
60', R.C.P. Type B 80'x8'x2'=47 Cu. Yds.
I-275-2(19) 31
I-275-2(17)32
60', R.C.P. Type B 12'x6'x2'0"=5 Cu. Yds.
Gravel
1 Sty. Fr.
LARIM
For Taper Elevations and Offsets See Sheet No. 12
For Quantities, See Sht. No. 32

B.M. in N.W. Corner of Conc. Well Platform 225' Lt. of Sta. 351+00 Elev. 569.50

Note: For Typical Section of Adjoining Pavement See Sheet No. 4 Same as Mainline

B.M. Top of Most Eastwardly Anchor Bolt for N.E. Leg of T.V. Antenna 143' Lt. Sta. 354+65 Elev. 605.98

Sta 353+00 Vertical Equation
600' V.C.
P.V.C. Sta 351+25 Elev. 591.99
P.V.I. Sta 353+00 Elev. 591.41
P.V.I. Sta 356+25 Elev. 597.75
P.V.I. Sta 360+00 Elev. 606.75
+1.92% Future Proposed Grade
+1.92%
+3.00%
Sta 353+00 68' Lt. F.L. 6" Underdrain Elev. 588.41
Sta 351+78
℄ Ditch
Sta 351+98.89 72' Rt. Begin F.L. 6" Underdrain Elev. 584.37
Sta 352+00 68' Lt. Begin F.L. 6" Underdrain Elev. 585.03
6" Unclassified Underdrain
Sta 352+50 68' Lt. F.L. 6" Underdrain Elev. 585.99
Sta 353+50 86.31' Rt. F.L. 6" Underdrain Elev. 587.63
Sta 353+50 68' Lt. F.L. 6" Underdrain Elev. 589.38
6" Unclassified Underdrain
Sta 355+25 68' Lt. F.L. 6" Underdrain Elev. 593.09
Sta 356+25 68' Lt. F.L. 6" Underdrain Elev. 594.00
Sta 360+00 68' Lt. F.L. 6" Underdrain Elev. 604.44
Sta 360+00, 72.77' Rt. F.L. 6" Underdrain Elev. 604.37
Sta 360+00 ℄ 60A Std. No. 4 C.B. ℄ Grate = 604.50 Inv. 15" = 601.58
℄ Norfolk & Western Railroad
℄ Co. Rd. No. 106 (Round Bottom Rd.)

203 Excavation	37,390 Cu. Yds.
203 Embankment	48,128 Cu. Yds.
659 Seeding & Mulching	16.020 Sq. Yds.

CALC. A.F.B. DATE 10-23-69
CHK'D R.E.J. DATE 10-24-69

STA 345 - STA 360

HUBS NOT REFERENCED
Sta. 365+37.81

REFERENCE P.O.T. STA. 373+86.96
9" Ash 17.75' 10.19' Wood Post
20" Maple 17.80' Wood Post

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CLERMONT COUNTY
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MATCH LINE STA. 360+00

MATCH LINE STA. 375+00

Begin Taper Sta. 362+75.00

Temporary Easement

96' See Detail Sht. No. 16

Sta. 362+30 Rt. Lt. Spring Drain

601 D.R.C.P. Type B 25'×25'×2'-0" = 46 Cu. Yds.

667 Jute Matting 11'-0" Wide

Nose Sta. 374+75.00 "V"

Sta. 374+77.79, 75' Lt. See Sht. No. 46A

6" Underdrain

Sta. 360+00 See Sht. No. 12A

Sta. 362+30 See Sht. No. 12B

Sta. 362+28.91

90°

6" Conduit

603, 10"×6" Conduit Type F

6" Underdrain

End Taper Sta. 365+28.63

Begin Taper Sta. 364+28.63

601 R.C.P. Type B 105'×14'×2'-0" = 1070 Cu. Yds.

601 R.C.P. Type B 5'×14'×2'-0" = 5 Cu. Yds.

LA R/W

Sta. 367+75

S 4° 36' 55" E

SURVEY CLE. -275

Sta. 372+29.73

Sta. 373+28.73

Sta. 374+50 See Sht. No. 46A

Sta. 374+75.00

RAMP "T" 370

Sta. 372+32.52, 72.10 Rt. See Sht. No. 46A 173°12'14"

Sta. 373+28.80 Rt. See Sht. No. 46A

Sta. 374+17.95 Rt. See Sht. No. 46A

90° Tan. to curve

601 R.C.P. Type B 20'×6'-2'-0" = 9 Cu. Yds.

603, 10"×6" Conduit Type F

Nose Sta. 372+28.07

P.T. Sta. 373+28.07

601 R.C.P. Type B 10'×10'×2'-0" = 4 Cu. Yds.

601 R.C.P. Type B 8'×4'×2'-0" = 2 Cu. Yds.

601 R.C.P. Type B 8'×4'×2'-0" = 2 Cu. Yds.

For Continuation of "Ramp T" See Sheet No. 58

B.M. Spike in Power Pole "D" 36541, 125' Lt. Sta 361+00 Elev. 614.28

For Taper Elevations & Offsets See Sheet No. 12

B.M. Spike in Root of 24" Wild Cherry 60' Rt. Sta. 367+50 Elev. 624.44

For Quantities See Sheet No. 60
For Quantities See Sheet No. 32

203	Excavation	91,710 Cu. Yds.
203	Embankment	115,775 Cu. Yds.
659	Seeding & Mulching	96,972 Sq. Yds.

Sta. 360+00 & 604, Std. No. 4 C.B. F.I. Grate = 604.50 Inv. 15" 601.58

Sta. 360+00 68' Lt. F.L. 6" Underdrain Elev. 604.44

Sta. 360+00 72.77' Rt. F.L. 6" Underdrain Elev. 604.37

Sta. 362+75 68' Lt. & Rt. F.L. 6" Underdrain Elev. 612.69

+3.00%

Sta. 362+28.91 68' Rt. F.L. 6" Underdrain Elev. 610.34

605, 6" Conduit Spring Drain Inv. 598.32

605 Underdrain Lt. & Rt.

Sta. 364+29.63 68' Rt. F.L. 6" Underdrain Elev. 617.33

Sta. 365+29.63 80' Rt. F.L. 6" Underdrain Elev. 620.12

Sta. 367+50 77.90' Lt. F.L. 6" Underdrain Elev. 626.93

Sta. 367+75 80' Rt. F.L. 6" Underdrain Elev. 627.48 For Continuation of Ramp "T" See Sht. No. 58

Sta. 367+50 80' Rt. F.L. 6" Underdrain Elev. 626.73

P.V.C. Sta. 367+50 Elev. 631.50

1500 V.C.

605 Underdrain Lt. Side

Sta. 370+00 83.10' Lt. F.L. 6" Underdrain Elev. 633.78

Sta. 371+00 85.19' Lt. F.L. 6" Underdrain Elev. 637.68

6" Unclassified Underdrain

Sta. 372+29.73 68' Rt. F.L. 6" Underdrain Elev. 641.50

Sta. 373+00 86' Rt. Inv. 6" Underdrain Outlet Elev. 640.50

Sta. 373+10 68' Rt. F.L. 6" Underdrain Elev. 641.00

Sta. 374+50 92.48' Lt. F.L. 6" Underdrain Elev. 645.62

Sta. 374+75 93' Lt. F.L. 6" Underdrain Elev. 646.28 For Continuation of Ramp "V" See Sht. No. 62

+3.00%

P.V.C. Sta. 375+00 Elev. 654.00

6" Unclassified Underdrain

Sta. 374+00 68' Rt. F.L. 6" Underdrain Elev. 644.95

Sta. 374+77.79 75.17' Lt. Inv. 6" Underdrain Outlet Elev. 646.90

Sta. 374+82 68' Lt. F.L. 6" Underdrain Elev. 646.66

Sta. 375+00 68' Lt. & Rt. F.L. 6" Underdrain Elev. 647.02

Sta. 374+50 & 604, Std. No. 5 C.B. F.L. Grate = 644.73 Inv. 15" = 642.03 Inv. 18" = 641.78

CALC. DE DATE 6/26/67

CHK'D REA DATE 6/29/67

STA 360 - STA 375

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CLERMONT COUNTY
CLE.-275-6.68

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ESTIMATED QUANTITIES

DRAINAGE

REF. NO.	STATION TO STATION	SIDE	601 Rock Channel Protection Type B Cu. Yds.	602 Concrete Masonry Cu. Yds.	603 6" Conduit Type F Lin. Ft.	603 15" Conduit Type B Lin. Ft.	603 18" Conduit Type B Lin. Ft.	603 18" Conduit Type F Lin. Ft.	605 6" Underdrain Shallow Lin. Ft.	605 6" Underdrain 707.01 Type III or 707.12 Lin. Ft.	605 6" Unclassified Underdrain 1001.01 Type III or 707.12 Lin. Ft.	Aggregate Drains for Springs as per Plan Lin. Ft.	604 Standard No. 4 Catch Basin Each	604 Standard No. 5 Catch Basin Each	660 Sodding Sq. Yds.	667 Jute Matting Sq. Yds.	6"x6"x6" Wye Each	6"x6"x90° Bend Each	18"x25° Bend Each	SEE SHEET NO.
	349+50 3G0+00																			
1-D	352+00 - 3G0+00	Lt.			10				415	225	150									
2-D	351+98 - 3G0+00	Rt.			20				782											
3-D	3G0+00	Rt.	4	0.30			88	40					1		1	125			2	124
4-D	349+90 - 350+50	Rt.	47																	
5-D	351+50 - 351+83	Rt.	26																	
6-D	351+78 - 352+50	Lt.														99				
7-D	354+75 - 358+00	Lt.														398				
8-D	355+36 - 356+03	Rt.	71																	
9-D	358+00 - 3G0+00	Rt.	207																	
10-D	Not Used																			
11-D	Not Used																			
	3G0+00 - 375+00																			
12-D	3G0+00 - 374+75	Lt.							1000	375	100									
13-D	3G0+00 - 3G7+75	Rt.			10				775											
14-D	374+77.79 - 375+00	Lt.			10					22										
15-D	372+29.73 - 375+00	Rt.			20					100	170									
16-D	374+17 - 374+77.79	Lt. & Rt.				80	100						1				1	1		468
17-D	373+92.50 - 374+17	Rt.	2	0.30			68							1	1					464
18-D	368+00 - 368+25	Lt.	46																	
19-D	368+25 - 370+50	Lt.														275				
20-D	3G0+00 - 3G0+05	Rt.	5																	
21-D	3G0+50 - 371+10	Rt.	109.0																	
22-D	3G2+30	Lt. & Rt.									198	3								129
TOTAL			149.8	0.60	70	80	256	40	2972	722	618	3	2	1	2	897				

CALC. DE DATE 6/26/62
CHK'D AB DATE 4/28/63

ROADWAY & PAVEMENT

REF. NO.	STATION TO STATION	SIDE	606 Std. Type 5 Guard Rail Lin. Ft.	301 8" Bit. Aggregate Base Cu. Yds.	301 3" Bit. Aggregate Base Cu. Yds.	304 Aggregate Base Cu. Yds.	310 Subbase Cu. Yds.	402 Asphalt Concrete Cu. Yds.	404 Asphalt Concrete Cu. Yds.	409 Seal Coat Bituminous Gals.	409 Seal Coat Cover Aggregate Cu. Yds.	SEE SHEET NO.
	ROADWAY											
	349+50 - 3G0+00											
1-R	353+00 - 3G0+00		700									
2-R	Not Used											
	3G0+00 - 375+00											
3-R	3G0+00 - 3G7+75		775									
	PAVEMENT											
	353+00 - 3G0+00			109.0	16.9	30.1	121.3	27.8	16.3	60.9	1.7	
	3G0+00 - 375+00			189.3	18.9	33.7	189.4	39.2	28.0	68.0	1.9	
TOTAL			1,475	298.3	35.8	63.8	310.7	67.0	44.3	128.9	3.6	
				334.1								

QUANTITIES
STA. 349+90 - STA. 375+00

HUBS NOT REFERENCED
Sta. 380+05.00

REFERENCE P.O.C. STA 385+19.93
Thorn Trees
385 42.32' 44.00' 6" Cedor ℄ 386
29.97' 3" Cedor

FED. HWY. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE. - 275 - 6.68

MATCH LINE STA. 375+00

MATCH LINE STA. 390+00

LA R/W

P.C. Sta. 377+75.00 "V"

Sta. 379+25.00 "V"

For Curve Data Ramp V
See Sht. No. 62

V-1

End Curb Sta. 382+00

P.T. Sta. 382+36.53 "V"

For Continuation of Ramp "V"
See Sht. No. 62

For Back Slope
see Ramp "V"

For Continuation
of 30" Conduit see
Sheet No. 62

Sta. 383+10.21 Rt. Ramp "V"
See Sheet No. 464

1-R

1-D

2-D

2-R

3-D

4-D

5-D

6-D

RAMP "V"

376 377 378 379 380 381 382 383 384 385 386 387 388 389 390

℄ SURVEY CLE. - 275

S 4° 36' 55" E

12" 12" 12" 15"

Sta. 375+50 76.16' Lt.
See Sheet No. 464

Sta. 376+30, 77.59' Lt.
See Sheet No. 464

Sta. 380+50 23.5' Rt. Ramp "V"
See Sheet No. 464

Sta. 383+50 95' Lt.
See Sheet No. 464

Sta. 388+56
See Sht. No. 442

Sta. 389+00 &
See Sheet No. 33

30" Conduit

15" Conduit

50' Rt.

Tee 30"x15"

21"

Sta. 389+30.15, 79' Rt.
See Sheet No. 442

For Ramp "T"
see Sheet No. 58

For Back Slope
see Ramps "T" & "U"

For Quantities See
Sheet No. 36

For Ramp "U"
see Sheet No. 59

For Continuation of
30" Conduit, See Sht. No. 59

B.M. Spike in 10" Elm
190' Lt. of Sta. 381+25
Elev. 675.53

B.M. Spike in Root of 15" Wild
Cherry 290' Lt. of Sta. 388+50
Elev. 685.40

650.25 650.75 651.23 651.71 652.18 652.65 653.10 653.55 653.98 654.41 654.83 655.25 655.65 656.05 656.43 656.81 657.18 657.55 657.90 658.25 658.58 658.91 659.23 659.55 659.85 660.15 660.43 660.71 660.98 661.25 661.50 662.00 662.50 663.00 663.50 664.00 664.50 665.00 665.50 666.00 666.50 667.00 667.50 668.00 668.50 669.00

CALC. DE DATE 6/26/67

CHK'D REA DATE 6/29/67

690 680 670 660 650 640

Sta. 383+61 68' Lt.
End 6" Underdrain F.L. Elev. 659.38

Sta. 383+65 68' Lt.
F.L. 6" Underdrain Elev. 659.92

No Rock Lt. Side Only

No Rock Lt. Side Only

Sta. 389+57 68' Rt.
F.L. 6" Underdrain Elev. 665.34

Sta. 389+53 68' Rt.
F.L. 6" Underdrain Elev. 665.30

Sta. 389+00 &
604 C.B. No. 4
F.L. Grate 663.50
Inv. 15" 659.81

P.V.I. Sta. 375+00
Elev. 654.00

+1.00 %

+1.00 %

30" Conduit

Elev. 657.91
Tee 30"x15"

603, 28"x15" Conduit Type C 706.01 E.S.
706.02 or 706.08 E.S. with Cl. B Bedding @ 90°

Sta. 382+50 68' Lt. & Rt.
F.L. 6" Underdrain Elev. 658.27

Sta. 383+50 95' Lt.
Outlet 6" Underdrain
F.L. Elev. 658.00

Sta. 386+00 68' Lt. & Rt.
F.L. 6" Underdrain Elev. 661.77

Sta. 389+50 79' Rt.
Inv. 6" Underdrain Outlet Elev. 664.05

Sta. 390+00 68' Lt. & Rt.
F.L. 6" Underdrain Elev. 665.77

Sta. 375+00 68' Lt. & Rt.
F.L. 6" Underdrain Elev. 647.02

P.V.I. Sta. 382+50
Elev. 661.50

1500' V.C.

203 Excavation	183,488 Cu. Yds.
203 Embankment	3,128 Cu. Yds.
659 Seeding & Mulching	25,796 Sq. Yds.

671.1 672.8 674.6 674.4 673.8 672.5 674.7 676.2 676.4 676.2 676.4 676.2 677.0 677.9 678.4 678.3 677.5 676.5 675.2 675.7 675.0 674.3 674.7 670.2 672.4 671.4 670.0 670.7 672.2 674.5 681.4 683.2 682.2 684.3 684.2 680.6 682.3 680.9 677.2 679.2 677.4 670.7 664.4 661.2 661.6 664.3 666.7 668.4 668.3 671.0 684.9 680.2

+.40 +.66 +.32 +.47 +.62 +.84 +.07 +.38 +.42 +.67 +.30 +.44 +.62 +.78 +.88 +.11 +.46 +.62 +.78 +.15 +.22 +.30 +.65 +.81 +.38 +.57

375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390

STA. 375 - STA. 390

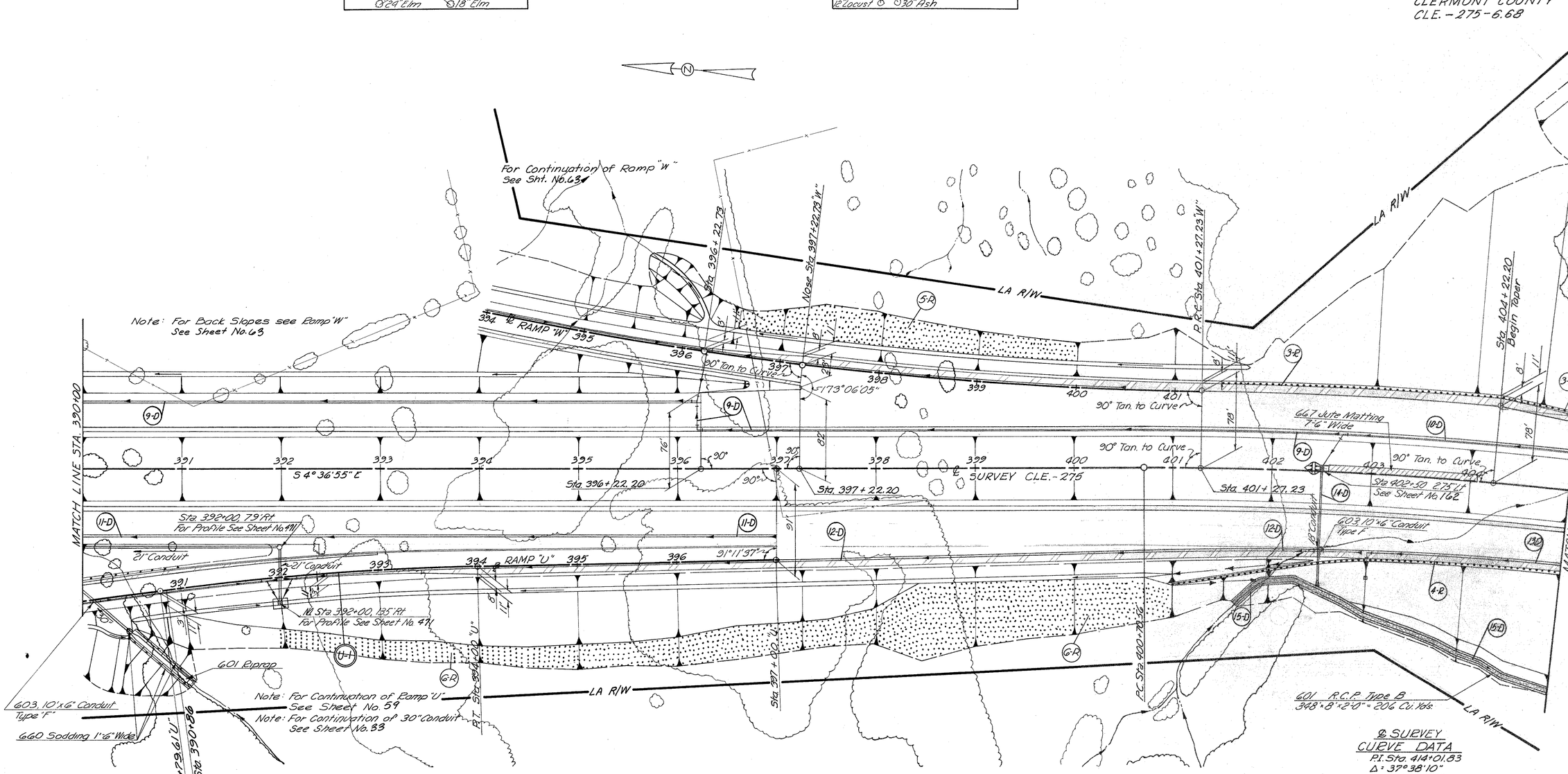
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE. - 275 - 6.68

REFERENCE P.O.T. STA. 393+71.26
393 — 11.90' — 10" Locust — 50.80' — 24" Elm — 394 — 15.25' — 18" Elm — ℄

REFERENCE P.O.T. STA. 398+46.20
6" Locust — 4.05' — 20.0' — 24" Pear — 3.79 — 31°43'30" — 399 ℄ — 33.30' — 12" Locust — 23.49' — 30" Ash



For Curve Data Ramp "U" See Sheet No. 59

NOTES:
For Profile see Sheet No. 35
For Quantities see Sheet No. 36
For Superelevation Table see Sheet No. 11

℄ SURVEY
CURVE DATA
P.I. Sta. 414+01.83
Δ: 37°38'10"
D: 1°28'00"
R: 3906.53'
L: 2566.10'
T: 1331.27'
E: 220.60'
SE: 0.061 ft/ft.

B.M. Spike in Root of 24" Double Pear Tree 150' Lt. of Sta. 400+70
Elev. 688.45

CALC. DE DATE 6/27/67
CHK'D. REA DATE 6/29/67

STA. 390 - STA. 405

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
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669.00 669.50 670.00 670.50 671.00 671.50 672.00 672.50 673.00 673.50 674.00 674.50 675.00 675.50 676.00 676.50 677.00 677.50 678.00 678.50 679.00 679.50 680.00 680.50 681.00 681.50 682.00 682.50 683.00 683+50 684.00

710 700 690 680 670 660 650 640 630 620 610 600 590

Sta 390+00 68' Lt & Rt
IE 6" Underdrain Elev 665.77

Sta 394+50 68' Lt & Rt
IE 6" Underdrain Elev 670.27

Sta 396+20 38.75' Lt
IE 6" Underdrain Elev 672.08
+1.00%

Sta 396+20 68' Lt.
IE 6" Underdrain Elev 671.10
For Connection From Ramp W
See Sheet No. 63

Sta 397+00 68' Rt
IE 6" Underdrain Elev 672.77
For Continuation of Ramp "U"
See Sheet No. 59

Sta 397+00 93' Rt
IE 6" Underdrain Elev 672.53

Sta 398+75 38.75' Lt
IE 6" Underdrain Elev 674.63

Sta 398+75
Rock
Underdrain

Sta 398+75 91.44' Rt
IE 6" Underdrain Elev 673.77

Sta 401+00 84.67' Rt
IE 6" Underdrain Elev 674.74

Sta 402+50 2.75' Lt
604 Std. No. 4 C.B.
IE Grate = 677.15
Inv. 18" = 674.03
Inv. 6" = 675.50

Sta 402+96 80.9' Rt
IE 6" Underdrain Elev 676.00

Sta 402+66 38.75' Lt
IE 6" Underdrain Elev 677.04

Sta 402+70 38.75' Lt
IE 6" Underdrain Elev 677.08

Sta 405+00 38.75' Lt
IE 6" Underdrain Elev 679.38

Sta 405+00 76.33' Rt
IE 6" Underdrain Elev 677.47

Sta 403+00 80.5' Rt
IE 6" Underdrain Elev 675.23

Sta 403+00 105' Rt
Outlet 6" Underdrain Elev 674.00

203 Excavation	300,453 Cu. Yds.
203 Embankment	155,224 Cu. Yds.
659 Seeding & Mulching	43,643 Sq. Yds.

680.2 687.5 694.9 700.3 703.1 704.2 706.6 707.1 707.0 707.8 707.3 705.9 704.0 703.2 701.7 700.5 701.5 701.4 700.4 698.7 697.9 697.4 696.9 695.3 695.5 693.7 692.8 692.1 692.2 692.2 691.8 688.8 683.5 671.1 655.4 640.7 627.8 611.2 604.7 595.1 595.2

.40 .60 .12 .23 .60 .43 .70 .40 .71 .35

390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405

STA. 390 - STA. 405

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68

ESTIMATED QUANTITIES

DRAINAGE

REF. NO.	STATION TO STATION	SIDE	601 Rock Channel Protection Type B Cu.Yds.	601 Concrete Riprap Sq.Yds.	602 Concrete Masonry Cu.Yds.	603 6" Conduit Type B Lin.Ft.	603 6" Conduit Type F Lin.Ft.	603 15" Conduit Type C 706.01 E3 or 706.02 or 706.08 ES Lin.Ft.	603 18" Conduit Type B Lin.Ft.	603 30" Conduit Type B Lin.Ft.	603 30" Conduit Type B 706.02 Cl. V Lin.Ft.	604 Std. No. 1 Manhole Each	604 Std. No. 4 Catch Basin Each	605 6" Underdrain Shallow Lin.Ft.	605 6" Underdrain 707.01 Type III or 707.12 Lin.Ft.	660 Sodding Sq.Yds.	667 Jute Matting Sq.Yds.	6"x6"x6" Tee	6"x6"x60° Bend	6"x6"x90° Bend	30"x15" Tee	SEE SHEET NO.
	375+00 — 390+00																					
1-D	375+00 — 383+61	Lt.												86	775							
2-D	383+50 — 390+00	Lt.					10							355	300				1			
3-D	375+00 — 389+53	Rt.													1453							
4-D	389+50 — 390+00	Rt.					10								46				1			
5-D	388+56	@	28	75	1.02					130	484	1				32					1	492
6-D	388+82 — 389+00	Rt.						28					1				36					33
7 D	Not Used																					
8 D	Not Used																					
	390+00 — 405+00																					
9-D	390+00 — 402+66	Lt.				30								391	875			1		1		
10-D	402+50 — 405+00	Lt.					10							260					1			
11-D	390+00 — 397+00	Rt.													700							
12-D	397+00 — 402+96	Rt.					10							411	175							
13-D	403+00 — 405+00	Rt.					10							215						1		
14-D	402+50	Rt.			0.30				118				1			1	125					162
15-D	401+65 — 405+00	Rt.	206																			
TOTAL			234	75	1.32	30	50	28	118	130	484	1	2	1718	4324	33	161					

CALC. DE DATE 6/26/67
CHK'D ARB DATE 4/28/69

ROADWAY & PAVEMENT

REF. NO.	STATION TO STATION	SIDE	606 Guard Rail Type 5 Lin.Ft.	606 Anchor Assembly Each	606 Approach End Assembly Each	GG1 Honey-Suckel Each	603 14" Steel Casing Pipe Lin.Ft.	625 3" Conduit 713.04 Lin.Ft.	301 8"-Bit. Aggregate Base Cu.Yds.	301 3"-Bit. Aggregate Base Cu.Yds.	304 6" Aggregate Base Cu.Yds.	310 Subbase Cu.Yds.	402 1 3/4" Asphalt Concrete Cu.Yds.	404 1 1/4" Asphalt Concrete Cu.Yds.	409 Seal Coat Bituminous Gals.	409 Seal Coat Cover Aggregate Cu.Yds.	SEE SHEET NO.
	ROADWAY																
	375+00 — 390+00																
1-R	376+50 — 380+25	Lt.				578											
2-R	386+00	Rt. & Lt.					100	100									19 & 151
	390+00 — 405+00																
3-R	401+50 — 406+00	Lt.	350	1													
4-R	401+00 — 405+00	Rt.	400		1												
5-R	396+50 — 400+00	Lt.				405											
6-R	392+00 — 401+00	Rt.				1,387											
	PAVEMENT																
	375+00 — 390+00								1888	343	619	2593	389	278	1233	33	
	390+00 — 405+00								1888	191	341	2014	389	278	687	18	
TOTAL			750	1	1	2,370	100	100	4310		960	4607	778	556	1920	51	

QUANTITIES
STA. 375+00 — STA. 405+00

HUBS NOT REFERENCED
Sta. 409+50.00

REFERENCE P.O.C. STA. 406+00.00
6"Locust ℄ 14.9' 24"Elm
405 ℄ 407
12.80'
4"Elm

REFERENCE P.I. STA. 414+01.83
Wood Post 37.08' Hub
71°10'55"
413 220.00' 42.13' 22.90 415
℄ Hub Wood Post

REFERENCE P.O.C. STA. 418+50.00
℄ 6"Elm
9"Elm 23.30' 33.4°
418 ℄ 419
33.0' Hub
6"Poplar

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68

TAILE RUN

LA R/W

601 R.C.P. Type B
83"x8"x2'-0" = 495 Cu. Yds.

601 R.C.P. Type B
83"x12"x2'-0" = 74 Cu. Yds.

667, Jute Matting
11'-0" Wide

S 3°3'01'15" W

LA R/W

S 4°36'55" E

Sta. 405+22.20
End Taper

10' 15'

6" Underdrain

Sta. 407+45 ℄
See Sht. No. 444

12'x11' Reinf. Conc. Box Culvert

406 407 408 409 410 411 412 ℄ SURVEY CLE.-275 413 414 415 416

Sta. 413+94.74: 38 Rt.
Begin Taper

Sta. 415+94.74: 30 Rt.
End Taper

Sta. 416+19.79
13 Lt.

Sta. 415+92.50
25.38 Lt.

Sta. 416+50
℄ Median Crossover

Sta. 417+05.85: 30 Lt.
Begin Taper

Sta. 417+20.0
See Sht. No. 228

Sta. 419+05.85
End Taper

6" Underdrain

Sta. 516+50
13 Rt.

Sta. 517+04.79
24.96 Rt.

MATCH LINE STA. 405+00

MATCH LINE STA. 420+00

90° Tan. to Curve

29° R.F.

6" Underdrain

6' 6' 6'

10' 15'

Sta. 409+40.00
End Taper

601 R.C.P. Type B
945'x8"x2'-0" = 269 Cu. Yds.

601 R.C.P. Type B
15'x8"x2'-0" = 9 Cu. Yds.

601 R.C.P. Type B
15'x8"x2'-0" = 9 Cu. Yds.

LA R/W

660 Sodding 1'-6" Wide, 17.54 Yds.

601 Riprap
9 Sq. Yds.

LA R/W

601 R.C.P. Type B
15'x6'x2'-0" = 7 Cu. Yds.

48" Conduit

601 R.C.P. Type B
98'x8"x2'-0" = 28 Cu. Yds.

Transmisson Tower

℄ SURVEY
CURVE DATA
P.I. = Sta. 414+01.83
Δ = 37° 38' 10"
D = 1° 28' 00" Rt.
R = 3,906.53'
L = 2,566.10'
T = 1,331.27'
E = 220.60'
SE. = .061'/ft.

For Profile See Sht. No. 38
For Quantities See Sht. No. 40
For Superelevation Tables See Sht. No. 11
For Section M-M See Sheet No. 16

B.M. Spike in 15" Walnut
220' Rt. Sta. 404+75
Elev. 569.78

B.M. Spike in 48" Stump
275' Rt. Sta. 410+90
Elev. 585.95

B.M. Spike in 24" Stump
40' Rt. Sta. 414+60
Elev. 698.98

CALC. D.E. DATE 6/26/67

CHK'D R.E.A. DATE 6/29/67

STA. 405 - STA. 420

FED. RD. DIVISION	STATE	PROJECT	
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Sta. 405+00, 38.75' Lt.
F.L. 6" Underdrain Elev. 679.38

Sta. 405+00, 76.33' Rt.
F.L. 6" Underdrain Elev. 677.47

+1.00%

Sta. 409+00, 68' Rt.
F.L. 6" Underdrain Elev. 681.38

Sta. 414+00, 38.75' Lt.
F.L. 6" Underdrain Elev. 688.38

Sta. 415+00, 38.75' Lt.
F.L. 6" Underdrain Elev. 690.89

6" Unclassified Underdrain

Sta. 416+96, 38.75' Lt.
F.L. 6" Underdrain Elev. 693.85

Sta. 416+97, 68' Rt.
F.L. 6" Underdrain Elev. 689.95

Sta. 417+00, 5.0' Rt.
604 Std. No. 4 C.B.
F.L. GRATE = 691.65
Inv. 18" = 688.87
Inv. 6" = 690.33

Rock

Sta. 417+03, 68' Rt.
F.L. 6" Underdrain Elev. 691.57

Rock
Lt. & Rt.

Sta. 417+00, 38.75' Lt.
F.L. 6" Underdrain Elev. 692.89

Sta. 417+75, 68' Rt.
F.L. 6" Underdrain Elev. 692.25

Sta. 417+25, 68' Rt.
F.L. 6" Underdrain Elev. 691.07

Sta. 417+10, 94' Rt.
Outlet 6" Underdrain Elev. 690.50

Sta. 420+00, 38.75' Lt.
F.L. 6" Underdrain Elev. 695.89

Sta. 420+00, 68' Rt.
F.L. 6" Underdrain Elev. 694.50

Sta. 407+45 (Skewed)
12'×11' Reinf. Conc. Box Culvert

203 Excavation	66,235 Cu. Yds.
203 Embankment	1,081,825 Cu. Yds.
659 Seeding & Mulching	71,462 Sq. Yds.

STA 405 - STA 420

FED. RD. DIVISION	STATE	PROJECT	
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REFERENCE P.O.T. S.T.A. 428+61.76
9" Mulberry 76.2' 11.74' 4" Ash
428 ℄ Hub 429
18.47' 4.74'
15" Locust 12" Locust

REFERENCE P.O.T. STA. 432+14.81
12" Ash 16.57'
432 433
9.57' 12.39'
6" Ash 12" Thorn

Power Transmission Line
Abandon Drive
Ditch
Wooded Area
TWP. RD. NO. 211 (BARGS SALT RUN ROAD)
Asphalt
Exist. R/W
50'
LA R/W
667 Jute Matting 11'-0" Wide
MATCH LINE STA. 420+00
MATCH LINE STA. 435+00
6" Underdrain
1 Sty. Fr. Shed
Conc. Blk. Foundation
Privy
Woven Wire
S 33° 01' 15" W
90°
Std. 432+00
See Sheet No. 238
15" Conduit
603.10'6" Conduit Type F
601 R.C.P. Type B 35"x8"x2'-0" = 21 Cu. Yds.
601 R.C.P. Type B 10"x6"x2'0" = 4 Cu. Yds.
421 422 423 424 425 426 427 ℄ 428 429 430 431 432 433 434
16-D 17-D 18-D 19-D 20-D 21-D 22-D 23-D 4-R 5-R
P.T. Sta. 426+36.68
℄ SURVEY
CLE. 275
℄ SURVEY
CURVE DATA
P.I. = Sta. 414+01.83
Δ = 37° 38' 10"
D = 1° 28' 00" Rt.
R = 3,906.53'
L = 2,566.10'
T = 1,331.27'
E = 220.60'
S.E. = 0.061'/Ft.
℄ Strand Barbed Wire
Wooded Area
Wooded Area
LA R/W
LA R/W

For Quantities See Sht. No. 40
For Superelevation Tables
See Sheet No. 11

B.M. Spike in 18" Locust
300' Rt. Sta. 423+00
Elev. 719.66

B.M. Spike in Power Pole
P.O.C. 267' E. 180' Lt. Sta. 434+00
Elev. 733.76

760 750 740 730 720 710 700 690 680

699.00 699.50 700.00 700.26 700.53 700.82 701.12 701.43 701.76 702.11 702.47 702.84 703.23 703.63 704.05 704.48 704.93 705.39 705.87 706.36 706.86 707.38 707.92 708.47 709.03 709.61 710.20 711.40 712.60 713.80 715.00 716.20 717.40 718.60 719.80 721.00 722.20 723.40 724.60 725.80 727.00 728.20 729.40

V.C. = 600'
P.V.C. Sta. 421+00
Elev. 700.00
P.V.I. Sta. 424+00
Elev. 703.00
P.V.I. Sta. 427+00
Elev. 710.20

Sta. 420+00, 38.75' Lt.
F.L. 6" Underdrain Elev. 695.89
+1.00%
Sta. 420+00, 68' Rt.
F.L. 6" Underdrain Elev. 694.50
F.L. 6" Underdrain 38.75' Lt.
F.L. 6" Underdrain 68' Rt.
Sta. 428+75, 38.75' Lt.
F.L. 6" Underdrain Elev. 711.29
Sta. 428+75, 68' Lt.
F.L. 6" Underdrain Elev. 711.68
Sta. 429+75, 38.75' Lt.
End 6" Underdrain
FL. Elev. 713.74
+2.40%
Sta. 429+00, 68' Rt.
F.L. 6" Underdrain Elev. 711.71
6" Unclassified Underdrain
Sta. 430+00, 68' Rt.
F.L. 6" Underdrain Elev. 712.84
Sta. 431+96, 68' Lt.
End 6" Underdrain Elev. 713.04
Sta. 432+00, 68' Lt.
F.L. 6" Underdrain Elev. 719.14
Sta. 432+00 ℄
604, Std. No. 4 C.B.
F.L. GRATE = 717.70
Inv. 15" = 715.28
Inv. 6" = 716.03
Sta. 433+00, 68' Lt.
F.L. 6" Underdrain
Elev. 721.54
6" Unclassified Underdrain
Sta. 433+00, 98' Rt.
Outlet 6" Underdrain Elev. 720.00
Sta. 433+14, 68' Rt.
End 6" Underdrain Elev. 720.38
Sta. 433+18, 68' Rt.
F.L. 6" Underdrain Elev. 720.47
Sta. 434+00, 68' Lt.
F.L. 6" Underdrain
Elev. 722.44
Sta. 435+00, 68' Lt. & Rt.
F.L. 6" Underdrain Elev. 724.84

CALC. DE DATE 6/26/67
CHK'D RED DATE 6/29/67

203	Excavation	201,585 Cu. Yds.
203	Embankment	11,076 Cu. Yds.
659	Seeding & Mulching	39,997 Sq. Yds.

221.3 221.3 221.1 220.7 219.4 217.8 216.0 +15 215.9 212.9 221.5 224.6 225.1 225.7 226.7 +38.7 227.1 227.4 227.8 228.3 +61.8 229.7 228.9 227.9 227.5 226.3 224.5 223.6 223.2 222.6 222.3 222.0 221.5 221.2 220.8 220.5 219.6 218.4 217.5 216.2

420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435

STA 420 - STA 435

FED. RD. DIVISION	STATE	PROJECT	
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CLERMONT COUNTY
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ESTIMATED QUANTITIES

DRAINAGE

REF. NO.	STATION TO STATION	SIDE	601 Rock Channel Protection Type B Cu.Yds.	602 Concrete Riprap Sq. Yds.	602 Concrete Masonry Cu. Yds.	603 6" Conduit Type B Lin.Ft.	603 6" Conduit Type F Lin.Ft.	603 15" Conduit Type B Lin.Ft.	603 15" Conduit Type F Lin.Ft.	603 18" Conduit Type B Lin.Ft.	603 18" Conduit Type F Lin.Ft.	604 Std. No.4 Catch Basin Each	605 6" Underdrain Shallow Lin.Ft.	605 6" Underdrain 707.01 Type III or 707.12 Lin.Ft.	605 6" Unclassified Underdrain 707.01 Type III or 707.12 Lin.Ft.	660 Sodding Sq. Yds.	667 Jute Matting Sq. Yds.	513 Structural Steel Lbs.	503 Unclassified Excavation Including Rock Cu. Yds. Earth	503 Rock	509 Reinf. Steel Lbs.	511 Class "C" Concrete Cu. Yds.	605 6"x6"x6" Tee	605 6"x6"x60° Wye	605 6"x6"x60° Bend	605 6"x6"x90° Bend	605 15"x25° Bend	605 18x11¼° Bend	SEE SHEET NO.
	405+00 – 420+00																										
1-D	405+00 – 416+96	Lt.											900	196	100												
2-D	417+00 – 420+00	Lt.					10							326													
3-D	405+00 – 416+97	Rt.											1197														
4-D	417+03 – 420+00	Rt.					10							314									1				
5-D	407+45	℄		9	0.26				14							44		2709	3164	4281	1,378,479	4256						444
6-D	417+00	Rt.	7		0.30					84	58	1				1											2	228
7-D	405+50 – 412+75	Lt.	495																								
8-D	412+75 – 413+50	Lt.	74																								
9-D	413+50 – 414+00	Lt.															62										
10-D	405+00 – 409+39	Rt.	264																								
11-D	405+50 – 405+66	Rt.	9																								
12-D	408+90 – 408+95	Rt.	9																								
13-D	417+38 – 417+70	Rt.	28																								
14-D	Not Used																										
15-D	Not Used																										
	420+00 – 435+00																										
16-D	420+00 – 429+75	Lt.												975									1				
17-D	428+75 – 431+96	Lt.				30								321												1	
18-D	432+00 – 435+00	Lt.				58	10						100	100	100											1	
19-D	420+00 – 433+14	Rt.					10						304	900	100												
20-D	433+00 – 435+00	Rt.					10						207														
21-D	432+00	Rt.	4		0.26			88	56			1				1											2	238
22-D	433+00 – 435+00	Lt.															244										
23-D	433+00 – 433+25	Rt.	21																								
TOTAL			911	9	0.82	88	50	88	70	84	58	2	2708	3132	300	46	306	2709	7445		1,378,479	4256						

CALC. DK DATE 6/26/62

CHK'D AB DATE 4/28/69

ROADWAY & PAVEMENT

REF. NO.	STATION TO STATION	SIDE	606 Guard Rail Type 5 Lin.Ft.	606 Anchor Assembly Each	606 Approach End Assembly Each	Spl. Cleaning of Privy Vaults Each	301 8" Bit. Aggregate Base Cu.Yds.	301 3" Bit. Aggregate Base Cu.Yds.	304 2" Aggregate Base Cu.Yds.	310 Subbase Cu.Yds.	402 1¾" Asphalt Concrete Cu.Yds.	404 1¼" Asphalt Concrete Cu.Yds.	409 Seal Coat Bituminous Gals.	409 Seal Coat Cover Aggregate Cu.Yds.	SEE SHEET NO.
	ROADWAY														
	405+00 – 420+00														
1-R	405+00 – 413+50	Lt.	850		1										
2-R	405+00 – 417+50	Rt.	1250	1											
3-R	Not Used														
	420+00 – 435+00														
4-R	426+00 – 433+25	Rt.	725	2											
5-R	430+59	Lt.				1									
	PAVEMENT														
	405+00 – 420+00						1888	350	632	2030	389	278	1259	34	
1-P	413+94.74 – 419+05.85							56	118	119			199	5	
	420+00 – 435+00						1888	389	704	2942	389	278	1400	37	
TOTAL			2825	3	1	1	4571		1454	5091	778	556	2858	76	

QUANTITIES
STA. 405+00 – STA. 435+00

HUBS NOT REFERENCED
Sta. 436+26.56
Sta. 444+83.36

REFERENCE P.O.T. STA. 440+06.86
6" Ash — 25.18 — 17.72 — 3" Maple
℄ 440
11.82 — 3" Ash

REFERENCE P.O.T. STA. 449+57.18
449 — ℄ — 450
6" Ash — 17.96 — 23.14 — 3" Thorn

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667 Jute Matting
11'-0" Wide

Exist. R/W
TWP. RD. NO. 211 (BARGS SALT RUN ROAD)
Asphalt
Woven Wire
Exist. R/W
LA R/W
Exist. R/W
LA R/W
5-D
6-D
15" C.M.P.
601, 36' Type 3 Paved Gutter See Sht. No. 246
Wooded Area
6" Underdrain
1-D
1-D
6" Underdrain
MATCH LINE STA. 435+00
MATCH LINE STA. 450+00
436 437 438 439 440 441 442 443 ℄ 444 445 446 447 448 449
S 33° 01' 15" W
SURVEY CLE-275
Sta. 446+50 ℄
See Sht. No. 249
90°
18" Conduit
10'x 6" Conduit Type "F"
6" Underdrain
2-D
2-D
3-D
6" Underdrain
Woven Wire
Wooded Area
4-D
7-D
8-D
LA R/W
LA R/W
601 R.C.P. Type B
22'x10'x2'-0" = 16 Cu. Yds.
601 R.C.P. Type B
5'x6'x2'-0" = 2 Cu. Yds.
601 R.C.P. Type B
48'x10'x2'-0" = 36 Cu. Yds.
Temporary Easement
B.M. Spike in Power Pole
"TC-263-E 175' Lt. Sta. 446+00
Elev. 776.78
For Quantities See Sheet No. 43

229.40 230.60 231.80 233.00 234.20 235.40 236.60 237.80 239.00 240.20 241.40 242.60 243.80 245.00 246.20 247.40 248.60 249.80 251.00 252.20 253.40 254.60 255.80 257.00 258.20 259.40 260.60 261.80 263.00 264.20 265.40

780 770 760 750 740 730 720

Sta. 450+00, 68' Lt.
FL. 6" Underdrain Elev. 762.34
Sta. 446+50 ℄
604, Std. No. 4 C.B.
FL. GRATE = 752.50
Inv. 18" = 750.08
Sta. 448+46, 68' Rt.
End 6" Underdrain
FL. Elev. 757.14
+2.40 %
Sta. 440+00, 68' Lt
FL. 6" Underdrain Elev. 738.34
6" Unclassified Underdrain
FL. 6" Underdrain Lt.
FL. 6" Underdrain Rt.
Sta. 448+50, 68' Rt.
FL. 6" Underdrain Elev. 757.24
Sta. 448+50, 104' Rt.
Outlet 6" Underdrain Elev. 756.00
Sta. 450+00, 68' Rt.
FL. 6" Underdrain Elev. 760.84
Sta. 439+00, 68' Lt. & Rt.
FL. 6" Underdrain Elev. 734.44
FL. 6" Underdrain Lt. & Rt.
Sta. 435+00, 68' Lt. & Rt.
FL. 6" Underdrain Elev. 724.84

203 Excavation	104,483 Cu. Yds.
203 Embankment	9,411 Cu. Yds.
659 Seeding & Mulching	34,634 Sq. Yds.

CALC. DL DATE 6/22/67
CHK'D RCA DATE 6/23/67

742.2 742.7 742.9 743.0 743.7 744.1 745.5 746.5 746.2 748.0 748.8 749.7 742.4 742.6 742.8 743.3 743.2 748.0 744.5 744.0 747.4 748.4 755.5 745.5 755.5 756.0 756.7 759.5 762.2 763.5 761.8 761.0 759.9 758.8 762.4 762.3 762.6 762.4 762.1 762.6 762.9 762.7 762.5 762.4 763.8 762.8 763.0 763.1 763.2 763.5

435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450

STA 435 - STA 450

HUBS NOT REFERENCED
Sta. 453+30.09

REFERENCE POT. STA. 458+43.97
Hub
15.75 @ 6" Elm
6.48 @ 9" Walnut
458
18.65
10.79
459
6" Stump
6" Ash

REFERENCE PC STA. 461+79.20
18" Locust
730°
6" Ash
461
462
4.23
4.48
4.48
6" Ash
3" Elm

FED. RD. DIVISION	STATE	PROJECT	
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℄ SURVEY
CURVE DATA
P.I.=Sta 473+51.04
Δ=17°26'30"
Q=0°45'00" Lt.
R = 7,639.44'
L = 2,325.56'
T = 1,171.84'
E = 89.35'
S.E. = .032 ft

TWP. ROAD NO. 211 (BARGS SALT RUN RD.)
Exist. R/W
Gravel
Asphalt
Concrete
Exist. R/W
TWP. ROAD NO. 211 (BARGS SALT RUN RD.)
Asphalt
12" Conc.
Misc.
B.M.
1-Sty. Fr. Shed
Gravel
Temporary Easement
Conc. Walk
Screened in Porch
2-Sty. Fr. #4875
1-Sty. Fr. Garage
LA R/W
Wooded Area
LA R/W
P.C. Sta 461+79.20
Leach Area
Septic Tank
Stone Wall
Conc. Walk
Privy
1-Sty. Fr. Shed
Metal Fence
1-Sty. Frame
#4859
1-Sty. Fr. Garage
Septic Tank
Leach Area
MATCH LINE STA. 450+00
MATCH LINE STA. 465+00
6" Underdrain
Rabbit Hutches
Woven Wire
Sta. 459+50 ℄
See Sht. No. 259
Sta. 459+30, 22' Rt.
See Sht. No. 259
18" Conduit
Woven & 2 Strands Barbed Wire
Sta. 464+50
See Sht. No. 262
18" Conduit
6" Underdrain
6" Underdrain
S. 33° 01' 15" W.
SURVEY CLE. 275
Woven Wire
10' x 6" Conduit Type F
Woven Wire
601 R.C.P. Type B
84' x 10' x 2'-0" = 62 Cu. Yds.
601 R.C.P. Type B
124' x 10' x 2'-0" = 92 Cu. Yds.
601 R.C.P. Type B
45' x 10' x 2'-0" = 33 Cu. Yds.
21" Conduit
601 R.C.P. Type B
14' x 6' x 2'-0" = 6 Cu. Yds.
Temporary Easement
B.M. Spike in Power Pole
"I-C-289-E 200' Lt. Sta. 457+50
Elev. 798.31

For Quantities See Sht. No. 43
For Superelevation Tables
See Sht. No. 11

Note: Sta. 452+05 to Sta. 452+33 Lt. Existing Pavement outside the Construction Limits, but within the R/W Limits shall be removed and Earth Backfilled. Payment for removal shall be included in Item 202; Earth Backfill shall be included in Item 203 Embankment.
For Quantities See Sht. No's. 256

Note: Sta. 457+38 Lt. ——— The Existing Pavement outside the Construction Limits, but within the R/W Limits shall be removed and Earth Backfilled. Payment for removal shall be included in Item 203 Excavation not including Embankment Construction. Earth Backfill shall be included in Item 203 Embankment.
For Quantities See Sht. No's. 258

765.40 766.60 767.80 769.20 770.20 771.40 772.60 773.80 775.00 775.60 776.18 776.76 777.33 777.89 778.44 778.99 779.52 780.05 780.56 781.07 781.57 782.06 782.54 783.02 783.48 783.94 784.38 784.82 785.25 785.67 786.03 786.49 786.83 787.27 787.66 788.01 788.37 788.72 789.06 789.40 789.72 790.04 790.34 790.64 790.93 791.21 791.48 791.75 792.00 792.50 793.00

Existing Ground
Sta. 450+00, 68' Lt.
F.L. 6" Underdrain Elev. 762.34
2.40%
Sta. 450+00, 68' Rt.
F.L. 6" Underdrain Elev. 760.84
F.L. 6" Underdrain 68' Lt.
F.L. 6" Underdrain 68' Rt.
P.V.C. Sta. 454+00
Elev. 775.00
Sta. 459+46, 68' Lt.
End 6" Underdrain F.L. Elev. 782.94
+2.40%
Sta. 459+50 ℄
604, Std. No. 4 C.B.
F.L. Grate = 781.58
Inv. 18" = 779.08
Inv. 6" = 780.00
P.V.T. Sta. 459+00
Elev. 787.00
Sta. 459+50, 68' Lt.
F.L. 6" Underdrain Elev. 783.02
1,000' V.C.
Sta. 459+50, 22' Rt.
604, Std. No. 1-A M.H.
Top Elev = 784.41
Inv. 18" = 778.64 East
Inv. 18" = 778.64 South
Inv. 21" = 778.39
Inv. 6" = 781.00
Sta. 459+60 38.75' Rt.
Begin 6" Underdrain F.L. Elev. 781.78
+1.00%
F.L. 6" Underdrain 38.75' Rt.
6" Unclassified Underdrain
Sta. 461+00, 38.75' Rt.
F.L. 6" Underdrain Elev. 785.35
Sta. 460+50, 38.75' Rt.
F.L. 6" Underdrain Elev. 783.12
Sta. 460+50, 68' Rt.
End 6" Underdrain F.L. Elev. 783.08
Sta. 464+50, 22' Rt.
604, Std. No. 1 M.H.
Top Elev. = 790.83
Inv. 18" = 785.54
Sta. 465+00, 38.75' Rt.
F.L. 6" Underdrain
Elev. 789.98
+1.00
For Continuation See Sht. No.
FL. 6" Underdrain 68' Lt.
Sta. 465+00, 68' Lt.
F.L. 6" Underdrain
Elev. 789.28
P.V.T. Sta. 464+00
Elev. 792.00
603, 500' x 18" Conduit Type "C" Cl. B Bending @ 1.38%
603, 50' x 18" Conduit Type "C" Cl. B Bending @ 1.00%

CALC. DE DATE 6/26/67
CHK'D RLA DATE 6/29/67

203 Excavation	144,964 Cu. Yds.
203 Embankment	10,511 Cu. Yds.
659 Seeding & Mulching	41,310 Sq. Yds.

810 800 790 780 770 760

767.7 767.8 766.9 765.5 763.1 764.5 772.0 772.3 770.5 768.5 767.4 766.6 773.0 776.3 778.0 781.2 781.9 783.2 784.4 787.3 788.8 788.7 789.8 790.7 791.2 791.8 791.1 790.3 790.7 793.2 795.4 796.4 797.7 798.3 798.8 799.4 797.6 797.1 798.3 797.0 796.2 796.3 798.6 800.6 803.1 804.7 804.6 807.5 807.2 807.6 804.6 804.6 806.1 807.6

.20 .40 .95 .63 .52 .26 .45 .48 .81 .23 .06 .22 .30 .63 .85 .60 .96 .80 .90 .30 .79 .33 .98 .03

450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465

STA. 450 - STA. 465

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE - 275 - 6.68

ESTIMATED QUANTITIES

DRAINAGE

REF. NO.	STATION TO STATION		SIDE	601 Rock Channel Protection Type B Cu.Yds.	601 Paved Gutter Type 3 Lin. Ft.	602 Concrete Masonry Cu. Yds.	603 6" Conduit Type "B" Lin. Ft.	603 6" Conduit Type F Lin. Ft.	603 8" Conduit Type B Lin. Ft.	603 8" Conduit Type C Lin. Ft.	603 8" Conduit Type F Lin. Ft.	603 21" Conduit Type "B" Lin. Ft.	604 Std. No. 4 Catch Basin Each	604 Std. No. 1-A Manhole Each	604 Std. No. 1 Manhole Each	605 6" Underdrain Shallow Lin. Ft.	605 6" Underdrain 707.01 Type III or 707.12 Lin. Ft.	605 6" Unclassified Underdrain 707.01 Type III or 707.12 Lin. Ft.	660 Sodding Sq. Yds.	667 Jute Matting Sq. Yds.	6"x6"x60° Bend	6"x6"x90° Bend	18"x11¼° Bend	SEE SHEET NO.
	435+00	450+00																					
1-D	435+00	450+00	Lt.												400	1000	100						
2-D	435+00	448+46	Rt.					10							1336								
3-D	448+50	450+00	Rt.					10							175								
4-D	446+50		Rt.	2		0.30			94		36		1					1			2		249
5-D	435+00	440+00	Lt.																611				
6-D	443+25		Lt.		36																		246
7-D	443+37	443+57	Rt.	16																			
8-D	446+43	446+81	Rt.	36																			
9-D	Not Used																						
10-D	Not Used																						
	450+00	465+00																					
11-D	450+00	459+46	Lt.													946							
12-D	459+50	465+00	Lt.				58	10								550					1		
13-D	450+00	460+50	Rt.					10							1040								
14-D	459+50	465+00	Rt.					10							100	400	50			1			
15-D	459+50		Rt.							22			1										259
16-D	459+50		Rt.	6		0.36						132		1				2					259
17-D	459+50	464+50	Rt.							500				1									42
18-D	464+50	465+00	Rt.							50													42
19-D	451+26	452+46	Rt.	92																			
20-D	453+40	453+73	Rt.	33																			
21-D	459+87	460+60	Rt.	62																			
TOTAL				247	36	0.66	58	50	94	572	36	132	2	1	1	3051	2896	150	3	611				

CALC. DE DATE 6/26/67

CHK'D AB DATE 6/28/67

ROADWAY & PAVEMENT

REF. NO.	STATION TO STATION		SIDE	202 Existing Sidewalk Removed & Disposed of Sq. Ft.	Spl. Cleaning of Privy Vaults Each	Spl. Cleaning & Disposal of Septic Tanks Each	301 8"-Bit. Aggregate Base Cu. Yds.	301 3"-Bit. Aggregate Base Cu. Yds.	304 6" Aggregate Base Cu. Yds.	310 Subbase Cu. Yds.	402 1¾" Asphalt Concrete Cu. Yds.	404 1½" Asphalt Concrete Cu. Yds.	409 Seal Coat Bituminous Gals.	409 Seal Coat Cover Aggregate Cu. Yds.	SEE SHEET NO.
	ROADWAY														
	435+00	450+00													
1-R	Not Used														
2-R	Not Used														
	450+00	465+00													
3-R	452+05	452+25	Lt.	111											
4-R	452+86		Lt.		1										
5-R	451+75		Rt.			1									
6-R	458+10		Rt.			1									
	PAVEMENT														
	435+00	450+00					1888	389	704	2362	389	278	1400	37	
	450+00	465+00					1888	389	704	2327	389	278	1400	37	
TOTAL				111	1	2	4554		1408	4689	778	556	2800	74	

QUANTITIES
STA. 435+00 - STA. 465+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY

For TWP. RD. NO. 211 (Barge Salt Run) Plan & Profile See Sht. No. 66

REFERENCE P.I. STA. 473+51.09

Note: The Existing Pavement CLE.-275-6.68 Outside the Construction Limits but Within the R/W Limits of Sta. 473+50 Left, Sta. 476+00 Left and Sta. 480+20 Right Shall be Removed and Earth Backfilled. Payment For Removal Shall be Included in Item 203 Excavation Not Including Embankment. Earth Backfill Shall be Included in Item 203 Embankment. For Quantities See Sheet No.s 270-268-270

℄ SURVEY CURVE DATA
P.I. = Sta. 473+51.04
Δ = 17°26'30"
D = 0°45'00" Lt.
R = 7,639.44'
L = 2,325.56'
T = 1,171.84'
E = 89.35'
S.E. = .032'/'

TWP. RD. NO. 211 (Barge Salt Run Road)

Sta. 53+25 See Sht. No. 463

Begin Approach Slab Sta. 51+62.96

Sta. 469+50, 22' Rt. See Sht. No. 264

Sta. 474+50, 22' Rt. See Sht. No. 267

Sta. 475+50 See Sht. No. 267

Sta. 50+00 Barge Salt Run Rd. = Sta. 473+75 I-275-0836

S.33°01'15"W

S.15°34'45"W

56°00'00" Tan. to Curve

40° Tan. to Curve

R=80°00'08"

R=25'

End Approach Slab Sta. 481+34.29

MATCH LINE STA. 465+00

MATCH LINE STA. 480+00

For Quantities, See Sheet No. 46
For Superelevations, See Sheet No's. 11 & 12

For Quantities See Sheet No. 66

B.M. Spike in Power Pole "I-C-252-E 200' Lt. Sta. 473+65± Elev. 821.82

CALC. DE DATE 6/26/67

CHK'D REA DATE 6/29/67

203 Excavation = 271,201 Cu. Yds.
203 Embankment = 81 Cu. Yds.
659 Seeding & Mulching 32.27 Sq. Yds.

Sta. 465+00, 38.75' Rt. ℄ 6" Underdrain, Elev. 789.98

℄ 6" Underdrain, 38.75' Rt.

+1.00%

Sta. 465+00, 68' Lt. ℄ 6" Underdrain, Elev. 789.28

℄ 6" Underdrain, 68' Lt.

603, 450' x 18" Conduit, Type "C", Cl. "B" Bedding @ 1.00%

603, 500' x 18" Conduit, Type "C", Cl. "B" Bedding @ 1.00%

603, 102' x 18" Conduit, Type "C", Cl. "B" Bedding @ 1.00%

Sta. 469+50, 22' Rt. 604, Std. No. 1-A M.H. Top Elev. = 795.83 Inv. 18" = 790.54

Sta. 474+50, 22' Rt. 604, Std. No. 1-A M.H. Top Elev. = 800.83 Inv. 18" = 795.54 Inv. 6" = 798.50

Sta. 475+50, ℄ 604, Std. No. 4 C.B. ℄ Grate = 799.08 Inv. 18" = 796.54

Sta. 474+56, 38.75' Rt. End 6" Underdrain, ℄ Elev. 799.54

Sta. 474+60, 38.75' Rt. ℄ 6" Underdrain, Elev. 799.58

Sta. 480+00, 38.75' Rt. ℄ 6" Underdrain, Elev. 804.58

Sta. 479+50, 68' Lt. ℄ 6" Underdrain, Elev. 803.78

Sta. 480+00, 68' Lt. ℄ 6" Underdrain, Elev. 803.91

6" Unclassified Underdrain

Existing Ground

℄ Barge Salt Run Road

STA 465 - STA 480

HUBS NOT REFERENCED
Sta. 480+25.00
Sta. 487+63.19
Sta. 492+76.62

REFERENCE P.T. STA. 485+04.76
485 1.18' ℄ 12" Hickory 486
5.64' 8" Walnut

℄ SURVEY
CURVE DATA
P.I. = Sta. 473 + 51.04
Δ = 17°26'30"
D = 0°45'00"
R = 9,639.44'
L = 2,325.56'
T = 1,111.84'
E = 89.85'
SE = 0.032'/'

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68

601 R.C.P. Type B
15"×10"×3'-0" = 17 Cu. Yds.
667 Jute Matting
7'-6" Wide
601 R.C.P. Type B
15"×10"×3'-0" = 17 Cu. Yds.
10"×6" Conduit
Type F

601 R.C.P. Type B
8"×10"×3'-0" = 9 Cu. Yds.
667 Jute Matting
7'-6" Wide

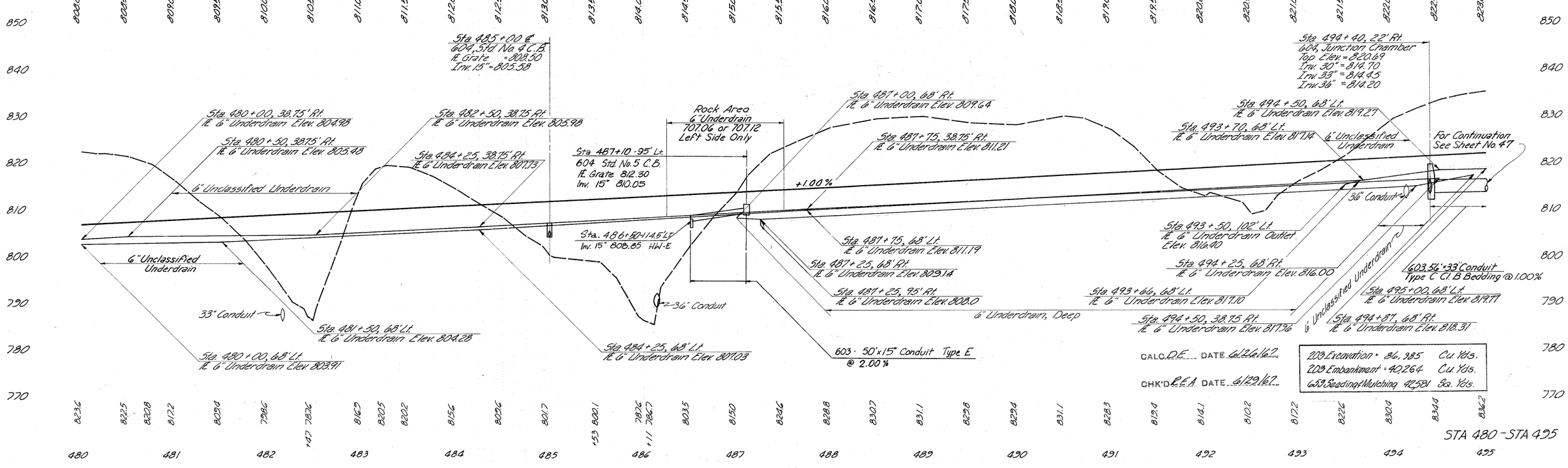
For Superelevation Table
See Sheet No. 12

601 R.C.P. Type B
20"×8"×3'-0" = 18 Cu. Yds.
10"×9"×3'-0" = 10 Cu. Yds.
667 Jute Matting
11'-0" Wide
667 Jute Matting
7'-6" Wide
10"×6" Conduit
Type F

LA R/W

MATCH LINE STA. 480+00

6" Underdrain
33" Conduit
15" Conduit
90° Tan. to Curve
481 482 483 484 485 486 487 488 489 490 491 492 493 494
℄ SURVEY CLE 275
S. 15°34'45" W.
6" Underdrain
36" Conduit
Sta. 486+11
See Sht. No. 454
Sta. 494+15
See Sheet No. 455
Sta. 494+40, 22' Rt.
See Sheet No. 456
48"30° R.F.
33" Conduit
30" Conduit
8" Underdrain
Sta. 482+15
See Sht. No. 453
Sta. 485+00
See Sht. No. 274
667 Jute Matting
7'-6" Wide, 150'
40° R.F.
2-36" Conduit
Ex. R/W
SALT RUN TRIB.
601 R.C.P. Type B
43"×6"×2'-0" = 19 Cu. Yds.
660 Sodding, 1'-6" Wide
601 Riprap
Sta. 480+14, 180' Rt.
Begin Ditch
667 Jute Matting
7'-6" Wide
Temporary Easement
Top of Dike
Elev. 826.5
Grade to Drain
Ex. R/W
Temporary Easement
B.M. Spike in Power Pole "6-C-330-E
50.12' Rt. Sta. 480+25
Elev. 826.31
B.M. Spike in 15" Hickory
75' Rt. Sta. 484+00
Elev. 811.07
601 R.C.P. Type B
14'8"×2'+12'6"×2' = 14 Cu. Yds.
601 R.C.P. Type B
30"×8"×2'-0" = 53 Cu. Yds.
601 R.C.P. Type B
8'×15"×2'+8'×12"×2' = 16 Cu. Yds.
For Quantities
See Sheet No. 96
Underground Telephone Cable
Exist. 30' Easement
(American Telephone & Telegraph Co.).



CALC. D.E. DATE 6/26/62
CHK'D R.E.A. DATE 6/29/62

203 Excavation =	86,985	Cu. Yds.
203 Embankment =	40264	Cu. Yds.
659 Seeding & Mulching	42581	Sq. Yds.

STA 480 - STA 495

ESTIMATED QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE-275 - 6.68

DRAINAGE

REF. NO.	STATION TO STATION		SIDE	601 Rock Channel Protection Type B Cu. Yds.	601 Concrete Riprap Sq. Yds.	602 Concrete Masonry Cu. Yds.	603 6" Conduit Type F Lin. Ft.	603 15" Conduit Type B Lin. Ft.	603 15" Conduit Type E Lin. Ft.	603 15" Conduit Type F Lin. Ft.	603 18" Conduit Type C Lin. Ft.	603 30" Conduit Type A 706.02 or 706.08 Lin. Ft.	603 30" Conduit Type A 706.02 Cl. III Lin. Ft.	603 33" Conduit Type C Lin. Ft.	603 36" Conduit Type A 706.02 or 706.08 Lin. Ft.	603 36" Conduit Type A 706.02 Cl. III Lin. Ft.	604 Junction Chamber As Per Plan Each	604 Std. No. 1A Manhole Each	604 Std. No. 4 Catch Basin Each	604 Std. No. 5 Catch Basin Each	605 6" Underdrain Deep Lin. Ft.	605 6" Underdrain Shallow Lin. Ft.	605 6" Underdrain 707.01 Type III or 707.12 Lin. Ft.	605 6" Unclassified Underdrain 707.01 Type III or 707.12 Lin. Ft.	660 Sodding Sq. Yds.	667 Jute Matting Sq. Yds.		6½"x60° Bend	6½"x90° Bend	15"x25° Bend			SEE SHEET NO.
	465+00	480+00																													
1-D	465+00	480+00	Lt.																			1950	50								
2-D	465+00	474+56	Rt.																			356									
3-D	474+50	480+00	Rt.				10															550					1				
4-D	465+00	469+50	Rt.								450						1														44
5-D	469+50	474+50	Rt.								500						1														44
6-D	474+50	475+90	Rt.								102							1													44
7-D	Not Used																														
8-D	Not Used																														
	480+00	495+00																													
9-D	480+00	493+66	Lt.				20															1071	125	150							
10-D	493+50	495+00	Lt.				40																50	80			1				
11-D	480+00	494+50	Rt.																			1200	50	200							
12-D	487+00	494+87	Rt.				10														740			62			1				
13-D	482+15		Lt.	17	36	1.10							278												11						453
14-D	485+00		Lt.			0.26		88		46								1							1	125		2			214
15-D	486+11		Rt.	26		1.18										336									6						454
16-D	494+15		Rt.	28	51	1.14						120			202		1								24						455
17-D	494+44	495+00	Rt.											56																	45
18-D	482+20	482+75	Lt.																							60					
19-D	Not Used																														
20-D	483+07	485+80	Lt.																							61					
21-D	492+89	494+10	Lt.																							149					
22-D	494+10	494+50	Lt.																							88					
23-D	480+95		Rt.	13																											
24-D	482+21	482+90	Rt.																							81					
25-D	486+29	486+94	Rt.	14																											
26-D	487+40	488+10	Rt.	53																											
27-D	494+00	494+15	Rt.	16																											
28-D	486+50	487+10	Lt.			0.26			50										1												
TOTAL				171	87	3.94	80	88	50	46	1052	120	278	56	202	336	1	2	2	1	740	2271	3181	542	42	564					

CALC. dk DATE 6/20/67

CHK'D dB DATE 6/28/67

ROADWAY & PAVEMENT

REF. NO.	STATION TO STATION		SIDE	606 Guard Rail Type 5 Lin. Ft.	606 Barrier Guard Rail Type 5 Lin. Ft.	606 Guard Rail Type 4 Lin. Ft.	606 Anchor Assembly Each	606 Approach End Assembly Single Rail Each	606 Approach End Assembly Barrier Rail Each	301 8" Bit. Aggregate Base Cu. Yds.	301 3" Bit. Aggregate Base Cu. Yds.	304 6" Aggregate Base Cu. Yds.	310 Subbase Cu. Yds.	402 1¾" Asphalt Concrete Cu. Yds.	404 1¼" Asphalt Concrete Cu. Yds.	409 Seal Coat Bituminous Gals.	409 Seal Coat Cover Aggregate Cu. Yds.			SEE SHEET NO.
	ROADWAY																			
	465+00	480+00																		
1-R	472+81	474+56	Lt.	175			1	1												
2-R	472+37.5	478+12.5	Lt. & Rt.	450	50				2											
3-R	472+91.5	474+66.5	Rt.	175			1	1												
4-R	475+90					25														
	480+00	495+00																		
5-R	481+87.50	487+00	Lt.	562.50			2													
6-R	485+50	487+75	Rt.	225			2													
7-R	480+23		Rt.			12.5														
	Pavement																			
	465+00	480+00								1888	389	704	2107	389	278	1400	37			
	480+00	495+00								1888	389	704	2148	389	278	1400	37			
TOTAL				1387.50	50	37.5	6	2	2	4554		1408	4255	778	556	2800	74			

QUANTITIES
STA. 465+00 - STA. 495+00

HUBS NOT REFERENCED
Sta. 499+52.72
Sta. 503+82.29

REFERENCE P.O.T. STA. 496+49.18
496 — 24" Stump 15.00 — 8.80 — 497 — 9" Ash — 48.0 Wood Post

REFERENCE P.O.T. STA. 506+88.00
506 — 5" Ash 3.25 — 2.0 — 3" Elm — 507 — 8.80 — Wood Post

FED. RD. DIVISION	STATE	PROJECT	
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CLERMONT COUNTY
CLE.-275-6.68

4 Strand Barbed Wire

LA R/W

MATCH LINE STA. 495+00

MATCH LINE STA. 510+00

6" Underdrain (1-D)

(1-D) (2-D)

(3-D) 496 497 498 499 500 501 502 503 504 505 506 507 508 509

Sta. 499+00 ℄ See Sheet No.

21" Conduit

(7-D)

S 15°34'45" W

℄ SURVEY CLE.-275

8" Gas Line

33" Conduit

(3-D) Sta. 497+50, 22' Rt. See Sheet No. 451

603, 10'×6" Conduit Type F

(4-D)

30" Conduit 6" Underdrain

6" Underdrain (4-D)

33" Conduit

(6-D) 2-3'×4'×6' Cascades See Sheet No. 283

601 Riprap

601 Riprap

For Cascade Details See Sheet No. 441

660 Sodding 1'-6" Wide

660 Sodding 1'-6" Wide

For Dike & Channel Details See Sheet No. 455

High Tension Tower

B.M. Spike in Root of 12" Maple 190' Rt. Sta. 500+00 Elev. 851.62

For Quantities See Sheet No. 49

B.M. Spike in 6" Ash 215' Rt. Sta. 506+88 Elev. 867.09

823.00 823.50 824.00 824.50 825.00 825.25 826.00 826.50 827.00 827.50 828.00 828.50 829.00 829.50 830.00 830.50 831.00 831.50 832.00 832.50 833.00 833.50 834.00 834.50 834.75 835.01 835.26 835.53 835.79 836.06 836.33 836.60 836.88 837.16 837.44 837.73 838.01 838.31

870 860 850 840 830 820

6" Unclassified Underdrain Right Side

Sta. 495+00 68' Rt. Begin 6" Underdrain Elev. 819.97

Sta. 495+00 68' Lt. IE 6" Underdrain Elev. 819.77

Sta. 495+33 100' Rt. Outlet 6" Underdrain Elev. 818.52

Sta. 495+53 68' Rt. IE 6" Underdrain Elev. 818.97

Sta. 496+00 68' Lt & Rt. IE 6" Underdrain Elev. 820.77

Sta. 497+50, 22' Rt.
604 Std. No. 1-A M.H.
Top Elev. = 823.67
Inv. 21" = 818.51
Inv. 33" = 817.51
Inv. 33" = 817.51

Sta. 498+96 68' Lt & Rt. End 6" Underdrain Elev. 823.73

Sta. 499+00 ℄
604 Std. No. 4 C.B.
IE Grate = 822.50
Inv. 21" = 819.91
Inv. 6" = 820.00

Sta. 499+00 68' Lt & Rt. IE 6" Underdrain Elev. 823.77

603, 250'×33" Conduit Type C Cl. 'B' Bedding @ 1.00%

603, 152'×21" Conduit Type C Cl. 'B' Bedding @ 0.92%

+1.00%

IE 6" Underdrain 68' Lt & Rt.

8" Gas Line

400 V.C.

PVC. Sta. 502+50.00 Elev. 834.50

Sta. 506+50 68' Lt & Rt. IE 6" Underdrain Elev. 831.27

Sta. 508+50 68' Lt & Rt. IE 6" Underdrain Elev. 833.37

+1.00% +1.20%

PVC. Sta. 508+50 Elev. 836.90

Sta. 510+00 68' Lt & Rt. IE 6" Underdrain Elev. 835.08

203 Excavation 345,905 Cu. Yd.
203 Embankment 41 Cu. Yd.
659 Seeding & Mulching 38,575 Sq. Yd.

CALC. DE DATE 6/26/67
CHK'D RBA DATE 6/29/67

836.2 837.1 838.9 840.7 843.5 845.3 846.4 848.9 849.5 846.7 851.8 853.6 856.1 858.0 859.0 860.6 861.7 862.9 864.1 863.4 866.5 867.3 867.4 867.2 867.2 866.0 864.8 862.9 860.9 857.8 855.3 852.6

495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510

STA 495 - STA 510

HUBS NOT REFERENCED
Sta. 516+66.78
Sta. 510+87.87
P.C. Sta. 517+50.50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68

For Shoulder and Taper Detail See Sht. No. 16

Woven 4 Strand Barbed Wire
8" Gas Line
601 RCP Type B 33"x12"x3'-0" = 44 Cu Yds
Pasture
Woven 4 Strand Barbed Wire
Corn Field
LA R/W
Cultivated
667 Jute Matting 7'-6" Wide
Sta. 514+00 ℄ Median Crossover
6" Underdrain
10-D
Sta. 513+69.70 13' Lt.
11-D
14-D
Sta. 514+35.65 30' Lt. Begin Taper
Sta. 516+55.65 End Taper
Sta. 513+92.15 24.95' Lt.
15-D
54"x15" Tide
54" Conduit 15" Conduit
Sta. 511+44.35 Begin Taper
Sta. 513+47.35 End Taper
23°20'
Sta. 514+16 See Sht. No. 45B
Sta. 514+30.30 13' Rt.
Sta. 514+57.85 24.95' Rt.
S 15° 34' 45" W.
667 Jute Matting 7'-6" Wide
℄ SURVEY CLE. 275
S 15° 34' 45" W.
90° Tan. to Curve
12-D
13-D
17-D
667 Jute Matting 7'-6" Wide
601 RCP Type B 10'x3'0"x2'0" = 22 Cu Yds
660 Sodding 1'-6" Wide
601 Riprap
P.C. Sta. 517+50.50
Wooded Area
18" Stump
Woven 4 Strand Barbed Wire
℄ SURVEY
LA R/W
MATCH LINE STA. 510+00
MATCH LINE STA. 525+00
Sta. 523+75.00 Begin 400' Taper
Sta. 524+71.00
110'
111'
96'
151'

CURVE DATA
P.I. = Sta. 532+30.07
Δ = 13° 44' 35"
D = 0° 28' 00" Rt.
R = 12,277.67'
L = 2,944.94'
T = 1,479.57'
E = 88.83'

B.M. Spike in 18" Stump
155' Rt. Sta. 521+20
Elev. 877.27

For Quantities See Sheet No 49
For Section M-M See Sht. No. 16

838.31 838.60 838.90 839.50 840.10 840.70 841.30 841.90 842.50 843.10 843.70 844.30 844.90 845.50 846.10 846.71 847.30 847.90 848.50 849.10 849.70 850.30 850.90 851.50 852.10 852.72 853.30 853.90 854.50 855.10 855.70 856.30

880 870 860 850 840 830 820

900 V.C.
PVT Sta. 510+50 Elev. 838.90
6" Unclassified Underdrain Left Side Only
Sta. 513+23 68' Lt. End 6" Underdrain Elev. 837.62
Sta. 513+16 68' Rt. IE 6" Underdrain Elev. 837.53
Sta. 513+12 68' Rt. End 6" Underdrain IE Elev. 837.48
Sta. 510+00 68' Lt & Rt. IE 6" Underdrain Elev. 835.08
Sta. 511+00 68' Lt & Rt. IE 6" Underdrain Elev. 836.27
Sta. 513+16.105' Rt. Outlet 6" Underdrain Elev. 837.20
Sta. 513+27.110' Lt. Outlet 6" Underdrain Elev. 836.00
6" Unclassified Underdrain Right Side Only
Sta. 513+27 68' Lt. IE 6" Underdrain Elev. 837.66
Sta. 514+50, 4' Rt. 604 Std. No. 4 C.B. IE Grate = 839.75 Inv. 15" = 836.05
Sta. 516+50 68' Rt. IE 6" Underdrain Elev. 841.54
Sta. 517+00 68' Rt. IE 6" Underdrain Elev. 843.47
6" Unclassified Underdrain
+1.20%
603.34' x 15" Conduit Type "C" 706.01 E.S. or 706.02 or 706.08 E.S. 707.13 with Cl. "B" Bedding @ 20.00%
Elev. 829.76 Tee 54x15
6" Unclassified Underdrain
Sta. 519+00 68' Lt. IE 6" Underdrain Elev. 845.87
Sta. 518+50 68' Lt. IE 6" Underdrain Elev. 843.94
Sta. 525+00 68' Rt. IE 6" Underdrain Elev. 853.07
Sta. 523+75 68' Lt & Rt. IE 6" Underdrain Elev. 851.57
Sta. 525+00 70.60 Lt. IE 6" Underdrain Elev. 853.03

203 Excavation	117,546	Cu. Yd.
203 Embankment	16,824	Cu. Yd.
659 Seeding & Mulching	90,835	Sq. Yd.

CALC. DE DATE 6/20/67
CHK'D REA DATE 6/29/167

STA. 510 - STA 525

526 502.7 848.1 843.5 832/836 837.7 832.9 838.7 837.9 +95 832 +45 828.3 +10 829.2 829.4 836.5 837.7 841.4 845.0 845.5 850.4 852.1 854.2 856.4 859.4 861.3 867.8 863.4 864.4 868.0 866.4 866.5 867.6 869.8 870.3 872.1

510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525

ESTIMATED QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

49
638

CLERMONT COUNTY
CLE-275-6.68

DRAINAGE

REF. NO.	STATION TO STATION	SIDE	601 Rock Channel Protection Type B Cu. Yds.	601 Concrete Riprap Sq. Yds.	602 Concrete Masonry Cu. Yds.	603 6" Conduit Type B Lin. Ft.	603 6" Conduit Type F Lin. Ft.	603 15" Conduit Type C 706.01 ES or 706.02 or 706.04 ES Lin. Ft.	603 21" Conduit Type C Lin. Ft.	603 33" Conduit Type A 706.02 or 706.03 Lin. Ft.	603 33" Conduit Type C Lin. Ft.	603 54" Conduit Type A 706.02 CL III Lin. Ft.	604 Std. No. 4 Catch Basin Each	604 Std. No. 1-A Manhole Each	605 6" Underdrain Shallow Lin. Ft.	605 6" Unclassified Underdrain 709.01 Type III or 707.12 Lin. Ft.	605 6" Underdrain 707.01 Type III or 707.12 Lin. Ft.	660 Sodding Sq. Yds.	667 Jute Matting Sq. Yds.	54" x 15" Tee	6"x6"x6" Wye	6"x6"x90° Bend	SEE SHEET NO.
	495+00 — 510+00																						
1-D	495+00 — 498+96	Lt															396						
2-D	499+00 — 510+00	Lt				58	10										1100					1	
3-D	495+00 — 498+96	Rt					20									126	286				1		
4-D	499+00 — 510+00	Rt				58	10										1100					1	
5-D	495+00 — 497+50	Rt									250			1									42
6-D	497+50	Rt		30	0.55					82								12					457
7-D	497+50 — 499+00	Rt							152				1										42
8-D	Not Used																						
9-D	Not Used																						
	510+00 — 525+00																						
10-D	510+00 — 513+23	Lt														223	100						
10-D	513+27 — 525+00	Lt					10								555	50	600		1				
12-D	510+00 — 513+12	Rt														212	100						
13-D	513+16 — 525+00	Rt					10								366	50	800		1				
14-D	514+16	℄	44	28	1.92							260						9		1			458
15-D	514+16 — 514+50	℄						34					1						125				98
16-D	514+78 — 517+00	Lt																	209				
17-D	514+25 — 514+30	Rt	22																				
18-D	514+50 — 515+00	Rt																	46				
19-D	Not Used																						
TOTAL			66	58	2.47	116	60	34	152	82	250	260	2	1	921	661	4482	21	380				

CALC. DE DATE 4/28/69
CHK'D AB DATE 4/28/69

ROADWAY & PAVEMENT

REF. NO.	STATION TO STATION	SIDE	301 8"-Bit. Aggregate Base Cu. Yds.	301 3"-Bit. Aggregate Base Cu. Yds.	304 6" Aggregate Base Cu. Yds.	310 Subbase Cu. Yds.	402 1½" Asphalt Concrete Cu. Yds.	404 1½" Asphalt Concrete Cu. Yds.	409 Seal Coat Bituminous Gals.	409 Seal Coat Cover Aggregate Cu. Yds.	SEE SHEET NO.
	ROADWAY										
	495+00 — 510+00										
1-R	Not Used										
2-R	Not Used										
	510+00 — 525+00										
	PAVEMENT										
	495+00 — 510+00		1888	389	704	2712	389	278	1400	37	
1-P	511+44.35 — 516+55.65	Lt & Rt		56	118	119			199	5	
	510+00 — 525+00		1888	377	683	2471	389	278	1358	36	
TOTAL			4598		1505	5302	778	556	2957	78	

QUANTITIES
STA. 495+00 ~ STA. 525+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

50
638

CLERMONT COUNTY
CLE. 275-6.68

REFERENCE M.P.C. STA. 532+22.97
30" Poplar
24" Mulberry
12" Walnut

REFERENCE P.I. STA. 532+30.07
18" Locust
24" Poplar
Cinti. Batavia Pike

Pasture
Woven Wire & Std Barbed Wire
Dirt
Pond
Corn Field
Cultivated
Tangent to Curve
Abandoned Septic Tank
Septic Tanks
Chicken House
Leach Area
Barn
Gravel
Lawn
Wooded Area
Hay Field
Open Field
Clump
Temporary Easement
Temporary Road
Existing R/W
Cinti. Batavia Pike
Well
Stone Pillars
Concrete Slab
Conc. Walk
Conc. Curb
Asphalt Pavement
Shingle
Drive
Curve
Tangent
Bridge
Stream
Ditch
Fence
Power Pole
Guy Wire
Telephone Pole
Manhole
Catch Basin
Inlet
Gate
Mail Box
Water Meter
Water Valve
Gas Valve
Gas Line
Water Line
Sanitary Sewer
Storm Sewer
Underground Telephone
Underground Electric
Overhead Electric
Overhead Telephone
Underground Cable TV
Underground Gas
Underground Water
Underground Sanitary
Underground Storm
Underground Telephone
Underground Electric
Overhead Electric
Overhead Telephone
Underground Cable TV
Underground Gas
Underground Water
Underground Sanitary
Underground Storm

MATCH LINE STA. 525+00
MATCH LINE STA. 540+00
LA R/W
RAMP "H"
RAMP "F"
Sta. 525+67.00 End Taper
Sta. 528+78.36 Begin Taper
Sta. 529+78.36 End Taper
Sta. 532+25.00 "H"
Sta. 535+75.00 "H"
Sta. 538+73.00 "H"
Sta. 539+76.00
Sta. 530+00.00 Cincinnati-Batavia Pike
Sta. 532+79.25 = 1008
S. 15° 34' 45" W.
S. 29° 19' 20" W.
90° 11' 37"
Sta. 528+64 21' Lt See Sheet No. 459
Sta. 528+66 ℄ See Sheet No. 459
Sta. 529+00 ℄ See Sheet No. 458
Sta. 534+30.22' Lt See Sheet No. 303
Sta. 534+50 ℄ See Sheet No. 303
Sta. 535+77.79 75.10' Lt See Sheet No. 304
Sta. 535+77.79 75.10' Lt See Sheet No. 304
Sta. 535+71.79 22' Lt See Sheet No. 304
Sta. 536+81.15 79.10' Rt See Sheet No. 304
For Continuation of Ramp "H" See Sh. No. 81
For Continuation of Ramp "F" See Sh. No. 77
For Cincinnati-Batavia Pike Plan & Profile See Sheet No. 68
For Quantities See Sheet No. 80
B.M. Spike in Power Pole 390' Rt. Sta. 533+75 Elev. 883.89
Sta. 536+78.36
Sta. 535+75.00
Sta. 534+50 ℄
Sta. 535+71.79 22' Lt
Sta. 535+77.79 75.10' Lt
Sta. 536+81.15 79.10' Rt
Sta. 538+73.00 "H"
Sta. 539+76.00
Sta. 540+00 38.75' Lt & Rt
Sta. 537+25 68' Rt
Sta. 537+20 Ramp F 2' Rt
Sta. 535+90 68' Lt
Sta. 535+90 93' Lt
Sta. 535+75 93' Lt
Sta. 535+88 38.75' Lt
Sta. 535+80 38.75' Lt
Sta. 535+75 38.75' Lt
Sta. 535+77.79 75.10' Lt
Sta. 534+30 22' Lt
Sta. 534+50 ℄
Sta. 536+81.15 79.10' Rt
Sta. 540+00 38.75' Lt & Rt
Sta. 540+00 68' Lt & Rt
Sta. 537+25 68' Rt
Sta. 537+20 Ramp F 2' Rt
Sta. 535+90 68' Lt
Sta. 535+90 93' Lt
Sta. 535+75 93' Lt
Sta. 535+88 38.75' Lt
Sta. 535+80 38.75' Lt
Sta. 535+75 38.75' Lt
Sta. 528+83 68.6' Rt
Sta. 528+66 21' Lt
Sta. 528+75 38.75' Lt
Sta. 528+91 78.75' Lt
Sta. 529+00 ℄
Sta. 532+25 80' Rt
Sta. 525+00 68' Rt
Sta. 528+62 68' Rt
Sta. 528+25 68' Rt
Sta. 527+50 75.81' Lt
Sta. 528+62 78.13' Lt
Sta. 528+70 68' Rt
Sta. 528+68 108' Rt
Sta. 525+00 70.60' Lt
Sta. 528+68 38.75' Rt
Sta. 529+20 38.75' Rt
Sta. 529+78.36 80' Rt
Sta. 528+70 78.31' Lt
Sta. 528+68 113' Lt
Sta. 525+00 68' Lt
Sta. 534+20 22' Lt
Sta. 534+50 ℄
Sta. 536+81.15 79.10' Rt
Sta. 540+00 38.75' Lt & Rt
Sta. 540+00 68' Lt & Rt
Sta. 537+25 68' Rt
Sta. 537+20 Ramp F 2' Rt
Sta. 535+90 68' Lt
Sta. 535+90 93' Lt
Sta. 535+75 93' Lt
Sta. 535+88 38.75' Lt
Sta. 535+80 38.75' Lt
Sta. 535+75 38.75' Lt
Sta. 528+83 68.6' Rt
Sta. 528+66 21' Lt
Sta. 528+75 38.75' Lt
Sta. 528+91 78.75' Lt
Sta. 529+00 ℄
Sta. 532+25 80' Rt
Sta. 525+00 68' Rt
Sta. 528+62 68' Rt
Sta. 528+25 68' Rt
Sta. 527+50 75.81' Lt
Sta. 528+62 78.13' Lt
Sta. 528+70 68' Rt
Sta. 528+68 108' Rt
Sta. 525+00 70.60' Lt
Sta. 528+68 38.75' Rt
Sta. 529+20 38.75' Rt
Sta. 529+78.36 80' Rt
Sta. 528+70 78.31' Lt
Sta. 528+68 113' Lt
Sta. 525+00 68' Lt

667 Jute Matting 11'-0" Wide
601 R.C.P. Type B 37'+9'+2'-0"=25 Cu Yds
601 R.C.P. Type B 28'+8'+2'-0"=17 Cu Yds
603 30"x18" Conduit Type C Cl. B Bedding @ 1.70%
603 42"x15" Conduit Type C Cl. B Bedding @ 1.00%
603 54"x21" Conduit Type C Cl. B Bedding @ 0.93%
603 148"x15" Conduit Type C Cl. B Bedding @ 0.96%
603 146"x12" Conduit Type B Cl. B Bedding @ 3.02%
6" Unclassified Underdrain
604 Std. No. 1-A M.H.
604 Std. No. 4 C.B.
604 Std. No. 1 M.H.
604 Std. No. 5 C.B.
604 Std. No. 6 C.B.
604 Std. No. 1 M.H.
604 Std. No. 6 C.B.
604 Std. No. 6 C.B. as per plan
Existing Cincinnati-Batavia Pike
+1.20%
0.93%
0.96%
0.96%
3.02%
Note: The Existing Pond Left of Sta 529+00 shall be drained prior to the placement of Roadway Embankment in the Pond Area. The Method used to drain Pond and the rate of Discharge of the water shall be subject to approval of the Engineer. Payment for the above work shall be included in the unit price bid per Item 203 Embankment.
Note: The Existing Pavement Outside the Construction Limits but within the Fill Limits of the Right of Ramp "F" Sta. 535+80 shall be Removed and Earth Backfilled. Payment for Removal shall be included in Item 203 Excavation not including Embankment. Earth Backfill shall be included in Item 203 Embankment. For Quantities see Sheet No. 304

203 Excavation	115,603	Cu Yds.
203 Embankment	1,231	Cu Yds.
659 Seeding & Mulching	90,646	Sq. Yds.

℄ SURVEY
CURVE DATA
P.I. Sta. 532+30.07
Δ = 13° 44' 35"
D_c = 0° 28' 00"
R = 12,277.67'
L = 2,944.94'
T = 1,479.57'
E = 88.83'
P.C.C. Sta. 532+26" "F"
P.C.C. Sta. 537+29.47 "F"
Nose Sta. 536+73.52 "F"

CALC. DE DATE 6/26/67
CHK'D REA DATE 6/29/67

STA 525 - STA 540

ESTIMATED QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

51
638

CLERMONT COUNTY
CLE-275-6.68

DRAINAGE

REF. NO.	STATION TO STATION	SIDE	601 Rock Channel Protection Type B Cu. Yds.	601 Concrete Riprap Sq. Yds.	602 Concrete Masonry Cu. Yds.	603 6" Conduit Type B Lin. Ft.	603 6" Conduit Type F Lin. Ft.	603 12" Conduit Type B Lin. Ft.	603 15" Conduit Type C Lin. Ft.	603 18" Conduit Type C Lin. Ft.	603 21" Conduit Type C Lin. Ft.	603 36" Conduit Type A 706.02 or 706.08 Lin. Ft.	604 Std. No. 1-A Manhole Each	604 Std. No. 1 Manhole Each	604 Std. No. 4 Catch Basin Each	604 Std. No. 5 Catch Basin Each	604 Std. No. 6 Catch Basin Each	605 6" Underdrain Deep Lin. Ft.	605 6" Unclassified Underdrain 707.01 Type III or 707.12 Lin. Ft.	605 6" Underdrain 707.01 Type III or 707.12 Lin. Ft.	604 Std. No. 6 Catch Basin as per plan	660 Sodding Sq. Yds.	667 Jute Matting Sq. Yds.	6"x6"x60° Bend	6"x6"x90° Bend	6"x6"x 6" Tee	6"x6"x60° Wye	SEE SHEET NO.
	525+00 — 540+00																											
1-D	525+00 — 528+62	Lt.																	112	250								
2-D	528+70 — 535+75	Lt.					10											739									1	
3-D	535+80 — 540+00	Lt.				25												420								2		
4-D	528+66 — 535+75	Lt.					10											708						1				
5-D	535+80 — 540+00	Lt.					10											430						1				
6-D	528+62 — 540+00	Rt.					20											1154									1	
7-D	525+00 — 528+62	Rt.																	37	325								
8-D	528+70 — 532+25	Rt.					10											382									1	
9-D	537+25 — 540+00	Rt.				44												275							1	1		
10-D	528+66	℄	11	47	1.18							220	1									17						457
11-D	528+66 — 529+00	Lt.							42						1								125					20
12-D	528+66 — 534+30	Lt.									564			1														50
13-D	534+30 — 534+50	Lt.								30						1							125					50
14-D	534+30 — 535+77.79	Lt.							148					1														50
15-D	535+77.79	Lt.						54													1							304
16-D	535+77.80 — 536+81.15	Rt.						146									1											50
17-D	528+70 — 529+05	Lt.	25																									
18-D	529+05 — 529+50	Lt.																					59					
19-D	528+73 — 534+50	Rt.																					697					
20-D	533+65 — 533+73	Rt.	17																									
TOTAL			53	47	1.18	69	60	200	190	30	564	220	1	2	1	1	1	4108	149	575	1	17	1006					

CALC. DC DATE 6/26/67

CHK'D AB DATE 4/28/69

ROADWAY & PAVEMENT

REF. NO.	STATION TO STATION	SIDE	202 Existing Structures Removed Lump Sum	SPL Cleaning of Privy Vaults Each	SPL Cleaning & Disposal of Septic Tank Each	606 Guard Rail Type 5 Lin. Ft.	606 Barrier Guard Rail Type 5 Lin. Ft.	606 Anchor Assembly Each	606 Approach End Assembly Single Rail Each	606 Approach End Assembly Barrier Rail Each	301 8" Bit. Aggregate Base Cu. Yds.	301 3" Bit. Aggregate Base Cu. Yds.	304 6" Aggregate Base Cu. Yds.	310 Subbase Cu. Yds.	402 1½" Asphalt Concrete Cu. Yds.	404 1½" Asphalt Concrete Cu. Yds.	409 Seal Coat Bituminous Gals.	409 Seal Coat Cover Aggregate Cu. Yds.	SEE SHEET NO.
	ROADWAY																		
1-R	531+98.50 — 533+73.50	Lt.				175		1	1										
2-R	531+37.50 — 534+12.50	Lt. & Rt.				450	50			2									
3-R	531+75 — 533+50	Rt.				175		1	1										
4-R	531+21	Lt.			1														
5-R	531+35	Lt.			1														
6-R	531+44	Lt.			1														
7-R	530+97	Lt.		1															
8-R	531+07	Rt.			1														
9-R	531+40 — 531+50	Rt.	LS																
10-R	Not Used																		
	PAVEMENT																		
	525+00 — 540+00										1888	175	310	2869	389	278	629	17	
TOTAL			LS	1	4	800	50	2	2	2	2063		310	2869	389	278	629	17	

QUANTITIES
STA. 525+00 - STA. 540+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

52
638

CLERMONT COUNTY
CLE. - 275- 6.68

HUBS NOT REFERENCED
Sta. 551 + 40.31
Sta. 549 + 83.43

REFERENCE P.O.T STA. 550+80.14
84°41'10" Rt.
Cross Notch
S.R 32 79+00

For Continuation of Ramp "I" See Sht. No. 81

For Continuation of Ramp "M" See Sht. No. 89

For Continuation of Ramp "K" See Sht. No. 85

For Quantities See Sheet No. 53

For S.R. 32 Plan & Profile See Sheet No's. 72

For Continuation of Ramp G Sta. 543+88 116 Lt. See Sheet No. 77

Ramp G Sta. 547+00 142 Rt. See Sheet No. 466

Ramp G Sta. 547+00 142 Rt. See Sheet No. 466

Ramp K Sta. 569+70 27 Rt. See Sheet No. 466-468

Ramp G Sta. 547+79 23 Lt. See Sheet No. 466

S.R. 32 Sta. 81+79.83 5 Rt. See Sht. No. 468

Sta. 543+46 Lt. See Sheet No. 466

Sta. 552+43 ℄ See Sht. No. 468

Sta. 553+32 ℄ See Sheet No. 313

Sta. 558+79.32 M Sta. 79+12.47 S.R. 32

Sta. 79+06 79' Rt. See Sht. No. 468

MATCH LINE STA. 540+00

MATCH LINE STA. 555+00

℄ SURVEY
CURVE DATA
PI = Sta. 532+30.07
Δ = 13°-44'-35"
D = 0°-28'-00" Rt.
R = 12,277.67'
Lc = 2,944.94'
T = 1,479.57'
E = 88.83'

B.M. Spike in Top of R/W North Side of S.R. 32 Right of Sta. 500+00, 200' Right Elev. 870.15

CLE-275-1042 Lt. & Rt.

PROPOSED STRUCTURE

TYPE: Continuous Steel Beam with Reinforced Concrete Deck & Substructure
SPAN: Left Bridge 47'-9", 68'-0", 68'-0", 47'-9"
Right Bridge 53'-6", 76'-3", 68'-0", 47'-9"
ROADWAY: Left Bridge Varies f-f Parapet
Right Bridge Varies f-f Parapet
LOAD FREQUENCY: CF 2,000(57) Adequate for A.S.S.H.O. Alternate Loading
WEARING SURFACE: 1" Monolithic Concrete
APPROACH SLABS: AS-1-G7(25' Long)
ALIGNMENT: Tangent, Skew: 5°18'-30" R.F.
CURBS: 1'-0" Each Side
SUPERELEVATION: None

Sta. 540+00, 38.75' Lt. & Rt. At. 6" Underdrain Elev. 869.58
Sta. 541+27.98, 68' Lt. 6" Underdrain At Elev. 869.15
Sta. 540+00, 68' Lt. & Rt. 6" Underdrain At Elev. 867.61
+1.20 %
18" Conduit
6" Unclassified Underdrain
Sta. 544+00 6" Underdrain 73.44' Lt. At. Elev. 872.33 68' Rt. At. Elev. 872.91
Sta. 544+50 6" Underdrain 74.44' Lt. At. Elev. 875.04 68' Rt. At. Elev. 875.14
Sta. 545+50 38.75' Lt. & Rt. End At. 6" Underdrain Elev. 876.13
Sta. 547+29.98, 68' Rt. End 6" Underdrain At Elev. 878.50
Sta. 547+27.98, 80' Lt. End 6" Underdrain At Elev. 878.28
P.U.C. Sta. 548+00 Elev. 883.90
Left Bridge Sta. 549+61.91
Right Bridge Sta. 549+47.91
S.R. 32 Sta. 78+93.5 77' Rt. 604, Std. No. 2 M.H. & Drop Pipe Top Elev. : 865.52 Inv. 12" : 861.50 Inv. 33" : 849.82
Sta. 551+97.93 Lt. & Rt. Bridge
Bridge Limits 236.02' Lt. Bridge 250.02' Rt. Bridge
P.U.C. Sta. 552+00 Elev. 888.70
+0.60 %
2.00 %
12"
Sta. 552+43 ℄ 604, Std. No. 2-2 D.C.B. At Grate : 884.06 Inv. 12" : 881.56
Sta. 552+11.80 Rt. Begin 6" Underdrain At Elev. 884.95
Sta. 553+33.94, 75.12' Lt. Outlet 6" Underdrain At Elev. 885.40
Sta. 553+33.94, 16' Lt. 6" Underdrain At Elev. 885.50
Sta. 555+00, 68' Lt. 6" Underdrain At Elev. 885.90
Sta. 553+18.40, 80' Rt. 6" Underdrain At Elev. 884.70 For continuation of Underdrain see Ramp "K" Sheet No. 87
℄ S.R. 32
800' V.C.

203 Excavation	51,216	Cu. Yds.
203 Embankment	152,500	Cu. Yds.
659 Seeding & Mulching	36,703	Sq. Yds.

CALC. DE DATE 6/22/67
CHK'D REA DATE 6/23/67

STA. 540 - STA. 555

ESTIMATED QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

53
638

CLERMONT COUNTY
CLE.-275-6.68

DRAINAGE

REF. NO.	STATION TO STATION	SIDE	603 6" Conduit Type F Lin. Ft.	603 12" Conduit Type C Lin. Ft.	603 12" Conduit Type F Lin. Ft.	603 18" Conduit Type B 706.02 Cl. III or 706.05 Lin. Ft.	604 Std. No. 2-2-B Catch Basin Each	604 Std. No. 5 Catch Basin Each	605 6" Unclassified Underdrain 707.01 Type II or 707.12 Lin. Ft.	605 6" Underdrain Deep Lin. Ft.	605 6" Underdrain Shallow Lin. Ft.	660 Sodding For Special Berm and Slope Protection Sq. Yds.	667 Jute Matting Sq. Yds.	6"x6"x90° Bend	12"x25° Bend	SEE SHEET NO.
	540+00 555+00															
1-D	540+00 547+27.93	Lt.							50	400	278					
2-D	533+34 555+00	Lt.	8								166			1		
3-D	540+00 545+50	Lt.								550						
4-D	540+00 545+50	Rt.								550						
5-D	540+00 547+29.98	Rt.							50	400	280					
6-D	552+11 553+18.40	Rt.									107					
7-D	543+26 543+88 RAMP 6	Lt. & Rt.				384		1					250			466
8-D	78+95.5 SR.32 552+43	Rt.		44	42		1						125		2	468
9-D	Not Used															
10-D	549+38	Lt.										82				
11-D	549+40 549+88	Lt.											191			
12-D	551+65 552+71	Lt.											523			
13-D	549+42	Rt.										102				
14-D	549+45 549+95	Rt.											354			
15-D	551+72 552+92	Rt.											925			
			8	44	42	384	1	1	100	1900	831	184	2368			

CALC. DE DATE 6/26/62
CHK'D AB DATE 4/28/62

ROADWAY & PAVEMENT

REF. NO.	STATION TO STATION	SIDE	202 Existing Structures Removed Lump Sum	606 Guard Rail Type 5 Lin. Ft.	606 Barrier Guard Rail Type 5 Lin. Ft.	606 Approach End Assembly Single Rail Each	606 Bridge Terminal Assembly Each	606 Approach End Assembly Barrier Rail Each	301 8" Bit. Aggregate Base Cu. Yds.	301 3" Bit. Aggregate Base Cu. Yds.	304 Aggregate Base Cu. Yds.	310 Subbase Cu. Yds.	402 1¾" Asphalt Concrete Cu. Yds.	404 1½" Asphalt Concrete Cu. Yds.	409 Seal Coat Bituminous Gals.	409 Seal Coat Cover Aggregate Cu. Yds.	611 Reinf. Concrete Approach Slab T=13" Sq. Yds.	SEE SHEET NO.
	ROADWAY																	
1-R	546+61.11 549+36.11	Lt. & Rt.		175	100		1	1										
2-R	552+09.07 554+84.07	Lt. & Rt.		175	100		1	1										
3-R	552+03.0 553+53.0	Lt.		150		1	1											
4-R	547+94.6 549+44.6	Rt.		150		1	1											
5-R	543+14 543+38	Lt.	L.S.															
	PAVEMENT																	
	540+00 555+00								1519	172	306	1875	313	224	618	16		
1-P	549+36.91 549+61.91	Lt.										20					102	
2-P	549+22.91 549+47.91	Rt.										20					101	
3-P	551+97.93 552+22.93	Lt.										22					108	
4-P	551+97.93 552+22.93	Rt.										20					100	
			L.S.	650	200	2	4	2	1691		306	1957	313	224	618	16	411	

CHK'D AB DATE 4/28/62

QUANTITIES
STA. 540+00 - STA. 555+00

HUBS NOT REFERENCED
Sta. 556 + 32.58
Sta. 559 + 03.83
Sta. 562 + 27.17
Sta. 564 + 54.40
Sta. 567 + 65.76

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE. - 275 - 6.68

MATCH LINE STA. 555+00

MATCH LINE STA. 570+00

For Continuation of Ramp "L" See Sht. No. 89

For Continuation of Ramp "K" See Sht. No. 85

For Continuation of Ramp "J" See Sht. No. 85

For Quantities See Ramps J & L 89 - 92

Indicates Ramp No. Curve Data

Sta 555+70 ℄
604 Std. No. 4 C.B.
℄ Grate = 886.02
Inv. 15" = 883.10
Inv. 12" = 883.35

Sta. 555+75 85' Rt.
℄ 6" Underdrain Elev. 886.19

Sta. 555+00 68' Lt.
℄ 6" Underdrain
Elev. 885.90

P.V.T. Sta. 556+00
Elev. 891.10

800' V.C.

Sta. 556+25 79.41' Rt.
℄ 6" Underdrain Elev. 886.52

+0.60 %

Sta. 561+70.30 68' Rt.
℄ 6" Underdrain Elev. 890.06

Sta. 562+95.27 68' Lt.
End 6" Underdrain ℄ Elev. 890.71

Sta. 564+75 68' Rt.
℄ 6" Underdrain Elev. 891.79

Sta. 565+00 ℄
604 Std. No. 4 C.B.
℄ Grate = 892.08
Inv. 15" = 889.08

Sta. 565+22 38.75' Rt.
℄ 6" Underdrain Elev. 892.08

Sta. 565+00 ℄
Outlet 6" Underdrain Elev. 890.50

Sta. 568+75 38.75' Rt.
℄ 6" Underdrain Elev. 894.28

Sta. 567+87 68' Rt.
End 6" Underdrain Elev. 895.96

Sta. 570+00 38.75' Rt.
℄ 6" Underdrain Elev. 894.95

Sta. 568+75 80' Lt.
℄ 6" Underdrain Elev. 892.75

Sta. 569+25.27 80' Lt.
℄ 6" Underdrain Elev. 893.97

Sta. 570+00 79.43' Lt.
℄ 6" Underdrain Elev. 894.95

Sta. 567+50 80' Lt.
℄ 6" Underdrain Elev. 892.50
For Continuation of Underdrain
See Ramp L Sht. No. 90

℄ Nicholtz Road

Existing 8" Water Main

Existing 16" Water Main in 36" Casing

Existing 8" Sanitary Sewer

84" Conduit

8" Sanitary Sewer

B.M. Spike in 12" Ash 180' Rt. Sta. 556+15 Elev. 841.84

B.M. X-Notch in Flange of F.H. 190' Rt. Sta. 562+25 Elev. 863.99

203 Excavation	1,101	Cu. Yds.
203 Embankment	410,831	Cu. Yds.
659 Seeding & Mulching	39,257	Sq. Yds.

CALC. DE DATE 6/26/67

CHK'D REA DATE 6/29/67

STA. 555 - STA. 570

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68

℄ SURVEY CURVE DATA

PI Sta. 579+27.27
Δ = 22° 41' 10" Lt
D = 1° 00' 00"
R = 5729.58'
L = 2268.61'
T = 1,149.36'
E = 114.14'

REFERENCE P.I. STA. 579+27.27
94.91' 30" Hickory
74.35' 12" Hickory
21"
59.86' 24" Wild Cherry
83.15' 24" Hickory
Hub

Cultivated (Hay Field)

END PROJECT STA. 579+87.60

I-275-2(7)32 I-275-2(6)36

Sta. 570+35.27 Taper
LA R/W
Corn Field
Cut Off Wall
601, Riprap
Cut Off Wall
Woven Wire
St. Mt. 0239
4 Std. Barbed Wire
Dirt Field Drive
Corn Field
Woven Wire
Std. Barbed Wire
Constructed Under Separate Contract
MATCH LINE STA 570+00
5'
66'
6" Underdrain
90° Tan. to Curve
570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585
Sta. 575+00 ℄ See Sht. No. 327
℄ SURVEY
603.10' x 6" Conduit Type F
S. 29° 19' 20" W.
30° Tan. to Curve
Sta. 576+80 ℄ See Sht. No. 461
Wooded Area
Woven Wire
90° Tan. to Curve
6" Underdrain
Cultivated
Corn Field
660 Sodding
Wooded Area
15" Conduit
21" Conduit
S. 6° 38' 10" W.
Sta. 579+87.60 End 1200' Taper
Evergreens
Dirt Field Drive
601 RCP Type B
6'-0" x 4'-0" x 2'-0" 2 Cu. Yd.
B.M. Spike in 15" Wild Cherry 100 Rt. Sta. 575+10 Elev. 879.93
Sta. 575+60.56
Sta. 578+91.60
601 RCP Type B
LA R/W
Corn Field
Wooded Area
END Grading STA. 582+15

NOTES:
For Typical Section of Adjoining Pavement see Sheet No. 6
For Superelevation Table see Sheet No. 12
For Quantities see Sheet No. 56

899.50 899.80 900.10 900.40 900.70 901.00 901.30 901.60 901.90 902.20 902.50 902.80 903.10 903.40 903.70 904.00 904.30 904.60 904.90 905.20 905.50 903.6 903.2

910 900 890 880 870 860 850

Sta. 570+00, 38.75' Rt.
6" Underdrain
I.E. Elev. 894.95

Sta. 570+00, 79.43' Lt.
6" Underdrain
I.E. Elev. 893.52

Sta. 570+95.27, 68' Lt.
6" Underdrain
I.E. Elev. 894.57

Sta. 574+96, 68' Lt.
End 6" Underdrain
I.E. Elev. 896.98

Sta. 574+86, 92' Lt.
Outlet 6" Underdrain
I.E. Elev. 896.50

+0.60%

Sta. 575+22, 38.75' Rt.
6" Underdrain
I.E. Elev. 898.08

Sta. 575+18, 38.75' Rt.
6" Underdrain
I.E. Elev. 898.06

Sta. 575+00, 68' Lt.
6" Underdrain
I.E. Elev. 897.00

27" Conduit

Sta. 575+00 ℄
604, Std. No. 4 C.B.
I.E. Grate = 898.08
Inv. 6" = 897.00
Inv. 15" = 895.58

3.5:1

Sta. 580+00, 68' Lt.
6" Underdrain
I.E. Elev. 900.00
Plug

10:1

Sta. 580+00, 38.75' Rt.
6" Underdrain
I.E. Elev. 900.95
Plug

Note: Earthwork and Underdrains in this Area may be performed under Project CLE-HAM-275-10.89 -38.96.

910 900 890 880 870 860 850

878.1 879.9 880.5 881.4 881.8 881.6 881.9 882.7 880.7 880.7 879.8 879.6 878.6 878.9 878.6 876.5 878.2 878.4 878.7 880.4 883.33 885.2 887.8 891.0 892.3 895.7 899.0 904.9 908.5 910.9

570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585

STA. 570 – STA. 585

203 Excavation	1,953 Cu. Yds.
203 Embankment	175,469 Cu. Yds.
659 Seeding & Mulching	34,500 Sq. Yds.

CALC. DE DATE 6/12/67
CHK'D REA DATE 6/29/67

ESTIMATED QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

5G 638

CLERMONT COUNTY
CLE.-275-6.68

DRAINAGE

REF. NO.	STATION TO STATION		SIDE	601 Rock Channel Protection Type B Cu. Yds.	601 Concrete Riprap Sq. Yds.	602 Concrete Masonry Cu. Yds.	603 6" Conduit Type "F" Lin. Ft.	603 12" Conduit Type "B" Lin. Ft.	603 15" Conduit Type "B" Lin. Ft.	603 15" Conduit Type "F" Lin. Ft.	603 27" Conduit Type "A" 706.02.01 Lin. Ft.	603 84" Conduit Type "A" 707.03 Ga. 8-5 Lin. Ft.	604 Std. No. 4 Catch Basin Each	604 Std. No. 6 Catch Basin Each	605 6" Underdrain Shallow Lin. Ft.	660 Sodding Sq. Yds.	667 Jute Matting Sq. Yds.	6"x6"x60° Bend	6"x6"x30° Bend	15"x25° Bend	SEE SHEET NO.
	555+00	570+00																		
1-D	555+00	562+95.27	Lt.				10								786					
2-D	567+50	570+00	Lt.												250					
3-D	565+00	570+00	Rt.				10								514			1		
4-D	555+73.09	567+87.60	Rt.				20								1202				1	
5-D	555+70	555+67 Ramp M	Lt.	2		0.26			134				1			1	125			470
6-D	555+70	555+74.27	Rt.					84						1						470
7-D	559+38		℄	67	60	7.40						806				25				460
8-D	565+00		Rt.	2		0.26			118	50			1			1	125		2	323
9-D	Not Used																			
10-D	Not Used																			
	570+00	585+00																		
11-D	570+00	574+96	Lt.												496					
12-D	574+86	580+00	Lt.				10								518			1		
13-D	570+00	575+18	Rt.				10								508					
14-D	575+00	580+00	Rt.				10								512			1		
15-D	575+00		Rt.	2		0.26			100	44			1			1	125		2	327
16-D	576+80		℄	10	14	1.10					280					9				461
17-D	Not Used																			
18-D	Not Used																			
TOTAL				83	74	9.28	70	84	352	94	280	806	3	1	4786	37	375			

CALC. DC DATE 6/26/67
CHK'D AB DATE 4/28/69

ROADWAY & PAVEMENT

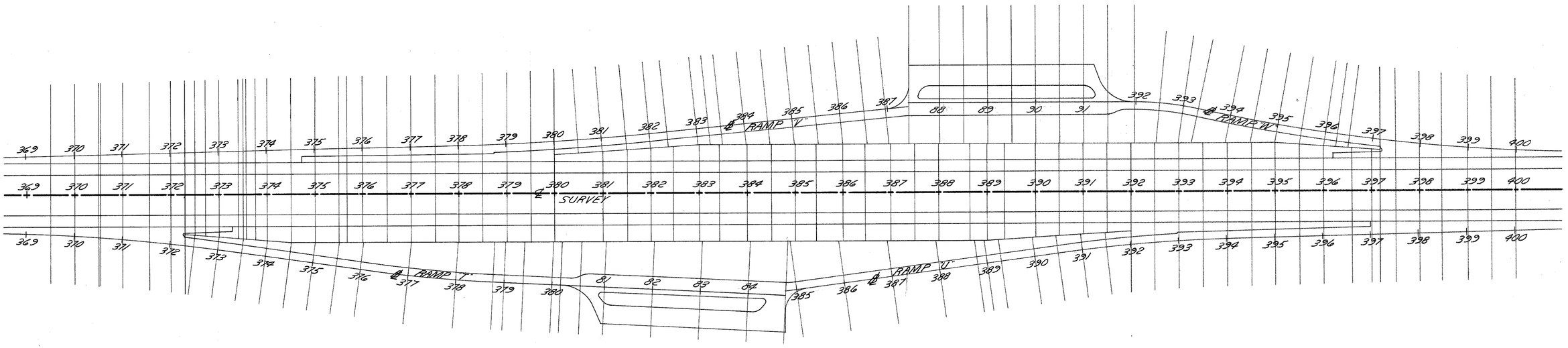
REF. NO.	STATION TO STATION		SIDE	202 Pipe Removed 24"ℓ under Lin. Ft.	606 Guard Rail Type 5 Lin. Ft.	ITEM SPECIAL Cleaning & Disposal of Septic Tanks Each	301 8" Bit. Aggregate Base Cu. Yds.	301 3" Bit. Aggregate Base Cu. Yds.	304 6" Aggregate Base Cu. Yds.	310 Subbase Cu. Yds.	402 1¾" Asphalt Concrete Cu. Yds.	404 1¼" Asphalt Concrete Cu. Yds.	409 Seal Coat Bituminous Gals.	409 Seal Coat Cover Aggregate Cu. Yds.	SEE SHEET NO.
	ROADWAY														
	555+00	570+00													
1-R	567+50	570+00	Lt.		250										
2-R	566+87.60	570+00	Rt.		312.5										
3-R	556+86	557+20	Rt.	50											
4-R	563+62		Lt.			1									
5-R	561+14		Rt.			1									
6-R	563+50		Rt.			1									
7-R	Not Used														
8-R	Not Used														
	570+00	579+87.60													
9-R	570+00	579+87.50	Lt.		987.5										
10-R	570+00	579+87.50	Rt.		987.5										
	PAVEMENT														
	555+00	570+00					1888	196	350	1779	389	278	706	19	
	570+00	579+87.60					1243	156	280	1201	256	183	561	15	
TOTAL				50	2537.5	3	3483		630	2980	645	461	1267	34	

QUANTITIES
STA. 555+00 ~ STA. 585+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68



NOTE: For Location of Cross Sections Shown on This Sheet
See the Following Tabulation:

1. Mainline	Sta. 369+00	to	Sta. 400+00	Sheet Nos. 138-160
2. Ramp "T"	Sta. 372+30.50	to	Sta. 380+19.89	Sheet Nos. 331-334
3. Right Rest Area	Sta. 80+09.67	to	Sta. 84+79	Sheet Nos. 335
4. Ramp "U"	Sta. 384+76.44	to	Sta. 392+00	Sheet Nos. 336-338
5. Ramp "V"	Sta. 380+00	to	Sta. 387+41.14	Sheet Nos. 339-342
6. Left Rest Area	Sta. 87+37.50	to	Sta. 92+06.83	Sheet Nos. 343-344
7. Ramp "W"	Sta. 391+97.57	to	Sta. 397+20	Sheet Nos. 345-347

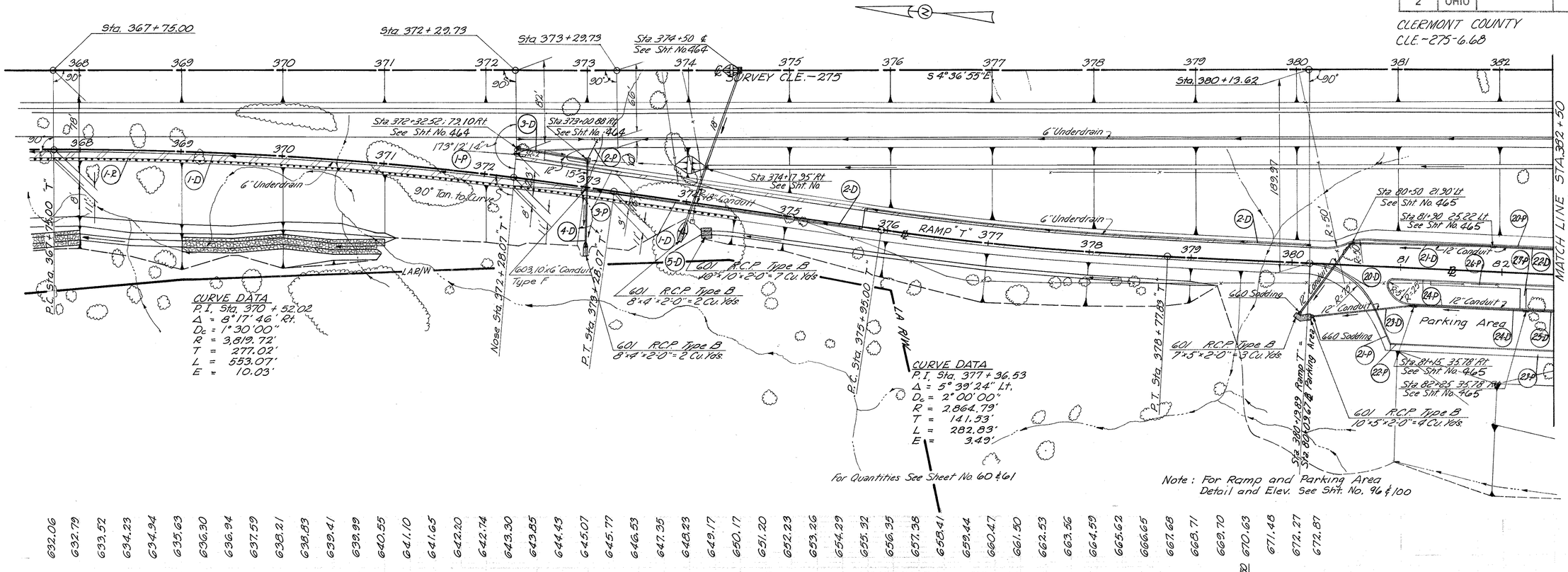
SCALE 1"=100'

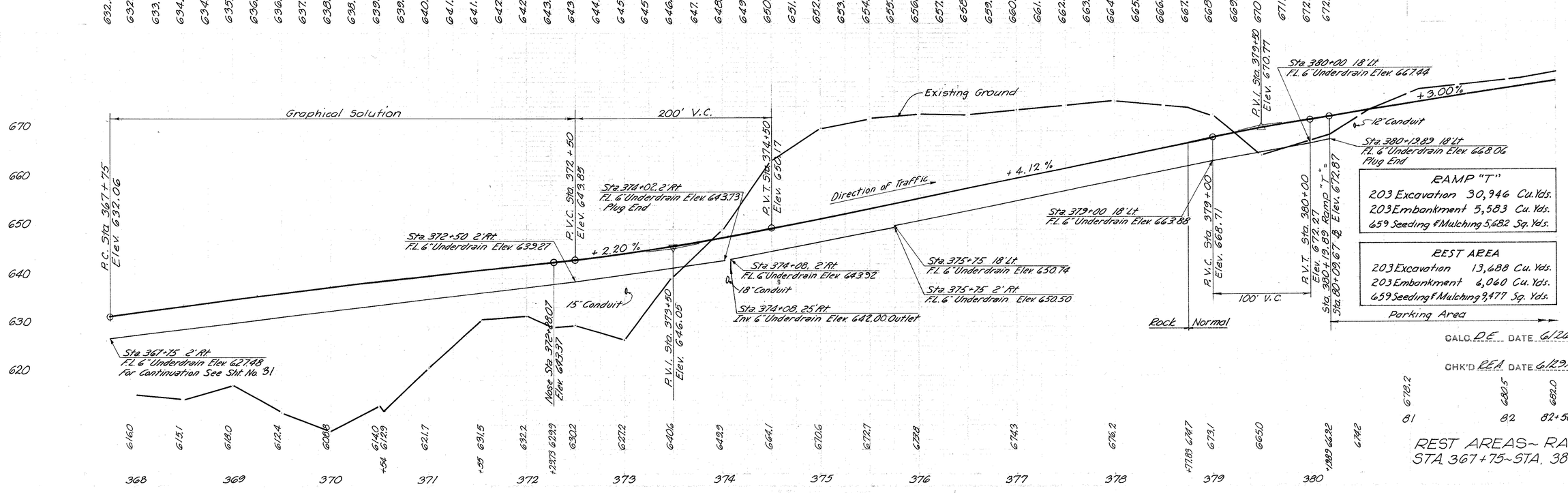
REST AREAS
CROSS SECTION LAYOUT

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68





FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE-275-6.68

MATCH LINE STA. 382+50

Sta. 384+82.91

SURVEY CLE-275

Sta 389+00 ℄ See Sheet No. 33

Sta 392+00 79.2 Rt See Sht. No. 491

S. 4° 36' 55" E.

Sta. 397+00.00

15 Conduit

30"x15" Tee

30" Conduit

End Guard Rail Sta 390+87.5

21" Conduit

Sta 83+30.25.22 Lt See Sht No. 465

Begin Guard Rail Sta 84+77.56

Sta 389+52.15 72 Rt See Sheet No. 442

24" Conduit

30" Conduit

21" Conduit

12" Conduit

177° 21' 38"

Sta 83+35.35.78 Lt See Sht No. 465

12" Conduit

Parking Area

RAMP "U"

388 ℄

660 Sodding 1'-6" Wide

601 Riprap

603 10"x6" Conduit Type "F"

601 Riprap

660 Sodding 1'-6" Wide

LA R/W

Sta. 384+76.44 Ramp "U" = Sta. 84+79.00, 10.00 Lt. ℄ Parking Area

Sta. 84+79.00

Ramp Sta 391+99.25 Rt = ℳ. Sta. 392+00.135' Rt. See Sht. No. 491

CURVE DATA
PI = Sta. 392 + 39.97
Δ = 6° 24' 28"
D_c = 2° 00' 00"
R = 2864.79'
T = 160.36'
L = 320.39'
E = 4.48'

Sta. 392+50.00 "U"

Sta. 391+00.00 "U"

Sta. 397+00.00 "U"

91° 11' 37"

Note: For Ramp and Parking Area Detail and Elev. See Sht. No. 99 & 100

682.0 683.5 685.0 686.0 683.7 688.0 693.8 691.0 677.0 684.0 686.3 680.2 671.6 685.0 684.0 701.0 710.0 716.0 720.3 723.0 723.2 721.8 720.7 717.9 714.7 712.2

82+50 83 84 +79 385 386 387 388 +80 389 +30 390 391 392 393 394 395 396 397

686.79 687.50 688.16 688.65 688.95 689.08 689.04 688.71 688.21 687.54 686.68 685.65 684.53 683.41 682.29 681.17 680.05 678.93 677.81 676.69 675.57 674.45 673.40 672.48 671.71 671.07 670.56 670.20 669.97 669.87 669.92 670.10 670.36 670.65 670.96 671.27 671.59 671.90 672.21 672.53 672.85 673.15 673.46 673.78 674.10 674.41 674.71 675.01 675.31 675.61

+ 76.44

700 690 680 670 660

P.V.I. Sta. 386+25 Elev. 691.25

+3.00%

-4.48%

250' V.C.

Graphical Solution

P.V.C. Sta. 390+00 Elev. 674.45

P.V.T. Sta. 392+50 Elev. 670.10

Sta. 397+00 Elev. 675.61

Sta. 392+08 2' Rt ℄ 6" Underdrain 667.15

Sta 391+96 2' Rt ℄ 6" Underdrain 669.16

Sta. 387+50 2' Rt ℄ 6" Underdrain 681.07

Sta. 385+00 2' Rt ℄ 6" Underdrain 682.92

Sta. 385+00 40' Lt ℄ 6" Underdrain 682.00 Outlet

Sta. 84+79 ℄ = Sta. 384+76.44 Ramp "U" Elev. 686.79

P.V.C. Sta. 385+00 Elev. 687.50

P.V.T. Sta. 387+50 Elev. 685.65

24" Conduit

Sta 390+00 2' Rt ℄ 6" Underdrain 669.87

30" Conduit

Sta 390+50 2' Rt ℄ 6" Underdrain 669.90

6" Unclassified Underdrain

P.V.I. Sta. 391+25 Elev. 668.85

+1.00

21" Conduit

Sta 391+87 2' Rt ℄ 6" Underdrain 666.66

Sta 322+50 2' Rt ℄ 6" Underdrain 662.02

Sta 392+13 2' Rt ℄ 6" Underdrain 666.65

Sta 392+00 25' Rt Inv. 6" Underdrain 665.50 Outlet

Sta 397+00 2' Rt ℄ 6" Underdrain 672.53 For Continuation See Sht No. 34

Direction of Traffic

RAMP "U"
203 Excavation 24,670 Cu. Yds.
203 Embankment 750 Cu. Yds.
659 Seeding & Mulching 5,190 Cu. Yds.

CALC. D.E. DATE 6/26/67

CHK'D REA DATE 6/27/67

REST AREAS — RAMP "U"
STA. 384+76.44 - STA. 397+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68

ESTIMATED QUANTITIES

DRAINAGE

REF. NO.	STATION TO STATION	SIDE	601 Rock Channel Protection Type B Cu. Yds.	601 Concrete Riprap Sq. Yds.	602 Concrete Masonry Cu. Yds.	603 6" Conduit Type B Lin. Ft.	603 6" Conduit Type F Lin. Ft.	603 12" Conduit Type B Lin. Ft.	603 15" Conduit Type B Lin. Ft.	603 15" Conduit Type F Lin. Ft.	603 21" Conduit Type B Lin. Ft.	603 21" Conduit Type C Lin. Ft.	603 24" Conduit Type A 706.02 or 706.08 Lin. Ft.	604 Std. No. 2-2-B Catch Basin Each	604 Std. No 5 Catch Basin Each	604 Std. No. 6 Catch Basin Each	604 Std. No. 1 Manhole Each	605 6" Underdrain Shallow Lin. Ft.	605 6" Underdrain 707.01 Type III or 707.12 Lin Ft.	605 6" Unclassified Underdrain 707.01 Type III or 707.12 Lin Ft.	660 Sodding Sq. Yds.	6"x6"x60° Wye	6"x6"x90° Bend	15"x25° Bend	SEE SHEET NO.
	RAMP T																								
1-D	367+75 – 374+02	Rt.					10											617							
2-D	374+08 – 380+19.89	Lt. & Rt.				20	10											145	467				3		
3-D	372+32.52 – 373+00	Lt.						68								1									464
4-D	373+00 – 373+08	Lt. & Rt.	2		0.26				48	42				1							1			2	464
5-D	374+19 – 374+24	Rt.	7																						
6-D	Not Used																								
7-D	Not Used																								
	RAMP U																								
10-D	385+00 – 391+96	Rt.				32	40											490	162	40		1	1		
11-D	392+02 – 397+00	Rt.					10												514			1			
12-D	Ramp U 398+91 – NL 389+50	Lt. & Rt.		54	0.41								116								21				
13-D	389+50 NL – 392+00 NL	Lt.										250					1								471
14-D	392+00 NL – Ramp U 391+99	Lt. & Rt.									56				1										471
15-D	Not Used																								
TOTAL			9	54	0.67	52	70	68	48	42	56	250	116	1	1	1	1	1252	1143	40	22				

CALC. DC DATE 6/22/62

CHK'D AB DATE 6/28/62

ROADWAY & PAVEMENT

REF. NO.	STATION TO STATION	SIDE	606 Guard Rail Type 5 Lin. Ft.	606 Anchor Assembly Each	Approach End Assembly Each	603 14" Steel Casing Pipe Lin. Ft.	625 3" Conduit 713.04 Lin. Ft.	301 8"-Bit. Aggregate Base Cu. Yds.	301 9"-Bit. Aggregate Base Cu. Yds.	304 4" Aggregate Base Cu. Yds.	310 Subbase Cu. Yds.	402 1 3/4" Asphalt Concrete Cu. Yds.	404 1 1/4" Asphalt Concrete Cu. Yds.	409 Seal Coat Bituminous Gals.	409 Seal Coat Cover Bituminous Gals.	609 Curb Std. Type 6 as per Plan Lin. Ft.	609 Curb Std. Type 7 Lin. Ft.	609 Curb Std. Type 8 Lin. Ft.	612 Concrete Median Sq. Yds.	SEE SHEET NO.
	ROADWAY																			
	RAMP T																			
1-R	367+75 – 374+50	Rt.	675	1																
2-R	Not Used																			
	RAMP U																			
10-R	84+77.56 – 390+87.50	Lt.	612.5	1	1															
11-R	386+00	Lt. & Rt.				30	30													19 & 336
	PAVEMENT																			
	RAMP T																			
	364+29.63 – 373+28.07							407	68	124	543	88	63	244	7					
	373+28.07 380+19.89							297	38	60	295	60	43	138	4					
1-P	372+28.07 – 372+56.07	Lt.																	26	
2-P	372+57.73 NL – 373+29.73 NL	Lt.														72				
3-P	Ramp T 372+56.07 – Ramp T 373+28.07	Lt.														72				
4-P	Not Used																			
	RAMP U																			
	385+18.20 – 392+50							313	41	63	318	63	45	146	4					
	392+50 – 409+00							553	179	338	1021	119	85	645	17					
10-P	390+86 – 397+00	Lt.															116	498		
11-P	Not Used																			
TOTAL			1287.5	2	1	30	30	1916		585	2177	330	236	1173	32	144	116	498	26	

CALC. DC DATE 6/22/62

CHK'D AB DATE 6/28/62

QUANTITIES
RAMP T & RAMP U

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

(61 638)

CLERMONT COUNTY
CLE-275-6.68

ESTIMATED QUANTITIES

DRAINAGE

REF. NO.	STATION TO STATION	SIDE	601 Rock Channel Protection Type B Cu. Yds.	602 Concrete Masonry Cu. Yds.	603 12" Conduit Type B Lin. Ft.	604 Std. No. 3 Catch Basin Each	660 Sodding Sq. Yds.	SEE SHEET NO.
	REST AREA PARKING							
	Between Ramp T and Ramp U							
20-D	Ramp T 380+09 – 80+50	Lt. & Rt.	3	0.23	86	1	1	465
21-D	80+50 – 81+90	Lt.			140	1		465
22-D	81+90 – 82+50	Lt.			60			465
23-D	80+14 – 81+15	Rt.	4	0.23	102	1	1	465
24-D	81+15 – 82+25	Rt.			110	1		465
25-D	82+25 – 82+50	Rt.			25			465
26-D	82+50 – 83+30	Lt.			80	1		465
27-D	82+50 – 83+35	Rt.			85	1		465
TOTAL			7	0.46	688	6	2	

CALC. DE DATE 6/26/67

CHK'D GP DATE 6/28/67

ROADWAY & PAVEMENT

REF. NO.	STATION TO STATION	SIDE	301 8" Bit. Aggregate Base Cu. Yds.	310 Subbase Cu. Yds.	402 1 3/4 Asphalt Concrete Cu. Yds.	404 1 1/4 Asphalt Concrete Cu. Yds.	608 Concrete Sidewalk 4" Thick Sq. Ft.	609 Curb Std. Type 6 Lin. Ft.	609 Curb Std. Type 7 Lin. Ft.	SEE SHEET NO.
	ROADWAY									
20-R	Not Used									
	PAVEMENT									
	REST AREA PARKING									
	Between Ramp T and Ramp U									
	Ramp T 380+19.89 – Ramp U 385+18.20		852	673	187	133				
20-P	Ramp T 380+19.89 – Ramp U 385+18.20	Lt.							510	
21-P	Ramp T 380+19.89 – 80+90	Rt.							120	
22-P	80+90 – 84+79	Rt.						386		
23-P	80+90 – 84+79	Rt.					2316			
24-P	380+87 – 84+58.84	Rt.							768	
25-P	84+79 – Ramp U 385+18.20	Rt.							112	
26-P	81+25 – 84+24	Rt.					897			
27-P	82+13 – 82+18	Rt.					105			
28-P	83+26 – 83+31	Rt.					105			
TOTAL			852	673	187	133	3423	386	1510	

REST AREA QUANTITIES
BETWEEN RAMP T & U

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

G2
638

CLERMONT COUNTY
CLE.- 275 - 6.68

CURVE DATA
P.I. Sta. 380 + 05.89
Δ = 4° 36' 55" Lt.
Dc = 1° 00'
R = 5,729.58'
T = 230.89'
L = 461.53'
E = 4.65'

Nose Sta. 374 + 75.00 "V"
P.C. Sta. 377 + 75.00 "V"
Sta. 379 + 25.00 "V"
End Curb Sta. 382+00
P.T. Sta. 382 + 36.53 "V"
LA R/W
Ramp V Sta 383+10 59' Lt
60' Std. HW-E
601 R.C.P. Type B
25"x19"x3'-0" = 28 Cu. Yds.
Sta. 384 + 87.5 End Guard Rail
P.C. Sta. 386 + 95.27 "V"
601 R.C.P. Type B
2(d"x3"x2'-0") = 4 Cu. Yds.
Sta 87+85 35.78 Lt
See Sht. No. 465
Parking Area
Sta. 87 + 37.50
12"
Sta 88+97 35.78 Lt
See Sht. No. 465
Sta. 387 + 41.14 "V" 12"
24" "X" 28"
Sta 387+36 15.22 Rt
See Sht. No. 465
Sta 88+85 25.22 Rt
See Sht. No. 465
Sta 375+50, 76.16' Lt
See Sht. No. 464
Sta 374+77 79.75 10' Lt
See Sht. No. 464
Sta 376+50, 77.59' Lt
See Sheet No. 464
Sta 380+50 23.50 Rt Ramp "V"
See Sht. No. 464
Sta 383+50 35' Lt M.
See Sht. No. 464
Sta 383+10 21' Rt Ramp V
See Sht. No. 464
Sta 384+50
Begin Guard Rail
RAMP "V" 384
6" Underdrain
12" Conduit
30" Conduit
91'
Sta. 374 + 75.00
Sta 374+50 ℄
See Sht. No. 464
Sta 387+37.50
Sta 388+56 ℄
See Sht No.
Sta 383+00 ℄
See Sht. No. 33
℄ CLE.- 275
MATCH LINE STA. 389 + 00

Note: For Rest Area Parking Lot Details See Sht. No. 100

For Ramp V Details & Elevations See Sheet No. 98

For Quantities See Sht. No. 64 & 65

649.36 650.33 650.78 651.20 651.60 652.00 652.40 652.80 653.20 653.60 653.99 654.37 654.74 655.10 655.45 655.80 656.15 656.50 656.85 657.20 657.54 657.90 658.31 658.76 659.26 659.80 660.39 661.02 661.70 663.10 664.50 665.90 667.30 668.70 670.10 670.77 671.39 671.95 672.45 672.90 673.29 673.62 673.86 673.90 674.31

REST AREA
203 Excavation 29,081 Cu. Yds.
203 Embankment 1,229 Cu. Yds.
659 Seeding & Mulching 3,503 Sq. Yds.

RAMP V
203 Excavation - 10,718 Cu. Yds.
203 Embankment = 12,642 Cu. Yds.
659 Seeding & Mulching = 3,907 Sq. Yds.

Graphical Solution
200' V.C.
680
670
660
650
Existing Ground
Direction of Traffic
Nose Sta. 374 + 75
Elev. 649.36'
P.V.C. Sta. 380+00
Elev. 654.54
P.V.I. Sta. 382+00
Elev. 661.70
P.V.T. Sta. 383+00
Elev. 658.30
+ 1.36 %
+ 2.80 %
+ 1.00 %
Sta 374+75 2' Lt. Fl. 6" Underdrain Elev. 646.28
Point of Underdrain See Sht. No. 31
Sta 380+00 2' Lt
Fl. 6" Underdrain Elev. 654.46
6" Unclassified Underdrain
Sta 382+00 2' Lt
Fl. 6" Underdrain Elev. 658.62
18" Conduit
Sta 383+00 2' Lt
Fl. 6" Underdrain Elev. 659.92
Sta 385+00 2' Lt
Fl. 6" Underdrain Elev. 663.52
Sta 386+00 18' Rt
Fl. 6" Underdrain Elev. 668.12
P.V.I. Sta. 386+00
Elev. 672.90
P.V.C. Sta. 385+00
Elev. 670.10
P.V.T. Sta. 387+00
Elev. 673.90
Sta 386+00 2' Lt
Fl. 6" Underdrain Elev. 667.87
30" Conduit
200' V.C.
Sta. 387 + 41.10 "V" B.k. =
Sta. 87+37.50 - 10 Rt. Ahn.
Parking Area
Sta 387+00 2' Lt
Fl. 6" Underdrain Elev. 669.32
Sta 387+00 18' Rt
Fl. 6" Underdrain Elev. 669.07
CALC. DE DATE 6/26/67
CHK'D REA DATE 6/28/67

665.9 665.1 663.0 661.0 667.9 672.0 674.2 675.0 673.3 674.4 672.8 672.2 670.8 672.0 672.0 +34.33 666.7 661.0 655.3 664.3 672.3 671.8 668.2 659.5 660.0 646.5 +35.97 669.5 +41.14 667.0
675.8 681.0 684.8
375 376 377 378 379 380 381 382 383 384 385 386 387 88 89

REST AREAS - RAMP "V"
STA. 374 + 75 - STA. 387 + 41.10

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

(63 638)

CLERMONT COUNTY
CLE.–275–6.68

CURVE DATA
P.I. Sta. 392'+64.71
Δ = 12°46'12" Rt.
Dc = 9°32'57"
R = 600.00'
T = 67.14'
L = 133.73'
E = 3.74'

CURVE DATA
P.I. Sta. 397+30.71
Δ = 11°56'20"
Dc = 1°30'00"
R = 3819.72'
T = 399.41'
L = 795.93'
E = 20.83'

Sta 90+09.35.76' Lt
See Sheet No. 465

Sta 92+06.83 Parking Area
P.C. Sta. 391+97.57

P.R.C. Sta. 393+31.30

Sta. 396+22.73

Nose Sta. 397+22.73' W'

P.R.C. Sta. 401+27.23' W'

Parking Area

12"℄

Sta. 91+23.50

Sta 90+25.22' ℄
See Sheet No. 465

106.50'

RAMP 'W' 395

90° Tan. to Curve

173°06'05"

90° Tan. to Curve

90° Tan. to Curve

90° Tan. to Curve

66# Jute Matting
7'-6" Wide

18"Conduit

Sta. 404+22.20
Begin Taper

8'

11'

78'

℄ CLE.-275

Sta. 391+23.50

Sta. 396+22.20

Sta. 397+22.20

Sta. 401+27.23

Note: For Rest Area Parking Lot Details
See Sheet No. 100

Note: For Ramp 'W' Details & Elevations
See Sheet No. 99

For Quantities See
Sheet No. 64 & 65

679.16 679.19 679.39 679.50 679.51 679.43 679.25 678.98 678.61 678.15 677.13 676.11 675.65 675.28 675.00 674.82 674.73 674.74 674.84 675.03 675.26 675.28 675.55 675.86 676.25 676.68 677.15 677.65 678.17 678.66 679.10 679.50 679.90 680.30 680.70 681.10 681.50 681.90 681.94

Sta 392+75 – 2' Lt
Begin 6" Underdrain Fl. 676.43

Parking Area

Sta. 392+00.83 Bk = Sta. 391+97.57 'W' Ahd.

P.V.I. Sta. 393+00
Elev. 680.19

200' V.C.

P.V.C. Sta. 395+00
Elev. 676.11

P.V.I. Sta. 397+00
Elev. 675.03

200' V.C.

Graphical Solution

+22.73

+27.23

Existing Ground

Direction of Traffic

P.R.C. Sta. 401+27.23
Elev. 681.94

690
680
670
660
650

1.02 %
1.36 %
-0.24%
+0.42%

Sta 392+00 – 18' Rt
Begin 6" Underdrain
Fl. 675.88

P.V.C. Sta. 392+00
Elev. 679.19

Sta 393+75 – 18' Rt
Fl. 6" Underdrain 675.96

Sta 393+90 – 39' Rt
Fl. 6" Underdrain 675.00

P.V.I. Sta. 394+00
Elev. 678.15

Sta 394+00 – 2' Lt
Fl. 6" Underdrain 675.07

P.V.I. Sta. 396+00
Elev. 674.07

Sta 396+25 – 2' Lt
Fl. 6" Underdrain 671.65

Sta 396+20 Nb, 68' Lt
Fl. 6" Underdrain 671.10
For Connection from Main Line
See Sheet No. 35

Sta 398+00 – 2' Lt
Fl. 6" Underdrain 673.17

6" Unclassified Underdrain

Sta 399+00 – 2' Lt
Fl. 6" Underdrain 673.59

Sta 400+50 – 2' Lt
End 6" Underdrain Fl. 676.12

684.8 687.2 689.6 691.0 690.0 686.0 688.8 691.6 692.8 691.0 691.3 685.0 685.0 687.0 688.2 688.3 689.1 693.8 692.7 692.9 692.2 690.1 690.9 689.9 689.2 689.9 688.8

89 90 91 392 393 394 395 396 397 398 399 400 401 402 403 404

+31.30 +23 +20

203 Excavation =	27,307 Cu Yds.
203 Embankment =	0 Cu Yds.
659 Seeding & Mulching =	4.562 Sq Yds.

CALC. DE DATE 6/26/67

CHK'D REA DATE 6/28/67

REST AREAS – RAMP "W"
STA. 391+97.57 – STA. 401+27.23

ESTIMATED QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

64
638

CLERMONT COUNTY
CLE-275-6.68

DRAINAGE

REF. NO.	STATION TO STATION		SIDE	602 Concrete Masonry Cu. Yds.	603 6" Conduit Type B Lin. Ft.	603 6" Conduit Type F Lin. Ft.	603 12" Conduit Type B Lin. Ft.	603 12" Conduit Type C 706.02 or 706.08 E.S. Lin. Ft.	603 15" Conduit Type C 706.01 E.S. 706.02 or 706.08 E.S. Lin. Ft.	603 18" Conduit Type B 706.02 CL III 706.08 Lin. Ft.	604 Std. No. 2-2B Catch Basin Each	604 Std. No. 5 Catch Basin Each	604 Std. No. 6 Catch Basin as per plan Each	604 Std. No. 1 Manhole Each	605 6" Underdrain Shallow Lin. Ft.	605 6" Underdrain 707.01 Type III or 707.12 Lin. Ft.	605 6" Unclassified Underdrain 707.01 Type III or 707.11 Lin. Ft.	660 Sodding Sq. Yds.	6"x6"x60° Bend	6"x6"x90° Bend	6"x6"x6" Tee	SEE SHEET NO.
	Ramp V																				
1-D	374+75	387+00	Lt.												400	72.5	100				
2-D	386+00	387+00	Rt.		20										100					1	1	
3-D	3841777.79	385+50	Rt.				72						2								464
4-D	375+50	376+50	Rt.				100						1								464
5-D	380+50	383+10	Rt.					260			1										464
6-D	383+10		E	0.30						80				1							464
7-D	383+10	383+50	Rt.						44			1						1			464
	Ramp W																				
10-D	392+75	400+50	Lt.		50	10									150	525	100				
11-D	392+00	393+75	Rt.			10										192			1		
				0.30	70	20	172	260	44	80	1	1	3	1	650	1442	200	1			

CALC. DE DATE 6/26/67

CHK'D AB DATE 4/28/69

ROADWAY & PAVEMENT

REF. NO.	STATION TO STATION		SIDE	606 Guard Rail Type 5 Lin. Ft.	606 Anchor Assembly Each	606 Approach End Assembly Each	603 14" Steel Casing Pipe Lin. Ft.	625 3" Conduit 713.04 Lin. Ft.	301 8" Bit. Aggregate Base Cu. Yds.	301 3" Bit. Aggregate Base Cu. Yds.	304 6" Aggregate Base Cu. Yds.	310 Subbase Cu. Yds.	402 1 3/4" Asphalt Concrete Cu. Yds.	404 1 1/2" Asphalt Concrete Cu. Yds.	409 Seal Coat Bituminous Gals.	409 Seal Coat Cover Aggregate Cu. Yds.	609 Curb Std. Type 8 Lin. Ft.	612 Concrete Median Sq. Yds.	SEE SHEET NO.
	ROADWAY																		
	Ramp V																		
1-R	384+50	386+87.50	Lt.	237.5	1	1													
10-R	386+00		Lt. & Rt.				30	30											19 & 342
	Ramp W																		
	PAVEMENT																		
	Ramp V																		
	362+75 NB	379+25							553	188	353	893	119	85	675	18			
	379+25	386+95.97							331	43	67	333	67	48	154	4			
1-P	374+75	382+00	Rt.														727		
	Ramp W																		
	391+97.97	396+22.79							182	24	37	184	37	26	85	2			
	396+22.79	408+22.20							999	68	124	475	86	61	245	7			
10-P	Not Used																		
11-P	Not Used																		
12-P	396+97.20 NB	397+22.79 W	Rt.															24	
				237.5	1	1	30	30	1788		581	1885	309	220	1159	31	727	24	

Ramp V & Ramp W Quantities

ESTIMATED QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

65
638

CLERMONT COUNTY
CLE.-275-6.68

DRAINAGE

REF. NO.	STATION TO STATION		SIDE	601 Rock Channel Protection Type B Cu. Yds.	602 Concrete Masonry Cu. Yds.	603 12" Conduit Type B Lin. Ft.	604 Std. No. 3 Catch Basin Each	660 Sodding Sq. Yds.	SEE SHEET NO.
	Rest Area Parking Between Ramp V & Ramp W								
20-D	387+04 Ramp V	387+32 Ramp W	Lt. & Rt.	2	0.23	60	1	1	465
21-D	387+32 Ramp V	88+85	Rt.			156	1		465
22-D	88+85	89+00	Rt.			15			465
23-D	387+24 Ramp V	87+35	Lt.	2	0.23	72	1	1	465
24-D	87+25	88+97	Lt.			172	1		465
25-D	88+97	89+00	Lt.			3			465
26-D	89+00	90+22	Lt.			103	1		465
27-D	89+00	90+25	Rt.			125	1		465
TOTAL				4	0.46	652	6	2	

CALC. DE DATE 6/26/67

CHK'D AB DATE 4/28/69

ROADWAY & PAVEMENT

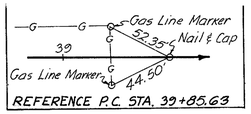
REF. NO.	STATION TO STATION		SIDE	201 8" Bit. Aggregate Base Cu. Yds.	310 Subbase Cu. Yds.	402 1 3/4" Asphalt Concrete Cu. Yds.	404 1 1/4" Asphalt Concrete Cu. Yds.	608 4" Conc. Sidewalk Sq. Ft.	609 Curb Std. Type G Lin. Ft.	609 Curb Std. Type 7 Lin. Ft.	SEE SHEET NO.
	ROADWAY										
20-R	Not Used										
	PAVEMENT										
	Rest Area Parking 386+25.97 Ramp V - 391+97.57 Ramp W			854	675	187	133				
20-P	386+25.97 Ramp V	87+37.50	Lt.							112	
21-P	87+37.50	91+23.30	Lt.						386		
22-P	87+37.20	91+23.50	Lt.					2316			
23-P	87+37.66	91+29.28	Lt.							708	
24-P	386+25.97	391+97.57	Rt.							514	
25-P	91+23.30	391+97.57	Lt.							120	
26-P	87+91	90+91	Lt.					900			
27-P	88+84	88+89	Lt.					105			
28-P	89+97	90+02	Lt.					105			
TOTAL				854	675	187	133	3426	386	1514	

REST AREA QUANTITIES
BETWEEN RAMPS V & W

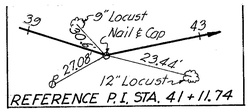
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

GG 638

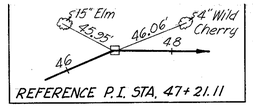
CLERMONT COUNTY
CLE-275-6.68



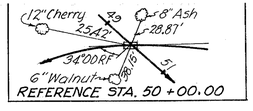
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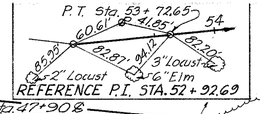
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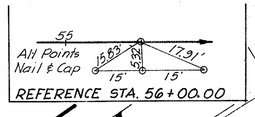
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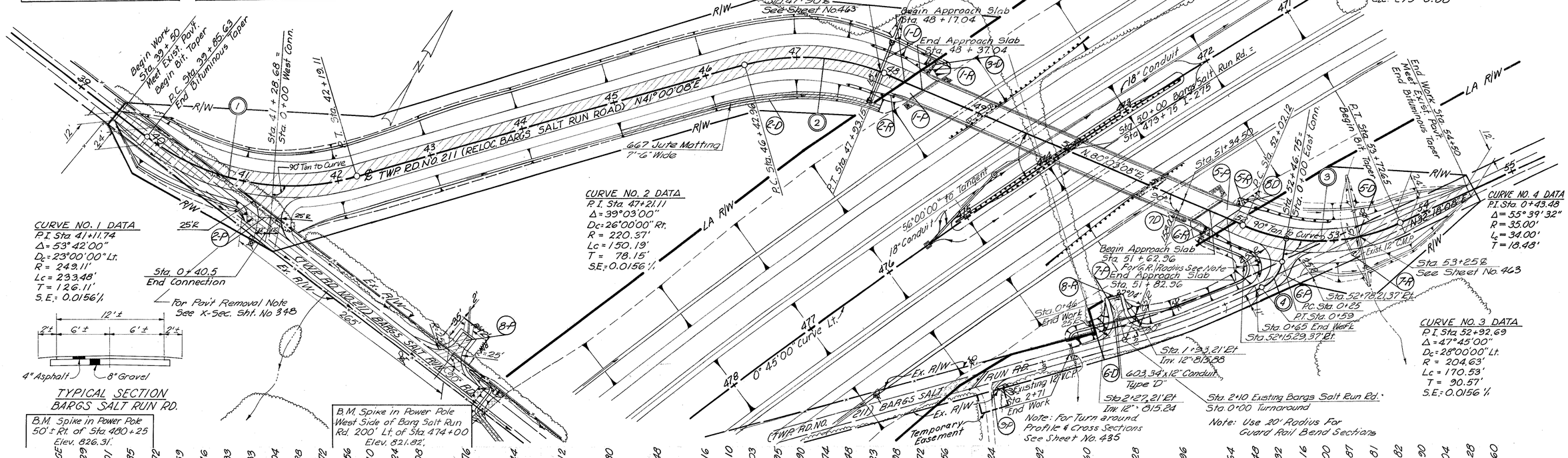
REFERENCE STA. 50+00.00



REFERENCE P.I. STA. 52+92.69



REFERENCE STA. 56+00.00



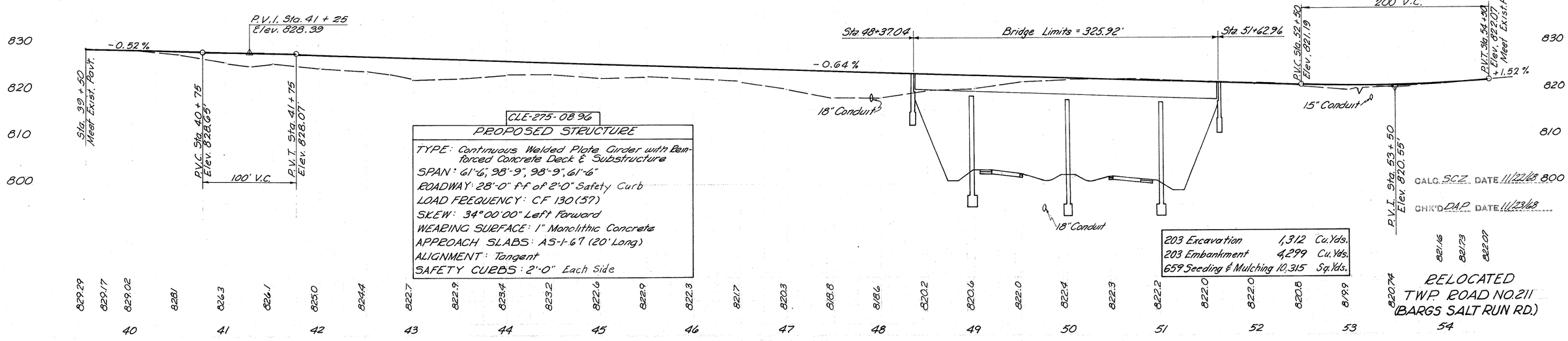
CURVE NO. 1 DATA
P.I. Sta. 41+11.74
Δ = 53°42'00"
D_c = 23°00'00" Lt.
R = 249.11'
Lc = 233.48'
T = 126.11'
S.E. = 0.0156'/'

CURVE NO. 2 DATA
P.I. Sta. 47+21.11
Δ = 39°03'00"
D_c = 26°00'00" Rt.
R = 220.37'
Lc = 150.19'
T = 78.15'
S.E. = 0.0156'/'

CURVE NO. 4 DATA
P.I. Sta. 0+43.48
Δ = 55°39'32"
R = 35.00'
L_c = 34.00'
T = 18.48'

CURVE NO. 3 DATA
P.I. Sta. 52+92.69
Δ = 47°45'00"
D_c = 28°00'00" Lt.
R = 204.63'
Lc = 170.53'
T = 90.57'
S.E. = 0.0156'/'

	RIGHT EDGE	℄	LEFT EDGE
40	829.09	829.29	829.29
	829.04	829.17	829.17
	829.00	829.04	829.02
	828.97	828.91	828.85
	828.84	828.78	828.72
	828.71	828.65	828.59
	828.56	828.52	828.46
	828.42	828.37	828.33
	828.26	828.23	828.04
	828.00	828.07	827.88
41	827.75	827.91	827.72
	827.50	827.75	827.56
	827.24	827.53	827.40
	827.08	827.43	827.24
	826.76	827.27	827.08
42	826.44	826.95	826.76
	826.12	826.63	826.44
	825.80	826.31	826.12
43	825.48	825.99	825.80
	825.16	825.67	825.48
44	825.00	825.35	825.16
	824.84	825.19	825.00
	824.67	825.03	824.84
45	824.52	824.86	824.67
	824.36	824.71	824.52
	824.20	824.55	824.36
46	824.04	824.39	824.20
	823.88	824.23	824.04
	823.72	824.07	823.88
47	823.56	823.91	823.72
	823.24	823.75	823.56
48	822.92	823.43	823.24
	822.60	823.11	822.92
49	822.28	822.79	822.60
	821.96	822.47	822.28
50	821.64	822.15	821.96
	821.48	821.83	821.64
51	821.32	821.67	821.48
	821.16	821.51	821.42
52	821.00	821.35	821.35
	820.87	821.19	821.28
	820.81	821.06	821.25
53	820.82	821.00	821.19
	820.90	821.01	821.20
	821.04	821.09	821.18
54	821.28	821.23	821.23
	821.60	821.44	821.36
	822.07	821.72	821.60



CLE-275-08.96

PROPOSED STRUCTURE

TYPE: Continuous Welded Plate Girder with Reinforced Concrete Deck & Substructure
SPAN: 61'-6", 98'-9", 98'-9", 61'-6"
ROADWAY: 28'-0" f-f of 2'-0" Safety Curb
LOAD FREQUENCY: CF 130(57)
SKEW: 34°00'00" Left Forward
WEARING SURFACE: 1" Monolithic Concrete
APPROACH SLABS: AS-1-67 (20' Long)
ALIGNMENT: Tangent
SAFETY CURBS: 2'-0" Each Side

203 Excavation	1,312	Cu. Yds.
203 Embankment	4,299	Cu. Yds.
659 Seeding & Mulching	10.315	Sq. Yds.

CALC. SCZ DATE 11/22/68
CHK'D DAP DATE 11/23/68

RELOCATED TWP. ROAD NO. 211 (BARGS SALT RUN RD.)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

G7
638

CLERMONT COUNTY
CLE.-275-6.68

ESTIMATED QUANTITIES

DRAINAGE

REF. NO.	STATION TO STATION	SIDE	602 Concrete Masonry Cu. Yds.	603 12"Conduit Type D Lin.Ft.	603 15"Conduit Type A 706.01, 706.02 or 706.08 Lin.Ft.	603 18"Conduit Type A 706.01 or 706.02 or 706.08 Lin.Ft.	660 Sodding for Spl. Berm & Slope Protection Sq.Yds.	660 Sodding Sq. Yds.	667 Jute Matting Sq. Yds.	SEE SHEET NO.
	39+50 - 48+17.04									
1-D	47+90	℄	0.60			70		4		463
2-D	45+00 - 48+02	Rt.							251	
3-D	48+34	Lt.					17			
4-D	Not Used									
	51+82.96-54+50									
5-D	53+25	℄	0.46		62			2		463
6-D	Turnaround Sta. 0+21	℄		34						
7-D	51+68	Lt					13			
8-D	51+88	Rt.					8			
TOTAL			1.06	34	62	70	38	6	251	

CALC. DCJ DATE 11/22/68

CHK'D RH DATE 5/12/69

ROADWAY & PAVEMENT

REF. NO.	STATION TO STATION	SIDE	202 Pipe Removed 24" ℄ Under Lin Ft.	606 Guard Rail Type 4 Lin. Ft.	606 Anchor Assembly Each	606 Bridge Terminal Assembly Each	304 Aggregate Base Cu. Yds.	310 Subbase Cu. Yds.	402 1 1/2" Asphalt Concrete Cu. Yds.	404 1 1/2" Asphalt Concrete Cu. Yds.	408 Bituminous Prime Coat Gals.	605 Aggregate Drains Lin. Ft.	611 Reinf. Conc. App. Slab T=12" Sq. Yds.	SEE SHEET NO.
	ROADWAY													
	39+50 - 48+17.04													
1-R	47+80.24 - 48+30.24	Lt.		50	1	1								
2-R	47+58.66 - 48+08.66	Rt.		50	1	1								
3-R	Not Used													
4-R	Not Used													
	51+82.96 - 54+50													
5-R	51+91.34 - 52+91.34	Lt.		100	1	1								
6-R	51+89.76 - 52+32	Rt.		75	1	1								
7-R	53+13	Rt.	20											
8-R	0+48 Tee Turn	℄		25										
	PAVEMENT													
	39+50 - 48+17.04						811		79	79	915	351		
1-P	48+17.04 - 48+37.04	℄						12					72	
2-P	41+28.68	Rt.					40		4	4	44			
3-P	Not Used													
4-P	Not Used													
	51+82.96 - 54+50						235		23	23	264	143		
5-P	51+62.96 - 51+82.96	℄						12					72	
6-P	52+46.75	Rt.					45		4	4	51			
7-P	2+10	Rt.					29		3	3	33			
8-P	42+75	Rt.					27		3	3	31			
9-P	℄ 475+80	Lt.					2		1	1	3			
TOTAL			20	300	4	4	1189	24	117	117	1341	494	144	

BARGS SALT RUN ROAD
QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

(68 638)

CLERMONT COUNTY
CLE.-275-6.68

REFERENCE P.O.T. STA. 41+00
45.33' Iron Sign Post
Nail & Cap
42
32.0'
23.29'
Mail Box Post

REFERENCE P.I. STA. 45+06.95
Sign Post 43.77
43.50 Sign Post
Tangent
45' Nail & Cap
Tangent

REFERENCE P.O.T. STA. 50+00
C.N. on Spike
51
Mail Box Post
24.10
45.25
6" Walnut

REFERENCE P.O.T. STA. 60+00
Nail & Cap
53.00 Lamp Post
61
34.58
41.55' Wood Post
Wood Post

Leach Area
Septic Tank
667 Jute Matting 11'-4" Wide.
Sta. 47+00 Cinti.-Batavia Pk. = Sta. 0+00 Driveway
Open Field
P.C.C. Sta. 532+25 ℓ
P.O.C. Sta. 532+25 Mℓ
Sta. 0+68 End Work
Temp. Easement
Begin Bituminous Taper Sta. 45+50 Meet Exist. Pavt.
1 Sty. Conc. Blk Firehouse # 718
Gravel
Flag Pole
Gas Pump
Sta. 0+55 END WORK
Sta. 46+30 Co. Rd. No. 171 (Cinti.-Batavia Pike) = Sta. 0+00 Driveway
667 Jute Matting
12" Cinti.-Batavia Pike
End Approach Slab Sta. 48+40.32
Begin Approach Slab Sta. 45+15.32
Exist. R/W
Mail Boxes
Temporary Easement Sta. 46+25 Co. Rd. No. 171 (Cinti.-Batavia Pike) = Sta. 0+00 Driveway
Sta. 0+40 END WORK
1 Sty. Conc. Blk Bus. # 715
Gas Pumps
Incinerator
P.T. Sta. 44+10 = Sta. 0+46.08 Begin Work
End Bituminous Taper Sta. 46+50 Meet Exist. Pavt.
P.T. Sta. 46+59.52
667 Jute Matting
Well
Stone Pillars
667 Jute Matting 11'-4" Wide
601 Rock Channel Protection
Sta. 50+00 County Rd. No. 171 (Cincinnati-Batavia Pike) Sta. 532+73.25 Cle.-275-1008
PROPOSED TEMPORARY ROAD
667 Jute Matting
See Sht. No. 18
Temporay Easement
Sta. 56+82.39' Rt. ℓ 12" = 862.68
Sta. 0+59 End Work
For Quantities See Sht. No. 69
Sta. 57+18.39' Rt. ℓ 12" = 862.32
603.36' × 12" Conduit Type D @ 2.00%
P.T. Sta. 16+27.93 = Sta. 59+65.08 End Work
End Bituminous Taper Sta. 58+50 Meet Exist. Pavt.
Begin Bituminous Taper Sta. 57+50
Sta. 57+00 Cinti.-Batavia Pk. = Sta. 0+00 Driveway
Temporary Easement
Sta. 1+04 End Work
2 Sty. Fr. Res.
Apparel Drive
1 Sty. Fr. Barn
1 Sty. Fr. Chicken House
1½ Sty. Fr. Barn
1 Sty. Fr. Privy
Septic Tank
Concrete Septic Tank
Cultivated
Well
Stone Pillars
2 Sty. Fr.
1 Sty. Fr. Shingle Barn
Begin Approach Slab Sta. 51+67.68
Erosion Control
End Approach Slab Sta. 51+32.68
667 Jute Matting
46°00'20" Tangent to Curve
Sta. 52+60 See Sht. No. 63
Sta. 54+93 Sta. 0+00
Sta. 50+00 County Rd. No. 171 (Cincinnati-Batavia Pike) Sta. 532+73.25 Cle.-275-1008
PROPOSED TEMPORARY ROAD
667 Jute Matting
See Sht. No. 18
Temporay Easement
Sta. 56+82.39' Rt. ℓ 12" = 862.68
Sta. 0+59 End Work
Gas Line Post
Mail Box
Fence
Barbed Wire
Erosion Control
Existing 15" V.T.P.
Existing 6" Gas Main
Existing 8" Water Main
Existing 8" Water Main
Existing 6" Gas Main
5-15" Conduit
Existing 15" V.T.P.
Existing 6" Gas Main
Existing 8" Water Main
Sta. 45+50 Meet Exist. Pavt.
P.V.C. Sta. 46+25 Elev. 883.53
P.V.I. Sta. 48+40.32 Elev. 892.30
P.V.I. Sta. 50+75 Elev. 892.30
Sta. 51+67.68
P.V.T. Sta. 55+25 Elev. 874.30
P.V.C. Sta. 57+00 Elev. 867.30'
P.V.I. Sta. 57+75 Elev. 864.30'
P.V.T. Sta. 58+50 Elev. 863.07 Meet Exist. Pavt.
Bridge Limits 327.36'
+1.86%
-4.00%
-1.64%
Normal
150' V.C.
900' V.C.

B.M. Cross notch on most northerly bolt on top flange of fire hydrant County Rd. No. 171 (Cincinnati-Batavia Pike) Sta. 43+75, 27' Lt. Elev. 880.28.

CLE-275-1008
PROPOSED STRUCTURE
TYPE: Continuous Welded Plate Girder with Reinforced Concrete Deck and Substructure
SPANS: 59'-0" 98'-3" 103'-3" 62'-0"
ROADWAY: 30'-0" f-f of 2'-0" safety curbs
LOAD FREQUENCY: CF 400 (57)
SKEW: 21°59'40" Left Forward
WEARING SURFACE: 1" Monolithic Concrete
APPROACH SLABS: A S-1-67 (25' long)
ALIGNMENT: Tangent
SAFETY CURBS: 2'-0" Each Side

203 Excavation	613 Cu. Yd.
203 Embankment	15,540 Cu. Yd.
659 Seeding & Mulching	9.007 Sq. Yds.

CALC. DE DATE 6/26/67
CHK'D REA DATE 6/28/67

CURVE DATA
P.I. = Sta. 45+06.95
Δ = 13°49'00"
D_c = 4°30'00" Rt.
R = 1273.24'
L = 307.04'
T = 154.27'

TYPICAL SECTION
CINCINNATI BATAVIA PK.
Shoulder Varies 10'± 10'± Shoulder Varies 20'±
8" Gravel 4" Asphalt

	Rt. Edge	℄ Profile	Lt. Edge
44	882.16	882.53	882.92
45	882.61	883.00	883.52
46	883.09	883.46	883.70
47	883.59	883.93	884.10
48	884.06	884.37	884.47
49	884.45	884.73	884.76
50	884.89	885.14	885.09
51	885.24	885.46	885.34
52	885.54	885.74	885.57
53	885.80	885.99	885.80
54		886.18	
55		886.35	
56		886.46	
57		886.55	
58		886.58	
59		886.58	
60		886.53	
61		886.45	
62		886.32	
63		886.16	
64		885.95	
65		885.71	
66		885.42	
67		885.09	
68		884.72	
69		884.31	
70		883.86	
71		883.37	
72		882.84	
73		882.27	
74		881.65	
75		881.00	
76		880.30	
77		879.57	
78		878.79	
79		877.97	
80		877.12	
81		876.22	
82		875.28	
83		874.30	
84		873.30	
85		871.30	
86		869.30	
87		867.30	
88		866.35	
89		865.50	
90		864.74	
91		864.09	
92		863.53	
93		863.07	

CO. RD. NO. 171
CINCINNATI-BATAVIA PIKE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CLERMONT COUNTY
CLE-275-6.68

ESTIMATED QUANTITIES

DRAINAGE

REF NO.	STATION TO STATION	SIDE	602 Concrete Masonry Cu. Yds.	603 12" Conduit Type D Lin. Ft.	603 15" Conduit Type A 706.02 Cl. III Lin. Ft.	640 Sodding Sq. Yds.	640 Sodding for Special Slope & Berm Protection Sq. Yds.	667 Jute Matting Sq. Yds.	SEE SHEET NO.
	45+50 – 58+50								
1-D	52+60	℄	0.52		120	2			463
2-D	47+81 – 48+70	Lt.					21	146	
3-D	47+45 – 48+62	Rt.					21	150	
4-D	51+46 – 52+45	Lt.					37	351	
5-D	51+21 – 52+46	Rt.					39	461	
6-D	56+82 – 57+18	Rt.		36					
7-D	Not Used								
TOTAL			0.52	36	120	2	118	1108	

CALC. DE DATE 6/26/62
CHK'D RH DATE 5/2/63

ROADWAY & PAVEMENT

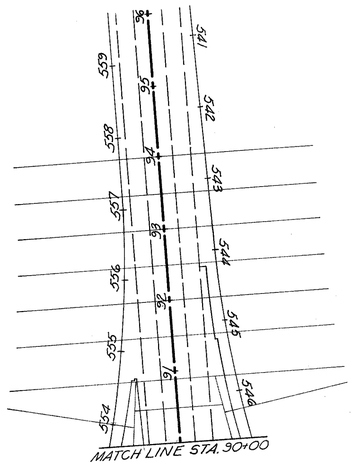
REF NO.	STATION TO STATION	SIDE	202 Pipe Removed Backfilled Under Lin. Ft.	606 Std. Type 5 Guard Rail Lin. Ft.	606 Approach End Assembly Each	606 Bridge Terminal Assembly Each	301 6"-Bit. Aggregate Base Cu. Yds.	304 Aggregate Base 5" Cu. Yds.	304 Aggregate Base 8" Cu. Yds.	310 Subbase Cu. Yds.	402 Aggregate Concrete 1¼" Cu. Yds.	402 Aggregate Concrete 2" Cu. Yds.	404 Asphalt Concrete 1¼" Cu. Yds.	404 Asphalt Concrete 2" Cu. Yds.	408 Bituminous Prime Coat Gals.	605 Aggregate Drain Lin. Ft.	611 Reinf. Conc. App. Slab T-13" Sq. Yds.	SEE SHEET NO.
	ROADWAY 45+50 – 58+50																	
1-R	47+29.70 – 48+29.70	Lt.		100	1	1												
2-R	47+15.96 – 48+15.96	Rt.		100	1	1												
3-R	51+92.04 – 54+67.04	Lt.		275	1	1												
4-R	51+78.30 – 55+40.80	Rt.		362.5	1	1												
5-R	47+19 – 47+19	Rt.	40															
	PAVEMENT																	
	45+50 48+15.32						117			101	24		24			96		
	51+92.68 58+50						295			256	60		60			125		
1-P	48+15.32 – 48+40.32	℄								16							39	
2-P	51+67.68 – 51+92.68	℄								16							39	
3-P	46+25	Lt.					62			53	13		13					
4-P	47+00	Lt.							27									
5-P	46+30	Rt.						13						5	37			
6-P	54+93	Lt.						23						8	61			
7-P	57+00	Rt.							24									
TOTAL			40	837.5	4	4	474	87		442	97		110		98	221	198	

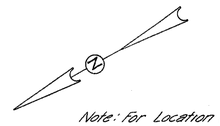
QUANTITIES
CO. RD. NO. 171 (CINCINNATI - BATAVIA PIKE)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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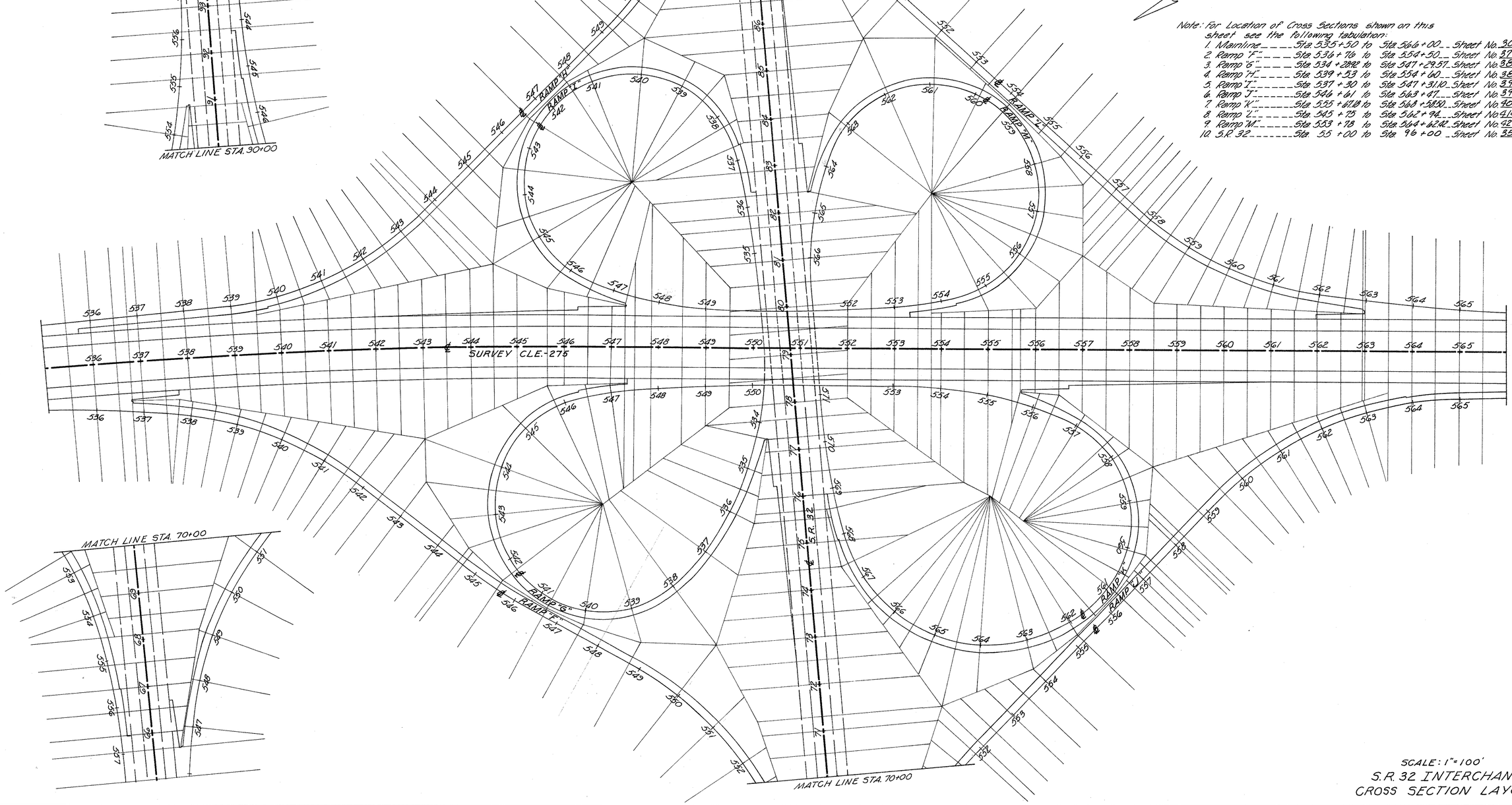
CLERMONT COUNTY
CLE.-275-6.68





Note: For Location of Cross Sections shown on this sheet see the following tabulation:

1. Mainline	Sta 535+50	to	Sta 566+00	Sheet No. 304-324
2. Ramp "F"	Sta 536+76	to	Sta 554+50	Sheet No. 377-381
3. Ramp "G"	Sta 534+282	to	Sta 547+295	Sheet No. 382-386
4. Ramp "H"	Sta 539+53	to	Sta 554+60	Sheet No. 387-393
5. Ramp "J"	Sta 537+30	to	Sta 547+311.0	Sheet No. 394-396
6. Ramp "J"	Sta 563+47	to	Sta 563+61	Sheet No. 397-405
7. Ramp "K"	Sta 555+617.8	to	Sta 568+585.0	Sheet No. 406-413
8. Ramp "L"	Sta 545+75	to	Sta 562+94	Sheet No. 414-421
9. Ramp "M"	Sta 553+78	to	Sta 564+642	Sheet No. 422-425
10. S.R. 32	Sta 55+00	to	Sta 98+00	Sheet No. 355-372



SCALE: 1"=100'

S.R. 32 INTERCHANGE
CROSS SECTION LAYOUT

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68

MATCH LINE STA. 65+00

(F-D) 601 Rock Channel Protection Type B (5'x11'+6'x6')x2/27= 11 Cu. Yds.

(G-D) 601 Rock Channel Protection Type B (5'x11'+6'x14')x2/27= 10 Cu Yds

(1-D) 667 Jute Matting 11'-0" Wide

(2-D) Sta. 63+00.53 End 100' Taper

(3-D) Sta. 64+25.18 S.E. 32 = Sta. 10+00 Aicholtz Rd.

(4-D) P.T. Sta. 64+26.10

(5-D) Sta. 11+72 Aicholtz Rd. = Sta. 0+00 Turnaround

(6-D) Pipe to be Removed From this Point Backward

(J-1) Note: For Ramp "J" Curve Data See Sht. No. 85

Note: For Turn-around Profile & Cross Sections See Sht. No. 436

Note: For Ramp J Quantities See Shi. No. 88

CURVE DATA
P.I. Sta. 60 + 98.64
Δ = 2° 11' 00" Rt.
Dc = 0° 20'
R = 17,188.74'
L = 655.00'
T = 327.54'
E = 3.12'

Sta. 57+66.78 Begin 100' Taper
P.C. Sta. 57 + 71.10
Sta. 58+66.78 End 100' Taper
Begin 920' Taper Sta. 55 + 80.00

B.M. Spike in Wooden R/W Post 75'Rt Sta. 60+50 S.R.32 Elev. 859.53

Note: The Existing Pavement Outside the Construction Limits but Within the R/W Limits From Sta. 58+40 to Sta. 61+50 Lt. Sta. 63+75 Lt. and Sta. 64+75 Rt. Shall be Removed and Earth Backfilled. Payment for Removal Shall be Included in Item 203 Excavation not Including Embankment. Earth Backfill Shall be Included in Item 203 Embankment. For Quantities see Sheet No. 357

CINCINNATI-BATAVIA PIKE
(CO. RD. NO. 171)
RUST LANE
Exist. L.A.
Exist. R/W
Existing 2-2'A C.B.
Concrete Pavement
Existing 6" Underdrain
Existing 108" Conduit
Exist. Catch Basin
Woven Wire
Gravel
Septic Tank
Leach Area
Lawn
Gas Tank
Cistern
Transition Shoulder Width from 10' to 11'.
Temporary Easement
For Continuation of Channel See Sheet No. 93

Sta 0+45 End Work Shrubs
603.44' 12" Conduit Type D @ 3.00%
Sta. 11+49.20 Inv. 12" = 836.38
Sta 11+72 Aicholtz Rd.
Inv. 12" = 836.38
Inv. 18" = 835.78
Sta. 0+00 Turnaround
Inv. 12" = 836.38
Inv. 18" = 835.78
Inv. 12" = 836.38
Inv. 18" = 835.78
Sta. 64+25.18 S.E. 32 = Sta. 10+00 Aicholtz Rd.
Sta. 64+26.10 P.T.
Sta. 63+00.53 End 100' Taper
Sta. 0+00 Turnaround
Sta. 11+72 Aicholtz Rd.
Sta. 543+93.76 P.C.C.
Inv. 18" = 835.78
Inv. 18" = 835.78
Inv. 18" = 835.78

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE. - 275 - 6.68

For Quantities see Sheet Nos. 80

Lawn
Transition Shoulder Width from 10' to 11'.
Wooded Area
Field
Exist. L.A.
Woven Wire
Exist. Septic Tank
Exist. Leach Area
Exist. Cistern
Exist. Car Port
Exist. 1 Sty. Brick #4506
Exist. Blk. Wall
Exist. Chain Link
Exist. Mac. Gravel
Exist. Conc.
Exist. Temp. Ease.
Exist. R/W
Exist. Utility Pole
Exist. Fence
Exist. Drive
Exist. Sign
Exist. Tree
Exist. Rock Outcrop
Exist. Boulder
Exist. Culvert
Exist. Catch Basin
Exist. Manhole
Exist. Inlet
Exist. Gas Valve
Exist. Water Valve
Exist. Gas Meter
Exist. Water Meter
Exist. Mail Box
Exist. Gas Line
Exist. Water Line
Exist. Telephone Line
Exist. Underground Telephone Line
Exist. Underground Electric Line
Exist. Overhead Electric Line
Exist. Underground Cable TV Line
Exist. Overhead Cable TV Line
Exist. Underground Gas Line
Exist. Underground Water Line
Exist. Underground Telephone Line
Exist. Underground Electric Line
Exist. Overhead Electric Line
Exist. Underground Cable TV Line
Exist. Overhead Cable TV Line
Exist. Underground Gas Line
Exist. Underground Water Line

P.T. No. 1 Sta. 550+62.67
P.C.C. Sta. 554+62.67
Sta. 553+00
LA R/W
RAMP "F" 553
554
556 6" Underdrain 555
91°23'36" Tan to Curve
Sta. 66+00
Existing 6" Underdrains
Sta. 65+66.78
Sta. 66+66.78
90° Sta. 65+67.96, 59.11 Rt.
See Sht. No. 470
Ramp J Sta. 547+56.89 30" Lt.
See Sheet No. 470
Existing 6" Underdrains
Woven Wire
Exist. L.A.
667 Jute Matting 7'-6" Wide
RAMP "J" 549
6" Underdrain
548
547
Leach Area
Septic Tank
Car Port
1 Sty. Brick #4506
Cistern
Blk. Wall
Septic Tank
Leach Area
Chain Link
Welded Wire
Mac. Gravel
Conc.
Lawn
Temp. Ease.
R/W
Exist. R/W
Sta. 546+49 "J"
See Sht. No. 384
Aicholtz Rd.
Sta. 6+31.56 152' Rt.
See Sht. No. 471
(SR. 32 Sta. 547+34.56)
(SR. 32 Sta. 548+90.86)
(SR. 32 Sta. 549+34.56)
(SR. 32 Sta. 550+62.67)
(SR. 32 Sta. 551+90.86)
(SR. 32 Sta. 552+34.56)
(SR. 32 Sta. 553+90.86)
(SR. 32 Sta. 554+62.67)
(SR. 32 Sta. 555+34.56)
(SR. 32 Sta. 556+90.86)
(SR. 32 Sta. 557+34.56)
(SR. 32 Sta. 558+62.67)
(SR. 32 Sta. 559+34.56)
(SR. 32 Sta. 560+90.86)
(SR. 32 Sta. 561+34.56)
(SR. 32 Sta. 562+62.67)
(SR. 32 Sta. 563+34.56)
(SR. 32 Sta. 564+90.86)
(SR. 32 Sta. 565+34.56)
(SR. 32 Sta.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE-275-668

ESTIMATED QUANTITIES

DRAINAGE

REF. NO.	STATION TO STATION		SIDE	601 Rock Channel Protection Type B Cu. Yds.	602 Concrete Masonry Cu. Yds.	603 6" Conduit Type F Lin. Ft.	603 12" Conduit Type B Lin. Ft.	603 12" Conduit Type B 706.02 & 706.01 Lin. Ft.	603 12" Conduit Type D Lin. Ft.	603 12" Conduit Type F Lin. Ft.	603 24" Conduit Type C 706.04 or 706.05 or 707.13 Lin. Ft.	603 33" Conduit Type B 706.02 Cl. III or 706.08 Lin. Ft.	603 33" Conduit Type C 706.02 Cl. III or 707.13 Lin. Ft.	603 36" Conduit Type C 706.02 Cl. III or 707.13 12 Ga. Lin. Ft.	604 Std. No. 4 Catch Basin Each	604 Std. No. 5 Catch Basin Each	604 Std. No. 6 Catch Basin Each	604 Std. No. 1 Manhole Each	604 Std. No. 2 Manhole W/o Drop Pipe Each	605 6" Underdrain Shallow Lin. Ft.	660 Sodding Sq. Yds.	667 Jute Matting Sq. Yds.	6"x6"x60" Bend	6"x6"x6" Wye	33"x12" Tee	SEE SHEET NO.
	54+60	65+00											1											
1-D	54+60	63+00	Lt.									1039												
2-D	53+60	63+00.33	Rt.															447			1	1		
3-D	60+80	65+00	Lt.															226			1	1		
4-D	11+33	12+20 Aicholtz Rd.	Lt.		046				44															71
5-D	63+37		Lt.	11																				
6-D	64+03		Lt.	10																				
7-D	Not Used																							
8-D	Not Used																							
	65+00	80+00																						
9-D	65+00	66+00	Lt.															100						
10-D	73+10	73+25	Lt.															15						
11-D	73+45.96	80+00	Lt.															54						
12-D	65+18	65+40	Rt.			10												40				1		
13-D	77+72	78+06	Rt.			10												62				1		
14-D	78+24.17	80+00	Rt.															176						
15-D	65+20		Rt.		023			34											1				1	357
16-D	Ramp G 534+74	Ramp K 536+70	Lt. & Rt.								168					1							1	466
17-D	Ramp K 536+70	SR 32 78+06	Rt.										126				1							468
18-D	78+06	78+33.5	Rt.									30					1							468
19-D	78+33.5	80+00	Rt.									103												468
20-D	65+67.96	547+36.89 Ramp J	Rt.				102								1									470
21-D	76+65	76+83	&							20				1		1				125				
22-D	72+00	534+74 Ramp G	Lt.								434			1						172				
TOTAL				21	063	20	102	34	44	20	434	168	133	126	1	1	1	1	2	1120	1	1336			

ROADWAY & PAVEMENT

CALC. REQ. DATE 6/30/68
CHK'D [illegible] DATE 5/2/68

REF. NO.	STATION TO STATION		SIDE	202 Pipe Removed 24" and Under Lin. Ft.	202 Pipe Removed Over 24" Lin. Ft.	202 Existing Pavement Removed & Disposed of Sq. Yds.	202 Catch Basin Removed As Per Plan Each	Special Cleaning & Disposal of Septic Tank Each	606 Guard Rail Type 5 Lin. Ft.	606 Guard Rail Barrier Type 5 Lin. Ft.	606 Guard Rail Type 4 Lin. Ft.	606 Approach End Assembly (Single Face) Each	606 Anchor Assembly Each	606 Approach End Assembly Barrier Rail Each	301 3" Bit. Aggregate Base Cu. Yds.	304 Aggregate Base Cu. Yds. 6"	304 Aggregate Base Cu. Yds. 12"	310 Subbase Cu. Yds.	402 1½ Asphalt Concrete (85-100) Cu. Yds.	404 1½ Asphalt Concrete (85-100) Cu. Yds.	408 Bit. Prime Coat 706.03 R.T.F. or C.R.S.-P.3 Gals.	409 Seal Coat Cover Aggregate Cu. Yds.	409 Seal Coat Bituminous Gals.	451 9" Reinf. Portland Cement Conc. Pavement Sq. Yds.	SEE SHEET NO.
	54+58	65+00																							
1-R	61+00	65+00				753																			
2-R	62+37		Lt.					1																	
3-R	63+30		Rt.	32																					
4-R	8+72	352 Aicholtz Rd.	Rt.			333																			
5-R	10+47	11+27 Aicholtz Rd.	Lt.			347																			
6-R	64+29		Lt.	28																					
7-R	11+34 Aicholtz Road		Lt.								25														
8-R	63+80	64+11	Rt.			27																			
9-R	Not Used																								
	65+00	80+00																							
10-R	73+15.00	80+00	Lt.						1975				1												
11-R	77+07	80+00	Lt. & Rt.						536	25		-		1											
12-R	77+00.30	80+00	Rt.						300			1													
13-R	76+83		Lt.			21																			
14-R	76+83		Lt.			21																			
15-R	73+12		&				1																		
16-R	73+30	73+34	Lt.		32																				
17-R	73+04	73+06	Rt.		8																				
18-R	65+00	68+03	Lt.			202																			
	PAVEMENT																								
	54+58	65+00																							
1-P	63+67	65+00	Lt.												5	10		8				1	18		
2-P	64+01	64+84	Rt.												14	28		21				1	51		
3-P	11+72 Aicholtz Road		Lt.														27		3	3	31				
4-P	Not Used																								
	63+00	80+00																							
5-P	63+00	68+03	Lt.												11	22		17				1	10		
6-P	76+83		Lt.																					21	
7-P	76+83		Rt.																					21	
TOTAL				60	40	1706	1	1	9835	25	25	11	1	1	30	87	46	3	3	31	3	109	42		

QUANTITIES
S.R. 32 STA. 50+00 ~ STA. 80+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68

REFERENCE P.O.T. STA. 85+50
S.R. 32
Pav't. Edge
HUB
Pav't. Edge

REFERENCE P.O.T. STA. 91+00
S.R. 32
Pav't. Edge
HUB
Pav't. Edge

For Continuation See Sht. No. 81

MATCH LINE STA. 80+00

MATCH LINE STA. 95+00

Ramp I Sta 538+00 25' Lt. See Sht No. 469

667 Jute Matting 7'-6" Wide

667 Jute Matting 7'-6" Wide

30" Conduit

Exist. L.A.

Woven Wire

S.R. 32 Sta 87+82.23 Lt. See Sheet No. 469

Ramp H Sta 554+64 12' Lt. See Sheet No. 469

SR 32 Sta 90+92 53.7' Lt. See Sht No. 468

Transition Shoulder Width From 11' To 10'

Existing 6" Underdrain

Concrete Pavement

Sta. 80+25.46

Sta. 80+29.13

Sta. 82+41.59

Sta. 82+43.73

Sta. 82+00 See Sheet No. 468

Sta. 87+21.59

Sta. 89+93.14

Sta. 90+93.14

Sta. 92+43.34

Sta. 92+42.76, 31.7' Rt. See Sht. No. 470

Sta. 92+33.6 See Sht. No. 442

Sta. 93+50.86

S. 65° 59' 10" E.

S. R. 32

84°23'03" Tan. To Curve

91°25'56" Tan to Curve

169°48'01"

Ramp M Sta 563+70.7 Lt. See Sheet No. 460

Ramp M Sta 563+62.25 Lt. See Sheet No. 460

Woven Wire

Exist. L.A.

27" Conduit

18" Conduit

33" Conduit

667 Jute Matting 7'-6" Wide

24" Conduit

SR 32 Sta 86+17.159' Rt. See Sheet No. 468

5 Str. Barbed Wire

SR 32 Sta 81+79 835' Rt. See Sht No. 460

Ramp L Sta 548+75 25' Lt. See Sheet No. 468

667 Jute Matting 7'-6" Wide

End Curb Sta. 546+84

P.C.C. Sta. 546+23.32

P.C. Sta. 544+93.32

Transition Shoulder Width From 11' To 10'

6.0 Sodding 1'-6" Wide

6.0' Riprap

Water Service from Aicholtz Road

For Quantities See Sheet Nos. 84 & 92

15th St. Br. Business

Ramp M Sta 563+62.42

Nose P.C. Sta. 564+67.42

P.T. Sta. 566+73.93

P.C. Sta. 534+05.37 "I"

P.T. Sta. 549+79.88 "I"

Ramp H P.C. Sta. 553+63.85 "H"

Ramp H P.T. Sta. 557+18.85 "H"

For Continuation of Ramp "M" See Sht. No. 89

For Quantities See Sheet No. 76

Note: For Ramp Curve Data
Ramps "H" & "I" See Sht. No. 81
Ramps "L" & "M", See Sht. No. 89

203 Excavation	14,113	Cu. Yds.
203 Embankment	8,439	Cu. Yds.
659 Seeding & Mulching	34,658	Sq. Yds.

Sta 80+00, 58' Lt.
IE 6" Underdrain Elev. 862.48

Sta 80+23.13, 58' Rt.
IE 6" Underdrain Elev. 862.34
For Continuation of Underdrain
See Ramp M Sheet No. 91

Exist. 6" Underdrain

Exist. Catch Basin

Sta 80+25.46 58' Lt.
IE 6" Underdrain Elev. 862.24
For Continuation of Underdrain
See Ramp I Sheet No. 85

Sta 80+00 58' Rt.
IE 6" Underdrain Elev. 862.41

Sta 92+69 46' Rt.
End 6" Underdrain Elev. 859.12

Sta 92+41 46' Rt.
IE 6" Underdrain Elev. 859.00
Outlet into "G" C.B. 57.12' Rt.
of Sta. 92+42.76

Sta 92+78 46' Lt.
Existing 6" Underdrain Elev. 858.8±

Sta 92+98 90' Lt.
Outlet 6" Underdrain Elev. 856.0

Exist. Catch Basin

2%

Sta 92+75 68.2' Rt.
Begin 6" Underdrain Elev. 858.37

6" Gas Line w/ 12" Casing

Sta 93+50.86 58' Lt.
IE 6" Underdrain Elev. 857.98
For Continuation of Underdrains
See Ramp H Sheet No. 82

Sta 95+00 62.6' Rt.
IE 6" Underdrain Elev. 857.56

Sta 95+00 58' Lt.
IE 6" Underdrain Elev. 857.62

870
860
850
840
830

866.72 866.82 866.62 866.42 866.22 866.02 865.82 865.62 865.42 865.22 865.02 864.82 864.62 864.42 864.22 864.02 863.82 863.62 863.42 863.22 863.02 862.82 862.62 862.42 862.22 862.02 861.82 861.62 861.42 861.22 861.02

80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95

S.R. 32 STA. 80 - STA. 95

CALC. REA DATE 6/30/67

CHK'D Bend DATE 7/12/67

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.~27.5~6.68

REFERENCE P.O.T. STA. 102+55.97
℄ S.R. 32
Pavt. Edge
Pavt. Edge

MATCH LINE STA. 95+00

LA/R/W

Sta. 97+23.14 Begin Taper

Sta. 98+23.14 End Taper

6" Underdrain

Existing 6" Underdrains

Sta. 35+43 See Sht. No. 462

℄ S.R. 32

Sta. 101+69.04 End 9:1 Taper

Sta. 101+69.04 S.R. 32

LA/R/W

1514 Br. Business

Woven Wire Fence

Wooded Area

Exist. L.A.

Woven Wire

Sta. 105+44.13 Begin Taper

Sta. 105+30, 2' Lt.

667 Jute Matting

3.65°-5.0'-10' L.A.

Sta. 105+50 Ex. 27" Cond.

Sta. 105+94.13 End Taper

Grade

Sta. 106+00 Exist. C.B. 2.2A

Sta. 106+96.33 Begin Taper

Existing 6" Underdrains

Concrete

Sta. 106+40 S.R. 32 = Sta. 49+60.72 Rel. Aicholtz Rd.

To be Removed

Existing 6" Underdrains

Concrete

Sta. 105+94.16 Begin Taper

Sta. 105+94.16 End Taper

Woven Wire

Exist. L.A.

Sta. 107+05.81

Sta. 107+30.81 Begin Taper

Sta. 110+30.81 End Taper WORK

Sta. 107+46.33 End Taper

667 Jute Matting 4'-0" Wide

Construction Limits

Construction Limits

RELOCATED AICHOLTZ ROAD

B.M. Spike in Brace Post of R/W Fence. N. Side of S.R.32 at Sta. 105+62 Elev. 868.40

Note: For Intersection Detail See Sht. No. 117

For Quantities See Sht. No. 76

For Paving Legend See Sht. No. 29

Note: For Reloc. Aicholtz Rd Plan & Profile See Sht. No. 94 & 95

Sta. 95+16.62 2' Lt. End 6" Underdrain I.E. Elev. 857.72

Sta. 95+24.62 2' Rt. Begin 6" Underdrain I.E. Elev. = 857.50

Sta. 95+53.46' Lt. Connect to Existing 6" Underdrain I.E. 857.7±

Sta. 95+57.58' Lt. 6" Underdrain I.E. Elev. 857.48

Sta. 95+65.58' Lt. Begin 6" Underdrain I.E. Elev. 857.24

Sta. 95+68.82' Rt. Outlet 6" Underdrain I.E. Elev. 855.89

Sta. 97+93.58' Lt. 6" Underdrain I.E. Elev. 856.60

Sta. 98+00.46' Lt. Connect to Existing 6" Underdrain I.E. 856.6 ±

18"

Sta. 95+12.81' Rt. Outlet 6" Underdrain I.E. Elev. 857.50

Sta. 95+01.46' Rt. 6" Underdrain I.E. Elev. 857.8 ±

Sta. 95+00.58' Rt. Connect to Exist. 6" Underdrain I.E. Elev. 857.62

Sta. 95+00.62.6' Rt. 6" Underdrain I.E. Elev. 857.56

Existing 6" Underdrain

Exist. Catch Basin

27"

Sta. 97+81.46' Rt. Connect to Existing 6" Underdrain I.E. 856.6 ±

Sta. 97+61.56.1' Rt. 6" Underdrain I.E. Elev. 856.87

Sta. 105+30, 2' L.t. 609 Std. No. 5 C.B. I.E. Grate 854.54 Inv. 12" 851.54 Turn Exist. Tee Over

Exist. Catch Basin

27½"

12"

Inv. 12" 850.24

609, 20' × 12" Conduit Type C @ 6.50%

203 Excavation	5,951	Cu. Yds.
203 Embankment	368	Cu. Yds.
659 Seeding & Mulching	9.884	Sq. Yds.

CALC. R.J.E. DATE 10/24/69

CHK'D DATE 10/25/69

S.R. 32 STA. 95+00 ~ STA. 110+30.81

	860	850	840	830	820
95	861.02	860.82	860.62	860.42	860.22
96	860.02	859.82	859.62	859.42	859.22
97	860.02	859.82	859.62	859.42	859.22
98	860.02	859.82	859.62	859.42	859.22
99	860.01	856.57	856.21	855.82	855.42
100	855.02	854.62	854.22	853.82	853.42
101	853.02	852.62			
102	852.22				
104	852.22				
105	856.57	856.21	855.82	855.42	855.02
106	854.62	854.22	853.82	853.42	853.02
107	852.62				
108	854.22	853.82	853.42	853.02	852.62
109	852.62				
110	852.62				
111	852.62				
112	852.62				

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE. - 275-6.68

ESTIMATED QUANTITIES

DRAINAGE

REF NO.	STATION TO STATION	SIDE	601 Concrete Riprap Sq. Yds.		602 Concrete Masonry Cu. Yds.		603 6" Conduit Type B Lin. Ft.	603 6" Conduit Type F Lin. Ft.	603 12" Conduit Type B Lin. Ft.	603 12" Conduit Type C Lin. Ft.	603 18" Conduit Type A 706.01 706.02 Lin. Ft.	603 18" Conduit Type B 706.02 Lin. Ft.	603 24" Conduit Type A 706.02 Cl. III Lin. Ft.	603 30" Conduit Type B Lin. Ft.	603 30" Conduit Type C Lin. Ft.	603 33" Conduit Type C 706.02 Cl. III or 706.05 Lin. Ft.	604 Std. No. 4 Catch Basin Each	604 Std. No. 5 Catch Basin Each	604 Std. No. 6 Catch Basin Each	604 Std. No. 1-A Manhole Each	604 Std. No. 2 Manhole w/o Drop Pipe Each	605 6" Underdrain Shallow Lin. Ft.	660 Sodding Sq. Yds.	667 Jute Matting Sq. Yds.		6"xG"x30° Bend	6"xG"x60° Bend	6"xG"x6" Wye	6"xG"x6" Tee	6"xG"x30° Wye		SEE SHEET NO.
	80+00 — 95+00																														
1-D	80+00 — 80+25.46	Lt.																				26									
2-D	92+78 — 92+98	Lt.						10														41									
3-D	93+50.86 — 95+00	Lt.																				149									
4-D	80+00 — 80+23.19	Rt.																				24									
5-D	92+41 — 92+69	Rt.						6														28									
6-D	92+75 — 95+00	Rt.						10														215									
7-D	80+00 — 81+79	Rt.														179					1										468
8-D	81+79	Rt.										22																			468
9-D	Not Used																														
10-D	538+00 Ramp I 87+82	Lt.												384			1							250							469
11-D	87+82 -554+64 Ramp H	Lt.												316				1						169							469
12-D	90+92 -554+64 Ramp H	Lt.							38										1												469
13-D	554+64 -556+54 Ramp H	Lt.			0.51										190					1				2							469
14-D	92+83	Lt.			0.41								20											2							462
15-D	92+83	Rt.	28		0.41								28											15							462
16-D	Not Used																														
17-D	Not Used																														
	95+00 — 110+04.53																														
18-D	95+00 — 95+57	Lt.						10														83					1	1			
19-D	95+65 — 98+00	Lt.					14															228						1	1		
20-D	95+00 — 95+16	Rt.					16	10														30				1				1	
21-D	95+24 — 97+81	Rt.					23															237									
22-D	95+43	Lt.			0.30						18												2								462
23-D	95+43	Rt.	27		0.30						22												11								462
24-D	105+00 — 105+50	℄								50								1							22						
25-D	Not Used																														
26-D	Not Used																														
TOTAL			55		1.93		53	46	38	50	40	22	48	700	190	179	1	2	1	1	1	1061	32	441		1	1	3	1	1		

CALC. BJR DATE 10/24/62

CHK'D RH DATE 10/25/62

ROADWAY & PAVEMENT

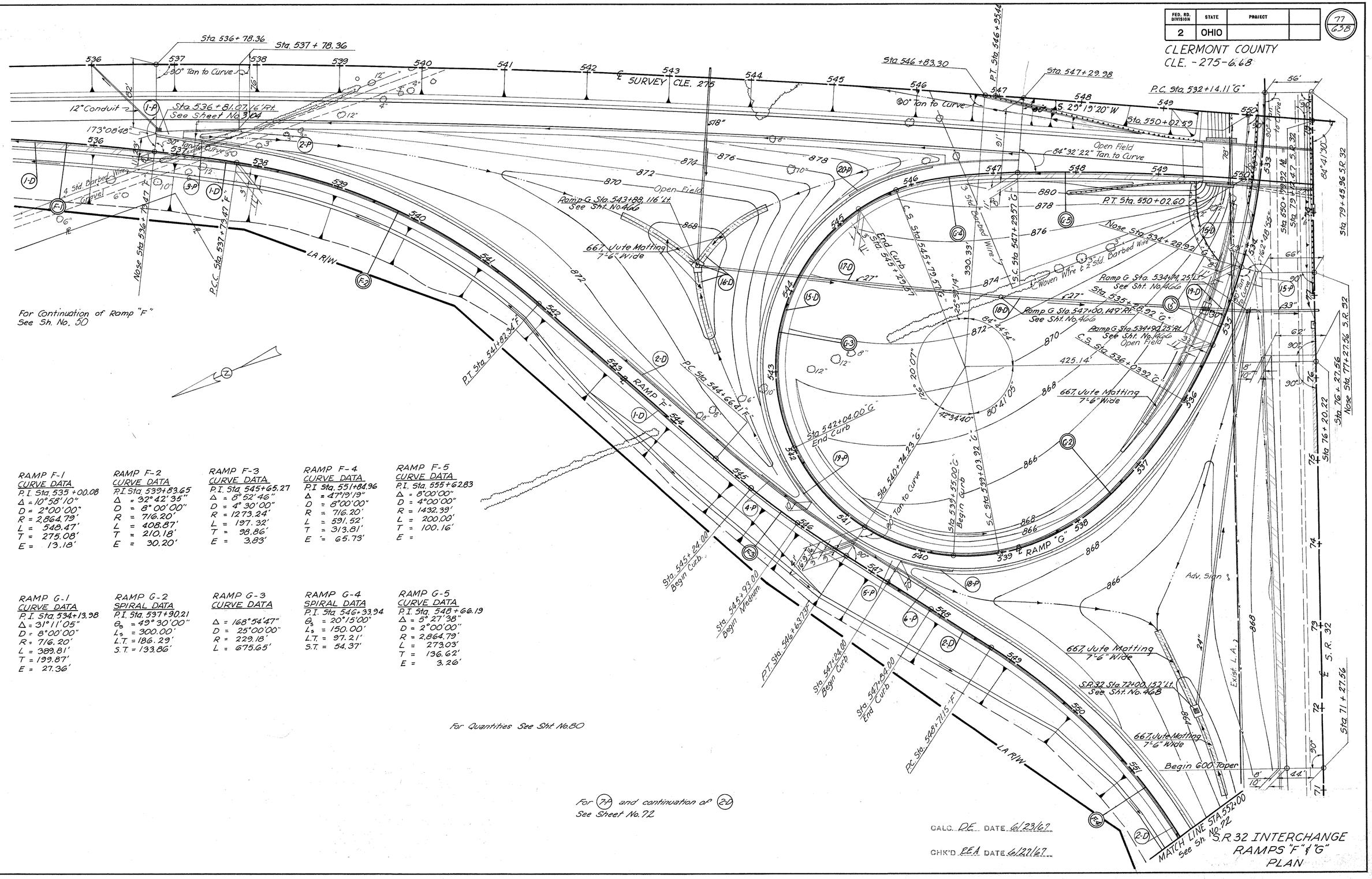
REF NO.	STATION TO STATION	SIDE	202 Pipe Removed 24" & Under Lin. Ft.	202 Catch Basin Removed Each			606 Std. Type 5 Guard Rail Lin. Ft.	606 Guard Rail Barrier Type 5 Lin. Ft.	606 Approach End Assembly Single Rail Each	606 Anchor Assembly Each	606 Approach End Assembly Barrier Rail Each												301 3" Bit. Aggregate Base Cu. Yds.	304 6" Aggregate Base Cu. Yds.	310 Subbase Cu. Yds.	409 Seal Coat Bituminous Gals.	409 Seal Coat Cover Aggregate Cu. Yds.	451 9" Reinf. Portland Cement Concrete Pavement Sq. Yds.			SEE SHEET NO.
	80+00 — 95+00																														
1-R	80+00 — 81+27.50	Lt.					125		1																						
2-R	80+00 — 81+19.50	Lt. & Rt.					189	25			1																				
3-R	80+00 — 80+13.00	Rt.					12.5			1																					
4-R	Not Used																														
5-R	Not Used																														
	95+00 — 110+30.81																														
7-R	105+30 — 106+00	℄	50	1																											
8-R	Not Used																														
	PAVEMENT																														
	80+00 — 95+00																														
1-P	Not Used																														
2-P	Not Used																														
	95+00 — 110+30.81																														
3-P	107+32.46 — 110+30.81	Lt. & Rt.																					20	40	159	74	2	777			
4-P	Not Used																														
TOTAL			50	1			326.5	25	1 1	1	1 1												20	40	159	74	2	777			

QUANTITIES
S.R. 32 STA. 80+00 — STA. 110+30.81

FED. RD. DIVISION	STATE	PROJECT	
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CLERMONT COUNTY
CLE. -275-6.68



RAMP F-1
CURVE DATA
P.I. Sta. 535+00.08
Δ = 10°58'10"
D = 2°00'00"
R = 2,864.79'
L = 548.47'
T = 275.08'
E = 13.18'

RAMP F-2
CURVE DATA
P.I. Sta. 539+83.65
Δ = 32°42'35"
D = 8°00'00"
R = 716.20'
L = 408.87'
T = 210.18'
E = 30.20'

RAMP F-3
CURVE DATA
P.I. Sta. 545+65.27
Δ = 8°52'46"
D = 4°30'00"
R = 1273.24'
L = 197.32'
T = 98.86'
E = 3.83'

RAMP F-4
CURVE DATA
P.I Sta. 551+84.96
Δ = 47°19'19"
D = 8°00'00"
R = 716.20'
L = 591.52'
T = 313.81'
E = 65.73'

RAMP F-5
CURVE DATA
P.I. Sta. 555+62.83
Δ = 8°00'00"
D = 4°00'00"
R = 1432.39'
L = 200.00'
T = 100.16'
E =

RAMP G-1
CURVE DATA
P.I. Sta. 534+13.98
Δ = 31°11'05"
D = 8°00'00"
R = 716.20'
L = 389.81'
T = 199.87'
E = 27.36'

RAMP G-2
SPIRAL DATA
P.I. Sta. 537+90.21
θ_s = 49°30'00"
L_s = 300.00'
L.T. = 186.29'
S.T. = 133.86'

RAMP G-3
CURVE DATA
Δ = 168°54'47"
D = 25°00'00"
R = 229.18'
L = 675.65'

RAMP G-4
SPIRAL DATA
P.I. Sta. 546+33.94
θ_s = 20°15'00"
L_s = 150.00'
L.T. = 97.21'
S.T. = 54.37'

RAMP G-5
CURVE DATA
P.I. Sta. 548+66.19
Δ = 5°27'38"
D = 2°00'00"
R = 2,864.79'
L = 273.03'
T = 136.62'
E = 3.26'

For Quantities See Sht No. 80

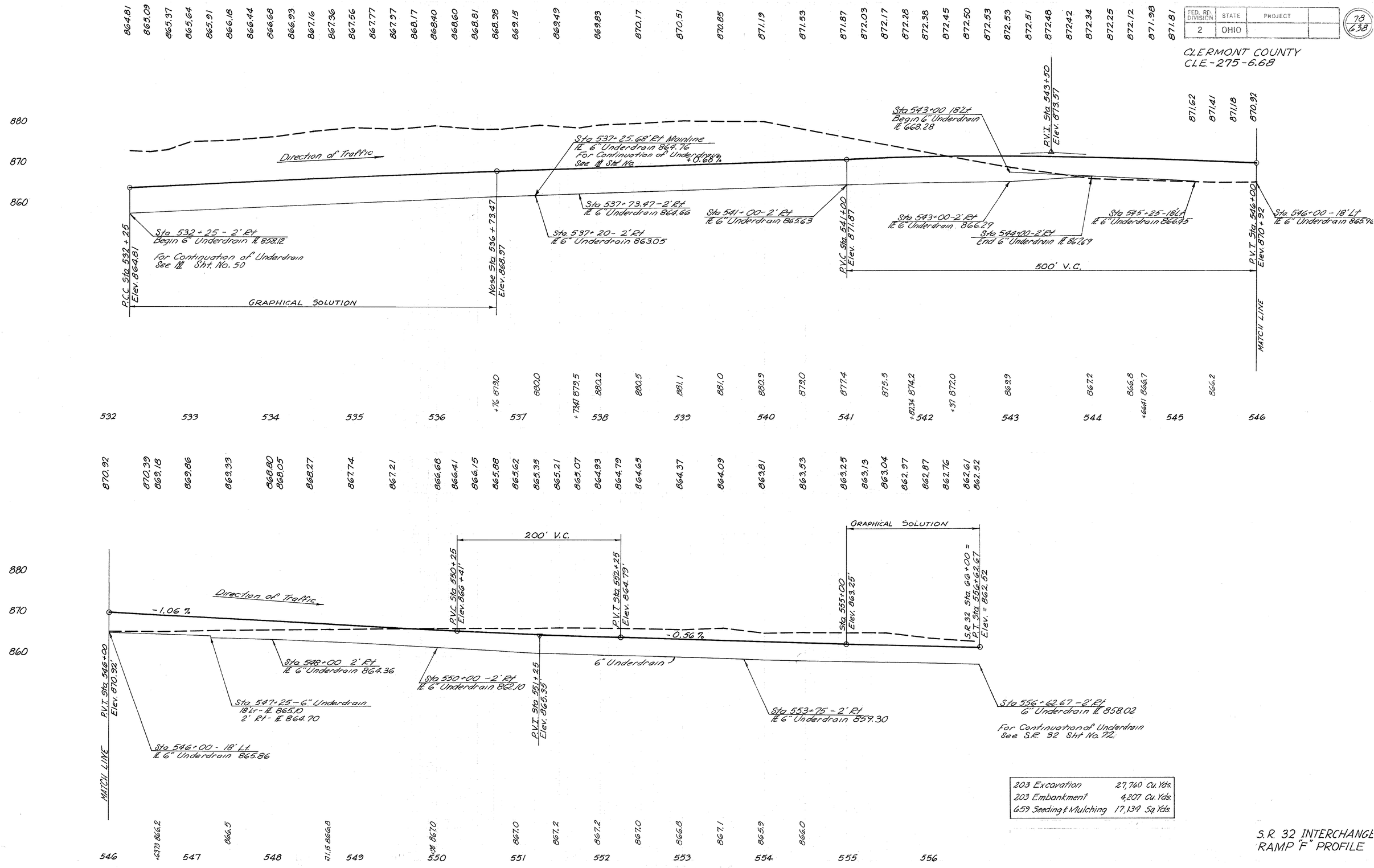
For (7-P) and continuation of (2-D)
See Sheet No. 72

CALC. DE DATE 6/23/67
CHK'D RCA DATE 6/29/67

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

18
638

CLERMONT COUNTY
CLE.-275-6.68



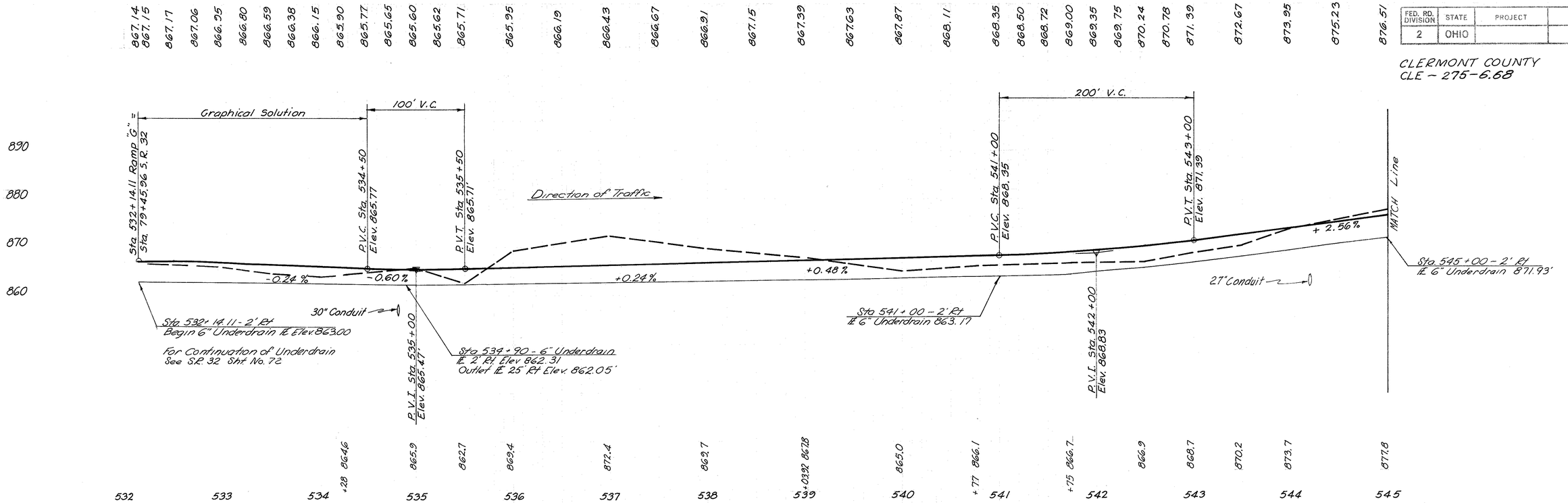
203 Excavation	27,760 Cu. Yds.
203 Embankment	4,207 Cu. Yds.
659 Seeding & Mulching	17,139 Sq. Yds.

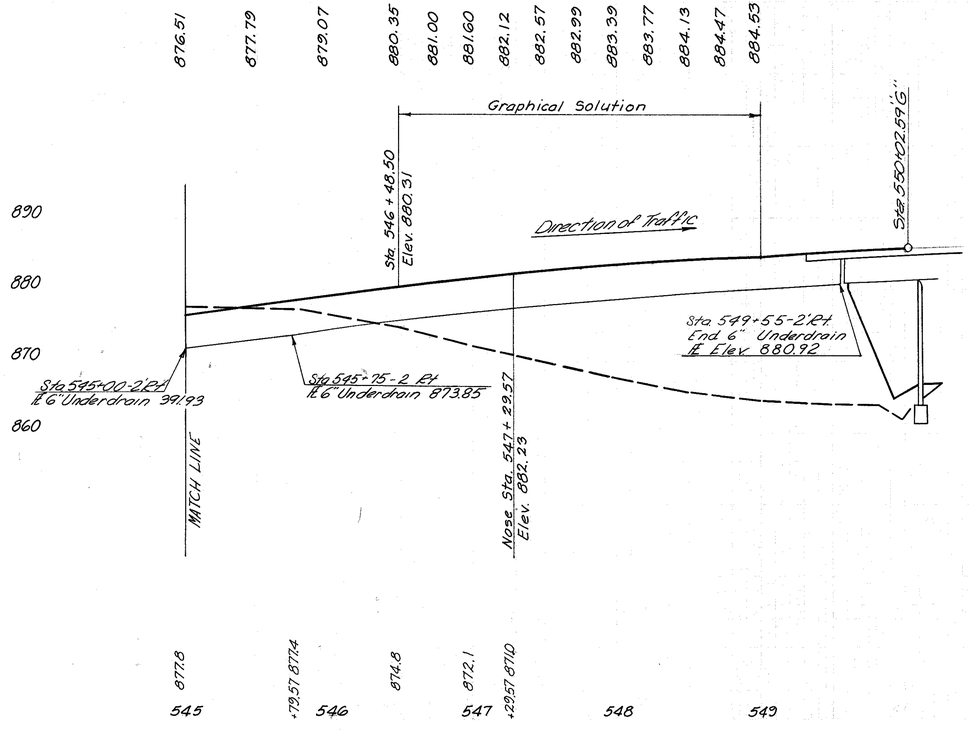
S.R. 32 INTERCHANGE
RAMP "F" PROFILE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

79
638

CLERMONT COUNTY
CLE – 275–6.68





203 Excavation	23,212	Cu. Yds.
203 Embankment	10,820	Cu. Yds.
659 Seeding & Mulching	24,081	Sq. Yds.

S.R. 32 INTERCHANGE
RAMP "G" PROFILE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

80
638

CLERMONT COUNTY
CLE. - 275 - 6.68

ESTIMATED QUANTITIES

DRAINAGE

REF. NO.	STATION TO STATION		SIDE	603 6" Conduit Type B Lin. Ft.	603 6" Conduit Type F Lin. Ft.	603 27" Conduit Type B Lin. Ft.	603 27" Conduit Type C 706.02 Cl. III or 706.08 E.S. or 707.13 Lin. Ft.	603 30" Conduit Type B Lin. Ft.	604 Std. No. 4 Catch Basin Each	604 Std. No. 5 Catch Basin Each	604 Std. No. 1-A Manhole Each	605 6" Underdrain Shallow Lin. Ft.	605 6" Underdrain Deep Lin. Ft.	605 6" Unclassified Underdrain 707.01 Typ. III or 707.12 Lin. Ft.	667 Jute Matting Sq. Yds.	6"x6"x90° Bend	SEE SHEET NO.
	RAMP F																
1-D	532+25	544+00	Rt.										1075	100			
2-D	543+00	556+62.67	Lt. & Rt.	20								1373				2	
	RAMP G																
15-D	532+14.11	549+55	Rt.		10							1754					
16-D	543+88		Lt.												259		
17-D	543+88	547+00	Lt. & Rt.			370				1							466
18-D	547+00	534+90	Rt.				248				1						466
19-D	534+90	534+74	Lt. & Rt.					52	1						227		466
TOTAL				20	10	370	248	52	1	1	1	3127	1075	100	486		

CALC. DE DATE 6/23/62

ROADWAY & PAVEMENT

CHK'D [illegible] DATE 5/2/63

REF. NO.	STATION TO STATION		SIDE	301 8" Bit. Aggregate Base Cu. Yds.	301 3" Bit. Aggregate Base Cu. Yds.	304 6" Aggregate Base Cu. Yds.	310 Subbase Cu. Yds.	402 1¾" Asphalt Concrete Cu. Yds.	404 1¼" Asphalt Concrete Cu. Yds.	409 Seal Coat Bituminous Gals.	409 Seal Coat Cover Aggregate Cu. Yds.	609 Curb Std. Type 6 Lin. Ft.	609 Curb Std. Type 7 Lin. Ft.	609 Curb Std. Type 8 Lin. Ft.	609 Curb Std Type 6 as per plan Lin. Ft.	612 Concrete Median Sq. Yds.	SEE SHEET NO.
	ROADWAY																
	PAVEMENT																
	Ramp F																
	528+78.36	537+73.47		389	68	124	884	86	62	244	7						
	537+73.47	554+62.67		723	94	146	753	146	104	338	9						
	554+62.67	56+80 S.R.32		404	99	183	474	73	52	356	10						
1-P	536+73.47	537+03	Lt.													26	
2-P	537+12 WL	537+78.36 WL	Lt.												66		
3-P	537+03	537+73.47	Lt.												70		
4-P	545+24	545+93	Lt.									69					
5-P	545+93	547+24	Lt.													95	
6-P	547+24	547+84	Lt.									60					
7-P	553+95	556+62.67	Lt.										68	200			
	Ramp G																
	79+45.96 (S.R.32)	535+28.92		294	61	110	343	61	43	219	6						
	535+28.92	545+29.57		428	56	86	439	86	62	200	5						
	545+29.57	549+49.91		171	39	70	241	35	25	141	4						
15-P	534+28.92	534+45	Lt.													15	
16-P	76+27.56 S.R.32	77+10 S.R.32	Lt.														
17-P	Not Used																
18-P	Not Used											65					
19-P	541+34	542+04	Lt.									70					
20-P	545+29.57	547+29.57	Lt.										95	105			
TOTAL				2826		719	3134	487	348	1498	41	264	163	305	136	136	

QUANTITIES
RAMPS F & G S.R. 32 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CLERMONT COUNTY
CLE. - 275-6.68

84/638

RAMP H-1
CURVE DATA
P.I. Sta. 541+32.27
Δ = 39°31'06"
D = 8°00'00"
R = 716.20'
L = 493.98'
T = 257.27'
E = 44.81'

RAMP H-2
CURVE DATA
P.I. Sta. 551+51.22
Δ = 35°10'05"
D = 8°00'00"
R = 716.20'
L = 439.60'
T = 226.97'
E = 35.11'

RAMP H-3
CURVE DATA
P.I. Sta. 555+42.26
Δ = 14°11'59"
D = 4°00'00"
R = 1432.39'
L = 354.99'
T = 178.41'
E = 11.07'

RAMP I-1
CURVE DATA
P.I. Sta. 535+17.78
Δ = 5°36'57"
D = 2°30'00"
R = 2291.83'
L = 224.63'
T = 112.41'
E = 2.75'

RAMP I-2
SPIRAL DATA
P.I. Sta. 537+26.39
θ_s = 20°37'30"
L_s = 150.00'
L.T. = 96.39'
S.T. = 55.25'

RAMP I-3
CURVE DATA
Δ = 200°16'26"
D = 25°00'00"
R = 229.18'
L = 801.10'

RAMP I-4
SPIRAL DATA
P.I. Sta. 546+41.75
θ_s = 23°15'00"
L_s = 150.00'
L.T. = 91.44'
S.T. = 60.65'

RAMP I-5
CURVE DATA
P.I. Sta. 548+56.20
Δ = 14°55'37"
D = 6°00'00"
R = 954.93'
L = 248.78'
T = 125.10'
E = 8.16'

For Quantities See Sht. No. 84

Note: For Ramp "H" & "I" Profiles See Sheet No's. 82 & 83

For Continuation of Ramp "H" See Sh. No. 50

MATCH LINE See Sht. No. 74 STA 551+50

Open Field
Cultivated
3 Str. Barbed Wire
Dirt
Sta. 548+40.44 End Curb
P.C. Sta. 549+24.25 Lt.
LA R/W
550.6 Underdrain 551
Sta. 547+77.44 End Median
Sta. 547+20.44 Lt.
Sta. 541+97.57
Sta. 546+60.44 Begin Median
Sta. 545+97.00 Begin Curb
Woven Wire & 1 Str. Barbed
Woven Wire
Existing 6" Underdrain
Existing R/W
30" Conduit
Type 6 Curb 549
548
540 RAMP "I" 539
667 Jute Matting 7'-6" Wide
Ramp I Sta. 538+00.25 Lt. See Sht. No. 439
Sta. 541+00.00 Begin Curb
Sta. 538+30.00
Sta. 537+80.00
S.C. Sta. 537+80.00
104°23'29"
543 Type 6 Curb
Sta. 543+11.14 End Curb
RAMP "H" 546
545
544
Pasture
Woven Wire & 1 Str. Barbed Wire
Lightly Wooded Area
Stone Foundation Brick Structures
Animal Shelters
Corn Crib
Stone Foundation
Woven Wire & 2 Str. Barbed Wire
Woven Wire & 3 Str. Barbed Wire
Cistern
Conc. Slab
Covered Stone Foundation
Evergreens
Conc. Foundation
Stone Foundation
1½ Sty. Frame Connected Barn
667 Jute Matting 6' Wide
Dog House
Bush
Shrubs
Macadam
Bell
Sta. 543+46.54 Lt. See Sht. No. 439
4 Str. Barbed Wire
3½ Sty. Frame
Flower Bed
Lawn
Conc. Blk. Wall
Sidewalk
Bushes
Gravel
3 Str. Barbed Wire
Open Field
Lightly Wooded Area
90° Tan. to Curve
S 29°19'20" W.
Sta. 541+27.98
Sta. 546+27.98
Sta. 547+39.52
Sta. 549+79.88
Sta. 547+27.98
P.T. Sta. 546+35.44
Sta. 535+75.00
0°-28' Curve
91°11'37"
6" Underdrain
Type 8 Curb
12" Conduit
0° Tan. to Curve
S.C. Sta. 538+75.00
C.S. Sta. 540+25.00
C.S. Sta. 545+81.10 I.
C.S. Sta. 546+31.10 I.
C.S. Nose Sta. 541+31.10 I.
351.42'
P.C. Sta. 534+05.16
P.I. Sta. 543+79.88
165°04'23"
306.42'
667 Jute Matting 7'-6" Wide
C.S. Sta. 536+30.00
95°52'57"
95°10'30"
38°10'37"
Open Field
Sta. 550+79.92 "M"
Sta. 79+12.47
Sta. 82+49.73
Sta. 82+93.68
Sta. 84+59.10
Sta. 80+25.46
Type 8 Curb
Conc.
3 S.R. 32
5 S.R. 32
Existing 6" Underdrain
Woven Wire
Existing R/W
Lt. R/W
Sta. 535+75.00
Sta. 536+75.00
Sta. 538+75.00
Sta. 540+25.00

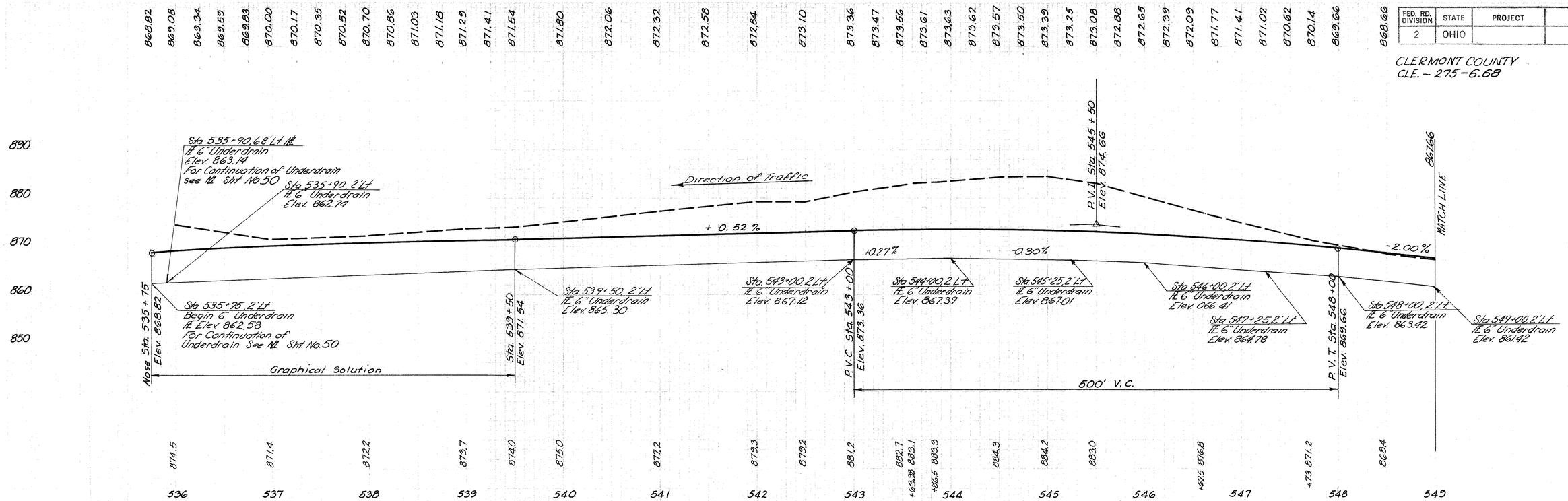
CALC. DE DATE 6/23/67
CHK'D ZEA DATE 6/27/67

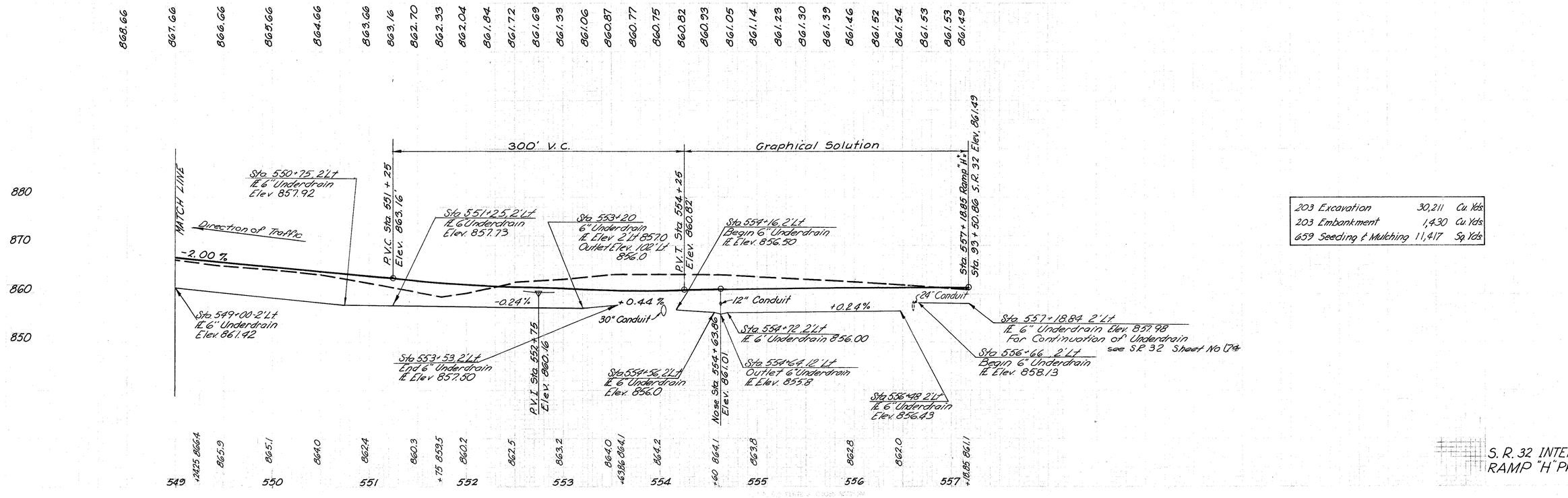
S.R. 32 INTERCHANGE
RAMPS "H & I" PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

(82 / 638)

CLERMONT COUNTY
CLE. – 275 – 6.68





203 Excavation	30,211	Cu Yds
203 Embankment	1,430	Cu Yds
659 Seeding & Mulching	11,417	Sq Yds

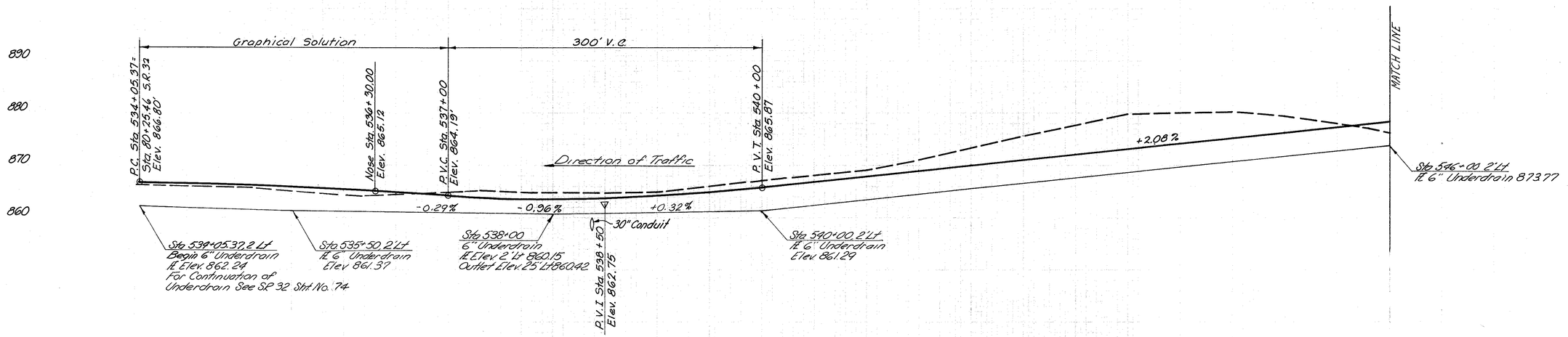
S. R. 32 INTERCHANGE
RAMP "H" PROFILE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

83
638

CLERMONT COUNTY
CLE.-275-6.68

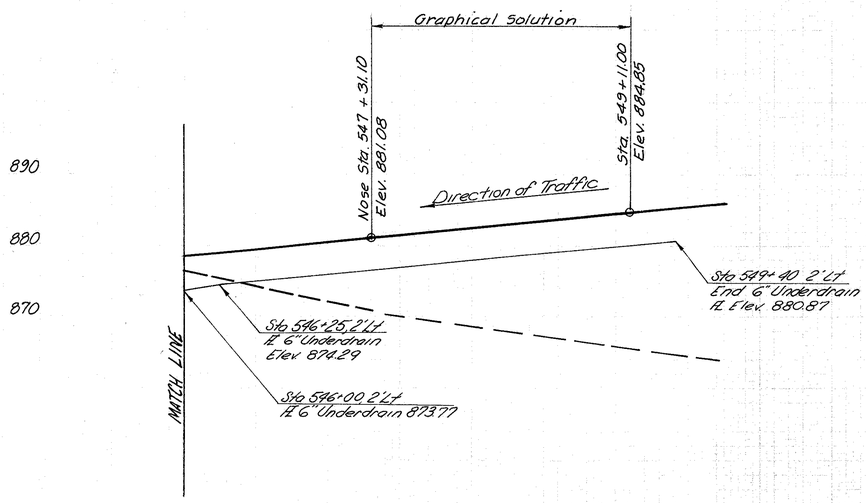
866.80 866.70 866.57 866.47 866.32 866.15 865.95 865.70 865.46 865.18 864.85 864.50 864.19 863.98 863.84 863.75 863.74 863.78 863.89 864.06 864.30 864.59 864.96 865.38 865.87 866.91 867.95 868.99 870.03 871.07 872.11 873.15 874.19 875.23 876.27 877.31 878.35



866.2 866.0 865.8 865.0 864.3 864.3 864.9 +30 865.2 +80 864.9 864.9 865.0 867.2 869.1 871.1 875.8 879.9 880.3 879.4 +81.10 877.2

534 535 536 537 538 539 540 541 542 543 544 545 546

878.35 879.39 880.43 880.95 881.08 881.46 882.00 882.54 883.10 883.66 884.20 884.66 884.85



546 547 548 549

203 Excavation	14,884 Cu. Yds.
203 Embankment	4,246 Cu. Yds.
659 Seeding & Mulching	15,367 Sq. Yds.

S. R. 32 INTERCHANGE
RAMP "I" PROFILE

ESTIMATED QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

84
238

CLERMONT COUNTY
CLE. 275-6.68

DRAINAGE

REF NO.	STATION TO STATION	SIDE	603	605			605																								SEE SHEET NO.
			6" Conduit Type F Lin. Ft.	6" Underdrain Shallow Lin. Ft.	6" Underdrain Deep Lin. Ft.	6" Unclassified Underdrain 7010 Type II or 707.12 Lin. Ft.	6"x6"x6" Tee	6"x6"x60° Bend																						
	RAMP H																														
30-D	535+75 553+53	Lt.	10		1500	268	1																								
31-D	554+16 554+64	Lt.	10	50				1																							
32-D	554+64 556+48	Lt.	10	178				1																							
33-D	556+66 557+18.84	Lt.	10	93																											
34-D	Not Used																														
	RAMP I																														
45-D	534+05.37 549+40	Lt.	10	1548			1																								
46-D	Not Used																														
TOTAL			50	1819	1500	268																									

CALC. DK DATE 6/23/69

CHK'D RCL DATE 5/12/69

ROADWAY & PAVEMENT

REF NO.	STATION TO STATION	SIDE	301		304	310	402	404	409		609				612	SEE SHEET NO.
			8" Bit. Aggregate Base Cu. Yds.	3" Bit. Aggregate Base Cu. Yds.	6" Aggregate Base Cu. Yds.	Subbase Cu. Yds.	1 3/4" Asphalt Concrete Cu. Yds.	1 1/4" Asphalt Concrete Cu. Yds.	Seal Coat Bituminous Gals.	Seal Coat Cover Aggregate Cu. Yds.	Curb Std. Type 6 Lin. Ft.	Curb Std. Type 7 Lin. Ft.	Curb Std. Type 8 Lin. Ft.	Curb Std Type 6 as per plan Lin. Ft.	Concrete Median Sq. Yds.	
	ROADWAY															
	Ramp H															
30-R	Not Used															
	Ramp I															
45-R	Not Used															
	PAVEMENT															
	Ramp H															
	523+75 540+25		558	164	308	1421	119	85	590	16						
	540+25 553+63.86		574	74	116	600	116	83	268	7						
	553+63.86 99+93.14 S.R. 32		351	67	122	410	73	52	241	6						
30-P	535+75 540+30	Rt.										50	400			
31-P	545+97 546+63.44	Rt.									66					
32-P	546+63.44 547+77.44	Rt.													82	
33-P	547+77.44 548+40.44	Rt.									63					
34-P	553+63.85 554+39.85	Rt.												76		
35-P	89+93.14 S.R. 32 90+68.14	Rt.												75		
36-P	554+39.85 554+63.86	Rt.													23	
37-P	Not Used															
	Ramp I															
	79+45.96 S.R. 32 538+30		199	44	82	240	41	30	160	4						
	538+30 546+31.10		343	45	69	351	69	49	160	4						
	546+31.10 549+61.91		279	62	115	178	60	43	222	6						
45-P	536+30 538+30	Rt.										100	100			
46-P	541+84 542+49	Rt.									65					
47-P	542+46 543+11.14	Rt.									65					
48-P	547+11.10 547+31.10	Rt.													15	
49-P	Not Used															
50-P	Not Used															
TOTAL			2760		812	3200	478	342	1641	43	259	150	500	151	120	

QUANTITIES
RAMPS H & I - S.R. 32 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

85
6.38

CLERMONT COUNTY
CLE. - 275-6.68

Sta. 550+79.92 ℄ =
Sta. 79+12.47 S.R.32

667 Jute Matting 7'-6" Wide

Sta. 552+43.6 ℄
See Sht. No. 468

Sta. 553+18.40

Sta. 555+70 &
See Sht. No. 470

667 Jute Matting 7'-6" Wide

Sta. 555+03.85

Sta. 555+70.30

Sta. 556+70.30

Sta. 559+38
See Sht. No. 460

Sta. 561+70.30

667 Jute Matting 7'-6" Wide

S.R.32 Sta. 784+24.79 Rt.
See Sht. No. 468

S.R.32 Sta. 781+95.5, 77' Rt.
See Sht. No.

Woven 4 2 Str. Barbed Wire

Sta. 555+74.27, 85.17' Rt.
See Sht. No. 470

SURVEY CLE.-275

S. 29°19'20" W.

Sta. 565+00 &
See Sht. No. 323

Sta 78+24.17 S.R.32

P.T. Sta. 551+67.18

Ramp K Sta. 569+70
27' Rt. See Sht. No. 467

Ramp K Sta. 563+00, 299' Rt.
See Sht. No. 467

Ramp K Sta. 565+50
266' Rt. See Sht. No. 467

667 Jute Matting 7'-6" Wide

Ramp J Sta. 559+35, 108' Lt.
See Sht. No. 470

Sta. 560+29

Sta. 561+04

Sta. 562+11

Sta. 562+77

Sta. 563+26

Sta. 563+44

Sta. 564+87

Sta. 565+44

Sta. 566+00

Sta. 566+90

Sta. 567+90.86 "K"

Sta. 75+99.89 S.R.32

Sta. 75+67.16

Sta. 78+03.15 Tan. to Curve

Sta. 78+40 Tan. to Curve

Sta. 78+95.5 Tan. to Curve

Sta. 79+40 Tan. to Curve

Sta. 80+00 Tan. to Curve

Sta. 80+40 Tan. to Curve

Sta. 81+00 Tan. to Curve

Sta. 81+40 Tan. to Curve

Sta. 82+00 Tan. to Curve

Sta. 82+40 Tan. to Curve

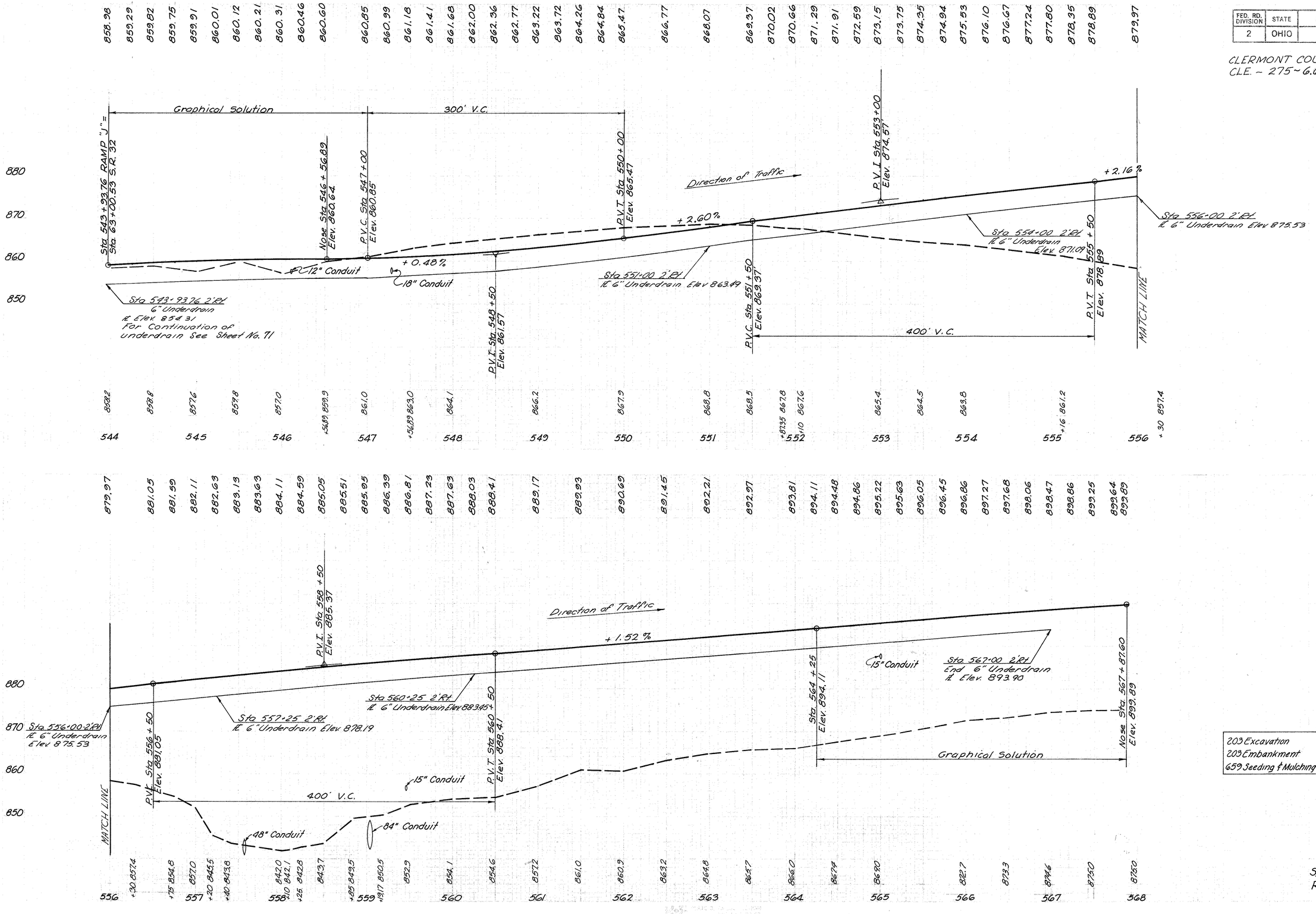
Sta. 83+00 Tan. to Curve

Sta.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

86
638

CLERMONT COUNTY
CLE. ~ 275 ~ 6.68



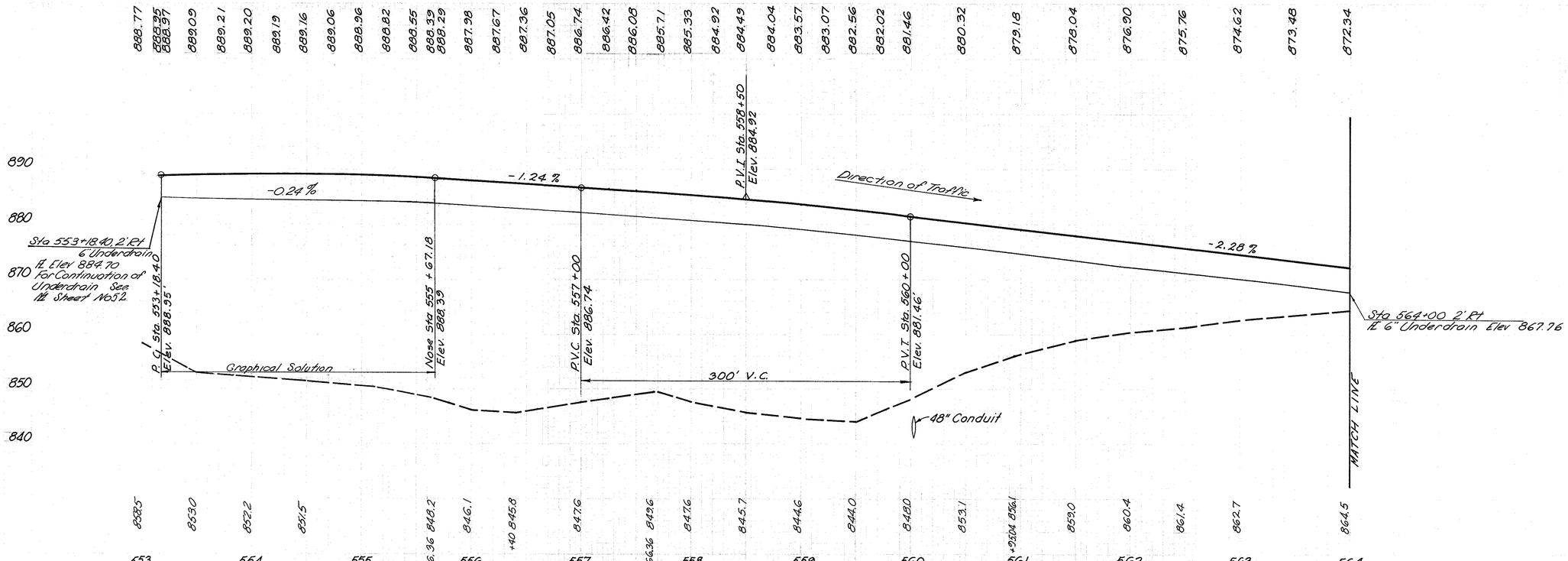
203 Excavation	4,779	Cu. Yds.
203 Embankment	98,044	Cu. Yds.
659 Seeding & Mulching	18,787	Sq. Yds.

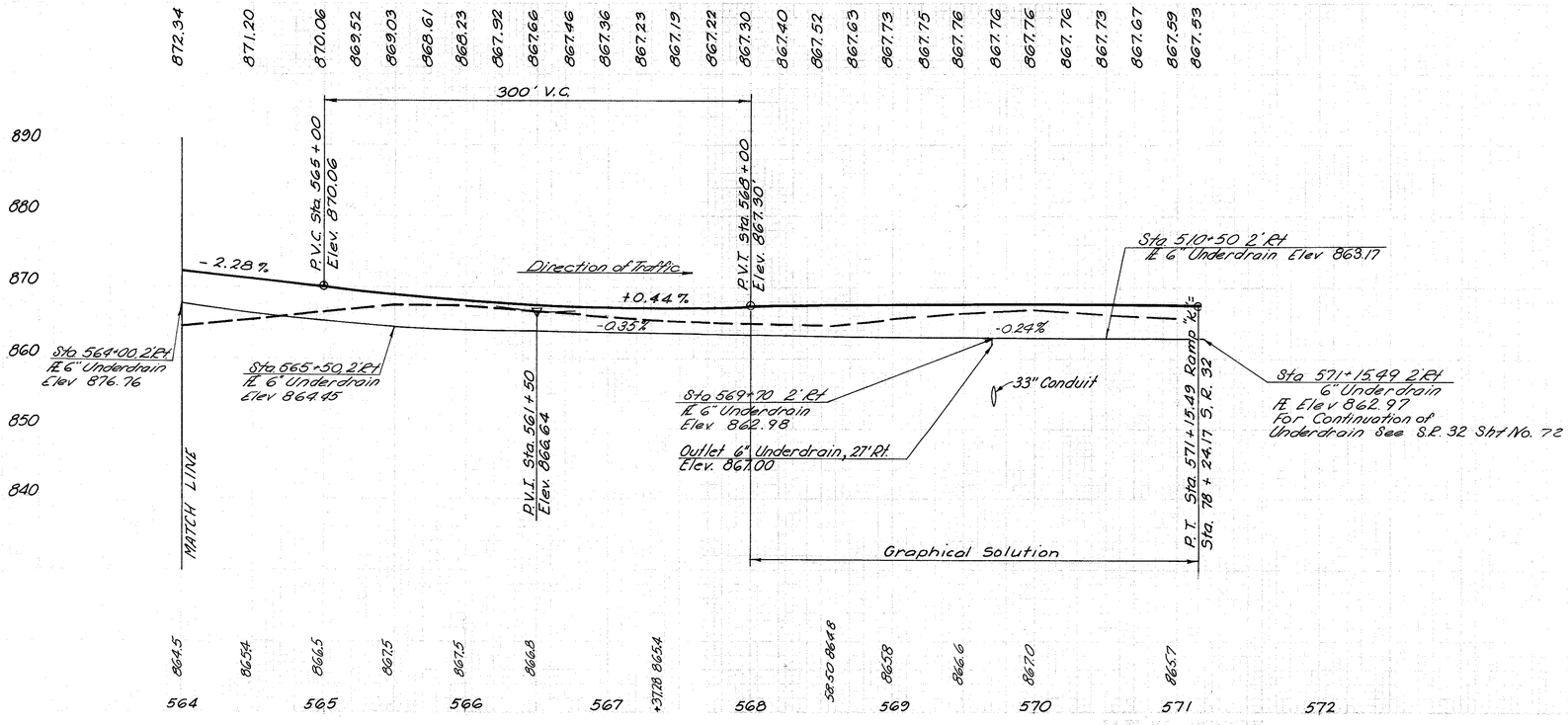
S. R. 32 INTERCHANGE
RAMP "J" PROFILE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

87
638

CLERMONT COUNTY
CLE ~ 275 ~ 6.68





203 Excavation	723 Cu. Yds.
203 Embankment	127,009 Cu. Yds.
659 Seeding & Mulching	22,962 Sq. Yds.

S.R 32 INTERCHANGE
RAMP "K" PROFILE

ESTIMATED QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

88
635

CLERMONT COUNTY
CLE.-275-6.68

DRAINAGE

REF. NO.	STATION TO STATION		SIDE	601 Rock Channel Protection Type B Cu. Yds.	602 Concrete Masonry Cu. Yds.	603 6" Conduit Type F Lin. Ft.	603 15" Conduit Type B 706.02 Cl. V Lin. Ft.	603 18" Conduit Type B Lin. Ft.	603 18" Conduit Type C Lin. Ft.	603 48" Conduit Type A 706.02 Cl. V Lin. Ft.	603 48" Conduit Type A 706.02 Cl. V Class A Bedding Lin. Ft.	603 48" Conduit Type C 706.02 Cl. IV Lin. Ft.	604 Std. No. 22-B Catch Basin Each	604 Std. No. 2-3 Catch Basin Each	604 Std. No. 5 Catch Basin Each	604 Std. No. 2 Manhole w/o Drop Pipe Each	605 6" Underdrain Shallow Lin. Ft.	660 Sodding Sq. Yd.	667 Jute Matting Sq. Yd.	6"x6"x6" Tee	SEE SHEET NO.
	RAMP J																				
60-D	543+93.76	547+00	Rt.			10											2296				
61-D	547+56.89	546+99	Lt. & Rt.		0.30			80						1				2			
62-D	559+39	559+53	Lt. & Rt.	3	0.26		212							1				2	83		
63-D	558+15	559+00	Rt.	55																	
	Alcholtz Road																				
* 64-D	1+49 Lt.	1+78 Lt.	Lt.		0.30				30				1					2			471
* 65-D	0+23 Lt.	1+49 Lt.	Lt.						126				1								471
* 66-D	0+23 Lt.	0+61 Rt.	Lt. & Rt.					84						1							471
	RAMP K																				
75-D	553+18.40	571+15.49	Rt.			10											1812			1	
76-D	563+00	569+70	Rt.									336				1					467
77-D	563+00	558+02 Ramp J	Rt.	17	0.86					302	182					1		3			467
78-D	563+00	565+50	Rt.						40						1				125		467
TOTAL				75	1.72	20	212	164	196	302	182	336	2	1	3	2	4108	9	208		

ROADWAY & PAVEMENT

REF. NO.	STATION TO STATION		SIDE	202 Pipe Removed 24" & Under Lin. Ft.	202 Catch Basin Removed Each	606 Guard Rail Type 5 Lin. Ft.	606 Guard Rail Type 4 Lin. Ft.	606 Approach End Assembly Each	Special Cleaning of Privy Vaults Each	Special Cleaning & Disposal of Septic Tanks Each	304 Aggregate Base 5" Cu. Yds.	304 Aggregate Base 6" Cu. Yds.	301 8" Bit Aggregate Base Cu. Yds.	301 3" Bit Aggregate Base Cu. Yds.	304 Aggregate Base 8" Cu. Yds.	304 Aggregate Base 12" Cu. Yds.	310 Subbase Cu. Yds.	402 Asphalt Concrete 1¼" Cu. Yds.	402 Asphalt Concrete 1¾" Cu. Yds.	404 Asphalt Concrete 1½" Cu. Yds.	404 Asphalt Concrete 2" Cu. Yds.	408 Bituminous Prime Coat Gals.	409 Seal Coat Bituminous Gals.	409 Seal Coat Cover Aggregate Cu. Yds.	609 Curb Std. Type 6 Lin. Ft.	609 Curb Std. Type 7 Lin. Ft.	609 Curb Std. Type 8 Lin. Ft.	612 Curb Std Type 6 as per plan Lin. Ft.	612 Concrete Median Sq. Yds.	SEE SHEET NO.
	ROADWAY																												
	Ramp J																												
60-R	555+25	567+87.60	Rt.			1262.60		1																					
61-R	547+00		Rt.							1																			
62-R	556+96		Rt.						1																				
63-R	563+13		Rt.							1																			
	Alcholtz Road																												
* 64-R	B+68		Lt. & Rt.				25																						
* 65-R	1+78 Lt.	0+23 Rt.	Lt. & Rt.		202	2																							
	PAVEMENT																												
	Ramp J																												
	57+65.88 (SR 32)	547+56.89										122	355	67			408		74	53		241	6						
	547+56.89	560+37.60										137	668	88			707		137	98		316	8						
	563+37.60	579+87.60										314	558	163			1224		119	35		506	16						
60-P	546+56.89	546+88	Lt.																									21	
61-P	546+88	547+56.88	Lt.																								69		
62-P	65+98	66+66.68	Lt.																								69		
63-P	554+60.99	555+29.99	Lt.																					69					
64-P	555+29.99	556+75.99	Lt.																									105	
65-P	556+75.99	557+34.99	Lt.																					59					
66-P	563+17	567+87.60	Lt.																						58	413			
	Alcholtz Road																												
* 67-P	7+68	8+60	Lt. & Rt.													153		15		15		184							
68-P	559+23		Rt.												26	16		1		1		20							
69-P	560+29	561+75	Rt.								32										12	91							
	Ramp K																												
	551+97.93	556+67.18										91	320	72			462		69	50		257	7						
	556+67.18	566+90.86										45	440	28			448		88	63		205	5						
	566+90.86	78+24.17 (SR 32)										71	169	39			202		35	25		140	4						
75-P	555+87.18	555+87.18	Lt.																1									15	
76-P	555+90.80 NM	556+90.30 NM	Lt.																								80		
77-P	555+87.18	556+67.18	Lt.																								85		
78-P	560+03.36	556+75.99 Ramp J	Lt.																					65					
79-P	555+29.99 Ramp J	562+66.64	Lt.																					75					
80-P	566+90.86	568+90.86	Lt.																						83	116			
TOTAL					202	2	1262.60	25	1	1	2	812		2967		195	3451		538	402		895	1745	46	268	142	529	303	141	

CALC. DEI DATE 6/23/67
CHK'D RSL DATE 5/2/69

* Quantities Carried from Sht. No. 93

QUANTITIES
RAMPS J & K, S.R. 32 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE. – 275-6.68

RAMP L-1
CURVE DATA
P.I. Sta. 545+23.48
Δ = 8°00'00"
D = 4°00'00"
R = 1432.39'
L = 200.00'
T = 100.16'
E = 3.50'

RAMP L-2
CURVE DATA
P.I. Sta. 548+38.42
Δ = 33°26'03"
D = 8°00'00"
R = 716.20'
L = 417.93'
T = 215.10'
E = 31.60

RAMP L-3
CURVE DATA
P.I. Sta. 559+93.57
Δ = 33°31'45"
D = 8°00'00"
R = 716.20'
L = 419.11'
T = 215.75'
E = 31.79'

RAMP L-4
CURVE DATA
P.I. Sta. 564+73.95
Δ = 8°17'46"
D = 1°30'00"
R = 3819.72'
L = 553.07'
T = 277.02'
E = 10.03'

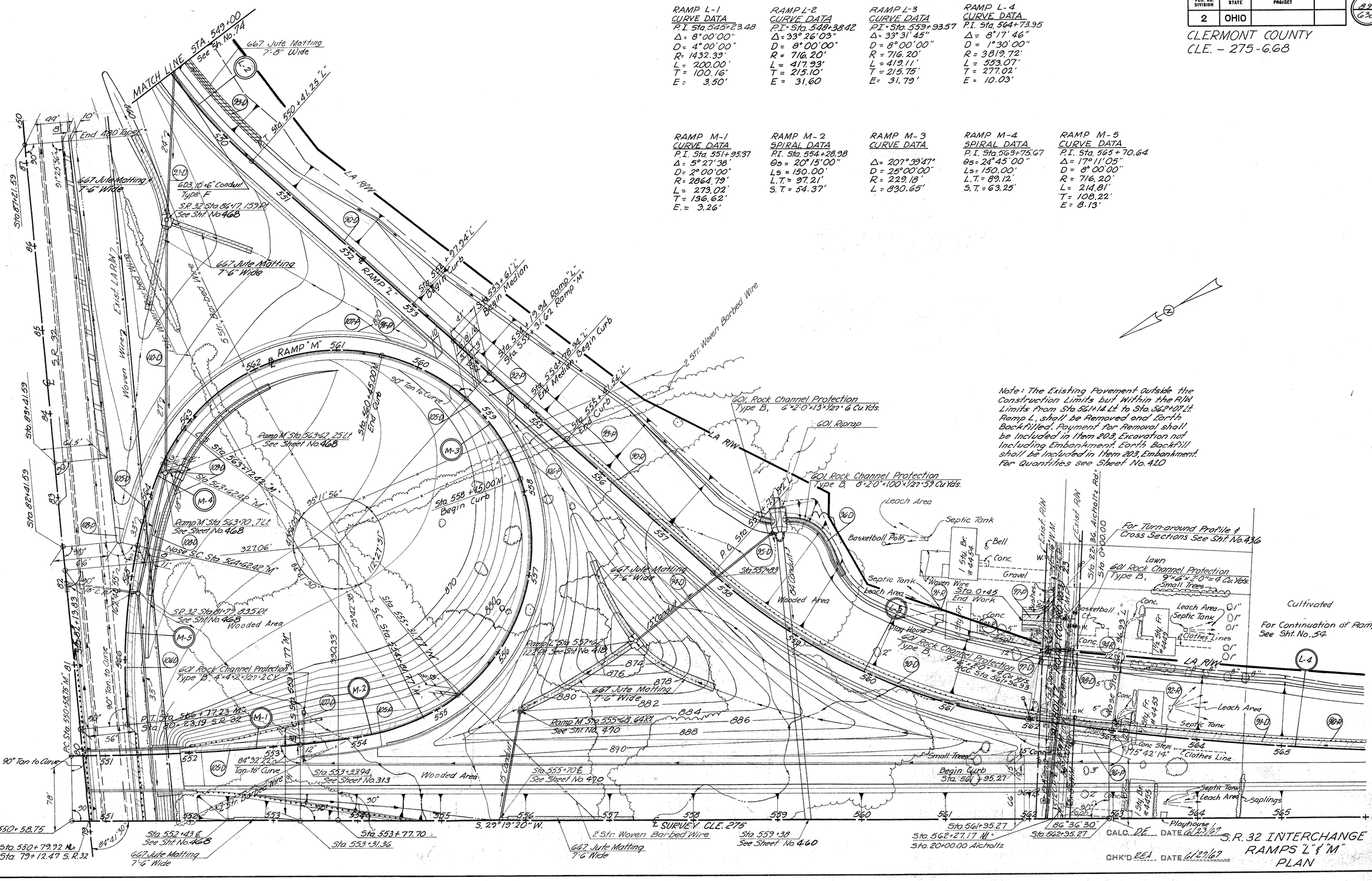
RAMP M-1
CURVE DATA
P.I. Sta. 551+95.37
Δ = 5°27'38"
D = 2°00'00"
R = 2864.79'
L = 273.02'
T = 136.62'
E = 3.26'

RAMP M-2
SPIRAL DATA
P.I. Sta. 554+28.98
θs = 20°15'00"
Ls = 150.00'
L.T. = 97.21'
S.T. = 54.37'

RAMP M-3
CURVE DATA
Δ = 207°39'47"
D = 25°00'00"
R = 229.18'
L = 830.65'

RAMP M-4
SPIRAL DATA
P.I. Sta. 563+75.67
θs = 24°45'00"
Ls = 150.00'
L.T. = 89.12'
S.T. = 63.25'

RAMP M-5
CURVE DATA
P.I. Sta. 565+70.64
Δ = 17°11'05"
D = 8°00'00"
R = 716.20'
L = 214.81'
T = 108.22'
E = 8.13'



Note: The Existing Pavement Outside the Construction Limits but Within the R/W Limits from Sta. 561+14 Lt. to Sta. 562+09 Lt. Ramp L, shall be Removed and Earth Backfilled. Payment for Removal shall be Included in Item 203, Excavation not Including Embankment, Earth Backfill shall be Included in Item 203, Embankment. For Quantities see Sheet No. 420

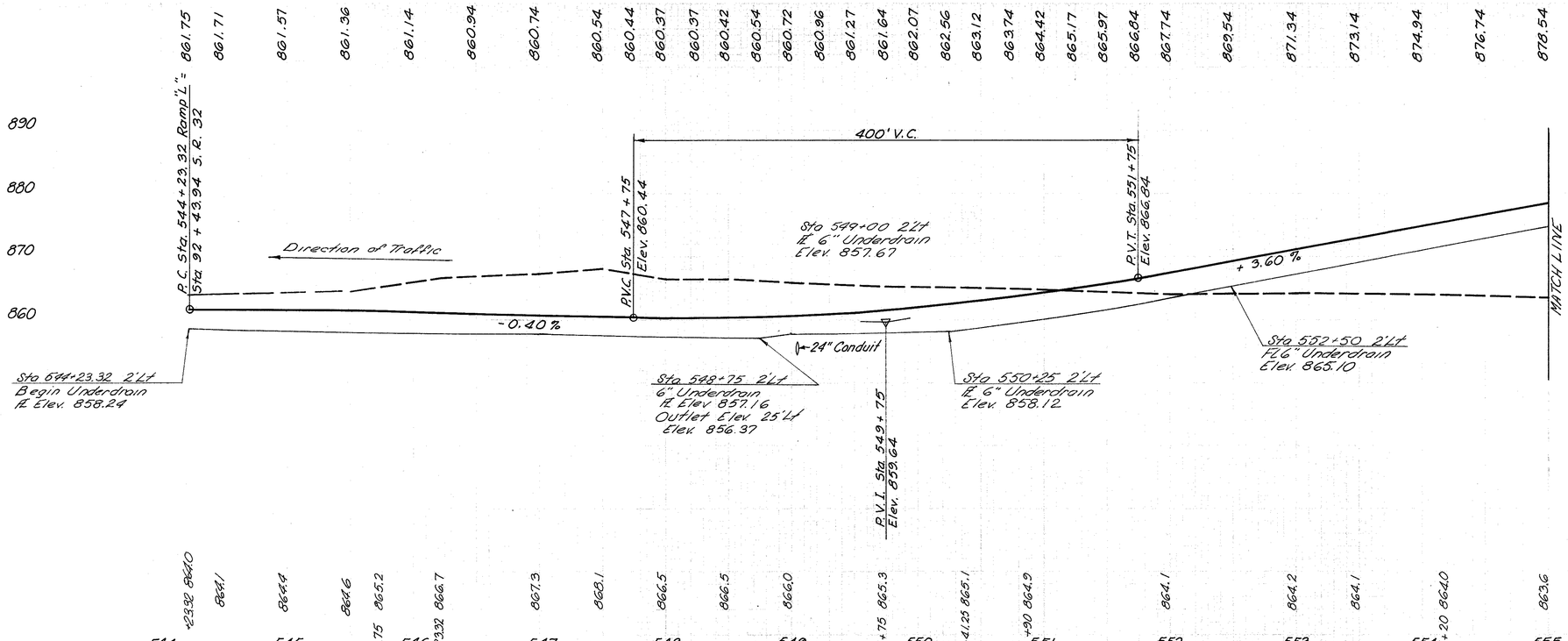
CALC. DE DATE 6/23/67
CHK'D REA DATE 6/27/67

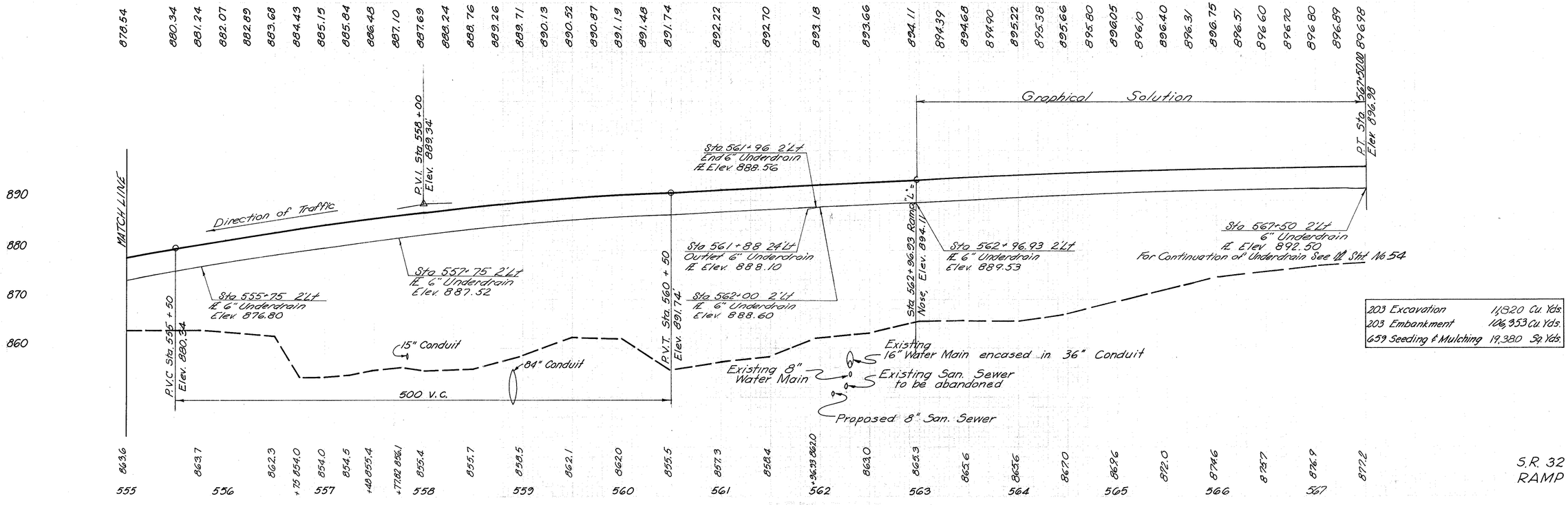
S.R. 32 INTERCHANGE RAMPS "L" & "M" PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE -275-6.68





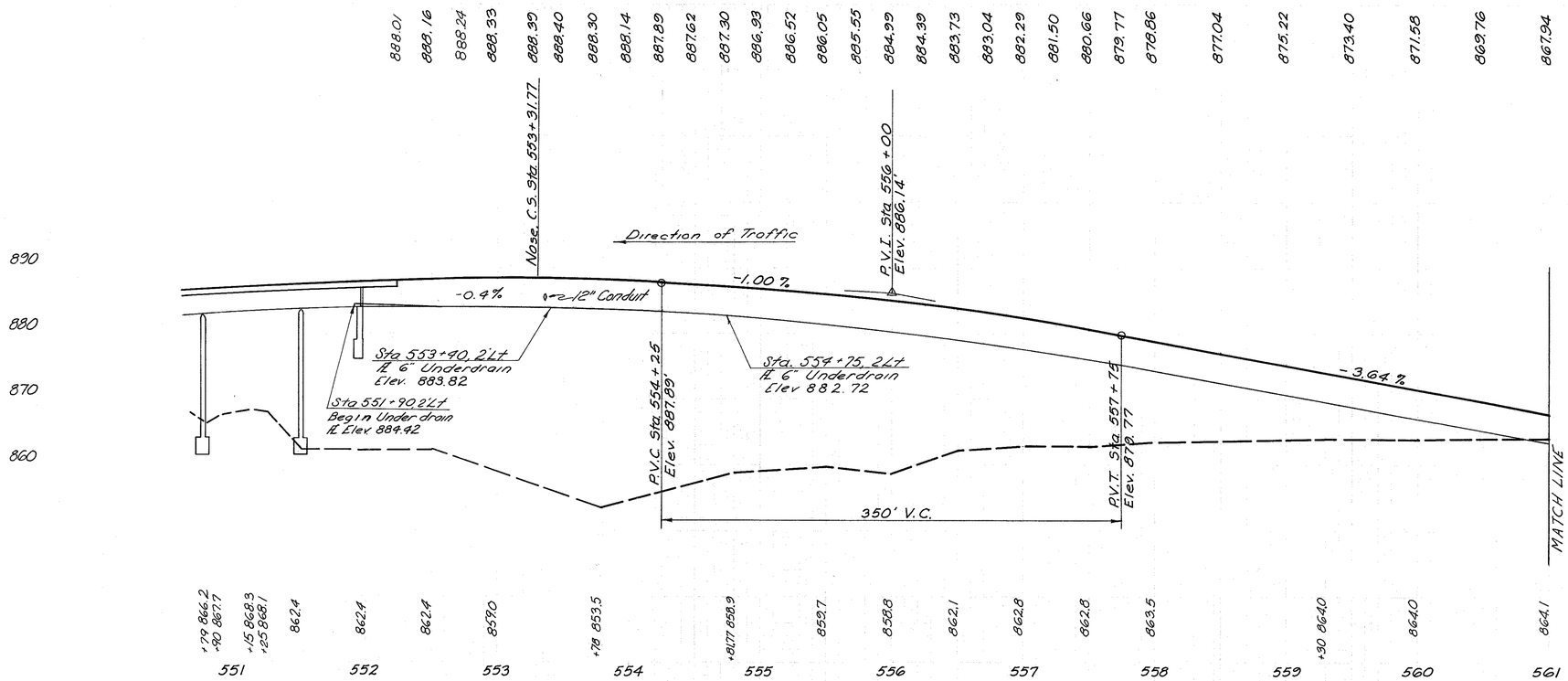
203 Excavation	14,320 Cu. Yds.
203 Embankment	106,353 Cu. Yds.
659 Seeding & Mulching	19,380 Sq. Yds.

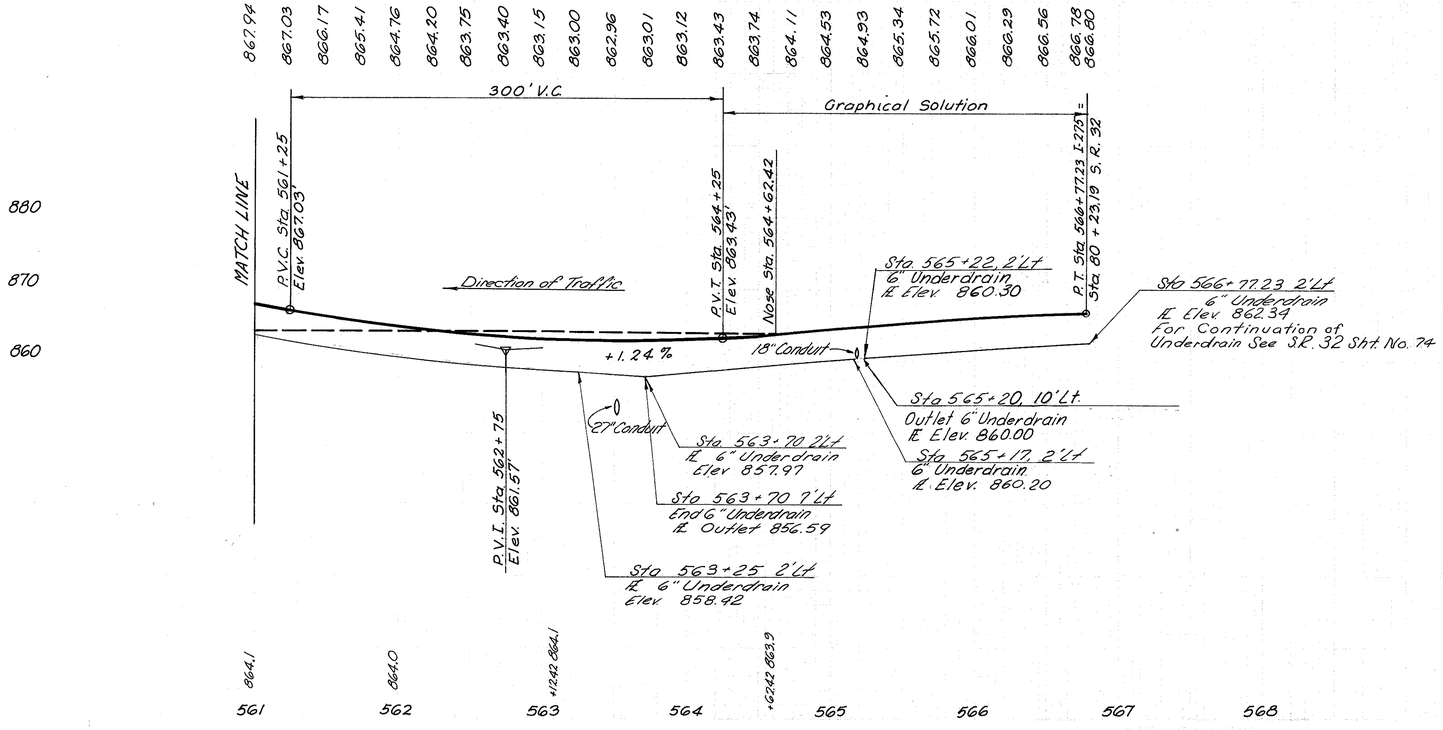
S.R. 32 INTERCHANGE
RAMP "L" PROFILE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
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203 Excavation	1,576	Cu. Yds.
203 Embankment	83,702	Cu. Yds.
659 Seeding & Mulching	18.137	Sq. Yds.

S.R 32 INTERCHANGE
RAMP "M" PROFILE

ESTIMATED QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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633

CLERMONT COUNTY
CLE. 275-6.68

DRAINAGE

REF. NO.	STATION TO STATION		SIDE	601 Rock Channel Protection Type B Cu. Yds.	602 Concrete Masonry Cu. Yds.	603 6" Conduit Type F Lin. Ft.	603 12" Conduit Type B Lin. Ft.	603 15" Conduit Type B 706.02 Cl. V Lin. Ft.	603 18" Conduit Type C Lin. Ft.	603 24" Conduit Type B Lin. Ft.	603 27" Conduit Type B Lin. Ft.	603 33" Conduit Type C 706.02 Cl. III or 706.03 Lin. Ft.	604 Std. No. 4 Catch Basin Each	604 Std. No. 5 Catch Basin Each	604 Std. No. 6 Catch Basin Each	604 Std. No. 1 Manhole Each	605 6" Underdrain Shallow Lin. Ft.	660 Sodding Sq. Yd.	667 Jute Matting Sq. Yds.	6"×6"×6" Tee	6"×6"×60° Bend	6"×6"×6" Wye	SEE SHEET NO.
	RAMP L																						
90-D	544+23.32	561+96	Lt.			20												1776			1			
91-D	561+88	567+50	Lt.			10												567				1		
92-D	92+42.76 S.R.32	92+58.89 S.R.32	Lt. & Rt.		0.23		40									1			1					470
93-D	548+75	86+17 S.R.32	Lt. & Rt.							210				1						242				468
94-D	557+83		℄		0.26			230						1					1	292				418
95-D	557+75	557+89	Lt.	6																				
96-D	558+03	559+10	Lt.	59																				
	Aicholtz Rd.																							
97-D	21+96	22+05	Lt.	4																				
98-D	21+94	22+03	Rt.	4																				
99-D	Not Used																							
	RAMP M																							
105-D	551+90	565+17	Lt.			5												1327			1			
106-D	565+20	566+77.23	Lt.			8												155					1	
107-D	553+33.94 NM		Lt.	1	0.23		52									1			1					313
108-D	81+79 S.R.32	563+70	Lt.									146				1								468
109-D	563+62	563+70	Lt.						20				1							240				468
110-D	563+70	86+17 S.R.32	Lt. & Rt.								300		1											468
111-D	Not Used																							
				74	0.72	43	92	230	20	210	300	146	2	2	2	1		3825	3	774				

CALC. DE DATE 6/23/67
CHK'D RM DATE 5/2/68

ROADWAY & PAVEMENT

REF. NO.	STATION TO STATION		SIDE	202 Existing Sidewalk Removed Disposed of Sq. Ft.	606 Std. Guard Rail Type 4 Lin. Ft.	606 Std. Guard Rail Type 5 Lin. Ft.	606 Anchor Assembly Each	ITEM SPECIAL Cleaning & Disposal of Septic Tanks Each	301 8" Bit. Aggregate Base Cu. Yds.	301 3" Bit. Aggregate Base Cu. Yds.	304 Aggregate Base 6" Cu. Yds.	304 Aggregate Base 12" Cu. Yds.	310 Subbase Cu. Yds.	402 Asphalt Concrete 1¼" Cu. Yds.	402 Asphalt Concrete 1¾" Cu. Yds.	404 1¼" Asphalt Concrete Cu. Yds.	408 Bit. Prime Coat Gals.	409 Seal Coat Bituminous Gals.	409 Seal Coat Cover Aggregate Cu. Yds.	609 Curb Std. Type 6 Lin. Ft.	609 Curb Std. Type 7 Lin. Ft.	609 Curb Std. Type 8 Lin. Ft.	612 Concrete Median Sq. Yds.	SEE SHEET NO.
	ROADWAY																						
	Ramp L																						
90-R	555+75	567+50	Lt.			1175	1																	
91-R	560+45		Lt.					1																
92-R	563+65		Lt.					1																
93-R	561+09		Lt.	36																				
94-R	22+02 Aicholtz Rd.		℄		25																			
	PAVEMENT																							
	Ramp L																							
	101+63.94 S.R.32	546+23.32							355	98	181		472		73	52		352	9					
	546+23.32	561+96.93							674	88	136		699		136	97		315	8					
	561+96.93	570+75							402	66	119		529		87	62		236	6					
90-P	554+23.32	546+84	Rt.																	63		61	200	
91-P	552+97.94	553+61	Rt.																					85
92-P	553+61	554+78.94	Rt.																	63				
93-P	554+78.94	555+41.54	Rt.																					
94-P	Not Used																							
95-P	Not Used																							
96-P	562+64.93	562+96.93	Rt.																					26
97-P	22+36 Aicholtz Rd.		Lt.									30		3		3	36							
	Ramp M																							
	551+97.93	555+31.77							137	33	61		206		29	21		117	3					
	555+31.77	563+62.42							356	46	72		364		72	51		166	4					
	563+62.42	78+24.17 S.R.32							333	67	121		392		69	49		240	6					
105-P	553+31.36 NM	555+31.77	Rt.																			82	118	
106-P	553+15	554+78.94 Ramp L	Rt.																	66				
107-P	553+61 Ramp L	560+45	Rt.																	66				
108-P	564+45.42	564+62.42	Rt.																					16
109-P	Not Used																							
				36	25	1175	1	2	2655		720		2662	469		335	36	1426	39	253	143	318	127	

QUANTITIES
RAMPS L & M, S.R. 32 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68

REFERENCE STA. 10+00 (Nail & Cap)
Nail Box 25.72' 36.48' 16" Elm 16.39' 11 Conc. Patio

REFERENCE P.I. STA. 11+71.30
9" Ash 33.28' 22.58' Ash 9' 11 6" Cherry 12

REFERENCE P.O.T. STA. 13+57.30 (HUB)
38.00' 24" Wild Cherry 9" Ash 21.60' 9" Locust 9" Locust 13 1A

REFERENCE P.C. STA. 14+54.10 (HUB)
6" Wild Cherry P.C. 14 794' 6" Locust 22.00' 6" Locust

REFERENCE P.I. STA. 15+79.07 (HUB)
15 16 34.93' 23.28' 9" Apple 6" Peach

REFERENCE INTERSECTION STA. 17+32.50
12" Ash 34.85' 19.30' 6" Ash @ Nicholtz Rd. 17 31.85' 12" Ash

16'±
7'± 8'± 8'± 5'±
2" Asphalt 8" Gravel
TYPICAL SECTION RUST LANE

Sta. 46+85 Rust Lane
Sta. 0+00 Drive
Sta. 11+00, 33' Lt.
See Sheet No. 93
Sta. 11+56.45' Lt.
End Work
Sta. 0+90 End Work
Sta. 10+57 Rust Lane
Sta. 0+00 Drive
Sta. 10+58, 16' Lt.
See Sheet No. 93
Sta. 9+20.00 Begin Work
RUST LANE (Gravel)
Sta. 11+67.5 24' Lt.
See Sheet No. 93
Sta. 11+63, 9' Lt.
Sta. 7+68 End Work
Temporary Easement
Lawn
Sta. 0+30 End Work
Sta. 10+30, 22' Rt.
See Sheet No. 93
Sta. 0+30 End Work
Sta. 0+30 Drive
Sta. 13+87, Rust Lane
Sta. 0+00, Drive
Sta. 15+31 & See Sheet No. 426 & 463
Sta. 17+52.50 Rust Lane Ext. = Sta. 6+22.28 Nicholtz Road
Sta. 17+42.50 End Work
Note: For Cul de sac Cross Sections, See Sht. No. 435

601 R.C.P. Type B
6'+6'+2'-0" = 3 Cu. Yds.

CURVE DATA
P.I. 11+71.30
Δ = 49°30'00"
D = 21°00'00"
R = 272.84'
T = 122.90'
L = 280.95'
E = 22.39'

CURVE DATA
P.I. = 15+79.07
Δ = 49°13'00"
D = 21°00'00"
R = 272.84'
L = 234.36'
T = 124.97'
E = 27.23'

601 R.C.P. Type B
10'+8'+3'-0" = 9 Cu. Yds.

660 Sodding
601 Riprap
Septic Tank
Leach Area
Chain Link
Welded Wire Fence
Lawn
Asph.
Gravel
Conc.
Brick
Frame
Garage
Cistern
Drive Blk. Stp.
Fr. Garage
Conc. Driveway
Gas Tank
Wrought Iron Fence
Existing Fence
Conc. Pavement
Asphalt
Wooden Fence
Barbed Wire Fence
Retaining Wall
Septic Tank & Leach Area
Lawn
Chain Link
Welded Wire Fence
Septic Tank
Leach Area
Lawn
Asph.
Gravel
Conc.
Lawn

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE.~275~6.68

B.M. S.E. Corner of Bottom Step at Residence 52'Rt. of Sta. 11+90 Aicholtz Rd. Connection
Elev. 878.37

RELOCATED AICHOLTZ RD. CURVE DATA
P.I. Sta. 31+03.50
Δ = 98°08'48" Rt.
D = 38°11'50"
R = 150.00'
L = 256.95'
T = 173.00'
E = 78.98'

AICHOLTZ RD. CONN. CURVE DATA
P.I. Sta. 11+23.00
Δ = 44°47'33" Rt.
D = 71°37'11"
R = 80.00'
L = 62.54'
T = 32.97'
E = 6.53'

TYPICAL SECTION OF ADJOINING PAVEMENT
No Scale

Varies 7'± 7'± Varies
Profile Grade
2" Asphalt
8" Gravel

Sta. 12+00 End Taper Meet Exist. Pvmt. & Shoulders End Work
Rose Garden
Asphalt
Gravel
Conc.
Well
1 Sty. Conc. Res.
Fruit Trees
Conc. Walk
Garden
Grease Trap
Cistern
Septic Tank
Grape Arbor
Shed
Privy
Leach Area
PI Sta. 11+29.00
Temp. Easement
Sta. 11+28.21 See Sht. No. 469
Sta. 11+25.21
Sta. 10+91.30 Lt. See Sht. No. 469
Sta. 10+90.03
Asph.
Split rail
Sta. 0+46 End Work
Provide Mail Box Approach for 2 Boxes
Sta. 0+30 End Work
PI Sta. 3+03.50
603'-30 LF-12" Conduit Type D
Sta. 0+42 Lt. End Work
Sta. 29+05.50 Begin Taper Meet Exist Pvmt. & Shoulders
Sta. 28+42.00 Begin Work
Asph. Mclerest Rd.
Gravel
Exist. R/W
Lawn
Asph.
Exist. R/W
Mail Boxes
Provide Mail Box Approach for 4 Boxes
P.C. Sta. 29+30.50
Gar.
Temp. Easement
1 Sty. Fr.
Sta. 30+50.33 See Sht. No. 469
Channel Easement
Sta. 31+11.6, 49' Rt. See Sht. No. 469
Sta. 30+76.00 Rel. Aicholtz Rd. = Sta. 10+00 Aicholtz Rd. Conn.
60' Riprap
Sta. 33+44 See Sht. No. 430
Fr. Shed
2 Conduit Sts.
Channel
60' Rock Channel Protection
Wooded
Temp. Easement
R/W
RELOCATED AICHOLTZ RD. N. 50°13'50" E
P.C. Sta. 43+23.00
60' Jute Matting 4'-0" Wide
MATCH LINE STA. 45+00

Note:
For Intersection & Driveway Details, See Sheet No. 117
For Storm Sewer Detail See Sheet No. 469
For Quantities See Sheet No. 95
For Typical Section See Sheet No. 10

REFERENCE POT. STA. 30+14.45
54.57 32.55 12" Ash
30
Spike
15.60

REFERENCE POT. STA. 40+90.68
4" Maple 20.8 11.71 14.1 6" Ash
Hub & Tack
6.16
6" Hickory

REFERENCE PC. Sta. 29+30.50
R 150.00
Nail (painted)
29
35.04
32.62
5/8" Stump

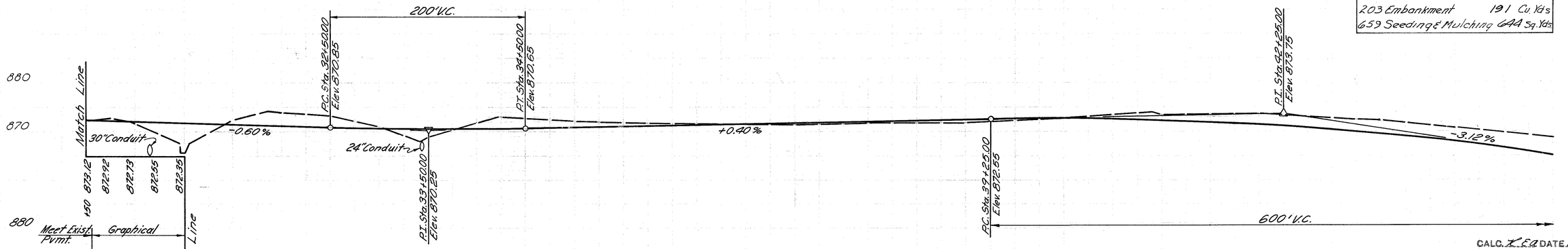
REFERENCE PI. Sta. 31+03.50
R 150.00
54.57
Brace Pole
Spike
Tangent
38.23
12" Ash

REFERENCE POC. Sta. 30+76.00
4" Maple 3.2
Flat & Tack
3.1
19.49
4" Maple
26.08
3" Elm

REFERENCE POT. Sta. 12+00.00 AICHOLTZ RD. CONN.
12" Nail
25.32
36" Oak
48" Oak

REFERENCE P.T. Sta. 31+87.45
Hub & Tack
36.49
3" Peach
18" Maple
36.74
32
14.10
12" Hickory

AICHOLTZ WEST CONNECTION
203 Excavation 456 Cu. Yds
203 Embankment 191 Cu. Yds
659 Seeding & Mulching 644 Sq. Yds



CALC. K.E.A DATE 10/23/63
CHK'D Read DATE 10/24/63

RELOC. AICHOLTZ ROAD
STA. 28+42 ~ STA. 45+00

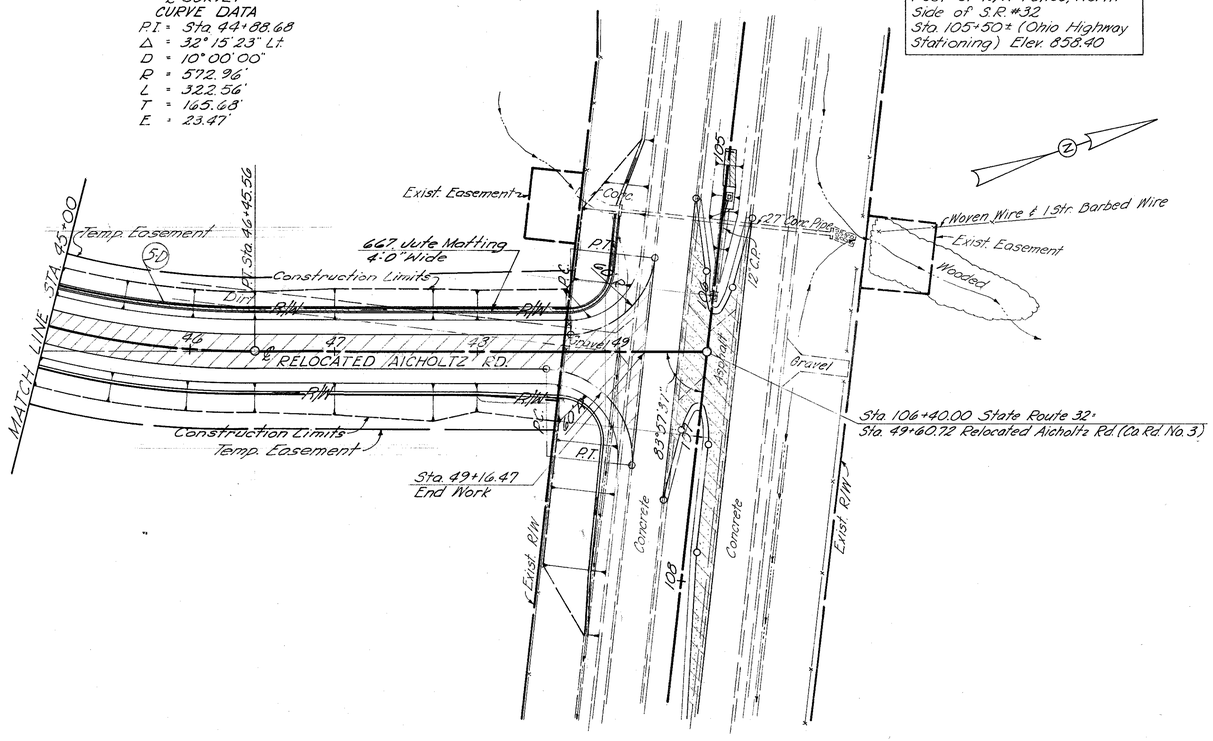
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

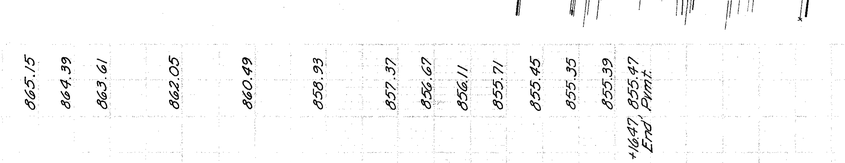
95/638

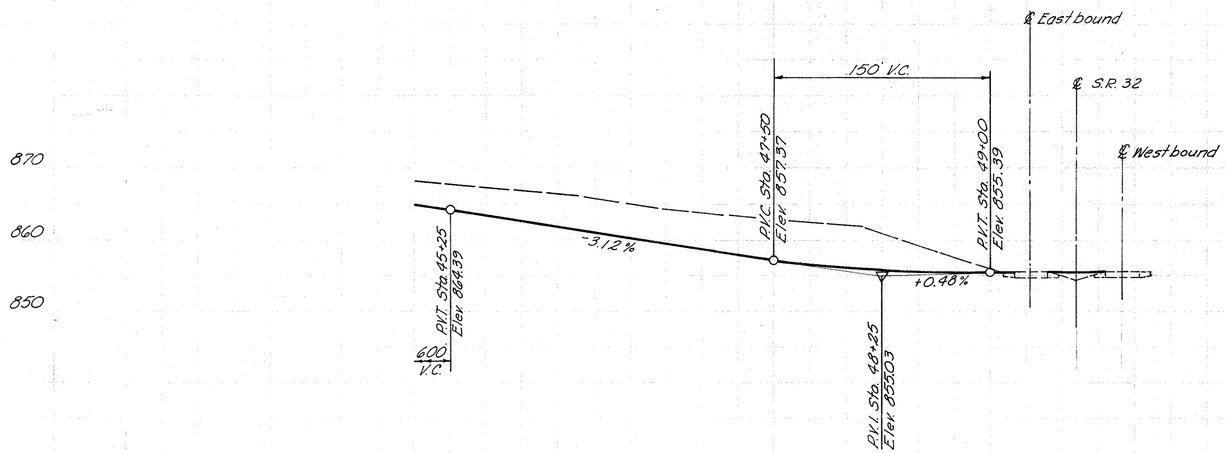
CLERMONT COUNTY
CLE.-275-6.68

℄ SURVEY
CURVE DATA
P.I. = Sta. 44+88.68
Δ = 32° 15' 23" Lt.
D = 10° 00' 00"
R = 572.96'
L = 322.56'
T = 165.68'
E = 23.47'

B.M. Spike in top of Brace Post of R/W Fence, North Side of S.R. #32 Sta. 105+50± (Ohio Highway Stationing) Elev. 858.40







STA. 28+42 ~ STA 49+16.47
203 Excavation 16,607 Cu Yds
203 Embankment 689 Cu Yds
659 Seeding & Mulching 12.847 Sq. Yds.

★ 706.02, 706.08 E.S. or 707.13

EST. QUANTITIES

REF. NO.	STATION TO STATION	SIDE	601 Riprap Sq. Yd.	601 Rock Channel Protection Type B Cu. Yd.	602 Concrete Masonry Ca. Yd.	603 12" Conduit Type D Lin. Ft.	603 24" Conduit Type A Type RC 1008.04 Lin. Ft.	603 30" Conduit Type B ★ Lin. Ft.	603 30" Conduit Type E ★ Lin. Ft.	604 Standard Manhole No. 5 Type C. B. Each	605 Aggregate Drains Lin. Ft.	SEE SHT. NO.
	DRAINAGE											469
1-D	29+71 Relo. Aicholtz Rd.	Lt.				30				2		469
2-D	11+53.56 Aicholtz Rel. Conn.	Lt.				30 - 50 ?						469
3-D	10+91 Aicholtz Rel. Conn. No. 1	Lt.										480
	3+11.6 Relo. Aicholtz Rd.	Rt.		5	0.51			100	60	2		
4-D	33+45 Relo. Aicholtz Rd.			4	0.06		68					
5-D	44+93 Aicholtz Rel. Conn. No. 2	Lt.	20									
	TOTAL		20	9	1.37	80	68	100	60	2	718	

EST. QUANTITIES

REF. NO.	STATION TO STATION	SIDE	202 Pipe Removed 24" Under Lin. Ft.	304 Aggregate Base Cu. Yd. 8"	304 Aggregate Base Cu. Yd. 12"	402 1½" Asphalt Concrete Cu. Yd.	404 Asphalt Concrete Cu. Yd. 2"	408 Bitu-minous Prime Coat Gal.	605 Aggregate Drains Lin. Ft.	SEE SHT. NO.
	ROADWAY									469
1-R	29+71 Relo. Aicholtz Rd.	Lt.	18		1952	194	194	2329	666	469
2-R	10+64 Aich. Rd. Conn.	Lt.	22		196	20	20	231	52	469
3-R	10+95 Aich. Rd. Conn.	Lt.	25		14		4	25		480
4-R	11+53.56 Aich. Rd. Conn.	Lt.	20		28		7	50		
5-R	Not Used				15		4	26		
					10	1	1	12		
	PAVEMENT				3		1	6		
	29+25.50 - 49+16.47 Rel. Aich.				2218	215	231	2679	718	
	10+12 - 12+00 Aich. Rd. Conn.									
1-P	29+71 Rel. Aicholtz Rd.	Lt.								
2-P	10+64 Aicholtz Rd. Conn.	Lt.								
3-P	11+53.56 Aicholtz Rel. Conn.	Lt.								
4-P	29+45 Relo. Aich. Rd.	Rt.								
5-P	10+95 Aich. Rd. Conn.	Lt.								
	TOTAL		85							

CALC. [illegible] DATE 10/23/69

CHK'D [illegible] DATE [illegible]

RELOC. AICHOLTZ ROAD
STA. 45+00 ~ STA. 49+60.72

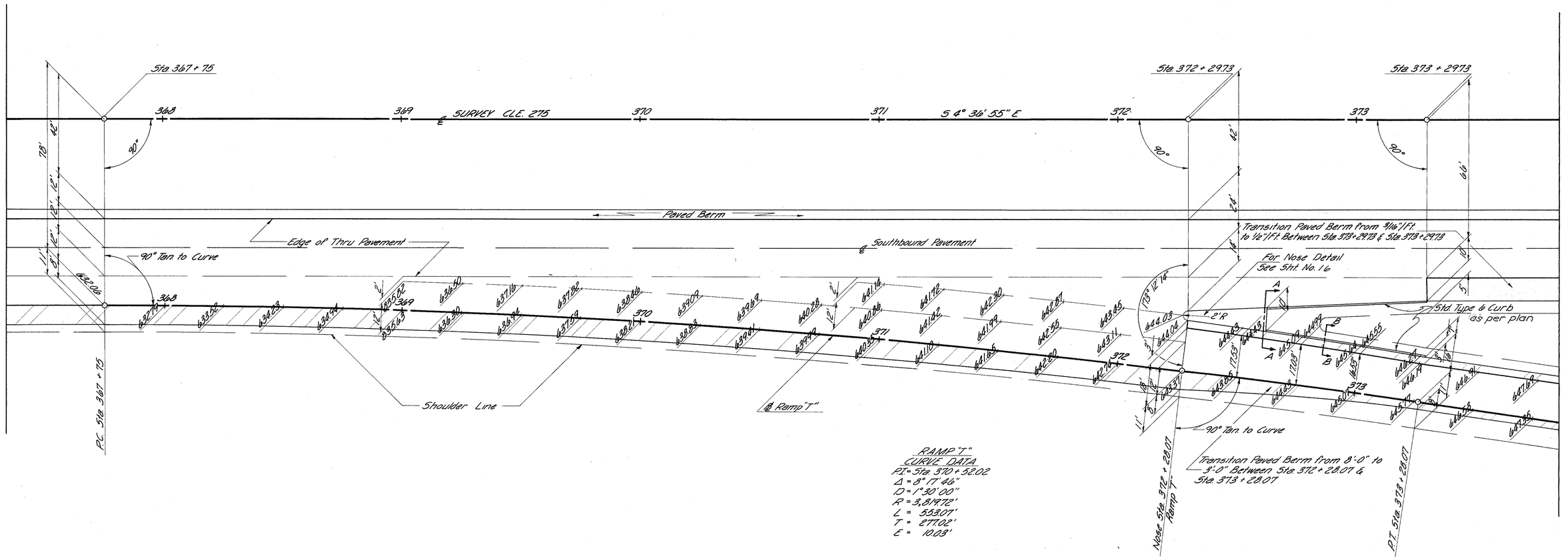
RAMP "T" EXIT TERMINAL

Note: For Sections A-A & B-B See Sht. No. 16
Scale: 1" = 20'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE-275-6.68



RAMP "T"
CURVE DATA
PI = Sta 370+52.02
Δ = 8° 17' 46"
D = 1° 30' 00"
R = 3,819.72'
L = 553.07'
T = 277.02'
E = 10.03'

DECELERATION LANE		
STATION	DISTANCE	ELEVATION
364+29.73	0.00	621.80
+50	0.57	622.49
+75	3.57	623.19
365+00	6.57	623.90
+25	9.57	624.60
+29.73	12.00	624.61
+50	↑	625.31
+75	↑	626.06
366+00	↑	626.81
+25	↑	627.56
+50	↑	628.31
+75	↑	629.06
367+00	↑	629.81
+25	↑	630.56
+50	↑	631.31
+75	12.00	632.06

RAMP "T" SUPERTABLE					
STATION	PROFILE GRADE	16 FEET LEFT	STATION	PROFILE GRADE	16 FEET LEFT
373+75	647.35	647.69	+25	661.50	661.25
374+00	648.23	648.52	+50	662.53	662.27
+25	649.17	649.42	+75	663.56	663.31
+50	650.17	650.42	378+00	664.59	664.34
+75	651.20	651.45	+25	665.62	665.37
375+00	652.23	652.48	+50	666.65	666.40
+25	653.26	653.45	+75	667.68	667.43
+50	654.29	654.37	379+00	668.71	668.46
+75	655.32	655.32	+25	669.70	669.45
376+00	656.35	656.27	+50	670.63	670.38
+25	657.38	657.21	+75	671.48	671.23
+50	658.41	658.16	380+00	672.27	672.02
+75	659.44	659.19	+19.89	672.87	672.63
377+00	660.47	660.22			

REST AREA
RAMP "T" DETAIL

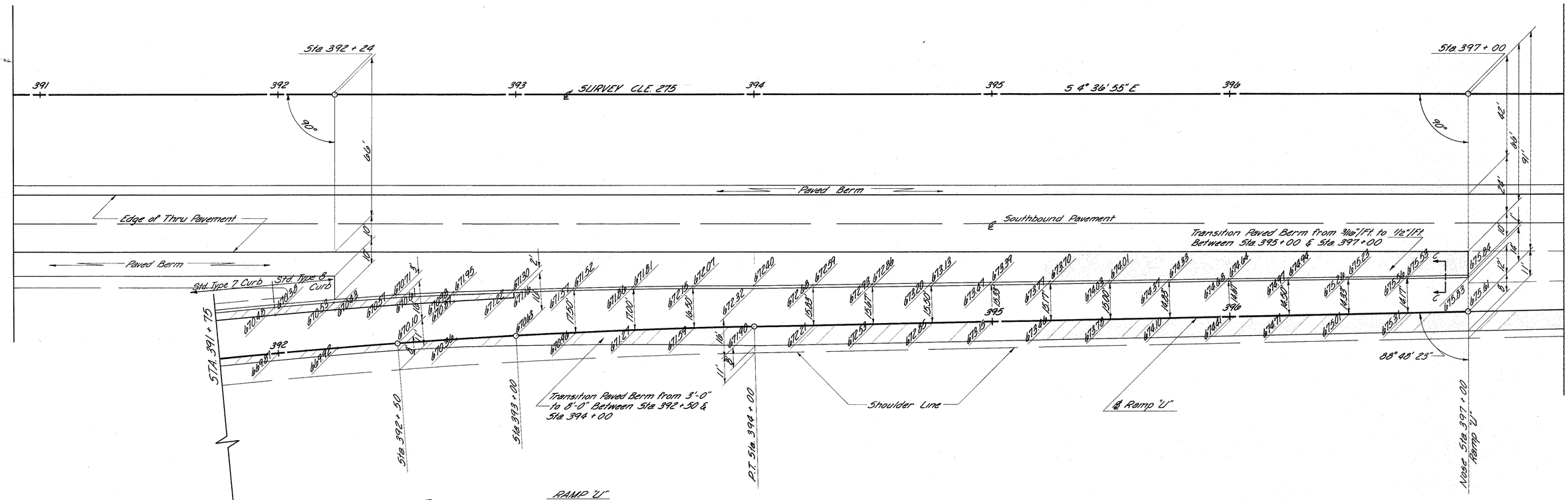
RAMP "U" ENTRANCE TERMINAL

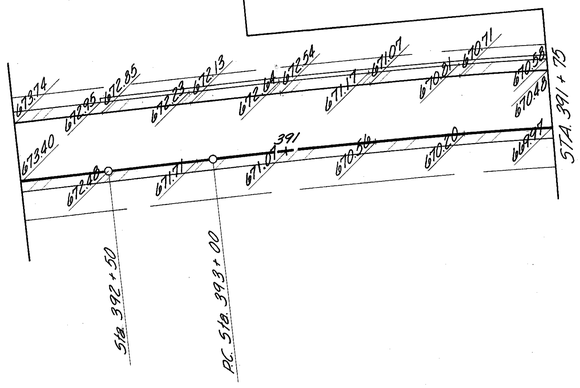
Note: For Section C-C See Sht. No. 16
Scale: 1"=20'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68





RAMP "U"
CURVE DATA
P.I.= Sta 392 + 39.97
Δ = 6° 24' 28"
D = 2° 00' 00"
R = 2,864.79'
L = 320.39'
T = 160.36'
E = 4.48'

RAMP "U" SUPERTABLE

STATION	PROFILE GRADE	16 FEET LEFT
386+00	689.08	689.33
+25	689.04	689.29
+50	688.71	688.96
+75	688.21	688.46
387+00	687.54	687.79
+25	686.68	686.93
+50	685.65	685.90
+75	684.53	684.78
388+00	683.41	683.66
+25	682.29	682.54
+50	681.17	681.42
+75	680.05	680.30
389+00	678.93	679.18
+25	677.81	678.06
+50	676.69	676.94
+75	675.57	675.82
390+00	674.45	674.74
+25	673.40	673.74

ACCELERATION (200' TAPER

STATION	DISTANCE	ELEVATION	STATION	DISTANCE	ELEVATION	STATION	DISTANCE	ELEVATION
397+00	25.00	675.61	+25	16.15	678.11	+50	7.29	682.60
+25	24.98	675.85	+50	15.82	678.22	+75	6.77	682.83
+50	23.96	676.07	+75	15.10	678.42	406+00	6.25	683.16
+75	24.44	676.25	402+00	14.58	678.66	+25	5.73	683.44
398+00	22.92	676.45	+25	14.06	678.94	+50	5.21	683.72
+25	22.40	676.65	+50	13.54	679.22	+75	4.69	684.01
+50	21.87	676.84	+75	13.02	679.50	407+00	4.17	684.29
+75	21.35	677.00	403+00	12.50	679.78	+25	3.65	684.57
399+00	20.83	677.10	+25	11.98	680.06	+50	3.12	684.85
+25	20.31	677.22	+50	11.46	680.34	+75	2.60	685.13
+50	19.79	677.30	+75	10.94	680.62	408+00	2.08	685.41
+75	19.27	677.32	404+00	10.42	680.90	+25	1.56	685.69
400+00	18.75	677.30	+25	9.89	681.19	+50	1.04	685.98
+25	18.23	677.23	+50	9.37	681.47	+75	0.52	686.26
+50	17.71	677.23	+75	8.85	681.75	409+00	0.00	686.54
+75	17.19	677.26	405+00	8.33	682.03			
401+00	16.67	677.97	+25	7.81	682.31			

REST AREA
RAMP "U" DETAIL

RAMP "V" ENTRANCE TERMINAL

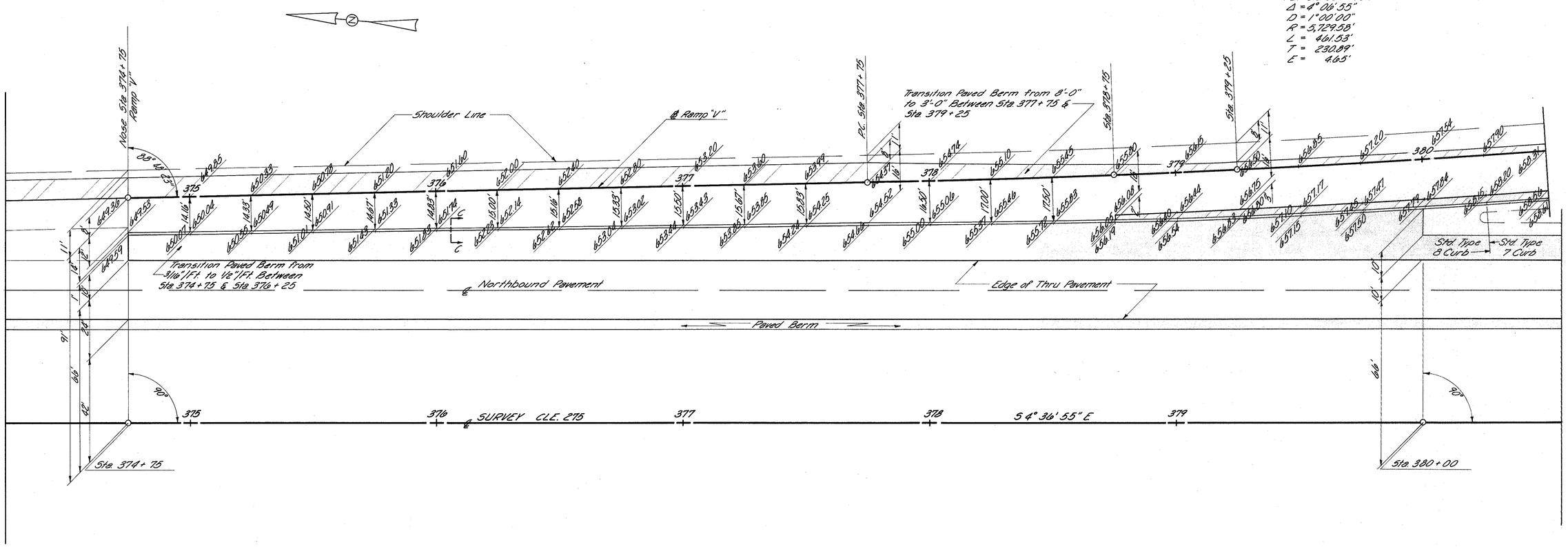
Note: For Section C-C See Sht. No. 16
Scale: 1" = 20'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CLERMONT COUNTY
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RAMP "V"
CURVE DATA
P.I. = Sta 380 + 05.89
Δ = 4° 06' 55"
D = 1° 00' 00"
R = 5,729.58'
L = 461.53'
T = 230.89'
C = 4.65'



ACCELERATION 1200' TAPER

STATION	DISTANCE	ELEVATION	STATION	DISTANCE	ELEVATION	STATION	DISTANCE	ELEVATION
362 + 75	0.00	617.25	367 + 00	8.85	629.86	+ 25	17.71	641.53
363 + 00	0.52	617.99	+ 25	9.38	630.60	+ 50	18.23	642.15
+ 25	1.04	618.73	+ 50	9.90	631.35	+ 75	18.75	642.76
+ 50	1.56	619.48	+ 75	10.42	632.09	372 + 00	19.27	643.35
+ 75	2.08	620.22	368 + 00	10.94	632.81	+ 25	19.79	643.94
364 + 00	2.60	620.96	+ 25	11.46	633.53	+ 50	20.31	644.51
+ 25	3.12	621.70	+ 50	11.98	634.24	+ 75	20.83	645.08
+ 50	3.65	622.44	+ 75	12.50	634.95	373 + 00	21.35	645.65
+ 75	4.17	623.18	369 + 00	13.02	635.65	+ 25	21.88	646.21
365 + 00	4.69	623.93	+ 25	13.54	636.34	+ 50	22.40	646.75
+ 25	5.21	624.67	+ 50	14.06	637.01	+ 75	22.92	647.29
+ 50	5.73	625.41	+ 75	14.58	637.68	374 + 00	23.44	647.81
+ 75	6.25	626.15	370 + 00	15.10	638.34	+ 25	23.96	648.34
366 + 00	6.77	626.89	+ 25	15.62	639.01	+ 50	24.48	648.85
+ 25	7.29	627.64	+ 50	16.15	639.65	+ 75	25.00	649.36
+ 50	7.81	628.38	+ 75	16.67	640.29			
+ 75	8.33	629.12	371 + 00	17.19	640.91			

RAMP "V" SUPERTABLE

STATION	PROFILE GRADE	16 FEET RIGHT	STATION	PROFILE GRADE	16 FEET RIGHT
380 + 50	658.31	658.56	384 + 00	667.30	667.55
+ 75	658.76	659.01	+ 25	668.00	668.25
381 + 00	659.26	659.51	+ 50	668.70	668.95
+ 25	659.80	660.05	+ 75	669.40	669.65
+ 50	660.39	660.64	385 + 00	670.10	670.35
+ 75	661.02	661.27	+ 25	670.77	671.02
382 + 00	661.70	661.95	+ 50	671.39	671.64
+ 25	662.40	662.65	+ 75	671.95	672.20
+ 50	663.10	663.35	386 + 00	672.45	672.70
+ 75	663.80	664.05	+ 25	672.90	673.15
383 + 00	664.50	664.75	+ 50	673.29	673.37
+ 25	665.20	665.45	+ 75	673.62	673.54
+ 50	665.90	666.15	387 + 00	673.90	673.65
+ 75	666.60	666.85			

REST AREA
RAMP "V" DETAIL

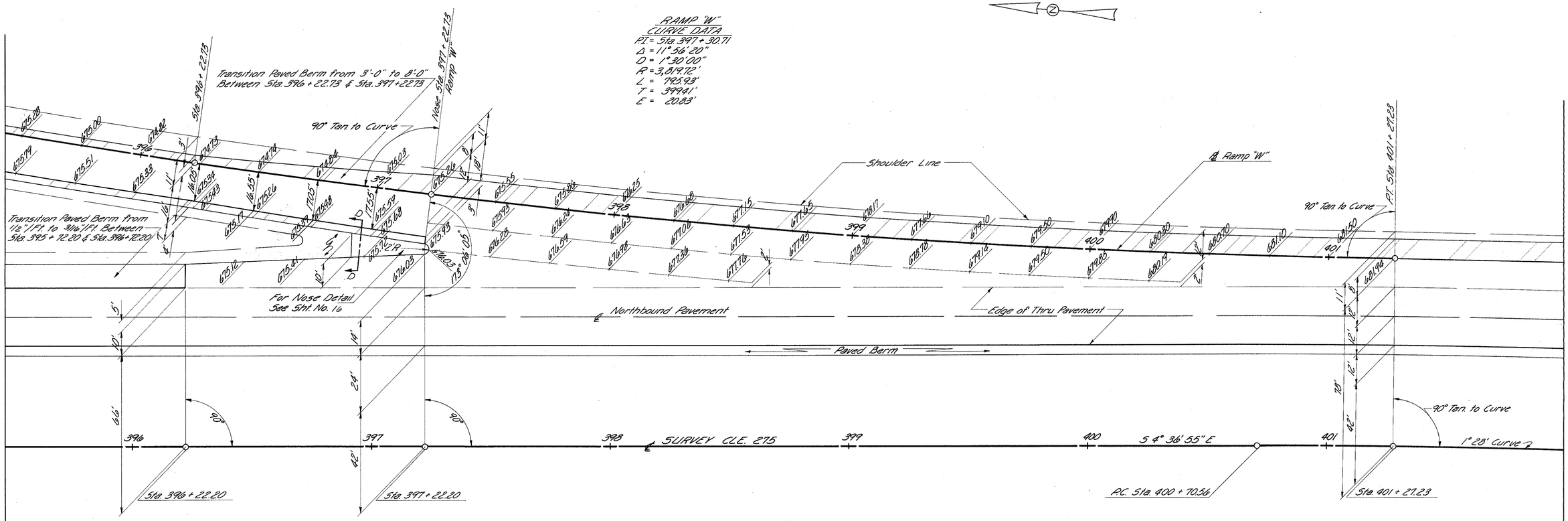
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
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RAMP "W" EXIT TERMINAL

Note: For Sections D-D See Sht. No. 16
Scale: 1" = 20'-0"



RAMP "W" SUPERTABLE		
STATION	PROFILE GRADE	16 FEET RIGHT
392+00	679.19	678.94
+25	679.39	679.14
+50	679.50	679.25
+75	679.51	679.34
393+00	679.43	679.35
+25	679.25	679.25
P.C. +31.90	679.19	679.22
+50	678.98	679.11
+75	678.61	678.87
394+00	678.15	678.53
+25	677.64	678.15
+50	677.13	677.64
+75	676.62	677.13
395+00	676.11	676.62
+25	675.65	676.16
+50	675.28	675.79

DECELERATION LANE		
STATION	DISTANCE	ELEVATION
401+25	12.00	681.90
+50	↑	682.30
+75		682.70
402+00		683.10
+25		683.42
+50		683.69
+75		683.94
403+00		684.29
+25		684.44
+50		684.69
+75		684.94
404+00		685.29
+22.20	12.00	685.61
+25	11.66	685.62
+50	8.66	685.69
+75	5.66	685.55
405+00	2.66	685.62
+22.20	0.00	685.68

REST AREA
RAMP "W" DETAIL

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CLERMONT COUNTY
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NOTES:
For Ramp "V" Superelevation Table See Sht. No. 98
For Ramp "W" Superelevation Table See Sht. No. 99
* Transition Std. Type 7 Curb from 9" to 6" in height.
** Transition Std. Type 7 Curb from 9" to 2" in height.

Sta. 80+35
73' Lt.
Concrete Sidewalk
Std. Type 6 Curb
Depress Curb
Std. Type 7 Curb
P.T. Sta 87 + 37.50
35.50' Lt.
Sta 87+57.66
16.25' Lt.
Sta. 87+81.86, 35' Lt.
Sta. 87+91.50, 10.5' Lt.
5' Concrete Sidewalk
3 Concrete Sidewalk
Sta. 88+89, 13.5' Lt.
Sta. 89+96.50, 13.5' Lt.
Sta 91 + 04.98, 35' Lt.
Sta 91 + 27.48, 20.90' Lt.
Sta. 87+62.50, 10' Lt.
Sta. 90+91, 10.5' Lt.
Sta 91 + 23.50
Sta 91 + 24.78, 10' Lt.
Sta 91 + 29.28
17.18' Lt.
Sta 92 + 08.23 Parking Area
PRC Sta 391+97.57
Ramp "W"
Ramp "V"
Ramp "U"
PC. Sta 387 + 36.57, 16' Rt.
Ramp "V"
P.T. Sta 87 + 42.88, 26' Rt.
Sta. 387+41.14
Ramp "V"
Sta. 387+37.50
Shoulder Line
SURVEY CLE. 275
S 4° 36' 55" E
PC. Sta 91 + 39.33
42.31' Lt.
Std. Type 7 Curb
Sta 91 + 48.20, 21' Rt.
Sta. 391+23.50
Sta 380 + 13.62
Sta 80 + 24.71
Sta 80 + 46.61
Sta 80 + 68.30
Sta 80 + 93
Sta 81 + 91.72, 10' Rt.
Sta 80 + 89.22
12.18' Rt.
Sta 80 + 89.06
20.90' Rt.
Sta 81 + 11.52
35' Rt.
Sta 81+25, 10.5' Rt.
Sta 82+18.5, 13.5' Rt.
Sta 83+26, 13.5' Rt.
Sta 84 + 54, 10' Rt.
Sta 84+24, 10.5' Rt.
Sta 84 + 34.64, 35' Rt.
Sta 84 + 58.84, 16.5' Rt.
Sta 82+72
75' Rt.
Sta 384 + 82.31
Sta 384+76.94
PC. Sta 384+82.94
PT. Sta 385+88.10
Sta 84+79
PC. Sta 84 + 79
41.76' Rt.
PT. Sta 385+88.10
Depress Curb
Ramp "T"
Ramp "U"
Sta 80 + 77.17
82.31' Rt.
PC. Sta 380 + 19.09 Ramp "T"
Sta 80 + 40.61 Parking Area
Sta 384+82.94
PC. Sta 84+80.26
201.59'
P.T. Sta 385+88.10
Sta 84+79
PC. Sta 84 + 79
41.76' Rt.
Sta 84+79
Std. Type 7 Curb
Std. Type 6 Curb
Concrete Sidewalk
Sta 82+72
75' Rt.

NOTES:
For Ramp "T" Superelevation Table See Sht. No. 96
For Ramp "U" Superelevation Table See Sht. No. 97
* Transition Std. Type 7 Curb from 9" to 6" in height.
** Transition Std. Type 7 Curb from 9" to 2" in height.

REST AREA PARKING LOTS

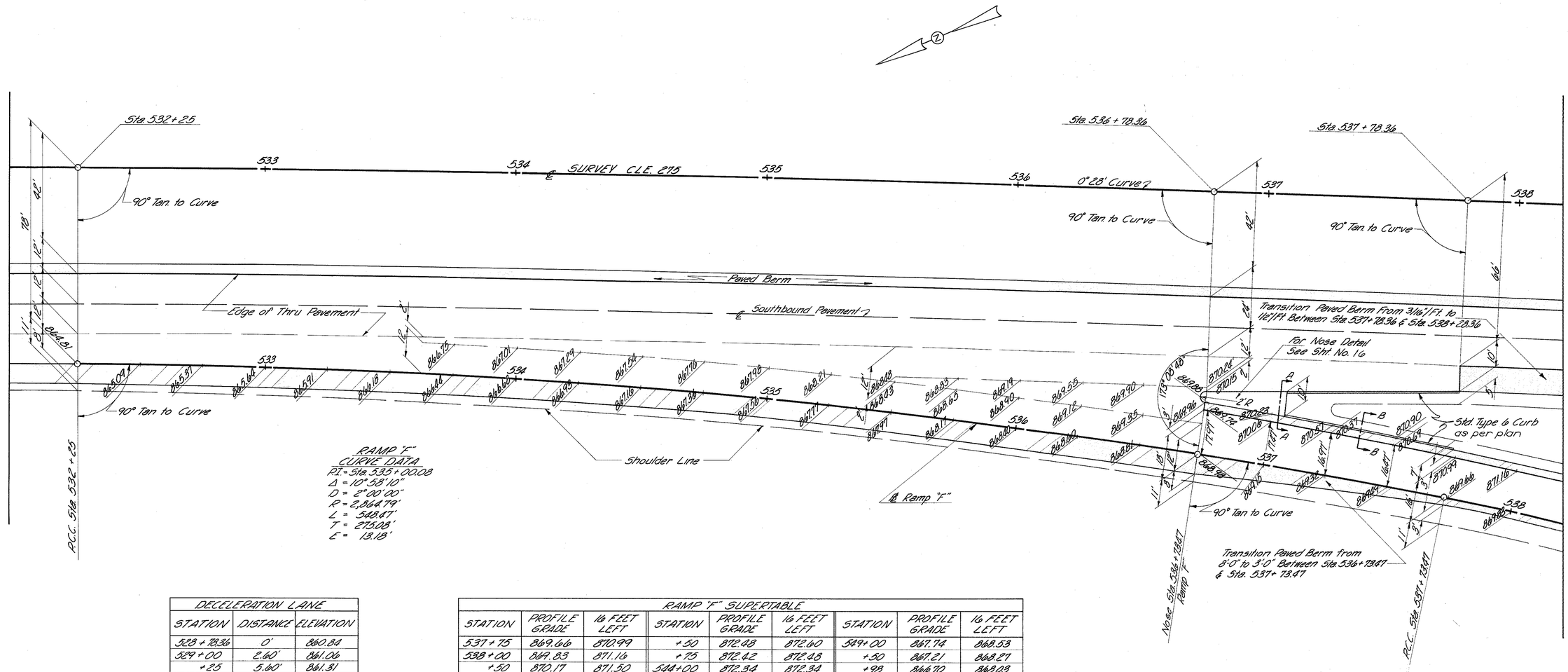
RAMP "F" EXIT TERMINAL

Note: For Sections A-A & B-B See Sht. No. 16
Scale: 1"=20'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CLERMONT COUNTY
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RAMP "F"
CURVE DATA
P.I. = Sta. 535+00.08
Δ = 10°58'10"
D = 2°00'00"
R = 2,864.79'
L = 548.47'
T = 275.08'
E = 13.18'

DECELERATION LANE		
STATION	DISTANCE	ELEVATION
528+78.36	0'	860.84
529+00	2.60'	861.06
+25	5.60'	861.31
+50	8.60'	861.57
+75	11.60'	861.82
+78.36	12'	861.85
530+00	12'	862.11
+25	12'	862.41
+50	12'	862.71
+75	12'	863.01
531+00	12'	863.31
+25	12'	863.61
+50	12'	863.91
+75	12'	864.21
532+00	12'	864.51
+25	12'	864.81

RAMP "F" SUPERTABLE								
STATION	PROFILE GRADE	16 FEET LEFT	STATION	PROFILE GRADE	16 FEET LEFT	STATION	PROFILE GRADE	16 FEET LEFT
537+75	869.66	870.99	+50	872.48	872.60	549+00	867.74	868.53
538+00	869.83	871.16	+75	872.42	872.48	+50	867.21	868.27
+50	870.17	871.50	544+00	872.34	872.34	+98	866.70	868.03
539+00	870.51	871.84	+25	872.25	872.12	550+00	866.68	868.01
+50	870.85	872.18	+50	872.12	871.85	+25	866.41	867.74
540+00	871.19	872.52	+6641	872.03	871.64	+50	866.15	867.48
+50	871.53	872.86	+75	871.98	871.58	+75	865.88	867.21
541+00	871.87	873.20	545+00	871.81	871.27	551+00	865.62	866.95
+25	872.03	873.22	+25	871.62	870.95	+25	865.35	866.68
+50	872.17	873.23	+50	871.41	870.74	+50	865.21	866.64
+75	872.28	873.20	+75	871.18	870.51	+75	865.07	866.40
+8234	872.31	873.19	546+00	870.92	870.36	552+00	864.93	866.26
542+00	872.38	873.17	+50	870.39	870.05	+25	864.79	866.12
+25	872.45	873.10	+6378	870.24	869.96	+50	864.65	865.98
+37	872.47	873.06	547+00	869.86	869.75	+75	864.51	865.84
+50	872.50	873.02	+50	869.33	869.41	553+00	864.37	865.70
+75	872.53	872.92	548+00	868.80	869.04	+25	864.23	865.56
543+00	872.53	872.78	+50	868.27	868.79			
+25	872.51	872.70	+71.15	868.05	868.64			

STATE ROUTE 32 INTERCHANGE
RAMP "F" DETAIL

RAMP "F" ENTRANCE TERMINAL

Note: For Section C-C See Sht. No. 16
Scale: 1" = 20'-0"

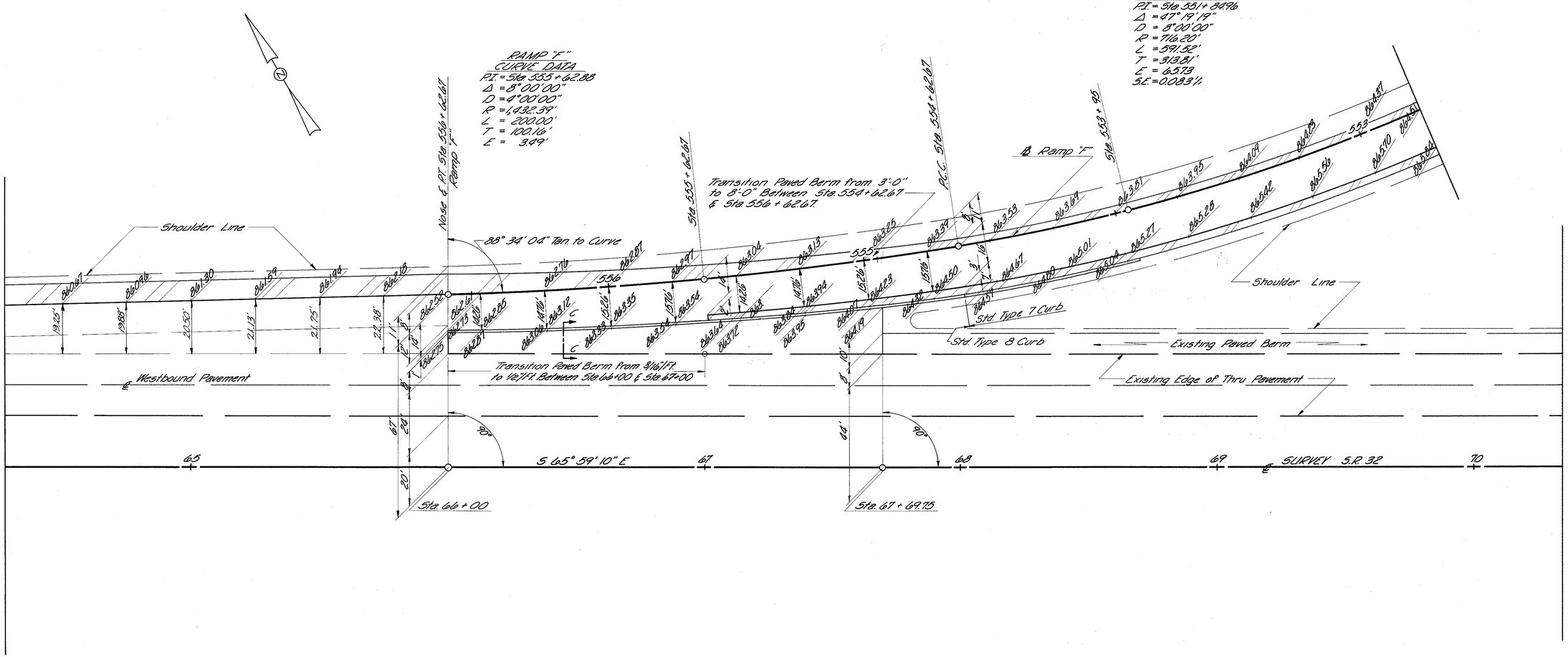
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
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RAMP "F"
CURVE DATA
P.I. = Sta. 555+62.88
Δ = 8°00'00"
D = 4°00'00"
R = 1,432.39'
L = 200.00'
T = 100.16'
E = 3.49'

RAMP "F"
CURVE DATA
P.I. = Sta. 551+84.96
Δ = 47°19'19"
D = 8°00'00"
R = 716.20'
L = 591.52'
T = 313.81'
E = 65.73
SE = 0.083%



ACCELERATION 920' TAPER					
STATION	DISTANCE	ELEVATION	STATION	DISTANCE	ELEVATION
56+80	0.00	851.48	+75	9.88	856.28
57+00	0.50	851.72	61+00	10.50	856.50
+25	1.13	852.04	+25	11.13	856.79
+50	1.75	852.30	+50	11.75	857.12
+75	2.38	852.60	+75	12.43	857.38
58+00	3.00	852.85	62+00	13.00	857.64
+25	3.63	853.12	+25	13.63	857.97
+50	4.25	853.48	+50	14.25	858.27
+75	4.88	853.78	+75	14.88	858.57
59+00	5.50	854.13	63+00	15.50	858.91
+25	6.13	854.40	+25	16.13	859.18
+50	6.75	854.69	+50	16.75	859.52
+75	7.38	855.08	+75	17.38	859.85
60+00	8.00	855.33	64+00	18.00	860.10
+25	8.63	855.63	+25	18.63	860.41
+50	9.25	855.95	+50	19.25	860.67

Note: For Ramp "F" Superelevation Table See Sheet No. 101

STATE ROUTE 32 INTERCHANGE
RAMP "F" DETAIL

RAMP "G" EXIT TERMINAL

Note: For Section D-D See Sht. No. 16
Scale: 1" = 20'-0"

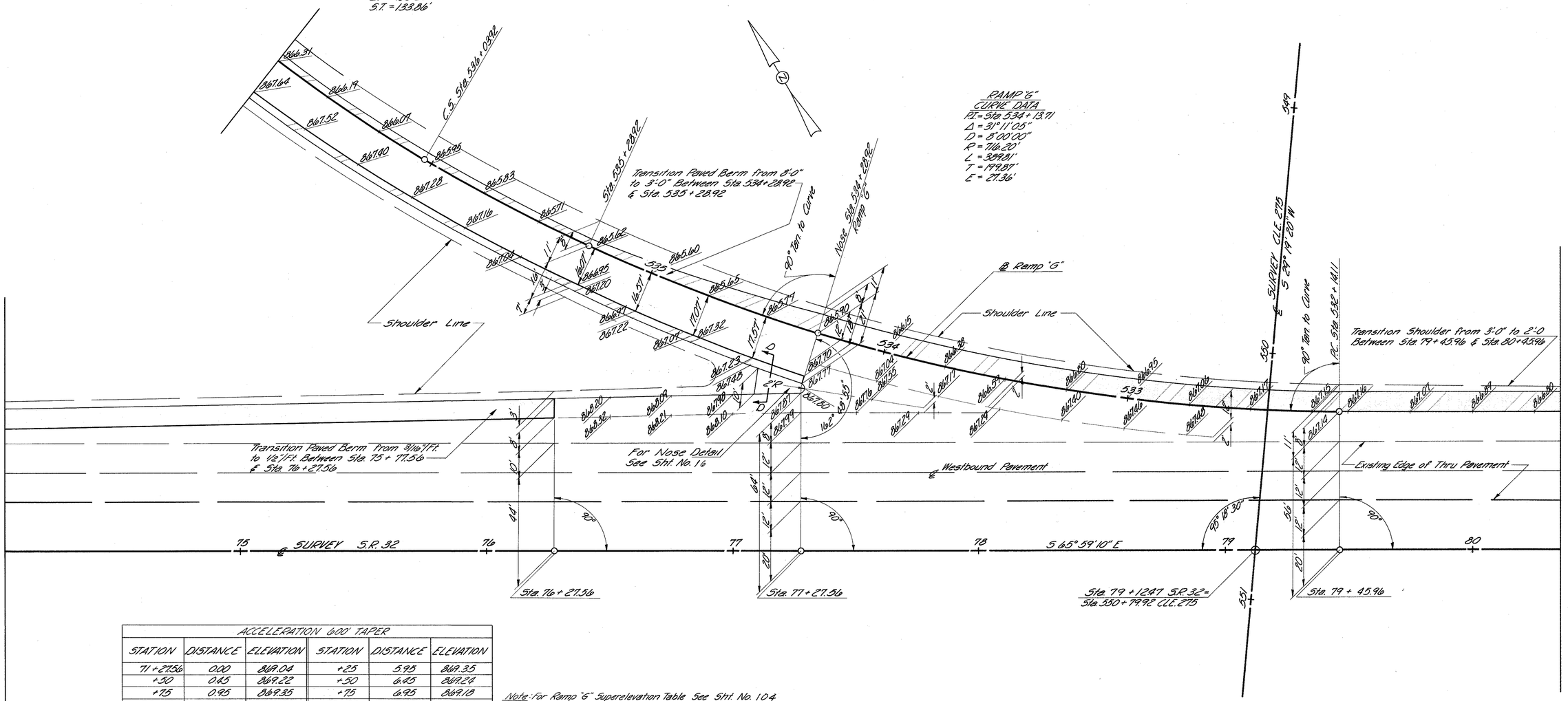
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
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RAMP "G"
SPIRAL DATA
θs = 49° 30' 00"
Ls = 300.00'
LT = 186.29'
ST. = 133.86'

RAMP "G"
CURVE DATA
PI. = Sta 534 + 13.71
Δ = 31° 11' 05"
D = 8° 00' 00"
R = 716.20'
L = 389.81'
T = 199.87'
E = 27.36'



ACCELERATION 600' TAPER					
STATION	DISTANCE	ELEVATION	STATION	DISTANCE	ELEVATION
71 + 27.56	0.00	869.04	+25	5.95	869.35
+50	0.45	869.22	+50	6.45	869.24
+75	0.95	869.35	+75	6.95	869.13
72+00	1.45	869.47	75+00	7.45	869.00
+25	1.95	869.56	+25	7.95	868.85
+50	2.45	869.66	+50	8.45	868.78
+75	2.95	869.66	+75	8.95	868.63
73+00	3.45	869.87	76+00	9.45	868.53
+25	3.95	869.65	+25	9.95	868.42
+50	4.35	869.64	+50	10.45	868.32
+75	4.95	869.54	+75	10.95	868.21
74+00	5.45	869.44			

Note: For Ramp "G" Superelevation Table See Sht. No. 104

STATE ROUTE 32 INTERCHANGE
RAMP "G" DETAIL

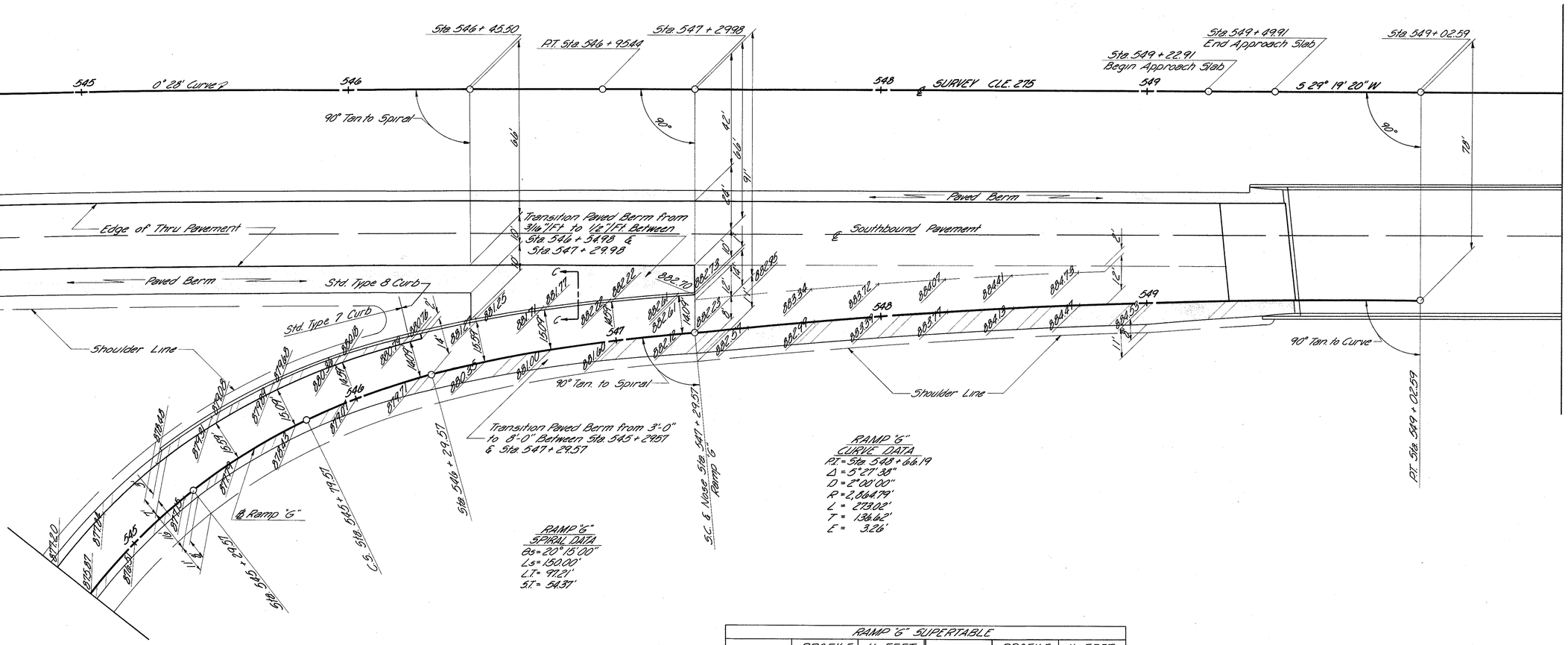
RAMP "G" ENTRANCE TERMINAL

Note: For Section C-C See Sht. No. 16
Scale: 1"=20'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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RAMP "G"
SPIRAL DATA
Θs = 20° 15' 00"
Ls = 150.00'
L.T. = 97.21'
S.T. = 54.37'

RAMP "G"
CURVE DATA
P.I. = Sta 548+66.19
Δ = 5° 27' 38"
D = 2° 00' 00"
R = 2,864.79'
L = 273.02'
T = 136.62'
E = 3.26'

SC. & Note: Sta 547+29.57 Ramp "G"

RAMP "G"
CURVE DATA
P.I. = Sta 536+65.26
Δ = 168° 54' 47"
D = 25° 00' 00"
R = 229.18'
L = 675.65'
T = 2,361.34'
E = 2,143.26'
SE = 0.083'

RAMP "G" SUPERTABLE

STATION	PROFILE GRADE	16 FEET LEFT	STATION	PROFILE GRADE	16 FEET LEFT
536+00	865.95	867.28	+75	868.23	869.56
+25	866.07	867.40	541+00	868.35	869.68
+50	866.14	867.52	+25	868.50	869.83
+75	866.31	867.64	+50	868.72	870.05
537+00	866.43	867.76	+75	869.00	877.33
+25	866.55	867.88	542+00	869.35	870.68
+50	866.67	868.00	+25	869.75	871.08
+75	866.79	868.12	+50	870.24	871.57
538+00	866.91	868.24	+75	870.78	872.11
+25	867.03	868.36	543+00	871.39	872.72
+50	867.15	868.48	+25	872.03	873.36
+75	867.27	868.60	+50	872.67	874.00
539+00	867.39	868.72	+75	873.31	874.64
+25	867.51	868.84	544+00	873.95	875.28
+50	867.63	868.96	+25	874.59	875.92
+75	867.75	869.08	+50	875.23	876.56
540+00	867.87	869.20	+75	875.87	877.20
+25	867.99	868.32	545+00	876.51	877.84
+50	868.11	868.44	+25	877.15	878.48

STATE ROUTE 32 INTERCHANGE
RAMP "G" DETAIL

RAMP "H" ENTRANCE TERMINAL

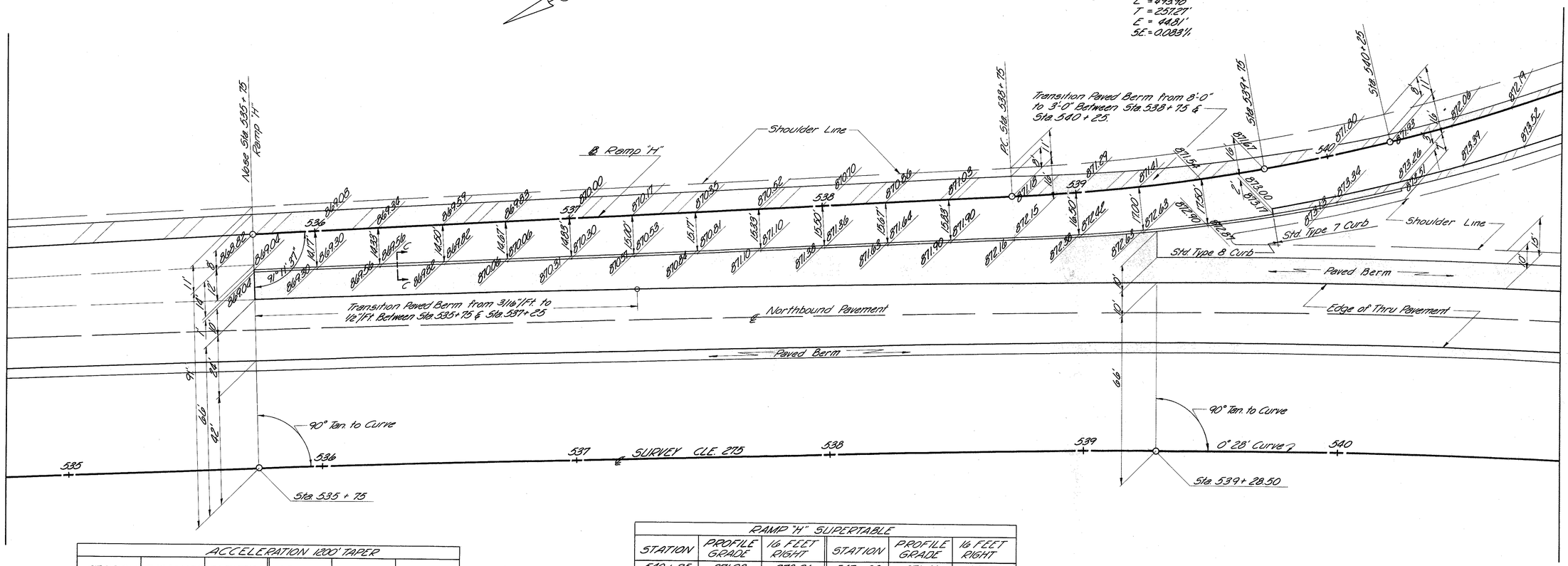
Note: For Section C-C, See Sht. No. 16
Scale: 1" = 20'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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RAMP "H"
CURVE DATA
P.I. = Sta 541 + 35.27
Δ = 39°31'06"
D = 8°00'00"
R = 716.20'
L = 493.98'
T = 257.27'
E = 44.81'
SE = 0.083'/'



ACCELERATION 1200' TAPER

STATION	DISTANCE	ELEVATION	STATION	DISTANCE	ELEVATION
523 + 75	0.00	854.80	530+00	13.02	862.10
524 + 00	0.50	855.10	+ 25	13.51	862.39
+ 25	1.01	855.39	+ 50	14.06	862.68
+ 50	1.56	855.68	+ 75	14.58	862.97
+ 75	2.08	855.97	531+00	15.10	863.27
525+00	2.60	856.26	+ 25	15.62	863.56
+ 25	3.12	856.55	+ 50	16.14	863.85
+ 50	3.65	856.84	+ 75	16.67	863.14
+ 75	4.16	857.13	532+00	17.19	864.43
526+00	4.69	857.43	+ 25	17.71	864.72
+ 25	5.21	857.72	+ 50	18.23	865.02
+ 50	5.73	858.01	+ 75	18.75	865.31
+ 75	6.25	858.30	533+00	19.27	865.60
527+00	6.77	858.59	+ 25	19.79	865.89
+ 25	7.29	858.89	+ 50	20.31	866.18
+ 50	7.81	859.18	+ 75	20.83	866.48
+ 75	8.33	859.87	534+00	21.35	866.77
528+00	8.85	859.76	+ 25	21.87	867.06
+ 25	9.37	860.05	+ 50	22.40	867.35
+ 50	9.89	860.35	+ 75	22.92	867.64
+ 75	10.42	860.64	535+00	23.44	867.94
529+00	10.94	860.93	+ 25	23.96	868.23
+ 25	11.46	861.22	+ 50	24.48	868.52
+ 50	11.98	861.51	+ 75	25.00	868.82
+ 75	12.50	861.80			

RAMP "H" SUPERTABLE

STATION	PROFILE GRADE	16 FEET RIGHT	STATION	PROFILE GRADE	16 FEET RIGHT
540 + 25	871.93	873.26	547+00	871.41	871.66
+ 50	872.06	873.39	+ 25	871.02	871.27
+ 75	872.19	873.52	+ 50	870.60	870.94
541+00	872.32	873.65	+ 75	870.14	870.57
+ 25	872.45	873.78	548+00	869.66	870.18
+ 50	872.58	873.91	+ 25	869.16	869.77
+ 75	872.71	874.04	+ 50	868.66	869.36
542+00	872.84	874.18	+ 75	868.16	868.95
+ 25	872.97	874.30	549+00	867.66	868.54
+ 50	873.10	874.43	+ 25	867.16	868.13
+ 75	873.23	874.56	+ 50	866.66	867.72
543+00	873.36	874.69	+ 75	866.16	867.31
+ 25	873.47	874.70	550+00	865.66	866.89
+ 50	873.56	874.71	+ 25	865.16	866.49
+ 75	873.61	874.61	+ 50	864.66	865.99
544+00	873.63	874.60	+ 75	864.16	865.49
+ 25	873.62	874.50	551+00	863.66	864.99
+ 50	873.57	874.36	+ 25	863.16	864.49
+ 75	873.50	874.20	+ 50	862.70	864.03
545+00	873.39	874.00	+ 75	862.33	863.66
+ 25	873.25	873.77	552+00	862.08	863.35
+ 50	873.09	873.51	+ 25	861.84	863.17
+ 75	872.88	873.22	+ 50	861.72	863.05
546+00	872.65	872.90	+ 75	861.69	863.02
+ 25	872.39	872.64	553+00	861.33	862.66
+ 50	872.09	872.34	+ 25	861.06	862.39
+ 75	871.77	872.02	+ 50	860.87	862.20

STATE ROUTE 32 INTERCHANGE
RAMP "H" DETAIL

RAMP "H" EXIT TERMINAL

Note: For Section A-A & B-B See Sht. No. 16
Scale: 1" = 20'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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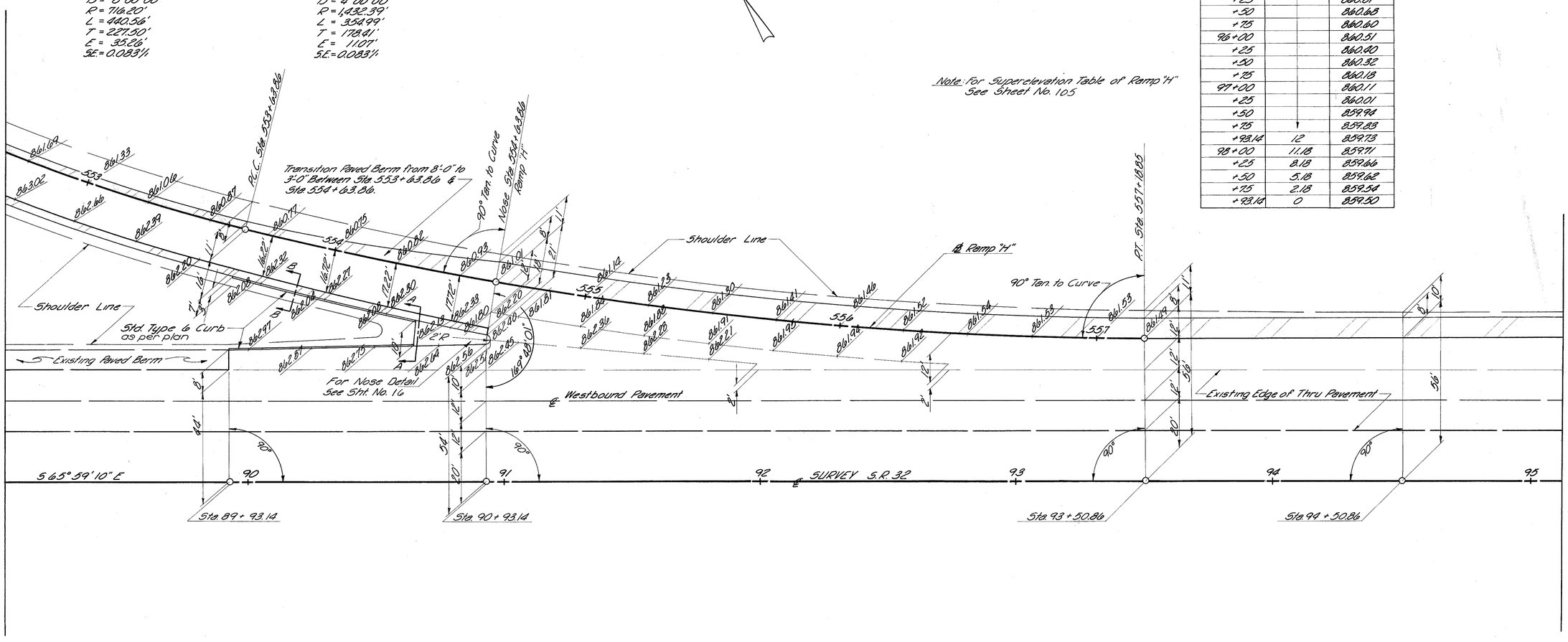
CLERMONT COUNTY
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RAMP "H" CURVE DATA
PI = Sta 551+36.36
Δ = 35° 14' 00"
D = 8° 00' 00"
R = 716.20'
L = 440.56'
T = 227.50'
E = 35.26'
SE = 0.083'/'

RAMP "H" CURVE DATA
PI = Sta 555+42.27
Δ = 14° 11' 59"
D = 4° 00' 00"
R = 1,432.39'
L = 354.99'
T = 178.41'
E = 11.07'
SE = 0.083'/'

Note: For Superelevation Table of Ramp "H" See Sheet No. 105

DECELERATION LANE		
STATION	DISTANCE	ELEVATION
93+50.86	12	861.49
+75		861.38
94+00		861.28
+25		861.20
+50		861.10
+75		860.96
95+00		860.88
+25		860.81
+50		860.68
+75		860.60
96+00		860.51
+25		860.40
+50		860.32
+75		860.18
97+00		860.11
+25		860.01
+50		859.94
+75		859.83
+93.14	12	859.73
98+00	11.18	859.71
+25	8.18	859.66
+50	5.18	859.62
+75	2.18	859.54
+93.14	0	859.50



STATE ROUTE 32 INTERCHANGE
RAMP "H" DETAIL

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

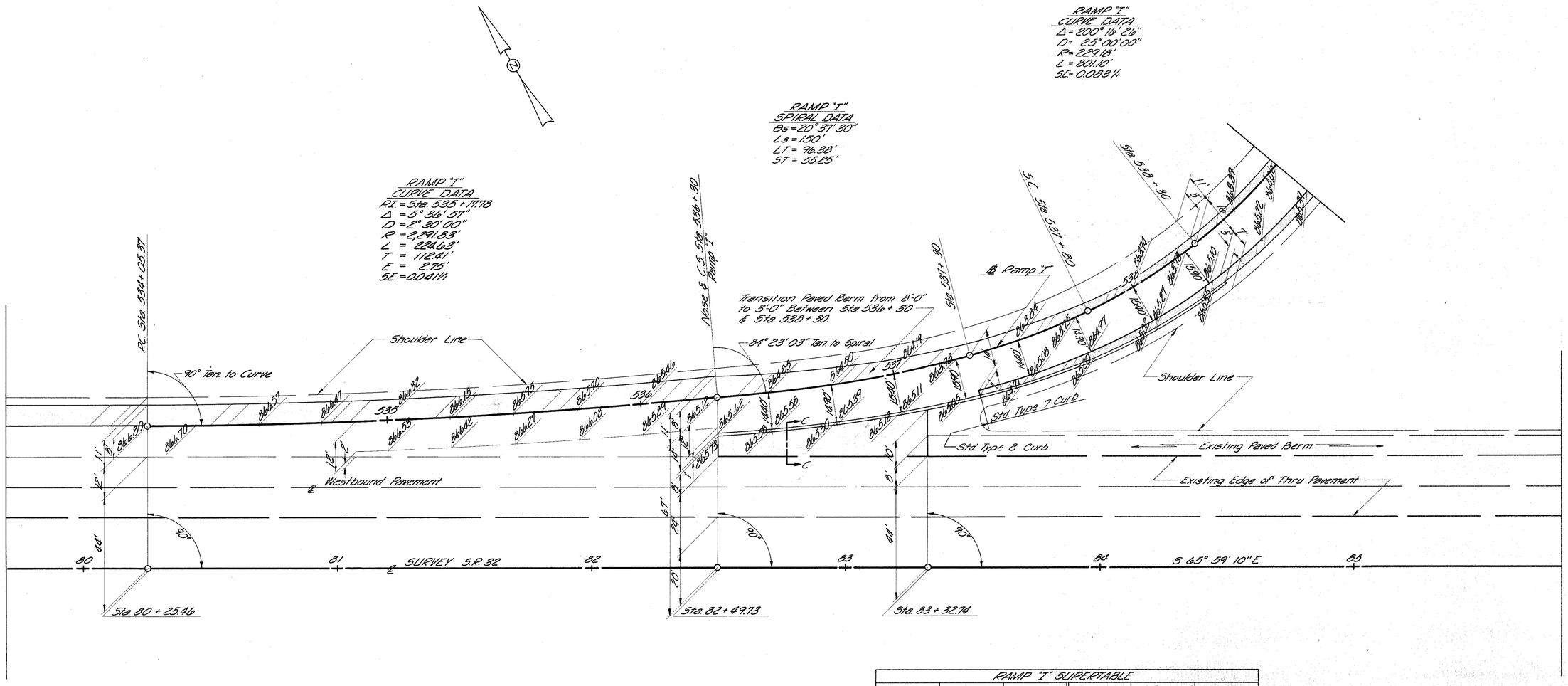
107/638

CLERMONT COUNTY
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472 Read
107- 218

RAMP "I" ENTRANCE TERMINAL

Note: For Section C-C See Sht. No.16
Scale: 1"=20'-0"



Note: For Ramp "I" Acceleration Offsets & Elevations See Sht. No. 108

RAMP "I" SUPERTABLE

STATION	PROFILE GRADE	16 FEET RIGHT	STATION	PROFILE GRADE	16 FEET RIGHT
538+50	863.89	865.22	+50	871.07	872.40
+75	864.06	865.39	+75	871.39	872.92
539+00	864.30	865.63	543+00	872.11	873.44
+25	864.59	865.92	+25	872.63	873.96
+50	864.96	866.29	+50	873.15	874.48
+75	865.38	866.71	+75	873.67	875.00
540+00	865.87	867.20	544+00	874.19	875.52
+25	866.39	867.72	+25	874.71	876.04
+50	866.91	868.24	+50	875.23	876.56
+75	867.43	868.76	+75	875.75	877.08
541+00	867.95	869.28	545+00	876.27	877.60
+25	868.47	869.80	+25	876.79	878.12
+50	868.99	870.32	+50	877.31	878.64
+75	869.51	870.74	+75	877.83	879.16
542+00	870.03	871.36	546+00	878.35	879.68
+25	870.55	871.88	+25	878.87	880.20

STATE ROUTE 32 INTERCHANGE
RAMP "I" DETAIL

RAMP "I" EXIT TERMINAL

Note: For Section D-D See Sht. No. 16.
Scale: 1"=20'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
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RAMP "I"
CURVE DATA
Δ = 200° 16' 26"
D = 25° 00' 00"
R = 229.18'
L = 801.10'
SE = 0.083 ft/ft

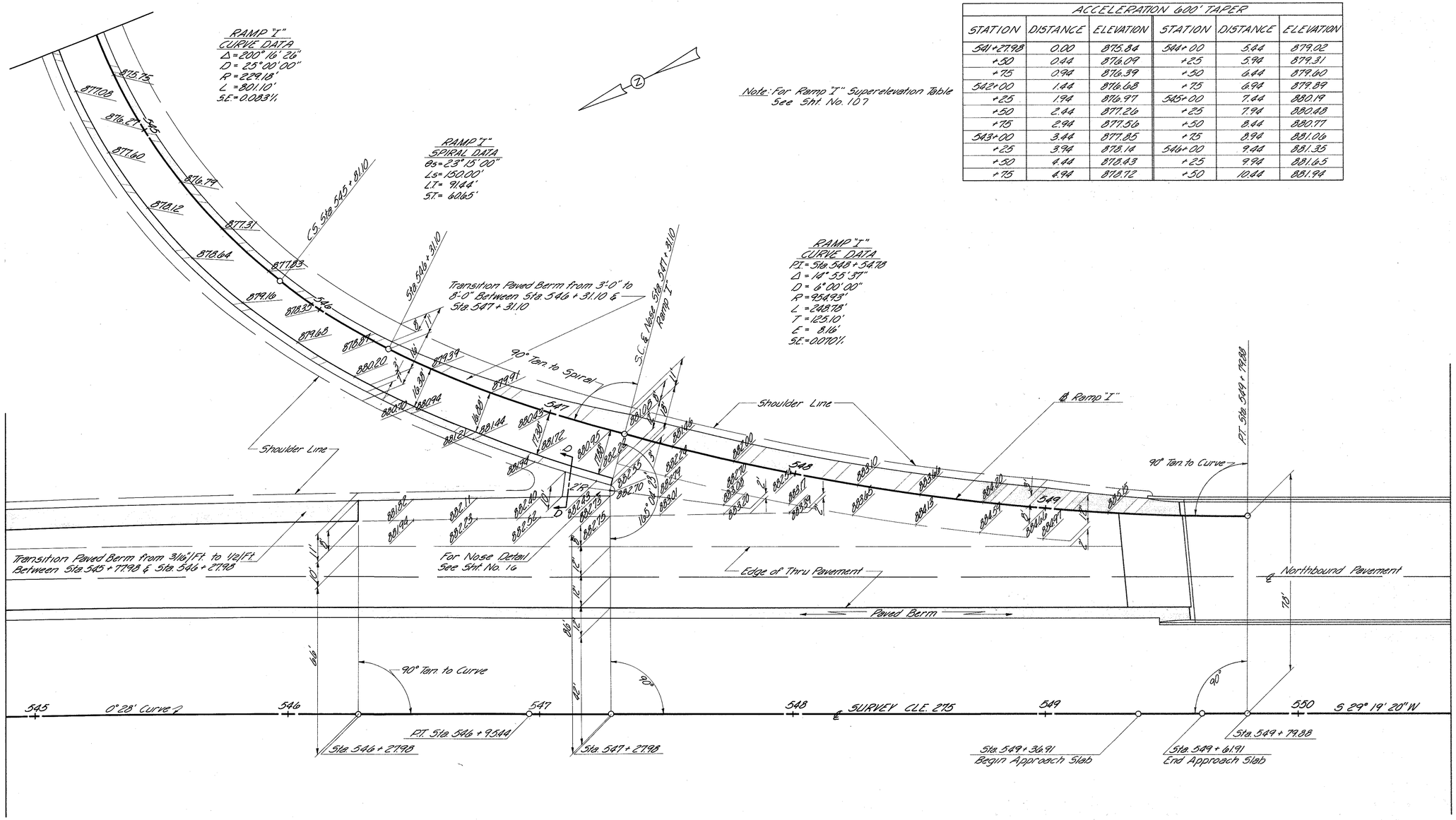
RAMP "I"
SPIRAL DATA
θs = 23° 15' 00"
Ls = 150.00'
LT = 91.44'
ST = 60.65'

RAMP "I"
CURVE DATA
PI = Sta 548 + 54.78
Δ = 14° 55' 57"
D = 6° 00' 00"
R = 954.93'
L = 248.78'
T = 125.10'
E = 8.16'
SE = 0.070 ft/ft

Note: For Ramp "I" Superelevation Table See Sht. No. 107

ACCELERATION 600' TAPER

STATION	DISTANCE	ELEVATION	STATION	DISTANCE	ELEVATION
541+27.98	0.00	875.84	544+00	5.44	879.02
+50	0.44	876.09	+25	5.94	879.31
+75	0.94	876.39	+50	6.44	879.60
542+00	1.44	876.68	+75	6.94	879.89
+25	1.94	876.97	545+00	7.44	880.19
+50	2.44	877.26	+25	7.94	880.48
+75	2.94	877.56	+50	8.44	880.77
543+00	3.44	877.85	+75	8.94	881.06
+25	3.94	878.14	546+00	9.44	881.35
+50	4.44	878.43	+25	9.94	881.65
+75	4.94	878.72	+50	10.44	881.94



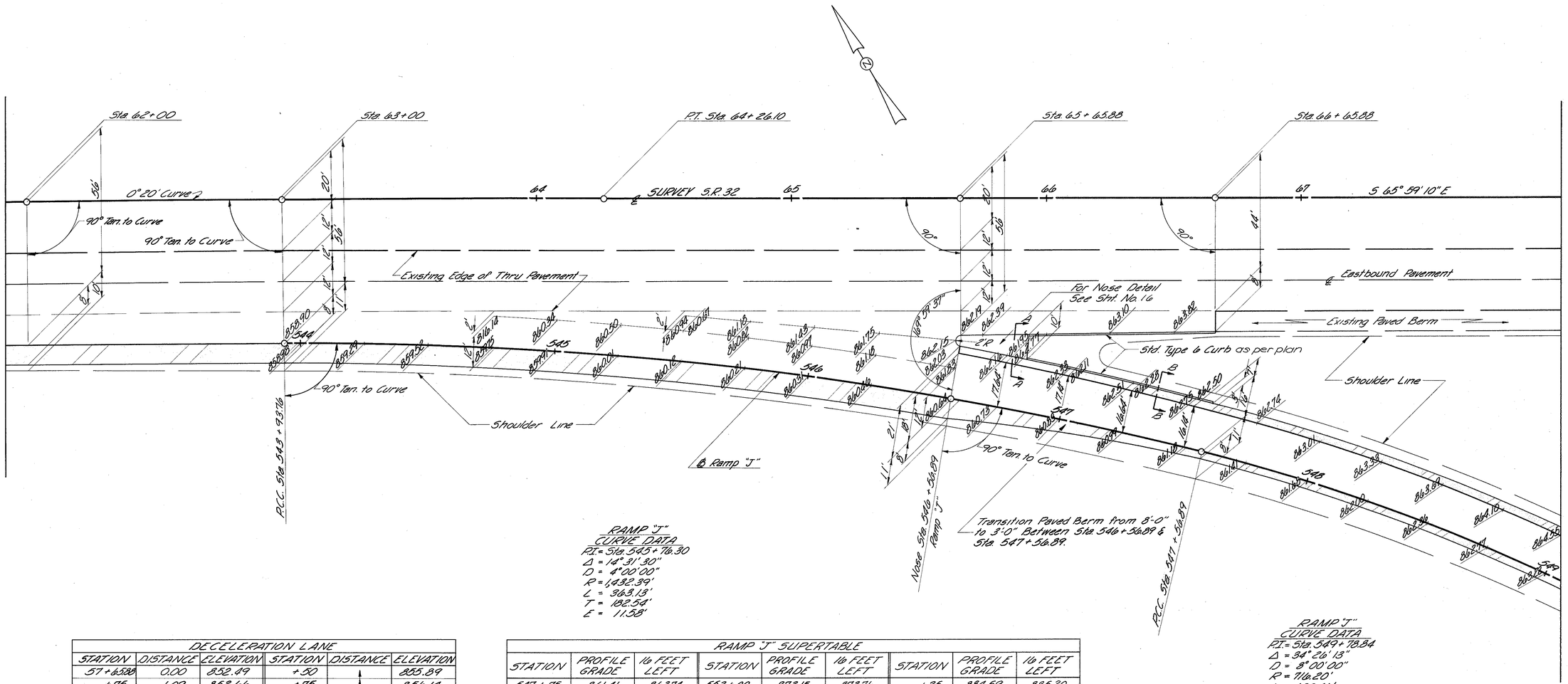
RAMP "J" EXIT TERMINAL

Note: For Sections A-A & B-B See Sht. No. 16
Scale: 1" = 20'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CLERMONT COUNTY
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RAMP "J"
CURVE DATA
PI = Sta. 545+76.30
Δ = 14° 31' 30"
D = 4° 00' 00"
R = 1432.39'
L = 363.13'
T = 182.54'
E = 11.58'

RAMP "J"
CURVE DATA
PI = Sta. 549+78.84
Δ = 94° 26' 13"
D = 8° 00' 00"
R = 716.20'
L = 430.46'
T = 221.95'
E = 33.60'

DECELERATION LANE

STATION	DISTANCE	ELEVATION	STATION	DISTANCE	ELEVATION
57+68.89	0.00	852.49	+50	↕	855.89
+75	1.09	852.66	+75		856.14
58+00	4.09	852.89	61+00		856.56
+25	7.09	853.14	+25		856.78
+50	10.09	853.40	+50		857.19
+75	12.00	853.66	+75		857.42
59+00	↑	854.02	62+00		857.72
+25	↕	854.30	+25		858.02
+50		854.57	+50		858.30
+75		854.86	+75	↓	858.65
60+00		855.19	63+00	12.00	858.90
+25	↓	855.56			

Note: For Ramp "J" Acceleration Table See Sht. No. 110

RAMP "J" SUPERTABLE

STATION	PROFILE GRADE	16 FEET LEFT	STATION	PROFILE GRADE	16 FEET LEFT	STATION	PROFILE GRADE	16 FEET LEFT
547+75	861.41	862.74	553+00	873.15	873.76	+25	884.59	885.20
548+00	861.68	863.01	+25	873.75	874.27	+50	885.05	885.75
+25	862.00	863.33	+50	874.35	874.78	+75	885.51	886.30
+50	862.36	863.69	+75	874.94	875.28	559+00	885.95	886.83
+75	862.77	864.10	554+00	875.53	875.78	+25	886.39	887.36
549+00	863.22	864.55	+25	876.10	876.35	+50	886.81	887.87
+25	863.72	865.05	+50	876.67	876.92	+75	887.23	888.38
+50	864.26	865.59	+75	877.24	877.49	560+00	887.63	888.86
+75	864.84	866.17	555+00	877.80	878.05	+25	888.03	889.36
550+00	865.47	866.80	+25	878.35	878.60	+50	888.41	889.74
+25	866.12	867.45	+50	878.89	879.14	+75	888.79	890.12
+50	866.77	868.10	+75	879.43	879.68	561+00	889.17	890.50
+75	867.42	868.75	556+00	879.97	880.22	+25	889.55	890.88
551+00	868.07	869.40	+25	880.51	880.76	+50	889.93	891.26
+25	868.72	869.95	+50	881.05	881.30	+75	890.31	891.64
+50	869.37	870.52	+75	881.59	881.84	562+00	890.69	892.02
+75	870.02	871.08	557+00	882.11	882.36	+25	891.07	892.40
552+00	870.66	871.63	+25	882.63	882.88	+50	891.45	892.78
+25	871.29	872.17	+50	883.13	883.37	+75	891.83	893.16
+50	871.91	872.70	+75	883.63	884.06	563+00	892.21	893.54
+75	872.59	873.29	558+00	884.11	884.63	+25	892.59	893.92

STATE ROUTE 32 INTERCHANGE
RAMP "J" DETAIL

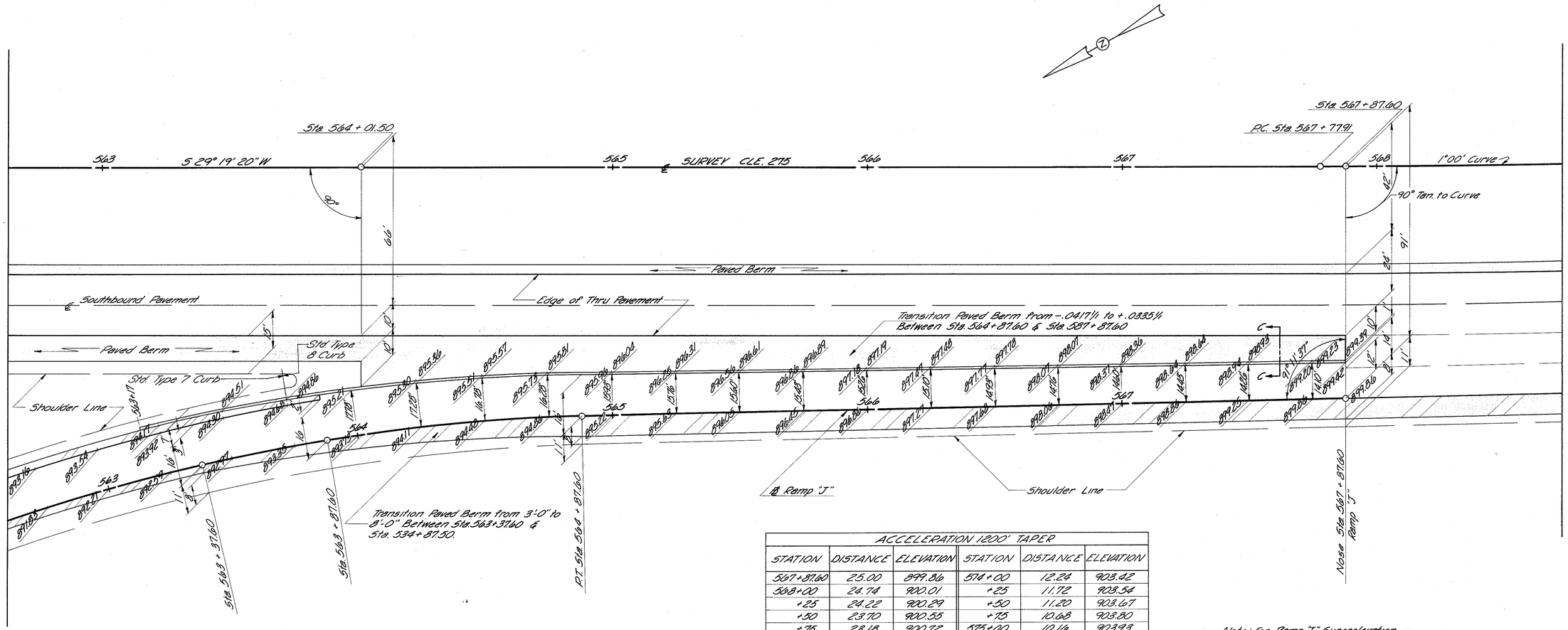
RAMP "J" ENTRANCE TERMINAL

Note: For Section C-C See Sht. No. 16
Scale: 1" = 20'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CLERMONT COUNTY
CLE.-275-6.68

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6.38



RAMP "J"
CURVE DATA
P.I. = Sta 562+19.31
Δ = 45°23'23"
D = 8°00'00"
R = 716.20'
L = 566.83'
T = 300.12'
E = 60.35'
SE = 0.0831

ACCELERATION 1200' TAPER					
STATION	DISTANCE	ELEVATION	STATION	DISTANCE	ELEVATION
567+87.60	25.00	899.86	574+00	12.24	903.42
568+00	24.74	900.01	+25	11.72	903.54
+25	24.22	900.29	+50	11.20	903.67
+50	23.70	900.55	+75	10.68	903.80
+75	23.18	900.72	575+00	10.16	903.93
569+00	22.66	900.85	+25	9.64	904.06
+25	22.14	900.98	+50	9.11	904.19
+50	21.62	901.11	+75	8.60	904.32
+75	21.10	901.24	576+00	8.17	904.44
570+00	20.57	901.37	+25	7.55	904.57
+25	20.05	901.47	+50	7.03	904.70
+50	19.53	901.62	+75	6.51	904.83
+75	19.01	901.75	577+00	5.99	904.96
571+00	18.49	901.88	+25	5.47	905.09
+25	17.97	902.01	+50	4.95	905.21
+50	17.45	902.14	+75	4.43	905.34
+75	16.93	902.26	578+00	3.91	905.47
572+00	16.41	902.34	+25	3.39	905.60
+25	15.88	902.52	+50	2.87	905.73
+50	15.37	902.65	+75	2.35	905.85
+75	14.85	902.78	579+00	1.83	905.98
573+00	14.33	902.90	+25	1.30	906.11
+25	13.80	903.03	+50	0.78	906.24
+50	13.28	903.16	+75	0.26	906.37
+75	12.76	903.29	+87.60	0.00	906.42

Note: For Ramp "J" Superelevation Table See Sheet No. 109

STATE ROUTE 32 INTERCHANGE
RAMP "J" DETAIL

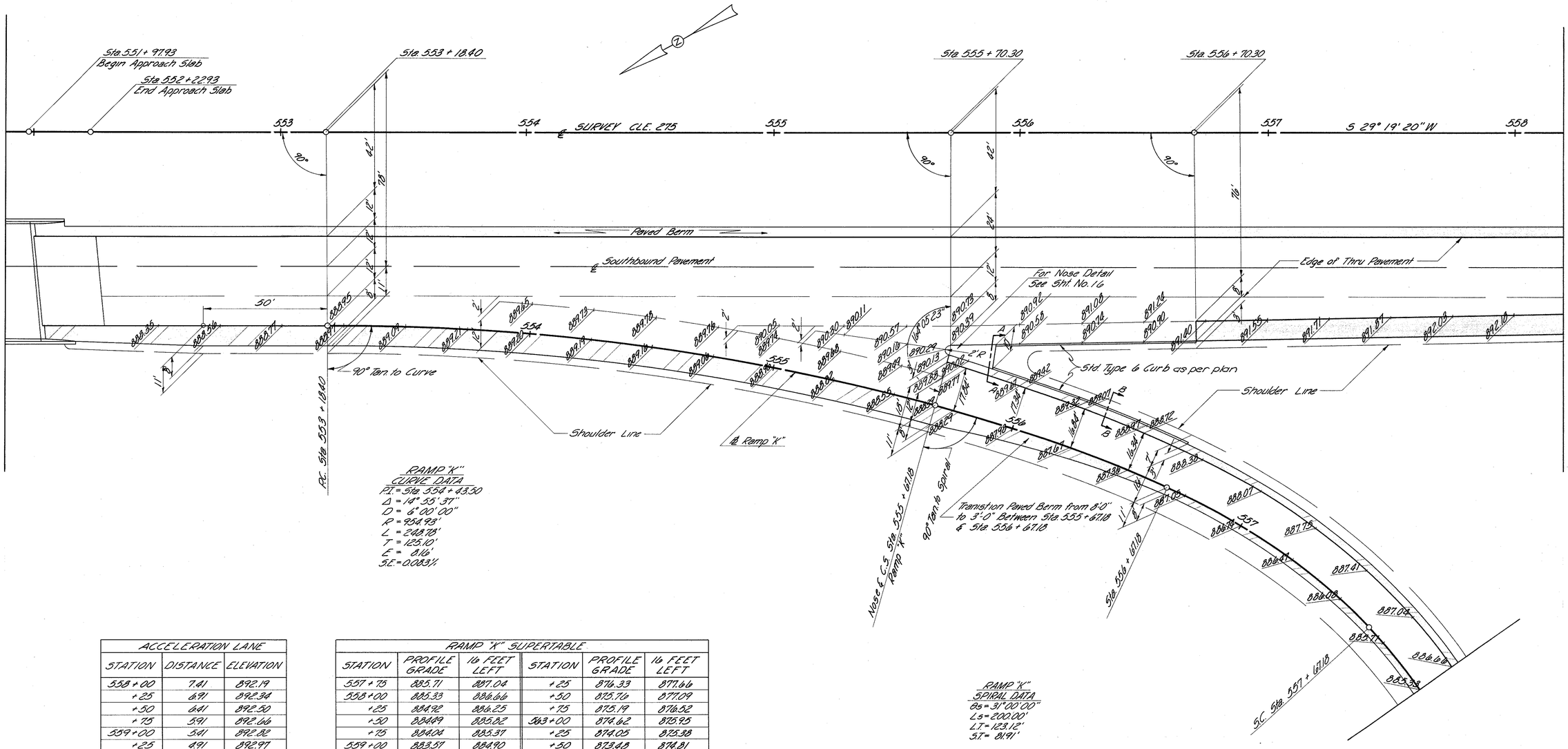
RAMP "K" EXIT TERMINAL

Note: For Sections A-A & B-B See Sht. No. 16
Scale: 1" = 20'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CLERMONT COUNTY
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RAMP "K"
CURVE DATA
P.I. = Sta 554+83.30
Δ = 14° 35' 37"
D = 6° 00' 00"
R = 954.93'
L = 248.78'
T = 125.10'
E = 8.16'
SE = 0.083'/'

RAMP "K"
SPIRAL DATA
θs = 3° 00' 00"
Ls = 200.00'
LT = 123.12'
ST = 81.91'

ACCELERATION LANE

STATION	DISTANCE	ELEVATION
558+00	7.41	892.19
+25	6.91	892.34
+50	6.41	892.50
+75	5.91	892.66
559+00	5.41	892.82
+25	4.91	892.97
+50	4.41	893.13
+75	3.91	893.29
560+00	3.41	893.45
+25	2.91	893.60
+50	2.41	893.76
+75	1.91	893.92
561+00	1.41	894.08
+25	0.91	894.24
+50	0.41	894.40
+70.30	0.00	894.52

RAMP "K" SUPERTABLE

STATION	PROFILE GRADE	16 FEET LEFT	STATION	PROFILE GRADE	16 FEET LEFT
557+75	885.71	887.04	+25	876.33	877.66
558+00	885.33	886.66	+50	875.76	877.09
+25	884.92	886.25	+75	875.19	876.52
+50	884.49	885.82	563+00	874.62	875.95
+75	884.04	885.37	+25	874.05	875.38
559+00	883.57	884.90	+50	873.48	874.81
+25	883.07	884.40	+75	872.91	874.24
+50	882.56	883.89	564+00	872.34	873.67
+75	882.02	883.35	+25	871.77	873.10
560+00	881.46	882.79	+50	871.20	872.53
+25	880.89	882.22	+75	870.63	871.96
+50	880.32	881.65	565+00	870.06	871.39
+75	879.75	881.08	+25	869.52	870.85
561+00	879.18	880.51	+50	869.03	870.36
+25	878.61	879.94	+75	868.61	869.94
+50	878.04	879.37	566+00	868.23	869.56
+75	877.47	878.80	+25	867.92	869.25
562+00	876.90	877.23	+50	867.66	868.99

STATE ROUTE 32 INTERCHANGE
RAMP "K" DETAIL

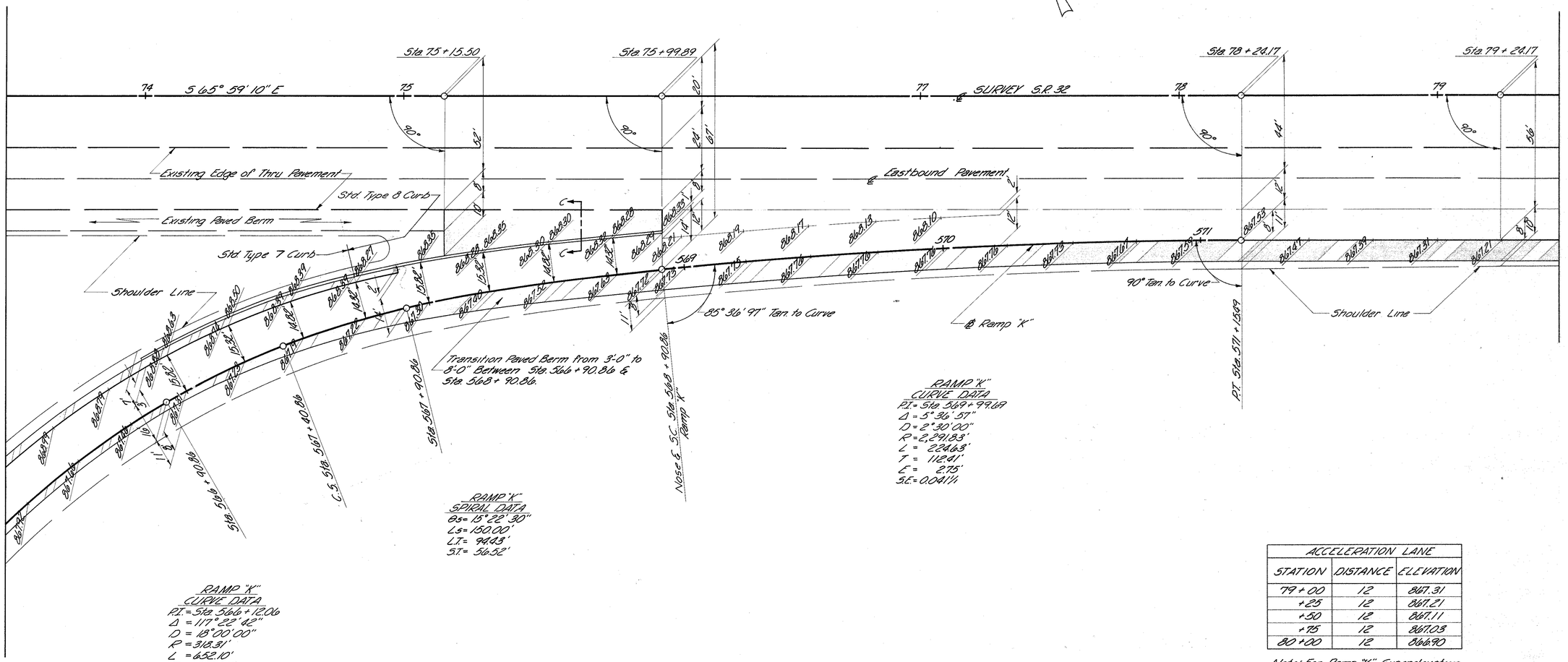
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68

RAMP "K" ENTRANCE TERMINAL

Note: For Section C-C See Sht. No. 16
Scale: 1"=20'-0"



RAMP "K"
CURVE DATA
P.T. = Sta. 569+99.69
Δ = 5° 36' 57"
D = 2° 30' 00"
R = 2,291.83'
L = 228.63'
T = 114.41'
E = 2.75'
S.E. = 0.041%

RAMP "K"
SPIRAL DATA
θs = 1° 22' 30"
Ls = 150.00'
L.T. = 94.03'
S.T. = 56.52'

RAMP "K"
CURVE DATA
P.T. = Sta. 566+12.06
Δ = 117° 22' 42"
D = 18° 00' 00"
R = 318.31'
L = 652.10'
T = 523.30'
E = 294.20'
S.E. = 0.083%

ACCELERATION LANE		
STATION	DISTANCE	ELEVATION
79+00	12	867.31
+25	12	867.21
+50	12	867.11
+75	12	867.03
80+00	12	866.90

Note: For Ramp "K" Superelevation Table See Sheet No. 111

STATE ROUTE 32 INTERCHANGE
RAMP "K" DETAIL

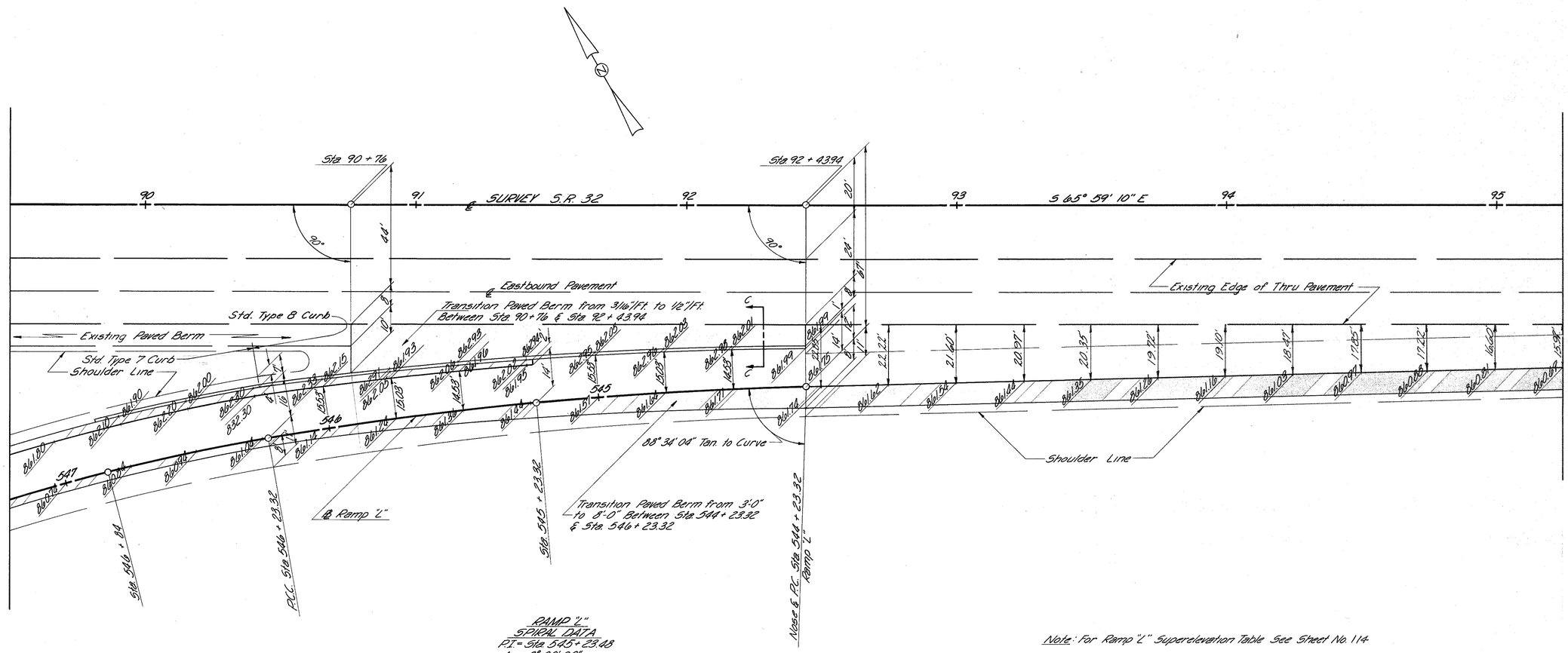
RAMP "L" ENTRANCE TERMINAL

Note: For Section C-C See Sht. No. 16
Scale: 1" = 20'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CLERMONT COUNTY
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RAMP "L"
SPIRAL DATA
P.I. = Sta. 548 + 38.42
Δ = 33° 26' 03"
D = 8° 00' 00"
R = 716.20'
L = 417.93'
T = 215.10'
E = 31.60'

RAMP "L"
SPIRAL DATA
P.I. = Sta. 545 + 23.48
Δ = 8° 00' 00"
D = 4° 00' 00"
R = 1,432.39'
L = 200.00'
T = 100.16'
E = 3.50'

Note: For Ramp "L" Superelevation Table See Sheet No. 114

ACCELERATION 920' TAPER					
STATION	DISTANCE	ELEVATION	STATION	DISTANCE	ELEVATION
95+00	16.60	860.81	+50	7.85	859.52
+25	15.97	860.69	+75	7.22	859.46
+50	15.35	860.64	99+00	6.60	859.35
+75	14.72	860.56	+25	5.97	859.27
96+00	14.10	860.48	+50	5.34	859.22
+25	13.47	860.36	+75	4.72	859.05
+50	12.85	860.28	100+00	4.10	858.93
+75	12.22	860.11	+25	3.47	858.86
97+00	11.60	860.04	+50	2.85	858.83
+25	10.97	859.96	+75	2.22	858.72
+50	10.35	859.87	101+00	1.60	858.60
+75	9.72	859.81	+25	0.97	858.58
98+00	9.10	859.70	+50	0.35	858.44
+25	8.47	859.60	+63.94	0.00	858.38

STATE ROUTE 32 INTERCHANGE
RAMP "L" DETAIL

RAMP "L" EXIT TERMINAL

Note: For Sections D-D See Sht. No. 16
Scale: 1"=20'-0"

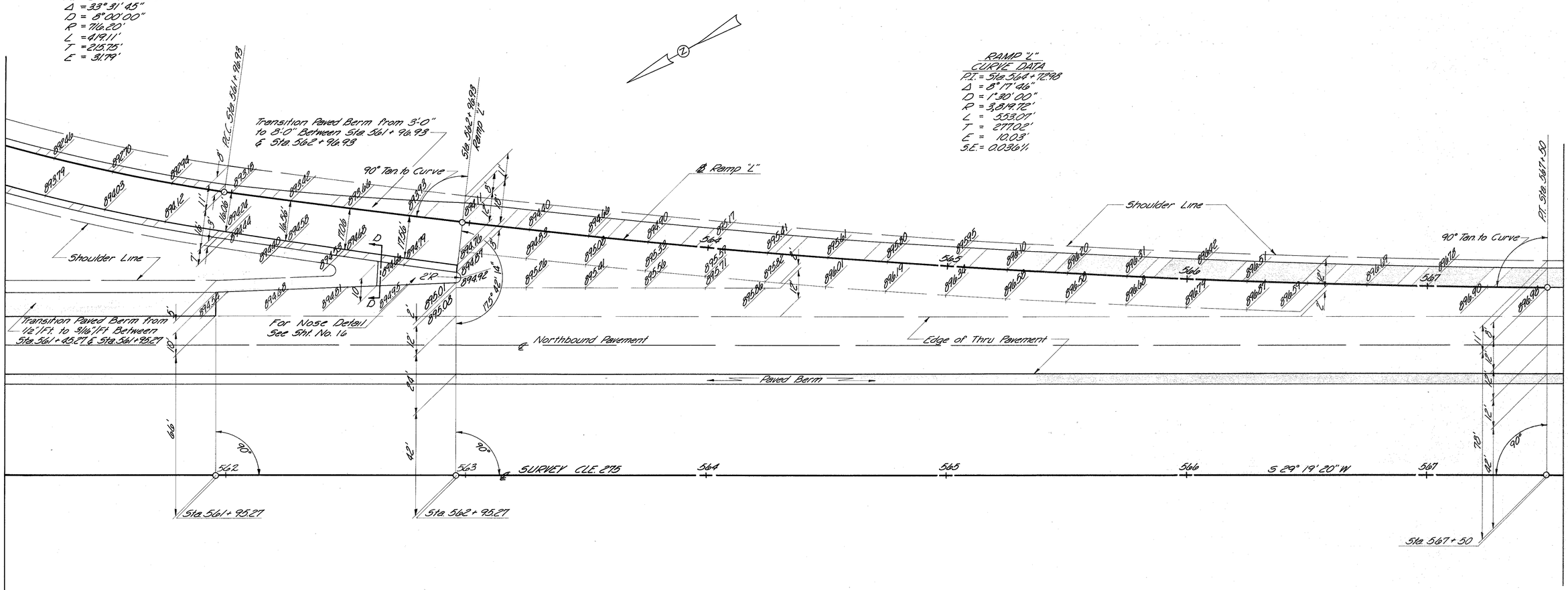
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
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RAMP "L" CURVE DATA
P.I. = Sta. 559+93.57
Δ = 33°31'45"
D = 8°00'00"
R = 716.20'
L = 419.11'
T = 215.75'
E = 31.79'

RAMP "L" CURVE DATA
P.I. = Sta. 564+72.98
Δ = 8°17'46"
D = 1°30'00"
R = 3,819.72'
L = 553.07'
T = 277.02'
E = 10.03'
S.E. = 0.0361



RAMP "L" SUPERTABLE

STATION	PROFILE GRADE	16 FEET RIGHT	STATION	PROFILE GRADE	16 FEET RIGHT	STATION	PROFILE GRADE	16 FEET RIGHT
546+75	860.84	861.90	+75	866.84	867.29	+75	884.43	885.04
547+00	860.74	861.80	552+00	867.74	868.12	557+00	885.15	885.85
+25	860.64	861.70	+25	868.64	868.96	+25	885.84	886.63
+50	860.54	861.60	+50	869.54	869.79	+50	886.48	887.36
+75	860.44	861.50	+75	870.44	870.69	+75	887.10	888.07
548+00	860.37	861.43	553+00	871.34	871.59	558+00	887.69	888.75
+25	860.37	861.43	+25	872.24	872.49	+25	888.24	889.39
+50	860.42	861.48	+50	873.14	873.39	+50	888.76	890.00
+75	860.54	861.60	+75	874.04	874.29	+75	889.26	890.59
549+00	860.72	861.78	554+00	874.94	875.19	559+00	889.71	891.04
+25	860.96	862.02	+25	875.84	876.09	+25	890.13	891.46
+50	861.27	862.33	+50	876.74	876.99	+50	890.52	891.85
+75	861.64	862.63	+75	877.64	877.89	+75	890.87	892.20
550+00	861.07	862.99	555+00	878.54	878.79	560+00	891.19	892.52
+25	862.56	863.41	+25	879.44	879.69	+25	891.48	892.81
+50	863.12	863.91.	+50	880.34	880.59	+50	891.74	893.07
+75	863.74	864.46	+75	881.24	881.49	+75	891.98	893.31
551+00	864.42	865.07	556+00	882.07	882.41	561+00	892.22	893.55
+25	865.17	865.75	+25	882.89	883.82	+25	892.46	893.79
+50	865.97	866.49	+50	883.68	884.20	+50	892.70	894.03

DECELERATION LANE

STATION	DISTANCE	ELEVATION
567+50	12	896.93
+75	12	897.10
568+00	12	897.04
+25	12	897.07
+50	12	897.13
+75	12	897.25
569+00	12	897.40
+25	12	897.55
+50	12	897.70
+75	12	897.85
570+00	11.63	898.01
+25	8.63	898.29
+50	5.63	898.56
+75	2.63	898.44

STATE ROUTE 32 INTERCHANGE
RAMP "L" DETAIL

RAMP "M" ENTRANCE TERMINAL

Note: For Section C-C See Sht. No. 16
Scale: 1"=20'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68

RAMP "M"
CURVE DATA
PT = Sta. 551 + 95.37
Δ = 5° 27' 38"
D = 2° 00' 00"
R = 2,864.79'
L = 273.02'
T = 136.62'
E = 3.26'
SE = 0.033'/'

RAMP "M"
SPIRAL DATA
θs = 20° 15' 00"
Ls = 150.00'
LT = 97.21'
ST = 54.37'

RAMP "M"
CURVE DATA
Δ = 207° 39' 47"
D = 25° 00' 00"
R = 229.18'
L = 830.65'
SE = 0.083'/'

P.I. Sta. 550 + 38.75

90° Tan. to Curve

℄ Northbound Pavement

Shoulder Line

C.S. & Nose Sta. 553 + 31.77 Ramp "M"

90° Tan. to Spiral

Transition Paved Berm from 8'-0" to 3'-0" Between Sta. 553 + 31.77 & Sta. 555 + 31.77

Sta. 554 + 31.77

SC Sta. 554 + 81.77

Sta. 555 + 31.77

℄ Ramp "M"

Std. Type 7 Curb

Std. Type 8 Curb

Std. Type 7 Curb

Shoulder Line

Paved Berm

Edge of Thru Pavement

Paved Berm

Transition Paved Berm from 0.33'/Ft. to 0.417'/Ft. Between Sta. 553 + 31.36 & Sta. 553 + 81.36

Sta 550 + 79.92 CLE. 275 =
Sta. 79 + 12.47 S.R. 32

90°

90°

90°

S 29° 19' 20" W

℄ SURVEY CLE. 275

℄ SURVEY S.R. 32

551

552

553

554

555

556

Sta. 550 + 38.75

Sta. 551 + 97.93
Begin Approach Slab

Sta. 552 + 22.93
End Approach Slab

Sta. 553 + 31.36

Sta. 554 + 15.74

RAMP "M" SUPERTABLE

STATION	PROFILE GRADE	16 FEET RIGHT	STATION	PROFILE GRADE	16 FEET RIGHT
555+50	886.05	887.38	+25	874.31	875.64
+75	885.53	886.88		873.40	874.73
556+00	883.99	885.32		872.49	873.82
+25	884.39	885.72	560+00	871.58	872.91
+50	883.73	885.06	+25	870.67	872.00
+75	883.04	884.37	+50	869.76	871.09
557+00	882.29	883.62	+75	868.85	870.18
+25	881.50	882.83	561+00	867.94	869.27
+50	880.66	881.99	+25	867.03	868.36
+75	879.77	881.10	+50	866.17	867.50
558+00	878.86	880.19	+75	865.41	866.74
+25	877.95	879.28	562+00	864.76	866.09
+50	877.04	878.37	+25	864.20	865.53
+75	876.13	877.46	+50	863.75	865.08
559+00	875.22	876.55	+75	863.40	864.73

STATE ROUTE 32 INTERCHANGE
RAMP "M" DETAIL

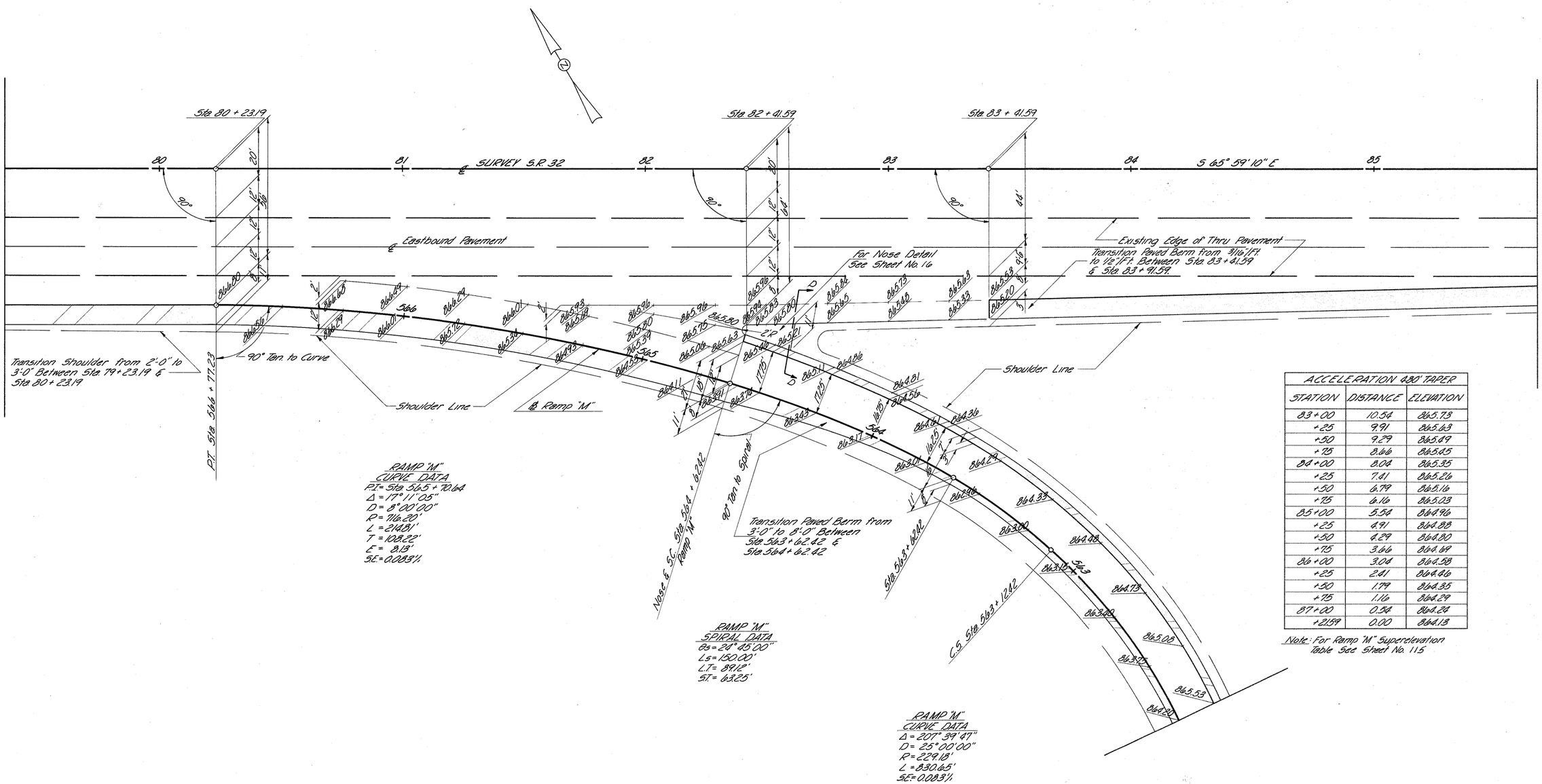
RAMP "M" EXIT TERMINAL

Note: For Section D-D See Sht. No. 16
Scale: 1" = 20'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68



RAMP "M"
CURVE DATA
PI = Sta 565 + 70.64
Δ = 17° 11' 05"
D = 8° 00' 00"
R = 716.20'
L = 214.91'
T = 108.22'
E = 8.13'
SE = 0.083'/'

RAMP "M"
SPIRAL DATA
θs = 2° 45' 00"
Ls = 150.00'
LT = 89.12'
ST = 63.25'

RAMP "M"
CURVE DATA
Δ = 207° 39' 47"
D = 25° 00' 00"
R = 229.18'
L = 830.85'
SE = 0.083'/'

ACCELERATION 480' TAPER

STATION	DISTANCE	ELEVATION
83+00	10.54	865.73
+25	9.91	865.63
+50	9.29	865.69
+75	8.66	865.45
84+00	8.04	865.35
+25	7.41	865.26
+50	6.79	865.16
+75	6.16	865.03
85+00	5.54	864.96
+25	4.91	864.83
+50	4.29	864.80
+75	3.66	864.69
86+00	3.04	864.58
+25	2.41	864.46
+50	1.79	864.35
+75	1.16	864.29
87+00	0.54	864.20
+21.59	0.00	864.13

Note: For Ramp "M" Superelevation Table See Sheet No. 115

STATE ROUTE 32 INTERCHANGE
RAMP "M" DETAIL

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
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Sta. 12+00
Meet Existing Pavement & Shoulder
End Work

STATION	P.G.	LT. EDGE	RT. EDGE
32+00	871.15	871.21	871.09
+25	871.00	871.00	871.00
+50	870.85	870.79	870.91
+75	870.72	870.59	870.85
33+00	870.61	870.44	870.78
+25	870.54	870.35	870.73

PT. Sta. 11+52.57

P.C.C. Sta. 11+37.01, 12' Lt.
P.T. Sta. 0+32.82, 6' Rt.
R=25'
Δ=74°38'
R=25'
Δ=110°43'
P.I. Sta. 0+41.5
Sta. 0+46 Drive
End Work
P.T. Sta. 0+32.82, 6' Lt.
P.C.C. Sta. 10+94.11, 12' Lt.
R=25'
Δ=87°04'33"
Provide Mail Box Approach for
2 Mail Boxes
P.T. Sta. 0+36.85, 7' Rt.
P.I. Sta. 0+62
R=30'
Δ=25°46'
Sta. 0+80 Drive
End Work
P.T. Sta. 0+27, 7' Lt.
P.C. Sta. 0+42, 12' Lt.
P.T. Sta. 0+41.31, 12' Lt.
P.R.C. Sta. 30+39.86, 12' Lt.
P.R.C. Sta. 29+93.16, 12' Lt.
R=25'
Δ=68°53'
P.I. Sta. 0+22
P.T. Sta. 0+27.23, 5' Rt.
Sta. 0+42.61 Drive
End Work
P.T. Sta. 0+42.61, 5' Lt.
R=25'
Δ=93°02'
P.C. Sta. 29+43.20, 12' Lt.

AICHOLTZ ROAD

Sta. 11+15.56 Aicholtz Rd. Conn.=
Sta. 0+00 Drive

P.C. Sta. 10+90.03

Sta. 10+64 Aicholtz Rd. Conn.=
Sta. 0+00 Drive

P.T. Sta. 10+60.40, 12' Rt.

P.R.C. Sta. 31+25.04, 12' Lt.

R=60'
Δ=110°43'

RELOCATED AICHOLTZ ROAD

P.T. Sta. 31+87.45

Sta. 30+76.00 Relocated Aicholtz Rd.=
Sta. 10+00.00 Aicholtz Rd. Connection

R=35'
Δ=16°12'

Provide Mail Box Approach
for 4 Mail Boxes

Sta. 29+71 Relocated Aicholtz Rd.=
Sta. 0+00 Drive

P.C. Sta. 29+30.50

MELCREST ROAD

Sta. 29+05.50 Meet Existing
Pavement & Shoulder

Sta. 28+42.00
Begin Work

① CURVE DATA
P.I. STA. 31+03.50
Δ = 98°08'48" Rt.
R = 150.00'
D_c = 38°11'50"
T = 173.00'
L_c = 256.95'
E = 78.98'

② CURVE DATA
P.I. STA. 11+23.00
Δ = 44°47'33" Lt.
R = 80.00'
D_c = 71°37'11"
T = 32.97'
L_c = 62.54'
E = 6.27'

Scale: 1" = 20'-0"
INTERSECTION DETAIL
RELOCATED AICHOLTZ & EXISTING
AICHOLTZ ROADS

Sta. 105+94.13, 12' Lt.
End Taper
Sta. 105+44.13, 20' Lt.
Begin Taper
Sta. 107+80.81, 8' Lt.
Begin Taper
Sta. 106+40 S.R. 32
Sta. 49+60.72 Relocated Aicholtz Rd.
Sta. 107+05.81, 8' Lt.
SURVEY S.R. 32
Sta. 105+84.65, 8' Rt.
106
107
Sta. 106+96.33, 12' Rt.
83°57'37"
Sta. 105+34.65, 20' Rt.
Begin Taper
Sta. 107+46.33, 20' Rt.
End Taper
Shoulder Line
P.T. Sta. 105+78.57
R=60'
Δ=85°57'13"
P.C. Sta. 48+63.73, 12' Lt.
P.T. Sta. 107+23.44, 12' Rt.
R=60'
Δ=96°02'23"
P.C. Sta. 48+48.52, 12' Rt.
AICHOLTZ ROAD
RELOCATED
48

DECELERATION LANE		
STATION	DISTANCE	ELEVATION
107+05.81	12'	854.81
+25	12'	854.63
+50	12'	854.44
+75	12'	854.26
+80.81	12'	854.18
108+00	11.08'	854.06
+25	9.83'	853.89
+50	8.68'	853.70
+75	7.48'	853.53
109+00	6.28'	853.36
+25	5.08'	853.19
+50	3.88'	852.98
+75	2.68'	852.80
110+00	1.48'	852.63
+25	.28'	852.41
+30.81	0.00'	852.40

JOINT LEGEND
① Standard Longitudinal Key Joint Without Tie Bars
② Expansion Joint Without Dowels
③ Standard Longitudinal Expansion Bolt Joint with Hook Bolt

Scale: 1" = 20'-0"
INTERSECTION DETAIL
STATE ROUTE 32 & RELOCATED AICHOLTZ ROAD

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

540

586.52
350+50
568.9

MATCH LINE C

Sta 350+50
End 60'
Channel Protection
Rock

100%

560

MATCH LINE C

524.5

46.0%

140 160 140

G.P.

24

MATCH LINE B

560 MATCH LINE B 550 540

46.0%

140 160 180 541.5 200

46.0%

Sta. 349+90, 200' Rt.
Begin 4' Bottom Special Ditch
Begin 60' Rock Channel
Protection 8' x 2'

540

585.86
350+00
566.5

540

589.60
349+50
564.7

Match Line A

540

Match Line A

140 160

STA. 349+90
BEGIN WORK

End Area		Volume	
Cut	Fill	Cut	Fill
14	0		
		28	0
16	0		
		15	0
0	0		

CALC. TEK DATE 10/21/69

CHK'D RJR DATE 10/23/69

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 349+50 ~ STA. 350+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE-275 - 6.68

End Area		Volume	
Cut	Fill	Cut	Fill
1260	3		
		1186	693
21	745		
0	669		
		10	619
		202	
11	0		
		20	0	
11	0		
		23	0

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

580

570

560

560

Sta. 352 + 50 Lt.
End 667 Jute Matting 11'-0" Wide

By Others

By Others

G.P.

3:1

590.36
352+50
595.3

By Others

By Others

Ahead
Back
G.P.

3:1

4:1

Ahead
Back

Sta. 351 + 78 Lt.
Begin 4' Bottom Ditch
Begin 667 Jute Matting 11'-0" Wide

A

A

Sta. 351+78 Bottom of Intercepting Ditch

576.0

40%

SECTION A-A

3:1

$\left(\frac{22'+4}{2}\right)$ 210 × 2 = 202 Cu Yds.
27

589.44
352+00
584.1

G.P.

Sta. 351+78
Intercepting Ditch

Sta. 351+83
End 601 R.C.P. 8'x2'

573.5

80%

588.44
351+50
576.6

Sta 351+50
Begin 601 Rock
Channel Protection 8'x2'

G.P.

2:1

12:1

MATCH LINE A

587.48
351+00
571.4

MATCH LINE A

80%

100%

CALC. TEK DATE 10/21/69

CHK'D R.J.R. DATE 10/23/69

STA. 351+00 ~ STA. 352+50

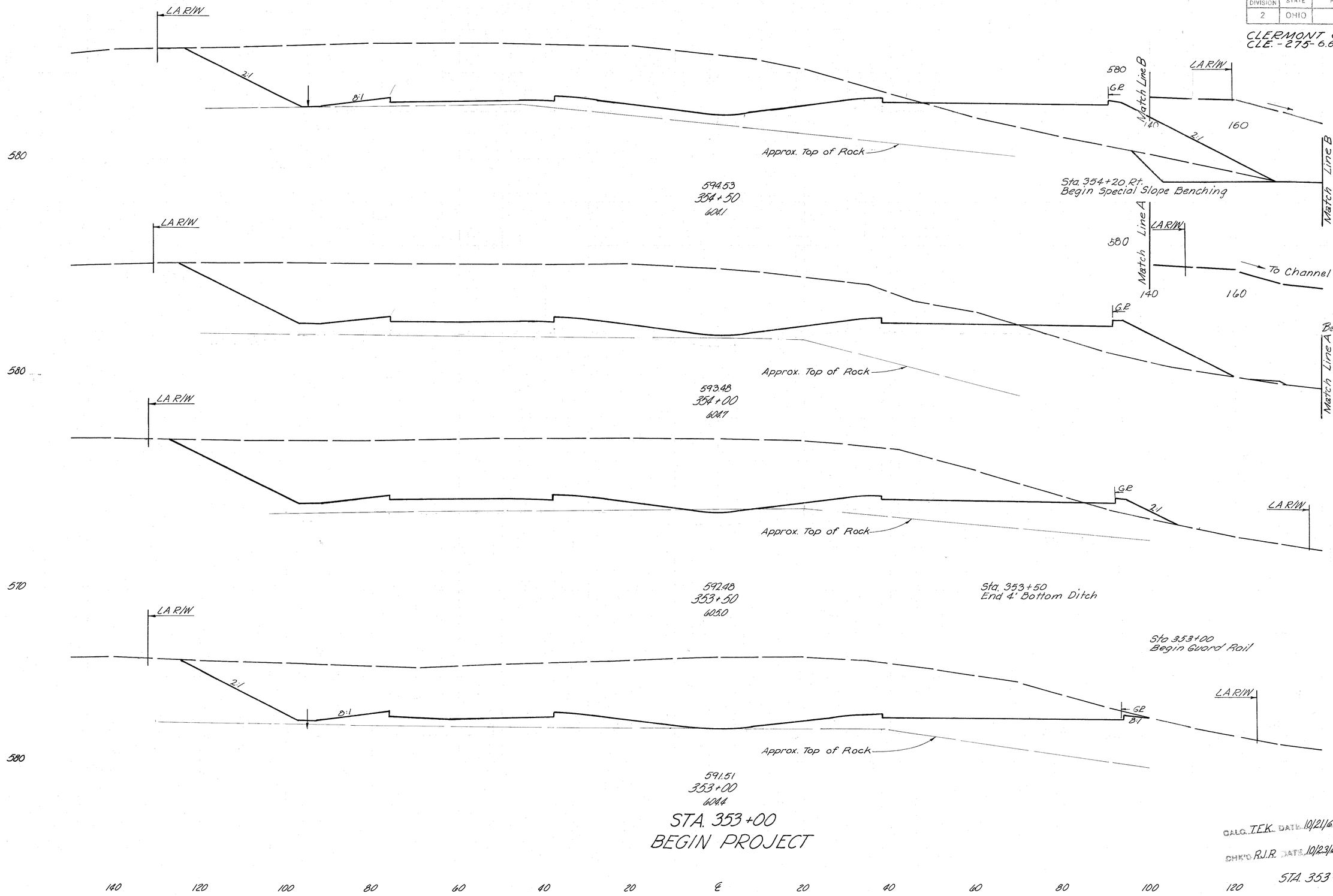
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140 160

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
1923	546		
		3734	700
Benching	0	0	
2110	210		
		4259	227
2190	35		
		4534	32
2472	0		
		3455	3

STA. 353+00
BEGIN PROJECT

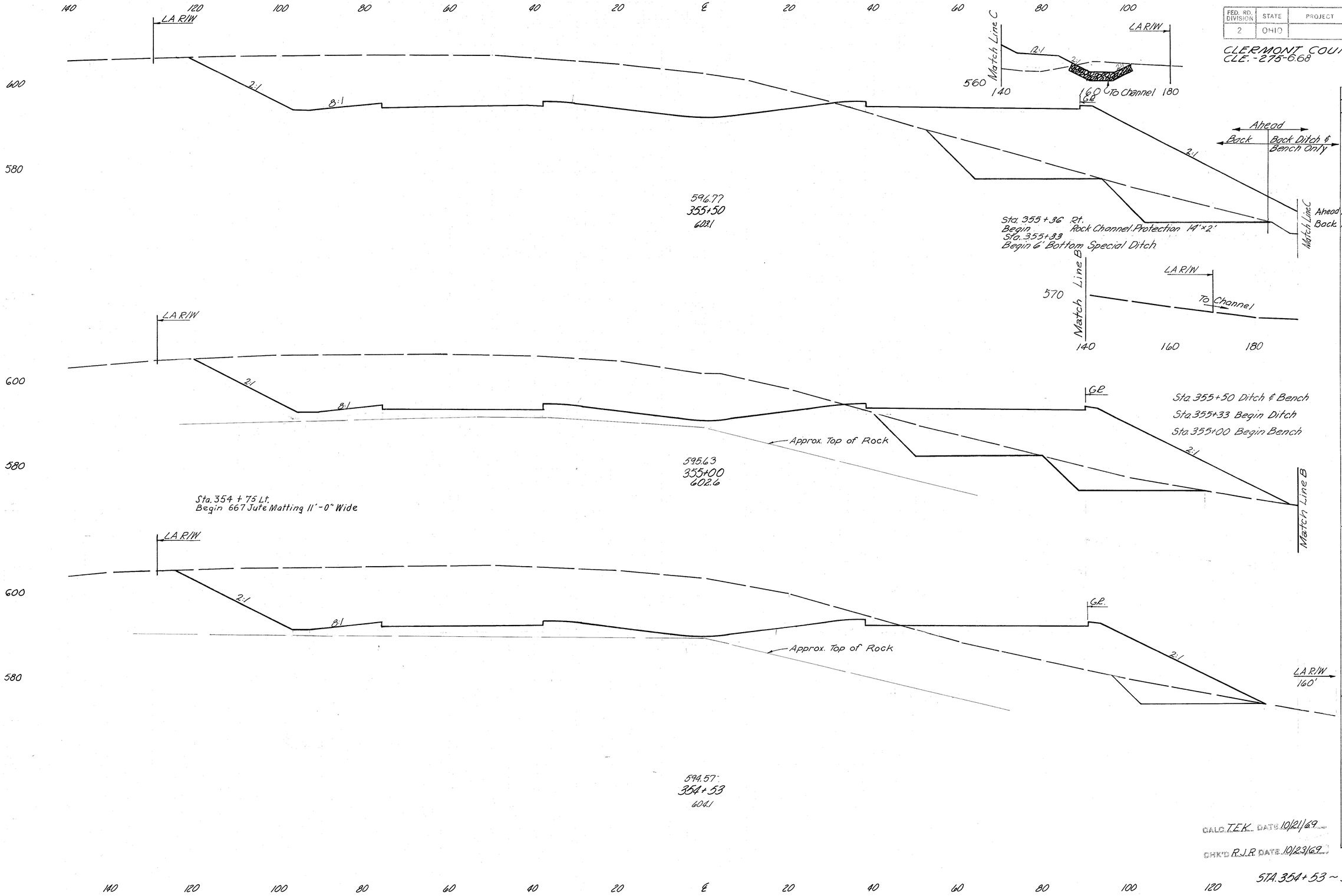
CALC. TEK. DATE 10/21/69
CHK'D R.J.R. DATE 10/23/69

STA. 353+00 ~ STA. 354+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68



	End Area		Volume	
	Cut	Fill	Cut	Fill
Ahead	1795	1389		
Back	1773	1295		
	9	27		
Sta. 355+50 Ditch & Bench			3	8
	0	0		
Sta. 355+33 Begin Ditch			8	25
Sta. 355+00 Begin Bench	0	0		
			3327	1896
	1820	753		
			3287	1192
	1256	617		
			215	62

CALC. T.E.K. DATE 10/21/69

CHK'D R.J.R. DATE 10/23/69

STA. 354+53 ~ STA. 355+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68

140 LA R/W 120 100 80 60 40 20 ℄ 20 40 60 80 100

580

2:1 8:1

600.96
357+00
593.0

G.P. 2:1 570 140 160 12:1 Match Line D

Match Line D: 0:1, 2:1, LA R/W

580

LA R/W

Sta. 356+75
End Special Slope Benching

599.18
356+50
602.7

G.P. 570 140 160 Match Line C

To Channel LA R/W

580

LA R/W

Sta. 356+05
End 6' Bottom Special Ditch
End 60' Rock Channel
Protection 14'x 2'

59795
356+00
605.2

G.P. 570 140 160 Match Line B

Match Line B: 4:1, LA R/W, 30%, 566.0

580

LA R/W

2:1 8:1

59700
355+60
603.1

G.P. 570 140 160 2:1 Match Line A

Match Line A: LA R/W, 30%, 564.5

End Area		Volume	
Cut	Fill	Cut	Fill
795	1312		
		1350	3517
1311	1886		
		2930	3226
1853	1683		
		2830	2026
1927	1153		
		659	471

CALC. T.E.K. DATE 10/21/69

CHK'D R.J.R. DATE 10/23/69

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 355+60 ~ STA. 357+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

123
6.68

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

610
590

L A R/W
4:1
8:1
606.01
359+00
588.3
G.P.
2:1
12:1
Match Line D
L A R/W
183'
4:1
580
140
160

610
590

L A R/W
3:1
8:1
604.55
358+50
583.9
G.P.
2:1
12:1
Match Line C
L A R/W
182'
2:1
580
140
160

610
590

L A R/W
Sta. 358+00 Lt.
End 667 Jute Matting 11:0" Wide
Sta 358+00 Rt.
Begin 6 Bottom Special Ditch
Rock Channel Protection 14'x 2'
Begin 601
603.14
358+00
583.8
G.P.
2:1
12:1
Match Line B
Match Line B
L A R/W
182'
2:1
570
140
160

610
590

L A R/W
3:1
8:1
601.78
357+50
589.4
G.P.
2:1
12:1
Match Line A
Match Line A
L A R/W
181'
2:1
570
140
160

End Area		Volume	
Cut	Fill	Cut	Fill
338	3225		
		602	6038
312	3290		
		557	6025
290	3260		
		743	5852
512	2530		
		1210	4113

CALC. T.E.K. DATE 10/21/69
CHK'D R.J.R. DATE 10/23/69

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 357+50 – STA. 359+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68

STA. 345+00 - STA. 360+00		
Excavation	37,390	C.Y.
Embankment	48,128	C.Y.

Median Outlet Channel
Typical Section

2% 2%
Regraded Ground
$\frac{(8+2)}{2} 12 \times 9 = 2$ Cu. Yds
27
Embankment to Deduct

Sta. 360+05 Rt.
End 601, Dumped Rock Channel Protection 14'x1'-6"

End Area		Volume	
Cut	Fill	Cut	Fill
275	3030		
			-2
743	5270		
526	8002		
		800	6377

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA R/W
6:1
8:1
Sta. 360+00 ℄
604 Std. No. 4 C.B.
ft. Grate = 604.50
Inv. 18" = 601.58
G.P.
Std. Conc. Collar
18"x 25° Bend
Sta. 360+00, 125' Rt.
HW-E Endwall
Inv. 18" = 586.25
603-88' x 18" Conduit Type "B", Cl. B Bedding @ 3.0%
12:1
Match Line B
LA R/W
603-40' x 18" Conduit Type "F"
707.04
580
609.00
360+00
395.1

Match Line B
2:1
1.5%
2:1
580
582.50
3.0%
130 150 170 190
203 Embankment Deducted For Median Outlet Channel
601, Dumped Rock Channel Protection 12' x 6' x 2' 5 Cu. Yds.

LA R/W
188'
3.0%
2:1
2:1
580
Match Line A
5810
130 150

LA R/W
5:1
8:1
G.P.
2:1
12:1
Match Line A
580
607.50
359+50
596.7

CALC. T.E.K. DATE 10/21/69
CHK'D R.J.R. DATE 10/23/69

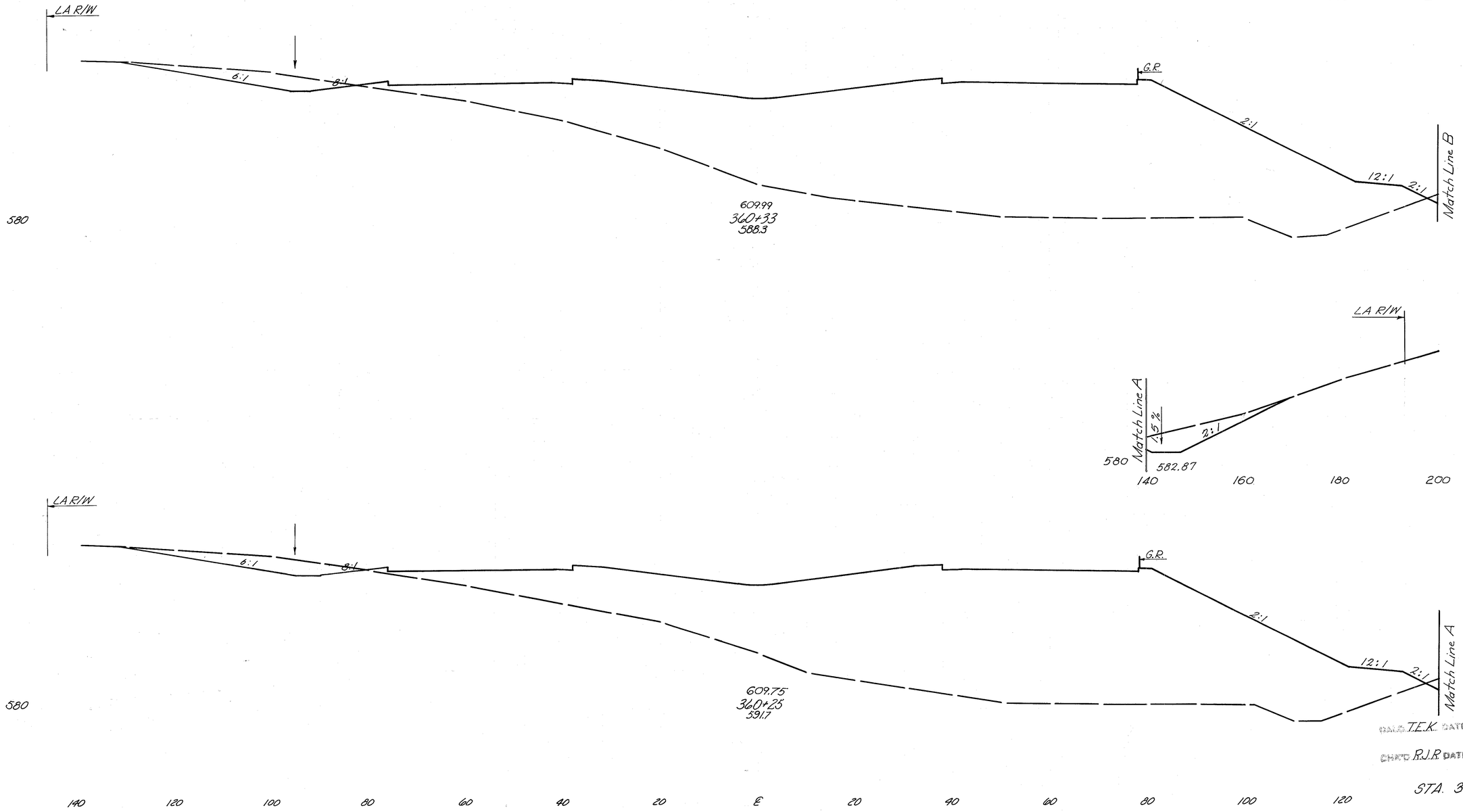
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 359+50 ~ STA. 360+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

125
238

CLERMONT COUNTY
CLE.-275-6.68



END AREA		VOLUME	
CUT	FILL	CUT	FILL
158	3624		
43	909		
172	3390		
207	2972		

DRAWN T.E.K. DATE 10/21/69

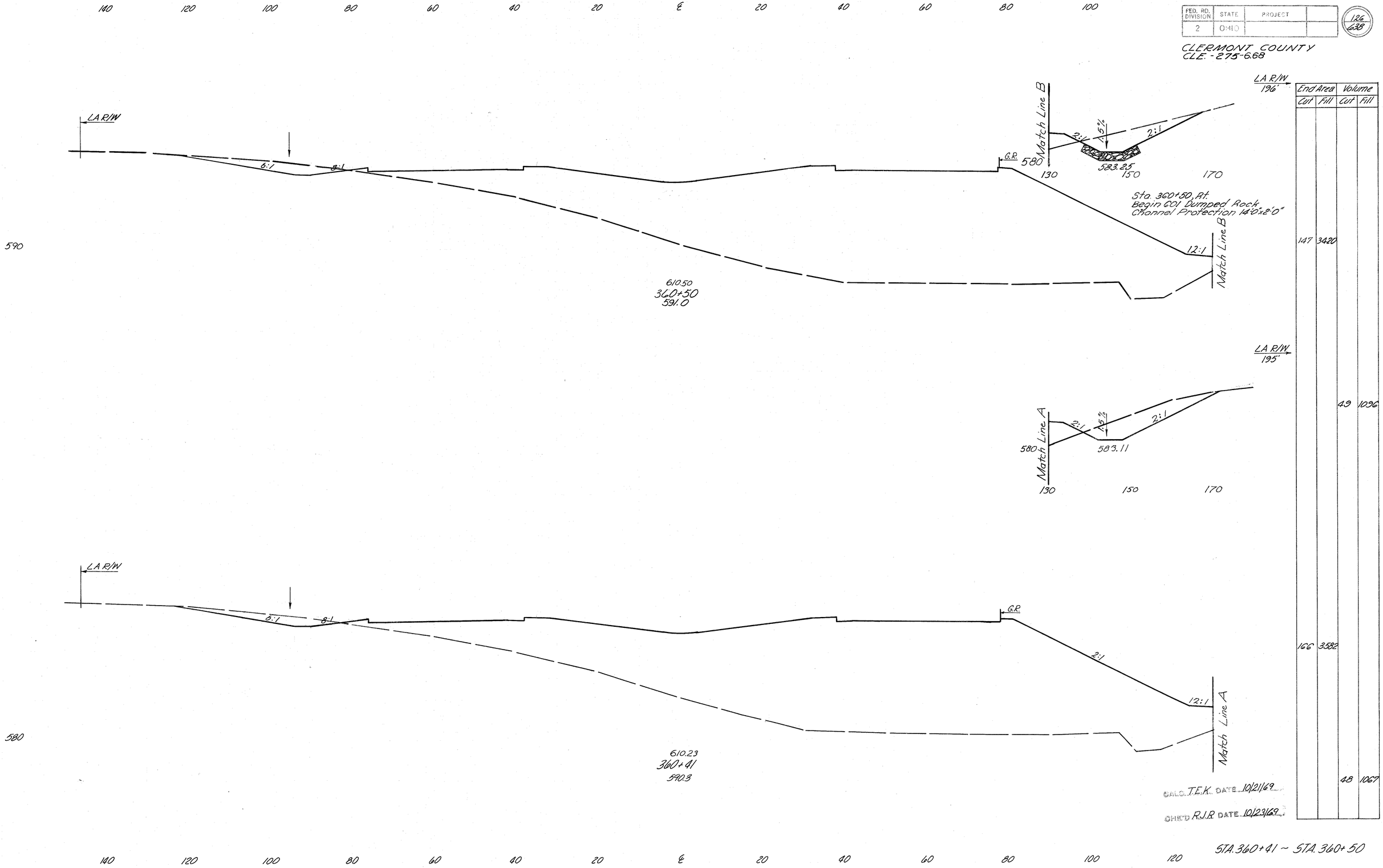
CHK'D R.J.R. DATE 10/23/69

STA. 360+25 – STA. 360+33

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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628

CLERMONT COUNTY
CLE.-275-6.68



	End Area		Volume	
	Cut	Fill	Cut	Fill
LA R/W 196'				
	147	3420		
			49	1096
LA R/W 195'				
	166	3582		
			48	1067

CALC. T.E.K. DATE 10/21/69

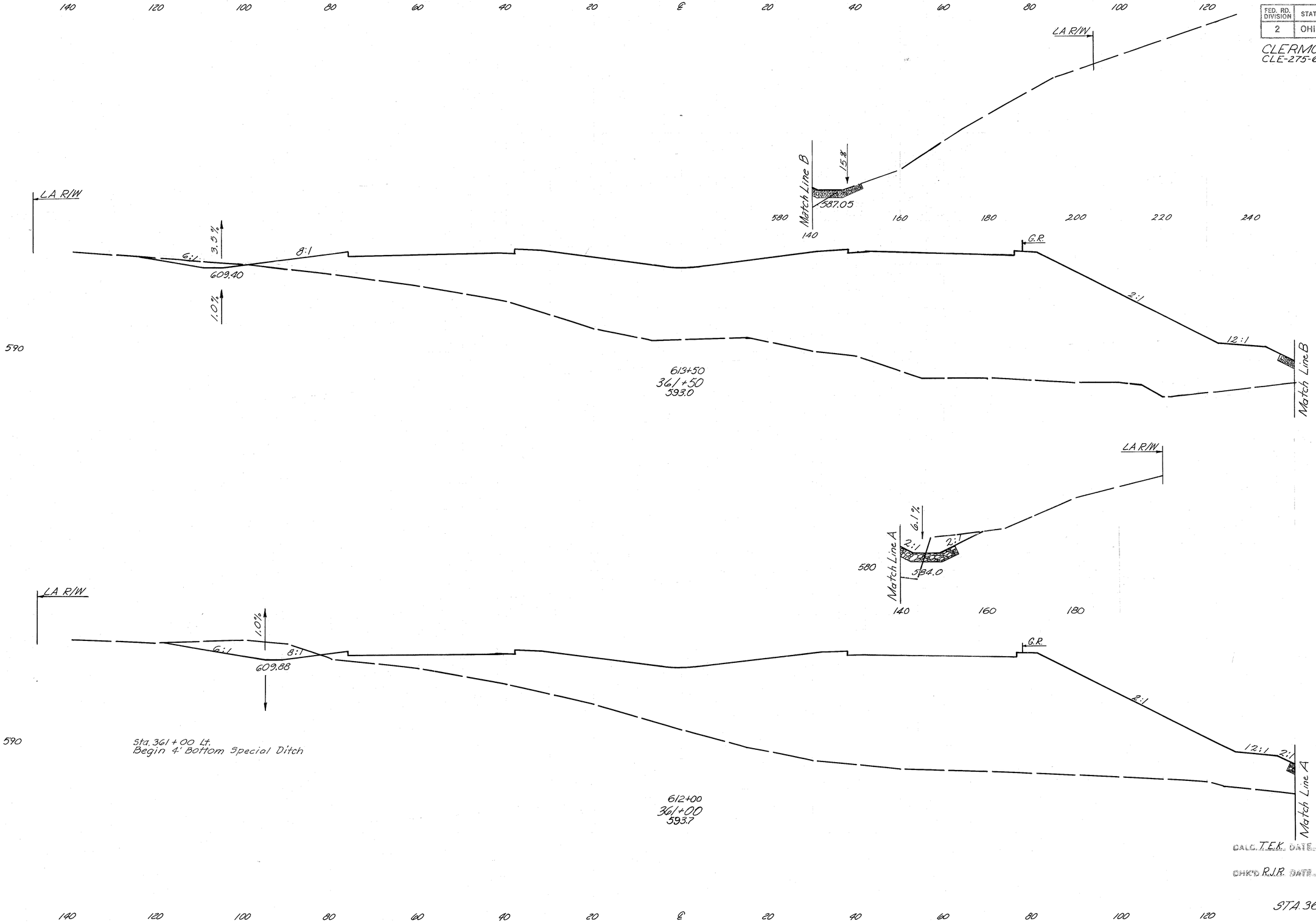
CHK'D R.J.R DATE 10/23/69

STA. 360+41 ~ STA. 360+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE-275-6.68



END AREA		VOLUME	
CUT	FILL	CUT	FILL
322	387.3		
			405 G'887
115	345.7		
			243 G'367

CALC. T.E.K. DATE 10/21/69

CHK'D R.J.R. DATE 10/23/69

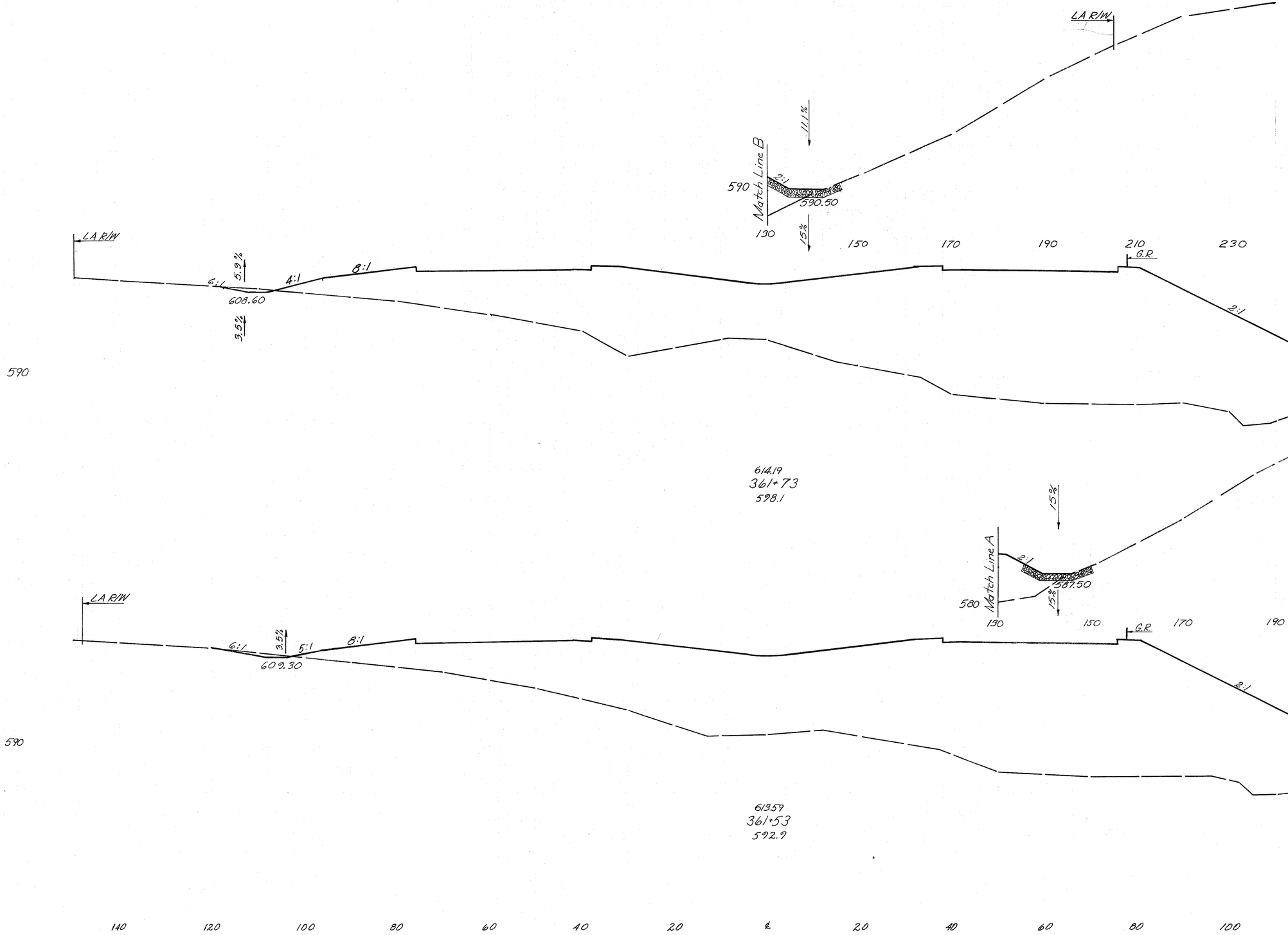
STA. 361+00 – STA. 361+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
7	4056		
		5	3001
7	4015		
		18	439

CALC. T.E.K. DATE 10/21/69

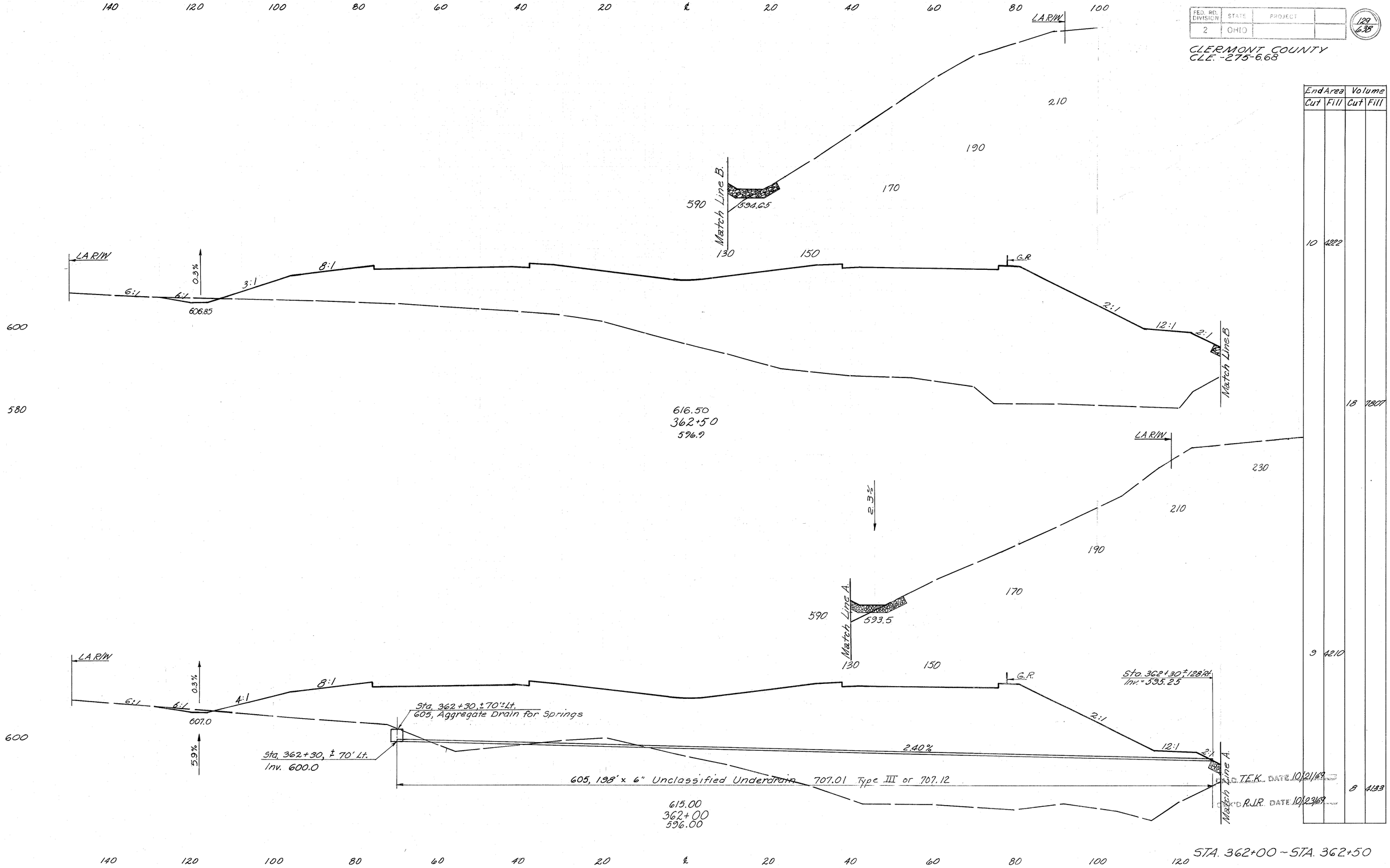
CHK'D R.J.R. DATE 10/21/69

STA. 361+53 ~ STA. 361+73

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
10	4222		
		18	7807
9	4210		
		8	4133

C.C.T.E.K. DATE 10/21/69
CK'D R.J.R. DATE 10/23/69

STA. 362+00 ~ STA. 362+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

130
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CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA R/W

2:1

Match Line B

590 594.80

130

0.3%

210 190 170

230

LA R/W

3:1 8:1

G.R.

2:1 12:1

Match Line B

580

Outlet Channel
Typical Section
Sta. 362+80

$\frac{58' \times 1' \times 6'}{27}$ = 14 Cu. Yds.

618.00
363+00
596.2

Sta. 362+80
Outlet Channel Lt.

Match Line A

2:1

590 594.70

130

150 170 190 210 230

LA R/W

0.3%

6:1

606.80

3:1 8:1

G.R.

2:1 12:1 2:1

Match Line A

580

Sta. 362+85 180' Lt. Elev. 606.56
End 4' Bottom Special Ditch
Sta. 362+75
Begin Ramp "V" Taper
Begin Shoulder Transition

617.01
362+67
596.1

End Area		Volume	
Cut	Fill	Cut	Fill
365	3949		
		237	4996

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE.-275-G.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA R/W
3:1 8:1
590
G20.25
363+75
603.3
G.R.
2:1
12:1
Match Line B
LA R/W
2:1
590 Match Line B
595.02
130
170
190
210

End Area		Volume	
Cut	Fill	Cut	Fill
135	3479		
250	3411		

LA R/W
3:1 8:1
590
G19.50
363+50
599.0
G.R.
2:1
12:1
Match Line A
0.3%
2:1
2:1
590 Match Line A
594.95
130
170
190
210

405	3887		
713	7257		

CALC. T.E.K. DATE 10/22/69
CHK'D R.J.R. DATE 10/23/69

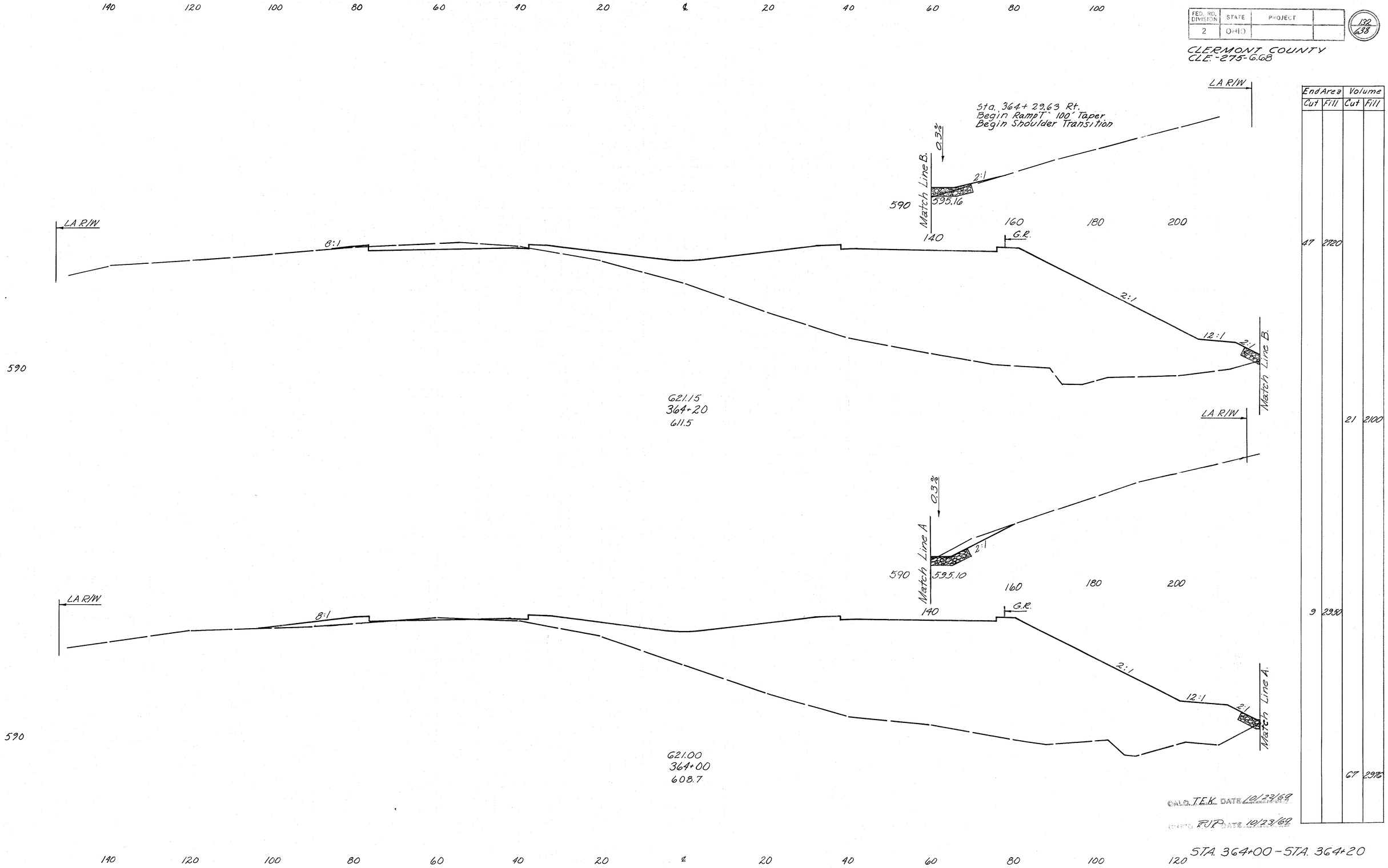
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 363+50 ~ STA. 363+75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
47	2720		
		21	2100
9	2930		
		67	2976

CALC. T.E.K. DATE 10/23/68

CHKD. RJP DATE 10/23/68

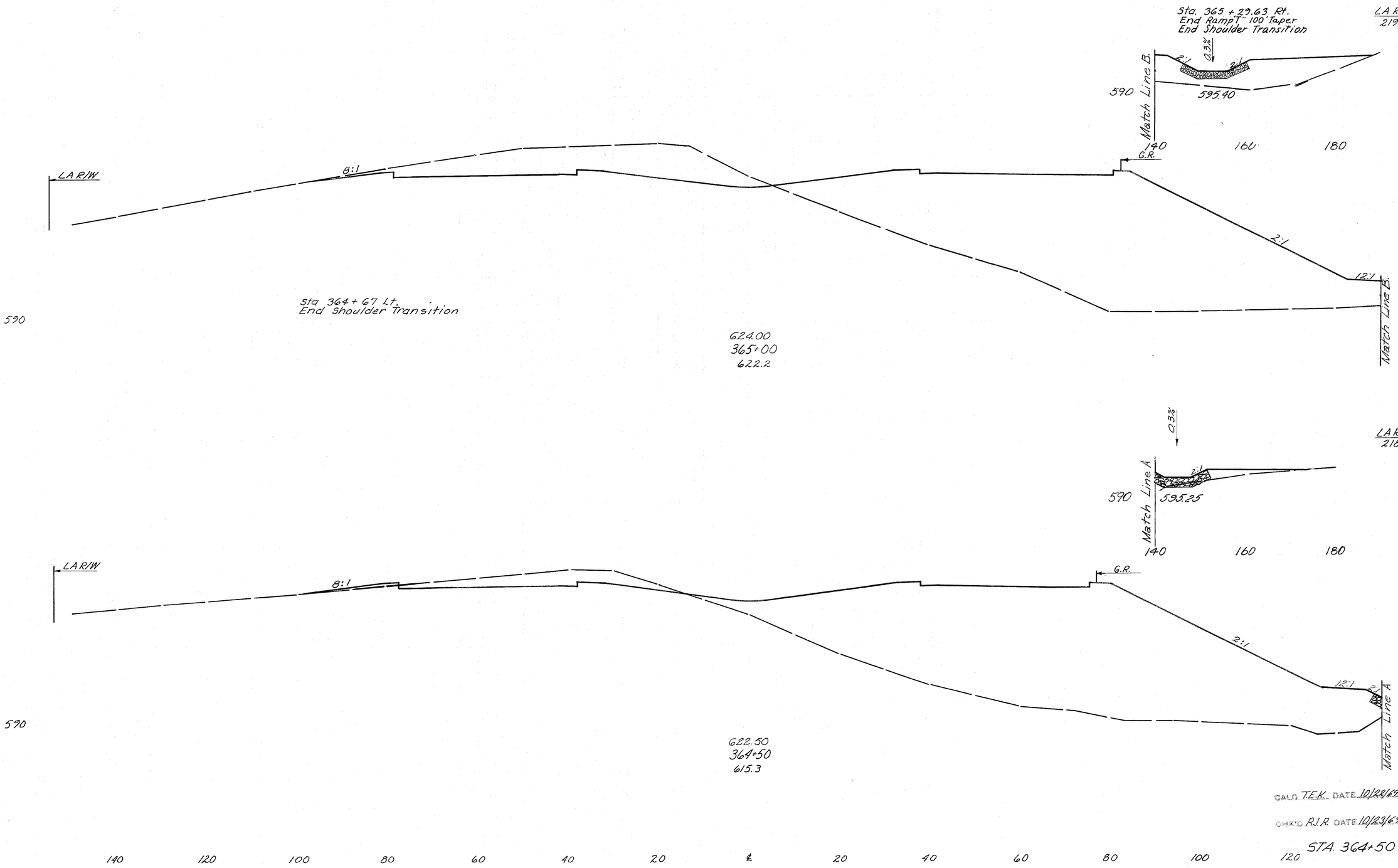
STA. 364+00 - STA. 364+20

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

133
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

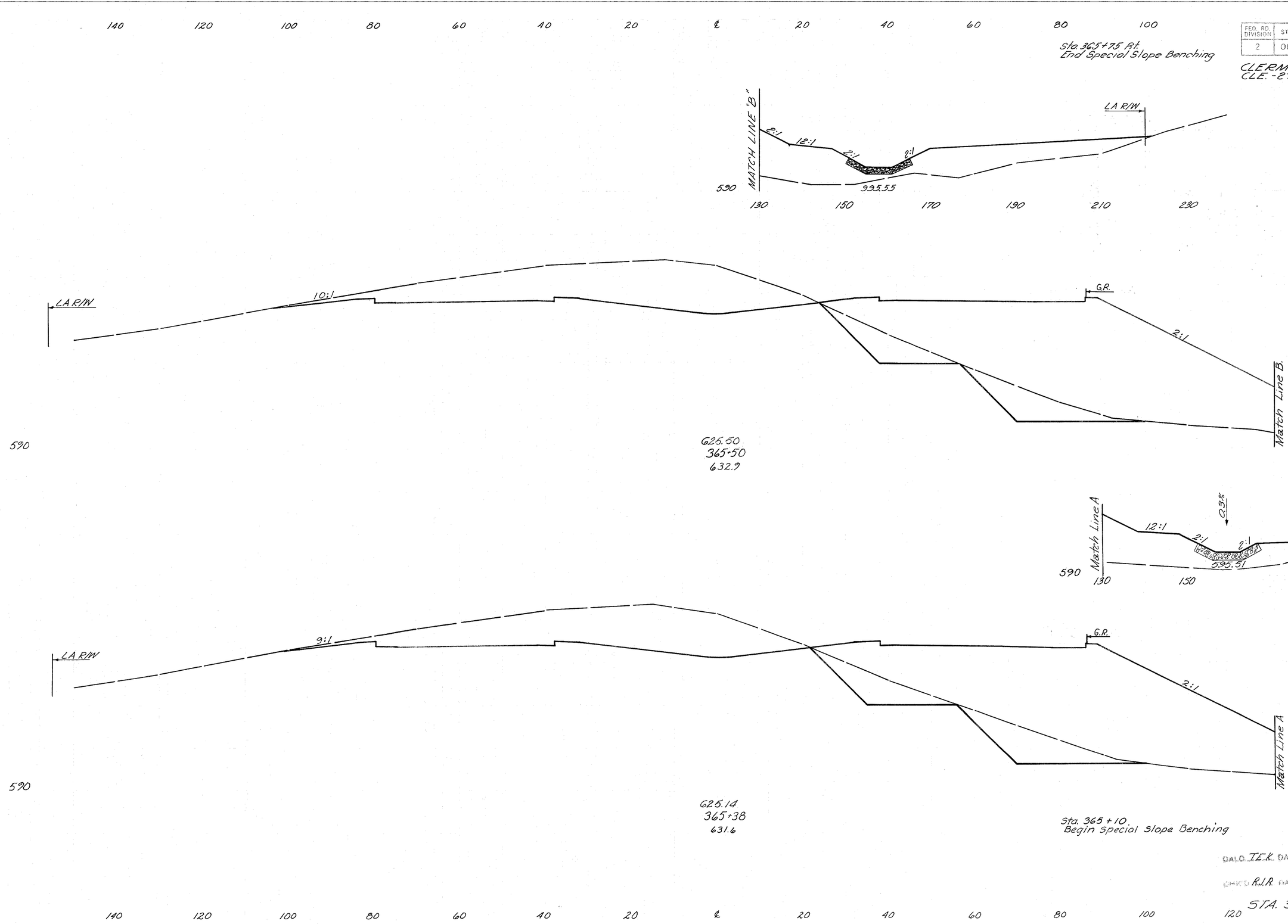


End Area		Volume	
Cut	Fill	Cut	Fill
438	2518		

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68



	End Area Cut	End Area Fill	Volume Cut	Volume Fill
Sta 365+75 Benching	0	0		
			114	114
Benching	267	267		
Ahead	828	2233		
Back	1095	2500		
			482	1073
Ahead	1074	2830		
Back	740	1,996		
Benching	334	334		
			173	173
			828	3,177
Sta 365+10 Benching	0	0		

CALC. T.E.K. DATE 10/22/69

CHK'D R.J.R. DATE 10/23/69

STA. 365+38 – STA. 365+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA R/W
222'

0.3%

Match Line B

600

2:1 12:1 2:1

190

130 595.83 170

G.R.

LA R/W

12:1

2:1

Match Line B

590

G2835
366+45
634.0

End Area		Volume	
Cut	Fill	Cut	Fill
962	2541		
		1355	4081
664	2356		
		1381	4382

LA R/W

0.3%

Match Line A

600

2:1 12:1 2:1

190 150 595.70 170 190

0.3%

G.R.

LA R/W

12:1

2:1

Match Line A

590

627.00
366+00
629.1

CALC. T.E.K. DATE 10/22/62

CHK'D R.J.R. DATE 10/29/62

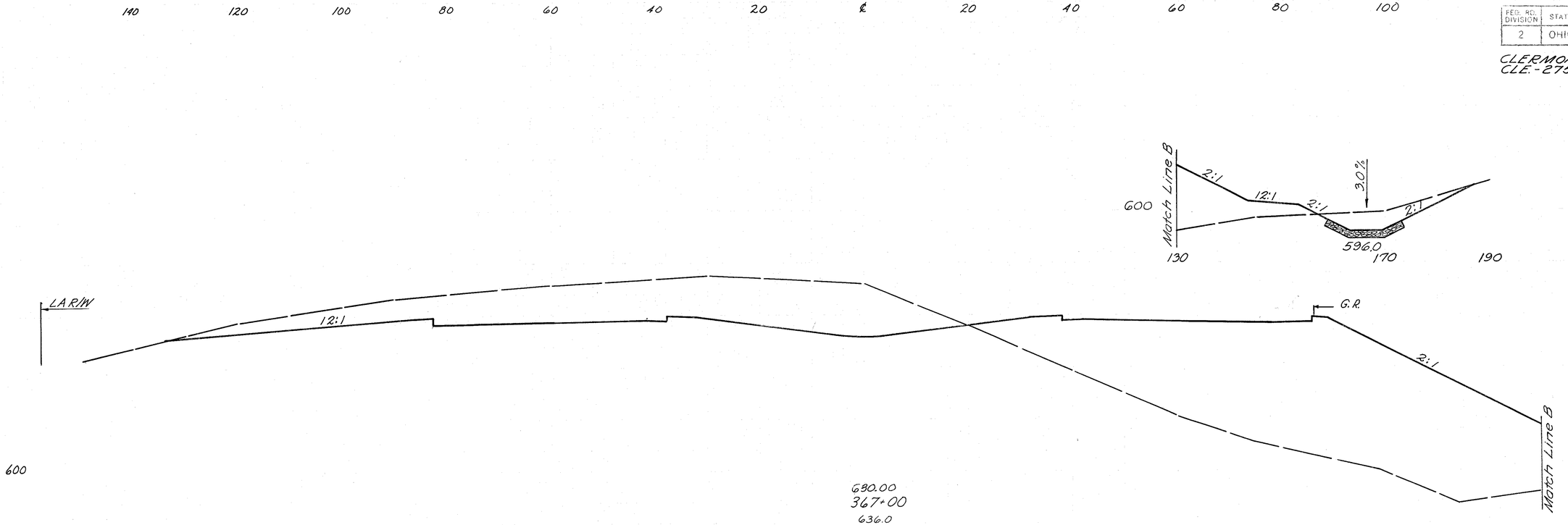
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 366+00 – STA. 366+45

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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698

CLERMONT COUNTY
CLE.-275-6.68



	End Area		Volume	
	Cut	Fill	Cut	Fill
LA R/W				
	975	2087		
			1774	4309
LA R/W				
	941	2567		
			176	472

CALC. T.E.K. DATE 10/22/69
CHK'D R.J.R. DATE 10/23/69

STA. 366+50 - STA. 367+00

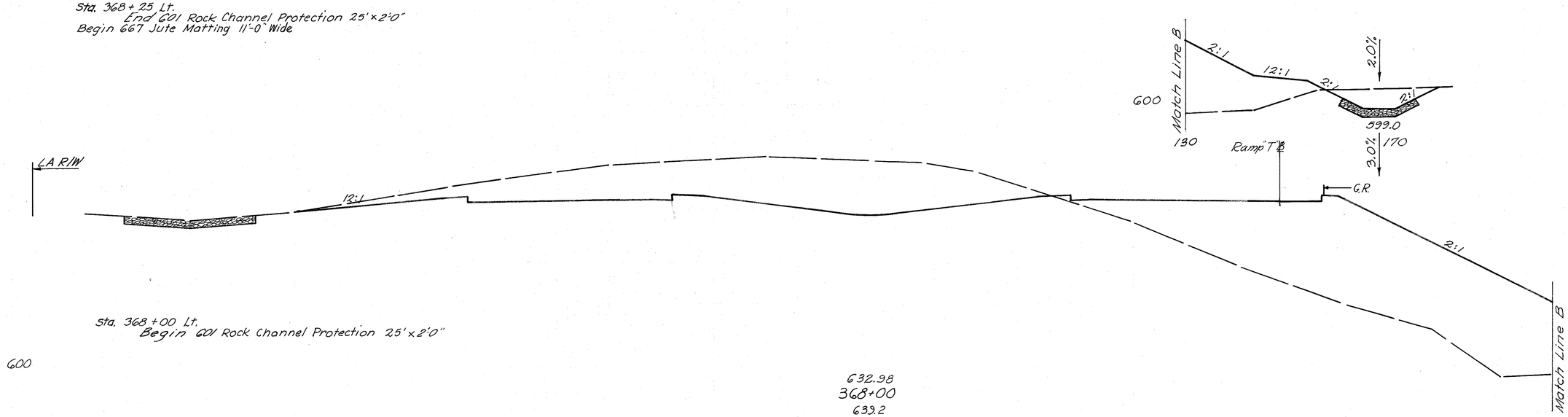
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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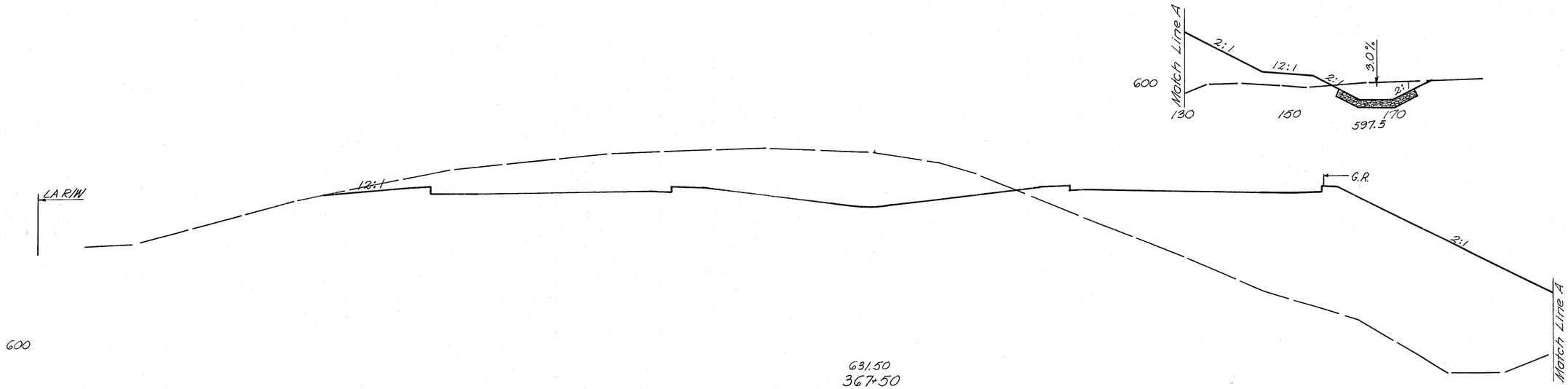
CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

Sta. 368+25 Lt.
End 601 Rock Channel Protection 25'×2'0"
Begin 667 Jute Matting 11'-0" Wide



End Area		Volume	
Cut	Fill	Cut	Fill
878	1421		
		1621	2961



873	1777		
		1706	3578

CALC. TEK DATE 10/23/69
CHKD. R.J.R DATE 10/23/69

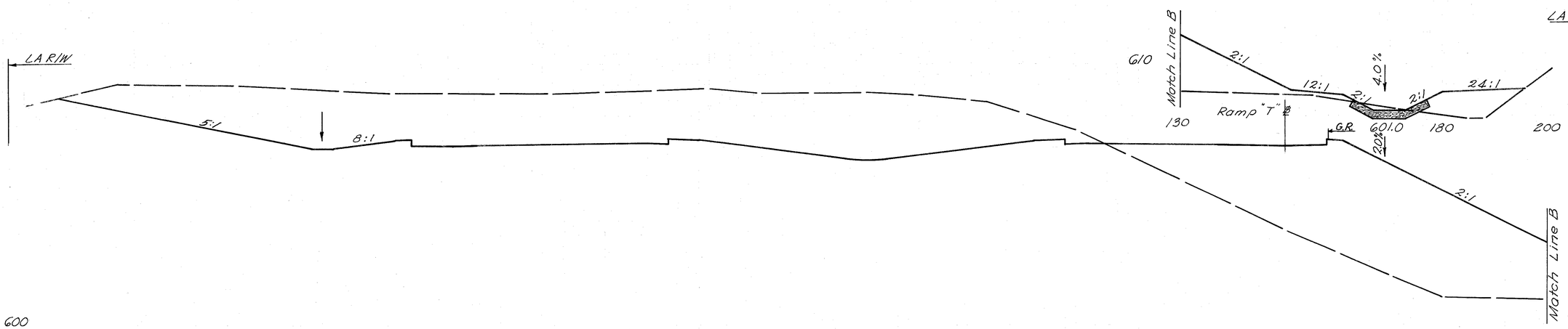
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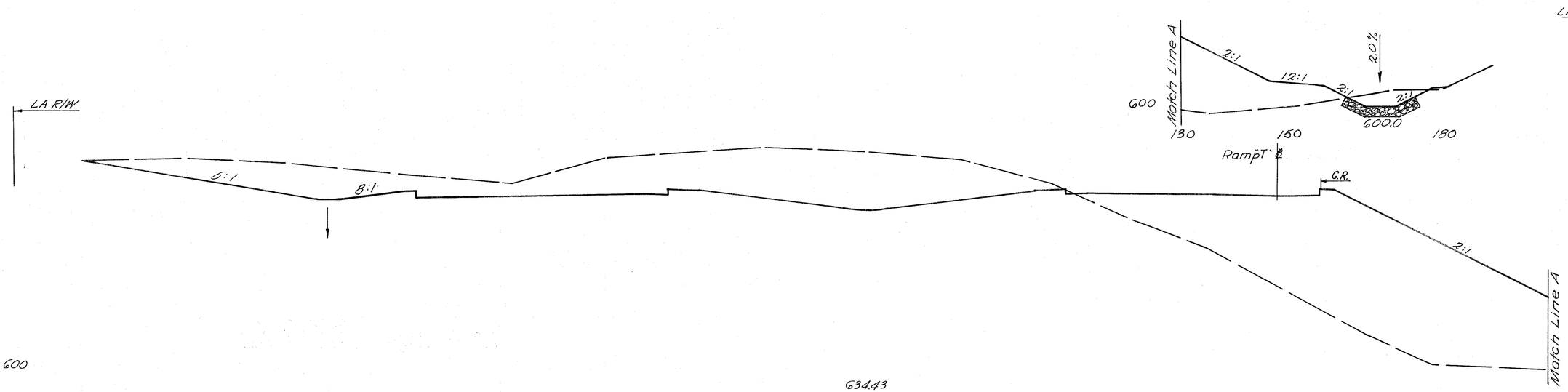
STA. 367+50 – STA. 368+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68





End Area		Volume	
Cut	Fill	Cut	Fill
1808	1424		
		2787	2844
1150	1618		
		1878	2842

CALC. T.E.K. DATE 10/22/69

CHK'D R.J.R. DATE 10/23/69

STA. 368+50 - STA. 369+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

139
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA R/W
4:1
8:1
610
G3858
370+00
648.9
Match Line B
2:1
12:1
1.60%
2:1
2:1
LA R/W
207'
607.0
130
℄ Ramp "T"
170
8.0%
G.R.
2:1
Match Line B

LA R/W
4:1
8:1
610
G3723
369+50
648.0
Match Line A
610
2:1
12:1
8.0%
2:1
LA R/W
209'
603.0
130
℄ Ramp "T"
170
4.0%
G.R.
2:1
Match Line A

End Area		Volume	
Cut	Fill	Cut	Fill
2258	1975		
		4006	3481
2175	1785		
		3736	2971

CALC'D T.E.K. DATE 10/22/69
CHK'D R.J.R. DATE 10/23/69

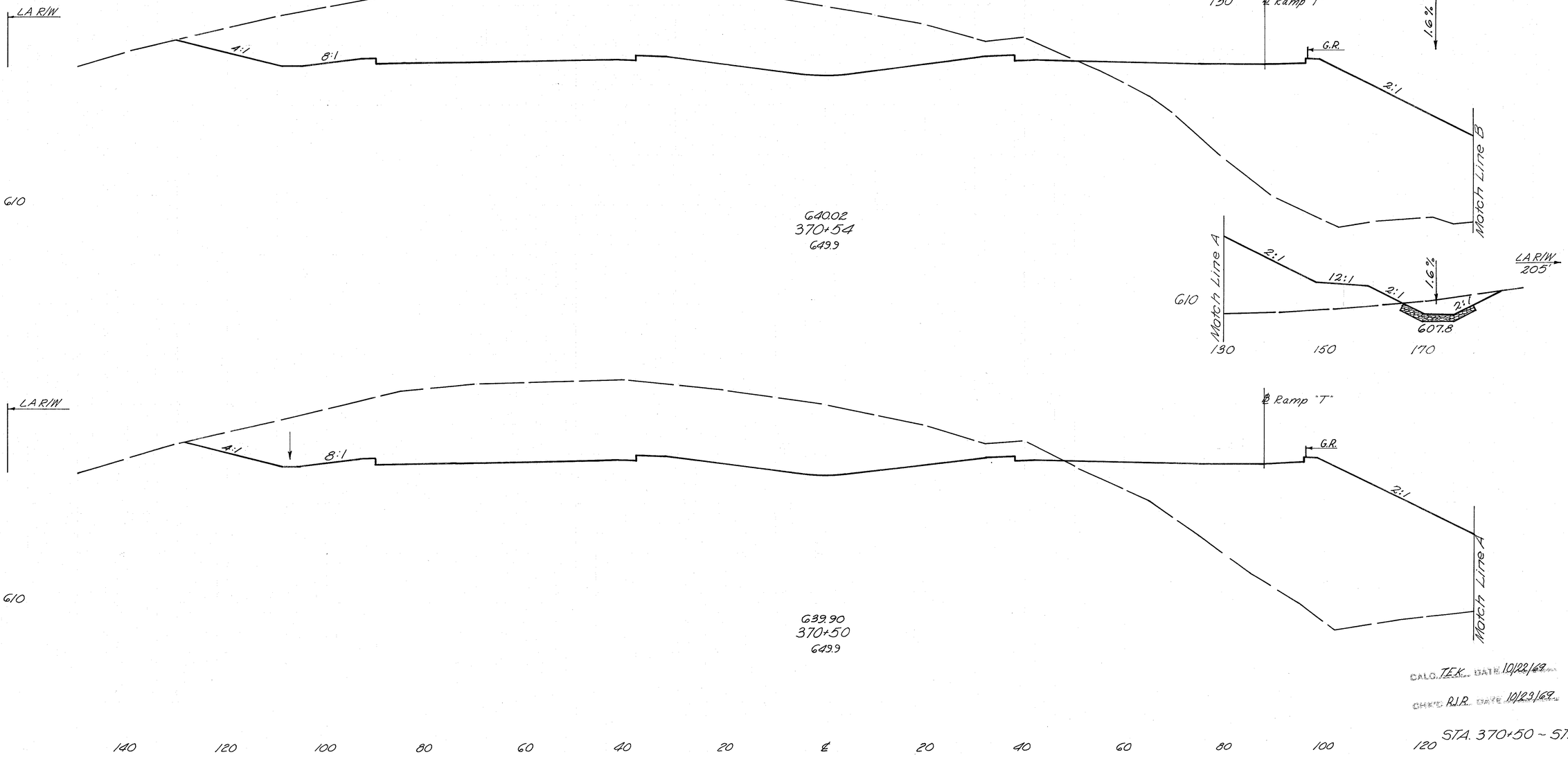
STA. 369+50 ~ STA. 370+00

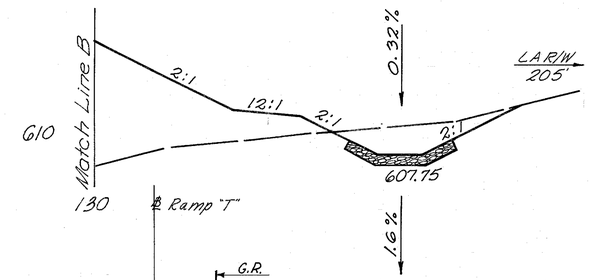
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

140
633

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100





End Area		Volume	
Cut	Fill	Cut	Fill
215?	1744		
		311	263
2085	1802		
		3966	3497

CALC. TEK DATE 10/22/69

CHK'D RJR DATE 10/23/69

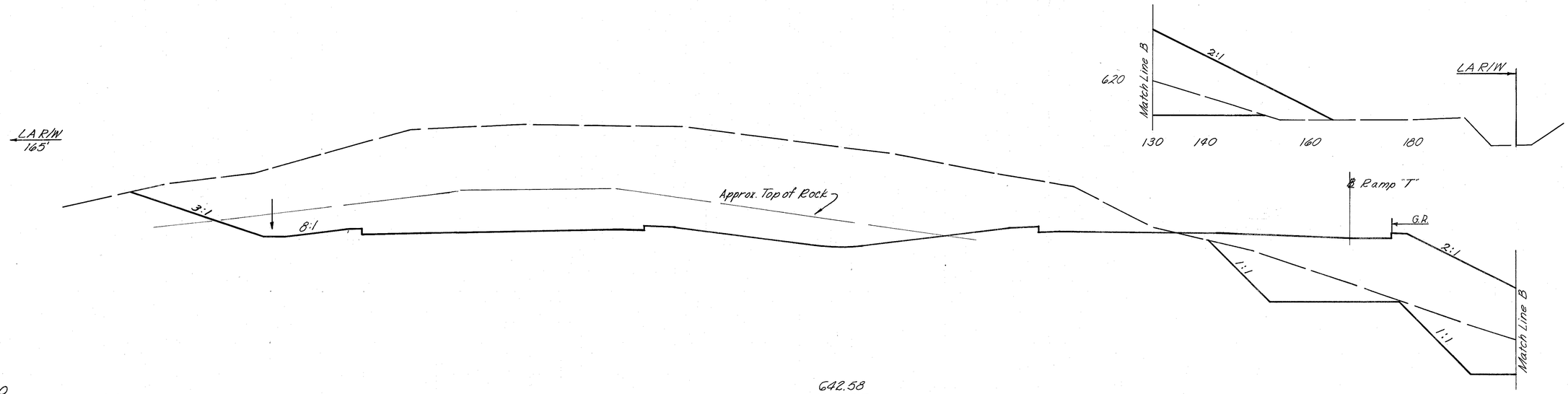
STA. 370+50 ~ STA. 370+54

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

(41 638)

CLERMONT COUNTY
CLE-275-6.68

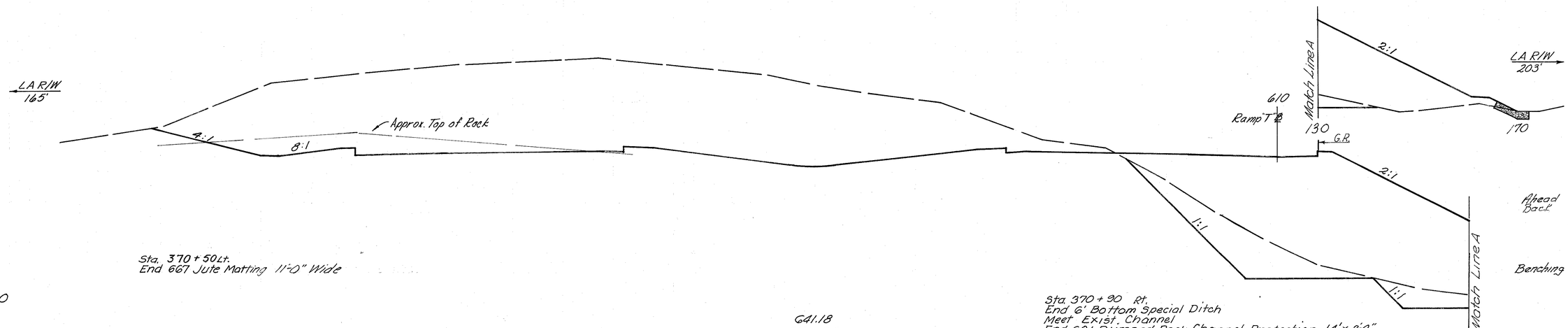
140 120 100 80 60 40 20 ℄ 20 40 60 80 100



610

G42.58
371+55
G57.8

Sta. 371+10
End 601 Dumped Rock Channel Protection 6'x2'0"



Sta. 370+50 Lt.
End 667 Jute Matting 11'-0" Wide

610

G41.18
371+00
G53.5

Sta. 370+30 Rt.
End 6' Bottom Special Ditch
Meet Exist. Channel
End 601 Dumped Rock Channel Protection 14'x2'0"
Begin 601 Dumped Rock Channel Protection 6'x2'0"

Sta. 370+75
Begin Special Slope Benching

	End Area Cut	End Area Fill	Volume Cut	Volume Fill
	3344	1089		
				6293
				7790
Ahead	2834	1650		
Back	2531	1347		
Benching	303	303		
			129	129
			3993	2633
Sta 370+75 Benching	0	0		

CALC. T.F.K. DATE 10/22/69

CHK'D R.J.P. DATE 10/23/69

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 371+00 – STA. 371+55

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

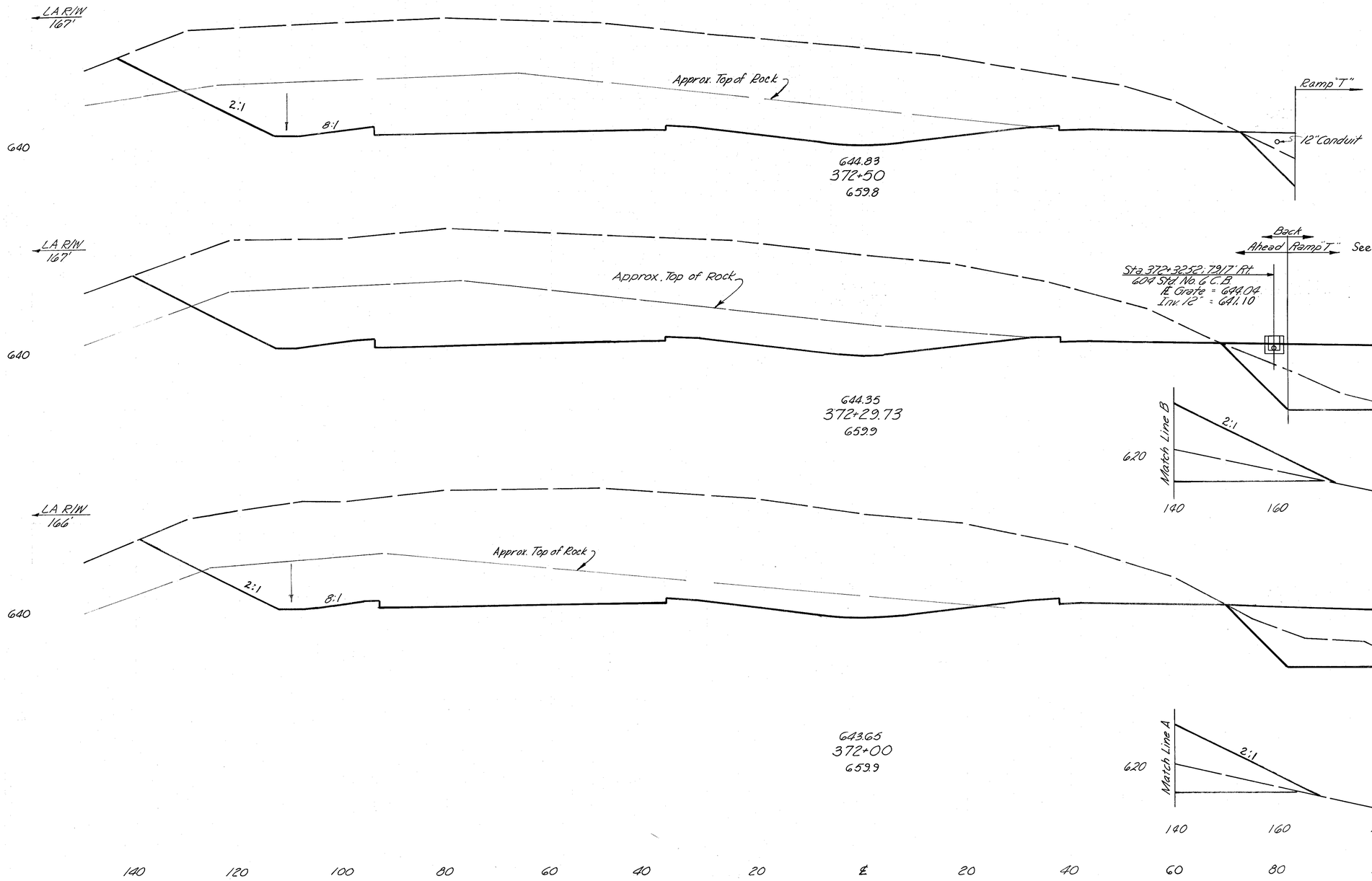
142
628

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

For Continuation of Special Slope Benching See Sheet No. 331

	End Area		Volume	
	Cut	Fill	Cut	Fill
	3521	51		
			2519	51
Ahead	3529	85		
Back	3939	1291		
			4361	1345
	3989	1180		
			4077	1849



CALC. T.E.K. DATE 10/22/69

CHK'D R.J.R. DATE 10/23/69

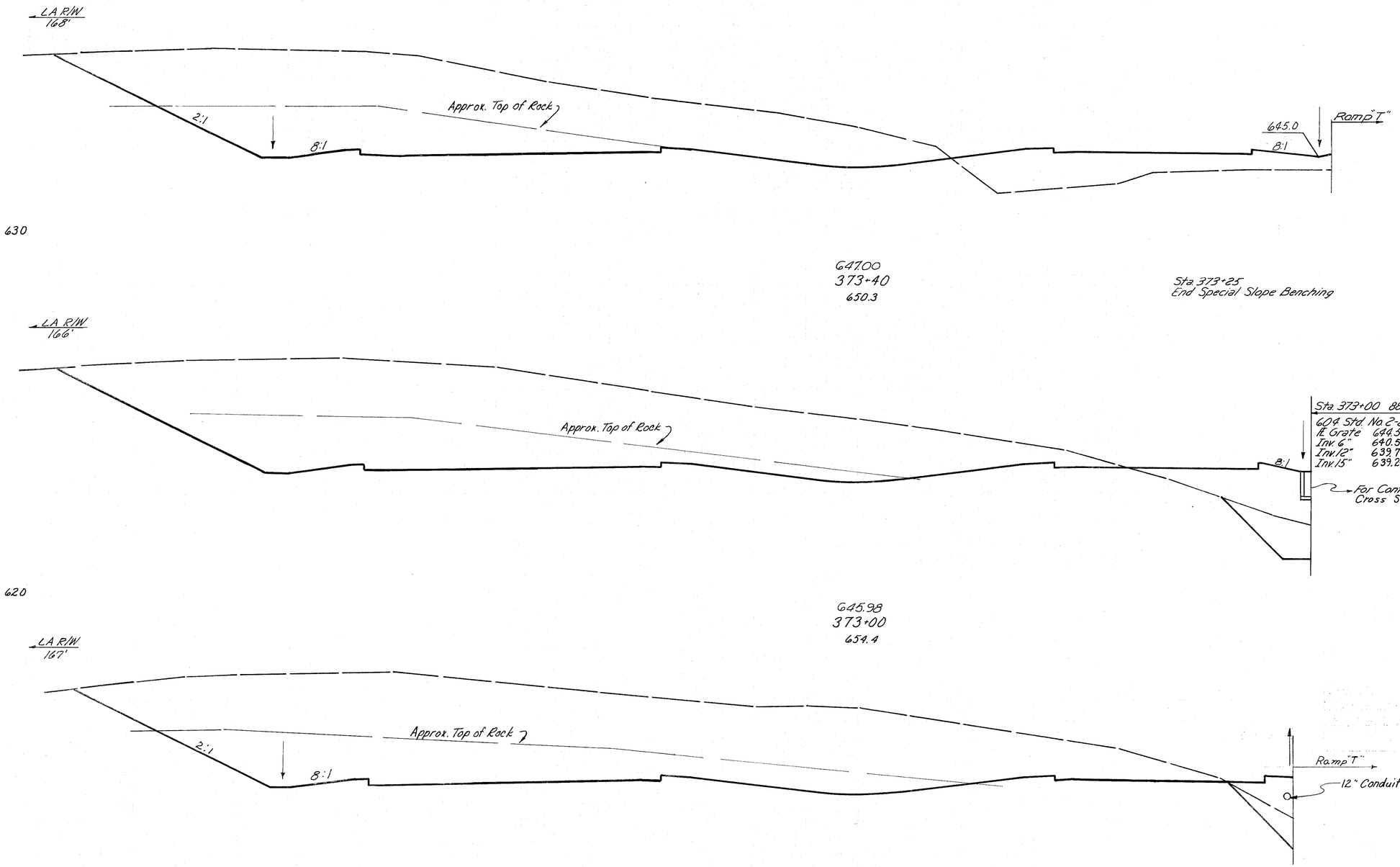
STA. 372+00 – STA. 372+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

143
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
2153	354		
		3629	475
2840	287		
		3131	194
3125	88		
		8955	1185

CALC. JEK DATE 10/22/69

CHK'D R.J.R. DATE 10/23/69

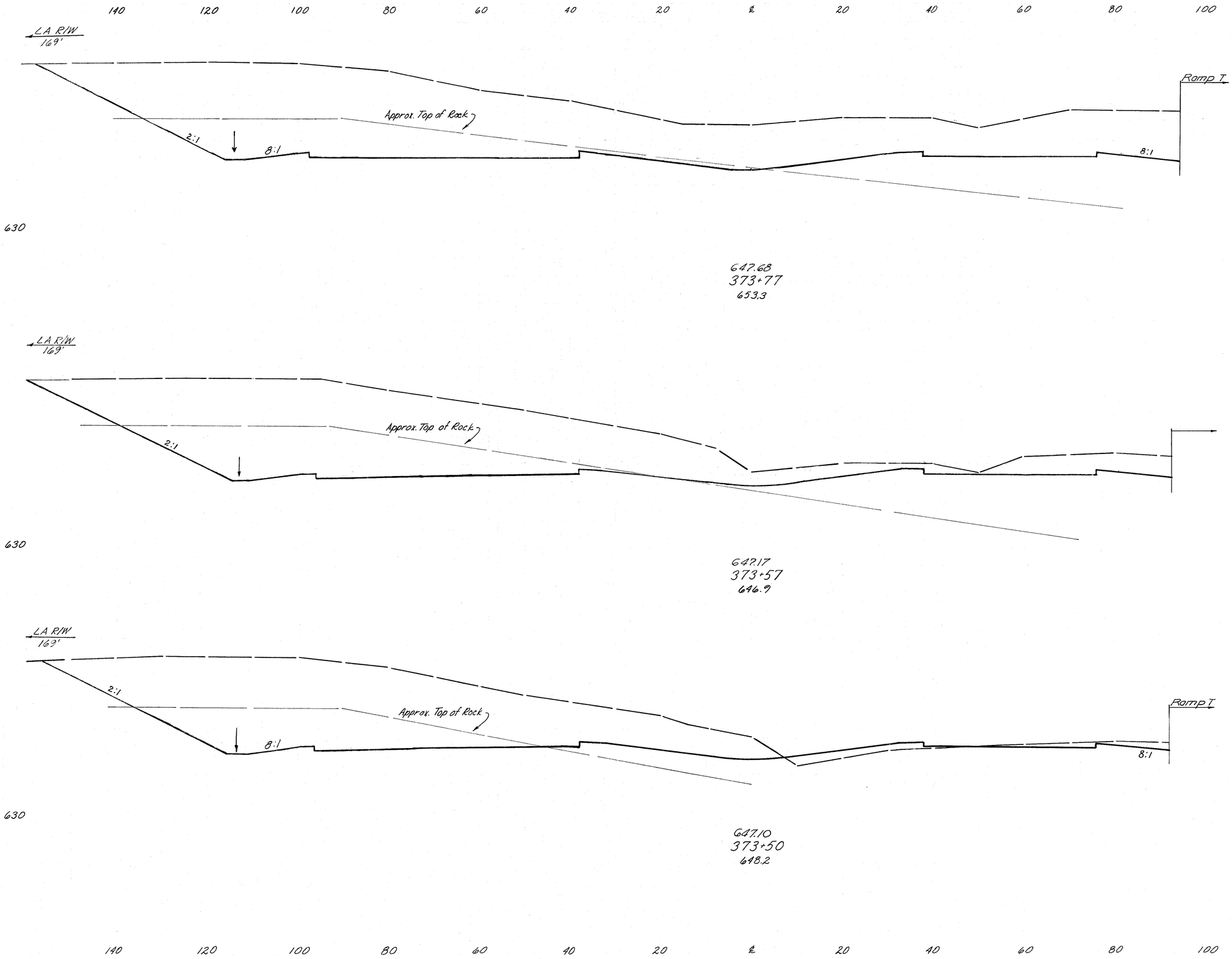
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 372+72 ~ STA. 373+40

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
3056	0		
		2078	0
2554	0		
		601	6
2081	48		
		781	94

CMC T.E.K. DATE 10/22/69

CHK'D R.J.R. DATE 10/23/69

STA. 373+50 ~ STA. 373+77

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

Sta 374+77.79 75.10' Lt.
604 Std No 6 C.B.
Rt Grate 649.43
Inv 6" 646.90
Inv 12" 646.68
Inv 15" 646.93
(C.B. Grate is Depressed 2" from Surface Slope)

LA R/W
171'

Ramp "V"

Approx. Top of Rock

2:1

8:1

15" Conduit, To Sta. 374+50 ℄

Ramp I

8:1

5:1

STA. 360+00 - STA. 375+00

Excavation	91,710 C.Y.
Embankment	115,775 C.Y.

630

G50.25
375+00
671.1

Sta 374+50 ℄
604 Std No 4 C.B.
Rt Grate 644.73
Inv 15" 642.03
Inv 18" 641.78

LA R/W
170'

Approx. Top of Rock

15" Conduit

18" Conduit To Sta. 374+17, 95' Rt.

630

G49.23
374+50
667.2

LA R/W
170'

Sta 374+17 95' Rt.
604 Std No 5 C.B.
Rt Grate 646.00
Rt 18" 639.78

Ramp I

Top of Dike 647.5

2:1

8:1

Approx. Top of Rock

For Continuation See
Ramp T Cross Section
See Sheet No. 332

18" Conduit

630

G48.18
374+00
659.3

End Area		Volume	
Cut	Fill	Cut	Fill
5189	0		
		9132	0
4674	0		
		7736	0
3681	0		
		2869	0

CALC. T.E.K. DATE 10/22/69

CHK'D R.J.R. DATE 10/23/69

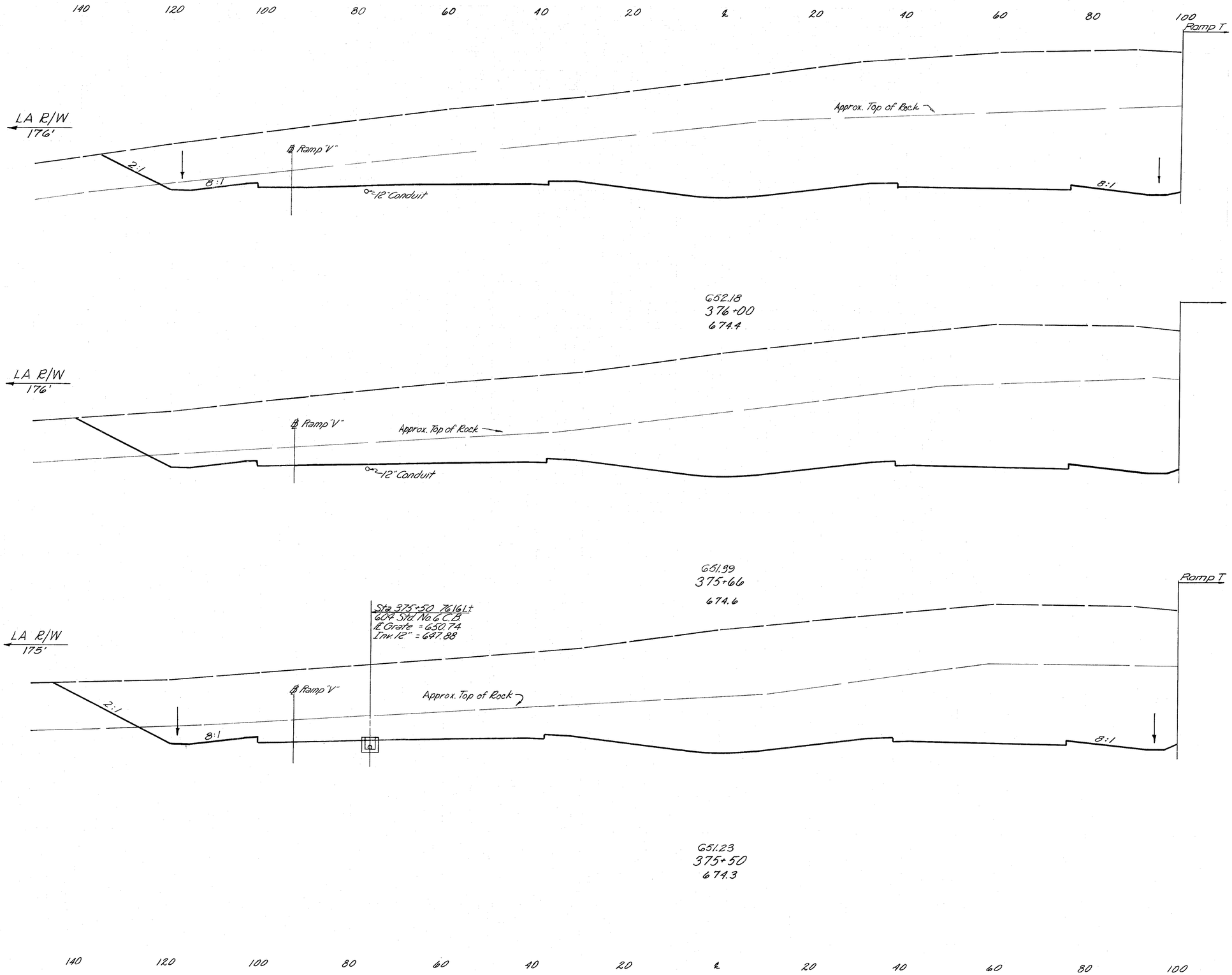
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 374+00 ~ STA. 375+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
4944	0		
		6406	0
5231	0		
		3109	0
5262	0		
		9677	0

CALC. SCZ DATE 5/20/68

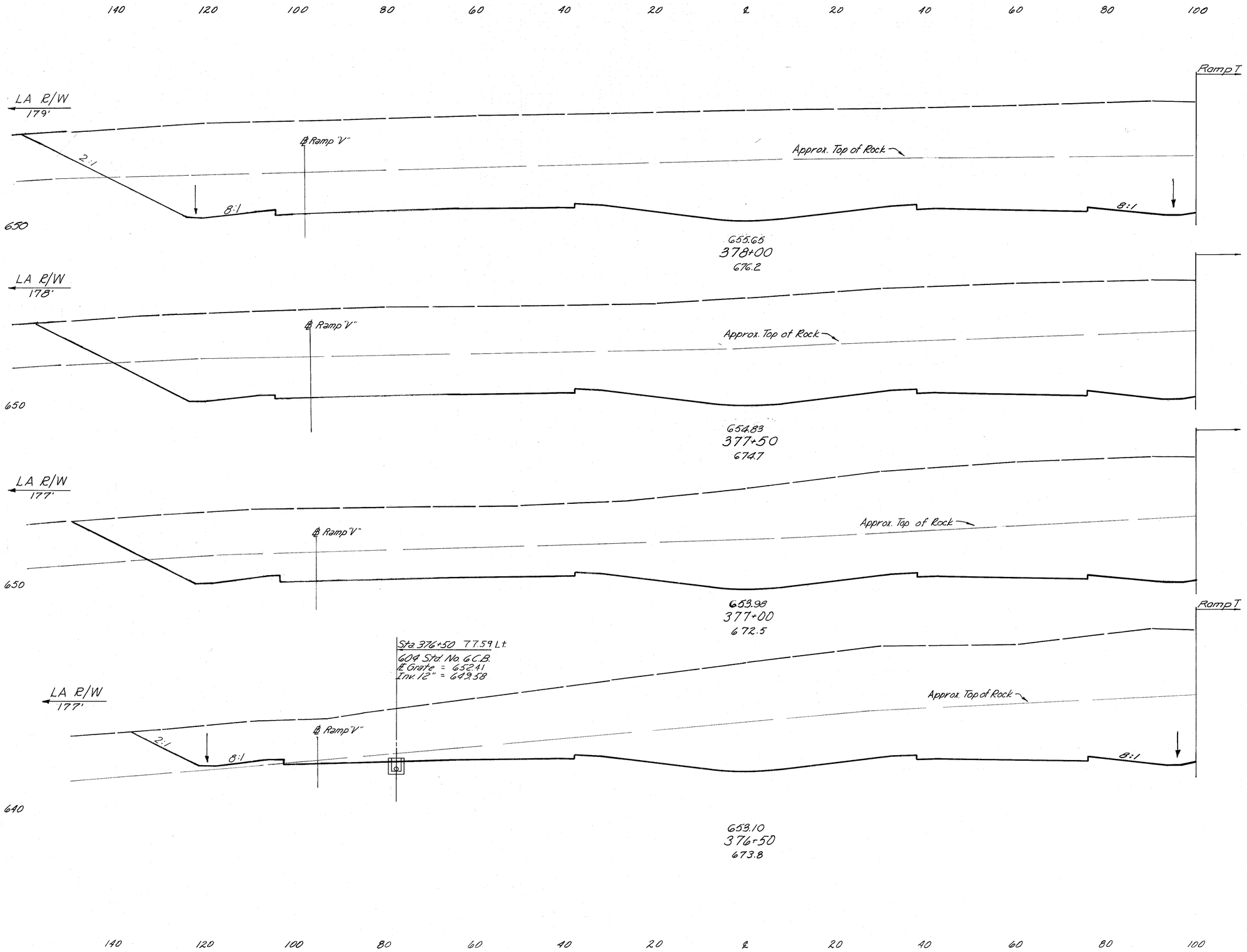
CHK'D RJR DATE 5/21/68

STA. 375+50 ~ STA. 376+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

147
638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
5336	0		
		9059	0
4448	0		
		8540	0
4775	0		
		8550	0
4459	0		
		8706	0

CALC. SCZ DATE 5/20/68

CHK'D RJR DATE 5/21/68

STA. 376+50 ~ STA. 378+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE-275-6.68

	End Area		Volume	
	Cut	Fill	Cut	Fill
Ahead	3323	0		
Back	4405	0		
			8360	0
	4624	0		
			8640	0
	4708	0		
			9136	0
	5159	0		
			9717	0

CALC. SCZ DATE 5/20/68

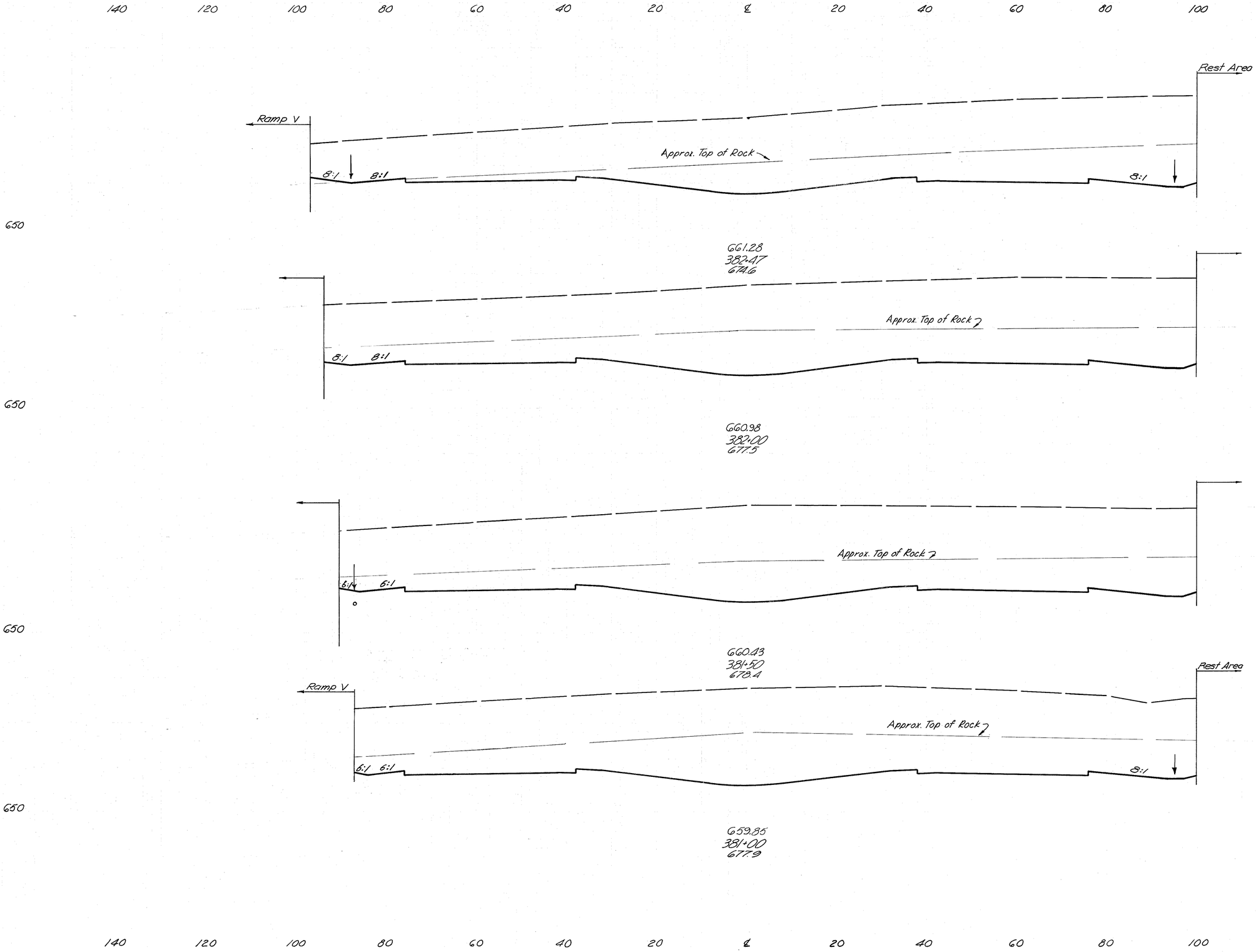
CHK'D R.I.R. DATE 5/21/68

STA. 378+50 ~ STA. 380+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
2940	0		
		5479	0
3355	0		
		6264	0
3410	0		
		6319	0
3415	0		
		12478	0

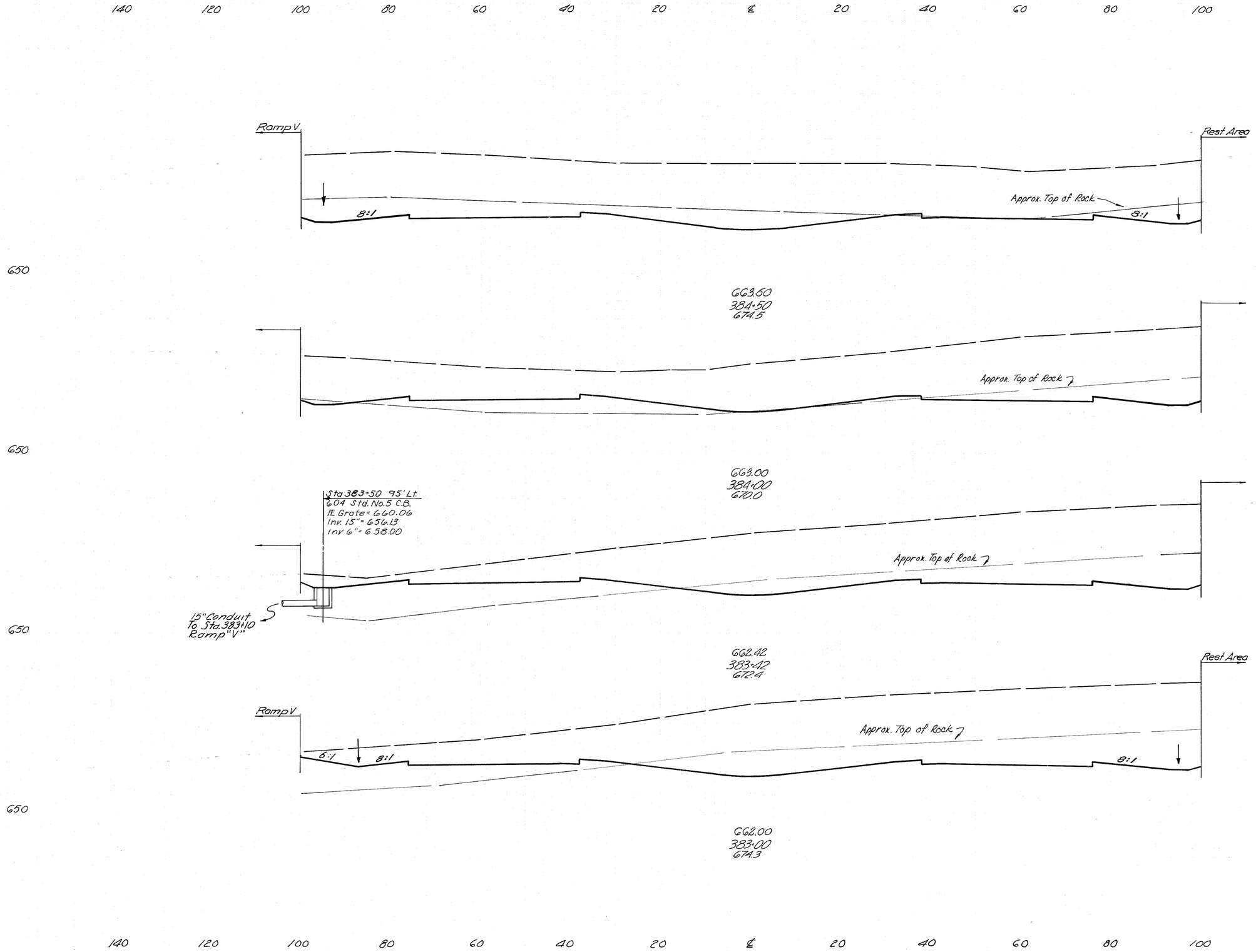
DALG. S.C.Z. DATE 5/20/68.
CHK'D. R.J.P. DATE 5/21/68.

STA. 381+00 ~ STA. 382+47

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
2600	0		
		2505	0
2106	0		
		4542	0
2123	0		
		3521	0
2405	0		
		5246	0

CALC. S.C.Z. DATE 5/20/68.

CHK'D. R.J.R. DATE 5/20/68.

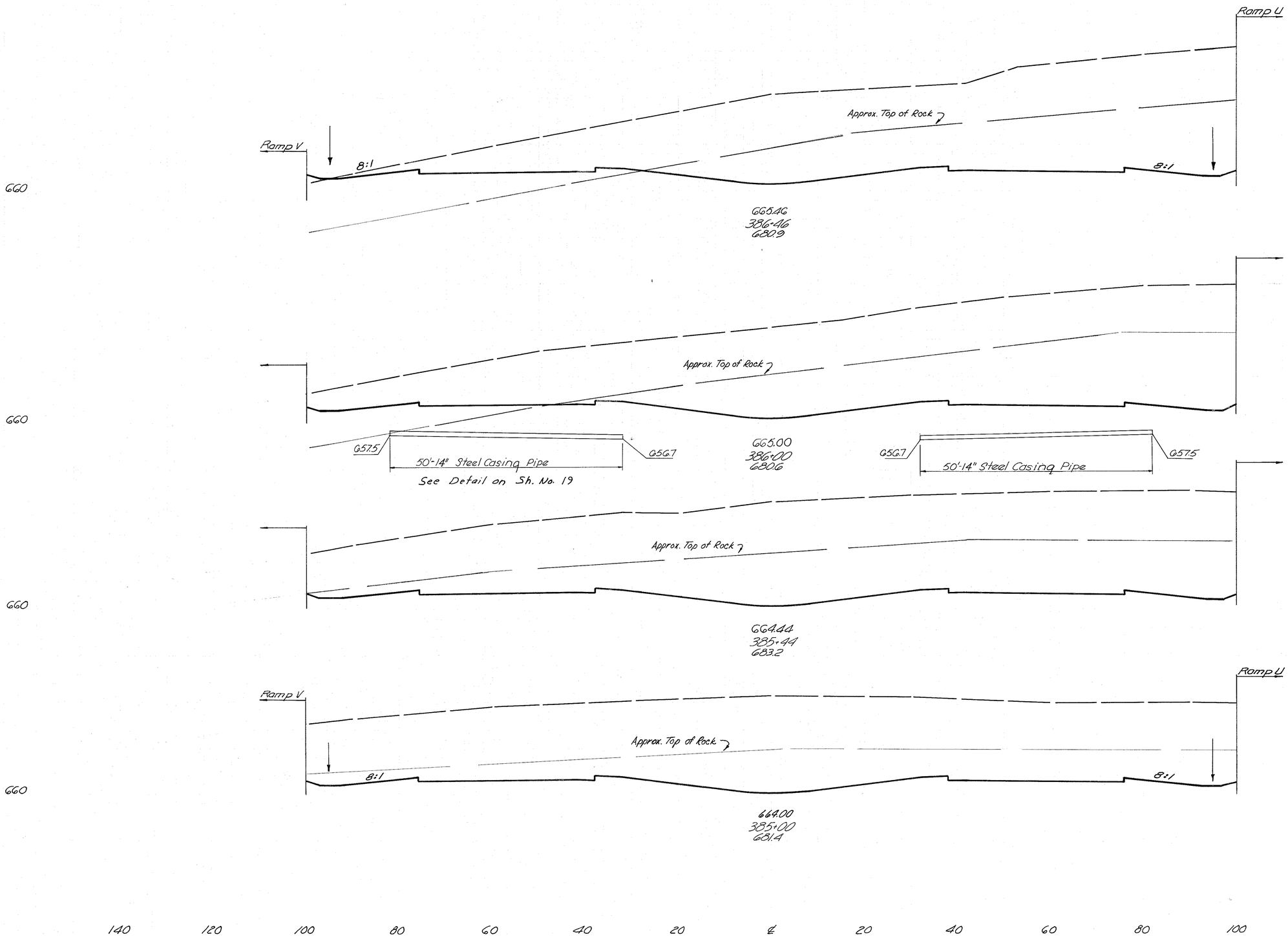
STA. 383+00 ~ STA. 384+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

151
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
2970	4		
		5432	3
3407	0		
		7416	0
3744	0		
		5879	0
3470	0		
		5620	0

CALC. S.C.Z. DATE 5/20/68

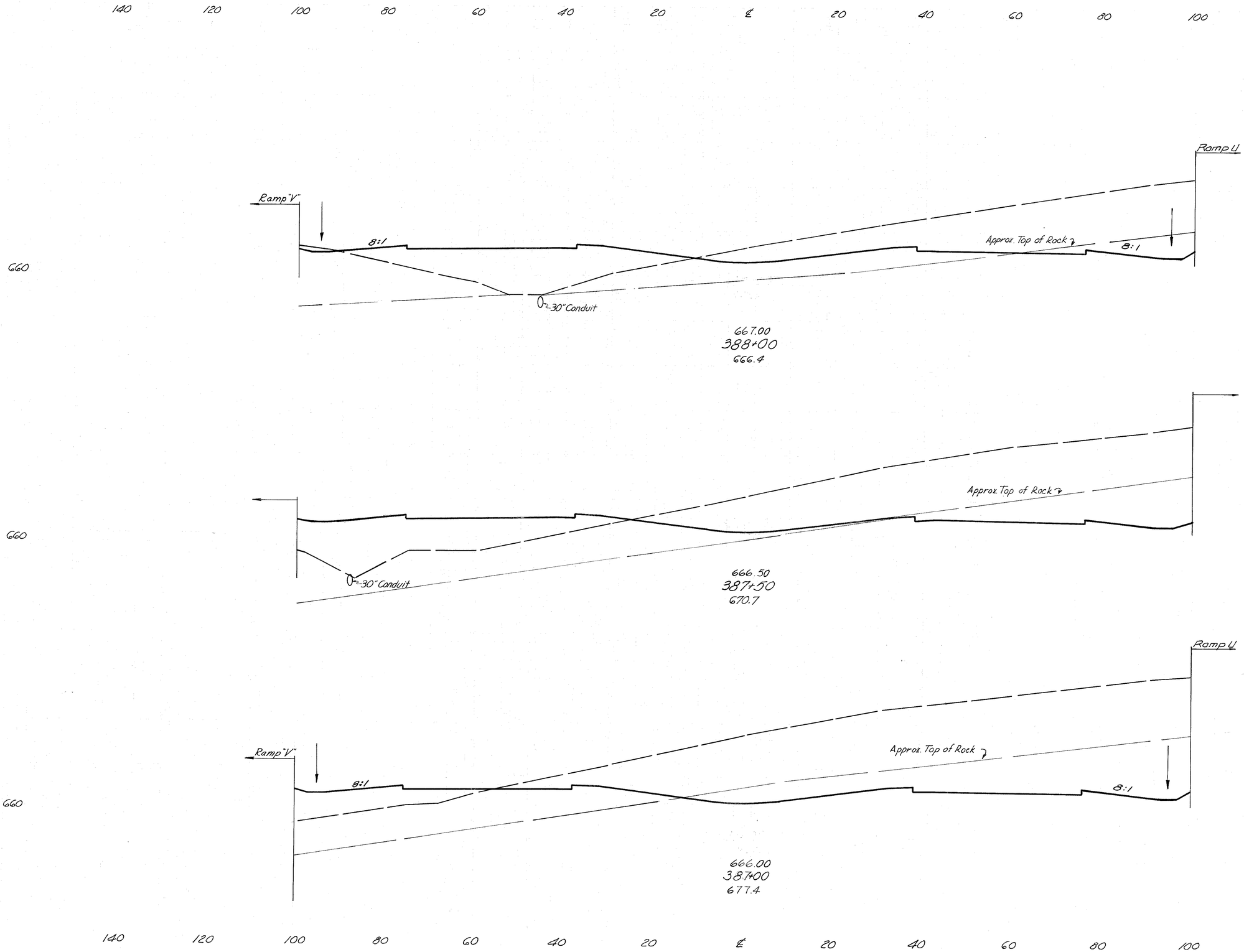
CHK'D R.L.R. DATE 5/21/68.

STA. 385+00 ~ STA. 386+46

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

152
638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
970	459		
		2380	881
1600	493		
		3751	614
2451	170		
		5421	174

CALC. S.C.Z. DATE 5/20/68

CHK'D R.J.R. DATE 5/21/68

STA. 387+00 - STA. 388+00

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

153
638

CLERMONT COUNTY
CLE.-275-6.68

STA. 375+00 - STA. 390+00	
Excavation	183,488 C.Y.
Embankment	3,128 C.Y.

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

670

Rest Area

Approx. Top of Rock

8:1

8:1

Ramp U

21" Conduit

669.00
390+00
680.2

660

Approx. Top of Rock

Sta 389+50.15 79' Rt.
604 Std. No. 1 M.H.
Top Elev. 667.94
Inv. 21" 660.77
Inv. 24" 660.50
Inv. 30" 660.00
Inv. 6" 664.05

21" Conduit

30" Conduit

24" Conduit

30" Conduit

668.36
389+36
671.0

660

Sta 389+00 ℄
604 Std. No. 4 C.B.
℄ Grate 663.50
Inv. 15" 659.81

668.00
389+00
660.3

30" Conduit

15" Conduit

15" x 30" Tee

660

Rest Area

8:1

8:1

Ramp U

30" Conduit

667.65
388+65
666.7

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

End Area		Volume	
Cut	Fill	Cut	Fill
2436	6		
		4652	72
1487	55		
		1685	92
1041	83		
		1214	262
832	322		
		2169	940
		1615	
			90

CALC. S.C.Z. DATE 5/20/68

CHK'D. R.J.R. DATE 5/21/68

203 Excavation Not Including Embankment Construction From Sht. No. 442

203 Embankment From Sht. No. 442

STA. 388+65 - STA. 390+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

Ramp "W"

Approx. Top of Rock

8:1

Sta. 392+00 79' Rt.
604 Std. No. 1 MH
Top Elev. = 670.96
Inv. 21" = 663.27

Ramp "U"

Ahead
Back
Ramp U
See Sheet No. 336

Match Line A

21" Conduit

603.56' 21" Conduit Type B
Cl. B Bedding @ 130%

LA R/W
239'

660

671.00
392+00
703.1

Approx. Top of Rock

2:1

Approx. Top of Rock

Match Line A

℄ Sta. 392+00, 135' Rt. =
Ramp U Sta. 391+99, 25' Rt.
604 Std. No. 5 C.B.
Rt. Grate = 667.58
Inv. 21" = 664.00
Inv. 6" = 665.50

8:1

670.50
391+50
700.3

21" Conduit

Approx. Top of Rock

8:1 3:1

660

670.00
391+00
694.8

21" Conduit

Sta. 390+75
End 4' Bottom Ditch

Ramp "W"

Ramp "U"

Approx. Top of Rock

8:1 8:1

660

669.50
390+50
687.5

21" Conduit

	End Area Cut	End Area Fill	Volume Cut	Volume Fill
Ahead	8136	0		
Back	5691	0		
			10347	0
	5484	0		
			9550	0
	4830	0		
			7925	0
	3729	0		
			5108	0

CALC. S.C.Z. DATE 5/20/68

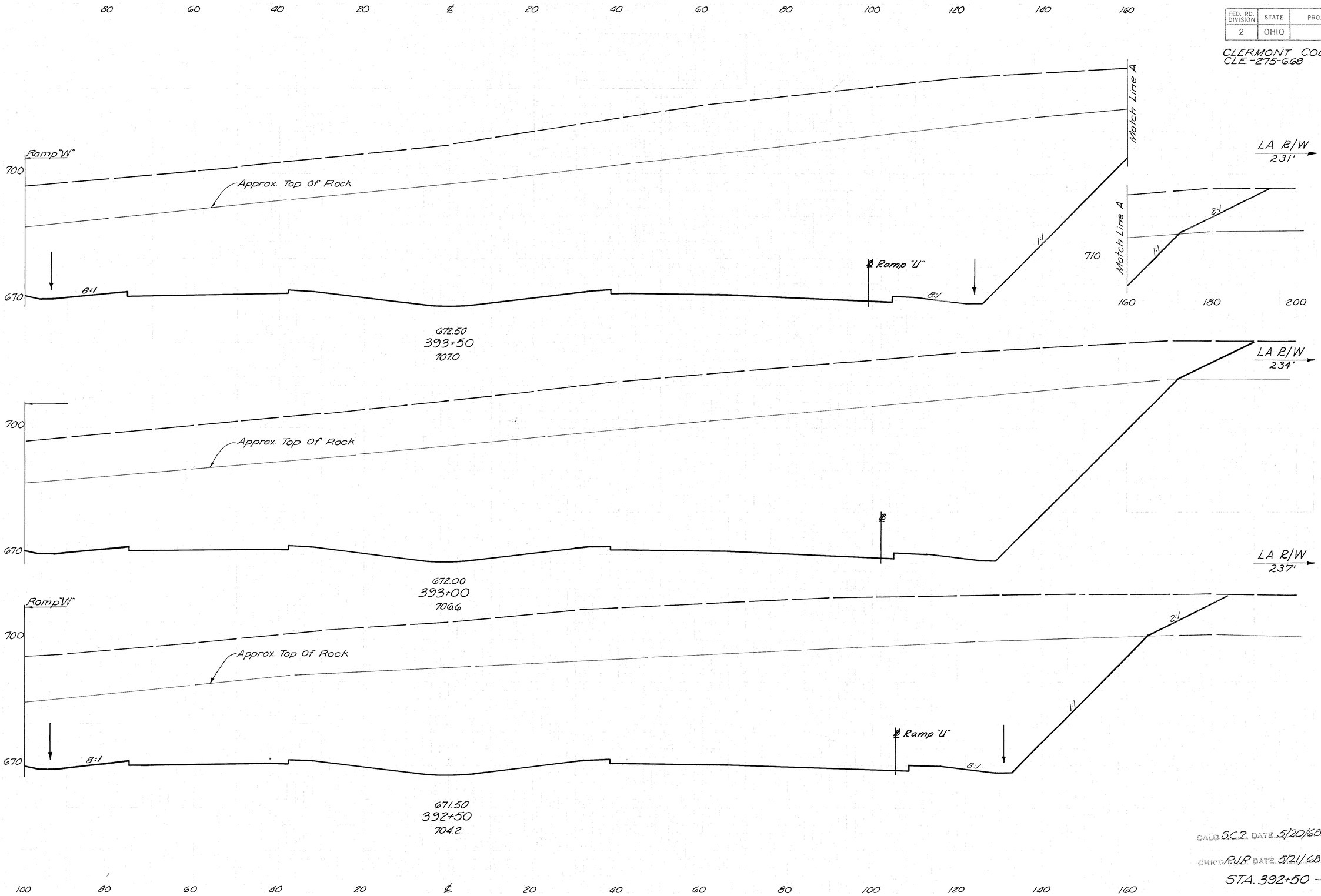
CHK'D R.J.R. DATE 5/21/68

STA. 390+50 - STA. 392+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
10358	0		
		18808	0
9955	0		
		17687	0
9148	0		
		16003	0

CALC. S.C.Z. DATE 5/20/68

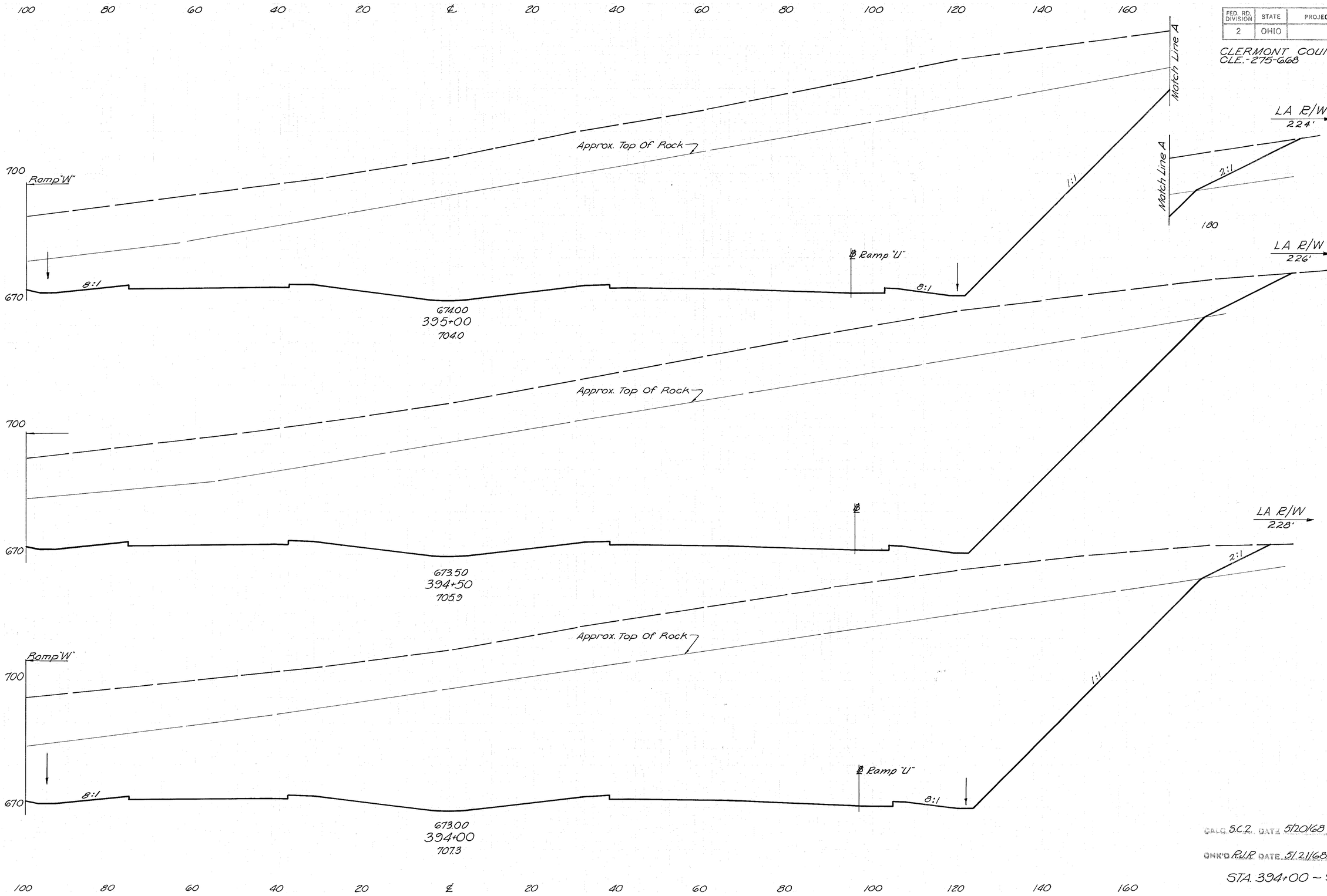
CHK'D R.J.R. DATE 5/21/68

STA. 392+50 ~ STA. 393+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
9558	0		
		18310	0
10215	0		
		19277	0
10605	0		
		19410	0

CALC. S.C.Z. DATE 5/20/68

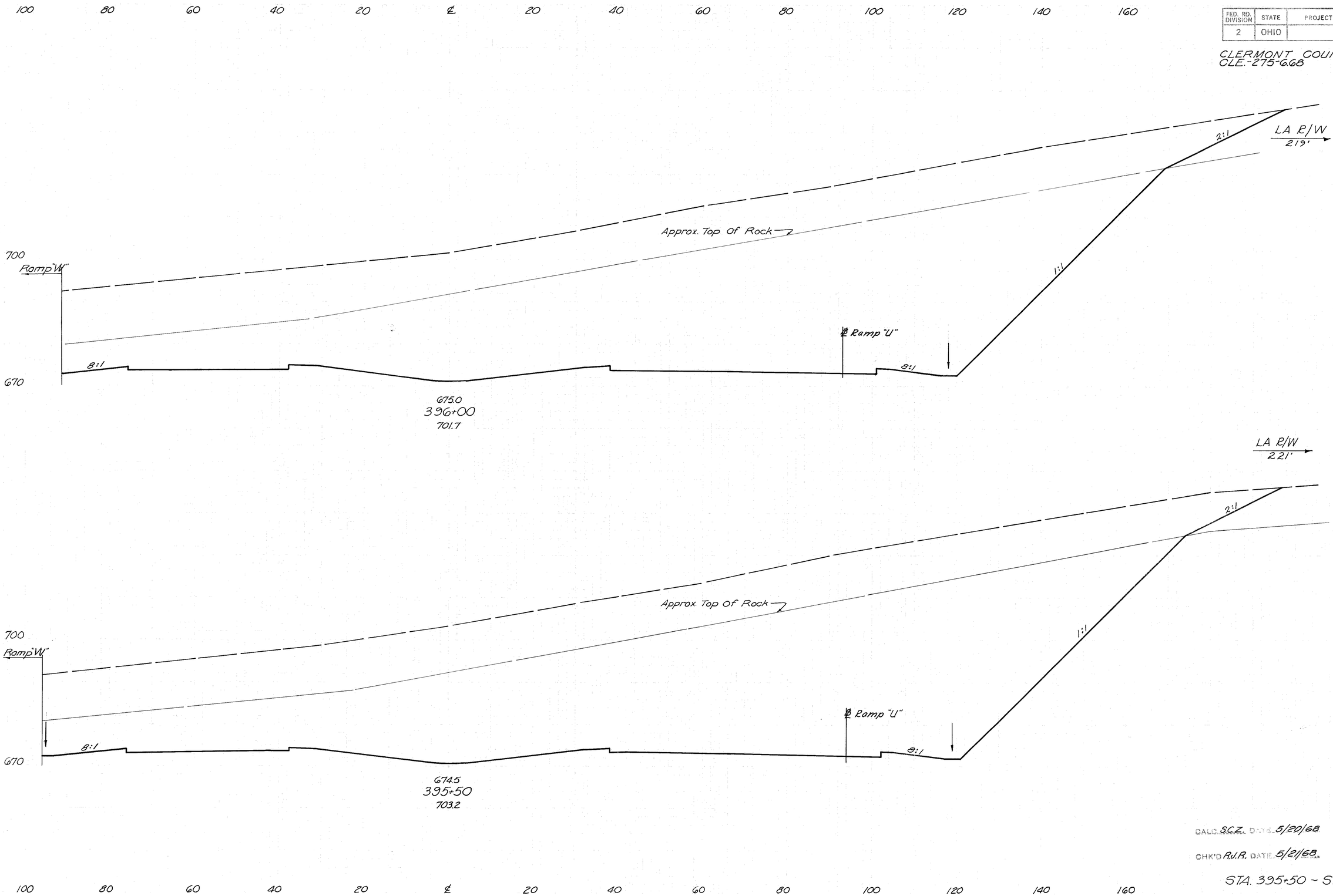
CHK'D R.J.R. DATE 5/21/68

STA. 394+00 – STA. 395+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
8452	0		
		16250	0
9098	0		
		17274	0

CALC. S.C.Z. DATE 5/20/68

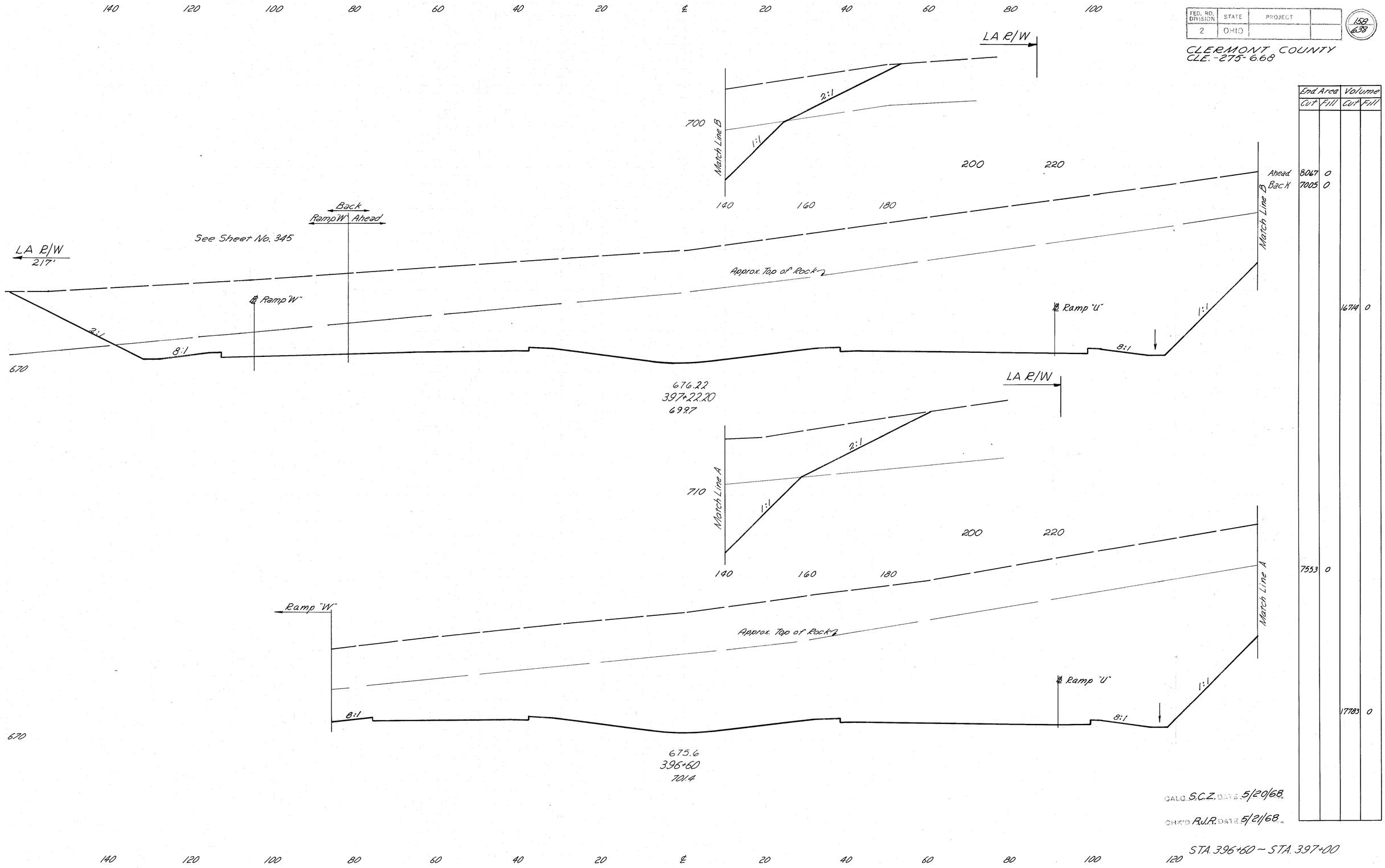
CHK'D R.J.R. DATE 5/21/68

STA. 395+50 ~ STA. 396+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE.-275-6.68



	End Area Cut	End Area Fill	Volume Cut	Volume Fill
Ahead	8067	0		
Back	7005	0		
			16714	0
	7553	0		
			17783	0

CALC. S.C.Z. DATE 5/20/68.

CHK'D R.J.R. DATE 5/21/68.

STA. 396+60 – STA. 397+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

159
6.38

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA R/W 188'

℄ Ramp "W"

℄ Ramp "U"

Match Line C

2:1 8:1 8:1 2:1

670

677.46
398+46.20
697.4

LA R/W

Match Line C

2:1

690

160 180 200

140

LA R/W 195'

℄ Ramp "W"

℄ Ramp "U"

Match Line B

1:1

LA R/W 209'

2:1

670

677.00
398+00
697.9

700

Match Line B

140

LA R/W 203'

Approx. Top of Rock

Match Line A

℄ Ramp "W"

℄ Ramp "U"

2:1 8:1 8:1 1:1

LA R/W 212'

670

676.50
397+50
698.7

710

Match Line A

2:1

1:1

140

End Area		Volume	
Cut	Fill	Cut	Fill
6672	0		
		11499	0
6828	0		
		13221	0
7451	0		
		8046	0

CALC. S.C.Z. DATE 5/20/68

CHK'D R.J.R. DATE 5/21/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA 397+50 ~ STA 398+46.20

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

160
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA R/W
166'

2:1

8:1

℄ Ramp "W"

℄ Ramp "U"

8:1

2:1

Match Line C

LA R/W
199'

2:1

Match Line C

700

140

670

679.00
400+00
693.7

LA R/W
175'

Match Line B

670

678.50
399+50
695.5

LA R/W
201'

Match Line B

140

LA R/W
181'

2:1

8:1

℄ Ramp "W"

℄ Ramp "U"

8:1

2:1

Match Line A

670

678.00
399+00
695.3

LA R/W
204'

Match Line A

700

2:1

End Area		Volume	
Cut	Fill	Cut	Fill
4375	0		
		8689	0
5009	0		
		9743	0
5514	0		
		12186	0

CALC. S.C.Z. DATE 5/20/68

CHK'D R.J.R. DATE 5/21/68

STA. 399+00 - STA. 400+00

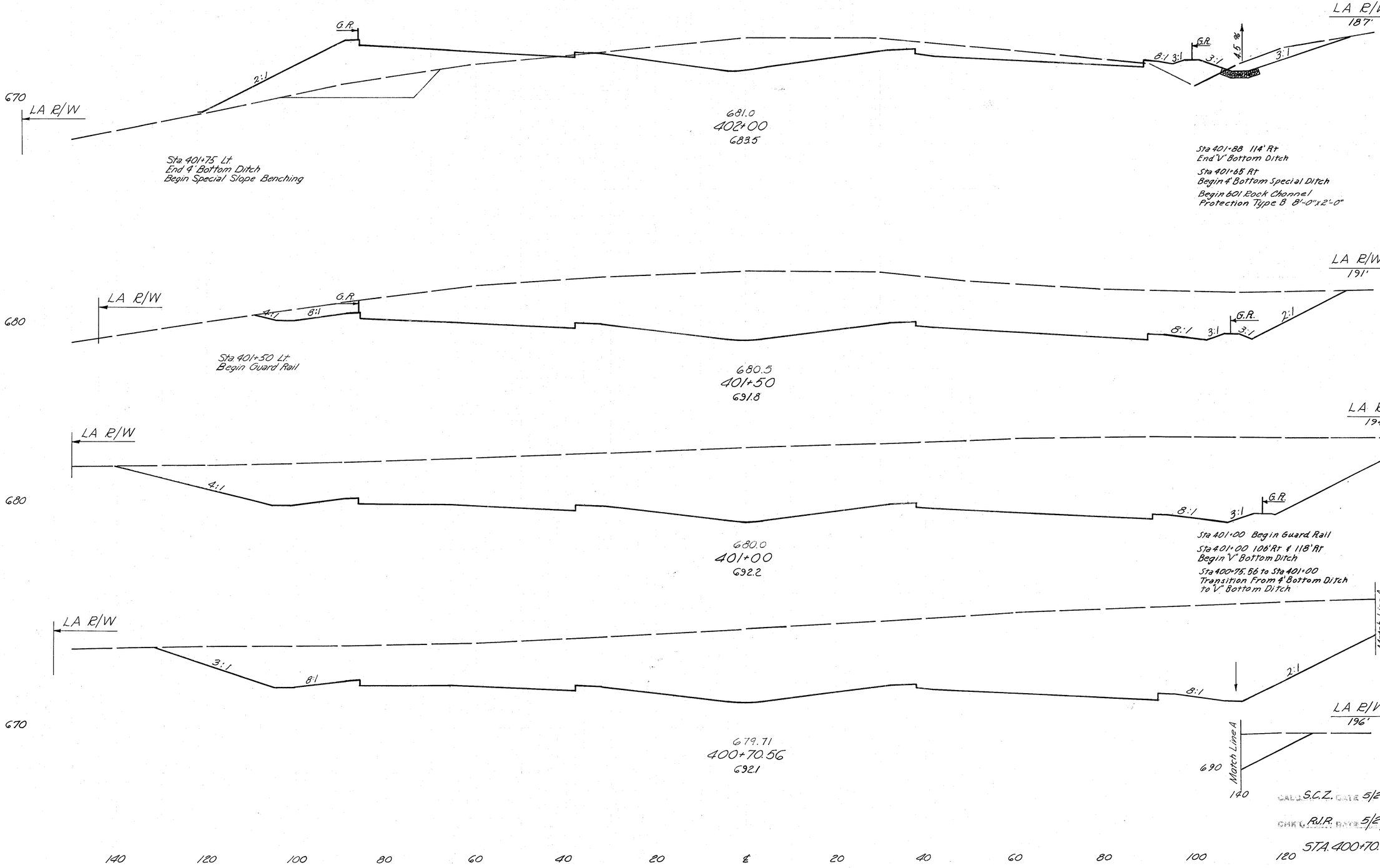
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

161
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
580	527		
		2667	488
2300	0		
		5531	0
3674	0		
		3993	0
3761	0		
		10631	0

CALC. S.C.Z. DATE 5/20/68

CHK'D R.J.R. DATE 5/21/68

STA. 400+70.56 ~ STA. 402+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

162
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA R/W 240'
2:1
Match Line B
650
640
150
180
G.R.
2:1
650
Match Line B

LA R/W 210'
Match Line A
650
150
180
G.R.
650
Match Line A

681.75
402+75
662.8

Sta 402+50 27.5' Lt.
604 Std. No 4 C.B.
Rt. Grate = 677.15
Inv. 18" = 679.03
Inv. 6" = 675.50

G.R.
3.5:1
18.9%
3.5:1
668.28
13.4%
LA R/W 180'

G.R.
4:1
13.4%
4:1
Inv. 671.67
HW-E
671.63
603 118"x18" Conduit Type B Cl. B Bedding @ 200%
13.0%
LA R/W 182'

681.50
402+50
671.1

G.R.
2:1
LA R/W 190'
650

G.R.
8:1 3:1
3:1
13.0%
4:1
4.5%
LA R/W 186'

681.25
402+25
678.7

End Area		Volume	
Cut	Fill	Cut	Fill
319	6113		
		315	4638
361	3907		
		283	2610
251	1732		
		385	1046

DES. S.C.Z. DATE 5/29/68
CHK'D B.J.R. DATE 5/21/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 402+25 - STA. 402+75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

163
638

CLERMONT COUNTY
CLE.-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

164
638

CLERMONT COUNTY
CLE.-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

165
638

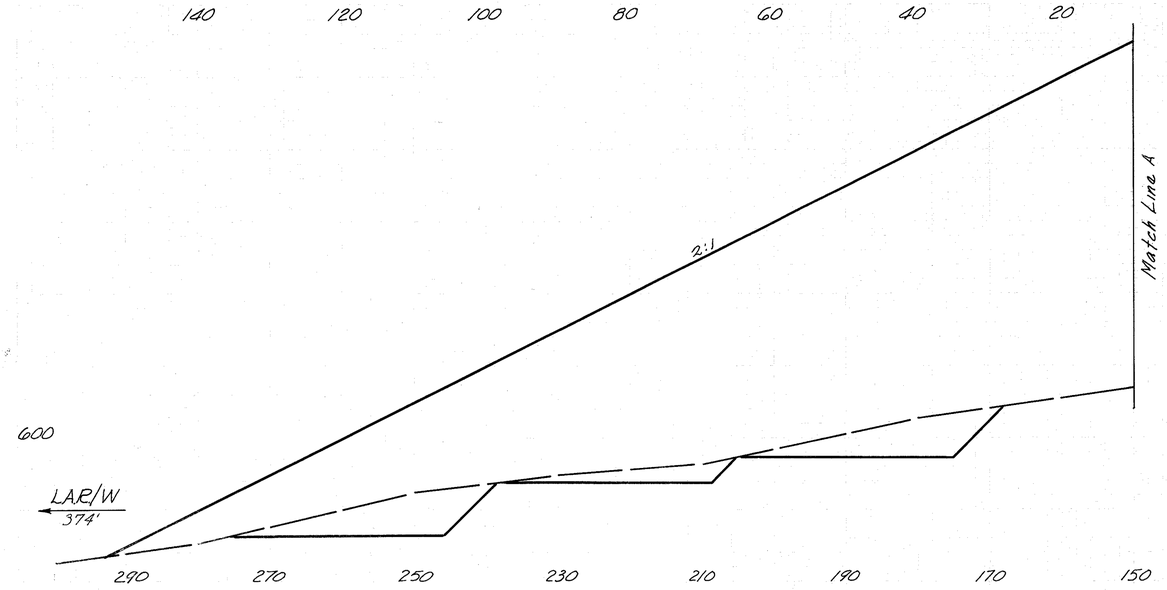
CLERMONT COUNTY
CLE.-275-6.68

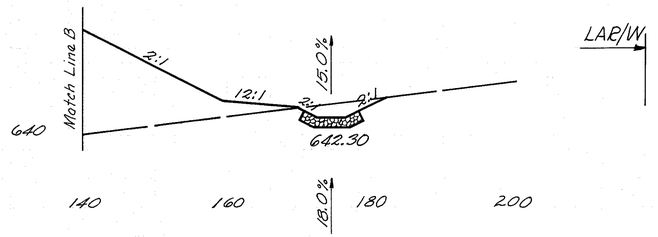
End Area		Volume	
Cut	Fill	Cut	Fill

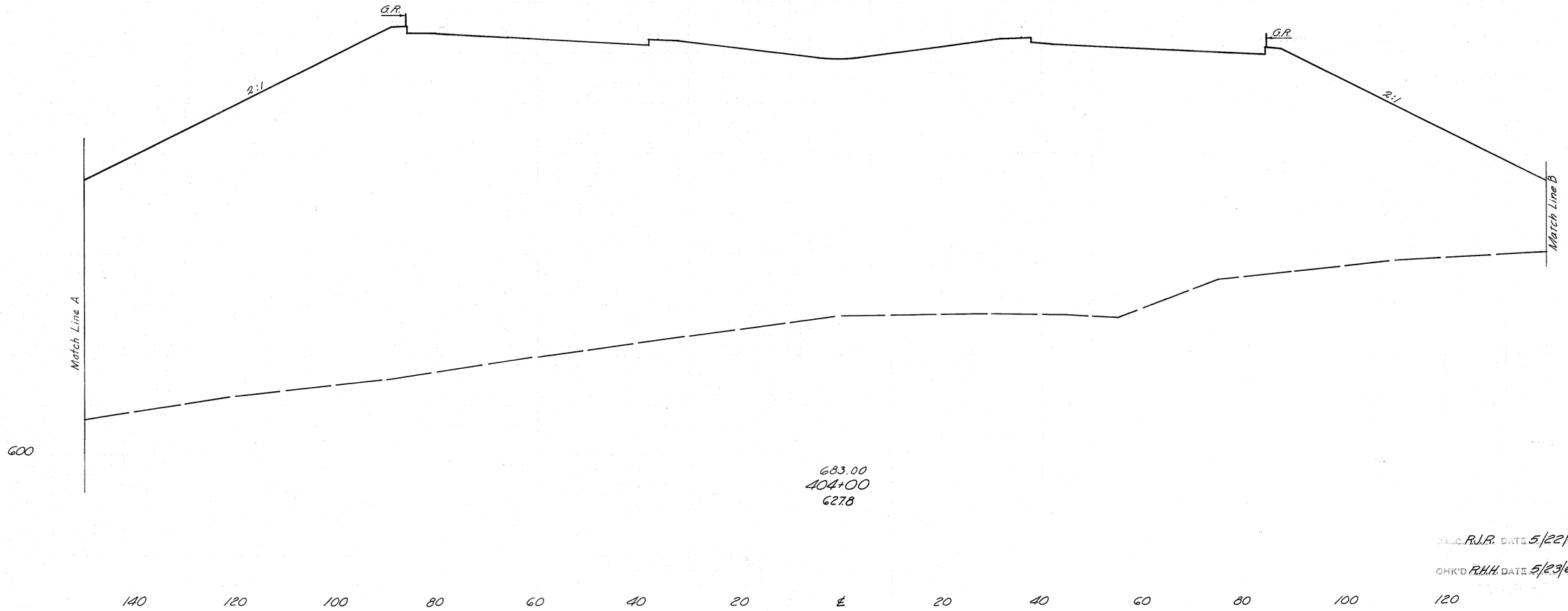
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

166
658

CLERMONT COUNTY
CLE-275-6.68







End Area		Volume	
Cut	Fill	Cut	Fill
323	18775		
		267	16049

DR. C. R.J.R. DATE 5/22/68

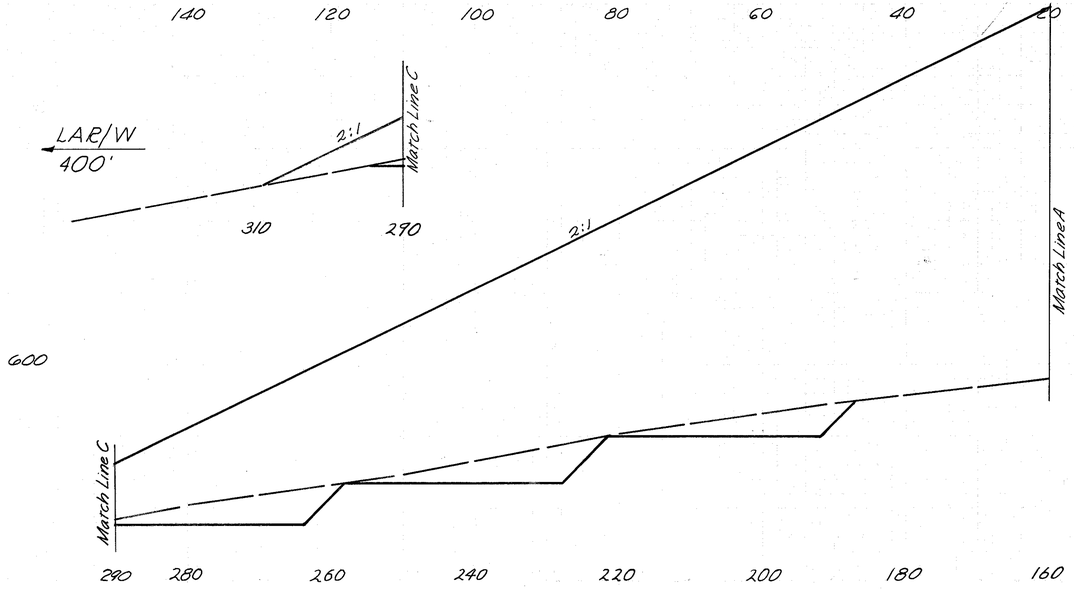
CHK'D R.H.H. DATE 5/23/68

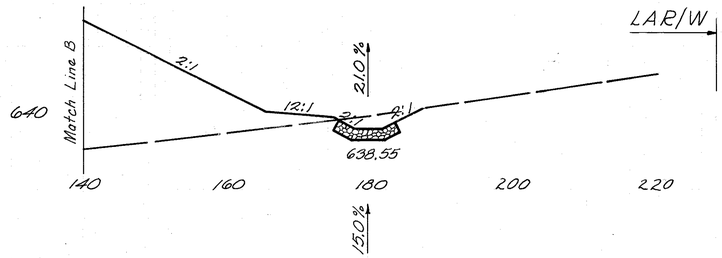
STA. 404+00

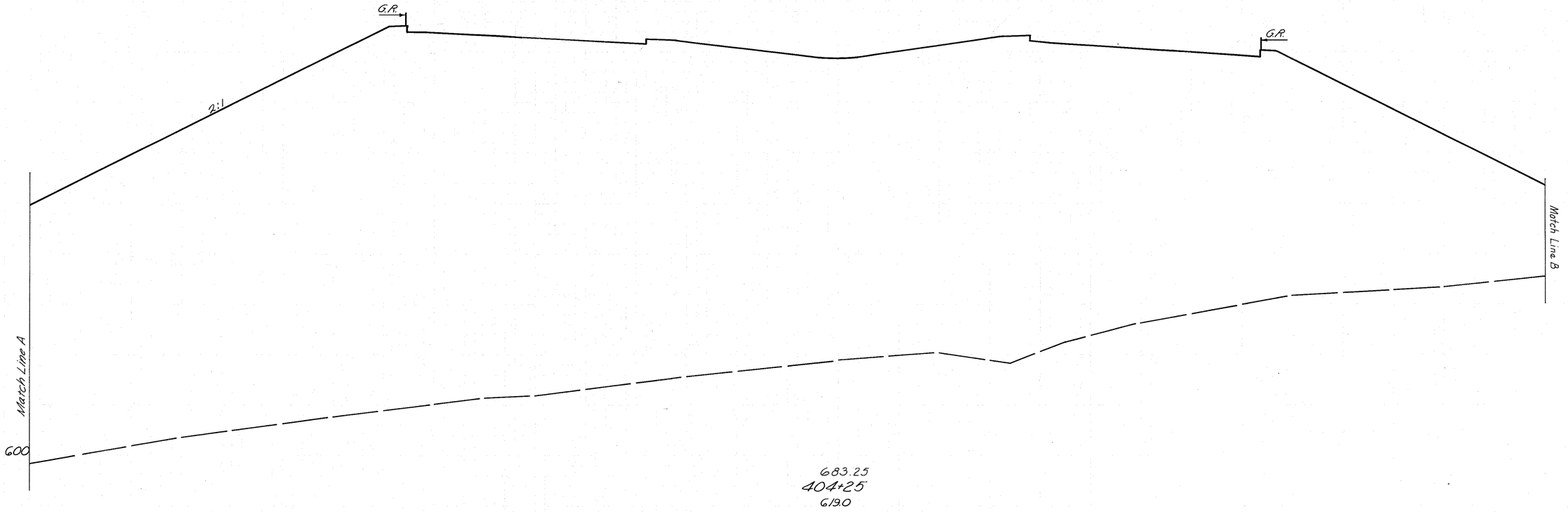
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

167
6.38

CLERMONT COUNTY
CLE.-275-6.68







End Area		Volume	
Cut	Fill	Cut	Fill
288	21,695		
		283	18734

DES. R.W.R. DATE 5/22/68
CHK'D R.H.H. DATE 5/23/68

STA. 404+25

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

168
638

CLERMONT COUNTY
CLE-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill
238	16160		
250	21342		

260 240 220 200 180 160 140 120 100 80 60 40 20 ℄

LA.R/W
437'

2:1

Match Line

580

320 300 280 260

640

600

2:1

G.R.

Match Line

683.50
(Left Side Only) 404+50
611.2

Note: From Sta. 404+50 to Sta. 410+50
All 203 Earthwork Volumes For
The Left & Right Sides Are
Carried On Left Sections Only.

Earthwork Areas Shown Are Only
For That Sheet.

DRAWN R.J.R. 5/22/68

CHKD R.H.H. DATE 5/23/68

260 240 220 200 180 160 140 120 100 80 60 40 20 ℄

(Left Side Only) STA. 404+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

169
638

CLERMONT COUNTY
CLE-275-6.68

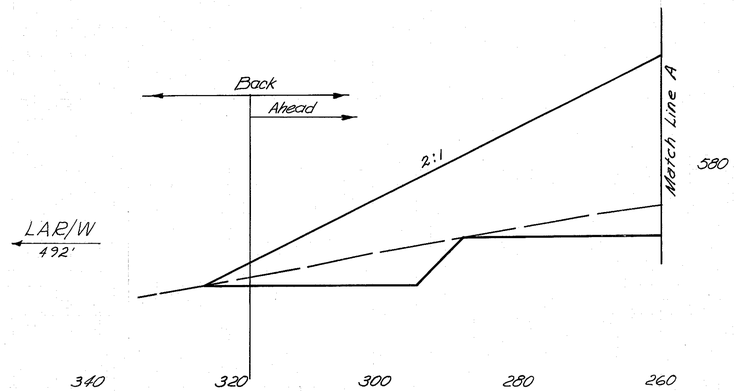
End Area		Volume	
Cut	Fill	Cut	Fill

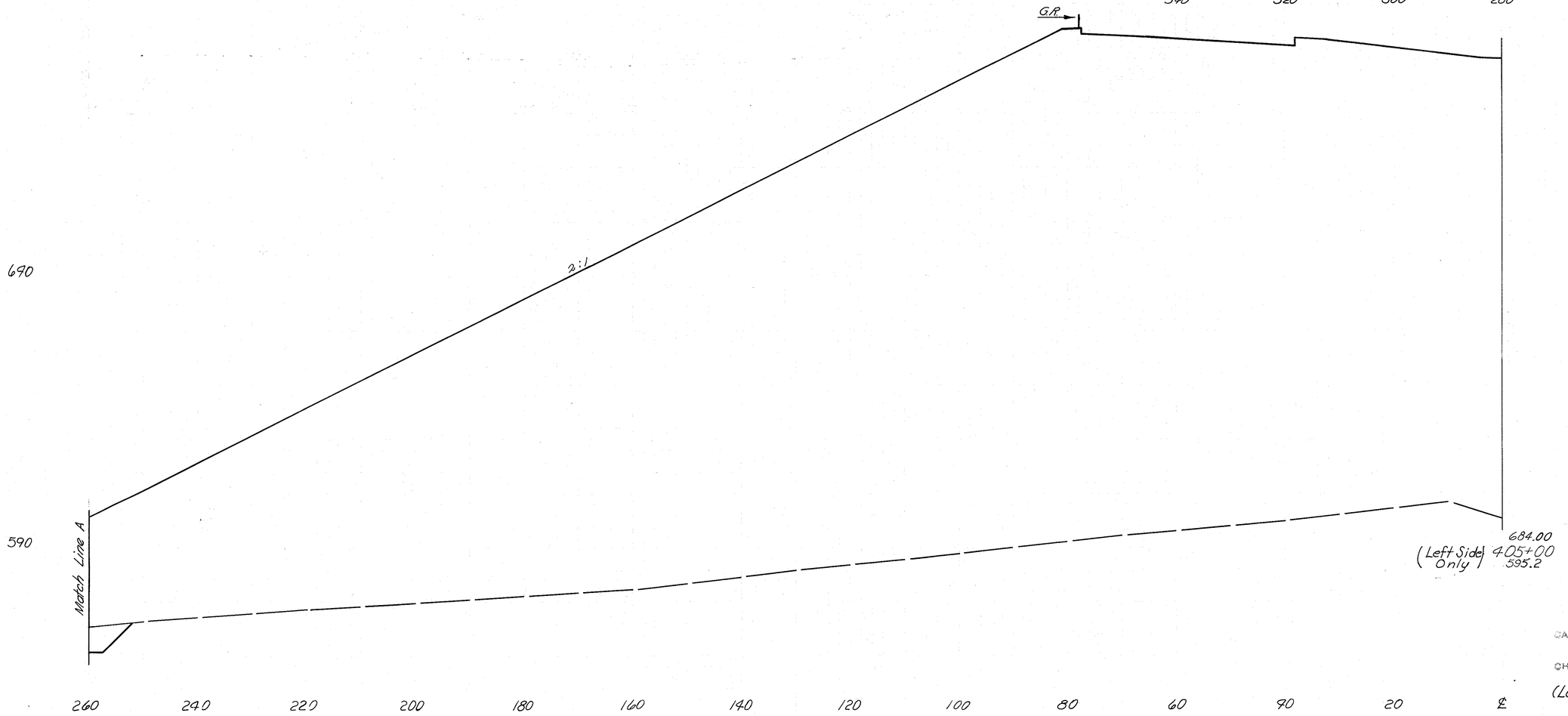
FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

170
638

CLERMONT COUNTY
CLE.-275-6.68

	End Area		Volume	
	Cut	Fill	Cut	Fill
Ahead	192	18764		
Back	196	18773		
			417	49952





CALC. R.J.R. DATE 5/22/68

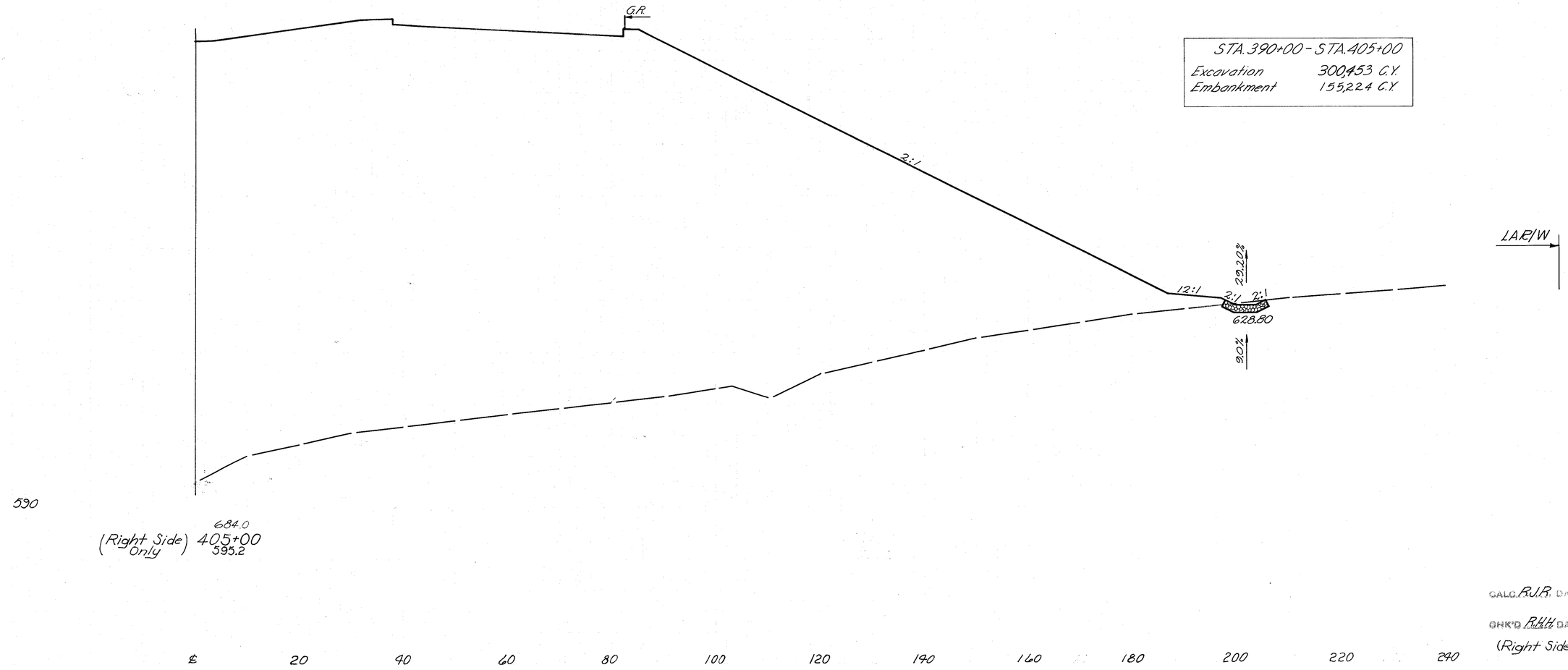
CHK'D R.H.H. DATE 5/23/68

(Left Side Only) STA. 405+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

171
638

CLERMONT COUNTY
CLE.-275-6.68



STA. 390+00 - STA. 405+00

Excavation	300,453 C.Y.
Embankment	155,224 C.Y.

End Areas		Volume	
Cut	Fill	Cut	Fill
2	10766		

CALC. R.J.R. DATE 5/22/68

CHK'D R.H.H. DATE 5/23/68

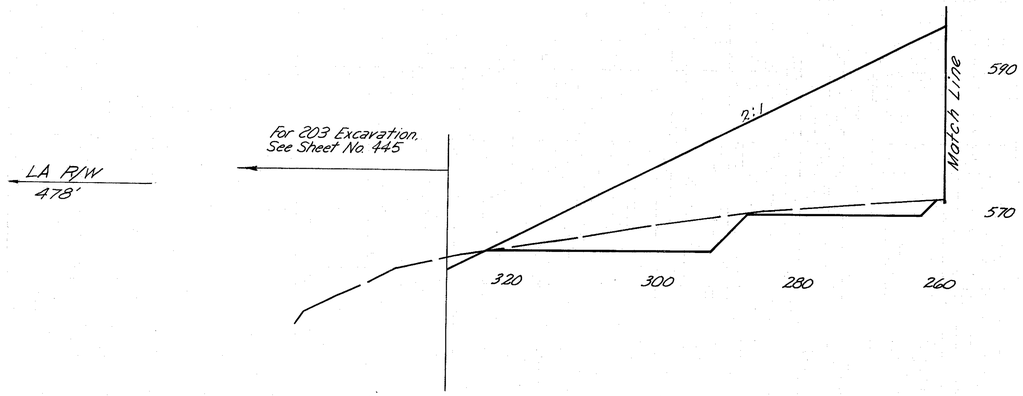
(Right Side Only) STA. 405+00

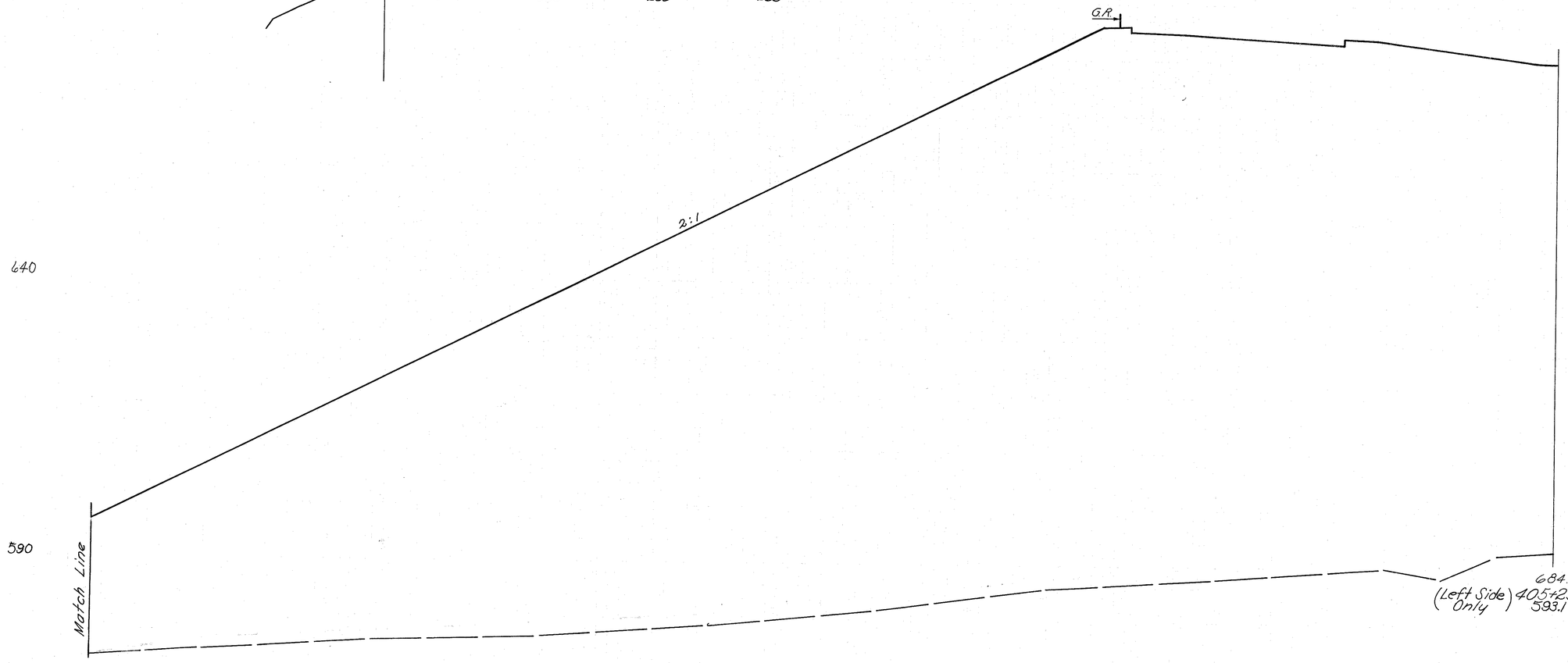
260 240 220 200 180 160 140 120 100 80 60 40 20 ℄

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

172
638

CLERMONT COUNTY
CLE.-275-6.68





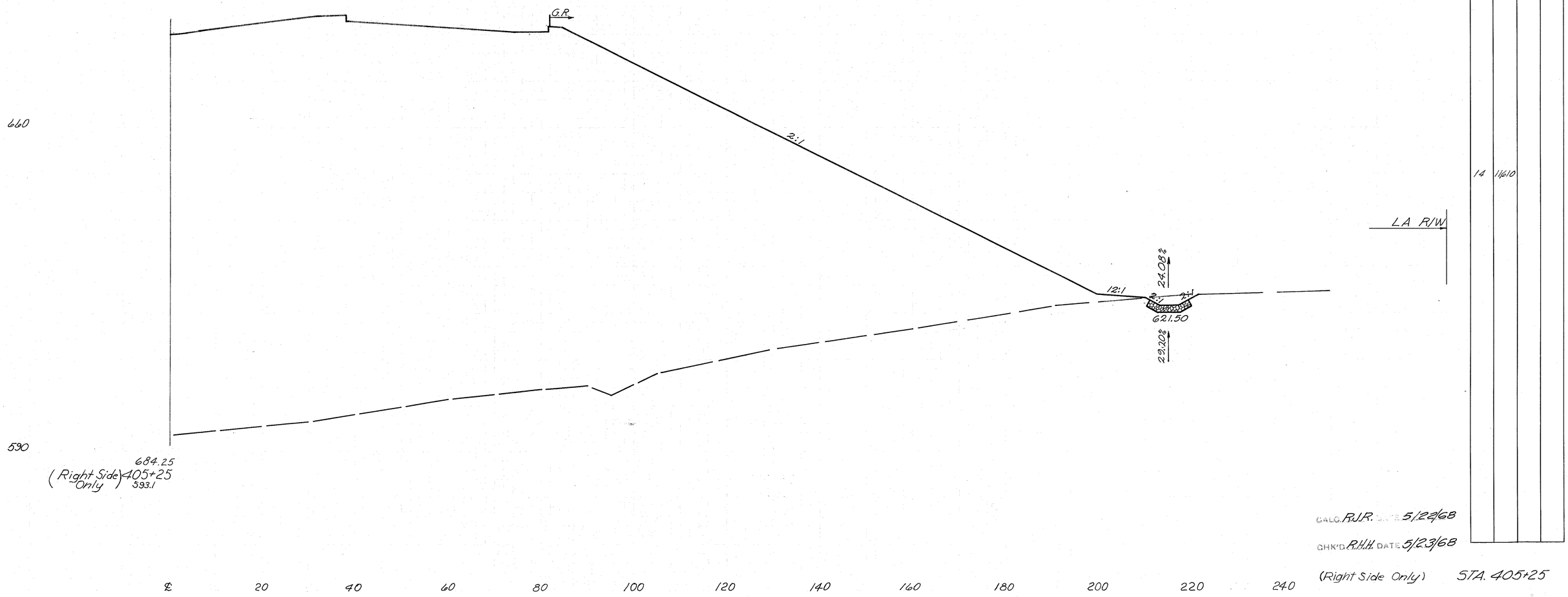
End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

173
638

CLERMONT COUNTY
CLE-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill
	14		11610



CALC. RJR. DATE 5/22/68

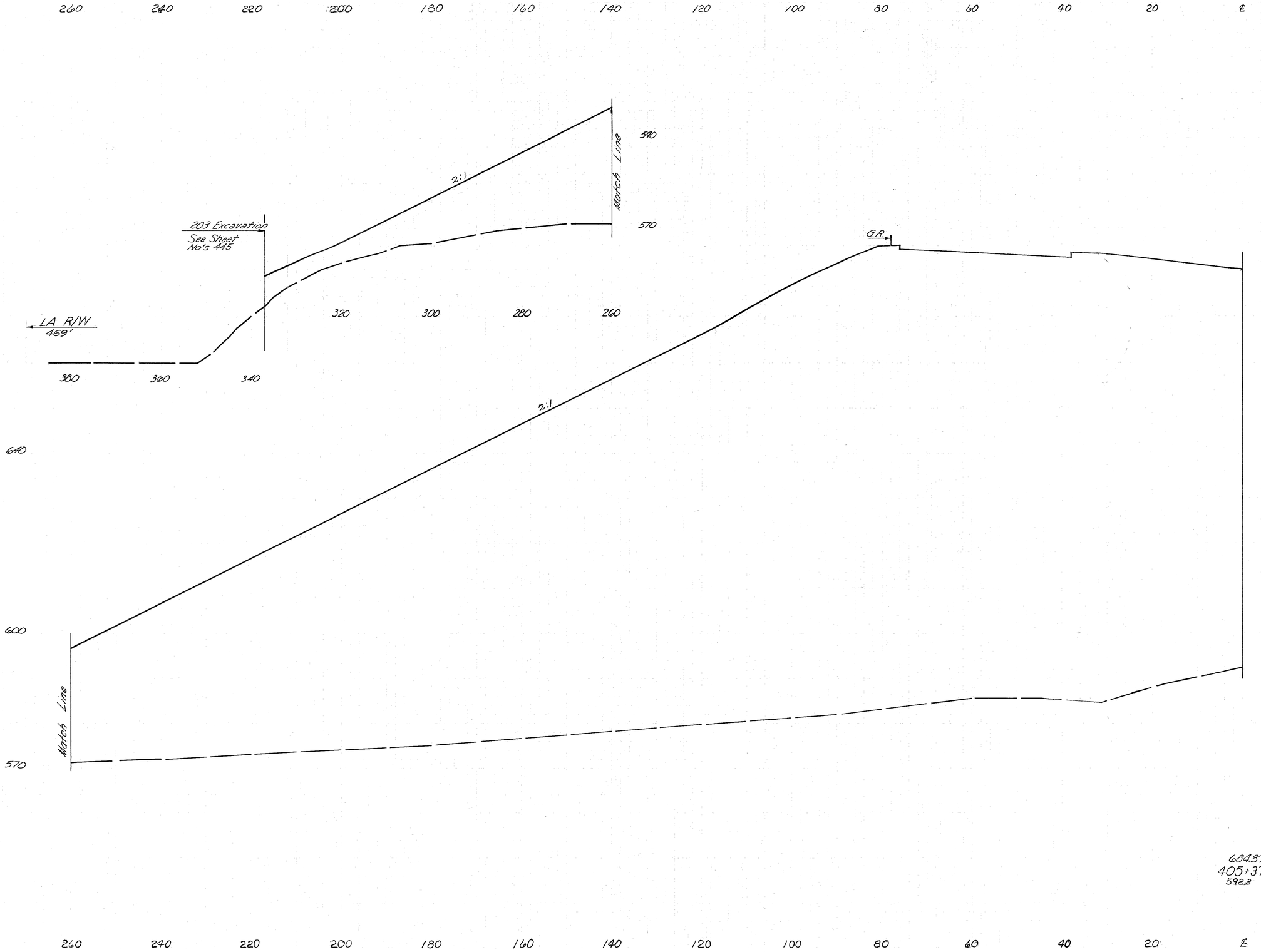
CHK'D. RHH. DATE 5/23/68

(Right Side Only) STA. 405+25

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

174
638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

175
658

CLERMONT COUNTY
CLE.-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

176
238

CLERMONT COUNTY
CLE.-275-6.68

260 240 220 200 180 160 140 120 100 80 60 40 20 ℄

590

570

Match Line

2:1

Sta 405+50
Begin Special 4' Bottom Ditch
Begin 601. Rock Channel Protection Type B 8'X2'-0"

LA R/W
463'

300 280 260

380 360 340 320

G.R.

2:1

640

600

580

Match Line

(Left Side Only) 684.50 405+50 588.5

End Area		Volume	
Cut	Fill	Cut	Fill
0	21481		
		1	14187

DES. RJR DATE 5/22/68

CHK'D RJR DATE 5/23/68

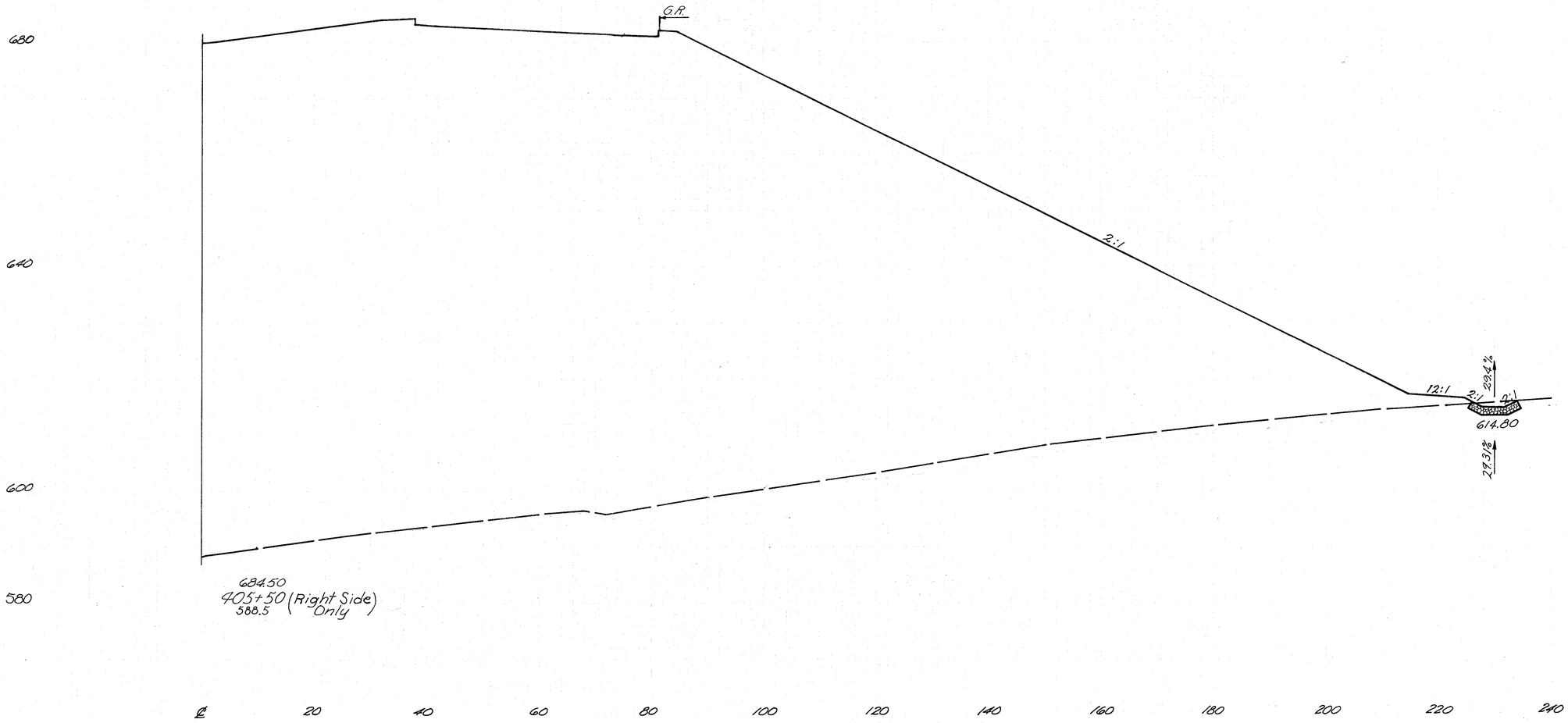
260 240 220 200 180 160 140 120 100 80 60 40 20 ℄

(Left Side Only) STA. 4

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

177
638

CLERMONT COUNTY
CLE.-275-6.68

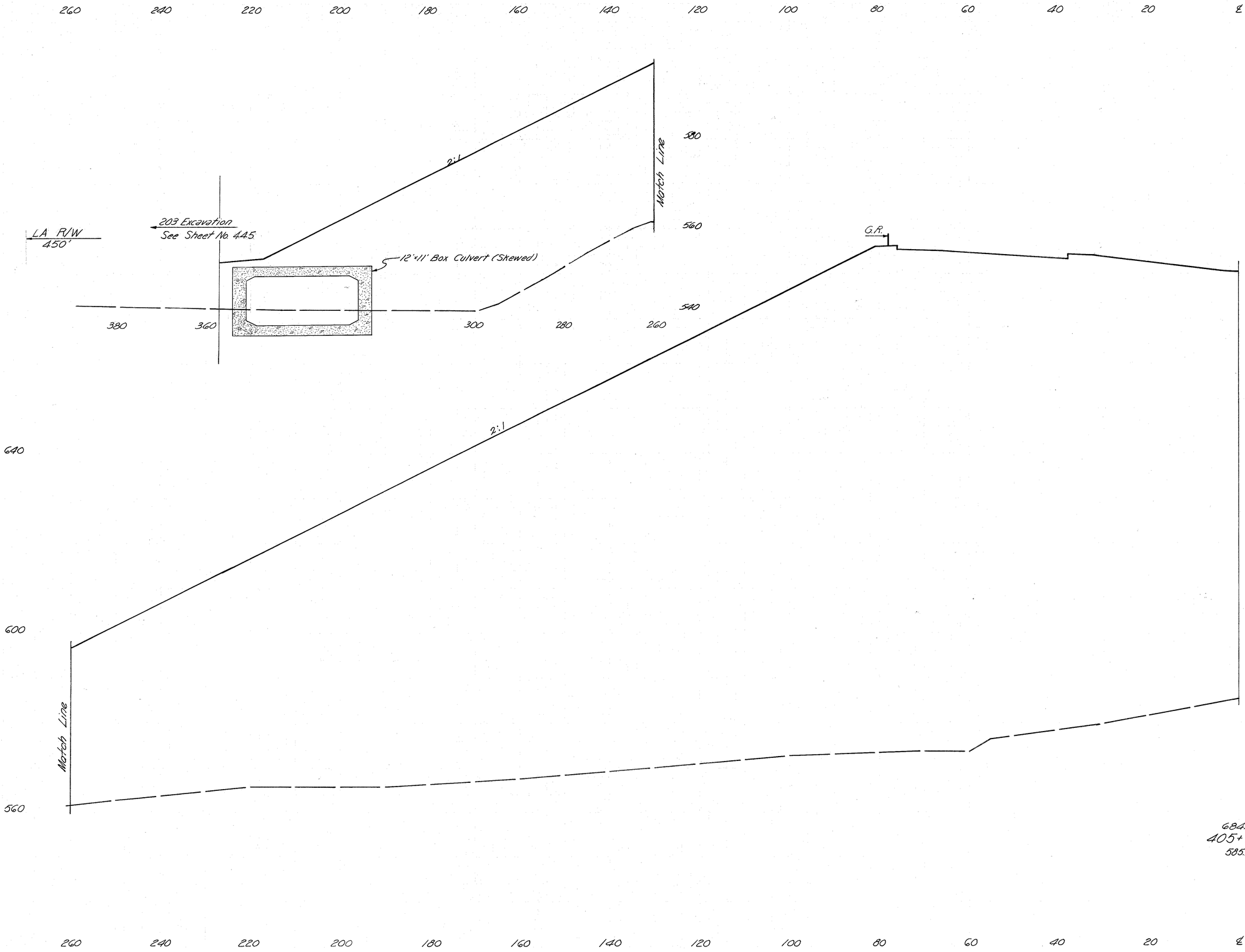


End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

178
638

CLERMONT COUNTY
CLE.-275-6.68



End Areas		Volume	
Cut	Fill	Cut	Fill
0	24362		
		15	33973

684.75
405+75
585.1
(Left Side Only)

CALC. RJR DATE 5/22/68

CHK'D. RWH DATE 5/23/68

(Left Side Only) STA. 405+75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

179
638

CLERMONT COUNTY
CLE.-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill
	29		145
	14		

℄ 20 40 60 80 100 120 140 160 180 200 220 240

680

640

600

560

G.R.

2:1

LA R/W
295'

12:1

2:1

2:1

20.6%

23.4%

607.45

(Right Side Only) 684.75
405+75
585.1

CALC. RJR DATE 5/22/68

CHK'D RHH DATE 5/23/68

℄ 20 40 60 80 100 120 140 160 180 200 220 240 260 (Right Side Only) STA. 405+75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

180
638

CLERMONT COUNTY
CLE.-275-6.68

260 240 220 200 180 160 140 120 100 80 60 40 20 ℄

680 — LA R/W
436'

203 Excavation
See Sheet No. 445

12'x11' Box Culvert (Skewed)

2:1

Notch Line

580

560

G.R.

360 340 320

640

600

Notch Line

550

2:1

685.00
406+00 (Left Side Only)
578.8

End Area		Volume	
Cut	Fill	Cut	Fill
0	257.99		
		24	37,494

CALC. PJR DATE 5/22/68

CHKD. PHH DATE 5/23/68

(Left Side Only) STA. 406+00

260 240 220 200 180 160 140 120 100 80 60 40 20 ℄

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

(181 / 638)

CLERMONT COUNTY
CLE.-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

182
638

CLERMONT COUNTY
CLE.-275-6.68

260 240 220 200 180 160 140 120 100 80 60 40 20 ℄

LA R/W 425'
Ahead
Back
680
203 Excavation
See Sheet No. 445
2:1
Match Line
580
560
G.R.
380 360 340 320 300 280
2:1
640
600
Match Line
540
5'12'×11' Box Culvert (Skewed)

	End Area		Volume	
	Cut	Fill	Cut	Fill
Ahead	5	26,652		
			13	40,949

685.25
406+25
574.2 (Left Side Only)

CALC. R.J.R. DATE 5/22/68
CHK'D R.N.H. DATE 5/23/68

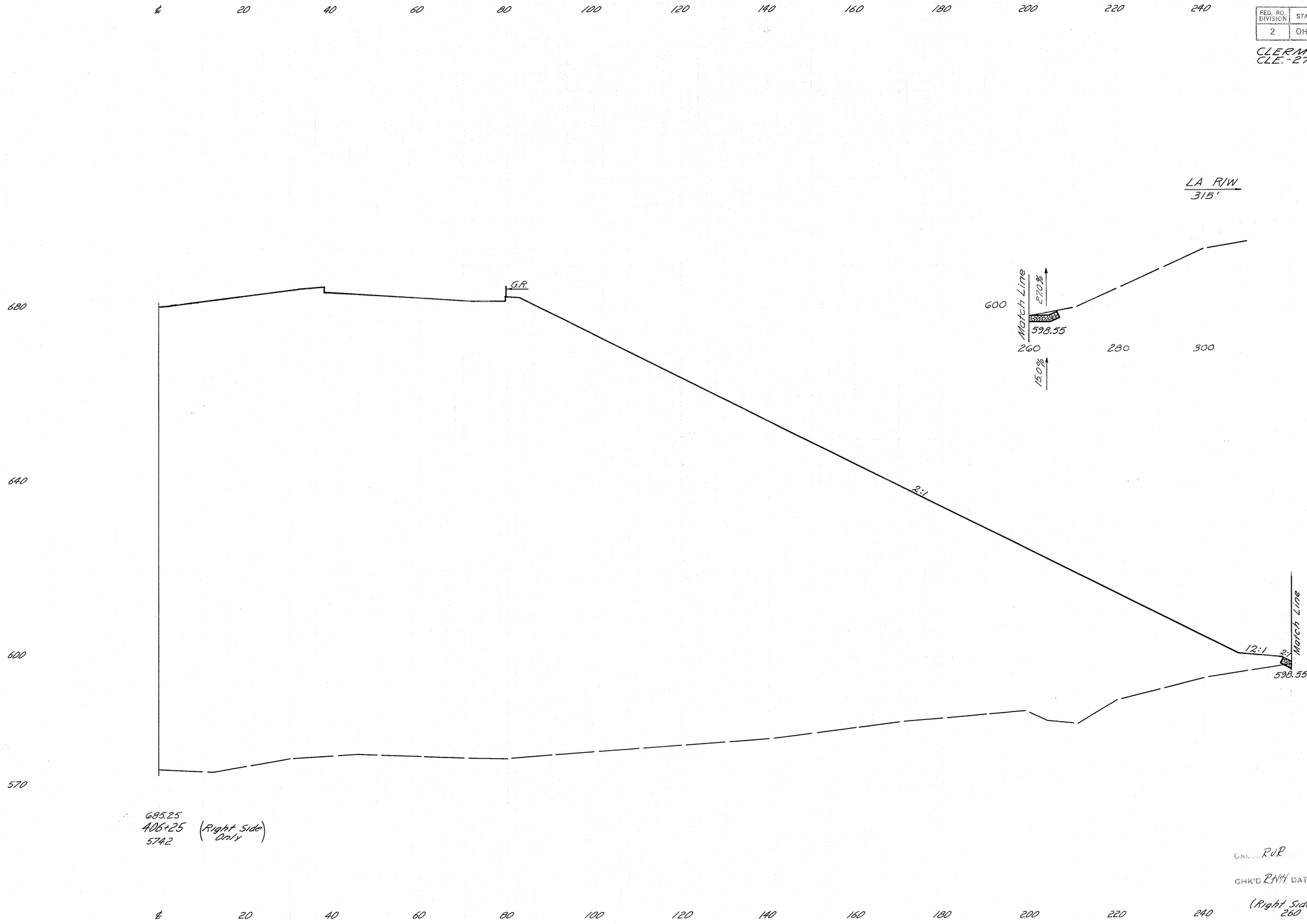
260 240 220 200 180 160 140 120 100 80 60 40 20 ℄

(Left Side Only) STA. 406+25

FED. RO. DIVISION	STATE	PROJECT		
2	OHIO			

183
638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

184
6.38

CLERMONT COUNTY
CLE.-275-6.68

260 240 220 200 180 160 140 120 100 80 60 40 20 ℄

680 LA R/W 413'

16.0%

2:1 2:1 10:1

548.40

6.8%

360 340 320 300 280

640

600

540

580

560

Match Line

Match Line

2:1

G.R.

2:1

5 12'×11' Box Culvert (Skewed)

685.50
406+50
569.8 (Left Side Only)

End Area		Volume	
Cut	Fill	Cut	Fill
12	27202		
		16	43792

DRN'D RJR DATE 5/22/68

CHK'D RHH DATE 5/23/68

(Left Side Only) STA. 406+50

260 240 220 200 180 160 140 120 100 80 60 40 20 ℄

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

185
638

CLERMONT COUNTY
CLE.-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill
15	20.97		

℄ 20 40 60 80 100 120 140 160 180 200 220 240

680
640
600
570

G.R.

2:1

Match Line

685.50
406+50 (Right Side Only)
569.8

LA. R/W
325'

Match Line

12:1

2.0%

2%

590

591.80

260 280 300

27.0%

CALC. RJR 5/22/68

CHKD. JHH DATE 5/23/68

℄ 20 40 60 80 100 120 140 160 180 200 220 240
260

(Right Side Only) STA. 40

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

186
638

CLERMONT COUNTY
CLE.-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill
32	28563		
		84	91622

260 240 220 200 180 160 140 120 100 80 60 40 20 ℄

LA R/W
388'

2:1

Match Line

680

580

560

25.2%

2:1

12:1

16.0%

556.40

340 320 300 280 260

640

2:1

G.P.

600

Match Line

540

12'x11' Box Culvert (Skewed)

686.00
407+00 (Left Side Only)
562.2

260 240 220 200 180 160 140 120 100 80 60 40 20 ℄

DES. RHH. DATE 5/23/68

CK'D LM. DATE 5/24/68

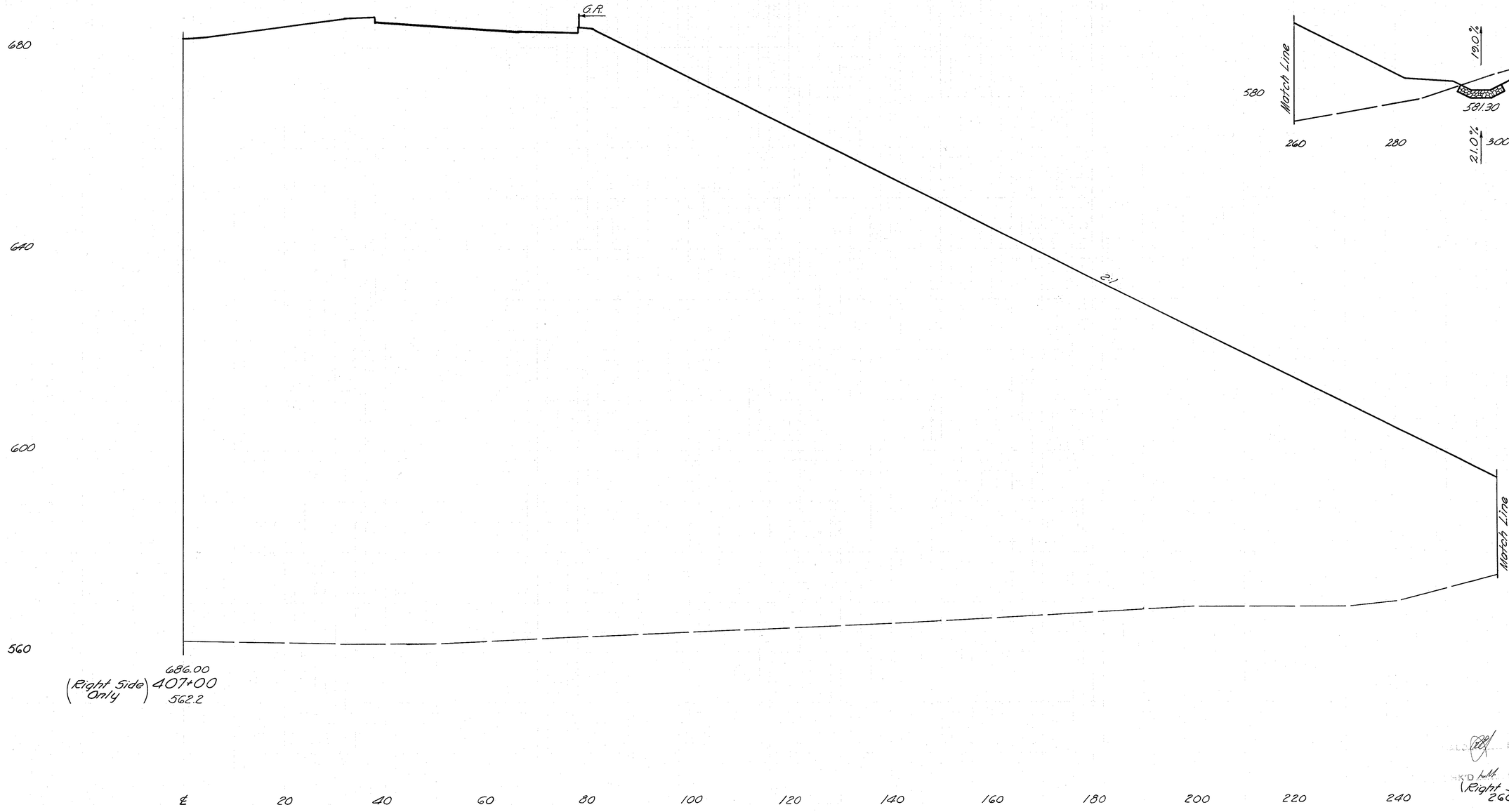
(Left Side Only) STA. 407+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

187
638

CLERMONT COUNTY
CLE.-275-6.68

Sta 407+08
Begin Shoulder Transition



End Area		Volume	
Cut	Fill	Cut	Fill
32	2299		

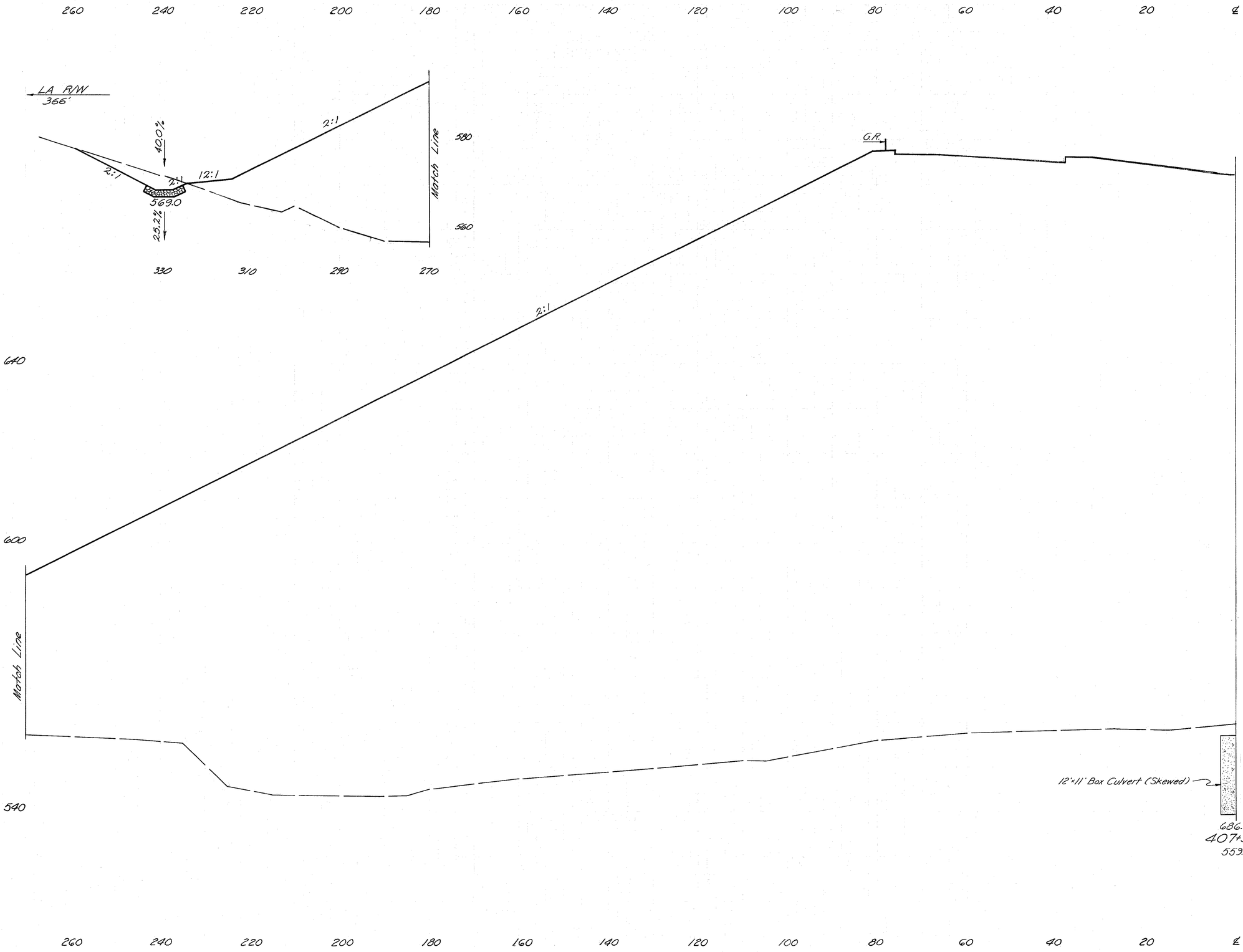
K'D [illegible] DATE 5/23/68

K'D MH DATE 5/23/68

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

188
638

CLERMONT COUNTY
CLE.-275-6.68



	End Area		Volume	
	Cut	Fill	Cut	Fill
203, Excavation not including Embankment Construction Carried from Sheet No. 445			2221	
203, Embankment Carried from Sht. No. 445				1925
	51	28384		
			114	98753

CALC. R.H.H. DATE 5/23/68

CHK'D. L.M. DATE 5/24/68

(Left Side Only) STA. 407+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

189
638

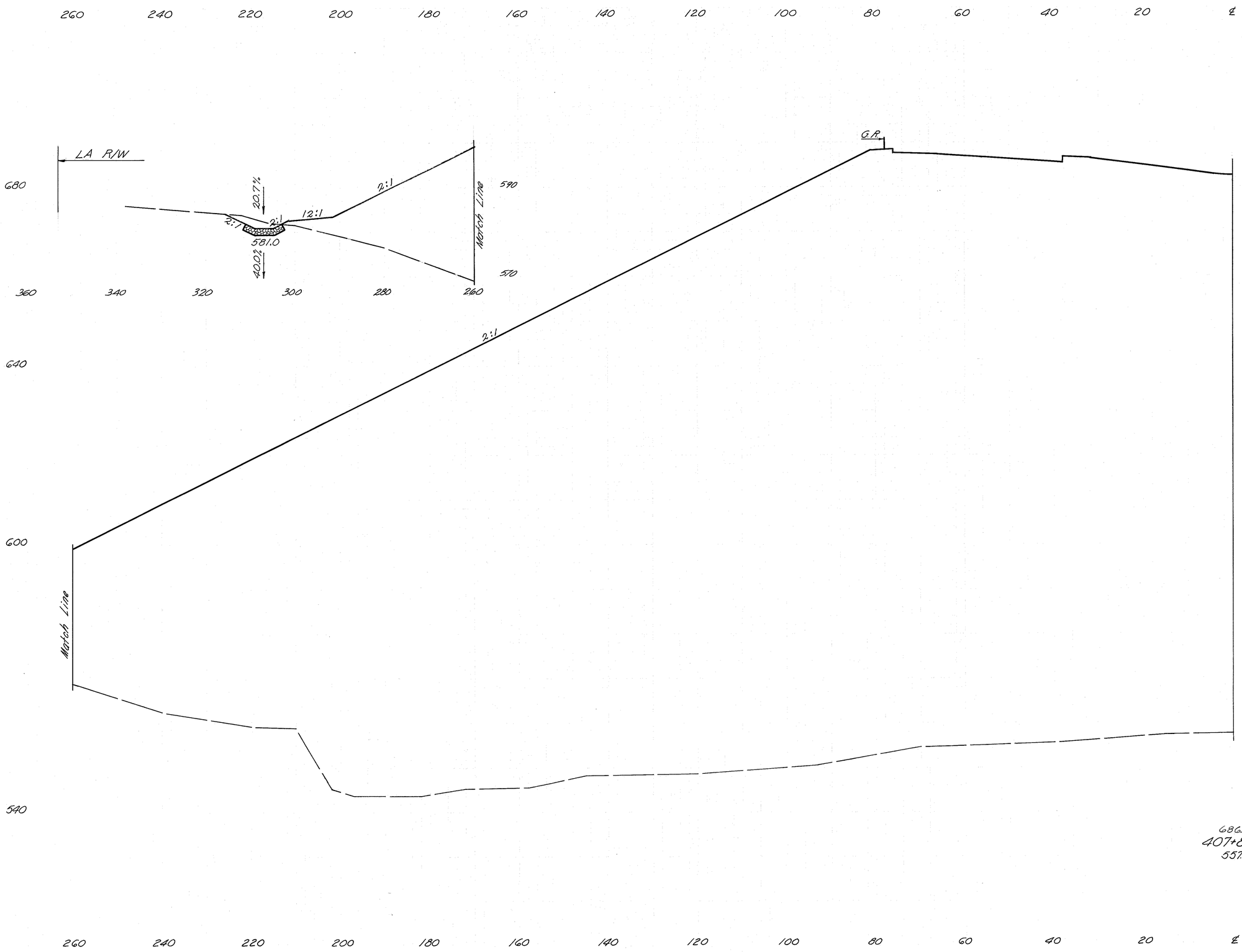
CLERMONT COUNTY
CLE.-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

190/638

CLERMONT COUNTY
CLE.-275-6.68

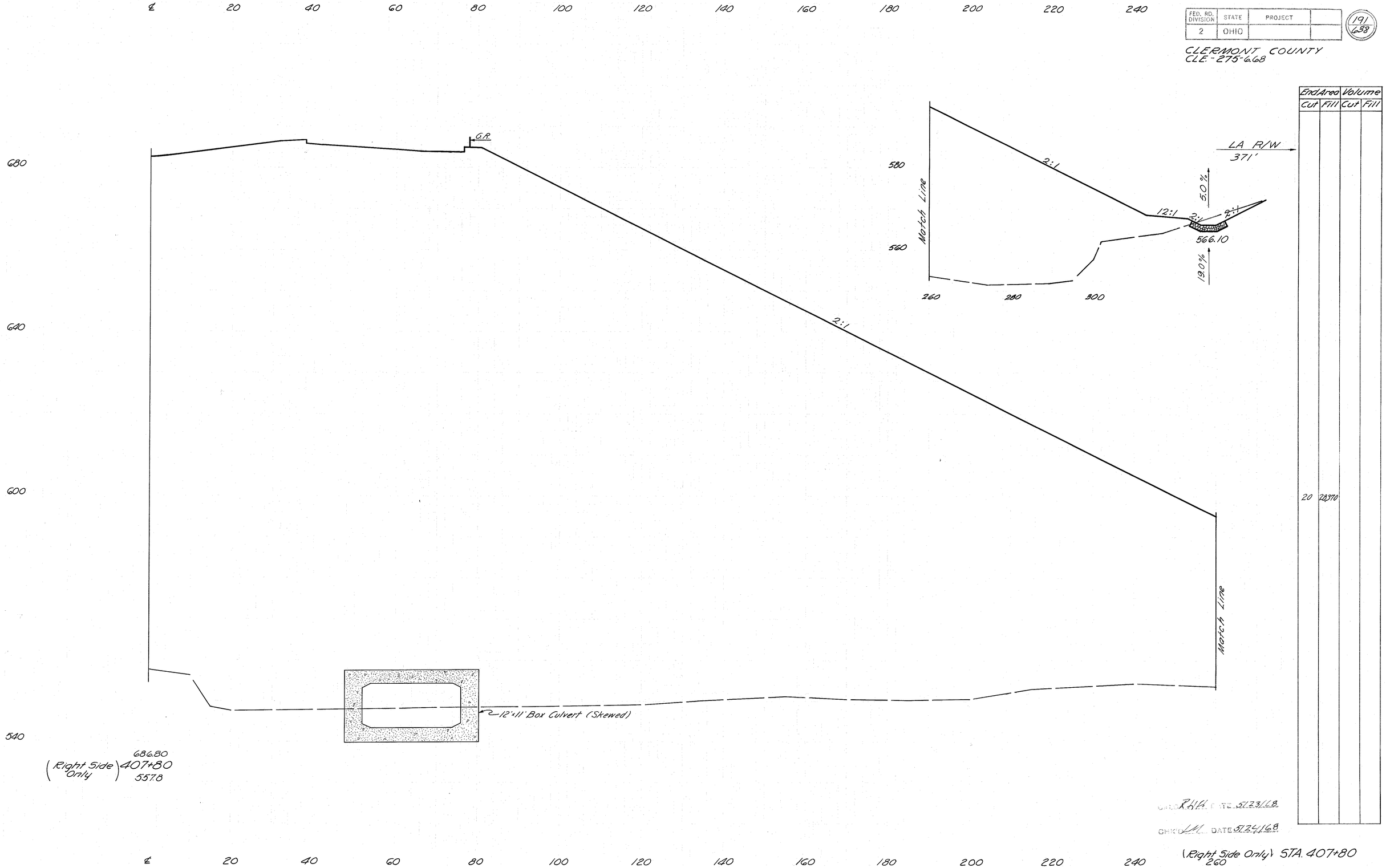


End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

191/638

CLERMONT COUNTY
CLE.-275-6.68



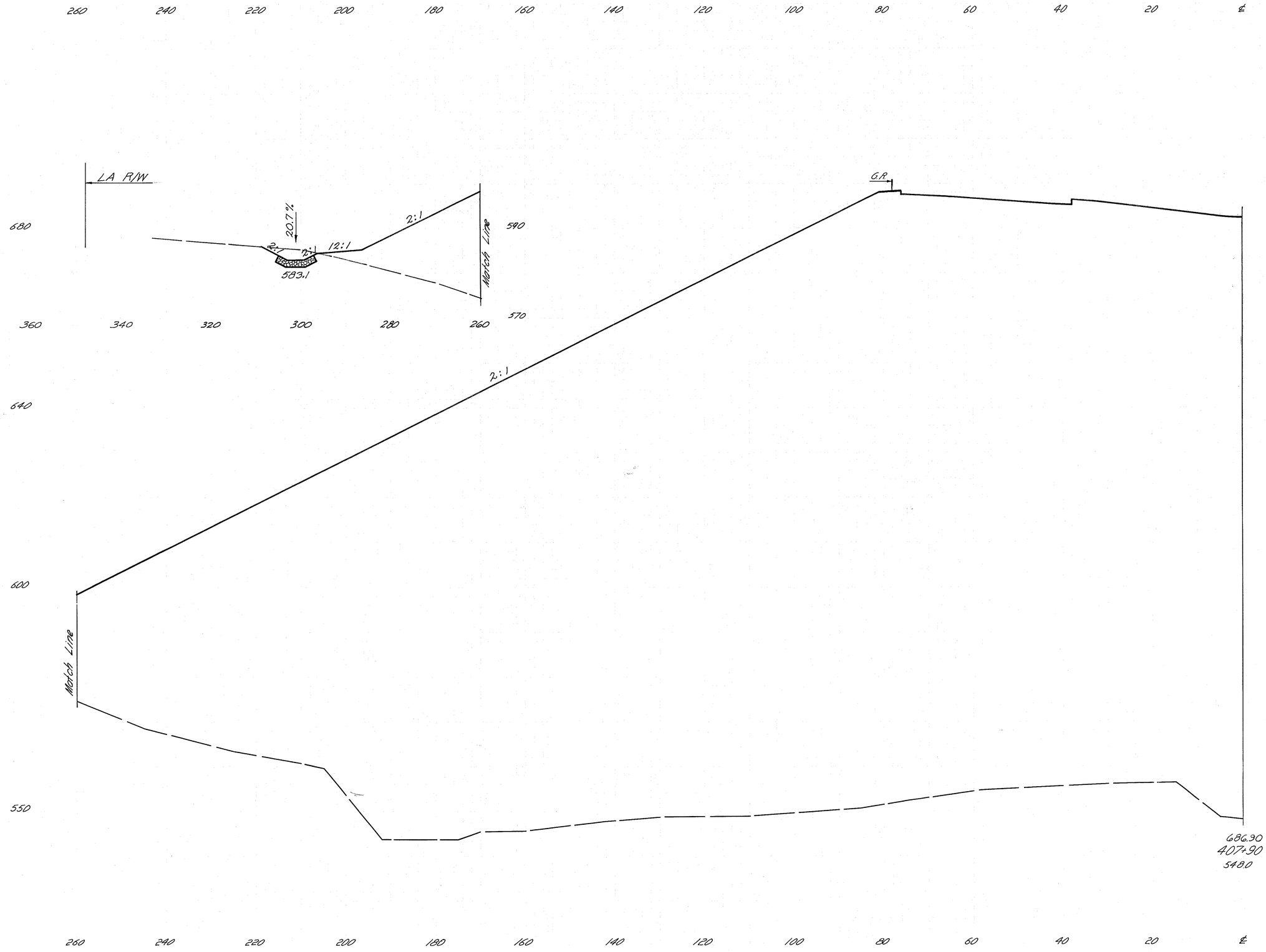
CHKD. RHG DATE 5/23/68

CHKD. LAY DATE 5/24/68

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

192
638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
25	27156		
		32	20628

CALC. R.H.H. DATE 5/23/68

CHK'D LM DATE 5/24/68

(Left side only) STA. 407+90

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

193
638

CLERMONT COUNTY
CLE.-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

194
638

CLERMONT COUNTY
CLE.-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill
25	27,021		
		36	28,432

260 240 220 200 180 160 140 120 100 80 60 40 20 ℄

LA R/W

20.7%

2:1 2:1 12:1 2:1

Match Line

585.20

680 340 320 300 280 260 580

640

600

550

2:1

G.R.

Match Line

687.00
408+00 (Left Side Only)
5968

260 240 220 200 180 160 140 120 100 80 60 40 20 ℄

DWN. R.H.H. DATE 5/23/68

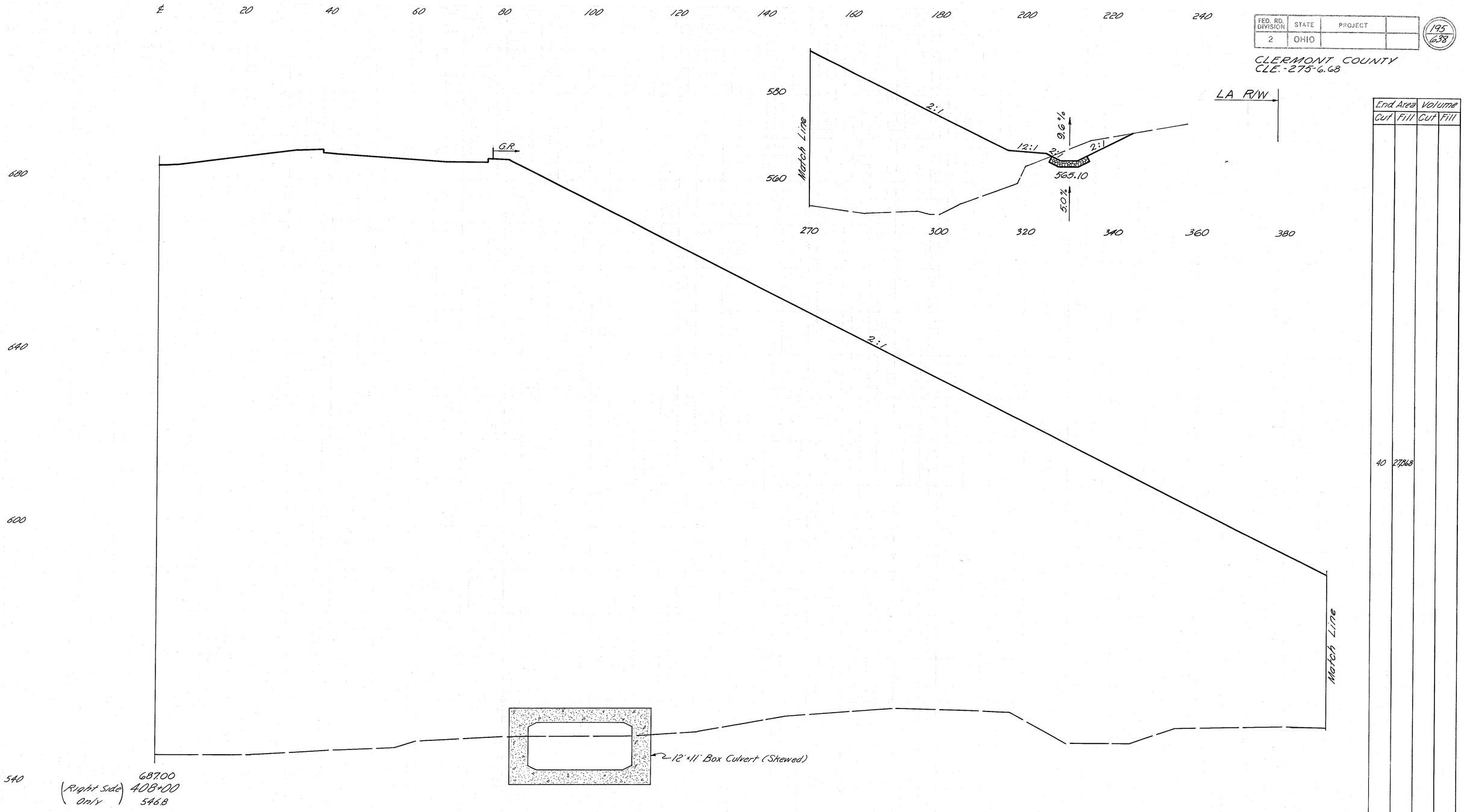
CHK'D L.M. DATE 5/24/68

(Left Side Only) STA. 408+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

195/638

CLERMONT COUNTY
CLE.-275-6.68

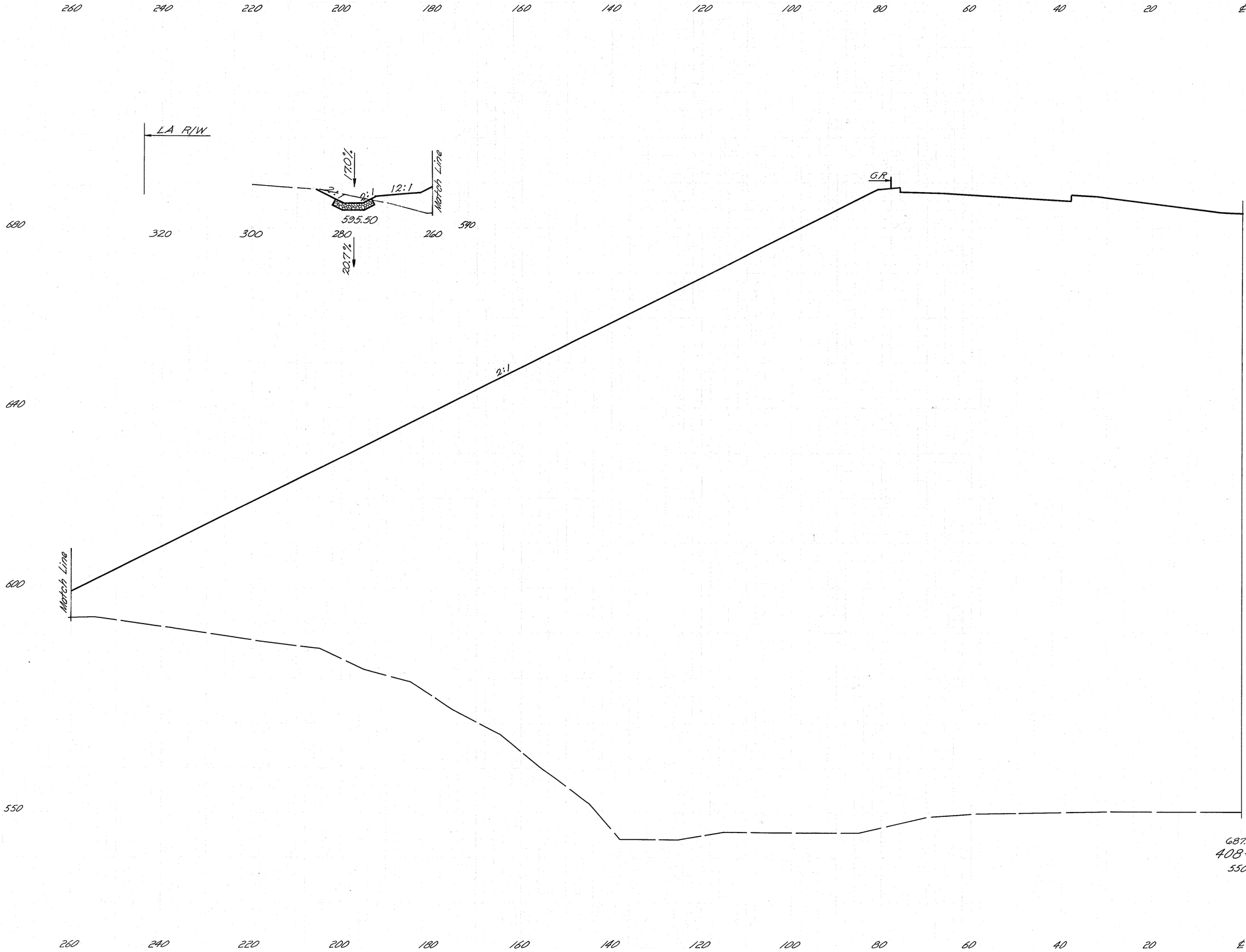


End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

196
638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
21	24,511		
		113	98,581

CALC. R.H.H. DATE 5/23/68

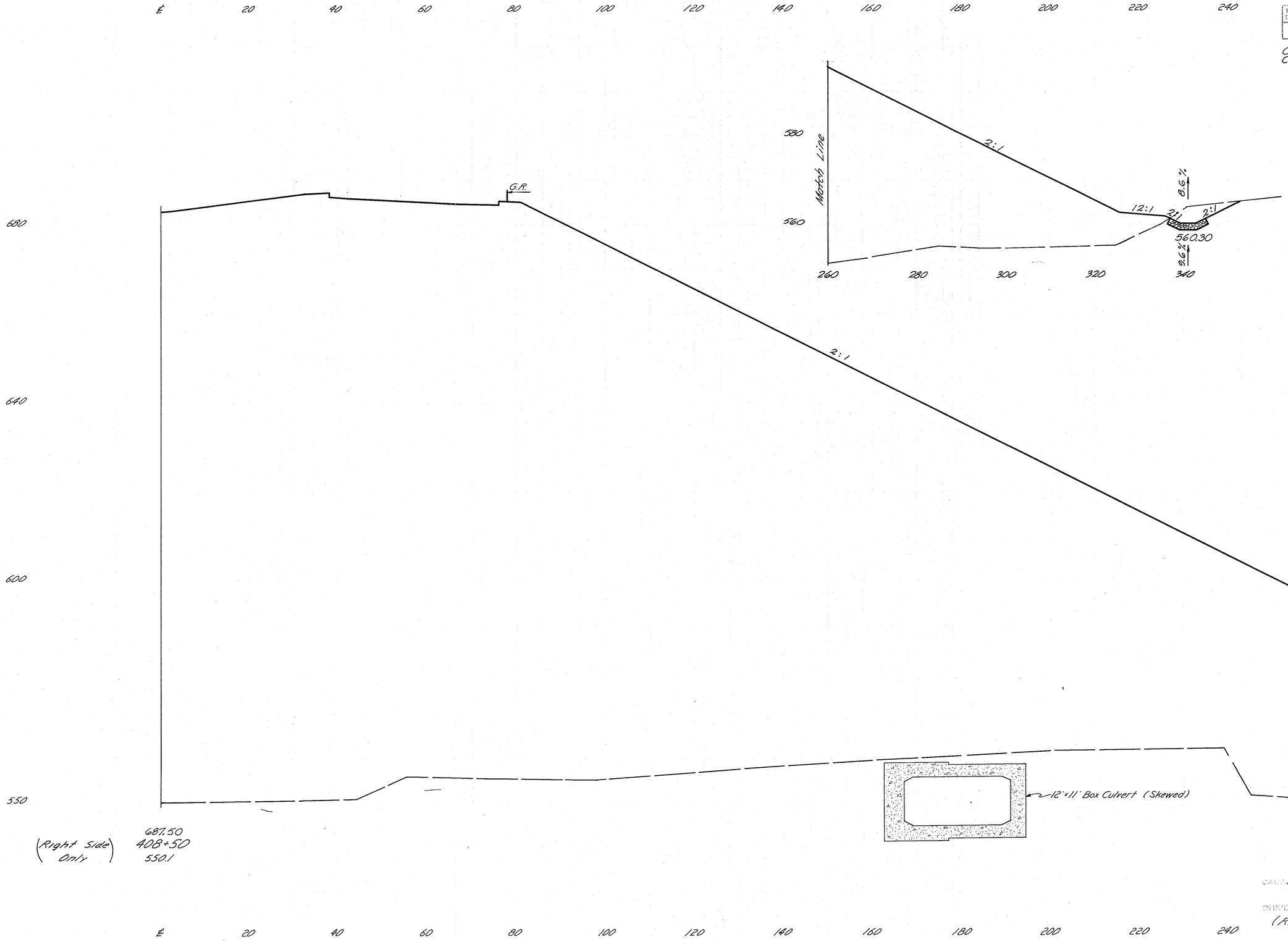
CHK'D L.M. DATE 5/24/68

(Left Side Only) STA. 408+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

197
698

CLERMONT COUNTY
CLE.-275-6.68



LA R/W
393'

End Area		Volume	
Cut	Fill	Cut	Fill
36	27,070		

CALC. R.H.H. 5/23/68

CHKD. L.M. DATE 5/24/68

(Right Side Only) STA. 408+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

198
638

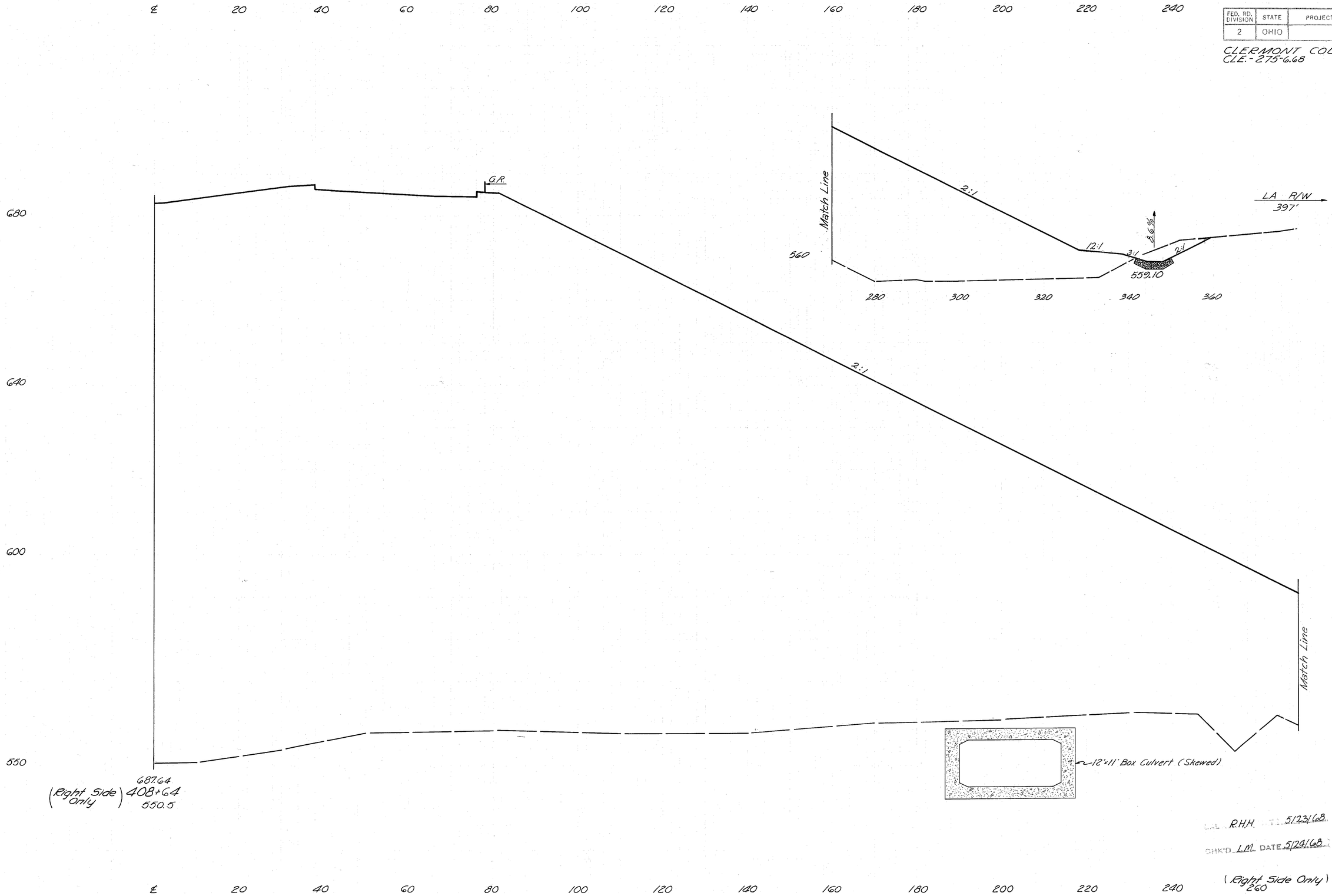
CLERMONT COUNTY
CLE.-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

199
638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

200
#38

CLERMONT COUNTY
CLE.-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill
28	21833		
		21	25531

260 240 220 200 180 160 140 120 100 80 60 40 20 ℄

680
640
600
550

LA R/W
320 300 280 600.3 260
170%
2:1
2:1
Match Line
600

G.R.
2:1
Match Line
1 2:1

687.78
408+78 (Left Side Only)
564.8

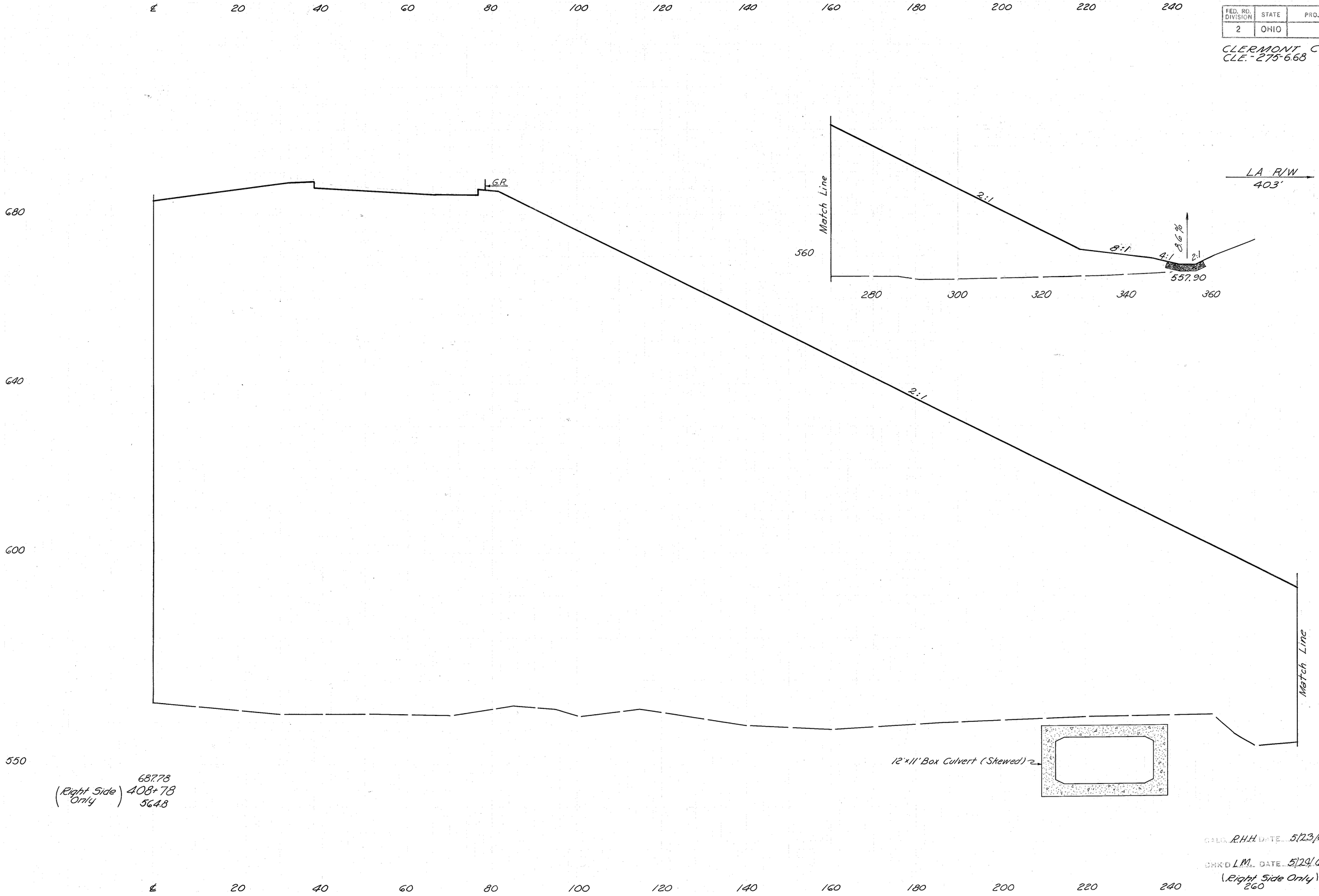
DRAWN R.H.H. DATE 5/23/68
CHK'D L.M. DATE 5/29/68

(Left Side Only) STA. 408+78

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

201/638

CLERMONT COUNTY
CLE.-275-6.68



End Areas		Volume	
Cut	Fill	Cut	Fill
0	26,201		

CALC. R.H.H. DATE 5/23/68

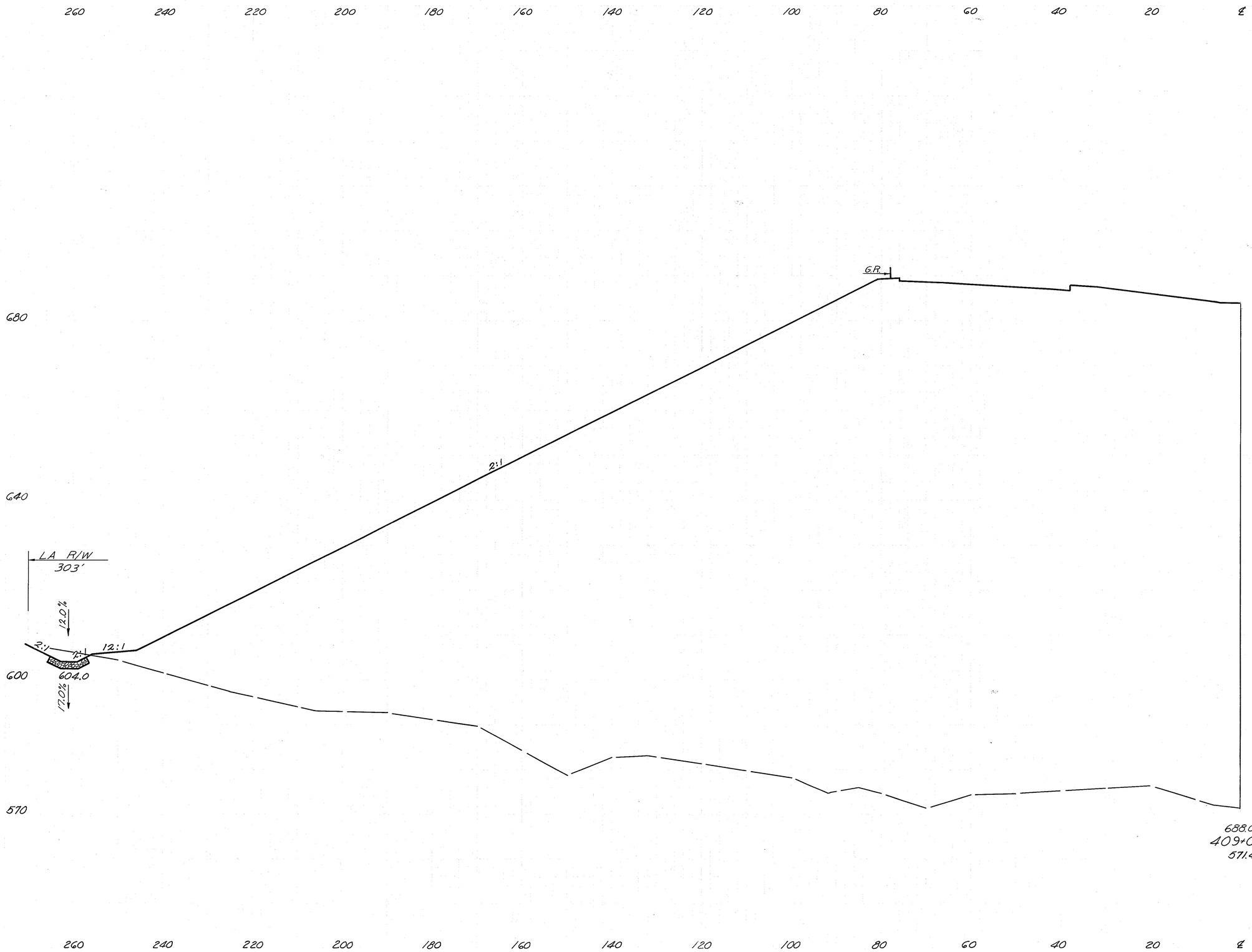
CHK'D L.M. DATE 5/29/68

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

202
238

CLERMONT COUNTY
CLE.-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill
22	19.82		
		20	37.497



CALC. R.H.H DATE 5/23/68

CHK'D L.M. DATE 5/24/68

(Left Side Only) STA. 409+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

203
638

CLERMONT COUNTY
CLE.-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

204
238

CLERMONT COUNTY
CLE.-275-6.68

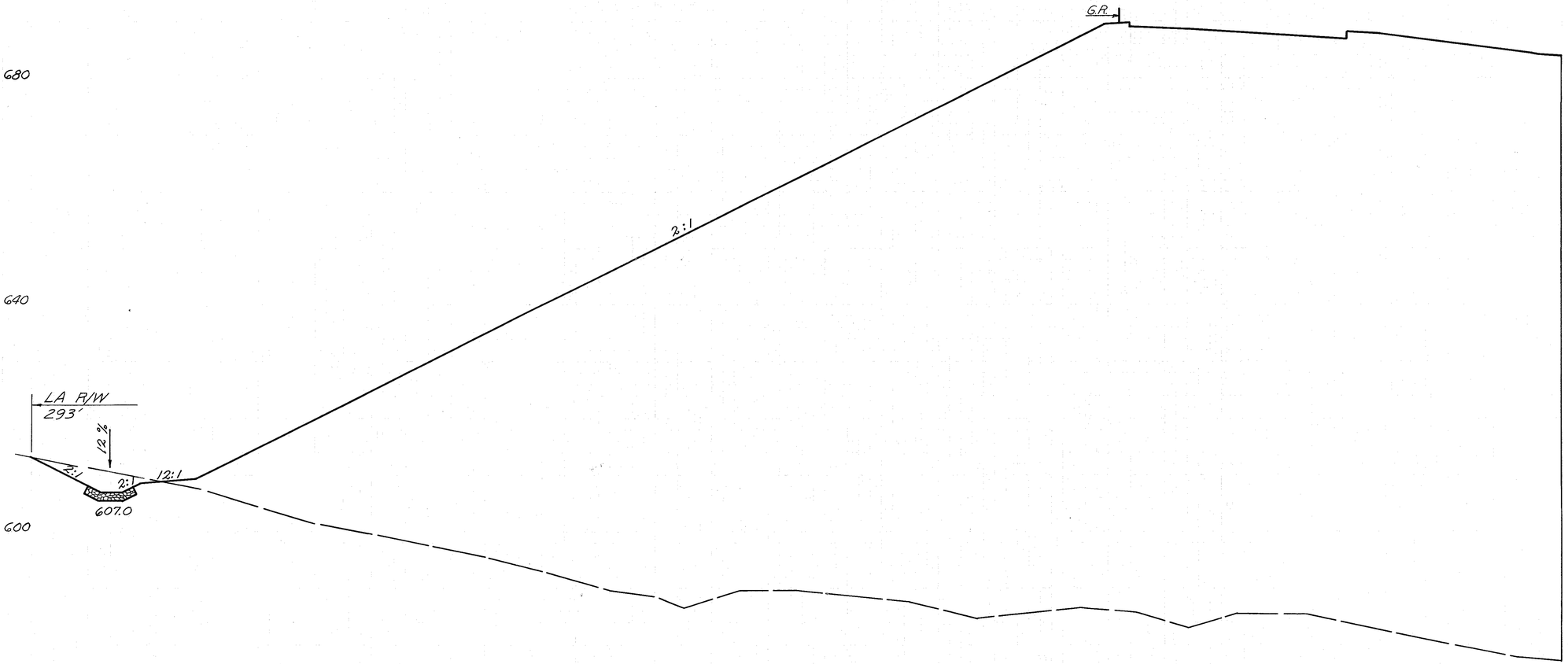
260 240 220 200 180 160 140 120 100 80 60 40 20 ℄

680

640

600

570



End Area		Volume	
Cut	Fill	Cut	Fill
48	17,611		
		86	39,284

68825
409+25 (Left Side Only)
577.0

CALC. R.H.L. DATE 5/29/68

CHKD. L.M. DATE 5/29/68

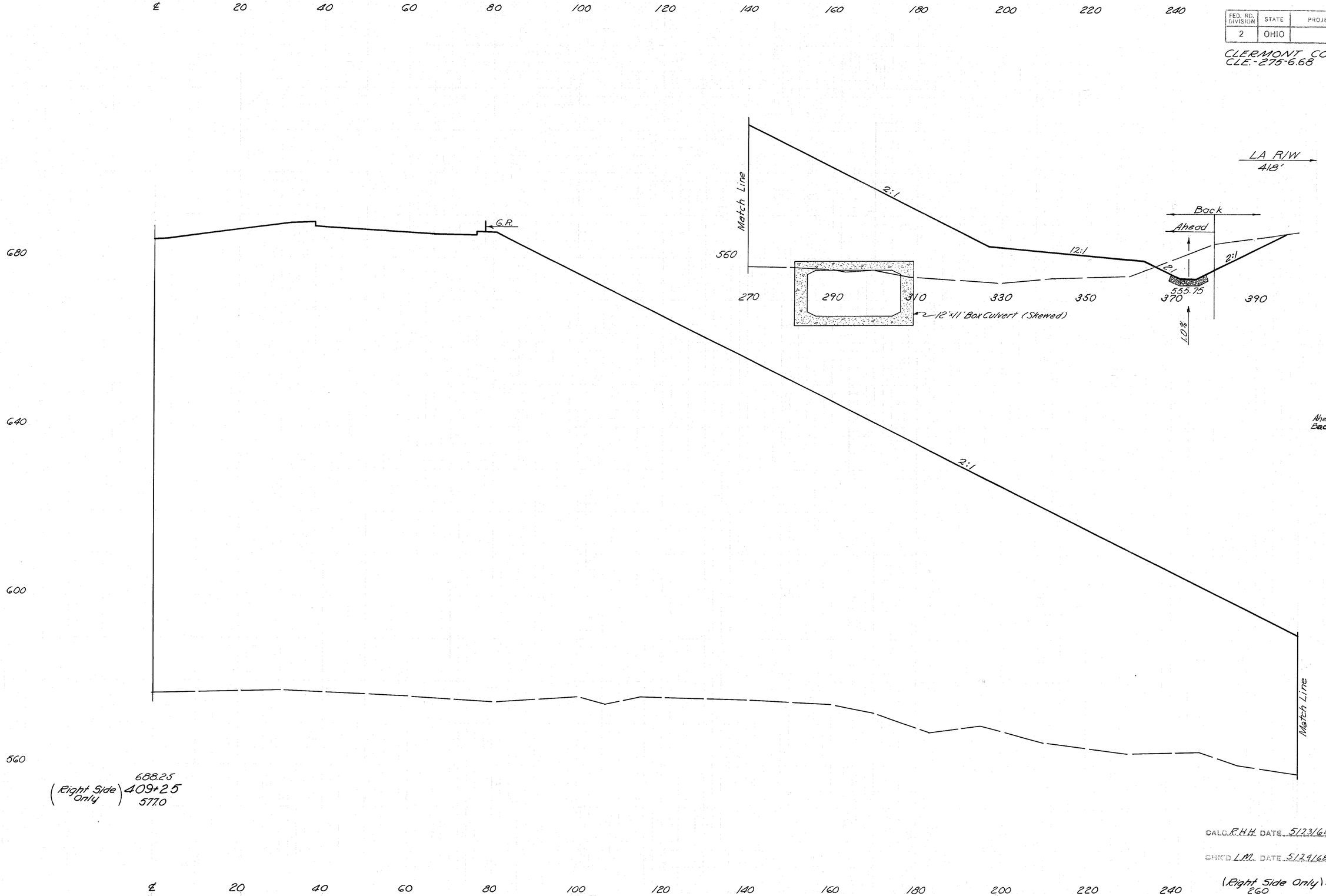
260 240 220 200 180 160 140 120 100 80 60 40 20 ℄

(Left Side Only) STA. 409+25

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

205
638

CLERMONT COUNTY
CLE.-275-6.68



	End Area		Volume	
	Cut	Fill	Cut	Fill
Ahead	68	23249		
Back	115	23249		

CALC. R.H.H. DATE 5/23/68

CHK'D L.M. DATE 5/29/68

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

206
638

CLERMONT COUNTY
CLE.-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill
49		16,410	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

207
638

CLERMONT COUNTY
CLE.-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill
	20		22165

℄ 20 40 60 80 100 120 140 160 180 200 220 240

680

600

560

G.R.

2:1

Match Line

570

560

260 280 300 320 340 360

12:1

2:1

LA R/W
426'

For 203 Channel
Excavation See
Sheet No. 445

Sta 409+49.37 0' Rt
H.W.E
Inv 15" 551.75
End 601 Riprap

12'x11' Box Culvert (Skewed)

Sta 409+39 Rt
End 601 Rock
Channel Protection 8'x2'-0"
Begin 601 Riprap

Match Line

(Right Side Only) 409+50 688.50 584.4

CALC. L.M. DATE 5-24-68

CHK'D T.T.T. DATE 5-25-68

(Right Side Only) STA. 409+50

℄ 20 40 60 80 100 120 140 160 180 200 220 240

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

208
638

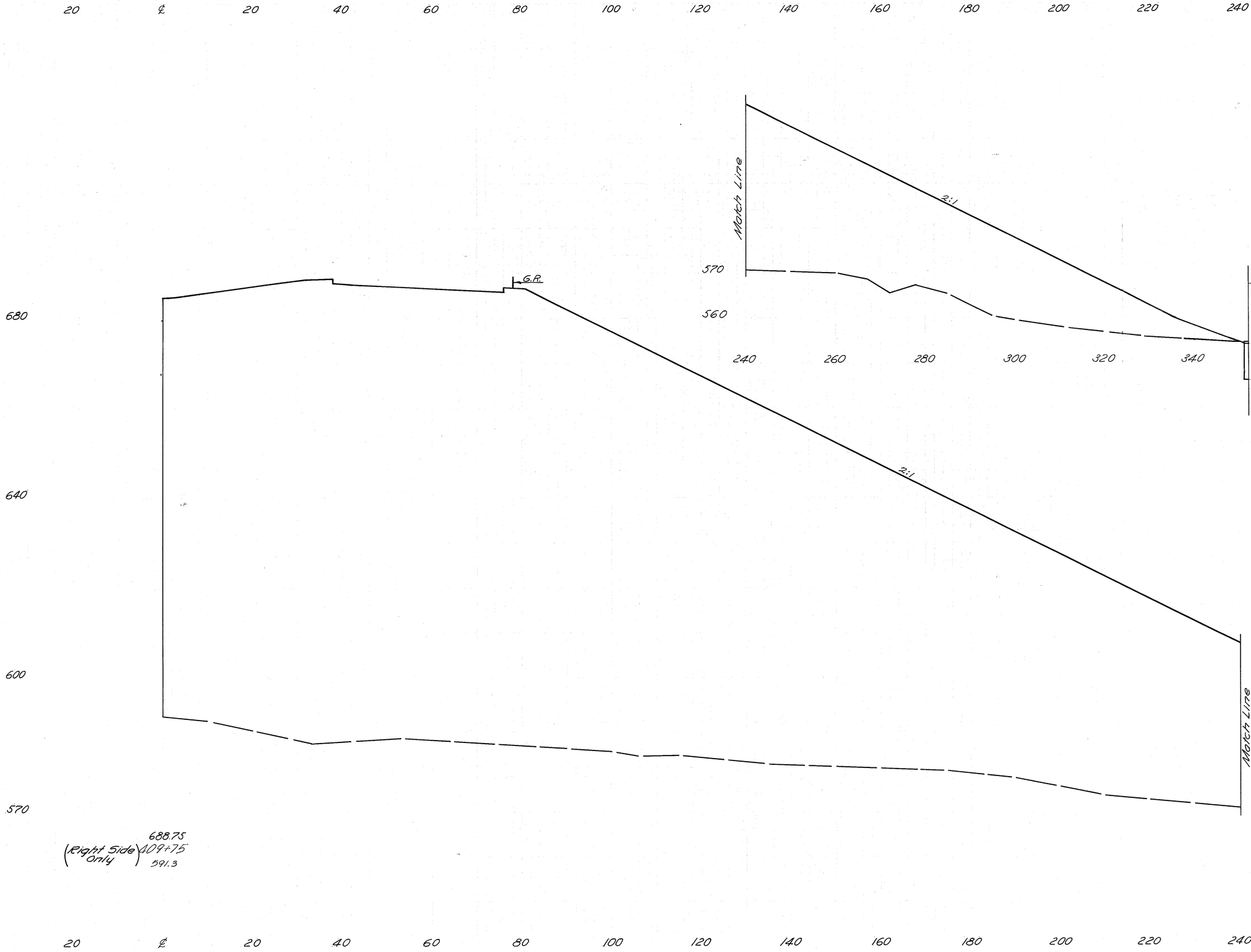
CLERMONT COUNTY
CLE-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

209
638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

210/638

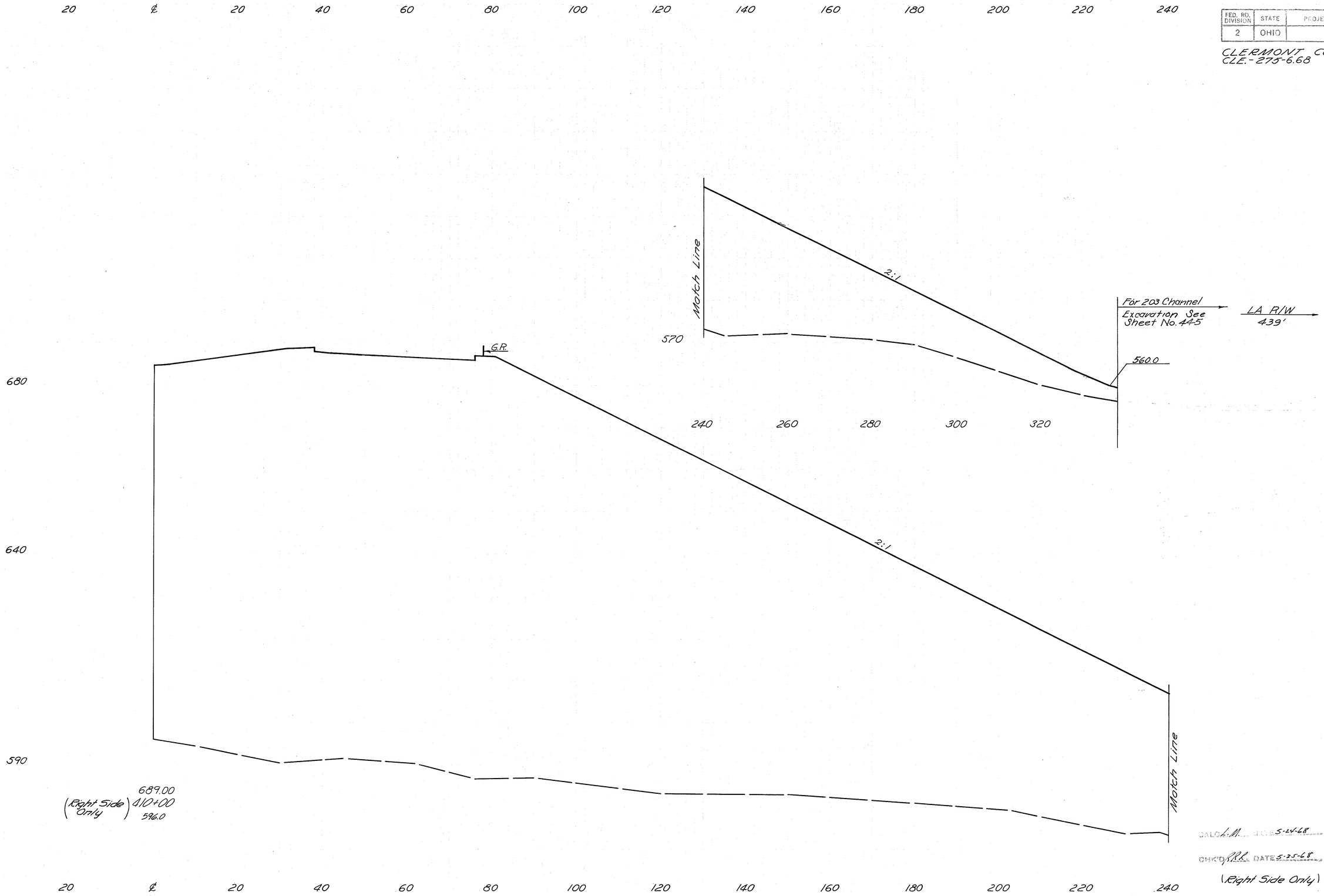
CLERMONT COUNTY
CLE.-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

211
638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

212
638

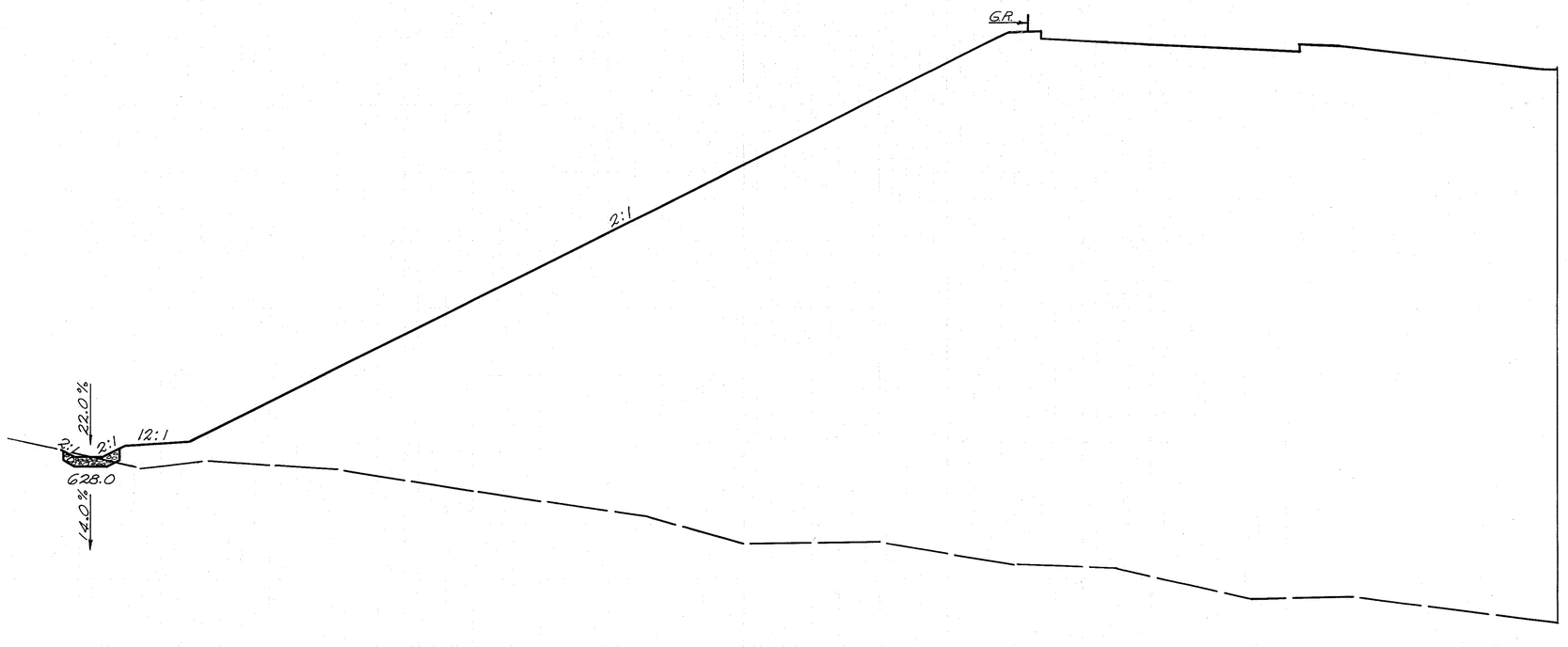
CLERMONT COUNTY
CLE.-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill
1	11,434		
		22	57,400

260 240 220 200 180 160 140 120 100 80 60 40 20 ℄

680

640



689.50
(Left Side Only) 410+50
6038

DRAWN LM DATE 5-24-68
CHKD. MK DATE 5-25-68

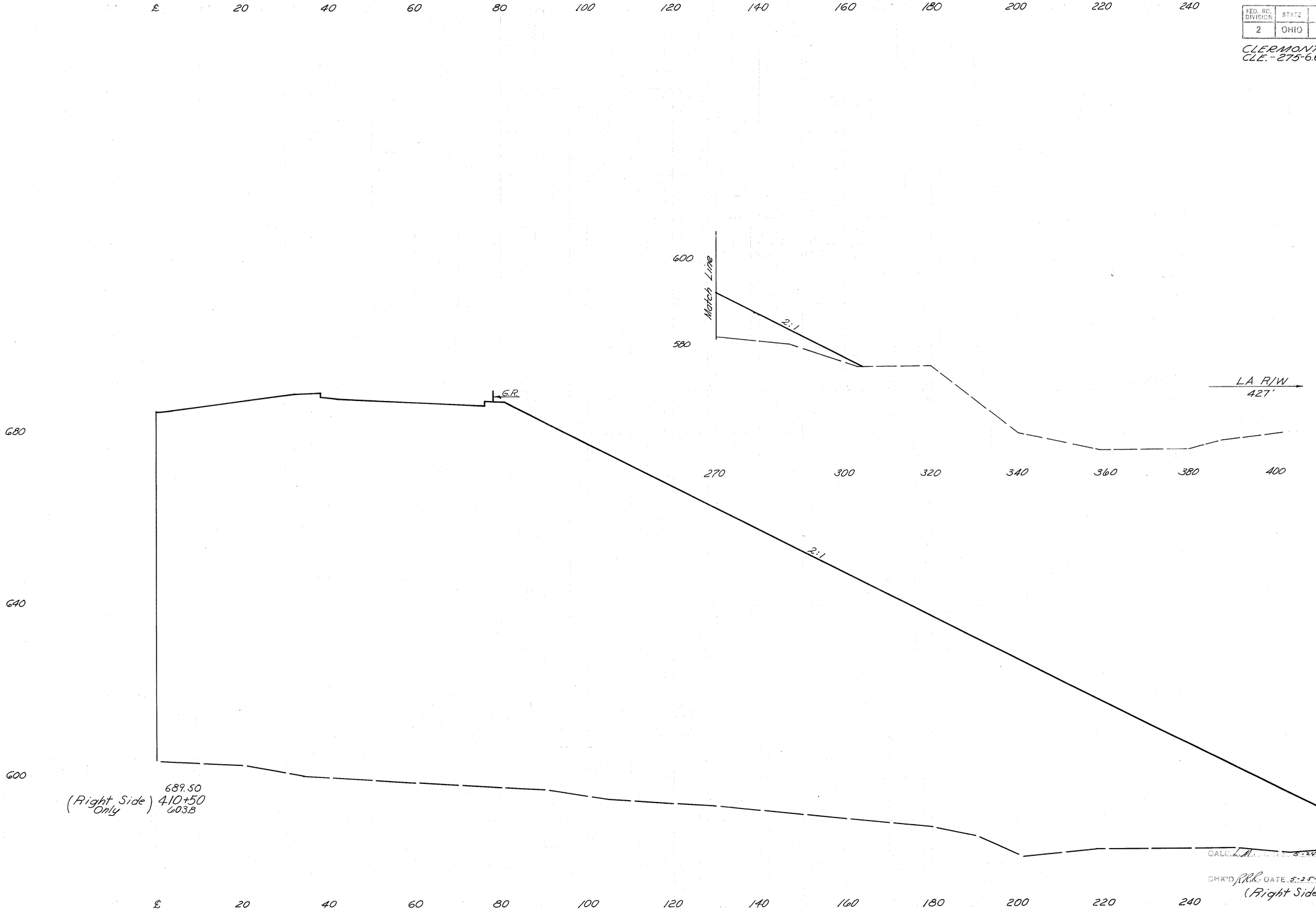
(Left Side Only) STA. 410+50

260 240 220 200 180 160 140 120 100 80 60 40 20 ℄

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

213
638

CLERMONT COUNTY
CLE.-275-6.68

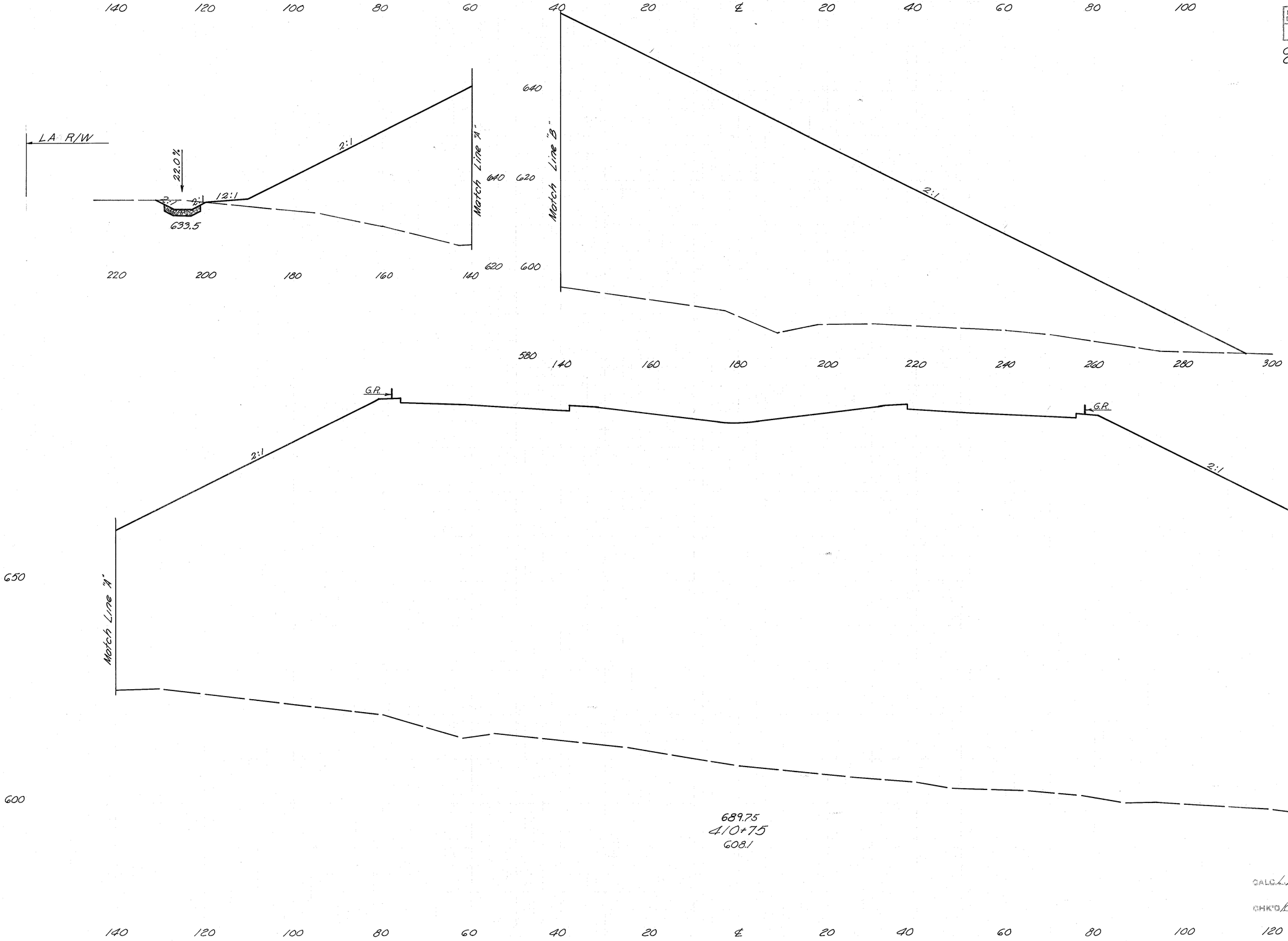


End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

2.14
638

CLERMONT COUNTY
CLE.-275-6.68

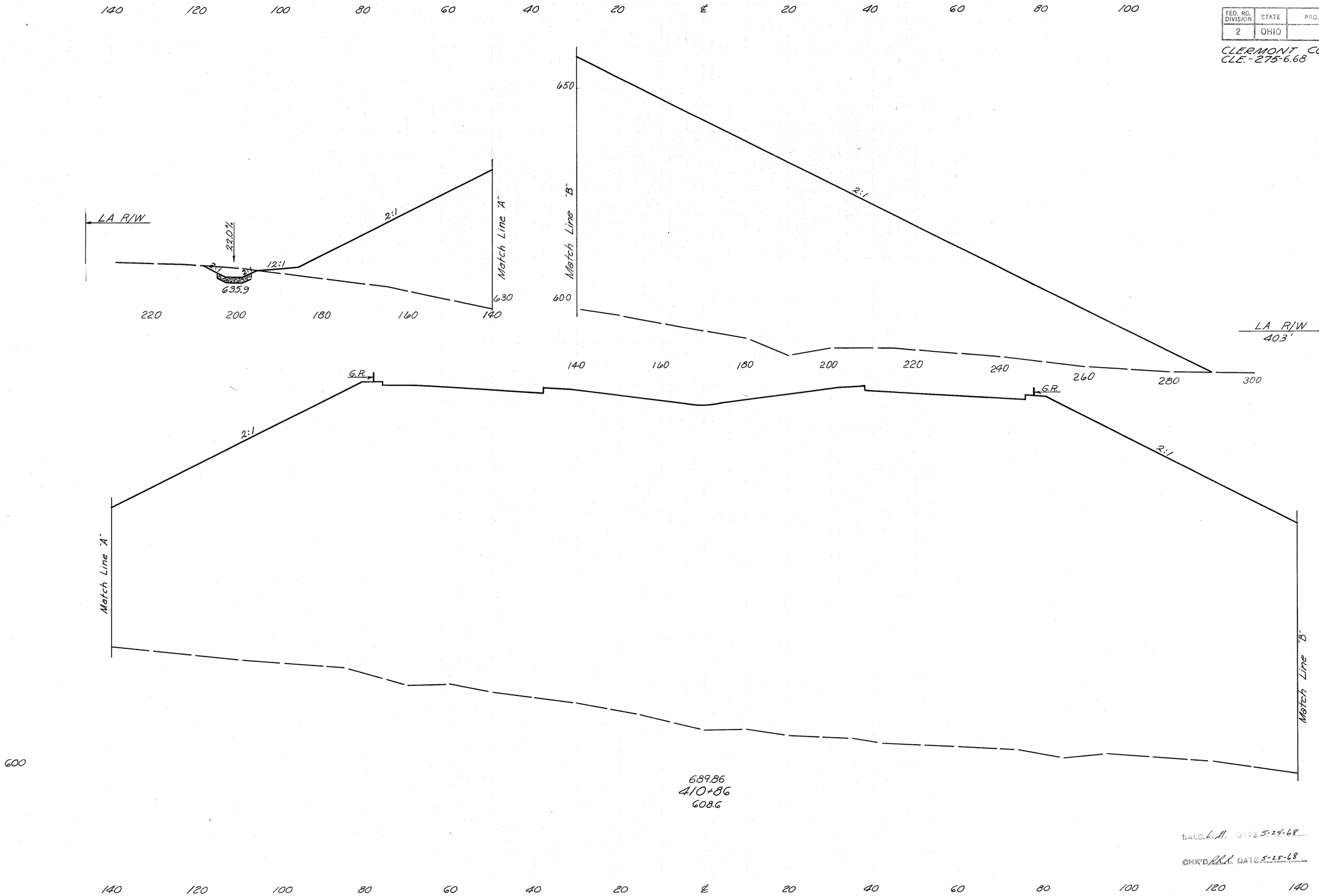


End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

215/638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
21	24,000		
		8	10459

STA. 410+86

DALC.L.M. DATE 5-24-68

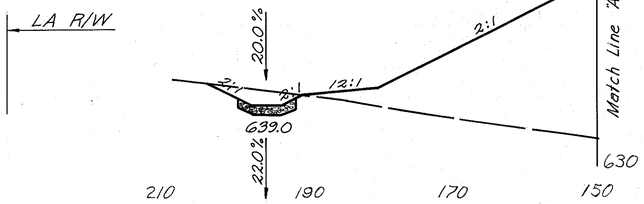
CHK'D RRR DATE 5-25-68

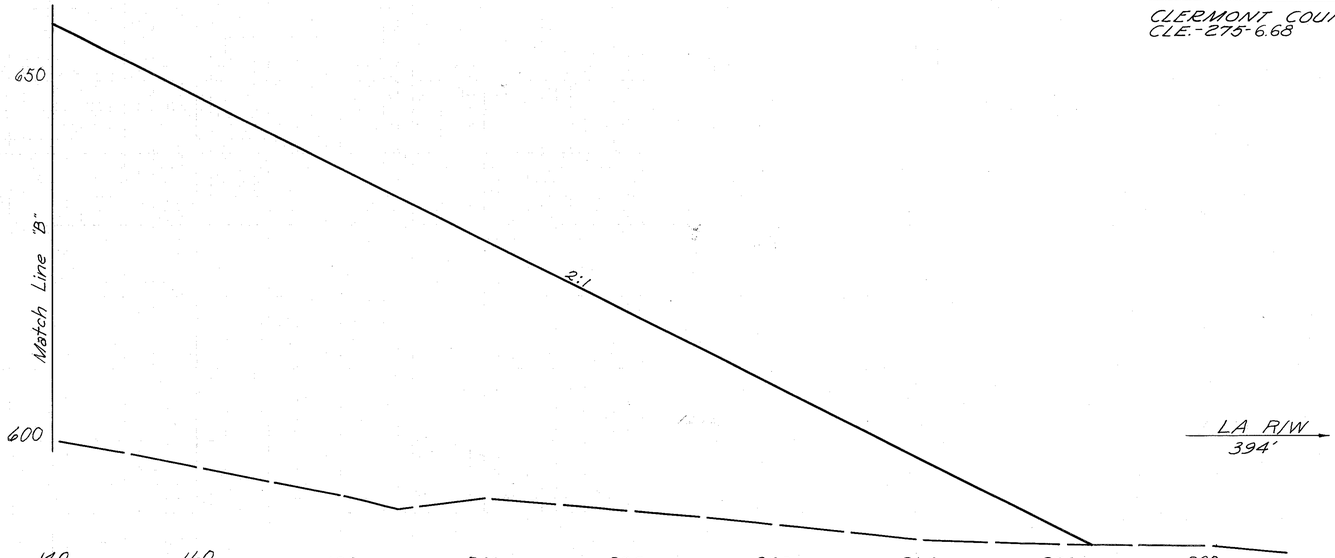
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

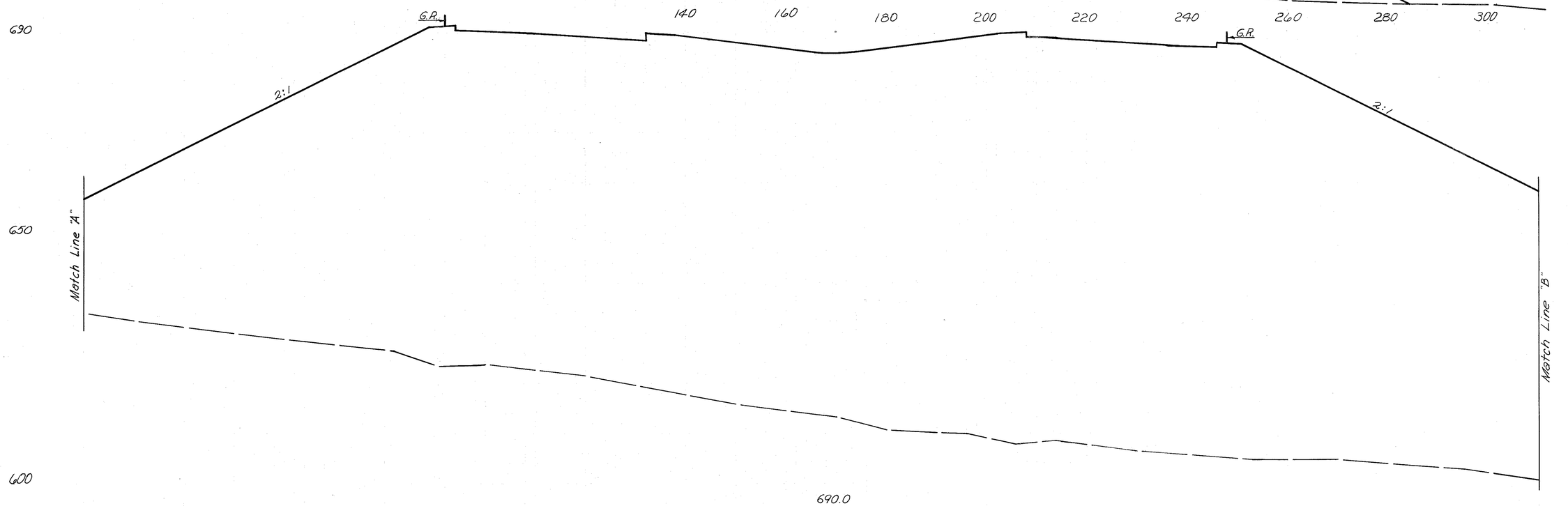
216
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100







End Area		Volume	
Cut	Fill	Cut	Fill
23	24,109		
11	12796		

STA. 411+00

DWN L.M. DATE 5-24-68

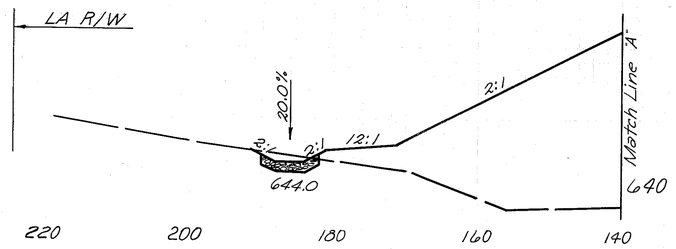
CHK'D R.R.R. DATE 5-25-68

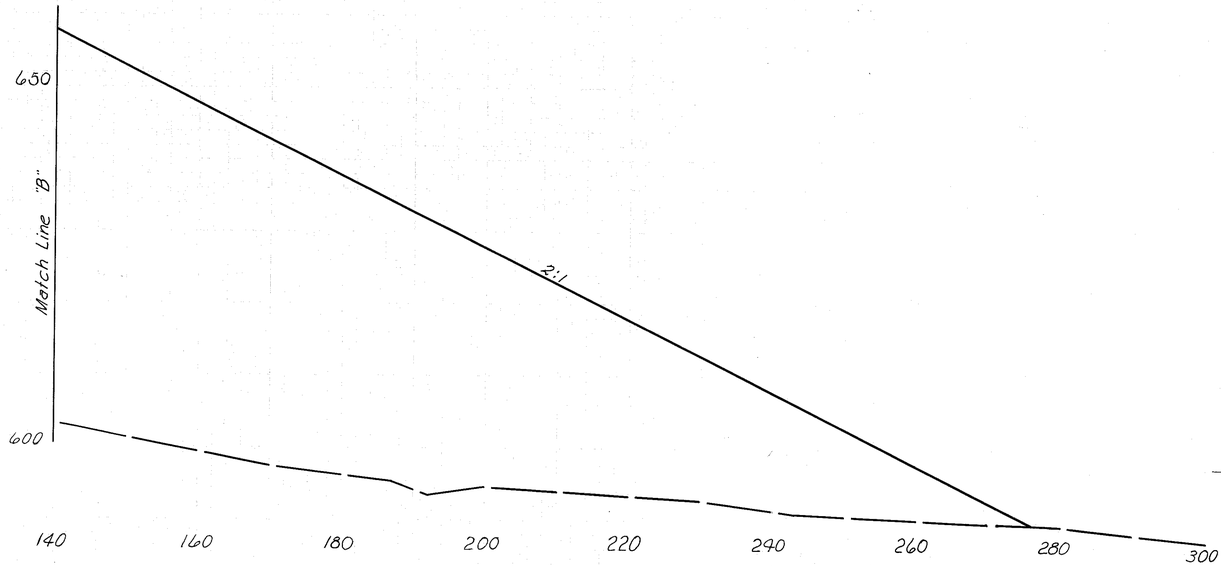
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

217
638

CLERMONT COUNTY
CLE.-275-6.68

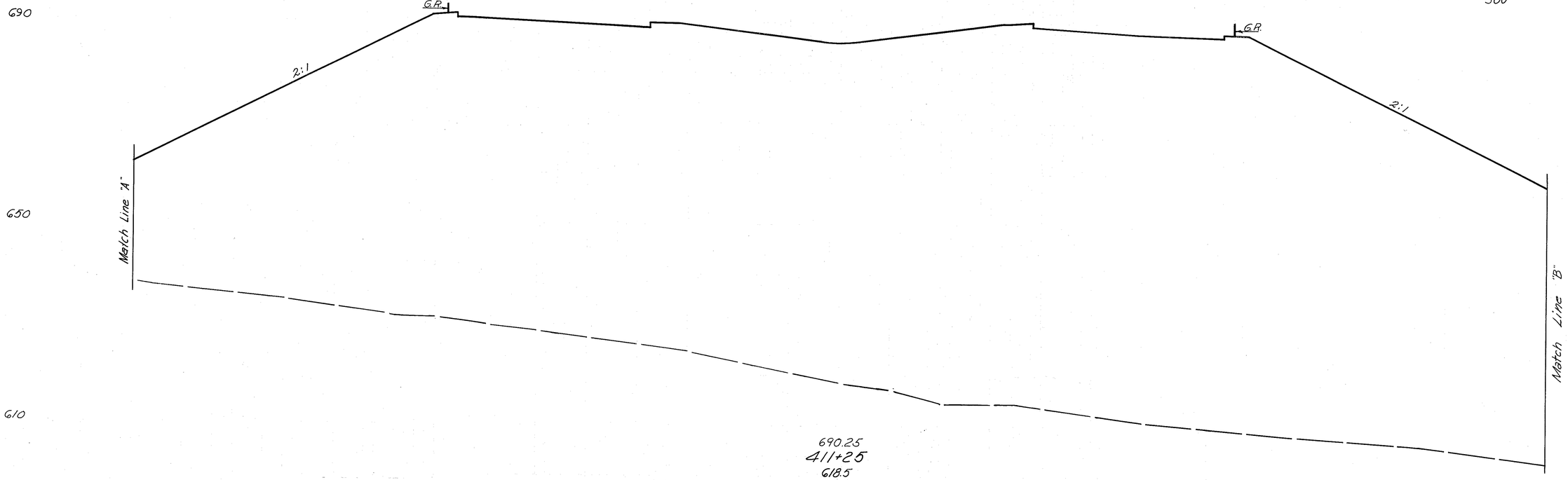
140 120 100 80 60 40 20 ℄ 20 40 60 80 100





LA R/W
377'

End Area		Volume	
Cut	Fill	Cut	Fill
6	22,132		
		13	21,405



CALC. LM DATE 5-24-68
CHK'D RRK DATE 5-25-68

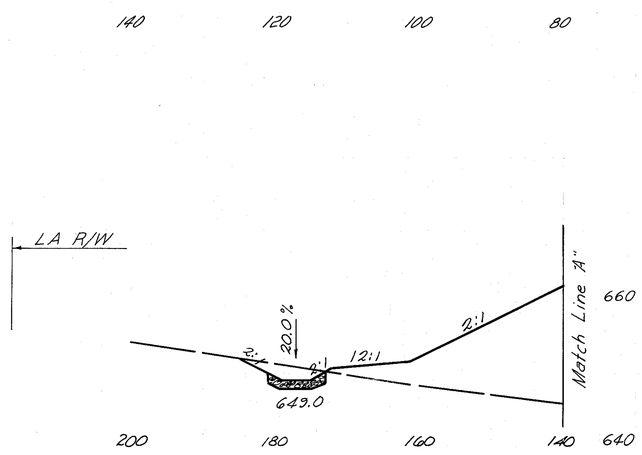
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

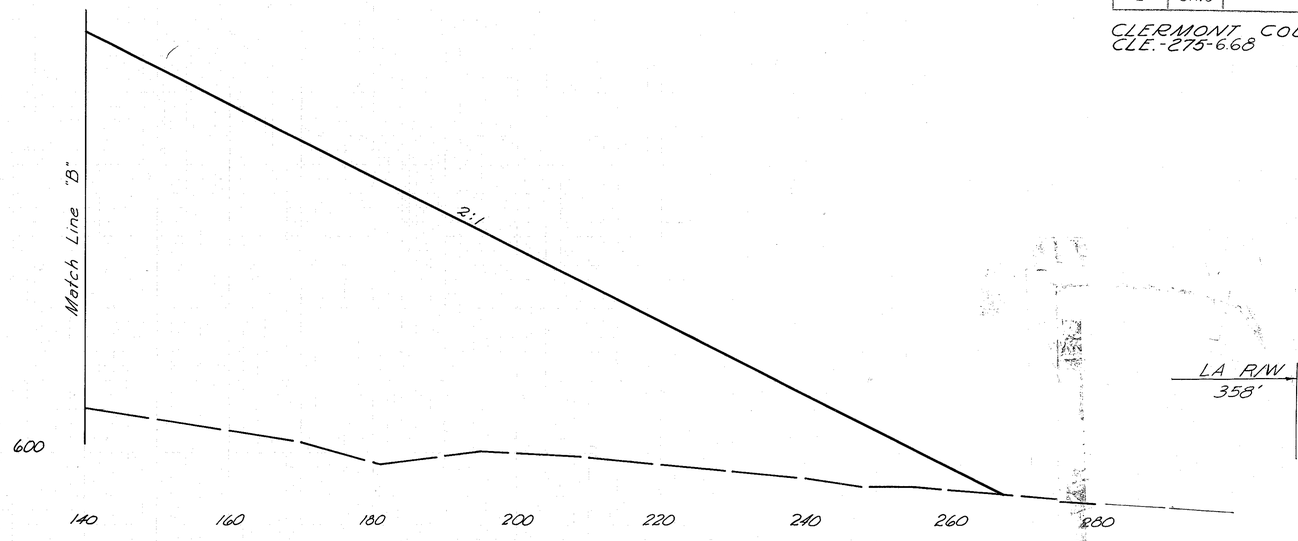
STA. 411+25

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

218
238

CLERMONT COUNTY
CLE.-275-6.68





LA R/W
358'

End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT		219 (638)
2	OHIO	473 Pool	3.19	

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA R/W

20.0%

2:1 2:1 12:1 2:1

Match Line "A"

650

654.0

180 160 140

Match Line "B"

2:1

600

140 160 180 200 220 240 260

LA R/W
340'

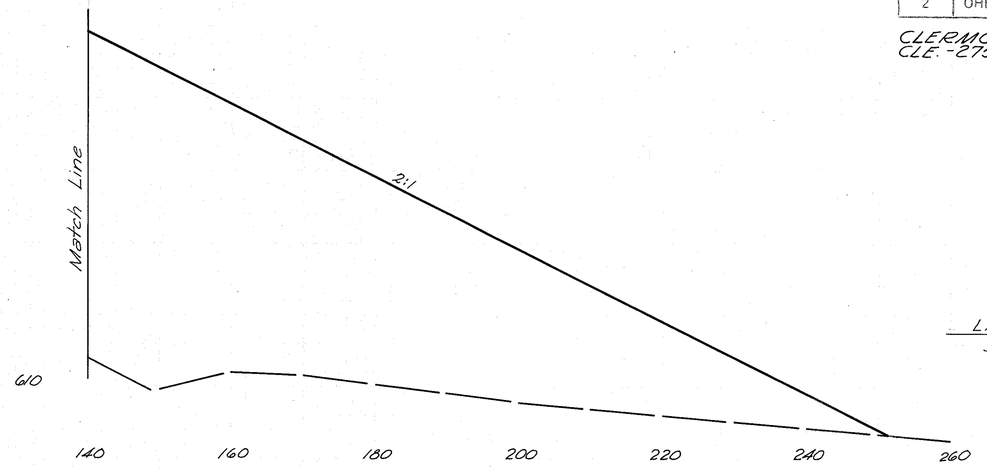
End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

220
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



Sta. 412+00
Begin Special Slope Benching

LA R/W
319'

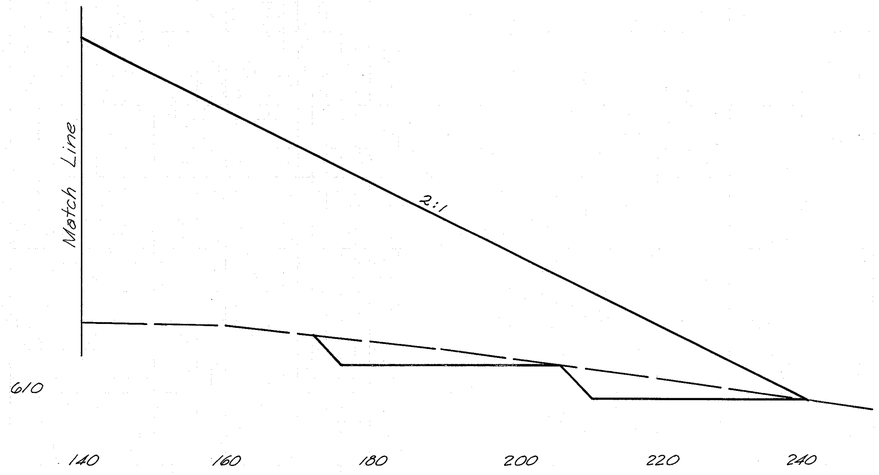
End Area		Volume	
cut	Fill	cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

221
638

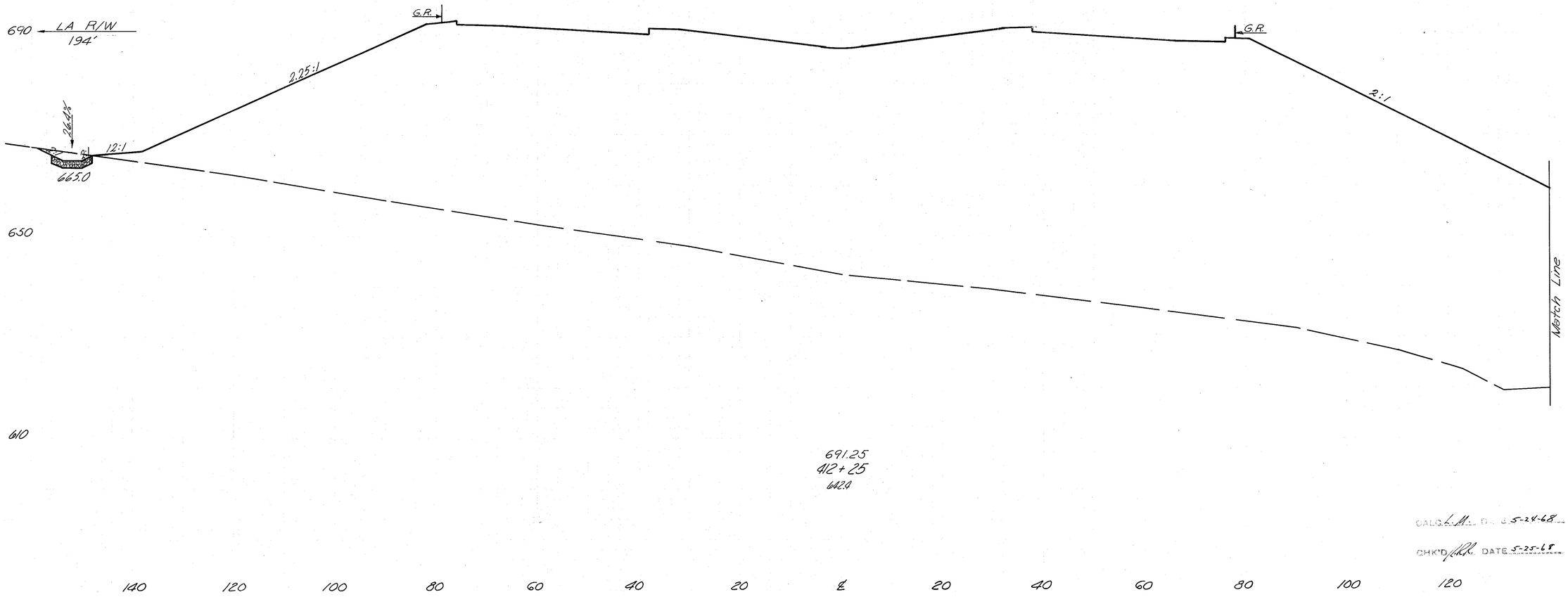
CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



LA R/W
301'

End Area		Volume	
Cut	Fill	Cut	Fill
146	13418		
		75	13414



CALC'D L.M. DATE 5-24-68

CHK'D J.R.L. DATE 5-25-68

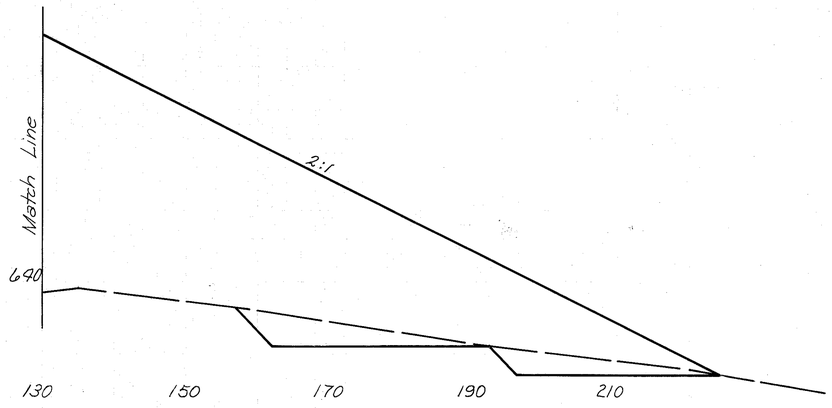
STA. 412+25

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

222
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



LA R/W
283'

End Area		Volume	
Cut	Fill	Cut	Fill

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

223
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA R/W
173'

690

640

200%
2:1
3:1
G.R.
8:1
681.0
16.0%

Match Line "B"
640
2:1
140
180
G.R.
2:1

LA R/W
242'

Match Line "B"

69200
413+00
661.2

LA R/W
180'

690

640

16.0%
2:1
12:1
2.75:1
G.R.
8:1
677.0
21.2%

Match Line "A"
630
2:1
140
160
180

LA R/W
282'

G.R
2:1

Match Line "A"

Sta. 412+75, Lt.
End 601 Rock Channel Protection Type "B" 8'x2'-0"
Begin 601 Rock Channel Protection Type "B" 12'x2'-0"

691.75
412+75
654.6

End Area		Volume	
Cut	Fill	Cut	Fill
164	7740		
		166	7945
195	9423		
		165	9654

CALC'D L.M. DATE 5-24-68
CHK'D R.R. DATE 5-25-68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

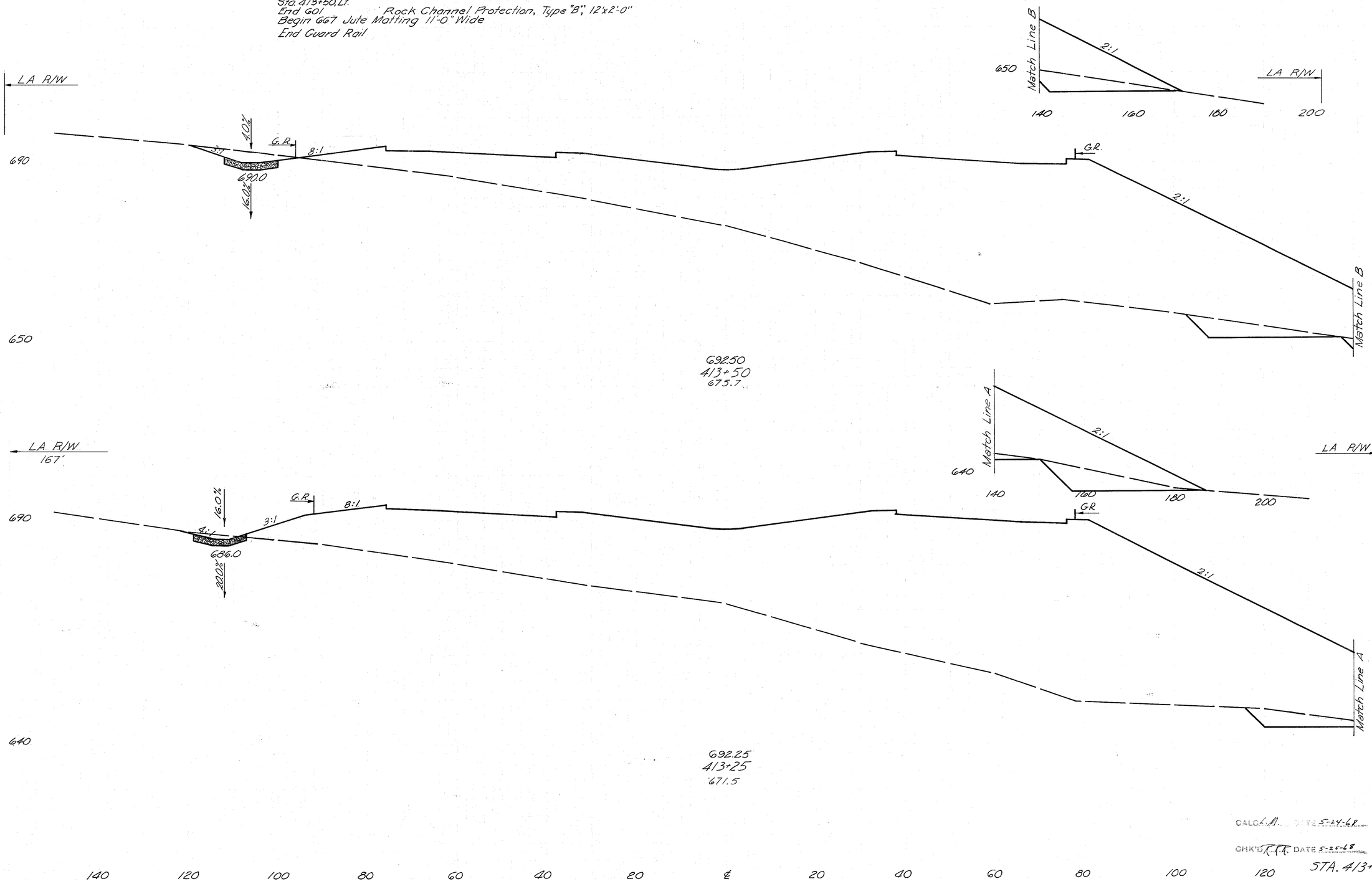
STA. 412+75 ~ STA. 413+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

224
638

CLERMONT COUNTY
CLE.-275-G.68

Sta 413+50, Lt.
End G01 : Rock Channel Protection, Type "B", 12'x2'-0"
Begin GG7 Jute Matting 11'-0" Wide
End Guard Rail



End Area Cut	End Area Fill	Volume Cut	Volume Fill
201	4361		
		179	4725
186	5847		
		162	6289

CALC'D A... DATE 5-24-68

CHK'D R.C.L. DATE 5-25-68

STA. 413+25 ~ STA. 413+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

225
638

CLERMONT COUNTY
CLE.-275-G68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

4:1 8:1 LA R/W Approx. Top of Rock G.R. 2:1 LA R/W 183'

G93.25
414+25
683.0

650 LA R/W Approx. Top of Rock G.R. LA R/W 182'

Sta. 414+00, Lt.
End GG7 Jute Matting 11'-0" Wide

G93.00
414+00
680.9

650 LA R/W 4:1 8:1 G.R. 2:1 Match Line

660 Match Line 2:1 LA R/W 650 140 160 180

Sta. 413+75, Lt.
End 4' Bottom Special Ditch

650

G92.75
413+75
679.1

End Area		Volume	
Cut	Fill	Cut	Fill
787	1437		
		632	1719
578	2227		
		432	2149
356	3011		
		258	3412

L.M. DATE 5-24-68

CHK'D T.A.L. DATE 5-25-68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

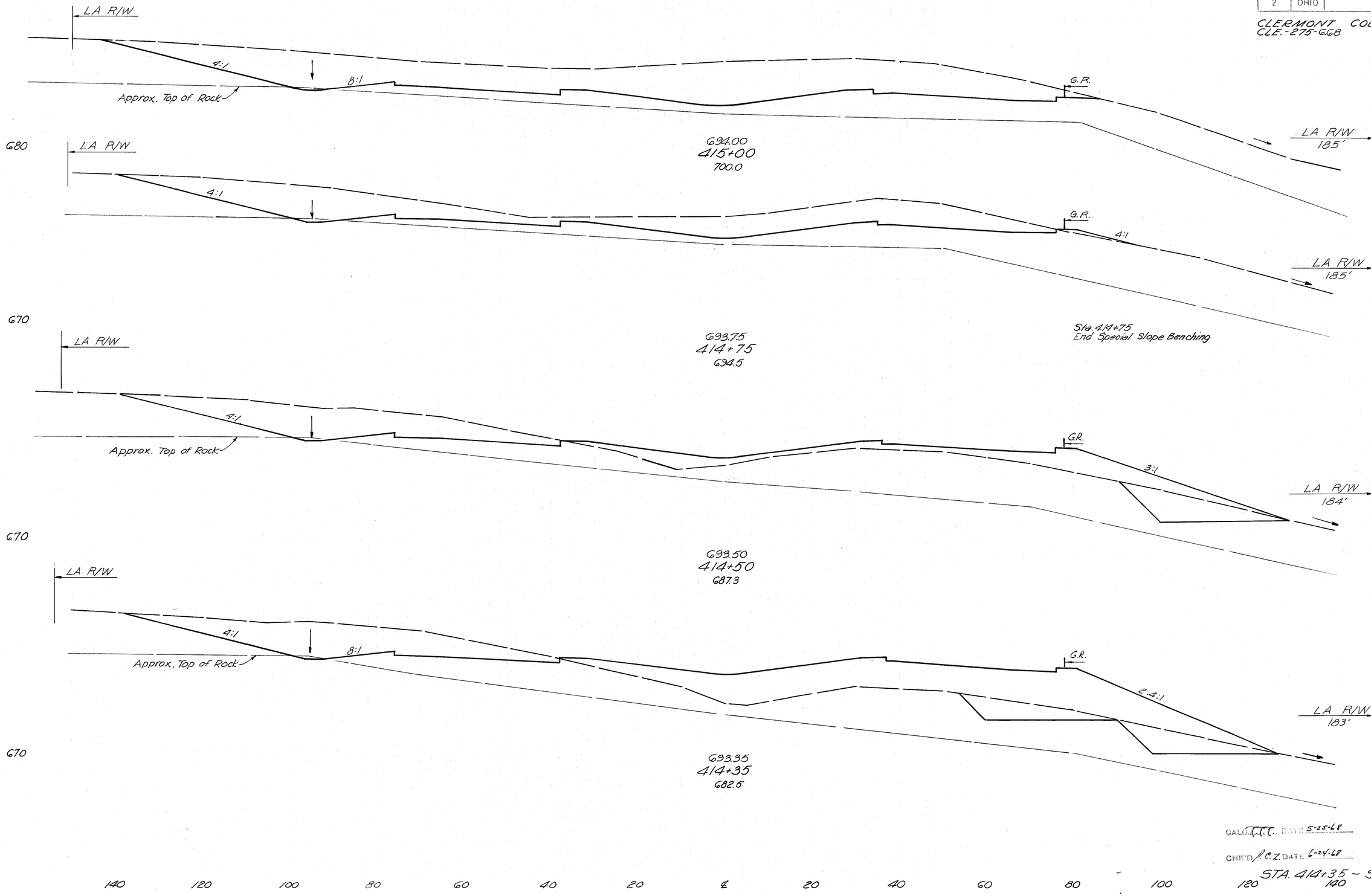
STA. 413+75 – STA. 414+25

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

226
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
1435	0		
		1076	2
890	5		
		693	231
607	493		
		362	155
696	1146		
		275	478

CALC'D. A.A.C. DATE 5-25-68

CHK'D. R.C.Z. DATE 6-24-68

STA. 414+35 – STA. 415+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

227
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

670

LA R/W

2.5:1

8:1

Approx. Top of Rock

G.R.

2:1

LA R/W
185'

694.80
415+80
706.7

LA R/W

3:1

G.R.

LA R/W
185'

Approx. Top of Rock

670

694.50
415+50
704.4

LA R/W

3.5:1

8:1

G.R.

2:1

LA R/W
185'

Approx. Top of Rock

660

694.25
415+25
702.0

	End Area		Volume	
	Cut	Fill	Cut	Fill
Rock 3/2	2371	0		
			2461	0
	2059			
			1729	0
	1677	0		
			1441	0

CALC. M.S.T. DATE 5-25-68

CHK'D J.C.Z. DATE 6-24-68

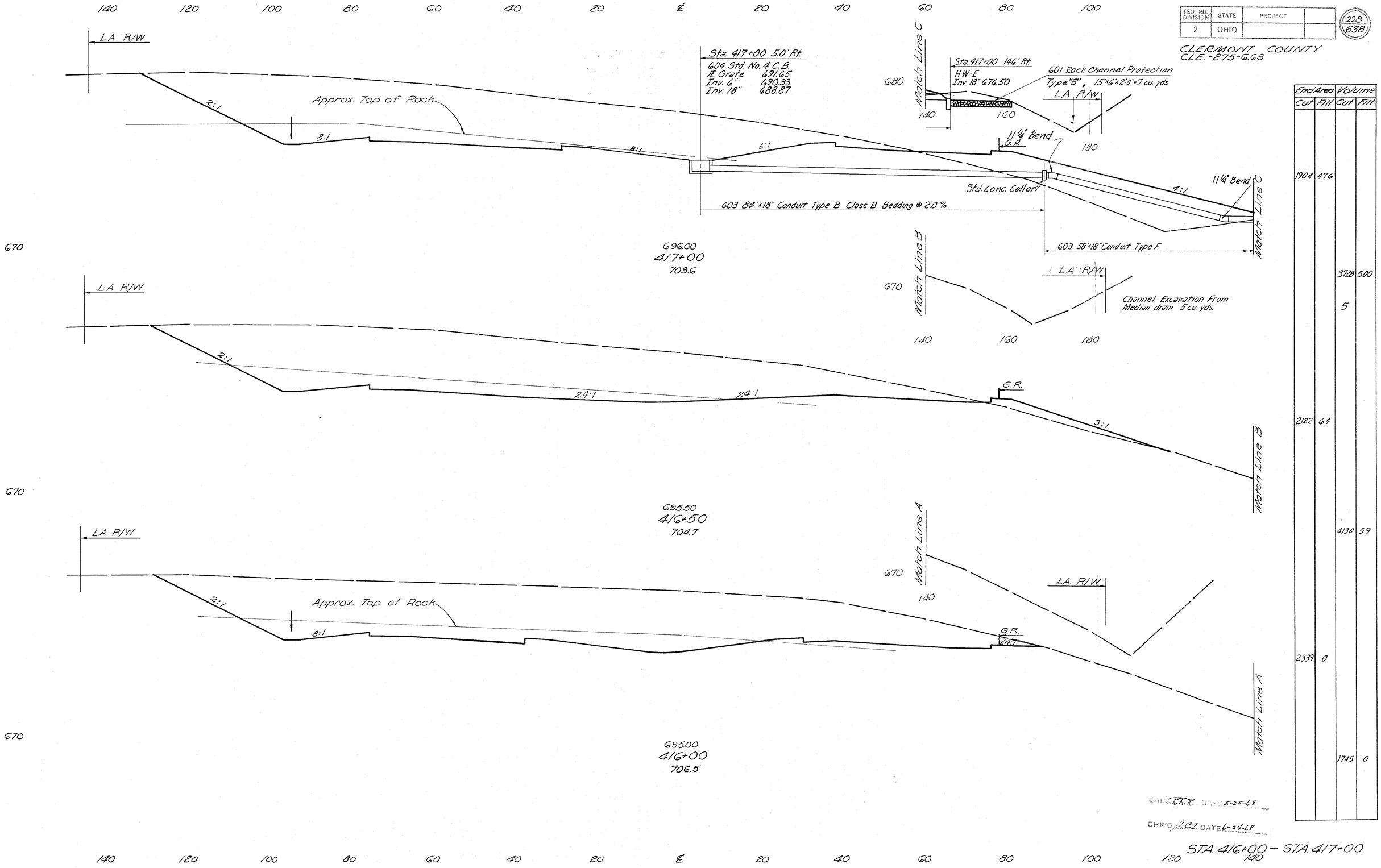
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

STA. 415+25 ~ STA. 415+80

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

228
638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
1904	476		
		3728	500
		5	
2122	64		
		4130	59
2339	0		
		1745	0

CALC. T.E.R. DATE 5-25-68
CHK'D J.C.Z. DATE 6-24-68

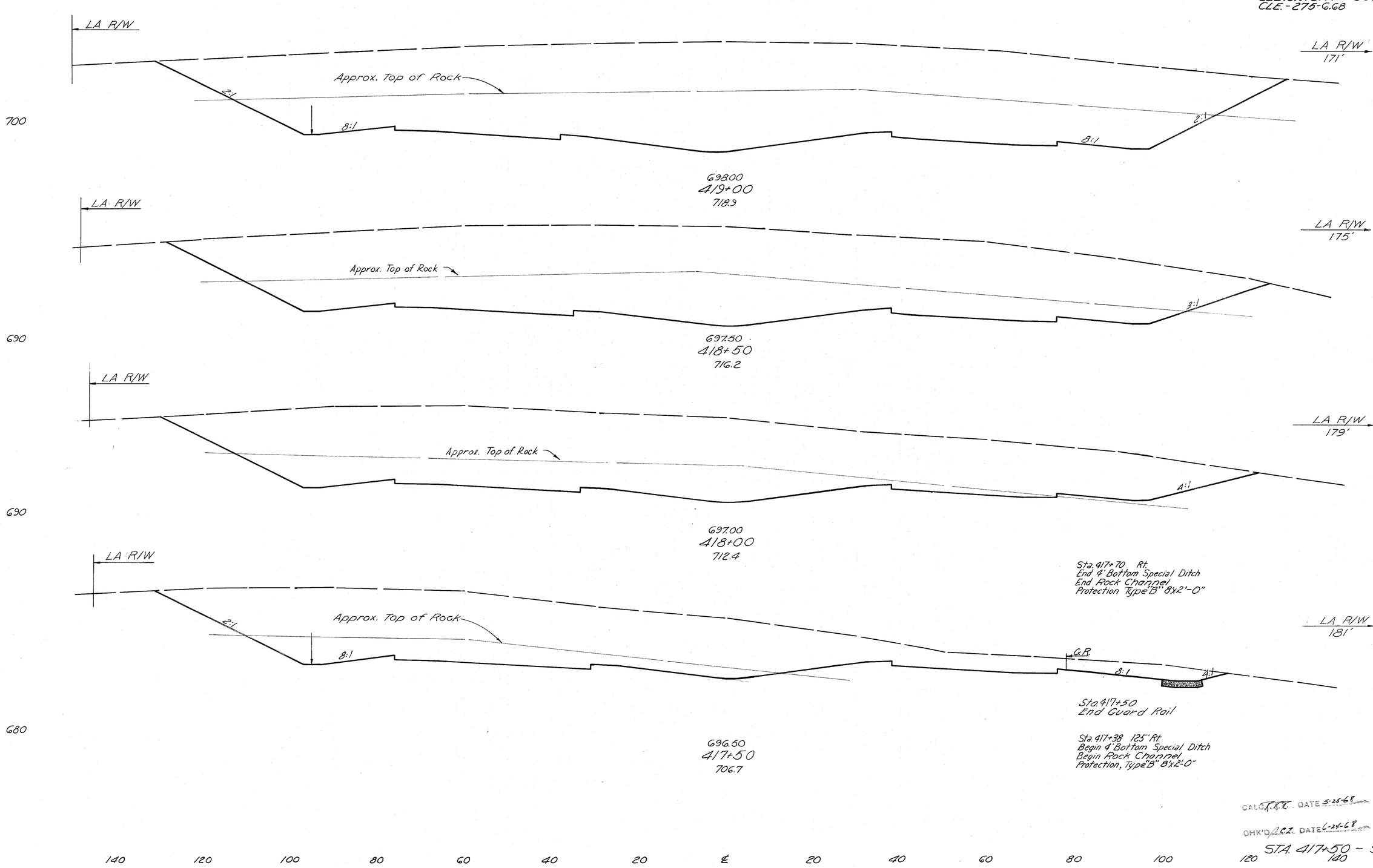
STA. 416+00 – STA. 417+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

229
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



	End Area		Volume	
	Cut	Fill	Cut	Fill
	4700	0		
			8157	0
	4110	0		
			7046	0
	3500	0		
			5472	0
	2410	0		
			3994	441

CALC'D. T.A.C. DATE 5-25-68
CHK'D. J.C.Z. DATE 6-24-68

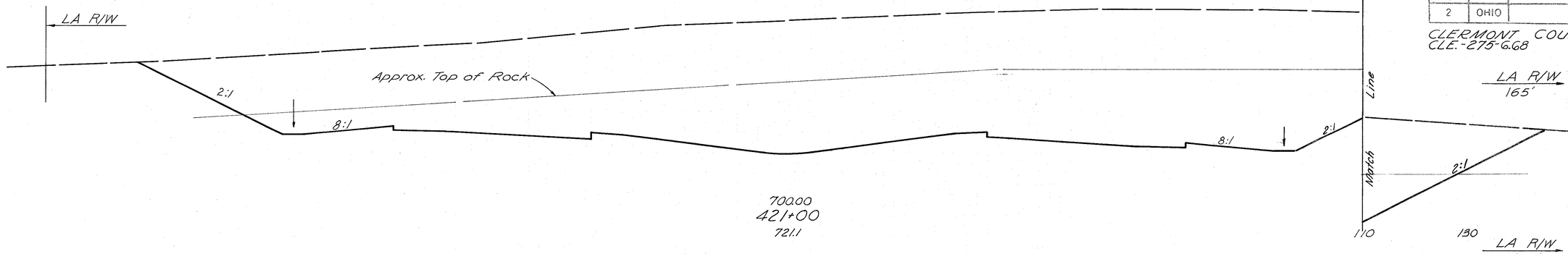
STA. 417+50 - STA. 419+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

230
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



Station	End Area Cut	End Area Fill	Volume Cut	Volume Fill
421+00				
	5185	0		
			9639	0
420+50				
	5225	0		
			9618	0
420+00				
	5163	0		
			9392	0
419+50				
	4981	0		
			8964	0

STA. 405+00 - STA. 420+00

Excavation	66,235 C.Y.
Embankment	1,081,825 C.Y.

DES. T.R.R. DATE 5-25-68

CHKD. J.C.Z. DATE 6-24-68

STA. 419+50 - STA. 421+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

231
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

690

701.76
422+50
717.8

690

701.12
422+00
719.4

690

700.53
421+50
720.7

	End Area		Volume	
	Cut	Fill	Cut	Fill
LA R/W 168'				
	4362	0		
			8428	0
LA R/W 167'				
	4741	0		
			9010	0
LA R/W 166.5'				
	4990	0		
			9421	0

CALC'D T.C.K. DATE 5-25-68

CHK'D A.G.Z. DATE 6-24-68

STA. 421+50 - STA. 422+50

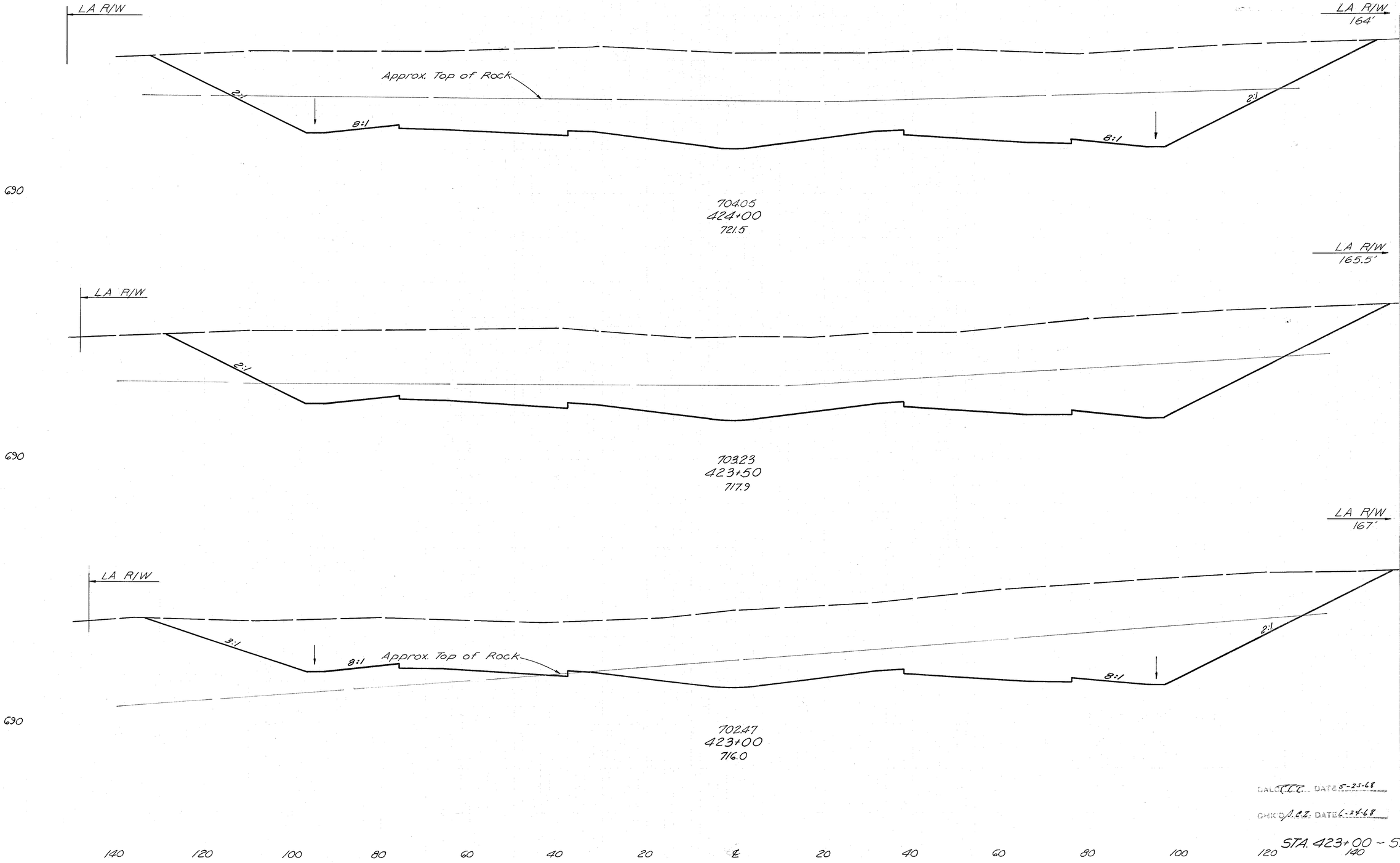
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

232
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



	End Area		Volume	
	Cut	Fill	Cut	Fill
	4752	0		
			8403	0
	4324	0		
			7607	0
	3880	0		
			7642	0

CALC. T.C.C. DATE 5-25-68

CHK'D J.C.Z. DATE 6-24-68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

STA. 423+00 ~ STA. 424+00

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

233
638

LA R/W
146'

CLERMONT COUNTY
CLE.-275-6.68

Approx. Top of Rock

2:1

8:1

4.09%

GR

3:1

2.73%

3:1

2:1

LA R/W

8:1

700

703.90

705.00

1.0%

4.0%

707.92
426+00
726.7

Sta. 426+00
Begin Guard Rail

4773 0

LA R/W
146'

LA R/W

8784 0

4714 0

700

706.86
425+50
725.7

Sta. 425+50, 97' Rt.
Begin "V" Bottom Ditch

Sta 425+50 to Sta. 426+00, 95' Rt.
Transition From 4' Bottom Ditch
to "V" Bottom Ditch

LA R/W
146'

LA R/W

8824 0

4816 0

700

705.87
425+00
725.1

8876 0

LA R/W
161.5

LA R/W
149'

Approx. Top of Rock

2:1

8:1

2:1

8:1

4770 0

700

704.93
424+50
724.6

8816 0

T.R.R. DATE 5-25-68

DRWN. DATE 6-24-68

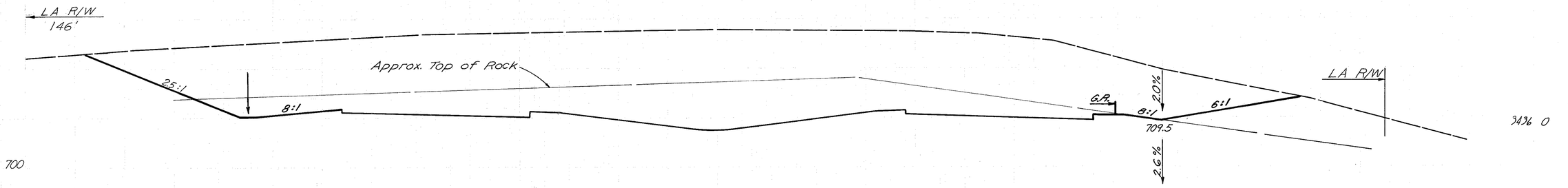
STA 424+50 ~ STA 426+00

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

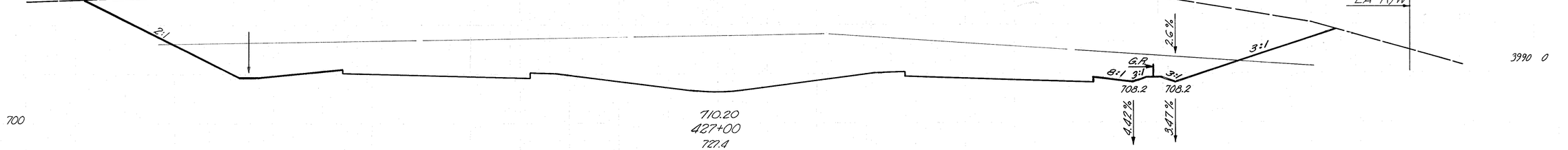
234
638

CLERMONT COUNTY
CLE.-275-G.68



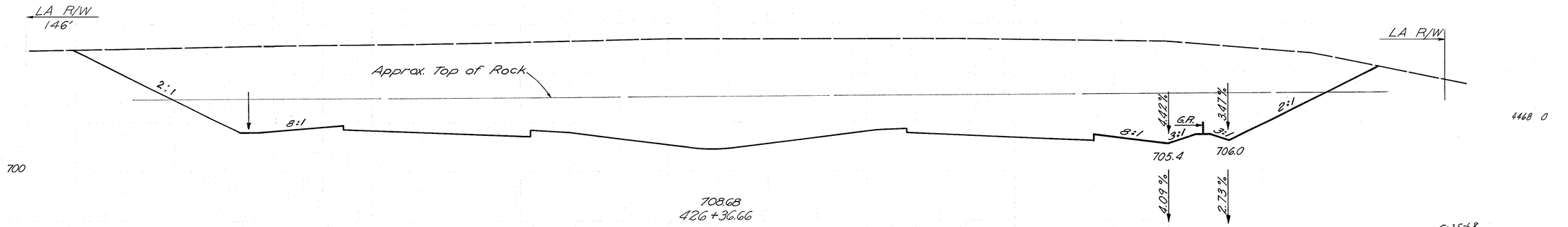
3436 0

6876 0



3990 0

7922 0



4468 0

6274 0

R.C.K. DATE 5-25-68

REVISED DATE 6-24-68

STA. 426+36.66 ~ STA. 427+50

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

120 100 80 60 40 20 ℄ 20 40 60 80 100 120

235
638

CLERMONT COUNTY
CLE-275-6.68

LA R/W
146.5'

3:1

8:1

Approx. Top of Rock

G.R.

2:1

2001 44

715.00
429+00
725.9

LA R/W

680

6208 102

LA R/W
146'

G.R.

2:1

2026 22

713.0
428+16.76
725.7

LA R/W

Sta 428+10 Rt.
Begin Special Slope Benching

1410 7

680

LA R/W
146'

3:1

8:1

Approx. Top of Rock

G.R.

8:1

8:1

L'A R/W

2517 0

710.50

Sta. 428+00, 92' Rt.
End "V" Bottom Ditch

700

712.60
428+00
726.8

2.0%

5512 0

CHK'D C.R. DATE 5-25-68

DRWN J.C.Z. DATE 6-24-68

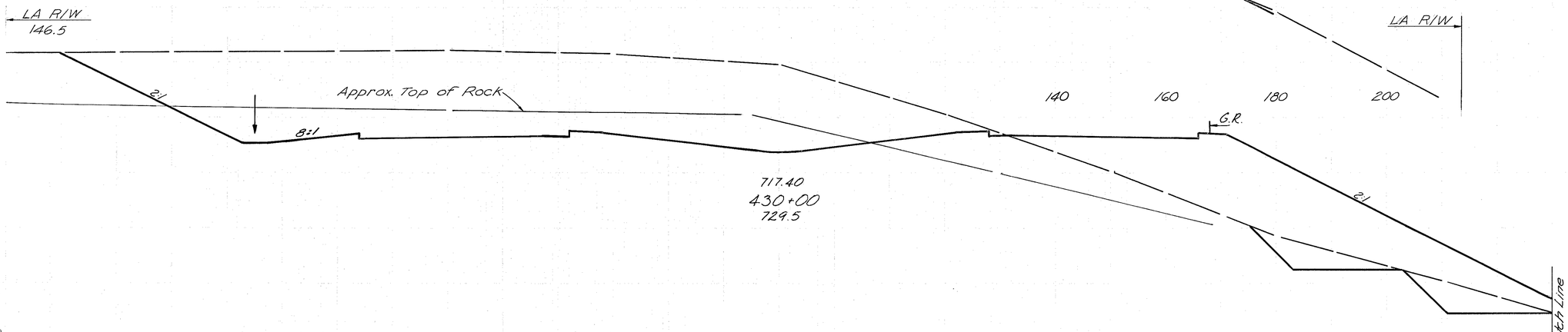
STA. 428+00 - STA. 429+00

120 100 80 60 40 20 ℄ 20 40 60 80 100 120

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

236
638

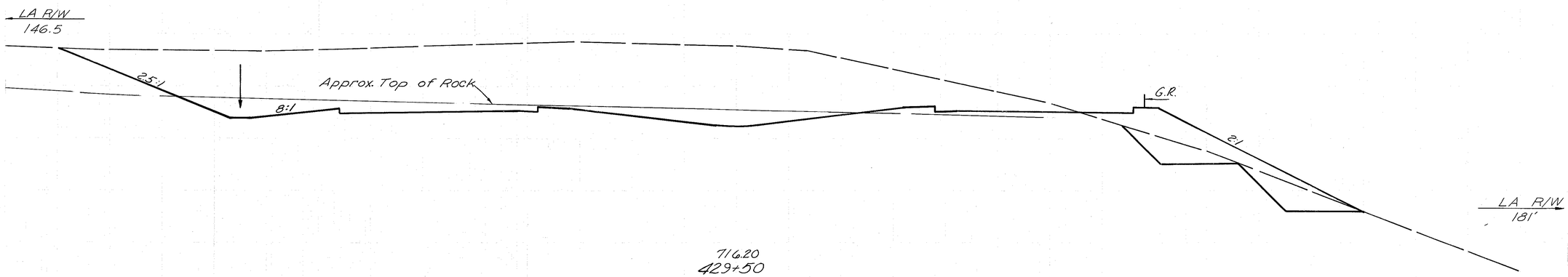
CLERMONT COUNTY
CLE.-275-6.68



680

2994 1154

4080 1303



680

2113 253

3809 275

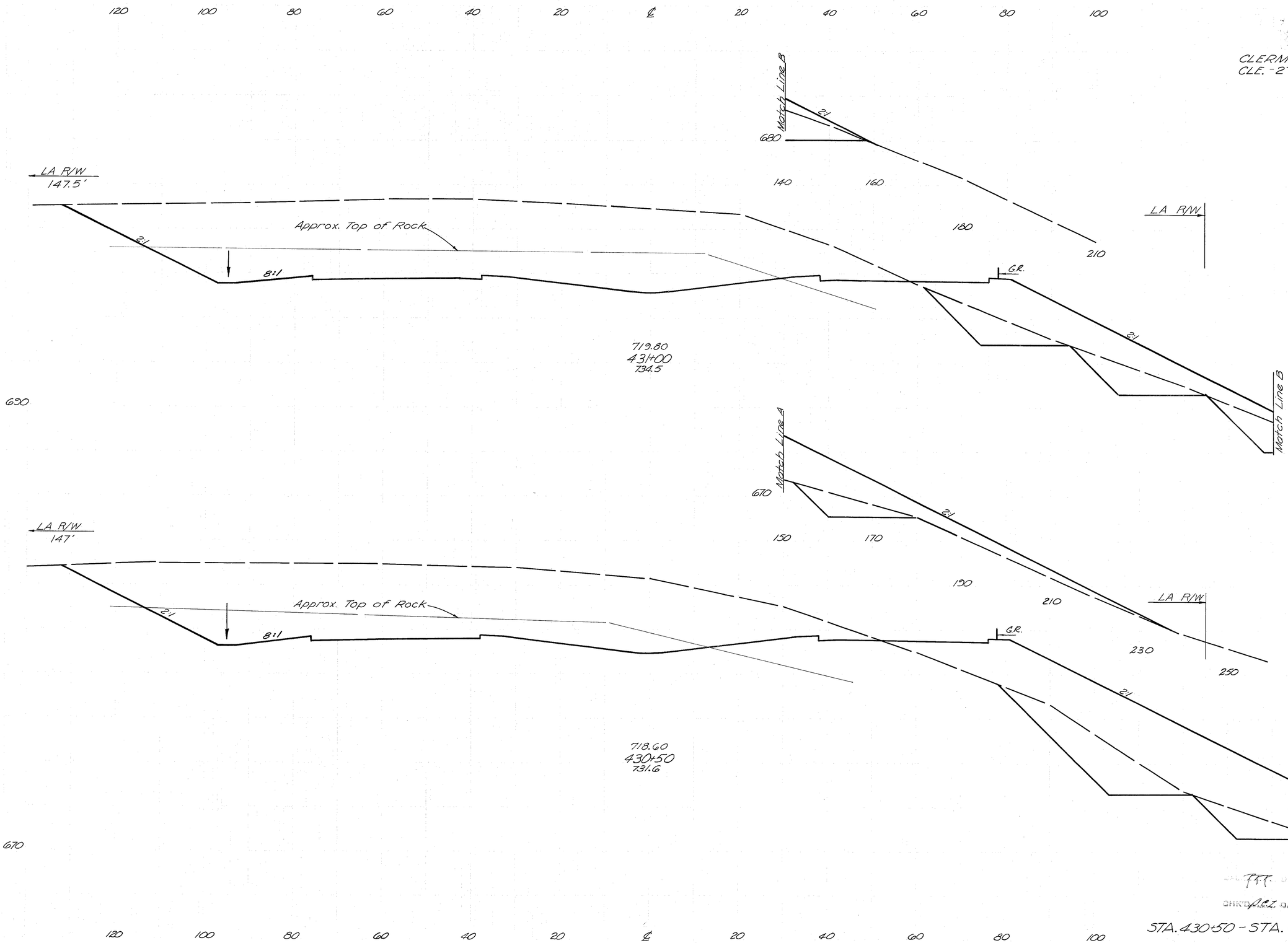
DRAWN J.C.Z. DATE 6-24-68

STA. 429+50 - STA. 430+00

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

237
638

CLERMONT COUNTY
CLE.-275-6.68



3065 860

5479 2425

2833 1759

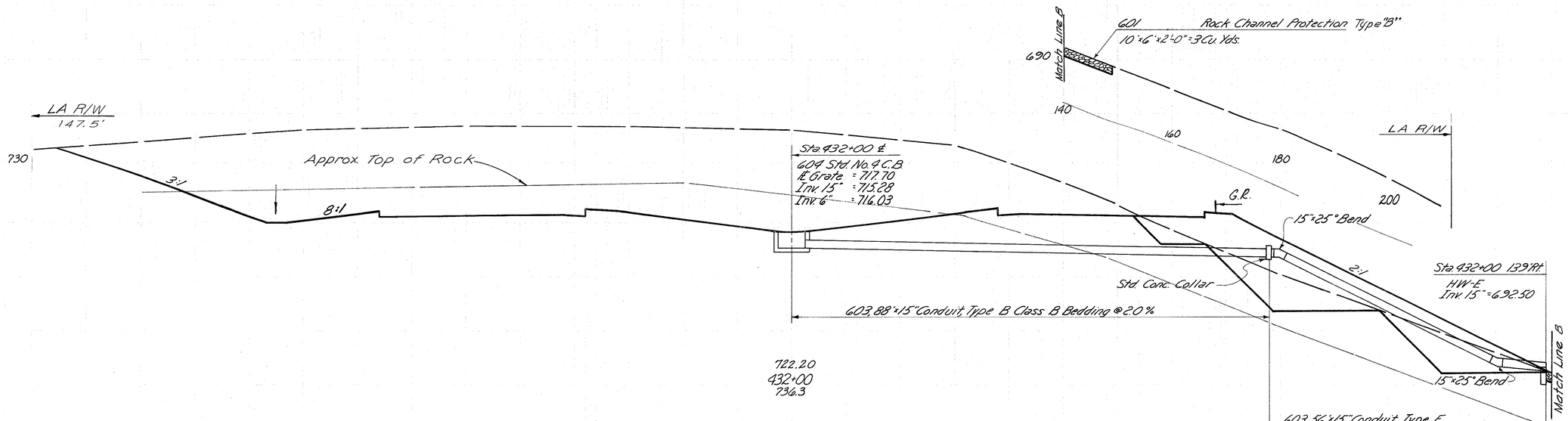
4766 2697

STA. 430+50 - STA. 431+00

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

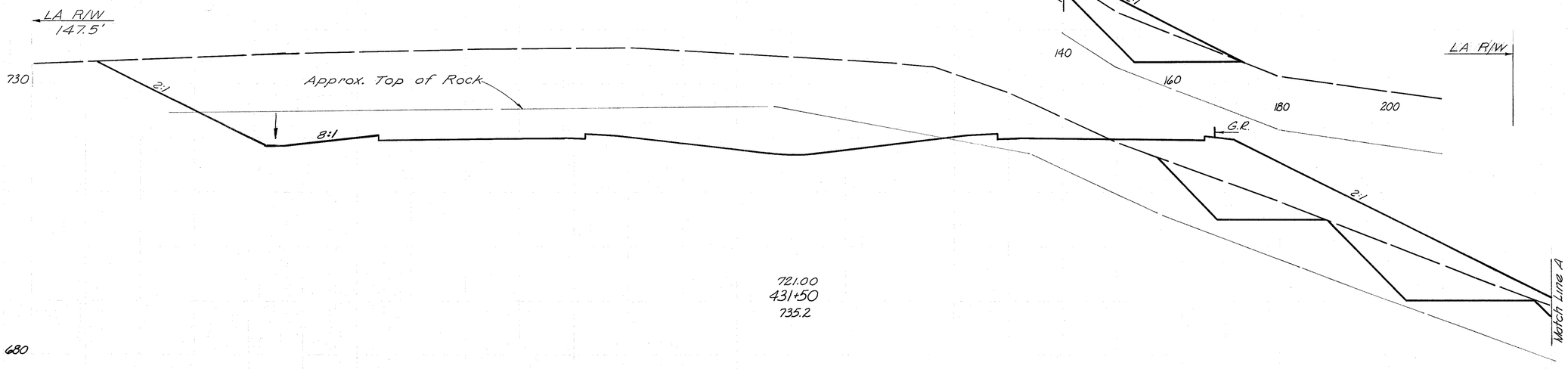
238
638

CLERMONT COUNTY
CLE.-275-6.68



2805 530

680



5345 1309

2968 884

680

5,586 1615

DRAWN T.T.T. DATE 5-23-68
CHECKED R.C.Z. DATE 6-24-68

STA. 431+50 — STA. 432+00

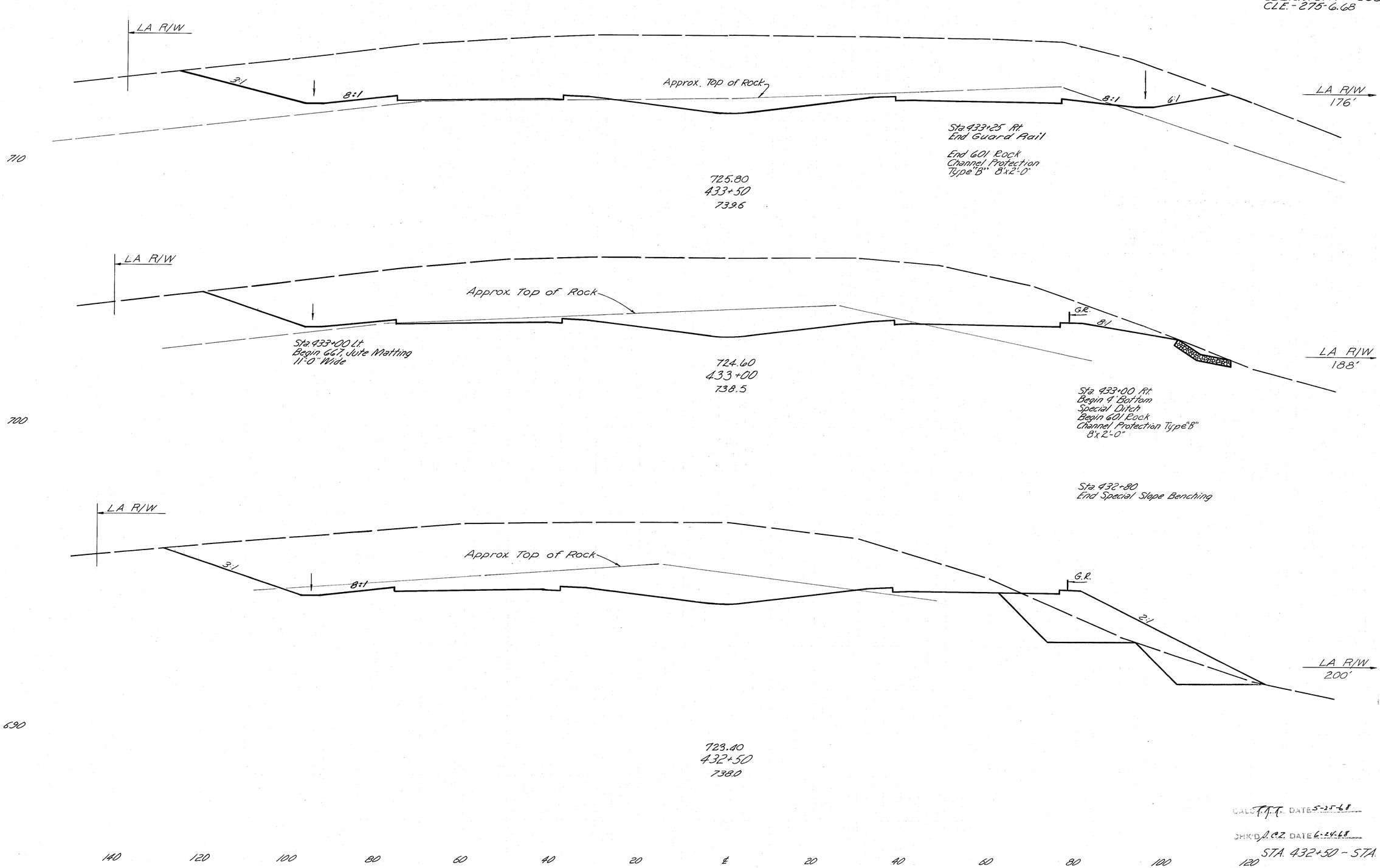
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FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

239
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
2820	0		
		5055	0
2640	0		
		4892	426
2644	460		
		5045	917

CALC. T.T.T. DATE 5-25-68
CHK'D J.C.Z. DATE 6-24-68

STA. 432+50 - STA. 433+50

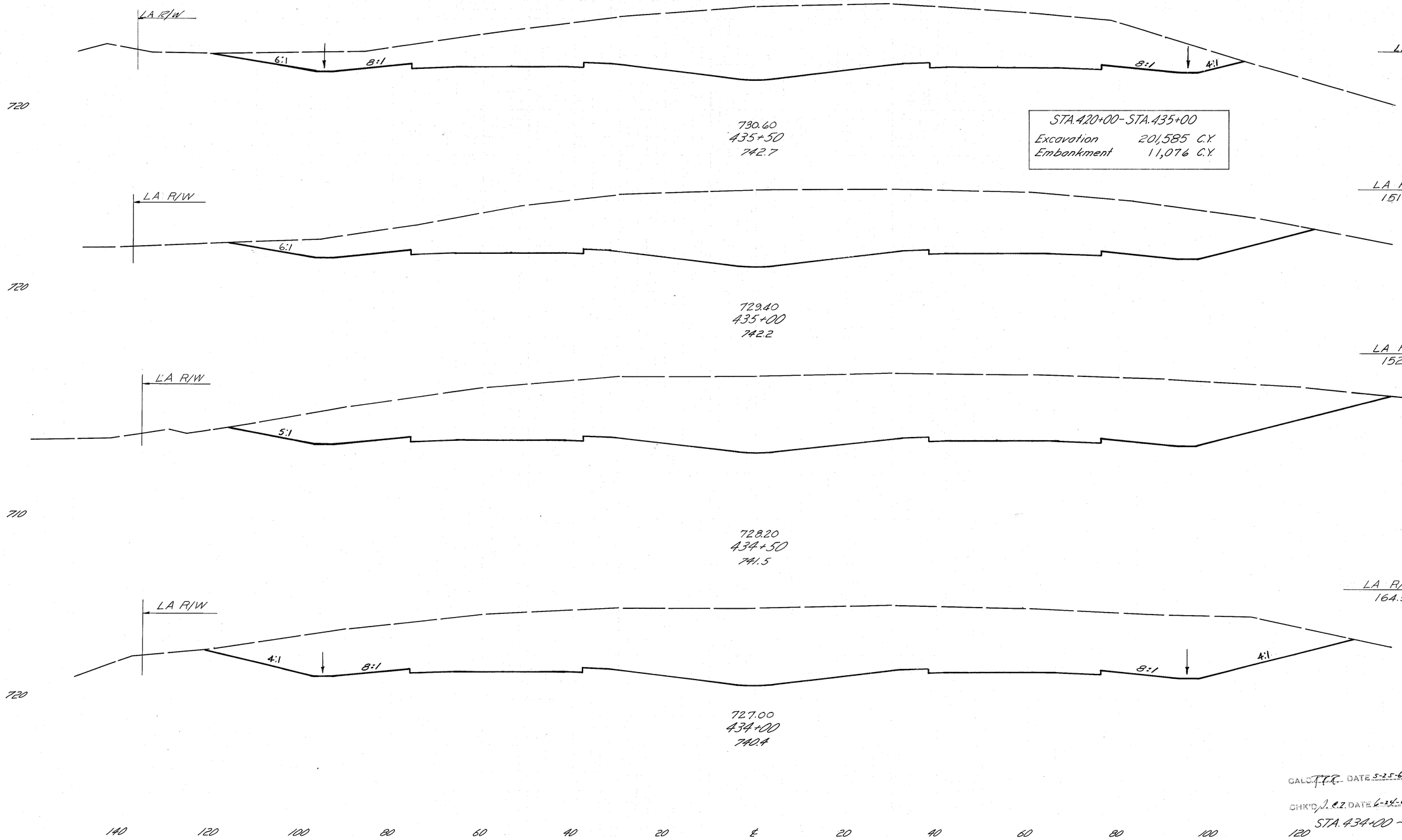
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

240
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



STA. 420+00 - STA. 435+00

Excavation	201,585 C.Y.
Embankment	11,076 C.Y.

LA R/W
2134

LA R/W
151'
2515

LA R/W
152.5
3020

LA R/W
164.5
3092

End Area		Volume	
Cut	Fill	Cut	Fill
2134	0		
		4305	0
2515	0		
		5125	0
3020	0		
		5659	0
3092	0		
		5474	0

CALC. T.T.R. DATE 5-25-68

CHK'D J. E.Z. DATE 6-25-68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 434+00 - STA. 435+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

241
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

720

LA R/W — 2:1 — 8:1 — 8:1 — 4:1 — LA R/W

735.40
437+50
744.1

710

LA R/W — 2:1 — LA R/W

734.20
437+00
743.7

720

LA R/W — 3:1 — LA R/W

733.00
436+50
743.0

710

LA R/W — 4:1 — 8:1 — 8:1 — 4:1 — LA R/W

731.80
436+00
742.9

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

	End Area		Volume	
	Cut	Fill	Cut	Fill
	2096	0		
			3760	0
	1965	0		
			3620	0
	1945	0		
			3730	0
	2084	0		
			3905	0

CALC'D. T.R. DATE 5-25-68

CHK'D. J.C.Z. DATE 6-24-68

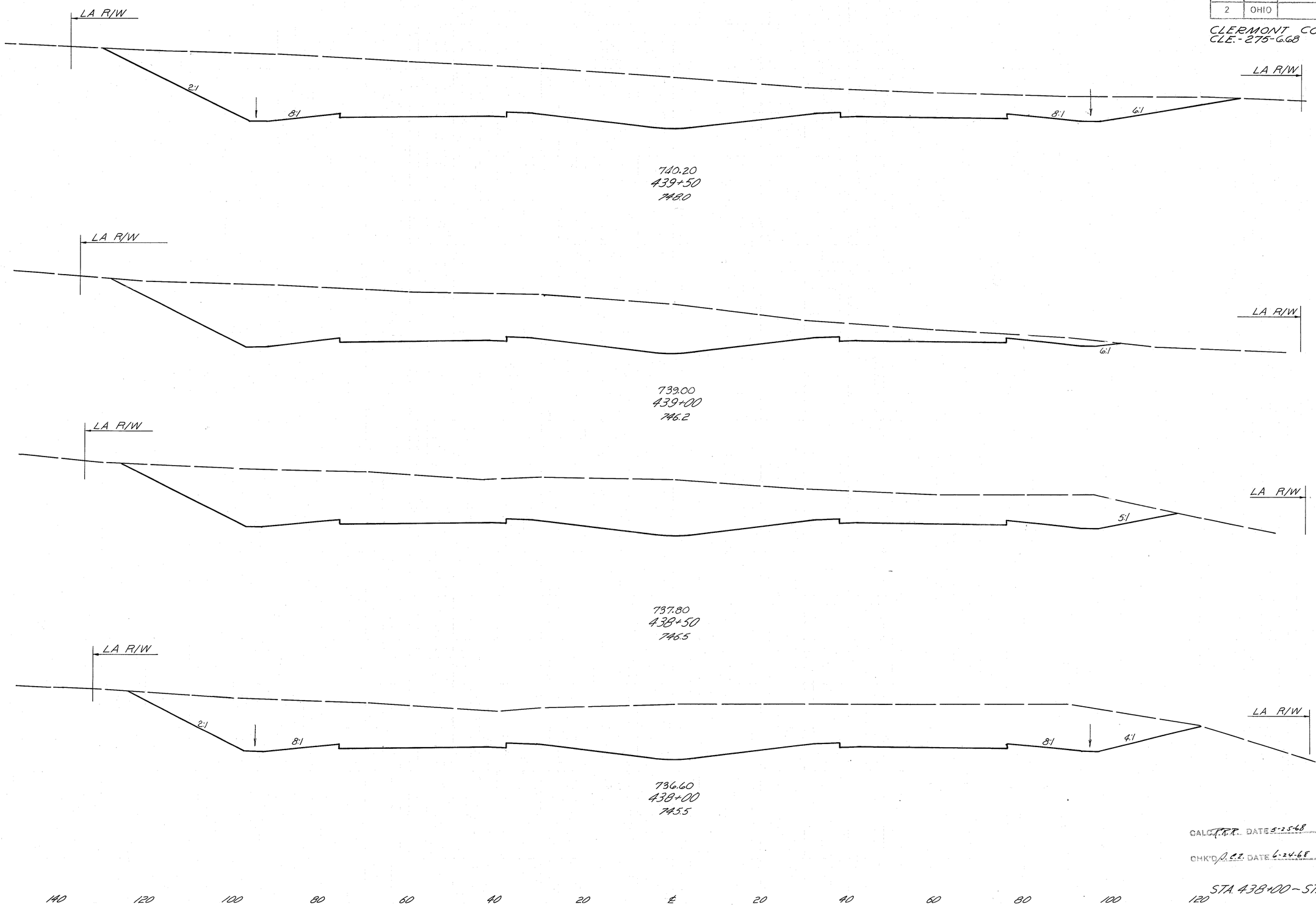
STA. 436+00 – STA. 437+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

242
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
2195	0		
		3678	0
1777	0		
		3627	0
2140	0		
		4083	0
2270	0		
		4042	0

CALC'D. T.R.T. DATE 5-25-68

CHK'D. D.C.C. DATE 6-24-68

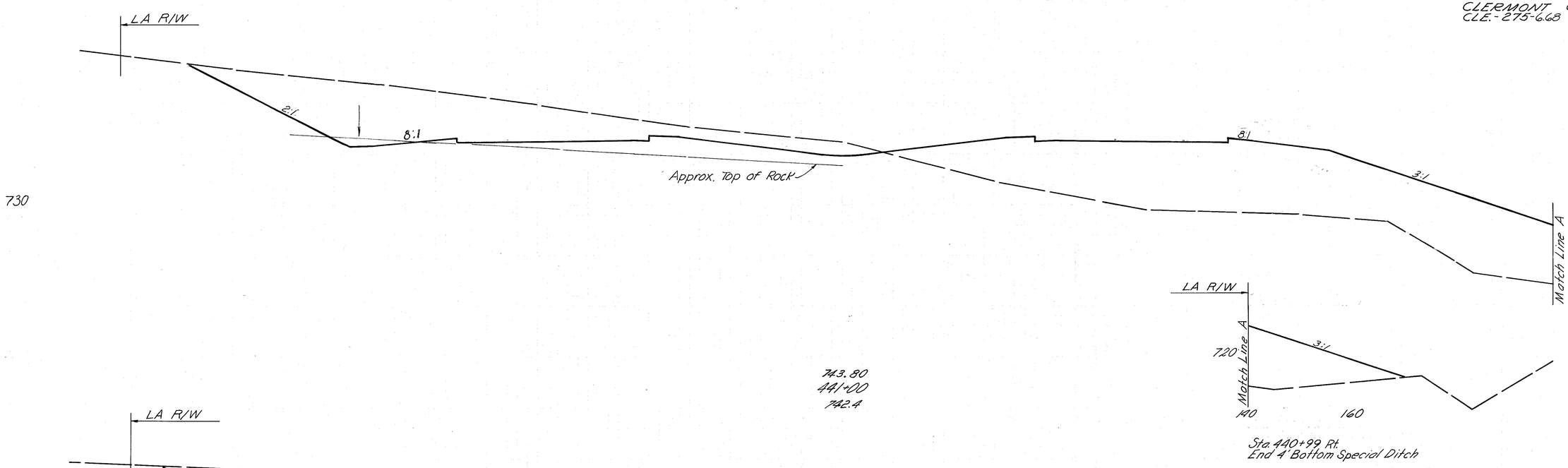
STA 438+00 – STA 439+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

243
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
800	1664		
		2276	1544
1658	4		
		3537	2
2162	0		
		4034	0

CALC. T.R.R. DATE 5-25-68

CHK'D J.C.Z. DATE 6-24-68

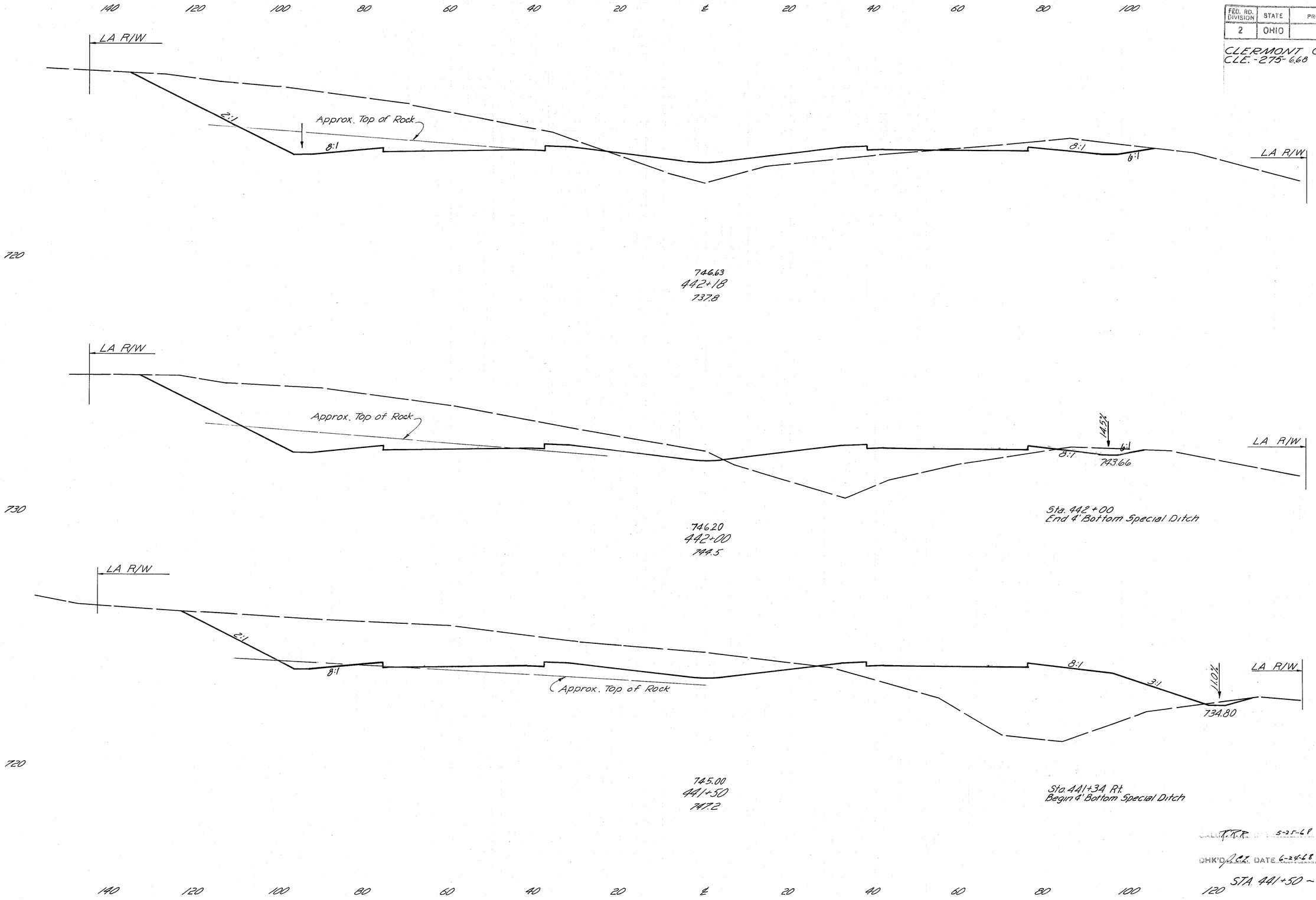
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 440+00 – STA. 441+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

244
638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
1022	190		
		707	205
1100	425		
		1972	1149
1030	816		
		1694	2296

CALC. T.T.R. DATE 5-25-68

CHK'D. DATE 6-24-68

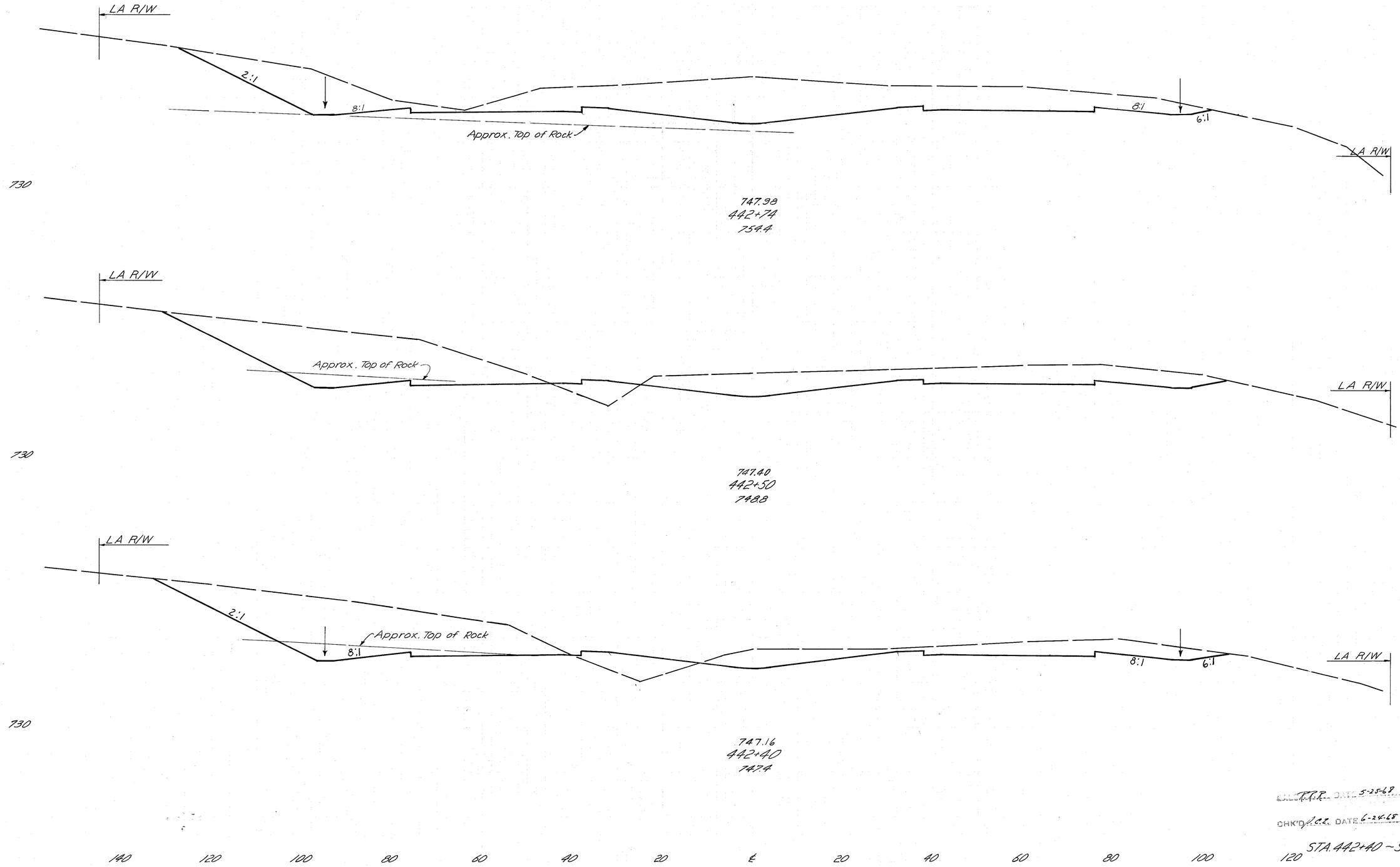
STA. 441+50 ~ STA. 442+18

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

245
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
1198	0		
		1031	29
1121	65		
		401	30
1045	98		
		842	117

CALC. T.R.P. DATE 5-25-68

CHK'D J.C.R. DATE 6-26-68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 442+40 – STA. 442+74

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

246 638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA R/W

2:1

8:1

6.8%

LA R/W

740

Sta. 443+37
End 4' Bottom Special Ditch
End 601
Channel Protection Type B, 10'x 2'-0"

Approximate Top Of Rock

745.0

749.80
443+50
757.2

LA R/W

20.8%

LA R/W

8:1

4:1

3:1

740

744.0

Approximate Top Of Rock

To Existing Swale

749.68
443+45
757.5

Sta. 443+37
Begin 4' Bottom Special Ditch
Begin 601, Rock
Channel Protection Type B, 10'x 2'-0"

2'-0" 2'-0" 2'-0"

10"

6"

LA R/W

SEC. A-A
Sta. 443+25±

Depress 3" To 6"
Below Existing Swale

A

A

1'0"

2:1

8:1

8:1

LA R/W

1'x6'x2'-6"
Cut Off Wall

601 Type 3
Paved Gutter

1'x6'x2'-6"
Cut Off Wall

Approximate Top Of Rock

Sta. 442+80, Rt.
End 4' Bottom Ditch

730

203 Excavation
$\frac{1' \times 4' \times 36'}{27}$ = 5 Cu. Yds.

748.60
443+00
755.5

End Area		Volume	
Cut	Fill	Cut	Fill
1880	0		
		329	2
1682	25		
		2577	21
1410	0		
		5	
		1256	0

CALC. JCZ. DATE 6-24-68

CHK'D R.J.T. DATE 6-25-68

STA. 443+00 ~ STA. 443+50

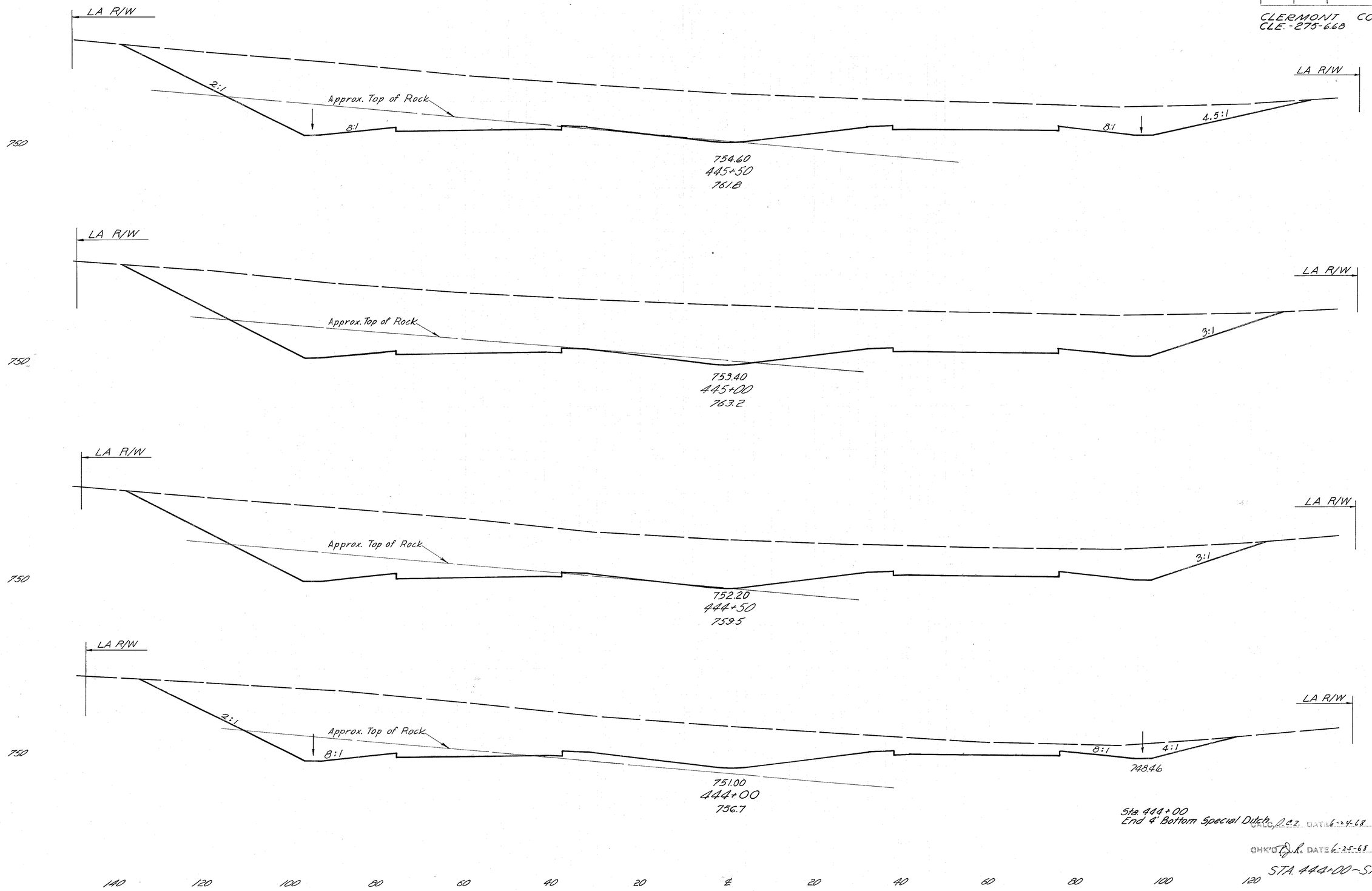
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

247
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
2350	0		
		4779	0
2812	0		
		4835	0
2410	0		
		3972	0
1880	0		
		3481	0

Sta 444+00
End 4' Bottom Special Ditch

CALC. A.C.Z. DATE 6-24-68

CHK'D D.R. DATE 6-25-68

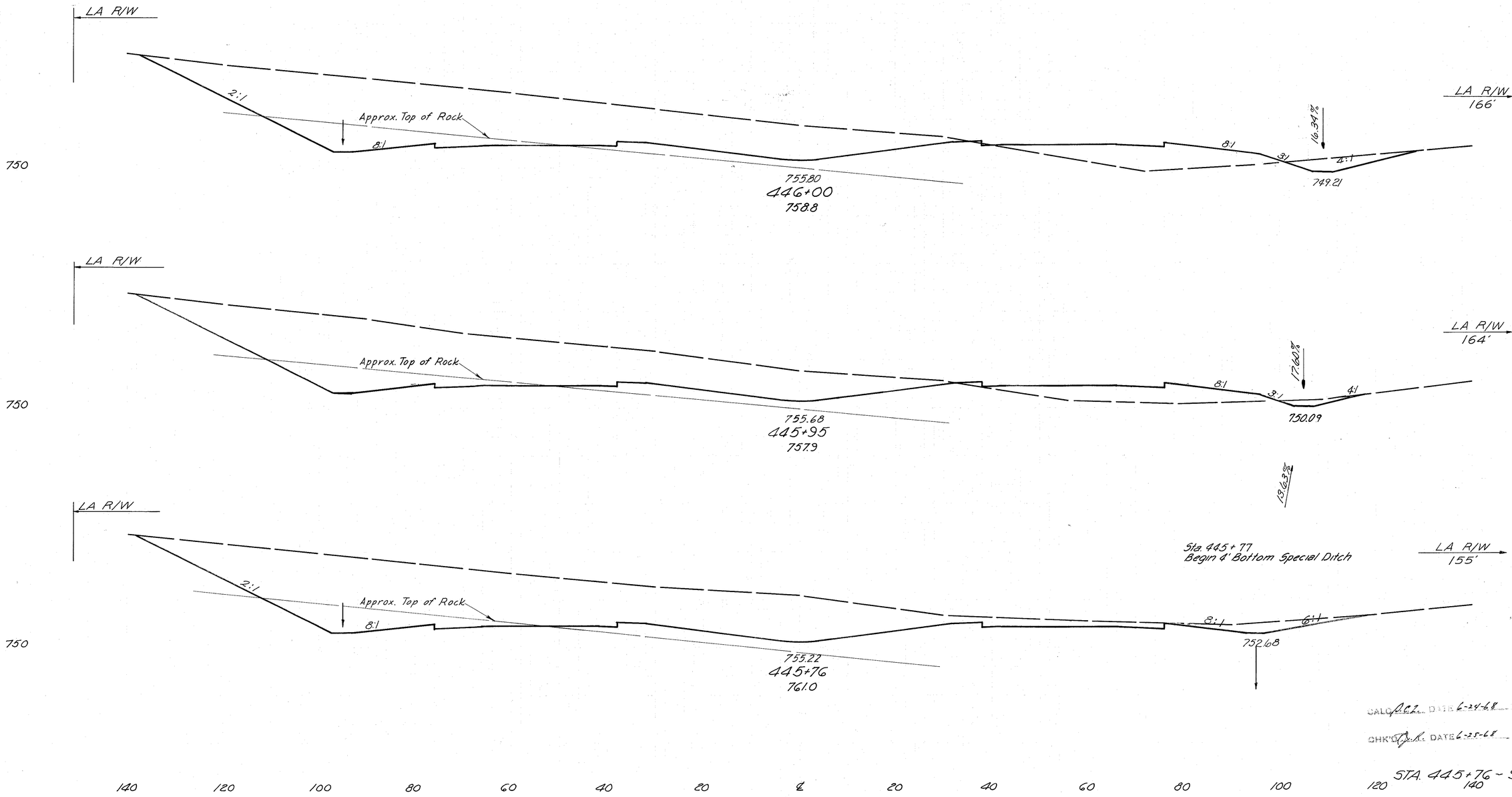
STA 444+00 – STA 445+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

248
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140



	End Area		Volume	
	Cut	Fill	Cut	Fill
	1470	208		
			264	34
	1380	160		
			1089	56
	1715	0		
			1957	0

CALC. A.C.Z. DATE 6-24-68

CHK'D. D.A.L. DATE 6-25-68

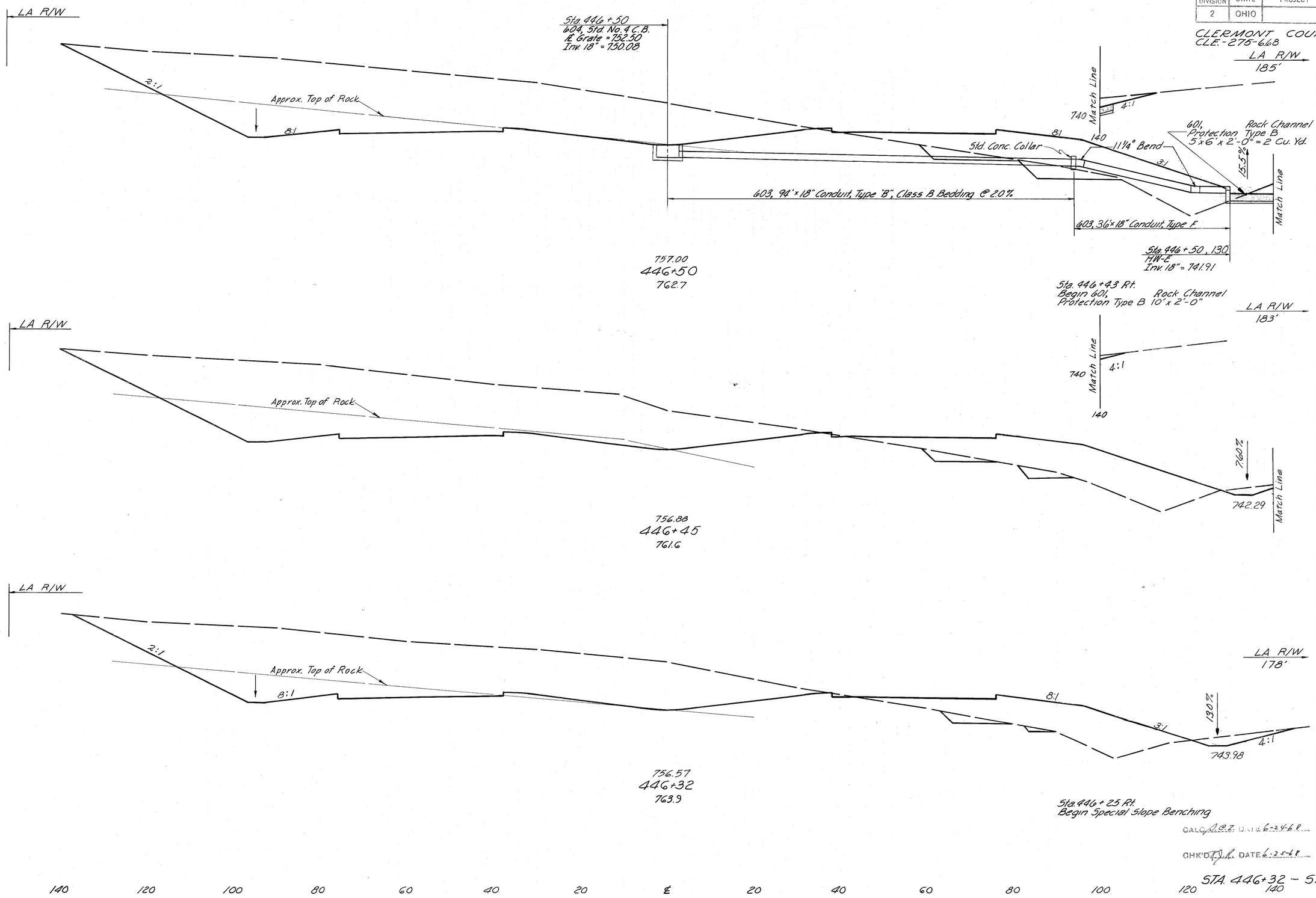
STA. 445+76 - STA. 446+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

249
638

CLERMONT COUNTY
CLE.-275-668

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
1950	550		
		362	99
1960	516		
		919	223
1860	412		
		1973	367

CALC. A.B.Z. DATE 6-24-68

CHK'D [illegible] DATE 6-25-68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

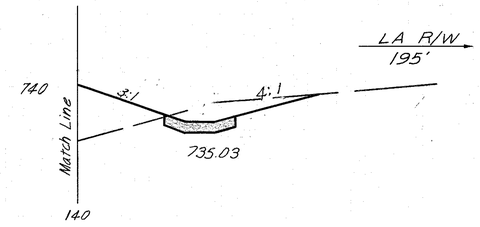
STA. 446+32 – STA. 446+50

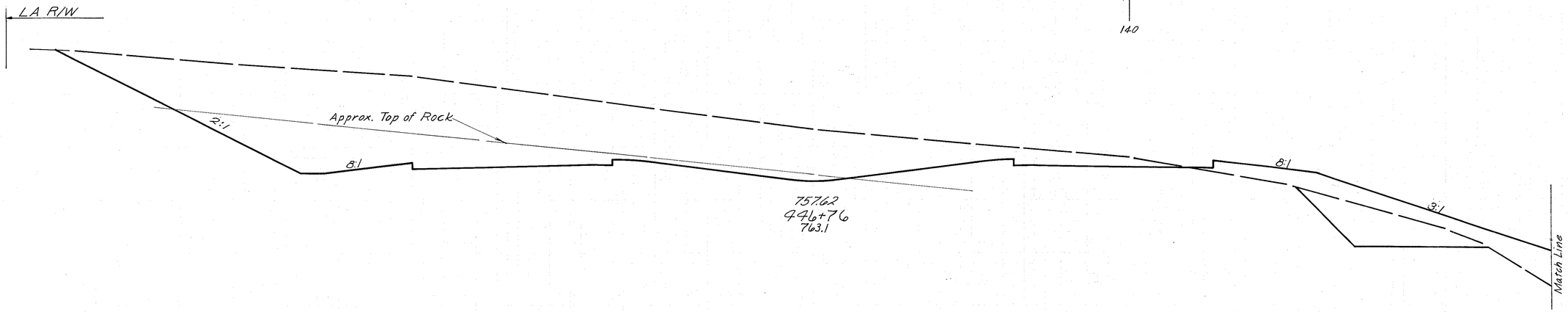
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

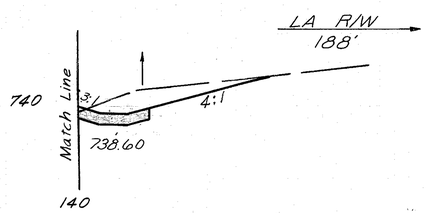
250
638

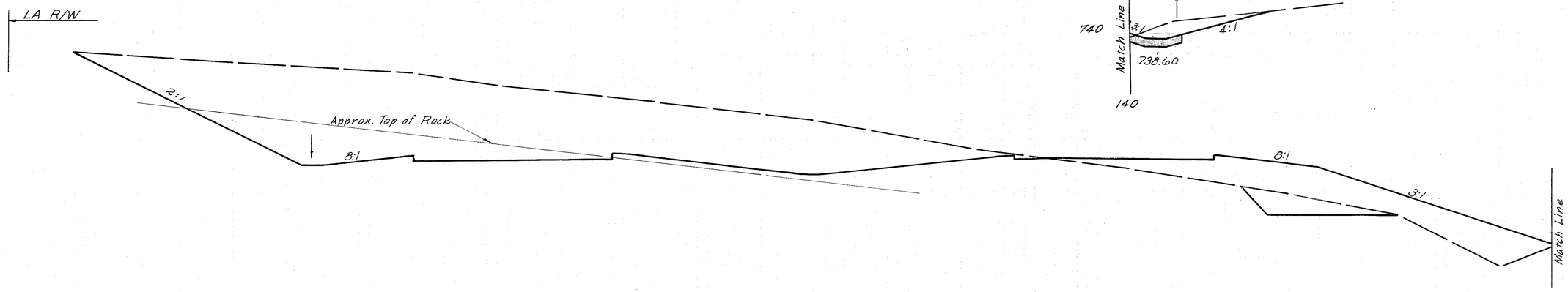
CLERMONT COUNTY
CLE.-275-6.68

Sta. 446+81 Rt.
End 9' Bottom Special Ditch
End 60', Rock Channel
Protection Type B 10' x 2'-0"









End Area		Volume	
Cut	Fill	Cut	Fill
2280	442		
		1425	314
1995	500		
		584	156

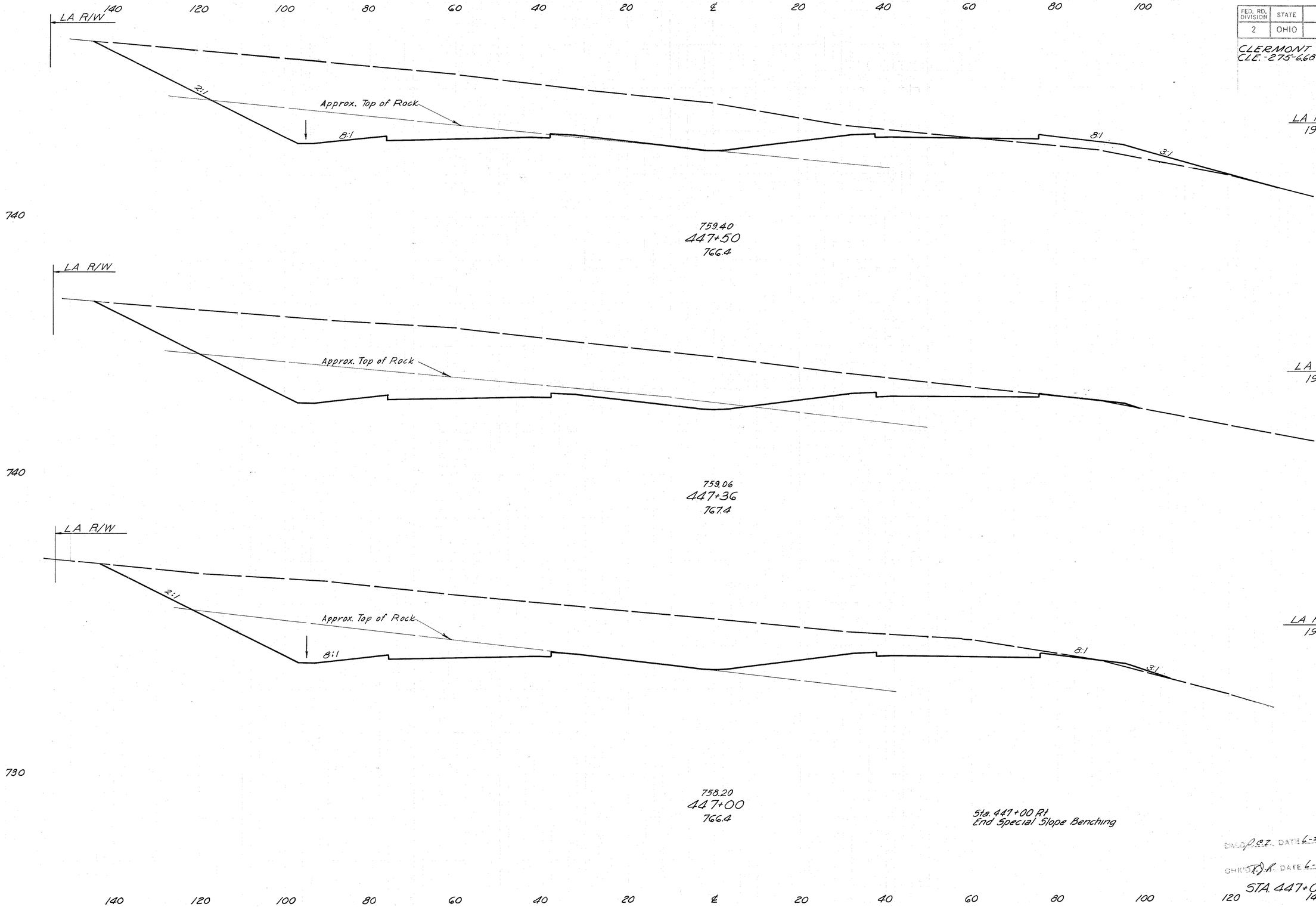
CALC. A.C.Z. DATE 6-24-68
CHK'D T.J.L. DATE 6-25-68

STA. 446+58 – STA. 446+76

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

251
638

CLERMONT COUNTY
CLE.-275-6.68



	End Area		Volume	
	Cut	Fill	Cut	Fill
	2054	50		
			1137	13
	2332	2		
	3701	5		
	2275	5		
	2024	199		

DES. P.C.Z. DATE 6-24-68

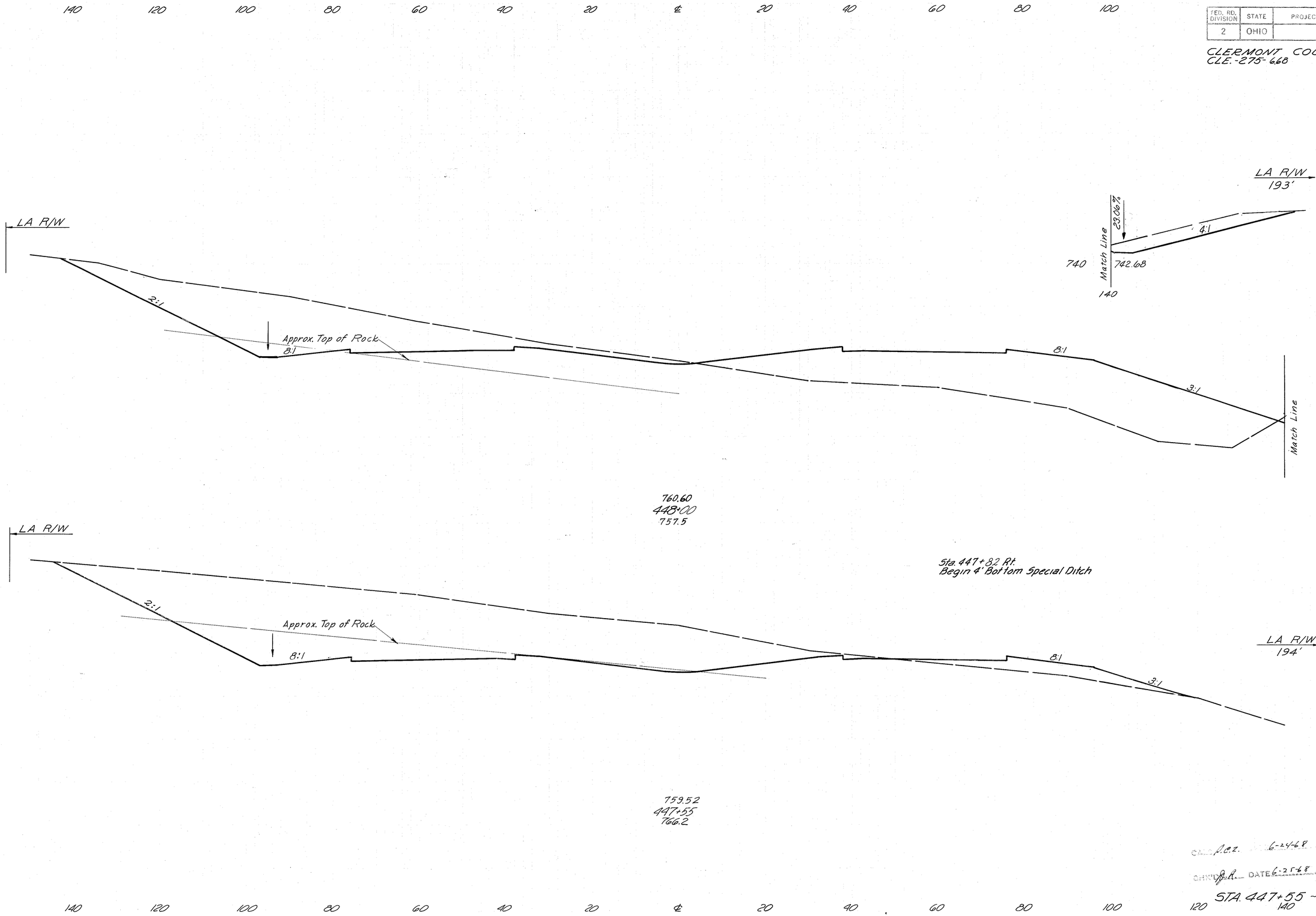
CHK'D T.D.R. DATE 6-25-68

STA. 447+00 - STA. 447+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

252
638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
1012	1180		
		2510	1092
2000	130		
		375	17

CHKD. A.C.Z. 6-24-68

CHKD. J.A. DATE 6-25-68

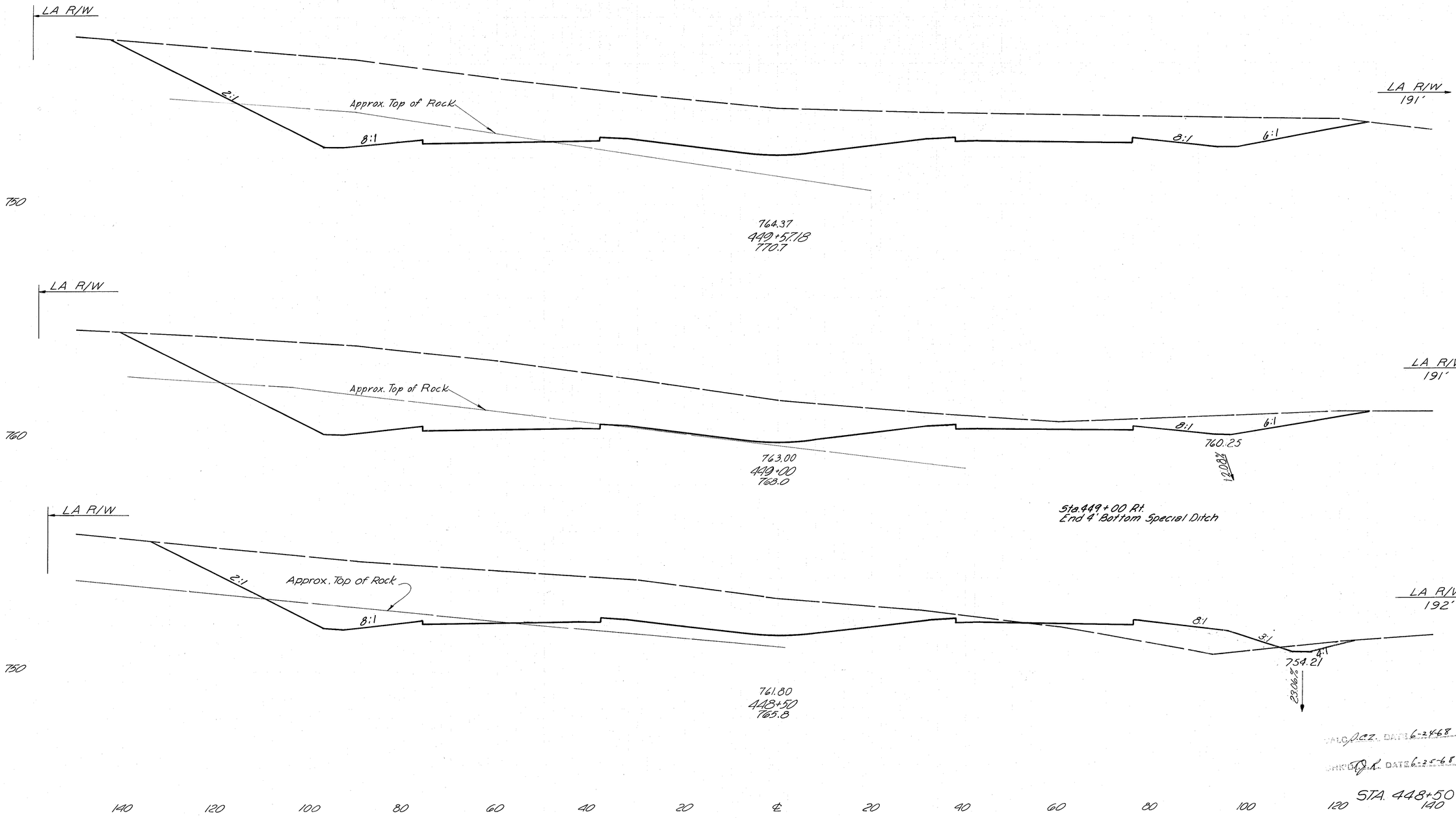
STA. 447+55 ~ STA. 448+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

253
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
2422	0		
		4841	0
2150	0		
		3380	150
1500	162		
		2326	1213

CALC. J.C.Z. DATE 6-24-68

CHKD. D.R. DATE 6-25-68

STA. 448+50 ~ STA. 449+57.18

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

254
638

CLERMONT COUNTY
CLE-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA R/W

2:1

Approx. Top of Rock

8:1

760

8:1

3:1

LA R/W
189'

766.36
450+40
766.9

End Area		Volume	
Cut	Fill	Cut	Fill
1472	1012		
		1131	522
1582	479		
		1152	200
1535	60		
		3138	48

LA R/W

Approx. Top of Rock

760

2:1

LA R/W
189'

765.88
450+20
767.8

LA R/W

2:1

Approx. Top of Rock

8:1

760

8:1

3:1

LA R/W
190'

765.40
450+00
767.7

Sta 450+10 Rt.
End 4' Bottom Ditch

STA. 435+00 - STA. 450+00		
Excavation	104,483	C.Y.
Embankment	9,411	C.Y.

CALC. DCZ DATE 6-25-68

CHKD. D.L.K. DATE 6-25-68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 450+00 - STA. 450+40

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

255
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

760

LA R/W

8:1

Approx. Top of Rock

769.31
451+63
772.3

Sta. 451+85 Rt.
End Special Slope Benching

Match Line D-D
750
740
140
160
8:1
3:1
9.62%
11.45%
743.72
LA R/W
186'

Match Line C-C
750
740
140
160
11.45%
742.46
LA R/W
186'

769.05
451+52
772.0

Sta. 451+26 Rt.
Begin 4' Bottom Special Ditch
Begin 601 Rock Channel
Protection Type B 124'x10'x2'-0"

Match Line B-B
750
740
140
160
LA R/W
187'

767.80
451+00
764.5

Match Line A-A
750
740
140
160
180
LA R/W
188'

767.20
450+75
762.5

Sta. 450+50 Rt.
Begin Special Slope Benching

END AREA		VOLUME	
CUT	FILL	CUT	FILL
1812	1556		
		681	594
1532	1358		
		2468	2120
1031	844		
		1048	1254
1233	1864		
		1753	1864

CALC. A.R.Z. DATE 6-24-68
CHKD. T.J.R. DATE 6-25-68

STA. 450+75 — STA. 451+63

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

250
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

760

LA R/W

2:1

Approx. Top of Rock

8:1

772.60
453+00
777.6

LA R/W
182'

760

LA R/W

Approx. Top of Rock

772.14
452+81
774.5

LA R/W
183'

760

LA R/W

Approx. Top of Rock

771.30
452+46
767.7

LA R/W
184'

Match Line B-B

750

752.71

140

11.80%

160

LA R/W

771.30
452+46
767.7

Match Line A-A

750

11.80%

747.28

140

8.62%

160

LA R/W
185'

Sta. 452+46 Rt.
End 4' Bottom Special Ditch
End 60' Rock Channel
Protection Type B 124' x 10' x 2'-0"

Note: Sta. 452+05 to Sta. 452+39 Lt.
203, Embankment
$\frac{43' \times 2.5' \times 0.3333}{27}$ = 2 Cu. Yd.

760

LA R/W

2:1

Approx. Top of Rock

8:1

770.20
452+00
770.5

8:1

3:1

Match Line A-A

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
1670	86		
		1035	98
1270	193		
		1410	502
905	582		
		1871	1392
			2
1291	1052		
		2127	1787

CHK'D. ACZ. DATE 6-24-68

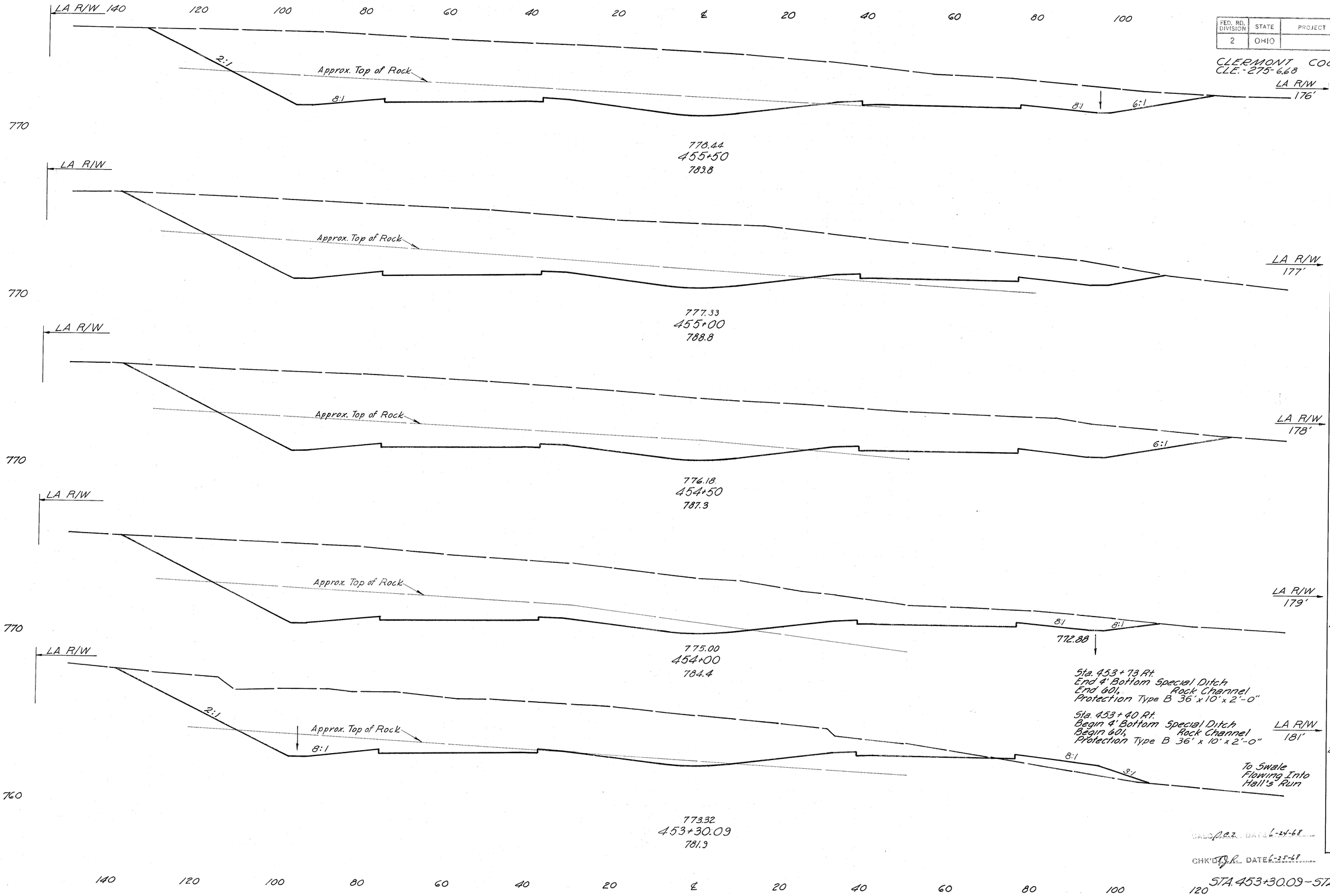
CHK'D. D.R. DATE 6-25-68

STA. 452+00 – STA. 453+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

257
638

CLERMONT COUNTY
CLE.-275-6.68



END AREA		VOLUME	
CUT	FILL	CUT	FILL
2701	0		
		5164	0
2876	0		
		5456	0
3016	0		
		5117	0
2510	0		
		5852	66
2010	51		
		2051	76

CALC. P.E.Z. DATE 1-24-68

CHK'D D.R. DATE 1-25-68

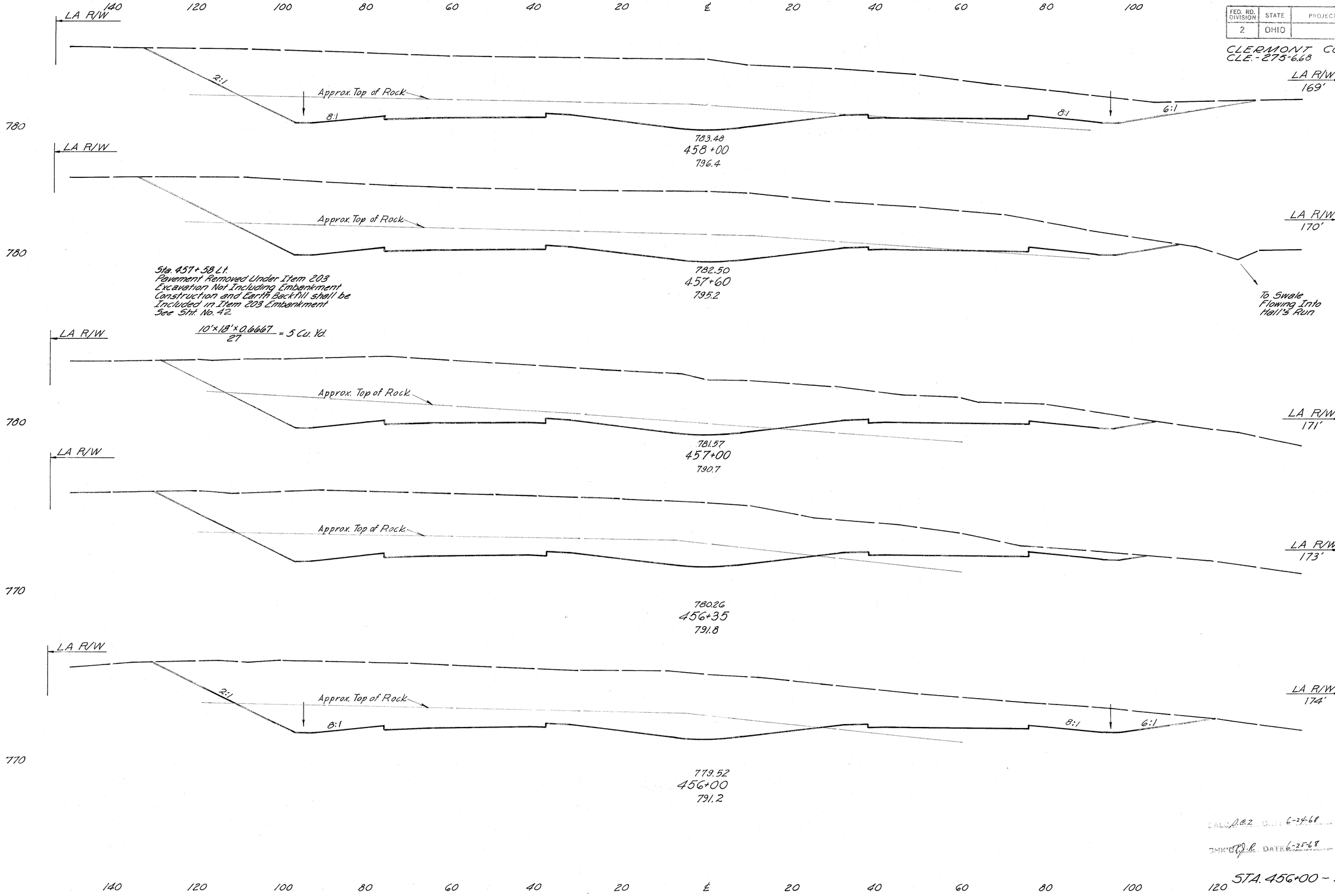
STA. 453+30.09 – STA. 455+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

258
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
2845	0		
		4187	0
2808	0		
		5737	0
		5	5
2355	0		
		5681	0
2369	0		
		3260	0
2665	0		
		4969	0

CALC. J.B.Z. DATE 6-24-68
CHK'D D.J.R. DATE 6-25-68

STA. 456+00 – STA. 458+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

259
638

CLERMONT COUNTY
CLE.-275-6.68

	End Area		Volume	
	Cut	Fill	Cut	Fill
460+03	2603	18		
			484	3
459+98	2630	15		
			491	2
459+93	2710	10		
			4529	8
459+50	2998	0		
			5835	0
459+00	3324	0		
			28	
458+50	3390	0	6216	0
			5773	0

780 LA R/W — 140 120 100 80 60 40 20 ℄ 20 40 60 80 100 — LA R/W 163'

Approx. Top of Rock

2:1, 8:1, 4:1

781.2

786.95
460+03
799.1

18" Conduit

780 LA R/W — LA R/W 164'

Approx. Top of Rock

780.7

786.85
459+98
797.6

18" Conduit

Sta. 459+75, 45' Rt.
End 4' Bottom Special Ditch

Sta. 459+87, 132' Rt.
Begin 4' Bottom Special Ditch
Begin 601 Rock Channel
Protection Type B 84' x 10' x 2'-0"

780 LA R/W — LA R/W 164'

Approx. Top of Rock

780.2

786.77
459+93
799.4

18" Conduit

Sta. 459+50, 22' Rt.
604, Std. No. 1-A M.H.
Top Elev. = 784.21
So. Inv. 18" = 778.64
E. Inv. 18" = 778.64
Inv. 21" = 778.39
Inv. 6" = 781.00

Sta. 459+50 ℄
604, Std. No. 4 C.B.
R. Grate = 781.58
Inv. 18" = 779.08
Inv. 6" = 780.00

MATCH LINE "A"

770 HW-E — A — LA R/W — A — Existing Swale

601, Rock Channel Protection Type B
14' x 6' x 3'-0" = 8 Cu. Yd.

To Swale

Sta. 459+50, 154' Rt.
Inv. 21" = 775.75

140

8:1, 6:1

780 LA R/W — LA R/W 166'

Approx. Top of Rock

784.08 — 2.0% — 2.0%

459+50
798.8

603, 22' x 18" Conduit, Type "C", Class B Bedding @ 2.0%

603, 132' x 21" Conduit, Type "B", Class B Bedding @ 2.0%

780 LA R/W — LA R/W 167'

Approx. Top of Rock

785.25
459+00
798.3

Sta. 459+50
Channel Excavation from Outlet
$\frac{26' \times 3' \times 8}{27}$ = 23 Cu. Yd.

Area Behind Headwall
$\frac{12' \times 2' \times 6}{27}$ = 5 Cu. Yd.

2' 2' 2' Sta. 459+50
6"
2'-6"
SECTION A-A
357 Coarse Aggregate

780 — 2:1, 8:1, 6:1 — Approx. Top of Rock

784.38
458+50
797.7

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

CALC. JAZ DATE 6-24-68

CHK'D. R.S.R. DATE 6-25-68

STA. 458+50 – STA. 460+03

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

2GO 638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

790

LA R/W

2:1 8:1 Approx. Top of Rock 3:1 8:1

18" Conduit

789.72
462+00
804.7

LA R/W 158'

790

LA R/W

Approx. Top of Rock

789.45
461+79.20
803.1

LA R/W 159'

780

LA R/W

Approx. Top of Rock

789.06
461+50
800.6

LA R/W 160'

780

LA R/W

Approx. Top of Rock 8:1 3:1

788.37
461+00
796.3

LA R/W 161'

790

LA R/W

Approx. Top of Rock 2:1 8:1 8:1 3:3:1 4:1

787.64
460+50
798.3

18" Conduit

Sta. 460+58 End 4' Bottom Special Ditch

785.0

LA R/W 162'

Sta 460+60 Rt.
End 601 Rock
Channel Protection Type B 84'x10'x2'-0"

	End Area		Volume	
	Cut	Fill	Cut	Fill
	3509	0		
			2625	0
	3306	0		
			3462	0
	3140	0		
			5398	0
	2690	0		
			4828	0
	2524	0		
			4463	16

CALC. J.E.Z. DATE 6-24-68
CK'D. T.J.R. DATE 6-25-68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

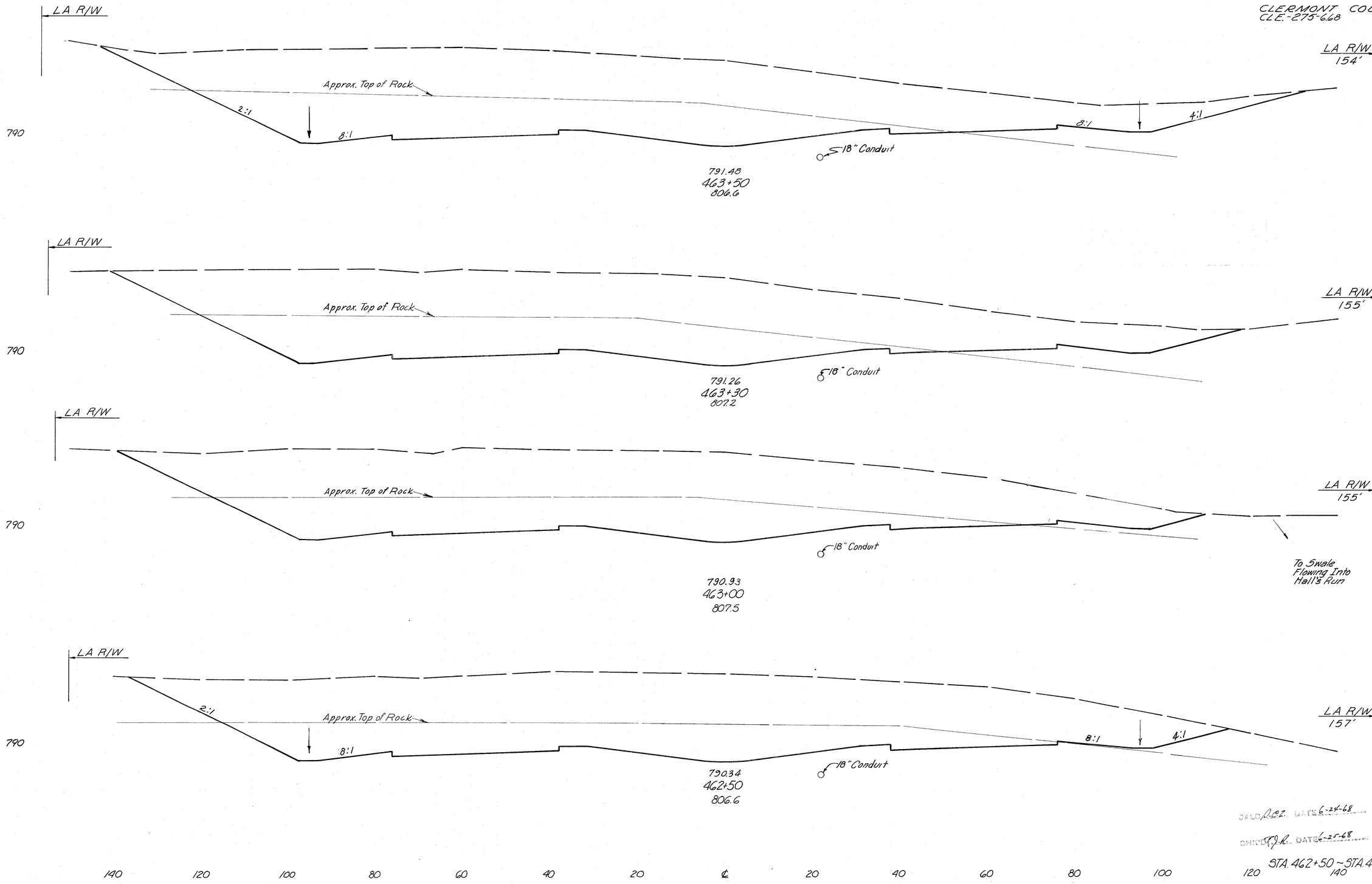
STA. 460+50 – STA. 462+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

261
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



	End Area		Volume	
	Cut	Fill	Cut	Fill
	3555	0		
			2629	0
	3542	0		
			3924	0
	3522	0		
			6620	0
	3628	0		
			6608	0

DESIGNED DATE 6-24-68

CHECKED DATE 6-25-68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 462+50 ~ STA. 463+50
140

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

262
6.38

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA R/W 165'

Approx. Top of Rock

2:1

8:1

790

793.50
465+50
8120

5-18" Conduit

LA R/W 150'

2:1

8:1

STA. 450+00 - STA. 465+00

Excavation	144,964 C.Y.
Embankment	10,511 C.Y.

LA R/W 165'

Approx. Top of Rock

790

793.00
465+00
807.6

LA R/W 150'

LA R/W 162'

Sta. 464+50, 22' Rt.
604, Std. No. 1-A M.H.
Top Elev.=790.83
Inv. 18" = 785.54

Approx. Top of Rock

790

792.50
464+50
806.1

LA R/W 151'

2:1

LA R/W

Approx. Top of Rock

2:1

8:1

790

792.00
464+00
804.6

18" Conduit

LA R/W 153'

8:1

3:1

	End Area		Volume	
	Cut	Fill	Cut	Fill
	4905	0		
			8535	0
	4313	0		
			7904	0
	4224	0		
			7424	0
	3795	0		
			3565	0

CALC. ACZ DATE 6-24-68

CHK'D. D.K. DATE 6-25-68

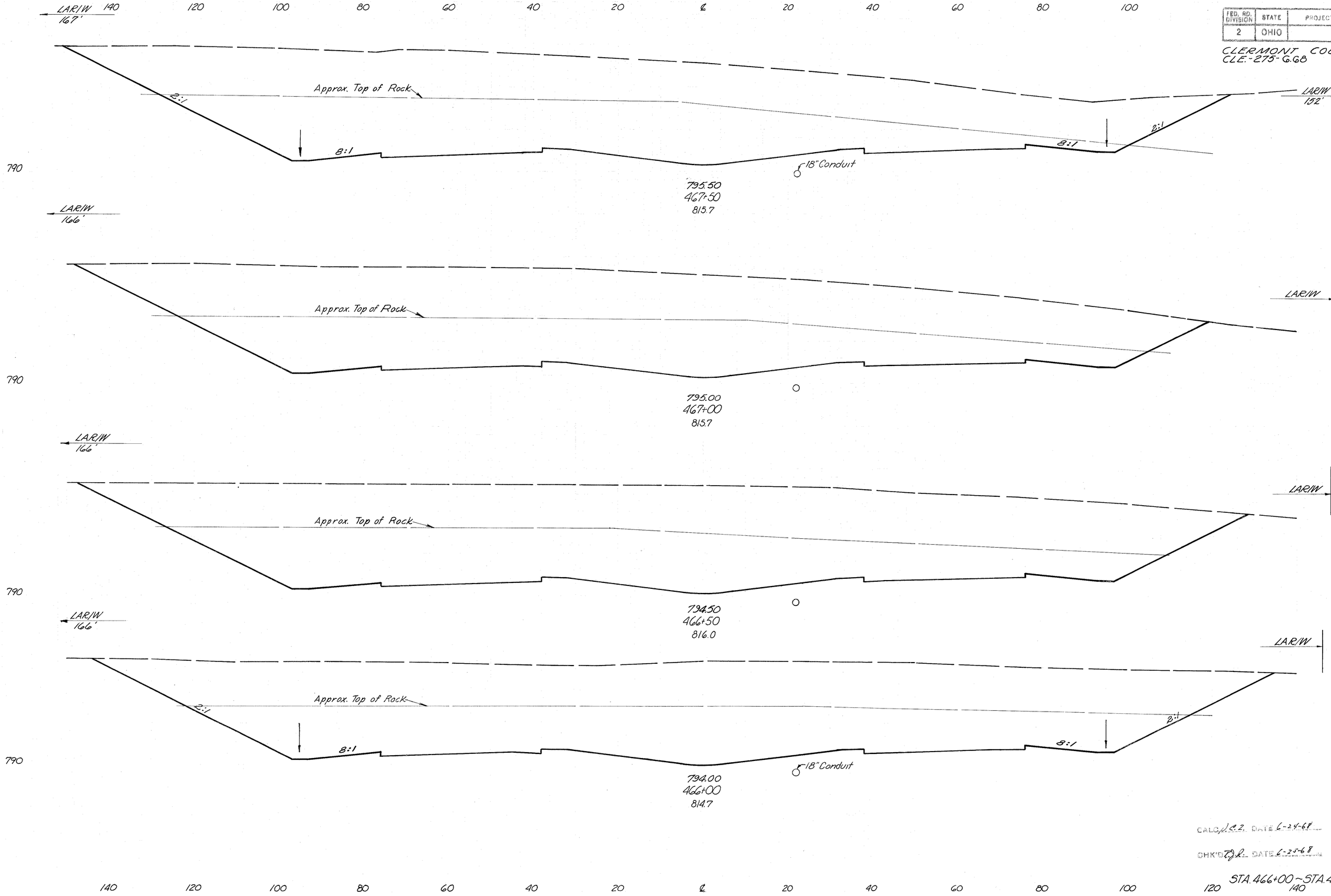
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 464+00 - STA. 465+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

263
638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
4920	0		
		9078	0
4885	0		
		9412	0
5120	0		
		9606	0
5095	0		
		9259	0

CALC. J.C.Z. DATE 6-24-68

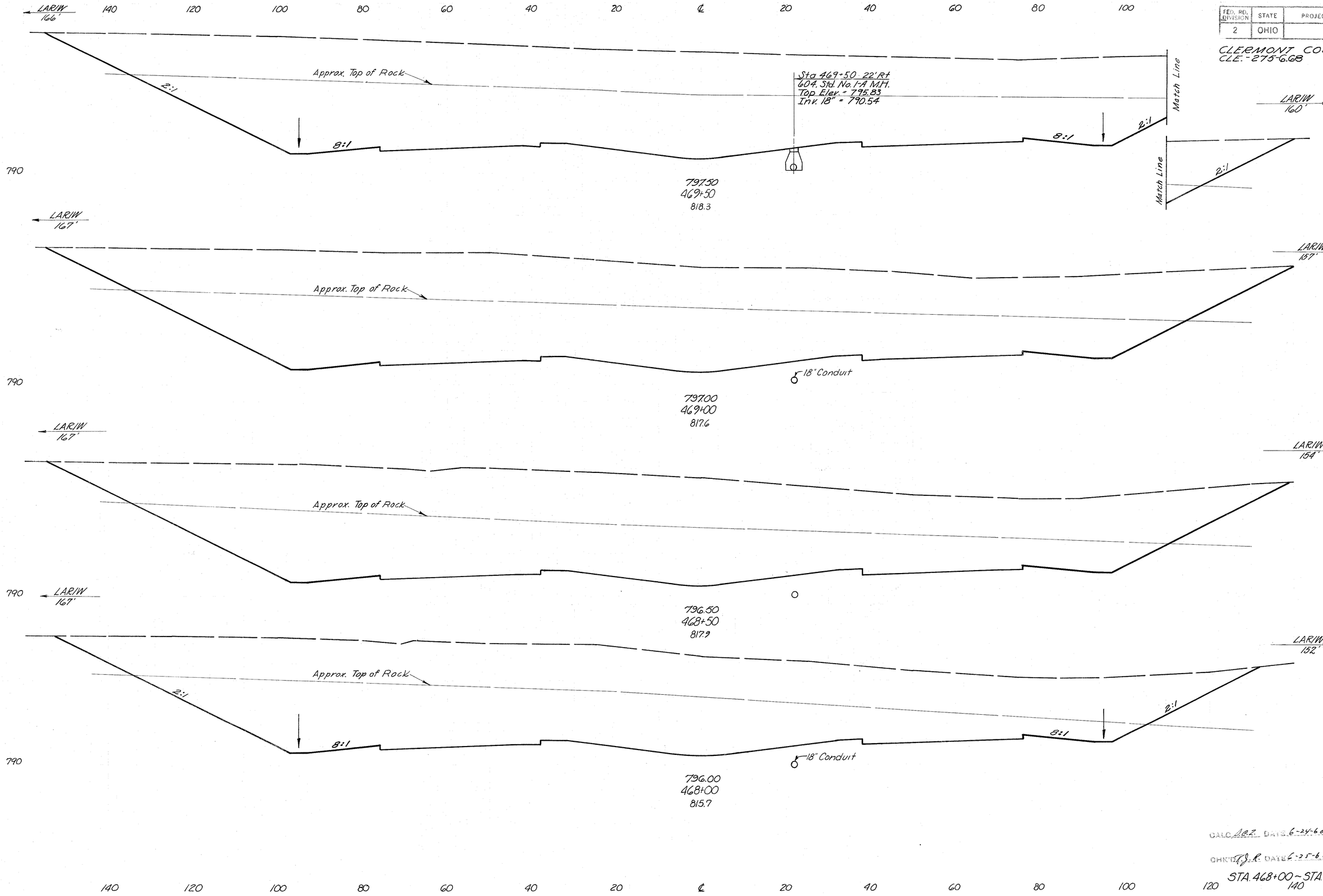
CHK'D. D.R. DATE 6-25-68

STA. 466+00 ~ STA. 467+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

264
638

CLERMONT COUNTY
CLE.-275-6.68



	End Area		Volume	
	Cut	Fill	Cut	Fill
LAR/W 160'	5715	0		
			10574	0
LAR/W 157'	5705	0		
			10389	0
LAR/W 154'	5520	0		
			9886	0
LAR/W 152'	5157	0		
			9330	0

CALC. J.B.Z. DATE 6-24-68

CHKD. D.R. DATE 6-25-68

STA. 468+00 ~ STA. 469+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

End Area		Volu	
Cut	Fill	Cut	F
5672	0		
		10607	
5786	0		
		10765	
5840	0		
		10770	0
5792	0		
		10654	0

CALC. RJR DATE 6/25/68
CHK'D RHH DATE 6/26/68

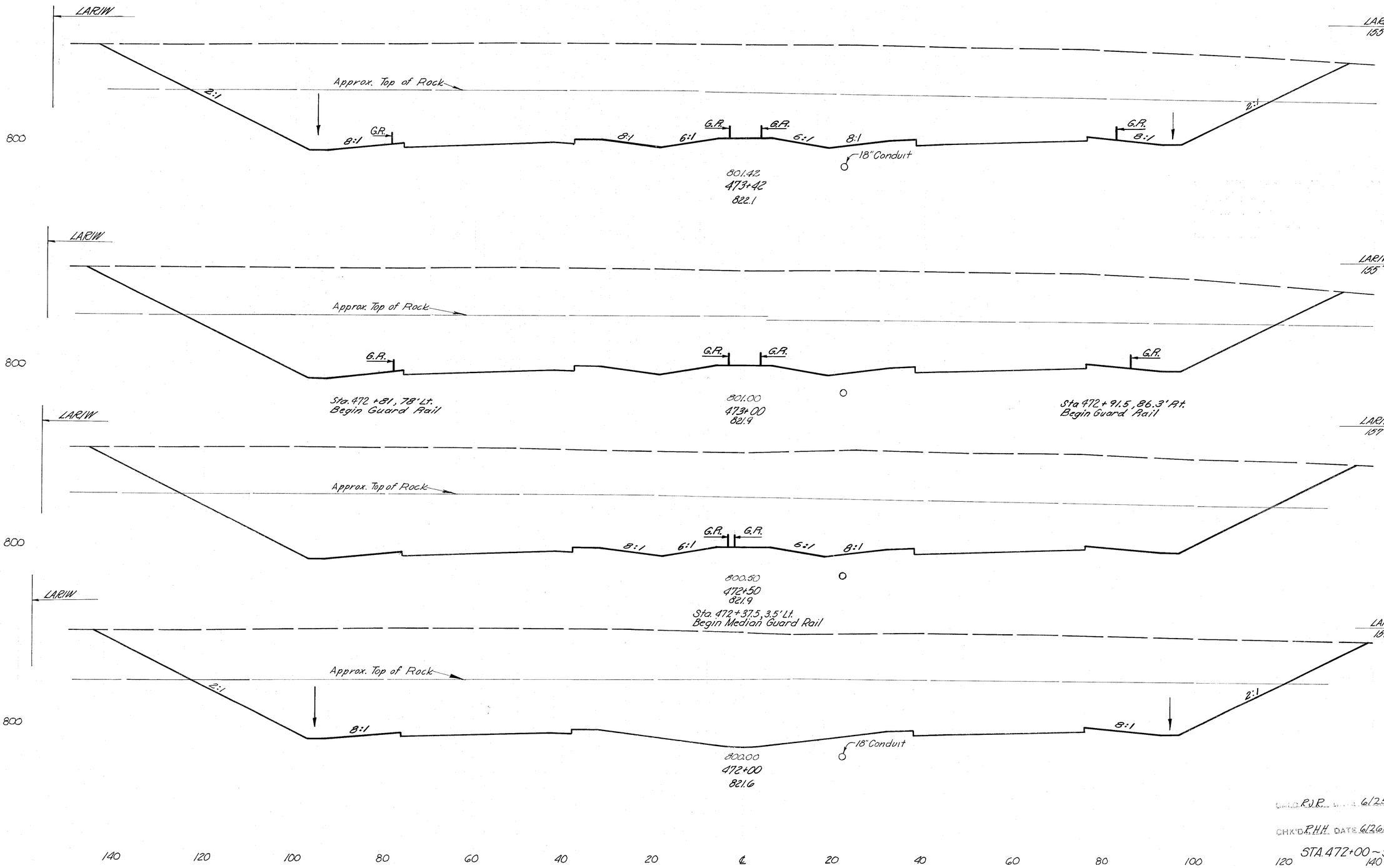
STA. 470+00 – STA. 471+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

266
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
5180	0		
		8129	0
5303	0		
		9886	0
5374	0		
		10052	0
5515	0		
		10358	0

DES'D R.J.R. DATE 6/25/68

CHK'D R.H.H. DATE 6/26/68

STA. 472+00 ~ STA. 473+42

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

267
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

	End Area		Volume	
	Cut	Fill	Cut	Fill
LAR/W 152'				
	4832	0		
			8948	0
LAR/W 152'				
	4812	0		
			8978	0
LAR/W 154'				
	4884	0		
			9069	0
LAR/W 162'				
	4905	0		
			10800	0

CALC. R.J.R. DATE 6/25/68

CHK'D R.H.H. DATE 6/26/68

STA. 474+00 – STA. 475+50

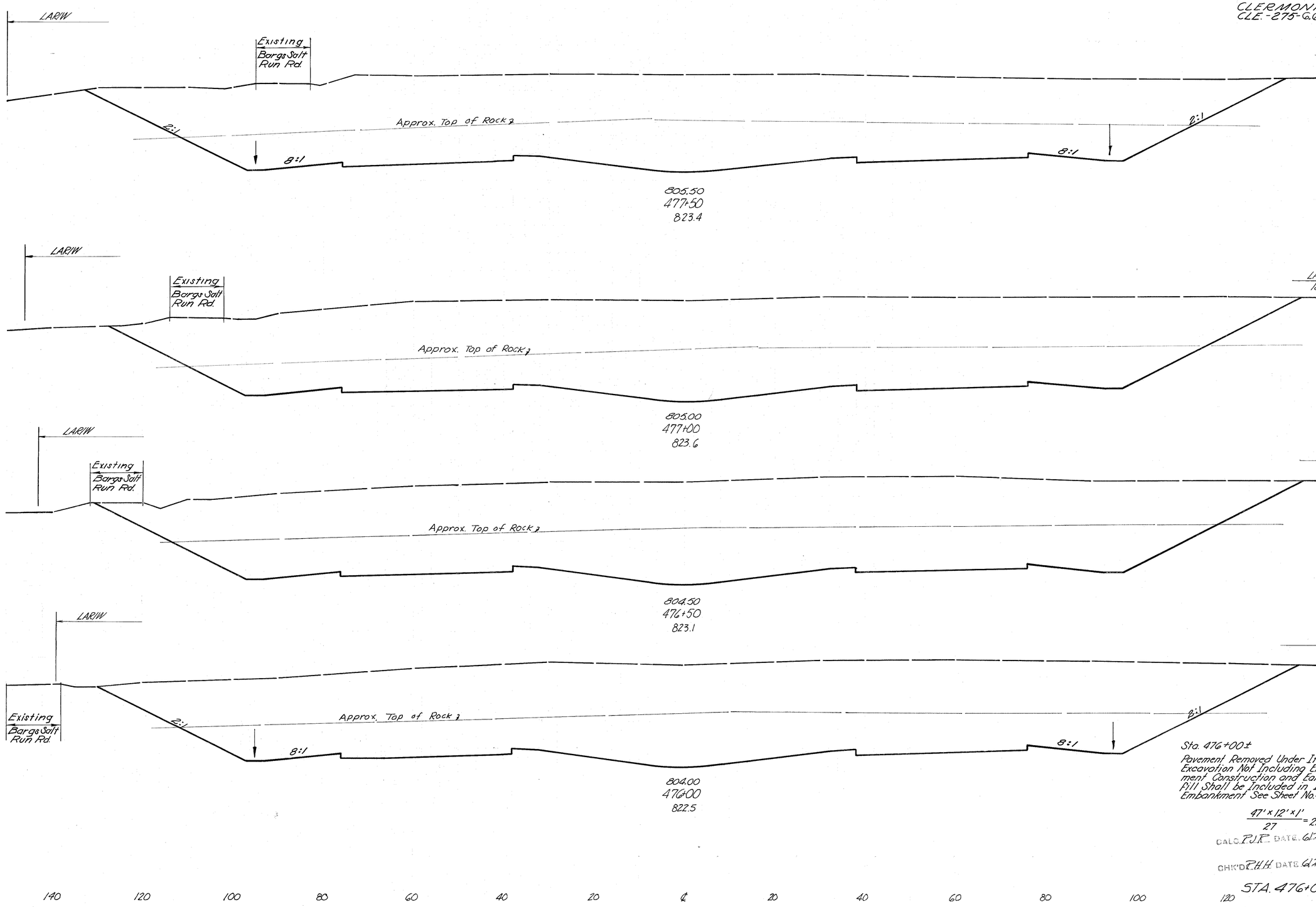
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FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

268
638

CLERMONT COUNTY
CLE.-275-0.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



	End Area		Volume	
	Cut	Fill	Cut	Fill
4390	0			
			8905	0
4580	0			
			8518	0
4620	0			
			8574	0
4640	0			
			21	21
4289	0			

Sta. 476+00±
Pavement Removed Under Item 203 Excavation Not Including Embankment Construction and Earth Backfill Shall be Included in Item 203 Embankment See Sheet No. 44

$\frac{47' \times 12' \times 1'}{27} = 21$ Cu. Yds.

CALC. P.J.R. DATE 6/25/68.

CHK'D. R.H.H. DATE 6/26/68.

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

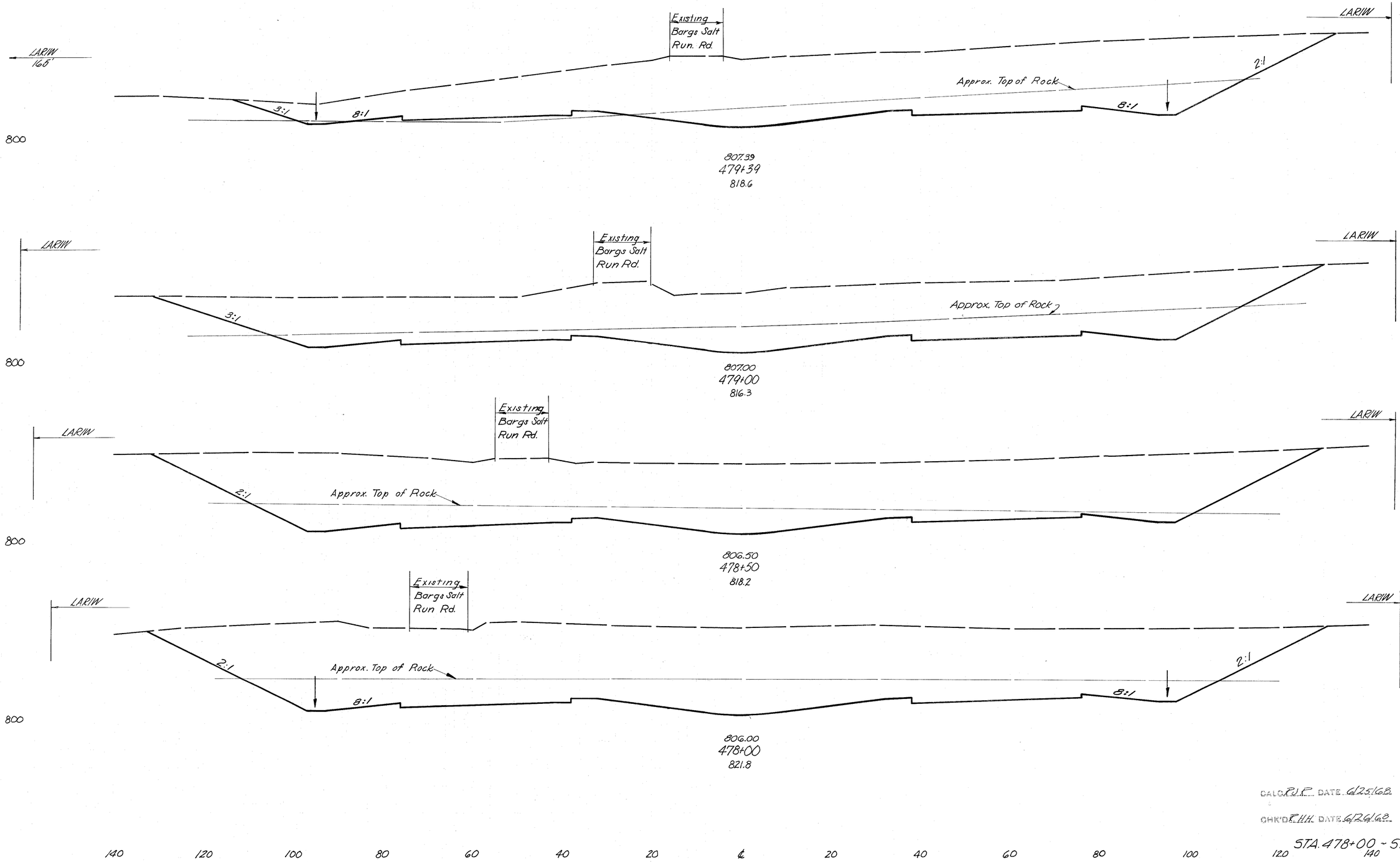
STA. 476+00 - STA. 477+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

269
6.38

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
2720	0		
		3968	0
2775	0		
		5618	0
3337	0		
		6844	0
4035	0		
		7801	0

CALC. R.L.P. DATE 6/25/68

CHK'D R.H.H. DATE 6/26/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

STA. 478+00 ~ STA. 479+39

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

270
6.38

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LAR/W 110'

3:1 8:1 8:1 2:1

800

Approx. Top of Rock

808.75
480+75
820.8

LAR/W 168'

800

Approx. Top of Rock

808.50
480+50
822.5

LAR/W 165'

800

Approx. Top of Rock

808.00
480+00
823.6

LAR/W 165'

800

Approx. Top of Rock

807.60
479+60
820.7

STA. 465+00 - STA. 480+00		
Excavation	271,201	C.Y.
Embankment	31	C.Y.

Existing Bargs Salt Run Rd.

Existing Bargs Salt Run Rd.

LAR/W

Sta. 480+34, 93' Rt.
End 2' Bottom Special Ditch
$5 \times 60 \times 1.5/27$ = 17 Cu. Yds.

Sta. 480+14, 180' Rt.
Begin 2' Bottom Special Ditch

LAR/W

G.R.

Match Line A

Regrade Line

Match Line A

60' Rock Channel Protection, Type B
49'6"x2'0"

Sta. 480+20 Rt.
Pavement Removed Under Item 203 Excavation Not Including Embankment Construction and Earth Backfill Shall be Included in Item 203 Embankment See Sheet No. 44

$\frac{13 \times 12 \times 1}{27}$ = 6 Cu. Yds.

LAR/W

Approx. Top of Rock

2:1 8:1

Sta. 479+50 Lt.
Pavement Removed Under Item 203 Excavation Not Including Embankment Construction and Earth Backfill Shall be Included in Item 203 Embankment See Sheet No. 44

$\frac{25 \times 6 \times .67}{27}$ = 4 Cu. Yds.

	End Area		Volume	
	Cut	Fill	Cut	Fill
	3005	0		
			3044	0
	3570	0		
			17	
			7183	0
	4188	0		
			5849	0
			6	6
	3025	0		
			2234	0
			4	4

CALC. PJR DATE 6/25/68

CHK'D PHH DATE 6/26/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

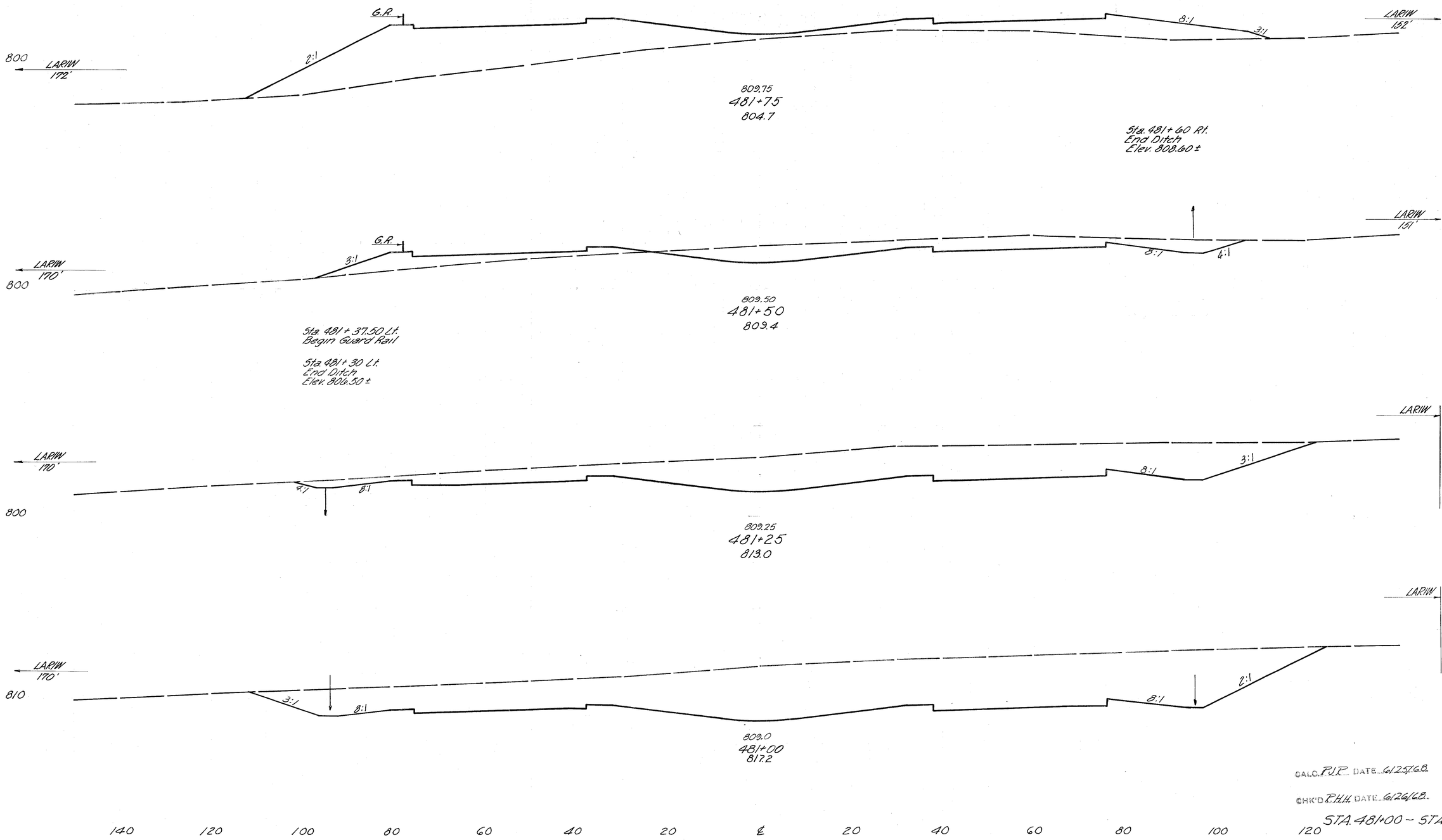
STA. 479+60 ~ STA. 480+75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

271
638

CLERMONT COUNTY
CLE.-275-

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area Cut	End Area Fill	Volume Cut	Volume Fill
1079	0		
		692	65
314	140		
		679	65
1152	0		
		1468	0
2020	0		
		2826	0

CALC. P.J.R. DATE 6/25/68.

CHK'D R.H.H. DATE 6/26/68.

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 481+00 ~ STA. 481+75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

272
6.38

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140 160 180

LARIW 116'
G.R.
4:1
8:1
807.85
35.4%
Sta 482+75 Lt.
End 4' Bottom Special Ditch
End Jute Matting 7'-6" Wide
790

810.75
482+75
803.7

8:1
17.0%
LARIW 187'
807.80
17.0%

LARIW 175'
G.R.
4:1
799.0
35.4%
790

810.50
482+50
790.0

8:1
17.0%
LARIW 156'
803.55
17.0%

LARIW 175'
G.R.
3.8:1
2:1
797.94
90°
790
Sta 482+20 Lt.
End 60' Rock
Channel Protection Type B
Begin 66' Jute Matting 7'-6" Wide
Sta 482+17 Lt.
Begin 4' Bottom Special Ditch

810.47
482+47
787.6
Sta 482+15 ℄
33" Culvert

Ahead
Back Inlet Channel
17.0%
LARIW 156'
803.04
17.0%
Ahead
Back
Sta 482+21 Rt.
End 60' Riprap
Begin 4' Bottom Special Ditch
Begin 66' Jute Matting 7'-6" Wide
For 601 Riprap Quantity
See Sht. No. 453
Sta 482+15 Inlet Channel
203 Excavation Not
Including Embankment
Construction From Sht.
No. 453
Sta 482+15 Inlet Channel
203 Embankment From
Sheet No. 453

LARIW 174'
Sta 482+15, 130' Lt.
Std. HW-E Endwall
Inv. 33" = 789.76
G.R.
2:1
8:1
2:1
Match Line "A"
790
Ahead
Back
Sta 482+10 Lt.
Begin 60' Rock
Channel Protection Type B (Quantity
Carried With Drainage Structure)

810.00
482+00
798.6

Back
Ahead
Inlet Channel
Match Line "A"
2:1
Sta 482+15, 148' Rt.
Std. HW-E Endwall
Inv. 33" = 792.0
For Drainage Structure
Detail See Sht. No. 453
790
601, Riprap
LARIW 154'

	End Area		Volume	
	Cut	Fill	Cut	Fill
	207	490		
			124	1627
	60	3025		
			5	846
Ahead	30	3330		
Back	3	3290		
			276	
				35
Ahead	94	2730	84	5240
Back	506	2730		
			731	1264

CALC. RJR DATE 6/26/68
CHK'D RHH DATE 6/26/68

STA. 482+00 ~ STA. 482+75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

Sta. 483+55 Lt.
End Ditch

LA RIW 176'

G.R.

808.6

8:1

800

811.50
483+50
820.2

3:1

8:1

LA RIW 159'

LA RIW 176'

4:1

G.R.

8:1

4:1

LA RIW 158'

800

811.13
483+13
819.9

LA RIW 176'

4:1

G.R.

8:1

4:1

LA RIW 157'

800

811.00
483+00
816.9

Sta. 482+90
End 4' Bottom Special Ditch
End 667 Jute Matting 7'-8" Wide

LA RIW 176'

4:1

G.R.

8:1

8:1

4:1

809.35

LA RIW 157'

800

810.90
482+90
812.6

	End Area		Volume	
	Cut	Fill	Cut	Fill
	1904	0		
			2639	0
	1867	0		
			805	0
	1489	0		
			470	0
	1096	0		
			349	136

DRAWN RJR DATE 6/25/68

CHK'D RHK DATE 6/26/68

STA. 482+90 - STA. 483+50

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

274
6.38

CLERMONT COUNTY
CLE.-275-

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

Sta 485+07 Lt
Begin 66' Jute Matting
7'-6" Wide

For 601 Rock Channel
Protection, Type B See Structure
Detail Sht. No. 454

Sta. 485+05.132' Lt
HW-E Inv. 36"=787.36

Channel Earthwork See Sht. No. 454

Sta 485+00.130' Lt
Std. HW-E
Inv. 15" = 787.80

Sta 485+00 ℄
604, Std. No. 4 C.B.
℄ Grate = 808.50
Inv. 15" = 805.56

G.R.

5' Std. Concrete Collar

15" x 25° Bend

2:1

LARW 176'

End Area Ditch Ahead

790

15" x 25° Bend

603, 46' x 15" Conduit, Type "F"

603, 88' x 15" Conduit, Type "B", Class B Bedding @ 2.0%

813.00
485+00
801.7

Sta 485+00, 141' Lt
Begin 4' Bottom Special Ditch

8:1

3:1

LARW 168'

	End Area		Volume	
	Cut	Fill	Cut	Fill
	304	2213		
Sta. 485+53	22			
Sta. 485+30	35		24	
Sta. 485+00	26		34	
			1072	3681
	854	1176		
			2946	2930
			3800	7493
			3897	6973

Ditch Left

LARW 166'

G.R.

790

LARW 176'

812.50
484+50
809.6

Sta. 484+25 Lt.
End Special Slope Benching

LARW 162'

G.R.

2:1

8:1

2:1

LARW 176'

790

812.00
484+00
815.6

Sta. 483+75 Lt.
Begin Special Slope Benching

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

STA. 484+00 - STA. 485+00

C.A.D. R.J.R. DATE 6/25/68

D.I.S.O. P.H.H. DATE 6/26/68

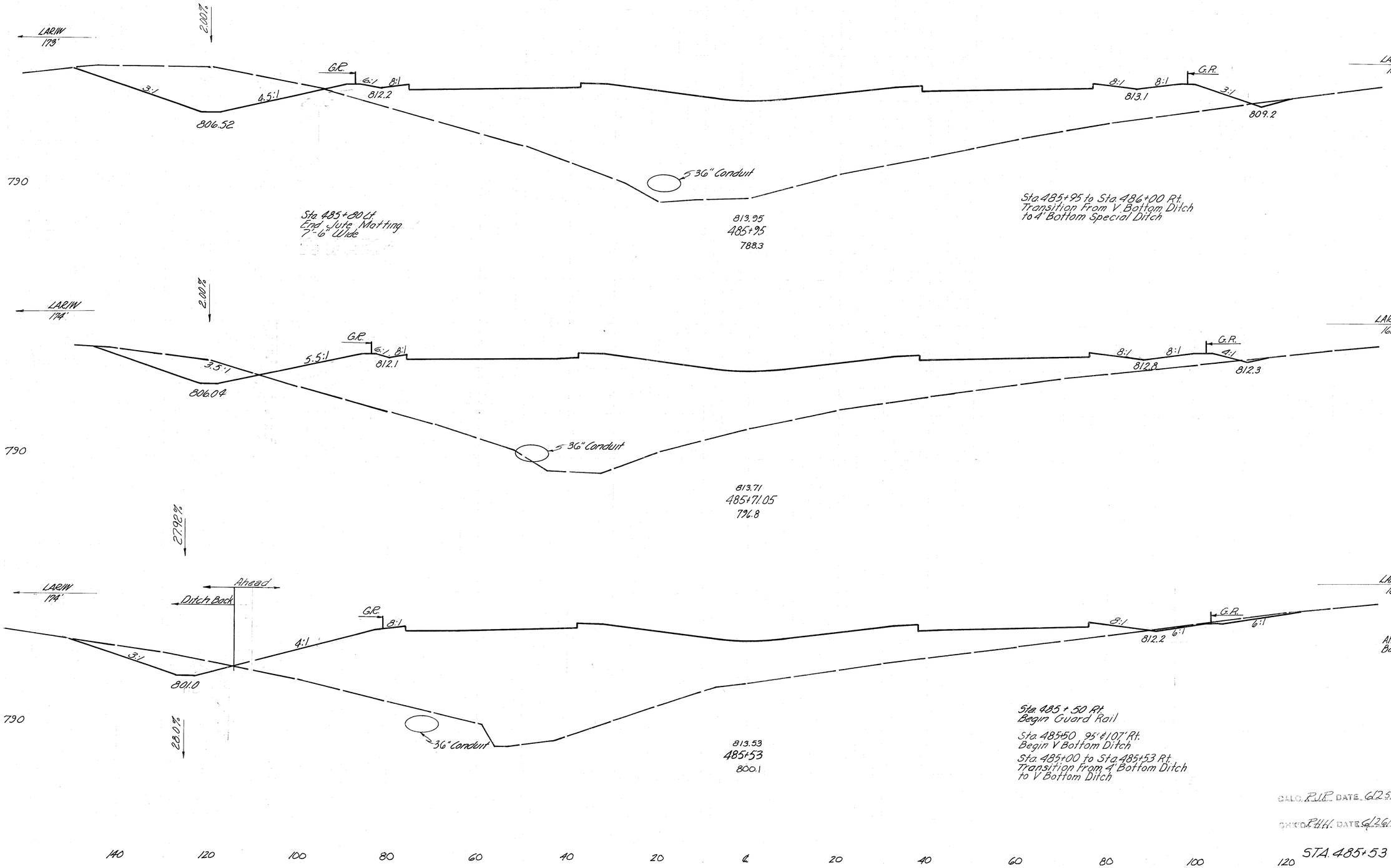
150

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

275
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
35	2688		
		4	22172
53	2425		
		47	15585
88	2830		
0	2830		
		298	4461

CALC. R.W.P. DATE 6/25/68
CHKD. P.H. DATE 6/26/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 485+53 – STA. 485+95

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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6.38

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LARIW 171'

3:1 4:1 G.R. 6:1 8:1

812.5 812.2

14.6%

Approx. Top of Rock

800

814.75
486+75
809.8

Sta 486+75; 80' Rt.
End V Bottom Ditch

36" Conduit

2:1

16.1%

798.6

LARIW 168'

LARIW 172'

G.R. 3:1 H.W.E.

812.4

808.85 Sta. 486+50 114.5' Lt.
IE 15" 808.85

5.13%

Approx. Top of Rock

790

814.50
486+50
803.5

36" Conduit

8:1 8:1 G.R.

813.9

3:1

18.4%

804.0

LARIW 167'

LARIW 173'

G.R. 4:1 8:1

812.3

806.85

2.00%

790

814.11
486+11
786.7

Sta 486+15 ℄
36" Conduit (40° R.F. Skew)

36" Conduit

8:1 9:1 G.R.

813.1

3:1

6.8%

806.6

4:1

LARIW 167'

203 Excavation Not Including Embankment Construction From Sht. No. 454

203 Embankment From Sht. No. 454

LARIW 173'

G.R. 3:1 4.5:1 6:1 8:1

812.3

806.62

790

814.00
486+00
787.6

36" Conduit

8:1 8:1 G.R.

813.0

3:1 3:1

6.3%

807.4

LARIW 168'

	End Area		Volume	
	Cut	Fill	Cut	Fill
	99.5	14.21		
			87.2	150.4
	90.8	182.9		
			76.5	244.5
	15.0	279.1		
			11	
	39.0	277.6		
			39	506

	Volume	
	Cut	Fill
	87.2	150.4
	76.5	244.5
	150	279.1
	11	18
	110	1167
	390	2786
	39	506

DALC. R.J.R. DATE 6/25/68

CHKD. R.H.H. DATE 6/26/68

STA. 486+00 ~ STA. 486+75

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

V

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

277
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

Sta. 487+75 Rt.
End Guard Rail
End Special Slope Benching

LA/RW 110'
3:1
8:1
G.R.
3:1
330.8
LA/RW 166'
4:1
797.2

815.50
487+50
824.6

Sta 487+40 Rt.
Begin 4' Bottom Special Ditch
Begin 601 Rock Channel
Protection Type B. 8'x2'-0"

800

LA/RW 171'
160.8
G.R.
2:1
LA/RW 166'
12:1
4:1
4:1
794.8
Sta. 487+22

Approx. Top of Rock

800

Sta. 487+10 95' Lt.
604 Std. No. 5 Catch Basin
Grate Elev. 812.30
Inv. 15" 810.05

LA/RW 171'

815.35
487+35
823.1

Sta 487+22, 135' Rt.
End 4' Bottom Special Ditch

Sta 487+16, 125' Rt.
Culvert Inlet
Inv. 36" = 793.00

Sta 487+15 Rt.
Begin Special Slope Benching

G.R.
LA/RW 167'
Match Line "B"
10.7'
2:1
794.2
790
20%
Varies
36" Conduit
Match Line "B"

Approx. Top of Rock

790

Sta. 487+00 Lt.
End Guard Rail

815.10
487+10
818.3

LA/RW 171'
3:1 G.R.
6:1
8:1
812.75
812.7
G.R.
800
Match Line "A"
2:1
LA/RW 167'
20.8'
5' Contoured
36" Conduit
794.5
Match Line "A"
16.6'

Approx. Top of Rock

790

815.00
487+00
815.0

Sta. 486+94 Rt.
End 601 Rock Channel
Protection, Type B. 12'x6'x2'-0"

Sta. 486+73 Rt.
Begin 601 Rock Channel
Protection, Type B 12'x6'x2'-0"

End Areo		Volume	
Cut	Fill	Cut	Fill
1903	285		
		1019	214
1764	486		
		70	
		1621	624
1521	862		
		527	352
1322	1036		
		1063	1197

CALC. RJP DATE 6/25/68
CHKD. RHH DATE 6/26/68

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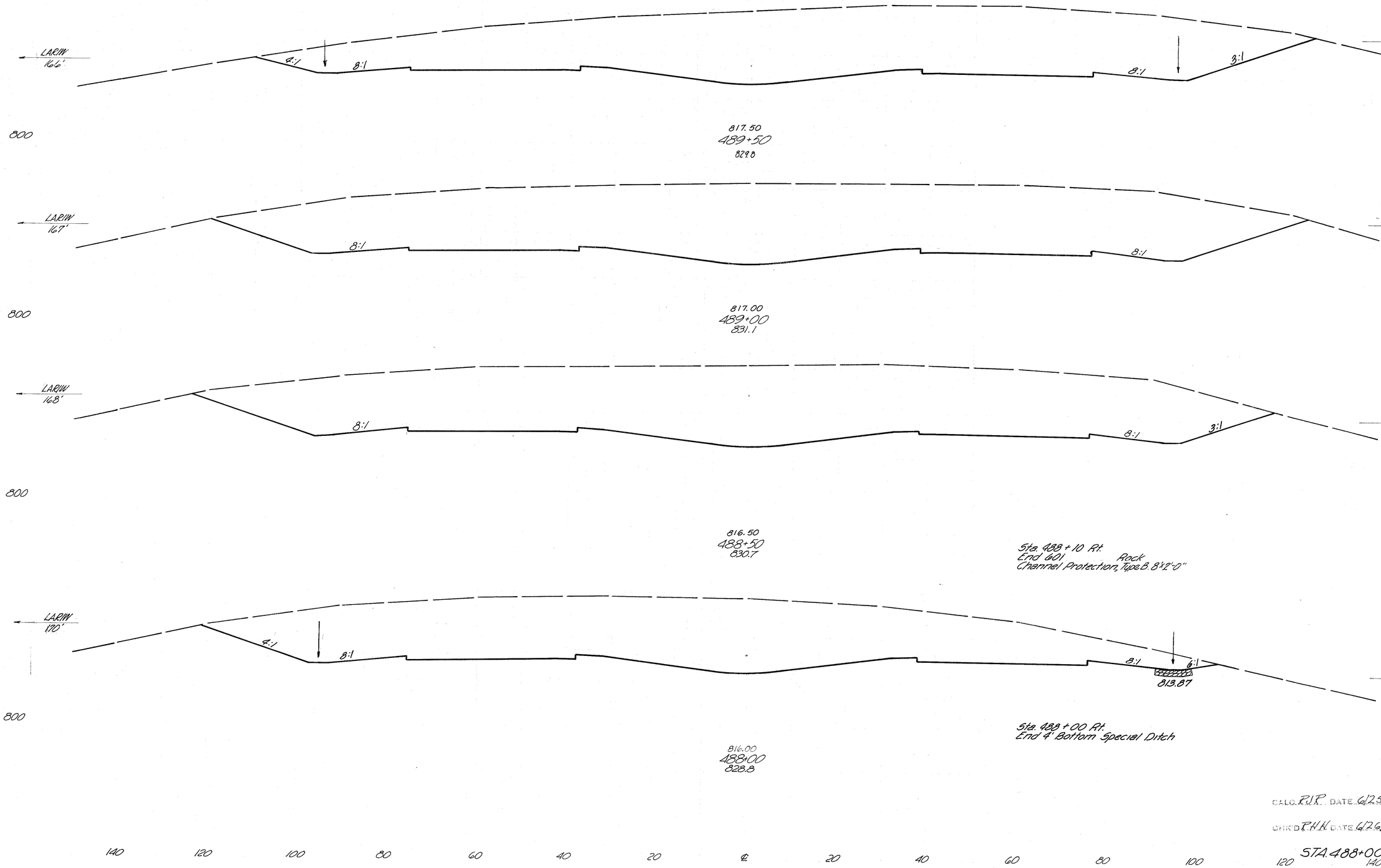
STA. 487+00 - STA. 487+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



	End Area		Volume	
	Cut	Fill	Cut	Fill
	26.96	0		
			574.4	0
	32.05	0	594.0	
	30.10	0		0
			577.7	0
	24.83	0		
			432.9	26.4

CALC. RJR DATE 6/25/68

CHK'D RHK DATE 6/26/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

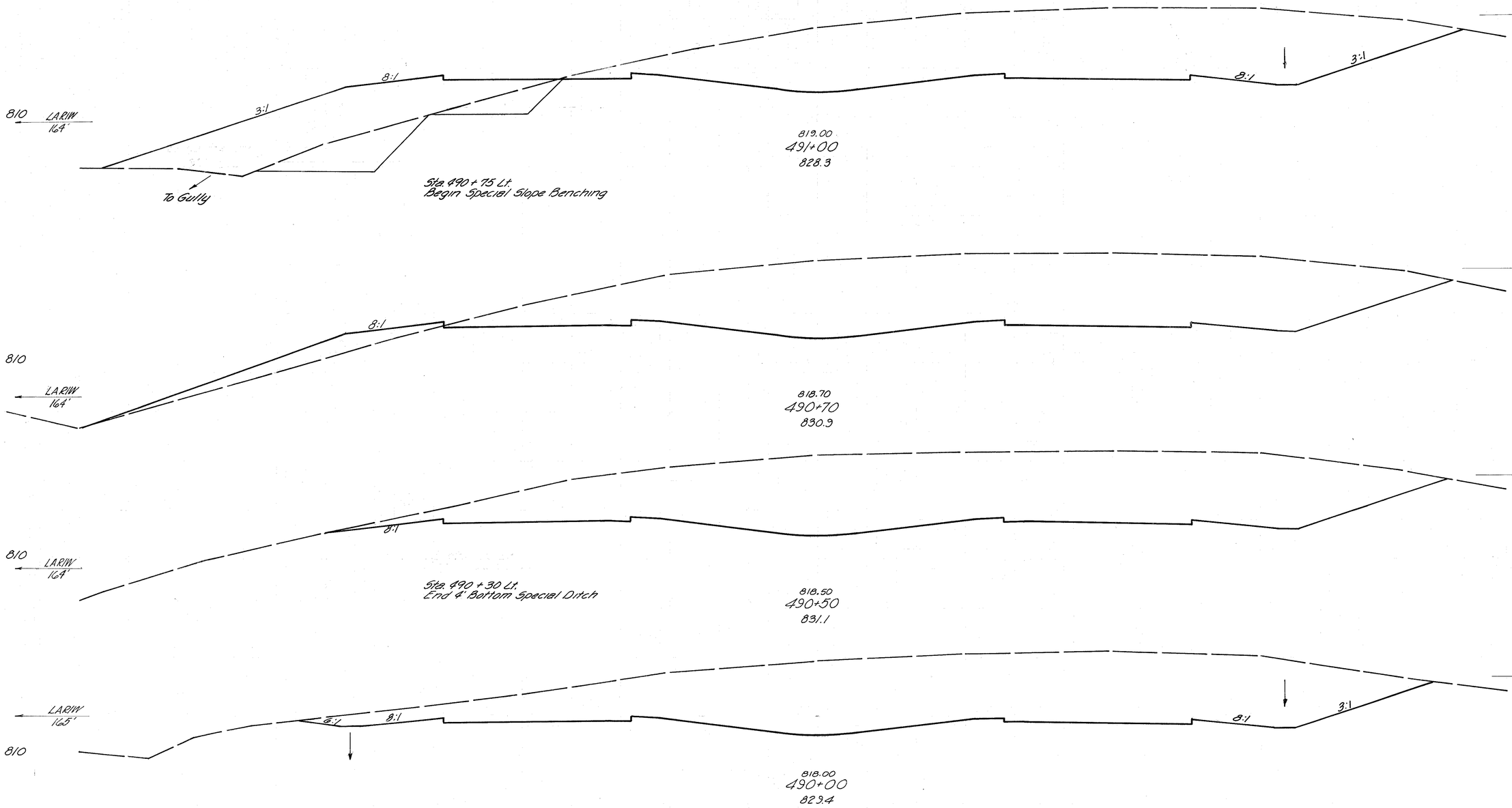
STA. 488+00 ~ STA. 489+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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635

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



	End Area		Volume	
	Cut	Fill	Cut	Fill
	2233	865		
			2533	860
	2326	144		
			1769	53
	2451	0		
			4935	0
	2388			
			4652	0

CALC. P.J.R. DATE 6.26.68
CHK'D RHH DATE 6.26.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

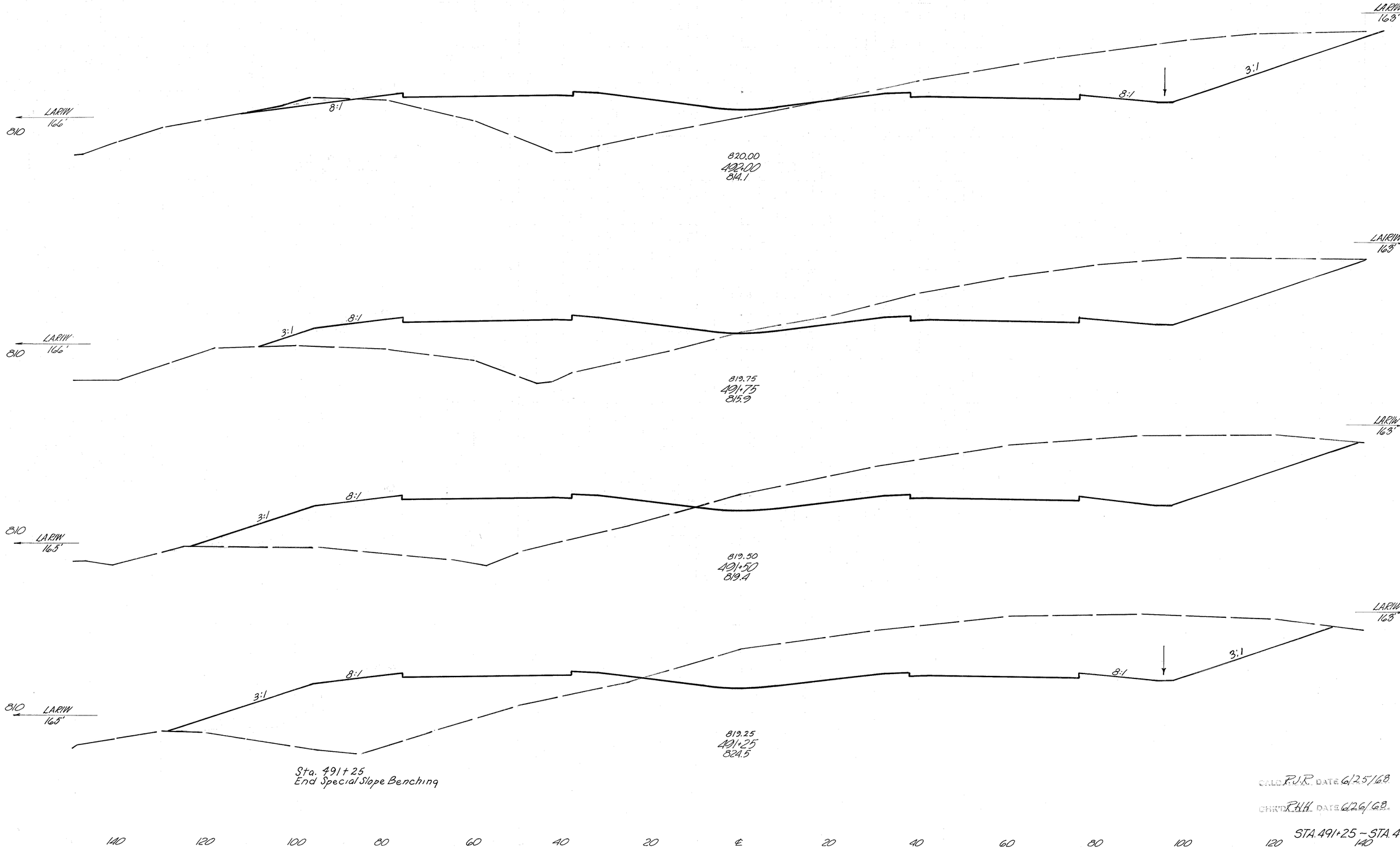
STA. 490+00 – STA. 491+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

280
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



	End Area		Volume	
	Cut	Fill	Cut	Fill
	860	580		
			889	623
	1060	766		
			1106	808
	1330	980		
			1336	892
	1556	948		
			1754	839

CALC. P.J.R. DATE 6/25/68

CHKD. R.H.H. DATE 6/26/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

STA. 491+25 – STA. 492+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

Sta 494+10, 107' Lt.
Begin Interceptor Ditch Lt. & 667 Jute Matting 7'-6" Wide

Begin 667 Jute Matting 7'-6" Wide
End 667, Jute Matting, 11'-0" Wide

LA RIW 169'
820
4:1
3:1
8:1
817.0
36" Conduit
822.00
494+00
830.4
8:1
12:1
LA RIW 162'

LA RIW 168'
820
6.0%
4:1
815.5
36" Conduit
821.75
493+75
826.4
Sta 494+00 Rt.
Begin 601 Rock Channel Protection Type B 8'-2"-0"
3:1
LA RIW 162'

LA RIW 168'
820
10.0%
2:1
3:1
813.0
36" Conduit
821.50
493+50
822.6
LA RIW 162'
3:1

LA RIW 167'
10%
2:1
4:1
812.5
810
Sta. 492+89, 122' Lt
End 601 Rock Channel Protection Type B
Begin 667 Jute Matting 11'-0" Wide

Note: 601 Rock Channel Protection Type B carried on Drainage Structure, see Sht. No. 455

Sta. 492+76, 125' Lt. Begin 4' Bottom Special Ditch

Sta. 492+69, 122' Lt. Begin 601 Rock Channel Protection Type B

821.00
493+00
817.2
LA RIW 162'
3:1

LA RIW 166'
810
8:1
820.50
492+50
810.2
8:1
3:1
LA RIW 163'

	End Area		Volume	
	Cut	Fill	Cut	Fill
	1367	195		
			1145	163
	1105	190		
			910	191
	861	223		
			1430	981
	629	296		
			1049	1024
	460	810		
			1213	1287

CALC. RJR DATE 6/26/68

CHK'D RHH DATE 6/26/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

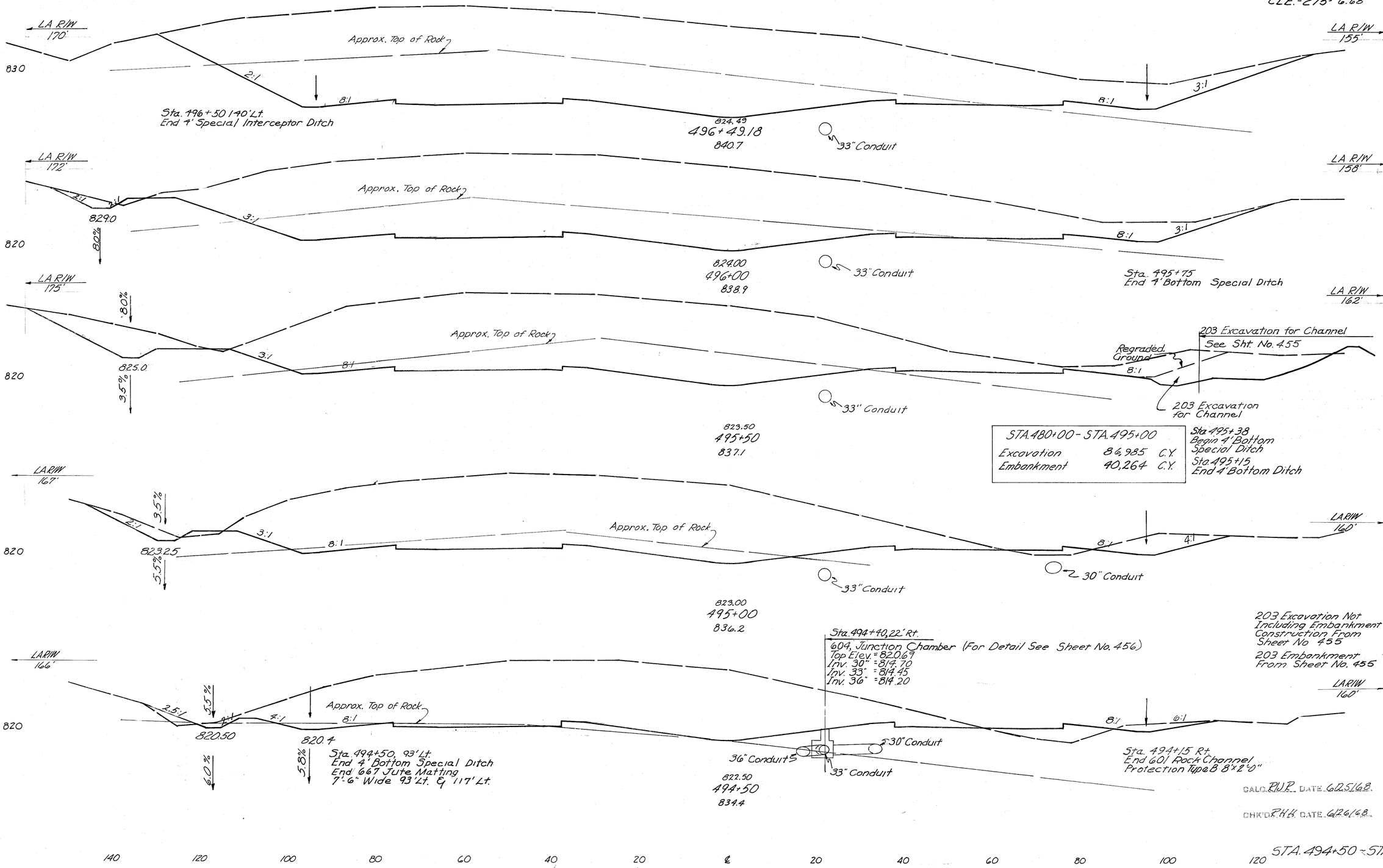
STA. 492+50 ~ STA. 494+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275- 6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120



End Area Cut	End Area Fill	Volume Cut	Volume Fill
3486	0		
		6226	5
8160	5		
		8330	6
2607	2		
		4553	30
2310	30		
		3878	100
		169	
1878	78		
		3006	206

CALC. RWR DATE 6-25-68
CHK'D RHK DATE 6-26-68

STA. 494+50 - STA. 496+49.18

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA R/W

Approx. Top of Rock

2:1

8:1

820

826.50
498+50
844.9

21" Conduit

LA R/W
152'

2:1

8:1

LA R/W
165'

Approx. Top of Rock

820

826.00
498+00
846.4

21" Conduit

Sta 498+00
End 4' Bottom Special Ditch

Sta. 497+72
Begin 4' Bottom Special Ditch

LA R/W
152'

Cut off Wall

Regrade Line Sta 497+67

601 Riprap

3:1

Sta 497+69 2-3'0"x4'0"x6'0"
Cascades for Detail See Sht. No. 441

Elev 821.0
Inv 820.59

Std. HW-E

203 Excavation For
Cascades and Ditch
not including Embankment
Construction From Sht. No. 457

Sta 497+50 22' Rt.
604 Std. No. 1-A M.H.
Top Elev. = 823.67
Inv. 21" = 818.51
Inv. 33" = 817.51
Inv. 33" = 817.51

820

LA R/W
160'

825.50
497+50
845.3

604. 82'+33" Conduit Type A 706.02 Cl. II or 706.08 E.S. Cl. B Bedding @ 3.76%

Sta 497+41
End 4' Bottom Ditch

LA R/W
152'

Approx. Top of Rock

2:1

8:1

820

825.00
497+00
843.5

33" Conduit

8:1

3:1

End Area Cut	End Area Fill	Volume Cut	Volume Fill
5392	0		
		9652	0
5032	0		
		8940	0
4624	0		
		8094	0
		38	
4118	0		
		7344	0

CALC. R.J.R. DATE 6/25/68

CHK'D P.H.H. DATE 6/26/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 497+00 - STA. 498+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

284
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA R/W

2:1 1:1 8:1

Approx. Top of Rock

LA R/W 154'

830

828.50
500+50
856.1

LA R/W

Approx. Top of Rock

LA R/W 154'

830

828.00
500+00
853.5

LA R/W

2:1 1:1

Approx. Top of Rock

LA R/W 152'

820

827.57
499+56.72
851.8

LA R/W 164'

Approx. Top of Rock

LA R/W 152'

Sta. 499+00 ℄
609 Std. No. 4 C.B.
ft. Grate = 822.50
Inv. 21" = 819.19
Inv. 6" = 821.00

820

603 152'-21" Conduit Type C Cl. B Bedding @ 0.92%
to Manhole Sta. 497+50 22' Rt.

827.00
499+00
846.7

End Area		Volume	
Cut	Fill	Cut	Fill
6550	0		
		11855	0
6240	0		
		9862	0
6050	0		
		12531	0
6034	0		
		10579	0

DRAWN PJR DATE 6/25/68

CHKD RHA DATE 6/26/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 499+00 - STA. 500+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CLERMONT COUNTY
CLE.-275-6.68

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638

End Area Cut	End Area Fill	Volume Cut	Volume Fill
7494	0		
		13442	0
7024	0		
		13436	0
6850	0		
		13257	0
6830	0		
		12389	0

CALC. R.J.R. DATE 6/25/68

CHK'D R.H.H. DATE 6/26/68

STA. 501+00 – STA. 502+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA RIW

2:1

Approx. Top of Rock

1:1

830

832.00
504+00
865.4

LA RIW
160'

LA RIW

Approx. Top of Rock

830

891.50
503+50
864.1

LA RIW
158'

LA RIW

2:1

Approx. Top of Rock

1:1

830

891.00
503+00
862.9

LA RIW
156'

End Area		Volume	
Cut	Fill	Cut	Fill
8024	0		
		14638	0
7840	0		
		14253	0
7554	0		
		13333	0

CALC. RHH DATE 6/26/68

CHK'D L.M. DATE 6/27/68

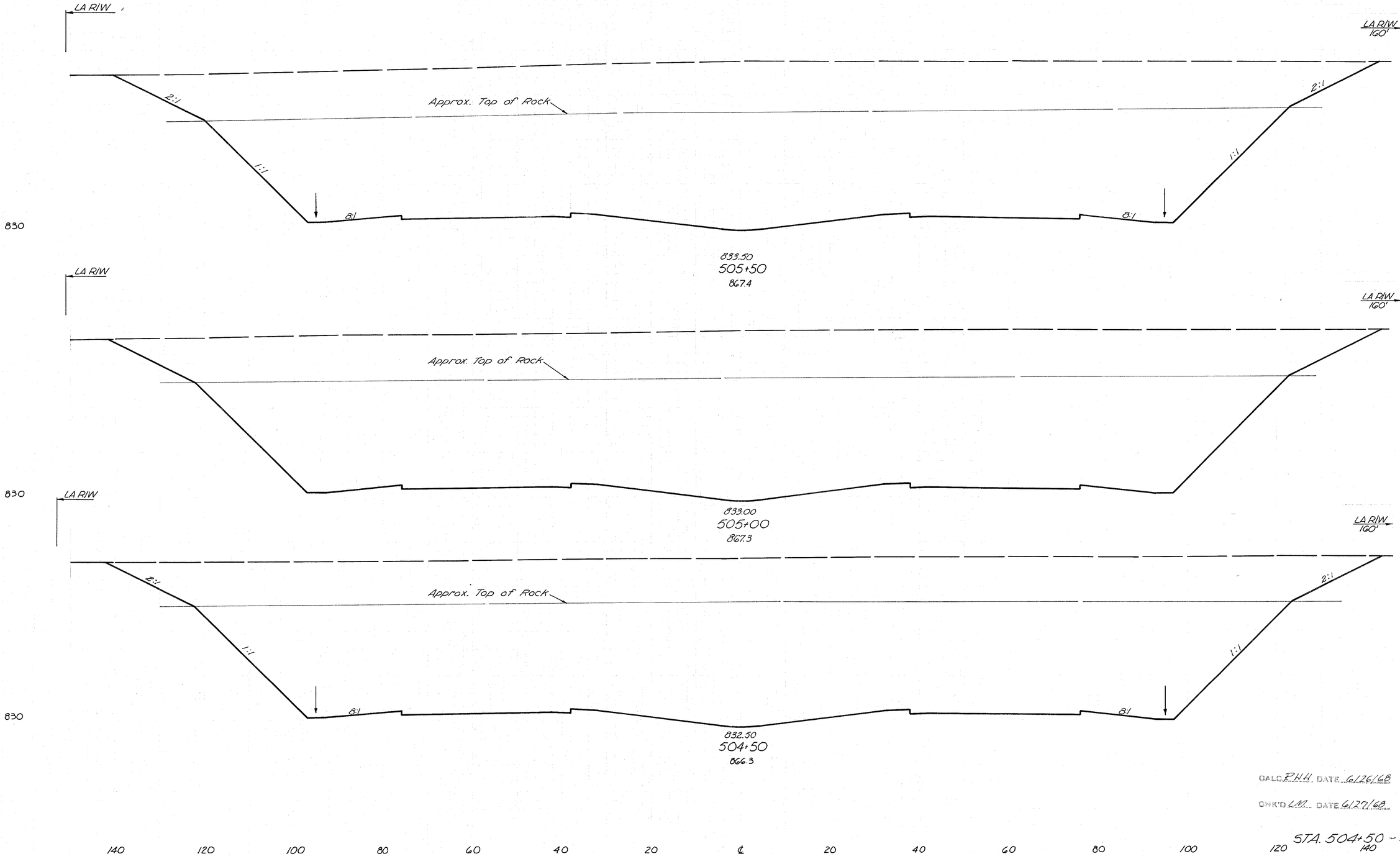
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 503+00 ~ STA. 504+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

287
638

CLERMONT COUNTY
CLE.-275-6.68



	End Area		Volume	
	Cut	Fill	Cut	Fill
	8083	0		
			15154	0
	8284	0		
			15326	0
	8268	0		
			16085	0

CALC. RHH DATE 6/26/68

CHK'D LM DATE 6/27/68

STA. 504+50 - STA. 505+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA R/W

LA R/W 156'

2:1

1:1

Approx. Top of Rock

1:1

8:1

8:1

830

839.00
507+00
866.0

LA R/W

LA R/W 158'

Approx. Top of Rock

830

834.50
506+50
867.2

LA R/W

LA R/W 159'

2:1

1:1

Approx. Top of Rock

1:1

8:1

8:1

830

839.00
506+00
867.2

End Area		Volume	
Cut	Fill	Cut	Fill
7539	0		
		14218	0
7817	20		
		14679	0
8037	0		
		14920	0

CALC. RHH DATE 6/26/68

CHK'D LM DATE 6/27/68

STA. 506+00 ~ STA. 507+00

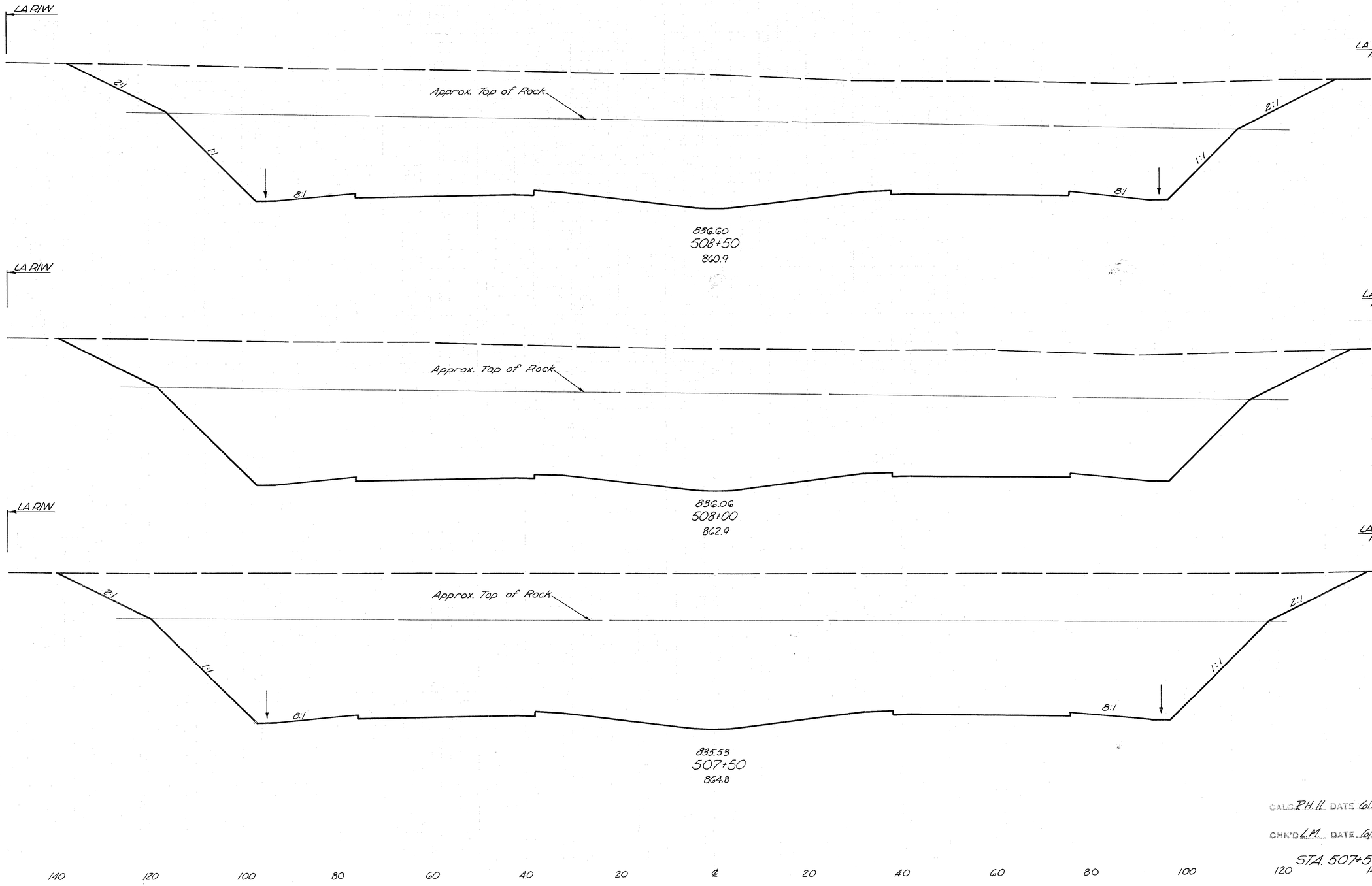
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

289
6.38

CLERMONT COUNTY
CLE-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
5844	0		
		11355	0
6420	0		
		12502	0
7082	0		
		13,538	0

CALC. R.H.H. DATE 6/26/68

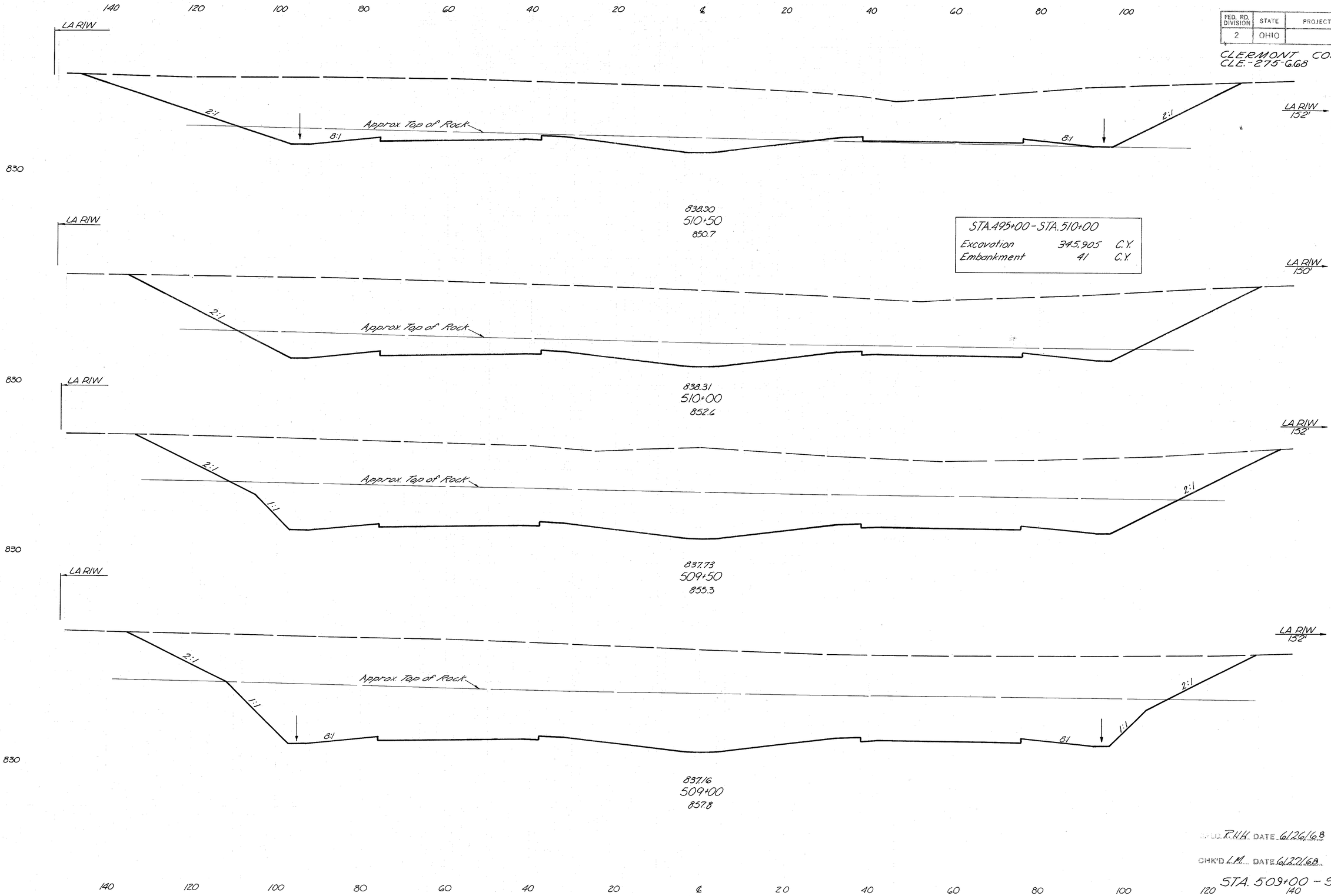
CHK'D L.M. DATE 6/27/68

STA. 507+50 – STA. 508+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

290
638

CLERMONT COUNTY
CLE.-275-G.G8



	End Area		Volume	
	Cut	Fill	Cut	Fill
	3148	0		
			6665	0
	4050	0		
			8046	0
	4480	0		
			9333	0
	5022	0		
			10448	0
	5844	0		

STA.495+00 - STA.510+00

Excavation	345,905	C.Y.
Embankment	41	C.Y.

DES. D.R.H. DATE 6/26/68

CHK'D L.M. DATE 6/27/68

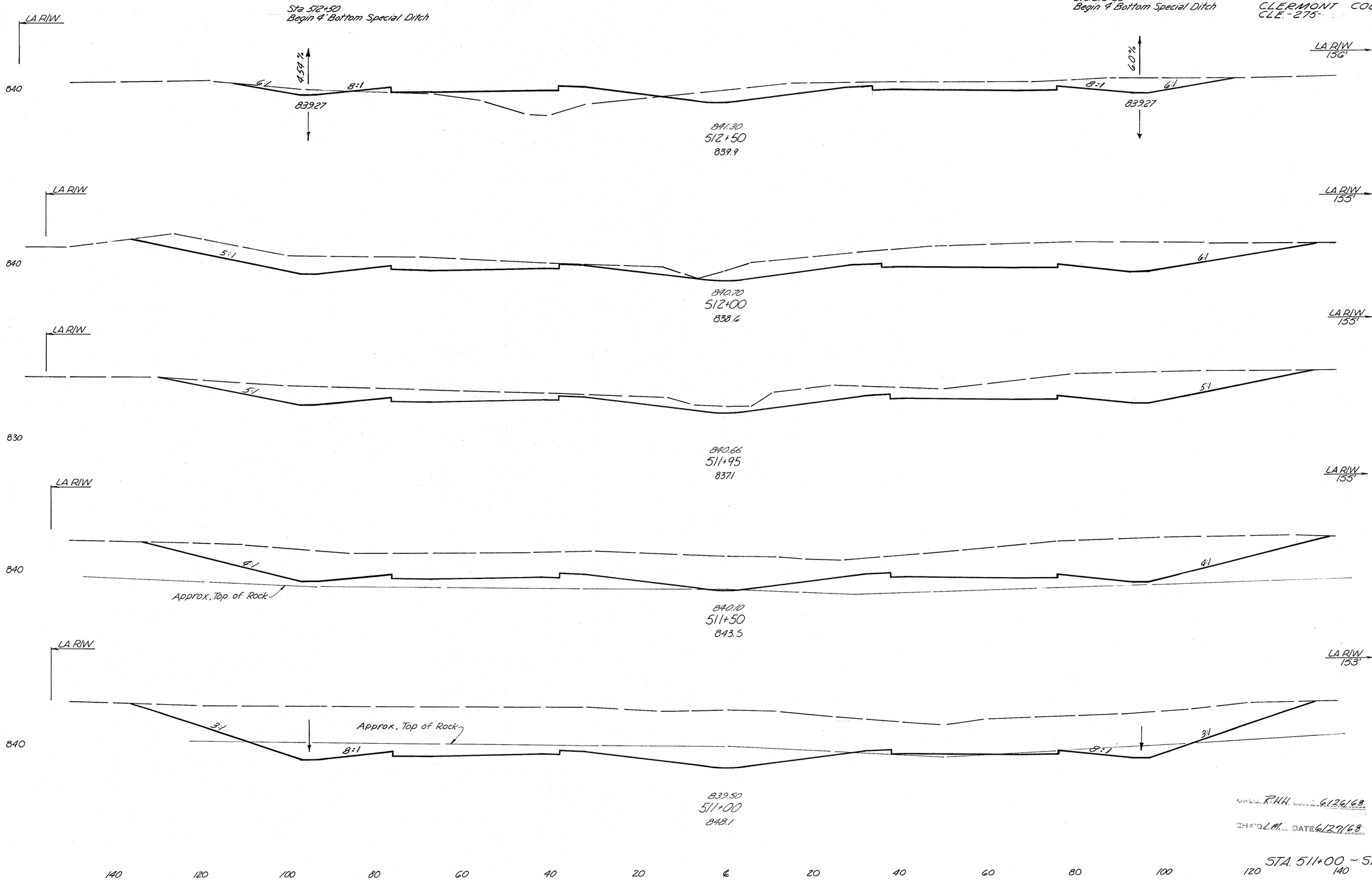
STA. 509+00 - STA. 510+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

291
638

CLERMONT COUNTY
CLE.-275-

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



	End Area		Volume	
	Cut	Fill	Cut	Fill
	286	166		
			1116	154
	920	0		
			157	0
	772	0		
			1980	0
	1604	0		
			3707	0
	2400	0		
			5137	0

CHKD. R.H.H. 6/26/68
CHKD. L.M. DATE 6/27/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

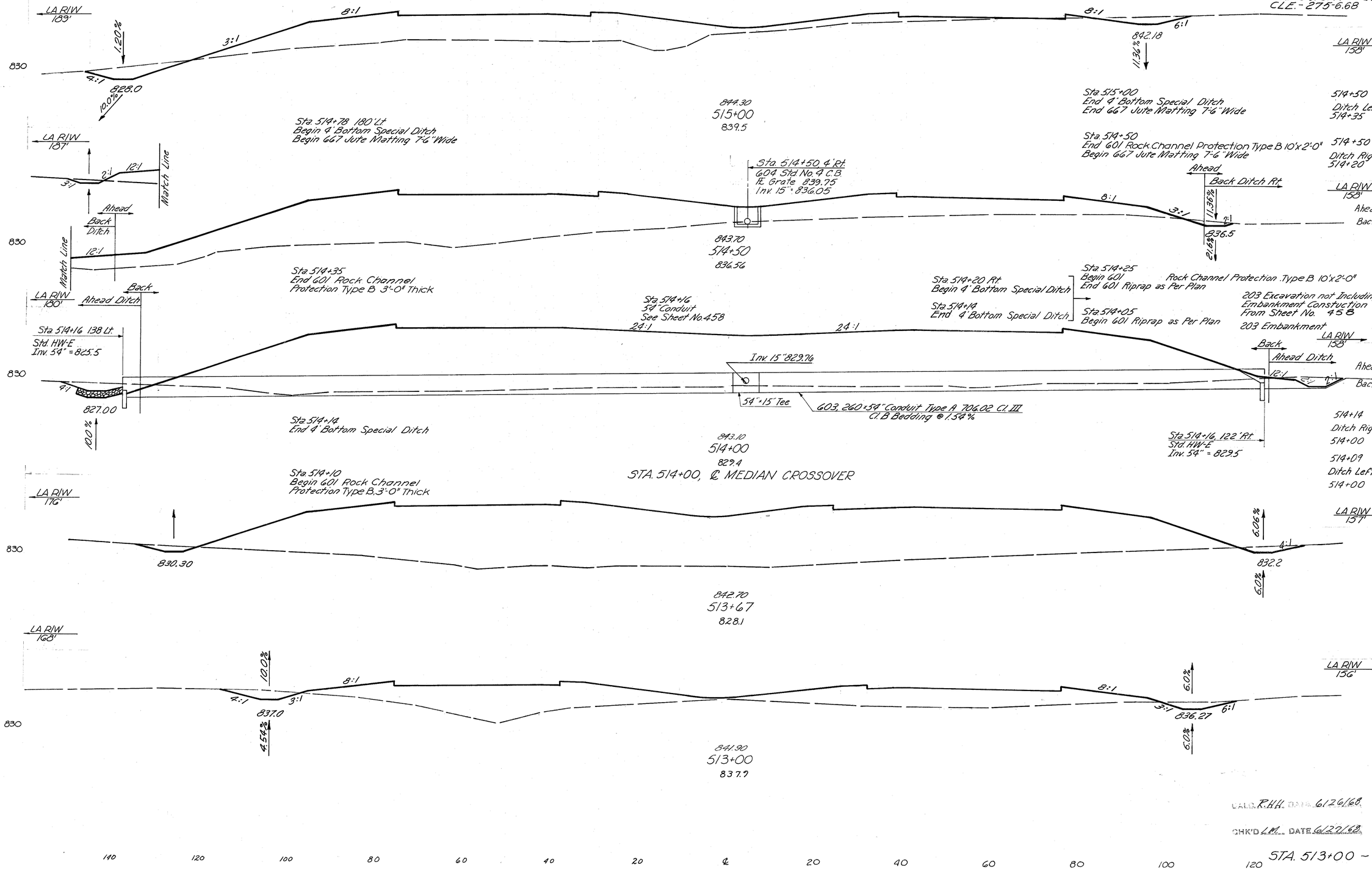
STA. 511+00 ~ STA. 512+50
140

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

232
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



	End Area		Volume	
	Cut	Fill	Cut	Fill
G3	710			
4	50			
			4	10
11	15			
7			G	
				0
4				
			G9	2102
Ahead 12	1560			
Back 2	1503			
			4	4001
			17	
				11
Ahead 2	2819			
Back 33	2819			
4			5	0
16				
15			5	0
17				
			32	3247
20	2506			
			78	4029
43	742			
			304	841

CALC. R.H.H. DATE 6/26/68
CHK'D L.M. DATE 6/27/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 513+00 – STA. 515+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

293
838

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA R/W 178'

8:1 8:1

840

849.6

Approx. Top of Rock

846.70
517+00
850.4

8:1 3:1

Sta 517+00 Lt.
End 9' Bottom Special Ditch
End 667 Jute Matting 7'-6" Wide

LA R/W 180'

4:1 8:1 4:1

842.0

830

846.10
516+50
847.5

LA R/W 183'

50% 3:1 8:1 6:1

840

839.5

845.50
516+00
845.0

LA R/W 186'

11.0% 4:1 3:1 8:1 8:1 6:1

840

834.0

844.90
515+50
841.4

LA R/W 160'

End Area Cut	End Area Fill	Volume Cut	Volume Fill
1235	0		
		1665	17
564	18		
		530	558
17	585		
		182	865
180	350		
		225	981

CALC. RHH DATE 6/26/68
CHK'D LM DATE 6/27/68

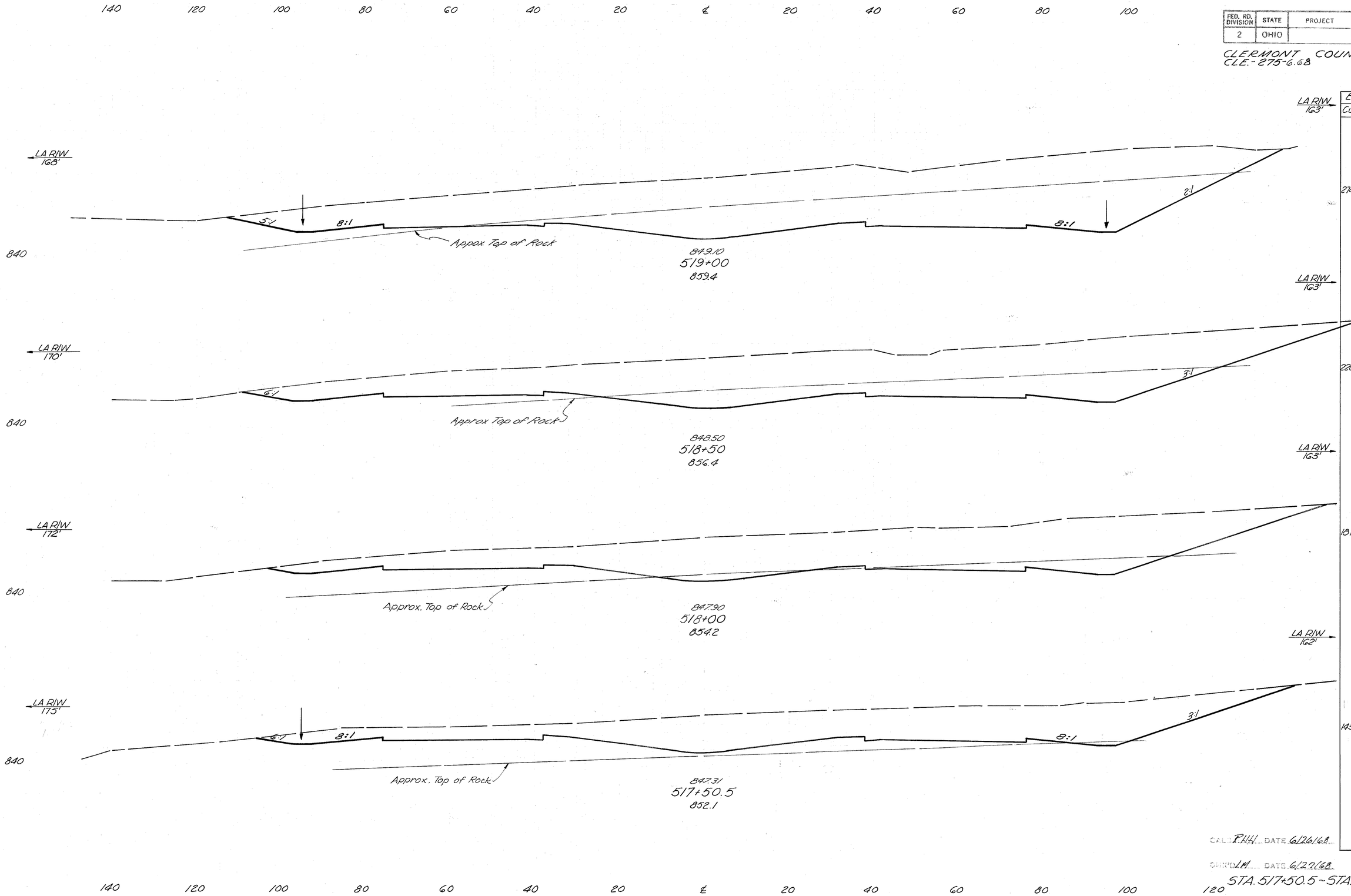
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

STA. 515+50 - STA. 517+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

234
638

CLERMONT COUNTY
CLE.-275-6.68



	End Area		Volume	
	Cut	Fill	Cut	Fill
LA R/W 163'				
	2743	0		
			4641	0
LA R/W 163'				
	2265	0		
			3778	0
LA R/W 162'				
	1816	0		
			3005	0
	1430	0		
			2467	0

CALC. RHH DATE 6/26/68

CHKD. LM DATE 6/27/68

STA. 517+50.5 ~ STA. 519+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

295/638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA R/W 159'

LA R/W 160'

LA R/W 162'

LA R/W 163'

Approx. Top of Rock

9:1

8:1

8:1

2:1

850

840

851.50
521+00
866.4

850.90
520+50
863.4

850.30
520+00
861.8

849.70
519+50
861.3

	End Area		Volume	
	Cut	Fill	Cut	Fill
	4058	0		
			7329	0
	3858	0		
			6600	0
	3270	0		
			5362	0
	3170	0		
			5479	0

CALC. R.H.H. DATE 6/26/68

CHK'D L.M. DATE 6/27/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 519+50 – STA. 521+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

296
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

	End Area		Volume	
	Cut	Fill	Cut	Fill
	3374	0		
			6515	0
	3663	0		
			7147	0
	4056	0		
			7635	0
	4191	0		
			7637	0

DRN. P.H.H. DATE 6/26/68

CHK'D L.M. DATE 6/27/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 521+50 – STA. 523+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

297
638

CLERMONT COUNTY
CLE.-275-6.68

STA. 510+00 - STA. 525+00	
Excavation	117,596 C.Y.
Embankment	16,824 C.Y.

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA R/W

4:1 8:1 Approx. Top of Rock 8:1 2:1

850

855.30
525+00
870.1

LA R/W

Approx. Top of Rock

850

855.70
524+50
870.3

LA R/W

Approx. Top of Rock 8:1

850

855.10
524+00
869.8

Sta. 523+75 Lt.
Begin Ramp H.
Begin Shoulder Transition

LA R/W

4:1 8:1 Approx. Top of Rock 8:1 2:1

850

854.50
523+50
867.6

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

	End Area		Volume	
	Cut	Fill	Cut	Fill
LA R/W 164'				
	3647	0		
			6961	0
LA R/W 164'				
	3871	0		
			7192	0
LA R/W 164'				
	3897	0		
			6893	0
LA R/W 163'				
	3548	0		
			6409	0

CALC. R.H.K. DATE 6/26/68
CHK'D L.M. DATE 6/27/68

STA. 523+50 ~ STA. 525+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

298
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

870
860
850

LA R/W

4:1 8:1 Approx. Top of Rock 8:1 3:1

LA R/W 160'

858.70
527+00
868.2

LA R/W

LA R/W 160'

870
860
850

Approx. Top of Rock 3:1

858.10
526+50
868.7

LA R/W

LA R/W 160'

870
860
850

Approx. Top of Rock 2.5:1

857.50
526+00
869.1

LA R/W

LA R/W 160'

870
860
850

4:1 8:1 Approx. Top of Rock 8:1 2:1

856.90
525+50
869.4

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

End Area		Volume	
Cut	Fill	Cut	Fill
2816	0		
		5404	0
3020	0		
		5863	0
3312	0		
		6222	0
3408	0		
		6532	0

CALC. PNH DATE 6/26/68

CHKD LM DATE 6/27/68

STA. 525+50 - STA. 527+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

299
638

CLERMONT COUNTY
CLE-275-6.68

Note:
The existing Pond left of Sta 529+00 shall be drained prior to the placement of Roadway Embankment in the Pond Area. The method used to drain Pond and the rate of discharge of the water shall be subject to approval of the Engineer. Payment for the above work shall be included in the unit price bid per Item 203 Embankment.

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

Sta. 528+51
End 4' Bottom Ditch

870 / 860 / 850

LA R/W

Approximate Max. Water Level

3:1 8:1 8:1 4:1

LA R/W 160'

860.50
528+50
859.5

870 / 860 / 850

LA R/W

Approximate Max. Water Level

3:1 8:1

Approx. Top of Rock

LA R/W 160'

860.43
528+44
859.5

Sta. 528+00
End 4' Bottom Ditch

870 / 860 / 850

LA R/W

Approximate Max. Water Level

4:1 4:1

Approx. Top of Rock

LA R/W 160

859.30
528+00
864.2

870 / 860 / 850

LA R/W

4:1 8:1 8:1 3.5:1

Approx. Top of Rock

LA R/W 160'

859.30
527+50
866.7

	End Area		Volume	
	Cut	Fill	Cut	Fill
	340	302		
			87	57
	440	208		
			1729	169
	1682	0		
			3722	0
	2338	0		
			4772	0

CALC. R.H.H. DATE 6/26/68
CHK'D L.M. DATE 6/27/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

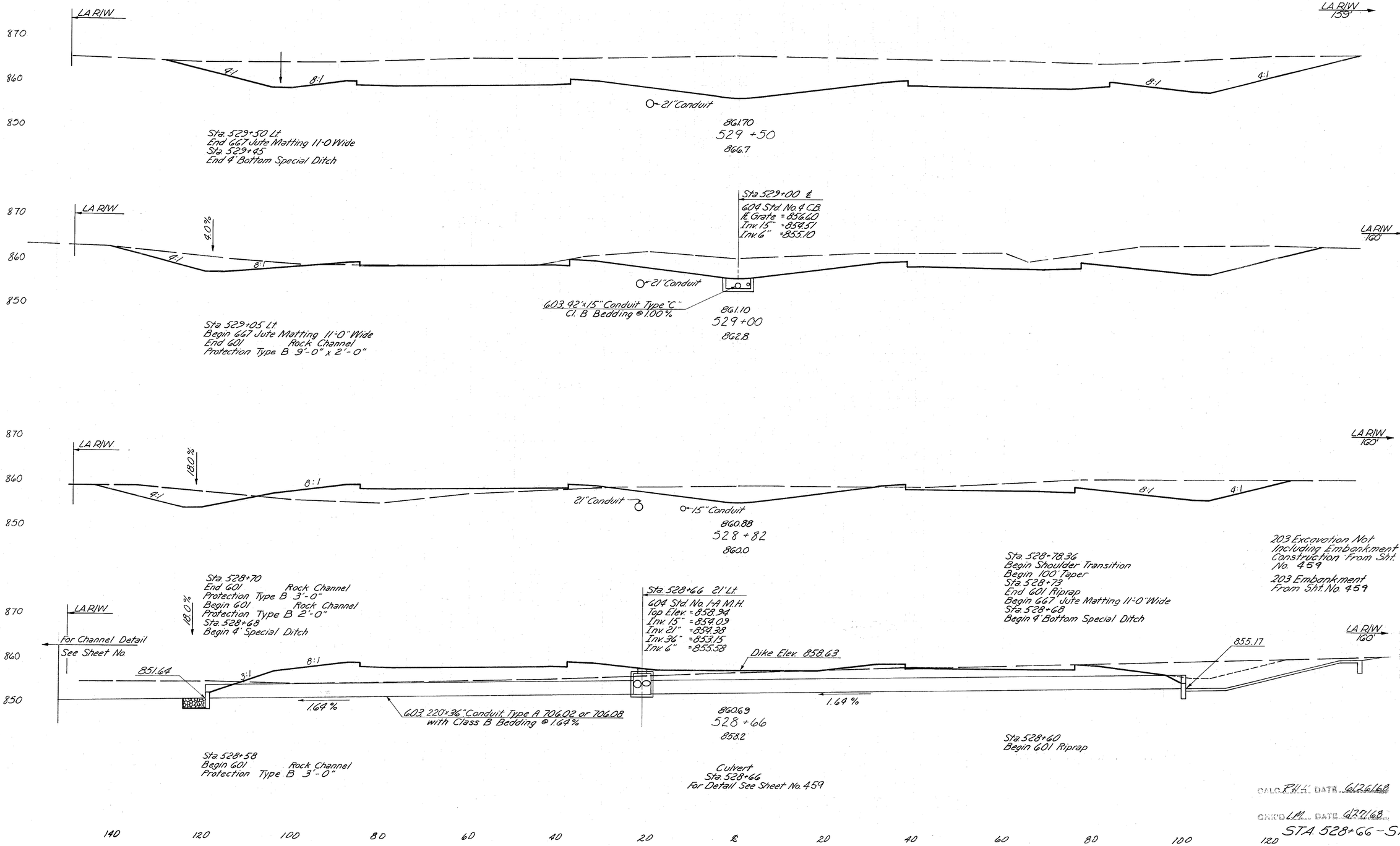
STA. 527+50 - STA. 528+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

300
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
1524	0		
		2045	2
685	2		
		345	51
350	150		
		440	
			261
		143	145
132	340		
		140	190

CALC. RHL DATE 6/26/68

CHK'D LM DATE 6/27/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 528+66 – STA. 529+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

301
638

CLERMONT COUNTY
CLE.-275-0.08

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

Sta. 531+9850 Lt.
Begin Guard Rail

LA R/W

3.5:1 8:1 8:1 6:1 G.R. G.R. 6:1 8:1 8:1 3.5:1

21" Conduit

Sta. 531+37.50
Begin Median Guard Rail

864.10
531+50
870.2

Sta. 531+75 Rt.
Begin Guard Rail

LA R/W
155'

LA R/W

4:1 8:1 8:1 4:1

21" Conduit

863.50
531+00
870.2

LA R/W
157'

House

LA R/W.

21" Conduit

862.90
530+50
870.0

LA R/W
157'

LA R/W

4:1 8:1 8:1 8:1 8:1 4:1

21" Conduit

862.30
530+00
868.9

Sta 530+00
End 9' Bottom Special Ditch
Sta 529+78.36
End 100' Taper

LA R/W
159'

End Area		Volume	
Cut	Fill	Cut	Fill
2090	0		
		4000	0
2230	0		
		4131	0
2232	0		
		3826	0
1900	0		
		3170	0

CALC. R.H.H. DATE 6/26/68
CHKD. L.M. DATE 6/27/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

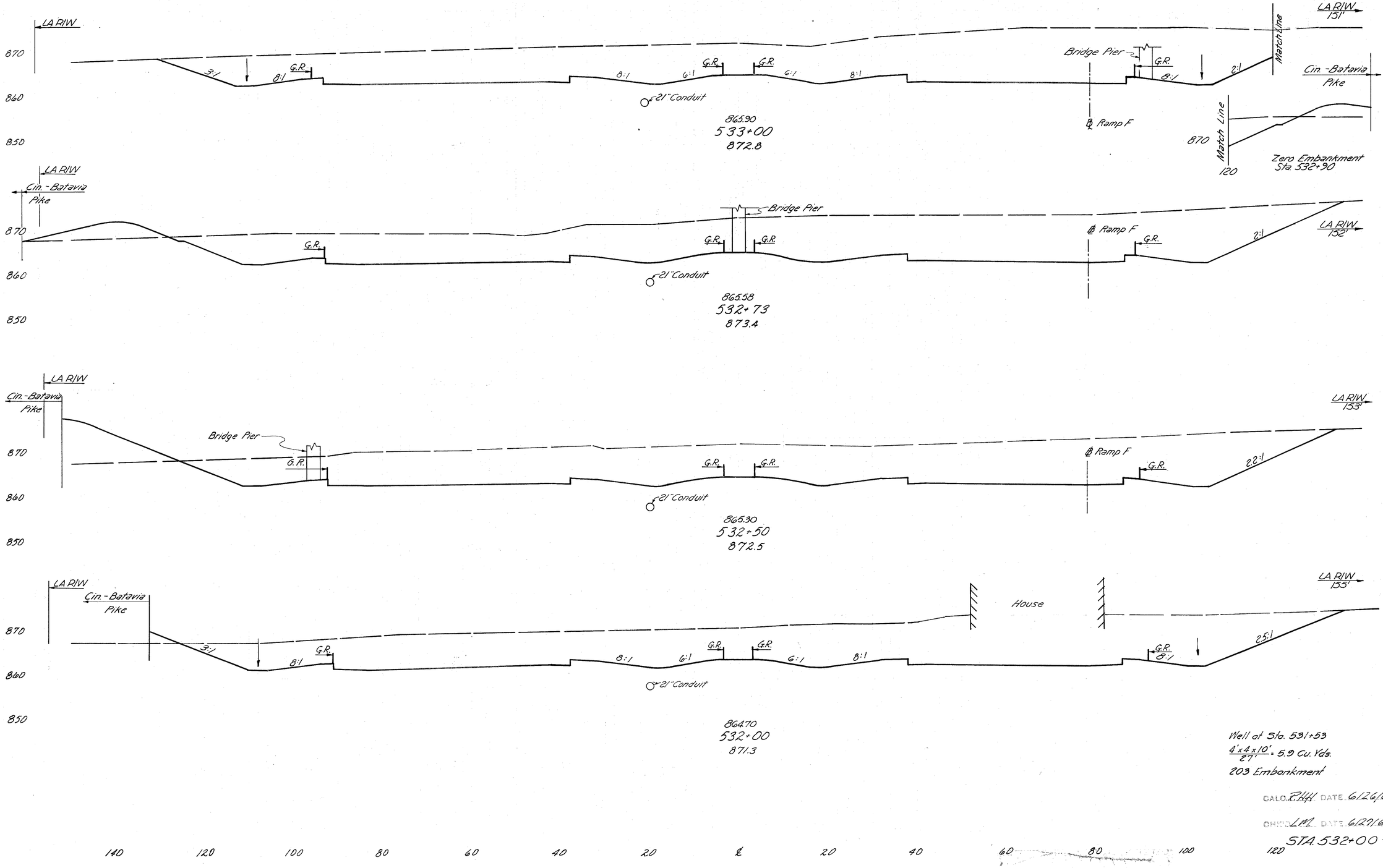
STA. 530+00 - STA. 531+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

302
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
2180	40		
		2133	57
	0		
2083	74		
		1753	95
2030	148		
		3813	146
2088	10		
		3868	9
			6

Well at Sta. 531+53
$\frac{4' \times 4 \times 10'}{27'}$ = 5.9 Cu. Yds.
203 Embankment

CALC. R.H.H. DATE 6/26/68.
CHKD. L.M. DATE 6/27/68.

STA. 532+00 - STA. 533+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

303
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA RIW 165'

LA RIW 160'

870
860

℄ Ramp F

6:1 8:1 8:1 8:1 8:1 3:1

15" Conduit

86830
535+00
876.0

End Area		Volume	
Cut	Fill	Cut	Fill
2620	0		
		4804	0

Sta. 534+30 22' Lt.
604 Std. No. 1 M.H.
Top Elev. = 865.71
Inv. 15" = 860.12
Inv. 18" = 859.87
Inv. 21" = 859.62

Sta. 534+50 ℄
604 Std. No.5 C.B.
℄ Grate = 863.22
Inv. 18" = 860.38

LA RIW 165'

LA RIW 165'

870
860

8:1 8:1 3:1

86770
534+50
875.2

Sta. 534+50 Rt.
End 667 Jute Matting 11:0" Wide

2568	0		
		4518	0

603.30' x 18" Conduit
Type "C" Cl. B Bedding
@ 1.70 %

LA RIW 158'

LA RIW

870
860

Sta. 534+12.50 Rt.
End Median Guard Rail

8:1 6:1 G.R. G.R. 6:1 8:1 2.5:1

21" Conduit

86710
534+00
874.5

Sta. 533+73
End 601

Sta. 533+65
Begin 601

Rock Channel Protection Type B 2'-0" x 8'-0"

Rock Channel Protection Type B 2'-0" x 8'-0"

LA RIW 152'

2312	0		
		4142	0

Sta. 533+73.50 Lt.
End Guard Rail

Cin. - Batavia Pike

LA RIW

870
860

6:1 G.R. 8:1 8:1 6:1 G.R. G.R. 6:1 8:1 ℄ Ramp F G.R. 8:1 2.2:1

21" Conduit

86650
533+50
873.6

Sta. 533+50 Rt.
End Guard Rail

2160	0		
		4018	37

CALC. RHH DATE 6/26/68

CHKD LM DATE 6/27/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 533+50 – STA. 535+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

304
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

LA R/W 1G3'
870
860
6:1
8:1
℄ Ramp H

Ramp F
LA R/W
Match Line D
3:1
870
140 160 180

Sta 536+81.15 79.10 Rt.
604 Std. No. 6 C.B.
R. Grate = 870.07
Inv. 12" = 864.71

870.70
537+00
875.9

Back
Ahead
See Sht. No. 377

LA R/W 1G4'
870
℄
870.44
536+78.36
876.0
℄ Ramp F
C.R.
C.R.
Match Line C

LA R/W 1G4'
870
860
℄
℄ 12" Conduit
3:1

870.10
536+50
876.4

Match Line C
℄
3:1
LA R/W
870
145 165

Sta 535+77.79 75.10 Lt.
604 Std. No. 6 C.B.
R. Grate = 868.90
Inv. 12" = 865.50

Sta 535+77.79 22' Lt.
604 Std. No. 1 M.H.
Top Elev. = 867.48
Inv. 12" = 861.79
Inv. 12" = 861.79
Inv. 15" = 861.54
Inv. 6" = 863.30

LA R/W 1G5'
870
860
℄ Ramp H
603.54' 12" Conduit Type B Class B Bedding @ 6.87%
12" Conduit to C.B. @ Sta. 536+81.15
869.50
536+00
876.9

℄
LA R/W
3:1
Match Line B

Match Line B
3:1
LA R/W 180'
870
140

Sta. 535+80
Pavement Removed under Item 203 Excavation not including Embankment Construction and Earth Backfill shall be included in Item 203 Embankment, See Sheet No. 50

8 x 30 x .67 / 27 = 6.0 cu. yds.

LA R/W 1G5'
870
860
6:1
8:1
15" Conduit
868.90
535+50
876.7

8:1
3:1
Match Line A
℄ Ramp F

Match Line A
3:1
LA R/W
870
140 160

	End Area Cut	End Area Fill	Volume Cut	Volume Fill
	1270	0		
			1088	0
Ahead	1400	0		
Back	2300	0		
			2455	0
	2435	0		
			4792	0
	2740	0		
			5148	0
			G	G
	2820	0		
			5037	0

CALC. PHH DATE 6/26/68
CHK'D LM DATE 6/27/68

STA. 535+50 - STA. 537+00

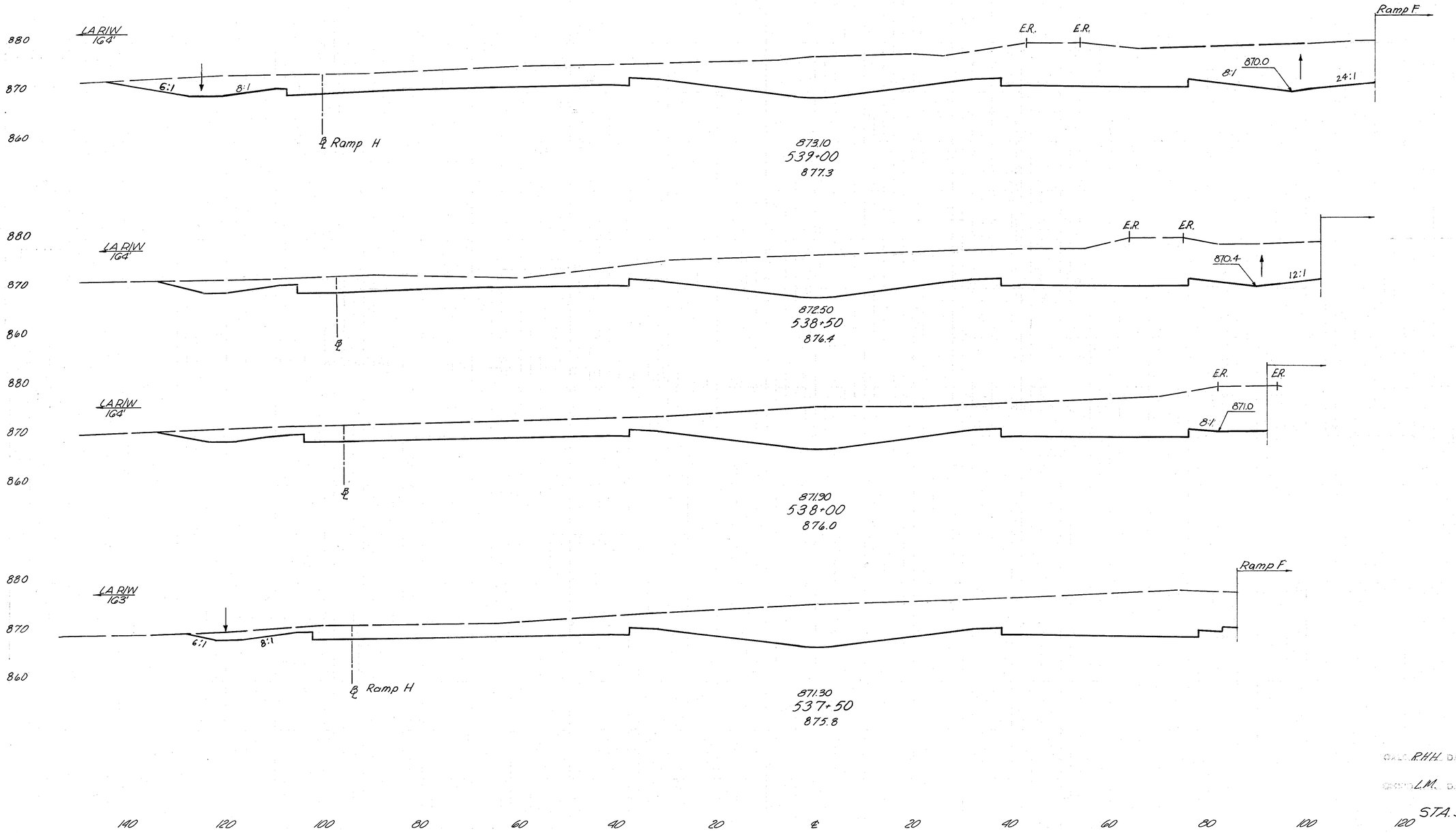
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

305
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
1500	0		
		2620	0
1330	0		
		2344	0
1202	0		
		2154	0
1124	0		
		2217	0

CALC. R.H.H. DATE 6/26/68

CHKD. L.M. DATE 6/27/68

STA. 537+50 – STA. 539+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE.-275- 6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

Sta. 541+27.98
Begin Shoulder Transition

Ramp H

871.80

8:1

870

875.50
541+00
881.9

8:1 8.6:1

869.0

Match Line A

Ramp F

Match Line A

870

140

871.95

6:1 8:1

870

874.90
540+50
881.0

8:1 10:1 20:1

870.0

STA. 525+00 - STA. 540+00

Excavation	115,603	C.Y.
Embankment	1,231	C.Y.

Ramp H

872.1

8:1

E.R. E.R.

8:1 12:1 20:1

870.25

870

874.30
540+00
880.2

Back
Ahead Ramp H Ahead
See Sht. No. 387

℄ Ramp H

℄ A R/W
170

872.25

6:1 8:1

E.R. E.R.

8:1 20:1

870.5

Ramp F

870

873.70
539+50
878.4

	End Area		Volume	
	Cut	Fill	Cut	Fill
	2212	0		
			3966	0
	2071	0		
			3538	0
	1750	0		
			3046	0
Ahead	1540	0		
Back	1822	0		
			3076	0

CHKD. L.M. DATE 6/27/68

CHKD. R.R.R. DATE 6/28/68.

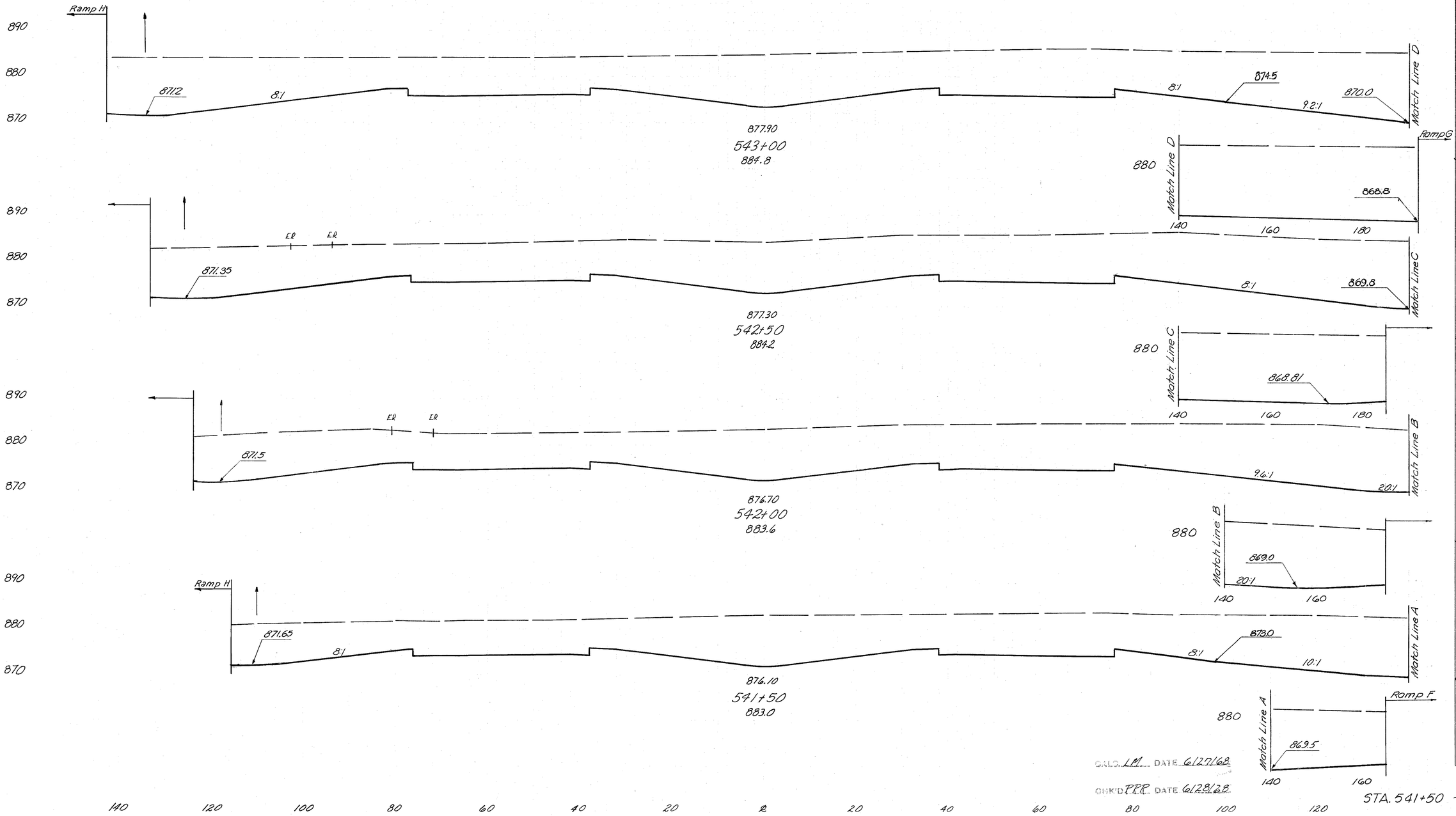
STA. 539+50 ~ STA. 541+00

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

307
638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
3662	0		
		6553	0
3415	0		
		5940	0
3000	0		
		5244	0
2664	0		
		4515	0

CALC. LM DATE 6/27/68
CHK'D PRR DATE 6/28/68

STA. 541+50 ~ STA. 543+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

Ramp I

880

24:1

875.2

8:1

Ramp G

8:1

880.30
545+00
882.1

End Area Cut	End Area Fill	Volume Cut	Volume Fill
1136	0		
		3169	0
2287	0		
		4679	0
2763	0		
		5649	0
3338	0		
		6481	0

Match Line B

880

Bldg.

873.5

874.0

8:1

Ramp I
Ramp H

Match Line B

880

150

879.70
544+50
883.5

Match Line A

ER

880

872.2

Match Line B

879.10
544+00
885.7

Match Line A

880

150

Match Line B

880

140

Ramp H

ER. ER.

880

Sta 543+46, 159' Lt.
ADA Std. No. 5 C.B.
℄ Grate =871.0
Inv. 18" =867.89

872.0

8:1

873.7

8:1

8.8:1

Match Line A

878.50
543+50
885.4

603.384' x 18" Conduit Type B 706.02 Cl. III
or 706.08 with Cl. B Bedding @ 1.00%

Ramp G

880

Match Line A

870.0

869.0

140

DESD. LM DATE 6/27/68

CHKD. TRR DATE 6/28/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

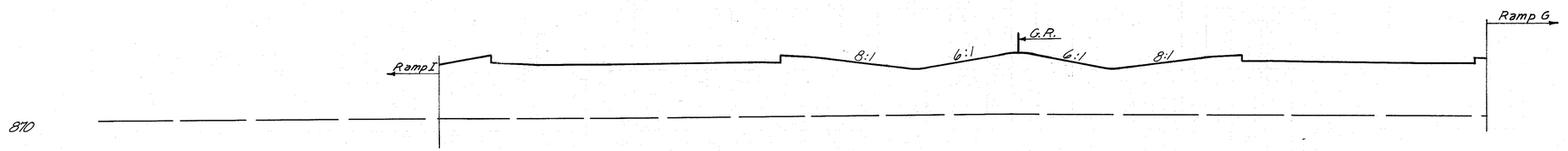
STA. 543+50 ~ STA. 545+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

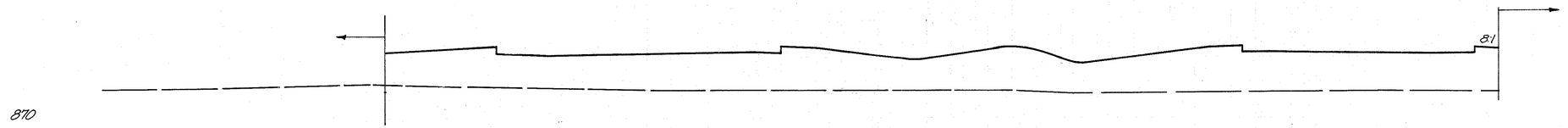
CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

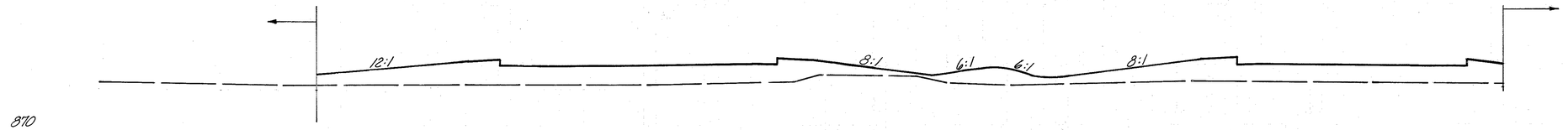


882.66
546 + 95.44
878.5

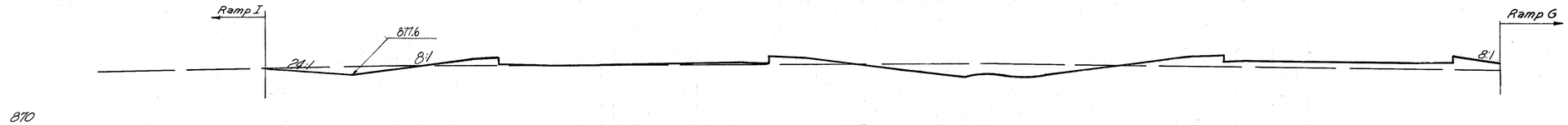
Sta 546+61.11
Begin Median Guard Rail



882.10
546 + 50
874.4



881.50
546 + 00
876.5



881.04
545 + 62
879.8

End Area		Volume	
Cut	Fill	Cut	Fill
0	1573		
		0	2296
0	1156		
		0	1584
0	555		
		68	464
96	104		
		1414	119

CALC. LM DATE 6/27/68

CHK'D XXX DATE 6/28/68

STA 545+50 ~ STA 546+95.44

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill
0	5396		
		0	10258
0	5680		
		0	14556
		0	7110
0	5550		
		0	2040
Ahead 0	1830		
Back 0	2764		

Sta 549+44.6 Rt
End Guard Rail
Sta 549+36.11
End Median Guard Rail

885.06
549+00
864.2

884.49
548+50
865.4

Sta 547+94.6 Rt
Begin Guard Rail

883.71
547+80
866.9

883.06
547+27.98
871.0

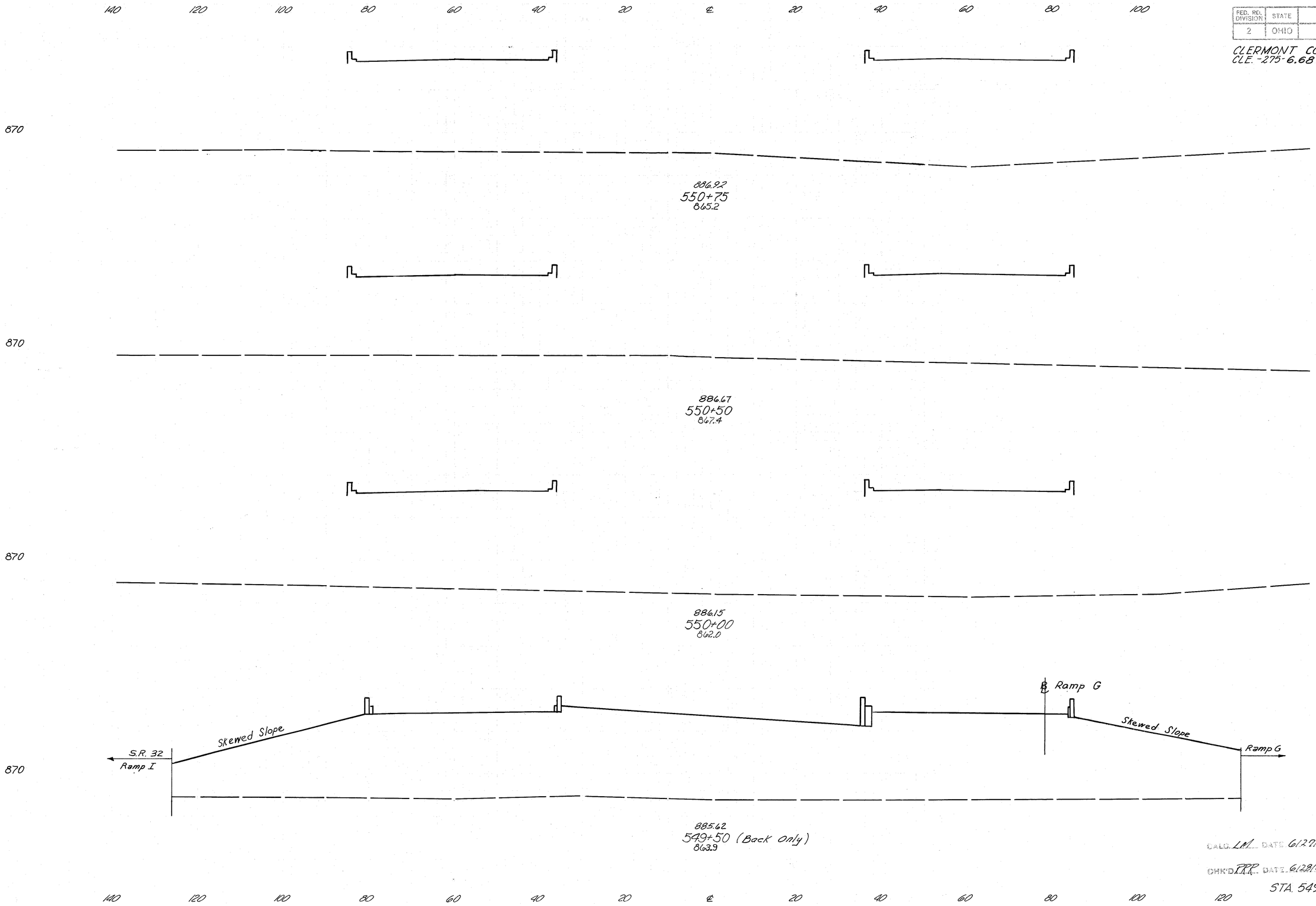
DALG. LM DATE 6/27/68
CHK'D PRR DATE 6/28/68

STA. 547+50 – STA. 549+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

311
638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
0	0		
		0	0
0	0		
		0	0
0	0		
		0	4225
0	4563		
		0	9221

CALC. LAA DATE 6/27/68

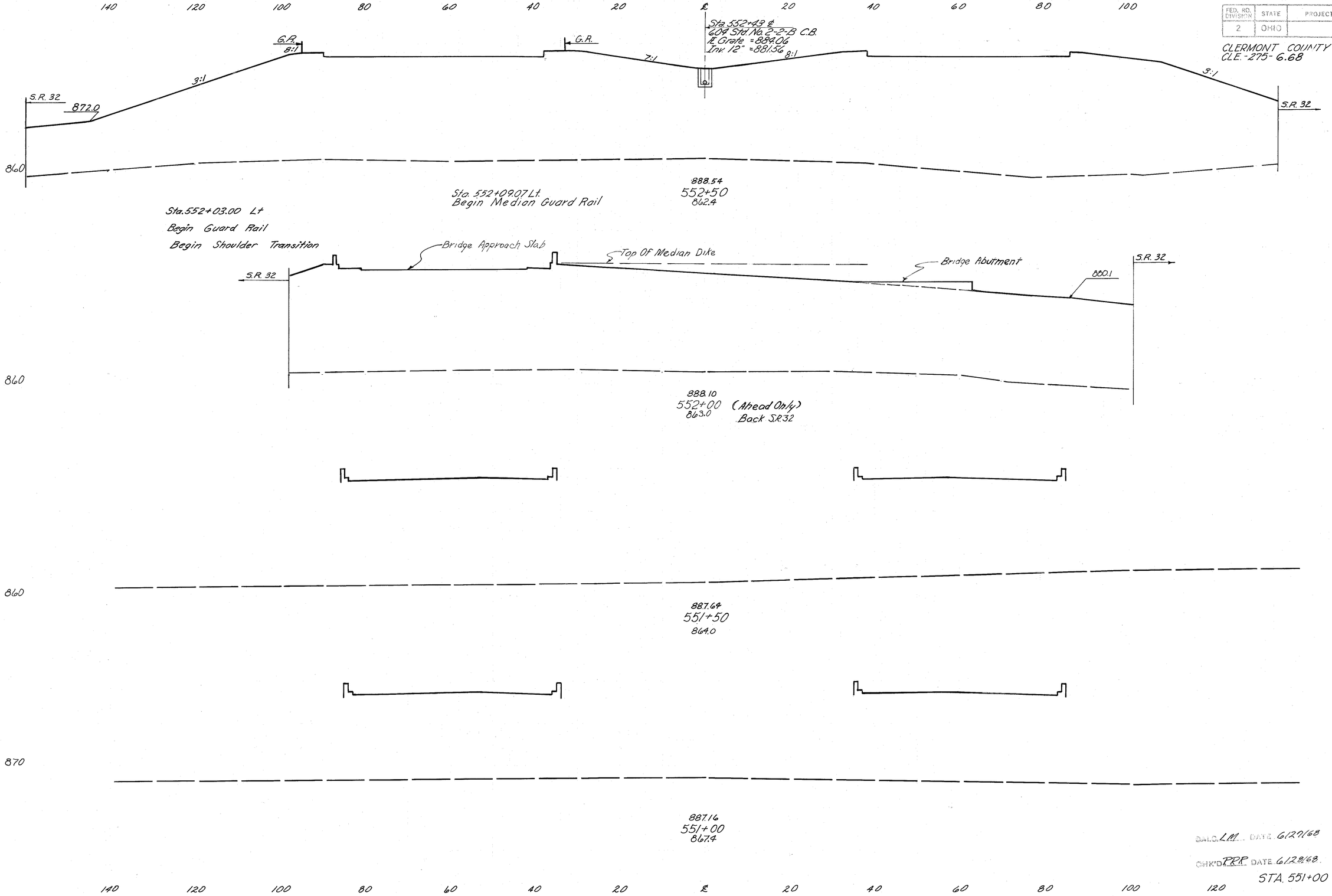
CHK'D. RRR DATE 6/28/68

STA. 549+50 ~ STA. 550+75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

312
638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
0	6800		
		0	10449
0	4485		
		0	4153
0	0		
		0	0
0	0		
		0	0

DES. LM DATE 6/27/68
CHK'D PRR DATE 6/28/68

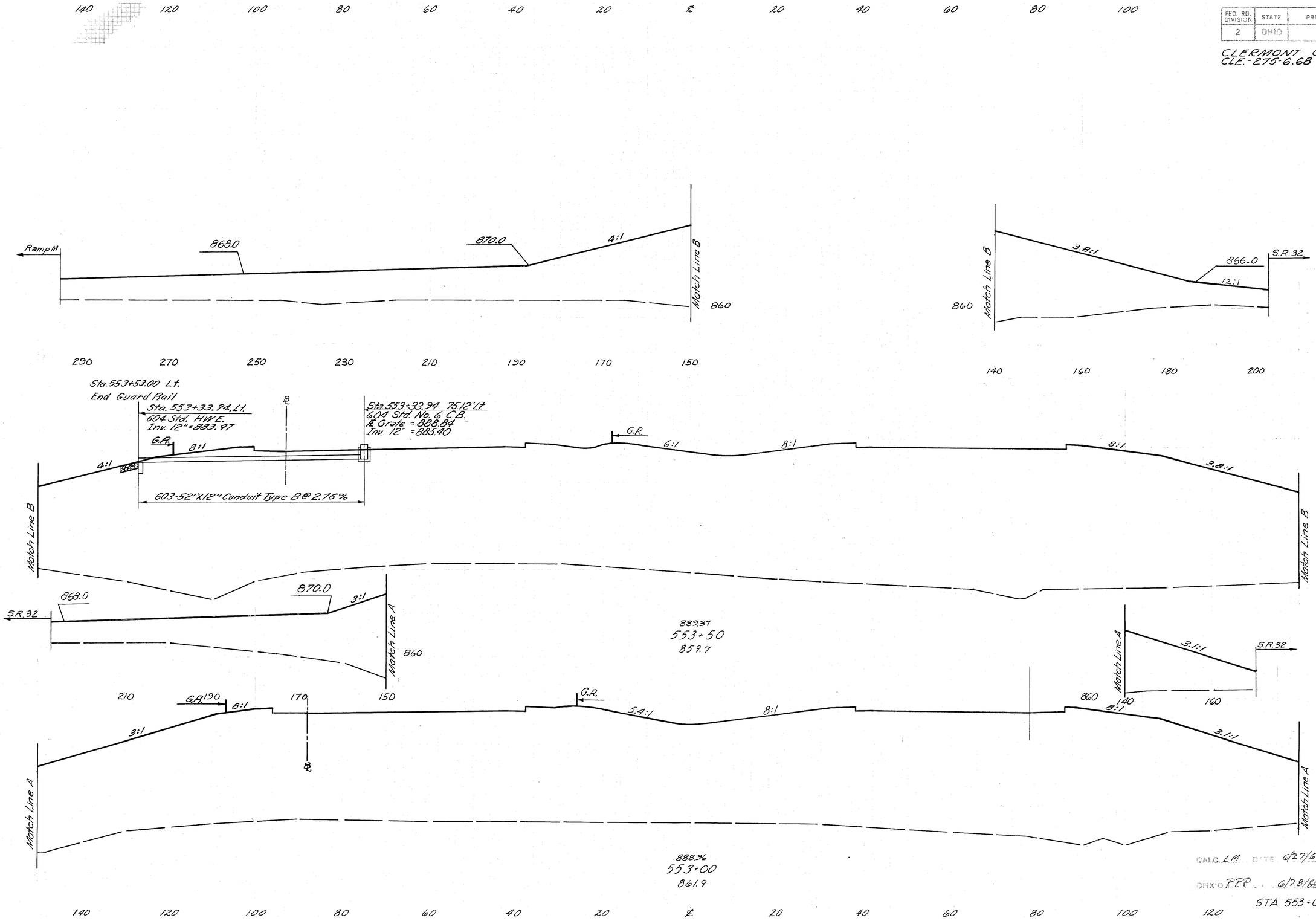
STA. 551+00 ~ STA. 552+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

313
638

CLERMONT COUNTY
CLE.-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill
		0	10230
		0	15486
		0	6485
		0	12310



CALC. L.M. DATE 6/27/68

CHK'D R.P.P. 6/28/68

STA. 553+00 ~ STA. 553+50

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

Match Line B
860
4.4:1
865.7
8639
Varies
S.R. 32
140 8:1 160 180 200 220 8:1 886.1 4.4:1
℄ Ramp "K"
Match Line B
0 8392

Ramp M
8:1 5.4:1 G.R. 6:1
860

889.75
554+00
857.40

Ramp M
868.0
870.0
4:1
Match Line A
860

Match Line A
860
4.1:1
866.2
Varies
S.R. 32
850
0 6606

300 290 270 250 230 210 190 170 150 140 160 180 200 220

Back
See Sheet No 422 Ramp Ahead
℄ Ramp "M"
℄ Ramp "K"

888.5
4:1 8:1 8:1 5.5:1 G.R. 6:1 8:1 8:1 886.2 4.1:1
Match Line A
870
860
Match Line A
Ahead 0 7822
Back 0 11466

889.58
553+77.7
858.70

0 11130

DRAWN LM DATE 6/27/68
CHECKED TRR DATE 6/28/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 STA. 553+77.7 - STA. 554+00

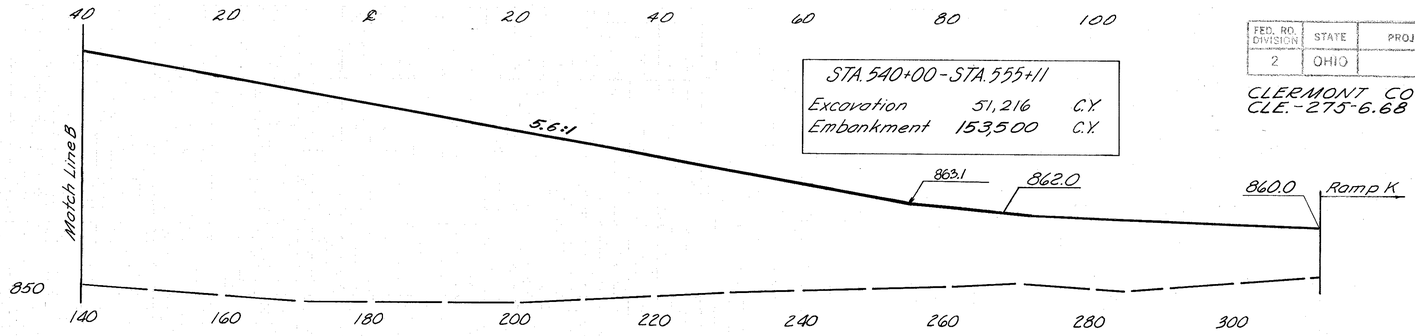
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

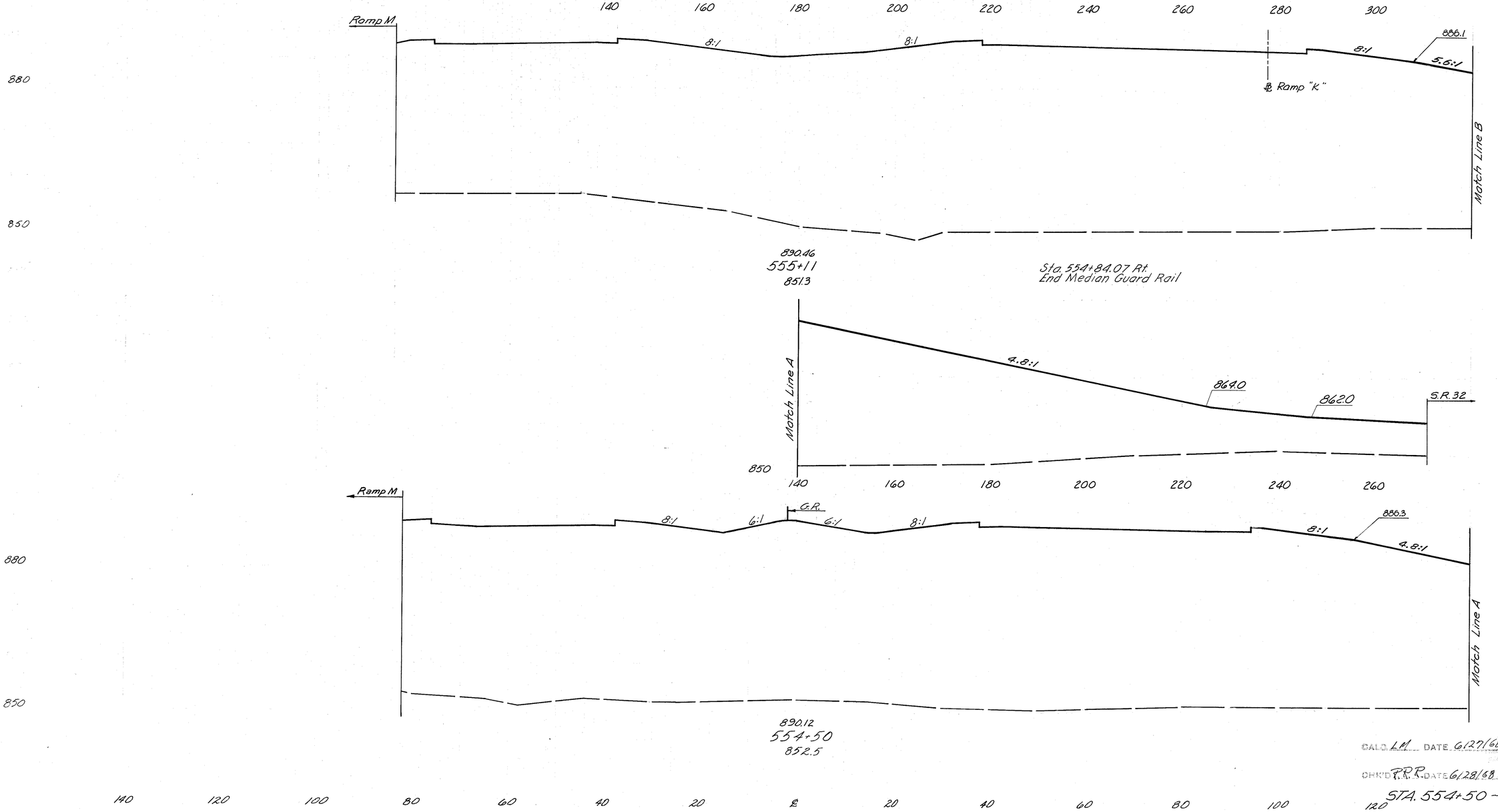
315
638

CLERMONT COUNTY
CLE.-275-6.68

STA. 540+00 - STA. 555+11

Excavation	51,216	C.Y.
Embankment	153,500	C.Y.





End Area		Volume	
Cut	Fill	Cut	Fill
0	11,304		
		0	24,284
		0	10,194
		0	17,209

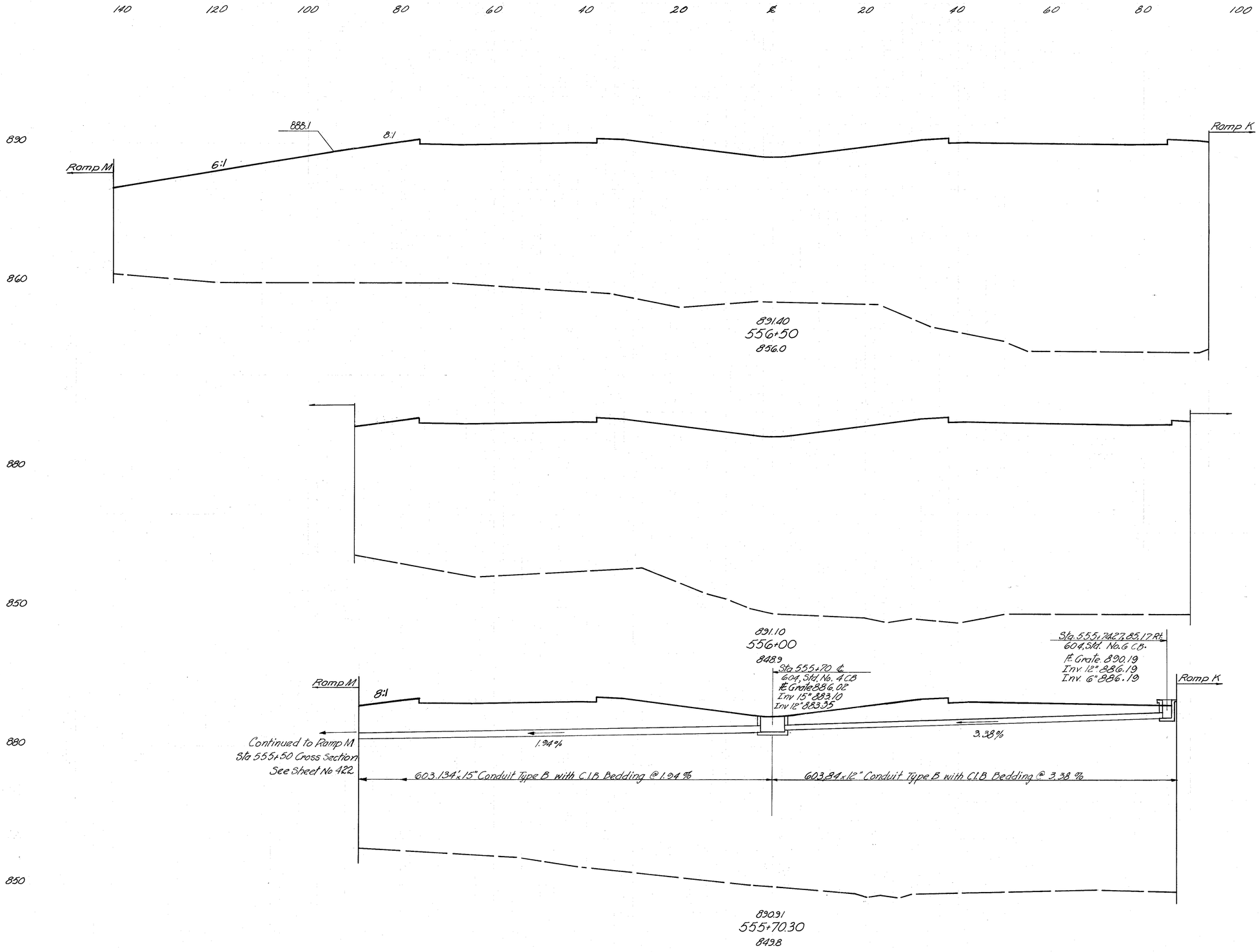
CALC. LM DATE 6/27/68

CHK'D P.R.R. DATE 6/28/68

STA. 554+50 - STA. 555+11

FED. RD. DIVISION	STATE	PROJECT		316 1638
2	OHIO			

CLERMONT COUNTY
CLE-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
0	7943		
		0	13532
0	6672		
		0	7397
0	6644		
		0	19610

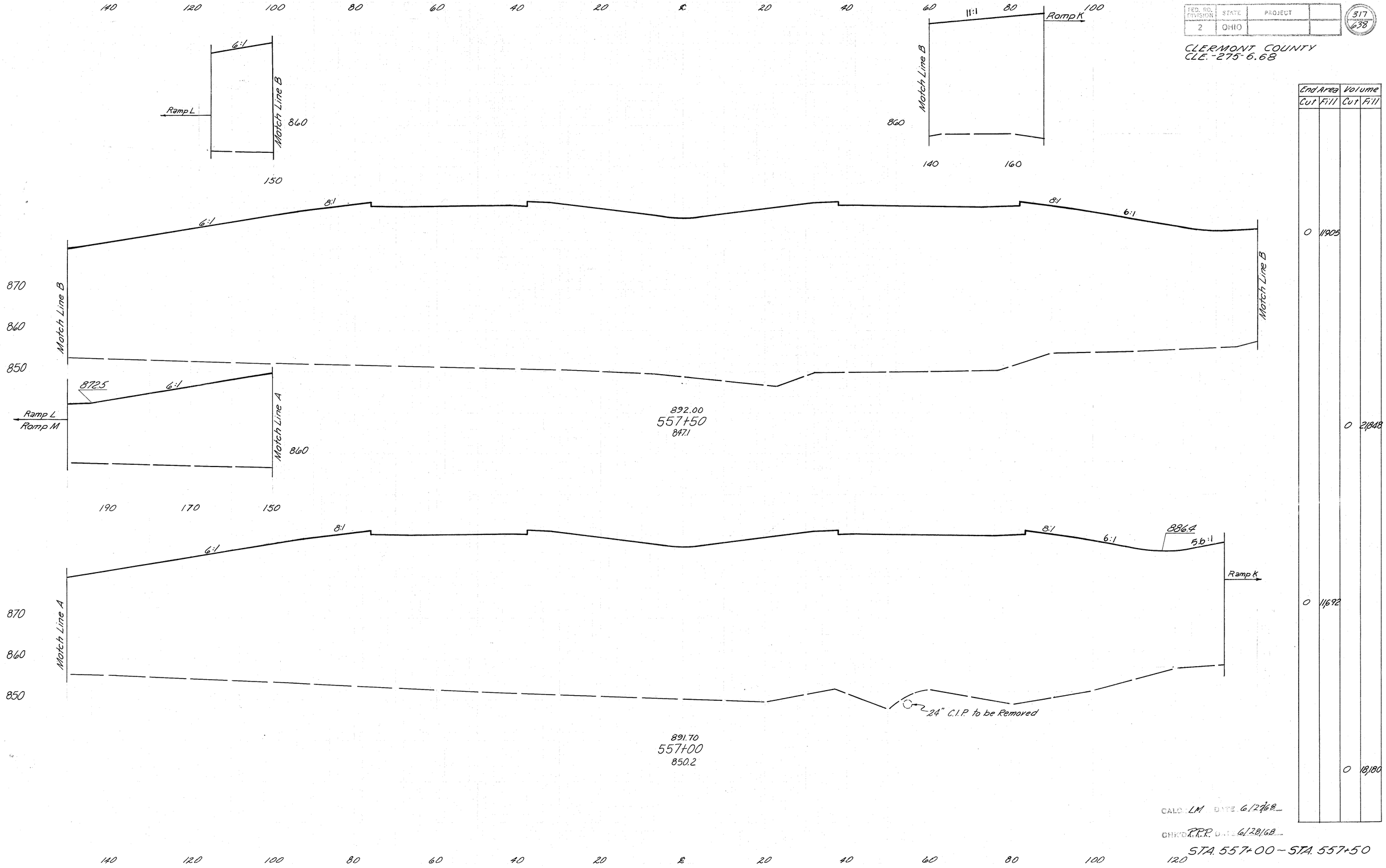
CALC. L.M. DATE 6/27/68
CHK'D. P.P.P. DATE 6/28/68

STA. 555+70.30 – STA. 556+50

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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638

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
0	11905		
		0	21848
0	11,692		
		0	18,180

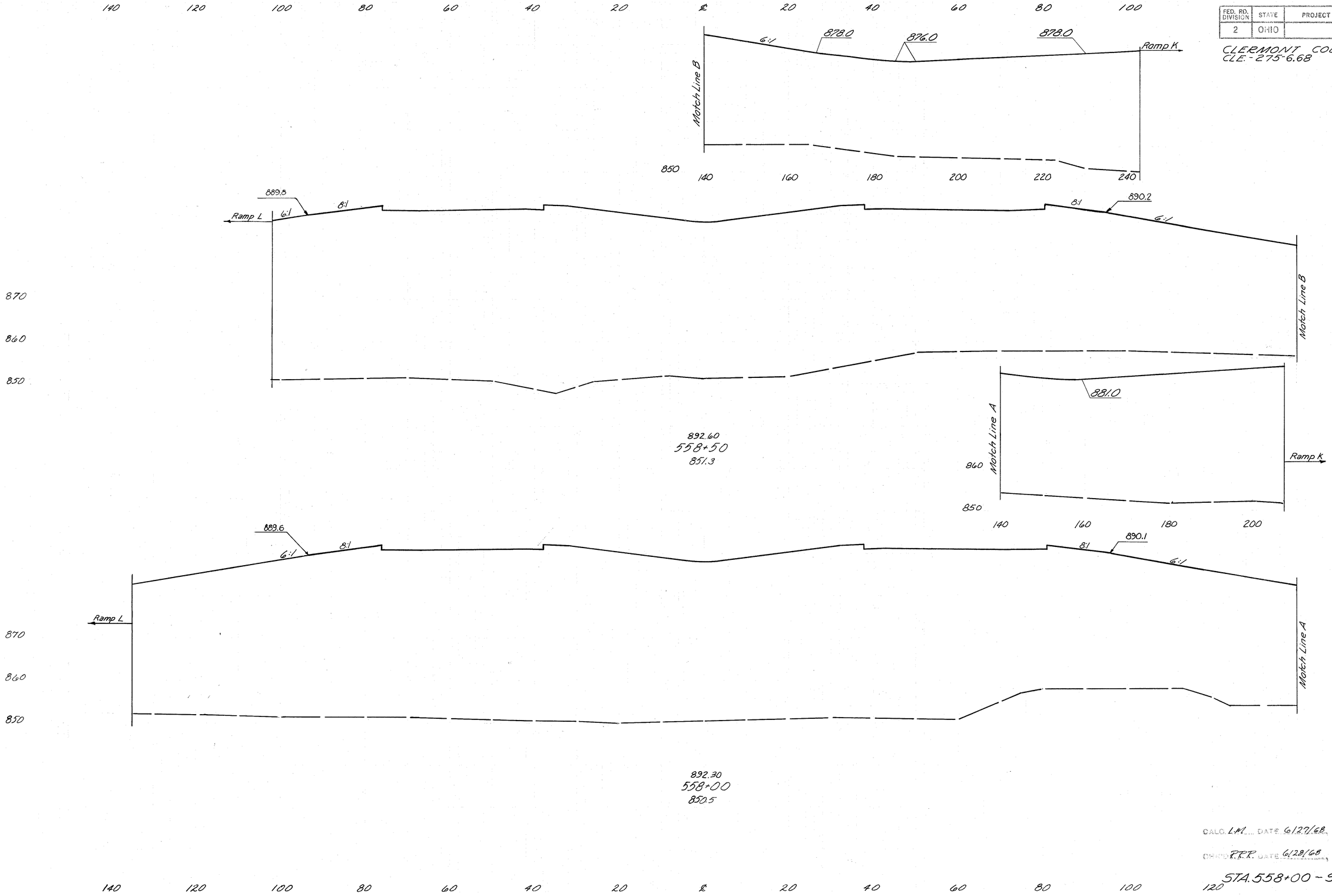
CALC. LM DATE 6/27/68
CHK'D. RRR DATE 6/28/68

STA. 557+00 – STA. 557+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

318
(38)

CLERMONT COUNTY
CLE.-275-6.68



End Area		Volume	
Cut	Fill	Cut	Fill
0	11233		
		0	21525
0	12090		
		0	22217
		0	22217

CALC. L.M. DATE 6/27/68

CHKD. P.R.R. DATE 6/28/68

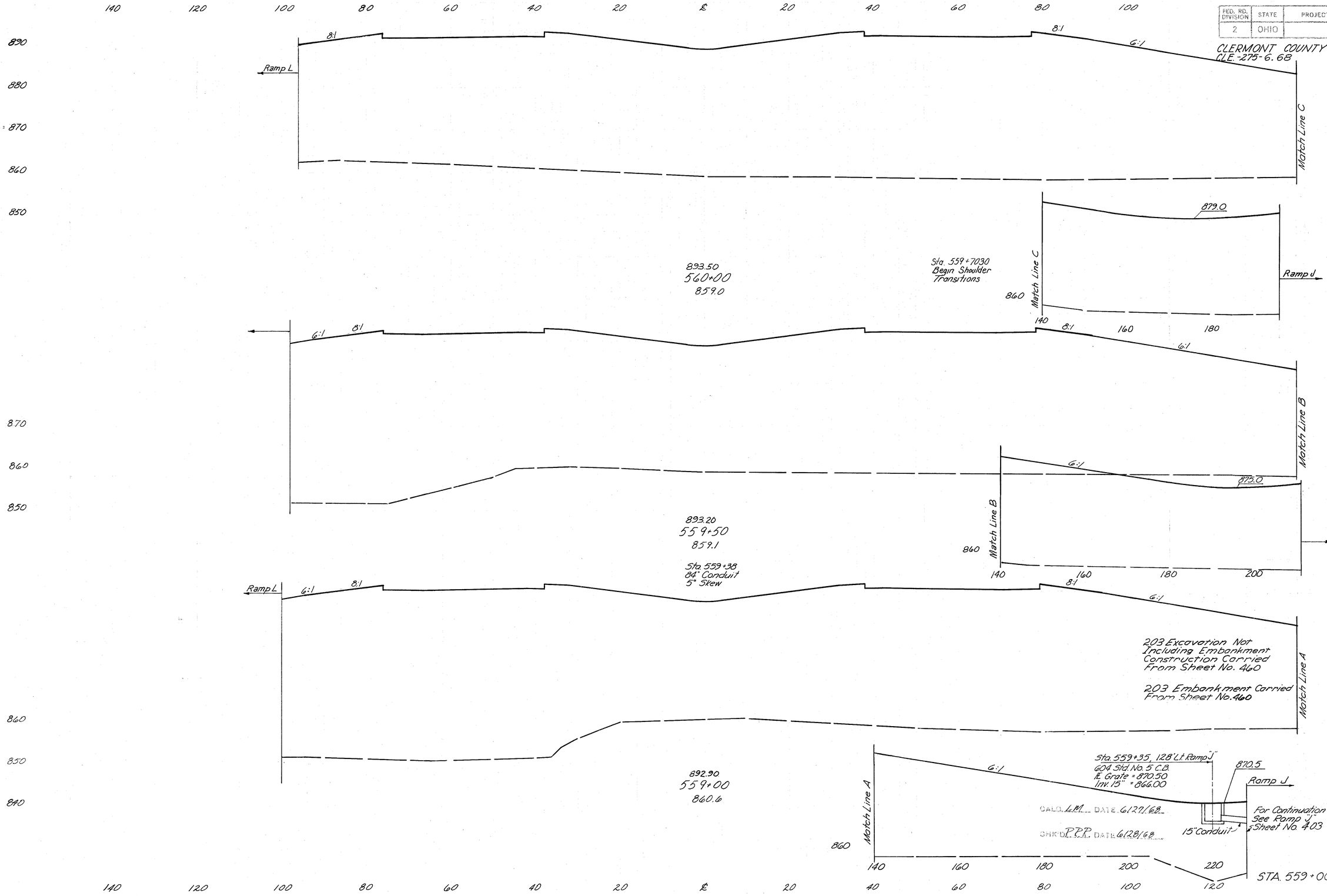
STA. 558+00 – STA. 558+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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630

CLERMONT COUNTY
CLE-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill
0	8650		
		0	16737
0	9426		
		0	17762
0	9738		
		133	52
0	9436		



STA. 559+00 ~ STA. 560+00

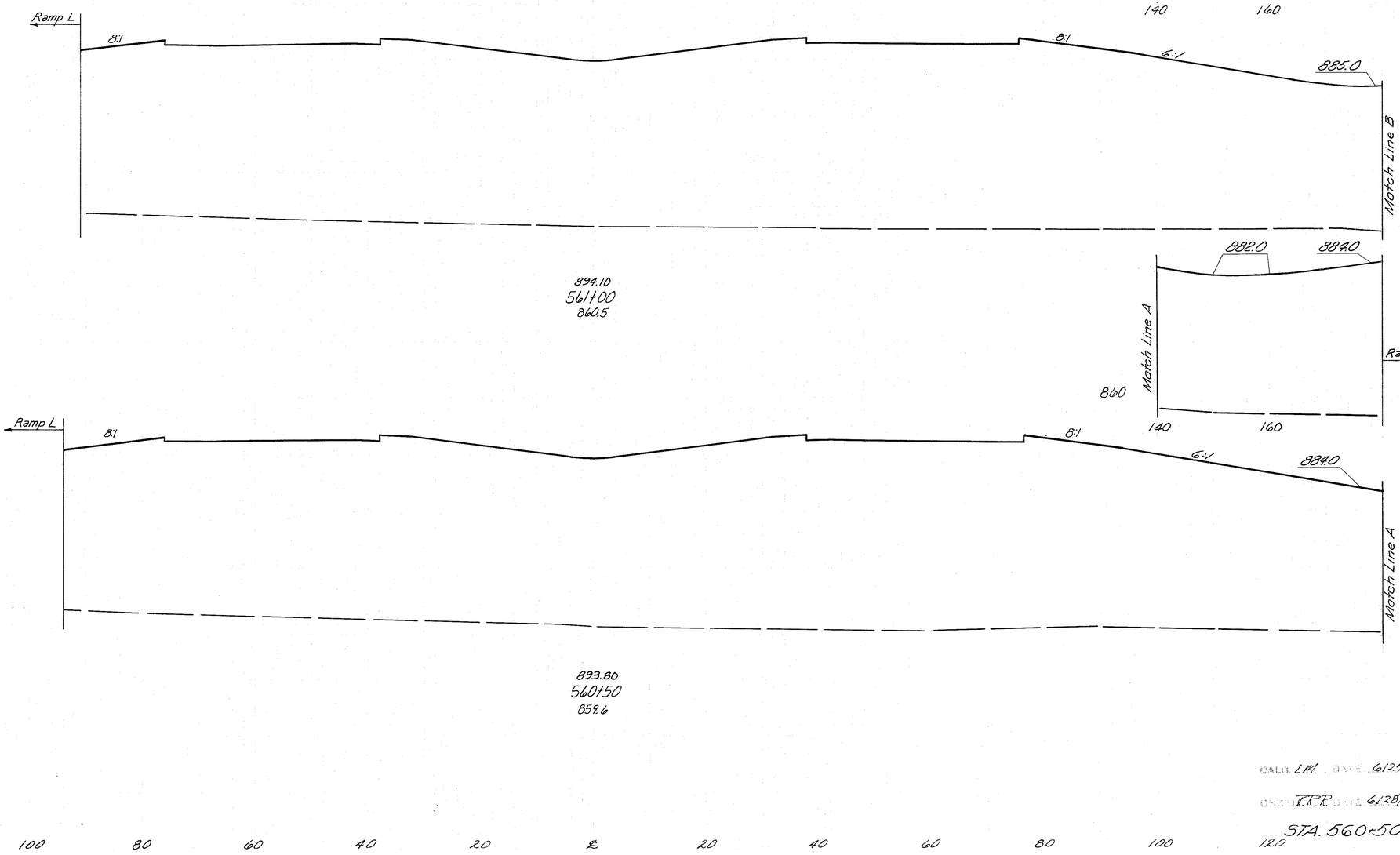
FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

320-420

320
638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



End Area		Volume	
Cut	Fill	Cut	Fill
0	7803		
		0	14869
0	8256		
		0	15,653

CALC. LM DATE 6/27/68

CHKD. TRR DATE 6/28/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 560+50 - STA. 561+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

321
6.38

CLERMONT COUNTY
CLE.-275- 6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

890
860

Ramp L
12:1
8:1
8.5:1
Ramp J
E.D.
E.D.
895.00
562+50
864.0

890

12:1
8:1
6:1

860

Existing 16" Water Main in 36" Casing Pipe?
Sta. 562+16
894.10
562+00
Existing 8" Water Main
Sta. 562+20
Existing 8" Sanitary Sewer to be Abandoned
864.2
Proposed 8" San. Sewer See Sht. No. 17
Sta. 561+90
Sta. 561+70.30
End Shoulder Transition
Well @ Sta. 561+80 Rt.
4'x4'x10'/27' = 6 Cu Yds.
203 Embankment

Ramp L
8:1
8:1
6:1
Ramp J
887.0
6:1

880

860

894.40
561+50
862.1
Building
73'

End Area		Volume	
Cut	Fill	Cut	Fill
0	56.83		
		0	11.65
0	63.75		
		0	122.91
			6
0	68.46		
		0	135.69

CALC. L.M. DATE 6/27/68
CHK'D R.P.R. DATE 6/28/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

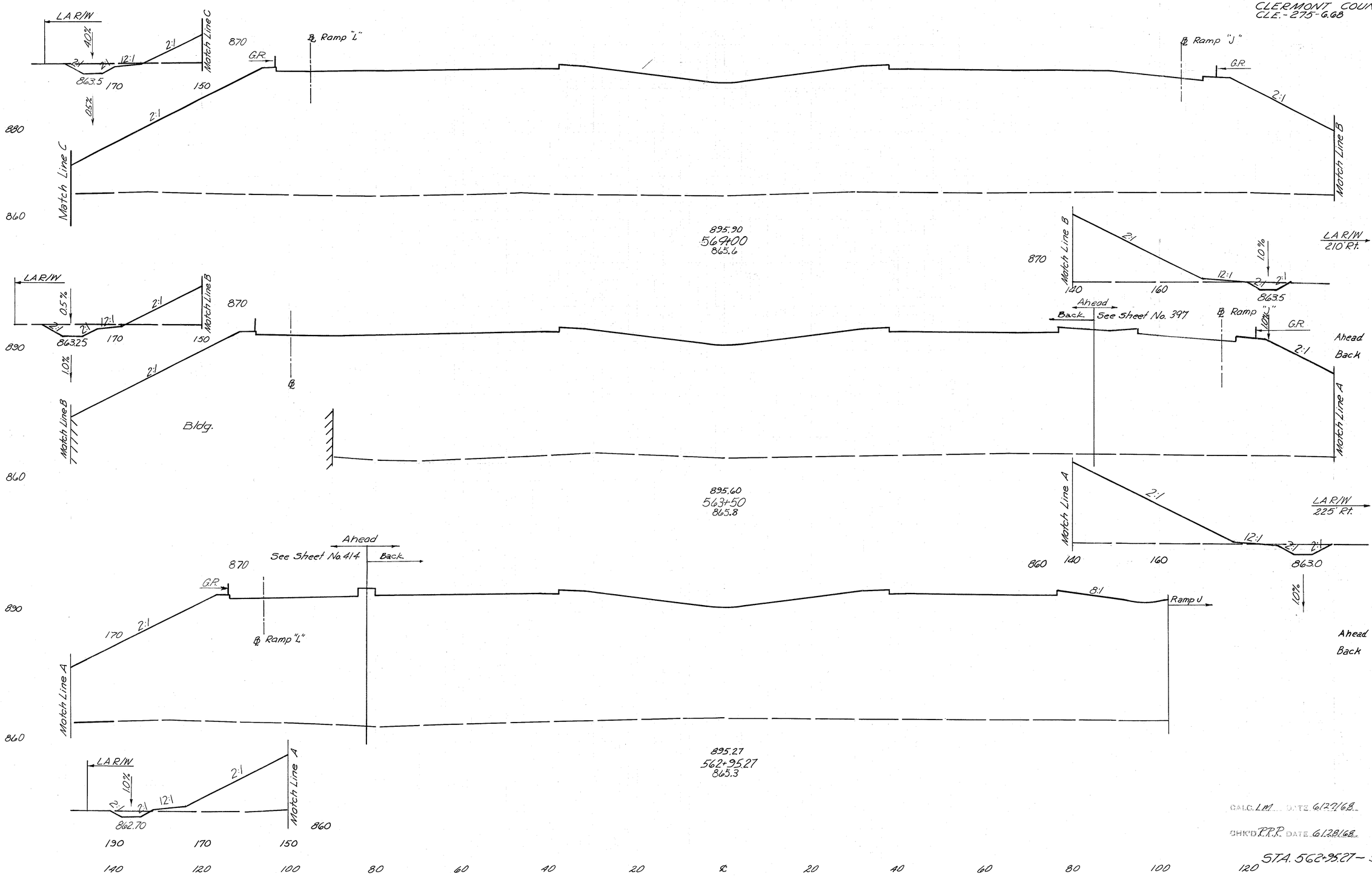
STA. 561+50 - STA. 562+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



	End Area		Volume	
	Cut	Fill	Cut	Fill
	40	8793		
			87	15883
Ahead	54	8156		
Back	30	6346		
			39	13698
Ahead	8	7170		
Back	0	5286		
			0	9140

CALC. LM DATE 6/27/68

CHK'D R.R.R. DATE 6/28/68

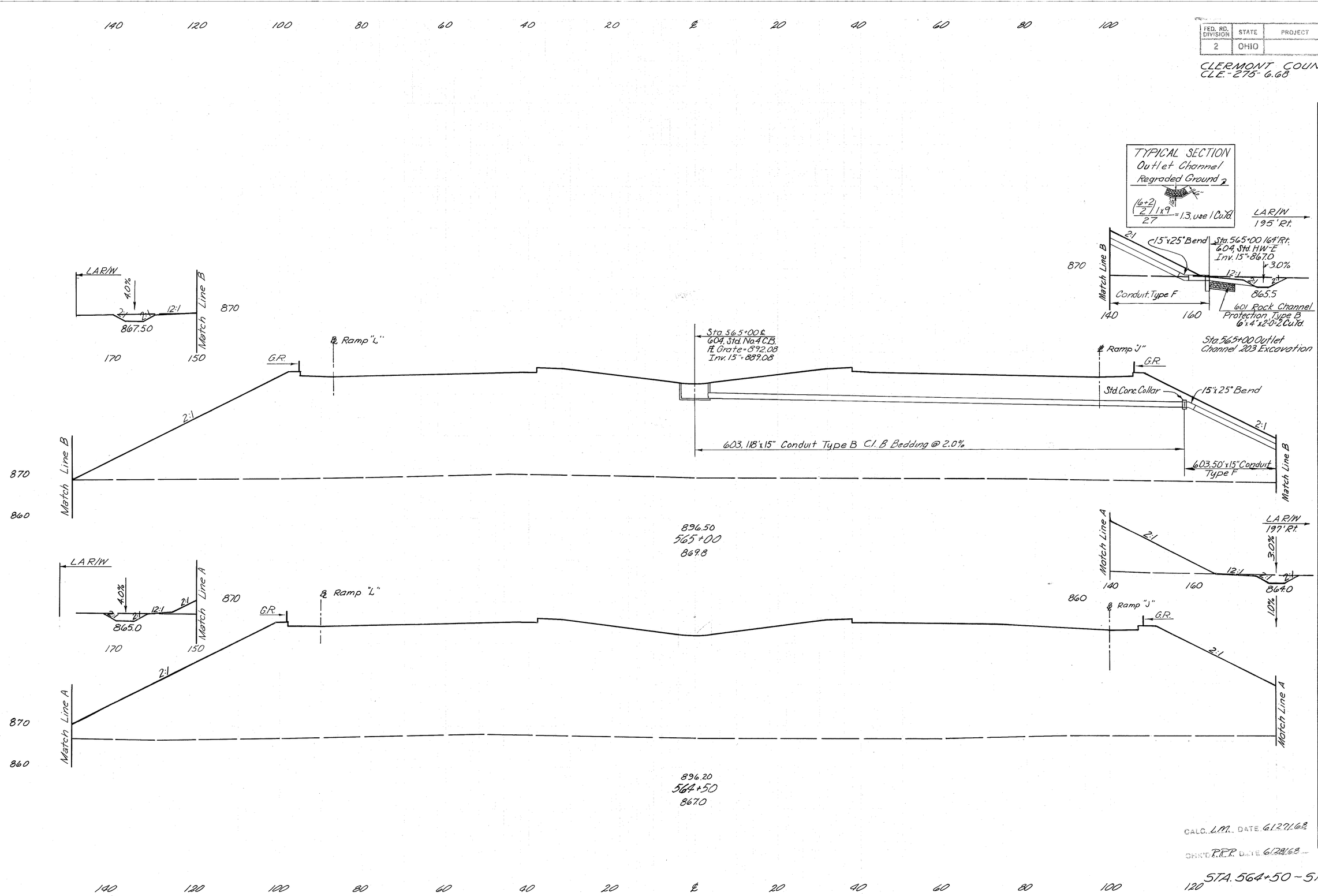
STA. 562+95.27 – STA. 564+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68

End Area		Volume	
Cut	Fill	Cut	Fill
20	6500		
53	12748		
33	7268		
68	14870		



CALC. L.M. DATE 6/27/68

CHK'D. R.R.R. DATE 6/28/68

STA. 564+50 - STA. 565+00

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

324
638

CLERMONT COUNTY
CLE-275-6.6.8

℄ Ramp "L" ℄ Ramp "J" G.R.

LA R/W 16.2' Lt. 2.0% 2:1 12:1 2:1 2:1 875.0 870

898.00
567+50
877.1

Match Line D 2:1 12:1 2:1 0.5% LA R/W 870 869.75 140 160 180

18 4808

℄ ℄

Match Line C 870 874.0 LA R/W Match Line C 870 170 150

897.70
567+00
876.6

Match Line C 870 140 160 869.5 180 0.5% 1.0% LA R/W

℄ ℄

32 4785

61 9158

Match Line B 2.0% 870 873.0 LA R/W Match Line B 3.0% 870 170 150

897.40
566+50
875.7

Match Line B 870 140 GR 160 869.0 180 LA R/W

℄ Ramp "L" GR ℄ Ramp "J"

34 5096

57 10570

2:1 12:1 Match Line A 870 2:1 LA R/W 3.0% 871.50 Match Line A 870 4.0% 190 170 150

897.10
566+00
874.9

Match Line A 870 140 160 868.5 180 2:1 12:1 2:1 1.0% LA R/W

28 6320

89 23741

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

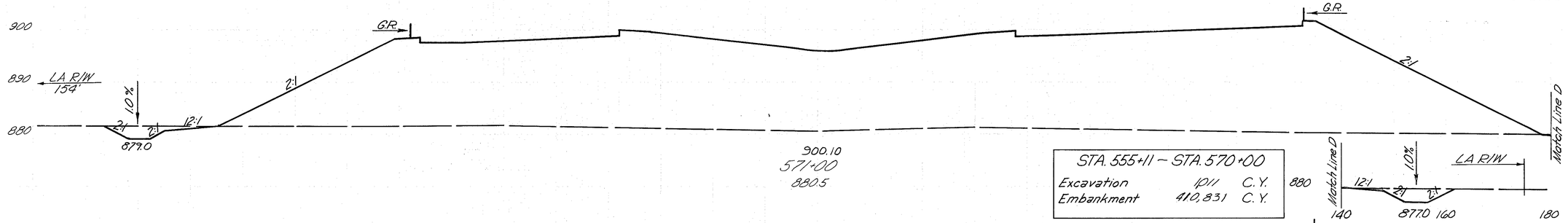
STA. 566+00 ~ 567+50 +3.0%

DRN. LM DATE 6/27/68
CHKD. T.P.T. DATE 6/28/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

325
638

CLERMONT COUNTY
CLE-275-6.68

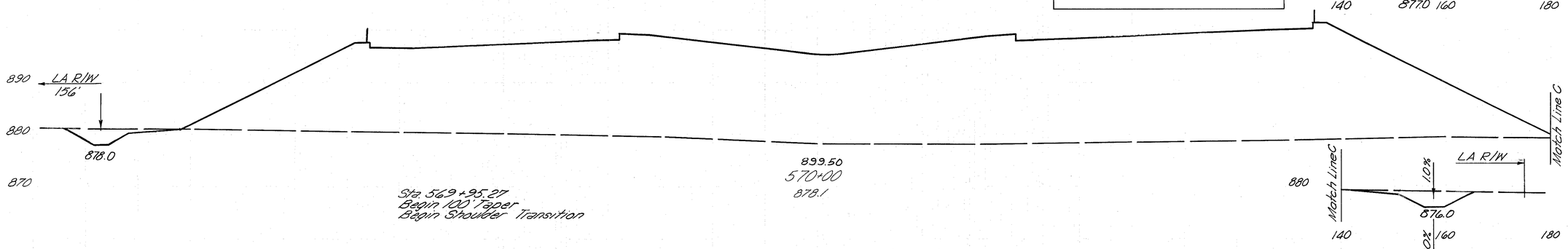


45 3866

185 15186

STA. 555+11 – STA. 570+00

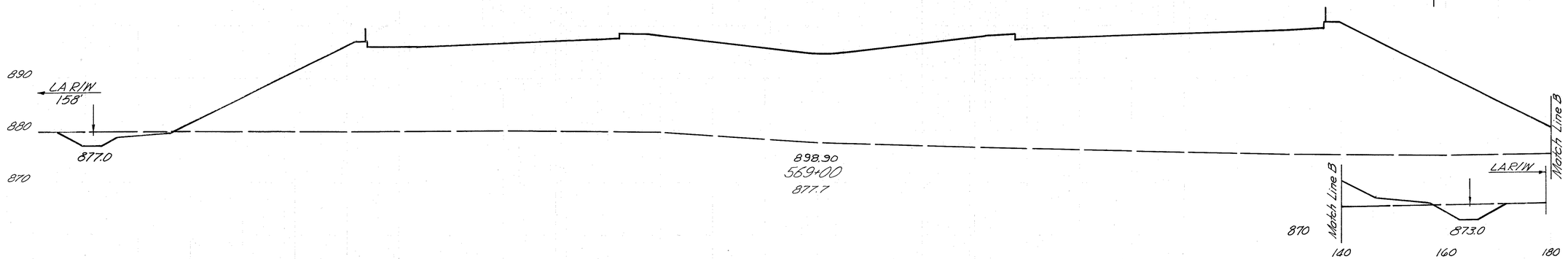
Excavation	1911	C.Y.
Embankment	410,831	C.Y.



55 4334

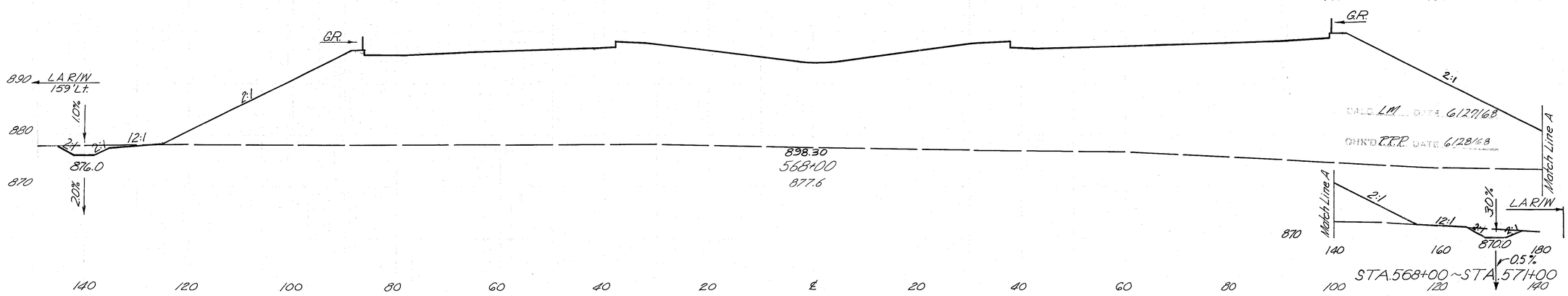
Sta. 569+95.27
Begin 100' Taper
Begin Shoulder Transition

209 19/30



58 5618

137 19/86



DALC LM DATE 6/27/68

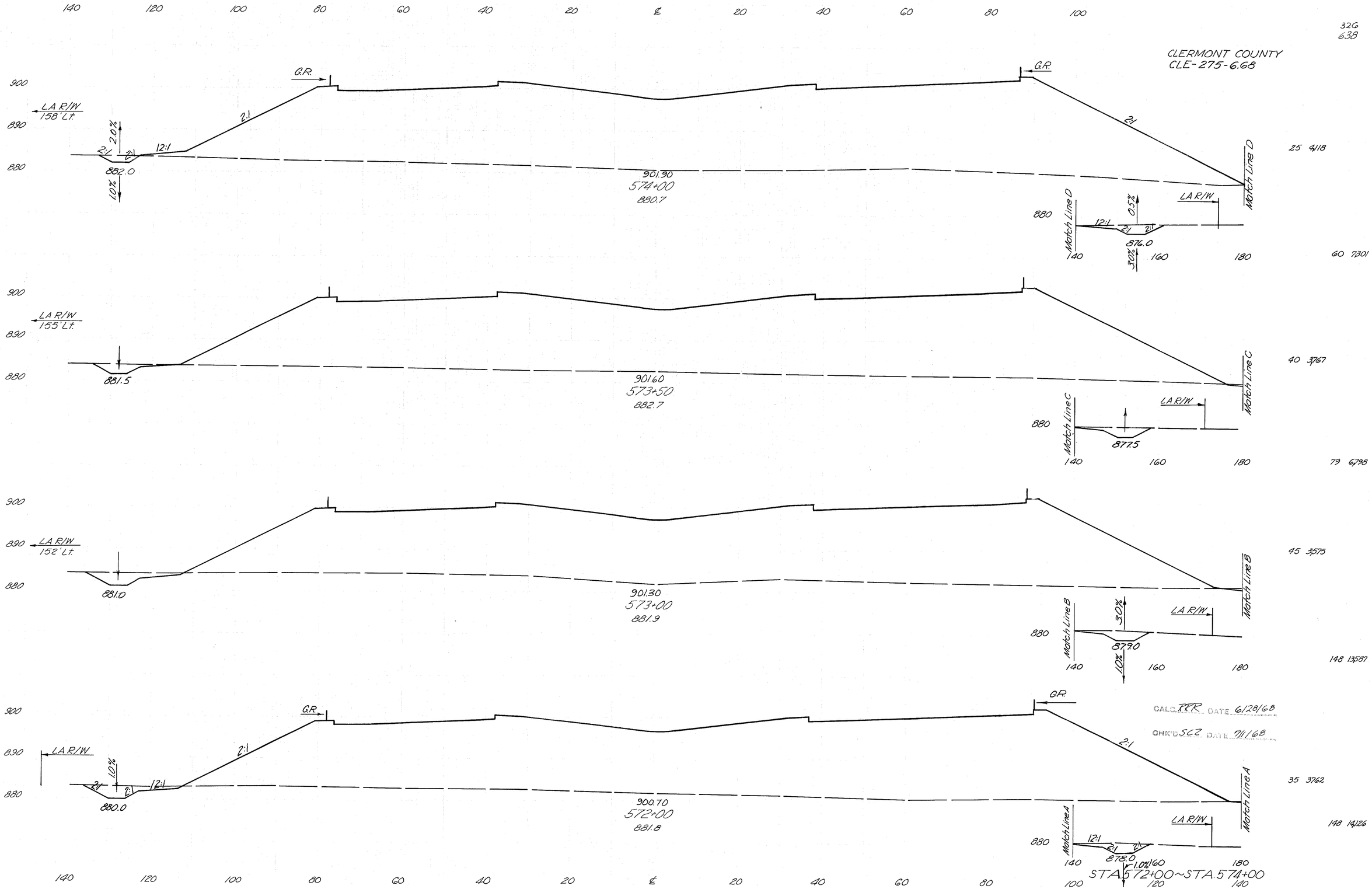
CHK'D PPP DATE 6/28/68

16 4742

31 8842

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

CLERMONT COUNTY
CLE-275-6.68



32G
6.38

25 4118

60 7301

40 3767

79 6795

45 3575

148 13587

35 3762

148 14126

CALC. RKR DATE 6/28/68

CHK'D SCZ DATE 7/1/68

CLERMONT COUNTY
CLE-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

900
890
880
870

G.R.
LA R/W 160' Lt.
0.5%
12:1
2:1
878.75
1.0%
904.00
577+50
876.5
Match Line D
6.0%
7.0%
872.5
LA R/W
140 160 180

LA R/W 161' Lt.
1.0%
878.25
903.70
577+00
878.6
Sta. 576+80
27" Conduit
0.75%
1.0%
Match Line C
7.0%
869.0

Sta. 576+80
203 Excavation not including
Embankment Const. carried
from Sht. No. 461

LA R/W 161' Lt.
0.75%
1.0%
879.0
903.10
576+00
878.6
Match Line B

Typical Section of Outlet Channel
Regraded Ground
(7+2)/2 125 x 9 = 2 Cu. Yds. / 27

Sta. 575+00 ℄
604 Std. No. 4 DB
Æ Grate = 898.00
Inv. 15" = 895.58
Inv. 6" = 897.00

Sta. 575+00 Outlet Channel
203 Excavation
Match Line B
0.5%
875.0
LA R/W

LA R/W 160' Lt.
1.0%
2.0%
880.0
902.50
575+00
879.8
Std. Conc. Collar
603.100' x 15" Conduit Type B C.I. B Bedding @ 2.0%
Sta. 575+00 140' Lt.
HW-E
Inv. 15" = 876.6
2:1
15" x 25" Bends
Match Line A
601 Rock Channel Protection Type B 2 Cu. Yd.
6'x4'x2'-0"
LA R/W 178' Rt.
603.44' x 15" Conduit Type F
CALC. C.R.R. DATE 6/28/68
CHK'D SCZ DATE 7/1/68

STA. 575+00 ~ 577+50

327
638
35 5677
93 14272
37 5334
110 14758
10
40 5016
2
148 17619
40 4498
120 15956

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

328
6.38

CLERMONT COUNTY
CLE-275-6.68

900
890
880

By Others — By Others

3:1 — 2:1

Match Line A — Match Line C

12:1

30 3790

Sta. 580+00 Lt.
Begin Ditch Transition From
4' Bottom to 40' Radius Ditch
Sta. 579+87.50 Lt.
End Guard Rail

905.50
580+00
885.2

END PROJECT STA. 579+87.60

Sta. 579+87.60
End Ramp 'J', 1200' Taper
End Shoulder Transition
Sta. 579+87.50 Rt.
End Guard Rail

L.A. R/W
174' Lt.

3.5%

2:1 — 12:1

883.5

Match Line A

225%

140

890
880

2.0%

2:1 — 2:1

883.0

Match Line C

6.0%

L.A. R/W
173' Rt.

60 7387

900
890
880

L.A. R/W
160' Lt.

G.R.

2.5:1

2:1 — 12:1

G.R.

L.A. R/W
174' Rt.

35 4190

6.0%

880.0

40%

905.20
579+50
883.5

56 8272

900
890
880

2:1

L.A. R/W
155' Lt.

881.25

904.30
579+00
880.4

Match Line B

L.A. R/W

880

4.0%

878.0

225%

140 160 180

46 9702

900
890
880

G.R.

2:1

L.A. R/W
159' Lt.

225%

2:1 — 12:1

879.0

50%

G.R.

2:1

25 5410

Match Line A

56 10265

904.30
578+00
877.6

Sta. 577+95.60 Rt.
Begin Shoulder Transition

880

Match Line A

2.5%

12:1 — 2:1 — 2:1

875.5

6.0%

L.A. R/W

DRN. P.R.R. 6/28/68
CHK'D S.C.T. DATE 7/1/68

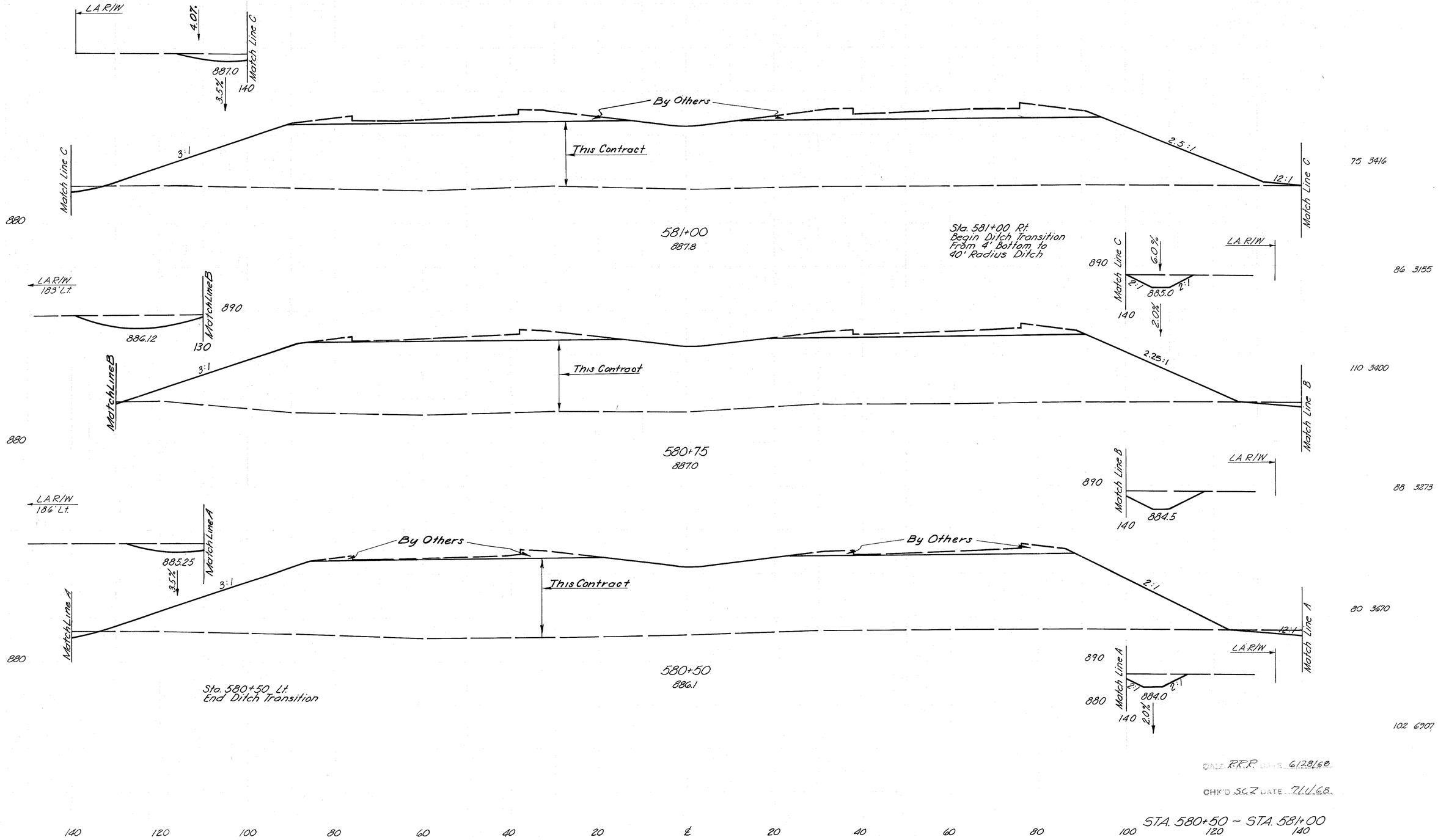
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

STA. 578+00 ~ 580+00

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

329
638

CLERMONT COUNTY
CLE.-275-6.68



75 3416

86 3155

110 3400

88 3273

80 3670

102 6907

DRAWN RRR DATE 6/28/68

CHK'D SCZ DATE 7/1/68

STA. 580+50 ~ STA. 581+00

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

330
638

CLERMONT COUNTY
CLE-275-6.68

STA. 570+00 – STA. 582+50		
Excavation	1,953	C.Y.
Embankment	175,469	C.Y.

890

582+50
895.7

0 0

0 0

END GRADING
STA. 582+15

SECTION A-A

$\frac{\frac{10+4}{2} \times 1 \times 270}{27}$ = 70 Cu. Yds.

Sta. 582+08

70

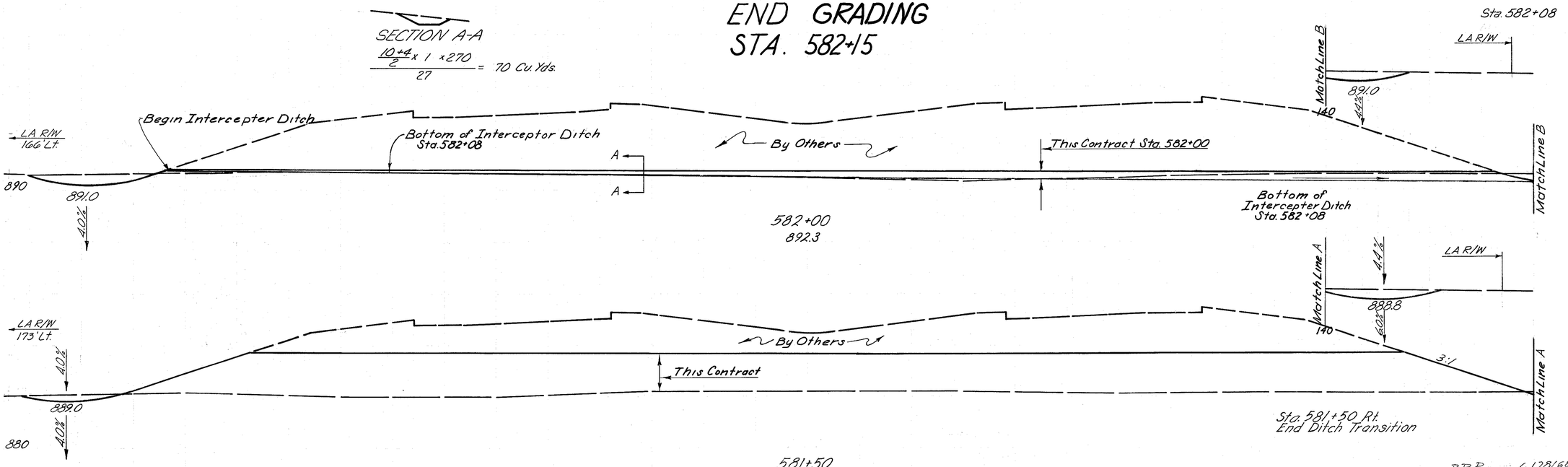
56 221

60 238

108 2021

57 1944

122 4963



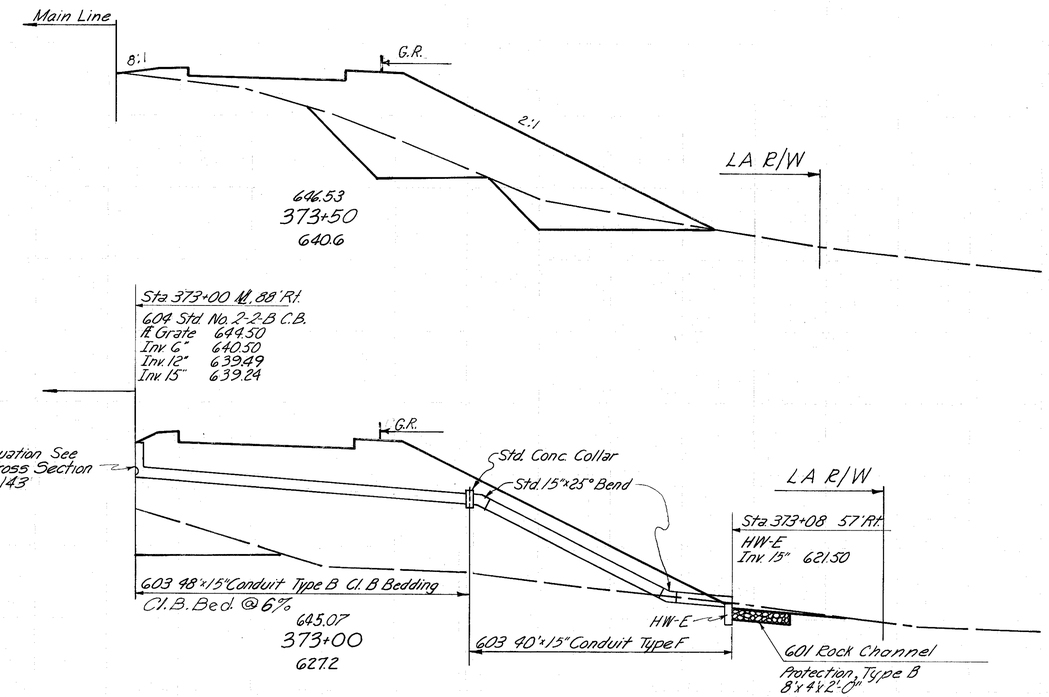
DRN. PRP. 6/28/68

CHK'D SCZ DATE 7/1/68

STA. 581+50 ~ STA. 582+50

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

80 60 40 20 ℄ 20 40 60 80 100



630

630

630

331
638

143 548

193 1411

65 1041

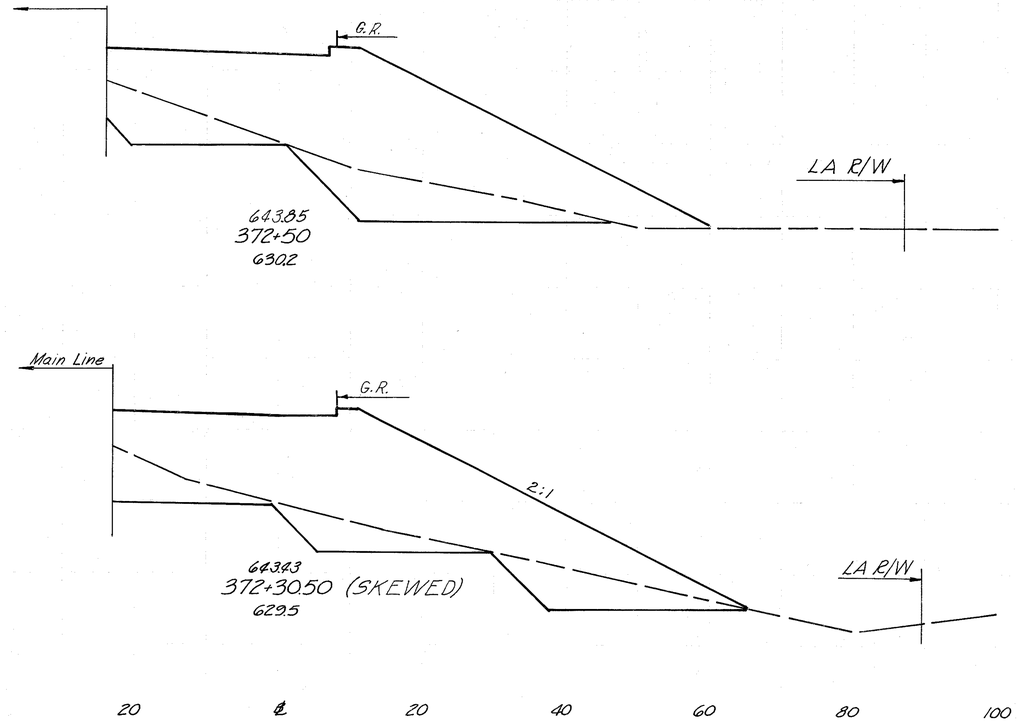
312 1924

272 1102

201 790

284 1086

CLERMONT COUNTY
CLE.-275-6.68



CALC. R.R.R. DATE 6/28/68
CHK'D S.C.Z. DATE 7/1/68

RAMP "T"
STA. 372+30.50 – STA. 373+50

80 60 40 20 ℄ 20 40 60 80 100

80 60 40 20 ℄ 20 40 60 80 100

332
638

CLERMONT COUNTY
CLE.-275-6.68

1294 0

640

Main Line

Approx. Top of Rock

5:1 8:1 4:1

LA R/W

65223
375+00
670.6

2243 0

Sta. 374+50 Rt.
End Guard Rail

Approx. Top of Rock

G.R.

5:1 8:1 4:1

LA R/W

1035 0

640

65009
374+48
666.0

Sta. 374+48
End 4' Bottom Special Ditch

1219 0

Sta. 374+24
End 601 Rock Channel Protection Type "B" 10'x10'x2'-0"

Sta. 374+19
Begin 4' Bottom Special Ditch
Begin 601 Rock Channel Protection
Type "B" 10'x10'x2'-0"

Sta. 374+17 M, 95' Rt.
604 Std. No 5 C.B.
R. Grate 646.00
Inv 18" 639.78

Main Line

Sta. 373+92.5 M, 159 Rt.
602 Std HW-E
Inv 18" 638.42

G.R.

2:1

LA R/W

337 0

6475 Top of Dike

Approx. Top of Rock

601 Rock Channel
Protection Type "B"
8'x4'x2'-0"

640

648.23
374+00
649.9

603 68'x18" Conduit Type B Cl. B Bedding @ 2.00%

444 507

CALC. R.R.R. DATE 6/28/68

CHK'D S.C.Z DATE 7/1/68

RAMP "T"
STA. 374+00 - STA. 375+00

80 60 40 20 ℄ 20 40 60 80 100

80 60 40 20 ℄ 20 40 60 80 100

333
638

CLERMONT COUNTY
CLE.-275-6.68

2019 0

660

Mainline

Approx. Top of Rock

6:1

8:1

4:1

LA R/W
320'

660.47
377+00
674.3

7382 0

650

Approx. Top of Rock

6.2:1

8:1

4:1

LA R/W

1967 0

656.35
376+00
673.8

2407 0

Mainline

650

Approx. Top of Rock

6:1

8:1

4:1

LA R/W

650.29
375+50
672.7

1633 0

1784 0

CALC. SCZ DATE 7/1/68

CHK'D PJR DATE 7/5/68

RAMP "T"
STA. 375+50 – STA. 377+00

80 60 40 20 ℄ 20 40 60 80 100

120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 372+30.50 – STA. 380+19.89		
Excavation	30,946	C.Y.
Embankment	5,583	C.Y.

CLERMONT COUNTY
CLE-275-6.68

334
638

660

Mainline
Center of Creek
18:1
12" Conduit
Approx. Top of Rock
Back Only
672.87
380+19.89 = 80+09.67
669.2

L.A. R/W 307'

284 155

819 638

660

Approx. Top of Rock
4:1
670.63
379+50
665.0

349 338

L.A. R/W 512'

1248 313

Sta. 379+27 End 4" Bottom Ditch

670

Approx. Top of Rock
8:1
6:1
668.71
379+00
673.1

999 0

L.A. R/W 513'

945 0

670

Approx. Top of Rock
5.2:1
8:1
4:1
667.80
378+77.83
674.7

1303 0

L.A. R/W 515'

4562 0

670

Mainline
Approx. Top of Rock
5.5:1
8:1
4:1
664.59
378+00
676.2

1862 0

DES. SCZ DATE 7/1/68
CHKD. RJR DATE 7/15/68

L.A. R/W 520'

7187 0

RAMP "T"
STA. 378+00 ~ STA. 380+00

120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

120 100 80 60 40 20 ℄ 20 40 60 80 100 120

335
638

℄ Ramp "U"

G.R.

CLERMONT COUNTY
CLE-275-6.68

680

3.1:1

Approx. Top of Rock

Sta. 84+77.56, Lt.
Begin Guard Rail

Back Only
686.79
84+79 = RAMP "U" STA. 384+76.44
686.0

STA. 80+09.67 - STA. 84+79	
Excavation	13,688 C.Y.
Embankment	6,060 C.Y.

LA R/W
495'

616 140

LA R/W
490'

1997 218

680

Approx. Top of Rock

3.3:1

684.58
84+00
685.5

Sta. 83+30, 25.22' Lt.
604, Std. No. 3 C.B.
ℓ Grate = 681.90
Inv. 12" = 678.60

Sta. 83+35, 35.78' Lt.
604, Std. No. 3 C.B.
ℓ Grate = 683.01
Inv. 12" = 679.70

Match Line C

LA R/W
493'

749 9

180 200

3189 880

680

Approx. Top of Rock

3.4:1

12" Conduit

681.58
83+00
683.5

973 466

Sta. 81+90, 25.22' Lt.
604, Std. No. 3 C.B.
ℓ Grate = 677.70
Inv. 12" = 674.40

Sta. 82+25, 35.78' Rt.
604, Std. No. 3 C.B.
ℓ Grate = 679.71
Inv. 12" = 676.40

Match Line B

LA R/W
497'

3463 2061

180 200

680

Approx. Top of Rock

3.5:1

678.58
82+00
680.5

Sta. 81+15, 35.78' Rt.
604, Std. No. 3 C.B.
ℓ Grate = 676.41
Inv. 12" = 673.10

897 647

Match Line B

Match Line A

LA R/W
503'

3307 2263

170 190

670

Approx. Top of Rock

3.5:1

12" Conduit

675.58
81+00
678.2

Sta. 80+50, 21.90' Lt.
604, Std. No. 3 C.B.
ℓ Grate = 673.56
Inv. 12" = 670.20

889 575

Match Line A

1194 540

LA R/W
505'

401 8

670

4.2:1

12" Conduit

674.08
80+50
674.2

Approx. Top of Rock

538 98

Mainline

670

4.5:1

Approx. Top of Rock

Ahead Only
672.87
80+09.67
669.2

12" Conduit

325 123

LA R/W
507'

CALC. SCT DATE 7/1/68

CHK'D PJP DATE 7/5/68

RIGHT
REST AREA
STA. 80+09.67 - STA. 84+79

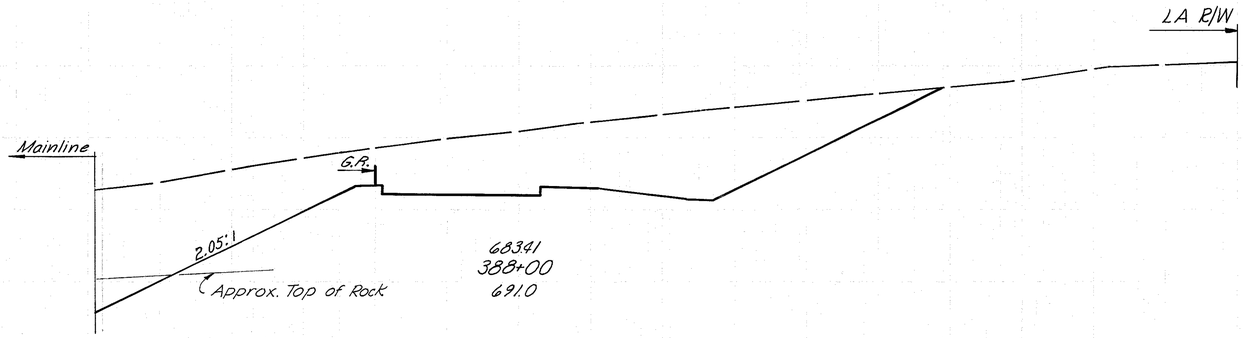
120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

120 100 80 60 40 20 ℄ 20 40 60 80 100 120

336
638

CLERMONT COUNTY
CLE-275-6.68

690



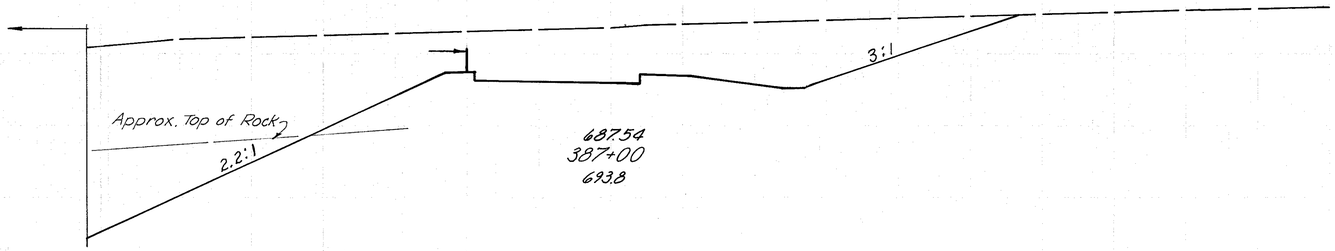
1029 0

4341 0

LA R/W
400'

1315

690

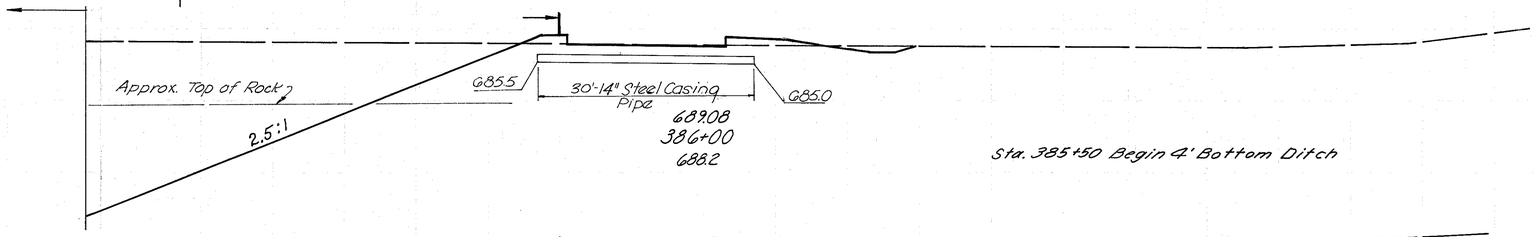


3806 26

LA R/W
517'

740 14

680



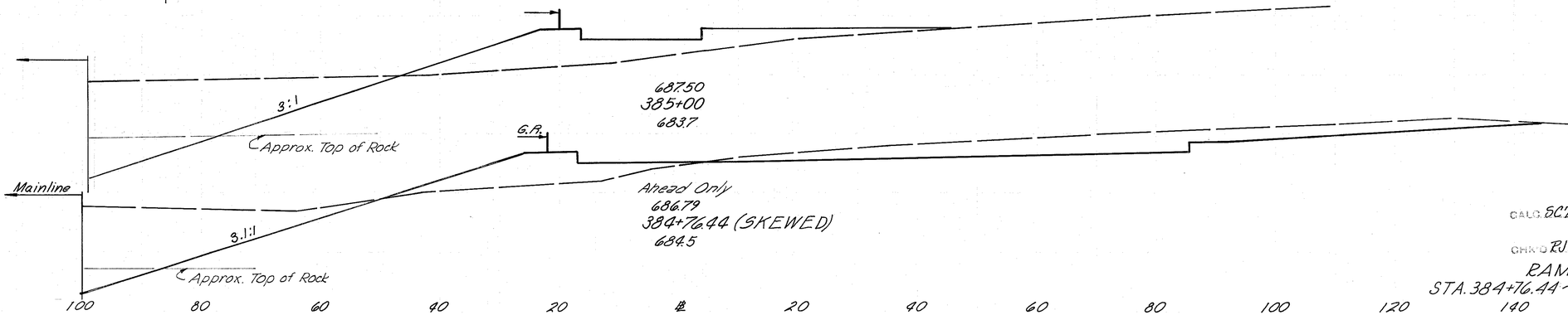
2167 493

Sta. 385+50 Begin 4' Bottom Ditch

LA R/W
500

430 252

680



LA R/W
495'

455 171

613 139

CALC. SCZ DATE 7/1/68
CHK'D RJR DATE 7/5/68

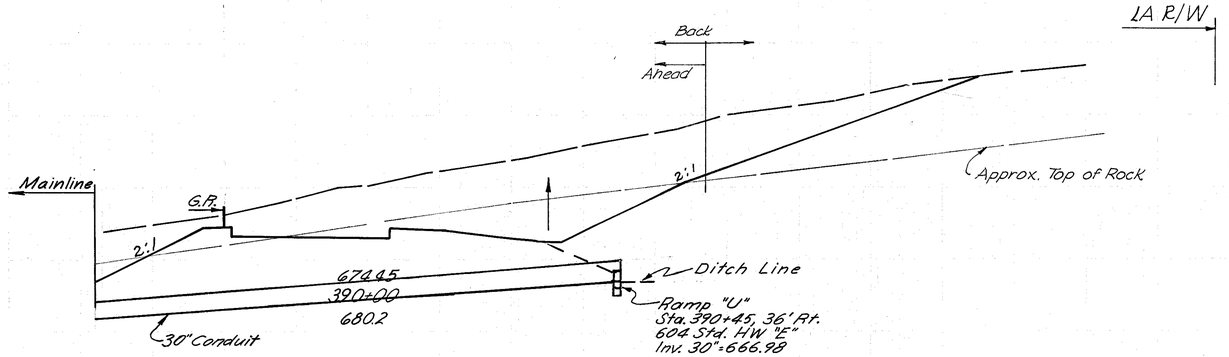
RAMP "U"
STA. 384+76.44 ~ STA. 388+00

120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

120 100 80 60 40 20 ℄ 20 40 60 80 100 120

337
638

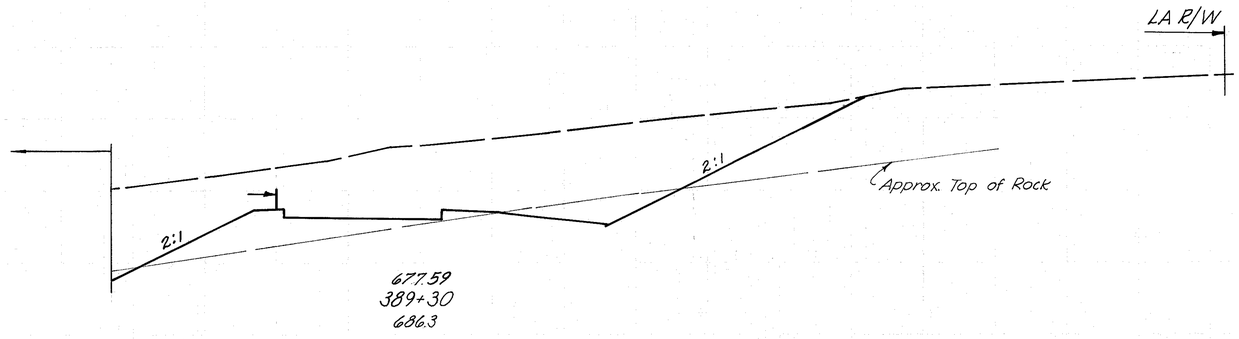
CLERMONT COUNTY
CLE.-275-6.68



680

Ahead 617 0
Back 765 0

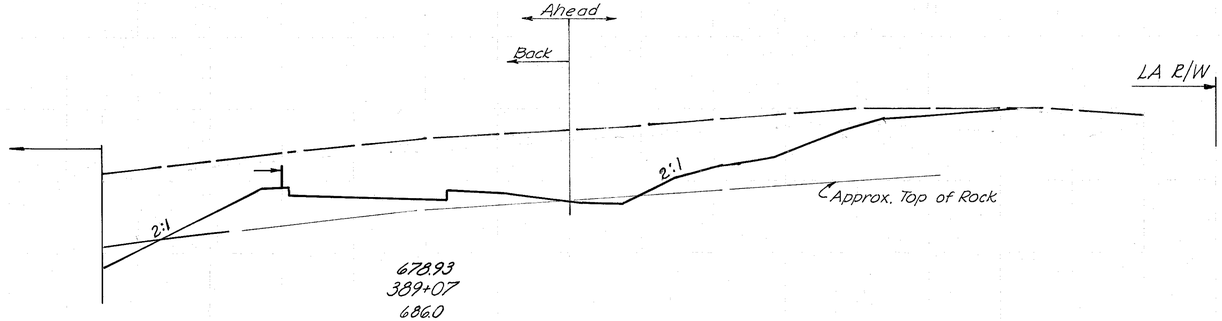
2153 0



680

896 0

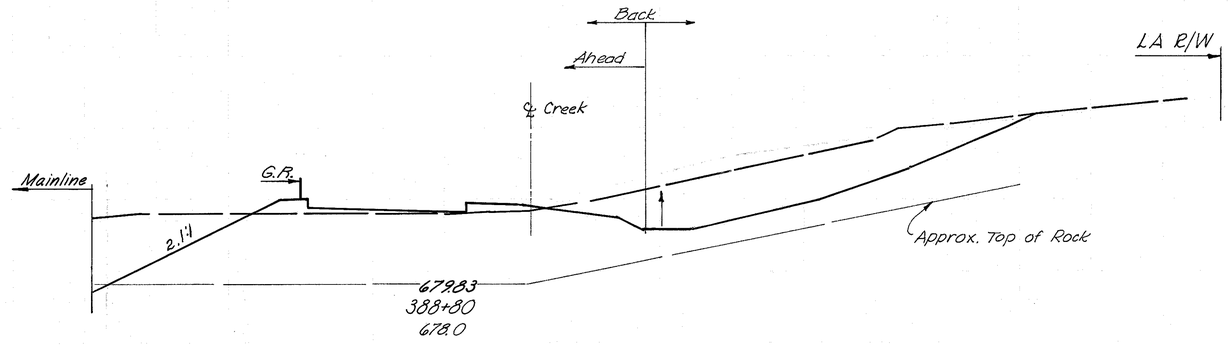
731 0



680

Ahead 821 0
Back 517 0

334 13



680

Ahead 150 26
Back 443 26

2088 39

CALC SCZ DATE 11/68
CHKD RJR DATE 11/5/68

RAMP "U"
STA. 388+80 ~ STA. 390+00

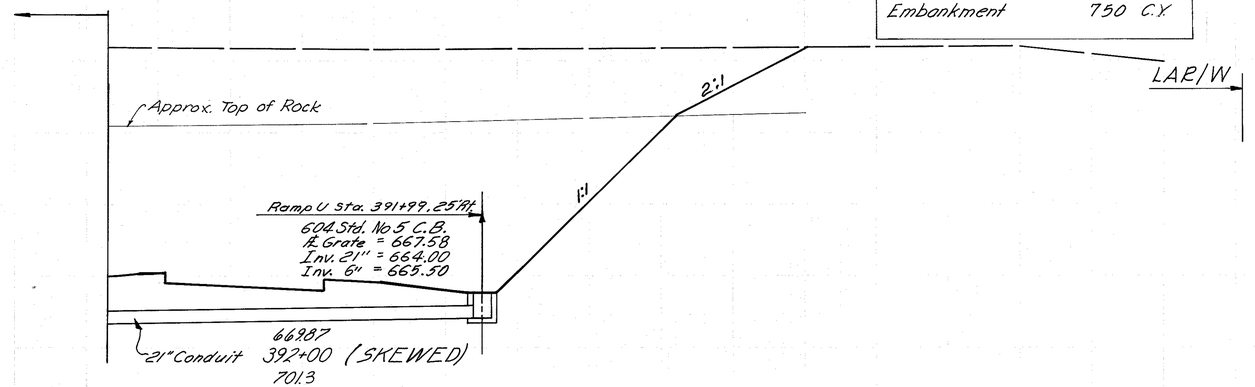
120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

120 100 80 60 40 20 ℄ 20 40 60 80 100 120

STA. 384+76.44 – STA. 392+00	
Excavation	24,670 C.Y.
Embankment	750 C.Y.

CLERMONT COUNTY
CLE.-275-6.68

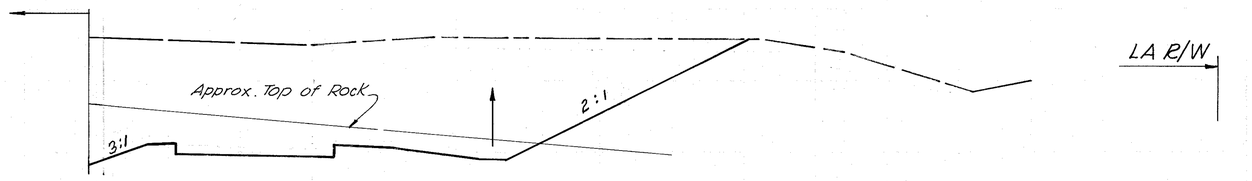
338
638



670 670 670 670

2409 0
3976 0
1885 0
2856 0
1197 0
1150 4
45 4
613 4

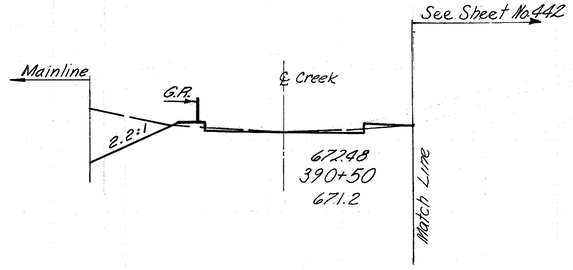
670.20
391+50
694.6



Sta. 390+86
End Curb

Sta. 390+87.5 Lt.
End Guard Rail

671.07
391+00
685.3



LA R/W

CALC. SCZ DATE 7/1/68
CHK'D PJP DATE 7/5/68

RAMP "U"
STA. 390+50 – STA. 392+00

120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

200 180 160 140 120 100 80 60 40 20 ℄ 20 40 60

339
638

CLERMONT COUNTY
CLE.-275-6.68

1672 0

Main Line

LA R/W

4:1

Approx. Top of Rock

8:1

8:1

660

660.39
381+50
672.0

12" Conduit

966 0

1679 0

LA R/W

4:1

Approx. Top of Rock

660

659.26
381+00
670.8

12" Conduit

897 0

1729 0

Sta. 380+50, 23.5' Rt.
604 Std. No. 2-2-B C.B.
Rt. Grate = 657.12
Inv. 12" = 654.76

LA R/W

3:1

Approx. Top of Rock

1020 0

660

658.31
380+50
672.2

1981 0

Mainline

LA R/W

2:1

Approx. Top of Rock

8:1

1119 0

660

657.54
380+00 (SKEWED)
672.8

CALC. SCZ DATE 7/1/68

CHK'D RJR DATE 7/15/68

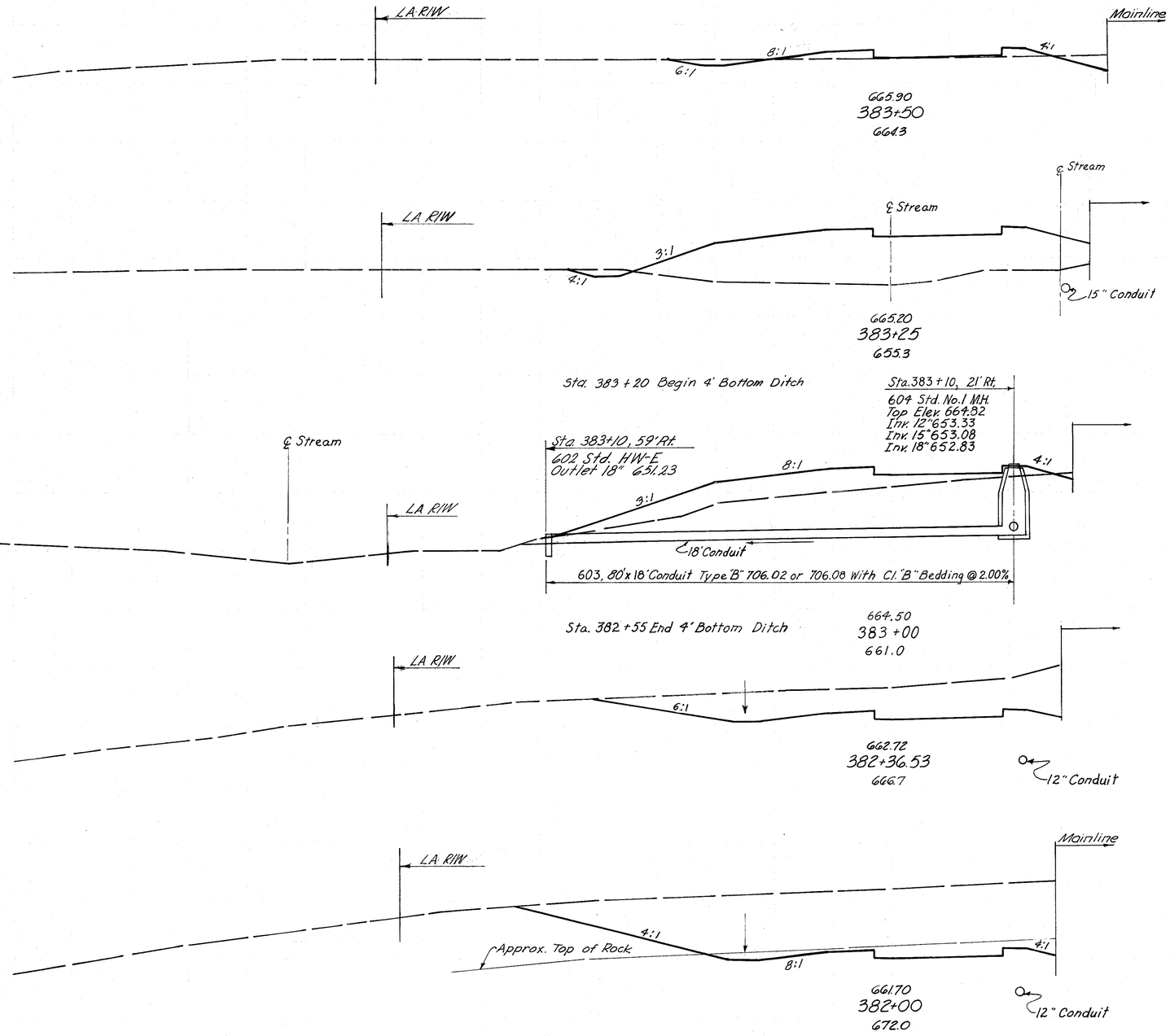
RAMP "V"
STA. 380+00 – STA. 381+50

200 180 160 140 120 100 80 60 40 20 ℄ 20 40 60 80

200 180 160 140 120 100 80 60 40 20 ℄ 20 40 60

340
638

CLERMONT COUNTY
CLE.-275-GGB



660 660 660 660

18 22
16 251
7 533
4 846
1 214
415 250
355 0
819 0
840 0

SCZ DATE 7/4/68
RJR DATE 7/5/68

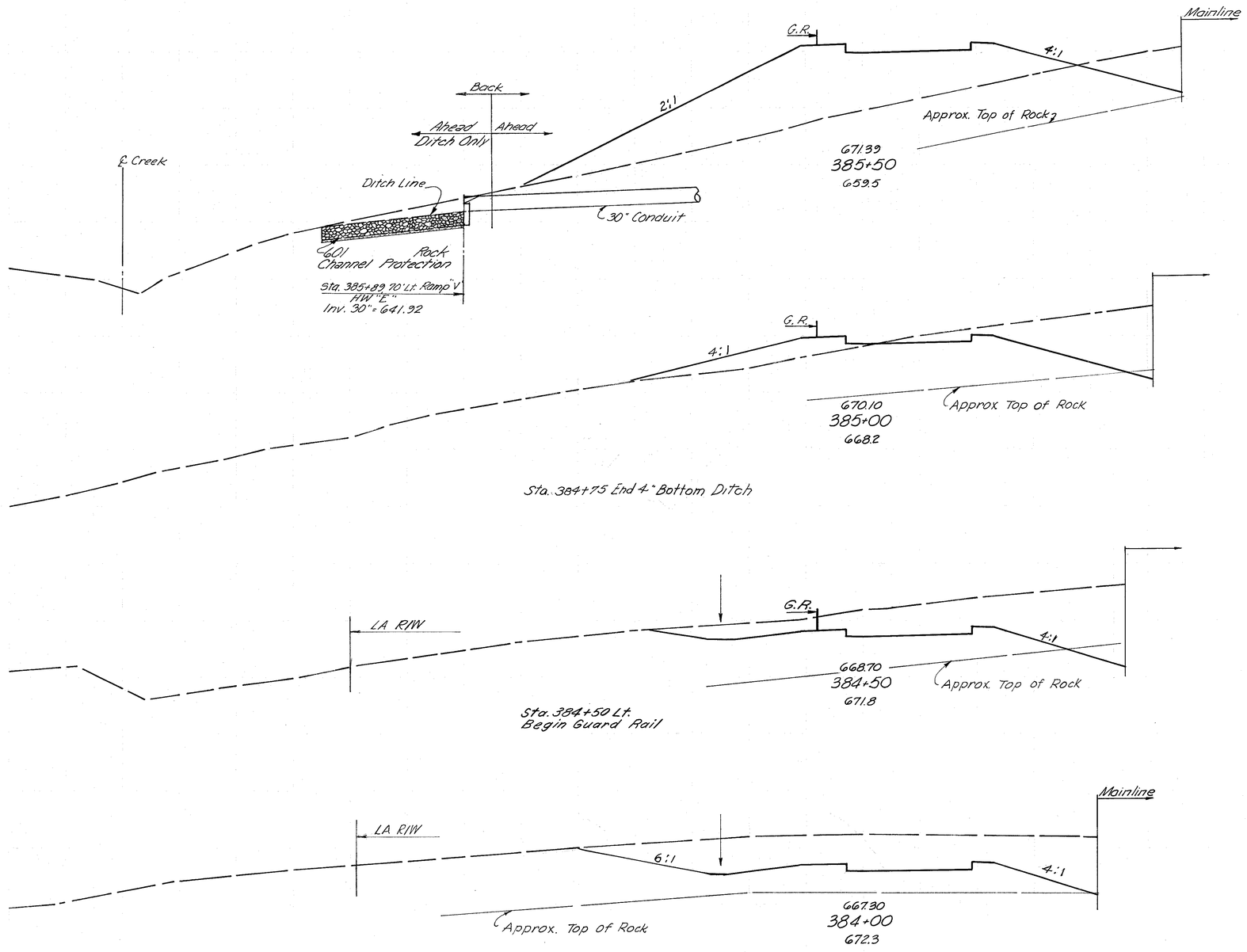
RAMP "V"
STA. 382+00 – STA. 383+50

200 180 160 140 120 100 80 60 40 20 ℄ 20 40 60 80

200 180 160 140 120 100 80 60 40 20 ℄ 20 40 60

341
638

CLERMONT COUNTY
CLE-275-6.68



Ahead 7.5 7.43
Back 7.5 7.43

281 7.91

227 90

619 89

441 0

880 0

509 0

488 20

CALC. SC2 DATE 7/11/68
CHK'D PJP DATE 7/16/68

RAMP "V"
STA. 384+00 – STA. 385+50

200 180 160 140 120 100 80 60 40 20 ℄ 20 40 60

342
638

LA R/W
522'

660

240 220 200

Ramp "V" Sta. 387+32, 15.22 Rt.
604 Std. No. 3 C. B.
I.E. Grate = 673.81
Inv. 12" = 670.51

℄ Rest Area

CLERMONT COUNTY
CLE.-275- 6.68

12" Conduit

Mainline

5 872

660

674.31
387+41.14 (SKEWED)
667.0

STA. 380+00 - STA. 387+41.14

Excavation	10,718	C.Y.
Embankment	12,642	C.Y.

Sta. 387+04, 38' Lt.
HW-E
Inv. 12" = 667.99

LA R/W
530'

660

280 260 240 220 200 650

14 2198

2:1

4:1

660

Sta. 386+87.5 Lt.
End Guard Rail

675.14
386+95.97
659.5

℄ Creek

30" Conduit

12 1756

18 3055

LA R/W
537'

660

650

260 240 220 200

G.R.

3:1

660

2:1 2:1

℄ Creek

30" Conduit

673.29
386+50
646.5

9 1885

24 3345

LA R/W
542'

660

G.R.

Mainline

Ahead

Back Back
Ditch Only

2:1

GG8.7

GG9.2

30'-14" Steel Casing Pipe

℄ Creek

672.45
386+00
650.0

Ahead 17 1778
Back 10 1966

79 2323

CALC. S.C.Z. DATE 7/1/68

CHKD. R.J.P. DATE 7/5/68

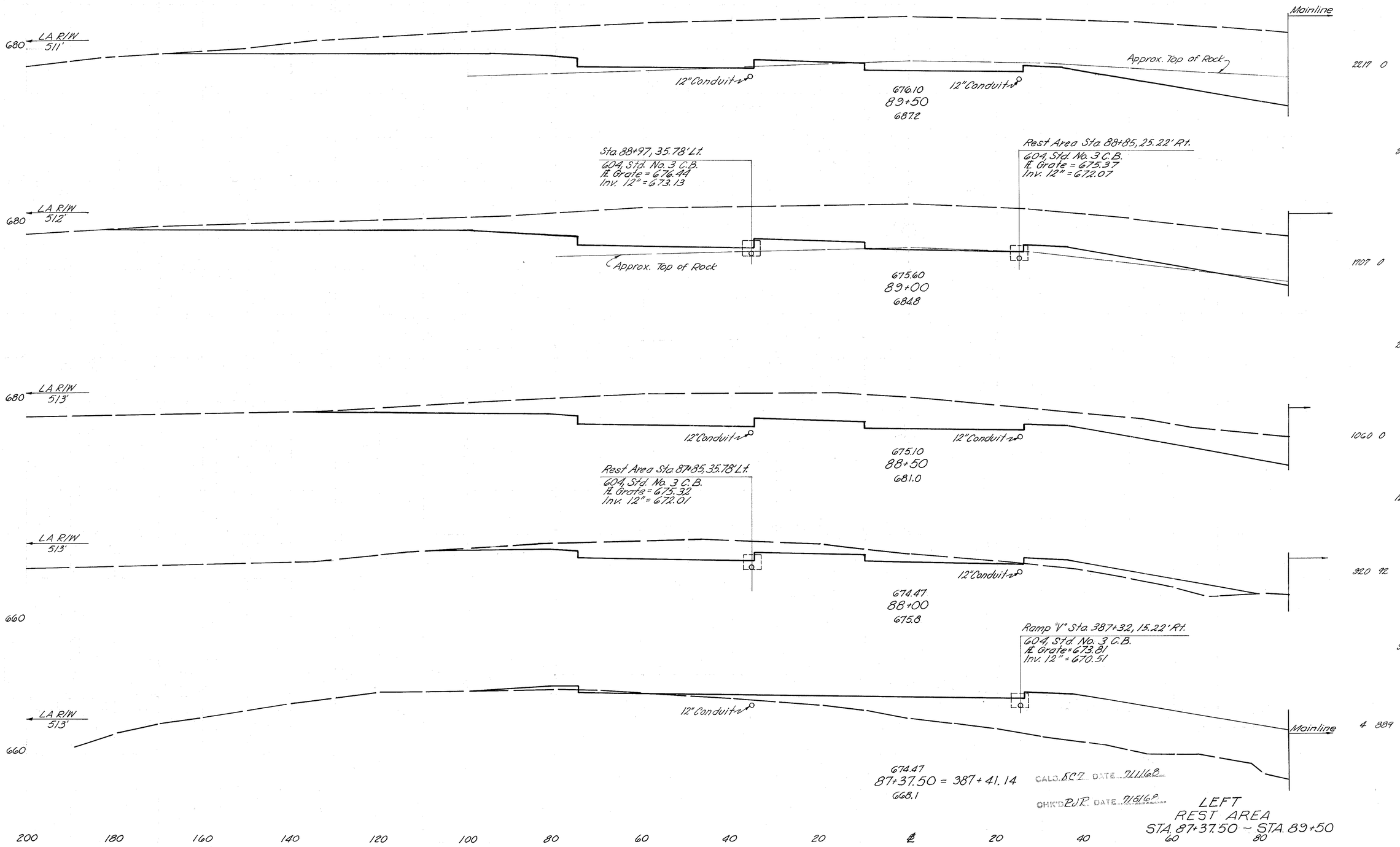
RAMP "V"
STA. 386+00 - STA. 387+41.14

200 180 160 140 120 100 80 60 40 20 ℄ 20 40 60 80

200 180 160 140 120 100 80 60 40 20 ℄ 20 40 60

343
638

CLERMONT COUNTY
CLE.-275-6.68



CALC. SCZ DATE 7/11/68

CHK'D RJR DATE 7/16/68

LEFT
REST AREA
STA. 87+37.50 – STA. 89+50

200 180 160 140 120 100 80 60 40 20 ℄ 20 40 60 80

200 180 160 140 120 100 80 60 40 20 ℄ 20 40 60

Mainline

690

Match Line, Rt. Side

60 80

LA R/W 510'

680

℄ Creek

Approx. Top of Rock

Match Line

CLERMONT COUNTY
CLE.-275-6.68

344
638

STA. 87+37.50 – STA. 92+06.83

Excavation	29,081	C.Y.
Embankment	1,229	C.Y.

679.16
92+06.83 = 391+97.57 RAMP "W"
686.0

1484 0

3639 0

1974 0

5.7:1

678.10
91+50
688.0

4004 0

2350 0

677.60
91+00
690.0

4963 0

Sta. 90+25, 25.22' Rt.
604, Std. No. 3 C.B.
℄ Grate = 676.77
Inv. 12" = 673.47

Sta 90+09, 35.78' Lt.
604, Std. No. 3 C.B.
℄ Grate = 677.56
Inv. 12" = 674.25

2591 0

677.10
90+50
691.0

4735 0

Mainline

Approx. Top of Rock

12" Conduit

12" Conduit

5.7:1

676.60
90+00
689.6

2523 0

4389 0

CALC. S.C.Z. DATE 7/11/68

CHK. R.J.R. DATE 7/15/68

LEFT
REST AREA
STA. 90+00 – STA. 92+06.83

200 180 160 140 120 100 80 60 40 20 ℄ 20 40 60 80

200 180 160 140 120 100 80 60 40 20 ℄ 20 40 60

345
638

CLERMONT COUNTY
CLE.-275- 6.68

Mainline

LA R/W
270'

680

Approx. Top of Rock

3:1

8:1

6:1

679.19
393+31.30
693.0

2130 O

2131 O

LA R/W
377'

680

Approx. Top of Rock

2:1

6:1

679.43
393+00
692.3

2096 O

2034 O

LA R/W
512

680

Approx. Top of Rock

2:1

6:1

679.50
392+50
690.2

2085 O

3420 O

Mainline

680

LA R/W
510

Approx. Top of Rock

3:1

8:1

6:1

679.16
391+97.57 = 92+06.83 REST AREA
688.8

1478 O

CALC. SCZ DATE 7/11/68

CHK'D RJP DATE 7/15/68

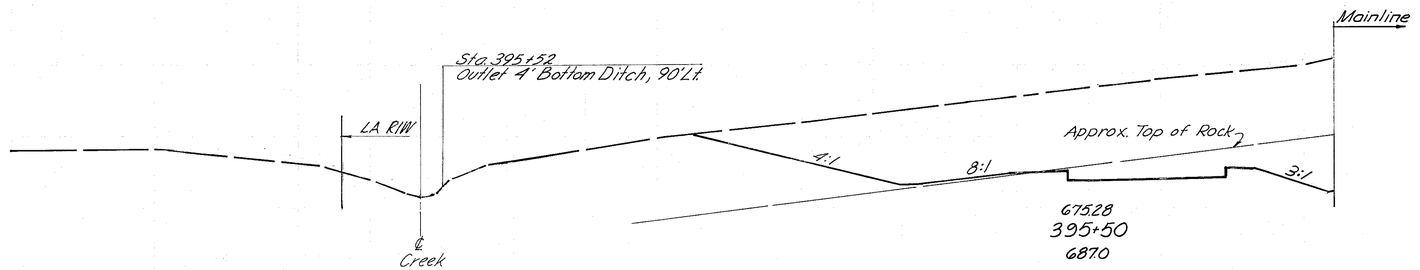
RAMP "W"
STA 391+97.57 – STA 393+31.30

200 180 160 140 120 100 80 60 40 20 ℄ 20 40 60 80

200 180 160 140 120 100 80 60 40 20 ℄ 20 40 60

346
638

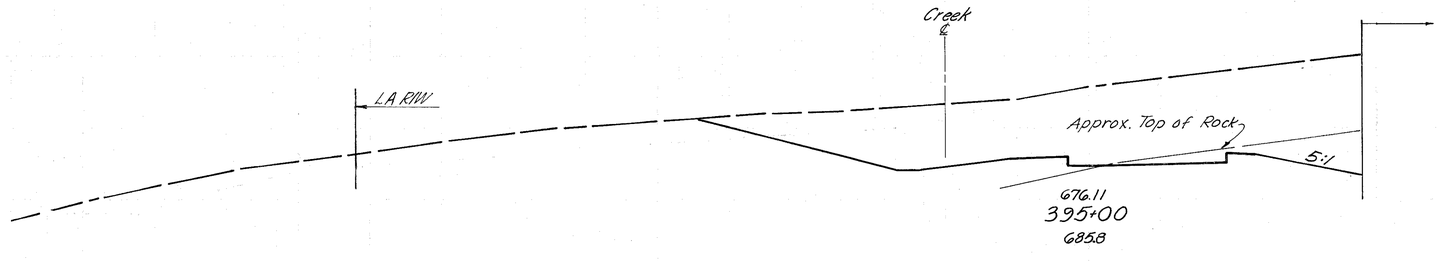
CLERMONT COUNTY
CLE.-275-6.68



946 0

680

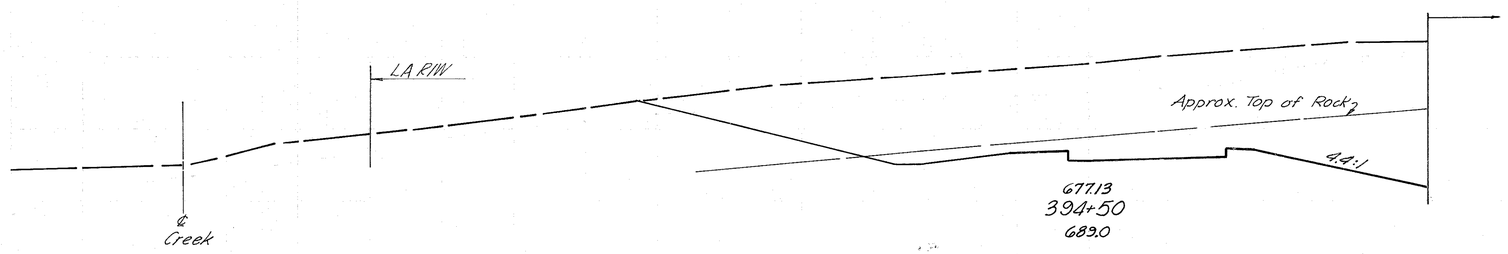
1661 0



348 0

680

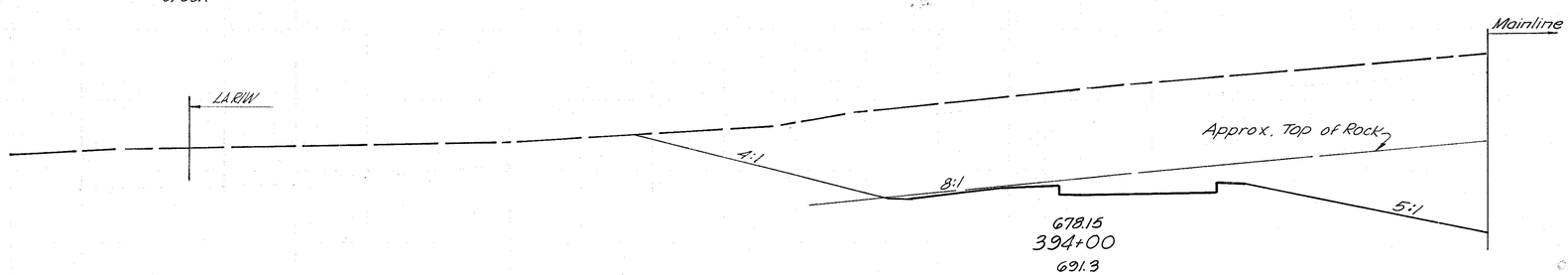
1969 0



1279 0

2618 0

680



1613 0

CALC. SCZ DATE 7/1/68

CHK'D R.D.R. DATE 7/5/68

4762 0

RAMP "W"
STA. 394+00 – STA. 395+50

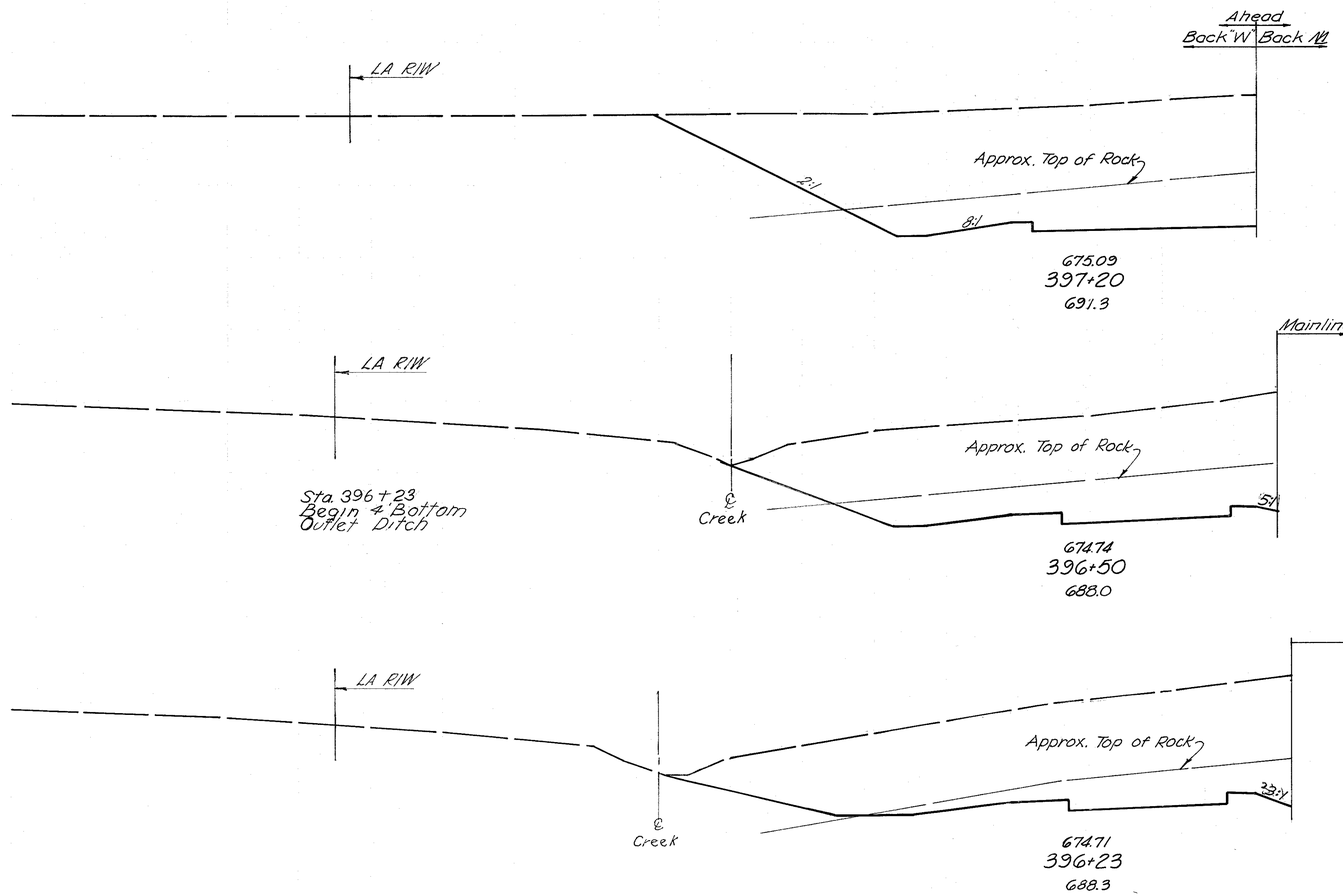
200 180 160 140 120 100 80 60 40 20 ℄ 20 40 60 80

STA. 391+97.57 - STA. 397+20		
203 Excavation	27,307	C.Y.
203 Embankment	0	C.Y.

CLERMONT COUNTY
CLE.-275-6.68

347
638

200 180 160 140 120 100 80 60 40 20 ℄ 20 40 60



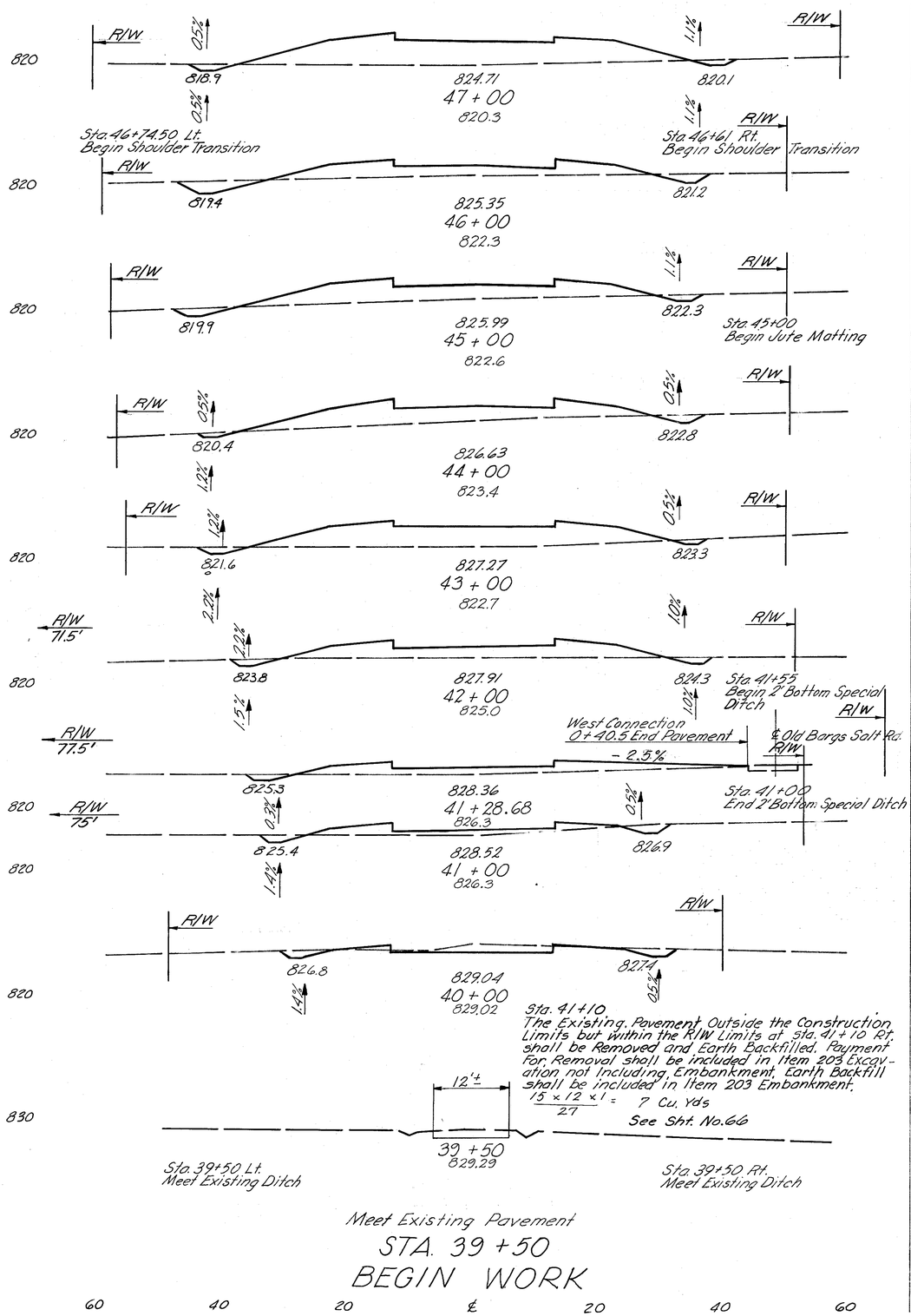
680
680
680
680

1156 0
2710 0
935 0
981 0
1027 0
925 0
1145 0
1936 0

CALC. SCZ. DATE 7/11/68
CHK'D RJR DATE 7/15/68

RAMP "W"
STA. 396+00 – STA. 397+20

200 180 160 140 120 100 80 60 40 20 ℄ 20 40 60 80



End Area		Volume	
Cut	Fill	Cut	Fill
10	230		
		70	631
28	111		
		74	469
12	142		
		37	520
8	139		
		28	609
7	190		
		30	565
9	115		
		18	251
5	75		
		8	64
11	46		
		81	93
33	4		
		42	4
12	0	7	7

348
638

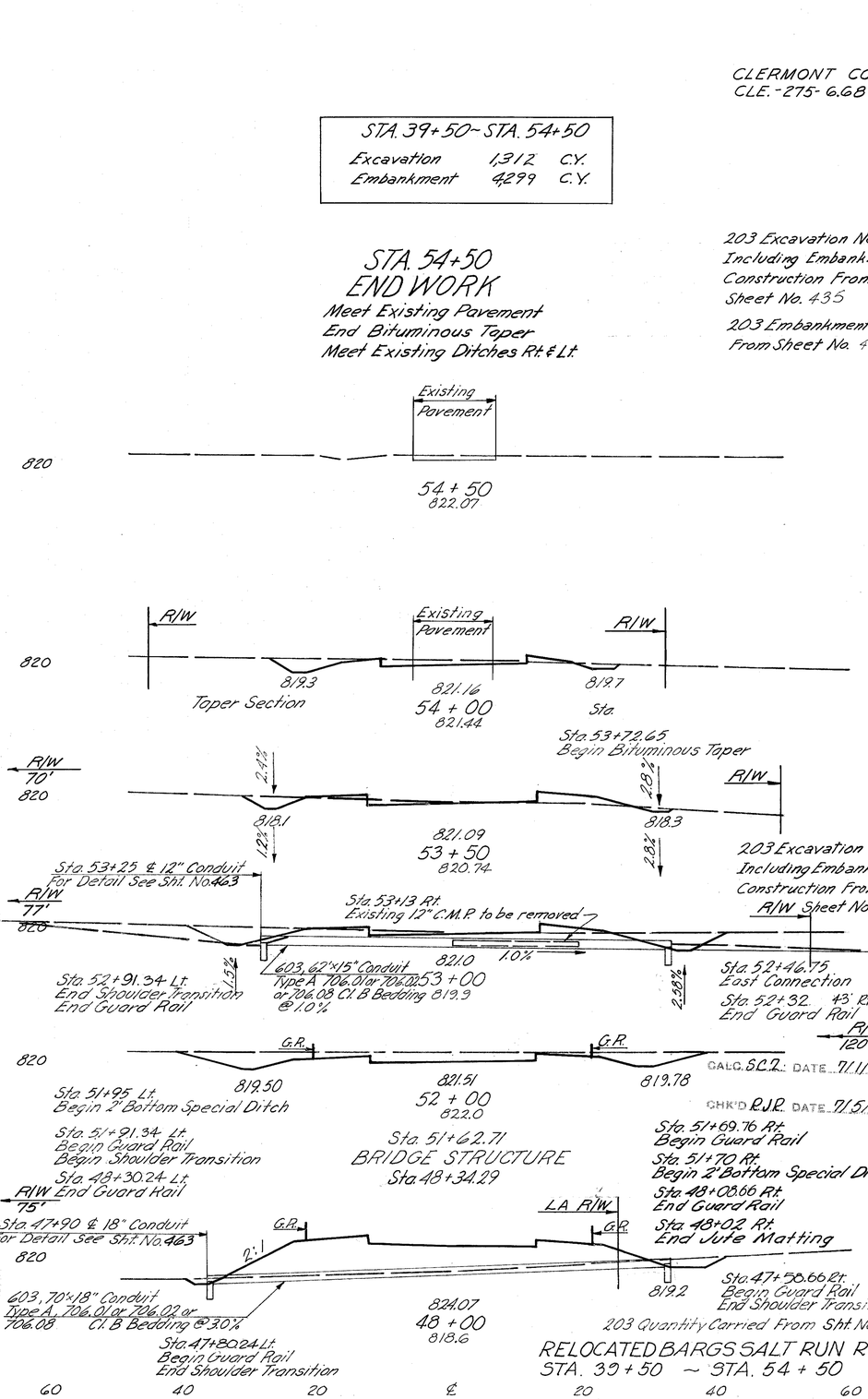
CLERMONT COUNTY
CLE.-275-6.68

STA. 39+50 ~ STA. 54+50		
Excavation	1,312	C.Y.
Embankment	4299	C.Y.

203 Excavation Not Including Embankment 273
Construction From Sheet No. 435

203 Embankment From Sheet No. 435 12

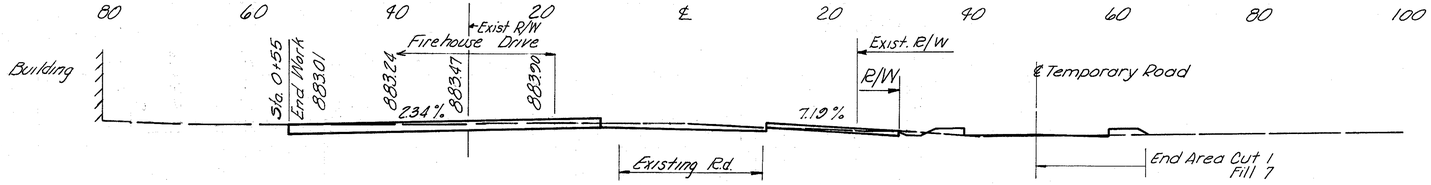
STA. 54+50
END WORK
Meet Existing Pavement
End Bituminous Taper
Meet Existing Ditches Rt. & Lt.



43 3
46 31
14 31
82 39
15
75 11
328 20
102 0
70 0
0 0
10 142
16 223
48 839
2

CALC. S.C.Z. DATE 7/1/68
CHK'D R.J.R. DATE 7/5/68

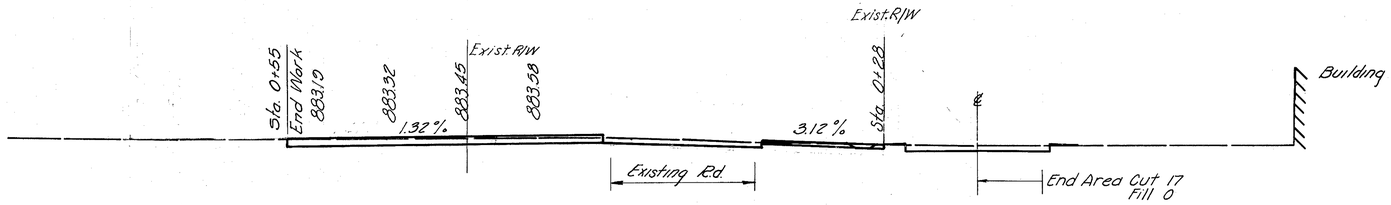
140 120 100 80 60 40 20 ℄ 20 40 60 80 100



870

Sta. 46+30 Rt. Driveway

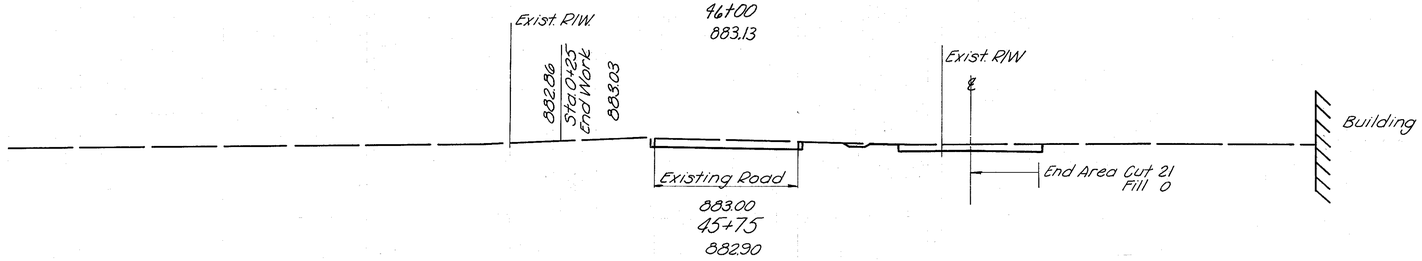
883.93
46+25
883.21



870

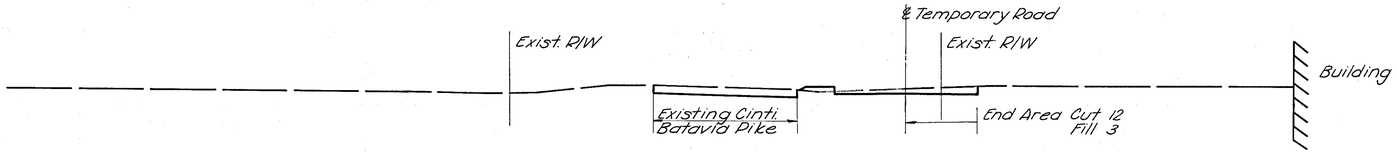
Sta. 46+00 Rt. & Lt.
End Shoulder Transition

883.46
46+00
883.13



870

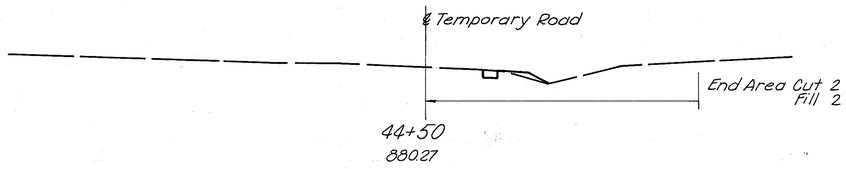
883.00
45+75
882.90



870

882.53
45+50
882.53

STA. 45+50 BEGIN WORK
Begin Bituminous Taper
Meet Existing Pavement
Begin 80' Driveway Taper Lt.



44+50
880.27

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

349
638

CLERMONT COUNTY
CLE.~275~6.68

41 0

Firehouse Driveway
203 Excavation Not
Including Embankment
Construction
$\frac{6.5 \times 25 \times 1}{27}$ = 61 Cu. Yds. 61

38 0

42 0

31 0

25 0

25 0

30 0

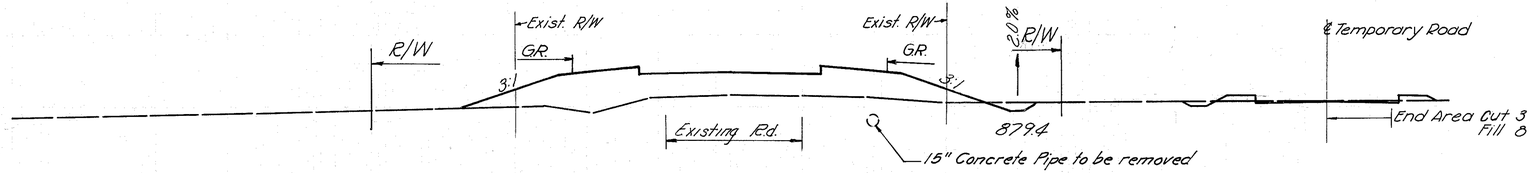
CALC. SCZ DATE 7/4/68

CHK'D RJR DATE 7/5/68

CINTI BATAVIA PIKE
STA. 45+50-STA. 46+25

120 140

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

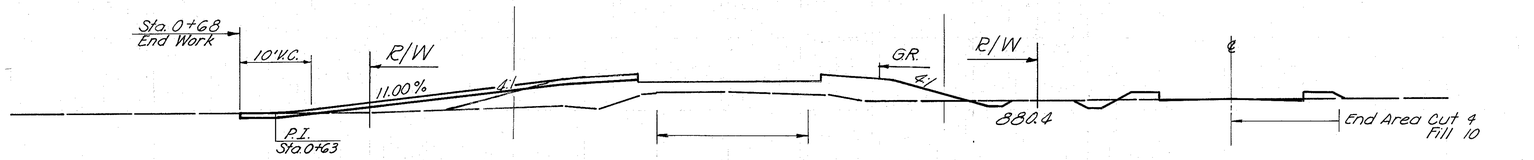


870

885.74
47+50
881.70

Sta. 47+29.70 Lt.
Begin Guard Rail
End Shoulder Transition

Sta. 47+15.96 Rt.
Begin Guard Rail
End Shoulder Transition



870

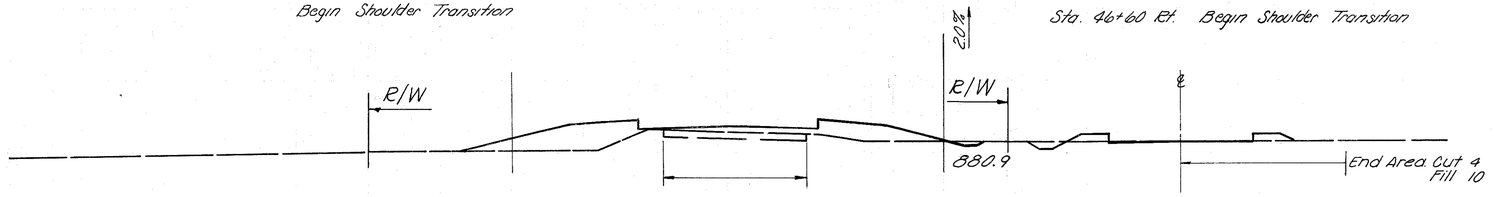
$$\frac{\left(\frac{29+33}{2}\times 9\times .5\right)+\left(\frac{20+28}{2}\times 36\times 1\right)}{27} = 37 \text{ Cu. Yds.}$$

$$\frac{972\times .67}{27} = \frac{27 \text{ Cu. Yds.}}{10 \text{ Cu. Yds.}}$$

885.14
47+00
882.65

Sta. 46+75 Lt.
Begin Shoulder Transition

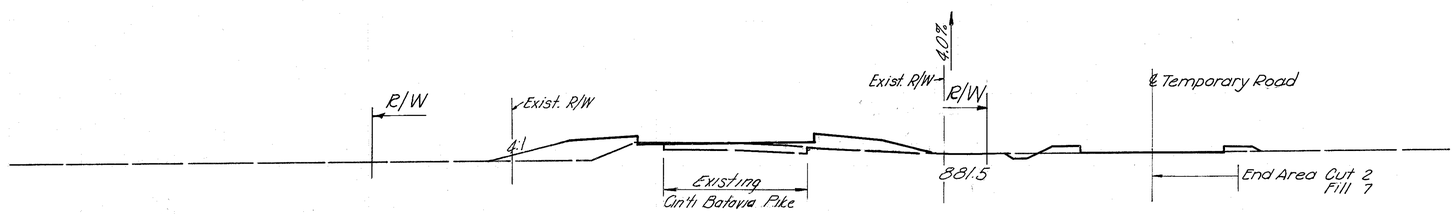
Sta. 46+60 Rt. Begin Shoulder Transition



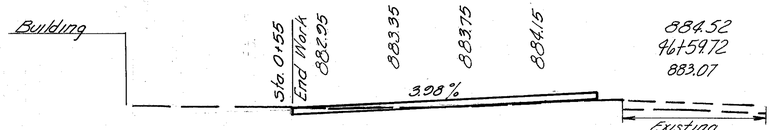
870

884.78
46+75
882.97

Sta. 46+70
Begin 2' Bottom Special Ditch



870



140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

CLERMONT COUNTY
CLE.-275-6.68

CALC. SCZ DATE 7/1/68
CHK'D RJR DATE 7/5/68

CIN'TI BATAVIA PIKE
STA. 46+59.72 - STA. 47+50

350	638	
5	235	
8	370	
4	165	
Drive Sta. 47+00		10
3	133	
2	123	
1	61	
0	92	
26	59	

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

860

Exist. R/W
G.R.
0.7'
2:1
R/W
2%
Sta. 52+48.72, 64.01' Lt.
Culvert Inlet
Inv. Elev. 865.6
0.8'
0.3'
Existing
Existing 15" V.C.P.
6.6%
R/W
2%
863.0
Temp. Road
End Area Cut 2
Fill 22

882.84
52+50
868.43

G. R.
G.R.
R/W
0.8%
2:1
2%
866.0
2:1
3.0%
R/W
865.5
End Area Cut 4
Fill 28

Sta. 51+92.04 Lt.
Begin Guard Rail
Sta. 51+80 Lt.
Begin 2' Bottom
Special Ditch

883.86
52+00
868.65
Sta. 51+67.68
END BRIDGE STRUCTURE

Sta. 51+78.30
Begin Guard Rail

880

Mainline
2:1 skewed
R/W
3.0%
2%
867.0
End Area Cut 4
Fill 11

884.72
51+50 (Ahead Only)
869.28

Sta. 51+20 Rt.
Begin 2' Bottom Special Ditch

Mainline
R/W
2:1
886.96
48+50 (Back Only)
878.85
Sta. 48+40.32
End Area Cut 1
Fill 7

870

Sta. 48+29.70 Lt.
End Guard Rail

BEGIN BRIDGE STRUCTURE

Sta. 48+15.96
End Guard Rail

Exist. R/W
G.R.
R/W
2:1
Existing
Cin'ti Batavia Pike
Exist. R/W
G.R.
2:1
2.0'
878.4
R/W
Temporary Road
End Area Cut 2
Fill 9

886.18
48+00
880.56

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

CLERMONT COUNTY
CLE.-275-6.68

351
638

8 1180

14 2227

7 1225

9 1574

3 475

43 58

44 382

4 355

8 548

CALC. BCZ DATE 7/11/68

CHK'D RJR DATE 7/15/68

CIN'TI BATAVIA PIKE
STA. 48+00 - STA. 52+50

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

352
638

Sta. 54+67.04 Lt
End Guard Rail
Begin Shoulder Transition

Sta. 54+75
End 2' Bottom Special Ditch

CLERMONT COUNTY
CLE.-275-6.68

R/W GR. GR. R/W ℄ Temporary Road

0.7% 2:1 2:1 2:1 0.8% 2%

867.0 Existing Cin'ti Batavia Pike 864.6

End Area Cut 23
Fill 1

860

877.12
54+50
868.23

8 605

15 1213

R/W GR. GR. R/W ℄

2:1 2:1 0.8% 2%

866.65 865.0

End Area Cut 56
Fill 0

860

0.7%

878.79
54+00
868.94

8 705

15 1471

GR. GR.

R/W R/W

866.30 864.0

0.7% 7.0%

880.30
53+50
868.50

End Area Cut 3
Fill 71

8 884

19 1818

Existing R/W Exist. R/W

GR. GR.

R/W R/W ℄ Temporary Road

2:1 2:1 2:1 2:1

865.95 860.5

Existing Cin'ti Batavia Pike

End Area Cut 1
Fill 66

Sta. 7+40
Temporary Culvert

Sta. 7+50 Temporary Road
End 2' Bottom Special Ditch

CALC. SCZ DATE 7/11/68
CHK'D RJR DATE 7/15/68

12 1080

19 2093

860

0.7% 0.8%

861.65
53+00
868.54

Sta. 52+60
15" CMP Culvert 10' RF Stew

Sta. 52+71.28 Rt.
Culvert Outlet
Inv. 861.6

0.5% 66%

203 Excavation Not Including Embankment Construction From Sht. No. 40.3

3

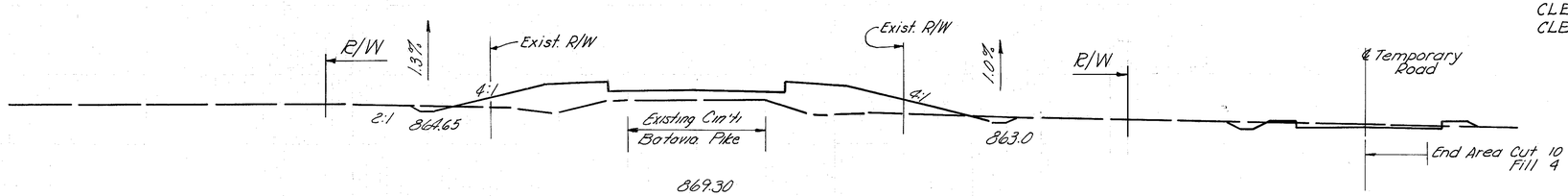
CINTI BATAVIA PIKE
STA. 53+00 - STA. 54+50

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

353
638

CLERMONT COUNTY
CLE. ~ 275 ~ 6.68

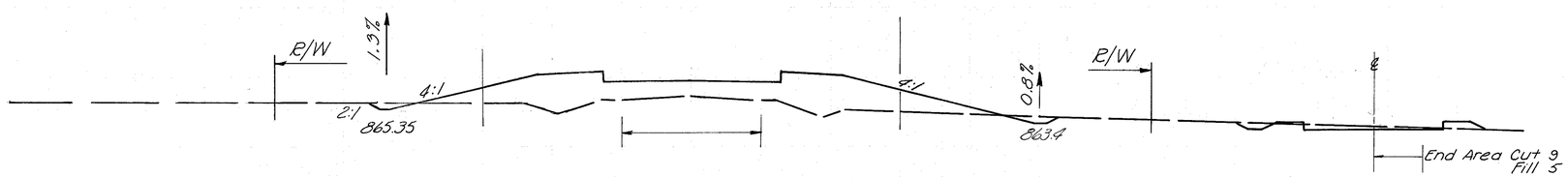


860

869.30
56+50
866.46

9 185

16 417



860

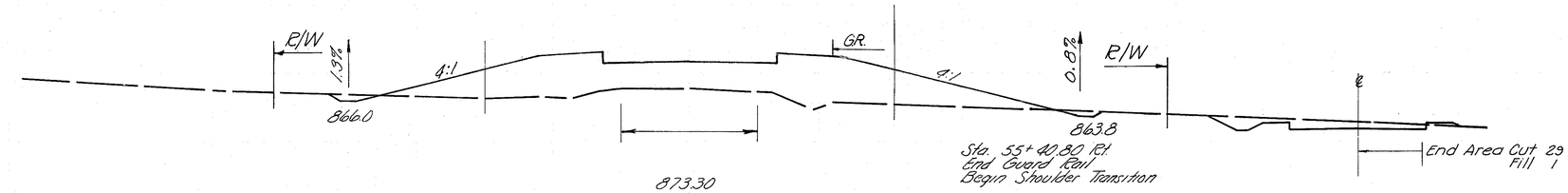
871.30
56+00
867.03

Sta. 55+97.5 Lt.
End Shoulder Transition

Sta. 55+90.80 Rt.
End Shoulder Transition

8 265

16 644

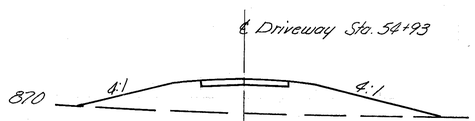


860

873.30
55+50
867.60

Sta. 55+40.80 Rt.
End Guard Rail
Begin Shoulder Transition

9 430



870

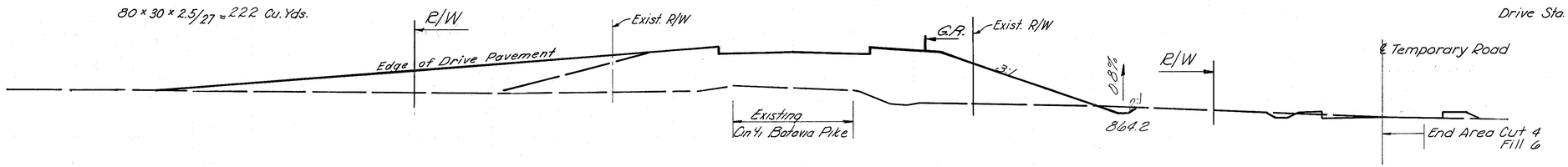
TYPICAL SECTION A-A

80 × 30 × 2.5/27 = 222 Cu. Yds.

Sta. 55+28 Lt.
Begin 2' Bottom Special Ditch

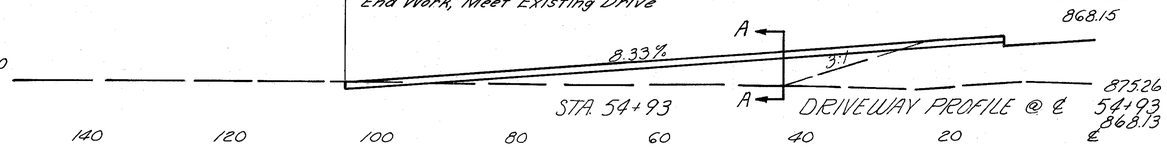
12 856

Drive Sta. 54+93 Lt. 222



860

4 495



870

875.28
55+00
868.15

875.26
54+93
868.13

11 1018

CALC. S.C.Z. DATE 7/1/68

CHK'D R.J.R. DATE 7/5/68

CIN'TI BATAVIA PIKE
STA. 55+00 ~ STA. 56+50

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

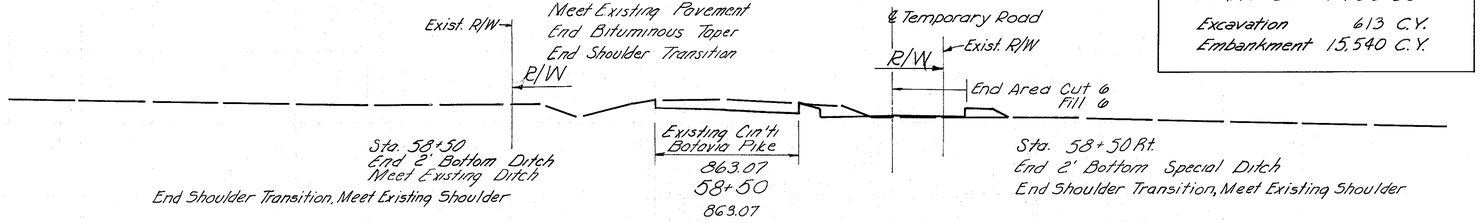
140 120 100 80 60 40 20 ℄ 20 40 60 80 100

354
638

CLERMONT COUNTY
CLE. ~275~6.68

STA 58+50 END WORK
Meet Existing Pavement
End Bituminous Taper
End Shoulder Transition

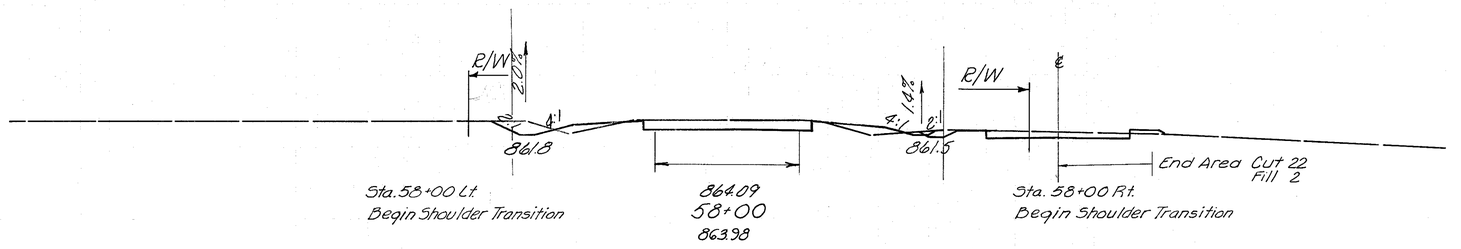
STA. 45+50 - STA. 58+50	
Excavation	613 C.Y.
Embankment	15,540 C.Y.



860

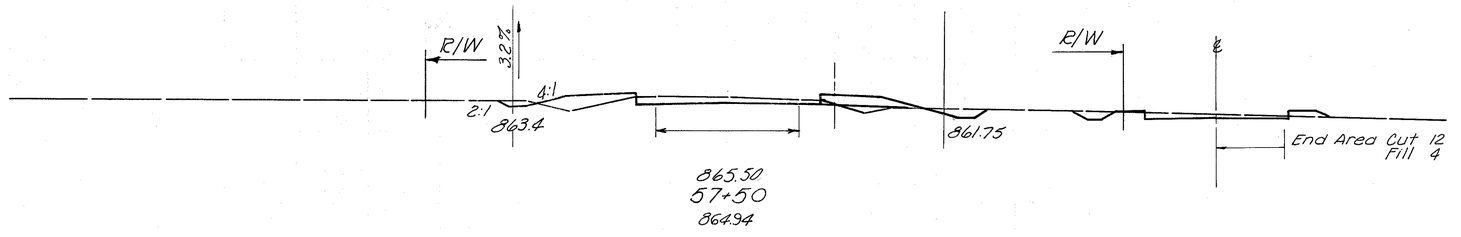
30 0

74 14



860

50 15

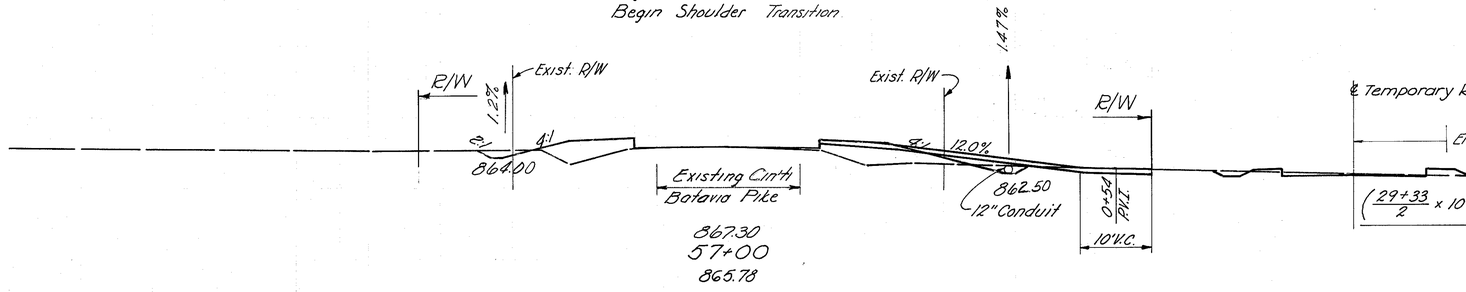


860

36 43

Sta. 57+50
Begin Bituminous Taper
Begin Shoulder Transition

42 112



860

9 78

$\left(\frac{29+33}{2} \times 10 \times .5\right) + \left(\frac{20+28}{2} \times 27 \times 1\right) = 30$ Cu. Yds.

27

$\frac{964 \times .67}{27} = -24$ Cu. Yds.

CALC. S.C.T. DATE 7/11/68 6 Cu. Yds.

6

CHK'D R.V.P. DATE 7/15/68

17 244

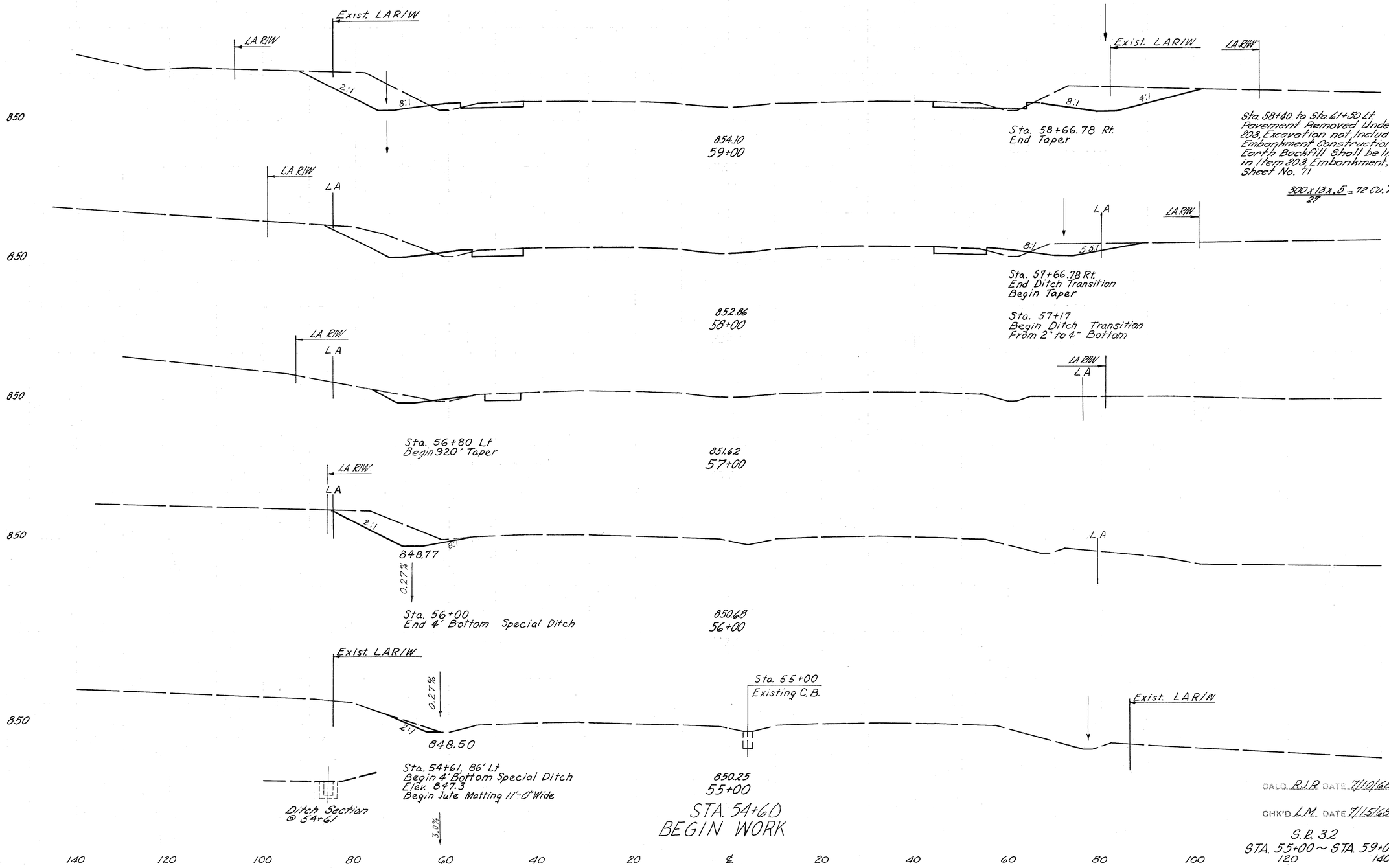
CIN'TI BATAVIA PIKE
STA. 57+00 - STA. 58+50

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

355
638

CLERMONT COUNTY
CLE~275~6.68



253 9
707 37
72 72
129 11
274 24
19 2
181 4
79 0
155 0
5 0
4 0
0 0

CALC. RJR DATE 7/10/68
CHK'D L.M. DATE 7/15/68

S.R. 32
STA. 55+00 ~ STA. 59+00

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

356
638

Sta. 63+62 Lt., End 601 Rock Channel Protection Type B 21'-6"x2'-0"
Sta. 63+56 Lt. Begin 601 Rock Channel Protection Type B 21'-6"x2'-0"

Exist. LA R/W

3:1

8:1

For Continuation of Ditch see Sheet No.

857.70

Sta. 63+00
End 667 Jute Matting 11'-0" Wide

CLERMONT COUNTY
CLE-275-6.68

℄ Ramp "J"

Existing LAR/W

LA R/W

8:1

6:1

Existing 18" Conduit

150 15

850

859.68
63+50

310 21

LA R/W

Building

LA

2:1

℄ Ramp "J"

LA

LA R/W

Dike Top Elev. 858.0

8:1

4:1

Plug

Sta. 63+16 Rt.
Remove 32' Exist. 18" Conduit

185 8

850

859.06
63+00

752 43

LA R/W

LA

LA

LA R/W

4:1

860

850

221 15

857.82
62+00

757 48

LA R/W

LA

LA

LA R/W

860

850

188 11

856.58
61+00

793 31

LA R/W

Exist. LAR/W

2:1

8:1

Exist. LAR/W

LA R/W

8:1

4:1

860

850

240 6

855.34
60+00

913 28

CALC. R.J.R. DATE 7/10/68

CHK'D L.N. DATE 7/15/68

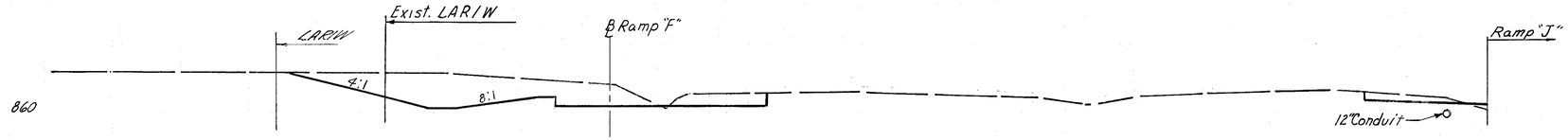
S.R. 32
STA 60+00 ~ STA. 63+50

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

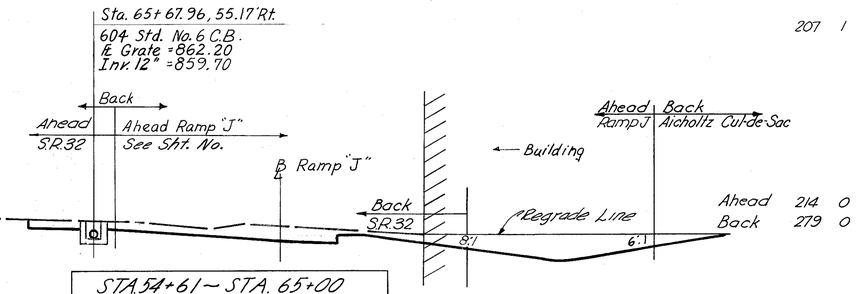
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CLERMONT COUNTY
CLE-275-6.68

357
6.38



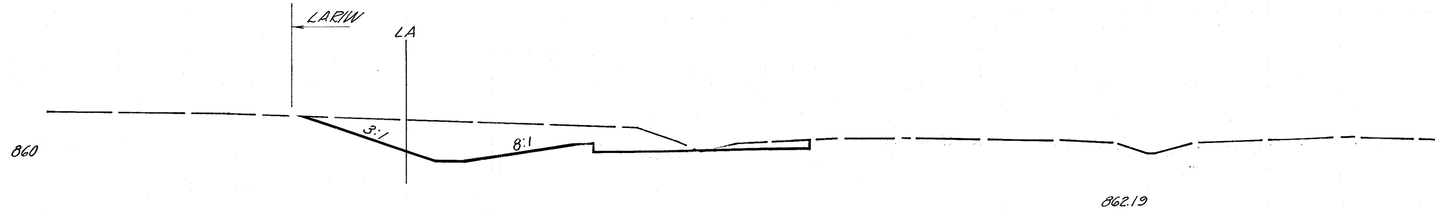
862.78
66+00



207 1

257 1

Ahead 214 0
Back 279 0

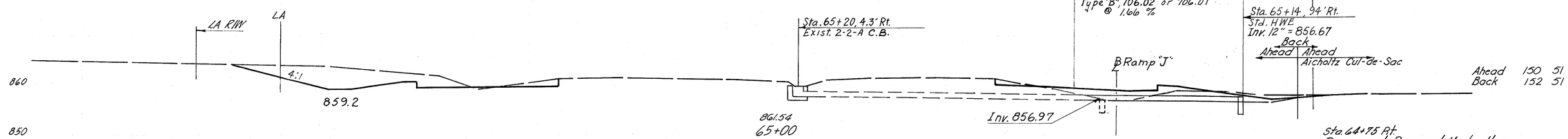


862.19
65+66.78

STA. 54+61 ~ STA. 65+00

Excavation	5,721	C.Y.
Embankment	482	C.Y.

532 63



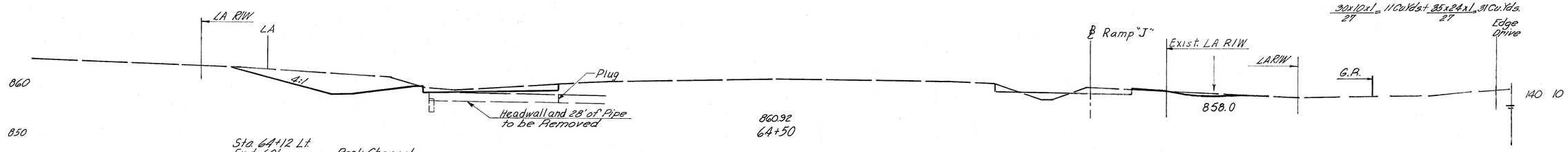
861.54
65+00

Sta. 64+75 Rt.
Pavement Removed Under Item 203 Excavation not Including Embankment Construction and Earth Backfill Shall be Included in Item 203 Embankment, see Sheet No. 71

30 x 10 x 1 / 27 = 11 Cu Yds + 85 x 24 x 1 / 27 = 31 Cu. Yds.

270 56

31 31



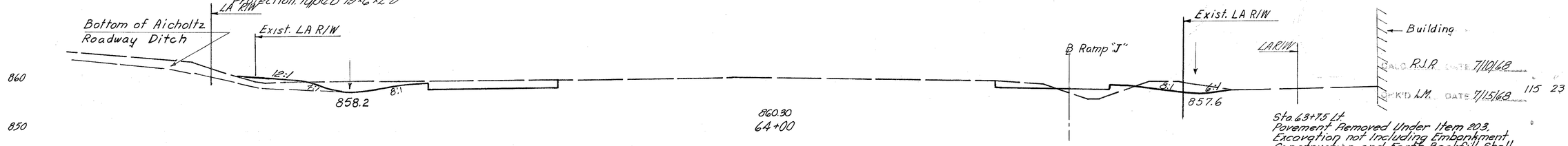
860.92
64+50

140 10

Sta. 64+12 Lt.
End 601 Rock Channel
Protection Type B 19"x6'x2'-0"

Sta. 64+06 Lt.
Begin 601 Rock Channel
Protection Type B 19"x6'x2'-0"

23G 31



860.30
64+00

CALC. R.J.R. DATE 7/10/68
CK'D L.M. DATE 7/15/68

115 23

Sta. 63+75 Lt.
Pavement Removed Under Item 203 Excavation not Including Embankment Construction and Earth Backfill Shall be Included in Item 203 Embankment, see Sheet No. 71

24 x 24 x 1 / 27 = 21 Cu Yds.

245 35

21 21

S.R. 32
STA. 64+00 ~ STA. 66+00

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

358
638

CLERMONT COUNTY
CLE-275-6.68

Ramp F
864.7
8:1
EXIST. LA R/W
12:1
862.2
Match Line
860

865.88
68+50

Match Line
Ramp J
12:1
860
100
120
Sta. 68+24 Rt.
End 667 Jute Matting
7'-6" Wide

183 9

LA R/W
157'
Exist. LA R/W
℄ Ramp "F"
See Sheet No.
Back
Ahead Only
4:1
8:1
860

LA
12:1
862.0
12:1

248 17

Ahead 160 14
Back 440 16

865.31
68+11

LA R/W
LA
℄ Ramp "F"
3:1
860

LA
861.85
9.4:1
8.4:1

851 30
313 11

864.64
67+50

LA R/W
LA
℄ Ramp "F"
860

EXIST. LA R/W
861.70
8:1
7:1

459 21
183 12

864.02
67+00

Sta. 66+66.78 - Ramp "J" Sta. 547+56.89, 30' Lt.
604 Std. No. 5 C.B.
℄ Grate = 861.25
Inv. 12" = 858.68
Inv. 18" = 857.24

Sta 66+74 Rt.
Begin 667 Jute Matting
7'-6" Wide

354 39

LA R/W
Exist. LA R/W
℄ Ramp "F"
3:1
8:1
860

Ramp J
862.6
8:1
7:1
To Ramp "J" Sta. 546+99
603 18" Conduit

199 30

863.40
66+50

CALC. R.J.R. DATE 7/10/68
CHK'D L.M. DATE 7/15/68

376 29

S.R. 32
STA. 66+50 ~ STA. 68+50

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

CAL'D R.J.R. DATE 7/10/68

CHK'D L.M. DATE 7/15/68

S.R. 32

STA. 69+00 ~ STA. 71+00

5G1 10

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

360
638

CLERMONT COUNTY
CLE-275-6.68

Ramp G
Ramp F
EXIST. LA RW
864.36
870
Match Line C
210 200 180 160 140

Match Line D
Ramp K
26:1
860
140

870
Match Line C
LA
866.0
20:1
24" Conduit
869.62
73+00
LA
12:1
866.25
26:1
Match Line D
1194 0

2452 0

190 180 160 140
864.2
24" Conduit
870
Match Line B

870
Match Line B
LA
20:1
Sta. 72+00 152 Lt.
604 Std. No. 4 C.B.
℄ Grate = 863.0
Inv. 24" = 860.34
869.56
72+50
LA
18:1
866.0
26:1
Match Line C
1455 0

160 140
Match Line A
870

870
Match Line A
LA
17:1
869.40
72+00

2953 0

870
Match Line C
26:1
140 160 180
LA
865.50
20:1
26:1
Match Line B
1735 0

870
Match Line B
26:1
140 160 180 200
4532 0

Ramp F
EXIST. LA RW
870
863.25
864.0
13:1
EXIST. LA RW
20:1
Match Line A
1812 0

869.08
71+31
Match Line A
865.25
39:1
Ramp K
Ramp J
2078 3

CALC. R.J.R. DATE 7/10/68
CHK'D L.M. DATE 7/15/68

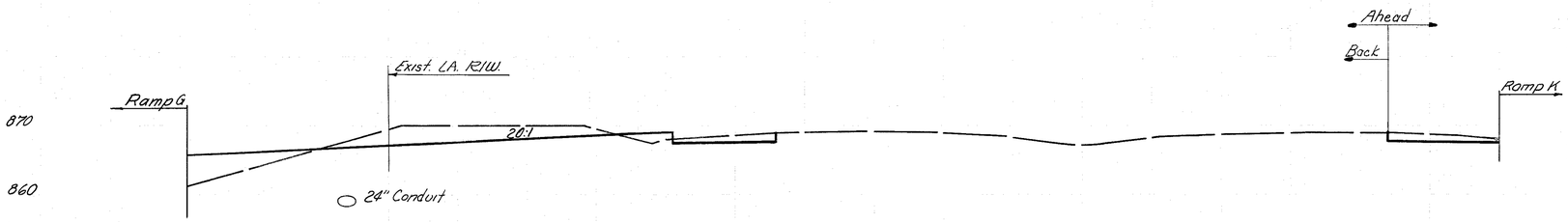
S.R. 32
STA. 71+31 ~ STA. 73+00

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140 120 100 80 60 40 20 ℄ 20 40 60 80 100

361
638

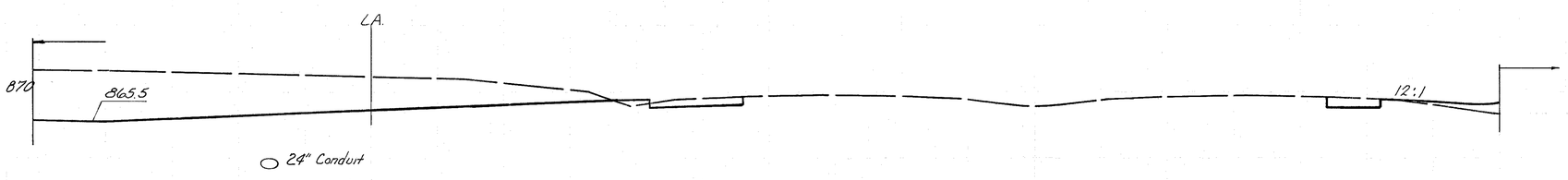
CLERMONT COUNTY
CLE-275-6.68



869.02
75+00

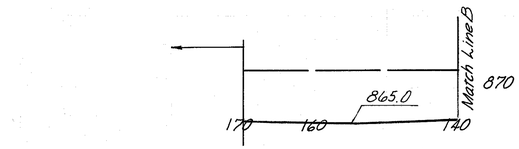
Ahead 100 51
Back 86 51

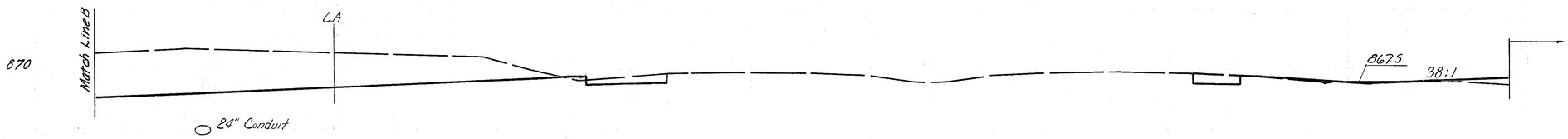
583 60



869.18
74+45

486 8

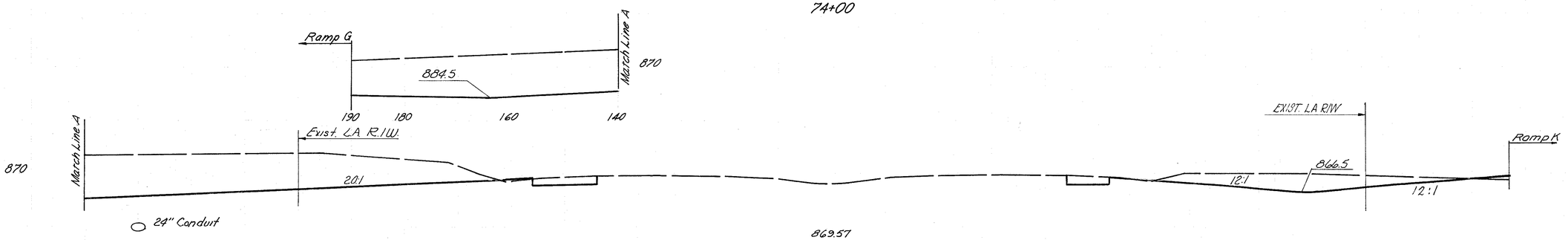




869.42
74+00

95G 12

GG2 G



869.57
73+50

1524 G

984 1

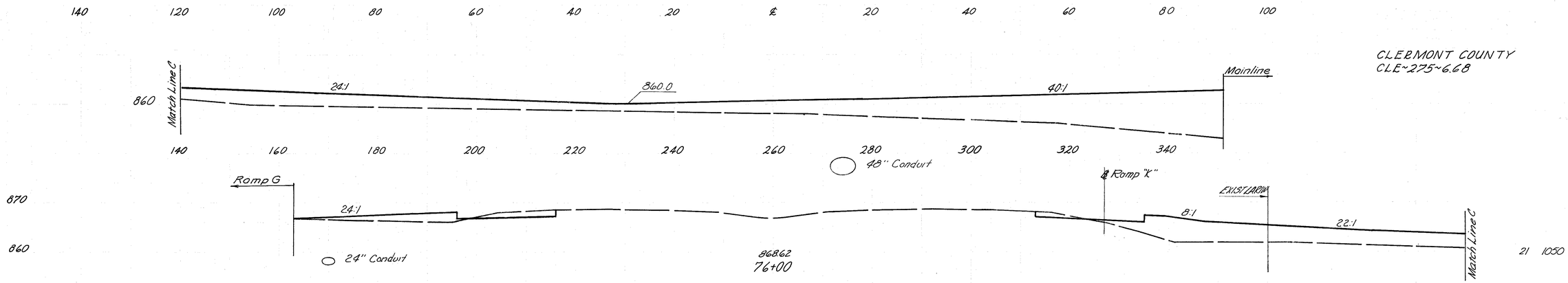
2017 1

CALC. R.J.R. DATE 7/10/68
CHK'D L.M. DATE 7/15/68
S.R. 32
STA. 73+50 ~ STA. 75+00

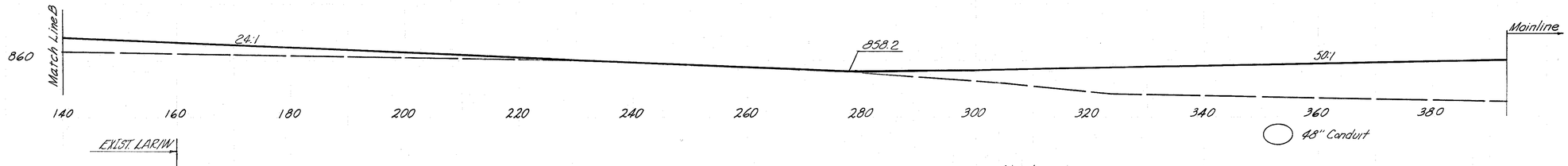
140 120 100 80 60 40 20 ℄ 20 40 60 80 100
120 140

CLERMONT COUNTY
CLE-275-6.68

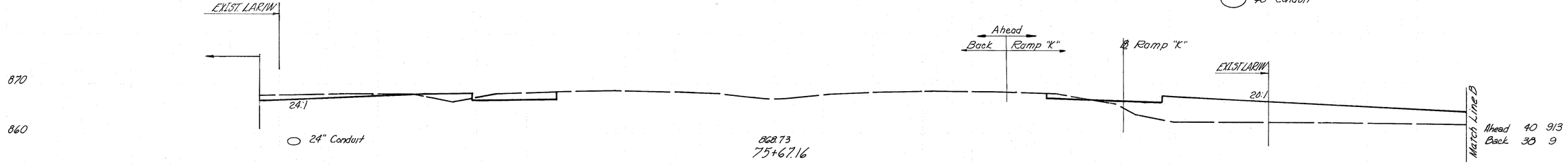
362
638



21 1050

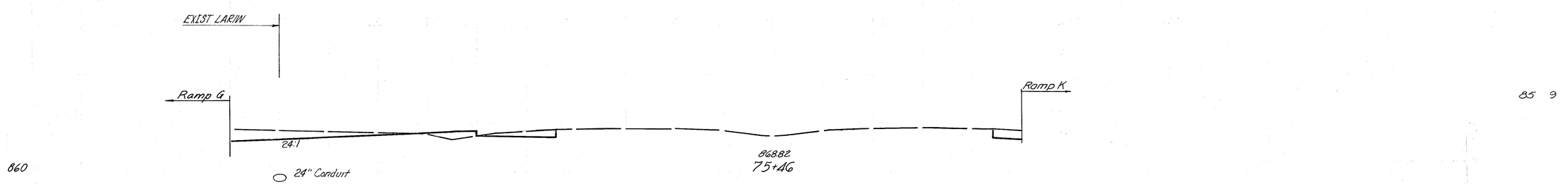


37 1199



Ahead 40 913
Back 38 9

48 7



85 9

158 51

CALC. R.J.R. DATE 7/10/68
CHK'D L.M. DATE 7/15/68

S.R. 32
STA 75+50 ~ STA. 76+00

363
638

CLERMONT COUNTY
CLE-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

Mainline Ramp G — 15:1 — 870.0 — 6:1 — Match Line E — 860

200 180 160 140 ℄ Ramp G

Match Line E — 6:1 — 866.0 — 864.5 — L.A. — 8:1 — 860

867.97
77+66

℄ Ramp "K" — G.R. 8:1 — EXIST LA R/W — 865.0 — Skewed Slope — Mainline

24 1181

Mainline — 12:1 — 870.0 — 10:1 — 868.0 — Match Line D

36" Conduit — Mainline — Match Line C — 860

GB 1268

140 160

Ahead — Back Ramp G Back — See Sht. No.

Match Line D — L.A. — 8:1 — 860

4' Bottom Special Ditch
Cont. from SR. 32

868.13
77+27.56

℄ — G.R. 8:1 — 866.0 — 12:1 — 864.5 — 60:1 — Match Line C

Ahead 72 612
Back 45 370

Sta. 77+07 Lt.
Begin Median Guard Rail

Match Line B — 860

36" Conduit — 40:1

41 304

140 160 180 200 220

Sta. 77+00.50 Rt.
Begin Guard Rail

Sta. 76+82 SR 32 =
Sta. 569+70, 27' Rt. Ramp "K"
604 Std. No. 2 M.H W/O Drop Pipe
Top Elev. = 866.00
N. Inv. 33" = 852.73
E. Inv. 36" = 847.75
Inv. 48 1/4 = 846.75

867.6 — 18:1 — 8:1 — 18:1 — 864.0 — 40:1 — Match Line B

34 Q02

860

868.22
77+00

603 33" Conduit Type B 706.02 Cl. III or 706.08 Cl. B Bedding

To M.H. Sta. 563+00 Ramp "K" — Mainline

Match Line A — 24:1 — 862.0 — 60:1 — 860

48" Conduit

G4 1132

140 160 180 200 220 240 260 280

Ramp G — 867.3 — 8:1 — 860

24" Conduit

868.42
76+50

Ramp "K" — EXIST LA R/W — 866.0 — 8:1 — 15:1 — 15:1 — 864.0 — Match Line A

35 G75

CALC. R.J.R. DATE 7/10/68

CHK'D L.M. DATE 7/15/68

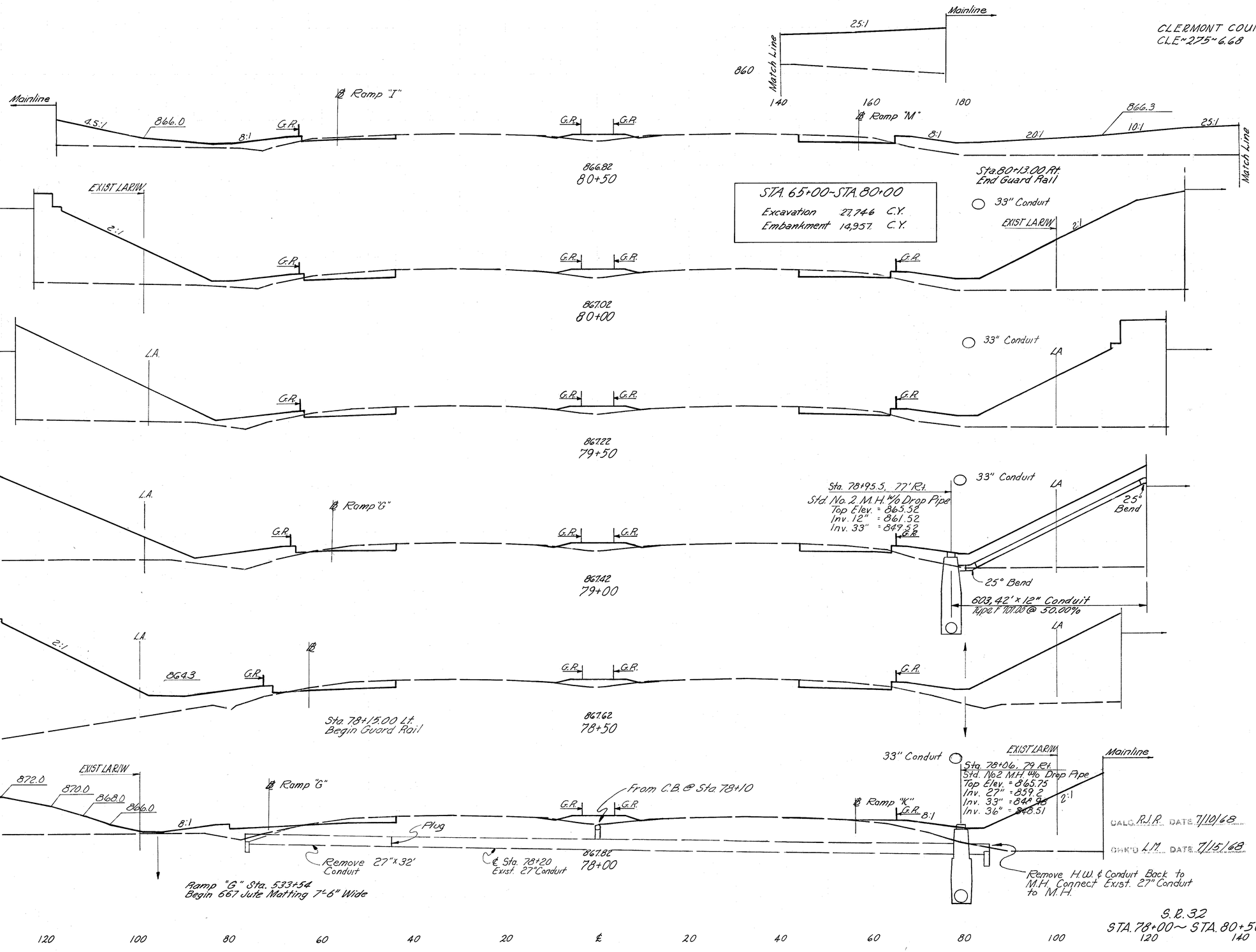
52 1597

S.R. 32
STA. 76+50 ~ STA. 77+66

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

CLERMONT COUNTY
CLE~275~6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



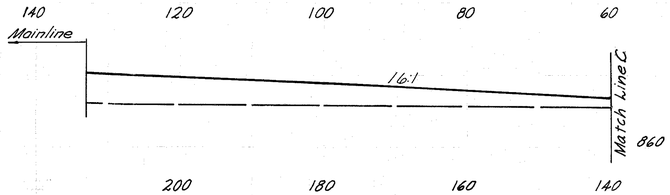
367	
638	
41	740
81	1674
47	1069
97	2024
58	1117
93	1974
42	1015
90	2008
55	1154
65	1661
15	640
25	1147

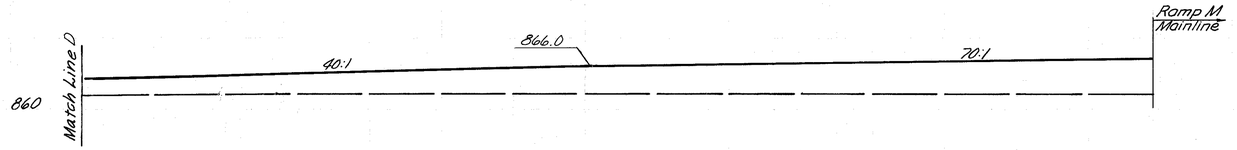
CALC. R.J.R. DATE 7/10/68
CHK'D L.M. DATE 7/15/68

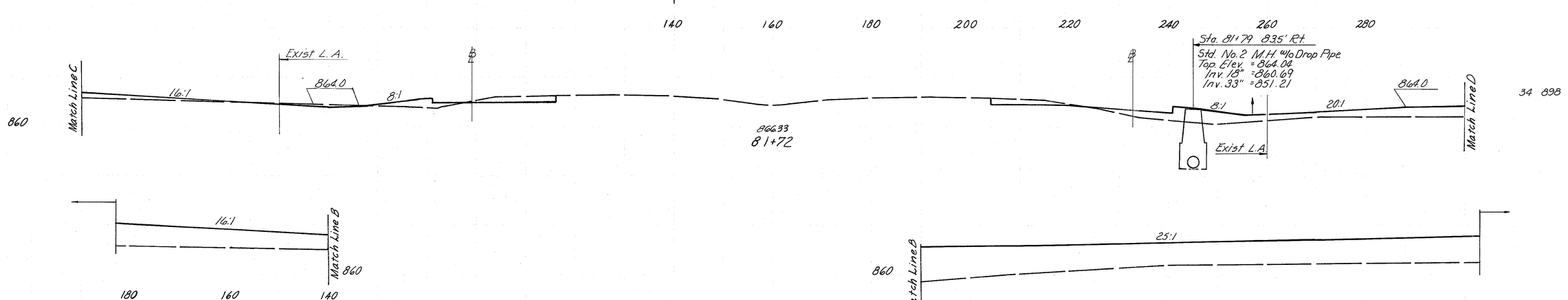
S.R. 32
STA. 78+00 ~ STA. 80+50

365
638

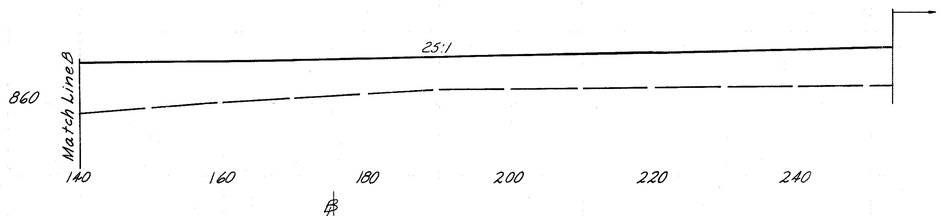
CLERMONT COUNTY
CLE-275-6.68



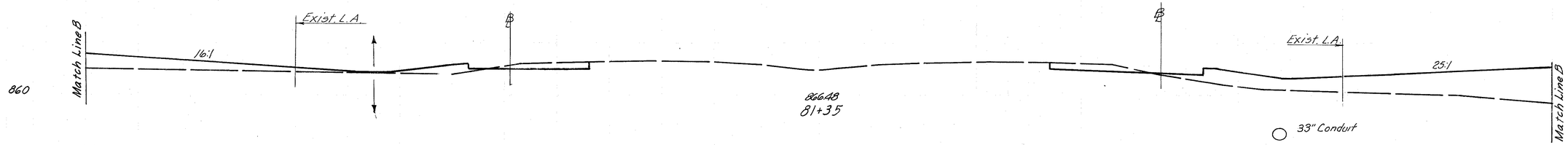




34 898

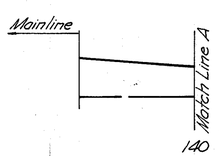


49 1323

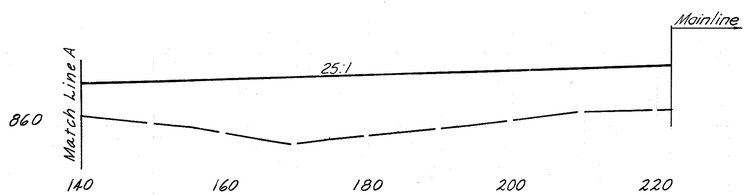


38 1033

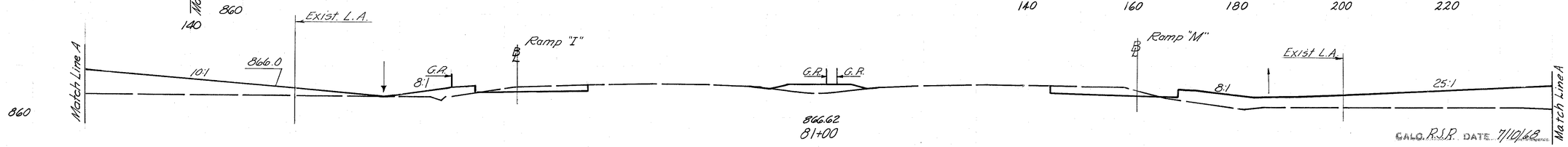
Sta. 81+19.5 Rt.
End Median Guard Rail



Sta. 81+27.50 Lt.
End Guard Rail



51 1345

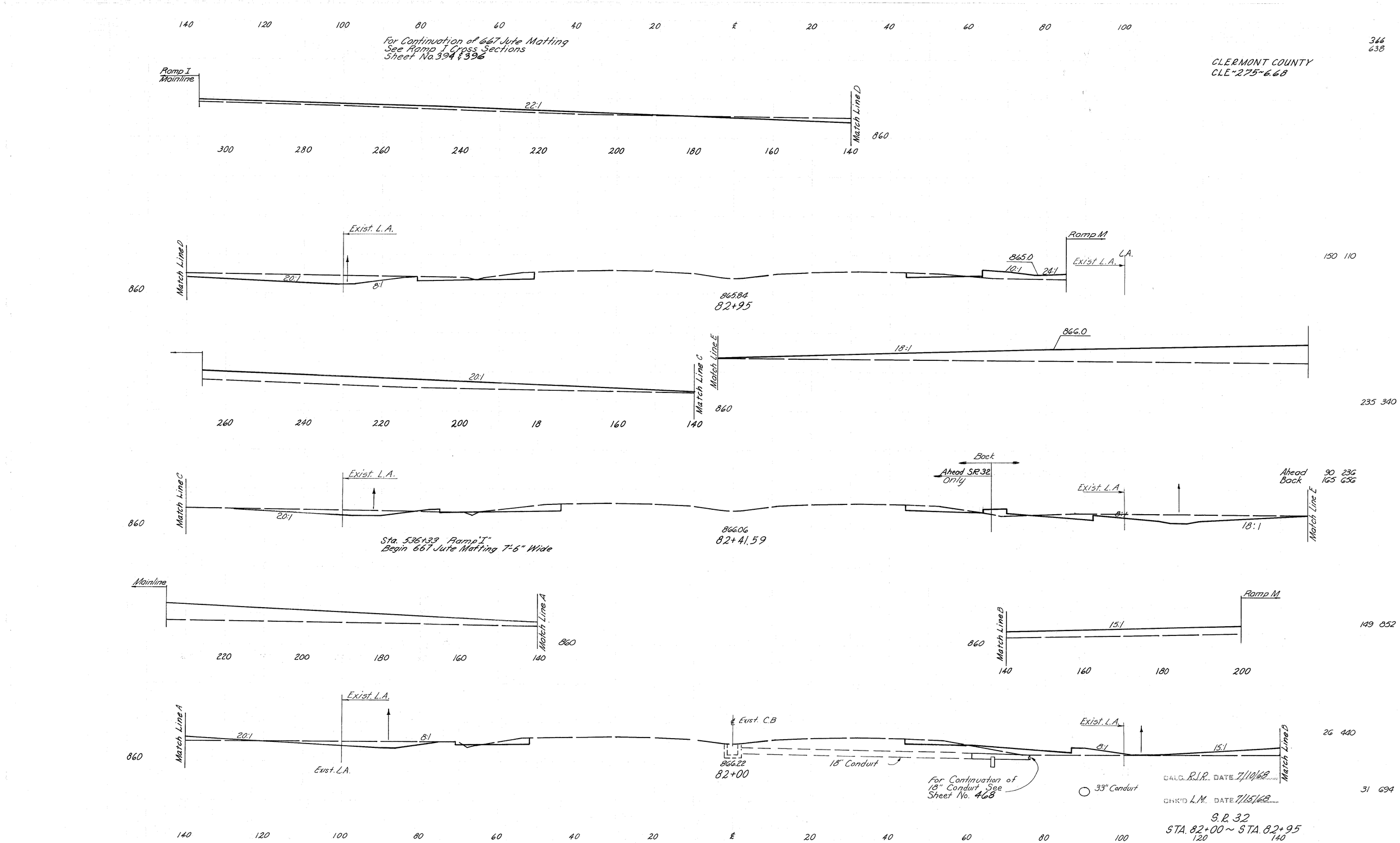


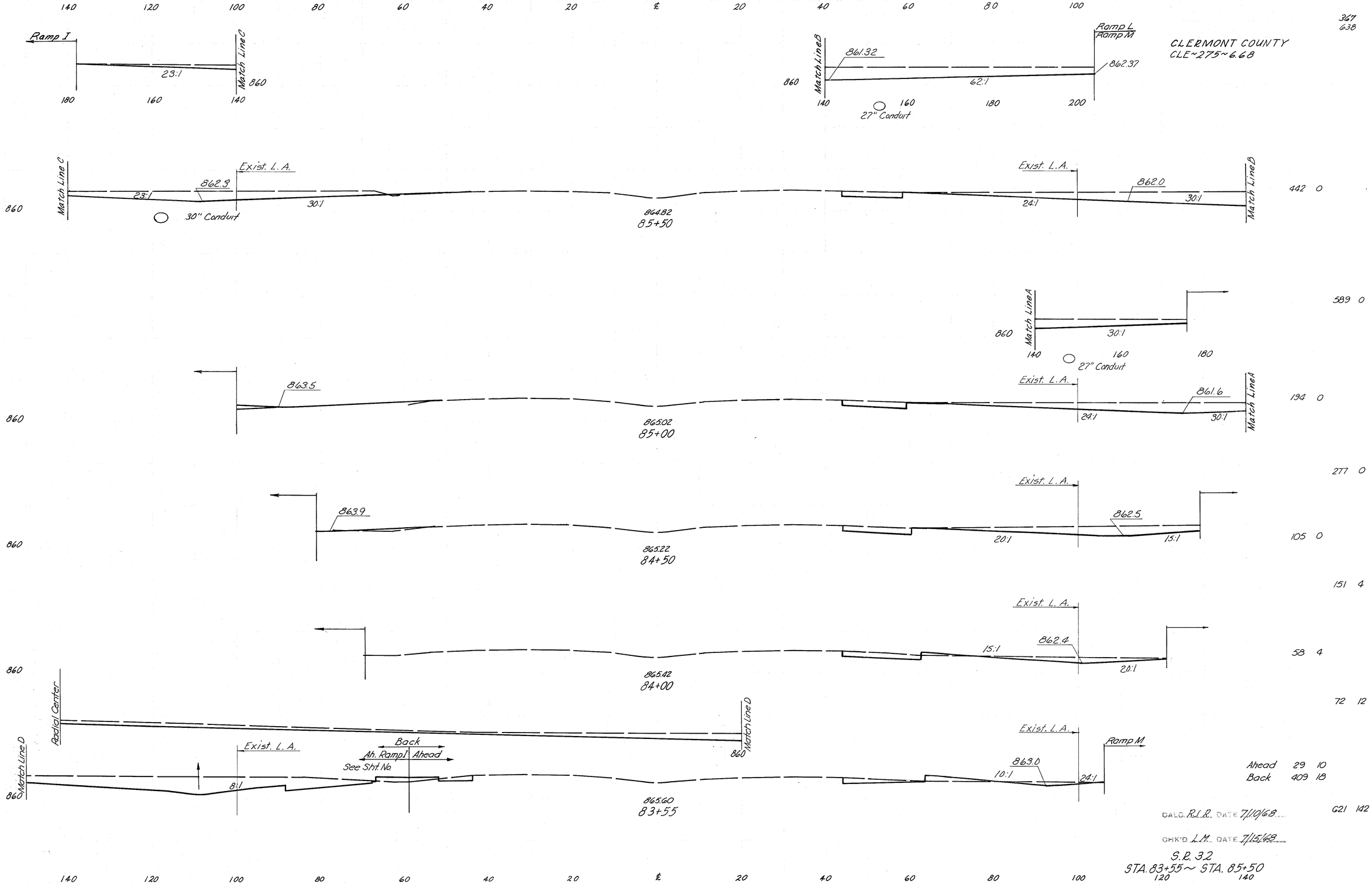
40 1042

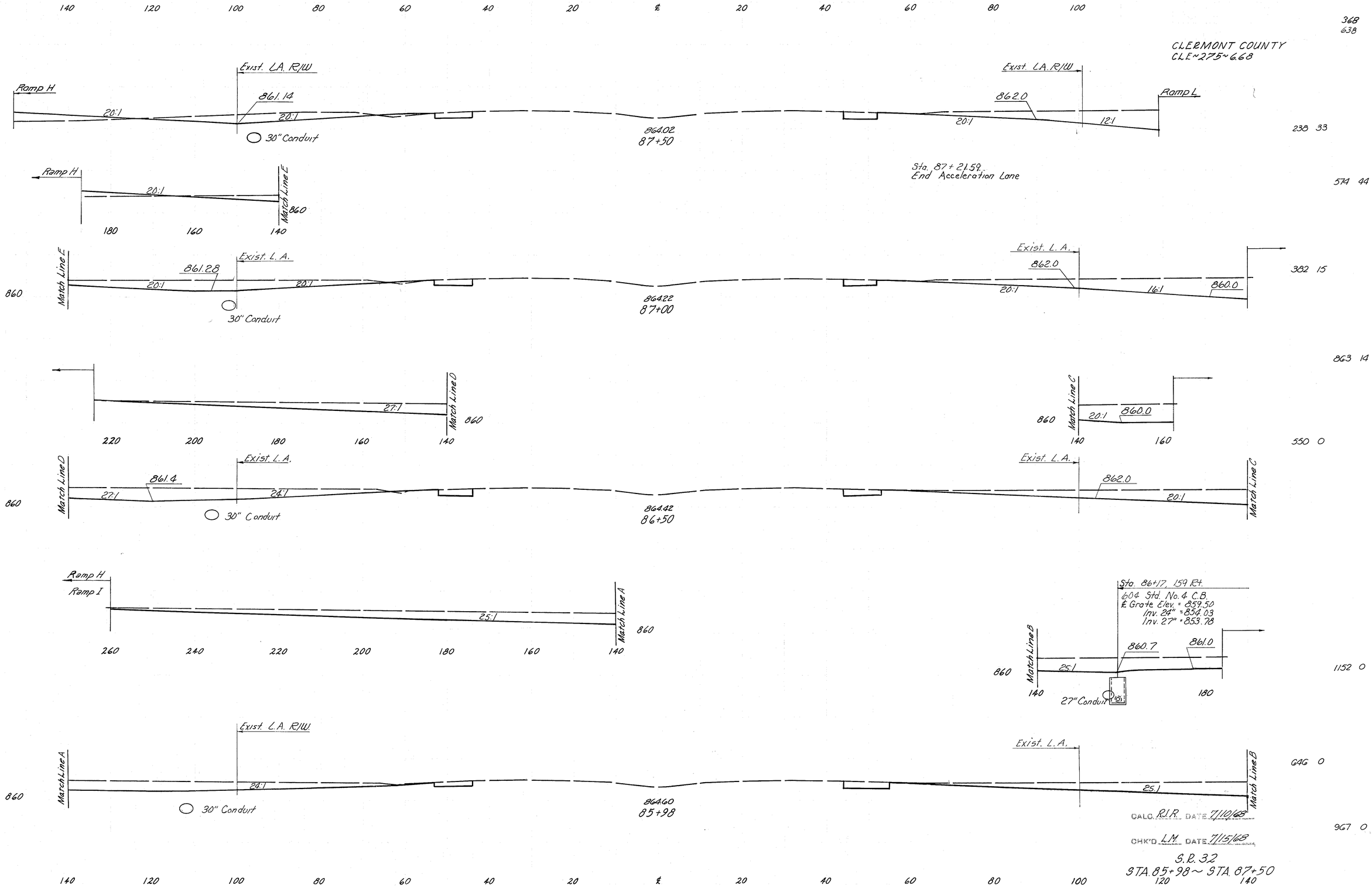
CALC. R.J.R. DATE 7/10/68
CHK'D L.M. DATE 7/15/68

75 1650

S.R. 32
STA. 81+00 ~ STA. 81+72


140 120 100 80 60 40 20 ℄ 20 40 60 80 100
For Continuation of 667 Jute Matting
See Ramp I Cross Sections
Sheet No. 394 & 396
366
638
CLERMONT COUNTY
CLE-275-6.68
Ramp I
Mainline
22:1
Match Line D
860
300 280 260 240 220 200 180 160 140
Match Line D
Exist. L.A.
860
20:1
8:1
865.84
82+95
Ramp M
865.0
10:1
24:1
Exist. L.A.
L.A.
150 110
Match Line E
866.0
18:1
20:1
Match Line C
860
260 240 220 200 18 160 140
235 340
Match Line C
Exist. L.A.
860
20:1
8:1
Exist. L.A.
866.06
82+41.59
Back
Ahead SR.32
Only
Exist. L.A
8:1
18:1
Match Line E
Ahead
Back
90 236
165 656
Sta. 536+33 "Ramp I"
Begin 667 Jute Matting 7'-6" Wide
Mainline
Match Line A
860
220 200 180 160 140
Match Line B
860
15:1
Ramp M
140 160 180 200
149 852
Match Line A
Exist. L.A.
860
20:1
8:1
Exist. L.A.
℄ Exist. C.B
866.22
82+00
18" Conduit
For Continuation of
18" Conduit See
Sheet No. 468
Exist. L.A.
8:1
15:1
Match Line B
33" Conduit
26 440
31 694
CALC. R.J.R. DATE 7/10/68
CHK'D L.M. DATE 7/15/68
S.R. 32
STA. 82+00 ~ STA. 82+95
140 120 100 80 60 40 20 ℄ 20 40 60 80 100
120 140


140 120 100 80 60 40 20 ℄ 20 40 60 80 100
Ramp J
23:1
Match Line C
860
180 160 140
Match Line B
861.32
860
62:1
Ramp L
Ramp M
862.37
140 160 180 200
27" Conduit
CLERMONT COUNTY
CLE~275~6.68
367
638
Match Line C
Exist. L.A.
862.3
860
23:1
30:1
30" Conduit
86482
85+50
Exist. L.A.
862.0
24:1
30:1
Match Line B
442 0
589 0
Match Line A
860
30:1
140 160 180
27" Conduit
863.5
860
86502
85+00
Exist. L.A.
861.6
24:1
30:1
Match Line A
194 0
277 0
Exist. L.A.
863.9
862.5
860
20:1
15:1
86522
84+50
105 0
151 4
Exist. L.A.
862.4
15:1
20:1
58 4
860
86542
84+00
72 12
Radial Center
Match Line D
Match Line D
Exist. L.A.
Back
Ah. Ramp1 Ahead
See Sht No
860
8:1
Exist. L.A.
Ramp M
863.0
10:1
24:1
86560
83+55
Ahead 29 10
Back 409 18
G21 142
CALC. RJR DATE 7/10/68
CHK'D LM DATE 7/15/68
S.R. 32
STA. 83+55 ~ STA. 85+50
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140


140 120 100 80 60 40 20 ℄ 20 40 60 80 100
CLERMONT COUNTY
CLE-275-6.68
Exist. LA. R/W
Ramp H
861.14
20:1
20:1
30" Conduit
864.02
87+50
Exist. LA. R/W
862.0
Ramp L
20:1
12:1
Sta. 87+21.59
End Acceleration Lane
Ramp H
20:1
Match Line E
860
180 160 140
Match Line E
860
Exist. L. A.
861.28
20:1
20:1
30" Conduit
864.22
87+00
Exist. L. A.
862.0
20:1
16:1
860.0
Match Line D
860
27:1
Match Line D
860
220 200 180 160 140
Match Line C
860
20:1
860.0
140 160
Match Line D
860
Exist. L. A.
861.4
27:1
24:1
30" Conduit
864.42
86+50
Exist. L. A.
862.0
20:1
Match Line C
Ramp H
Ramp I
25:1
Match Line A
860
260 240 220 200 180 160 140
Sta. 86+17, 159 Rt.
604 Std. No. 4 C.B.
℄ Grate Elev. = 859.50
Inv. 24" = 854.03
Inv. 27" = 853.78
860.7
861.0
Match Line B
860
25:1
140
27" Conduit
180
Match Line A
860
Exist. L.A. R/W.
24:1
30" Conduit
864.60
85+98
Exist. L.A.
25:1
Match Line B
CALC. R.I.R. DATE 7/10/68
CHK'D L.M. DATE 7/15/68
S.R. 32
STA. 85+98 ~ STA. 87+50
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140
368 638
238 33
574 44
382 15
863 14
550 0
1152 0
646 0
967 0

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

CLERMONT COUNTY
CLE-275-6.68

369
638

860

Ramp H — 862.24 — 24:1 — 12:1 — 861.5 — Ramp L
863.22
89+50

GG 10

78 G

860

862.12 — 24:1 — 12:1 — 861.5
863.31
89+24

95 2

104 4

860

862.06 — 20:1 — 12:1 — 861.0
863.42
89+00

140 G

294 G

860

Exist. L.A. — 861.9 — 20:1 — 12:1 — 860.5
○ 30" Conduit
863.62
88+50

178 1

387 38

860

S.R. 32 Sta. 87+82.93 Lt.
604 Std. No. 5 C.B.
Rt. Grate Elev. = 861.0
Inv 30" = 856.29

20:1 — 861.5 — 20:1
Exist. L.A.

Exist. L.A. — 862.0 — 12:1 — 860.0

863.82
88+00

For Item 667 Jute Matting
See Plan S.R. 32 Sheet No. 74

240 40

215 29

860

Ramp H — 20:1 — Exist. L.A. — 861.2 — 20:1
○ 30" Conduit

Exist. L.A. — 862.0 — 12:1 — 859.75 — Ramp L

863.91
87+74

207 21

198 24

CHK'D R.J.R. DATE 7/10/68
CHK'D J.M. DATE 7/15/68

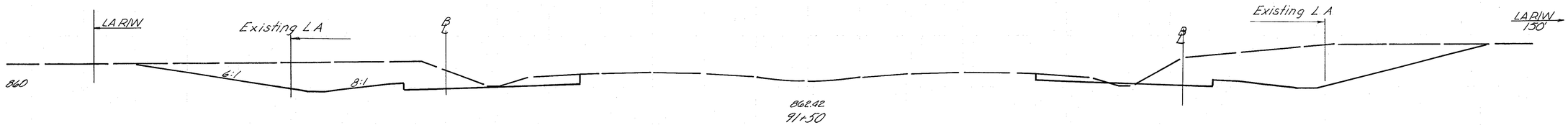
S.R. 32
STA. 87+74 ~ STA. 89+50

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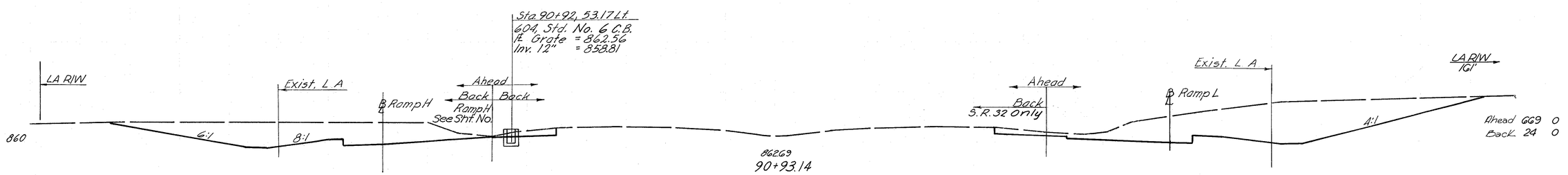
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370
638

CLERMONT COUNTY
CLE~275~6.68

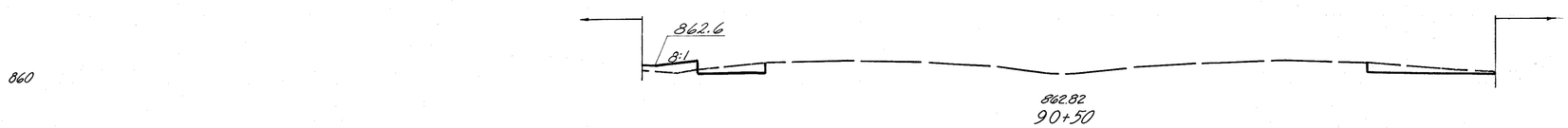


G33 2



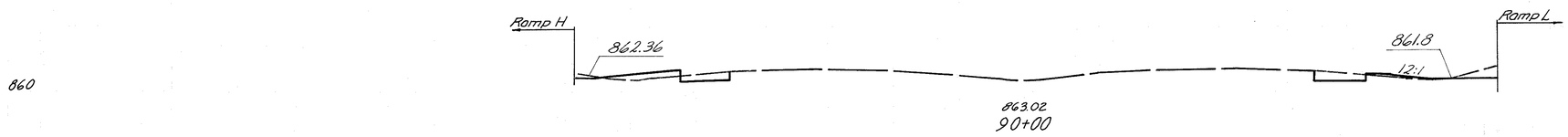
1309 2

Ahead 669 0
Back 24 0



22 8

35 17



16 10

76 19

CALC. R.J.R. DATE 7/10/68
CHK'D L.M. DATE 7/15/68

S.R. 32
STA. 90+00 ~ STA. 91+50

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

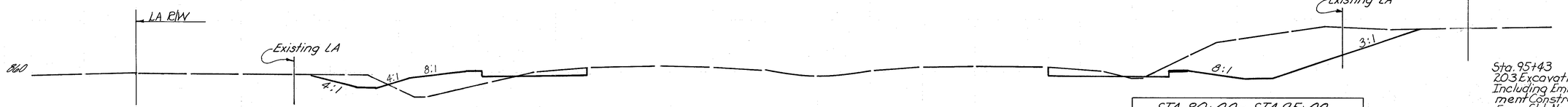
37 G

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

371
638

CLERMONT COUNTY
CLE ~ 275 ~ 6.68

Sta. 95+72.87'
Std. HW-E
Inv. 18" = 854.89



291 52

Sta. 95+43
203 Excavation Not Including Embankment Construction From Sht. No. 462

5

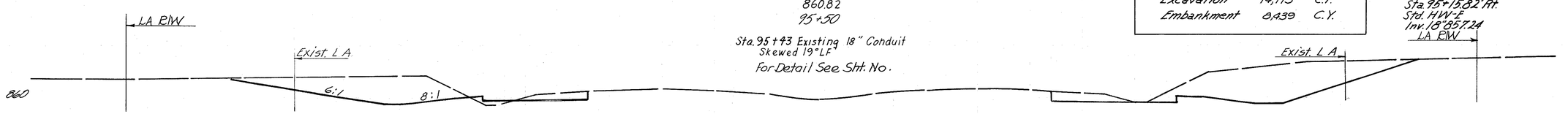
612 52

STA. 80+00 ~ STA. 95+00		
Excavation	14,113	C.Y.
Embankment	8,439	C.Y.

860.82
95+50

Sta. 95+93 Existing 18" Conduit
Skewed 19° LF
For Detail See Sht. No.

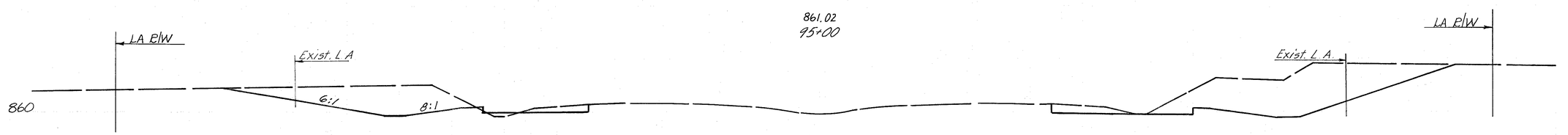
Sta. 95+15.82' Rt.
Std. HW-E
Inv. 18" 857.24



370 4

1563 17

861.02
95+00

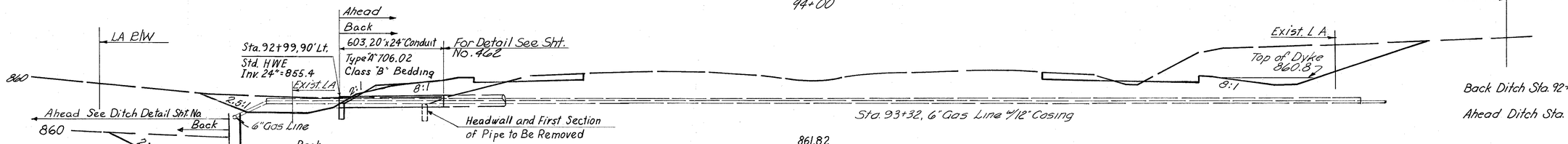


474 5

1394 128

Sta. 93+07
Begin 4' Bottom Ditch

861.42
94+00



279 64

Back Ditch Sta. 92+90 81 0 49 0

Ahead Ditch Sta. 92+60 7 0 391 47

861.82
93+00

603, 28'x 24" Conduit
Type "A" 706.02 Cl. "B" Bedding
For Detail See Sht. No. 462

Sta. 92+68, 89' Rt.
Std. HWE
Inv. 24" = 858.29

Exist. L A

857.55

Headwall and First Section of Pipe to Be Removed

LA R/W
Ahead 249 0
Back 256 0

Sta. 92+83
203 Excavation Not Including Embankment Construction From Sht. No. 462

60

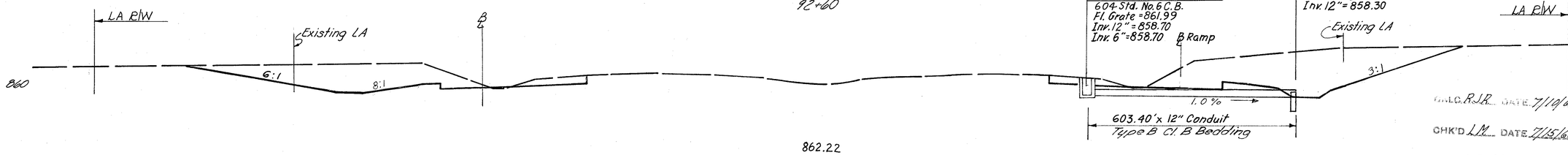
893 0

862.06
92+60

Sta. 92+42.76, 51.17' Rt
604-Std. No. 6 C.B.
Fl. Grate = 861.99
Inv. 12" = 858.70
Inv. 6" = 858.70

℄ Ramp

Sta. 92+58, 89 Rt.
Std. HW-E
Inv. 12" = 858.30



548 0

DWG. RJA DATE 7/19/68

CHK'D LM DATE 7/15/68

1093 2

862.22
92+00

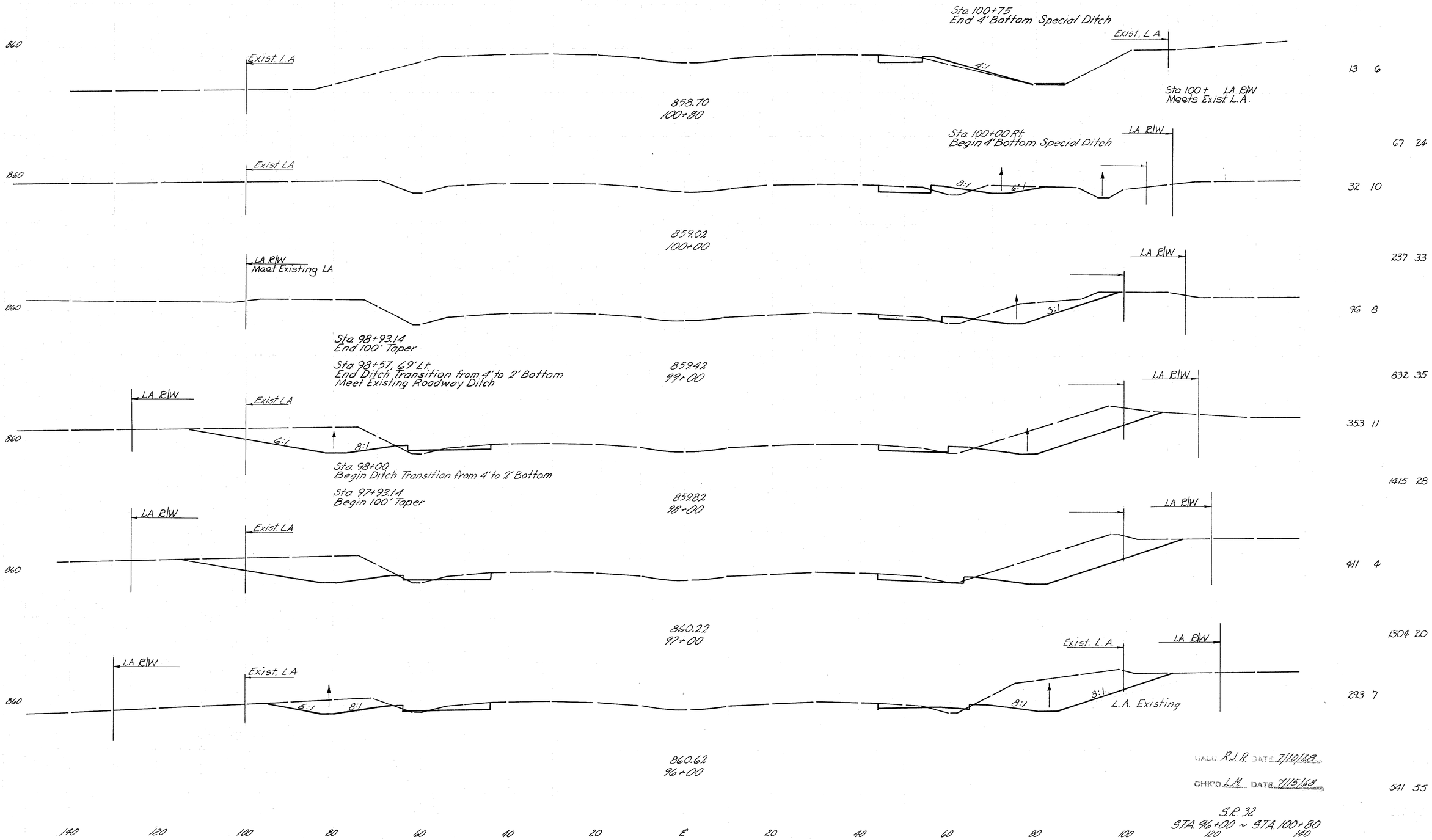
S.P. 32
STA. 92+00 ~ STA. 95+50

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

372
638

CLERMONT COUNTY
CLE ~ 275 ~ 6.68



DRAWN R.J.R. DATE 7/10/68

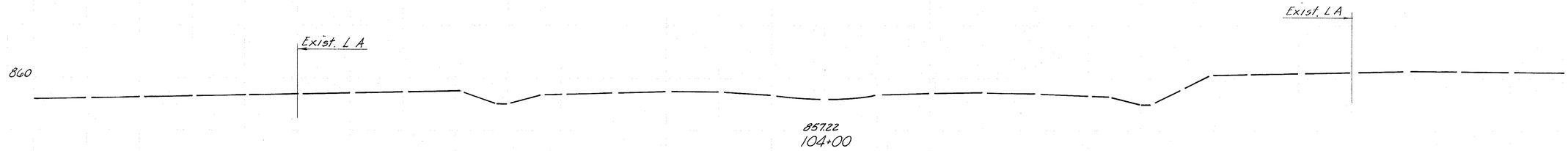
CHK'D L.M. DATE 7/15/68

S.R. 32
STA. 96+00 ~ STA. 100+80

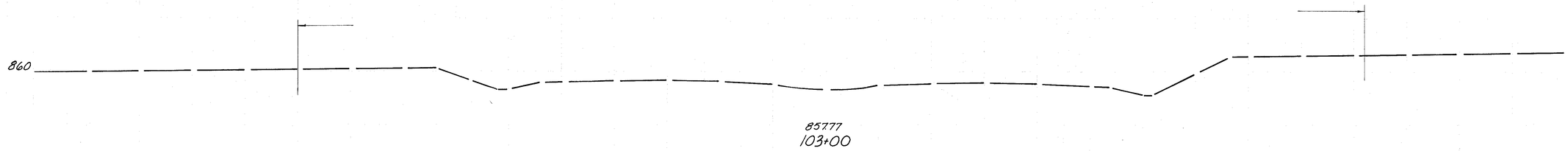
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373
6.38

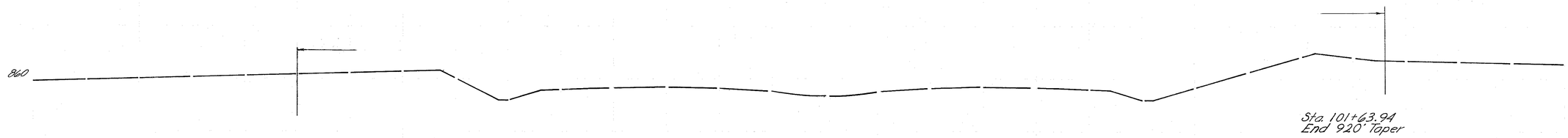
CLERMONT COUNTY
CLE ~ 27.5 ~ 6.68



85722
104+00

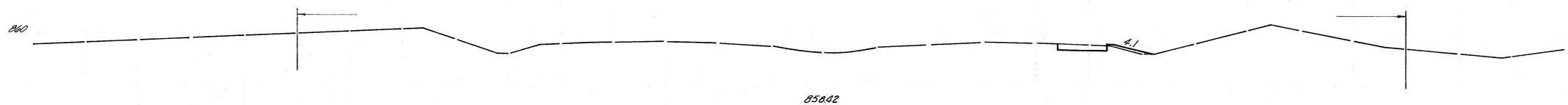


85777
103+00



Sta. 101+63.94
End 920' Taper

85822
102+00

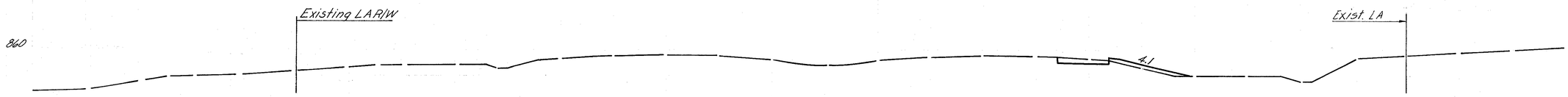


85842
101+50

8 4

9 4

10 10



85862
101+00

10 7

9 5

CALC. R.J.R. DATE 7/10/68

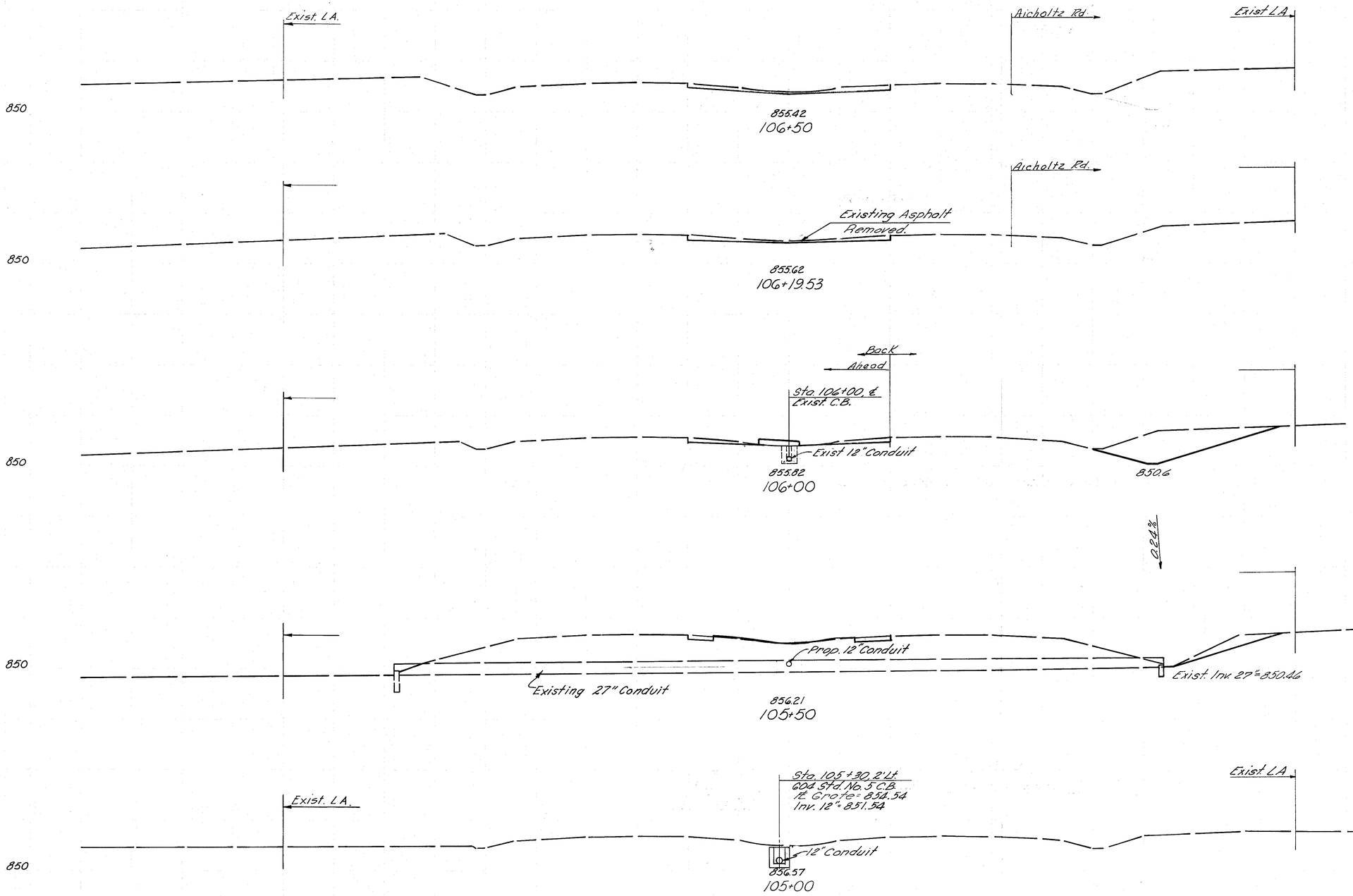
CHK'D L.M. DATE 7/15/68

S.R. 32
STA. 101+00 ~ STA. 104+00

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

CLERMONT COUNTY
CLE-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



3 3/4
638

37 11
25 0
30 0
28 6
15 3
Ahead 13 8
Back 13 8
15 7
38 0
35 0
0 0

CALC. K.J.K. DATE 10/24/69
CHK'D R.E.J. DATE 10/25/69

S.R. 32
STA. 105+00 ~ STA. 106+50

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

375
638

CLERMONT COUNTY
CLE.-275-6.68

14 13

Exist. L. A.

Exist. L. A.

5 6

850

453.22
109+25

17 20

6 7

850

853.74
108+42.46

93 11

114 7

850

854.22
108+00

502 35

Exist L. A.

Ahead
Back

Exist L. A.

Ahead 157 12
Back 15 12

850

855.02
107+00

850.8

-0.22%

CALC. RJE DATE 10/24/69

CHK'D [illegible] DATE 10/25/69

S.R. 32
STA. 107+00 - STA. 109+25

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

CLERMONT COUNTY
CLE-2.75-6.68

STA. 95+00 ~ STA 112+27.46		
Excavation	5,951	Cu. Yd.
Embankment	368	Cu. Yd.

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

Exist. LA

850

Exist. LA

850.89

851.93
111+00

STA. 110+30.81
END WORK

Exist LA

Exist LA

850

852.70
110+00

Sta. 110+30.81 Back 0 0

3 2

5 3

CALC. RJR DATE 10/24/69

CHK'D DATE 10/25/69

S.R. 32
STA. 110+00 ~ STA. 112+27.46

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

377
638

CLERMONT COUNTY
CLE.-275-6.68

880

Mainline

LA R/W

866 0

3:1

8:1

1581 0

870.17
538+50
880.5

880

LA R/W

874 0

10:1

874 0

86983
538+00
880.2

880

LA R/W

942 0

870.82

Note: Volumes of Cross Sections Sta. 536+76 to Sta. 554+50 inclusive have been corrected for curvature by the method shown on Sht. No. 22

1607 0

86966
537+73.47
879.5

880

LA R/W

868 0

870.92

1579 0

86932
537+25
880.0

880

Mainline

LA R/W

872 0

3:1

8:1

86899
536+76 (Skewed)
879.0

CALC. R.I.R. DATE 7/10/68

CHK'D L.M. DATE 7/15/68

RAMP F
STA 536+76 ~ 538+50

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

880

Mainline

20:1

8:1

5:1

LA R/W

871.17
541+50
875.5

942 0

880

4:1

LA R/W

871.87
541+00
877.4

1852 0

932 0

880

4:1

LA R/W

1850 0

1010 0

871.53
540+50
879.0

1882 0

880

3:1

LA R/W

1008 0

871.19
540+00
880.9

1796 0

880

20:1

LA R/W

940 0

870.85
539+50
881.0

1693 0

880

Mainline

15:1

8:1

3:1

LA R/W

910 0

870.51
539+00
881.1

1617 0

CALC. R.J.R. DATE 7/10/68

CHK'D L.M. DATE 7/15/68

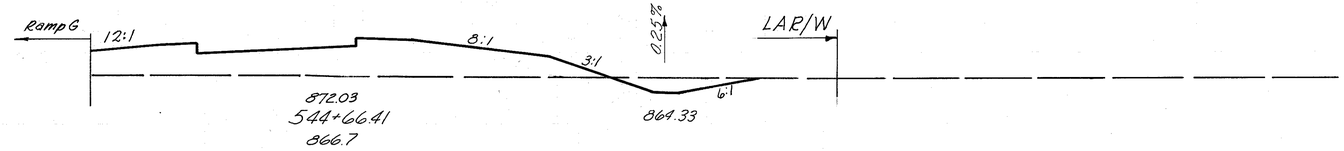
RAMP F
STA 539+00 ~ 541+50

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

379
638

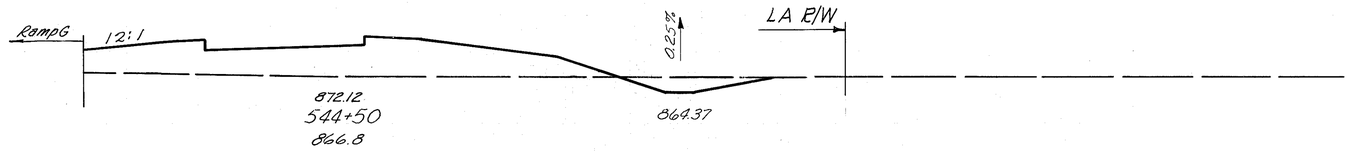
CLERMONT COUNTY
CLE.-275-6.68



28 272

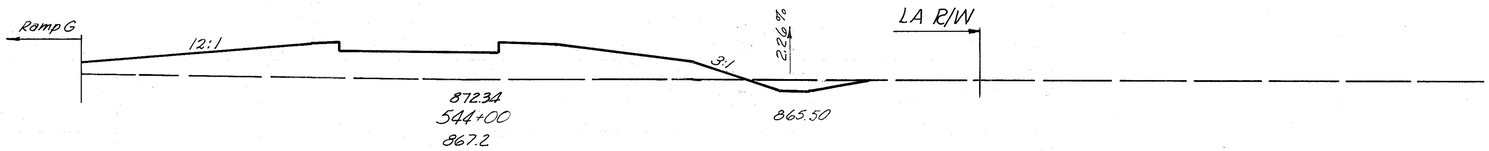
860

18 167



860

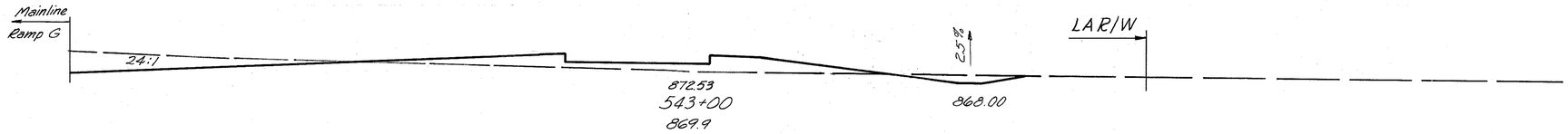
46 574



20 330

860

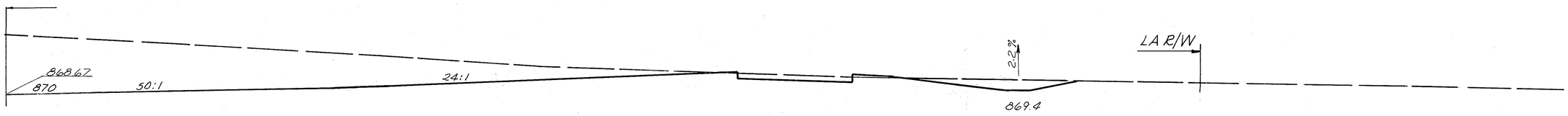
211 807



94 106

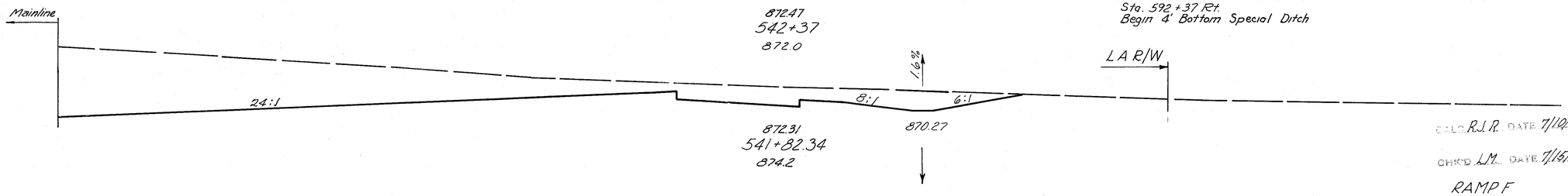
870

1120 126



866 2

1926 2



926 0

870

C.L.O. R.J.R. DATE 7/10/68

CHK'D L.M. DATE 7/15/68

1236 0

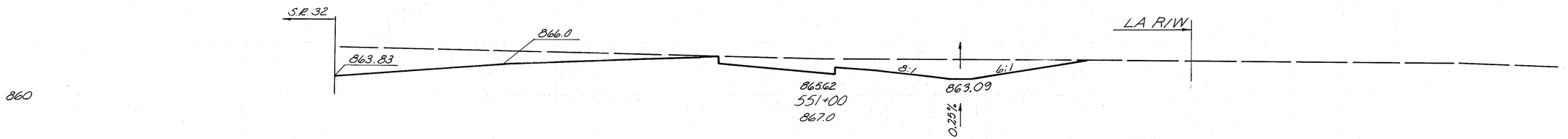
RAMP F
STA 541+82.34 ~ 544+66.41

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140 120 100 80 60 40 20 ℄ 20 40 60 80 100

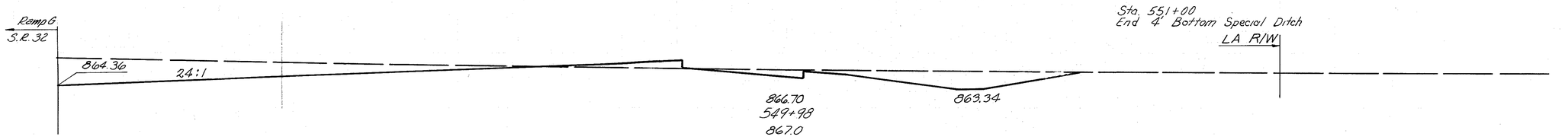
380
638

CLERMONT COUNTY
CLE.-275-6.60



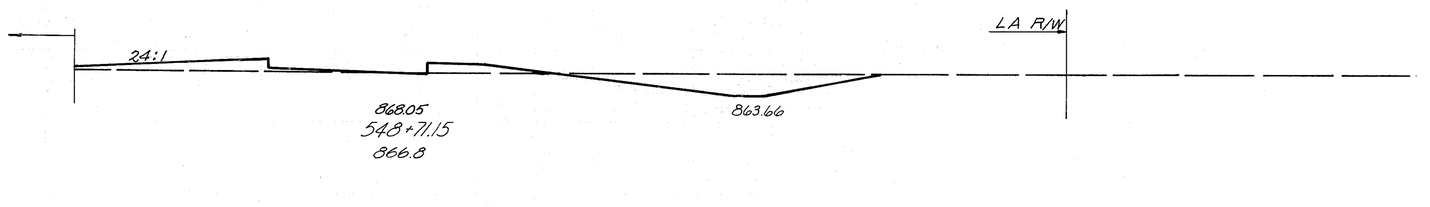
352 0

1392 35



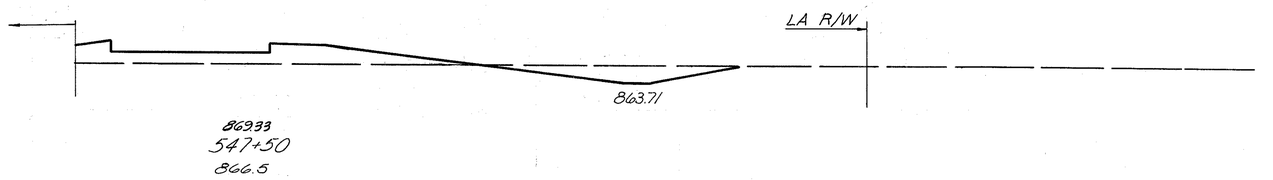
324 18

1037 165



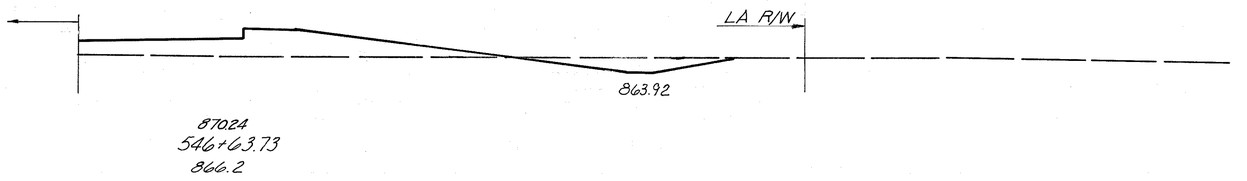
80 50

296 345



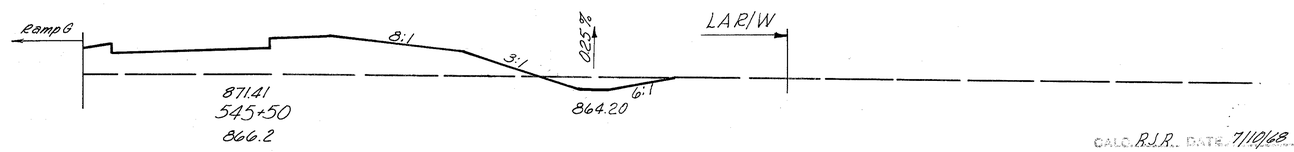
56 102

150 385



38 140

126 805



22 242

77 796

CALC. R.J.R. DATE 7/10/68

CHK'D L.M. DATE 7/15/68

RAMP F
STA 545+50 ~ 551+00

140 120 100 80 60 40 20 ℄ 20 40 60 80 100
120

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

STA. 536+76 - STA. 554+50		
Excavation	27,760	C.Y.
Embankment	4,207	C.Y.

CLERMONT COUNTY
CLE-275-6.68

381
638

860

S.R. 32 — 8:1 — 4:1 — LA R/W

863.53
554+50
866.0

Skewed = 68°11' S.R. 32

LA R/W — 8:1 — 6:1 — Parking Lot — 292 — 452 0 — 208

860

863.81
554+00
865.9

LA R/W — 444 0 — 282

860

864.09
553+50
867.1

LA R/W — 8:1 — 495 0 — BLDG. — 262

860

864.37
553+00
866.8

LA R/W — 12:1 — 280

860

864.65
552+50
867.0

559 0

LA R/W — 18:1 — BLDG. — 326

860

864.93
552+00
867.2

653 0

S.R. 32 — 863.55 — 18:1 — LA R/W — 8:1 — 6:1 — BLDG. — 370

860

865.21
551+50
867.2

CALC. R.J.R. DATE 7/10/68
CHK'D L.M. DATE 7/15/68

694 0

RAMP F
STA. 551+50 ~ 554+50

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120

80 60 40 20 ℄ 20 40 60 80 100 120 140 160

392
638

CLERMONT COUNTY
CLE.-275-6.68

S.R. 32

8:1

8:1

860

866.43
537+00
872.4

Sta. 536+55 Rt.
End 667 Jute Matting 7'-6" Wide

870

Match Line

Mainline

Match Line

200

220

1466 0

3932 0

860

865.95
536+00
869.4

812 0

860

865.90
534+28.92
864.6

8:1

868.0

Ramp G Sta. 534+74, 25' Lt.
604 Std. No. 1 M.H.
Top Elev. = 867.57
Inv. 24" = 857.25
Inv. 30" = 855.50
Inv. 33" = 855.25

865.71
535+50
862.7

Sta. 534+90, 25' Rt.
604 Std. No. 4 C.B.
℄ Grate = 862.75
Inv. 27" = 856.65
Inv. 30" = 856.36

866.0

865.60
535+00
865.9

Ø27" Conduit

Sta 534+95 Rt.
Begin 667 Jute Matting 7'-6" Wide

Sta. 534+85 Rt.
End 667 Jute Matting 7'-6" Wide

S.R. 32

868.0

870.0

Mainline

8:1

4' Bottom Special Ditch
Cont. from SR. 32

Sta. 533+54 Rt.
Begin 667 Jute Matting 7'-6" Wide

Ø24" Conduit

868.0

94 118

187 266

120 208

186 635

26 356

Note: Volumes of Cross Sections Sta. 534+28.92 to Sta. 547+29.57 Inclusive have been corrected for curvature by the method shown on Sht. No. 22

779 108

CALC L.M. DATE 7/28/68

CHKD. SCZ DATE 8/1/68

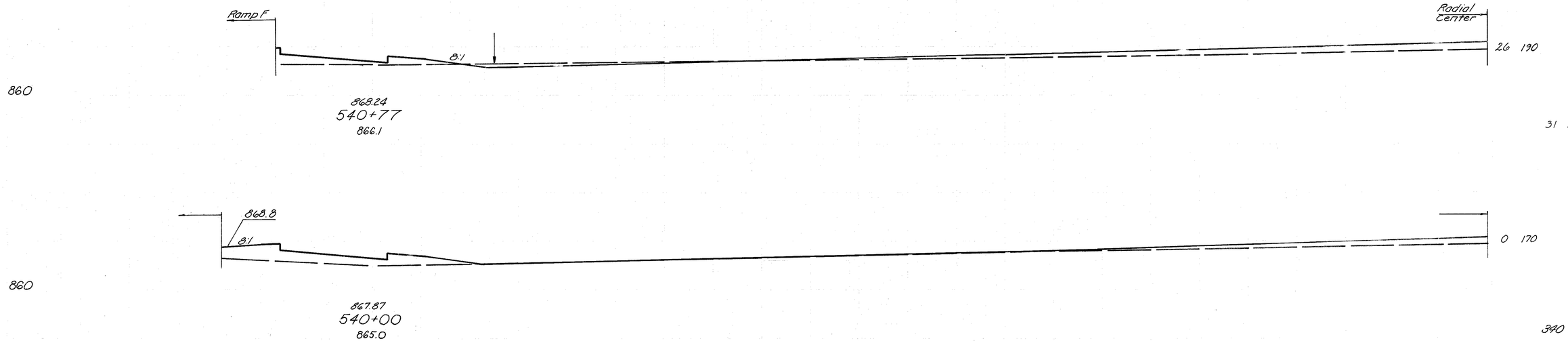
RAMP G
STA. 534+28.92 ~ STA. 537+00

80 60 40 20 ℄ 20 40 60 80 100 120 140 160 180

60 40 20 ℄ 20 40 60 80 100 120 140 160 180

383
638

CLERMONT COUNTY
CLE.-275-6.68



CALC. LM DATE 2/28/68

CHK'D SCZ. DATE 8/1/68

4550 3

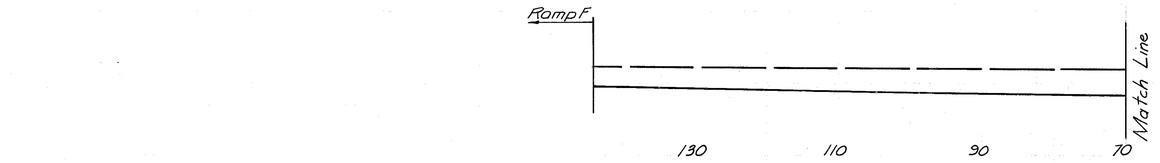
60 40 20 ℄ 20 40 60 80 100 120 140 160 180

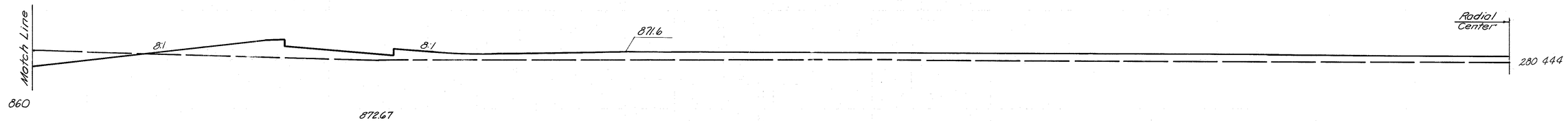
RAMP G
STA. 538+00 ~ STA. 540+77
200 220

60 40 20 ℄ 20 40 60 80 100 120 140 160 180

384
638

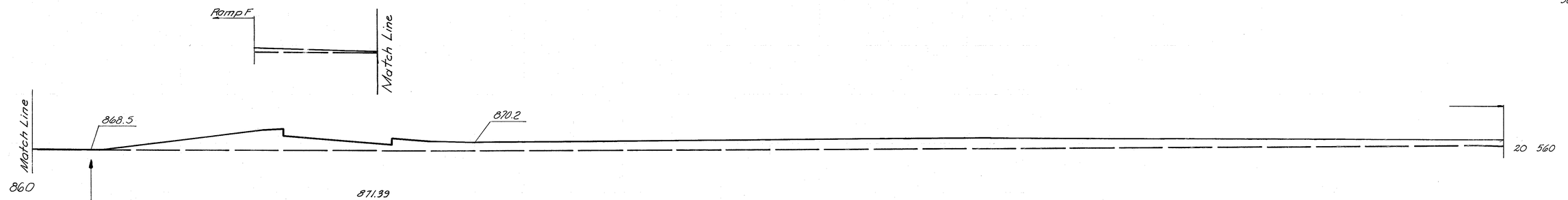
CLERMONT COUNTY
CLE.-275-6.68





872.67
543+50
870.2

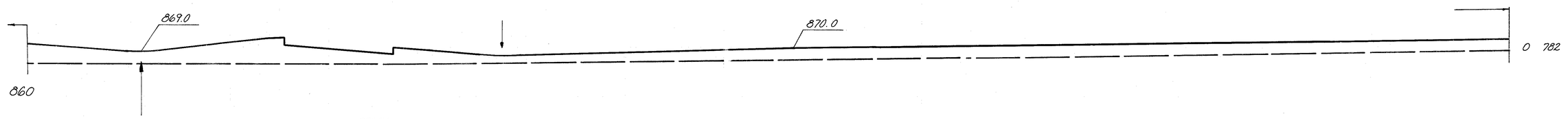
369 896



871.39
543+00
868.7

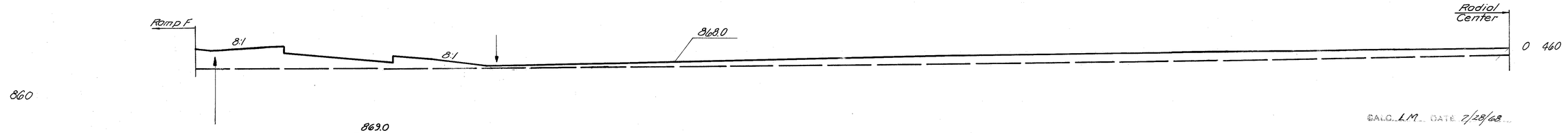
Sta. 542+75
End 4' Bottom Ditch

25 1202



870.24
542+50
866.9

0 1666



869.0
541+75
866.7

CALC. LM DATE 7/28/68

CHK'D SCZ DATE 8/1/68

39 844

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

RAMP G
STA. 541+75 ~ STA. 543+50

60 40 20 ℄ 20 40 60 80 100 120 140 160 180

385
638

CLERMONT COUNTY
CLE.-275-6.68

Main Line

878.0

Ramp G

0 526

880.35
546+50
874.8

27" Conduit

860

0 867

8:1 8:1

Radial
Center

0 248

27" Conduit

860

878.55
545+79.57
877.4

586 318

874.0

874.0

870

336 200

27" Conduit

876.51
545+00
877.8

Main Line

Sta. 543+88 116' Lt. Ramp "G"
604 Std. # 5CB
R. Grate Elev. = 867.50
Inv. 18" = 864.05
Inv. 27" = 863.30

Match Line

870

4172 381

160 140 120 100 80 60

Match Line

8:1

872.0

Radial
Center

1214 368

27" Conduit

860

CALC. L.M. DATE 7/22/68

CHK'D. S.C.Z. DATE 8/1/68

2087 529

873.95
544+00
873.7

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

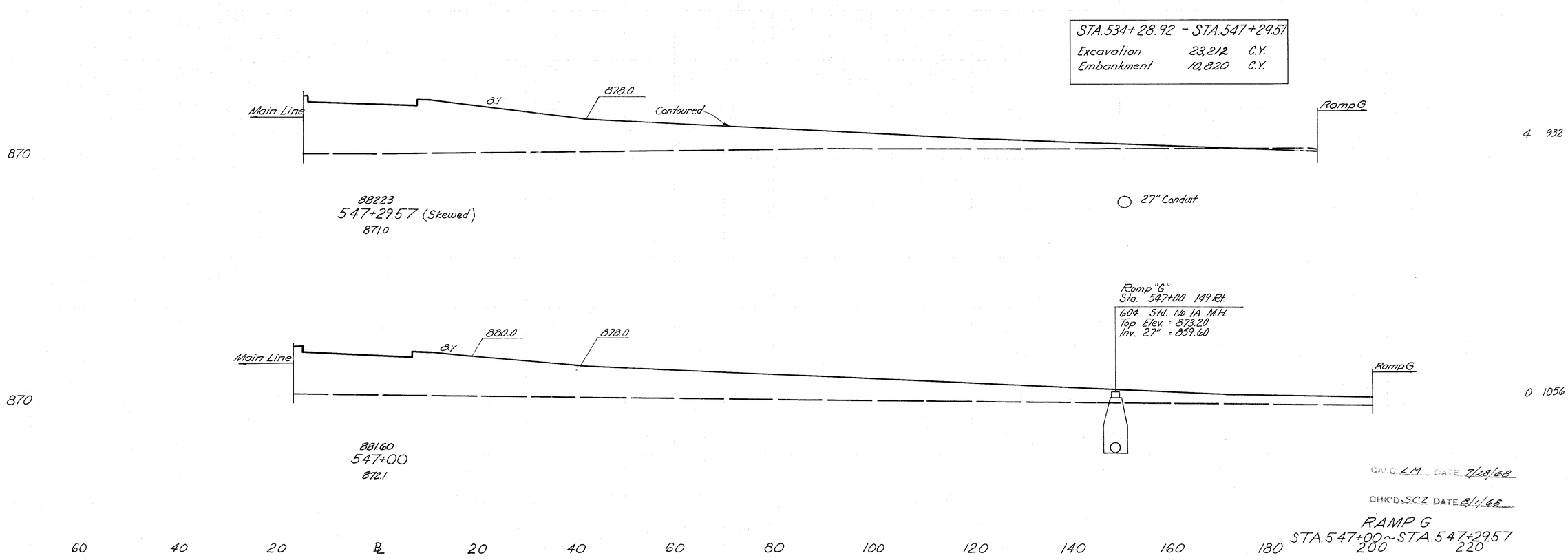
RAMP G
STA. 544+00 ~ 546+50

60 40 20 ℄ 20 40 60 80 100 120 140 160 180

386
638

CLERMONT COUNTY
CLE.-275-6.68

STA. 534+28.92 – STA. 547+29.57		
Excavation	23,212	C.Y.
Embankment	10,820	C.Y.



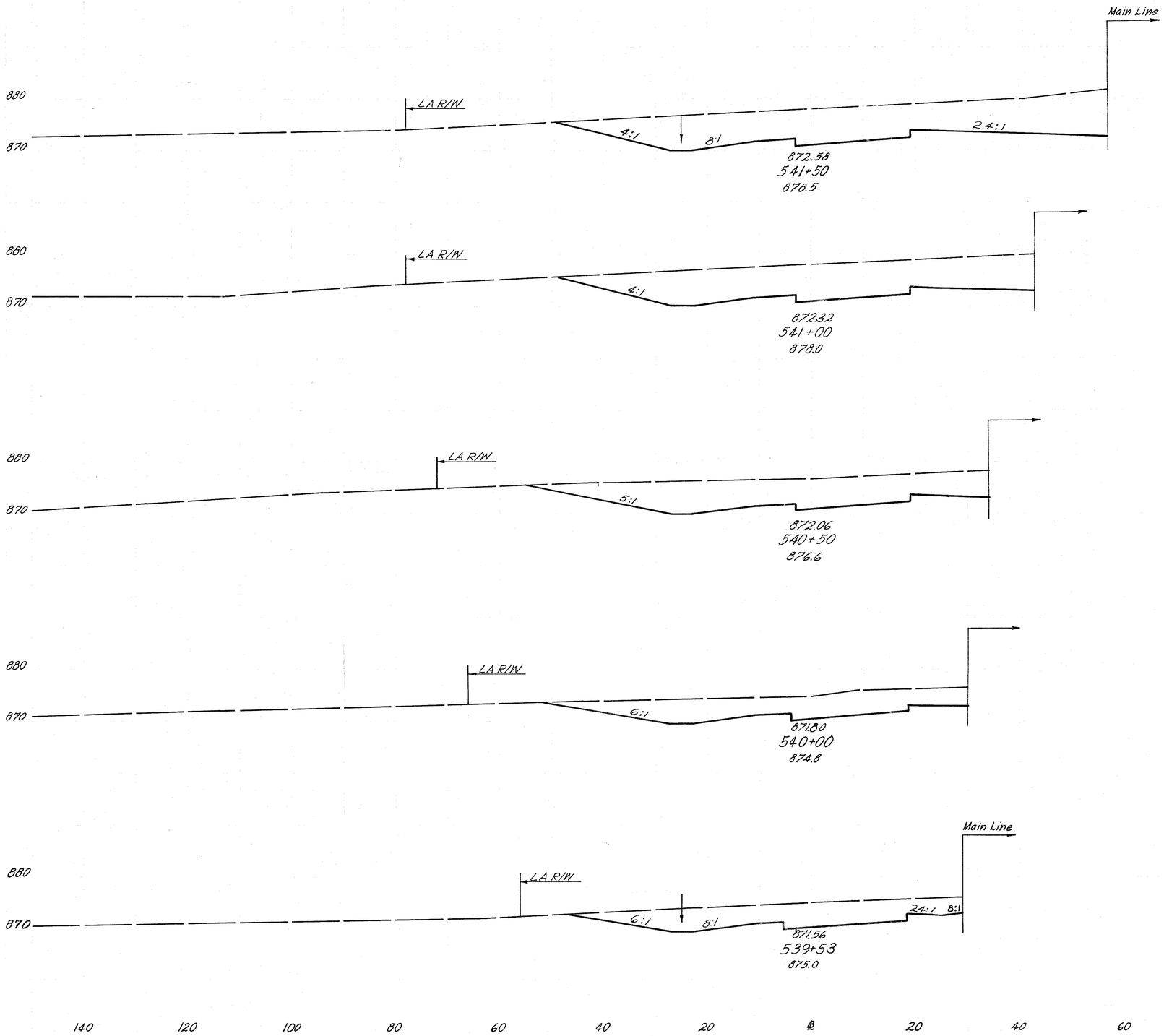
CALC. L.M. DATE 7/28/68

CHK'D. S.C.Z. DATE 8/1/68

RAMP G
STA. 547+00 ~ STA. 547+29.57

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

CLERMONT COUNTY
CLE.-275-6.68



Note: Volumes of Cross Sections Sta. 539+53 to Sta. 543+68 & Sta. 547+73 to Sta. 554+60 inclusive have been corrected for curvature by the method shown on Sht. No.22

387	
638	
	627 0
	1081 0
	524 0
	873 0
	420 0
	657 0
	295 0
	495 0
	275 0

CALC. LM DATE 7/28/68

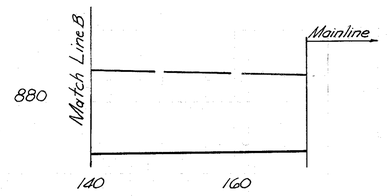
CHK'D SCZ DATE 8/1/68

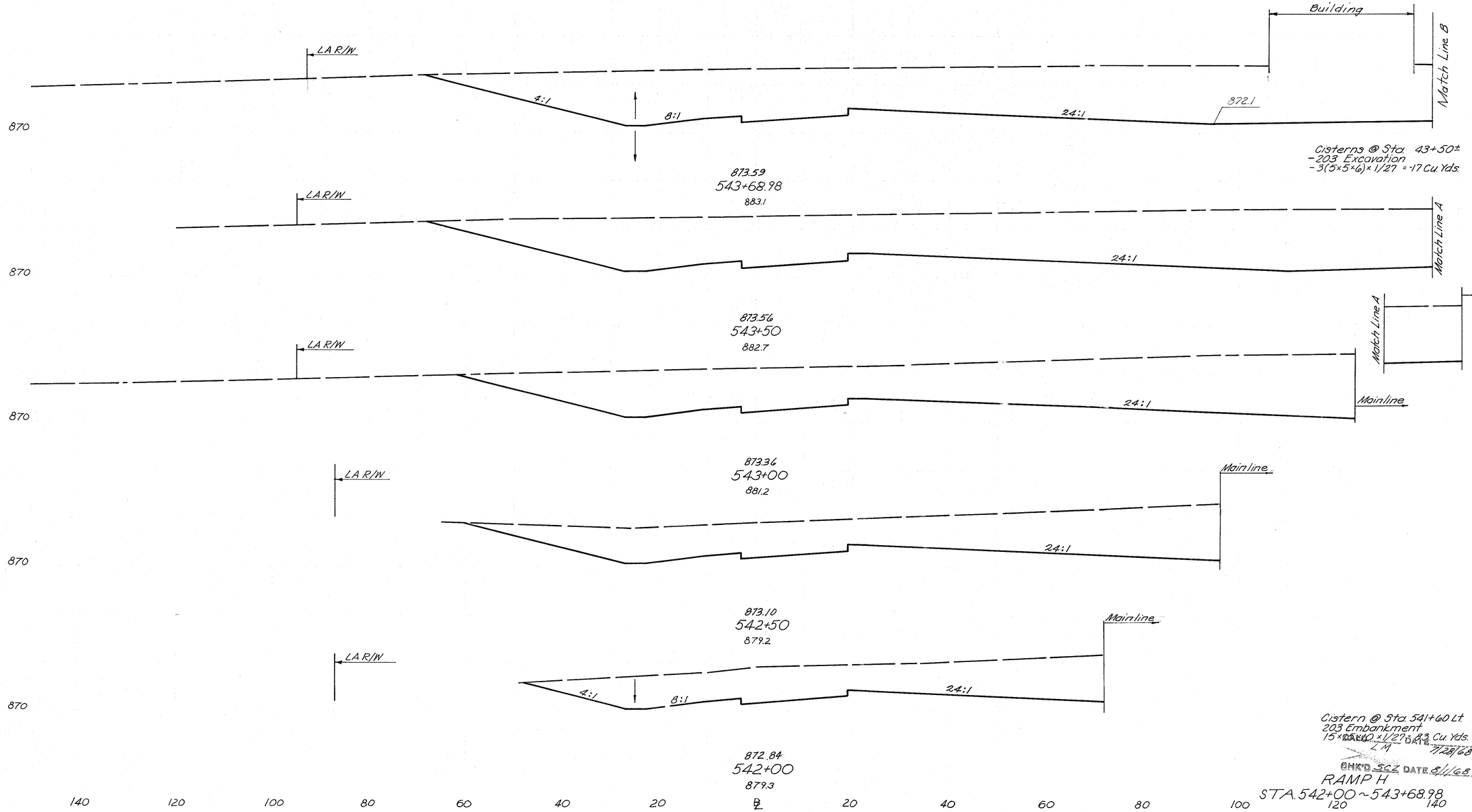
RAMP H
STA. 539+53 ~ STA. 541+50

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

388
638

CLERMONT COUNTY
CLE.-275-6.68





2372 0
1148 0
-17
2195 0
2608 0
1637 0
2363 0
1084 0
1690 0
778 0
+83
1329

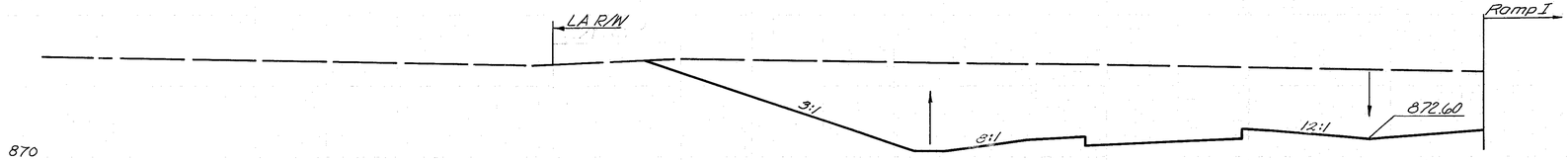
CHK'D SCZ DATE 8/1/68

RAMP H
STA. 542+00 ~ 543+68.98

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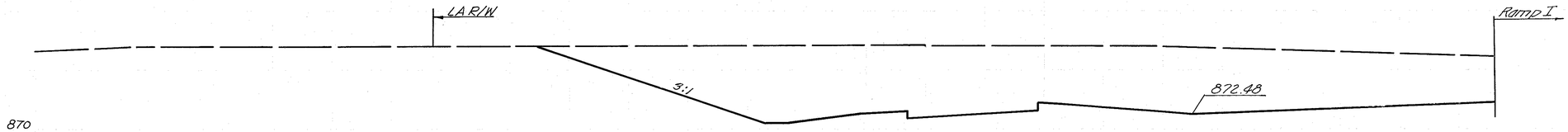
CLERMONT COUNTY
CLE.-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



873.08
545+50
883.0

1064 0

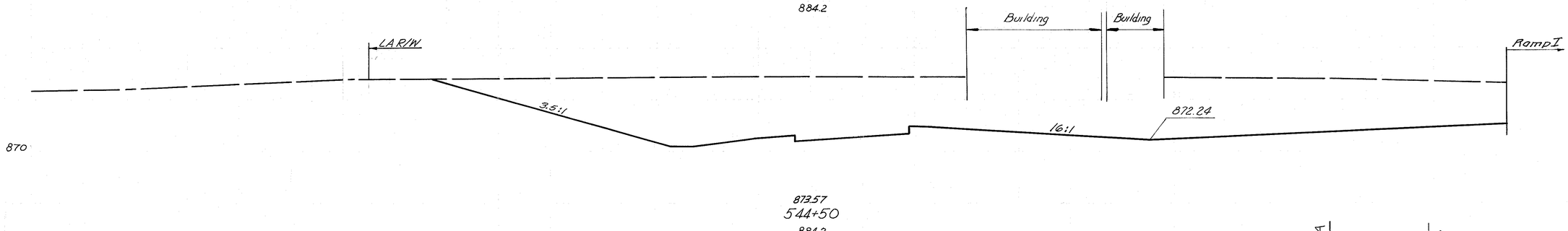


873.39
545+00
884.2

2433 0

1564 0

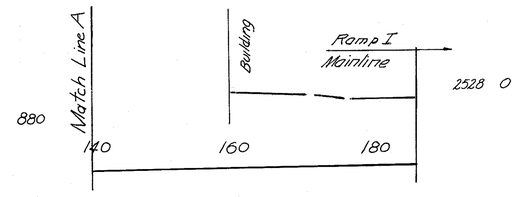
3360



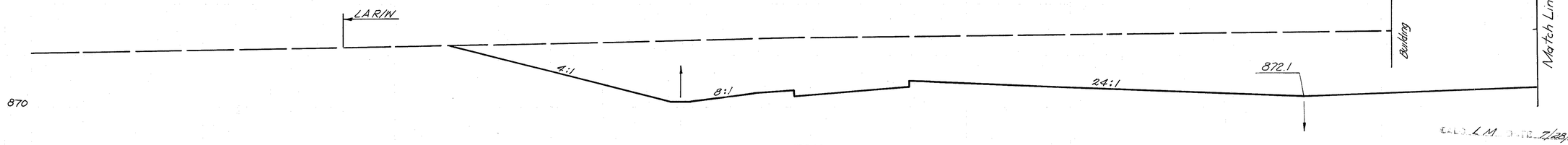
873.57
544+50
884.3

2065 0

5444 0



2528 0



873.62
543+86.5
883.3

716 0

CHK'D. LM DATE 7/29/68

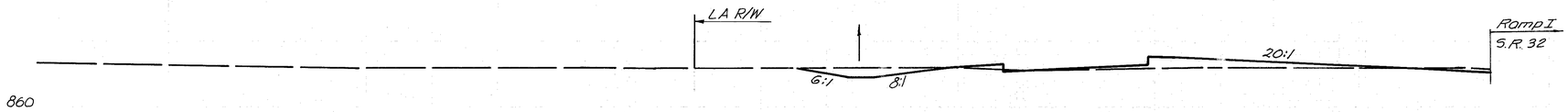
CHK'D. SCZ DATE 8/1/68

RAMP H
STA. 543+86.5 ~ STA. 545+50

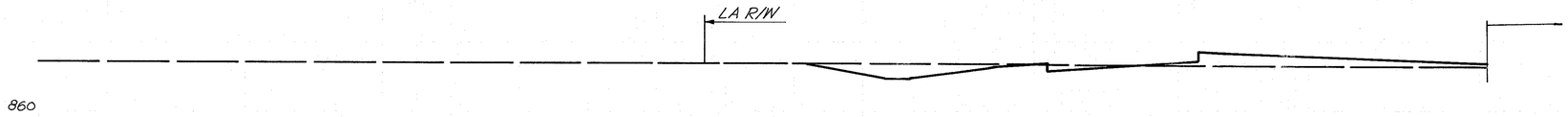
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140 120 100 80 60 40 20 ℄ 20 40 60 80 100

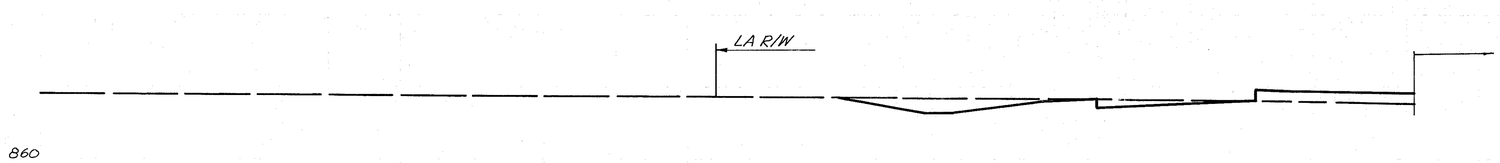
CLERMONT COUNTY
CLE.-275-6.68



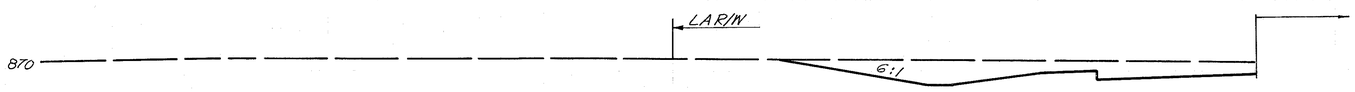
886.66
549+50
865.9



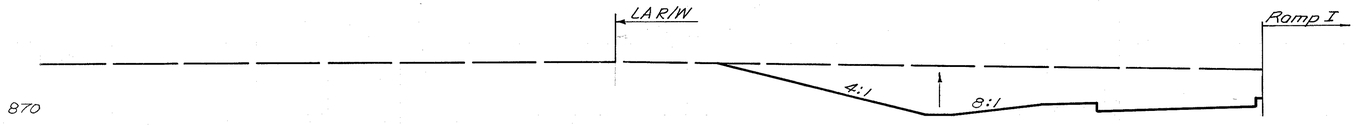
867.16
549+24.25
866.6



868.66
548+50
868.4



870.23
547+73
871.2



871.93
546+62.5
876.8

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

390
638
22 38
33 129
44 58
130 76
50 32
267 46
137 0
950 0
371 0
2709 0

CALC. L.M. DATE 7/22/68
DRWD. SCZ DATE 8/1/68

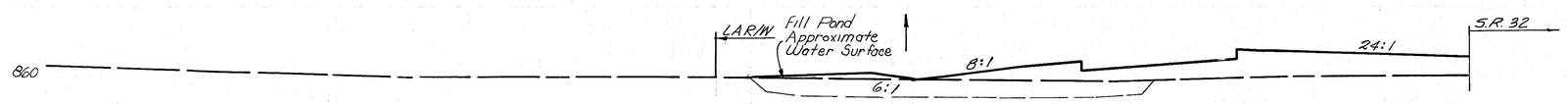
RAMP H
STA. 546+62.5 ~ STA. 549+50

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

391
638

CLERMONT COUNTY
CLE-275-6.68

203 Embankment to fill pond
(Area rolled) 1925 × 3/27 = 214 Cu. Yds.

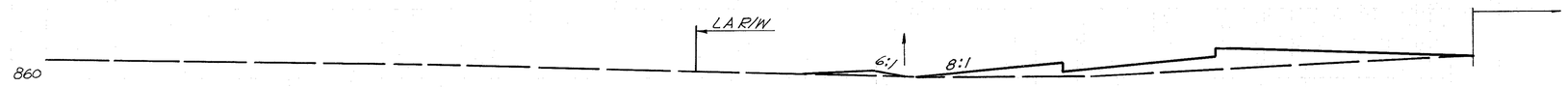


+214

0 204

862.33
551+75
859.5

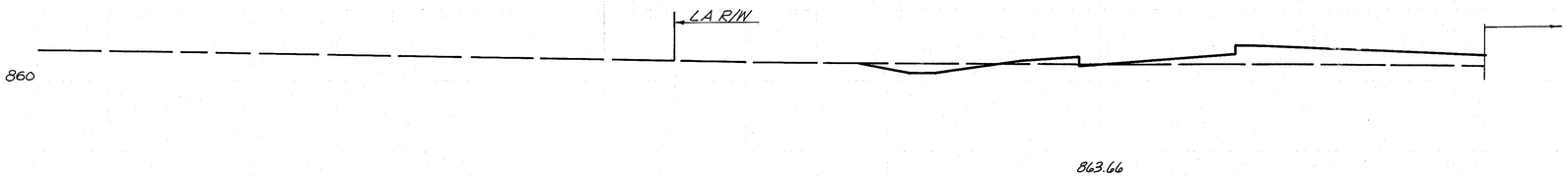
0 147



0 122

862.72
551+50
860.3

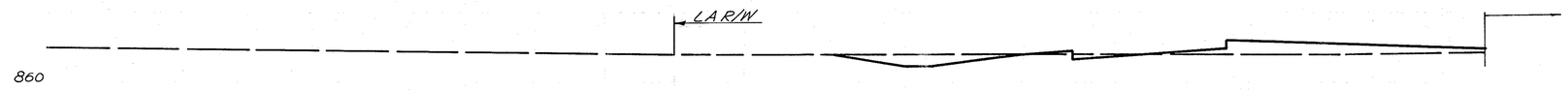
14 195



14 96

863.66
551+00
862.4

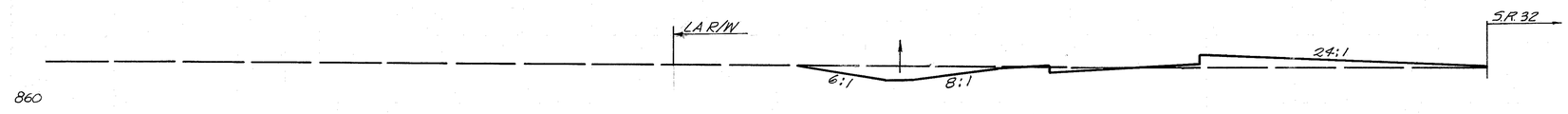
44 132



32 54

864.66
550+50
864.0

73 90



45 48

865.66
550+00
865.1

CALC. L.M. DATE 7/28/68
CHK'D. SCZ DATE 8/1/68

64 76

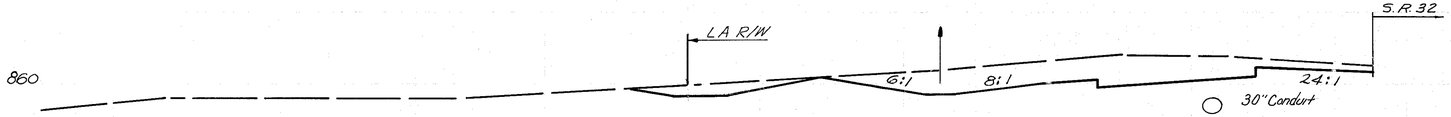
RAMP H
STA. 550+00 ~ STA. 551+75

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

392
638

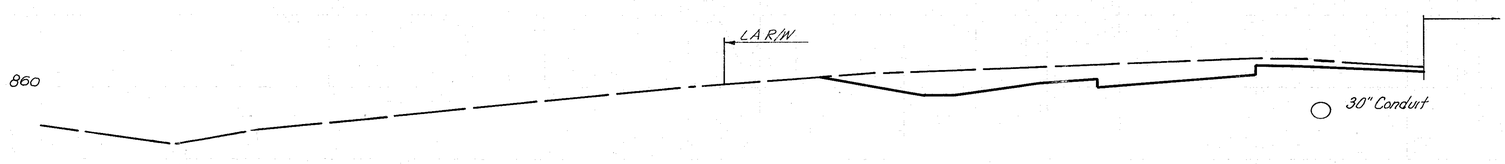
CLERMONT COUNTY
CLE-275-6.68



860.87
553+50
864.0

230 0

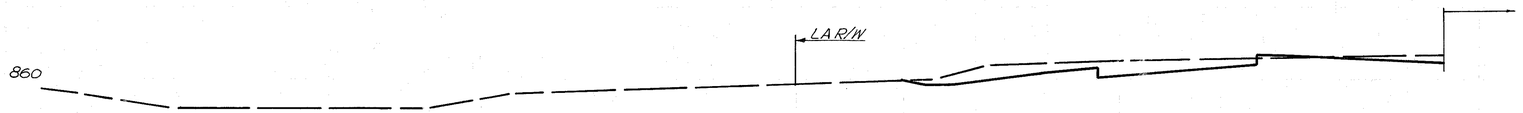
361 0



861.33
553+00
863.2

164 0

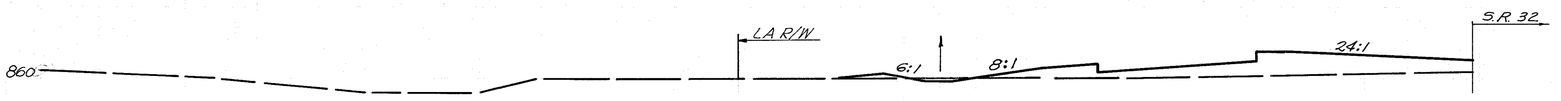
221 1



861.72
552+50
862.5

76 2

72 124



862.04
552+00
860.2

2 138

1 117

CALC L.M. DATE 7/28/68

CHK'D SCZ DATE 8/1/68

RAMP H
STA. 552+00 ~ STA. 553+50

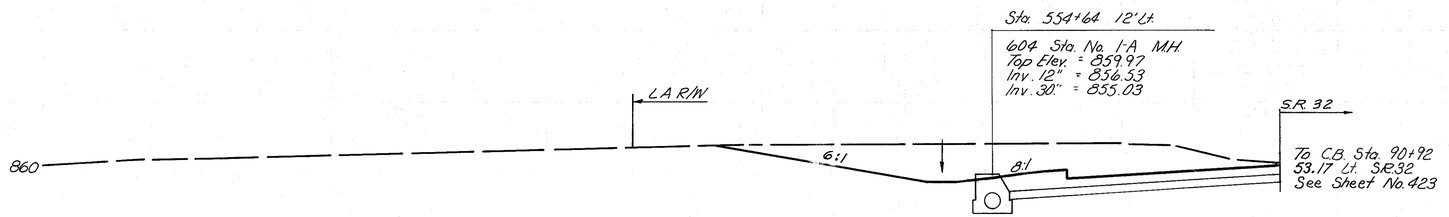
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

393
638

CLERMONT COUNTY
CLE-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

STA. 539+53 - STA. 554+60		
Excavation	30,211	C.Y.
Embankment	1430	C.Y.



262

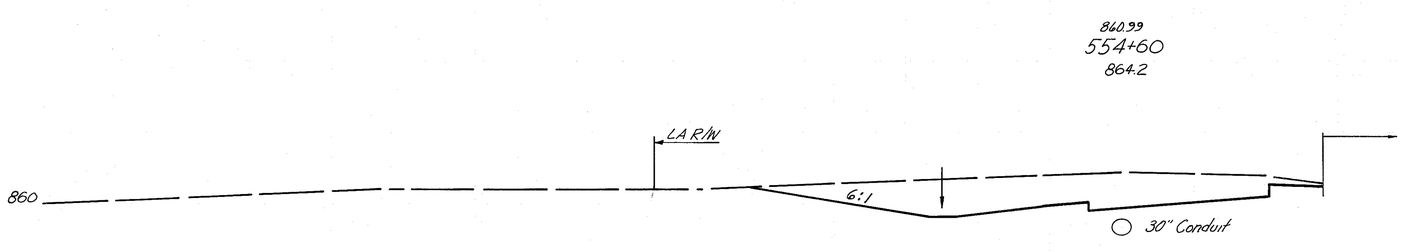
618 0

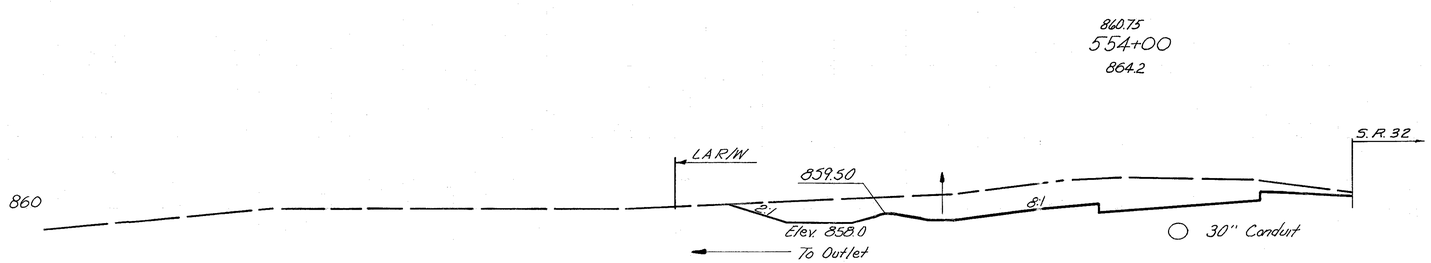
294

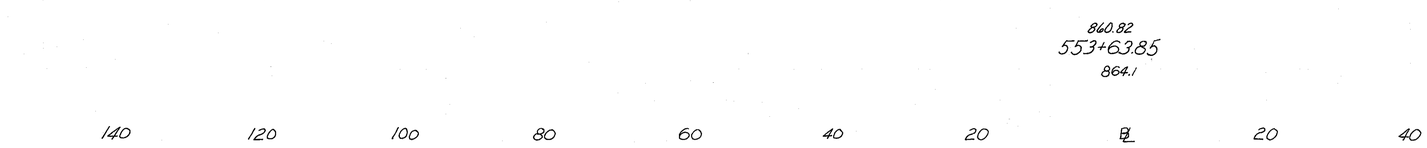
367 0

261

117 0







CALC. L.N. DATE 7/28/68

CHKD. J.C.Z. DATE 8/1/68

RAMP H
STA. 553+63.86 ~ STA. 554+60

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

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

394
638

CLERMONT COUNTY
CLE-275-6.68

860 Radial Center

8:1

24:1

Match Line

545 0

Ramp H
S. R. 32

865.2

860 Match Line

60 80

Sta. 539+81 Lt.
End 667 Jute Matting 7'-6" Wide

865.87
540+00
867.2

1298 0

860

452 11

864.3
539+00
865.0

614 22

S. R. 32

860

24:1

530 13

863.89
538+50
864.9

30" Conduit
To C.B. Sta. 87+82
93' Lt. S.R. 32.

Sta. 538+07 Lt.
Begin 667 Jute Matting 7'-6" Wide

Sta. 537+93 Lt.
End 667 Jute Matting 7'-6" Wide

840 19

Note: Volumes of Cross Sections Sta. 537+30 to Sta. 547+31.10 Inclusive have been corrected for curvature by the method shown on Sht. No. 22

Sta. 538+00 25' Lt.

604 Std. No. 4 C.B.
℄ Grate = 861.08
Inv. 30" = 857.60

460 2

860

12:1

To CB Sta. 87+82, 93' Lt. S.R. 32

863.75
537+80
864.9

552 9

860 Radial Center

S. R. 32

8:1

354 8

863.95
537+30
865.2

Sta. 536+33 Lt.
Begin Jute Matting 7'-6" Wide

For Continuation of 667 Jute Matting 7'-6" Wide See S.R.-32 X-Sections Sht. No. 366

CALC. L.M. DATE 7/28/68

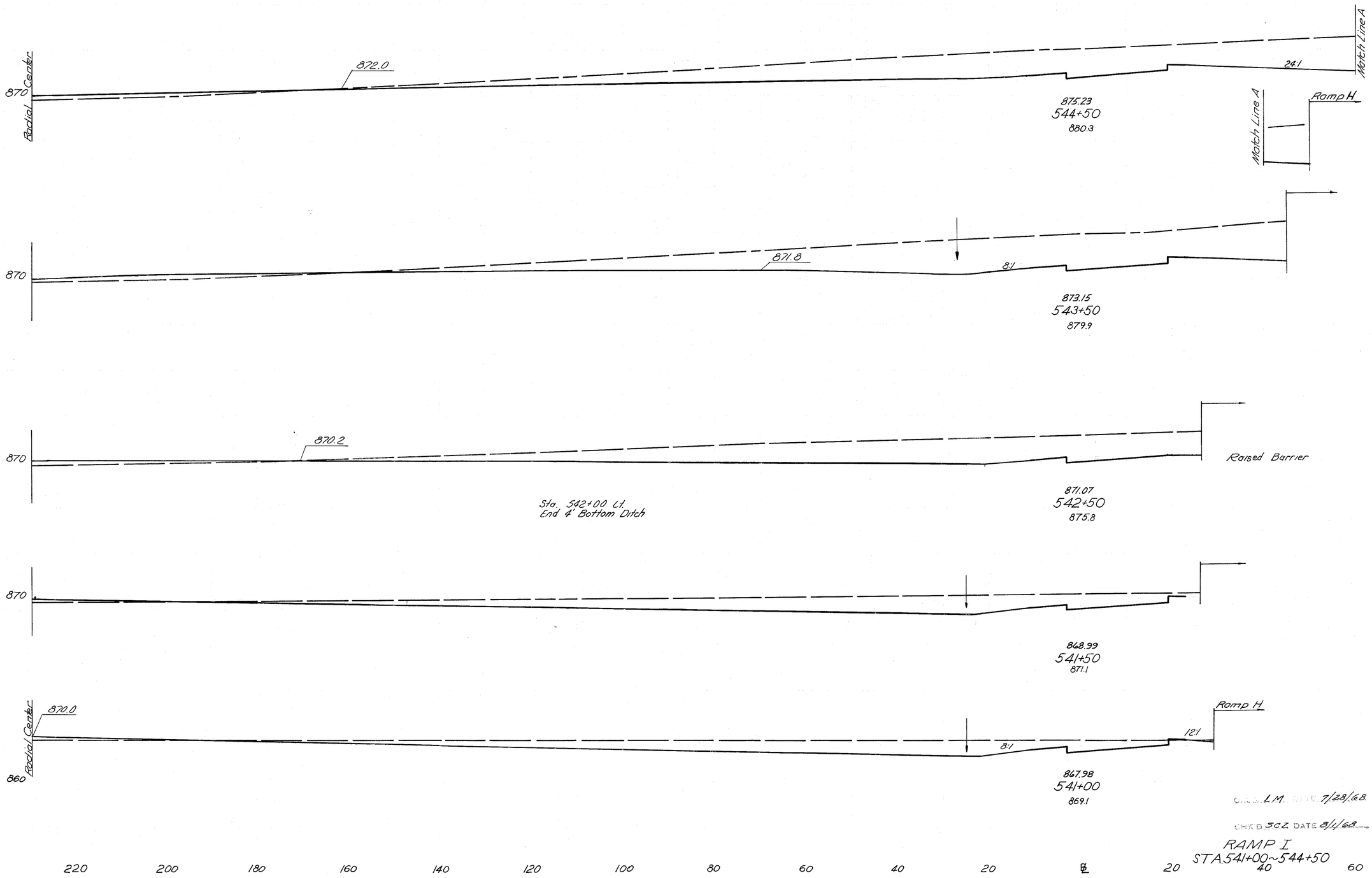
CHK'D SCZ. DATE 8/1/68

RAMP I
STA. 537+30 ~ 540+00

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

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

CLERMONT COUNTY
CLE.-275-6.68



385
638

933 40

2670 20

947 60

700 35

1735 6

495 10

615 1

400 15

1233 13

2606 20

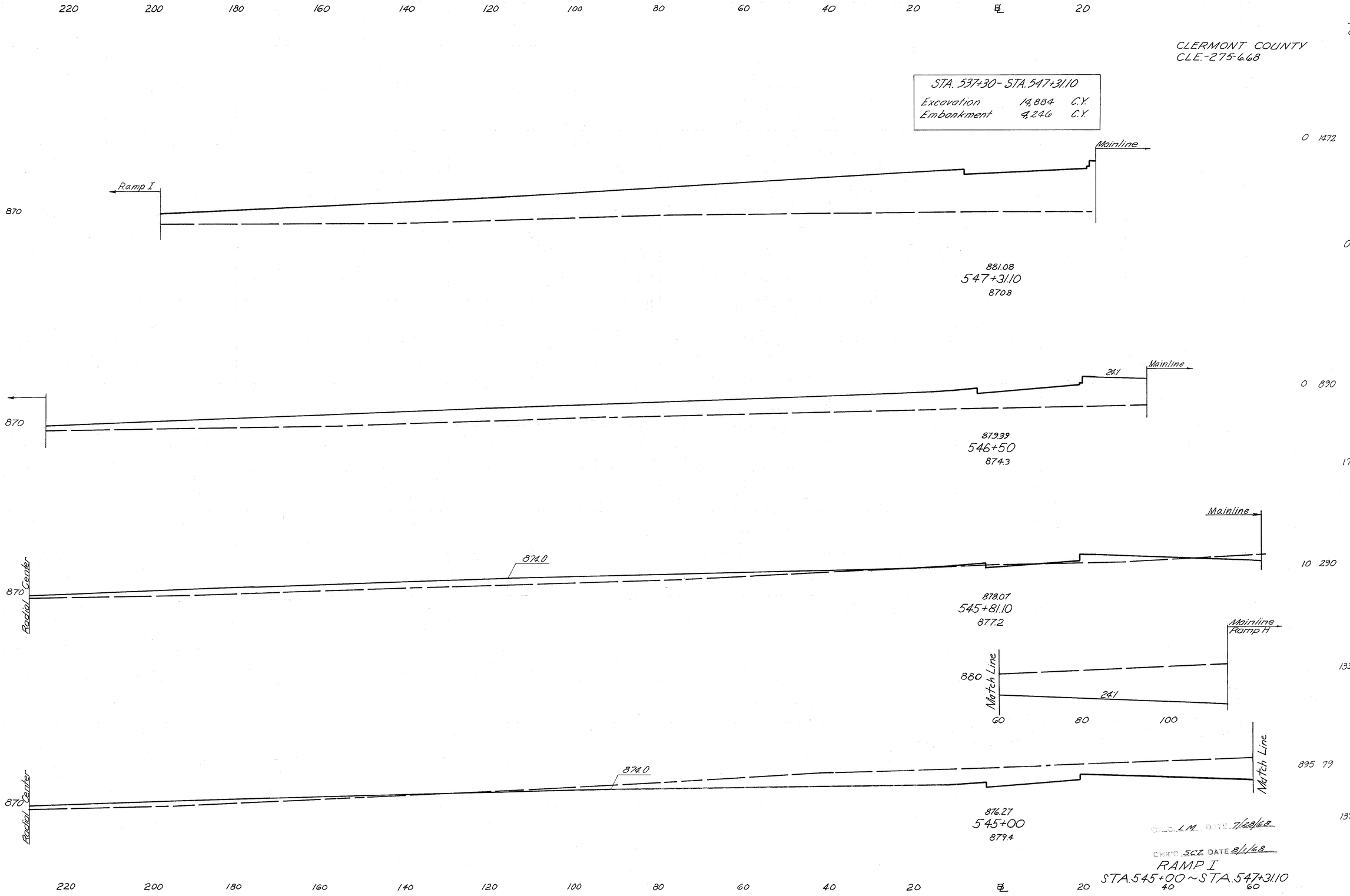
CHKD. SCL DATE 8/1/68

RAMP I
STA.541+00~544+50

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

CLERMONT COUNTY
CLE.-275-6.68

STA. 537+30 - STA. 547+31.10		
Excavation	14,884	C.Y.
Embankment	4,246	C.Y.



CHKD. L.M. DATE 7/28/68

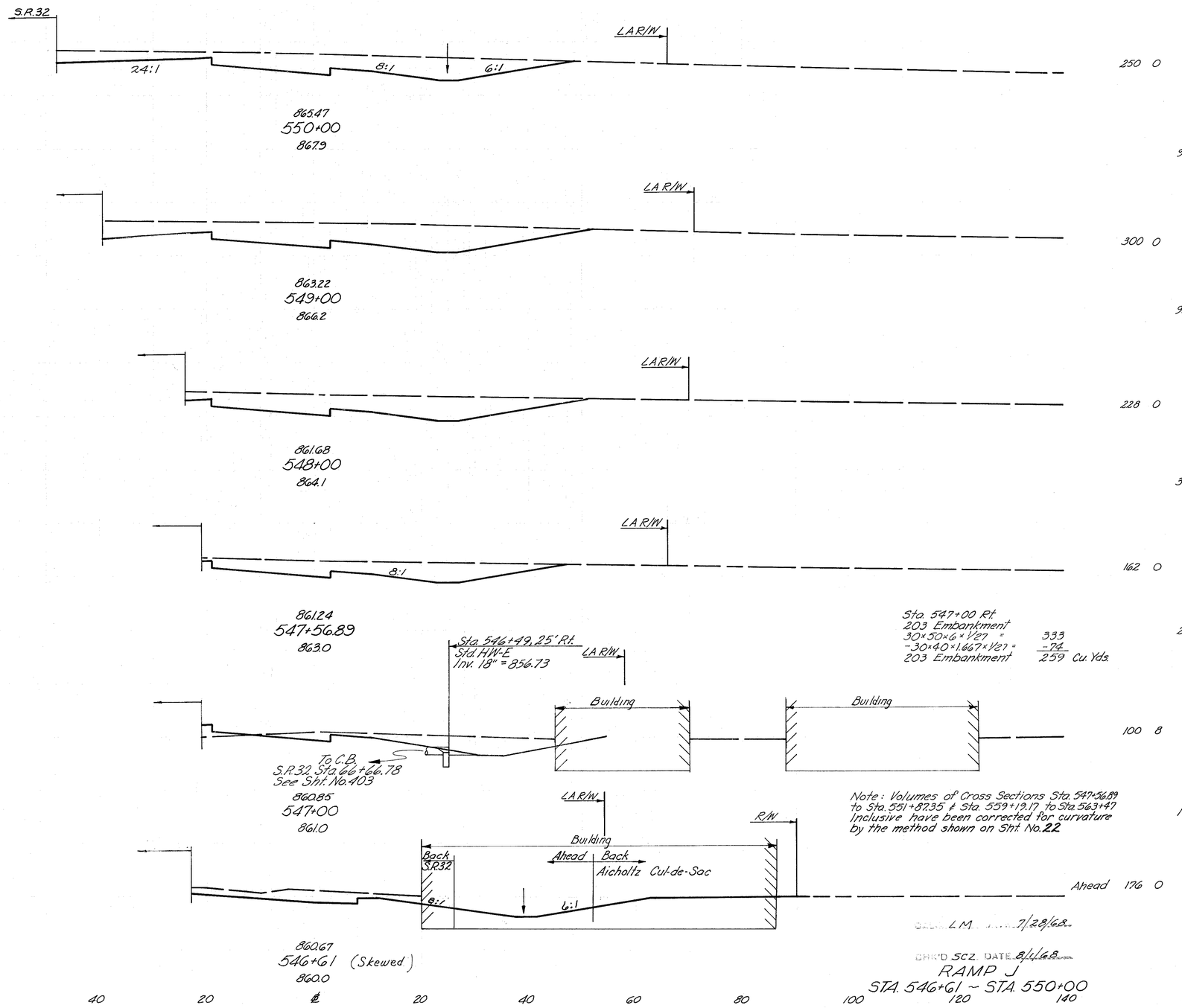
CHKD. SCZ DATE 8/1/68

RAMP I
STA. 545+00 ~ STA. 547+31.10

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

397
638

CLERMONT COUNTY
CLE.-275-6.68



CALC'D LM DATE 7/28/68

DRN'D SCZ. DATE 8/4/68

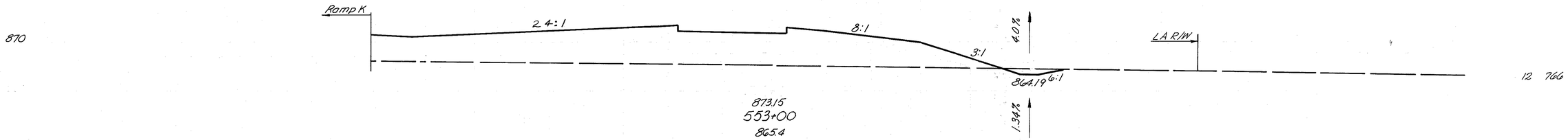
RAMP J
STA. 546+61 ~ STA. 550+00

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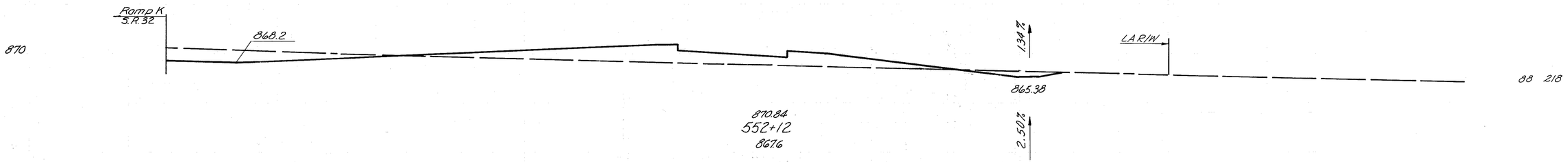
140 120 100 80 60 40 20 ℄ 20 40 60 80 100

398
638

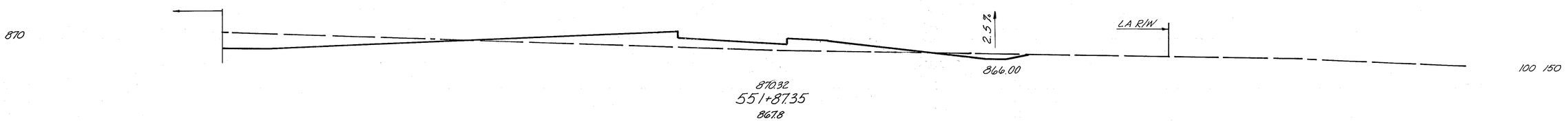
CLERMONT COUNTY
CLE-275-6.68



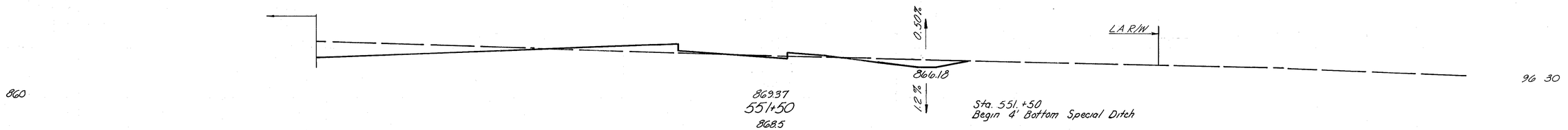
163 1604



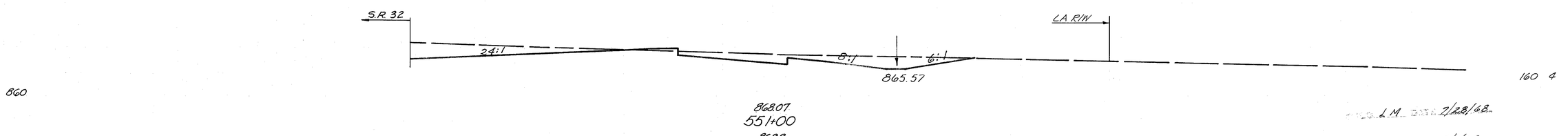
92 172



151 127



250 32



756 8

L M DATE 2/28/68

SCZ DATE 3/1/68

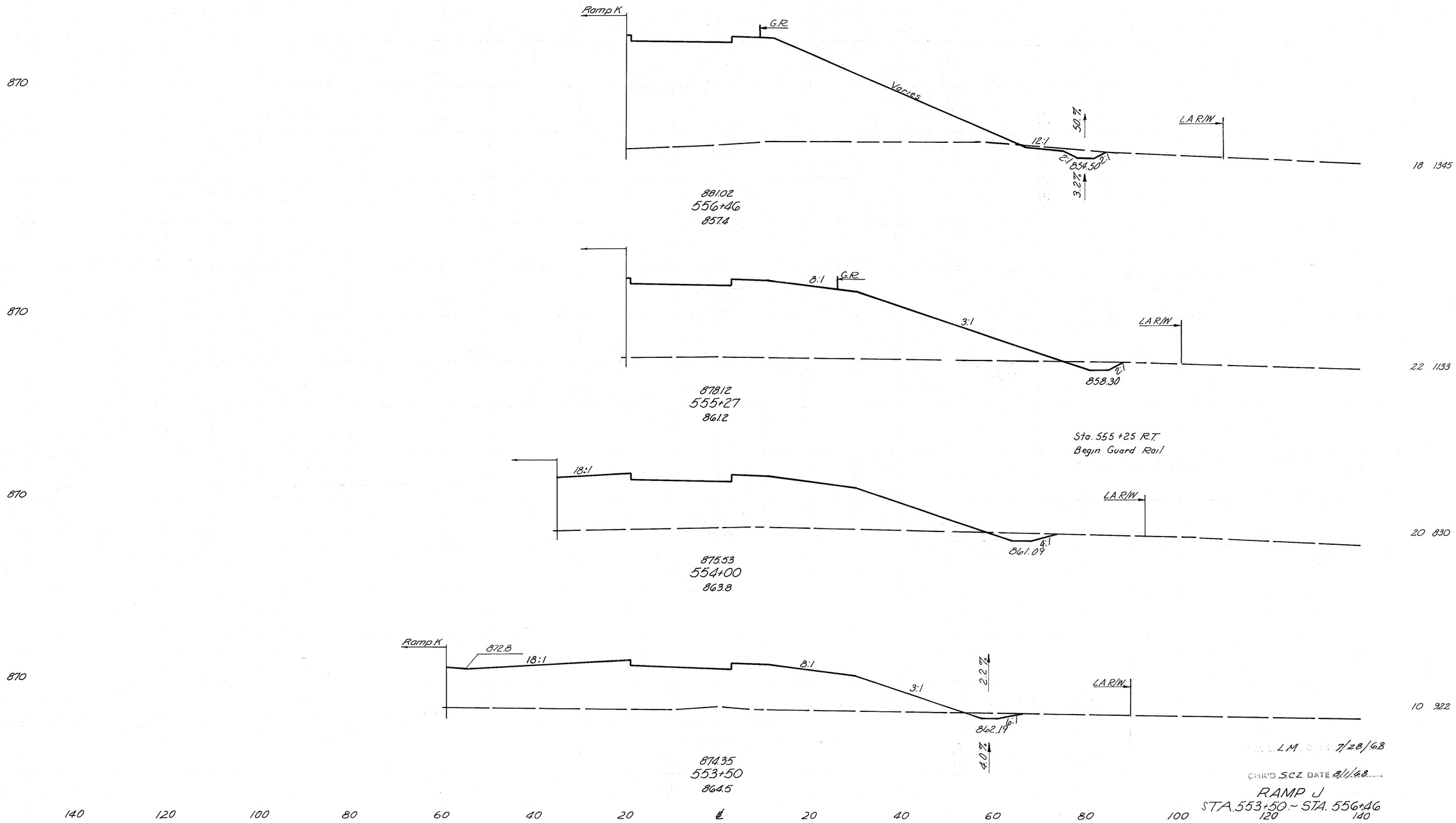
RAMP J
STA. 551+00 ~ STA. 553+00

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

399
G38

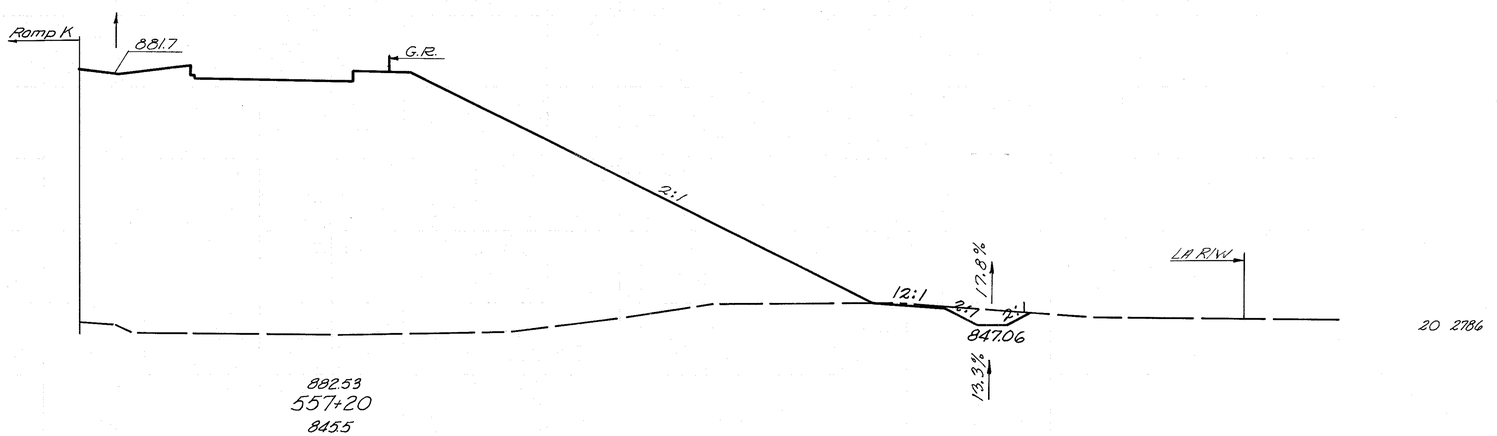
CLERMONT COUNTY
CLE.-275-G6.8



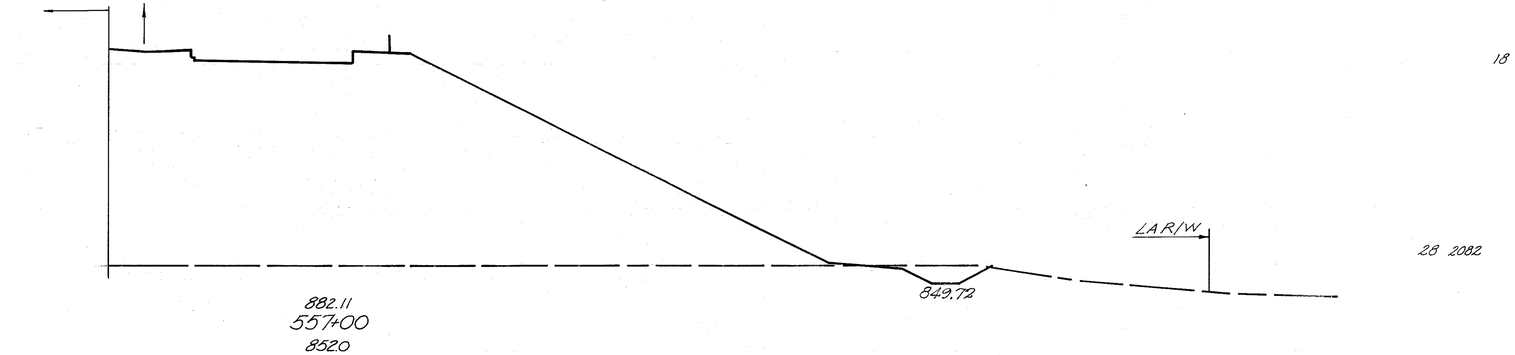
140 120 100 80 60 40 20 ℄ 20 40 60 80 100

400
638

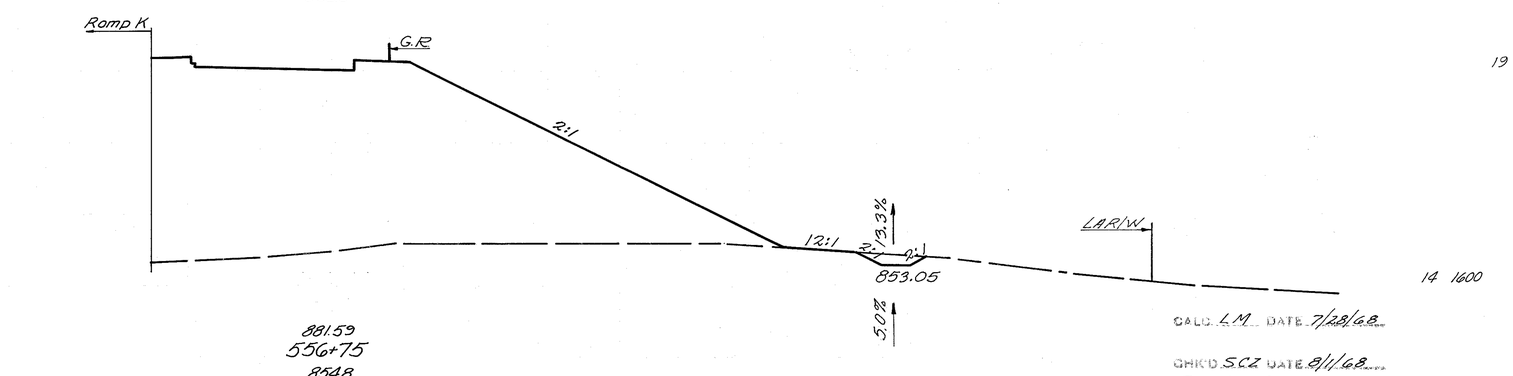
CLERMONT COUNTY
CLE-275-6.68



870



870



CALC. LM DATE 7/28/68

CHK'D SCZ DATE 8/1/68

RAMP J
STA. 556+75 ~ 557+20

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

880

Ramp K

882.0 880.5 882.0 12:1

G.R.

2:1

Sta. 558+15
Begin 4' Bottom Special Ditch
Begin 601 Rock Channel Protection Type B 6'×2'-0"
Sta. 558+10
End 4' Bottom Special Ditch

CLERMONT COUNTY
CLE-275-668

Back
Ahead
203 Excavation
Excavation Detail Sht. 7

LA R/W 155 Rt.

846.5
840.5

Ahead 0 5828
Back 0 5866

88430
558+10
842.1

880

882.0 880.7 882.0 10:1

Sta. 558+02 97' Rt.
Culvert Outlet
Inv. 840.24

60% 100%

Ramp J Sta. 558+02, 203
Excavation Not Including
Embankment Construction
From Sheet No. 467

Ramp J Sta. 558+02, 203
Embankment From
Sheet No. 467

Ahead
Back
203 Excavation
See Sht. No.

LA R/W 152' Rt.

840.5

88411
558+00
842.0

48" Conduit

Sta. 557+97
Begin 601 Rock Channel Protection Type B, 8'×3'-0"

6.0%

880

Ramp K 881.6 8:1

G.R.

2:1

Back Only

Sta 557+90
Ditch Rt. Sta. 557+40

Sta. 557+90 Back Ditch

Back
Ahead Sta. 558+00
Ahead Ditch

To Sta. 557+90 Ahead Ditch
Ahead
Back

LA R/W

12:1 2:1 2:1

343.5

48" Conduit

12.9%

882.93
557+40
843.8

GALO. L.M. DATE 7/28/68.

CHK'D S.C.Z. DATE 8/1/68.

RAMP J
STA. 557+40 ~ STA. 558+10

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

401
638

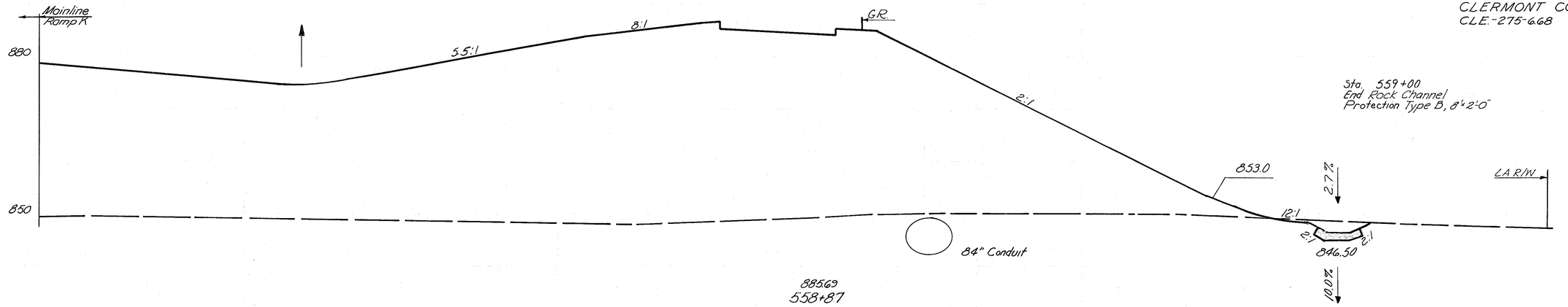
0 5828
0 5866
0 2109
0 5522
0 9760
14 75
33 69
22 0
0 3262
22 3262
16 2667

9
15

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

402
638

CLERMONT COUNTY
CLE.-275-6.68



Sta. 559+00
End Rock Channel
Protection Type B, 8'x2'-0"

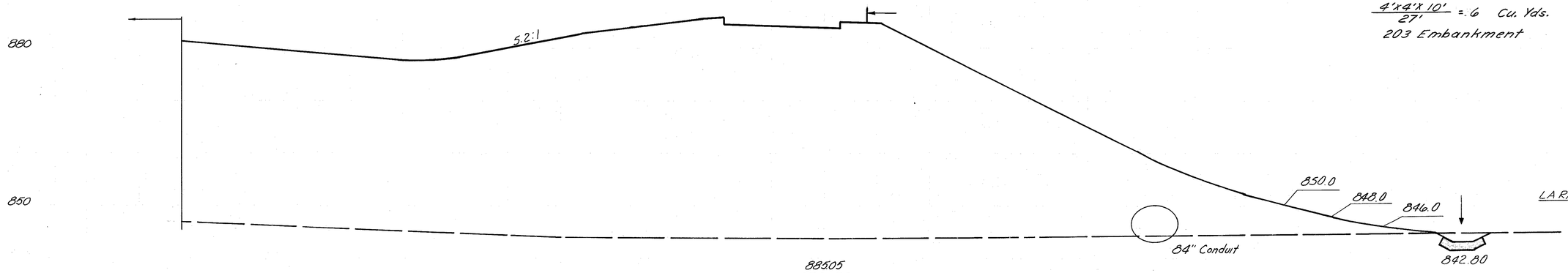
26 6234

88569
558+87
849.5

Well @ Sta. 558+52 Lt.
$\frac{4' \times 4' \times 10'}{27'}$ = .6 Cu. Yds.
203 Embankment

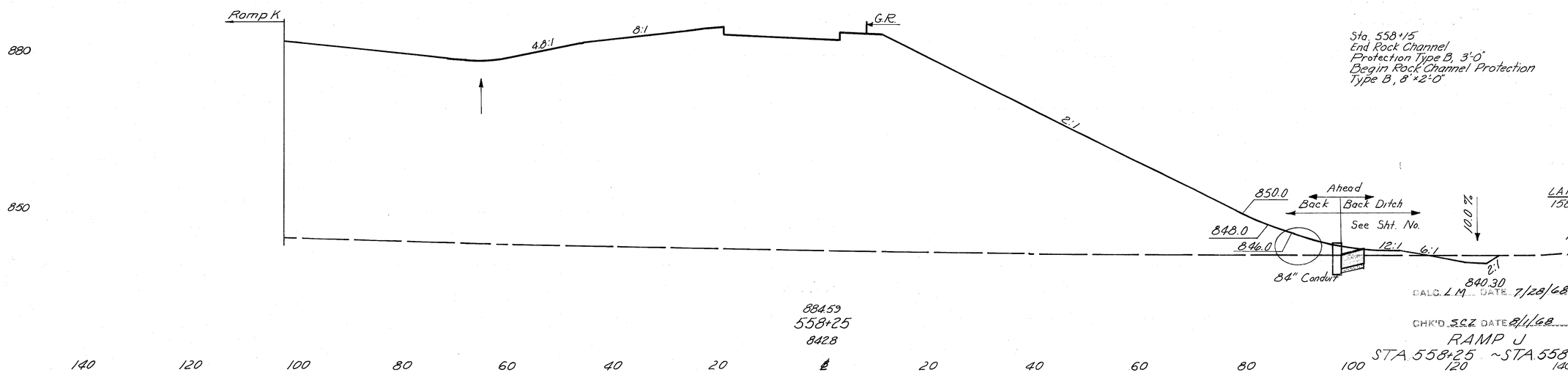
6

40 8825



32 6646

88505
558+50
843.7



27 5925

88459
558+25
842.8

DALC. L.M. DATE 7/28/68

CHK'D. SCZ DATE 8/1/68

0 3324

RAMP J
STA. 558+25 ~STA. 558+87

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

403
638

CLERMONT COUNTY
CLE-275-6.68

880

Mainline

5.4:1

8:1

G.R.

2:1

L.A.R/W

3.1%

12:1

2:1

2:1

38 4140

887.63
560+00
854.1

850.45

4.5%

TYPICAL SECTION A-A

Regraded Ground

Existing Ground

$Exc. \frac{(5+2)}{2} 1 \times 11 = 27 = 2\ C.Y.$

Sta. 559+53

2

45 8411

880

5.8:1

Continued From Sht. No. 319

860

Sta. 559+53, 84' Rt.
604 Std. HWE Endwall
Inv. 15" = 849.6

L.A.R/W

A

Regraded Ground

A

848.20

18 4698

603, 212'+15" Conduit Type B
706.02 Cl. V Cl. B Bedding

84" Conduit

886.81
559+50
852.9

2.7%

880

8:1

G.R.

5.8:1

Mainline

2:1

25 5988

L.A.R/W

12:1

2:1

2:1

847.39

32 5434

84" Conduit

886.28
559+19.17
850.5

2.7%

CALC. L.M. DATE 7/28/68

CHK'D S.C.Z. DATE 8/4/68

32 7078

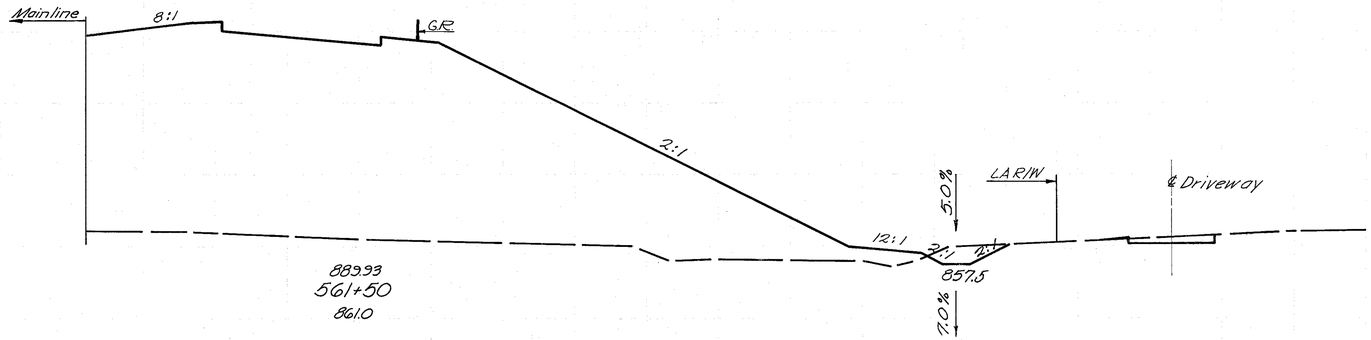
RAMP J
STA. 559+19.17 ~ STA. 560+00

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

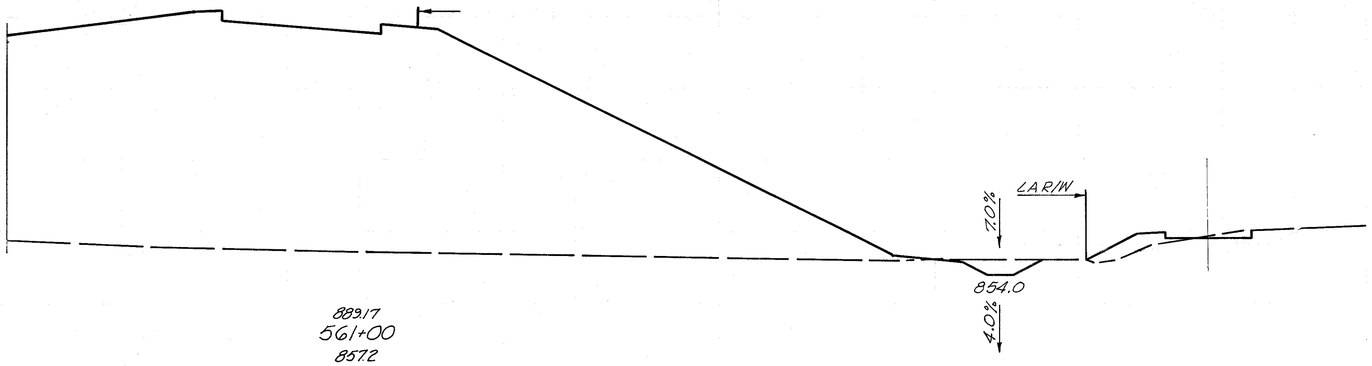
140 120 100 80 60 40 20 ℄ 20 40 60 80 100

404
638

CLERMONT COUNTY
CLE.-275-668

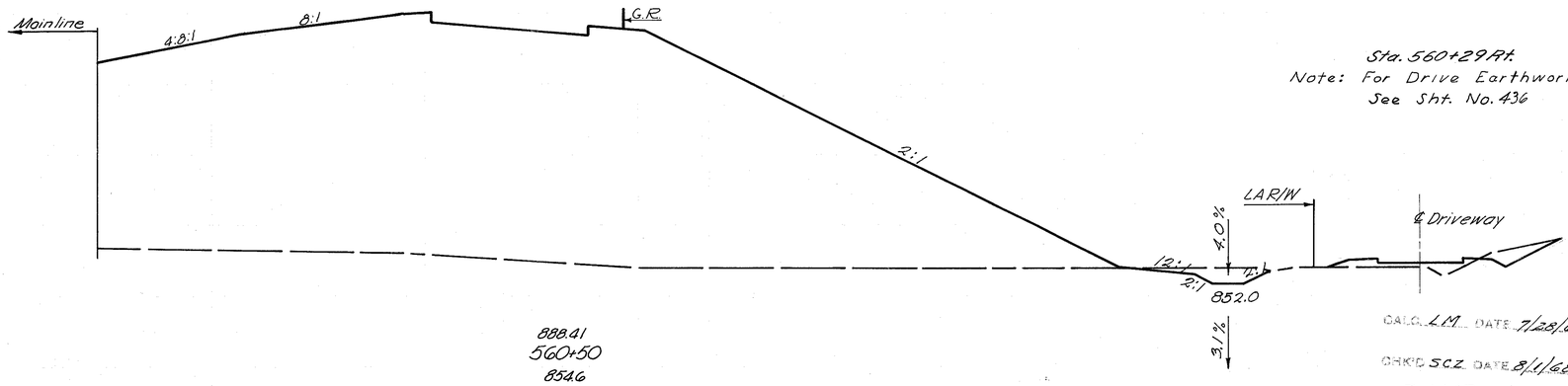


24 2254



24 2876

39 4766



45 6009

Sta. 560+29 Rt.
Note: For Drive Earthwork
See Sht. No. 436

29 45

30 3570

CALC. LM DATE 7/28/68
CHKD SCZ DATE 8/1/68

55 7251

RAMP J
STA. 560+50 – STA. 561+50

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

140 120 100 80 60 40 Mainline 20 ℄ 20 40 60 80 100

880

G.R.

2:1

10%

LA R/W

12:1 2:1 2:1

883.0

892.99
563+47 (Skewed)
865.9

10%

20 1734

880

G.R.

LA R/W

862.5

892.21
563+00
864.8

28 2950

16 1670

880

G.R.

2:1

LA R/W

40%

12:1 2:1 2:1

862.0

891.45
562+50
863.2

40%

14 1720

25 3117

880

Mainline

G.R.

2:1

LA R/W

40%

12:1 2:1 2:1

860.0

890.69
562+00
860.9

50%

22 3441

12 2016

23 3945

405
63B

CLERMONT COUNTY
CLE.-275-6.68

STA. 546+61 - STA. 563+47		
Excavation	4,779	C.Y.
Embankment	98,044	C.Y.

CHK'D L.M. DATE 7/28/68

CHK'D S.C.Z. DATE 8/1/68

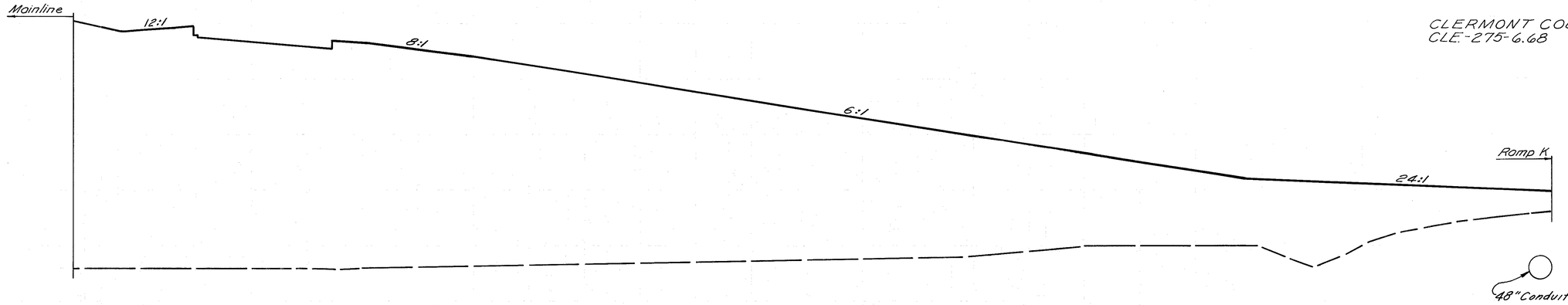
RAMP J
STA. 562+00 - STA. 563+47

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

60 40 20 ℄ 20 40 60 80 100 120 140 160 180

406
638

CLERMONT COUNTY
CLE.-275-6.68

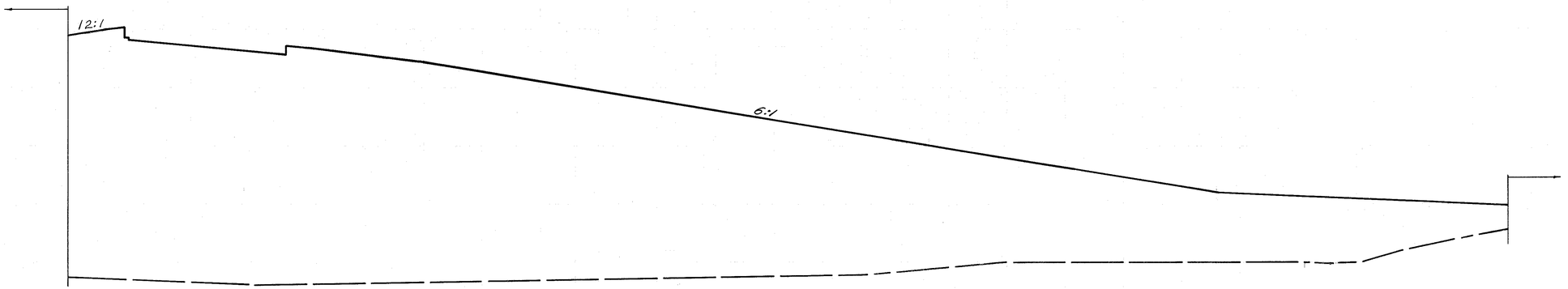


6350

840

887.49
556+40
845.8

0 9098



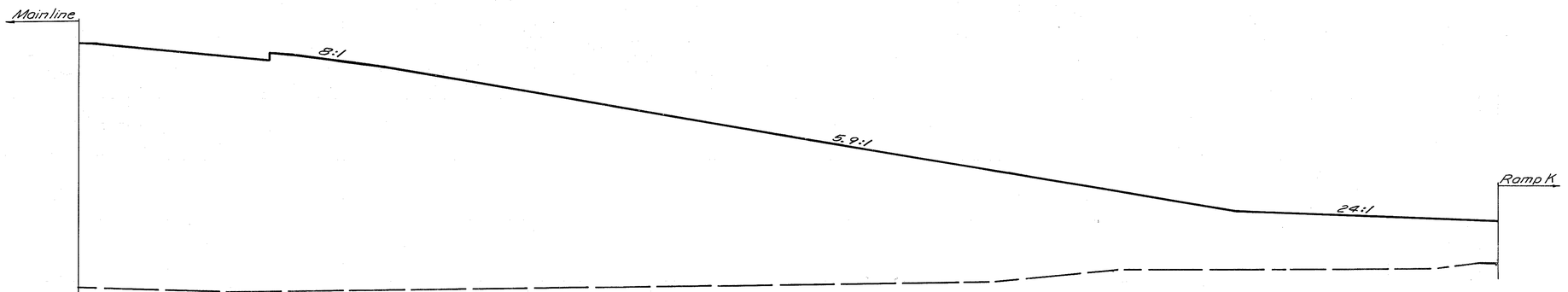
6344

840

88798
556+00
846.1

Note: Volumes of Cross Sections Sta. 555+67.18 to Sta. 568+58.50 Inclusive have been corrected for curvature by the method shown on Sht. No. 22

0 6759



5534

850

888.39
555+67.18
848.2

CALC. L.M. DATE 7/28/68

CHK'D. S.C.Z DATE 8/1/68

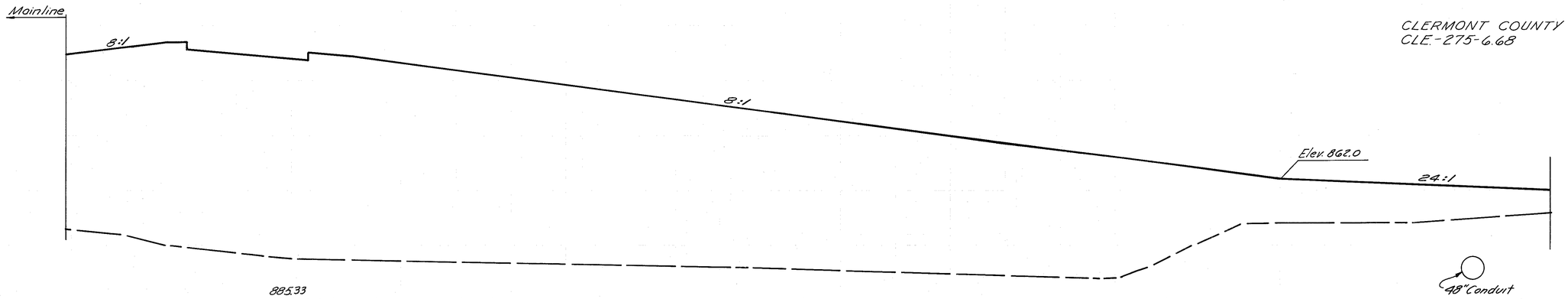
RAMP K
STA. 555+67.18 ~ STA. 556+40

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

60 40 20 ℄ 20 40 60 80 100 120 140 160 180

407
638

CLERMONT COUNTY
CLE.-275-6.68

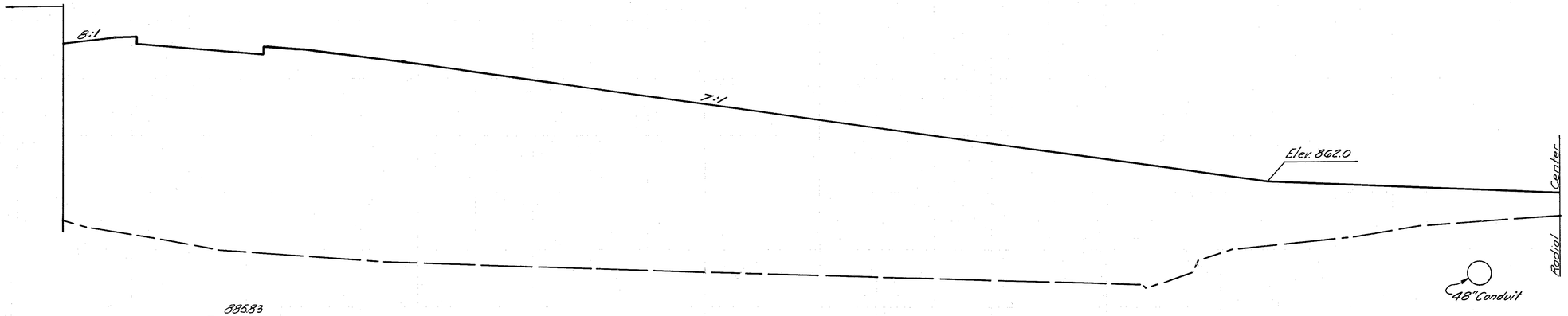


6698

840

88533
558+00
847.6

0 5948

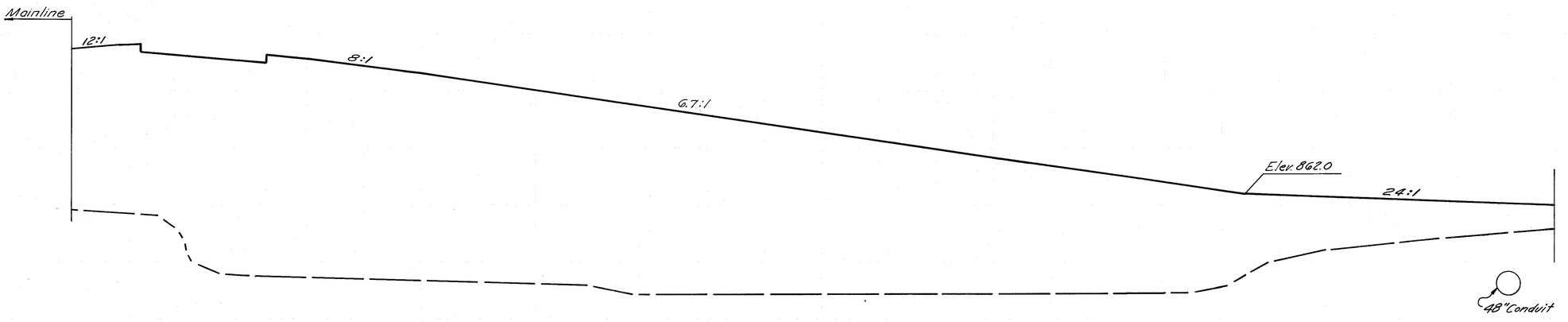


6902

840

88583
557+67.18
849.6

0 12759



6545

840

886.74
557+00
847.6

0 13002

CALC. LM DATE 7/28/68

CHK'D SCZ DATE 8/1/68

RAMP K
STA. 557+00 ~ 558+00

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

60 40 20 ℄ 20 40 60 80 100 120 140 160 180

408
638

CLERMONT COUNTY
CLE-275-6.68

Ramp J

8:1

8:1

Elev. 862.0

24:1

Center

5676

Radial

48" Conduit

840

882.56
559+50
844.0

O 9072

8:1

8:1

Elev. 862.0

6524

48" Conduit

840

883.57
559+00
844.6

O 10634

Ramp J
Mainline

4.7:1

8:1

8:1

7:1

Elev. 862.0

24:1

Center

7378

Radial

48" Conduit

840

884.49
558+50
845.7

O 10547

DRN LM DATE 7/28/68

CHK'D SCZ DATE 8/1/68

RAMP K
STA. 558+50 ~ STA. 559+50

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

60 40 20 ℄ 20 40 60 80 100 120 140 160 180

409
638

CLERMONT COUNTY
CLE.-275-6.68

Elev. 859.0

Match Line

Radial Center

850

220 240 260 280 300

48"Conduit

Ramp J

8:1

Elev. 864.0

3766

Match Line

850

879.43
560+88.76
856.1

0 4280

8:1

Elev. 862.0

3858

850

880.32
560+50
853.1

Ramp J

0 6497

12:1

8:1

Elev. 862.0

Center

5028

Radial

48"Conduit

840

0 8007

881.46
560+00
848.0

CALC. L.M. DATE 7/28/68

CHK'D. SCZ DATE 8/4/68

RAMP K
STA. 560+00~560+88.76

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

60 40 20 ℄ 20 40 60 80 100 120 140 160 180

410
638

CLERMONT COUNTY
CLE-275-6.68

Match Line C
Elev. 858.5
850
220 240 260 280 300 320
20 2438
48" Conduit

Ramp J
876.5
12:1
8:1
Elev. 864.0
Match Line C
5 3747

850

87576
562+50
861.4

Match Line B
Elev. 858.5
850
220 240 260 280 300 320
2436
48" Conduit

8:1
Elev. 864.0
Match Line B
0 3963

850

87690
562+00
860.4

Match Line A
Radial Center
850
220 240 260 280 300 320
2752
48" Conduit

Ramp J
8:1
Elev. 862.0
Match Line A
0 5965

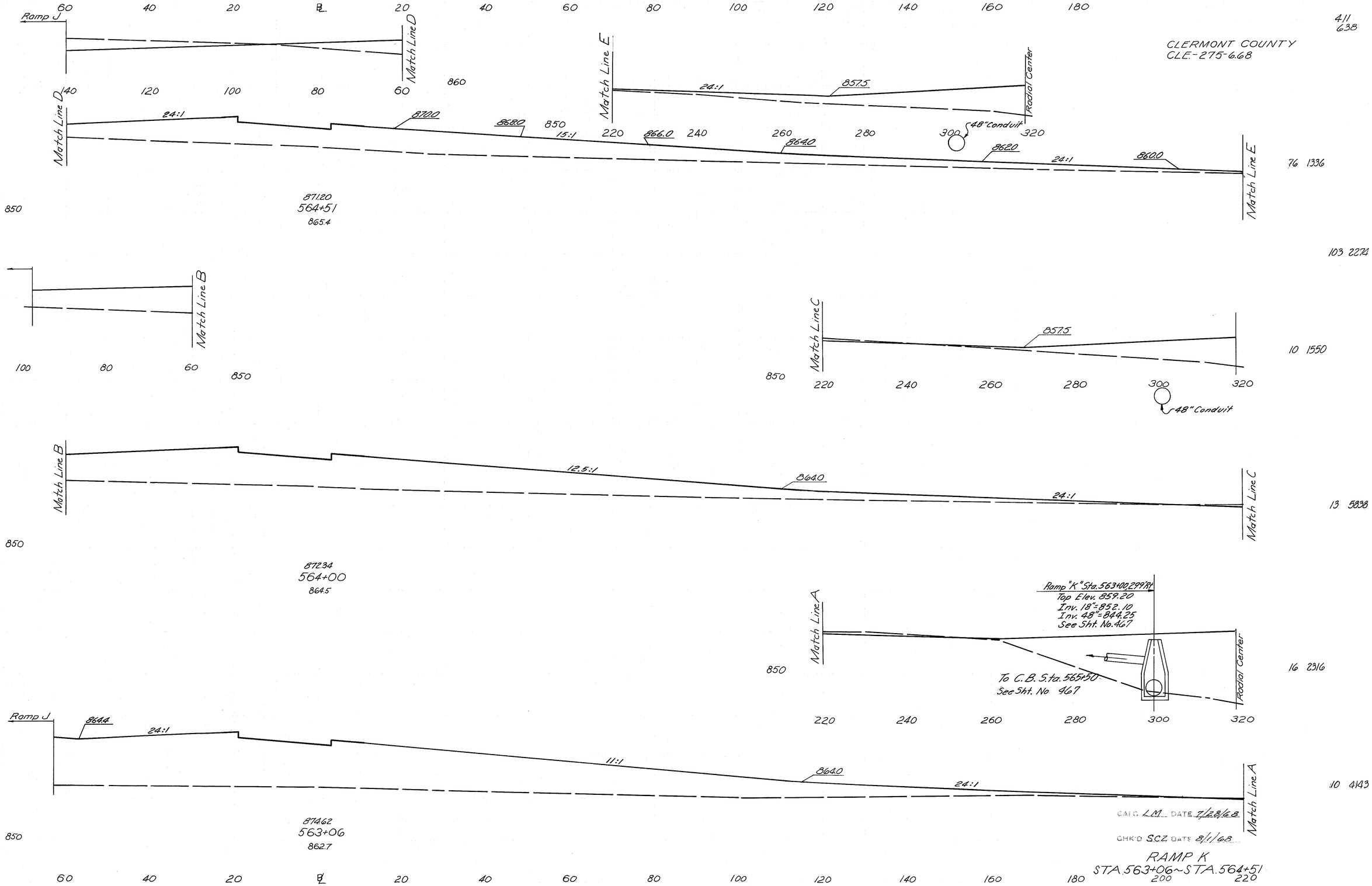
850

87804
561+50
859.0

DES. L.M. DATE 7/28/68
CHK'D SCZ DATE 8/1/68

RAMP K
STA. 561+50 ~ STA. 562+50

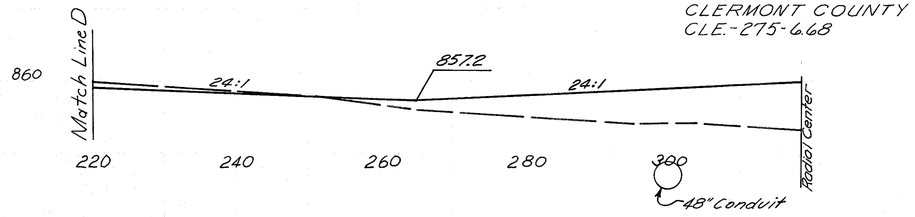
60 40 20 ℄ 20 40 60 80 100 120 140 160 180 200 220

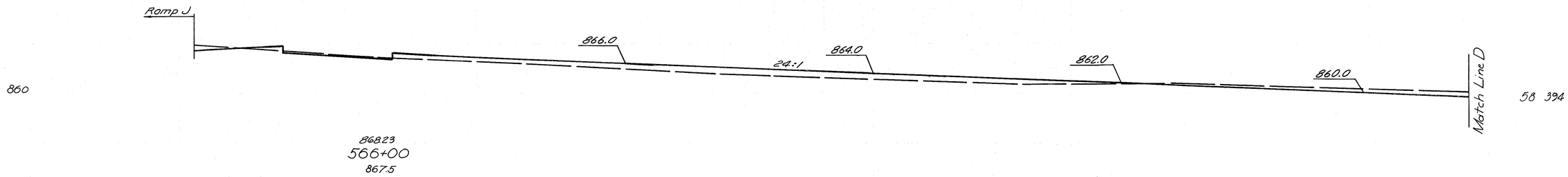

Ramp J
60 40 20 ℄ 20 40 60 80 100 120 140 160 180
Match Line D
Match Line E
CLERMONT COUNTY
CLE.-275-6.68
411
638
140 120 100 80 60
860
24:1
857.5
Radial Center
Match Line D
24:1
87.0.0
86.8.0
850
15:1
220 866.0 240 260 864.0 280 300 320
48" Conduit
862.0
24:1
860.0
Match Line E
76 1336
850
87.1.20
564+51
865.4
103 2274
Match Line B
100 80 60
850
Match Line C
857.5
10 1550
850
220 240 260 280 300 320
48" Conduit
13 5838
Match Line B
12.5:1
864.0
24:1
Match Line C
850
87.2.34
564+00
864.5
Ramp "K" Sta. 563+00.29 Rt
Top Elev. 859.20
Inv. 18"=852.10
Inv. 48"=844.25
See Sht. No. 467
Match Line A
850
To C.B. Sta. 565+50
See Sht. No 467
Radial Center
16 2316
220 240 260 280 300 320
Ramp J
864.4
24:1
11:1
864.0
24:1
Match Line A
10 4143
850
87.4.62
563+06
862.7
CAD'G LM DATE 7/28/68
CHK'D SCZ DATE 8/1/68
RAMP K
STA. 563+06 ~ STA. 564+51
60 40 20 ℄ 20 40 60 80 100 120 140 160 180 200 220

60 40 20 ℄ 20 40 60 80 100 120 140 160 180

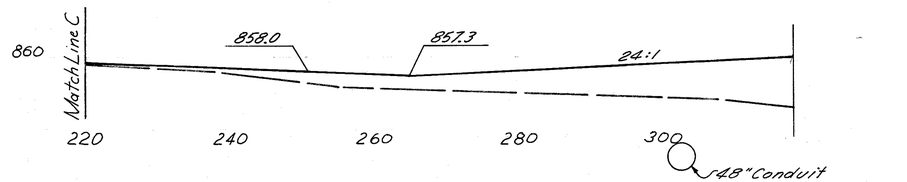
412
638

CLERMONT COUNTY
CLE.-275-6.68

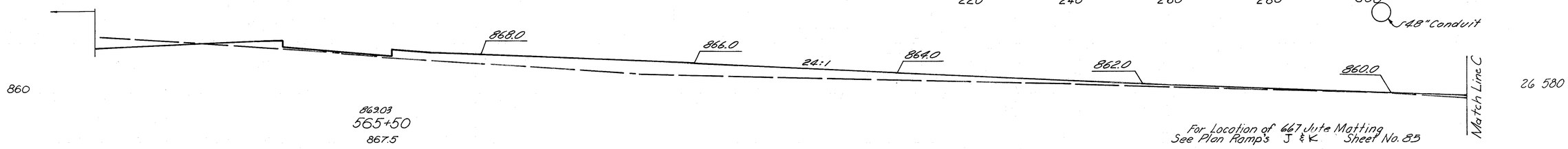




58 394

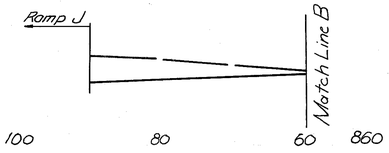


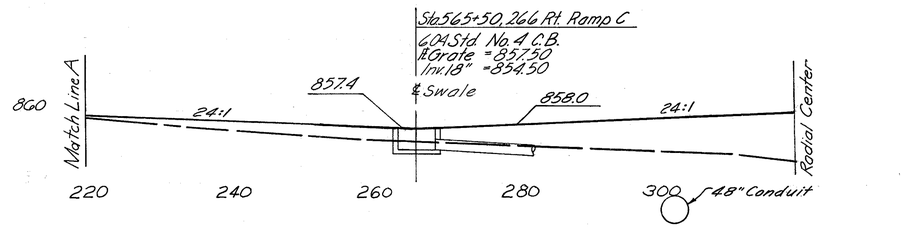
48 271



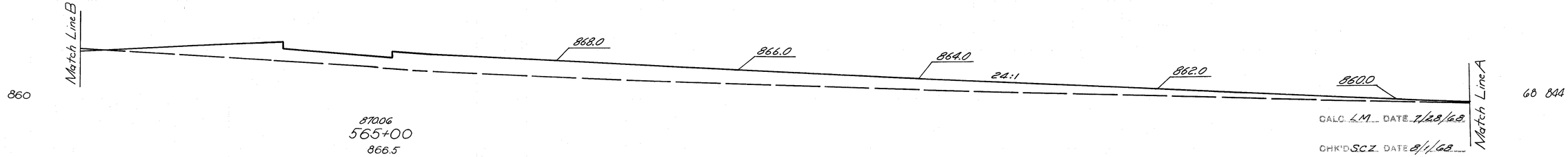
26 580

For Location of 667 Jute Matting
See Plan Ramp's J & K Sheet No. 85





107 809



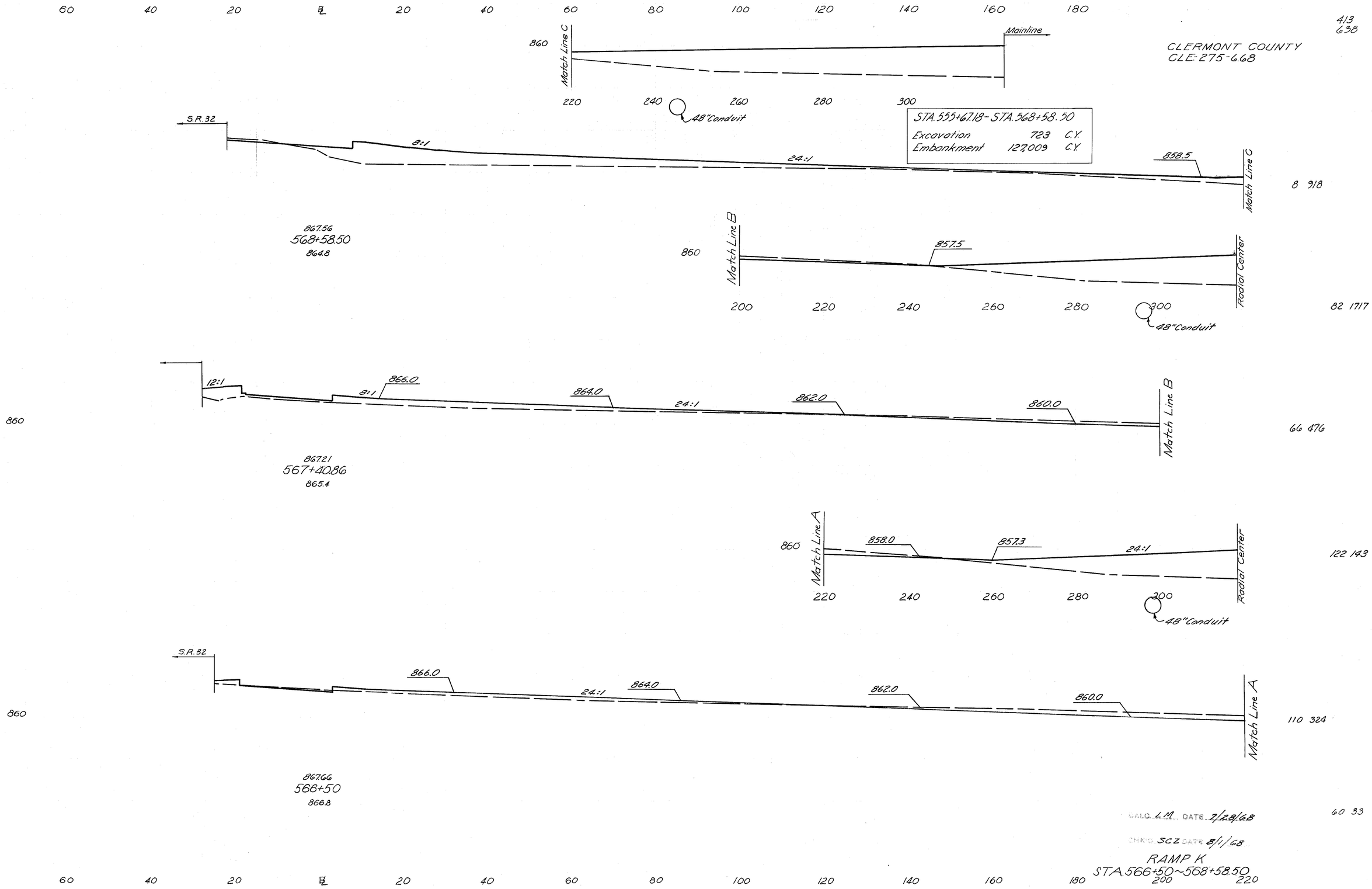
68 844

CALC. LM DATE 7/28/68
CHK'D SCZ DATE 8/1/68

173 1503

RAMP K
STA. 565+00 ~ STA. 566+00

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



4/3
6 38

CLERMONT COUNTY
CLE-275-6.68

8 9/8

82 17/7

66 476

122 143

110 324

60 33

CALC. L.M. DATE 7/28/68

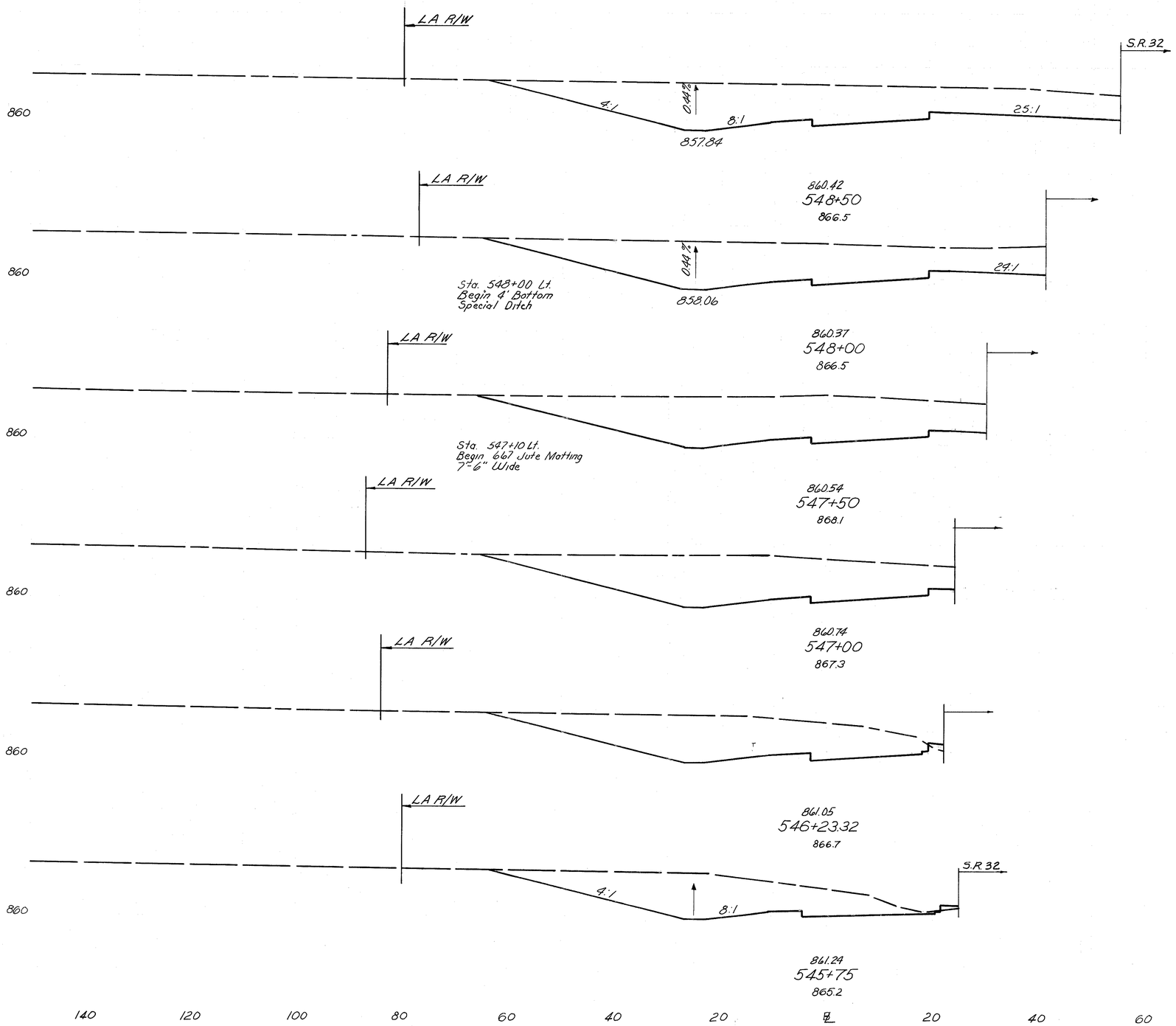
CHK'D. SCZ DATE 8/1/68

RAMP K
STA. 566+50 ~ 568+58.50

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

414
638

CLERMONT COUNTY
CLE.-275-6.68



680 0

1188 0

620 0

1126 0

620 0

1078 0

570 0

1448 0

470 0

759 0

402 0

Note: Volumes of Cross Sections Sta. 545+75 to Sta. 550+41.25 and Sta. 557+77.82 to Sta. 562+94 Inclusive have been Corrected for Curvature by the method Shown on Sht. No. 22

CALC. SCZ DATE 8/5/68

CHK'D RJP DATE 8/11/68

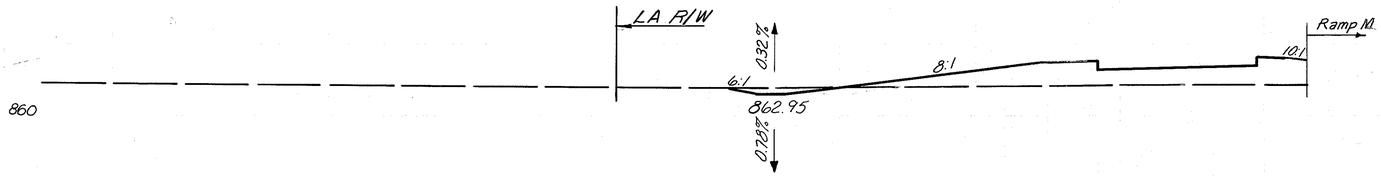
RAMP L
STA. 545+75 ~ STA. 548+50

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

415
638

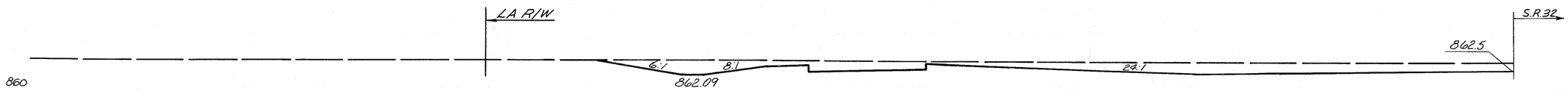
CLERMONT COUNTY
CLE.-275-6.68



10 154

601 314

867.74
552+00
864.1

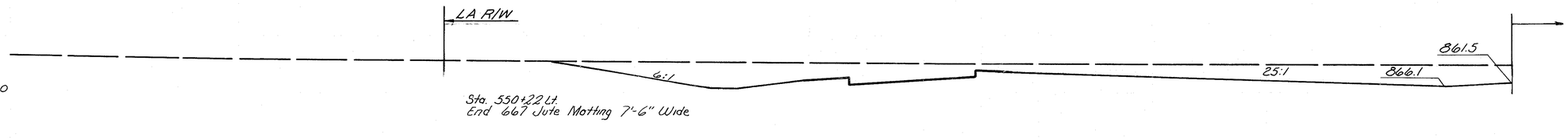


285 0

Sta. 550+90 Lt.
Begin 4' Bottom Special Ditch

864.13
550+90
864.9

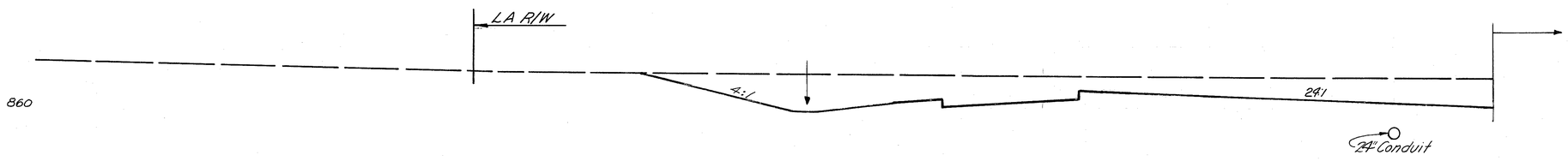
688 0



460 0

862.91
550+41.25
865.1

1250 0

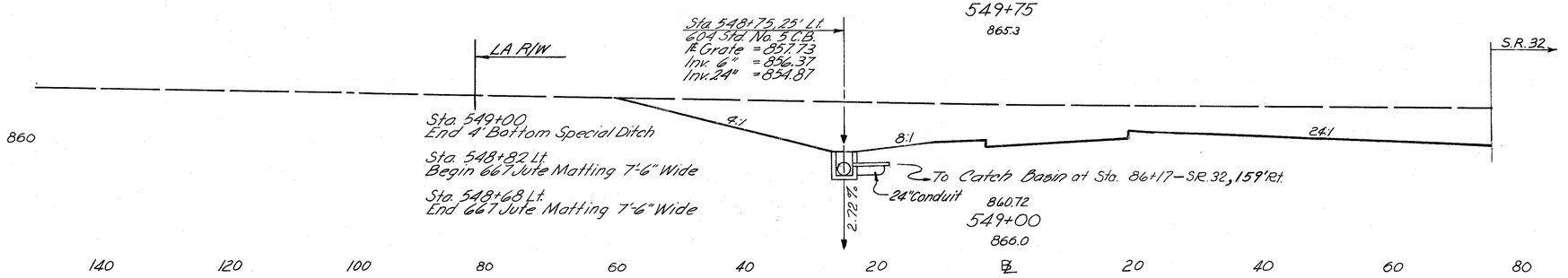


540 0

861.64
549+75
865.3

1711 0

Sta 548+75.25' Lt.
604 Std. No. 5 C.B.
℄ Grate = 857.73
Inv. 6" = 856.37
Inv. 24" = 854.87



677 0

Sta. 549+00
End 4' Bottom Special Ditch

Sta. 548+82 Lt.
Begin 667 Jute Matting 7'-6" Wide

Sta. 548+68 Lt.
End 667 Jute Matting 7'-6" Wide

860.72
549+00
866.0

CALC. SCC DATE 8/31/68

CHK'D RJC DATE 8/11/68

RAMP L
STA. 549+00 ~ STA. 552+00

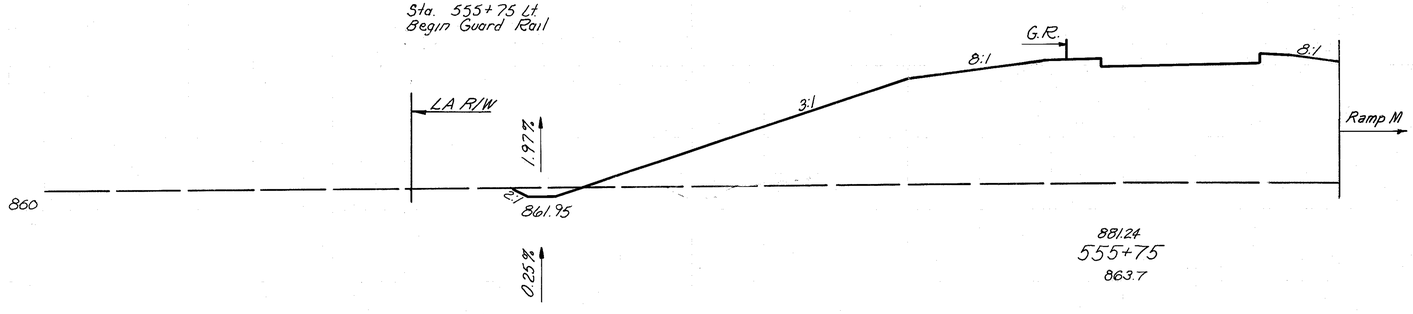
1256 0

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

4/6
638

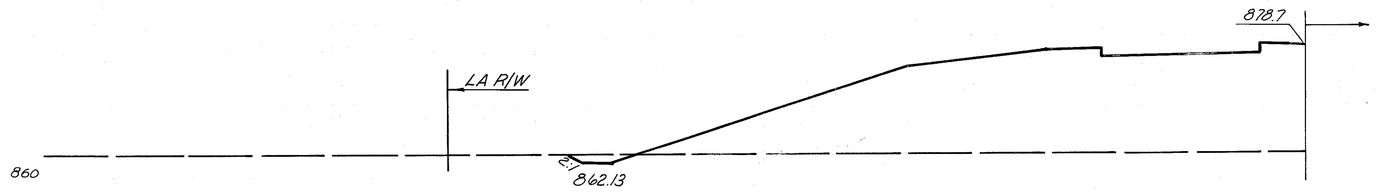
CLERMONT COUNTY
CLE.-275-6.68



881.24
555+75
863.7

7 1340

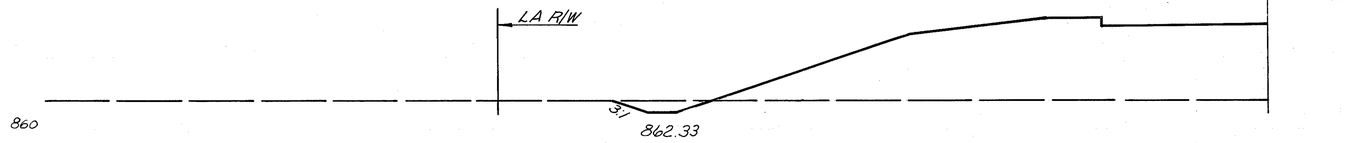
17 3264



878.54
555+00
863.6

5 1010

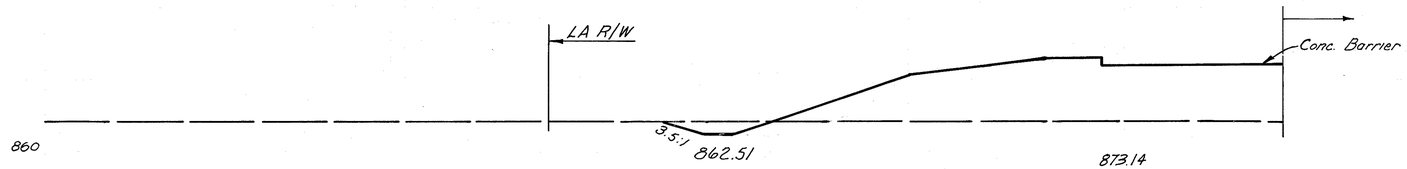
22 2477



875.66
554+20
864.0

10 662

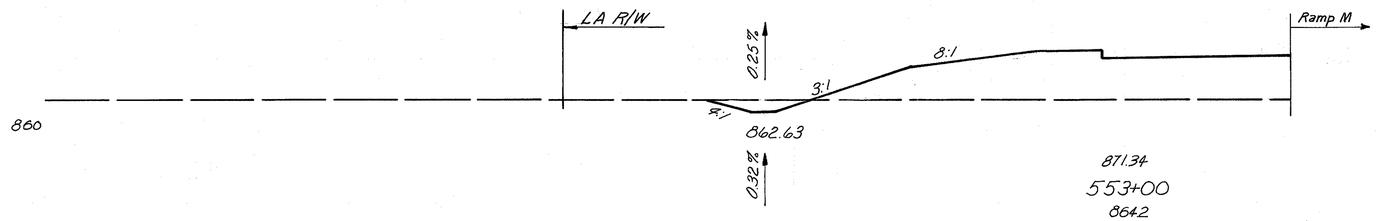
30 1475



873.14
553+50
864.1

13 476

23 768



871.34
553+00
864.2

12 353

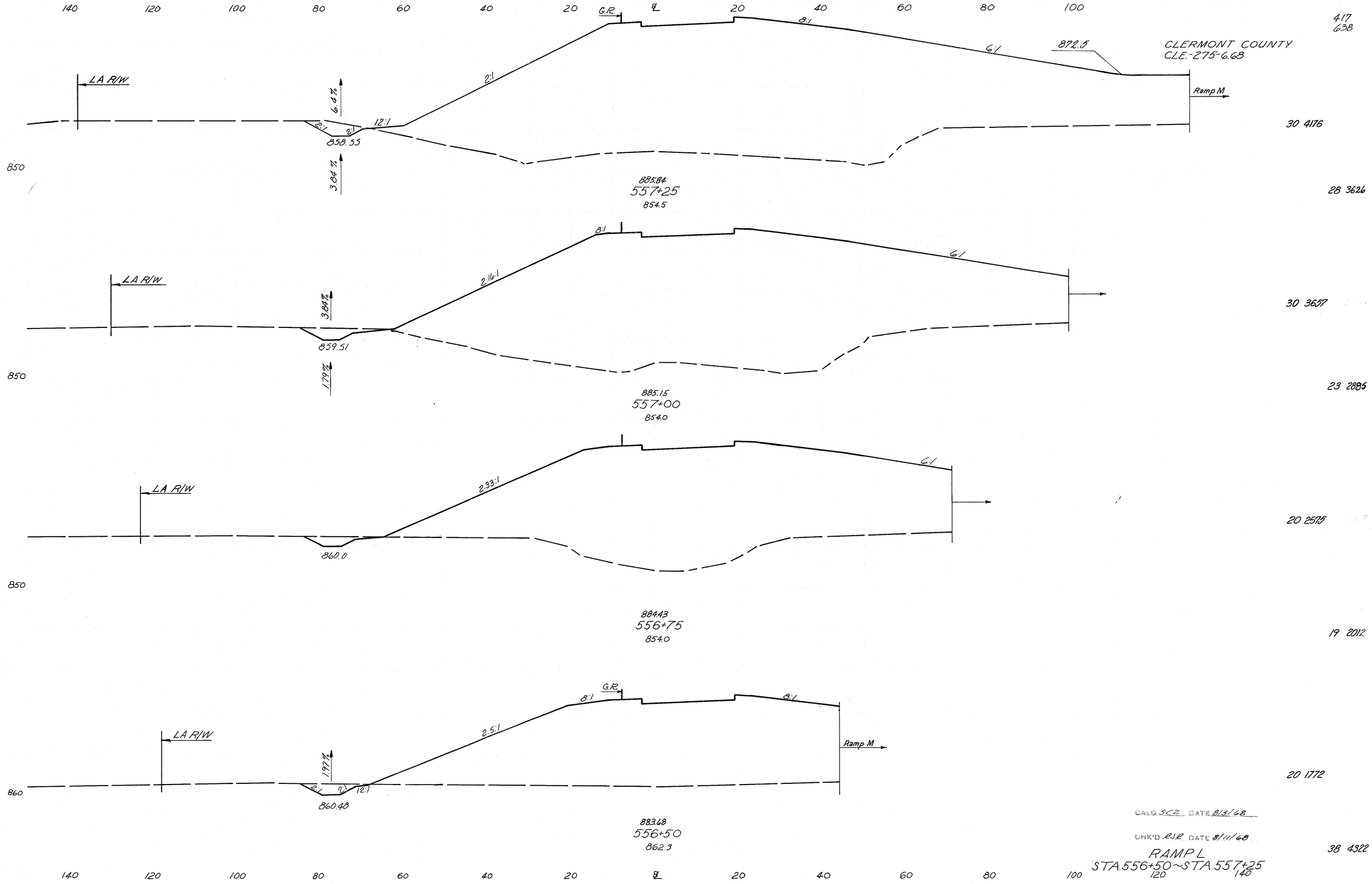
CHK'D SCZ DATE 8/5/68

CHK'D RJR DATE 8/11/68

RAMP L
STA.553+00~STA.555+75

41 939

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140



417
638

30 4176

28 3626

30 3657

23 2885

20 2576

19 2012

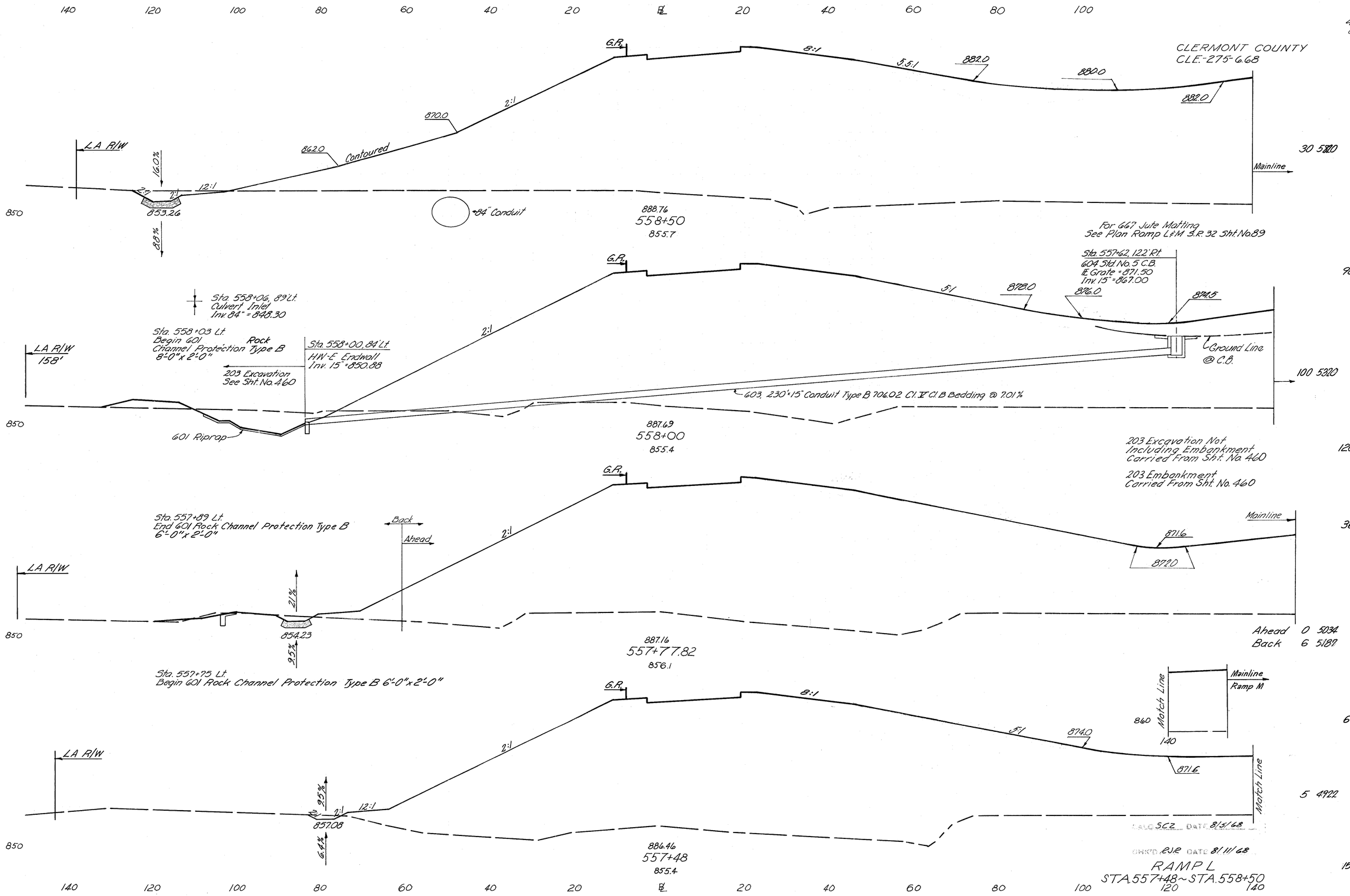
20 1772

38 4322

CALC. SCC DATE 8/5/68

CHK'D R.J.R. DATE 8/11/68

RAMP L
STA. 556+50 ~ STA. 557+25


140 120 100 80 60 40 20 ℄ 20 40 60 80 100
G.R.
CLERMONT COUNTY
CLE.-275-6.68
8:1
3.5:1
882.0
880.0
882.0
870.0
2:1
862.0
Contoured
LA R/W
16.0%
2:1
2:1
12:1
853.26
8.0%
850
84" Conduit
888.76
558+50
855.7
Mainline
30 5310
For 667 Jute Matting
See Plan Ramp L&M S.R. 32 Sht. No. 89
Sta. 557+62, 122' Rt.
604 Std. No. 5 C.B.
℄ Grate = 871.50
Inv. 15" = 867.00
876.0
874.5
5:1
878.0
90 10388
Sta. 558+06, 89' Lt.
Culvert Inlet
Inv. 84" = 848.30
Sta. 558+03 Lt.
Begin 601
Channel Protection Type B
8'-0" x 2'-0"
Rock
Sta. 558+00, 84' Lt.
H/W-E Endwall
Inv. 15" = 850.88
203 Excavation
See Sht. No. 460
LA R/W
158'
2:1
Ground Line
@ C.B.
100 5310
603, 230'-15" Conduit Type B 706.02 Cl. II Cl. B Bedding @ 7.01%
850
601 Riprap
887.69
558+00
855.4
203 Excavation Not
Including Embankment
Carried From Sht. No. 460
120
203 Embankment
Carried From Sht. No. 460
44
Mainline
8716
8720
36 4439
Sta. 557+89 Lt.
End 601 Rock Channel Protection Type B
6'-0" x 2'-0"
Back
Ahead
LA R/W
21%
854.23
95%
850
887.16
557+77.82
856.1
Ahead 0 5034
Back 6 5187
Sta. 557+75 Lt.
Begin 601 Rock Channel Protection Type B 6'-0" x 2'-0"
Match Line
Mainline
Ramp M
860
140
6 5754
8740
5:1
8716
LA R/W
95%
2:1
12:1
857.08
6.4%
850
886.46
557+48
855.4
5 4922
Match Line
L&LD SCZ DATE 8/5/68
CHK'D. EJR DATE 8/11/68
RAMP L
STA. 557+48 ~ STA. 558+50
15 3875
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

CLERMONT COUNTY
CLE-275-6.68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

G.R.
8:1
LA R/W
10 %
2:1
Mainline
Building
2:1
2:1
12:1
860.26
891.74
560+50
855.5
850

8880
8875
6:1
6:1
LA R/W
860
859.76
891.19
560+00
862.0

8860
8840
LA R/W
10 %
860
859.26
40 %
890.52
559+50
862.1
84" Conduit

G.R.
8:1
6:1
8820
8812
Sta. 559+10 Lt.
End 60' Rock Channel Protection Type B 8'-0"x2'-0" 874.0
2:1
LA R/W
Contoured
40 %
2:1
2:1
12:1
857.26
16.0 %
850
889.71
559+00
858.5
84" Conduit
CALC. SCZ DATE 8/5/68
CHKD. EJR DATE 8/11/68
Mainline

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

RAMP L
STA. 559+00 ~ STA. 560+50

30 3200
25 6654
30 3800
30 4570
21 10282
30 5850
19 11767
22 8121

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

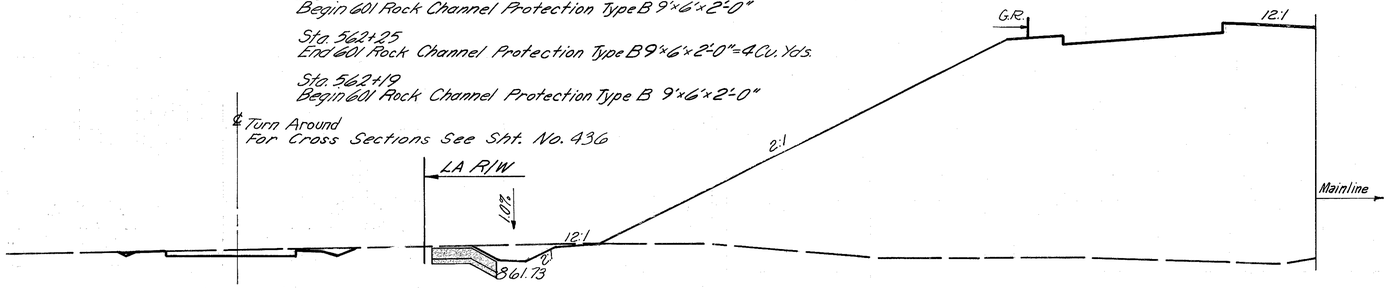
Sta. 562+47
End 60' Rock Channel Protection Type B 9'-6"x2'-0"=4 Cu. Yds.

Sta. 562+41
Begin 60' Rock Channel Protection Type B 9'x6'x2'-0"

Sta. 562+25
End 60' Rock Channel Protection Type B 9'x6'x2'-0"=4 Cu. Yds.

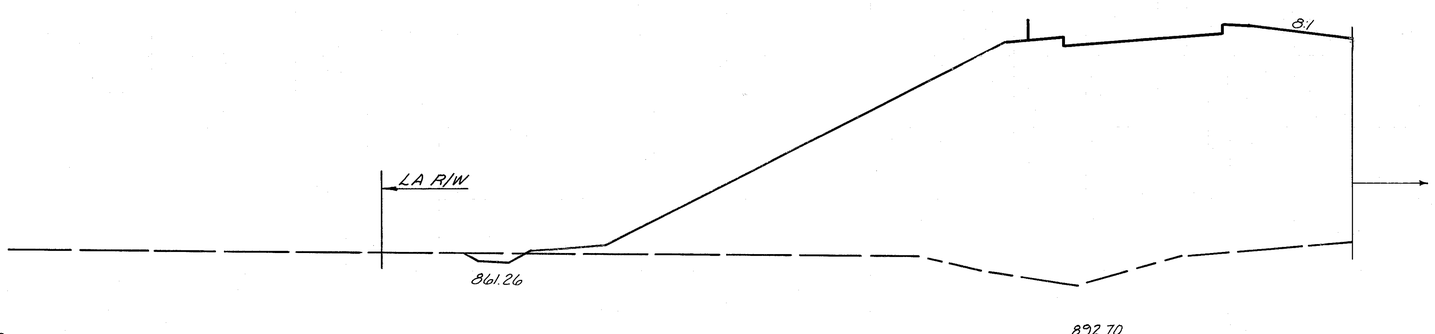
Sta. 562+19
Begin 60' Rock Channel Protection Type B 9'x6'x2'-0"

℄ Turn Around
For Cross Sections See Sht. No. 436



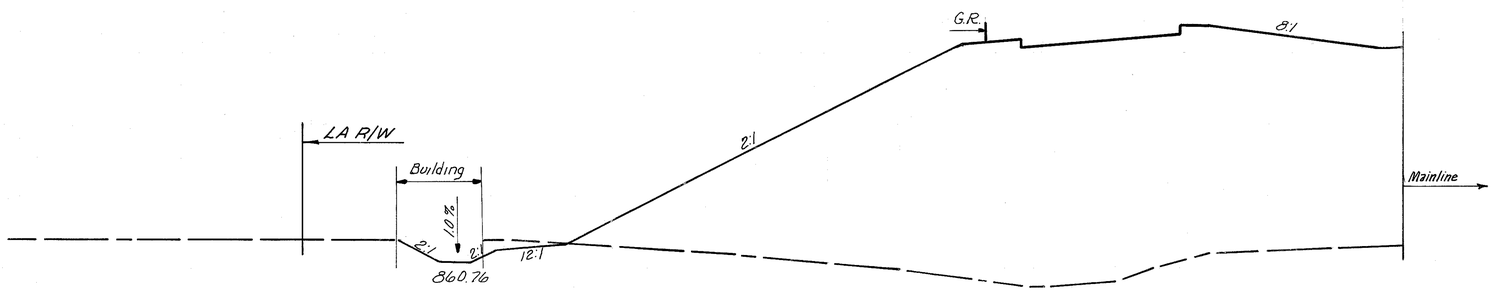
850

893.14
561+96.93
862.0



850

892.70
561+50
858.4



850

892.22
561+00
857.3

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

420
638

CLERMONT COUNTY
CLE.-275-6.68

16 2223

35 6

Sta. 22+36 Aicholtz Rd.
Tee Turnaround
Carried from Sheet 436

9 3739

6 2417

13 4875

Sta. 561+14 Lt. to Sta. 562.07 Lt.
Pavement Removed Under Item 203.
Excavation not Including Embankment Construction and Earth Backfill Shall be Included in Item 203 Embankment. See Sheet No. 89

$\frac{8 \times 6.5 \times 1}{27} = 1.9$ Cu. Yds. 19 19

30 2835

25 5656

CALC. S.C.Z. DATE 8/5/68

CHK'D R.J.E. DATE 8/11/68

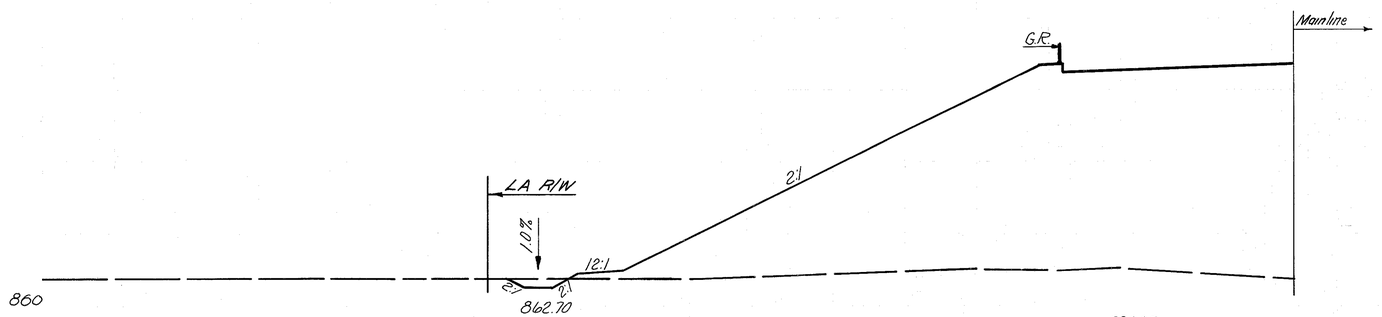
RAMP L
STA. 561+00 ~ STA. 561+96.93

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

421
638

CLERMONT COUNTY
CLE.-275-6.68
475 Rad 421-795

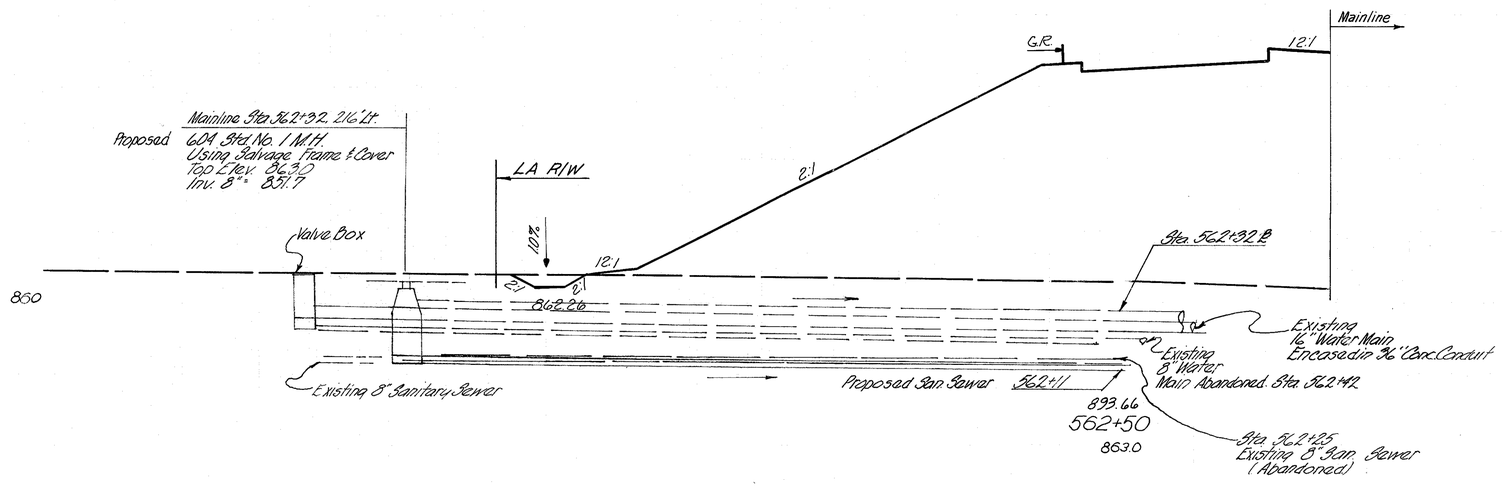
STA. 545+75 - STA. 562+94		
Excavation	11,820	C.Y.
Embankment	106,353	C.Y.



6 1875

894.07
562+94
865.3

7 4242



12 2104

CALC. SCZ DATE 8/5/68
CHK'D R.S.R. DATE 8/11/68

14 4213

RAMP L
STA. 562+50 ~ STA. 562+94

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

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

422
638

CLERMONT COUNTY
CLE.-275-6.68

Ramp "M" Sta. 555+68, 64' Rt.
604 Std. HWE Endwall
Inv. 15" = 880.50

Prop. Grade at Headwall

Continued to Sta. 555+70
Cross Sections M
See Sheet No. 3A6

1.94%

603 134'-15" Conduit Type B
Cl. B Bedding @ 1.94%

601 Rock Channel Protection
Type "B" 5'-5"x2'-0" = 2 Cu. Yd.

Match Line

Mainline

860

Ramp M Sta. 555+68

60 80

0 8951

2

TYPICAL SECTION OUTLET CHANNEL

Regraded Ground

$\frac{(7+2)}{2}\frac{(1.5\times20)}{2} \div 27 = 2.5$ Cu. Yd.

Channel 20' from H.W.
Turn & Follow Swale

883.9

8:1 8:1 5.5:1

868.0 870.0

Radial Center

Match Line

0 5241

0 10,762

850

886.05
555+50
859.7

12:1 6:1 4.6:1

870.0

Radial Center

0 4010

887.20
554+81.77
858.9

0 13,235

850

8:1 3.9:1 Skewed

Ramp "M" 870.0

0 3548

Mainline

850

Note: Volumes of Cross Sections Sta. 553+78 to Sta. 564+62.42 Inclusive have been corrected for curvature by the method shown on Sht. No. 82.

CALC. SCZ DATE 8/5/68

CHK'D. RJK DATE 8/11/68

888.27
553+78
853.5

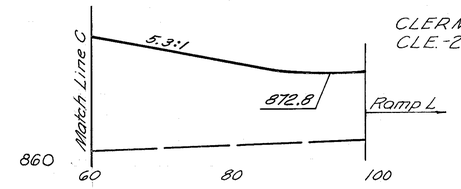
RAMP M
STA. 553+78 ~ STA. 555+50

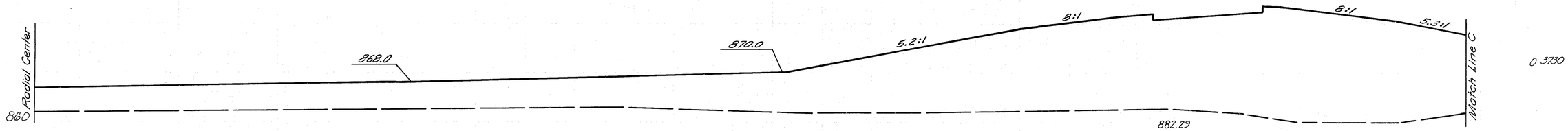
220 200 180 160 140 120 100 80 60 40 20 ℄ 20 40 60

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

423
638

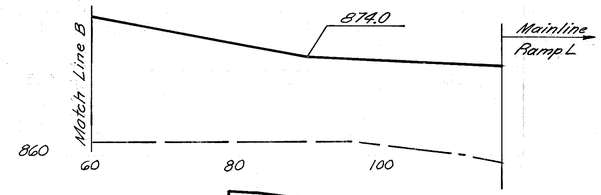
CLERMONT COUNTY
CLE.-275-6.68



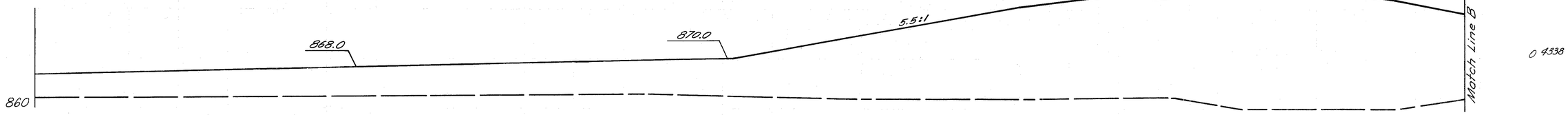


0 3730

882.29
557+00
862.8

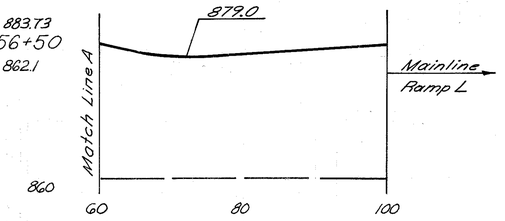


0 7211

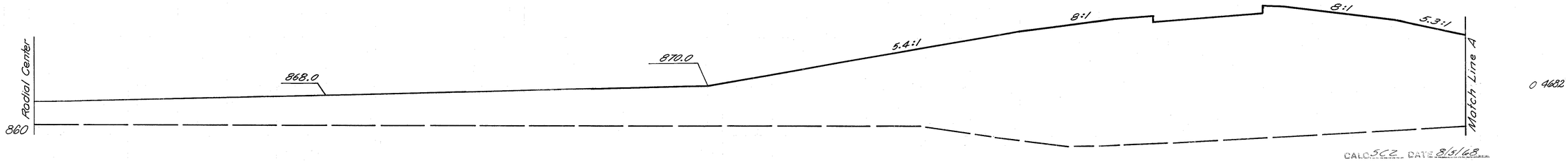


0 4338

883.73
556+50
862.1



0 8077



0 4682

CALC SCZ DATE 8/31/68

CHK'D RJR DATE 8/11/68

884.99
556+00
858.8

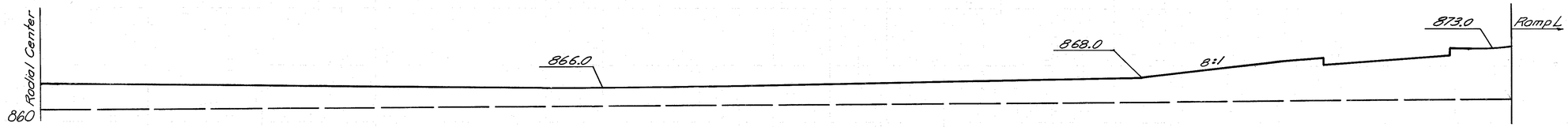
RAMP M
STA. 556+00 ~ STA. 557+00

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

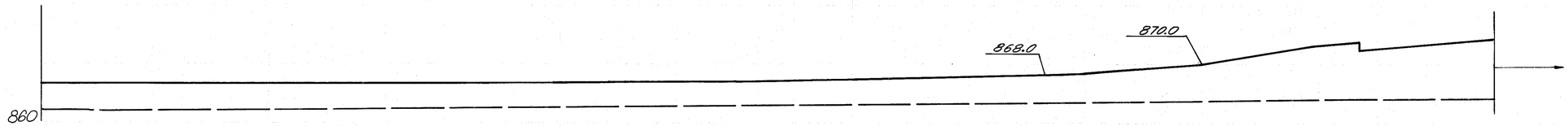
220 200 180 160 140 120 100 80 60 40 20 ℄ 20

424
638

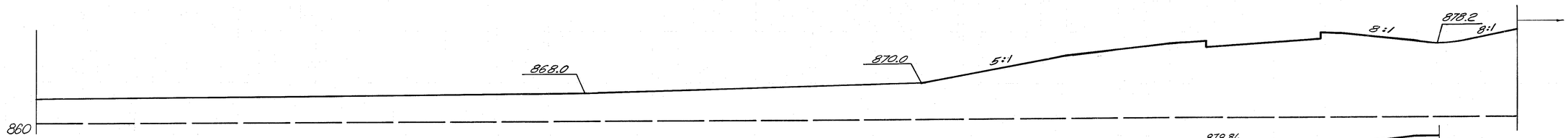
CLERMONT COUNTY
CLE.-275-6.68



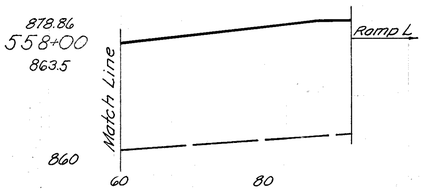
871.58
560+00
864.0

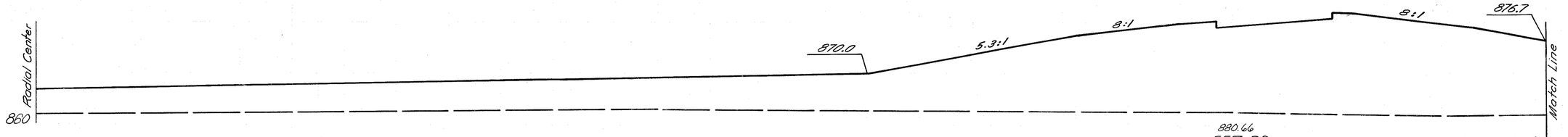


874.13
559+30
864.0



878.86
558+00
863.5





880.66
557+50
862.8

CALC. SCZ DATE 8/5/68

CHK'D RJR DATE 8/11/68

0 1200
0 2270
0 1340
0 7391
0 2470
0 5044
0 3426
0 6365

RAMP M
STA. 557+50 ~ STA. 560+00

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

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

STA. 553+78 - STA. 564+62.42		
Excavation	1,576	C.Y.
Embankment	83,702	C.Y.

CLERMONT COUNTY
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425
638

S.R. 32 — 866.0 — 8:1 — S.R. 32
860

80 385

Sta. 563+69 Lt.
Begin 6:1 Jute Matting 7'-6" Wide
863.91
564+62.42
Sta. 563+55 Lt.
End Jute Matting 7'-6" Wide
863.9

778 9417

Radial Center — 866.0 — S.R. 32
860

224 290

863.06
563+12.42
864.1

618 277

Match Line B — Ramp L
S.R. 32
860
60

866.0
860

106 395

Sta. 562+00
Begin 4' Bottom Ditch
864.76
562+00
Sta. 561+93 Lt.
Begin 6:1 Jute Matting 7'-6" Wide
864.0

178 1661

Match Line A — 867.3 — Ramp L
860
60

Radial Center — 866.0 — 8:1 — 24:1 — Match Line A
860

0 873

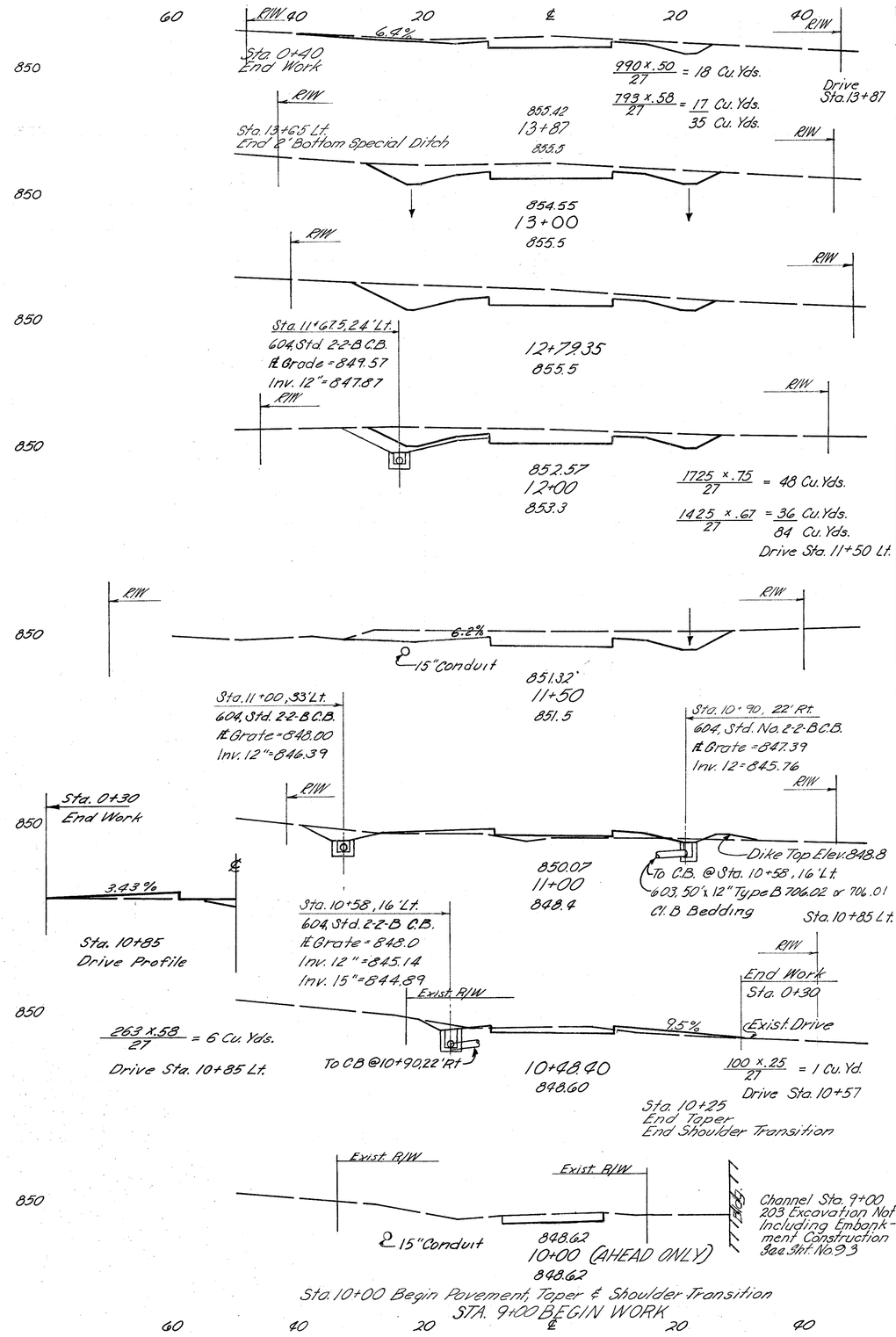
CALC. SCZ DATE 8/5/68
CHK'D RJR DATE 8/11/68

867.94
561+00
864.1

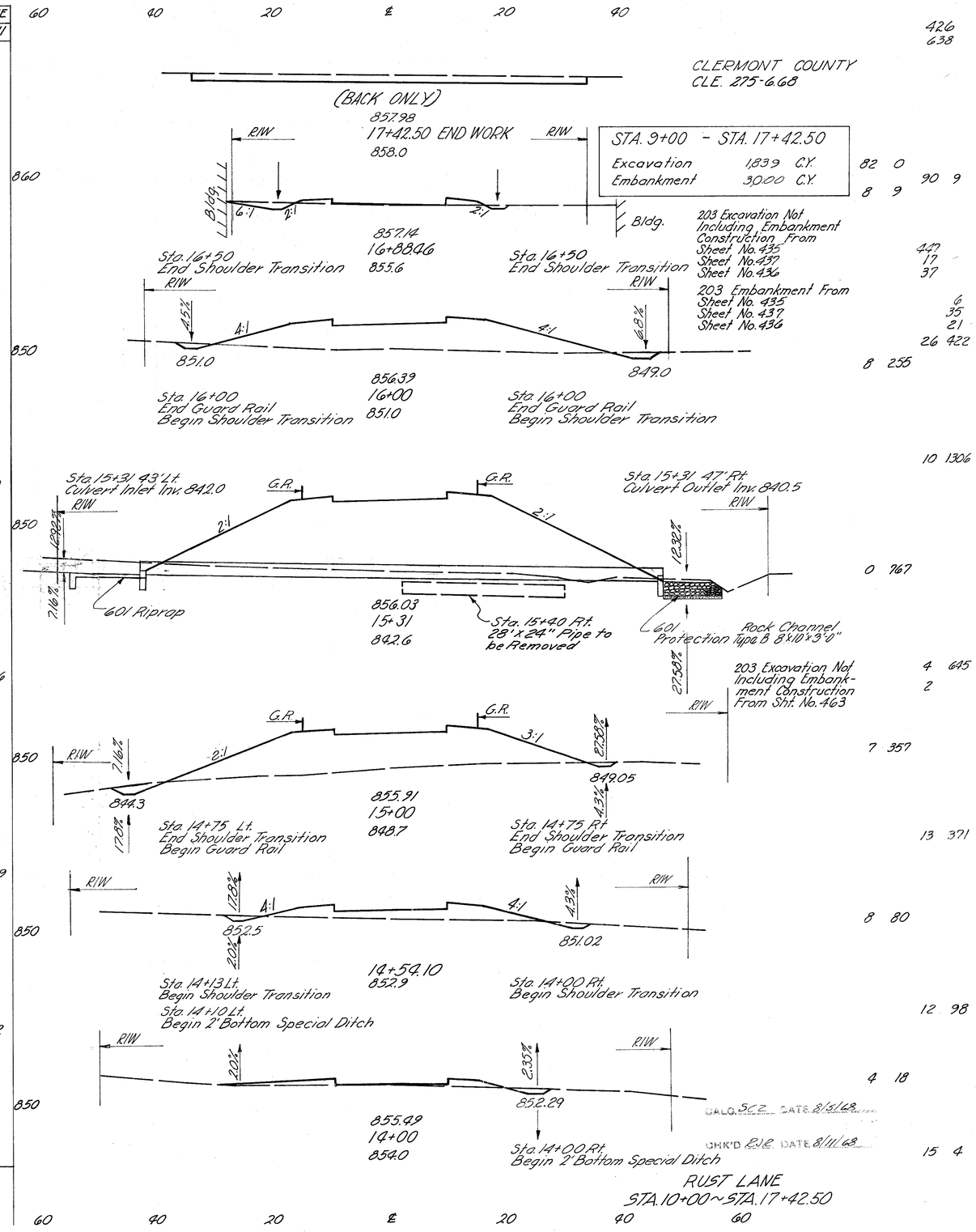
0 3041

RAMP M
STA. 561+00 ~ STA. 564+62.42

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



END AREA		VOLUME	
Cut	Fill	Cut	Fill
60	0		
		35	
		258	0
100	0		
		84	0
120	0		
		316	0
95	0		
		193	0
		84	
113	0		
		118	26
14	28		
		3	6
		35	39
23	13		
		1	
		37	12
18	0		
		2	
0	0		

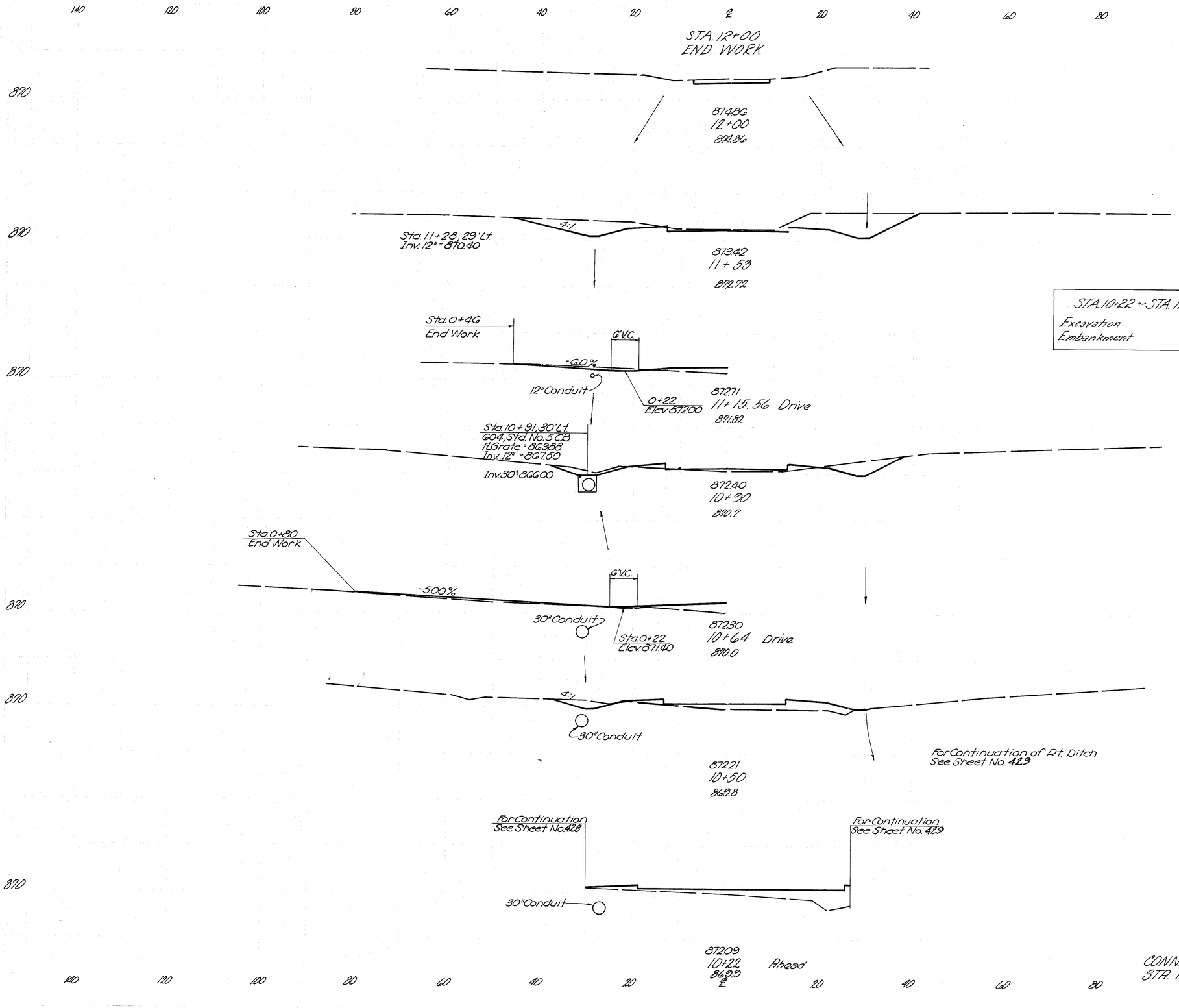


CLERMONT COUNTY
CLE. 275-6.68

		426	
		638	
82	0		
8	9	90	9
		447	
		17	
		37	
		6	
		35	
		21	
		26	422
8	255		
		10	1306
0	767		
4	645		
		2	
7	357		
		13	371
8	80		
		12	98
4	18		
		15	4

CALC. SCZ DATE 8/31/68
CHK'D RJR DATE 8/11/68

140 120 100 80 60 40 20 ℄ 20 40 60 80 100



140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

CONNECTION TO AICHOLTZ ROAD
STA. 10+22 ~ STA. 11+53

140 120 100 80 60 40 Back 20 ℄ 20 40 60 80 100

Sta. 33+50, 33' Lt.
604, Std. 2-2-B C.B.
Fl. Grate = 869.28
Inv. 30" = 865.40

Ahead

4:1

4:1

870

869.5

Sta. 33+49, Lt.
End Ditch
Elev. 869.53

872.05
30+50
872.0

CLERMONT COUNTY
CLE. 275-6.68

120 140

Ahead 46 0
Back 63 0

428
638

119 3

1.4%

4:1

870.2

Sta. 29+80, 29' Lt.
Inv. 12" = 870.36

872.35
30+00
872.1

65 3

Sta. 0+42 Lt.
End Work

G.V.C.

-8.86%

12" Conduit

Sta. 0+22
Elev. 872.2

872.58
29+71
872.38
Drive

Sta. 29+56, 29' Lt.
Inv. 12" - 870.5

4:1

4:1

871.0

872.88
29+30.5
872.21

Sta. 29+29 Rt.
Begin Std. Cut Ditch

169 8

88 4

50 2

Ahead
Back

Sta. 29+05.50 Lt.
End Bituminous Taper
Begin Full Depth Pavement

870

Ahead 20 0
Back 3 0

5

873.08
29+05.50
873.08

873.42
28+42
873.42

Sta. 28+42 Lt.
Begin Bituminous Taper

1

CALC. G.S DATE 10/23/67

CHK'D RJR DATE 10/24/67

STA. 28+42
BEGIN WORK

RELOCATED CO. RD. NO. 3 (A) (HOLTZ ROAD)
STA. 28+42.00 - STA. - 30+50

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

120 100 80 60 40 20 ℄ 20 40 60 80 100

429
638

CLERMONT COUNTY
CLE.-275-6.68

120

870

2:1 3:1 3:1 4:1

870.85
32+50
873.2

350 0

500 0

870

2:1 3:1 4:1

871.15
32+00
873.8

225 0

Outlet Channel
See Sheet No. 469

412 46

See Detail
Sheet No. 469

Excavation not including
Emb. Construction
Carried from Sht. No. 469

47

House

870

4:1 3:1 10:1 Skewed

871.45
31+50
872.7

864.0

190 50

Sta. 31+11.6, 49.3' Rt.
HW-E. Headwall
Inv. 30"= 864.40

179 285

Ahead
Back

Sta. 31+10 Rt.
End Ditch

Ahead 3 258
Back 2 208

4:1 3:1 4:1

860

866.2
30" Conduit

871.75
31+00
867.8

6.6%

For Continuation Lt. Ditch
See Sheet No. 427

CALC. G.S. DATE 10/23/67

CHK'D. R.J.E DATE 10/24/67

44 193

RELOCATED CO. RD. NO. 3 (AICHOLTZ ROAD)
STA. 31+00 ~ STA. 32+50.

120 100 80 60 40 20 ℄ 20 40 60 80 100 120

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

CLERMONT COUNTY
CLE.-275-6.68

120 140

430
638

870

2:1 2:1

870.85
35+00
872.1

220 0

760 0

870

8G8.0 8G8.3

Sta. 33+47, Lt.
End Ditch

17%

870.51
34+00
871.9

54%

GGO Sodding 2 Sq. Yds.

GGO Sodding 2 Sq. Yds.

Sta. 33+45.32' Lt.
Inv. 8G6.00

HW-E

4:1 4:1 2:1

HW-E

4:1 2:1

Sta. 33+45.36' Rt.
Inv. 8G3.32

Sta. 33+45, 53' Rt.
End Work

10%

A A

G03, G8" x 24" Conduit Type A

706.02, or 706.08
@ 1.00%

G01 Rock Channel Protection
Type B 7'x8'x2" = 4 Cu. Yds.

G01 Riprap [25'x6'+5(6+4)]
= 20 Sq. Yds.

870.51
33+45
868.7

3'-0" 2'-0" 3'-0"

2'-6"

6"

G01 Rock Channel Protection

#357 Coarse Aggregate

SECTION A-A

190 0

280 84

85 82

Sta. 33+43 Lt.
End Ditch

171 68

23%

69%

870

2:1 2:1

8G8.1 8G8.4

120 0

870.61
33+00
871.0

435 0

CALC. G.S. DATE 10/23/69

CHK'D. R.J.R. DATE 10/24/69

RELOCATED CO. RD. NO. 3 (AICHOLTZ ROAD)
STA. 33+00 ~ STA. 35+00

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

431
638

CLERMONT COUNTY
CLE-275-6.68

120 140

870

2:1 2:1

93 0

872.45
39+00
871.8

357 0

870

100 0

872.05
38+00
871.7

380 0

870

105 0

120 0

871.65
37+00
871.4

870

2:1 2:1

122 0

871.25
36+00
871.6

633 0

CALC. G.S. DATE 10/23/69

CHK'D R.J.R. DATE 10/24/69

RELOCATED CO. RD. NO. 3 (AICHOLTZ ROAD)
STA. 36+00 ~ STA. 39+00.

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

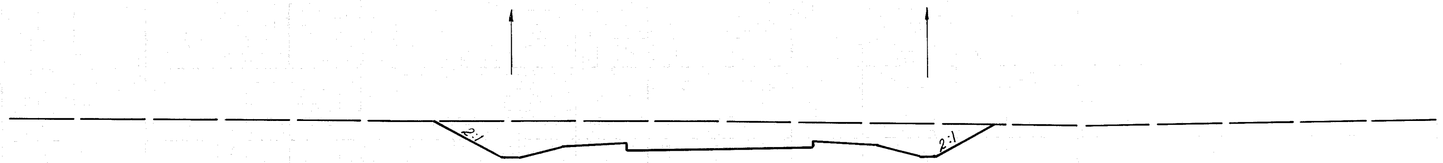
140 120 100 80 60 40 20 ℄ 20 40 60 80 100

432
638

CLERMONT COUNTY
CLE.-275-6.68

120 140

870

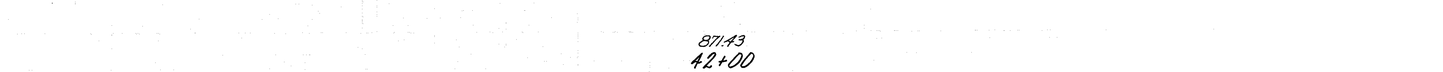


260 0

869.93
43+00
872.4

917 0

870

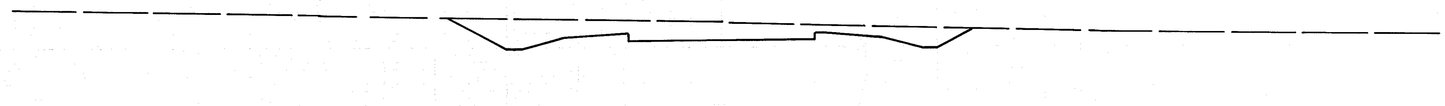


235 0

871.43
42+00
873.6

732 0

870



160 0

872.35
41+00
873.4

163 0

870

90 0

872.69
40+00
872.7

339 0

CALC. G.S. DATE 10/23/69

CHK'D R.J.R. DATE 10/24/69

RELOCATED CO. RD. NO 3. (AICHOLTZ ROAD)
STA. 40+00 ~ STA. 43+00.

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

140 120 100 80 60 40 20 ℄ 20 40 60 80 100

433
638

CLERMONT COUNTY
CLE.-275-6.68

120 140

870

510 0

2:1 2:1

858.93
47+00
864.3

1805 0

870

445 0

862.05
46+00
866.9

1,593 0

STA. 28+42 ~ STA. 45+00	
203 Excavation	9860 Cu. Yds.
203 Embankment	689 Cu. Yds.
659 Seeding & Mulching	Sq. Yds.

870

415 0

865.15
45+00
868.8

1361 0

870

320 0

2:1 2:1

867.33
44+00
870.7

1,074 0

DWG G.S. DATE 10/23/67

CHK'D R.I.R. DATE 10/24/67

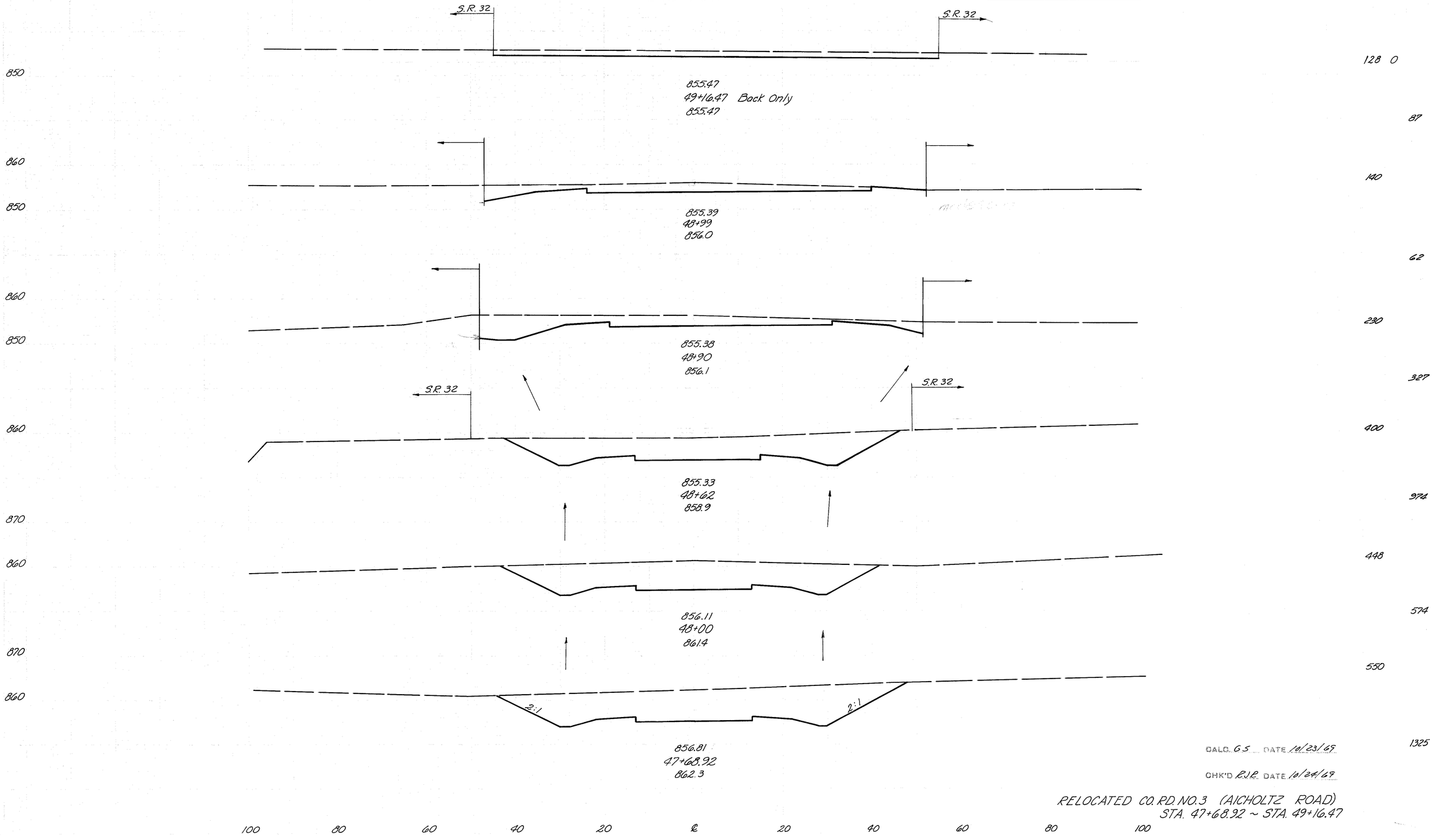
RELOCATED CO. RD. NO. 3 (AICHOLTZ ROAD)
STA. 44+00 ~ STA. 47+00

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

STA. 45+00 ~ STA. 49+16.47		
203 Excavation	6747	Cu. Yds.
203 Embankment	0	Cu. Yds.
659 Seeding & Mulching		Sq. Yds.

CLERMONT COUNTY
CLE.-275-6.68

STA. 49+16.47
END WORK



434		
638		
	128	0
87		
	140	
62		
	230	
327		
	400	
974		
	448	
574		
	550	
1325		

CALC. G.S. DATE 10/23/67

CHK'D R.V.R. DATE 10/24/67

RELOCATED CO. RD. NO. 3 (AICHOLTZ ROAD)
STA. 47+68.92 ~ STA. 49+16.47

40 20 ℄ 20 40

End Area Cut	End Area Fill	Volume Cut	Volume Fill	
				860
2	9			
		76	5	
167	2			860
		186	1	
		12		
235	0			860
		140	0	
68	0			860
		32	0	
2	0			860
		1	0	
0	0			860
		44.7	6	TOTAL

TOTAL EXCAVATION 447
TOTAL EMBANKMENT 6
Quantities Carried to Sheet No. 426

S.R. 32

858.36
8+75

Match Line B

S.R. 32

860

Match Line B

858.86
8+50

C.B. Sta. 8+42 6.15 R.P.
Grate Elev. 855.60
Inv. 18"= 852.44

203 Excavation Not Including Embankment Construction From Sht. No. 471

Sta. 8+27
18" Conduit 4° R.F.

Match Line A

S.R. 32

858.49
8+25

Match Line A

4:1 2:1

855.5

820

858.35
8+00

4:1 2:1

856.0

858.51
7+75

STA. 7+68 ±
BEGIN WORK

858.64
7+50

AICHOLTZ RD.
CUL-DE-SAC

40 20 ℄ 20 40

20 ℄ 20

0+55 0+40 0+35 0+15 0+11 0+28

End Work

827.25 827.49 827.54 827.63

Borgs Salt Run. Rd.

1.3%

PROFILE OF TURN AROUND

ZERO STATION
0+46

TOTAL EXCAVATION 32
TOTAL EMBANKMENT 12
Quantities Carried to Sheet No. 348

827.13
0+40
826.6

END PAVEMENT

827.25
0+35
826.5

820

8:1 8:1

827.49
0+15
826.6

820

6:1 6:1

827.54
0+11
825.5

820

0+02.8
827.63

BARGS SALT RUN RD.
TURN AROUND

20 ℄ 20

End Area Cut	End Area Fill	Volume Cut	Volume Fill	
0	0			820
		2	1	
13	7			
		2	1	
13	2			820
		13	2	
22	3			820
		2	3	
0	30			820
		13	5	
85	0			820
		32	12	TOTAL

2+71
END WORK

CLERMONT COUNTY
CLE.-275-6.68

820

2:1

℄Inv. 813.65 ℄Inv. 814.40

TOTAL EXCAVATION 241
TOTAL EMBANKMENT 0
Quantities Carried to Sheet No. 348

2+67

12:1 3.5:1 2:1

815.11

2+35

Sta. 0+46 End Work
"T" Turnaround

2-12" Conduit

2+10

7.6:1 2:1

816.01

1+85

4:1 2:1

816.46

1+60

2:1 2:1

817.41

1+10

2:1 2:1

817.93

0+80

0	0	
3	0	
45	0	
48	0	
36	0	
34	0	
38	0	
30	0	
27	0	
25	0	
28	0	
58	0	
35	0	
43	0	
43	0	
241	0	Total

CALC. L.M. DATE 8/15/68

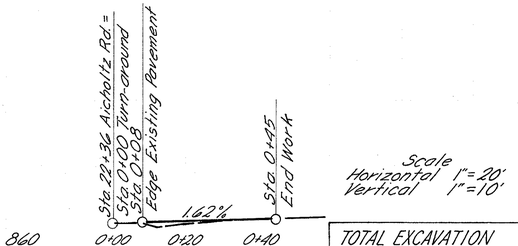
BARGS SALT RUN RD.
TURN AROUND

CHK'D R.J.C. DATE 8/19/68

AICHOLTZ RD. CUL-DE-SAC
BARGS SALT RUN RD. TURN AROUNDS

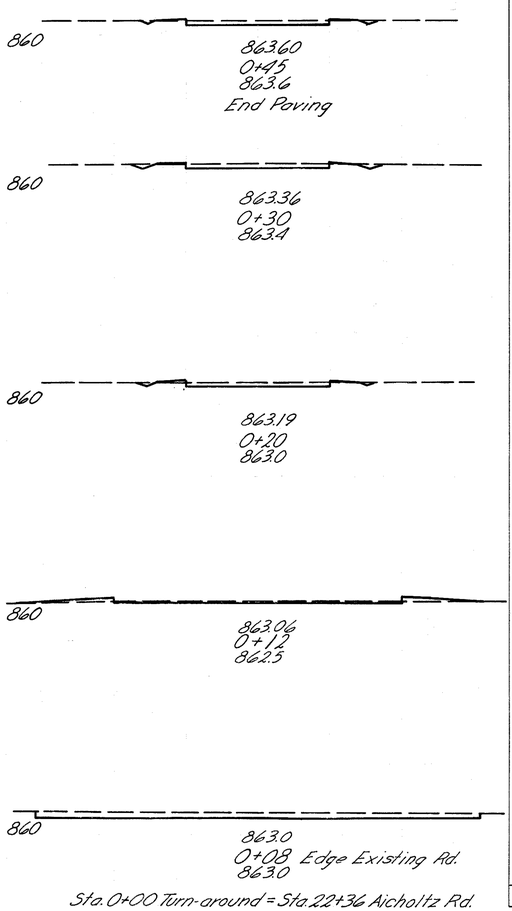
20 ℄ 20 40

CLERMONT COUNTY
CLE-275-6.68



TOTAL EXCAVATION 35
TOTAL EMBANKMENT 6
Quantities Carried to Sheet No. 420

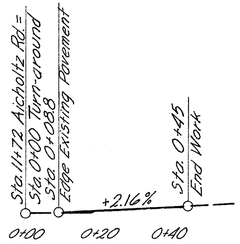
0+54
ZERO SECTION



End Area		Volume	
Cut	Fill	Cut	Fill
		3	1
22	1		
		12	1
22	1		
		8	1
22	1		
		6	2
		6	1
62	0		
		85	6

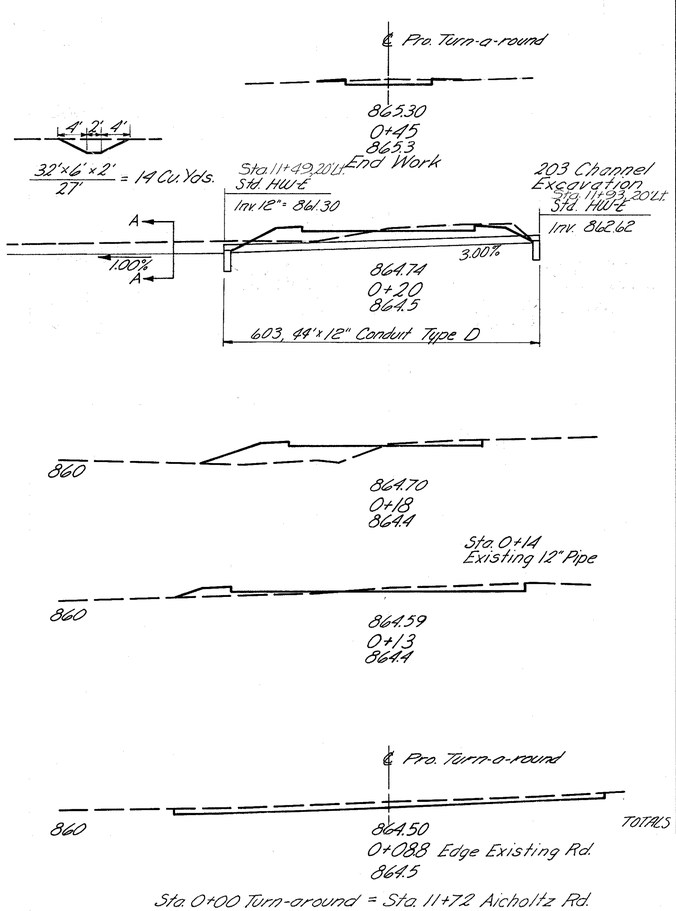
Sta. 0+00 Turn-around = Sta. 22+36 Aicholtz Rd.

AICHOLTZ ROAD
TURN-AROUND



TOTAL EXCAVATION 37
TOTAL EMBANKMENT 21
Quantities Carried to Sheet No. 426

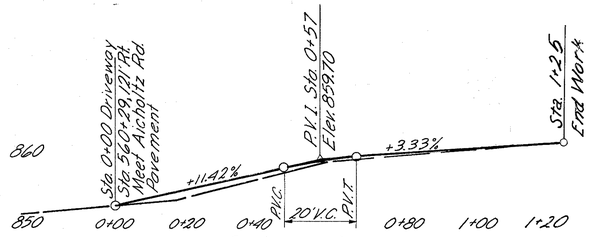
0+48
ZERO SECTION



End Area		Volume	
Cut	Fill	Cut	Fill
0	0		
		1	1
12	1		
		11	12
		14	
12	2.5		
		1	2
8	40		
		3	5
20	15		
		7	1
60	0		
TOTALS		37	21

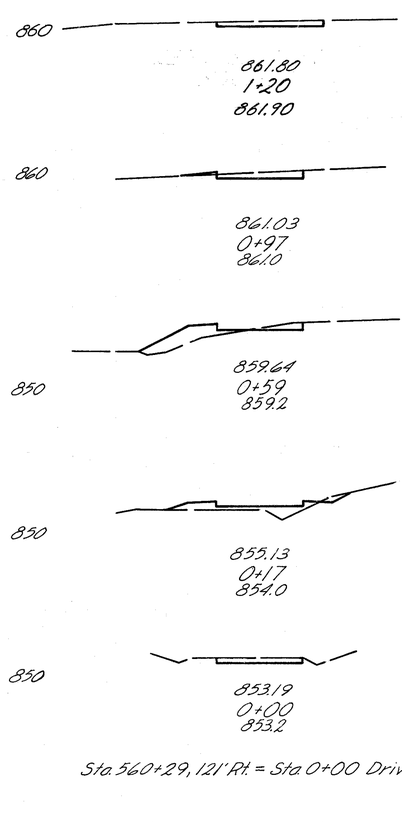
Sta. 0+00 Turn-around = Sta. 11+72 Aicholtz Rd.

AICHOLTZ ROAD
TURN-AROUND



TOTAL EXCAVATION 29
TOTAL EMBANKMENT 45
Quantities Carried to Sht. No. 404

ZERO SECTION
1+30



Sta. 560+29, 121' Rt. = Sta. 0+00 Driveway

0	0		
		2	0
12	0		
		9	1
		10	14
		4	19
		5	26
		2	14
		3	4
		6	0
Totals		29	45

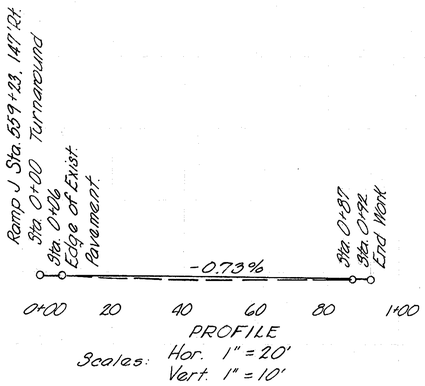
AICHOLTZ RD. TURN-AROUND
AICHOLTZ RD. TURN-AROUND
AICHOLTZ RD. DRIVEWAY

CAL.C. LM DATE 8/15/68
CHK'D R.H.R. DATE 8/19/68

20 ℄ 20 | 20 ℄ 20 | 20 ℄ 20

437
638

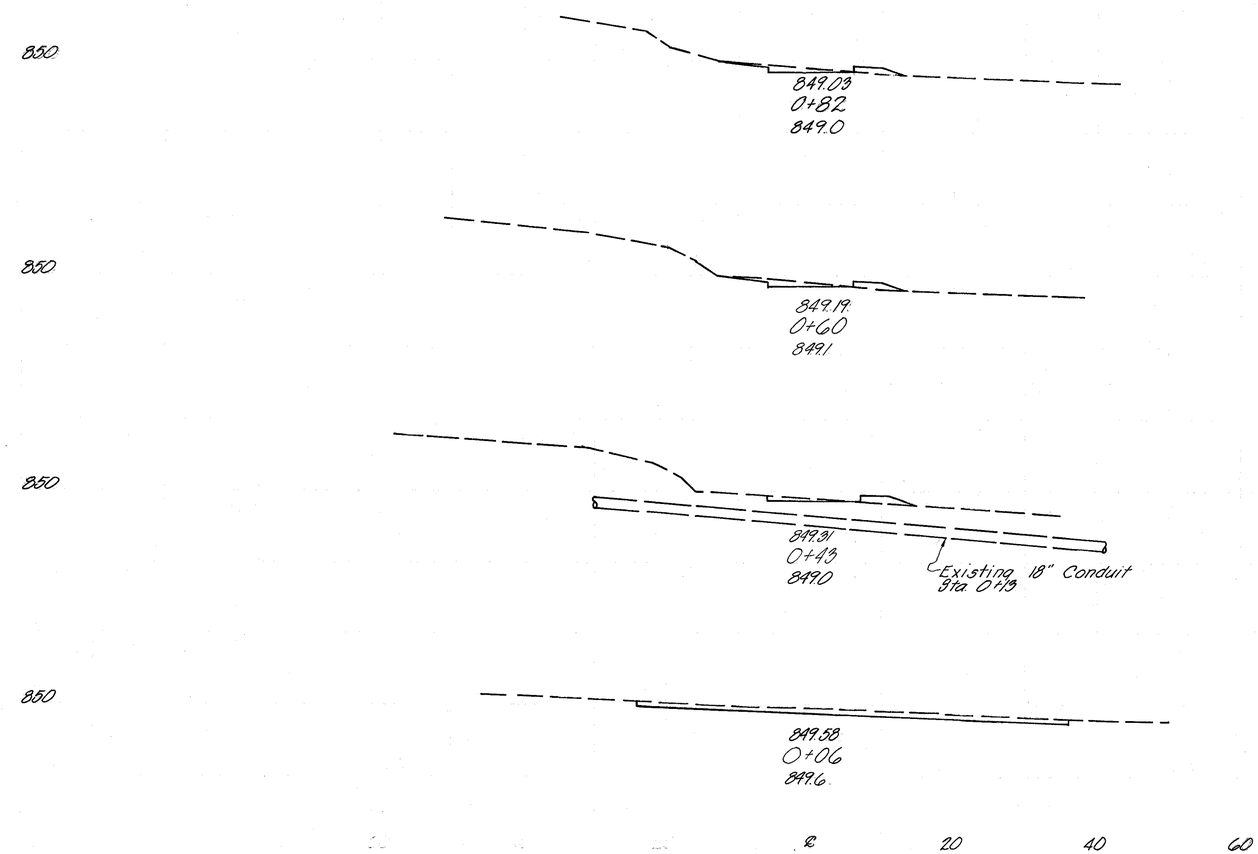
CLERMONT COUNTY
CLE.-275-6.68



PROFILE
Scales: Hor. 1" = 20'
Vert. 1" = 10'

ZERO SECTION
0+92

TOTAL EXCAVATION	17 C.Y.
TOTAL EMBANKMENT	35 C.Y.
Quantities Carried to Sheet No. 426	



0 0
2 1
9 5
8 4
10 6
4 4
4 6
3 26
0 32

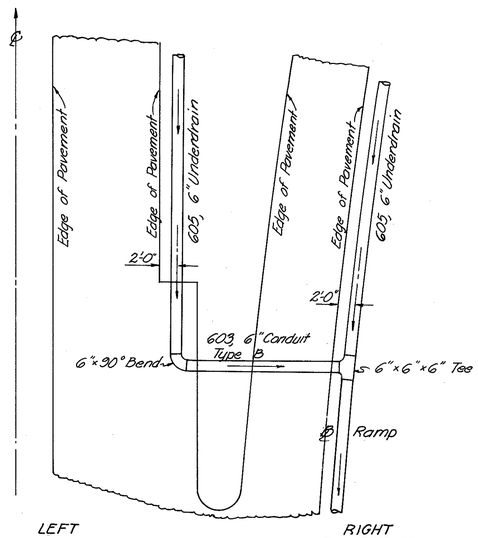
DRN'D. L.M. DATE 8/18/68
CHK'D. R.J.R. DATE 8/18/68

AICHOLTZ RD. TURNAROUND

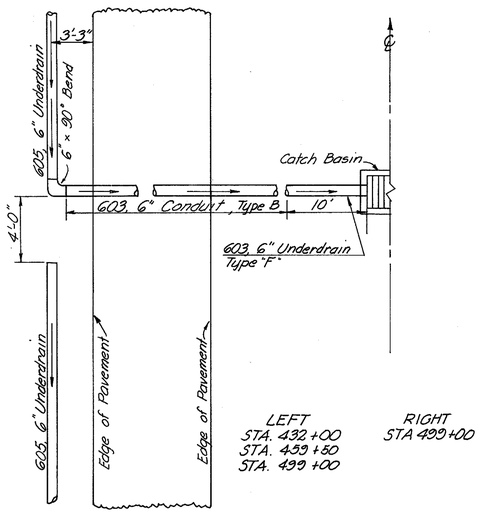
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

438
638

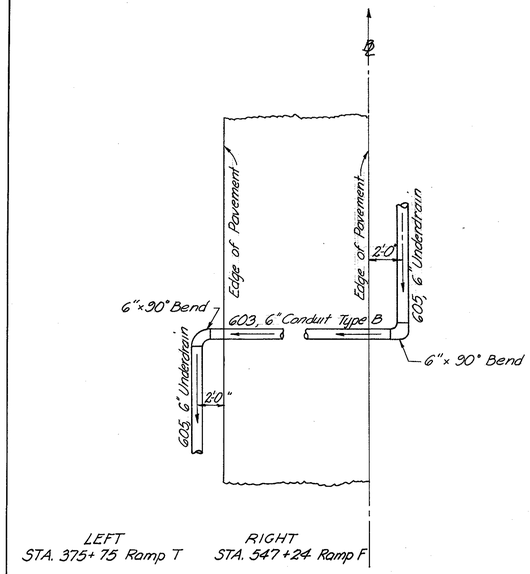
CLERMONT COUNTY
CLE.- 275- 6.68



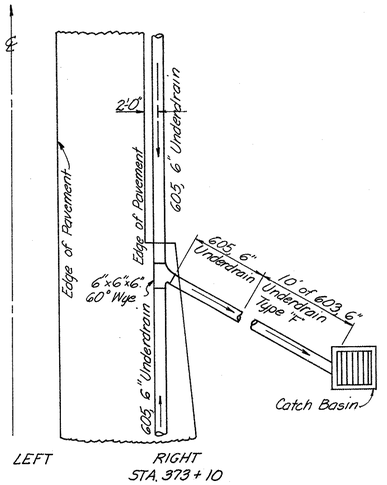
DETAIL "A"



DETAIL "B"



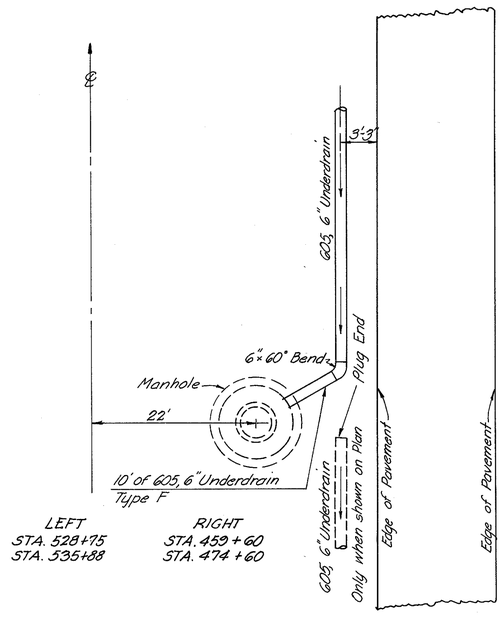
DETAIL "C"



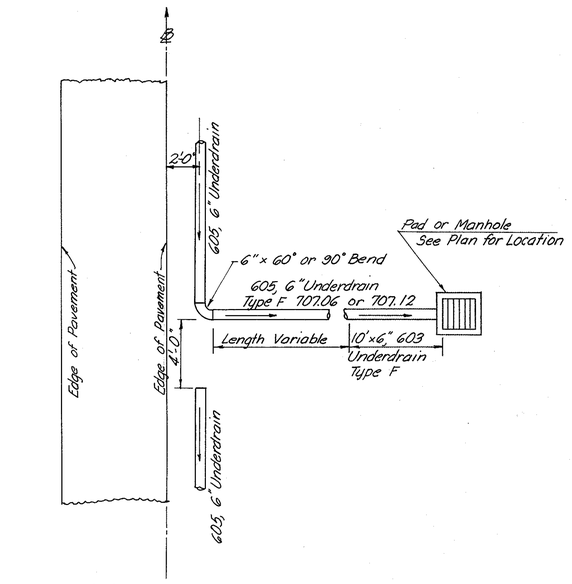
DETAIL "D"

NOT USED

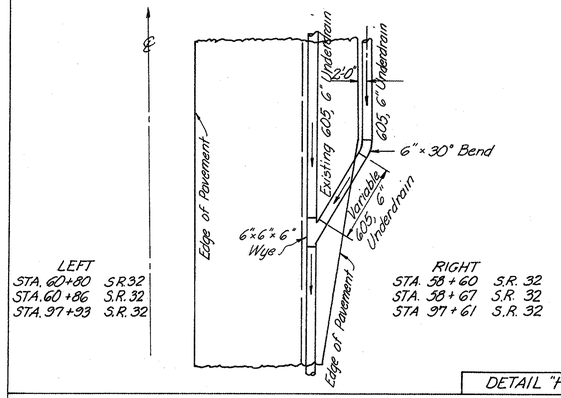
DETAIL "E"



DETAIL "F"



DETAIL "G"



DETAIL "H"

NOTES:

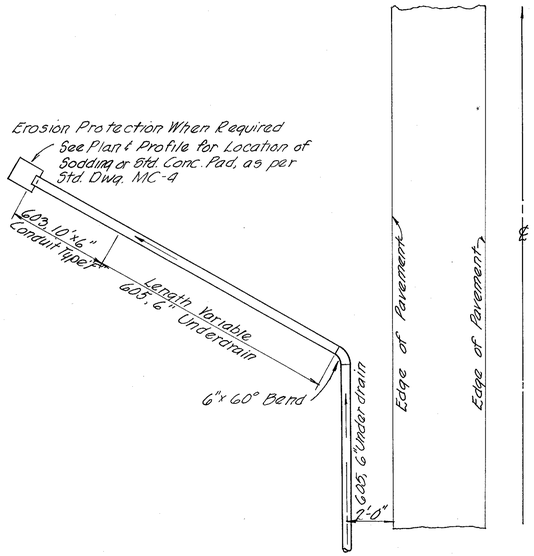
1. Details shall be modified as required.
2. The distance from the edge of pavement to underdrain lines shall be taken from Typical Sections, unless otherwise shown on plans.
3. Underdrains crossing over any Type B or C Conduit shall have a minimum length of 10 feet of Type F Conduit to span the pipe trench. Same applies for Type A Conduits if the underdrain crosses within one foot of the granular backfill.
4. The last 10'-0" of all 6" Underdrain not under pavement that outlet in Catch Basins, manholes, or top headwalls, and thru roadway slopes to Concrete or Dumped Rock Pads, also Special Sodding areas, shall be 603 6" Conduit Type F."

603 & 605 6" PIPE UNDERDRAIN DETAILS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

439
638

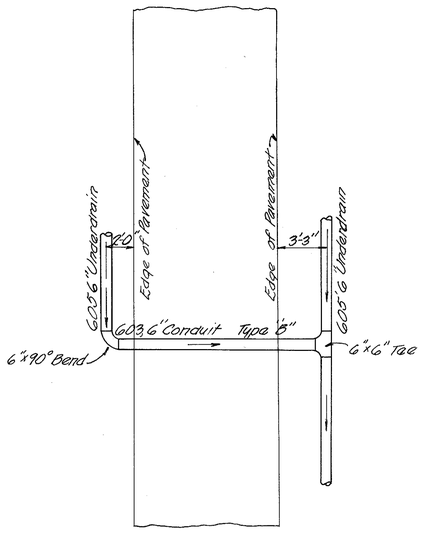
CLERMONT COUNTY
CLE-275-6.68



LEFT
Sta. 98+57 (S.R. 32)

RIGHT

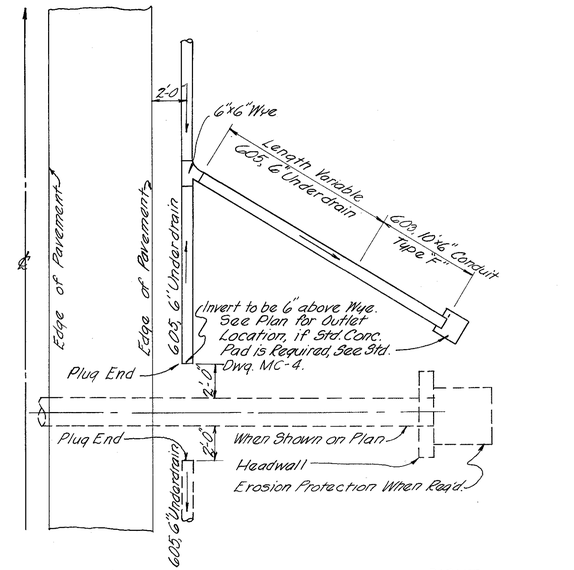
DETAIL "I"



LEFT
Sta. 428+85

RIGHT

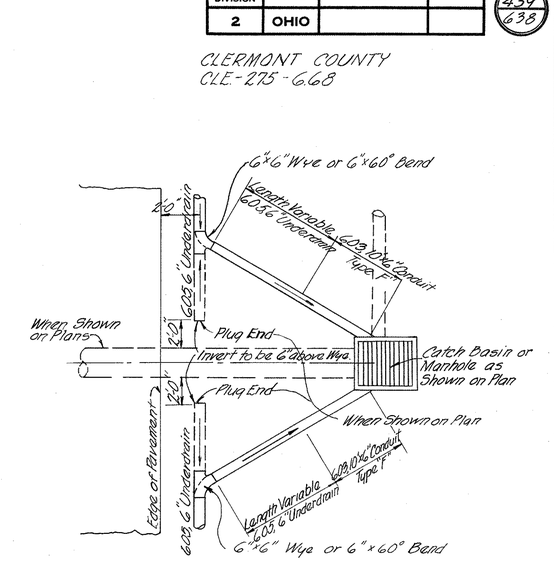
DETAIL "J"



LEFT
Sta. 528+91

RIGHT
Sta. 417+25
Sta. 495+53
Sta. 528+80
Sta. 65+40 (S.R. 32)

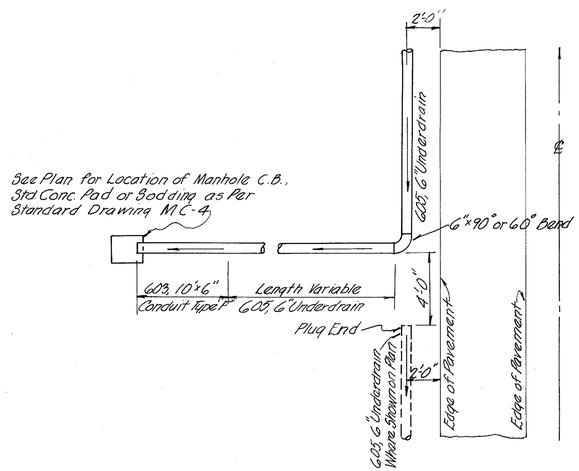
DETAIL "K"



LEFT
Sta. 554+64 (Ramp "H")

RIGHT
Sta. 392+00 (Ramp "Y")

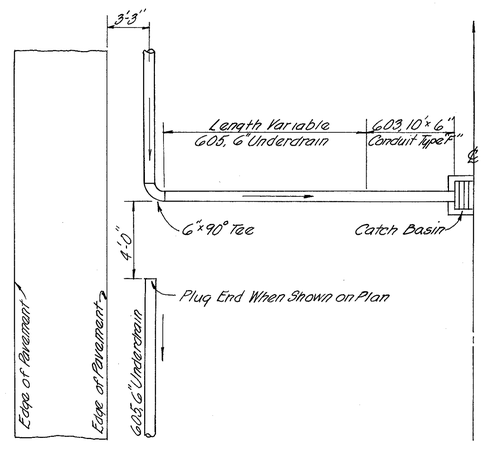
DETAIL "L"



LEFT
Sta. 513+27

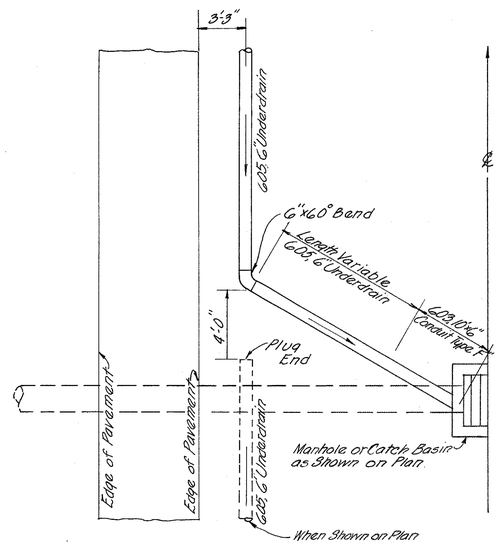
RIGHT
Sta. 374+88
Sta. 448+50
Sta. 513+16
Sta. 81+64 (S.R. 32)
Sta. 77+84 (S.R. 32)

DETAIL "M"



LEFT
Sta. 417+00

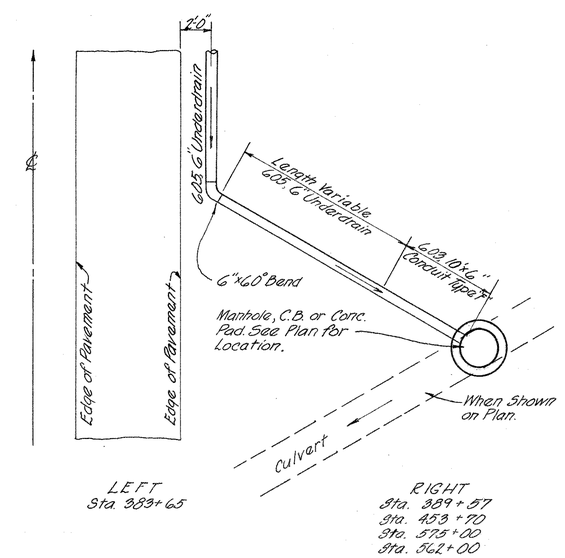
DETAIL "N"



LEFT
Sta. 407+70

RIGHT
Sta. 565+22
Sta. 575+22

DETAIL "O"



LEFT
Sta. 383+65

RIGHT
Sta. 389+57
Sta. 453+70
Sta. 513+00
Sta. 562+00

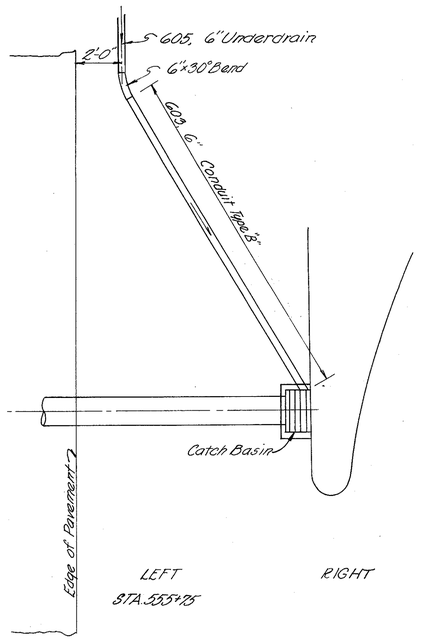
DETAIL "P"

603 & 605, 6 PIPE UNDERDRAIN DETAILS

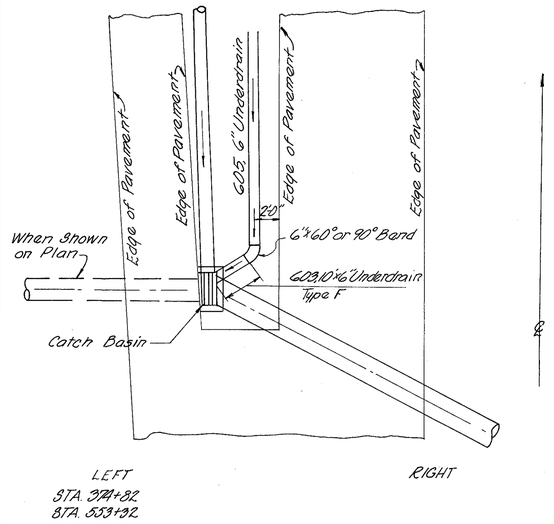
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

440
638

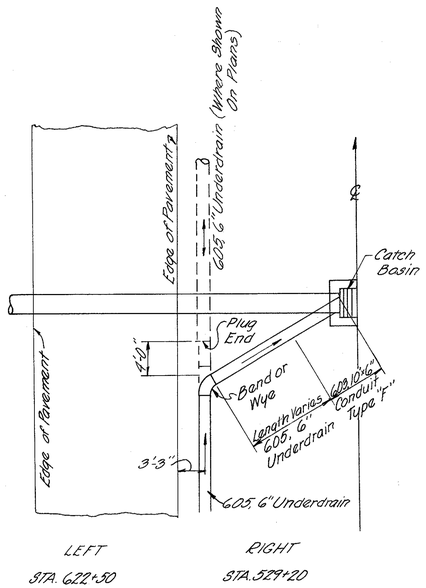
CLERMONT COUNTY
CLE - 27.5 - 6.68



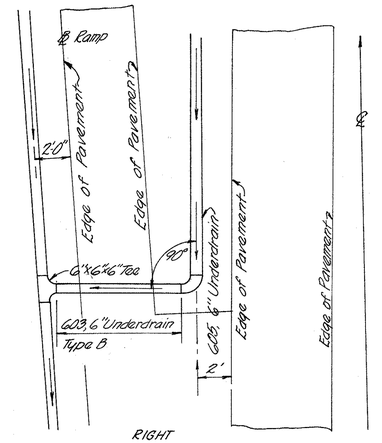
DETAIL "Q"



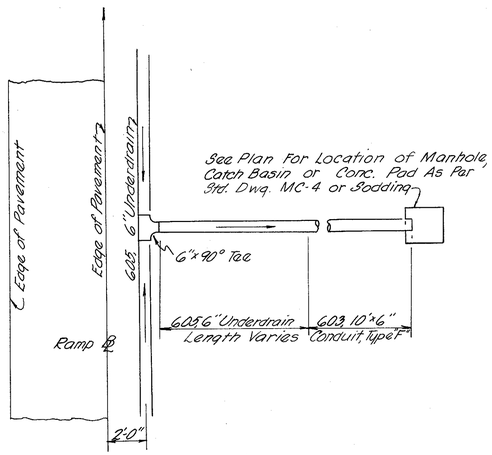
DETAIL "R"



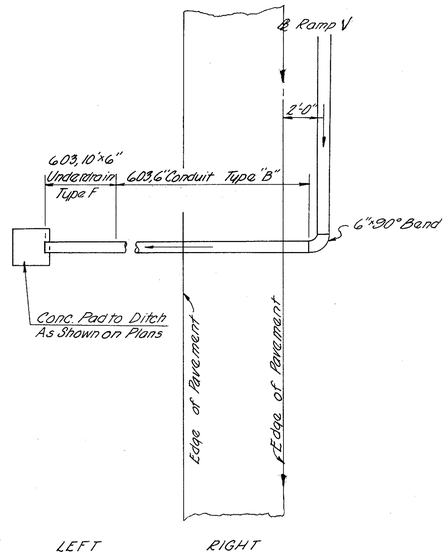
DETAIL "S"



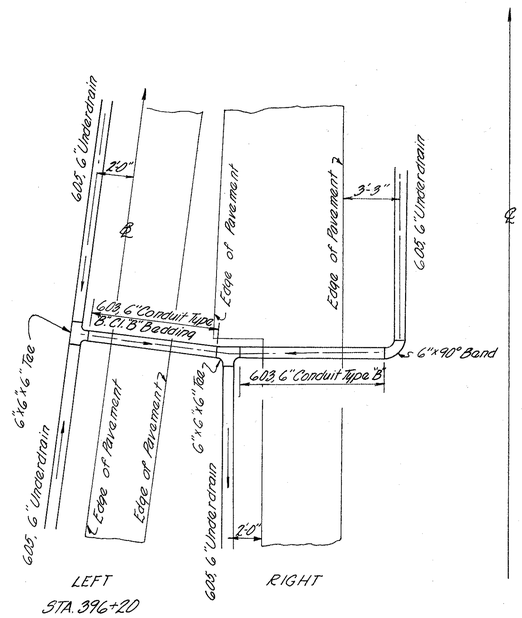
DETAIL "T"



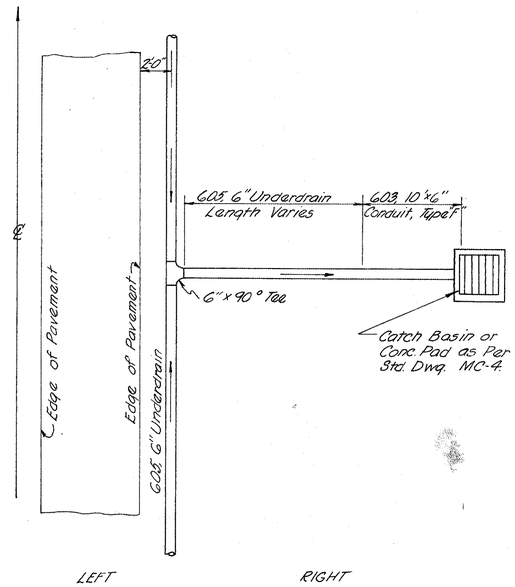
DETAIL "U"



DETAIL "V"



DETAIL "W"



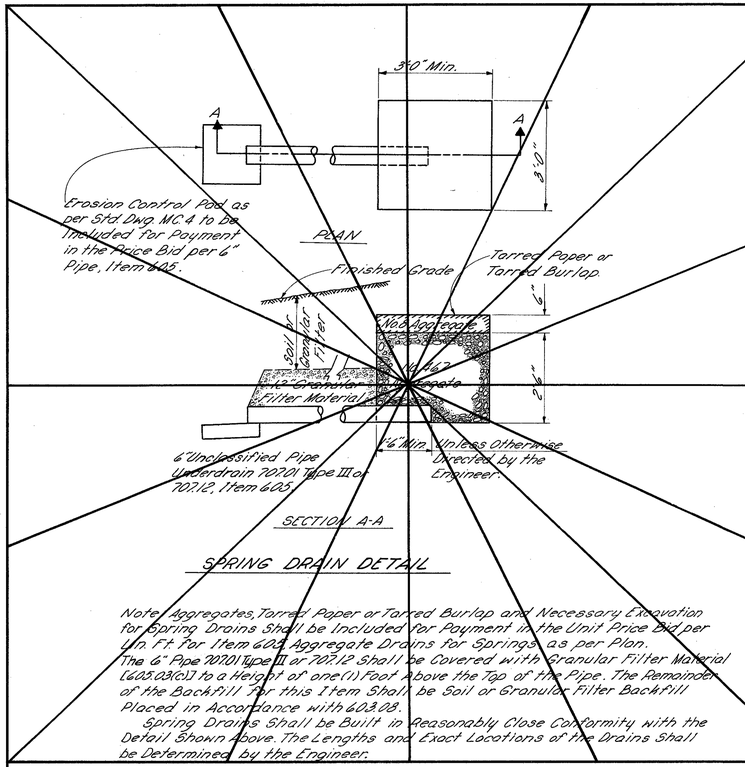
DETAIL "X"

603 & 605, 6" PIPE UNDERDRAIN DETAILS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

441
638

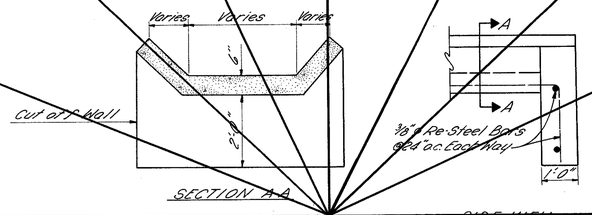
CLERMONT COUNTY
CLE.-275-6.68



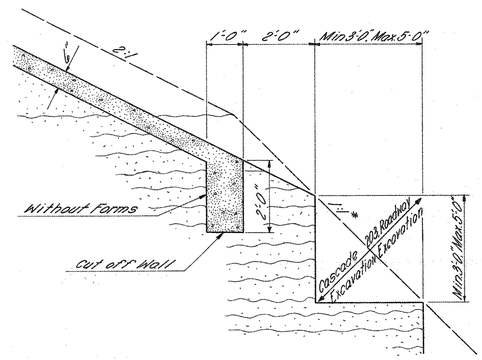
SPRING DRAIN DETAIL

Note: Aggregates, Tarred Paper or Tarred Burlap and Necessary Excavation for Spring Drains Shall be Included for Payment in the Unit Price Bid per Lin. Ft. For Item 607.1 Aggregate Drains for Springs as per Plan. The 6" Pipe 707.01 Type III or 707.12 Shall be Covered with Granular Filter Material [605.03(c)] to a Height of one(1) Foot Above the Top of the Pipe. The Remainder of the Backfill for this Item Shall be Soil or Granular Filter Backfill Placed in Accordance with 603.08.

Spring Drains Shall be Built in Reasonably Close Conformity with the Detail Shown Above. The Lengths and Exact Locations of the Drains Shall be Determined by the Engineer.

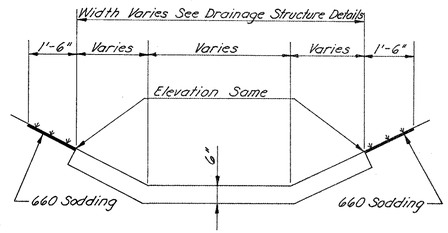


CUT OFF WALL DETAIL
Scale: 1/2"=1'0"

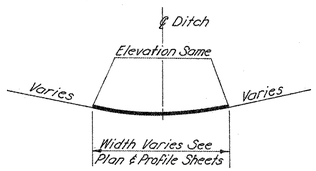


ROCK CASCADE AND PAVED DITCH KEY DETAIL
Scale: 1/2"=1'0"

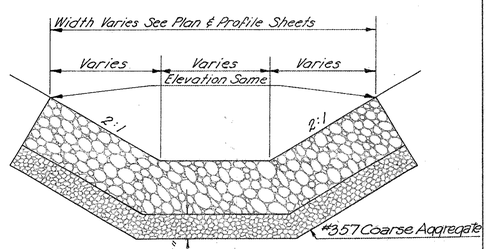
*Note:
Excavation for Cascades Shall be Paid For at the Unit Price Bid per Item 203, Excavation Including Embankment Construction.



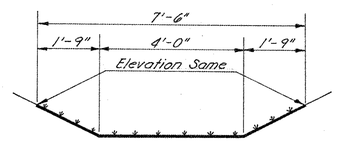
601 RIPRAP



667 JUTE MATTING
Placed in 20' Radius Ditch



601 ROCK CHANNEL PROTECTION



660 SODDING

MISCELLANEOUS DRAINAGE DETAILS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

442
638

CLERMONT COUNTY
CLE. 275-6.68

660 Sodding 1'-6" Wide 3 Sq. Yds.
Sta. 386+00 Lt. Ramp "V"
Limit of Quantities this Detail
601 Rock Channel Protection Type B 25'x10'x3' = 28 Cu. Yds.
Meet Existing Channel Sta. 3+86
Sta. 385+50 Lt. Ramp "V"
12"
30"x15" Tee
Sta. 388+56
Sta. 389+00 ℄
Sta. 389+50.15 79' Rt.
21" Conduit
90" Conduit
50' R/F
℄ SURVEY CLE-275
385 RAMP "V"
388 RAMP "U"
For Detail See Sheet No. 471
660 Sodding 1'-6" Wide, 27 Sq. Yds.
601 Riprap 75 Sq. Yds.
Cut Off Wall 8'x2'-6"x9"
Meet Existing Channel, Sta. 3+37
Cut Off Wall, 8'x2'-6"x9"
660 Sodding 1'-6" Wide, 2 Sq. Yds.
660 Sodding 1'-6" Wide 2 Sq. Yds.
601 Riprap 54 Sq. Yds.
Meet Existing Channel, Sta. 2+97
Cut Off Wall, 8'x2'-6"x9"
660 Sodding 1'-6" Wide, 19 Sq. Yds.
Cut Off Wall, 8'x2'-6"x9"

PLAN
0 50 100

3'-0" 4'-0" 3'-0"
4'-4" 1'-4" 4'-4" At Headwall
2:1 2'-6" 2:1
℄
#357 Coarse Aggregate
601 Rock Channel Protection TypeB
SECTION B-B

At Headwall of 24" 3'-5" 1'-0" 3'-5"
2'-0" 4'-0" 2'-0"
At Headwall of 30" 1'-6" 3'-4" 1'-4" 3'-4" 1'-6"
660 Sodding
2:1
660 Sodding
601 Riprap
SECTION A-A

603, 484'x30" Conduit Type "B" 706.02 Cl. V @ 3.74%
℄ RAMP "V"
℄ SURVEY CLE-275
123'-0"
R.G. 673.37
Guard Rail
R.G. 667.06
R.G. 668.07
34'-0"
657.41
30"x15" Tee
3.74%
Sta. 3+61
25'-0"
601 Rock Channel Protection Type B 25'x10'x3'
Ramp "V" Sta. 385+89.70 Lt.
HW-E
Inv. 30" = 641.92
603 130'x30" Conduit Type "B" @ 5.37%
2+53
82'-0"
77'-0"
Elev. 679.0
℄ Ramp "U"
R.G. 673.94
5'-0"
Meet Existing Ditch Sta. 3+37, Elev. 679.5
Depress 3" to 6" below Channel
Cut Off Wall 8'-0"x2'-6"x9"
601 Riprap
5.37%
Ramp "U" Sta. 390+45, 36' Rt.
HW-E
Inv. 30" = 666.98
M1 Sta. 389+50.15, 79' Rt.
604 Std. No. 1 M.H.
Top Elev. = 667.94
Inv. 21" = 660.77
Inv. 24" = 660.50
Inv. 30" = 660.00
Inv. 6" = 664.05
2+37
58'-0"
53'-0"
Elev. 686.0
Meet Existing Ditch Sta. 2+97, Elev. 686.8
Depress 3" to 6" below Channel
Cut Off Wall 8'-0"x2'-6"x9"
R.G. 678.26
601 Riprap
18"
11.30%
Ramp "U" Sta. 388+01, 35' Rt.
HW-E
Inv. 24" = 673.60
603 116'x24" Conduit Type "A" 706.02 or 706.08 @ 11.30%
660
670
680
650

PROFILE
Vertical 0 10 20
Horizontal 0 50 100

24" Conduit
Drainage Area = 4 Acres
Q 50 = 22 c.f.s.

30" Conduit
Drainage Area = 10 Acres
Q 50 = 43 c.f.s.

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNIT
□ 203	Excavation Not Including Embankment Construction	1615	Cu. Yds.
660	Sodding	53	Sq. Yds.
601	Riprap Using 6" Reinf. Conc. Slab	129	Sq. Yds.
602	Concrete Masonry	143	Cu. Yds.
603	24" Conduit Type "A" 706.02 or 706.08	116	Lin. Ft.
603	30" Conduit Type "B"	130	Lin. Ft.
603	30" Conduit Type "B" 706.02 Cl. V	484	Lin. Ft.
604	Std. No. 1 Manhole	1	Each
	30" x 15" Tee	1	Each
601	Rock Channel Protection, Type B	28	Cu. Yds.
□ 203	Embankment	90	Cu. Yds.

□ Quantities Carried to Sheet No. 153

Quantities Carried to Sheet Nos. 36 & 60

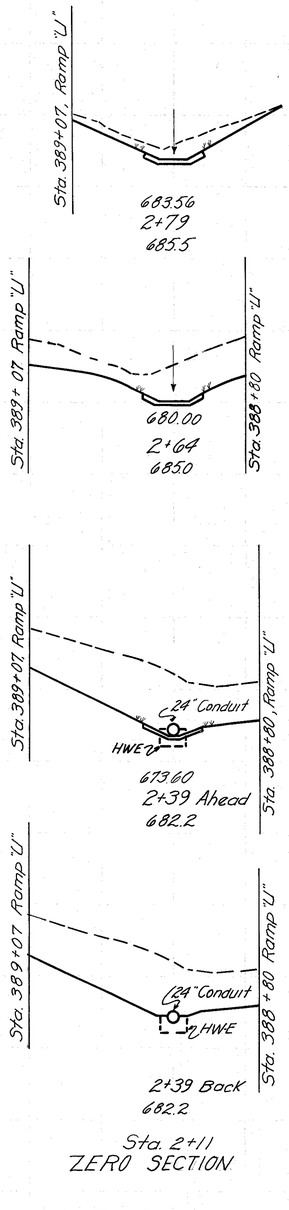
CALC. J.J.Z. DATE 2/9/67

CHK'D. R.J. DATE 10/20/69

DRAINAGE STRUCTURE
STA. 388+56

CLERMONT COUNTY
CLE-275-6.68

2+97
ZERO SECTION
End Riprap

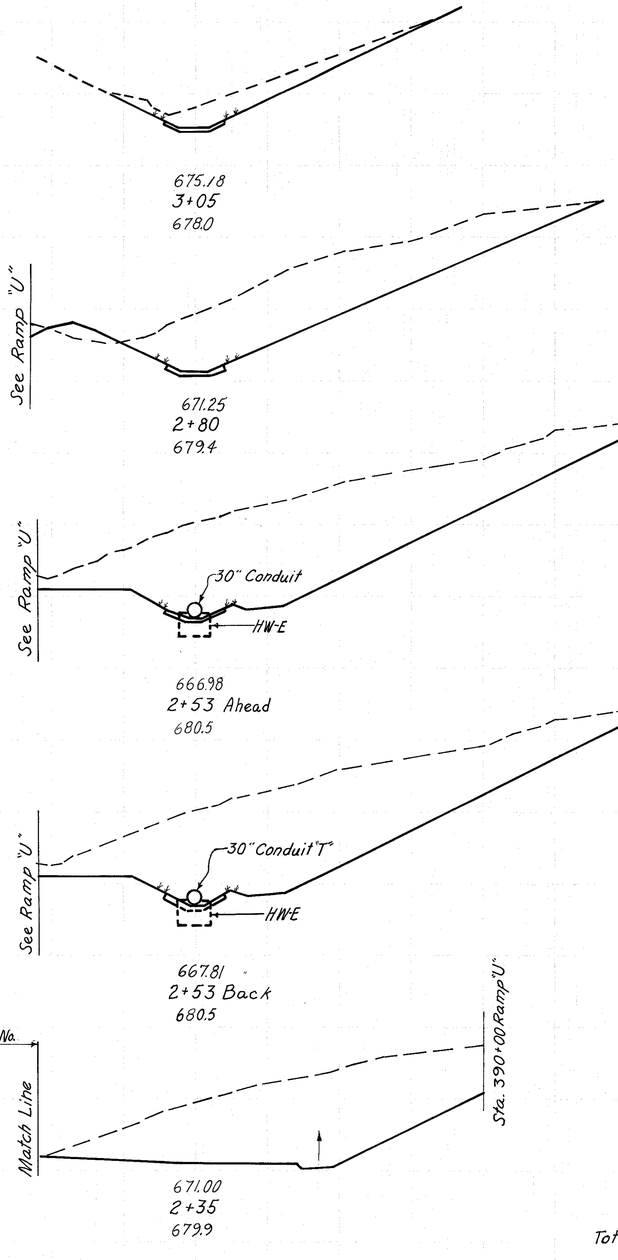


Sta. 2+11
ZERO SECTION

Cut	
End Area	Vol
0	
	12
41	
	670
	38
	670
95	
	148
	660
224	
	660
215	
	112
	670
0	
Total	310

INLET STA. 2+39 RT

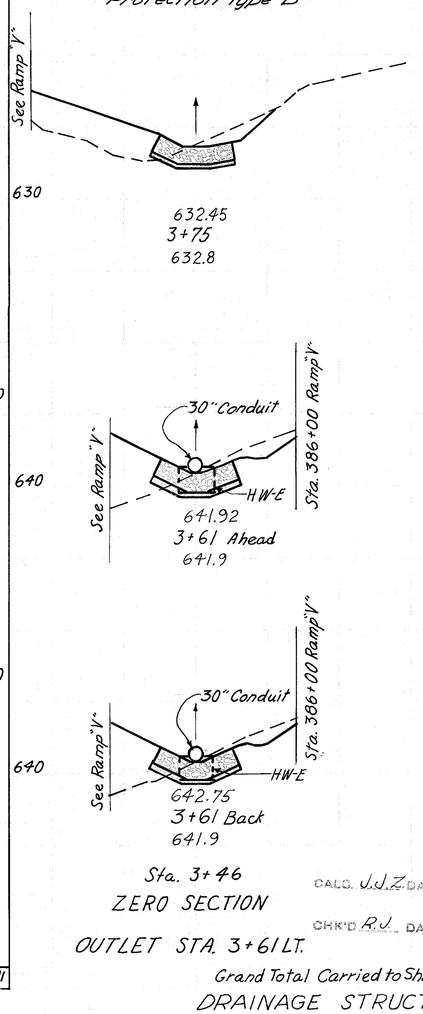
3+37
ZERO SECTION
End Riprap



End Area		Vol.	
Cut	Fill	Cut	Fill
0	0		
		44	0
80	0		
		240	5
440	11		
		582	
			630
724	0		
			0
719	0		
		417	0
531	0		
Total		1283	11

INLET STA. 2+53 RT.

Sta. 3+86
ZERO SECTION
End Rock Channel Protection Type "B"



Sta. 3+46
ZERO SECTION

CALC. J.J.Z DATE 2/9/67
CHK'D R.J. DATE 10/20/69

OUTLET STA. 3+61 LT.

Grand Total Carried to Sht No. 442 Total

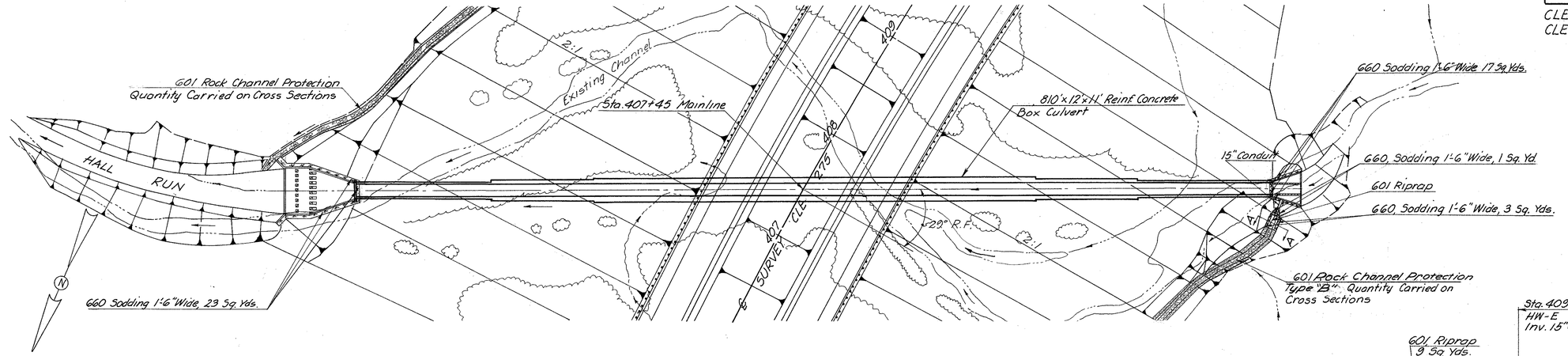
DRAINAGE STRUCTURE
STA. 388+56

0 0
5 22
21 93
11 41
21 64
21 65
6 16
0 0
22 79
1615 90

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

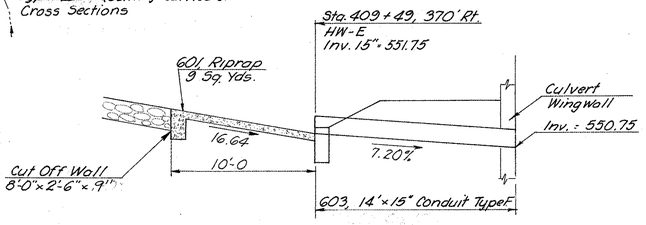
444
638

CLERMONT COUNTY
CLE-275-6.68



PLAN

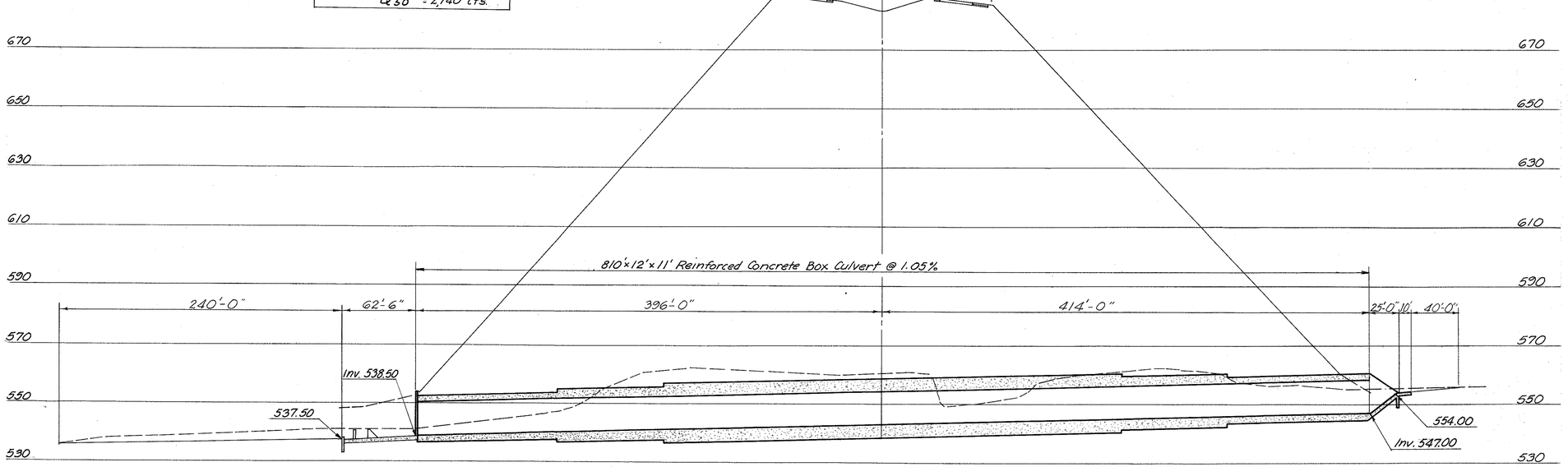
0 50 100



ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	QUANTITY	UNIT
503	Unclassified Excavation Including Rock	7445	Cu.Yd.
509	Reinforcing Steel	1,378,479	Lbs.
511	Class C Concrete	8256	Cu. Yds.
601	Riprap Using 6" Reinf. Conc. Slab	9	Sq. Yds.
602	Masonry	0.26	Cu. Yds.
603	15" Conduit Type F	14	Lin. Ft.
660	Sodding	44	Sq. Yds.
513	Structural Steel	2709	Lbs.

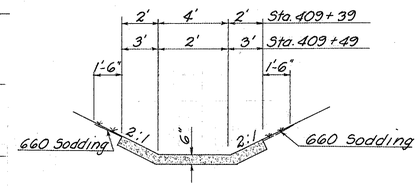
Quantities Carried to Sheet No. 40

Drainage Area = 3.244 Acres
Q 50 = 2,740 cfs.



PROFILE

Horizontal 0 50 100
Vertical 0 20 40



SECTION A-A

Note: For 20 Scale Structure Detail of Box Culvert See Sheet No. 446

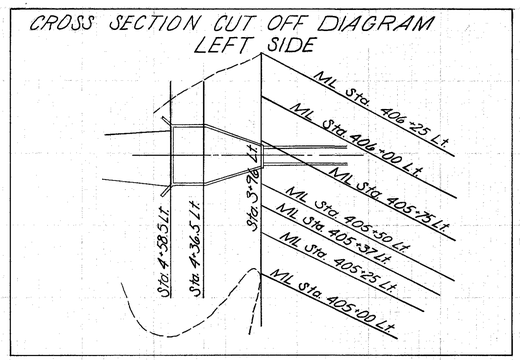
CALC. K.A.B. DATE 4/25/67

CHK'D C.R.S. DATE 7/6/67

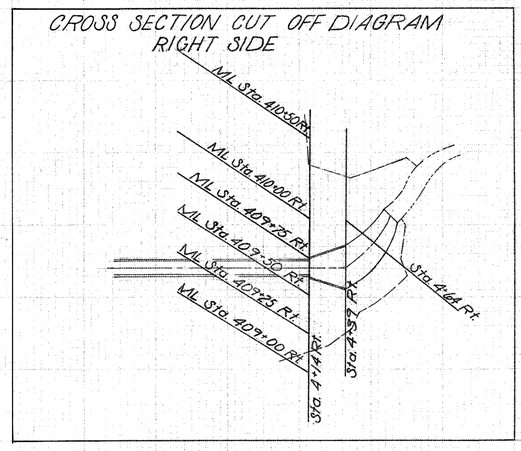
DRAINAGE STRUCTURE
STA. 407+45

CLERMONT COUNTY
CLE-275-6.68

CROSS SECTION CUT OFF DIAGRAM LEFT SIDE



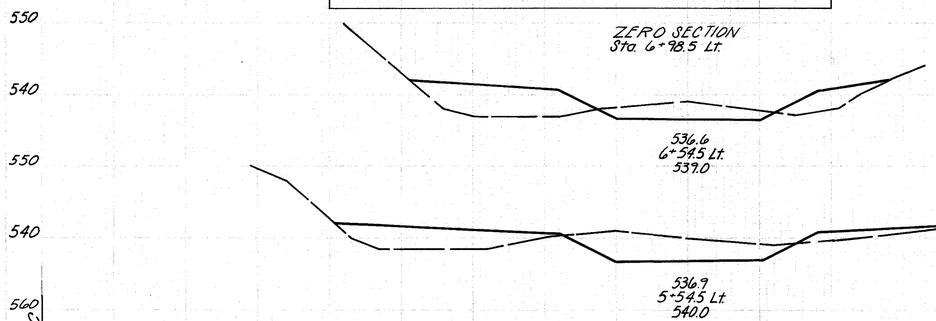
CROSS SECTION CUT OFF DIAGRAM RIGHT SIDE



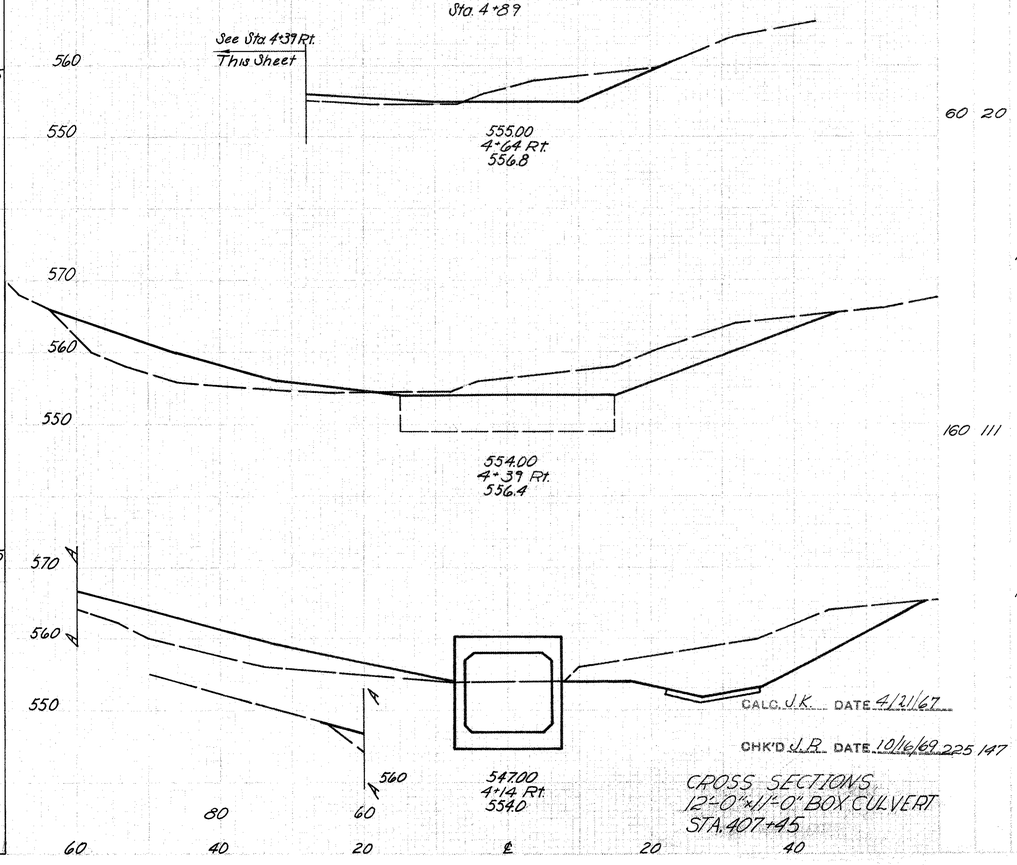
END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0		
		35	90
43	110		
		256	383
95	97		
		997	395
466	125		
		327	143
338	226		
		298	725
59	741		

Total Excavation 2221
Total Embankment 1925
Carried to Sheet No. 108

ZERO SECTION
Sta. 6+98.5 Lt.



ZERO SECTION
Sta. 4+89



0 0
60 20
102 61
160 111
178 119

CALC. J.K. DATE 4/21/67
CHK'D J.R. DATE 10/16/69 225 147

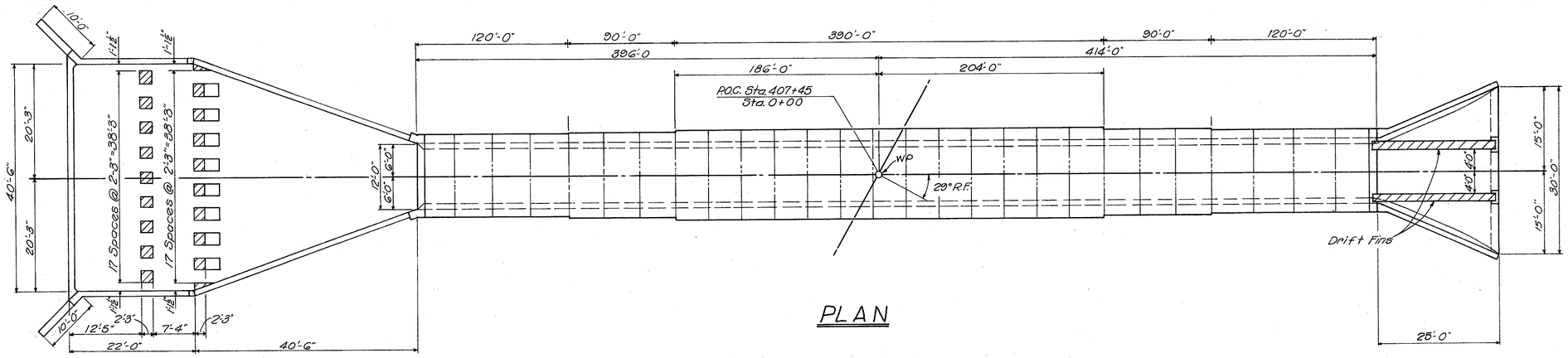
CROSS SECTIONS
12'-0" x 11'-0" BOX CULVERT
STA. 407+45

MICROFILMED
MAR 27 1969

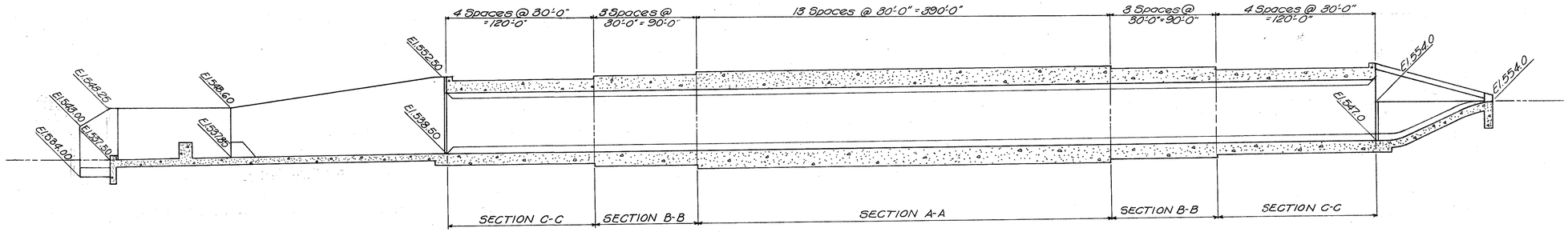
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

446
638

CLERMONT COUNTY
CLE-275-6.68



PLAN



SECTION ALONG ℄

Design Specification : This structure conforms to the requirements of Standard Specifications for Highway Bridges of The American Association of State Highway Officials Ninth Edition 1965

Concrete shall be Class "C" as per State of Ohio Specifications.
Unit Stresses : Maximum Unit Design Stresses for this Culvert are as follows.
- fs = 20,000 p.s.i.
- fc = 1,200 p.s.i.
- n = 10
- u = 180 p.s.i. Top Bars
  = 300 p.s.i. Other Bars
- V = 90 p.s.i. without web Reinforcement
  = 225 p.s.i. with web Reinforcement

Embankment shall be placed symmetrically on both sides of the culvert after the top slab is in place. Embankment over the barrel shall be placed in horizontal layers simultaneously with that on each side of culvert.

Bar Size is indicated in the bar mark. The first digit for a №9 Bar or smaller and the first two digits for a №10 & №11 Bar indicates the bar size. For example M5206 is a №5 Bar and M1002 is a №10 Bar.

HARRY BALKE ENGINEERS
990 NASSAU STREET
CINCINNATI, OHIO 45206

12'-0" x 11'-0" BOX CULVERT
STA. 407+45

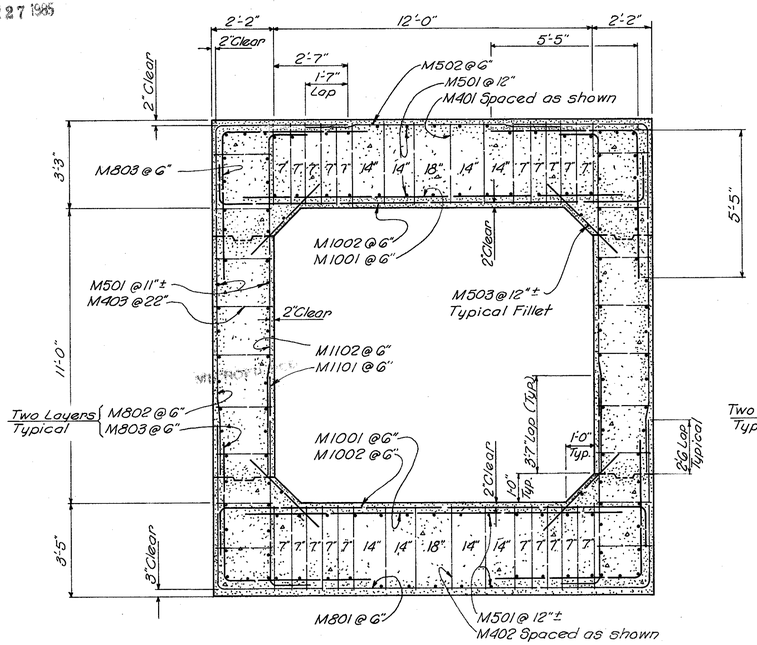
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
C.R.S.	K.R.	K.R.	R.K.	J.P.R. 10-69	

MICROFILMED
MAR 27 1985

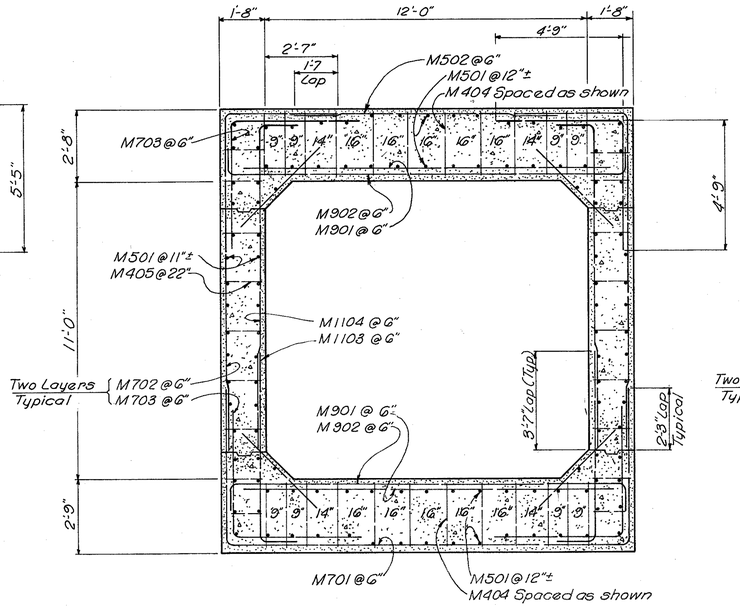
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

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638

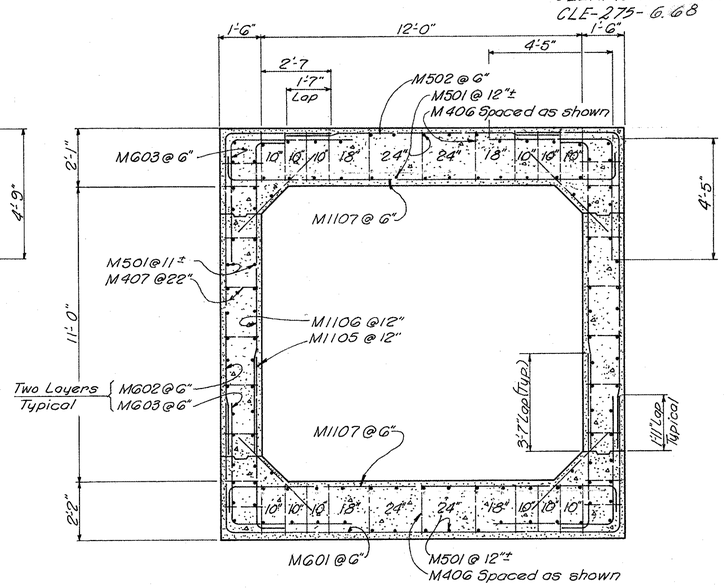
CLERMONT COUNTY
CLE-275-6.68



SECTION A-A

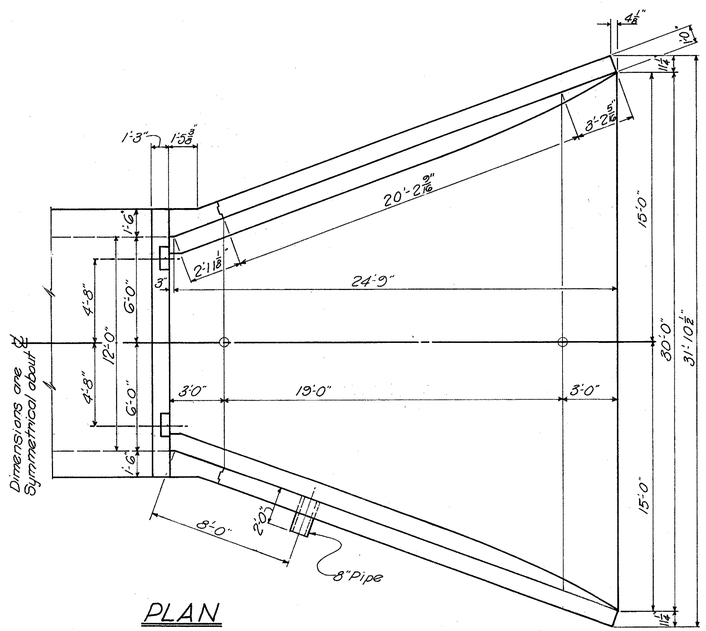


SECTION B-B



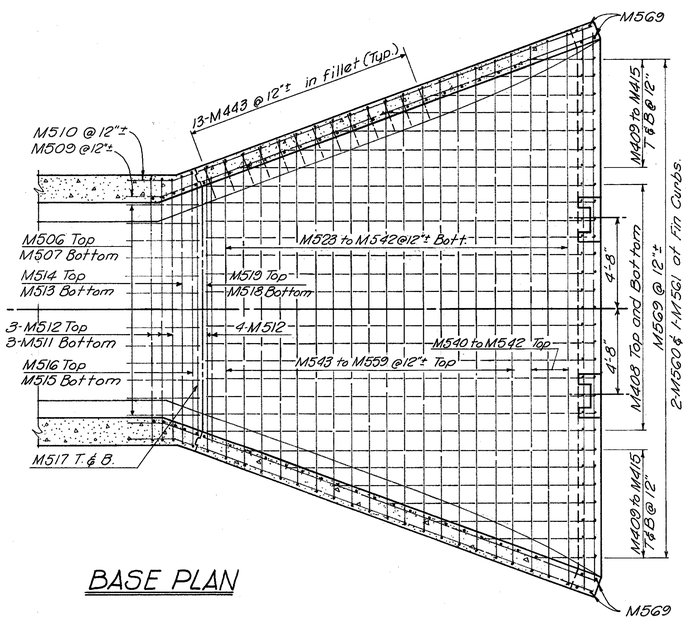
Note: See Typical Elevation of Culvert Barrel for details not shown on this sheet

SECTION C-C



PLAN

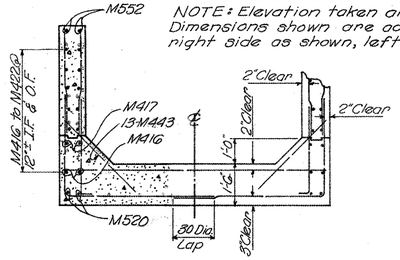
Note: For reinforcement around 8" pipe see Detail "H"



BASE PLAN

Note: See Detail "M" for details not shown on this sheet.

TYPICAL WINGWALL ELEVATION



TYPICAL SECTION

HARRY BALKE ENGINEERS
990 NASSAU STREET
CINCINNATI, OHIO 45206

12'-0" x 11'-0" BOX CULVERT
STA. 407+45

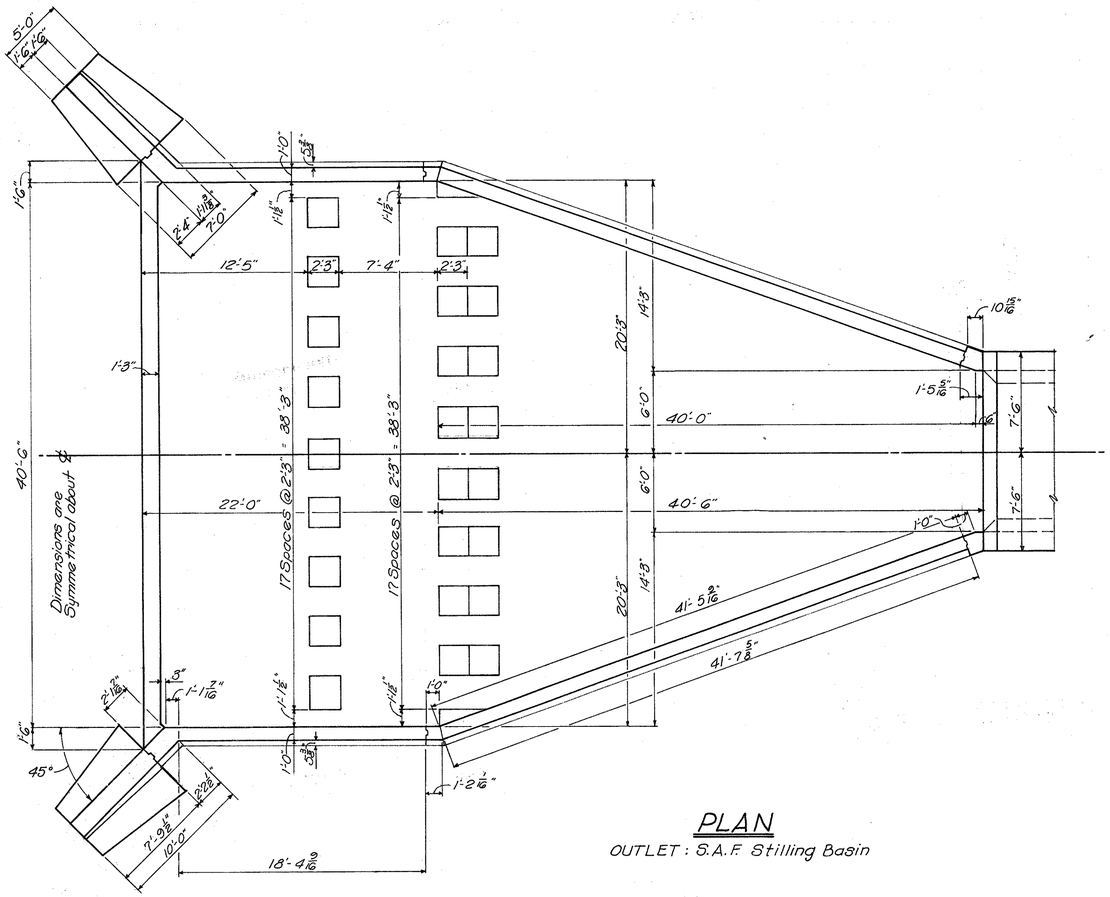
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
C.R.S.	K.R.	K.R.	R.K.	J.P.R. 10-69	

MICROFILMED
MAR 27 1985

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

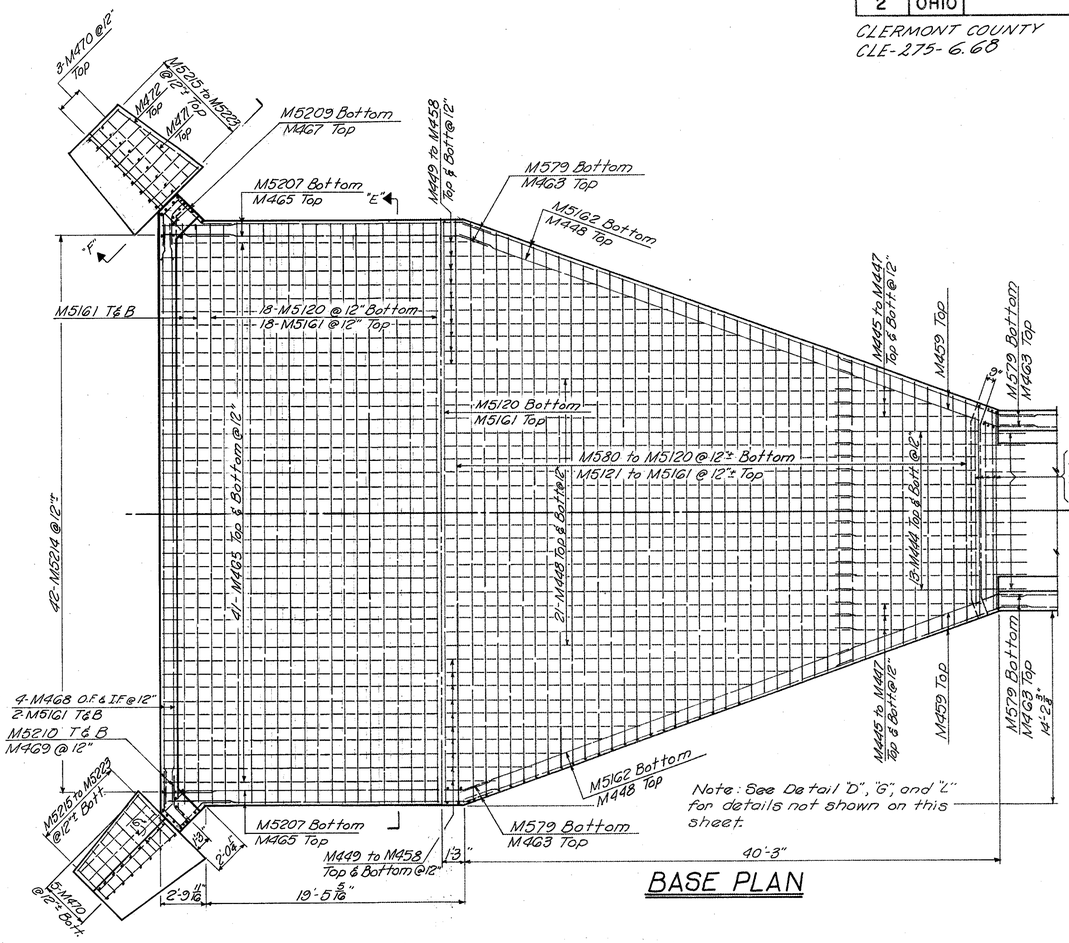
448
638

CLERMONT COUNTY
CLE-275-6.68

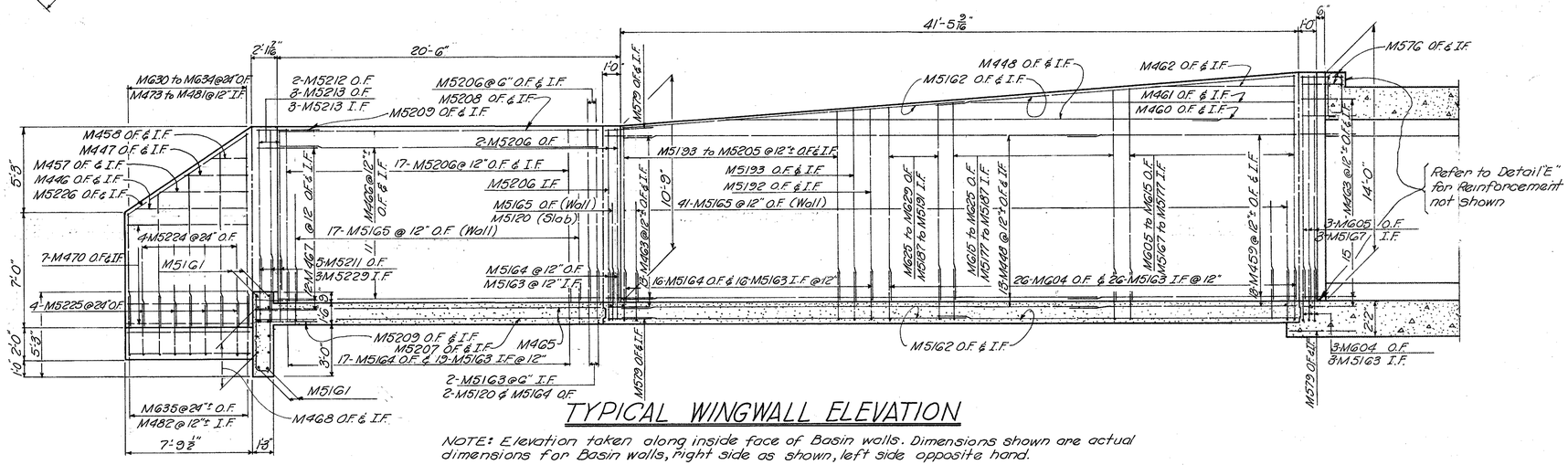


PLAN

OUTLET : S.A.F. Stilling Basin



BASE PLAN



TYPICAL WINGWALL ELEVATION

NOTE: Elevation taken along inside face of Basin walls. Dimensions shown are actual dimensions for Basin walls, right side as shown, left side opposite hand.

HARRY BALKE ENGINEERS
990 NASSAU STREET
CINCINNATI, OHIO 45206

12'-0" x 11'-0" BOX CULVERT
STA. 407 + 45

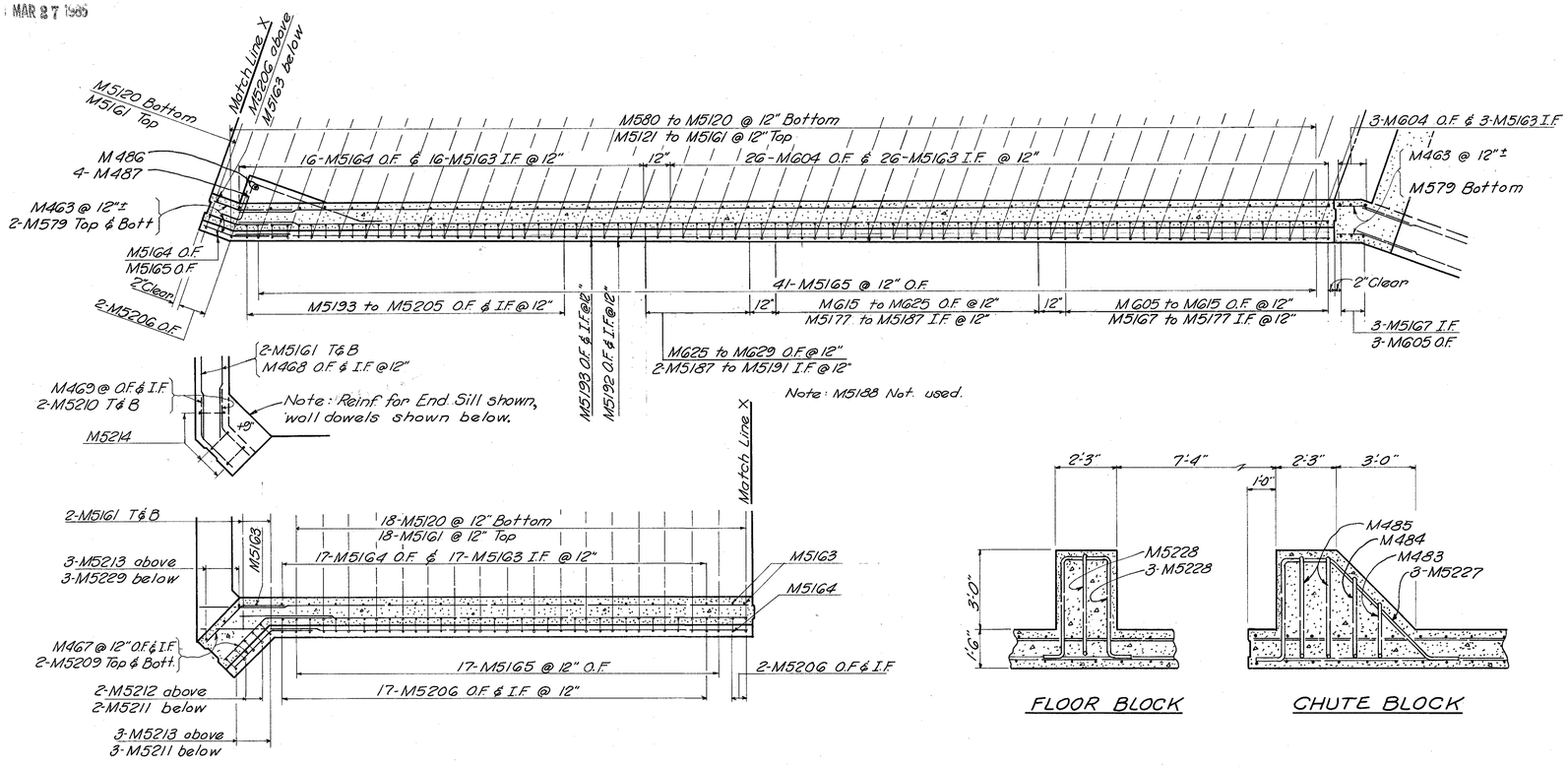
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MICROFILMED
MAR 27 1989

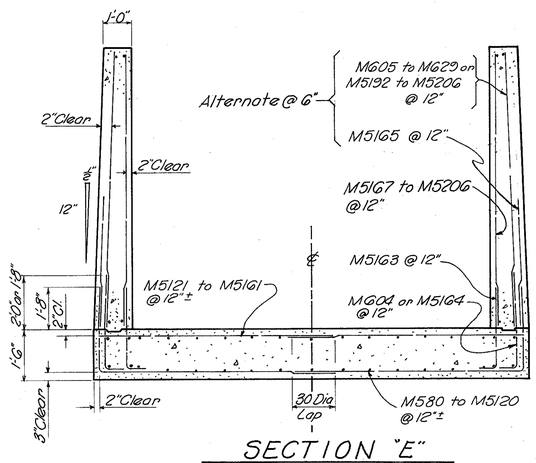
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

443
638

CLERMONT COUNTY
CLE-275-6.68



DETAIL "D"
Outlet : S.A.F. Stilling Basin

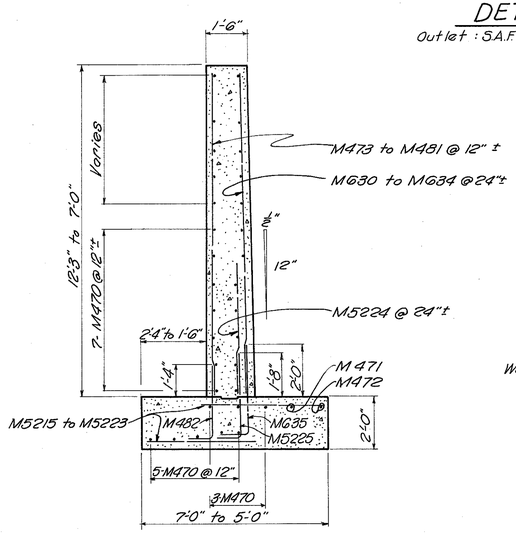


SECTION "E"
Outlet : S.A.F. Stilling Basin (Typical)

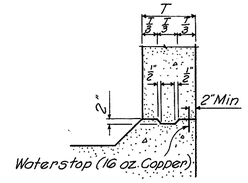
FLOOR BLOCK

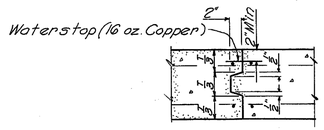
CHUTE BLOCK

DETAIL "G"
Outlet : S.A.F. Stilling Basin

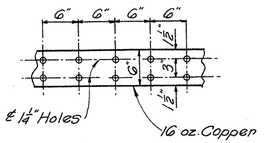


SECTION "F"
Outlet: Wing Wall (Typical)

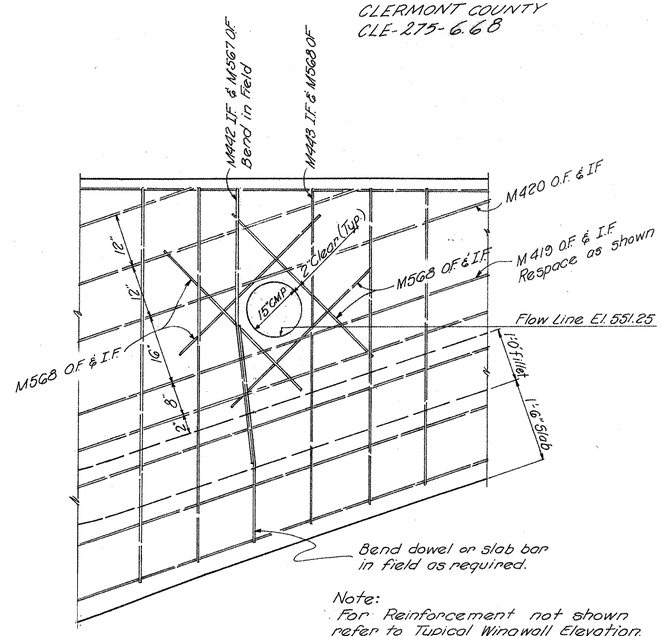




DETAIL "J"
Typical Construction Joint



DETAIL "K"
Typical Waterstop



Note:
For Reinforcement not shown refer to Typical Wingwall Elevation at Inlet End.

DETAIL "H"
Inlet : 8" Pipe

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12'-0" x 11'-0" BOX CULVERT
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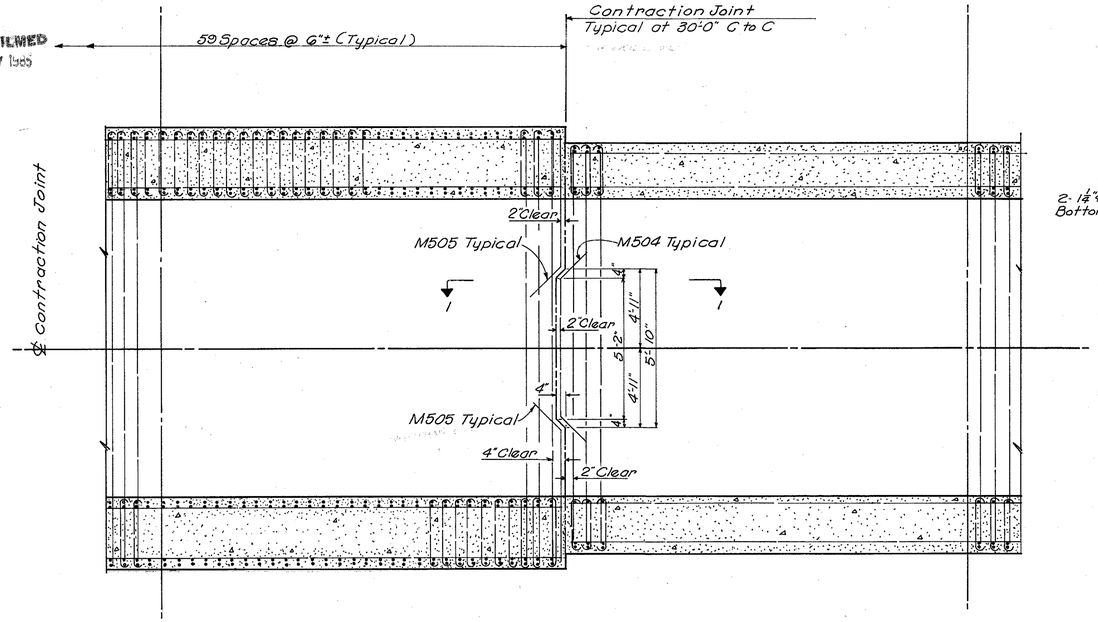
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
C.R.S.	K.R.	K.R.	R.K.	J.P.R. 10-69	

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MAR 27 1985

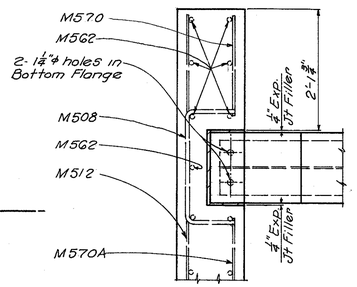
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

450/638

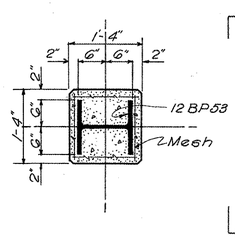
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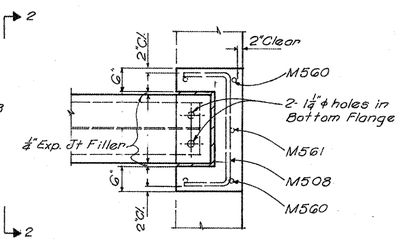
TYPICAL ELEVATION OF CULVERT BARREL~ PLAN VIEW SIMILAR



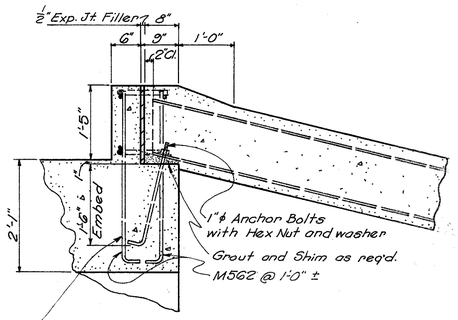
PLAN



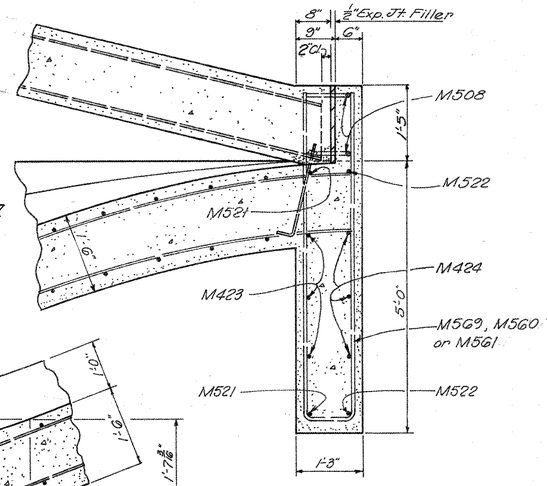
SECTION 2-2

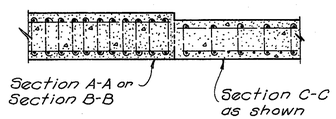


PLAN

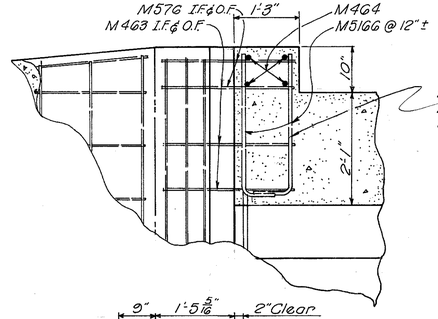


Note: Cost of furnishing and placing 1"ϕ anchor bolts with hex nuts and washers shall be included in Item 513, Structural Steel.

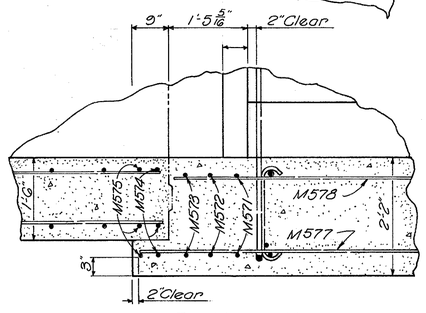




SECTION 1-1

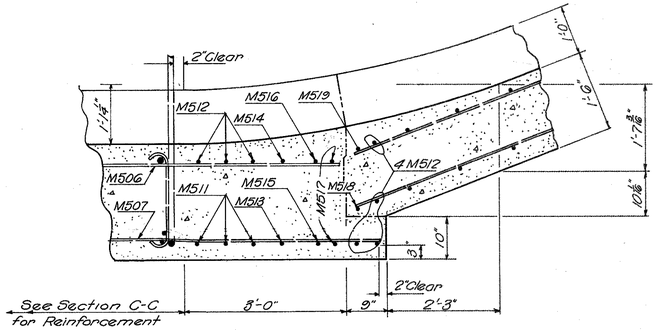


Note: Place M562 and M516 Bars as required to miss Slab Reinforcement.



ELEVATION

DETAIL "L"
Outlet End



ELEVATION

DETAIL "M"
Inlet End

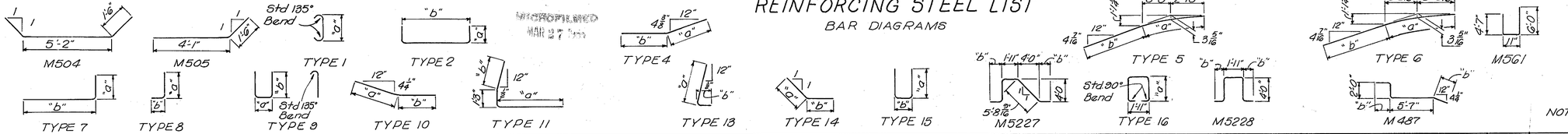
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12'-0" x 11'-0" BOX CULVERT
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DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
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REINFORCING STEEL LIST

BAR DIAGRAMS



MICROFILMED MAR 27 1969

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

451
438

CLERMONT COUNTY
CLE-275-6.68

NOTE: All Dimensions Are Out to Out

MARK	TYPE	SECTION A-A Mono	Per Mono	Total Nº	"a"	"b"	LENGTH	WEIGHT
M401	1	13	960	12,480	2'-11"	–	3'-8"	30,568
M402	1	13	960	12,480	3'-0"	–	3'-9"	31,262
M403	1	13	1,080	14,040	1'-10"	–	2'-7"	24,228
M801	2	13	60	780	6'-8"	16'-0"	28'-11"	60,222
M802	7	13	120	1,560	4'-7"	18'-1"	17'-6"	72,891
M803	8	13	240	3,120	5'-5"	5'-5"	10'-8"	88,858
M1001	Str.	13	120	1,560	–	–	14'-2"	95,097
M1002	2	13	120	1,560	1'-9"	15'-8"	18'-7"	124,744
M1101	8	13	120	1,560	7'-7"	2'-0"	9'-3"	76,667
M1102	8	13	120	1,560	12'-9"	2'-0"	14'-5"	119,490

MARK	TYPE	SECTION B-B Mono	Per Mono	Total Nº	"a"	"b"	LENGTH	WEIGHT
M404	1	6	1,440	8,640	2'-4"	-	3'-1"	17,795
M405	1	6	1,080	6,480	1'-4"	–	2'-1"	9,018
M701	2	6	60	360	5'-9"	15'-0"	26'-1"	19,193
M702	7	6	120	720	4'-1"	12'-6"	16'-5"	24,160
M703	8	6	240	1,440	4'-9"	4'-9"	9'-4"	27,471
M901	Str.	6	120	720	–	–	13'-8"	33,456
M902	2	6	120	720	1'-7"	14'-8"	17'-4"	42,432
M1103	8	6	120	720	6'-11"	2'-0"	8'-7"	32,834
M1104	8	6	120	720	12'-2"	2'-0"	13'-10"	52,917

MARK	TYPE	SECTION C-C Mono	Per Mono	Total Nº	"a"	"b"	LENGTH	WEIGHT
M406	1	8	1,320	10,560	1'-9"	–	2'-6"	17,685
M407	1	8	1,080	8,640	1'-2"	–	1'-11"	11,062
MG01	2	8	60	480	4'-10"	14'-8"	24'-0"	17,303
MG02	7	8	120	960	3'-11"	11'-11"	15'-8"	22,590
MG03	8	8	240	1,920	4'-5"	4'-5"	8'-8"	24,993
M1105	8	8	60	480	6'-4"	2'-0"	8'-0"	20,402
M1106	8	8	60	480	11'-7"	2'-0"	13'-3"	38,791
M1107	2	8	120	960	2'-0"	14'-4"	17'-8"	90,109

MARK	TYPE	Nº of BARS Sec.A-A	Sec.B-B	Sec.C-C	TOTAL NUMBER	LENGTH	WEIGHT
M501	Str.	13x136	6x120	8x120	3,448	29'-8"	106,689
M502	Str.	13x60	6x60	8x60	1,620	10'-0"	16,897
M503	Str.	13x120	6x120	8x120	3,240	2'-8"	9,012
M504	Bent	13x4	6x4	8x4	108	8'-2"	920
M505	Bent	13x8	6x8	8x8	216	5'-7"	1,258
Total Barrel Reinforcement							1,355,964

MARK	TYPE	INLET TOTAL NUMBER	"a"	"b"	LENGTH	WEIGHT
M408	5	30	5'-10"	16'-10"	22'-8"	454
M409	5	4	5'-10"	15'-0"	20'-10"	56
M410	5	4	5'-10"	11'-11"	17'-9"	47
M411	5	4	5'-10"	9'-0"	14'-10"	40
M412	5	4	5'-10"	6'-1"	11'-11"	32
M413	5	4	5'-10"	3'-2"	9'-0"	24
M414	5	4	5'-10"	0'-3"	6'-1"	16
M415	5	4	3'-4"	0"	3'-4"	9
M416	6	4	6'-2"	18'-0"	24'-2"	65
M417	Str.	4	–	–	17'-0"	45
M418	Str.	4	–	–	16'-0"	43
M419	Str.	4	–	–	13'-0"	35
M420	Str.	4	–	–	10'-0"	27
M421	Str.	4	–	–	6'-8"	18
M422	Str.	4	–	–	3'-6"	9
M423	Str.	3	–	–	31'-0"	62
M424	Str.	3	–	–	30'-0"	60
M425	8	12	3'-9"	0'-8"	4'-3"	34
M426	8	2	5'-8"	0'-8"	6'-2"	8
M427	8	2	5'-4"	0'-8"	5'-10"	8
M428	8	2	5'-0"	0'-8"	5'-6"	7
M429	8	12	4'-8"	0'-8"	5'-2"	41
M430	8	2	4'-4"	0'-8"	4'-10"	6
M431	8	2	4'-0"	0'-8"	4'-6"	6
M432	8	2	3'-8"	0'-8"	4'-2"	6
M433	8	2	3'-3"	0'-8"	3'-9"	5
M434	8	2	2'-10"	0'-8"	3'-4"	4
M435	8	2	2'-5"	0'-8"	2'-11"	4
M436	8	2	2'-0"	0'-8"	2'-6"	3
M437	8	2	1'-7"	0'-8"	2'-1"	3
M438	Str.	12	–	–	5'-4"	43
M439	Str.	2	–	–	5'-0"	7
M440	Str.	2	–	–	4'-7"	6
M441	Str.	2	–	–	4'-3"	6
M442	Str.	2	–	–	3'-11"	5
M443	Str.	28	–	–	3'-7"	67
Total Nº 4 Bars						1,311
M506	Str.	13	–	–	5'-0	68
M507	Str.	13	–	–	6'-0	81
M508	2	8	0'-10"	2'-0"	3'-5"	29
M509	4	18	2'-6"	2'-9"	5'-3"	99
M510	4	18	1'-5"	3'-6"	4'-11"	92
M511	7	6	4'-6"	8'-2"	12'-6"	78
M512	Str.	9	–	–	14'-8	138
M513	7	2	4'-6"	8'-6"	12'-10"	27

MARK	TYPE	INLET (Cont.) TOTAL NUMBER	"a"	"b"	LENGTH	WEIGHT
M514	Str.	1	–	–	15'-4"	16
M515	7	2	4'-6"	8'-7"	12'-11"	27
M516	Str.	1	–	–	15'-6"	16
M517	Str.	2	–	–	13'-0	27
M518	7	2	4'-3"	8'-9"	12'-10"	27
M519	Str.	1	–	–	15'-10"	17
M520	6	4	6'-2"	18'-0"	24'-2"	101
M521	Str.	2	–	–	31'-0	65
M522	Str.	2	–	–	30'-0"	63
M523	7	2	4'-0	9'-2	13'-0"	27
M524	7	2	4'-0"	9'-6"	13'-4"	28
M525	7	2	4'-0"	9'-10"	13'-8"	29
M526	7	2	4'-0"	10'-3"	14'-1"	29
M527	7	2	4'-0"	10'-8"	14'-6"	30
M528	7	2	5'-8"	11'-0"	16'-6"	34
M529	7	2	5'-4"	11'-4"	16'-6"	34
M530	7	2	5'-0"	11'-8"	16'-6"	34
M531	7	2	4'-8"	12'-1"	16'-7"	35
M532	7	2	4'-4"	12'-5"	16'-7"	35
M533	7	2	4'-0"	12'-9"	16'-7"	35
M534	7	2	3'-8"	13'-2"	16'-8"	35
M535	7	2	3'-3"	13'-6"	16'-7"	35
M536	7	2	2'-10"	13'-11"	16'-7"	35
M537	7	2	2'-5"	14'-3"	16'-6"	34
M538	7	2	2'-0"	14'-7"	16'-5"	34
M539	7	2	1'-7"	15'-0"	16'-5"	34
M540	Str.	2	–	–	29'-0	60
M541	Str.	2	–	–	29'-8"	62
M542	Str.	2	–	–	30'-4"	63
M543	Str.	1	–	–	16'-6"	17
M544	Str.	1	–	–	17'-3"	18
M545	Str.	1	–	–	18'-0"	19
M546	Str.	1	–	–	18'-9"	20
M547	Str.	1	–	–	19'-5"	20
M548	Str.	1	–	–	20'-2	21
M549	Str.	1	–	–	20'-11"	22
M550	Str.	1	–	–	21'-8"	23
M551	Str.	2	–	–	22'-4"	23
M552	Str.	1	–	–	23'-1"	120
M553	Str.	1	–	–	23'-10"	25
M554	Str.	1	–	–	24'-6"	26
M555	Str.	1	–	–	25'-3"	26
M556	Str.	1	–	–	26'-0	27
M557	Str.	1	–	–	26'-9"	28
M558	Str.	1	–	–	27'-5"	29
M559	Str.	1	–	–	28'-2"	29

MARK	TYPE	INLET (Cont.) TOTAL NUMBER	"a"	"b"	LENGTH	WEIGHT
M560	15	4	6'-0"	0'-11"	6'-7"	27
M561	Bent	2	—	—	11'-2"	23
M562	8	30	3'-0"	11'-0"	3'-9"	117
M563	Str.	12	–	–	5'-4"	67
M564	Str.	2	–	–	5'-0"	10
M565	Str.	2	–	–	4'-7"	10
M566	Str.	2	–	–	4'-3"	9
M567	Str.	2	–	–	3'-11"	8
M568	Str.	10	–	–	3'-7"	37
M569	15	27	0'-11"	4'-7"	6'-1"	171
M570	Str.	4	–	–	1'-10"	8
M570A	Str.	2	–	–	7'-8"	16
Total Nº 5 Bars						2,709
Total Inlet Reinforcement						4,020

MARK	TYPE	OUTLET TOTAL NUMBER	"a"	"b"	LENGTH	WEIGHT
M444	Str.	26	–	–	11'-0"	191
M445	Str.	4	–	–	9'-8"	26
M446	Str.	8	–	–	6'-10"	37
M447	Str.	8	–	–	4'-0"	21
M448	Str.	98	–	–	30'-0	1,964
M449	Str.	4	–	–	27'-2	73
M450	Str.	4	–	–	24'-4"	65
M451	Str.	4	–	–	21'-6"	57
M452	Str.	4	–	–	19'-8"	53
M453	Str.	4	–	–	16'-10"	45
M454	Str.	4	–	–	14'-0"	37
M455	Str.	4	–	–	11'-2"	30
M456	Str.	4	–	–	8'-4"	22
M457	Str.	8	–	–	5'-6"	29
M458	Str.	8	–	–	2'-8"	14
M459	Str.	52	–	–	12'-4"	428
M460	Str.	4	–	–	3'-7"	10
M461	Str.	4	–	–	20'-2"	54
M462	Str.	4	–	–	8'-0"	21
M463	10	112	0'-9"	2'-0"	2'-9"	206
M464	Str.	4	–	–	14'-8"	39
M465	Str.	86	–	–	20'-8"	119
M466	Str.	44	–	–	19'-2"	563
M467	14	48	2'-0"	1'-7"	3'-7"	115
M468	Str.	16	–	–	22'-3"	238
M469	14	16	1'-6"	1'-7"	3'-1"	33
M470	Str.	44	–	–	7'-5"	218
M471	Str.	2	–	–	6'-8"	9

MARK	TYPE	OUTLET (Cont.) TOTAL NUMBER	"a"	"b"	LENGTH	WEIGHT
M472	Str.	2	–	–	7'-7"	10
M473	Str.	2	–	–	6'-11"	9
M474	Str.	2	–	–	7'-7"	10
M475	Str.	2	–	–	8'-3"	11
M476	Str.	2	–	–	8'-11"	12
M477	Str.	2	–	–	9'-7"	13
M478	Str.	2	–	–	10'-3"	14
M479	Str.	2	–	–	10'-11"	15
M480	Str.	2	–	–	11'-7"	15
M481	Str.	2	–	–	11'-11"	16
M482	8	18	3'-0"	0'-9"	3'-7"	43
M483	16	8	2'-0"	–	5'-10"	31
M484	16	8	3'-0"	–	7'-10"	42
M485	16	16	4'-0"	–	9'-10"	105
M486	8	2	4'-1"	0'-9"	4'-8"	6
M487	Bent	8	–	0'-9"	8'-9"	47
Total Nº 4 Bars						5,116
M571	Str.	2	–	–	14'-8"	31
M572	Str.	2	–	–	15'-0"	31
M573	Str.	2	–	–	15'-4"	32
M574	Str.	3	–	–	15'-7"	49
M575	Str.	3	–	–	13'-4"	42
M576	10	8	0'-10"	0'-10"	1'-8"	14
M577	Str.	13	–	–	4'-0"	54
M578	Str.	13	–	–	3'-2"	43
M579	10	12	2'-0"	3'-1"	5'-1"	39
M580	11	2	9'-1"	1'-8"	11'-10"	25
M581	11	2	9'-5"	1'-8"	12'-2"	25
M582	11	2	9'-9"	1'-8"	12'-6"	26
M583	11	2	10'-1"	1'-8"	12'-10"	27
M584	11	2	10'-5"	1'-8"	13'-2"	27

NOTE: Reinforcing List Continued To Next Sheet.

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12'-0" x 11'-0" BOX CULVERT
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DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
C.R.S.	K.R.	K.R.	R.K.	J.P.R. 10-69	

MICROFILMED
MAR 27 1989

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

452
638

CLERMONT COUNTY
CLE-275-6.68

OUTLET (Cont.)						
MARK	TYPE	TOTAL NUMBER	"a"	"b"	LENGTH	WEIGHT
M5185	11	2	10'9"	1'8"	13'6"	28
M5186	11	2	11'1"	1'8"	13'10"	29
M5187	11	2	11'5"	1'8"	14'2"	30
M5188	11	2	11'9"	1'8"	14'6"	30
M5189	11	2	12'1"	1'8"	14'10"	31
M5190	11	2	12'5"	1'8"	15'2"	32
M5191	11	2	12'9"	1'8"	15'6"	32
M5192	11	2	13'1"	1'8"	15'10"	33
M5193	11	2	13'5"	1'8"	16'2"	34
M5194	11	2	13'9"	1'8"	16'6"	34
M5195	11	2	14'1"	1'8"	16'10"	35
M5196	11	2	14'5"	1'8"	17'2"	36
M5197	11	2	14'9"	1'8"	17'6"	37
M5198	11	2	15'1"	1'8"	17'10"	37
M5199	11	2	15'5"	1'8"	18'2"	38
M5100	11	2	15'9"	1'8"	18'6"	39
M5101	11	2	16'1"	1'8"	18'10"	39
M5102	11	2	16'5"	1'8"	19'2"	40
M5103	11	2	16'9"	1'8"	19'6"	41
M5104	11	2	17'1"	1'8"	19'10"	41
M5105	11	2	17'5"	1'8"	20'2"	42
M5106	11	2	17'9"	1'8"	20'6"	43
M5107	11	2	18'1"	1'8"	20'10"	43
M5108	11	2	18'5"	1'8"	21'2"	44
M5109	11	2	18'9"	1'8"	21'6"	45
M5110	11	2	19'1"	1'8"	21'10"	46
M5111	11	2	19'5"	1'8"	22'2"	46
M5112	11	2	19'9"	1'8"	22'6"	47
M5113	11	2	20'1"	1'8"	22'10"	48
M5114	11	2	20'5"	1'8"	23'2"	48
M5115	11	2	20'9"	1'8"	23'6"	49
M5116	11	2	21'1"	1'8"	23'10"	50
M5117	11	2	21'5"	1'8"	24'2"	50
M5118	11	2	21'9"	1'8"	24'6"	51
M5119	11	2	22'1"	1'8"	24'10"	52
M5120	11	40	22'4"	1'8"	25'1"	1,046
M5121	Str.	1	—	—	16'5"	17
M5122	Str.	1	—	—	17'1"	18
M5123	Str.	1	—	—	17'9"	19
M5124	Str.	1	—	—	18'5"	19
M5125	Str.	1	—	—	19'1"	20
M5126	Str.	1	—	—	19'9"	21
M5127	Str.	1	—	—	20'5"	21
M5128	Str.	1	—	—	21'1"	22
M5129	Str.	1	—	—	21'9"	23
M5130	Str.	1	—	—	22'5"	23
M5131	Str.	1	—	—	23'2"	24
M5132	Str.	1	—	—	23'10"	25
M5133	Str.	1	—	—	24'6"	26
M5134	Str.	1	—	—	25'2	26
M5135	Str.	1	—	—	25'10"	27
M5136	Str.	1	—	—	26'6"	28
M5137	Str.	1	—	—	27'2"	28

OUTLET (Cont.)						
MARK	TYPE	TOTAL NUMBER	"a"	"b"	LENGTH	WEIGHT
M5138	Str.	1	—	—	27'10"	29
M5139	Str.	1	—	—	28'6"	30
M5140	Str.	1	—	—	29'2"	30
M5141	Str.	1	—	—	29'10"	31
M5142	Str.	2	—	—	16'1	34
M5143	Str.	2	—	—	16'5	34
M5144	Str.	2	—	—	16'9	35
M5145	Str.	2	—	—	17'1	36
M5146	Str.	2	—	—	17'5"	36
M5147	Str.	2	—	—	17'9"	37
M5148	Str.	2	—	—	18'1"	38
M5149	Str.	2	—	—	18'5"	38
M5150	Str.	2	—	—	18'9"	39
M5151	Str.	2	—	—	19'1"	40
M5152	Str.	2	—	—	19'5"	41
M5153	Str.	2	—	—	19'9"	41
M5154	Str.	2	—	—	20'1"	42
M5155	Str.	2	—	—	20'5"	43
M5156	Str.	2	—	—	20'9"	43
M5157	Str.	2	—	—	21'1"	44
M5158	Str.	2	—	—	21'5"	45
M5159	Str.	2	—	—	21'9"	45
M5160	Str.	2	—	—	22'1"	46
M5161	Str.	56	—	—	22'4"	1,804
M5162	Str.	16	—	—	21'5"	357
M5163	8	132	2'10"	0'11"	3'3"	447
M5164	11	72	0'11"	1'8"	4'8"	350
M5165	Str.	118	—	—	6'0"	738
M5166	8	32	2'8"	0'11"	3'5"	114
M5167	Str.	8	—	—	13'9	115
M5168	Str.	2	—	—	13'8"	29
M5169	Str.	2	—	—	13'7	28
M5170	Str.	2	—	—	13'6"	28
M5171	Str.	2	—	—	13'5"	28
M5172	Str.	2	—	—	13'4"	28
M5173	Str.	2	—	—	13'3"	28
M5174	Str.	2	—	—	13'2"	27
M5175	Str.	2	—	—	13'1"	27
M5176	Str.	2	—	—	13'0"	27
M5177	Str.	4	—	—	12'11"	54
M5178	Str.	2	—	—	12'10"	27
M5179	Str.	2	—	—	12'9"	27
M5180	Str.	2	—	—	12'8"	26
M5181	Str.	2	—	—	12'7"	26
M5182	Str.	2	—	—	12'6"	26
M5183	Str.	2	—	—	12'5"	26
M5184	Str.	2	—	—	12'4"	26
M5185	Str.	2	—	—	12'3"	26
M5186	Str.	2	—	—	12'2"	25
M5187	Str.	6	—	—	12'1"	76
M5189	Str.	2	—	—	11'11"	25
M5190	Str.	2	—	—	11'10"	25
M5191	Str.	2	—	—	11'9"	25

M5188 - Not Used

OUTLET (Cont.)						
MARK	TYPE	TOTAL NUMBER	"a"	"b"	LENGTH	WEIGHT
M5192	Str.	4	—	—	11'8"	49
M5193	Str.	8	—	—	11'7"	97
M5194	Str.	4	—	—	11'6"	48
M5195	Str.	4	—	—	11'5"	48
M5196	Str.	4	—	—	11'4"	47
M5197	Str.	4	—	—	11'3"	47
M5198	Str.	4	—	—	11'2"	47
M5199	Str.	4	—	—	11'1"	46
M5200	Str.	4	—	—	11'0"	46
M5201	Str.	4	—	—	10'11"	46
M5202	Str.	4	—	—	10'10"	45
M5203	Str.	4	—	—	10'9"	45
M5204	Str.	4	—	—	10'8"	45
M5205	Str.	4	—	—	10'7"	44
M5206	Str.	82	—	—	10'6"	898
M5207	Str.	4	—	—	20'8"	86
M5208	Str.	4	—	—	19'0"	79
M5209	14	8	2'0"	1'8"	3'8"	31
M5210	14	8	1'6"	1'8"	3'2"	26
M5211	12	10	2'5"	0'11"	3'4"	35
M5212	Str.	4	—	—	4'3"	18
M5213	Str.	12	—	—	9'9"	122
M5214	15	46	0'11"	4'10"	10'4"	496
M5215	Str.	4	—	—	3'3"	14
M5216	Str.	4	—	—	3'5"	14
M5217	Str.	4	—	—	3'7"	15
M5218	Str.	4	—	—	3'9"	16
M5219	Str.	4	—	—	3'11	16
M5220	Str.	4	—	—	4'1"	17
M5221	Str.	4	—	—	4'3"	18
M5222	Str.	4	—	—	4'5"	18
M5223	Str.	4	—	—	4'6"	19
M5224	Str.	8	—	—	5'0"	42
M5225	8	8	3'4"	0'11"	4'1"	34
M5226	Str.	4	—	—	9'1"	38
M5227	Bent	24	—	0'11"	12'11"	323
M5228	Bent	36	—	—	11'2"	419
M5229	12	6	0'11"	3'7"	5'7"	35
MG04	12	58	1'1"	2'0"	4'2"	363
MG05	Str.	2	—	—	13'9"	41
MG06	Str.	2	—	—	13'8"	41
MG07	Str.	2	—	—	13'7"	41
MG08	Str.	2	—	—	13'6"	41
MG09	Str.	2	—	—	13'5"	40
MG10	Str.	2	—	—	13'4"	40
MG11	Str.	2	—	—	13'3"	40
MG12	Str.	2	—	—	13'2"	40
MG13	Str.	2	—	—	13'1"	39
MG14	Str.	2	—	—	13'0"	39
MG15	Str.	4	—	—	12'11"	78
MG16	Str.	2	—	—	12'10"	39
MG17	Str.	2	—	—	12'9"	38
MG18	Str.	2	—	—	12'8"	38

Total №5 Bars equals 11,819#

OUTLET (Cont.)						
MARK	TYPE	TOTAL NUMBER	"a"	"b"	LENGTH	WEIGHT
MG19	Str.	2	—	—	12'7"	38
MG20	Str.	2	—	—	12'6"	38
MG21	Str.	2	—	—	12'5"	37
MG22	Str.	2	—	—	12'4"	37
MG23	Str.	2	—	—	12'3"	37
MG24	Str.	2	—	—	12'2"	37
MG25	Str.	2	—	—	12'1"	36
MG26	Str.	12	—	—	12'0"	36
MG27	Str.	2	—	—	11'11"	36
MG28	Str.	2	—	—	11'10"	36
MG29	Str.	2	—	—	11'9"	35
MG30	Str.	2	—	—	6'11"	21
MG31	Str.	2	—	—	8'3"	25
MG32	Str.	2	—	—	9'7"	29
MG33	Str.	2	—	—	10'11"	33
MG34	Str.	2	—	—	11'11"	36
MG35	13	8	3'8"	1'1"	4'7"	55
Total №6 Bars						1,560
Total Outlet Reinforcement						18,495

DESCRIPTION	WEIGHT
Barrel (Sec. A-A, Sec. B-B, Sec. C-C)	1,355,964
Inlet	4,020
Outlet	18,495
Grand Total	1,378,479

Quantity Carried to Sheet No.

REPLACEMENT BARS			
MARK	TYPE	NUMBER	LENGTH
RE401	Str.	8	6'-3"
RE501	Str.	8	6'-7"
RE601	Str.	4	6'-11"
RE701	Str.	4	7'-2"
RE801	Str.	12	7'-6"
RE901	Str.	4	7'-10"
RE1001	Str.	11	8'-2"
RE1101	Str.	22	8'-6"

HARRY BALKE ENGINEERS
990 NASSAU STREET
CINCINNATI, OHIO 45206

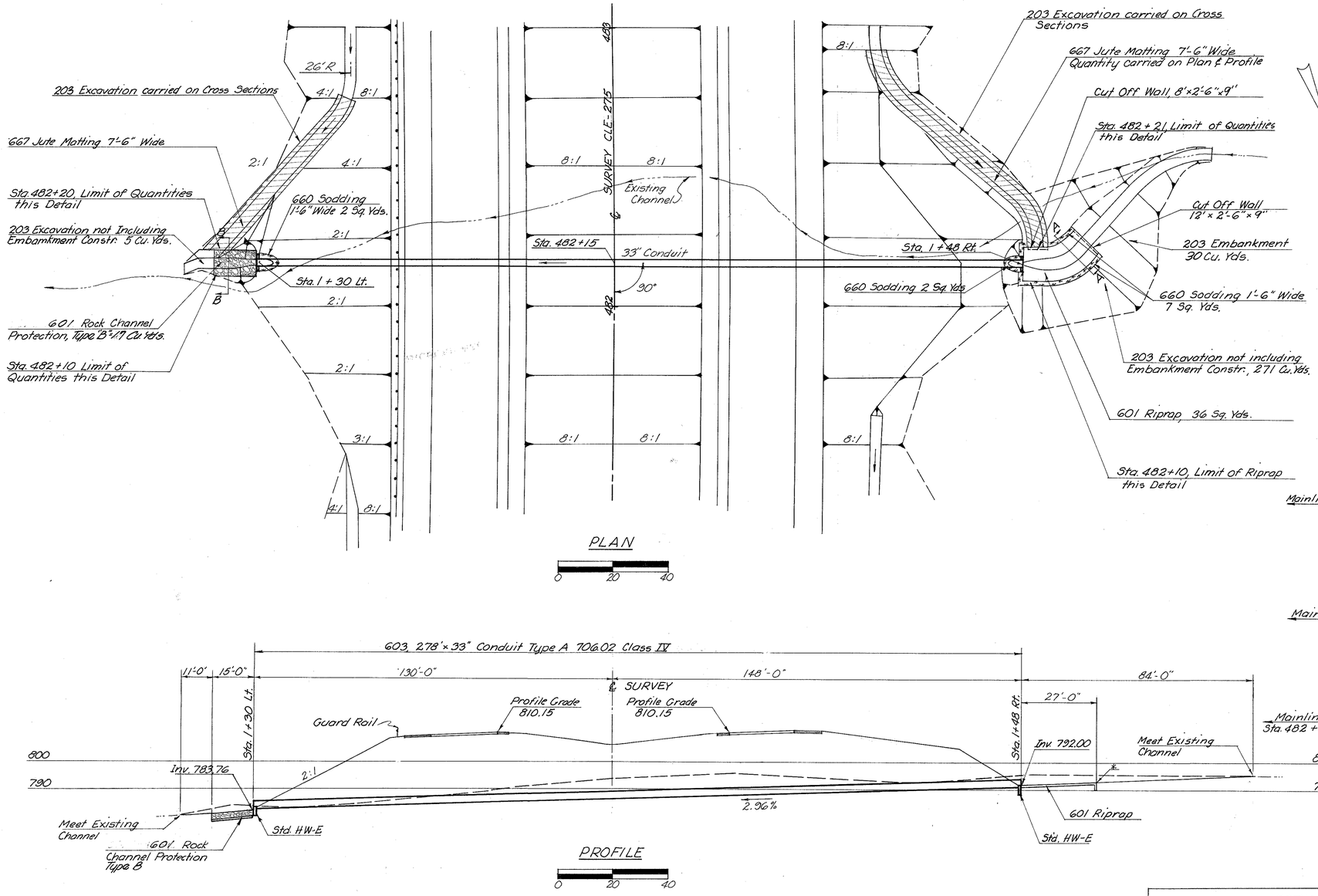
12'-0" x 11'-0" BOX CULVERT
STA 407 + 45

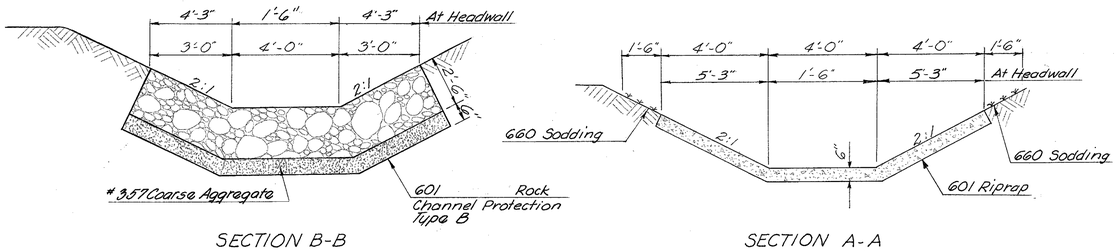
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
C.R.S.	K.R.	K.R.	R.K.	J.P.R. 10-69	

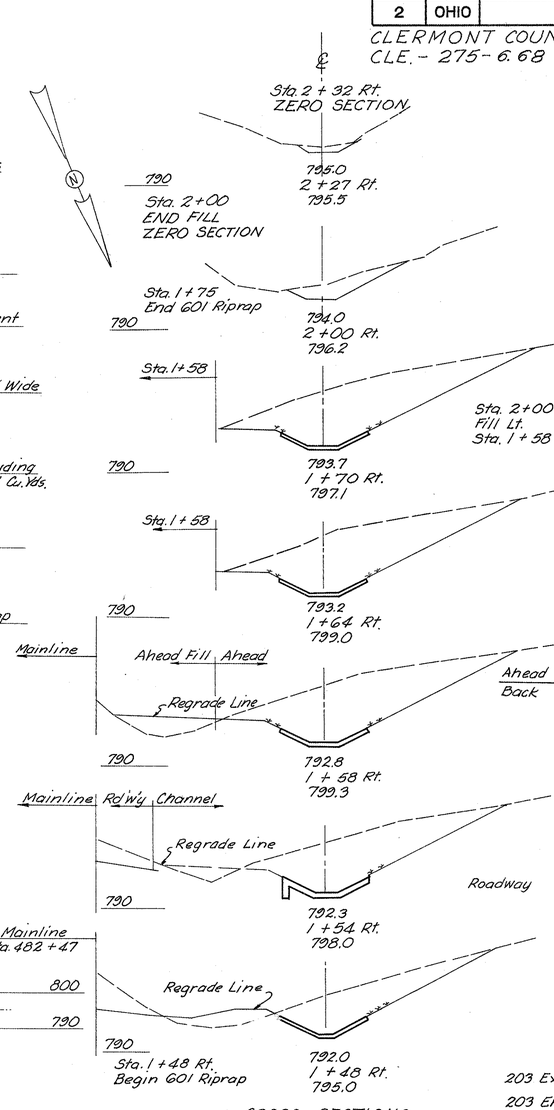
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

453
639

CLERMONT COUNTY
CLE.-275-6.68







END AREA		VOLUME	
Cut	Fill	Cut	Fill
0	0		
		1	0
2	0		
		26	0
		15	0
		114	
			0
180	0		
			23
	0		
	30		
		47	0
180	0		
		40	0
175	0		
Ahead			
Back			
175	30		
		25	3
		29	4
161	12		
95	25		
		203 Excavation	271
		203 Embankment	30

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNIT
601	Riprap Using 6" Reinforced Conc Slab	36	Sq. Yds.
601	Rock Channel Protection Type "B"	17	Cu. Yds
602	Concrete Masonry	1.10	Cu. Yd.
603	33" Conduit Type A 706.02 Cl. IV	278	Lin Ft.
660	Sodding	11	Sq. Yds
□ 203	Excavation not Including Embankment Construction	276	Cu. Yds
□ 203	Embankment	35	Cu. Yds

Quantity carried to Sheet No. 46

* Depress 3" to 6" below Channel.

□ Quantity carried to Sheet No. 272

Drainage Area = 17 Acres
Q 50 = 59 cfs

CALC. J.J.Z. DATE 6/18/66

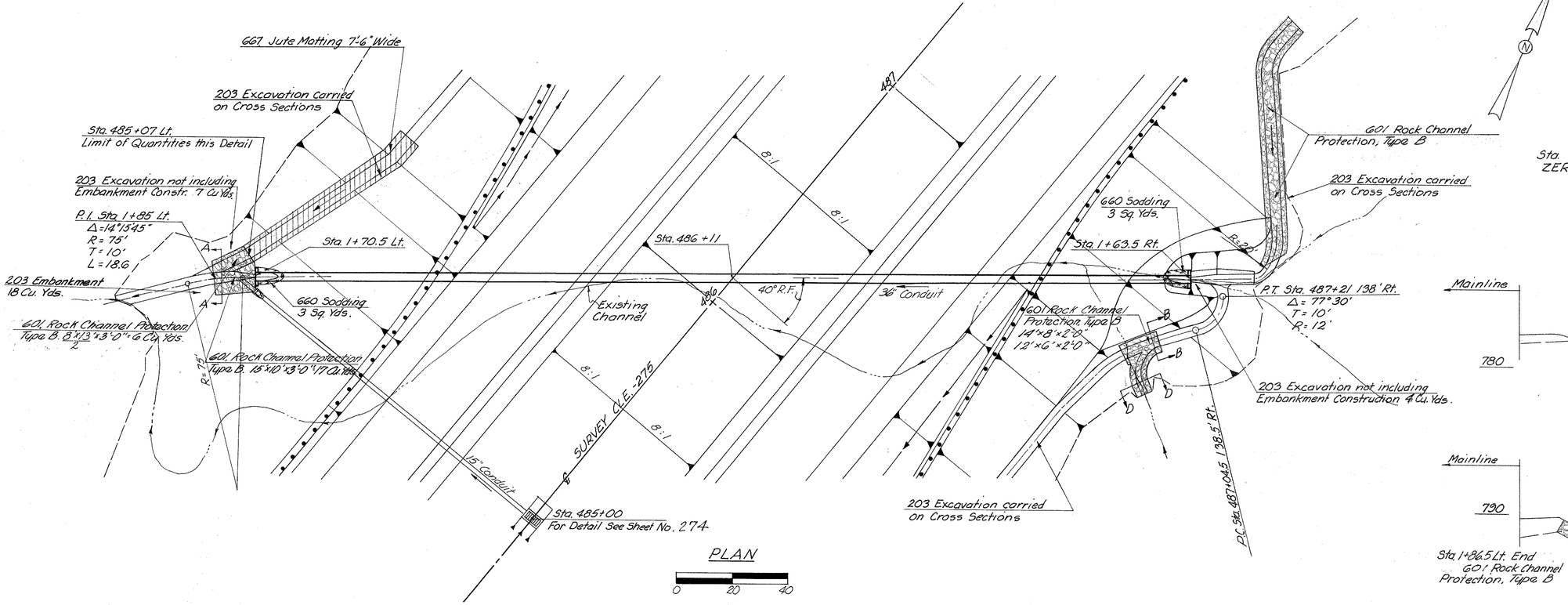
CHK'D. R.J. DATE 10/20/69

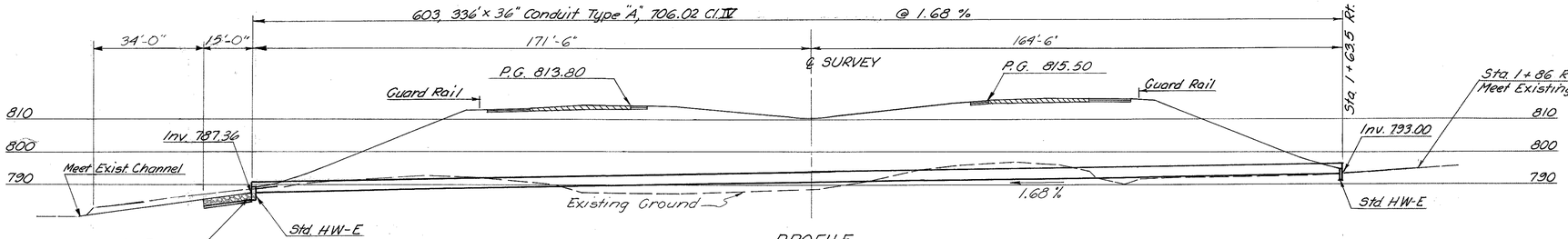
DRAINAGE STRUCTURE STA. 482+15

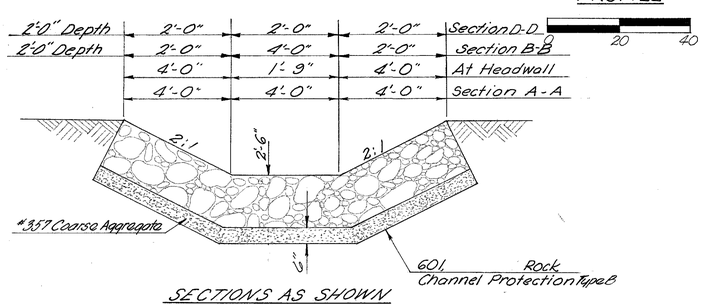
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

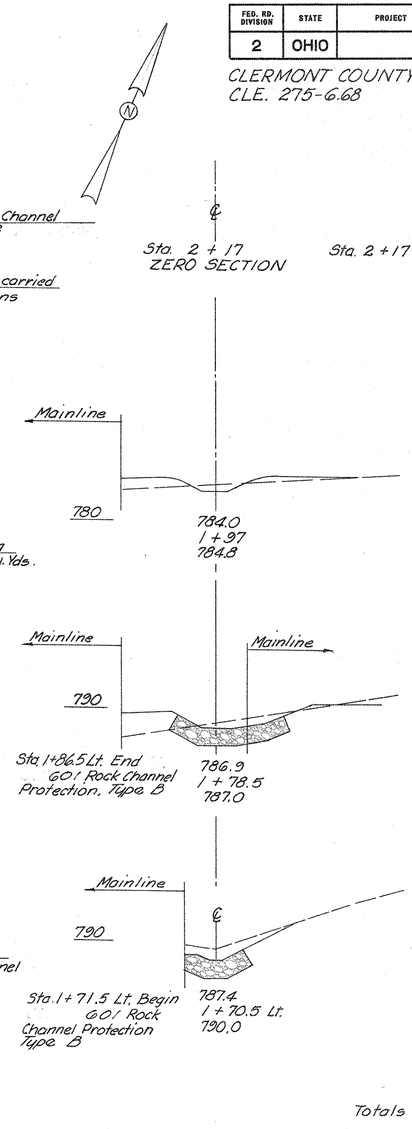
454
638

CLERMONT COUNTY
CLE. 275-6.68









	END AREA		VOLUME	
	Cut	Fill	Cut	Fill
Sta. 2+17 ZERO SECTION Sta. 2+17	0	0		
			2	1
	5	15		
			2	13
	3	25		
			3	4
	19	0		
Totals			7	18

CROSS SECTIONS
0 10 20

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNIT
601	Rock Channel Protection, Type B	23	Cu. Yds.
602	Concrete Masonry	1.18	Cu. Yds.
603	36" Conduit Type A 706.02 Cl. IV	336	Lin. Ft.
660	Sodding	6	Sq. Yd.
□ 203	Excavation not including Embankment Construction	11	Cu. Yds.
□ 203	Embankment	18	Cu. Yds.

□ Quantity carried to Sheet No. 276
Quantity carried to Sheet No. 46

Drainage Area = 31 Acres
Q 50 = 87 cfs.

CALC. U.J.Z DATE 7/20/66

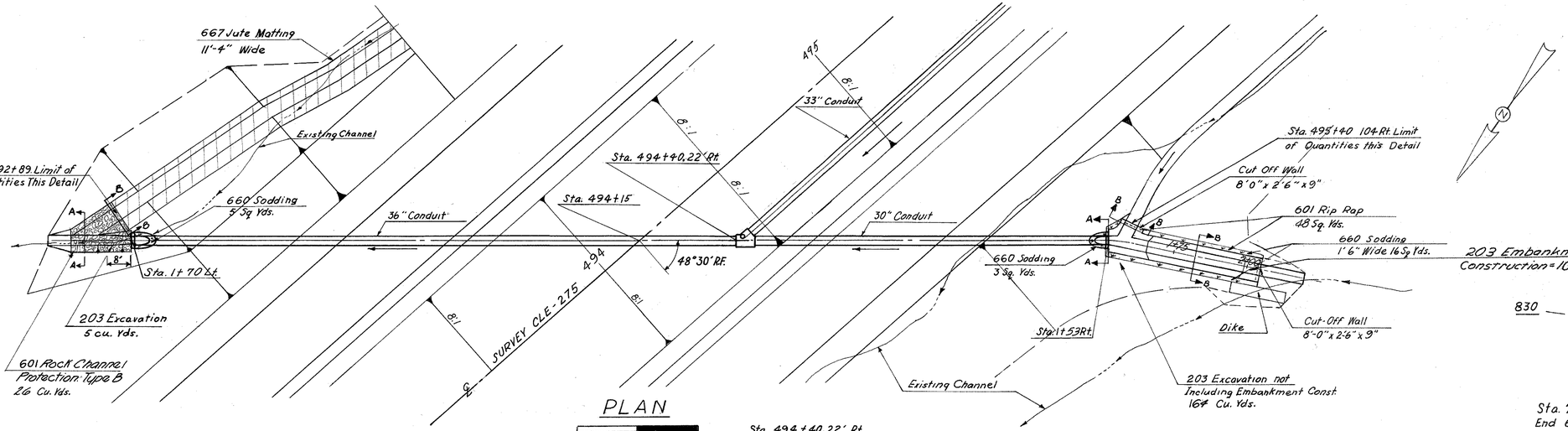
CHK'D R.J. DATE 10/6/69

DRAINAGE STRUCTURE STA. 486+11

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

455
638

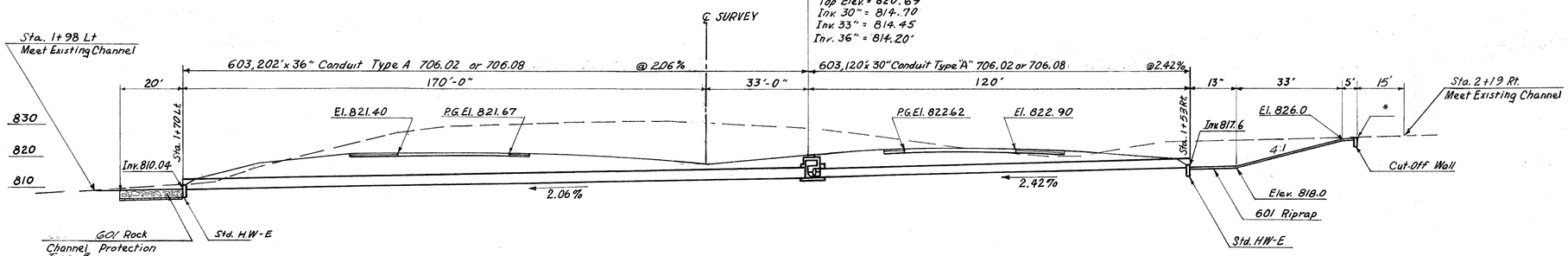
CLERMONT COUNTY
CLE-275-6.68



PLAN

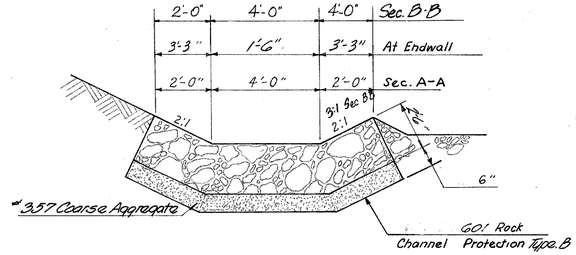
0 20 40

Sta. 494+40.22' Rt
604, Junction Chamber as per Plan (See Sht. No. 456)
Top Elev. = 820.69
Inv. 30" = 814.70
Inv. 33" = 814.45
Inv. 36" = 814.20'

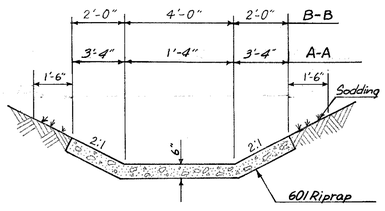


PROFILE

0 20 40



SECTION A-A



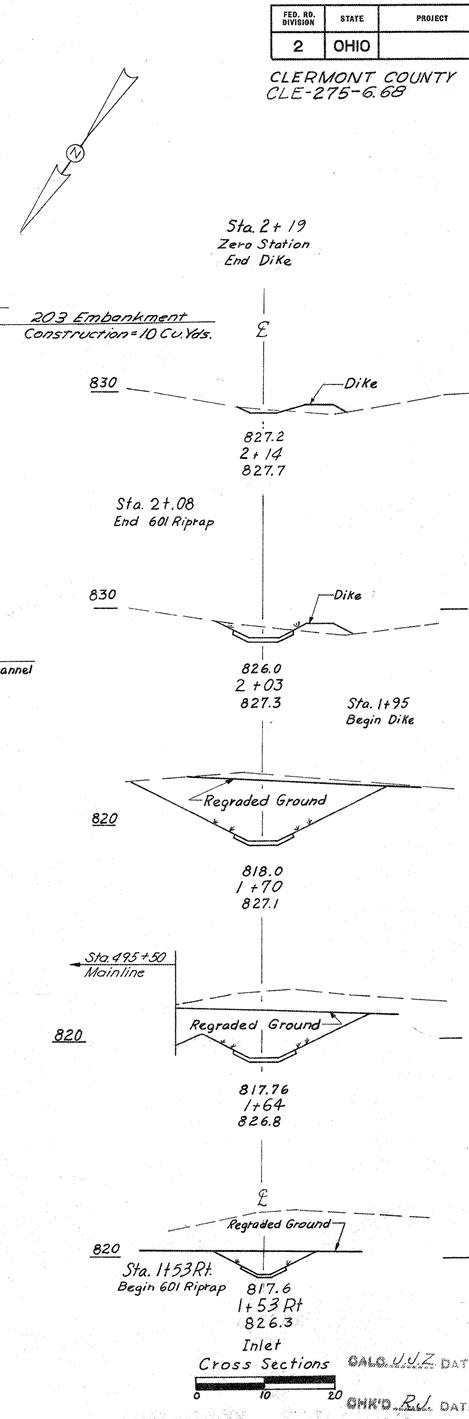
SECTION A-A & B-B

ESTIMATED QUANTITIES

	ITEM	DESCRIPTION	QUANTITY	UNIT
	601	Riprap (Using 6" Rein. Concrete Slab as per Plan)	51	Sq. Yds.
	601	Rock Channel Protection Type B	26	Cu. Yds.
	602	Concrete Masonry	1.10	Cu. Yds.
	603	30" Conduit Type "A", 706.02 or 706.08	120	Lin. Ft.
	603	36" Conduit Type "A", 706.02 or 706.08	202	Lin. Ft.
	604	Junction Chamber as per Plan	1	Each
□	203	Embankment	10	Cu. Yds.
□	203	Excavation not Including Embankment Const.	169	Cu. Yds.
	660	Sodding	24	Sq. Yds.

□ Quantity carried to sheet No. 282
* Depress 3" to 6" Below channel
Quantity carried to Sheet No. 46

Drainage Area	= 7 Acres
Q_{50}	= 34 c.f.s.



	END AREA		VOLUME	
	Cut	Fill	Cut	Fill
	0	0		
			1	0
	2	12		
			5	5
	16	9		
			108	5
	160	0		
				28
	88			
				22
	21			
Totals			164	10

Cross Sections CALC. J.J.Z. DATE 2/8/67

0 10 20

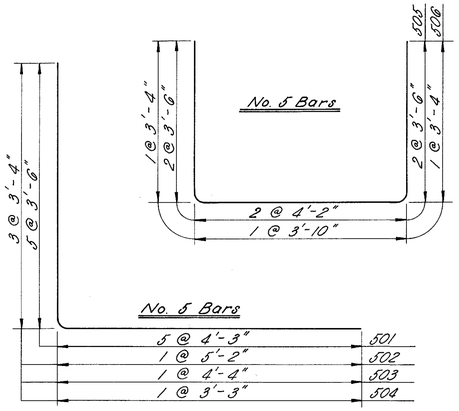
CHK'D. R.J. DATE 10/16/69

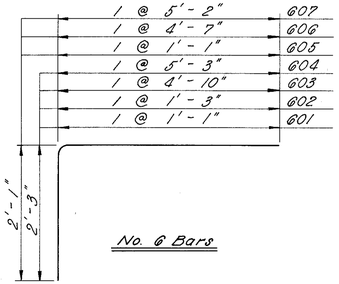
DRAINAGE STRUCTURE
STA. 494+15

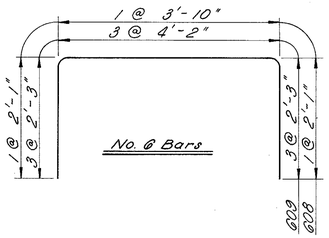
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

456
63B

CLERMONT COUNTY
CLE.-275-6.68







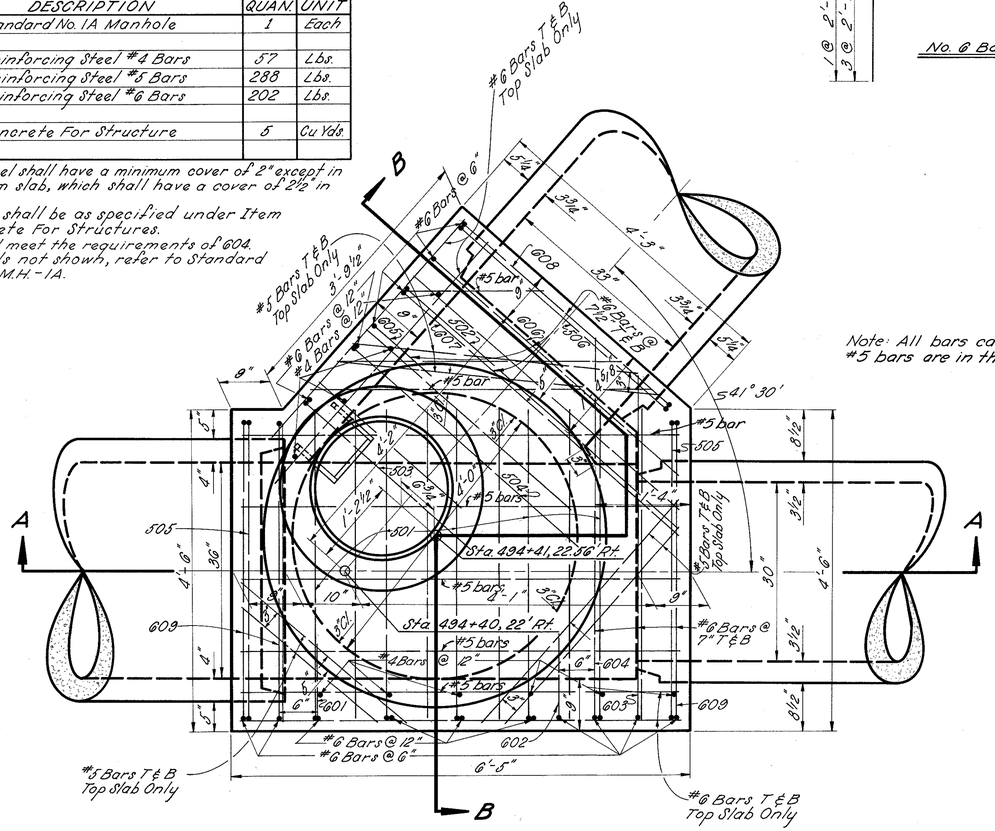
NOTE: These quantities are provided for the contractors convenience only. The State of Ohio makes no guarantee as to their accuracy or completeness.

ESTIMATED QUANTITIES *

	DESCRIPTION	QUAN.	UNIT
	Standard No. 1A Manhole	1	Each
	Reinforcing Steel #4 Bars	57	Lbs.
	Reinforcing Steel #5 Bars	288	Lbs.
	Reinforcing Steel #6 Bars	202	Lbs.
	Concrete For Structure	5	Cu Yds

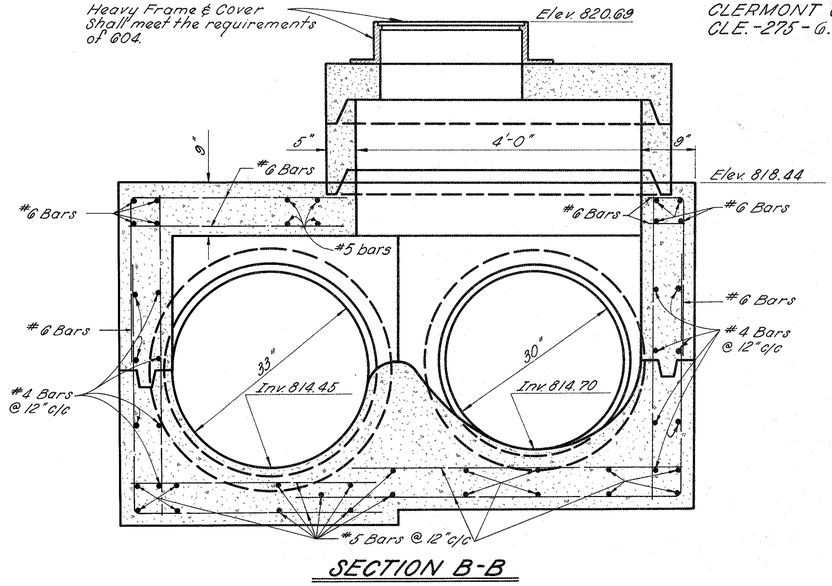
* These quantities are included for payment in item 604, Junction Chamber, as per plan.

NOTE: Steel shall have a minimum cover of 2" except in the bottom slab, which shall have a cover of 2½" in each face.
Concrete shall be as specified under Item 511 Concrete For Structures.
Steps shall meet the requirements of 604.
For details not shown, refer to Standard Drawing M.H.-1A.

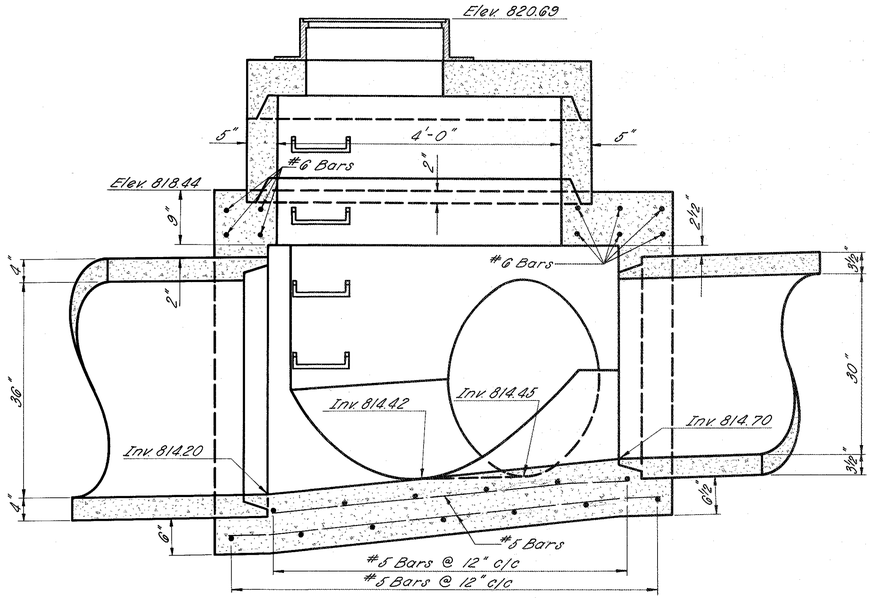


PLAN

Note: All bars called out as #5 bars are in the bottom slab.



SECTION B-B



SECTION A-A

CALC. J.J.Z. DATE 2/6/67

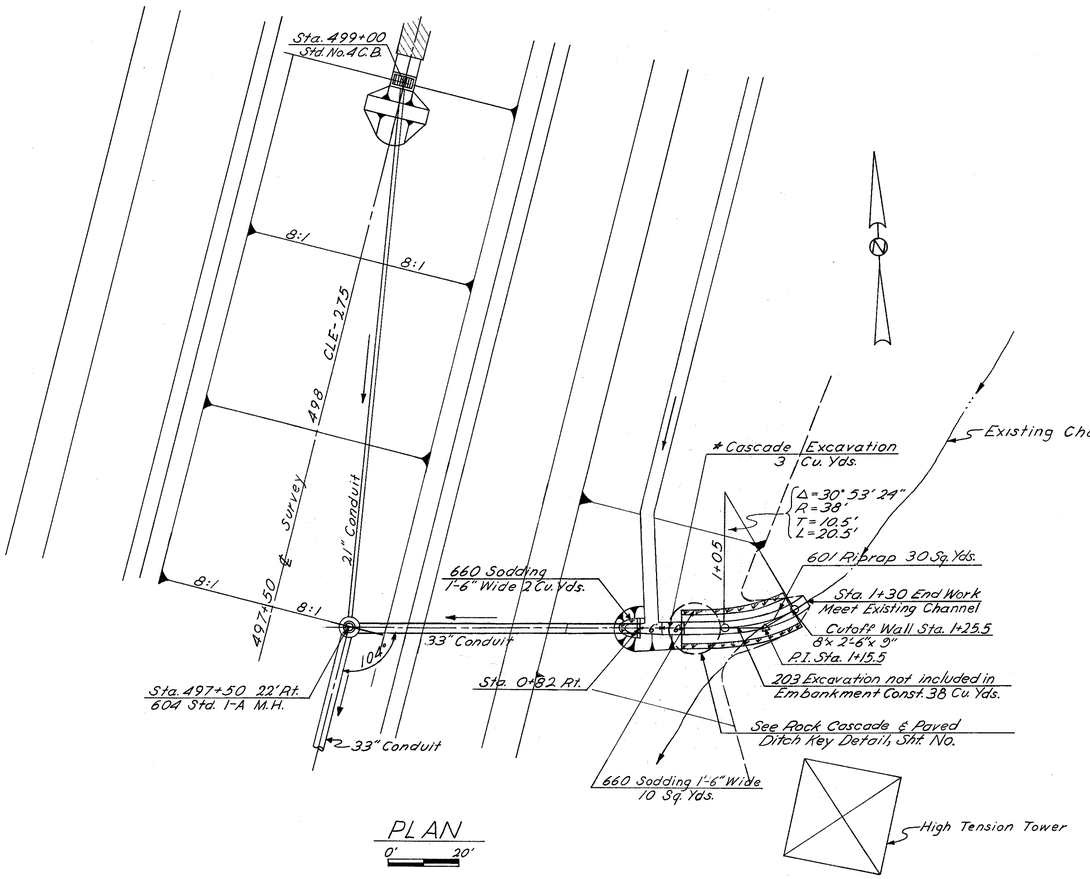
CHK'D R.J. DATE 10/21/69

JUNCTION CHAMBER DETAILS
STA 494+40, 22 RT.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

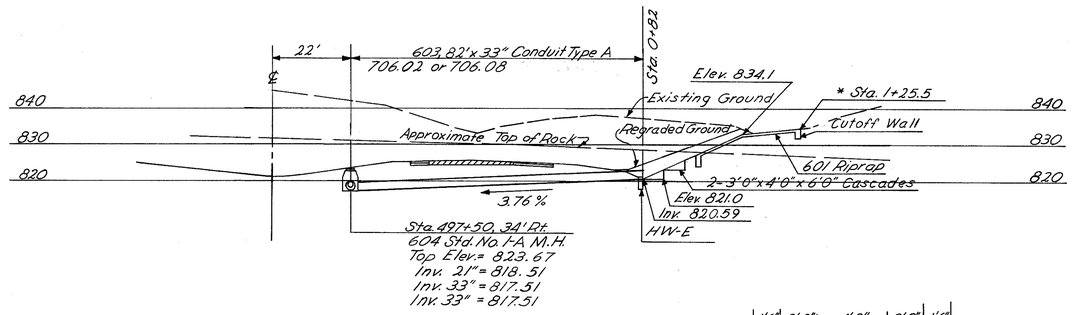
457/638

CLERMONT COUNTY
CLE-275-6.68

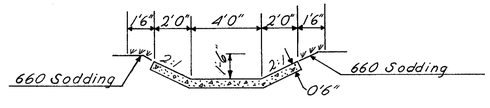


PLAN
0' 20'

Note: For Cascade Detail
See Sht. No. 434



PROFILE
0' 20'



Section A-A

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNIT
601	Riprap Using 6" Reinforced Conc. Slab	30	Sq. Yds.
602	Concrete Masonry	.55	Cu. Yds.
603	33" Conduit Type A 706.02 or 706.08	82	Lin. Ft.
660	Sodding	12	Sq. Yds.
□ 203	Excavation not including Embankment Const.	38	Cu. Yds.

Quantity carried to Sht. No. 49

* Note: 601 Riprap Shall Be Depressed 3" to 6" Below Finished Grade

Drainage Area = 7 Acres
Q 50 = 33 c.f.s.

□ Quantity carried to Sht. No. 283
* Cascade Excavation carried with 203 Exc. not incl. Emb. Const.

Sta. 1+30
Zero Section
℄
830
Sta. 1+25.5
End 601 Riprap
835.0
1+25.5
835.3

830
834.7
1+15
834.0

Regraded Gr.
830
834.1
1+09
834.7

Regraded Gr.
2:1
830
829.7
1+02
832.5

Sta. 0+97
Begin 601 Riprap

Regraded Gr.
1:1
830
Ahead 827.0
Back 824.0
0+94
829.0

Regraded Gr.
1:1
820
Ahead 824.0
Back 821.0
0+88
827.0

Mainline
Regraded Gr.
1:1
820
820.73
0+84
826.0

Regraded Gr.
2:1
820
820.59
0+82
825.0
℄

Cross Sections

End Area	Vol.	
0		
4	1	
	1	
0		
	3	
22		
	9	
60		
	11	
Ahead 12		
Back 24		
	5	
Ahead 22		
Back 34		
	5	
0		
	3	
38		
Total	38	

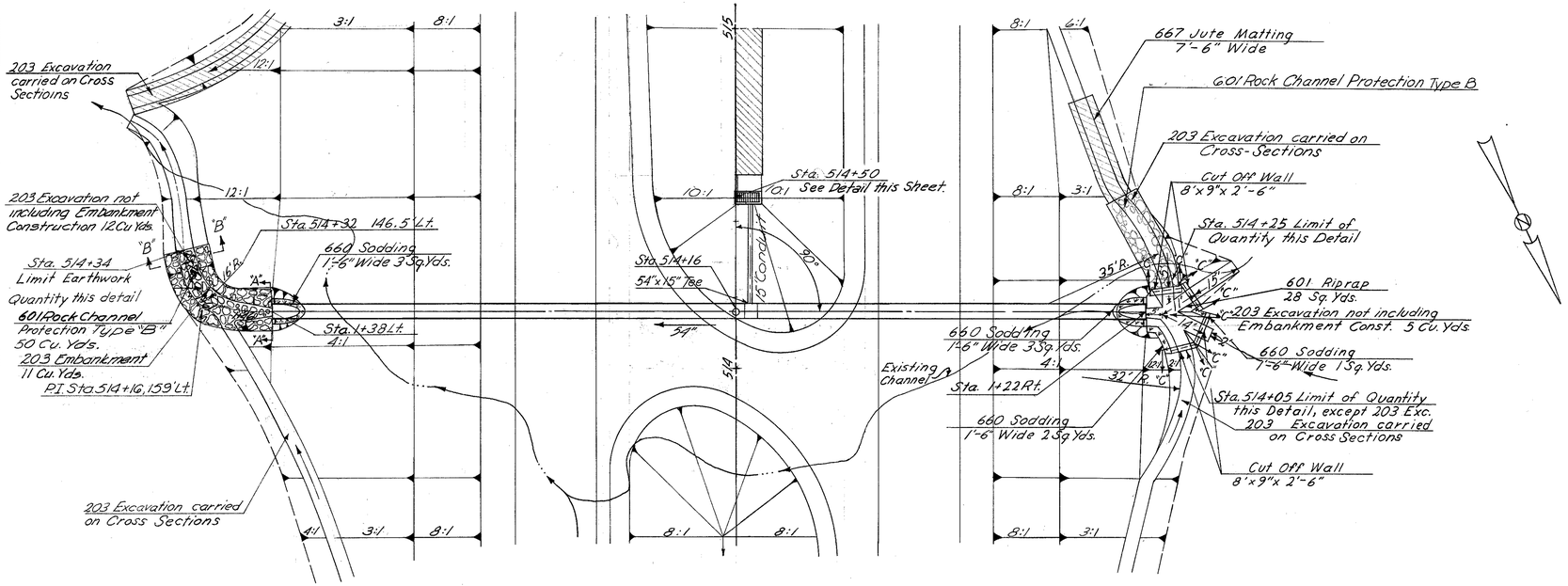
CALC. J.J.Z. DATE 2/8/67
CHK'D R.J. DATE 10/22/69

DRAINAGE STRUCTURE
STA. 497+50

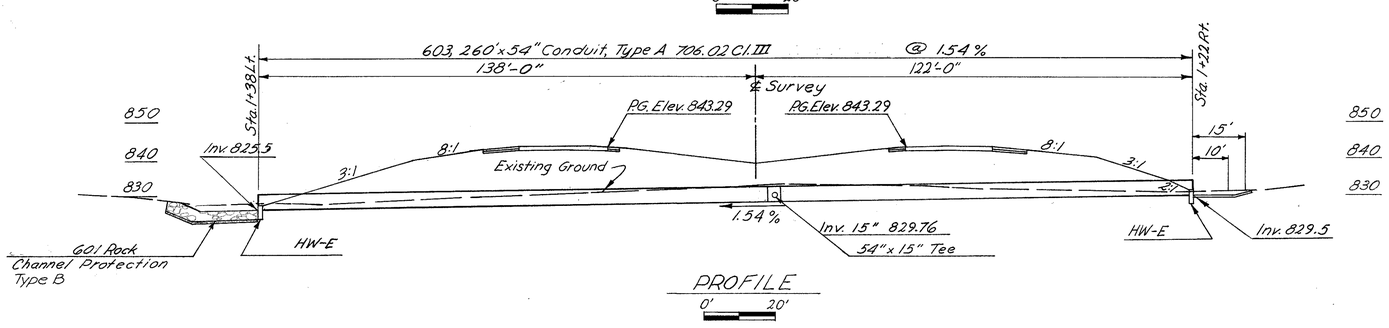
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

458
638

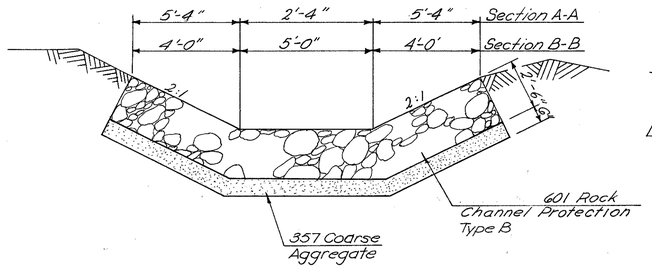
CLERMONT COUNTY
CLE-275-6.68

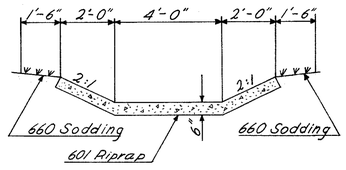


PLAN
0' 20'



PROFILE
0' 20'





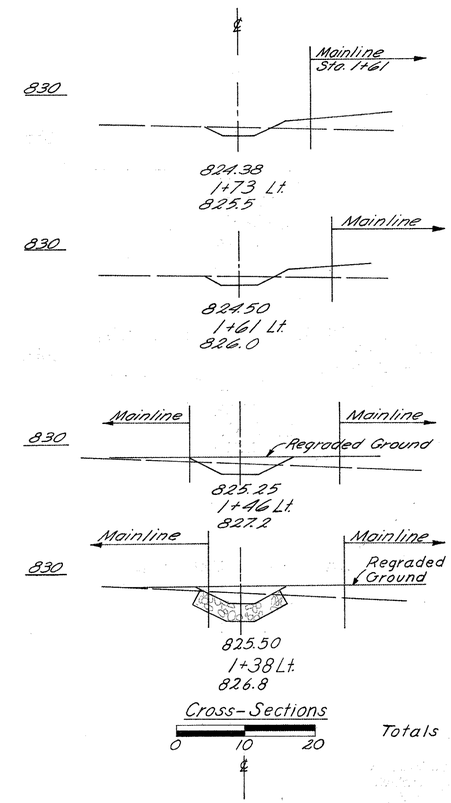
Section C-C

ESTIMATED QUANTITIES

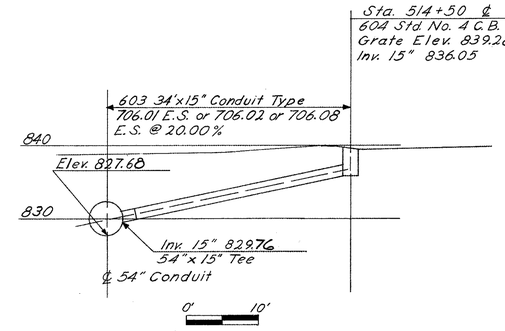
ITEM	DESCRIPTION	QUANTITY	UNIT
601	Rock Channel Protection Type B	50	Cu.Yds.
601	Riprap Using 6" Rein. Conc. Slab	28	Sq. Yds.
602	Concrete Masonry	1.92	Cu. Yds.
603	54" Conduit Type A, 706.02 Cl. III	260	Lin. Ft.
	54" x 15" Tee Conduit	1	Each
660	Sodding	9	Sq. Yds.
□ 203	Excavation not including Embankment Const.	17	Cu. Yds.
□ 203	Embankment	11	Cu. Yds.

Quantity carried to Sheet No. 49
□ Quantity carried to Sheet No. 292

Drainage Area = 71 Acres
Q50 = 152 c.f.s.



	End Area		Volume	
	Cut	Fill	Cut	Fill
	7	5		
			3	3
	8	8		
			6	5
	12	9		
			3	3
	9	12		
Totals			12	11



CALC. J.J.Z. DATE 7/19/66

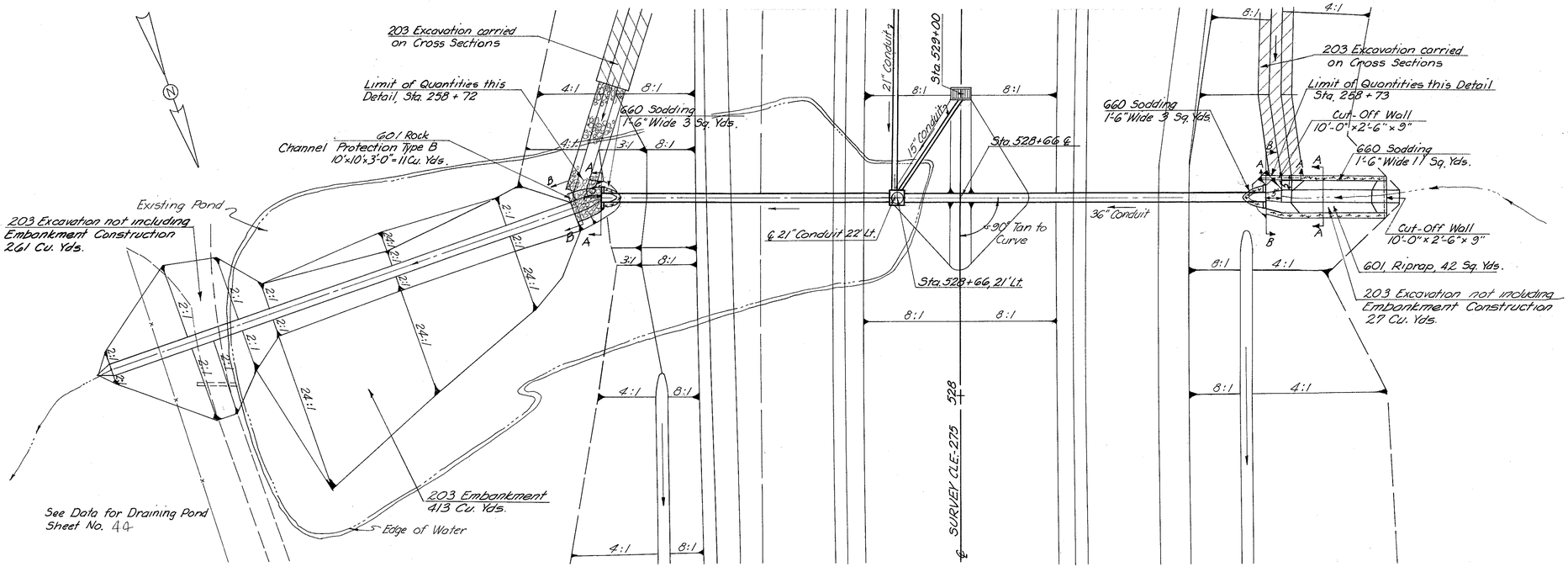
CHK'D R.J. DATE 10/22/69

DRAINAGE STRUCTURE STA. 514+16

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

4.59
6.38

CLERMONT COUNTY
CLE.-275-G.G8



PLAN

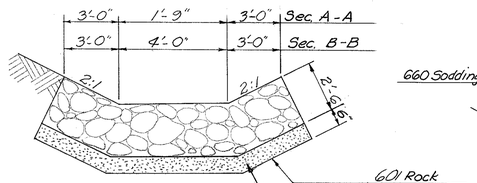
0 20 40

ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	QUANTITY	UNIT
601	Rock Channel Protection Type B	11	Cu. Yds
601	Riprap Using Reinf. Concrete	42	Sq. Yds
602	Concrete Masonry	1.18	Cu. Yds.
603	36" Conduit Type A, 706.02 or 706.08 with	220	Lin. Ft.
604	Standard No. 1-A Manhole	1	Each
660	Sodding	17	Sq. Yds.
□203	Excavation not including Embankment Construction	440	Cu. Yds.
□203	Embankment	261	Cu. Yds.

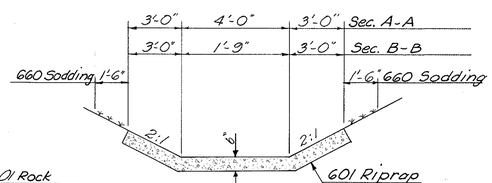
Quantity carried to Sheet No. 51

□Quantity carried to Sheet No. 300

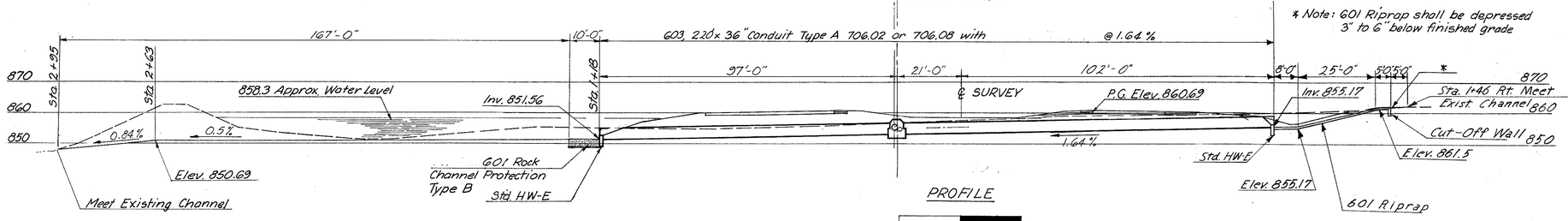
Drainage Area = 18 Acres
Q50 = 53 c.f.s.



SECTION A-A



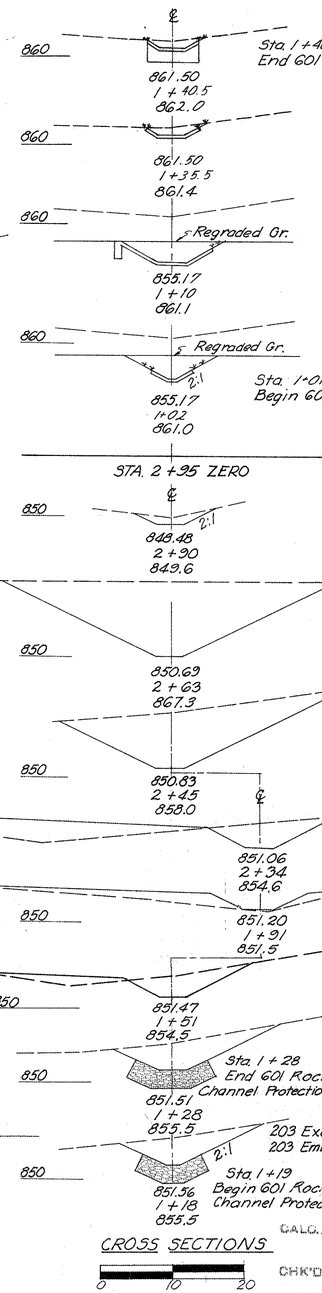
SECTION B-B



PROFILE

0 20 40

STA. 1+45
ZERO SECTION



	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	0		1	
	11			
			2	
	10			
			17	
	27			
			7	
	21			
TOTAL			27	
STA. 2+95 ZERO	0			
			1	
	8	0		
			125	
	242	0		
			135	
	165	0		
			41	33
	39	163		
			32	165
	1	46		
			25	52
	33	25		
			37	11
	55	0		
			17	0
	40	0		
			413	
				261

CALC. J.J.Z. DATE 10/31/66.

CROSS SECTIONS

0 10 20

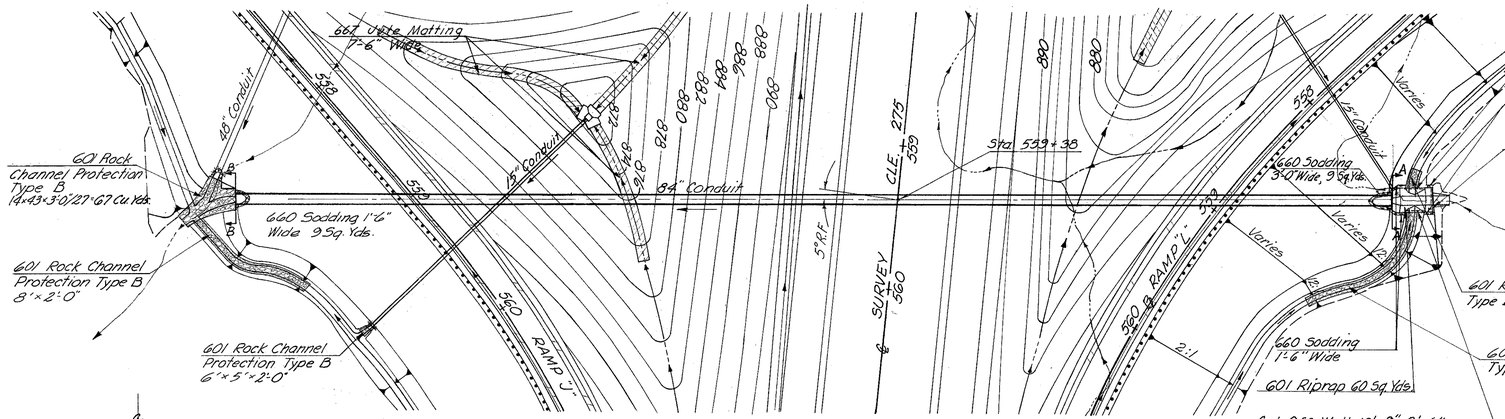
CHK'D R.J. DATE 10/22/69.

DRAINAGE STRUCTURE
STA. 528+66

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

460
638

CLERMONT COUNTY
CLE. 275-6.68



PLAN

0 50 100

END AREA		VOLUME	
Cut	Fill	Cut	Fill
0	0		
		0	1
0	4		
		6	1
26	0	Ahead	
9	0	Back	
		2	1
3	3		
		1	1
4	6		
		2	4
6	18		
		11	8

Totals
Sta. 4+62

Quantities Carried to Sheet No. 56
□ Quantities Carried to Sheet No. 319

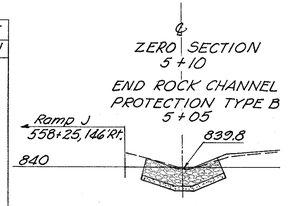
* Depress 3" to 6" below Channel

Drainage Area = 202 Acres
Q 50 = 254 cfs

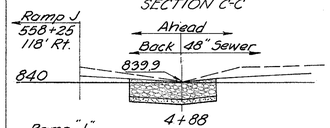
ESTIMATED QUANTITIES

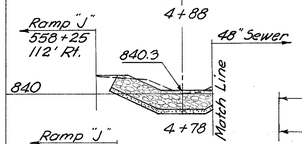
ITEM	DESCRIPTION	QUANTITY	UNIT
601	Riprap Using 6" Reinf. Concrete	60	Sq. Yds.
601	Rock Channel Protection Type B	67	Cu. Yds.
602	Concrete Masonry	7.4	Cu. Yds.
603	84" Conduit, Type A, 707.03 Ga. 8.5,	806	Lin. Ft.
660	Sodding	25	Sq. Yds.
□ 203	Excavation not including Embankment	193	Cu. Yds.
□ 203	Embankment	52	Cu. Yds.

ZERO SECTION
5+10
END ROCK CHANNEL PROTECTION TYPE B
5+05



5+01
SECTION C-C



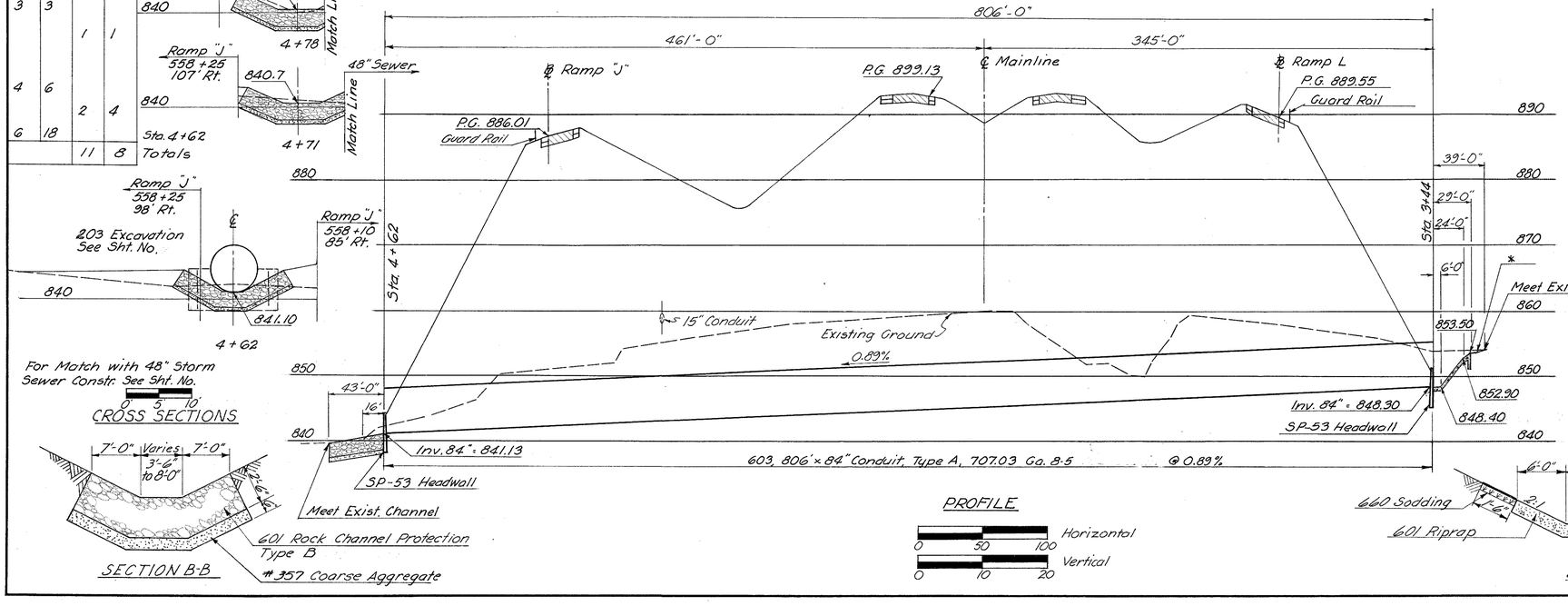


For Match with 48" Storm Sewer Constr. See Sht. No.

0 5 10'

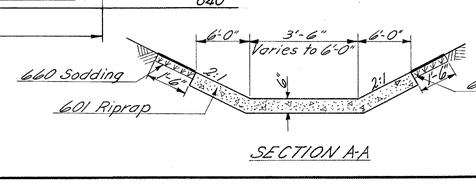
CROSS SECTIONS

SECTION B-B



PROFILE

0 50 100 Horizontal
0 10 20 Vertical



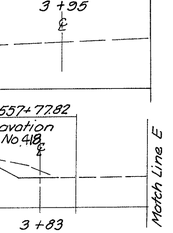
SECTION A-A

ZERO SECTION
3+95
℄

Ramp L
558+50

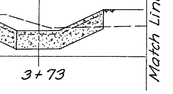
Match Line E

Ramp L 557+77.82
203 Excavation
See Sht. No. 418



Match Line D

Ramp L 557+77.82
203 Excavation
See Sht. No. 418



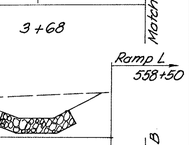
Match Line C

Ramp L 3ta. 557+77.82



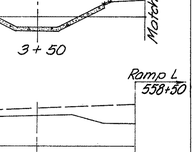
Match Line B

Ramp L
Sta. 557+77.82



Match Line A

Ramp L
Sta. 557+77.82



CROSS SECTIONS

0 5 10'

END AREA		VOLUME	
Cut	Fill	Cut	Fill
0	0		
		2	0
10	0		
		6	12
34	62		
		5	10
23	41		
		71	16
190	6		
		38	6
151	51		
Totals		122	44

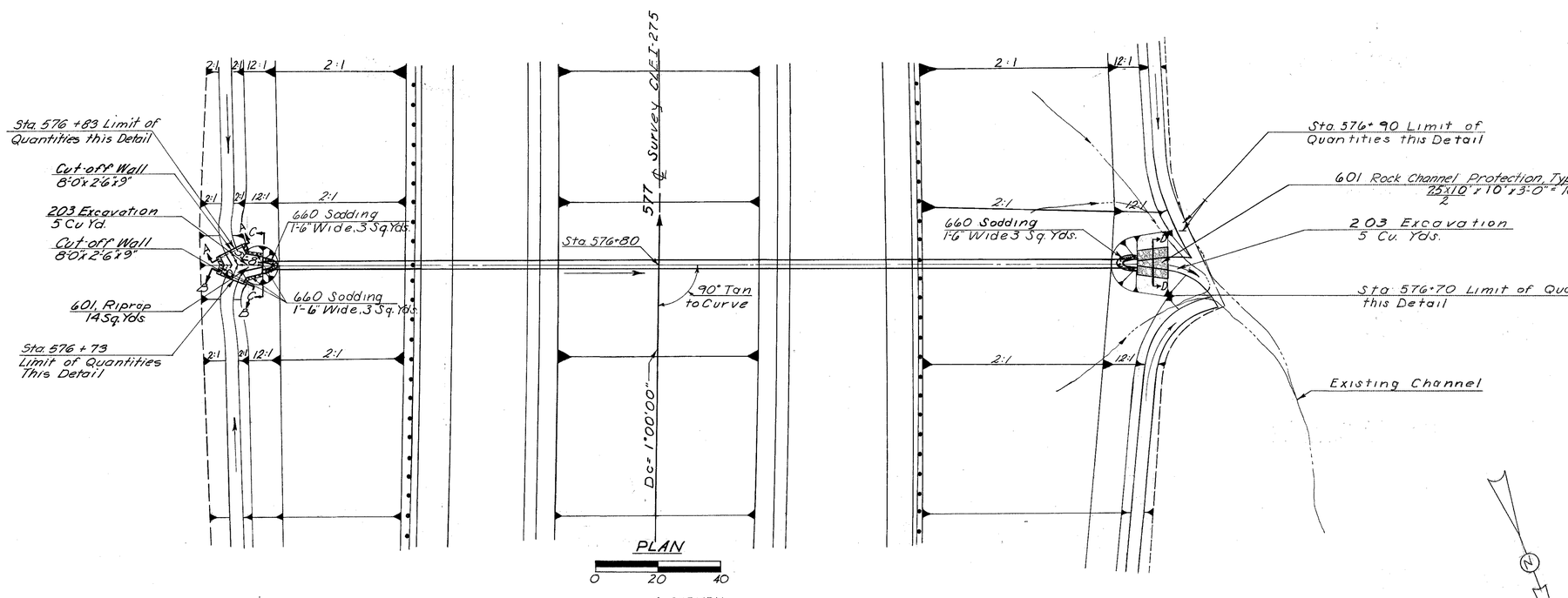
CALC. J.U.Z. DATE 2/10/67
CHK'D R.U. DATE 10/23/69

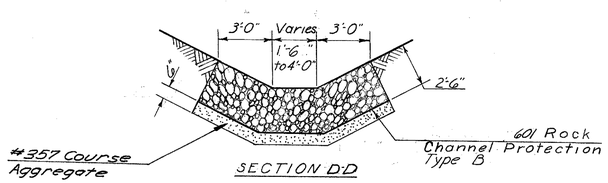
DRAINAGE STRUCTURE
STA. 559+38

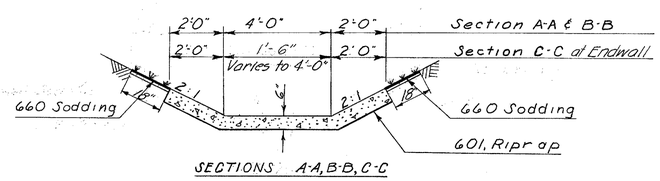
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

461
638

CLERMONT COUNTY
CLE.-275-6.68







ESTIMATED QUANTITIES

ITEM	DESCRIPTION	QUANTITIES	UNITS
601	Rock, Channel Protection Type B	10	Cu.Yds.
602	Concrete Masonry	1.10	Cu.Yds.
603	27" Conduit Type A 706.02 Cl. V	280	Lin. Ft.
660	Sodding	9	Sq. Yds.
601	Riprap using 6" Reinforced Concrete Slab	14	Sq. Yds.
□203	Excavation not Including Embankment Construction	10	Cu.Yds.

□ Quantities Carried to Sht. No. 327

Quantities carried to Sht. No. 56

Drainage Area	= 9 Acres
Q50	= 33 c.f.s.

CALC. J.J.Z. DATE 11/25/66

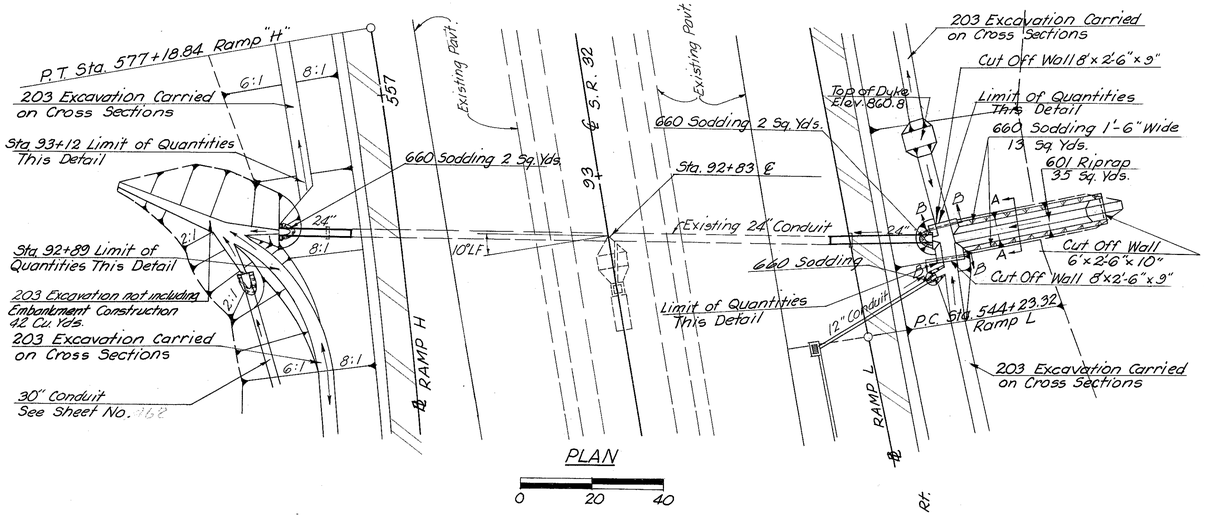
CHK'D B.J. DATE 10/24/69

DRAINAGE STRUCTURE STA. 576+80

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

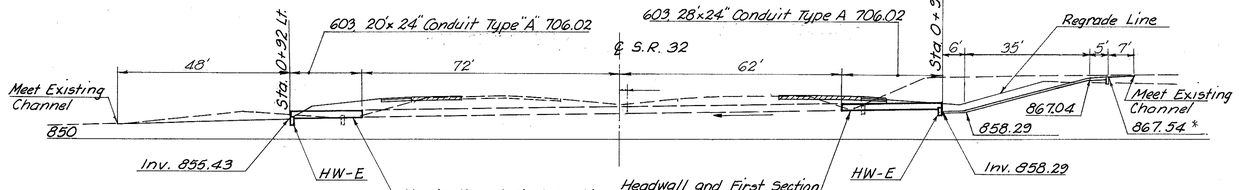
462
638

CLERMONT COUNTY
CLE.-275-6.68



PLAN

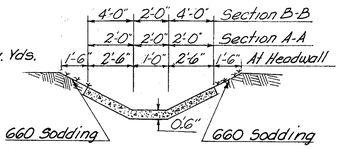
0 20 40



PROFILE

0 20 40

203 Excavation Rt.
$\frac{10+2}{2} \times 40 \times 2 \div 27$ = 18 Cu. Yds.



SECTION A-A

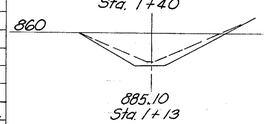
ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	QUANTITY	UNIT
601	Riprap Using 6" Reinforced Concrete Slab	35	Sq. Yds
602	Masonry	0.82	Cu. Yds.
603	24" Conduit Type "A" 706.02 Class III	48	Lin. Ft.
660	Sodding	17	Sq. Yds.
▫203	Excavation (Not including Embankment Construction)	60	Cu. Yds.

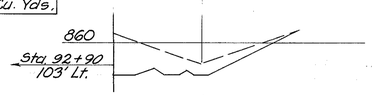
Quantity Carried to Sheet No. 76

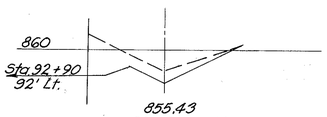
▫ Quantity Carried to Sheet No. 371
* Depress 3" to 6" below Channel.

Drainage Area = 35 Acres
Q 50 = 14 cfs

Zero Work
Sta. 1+40

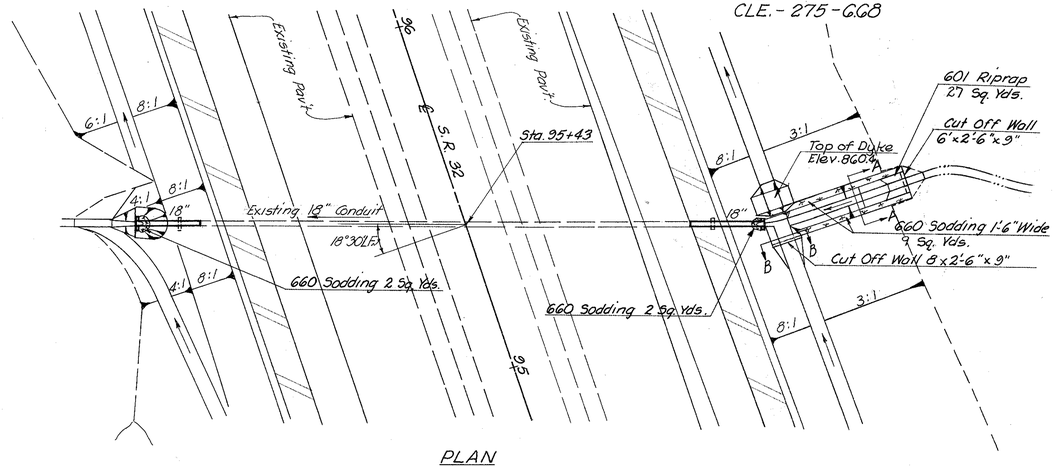






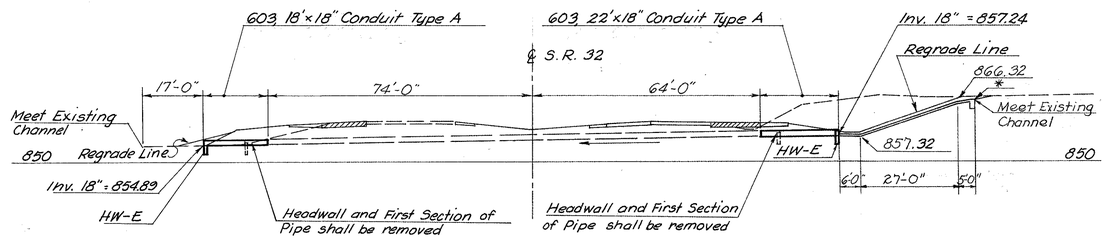
End Area		Volume	
Cut	Fill	Cut	Fill
0	0		
		10	0
19	0		
		18	0
56	0		
		14	0
41	0		
		42	

DRAINAGE STRUCTURE
STA. 92 + 83
S.R. 32



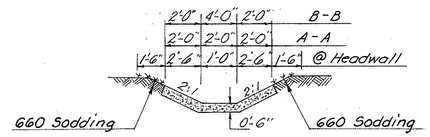
PLAN

0 20 40



PROFILE

0 20 40



SECTION A-A

203 Excavation Rt.
$\frac{33 \times 4 \times 1}{27}$ = 5 Cu. Yds.

ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	QUANTITY	UNIT
601	Riprap Using 6" Reinforced Concrete Slab	27	Sq. Yds.
602	Concrete Masonry	0.60	Cu. Yds.
603	18" Conduit Type "A" 706.02 or 706.01	40	Lin. Ft.
660	Sodding	13	Sq. Yds.
▫203	Excavation (not including embankment construction)	5	Cu. Yds.

Quantity carried to Sheet No. 76

▫ Quantity carried to Sheet No. 371
* Depress 3" to 6" below Channel.

Drainage Area = 3.5 Ac
Q 50 = 14 cfs

CALC. J.U.Z. DATE 2/8/67

CHK'D. R.J. DATE 10/15/69

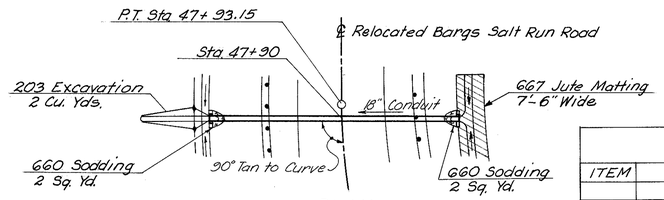
DRAINAGE STRUCTURE
STA. 95 + 43

S.R. 32 DRAINAGE STRUCTURES STA. 92 + 83 AND STA. 95 + 43

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

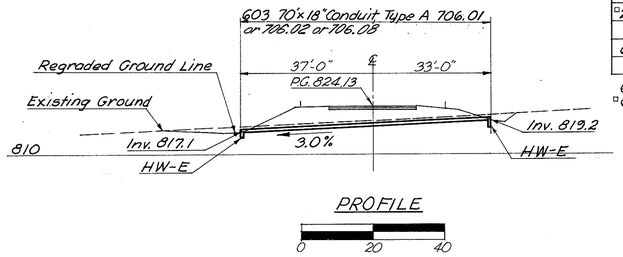
463
638

CLERMONT COUNTY
CLE. -275-6.68



PLAN

0 20 40



PROFILE

0 20 40

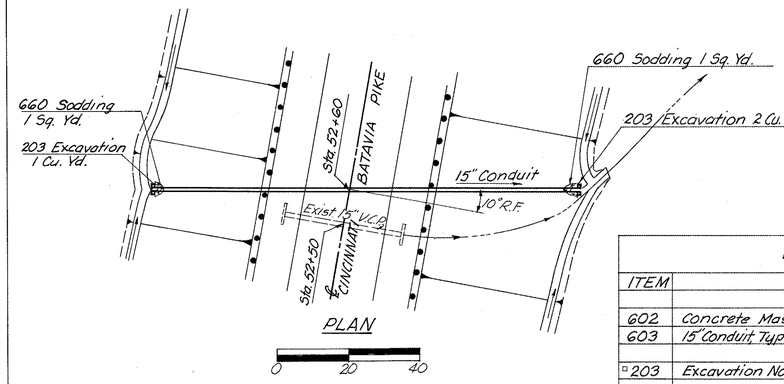
ESTIMATED QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNIT
602	Concrete Masonry	0.60	Cu. Yd.
603	18" Conduit Type A 706.01 or 706.02 or 706.08	70	Lin. Ft.
□203	Excavation not Including Embankment Construction	2	Cu. Yds.
660	Sodding	4	Sq. Yds.

Quantity Carried to Sheet No. 67
□Quantity Carried to Sheet No. 348

Drainage Area = 24 Acres
Q 25 = 10 cfs

BARGS SALT RUN ROAD
DRAINAGE STRUCTURE
STA. 47+90



PROFILE

0 20 40

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNIT
602	Concrete Masonry	.52	Cu. Yd.
603	15" Conduit Type A, 706.02 Cl. IV	120	Lin. Ft.
□203	Excavation Not Including Embankment Construction	3	Cu. Yds.
660	Sodding	2	Sq. Yds.

Quantity Carried To Sheet No. 69
□Quantity Carried To Sheet No. 352.

Drainage Area = 1.36 Acres
Q 25 = 6 cfs

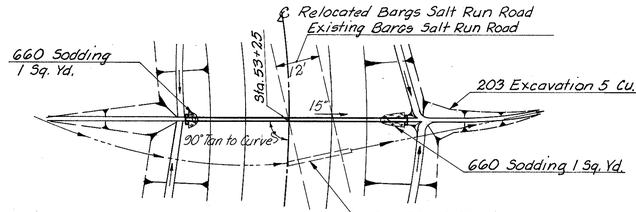
CINCINNATI-BATAVIA PIKE
DRAINAGE STRUCTURE
STA. 52+60

Sta. 0+67
Zero Section

End Area Cut	End Area Fill	Volume Cut	Volume Fill
0	0		
		8	0
14	0		
		2	0
0	0		
		10	0

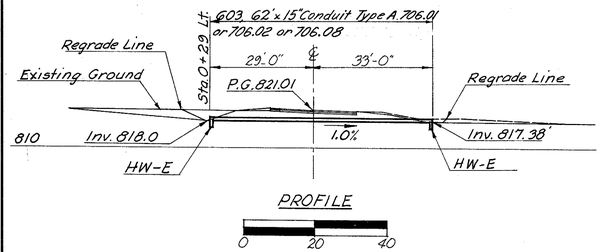
818.5
Sta. 0+39
821.0

Sta. 0+31 Lt.
Zero Section



PLAN

0 20 40



PROFILE

0 20 40

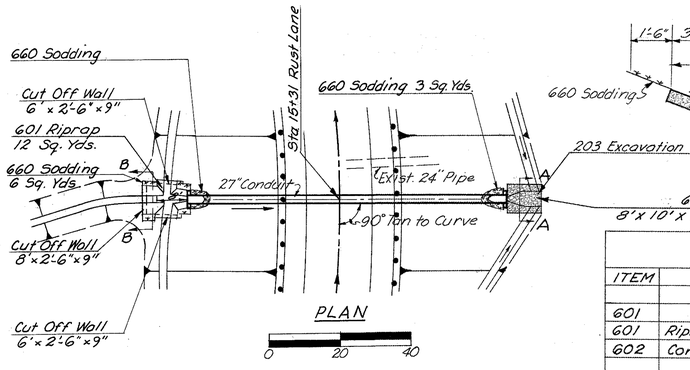
ESTIMATED QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNIT
602	Concrete Masonry	0.46	Cu. Yd.
603	15" Conduit Type A, 706.02 or 706.01 or 706.08	62	Lin. Ft.
□203	Excavation Not Including Embankment Construction	15	Cu. Yd
660	Sodding	2	Sq. Yd.

Quantity Carried to Sheet No. 67
□Quantity Carried to Sheet No. 348

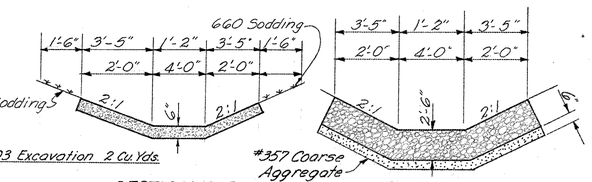
Drainage Area = 1 Acre
Q 25 = 4 cfs

BARGS SALT RUN ROAD
DRAINAGE STRUCTURE
STA. 53+25



PROFILE

0 20 40



ESTIMATED QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNIT
601	Rock Channel Protection Type B	9	Cu Yds
601	Riprap Using 6" Rein. Conc. Slab	12	Sq. Yds.
602	Concrete Masonry	0.94	Cu. Yd.
603	27" Conduit Type A, 706.02 Cl. III or 706.08	90	Lin. Ft.
□203	Excavation Not Including Embankment Construction	2	Cu. Yds.
660	Sodding	9	Sq. Yd.

□Quantities Carried to Sheet No. 426

Drainage Area = 9 Acres
Q 25 = 27 cfs

Quantities carried to Sht. No. 93

CALC. J.J.Z. DATE 11/14/66
CHK'D R.J. DATE 10/15/66

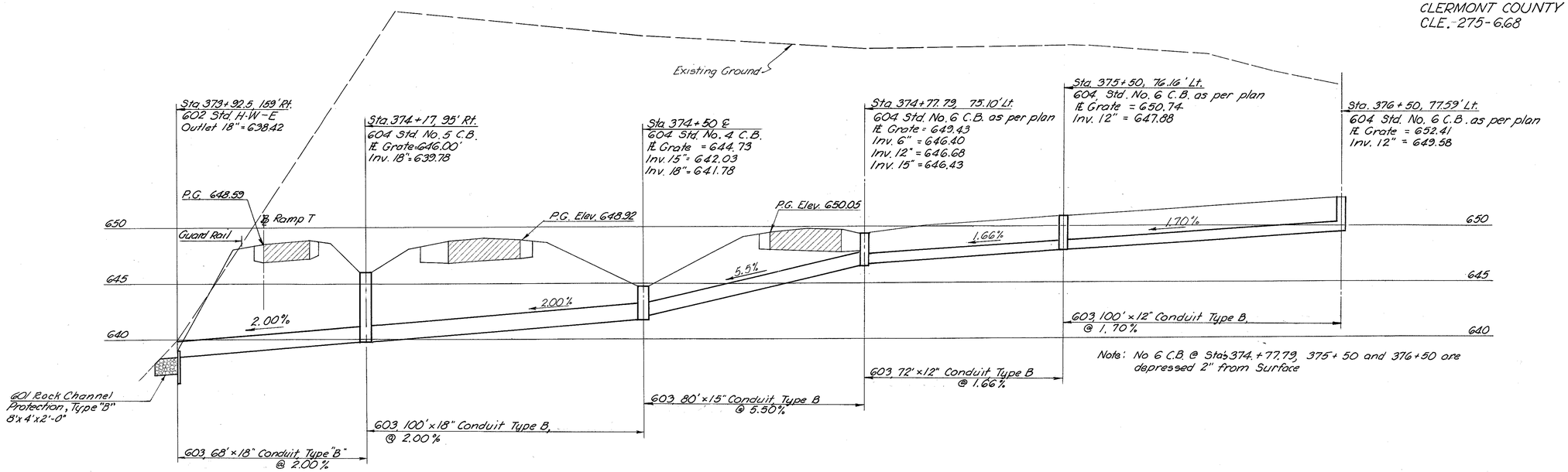
RUST LANE
DRAINAGE STRUCTURE
STA. 15+31

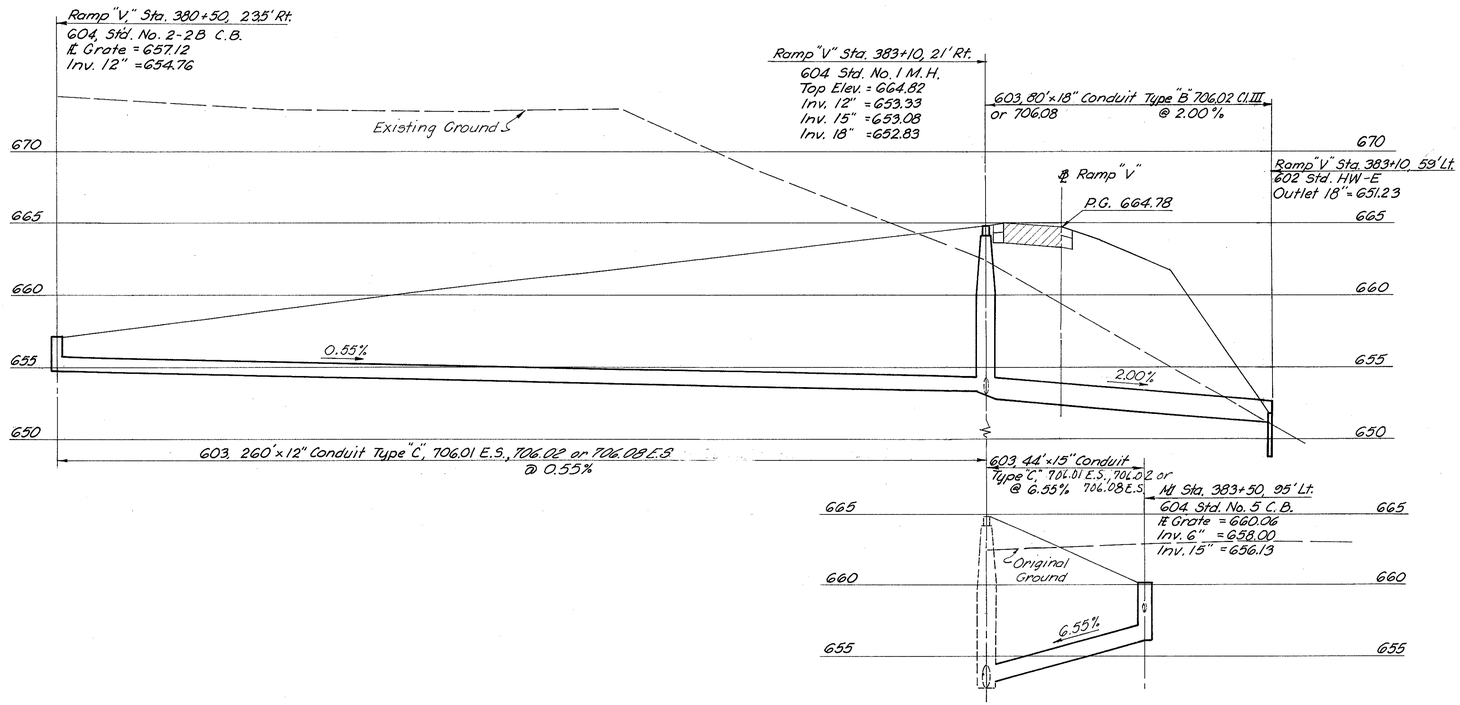
DRAINAGE STRUCTURES
BARGS SALT RUN RD. STA. 53+25 & STA. 47+90
CINCINNATI-BATAVIA PIKE STA. 52+60
RUST LANE STA. 15+31

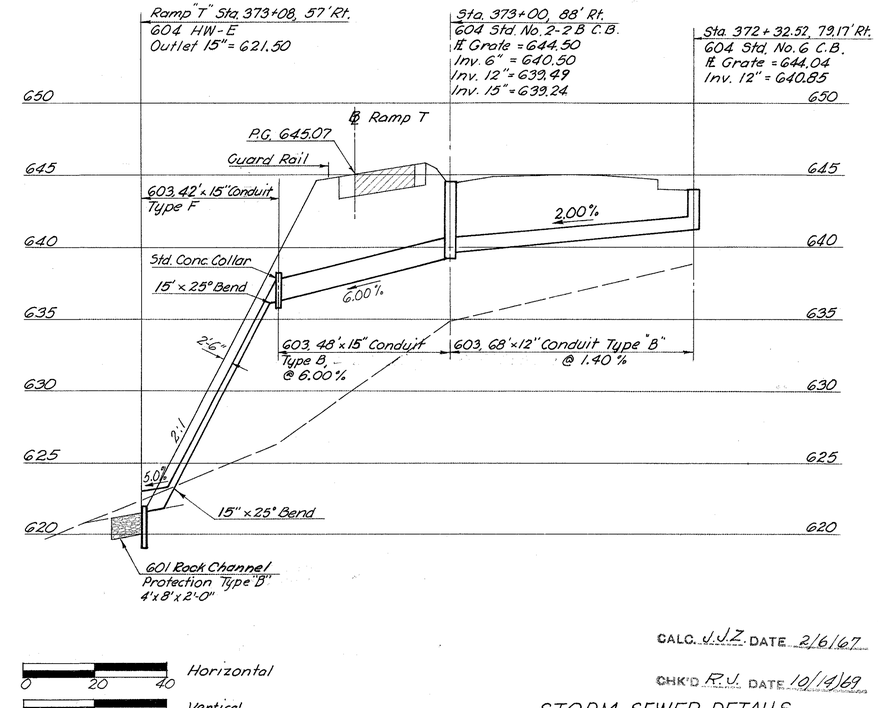
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

464
638

CLERMONT COUNTY
CLE.-275-6.68







Horizontal 0 20 40
Vertical 0 5 10

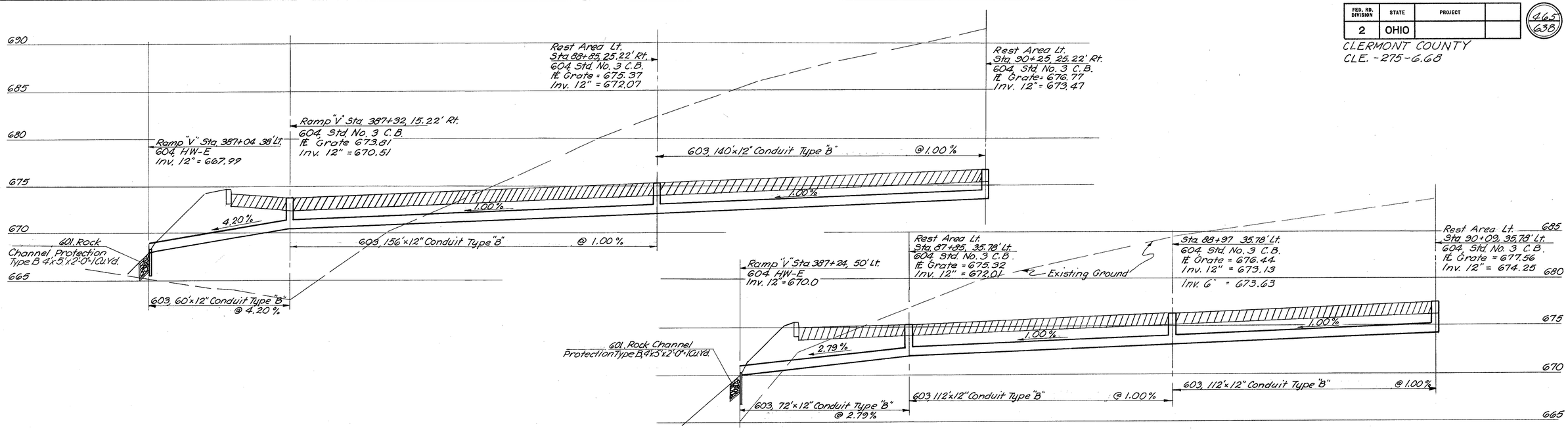
CALC. J.J.Z. DATE 2/6/67
CHK'D R.V. DATE 10/19/69

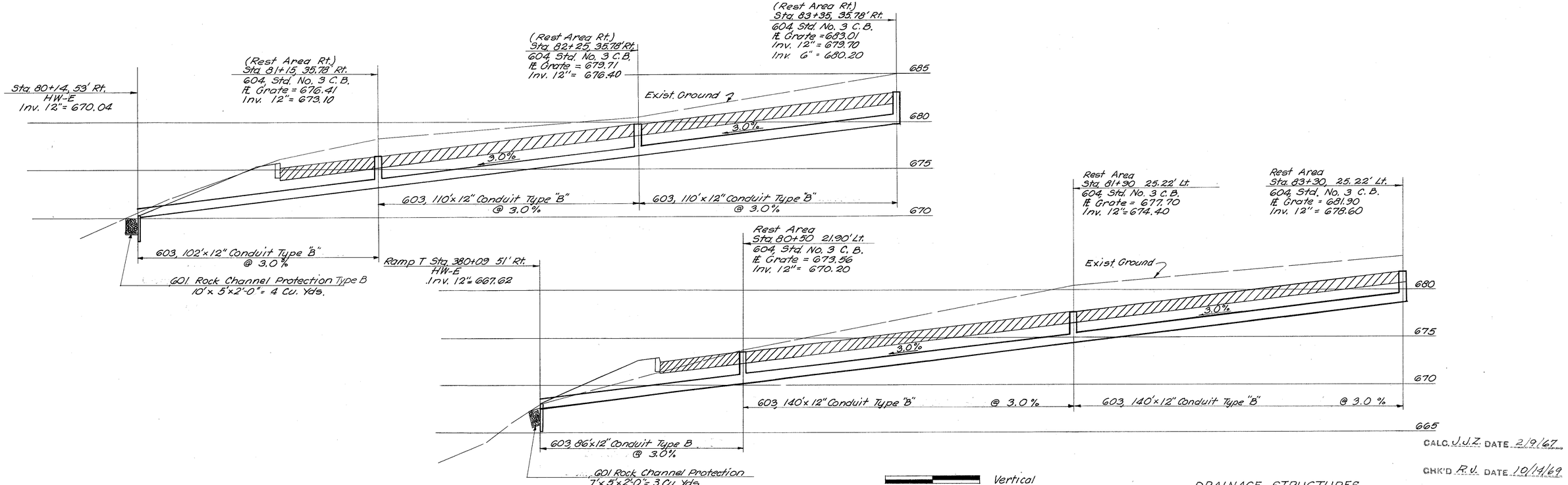
STORM SEWER DETAILS
MAINLINE STA. 373+00
RAMP "V" STA. 383+10

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

4.65
638

CLERMONT COUNTY
CLE. -275-6.68





0 5 10 Vertical

0 20 40 Horizontal

CALC. J.J.Z. DATE 2/9/67

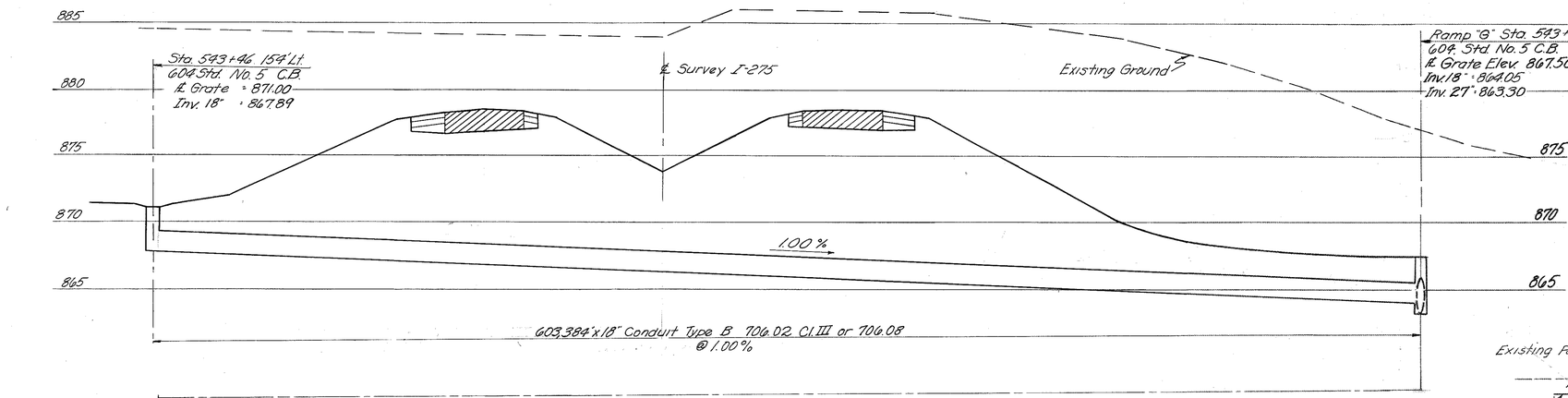
CHK'D R.V. DATE 10/14/69

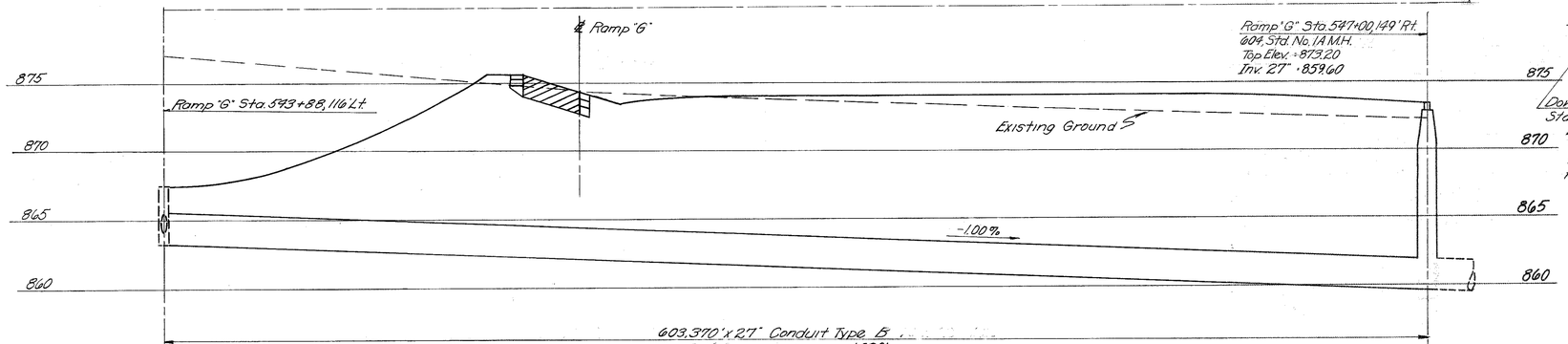
DRAINAGE STRUCTURES
RAMP "V" STA. 387+04 TO REST AREA STA. 90+25.
RAMP "V" STA. 387+24 TO REST AREA STA. 90+09
REST AREA STA. 80+14 TO REST AREA STA 83+35
RAMP "T" STA. 380+09 TO REST AREA STA. 83+30

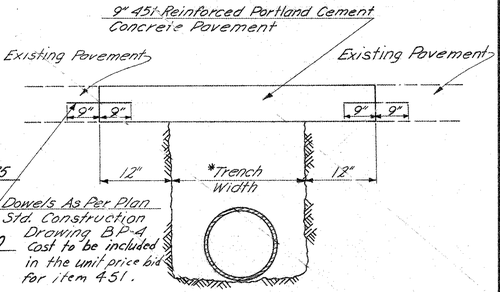
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

466
638

CLERMONT COUNTY
CLE.-275-6.68

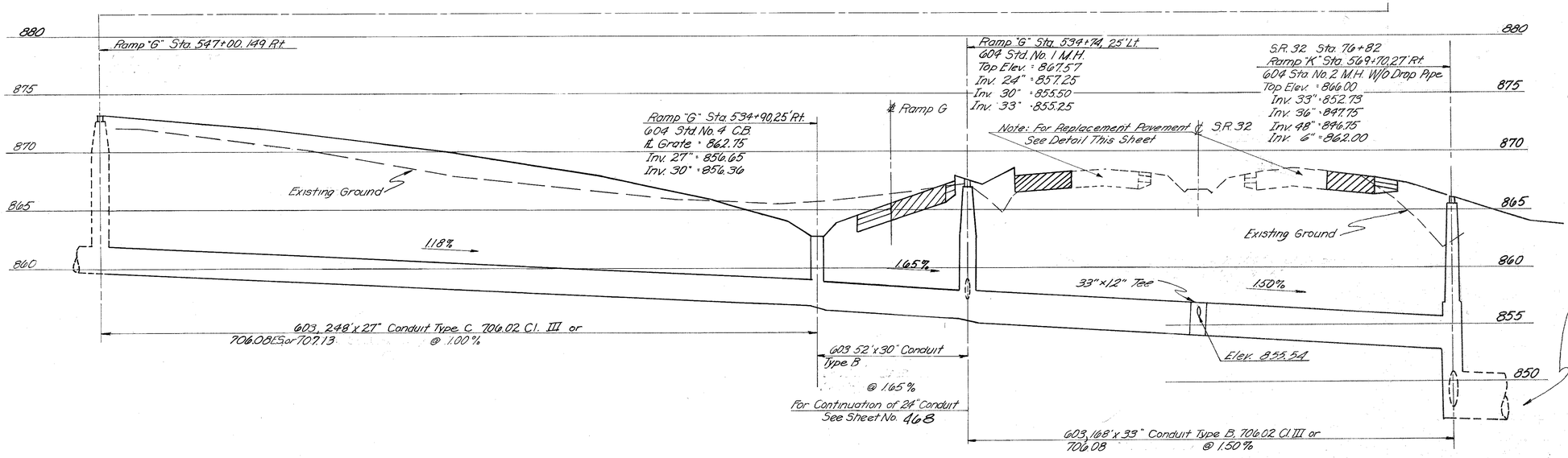






*Note: Trench Width Shall Be
Pipe (Outside Diameter) + 2'-0" for 24" & Under
" " + 2'-6" for Over 24"

DETAIL
PAVEMENT REPLACEMENT



CALC. C.R.S. DATE 2/10/67

CHK'D R.J. DATE 10/14/69

For Continuation See Sheet No's 468

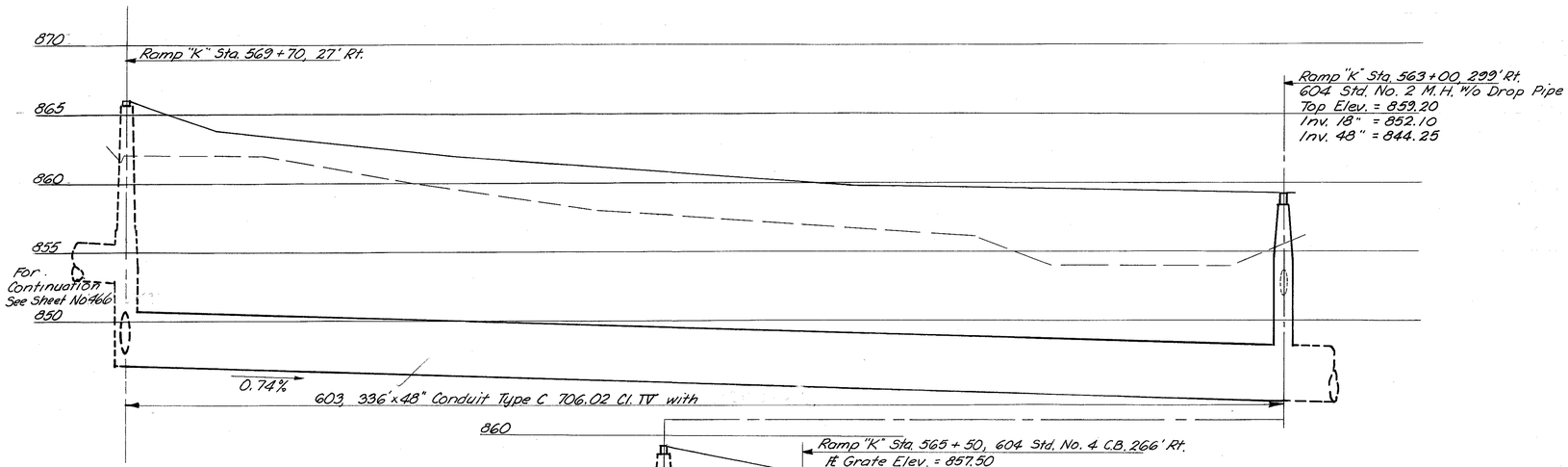
SCALE
0 20 40
Horizontal
0 5 10
Vertical

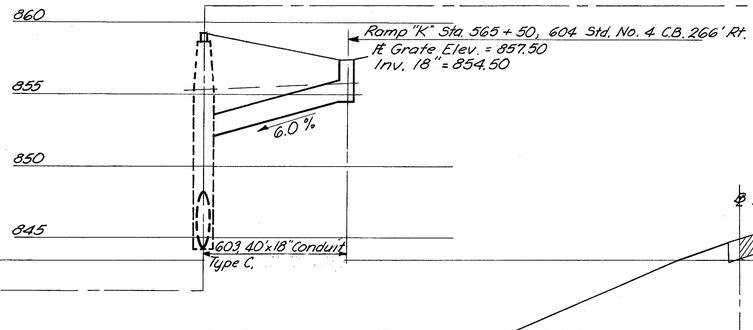
S.R. 32 INTERCHANGE
STORM SEWER DETAILS
MAINLINE STA. 543+46
TO RAMP "K" STA. 569+70

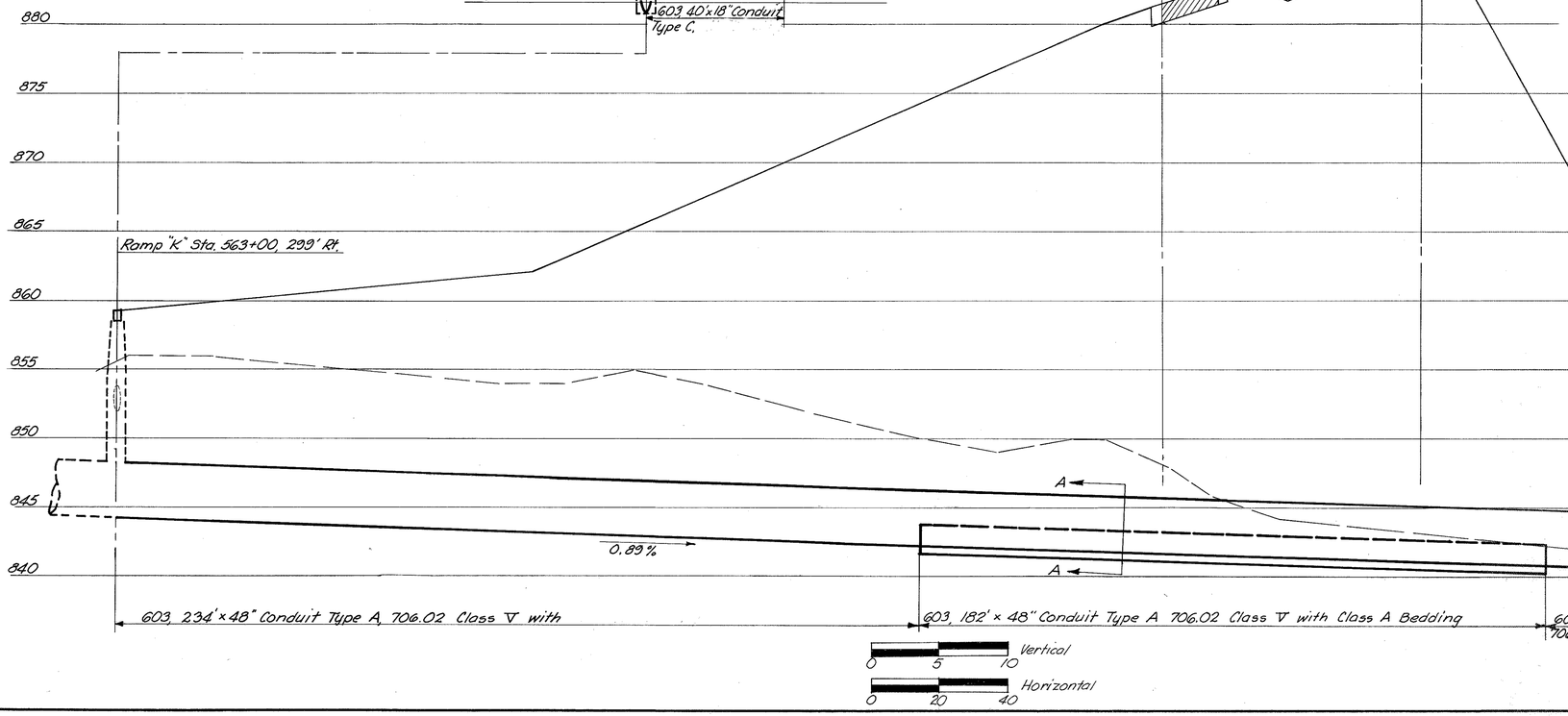
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

467
630

CLERMONT COUNTY
CLE. - 275 - 6.68

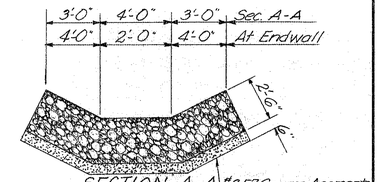


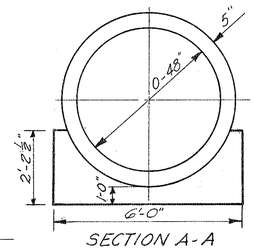


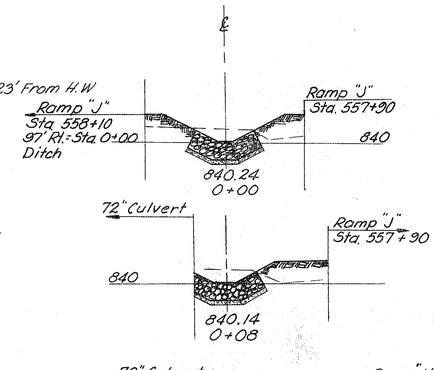


End Area		Volume		
Cut	Fill	Cut	Fill	
10.0	22.0			0' At. H. W.
		4	6	
14.0	19.0			8' From H.W
		2	3	
12.0	26.0			12' From H.W
		3	6	
13.0	0			23' From H.W
□ Totals		9	15	

□ Quantity Carried to sheet No. 401







For Plan Detail of 48" Conduit and Match with 84" Culvert See Sheet No. 460

CALC. C.R.S. DATE 2/10/67

CHK'D R. J. DATE 10/14/69

S. R. 32 INTERCHANGE
STORM SEWER DETAILS
RAMP "K" STA. 569 + 70
TO RAMP "J" STA. 558+02

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

468
630

CLERMONT COUNTY
CLE.-275-0.68

SR 32 Sta. 72+00 152' Lt
604 Std. No. 4 C.B.
℄ Grate Elev. 863.00
Inv. 24" = 860.34

Existing Ground

Ramp "G" Sta. 534+74.25' Lt.
Inv. 24" = 857.25
For Continuation See Sheet No. 466

870
865
860
855

0.64%

603, 484' x 24" Conduit Type C 706.02 or 706.08 E.S. or 707.13 @ 0.64%

Ramp L. Sta. 548+75.25' Lt.
604 Std. No. 5 C.B.
℄ Grate = 857.73
℄ 6" = 856.37
Inv. 24" = 854.87

SR 32 Sta. 81+79, 83.5' Rt

℄ Ramp "M"

SR 32 Sta. 82+00 ℄
Existing 2-2 A C.B.

1.84%

Remove Existing Headwall
& First Length of Existing 18" Conduit

603, 22' x 18" Conduit Type B
706.02 or 706.01 @ 1.84%

Ramp "M" Sta. 563+70, 7' Lt

Ramp "M" Sta. 563+62.25' Lt
604 Std. No. 4 C.B.
℄ Grate Elev. = 860.38
Inv. 18" = 857.73

5.0%

603, 20' x 18" Conduit Type C
@ 5.0%

SR 32 Sta. 86+17, 159' Rt
604 Std. No. 4 C.B.
℄ Grate Elev. = 859.50
Inv. 24" = 854.03
Inv. 27" = 853.78

603, 210' x 24" Conduit Type B @ 0.40%

℄ Ramp "L"

0.40%

SR 32 Sta. 86+17, 159' Rt

SR 32 Sta. 81+79, 83.5' Rt
604 Std. No. 2 M.H. W/o Drop Pipe
Top Elev. = 864.04
Inv. 18" = 860.69
Inv. 33" = 851.21
Inv. 6" = 860.00

Ramp "M" Sta. 563+70, 7' Lt
604 Std. No. 1 M.H.
Top Elev. = 862.42
Inv. 18" = 856.73
Inv. 27" = 852.58
Inv. 33" = 852.08
Inv. 6" = 856.59

MATCH LINE "A"

Existing Ground

℄ Ramp M

Existing Ground

0.60%

603, 282' x 33" Conduit Type C 706.02 Cl. III or 707.13 @ 0.60%

0.60%

603, 146' x 33" Conduit Type C 706.02 Cl. III or 706.08 E.S. or 707.13 @ 0.60%

0.40%

603, 300' x 27" Conduit Type B @ 0.40%

Ramp "K" Sta. 569+70, 27' Rt

SR 32 Sta. 78+06, 79' Rt.
604 Std. No. 2 M.H. w/o Drop Pipe
Top Elev. = 865.75
Inv. 27" = 859.20 ± Existing Conduit
Inv. 33" = 858.98
Inv. 36" = 858.51

Remove 8' of
Existing Conduit
Outlet into Manhole

SR 32 Sta. 78+95.5, 77' Rt.
604 Std. No. 2 M.H. W/O Drop Pipe
Top Elev. = 865.52
Inv. 12" = 861.52
Inv. 33" = 849.52

℄ ML

Existing Ground

MATCH LINE "A"

For Continuation
See Sht. Nos 466 & 467

0.60%

603, 126' x 36" Conduit Type C
706.02 Cl. III or 707.13 126a. @ 0.60%

0.60%

603, 90' x 33" Conduit Type C
706.02 Cl. III or 707.13 @ 0.60%

0.60%

603, 282' x 33" Conduit Type C 706.02 Cl. III or 707.13
@ 0.60%

SCALE
0 5 10
Vertical
0 20 40
Horizontal

Main Line Sta. 552+43
604 Std. No. 2-2B C.B.
℄ Grate Elev. = 883.25
Inv. 12" = 881.90

SR 32 Sta. 78+95.5
Std. Conc. Collar

12" x 25° Bend

2.00%
880.52

2'-6"

2:1 Slope

603, 44' x 12" Conduit
Type C @ 2.00%

12" x 25° Bend

2.0%

861.52

4'

603, 92' x 12" Conduit
Type F

Existing Ground

CALC. C.A.S. DATE 2/10/67

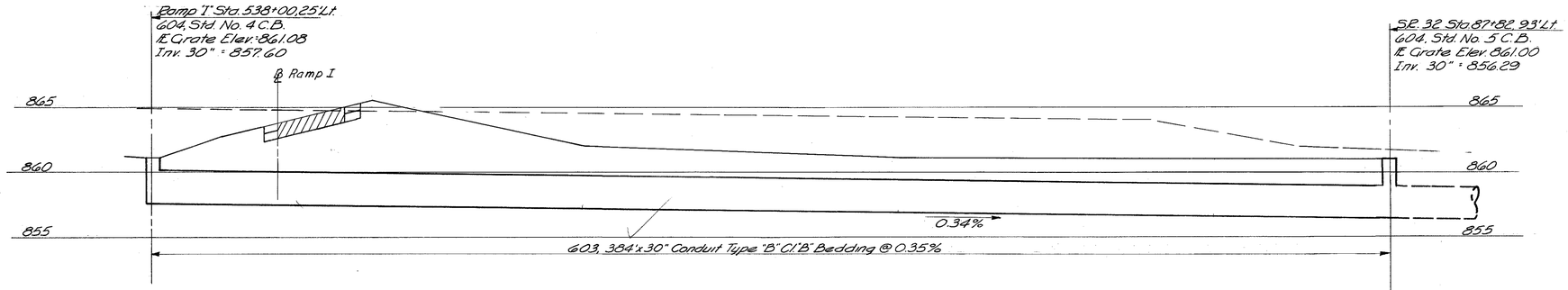
CHK'D R.J. DATE 10/12/67

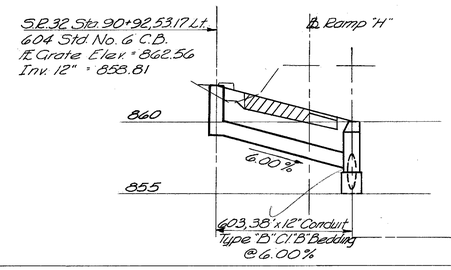
S.R. 32 INTERCHANGE
STORM SEWER DETAILS
S.R. 32 STA. 72+00 TO RAMP "G" STA. 534+74
RAMP "L" STA. 549+25 TO RAMP "K" STA. 569+70

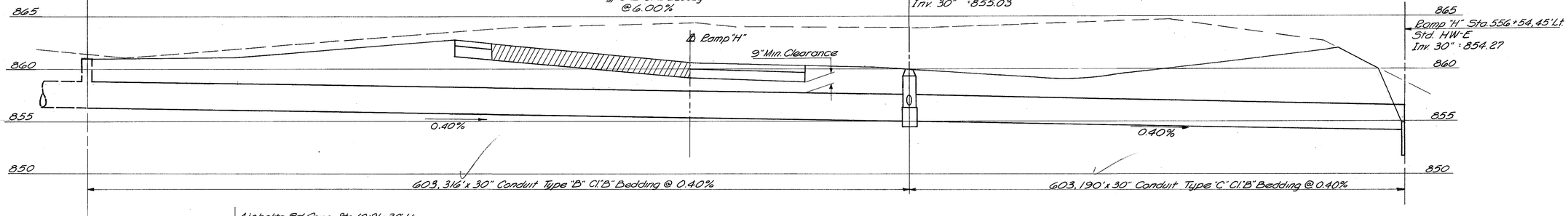
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

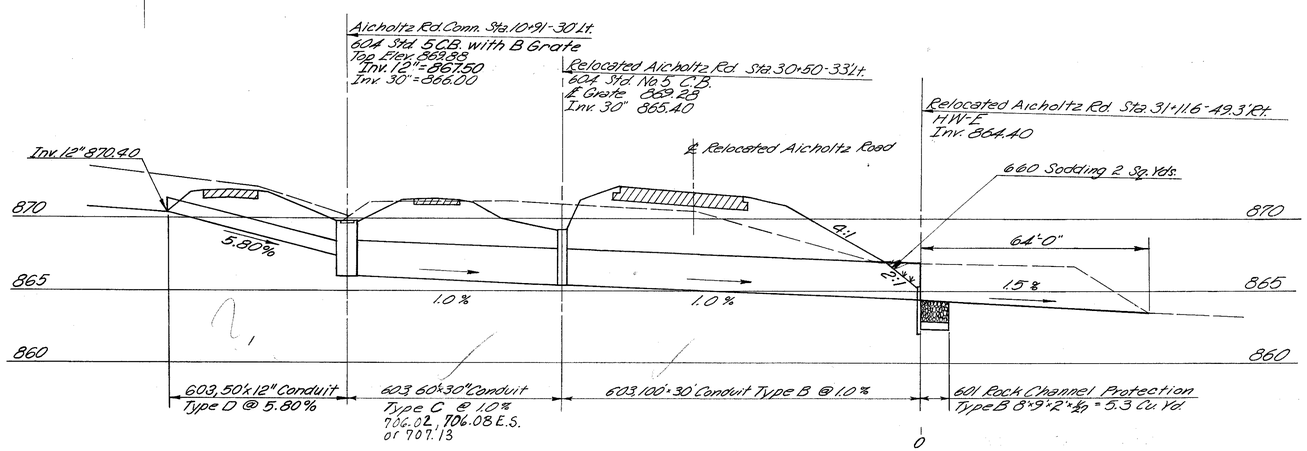
469
638

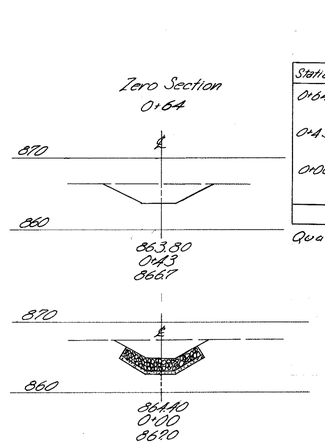
CLERMONT COUNTY
CLE.-275-G.68











Station	End Areas	Volume
0+64	0 s.f.	10 C.Y.
0+43	25 s.f.	37 C.Y.
0+00	21 s.f.	
TOTAL		47 C.Y.

Quantity Carried To Sht. No. 429

CALC. J.J.Z. DATE 2/8/67

CHK'D R.J. DATE 10/24/69

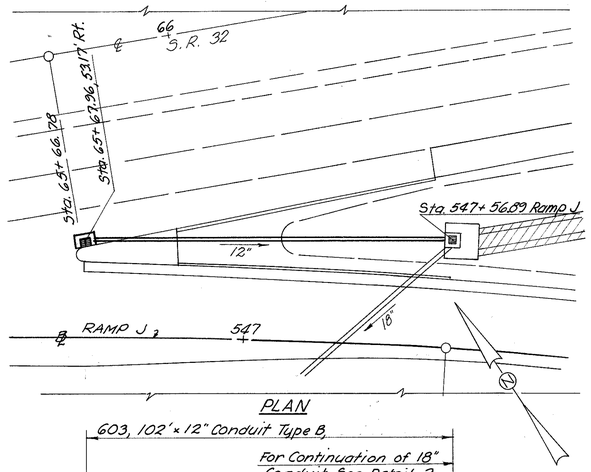
STORM SEWER DETAILS

Aicholtz Rd. Conn. Sta. 10+91 ~ Relocated Aicholtz Rd. Sta. 31+116
S.R. 32 Interchange
Ramp "I" Sta. 538+00 ~ Ramp "H" Sta. 556+54

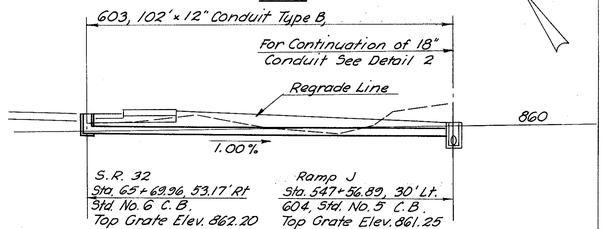
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

470
638

CLERMONT COUNTY
CLE. - 275 - 6.68

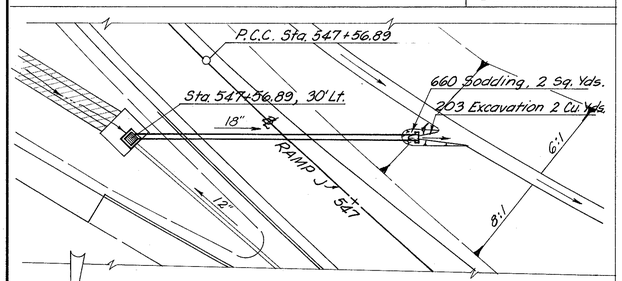


PLAN

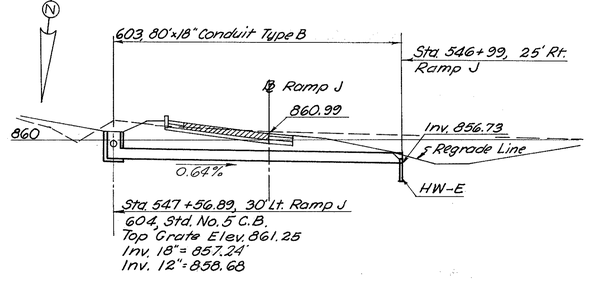


PROFILE
STA. 65+67.96 S.R. 32
STA. 547+56.89 RAMP J

Detail 1

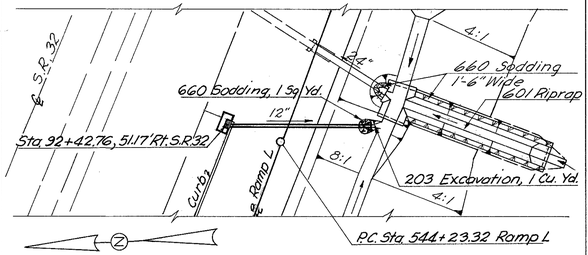


PLAN

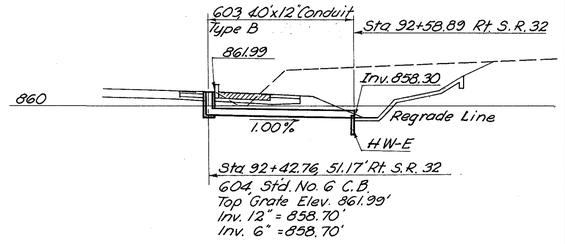


PROFILE
STA. 547+56.89 RAMP J

Detail 2

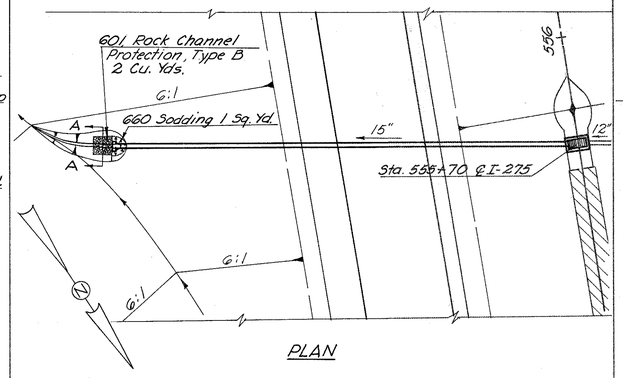


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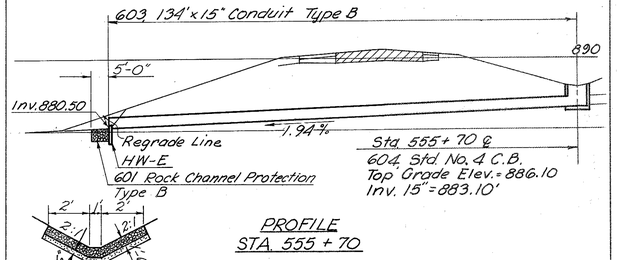


PROFILE
STA. 92+42.76 S.R. 32

Detail 3



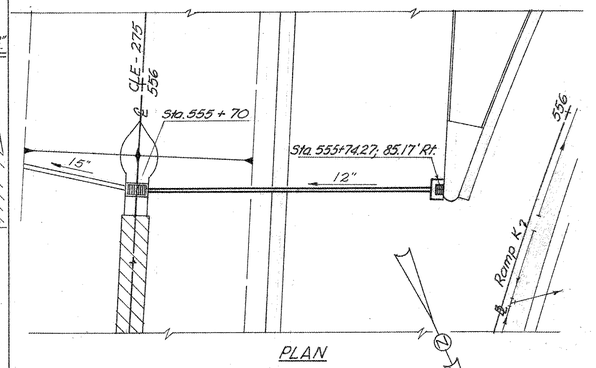
PLAN



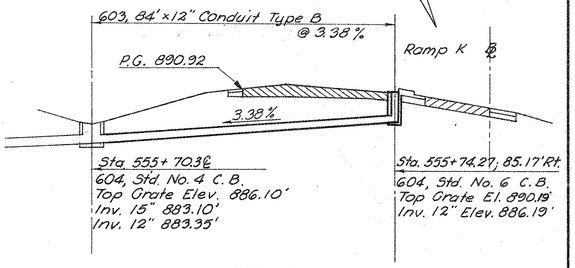
PROFILE
STA. 555+70

SECTION A-A

Detail 4

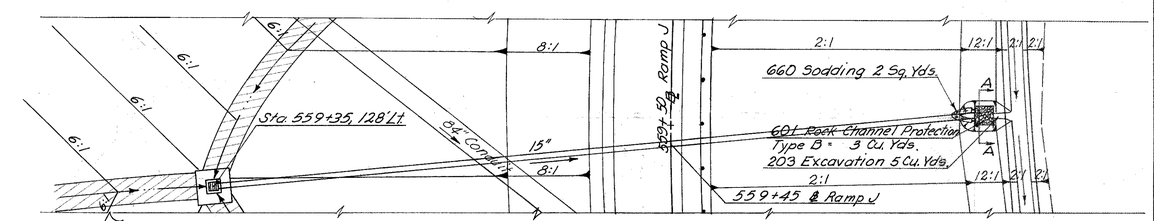


PLAN

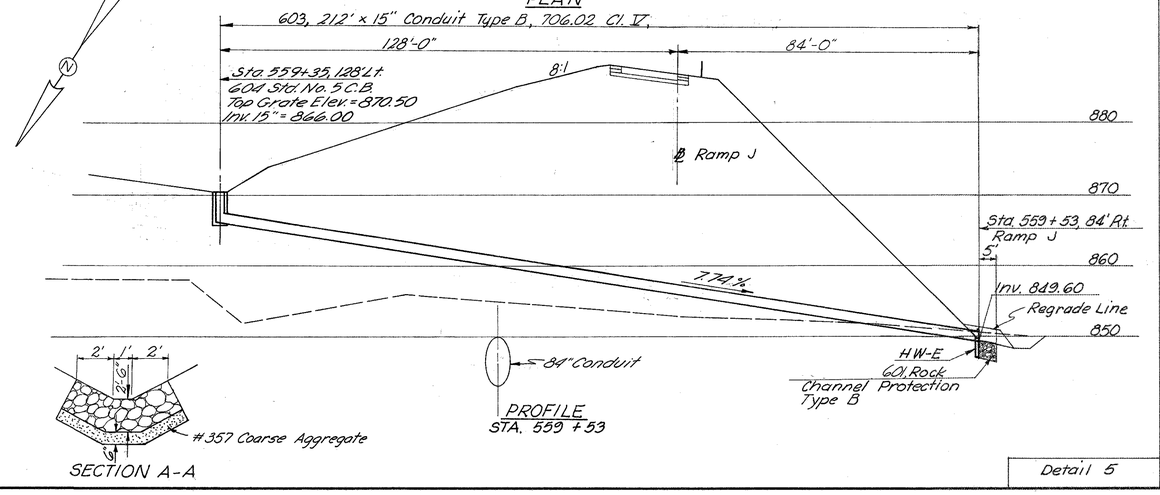


PROFILE
STA. 555+74.27

Detail 6



PLAN



PROFILE
STA. 559+53

SECTION A-A

Detail 5

CALC. J.J.Z. DATE 2/4/67

CHK'D R.J. DATE 10/23/69

ALL DETAILS

Vert. 0 10 20

Horiz. 0 20 40

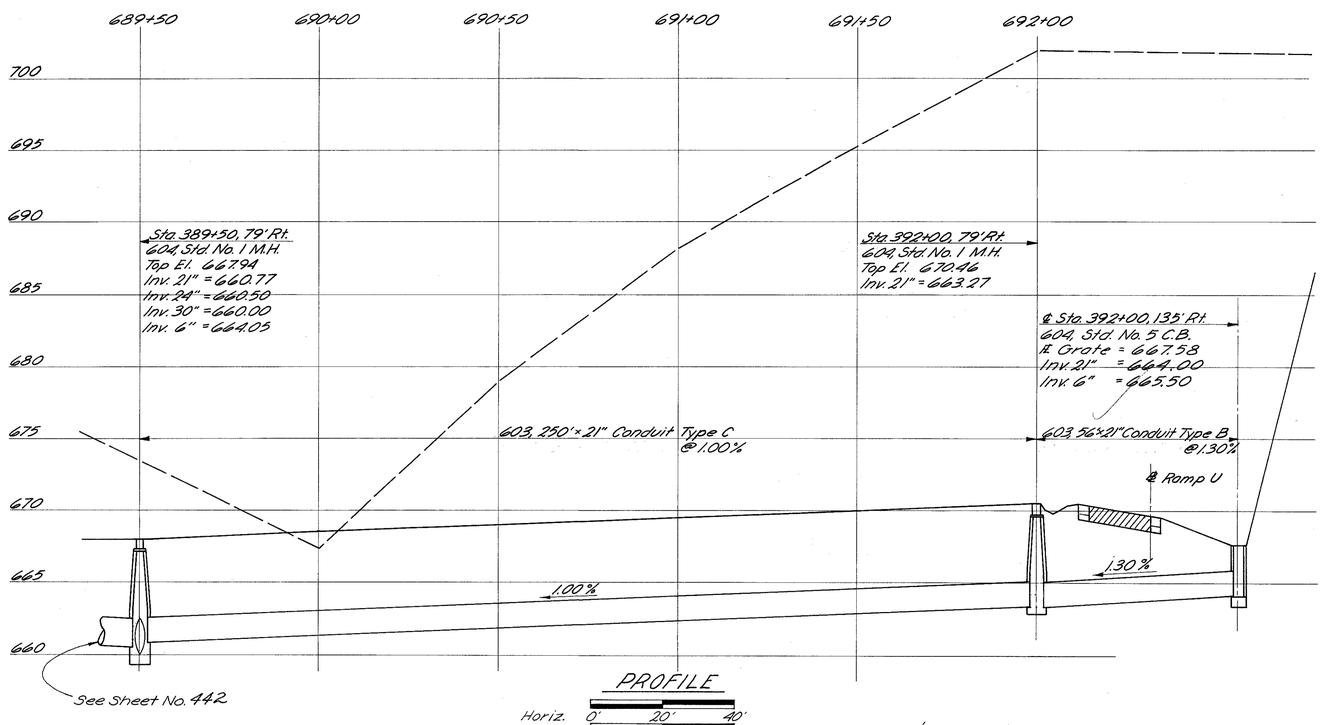
DRAINAGE STRUCTURES

STA. 65+67.96 S.R. 32 — STA. 555+74.27 MAINLINE
STA. 92+42.76 S.R. 32 — STA. 547+56.89 RAMP J
STA. 555+70 MAINLINE — STA. 559+53 RAMP J

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

471/638

CLERMONT COUNTY
CLE.-275-6.68



END AREA		VOLUME	
Cut	Fill	Cut	Fill
0	0		
		2	0
4	0		
		10	0
9	0		
Total		12	

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNIT
602	Concrete Masonry	0.30	Cu. Yd.
603	18" Conduit Type "C" Cl. "B" Bedding	156	Lin. Ft.
603	18" Conduit Type "B"	84	Lin. Ft.
604	Std. No. 2-3 Catch Basin	1	Ea.
604	Std. No. 2-2-B Catch Basin	2	Ea.
660	Sodding	2	Sq. Yd.
□203	Excavation Not Including Embankment	12	Cu. Yd.

Quantities Carried to Sheet No. 88
□Quantities Carried to Sheet No. 435

CALC. J.J.Z. DATE 2/9/67

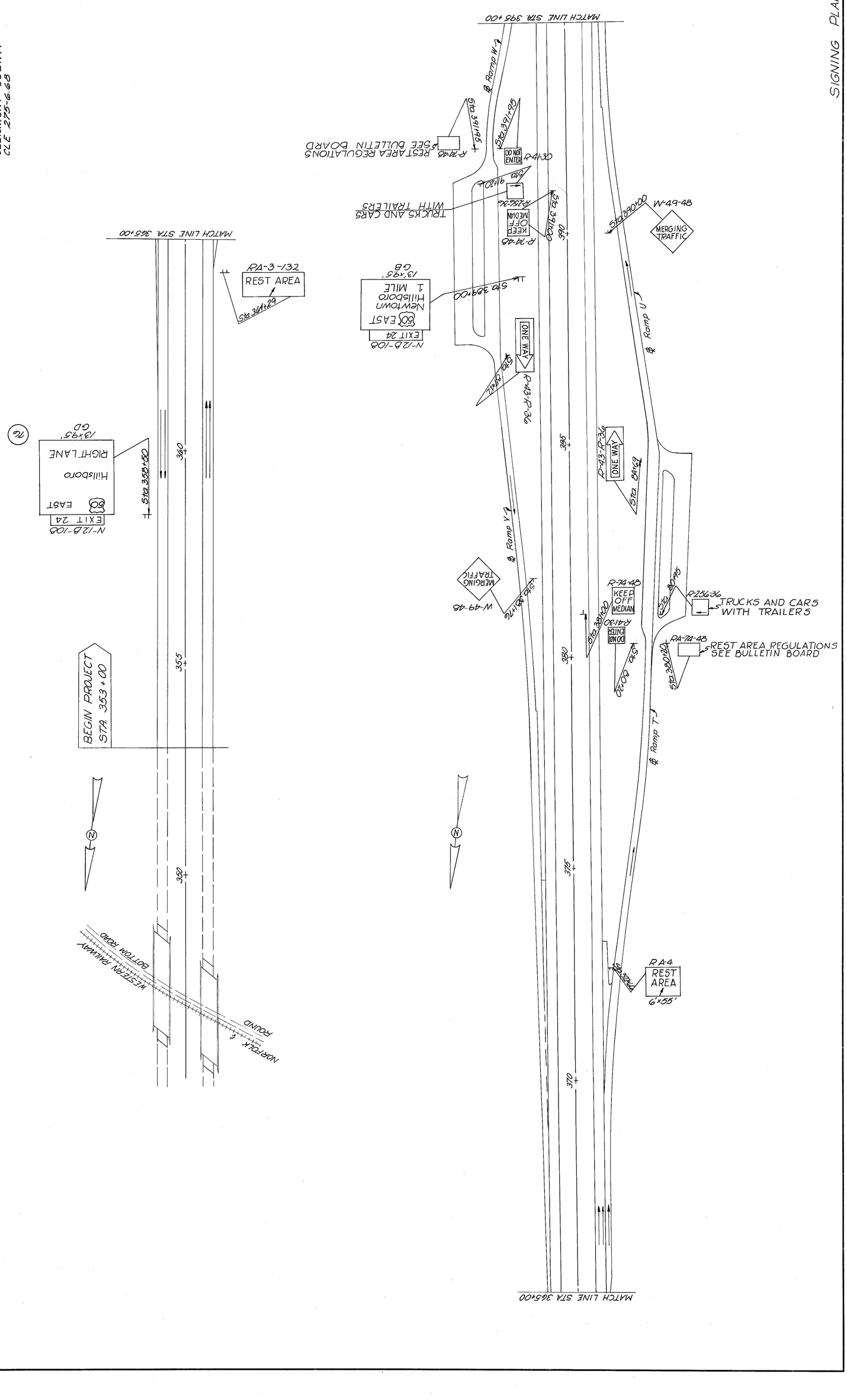
CHK'D R.J. DATE 10/24/69

DRAINAGE DETAILS
STA 8+27 AICHOLTZ ROAD
℄ STA 392+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CLERMONT COUNTY
CLE 275-6.68

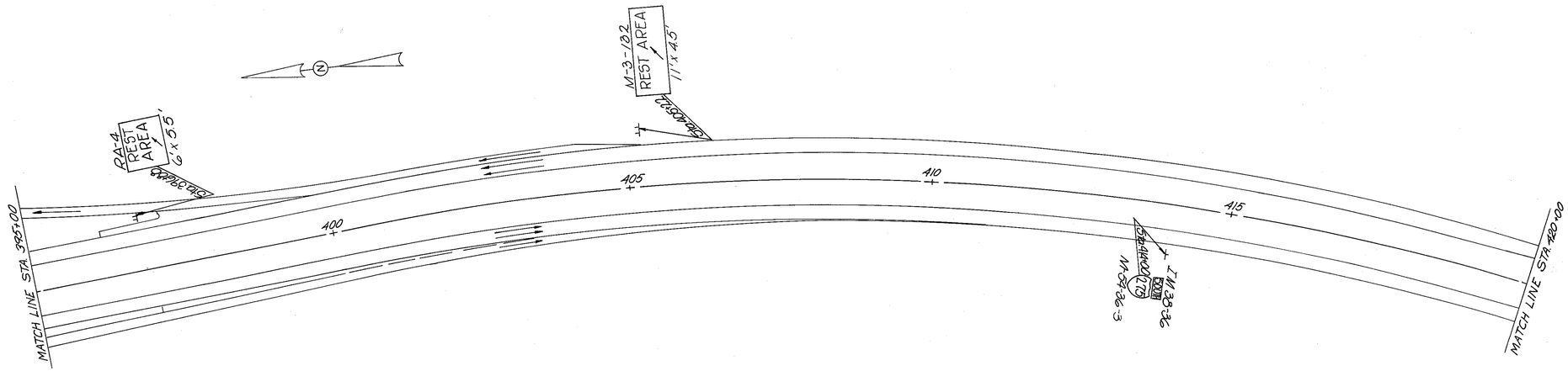
SIGNING PLAN



FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

473
G38

CLERMONT COUNTY
CLE 275-6.68



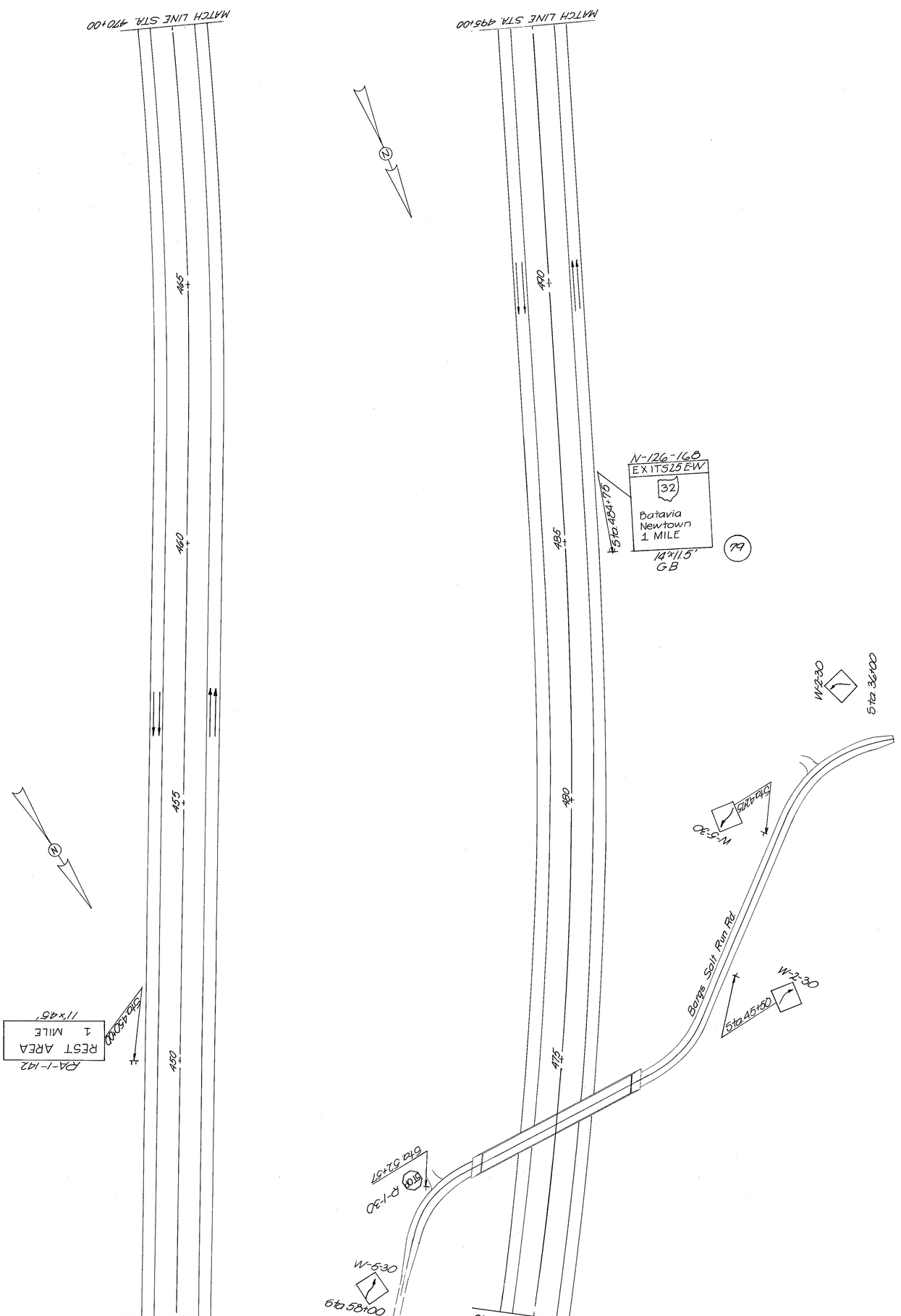
SIGNING PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CLERMONT COUNTY
CLE 275-6.68

474
638

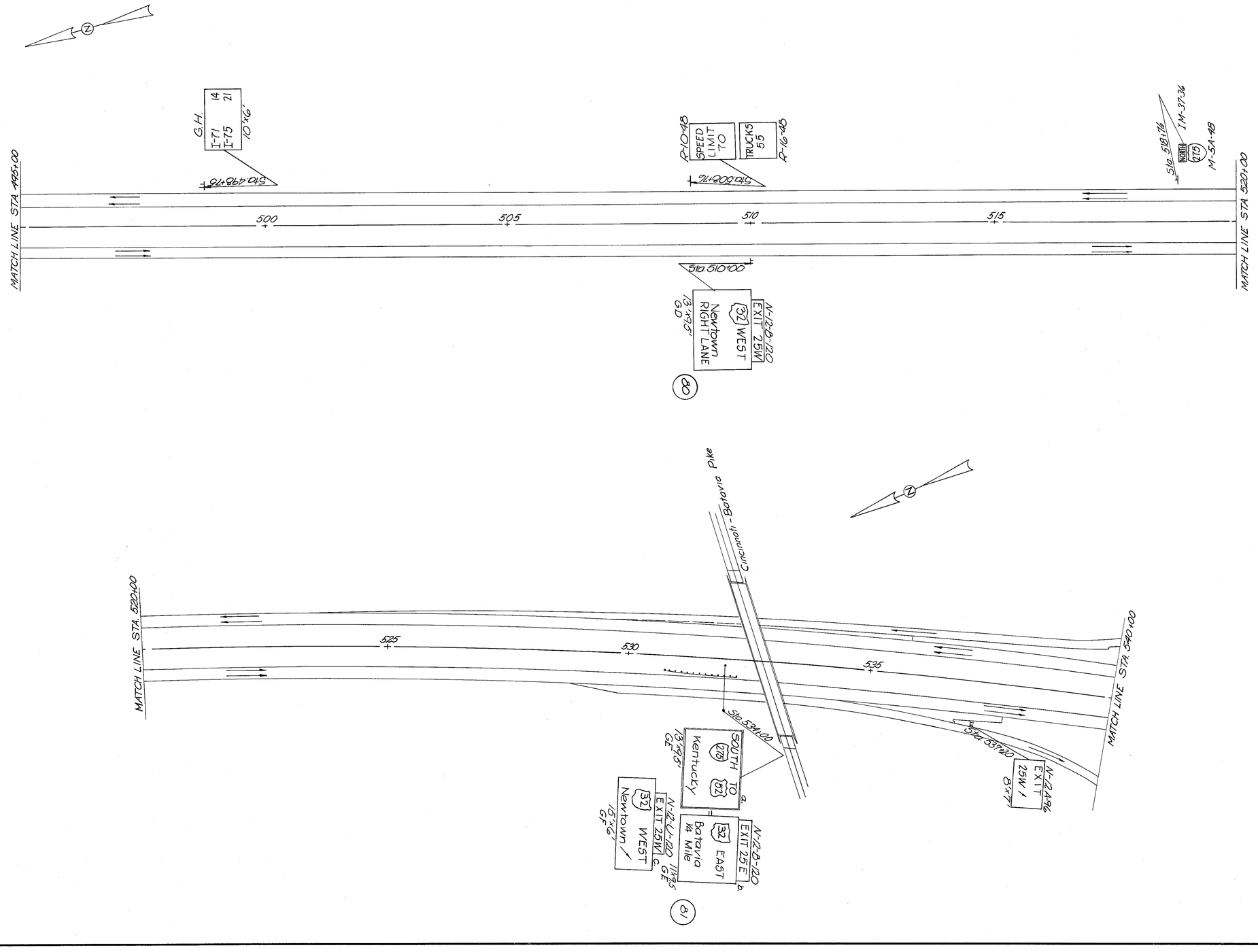
SIGNING PLAN



FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

475
638

CLERMONT COUNTY
CLE. 275 - 6.68

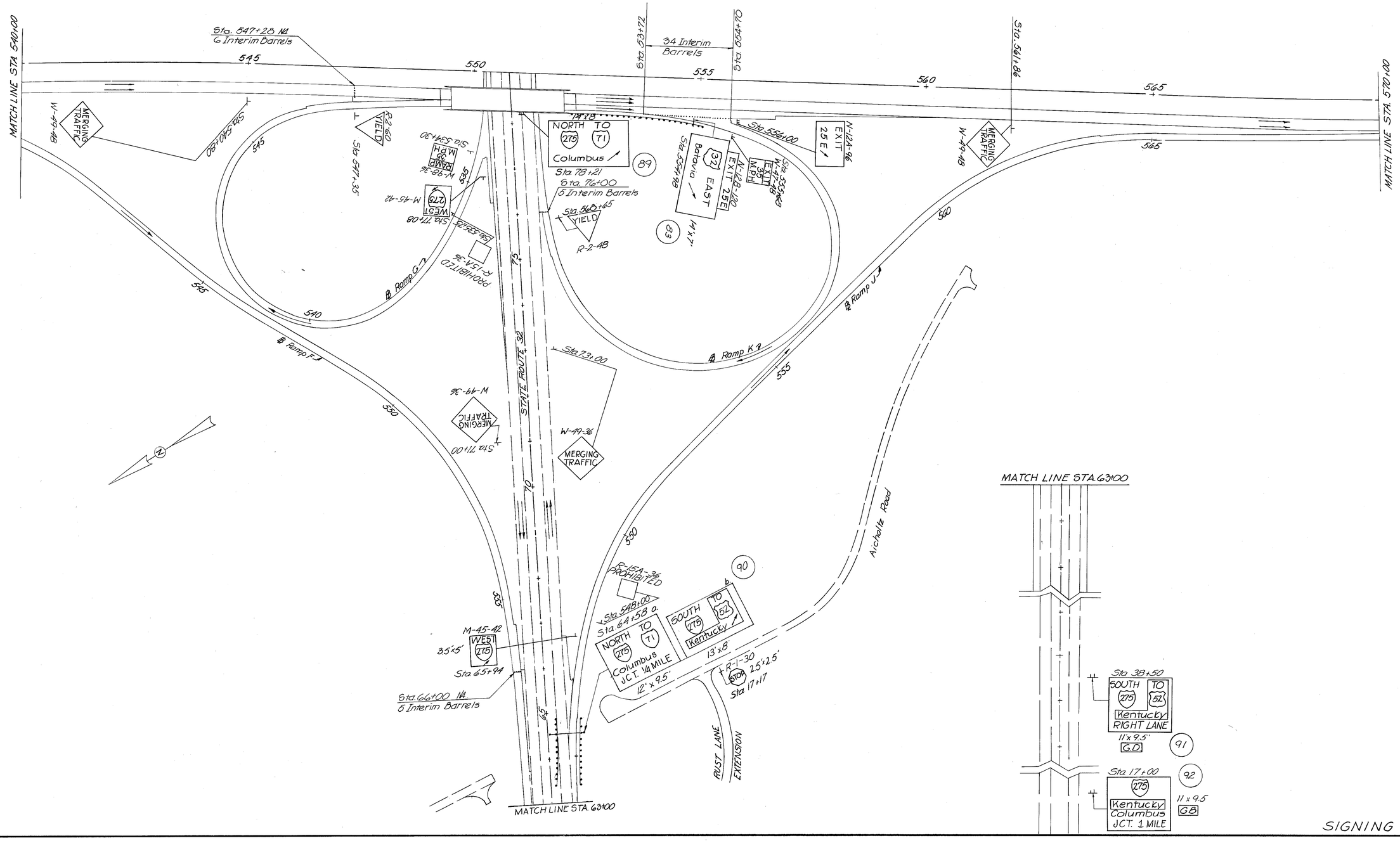


SIGNING PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

476
638

CLERMONT COUNTY
CLE.275-6.68

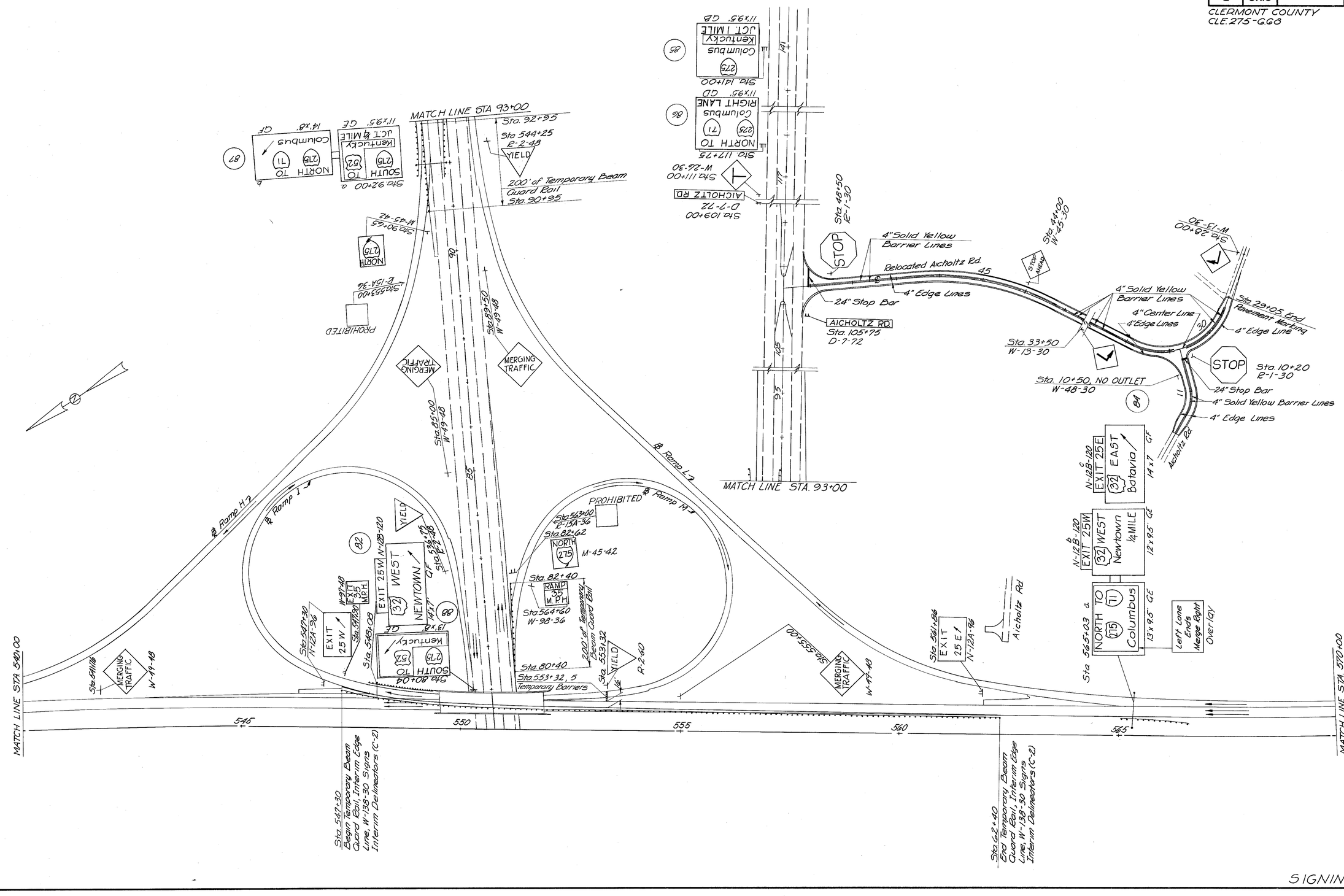


SIGNING PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

477
638

CLERMONT COUNTY
CLE 275-6.68

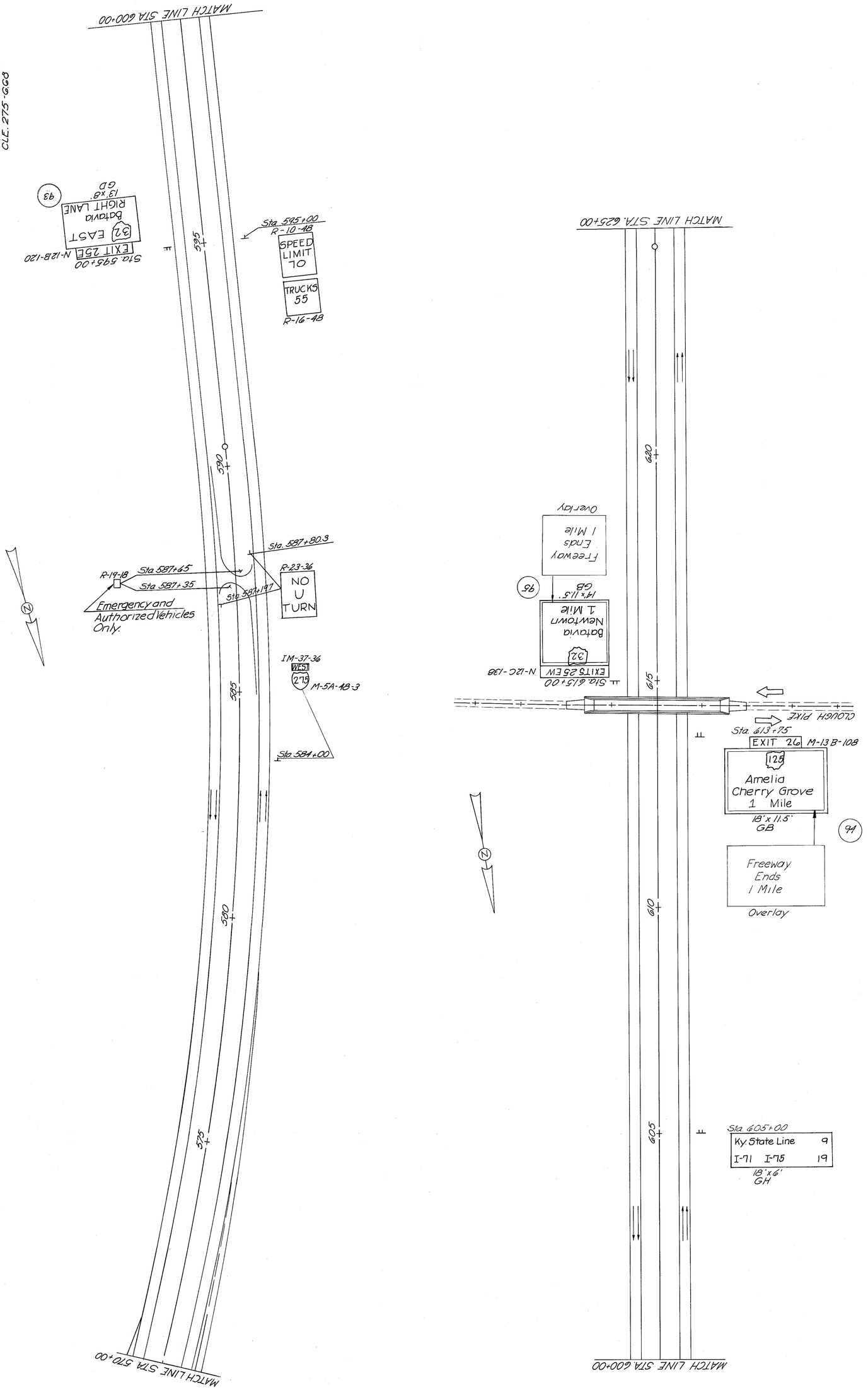


SIGNING PLAN

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

CLERMONT COUNTY
CLE-275-6.66

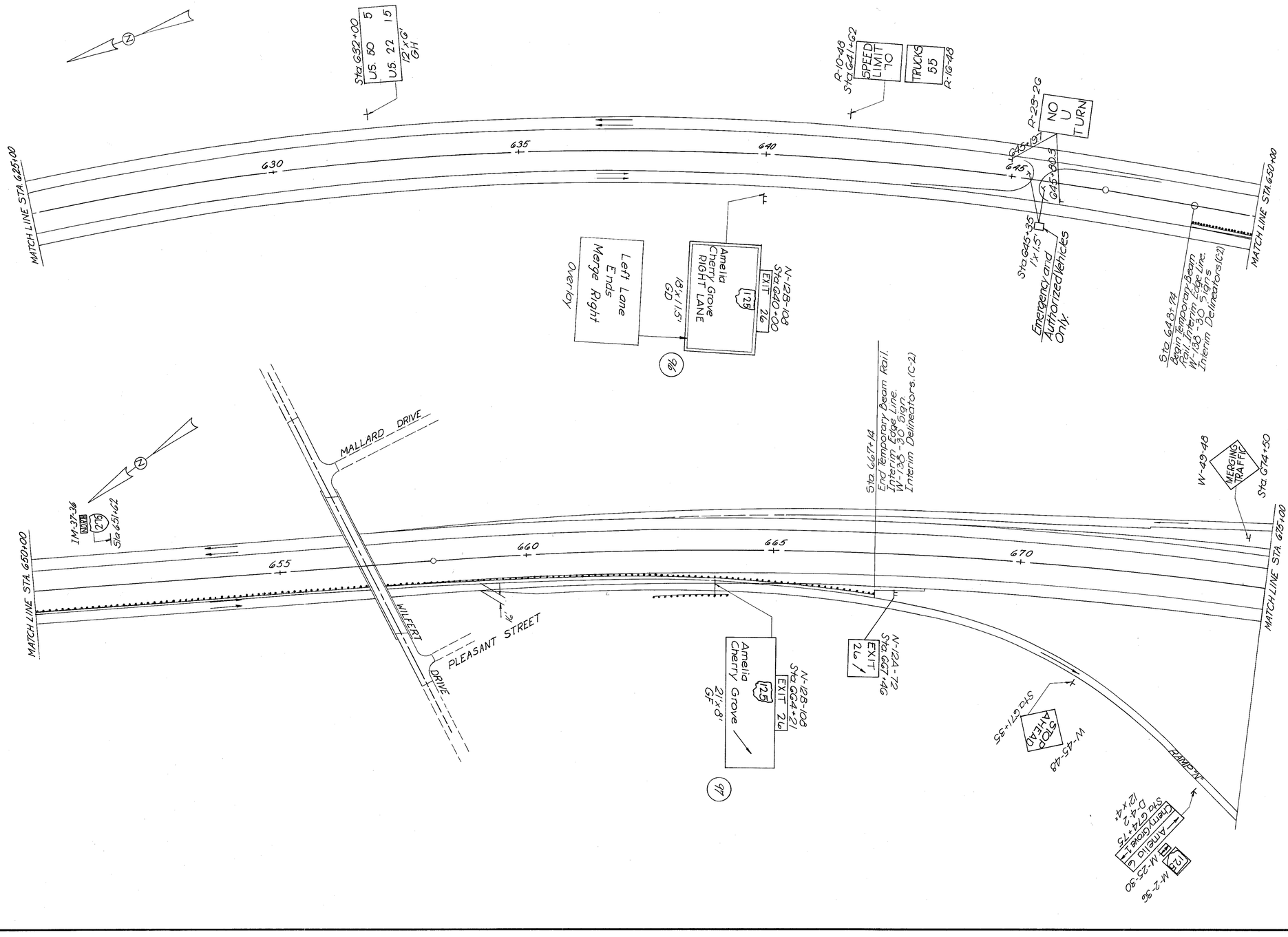
SIGNING PLAN



FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

479
638

CLERMONT COUNTY
CLE. 275-6.68

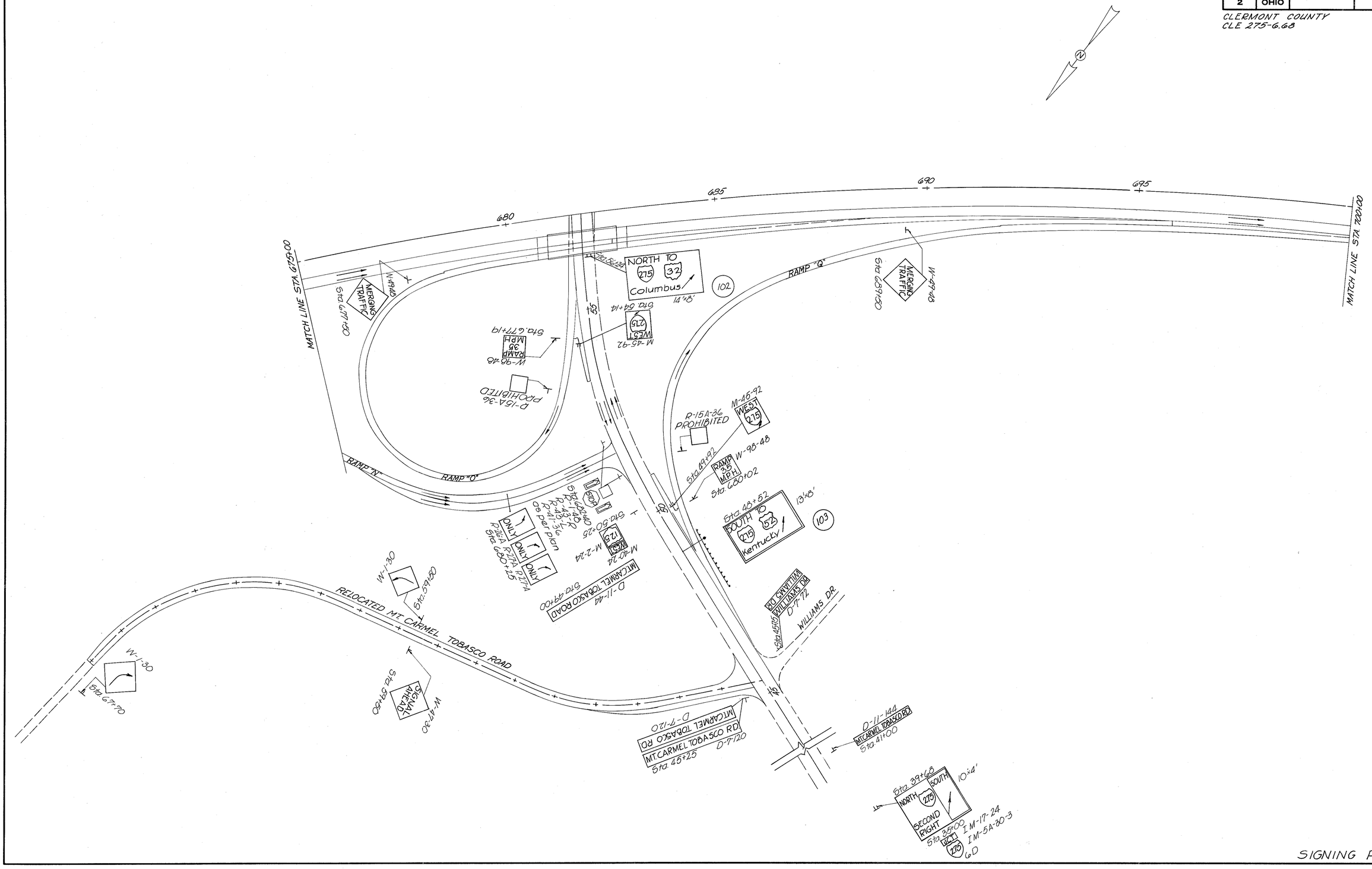


SIGNING PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

480
638

CLERMONT COUNTY
CLE 275-6.68

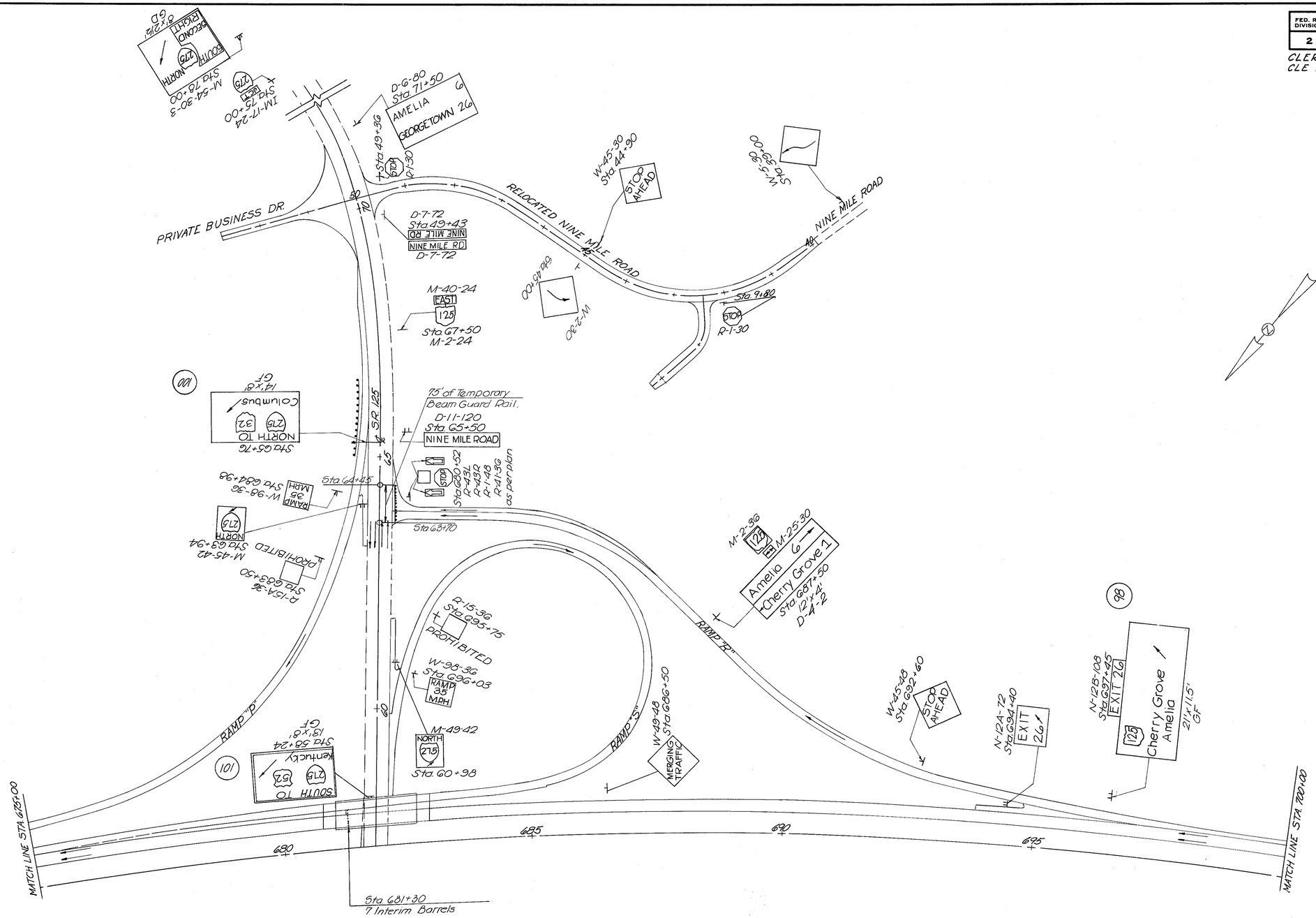


SIGNING PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

481
638

CLERMONT COUNTY
CLE 275-6.68



SIGNING PLAN

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	CLE 275-6.68

CLERMONT COUNTY

SIGNING PLAN

MATCH LINE STA 730+00

CLERMONT CO.
HAMILTON CO.

725

720

715

710

705

HOPPER HILL ROAD

Sta 722+92
SPEED LIMIT 0L
R-10-48
TRUCKS 55
R-16-48

106
18'x11.5' GD
Cherry Grove
Ameiq
RIGHT LANE
125
Sta 723+00 EXIT 2 Lg N-128-108

R-19-18 Sta 718+15
Sta 717+85
Emergency and Authorized Vehicles Only.
Sta 716+20.25
Sta 714+69.7
R-23-36
NO U TURN

Sta 712+92
WEST IM-37-36
612
M-5A-48-3

MATCH LINE STA 700+00

MATCH LINE STA 1820+00

1815

1810

1805

1800

1795

107
18'x11.5' GB
Cherry Grove
Ameiq
1 Mile
125
Sta 1811+00 EXIT 2 Lg N-128-108

Sta 1799+00
I-471 9
Lexington 100
16'x6' GH

NORDYKE ROAD

CLERMONT CO.
HAMILTON CO.

Sta 1793+08.80 Ah
ENTERING Clermont County
7'x4' GI

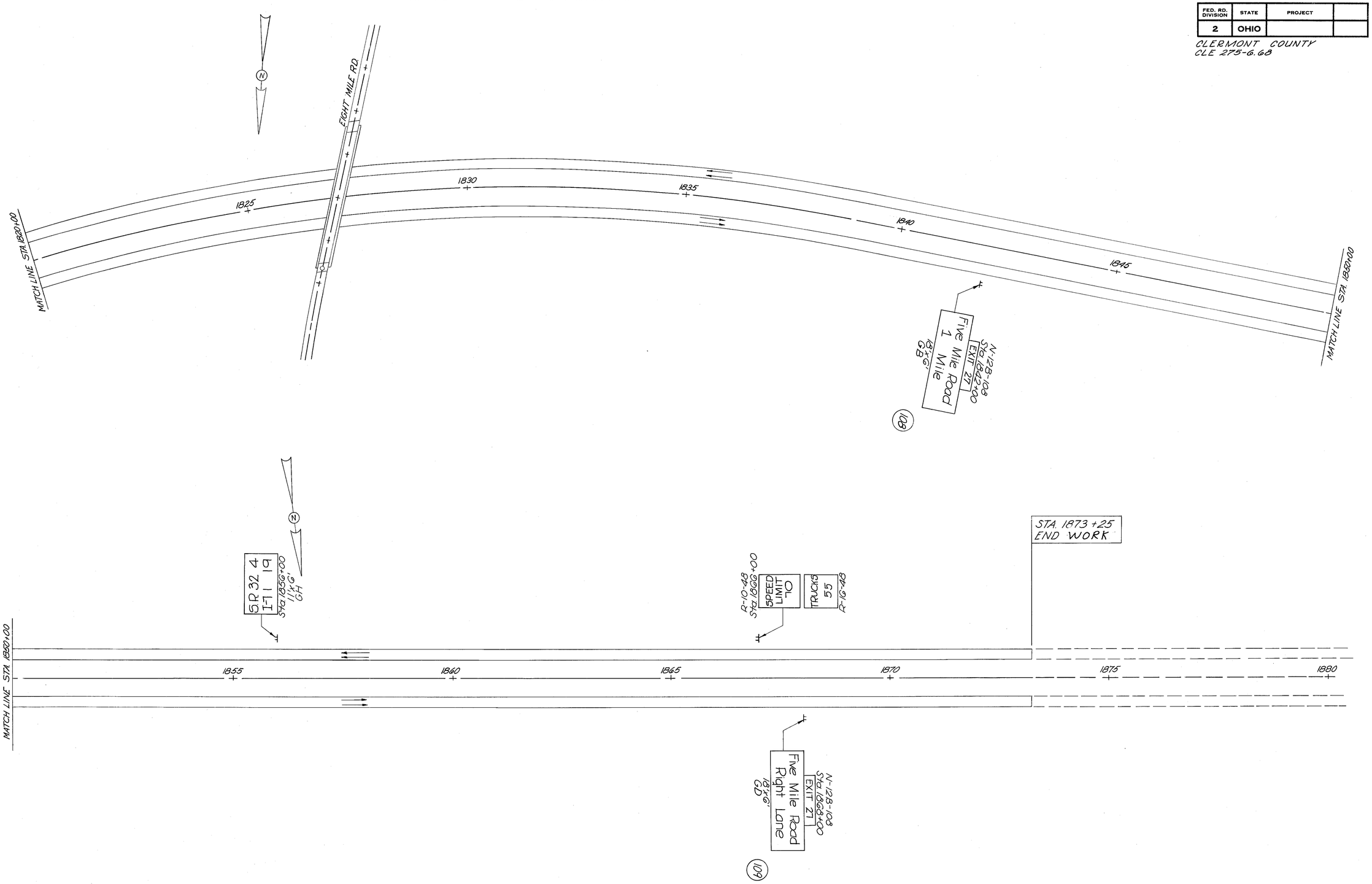
Sta 733+16.69 Bk.
ENTERING Hamilton County
7'x 1' GI

MATCH LINE STA 730+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

483
638

CLERMONT COUNTY
CLE 275-6.68



SIGNING PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

484/638

CLERMONT COUNTY
CLE. 275-6.68

CINCINNATI - BATAVIA PIKE
Sta 54+40
Sta 54+00 Begin Striping
Sta 54+55 Begin 4" Edge Line
Sta 56+00
Sta 56+42.67 Ramp "F" End 8" Solid White Channelizing Line
Sta 58+94 Begin 4" Edge Line
8" Solid White Channelizing Line
4" Edge Line
4" Lane Line
CINCINNATI BATAVIA PIKE
(CO. RD. NO. 171)
RUST LANE
51 52 53 54 55 56 57 58 59 60 61 62 63 64
℄ S.R. 32
Sta 62+40
Sta 62+00 Begin 8" Solid White Channelizing Line
4" Edge Lines
ALCHOLTZ RD.
Sta 64+80 Begin 8" Solid White Channelizing Line
24" Transverse Stripes
544 RAMP "J" 545
Sta 64+40
8" Solid White Channelizing Line
MATCH LINE STA. 65+00
Sta 64+32 ℄ Columbus JCT. 12.1×2.5
NORTH TO 275 71
SOUTH TO 275 Kentucky 152
13.1×8.1
Sta 63+00 ℄ S.R. 32
Sta 64+68 ℄ Columbus JCT. 12.1×2.5
MATCH LINE STA. 65+00
Sta 65+05
Sta 66+00 Sta 66+06
Sta 553+95
8" Solid White Channelizing Line
Sta 66+00 0.5E 32
Sta 556+42.67 Ramp "F" End 8" Solid White Channelizing Line
RAMP "F" 553 554 555 556
4" Edge Lines
Curb Painted Yellow
4" Edge Line
4" Lane Line 66 67 68 69 70 71 72 73 74 75 76 77 78 79
24" Transverse Stripes
8" Solid White Channelizing Line
Median Painted Yellow
546 547 548 RAMP "J" 549 550
Sta 65+05
Sta 66+06
W4-6-24.5 WEST 275
W4-6-24.7
Sta 71+00
MERGING TRAFFIC W-49-36
Sta 73+00
MERGING TRAFFIC W-49-36
4" Lane Line
4" Edge Line
Curb Painted Yellow
RAMP "K" 567 568 569 570 571
4" Edge Line
Sta 56+65
YIELD R-2-48
16+65.45
Sta 56+65.45
Sta 57+08 End 4" Edge Line
Begin 4" Lane Line
Sta 78+12
Columbus 14.0
NORTH TO 275 71
Sta 57+08 ℄ Ramp K 32
Sta 57+08 ℄ Ramp K 32
Sta 57+08 ℄ Ramp K 32

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

485
638

CLERMONT COUNTY
CLF. 275-6.68

MATCH LINE STA. 80+00

Sta. 80+00 S.R. 32
Sta. 549+79.88 Ramp I

529

13'x8' GE

SOUTH TO 52 / 275 Kentucky

Sta. 80+80 Begin 4" Edge Line

Sta. 82+49.73 S.R. 32
Sta. 536+30.00 Ramp I

R-2.48

YIELD

RAMP "I"

538

Sta. 538+30 Ramp I

Sta. 536+75

535 536 537

4" Edge Lines

Curb Painted Yellow

4" Lane Line

4" Edge Line

4" Edge Lines Sta. 85+00

MERGING TRAFFIC

W-4-1-48

552

RAMP "H"

333

Prohibited
R-17A-36
Sta. 553+00

Sta. 89+93

W1-45-42
NORTH 275

Sta. 90+65

Sta. 90+93

24" Transverse Stripes

334 335 336 337

Sta. 92+19

Sta. 92+00.23
SOUTH TO 52 / 275 Kentucky JCT. 4 MILE

11'x 9.5' GE

NORTH TO 71 / 275 Columbus

14'x 8' GE

Sta. 93+00.86 SR 32

4" Lane Lines 4" Edge Lines

Curb Painted Yellow

Median Painted Yellow

8" Solid White Channelizing Lines

81 82 83 84 85 86 87 88 89 90 91 92 93 94

℄ S.R. 32

4" Edge Lines 4" Lane Lines

24" Transverse Stripes

566 565 564

8" Solid White Channelizing Lines

4" Edge Lines

4" Lane Line

4" Edge Lines

Sta. 81+81

Sta. 82+63

Sta. 82+62

W-8-3B
RIGHT LANE ENDS

NORTH 127

W-1-4-5-42

Sta. 83+10.00

R-15A-36

Prohibited

MERGING TRAFFIC

W-4-1-48

Curb Painted Yellow

Sta. 89+50

547 RAMP "L" 546 545

548

4" Edge Lines

Sta. 546+84

YIELD

R-2-48

Sta. 544+23.32 Begin 8" Solid White Channelizing Line

Sta. 544+25

Sta. 92+43.94 End 8" Solid White Channelizing Line

4" Lane Lines 4" Edge Lines

MATCH LINE STA. 95+00

Sta. 80+25.46 S.R. 32
Sta. 546+77.23 Ramp M

MATCH LINE STA. 95+00

4" Lane Line

4" Edge Lines

96 97 98 99 100 101 102 103 104 105 106 107 108 109 110

℄ S.R. 32

4" Lane Line

4" Edge Lines

4" Lane Lines

4" Edge Lines

Sta. 96+04.75 End 4" Edge Line

4" Edge Lines

4" Lane Line

4" Lane Line

4" Edge Lines

Sta. 101+55 End Striping

24" Stop Bar

STOP

4" Barrier Line

4" Center Line

4" Edge Line

REL. AICHOLTZ ROAD

Sta. 106+80 Begin 8" Solid White Channelizing Line

Sta. 107+75 End 8" Solid White Channelizing Line

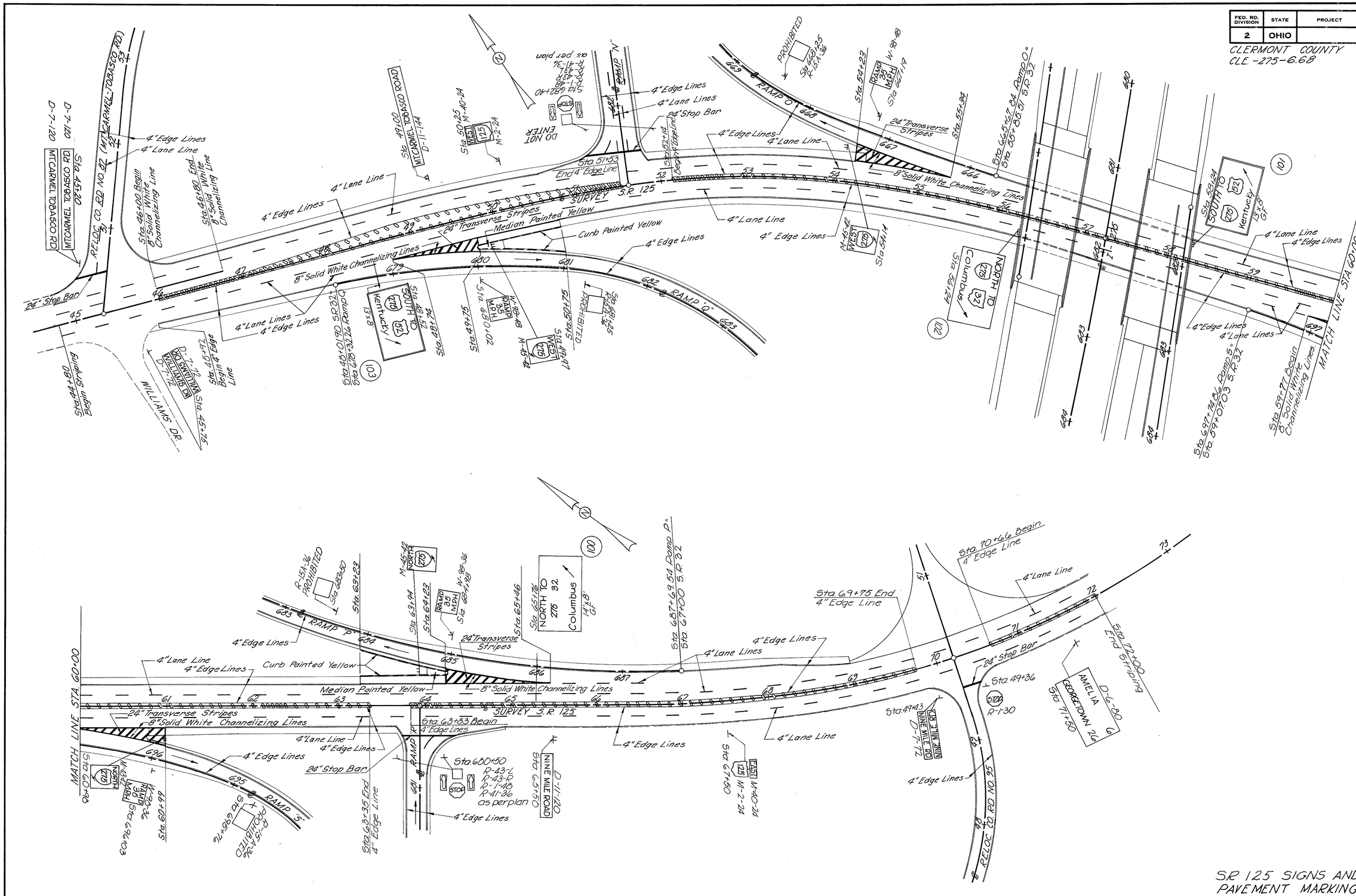
Note: For Additional Pavement Marking on Rel. Aicholtz Road See Sht. No. 477

S.R. 32 SIGNS AND PAVEMENT MARKING

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

486
638

CLERMONT COUNTY
CLE.-275-6.68


D-7-120
MT CARMEL TOBASCO RD
Sta 45+80
RELOC. CO. RD NO. 92 (MT CARMEL-TOBASCO RD.)
24" Stop Bar
4" Edge Lines
4" Lane Line
Sta 46+00 Begin 8" Solid White Channelizing Line
Sta 44+80 End 8" Solid White Channelizing Line
WILLIAMS DR.
Sta 45+76 Begin 4" Edge Line
D-7-120 WILLIAMS DR
Sta 45+76
Sta 48+00 Begin Stripes
4" Lane Lines
4" Edge Lines
8" Solid White Channelizing Lines
24" Transverse Stripes
Median Painted Yellow
Curb Painted Yellow
SURVEY S.R. 125
Sta 48+01.40 SR 321 Ramp D
Sta 48+32.26
SOUTH TO 275 Kentucky 13'x8'
Sta 48+48
Sta 49+25
M-98-48 RAMP 35 MPH Sta 49+02
Sta 49+45
Sta 50+25 PROHIBITED
Sta 48+69.58
WEST 275
Sta 49+97
Sta 50+25
M-40-24 M-2-24 125
WITCH
Sta 49+00 MT CARMEL TOBASCO ROAD D-11-144
DO NOT ENTER
as per plan
RAMP "N"
Sta 50+80 as per plan
Sta 51+53 End 4" Edge Line
Sta 52+14 Begin 4" Edge Line
RAMP "O"
PROHIBITED R-15A-36 Sta 52+89.80
Sta 53+23
RAMP 35 MPH Sta 54+19
W-98-48
Sta 54+44
24" Transverse Stripes
8" Solid White Channelizing Lines
Sta 54+67 & Ramp O= Sta 85+85 of S.R. 32
Sta 54+14
Sta 54+11
M-65-42 WEST 275
Sta 54+11
Sta 54+23
NORTH TO 275 32 Columbus
Sta 54+28
Sta 54+44
Sta 55+44
Sta 56+15
Sta 56+38
Sta 56+68
Sta 56+83
Sta 57+03
Sta 57+23
Sta 57+43
Sta 57+63
Sta 57+83
Sta 58+03
Sta 58+23
Sta 58+43
Sta 58+63
Sta 58+83
Sta 59+03
Sta 59+24
SOUTH TO 275 Kentucky 13'x8' GF
Sta 59+44
4" Lane Line
4" Edge Lines
Sta 59+77 Begin 8" Solid White Channelizing Lines
Sta 59+77.14 Ramp S= Sta 59+07.03 S.R. 32
MATCH LINE STA 60+00
Sta 60+00
Sta 60+21
NORTH TO 275 32 Columbus
Sta 60+43
Sta 60+63
Sta 60+83
Sta 61+03
Sta 61+23
Sta 61+43
Sta 61+63
Sta 61+83
Sta 62+03
Sta 62+23
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Sta 67+26
Sta 67+46
Sta 67+66
Sta 67+86
Sta 68+06
Sta 68+26
Sta 68+46
Sta 68+66
Sta 68+86
Sta 69+06
Sta 69+26
Sta

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

48GA G38

CLERMONT COUNTY
CLE. 275- 6.68

TRAFFIC CONTROL GENERAL SUMMARY

FROM SHEET NO.								TOTAL CLE.	TOTAL HAM.	GRAND TOTAL		UNIT	ITEM	DESCRIPTION	Code 6302	Code Y021
516	512	513	514	515	495	490	491									
														OVERHEAD SIGN SUPPORT		
					1			1		1		Each	816	Overhead Sign Support No. 7.4 Design 1 (Span 66'-0")	1	
					2			2		2		Each	816	Overhead Sign Support No. 7.4 Design 1 (Span 70'-0")	2	
					4			4		4		Each	816	Overhead Sign Support No. 12.24 Design 6 26'-0" Arms	4	
					2			2		2		Each	816	Overhead Sign Support No. 12.24 Design 8 28'-0" Arms	2	
					1			1		1		Each	816	Overhead Sign Support Design Monolever	1	
					4			4		4		Each	816	Overpass Structure Mounted Sign Support	4	
					1			1		1		Each	816	Overhead Sign Support No. 7.5 Design 1 (Span 70'-0")	1	
														STRUCTURAL SUPPORT		
						782	741	1,523		1,523		L.F.	816	Steel Drive Post 4 Lbs. per Foot	1523	
						853	261	1,151	36	1,114		L.F.	816	Structural Support, 6 Lb. Beam	1114	
						180	166	346		346		L.F.	816	Structural Support, 8 Lb. Beam	346	
						687		512	175	687		L.F.	816	Structural Support, 10 WF 21	687	
						436		344	92	436		L.F.	816	Structural Support, 12 WF 31	436	
1953								195		195		L.F.	816	Interim Steel Drive Post 4 Lbs. per Foot	195	
						32		26	6	32		Each	816	Breakway Sign Support Connection	32	
														FOUNDATION CONCRETE		
					64.3			64.3		64.3		C.Y.	816	Concrete for Overhead Sign Support Foundations	64.3	
						79.8	9.1	68.2	14.7	82.9		C.Y.	816	Concrete for Ground Mounted Sign Support Foundations	82.9	
														SIGN ERECTION		
					66	928	638	1,596	36	1,632		S.F.	815	Sign Erection, Flat-Sheet Type	1632	
					2743	3477	196	5,795	621	6,416		S.F.	815	Sign Erection, Extru.-Sheet Type	6416	
					546	694		1,240		1,240		S.F.	815	Sign Erection, Interim Flat-Sheet Overlay Type	1240	
										1,000		S.F.	815	Interim Covering for Signs	1000	
1323								132		132		S.F.	815	Interim Erection, Flat-Sheet Type	132	
														BALLAST		
					3			3		3		Each	625	Sign Ballast Type A	3	
					4			4		4		Each	625	Sign Ballast Type C	4	
					18			18		18		Each	625	Sign Ballast Type D	18	
														FIXTURE & LAMP		
					3			3		3		Each	625	51" Fixture with HO Lamp	3	
					38			38		38		Each	625	72" Fixture with SHO Lamp	38	
					2			2		2		Each	625	96" Fixture with SHO Lamp	2	
														TRANSFORMER		
					9			9		9		Each	625	Transformer Type III	9	
					3			3		3		Each	625	Transformer Type IV	3	
					2			2		2		Each	625	Transformer Type V	2	
					1			1		1		Each	625	Transformer Type VI	1	
					21			21		21		Each	625	Sign Wiring Complete	21	
					4			4		4		Each	625	Structure Mounted Sign Wiring Complete	4	
					11			11		11		Each	625	Sign Service	11	
					4			4		4		Each	625	Structure Mounted Sign Service Complete	4	
														SWITCH		
					9			9		9		Each	625	30 Ampere Fusible Disconnect Switch with Type "Y" Enclosure	9	
					6			6		6		Each	625	30 Ampere Fusible Disconnect Switch with Type "Z" Enclosure	6	
					8			8		8		Each	G25	Enclosure Mounting Bracket	8	
					11			11		11		Each	625	Ground Rod	11	
														GUARD RAIL		
G2								G2		G2		Each	606	Interim Barrels as per Plan	62	
														PAVEMENT MARKINGS		
	6.54							5.40	1.14	6.54		Mi.	621	6" Lane Line	6.54	
	1.17	0.15	0.09					2.01		2.01		Mi.	621	4" Lane Line	1.98	0.03
	40.42	9.16	1.75					45.26	6.07	51.33		Mi.	621	4" Edge Line	49.92	1.41
	2498	3,109	1095					5,684		5,684		L.F.	621	Curb Marking	5684	
	1278	342						1,107		1,107		S.F.	621	Island Marking	1107	
	7,057	1792	240					8,666		8,666		L.F.	621	8" Channelizing Line	8666	
	3,304	710						4,014		4,014		L.F.	621	Broad Traverse Stripes	4014	
		71	43					280		280		L.F.	621	24" Stop Bar	280	
	3,000	5537	3316					8536		8,536		L.F.	621	Barrier Line	8536	
0.58								0.58		0.58		Mi.	621	Interim Pavement Marking, 4" Edge Line as per Plan	0.58	
								3,316		3,316		L.F.	621	Parking Lot Stall Markings		3316
														DELINEATORS		
				393				314	79	393		Each	620	Delineator, Type A-1 Post Mounted	393	
				726				726		726		Each	620	Delineator, Type C-2 Post Mounted	645	81
				3				1	2	3		Each	620	Delineator, Type A-1 Bracket Mounted	3	
				11				11		11		Each	620	Delineator, Type C-2 Bracket Mounted	11	
20								20		20		Each	620	Interim Delineator as per Plan	20	

Calc. J.R. 12/15/69
Ckd. A.B. 12/20/69

TRAFFIC CONTROL GENERAL SUMMARY

GENERAL NOTES

816 CONCRETE FOUNDATIONS, FOR SIGN SUPPORTS

PAYMENT FOR THIS ITEM SHALL BE BASED ON PLAN DIMENSIONS (OR DIMENSIONS AS MODIFIED BY THE ENGINEER IN LIEU OF PLAN QUANTITIES) AS REQUIRED IN SUPPLEMENTAL SPECIFICATION 816.

PAYMENT FOR REINFORCING STEEL AND INSTALLATION ONLY OF CONDUIT ELLS SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATIONS FOR OVERHEAD SIGN SUPPORTS. CONCRETE SHALL BE CLASS "C".

BASIS OF PAYMENT SHALL BE AS FOLLOWS:

1. CONCRETE FOR OVERHEAD SIGN SUPPORT FOUNDATIONS, PER CUBIC YARD.
2. CONCRETE FOR GROUND MOUNTED SIGN SUPPORT FOUNDATIONS, PER CUBIC YARD.

815 SIGN ERECTION, BY TYPE

THE CONTRACTOR SHALL ERECT SIGN PANELS AS INDICATED ON THE SCHEMATIC SIGNING LAYOUT SHEET NUMBER 472-486. THE PANELS WILL BE FURNISHED BY OTHERS AND SHALL BE MOUNTED ON THE BRACKETS OR BEAM SUPPORTS PROVIDED IN THE PLANS.

ALL SIGN MATERIAL AND ACCESSORIES WILL BE FURNISHED AND TRANSPORTED BY OTHERS TO A DELIVERY POINT DESIGNATED BY THE CONTRACTOR ON OR NEAR THE SUBJECT PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE HANDLING, PROTECTION, AND STORAGE OF THE SIGN PANELS AND ACCESSORIES FROM THE TIME OF UNLOADING BY OTHERS AT THE DELIVERY POINT.

WORK SHALL INCLUDE ASSEMBLY OF SIGN PANELS AND ATTACHMENT OF OVERLAYS IN CONFORMANCE WITH THE SCHEMATIC SIGNING LAYOUTS.

THE CONTRACTOR SHALL SUBMIT, IN THREE COPIES, A SCHEDULE FOR SIGN ERECTION TO THE ENGINEER AT LEAST 120 CALENDAR DAYS PRIOR TO THE START OF ANY SCHEDULED ERECTION WORK. THE SCHEDULE SHALL INCLUDE PROPOSED DATES, SIGN NUMBERS, AND DELIVERY POINT. THE ENGINEER WILL FURNISH COPIES OF THE SCHEDULE TO THE DIVISION TRAFFIC ENGINEER AND TO THE ENGINEER OF TRAFFIC, 450 EAST TOWN STREET, COLUMBUS, OHIO.

THE PRICE BID PER SQUARE FOOT FOR "ITEM 815, SIGN ERECTION, BY TYPE", SHALL INCLUDE PAYMENT FOR ALL NECESSARY EQUIPMENT, LABOR, AND TOOLS TO STORE, ASSEMBLE, AND ERECT THE SIGNS AS SPECIFIED.

816 ROCK EXCAVATION

WHERE SOLID ROCK IS ENCOUNTERED IN EXCAVATION FOR SIGN SUPPORT FOUNDATIONS, THE DEPTH TO BE EXCAVATED BELOW ROCK SURFACE MAY BE DECREASED AS DIRECTED BY THE ENGINEER TO A MAXIMUM OF THIRTY-FIVE (35) PERCENT OF DEPTH SPECIFIED IN THE PLANS.

EXISTING SIGNS

EXISTING SIGNS LOCATED WITHIN THE ROADWORK AREAS WHICH ARE NECESSARY FOR INTERIM OR PERMANENT TRAFFIC CONTROL SHALL BE REMOVED AND RE-ERECTED IN LOCATIONS INDICATED BY THE PLANS OR AS APPROVED BY THE ENGINEER. STOP SIGNS WILL BE MAINTAINED AT ALL TIMES WHILE TRAFFIC IS MAINTAINED. THE COST OF REMOVAL, RE-ERECTION AND SUBSEQUENT REMOVAL IF REQUIRED SHALL BE CONSIDERED A SUBSIDIARY WORK ITEM, THE COST OF WHICH SHALL BE INCLUDED IN THE PRICE BID FOR THE ROADWAY WORK ITEMS. THE SIGNS WHICH ARE TO BE RE-ERECTED ON THE BERMS SHALL BE LOCATED WITH THE CENTER LINE OF SUPPORT ON THE P. I. OF THE SHOULDER.

SIGN LOCATIONS

ALL SIGNS SHALL BE PLACED NORMAL TO THE ROADWAY ON WHICH THEY ARE STATIONED UNLESS OTHERWISE NOTED ON THE PLANS.

816 STRUCTURAL SUPPORTS, STEEL BEAM (TYPE)

THE STRUCTURAL STEEL BEAM SUPPORTS INCLUDING 8 AND 6 POUND BEAMS, 4 POUND DRIVE POST AND HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-123 AND A-153 RESPECTIVELY.

QUANTITIES FOR ITEM 816 "STRUCTURAL SUPPORTS, STEEL BEAM (TYPE)", APPEARING IN THE QUANTITY TABLES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT SUPPORT LENGTHS PRIOR TO FABRICATION AND GALVANIZING OF SUPPORTS. PAYMENT SHALL BE AT THE CONTRACT UNIT PRICE BID PER LIN. FT. WHICH PRICE AND PAYMENT SHALL INCLUDE ALL COSTS IN CONNECTION WITH THE EMBEDMENT OF THE SUPPORTS.

THE COST OF THE CONCRETE USED FOR EMBEDMENT WILL BE A SEPARATE PAY ITEM.

816 BREAKAWAY SIGN SUPPORT CONNECTION

THIS ITEM CONSISTS OF CUTTING AND DRILLING THE STRUCTURAL SUPPORT; FURNISHING AND ATTACHING THE FUSE PLATE, AND FURNISHING AND ATTACHING THE BASE PLATES FOR EACH STRUCTURAL SIGN SUPPORT AS INDICATED ON THE PLANS.

ALL MATERIALS, LABOR AND EQUIPMENT REQUIRED TO FABRICATE AND INSTALL THIS ITEM FOR EACH SIGN SUPPORT (EXCLUSIVE OF THE STRUCTURAL SIGN SUPPORT) WILL BE MEASURED AND PAID FOR AT THE UNIT PRICE BID FOR ITEM 816 EACH BREAKAWAY SIGN SUPPORT CONNECTION.

816 OVERHEAD SIGN SUPPORT, BY TYPE

ALL COMPONENT PARTS OF THE OVERHEAD SIGN SUPPORTS SHALL BE STEEL, EXCEPT FOR THE TRUSS AND COMPONENTS FOR THE NUMBER 7 SERIES WHICH SHALL BE ALUMINUM. FOR SPECIFIC DETAILS AND MATERIALS, SEE SHEET NUMBERS 496 THROUGH 498.

COST OF FURNISHING AND INSTALLING THE SIGN BRACKETS AND THE FIXTURE SUPPORT ARM, LENGTH "G", WITH MOUNTING HOLES AND HARDWARE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR OVERHEAD SIGN SUPPORTS.

MODIFYING SUPPLEMENTAL SPECIFICATION 816 SWITCH ENCLOSURE MOUNTING BRACKETS INCLUDING MOUNTING BOLTS AND DRILLED HOLES SHALL BE FURNISHED AND INSTALLED UNDER PAYMENT FOR 816 OVERHEAD SIGN SUPPORT STRUCTURES AT THE CONTRACT PRICE PER OVERHEAD SIGN SUPPORT, BY TYPE.

PAYMENT FOR THIS ITEM SHALL BE MADE AT THE CONTRACT UNIT PRICE BID FOR EACH OVERHEAD SIGN SUPPORT, BY TYPE, INSTALLED IN PLACE AND ACCEPTED, WHICH PRICE SHALL BE FULL COMPENSATION FOR FURNISHING ALL ANCHOR BOLTS, 2 INCH AND 3/4 INCH ELECTRIC CONDUIT ELL'S (FOR INSTALLATION UNDER 816 CONCRETE FOR OVERHEAD SIGN SUPPORT FOUNDATIONS), AND FOR FURNISHING AND INSTALLING EACH OVERHEAD SIGN SUPPORT STRUCTURE SHOWN ON SHEETS 492 THROUGH 494 INCLUDING FIXTURE SUPPORT ARMS, SWITCH ENCLOSURE MOUNTING BRACKET, SIGN BRACKETS AND ALL COMPONENT PARTS NECESSARY TO MAKE A COMPLETE WORKABLE INSTALLATION READY FOR SIGN ERECTION, INSTALLATION OF DISCONNECT SWITCH AND ENCLOSURE, GROUND ROD AND WIRE CONNECTIONS AND SIGN WIRING.

ERECTION OF THESE SUPPORTS SHALL BE ACCOMPLISHED IN A MANNER MEETING THE REQUIREMENTS OF SUPPLEMENTAL SPECIFICATION 816.

ELECTRICAL - GENERAL

THIS ITEM SHALL CONSIST OF FURNISHING ALL NECESSARY MATERIAL, LABOR AND FACILITIES REQUIRED TO COMPLETE THE ELECTRICAL INSTALLATION IN ACCORDANCE WITH THE DESIGNS, DIMENSIONS AND DETAILS SHOWN IN THE PLANS AND DESCRIBED IN THE SPECIFICATIONS.

ALL MATERIAL, WORKMANSHIP AND CONSTRUCTION METHODS, EXCEPT AS MODIFIED HEREIN, SHALL CONFORM TO THE GENERAL REQUIREMENTS OF THE STATE OF OHIO, DEPARTMENT OF HIGHWAYS, CONSTRUCTION AND MATERIALS SPECIFICATIONS, JANUARY 1, 1969.

625 SIGN SERVICE

THIS ITEM SHALL CONSIST OF THE COMPLETION OF THE ELECTRICAL SYSTEM AND COMPONENTS FROM THE CONNECTORS IN THE PULL BOX (INCLUDED WITHIN THE ROADWAY LIGHTING QUANTITIES) TO THE PRIMARY SIDE OF THE DISCONNECT SWITCH.

WORK WILL INCLUDE THE FURNISHING AND INSTALLING (INCLUDING TRENCHING AND BACKFILLING) OF THE 2 INCH GALVANIZED STEEL CONDUIT AND COUPLINGS FROM THE PULL BOX TO THE CONDUIT ELL IN THE SIGN SUPPORT FOUNDATION.

THIS ITEM WILL ALSO INCLUDE THE FURNISHING AND INSTALLING OF THE 1/C 600 VOLT SERVICE WIRE FROM THE CONNECTORS TO THE DISCONNECT SWITCH.

BASIS OF PAYMENT FOR THIS ITEM SHALL BE AT CONTRACT UNIT PRICE PER EACH, WHICH SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

625 WIRE AND CABLE

WIRE AND CABLE INSTALLATION SHALL CONFORM TO SECTION 625.14 OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS AND SHALL BE OF THE SIZES AND TYPES SHOWN ON THE PLANS.

WIRE OR CABLE INSTALLED IN CONDUIT ON OR WITH SIGN STRUCTURES SHALL BE #10 AWG, TYPE THHN, 19 STRAND, 600 VOLT STANDARD COPPER WIRE (POLE AND BRACKET CABLE).

CABLE INSTALLED UNDERGROUND LEADING FROM THE PULLBOX TO THE DISCONNECT SWITCH SHALL BE #4 OR 6 SINGLE CONDUCTOR CIRCUIT CABLE AS SHOWN IN THE PLANS.

625 DISCONNECT SWITCH WITH TYPE "Y" OR "Z" ENCLOSURE

THIS ITEM SHALL INCLUDE FURNISHING OF A 30 AMP. 600 VOLT FUSED DISCONNECT SWITCH OF TYPE AND MAKE AS INDICATED ON SHEET 503-504 AND SHALL BE MOUNTED IN A NEMA 4 STAINLESS STEEL ENCLOSURE TYPE "Y" OR "Z" AND ATTACHED TO EACH SIGN SUPPORT BY MEANS OF A MOUNTING BRACKET AS DESCRIBED IN DETAIL ON THE ABOVE SHEET.

EACH SWITCH ENCLOSURE SHALL BE FURNISHED WITH ONE PADLOCK. PADLOCKS SHALL HAVE A BRASS BODY AND WROUGHT IRON SHACKLE EQUAL TO RUSSWIN NO. 2882 KA OR MASTER NO. 4 KA OR APPROVED EQUAL.

BASIS OF PAYMENT FOR THIS ITEM SHALL BE PER EACH AT CONTRACT UNIT PRICE, WHICH SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT TO COMPLETE THIS ITEM AT WORK.

625 TRANSFORMER, BY TYPE

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING TRANSFORMERS AS DETAILED AND SPECIFIED ON SHEET 503-504

BASIS OF PAYMENT FOR THIS ITEM SHALL BE AT CONTRACT UNIT PRICE PER EACH, WHICH SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THIS COMPLETE ITEM OF WORK.

625 BALLAST, BY TYPE

BALLAST FOR FIXTURES SHALL BE WEATHER-PROOF OUTDOOR TYPE FOR A 120 VOLT, 60 CYCLE SYSTEM AND SHALL PROVIDE LAMP STARTING AT AN AMBIENT TEMPERATURE OF - 20 DEGREES F.

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING ALL BALLAST TYPES A THROUGH D AS DETAILED AND SPECIFIED ON SHEET 503.

BASIS OF PAYMENT FOR THIS ITEM SHALL BE AT CONTRACT UNIT PRICE PER EACH, FURNISHED TO THE JOB FOR INSTALLATION UNDER ITEM 625 "SIGNS WIRED, COMPLETE".

625 LIGHT FIXTURE WITH LAMP, BY TYPE AND SIZE

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING ALL LIGHT FIXTURES AND LAMPS, TYPES AND SIZES AS SPECIFIED ON SHEET 503.

BASIS OF PAYMENT FOR THIS ITEM SHALL BE AT CONTRACT UNIT PRICE PER EACH, FURNISHED TO THE JOB FOR INSTALLATION UNDER ITEM 625 SIGNS WIRED, COMPLETE.

625 GROUND RODS

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING GROUND ROD AND CABLE AS DETAILED AND SPECIFIED ON SHEET 504.

BASIS OF PAYMENT FOR THIS ITEM SHALL BE AT CONTRACT UNIT PRICE PER EACH, WHICH SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

625 SIGNS WIRED, COMPLETE

THIS ITEM SHALL CONSIST OF THE COMPLETION OF THE ELECTRICAL SIGN LIGHTING SYSTEM FOR EACH ILLUMINATED SIGN.

WORK SHALL INCLUDE INSTALLATION OF LIGHT FIXTURES AND BALLASTS, AND FURNISHING AND INSTALLATION OF ALL RIGID AND FLEXIBLE CONDUIT, CONDULETS, JUNCTION BOXES, CABLE, FASTENERS, HARDWARE, AND ALL OTHER ITEMS REQUIRED TO ENERGIZE THE SIGN LIGHTING SYSTEM. SEE DETAILS ON SHEETS 502.

THE COST OF FURNISHING AND INSTALLING CABLE, CABLE GRIPS, CABLE SPLICE UNITS, AND NECESSARY FASTENERS FROM THE DISCONNECT SWITCH TO THE SIGNS (OR BETWEEN SIGNS) WITHIN SIGN SUPPORT MEMBERS SHALL BE INCLUDED IN THIS ITEM OF WORK.

BASIS OF PAYMENT SHALL BE AT THE CONTRACT UNIT PRICE PER EACH SIGN WIRED WHICH PRICE SHALL INCLUDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND OTHER INCIDENTALS TO PROVIDE A COMPLETE AND ACCEPTED ITEM OF WORK.

ILLUMINATED SIGNS REQUIRING TWO (2) BALLASTS SHALL BE CONSIDERED AS AN EQUIVALENT OF TWO (2) SEPARATE SIGNS FOR DETERMINATION OF PAYMENT QUANTITIES.

GENERAL NOTES

CLERMONT COUNTY
CLE. 275-6.68

625 INSPECTION AND TESTING OF SIGN LIGHTING

THE CONTRACTOR SHALL FURNISH ALL LABOR, ELECTRICAL POWER, AND EQUIPMENT NECESSARY TO DEMONSTRATE TO THE ENGINEER THAT NO SHORT CIRCUITS AND UNSPECIFIED GROUNDS EXIST AND THAT THE SIGN CIRCUITS ARE PROPERLY CONNECTED AND OPERABLE PRIOR TO ACCEPTANCE.

THIS DEMONSTRATION SHALL INCLUDE A MEGGARING TEST TO SHOW THAT THE POWER CONDUCTORS ARE NOT GROUNDED AND THAT THE RESISTANCE TO GROUND FOR THE GROUND CONDUCTOR IS NOT MORE THAN 25 OHMS. WHERE RESISTANCE EXCEEDS 25 OHMS, ADDITIONAL LENGTH AND/OR NUMBERS OF RODS SHALL BE INSTALLED PER REQUIREMENTS OF 625.10.

A VOLTAGE AND AMPERAGE MEASUREMENT SHALL BE MADE AT THE SIGN SUPPORT SWITCH.

WHERE A LOW VOLTAGE TAP TRANSFORMER IS USED THE VOLTAGE MEASUREMENT SHALL BE USED TO DETERMINE THE APPLICABLE TAP.

AFTER THE SIGN LIGHTING SYSTEM IS COMPLETED, THE ENTIRE SYSTEM SHALL BE OPERATED CONTINUOUSLY EACH NIGHT UNTIL SEVEN (7) CONSECUTIVE DAYS ELAPSE WITHOUT FAILURE OR DEFECT. THE CONTRACTOR SHALL RECORD AND SUBSEQUENTLY CORRECT ANY DEFECTS WHICH MAY DEVELOP AT NO EXTRA COST TO THE STATE.

DURING THE TEST PERIOD, ADJUSTMENTS TO FIXTURE ARMING ANGLES SHALL BE MADE TO OBTAIN MAXIMUM UNIFORMITY AS DIRECTED BY THE ENGINEER.

THE ABOVE MEASUREMENTS, VOLTAGE TAP SELECTION NOTATIONS, AND METHODS OF DEFECT CORRECTION SHALL BE RECORDED AND DELIVERED TO THE ENGINEER FOR INCLUSION IN THE PROJECT RECORDS.

INSPECTION AND TESTING OF THE SIGN LIGHTING SYSTEM SHALL BE CONSIDERED A SUBSIDARY WORK ITEM AND PAYMENT THEREFOR SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE RESPECTIVE ITEMS TESTED.

CERTIFICATION AND APPROVAL OF SIGN SUPPORT & SIGN LIGHTING ITEMS

THE CONTRACTOR SHALL SUBMIT THROUGH PROPER CHANNELS THE DRAWINGS, INFORMATION, AND SAMPLES AS REQUIRED BELOW:

A. 8 COPIES OF SHOP DRAWINGS AND MATERIAL LISTS FOR APPROVAL:
   1. OVERHEAD SIGN SUPPORTS
   2. SIGN LIGHTING LAYOUT PLAN AND DETAILS FOR WIRING, CONDUIT SIZE AND PLACEMENT FROM SIGN DISCONNECT SWITCH TO FIXTURE.

B. 8 COPIES OF CATALOG CUTS DESCRIPTIONS OF SAMPLES OF FABRICATORS STANDARD ITEMS AS SHOWN IN THE PLANS OR THEIR EQUALS FOR APPROVAL OF THEIR USE.

C. CERTIFICATIONS AND/OR SAMPLES FOR ALL MATERIAL WHICH HAVE BEEN APPROVED ABOVE UNDER "A" AND "B".

D. APPROVAL OF ITEMS UNDER "A" AND "B" SHALL BE IN THE HAND OF THE CONTRACTOR PRIOR TO ANY PURCHASE OR INSTALLATION.

E. CERTIFICATIONS OF SAMPLES UNDER "C" MUST BE IN HAND AND APPROVED PRIOR TO CONTRACT COMPLETION.

816 ALTERNATE DESIGNS FOR OVERHEAD SIGN SUPPORTS

IF THE CONTRACTOR DESIRES TO FURNISH AN ALTERNATE DESIGN FOR OVERHEAD SIGN SUPPORTS, THE ALTERNATE DESIGNS MUST BE SUBMITTED TO THE STATE AT LEAST 21 DAYS PRIOR TO OPENING OF BIDS. THE BIDDER WILL BE NOTIFIED AS TO ACCEPTANCE OR REJECTION OF ALTERNATE DESIGN AT LEAST 7 DAYS BEFORE BIDS ARE TO BE OPENED. ALTERNATE DESIGNS MUST UTILIZE TUBULAR STRUCTURAL MEMBERS. SUBMISSIONS SHALL BE MADE TO OHIO DEPARTMENT OF HIGHWAYS, BUREAU OF TRAFFIC, 450 EAST TOWN STREET, COLUMBUS, OHIO 43216.

ERECTION OF OVERHEAD SPAN TYPE SIGN SUPPORTS (7 SERIES)

IN ALL CASES, SPAN TYPE OVERHEAD SIGN SUPPORTS AND SIGNS SHALL BE ERECTED CONCURRENTLY. AT NO TIME SHALL THE BOX TRUSSES BE ERECTED WITHOUT THE SIGN BEING IN PLACE WITHIN EIGHT (8) HOURS.

816 ALTERNATE DESIGNS FOR OVERHEAD SIGN SUPPORTS

IF THE CONTRACTOR DESIRES TO FURNISH AN ALTERNATE DESIGN FOR OVERHEAD SIGN SUPPORTS, THE ALTERNATE DESIGNS MUST BE SUBMITTED TO THE STATE AT LEAST 21 DAYS PRIOR TO OPENING OF BIDS. THE BIDDER WILL BE NOTIFIED AS TO ACCEPTANCE OR REJECTION OF ALTERNATE DESIGN AT LEAST 7 DAYS BEFORE BIDS ARE TO BE OPENED. ALTERNATE DESIGNS MUST UTILIZE TUBULAR STRUCTURAL MEMBERS. SUBMISSIONS SHALL BE MADE TO OHIO DEPARTMENT OF HIGHWAYS, DESIGN SERVICES, 25 SOUTH FRONT STREET, COLUMBUS, OHIO 43215.

620 DELINEATORS, AS PER PLAN

THE CONTRACTOR SHALL HAVE THE OPTION OF DRIVING OR CONCRETE EMBEDDING THE DELINEATOR POST IN ACCORDANCE WITH DETAILS OF SHEET 510.

POSTS MAY BE TRIMMED ON THE EMBEDDED ENDS TO ADJUST FOR GRADE AND REQUIRED DELINEATOR MOUNTING HEIGHT. CONCRETE SHALL BE CLASS "C".

IN EITHER CASE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO UNDERGROUND UTILITIES OR CABLE DURING PERFORMANCE OF THIS ITEM OF WORK.

THE QUANTITY FURNISHED AND INSTALLED SHALL BE PAID FOR AT THE PRICE BID PER EACH WHICH PRICE SHALL BE FULL COMPENSATION FOR EITHER TYPE OF INSTALLATION.

816 CONSTRUCTION LAYOUT STAKES

THE CONTRACTOR SHALL STAKE OUT ALL SIGNS - SUPPORTS IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 816 PRIOR TO INSTALLATION OF ANY FOUNDATIONS OR SUPPORTS.

AFTER STAKEOUT THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF SEVEN (7) DAYS IN ADVANCE OF SCHEDULED WORK. SUPPORT LOCATIONS FOR EACH SUPPORT WILL BE FIELD CHECKED AND APPROVED BY THE ENGINEER WHO SHALL COORDINATE WITH THE DIVISION TRAFFIC ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION WORK REQUIRED.

IF BOTH MAJOR AND MINOR TYPE SUPPORTS ARE INCLUDED WITHIN THE PROJECT IT WILL BE PERMISSIBLE TO PERFORM THE CONSTRUCTION STAKE-OUT AND FIELD INSPECTION IN TWO (2) STAGES, ONE FOR MAJOR SUPPORTS AND ONE FOR MINOR SUPPORTS.

COST FOR THIS ITEM OF WORK WILL BE INCIDENTAL TO THE VARIOUS 816 ITEMS OF WORK CONTAINED IN THE PROJECT.

816 OVERHEAD SIGN SUPPORT FABRICATION

IN LIEU OF PLAN DETAILS THE FOLLOWING ARE FABRICATION REQUIREMENTS FOR SUPPORTS IN THIS PROJECT:

ALL HANDHOLES FABRICATED FOR SUPPORTS SHALL BE 4" x 8" IN SIZE WITH FACE FLUSH WITH POLE EXTERIOR AT THE REQUIRED LOCATIONS DESCRIBED IN PLANS.

THE ELECTRICAL SERVICE ENTRY THROUGH EACH VERTICAL SIGN SUPPORT POLE SHALL BE PROVIDED BY MEANS OF A TWO INCH (2") HALF-COUPLING CENTERED AT A HEIGHT OF 5'-0" ABOVE THE BOTTOM OF THE BASE PLATE.

THE TYPE "Y" OR "Z" DISCONNECT SWITCH ENCLOSURE SHALL BE MOUNTED IN SUCH A MANNER THAT THE BOTTOM OF THE ENCLOSURE WILL BE 4'-9-1/2" (± 1/4") ABOVE BOTTOM OF BASE PLATE.

PAYMENT FOR THE FABRICATION REQUIREMENT SPECIFIED ABOVE SHALL BE INCIDENTAL TO THE COST OF EACH SUPPORT STRUCTURE.

816 INTERIM STEEL DRIVE POSTS, 4 LBS. PER FOOT, AS PER PLAN

THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING 4 POUND PER LINEAR FOOT STEEL DRIVE POSTS AS SPECIFIED FOR INTERIM LANE WIDTH TRANSITIONS.

THIS ITEM SHALL INCLUDE 4 POUNDS PER FOOT STEEL DRIVE POSTS 11'-0" LONG BOLTED TO THE INSIDE OF INTERIM BARRELS FURNISHED UNDER 606 USING A MINIMUM OF THREE 5/16" STEEL BOLTS SPACED ON 12" CENTERS.

POST FLANGES SHALL BE 90 DEGREES TO INTERIM EDGE LINES FACING APPROACHING TRAFFIC. STEEL BEARING PLATES 3" x 2" SHALL BE USED AT EACH BOLT OUTSIDE THE BARREL TO PREVENT PULL THROUGH. MOUNTING OF SIGNS 7' ABOVE THE PAVEMENT SHALL BE INCLUDED IN ITEM 815.

THE QUANTITY FURNISHED AND INSTALLED WILL BE PAID FOR AT THE PRICE BID PER LIN. FT. WHICH PRICE SHALL BE FULL COMPENSATION FOR FURNISHING AND INSTALLING DRIVE POSTS INCLUDING NECESSARY HARDWARE, LABOR AND EQUIPMENT.

INTERIM PAVEMENT MARKING, BY TYPE

THIS WORK SHALL CONSIST OF THE FURNISHING AND INSTALLATION OF INTERIM REMOVABLE MARKINGS AS SPECIFIED HEREIN AND SHOWN ON THE PLANS.

1. MATERIAL

   MATERIAL SHALL CONSIST OF A BACKING COATED WITH A PRESSURE-SENSITIVE ADHESIVE AND A WEATHER AND TRAFFIC RESISTANT REFLECTIVE WHITE OR YELLOW COLORED SURFACE AND ADDITIONAL REQUIREMENTS AS FOLLOWS:

   A. REFLECTION - THE WHITE AND YELLOW STRIPING MATERIAL SHALL BE REFLEX-REFLECTIVE, REFLECTING WHITE OR YELLOW RESPECTIVELY AND SHALL BE READILY VISIBLE WHEN VIEWED WITH AUTOMOBILE HEADLIGHTS AT NIGHT.

   B. ADHESIVE - THE STRIPING MATERIAL SHALL HAVE A PRECOATED PRESSURE-SENSITIVE ADHESIVE WHICH SHALL NOT REQUIRE A LINER FOR PROTECTION FROM CONTAMINATION, PREADHESION, OR BLOCKING WITHIN THE ROLL AS DELIVERED.

   C. CONFORMABILITY - THE STRIPING MATERIAL SHALL BE THIN, FLEXIBLE, FORMABLE, AND FOLLOWING APPLICATION, SHALL REMAIN CONFORMED TO THE TEXTURE OF THE PAVEMENT SURFACE.

   D. REMOVABILITY - THE STRIPING MATERIAL BACKING SHALL PERMIT REMOVAL WITHOUT REQUIRING SANDBLAST, SOLVENT, OR GRINDING METHODS.

   E. DURABILITY - THE STRIPING MATERIAL APPLIED IN ACCORDANCE WITH RECOMMENDED PROCEDURES SHALL BE WEATHER RESISTANT AND SHOW NO APPRECIABLE FADING, LIFTING OR SHRINKAGE, PRIOR TO COMPLETION OF THIS PROJECT.

   F. GENERAL - THE STRIPING MATERIAL AS SUPPLIED SHALL BE OF GOOD APPEARANCE, FREE FROM CRACKS, AND EDGES SHALL BE TRUE, STRAIGHT, AND UNBROKEN. THE STRIPING MATERIAL SHALL BE SUPPLIED IN ROLLS AND THERE SHALL BE NO MORE THAN 3 SPLICES PER 60 YARDS OF LENGTH.

   G. THE STRIPING MATERIAL SHALL BE PREPARED FOR DELIVERY IN STANDARD COMMERCIAL CONTAINERS SO CONSTRUCTED AS TO INSURE ACCEPTANCE BY THE CARRIER AND PREVENT DAMAGE DURING PROPER SHIPMENT AND STORAGE.

   THE CONTRACTOR SHALL STORE THE MATERIAL IN A COOL, DRY LOCATION WHERE TEMPERATURE WILL NOT EXCEED 100 DEGREES F. PRIOR TO APPLICATION OF MARKING ON ROADWAY SURFACES.

2. ROAD SURFACE PREPARATION

   THE ROAD SURFACE MUST BE CLEAN AND DRY, FREE OF OILS AND GREASE, DUST OR DIRT. ALL SURFACES MUST BE PRIMED.

   CONCRETE PAVEMENT SHALL BE SURFACE TREATED IN ACCORDANCE WITH SECTION 621.04. SURFACE SHALL THEN BE GENEROUSLY FLUSHED WITH CLEAN WATER AND ALLOWED TO DRY THOROUGHLY PRIOR TO APPLICATION OF PRIMER AND INTERIM MARKINGS.

3. PRIMING

   METHOD OF PRIMING SHALL BE AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL SUBMIT A PROPOSAL FOR TYPE OF PRIMING TO BE USED. COST FOR PRIMING SURFACES SHALL BE INCIDENTAL TO THE COST OF VARIOUS ITEMS INCLUDED IN ITEM 615, TEMPORARY ROADS, AS PER PLAN.

4. APPLICATION

   INTERIM LINES SHALL BE APPLIED TO THE ROAD SURFACE WITH A ROLLER TYPE APPLICATOR AND ROLLED IMMEDIATELY AFTERWARDS BY RUBBER-TIRED ROLLER WITH APPROXIMATE SINGLE WHEEL LOAD BETWEEN ONE THOUSAND (1000) AND TWO THOUSAND (2000) POUNDS.

5. SPECIAL PLAN DETAILS

   DETAILS FOR LOCATION OF INTERIM MARKINGS ARE SHOWN ON SIGN LOCATION PLAN SHEETS.

6. BASIS OF PAYMENT

   COST OF FURNISHING AND INSTALLATION OF INTERIM PAVEMENT MARKING SHALL BE INCLUDED AT THE CONTRACT UNIT PRICE PER LINEAR FOOT.

FED. AID DIVISION | STATE | 489 / 638

CLERMONT COUNTY
CLE 275-6.68

GENERAL NOTES

816 DISCONNECT SWITCH ENCLOSURE MOUNTING BRACKET

THIS ITEM SHALL INCLUDE THE FABRICATING, FURNISHING AND INSTALLING OF DISCONNECT SWITCH ENCLOSURE MOUNTING BRACKETS ATTACHED TO CONCRETE BRIDGE COLUMNS OR ABUTMENTS.

WORK SHALL CONSIST OF FIELD DRILLING ATTACHMENT AND HARDWARE AS DETAILED ON SHEET 494.

BASIS OF PAYMENT SHALL BE AT THE BID PRICE PER EACH MOUNTING BRACKET WHICH PRICE SHALL BE FULL COMPENSATION FOR FURNISHING FABRICATION AND INSTALLATION, INCLUDING ALL LABOR, MATERIAL AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM OF WORK.

815 SIGN ERECTION, INTERIM FLAT SHEET OVERLAY TYPE

THIS ITEM OF WORK SHALL CONSIST OF THE ASSEMBLY AND ERECTION OF INTERIM ALUMINUM FLAT SHEET OVERLAY SIGNS FURNISHED BY OTHERS TO BE PLACED OVER SIGN PANELS AT LOCATIONS SHOWN IN THE PLANS.

METHOD OF ATTACHMENT SHALL BE BY RIVETS ON PERIPHERY AND ENTIRE SURFACE AREA OF THE SHEETING AT A MAXIMUM SPACING OF 2'-6".

CONTRACTOR'S RESPONSIBILITY FOR OVERLAYS FURNISHED BY OTHERS SHALL BE SIMILAR TO THOSE SPECIFIED IN THE "SIGN ERECTION BY TYPE" ITEM CONTAINED IN THESE PLANS.

BASIS OF PAYMENT SHALL BE AT THE CONTRACT BID PRICE PER SQUARE FOOT FOR ERECTION OF INTERIM SIGN OVERLAYS INCLUDING ALL EQUIPMENT, LABOR, MATERIALS INCIDENTAL TO THIS ITEM OF WORK.

815 INTERIM COVERING FOR SIGNS

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLAING AN INTERIM COVER AND ATTACHMENT MATERIALS FOR SIGNS SO INDICATED IN THE PLANS OR AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL ALSO INCLUDE THE SUBSEQUENT REMOVAL OF COVERS WHEN DIRECTED BY THE ENGINEER.

MATERIAL FOR COVERING SHALL BE PLASTIC COATED BURLAP BLANKETS IN CONFORMANCE WITH 705.09.

THE ENGINEER SHALL APPROVE THE METHOD PROPOSED FOR ATTACHING INTERIM COVERS TO SIGNS PRIOR TO INSTALLATION OF COVERS.

WORK SHALL INCLUDE ALL NECESSARY MATERIAL, HARDWARE, LABOR, AND EQUIPMENT REQUIRED TO PERFORM THE REQUIRED ITEM OF WORK.

BASIS OF PAYMENT SHALL BE INTERIM COVERING FOR SIGNS, PER SQUARE FOOT.

815 SIGN ERECTION, EXTRUSHEET OR FLAT SHEET TYPE

THE CONTRACTOR SHALL ERECT SIGN PANELS AS INDICATED ON THE SCHEMATIC SIGNING PLAN SHEET NUMBERS 475 & 481. THE PANELS WILL BE FURNISHED BY OTHERS AND SHALL BE MOUNTED ON THE BRACKETS OR BEAM SUPPORTS PROVIDED IN THE PLANS.

ALL SIGN MATERIAL AND ACCESSORIES WILL BE FURNISHED AND TRANSPORTED BY OTHERS TO A DELIVERY POINT DESIGNATED BY THE CONTRACTOR ON OR NEAR THE SUBJECT PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE HANDLING, PROTECTION AND STORAGE OF THE SIGN PANELS AND ACCESSORIES FROM THE TIME OF UNLOADING BY OTHERS AT THE DELIVERY POINT.

LARGE GUIDE SIGNS (OVER 8 FEET IN HEIGHT) MAY BE DELIVERED UNASSEMBLED. WORK SHALL ALSO CONSIST OF ASSEMBLY OF THESE PANELS INCLUDING ATTACHMENT OF DEMOUNTABLE SIGN LEGEND WHERE NECESSARY, AND ERECTION OF SIGNS IN CONFORMANCE WITH THE SCHEMATIC SIGN PLAN.

THE CONTRACTOR SHALL SUBMIT, IN THREE COPIES, A SCHEDULE FOR SIGN ERECTION TO THE ENGINEER AT LEAST 120 CALENDAR DAYS PRIOR TO THE START OF ANY SCHEDULED ERECTION WORK. THE SCHEDULE SHALL INCLUDE PROPOSED DATES, SIGN NUMBERS, AND DELIVERY POINT. THE ENGINEER WILL FURNISH COPIES OF THE SCHEDULE TO THE DIVISION TRAFFIC ENGINEER AND TO THE ENGINEER OF DESIGN SERVICES, 25 SOUTH FRONT STREET, COLUMBUS, OHIO, 43215.

THE PRICE BID PER SQUARE FOOT FOR "ITEM 815, SIGN ERECTION, BY TYPE", SHALL INCLUDE PAYMENT FOR ALL NECESSARY EQUIPMENT, LABOR, AND TOOLS TO STORE, ASSEMBLE, AND ERECT THE SIGNS AS SPECIFIED.

620 INTERIM DELINEATORS, AS PER PLAN

THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING INTERIM DELINEATORS AS SPECIFIED ON PLAN SHEETS.

THIS ITEM SHALL INCLUDE 2 POUNDS PER FOOT STEEL DRIVE POSTS 4'-0" LONG BOLTED TO INSIDE OF INTERIM BARRELS FURNISHED UNDER 606 USING A MINIMUM OF THREE 5/16" STEEL BOLTS SPACED ON 12"CENTERS. POST FLANGES SHALL BE 90 DEGREES TO INTERIM EDGE LINES FACING APPROACHING TRAFFIC. TYPE C2 DELINEATORS SHALL BE MOUNTED ON THE DRIVE POST FLANGES WITH THE TOP OF THE DELINEATOR 4' ABOVE THE PAVEMENT.

THE QUANTITY FURNISHED AND INSTALLED WILL BE PAID FOR AT THE PRICE BID PER EACH WHICH PRICE SHALL BE FULL COMPENSATION FOR FURNISHING AND INSTALLAING DRIVE POSTS AND DELINEATORS INCLUDING NECESSARY HARDWARE, LABOR AND EQUIPMENT.

606 INTERIM BARRELS,AS PER PLAN

THIS WORK SHALL CONSIST OF FURNISHING AND PLACEMENT OR 55 GALLON BARRELS AS SPECIFIED ON PLAN SHEETS.

THE BARRELS SHALL BE PAINTED YELLOW AND HALF FILLED WITH GRANULAR MATERIAL. IN ADDITION TO PAINTING REQUIREMENTS, AN 8" BAND OF YELLOW REFLECTORIZED SHEEETING, TYPE E, SHALL BE PROVIDED AROUND THE CIRCUMFERENCE OF EACH BARREL AT THE TOP. REFLECTORIZATION AND APPLICATION OF THE SHEETING SHALL BE IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATIONS 815.

FOR DRAINAGE OF STEEL DRUMS, 4 EACH ONE-HALF INCH (1/2") DIAMETER HOLES SHALL BE PROVIDED ON THE CIRCULAR SURFACE NEAR THE BOTTOM OF EACH DRUM.

THE QUANTITY FURNISHED AND INSTALLED WILL BE PAID FOR AT THE PRICE BID PER EACH WHICH PRICE SHALL BE FULL COMPENSATION FOR FURNISHING AND INSTALLING BARRELS INCLUDING PAINTING, REFLECTORIZED SHEETING, GRANULAR MATERIAL AND NECESSARY LABOR AND EQUIPMENT.

815 INTERIM COVERING FOR SIGNS

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING AN INTERIM COVER AND ATTACHMENT MATERIALS FOR SIGNS SO INDICATED IN THE PLANS OR AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL ALSO INCLUDE THE SUBSEQUENT REMOVAL OF COVERS WHEN DIRECTED BY THE ENGINEER.

MATERIAL FOR COVERING SHALL BE PLASTIC COATED BURLAP BLANKETS IN CONFORMANCE WITH 705.09.

THE ENGINEER SHALL APPROVE THE METHOD PROPOSED FOR ATTACHING INTERIM COVERS TO SIGNS PRIOR TO INSTALLATION OF COVERS.

WORK SHALL INCLUDE ALL NECESSARY MATERIAL, HARDWARE, LABOR, AND EQUIPMENT REQUIRED TO PERFORM THE REQUIRED ITEM OF WORK.

BASIS OF PAYMENT SHALL BE INTERIM COVERING FOR SIGNS, PER SQUARE FOOT.

A QUANTITY OF 1000 SQ. FT. FOR ITEM 815, INTERIM COVERING FOR SIGNS, HAS BEEN INCLUDED TO COVER SIGNS AS DIRECTED BY THE ENGINEER.

816 STRUCTURAL SUPPORTS, 8 LB. BEAM, AS PER PLAN

THIS ITEM SHALL CONSIST OF THE FURNISHING, ASSEMBLY, AND INSTALLATION OF TWO (2) 4 LB. PER FOOT DRIVE POSTS (8 LB. BEAM) IN COMBINATION WITH A SQUARE SEAMLESS TUBULAR POST EXTENSION SPLICED TO THE TOP OF THE 8 LB. BEAM. DETAILS ARE SHOWN ON SHEET 507.

SQUARE SEAMLESS TUBULAR POST MATERIAL SHALL BE MILD STEEL CONFORMING TO ASA 1020 STEEL, MINIMUM YIELD STRENGTH 35,000 PSI, ULTIMATE YIELD 55,000 PSI.

WORK SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND HARDWARE NECESSARY TO PERFORM THE REQUIRED ITEM OF WORK.

BASIS OF PAYMENT SHALL BE FOR STRUCTURAL SUPPORTS, 8 LB. BEAM, AS PER PLAN PER LINEAR FOOT MEASURED BY TOTAL LENGTH OF COMBINATION BEAM FROM END TO END.

SIGNING GENERAL NOTES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

490
638

CLERMONT COUNTY
CLE.-275-6.68

GROUND MOUNTED SIGN QUANTITIES

SIGN REF. NO.	STATION & LOCATION	815 - SIGNS: SIGN SIZE	Sign Erection: Flat Sheet Overlay Type S.F.	Flat Sheet Type S.F.	Extra Sheet Type S.F.	816 - SIGN SUPPORT: Breakaway Connection Ea.	Steel Drive Post 4# per Foot L.F.	Structural Support 6# Beam L.F.	Structural Support 8# Beam L.F.	Structural Support 10WF21 L.F.	Structural Support 12WF30 L.F.	Foundation Concrete L.F.	CODE C.Y.
	Numbered Signs												
76	358+50 N.B.	13'x 9.5' & 9'x 2'			141.5	2				49.9		2.50	N-12B-108 GD
78	430+00 S.B.	14'x 11.5' & 12'x 2'			189.0						60.0	3.00	N-12C-168 GD
79	484+75 S.B.	14'x 11.5' & 12'x 2'			189.0	2					56.3	3.00	N-12C-168 GD
80	510+00 S.B.	13'x 9.5' & 10'x 2'			143.5	2				48.9		2.50	N-12B-120 GD
85	141+00 W.B. S.R. 32	11'x 9.5'	15.0		104.5	2				47.9		2.50	GD
86	117+75 W.B. S.R. 32	11'x 9.5'			104.5	2				47.9		2.50	GD
91	38+50 E.B. S.R. 32	11'x 9.5'	40.0		104.5	2				47.9		2.50	GD
92	17+00 E.B. S.R. 32	11'x 9.5'	15.0		104.5	2				47.9		2.50	GD
93	595+00 N.B.	13'x 8' & 10'x 2'			124.0	2				46.9		2.50	N-12B-120 GD
94	613+75 S.B.	18'x 11.5' & 9'x 2'	178.5		225.0						56.9	3.00	N-12B-108 GD
95	615+00 N.B.	12'x 11.5' & 12'x 2'	136.5		162.0						56.7	3.00	N-12C-168 GD
96	640+00 S.B.	18'x 11.5' & 10'x 2'	178.5		227.0	2					56.5	3.00	N-12B-108 GD
99	78+00 W.B. S.R. 125	10'x 4'	15.8		40.0		33					0.24	GD
105	39+68 E.B. S.R. 125	10'x 4'	30.0		40.0		33					0.24	GD
106	723+00 N.B.	18'x 11.5' & 9'x 2'			225.0	2					57.6	3.00	N-12B-108 GD
* 107	1811+00 N.B.	18'x 11.5' & 9'x 2'			*225.0						*91.8	*4.50	N-12B-108 GD
* 108	1842+00 S.B.	18'x 6' & 9'x 2'			*126.0	*2				*42.9		*2.50	N-12B-108 GD
* 109	1868+00 S.B.	18'x 6' & 9'x 2'			*126.0	*2				*42.9		*2.50	N-12B-108 GD
	Mainline												
	364+29 S.B.	11'x 4.5'			49.5			50.1				0.36	EA-3-132
	381+00 S.B. Median	48"x 60"		20.0					16.8			0.12	E-7A-48
	389+00 N.B.	13'x 9.5' & 9'x 2'			141.5					49.9		2.50	N-12B-108 GD
	391+00 N.B. Median	48"x 60"		20.0					16.8			0.12	E-7A-48
	405+22 N.B.	11'x 4.5'			49.5			50.1				0.36	EA-3-132
	414+00 S.B.	42"x 36" & 36"x 18"		15.0				16.4				0.12	TM-38-36 M-2A-36-3
	424+00 S.B.	48"x 60" & 48"x 48"		36.0				36.5				0.24	E-10-48 E-16-48
	450+00 N.B.	11'x 4.5'			49.5	2				39.7		2.50	EA-1-132
	498+75 N.B.	10'x 6'			60.0				64.6			0.36	GH
	508+76 N.B.	48"x 60" & 48"x 48"		36.0				36.5				0.24	E-10-48 E-16-48
	518+76 N.B.	58"x 51" & 36"x 18"		25.0				16.8				0.12	TM-37-36 M-3A-48-3
	541+76 N.B.	48"x 48"		16.0				16.2				0.12	W-49-48
	545+00 S.B.	48"x 48"		16.0				16.2				0.12	W-49-48
	555+00 N.B.	48"x 48"		16.0				16.2				0.12	W-49-48
	561+86 S.B.	48"x 48"		16.0				16.2				0.12	W-49-48
	584+00 S.B.	58"x 51" & 36"x 18"		25.0				16.5				0.12	TM-37-36 M-3A-48-3
	587+19.7 N.B. Median	36"x 48"		12.0			31.3					0.24	E-23-36
	587+35 N.B. Median	18"x 12"		1.5			13.4					0.12	E-19-18
	587+65 S.B. Median	18"x 12"		1.5			13.4					0.12	E-19-18
	587+80.3 S.B. Median	36"x 48"		12.0			31.7					0.24	E-23-36
	595+00 S.B.	48"x 60" & 48"x 48"		36.0				36.5				0.24	E-10-48 E-16-48
	605+00 S.B.	18'x 6'	85.0		108.0	2				42.9		2.50	GH
	632+00 N.B.	12'x 6'			72.0	2				42.1		2.50	GH
	641+62 N.B.	48"x 60" & 48"x 48"		36.0				36.5				0.24	E-10-48 E-16-48
	645+19.7 N.B. Median	36"x 48"		12.0			31.3					0.24	E-23-36
	645+35 N.B. Median	18"x 12"		1.5			13.4					0.12	E-19-18
	645+65 S.B. Median	18"x 12"		1.5			13.4					0.12	E-19-18
	645+80.3 S.B. Median	36"x 48"		12.0			31.7					0.24	E-23-36
	651+62 N.B.	58"x 51" & 36"x 18"		25.0				16.8				0.12	TM-37-36 M-3A-48-3
	674+50 N.B.	48"x 48"		16.0				15.9				0.12	W-49-48
	677+50 N.B.	48"x 48"		16.0				16.2				0.12	W-49-48
	686+50 N.B.	48"x 48"		16.0				15.9				0.12	W-49-48
	689+50 S.B.	48"x 48"		16.0				16.2				0.12	W-49-48
	712+92 S.B.	58"x 51" & 36"x 18"		25.0				16.8				0.12	TM-37-36 M-3A-48-3
	717+69.7 N.B.	36"x 48"		12.0			31.7					0.24	E-23-36
	717+85 N.B.	18"x 12"		1.5			13.4					0.12	E-19-18
	718+15 S.B.	18"x 12"		1.5			13.4					0.12	E-19-18
	718+30.3 S.B.	36"x 48"		12.0			31.7					0.24	E-23-36
	722+92 S.B.	48"x 60" & 48"x 48"		36.0				36.5				0.24	E-16-48
	733+16.69 N.B.	7'x 4'			28.0			32.7				0.24	GI
	733+16.69 S.B.	7'x 4'			28.0			32.7				0.24	GI
*	1799+00 S.B.	13'x 6'			*78.0					*46.3		*2.50	GH
*	1856+00 N.B.	11'x 6'			*66.0	*2				*42.7		*2.50	GH
*	1866+00 N.B.	48"x 60" & 48"x 48"		*36.0				*36.5				*0.24	E-10-48 E-16-48
	SUB TOTAL CLERMONT COUNTY		694.3	594.0	2710.0	26	335.8	560.4	98.2	511.9	344.0	52.70	
	TOTAL HAMILTON COUNTY			36.0	62.0	6		36.5		17.4.8	91.8	14.74	

* HAMILTON COUNTY

GROUND MOUNTED SIGN QUANTITIES

SIGN REF. NO.	STATION & LOCATION	815 - SIGNS: SIGN SIZE	Sign Erection: Flat Sheet Overlay Type S.F.	Flat Sheet Type S.F.	Extra Sheet Type S.F.	816 - SIGN SUPPORT: Breakaway Connection Ea.	Steel Drive Post 4# per Foot L.F.	Structural Support 6# Beam L.F.	Structural Support 8# Beam L.F.	Structural Support 10WF21 L.F.	Structural Support 12WF31 L.F.	Foundation Concrete C.Y.	CODE
	Rest Area												
	372+66 S.B. Ramp "T" Lt.	6' x 5.5'			33.0			32.6				0.24	EA-4-72
	380+20 S.B. Ramp "T" Rt.	48" x 30"		10.0			28.4					0.24	EA-24-48
	380+20 S.B. Ramp "T" Lt.	36" x 36"		9.0			29.8					0.24	E-41-30
	80+95 Parking Lot S.B. 135 Rt.	36" x 36"		9.0			13.3					0.12	E-256-36
	84+695 Parking Lot S.B. 28 Lt.	36" x 12"		3.0			11.4					0.12	E-432-36
	390+00 S.B.	48" x 48"		16.0				15.6				0.12	W-49-48
	381+76 N.B.	48" x 48"		16.0				15.6				0.12	W-49-48
	87+42.88 Parking Lot N.B. 28 Rt.	36" x 12"		3.0			11.4					0.12	E-432-36
	91+20 Parking Lot N.B. 13.5 Lt.	36" x 36"		9.0			13.3					0.12	E-256-36
	391+95.57 N.B. Ramp "W" Lt.	48" x 30"		10.0			28.4					0.24	EA-24-48
	391+95.57 N.B. Ramp "W" Rt.	36" x 36"		9.0			29.4					0.24	E-41-30
	396+88 N.B. Ramp "W" Rt.	6' x 5.5'			33.0			32.1				0.24	EA-4-72
	Borgs Salt Run Rd.												
	36+00 E.B.	30" x 30"		6.3			14.2					0.12	W-2-30
	42+75 E.B.	30" x 30"		6.3			14.7					0.12	W-5-30
	45+50 W.B.	30" x 30"		6.3			14.7					0.12	W-2-30
	52+57 E.B.	30" x 30"		6.3			14.7					0.12	E-1-30
	58+00 W.B.	30" x 30"		6.3			14.2					0.12	W-5-30
	State Route 32												
	65+94 E.B.	3.5' x 5'		17.5				16.0				0.12	M-45-42
	71+00 E.B.	36" x 36"		9.0			29.7					0.24	W-49-36
	73+00 W.B.	36" x 36"		9.0			29.2					0.24	W-49-36
	77+08 W.B.	3.5' x 5'		17.5				16.5				0.12	M-45-42
	82+62 E.B.	3.5' x 5'		17.5				16.4				0.12	M-45-42
	85+00 E.B.	48" x 48"		16.0				15.7				0.12	W-49-48
	89+50 W.B.	48" x 48"		16.0				15.9				0.12	W-49-48
	90+65 W.B.	3.5' x 5'		17.5				15.7				0.12	M-45-42
	105+75 E.B.	6' x 1'		6.0				24.0				0.24	D-7-72
	109+00 W.B.	6' x 1'		6.0				24.0				0.24	D-7-72
	111+00 W.B.	30" x 30"		6.3			13.5					0.12	W-26-30
	Ramp "F"												
	537+20.36 S.B. Lt.	8' x 5'		40.0					31.9			0.24	N-12A-96
	Ramp "G"												
	534+30 S.B. Rt.	36" x 36"		9.0			29.1					0.24	W-98-36
	535+75 S.B. Rt.	36" x 36"		9.0			30.3					0.24	E-154-36
	547+35 S.B. Rt.	60" x 60" x 60"		10.9				15.7				0.12	E-2-60
	Ramp "H"												
	553+00 N.B. Lt.	36" x 36"		9.0			30.3					0.24	E-154-36
	Ramp "I"												
	536+75 N.B. Rt.	48" x 48" x 48"		7.0			15.7					0.12	E-2-48
	547+00 N.B. Lt.	8' x 5'			40.0				33.1			0.24	N-12A-96
	547+30 N.B. Rt.	48" x 60"		20.0					16.7			0.12	W-97-48
	Ramp "J"												
	548+00 S.B. Rt.	36" x 36"		9.0			30.3					0.24	E-154-36
	SUB TOTAL CLERMONT COUNTY			337.7	146.0		446.0	255.8	81.7			6.36	
	SUB TOTAL CLERMONT COUNTY	694.3	559.0	2710.0	26	335.8	560.4	98.2	511.9	344.0	52.70		
	TOTAL CLERMONT COUNTY	694.3	891.7	2856.0	26	781.8	816.2	179.9	511.9	344.0	59.06		
	TOTAL HAMILTON COUNTY		36.0	62.0	6		36.5		17.4.8	91.8	14.74		
	SHEET TOTAL	694.3	927.7	3477.0	32	781.8	852.7	179.9	686.7	435.8	73.80		

Calc. R.I. 12/15/69
Ckd. AB 12/20/69

GROUND MOUNTED SIGN QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CLERMONT COUNTY
CLE.-275-6.68

491
638

GROUND MOUNTED SIGN QUANTITIES

SIGN REF. NO.	STATION & LOCATION	815 - SIGNS: SIGN SIZE	Sign Erection: Flat Sheet Overlay Type	Sign Erection: Flat Sheet Type	Sign Erection: Extru Sheet Type	816 - SIGN SUPPORT: Breakaway Connection	Steel Drive Post 4# per Foot	Structural Support 6# Beam	Structural Support 8# Beam	Structural Support 10WF 21	Structural Support 12 WF 30	Foundation Concrete	CODE
			S.F.	S.F.	S.F.	Ea.	L.F.	L.F.	L.F.	L.F.	L.F.	C.Y.	
	Ramp "K"												
	555+68 S.B. Rt.	48" x 60"		20.0					16.7			0.12	W-97-48
	556+00 S.B. Lt.	8' x 5'			40.0				32.8			0.24	N-12A-96
	568+65 S.B. Rt.	48" x 48" x 48"		7.0			15.7					0.12	R-2-48
	Ramp "L"												
	544+25 N.B. Lt.	48" x 48" x 48"		7.0			15.7					0.12	R-2-48
	Ramp "M"												
	553+32 N.B. Lt.	60" x 60" x 60"		10.9				15.7				0.12	R-2-60
	563+00 N.B. Lt.	36" x 36"		9.0			30.3					0.24	R-15A-36
	564+60 N.B. Lt.	36" x 36"		9.0			29.5					0.24	W-98-36
	Relocated Aicholtz Rd.												
	28+00 N.B. Rt.	30" x 30"		6.3			13.5					0.12	W-13-30
	33+50 S.B. Lt.	30" x 30"		6.3			13.5					0.12	W-13-30
	44+00 N.B. Rt.	30" x 30"		6.3			13.5					0.12	W-45-30
	48+50 N.B. Rt.	30" x 30"		6.3			13.5					0.12	R-1-30
	Aicholtz Rd. Connection												
	10+20 E.B. Lt.	30" x 30"		6.3			13.5					0.12	R-1-30
	10+50 W.B. Rt.	30" x 30"		6.3			13.5					0.12	W-48-30
	Rust Lane Extension												
	17+17.5 W.B.	30" x 30"		6.3			11.8					0.12	R-1-30
	State Route 125												
	35+00 E.B.	58" x 51" & 36" x 18"		25.0				16.8				0.12	TM-17-24 M-5A-30-3
	41+00 E.B.	12' x 1.5'		18.0			30.5					0.24	D-11-144
	45+20 W.B.	10' x 1' & 10' x 1' Back to Back		20.0			26.5					0.24	D-7-120
	45+75 E.B.	6' x 1' & 6' x 1' Back to Back		12.0			27.0					0.24	D-7-72
	49+00 W.B.	12' x 1.5'		18.0			30.5					0.24	D-11-144
	49+97 E.B.	3.5' x 5'		17.5				16.0				0.12	M-45-42
	50+25 W.B.	24" x 24" & 24" x 12"		6.0			15.2					0.12	M-40-24 M-5-24
	54+14	3.5' x 5'		17.5				16.5				0.12	M-45-42
	60+98 E.B.	3.5' x 5'		17.5				16.5				0.12	M-45-42
	65+50 E.B.	10' x 1.5'		15.0			28.6					0.24	D-11-120
	67+50 E.B.	24" x 24" & 24" x 12"		6.0			14.9					0.12	M-40-24 M-5-24
	71+50 E.B.	80" x 42"		23.4					15.9			0.12	D-6-80
	75+00 W.B.	58" x 51" & 36" x 18"		25.0				16.8				0.12	TM-17-24 M-5A-30-3
	Ramp N												
	667+46 S.B. Lt.	6' x 5'			30.0			32.7				0.24	N-12A-72
	671+35 S.B. Rt.	48" x 48"		16.0				16.4				0.12	W-45-48
	674+75 S.B. Rt.	12' x 4', 36" x 36" & 30" x 24"		14.0	48.0				50.5			0.36	M-2-36, D-4-2 M-25-30
	682+40 S.B. Lt.	48" x 48", 36" x 36" & 2-36" x 12"		31.0				16.3				0.12	As Per Plan
	682+40 S.B. Rt.	48" x 48", 36" x 36" & 2-36" x 12"		31.0				16.3				0.12	As Per Plan
	Ramp "O"												
	667+19 S.B. Rt.	36" x 36"		9.0			28.8					0.24	W-98-48
	668+25 S.B. Rt.	36" x 36"		9.0			30.3					0.24	R-15A-36
	SUB TOTAL CLERMONT COUNTY			437.9	118.0		416.3	180.0	115.9			5.64	

GROUND MOUNTED SIGN QUANTITIES

SIGN REF. NO.	STATION & LOCATION	815 - SIGNS: SIGN SIZE	Sign Erection: Flat Sheet Overlay Type	Sign Erection: Flat Sheet Type	Sign Erection: Extru Sheet Type	816 - SIGN SUPPORT: Breakaway Connection	Steel Drive Post 4# per Foot	Structural Support 6# Beam	Structural Support 8# Beam	Structural Support 10WF 21	Structural Support 12 WF 31	Foundation Concrete	CODE
			S.F.	S.F.	S.F.	Ea.	L.F.	L.F.	L.F.	L.F.	L.F.	C.Y.	
	Ramp "P"												
	683+50 N.B. Lt.	36" x 36"		9.0			30.5					0.24	R-15A-36
	684+98 N.B. Lt.	36" x 36"		9.0			29.7					0.24	W-98-36
	Ramp "Q"												
	680+02 S.B. Rt.	36" x 36"		9.0			29.5					0.24	W-98-36
	681+25 S.B. Rt.	36" x 36"		9.0			30.3					0.24	R-15A-36
	Ramp "R"												
	680+52.19 N.B. Lt.	48" x 48", 36" x 36" & 2-36" x 12"		31.0				16.3				0.12	As Per Plan
	680+52.19 N.B. Rt.	48" x 48", 36" x 36" & 2-36" x 12"		31.0				16.3				0.12	As Per Plan
	687+50 N.B. Lt.	12' x 4', 24" x 24" & 20" x 15"		6.1	48.0				50.5			0.36	M-2-36, D-4-2 M-25-30
	692+60 N.B. Lt.	48" x 48"		16.0				16.3				0.12	W-45-48
	694+40 N.B. Rt.	6' x 5'			30.0			32.6				0.24	N-12A-72
	Ramp "S"												
	695+75 N.B. Rt.	36" x 36"		9.0			30.5					0.24	R-15A-36
	696+03 N.B. Lt.	36" x 36"		9.0			30.1					0.12	W-98-36
	Relocated Mt. Carmel Tobasco Rd.												
	59+50 S.B.	30" x 30"		6.3			14.7					0.12	W-47-30
	59+50 N.B.	30" x 30"		6.3			14.6					0.12	W-1-30
	67+70 S.B.	30" x 30"		6.3			14.7					0.12	W-1-30
	Relocated 9 Mile Rd.												
	39+00 N.B.	30" x 30"		6.3			14.0					0.12	W-5-30
	44+90 N.B.	30" x 30"		6.3			15.2					0.12	W-45-30
	45+00 S.B.	30" x 30"		6.3			14.5					0.12	W-2-30
	49+36.33 N.B.	30" x 30"		6.3			14.7					0.12	R-1-30
	49+43.83 N.B.	6' x 1' & 6' x 1' Back to Back		12.0			26.7					0.24	D-7-72 D-7-72
	West Connection of 9 Mile Rd.												
	9+80 E.B.	30" x 30"		6.3			14.7					0.12	R-1-30
	SUB TOTAL CLERMONT COUNTY			200.5	78.0		324.4	81.5	50.5			3.48	
	SUB TOTAL CLERMONT COUNTY			437.9	118.0		416.3	180.0	115.9			5.64	
	TOTAL THIS SHEET			638.4	196.0		740.7	261.5	166.4			9.12	

Calc. R.I. 12/15/69
Ckd. A.B. 12/20/69

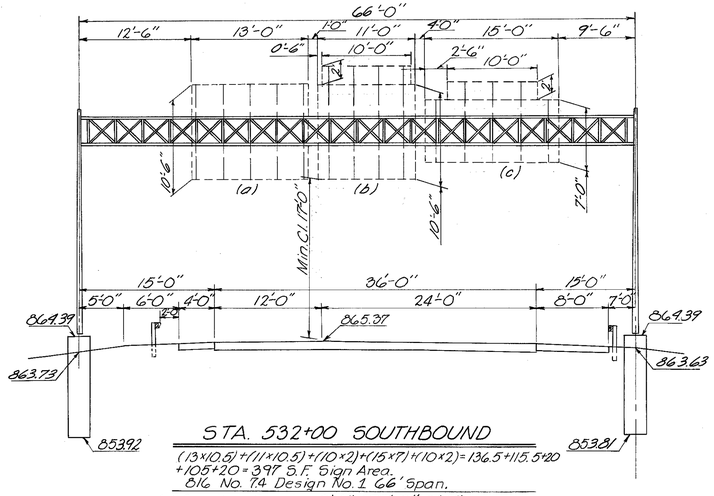
GROUND MOUNTED SIGN QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

492
638

CLERMONT COUNTY
CLE. 275-6.68

81

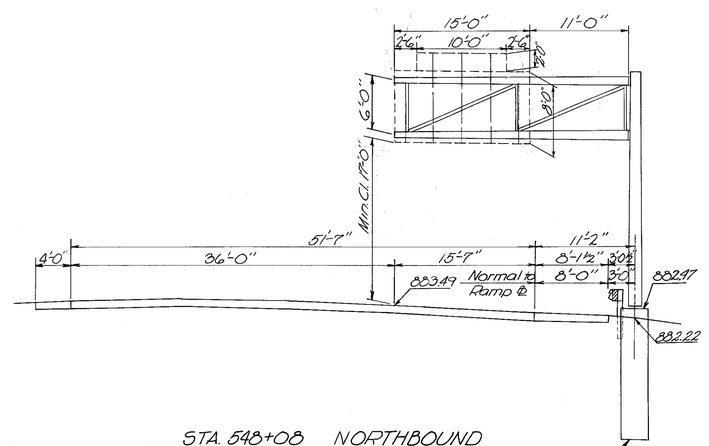


STA. 532+00 SOUTHBOUND

(13×10.5)+(11×10.5)+(10×2)+(15×7)+(10×2)=136.5+115.5+120 +105+20=397 S.F. Sign Area.
816 No. 7.4 Design No. 1 66' Span.

(a) Bracket Spacing 0'-6", 4@3'-0", 0'-6"
No. Brackets 5 Height 10'-6" Type Ya.
(b) Bracket Spacing 1'-4⅜", 3@2'-9⅜", 1'-4⅜".
No. Brackets 4 Height 12'-6" Type Ya.
(c) Bracket Spacing 1'-2⅝", 3-1⅜", 2@3'-1⅝", 3'-1⅜", 1'-2⅝"
No. Brackets 2 Height 7'-0", 3 Height 9'-0" Type Yb

82

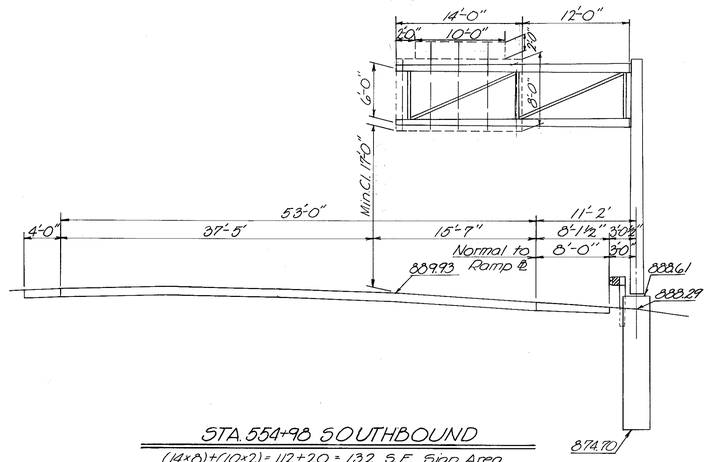


STA. 548+08 NORTHBOUND

(15×8)+(10×2)=120+20=140 S.F. Sign Area
816 No. 12.24 Design No. 6, 26' Arm.

Bracket Spacing 1'-2⅝", 3'-1⅜", 2@3'-1⅞", 3'-1⅜", 1'-2⅝"
No. Brackets 2 Height 8'-0", 3 Height 10'-0" Type Ys.

83

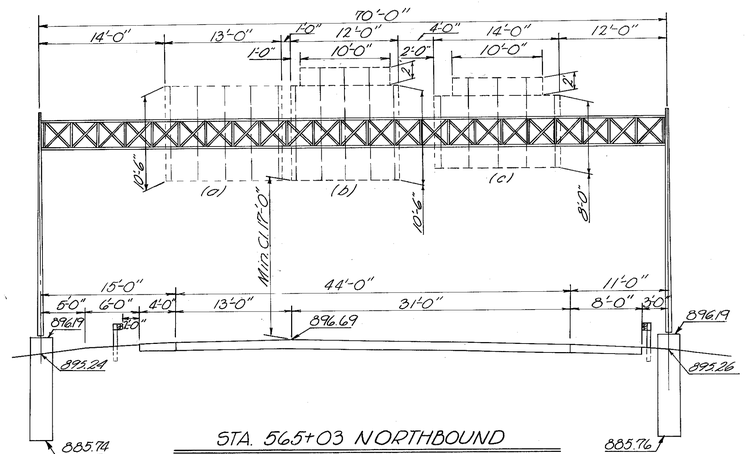


STA. 554+98 SOUTHBOUND

(14×8)+(10×2)=112+20=132 S.F. Sign Area.
816 No. 12.24 Design No. 6 26' Arm.

Bracket Spacing 0'-8⅝", 3'-1⅜", 2@3'-1⅞", 3'-1⅜", 0'-8⅝"
No. Brackets 2 Height 8'-0", 3 Height 10'-0" Ys.

84

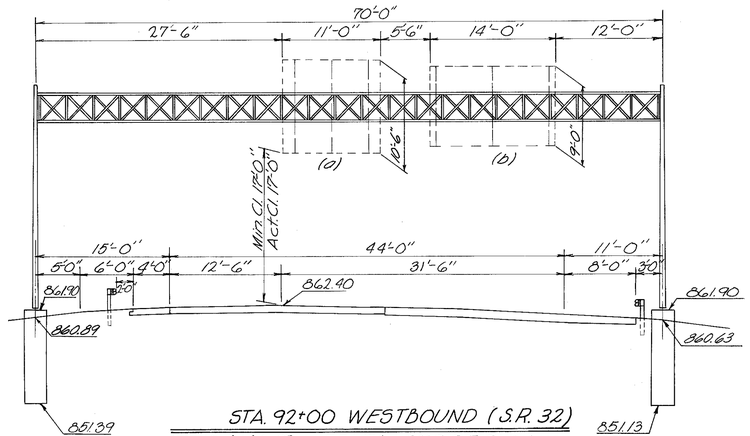


STA. 565+03 NORTHBOUND

(13×10.5)+(12×10.5)+(10×2)+(14×8)+(10×2)=136.5+126+20=414 S.F. Sign Area.
816 No. 7.5 Design No. 1 70' Span.

(a) Bracket Spacing 0'-6", 4@3'-0", 0'-6"
No. Brackets 5 Height 10'-6" Type Ya.
(b) Bracket Spacing 0'-6" 4@2'-9", 0'-6"
No. Brackets 2 Height 10'-6", 3 Height 12'-6" Type Ya.
(C) Bracket Spacing 0'-8⅝", 3'-1⅜" 2@3'-1⅝", 3'-1⅜" 0'-8⅝"
No. Brackets 2 Height 10'-6", 3 Height 12'-6" Type Ya.

87

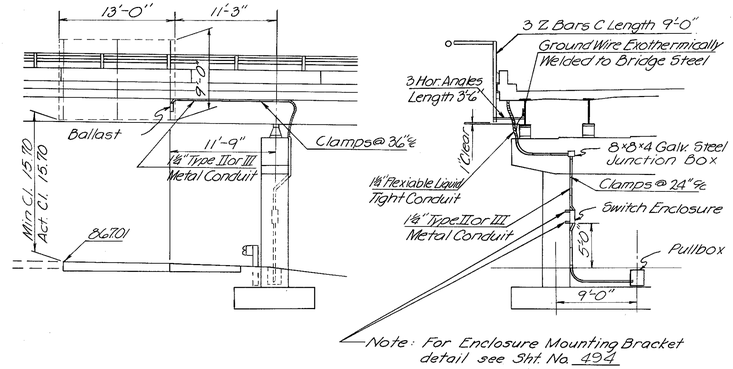


STA. 92+00 WESTBOUND (S.R. 32)

(11×10.5)+(14×9)=115.5+126=241.5 S.F. Sign Area
816 No. 7.4 Design No. 1 70' Span.

(a) Bracket Spacing 1'-4⅜", 4'-1⅝", 4'-1⅜" 1'-4⅛".
No. Brackets 3 Height 10'-6" Type Ya.
(D) Bracket Spacing 0'-8⅝" 2@ 6'-3⅜", 0'-8⅝"
No. Brackets 3 Height 9'-0" Type Ya.

88



STA. 80+04 WESTBOUND (S.R. 32)

816 Special

Bracket Spacing 0'-6", 2@6'-0", 0'-6"
No. Brackets 1 (2 Bar C) 3 Height 9'-0"
No. Horizontal Angles 3 Length 3'-6"

Calc. J.R. 11/17/69
Ckd. A.B. 12/20/69

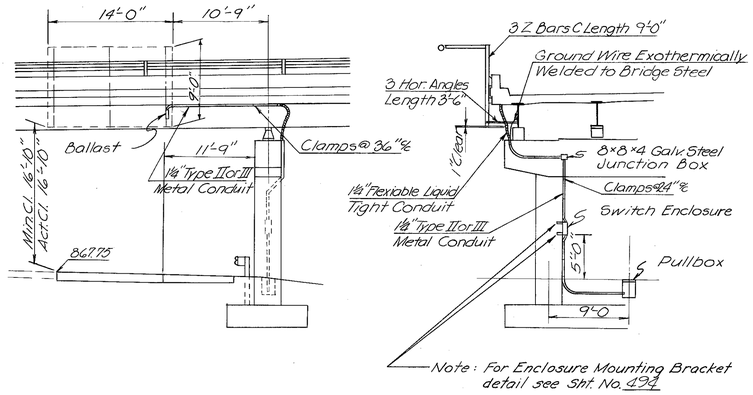
SIGNING DETAILS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

493
698

CLERMONT COUNTY
CLE. 275-6.68

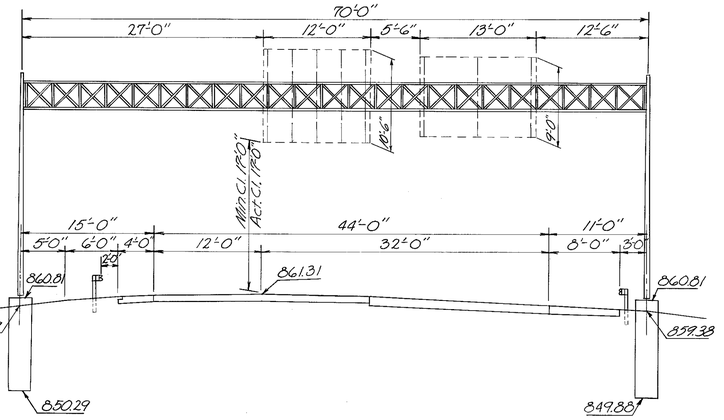
89



STA. 78+21 EASTBOUND (S.R.32)

816 Special
Bracket Spacing 0'-6", 2 @ 6'-0", 0'-6"
No. Brackets (Z Bar C) 3 Height 9'-0"
No. Horizontal Angles 3 Length 3'-6"

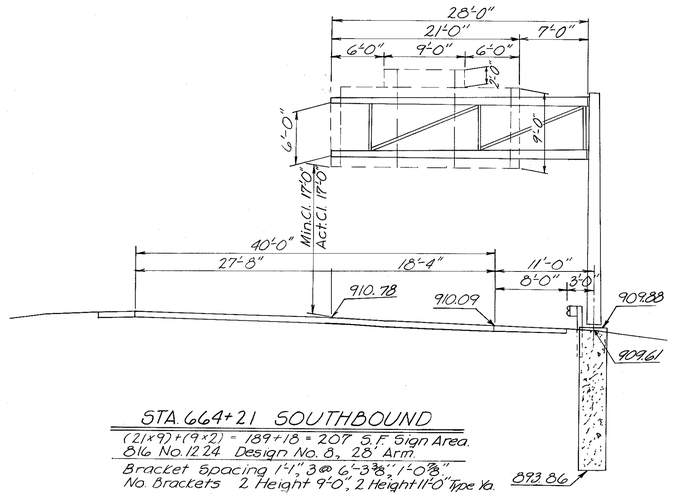
90



STA. 64+58 EASTBOUND (S.R.32)

(12×10.5)+(13×9) = 126+117 = 243 S.F. Sign Area
816 No. 7.4 Design No. 1 70' Span
(a) Bracket Spacing 0'-6", 4 @ 2'-9", 0'-6"
No. Brackets 5 Height 10'-6" Type Ya.
(b) Bracket Spacing 0'-6", 2 @ 6'-0", 0'-6"
No. Brackets 3 Height 9'-0" Type Ya.

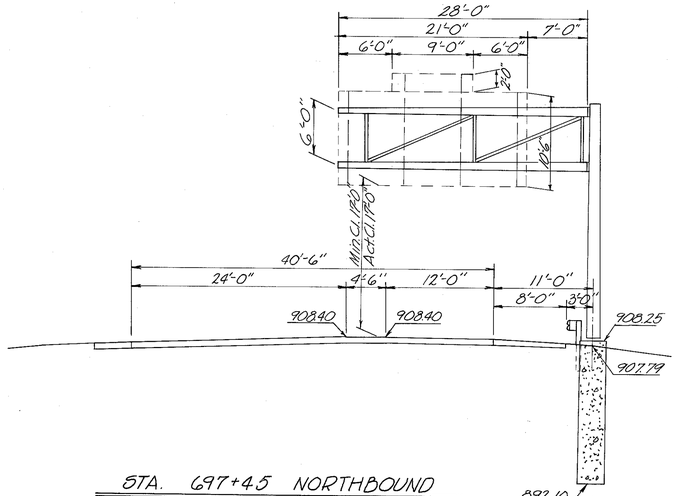
97



STA. 664+21 SOUTHBOUND

(21×9)+(9×2) = 189+18 = 207 S.F. Sign Area.
816 No. 12.24 Design No. 8, 28' Arm.
Bracket Spacing 1'-1", 3 @ 6'-3⅜", 1'-0⅞"
No. Brackets 2 Height 9'-0", 2 Height 11'-0" Type Ya.

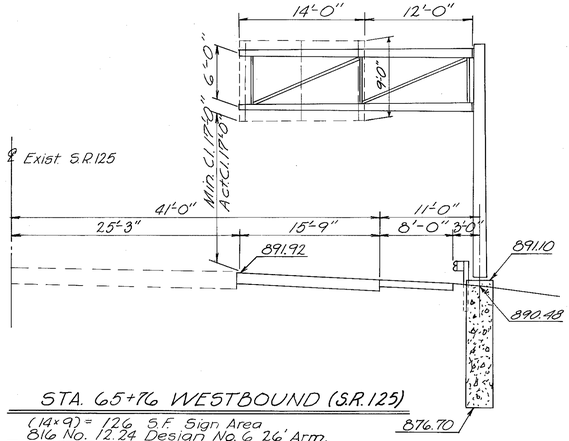
98



STA. 697+45 NORTHBOUND

(21×10.5)+(9×2) = 220.5+18 = 238.5 S.F. Sign Area.
816 No. 12.24 Design No. 8 28' Arm.
Bracket Spacing 1'-1", 3 @ 6'-3⅜", 1'-0⅞"
No. Brackets 2 Height 10'-6", 2 Height 12'-6" Type Ys

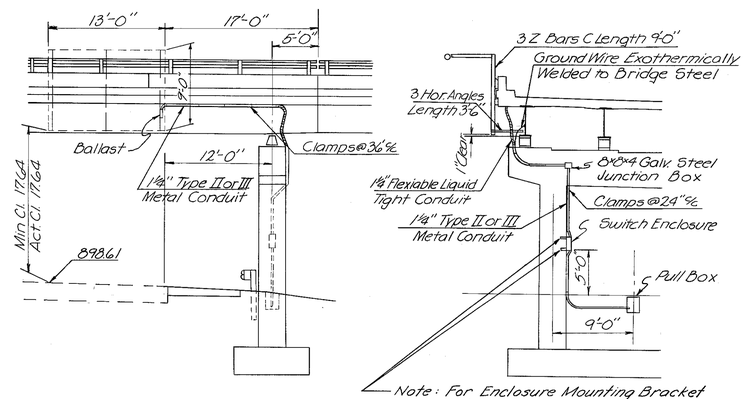
100



STA. 65+76 WESTBOUND (S.R.125)

(14×9) = 126 S.F. Sign Area
816 No. 12.24 Design No. 6 26' Arm.
Bracket Spacing 0'-8⅜", 2 @ 6'-3⅜", 0'-8⅜".
No. Brackets 3 Height 9'-0" Type Ys

101



STA. 58+24 WESTBOUND (S.R.125)

816 Special
Bracket Spacing 0'-6", 2 @, 6'-0" 0'-6"
No. Brackets (Z Bar C) 3 Height 9'-0"
No. Horizontal Angles 3 Length 3'-6"

Calc. J.R. 11/18/69
Ckd. A.B. 12/20/69

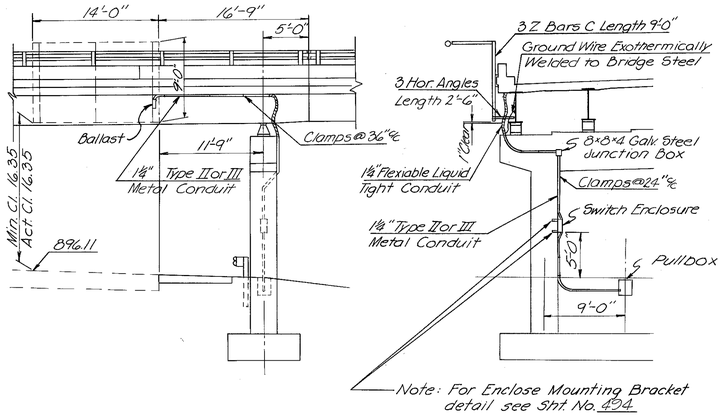
SIGNING DETAILS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

494
G38

CLERMONT COUNTY
CLE. 275-6.68

102

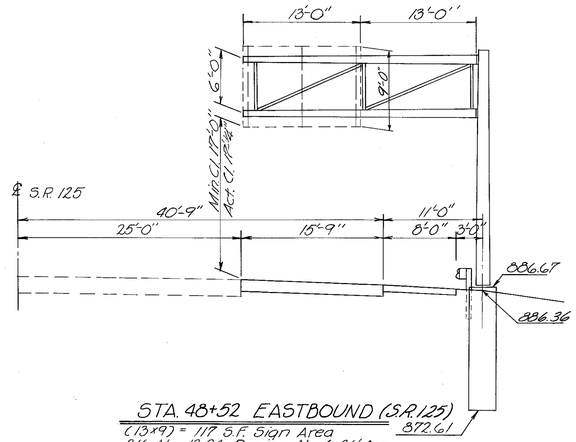


STA. 56+24 EASTBOUND (S.R.125)

816 Special

Bracket Spacing 0'-8⅜", 2@ 6'-3⅜", 0'-8⅜".
No. Brackets (2 Bar "C") 3 Height 9'-0"
No. Horizontal Angles 3 Length 2'-6".

103

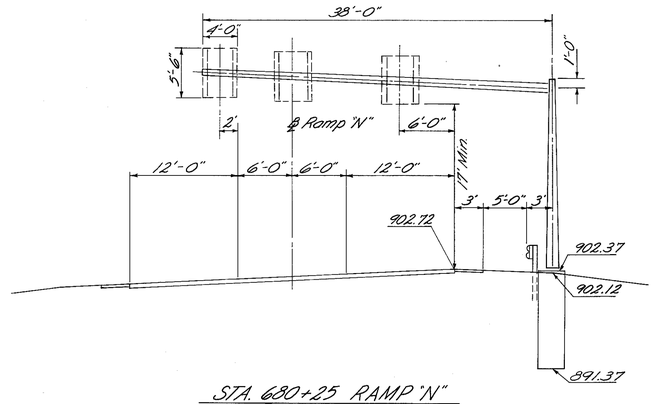


STA. 48+52 EASTBOUND (S.R.125)

(13x9) = 117 S.F. Sign Area
816 No. 12.24 Design No. 6.26' Arm.

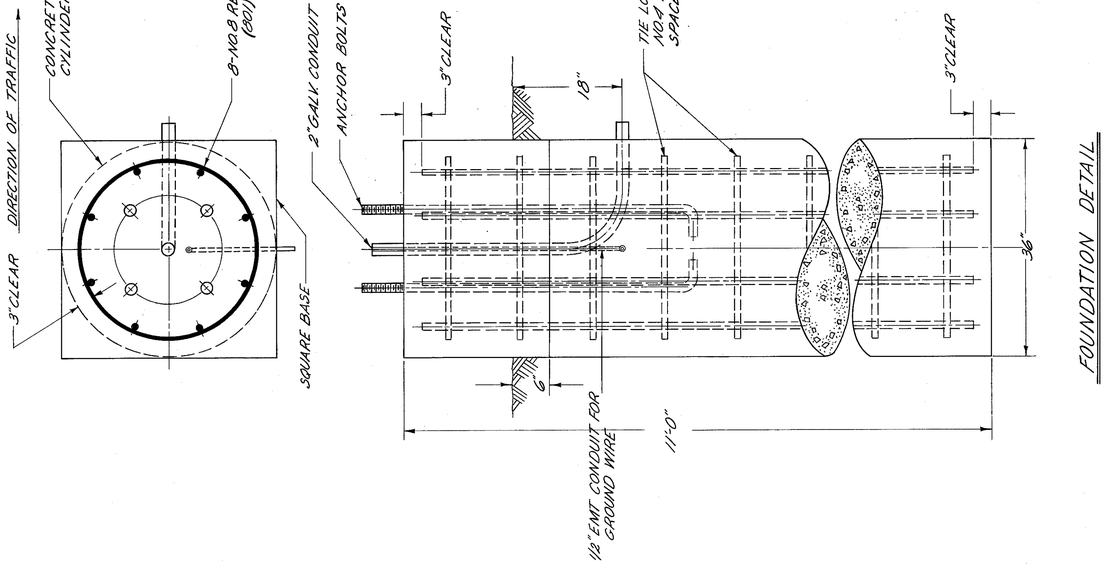
Bracket Spacing 0'-6", 2@ 6'-0", 0'-6"
No. Brackets 3 Height 9'-0" Type Vs.

104

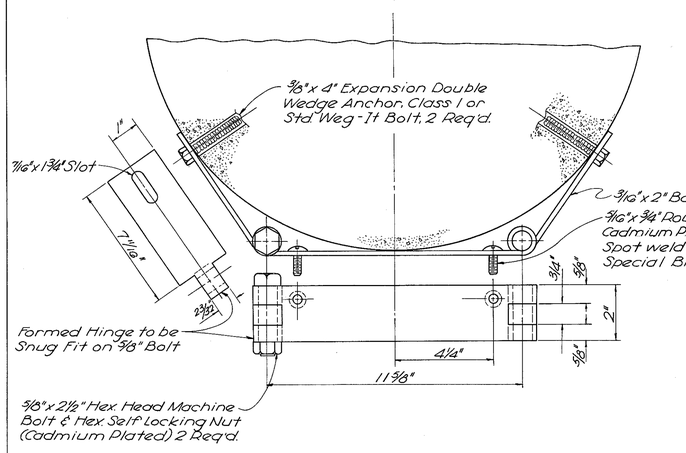


STA. 680+25 RAMP "N"

(4x5.5)+(4x5.5)+(4x5.5) = 22+22+22 = 66 S.F. Sign Area
816 Monolever
Bracket Spacing 0'-6", 3'-0", 0'-6"
No. Brackets 2 Each



FOUNDATION DETAIL



ENCLOSURE MOUNTING BRACKET

Calc. J.R. 11/19/69
Ckd. A.B. 12/20/69

MISCELLANEOUS & SIGNING DETAILS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

495
G38

CLERMONT COUNTY
CLE. 275-6.68

OVERHEAD SIGN QUANTITIES

SIGN REFERENCE NO.	STATION & LOCATION	816 SIGN SUPPORT QUANTITIES: 7.1 Design #1 46'-0" Span	7.1 Design #1 70'-0" Span	7.1 Design #1 70'-0" Span	7.5 Design #1 70'-0" Span	12.24 Design #6 26'-0" Arm	12.24 Design #8 28'-0 Arm	Overpass Structure Mounted Sign Support	Design Manoeuver	Foundation Concrete	625 ELECTRICAL QUANTITIES: Ballast Type A	Ballast Type C	Ballast Type D	Fixture & Lamp Size & Type: 51" Fixture With HO Lamps	Fixture & Lamp Size & Type: 72" Fixture With SHO Lamps	Fixture & Lamp Size & Type: 96" Fixture With SHO Lamps	Transformer Type III	Transformer Type IV	Transformer Type V	Transformer Type VI	Sign Wiring Complete	Sign Service	30 Ampere Fusible Disconnect Switch With 4" Enclosure	30 Ampere Fusible Disconnect Switch With 6" Enclosure	Ground Rod	Structure Mounted Sign Wiring Complete	Structure Mounted Sign Service	Enclosure Mounting Bracket	815 SIGNS: Sign Erection, Flat Sheet Overlay Type	Sign Erection Extru. Sheet Type	Sign Erection Plat Sheet Type	606 GUARD RAIL: Type S	Approach End Assembly	Anchor Assembly	Bridge Terminal Assembly
		Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	C.Y.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	S.F.	S.F.	S.F.	L.F.	Ea.	Ea.	Ea.
81	A												1		2													1235	1365					
81	B											1				1													1355					
81	C 532+00 S.B.	1								9.3			1		2				1		3	1			1	1			1250		150	1	1	
82	548+08 N.B.					1				3.7			1		2			1			1	1	1		1				1400		1625		1	1
83	554+98 S.B.					1				3.7			1		2			1			1	1	1		1				1320		3125		1	1
84	A												1		2													1020	1365					
84	B												1		2														1460					
84	C 565+03 N.B.			1						9.4			1		2					1	3	1			1	1			1320		150			
87	A S.R. 32											1				1												380	1155					
87	B 92+00 W.B.		1							9.6			1		2			1			2	1			1	1			1260		300	2	2	
88	Bridge No. CLE-275-1042 Lt.							1					1		2			1						1			1	2	570	1170					
89	Bridge No. CLE-275-1042 Rt.							1					1		2			1						1			1	2		1260					
90	A S.R. 32												1		2														1260					
90	B 64+38 E.B.		1							9.7			1		2				1		2	1			1	1			570	1170		300	2	2	
97	664+21 S.B.						1			4.2		1	1		3			1			2	1			1	1				2070		150	1	1	
98	697+45 N.B.						1			4.3		1	1		3			1			2	1			1	1				2385					
100	S.R. 125 65+76 W.B.					1				3.8			1		2			1			1	1	1			1				1260		150	1	1	
101	Bridge No. CLE-275-1291 Lt.							1					1		2			1						1			1	2	840	1170					
102	Bridge No. CLE-275-1291 Rt.							1					1		2			1						1			1	2		1260					
103	S.R. 125 48+52 E.B.					1				3.7			1		2			1				1	1	1		1			840	1170		150	1	1	
104	680+25 Ramp "N"								1	2.9	3			3				1				3	1	1		1					660				
	TOTAL	1	2	1	4	2	4	1	643	3	4	18	3	38	2	9	3	2	1	21	11	9	6	11	4	4	8	5455	27425	660	825	8	10	2

Quantities Carried to Sheet No. 25

Calc. J.R. 12/20/69
Ck'd. A.B. 12/20/69

OVERHEAD SIGN QUANTITIES

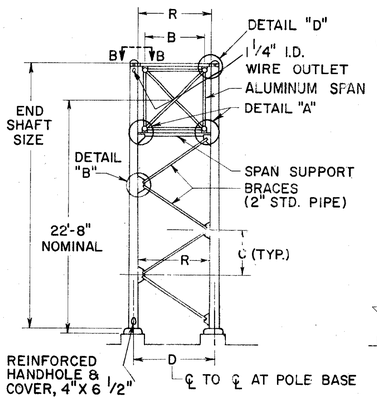
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

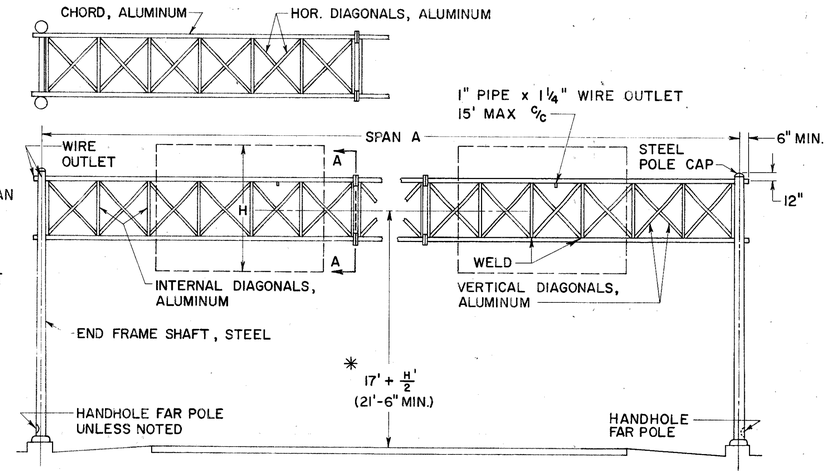
496/638

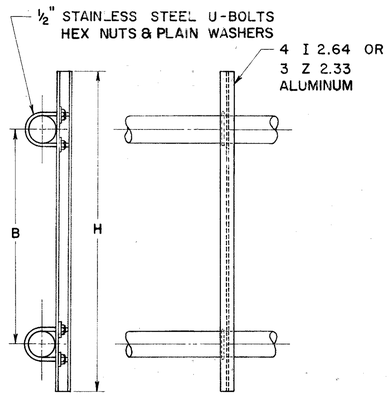
Fed 476

496-596

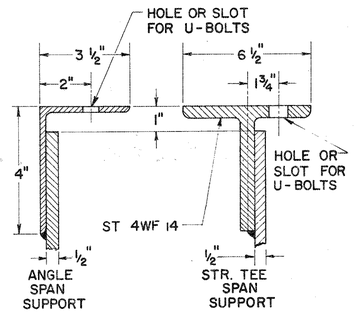
DIRECTION OF TRAFFIC







SIGN BRACKET



SECTION D-D

NOTES

MATERIALS

THE OVERHEAD SPAN TRUSS SHALL BE ALUMINUM AND THE END FRAMES SHALL BE STEEL.

SPAN TRUSS AND END FRAMES, INCLUDING HARDWARE, SHALL BE IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 816 UNLESS OTHERWISE NOTED.

STEEL POLE BASES AND GUSSETS SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A-373.

AFTER FABRICATION THE TAPERED POLES SHALL HAVE A MINIMUM YIELD STRENGTH OF 48,000 PSI.

FABRICATION

THE ENTIRE STEEL END FRAME SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SEC. 711.02.

MAXIMUM LENGTH OF SPAN SECTIONS IS 30 FT.

ERECTION

USE A MINIMUM OF 1" CAMBER IN SPAN TRUSS MEMBER FOR A 50' SPAN; ADD 1/4" OF CAMBER FOR EACH 5' OF INCREASE IN SPAN OVER 50'.

PAYMENT

PAYMENT FOR THE GALVANIZED CONDUIT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OVERHEAD SIGN SUPPORTS.

SOILS

THE FOUNDATION DETAILS SHOWN ARE FOR AVERAGE SOIL CONDITIONS (MEDIUM CLAY, CEMENTED SAND AND GRAVEL, SANDY CLAY, OR STIFF CLAY).

FOR POOR SOIL CONDITIONS, INCREASE "D" MIN. BY: 50% IN DRY OR WET SAND, 60% IN SILTY CLAY, 100% IN SOFT CLAY, AND FROM 75% TO 150% IN WET SILT, DEPENDING ON QUICKSAND ACTION.

REINFORCING STEEL

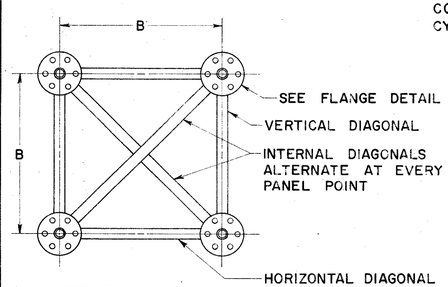
COST OF REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 816 CONCRETE FOR SIGN SUPPORT FOUNDATIONS. BAR SIZE IS INDICATED IN THE BAR MARK. THE FIRST DIGIT WHERE THREE DIGITS ARE USED AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATE THE BAR SIZE NUMBER.

*FOUNDATION ELEVATION

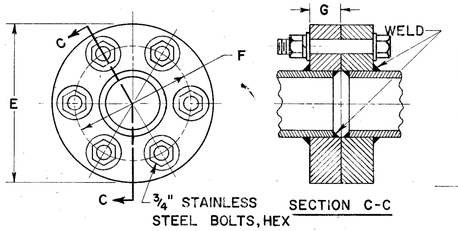
ELEVATION OF TOPS OF FOUNDATIONS SHALL BE BUILT UP SO THAT 17' CLEARANCE IS MAINTAINED OVER THE ENTIRE WIDTH OF THE PAVEMENT AND SHOULDERS.

DESIGN

THE DESIGN OF OVERHEAD SUPPORTS IS IN ACCORDANCE WITH A.A.S.H.O. SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, ADOPTED JUNE 12, 1961.

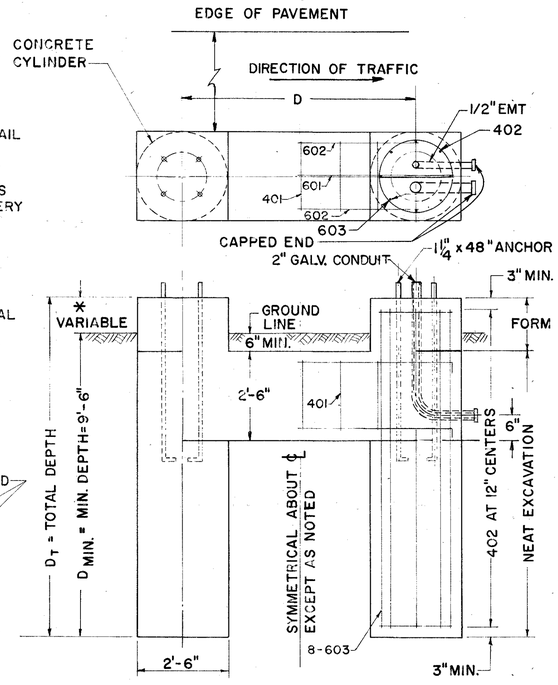


SECTION A-A



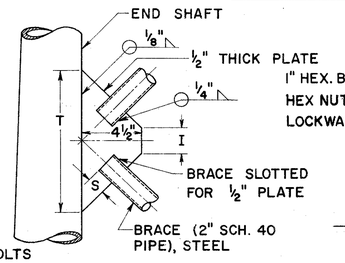
CAST FLANGE, B-26 ALLOY SG 70A-T7 (356-T7)

FLANGE DETAIL

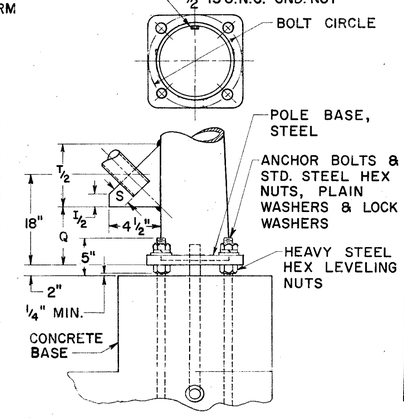


FOUNDATION DETAIL

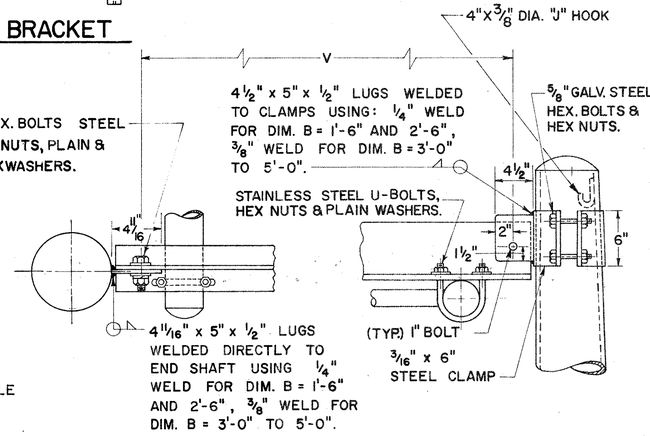
(RIGHT HAND SHOWN — LEFT HAND OPPOSITE)



DETAIL "B"



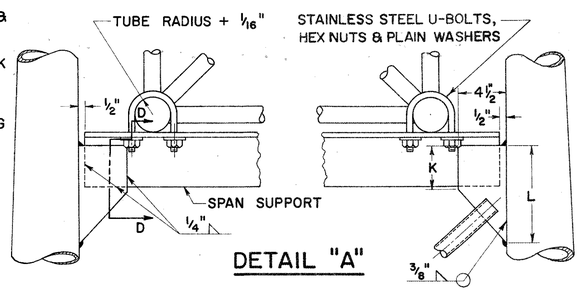
POLE BASE DETAIL



VIEW B-B

DETAIL "D"

UPPER SPAN SUPPORT (ALTERNATE METHODS)

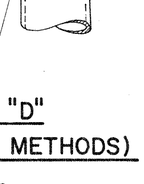


DETAIL "A"

LOWER SPAN SUPPORT

DESIGN NO.	SPAN A	B	C	D	E	END SHAFT	BRACE LENGTH	F	G	I	K	L	P	Q	R	S	T	U BOLTS	V	BOLT CIRCLE	SPAN SUPPORT SECTION D-D	CHORDS	HORIZONTAL AND INTERNAL DIAGONAL	VERTICAL DIAGONAL
1	50' thru 75'	3'-0"	4'-11 3/4"	4'-5"	9 1/4"	8"x4.5"x25'-0", 3 GA.	5'-10 13/16"	7 7/16"	1 3/8"	3 1/2"	4 3/4"	8"	12"	6 5/8"	3'-9"	1 1/2"	10"	5/8"	3'-3 5/8"	11"	SPLIT TEE 3'-8"	4 3/4" x .188"	1.900" x .145"	1.660" x .140"
2	76' thru 85'	4'-0"	4'-10 1/4"	5'-7"	9 1/4"	8"X6.22"x25'-6" 3 GA.	6'-7 1/8"	7 7/16"	1 3/8"	5/8"	4 3/8"	7 3/4"	12'	6 1/4"	4'-10"	1 1/2"	9 1/2"	5/8"	4'-4 5/8"	11"	SPLIT TEE 4'-10"	4 3/4" x .188"	2" x .188"	1.900" x .145"
3	86' thru 90'	4'-0"	4'-10 1/4"	5'-7"	11"	8"X6.22"x25'-6" 3 GA.	6'-7 1/8"	8 1/2"	1 1/2"	5/8"	4 3/8"	7 3/4"	42"	6 1/4"	4'-10"	1 1/2"	9 1/2"	5/8"	4'-4 5/8"	11"	SPLIT TEE 4'-10"	5 1/2" x .250"	2" x .188"	1.900" x .145"
4	91' thru 110'	5'-0"	4'-8 1/2"	6'-7"	11"	8"X6.18"x26'-0" 3 GA.	7'-3 1/4"	8 1/2"	1 1/2"	—	3 1/2"	7 3/4"	12"	7 1/4"	5'-10"	1 3/4"	11 1/4"	3/4"	5'-4 5/8"	11"	SPLIT TEE 5'-10"	5 1/2" x .250"	2 1/2" x .188"	2 1/2" x .188"

REINFORCEMENT SCHEDULE			
MARK	NO.	LENGTH	TYPE
401	12" C/C	8'-6"	102
402	12" C/C	7'-6"	103
601	4	D+ 4'-0"	101
602	8	D+ 2'-0"	101
603	32	D1 - 6"	STR.



400 SQ. FT. SIGN AREA

OVERHEAD SIGN SUPPORT. 816 NO. 7.4

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

OVERHEAD SIGN SUPPORTS

816 No. 7.4

DATE 5-2-62, 7-25-62, 5-6-64, 6-20-66

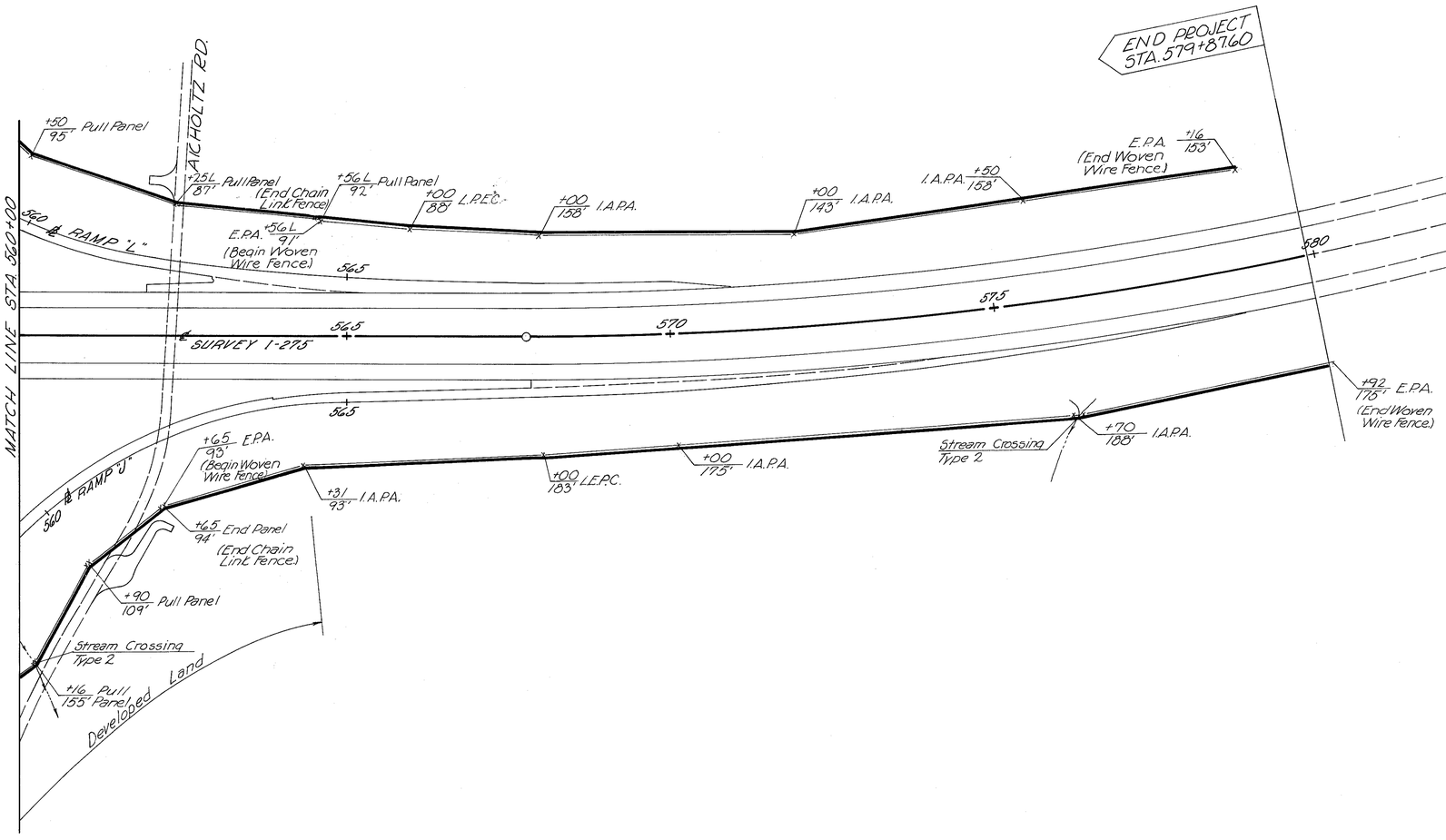
APPROVED Robert E. Comer
ENGINEER OF TRAFFIC

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

597
638

CLERMONT COUNTY
CLE-275 6.68

477 Rod
497-638
Plus Soil Profiles



FENCING PLAN
STA. 560+00 ~ STA. 579+87.60

This improvement has been declared a Limited Access Highway from Sta 353+00 to Sta 579+87.60 by action of the Director of Highways and recorded in Volume 45 Page 1047 of the Directors Journal pursuant to law.

LOCATION SURVEY PLAT

CIRCLE FREEWAY
INTERSTATE ROUTE 275 SEC. 6.68
CLERMONT COUNTY
UNION TOWNSHIP

MILITARY SURVEYS 674, 1935, 2721, 2434, 1138, 1136, 666, 1115

1967

0 200 400 800 1200
SCALE IN FEET

Received _____ 19____
Recorded _____ 19____
Book _____ Page _____
Clermont County Recorder

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

598/638

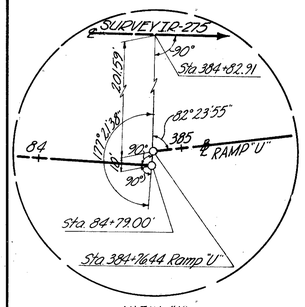
CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS

1/41

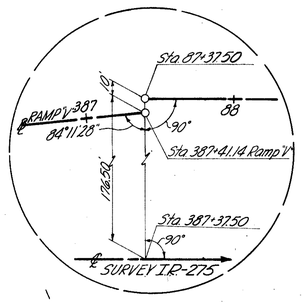
Signed _____
I.P. Basler
Date _____ Division Deputy Director

I hereby certify that this Plat is a true delineation of a survey made for the Ohio Department of Highways in 1967 by Harry Balke Engineers.

John P. Robinson Date Dec. 14, 1968
CHIEF ENGINEER
REG. SURVEYOR NO. 4515



VIEW "A"



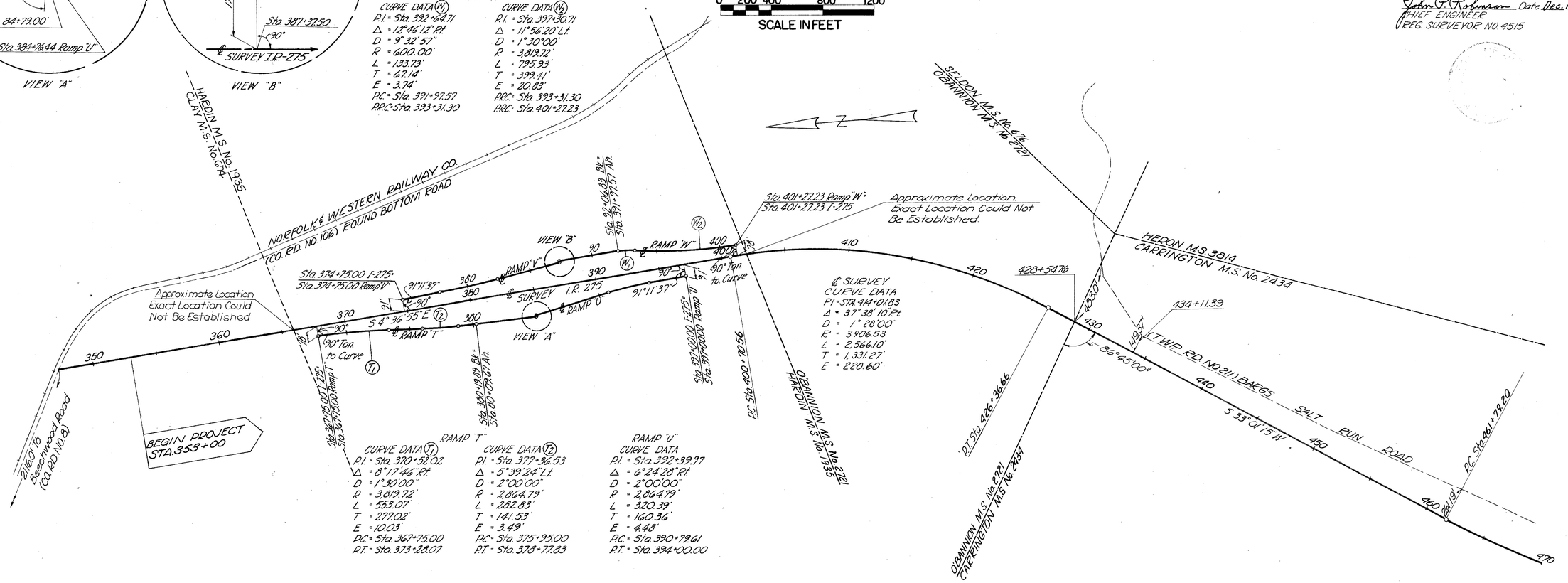
VIEW "B"

RAMP "V"
CURVE DATA
P.I. = Sta 380+05.89
△ = 4°36'55" Lt.
D = 1°00'00"
R = 5,729.58'
L = 461.53'
T = 230.89'
E = 4.65'
P.C. = Sta 377+75.00
P.T. = Sta 382+36.53

RAMP "W"

CURVE DATA (N1)
P.I. = Sta 392+44.71
△ = 12°46'12" Rt.
D = 9°32'57"
R = 600.00'
L = 133.73'
T = 67.14'
E = 3.74'
P.C. = Sta 391+97.57
P.R.C. = Sta 393+31.30

CURVE DATA (N2)
P.I. = Sta 397+30.71
△ = 11°56'20" Lt.
D = 1°30'00"
R = 3819.72'
L = 795.93'
T = 399.41'
E = 20.83'
P.R.C. = Sta 393+31.30
P.R.C. = Sta 401+27.23



℄ SURVEY
CURVE DATA
P.I. = STA 414+01.83
△ = 37°38'10" Rt.
D = 1°28'00"
R = 3906.53'
L = 2,566.10'
T = 1,331.27'
E = 220.60'

RAMP "T"

CURVE DATA (T1)
P.I. = Sta 370+52.02
△ = 8°17'46" Rt.
D = 1°30'00"
R = 3819.72'
L = 553.07'
T = 277.02'
E = 10.03'
P.C. = Sta 367+75.00
P.T. = Sta 373+28.07

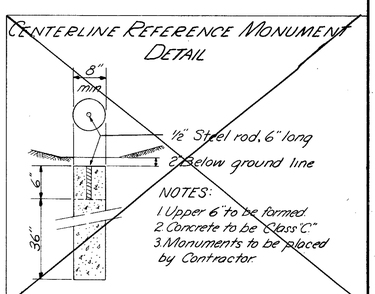
CURVE DATA (T2)
P.I. = Sta 377+36.53
△ = 5°39'24" Lt.
D = 2°00'00"
R = 2,864.79'
L = 282.83'
T = 141.53'
E = 3.49'
P.C. = Sta 375+95.00
P.T. = Sta 378+77.83

RAMP "U"
CURVE DATA
P.I. = Sta 392+39.97
△ = 6°24'28" Rt.
D = 2°00'00"
R = 2,864.79'
L = 320.39'
T = 160.36'
E = 4.48'
P.C. = Sta 390+79.61
P.T. = Sta 394+00.00

LOCATION OF CENTERLINE REFERENCE MONUMENTS

STATION	LOCATION	STATION	LOCATION	STATION	LOCATION
354+00	On Centerline	435+00	On Centerline	517+50.50 P.C.	On Centerline
359+00	" "	440+00	" "	523+50	" "
365+00	" "	445+00	" "	529+50	" "
370+00	" "	450+00	" "	535+00	" "
375+00	" "	456+00	" "	541+00	" "
380+00	" "	461+79.20 P.C.	" "	546+95.44 P.T.	" "
385+00	" "	465+00	" "	552+00	" "
390+00	" "	470+00	" "	557+00	" "
395+00	" "	475+00	" "	562+00	" "
400+70.56 P.C.	" "	480+00	" "	567+77.91 P.C.	" "
405+00	" "	485+04.76 P.T.	Rt 45.33' Lt., 33' Rt	574+00	On Centerline
410+00	" "	490+00	On Centerline		
415+00	" "	495+00	" "	REST AREAS	
421+00	" "	500+00	" "	375+51.24	77°39'17" Rt. 220.46' & 717.78'
426+36.66 P.T.	" "	506+00	" "	384+52.01	90° Lt. 240' & 700'
430+00	On Centerline	512+00	On Centerline	387+68.58	90° Rt. 260' & 700'
				394+95.56	102°31'45" Lt. 256.10' & 717.08'

CENTERLINE REFERENCE MONUMENT DETAIL



1/41

LOCATION SURVEY PLAT SHEET 1 OF 3

This improvement has been declared a Limited Access Highway from Sta 353+00 to Sta 579+87.60 by action of the Director of Highways and recorded in Volume 45 Page 1047 of the Directors Journal pursuant to law.

LOCATION SURVEY PLAT

CIRCLE FREEWAY
INTERSTATE ROUTE 275 SEC. 6.68
CLERMONT COUNTY
UNION TOWNSHIP

MILITARY SURVEYS 674, 1935, 2721, 2434, 1138, 1136, 666, 1115

1967

0 200 400 800 1200
SCALE IN FEET

Received _____ 19____
Recorded _____ 19____
Book _____ Page _____
_____
Clermont County Recorder

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

579
638

CLERMONT COUNTY
CLE 275-6.68
LIMITED ACCESS
R/W PLANS

2
41

Signed _____
I.P. Basler
Date _____ Division Deputy Director

I hereby certify that this Plat is a true delineation of a survey made for the Ohio Department of Highways in 1967 by Harry Baltke Engineers.

John T. Rohmer Date Dec. 11, 1968
CHIEF ENGINEER
REG. SURVEYOR NO. 4515

RELOCATED BARGS SALT RUN RD.

CURVE DATA (1)
P.I. = Sta. 41+11.74
Δ = 53° 42' 00" Lt.
D = 23° 00' 00"
R = 249.11'
L = 233.48'
T = 126.11'
E = 30.10'
P.C. = Sta. 39+85.63
P.T. = Sta. 42+19.11

CURVE DATA (2)
P.I. = Sta. 47+21.11
Δ = 39° 03' 00" Rt.
D = 26° 00' 00"
R = 220.37'
L = 150.19'
T = 78.15'
E = 13.45'
P.C. = Sta. 46+42.96
P.T. = Sta. 47+93.15

CURVE DATA (3)
P.I. = Sta. 52+92.69
Δ = 47° 45' 00" Lt.
D = 28° 00' 00"
R = 204.63'
L = 170.53'
T = 90.57'
E = 19.15
P.C. = Sta. 52+02.12
P.T. = Sta. 53+72.65

CINCINNATI-BATAVIA PIKE

CURVE DATA
P.I. = Sta. 45+06.95
Δ = 13° 49' 00" Rt.
D = 4° 30' 00"
R = 1273.24'
L = 307.04'
T = 154.27'
E = 9.31'
P.C. = Sta. 43+52.68
P.T. = Sta. 46+59.72

RELOCATED AICHOLTZ ROAD

CURVE DATA (1)
P.I. = Sta. 31+03.50
Δ = 98° 08' 45" Rt.
D = 38° 11' 50"
R = 150.00'
L = 256.95'
T = 173.00'
E = 78.98'
P.C. = Sta. 29+30.50
P.T. = Sta. 31+87.45

CURVE DATA (2)
P.I. = Sta. 44+88.68
Δ = 32° 15' 23" Lt.
D = 10° 00' 00"
R = 572.96'
L = 322.56'
T = 165.68'
E = 23.47'
P.C. = Sta. 43+23.00
P.T. = Sta. 46+45.56

AICHOLTZ ROAD CONNECTION

CURVE DATA
P.I. = Sta 11+23.00
Δ = 44° 47' 33" Rt.
D = 71° 37' 11"
R = 80.00'
L = 62.54'
T = 32.97'
E = 6.53'
P.C. = Sta 10+90.03
P.T. = Sta 11+52.57

RAMP "H"

CURVE DATA (H)
P.I. = Sta. 541+32.27
Δ = 39° 31' 06" Lt.
D = 8° 00' 00"
R = 716.20'
L = 493.98'
T = 257.27'
E = 44.81'
P.C. = Sta 538+75.00
P.T. = Sta. 543+68.98

CURVE DATA (H2)
P.I. = Sta. 551+51.22
Δ = 35° 10' 05" Lt.
D = 8° 00' 00"
R = 716.20'
L = 439.60'
T = 226.97'
E = 35.11'
P.C. = Sta. 549+24.25
P.C.C. = Sta. 553+69.85

CURVE DATA (H3)
P.I. = Sta. 555+42.26
Δ = 14° 11' 59" Lt.
D = 4° 00' 00"
R = 1,432.39'
L = 354.99'
T = 178.41'
E = 11.07'
P.C.C. = Sta. 553+63.85
P.T. = Sta. 557+18.84

RAMP "L"

CURVE DATA (L1)
P.I. = Sta. 545+23.48
Δ = 8° 00' 00" Lt.
D = 4° 00' 00"
R = 1,432.39'
L = 200.00'
T = 100.16'
E = 3.50'
P.C. = Sta. 544+23.32
P.C.C. = Sta. 546+23.32

CURVE DATA (L2)
P.I. = Sta. 548+38.42
Δ = 33° 26' 03" Lt.
D = 8° 00' 00"
R = 716.20'
L = 417.93'
T = 215.10'
E = 31.60'
P.C.C. = Sta. 546+23.32
P.T. = Sta. 550+41.25

CURVE DATA (L3)
P.I. = Sta. 559+93.57
Δ = 33° 31' 45" Lt.
D = 8° 00' 00"
R = 716.20'
L = 419.11'
T = 215.75'
E = 31.79'
P.C. = Sta. 557+77.82
P.C.C. = Sta. 561+96.93

CURVE DATA (L4)
P.I. = Sta. 564+72.95
Δ = 8° 17' 46" Lt.
D = 1° 30' 00"
R = 3,819.72'
L = 553.07'
T = 277.02'
E = 10.03'
P.C.C. = Sta. 561+96.93
P.T. = Sta. 567+50.00

RAMP "J"

CURVE DATA (J1)
P.I. = Sta. 545+76.30
Δ = 14° 31' 30" Rt.
D = 4° 00' 00"
R = 1,432.39'
L = 363.13'
T = 182.54'
E = 11.58'
PCC = Sta. 543+93.76
PCC = Sta. 547+56.89

CURVE DATA (J2)
P.I. = Sta. 549+70.84
Δ = 34° 26' 13" Rt.
D = 8° 00' 00"
R = 716.20'
L = 430.46'
T = 221.95'
E = 33.60'
P.C.C. = Sta. 547+56.89
P.T. = Sta. 551+87.35

CURVE DATA (J3)
P.I. = Sta. 562+19.31
Δ = 45° 28' 28" Rt.
D = 8° 00' 00"
R = 716.20
L = 568.43'
T = 300.14'
E = 60.35'
P.C. = Sta. 559+19.17
P.T. = Sta. 564+87.60

RAMP "F"

CURVE DATA (F1)
P.I. = Sta. 535+00.08
Δ = 10° 58' 10" Rt.
D = 2° 00' 00"
R = 2,864.79'
L = 548.47'
T = 275.08'
E = 13.18'
P.C.C. = Sta. 532+25.00
P.C.C. = Sta. 537+73.47

CURVE DATA (F2)
P.I. = Sta. 539+83.65
Δ = 32° 42' 35" Rt.
D = 8° 00' 00"
R = 716.20'
L = 408.87'
T = 210.18'
E = 30.20'
P.C.C. = Sta. 537+73.47
P.T. = Sta. 541+82.34

CURVE DATA (F3)
P.I. = Sta. 545+65.27
Δ = 8° 52' 46" Lt.
D = 4° 30' 00"
R = 1,273.24'
L = 197.32'
T = 98.86'
E = 3.83'
P.C. = Sta. 544+66.41
P.T. = Sta. 546+63.73

CURVE DATA (F4)
P.I. = Sta. 551+84.96
Δ = 47° 19' 19" Rt.
D = 8° 00' 00"
R = 716.20'
L = 591.52'
T = 313.81'
E = 65.73'
P.C. = Sta. 548+71.15
P.C.C. = Sta. 554+62.67

CURVE DATA (F5)
P.I. = Sta. 555+62.83
Δ = 8° 00' 00" Rt.
D = 4° 00' 00"
R = 1,432.39'
L = 200.00'
T = 100.16'
E = 3.50'
PCC = Sta. 554+62.67
P.T. = Sta. 556+62.67

S.R. 32
CURVE DATA
P.I. = Sta. 60+98.64
Δ = 2° 11' 00" Rt.
D = 0° 20' 00"
R = 17,188.74
L = 655.00'
T = 327.54'
E = 3.12'
P.C. = Sta. 57+71.10
P.T. = Sta. 64+26.10

RUST LANE EXTENSION

CURVE DATA (1)
P.I. = Sta. 11+71.30
Δ = 48° 30' 00" Rt.
D = 21° 00' 00"
R = 272.84'
L = 230.95'
T = 122.90'
E = 26.40'
P.C. = Sta. 10+48.40
P.T. = Sta. 12+79.35

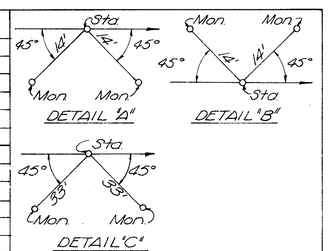
CURVE DATA (2)
P.I. = Sta. 15+79.07
Δ = 49° 13' 00" Lt.
D = 21° 00' 00"
R = 272.84'
L = 234.36'
T = 124.97'
E = 27.26'
P.C. = Sta. 14+54.10
P.T. = Sta. 16+88.46

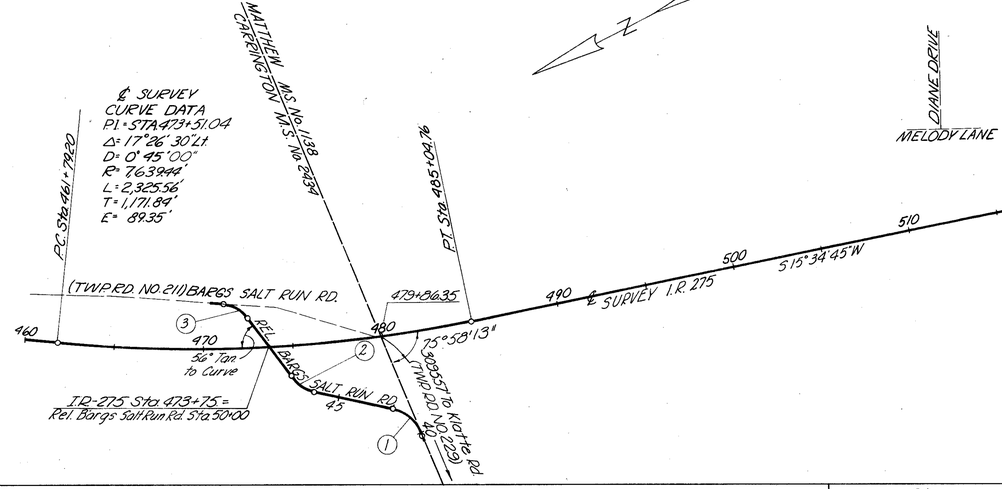
LOCATION OF CENTERLINE REFERENCE MONUMENTS

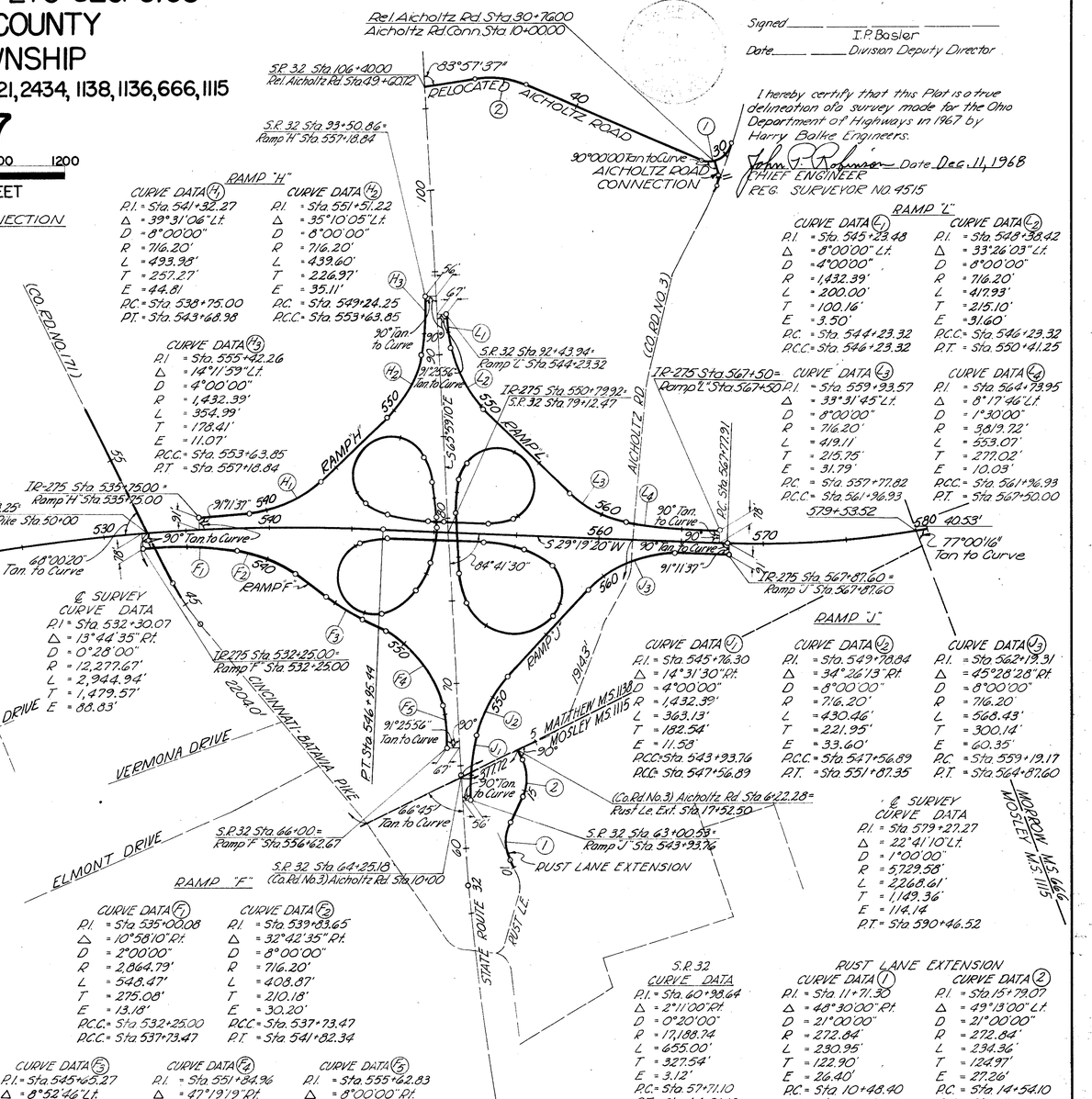
STATION	LOCATION
RAMP "F"	
532+2500 PCC.	DETAIL "A"
537+7347 PCC.	Rt & s 21' Lt., 7' Rt.
541+8234 PT.	Rt & s 20' Lt., 7' Rt.
544+6641 PC.	Rt & s 20' Lt., 7' Rt.
546+6373 PT.	DETAIL "A"
548+71.15 PC.	Rt & s 20' Lt., 7' Rt.
554+6267 PCC.	Rt & s 21' Lt. 7' Rt.
556+6267 PT.	DETAIL "A"
RAMP "H"	
538+7500 PC.	DETAIL "B"
543+6898 PT.	Rt & s 7' Lt. 20' Rt.
549+2425 PC.	Rt & s 7' Lt. 20' Rt.
553+6385 PCC.	Rt & s 7' Lt. 21' Rt.
557+18.84 P.T.	DETAIL "B"
RAMP "J"	
543+93.76 PCC.	DETAIL "A"
547+56.89 PCC.	Rt & s 21' Lt. 7' Rt.
551+87.35 PT	Rt & s 20' Lt., 7' Rt.
556+00	DETAIL "A"
559+19.17 PC.	Rt & s 20' Lt., 7' Rt.
564+87.60 PT.	DETAIL "A"

STATION	LOCATION
RAMP "L"	
544+23.32 PC.	DETAIL "B"
546+23.32 PCC.	Rt & s 7' Lt. 21' Rt.
550+41.25 PT.	Rt & s 7' Lt 20' Rt
554+00	DETAIL "B"
557+77.82 PC.	Rt & s 7' Lt. 20' Rt.
561+96.93 PCC.	Rt & s 7' Lt. 20' Rt.
567+50	DETAIL "B"
RELOCATED BARG'S SALT RUN ROAD	
39+85.63 PC.	Rt & s 21' Lt. 21' Rt.
42+19.11 PT.	Rt & s 21' Lt. 21' Rt.
46+42.96 PC.	Rt & s 21' Lt. 21' Rt.
47+93.15 PT.	Rt & s 21' Lt. 20' Rt.
52+02.12 PC.	Rt & s 20' Lt. 21' Rt.
53+72.65 PT.	Rt & s 21' Lt. 21' Rt.
CINCINNATI BATAVIA DIKE	
46+59.72 PT.	Rt & s 21' Lt. 21' Rt.
52+50	Rt & s 21' Lt. 21' Rt.
57+50	Rt & s 21' Lt 21' Rt.

STATION	LOCATION
RELOCATED AICHOLTZ ROAD	
30+7600	DETAIL "C"
31+87.45 PT.	Rt & s 21' Lt. 21' Rt.
37+50	Rt & s 21' Lt 21' Rt
43+23.00 PC.	Rt & s 21' Lt. 21' Rt
46+45.56 PT.	Rt & s 21' Lt., 21' Rt.
RUST LANE EXTENSION	
10+48.40 PC.	Rt & s 12' Lt. 21' Rt
12+79.35 PT.	Rt & s 13' Lt., 13' Rt
14+54.10 PC.	Rt & s 13' Lt. 13' Rt
16+88.46 PT.	Rt & s 13' Lt. 13' Rt
AICHOLTZ ROAD CONNECTION	
10+90.03 PC.	Rt & s 21' Lt., 21' Rt.



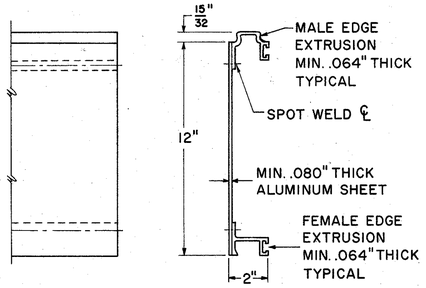




FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

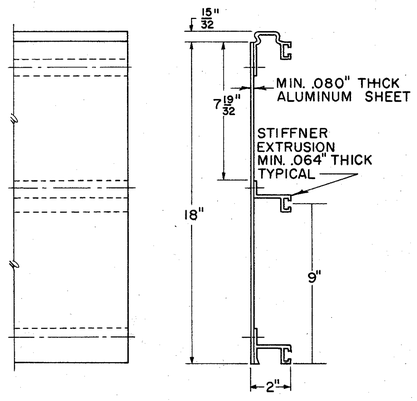
590
638

12" EXTRUSHEET PANEL



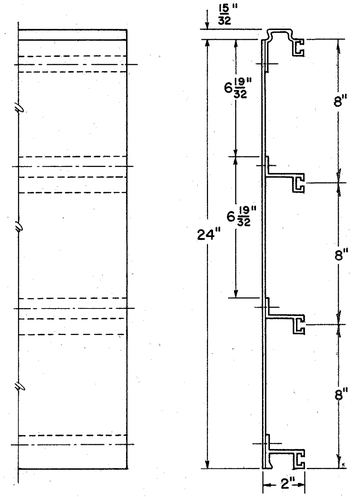
FRONT VIEW SIDE VIEW

18" EXTRUSHEET PANEL



FRONT VIEW SIDE VIEW

24" EXTRUSHEET PANEL



FRONT VIEW SIDE VIEW

NOTES:

EXTRUSHEET PANELS SHALL BE ALUMINUM; SPOT WELDING AND ALL MATERIALS SHALL CONFORM WITH SUPPLEMENTAL SPECIFICATION

COMBINATIONS OF 12", 18", AND 24" PANELS ARE USED TO ATTAIN REQUIRED SIGN HEIGHT.

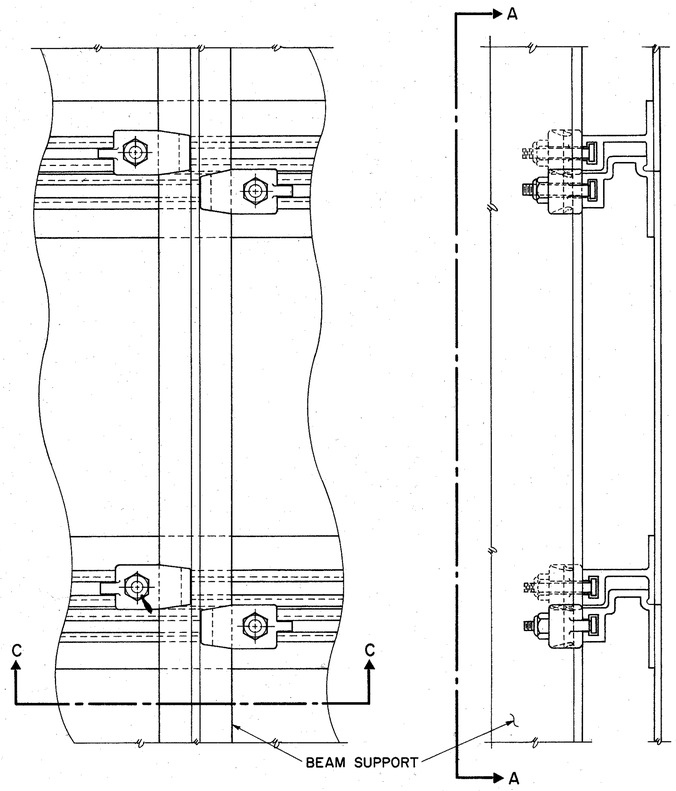
INDIVIDUAL PANELS SHALL BE THE SAME LENGTH AS THE HORIZONTAL LENGTH OF SIGN WITH NO SPLICES.

PANELS SHALL BE INTERLOCKED AND ERECTED WITH THE MALE EXTRUSION LOCATED AT THE TOP EDGE OF THE SIGN.

EXTRUSHEET PANELS SHALL BE FASTENED TO EACH VERTICAL SUPPORT MEMBER WITH MOUNTING CLIPS; ALTERNATELY AT EACH HORIZONTAL EXTRUSION; BOTH SIDES AT EACH JOINT, AND ON BOTH SIDES AT TOP AND BOTTOM EDGE OF SIGN.

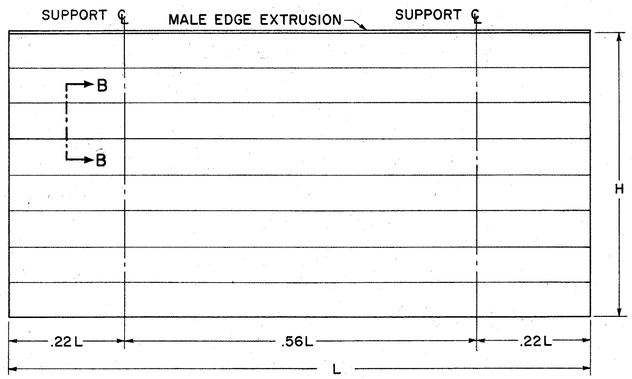
THE PANELS SHALL BE DESIGNED TO WITHSTAND A WIND LOAD OF 35 POUNDS PER SQUARE FOOT, IN ACCORDANCE WITH THE A.A.S.H.O. SPECIFICATION FOR DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS.

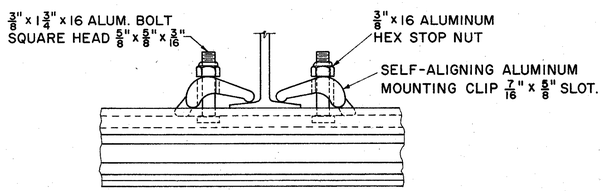
THE MAXIMUM SIGN LENGTH FOR TWO SUPPORTS IS 19'-0".
THE MAXIMUM SIGN LENGTH FOR THREE SUPPORTS IS 29'-0".



SECTION A-A SECTION B-B

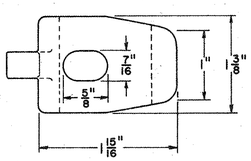
GENERAL ARRANGEMENT

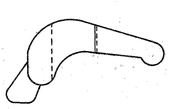




SECTION C-C

CLIP DETAIL





SPOT WELDS

PANEL SIZE	MAXIMUM SPOT WELD SPACING	
	CENTER TO CENTER	BETWN ROWS
12 INCH	4 INCH	10 INCH
18 & 24 INCH	4 INCH	8 INCH

BUREAU OF TRAFFIC
OHIO DEPAPTMENT OF HIGHWAYS

ALUMINUM EXTRUSHEET PANEL SIGN

ECD 1

DATE
9-25-63
5-19-64
10-21-65

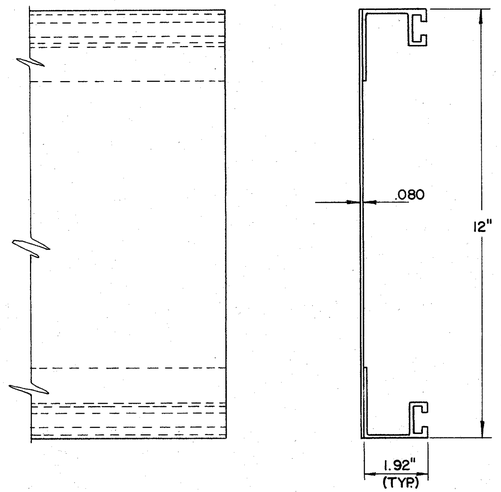
APPROVED Fred C Garber
ENGINEER OF TRAFFIC

ALUMINUM EXTRUSHEET PANEL SIGN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

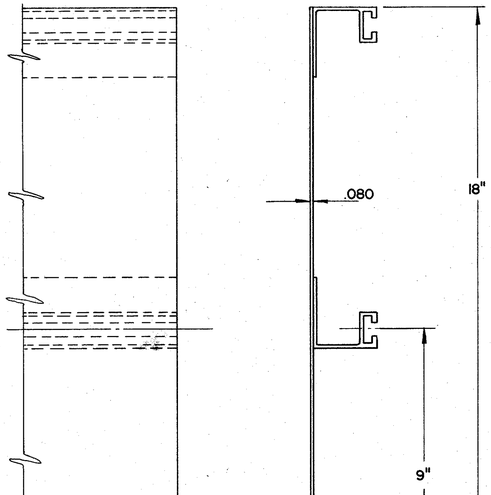
521
638

12" BOLTED-EXTRUSHEET PANEL



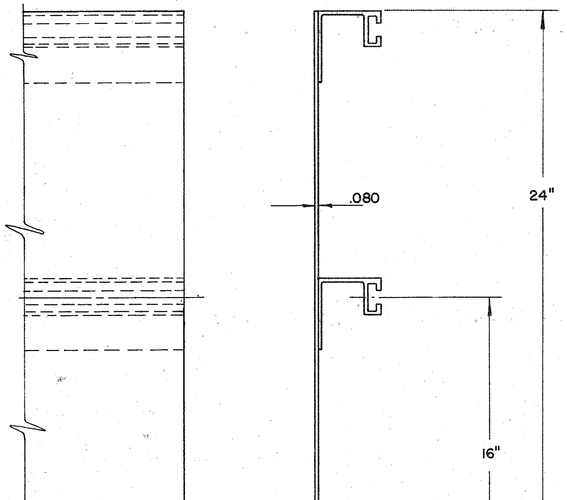
FRONT VIEW SIDE VIEW

18" BOLTED-EXTRUSHEET PANEL



FRONT VIEW SIDE VIEW

24" BOLTED-EXTRUSHEET PANEL



FRONT VIEW SIDE VIEW

NOTES

EXTRU-SHEET PANELS SHALL BE ALUMINUM; SPOT WELDING, MATERIALS AND HARDWARE SHALL CONFORM WITH SPECIFICATION NO. 815.

COMBINATIONS OF 12", 18" AND 24" PANELS ARE TO BE USED TO ATTAIN REQUIRED SIGN HEIGHT.

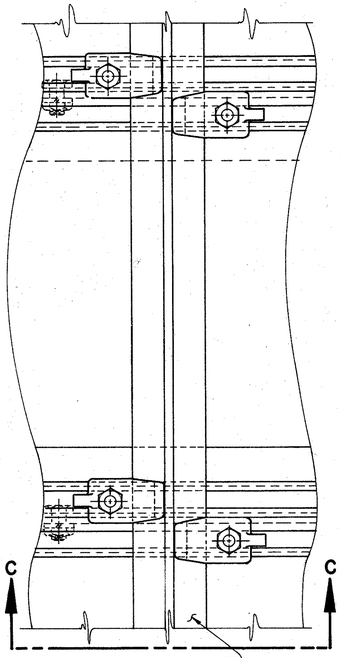
INDIVIDUAL PANELS SHALL BE THE SAME LENGTH AS THE HORIZONTAL LENGTH OF SIGN, WITH NO SPLICES.

THE PANELS SHALL BE ERECTED HORIZONTALLY AND BOLTED ON 24" CENTERS.

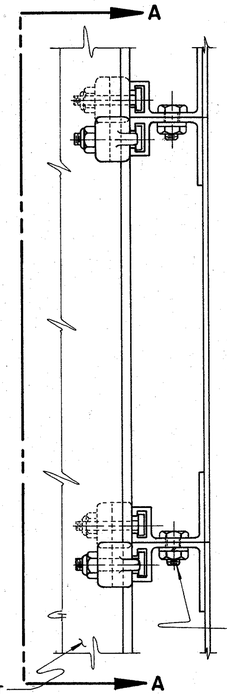
THE PANELS SHALL BE FASTENED TO EACH VERTICAL SUPPORT MEMBER WITH MOUNTING CLIPS; ALTERNATELY AT EACH HORIZONTAL EXTRUSION; BOTH SIDES AT EACH JOINT, AND BOTH SIDES AT TOP AND BOTTOM EDGES OF SIGN.

THE PANELS SHALL BE DESIGNED IN ACCORDANCE WITH THE A.A.S.H.O. SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, BASE ON A WIND LOAD OF 35#/SQ.FT.

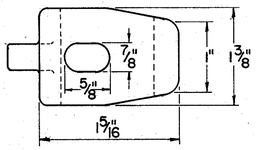
THE MAXIMUM SIGN LENGTH FOR TWO SUPPORTS IS 19'-0". THE MAXIMUM SIGN LENGTH FOR THREE SUPPORTS IS 29'-0".

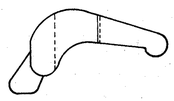


SECTION A-A

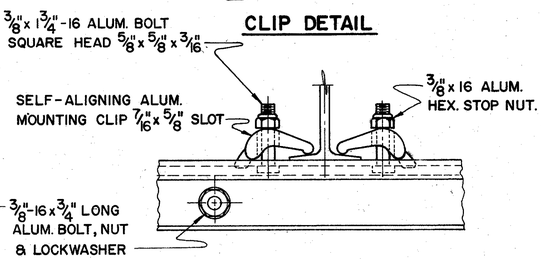


SECTION B-B

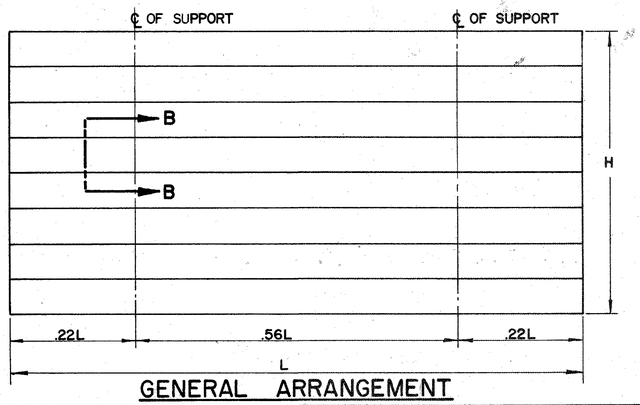




CLIP DETAIL



SECTION C-C



GENERAL ARRANGEMENT

SPOT WELDS

PANEL SIZE	MAXIMUM SPOT WELD SPACING	
	CENTER TO CENTER	BETWN ROWS
12 INCH	4 INCH	10 INCH
18 & 24 INCH	4 INCH	8 INCH

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

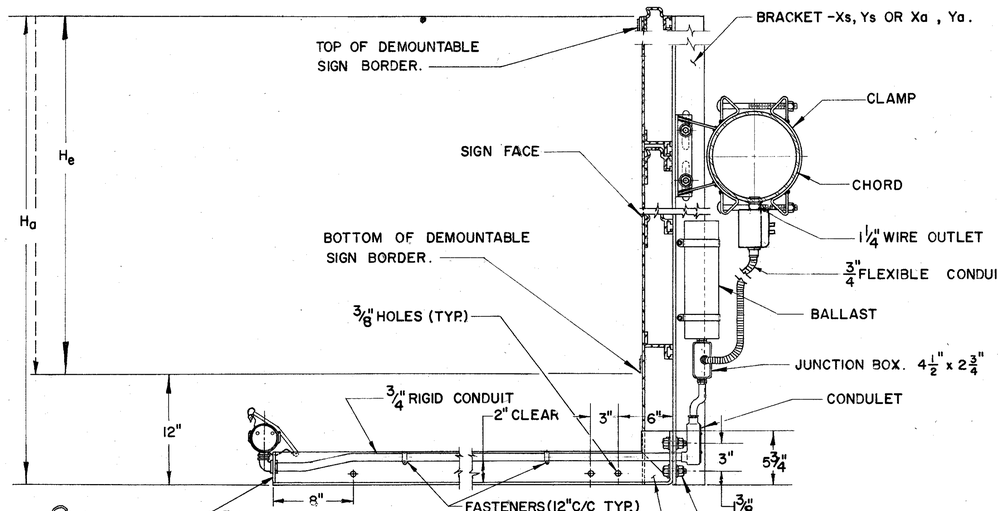
ALUMINUM BOLTED EXTRUSHEET PANEL SIGN	ECD 2	DATE 10-14-65

APPROVED Fred C. Talbot
ENGINEER OF TRAFFIC

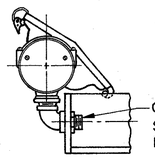
ALUMINUM BOLTED-EXTRUSHEET PANEL SIGN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

502
638



STANDARD FIXTURE LOCATION (BELOW)



FIXTURE CONNECTION WHERE WIRING CONDUIT IS NOT NEEDED.

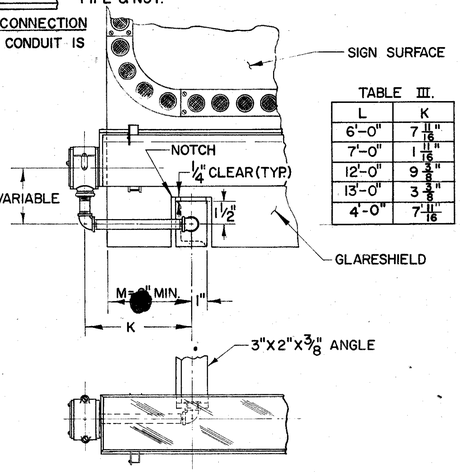
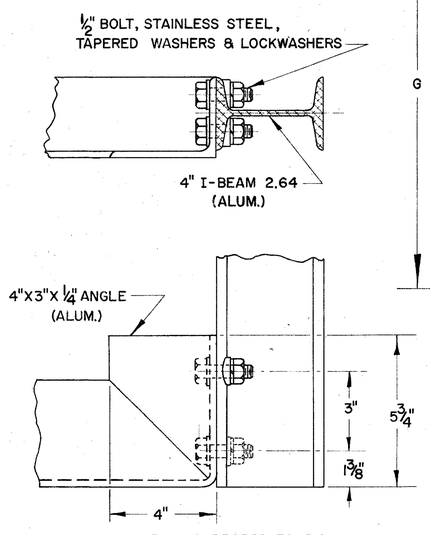


TABLE III.

L	K
6'-0"	7 11/16"
7'-0"	1 1/16"
12'-0"	9 3/8"
13'-0"	3 3/8"
4'-0"	7 11/16"

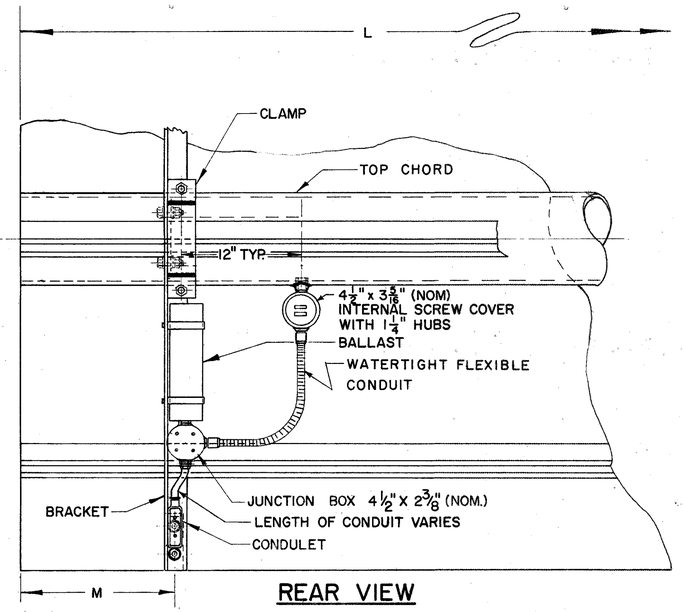
ALTERNATE FIXTURE CONNECTIONS FOR SIGN 6', 7', 12' & 13' IN LENGTH.

DETAIL A.

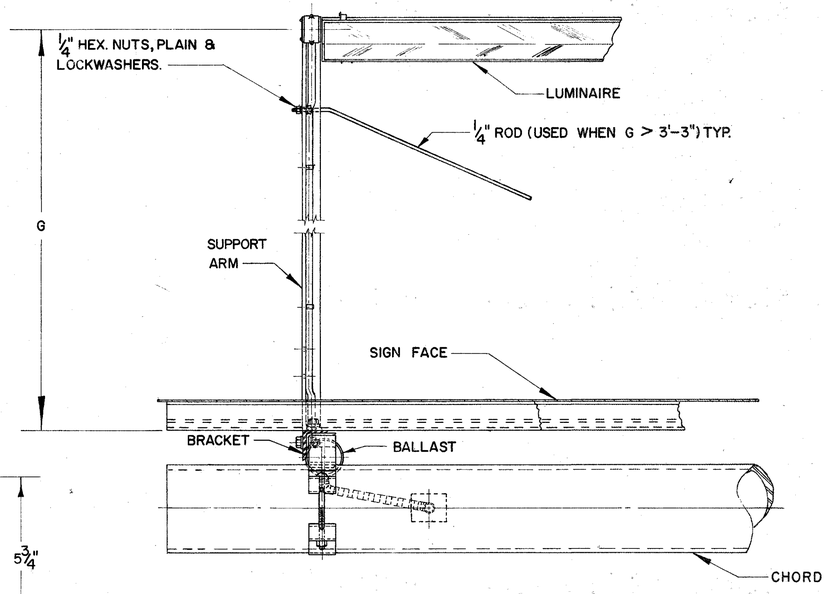


FOR SUPPORTS 7.2-7.6

DETAIL B.



REAR VIEW



TOP VIEW

FABRICATION — ALL STRUCTURAL COMPONENTS SHOWN ON THIS SHEET SHALL CONFORM TO SUPPLEMENT SPECIFICATIONS 816.

MATERIALS — THE MATERIALS USED IN THE COMPONENTS SHOWN ON THIS SHEET SHALL BE IN CONFORMANCE WITH THE MATERIALS USED IN THE SIGN SUPPORT

TABLE I.

"L" SIGN LENGTH A	"L" SIGN LENGTH B	NUMBER OF FIXTURES 75⅜"	NUMBER OF FIXTURES 99⅜"	"M" EDGE DISTANCE A LT.	"M" EDGE DISTANCE A RT.	"M" EDGE DISTANCE B LT.	"M" EDGE DISTANCE B RT.	NO. BALLAST
6'-0"	7'-0"	1		6"	6"	6"	6"	1
8'-0"	9'-0"	1		10 3/8"	10 1/4	16 3/8"	16 1/4	1
10'-0"	11'-0"		1	10 3/8"	10 1/4	16 3/8"	16 1/4	1
12'-0"	13'-0"	2		6"	6	6	6	1
14'-0"	15'-0"	2		8 5/8"	8 3/8"	14 5/8"	14 5/8"	1
16'-0"	17'-0"	1	1	8 5/8"	8 3/8"	14 5/8"	14 5/8"	1
18'-0"	19'-0"		2	8 5/8"	8 3/8"	14 5/8"	14 5/8"	1
20'-0"	21'-0"	3		7"	6 7/8	13	12 7/8	2
22'-0"	23'-0"	2	1	7"	6 7/8	13	12 7/8	2
24'-0"	25'-0"	1	2	7"	6 7/8	13	12 7/8	2
26'-0"	27'-0"		3	7"	6 7/8	13	12 7/8	2
4'-0"		1@51⅜"		6	6	6	6	1

Sn= Nominal Fixture Length, 72" & 96" respectively.
Sa= Actual Fixture Length, for mounting purposes, 75⅜" and 99⅜" respectively. (Slight variation for different manufacturers.)
M= Distance from edge of sign to ℄ of notch, min. 6". When the length of the sign minus 1'-0" is less than the sum of the actual fixture lengths, an offset "K" is used. For additional details see detail A and table III.

TABLE II

MAX. BRACKET SPACING FOR EXTERNALLY ILLUMINATED SIGNS

ACTUAL SIGN HEIGHT "Ha"	SUPPORT TYPES 9.12, 11.08, 13.2, 7.2 — SINGLE TUBE DOUBLE TUBE LESS 36" C/C	9.24, 10.48, 12.24, 14.5, 15.8, 7.2 to 7.6 — DOUBLE TUBE C/C 36"-42"	C/C 48"-54"	C/C 60"-72"
	MAXIMUM BRACKET SPACING			
to 5'-0"	6'-4" with X 8'-4" with Y	8'-4" with X	8'-4" with X	8'-4" with X
5'-6" to 8'-0"	6'-4" with Y	4'-2" with X 6'-4" with Y	6'-4" with X 8'-4" with Y	8'-4" with X
8'-6" to 10'-0"	3'-2" with X 4'-2" with Y	6'-4" with Y	6'-4" with Y	8'-4" with Y
10'-6" to 12'-0"	———	4'-2" with Y	6'-4" with Y	6'-4" with Y
12'-6" to 14'-0"	———	3'-2" with Y	3'-2" with Y	4'-2" with Y

Ha= ACTUAL SIGN HEIGHT
He= EFFECTIVE SIGN HEIGHT
BRACKET SIZE: Xs = 3½" X 2½" X 5/16" — L @ 6.1 LB. STEEL; Ys = 4" X 3 1/16" X ¼" — Z @ 8.2 LB. STEEL } 9.12, 10.48, 11.08, 12.24, 14.5 & 15.8
Xa = 3" X 2 1/16" X ¼" — Z @ 2.33 LB. ALUM.; Ya = 4" X 2 3/32" X 3/16" — I @ 2.64 LB. ALUM. } 7.2 Thru 7.6

WHEN MAX. ALLOWABLE SPACING IS LESS THAN ACTUAL FIXTURE LENGTHS, Sa, ADDITIONAL STANDARD BRACKETS MUST BE FURNISHED, EQUAL IN HEIGHT TO "Ha".

SUPPORTS 7.2 THROUGH 7.6 SHALL HAVE AN ALUMINUM FIXTURE ARM, 4"X3"X¼" ANGLE. SEE DETAIL B. BOLTS AND ACCESSORIES SHALL BE STAINLESS STEEL.

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STRUCTURAL DETAILS FOR EXTERNALLY ILLUMINATED SIGNS

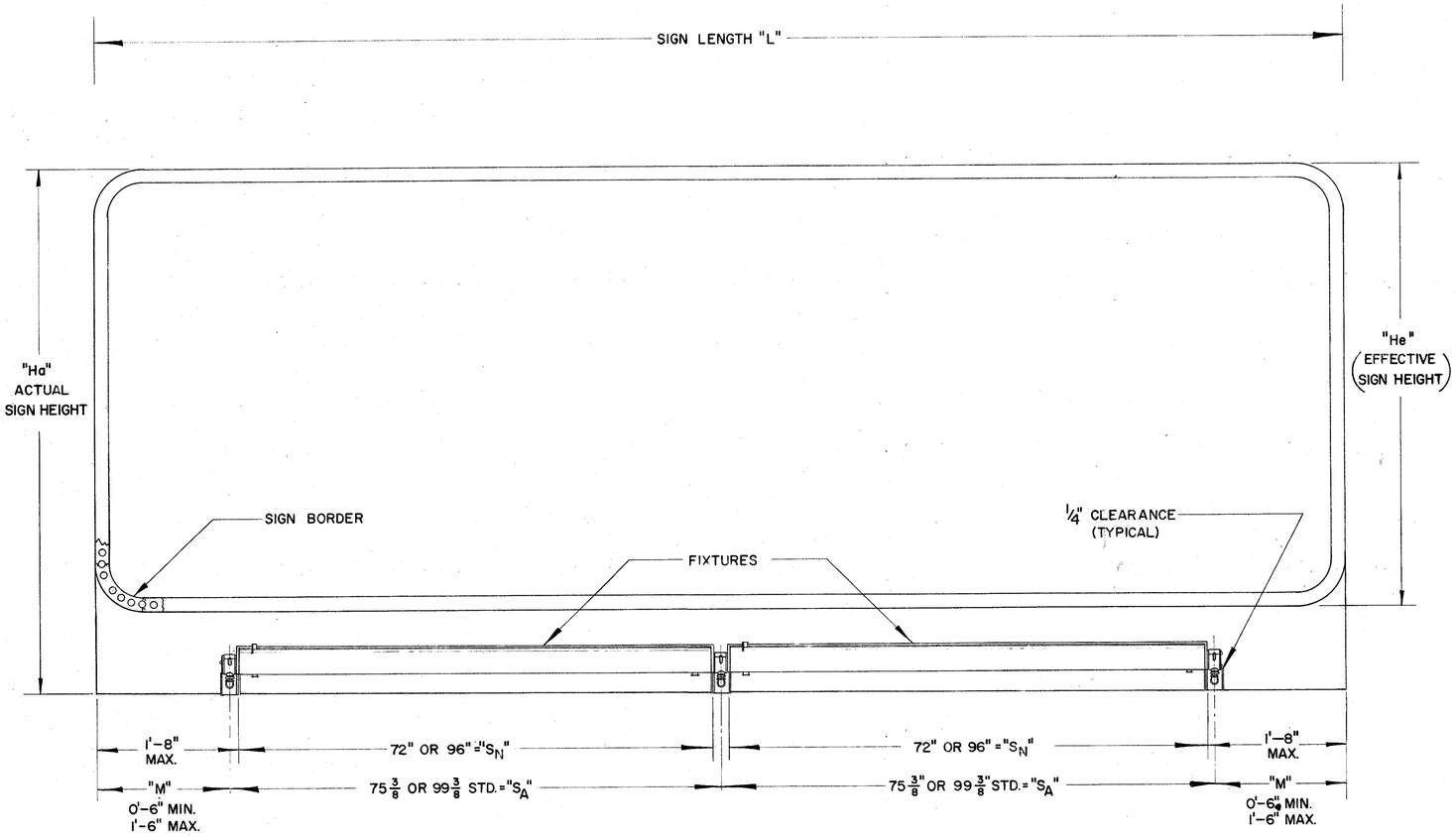
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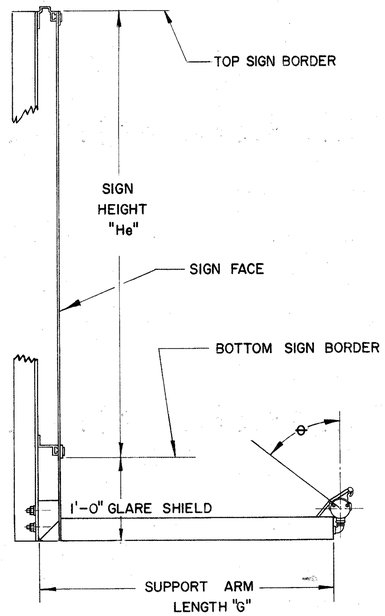
APPROVED Fred C. Tarbox
ENGINEER OF TRAFFIC

STRUCTURAL DETAILS FOR EXTERNALLY ILLUMINATED SIGNS

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SIGN LIGHTING NOTES

SIGN ILLUMINATION

SIGN ILLUMINATION SHALL BE BY ATTACHED FLUORESCENT FIXTURES AS SHOWN ON ILLUMINATED SIGN DETAIL SHEETS.

LAMPS

LAMPS SHALL BE TYPE F72 OR F96-T12/CW/HO AS MANUFACTURED BY WESTINGHOUSE, GENERAL ELECTRIC OR APPROVED EQUAL FOR SIGNS TO A MAXIMUM HEIGHT OF 6'-6". LAMP TYPE SHALL BE F72 OR F96-T12/CW/SHO AS MANUFACTURED BY WESTINGHOUSE, F72 OR F96-PG17/CW AS MANUFACTURED BY GENERAL ELECTRIC OR APPROVED EQUAL FOR SIGNS THAT ARE 7'-0" OR GREATER IN HEIGHT.

LAMP FIXTURES

LIGHTING FIXTURES SHALL BE CONSTRUCTED OF CORROSION RESISTANT MATERIALS OR WITH HIGH QUALITY CORROSION RESISTANT FINISH. ALL FIXTURES SHALL BE SPECIFICALLY DESIGNED FOR OUTDOOR SIGN LIGHTING SERVICE. MAJOR COMPONENTS SHALL INCLUDE WEATHERPROOF CAST ALUMINUM MOUNTING HUBS DESIGNED TO SECURELY LOCK THE FIXTURES AT ANY ANGLE THROUGH 360 DEGREES. INDICATORS IN 10 DEGREE INCREMENTS SHALL BE STAMPED OR CAST INTO THE HUB TO FACILITATE PROPER AIMING OF THE FIXTURE. FINAL ADJUSTMENT OF FIXTURE SHALL BE DONE AT NIGHT UNDER THE PROJECT ENGINEER'S DIRECTION.

THE BODY DESIGN OF THE FIXTURE SHALL PROVIDE AN ASYMMETRIC SPECULAR ALZAK REFLECTOR TO GIVE A HIGH LEVEL OF UNIFORM ILLUMINATION AND SHALL PROVIDE A WIREWAY FROM END TO END. WHEN ADJACENT FIXTURES ARE WIRED TOGETHER THROUGH THE WIREWAY, WIRE BETWEEN FIXTURES SHALL BE ENTIRELY ENCLOSED.

EXTERIOR FINISH OF THE FIXTURE BODY SHALL BE INTERSTATE GREEN COLOR, HEAT RESISTANT BAKED ENAMEL AS #8950 UNIVERSAL PAINT AND VARNISH INC., OR MIDWESTERN COLOR WORKS, OR APPROVED EQUAL. REFLECTOR, LAMP AND SOCKETS SHALL BE PROTECTED BY A HINGED DOOR OF CLEAR ACRYLIC PLASTIC WITH ALUMINUM OR STAINLESS STEEL FRAME AND NEOPRENE GASKETING.

BALLASTS

BALLASTS FOR FIXTURES SHALL BE WEATHER-PROOF OUTDOOR TYPE FOR A 120 VOLT 60 CYCLE SYSTEM AND SHALL PROVIDE LAMP STARTING AT AN AMBIENT TEMPERATURE OF -20°F. BALLASTS SHALL BE MOUNTED ON SIGN BRACKET ONLY. WIRING SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT THE SIGN MAY BE REMOVED WITHOUT DISTURBING THE ELECTRICAL WIRING.

* EXTERIOR FINISH OF 4'-0" LENGTH FIXTURE BODY SHALL BE WHITE IN ACCORDANCE WITH THE REQUIRED SPECIFICATIONS.

EFFECTIVE SIGN HEIGHT "H"	SUPPORT ARM LENGTH "G"	APPROX. AIMING ANGLE θ
3'-0" to 5'-0"	2'-9"	25°
5'-0" to 6'-6"	3'-3"	25°
7'-0" to 10'-0"	4'-3"	17°
10'-6" to 13'-0"	5'-9"	23°

"L" SIGN LENGTH	NO. OF FIXTURES			He=3'-0" to 6'-6" LAMP=T12/cw/ho			He=7'-0" to 13'-0" LAMP=T12/cw/sho		
		72	96	BALLAST NO.	BALLAST TYPE	WATTAGE PER SIGN	BALLAST NO.	BALLAST TYPE	WATTAGE PER SIGN
6'-0" to 7'-0"		1		1	A	190	1	C	250
8'-0" to 9'-0"		1		1	A	190	1	C	250
10'-0" to 11'-0"			1	1	A	190	1	C	250
12'-0" to 13'-0"		2		1	B	250	1	D	425
14'-0" to 15'-0"		2		1	B	250	1	D	425
16'-0" to 17'-0"		1	1	1	B	250	1	D	425
18'-0" to 19'-0"			2	1	B	250	1	D	425
20'-0" to 21'-0"		3		2	A&B	440	2	C&D	675
22'-0" to 23'-0"		2	1	2	A&B	440	2	C&D	675
24'-0" to 25'-0"		1	2	2	A&B	440	2	C&D	675
26'-0" to 27'-0"			3	2	A&B	440	2	C&D	675
4	1*				A	190			

BALLASTS

TYPE	MANUFACTURERS		WATTAGE
	G.E.	JEFFERSON	
A	GG 3583	257-321	190
B	GG 3535	257-331	250
C	GG 3585	257-361	250
D	GG 3588	257-371	425

BALLASTS SHALL BE GENERAL ELECTRIC, JEFFERSON AS SPECIFIED ABOVE OR EQUAL.

TRANSFORMERS

TYPE	MANUFACTURERS G.E.	MANUFACTURERS JEFFERSON	OUTPUT K.V.A.	SWITCH TRANSFORMER ENCLOSURE
I	9T51Y7	220-241	.25	Y
II	9T51Y8	220-251	.50	Y
III	9T51Y9	220-261	.75	Y
IV	9T51Y10	220-071-100	1.00	Z
V	9T51Y11	220-081-100	1.50	Z
VI	9T51Y12	220-091-100	2.00	Z
VII	9T51Y13	221-102	3.00	Z

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ELECTRICAL DETAILS FOR EXTERNALLY ILLUMINATED SIGNS

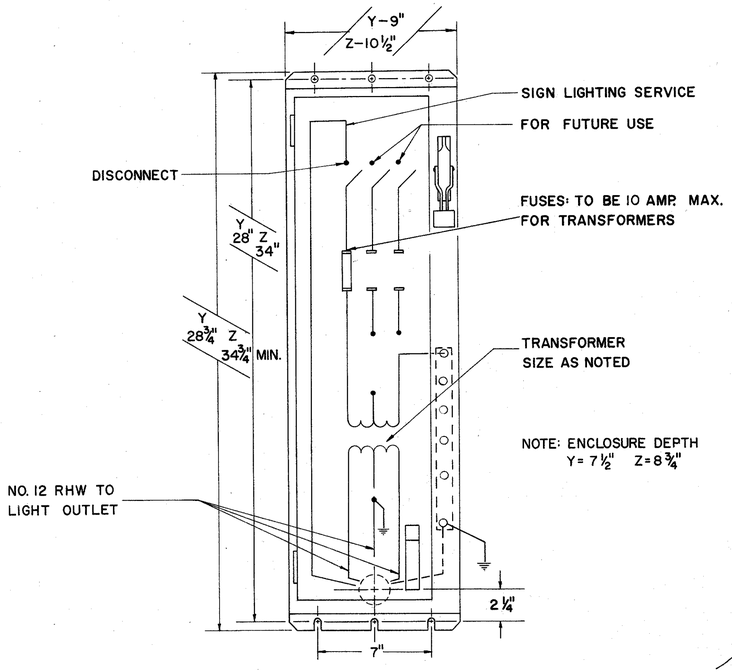
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5-6-64
10-29-64
03-29-67

APPROVED Fred C Talbot
ENGINEER OF TRAFFIC

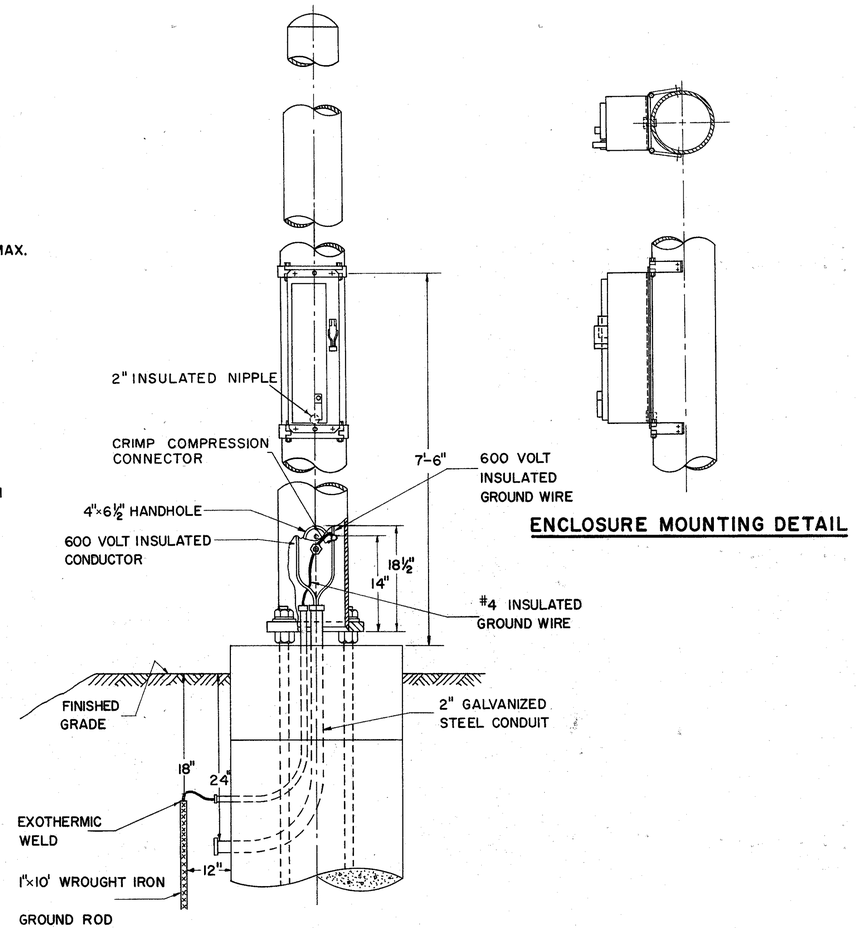
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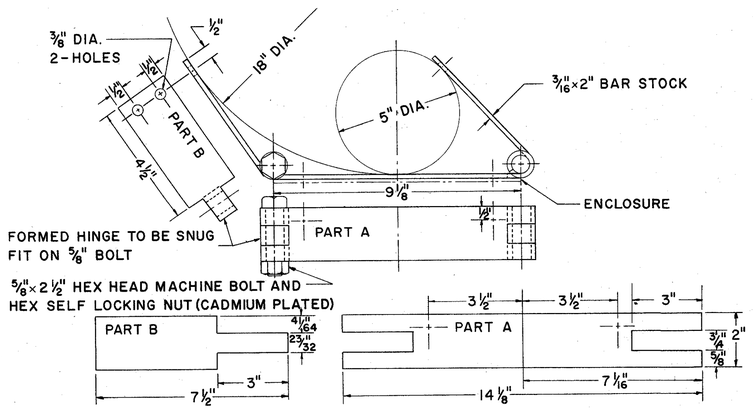
TYPICAL ENCLOSURE DETAIL

480 VOLT SIGN LIGHTING SERVICE

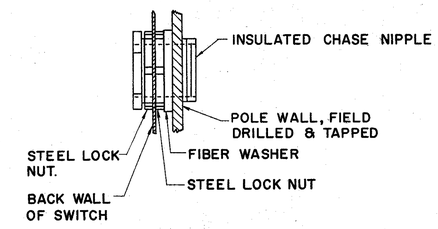


SIGN SUPPORT DETAIL FOR ILLUMINATED SIGNS

ENCLOSURE MOUNTING DETAIL



ENCLOSURE MOUNTING BRACKET



INSULATED CHASE NIPPLE ASSEMBLY

AS MANUFACTURED BY THOMAS BETTS, APPELTON, STEEL CITY OR EQUAL

NOTES

GENERAL

DETAILS OF THIS SHEET SHALL APPLY TO EACH OVERHEAD SIGN STRUCTURE TO SUPPORT EXTERNALLY ILLUMINATED SIGNS.

SERVICE

ELECTRIC SERVICE SHALL ENTER THROUGH A 2" GALVANIZED RIGID STEEL CONDUIT INSTALLED IN STRUCTURE FOUNDATION AS PER DETAIL. SIGN SERVICE OR CIRCUITRY SHALL BE CONTROLLED AS REQUIRED BY THE SYSTEM DESIGN AT THE PRIMARY SOURCE.

SERVICE CONDUCTORS SHALL BE THE SIZE AND TYPE AS SPECIFIED.

COMBINATION SWITCH AND TRANSFORMER

(TYPE Y OR Z ENCLOSURE REQUIRED AS PER SCHEDULE ON THIS SHEET)

THIS COMBINATION SHALL BE A 30 OR 60 AMPERE 600 VOLT SWITCH WITH A .25 TO 3.0 KVA TRANSFORMER. THE COMBINATION AND ENCLOSURE SHALL BE AS SQUARE D CLASS 9421, COLUMBUS ELECTRIC WORKS CLASS 101, PANALS INCORPORATED–CLASS 9400, OR APPROVED EQUAL.

TRANSFORMER

THE TRANSFORMER SHALL BE DRY TYPE SINGLE PHASE 240/480 VOLT PRIMARY 120/240 VOLT SECONDARY, THE TYPE AND CAPACITY AS SPECIFIED IN DETAILED SCHEDULE ON THIS SHEET.

ENCLOSURE

THE ENCLOSURE SHALL BE NEMA #4 WATER TIGHT .063 GAGE STAINLESS STEEL ASTA 302–303. A DISCONNECT HANDLE SHALL BE FLANGE MOUNTED AND CAPABLE OF BEING LOCKED IN EITHER POSITION. THE ENCLOSURE SHALL BE EQUIPPED WITH A DOOR LOCKING MECHANISM WITH A DEFEATER THAT NECESSITATES TWO HANDS TO OPERATE MECHANISM WITH THE SWITCH IN OFF POSITION. SPACE FOR A 2" INSULATED CHASE NIPPLE SHALL BE PROVIDED APPROXIMATELY 2¼" ABOVE THE CENTER LINE OF THE LOWER MOUNTING SLOT. THIS ENCLOSURE AND STRUCTURE SHALL BE FIELD DRILLED AND TAPPED FOR THE REQUIRED NIPPLE AS SHOWN ON THE DETAIL ON THIS SHEET.

THIS ENCLOSURE SHALL BE FLANGE MOUNTED ON BRACKETS WITH 5/16–18×¾" HEX HEAD CADMIUM PLATED MACHINE BOLTS. ENCLOSURES SHALL BE TYPE Y OR Z AS SPECIFIED AND DIMENSIONED ON THIS SHEET.

ENCLOSURE MOUNTING BRACKET

THE ENCLOSURE MOUNTING BRACKET SHALL BE FABRICATED THEN GALVANIZED BEFORE ASSEMBLY. THE BRACKET SHALL BE FIELD MOUNTED WITH 5/16" HEX HEAD SELF TAPPING CADMIUM PLATED SCREWS. THE SIGN SUPPORT SHALL BE FIELD DRILLED, AS PER DETAIL.

WIRE AND CABLE

ALL WIRE AND CABLE UP TO AND INCLUDING #4 SHALL COMPLY WITH FAA TYPE A SPECIFICATIONS. #2 OR LARGER WIRE OR CABLE SHALL BE G.E. 58006 OR ANACONDA AP–10711, OR EQUAL. ALL WIRE AND CABLE SHALL BE 600 VOLT.

GROUNDING

EACH SIGN SUPPORT OR STRUCTURE SHALL BE GROUNDED WITH A #4 RUBBER INSULATION AND NEOPRENE JACKETED CONDUCTOR. THE GROUNDING CONDUCTOR SHALL BE CONNECTED TO THE SWITCH THEN TO THE COMPRESSION CONNECTOR IN THE SIGN SUPPORT THEN TO A 1"×10' SOLID WROUGHT IRON GROUND ROD. GROUND CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO GROUND ROD AND THEN TAPED WITH PLASTIC ELECTRICAL TAPE AT EACH EXPOSED PORTION OF CONDUCTOR. THE WELDED CONNECTION AND TAPED PORTION SHALL BE PAINTED 2 COATS OF INSULATING ENAMEL.

TRANSFORMERS

TYPE	MANUFACTURERS G.E.	MANUFACTURERS JEFFERSON	OUTPUT K.V.A.	SWITCH TRANSFORMER ENCLOSURE
I	9T51Y7	220–241	.25	Y
II	9T51Y8	220–251	.50	Y
III	9T51Y9	220–261	.75	Y
IV	9T51Y10	220–071–100	1.00	Z
V	9T51Y11	220–081–100	1.50	Z
VI	9T51Y12	220–091–100	2.00	Z
VII	9T51Y13	221–102	3.00	Z

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ELECTRICAL SIGN SERVICE DETAILS 480 VOLT SYSTEM

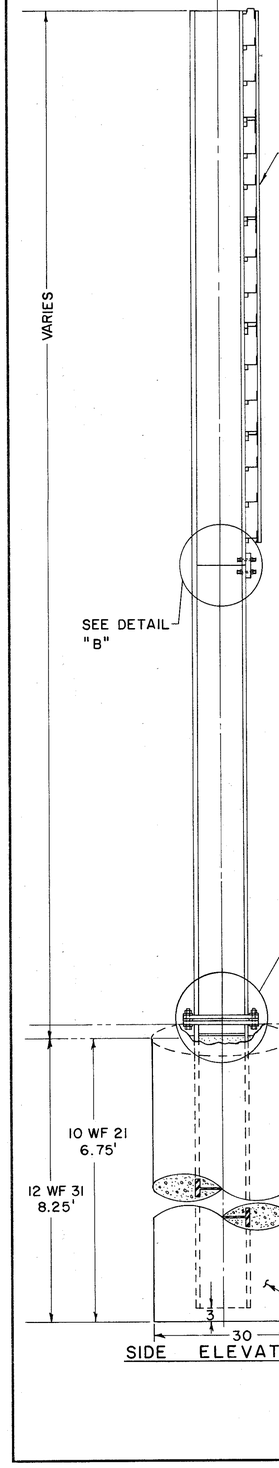
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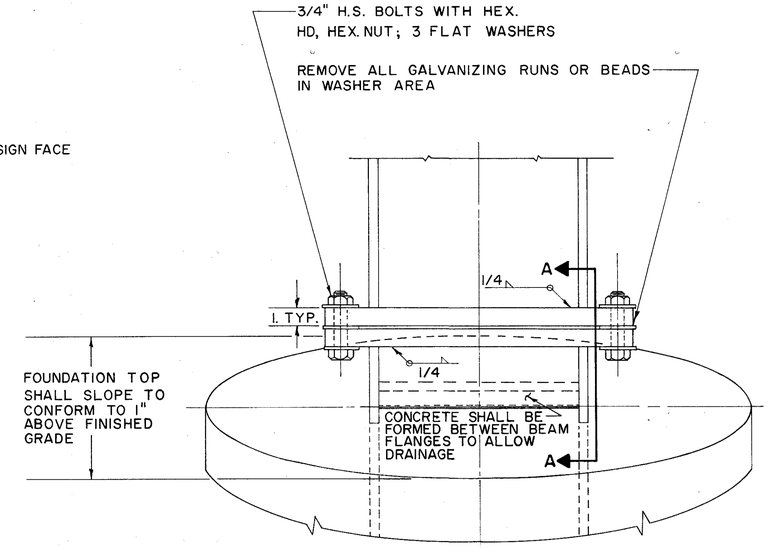
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SIDE ELEVATION

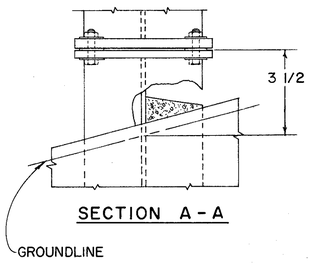


BOLTING PROCEDURE

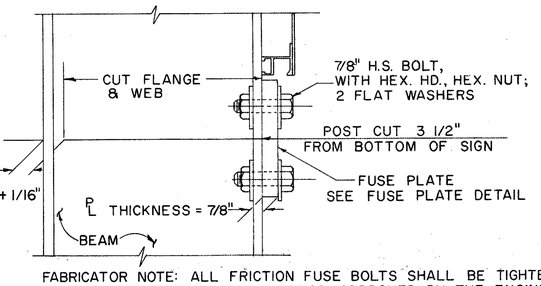
1. ASSEMBLE POST TO STUB W/BOLTS & ONE FLAT WASHER ON EACH BOLT BETWEEN PLATES.
2. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE W/12" TO 15" WRENCH TO BED & TO CLEAN BOLT THREADS. LOOSEN EACH BOLT IN TURN & RETIGHTEN BOLTS IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE OF 750 IN. LBS.
3. BURR THREADS AT JUNCTION W/NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

NOTE: TIGHTEN THE H.S. BOLTS IN THE BASE CONNECTION ONLY TO GIVEN TORQUE DO NOT OVER TIGHTEN

VIEW "A" ROTATED 180°



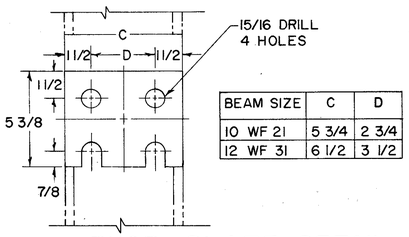
SECTION A-A



FABRICATOR NOTE: ALL FRICTION FUSE BOLTS SHALL BE TIGHTENED IN THE SHOP FOLLOWING A METHOD APPROVED BY THE ENGINEER. TIGHTENING SHALL BE TO SUCH A DEGREE AS TO OBTAIN MINIMUM RESIDUAL TENSION IN EACH BOLT OF 36,050 LBS.

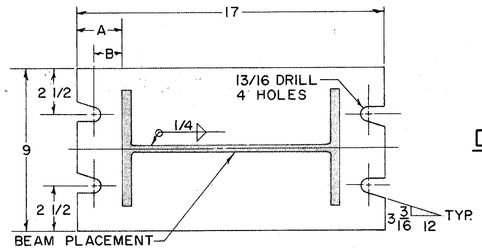
NOTE: INSTALL FUSE PLATE WITH NOTCHES TOWARD BASE

DETAIL "B"



BEAM SIZE	C	D
10 WF 21	5 3/4	2 3/4
12 WF 31	6 1/2	3 1/2

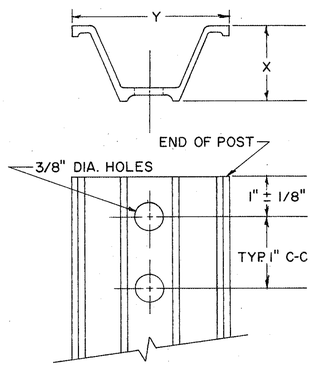
FUSE PLATE DETAIL



BEAM SIZE	A	B
10 WF 21	3 1/2	2 5/8
12 WF 31	2 1/2	1 5/8

BASE PLATE DETAIL

(TOP VIEW)

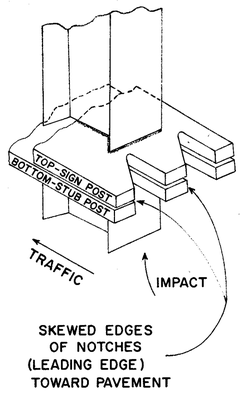


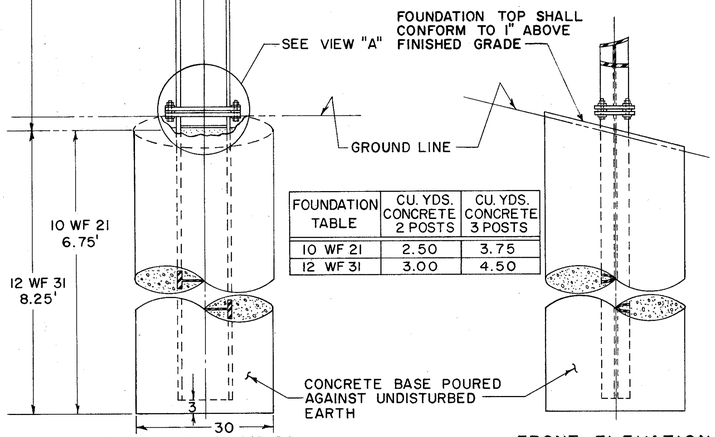
WEIGHT PER FOOT	X ± 3/32"	Y ± 1/8"
2.00 #	1 15/32"	3 1/16"
3.00 #	1 7/8"	3 1/2"
4.00 #	2"	3 5/8"

DRIVE POST DETAIL

NOTE: THE FOUNDATION FOR 4# DRIVE POST IS SIMILAR TO THE FOUNDATION SHOWN FOR 6# & 8# BEAM

BREAKAWAY SIGN SUPPORT BASE PLATE ORIENTATION

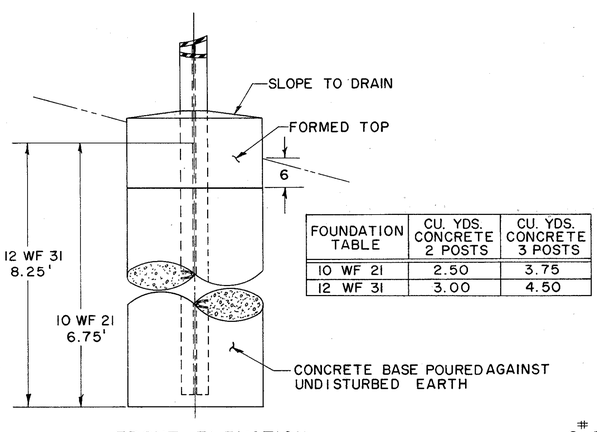




FOUNDATION TABLE	CU. YDS. CONCRETE 2 POSTS	CU. YDS. CONCRETE 3 POSTS
10 WF 21	2.50	3.75
12 WF 31	3.00	4.50

FRONT ELEVATION

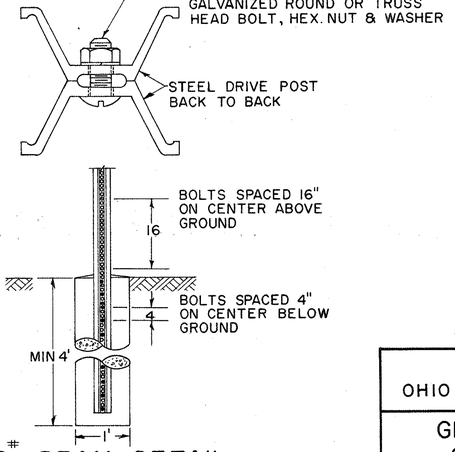
BREAK-AWAY SUPPORT



FOUNDATION TABLE	CU. YDS. CONCRETE 2 POSTS	CU. YDS. CONCRETE 3 POSTS
10 WF 21	2.50	3.75
12 WF 31	3.00	4.50

FRONT ELEVATION

STANDARD SUPPORT



6# & 8# BEAM DETAIL

NOTES: ALL MATERIALS SHALL CONFORM TO THE STATE OF OHIO, CONSTRUCTION & MATERIALS SPECIFICATIONS OR AS OTHERWISE SPECIFIED

1) 511 FOUNDATIONS
2) 711.01 STRUCTURAL STEEL SHAPES & PLATES
3) 711.09 H.S. STEEL BOLTS, NUTS & WASHERS

ALL DIMENSIONS IN INCHES UNLESS OTERWISE SHOWN

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GROUND MOUNTED SIGN SUPPORTS

GMSS

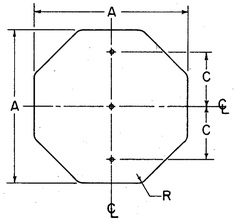
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ENGINEER OF TRAFFIC

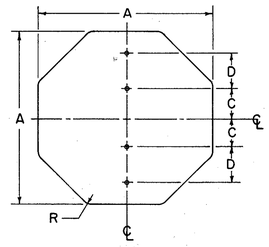
STRUCTURAL SUPPORTS

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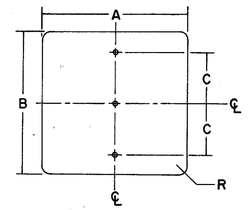
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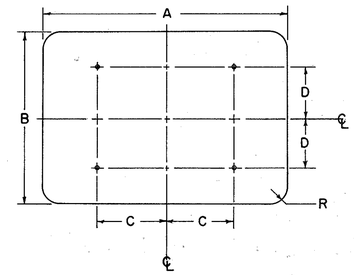
A	C	R	GAUGE
30	8	1 1/2	.080
36	8	1 1/2	.080



A	C	D	R	GAUGE
48	8	10	1 1/2	.100

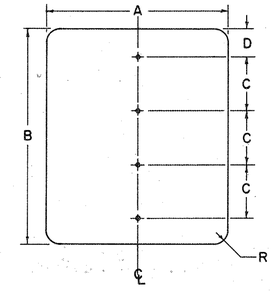


A	B	C	R	GAUGE
24	30	8	1 1/2	.063
24	48	15	1 1/2	.100
30	36	11	1 1/2	.080
30	42	12	1 1/2	.080
36	36	11	1 1/2	.080
36	42	15	1 1/2	.080
36	48	15	1 1/2	.080
48	24	10	3	.100
48	36	13	3	.100

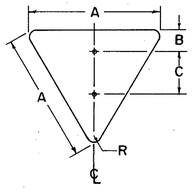


A	B	C	D	R	GAUGE
48	48	22	16	3	.100
48	60	22	22	3	.100

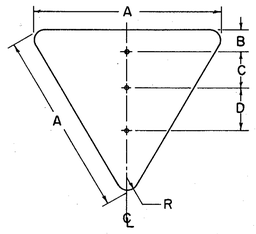
SPEED LIMIT SIGNS ON TWO SUPPORTS



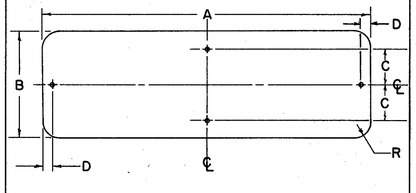
A	B	C	D	R	GAUGE
48	48	12	6	3	.100
48	60	15	7 1/2	3	.100



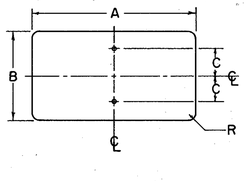
A	B	C	R	GAUGE
36	3	16	2 1/2	.080



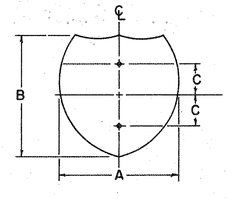
A	B	C	D	R	GAUGE
48	4	10	15	3	.100
60	5	10	15	4	.100



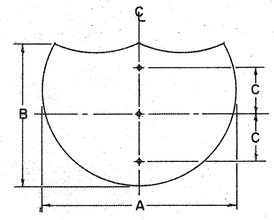
A	B	C	D	R	GAUGE
36	12	4	1	1 1/2	.080
72	12	—	16	1 1/2	.100
60	12	—	13	1 1/2	.100



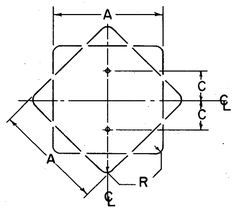
A	B	C	R	GAUGE
12	6	1 1/2	1 1/2	.063
20	15	6	1 1/2	.063
24	12	4 1/2	1 1/2	.063
24	18	7 1/2	1 1/2	.063
8	26	8	1	.063
36	18	7 1/2	1 1/2	.080



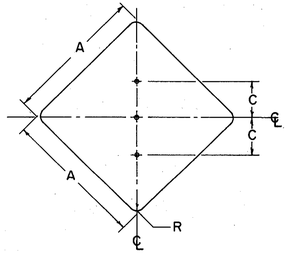
A	B	C	GAUGE
24	24	8	.063
30	24	8	.080



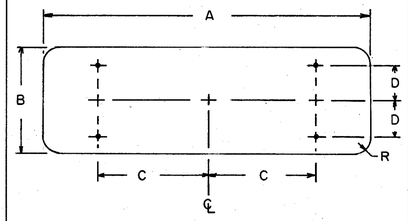
A	B	C	GAUGE
36	36	11	.080
48	36	11	.100



A	C	R	GAUGE
18	7 1/2	1 1/2	.063
24	8	1 1/2	.063
30	8	1 1/2	.080

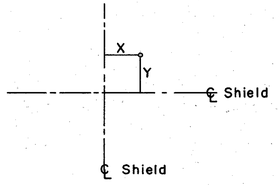


A	C	R	GAUGE
36	12	1 1/2	.080
48	14	3	.100



A	B	C	D	R	GAUGE
72	18	20	6	1 1/2	.100
72	24	20	8	1 1/2	.100
60	30	17	10	1 1/2	.100
96	18	27	6	1 1/2	.100

Location of holes on "Demountable Shields" (attached to guide signs)



SIZE	NO. HOLES	X	Y
(26) 24X24	4	7	7
30X24	4	8	8
(39) 36X36	4	10	10
		0	10
48X36	6	15	10

For notes on fastening see drawing for miscellaneous "Signing Items" sheet.

NOTES:

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

MATERIAL

FLAT SIGN BLANKS SHALL BE FURNISHED IN ALUMINUM ALLOY 6061-T6, (ASTM-B209, GSIIA-T6) WITH MILL FINISH.

BOLT HOLES

THE BOLT HOLES SHALL BE 3/8" IN DIAMETER, AND MAY BE DRILLED, BLANKED OR PUNCHED TO FINISHED SIZE.

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

SIGN BLANK DETAILS

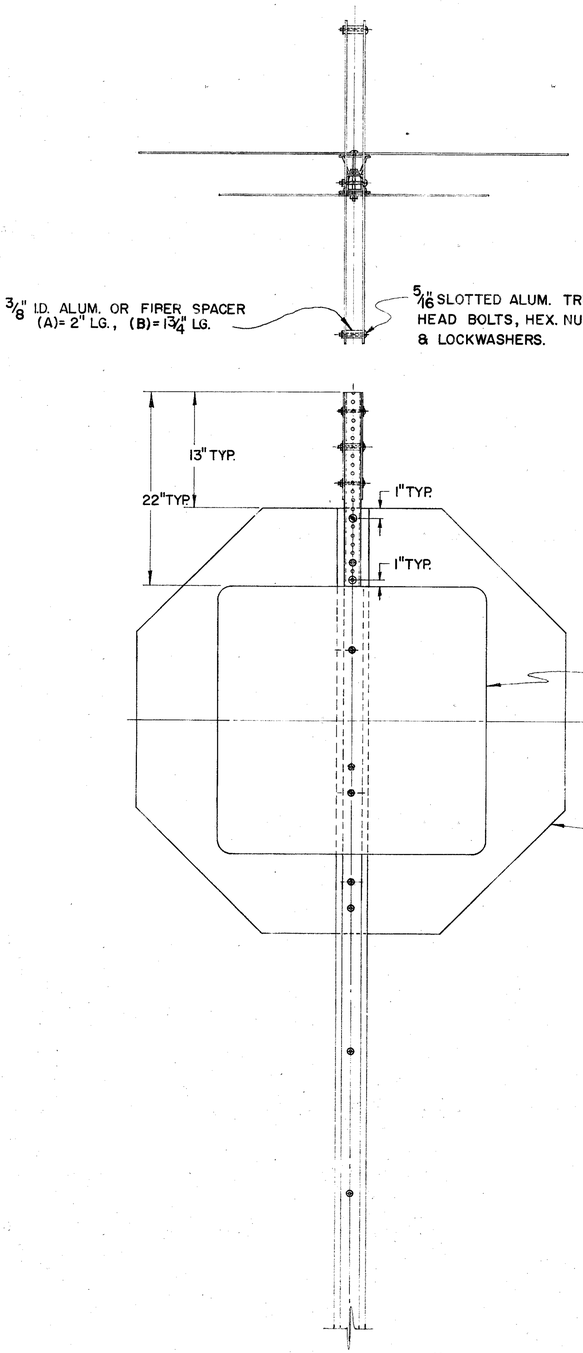
SBD

DATE
4-14-67
5-10-68
10-1-68
5-27-69
6-18-69

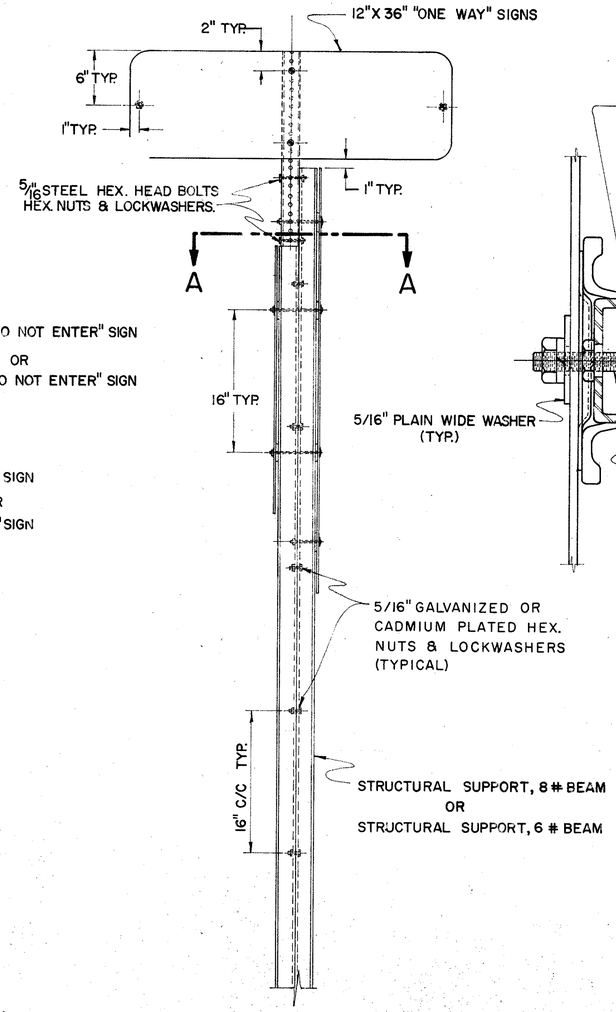
APPROVED_____
ENGINEER OF TRAFFIC

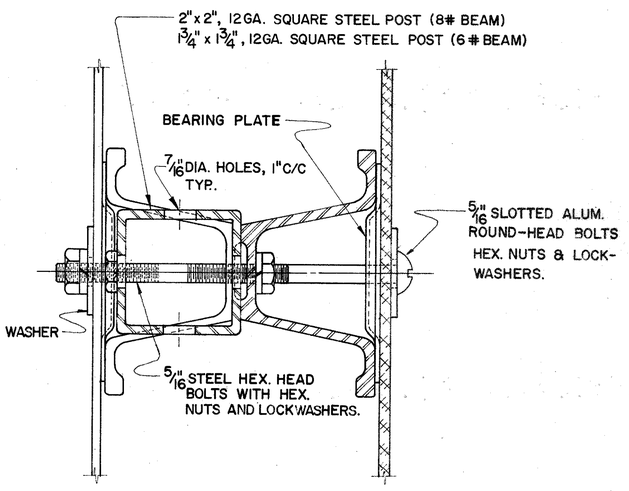
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

507
638

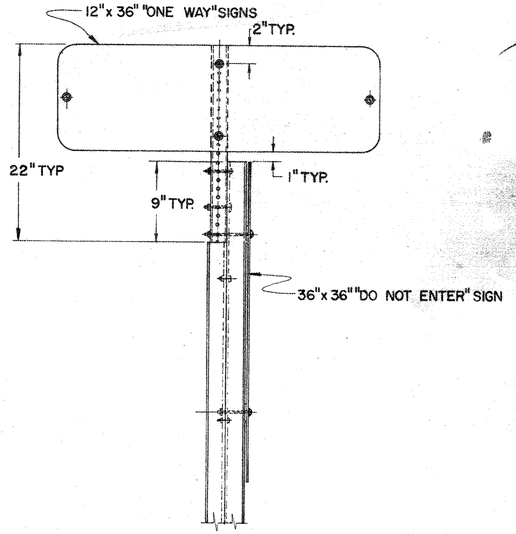


"ONE WAY", "STOP", "DO NOT ENTER",
SIGN INSTALLATION.





SECTION A-A



"ONE WAY", "DO NOT ENTER"
SIGN INSTALLATION

NOTES

MATERIALS

ALL SIGN MATERIALS SHALL BE IN ACCORDANCE WITH SUPPLEMENT SPECIFICATION 815.

ALL STRUCTURAL MATERIALS SHALL BE IN ACCORDANCE WITH SUPPLEMENT SPECIFICATION 816.

FOR SPECIFICATIONS FOR THE 2" & 1 3/4" SQUARE STEEL POST SEE GENERAL NOTES, SHEET NO.____.

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

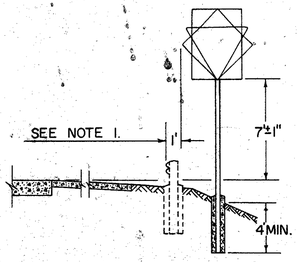
SPECIAL "ONE WAY" SIGN SUPPORT DETAILS	SOW	DATE 2-7-66 4-18-67

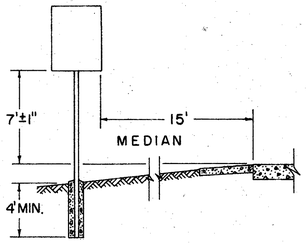
APPROVED_____
ENGINEER OF TRAFFIC

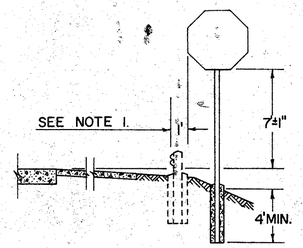
SPECIAL "ONE WAY" SIGN SUPPORT DETAILS

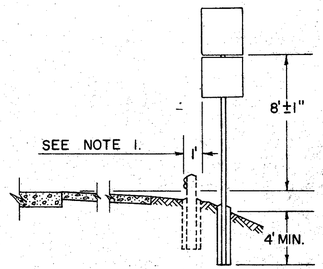
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

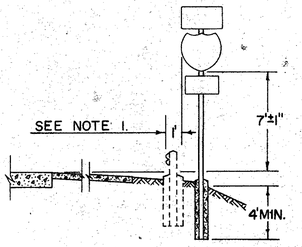
508
638

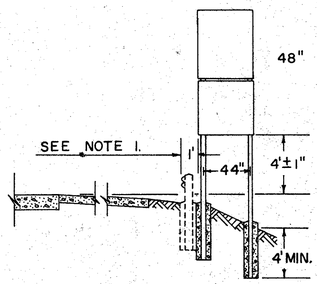


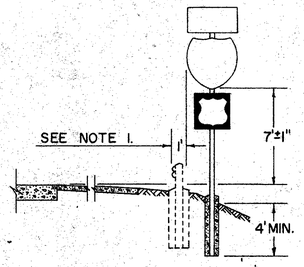


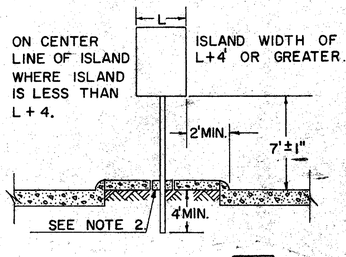


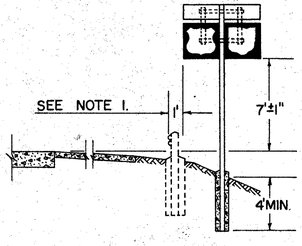


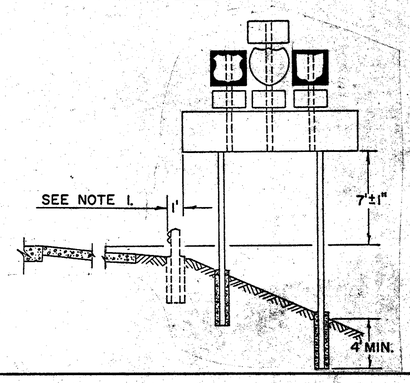


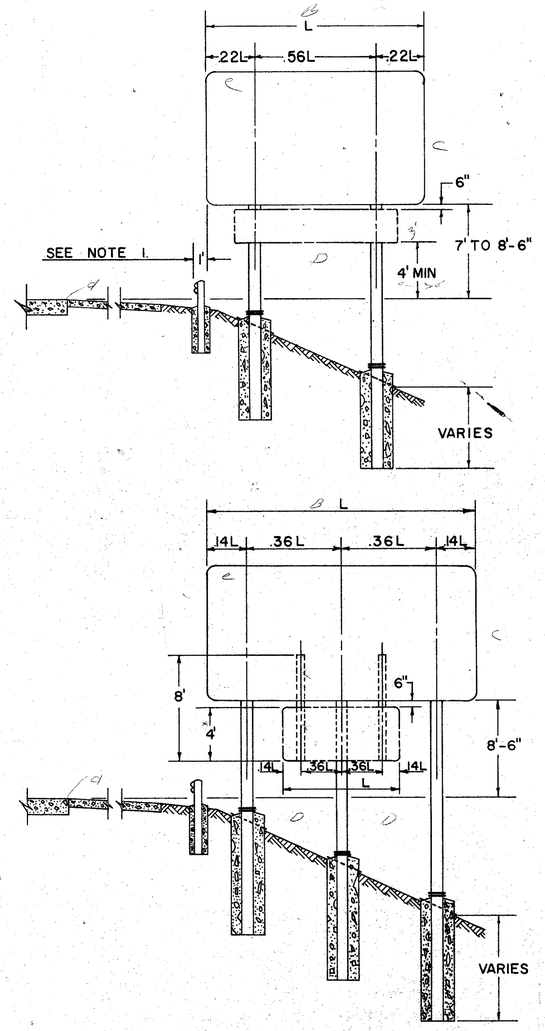


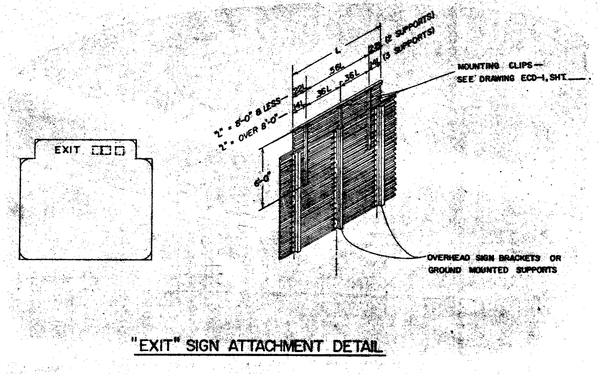




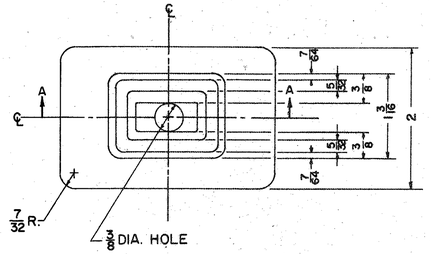








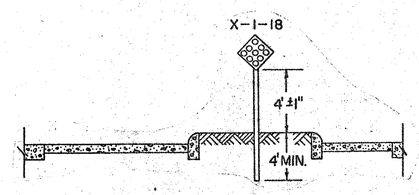
"EXIT" SIGN ATTACHMENT DETAIL



SECTION AA

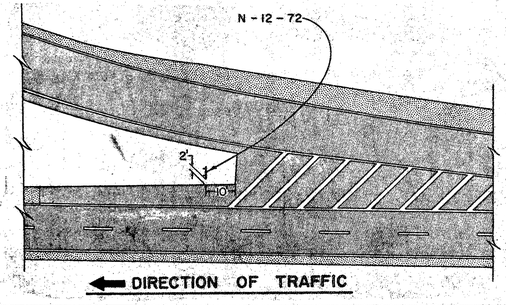
NOTE:
THE PLATE IS SYMMETRICAL ABOUT EITHER CENTERLINE.
METAL SHALL BE 16 GAUGE STEEL.
ALL DIMENSIONS ARE IN INCHES.

BEARING PLATE DETAIL



SIGN SUPPORT SPACING

L=FT	2 SUPPORTS .22	2 SUPPORTS .56	3 SUPPORTS .14	3 SUPPORTS .36	L=FT	2 SUPPORTS .22	2 SUPPORTS .56	3 SUPPORTS .14	3 SUPPORTS .36
5.0	1.10	2.80	0.70	1.80	17.0	3.74	9.52	2.38	6.12
6.0	1.32	3.36	0.84	2.16	18.0	3.96	10.08	2.52	6.48
7.0	1.54	3.92	0.98	2.52	19.0	4.18	10.64	2.66	6.84
8.0	1.76	4.48	1.12	2.88	20.0			2.80	7.20
9.0	1.98	5.04	1.26	3.24	21.0			2.94	7.56
10.0	2.20	5.60	1.40	3.60	22.0			3.08	7.92
11.0	2.42	6.16	1.54	3.96	23.0			3.22	8.28
12.0	2.64	6.72	1.68	4.32	24.0			3.36	8.64
13.0	2.86	7.28	1.82	4.68	25.0			3.50	9.00
14.0	3.08	7.84	1.96	5.04	26.0			3.64	9.36
15.0	3.30	8.40	2.10	5.40	27.0			3.78	9.72
16.0	3.52	8.96	2.24	5.76	28.0			3.92	10.08



DIRECTION OF TRAFFIC

NOTES

1. THE NEAR EDGE OF ALL MAIN LINE SIGNS, EXCEPT GORE INSTALLATIONS, SHALL BE LOCATED ONE FOOT (1') BACK OF GUARD RAIL FACE. THIS DIMENSION SHALL BE DETERMINED BY ROADWAY TYPICAL SECTION & USED WHETHER OR NOT GUARD RAIL IS PRESENT.

ON RAMPS THE NEAR EDGE OF SIGNS SHALL BE LOCATED ONE FOOT (1') BACK OF GUARD RAIL FACE. THIS DIMENSION WILL BE DETERMINED AND USED AS FOR MAIN LINE ABOVE.

ON APPROACHES THE NEAR EDGE OF SIGNS SHALL BE

(A) ONE FOOT (1') BEHIND EXISTING GUARD RAIL

(B) TWO FEET (2') FROM THE EDGE OF PAVED OR TRAVELED SHOULDER WITH A MINIMUM OF 6' FROM EDGE OF ROADWAY PAVEMENT.

2. POSTS PLACED IN CONCRETE MEDIANS SHALL BE INSTALLED BY DRIVING THROUGH A 6" SLEEVE OR CORE DRILLED HOLE. THE HOLE SHALL BE FILLED WITH ASPHALT OR PORTLAND CONCRETE AFTER THE POST IS IN THE PROPER POSITION.

3. HORIZONTAL BACK BRACING SHALL ALWAYS BE MOUNTED ON THE FRONT FLANGE OF THE SUPPORT EXCEPT WHERE SIGNS ARE MOUNTED BACK TO BACK. BACK BRACING SHALL NEVER EXTEND ABOVE TOP EDGE OF UPPERMOST SIGN PLATE AND SHALL BE ATTACHED TO SUPPORTS USING 5/16" GALVANIZED STEEL BOLTS.

4. SCREWS, NUTS, AND WASHERS FOR SIGN ERECTION SHALL BE ALUMINUM EXCEPT AS NOTED ABOVE. 5/16" TRUSS HEAD SLOTTED MACHINE SCREWS WITH HEX. NUTS PLAIN AND LOCKWASHERS SHALL BE USED. PLAIN WASHERS SHALL BE 5/16" "WIDE", USED ON SIGN FACE ONLY.

5. SIGN INSTALLATIONS SHALL BE PLACED SO THAT SUPPORTS ARE NOT PLACED IN DRAINAGE DITCHES.

6. HORIZONTAL CLEARANCES SHOWN PERTAIN TO NON-CURBED SECTIONS. SECTIONS WITH UNMOUNTABLE CURB SHALL HAVE A HORIZONTAL CLEARANCE OF 2'-0" MINIMUM FROM THE CURB FACE TO THE SIGN EDGE.

7. VERTICAL AND HORIZONTAL CLEARANCE BETWEEN SIGNS ON ONE ASSEMBLY SHALL BE A MAXIMUM OF 2" AND A MINIMUM OF 1".

8. GALVANIZED STEEL BEARING PLATES SHALL BE INCLUDED BETWEEN ALL SHEET ALUMINUM SIGNS ATTACHED TO VERTICAL SUPPORTS AT EACH SIGN BOLT LOCATION.

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

TYPICAL PLACEMENT OF SIGNS

TPS-1

DATE
9-27-67
7-12-68
5-13-69

APPROVED _____
ENGINEER OF TRAFFIC

This improvement has been declared a Limited Access Highway from Sta. 353+00 to Sta. 579+87.60 by action of the Director of Highways and recorded in Volume 45 Page 1047 of the Director's Journal pursuant to law.

LOCATION SURVEY PLAT

CIRCLE FREEWAY
INTERSTATE ROUTE 275 SEC. 6.68
CLERMONT COUNTY
UNION TOWNSHIP

MILITARY SURVEYS 674, 1935, 2721, 2434, 1138, 1136, 666, 1115

1967

0 200 400 800 1200
SCALE IN FEET

Received ____ ____ ____ 19____
Recorded ____ ____ ____ 19____
Book ____ ____ ____ Page ____ ____

Clermont County Recorder

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(13)	

600
638

3
41

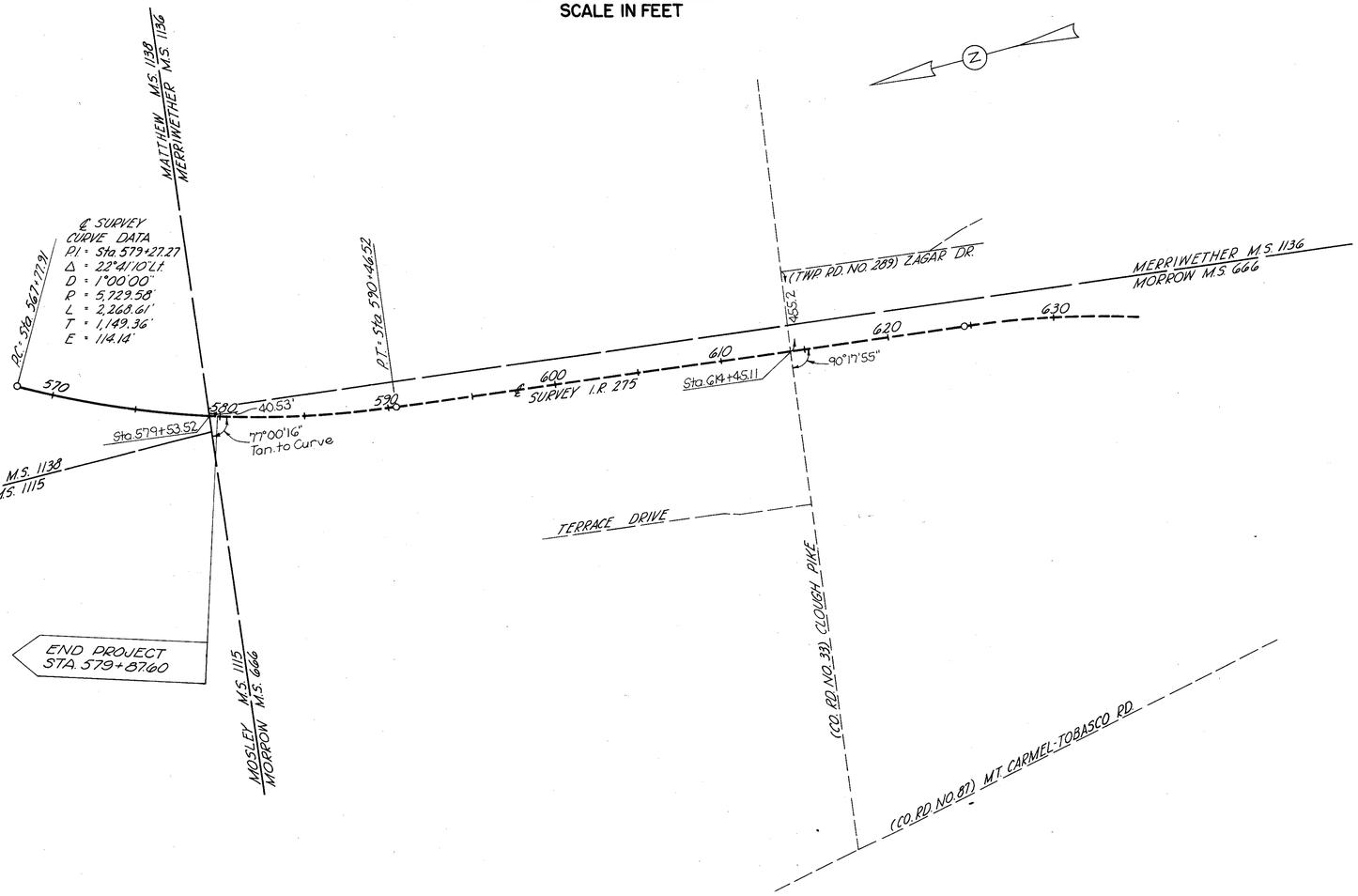
CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS

Signed ____ ____ I.P. Basler ____ ____
Date ____ ____ ____ Division Deputy Director

I hereby certify that this Plat is a true delineation of a survey made for the Ohio Department of Highways in 1967 by Harry Bolke Engineers.

John G. Robinson Date Dec. 11, 1968
CHIEF ENGINEER
REG. SURVEYOR NO. 4515

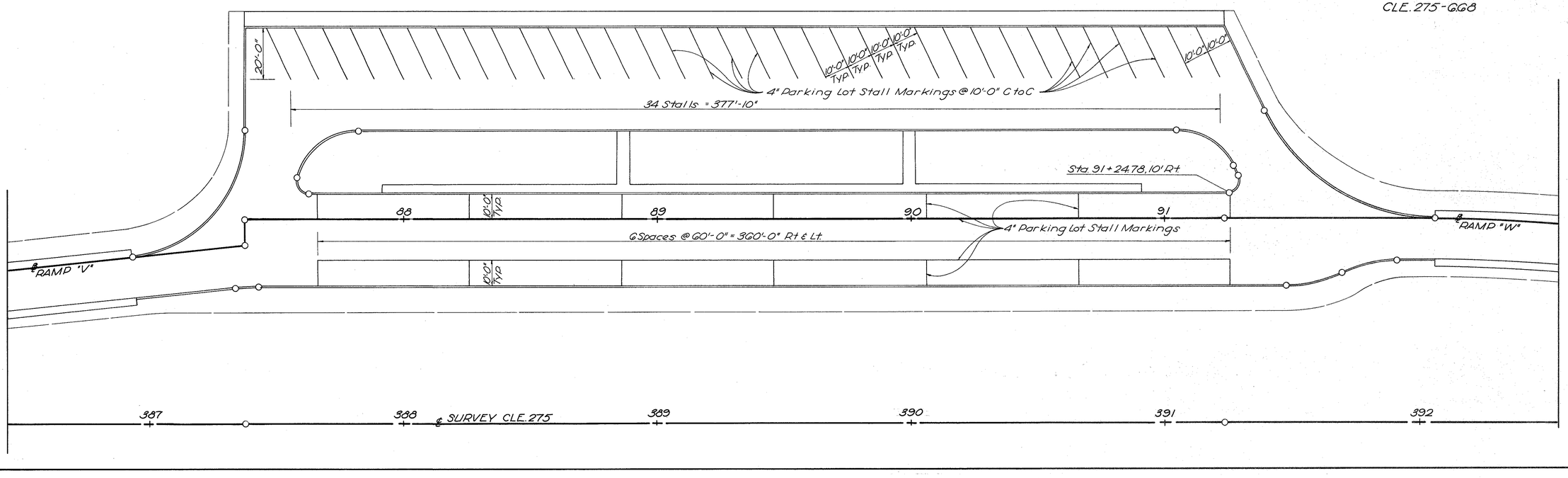
STATE OF OHIO

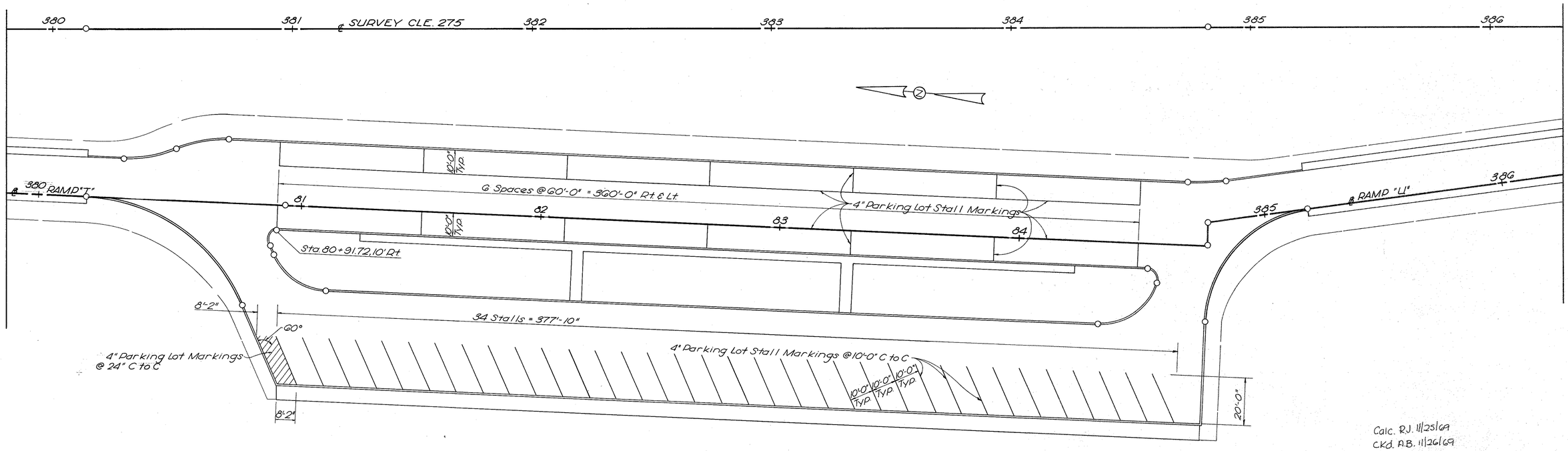


FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

511
638

CLERMONT COUNTY
CLE. 275-6.68





Calc. R.J. 11/25/69
Ck'd. A.B. 11/26/69

REST AREA PARKING LOTS PAVEMENT STRIPING

621 PAVEMENT MARKINGS

LOCATION	SIDE	STATION FROM	STATION TO	6" Lane Line Lin.Ft.	4" Lane Line Lin.Ft.	4" Edge Line Lin.Ft.	Curb Marking Lin.Ft.	Island Marking Sq.Ft.	8" Channelizing Line Lin.Ft.	Broad Traverse Stripes Lin.Ft.	24" Stop Bar Lin.Ft.	Barrier Line Lin.Ft.		
S. B. I-275	Center	353+00	701+90	13,080										
	Center	701+98	733+17	1,170										
	Center	1793+09	1873+25	3,015										
	Med.	353+00	701+90			34,890								
	Med.	701+98	733+17			3,119								
	Med.	1793+08	1873+25			8,017								
	Rt.	353+00	367+75			1,475								
	Rt.	373+29	403+25			2,996								
	Rt.	397+00	532+25			13,525								
	Rt.	537+78	548+84			1,106								
	Rt.	550+03	553+18			315								
	Rt.	556+70	573+16			1,645								
	Rt.	567+88	662+45			9,457								
	Rt.	668+06	687+74			1,968								
	Rt.	682+46	701+13			1,867								
	Rt.	695+83	701+90			607								
	Rt.	701+98	733+17			3,119								
	Rt.	1793+08	1873+25			8,017								
	Rt.	369+94	372+30						466	361				
	Rt.	372+30	373+30						100					
	Rt.	397+00	399+40				144	234	240					
	Rt.	534+52	556+78						447	334				
	Rt.	399+40	403+25		135		136	234						
	Rt.	536+78	537+78						100					
	Rt.	555+08	555+70						121	63				
	Rt.	555+70	556+70						100					
	Rt.	567+88	570+26				165	135	238					
	Rt.	664+65	667+06						475	326				
	Rt.	570+26	573+16		75		121	279						
	Rt.	667+06	668+06						100					
	Rt.	695+83	698+24						241					
	Rt.	698+24	701+12		105									
	Rt.	682+46	684+87						241					
	Rt.	684+87	687+74		105									
N. B. I-275	Center	353+00	701+90	13,080										
	Center	701+98	733+17	1,170										
	Center	1793+09	1873+25	3,015										
	Center	676+03	678+90		105									
	Med.	353+00	701+90			34,890								
	Med.	678+90	681+31						241					
	Med.	701+99	733+17			3,118								
	Med.	1793+09	1873+25			8,016								
	Lt.	353+00	374+75			2,175								
	Lt.	369+47	396+91			2,744								
	Lt.	401+27	535+75			13,448								
	Lt.	530+47	547+09			1,662								
	Lt.	549+80	550+59			79								
	Lt.	551+62	562+62			1,100								
	Lt.	567+50	668+62			112								
	Lt.	663+33	681+31			1,798								
	Lt.	676+02	684+43			1,841								
	Lt.	699+28	701+90			262								
	Lt.	701+98	733+17			3,119								
	Lt.	1793+08	1873+25			8,017								
	Lt.	369+40	372+35		105									
	Lt.	396+91	399+56						530	498				
	Lt.	372+35	374+75						240					
	Lt.	547+09	547+87						156	130				
	Lt.	530+47	533+35		105									
	Lt.	562+67	565+50						579	541				
	Lt.	533+35	535+75						240					
	Lt.	694+43	697+01						529	508				
	Lt.	663+34	666+22		105									
	Lt.	666+22	668+22						240					
Ramp "T"	℄	367+75	380+20			1,245								
	Lt.	372+28	380+20			792								

621 PAVEMENT MARKINGS

LOCATION	SIDE	STATION FROM	STATION TO	6" Lane Line Lin.Ft.	4" Lane Line Lin.Ft.	4" Edge Line Lin.Ft.	Curb Marking Lin.Ft.	Island Marking Sq.Ft.	8" Channelizing Line Lin.Ft.	Broad Traverse Stripes Lin.Ft.	24" Stop Bar Lin.Ft.	Barrier Line Lin.Ft.		
Ramp "T"	Lt.	367+62	369+93		90									
Ramp "U"	℄	385+18	397+00			1,182								
	Lt.	385+18	393+00			782								
	Lt.	390+50	397+00				650							
Ramp "V"	Rt.	374+75	382+00				725							
	℄	374+75	386+96			1,221								
	Rt.	378+75	386+96			821								
Ramp "W"	Rt.	399+56	401+90		90									
	℄	391+97	401+27			930								
	Rt.	391+97	396+92			495								
Barg Salt Run Rd.	Center	39+50	54+50									3,000		
	Rt.	39+50	54+50			1,500								
	Lt.	39+50	54+50			1,500								
Cincinnati-Batavia Pike	Center	45+50	58+50		495									
	Rt.	45+50	58+50			1,300								
	Lt.	45+50	58+50			1,300								
E. B. S.R. 32	Center	54+00	110+55		2,130									
	Med.	54+30	106+14			5,184								
	Rt.	54+55	63+01			846								
	Rt.	64+40	65+66						251	146				
	Rt.	65+66	66+66				138	189						
	Rt.	66+66	77+08			1,042								
	Rt.	78+24	80+25			201								
	Rt.	81+81	82+63						159	136				
	Rt.	82+63	96+04			1,341								
	Rt.	92+44	105+80			1,336								
	Med.	106+75	110+55			385								
	Rt.	107+20	110+55			335								
	Rt.	61+41	66+01		60									
	Rt.	78+24	80+25		75									
	Rt.	92+44	93+64						120					
	Rt.	93+64	96+04		90									
W. B. S.R. 32	Center	54+00	110+55		2,130									
	Med.	54+30	106+14			5,185								
	Lt.	54+40	56+00						160					
	Lt.	54+94	66+00			1,106								
	Lt.	62+40	77+08			1,468								
	Lt.	62+40	64+80		90									
	Lt.	64+80	66+00						120					
	Lt.	77+08	77+85						153	119				
	Lt.	79+46	80+25			79								
	Lt.	80+80	89+23			913								
	Lt.	89+93	90+93				151	207	100					
	Lt.	90+93	92+19						250	142				
	Lt.	93+51	110+55			1,704								
	Med.	106+75	110+55			385								
Ramp "F"	Lt.	553+95	556+63				268							
	℄	532+25	556+63			2,438								
	Lt.	536+73	555+63			1,890								
	Lt.	532+14	534+50		90									
	Lt.	64+80	66+00						120					
SHEET TOTAL				34,530	6,180	213,410	2,498	1,278	7,057	3,304		3000		
Total in Miles														

PAVEMENT MARKING SUB-SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

512
638

CLERMONT COUNTY
CLE 275-6.68

621 PAVEMENT MARKINGS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

513
638

CLERMONT COUNTY
CLE 275-6.68

LOCATION	SIDE	STATION FROM	STATION TO	6" Lane Line	4" Lane Line	4" Edge Line	Curb Marking	Island Marking	8" Channelizing Line	Broad Traverse Stripes	24" Stop Bar	Barrier Line		
				Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Sq.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.		
Ramp "G"	℄	532+14	550+03			1,789								
	Lt.	532+99	535+99		60									
	Lt.	534+48	546+30			1,182								
	Lt.	525+30	547+30				200							
	Lt.	547+30	547+83						53					
	Lt.	547+83	550+03		75									
Ramp "H"	Rt.	529+51	533+35		135									
	Rt.	533+35	535+75						240					
	℄	535+75	557+19			2,144								
	Rt.	535+75	540+25				450							
	Rt.	539+75	554+64			1,489								
	Rt.	555+90	557+19		45									
Ramp "I"	℄	534+05	549+80			1,575								
	Rt.	534+05	536+30		90									
	Rt.	536+30	538+30				200							
	Rt.	537+30	547+12			982								
	Rt.	547+89	548+70		30									
Ramp "J"	℄	543+94	567+88			2,394								
	Lt.	543+94	545+32		45									
	Lt.	546+57	563+88			1,731								
Ramp "K"	℄	553+18	571+15			1,797								
	Lt.	554+32	555+08		30									
	Lt.	555+67	567+91			1,224								
	Lt.	566+91	568+91				200							
	Lt.	568+91	571+15		90									
Ramp "L"	℄	544+23	567+50			2,327								
	Rt.	544+23	546+84				261							
	Rt.	545+23	562+64			1,741								
	Rt.	565+50	567+72		90									
Ramp "M"	℄	550+59	566+77			1,618								
	Rt.	550+59	552+49		75									
	Rt.	552+49	553+32						83					
	Rt.	553+32	555+32				200							
	Rt.	554+32	564+44			1,012								
	Rt.	565+21	566+77		60									
E.B. S.R. 125	Center	44+80	72+00		1,020									
	Rt.	45+92	48+02			210								
	Med.	46+00	51+53			553								
	Rt.	48+74	49+75						201	123				
	Rt.	49+75	50+75				160	153	100					
	Rt.	50+75	59+07			832								
	Med.	52+14	63+35			1,121								
	Rt.	59+77	60+99						239	212				
	Rt.	60+99	63+66			267								
	Med.	63+83	69+75			592								
	Rt.	64+95	69+83			488								
	Med.	70+66	72+00			134								
	Rt.	70+68	72+00			132								

LOCATION	SIDE	STATION FROM	STATION TO	6" Lane Line	4" Lane Line	4" Edge Line	Curb Marking	Island Marking	8" Channelizing Line	Broad Traverse Stripes	24" Stop Bar	Barrier Line		
				Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Sq.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.		
W.B. S.R. 125	Center	44+80	72+00		1,020									
	20Lt.	46+00	46+80						80					
	Med.	46+00	51+53			553								
	Lt.	46+25	50+60			435								
	Lt.	51+90	54+23			233								
	Med.	52+14	63+35			1,121								
	Lt.	54+23	55+34						212	233				
	Lt.	55+86	64+23			837								
	Lt.	63+23	64+23				150	189	100					
	Med.	63+83	69+75			592								
	Lt.	64+23	65+46						244	142				
	Lt.	67+00	72+00			500								
	Med.	70+66	72+00			134								
Mt. Carmel Tobasco Rd.	Lt.	44+80	50+73			72								
	Rt.	46+25	51+33			94								
	Center	50+65	67+08									3,286		
	Lt.	50+73	67+08			1,635								
	Rt.	51+33	67+08			1,575								
Rust Lane	Center	10+00	17+32		282									
	Lt.	10+00	17+43			758								
	Rt.	10+00	17+43			758								
	Center	14+32	17+32									300		
	Rt.	17+32									13			
Nine Mile Rd.	Center	39+90	49+65									1,950		
	Rt.	39+90	49+33			943								
	Lt.	39+90	42+03			213								
	Lt.	42+75	49+33			658								
9 Mile Rd. West Connection	Center	7+75	9+75		200									
	Rt.	7+75	9+88			35								
	Rt.	7+75	9+88			40								
Ramp "N"	℄	662+45	676+25			1,380								
	Lt.	662+60	664+65		75									
	Lt.	666+99	682+66			1,571								
	Rt.	676+25	682+64			703								
	Lt.	676+95	682+59		210									
	Rt.	678+25	682+59		105									
	Lt.	682+44	682+59		15									
	Lt.	682+59									58			
Ramp "O"	℄	663+16	682+46			1,930								
	Lt.	666+29	56+55		30									
	Lt.	667+81	673+46			1,105								
	Lt.	677+46	682+46				500							
Ramp "P"	Rt.	662+38	666+22		150									
	Rt.	666+22	668+62						240					
	℄	668+62	687+70			1,908								
	Rt.	668+62	676+50				788							
	Rt.	672+62	684+98			1,236								
	Rt.	686+20	687+40		45									
					7.7	9.16								
SHEET TOTAL					3,977	48,353	3,109	342	1,792	710	71	5,536		

PAVEMENT MARKING SUB-SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

514
638

CLERMONT COUNTY
CLE 275-6.68

621 PAVEMENT MARKINGS

LOCATION	SIDE	STATION FROM	STATION TO	6" Lane Line Lin. Ft.	4" Lane Line Lin. Ft.	4" Edge Line Lin. Ft.	Curb Marking Lin. Ft.	Concrete Median Sq. Ft.	8" Channelizing Line Lin. Ft.	Broad Traverse Stripes Lin. Ft.	24" Stop Bar Lin. Ft.	Barrier Line Lin. Ft.	Parking Lot Stall Marking Lin. Ft.	
Ramp "Q"	Lt.	678+22	679+02		30									
	℄	678+32	695+83			1,751								
	Lt.	680+01	691+84			1,183								
	Lt.	689+50	695+84				634							
	Lt.	695+84	698+24						240					
	Lt.	698+24	702+17		150									
Ramp "R"	Lt.	680+28	686+00			625								
	Rt.	680+28	694+40			1,414								
	Rt.	680+32									93			
	Rt.	680+37	680+52		15									
	Rt.	680+37	684+50		150									
	℄	686+00	699+28			1,328								
	Rt.	697+01	699+39		90									
Ramp "S"	℄	681+31	700+25			1,894								
	Rt.	681+31	685+92				461							
	Rt.	685+30	695+89			1,059								
	Rt.	697+08	697+88		30									
S.B. Rest Area	Rt & Lt.	80+83	84+79										1,698	
N.B. Rest Area	Rt & Lt.	87+45	91+25										1,618	
SHEET TOTAL					465	3,254	1,095		240		43		3,316	

Calc. R.J. 11/26/69
Ck'd. A.B. 11/27/69

PAVEMENT MARKING SUB-SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

515
038

CLERMONT COUNTY
CLE-275-6.68

LOCATION	SIDE	STATION FROM	STATION TO	SPACING (FT.)	POST A-1	POST C-2	BRKT A-1	BRKT C-2
Mainline S.B.	Rt.	350+30	362+30	200	7			
	Rt.	373+00	391+00	200	10			
	Rt.	411+00	527+00	200	59			
	Rt.	538+00	546+00	200	5			
	Rt.	555+90	563+90	200	5			
	Rt.	579+90	657+90	200	40			
	Rt.	668+00	678+00	200	6			
	Rt.	710+00	732+00	200	12			
Mainline N.B.	Rt.	732+85	710+85	200	12			
	Rt.	708+85					1	
	Rt.	706+85	709+85	200	2			
	Rt.	693+60	685+60	200	5			
	Rt.	654+95	572+95	200	42			
	Rt.	562+25	554+25	200	5			
	Rt.	546+20	540+20	200	4			
	Rt.	523+20	407+20	200	59			
	Rt.	396+20	380+20	200	6			
Sub Total Cle.					279		1	
Mainline S.B.	Rt.	1793+90			1			
	Rt.	1795+90					1	
	Rt.	1797+90	1873+90	200	39			
Mainline N.B.	Rt.	1872+75	1798+75	200	38			
	Rt.	1796+75					1	
	Rt.	1794+75			1			
Total Ham.					79		2	

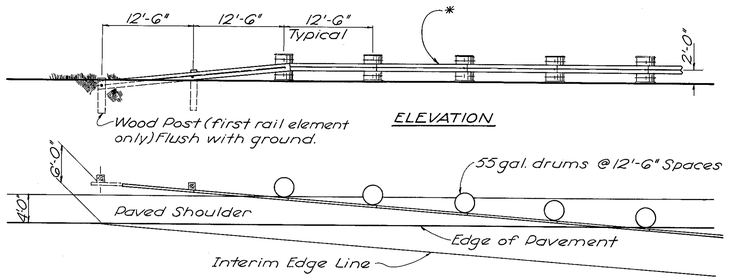
LOCATION	SIDE	STATION FROM	STATION TO	SPACING (FT.)	POST A-1	POST C-2	BRKT A-1	BRKT C-2
S.R. 32	Rt.	66+00	74+00	200	5			
	Rt.	82+60	90+60	200	5			
	Rt.	90+50	84+50	200	4			
	Rt.	77+00	69+00	200	5			
Ramp "F"	Rt.	528+78	536+78	100		9		
	Rt.	536+78	537+58	80		1		
	Rt.	537+58	541+58	80		9		
	Rt.	541+58	542+38	80		1		
	Rt.	542+38	544+38	100		3		
	Rt.	544+38	548+58	70		6		
	Lt.	548+58	554+08	80		12		
	Lt.	554+08	554+80	80		1		
	Rt.	554+88	556+48	80		3		
	Rt.	556+48	571+45 R32	100		9		
Ramp "G"	Rt.	532+14	534+54	50		6		
	Lt.	534+54	537+04	50		5		
	Lt.	537+04	546+34	30		31		
	Rt.	546+34	547+14	80		2		
	Rt.	547+14	549+14	100		2		
	Rt.	550+14 I-275						1
Ramp "H"	Rt.	93+93 SR 32	93+93 SR 32	100		6		
	Rt.	93+93 SR 32	553+60	80		5		
	Lt.	553+60	549+60	50		9		
	Lt.	549+60	548+80	80		1		
	Rt.	548+80	544+80	100		5		
	Rt.	544+80	544+00	80		1		
	Lt.	544+00	540+00	50		9		
	Lt.	540+00	539+20	80		1		
	Rt.	539+20	524+20 I-275	100		16		
Ramp "I"	Rt.	549+80						1
	Rt.	549+20	546+80	60		6		
	Lt.	546+80	537+80	30		31		
	Lt.	537+80	537+20	60		1		
	Rt.	537+20	534+20	100		4		
Ramp "J"	Rt.	67+67 SR 32	62+67 SR 32	100		6		
	Rt.	62+67 SR 32	547+60	80		5		
	Lt.	547+60	551+60	50		9		
	Lt.	551+60	552+40	80		1		
	Rt.	552+40	558+40	100		7		
	Rt.	558+40	559+20	80		1		
	Lt.	559+20	563+20	50		9		
	Lt.	563+20	564+00	80		1		
	Rt.	564+00	578+00 I 128	100		15		
Ramp "K"	Rt.	551+14	552+14	100				2
	Rt.	553+12	556+12	60		7		
	Lt.	556+12	567+22	30		28		
	Lt.	567+22	567+82	60		1		
	Rt.	567+82	569+22	70		3		
	Rt.	569+22	179+24 SR 32	98		3		
Ramp "L"	Rt.	570+95 I 275	562+95	100		9		
	Rt.	562+95	562+15	80		1		
	Lt.	562+15	557+65	50		10		
	Lt.	557+65	556+85	80		1		
	Rt.	556+85	550+85	100		7		
	Rt.	550+85	550+05	80		1		
	Lt.	550+05	546+05	50		9		
	Rt.	546+05	91+12.5 SR 32	80		4		
	Rt.	91+12.5 SR 32	102+12.5 SR 32	100		9		
Sub Total Cle.					19	342		4

LOCATION	SIDE	STATION FROM	STATION TO	SPACING (FT.)	POST A-1	POST C-2	BRKT A-1	BRKT C-2
Ramp "M"	Rt.	566+77	564+27	50		6		
	Lt.	564+27	554+97	30		32		
	Lt.	554+97	554+37	60		1		
	Rt.	554+37	552+77	80		3		
	Rt.	551+77	550+77	100				2
S.R. 125	Rt.	50+57	54+57	200	3			
	Rt.	61+50	63+50	200	2			
	Rt.	65+00	69+00	200	3			
	Rt.	63+50	59+50	200	3			
	Rt.	54+00	52+00	200	2			
	Rt.	50+50	46+50	200	3			
Ramp "N"	Rt.	659+06	668+06	100		10		
	Lt.	668+06	674+06	60		11		
	Rt.	674+06	676+06	100		3		
	Rt.	676+06	676+76	70		1		
	Rt.	676+76	681+16	40		11		
	Rt.	681+16	681+86	70		1		
Ramp "O"	Rt.	58+85 SR 125	667+18	100		5		
	Rt.	667+18	667+78	60		1		
	Lt.	667+78	678+28	30		36		
	Rt.	678+28	679+48	60		3		
	Rt.	679+48	680+48	100		1		
	Rt.	681+48						1
	Rt.	682+48						1
	Rt.	683+48	690+48			8		
Ramp "P"	Rt.	69+00 SR 125	687+70	100		3		
	Rt.	687+70	684+20	70		4		
	Lt.	684+20	682+80	70		3		
	Lt.	682+80	676+80	50		12		
	Lt.	676+80	676+00	80		1		
	Rt.	676+00	657+00	100		20		
Ramp "Q"	Rt.	46+00 SR 125	48+00 SR 125	100		3		
	Rt.	48+00 SR 125	680+70	60		4		
	Lt.	680+70	685+10	40		12		
	Lt.	685+10	685+70	60		1		
	Lt.	685+70	687+30	80		2		
	Rt.	687+30	707+30	100		21		
	Rt.	708+30						1
Ramp "R"	Rt.	701+77	693+77	100		9		
	Lt.	693+77	688+37	60		10		
	Rt.	688+37	685+37	100		4		
	Rt.	685+37	684+67	70		1		
	Rt.	684+67	682+67	40		5		
	Rt.	682+67	681+97	70		1		
	Rt.	681+97	680+97	100		1		
Ramp "S"	Rt.	56+57 SR 125	697+25	100		3		
	Rt.	697+25	695+45	60		3		
	Lt.	695+45	684+65	30		37		
	Rt.	684+65	683+65	100		2		
	Rt.	682+65						1
	Rt.	681+65						1
	Rt.	680+65	678+65	100		8		
Sub Total Cle.					16	303		7

LOCATION	SIDE	STATION FROM	STATION TO	SPACING (FT.)	POST A-1	POST C-2	BRKT A-1	BRKT C-2
Ramp "T"	Rt.	364+30	380+30	100		17		
Ramp "U"	Rt.	385+00	409+00 I-275	100		25		
Ramp "V"	Rt.	386+75	362+75 I-275	100		25		
Ramp "W"	Rt.	405+20 I-275	392+20	100		14		
Sub Total Cle.						81		
Sub Total Cle.					279		1	
Sub Total Cle.					19	342		4
Sub Total Cle.					16	303		7
Total Cle.					314	726	1	11
Total Ham.					79		2	
Grand Total					393	726	3	11

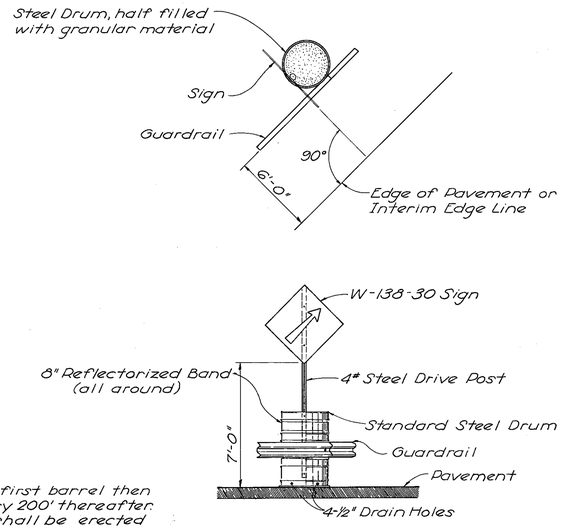
Calc. R.J. 12/16/69
Ck'd. A.B. 12/20/69

620 DELINEATORS-SUB SUMMARY



* See Item 606 Temporary Beam Rail

ANCHOR DETAIL FOR TEMPORARY BEAM RAIL



Note:
Erect W-138-30 signs on first barrel then every 100' for 300' then every 200' thereafter. Double amber delineators shall be erected approximately midway between signs on barrels (C-2).

SIGN ATTACHMENT TO TEMPORARY BEAM RAIL

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

510
G38

CLERMONT COUNTY
CLE. 275-6.68

INTERIM TRAFFIC CONTROL QUANTITIES

SHEET NO	STATION & LOCATION	815 - SIGNS: SIGN SIZE	815 - SIGNS: Sign Erection, Flat Sheet Overlay Type	815 - SIGNS: Sign Erection, Flat Sheet Type	815 - SIGNS: Sign Erection, Extru Sheet Type	816 Interim Steel Drive Post 4" Per Foot as per plan	606 Interim Barrels, as per plan	606 Temporary Beam Guard Rail	620 Interim Delineators as per plan	621 Interim Pavement Markings 4" Edge Line, as per plan		CODE
			S.F.	S.F.	S.F.	L.F.	Each	L.F.	Each	L.F.		
	STATE ROUTE 32											
476	Sta. 66+00						5					
476	Sta. 76+00						5					
477	Sta. 80+40 Sta. 82+40							200				
477	Sta. 90+95 Sta. 92+95							200				
	MAINLINE											
476	Sta. 547+28						6					
476	Sta. 553+72 Sta. 554+70						34					
477	Sta. 547+11 Sta. 562+30	30"x30" (6.3 S.F. Each)		63		9.3		1,500	9	1,460		W-138-30
477	Sta. 553+32						5					
479	Sta. 648+74 · Sta. 667+14	30"x30" (6.3 S.F. Each)		69.3		102.3		1,840	11	1,600		W-138-30
481	Sta. 681+30						7					
	STATE ROUTE 125											
480	Sta. 47+15 Sta. 49+75							200				
480	Sta. 54+35 Sta. 56+35							200				
481	Sta. 63+70 Sta. 64+45							75				
	TOTAL		1323			195.3	62	4,215 Quantities Carried To Sheet No. 25	20	3,060		

GENERAL NOTES

DIVISION 2 | STATE OHIO | PROJECT
CLERMONT COUNTY
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517
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SPECIFICATIONS

THESE NOTES ARE SUPPLEMENTAL TO ITEMS 625 AND 713 OF THE STATE OF OHIO DEPARTMENT OF HIGHWAYS CONSTRUCTION AND MATERIAL SPECIFICATIONS DATED JANUARY 1, 1969.

REFERENCE SHALL BE MADE TO STANDARD CONSTRUCTION DRAWINGS HL-1, HL-2, HL-3, AND HL-4.

IN LIEU OF PERTINENT DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS, THE TOPS OF LIGHT POLE FOUNDATIONS AND OF PULL BOXES SHALL NOT EXCEED 1 INCH ABOVE THE SURROUNDING GROUND ELEVATION AT THE HIGH POINT OF THE SURROUNDING GROUND.

625.03 - GENERAL

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

CINCINNATI GAS & ELECTRIC COMPANY
139 EAST FOURTH STREET
CINCINNATI, OHIO 45202

625.07 - 713.11 LUMINAIRES, EXCEPT UNDERPASS LUMINAIRES

400 WATT LUMINAIRES SHALL HAVE DUAL RATED 240/480 VOLT INTEGRAL REGULATOR BALLASTS AND SHALL BE GENERAL ELECTRIC M400, WESTINGHOUSE OV-25, MCGRAW-EDISON "UNISTYLE", OR EQUAL APPROVED BY THE ENGINEER.

625.08 - 713.14 LAMPS

MERCURY LAMPS SHALL BE GENERAL ELECTRIC "BONUS LINE", WESTINGHOUSE "LIFEGUARD", SYLVANIA "ROUGH SERVICE", OR EQUAL APPROVED BY THE ENGINEER.

625.11 - PULL BOXES

ANCHORING OF AIR BELLS SPECIFIED FOR THIS ITEM MAY BE ACCOMPLISHED BY THE USE OF 4 POLYPROPYLENE ROPES. THE ROPES, IF USED, SHALL BE KNOTTED AT ONE END. THE OTHER ENDS SHALL ENTER THE BOX THROUGH EACH OF 4 EQUALLY-SPACED HOLES AROUND THE UPPER CIRCUMFERENCE OF THE BOX. THE ENTERING ENDS OF EACH TWO OPPOSING ROPES SHALL BE PULLED TIGHT AND TIED TOGETHER OVER THE AIR BELL TO HOLD IT SECURELY IN PLACE.

IN ADDITION TO THE REQUIREMENTS OF THIS ITEM, A TREATED 1" x 2" WOOD STAKE OR 3/8" DIAMETER ALUMINUM OR STEEL PIN AT LEAST 30 INCHES LONG SHALL BE DRIVEN INTO THE CENTER OF THE PULL BOX. THE CONNECTOR KITS IN THE BOX SHALL BE SECURELY TAPED TO THE TOP OF THE STAKE OR PIN IN SUCH A MANNER THAT ALL PARTS OF THE KITS ARE SUSPENDED WITHIN THE AIR BELL ABOVE THE ELEVATION OF THE UPPERMOST OPENING OR NOTCH CUT INTO THE LOWER CIRCUMFERENCE OF THE AIR BELL.

OPENINGS OR NOTCHES MAY BE FIELD CUT IN THE BELL TO MATCH THE LOWER OPENINGS IN THE PULL BOX IF NECESSARY TO SECURE A FIRM SEATING FOR THE BELL. THIS OPERATION, HOWEVER, MUST NOT REDUCE THE SIZE OF THE AIR CHAMBER BELOW THAT REQUIRED FOR SUSPENSION OF THE CONNECTOR KITS ABOVE THE UPPER ELEVATION OF THE LOWER EDGE OF THE BELL IN PLACE.

PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EACH PULL BOX.

625.12 - TRENCH

EXCAVATION FOR TRENCHES SHALL NOT EXCEED TWELVE (12) INCHES IN WIDTH WITHOUT PRIOR APPROVAL OF THE ENGINEER.

625.14 - 625.15 CABLE AND DUCT-CABLE IDENTIFICATION

ALL CABLES, EXCEPT STRUCTURE GROUNDING SYSTEM CABLE, ENTERING AN ACCESSIBLE ENCLOSURE SUCH AS A PULL BOX, JUNCTION BOX, HANDHOLE, TRANSFORMER BASE, OR DEVICE HOUSING, ETC., FOR THE PURPOSE OF BEING TERMINATED OR CONNECTED TO ANOTHER CABLE SHALL BE IDENTIFIED IN SUCH ENCLOSURE WITH TAGS OR BANDS AS DESCRIBED IN 713.18.

NO CABLE SPLICES WILL BE PERMITTED BETWEEN TERMINATIONS. EXOTHERMICALLY WELDED JOINTS IN STRUCTURE GROUNDING SYSTEMS ARE NOT CONSIDERED AS SPLICES.

PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE RESPECTIVE CABLE ITEMS.

PROTECTION OF COMPLETED WORK

CONDUIT AND/OR DUCT CABLE TERMINALS SHALL BE SEALED, AS REQUIRED BY 625.13, IMMEDIATELY UPON COMPLETION OF INSTALLATION.

EMPTY CONDUITS SHALL BE CAPPED OR OTHERWISE CLOSED IMMEDIATELY UPON INSTALLATION UNTIL PULL WIRE OR CABLE IS INSTALLED AND FINAL SEALING COMPLETED.

LIGHT POLE HAND HOLES AND OPENINGS OF TRANSFORMER BASE POLES SHALL HAVE COVERS INSTALLED IMMEDIATELY UPON ERECTION OF POLE.

ALL CABLE CONNECTOR KITS AND EXPOSED CABLE ENDS SHALL BE ADEQUATELY PROTECTED BY ENCLOSING IN PLASTIC BAGS, TAPING, OR OTHER APPROVED MEANS, UNTIL CABLE CONNECTIONS HAVE BEEN COMPLETED.

PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES BID FOR EACH OF THE RESPECTIVE ITEMS.

LIGHT POLE ANCHOR BOLTS FOR BRIDGES AND RETAINING WALLS

ANCHOR BOLTS FOR MOUNTING LIGHT POLES ON BRIDGES AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF 713.01 AND DETAILS SHOWN ON THE PLANS AND STANDARD DRAWINGS FOR THE RESPECTIVE POLES TO BE PLACED THEREON. PAYMENT SHALL BE MADE AT THE UNIT PRICE BID FOR EACH U OR L BOLT OF THE SIZE SPECIFIED AND THIS PAYMENT SHALL CONSTITUTE FULL COMPENSATION FOR FURNISHING AND PLACING THE BOLTS.

CONDUIT ON STRUCTURES

EXPANSION FITTINGS FOR CONDUIT ON STRUCTURES SHALL BE OZ TYPE AX, SPRING CITY TYPE AF, APPLETON TYPE XJ-4, OR EQUAL APPROVED BY THE ENGINEER.

ELECTRICAL SERVICE FOR ILLUMINATED SIGNS

THE PAY ITEMS IN THE LIGHTING GENERAL SUMMARY INCLUDE THE PULL BOX OR JUNCTION BOX ADJACENT TO EACH LIGHTED SIGN AND THE ELECTRICAL SERVICE CONNECTIONS LEADING INTO THE BOX, INCLUDING CONNECTOR KITS IN THE PULL BOX OR JUNCTION BOX. QUANTITIES FOR ELECTRICAL SERVICE FROM THE CONNECTOR KITS IN THE PULL BOX OR JUNCTION BOX TO THE SIGN ARE INCLUDED IN THE TRAFFIC CONTROL GENERAL SUMMARY.

ITEM 625 - CONDUIT JACKED UNDER PAVEMENT, AS PER PLAN

THIS ITEM SHALL CONSIST OF INSTALLING CONDUIT OF THE SIZE OR SIZES INDICATED UNDER EXISTING PAVEMENT AND CONTIGUOUS SHOULDERS BY AN APPROVED METHOD SUCH AS "DRILLING" OR "JACKING".

THE CONTRACTOR SHALL PLACE THE CONDUIT WITH THE LEAST AMOUNT OF DISTURBANCE TO THE EXISTING PAVEMENT, SUBBASE, BERM PAVEMENT, OR SHOULDERS OF THE ROADWAY. ALL PUSH PITS OR ANY NECESSARY EXCAVATIONS SHALL BE BACKFILLED AND RESTORED IN ACCORDANCE WITH 625.01. MEASUREMENT OF THE CONDUIT SHALL BE THE ACTUAL AMOUNT OF LINEAL FEET INSTALLED UNDER PAVEMENT AND SHOULDERS, MEASURED IN PLACE, AS ACCEPTED BY THE ENGINEER. THE UNIT PRICE BID FOR ITEM 625 "CONDUIT JACKED UNDER PAVEMENT, AS PER PLAN" SHALL BE FULL COMPENSATION FOR EXCAVATION, DRILLING OR JACKING, BACKFILLING, COMPACTION, RESTORATION, AND ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED.

625.05 LIGHT POLES

AS EACH POLE IS ERECTED ON ITS FOUNDATION THE HANDHOLE COVER AND/OR TRANSFORMER BASE DOOR SHALL BE INSTALLED AND CLOSED TO PREVENT DIRT AND DEBRIS FROM ENTERING.

625.06 LIGHT POLE FOUNDATIONS

WHERE SUBSURFACE OBSTRUCTIONS ARE ENCOUNTERED, THE ENGINEER MAY REQUIRE THE CONTRACTOR TO:

1. REMOVE THE OBSTRUCTION, OR
2. REPLACE THE EXCAVATED MATERIAL AND RELOCATE THE FOUNDATION AS DIRECTED BY THE ENGINEER.
   ALSO, WHERE SOLID ROCK IS ENCOUNTERED, THE REMAINING DEPTH TO BE EXCAVATED MAY BE DECREASED AS DIRECTED BY THE ENGINEER TO A MAXIMUM OF 50 PERCENT.

625.07 LUMINAIRES

LUMINAIRES PREDOMINATELY ILLUMINATING A MAIN LINE ROADWAY SHALL BE POSITIONED PERPENDICULARLY THERETO.

625.24 AND 625.25 METHOD OF MEASUREMENT, BASIS OF PAYMENT

PAYMENT FOR JUNCTION BOXES IN TYPE B RACEWAY CONDUIT ON STRUCTURES SHALL INCLUDE THE 1-1/2" DIAMETER 90° CONDUIT ELBOW SHOWN ON STANDARD CONSTRUCTION DRAWING HL-4.

LIGHTING GENERAL NOTES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE.-275-6.68

★ 100% State

ITEM	STRUCTURES: TOTAL STR. NO. 1042 SHEET NO.	STRUCTURE NO.1291 SHEET	STRUCTURE NO.1291 NUMBER	TOTAL STR. NO. 1291	TOTAL STR. NO. 1342 SHEET NO.	ROADWAY: REST AREA SOUTH SHEET	REST AREA SOUTH NUMBER	REST AREA NORTH NUMBER	STATE ROUTE 32 SHEET	STATE ROUTE 32 NUMBER	STATE ROUTE 125 SHEET	STATE ROUTE 125 NUMBER	GRAND TOTAL	ITEM	UNIT	DESCRIPTION	Code G203	Code Y021
	527	532	533		533	521			525	527	531	533						
625						3	1			13	1	4	22	625	Each	Light Pole, Design 11A 15B 32.5	18	4
625	2	1	1	2									4	625	Each	Light Pole, Design 7A 12B 30	4	
625										1		2	3	625	Each	Light Pole, Design 11A 10B 32.5	3	
625						3	5	9	23	14	12		66	625	Each	Light Pole, Design 11AT 15B 34.2	58	8
625						1	1	2	5	4	2		15	625	Each	Light Pole, Design 11AT 10B 34.2	13	2
625						3	3						6	625	Each	Light Pole, Design 11T 15BB 34.2		6
625						10	10	11	42	19	20		112	625	Each	Light Pole Foundation, 24"x6' Deep	92	20
625						1	1	2	6	4	4		18	625	Each	Luminaire, Type II, 400 Watt, 713.11	16	2
625	2	1	1	2		6	6	9	36	15	16		92	625	Each	Luminaire, Type III, 400 Watt, 713.11	80	12
625						6	6						12	625	Each	Luminaire, Type IV, 400 Watt, 713.11		12
625	2	1	1	2		13	13	11	42	19	20		122	625	Each	Lamp, 400 Watt, 713.14 Mercury	96	26
625								1	2	1	1		5	625	Each	Glare Shield, 713.11, 400 Watt Luminaire	5	
625						10	10	11	42	19	20		112	625	Each	Ground Rod	92	20
625						4	4	10	35	15	18		86	625	Each	Pull Box, 18" Circular, 713.09	78	8
625									4	6	1		11	625	Each	Pull Box, 24" Circular, 713.09	11	
625											2		2	625	Each	Marker	2	
625						1,012	3,122	2,913	7,994	4765	4,358		24,164	625	Lin.Ft.	Trench 24" Deep	20,030	4134
625						1,347	726	321	2,930	365	1,576		7,275	625	Lin.Ft.	Trench 4'6" Deep	5,192	2083
								82	80	72	70		304	625	Lin.Ft.	Conduit, 2" 713.04, TYPE II or III, CONCRETE ENCASED	304	
625	538	53	50	103	175	1,093	350		98	10	78		2,445	625	Lin.Ft.	Conduit, 2" 713.04, Type II or III	1,002	1443
625						121	146	274	526	356	267		1,690	625	Lin.Ft.	Conduit, 3" 713.04, Type II or III	1,423	267
625	544								464				1,008	625	Lin.Ft.	No. 1/0 AWG, 600 Volt Distribution Circuit Cable	1,008	
625								168		738			906	625	Lin.Ft.	No. 2 AWG, 600 Volt Distribution Circuit Cable	906	
625	572	116	110	226	370	1,088	1,092	460	1,354	830	630		6,622	625	Lin.Ft.	No. 4 AWG, 600 Volt Distribution Circuit Cable	4,442	2180
625	168	84	84	168		1,046	1,254	1,069	3,943	1,837	1,916		11,201	625	Lin.Ft.	No. 10 AWG, 19 Strand Pole and Bracket Cable	9,101	2100
625									2,276				2,276	625	Lin.Ft.	1 1/2" Duct-Cable with Two No. 1/0 AWG. 600 Volt Cables	2,276	
625								1,869	21122	2354	1260		7,605	625	Lin.Ft.	1 1/2" Duct-Cable with Two No. 2 AWG. 600 Volt Cables	7,605	
625						1,945	3,442	1,241	8004	3224	5630		23,486	625	Lin.Ft.	1 1/2" Duct-Cable with Two No. 4 AWG. 600 Volt Cables	18,099	5387
625						6	4	2	24	6	18		60	625	Each	Connector Kit, Type I	50	10
625	2	1	1	2	1	10	10	13	48	22	23		131	625	Each	Connector Kit, Type II	111	20
625	2	1	1	2	1	10	10	13	48	22	23		131	625	Each	Connector Kit, Type III	111	20
625						2	4	4	28	14	10		62	625	Each	Connector Kit, Type IV	56	6
625								6	18	30	2		56	625	Each	Connector Kit, Type III A	56	
625								4	4	4	4		16	625	Each	Connector Kit, Type III B	16	
625										2			2	625	Each	Connector Kit, Type III C	2	
625									Lump				Lump	625	Lump	Service Pole and Components * (C.B)	Lump	
625										Lump			Lump	625	Lump	Service Pole and Components * (B.M)	Lump	
625									1				1★	625	Each	37.5 KVA. Distribution Transformer	1	
625										1			1★	625	Each	25 KVA. Distribution Transformer	1	
625	2	1	1	2	1								5	625	Each	Structure Grounding System	5	
625	2	1	1	2	1								5	625	Each	Structure Junction Box	5	
625	4	2	2	4	2								10	625	Each	Light Pole Anchor U Bolts For Structure, 713.01	10	
625									199	138			337	625	Lin.Ft.	Conduit 3" 713.04, Type II or III, Jacked Under Pavement as per plan	337	

Calc. J.R. 12/16/69
Ck'd. A.B. 12/21/69

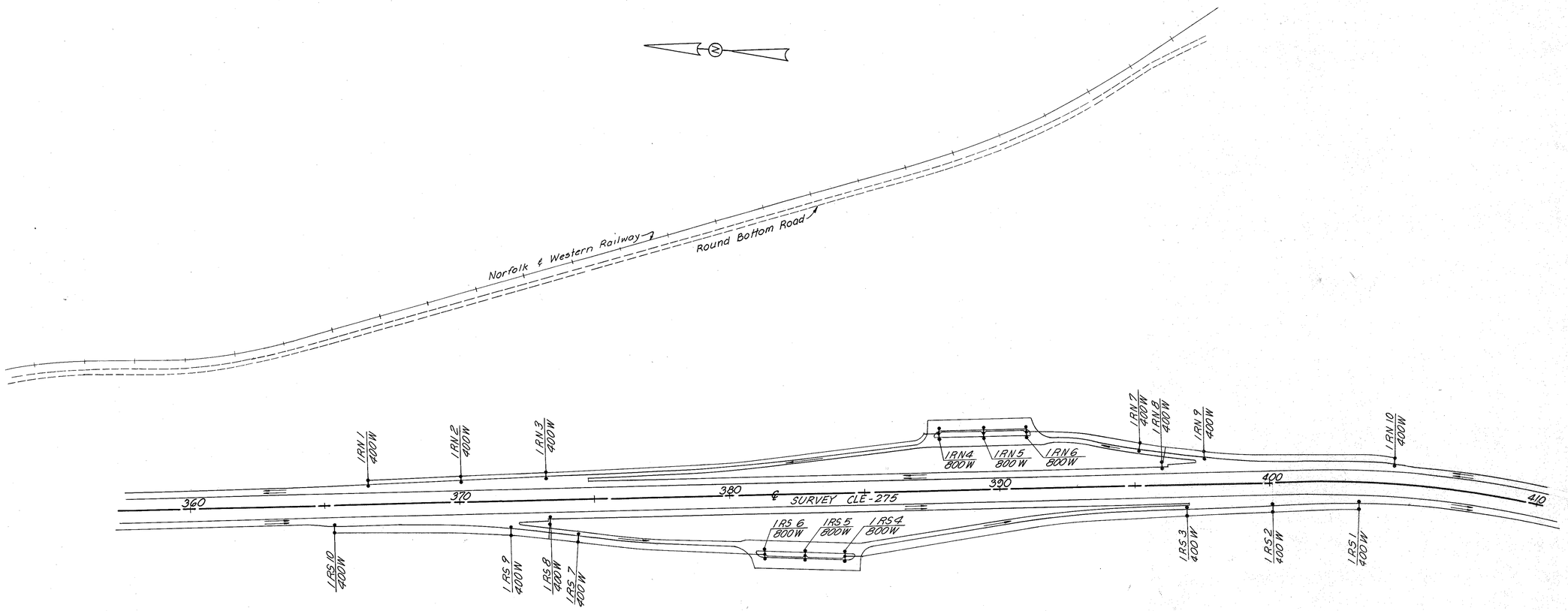
* For Components See Sht. No. 535

LIGHTING - GENERAL SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

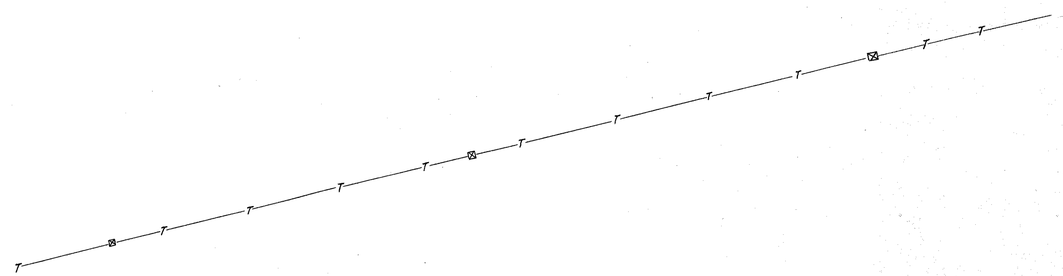
519
698

CLERMONT COUNTY
CLE. 275-6.68



LEGEND

- Proposed Luminaire Mainline and Ramps Wattage Given
- Proposed Luminaire Rest Areas, Parking Areas, Wattage Given
- ——T——T—— Transmission Line
- — Proposed Lighting Circuit

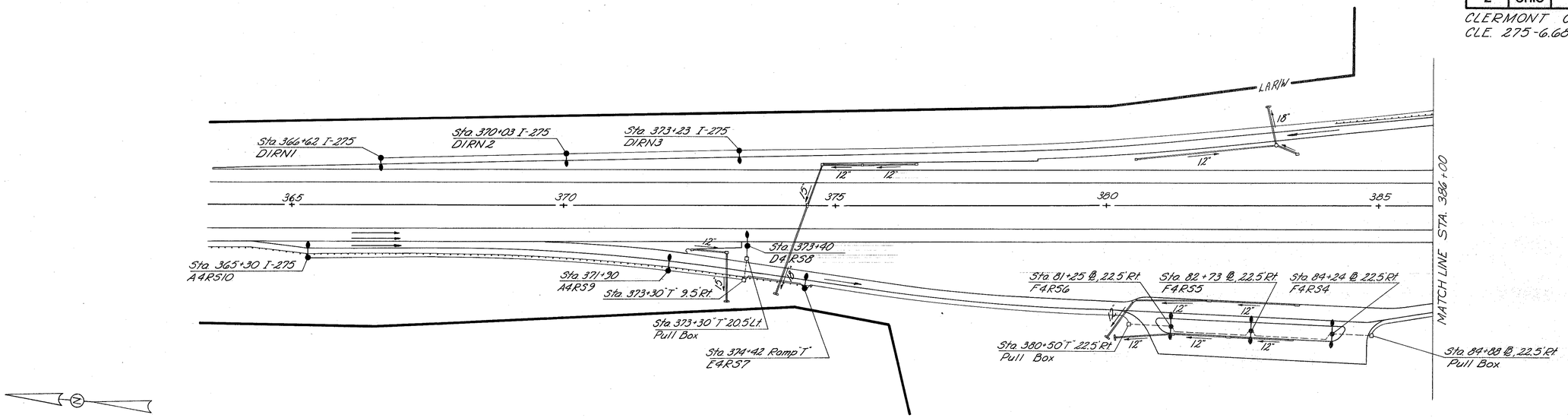


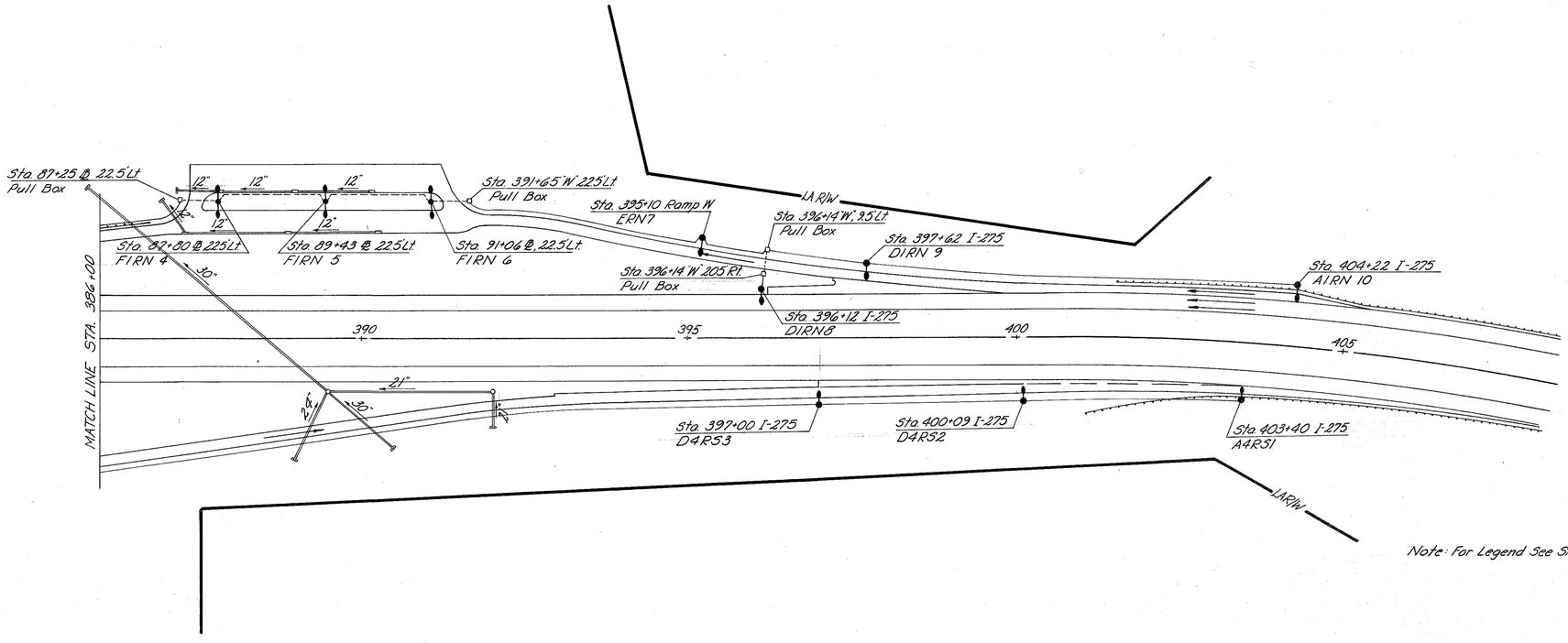
LIGHTING SCHEMATIC

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

520
638

CLERMONT COUNTY
CLE. 275-6.68





Note: For Legend See Sheet No. 523

LIGHTING PLAN

LIGHTING QUANTITIES SUB-SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

521/638

CLERMONT COUNTY
CLE.275-668

REFERENCE NO.	SIDE	STATION TO STATION		Light Pole Design 11A5B325	Light Pole Design 11AT15B342	Light Pole Design 11AT10B342	Light Pole Design 11T15BB342	Light Pole Foundation 24"x6'	Luminaire Type II 400 Watt	Luminaire Type III 400 Watt	Luminaire Type IV 400 Watt	Lamp 400 Watt	Ground Rod	Pull Box 18"Circular	Trench 24" Deep	Trench 4'-6" Deep	Conduit 2" Type II or III	Conduit 3" Type II or III	Dist. Circuit cable No. 4	Pole & Bracket Cable No. 10 A.W.G. 19 Strand	Duct cable 600 V. 1½" Two No. 4	Connector Kit Type I	Connector Kit Type II	Connector Kit Type III	Connector Kit Type IV
				Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Ea.	Ea.	Ea.	Ea.
	Rt.	365+30		1				1		1		1	1							95			1	1	
	Rt.	365+30	371+90												660						670				
	Rt.	371+90		1				1		1		1	1							95			1	1	
	Rt.	371+90	373+30T												140						150				
	Rt.	373+30T												1								2			
	Rt/Lt.	373+30T													32			32	84						
	Lt.	373+30T												1								2			
	Lt.	373+30T	373+40												20						30				
	Rt.	373+40			1			1		1		1	1							99			1	1	
	Rt.	373+30T	374+42T												112						122				
	Rt.	374+42T				1		1	1			1	1							89			1	1	
	Rt.	374+42T	80+50 ℄												62						72				
	Rt.	80+50 ℄												1								2			
	Rt.	80+50 ℄	81+25 ℄													75		25	170						
	Rt.	81+25 ℄					1	1			2	2	1							125			1	1	
	Rt.	81+25 ℄	82+73 ℄													160	160		340						
	Rt.	82+73 ℄					1	1			2	2	1							125			1	1	
	Rt.	82+73 ℄	84+24 ℄													163	163		346						
	Rt.	84+24 ℄					1	1			2	2	1							125			1	1	
	Rt.	84+24 ℄	84+88 ℄													64		64	148						
	Rt.	84+88 ℄												1											2
	Rt.	84+88 ℄	397+00												231						241				
	Rt.	397+00			1			1		1		1	1							99			1	1	
	Rt.	397+00	400+09												309						319				
	Rt.	400+09			1			1		1		1	1							99			1	1	
	Rt.	400+09	403+40												246	85					341				
	Rt.	403+40		1				1		1		1	1							95			1	1	
		Total S.B. Rest Area		3	3	1	3	10	1	6	6	13	10	4	1012	1947	1093	121	1088	1046	1945	6	10	10	2
	Lt.	366+62			1			1		1		1	1							99			1	1	
	Lt.	366+62	370+03												341						351				
	Lt.	370+03			1			1		1		1	1							99			1	1	
	Lt.	370+03	373+23												320						330				
	Lt.	373+23			1			1		1		1	1							99			1	1	
	Lt.	373+23	87+25 ℄												1432						1432				
	Lt.	87+25 ℄												1											2
	Lt.	87+25 ℄	87+80 ℄													55		55	130						
	Lt.	87+80 ℄					1	1			2	2	1							125			1	1	
	Lt.	87+80 ℄	89+43 ℄													175	175		370						
	Lt.	89+43 ℄					1	1			2	2	1							125			1	1	
	Lt.	89+43 ℄	91+06 ℄													175	175		370						
	Lt.	91+06 ℄					1	1			2	2	1							125			1	1	
	Lt.	91+06 ℄	91+65 ℄													59		59	138						
	Lt.	91+65 ℄												1								2			
	Lt.	91+65 ℄	395+10W												347						357				
	Lt.	395+10W				1		1				1	1							89			1	1	
	Lt.	395+10W	396+14W												104						114				
	Lt.	396+14W												1											2
	Lt.	396+14W	397+62												148						158				
	Lt.	397+62			1			1		1		1	1							99			1	1	
	Lt.	397+62	404+22												388	272					670				
	Lt.	404+22		1				1		1		1	1							95			1	1	
	Rt/Lt.	396+14W													32			32	84						
	Rt.	396+14W												1								2			
	Rt.	396+14W	396+12												20						30				
	Rt.	396+12			1			1		1		1	1							99			1	1	
		Total N.B. Rest Area		1	5	1	3	10	1	6	6	13	10	4	3122	736	350	146	1092	1054	3442	4	10	10	4

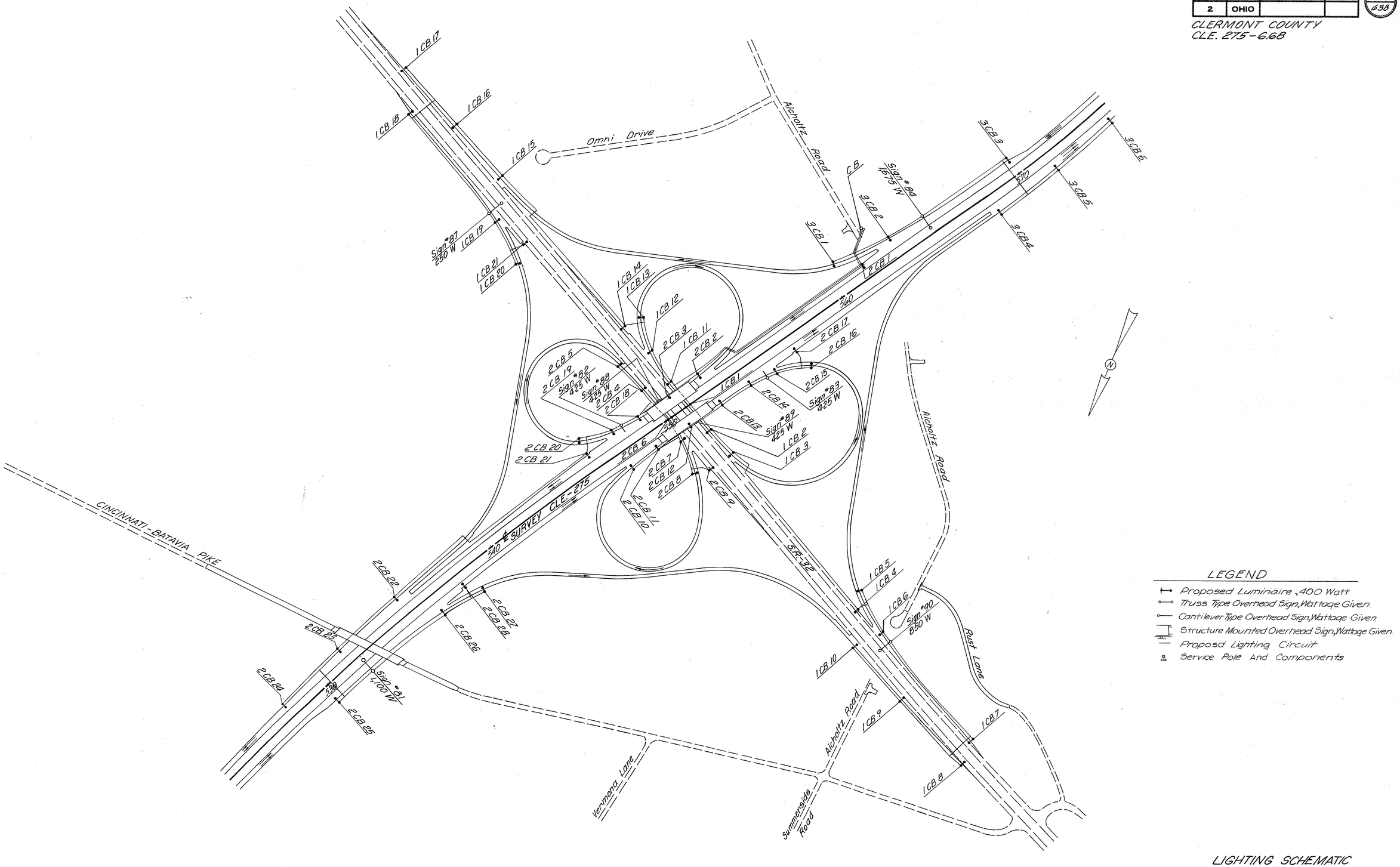
Calc. J.R. 12/17/69
Ckd. A.B. 12/21/69

LIGHTING QUANTITIES - REST AREAS INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

522
698

CLERMONT COUNTY
CLE. 275-6.68



LEGEND

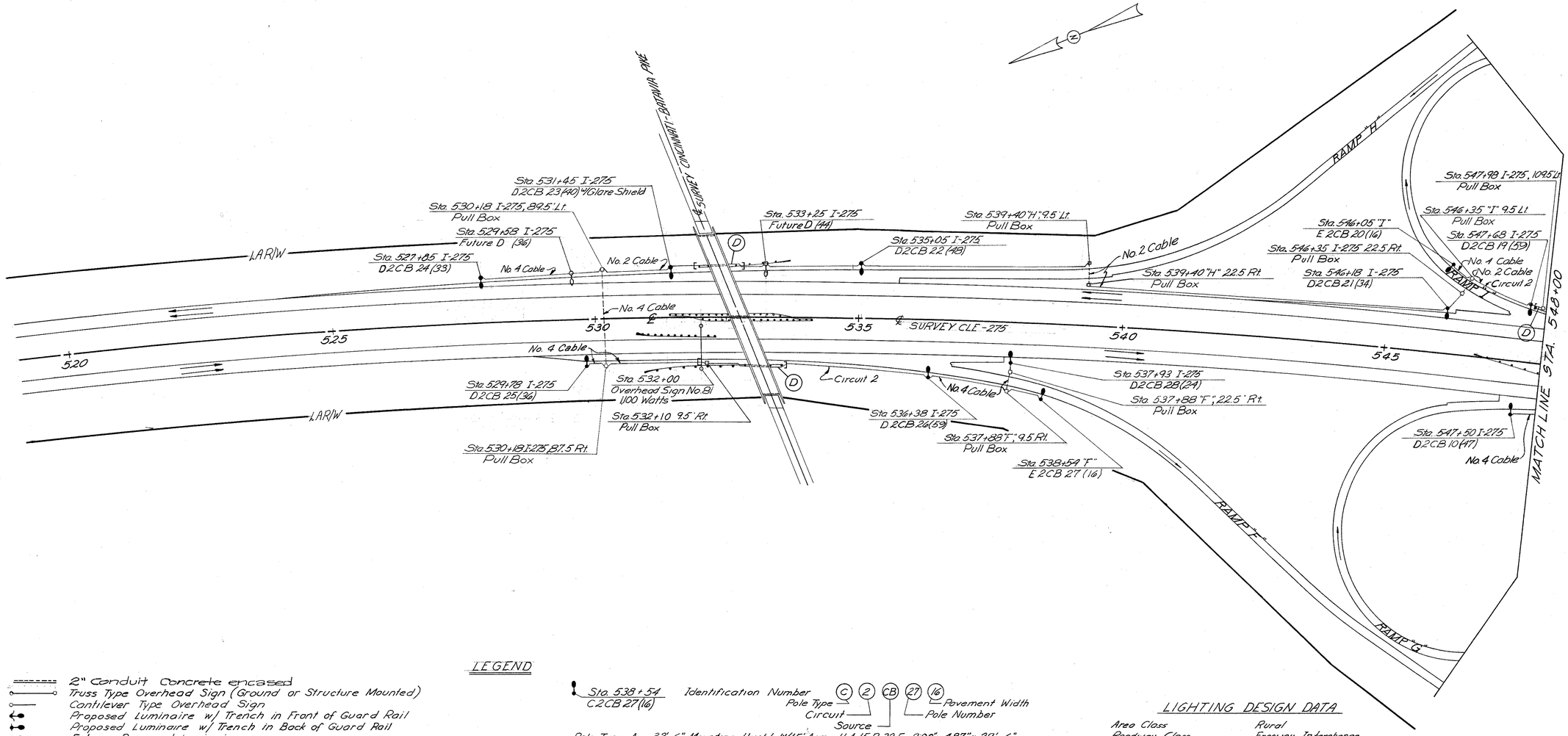
- Proposed Luminaire, 400 Watt
- Truss Type Overhead Sign, Wattage Given
- Cantilever-Type Overhead Sign, Wattage Given
- Structure Mounted Overhead Sign, Wattage Given
- Proposd Lighting Circuit
- Service Pole And Components

LIGHTING SCHEMATIC

FED. RD. DIVISION	STATE	PROJECT	
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CLERMONT COUNTY
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LEGEND

- 2" Conduit Concrete encased
- Truss Type Overhead Sign (Ground or Structure Mounted)
- Cantilever Type Overhead Sign
- Proposed Luminaire w/ Trench in Front of Guard Rail
- Proposed Luminaire w/ Trench in Back of Guard Rail
- Future Proposed Luminaire
- Pull Box
- Duct Cable (Shallow)
- Circuit Cable Enclosed in Conduit 3" Rigid Ferrous Metal Type II or III (1 Circuit)
- Circuit Cable Enclosed in Conduit 3" Rigid Ferrous Metal Type II or III (2 Circuit)
- Guard Rail
- Circuit Cable in Conduit 2" Rigid Ferrous Metal Types II or III
- Service Pole and Components
- Duct Cable (Deep) (D)

Sta. 538+54 / C2CB 27(16) — Identification Number: Pole Type (C), Circuit (2), Source (CB), Pole Number (27), Pavement Width (16)

Pole Type A	32'-6" Mounting Height	4/15' Arm	11A15B 32.5~9.00"x4.87"x29'-6"
Pole Type B	30'-0" Mounting Height	4/12' Arm	11A12B 30~8.00"x4.22"x27'-0"
Pole Type C	32'-6" Mounting Height	4/10' Arm	11A10B 32.5~8.00"x3.87"x29'-6"
Pole Type D	34'-2" Mounting Height	4/15' Arm	11AT15B 34.2~9.00"x4.87"x29'-6"
Pole Type E	34'-2" Mounting Height	4/10' Arm	11AT10B 34.2~8.00"x3.87"x29'-6"

LIGHTING DESIGN DATA

Area Class	Rural
Roadway Class	Freeway Interchange
Intensity	1.2 FC Initial Max.
Minimum Intensity	0.2 FC Initial Min. (Future)
Uniformity Ratio	6:1 (Future)
Distribution Type	ASA-IES Type III (Mainline) ASA-IES Type II (Ramps)
Lamp Designation	H33-1CD (Clear 400W)
Lamp Design Output	19,200 Lum. Initial Horz.
Lamp Factor	0.936
Mounting Height	32'-6"
M.H. Correction Factor	0.853
Luminaire Overhang	3 Ft.
Photometric Data	LM Test No. E-359-131
System Power	480 V - 1 ϕ

Power Supplied By Cincinnati Gas and Electric Co.

LIGHTING PLAN

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MATCH LINE STA. 88+00

L.A.R/W

RAMP "H"

RAMP "I"

RAMP "M"

RAMP "L"

No.4 Cable
Circuit 1

Sta.83+72 S.R. 32
DICB 14(33)

Sta 563+22 "M"
EICB 13(16)

Sta 563+40 "M", 9.5' Lt.
Pull Box

Sta 563+40 "M", 22.5' Rt.
Pull Box

No.2 Cable

Sta 82+50 S.R.32
D2CB 5(47)

Sta 82+22 S.R. 32
DICB 12(64)

No.4 Cable

Sta. 80+83 S.R.32
DICB 11(39)

Sta 80+84 S.R.32
A2CB 4(37)

Sta. 550+77 I-275
B2CB 3(36)

Sta. 80+00 S.R. 32, 66' Rt.
Pull Box

Overhead Sign No.88
On Structure 425 Watts
Sta 80+10 S.R.32, 66' Lt.
Pull Box

Sta. 552+47 I-275
A2 CB 2 (44)

No.2 Cable

No.1 Cable

Sta 548+08
Overhead Sign No.82
425 Watts

Sta 549+09 I-275
A2CB 18(38)

No.1 Cable

Sta 549+31 I-275
Pull Box

No.4 Cable

Sta. 79+87, 60' Lt.
Pull Box

Sta 549+05 I-275
A2CB 11(37)

Sta 549+33 I-275, 88' Rt.
Pull Box

Sta 78+28 S.R.32, 78' Lt.
Pull Box

Sta. 77+68 S.R. 32
D.2CB 7(59)

Overhead Sign No.89
On Structure, 425 Watts

Sta 535+23 "G" 9.5 Rt.
Pull Box

Sta 535+45 "G"
E2CB8(16)

Sta 535+23 "G" 22.5' Lt.
Pull Box

Sta 76+18 S.R.32
D2CB 9(34)

Sta. 554+25 "M" 9.5' Lt.
Pull Box

Sta. 554+25 "M" 22.5 Rt.
Pull Box

No.1/0 Cable

Sta. 79+08 S.R. 32
A1CB 1(36) w/Glare Shield

Sta. 79+18 S.R. 32
A2CB 6(37) w/Glare Shield

Sta. 552+53 I-275
A2CB 13(36)

Sta 78+34, 65' Rt.
Pull Box

No.2 Cable

Sta 78+53 S.R. 32
DICB 2(37)

Sta 554+17 I-275
A2CB 14(40)

Sta 554+98
Overhead Sign No.83
425 Watts

Sta 550+85 I-275
B2CB 12(36)

Sta 555+08 110' Rt.
Pull Box

Sta 76+00 S.R. 32
DICB 3(47)

No.4 Cable

Sta 567+90 "K", 9.5' Rt.
Pull Box

Sta 567+90 "K" 22.5' Lt.
Pull Box

Sta 555+47 I-275
D2CB 15(63)

No.4 Cable

Sta 556+77 I-275
D2CB 17(34)

Sta 556+60 "K", 22.5' Lt.
Pull Box

Sta 577+07 "K"
E2CB 16(16)

Sta 556+60 "K", 9.5' Rt.
Pull Box

Sta 561+85 "L", 9.5' Lt.
Pull Box

Sta 560+74 "L"
C3CB1(16)

No.1/0 Cable

Sta 561+85 I-275
D2CB1(24)

"C B" Service Pole & Components

Sta 561+85 "L", 22.5' Lt.
Pull Box

No.4 Cable

Sta 563+35 I-275
A3CB2(59)

Sta 564+93 100' Lt.
Pull Box

Sta 565+03
Overhead Sign No.84
1675 Watts

Sta 569+80 I-275, 87.5' Lt.
Pull Box

Sta 569+95 I-275
A3CB3(36)

Sta 568+38 I-275
A3CB4(48)

L No.4 Cable

Sta 571+50 I-275
A3CB5(41)

Sta 574+84 I-275
A3CB6(35)

L.A.R/W

Sta 569+80 I-275, 96.5' Lt.
Pull Box

Sta 569+90 I-275
Future A(45)

Sta 573+14 I-275
Future A(36)

MATCH LINE STA. 88+00

Sta 552+86 "H"
EICB 20(16)

Sta. 553+60 "H" 9.5' Rt.
Pull Box

Sta 553+60 "H" 22.5' Lt.
Pull Box

Sta 89+83 S.R.32
DICB 21(24)

No.4 Cable

Sta. 91+33 S.R. 32
DICB 19(53)

Sta 91+90.54' Lt.
90 Pull Box

Circuit 1

Sta. 92+94 S.R.32
DICB 15(46)

Sta. 546+00 "L", 9.5' Rt.
Pull Box

Sta. 546+00 "L", 22.5' Lt.
Pull Box

Sta. 92+00
Overhead Sign No.87
250 Watts

No.4 Cable

Sta 94+52 S.R.32
Future D(42)

Sta. 97+78 S.R.32 65.5' Lt.
Pull Box

Sta. 97+93 S.R.32
DICB 18(36)

Existing R/W

Sta 99+63 S.R. 32
DICB 17(29)

Sta. 97+88 S.R. 32
Future D(34)

Existing R/W

Sta. 97+78 S.R. 32, 63.5' Rt.
Pull Box

Sta. 96+17 S.R. 32
DICB 16(38)

MATCH LINE STA. 70+00

Sta 548+35 Ramp "J"
E ICB 5(16)

Sta 547+70 Ramp "J", 9.5' Rt.
Pull Box

Sta 65+26 S.R. 32
DICB 6(52)

Sta. 64+68 S.R. 32, 70' Rt.
Pull Box

Sta. 58+77 S.R.32, 65.5' Rt.
Pull Box

Sta. 58+67 S.R. 32
DICB 7(35)

Existing R/W

Sta 547+70 "J" 22.5' Lt.
Pull Box

No.4 Cable

Sta. 64+58

Overhead Sign No. 90
850 Watts

No.4 Cable

Sta 66+76 S.R. 32
DICB 4(24)

Circuit 1

No.4 Cable

No.4 Cable

Sta 65+50 S.R.32
DICB 10(46)

Sta 60+34 S.R.32
Future D(33)

Sta 62+17 S.R.32
DICB 9(37)

Sta 63+88 S.R.32
Future D(42)

Sta. 58+14 S.R. 32
DICB 8(27)

Sta. 58+77 S.R. 32, 58.5' Lt.
Pull Box

No.4 Cable

Circuit 1

MATCH LINE STA. 70+00

Note: For Legend See Sht. No. 323

LIGHTING PLAN

LIGHTING QUANTITIES SUB-SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
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CLERMONT COUNTY
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| REFERENCE NO. | SIDE | STATION TO STATION | | Light Pole Design 11A15B32.5 | Light Pole Design 7A12B30 | Light Pole Design 11A10B 32.5 | Light Pole Design 11AT15B 34.2 | Light Pole Design 11AT10B 34.2 | Light Pole Foundation 24"x6' | Luminaire Type II 400 Watt | Luminaire Type III 400 Watt | Lamp 400 Watt | | Glare Shield | Ground Rod | Pull Box 18" Circular | Pull Box 24" Circular | Trench 24" Deep | Trench 4'-6" Deep | Conduit 2" Type II or III Concrete Encased | Conduit 2" Type II or III | Conduit 3" Type II or III | Dist. Circuit Cable No. 1/0 | Dist. Circuit Cable No. 2 | Dist. Circuit Cable No. 4 | Pole & Bracket Cable No. 10 AWG 19 Strand | | Duct Cable 600V 1½" Two No. 1 | Duct Cable 600V 1½" Two No. 2 | Duct Cable 600V 1½" Two No. 4 | | Connector Kit Type I | Connector Kit Type II | Connector Kit Type III | Connector Kit Type IV | Connector Kit Type VIII A | Connector Kit Type VIII B | | Structure Junction Box (24"x 12"x 10") | Light Pole Anchor U Bolts for Structure | Structure Ground System | AHA Distribution Control Panel and Protective Equipment | Service Pole and Components | Conduit 3" RGS (or Type III Concrete) Encased, as per Plan | | |

LIGHTING QUANTITIES SUB-SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
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| REFERENCE NO. | SIDE | STATION TO STATION | Light Pole Design 11A 158 325 | Light Pole Design 7A 128 30 | Light Pole Design 11A 108 325 | Light Pole Design 11AT 158 342 | Light Pole Design 11AT 108 342 | | Light Pole Foundation 24"x6' | Luminaire Type II 400 Watt | Luminaire Type III 400 Watt | Lamp 400 Watt | | Glare Shield | Ground Rod | Pull Box 18" Circular | Pull Box 24" Circular | Trench 24" Deep | Trench 4'-6" Deep | Conduit 2" Type II thru III Concrete Encased | Conduit 2" Type II or III | Conduit 3" Type II or III | Dist Circuit Cable No 1/0 | Dist Circuit Cable No 2 | Dist Circuit Cable No 4 | Pole & Bracket Cable No 10 AWG 19 Strand | | Duct Cable 600 V 1/2" Two No 1/0 | Duct Cable 600 V 1/2" Two No 2 | Duct Cable 600 V 1/2" Two No 4 | | Connector Kit Type I | Connector Kit Type II | Connector Kit Type III | Connector Kit Type IV | Connector Kit Type VIII A | Connector Kit Type VIII B | | Structure Junction Box (24"x12"x10") | Light Pole Anchor J Bolts for Structure | Structure Ground System | KVA Distribution Transformer and Protective Equipment | Service Pole and Components | Conduit 3" 71304 Type II or III Jacked Under Pavements as per plan | | |

LIGHTING QUANTITIES SUB-SUMMARY

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REFERENCE NO.	SIDE	STATION TO STATION	Light Pole Design 11A 13B 32.5	Light Pole Design 11A 12B 30	Light Pole Design 11A 10B 32.5	Light Pole Design 11AT 13B 34.2	Light Pole Design 11AT 10B 34.2	Light Pole Foundation 22"x 4'	Luminaire Type II 400 Watt	Luminaire Type III 400 Watt	Lamp 400 Watt		Glare Shield	Ground Rod	Pull Box 18" Circular	Pull Box 24" Circular	Trench 24" Deep	Trench 46" Deep		Conduit 2" Type II or III	Conduit 3" Type II or III	Dist. Circuit Cable No. 1/0	Dist. Circuit Cable No. 2	Dist. Circuit Cable No. 4	Pole "Bracket Cable No. 10 AWG 19 Strand"		Duct Cable 600V 1#2 Two No. 10	Duct Cable 600V 1#2 Two No. 2	Duct Cable 600V 1#2 Two No. 4		Connector Kit Type I	Connector Kit Type II	Connector Kit Type III	Connector Kit Type IV	Connector Kit Type III A	Connector Kit Type III B		Structure Junction Box (24"x 12"x 10")	Light Pole Anchor U Bolts for Structure	Structure Ground System	#4 Distribution, Transformer Protective Equipment	Service Pole and Component	Conduit "Steel" Type II & III Decked Under Pavement or Sidewalk Exception	
			Each	Each	Each	Each	Each	Each	Each	Each	Each		Each	Each	Each	Each	Lin.Ft.	Lin.Ft.		Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.		Lin.Ft.	Lin.Ft.	Lin.Ft.		Each	Each	Each	Each	Each	Each		Each	Each	Each	Each	Lump	Each	
	Rt.	547+70 J 548+35 J					1		1	1				1			65								89			15					1	1									
	Rt.	548+35 J 547+70 J 65+26 SR32						1		1	1			1			148								99				158				1	1									
	Rt.	65+26 SR32 64+68 SR32				1		1		1	1			1			36	22							99				68				1	1									
	Rt.	64+68 SR32													1		463	128											601						2								
	Rt.	64+68 SR32 58+77 SR32													1		10												20														
	Rt.	58+77 SR32 58+67 SR32				1		1		1	1			1											99								1	1									
	Rt.	58+77 SR32																																								52
	Rt.	58+77 SR32													1																											
	Rt/Lt.	58+77 SR32															27				27				74																		
	Lt.	58+77 SR32													1																	2										
	Lt.	58+77 SR32																							110																45	
	Lt.	58+77 SR32													1																				2							
	Lt.	58+77 SR32 58+14 SR32															63												73													
	Lt.	58+14 SR32				1		1		1	1			1											99								1	1									
	Lt.	58+77 SR32 62+17 SR32															360												350													
	Lt.	62+17 SR32				1		1		1	1			1											99								1	1									
	Lt.	62+17 SR32 65+50 SR32															333												343													
	Lt.	65+50 SR32				1		1		1	1			1											99								1	1									
	Rt.	80+00 SR32 80+83 SR32															70	13										93														
	Rt.	80+83 SR32				1		1		1	1			1											99								1	1									
	Rt.	80+83 SR32 82+22 SR32															139											149														
	Rt.	82+22 SR32				1		1		1	1			1											99								1	1									
	Rt.	82+22 SR32 563+40 M															133											143														
	Lt.	563+40 M													1																					2							
	Lt.	563+40 M 563+22 M															18												28														
	Lt.	563+22 M				1	1	1	1		1			1											89								1	1									
	Rt/Lt.	563+40 M															32				32				84																		
	Rt.	563+40 M													1																	2										
	Rt.	563+40 M 83+72 SR32															60												70														
	Rt.	83+72 SR32				1		1		1	1			1											99								1	1									
	Rt.	83+72 SR32 546+00 L															696												706														
	Lt.	546+00 L													1																	2										
	Rt/Lt.	546+00 L															32				32				84																		
	Rt.	546+00 L													1																	2										
	Rt.	546+00 L 92+94 SR32															227												237														
	Rt.	92+94 SR32				1		1		1	1			1											99								1	1									
	Rt.	92+94 SR32 96+17 SR32															323												333														
	Rt.	96+17 SR32				1		1		1	1			1											99								1	1									
	Rt.	96+17 SR32 97+78 SR32															161												171														
	Rt.	97+78 SR32													1																				2							
	Rt.	97+78 SR32 99+63 SR32															185												195														
	Rt.	99+63 SR32				1		1		1	1			1											99								1	1									
	Rt.	97+78 SR32																							120																50	
	Rt.	97+78 SR32													1																	2										
	Rt/Lt.	97+78 SR32															27				27				74																		
	Lt.	97+78 SR32													1																	2										
	Lt.	97+78 SR32																							104																52	
	Lt.	97+78 SR32													1																				2							
	Lt.	97+78 SR32 97+93 SR32																											25													
	Lt.	97+93 SR32				1		1		1	1			1											99								1	1									
	Lt.	97+78 SR32 91+81 SR32															533	158											607													
	Lt.	91+81 SR32													1																											
	Lt.	91+81 SR32 91+33 SR32															36	12											58													
	Lt.	91+33 SR32				1		1		1	1			1											99								1	1									
	Lt.	91+33 SR32 553+60 H															140												150													
	Lt.	553+60 H													1																				2							
	Lt.	553+60 H 552+86 H															74												84													
	Lt.	552+86 H					1		1	1		1		1											89								1	1									
	Rt/Lt.	553+60 H															32				32				84																		
	Rt.	553+60 H													1																	2										
	Rt.	553+60 H 89+83 SR32															26												36														
	Lt.	89+83 SR32				1		1		1	1			1											99								1	1									
		Sub-Total This Sheet				14	3	17	3	14	17			17	16		4444	333			150				850	1653			460	4313			16	19	19	10							199	
		Sub-Total Sheet No. 525	3			4	2	9	2	7	9			9	7		730	340			44	64			328	760				1084			4	10	10	8								
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		Total Plan Sheet No. 529	13		1	23	5	40	6	36	42		2	42	35	4	7994	2930			98	526	462		1354	3943			22%	2122	9004		24	48	48	48	18	4					199	
		Sub-Total Struc. No. 1042 Sht. No. 526		1						1	1										262		544		84								1	1					1	2	1			
		Sub-Total Struc. No. 1042 Sht. No. 525		1						1	1										276				572	84							1	1					1	2	1			
		Total Structure No. 1042		2						2	2										538		544		572	168							2	2					2	4	2			

Calc. J.R. 11/19/69
Ckd. A.B. 12/21/69

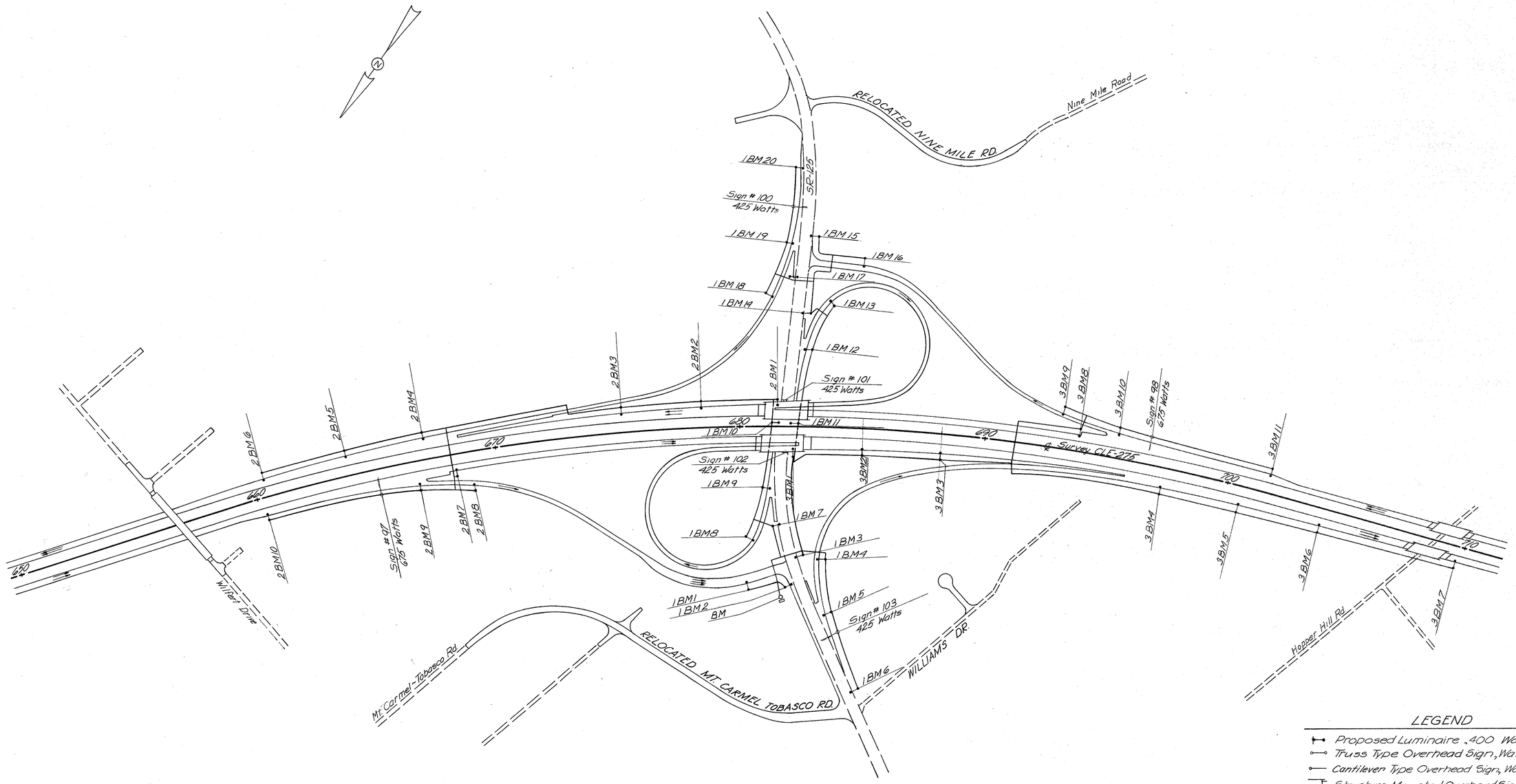
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LIGHTING QUANTITIES - SR 32 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE. 275-6.68



LEGEND

- Proposed Luminaire, 400 Watt
- Truss Type Overhead Sign, Wattage Given.
- Cantilever Type Overhead Sign, Wattage Given.
- Structure Mounted Overhead Sign, Wattage Given.
- Proposed Lighting Circuit
- Service Pole And Components

LIGHTING SCHEMATIC

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CLERMONT COUNTY
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MALLARD DRIVE

WILFERT DRIVE

SURVEY CLE. 275

Sta. 658+69 I-275
Future D (28)

Sta. 660+49 I-275
D2 BM 6 (32)

Sta. 660+26 I-275
D2 BM 10 (36)

Sta. 662+00 I-275
Future D (36)

Sta. 662+28 I-275
Future D (36)

Sta. 663+71 I-275
Future D (38)

Sta. 663+90 I-275
D2 BM 5 (39)

Sta. 664+21
Overhead Sign No. 97
675 Watts

Sta. 664+31 I-275 42' Rt.
Pull Box

Sta. 665+28 I-275
Future D (46)

Sta. 665+53 I-275
Future D (43)

Sta. 666+70 I-275
D2 BM 9 (59)

No. 4 Cable

Sta. 667+10 I-275
D2 BM 4 (46)

Sta. 668+14 I-275, 99.5' Lt.
Pull Box

Sta. 668+14 I-275, 74.5' Rt.
Pull Box

Sta. 668+62 I-275
Future D (49)

Sta. 668+05 "N" 95' Rt.
Pull Box

Sta. 668+81 "N"
E2 BM 8 (16)

Sta. 668+24 I-275
D2 BM 7 (24)

Sta. 670+07 "P"
Future D (54)

No. 2 Cable

Sta. 671+42 "P"
Future D (60)

Sta. 672+66 "P"
Future D (69)

Sta. 673+10 "P" 95' Lt.
Pull Box

Sta. 672+66 "P"
Future D (31)

Sta. 673+10 "P" 22.5' Rt.
Pull Box

Sta. 675+15 I-275
D2 BM 3 (36)

Sta. 676+82, I-275
Future D (40)

Power Sub-Station

Mt. Moriah Road

RAMP "P"

RAMP "N"

RAMP "O"

LARIM

Sta. 680+57 "N"
E1 BM 1 (36)

Sta. 680+90 I-275, 99.5' Lt.
Pull Box

Sta. 678+94 I-275
D2 BM 2 (43)

Sta. 680+01 I-275
Future D (46)
Circuit 2

Sta. 67+76 S.R. 125
D1 BM 20 (37)

Sta. 66+17 S.R. 125
Future A (39)

Sta. 65+76
Overhead Sign No. 100
425 Watts

Sta. 65+66 S.R. 125, 52' Lt.
Pull Box

Sta. 64+63 S.R. 125
D1 BM 19 (54)

Circuit 1
No. 4 Cable

Sta. 683+90 "P" 9.5' Lt.
Pull Box

Sta. 683+90 "P" 22.5' Rt.
Pull Box

Sta. 683+14 "P"
E1 BM 18 (16)

Sta. 63+19 S.R. 125
D1 BM 17 (25)

Sta. 63+09 S.R. 125, 34.5' Lt.
Pull Box

SURVEY S.R. 125

Sta. 58+25 S.R. 125, 34.5' Lt.
Pull Box

Sta. 681+53 I-275
B2 BM 1 (49)

Overhead Sign No. 101
On Structure, 425 Watts

Sta. 58+06 S.R. 125, 34.5' Lt.
Pull Box

Sta. 57+27 S.R. 125
A2 BM 10 (30) w/Glare Shield

Sta. 56+00 S.R. 125, 48.5' Lt.
Pull Box

Sta. 56+10 S.R. 125
Future D (35) w/Glare Shield
Circuit 2

No. 2 Cable

Sta. 54+75 S.R. 125
D2 BM 9 (52)

Circuit 2

Sta. 668+20 "O", 22.5' Lt.
Pull Box

Sta. 668+20 "O" 9.5' Rt.
Pull Box

Sta. 669+03 "O"
E2 BM 8 (16)

Sta. 53+47 S.R. 125
D2 BM 7 (25)

No. 4 Cable

No. 2 Cable

Sta. 52+10 S.R. 125, 34.5' Lt.
Pull Box

circuits 1 & 3

Circuit 2

No. 4 Cable

Sta. 682+10 "N" 24.5' Lt.
Pull Box

Sta. 682+10 "N" 27.5' Rt.
Pull Box

No. 2 Cable
No. 4 Cable

No. 4 Cable

Sta. 50+81 S.R. 125
D1 BM 2 (36)

Sta. 50+60 S.R. 125, 75' Lt.
"BM" - Service Pole & Components

LIGHTING DESIGN DATA

Area Class	Rural
Roadway Class	Freeway Interchange
Intensity	1.2 F.C. Initial Max.
Minimum Intensity	0.2 F.C. Initial Min. (Future)
Uniformity Ratio	6:1
Distribution Type	ASA-IES Type III-MC (Mainline) ASA-IES Type II-MC (Ramps)
Lamp Designation	H-33-ICD
Lamp Design Output	19,200 Lum. Initial Horz.
Lamp Factor	0.936
Mounting Height	32'-6"
M.H. Correction Factor	0.853
Luminaire Overhang	3 Ft.
Photometric Data	L.M. Test No. E-359-131
System Power	480 Y - 1 ø
Power Supplied By Cincinnati Gas and Electric Co.	

NOTE: For Legend See Sheet No. 530

LIGHTING PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
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Sta 64+88 S. R. 125
DIBM 15 (24)

Sta. 681+15 "R" 17.5' Lt
Pull Box

Sta 682+45 "R"
C1BM 16 (24)

Sta 681+15 "R", 22.5' Rt
Pull Box

Sta 63+09 S.R. 125, 34.5' Rt
Pull Box

No. 4 Cable

Sta 694+95 "S", 22.5' Rt
Pull Box

Sta 694+24 "S"
E1BM 13 (16)

Sta 61+83 S.R. 125
DIBM 14 (25)

Sta. 694+95 "S" 9.5' Lt
Pull Box

No. 4 Cable

Sta 60+37 S.R. 125
DIBM 12 (53)

2 Circuit 1

Sta 58+91 S.R. 125
Future D (36)

RAMP S

RAMP R

LARW

Sta 692+92 "R"
C3BM 9 (16)

Sta 693+70 "R" 9.5' Lt
Pull Box

Sta 693+70 "R", 22.5' Rt
Pull Box

Sta 693+79 I-275
D3BM8 (24)

Sta 695+17 I-275
A3BM 10 (56)

Sta 696+55 I-275
Future A (45)

Sta 697+45
Overhead Sign No. 98
675 Watts

Sta 698+14 I-275
Future A (38)

Sta 699+85 I-275
Future A (36)

Sta 701+59 I-275
A3BM 11 (36)

Sta 691+00 I-275 79.5' Lt
Pull Box

No. 4 Cable Circuit 3

Sta 697+35 I-275
Pull Box

Sta 692+55 "Q"
Marker (Cable)

Sta. 57+33 S.R.-125
A1BM11 (29) w/Glare Shield

Sta 682+70 I-275, 100' Rt
Pull Box

Sta 56+43 S.R. 125, 34.5 Rt
Pull Box
Overhead Sign No. 102
On Structure A25 Watts

Sta 682+10 I-275
B3BM 1 (50)

No. 2 Cable
No. 4 Cable

Circuit 3

Sta 684+96 I-275
D3BM 2 (43)

Sta 683+51 I-275
Future (47)

No. 4 Cable

No. 2 Cable

Sta 694+35 I-275
Future A (52)

Sta 692+91 I-275
Future A (57)

Sta 695+83 I-275
Future A (49)

Circuit 3

No. 4 Cable

Sta 698+92 I-275
Future D (44)

Sta 697+35 I-275
D3BM4 (96)

Sta 700+55 I-275
D3BM5 (39)

Sta 704+05 I-275
D3BM6 (32)

Sta 702+31 I-275
Future D (36)

Sta 705+85 I-275
Future A (28)

Sta 709+73
A3BM 7 (24)

Sta 707+69 I-275
Future B (24)

Sta 707+30 I-275, 81' Rt
Pull Box

HOPPER HILL RD.

SURVEY CLE 275

Sta 658+25 I-275
D3BM 3 (36)

Sta 690+04 I-275
Future D (33)

Sta 691+10 "Q" 9.5' Rt
Pull Box

Sta 691+65 Q
Future D (65)

Sta 686+53 I-275
Future D (40)

Sta 691+00 I-275 36.5 Rt
Pull Box

Sta 56+00 S.R. 125, 34.5' Rt
Pull Box

CIRCUIT 1
No. 4 cable

Circuit 3
No. 2 cable
No. 4 cable

Circuit 1

Sta 52+10 S.R. 125 34.5 Rt
Pull Box

Sta 52+00 S.R. 125
DIBM 3 (25)

Sta 682+00 "Q" 9.5' Rt
Pull Box

Sta 681+96 "Q"
E1BM 14 (16)

Sta 682+00 "Q" 22.5' Lt
Pull Box

No. 4 Cable

Sta 49+35 S.R. 125
DIBM 5 (53)

Sta. 48+62 S.R. 125, 52' Rt.
Pull Box

Sta 48+52
Overhead Sign No. 103
425 Watts

Sta 47+89 S.R. 125
Future D (36)

Sta 46+15 S.R. 125
DIBM 6 (28)

48"

LEGEND

- 2" Conduit Concrete Encased
- Truss Type Overhead Sign (Ground or Structure Mounted)
- Cantilever Type Overhead Sign
- Proposed Luminaire w/ Trench in Front of Guard Rail
- Proposed Luminaire w/ Trench in Back of Guard Rail
- Future Proposed Luminaire
- Pull Box
- Duct Cable (Shallow)
- Circuit Cable Enclosed in Conduit 3" Rigid Ferrous Metal Type II or III (1 Circuit)
- Circuit Cable Enclosed in Conduit 3" Rigid Ferrous Metal Type II or III (2 Circuits)
- Circuit Cable Enclosed in Conduit 3" Rigid Ferrous Metal Type II or III (3 Circuits)
- Guard Rail
- Circuit Cable in Conduit 2" Rigid Ferrous Metal Types II or III
- —T— Transmission Line
- Service Pole and Components
- Markers (Cable)
- Duct Cable (Deep)
- (D)

Sta. 692 + 92
C3 BM 1 (16)

Identification Number
Pole Type
Circuit
Source
Pavement Width
Pole Number

Pole Type A 32'-6" Mounting Height 4"/15' Arm 11A15B 32.5-900"x 48.7"x 29'-6"
Pole Type B 30'-0" Mounting Height 4"/12' Arm 7A12B 30-8.00"x 42.2"x 27'-0"
Pole Type C 32'-6" Mounting Height 4"/10' Arm 11A10B 325-8.00"x 38.7"x 29'-6"
Pole Type D 34'-2" Mounting Height 4"/15' Arm 11AT 15B 342-900"x 48.7"x 29'-6"
Pole Type E 34'-2" Mounting Height 4"/10' Arm 11AT 10B 342-8.00"x 38.7"x 29'-6"

LIGHTING PLAN

LIGHTING QUANTITIES SUB-SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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REFERENCE NO.	SIDE	STATION TO STATION		Light Pole Design 11A15B32.5 Each	Light Pole Design 11A12B30 Each	Light Pole Design 11A10B32.5 Each	Light Pole Design 11AT15B34.2 Each	Light Pole Design 11AT10B34.2 Each	Light Pole Foundation 24"x6' Each	Luminaire Type II 400 Watt Each	Luminaire Type III 400 Watt Each	Lamp 400 Watt Each	Glare Shield Each	Ground Rod Each	Pull Box 18" Circular Each	Pull Box 24" Circular Each	Trench 24" Deep Lin.Ft.	Trench 4'6" Deep Lin.Ft.	Conduit 2" Type II or III Concrete Encased Lin.Ft.	Conduit 2" Type II or III Lin.Ft.	Conduit 3" Type II or III Lin.Ft.	Dist. Circuit Cable No. 2 Lin.Ft.	Dist. Circuit Cable No. 4 Lin.Ft.	Pole & Bracket Cable No. 10 AWG, 19 Strand Lin.Ft.	Duct Cable 600 V. 1 #2 Two No. 2 Lin.Ft.	Duct Cable 600 V. 1 #4 Two No. 4 Lin.Ft.	Connector Kit Type I Each	Connector Kit Type II Each	Connector Kit Type III Each	Connector Kit Type III A Each	Connector Kit Type III B Each	Connector Kit Type III C Each	Structure Junction Box (24"x18"x10") Each	Light Pole Anchor U Bolts to Structure Each	Structure Ground System Each	Rural Distribution Transformer and Protective Equipment Each	Service Pole and Components Lump	Marker (Cable) Each	Conduit 3" 7 GA. Type II or III, Jacked Under Pavement as per plan Lin.Ft.
	Rt.	GG0+26					1		1					1			345	60								1	1									
	Rt.	GG0+26	GG4+31													1	229	10							415		1	1									
	Rt.	GG4+31															135								249		1	1									
	Rt.	GG6+70					1		1		1	1		1								99			148		1	1									
	Rt.	GG6+70	GG8+05"N"													1	76								86				2								
	Rt.	GG8+05"N"	GG8+81"N"					1	1	1		1		1			49			49		118					1	1									
	Rt.	GG8+05"N"	GG8+14													1												2								
	Rt.	GG8+14															10								20												
	Rt.	GG8+14	GG8+24				1		1		1	1		1								99					1	1									
	Rt./Lt.	GG8+14															139			159					338					2						
	Lt.	GG8+14														1																				
	Lt.	GG8+14	GG7+10														104								114												
	Lt.	GG7+10					1		1		1	1		1								99					1	1									
	Lt.	GG7+10	GG3+90														320								330												
	Lt.	GG3+90					1		1		1	1		1								99					1	1									
	Lt.	GG3+90	GG0+49														341								351												
	Lt.	GG0+49					1		1		1	1		1								99					1	1									
	Lt.	GG8+14	G73+10"P"														496						506														
	Lt.	G73+10"P"														1													2								
	Lt./Rt.	G73+10"P"															32			32	84								2								
	Rt.	G73+10"P"														1																				
	Rt./Lt.	G73+10"P"	G75+15														212						222														
	Lt.	G75+15					1		1		1	1		1								99					1	1									
	Lt.	G75+15	G78+44														320						339														
	Lt.	G78+44					1		1		1	1		1								99					1	1									
	Lt.	G78+44	G80+90														246						256														
	Lt.	G80+90														1													2								
	Lt.	G80+90	G81+53														10			453 / 10		30 / *116	*84				*1	*1									
	Lt.	G81+53			*1						*1	*1																				*1	*2	*1				
	Lt.	G80+90	58+25 S.R.125														72		72		164																
	Lt.	58+25 S.R.125														1													2								
	Lt.	58+253 S.R.125	58+063 S.R.125															19					29														
	Lt.	58+06 S.R.125														1											1	1									
	Lt.	58+063 S.R.125	57+27 S.R.125															79					89														
	Lt.	57+273 S.R.125		1					1		1	1		1	1							95					1	1									
	Lt.	57+273 S.R.125	56+00 S.R.125															127					137	137													
	Lt.	56+00 S.R.125														1													2	4							
	Lt.	56+00 S.R.125	54+753 S.R.125														125						135														
	Lt.	54+753 S.R.125					1		1		1	1		1								99					1	1									
	Lt.	54+753 S.R.125	G68+200"														136						146														
	Rt.	G68+20 "O"														1													2	4							
	Rt.	G68+20 "O"	G69+03"O"														83							93														
	Rt.	G69+03"O"						1		1	1		1		1							89					1	1									
	Rt./Lt.	G68+20"O"															31			32	84																
	Lt.	G68+20"O"														1													2								
	Lt.	G68+20"O"	53+47 S.R.125														34						34							4							
	Lt.	53+47 S.R.125					1		1		1	1		1								99					1	1									
	Lt.	53+47 S.R.125	52+10 S.R.125														137						147														
	Lt.	52+10 S.R.125														1													2	4							
	Lt.	52+10 S.R.125	G82+10"N"														80						170	90													
	Lt.	G82+10"N"														1										2				4							
	Lt./Rt.	G82+10"N"															52			52	248	124								4		2					
	Rt.	G82+10"N"														1																					
	Rt.	G82+10"N"	G80+57"N"														153							163														
	Rt.	G80+57"N"						1		1	1		1		1							89					1	1									
	Rt.	G82+10"N"	50+81 S.R.125														84							94														
	Lt.	50+81 S.R.125					1		1		1	1		1								99					1	1									
	Rt.	G82+10"N"	50+60 S.R.125														82						184	92													
	Lt.	50+60 S.R.125																																	1			
	Lt.	50+50 S.R.125																																		1		
	Lt./Rt.	52+10 S.R.125															69				158	316															69	
	Lt./Rt.	56+00 S.R.125																																				
	Lt./Rt.	G3+09 S.R.125														1						158															69	
	Lt.	G3+09 S.R.125														1													2								
	Lt.	G3+09 S.R.125	G3+193 S.R.125														10							20														
	Lt.	G3+193 S.R.125					1		1		1	1		1								99					1	1									
	Lt.	G3+09 S.R.125	G83+90"P"														30							40														
	Rt.	G83+90"P"														1										2												
	Lt./Rt.	G83+90"P"															32			32		84																
	Lt.	G83+90"P"														1													2								
	RT.	52+109 S.R.125	56+00 S.R.125																				400	400													
		Sub-Total Structure No. 1291			*1						*1	*1								*53			*116	*84			*1	*1				*1	*2	*1				
		Sub-Total Plan Sheet No. 529		1			12	3		16	3	13	16		1	16	14	6	4304	295	72	10	356	738	830	1550		2354	2780		6	18	18	14	30	4	2				1	1		138	

Calc. J.R. 11/10/69
Ck'd. A.B. 11/11/69

*Quantities for Structure No. 1291

LIGHTING QUANTITIES - S.R. 125 INTERCHANGE

LIGHTING QUANTITIES SUB-SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE. 275-6.68

| REFERENCE NO. | SIDE | STATION TO STATION | Light Pole Design II A 15 B 32.5 | Light Pole Design TA 12 B 30 | Light Pole Design II A 10 B 32.5 | Light Pole Design II AT 15 B 34.2 | Light Pole Design II AT 10 B 34.2 | Light Pole Foundation 24"x6' | Luminaire Type II 400 Watt | Luminaire Type III 400 Watt | Lamp 400 Watt | | Clare Shield | Ground Rod | Pull Box 18" Circular | Pull Box 24" Circular | Trench 24" Deep | Trench 4'6" Deep | Conduit 2" Type II or III Concrete Encased | Conduit 2" Type II or III | Conduit 3" Type II or III | Dist Circuit Cable No. 2 | Dist Circuit Cable No. 4 | Pole & Bracket Cable No. 10 AWG 19 Strand | | Duct Cable 600 V. 1½" Two No. 2 | Duct Cable 600 V. 1½" Two No. 4 | | Connector Kit Type I | Connector Kit Type II | Connector Kit Type III | Connector Kit Type IV | Connector Kit Type III A | Connector Kit Type III B | Connector Kit Type III C | | Structure Junction Box (24"x12"x10") | Light Pole Anchor & Bolts for Structure | Structure Ground System | F Rte. Distribution Transformer and Protective Equipment | Service Pole and Components | Marker (Cable) | Conduit 3" in Trench Type II or III Locked Over Roadway, as per Plan | | |

FED. RD. DIVISION	STATE	PROJECT	
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CLERMONT COUNTY
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LIGHTING QUANTITIES SUB-SUMMARY

REFERENCE NO.	SIDE	STATION TO STATION	Light Pole Design 11A 15B 32.5	Light Pole Design 11A 12B 30	Light Pole Design 11A 15B 32.5	Light Pole Design 11AT 15B 34.2	Light Pole Design 11A 10B 34.2	Light Pole Foundation 24"x6'	Luminaire Type II 400 Watt	Luminaire Type III 400 Watt	Lamp 400 Watt	Glare Shield	Ground Rod	Pull Box 18" Circular	Pull Box 24" Circular	Trench 24" Deep	Trench 42" Deep	Conduit 2" Type II or III	Conduit 3" Type II or III	Dist Circuit Cable No. 2	Dist Circuit Cable No. 4	Pole Bracket Cable No. 10 AWG. 19 Strand	Duct Cable 600 V. 1#2 Two No. 2	Duct Cable 600 V. 1#2 Two No. 4	Connector Kit Type I	Connector Kit Type II	Connector Kit Type III	Connector Kit Type III A	Connector Kit Type VIII B	Connector Kit Type VIII C	Structure Junction Box (24"x12"x10")	Light Pole Anchor U Bolts for Structure	Structure Ground System	EVA Distribution Transformer and Protective Equipment	Service Pole and Components	Markers (cable)	Conduit 3" RGS Type 1 Underground Pavement as per plan
			Each	Each	Each	Each	Each	Each	Each	Each	Each	Each	Each	Each	Each	Lin Ft.	Lin Ft.	Lin Ft.	Lin Ft.	Lin Ft.	Lin Ft.	Lin Ft.	Lin Ft.	Lin Ft.	Lin Ft.	Each	Each	Each	Each	Each	Each	Each	Each	Each	Each	Lump	Each	Each
	Rt.	56+00 S.R.125 56+43 S.R.125															43							53												
	Rt.	56+43 S.R.125												1													1	1								
	Rt.	56+43 S.R.125 57+33 S.R.125															80							90												
	Rt.	57+33 S.R.125	1					1		1	1	1	1									95					1	1								
	Rt.	57+33 S.R.125 60+37 S.R.125														183	121							314												
	Rt.	60+37 S.R.125				1		1		1	1		1									99					1	1								
	Rt.	60+37 S.R.125 694+95 S.R.125														148								158												
	Lt.	694+95 "S"												1															2							
	Lt.	694+95 "S" 694+24 "S"														71								81												
	Lt.	694+24 "S"					1	1	1		1		1									89					1	1								
	Lt. Rt.	694+95 "S"														32			32		84															
	Rt.	694+95 "S"												1												2										
	Rt.	694+95 "S" 61+83 S.R.125														38								48												
	Rt.	61+83 S.R.125				1		1		1	1		1									99					1	1								
	Rt.	61+83 S.R.125 63+09 S.R.125														126								136												
	Rt.	63+09 S.R.125												1															2							
	Rt.	63+09 S.R.125 681+15 "R"														135								145												
	Rt.	681+15 "R"												1												2										
	Rt Lt	681+15 "P"														40			40		100															
	Lt.	681+15 "R"												1															2							
	Lt.	681+15 "P" 64+88 S.R.125														132								142												
	Rt.	64+88 S.R.126				1		1		1	1		1									99					1	1								
	Lt.	681+15 "P" 682+45 "R"														130								140												
	Lt.	682+45 "R"			1			1	1		1		1									85					1	1								
		Sub-Total This Sht.	1		1	3	1		6	2	4	6		1	6	6	1	1035	244			72		184	566		1307		4	7	7	6							
		Sub-Total Sht. No. 532	3		1	9	1		14	2	12	14			14	12	1	3323	332		78	266		446	1350		1260 4323		14	16	16	4	2	4					2	
		Total Plan Sht. No. 530	4		2	12	2		20	4	16	20		1	20	18	1	4358	1576		78	338		630	1916		1260 5630		18	23	23	10	2	4					2	
Total Structure No. 1342 Lt & Rt. Plan Sht. No. 530										1	1								125				370					1	1					1	2	1			
Total Structure No. 1291 Rt. Plan Sht. No. 530			1																50				110	84				1	1					1	2	1			

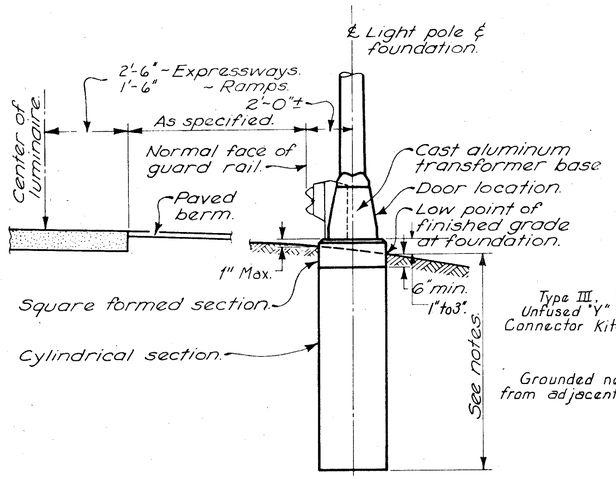
Calc. J.R. 11/12/69
Ckd. A.B. 11/19/69

LIGHTING QUANTITIES-S.R.125 INTERCHANGE

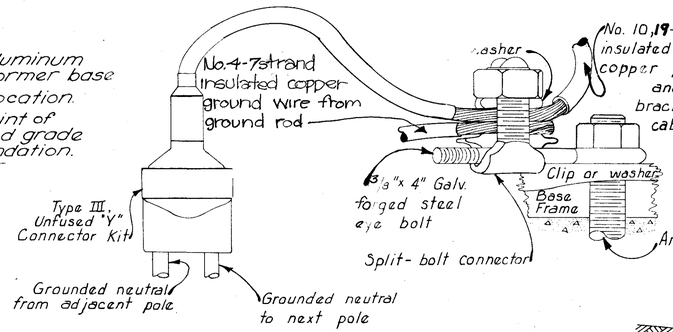
FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

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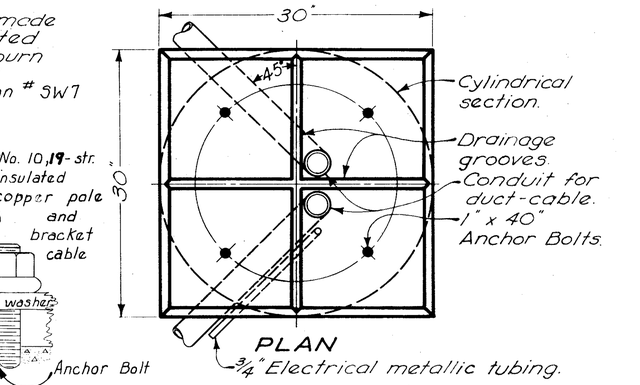
CLERMONT COUNTY
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NOTE: Split-bolt Connector shall be made of tin plated copper alloy with tin plated spacer. Acceptable models are: Blackburn #10HPS, Burndy #KSU-25, Line Material #DK-5B-10, Kearney #118109-02, Penn Union # SW1 or an approved equal.

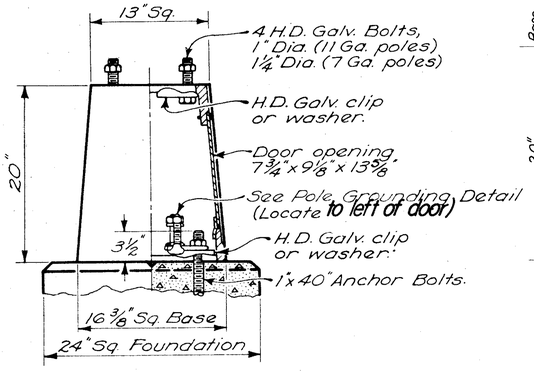


POLE GROUNDING DETAIL
(2-Wire Grounded Neutral System Only)

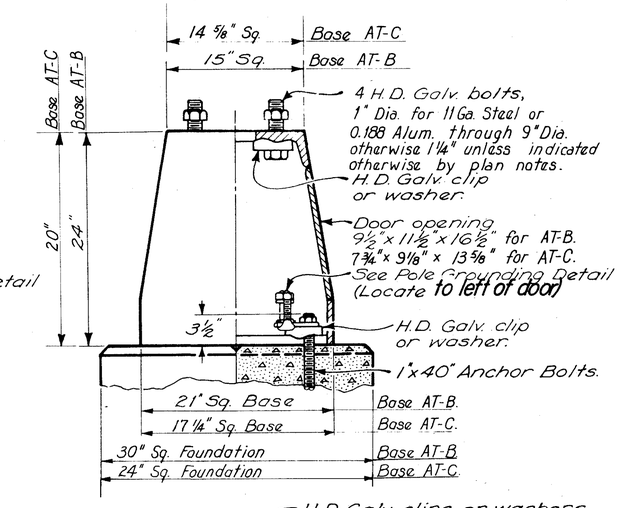


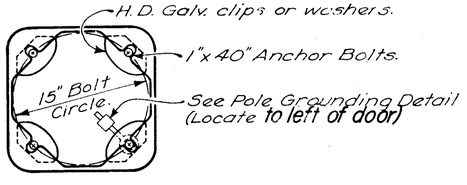
PLAN

LOCATION OF POLE WITH OR WITHOUT ALUMINUM TRANSFORMER BASES
(Supersedes "Location of Light Pole Foundation" shown on Standard Drawing HL-1).



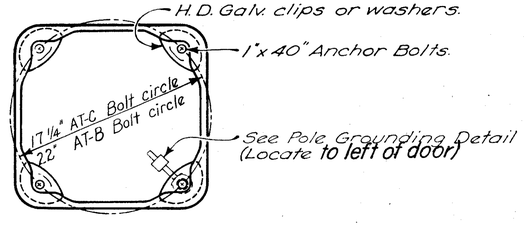
ELEVATION





BASE FRAME

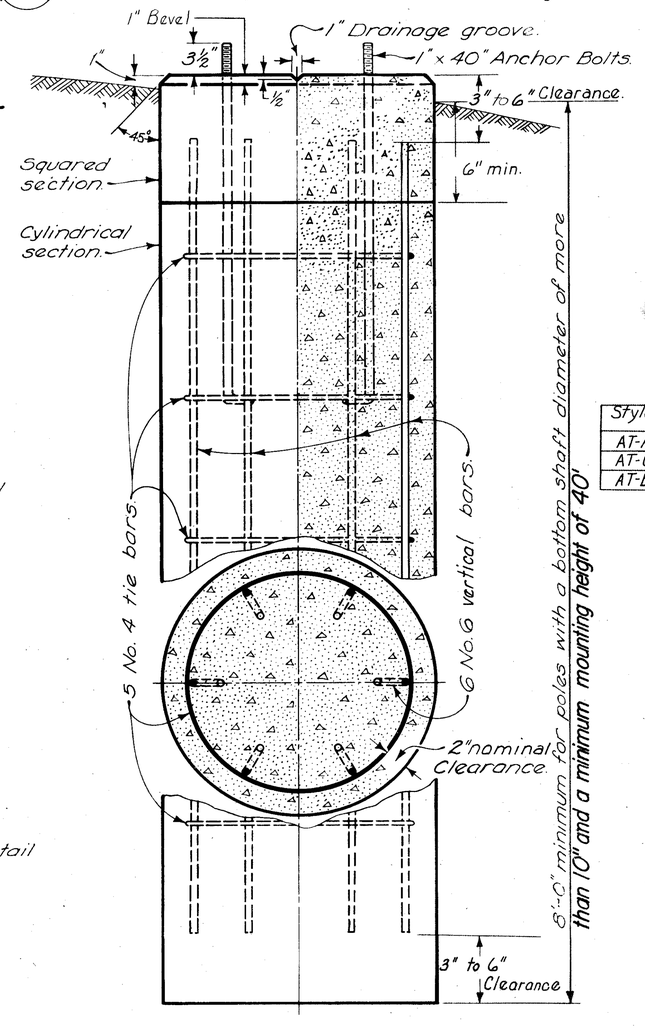
BASE AT-A



BASE FRAME

BASES AT-B AND AT-C

CAST ALUMINUM TRANSFORMER BASES



ELEVATION

30" FOUNDATION

NOTES

FOUNDATION: Foundations for light poles shall be poured-in-place concrete (vibrated and spaded 511.09). Each foundation must meet minimum depths as specified, but additional depth may be required by the Engineer because of existing soil conditions. The 30" foundation (detailed hereon) shall be used for light poles having a bottom shaft diameter of more than 10" through 12". The 24" foundation (detailed on Standard Drawing HL-1) shall be used for all light poles having a bottom shaft diameter of 6.0" through 10". See HL-1 for Foundation depth. Rotate reinforcing bars to clear conduit.

Drainage grooves on foundation top, as detailed hereon, shall be required on all foundations even though they do not appear on Standard Drawing HL-1.

ALUMINUM TRANSFORMER BASES: All bases shall be cast from ASTM B-26 or B-108 Alloy 5G 70A-T6.

Base AT-A shall be used with anchor base poles of 6" through 9.2" dia. inclusive, thru 34'-6" Mtg. Hgt. Base AT-B shall be used for anchor base poles above 10" through 12" diameter. Base AT-C shall be used for anchor base poles with bottom diameter 9" through 10".*

The transformer bases shall be capable of resisting the following moments in foot pounds with load applied at a distance of 20' feet above the top of the base without collapsing or rupturing.

Style	Bolt Circle	Base Height	Moment-Foot Pounds	Arm Length
AT-A	15"	20"	37,000	15' Max.
AT-C	17¼"	20"	56,000	10' to 25'
AT-B	22"	24"	52,000	10' to 25'

Both the bottom of the cast steel pole base and the top of the aluminum transformer base shall be coated or painted with a heavy film of zinc rich paint (Federal Specification TT-P-641-Type II) to reduce galvanic action between the two dissimilar metals.

PAYMENT: 30" Light Pole Foundations shall be paid for at the unit price bid per each foundation.

Aluminum base complete with hardware, eye bolt and connector, zinc rich paint, and installation shall be included with ground-mounted poles for payment.

* AT-C Base can be used with 8" or 8½" dia. base poles, if desired, in order to reduce maintenance items.

Revised: 7-23-69
Revised: 1-1-69
Revised: 1-24-69
Revised: 5-16-68
Issued: 11-6-67
Revised 11-10-69

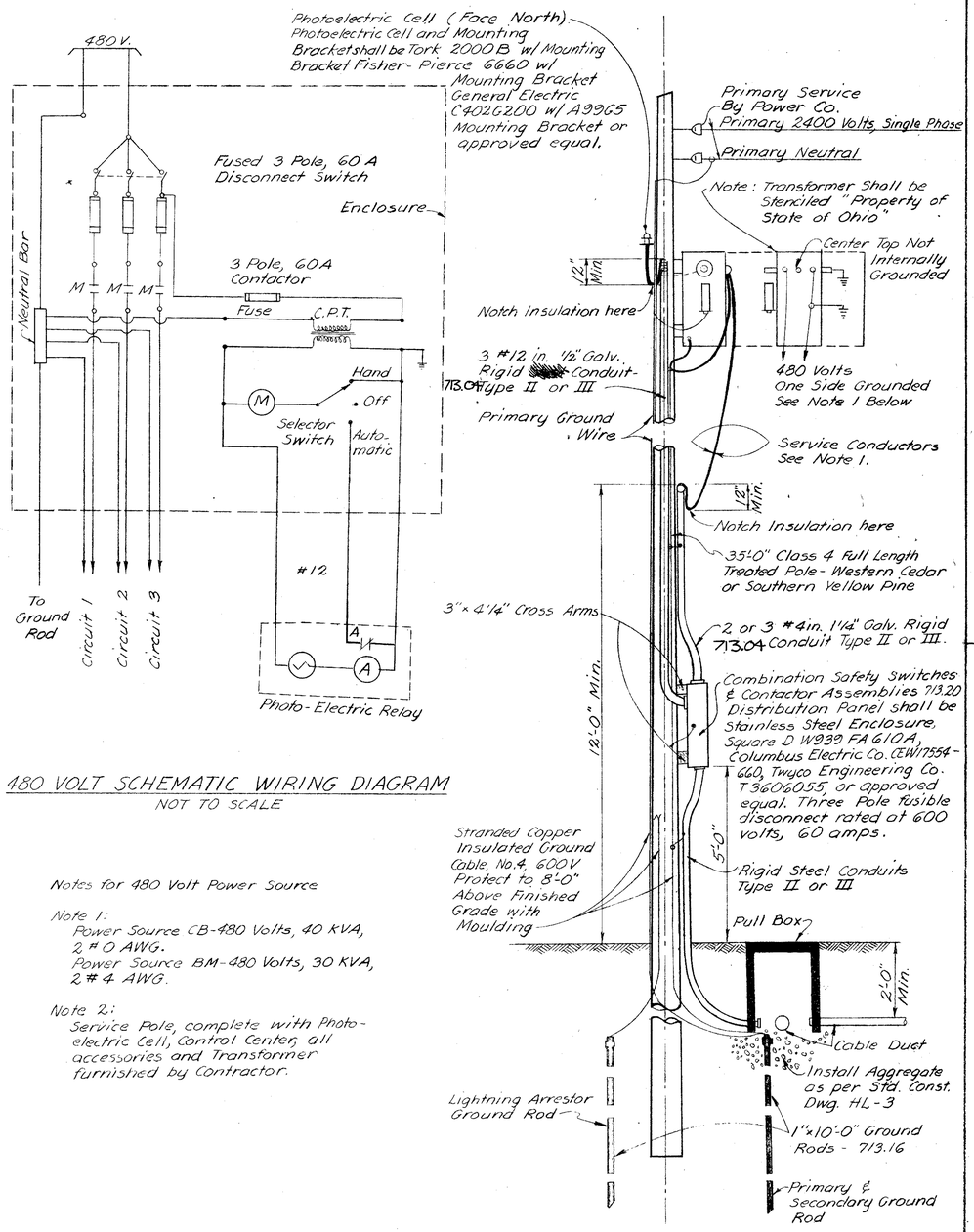
Design Services Sketch No. RL-SK-186

ALUMINUM TRANSFORMER BASE DETAILS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE. 275-6.68



480 VOLT SCHEMATIC WIRING DIAGRAM

NOT TO SCALE

Notes for 480 Volt Power Source

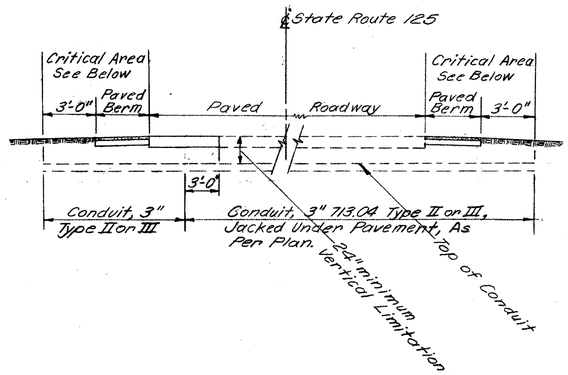
Note 1:
Power Source CB-480 Volts, 40 KVA, 2 # 0 AWG.
Power Source BM-480 Volts, 30 KVA, 2 # 4 AWG.

Note 2:
Service Pole, complete with Photo-electric Cell, Control Center, all accessories and Transformer furnished by Contractor.

SERVICE POLE DETAIL (480 VOLTS)

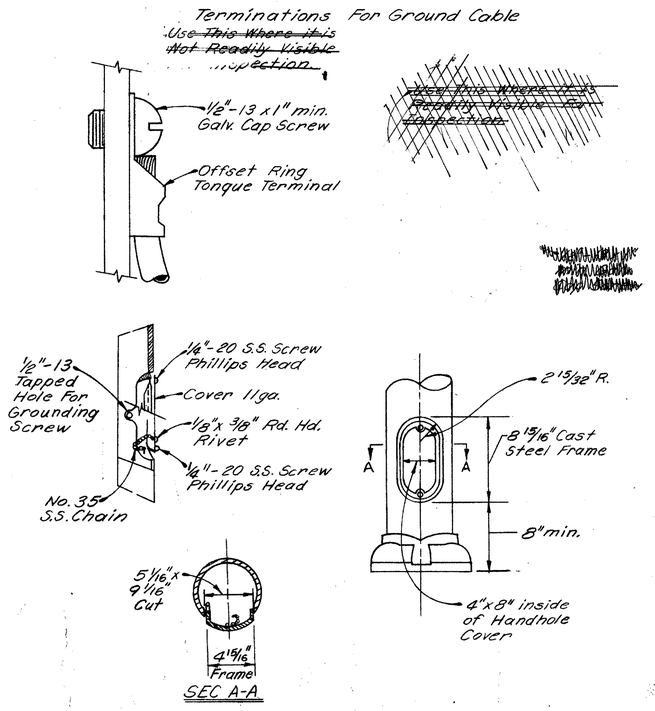
NOT TO SCALE

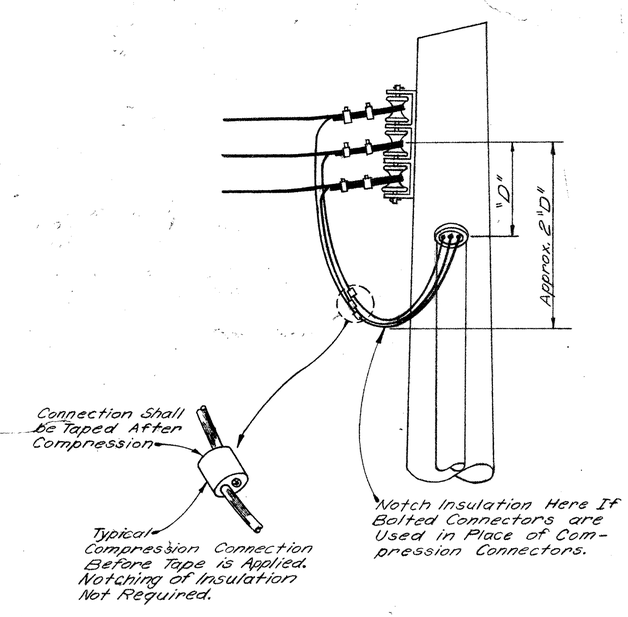
(Refer to Sections 625.18 and 713.19)



Access (push) Pits or Trenches For Setting Up Drilling or Jacking Equipment Shall be Located Outside Horizontal Limitation. Conduit, Drills, Jacks Etc., Shall be Kept Below Vertical Limitation.

CRITICAL AREA: When Undermining in This Location Provide Steel Surface Plates, Corrugated Pipe Sleeves, Shoring or Other Approved Means To Prevent Cave-In.





MISCELLANEOUS LIGHTING DETAILS

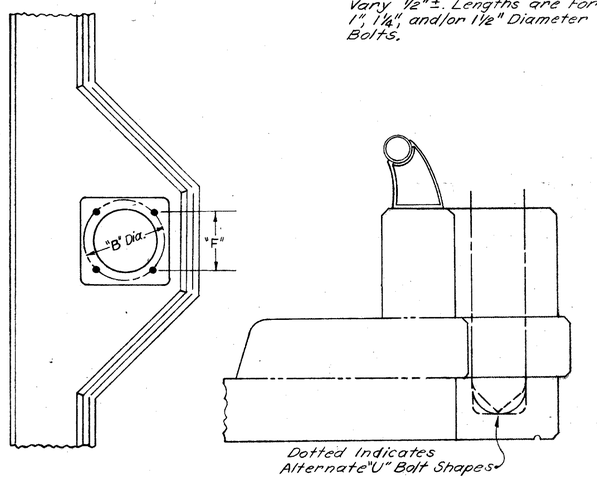
MECHANICAL PROPERTIES FOR LIGHT POLES

REFERENCE LETTER	POLE DESIGN NUMBER	SHAFT SIZE	TAPER INCHES/FT.	FOUNDATION ANCHOR BOLTS GAUGE	FOUNDATION ANCHOR BOLTS SIZE	FOUNDATION ANCHOR BOLTS DIA. BOLT CIRCLE	FOUNDATION ANCHOR BOLTS PROJ. ABOVE FOUNDATION	ARM LENGTH	NOMINAL MTG. HEIGHT	ELASTIC DEFL. RATE IN. PER 100 LB.	AT 2/3 OF YIELD STRESS LOAD 18" DOWN FROM TOP	AT 2/3 OF YIELD STRESS TOTAL DEFL. INCHES	AT 2/3 OF YIELD STRESS PERM. SET INCHES	AT YIELD STRESS LOAD 18" DOWN FROM TOP	AT YIELD STRESS TOTAL DEFL. INCHES	AT YIELD STRESS PERM. SET INCHES	TRANSFORMER BASE STYLE
A	11A15B32.5	9.0"x4.87" x29'-6"	.14	11	1"x40"	12.5"	3"	15'	32'-6"	2.16	659	14.73	.50	989	24.00	2.64	—
B	7A12B30	8.0"x4.22" x27'-0"	.14	7	1¼"x76½"	11.0'	2⅝"	12'	30'-0"	1.68	845	14.02	.50	1267	22.80	2.53	—
C	11A10B32.5	8.0"x3.87" x29'-6"	.14	11	1"x40"	11.0"	2⅝"	10'	32'-6"	3.32	517	17.66	.50	776	28.84	3.08	—
D	11AT15B34.2	9.0"x4.87" x29'-6"	.14	11	1"x40"	15.0"	3"	15'	34.2'	2.16	659	14.73	.50	989	24.00	2.64	AT-A
E	11AT10B34.2	8.0"x3.87" x29'-6"	.14	11	1"x40"	15.0"	2⅝"	10'	34.2'	3.32	517	17.66	.50	776	28.84	3.08	AT-A
F	11T15BB34.2	9.0"x4.87" x29'-6"	.14	11	1"x40"	17.25"	3¼"	15'	34.2'	2.16	659	14.73	.50	989	24.00	2.64	T

ANCHOR BOLT DIMENSIONS

Pole Size	"B" Bolt Circle	"F"	"U" Bolt Length	PROJ'N
8"	11"	7¾"	76½"	2⅝"

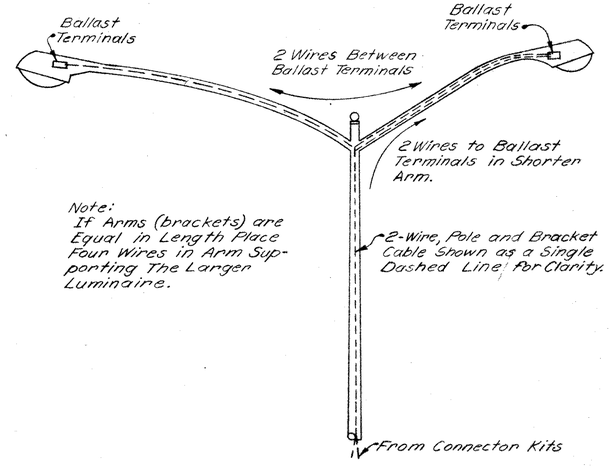
Tabulated "U" Bolt Lengths are Developed Lengths and May Vary ½" ±. Lengths are For 1", 1¼", and/or 1½" Diameter Bolts.



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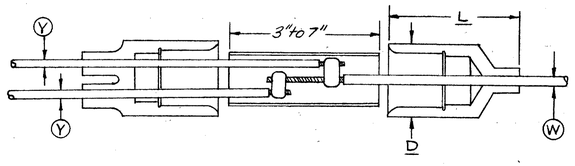


Note:
If Arms (brackets) are Equal in Length Place Four Wires in Arm Supporting The Longer Luminaire.

VII A Connector Kit = In-Line Cable Connection With Both End Housings Same as Shown on Right Side Below.

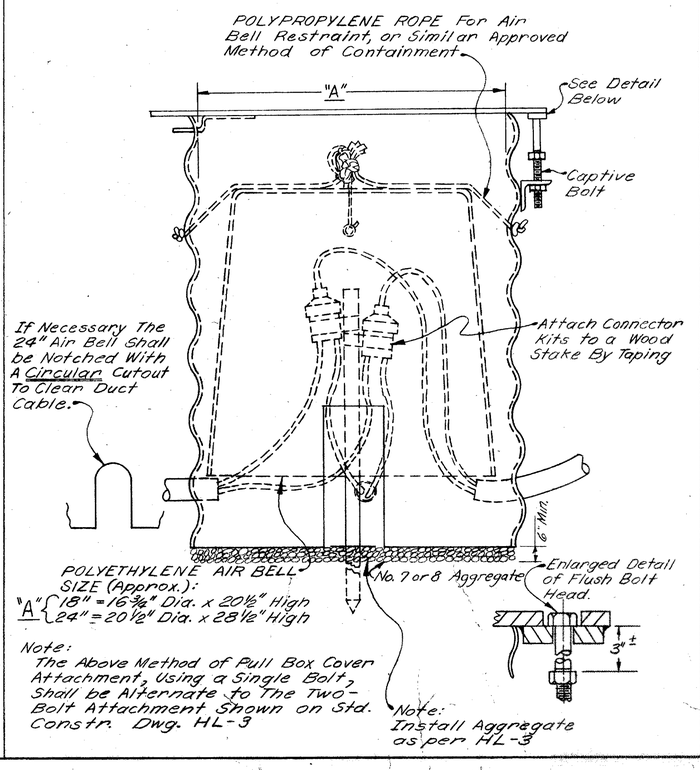
VII B Connector Kit = Y-Type Cable Connection Same as Shown Below.

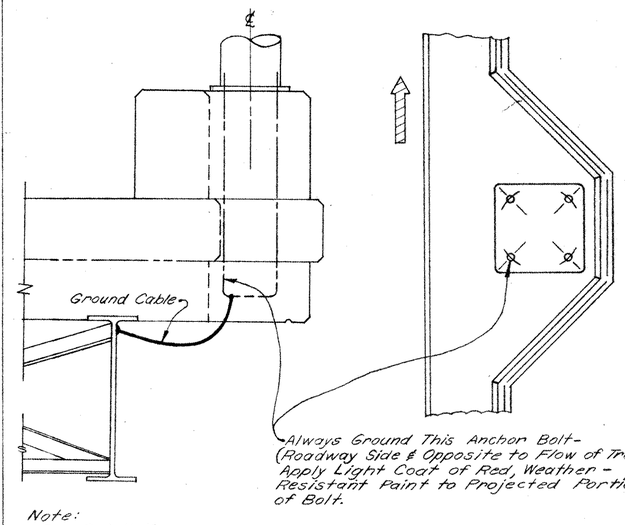
VII C Connector Kit = 4-Way Cable Connection With Both End Housings Same as Shown on Left Side Below.



D	L	Cable Diameter Min.	Cable Diameter Max.	Symbol For (Y)	Symbol For (W)	AWG 600V. Cable Per 713.02
1 29/32"	4 1/16"	.320"	.430"	D	D	No. 6 & No. 4
1 29/32"	4 1/16"	.420"	.585"	E	E	No 2 & No 3/0
1 29/32"	4 1/16"	.575"	.785"	F	F	No. 3/0 - 250 MCM
1 29/32"	4 1/16"	.775"	.985"	N.A.	G	300 MCM - 400 MCM
1 29/32"	4 3/16"	.975"	1.185"	N.A.	H	500 MCM
1 29/32"	4 5/16"	1.175"	1.385"	N.A.	J	600 MCM - 750 MCM

N.A. = Not Available
(Y) Note: Both Wires With Symbol (Y) Must be of Equal Size For a Given Connection.





Note:
See Detail Above For Anchor Bolt Dimensions.

MISCELLANEOUS LIGHTING DETAILS

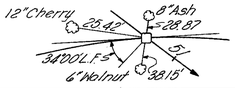
MICROFILMED
MAR 27 1985

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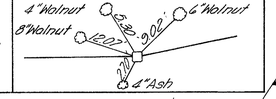
CLERMONT COUNTY
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REFERENCE STA. 50+00.00

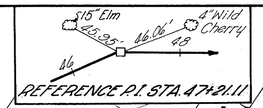


B.M.: Spike in Power Pole
200'± Lt. of Sta. 474+00
West Side of Borgs
Salt Run Road El. 821.82

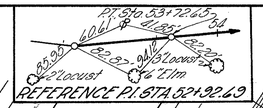
REFERENCE P.I. STA. 473+51.04

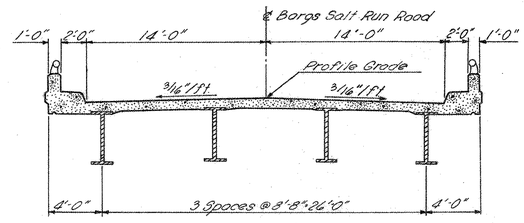


REFERENCE P.I. STA. 471+91.11

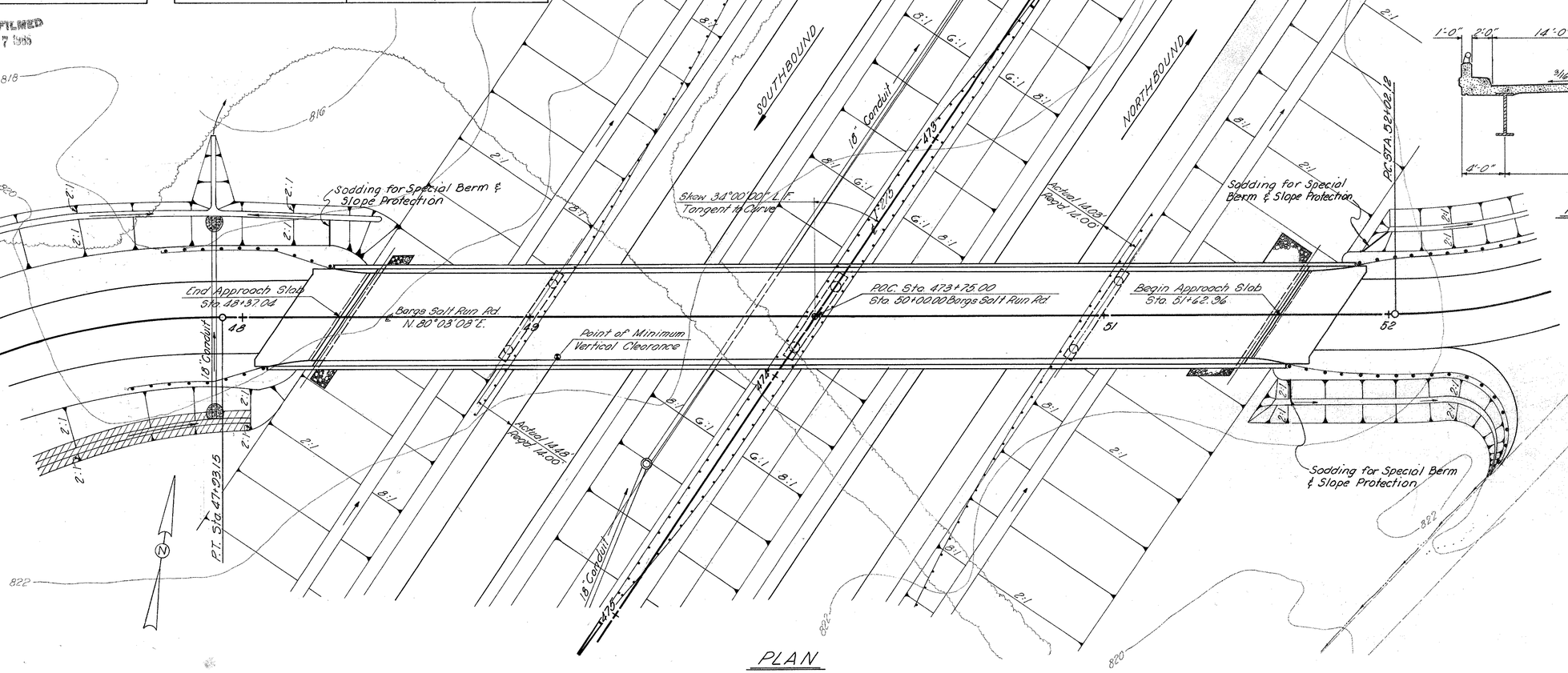


REFERENCE P.I. STA. 521+92.69

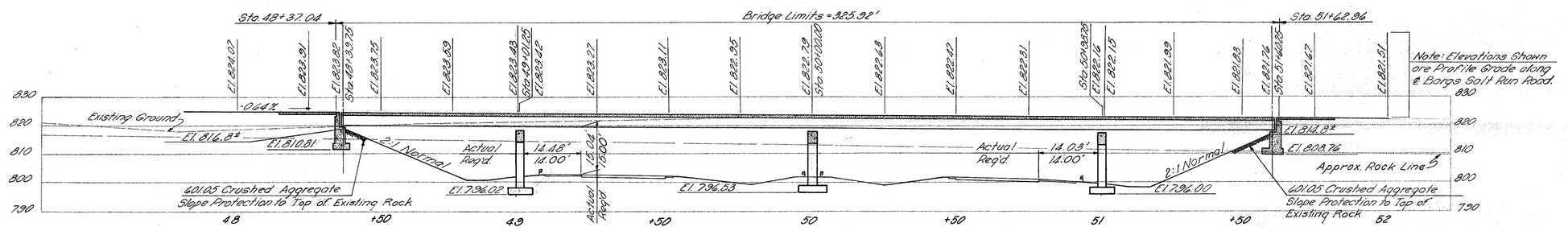




PROPOSED STRUCTURE



PLAN



SECTION ALONG CENTERLINE

MAINLINE TRAFFIC 1987
NB = 19,960
SB = 19,960
TOTAL = 39,920 ADT.
BARGS SALT RUN TRAFFIC 1987
460 ADT.

I-275 CURVE DATA
P.I. = 473+51.04
Dc = 0°45'00" Lt.
Δ = 17°26'30"
R. = 7633.44'
Lc = 2325.56'
T. = 1171.84'
E. = 89.35'
P.C. = 461+79.20
P.T. = 485+04.76
S.E. = 0.032 ft

PROPOSED STRUCTURE

TYPE: Continuous Welded Plate Girder with Reinforced Concrete Deck and Substructure.
SPAN: 61'-6", 98'-9", 98'-9", 61'-6"
ROADWAY: 28'-0" F.F. of 2'-0" Safety Curb.
LOAD FREQUENCY: C.F. 130(57)
SKEW: 34°00'00" Left Forward
WEARING SURFACE: 1" Monolithic Conc.
APPROACH SLABS: AS-1-GT(20' Long)
ALIGNMENT: Tangent
SAFETY CURBS: 2'-0" Each Side

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SITE PLAN

BRIDGE NO. CLE-275-0896
I-275 UNDER TOWNSHIP ROAD T-211
(BARGS SALT RUN RD.)
CLERMONT CO. I-275
STA. 48+37.04 to STA. 51+62.96

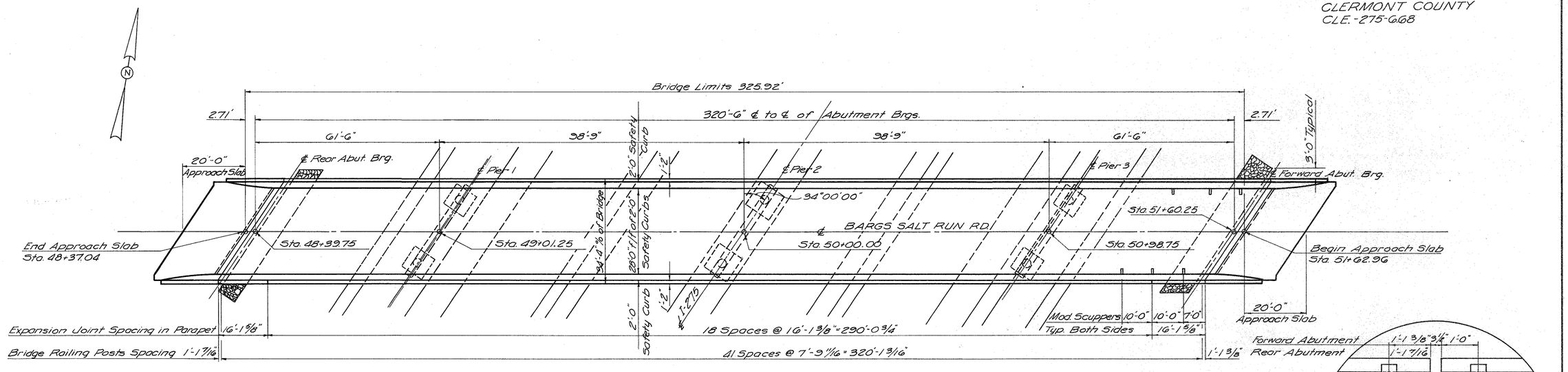
PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
Aerial	E.G.H.	R.K.	E.G.H.	R.K.	R.K. 10-69

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CLERMONT COUNTY
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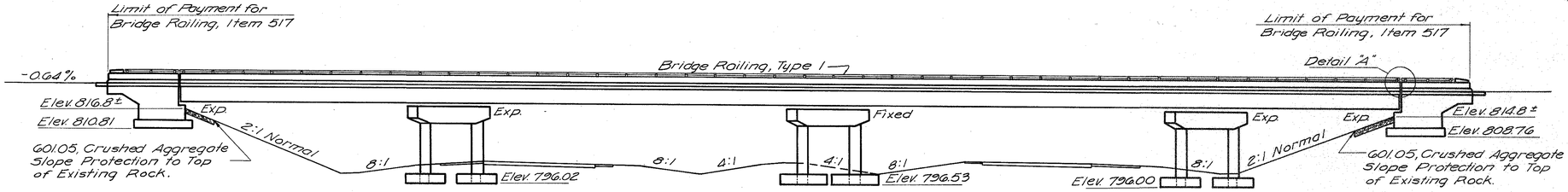


GENERAL PLAN

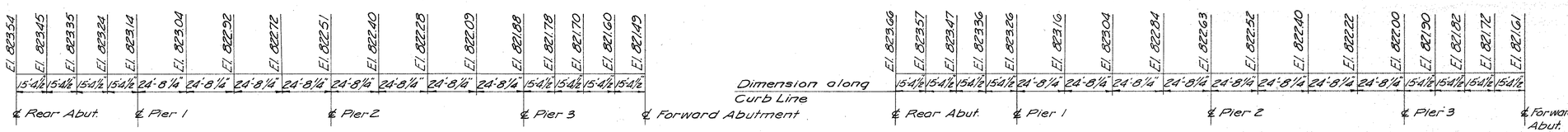
Note: See Standard Drawing BR-1-65 for Handrail and Parapet Expansion Joint Details.

Note: See Superstructure Detail Sheet for Modified Scupper Details.

DETAIL "A"



ELEVATION



LEFT CURB

Dimension along Curb Line

RIGHT CURB

Note: Elevations shown are Elevations at Face of Curb prior to Dead Load Deflection caused by the Weight of the Concrete Deck.

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CINCINNATI, OHIO 45206

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GENERAL PLAN & ELEVATION

BRIDGE NO. CLE.-275-0896
I-275 UNDER TOWNSHIP ROAD T-211
(BARGS SALT RUN RD.)
CLERMONT CO. I-275
STA. 48+37.04 to STA. 51+62.96

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
R.K.	W.P./J.F.	S.M.	J.F.	R.K. 10-69	

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	CLE-275-0896 SUPER STRUCT	REAR ABUT.	FORW'D ABUT	PIER 1	PIER 2	PIER 3	GEN'L
503	165	Cu. Yds.	Unclassified Excavation		58	107				
503	167	Cu. Yds.	Rock Excavation		51	27	33	37	19	
509	130,865	Lbs.	Reinforcing Steel	90,525	5,244	5,244	9,548	10,953	9,351	
511	342	Cu. Yds.	Class "C" Concrete Superstructure	342						
511	73	Cu. Yds.	Class "C" Concrete Pier Above Footing				25	24	24	
511	120	Cu. Yds.	Class "C" Concrete Abutments above Footing		60	60				
511	95	Cu. Yds.	Class "C" Concrete Footing		26	26	13	17	13	
513	270,097	Lbs.	Structural Steel	270,097						
514	270,097	Lbs.	Field Painting of Structural Steel	270,097						
517	719.33	Lin.Ft.	Bridge Railing Type 1.	644.67	37.33	37.33				
518	44	cu.Yds.	Porous Backfill		22	22				
518	6	Each	Modified Scuppers Including Supports.	6						
518	66	Lin.Ft.	6" Perforated Helical C.M.P. 707.01 including specials		33	33				
518	56	Lin.Ft.	6" Non-Perforated Helical C.M.P. 707.01		28	28				
601	57	Sq. Yds.	Crushed Aggregate Slope Protection		22	35				
808	342	Units	Water Reducing Set Retarding Admixtures for Concrete	342						

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CLERMONT COUNTY
CLE. 275.-668

GENERAL NOTES

REFERENCE: Shall be made to Standard Drawings SD-1-65, Sheets 1 and 2, dated November 8, 1965, BR-1-65, Sheet 1, revised November 24, 1965, RB-1-55 revised February 2, 1959, and to the Supplemental Specifications 808 dated January 1, 1969, 811 dated January 1, 1969, 836 dated June 17, 1969.

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specification for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-1957 together with revisions thereof.

DESIGN DATA:

Design Loading	CF 130 (57)
Concrete Class C	Basic Unit Stress 1,333 psi (superstructure)
Concrete Class C	Basic Unit Stress 1,133 psi (substructure)
Structural Steel	ASTM A36 - Basic Unit stress 20,000 psi
Reinforcing Steel	ASTM A615, A616 or A617 Deformed Intermediate or Hard Grade. Basic Unit stress 20,000 psi. Spiral reinforcement shall be plain bars ASTM A306 or A499.

MACHINE FINISH: The concrete bridge deck shall be finished by use of a finishing machine.

FOOTINGS: Shall extend a minimum of 3' into undisturbed rock or to the elevation shown, whichever is lower.

FOUNDATION BEARING PRESSURE: Abutment and pier footings are designed for a maximum bearing pressure of 5 tons per sq. ft.

WELDING: Welds on non-stress carrying members are shown thus:



ERECTION PROCEDURE: The Contractor shall submit to the Director, for approval, three (3) prints showing the Proposed Erection Procedure for the Plate Girders.

STAINLESS STEEL FASTENERS shall be properly passivated to remove surface impurities and shall be furnished with a lustrous finish.

SCUPPERS, including support angles, shall be galvanized in accordance with 711.02.

END DAM PAINTING: Portions of end dams which will be in contact with steel or with concrete shall not be painted. All other portions shall be cleaned and painted in accordance with 514.

JOINT SEALER: Item 828 joint sealer including bond breaker, shown in Sec. A-A of Std. Drwg. SD-1-65, sheet No. 1, shall be omitted.

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CINCINNATI, OHIO 45206

ESTIMATED QUANTITIES
BRIDGE NO. CLE.-275-0896
I-275 UNDER TOWNSHIP ROAD T-211
(BARGS SALT RUN RD.)
CLERMONT CO. I-275
STA. 48+37.04 to STA. 51+62.96

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
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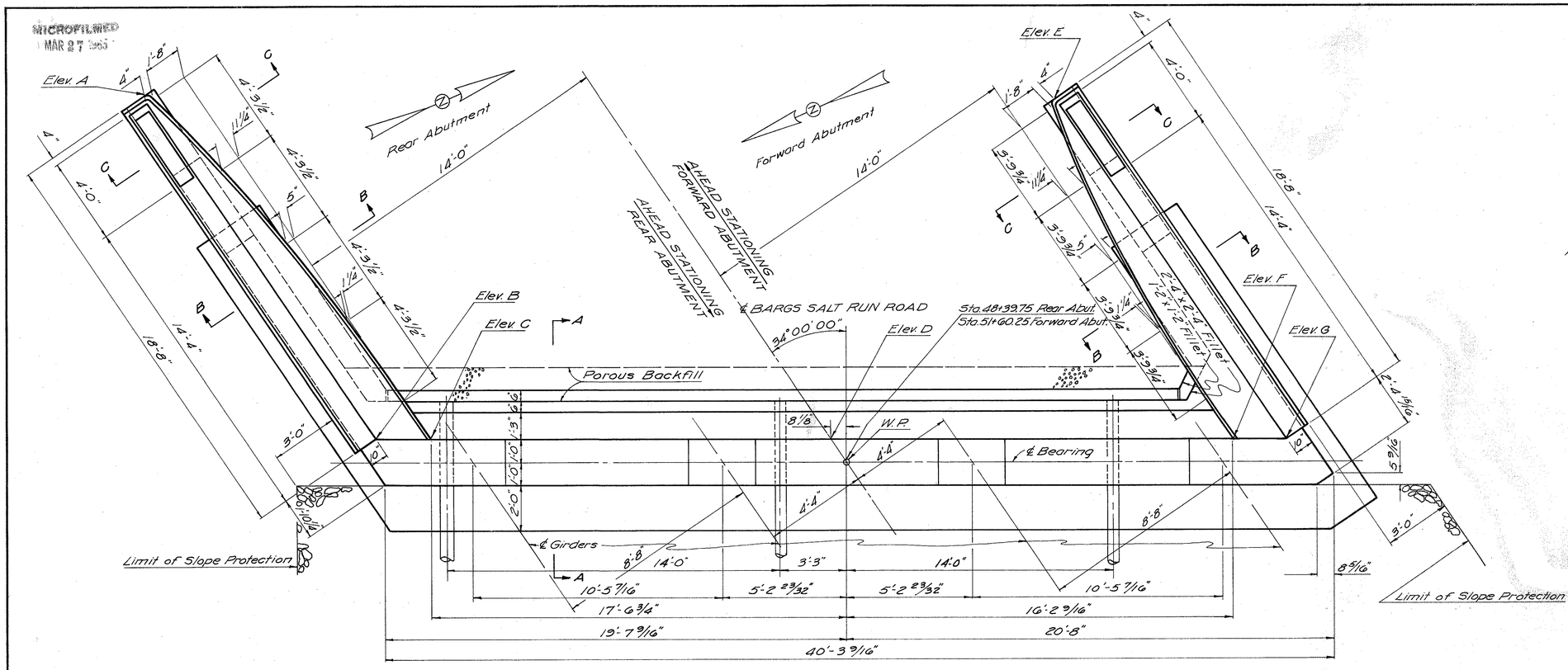
MICROFILMED
MAR 27 1969

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
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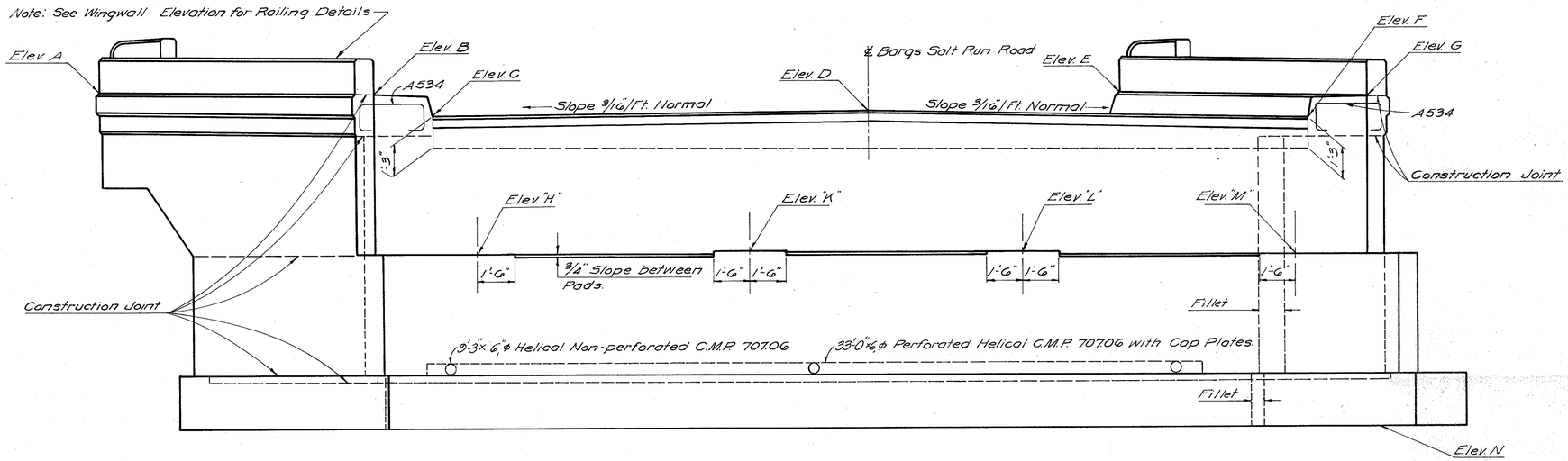
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CLERMONT COUNTY
CLE.-275-G.68

Note: For Sections A-A, B-B, and C-C, see Sheet 5 | 9



PLAN REAR AND FORWARD ABUTMENTS



ELEVATION REAR AND FORWARD ABUTMENTS

Abutment	Elev. A	Elev. B	Elev. C	Elev. D	Elev. E	Elev. F	Elev. G	Elev. H	Elev. K	Elev. L	Elev. M	Elev. N
Rear	824.65	824.53	823.65	823.82	824.51	823.53	824.40	817.92	818.02	817.98	817.81	810.81
Forward	822.21	822.34	821.46	821.76	822.35	821.58	822.47	815.76	815.93	815.97	815.87	808.76

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CINCINNATI, OHIO 45206

ABUTMENT DETAILS

BRIDGE NO. CLE.-275-0896
I-275 UNDER TOWNSHIP ROAD T-211
(BARGS SALT RUN RD.)
CLERMONT CO. I-275
STA. 48+37.04 to STA. 51+62.96

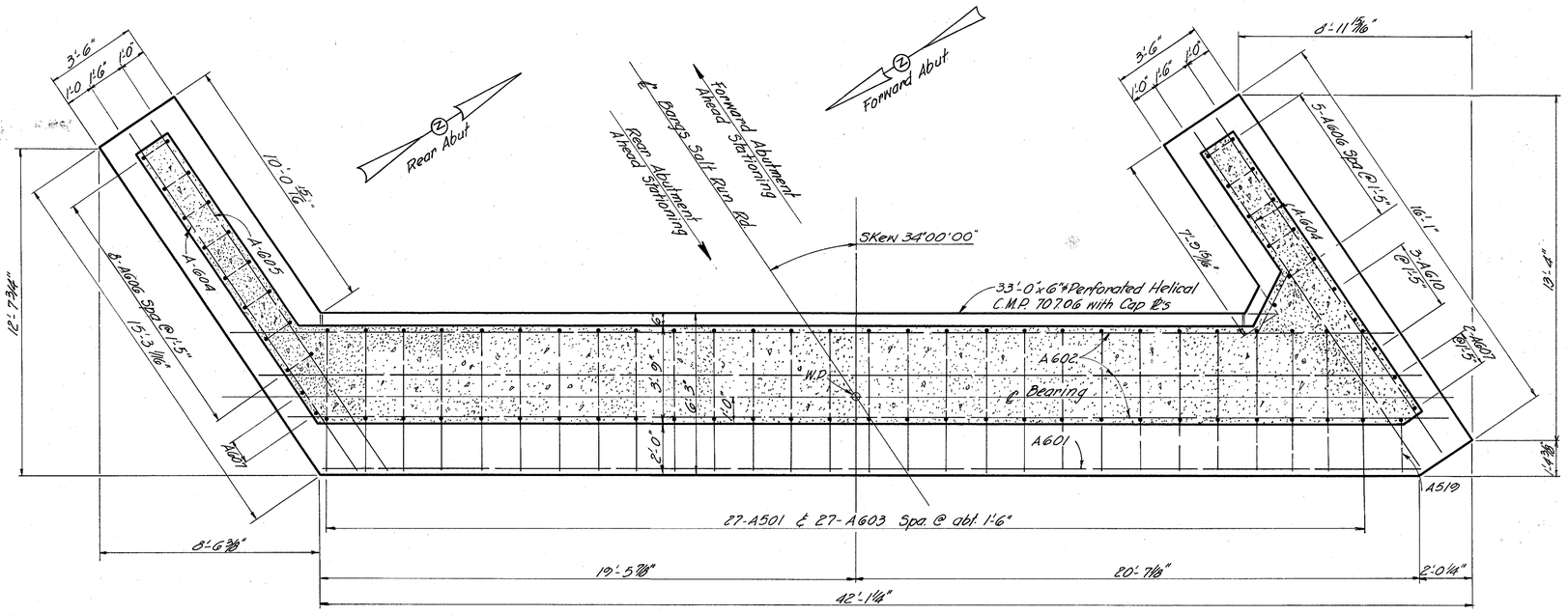
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
R.K.	A.C.	S.M.	J.S.F.	R.K. 10-69	

MICROFILMED
MAR 27 1969

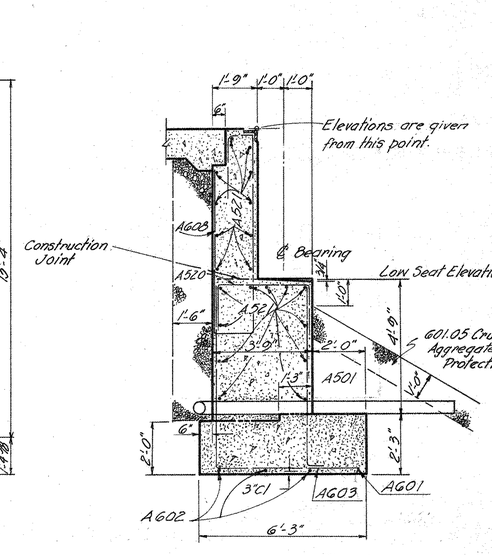
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

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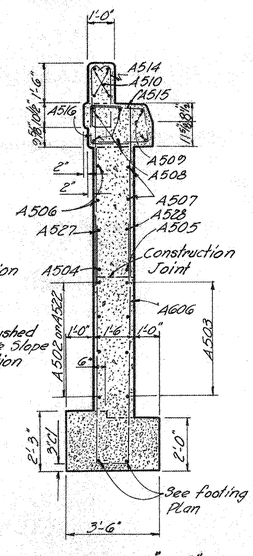
CLERMONT COUNTY
CLE-275-6.68



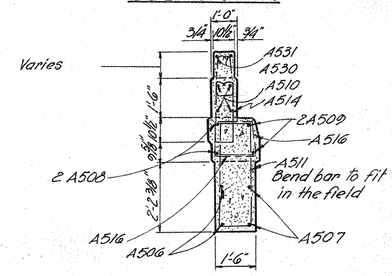
FOOTING PLAN OF ABUTMENTS



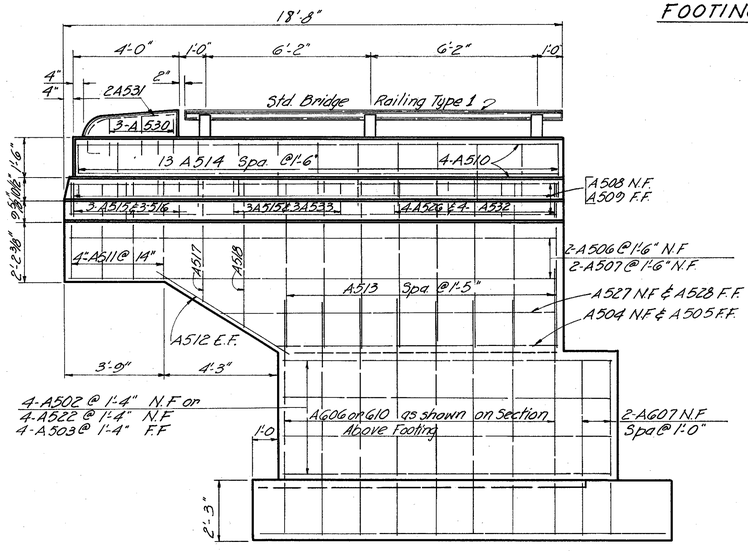
SECTION "A-A"



SECTION "B-B"

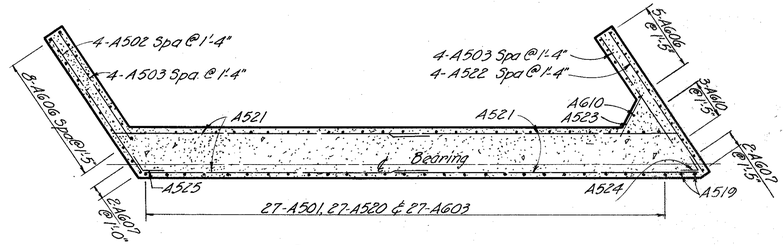


SECTION "C-C"

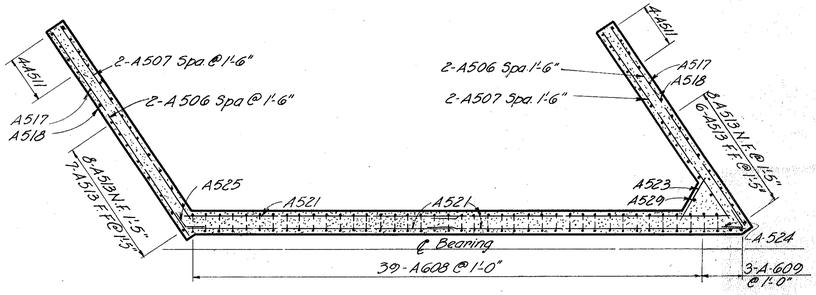


WINGWALL ELEVATION

NOTE: A523, A524 & A525 bars are to be spaced with A521 bars.



SECTION ABOVE FOOTING



SECTION ABOVE BRIDGE SEAT

NOTE:
E.F. = Each Face
N.F. = Near Face
F.F. = Far Face

HARRY BALKE ENGINEERS 5/9
990 NASSAU STREET
CINCINNATI, OHIO 45206

ABUTMENT DETAILS

BRIDGE NO. CLE.-275-0896
I-275 UNDER TOWNSHIP ROAD T-211
(BARGS SALT RUN RD.)
CLERMONT CO. I-275
STA. 48+37.04 to STA. 51+62.96

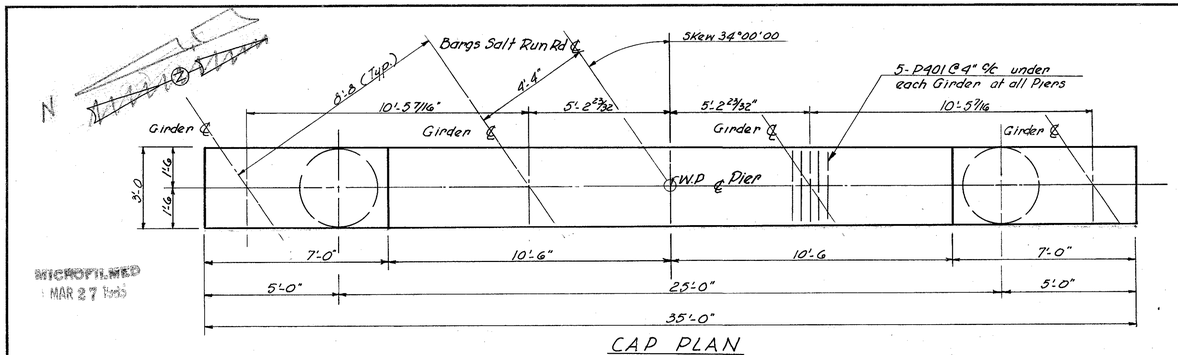
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R.K.	M.K.	A6.	J.S.F.	R.K. 10-69	

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

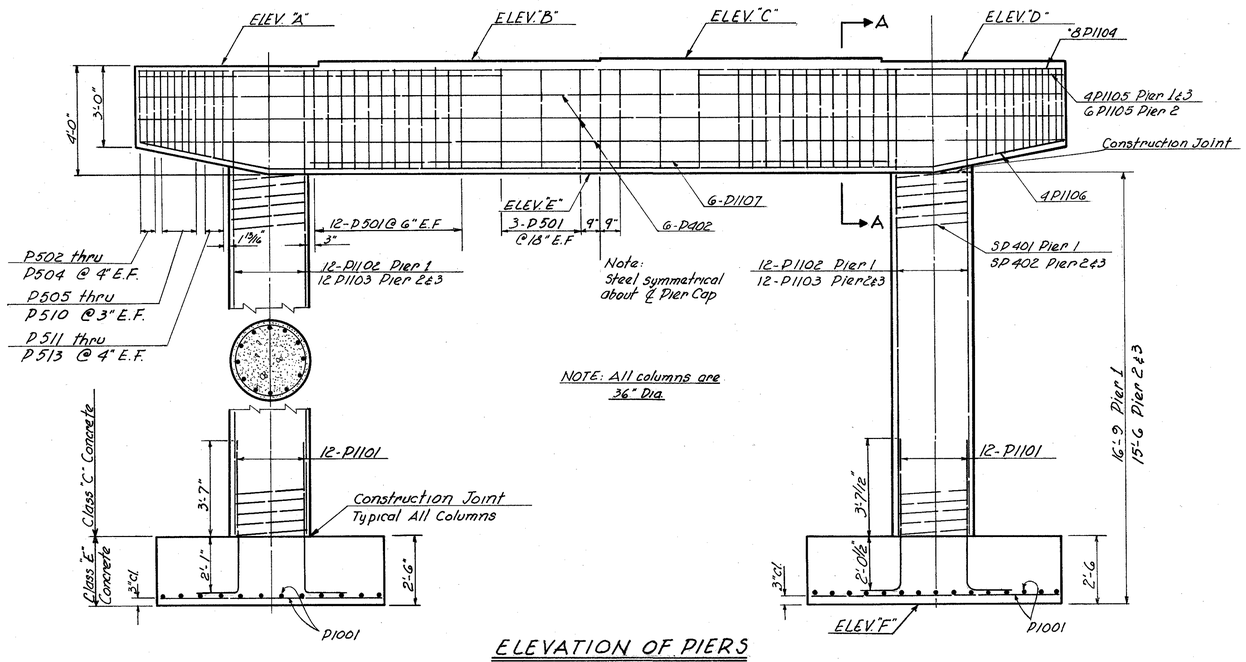
559
638

CLERMONT COUNTY
CLE 275-6.68

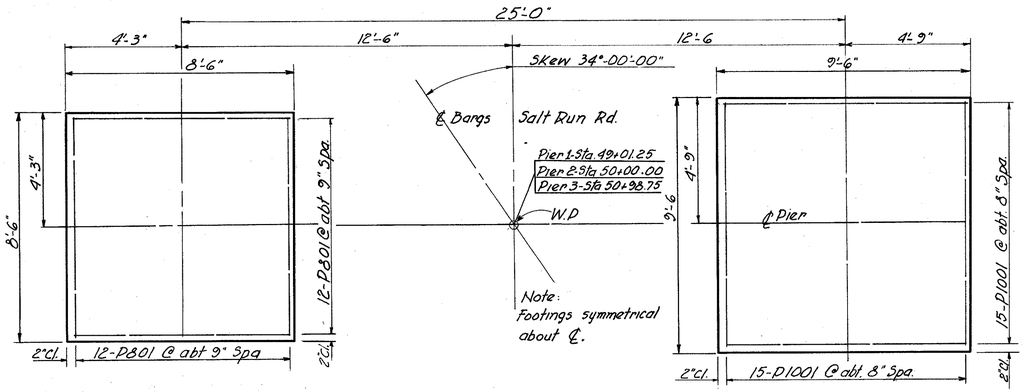
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MAR 27 1969



CAP PLAN

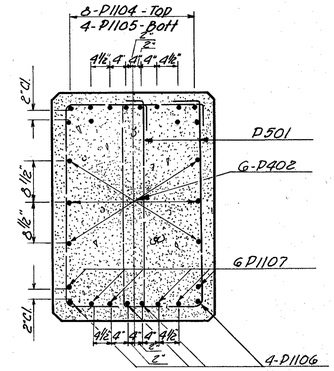


ELEVATION OF PIERS

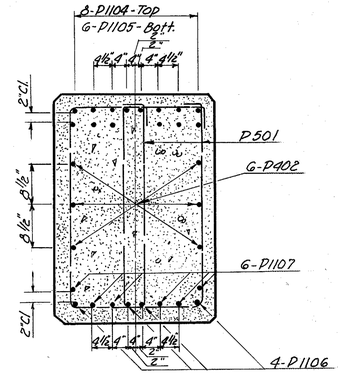


FOOTING PLAN PIER 1 & 3

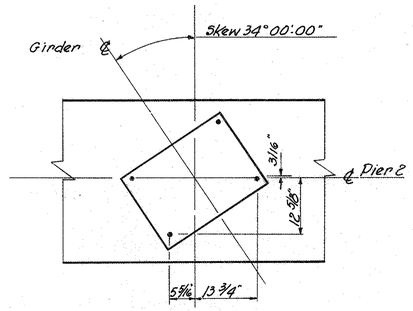
FOOTING PLAN PIER 2



SECTION A-A PIER 1 & 3



SECTION A-A PIER 2



B-275 PIER 2 ONLY

ANCHOR ROD LOCATION

NOTE: Special care shall be taken in placing reinforcing in the vicinity of the bridge seat so as to avoid interference with the drilling of the anchor rod holes at Pier 2.

	ELEV. "A"	ELEV. "B"	ELEV. "C"	ELEV. "D"	ELEV. "E"	ELEV. "F"
PIER 1	816.77	816.94	816.98	816.88	812.77	796.02
PIER 2	816.03	816.20	816.24	816.14	812.03	796.53
PIER 3	815.50	815.68	815.71	815.62	811.50	796.00

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PIERS 1, 2, & 3 DETAILS

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(BARGS SALT RUN RD.)
CLERMONT CO. I-275
STA. 48+37.04 to STA. 51+62.96

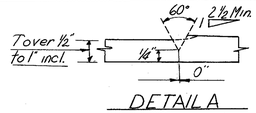
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
RK	TR	AG	JSF	R.K. 10-69	

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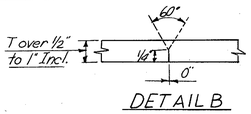
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

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638

CLERMONT COUNTY
CLE-275-6.68

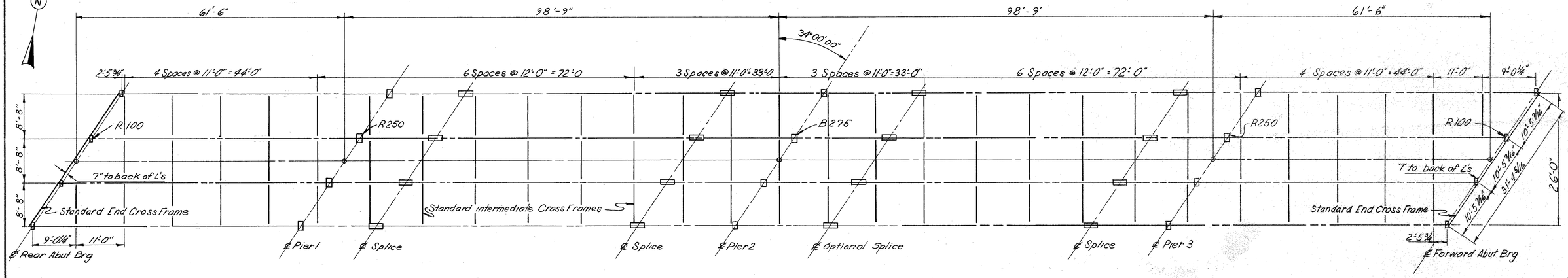


DETAIL A

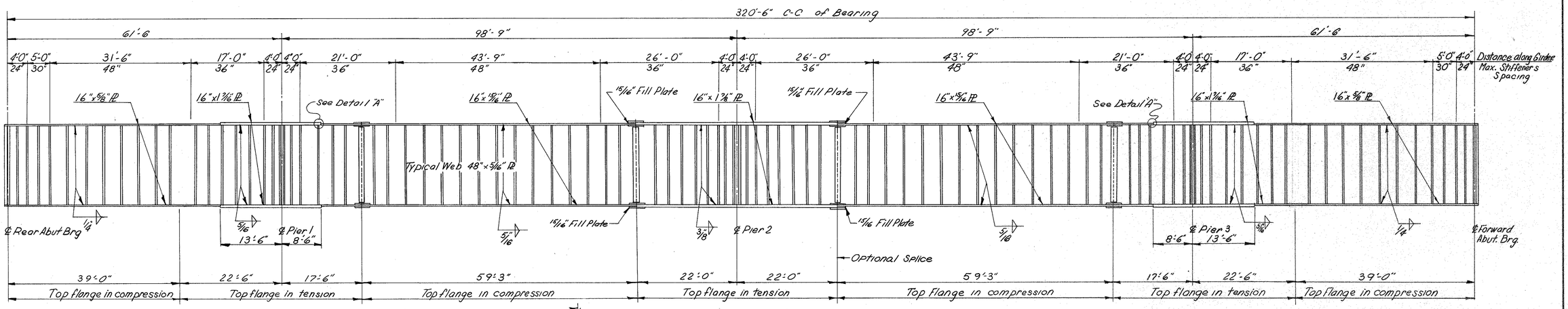


DETAIL B

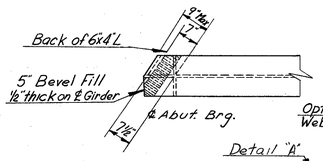
Note: All full penetration welds shall be back-gouged and welded after welding far side. Butt welds on girder flange plates shall be ground flush, the finish grinding being parallel to the direction of the stress.

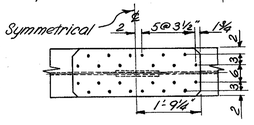


FRAMING PLAN



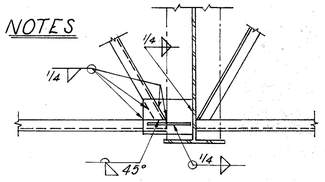
TYPICAL GIRDER



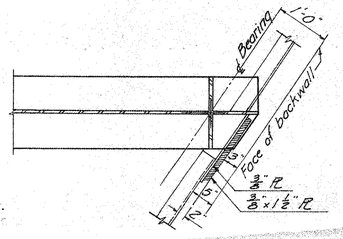


SPLICE

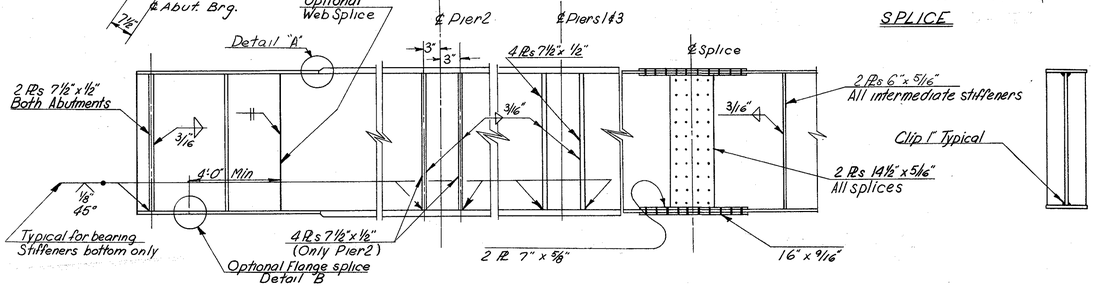
NOTES



1. Field Splices - Open holes shown, are for 1" dia high strength bolts. in accordance with 513.10. Joints shall be friction type.
2. Shop splices: If splices in addition to those shown are required. there location and detail shall be submitted to the Director for approval, prior to ordering of materials.
3. All stiffeners shall be welded as specified by 513.15 of the Construction and Material Specifications.



END CROSSFRAME CONNECTION DETAIL



GIRDER DETAILS

NOTE:
See Camber and layout diagrams on sheet 8 of 9

HARRY BALKE ENGINEERS 7 / 9
990 NASSAU STREET
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FRAMING PLAN

BRIDGE NO. CLE-275-0896
I-275 UNDER TOWNSHIP ROAD T-211
(BARGS SALT RUN RD.)
CLERMONT CO. I-275
STA. 48+37.04 to STA. 51+62.96

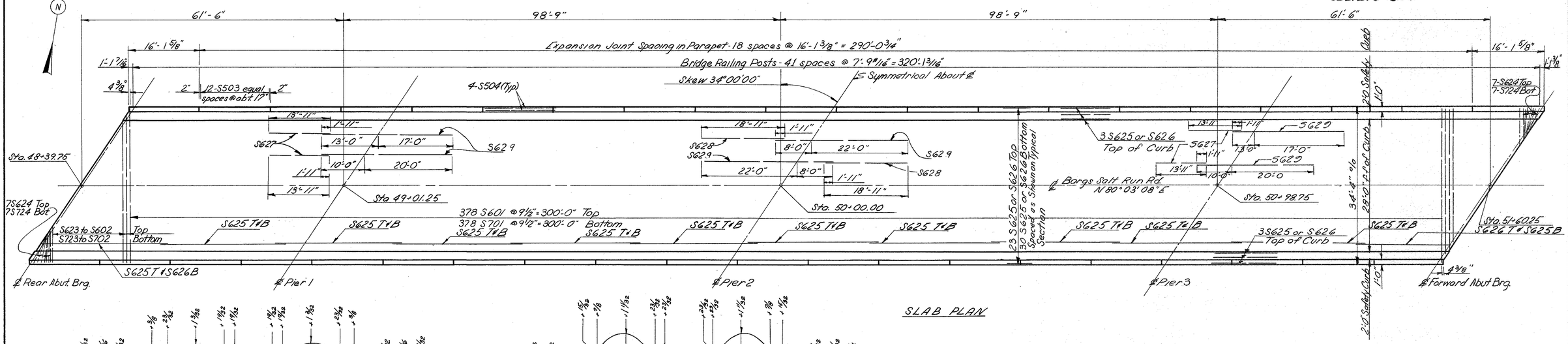
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
M.K	AC JSF	FW	R.K.	R.K. 10-69	

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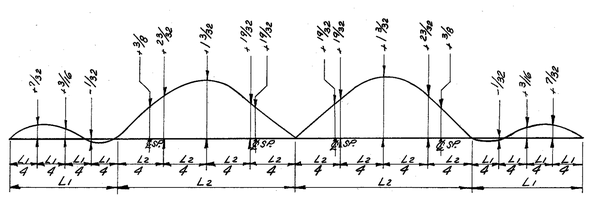
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

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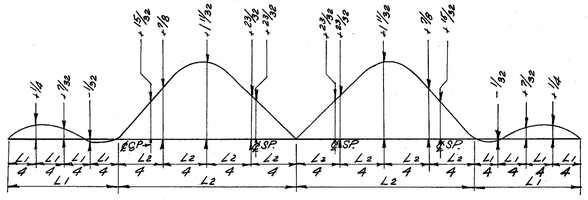
CLERMONT COUNTY
CLE.275-668



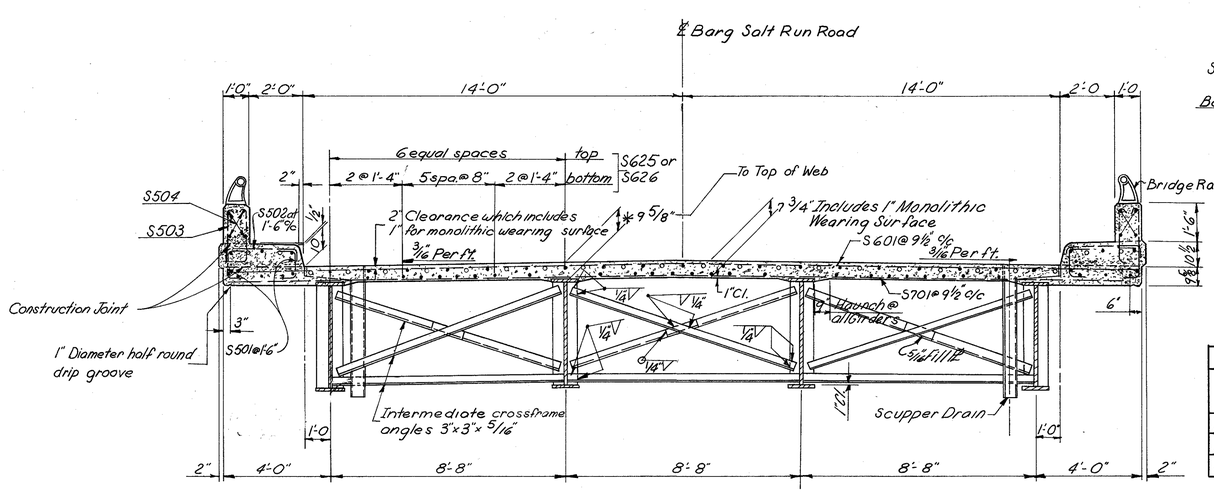
SLAB PLAN



LAYOUT DIAGRAM INTERIOR GIRDER

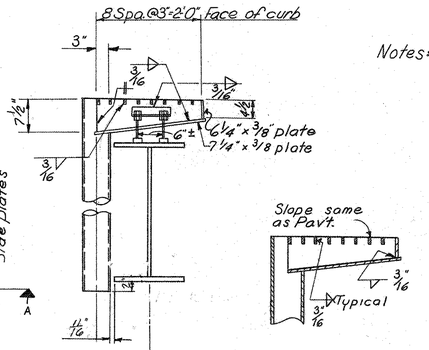


LAYOUT DIAGRAM EXTERIOR GIRDER



TYPICAL SECTION

Note:
ALL bars shown "o" are S627 & S628 or S629
Located over the piers



SCUPPER PLAN

SCUPPER ELEVATION

SECTION A-A

Notes:
1. A typical haunch of 9" shall be used for computing quantity of concrete. However, the haunch width may vary between 6 and 12" provided that the slope shall be not more than 1:4 for a haunch less than 9" in width.
2. * This is the nominal dimension. The quantity of deck concrete to be paid for shall be based upon this dimension, even though deviation from it may be necessary because the top flange of the girder may not have the exact camber or conformation required to place it parallel to the finished grade. Deduction shall be made for volume of encased steel plates as per 511.19 of the Construction and Material Specifications.
3. Parapet concrete and S504 bars are included with 511 for payment.
4. All scuppers shall be as modified on this sheet and similar to a type 2 Scupper on Std Dwg. SD-1-65
5. Crossframe spacings may have to change slightly to avoid interference with the splices.

DEFLECTION AND CAMBER INTERIOR GIRDERS

LOCATION	SPAN 1			SPAN 2					SPAN 3					SPAN 4		
	1/4 Pt.	1/2 Pt.	3/4 Pt.	Sp. Pt.	1/4 Pt.	1/2 Pt.	3/4 Pt.	Sp. Pt.	Sp. Pt.	1/4 Pt.	1/2 Pt.	3/4 Pt.	Sp. Pt.	1/4 Pt.	1/2 Pt.	3/4 Pt.
Def'l. due to Wgt. of steel	+1/16	+1/16	0	+3/32	+3/16	+9/32	+5/32	+5/32	+5/32	+5/32	+9/32	+3/16	+3/32	0	+1/16	+1/16
Def'l. due to remaining DL.	+5/32	+1/8	-1/32	+9/32	+17/32	+13/16	+21/32	+7/16	+21/32	+7/16	+13/16	+17/32	+9/32	-1/32	+1/8	+5/32
Shop Camber	+7/32	+3/16	-1/32	+3/8	+23/32	+1 3/32	+1 1/32	+1 9/32	+1 9/32	+1 9/32	+1 3/32	+23/32	+3/8	-1/32	+3/16	+7/32

DEFLECTION AND CAMBER EXTERIOR GIRDERS

LOCATION	SPAN 1			SPAN 2					SPAN 3					SPAN 4		
	1/4 Pt.	1/2 Pt.	3/4 Pt.	Sp. Pt.	1/4 Pt.	1/2 Pt.	3/4 Pt.	Sp. Pt.	Sp. Pt.	1/4 Pt.	1/2 Pt.	3/4 Pt.	Sp. Pt.	1/4 Pt.	1/2 Pt.	3/4 Pt.
Def'l. due to Wgt. of steel	+1/16	+1/16	0	+3/32	+3/16	+9/32	+5/32	+5/32	+5/32	+5/32	+9/32	+3/16	+3/32	0	+1/16	+1/16
Def'l. due to remaining DL.	+3/16	+5/32	-1/32	+3/8	+11/16	+1 1/16	+9/16	+9/16	+9/16	+9/16	+1/16	+11/16	+3/8	-1/32	+5/32	+3/16
Shop Camber	+1/4	+7/32	-1/32	+15/32	+2/8	+1 7/32	+23/32	+23/32	+23/32	+23/32	+1 7/32	+7/8	+15/32	-1/32	+7/32	+1/4

HARRY BALKE ENGINEERS
990 NASSAU STREET
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SUPERSTRUCTURE DETAILS

BRIDGE NO. CLE-275-0896
I-275 UNDER TOWNSHIP ROAD T-211
(BARGS SALT RUN RD.)
CLERMONT CO. I-275
STA. 48+37.04 to STA. 51+62.96

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
R.K.	SIB	AW	J.S.F.	R.K. 10-69	

MICROFILMED
MAR 27, 1969

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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CLERMONT COUNTY
CLE-275-6.68

REINFORCING STEEL LIST

ABUTMENTS

MARK	SHAPE	LENGTH	NUMBER	REAR	FORWARD	WEIGHT
A-501	Bent	8'-5"	54	27	27	474
A-502	Str.	12'-4"	8	4	4	103
A 503	Str.	9'-6"	16	8	8	158
A 504	Str.	10'-8"	4	2	2	45
A 505	Str.	9'-8"	4	2	2	40
A-506	Str.	18'-4"	8	4	4	153
A-507	Str.	17'-4"	8	4	4	146
A-508	Str.	18'-2"	16	8	8	303
A-509	Str.	16'-10"	8	4	4	140
A-510	Str.	18'-0"	16	8	8	
A-511	Bent	7'-10"	16	8	8	131
A-512	Str.	5'-6	8	4	4	46
A-513	Str.	6'-3"	58	29	29	378
A-514	Bent	5'-7"	52	26	26	304
A-515	Bent	3'-3"	12	6	6	41
A-516	Bent	3'-3"	40	20	20	136
A-517	Bent	9'-6"	4	2	2	40
A-518	Bent	11'-6"	4	2	2	48
A-519	Bent	8'-4"	4	2	2	36
A-520	Bent	6'-3"	54	27	27	352
A-521	Str.	21'0"	84	42	42	1,840
A-522	Str.	12'-9"	8	4	4	106
A-523	Str.	3'-6"	16	8	8	58
A-524	Bent	4'-3"	18	9	9	80
A-525	Bent	3'-10"	16	8	8	64
A-526	Bent	4'-2"	40	20	20	174
A-527	Str.	12'-8"	4	2	2	53
A-528	Str.	11'-8"	4	2	2	49
A-529	Str.	4'-8"	2	1	1	10
A-530	Bent	4'-2"	12	6	6	
A-531	Bent	5'-4"	8	4	4	
A-532	Bent	5'-6"	28	14	14	161
A-533	Bent	3'-8"	12	6	6	46
A-534	Bent	6'-3	4	2	2	26
A-601	Str.	21'-0"	4	2	2	126
A-602	Str.	22'-3"	12	6	6	402
A-603	Bent	11'-9"	54	27	27	954
A-604	Str.	15'-8"	6	3	3	142
A-605	Str.	16'-4"	2	1	1	50
A-606	Bent	18'-9"	26	13	13	716
A-607	Bent	7'-2"	8	4	4	86
A-608	Bent	16'-11	78	39	39	1982
A-609	Str.	7'-0	4	2	2	42
A-610	Bent	9'-5"	8	4	4	114
			TOTAL WEIGHT			10,355

PIERS

MARK	SHAPE	LENGTH	NUMBER	PIER1	PIER2	PIER3	WEIGHT
P401	Str	2'-8	60	20	20	20	107
P402	Str	34'-8"	18	6	6	6	417
P501	Bent	11'-0"	180	60	60	60	2065
P502	Bent	9'-2	12	4	4	4	114
P503	Bent	9'-3	12	4	4	4	116
P504	Bent	9'-4"	12	4	4	4	117
P505	Bent	9'-6"	12	4	4	4	118
P506	Bent	9'-7"	12	4	4	4	120
P507	Bent	9'-7"	12	4	4	4	120
P508	Bent	9'-8	12	4	4	4	121
P509	Bent	9'-10"	12	4	4	4	123
P510	Bent	9'-11"	12	4	4	4	124
P511	Bent	10'-0"	12	4	4	4	125
P512	Bent	10'-2"	12	4	4	4	127
P513	Bent	10'-3"	12	4	4	4	129
P801	Str	8'-2"	96	48	–	48	2093
P1001	Str	9'-2	60	–	60	–	2367
P1101	Bent	6'-10"	72	24	24	24	2613
P1102	Str.	17'-10"	24	24	–	–	2273
P1103	Str.	16'-7"	48	–	24	24	4229
P1104	Str	34'-8	24	8	8	8	4420
P1105	Str	13'-4"	28	8	12	8	1983
P1106	Bent	34'-8"	12	4	4	4	2210
P1107	Str	21'-10"	18	6	6	6	2087
						Total	28318

SPIRAL REINFORCING BARS

MARK	NUMBER	SIZE	CORE DIA.	LENGTH	PITCH	No. OF TURNS	WEIGHT
SP401	2	½ϕ	32"	14'-3"	4½"	41	538
SP402	4	½ϕ	32"	13'-0"	4½"	38	996
						Total	1534

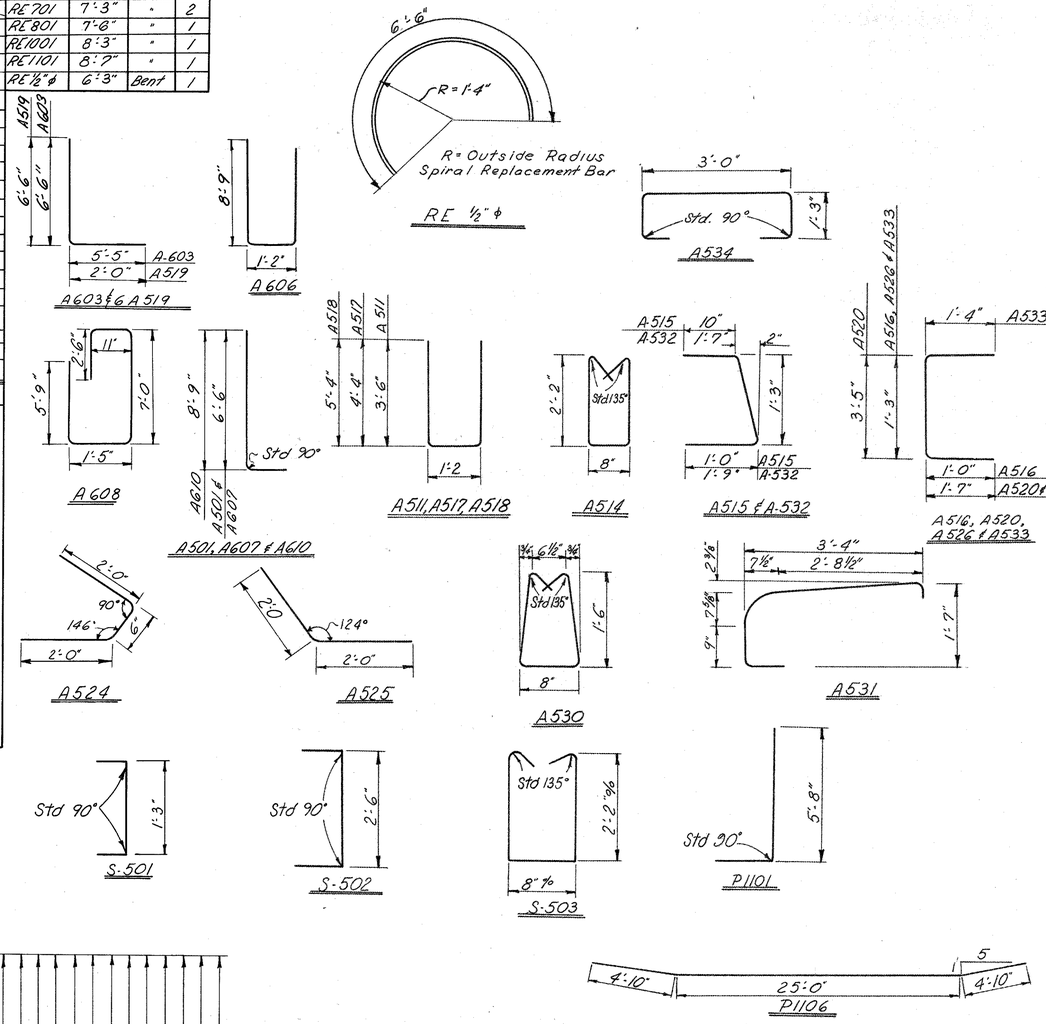
SUPER STRUCTURE

MARK	LENGTH	SHAPE	NUMBER	WEIGHT
S-501	2'-3"	Bent	864	2028
S-502	3'-6"	Bent	432	1577
S-503	5'-7"	Bent	480	2795
S-504	15'-9"	Str.	160	
S-601	33'-8"	Str.	378	19114
S-602	32'-11"	Str.	44	1388
S-602	to 623 Varies by 1'-1"	2 ea		
S-623	9'-1	Str		
S-624	8'-0	Str	14	168
S-625	30'-0"	Str	649	29244
S-626	13'-0"	Str	59	1152
S-627	13'-11"	Str	48	1003
S-628	18'-11"	Str	29	682
S-629	30'-0	Str	72	3244
S-701	33'-8"	Str	378	26012
S-702	32'-11"	Str	44	1889
S-702	to S-723 Varies by 1'-1"	2 ea		
S-723	9'-1"	Str		
S-724	8'-0"	Str	14	229
			Total	90,525

REPLACEMENT BARS

MARK	Length	Shape	No
RE401	6'-3"	Str	1
RE501	6'-7"	"	1
RE601	6'-11"	"	4
RE701	7'-3"	"	2
RE801	7'-6"	"	1
RE1001	8'-3"	"	1
RE1101	8'-7"	"	1
RE½"ϕ	6'-3"	Bent	1

BAR DIAGRAMS



Notes

SPIRAL REINFORCING BARS: The "Length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap. The "Number of Turns" shown is the Length, Minus 2", divided by the pitch plus 3 turns (total number of closed coils), expressed as the nearest whole number. Spiral reinforcing bars shall not have deformations, but shall in other respects conform to 502. 1½ closed coils shall be provided at the ends of each spiral unit.

Four steel channels, tee, or angle spacers, weighing approximately 0.80 lb per lin ft of spacer, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers, based on 0.80 lb per lin. ft., will be paid for, as reinforcing steel and is included in the tabulated quantity of Spiral bars.

BAR SIZE is indicated in the bar mark. The first digit, where three digits are used, and the first two digits, where four are used, indicate the bar size number. For example, S701 is a No 7 size bar, and 1001 is a No 10 size bar. All dimensions are out to out.

Note: A 510, A-530, A-531, S 504 bars are included with 517, for payment.

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REINFORCING STEEL

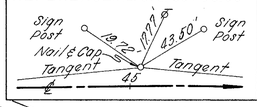
BRIDGE NO. CLE-275-0896
I-275 UNDER TOWNSHIP ROAD T-211
(BARGS SALT RUN RD.)
CLERMONT CO. I-275
STA. 48+37.04 to STA. 51+62.96

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
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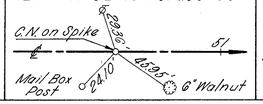
B.M. Cross Notch on most Northerly Bolt on Top Flange of Fire Hydrant, 27' Lt. of Sta. 43+78 Elev. 880.28

MICROFILMED MAR 27 1969

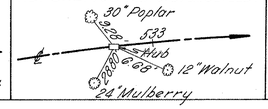
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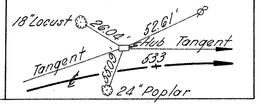
REFERENCE P.O.T. Sta. 50+00



REFERENCE M.P.C. Sta. 532+22.97



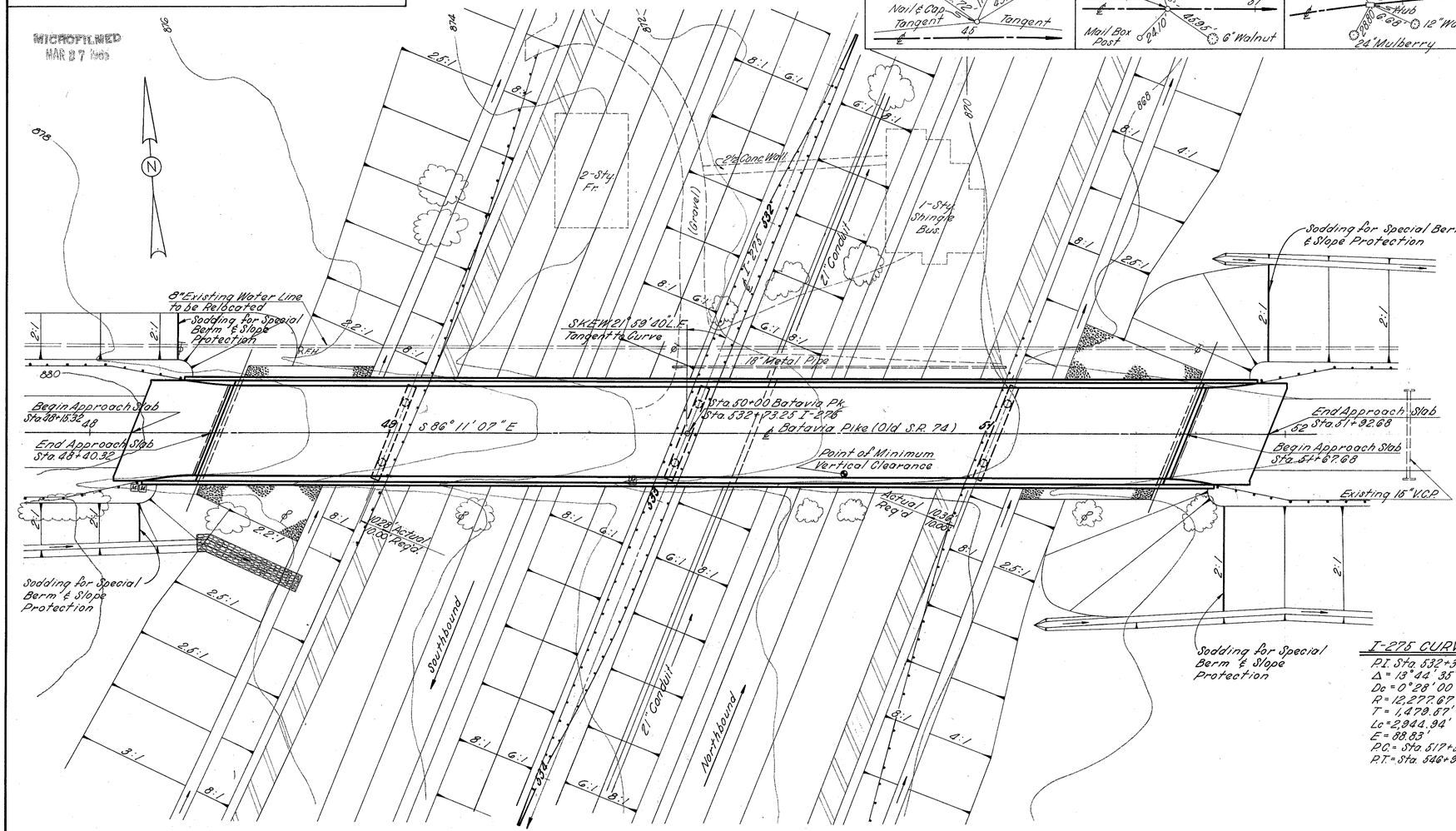
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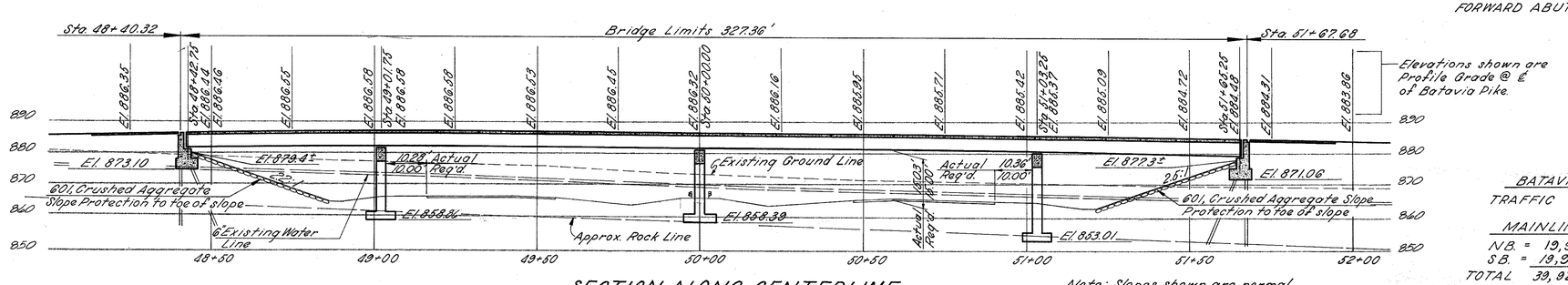
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

563
698

CLERMONT COUNTY
CLE - 275 - 6.68

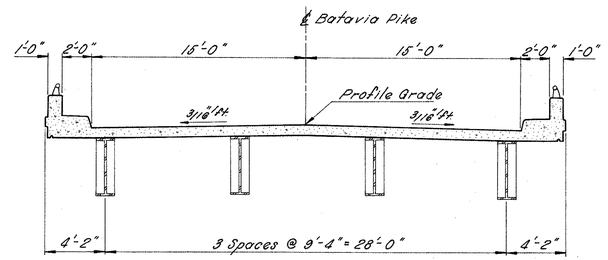


PLAN

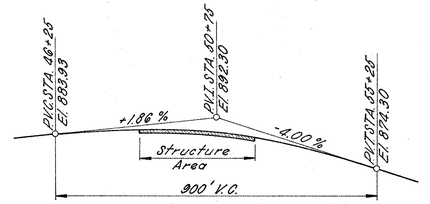


SECTION ALONG CENTERLINE

Note: Slopes shown are normal to ℄ I-275



PROPOSED STRUCTURE



BATAVIA PK. PROFILE GRADE

I-275 CURVE DATA

P.I. Sta. 532+30.07
Δ = 13°44'35"
Dc = 0°28'00" Rt.
R = 12,277.67'
T = 1,479.57'
Lc = 2,944.94'
E = 88.83'
P.C. = Sta. 517+50.50
P.T. = Sta. 546+95.44

ESTIMATED AVG. PAY LENGTH FOR PILES

REAR ABUT. 12' 10BP42
FORWARD ABUT. 22' 10BP42

BATAVIA PIKE

TRAFFIC 1987 = 7,175 A.D.T.

MAINLINE TRAFFIC 1987

N.B. = 19,960
S.B. = 19,960
TOTAL 39,920 A.D.T.

PROPOSED STRUCTURE

TYPE:	Continuous Welded Plate Girder With Reinforced Concrete Deck and Substructure
SPANS:	59'-0", 98'-3", 103'-3", 62'-0"
ROADWAY:	30'-0" ft of 2'-0" Safety Curbs
LOAD FREQUENCY:	CF 400(57)
SKEW:	21°59'40" Left Forward
WEARING SURFACE:	1" Monolithic Concrete
APPROACH SLABS:	A-S-1-67(25' Long)
ALIGNMENT:	Tangent
SAFETY CURBS:	2'-0" Each Side

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CINCINNATI, OHIO 45206

SITE PLAN

BRIDGE NO. CLE.-275-1008
I-275 UNDER COUNTY RD. NO. 71
(CINCINNATI-BATAVIA PIKE)
CLERMONT CO. I-275
STA. 48+40.32 to STA. 51+67.68

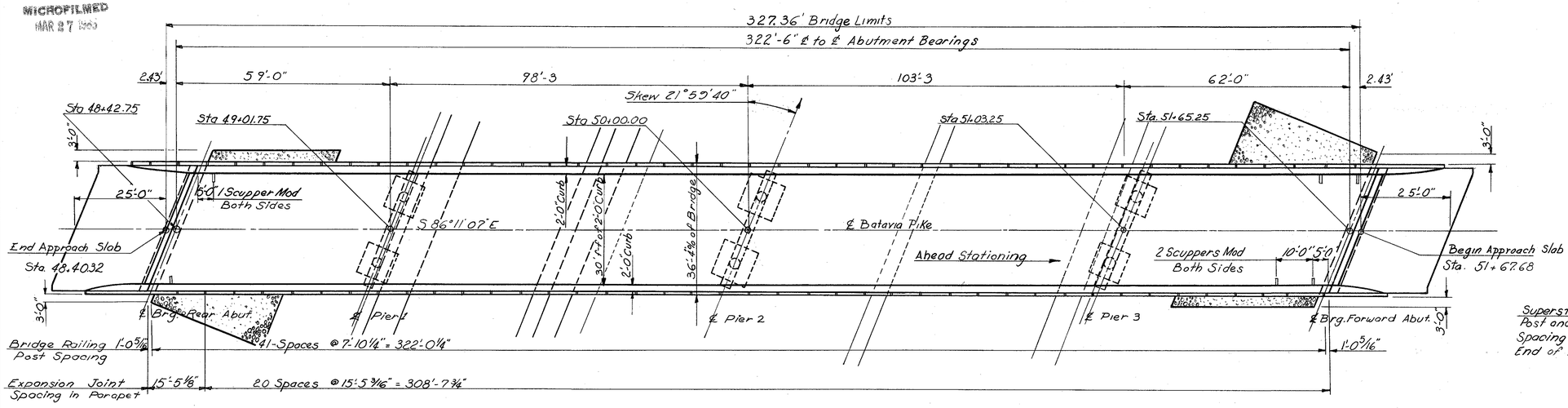
PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
Aerial	A.C.	R.K.	A.C.	R.F.	R.K. 10-69

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MAR 27 1969

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

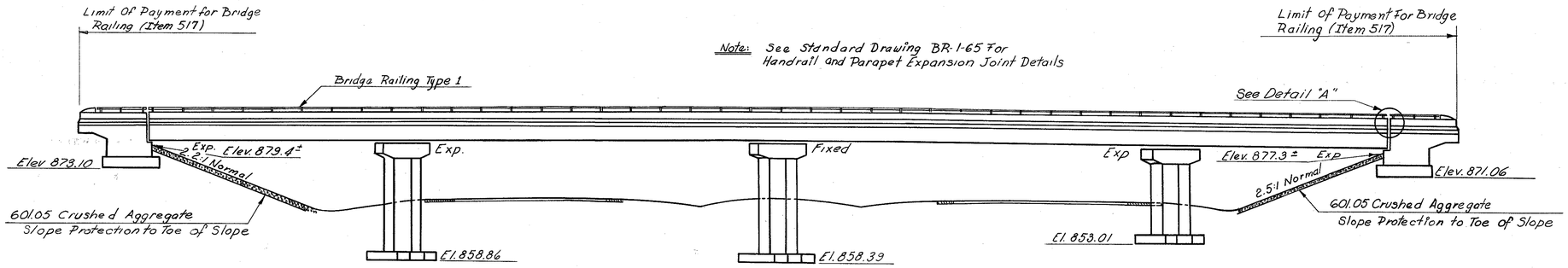
564
638

CLERMONT COUNTY
CLE-275-6.68



NOTE: For Scupper Detail see Superstructure Detail Sheet.

GENERAL PLAN

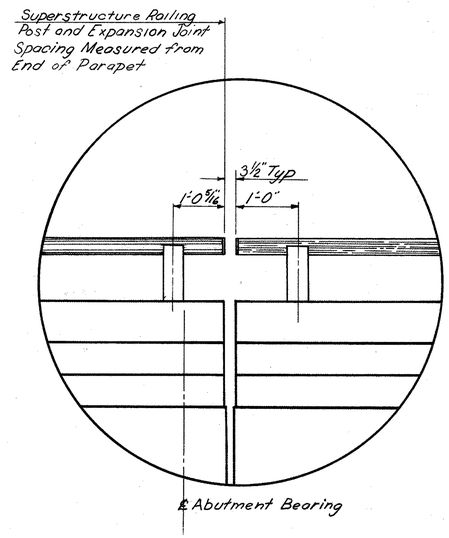


ELEVATION

Left Side																
Elev. 886.23 ℄ Brg. Rear Abut.	Elev. 886.29	Elev. 886.33	Elev. 886.34	Elev. 886.35 ℄ Pier 1	Elev. 886.38	Elev. 886.35	Elev. 886.22	Elev. 886.06 ℄ Pier 2	Elev. 885.95	Elev. 885.82	Elev. 885.62	Elev. 885.36	Elev. 885.07 ℄ Pier 3	Elev. 884.85	Elev. 884.64	Elev. 884.41	Elev. 884.14 ℄ Brg F Abut.
14'-9"	14'-9"	14'-9"	14'-9"	24'-6 3/4"	24'-6 3/4"	24'-6 3/4"	24'-6 3/4"	20'-7 13/16"	20'-7 13/16"	20'-7 13/16"	20'-7 13/16"	20'-7 13/16"	20'-7 3/4"	15'-6"	15'-6"	15'-6"	15'-6"
Right Side																	
Elev. 886.17	Elev. 886.25	Elev. 886.30	Elev. 886.32	Elev. 886.35	Elev. 886.40	Elev. 886.38	Elev. 886.27	Elev. 886.13	Elev. 886.04	Elev. 885.92	Elev. 885.74	Elev. 885.50	Elev. 885.22	Elev. 885.02	Elev. 884.82	Elev. 884.62	Elev. 884.34

CURB LINE ELEVATIONS

NOTE:
Elevations shown are at the face of curb prior to dead load deflection caused by the weight of the concrete deck.



DETAIL "A"

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CINCINNATI, OHIO 45206

GENERAL PLAN & ELEVATION

BRIDGE NO. CLE.-275-1008
I-275 UNDER COUNTY RD. NO. 71
(CINCINNATI - BATAVIA PIKE)
CLERMONT CO. I-275
STA. 48+40.32 to STA. 51+67.68

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
R.K.	AL	F.W.	D.S	R.K. 10-69	

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

565
638

CLERMONT COUNTY
CLE-275-6.68

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER STRUCT	REAR ABUT	FWD ABUT	PIER 1	PIER 2	PIER 3	GEN'L
503	450	Cu Yd	Unclassified Excavation		128	128	40	68	86	
503	24	Cu Yd	Rock Excavation				14	2	8	
503	Lump	Sum	Cofferdams, Cribs and Sheeting							Lump Sum
505	Lump Sum	Lump Sum	First Test Pile							Lump Sum
507	408	Lin Ft	Pile 10BP42		144	264				
509	141,158	Lb	Reinforcing Steel	100,157	6,263	6,263	8,709	10,320	9,442	
511	390	Cu Yd	Class "C" Concrete Superstructure	390						
511	74	Cu Yd	Class "C" Piers Above Footings				24	24	26	
511	130	Cu Yd	Class "C" Concrete Abutments Above Footings		65	65				
511	119	Cu Yd	Class "C" Concrete Footings		36	36	14	19	14	
513	321,439	Lb	Structural Steel	321,439						
514	321,439	Lb	Field Painting of Structural Steel	321,439						
517	717.49	Lin Ft	Bridge Railing Type 1	648.15	34.67	34.67				
518	34	Cu Yd	Porous Backfill		17	17				
518	6	Each	Modified Scuppers Including Supports	6						
518	62	Lin Ft	6" Perforated Helical C.M.P. 707.01 including specials		31	31				
518	78	Lin Ft	6" Non-Perforated Helical C.M.P. 707.01		39	39				
601	465	Sq Yd	Crushed Aggregate Slope Protection		236	229				
808	390	Units	Water Reducing Set Retarding Admixtures for Concrete	390						

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GENERAL NOTES

REFERENCE shall be made to Standard Drawings SD-1-65, Sheets 1 and 2, dated November 3, 1965, BR-1-65, Sheet 1, revised November 24, 1965, RB-1-55 revised February 2, 1959, and to the Supplemental Specifications 808 dated January 1, 1969 811 dated January 1, 1969 836 dated June 17, 1969.

DESIGN SPECIFICATIONS: This structure conforms to the requirement of "Design Specification for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57 together with revision thereof.

DESIGN DATA:

Design Loading	CF 400 (57)
Concrete Class C	Basic Unit Stress 1,333 psi (superstructure)
Concrete Class C	Basic Unit Stress 1,133 psi (substructure)
Structural Steel	ASTM A36 - Basic unit stress 20,000 psi
Reinforcing Steel	ASTM A615, A616 or A617 Deformed Intermediate or Hard Grade. Basic unit stress 20,000 psi. Spiral reinforcement shall be plain bars ASTM A306 or A499.

MACHINE FINISH: The concrete bridge deck shall be finished by use of a finishing machine.

FOOTINGS: Pier footings shall extend a minimum of 3' into undisturbed rock, or to the elevation shown, whichever is lower.

FOUNDATION BEARING PRESSURE: Abutment and pier footings are designed for a maximum bearing pressure of 5 Tons per Sq. Ft.

WELDING: Welds on non-stress carrying members are shown thus: N

ERECTION PROCEDURE: The Contractor shall submit to the Director, for approval, three (3) prints showing the proposed erection procedure for the plate girders.

See sheet 556 for notes titled: Stainless Steel Fasteners, Scuppers, End Dam Painting and Joint Sealer.

HARRY BALKE ENGINEERS
990 NASSAU STREET
CINCINNATI, OHIO 45206

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QUANTITIES & GENERAL NOTES

BRIDGE NO. CLE-275-1008
I-275 UNDER COUNTY RD. NO. 71
(CINCINNATI - BATAVIA PIKE)
CLERMONT CO. I-275
STA. 48+40.32 to STA. 51+67.68

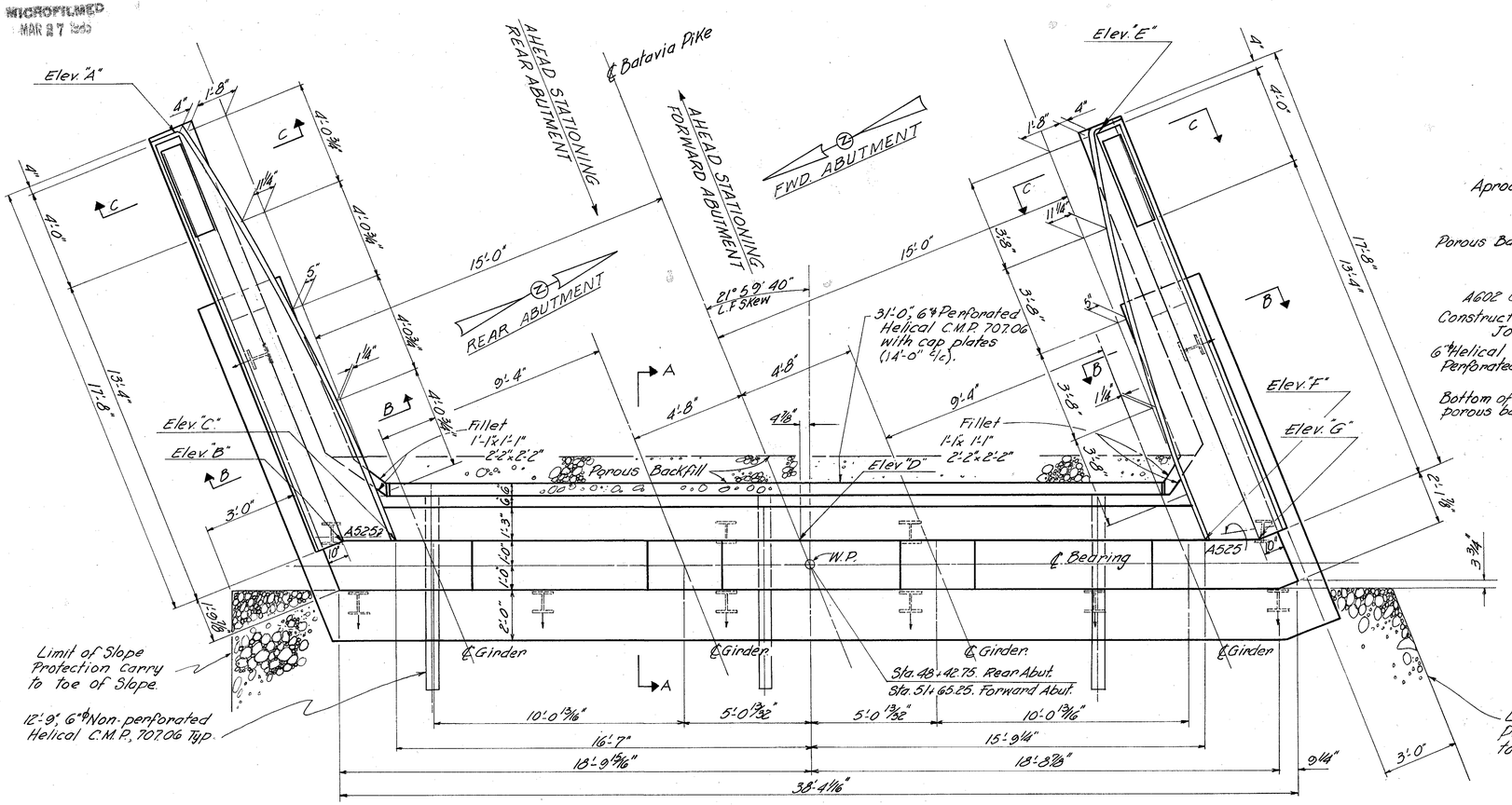
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K.R.	A.G.	A.G.	10-14-66 D.S. V.K. 8-1-68	R.K. 10-69	

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MAR 27 1969

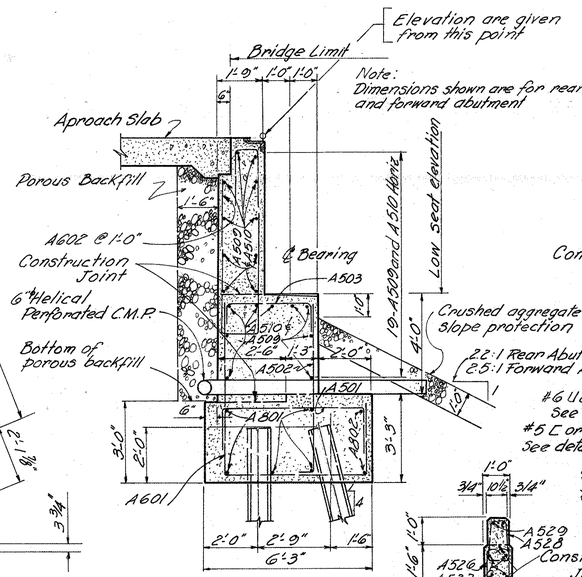
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

566
638

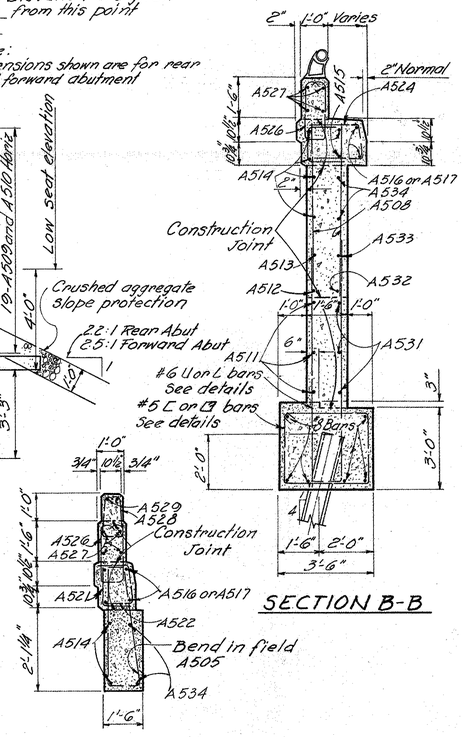
CLERMONT COUNTY
CLE-275-668



PLAN-REAR AND FORWARD ABUTMENT

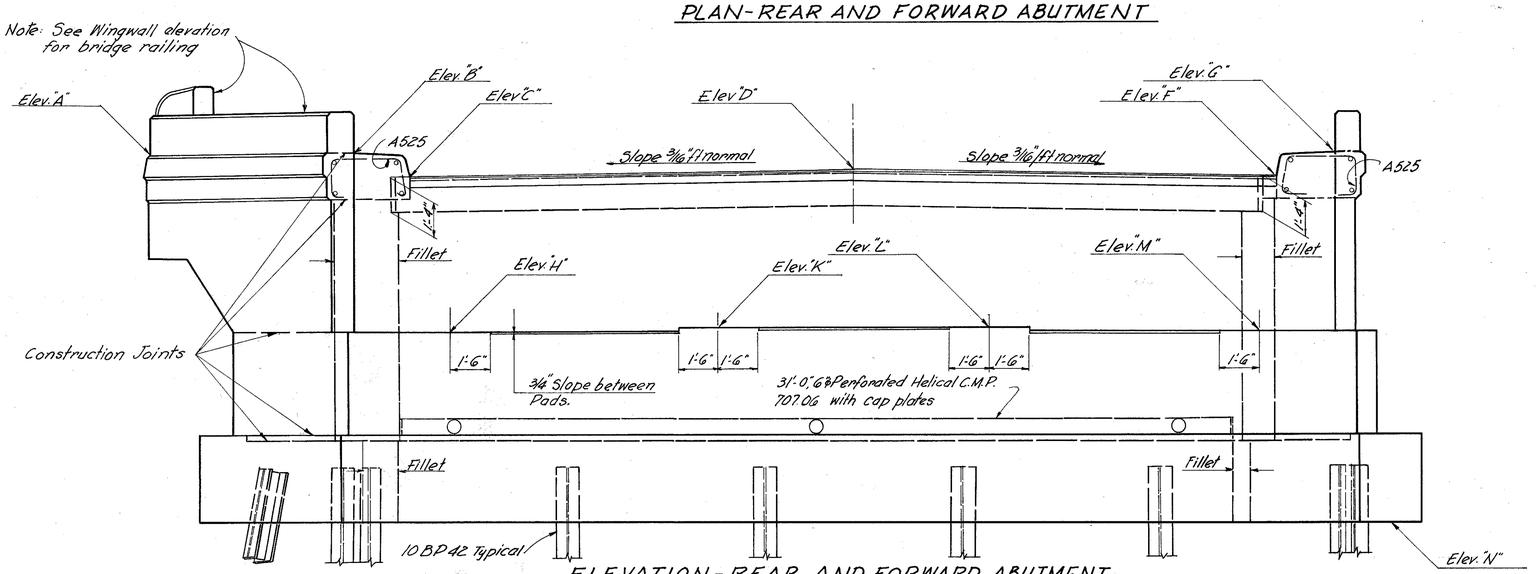


SECTION A-A



SECTION B-B

SECTION C-C



ELEVATION-REAR AND FORWARD ABUTMENT

ABUTMENT	Elev.A	Elev.B	Elev.C	Elev.D	Elev.E	Elev.F	Elev.G	Elev.H	Elev.K	Elev.L	Elev.M	Elev.N
REAR	886.94	887.04	886.17	886.43	887.02	886.22	887.10	880.35	880.51	880.53	880.40	873.10
FORWARD	884.67	884.98	884.12	884.46	884.92	884.32	885.21	878.31	878.52	878.59	878.50	871.06

NOTES:
1. Parapet concrete, A527, A528, & A529 reinforcing bars are included with Item 517 for payment.

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CINCINNATI, OHIO 45206

ABUTMENT DETAILS

BRIDGE NO. CLE.-275-1008
I-275 UNDER COUNTY RD. NO. 71
(CINCINNATI-BATAVIA PIKE)
CLERMONT CO. I-275
STA. 48+40.32 to STA. 51+67.68

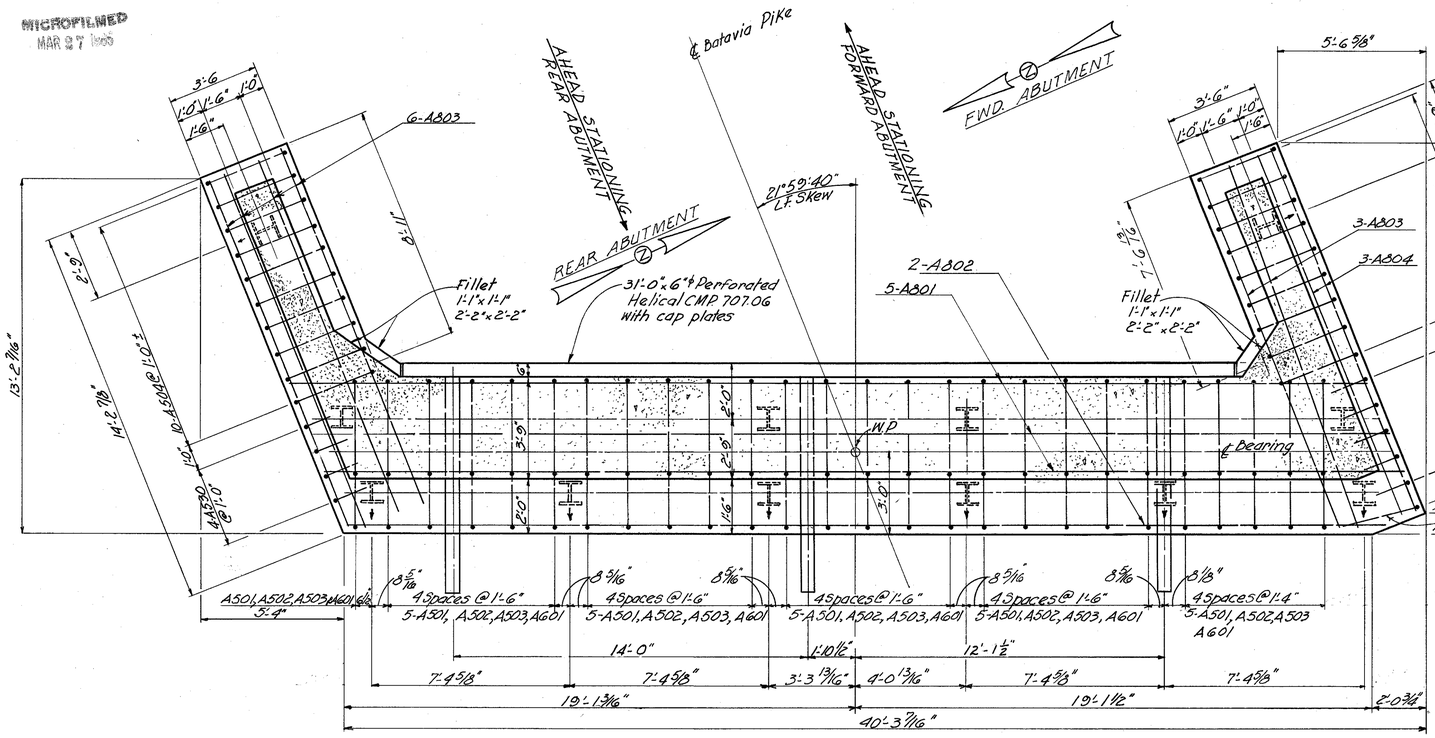
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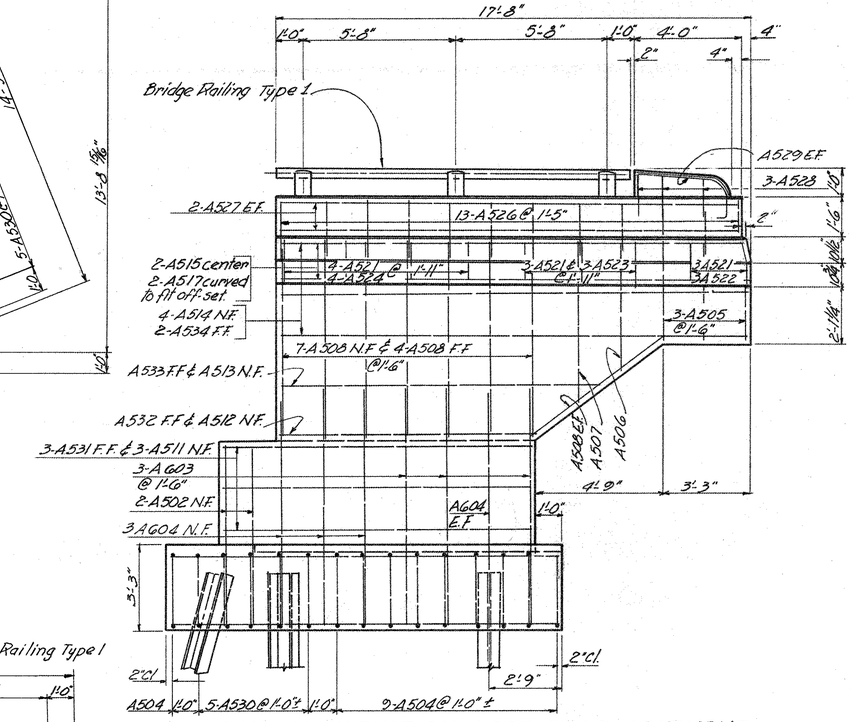
MICROFILMED
MAR 27 1969

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

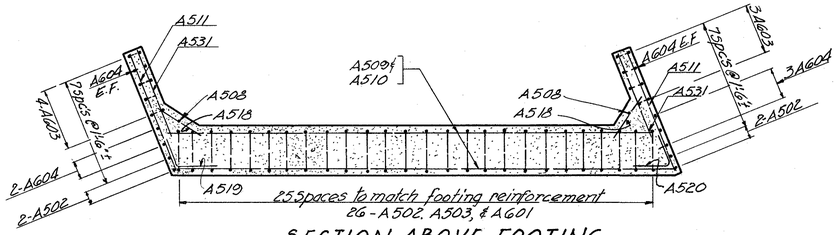
567
638

CLERMONT COUNTY
CLE-275-6.68

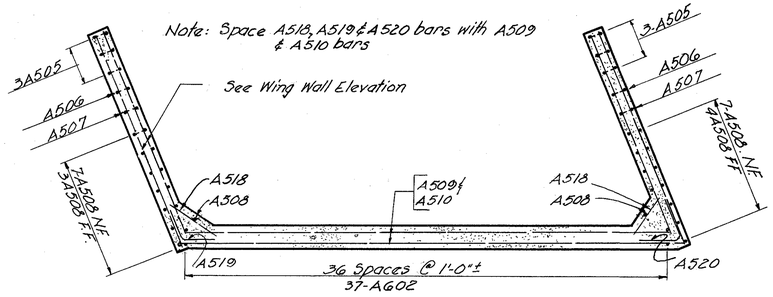




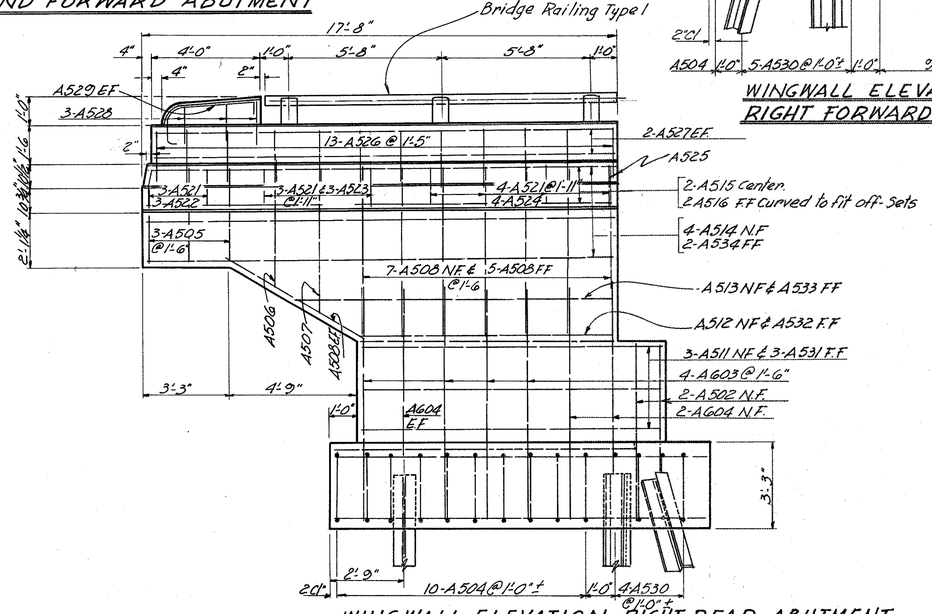
FOOTING PLAN - REAR AND FORWARD ABUTMENT



SECTION ABOVE FOOTING



SECTION ABOVE BRIDGE SEAT



WINGWALL ELEVATION - LEFT REAR ABUTMENT RIGHT FORWARD ABUTMENT

WINGWALL ELEVATION RIGHT REAR ABUTMENT LEFT FORWARD ABUTMENT

Note: E.F = Each Face
F.F. = Far Face
N.F. = Near Face

Arrow indicates direction of batter

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CINCINNATI, OHIO 45206

ABUTMENT DETAILS

BRIDGE NO. CLE-275-1008
I-275 UNDER COUNTY RD. NO. 71
(CINCINNATI - BATAVIA PIKE)
CLERMONT CO. I-275
STA. 48+40.32 to STA. 51+67.68

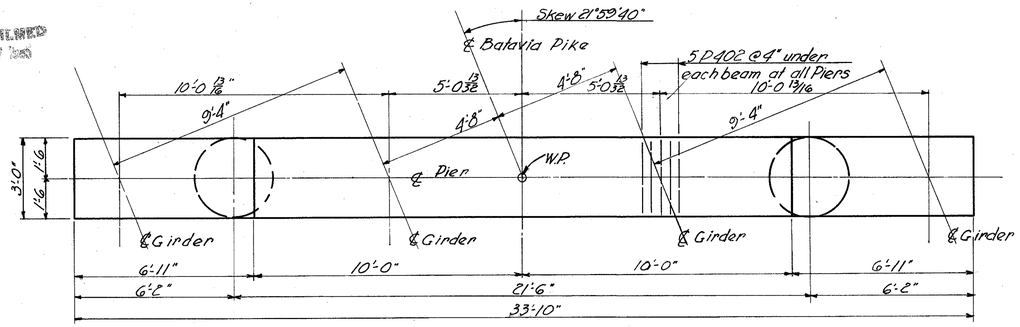
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MICROFILMED
MAR 27 1969

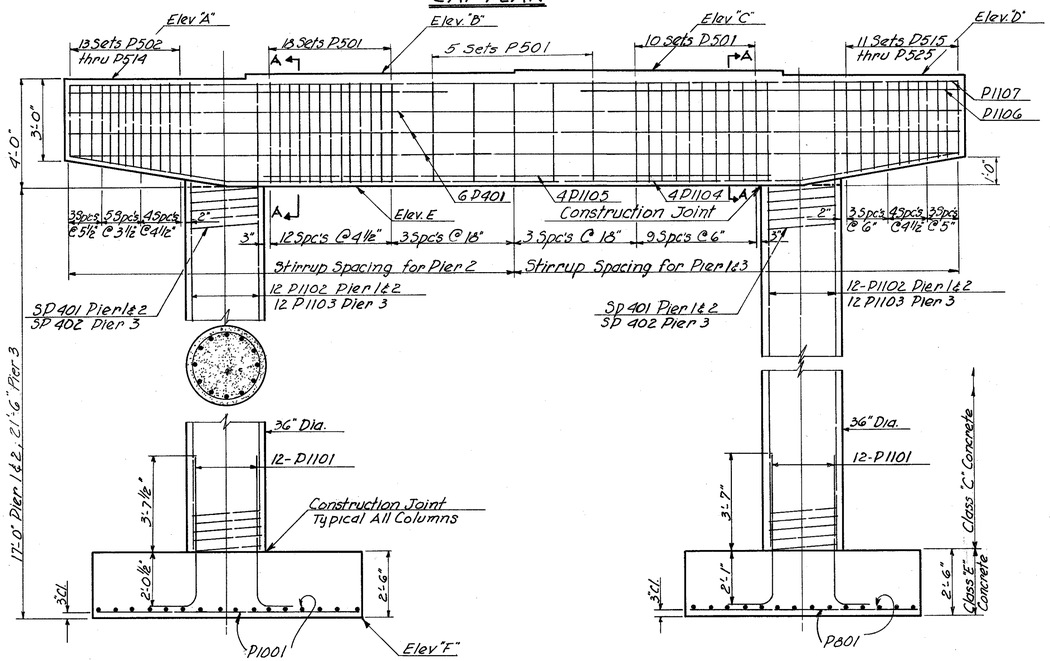
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

568
G38

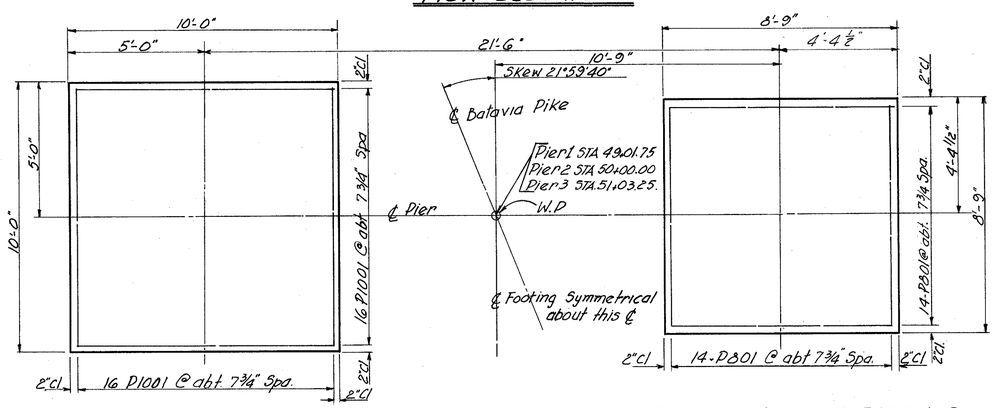
CLERMONT COUNTY
CLE. 275-668.



CAP PLAN



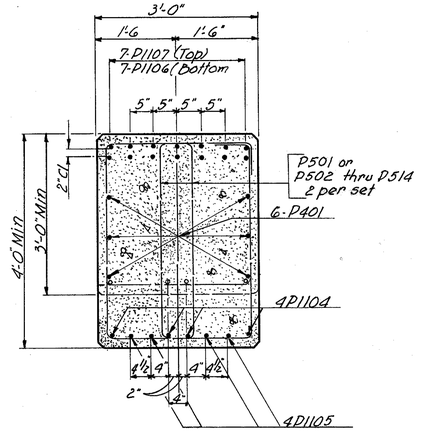
PIER ELEVATION



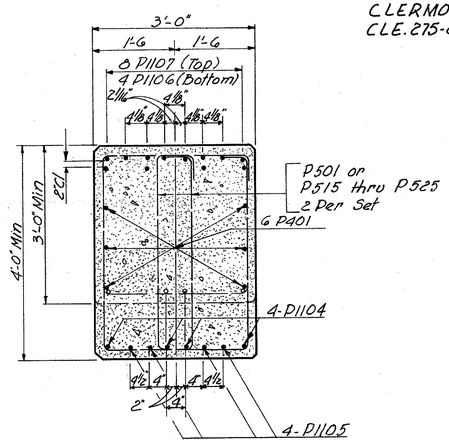
TYPICAL FOOTING PIER 2

TYPICAL FOOTING PIER 1&3

FOOTING PLAN



SECTION A-A
PIER-2



SECTION A-A
PIER-1&3

TYPICAL ANCHOR ROD LOCATION

NOTE:
Special care shall be taken in placing reinforcing in the vicinity of the bridge seat, so as to avoid interference with the drilling of the anchor rod holes at Pier 2.

	ELEV. "A"	ELEV. "B"	ELEV. "C"	ELEV. "D"	ELEV. "E"	ELEV "F"
PIER 1	879.86	880.01	880.00	879.86	875.86	858.86
PIER 2	879.39	879.56	879.58	879.45	875.39	858.39
PIER 3	878.51	878.70	878.75	878.65	874.51	853.01

HARRY BALKE ENGINEERS
990 NASSAU STREET
CINCINNATI, OHIO 45206

G/10

PIER DETAILS

BRIDGE NO. CLE.-275-1008
I-275 UNDER COUNTY RD. NO. 71
(CINCINNATI-BATAVIA PIKE)
CLERMONT CO. I-275
STA. 48+40.32 to STA. 51+67.68

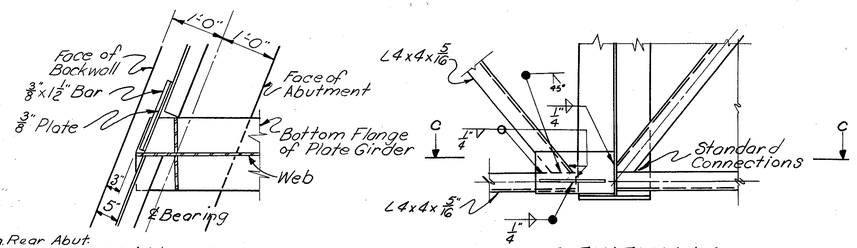
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
RK	KR	AG	D.S.	R.K. 10-69	

MICROFILMED
MAR 27 1975

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

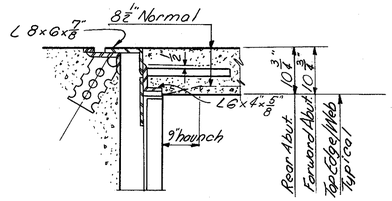
569
638

CLERMONT COUNTY
CLE-275-6.68

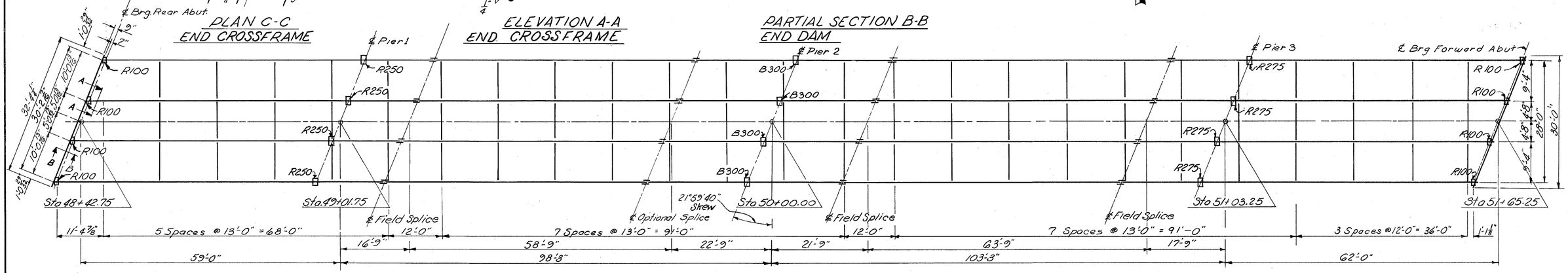


PLAN C-C
END CROSSFRAME

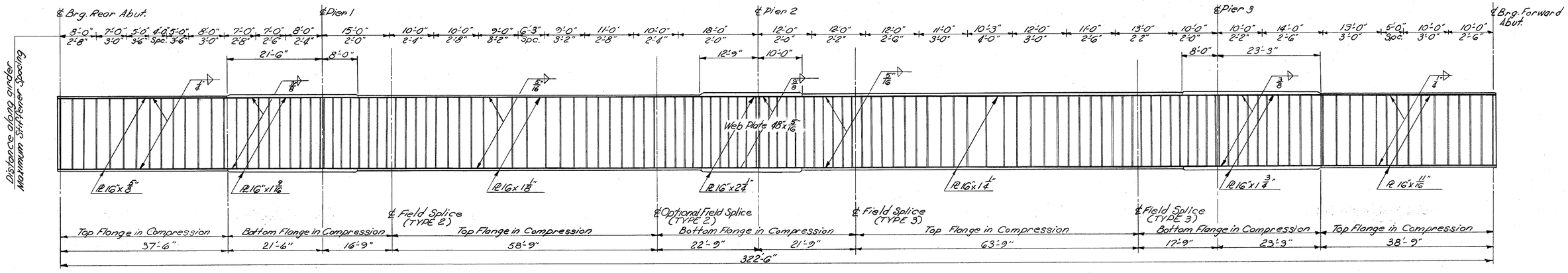
ELEVATION A-A
END CROSSFRAME



PARTIAL SECTION B-B
END DAM



FRAMING PLAN



TYPICAL GIRDER DETAIL

Notes:

1. Shop splices; if splices in addition to those shown are required, their location in detail shall be submitted to the Director for approval prior to ordering of material.
2. All stiffeners shall be welded as specified by Specification 513.15 of the Construction and Material Specifications.
3. Field splices open holes shown are for 1 inch dia. high strength steel bolts in accordance with Specification 513.10. Joint shall be friction type.

HARRY BALKE ENGINEERS 7/10
990 NASSAU STREET
CINCINNATI, OHIO 45206

FRAMING PLAN

BRIDGE NO. CLE-275-1008
I-275 UNDER COUNTY RD. NO. 71
(CINCINNATI-BATAVIA PIKE)
CLERMONT CO. I-275
STA. 48+40.32 to STA. 51+67.68

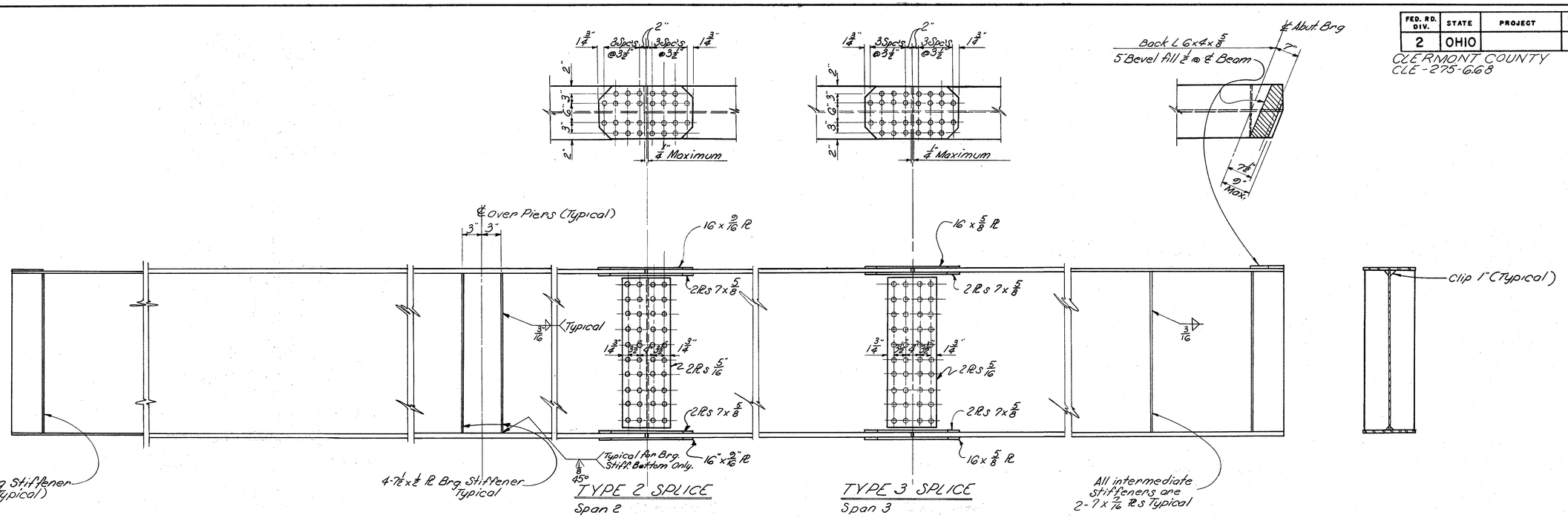
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
J.F.	K.R.	FW	D.S.	R.K. 10-69	

MICROFILMED
MAR 8 7 1969

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

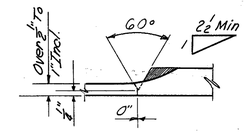
570
638

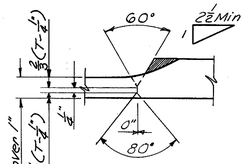
CLERMONT COUNTY
CLE-275-6.68



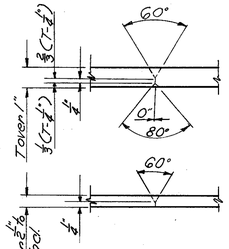
NOTE:
All of the full penetration welds on detail A, B, and C this sheet shall be back-gouged and welded after welding far side

Butt welds on girder flange plates shall be ground flush, the finish grinding being parallel to the direction of stress.

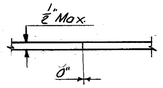




DETAIL "A"



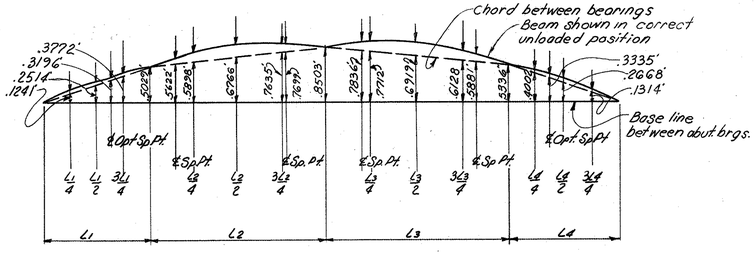
DETAIL "B"



DETAIL "C"
Web Splice

DEFLECTION and CAMBER

		SPAN 1				SPAN 2					SPAN 3					SPAN 4			
		1/4 Pt.	1/2 Pt.		3/4 Pt.	Sp. Pt.	1/4 Pt.	1/2 Pt.	3/4 Pt.	Opt. Sp. Pt.	Sp. Pt.	1/4 Pt.	1/2 Pt.	3/4 Pt.	Sp. Pt.	1/4 Pt.		1/2 Pt.	3/4 Pt.
Interior Girder	Deflection due to wt. of steel	1/32	1/32		0	3/32	1/8	3/16	3/32	3/32	1/8	1/4	1/4	5/32	3/32	-3/32		1/32	1/32
	Deflection due to remaining D.L.	1/8	3/32		-1/32	3/32	1/16	3/32	1/16	2/32	5/32	11/32	5/32	11/32	-1/16		1/16	3/32
	Camber for vertical curve	1/4	11/32		1/4	17/32	23/32	15/16	23/32	27/32	23/32	23/32	1/32	25/32	17/32	3/32		3/8	9/32
	Total deflection and camber	23/32	5/8		3/32	23/32	1 3/32	1 23/32	1 3/8	1 3/32	1/4	1 9/16	2 3/8	1 3/8	1/32	3/16		15/32	13/32
Exterior Girder	Deflection due to wt of steel	1/32	1/32		0	3/32	1/8	3/16	3/32	3/32	1/8	1/4	1/4	5/32	3/32	-3/32		1/32	1/32
	Deflection due to remaining D.L.	3/32	1/8		-1/32	1/32	3/32	3/16	1/32	1/32	1/32	5/32	1/32	1/16	3/32	-1/16		1/32	1/16
	Camber for vertical curve	1/4	11/32		1/4	17/32	23/32	15/16	23/32	27/32	23/32	23/32	1/32	25/32	17/32	3/32		3/8	9/32
	Total deflection and camber	7/16	1/2		3/32	3/32	1/4	1 1/16	1/32	1 3/32	1/32	1 1/16	2 3/16	1 1/32	1 3/32	3/16		1/2	7/16



LAYOUT DIAGRAM

For dimensions above chord between bearings see table for deflection and camber this sheet.

HARRY BALKE ENGINEERS 8/10
990 NASSAU STREET
CINCINNATI, OHIO 45206

BEAM DETAILS

BRIDGE NO. CLE.-275-1008
I-275 UNDER COUNTY RD. NO. 71
(CINCINNATI-BATAVIA PIKE)
CLERMONT CO. I-275
STA. 48+40.32 to STA. 51+67.68

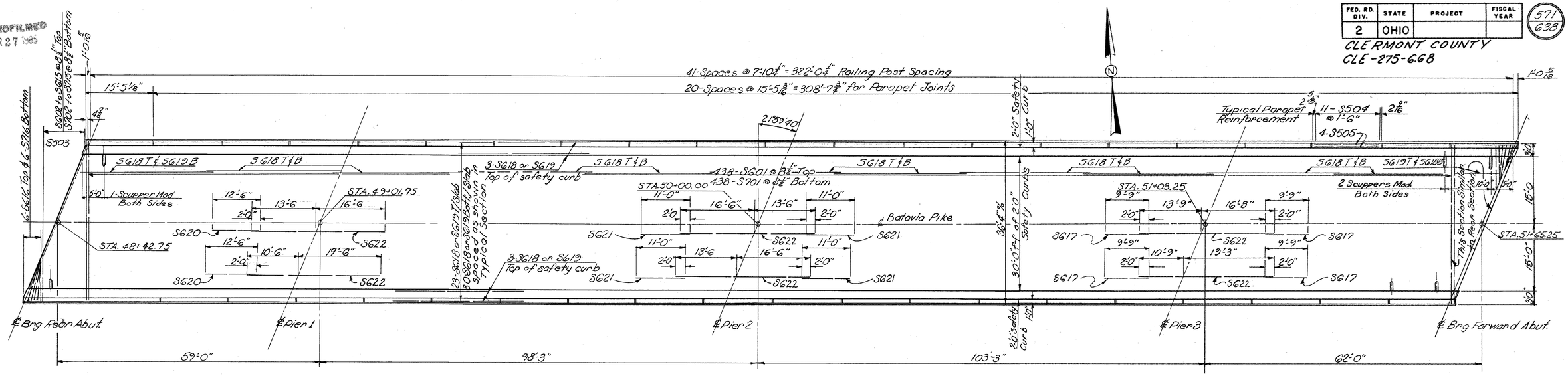
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
J.F.	K.R.	F.W.	D.S.	R.K. 10-69	

MICROFILMED
MAR 27 1985

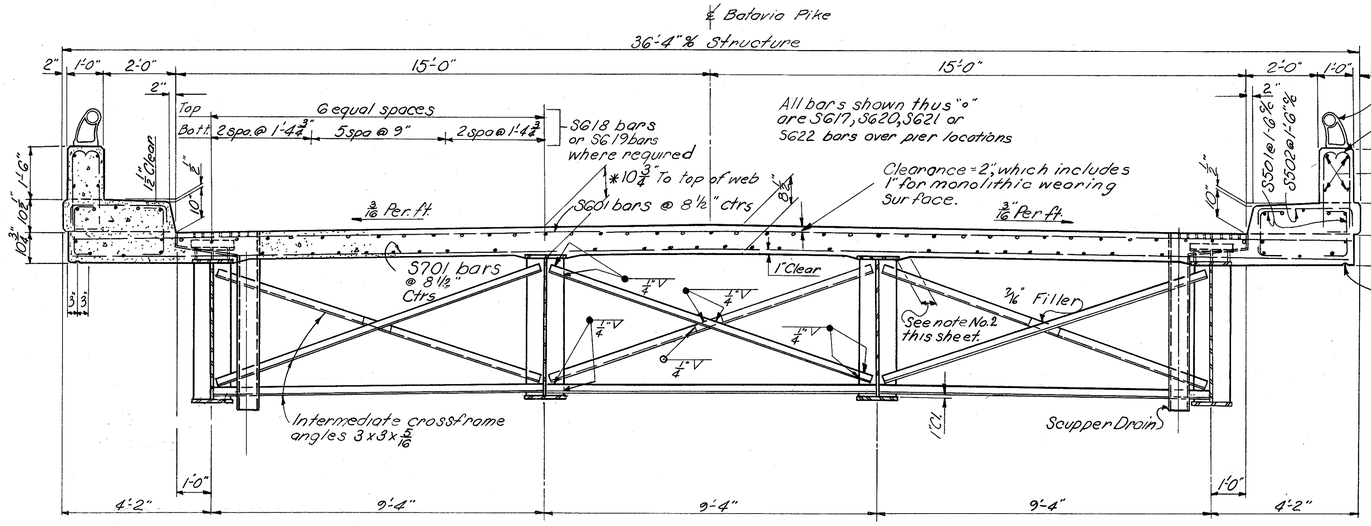
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

571
638

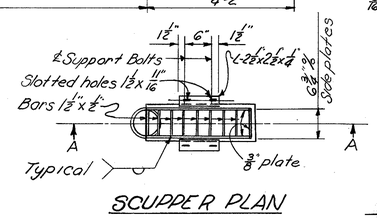
CLERMONT COUNTY
CLE-275-6.68



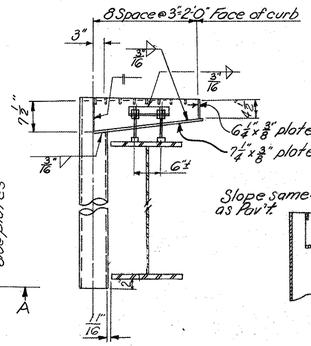
SLAB PLAN



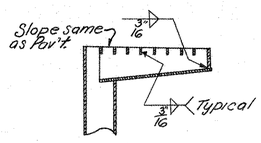
TYPICAL SECTION



SCUPPER PLAN



SCUPPER ELEVATION



SECTION A-A

Notes:

1. All scuppers shall be as modified on this sheet and similar to a Type 2 scupper as shown on Std. Drwg. SD-1-65.
2. A typical haunch width of 9" shall be used for computing quantity of concrete. However, the haunch width may vary between 6" and 12" provided that the slope shall be not more than 1:4 for a haunch less than 9" in width.
3. * Indicates the nominal dimension. The quantity of deck concrete to be paid for shall be based upon this dimension, even though deviation from it may be necessary because the top flange of the girder may not have the exact camber or configuration required to place it parallel to the finished grade. Deduction shall be made for volume of encased steel plates as per 511.19 of the Construction and Material Specifications.

HARRY BALKE ENGINEERS 9/10
990 NASSAU STREET
CINCINNATI, OHIO 45206

SUPERSTRUCTURE DETAILS

BRIDGE NO. CLE.-275-1008
I-275 UNDER COUNTY RD. NO. 71
(CINCINNATI – BATAVIA PIKE)
CLERMONT CO. I-275
STA. 48+40.32 to STA. 51+67.68

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
K.R. J.F.	K.R.	F.W.	D.S.	R.K. 10-69	

MICROFILMED
MAR 8 7 1969

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

572
638

CLERMONT COUNTY
CLE-275-6.68

REINFORCING STEEL LIST

ABUTMENTS

MARK	LENGTH	SHAPE	Nº	REAR	FWD.	WEIGHT
A501	9'-0"	Bent	52	26	26	488
A502	7'-4"		60	30	30	452
A503	7'-0"		52	26	26	380
A504	11'-11"	do	40	20	20	497
A505	7'-11"		12	6	6	100
A506	9'-9"		4	2	2	41
A507	11'-7"	Bent	4	2	2	48
A508	6'-6"	Str.	60	30	30	407
A509	30'-0"		38	19	19	1189
A510	9'-11"		38	19	19	393
A511	11'-4"		12	6	6	142
A512	9'-4"		4	2	2	39
A513	11'-10"	do	4	2	2	49
A514	17'-4"		16	8	8	289
A515	15'-0"		8	4	4	125
A516	17'-10"		4	2	2	74
A517	16'-8"		4	2	2	70
A518	4'-0"	Str.	28	14	14	117
A519	4'-0"	Bent	32	16	16	134
A520	4'-0"		32	16	16	134
A521	2'-10"		40	20	20	118
A522	2'-8"	do	12	6	6	33
A523	3'-0"		12	6	6	48
A524	4'-11"		16	8	8	82
A525	6'-0"		2	1	1	13
A526	5'-7"	Bent	52	26	26	303
A527	17'-0"	Str	16	8	8	
A528	4'-2"	Bent	12	6	6	
A529	5'-4"	Bent	8	4	4	
A530	4'-11"	Bent	18	9	9	92
A531	8'-0"	Str.	12	6	6	100
A532	8'-4"	Str.	4	2	2	35
A533	10'-6"	Str.	4	2	2	44
A534	16'-0"	Str.	8	4	4	134
A601	14'-7"	Bent	52	26	26	1,139
A602	18'-6"	Bent	74	37	37	2.056
A603	19'-2"	Bent	14	7	7	403
A604	9'-10"	Bent	18	9	9	266
A801	21'-5"	Str.	20	10	10	1,144
A802	20'-6"	Str.	8	4	4	438
A803	13'-11"	Str	18	9	9	669
A804	14'-6"	Str	6	3	3	232
					TOTAL	12,524

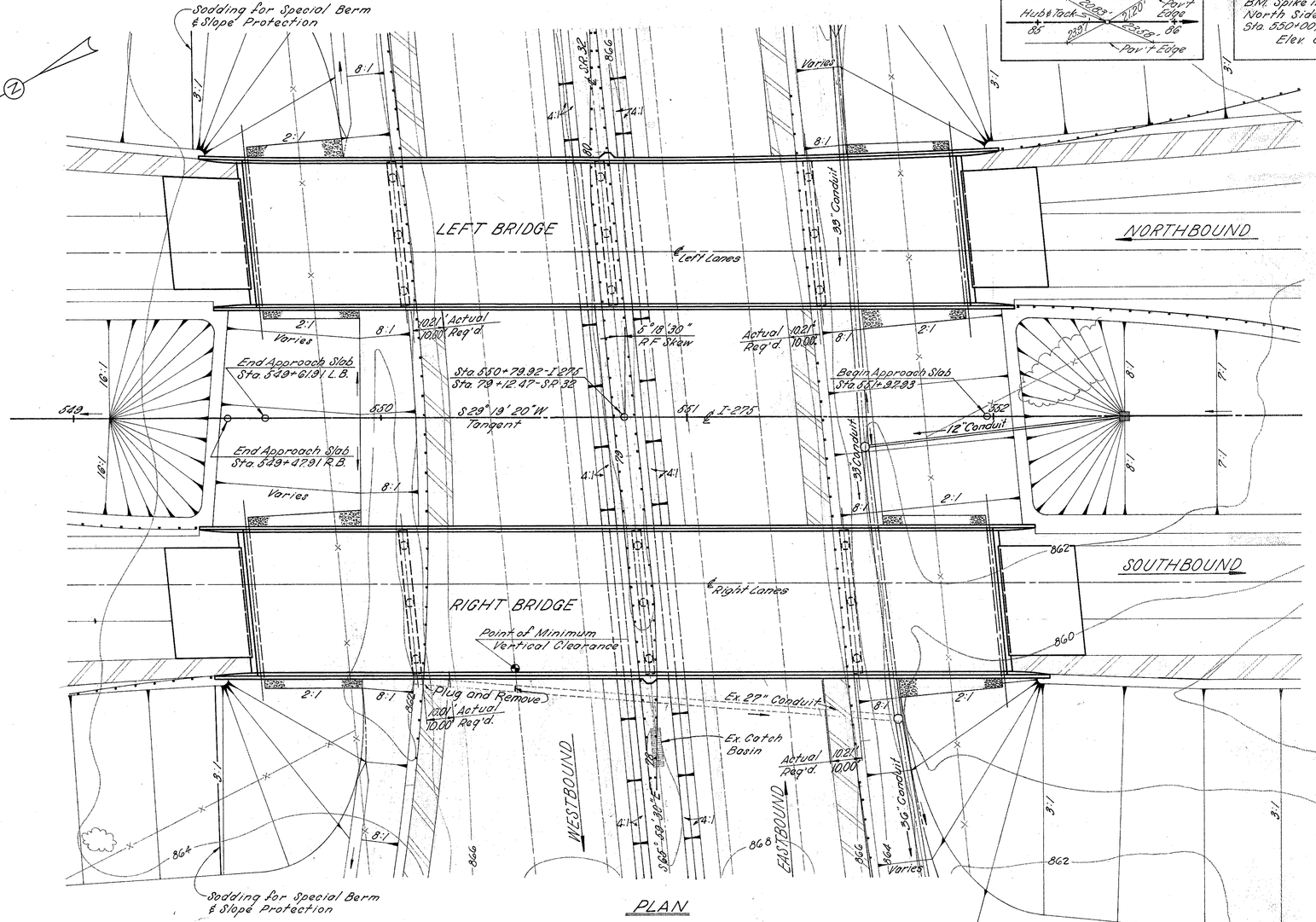
PIERS

MARK	SHAPE	LENGTH	TOTAL Nº	Nº PIER1	Nº PIER2	Nº PIER3	WEIGHT
P401	Str	33'-6"	18	6	6	6	403
P402	Str	2'-8"	60	20	20	20	107
P501	Bent	11'-4"	81	25	31	25	958
P502		10'-10"	4	-	4	-	45
P503		10'-8"	4	-	4	-	45
P504		10'-7"	4	-	4	-	44
P505		10'-5"	4	-	4	-	43
P506		10'-4"	4	-	4	-	43
P507		10'-3"	4	-	4	-	43
P508		10'-2"	4	-	4	-	42
P509		10'-0"	4	-	4	-	42
P510		9'-11"	4	-	4	-	41
P511		9'-10"	4	-	4	-	41
P512		9'-8"	4	-	4	-	40
P513	do	9'-7"	4	-	4	-	40
P514		9'-5"	4	-	4	-	39
P515		10'-10"	8	4	-	4	90
P516		10'-8"	8	4	-	4	89
P517		10'-6"	8	4	-	4	88
P518		10'-3"	8	4	-	4	86
P519		10'-2"	8	4	-	4	85
P520		10'-1	8	4	-	4	84
P521		10'-0"	8	4	-	4	83
P522		9'-10"	8	4	-	4	82
P523		9'-8"	8	4	-	4	81
P524		9'-7"	8	4	-	4	80
P525	Bent	9'-5	8	4	-	4	79
P801	Str	8'-5"	112	56	-	56	2,517
P1001	Str	9'-8"	64	-	64	-	2,662
P1101	Bent	6'-7"	72	24	24	24	2,517
P1102	Str	18'-1"	48	24	24	-	4,612
P1103	Str	22'-7"	24	-	-	24	2,880
P1104	Bent	33'-6"	12	4	4	4	2,136
P1105	Str	18'-6"	12	4	4	4	1,179
P1106	Str	14'-6"	15	4	7	4	1,155
P1107	Str.	33'-6"	23	8	7	8	4,094
						TOTAL	26,635

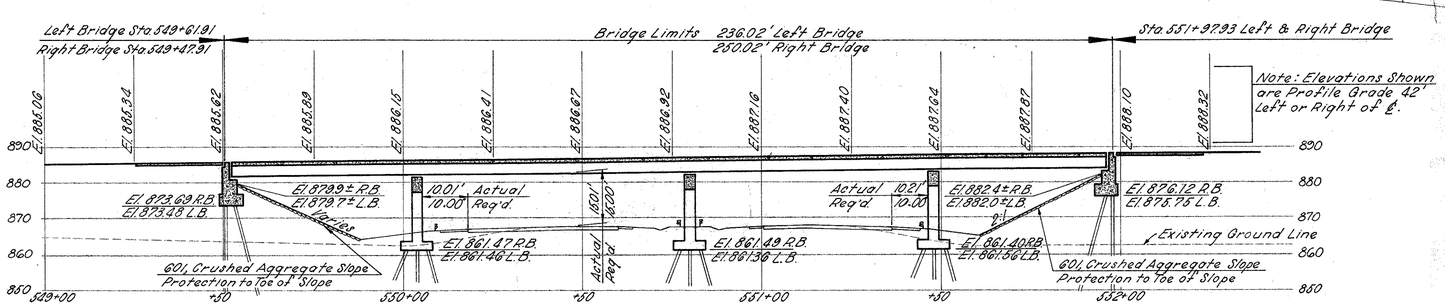
SUPERSTRUCTURE

MARK	SHAPE	LENGTH	NUMBER	WEIGHT
S501	Bent	2'-4"	864	2,103
S502	do	3'-6"	432	1,577
S503	do	6'-2"	2	13
S504	Bent	5'-7"	462	2,680
S505	Str	15'-1"	168	
S601	Str.	35'-8"	438	83,464
S602	Str.	33'-7"		
S602	thru S615		28	934
Varies by	1'-0", 2 each			
S615	Str	10'-10"		
S616	Str	10'-0"	12	180
S617	Str	9'-0"	48	703
S618	Str.	30'-0"	649	29,244
S619	Str.	14'-10"	50	1,314
S620	Str.	12'-6"	24	451
S621	Str.	11'-0"	48	703
S622	Str	30'-0"	72	3244
S701	Str.	35'-8"	438	31,931
S702	Str	33'-7"		
S702	thru S715		28	1,271
Varies by	1'-0", 2 each			
S715	Str	10'-10"		
S716	Str	10'-0"	12	245

MICROFILMED
MAR 27 1968



PLAN



SECTION ALONG ℄ RIGHT LANE

REFERENCE P.O.T. STA. 85+50.00
Hub & Tack 85
20.29' 9.20' 23.91' 23.59' 86
Pav't Edge
Pav't Edge

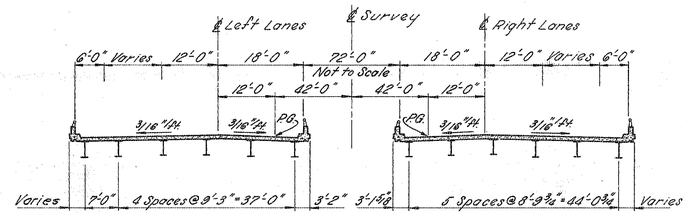
B.M. Spike in Top R/W Post North Side of S.R. #32 Sta. 550+00. 200' Right Elev. 870.15

REFERENCE P.O.T. Sta. 550+79.92
Hub & Tack
Pav't Edge
SR 32
Pav't Edge

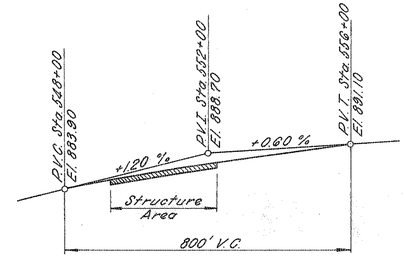
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

573
638

CLERMONT COUNTY
CLE. - 275 - 6.68



PROPOSED STRUCTURE



I-275 PROFILE GRADE

ESTIMATE AVG. PAY LENGTH FOR PILES
All piles are 10BP42
Abutments = 25'
Piers = 10'

MAINLINE TRAFFIC 1987
Northbound = 15,255
Southbound = 20,380
TOTAL = 35,635 ADT

SR-32 TRAFFIC 1987
Eastbound = 12,600
Westbound = 8,315
TOTAL = 20,915 ADT

PROPOSED STRUCTURE

TYPE: Continuous Steel Beam With Reinforced Concrete Deck & Substructure

SPAN: Left Bridge 47'-9", 68'-0", 68'-0", 47'-9"
Right Bridge 53'-6", 76'-3", 68'-0", 47'-9"

ROADWAY: Left Bridge Varies 8½" Parapet
Right Bridge Varies 8½" Parapet

LOAD FREQUENCY: CF 2000(57) Adequate for A.S.S.H.O. Alternate Loading

SKEW: 5°18'30" Right Forward

WEARING SURFACE: 1" Monolithic Conc.

APPROACH SLABS: AS-1-67 (25' Long)

ALIGNMENT: Tangent

CURBS: 1'-0" Each Side

SUPERELEVATION: None

HARRY BALKE ENGINEERS 1/18
990 NASSAU STREET
CINCINNATI, OHIO 45206

SITE PLAN

BRIDGE NO. CLE-275-1042 L&R.
I-275 OVER SR-32
CLERMONT CO. I-275
STA. 549+61.91 to STA. 551+97.93 L.B.
STA. 549+47.91 to STA. 551+97.93 R.B.

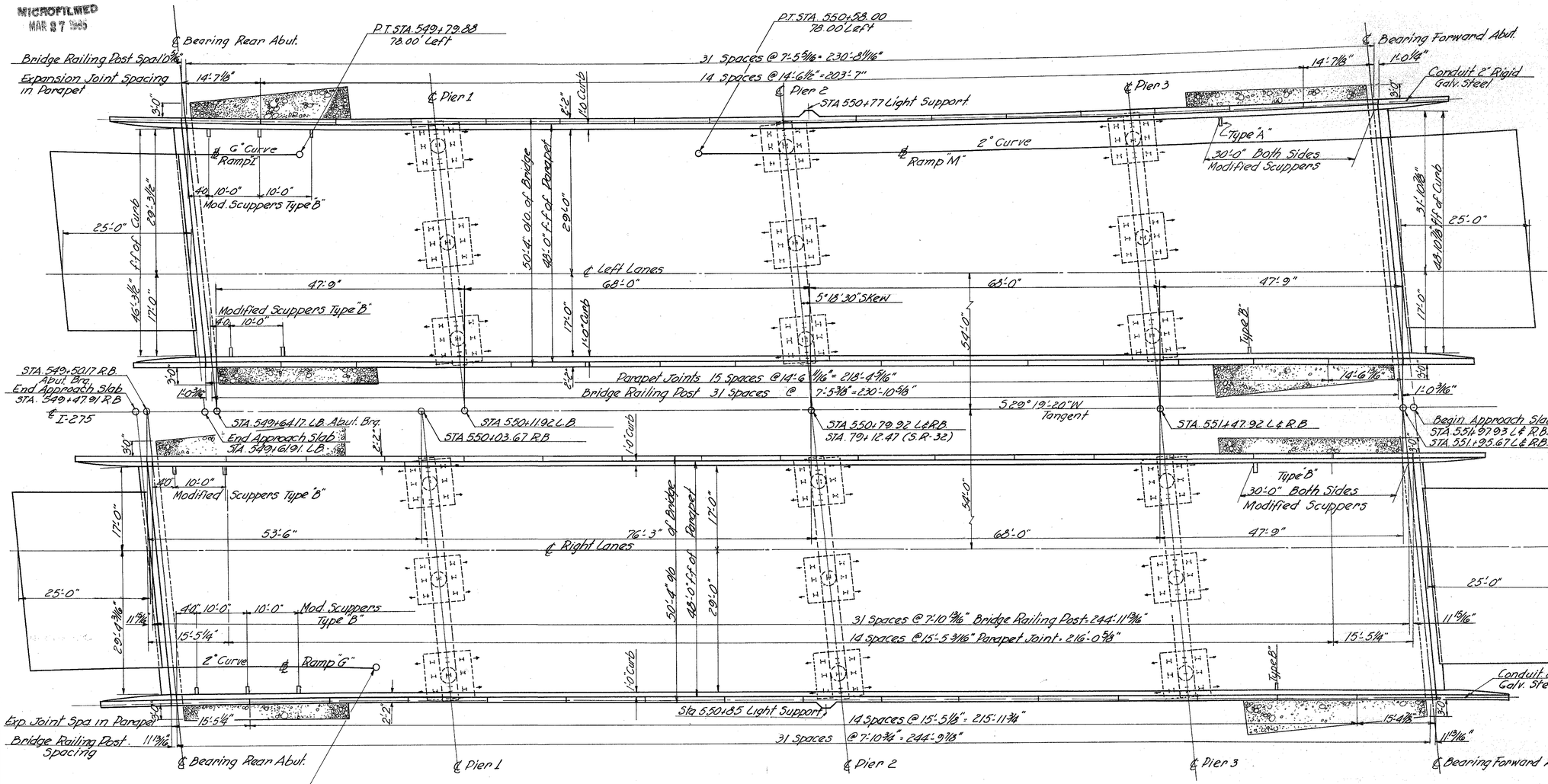
PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
Aerial	A.C.	R.K.	E.G.H.		R.K. 10-67

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MAR 27 1985

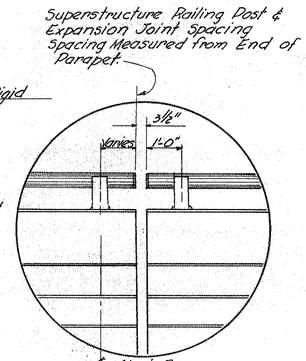
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

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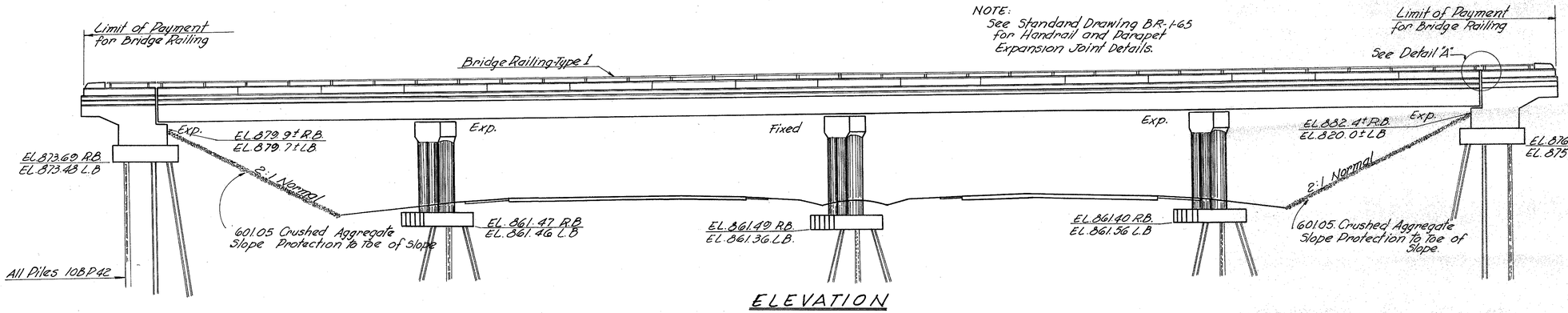
CLERMONT COUNTY
CLE-275-6.68



GENERAL PLAN



DETAIL "A"



ELEVATION

HARRY BALKE ENGINEERS 2/18
990 NASSAU STREET
CINCINNATI, OHIO 45206

GENERAL PLAN & ELEVATION

BRIDGE NO. CLE-275-1042 L.&R.
I-275 OVER S.R.-32
CLERMONT CO. I-275
STA. 549+61.91 to STA. 551+97.93 L.B.
STA. 549+47.91 to STA. 551+97.93 R.B.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
RK	T.R	AG	J.S.F	R.K. 10-69	

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	LEFT BRIDGE SUPER STRUCT	LEFT BRIDGE REAR ABUT.	LEFT BRIDGE FWD ABUT.	LEFT BRIDGE PIER 1	LEFT BRIDGE PIER 2	LEFT BRIDGE PIER 3	LEFT BRIDGE GEN'L	RIGHT BRIDGE SUPER STRUCT	RIGHT BRIDGE REAR ABUT.	RIGHT BRIDGE FWD ABUT.	RIGHT BRIDGE PIER 1	RIGHT BRIDGE PIER 2	RIGHT BRIDGE PIER 3	RIGHT BRIDGE GEN'L
503	985	Cu Yd	Unclassified Excavation		140	145	61	79	69			138	138	62	83	74	
505	Lump Sum	Lump Sum	First Test Pile							Lump Sum							
507	3,000	Lin. Ft.	Pile 10 B 42		375	375	250	250	250			375	375	250	250	250	
509	328,197	Lb.	Reinforcing Steel	109,938	6,567	6,711	13,424	13,600	13,739		112,072	6,567	6,567	12,843	13,003	13,166	
511	762	Cu Yd.	Class "C" Concrete Superstructure	371							391						
511	207	Cu Yd.	Class "C" Piers Above Footing				34	34	35					32	32	33	
511	225	Cu Yd.	Class "C" Concrete Abutment Above Footing		56	58						55	55				
511	310	Cu Yd.	Class "C" Concrete footing		43	45	23	23	23			42	42	23	23	23	
513	624,699	Lb.	Structural Steel	283,265							341,434						
514	624,699	Lb.	Field Painting of Structural Steel	283,265							341,434						
517	1068.74	Lin. Ft.	Bridge Railing Type 1	465.70	27.67	27.67					493.38	27.67	27.67				
518	82	Cu. Yd.	Porous Backfill		21	21						20	20				
518	14	Each	Modified Scuppers Including Supports	7							7						
518	174	Lin. Ft.	6" Perforated Helical CMP 707.01 Including Specials		43	45						43	43				
518	140	Lin. Ft.	6" Non-Perforated Helical CMP 707.01		35	35						35	35				
601	911	Sq Yd	Crushed Aggregate Slope Protection		210	251						246	204				
808	762	Units	Water Reducing Set Retarding Admixtures for Concrete	371							391						
																	1,481

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FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
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CLERMONT COUNTY
CLE-275-6.68

GENERAL NOTES

REFERENCE shall be made to Standard Drawings SD-1-65, Sheets 1 thru 3, dated November 8, 1965, BR-1-65, Sheet 1, revised November 24, 1965, RB-1-55, revised February 2, 1959, and to the Supplemental Specifications 808, dated January 1, 1969, 811, dated January 1, 1969 836, dated June 17, 1969.

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specification for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57 together with revisions thereof.

DESIGN DATA:

Design Loading	C F 2000 (57)
Concrete Class C	Basic unit stress 1,333 psi (superstr.)
Concrete Class C	Basic unit stress 1,1.33 psi (substructure
Structural Steel	ASTM A36-Basic unit stress 20,000 psi
Reinforcing Steel	ASTM A615, A616 or A617 Deformed Intermediate or Hard Grade. Basic unit stress 20,000 psi. Spiral reinforcement shall be plain A306 or A499.

MACHINE FINISH: At the Contractors option, the concrete deck may be finished by the use of a finishing machine.

FIRST TEST PILE: Payment will be made for only the first test pile. It may be driven for either the Left or Right Bridge.

PILES: Shall be driven with a hammer of not less than 11,000 ft. lbs. per blow to firm contact with rock. If the length of penetration is approximately equal to the depth to rock according to the bridge foundation investigation report, the firm contact shall be considered as attained when the capacity according to the formula in Sec. 507.18 is not less than the following value for a pile hammer of the indicated energy rating.

For the abutment and pier piles - 50 Tons per pile using a 11,000 ft. lbs. hammer
- 43 Tons per pile using a 15,000 ft. lbs. or greater hammer

If the energy rating of the hammer is between the ratings as shown above, the required formula capacity shall be determined by interpolation. The design load is 35 Tons per pile for the abutment or pier piles.

EXCAVATION QUANTITIES: Includes the removal of fill material required for construction at the abutments.

PROCEDURE: The embankment shall be placed and compacted up the finished spill-thru slope and to the level of subgrade for a distance of (200 ft.) back of the abutments, after which excavation may be made for the abutment.

WELDING: Welds on non - stress carrying members are shown thus :



See sheet 556 for notes titled: Stainless Steel Fasteners, Scuppers, End Dam Painting and Joint Sealer.

HARRY BALKE ENGINEERS
990 NASSAU STREET
CINCINNATI, OHIO 45206

3/18

QUANTITIES & GENERAL NOTES

BRIDGE NO. CLE-275-1042 L.&R.
I-275 OVER S.R.-32
CLERMONT CO. I-275
STA. 549+61.91 to STA. 551+97.93 L.B.
STA. 549+47.91 to STA. 551+97.93 R.B.

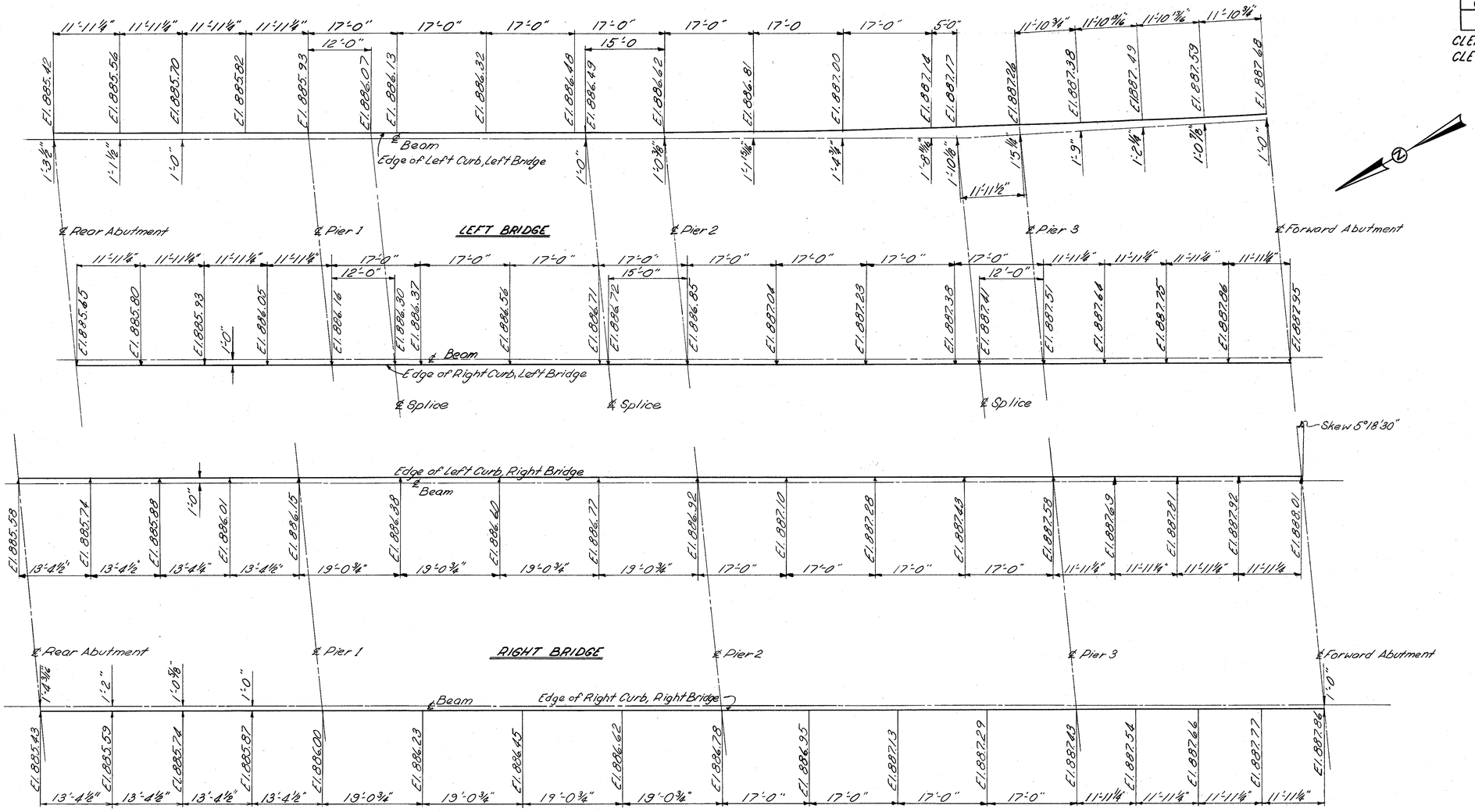
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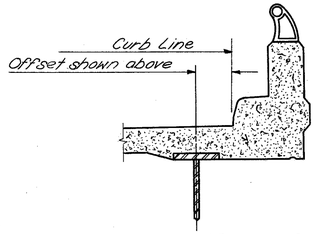
MICROFILMED
MAR 27 1969

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

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638

CLERMONT COUNTY
CLE-275-6.68





SECTION THRU CURB

Note: Elevations shown are at face of curb prior to dead load deflection caused by the weight of the concrete deck.
Offsets as shown above are radial ℄ distances are measured along ℄ Exterior Beam.

HARRY BALKE ENGINEERS 4/18
990 NASSAU STREET
CINCINNATI, OHIO 45206

CURB OFFSETS & ELEVATIONS

BRIDGE NO. CLE.-275-1042 L.&R.
I-275 OVER S.R.-32
CLERMONT CO. I-275
STA.549+61.91 to STA.551+97.93 L.B.
STA.549+47.91 to STA.551+97.93 R.B.

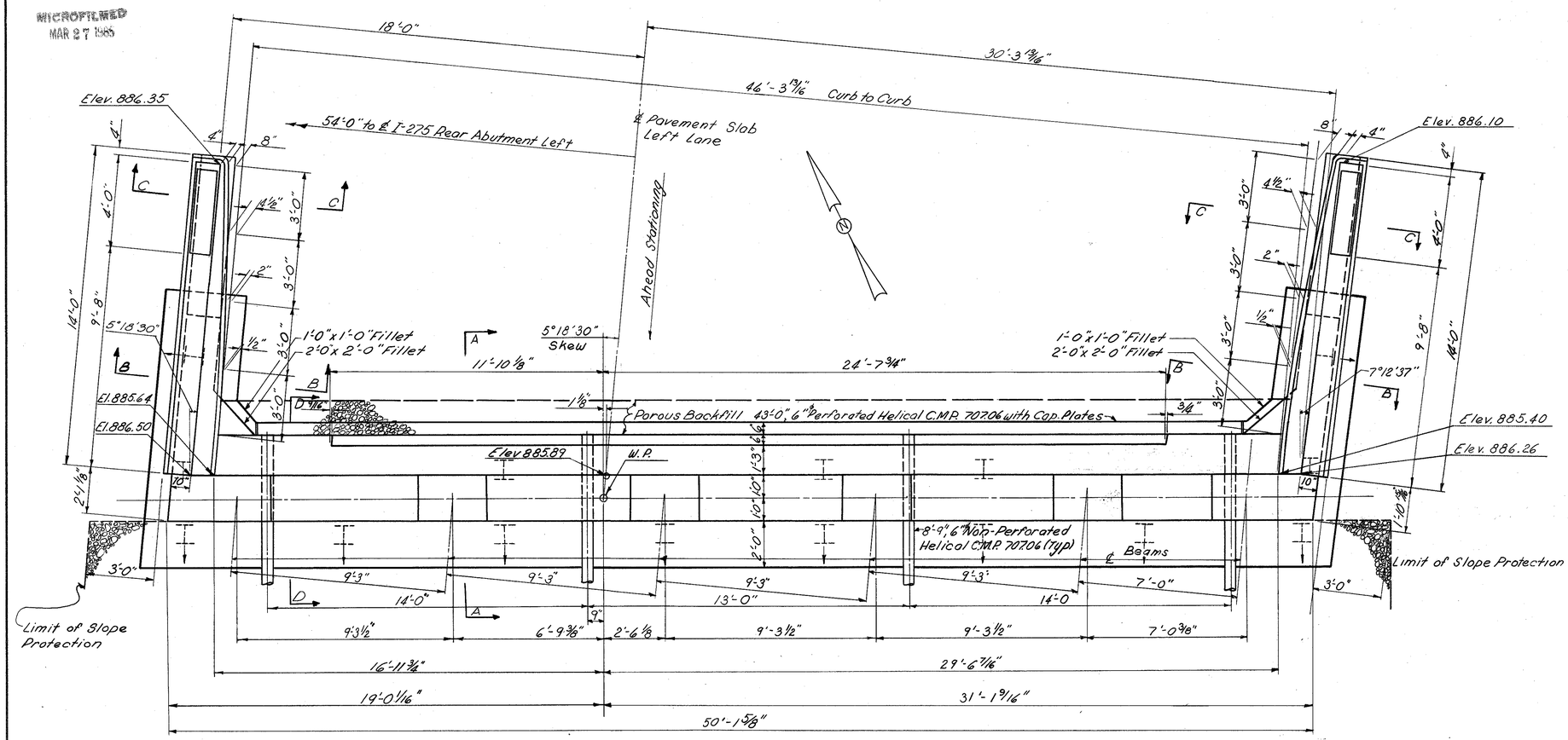
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R.K.	WP	F.W.	R.K.	R.K. 10-69	

MICROFILMED
MAR 27 1969

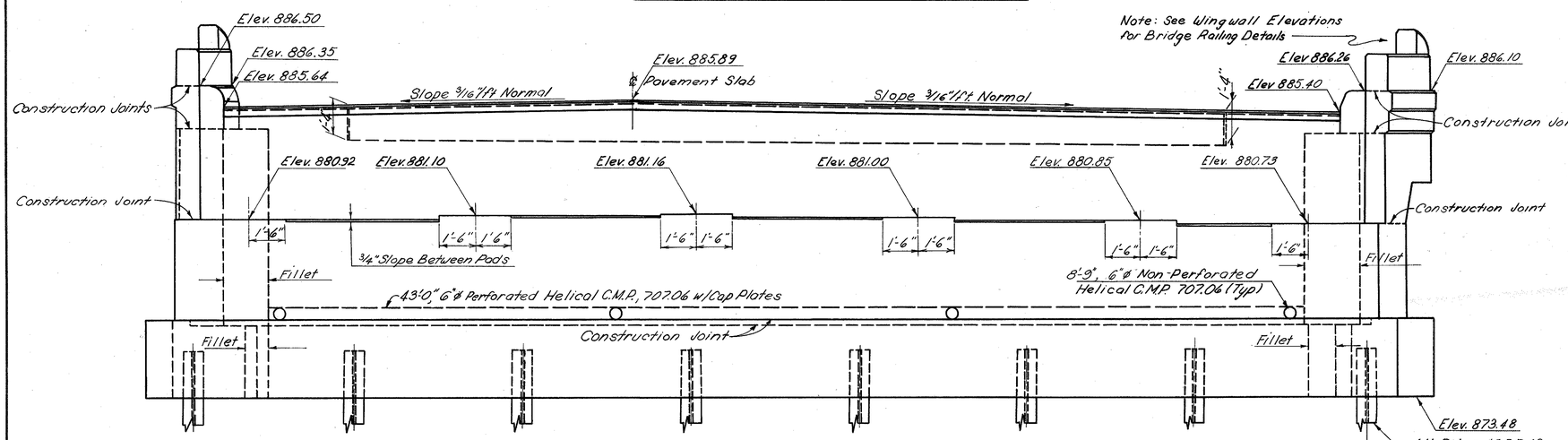
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

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CLERMONT COUNTY
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PLAN-REAR ABUTMENT LEFT BRIDGE



ELEVATION-REAR ABUTMENT LEFT BRIDGE

Notes:
1. For Sections CC and BB, See Rear and Forward Plan and Elevation See Sht. 7/18
2. For Sections AA and DD See Rear and Forward Plan and Elevation Sheet 7/18
3. For Wingwall Elevation See Rear and Forward Footing Plan Sheet 6/18

4. Piles Marked thus H→ to be Battered 1:4 in the Direction of the Arrow.

5. Parapet Concrete and Reinforcing bars Included in Item 517 for Payment. See Standard Drawing BR-1-65. EF=EachFace, NF=NearFace, FF=FarFace.

HARRY BALKE ENGINEERS 5/18
990 NASSAU STREET
CINCINNATI, OHIO 45206

ABUTMENT DETAILS

BRIDGE NO. CLE-275-1042 L.&R.
I-275 OVER S.R.-32
CLERMONT CO. I-275
STA. 549+61.91 to STA. 551+97.93 L.B.
STA. 549+47.91 to STA. 551+97.93 R.B.

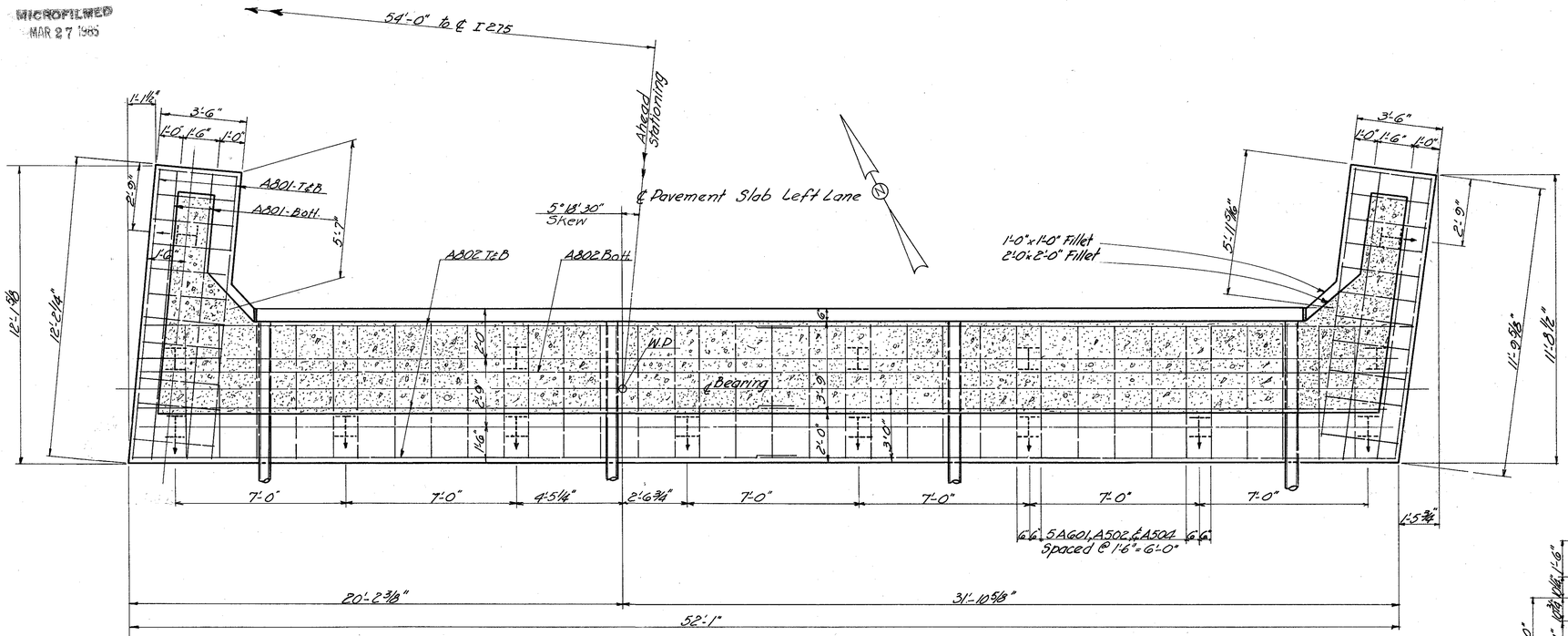
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R.K.	W.P.	F.W.	J.F.	R.K. 10-69	

MICROFILMED
MAR 27 1985

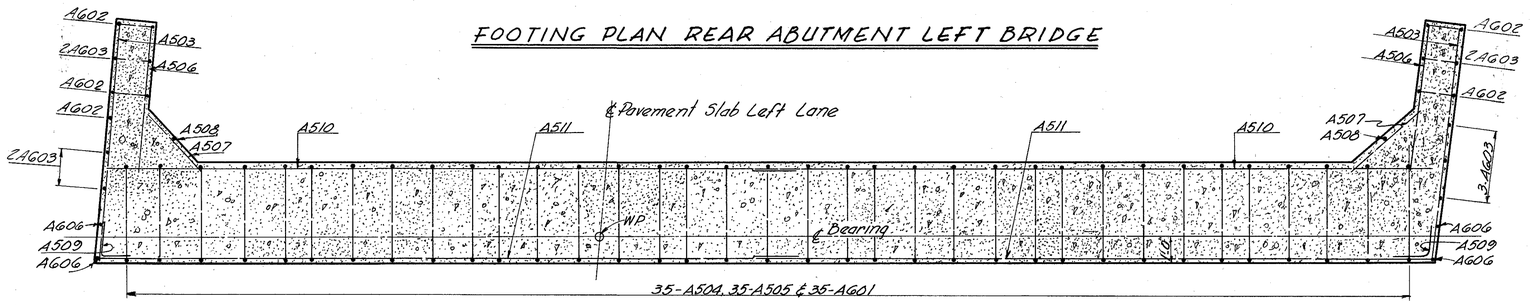
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

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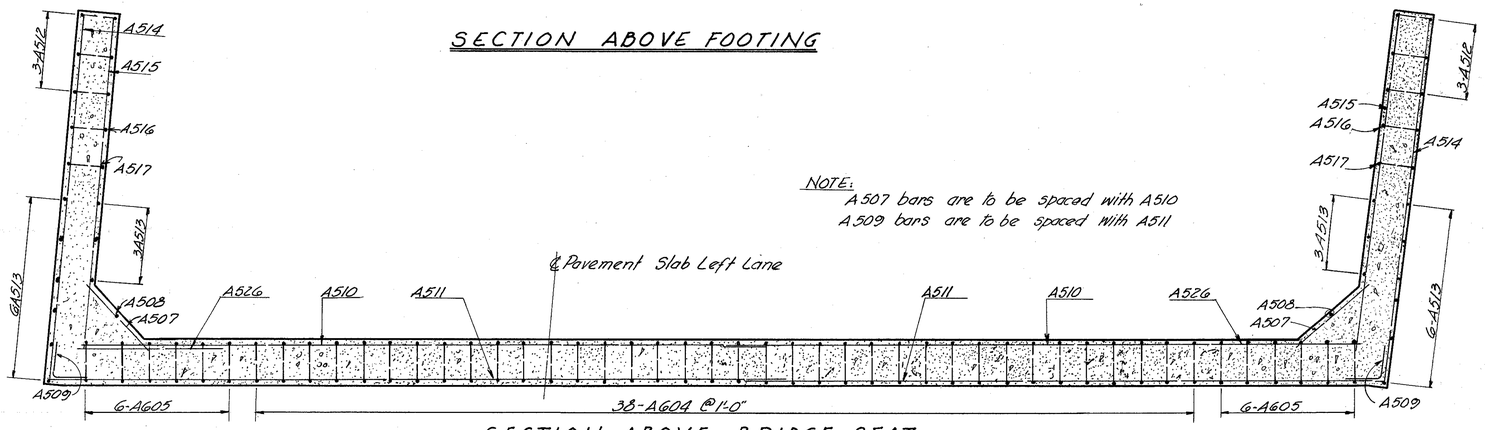
CLERMONT COUNTY
CLE-275-G.63



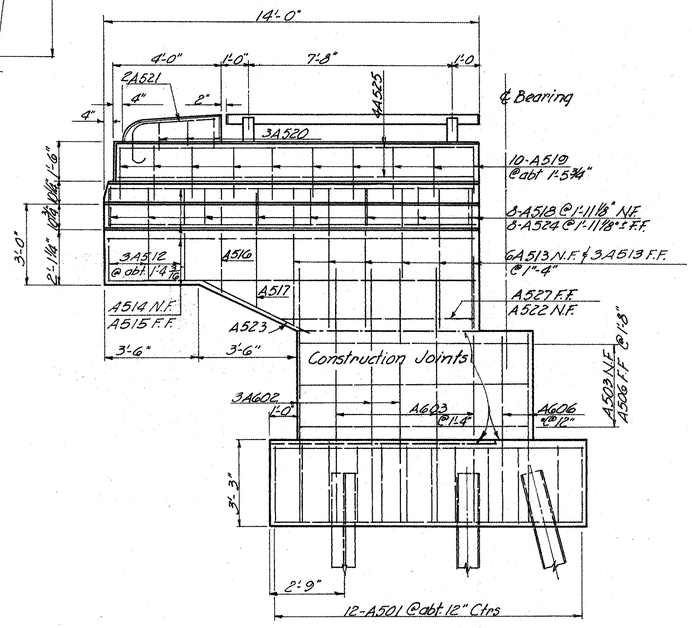
FOOTING PLAN REAR ABUTMENT LEFT BRIDGE



SECTION ABOVE FOOTING



SECTION ABOVE BRIDGE SEAT



WINGWALL ELEVATION

HARRY BALKE ENGINEERS 6/18
990 NASSAU STREET
CINCINNATI, OHIO 45206

ABUTMENT DETAILS

BRIDGE NO. CLE-275-1042 L&R.
I-275 OVER S.R.-32
CLERMONT CO. I-275
STA. 549+61.91 to STA. 551+97.93 L.B.
STA. 549+47.91 to STA. 551+97.93 R.B.

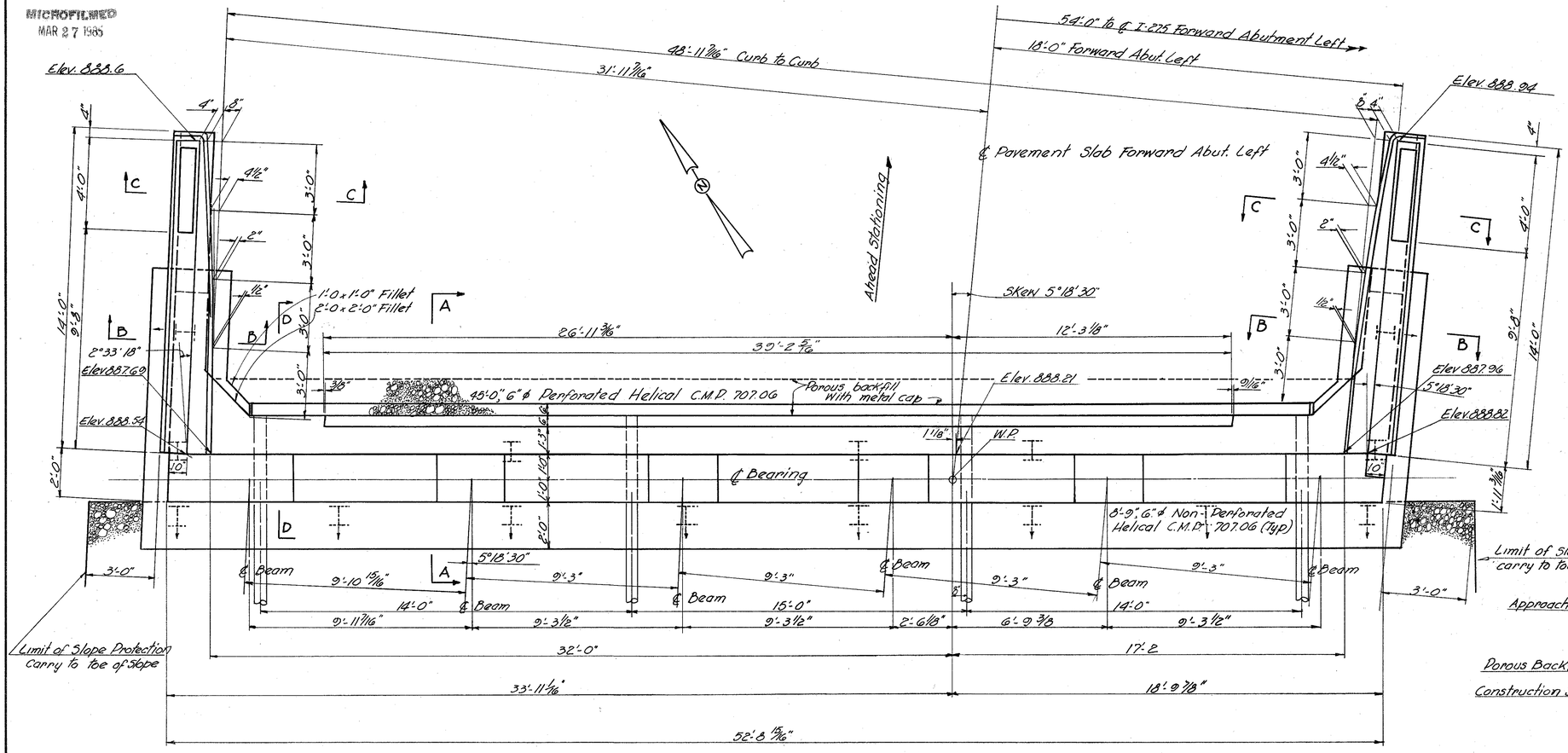
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
RK	WP S.I.B	AG	J.F	R.K. 10-69	

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MAR 27 1985

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

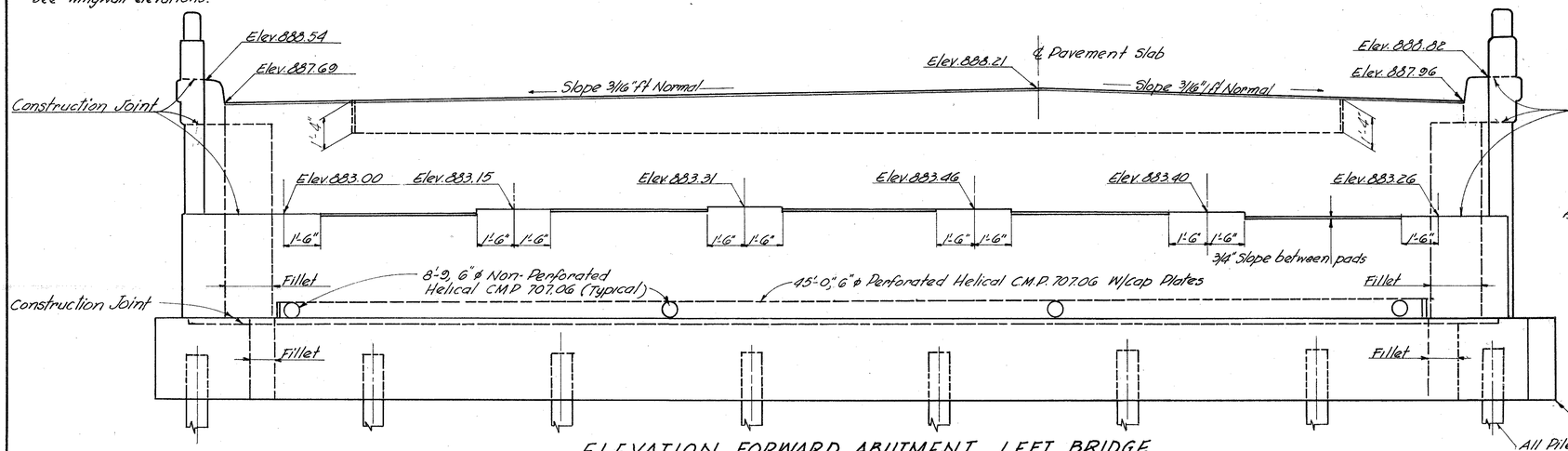
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CLERMONT COUNTY
CLE.275.668

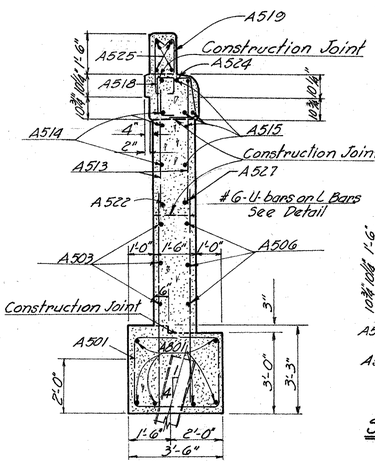


Note: For wingwall details See Wingwall elevations.

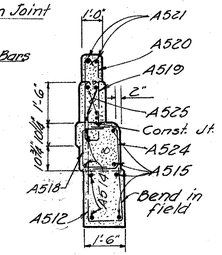
PLAN FORWARD ABUTMENT LEFT BRIDGE



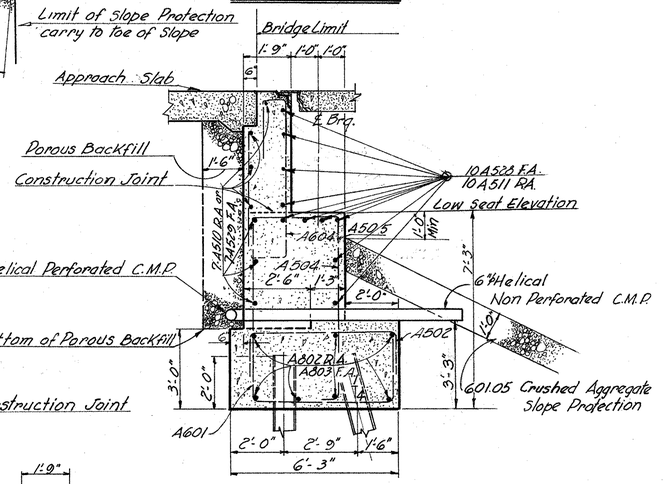
ELEVATION FORWARD ABUTMENT LEFT BRIDGE



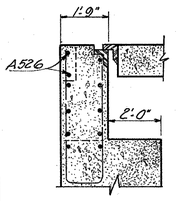
SECTION B-B



SECTION C-C



SECTION A-A



SECTION D-D

R.A. - Rear Abutment
F.A. - Forward Abutment

HARRY BALKE ENGINEERS 7/18
990 NASSAU STREET
CINCINNATI, OHIO 45206

ABUTMENT DETAILS

BRIDGE NO. CLE-275-1042 L.&R.
I-275 OVER S.R.-32
CLERMONT CO. I-275
STA.549+61.91 to STA.551+97.93 L.B.
STA.549+47.91 to STA.551+97.93 R.B.

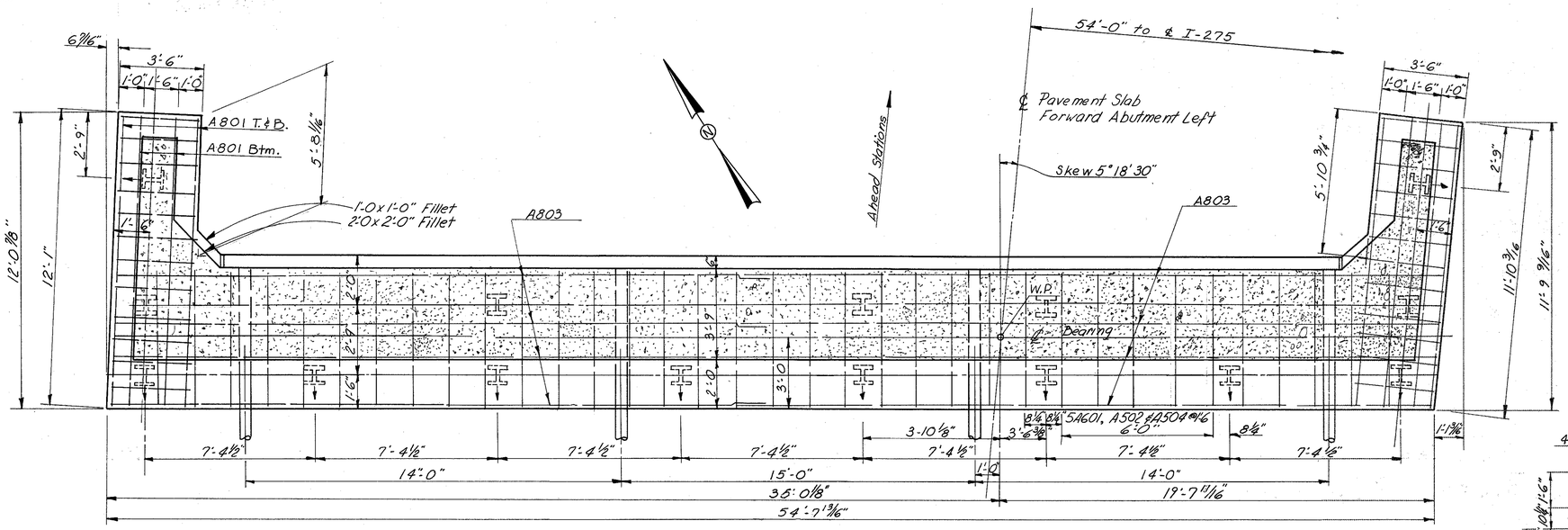
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SIB	SIB	AG	JSF	R.K. 10-69	

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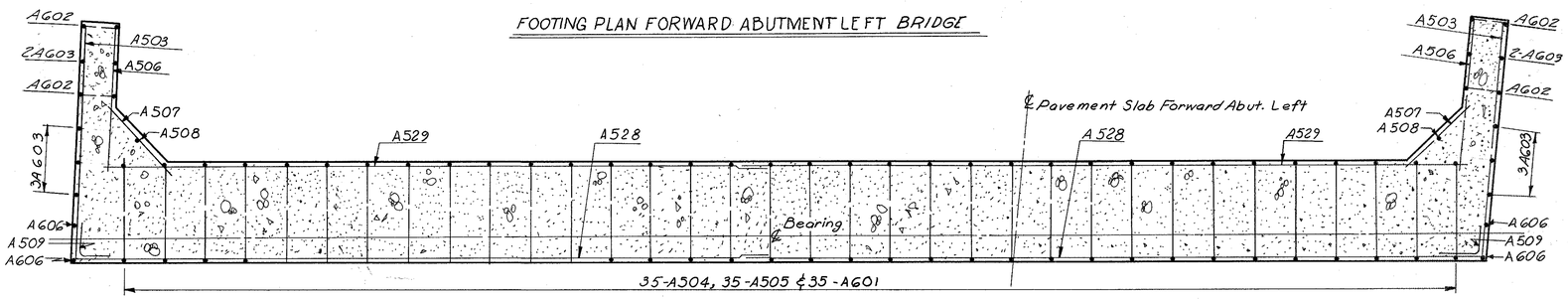
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

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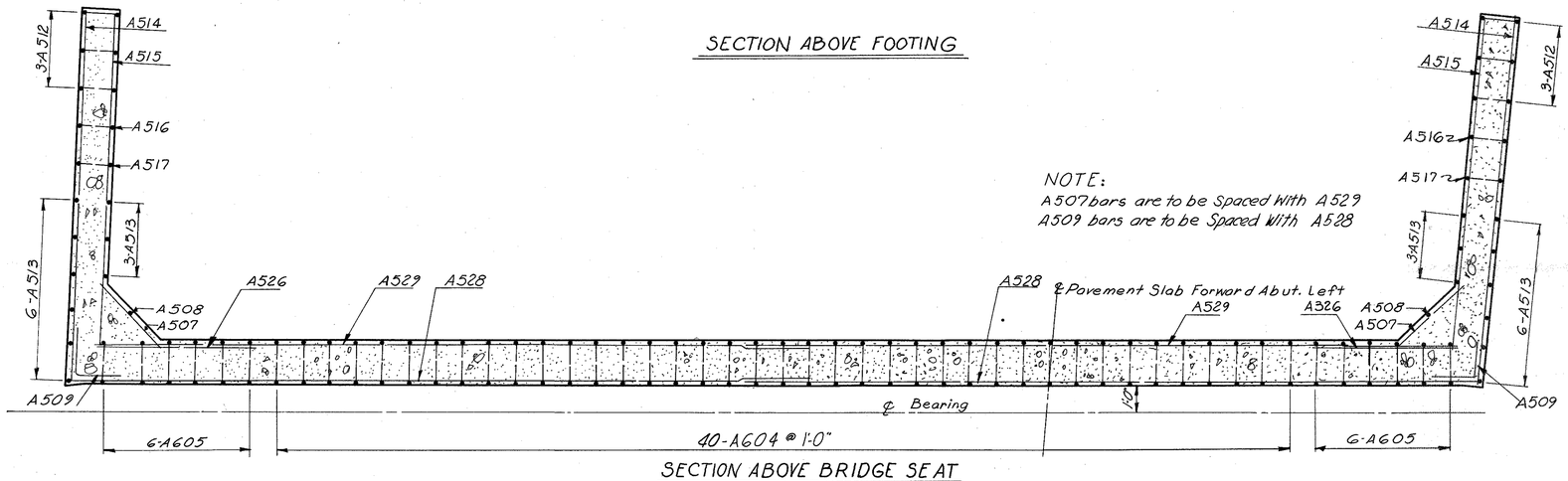
CLERMONT COUNTY
CLE-275-6.68



FOOTING PLAN FORWARD ABUTMENT LEFT BRIDGE

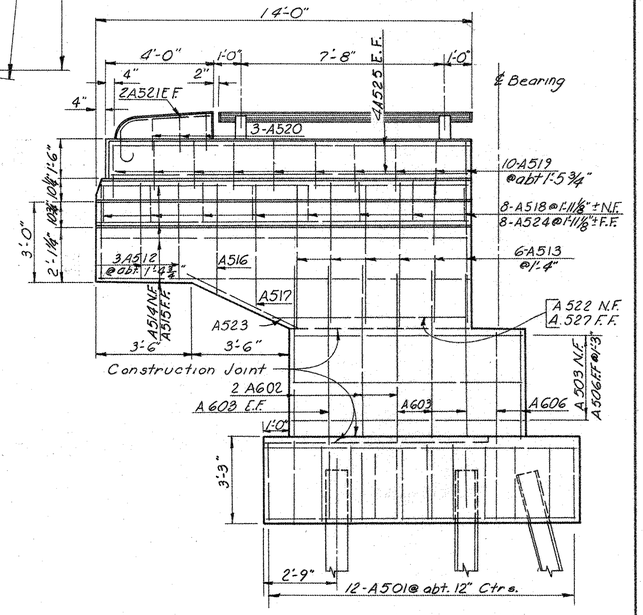


SECTION ABOVE FOOTING



NOTE:
A507 bars are to be Spaced With A529
A509 bars are to be Spaced With A528

SECTION ABOVE BRIDGE SEAT



TYPICAL WINGWALL ELEVATION

HARRY BALKE ENGINEERS
990 NASSAU STREET
CINCINNATI, OHIO 45206

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ABUTMENT DETAILS

BRIDGE NO. CLE-275-1042 L.&R.
I-275 OVER S.R.-32
CLERMONT CO. I-275
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STA. 549+47.91 to STA. 551+97.93 R.B.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
SIB	SIB	FW	JSF	R.K. 10-69	

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MAR 27 1969

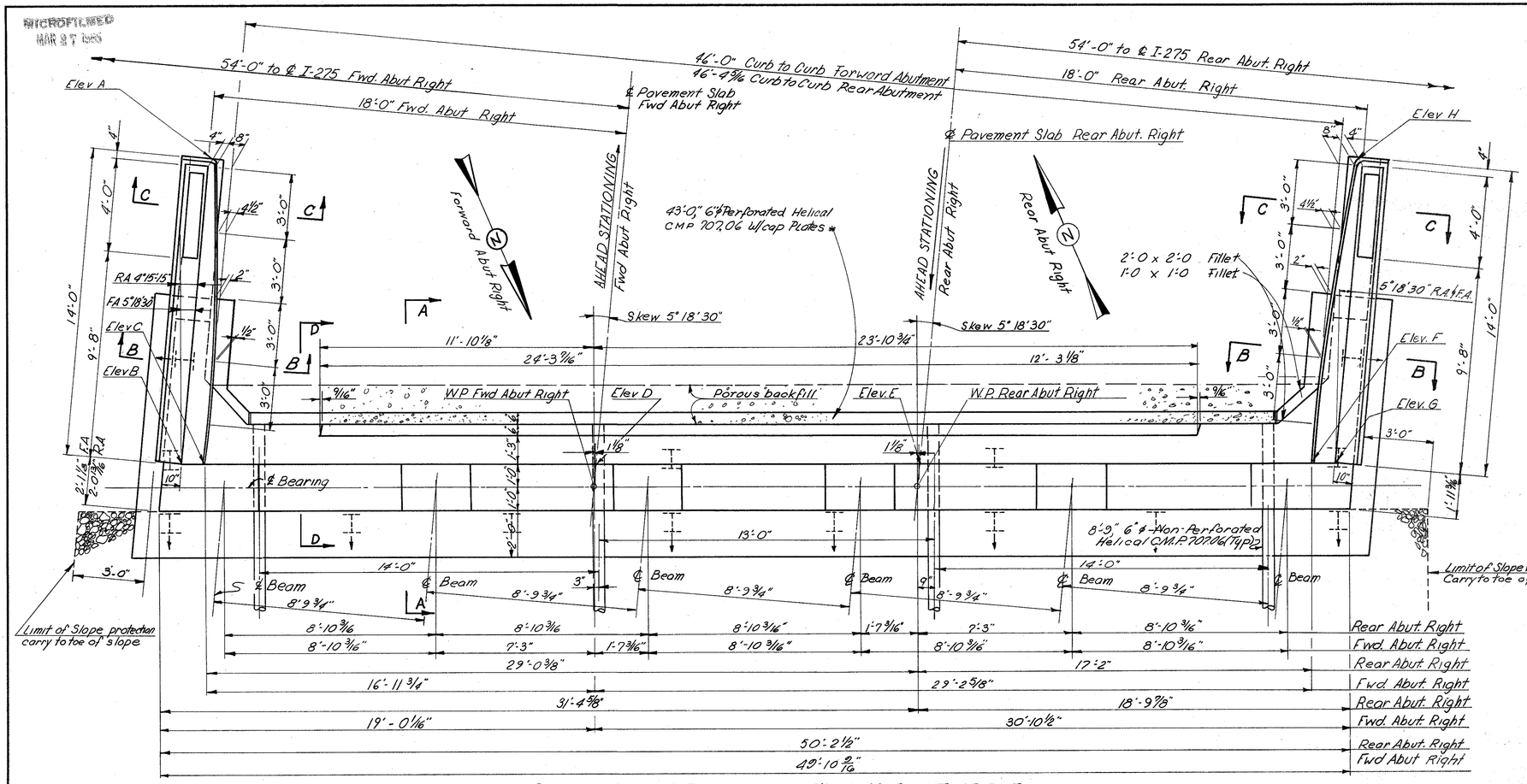
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2	OHIO		

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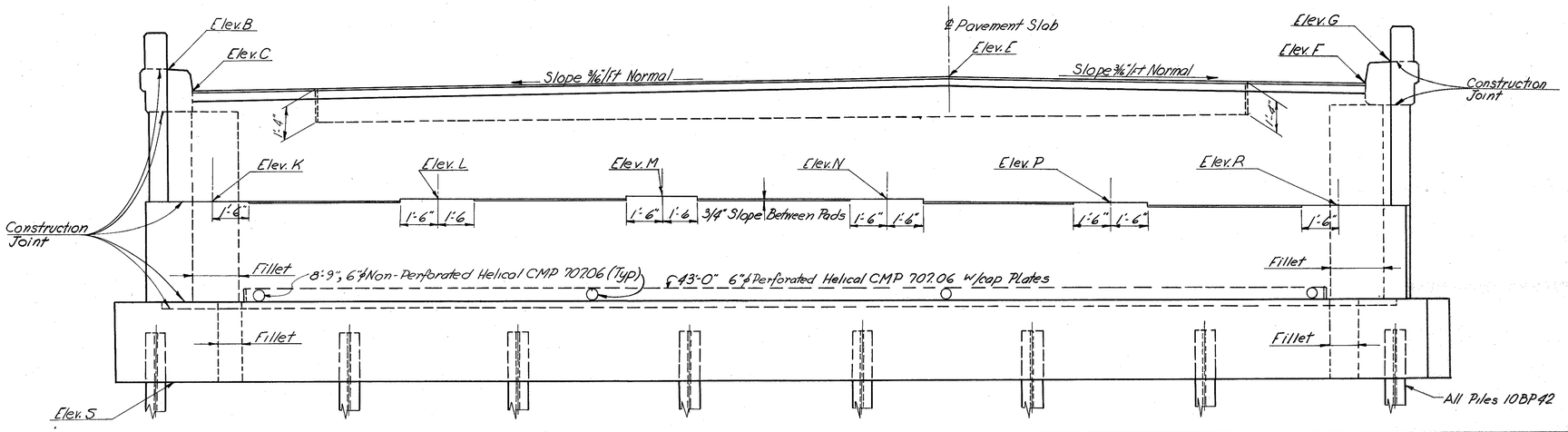
CLERMONT COUNTY
CLE-275-6.68

NOTES

1. Concrete above the bridge seat construction joint shall not be placed until after superstructure steel is placed.
2. Piles marked thus ↕ shall be battered 1:4 in the direction of the arrow.
3. All piles shall be 10BP42
4. For Sections AA and DD see Abutment Details Sheet 10/18
5. E.F. = Each face
   N.F. = Near face
   F.F. = Far face

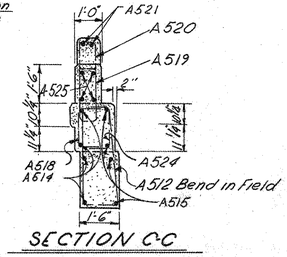


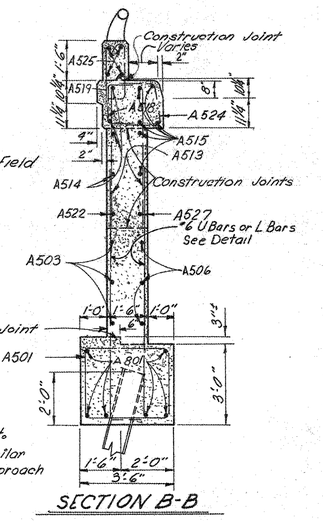
PLAN REAR AND FORWARD ABUTMENTS RIGHT BRIDGE



ELEVATION REAR ABUTMENT RIGHT BRIDGE

Abutment	Elev.A	Elev.B	Elev.C	Elev.D	Elev.E	Elev.F	Elev.G	Elev.H	Elev.K	Elev.L	Elev.M	Elev.N	Elev.P	Elev.R	Elev.S
Rear Right	886.13	886.28	885.42	———	885.85	885.57	886.42	886.27	880.94	881.07	881.20	881.33	881.22	881.09	873.69
Forward Right	889.00	888.88	888.02	888.30	— —	887.87	888.73	888.85	883.52	883.67	883.77	883.63	883.50	883.37	876.12





NOTE:
Elevation shown is of Rear Abutment.
Elevation of Forward Abutment is Similar except for location of crown and approach slab notch.

HARRY BALKE ENGINEERS
990 NASSAU STREET
CINCINNATI 6, OHIO

9/18

ABUTMENT DETAILS

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CLERMONT CO. I-275
STA.549+61.91 to STA.551+97.93 L.B.
STA.549+47.91 to STA.551+97.93 R.B.

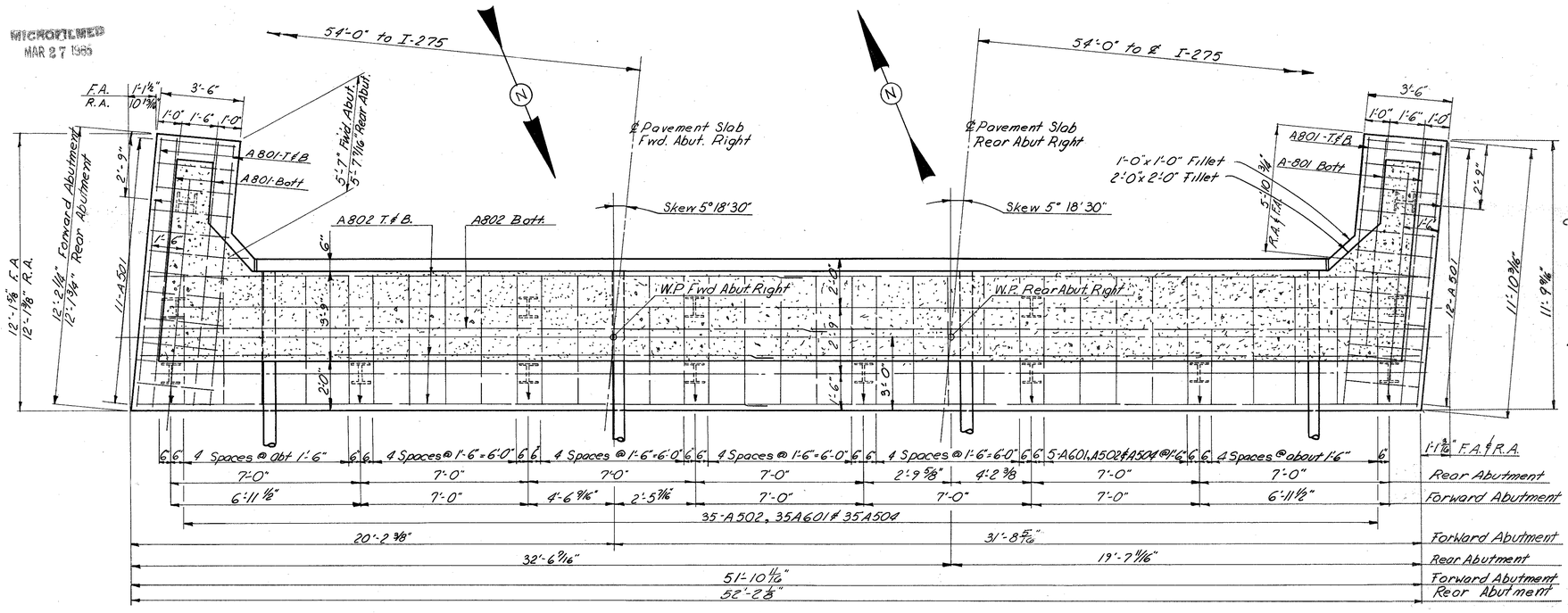
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
R.K	A.C.	F.W.	J.S.F.	R.K. 10-69	

MICROFILMED
MAR 27 1985

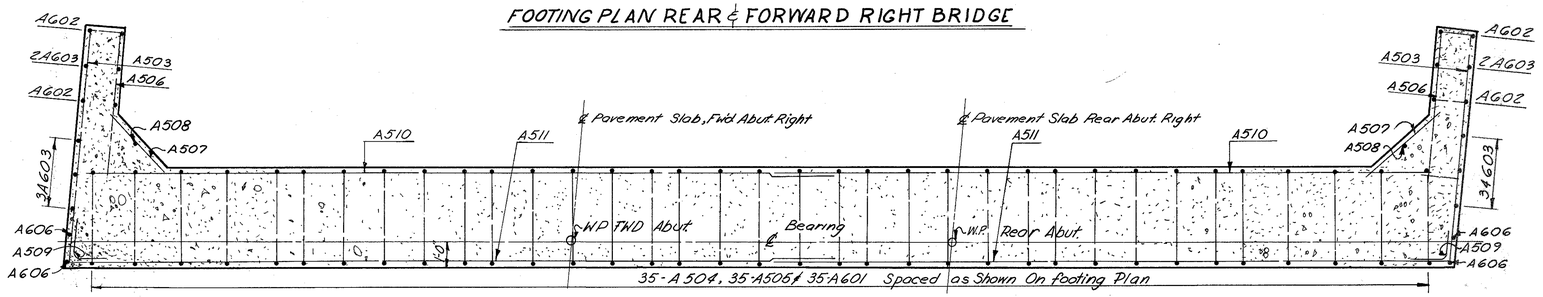
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

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698

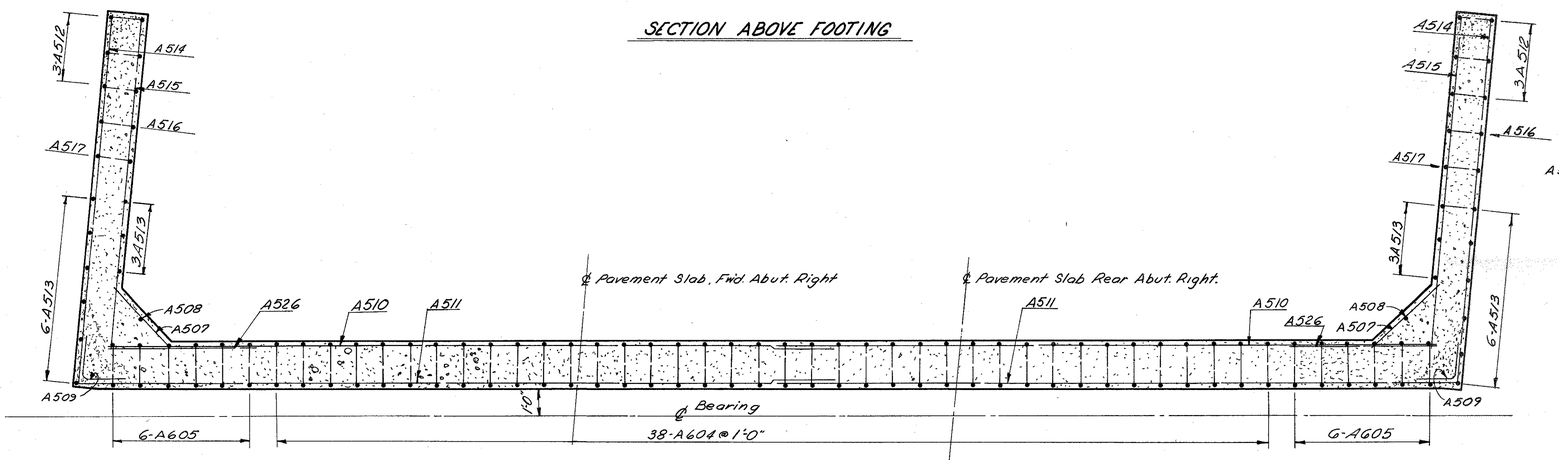
CLERMONT COUNTY
CLE.-275-6.68



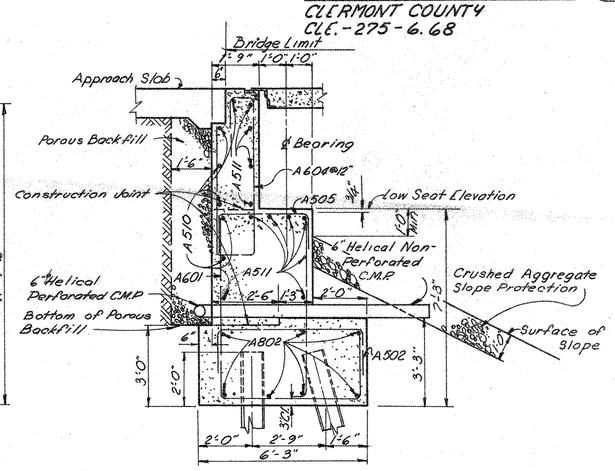
FOOTING PLAN REAR & FORWARD RIGHT BRIDGE



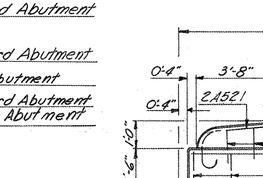
SECTION ABOVE FOOTING



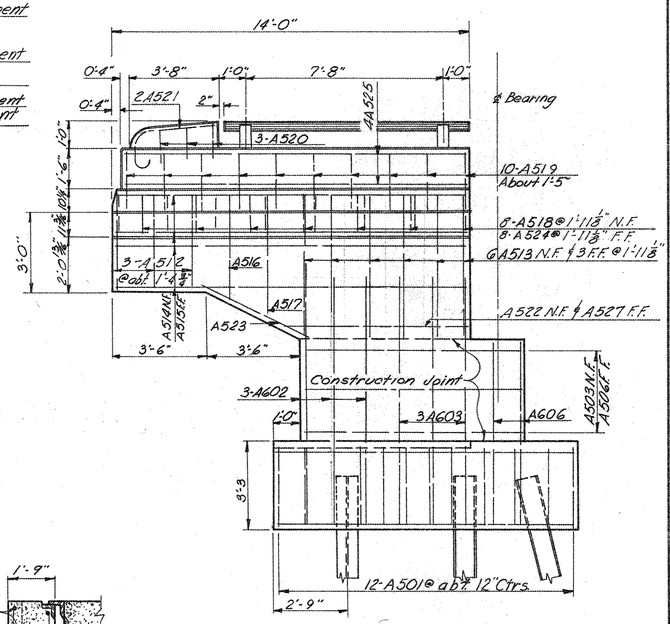
SECTION ABOVE BRIDGE SEAT



SECTION A-A



SECTION D-D



WINGWALL ELEVATION

N.F. = Near Face R.A. = Rear Abut.
F.F. = Far Face F.A. = Forward Abut.

HARRY BALKE ENGINEERS
990 NASSAU STREET
CINCINNATI, OHIO 45206

10/18

ABUTMENT DETAILS

BRIDGE NO. CLE-275-1042 L&R.
I-275 OVER S.R.-32
CLERMONT CO. I-275
STA. 549+61.91 to STA. 551+97.93 L.B.
STA. 549+47.91 to STA. 551+97.93 R.B.

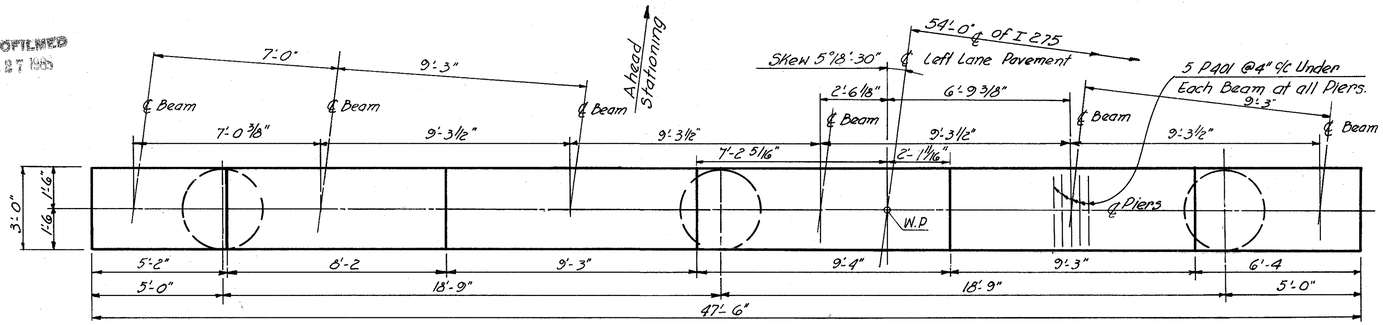
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
R.K.	W.P.	FW	JSF	R.K. 10-69	

MICROFILMED
MAR 2 7 1985

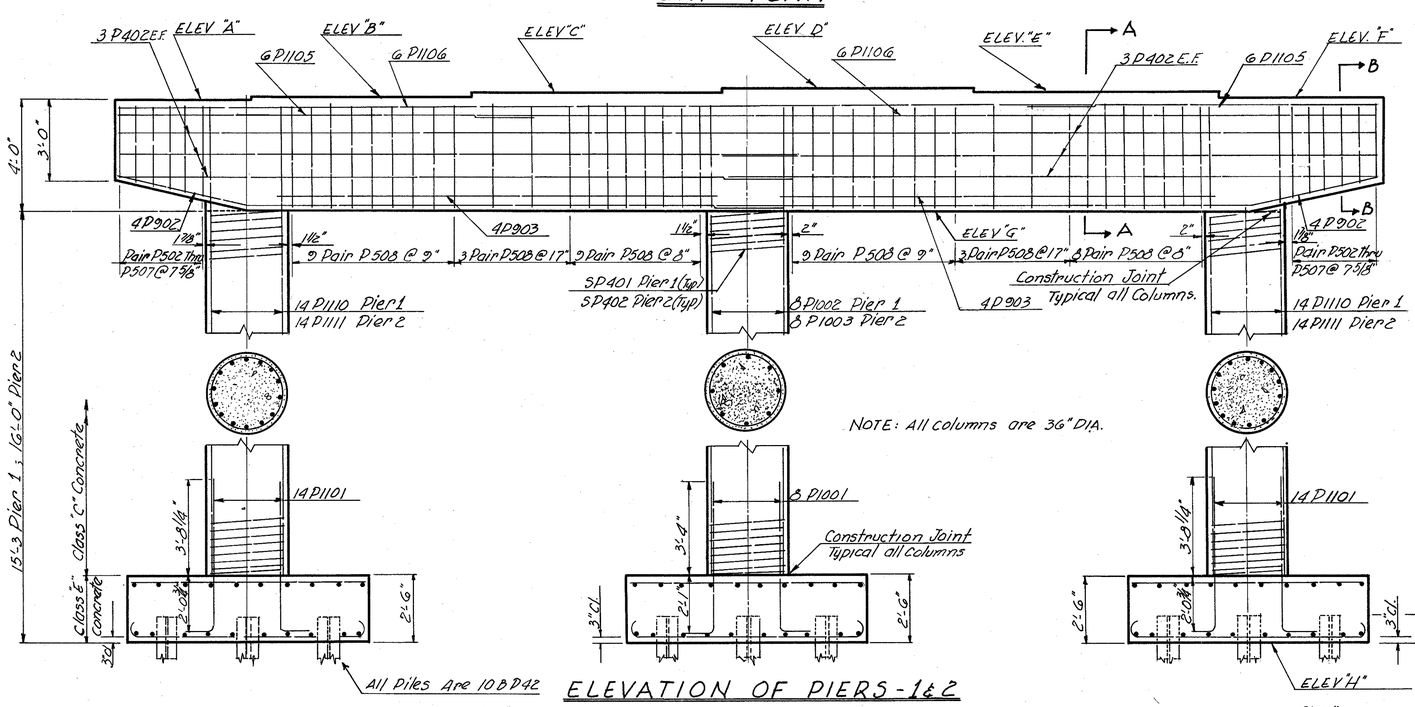
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

583
638

CLERMONT COUNTY
CLE-275-G.68

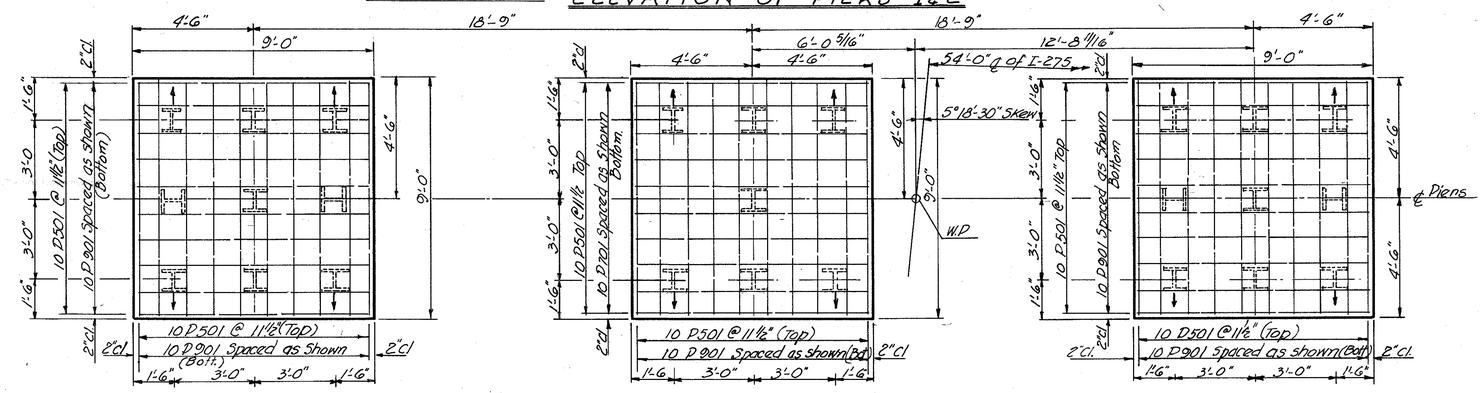


CAP PLAN

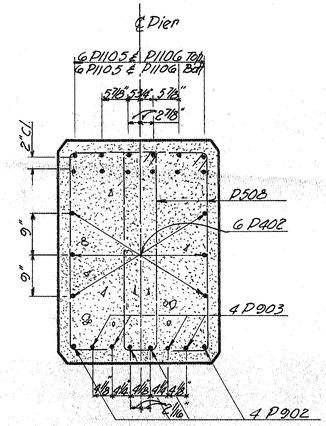


NOTE: All columns are 36" DIA.

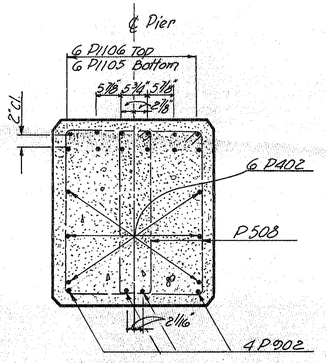
ELEVATION OF PIERS - 1 & 2



FOOTING PLAN PIERS 1 & 2 LEFT BRIDGE

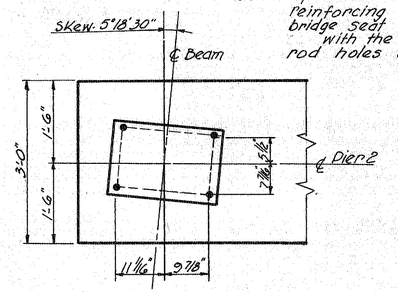


SECTION "A-A"



SECTION B-B

NOTE: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of the anchor rod holes at Pier 2.



ANCHOR ROD LOCATION
PIER 2 ONLY

	ELEV "A"	ELE "B"	ELEV "C"	ELEV "D"	ELEV "E"	ELEV. F	ELEV. G	ELEV "H"
PIER 1	880.71	880.83	880.98	881.13	881.08	880.94	876.71	861.46
PIER 2	881.36	881.47	881.63	881.78	881.72	881.59	877.36	861.36

NOTE: Piles marked thus I shall be battered 1:4 in the direction of the arrow.

HARRY BALKE ENGINEERS 11/18
990 NASSAU STREET
CINCINNATI, OHIO 45206

L.B. PIER DETAILS

BRIDGE NO. CLE-275-1042 L&R.
I-275 OVER S.R.-32
CLERMONT CO. I-275
STA. 549+61.91 to STA. 551+97.93 L.B.
STA. 549+47.91 to STA. 551+97.93 R.B.

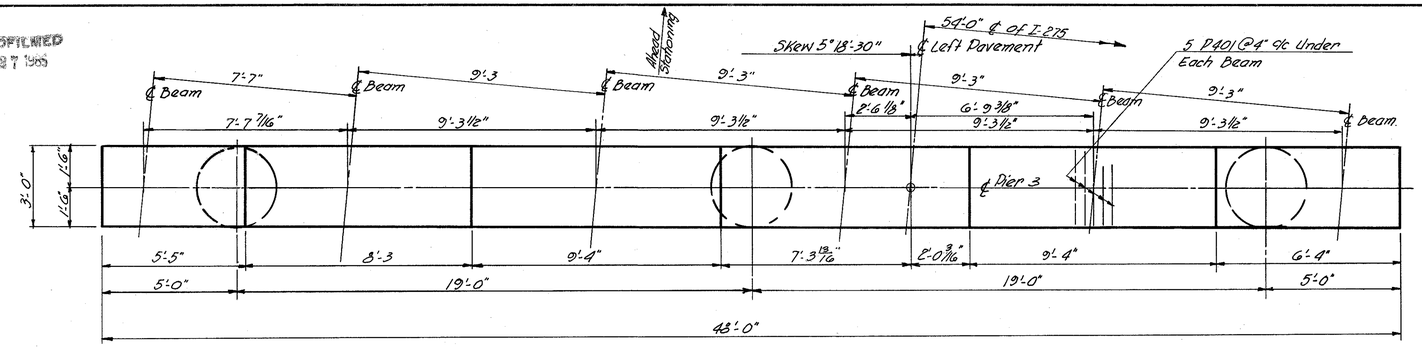
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
DS	AG	AG	JSF	R.K. 10-69	

MICROFILMED
MAR 27 1985

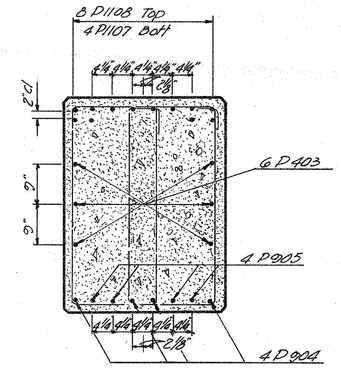
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

584
638

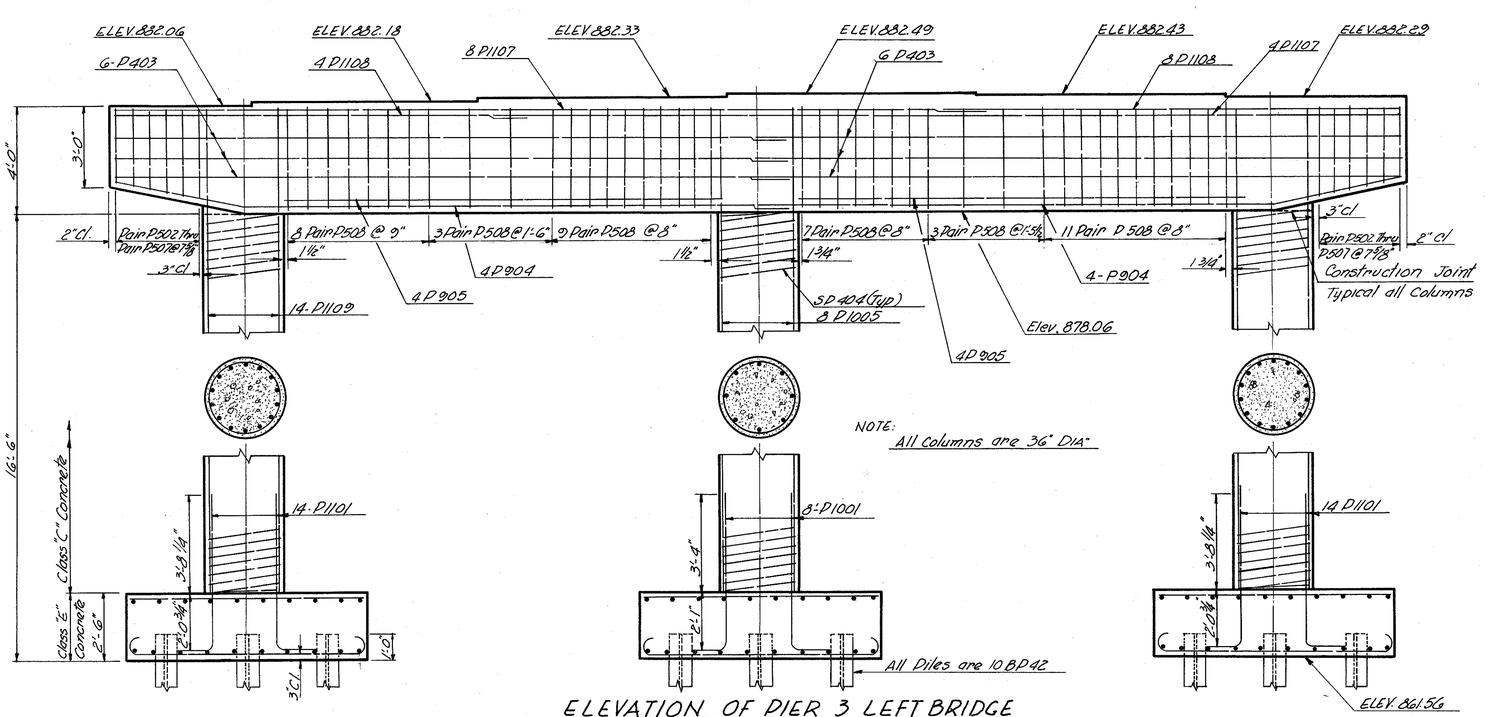
CLERMONT COUNTY
CLE-275-6.68



CAP PLAN

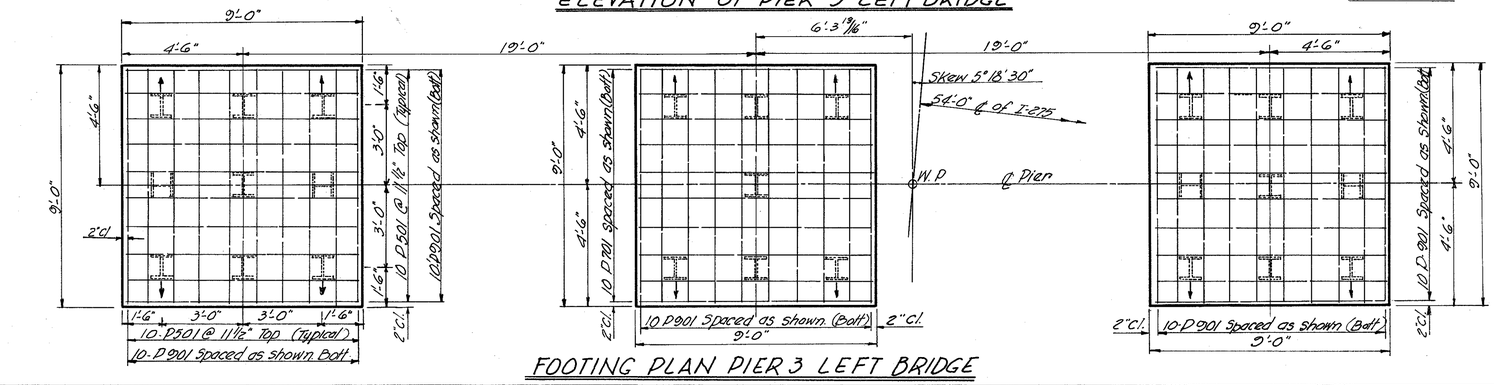


SECTION A-A



NOTE: All columns are 36" DIA.

ELEVATION OF PIER 3 LEFT BRIDGE



FOOTING PLAN PIER 3 LEFT BRIDGE

NOTE: Piles marcked thus ⊥ shall be battered 1:4 in the direction of the arrow.

HARRY BALKE ENGINEERS 12/18
990 NASSAU STREET
CINCINNATI, OHIO 45206

L.B. PIER DETAILS

BRIDGE NO. CLE.-275-1042 L.&R.
I-275 OVER S.R.-32
CLERMONT CO. I-275
STA.549+61.91 to STA.551+97.93 L.B.
STA.549+47.91 to STA.551+97.93 R.B.

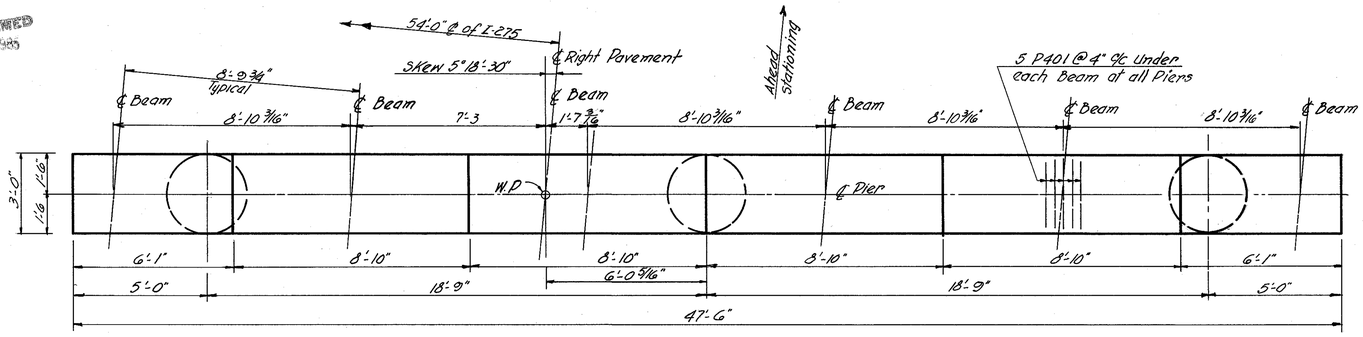
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
DS	WP	AB	JSF	R.K. 10-69	

MICROFICHED
MAR 27 1985

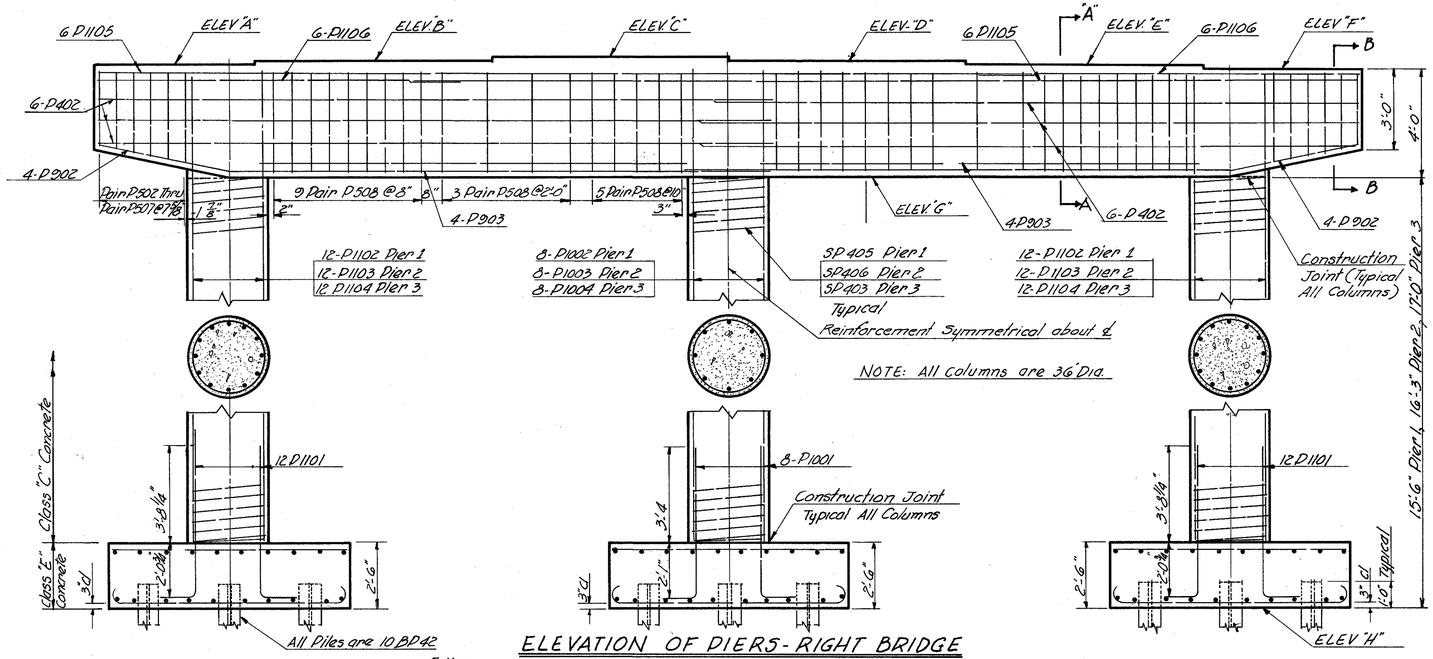
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

585
638

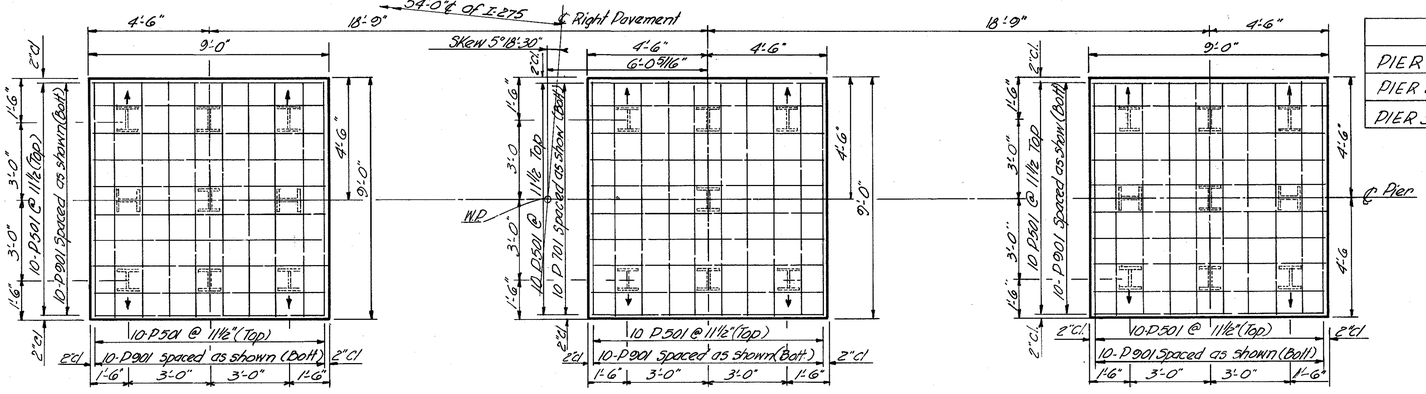
CLERMONT COUNTY
CLE-275-6.68



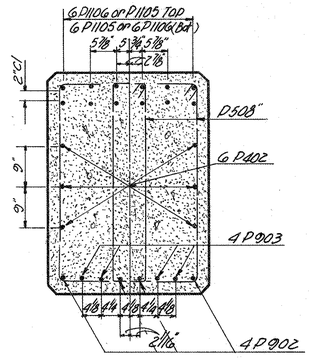
CAP PLAN



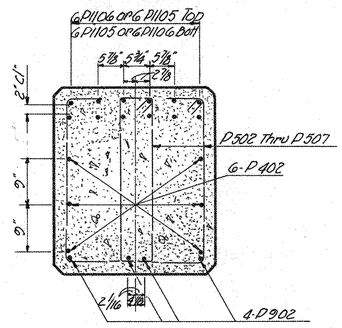
ELEVATION OF PIERS - RIGHT BRIDGE



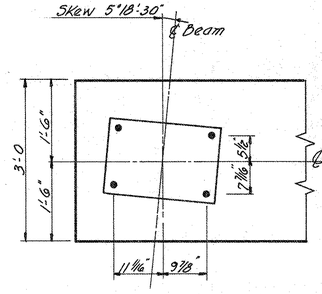
FOOTING PLAN PIERS 1, 2 & 3 RIGHT BRIDGE



SECTION "A-A"



SECTION B-B



ANCHOR ROD LOCATION
PIER 2 ONLY

NOTE:
Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of the anchor rod holes at Pier 2.

	ELEV. "A"	ELEV. "B"	ELEV. "C"	ELEV. "D"	ELEV. "E"	ELEV. "F"	ELEV. "G"	ELEV. "H"
PIER 1	881.12	881.26	881.36	881.23	881.10	880.97	876.97	861.47
PIER 2	881.89	882.03	882.13	882.00	881.87	881.74	877.74	861.49
PIER 3	882.54	882.69	882.79	882.66	882.53	882.40	878.40	861.40

NOTE: Pile marked thus I shall be battered 1:4 in the direction of the arrow

HARRY BALKE ENGINEERS
990 NASSAU STREET
CINCINNATI, OHIO 45206

13/18

R.B. PIER DETAILS

BRIDGE NO. CLE-275-1042 L.&R.
I-275 OVER S.R.-32
CLERMONT CO. I-275
STA. 549+61.91 to STA. 551+97.93 L.B.
STA. 549+47.91 to STA. 551+97.93 R.B.

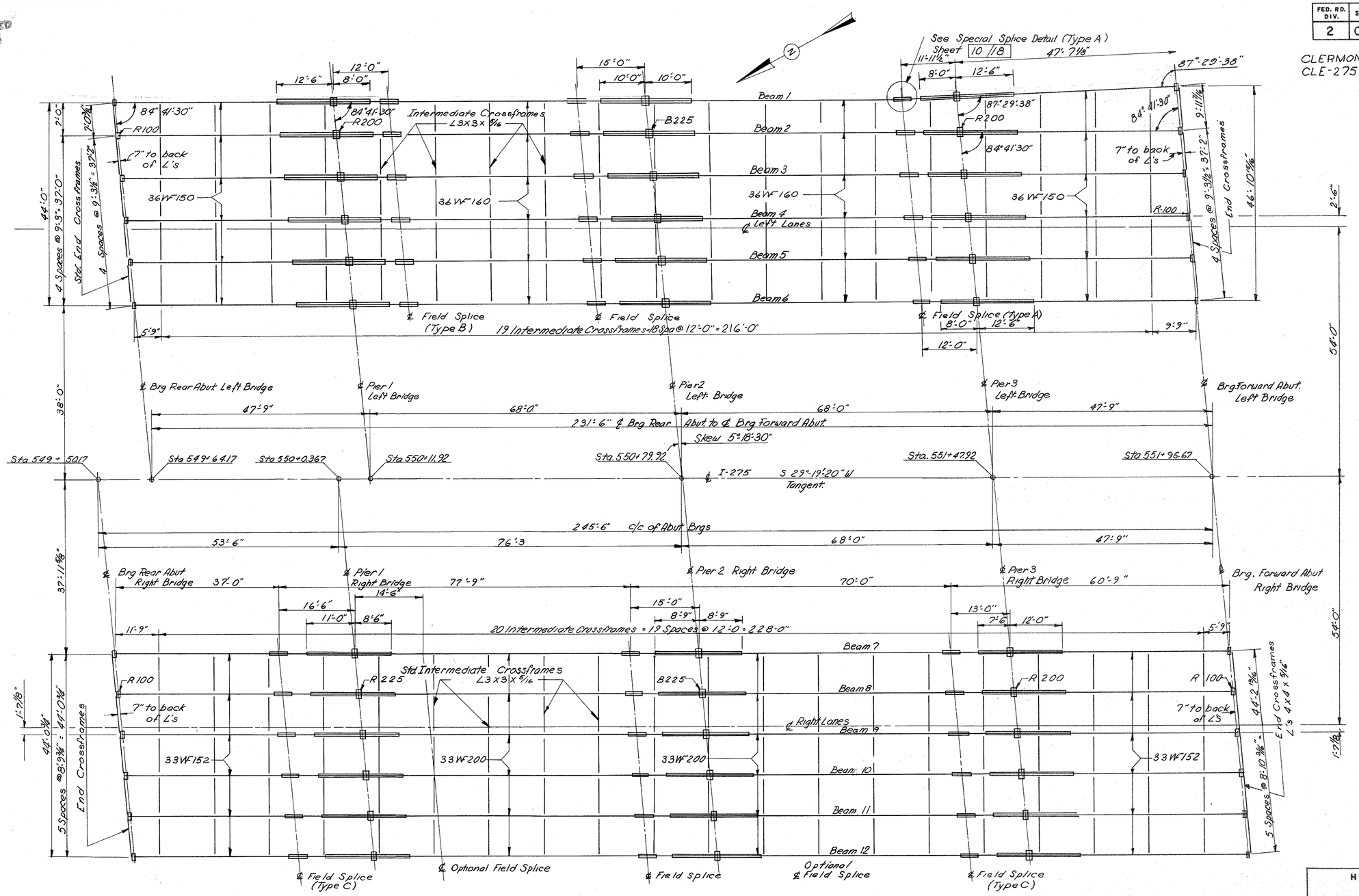
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
DS	TR	AG	JSF	R.K. 10-69	

MICROFILMED
MAR 8 7 1985

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

586/638

CLERMONT COUNTY
CLE-275-6.68



FRAMING PLAN

HARRY BALKE ENGINEERS 14/18
990 NASSAU STREET
CINCINNATI, OHIO 45206

FRAMING PLAN

BRIDGE NO. CLE-275-1042 L.&R.
I-275 OVER S.R.-32
CLERMONT CO. I-275
STA. 549+61.91 to STA. 551+97.93 L.B.
STA. 549+47.91 to STA. 551+97.93 R.B.

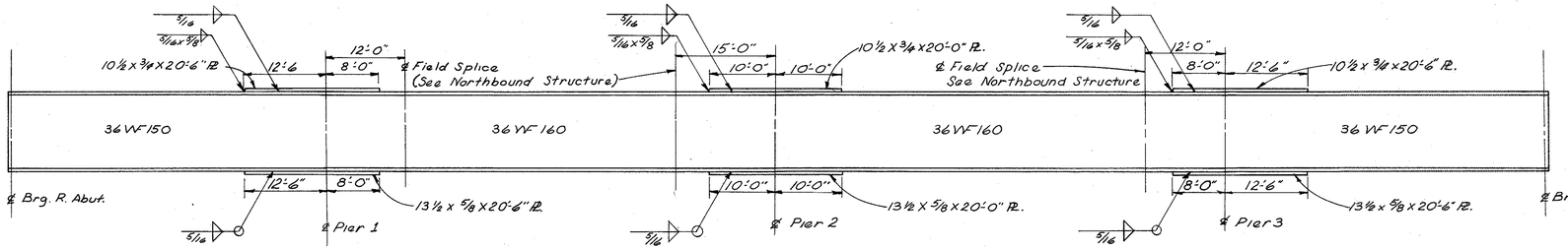
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
RK	TR	AV	JSF	R.K. 10-69	

MICROFILMED MAR 8-7 1995

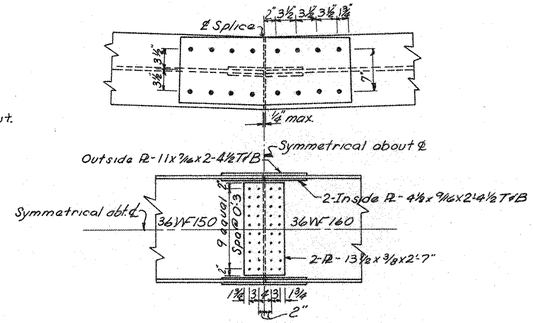
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

587
638

CLERMONT COUNTY
CLE-275-6.68



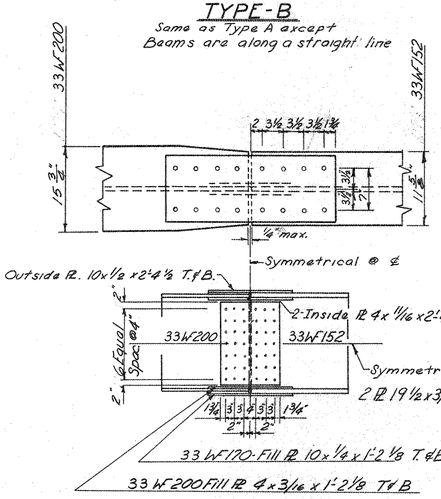
ELEVATION - TYPICAL LEFT BRIDGE BEAM



TYPE-A

TYPE-B

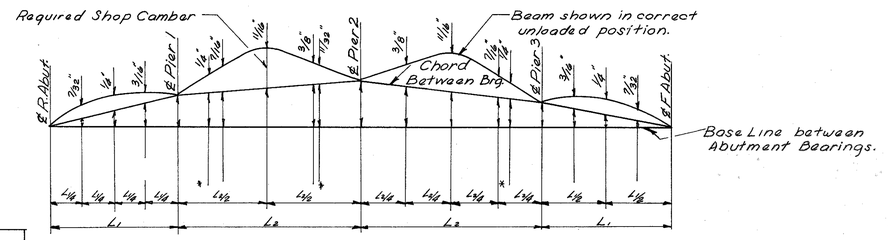
Same as Type A except Beams are along a straight line



TYPE-C

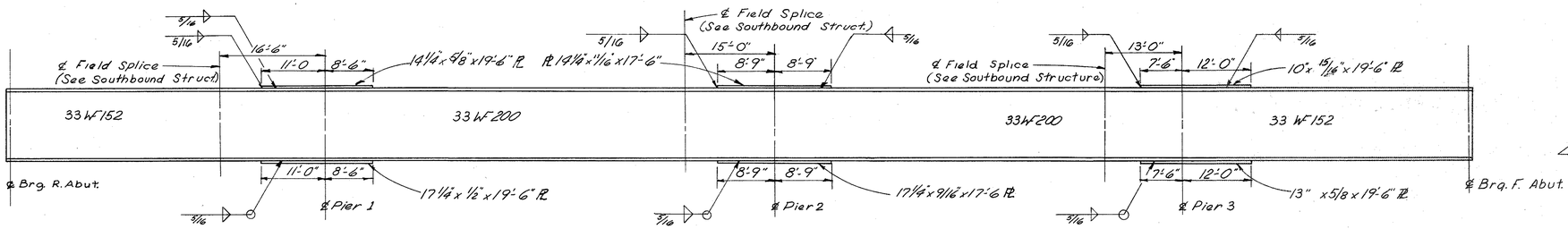
DEFLECTION & CAMBER

LOCATION	Span 1			Span 2					Span 3					Span 4		
	¼ Pt.	½ Pt.	¾ Pt.	Sp. Pt.	¼ Pt.	½ Pt.	¾ Pt.	Sp. Pt.	¼ Pt.	½ Pt.	¾ Pt.	Sp. Pt.	¼ Pt.	½ Pt.	¾ Pt.
Defl. due to wgt of stl.	1/32	1/32	0	1/32	1/16	3/32	1/16	1/16	1/16	3/32	1/16	1/32	0	1/32	1/32
Defl. due to remaining DL	5/32	3/16	5/32	3/16	11/32	17/32	9/32	1/4	3/32	17/32	11/32	3/16	5/32	3/16	5/32
Camber for Vert. Curve	1/32	1/32	1/32	1/32	1/32	1/16	1/32	1/32	1/32	1/16	1/32	1/32	1/32	1/32	1/32
Total Defl. & Camber	7/32	1/8	3/16	1/8	7/16	11/16	3/8	11/32	3/8	1/16	7/16	1/4	3/16	1/8	7/32



DISTANCE BETWEEN CHORD & BASE LINE

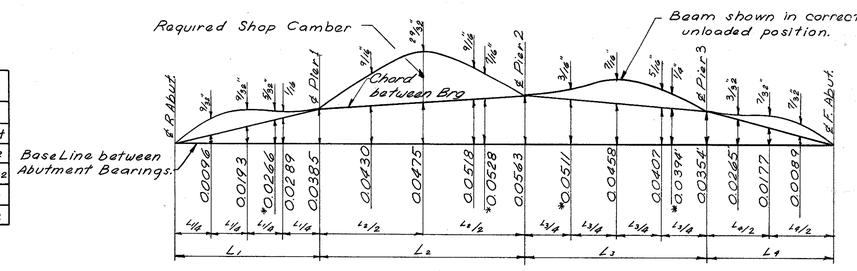
LOCATION	R.A.	SPAN 1			Pier 1	SPAN 2				Pier 2	SPAN 3				Pier 3	SPAN 4			E.A.
		¼ Pt.	½ Pt.	¾ Pt.		Sp. Pt.	¼ Pt.	½ Pt.	¾ Pt.	Sp. Pt.		¼ Pt.	½ Pt.	¾ Pt.	Sp. Pt.		¼ Pt.	½ Pt.	¾ Pt.	
BEAM 1	0	.0101	.0202	.0303	.0413	.0452	.0479	.0543	.0612	.0620	.0682	.0644	.0607	.0571	.0559	.0535	.0400	.0267	.0133	0
BEAMS 2 - 6	0	.0083	.0165	.0248	.0330	.0361	.0373	.0417	.0459	.0465	.0522	.0459	.0416	.0373	.0359	.0329	.0247	.0165	.0082	0



ELEVATION - TYPICAL RIGHT BRIDGE BEAM

DEFLECTION & CAMBER

LOCATION	Span 1				Span 2				Span 3				Span 4		
	⅛ Pt.	½ Pt.	Sp. Pt.	¾ Pt.	¼ Pt.	½ Pt.	¾ Pt.	Sp. Pt.	Sp. Pt.	½ Pt.	¾ Pt.	Sp. Pt.	¼ Pt.	½ Pt.	¾ Pt.
Defl. due to wgt of stl.	1/32	1/32	1/32	0	3/32	5/32	3/32	1/16	1/32	1/16	1/16	1/32	0	1/32	1/32
Defl. due to remaining DL	7/32	7/32	3/32	1/32	13/32	11/16	13/32	5/16	1/8	5/16	7/32	3/16	1/16	5/32	5/32
Camber for Vert. Curve	1/32	1/32	1/32	1/32	1/16	1/16	1/16	1/16	1/32	1/16	1/32	1/32	1/32	1/32	1/32
Total Defl. & Camber	9/32	9/32	5/32	1/16	9/16	23/32	9/16	7/16	3/16	7/16	5/16	1/4	3/32	7/32	7/32



RIGHT BRIDGE BEAMS LAYOUT DIAGRAM

NOTE:
* Designates Splice Point
L Designates Span of Beam

HARRY BALKE ENGINEERS 15/18
990 NASSAU STREET
CINCINNATI, OHIO 45206

BEAM DETAILS

BRIDGE NO. CLE-275-1042 L.&R.
I-275 OVER S.R.-32
CLERMONT CO. I-275
STA. 549+61.91 to STA. 551+97.93 L.B.
STA. 549+47.91 to STA. 551+97.93 R.B.

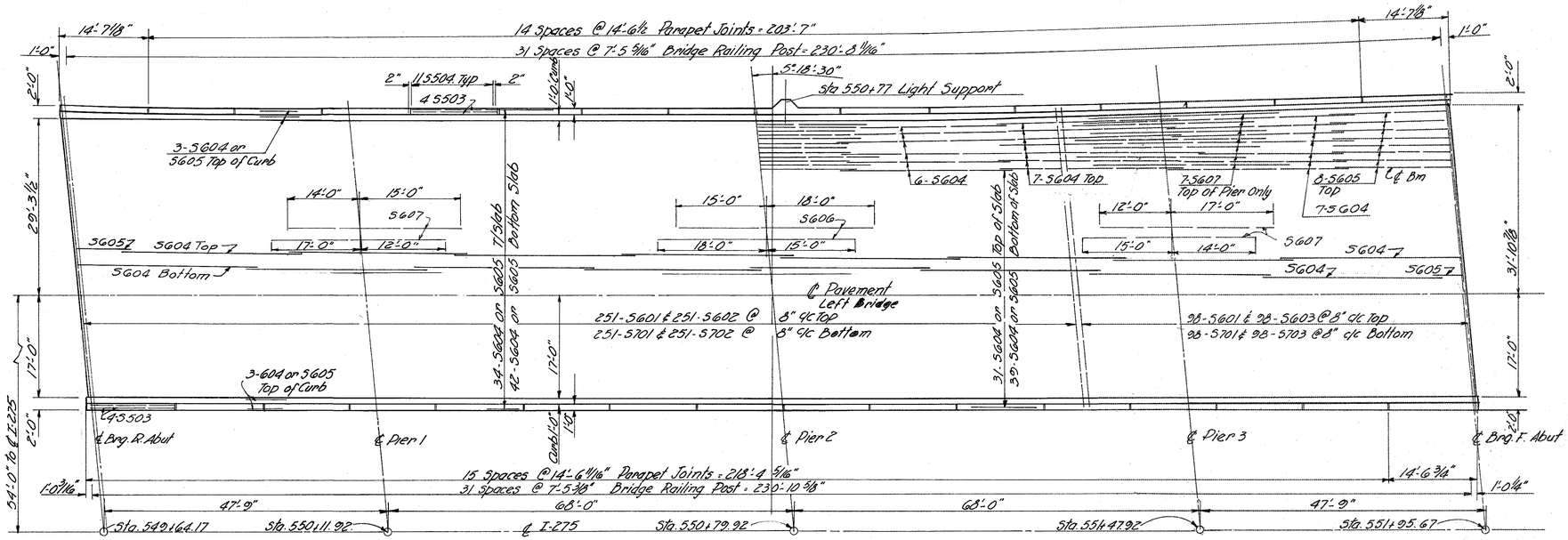
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
RK	TR	JW	JSF	R.K. 10-69	

MICROFILMED
MAR 27 1969

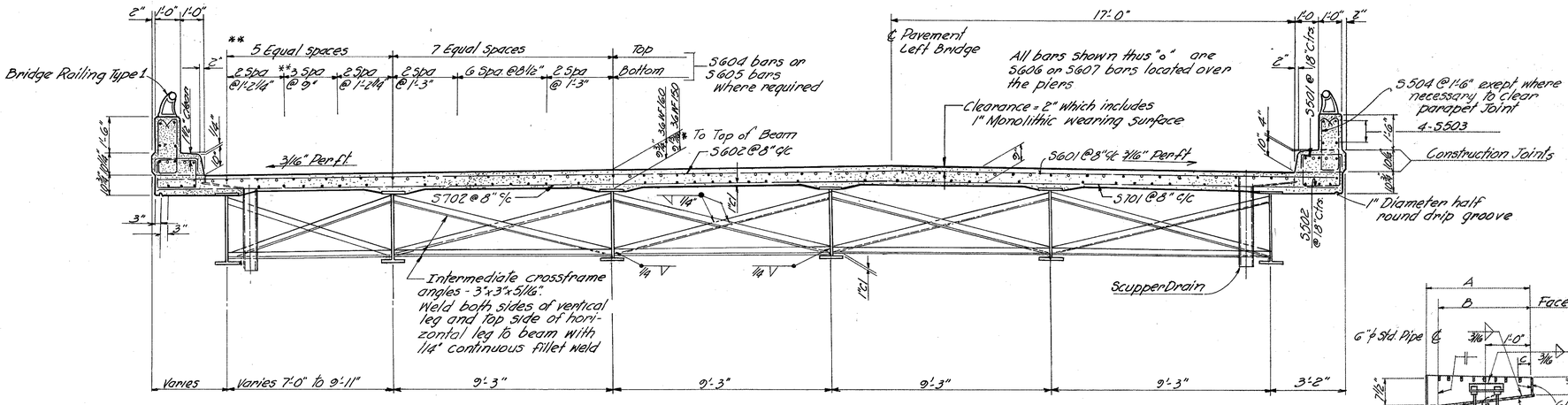
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

588
638

CLERMONT COUNTY
CLE 275-668



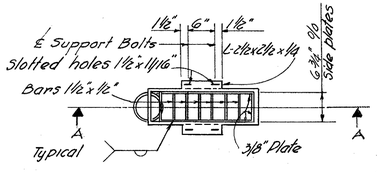
PLAN-LEFT BRIDGE



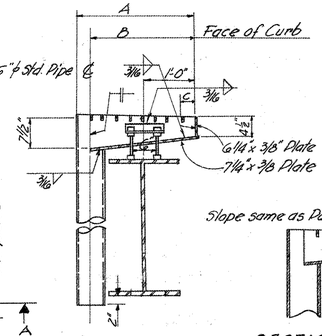
TYPICAL SECTION-LEFT BRIDGE

** Top:
6 equal spaces over ℄ Pier 3.
7 equal spaces over ℄ Brg F. Abut.
Bottom
4 Spa. @ 9" - over ℄ Pier 3.
5 Spa. @ 9" - over ℄ Brg F. Abut.

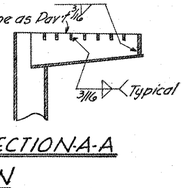
SCUPPER TYPE	A	B	C
TYPE A	2'-6 5/16"	9@3"	3"
TYPE B	2'-3 5/16"	8@3"	3"



SCUPPER PLAN



SCUPPER ELEVATION



SECTION A-A

NOTES
1. All scuppers shall be as modified on this sheet and similar to a Type 1 or 2 scupper.
2. A typical haunch width of 9" shall be used for computing quantity of concrete. However the haunch width may vary between 6" and 12" provided that the slope shall be not more than 1:4 for a haunch less than 9" in width
3. * Indicates the nominal dimension. The quantity of deck concrete to be paid for shall be based upon this dimension, even though deviation from it may be necessary because the top flange of the girder may not have the exact camber or confirmation required to place it parallel to the finished grade. Deduction shall be made for volume of encased steel plates as per 511.19 of the Construction and Material Specifications.

HARRY BALKE ENGINEERS 16/18
990 NASSAU STREET
CINCINNATI, OHIO 45206

SUPERSTRUCTURE DETAILS

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I-275 OVER S.R.-32
CLERMONT CO. I-275
STA. 549+61.91 to STA. 551+97.93 L.B.
STA. 549+47.91 to STA. 551+97.93 R.B.

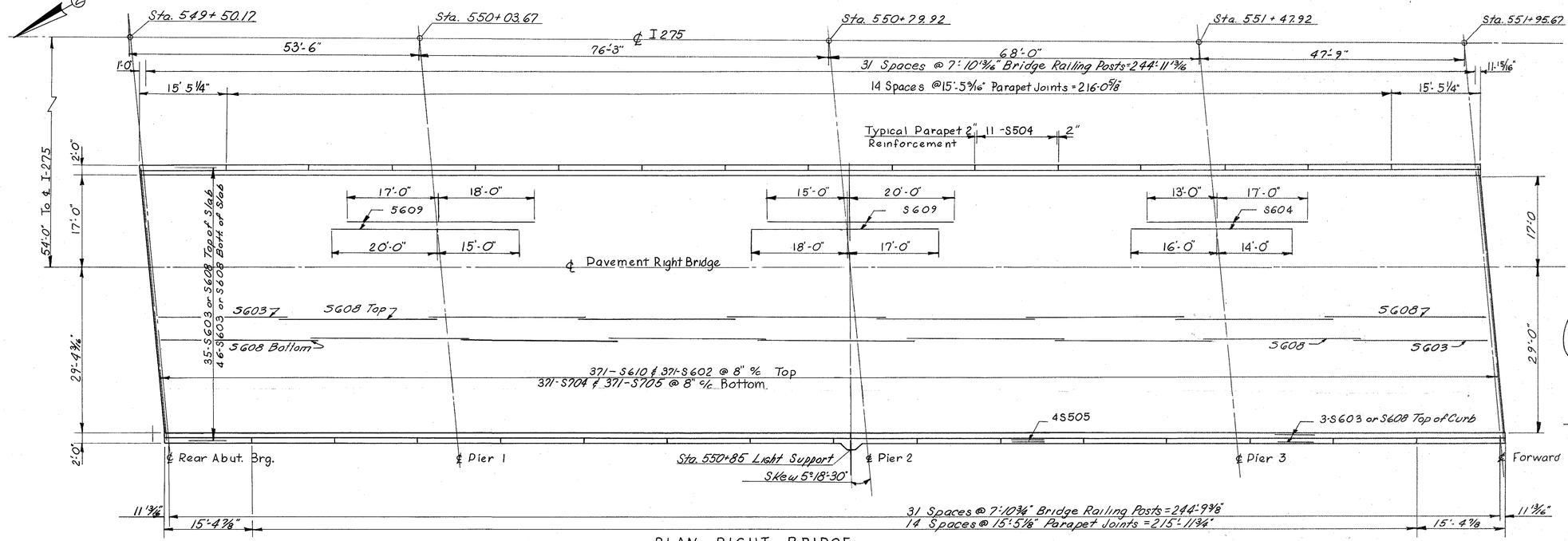
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
DES	DES	AG	JSF	R.K. 10-69	

MICROFILMED
MAR 27 1985

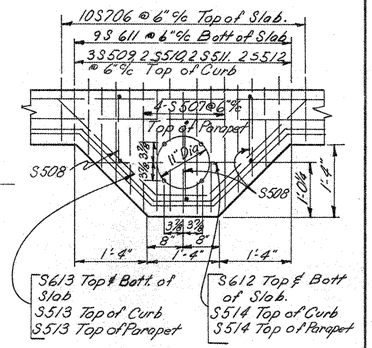
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

589
638

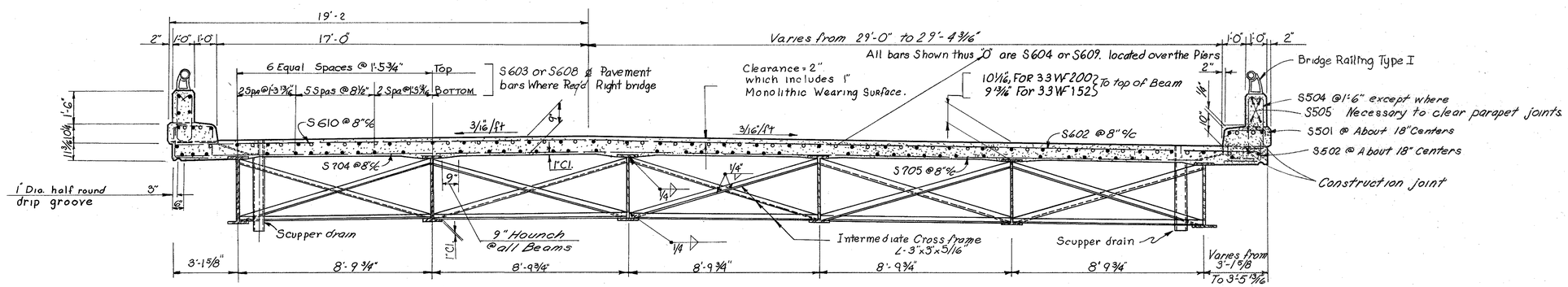
CLERMONT COUNTY
CLE-275-6.68



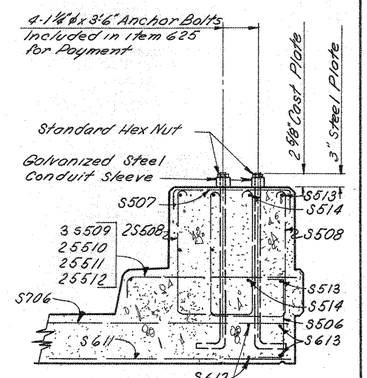
PLAN RIGHT BRIDGE



PLAN LIGHT SUPPORT DETAIL



TYPICAL SECTION - RIGHT BRIDGE



SECTION - LIGHT SUPPORT DETAIL

Note:
See Left Bridge Superstructure Detail Sheet for additional Notes.

HARRY BALKE ENGINEERS
990 NASSAU STREET
CINCINNATI, OHIO 45206

17 / 18

SUPERSTRUCTURE DETAILS

BRIDGE NO. CLE-275-1042 L.&R.
I-275 OVER S.R-32
CLERMONT CO. I-275
STA. 549+61.91 to STA. 551+97.93 L.B.
STA. 549+47.91 to STA. 551+97.93 R.B.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
D.E.S.	AL	FW	JSF	R.K. 10-69	

MICROFILMED
MAR 27 1969

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

590
638

CLERMONT COUNTY
CLE 275-6.68

REINFORCING STEEL LIST

ABUTMENTS

MARK	LENGTH	SHAPE	NO.	REAR L.B.	FWD L.B.	REAR R.B.	FWD R.B.	WEIGHT
A501	11'-11"	Bent	96	24	24	24	24	1193
A502	9'-0"	Bent	140	35	35	35	35	1314
A503	8'-7"	Str.	24	6	6	6	6	215
A504	7'-4"	Bent	140	35	35	35	35	1071
A505	7'-0"	Bent	140	35	35	35	35	1022
A506	5'-6"	Str.	24	6	6	6	6	138
A507	3'-5"	Str.	48	12	12	12	12	171
A508	10'-5"	Str.	8	2	2	2	2	87
A509	3'-2"	Bent	56	14	14	14	14	185
A510	24'-9"	Str	42	14		14	14	1084
A511	25'-9"	Str.	60	20		20	20	1611
A512	7'-11"	Bent	24	6		6	6	198
A513	5'-0"	Str.	72	18		18	18	375
A514	13'-8"	Str.	32	8	8	8	8	456
A515	12'-4"	Str	48	12	12	12	12	618
A516	8'-11"	Bent	8	2	2	2	2	74
A517	9'-11"	Bent	8	2	2	2	2	83
A518	3'-0"	Bent	64	16	16	16	16	200
A519	5'-7"	Bent	80	20	20	20	20	466
A520	4'-2"	Bent	24	6	6	6	6	
A521	5'-4"	Bent	16	4	4	4	4	
A522	7'-3"	Str.	8	2	2	2	2	60
A523	4'-6"	Str	16	4	4	4	4	75
A524	2'-10"	Bent	64	16	16	16	16	189
A525	13'-4"	Str	32	8	8	8	8	
A526	5'-0"	Str	16	4	4	4	4	83
A527	5'-9"	Str	8	2	2	2	2	48
A528	27'-0"	Str	20		20			563
A529	26'-0"	Str.	14		14			380
A601	14'-7"	Bent	140	35	35	35	35	3067
A602	18'-9"	Bent	16	4	4	4	4	452
A603	9'-7"	Bent	40	10	10	10	10	576
A604	15'-8	Bent	154	38	40	38	38	3624
A605	14'-1"	Bent	98	12	12	12	12	1015
A606	7'-6"	Bent	16	4	4	4	4	180
A801	11'-6"	Str	98	12	12	12	12	1474
A802	26'-10"	Str	42	14		14	14	3009
A803	28'-3"	Str	14			14		1056
							TOTAL	26,412

PIERS

MARK	LENGTH	SHAPE	NO.	PIER-1 L.B.	PIER-2 L.B.	PIER-3 L.B.	PIER-1 R.B.	PIER-2 R.B.	PIER-3 R.B.	WEIGHT
P401	2'-8"	Str.	180	30	30	30	30	30	30	321
P402	24'-3"	Str.	60	12	12		12	12	12	972
P403	24'-6	Str	12			12				196
P501	8'-8"	Str	360	60	60	60	60	60	60	3,254
P502	9'-6"	Bent	24	4	4	4	4	4	4	238
P503	9'-9"	Bent	24	4	4	4	4	4	4	244
P504	10'-0"	Bent	24	4	4	4	4	4	4	251
P505	10'-3"	Bent	24	4	4	4	4	4	4	257
P506	10'-6"	Bent	24	4	4	4	4	4	4	263
P507	10'-9"	Bent	24	4	4	4	4	4	4	269
P508	11'-5"	Bent	944	80	80	80	68	68	68	5289
P701	10'-4"	Bent	60	10	10	10	10	10	10	1267
P901	11'-2"	Bent	300	50	50	50	50	50	50	11390
P902	25'-0"	Bent	40	8	8		8	8	8	3,400
P903	15'-9"	Str	40	8	8		8	8	8	2141
P904	25'-3	Bent	8			8				687
P905	16'-0"	Str	8			8				435
P1001	6'-6"	Bent	48	8	8	8	8	8	8	1344
P1002	16'-7"	Str	8				8			571
P1003	17'-4"	Str	8					8		597
P1004	18'-1"	Str	8						8	622
P1005	17'-7"	Str	8			8				605
P1006	16'-4"	Str.	8	8						562
P1007	17'-1"	Str.	8		8					588
P1101	6'-11"	Bent	156	28	28	28	24	24	24	5,733
P1102	16'-7"	Str	24				24			2,115
P1103	17'-4"	Str	24					24		2,210
P1104	18'-1"	Str	24						24	2,306
P1105	16'-0"	Str	60	12	12		12	12	12	5,100
P1106	34'-9"	Str	60	12	12		12	12	12	11,077
P1107	35'-1"	Str	12			12				2,237
P1108	16'-1"	Str.	12			12				1,025
P1109	17'-6"	Str.	28			28				2,603
P1110	16'-4"	Str.	28	28						2,430
P1111	17'-1"	Str.	28		28					2,541
									Total	75,140

SUPERSTRUCTURE

MARK	LENGTH	SHAPE	NO.	L. B.	R. B.	WEIGHT
S501	2'-6"	Bent	644	312	332	1680
S502	4'-11"	Bent	644	312	332	3303
S503	14'-2"	Str	128	128		
S504	5'-7"	Bent	704	352	352	4100
S505	15'-1"	Str	128		128	
S506	2'-5"	Bent	18	9	9	45
S507	2'-1"	Str	8	4	4	17
S508	6'-4"	Bent	6	3	3	40
S509	4'-3"	Bent	6	3	3	27
S510	3'-10"	Bent	4	2	2	16
S511	3'-3"	Bent	4	2	2	14
S512	2'-10"	Bent	4	2	2	12
S513	6'-3	Bent	4	2	2	26
S514	2'-7"	Str	4	2	2	11
S601	27'-0"	Str	349	349		14,149
S602	24'-10"	Str.	251	251		9,362
S603	27'-5"	Str	881	98	783	36,279
S604	30'-0"	Str	649	649		29,244
S605	36'-0"	Str.	95	95		5,137
S606	33'-0"	Str	39	39		1,933
S607	29'-0"	Str	80	80		3,485
S608	22'-0"	Str.	87		87	2,875
S609	35'-0"	Str.	72		72	3785
S610	26'-0"	Str	742		742	28,977
S611	7'-6"	Str	18	9	9	203
S612	2'-7"	Str	4	2	2	16
S613	6'-3"	Bent	4	2	2	38
S701	22'-6"	Str.	349	349		16,051
S702	29'-8"	Str	251	251		15,220
S703	32'-3"	Str	98	98		6,459
S704	30'-0"	Str.	371		371	22,750
S705	21'-8"	Str.	371		371	16,430
S706	7'-10"	Str.	20	10	10	320
					Total	222,004

REPLACEMENT BARS

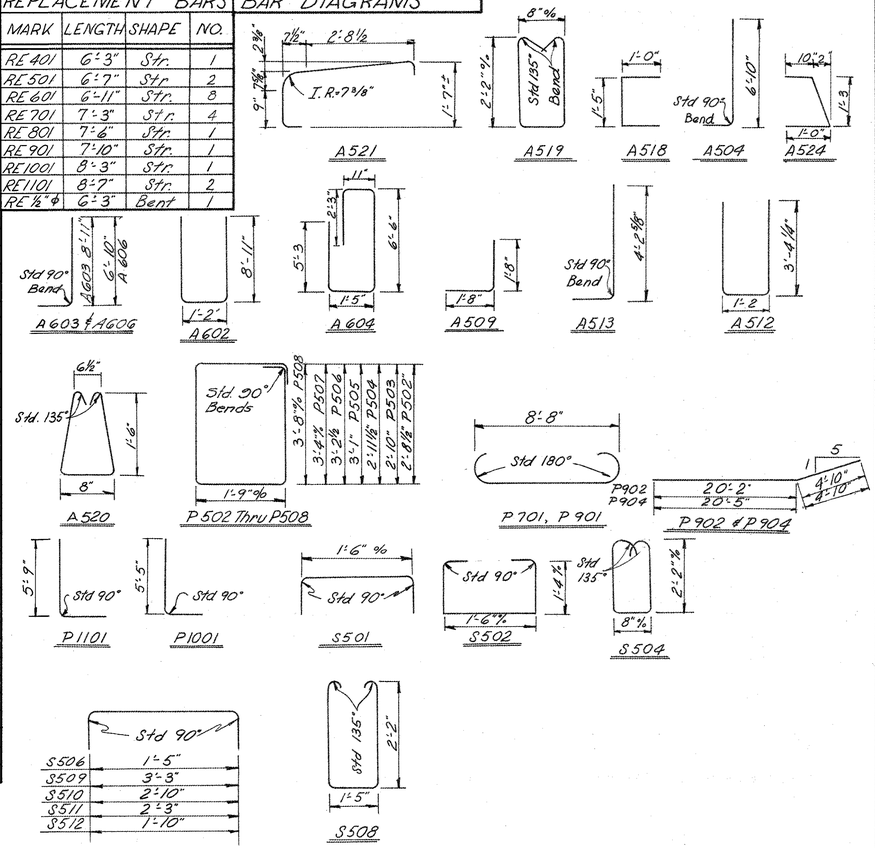
MARK	LENGTH	SHAPE	NO.
RE401	6'-3"	Str.	1
RE501	6'-7"	Str.	2
RE601	6'-11"	Str.	8
RE701	7'-3"	Str.	4
RE801	7'-6"	Str.	1
RE901	7'-10"	Str.	1
RE1001	8'-3"	Str.	1
RE1101	8'-7"	Str.	2
RE½"ϕ	6'-3"	Bent	1

SPIRAL REINFORCEMENT

MARK	NO.	SIZE	CORE DIA.	LENGTH	PITCH	NO. TURNS	WEIGHT
SP401	3	½"ϕ	32"	12'-9"	4½"	37	726
SP402	3	½"ϕ	32"	13'-6"	4½"	39	768
SP403	3	½"ϕ	32"	14'-6"	4½"	42	825
SP404	3	½"ϕ	32"	14'-0"	4½"	40	786
SP405	3	½"ϕ	32"	13'-0"	4½"	38	744
SP406	3	½"ϕ	32"	13'-9"	4½"	40	783
						Total	4635

NOTES:
Spiral Reinforcing Bars: The "Length" shown in the steel list for the Spiral Bars is the distance from the top of the footing to the bottom of the pier cap.
The "Numbers of Turns" shown is the length minus 2" divided by the pitch plus 3 turns (total number of closed coils) expressed as the nearest whole number.
Spiral Reinforcing bars shall not have deformations but shall in other respects conform to Item 509, 1½" closed coils shall be provided at the ends of each spiral unit.
Four steel channels, tee or angle spacers, weighing approximately 0.80 lb per lin ft of spacer, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil.
The number of pounds of these spacers, based on 0.80 lb per lin ft, will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.
BAR SIZE is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four are used, indicate the bar Size number.
For example P101 is a No 7 size bar and 1001 is a No 10 size bar. All dimensions are out to out.
Note: A520, A521, A525, S503 & S505 bars are included with 517 for Payment.

BAR DIAGRAMS



HARRY BALKE ENGINEERS 18/18
990 NASSAU STREET
CINCINNATI, OHIO 45206

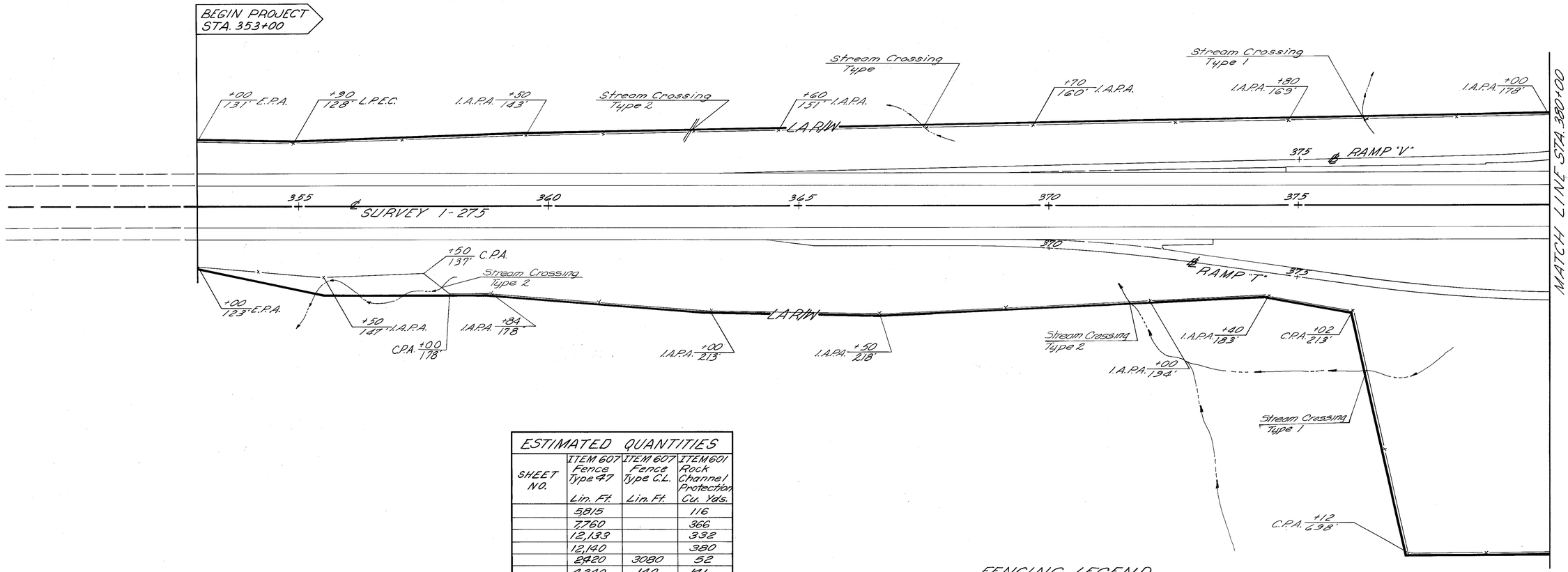
REINFORCING STEEL
BRIDGE NO. CLE-275-1042 L.&R.
I-275 OVER S.R-32
CLERMONT CO. I-275
STA.549+61.91 to STA.551+97.93 L.B.
STA.549+47.91 to STA.551+97.93 R.B.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
D.E.S.	HLO	TW	JSF	R.K. 10-69	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

591/638

CLERMONT COUNTY
CLE-275-



ESTIMATED QUANTITIES

SHEET NO.	ITEM 607 Fence Type 47 Lin. Ft.	ITEM 607 Fence Type C.L. Lin. Ft.	ITEM 601 Rock Channel Protection Cu. Yds.
	5815		116
	7760		366
	12,133		332
	12,140		380
	8420	3080	52
	4,240	140	141
	2,010	830	32
TOTALS	46,518	4050	1419

FENCING LEGEND

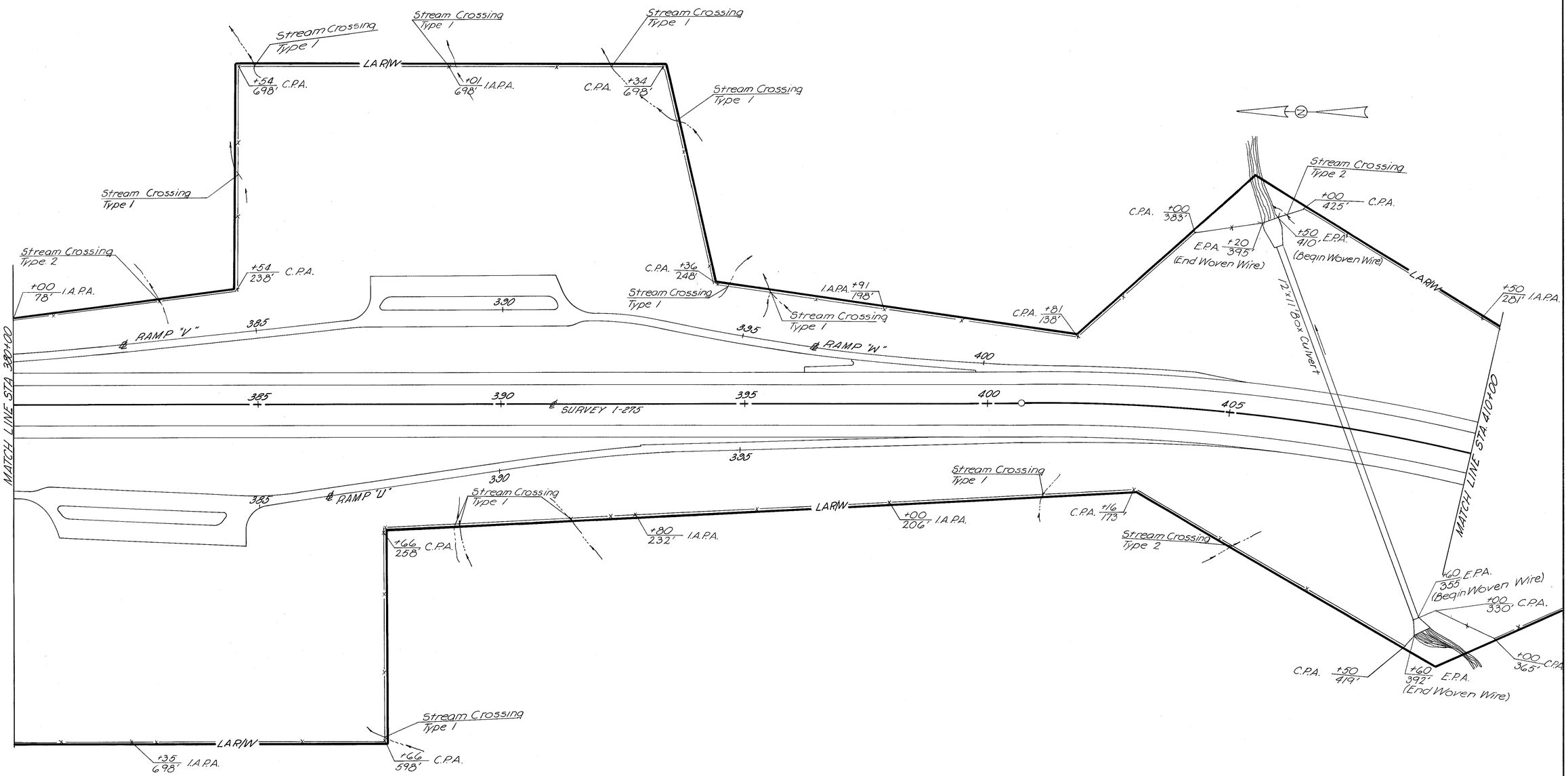
—x— Woven Wire Fence Type 47
—xx— 60" Chain Link Fence
C.P.A. Corner Post Assembly
E.P.A. End Post Assembly
I.A.P.A. Intermediate Anchor Post Assembly
L.P.E.C. Line Post Encased in Concrete
H.W.C.A. Headwall Connection, Type A
H.W.C.D. Headwall Connection, Type D

FENCING PLAN
STA. 353+00 ~ STA. 380+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE-275

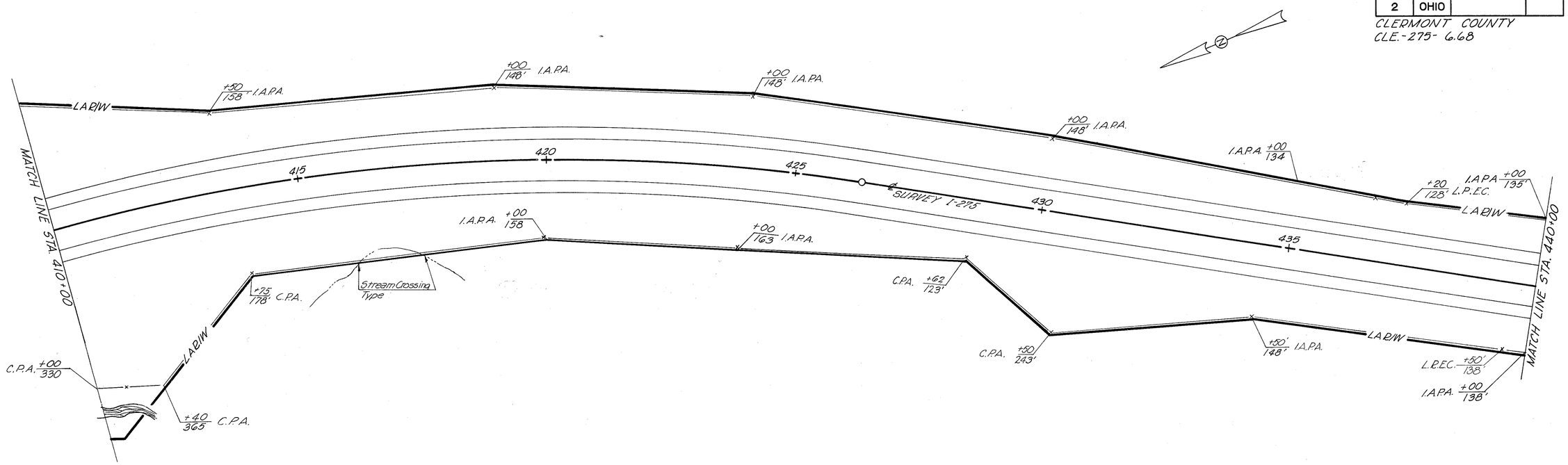


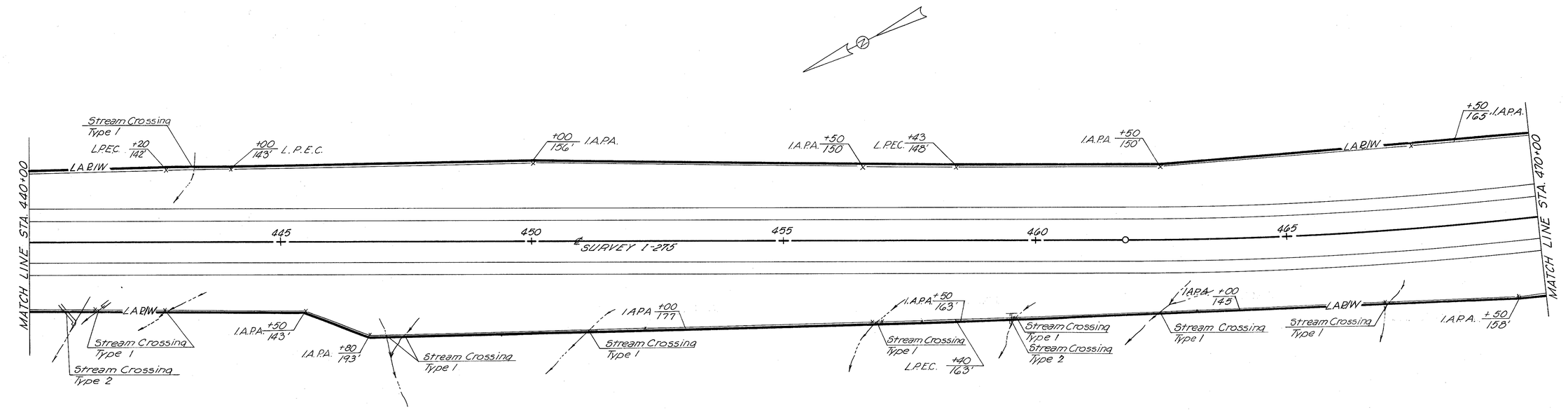
FENCING PLAN
STA. 380+00 ~ STA. 410+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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638

CLERMONT COUNTY
CLE.-275- 6.68



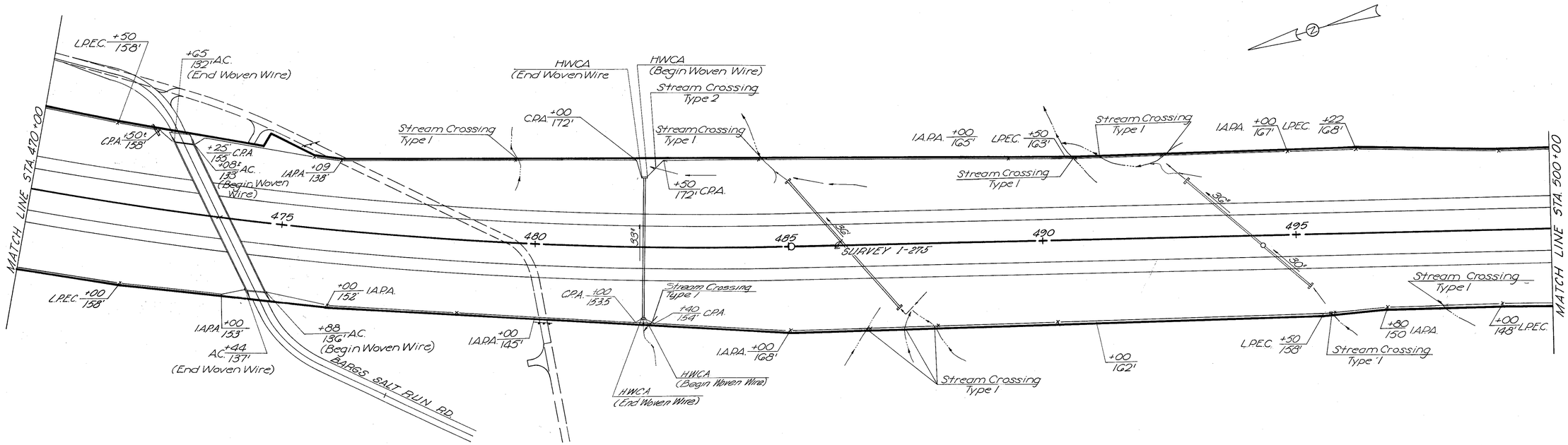


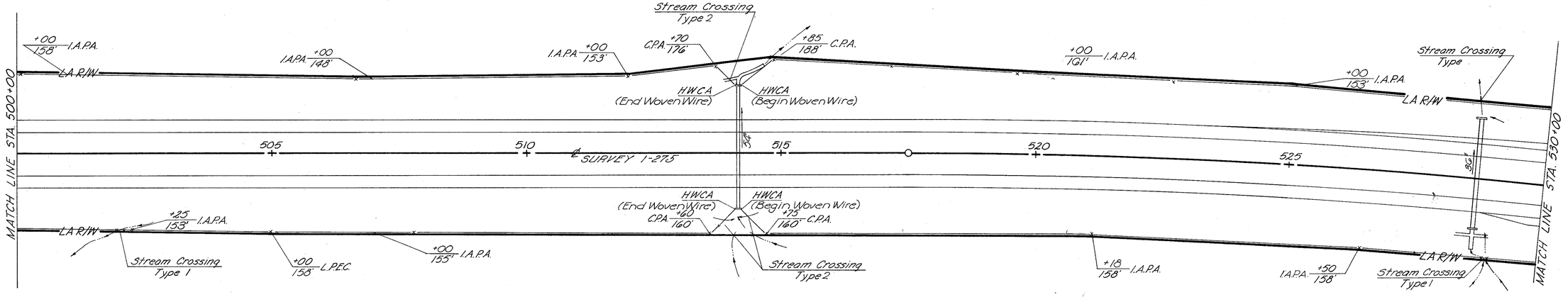
FENCING PLAN
STA. 410+00 ~ 470+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

594
638

CLERMONT COUNTY
CLE.-275-





FENCING PLAN
STA. 470+00 ~ STA. 530+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

595
638

CLERMONT COUNTY
CLE.-275-6.68

MATCH LINE STA. 530+00

535 540 ℄ I-275 545 550 555

535 +00 156' I.A.P.A.

I.A.P.A. +50 150'

AC. +12 145' (End Woven Wire Fence)

+54 145' AC (Begin Woven Wire Fence)

I.A.P.A. +00F 78'

I.A.P.A. +00F 63'

I.A.P.A. +00F 76'

45

CINCINNATI - BATAVIA PIKE

℄ RAMP "F"

℄ RAMP "G"

℄ RAMP "K"

℄ RAMP "J"

540 545 535 570 555 560 565

℄ SR 32

70

MATCH LINE STA. 560+00

+64J 109' Pull Panel

+71J 58' Pull Panel

+58J 64' Pull Panel

C.P.A. +50F 53'

Developed Land

MATCH LINE STA. 62+00

+00 104'

℄ STATE ROUTE 32

+57 109' Pull Panel

+69 73' End Panel (Begin Chain Link Fence)

Pull Panel +81 85'

Exist. R/W

(End Chain Link Fence) End Panel +90 84'

Exist. R/W

E.P.A. +00 115' (End Woven Wire Fence)

End Panel +00 116' (Begin Chain Link Fence)

Stream Crossing Type 1

+07 Pull 109' Panel

AICHOLTZ RD.

Stream Crossing Type 2

+36 100' Pull Panel

RUST LANE EXTENSION

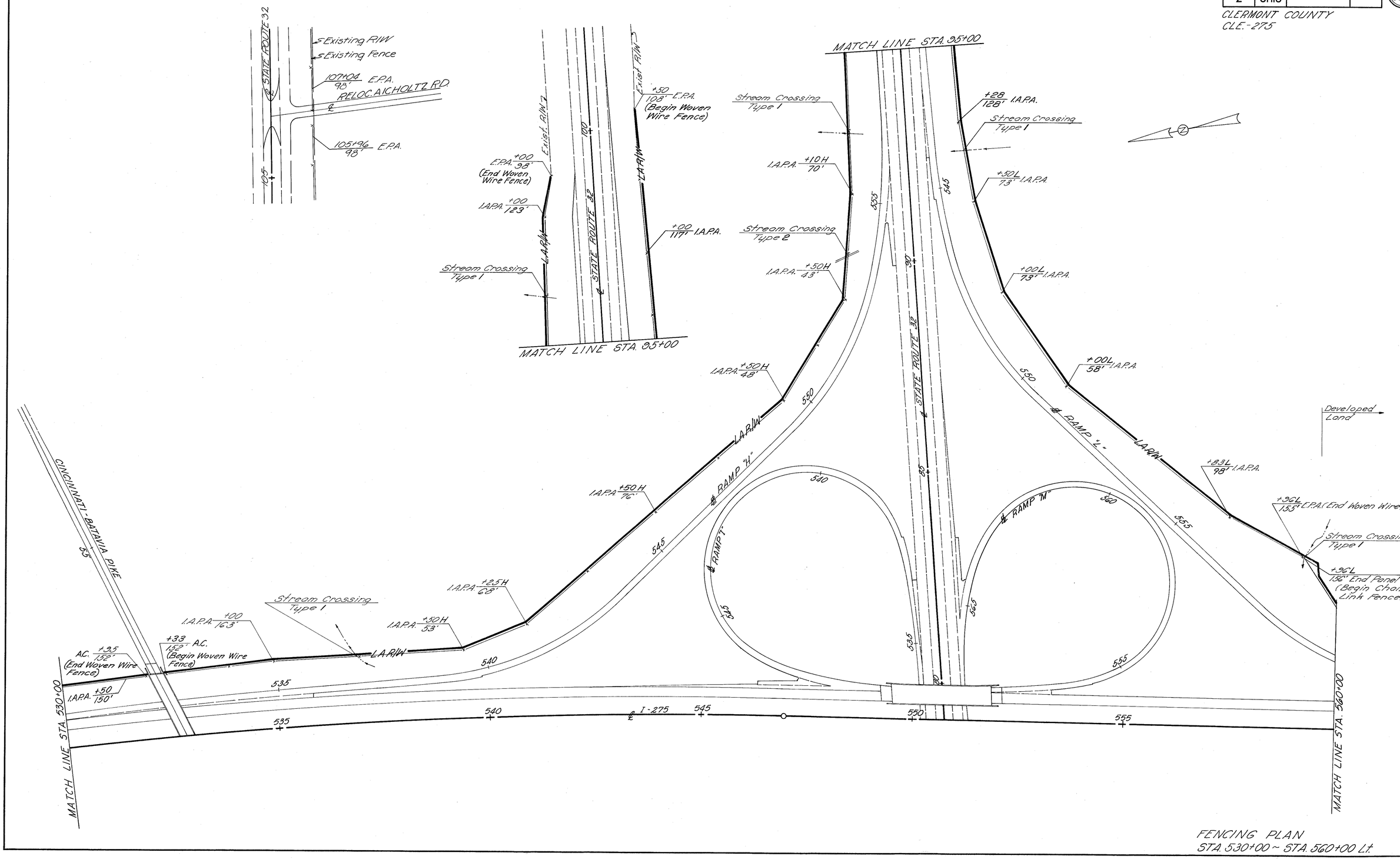
MATCH LINE STA. 62+00

FENCING PLAN
STA. 530+00 ~ STA. 560+00 Rt.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

596
638

CLERMONT COUNTY
CLE-275



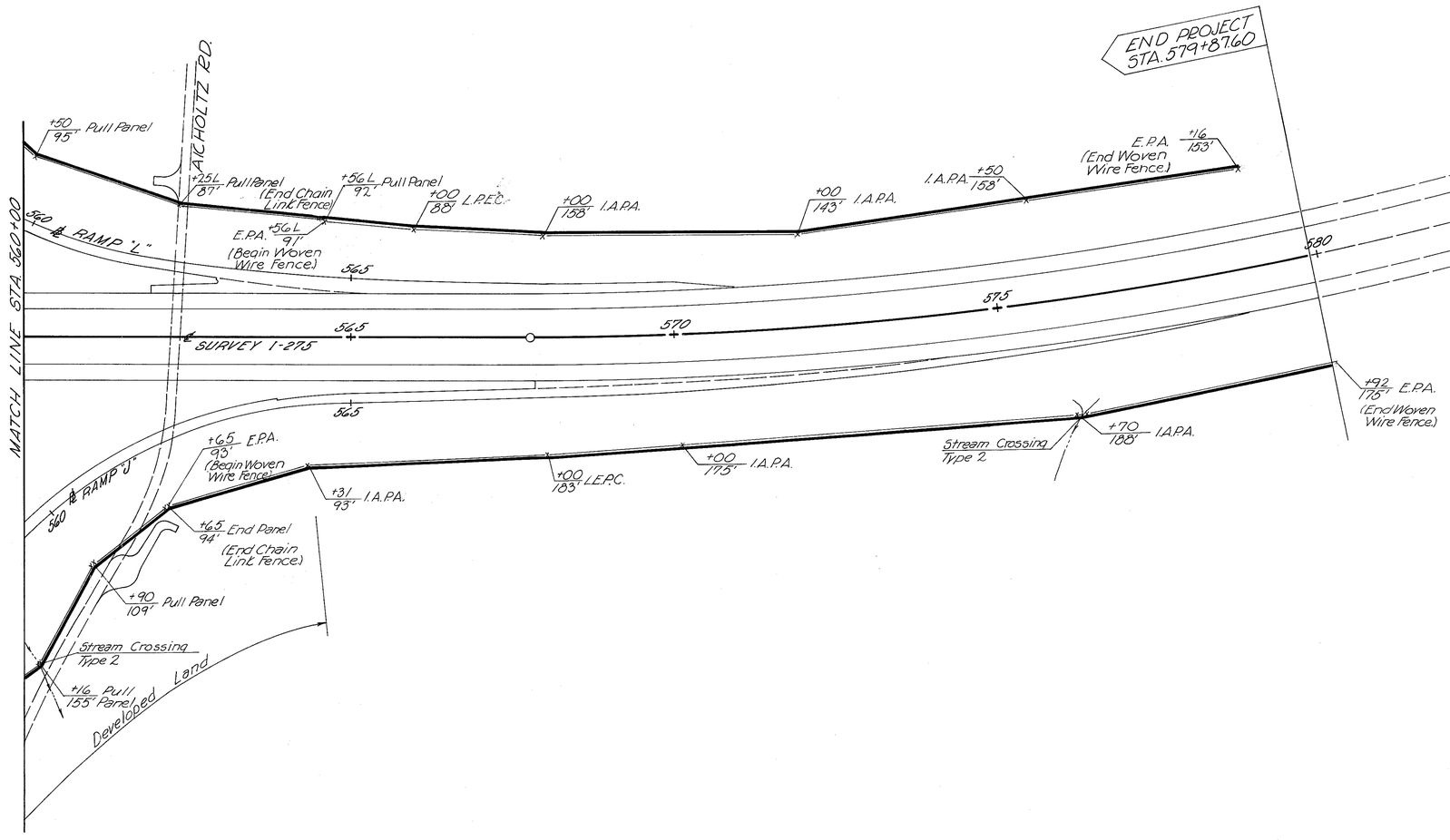
FENCING PLAN
STA. 530+00 ~ STA. 560+00 Lt.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

597
638

CLERMONT COUNTY
CLE-275 6.68

477 Pgs
597-638
Plus Soil Profiles



FENCING PLAN
STA. 560+00 ~ STA. 579+87.60

This improvement has been declared a Limited Access Highway from Sta 353+00 to Sta 579+81.66 by action of the Director of Highways and recorded in Volume 45 Page 1047 of the Directors Journal pursuant to law.

LOCATION SURVEY PLAT

CIRCLE FREEWAY
INTERSTATE ROUTE 275 SEC. 6.68
CLERMONT COUNTY
UNION TOWNSHIP

MILITARY SURVEYS 674, 1935, 2721, 2434, 1138, 1136, 666, 1115

1967

SCALE IN FEET 0 200 400 800 1200

Received _____ 19____
Recorded _____ 19____
Book _____ Page _____
Clermont County Recorder

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

598 / 6.38

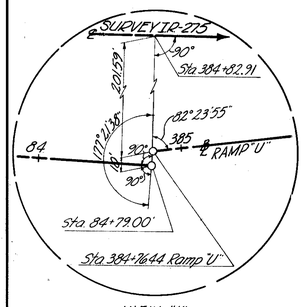
1 / 41

CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS

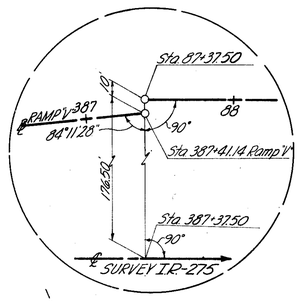
Signed _____
I.P. Basler
Date _____ Division Deputy Director

I hereby certify that this Plat is a true delineation of a survey made for the Ohio Department of Highways in 1967 by Harry Balke Engineers.

John R. Robinson Date Dec. 14, 1968
CHIEF ENGINEER
REG. SURVEYOR NO. 4515



VIEW "A"



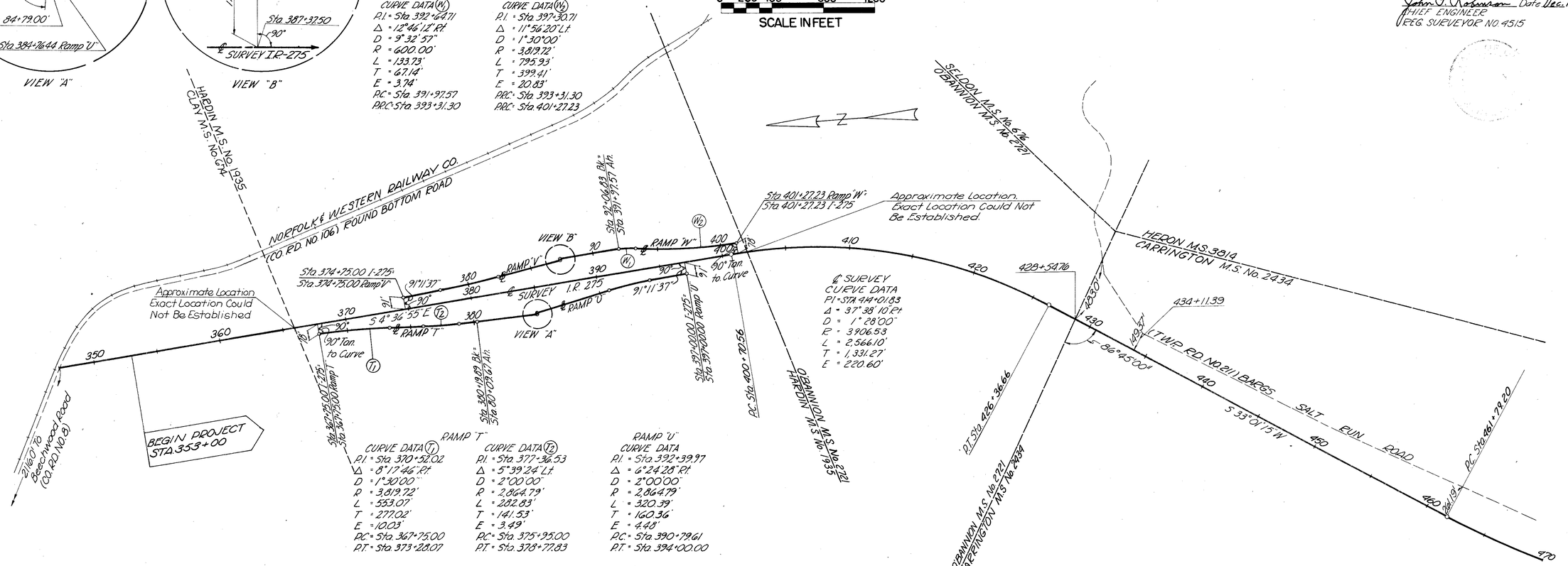
VIEW "B"

RAMP "V"
CURVE DATA
P.I. = Sta 380+05.89
Δ = 4°36'55" Lt.
D = 1°00.00"
R = 5,729.58'
L = 461.53'
T = 230.89'
E = 4.65
P.C. = Sta 377+75.00
P.T. = Sta 382+36.53

RAMP "W"

CURVE DATA (W1)
P.I. = Sta 392+64.71
Δ = 12°46'12" Rt.
D = 9°32'52"
R = 600.00'
L = 133.73'
T = 67.14'
E = 3.74'
P.C. = Sta 391+97.57
P.R.C. = Sta 393+31.30

CURVE DATA (W2)
P.I. = Sta 397+30.71
Δ = 11°56'20" Lt.
D = 1°30'00"
R = 3819.72'
L = 795.93'
T = 399.41'
E = 20.83'
P.R.C. = Sta 393+31.30
P.R.C. = Sta 401+27.23



RAMP "T"

CURVE DATA (T1)
P.I. = Sta 370+52.02
Δ = 8°17'46" Rt.
D = 1°30'00"
R = 3819.72'
L = 553.07'
T = 277.02'
E = 10.03'
P.C. = Sta 367+75.00
P.T. = Sta 373+28.07

CURVE DATA (T2)
P.I. = Sta 377+36.53
Δ = 5°39'24" Lt.
D = 2°00'00"
R = 2864.79'
L = 282.83'
T = 141.53'
E = 3.49'
P.C. = Sta 375+95.00
P.T. = Sta 378+77.83

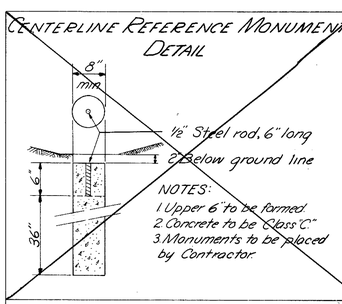
RAMP "U"

CURVE DATA
P.I. = Sta 392+39.97
Δ = 6°24'28" Rt.
D = 2°00'00"
R = 2,864.79'
L = 320.39'
T = 160.36'
E = 4.48'
P.C. = Sta 390+79.61
P.T. = Sta 394+00.00

LOCATION OF CENTERLINE REFERENCE MONUMENTS

STATION	LOCATION	STATION	LOCATION	STATION	LOCATION
354+00	On Centerline	435+00	On Centerline	517+50.50 P.C.	On Centerline
359+00	" "	440+00	" "	523+50	" "
365+00	" "	445+00	" "	529+50	" "
370+00	" "	450+00	" "	535+00	" "
375+00	" "	456+00	" "	541+00	" "
380+00	" "	461+79.20 P.C.	" "	546+95.44 P.T.	" "
385+00	" "	465+00	" "	552+00	" "
390+00	" "	470+00	" "	557+00	" "
395+00	" "	475+00	" "	562+00	" "
400+70.56 P.C.	" "	480+00	On Centerline	567+77.91 P.C.	" "
405+00	" "	485+04.76 P.T.	Rt & Ls 33' Lt. 33' Rt	574+00	On Centerline
410+00	" "	490+00	On Centerline		
415+00	" "	495+00	" "	REST AREAS	
421+00	" "	500+00	" "	375+51.24	77°31'14" & 220.46' & 711.78'
426+36.66 P.T.	" "	506+00	" "	384+52.01	90° Rt. 240' & 700'
430+00	On Centerline	512+00	On Centerline	387+68.53	90° Rt. 260' & 700'
				394+95.56	102°31'45" Lt. 235.40' & 711.78'

CENTERLINE REFERENCE MONUMENT DETAIL



NOTES:
1. Upper 6" to be formed.
2. Concrete to be "Class C"
3. Monuments to be placed by Contractor.

1 / 41

LOCATION SURVEY PLAT SHEET 1 OF 3

This improvement has been declared a Limited Access Highway from Sta 353+00 to Sta 579+87.60 by action of the Director of Highways and recorded in Volume 45 Page 1047 of the Directors Journal pursuant to law.

LOCATION SURVEY PLAT

CIRCLE FREEWAY
INTERSTATE ROUTE 275 SEC. 6.68
CLERMONT COUNTY
UNION TOWNSHIP
MILITARY SURVEYS 674, 1935, 2721, 2434, 1138, 1136, 666, 1115

1967

0 200 400 800 1200
SCALE IN FEET

Received _____ 19____
Recorded _____ 19____
Book _____ Page _____
Clermont County Recorder

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

CLERMONT COUNTY
CLE 275-6.60
LIMITED ACCESS
R/W PLANS

Signed _____
I.P. Basler
Date _____ Division Deputy Director

I hereby certify that this Plat is a true delineation of a survey made for the Ohio Department of Highways in 1967 by Harry Balke Engineers.
John J. Robinson Date Dec. 11, 1968
CHIEF ENGINEER
REG. SURVEYOR NO. 4515

RELOCATED BARGS SALT RUN RD.

CURVE DATA (1)
P.I. = Sta. 41+11.74
Δ = 53° 42' 00" Lt.
D = 23° 00' 00"
R = 249.11'
L = 233.48'
T = 126.11'
E = 30.10'
P.C. = Sta. 39+85.63
P.T. = Sta. 42+19.11

CURVE DATA (2)
P.I. = Sta. 47+21.11
Δ = 39° 03' 00" Rt.
D = 26° 00' 00"
R = 220.37'
L = 150.19'
T = 78.15'
E = 13.45'
P.C. = Sta. 46+42.96
P.T. = Sta. 47+93.15

CURVE DATA (3)
P.I. = Sta. 52+82.69
Δ = 47° 45' 00" Lt.
D = 28° 00' 00"
R = 204.63'
L = 170.53'
T = 90.57'
E = 19.15
P.C. = Sta. 52+02.12
P.T. = Sta. 53+72.65

CINCINNATI-BATAVIA PIKE

CURVE DATA
P.I. = Sta. 45+06.95
Δ = 13° 49' 00" Rt.
D = 4° 30' 00"
R = 1273.24'
L = 307.04'
T = 154.27'
E = 9.31
P.C. = Sta. 43+52.68
P.T. = Sta. 46+59.72

RELOCATED AICHOLTZ ROAD

CURVE DATA (1)
P.I. = Sta. 31+03.50
Δ = 98° 08' 43" Rt.
D = 38° 11' 50"
R = 150.00'
L = 256.95'
T = 173.00'
E = 78.98'
P.C. = Sta. 29+30.50
P.T. = Sta. 31+87.45

CURVE DATA (2)
P.I. = Sta. 44+88.68
Δ = 52° 15' 23" Lt.
D = 10° 00' 00"
R = 572.96'
L = 522.56'
T = 281.68'
E = 68.56'
P.C. = Sta. 43+23.00
P.T. = Sta. 46+45.56

AICHOLTZ ROAD CONNECTION

CURVE DATA
P.I. = Sta. 11+23.00
Δ = 44° 47' 33" Rt.
D = 71° 37' 11"
R = 80.00'
L = 62.54'
T = 32.97'
E = 6.53'
P.C. = Sta. 10+90.03
P.T. = Sta. 11+52.57

Rel. Aicholtz Rd. Sta. 30+76.00
Aicholtz Rd Conn. Sta. 10+00.00

S.R. 32 Sta. 106+40.00
Rel. Aicholtz Rd. Sta. 49+60.12

33° 57' 37"

RELOCATED AICHOLTZ ROAD (CO. RD. NO. 3)

S.R. 32 Sta. 93+50.86
Ramp "H" Sta. 557+18.84

90° 00' 00" Tan. to Curve
AICHOLTZ ROAD CONNECTION

RAMP "H"

CURVE DATA (H1)
P.I. = Sta. 541+32.27
Δ = 39° 31' 06" Lt.
D = 8° 00' 00"
R = 716.20'
L = 493.98'
T = 257.27'
E = 44.81'
P.C. = Sta. 538+75.00
P.T. = Sta. 543+68.98

CURVE DATA (H2)
P.I. = Sta. 551+51.22
Δ = 35° 10' 05" Lt.
D = 8° 00' 00"
R = 716.20'
L = 439.60'
T = 226.97'
E = 35.11'
P.C. = Sta. 549+24.25
P.C.C. = Sta. 553+63.85

CURVE DATA (H3)
P.I. = Sta. 555+42.26
Δ = 14° 11' 59" Lt.
D = 8° 00' 00"
R = 1,432.39'
L = 354.99'
T = 178.41'
E = 11.07'
P.C.C. = Sta. 553+63.85
P.T. = Sta. 557+18.84

RAMP "L"

CURVE DATA (L1)
P.I. = Sta. 545+23.48
Δ = 8° 00' 00" Lt.
D = 4° 00' 00"
R = 1,432.39'
L = 200.00'
T = 100.16'
E = 3.50'
P.C. = Sta. 544+23.32
P.C.C. = Sta. 546+23.32

CURVE DATA (L2)
P.I. = Sta. 548+38.42
Δ = 33° 26' 03" Lt.
D = 8° 00' 00"
R = 716.20'
L = 417.93'
T = 215.10'
E = 31.60'
P.C.C. = Sta. 546+23.32
P.T. = Sta. 550+41.25

I-275 Sta. 567+50 =
Ramp "L" Sta. 567+50

CURVE DATA (L3)
P.I. = Sta. 559+93.57
Δ = 33° 31' 45" Lt.
D = 8° 00' 00"
R = 716.20'
L = 419.11'
T = 215.75'
E = 31.79'
P.C. = Sta. 557+77.82
P.C.C. = Sta. 561+96.93

CURVE DATA (L4)
P.I. = Sta. 564+73.95
Δ = 8° 17' 46" Lt.
D = 1° 30' 00"
R = 3819.72'
L = 553.07'
T = 277.02'
E = 10.03'
P.C.C. = Sta. 561+96.93
P.T. = Sta. 567+50.00

S.R. 32 Sta. 92+43.94
Ramp "L" Sta. 544+23.32

I-275 Sta. 550+79.92
S.R. 32 Sta. 79+12.47

579+53.52

77° 00' 16" Tan to Curve

I-275 Sta. 567+87.60 =
Ramp "J" Sta. 567+87.60

RAMP "J"

CURVE DATA (J1)
P.I. = Sta. 545+76.30
Δ = 14° 31' 30" Rt.
D = 4° 00' 00"
R = 1,432.39'
L = 363.13'
T = 182.54'
E = 11.58'
P.C.C. = Sta. 543+93.76
P.C.C. = Sta. 547+56.89

CURVE DATA (J2)
P.I. = Sta. 549+70.84
Δ = 34° 26' 13" Rt.
D = 8° 00' 00"
R = 716.20'
L = 430.46'
T = 221.95'
E = 33.60'
P.C.C. = Sta. 547+56.89
P.T. = Sta. 551+87.35

CURVE DATA (J3)
P.I. = Sta. 562+19.31
Δ = 45° 28' 28" Rt.
D = 8° 00' 00"
R = 716.20
L = 568.43'
T = 300.14'
E = 60.35'
P.C. = Sta. 559+19.17
P.T. = Sta. 564+87.60

(Co. Rd. No. 3) Aicholtz Rd. Sta. 64+22.28 =
Rust Le. Ext. Sta. 17+52.50

S.R. 32 Sta. 63+00.58 =
Ramp "J" Sta. 543+93.76

RUST LANE EXTENSION

S.P. 32 Sta. 66+00 =
Ramp "F" Sta. 556+62.67

S.R. 32 Sta. 64+25.18
(Co. Rd. No. 3) Aicholtz Rd. Sta. 10+00

RAMP "F"

CURVE DATA (F1)
P.I. = Sta. 535+00.08
Δ = 10° 58' 10" Rt.
D = 2° 00' 00"
R = 2,864.79'
L = 548.47'
T = 275.08'
E = 13.18'
P.C.C. = Sta. 532+25.00
P.C.C. = Sta. 537+73.47

CURVE DATA (F2)
P.I. = Sta. 539+83.65
Δ = 32° 42' 35" Rt.
D = 8° 00' 00"
R = 716.20'
L = 408.87'
T = 210.18'
E = 30.20'
P.C.C. = Sta. 537+73.47
P.T. = Sta. 541+82.34

CURVE DATA (F3)
P.I. = Sta. 545+65.27
Δ = 8° 52' 46" Lt.
D = 4° 30' 00"
R = 1,273.24'
L = 197.32'
T = 98.86'
E = 3.83'
P.C. = Sta. 544+66.41
P.T. = Sta. 546+63.73

CURVE DATA (F4)
P.I. = Sta. 551+84.96
Δ = 47° 19' 19" Rt.
D = 8° 00' 00"
R = 716.20'
L = 591.52'
T = 313.81'
E = 65.73'
P.C. = Sta. 548+71.15
P.C.C. = Sta. 554+62.67

CURVE DATA (F5)
P.I. = Sta. 555+62.83
Δ = 8° 00' 00" Rt.
D = 4° 00' 00"
R = 1,432.39'
L = 200.00'
T = 100.16'
E = 3.50'
P.C.C. = Sta. 554+62.67
P.T. = Sta. 556+62.67

S.R. 32
CURVE DATA
P.I. = Sta. 60+98.64
Δ = 2° 11' 00" Rt.
D = 0° 20' 00"
R = 17,188.74
L = 655.00'
T = 327.54'
E = 3.12'
P.C. = Sta. 57+71.10
P.T. = Sta. 64+26.10

RUST LANE EXTENSION

CURVE DATA (1)
P.I. = Sta. 11+71.30
Δ = 48° 30' 00" Rt.
D = 21° 00' 00"
R = 272.84'
L = 230.95'
T = 122.90'
E = 26.40'
P.C. = Sta. 10+48.40
P.T. = Sta. 12+79.35

CURVE DATA (2)
P.I. = Sta. 15+79.07
Δ = 49° 13' 00" Lt.
D = 21° 00' 00"
R = 272.84'
L = 234.36'
T = 124.97'
E = 27.26'
P.C. = Sta. 14+54.10
P.T. = Sta. 16+88.46

MATTHEW MS. No. 1138
CARRINGTON M.S. No. 2434
MELODY LANE
DIANE DRIVE
(CO. RD. NO. 171)
EDWILLA DRIVE
VERMONA DRIVE
ELMONT DRIVE
CINCINNATI-BATAVIA PIKE
AICHOLTZ RD
STATE ROUTE 32
RUST LE
MOSLEY M.S. 1115
MORROW M.S. 666

P.C. Sta. 461+72.20
P.T. Sta. 485+04.76
479+86.35
(TWP. RD. NO. 211) BARGS SALT RUN RD.
REL. BARGS SALT RUN RD.
75° 58' 13"
CNTR'LINE TO Krohne Rd (CO. RD. NO. 229)
I.R. 275 Sta. 473+75 =
Rel. Bargs Salt Run Rd. Sta. 50+00
℄ SURVEY I.R. 275
CURVE DATA
P.I. = Sta. 473+51.04
Δ = 17° 26' 30" Lt.
D = 0° 45' 00"
R = 7639.44'
L = 2,325.56'
T = 1,171.84'
E = 89.35'
S 15° 34' 45" W
68° 00' 20" Tan. to Curve
I-275 Sta. 532+73.25
(Co. Rd. No. 171) Cinti-Batavia Pike Sta. 50+00
I-275 Sta. 535+75.00
Ramp "H" Sta. 535+75.00
90° Tan. to Curve
91° 11' 37"
84° 41' 30"
S 29° 19' 20" W
90° Tan. to Curve
91° 11' 37"
℄ SURVEY
CURVE DATA
P.I. = Sta. 532+30.07
Δ = 13° 44' 35" Rt.
D = 0° 28' 00"
R = 12,277.67'
L = 2,944.94'
T = 1,479.57'
E = 88.83'
I-275 Sta. 532+25.00
Ramp "F" Sta. 532+25.00
P.C. Sta. 517+50.50
P.T. Sta. 546+45.44
2204.07'
S 63° 59' 10" E
91° 25' 56" Tan. to Curve
90° Tan. to Curve
66° 45' Tan. to Curve
90° Tan. to Curve
90° 00' 00" Tan. to Curve
P.C. Sta. 567+77.91
19143'
S. MATTHEW M.S. 1138
MOSLEY M.S. 1115
37° 11' 12"
30° Tan. to Curve
(Co. Rd. No. 3) Aicholtz Rd. Sta. 64+22.28 =
Rust Le. Ext. Sta. 17+52.50
S.R. 32 Sta. 63+00.58 =
Ramp "J" Sta. 543+93.76
RUST LANE EXTENSION
S.P. 32 Sta. 66+00 =
Ramp "F" Sta. 556+62.67
S.R. 32 Sta. 64+25.18
(Co. Rd. No. 3) Aicholtz Rd. Sta. 10+00

℄ SURVEY
CURVE DATA
P.I. = Sta. 579+27.27
Δ = 22° 41' 10" Lt.
D = 1° 00' 00"
R = 5729.58'
L = 2268.61'
T = 1,149.36'
E = 114.14'
P.T. = Sta. 590+46.52

DETAIL "A"
DETAIL "B"
DETAIL "C"

LOCATION OF CENTERLINE REFERENCE MONUMENTS

STATION	LOCATION
RAMP "F"	
532+25.00 P.C.C.	DETAIL "A"
537+73.47 P.C.C.	Rt & ℄'s 21' Lt., 7' Rt.
541+82.34 P.T.	Rt & ℄'s 20' Lt., 7' Rt.
544+66.41 P.C.	Rt & ℄'s 20' Lt., 7' Rt.
546+63.73 P.T.	DETAIL "A"
548+71.15 P.C.	Rt & ℄'s 20' Lt., 7' Rt.
554+62.67 P.C.C.	Rt & ℄'s 21' Lt. 7' Rt.
556+62.67 P.T.	DETAIL "A"
RAMP "H"	
538+75.00 P.C.	DETAIL "B"
543+68.98 P.T.	Rt & ℄'s 7' Lt. 20' Rt.
549+24.25 P.C.	Rt & ℄'s 7' Lt. 20' Rt.
553+63.85 P.C.C.	Rt & ℄'s 7' Lt. 21' Rt.
557+18.84 P.T.	DETAIL "B"
RAMP "J"	
543+93.76 P.C.	DETAIL "A"
547+56.89 P.C.C.	Rt & ℄'s 21' Lt. 7' Rt.
551+87.35 P.T.	Rt & ℄'s 20' Lt., 7' Rt.
556+00	DETAIL "A"
559+19.17 P.C.	Rt & ℄'s 20' Lt., 7' Rt.
564+87.60 P.T.	DETAIL "A"

STATION	LOCATION
RAMP "L"	
544+23.32 P.C.	DETAIL "B"
546+23.32 P.C.C.	Rt & ℄'s 7' Lt. 21' Rt.
550+41.25 P.T.	Rt & ℄'s 7' Lt. 20' Rt.
554+00	DETAIL "B"
557+77.82 P.C.	Rt & ℄'s 7' Lt. 20' Rt.
561+96.93 P.C.C.	Rt & ℄'s 7' Lt. 20' Rt.
567+50	DETAIL "B"
RELOCATED BARGS SALT RUN ROAD	
39+85.63 P.C.	Rt & ℄'s 21' Lt. 21' Rt.
42+19.11 P.T.	Rt & ℄'s 21' Lt. 21' Rt.
46+42.96 P.C.	Rt & ℄'s 21' Lt. 21' Rt.
47+93.15 P.T.	Rt & ℄'s 21' Lt. 20' Rt.
52+02.12 P.C.	Rt & ℄'s 20' Lt. 21' Rt.
53+72.65 P.T.	Rt & ℄'s 21' Lt. 21' Rt.
CINCINNATI BATAVIA DIKE	
46+59.72 P.T.	Rt & ℄'s 21' Lt. 21' Rt.
52+50	Rt & ℄'s 21' Lt. 21' Rt.
57+50	Rt & ℄'s 21' Lt 21' Rt.

STATION	LOCATION
RELOCATED AICHOLTZ ROAD	
30+76.00	DETAIL "C"
31+87.45 P.T.	Rt & ℄'s 21' Lt. 21' Rt.
37+50	Rt & ℄'s 21' Lt 21' Rt.
43+23.00 P.C.	Rt & ℄'s 21' Lt. 21' Rt.
46+45.56 P.T.	Rt & ℄'s 21' Lt. 21' Rt.
RUST LANE EXTENSION	
10+48.40 P.C.	Rt & ℄'s 12' Lt. 21' Rt.
12+79.35 P.T.	Rt & ℄'s 13' Lt. 13' Rt.
14+54.10 P.C.	Rt & ℄'s 13' Lt. 13' Rt.
16+88.46 P.T.	Rt & ℄'s 13' Lt. 13' Rt.
AICHOLTZ ROAD CONNECTION	
10+90.03 P.C.	Rt & ℄'s 21' Lt., 21' Rt.

This improvement has been declared a Limited Access Highway from Sta 353+00 to Sta 579+57.60 by action of the Director of Highways and recorded in Volume 45 Page 1047 of the Director's Journal pursuant to law.

LOCATION SURVEY PLAT

CIRCLE FREEWAY
INTERSTATE ROUTE 275 SEC. 6.68
CLERMONT COUNTY
UNION TOWNSHIP

MILITARY SURVEYS 674, 1935, 2721, 2434, 1138, 1136, 666, 1115

1967

0 200 400 800 1200
SCALE IN FEET

Received ____ 19____
Recorded ____ 19____
Book ____ Page ____

Clermont County Recorder

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(19)	

600 / 638

3 / 41

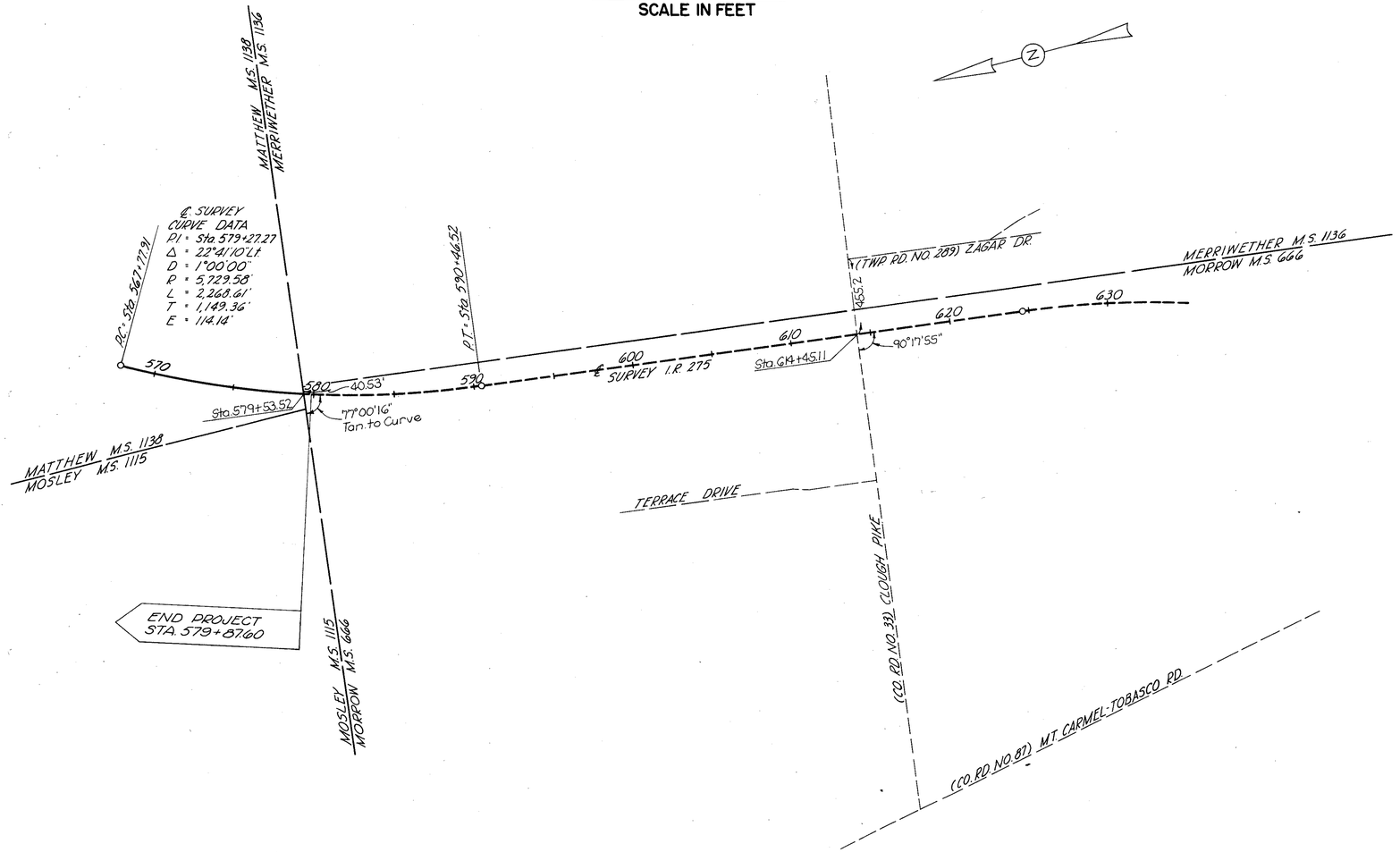
CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS

Signed ____ I.P. Basler
Date ____ Division Deputy Director

I hereby certify that this Plat is a true delineation of a survey made for the Ohio Department of Highways in 1967 by Harry Balke Engineers.

John G. Robinson Date Dec. 11, 1968
CHIEF ENGINEER
REG. SURVEYOR NO. 4515

STATE OF OHIO
JOHN G. ROBINSON
4515
REGISTERED SURVEYOR



PROPERTY MAP

0 100 200
SCALE IN FEET

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

CLERMONT COUNTY
CLE. 275 - 6.68
LIMITED ACCESS
R/W PLANS

601
638

4
41

Military Survey Line _____
Property Line _____
Lot Line _____
Existing R/W ___ ___ ___
Dwelling Unit (unless otherwise noted)
Res. Garage
Commercial Building

UTILITY OWNERS	
TYPE	NAME & ADDRESS
Telephone	Cincinnati & Suburban Bell Telephone Co. 225 E. Fourth Street, Cincinnati, Ohio
Gas & Electric	Cincinnati Gas & Electric Co. Fourth & Main Streets Cincinnati, Ohio
Telephone Cable	American Telephone & Telegraph Co. 1014 Vine Street Cincinnati, Ohio
Water	Pierce - Union - Batavia Water System 3685 Lewis Rd. Amelia 2, Ohio
Sanitary Sewer	Clermont County 3685 Lewis Rd. Amelia 2, Ohio
Traffic Control	State of Ohio State of Ohio Middletown, Ohio

EAST FORK OF THE LITTLE MIAMI RIVER

East Fork of the Little Miami River

N&W R/W

ROUND BOTTOM RD.

SURVEY I.R. 275

CLAY NO. 6 HARDIN NO. 8

234 ERTEL

Area East of N. & W. Railway = 14.19 Ac.

Area East of N. & W. Railway = 40.23 Ac.

Area East of N. & W. Railway = 44.09 Ac.

Area East of N. & W. Railway = 13.01 Ac.

NORFOLK & WESTERN RAILWAY CO.

T.O.RD. NO. 106 ROUND BOTTOM ROAD

Sheet No. 16

Sheet No. 40

Sheet No. 18

Sheet No. 14

Sheet No. 15

Sheet No. 17

Sheet No. 19

236 B LANCASTER

236 D DAVIS

236 C

236 A

Temporary Easement — Utility Easement

O'BANNION MS 272

HARDIN MS 1935

226 DAVIS

225 DAVIS

225 A

231

232

233 ERNST

234 ERTEL

235 ERNST

236 DAVIS

237 REED

Barn

Temporary Easement

GORDON

L&N R/W CO.

NORFOLK & WESTERN RAILWAY CO.

PRINCE

(L.L.)

LA R/W

RAMP "V"

RAMP "W"

RAMP "T"

RAMP "U"

SURVEY I.R. 275
S 4° 36' 55" E

380

390

392

387

88

81

385

370

360

350

300

S 43° 53' 54" E
400.50' to the ℄ of Beechwood Rd. ((T.O. RD NO 8))

MATCH LINE STA. 400+00

CLAY MS. GR4 HARDIN M.S. 1935

BEGIN R/W ACQUISITION
STA. 347+23.56

CLE. 275 - 5.61
STA. 353+00.00

BEGIN PROJECT
CLE. 275 - 6.68
STA. 353+00.00

I-275-2(9)

COMPLETION DATE NOV. 17, 1969		
Rev.	Date	Description

4
41

PROPERTY MAP

0 100 200
SCALE IN FEET

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

CLERMONT COUNTY
CLE. 275 - 6.68
LIMITED ACCESS
R/W PLANS

602
633

5
41

O'BANNION M.S. 2721
HARDIN M.S. 11935
ROUND BOTTOM RD
MAIN R.R.
SELDON M.S. 676
O'BANNION M.S. 2721
O'BANNION M.S. 2721
CARRINGTON M.S. 2434
237
410
420
℄ SURVEY I.R. 275
Channel Easement
O'BANNION M.S. 2721
HARDIN M.S. 11935
REED
LA R/W
Sheet No. 20
Sheet No. 18
MATCH LINE STA. 400+00
Existing 100' Easement B12 Pg 269 (CINCINNATI GAS & ELECTRIC CO.)
Sheet No. 21
Sheet No. 19
Sheet No. 22
Sheet No. 23
238
THE MILFORD NOVITIATE OF THE SACRED HEART
(LL)
SELDON M.S. 676
HERON M.S. 3814
O'BANNION M.S. 2721
HERON M.S. 3814
CARRINGTON M.S. 2434
239
BARGS SALT RUN ROAD
430
450
460
℄ SURVEY I.R. 275
O'BANNION M.S. 2721
CARRINGTON M.S. 2434
℄ GAS LINE
240
BRODERSEN
BARG
Shed
Temporary Easement
(TWP. RD. NO. 211) BARGS SALT RUN ROAD
FENKER
242
244
CLEPHANE
243
(EL)
S 33° 01' 15" W
MATCH LINE STA. 460+00
Temporary Easement
SCHAFER
241
(LL)
Temporary Easement
MARTIN

COMPLETION DATE NOV. 17, 1969		
Rev.	Date	Description

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PROPERTY MAP

0 100 200
SCALE IN FEET

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS

603
G-35

G
41

RUMPKE RD.

HERON M.S. 3814
CARRINGTON M.S. 2434

S 84°33'45"E

Exist. Easement, Bk. 7, Pg. 241 (American Telephone & Telegraph Co.)

RUMPKE ROAD

500 ℄ SURVEY I.R. 275

244 MARTIN

245 JONES

247 RUMPKE (ETAL)

248 MILLER

250 DREIDAME TR.

252 BEETS
253 JOHNSON
254 RILEY
255 WHERRITT

DIANE DRIVE

MELODY LANE

DREIDAME "TR"
250A

KLUBA
251

MATCH LINE STA 460+00

BARGS SALT RUN ROAD (TWP RD NO. 211)

LA R/W

R/W

Temporary Easement

CARRINGTON M.S. 2434
MATTHEW M.S. 1138

470

480

490

500 ℄ SURVEY I.R. 275
S 15°34'45" W

510

520

MATCH LINE STA 520+00

244

(L.L.)

Sheet No. 24

Sheet No. 25

S 49°39'30" E
394.33'

246 L.C. HOMES INC.

OLD BARGS SALT RUN ROAD

45' R/W

Temporary Easement

Underground Telephone Cable

247

248 (L.L.)

Exist. 20' Easement B 23 Pg. 265 (CINCINNATI GAS & ELECTRIC CO.)

249 BYRD

Sheet No. 26

Sheet No. 27

Sheet No. 28

257 BD. OF EDUCATION

HOLMAN (ETAL)
258

EDWILLA DRIVE

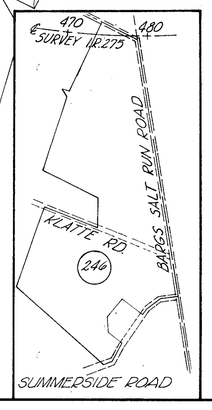
Exist. 100' Easement B 15 Pg. 525 (CINCINNATI GAS & ELECTRIC CO.)

S 34°33'45" E
1227.75'

S 34°33'45" E
1333.01'

DIAM. 336.00'45"E to Klatte Rd.

TOWNSHIP ROAD NO. 229



COMPLETION DATE	NOV. 17, 1969	
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PROPERTY MAP

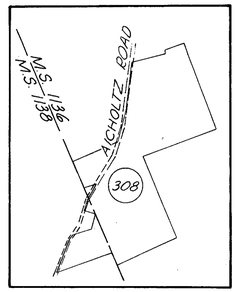
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SCALE IN FEET

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

CLERMONT COUNTY
CLE 275-6.68
LIMITED ACCESS
R/W PLANS

604
6.38

7
41



306 RUSSO
308 AICHOLTZ
310 SCHMIDT
313 HILL
314 HARGIS
315 GOEDDE

END PROJECT CLE 275-6.68 STA 579+87.60
CLE 275-10.89 STA 579+87.60
I-275-2(9)
I-275-2(9)

MATCH LINE STA 520+00

MATCH LINE STA 580+00

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PROPERTY MAP

0 100 200
SCALE IN FEET

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS

60.5
23.3

8
41

MATCH LINE STA. 520+00

MATCH LINE STA. 580+00

TEMPORARY ROAD

SURVEY I.R. 275

S 29°19'20" W

RAMP "G"

RAMP "K"

RAMP "F"

RAMP "J"

LA R/W

Chicken house

Shed

Barn

Firehouse

Temporary Easement

Temporary Easement (L.L.)

Sheet No. 28

Sheet No. 32

Sheet No. 33

Sheet No. 34

Sheet No. 35

Sheet No. 37

VERMONA DR (TWP. RD. NO. 517)

(CO. RD. NO. 134) SUMMERSIDE ROAD

CINCINNATI BATAVIA PIKE

S 65°55'30" E 75'

S 65°23'30" W 70'

Church

Church

Exist. Sewer Easement
Temporary Easement
Channel Easement
Sewer Easement

Private Easement

MATTNEW MOSLEY

M.S. 1138
M.S. 1115

END R/W ACQUISITION
STA. 579+53.52

END PROJECT
CLE. 275-6.68
STA. 579+87.60

CLE. 275-10.89
STA. 579+87.60

I-275-2(9) | I-275-2(9)

FINNEY TRAIL (TWP RD NO 878)

FOREST TRAILS (TWP RD NO 879)

SONNY LANE (TWP RD NO 883)

(251) KLUBA
(258) HOLMAN (ET AL)
(258A) NORTH UNION TOWNSHIP VOLUNTEER FIRE DEPARTMENT
(258B) PLUM
(259) CRULL
(260) TIEMEYER COUPON & PRINTING INC.
(262) AICHOLTZ
(263) FOOS
(264) THE SULLIVAN PRINTING WORKS COMPANY
(267) AICHOLTZ
(270) LEAMAN
(271) TAYLOR
(272) CAMPBELL
(273) KLUBA
(274) BRASHEARS
(275) WILKEN
(276) MOREHOUSE
(277) BROOKS
(278) FRALEY
(279) ALBATROS ENTERPRISE INC.
(280) THE BIBLE BAPTIST CHURCH INC.
(281) MARATHON OIL COMPANY
(282) DAVIS
(282A) MAYCOX
(282B) RUST
(283) DAVIDSON
(284) DENNISTON
(285) CLERMONT COUNTY, OHIO
(286) DEFLURIN
(287) KAVANAGH
(287A) KAVANAGH
(288) PEACOCK
(289) BLACK
(290) COBURN
(290A) RUST
(290B) RUST
(290C) CHADWELL
(291) CAMPBELL
(292) PAGE
(293) MAHAFFEY
(294) DENMAN
(295) YATES
(296) McAFEE
(297) MADISON BUILDING ASSOCIATION
(298) HERRMANN
(299) BERRY
(300) HAWKINS
(311) JACOBS

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PROPERTY MAP

0 100 200
SCALE IN FEET

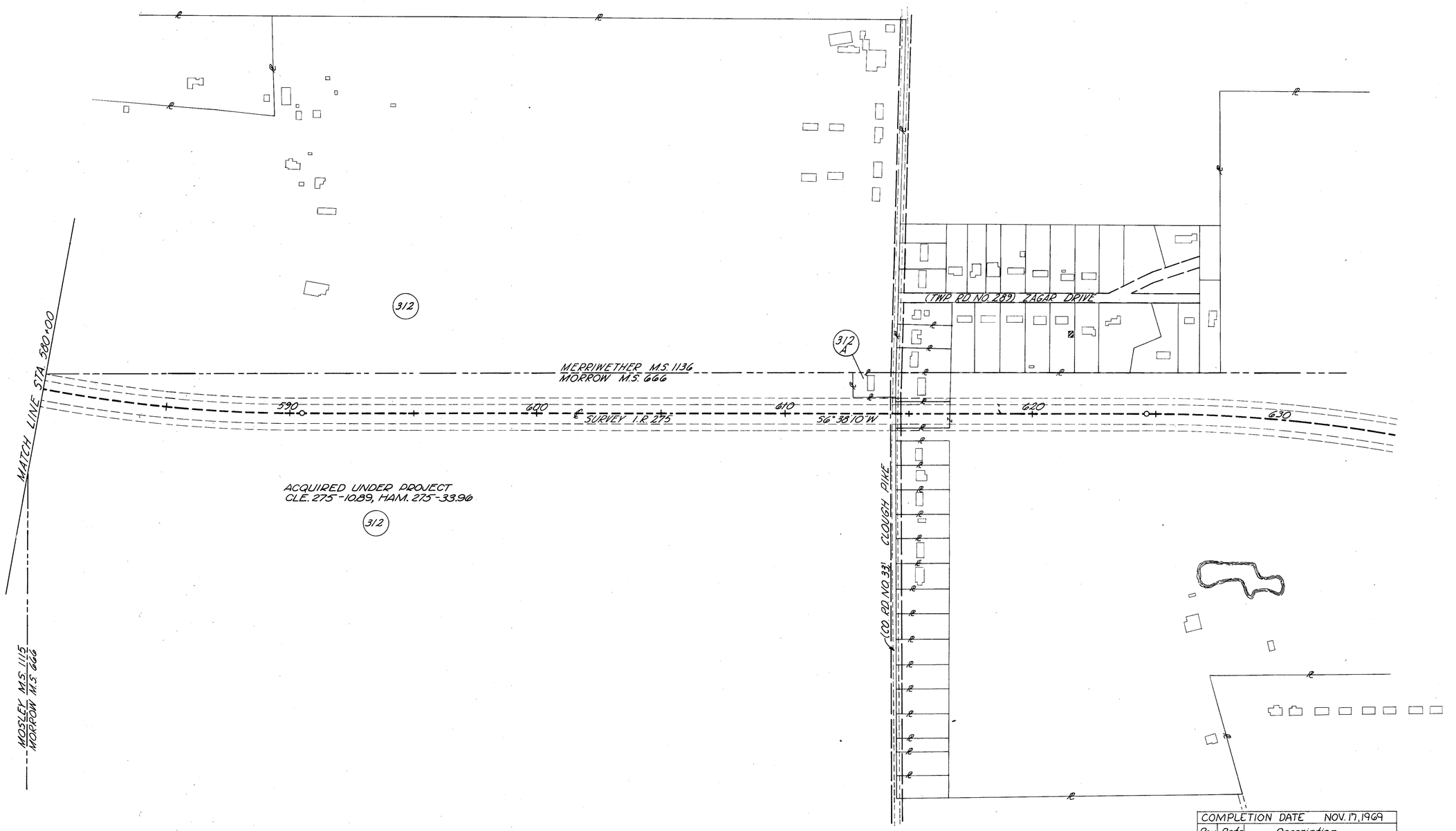
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FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

606
6.38

CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS

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COMPLETION DATE NOV. 17, 1969		
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Note: TYPE FUNDS are "I"

* Parcels Shown at end of Summary

NO. OF STRUCTURAL PARCELS_____16

NO. OF OWNERS_____73

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS

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PARCEL NO.	OWNER	RECORDED		RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	TO BE ACQUIRED		NET RESIDUE		SHEET NO.	TYPE FUND	REMARKS
		BOOK	PAGE					LAND	BLDG	LEFT	RIGHT			
231-WL1	Florence R. Prince	255	31	27.95 Ac.±	0.90 Ac.	3.22 Ac.	0.16 Ac.	3.06 Ac.		5.96 Ac.	13.94 Ac.		I	Record Area West of N. & W. Railway
231-WL2		295	292			4.09 Ac.	———	4.09 Ac.					I	
		418	147											
		428	491											
		428	516											
232-WL	John & Nan Chase Gordon	302	200	3.39 Ac.	0.03 Ac.	1.91 Ac.	———	1.91 Ac.		1.38 Ac.	0.07Ac(LL)		I	
233-WL	Robert H. & Irma L. Ernst	380	570	26.36 Ac.±	0.85 Ac.	3.72 Ac.	———	3.72 Ac.		3.61 Ac.	18.18Ac(LL)		I	Record Area West of N. & W. Railway
233-T						0.04 Ac.	———	0.04 Ac.					I	Ditch Outlet
234-WL	Bernice T. Ertel	287	274	110.43 Ac.±	1.43 Ac.	22.28 Ac.	———	22.28 Ac.		23.20 Ac.	63.52Ac(LL)		I	Record Area West of N. & W. Railway
235-WL	Robert H. & Irma L. Ernst	380	570	25.93 Ac.±	0.52 Ac.	9.61 Ac.	———	9.61 Ac.		7.34 Ac.	8.46Ac(LL)		I	Record Area West of N. & W. Railway
236-WL	Mary & Sara Mae Davis	309	87	76.80 Ac.	0.51 Ac.	23.15 Ac.	———	23.15 Ac.		16.39 Ac.	36.75Ac(LL)		I	
236 U						0.23 Ac.	0.01 Ac.	0.22 Ac.					I	To be acquired in the name of the State of Ohio
236 T						0.68 Ac.	———	0.68 Ac.					I	Construct Water Line, Electrical Line and Pole Line
236A-U	Norfolk & Western Railway Co.	142	237			5,079 Sq.Ft.	———	5,079 Sq.Ft.					I	To be acquired in the name of the State of Ohio
236A-T		201	154			7,485 Sq.Ft.	———	7,485 Sq.Ft.					I	Construct Water Line, Electrical Line and Pole Line
236B-WD	Fred & Margaret Lancaster	410	55	7.98 Ac.		0.06 Ac.	———	0.06 Ac.		7.92 Ac.	———		I	Location of Rest Area Well
236B-U						0.48 Ac.	———	0.48 Ac.					I	To be acquired in the name of the State of Ohio
236B-T						0.23 Ac.	———	0.23 Ac.					I	Construct Water Line, Electrical Line and Pole Line
236B-P						0.70 Ac.	———	0.70 Ac.					I	Protective Easement for Well
* 236D-P	Herman W. Davis			7.25 Ac.		0.20 Ac.	———	0.20 Ac.		7.25 Ac.	———		I	Protective Easement for Well
237-WL	Wilanelle Reed	298	115	101.92 Ac.	1.02 Ac.	30.00 Ac.	———	30.00 Ac.		86.86 Ac.	44.04 Ac.	18, 19, 20, 21 & 22	I	
237-X						0.53 Ac.	———	0.53 Ac.					I	
238	The Milford Novitiate of the Sacred Heart	255	213											Not Required
		243	121											
239-WL	Fred H. & Helen Barg	256	39	144.19 Ac.	1.51 Ac.	11.44 Ac.	———	11.44 Ac.	Yes	118.11 Ac.	13.13 Ac. (L.L.)	22, 23 & 24	I	2 Sty. Frame Res., 1 Sty Frame Shed, Privy, 1 Sty. Frame Garage.
239-T		286	97			0.02 Ac.	———	0.02 Ac.					I	Removal of 1 Sty. Frame Garage
240-WL	Reuter W. & Elsa J. Brodersen	239	30	55.67 Ac.	0.53 Ac.	9.88 Ac.	———	9.88 Ac.	Yes	1.41 Ac.	43.85Ac(L.L.)	22 & 23	I	2-1 Sty. Frame Sheds
240-T						0.11 Ac.	———	0.11 Ac.					I	Ditch Outlet
241	Anna Schafer	430	550										I	Not Required
242	Louise Fenker	412	17										I	Not Required
243-WL	Arthur F. & Anna L. Clephane	320	210	0.51 Ac.	0.03 Ac.	0.33 Ac.	———	0.33 Ac.	Yes	———	———	24	I	1 Sty. Frame Res.
243-EL						0.18 Ac.	0.03 Ac.	0.15 Ac.					5	
244-WL	Mildred E. Martin	276	480	75.00 Ac.	1.09 Ac.	11.20 Ac.	———	11.20 Ac.		45.00 Ac.	17.13 Ac. (L.L.)	24 & 25	I	
244						0.87 Ac.	0.29 Ac.	0.58 Ac.					I	
244-T						0.02 Ac.	———	0.02 Ac.					I	Ditch Outlet
* 245-WL	Dallas L. & Ava S. Jones	365	209	4.68 Ac.	0.19 Ac.	0.66 Ac.	0.13 Ac.	0.53 Ac.		3.96 Ac.	———	25	I	
246-WL	L.C. Homes, Inc.	360	118	86.47 Ac.	2.20 Ac.	3.42 Ac.	0.20 Ac.	3.22 Ac.		———	78.99 Ac.	25 & 26	I	
246-A		300	120			2.09 Ac.	0.08 Ac.	2.01 Ac.					I	
246-B						0.07 Ac.	0.02 Ac.	0.05 Ac.					I	
247-WL	Edward C. Rumpke (ETAL)	404	378	93.95 Ac.	0.40 Ac.	12.71 Ac.	0.04 Ac.	12.67 Ac.		62.05 Ac.	18.70 Ac.	25, 26 & 27	I	
247						0.14 Ac.	0.07 Ac.	0.07 Ac.					I	
247-T						0.15 Ac.	———	0.15 Ac.					I	Ditch Inlet
248-WL	William H. Miller	246	590	214.10 Ac.	2.16 Ac.	7.51 Ac.	———	7.51 Ac.		203.26 Ac.	1.17 Ac. (L.L.)	27	I	64.25Ac. West of Rumpke Rd. Includes 0.59Ac. P.R.O.
		234	240											
		271	161											
249	Bennie & Mae Byrd	249	470											Not Required
250	Robert F. Dreidame (Trustee)	321	165											Not Required
250 A	Robert F. Dreidame (Trustee)	321	165											Not Required
251-WL	Alberta Kluba	351	244	30.22 Ac.	0.37 Ac.	15.51 Ac.	0.05 Ac.	15.46 Ac.		10.21 Ac.	3.80 Ac(LL)	27, 28, 29 & 31	I	
251						0.70 Ac.	0.32 Ac.	0.38 Ac.					I	
251-T1						0.19 Ac.	———	0.19 Ac.					I	Ditch Outlet
251-T2						0.07 Ac.	———	0.07 Ac.					I	Construct a portion of a Private Drive
251-X						0.18 Ac.	———	0.18 Ac.					I	

COMPLETION DATE NOV. 17, 1969

Rev	Date	Description
R.P.	11-24-69	Remarks on 236B-P & 236D-P
R.P.	11-24-69	Added Remarks to 248WL
JTC.	11-25-69	Rev. T.B.A. PAR 236-B-P

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SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

608
639

CLERMONT COUNTY
CLE 275-6.68
LIMITED ACCESS
R/W PLANS

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PARCEL NO.	OWNER	RECORDED BOOK	RECORDED PAGE	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	TO BE ACQUIRED LAND	TO BE ACQUIRED BLDG	NET RESIDUE LEFT	NET RESIDUE RIGHT	SHEET NO.	TYPE FUND	REMARKS
252	Clifton H. & Leona S. Beets	332	279											Not Required
253	Alice R. Johnson	335	560											Not Required
254	Leon & Dorothy E. Riley	361	510											Not Required
255	James W. & Dorothy M. Wherritt	330	332											Not Required
256	Ben Siegel & The Summit Country Day School Inc.	461 461	494 496	1.79 Ac.	0.18 Ac.	0.21 Ac.	0.15 Ac.	0.06 Ac.		1.55 Ac.	———	29	I	Residue left of ℄ of Cincinnati Batavia Pike
257	Board of Education, Glen Este-Mt Carmel Local School District	324	408											Not Required
258 WL 258 258-T	Glen W. Holman ET AL	469	176	27.18 Ac.	.031 Ac.	3.31 Ac. 0.22 Ac. 0.04 Ac.	0.18 Ac. 0.13 Ac. ———	3.13 Ac. 0.09 Ac. 0.04 Ac.	Yes	———	23.65 Ac.	28, 29 & 32	I I I	2 Sty. Frame Residence, 1 Sty. Shingle Business 1½ Sty. Fr. Barn, 1 Sty. Fr. Shed, 1 Sty. Fr. Chicken House Construct a portion of a private drive
258A-T	North Union Township Volunteer Fire Department	340 429	582 97	1.09 Ac.	0.06 Ac.	0.08 Ac.	———	0.08 Ac.		1.03 Ac.	———	32	I	Construct a Private Drive
258B	Joseph A. Plum	414	233											Not Required
259 WL 259-A 259-B 259-T1 259-T2 259-T3	Dorothy Crull	254 388	319 586	94.65 Ac.	10.48 Ac.	37.92 Ac. 1.02 Ac. 0.11 Ac. 0.96 Ac. 0.10 Ac. 0.07 Ac.	9.67 Ac. 0.48 Ac. 0.07 Ac. ——— ——— ———	28.25 Ac. 0.54 Ac. 0.04 Ac. 0.96 Ac. 0.10 Ac. 0.07 Ac.	Yes	53.26 Ac.	2.08 Ac.	29, 30, 31, 32 & 36	I I I I I I	2½ Sty. Fr. Residence, 2½ Sty. Fr. & Conc. Barn, 1½ Sty. Barn, 1 Sty. Fr. Shed, 2 Corn Cribs, 4 Animal Shelters. (Residue right includes 1.91 Ac. L.L.) Temporary Road Temporary Road Ditch Outlet
260-WL 260 260-T	Tiemeyer Coupon & Printing Inc.	444	473	1.75 Ac.	0.16 Ac.	0.07 Ac. 0.09 Ac. 0.18 Ac.	——— 0.07 Ac. ———	0.07 Ac. 0.02 Ac. 0.18 Ac.		———	1.50 Ac.	32	I I I	Temporary Road, Construct Portion of Private Drive
261-WL	O.M.N.I. Development Company	432	531	26.01± Ac.	2.70 Ac.	6.26 Ac.	1.19 Ac.	5.07 Ac.		———	18.24 Ac.	30, 31 & 36	I	Residue Rt of ℄ of S.R.32
262-WL 262-EL	Calvin D. & Dorothy B. Aicholtz	409	152	6.89 Ac.	0.10 Ac.	0.36 Ac. 0.53 Ac.	0.10 Ac. ———	0.20 Ac. 0.53 Ac.		———	———	30, 33 & 34	I S	
263-WL	Andy Foos	196	301	32.72 Ac.	4.43 Ac.	23.29 Ac.	3.80 Ac.	19.49 Ac.		0.34 Ac.	2.46 Ac.	30, 31, 33, 34 & 35	I	Residue Rt & Lt of ℄ of S.R.32
264-WL	The Sullivan Printing Works Co.	415	393 & 395	7.71 Ac.	1.22 Ac.	2.17 Ac.	1.06 Ac.	1.11 Ac.		———	5.38 Ac.	33 & 35	I	
265-WL	Howard & Janet Taylor	406	558	22,800± S.F.	1,600 S.F.	1,960 S.F.	———	1,960 S.F.		19,232 S.F.	———	31	I	
265 A	Sarah Ruth Johnson	445	40											Not Required
266-WL 266 WD 266-T	Calvin D Aicholtz	446	502	22,800± S.F.	1,600 S.F.	15,158 S.F. 3,864 S.F. 3,778 S.F.	359 S.F. 1,241 S.F. ———	14,799 S.F. 2,623 S.F. 3,778 S.F.	Yes	———	———	31	I I S	1 Sty. Fr. Residence, Playhouse.
267-WL	George F. & Calvin D Aicholtz	296	351	34.94 Ac.	0.05 Ac.	9.97 Ac.	0.02 Ac.	9.95 Ac.		21.66 Ac.	3.28 Ac. (L.L.)	31, 34 & 37	I	
268-WL	Calvin D Aicholtz	312	87	22,500± S.F.	2,000 S.F.	4,924 S.F.	493 S.F.	4,431 S.F.		16,069 S.F.	———	31	I	
269-WL	Mitchel E. & Jessie Rammel	321	100	22,500± S.F.	2,000 S.F.	22,500 S.F.	2,000 S.F.	20,500 S.F.	Yes	———	———	33	I	1 Sty. Fr. Residence
270-WL	Robert D. & Bonnie B. Leaman	398	9	22,500± S.F.	2,000 S.F.	22,500 S.F.	2,000 S.F.	20,500 S.F.	Yes	———	———	33 & 34	I	1 Sty. Brick Residence, Playhouse
271-WL	Glenn Orville & Patricia Ann Taylor	366	362	22,514 ± S.F.	2,014 S.F.	22,514 S.F.	2,014 S.F.	20,500 S.F.	Yes	———	———	34	I	1 Sty. Brick Residence
272-WL	Minta Campbell	303	407	2.68 Ac.	0.15 Ac.	2.64 Ac.	0.11 Ac.	2.53 Ac.	Yes	———	———	33 & 34	I	1½ Sty. Brick Residence & Garage
273-WL	Harry M. & Mildred T. Kluba	291 326	317 520	1.42 Ac.	0.06 Ac.	1.36 Ac.	———	1.36 Ac.	Yes	———	———	34	I	1 Sty. Brick Residence, 1 Sty. Frame Shed
274-WL	E.C. Brashears	454	93	33,977 ± S.F.	4,792 S.F.	23,688 S.F.		23,688 S.F.	Yes	———	5,497 S.F.	34	I	
275	Joseph & Eleanor Wilken	284	325											Not Required
276-WL 276-T	Robert E. & Martha L. Morehouse	426	35	30,274 ± S.F.	2,050 S.F.	14,871 S.F. 1,772 S.F.	2,050 S.F. ———	12,821 S.F. 1,772 S.F.	Yes	———	15,403 S.F. (L.L.)	34	I I	1 Sty. Brick Residence & Garage Building Removal
277-WL 277-T	Jesse R. & Gracie Brooks	456	528	34,456± S.F.	2,225 S.F.	1,308 S.F. 3,350 S.F.	1,142 S.F. ———	166 S.F. 3,350 S.F.		———	32,065 S.F.	34	I I	Construct a Portion of a Private Drive
278 278-T	Monroe R & Laura Fraley	368	88	53,709 ± S.F.	3,250 S.F.	2,557 S.F. 1,600 S.F.	975 S.F. ———	1,582 S.F. 1,600 S.F.		———	48,877 S.F.	34	I I	Construct a Portion of a Private Drive
279	Albatros Enterprize, Inc	467	640											Not Required
280 WL	The Bible Baptist Church, Inc.	346	387	5.23 Ac.	2.19 Ac.	2.24 Ac.	1.89 Ac.	0.35 Ac.		2.69 Ac.	———	35	I	Residue Lt of ℄ of S.R.32
281-WL	Marathon Oil Company	475	555	34,539± S.F.	5,190 S.F.	1,085 S.F.	———	1,085 S.F.		28,264 S.F.	———	35	I	Residue Lt of ℄ of S.R.32
282-WL 282 282-EL	Willie & Gertrude Davis	430	67	18,459 ± S.F.	6,244 S.F.	10,234 S.F. 3,819 S.F. 4,406 S.F.	4,125 S.F. 2,119 S.F. ———	6,109 S.F. 1,700 S.F. 4,406 S.F.	Yes	———	———	35	I I S	1 Sty. Fr. Residence

COMPLETION DATE NOV. 17, 1969

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SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

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CLERMONT COUNTY
CLE. 275 - 6.68
LIMITED ACCESS
R/W PLANS

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PARCEL NO.	OWNER	RECORDED BOOK	RECORDED PAGE	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	TO BE ACQUIRED LAND	TO BE ACQUIRED BLDG	NET RESIDUE LEFT	NET RESIDUE RIGHT	SHEET NO.	TYPE FUND	REMARKS
282A WL	Ethel A. Maycox	302	311	21,251 ±S.F.	21,251 S.F.	21,251 S.F.	21,251 S.F.					35	I	
282B WL	Leleah D. Rust	241	590	2,955±S.F.	2,091 S.F.	2,505 S.F.	2,091 S.F.	414 S.F.		———	450 S.F.	35	I	
283 WL	C. Monroe Davidson	328	344	6,519 S.F.	6519 S.F.	6,519 S.F.	6,519 S.F.	———		———	———	35	I	
284 WL	Ray W. & Wilma L. Denniston	319	379	39,204±S.F.	6,076 S.F.	4,026 S.F.	3,251 S.F.	1,375 S.F.		31,753 S.F.	———	35	I	Residue Lt of ℄ of S.R.32
285 WL	Clermont County, Ohio	419	179	17,505±S.F.	———	4,226 S.F.	———	4,226 S.F.		13,279 S.F.		35	I	Residue Lt. of ℄ of S.R.32
286 WL	Herbert Frank DeFlurin & Naomi Marie DeFlurin	259	364	53,357±S.F.	52,107 S.F.	53,357 S.F.	52,107 S.F.	1,250 S.F.		———	———	35	I	
287	William A. & Marjorie B. Kavanagh	308	432											Not Required
287A	Marjorie B. Kavanagh	398	548											Not Required
288 WL	Howard M. & Rosemarie S. Peacock	472	406	31,959±S.F.	4,715 S.F.	2,717 S.F.	———	2,717 S.F.		———	24,452 S.F.	35	I	
288						124 S.F.	49 S.F.	75 S.F.					I	
289 WL	David Albert Black & Darlene Kay Black	420	94	35,328±S.F.	3,676 S.F.	9,104 S.F.	———	9,104 S.F.		———	20,873 S.F.	35	I	
289						3,188 S.F.	1,513 S.F.	1,675 S.F.					I	
290	Estil F. & Geneva Coburn	463	658	19,901±S.F.	1,000 S.F.	8,140 S.F.	———	8,140 S.F.		181 S.F.	10,580 S.F.	35	I	Residue Lt & Rt of ℄ of Rust Lane Extension
290A	Leleah D. Rust	241	590	19,924±S.F.	1,000 S.F.	10,746 S.F.	483 S.F.	10,263 S.F.		1,174 S.F.	7,487 S.F.	35	I	Residue Lt & Rt of ℄ of Rust Lane Extension
290B	William S. & Mary L. Rust	427	182	19,947±S.F.	1,000 S.F.	5,958 S.F.	1,000 S.F.	4,958 S.F.		———	13,989 S.F.	35	I	Residue Rt of ℄ of Rust Lane Extension
290C	Floyd & Leila Chadwell	477	19	20,420±S.F.	995 S.F.	1,347 S.F.	477 S.F.	870 S.F.		———	18,555 S.F.	35	I	Residue Rt of ℄ of Rust Lane Extension
291	James E. & Rosa S. Campbell	357 456 466	208 109 587	2.06 Ac.	———	0.12 Ac.	———	0.12 Ac.		———	1.94 Ac.	35	I	Residue Rt of ℄ of Rust Lane Extension
292 WL	Dorothy W. Page	396	319	37,341±S.F.	9,792 S.F.	14,442 S.F.	9,792 S.F.	4,650 S.F.		———	22,537 S.F.	35	I	
292		312	454,456,458			362 S.F.	———	362 S.F.					I	
* 293 WL	Paul & Dorothy M. Mahaffey	359	42	17,943±S.F.	2,045 S.F.	806 S.F.	806 S.F.	———		———	15,898 S.F.	35	I	T.B.A. Includes 124 Sq.Ft. of Existing Sewer Easement.
293 T						1,448 S.F.	———	1,448 S.F.					I	Construct a portion of a drainage structure.
* 294	Norma P. & Daniel M. Denman	262	320	1.02 Ac.	0.05 Ac.	0.28 Ac.	———	0.28 Ac.		0.46 Ac.	0.23 Ac.	35	I	Residue Lt & Rt of ℄ of Rust Lane Extension
294 T						0.04 Ac.	———	0.04 Ac.					I	T.B.A. Includes 0.01 Ac. of Existing Sewer Easement. Construct a portion of a drainage structure
295	Iva Yates	456	93	17,626±S.F.	1,450 S.F.	8,066 S.F.	123 S.F.	7,943 S.F.		8,233 S.F.	———	35	I	Residue Lt of ℄ of Rust Lane Extension
295 T						681 S.F.	———	681 S.F.	Yes				I	Building Removal, Fr. Garage
* 296	V.C. & Icie McAfee	241	234	38,313±S.F.	2,615 S.F.	11,364 S.F.	1,659 S.F.	9,705 S.F.	Yes	———	25,993 S.F.	35	I	Residue Rt of ℄ of Rust Lane Extension. Conc. Blk. Shed
297 WL	Madison Building Association	440	379	25,266 S.F.	11,587 S.F.	19,690 S.F.	9,383 S.F.	10,307 S.F.	Yes	———	———	35	I	1 Sty. Br. Residence.
297						3,576 S.F.	2,204 S.F.	3,372 S.F.					I	
298 WL	William P. & Bernice E. Herrmann	439	549	25,225±S.F.	1,546 S.F.	13,589 S.F.	———	13,589 S.F.				35	I	
298 T						350 S.F.	———	350 S.F.		———	10,090 S.F.		I	Construct Roadway Slopes
299 WL	Glenn & Mildred Berry	432	225	25,184±S.F.	1,546 S.F.	7,631 S.F.	———	7,631 S.F.		———	16,007 S.F.	35	I	
300 WL	Mary Hawkins	409	393	25,143 ±S.F.	1,546 S.F.	2,542 S.F.	———	2,542 S.F.		———	21,055 S.F.	35	I	
		454	151											
301	Elmer H. & Charlene Hathorn	283	407											Not Required
		413	285											
302 WL	The Mt Carmel-Glen Este Boosters, Inc.	432	301	20.57 Ac.	0.56 Ac.	0.32 Ac.	0.31 Ac.	0.01 Ac.		20.00 Ac.		36	I	
303	TACAN INC.	476	470	154.57 Ac.	6.05 Ac.	1.05 Ac.	———	1.05 Ac.		3.56 Ac.	143.91 Ac.	36,39	I	Residue Lt. & Rt. of Relocated Aicholtz Road
303 T1		476	472			0.33 Ac.	———	0.33 Ac.					I	Construct Roadway Slopes
303 T2						0.42 Ac.	———	0.42 Ac.					I	Construct Roadway Slopes
304 WL	Robert Becht	463	627	7.47 Ac.	———	0.30 Ac.	———	0.30 Ac.		7.17 Ac.	———	36	I	
		463	562											
305 A	Harold Flannery "Tr."	473	54	10.10 Ac.	0.03 Ac.	0.02 Ac.	0.01 Ac.	0.01 Ac.		5.00 Ac.	3.72 Ac.	38,39	I	Residue Lt. & Rt. of Relocated Aicholtz Road
305 B						1.34 Ac.	———	1.34 Ac.					I	
305 T1						0.01 Ac.	———	0.01 Ac.					I	Construct Roadway Slopes
305 T2						0.42 Ac.	———	0.42 Ac.					I	Construct Roadway Slopes
305 T3						0.31 Ac.	———	0.31 Ac.					I	Construct Roadway Slopes
306	Daniel T. & Wanda M. Russo	400	402	54,372±S.F.	5,531 S.F.	16,840 S.F.	5,531 S.F.	11,309 S.F.		3,033 S.F.	34,499 S.F.	38	I	Residue Lt. & Rt. of Relocated Aicholtz Rd.
306 X						4,859 S.F.	———	4,859 S.F.					I	
306 T1						3,033 S.F.	———	3,033 S.F.					I	Construct Roadway Slopes
306 T2						1,849 S.F.	———	1,849 S.F.					I	Construct Roadway Slopes
307	OMNI Development Co. Inc.	444	478											Not Required
308	Calvin D. & Dorothy B. Aicholtz	453	115											Not Required
309														Not Used

COMPLETION DATE NOV. 17, 1969

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SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

CLERMONT COUNTY
CLE. 275-G.6.8
LIMITED ACCESS
R/W PLANS

610 / 638

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	PARCEL NO.	OWNER	RECORDED BOOK	RECORDED PAGE	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	TO BE ACQUIRED LAND	TO BE ACQUIRED BLDG.	NET RESIDUE LEFT	NET RESIDUE RIGHT	SHEET NO.	TYPE FUND	REMARKS
*	310	John J. & Ruth Ann Schmidt	473	283	25,544± S.F.	2,891 S.F.	4,474 S.F.	2,616 S.F.	1,858 S.F.		20,795 S.F.	———	38	1	Residue Lt. of ℄ of Relocated Aicholtz Road
	311 WL	Stuart H. Jacobs	438	506	500 Ac.	———	1.93 Ac.	———	1.93 Ac.		———	48.07 Ac.	37	1	
	312	Acquired Under Project CLE. 275-33.96													
*	245-T	Dallas L. & Ava S. Jones					0.01 Ac.	———	0.01 Ac.					1	Construct a portion of a Private Drive.
*	236 C	P.R.O. Round Bottom Rd. (Co. Rd. No. 106)												1	
*	296-T	V.C. & Icie McAfee					755 Sq. Ft.	———	755 Sq. Ft.					1	Building Removal
*	293-S	Paul & Dorothy M. Mahaffey					775 Sq. Ft.	———	775 Sq. Ft.					1	T.B.A. Includes 482 Sq. Ft. of Existing Sewer Easement
*	294-X	Norma P. & Daniel M. Denman					0.04 Ac.	———	0.04 Ac.					1	
	294-S						0.02 Ac.	———	0.02 Ac.					1	T.B.A. Includes 0.01 Ac. of Existing Sewer Easement
*	310-T	John J. & Ruth Ann Schmidt					2,333 S.F.	———	2,333 S.F.				38	1	Construct Roadway Slopes, & a Part of a Private Drive
	313-T	Mary Dorothy Hill	385	275	22,500 S.F.	2,000	3,280 S.F.	———	3,280 S.F.		20,500 S.F.	———	38	1	Constr. Roadway Slopes, & a Part of a Priv. Drive Residue Lt. of ℄ of Rel. Aicholtz Rd.
	314	Jewell B. & Geneva J. Hargis	352	296	22,500 S.F.	2,000	3,095 S.F.	1,999 S.F.	1,096 S.F.		19,404 S.F.	———	38	1	Residue Lt. of ℄ of Relocated Aicholtz Road
	314-T						1,809 S.F.	———	1,809 S.F.					1	Construct Roadway Slopes, & a Portion of a Private Drive
	315	Louis W. & Barbara A. Goedde	460	277											Not Required

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FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS

611
6.38

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Exist R/W
Exist R/W
2 Sty Frame Barn
Well
Wooded Area
JOHN GOEDON & NAN CHASE GORDON
232 WL T.B.A. = 1.91 Ac.
2 Sty Brick
2 Sty Frame 8.14
Asphalt
29.01'
N 78°52'20"E
+05.58
167.22'
Spike
54°10'09"E
285.56'
Future Prop. Constr. Limits
+91.42
165
Wooded Area
S15°04'07"W
89.07'
+75
135'
Gravel
T.V. Antenna
S 34°27'28" E
315.67'
Wood Rail
Barbed Wire
L A B/W
S6°27'17"E
467.32'
Wooded Area
N 8°00'48"E
+51.11
165'
+90.63
150
N 82°19'55"E
Woven Wire
Woven & 2 Strands Barbed Wire
233 WL
231 WL-1
232 WL
345 346 347 348 349 350 351 352 353 354 355 356 357 34°36'55"E 358 359
℄ SURVEY TR. 275
MATCH LINE STA. 360+00
CO. RD. NO. 1061
EDWARD BOTTOM ROAD
S 26°37'58" E
Stone Box 3.2' wide by 5.5' deep
Wooded Area
Woven Wire
Post
Woven Wire
205.32'
S9°49'05"E
231 WL-2
297.58'
187'
343.16'
N80°57'55"E
87.41'
Wooded Area
70.17'
+75
120'
L A B/W
281.47'
S7°41'34"W
105.17'
S23°49'04"E
(L.L.)
108.74
143.08'
Iron Pipe
111.60'
S10°44'12"E
Stake
417.63'
S0°11'32"W
333.84'
S4°36'55"E
Woven Wire
+82.84
180
NORFOLK & WESTERN RAILWAY
Exist R/W
S64°38'54"E
(300' Deed)
Exist R/W
M.S. 0+00
+24.93
160'
Spike
176.84'
S3°30'43"W
+00
185'
Future Prop. Constr. Limits
159.77'
S15°31'16"W
+50
240'
Gravel
1574 Ft.
171.17'
S25°58'13"E
+09.61
171.67'
Iron Bar
Post
Wooded Area
Wooded Area
Robert H. Ernst & Irma L. Ernst
233 WL T.B.A. = 3.72 Ac.
233 T T.B.A. = 0.04 Ac.
(L.L.)
3.98 Acres more or less
N 74°24'20"W
FLORENCE R. PRINCE
231 WL-1 T.B.A. = 3.06 Ac.
P.E.O. = 0.16 Ac.
Total = 3.22 Ac.
231 WL-2 T.B.A. = 4.09 Ac.
BEGIN R/W ACQUISITION
STA. 347+23.56
CLE. 275-561
STA. 353+00
BEGIN PROJECT

COMPLETION DATE NOV. 17, 1969		
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CLERMONT COUNTY
UNION TOWNSHIP
CLAY M.S. 674
SCALE: 1" = 50'

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R/W STA. 353 TO STA. 360

NOV 2 1 1969

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

612
6.83

CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS

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BERNICE T. EETEL
234 WL T.B.A. = 22.28 Ac.

ROBERT H. ERNST &
IRMA L. ERNST

CLAY M.S. NO. 674
HARDIN M.S. NO. 1935

Wooded Area

233 T

+75 195' N85°23'05"E 445.56'
+10 195' N85°23'05"E 439.96'
35.00'
+75 150.44'
+10 151.04'
35.01'
+35.84 162.51'

S5°36'55"E

95°35'50"E 438.20

℄ LA R/W

95°35'50"E 1604.39'

Construction Limits

Woven & 15½ Barbed Wire

Sta 374+75.00 I-275
Sta 374+75.00 Ramp "V"

℄ RAMP "V"

12°
9°11'37"
90°

MATCH LINE STA 360+00

361 362 363 364 374.32' 365 366 367 368 369 370 371 372 373 374 375

MATCH LINE STA 375+00

℄ SURVEY I.R.275

234 WL

233 WL

Wooded Area

90°

℄ RAMP "T"

Sta 367+75.00 I-275
= Sta 362+75.00 Ramp "T"

T1

12°

Wooded Area

Construction Limits

417.63' S0°11'32"W

154.42'

195.62' S33°47'49"E

+00 215'

+50 220'

(L.L.)

Woven & 15½ Barbed Wire

N5°23'05"E 1555.38' to N.W. Property Corner

LA R/W

790.77' S7°09'07"E

162.79' S6°00'16"W

+40 185'

Construction Limits

Wooded Area

RAMP "T"
CURVE DATA (T1)
P.I. = Sta. 370+52.02
Δ = 8°17'46" Rt.
D = 1°30'00"
R = 3819.72'
L = 553.07'
T = 277.02'
E = 10.03'
P.C. = Sta. 367+75.00
P.T. = Sta 373+28.07

COMPLETION DATE NOV. 17, 1968		
Rev.	Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
CLAY M.S. 674
HARDIN M.S. 1935
SCALE: 1" = 50'

15
41

R/W STA. 360 TO STA. 375

NOV 21 1968

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

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633

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CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS

For Continuation of Parcels 236-T and 236-U See Sheet No. 40

RAMP "V"
CURVE DATA
P.I. = Sta. 380+05.89
Δ = 4°36'55" Lt.
D = 1°00'00"
R = 5,729.58'
L = 461.53'
T = 230.89'
E = 4.65'
P.C. = Sta. 377+75.00
P.T. = Sta. 382+36.53

ROBERT H. ERNST &
IRMA L. ERNST
(235 WL) T.B.A. = 9.61 Ac.

MARY DAVIS &
SARA MAE DAVIS
(236 WL) T.B.A. = 23.15 Ac.
(236 U) T.B.A. = 0.22 Ac.
P.R.O. = 0.01 Ac.
Total = 0.23 Ac.
(236 T) T.B.A. = 0.68 Ac.

N 72°45'10" E
+52.01 / 700
L AR/W
S 4°36'55" E 387.98'
N 85°23'05" E 460.00'
N 14°35'33" W 726.38'
S 72°45'10" W 481.76'
(236 T)
+95.70 / 700'
1½ Sty
Sewage Treatment Plant
Motorists Services Building
Shelter House
+52.01 / 240'
+39.02 / 98.45
S 12°10'35" E 315.74'
+00 / 180'
S 5°35'50" E 1604.39'
℄ Construction Limit
Woven 11 Strand Barbed Wire
(234 WL)
140.74'
℄ RAMP "V"
(235 WL)
920.74'
℄ SURVEY I.R. 275
Sta. 87+37.50
Sta. 387+41.14 Ramp "V"
84°11'28"
90°
MATCH LINE STA. 375+00
MATCH LINE STA. 390+00

COMPLETION DATE NOV. 17, 1969		
Rev.	Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
HARDIN M.S. 1935
SCALE: 1" = 50'

R/W STA. 375 TO STA. 390 Lt.

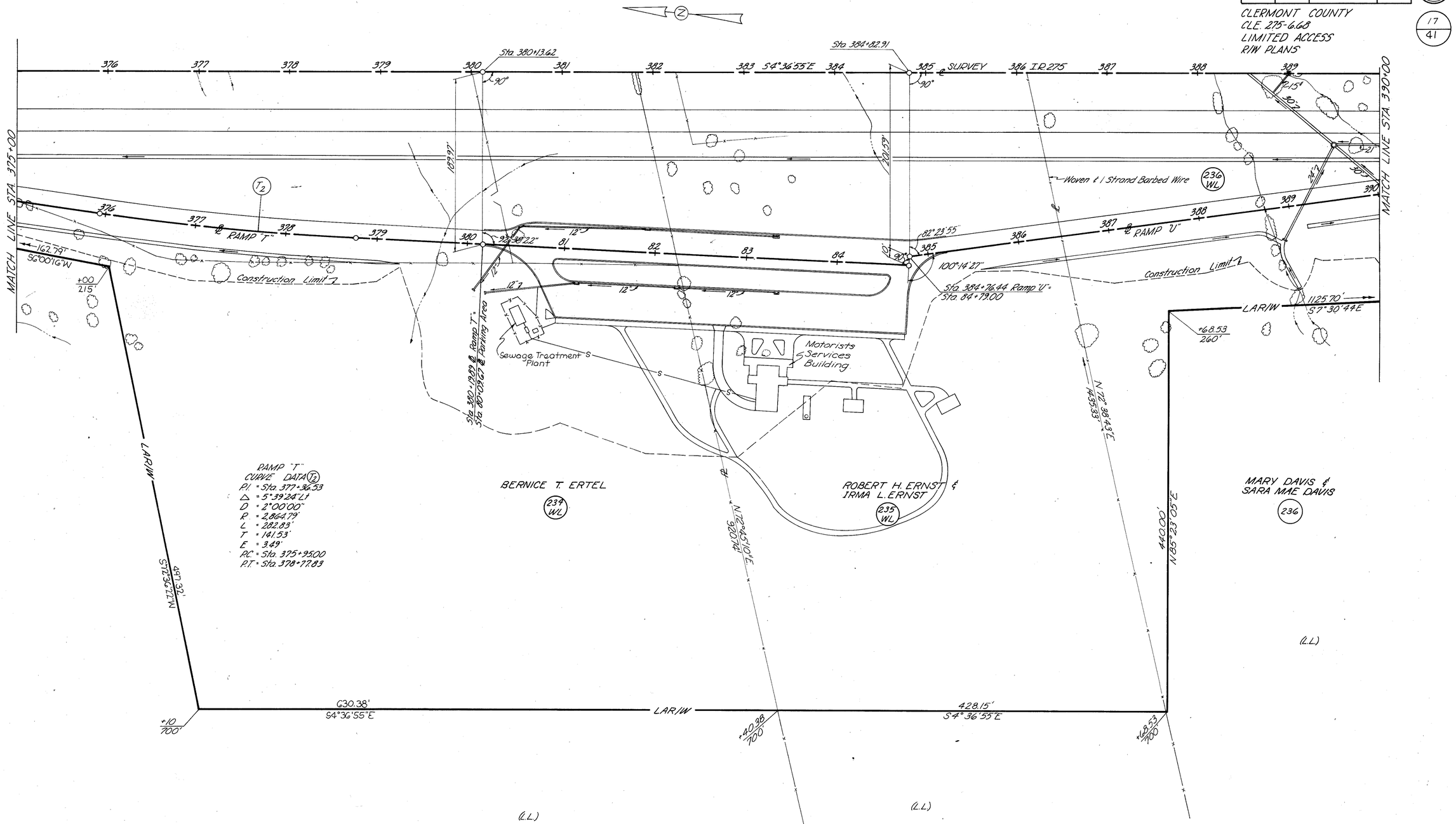
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FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

614
6.38

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41

CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS



COMPLETION DATE NOV. 17, 1969		
Rev	Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
HARDIN M.S. 1935
SCALE: 1" = 50'

17
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R/W STA. 375 TO STA. 390 Rt.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

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CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS

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For Continuation of Parcels 236-T and 236-U See Sheet No. 40

236 T

236 U

+16.20 700'

+36.70 700'

+57.20 700'

S 72° 43' 03" W 499.84'

S 72° 43' 03" W 501.16'

S 4° 36' 55" E 887.98'

+40 700'

LAR/W

MARY DAVIS & SARA MAE DAVIS

236 WL

S 72° 51' 21" W 460.98'

RAMP "W"

CURVE DATA (W1)		CURVE DATA (W2)	
P.I.	= Sta. 392+64.71	P.I.	= Sta. 397+30.71
Δ	= 12°46'12" Rt.	Δ	= 11°56'20" Lt.
D	= 9°32'57"	D	= 1°30'00"
R	= 600.00'	R	= 3,819.72'
L	= 133.73'	L	= 795.93'
T	= 67.14'	T	= 399.41'
E	= 3.74'	E	= 20.83'
P.C.	= Sta. 391+97.57	P.R.C.	= Sta. 393+31.30
P.R.C.	= Sta. 393+31.30	P.T.	= Sta. 401+27.23

WILANELLE REED

237 WL — T.B.A. 30.00 Ac.

237 X — T.B.A. 0.53 Ac.

+50 635'

S 1° 27' 47" W 81.74'

S 89° 03' 01" E 225.58'

+00 590

+50 429.42'

82.42'

S 45° 59' 35" E 491.74'

LAR/W

O'BANNION M.S. NO. 2721
HARDIN M.S. NO. 1935

2 Strands Barbed Wire

Wooded Area

+40 250'

Wooded Area

S 7° 43' 05" W

359.56'

S 3° 54' 56" W

Barbed Wire

+93.58
196.66

Woven & 1 Strand Barbed Wire

LAR/W

392.67'

+80 140'

Sta 401+27.23 I.R. 275
Sta 401+27.23 Ramp "W"

237 WL

Construction Limit

Construction Limit

Sta 91+23.50

91

90°

392

393

394

395

396

397

℄ RAMP "W"

398

399

400

401

90° Tan to Curve

90° Tan to Curve

186.50

28'

90°

391

392

393

394

395

396

397 S 4° 36' 55" E

℄ SURVEY I.R. 275

398

399

400

401

402

403

404

Sta 391+23.50

MATCH LINE STA. 390+00

MATCH LINE STA. 405+00

P.C. STA. 400+70.56

℄ SURVEY
CURVE DATA
P.I. = Sta 4/4+01.83
Δ = 37°38'10" Rt.
D = 1°28'00"
R = 3,906.53'
L = 2,566.10'
T = 1,331.27'
E = 220.60'

COMPLETION DATE NOV. 17, 1969		
Rev	Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
HARDIN M.S. 1935
O'BANNION M.S. 2721
SCALE: 1"=50'

R/W STA. 390 TO STA. 405 Lt.

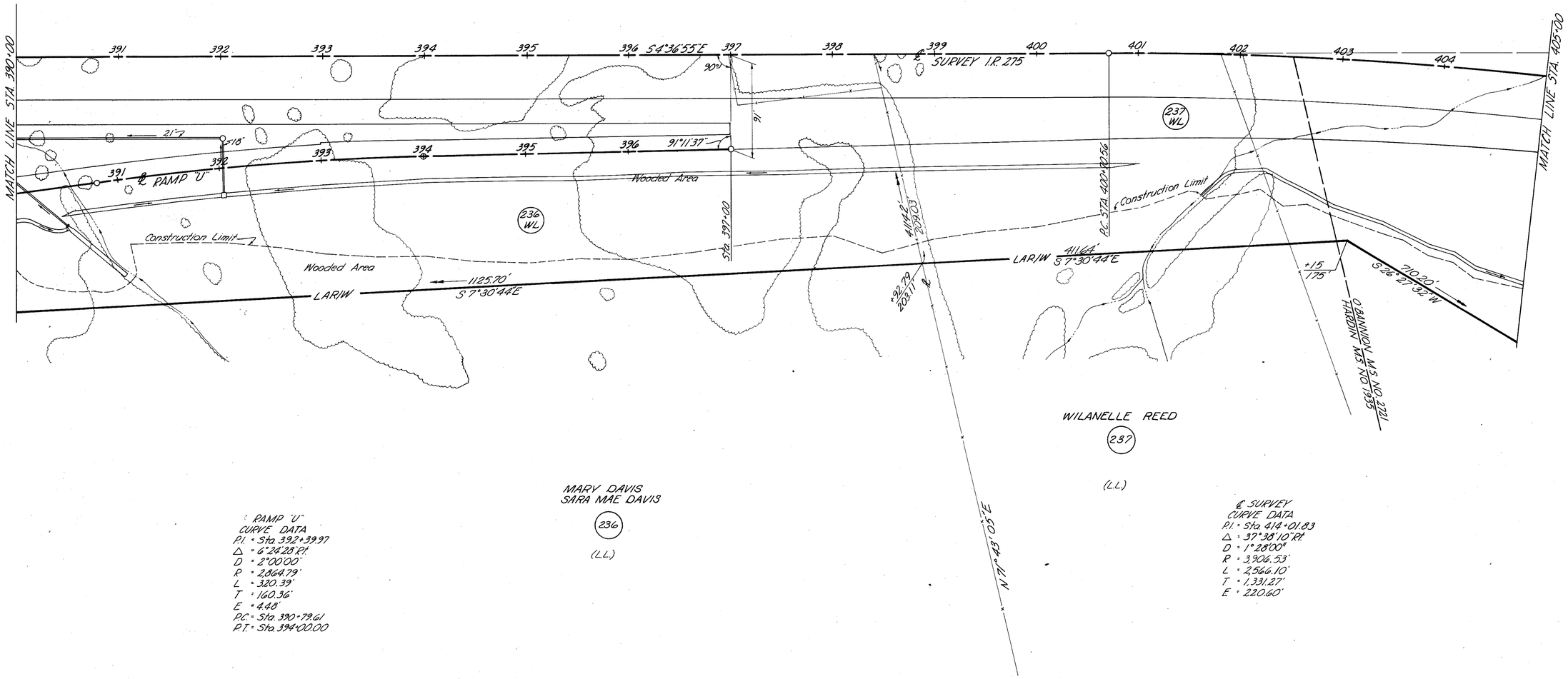
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FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

616
6-58

19
41

CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS



℄ RAMP "U"
CURVE DATA
P.I. = Sta. 392+39.97
Δ = 6°24'28" Rt.
D = 2°00'00"
R = 2,864.79'
L = 320.39'
T = 160.36'
E = 4.48'
P.C. = Sta. 390+79.61
P.T. = Sta. 394+00.00

℄ SURVEY
CURVE DATA
P.I. = Sta. 414+01.83
Δ = 37°38'10" Rt.
D = 1°28'00"
R = 3,906.53'
L = 2,564.10'
T = 1,331.27'
E = 220.60'

COMPLETION DATE NOV. 17, 1969		
Rev.	Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
HARDIN M.S. 1935
O BANNION M.S. 2721
SCALE: 1" = 50'

19
41

R/W STA. 390 TO STA. 405 Rt.

NOV 21 1969

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

CLERMONT COUNTY
CLE 275-6.68
LIMITED ACCESS
R/W PLANS

617
639

20
41

S1°27'47"W
+20
655'
81.7'
S69°48'06"W
235.85'
237
X
+00
490'
123.58'
+00
437.48'
LAR/W
S27°33'47"W
975.70'
Construction Limit 2
(HALLS RUN CREEK)
Wooded Area
Wooded Area
LAR/W
+50
160'
C.L. Strands Barbed Wire
S54°36'55"E
237
WL
S19°11'00"W
577.44'
LAR/W
S33°01'15"W
Construction Limit 3
+00
150'
S25°52'59"W
518.84'
MATCH LINE STA. 405+00
406
407
408
409
410
411
412
413
℄ SURVEY I.R. 275
414
415
416
417
418
419
MATCH LINE STA. 420+00

WILANELLE REED
237

℄ SURVEY
CURVE DATA
P.I. = Sta. 414+01.83
Δ = 37°38'10" Rt.
D = 1°28'00"
R = 3,906.53'
L = 2,566.10'
T = 1,331.27'
E = 220.60'

COMPLETION DATE NOV. 17, 1969		
Rev.	Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
O'BANNION M.S. 2721
SCALE: 1" = 50'

20
41

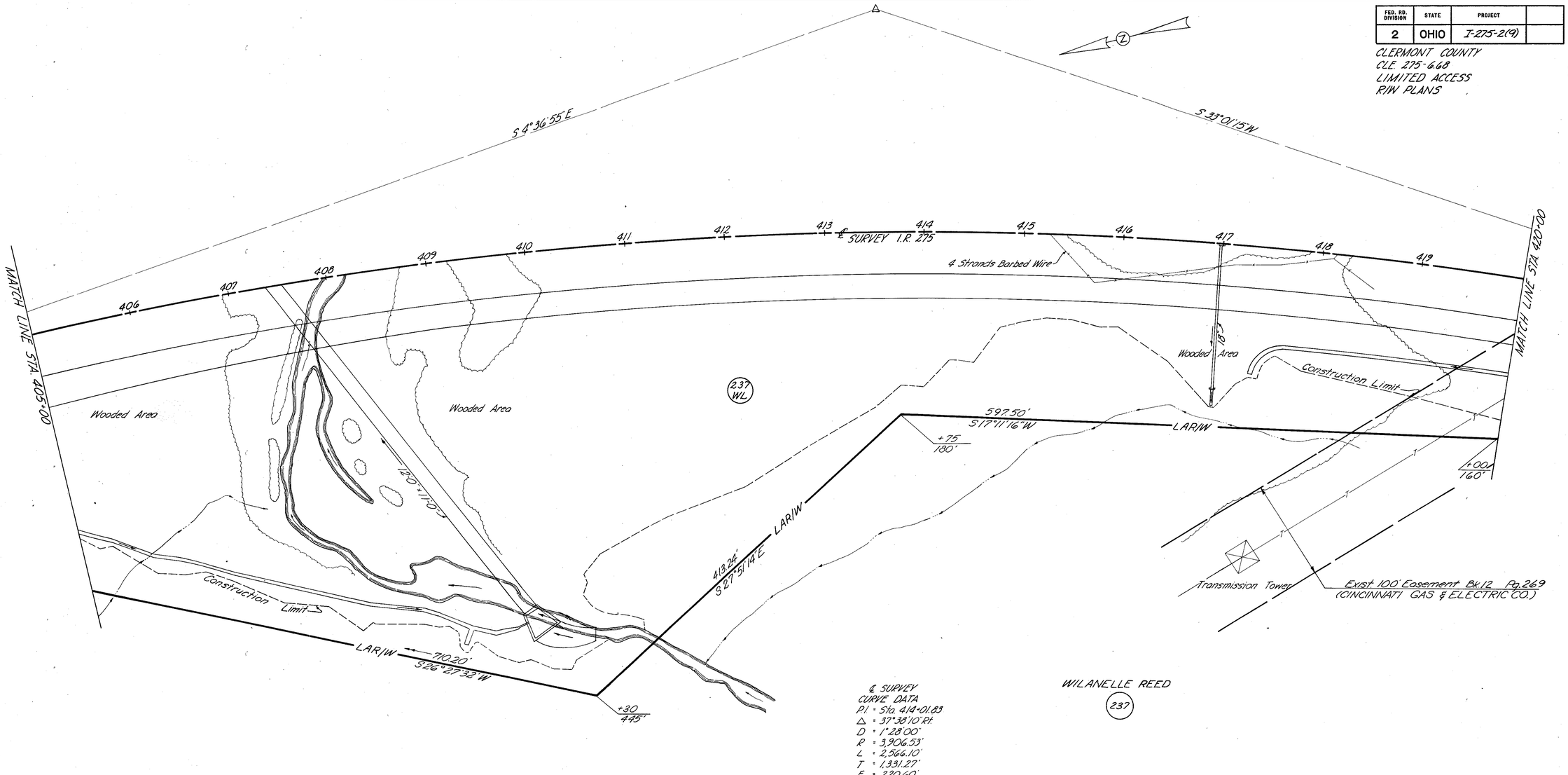
R/W STA. 405 TO STA. 420 Lt.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

CLERMONT COUNTY
CLE 275-6.68
LIMITED ACCESS
R/W PLANS

6.18
6.39

21
41



℄ SURVEY
CURVE DATA
P.I. = Sta. 414+01.83
△ = 37°38'10" Rt.
D = 1°28.00'
R = 3,906.53'
L = 2,566.10'
T = 1,331.27'
E = 220.60'

WILANELLE REED

237

(L. L.)

COMPLETION DATE : NOV. 17, 1969		
Rev.	Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
O'BANNION M.S. 2721
SCALE: 1" = 50'

R/W STA. 405 TO STA. 420 Rt.

21
41

NOV 2 1 1969

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(19)	

CLERMONT COUNTY
CLE 275-6.68
LIMITED ACCESS
R/W PLANS

619
6.38

22
41

MATCH LINE STA 420+00

MATCH LINE STA 435+00

Exist 100' Easement
(CINCINNATI GAS & ELECTRIC CO)

Transmission Tower

Wooded Area

REUTER W. BRODERSEN &
ELSA J. BRODERSEN

240 WL T.B.A. = 9.88 Ac.

240 T T.B.A. = 0.11 Ac.

239

FRED H. BARG &
HELEN BARG

239

BARGS SALT RUN (TWP RD NO 211)

Exist R/W

Asphalt

Exist R/W

Wooded Area

Wooded Area

Wooded Area

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(8)	

CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS

620
038

23
41

FRED H. BARG &
HELEN BARG

239 WL T.B.A. = 11.44 Ac.

239 T T.B.A. = 0.02 Ac.

N

MATCH LINE STA 435+00

MATCH LINE STA 450+00

Exist R/W

Exist R/W

BARGS SALT RUN (TWP. RD. NO. 211)

15" C.M.P.

+00
195'

+00
160'

Asphalt

Woven Wire

Woven Wire

L.A.R/W

L.A.R/W

L.A.R/W

720.28'

S33°36'43"W

S31°27'30"W
550.13'

S31°35'20"W
600.19'

+20
130'

Construction Limit

Construction Limit

240 WL

239 WL

Wooded Area

145.00'

S33°01'15"W
130.08'

+69.50

287.66'

436 437 438 439 440 441 442 443 444 S33°01'15"W 445 446 447 448 449

℄ SURVEY I.R. 275

Wooded Area

142.66'

Woven Wire

Construction Limit

Wooded Area

500.10'
S31°52'30"W

+50
140'

+50
140.83'

S56°58'45"E
49.17'

100.00'
S33°01'15"W

+50
190'

240 T

+50
190'

S56°58'45"E
48.33'

319.10'
S33°29'54"W

+50
141.67'

69.09'
142.66'

280.92'

+50
195'

139.28'
S54°03'30"W

239 WL

Construction Limit

18'±

+80
195'

Wooded Area

L.A.R/W

1161.31'
S31°32'26"W

REUTER W. BRODERSEN &
ELSA J. BRODERSEN

240

(L.L.)

Wooded Area

S56°58'45"E
468.47'

Wooded Area

(L.L.)

(HALLS RUN)

(JONES RUN)

COMPLETION DATE NOV. 17, 1969		
Rev	Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
CARRINGTON M.S. 2434
SCALE: 1" = 50'

R/W STA. 435 TO STA. 450

23
41

NOV 21 1969

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

621
638

24
41

CLERMONT COUNTY
CLE 275-6.68
LIMITED ACCESS
R/W PLANS

ARTHUR F. CLEPHANE &
ANNA L. CLEPHANE

243 WL — T.B.A. = 0.33 Ac.

243 EL — T.B.A. = 0.15 Ac.
PRO. = 0.03 Ac.
Total = 0.18 Ac.

℄ SURVEY
CURVE DATA
P.I. = Sta. 473+51.04
Δ = 17°26'30" Lt.
D = 0°45'00"
R = 7,639.44'
L = 2,325.56'
T = 1,171.84'
E = 89.35'

LOUISE FENKER
242

Stone Foundation
1 Sty Frame Shed
239 7
Gravel
BARGS SALT RUN ROAD
Exist. R/W
Brick Post
S30°02'45"W 100.00
(TWP. RD. NO. 211)
Asphalt
Exist. R/W
Brick Post
Asphalt
Exist. R/W
MILDRED E. MARTIN
243 EL
PC STA 461+79.20
+00 160'
+20 180'
S33°01'15"W 23.79'
S56°58'45"E 45.00'
+65 180'
24.33' S56°58'45"E
45.00'
1 Sty Frame Garage
S33°42'01"W 743.56'
LAR/W
+43.50 151.18'
S56°32'36"E 77.29'
99.82'
+43.32 150'
S32°58'32"W 405.29'
+50 150'
LAR/W
S28°27'57"W 881.29'
Construction Limit
2 Sty Frame #4875
Screened in Porch
30' 56.21'
+65 153.67'
Construction Limit
Leach Area
Septic Tank
Conc. Walks
Drive
1 Sty. Fr. Shed
Stone Wall, Metal Fence
239 WL
1 Sty Frame #4859
Septic Tank
Leach Area
243 WL
147.71'
86.66'
Wood Rabbit Hutch
Corr. Metal Rabbit Hutch
Woven Wire
Wooded Area
Woven Wire & 2 Strands Barbed Wire
244 WL
MATCH LINE STA 450+00
451 452 453 454 455 456 457 458 459 460 461 462 463 464
S30°02'45"W 100.00
+42.26 86.67'
+42.18
S33°01'15"W
SURVEY I.R. ℄ 275
18°
18°
MATCH LINE STA 465+00
Wooded Area
Construction Limit
239 WL
Woven Wire
27°
Wooded Area
Construction Limit
244 WL
LAR/W
S31°32'26"W 1161.31'
133.67'
S56°32'36"E
LAR/W
1134.77'
S30°44'42"W
LAR/W
Wooded Area
+40.92 16.5'
+30 161.96'
S56°58'45"E 23.56'
+30 185'
40.03'
40.00'
S33°01'15"W
244 T
+70 159.87'
S56°58'45"E 25.13'
+70 185'
Wooded Area
239
FRED H. BARG & HELEN BARG
(L.L.)
(L.L.)

MILDRED E. MARTIN

244 WL — T.B.A. = 11.20 Ac.

244 — T.B.A. = 0.58 Ac.
PRO. = 0.29 Ac.
Total = 0.87 Ac.

244 T — T.B.A. = 0.02 Ac.

COMPLETION DATE		NOV. 17, 1969
Rev.	Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
CARRINGTON M.S. 2434
SCALE: 1"=50'

R/W STA. 450 TO STA. 465

24
41

NOV. 1 1969

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(19)	

622
6.33

25
41

CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS

℄ SURVEY
CURVE DATA
P.I. = Sta 473+51.04
Δ = 17°26'30" Lt.
D = 0°45'00"
R = 7,639.44'
L = 2,325.56'
T = 1,171.84'
E = 89.35'

RELOCATED BARGS SALT RUN ROAD
CURVE DATA (2)
P.I. = Sta. 47+21.11
Δ = 39°03'00" Rt.
D = 26°00'00"
R = 220.37'
L = 150.19'
T = 78.15'
E = 13.45'
P.C. = Sta 46+42.96
P.T. = Sta 47+93.15

CURVE DATA (3)
P.I. = Sta. 52+92.69
Δ = 47°45'00" Lt.
D = 28°00'00"
R = 204.63'
L = 170.53'
T = 90.57'
E = 19.15'
P.C. = Sta 52+02.12
P.T. = Sta 53+72.65

DALLAS L. JONES &
AVA S. JONES
(245 WL) T.B.A. = 0.53 Ac.
PRO. = 0.13 Ac.
Total = 0.66 Ac.
(245 7) T.B.A. = 0.01 Ac.

MATTHEW
CARRINGTON
M.S. 1138

Wooded Area
Exist R/W
BARGS SALT RUN ROAD
Exist R/W
+25 65'
+60 15'
S16°21'41"W
R/W 155.55'
S42°37'03"W 77.27'
+70 45.86'
+35.88 75.22'
S32°18'09"W 52.98'
(TWP RD NO 211)
Asphalt
15.00'
Arc = 168.19'
Rad = 969.93'
Chd = 167.98'
Brg = S37°16'11"W
+78.05 188.17'
+71.15 169.34'
505' S42°14'15"W
+66.21 205.09'
+66.77 190.74'
+52.70 143.92'
Tri-level Brick #178
Asphalt
S47°45'45"E
+06.96 178'
+00 159.19'
S42°14'15"W 300.0'
S47°45'45"E
Woven Wire
N82°39'45"W
+44.12 165.23'
1093.46
247 WL
S16°38'44"W
329.24'
LAR/W
Construction Limits
Exist R/W
+30 178.82'
S42°14'15"W 98.88'
S26°33'42"W 55.52'
+89.14 150.03'
+30.96 140'
+51.30
MILDRED E. MARTIN
LAR/W
S28°27'57"W 381.29'
Construction Limits
244
S26°33'42"W 293.22'
244 WL
245 WL
Exist R/W
S42°14'15"W 403.34'
Wooded Area
51+ ℄ RELOCATED BARGS SALT RUN ROAD
316.43' 346.21'
246 WL
Sta. 473+75.00 I.R 275
Sta. 50+0000 Relocated
Barg's Salt Run Road
℄ SURVEY I.R 275
18"
S15°34'45"W
+08.09 10.90
Cove
MATCH LINE STA. 465+00
MATCH LINE STA. 480+00
S33°01'15"W
56°00'00" Tan. to Curve
18"
Wooded Area
Wooded Area
244 WL
Construction Limits
LAR/W 1124.22' S30°44'42"W
255.22' S26°18'09"W
1620.11' S23°09'48"W
246.22' 185.00'
Construction Limits
LAR/W 431.13' S19°55'26"W
+40 154.39'
+00 155
+40 50'
S57°32'32"W 102.30'
246 A
+50 160'
+00 160'
+58.68 155.46'
Woven Wire
R/W
S62°09'30"W
245.08'
R/W S40°52'25"W 510.43'
R/W S40°05'26"W 439.36'
+75 65'
+45 55'
MILDRED E. MARTIN
244
(L.L.)
Wooded Area
S49°39'30"E

L.C. HOMES INC.
(246 WL) T.B.A. = 3.22 Ac.
PRO. = .20 Ac.
Total = 3.42 Ac.
(246 A) T.B.A. = 2.01 Ac.
PRO. = .008 Ac.
Total = 2.09 Ac.
(246 B) T.B.A. = 0.05 Ac.
PRO. = 0.02 Ac.
Total = 0.07 Ac.

COMPLETION DATE NOV. 17, 1968		
Rev.	Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
CARRINGTON M.S. 2434
MATTHEW M.S. 1138
SCALE: 1"=50'

R/W STA 465 TO STA 480

25
41

NOV 21 1969

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

623
638

26
41

CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS

℄ SURVEY
CURVE DATA
P.I. = Sta. 473+51.04
Δ = 17°26'30" Lt.
D = 0°45'00"
R = 7639.44'
L = 2325.56'
T = 1,171.84'
E = 89.35'

P.T. STA. 485+04.76

MATCH LINE STA. 480+00

MATCH LINE STA. 495+00

LAR/W

S16°38'44"W
1093.46'

S15°04'43"W
572.34'

S15°34'45"W

S15°02'01"W
1050.16'

S19°55'26"W
487.60'

Construction Limits

Wooded Area

℄ SURVEY I.R. 275

Exist. Easement, Bk. 7, Pg. 241
Ohio Telephone & Telegraph Co.)

Underground Telephone Cable

Exist. 20' Easement, Bk. 23 Pg. 265
Cincinnati Gas & Electric Co.

247 WL

247 T

246 A

246 B

15"

36"

33"

481 482 483 484 485 486 487 488 489 490 491 492 493 494

+92.35
147.22'

431.13

25.00'
S4°42'08"W

+27.82
191.88

40.00'
N0°33'45"W

+01.38
185.52

+87.28
230.68

55.00'
S4°42'08"W

+75
152.08

+92.74
148.86

96.99'

+70
155.85'

+00
170'

+75
210'

99.76'
S29°15'39"W

+39.99
216.85'

+70
230'

3 Strand Barbed Wire

Woven Wire Fence

EDWARD C. RUMPKE (LIFE ESTATE)
ALBERTA KLUBA
LAURETTA PEUNING
CARL E. RUMPKE
DOROTHY BAINUM
HERBERT A. RUMPKE
BETTY SNIDER

247 WL
T.B.A. = 12.67 Ac.
P.R.O. = 0.04 Ac.
Total = 12.71 Ac.

247
T.B.A. = 0.07 Ac.
P.R.O. = 0.07 Ac.
Total = 0.14 Ac.

247 T
T.B.A. = 0.15 Ac.

REL. BARGS SALT RUN RD.

S40°32'25"W
310.45'

+46.91
64.21'

+33.14
70'

42+49.11

MATCH LINE STA. 42+49.11

℄ REL. BARGS SALT RUN RD.

S86°17'56"W
163.20'

+00
40'

+50
17.08'

+50
12.92'

S4°42'07"W

+50
20.08'

1499'

R.E.L. BARGS SALT RUN RD.
CURVE DATA (1)
P.I. = Sta. 41+11.74
Δ = 53°42'00" Lt.
D = 23°00'00"
R = 249.11'
L = 233.48'
T = 126.11'
E = 30.10'
P.C. = Sta. 39+85.63
P.T. = Sta. 42+19.11

COMPLETION DATE NOV. 17, 1969		
Rev.	Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
CARRINGTON M.S. 2434
MATTHEW M.S. 1138
SCALE: 1" = 50'

R/W STA. 480 TO STA. 495

26
41

1969

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(19)	

624
639

CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS

27
41

WILLIAM H. MILLER
248 WL
T.B.A. = 7.51 Ac.

Exist. 100' Easement Bk. 15 Pg. 525
(CINCINNATI GAS & ELECTRIC CO.)

4 Strand Barbed Wire

ROBERT F. DREIDAME "TR"
250

N 84°35'56" W

Woven & 1 Strand Barbed Wire

S15°04'43"W LAR/W 572.39'

S16°41'04"W 1042.89'

LAR/W

Construction Limits

248 WL

251 WL

S15°01'53"W 535.01'

MATCH LINE STA 495+00

MATCH LINE STA 510+00

247 WL

496 497 498 499 500 501 502 S15°39'45"W 503 504 505 506 507 508 509

SURVEY I.R. 275

33'

220.15'

18'

CS

310.34'

1050.16'

S15°02'01"W

130.11'

S12°03'14"W

220.15'

S15°03'31"W

600.08'

S16°32'02"W

219.22'

S14°26'00"W

280.38'

LAR/W

Transmission Tower

(L.L.)

Exist 20' Easement (CINCINNATI GAS & ELECTRIC CO.) Bk. 23 Pg. 265

2-Sty. Shingle

2-Sty. Frame

EDWARD C. RUMPKE (ETAL)
247

BENNIE BYRD & MAE BYRD
249

Post

(L.L.)
ALBERTA KLUBA

251 WL: T.B.A. = 15.46 Ac.; R.O.O. = 0.05 Ac.; Total = 15.51 Ac.

251: T.B.A. = 0.38 Ac.; R.O.W. = 0.32 Ac.; Total = 0.70 Ac.

251 F-1: T.B.A. = 0.19 Ac.

251 T-2: T.B.A. = 0.07 Ac.

251 X: T.B.A. = 0.18 Ac.

COMPLETION DATE NOV. 17, 1969		
Rev	Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
MATTHEW M.S. 1138
SCALE: 1" = 50'

R/W STA. 495 TO STA. 510

27
41

NOV 21 1969

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

625
635

CLERMONT COUNTY
CLE 275-6.68
LIMITED ACCESS
R/W PLANS

28
41

MELODY LANE
LOT 67
LOT 68
LOT 69
LOT 70
SUMMERSIDE ACRES SUB.
P.B. E, Pg. 113 R.O.
CLIFTON H. BEETS & LEONA S. BEETS
252
ALICE R. JOHNSON
253
LEON. RILEY & DOROTHY E. RILEY
254
JAMES W. WHERRITT & DOROTHY M. WHERRITT
255
ROBERT F. DREIDAME "TR"
250A
250
Wooded Area
Woven & 1-Strand Barbed Wire
ALBERTA KLUBA
251
Corn Field
Pasture
Exist. 20' Easement (CINCINNATI GAS & ELECTRIC CO.) Bk. 23 Pg. 266
+00
155'
+80
190'
S 8°27'15"W
282.18
S 15°01'53"W
535.01'
LAR/W
Construction Limits
Cultivated
4 Strand Barbed Wire
S 18°45'51"W
1030.63'
+00
155
251 WL
MATCH LINE STA 510+00
5/1
5/2
5/3
5/4
5/5
℄ SURVEY I.R. 275
5/6
5/7
5/8
5/9
520
521
522
S 15°34'45"W
523
529
MATCH LINE STA 525+00
PC STA NO. 5774.50
1113.20'
S 16°22'23"W
(L.L.)
Wooded Area
1142.63'
S 6°58'34"W
258 WL
+17.94
160'
525.09'
S 18°32'07"W
249
BOARD OF EDUCATION, GLEN ESTE-MT. CARMEL LOCAL SCHOOL DISTRICT
257

258

GLEN W. HOLMAN
MARY C. HOLMAN
} 1/2 INTEREST
J. HENRY DAVIDSON
FRANCES D. DAVIDSON
K.R. ROBERTS
CHRISTINE ROBERTS
} 1/2 INTEREST

℄ SURVEY
CURVE DATA
P.I. = Sta. 532+30.07
△ = 13°44'35" Rt.
D = 0°28'00"
R = 12,277.67'
L = 2,944.94'
T = 1,479.57'
E = 88.83'

COMPLETION DATE NOV. 17, 1969		
Rev.	Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
MATTHEW MS 1138
SCALE: 1" = 50'

R/W STA. 510 TO STA. 525

28
41

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(19)	

626
628

29
41

CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS

BEN SIEGEL &
THE SUMMIT COUNTRY DAY SCHOOL INC.

250 T.B.A. = 0.06 Ac.
PRO. = 0.15 Ac.
Total = 0.21 Ac.

DOROTHY CRULL

259 WL T.B.A. = 28.25 Ac.
PRO. = 9.67 Ac.
Total = 37.92 Ac.

259 T-1 T.B.A. = 0.96 Ac.

259A T.B.A. = 0.54 Ac.
PRO. = 0.48 Ac.
Total = 1.02 Ac.

259 T-2 T.B.A. = 0.10 Ac.

259B T.B.A. = 0.04 Ac.
PRO. = 0.07 Ac.
Total = 0.11 Ac.

259 T-3 T.B.A. = 0.07 Ac.

ALBERTA KLUBA

251 Pasture

251 72

251 X

251 T-1

251 WL

259 A

259 T-1

259 WL

258

Exist. 20' Easement (CINCINNATI GAS & ELECTRIC CO. Bk 24 Pg 421

Exist 20' Easement (CINCINNATI GAS & ELECTRIC CO.)

BATAVIA PIKE (CO RD NO. 171)

TEMPORARY ROAD

Exist. R/W

R/W

Asphalt

Asphalt Drive

Temporary Conduit

Wooded

Woven Wire & 2 Str. Barbed Wire

Woven Wire & 1 Str. Barbed Wire

Woven Wire & 1 Str. Barb Wire

Cultivated

Corn Field

Construction Limits

Pasture

1 Sty. Fr. Shed

1 Sty. Fr. Garage

2 Sty. Fr. Res

1 Sty. Frame Barn

1 Sty. Shingle Business

Abandoned Septic Tank

Septic Tanks

Fr. Privy

2½ Conc. Walk

18" Metal Pipe

12" Wooden

Gravel

N 89°18'30"W 6000

N 0°41'30"E 3000

N 27°28'25"E 255.39

N 26°39'20"E 1030.6

N 86°24'05"E 2787.50

N 89°18'30"W 557.19

N 89°18'30"W 410.77

N 87°11'57"W 402.23

N 89°18'30"W 2657.23

S 7°03'30"W

S 4°08'10"W 64.63 42.00

S 20°50'42"W 720.92

S 20°50'42"W 291.88

S 25°03'28"W 443.88

S 4°33'42"W 160.02

S 15°34'45"W 1142.63

S 6°58'34"W

S 5°29'19"W

S 21°08'06"E 617.24

S 19°10'22"W 630.9

S 68°48'26"E 140.00

S 20°48'26"E 153.88

S 68°48'26"E 153.88

N 22°27'56"W

68°00'20" Tan. to Curve

91°11'37"

90° Tan. to Curve

+10 30'
+50 30'
+50 30'
+50 55'
+75 130'
+50 70'
+00 60'
+30 62.58'
+05 125'
+80 125'
+60 65.16'
+50 300
+89.45 251.71
+50 270
+50 149.76'
+80 149.08'
+34.96 149.15
+00 165'
+17.81 130' (C.B.)
+39.83 70' C.B.
+93.04 75' (C.B.)
+65.52 (C.B.)
+12.07 (C.B.)
+03.25
+31.25
+37.44 255'

"H" +50 55'

Sta. 535+75.00 I.R. 275
Sta. 535+75.00 Ramp "H"

Sta. 532+73.25 I.R. 275
Sta. 50+00 Cinti-Batavia Pike
(Co. Rd. No. 171)

℄ SURVEY I.R. 275

℄ RAMP "H"

MATCH LINE STA. 525+00

MATCH LINE STA. 540+00

℄ SURVEY
CURVE DATA
P.I. = Sta. 532+30.07
Δ = 13°44'35" Rt.
D = 0°28'00"
R = 12,277.67'
L = 2,944.94'
T = 1,479.57'
E = 88.83'

RAMP "H"
CURVE DATA 41
P.I. = Sta. 541+32.27
Δ = 39°31'06" Lt.
D = 8°00'00"
R = 716.20'
L = 493.98'
T = 257.27'
E = 44.81'
P.C. = Sta. 538+75.00
P.T. = Sta. 543+68.98

COMPLETION DATE NOV. 17, 1969		
Rev.	Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
MATTHEW M.S. 1138
SCALE: 1" = 50'

29
41

R/W STA. 525 TO STA. 540 Lt.

NOV. 1 1969

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

627
635

30
41

CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS

MATCH LINE STA. 88+00

RAMP "H"

CURVE DATA (H1)	CURVE DATA (H2)
P.I. = Sta. 541+32.27	P.I. = Sta. 551+51.22
Δ = 39°31'06" Lt.	Δ = 35°10'05" Lt.
D = 8°00'00"	D = 8°00'00"
R = 716.20'	R = 716.20'
L = 493.98'	L = 439.60'
T = 257.27'	T = 226.97'
E = 44.81'	E = 35.11'
P.C. = Sta. 538+75.00	P.C. = Sta. 549+24.25
P.T. = Sta. 543+68.98	P.C.C. Sta. 553+63.85

RAMP "L"
CURVE DATA (L2)
P.I. = Sta. 548+38.42
Δ = 33°26'03" Lt.
D = 8°00'00"
R = 716.20'
L = 417.93'
T = 215.10'
E = 31.60'
P.C.C. = Sta. 546+23.32
P.T. = Sta. 550+41.25

& SURVEY
CURVE DATA
P.I. = Sta. 532+30.07
Δ = 13°44'35" Rt.
D = 0°28'00"
R = 12,277.67'
L = 2,944.94'
T = 1,479.57'
E = 88.83'

OMNI DEVELOPMENT CO.
(261 WL) TBA = 5.07 Ac.
PDO = 1.19 Ac.
Total = 6.26 Ac.

DOROTHY CRULL
(259 WL)

ANDY FOOS
(263 WL)

(262 WL)

Arc = 969.45'
Rad = 1,927.17'
Chd = 959.26'
Brg = N80°06'54"W

Arc = 229.20'
Rad = 1,902.17'
Chd = 229.06'
Brg = S81°52'30"W

Arc = 421.55'
Rad = 1,902.17'
Chd = 420.69'
Brg = S78°58'41"W

COMPLETION DATE	NOV. 17, 1969
Rev. Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
MATTHEW M.S. 1138
SCALE: 1" = 50'

P.T. STA. 546+95.44

STA. 550+79.92 I.R 275
STA. 79+12.47 S.R. 32

84° 41' 30"

SURVEY I.R 275

MATCH LINE STA. 540+00

MATCH LINE STA. 555+00

R/W STA. 540 TO STA 555 Lt.

30
41

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

628
638

CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS

31
41

CALVIN D. AICHOLTZ &
DOROTHY B. AICHOLTZ
(262 WL) TBA = 6.26 Ac.
PRO = 0.10 Ac.
Total = 6.36 Ac.

(262 EL) T.B.A = 0.53 Ac.

HOWARD TAYLOR &
JANET TAYLOR
(265 WL) T.B.A = 1,968 Sq.Ft.

CALVIN D AICHOLTZ
(266 WL) T.B.A = 14,799 Sq.Ft.
PRO = 359 Sq.Ft.
Total = 15,158 Sq.Ft.

(266 WD) T.B.A = 2,623 Sq.Ft.
PRO = 1,241 Sq.Ft.
Total = 3,864 Sq.Ft.

(266 T) T.B.A = 3,778 Sq.Ft.

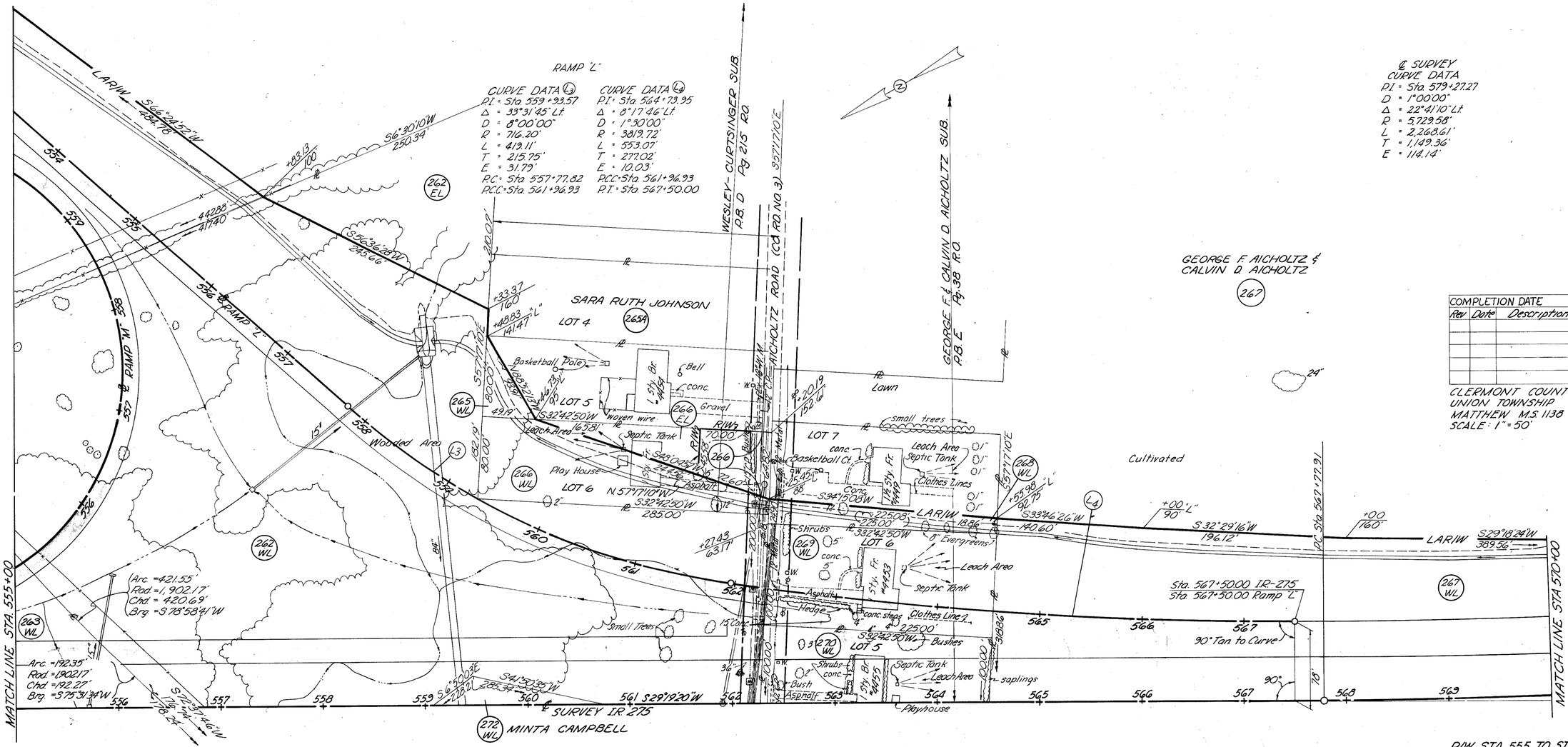
GEORGE F. AICHOLTZ &
CALVIN D. AICHOLTZ
(267 WL) T.B.A = 9.95 Ac.
PRO = 0.02 Ac.
Total = 9.97 Ac.

CALVIN D. AICHOLTZ
(268 WL) T.B.A = 4,431 Sq.Ft.
PRO = 493 Sq.Ft.
Total = 4,924 Sq.Ft.

MITCHEL E. RAMMEL &
JESSIE RAMMEL
(269 WL) T.B.A = 20,500 Sq.Ft.
PRO = 2,000 Sq.Ft.
Total = 22,500 Sq.Ft.

ROBERT D. LEAMAN &
BONNIE B. LEAMAN
(270 WL) T.B.A = 20,500 Sq.Ft.
PRO = 2,000 Sq.Ft.
Total = 22,500 Sq.Ft.

OMNI DEVELOPMENT COMPANY
(261)



COMPLETION DATE		NOV. 17, 1969
Rev	Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
MATTHEW M.S. 1138
SCALE: 1" = 50'

31
41

R/W STA. 555 TO STA 570 L&R

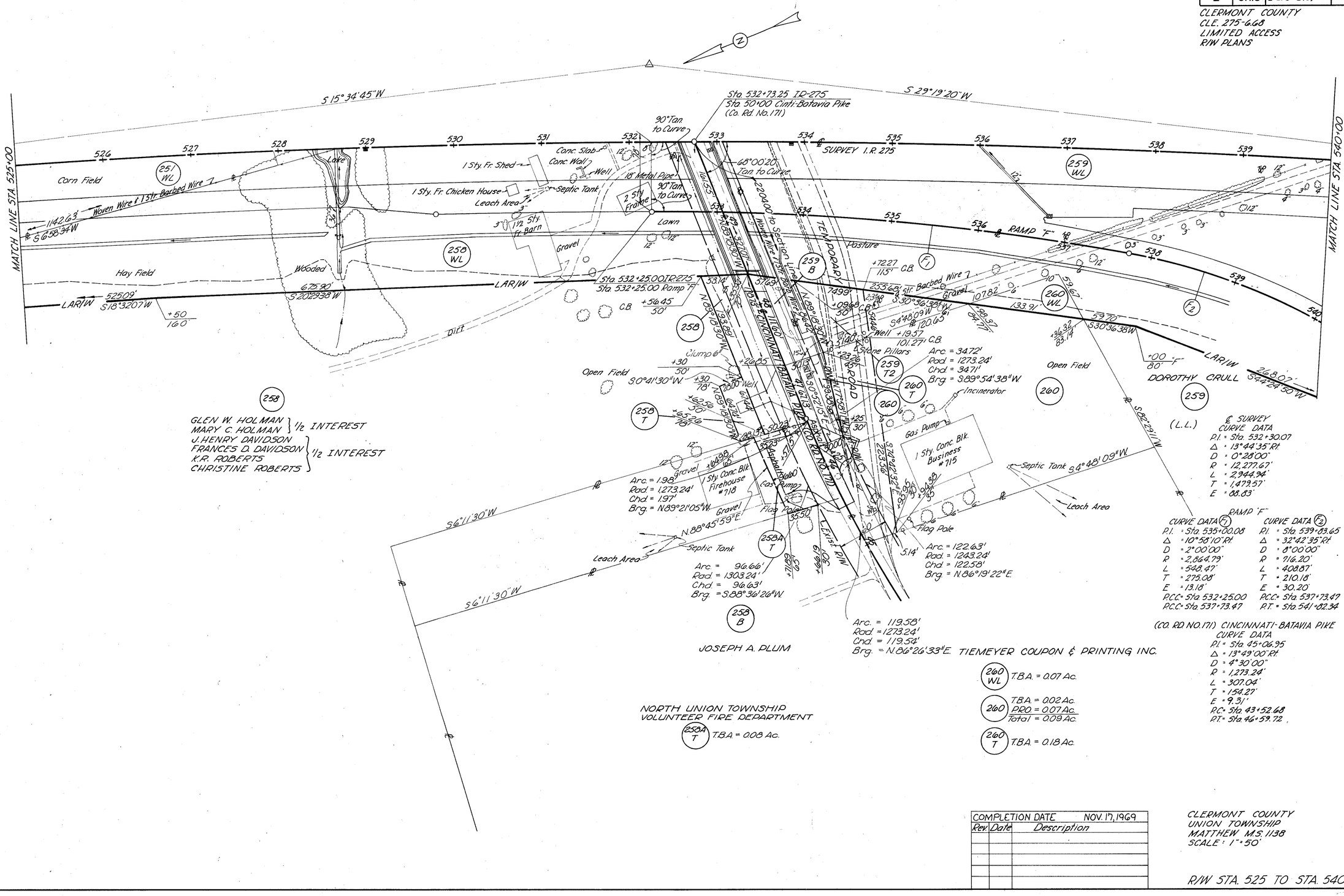
NOV 21 1969

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

62.29
63.8

32
41

CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS


N
MATCH LINE STA 525+00
MATCH LINE STA 540+00
S 15°34'45"W
S 29°19'20"W
Sta 532+73.25 I.D.-275
Sta 50+00 Cinti-Batavia Pike
(Co. Rd. No. 171)
90° Tan to Curve
68°00'20" Tan to Curve
SURVEY I.R. 275
RAMP "F"
TEMPORARY
Corn Field
Hay Field
Wooded
Lawn
Pasture
Gravel
Dirt
Lake
Woven Wire & 1 Str. Barbed Wire
1 Sty. Fr. Shed
Conc. Slab
Conc. Wall
Well
18" Metal Pipe
1 Sty. Fr. Chicken House
Leach Area
Septic Tank
2 Sty. Frame
1½ Sty. Fr. Barn
Jump
Stone Pillars
Incinerator
Gas Pump
1 Sty. Conc. Blk. Business #715
1 Sty. Conc. Blk. Firehouse #718
Flag Pole
Open Field
DOROTHY CRULL
CINCINNATI-BATAVIA PIKE (CO. RD. NO. 171)
LAR/W
Arc = 34.72'
Rad = 1273.24'
Chd = 34.71'
Brg = S 89°54'38"W
Arc = 1.98'
Rad = 1273.24'
Chd = 1.97'
Brg = N 89°21'05"W
Arc = 96.66'
Rad = 1303.24'
Chd = 96.63'
Brg = S 88°36'26"W
Arc = 122.63'
Rad = 1243.24'
Chd = 122.58'
Brg = N 86°19'22"E
Arc = 119.58'
Rad = 1273.24'
Chd = 119.54'
Brg = N 86°26'33"E
Sta 532+25.00 I.R. 275
Sta 532+25.00 Ramp "F"
Sta 532+25.00 I.R. 275
Sta 532+25.00 Cinti-Batavia Pike
(Co. Rd. No. 171)
C.B.
Well
Septic Tank
Leach Area
Gravel
Flag Pole
Incinerator
Gas Pump
Stone Pillars
Jump
Open Field
Dirt
Lawn
Pasture
Wooded
Hay Field
Corn Field
Lake
Conc. Slab
Conc. Wall
Well
18" Metal Pipe
1 Sty. Fr. Shed
1 Sty. Fr. Chicken House
Leach Area
Septic Tank
2 Sty. Frame
1½ Sty. Fr. Barn
Gravel
Flag Pole
Gas Pump
1 Sty. Conc. Blk. Firehouse #718
1 Sty. Conc. Blk. Business #715
Incinerator
Stone Pillars
Jump
Open Field
Dirt
Lawn
Pasture
Wooded
Hay Field
Corn Field
Lake
Gravel
Flag Pole
Gas Pump
Septic Tank
Leach Area

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

6.30
6.38

33
41

CLERMONT COUNTY
CLE. 275-6.60
LIMITED ACCESS
R/W PLANS

MATCH LINE STA 540+00

MATCH LINE STA 555+00

℄ SURVEY I.R. 275

STA. 550+79.92 I.R. 275*
STA. 79+12.47 S.R. 32

℄ SURVEY
CURVE DATA
P.I. = Sta. 532+30.07
Δ = 13°44'35" Rt.
D = 0°28'00"
R = 12,277.67'
L = 2,944.94
T = 1,479.57'
E = 88.83'

P.T. STA 546+95.44

Stone Bldg. Wall

Open Field

Wooded Area

RAMP "K"

Woven Wire & 2 Std. Barbed Wire

S 2°47'39" W

S 29°19'20" W

84°41'30"

Exist. LARIW

Exist. LARIW

S 65°59'10" E

ANDY FOOS

Conc.

Conc.

S.R. 32

Adv. Sign

Woven Wire

Exist. LARIW

Woven Wire

Exist. LARIW

Open Field

RAMP "E"

RAMP "F"

RAMP "G"

RAMP "K"

LARIW

LARIW

LARIW

S 51°06'20" W
347.37'

S 60°06'29" W
430.52'

S 49°28'51" W
268.07'

S 66°39'45" W
260.20'

N 86°05'17" W
323.23'

402.38'

902.31'

1376.51'

(L.L.)

259 WL

263 WL

264 WL

F2

F3

F4

+00
65'

+00
80'

+08.73
320.05'

+50
55'

+28.9
70.99

MATCH LINE STA 70+00

ANDY FOOS
263 WL
T.B.A. = 19.49 Ac.
P.R.O. = 3.80 Ac.
Total = 23.29 Ac.

THE SULLIVAN PRINTING WORKS CO.
264 WL
T.B.A. = 1.11 Ac.
P.R.O. = 1.06 Ac.
Total = 2.17 Ac.

CURVE DATA F2
P.I. = Sta. 539+83.65
Δ = 32°42'35" Rt.
D = 8°00'00"
R = 716.20'
L = 408.87'
T = 210.18'
E = 30.20'
P.C.C. = Sta. 537+73.47
P.T. = Sta. 541+82.34

RAMP "F"
CURVE DATA F3
P.I. = Sta. 545+65.27
Δ = 8°52'46" Lt.
D = 4°30'00"
R = 1273.24'
L = 197.32'
T = 98.86'
E = 3.83'
P.C. = Sta. 544+66.41
P.T. = Sta. 546+63.73

CURVE DATA F4
P.I. = Sta. 551+84.96
Δ = 47°19'19" Rt.
D = 8°00'00"
R = 716.20'
L = 591.52'
T = 313.81'
E = 65.73'
P.C. = Sta. 548+71.15
P.C.C. = Sta. 554+62.67

COMPLETION DATE NOV. 17, 1969		
Rev.	Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
MATTHEW M.S. 1138
SCALE: 1" = 50'

33
41

R/W STA. 540 TO STA. 555 Rt.

NOV 21 1969

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS

34
41

MATCH LINE STA. 555+00

MATCH LINE STA. 570+00

CALVIN D. AICHOLTZ
DOROTHY B. AICHOLTZ

SURVEY I.R. 275

Woven & 2 Strand Barbed Wire

Pond

Wooded Area

Open Field

Lawn

Garden

Grape Arbor

Grill

Gar.

Asphalt

Septic Tank

Leach Area

Well

Corn Field

Evergreens

Shrubs

Wooden

Concrete

Brick

Frame

Gravel

Stone

Privy

Hot Beds

Rabbit Hutch

Open Field

ANDY FOOS
263 WL

LOT 5

LOT 4

LOT 3

LOT 2

LOT 1

AICHOLTZ SUB
R.D.

GEORGE F. & CALVIN D. AICHOLTZ
D.B. 2 Pg. 38

P.C. 567+77.91

90° Tan to Curve

Sta 567+87.60 I-275 =
Sta 567+87.60 Ramp "J"

RAMP "J"
CURVE DATA (J3)
P.I. = Sta. 562+19.31
Δ = 45°28'28" Rt.
D = 8°00'00"
R = 716.20'
L = 568.43'
T = 300.14'
E = 60.35'
P.C. = Sta. 559+19.17
P.T. = Sta. 564+87.60

℄ SURVEY
CURVE DATA
P.I. = Sta. 579+27.27
Δ = 22°41'10" Lt.
D = 1°00'00"
R = 5,729.58'
L = 2,268.61'
T = 1,149.36'
E = 114.14'

GLENN ORVILLE TAYLOR &
PATRICIA ANN TAYLOR
271 WL
T.B.A. = 20,414 Sq. Ft.
P.R.O. = 2,100 Sq. Ft.
Total = 22,514 Sq. Ft.

MINTA CAMPBELL
272 WL
T.B.A. = 2.53 Ac.
P.R.O. = 0.11 Ac.
Total = 2.64 Ac.

HARRY M. KLUBA &
MILDRED T. KLUBA
273 WL
T.B.A. = 1.36 Ac.

E. C. BRASHEARS
274 WL
T.B.A. = 23,688 Sq. Ft.

ROBERT E. MOREHOUSE &
MARTHA L. MOREHOUSE
276 WL
T.B.A. = 12,821 Sq. Ft.
P.R.O. = 2,050 Sq. Ft.
Total = 14,871 Sq. Ft.

276 T
T.B.A. = 1,772 Sq. Ft.

JESSE R. BROOKS &
GRACIE BROOKS
277 WL
T.B.A. = 166 Sq. Ft.
P.R.O. = 1,142 Sq. Ft.
Total = 1,308 Sq. Ft.

277 T
T.B.A. = 3,356 Sq. Ft.

MONROE R. FRALEY &
LAURA FRALEY
278
T.B.A. = 1,582 Sq. Ft.
P.R.O. = 975 Sq. Ft.
Total = 2,557 Sq. Ft.

278 T
T.B.A. = 1,600 Sq. Ft.

COMPLETION DATE NOV. 17, 1969		
Rev	Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
MATTHEW: M.S. 1138
SCALE: 1" = 50'

R/W STA. 555 TO STA 570 Rt.

34
41

NOV 21 1969

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(3)	

6.32
6.35

3.5
41

CLERMONT COUNTY
CLE 275-6.68
LIMITED ACCESS
R/W PLANS

THE BIBLE BAPTIST CHURCH INC.
280 WL — T.B.A. = 0.35 Ac.; PRO. = 1.89 Ac.; Total = 2.24 Ac.

WILLIE DAVIS & GERTRUDE DAVIS
282 WL — T.B.A. = 6,109 Sq. Ft.; PRO. = 4,125 Sq. Ft.; Total = 10,234 Sq. Ft.
282 — T.B.A. = 1,700 Sq. Ft.; PRO. = 2,119 Sq. Ft.; Total = 3,819 Sq. Ft.
282 EL — T.B.A. = 4,406 Sq. Ft.

ETHEL A. MAYCOX
282A WL — T.B.A. = 0 Sq. Ft.; PRO. = 21,251 Sq. Ft.; Total = 21,251 Sq. Ft.

LELEAH D. RUST
282B WL — T.B.A. = 414 Sq. Ft.; PRO. = 2,091 Sq. Ft.; Total = 2,505 Sq. Ft.

RAY W. DENNISTON & WILMA L. DENNISTON
284 WL — T.B.A. = 1,375 Sq. Ft.; PRO. = 3,251 Sq. Ft.; Total = 4,626 Sq. Ft.

CLERMONT COUNTY OHIO
285 WL — T.B.A. = 4,226 Sq. Ft.

HERBERT FRANK DE FLURIN & NAOMI MARIE DE FLURIN
286 WL — T.B.A. = 1,250 Sq. Ft.; PRO. = 52,107 Sq. Ft.; Total = 53,357 Sq. Ft.

HOWARD M. PEACOCK & ROSEMARIE S. PEACOCK
288 WL — T.B.A. = 2,717 Sq. Ft.
288 — T.B.A. = 75 Sq. Ft.; PRO. = 49 Sq. Ft.; Total = 124 Sq. Ft.

DAVID ALBERT BLACK & DARLENE KAY BLACK
289 WL — T.B.A. = 9,104 Sq. Ft.
289 — T.B.A. = 1,675 Sq. Ft.; PRO. = 1,513 Sq. Ft.; Total = 3,188 Sq. Ft.

ESTIL F. COBURN & GENEVA COBURN
290 — T.B.A. = 8,140 Sq. Ft.

LELEAH D. RUST
290A — T.B.A. = 10,263 Sq. Ft.; PRO. = 483 Sq. Ft.; Total = 10,746 Sq. Ft.

WILLIAM S. RUST & MARY L. RUST
290B — T.B.A. = 4,958 Sq. Ft.; PRO. = 1,000 Sq. Ft.; Total = 5,958 Sq. Ft.

FLOYD CHADWELL & LEILA CHADWELL
290C — T.B.A. = 870 Sq. Ft.; PRO. = 477 Sq. Ft.; Total = 1,347 Sq. Ft.

JAMES E. CAMPBELL & ROSA S. CAMPBELL
291 — T.B.A. = 0.12 Ac.

DOROTHY W. PAGE
292 WL — T.B.A. = 4,650 Sq. Ft.; PRO. = 9,792 Sq. Ft.; Total = 14,442 Sq. Ft.
292 — T.B.A. = 362 Sq. Ft.

PAUL MAHAFFEY & DOROTHY M. MAHAFFEY
293 WL — T.B.A. = 0 Sq. Ft.; PRO. = 806 Sq. Ft.; Total = 806 Sq. Ft.
293 S — T.B.A. 775 Sq. Ft.
293 T — T.B.A = 1,448 Sq. Ft.

NORMA P. DENMAN & DANIEL M. DENMAN
294 — T.B.A. = 0.28 Ac.
294 X — T.B.A. = 0.04 Ac.
294 T — T.B.A. = 0.04 Ac.
294 S — T.B.A. = 0.02 Ac.

IVA YATES
295 — T.B.A. = 7,943 Sq. Ft.; PRO. = 123 Sq. Ft.; Total = 8,066 Sq. Ft.
295 T — T.B.A. = 681 Sq. Ft.

V.C. McAFEE & ICIE McAFEE
296 — T.B.A. = 9,705 Sq. Ft.; PRO. = 1,659 Sq. Ft.; Total = 11,364 Sq. Ft.
296 T — T.B.A. = 75 Sq. Ft.

MADISON BUILDING ASSOCIATION
297 WL — T.B.A. = 10,307 Sq. Ft.; PRO. = 9,383 Sq. Ft.; Total = 19,690 Sq. Ft.
297 — T.B.A. = 3,372 Sq. Ft.; PRO. = 2,204 Sq. Ft.; Total = 5,576 Sq. Ft.

WILLIAM P. HERRMANN & BERNICE E. HERRMANN
298 WL — T.B.A. = 13,589 Sq. Ft.
298 T — T.B.A. = 350 Sq. Ft.

GLENN BERRY & MILDRED BERRY
299 WL — T.B.A. = 7,631 Sq. Ft.

MARY HAWKINS
300 WL — T.B.A = 2,542 Sq. Ft.

MARATHON OIL CO.
281 WL — T.B.A 1,085 Sq. Ft.

C. MONROE DAWSON
283 WL — T.B.A. = 0 Sq. Ft.; PRO = 6,519 Sq. Ft.; Total = 6,519 Sq. Ft.

JAMES L. HAYES & AUDREY J. HAYES

FRANK WEISS & LUCILLE WEISS

MATTHEW MS. 1138 — MOSLEY MS. 1115

ALBATROS ENTERPRISE, INC.

MARJORIE B. KAVANAGH

WILLIAM A. KAVANAGH & MARJORIE B. KAVANAGH

THE SULLIVAN PRINTING WORKS COMPANY

ANDY FOOS

JOSEPH WILKEN & ELEANOR WILKEN

CLINTON R.R.D.

MATCH LINE STA. 55+00

MATCH LINE STA. 552+00

RAMP "F"

CURVE DATA (F1)		CURVE DATA (F2)	
P.I.	Sta. 551+84.96	P.I.	Sta. 555+62.83
Δ	47°19'19" Rt.	Δ	8°00'00" Rt.
D	8°00'00"	D	4°00'00"
R	716.20'	R	1,432.39'
L	591.52'	L	200.00'
T	313.81'	T	100.16'
E	65.73'	E	3.50'
P.C.	Sta. 548+71.15	P.C.C.	Sta. 554+62.67
P.C.C.	Sta. 554+62.67	P.T.	Sta. 556+62.67

RAMP "J"

CURVE DATA (J1)		CURVE DATA (J2)	
P.I.	Sta. 545+76.30	P.I.	Sta. 549+78.84
Δ	14°31'30" Rt.	Δ	34°26'13" Rt.
D	4°00'00"	D	8°00'00"
R	1,432.39'	R	716.20'
L	363.13'	L	430.46'
T	182.54'	T	221.95'
E	11.58'	E	33.60'
P.C.	Sta. 543+93.76	P.C.C.	Sta. 547+56.89
P.C.C.	Sta. 547+56.89	P.T.	Sta. 551+87.35

RUST LANE EXTENSION

CURVE DATA (1)		CURVE DATA (2)	
P.I.	Sta. 11+71.30	P.I.	Sta. 15+79.09
Δ	48°30'00" Rt.	Δ	49°13'00" Lt.
D	21°00'00"	D	21°00'00"
R	272.84'	R	272.84'
L	230.95'	L	234.36'
T	122.90'	T	124.96'
E	26.40'	E	27.26'
P.C.	Sta. 10+48.44	P.C.	Sta. 14+54.11
P.T.	Sta. 12+79.34	P.T.	Sta. 16+88.47

CURVE DATA
S.R. 32
P.I. = Sta. 60+38.64
Δ = 2°11'00" Rt.
D = 0°20'00"
R = 17,188.74'
L = 655.00'
T = 327.54'
E = 3.12'
P.C. = Sta. 57+71.10
P.T. = Sta. 64+26.10

COMPLETION DATE NOV. 17, 1969		
Rev.	Date:	Description

DETAIL "A"

CLERMONT COUNTY
UNION TOWNSHIP
MATTHEW MS. 1138
MOSLEY MS. 1115
SCALE: 1" = 50'
STATE ROUTE 32
STA. 55 to STA. 70

3.5
41

NOV 21 1969

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

6.33
6.38

CLERMONT COUNTY
CLE.275-6.60
LIMITED ACCESS
R/W PLANS

3G
41

RAMP "H"

CURVE DATA (H2)
P.I. = Sta. 551+51.22
Δ = 35°10'05" Lt.
D = 8°00'00"
R = 716.20'
L = 439.60'
T = 226.97'
E = 35.11'
P.C. = Sta. 549+24.25
P.C.C. = Sta. 553+63.85

CURVE DATA (H3)
P.I. = Sta. 555+42.26
Δ = 14°11'59" Lt.
D = 4°00'00"
R = 1432.39'
L = 354.99'
T = 178.41'
E = 11.07'
P.C.C. = Sta. 553+63.85
P.T. = Sta. 557+18.84

ELMER H. HATHORN &
CHARLENE HATHORN
301

259
T-3

S 29°40'16" E
278.10'

+10
110'

+75
110'

+50
45'

+10
57.07'

N 37°46'02" E
33.85'

N 37°46'02" E
22.83'

60.44'

45.31'

N 37°46'02" E

+75
64.69'

Dirt Field Drive
to be Abandoned

+10
70'

"H"

S 57°17'38" E
246.15'

Construction Limits

20' Easement
Cincinnati Gas & Electric Co.
B. 24 Pg. 421

259
DOROTHY CRULL

Sta. 93+50.86 S.R. 32 =
Sta. 557+18.84 Ramp H

S 64°36'57" E
647.26'

Existing
Easement

LAR/W

Exist. LAR/W

+00
125'

S 51°57'00" E
103.08'

+00
100'

S 65°59'10" E
298.04'

Existing
Easement

Exist. LAR/W

Woven Wire

S 5°02'42" W

MATCH LINE STA 88+00

MATCH LINE STA 105+00

RAMP "H"

552

533

554

555

556

557

30'

12'

90° Tan. to Curve

259
WL

89 90 91 92 93 94 95 96 97 98 99 100 101 102

℄ S.R. 32

S 65°59'10" E

+98.71

Arc = 969.45'
Rad = 1927.17'
Chd = 959.26'
Brg = S 80°06'54" E

31°25'56"
Tan. to Curve

S 65°42'14" E
855.72'

1109.49'

RAMP "L"

546

545

547

548

Woven Wire

Exist. LAR/W

L1

L2

261
WL

Construction Limits

202.97'

S 71°43'08" E

Exist. 12" Steel Casing

Exist. LAR/W

623.88'

S 65°59'10" E

LAR/W

635.42'

S 67°39'23" E

Water Valve
Fire Hydrant

1.8' G to LAE/W

Sta. 92+45.94 S.R. 32
Sta. 544+23.32 Ramp "L"

261
WL

253.77'
(250.71 Deed)

302
WL

1.17.22'

Woven Wire

S 70°52'48" E

303

S 65°59'10" E

100.00'

14.74'

36.81'

+50
110'

+98.71

+46.19
100'

+46.19

ROBERT BECHT
304
WL
T.B.A. = 0.30 Ac.

THE MT. CARMEL - GLEN ESTE BOOSTERS INC.
302
WL
T.B.A. = 0.01 Ac.
P.R.O. = 0.31 Ac.
Total = 0.32 Ac.

N 56°42'50" E

2261.71'

S 79°52'46" E

+50
75'

275.44'

N 81°49'29" E

+00
75'

261

O.M.N.I. DEVELOPMENT COMPANY

CURVE DATA (L2)
P.I. = Sta. 548+38.42
Δ = 33°26'03" Lt.
D = 8°00'00"
R = 716.20'
L = 417.93'
T = 215.10'
E = 31.60'
P.C.C. = Sta. 546+23.32
P.T. = Sta. 550+41.25

RAMP "L"

CURVE DATA (L1)
P.I. = Sta. 545+23.48
Δ = 8°00'00" Lt.
D = 4°00'00"
R = 1432.39'
L = 200.00'
T = 100.16'
E = 3.50'
P.C. = Sta. 544+23.32
P.C.C. = Sta. 546+23.32

N 56°42'50" E

178.87'

20' Easement
Cincinnati Gas & Electric Co.
B. 24 Pg. 428

Valve & Meter Pit

1 Sty. Br. Business

Conc.

Conc. Wall

Conc.

Gravel

OMNI DRIVE
(CORRO 324)

6" Water Main

1178.90' to the ℄ of
Aichholtz Road

8" Water Main from
Aichholtz Rd.

Exist. R/W

COMPLETION DATE NOV. 17, 1969		
Rev.	Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
MATTHEW M.S. 1138
SCALE: 1" = 50'

STATE ROUTE 32
STA. 88 to STA. 103

3G
41

NOV. 21 1969

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

CLERMONT COUNTY
CLE-275-6.66
LIMITED ACCESS
R/W PLANS

634
635

37
41

DETAIL "B" (See Sheet No. 35)

PAUL MAHAFFEY & DOROTHY M. MAHAFFEY

NORMA P. DENMAN & DANIEL M. DENMAN

℄ SURVEY CURVE DATA
P.I. = Sta 579+27.27
D = 1°00'00"
Δ = 22°41'10" Lt.
R = 5729.58'
L = 2,268.61'
T = 1,149.36'
E = 114.14'

MERRIWETHER M.S. 1136 ℄ MATTHEW M.S. 1138

Tree Line

N 65°25'46" W

END PROJECT STA. 579+87.60

Woven Wire 5 Strand Barbed Wire

Cultivated (Hay Field)

Corn Field

Pasture

4 Strand Barbed Wire

Acquired Under Project CLE. 275-10.89, HAM 275-33.96

312

267
GEORGE F. AICHOLTZ & CALVIN D. AICHOLTZ

S 29°18'24" W
389.56'

+00
145'

LAR/W

Corn Field

S 20°41'52" W
697.58'

Construction Limits

+16.22
156'

133.76'

MERRIWETHER M.S. 1136

MORROW M.S. 666

Corn Field

Woven Wire 1-Strand Barbed Wire

Dirt Field Drive

MATCH LINE STA 570+00

571 572 573 574 575 576 577 578 579 580 581 582 583 584

SURVEY L.P. 275

S 29°19'20" W

267 WL

311 WL

Wooded Area

Woven Wire

+47.64
25.36'

Future Proposed Pavement

Evergreens

S 6°38'10" W

Cultivated

Corn Field

710.12'

436.81'
S 25°23'17" W

Wooded Area

LAR/W

41.047'

Construction Limits

333.66'
S 16°32'43" W

LAR/W

(L.L.)
S 85°11'07" W

+72.44
126.51'

+70
190'

Open Field

Open Field

Wooded Area

Corn Field

312

MATTHEW M.S. 1138
MOSLEY M.S. 1115

STUART H. JACOBS

311 WL T.B.A. = 1.93 Ac.

MORROW M.S. 666
MOSLEY M.S. 1115

+92.10
76.95

END R/W ACQUISITION STA. 579+53.52

COMPLETION DATE NOV. 17, 1969		
Rev.	Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
MATTHEW M.S. 1138
MOSLEY M.S. 1115
MERRIWETHER M.S. 1136
MORROW M.S. 666
SCALE: 1" = 50'

R/W STA. 570 TO STA. 585

37
41

NOV 21 1969

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

(6.33 / 6.38)

CLERMONT COUNTY
CLE.-275-6.68
LIMITED ACCESS
R/W PLANS

(38 / 41)

JOHN J. SCHMIDT &
RUTH ANN SCHMIDT

(310) T.B.A. = 1,858 Sq. Ft.
P.E.O. = 2,616 Sq. Ft.
Total = 4,474 Sq. Ft.

(310 T) T.B.A. = 2,333 Sq. Ft.

MARY DOROTHY HILL

(313 T) T.B.A. = 3,280 Sq. Ft.

JEWELL B. HARGIS &
GENEVA J. HARGIS

(314) T.B.A. = 1,096 Sq. Ft.
P.E.O. = 1,999 Sq. Ft.
Total = 3,095 Sq. Ft.

(314 T) T.B.A. = 1,809 Sq. Ft.

RELOCATED AICHOLTZ RD.
CURVE DATA
P.I. Sta. 31+03.50
Δ = 98°08'48" Rt.
D = 38°11'50"
R = 150.00'
L = 256.95'
T = 173.00'
E = 78.98'
P.C. Sta. 29+30.50
P.T. Sta. 31+87.45

AICHOLTZ RD. CONN.
CURVE DATA
P.I. = Sta. 11+23.00
Δ = 44°47'33" Rt.
D = 71°37'11"
R = 80.00'
L = 62.54'
T = 32.97'
E = 6.53'
P.C. = Sta. 10+90.03
P.T. = Sta. 11+52.57

HAROLD FLANNERY "TR"

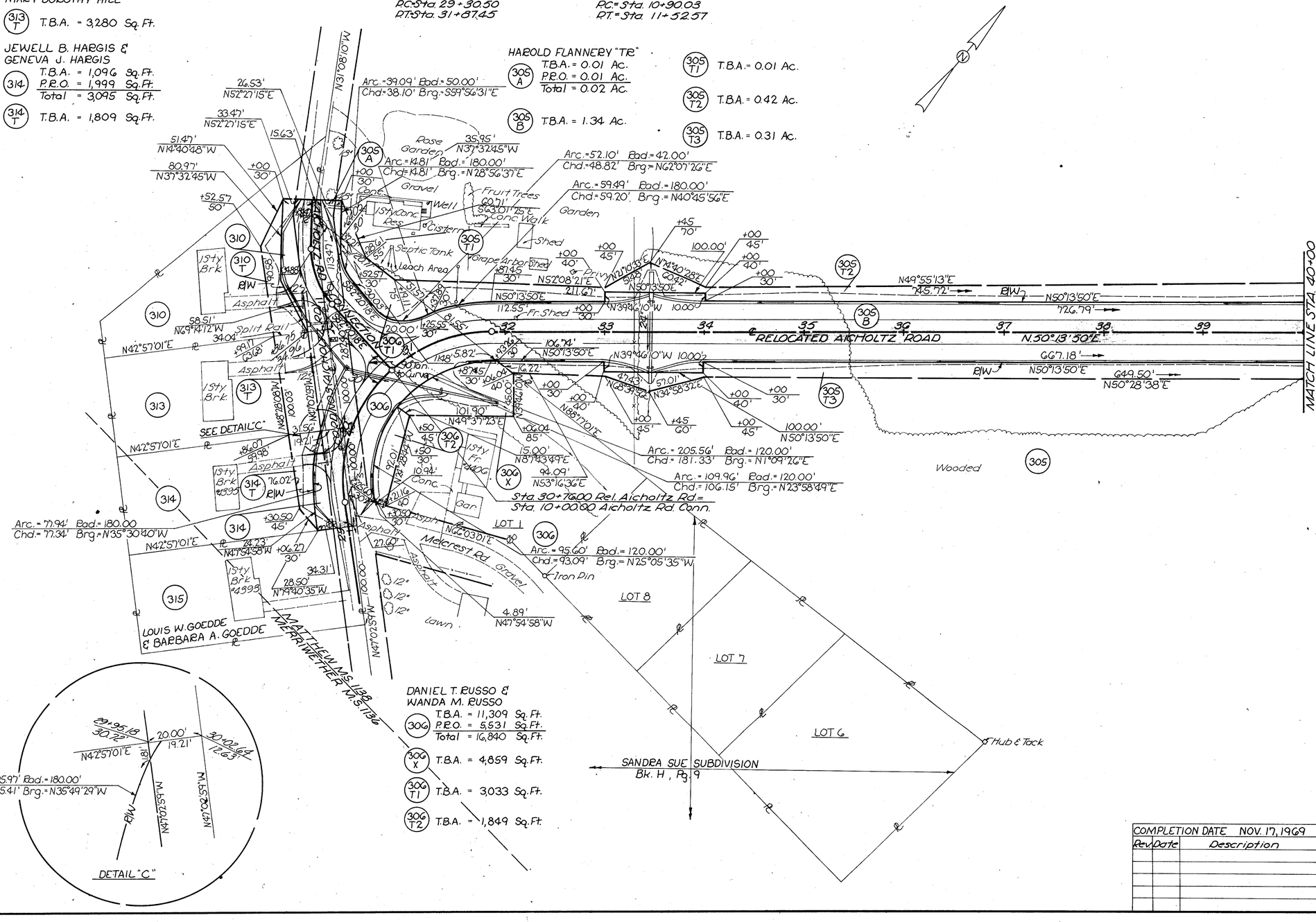
(305 A) T.B.A. = 0.01 Ac.
P.E.O. = 0.01 Ac.
Total = 0.02 Ac.

(305 B) T.B.A. = 1.34 Ac.

(305 T1) T.B.A. = 0.01 Ac.

(305 T2) T.B.A. = 0.42 Ac.

(305 T3) T.B.A. = 0.31 Ac.



DANIEL T. RUSSO &
WANDA M. RUSSO

(306) T.B.A. = 11,309 Sq. Ft.
P.E.O. = 5,531 Sq. Ft.
Total = 16,840 Sq. Ft.

(306 X) T.B.A. = 4,859 Sq. Ft.

(306 T1) T.B.A. = 3,033 Sq. Ft.

(306 T2) T.B.A. = 1,849 Sq. Ft.

COMPLETION DATE NOV. 17, 1969		
Rev.	Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
MATTHEW M.S. 1138
SCALE: 1" = 50'

RELOCATED AICHOLTZ ROAD
STA. 29+05.50 ~ STA. 40+00

(38 / 41)

NOV 21 1969

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

6.36
6.28

39
41

CLERMONT COUNTY
CLE. 275 - 6.68
LIMITED ACCESS
R/W PLANS

RELOCATED AICHOLTZ RD.
CURVE DATA
P.I. = Sta. 44+88.68
Δ = 32°15'23" Lt.
D = 10°00'00"
R = 572.96'
L = 322.56'
T = 165.68'
E = 23.47'
P.C. = Sta. 43+23.00
P.T. = Sta. 46+45.56

TACAN INC.

(303) T.B.A. = 1.05 Ac.

(303 T1) T.B.A. = 0.33 Ac.

(303 T2) T.B.A = 0.42 Ac.

THE MT. CARMEL-GLEN ESTE BOOSTERS, INC.
(302)

HAROLD FLANNERY "TR."
(305)

N5°02'42"E 746.71'

MATCH LINE STA. 40+00

633.54' to southwesterly property corner

(305 T2)

745.72'
726.79'
667.18'
649.50'
(305 T3)

+26.79 49.04'
+45.71
26.84'
84.58'
N50°13'50"E
Constr. Limits
+23 30'
+23 50'
N49°56'13"E 177.29'
196.21'
255.82'
N50°13'50"E
357.04'
N50°28'38"E
+67.18 30'
+49.50 47.80'
25.09' N5°02'42"E

(305)
(303)
(303 T1)
(303 T2)

RELOCATED AICHOLTZ RD.
41 42 43 44 45 46 47 48 49

Arc. = 294.41' Rad. = 522.96'
Chd. = 290.54' Brg. = N34°06'08"E

Arc. = 305.67' Rad. = 542.96'
Chd. = 301.65' Brg. = N34°06'08"E

E/W

+45.56 30'
+45.56 50'
220.47' N16°40'29"E
Construction Limits
Dirt N17°58'27"E 217.77'
N17°58'27"E
154.44'
N17°58'27"E
+00 30'
+00 55'
+45.56 55'
+45.56 30'
208.78' N17°58'27"E
+56.46 35'
20.11'
+54.34 55'
56.68' N23°02'07"E
S45°59'17"E

Arc. = 269.13' Rad. = 627.96'
Chd. = 267.08' Brg. = N30°15'08"E

Arc. = 339.45' Rad. = 602.96'
Chd. = 334.99' Brg. = N34°06'08"E

Exist. Easement
25.14'
+65.98 55'
+63.33 30'
Exist. Easement

Sta. 106+40.00 State Route 32
Sta. 49+60.72 Relocated Aicholtz Rd.

STATE ROUTE 32
104
105
106
107
108
27'
49 89°57'37"
Concrete
Concrete

COMPLETION DATE NOV. 17, 1969		
Rev.	Date	Description

CLERMONT COUNTY
UNION TOWNSHIP
MATTHEW M.S. 1138
SCALE: 1"=50'

RELOCATED AICHOLTZ ROAD
STA. 40 TO STA. 49+60.72'

39
41

NOV 21 1969

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

6.37
6.38

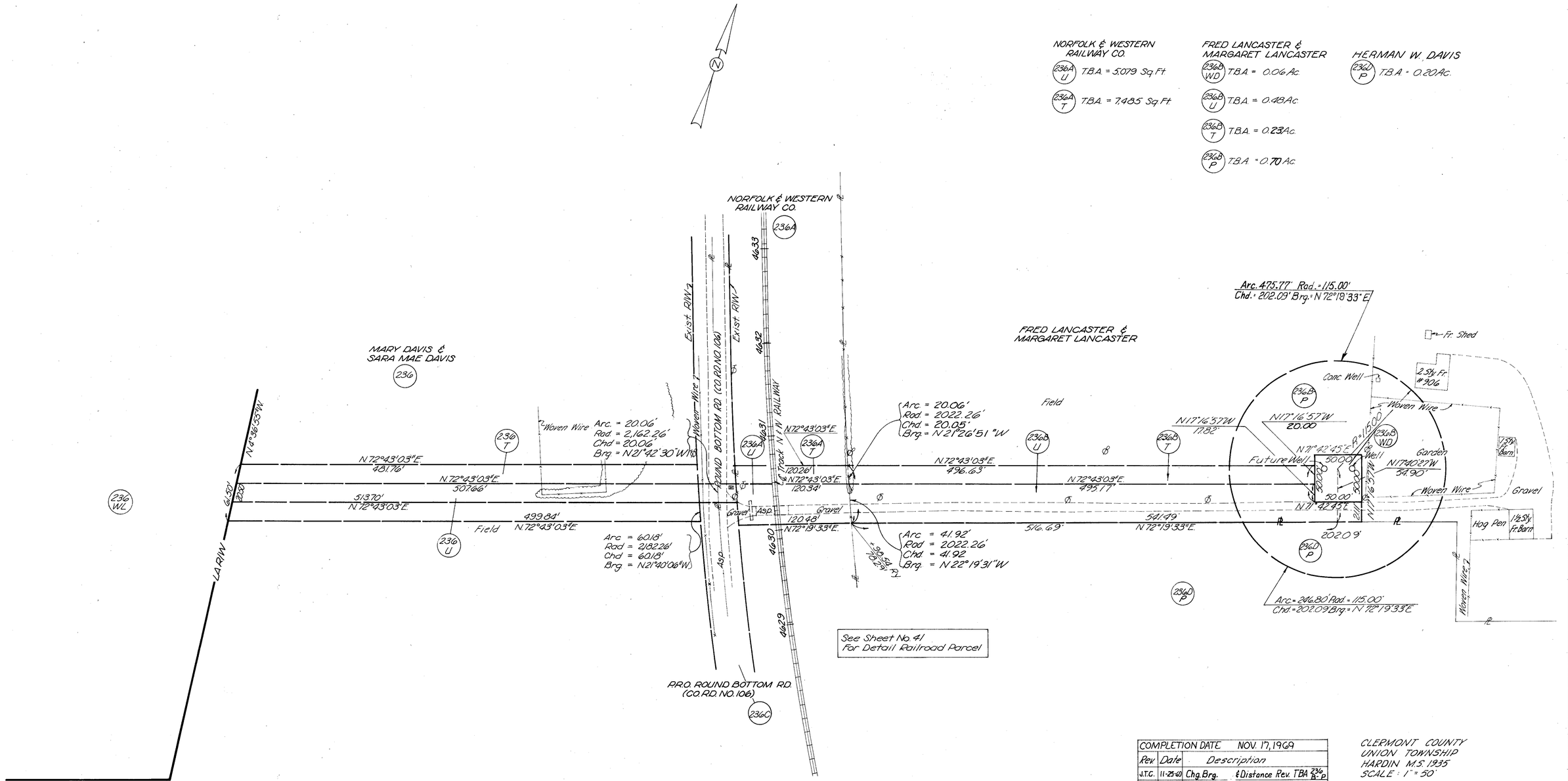
40
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CLERMONT COUNTY
CLE 275-6.68
LIMITED ACCESS
R/W PLANS

NORFOLK & WESTERN RAILWAY CO.
(236A U) T.B.A. = 5079 Sq. Ft.
(236A T) T.B.A. = 7485 Sq. Ft.

FRED LANCASTER & MARGARET LANCASTER
(236B WD) T.B.A. = 0.06 Ac.
(236B U) T.B.A. = 0.18 Ac.
(236B T) T.B.A. = 0.23 Ac.
(236B P) T.B.A. = 0.70 Ac.

HERMAN W. DAVIS
(236D P) T.B.A. = 0.20 Ac.



See Sheet No. 41
For Detail Railroad Parcel

COMPLETION DATE NOV. 17, 1969		
Rev	Date	Description
J.T.G.	11-25-69	Chg. Brg. & Distance Rev. TBA 236 B-P

CLERMONT COUNTY
UNION TOWNSHIP
HARDIN M.S. 1935
SCALE: 1" = 50'

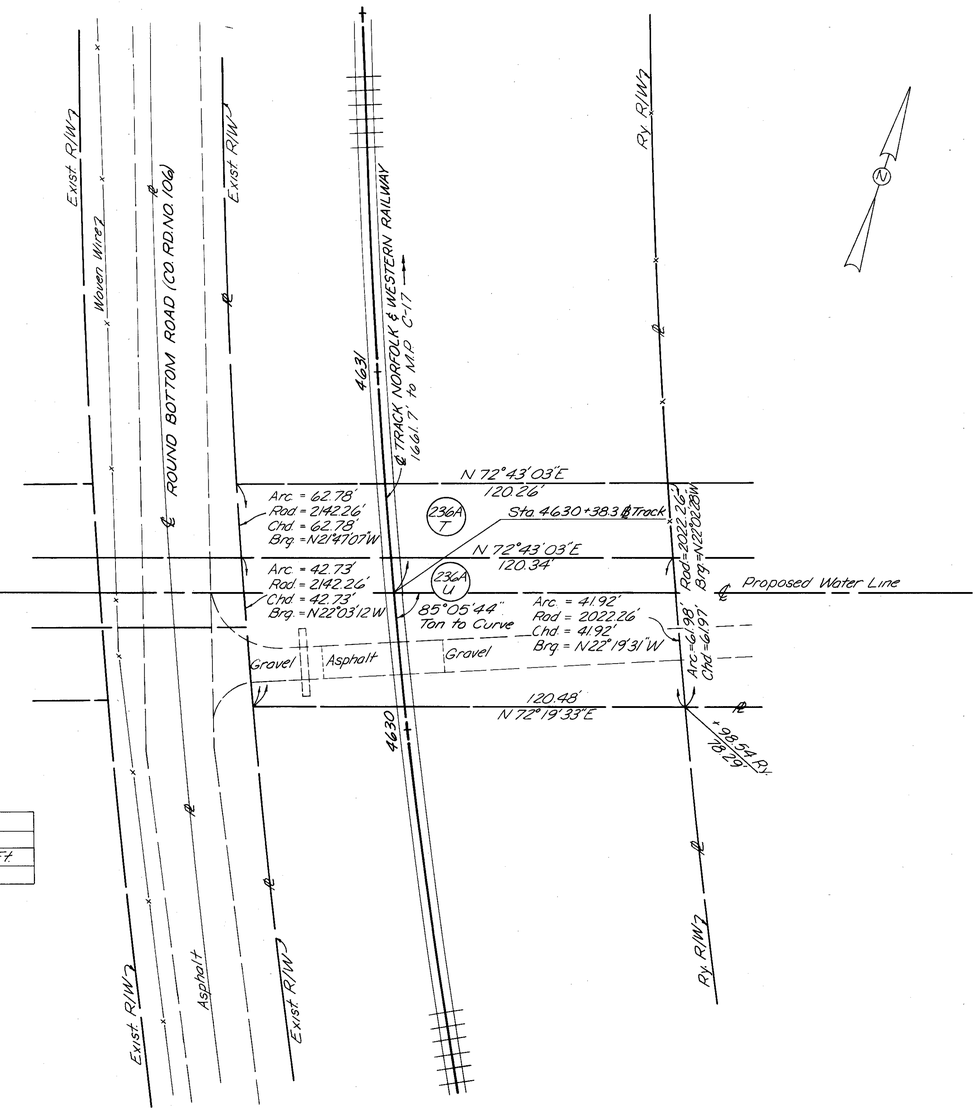
40
41

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-275-2(9)	

CLERMONT COUNTY
CLE. 275-6.68
LIMITED ACCESS
R/W PLANS

6.38 / 6.38

41 / 41



Note:
Valuation Survey Stations shown are referred to those shown on Railroad Company R/W Track Map V-18-0, Sheet 138.

PARCEL NUMBER	EASEMENT REQUIRED	TOTAL AREA	AREA OF OVERLAP	
			UTILITY	TEMPORARY
236A-U	Utility	5079 Sq Ft		5079 Sq Ft
236A-T	Temporary	7485 Sq Ft	2406 Sq Ft	

R.R CURVE DATA
P.I Sta. 4631+38.30
Δ = 4°11'52"
D = 2°06'00"
R = 2728.52'
T = 99.99'
L = 199.90'
E = 1.83

CLERMONT COUNTY
UNION TOWNSHIP
HARDIN M.S. 1935
SCALE: 1"=20'

COMPLETION DATE NOV. 17, 1969

Rev	Date	Description

41 / 41