FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	F-602(14)	

1/146

LOR-82-(4.79-12.47)

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

LOR-82-(4.79-12.47)

F-602(14)

LORAIN COUNTY
EATON AND COLUMBIA TOWNSHIPS

CONVENTIONAL SIGNS

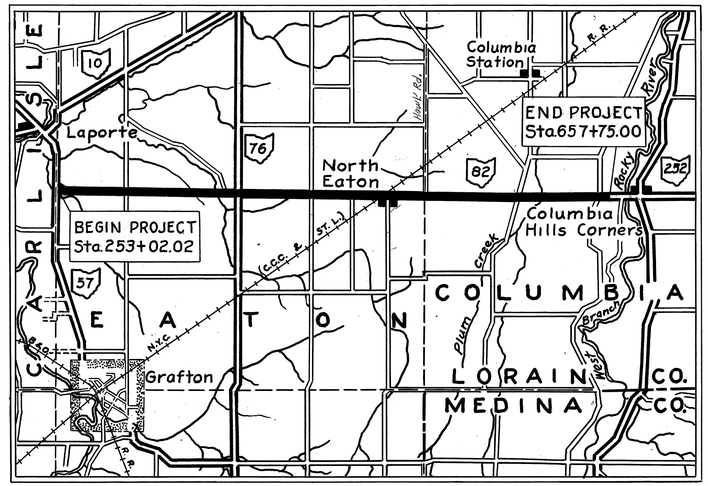
COUNTY LINE
TOWNSHIP LINE
SECTION LINE
CORPORATION LINE
FENCE LINE
CENTER LINE
POLE LINE (TELEPHONE & POWER)
RAILROAD
GUARD RAIL (EXISTING & PROPOSED)
PROPERTY LINE

INDEX OF SHEETS

TITLE SHEET	1
TYPICAL SECTIONS	2,3
SPECIAL CONSTRUCTION DETAIL	4
GENERAL NOTES	5
SUMMARY	6-8
PLAN AND PROFILE	9-45A
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INTERSECTION	101-114
CHANNEL	115-120
STRUCTURES (20' SPAN & UNDER)	121
(OVER 20' SPAN)	122-130
RIGHT-OF-WAY	131-146

LINE DATA

	WORK	PROJECT
BEGIN STATION	253+02.02	253+02.02
END STATION	658+00.00	657+75.00
GROSS LENGTH	40,497.98 LIN. FT.	40,472.98 LIN. FT.
DEDUCTIONS (from Sta. 489+53.23 to Sta. 489+89.81)	36.58 LIN. FT.	36.58 LIN. FT.
NET LENGTH	40,461.40 LIN. FT.	40,436.40 LIN. FT.
	7.663 MILES	7.658 MILES



DELIVERY POINT NORTH EATON AVERAGE HAUL 2.3 MI.

LOCATION MAP

Scale 1" = 1 MI.

PORTION TO BE IMPROVED
STATE HIGHWAYS
OTHER ROADS

SCALES

PLAN	1" = 50'
PROFILE HORIZONTAL	1" = 50'
PROFILE VERTICAL	1" = 5'
CROSS SECTIONS	1" = 5'
OTHER SHEETS AS SHOWN	

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 the 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 the plans and estimates.

Approved W R Hauserman
Date 10-4-57 Division Deputy Director

Approved C K Wahlberg
Date 1-6-58 Deputy Director of Planning and Programming

Approved D H Overman
Date 12-5-57 Engineer of Bridges

Approved R E Shultz
Date 12-10-57 Engineer of Location and Design

Approved P E Masleter
Date 12-10-57 Deputy Director of Design and Construction

Approved
Date First Assistant Director

Approved George J. Thomas
Date 1/7/58 Acting Director of Highways

JUN 8 1961
GROUND PHOTOLAB

STANDARD CONSTRUCTION DRAWINGS

L-1	4-1-50	I-8 CB 2-2A&B	8-1-56	I-15 NO. 4	12-1-54
L-3	4-1-50	I-8 CB 2-3&2-4	5-1-52	CS-1-54 (2 Sheets)	7-16-56
L-3-A	4-1-50	I-8 I NO. 1	5-1-52	A-1-54	12-1-54
RI-1	1-3-55	I-8 MH NO. 1	5-1-52	P-1-54	12-1-54
G 7.07	6-1-56	I-8 MH NO. 1-A	1-3-55	AS-1-54	12-1-54
T-35	1-2-56	I-15 NO. 1	8-1-55		
S-27 P.C. 3	2-20-45				
S-27 P.C. 4	1-4-54	I-15 NO. 2-A	6-1-57		
I-1,2,3,4,& 5	2-20-45				

SUPPLEMENTAL SPECIFICATIONS

E-101	1-1-57	✓			
B-119 Rev.	8-11-57	✓			
M-206.6(b)	5-25-56	✓			

FILE NO. 2884 — LOR-82-(4.79-12.47) — DATE OF LETTING — CONTRACT NO.

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED

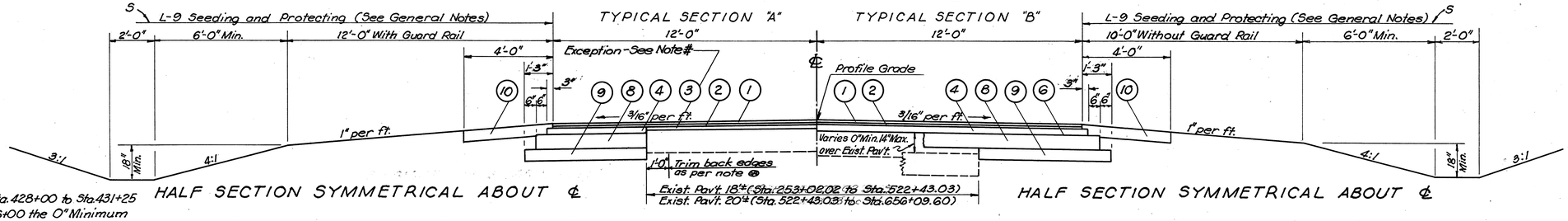
DIVISION ENGINEER DATE

TYPICAL SECTIONS
TYPE T-35

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

2 / 146

LOR-82-(4.79-12.47)



HALF SECTION SYMMETRICAL ABOUT ℄

HALF SECTION SYMMETRICAL ABOUT ℄

\# Note: At two locations Sta. 428+00 to Sta. 431+25 and Sta. 621+00 to Sta. 626+00 the 0" Minimum Course shall consist of B-35 Base Material in place of the B-35 Pre-Leveling Material. In these two locations no B-119 or I-22 Material shall be placed on the existing pavement, depth of B-35 Base Material will vary to the depth required to obtain the proposed profile grade.

Code G201: Sta. 522+43.03

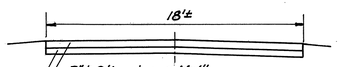
Sta. 254+00	to	Sta. 255+75	=	175.00	Lin. Ft.
Sta. 2G7+00	to	Sta. 3G5+75.92	=	9875.92	Lin. Ft.
Sta. 3G7+12.08	to	Sta. 420+50	=	5337.92	Lin. Ft.
Sta. 428+00	to	Sta. 474+92.20	=	4G92.20	Lin. Ft.
Sta. 475+41.10	to	Sta. 484+20	=	878.90	Lin. Ft.
Sta. 492+90	to	Sta. 590+75	=	10685.00	Lin. Ft.
Sta. 60G+75	to	Sta. G49+75	=	4300.00	Lin. Ft.
		TOTAL	=	35944.94	Lin. Ft.

Code G706

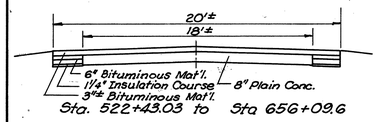
Sta. 420+50	to	Sta. 423+00	=	250.00	Lin. Ft.
Sta. 42G+42.37	to	Sta. 428+00	=	157.63	Lin. Ft. — Code G201
Sta. 484+20	to	Sta. 485+35	=	115.00	Lin. Ft. — Code G201
Sta. 491+00	to	Sta. 492+90	=	190.00	Lin. Ft. — Code G201
Sta. 604+40	to	Sta. 60G+75	=	235.00	Lin. Ft. — Code G706
		TOTAL	=	947.63	Lin. Ft.

⊛ NOTE: Existing pavement to be salvaged between Sta. 254+00 and Sta. 522+43.03 as per Typical Section "A", "B" or "D" shall have the edges trimmed back approximately one (1) foot where widening is to be placed adjacent to it. Pavement widening quantities in these areas are based on 16 feet of salvagable pavement. Other pavement widening quantities are based on 20 feet of salvagable pavement.

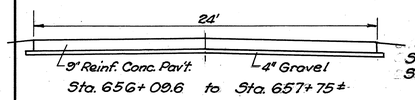
EXISTING PAVEMENT TYPES



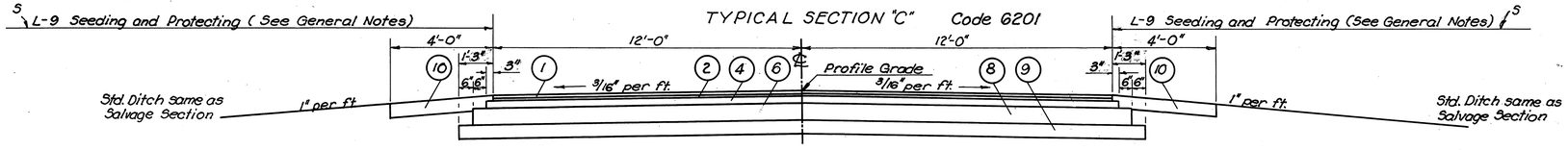
Sta. 253+02.02 to Sta. 522+43.03



Sta. 522+43.03 to Sta. 65G+09.6



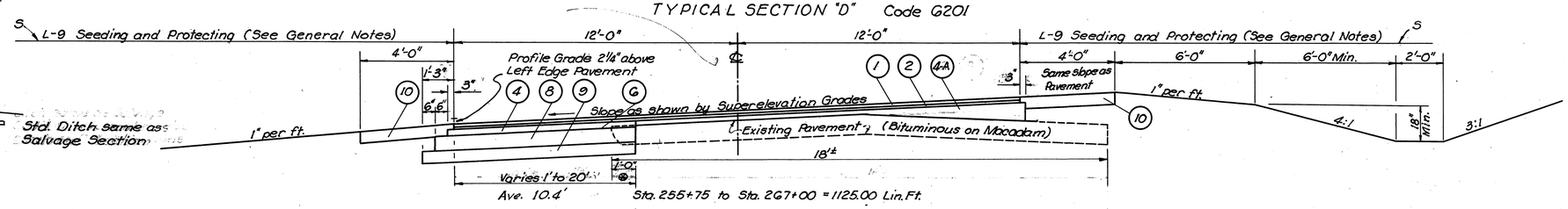
Sta. 65G+09.6 to Sta. 657+75±

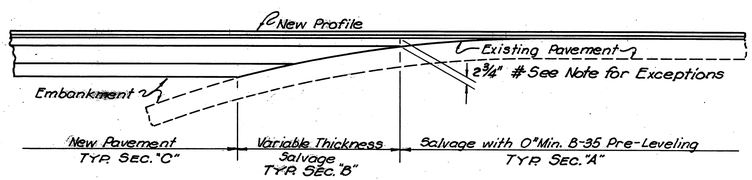


Sta. 423+00	to	Sta. 425+25.63	=	225.63	Lin. Ft.
Sta. 485+35	to	Sta. 489+53.23	=	418.23	Lin. Ft.
Sta. 489+89.81	to	Sta. 491+00	=	110.19	Lin. Ft.
Sta. 599+75	to	Sta. 600+76.47	=	101.47	Lin. Ft.
Sta. 601+99.53	to	Sta. 604+40	=	240.47	Lin. Ft.
Sta. G49+75	to	Sta. 657+25	=	750.00	Lin. Ft.
		TOTAL	=	1845.99	Lin. Ft.

Sta. 253+02.02 to Sta. 254+00
See Intersection Details Sheet No. 101

TYPICAL SECTION "D" Code G201

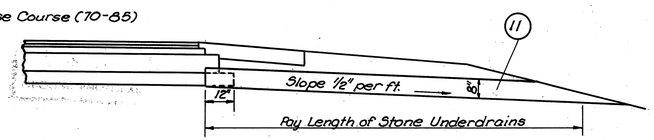




GRAPHIC REPRESENTATION OF VARIOUS COURSES IN LONGITUDINAL PROFILE

(1) T-35 1½" Asphaltic Concrete Surface Course, Type "A" (70-85)
(2) B-35 1¼" Asphaltic Concrete Leveling Course (70-85)
(3) B-35 0" Min. Asphaltic Concrete Pre-Leveling Course (70-85)
(4) B-35 2¾" Asphaltic Concrete Base Course (70-85)
(4-A) B-35 0" Min. Asphaltic Concrete Base Course (70-85)
(5) B-35 Sealing Vertical Face of Existing Pavement
(6) T-30 Bituminous Prime Coat: Sec. M-5.2 RC-1 or RC-2; or Sec. M-5.3 MC-0 or MC-1 applied at the rate of 0.35 gal. per Sq. Yd.
(7) T-30 Bituminous Tack Coat: Sec. M-5.5, MS-2 or RS-1; or Sec. M-5.2, RC-1 or RC-2 applied at the rate of 0.10 gal. per Sq. Yd.
* (8) B-119 8" Crushed Aggregate Base Course
* (9) I-22 6" Subbase
(10) I-18 6" Stabilized Crushed Aggregate Shoulders and Approaches (See note in proposal for details of Calcium Chloride to be incorporated into the upper 3 inches of this item)
(11) I-9 Stone Underdrains No 2
(12) E-8 Removal and Disposal of Existing Pavement

* On Typical "B" the Thickness may vary as shown



DETAIL OF STONE UNDERDRAINS NO. 2

NOTE: Details of Shoulders, Slopes and Ditches not shown are to conform with Standard Drawing No. RI-1 unless otherwise shown on Cross Sections.

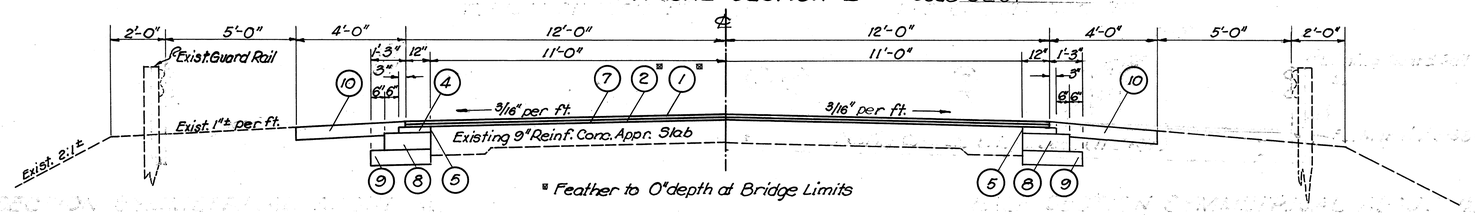
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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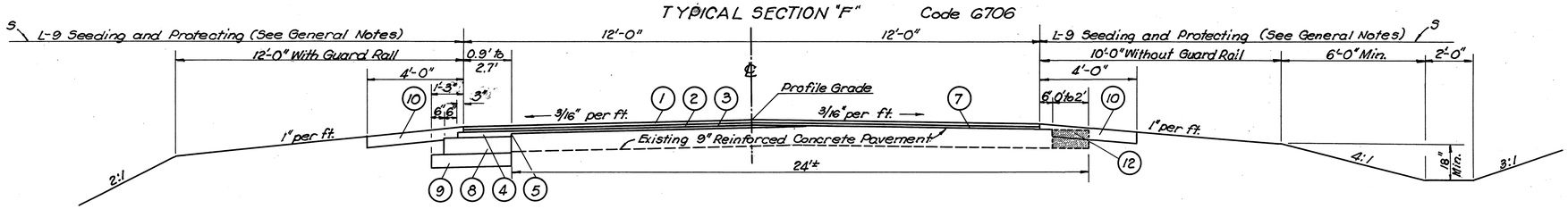
TYPICAL SECTIONS
TYPE T-35

TYPICAL SECTION "E" Code 6201



Sta. 474+92.20 to Sta. 475+07.20 = 15.00 Lin. Ft.
Sta. 475+26.10 to Sta. 475+41.10 = 15.00 Lin. Ft.
TOTAL = 30.00 Lin. Ft.

TYPICAL SECTION "F" Code 6706



Sta. 657+25.00 to Sta. 657+75.00 = 50.00 Lin. Ft.

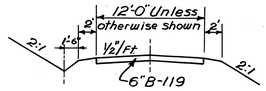
(1) T-35 1½" Asphaltic Concrete Surface Course, Type "A" (70-85)
(2) B-35 1¼" Asphaltic Concrete Leveling Course (70-85)
(3) B-35 0" Min. Asphaltic Concrete Pre-Leveling Course (70-85)
(4) B-35 2¾" Asphaltic Concrete Base Course (70-85)
(5) B-35 Sealing Vertical Face of Existing Pavement
(6) T-30 Bituminous Prime Coat: Sec. M-5.2 RC-1 or RC-2; or Sec. M-5.3 MC-0 or MC-1 applied at the rate of 0.35 Gal. per Sq. Yd.
(7) T-30 Bituminous Tack Coat: Sec. M-5.5 MS-2 or RS-1; or Sec. M-5.2 RC-1 or RC-2 applied at the rate of 0.1 Gal. per Sq. Yd. as per Section T-30.02
(8) B-119 8" Crushed Aggregate Base Course
(9) I-22 6" Subbase
(10) I-18 6" Stabilized Crushed Aggregate Shoulders and Approaches (See note in proposal for details of Calcium Chloride to be incorporated into the upper 3 inches of this item.)
(11) I-9 Stone Underdrains No. 2
(12) E-8 Removal and Disposal of Existing Pavement

Note: Details of Shoulders, Slopes and Ditches not shown are to conform with Standard Drawing No. R1-1 unless otherwise shown on Cross Sections.

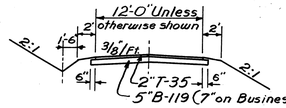
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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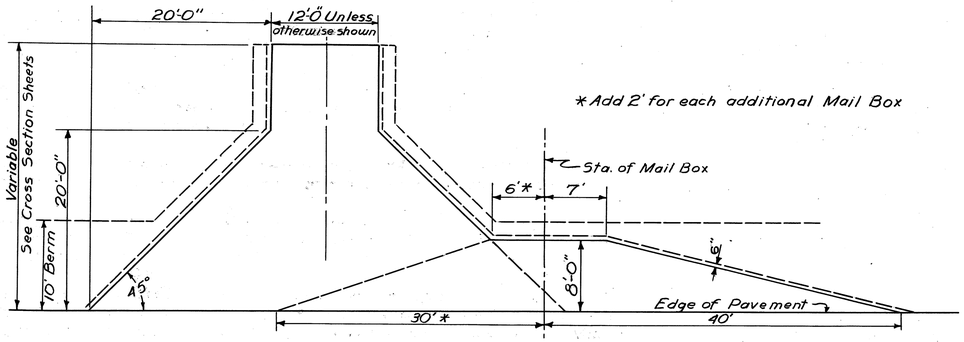
LOR-82-(4.79-12.47)



TYPICAL AGGREGATE DRIVE SECTION



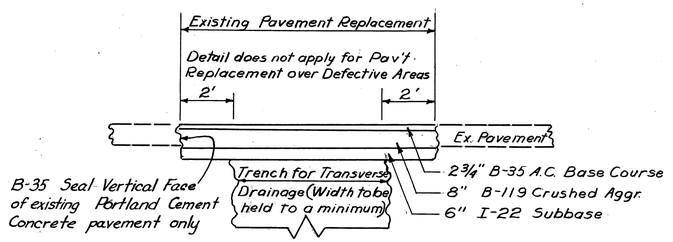
TYPICAL DRIVE SECTION T-35 ON B-119



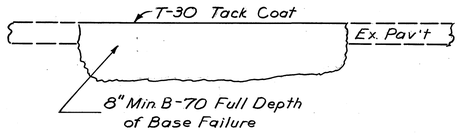
Where feasible, drives shall be combined with Mail Box Turnouts as shown placing the Turnout to the right side of the Drive. Quantities to be adjusted by the Engineer.

T-35 2" A.C. Surface Course	Estimated	243	C.Y.
B-119 5" Crushed Aggregate Base Course	Estimated	658	C.Y.

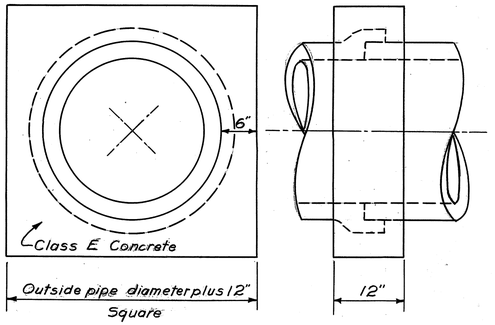
TYPICAL DRIVE AND MAIL BOX TURNOUT



PAV'T REPLACEMENT OVER STRUCTURES
TYPE I



PAV'T REPLACEMENT AT BASE FAILURES
TYPE II



CONCRETE PIPE COLLAR

SPECIAL HEADWALL DETAILS

NOTE: The special details for headwalls are shown on the plan sheet where the structure appears.

EARTHWORK TABLE

From Sheet	Excavation	Embankment	Emb. +25%
	CODE 6201		
5	409		
9	2189	725	906
10	2221	1129	1411
11	2510	1319	1649
12	1978	983	1229
13	2880	1768	2210
14	1836	1112	1390
15	1341	1053	1316
16	1502	1164	1455
17	2005	1264	1580
18	2166	1092	1365
19	1920	1268	1585
20	2585	1078	1348
21	1324	408	510
22	1332	509	636
23	1809	510	637
24	988	2868	3585
25	1778	808	1010
26	1663	773	966
27	1865	892	1115
28	1473	482	602
29	1073	884	1105
30	875	2791	3489
31	1575	487	609
32	1290	953	1191
33	684	474	593
40	968	1019	1274
41	68	94	117
45	4676	107	134
Sub-Total	48,953	28,014	35,017
	CODE 6706		
5	175		
33	840	164	205
34	1257	688	860
35	1717	812	1015
36	1169	528	660
37	1475	530	662
38	1025	777	971
39	1618	507	634
40	1234	489	611
41	1714	619	774
42	2442	810	1013
43	1530	400	500
44	918	378	473
45	223	61	76
Sub-Total	17,337	6,763	8,454
Total	66,290	34,777	43,471

SPECIAL CONSTRUCTION DETAILS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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LOR-82-(4.79-12.47)

GENERAL NOTES

DESIGN SPEED: 60 Miles per Hour.

FIELD OFFICE: The Contractor shall provide a suitable "Field Office" in accordance with Section S-0.01(s) having a minimum floor area of 500 Sq. Ft. The Contractor shall have a Telephone installed and maintained during the Construction of this Project.

CALCULATIONS: All Calculations are on file in the Division Office.

UTILITIES: Any and all work required for the adjustment of Public or Private Utilities shall be done by and at the expense of their respective owners unless otherwise shown on these Plans.

SANITARY: No drains, either existing or proposed, carrying domestic waste shall be connected to any portion of the proposed drainage system on this project.

E-101 SUBGRADE COMPACTION: Subgrade under drives, approaches or mailbox turnouts shall be compacted for a depth of six (6) inches to the density requirements of table III, Section E-101.09 unless otherwise called for. Payment for subgrade compaction, as specified above shall be included in the unit price bid for Item E-101 Roadway Excavation.

SUPERELEVATION: Superelevated pavement shall be built without crown. The crown shall be worked out in that portion between the beginning of the transition and the point where the superelevation equals twice the crown.

CROWN AT RAILROAD CROSSINGS: The crown shall be worked out of the pavement beginning 50 feet each side of the Railroad Crossing by raising the edge of the pavement to meet the rail elevation.

E-8 PAVEMENT REMOVAL QUANTITIES: Consist of Rigid type pavement only. Non Rigid type pavement removal is paid for as E-101 Roadway Excavation. Existing pavement types are as shown on Sheet No 2. Rigid pavement to be removed is indicated on the plan sheets by shading.

BASE REPLACEMENT: Two types of base replacement, Type (1) non rigid and Type (2) rigid are provided for in this plan. Details of each Type are shown on Sheet No 4. When "Base Replacement" is called for on the Plan and Profile Sheets it shall be Type (1) and the Cubic Yardage of its components is incorporated in the Calculations. Existing Defective Base Replacement over salvage areas shall be Type (2). Estimated quantities of such are provided in the following note.

REMOVAL AND DISPOSAL OF DEFECTIVE PAVEMENT: This item shall include removal and disposal of existing defective pavement areas, where the existing pavement is to be salvaged. This work shall be performed at the direction of the Engineer, over areas designated by him. The existing pavement, where removed, shall be replaced full depth with B-70 Portland Cement Concrete Base Course, as shown on Sheet No 4.

The following estimated quantities are provided to replace approximately 2100 Sq. Yds. of defective pavement.

E-101 Roadway Excavation (Carried to Sheet 4)	584	Cu. Yds.
E-8 Removal and Disposal of Existing Pavement	2100	Sq. Yds.
B-70 Portland Cement Concrete Base Course, As per Plan	584	Cu. Yds.
T-30 Bituminous Tack Coat	210	Gal.

B-70 PORTLAND CEMENT CONCRETE BASE COURSE: B-70 Base shall be constructed using High Early Strength Cement. Hand finishing will be permitted as per Section B-70.211.

I-9 STONE UNDERDRAINS No 2: A quantity of Stone Underdains No 2 to be used as directed by the Engineer, has been estimated at at approximately 100 foot intervals Left and Right. The Contractor shall grade, finish, seed and mulch the slopes so as to not impede the free drainage of the underdrains. The quantity shall be used in its entirety.

MATERIALS REMOVED under Items E-12, S-22 and S-24, shall become the property of the Contractor. Under Item E-12, the Contractor may, in lieu of Pipe Removal, uncover the pipe break it, and compact backfill in accordance with Section E-101.08 of the Supplemental Specifications.

E-3 CHANNEL EXCAVATION At Structures, Stations 299+90, 339+40, 544+60 and 611+53 was calculated across the roadbed before excavation for structures (E-2) was calculated.

I-15 GUARD RAIL REMOVED AND STORED: This Item shall include careful removal and storage only of the steel rail and hardware. A torch shall not be used for hardware removal. The posts shall become the property of the Contractor and shall be disposed of by him.

ELECTRIC TRAFFIC COUNTER, at Station 426+37± and ELECTRIC TRAFFIC BLINKER at Station 387+62 ± left will be removed and reset by State Forces. The Contractor shall notify the Engineer 10 Days prior to doing any work at these locations.

PROFILE: In areas where Profile Grades are not given, the Profile of the Proposed Surface Course shall be approximately 2¾" inches above that of the existing pavement.

ESTIMATED QUANTITIES: It shall be the responsibility of the Engineer to provide a written accounting as to location of all quantities used from the Estimated Quantities provided by General Note. This accounting shall be made a part of the final "Change Order" concerning this project.

ESTIMATED PIPE QUANTITIES: The following are included in the General Summary to be used where and as directed by the Engineer if needed.

I-3 6" Roadway Drainage	400	Lin. Ft.
I-3 8" Roadway Drainage	300	Lin. Ft.
I-3 10" Roadway Drainage	300	Lin. Ft.
I-2 6" Class "A" Storm Sewers Under Pavement or Approaches	200	Lin. Ft.

E-101 EXCAVATION: Section E-101.03(c) of the Construction and Materials Specifications shall include the filling of old basements. The entire Section E-101.03(c) shall apply whether the item is wholly or partly within the Right of Way.

I-13 SIDEWALKS: Proposed Sidewalks shall be the same width as the existing. The main 6 foot wide Sidewalk, Station 649+15 to 653+55 left, shall have a centerline location 32 feet left of centerline survey, and a centerline profile approximately 0.11 foot below pavement profile. Aggregate Sidewalks shall be crushed limestone, Section M-3.1, or slag, Section M-3.6, meeting the requirements of Section I-18.02 of the Construction and Materials Specifications.

MAINTAINING LOCAL TRAFFIC: The following estimated quantities are included in the general summary for maintaining local traffic as directed by the Engineer. T-10 Traffic Compacted Surface Course for Maintaining Traffic 578 Cu. Yds. M-10 Calcium Chloride furnished and applied for Maintaining Traffic. 11.6 Tons

I-4 PIPE UNDERDRAINS: The following estimated quantities of six (6) inch Pipe Underdrains have been provided in the General Summary to be used as directed by the Engineer, if needed.

6" I-4 Underdrains	400	Lin. Ft.
6" I-4 Pipe Outlets for Underdrains	40	Lin. Ft.

STANDARD No 1 SIDE DITCH INLETS: The top elevations of Std. No 1 Inlets shall be determined by the Engineer. The elevation at which water flows into the basins shall be 2 to 4 inches below the normal ditch returning to normal 10 feet each side of the basin.

ROADSIDE PARK: It is the intent of the State of Ohio to develop a Roadside Park from Station 329+20.8 left to Station 332+20.5 left. This development will require approximately 2600 Cu. Yds. of embankment. The Contractor shall waste approximately this amount of earth in this area under the direction of the Engineer. Cross Sections of the proposed park will be available at the Division Office. There will be no compaction requirements governing this waste. Any additional costs to the Contractor resulting from the wasting of dirt in this area shall be included in the unit price bid for E-101 Roadway Excavation.

REMOVAL OF TREES AND STUMPS, shall be paid for by a lump sum bid. The number of trees and stumps shown in the following table is for estimating purposes only. Sizes under 12" are not listed. The State does not guarantee the accuracy of the table.

SIZE	12" - 18"	18" - 24"	24" - 30"	30" - 36"	36" - 42"	42" - 48"	OVER 48"
TREES	83	61	68	28	9	11	1
STUMPS	38	19	14	4	4	–	–

SEEDING: 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.

Areas to be seeded or sodded shall be fertilized using a commercial fertilizer having a formula of 12-12-12 applied at the rate of 20 pounds per 1000 Sq. Ft. and seeded with the following mixture; 75% Creeping Red Fescue, 20% Kentucky Bluegrass and 5% White Dutch Clover.

SEEDING LIMITS are indicated on the cross sections by the symbol ⊢S.

SERVICE STATIONS: An estimated 20 Cu. Yds. of T-35 Asphaltic Concrete Surface Course is provided in the General Summary to be used for feathering, as directed by the Engineer, where existing service station approaches are not being completely rebuilt.

MAINTENANCE OF TRAFFIC: Two way traffic shall be maintained at all times, except one way traffic will be permitted during the placing or removal of any cross pavement drainage in areas other than those provided with Temporary Run-Around Roads and during the placing of B-35 and T-35. The length of one way Traffic Zones shall be kept to a minimum consistant with the specification requirements for Protection of Wearing Course.

At the three major structures on this project located approximately at Sta. 366+50, Sta. 426+00 and Sta. 601+50, traffic shall be maintained on Temporary Run-Around Roads that are provided and paid for under the Structure Plans, Sheets No 122-130.

In the areas of new pavement construction Sta. 253+02.02 to Sta. 254+50, Sta. 483+00 to Sta. 493+75 and Sta. 648+75 to Sta. 658+25, traffic shall be maintained on Temporary Run-Around Roads as shown on the Plan. The lump sum pay item for these Temporary Run-Around Roads shall be "Item S-15 Temporary Run-Around Roads, Using Class "A" Pavement, As Per Plan" and shall meet the specifications requirements for Item S-15 Temporary Run-Around Bridges and Approaches. The profile grade of the Temporary Run-Around Roads shall be approximately the same as the existing road except where otherwise shown. Pavement shall be class "A" and shall be 20 feet in width.

Any other costs involved in connection with traffic, such as erecting and maintaining lights, signs and barricades, or other items not specifically covered shall be included in the Lump Sum bid for "Maintaining Traffic".

In areas of widening between Sta. 253+02.02 and Sta. 522+43.03 widening operations shall be permitted on one side at a time only. The length of open trench shall be held to a minimum during the placing of the first side.

I-8 CONCRETE REFERENCE MONUMENTS: Proposed reference monuments shall not be set until after seeding is completed.

PORTLAND CEMENT: If High-Early-Strength Portland Cement, Sec. M-1.2 or Sec. M-1.4, cannot be obtained for use in Portland Cement Concrete items as required for this project, the following substitution may be made at no additional cost to the State: Portland Cement, Sec. M-1.1, M-1.3, or M-1.8 may be used, and if used, the quantity of cement used shall be 15% greater than the quantity of cement required by the standard specifications. In addition, Calcium Chloride shall be added in an amount equal to 2 percent by weight of the total quantity of cement used. The Calcium Chloride shall be added in solution form.

CHANNEL EXCAVATION: Where channel excavation is carried through a proposed pipe structure site, additional excavation required to obtain a stable foundation for the structure shall be measured and paid for as Item E-3, Channel Excavation.

CALCULATIONS

ITEM SPECIAL, MIXING CALCIUM CHLORIDE AND CRUSHED AGGREGATE

From volume of I-18 on berms = 4,212 Cu. Yds.

4212 x 36 ÷ 6 = 25,272 Sq. Yds.

ITEM M-10, CALCIUM CHLORIDE

From area of Item Special above = 25,272 Sq. Yds.

25,272 x 2.1 ÷ 2,000 = 26.5 Tons.

SUB - SUMMARY

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From Sheet No	E-101 Roadway Excavation As Per Plan C.Y.	E-101 Compacted Subgrade S.Y.	E-2 Excavation for Structures C.Y.	E-3 Channel Excavation C.Y.	E-8 Removal & Disposal of Existing Pavement S.Y.	E-8 Removal & Disposal of Existing Sidewalk S.F.	E-8 Removal & Disposal of Existing Curb L.F.	E-9 Removal of Trees and Stumps Lump	E-11 Water M.Gal.	E-12 Pipe Removed 15" and Under Lin. Ft.	E-12 Pipe Removed Over 15" Lin. Ft.	B-35 Asphaltic Concrete Leveling Course Cu.Yds.	B-35 Asphaltic Concrete Base Course Cu.Yds.	B-35 Sealing Vertical Face of Existing Pavement L.F.	B-70 Portland Cement Concrete Base C.Y.	B-119 Crushed Aggregate Base Course C.Y.	T-10 Traffic Compacted Surface Course C.Y.	T-30 Bituminous Prime Coat Gal.	T-30 Bituminous Tack Coat Gal.	T-35 Asphaltic Concrete Surface Course C.Y.	S-1 Concrete for Structures Class "E" C.Y.	S-4 Reinforcing Steel Lbs.	S-15 Temporary Run around Lump	S-22 Removal of Portions of Existing Structures C.Y.	S-23 Dowel Holes L.F.	S-24 Removal of Existing Structures Lump
CODE	G201																			CODE	G201					
Calc.		6223							275			3720.0	2670.0			7402.0		2902		3067.0						
4	48953															461.0				170.0						
5					1470			Lump							409		405		147	14.0			Lump			
9			1.3							402	86					40.2				9.2	0.74					
10										976		7.6				156.9				56.1						
11										158	68					74.5				23.8						
12																57.7				13.1						
13			80	740						36	18					48.7				15.8	10.1	159				2
14						16				126						61.0				18.1						
15										113						76.8				30.3						
16			16	10						38						33.6				13.2	0.6					1
17										270						202.8				63.8						
18										38						84.6				27.2						
19			27													51.5				8.9	0.6					1
20										24						51.0				9.9						
21			11			40	124			690						149.5				45.2	0.5					
22										820						78.0				26.9						
23			27													98.8				33.9						1
24											60					170.4				44.5						
25			58	110						143	57					64.2				20.6	1.6					1
26			43							88						84.3				23.8	0.23			1.7		1
27			125	55						80						69.3				17.2	3.5			1.4		
28			16							64						41.8				16.6	0.26					
29										112						73.1				17.6						
30																151.6				44.8						
31										14						184.4				65.3						
32																96.7				37.7						
33																69.9				16.6						
40					474																					
41																14.7				2.5	10.4	977		0.2	63	
45					1594	2188	159									135.3				42.3						
101		417										33.8	42.0			129.0		149		33.6						
102												68.4	46.4			141.5		134		71.5						
103												36.8	33.0			102.2		177		31.5						
121			17	36																2.5	10.4	977		0.2	63	
TOTAL	48953	6640	421.3	951	3538	2544	283	Lump	275	4192	239	3856.6	2790.1		409	14650.1	405	3362	147	4132.5	28.53	1136	Lump	3.3	63	7

From Sheet No	S-27 Pipe For Roadway Culverts: Standard 12"	Standard 18"	Paved Bituminous Coated Corrugated Metal Pipe Sec.M-6.4(d) 12"	Paved Bituminous Coated Corrugated Metal Pipe Sec.M-6.4(d) 15"	Paved Bituminous Coated Corrugated Metal Pipe Sec.M-6.4(d) 18"	Paved Bitumin. Coated Corrug. Metal Arches Sec.M-6.4(1)(d) 36"x22"	Paved Bitumin. Coated Corrug. Metal Arches Sec.M-6.4(1)(d) 43"x27"	Paved Bitumin. Coated Corrug. Metal Arches Sec.M-6.4(1)(d) 50"x31"	Paved Bitumin. Coated Corrug. Metal Arches Sec.M-6.4(1)(d) 65"x40"	Standard Strength Reinforced Concrete Culvert Pipe Sec. M-6.6(b) 18"	Standard Strength Reinforced Concrete Culvert Pipe Sec. M-6.6(b) 21"	Standard Strength Reinforced Concrete Culvert Pipe Sec. M-6.6(b) 42"	Standard Strength Reinforced Concrete Culvert Pipe Sec. M-6.6(b) 48"	Reinf. Elliptical Conc.M-206.6(b) 23"x14"	Reinf. Elliptical Conc.M-206.6(b) 53"x34"	I-1 Pipe for Driveways 8"	12"	15"	18"	I-2 Class "A" Storm Sewer: Standard 12"	15"	18"	21"	Under Pavement or Approaches 6"	12"	15"	18"	21"	From Sheet No
	Linear Feet									Linear Feet (or M-6.8(b))						Lin. Ft.				Linear Feet									
CODE	G201																											CODE	G201
Calc.																													Calc.
4																													4
5																									140				5
9	14																	30		22			376			78		80	9
10																		92			414	618					48		10
11																	58	58		12		186					40		11
12																	30	56											12
13			130							164								28	72										13
14																		28	116										14
15																		142											15
16				60														30	28										16
17																		310	166										17
18																	56	60											18
19			84																58										19
20																		60											20
21				56														72		18					56				21
22																	50												22
23																		136											23
24																		196	40										24
25						G2												44											25
26			14							86								62											26
27						G2	72											126											27
28				70														34											28
29																		138											29
30																		170											30
31																		88											31
32																		28											32
33																		32											33
40																													40
41																		30											41
45																				231	431				528				45
101																													101
102																													102
103																													103
121																													121
TOTAL	14		214		14	126	60			124	72			66	86		164	136	1900	494	194	283	431	600	994	196	528	78	88	80	TOTAL

From Sheet No	E-101 Roadway Excavation As Per Plan C.Y.	E-101 Compacted Subgrade S.Y.	E-2 Excavation for Structures C.Y.	E-3 Channel Excavation C.Y.	E-8 Removal & Disposal of Existing Pavement S.Y.	E-8 Removal & Disposal of Existing Sidewalk S.F.	E-8 Removal & Disposal of Existing Curb L.F.	E-9 Removal of Trees and Stumps Lump	E-11 Water M.Gal.	E-12 Pipe Removed 15" and Under Lin. Ft.	E-12 Pipe Removed Over 15" Lin. Ft.	B-35 Asphaltic Concrete Leveling Course Cu.Yds.	B-35 Asphaltic Concrete Base Course Cu.Yds.	B-35 Sealing Vertical Face of Existing Pavement L.F.	B-70 Portland Cement Concrete Base C.Y.	B-119 Crushed Aggregate Base Course C.Y.	T-10 Traffic Compacted Surface Course C.Y.	T-30 Bituminous Prime Coat Gal.	T-30 Bituminous Tack Coat Gal.	T-35 Asphaltic Concrete Surface Course C.Y.	S-1 Concrete for Structures Class "E" C.Y.	S-4 Reinforcing Steel Lbs.	S-15 Temporary Run around Lump	S-22 Removal of Portions of Existing Structures C.Y.	S-23 Dowel Holes L.F.	S-24 Removal of Existing Structures Lump
CODE	G706																			CODE	G706					
Calc.									72			1857.0	661.0	302		1785.0		224	20	1371.0						
4	17337							Lump								197.0				73.0						
5					630										175		173		63	6.0						
33																34.4				13.6						
34										36						49.5				4.2						
35			12	210	56					168						37.5				8.9	5.4	136				1
36			34	10	52					66						47.3				16.8	1.3					1
37										20						49.6				4.2						
38										250	978	8.4				179.2				58.1						
39			172		20					186						137.1				38.0	0.56			3.3		1
40										140						68.7				19.5						
41			30	155	80											124.1				38.0	8.1	175				1
42			20		16					52						59.0				12.5	0.8					
43						32				28						76.6				20.8						
44						92				110	24					170.8				51.7						
45												1.3	0.2			28.5				7.8						
101																										
102																										
103												32.5	13.7			41.2				38.1						
TOTAL	17337		268	375	854	124		Lump	72	1056	1002	1899.2	674.9	302	175	3085.5	173	224	83	1783.2	16.16	311		3.3		4

From Sheet No	S-27 Pipe For Roadway Culverts: Standard 12"	Standard 18"	Paved Bituminous Coated Corrugated Metal Pipe Sec.M-6.4(d) 12"	Paved Bituminous Coated Corrugated Metal Pipe Sec.M-6.4(d) 15"	Paved Bituminous Coated Corrugated Metal Pipe Sec.M-6.4(d) 18"	Paved Bitumin. Coated Corrug. Metal Arches Sec.M-6.4(1)(d) 36"x22"	Paved Bitumin. Coated Corrug. Metal Arches Sec.M-6.4(1)(d) 43"x27"	Paved Bitumin. Coated Corrug. Metal Arches Sec.M-6.4(1)(d) 50"x31"	Paved Bitumin. Coated Corrug. Metal Arches Sec.M-6.4(1)(d) 65"x40"	Standard Strength Reinforced Concrete Culvert Pipe Sec. M-6.6(b) 18"	Standard Strength Reinforced Concrete Culvert Pipe Sec. M-6.6(b) 21"	Standard Strength Reinforced Concrete Culvert Pipe Sec. M-6.6(b) 42"	Standard Strength Reinforced Concrete Culvert Pipe Sec. M-6.6(b) 48"	Reinf. Elliptical Conc.M-206.6(b) 23"x14"	Reinf. Elliptical Conc.M-206.6(b) 53"x34"	I-1 Pipe for Driveways 8"	12"	15"	18"	I-2 Class "A" Storm Sewer: Standard 12"	15"	18"	21"	Under Pavement or Approaches 6"	12"	15"	18"	21"	From Sheet No
	Linear Feet									Linear Feet						Lin. Ft.				Linear Feet									
CODE	G706																											CODE	G706
Calc.																													Calc.
4																													4
5																									60				5
33																		62											33
34																		96											34
35																	120	28											35
36																		42	70										36
37																		132											37
38																												40	38
39																		84							404				39
40																		100							64				40
41																													41
42																	60												42
43																		68											43
44																		180		530									44
45																				247	25				100				45
101																													101
102																													102
103																													103
TOTAL	14		214		14	126	60			124	72			66	86		164	136	1900	777	25	283	431	600	994	196	528	78	88	80	TOTAL

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	I-3																					I-4			I-5									I-7	I-8									I-9		I-13				I-15					I-16		I-18	I-22	L-9		L-10		M-10			
	Roadway Drainage																								Pipe Specials										Catch Basins											Sidewalks				Guard Rail																
From Sheet No	Standard										Under Pavement						Shallow Cover			Outlet Pipe		Underdrains	Pipe Outlets For Underdrains		8"-45° For I-3	10"x10" "T" For I-3	12"x12" "T" For I-2"A" U.P.	12"x12" "T" For I-3	15"x12" "T" For I-2"A"	18"x12" "T" For I-2"A"	24"x10" "T" For I-3	21"x12" "T" For I-2"A"		Approach Slabs	#2-2A	#2-2B	#2-3	#2-4		No1 Inlet	No1 Manhole	Monument Box Adjusted to Grade	Concrete Reference Monuments	Stone Underdrains		4" Aggregate	4" Concrete	6" Concrete	Concrete Steps	Steel Beam Type Deep	Removed & Rebuilt	Removed & Stored	Removed & Disposed of	Wood Guard Rail Posts Without Rail	Manholes Abandoned	Catch Basins Abandoned	Stabilized Crushed Aggregate Shoulders	Subbase	Seeding	Commercial Fertilizer	Sodding		Calcium Chloride or Calc. Magnesium Chl.		Base Replacement	From Sheet No
	6"	8"	10"	12"	15"	18"	21"	24"			10"	12"	15"	18"			10"	12"		18"		6"												T=13"																																
	Linear Feet										Linear Feet											Lin. Ft.			Units									S.Y.	Units									L.F.		Sq. Ft.			L.F.	Lin. Ft.				Units	Units.		C.Y.		S.Y.	Tons	S.Y.		Tons		S.Y.	
CODE 6201																																																															CODE 6201			
Calc.																																												7755													2898	5888.0	200,480	18.04						Calc.
4																																																																		4
5	280	210	210																			280	28																																								8.1			5
9		26		44																					1				1			1			2		1			3	1													17		5									55.0	9
10						114																														2				4	2																									10
11																														1										1																										11
12				132								20																																												1										12
13				140																								1												1																									121.8	13
14																																															16																				14
15																																																																		15
16																																																		75															16.7	16
17																																																																		17
18					94								20																																																					18
19				206								40																						133.4																77.68								23.2							15.9	19
20				150								40																																																						20
21				660								230																3								1				6							40									4									24.4	21
22				398								150																1												3																2										22
23				276								90																							2					1																									13.0	23
24				116		202						38								10														133.4		1				1										91.52								23.2			67					24
25						146																													1					2																									33.0	25
26			158								164																									1				3		1												40											17.2	26
27			64								40																																																						45.6	27
28			196	100							52																													2																										28
29				100								20																																								75														29
30				26								190																								1				2														40		1										30
31				690								334																								2				7														16		2										31
32			106	856								40																								1				4										75.00																32
33			126	56							40	20																																																							33
40						25																												133.4																128.88			92					23.2								40
45																																				4				6		1				120	21.12	360	68				14		1	2										45
101																																																										102.2								101
102																																																										112.8								102
103																																																										97.4								103
121																																																																		121
147																																											72																							
TOTAL	280	236	860	3950	94	487					296	1212	20							10		280	28		1			5	1	1		1		400.2	5	13	1			46	3	2	72	7755		120	2168	360	68	448.08		75	106	113	1	17	2898	6270	200,480	18.04	67		8.1		342.6	TOTAL
CODE 6706																																																															CODE 6706			
Calc.																																												3472													1314	1520.0	85,920	7.73						Calc.
4																																																																		4
5	120	90	90																			120	12																																								3.5			5
33																																																																		33
34				70								20																																																						34
35			126		168						20		20																											1																									62.2	35
36					100								30																																																				57.8	36
37																																																																		37
38	30			872			912					40																4							1	1	1			11	1															1										38
39			58	108				108																			1									2		2		3														49							3				58.0	39
40						91								24																																																				40
41			348					298			122															1					1									7																									89.0	41
42			96					102			84						54																							2																2									17.7	42
43				148								60						210																						3							24																			43
44																																				2				2																										44
45																																				1				1							360				80		2					0.9			34					45
101																																																																		101
102																																																																		102
103																																																										16.1								103
147																																											38																							
TOTAL	150	90	718	1198	268	91	912	508			226	120	50	24			54	210				120	12			1	1	4			1				1	6	1	2		30	1		38	3472			384				80		2	49		3	1314	1537	85,920	7.73	37		3.5		284.7	TOTAL

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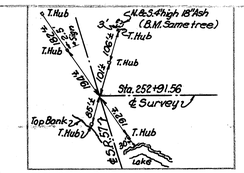
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SUB-TOTALS Code 6201	SUB-TOTALS Code 6706	ITEM	GRAND TOTAL	UNITS	DESCRIPTION
					ROADWAY
48,953	17,337	E-101	66,290	Cu.Yds.	Roadway Excavation, As per Plan
6640		E-101	6640	Sq.Yds.	Subgrade Compaction
3538	854	E-8	4392	Sq.Yds.	Removal and Disposal of Existing Pavement
283		E-8	283	Lin.Ft.	Removal and Disposal of Existing Curb
2544	124	E-8	2668	Sq.Ft.	Removal and Disposal of Existing Sidewalk
Lump	Lump	E-9	Lump	Lump	Removal of Trees and Stumps
275	72	E-11	347	M.Gal.	Water
Lump	Lump	S-15	Lump	Lump	Temporary Run-Around Roads using Class "A" Pavement, As per Plan
72	38	I-8	110	Units	Concrete Reference Monuments, As per Plan
68		I-13	68	Lin.Ft.	Concrete Steps
120		I-13	120	Sq.Ft.	4" Aggregate Sidewalk, As per Plan
2168	384	I-13	2552	Sq.Ft.	4" Concrete Sidewalk
360		I-13	360	Sq.Ft.	6" Concrete Sidewalk
448.08		I-15	448.08	Lin.Ft.	Guard Rail, Steel Beam Std. Type (Deep), As per Standard Drawing I-15 No 2A
	80	I-15	80	Lin.Ft.	Guard Rail Removed and Rebuilt
75		I-15	75	Lin.Ft.	Guard Rail Removed and Stored, As per Plan
106	2	I-15	108	Lin.Ft.	Guard Rail Removed and Disposed of
113	49	I-15	162	Units	Wood Guard Rail Posts Without Rail
2898	1314	I-18	4212	Cu.Yds.	Stabilized Crushed Aggregate Shoulders and Approaches
200,480	85,920	L-9	286,400	Sq.Yds.	Seeding and Protecting, As per Plan
18.04	7.73	L-9	25.77	Tons	Commercial Fertilizer (12-12-12)
67	37	L-10	104	Sq.Yds.	Sodding
405	173	T-10	578	Cu.Yds.	Traffic Compacted Surface Course for Maintaining Traffic
26.4	11.7	M-10	38.1	Tons	Calcium Chloride furnished and applied.
17,388	7884	Special	25,272	Sq.Yds.	Mixing Calcium Chloride and Crushed Aggregate,
					DRAINAGE
422	268	E-2	690	Cu.Yds.	Excavation for Structures
951	375	E-3	1326	Cu.Yds.	Channel Excavation
4192	1056	E-12	5248	Lin.Ft.	Pipe Removed, 15" and Under
239	1002	E-12	1241	Lin.Ft.	Pipe Removed, Over 15"
28.6	16.2	S-1	44.8	Cu.Yds.	Concrete for Structures, Class "E"
1136	311	S-4	1447	Pounds.	Reinforcing Steel
3.3	3.3	S-22	6.6	Cu.Yds.	Removal of Portions of Existing Structures
63		S-23	63	Lin.Ft.	Dowel Holes
Lump (7)	Lump (4)	S-24	Lump	Lump	Removal of Existing Structures
14		S-27	14	Lin.Ft.	12" Pipe for Roadway Culverts
214		S-27	214	Lin.Ft.	18" Pipe for Roadway Culverts
66		S-27	66	Lin.Ft.	18" Pipe for Roadway Culverts, Sec. M-6.6 (b) or M-6.8 (b)
86		S-27	86	Lin.Ft.	21" Pipe for Roadway Culverts, Sec. M-6.6 (b) or M-6.8 (b)
	76	S-27	76	Lin.Ft.	42" Pipe for Roadway Culverts, Sec. M-6.6 (b)
164		S-27	164	Lin.Ft.	48" Pipe for Roadway Culverts, Sec. M-6.6 (b)
14		S-27	14	Lin.Ft.	12" Paved Bituminous Coated Corrugated Metal Pipe Sec. M-6.4(d) for Roadway Culverts
126	68	S-27	194	Lin.Ft.	15" Paved Bituminous Coated Corrugated Metal Pipe Sec. M-6.4 (d) for Roadway Culverts
60	68	S-27	128	Lin.Ft.	18" Paved Bituminous Coated Corrugated Metal Pipe Sec. M-6.4 (d) for Roadway Culverts, 14 Gage
	58	S-27	58	Lin.Ft.	36"x22" Paved Bituminous Coated Corrugated Metal Arch with Integral Base Sec. M-6.4(d)(1) for Roadway Culverts
124		S-27	124	Lin.Ft.	43"x27" Paved Bituminous Coated Corrugated Metal Arch with Integral Base Sec. M-6.4(d)(1) for Roadway Culverts
72		S-27	72	Lin.Ft.	50"x31" Paved Bituminous Coated Corrugated Metal Arch with Integral Base Sec. M-6.4(d)(1) for Roadway Culverts
	152	S-27	152	Lin.Ft.	65"x40" Paved Bituminous Coated Corrugated Metal Arch with Integral Base Sec. M-6.4 (d)(1) for Roadway Culverts
	60	S-27	60	Lin.Ft.	23"x14" Reinforced Elliptical Concrete Culvert Pipe Sec. M-206.6 (b) for Roadway Culverts
	120	S-27	120	Lin.Ft.	53"x34" Reinforced Elliptical Concrete Culvert Pipe Sec. M-206.6 (b) for Roadway Culverts
136	42	I-1	178	Lin.Ft.	8" Pipe for Driveways Sec. M-6.4(a).
1900	820	I-1	2720	Lin.Ft.	12" Pipe for Driveways Sec. M-6.4(a).
494		I-1	494	Lin.Ft.	15" Pipe for Driveways Sec. M-6.4(a).
194		I-1	194	Lin.Ft.	18" Pipe for Driveways Sec. M-6.4(a).

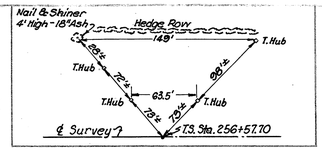
SUB-TOTALS Code 6201	SUB-TOTALS Code 6706	ITEM	GRAND TOTAL	UNITS	DESCRIPTION
					DRAINAGE (Continued)
283	777	I-2	1060	Lin.Ft.	12" Class "A" Storm Sewers
431	25	I-2	456	Lin.Ft.	15" Class "A" Storm Sewers
600		I-2	600	Lin.Ft.	18" Class "A" Storm Sewers
994		I-2	994	Lin.Ft.	21" Class "A" Storm Sewers
196	60	I-2	256	Lin.Ft.	6" Class "A" Storm Sewers Under Pavement or Approaches
528	568	I-2	1096	Lin.Ft.	12" Class "A" Storm Sewers Under Pavement or Approaches
78		I-2	78	Lin.Ft.	15" Class "A" Storm Sewers Under Pavement or Approaches
88		I-2	88	Lin.Ft.	18" Class "A" Storm Sewers Under Pavement or Approaches
80	40	I-2	120	Lin.Ft.	21" Class "A" Storm Sewers Under Pavement or Approaches
280	150	I-3	430	Lin.Ft.	6" Roadway Drainage
236	90	I-3	326	Lin.Ft.	8" Roadway Drainage
860	718	I-3	1578	Lin.Ft.	10" Roadway Drainage
3950	1198	I-3	5148	Lin.Ft.	12" Roadway Drainage
94	268	I-3	362	Lin.Ft.	15" Roadway Drainage
487	91	I-3	578	Lin.Ft.	18" Roadway Drainage
	912	I-3	912	Lin.Ft.	21" Roadway Drainage
	508	I-3	508	Lin.Ft.	24" Roadway Drainage
296	226	I-3	522	Lin.Ft.	10" Roadway Drainage Under Pavement or Approaches
1212	120	I-3	1332	Lin.Ft.	12" Roadway Drainage Under Pavement or Approaches
20	50	I-3	70	Lin.Ft.	15" Roadway Drainage Under Pavement or Approaches
	24	I-3	24	Lin.Ft.	18" Roadway Drainage Under Pavement or Approaches
	54	I-3	54	Lin.Ft.	10" Roadway Drainage with Shallow Cover
	210	I-3	210	Lin.Ft.	12" Roadway Drainage with Shallow Cover
10		I-3	10	Lin.Ft.	18" Outlets for Roadway Drainage, Sec. M-6.4(c)
280	120	I-4	400	Lin.Ft.	6" Underdrains
28	12	I-4	40	Lin.Ft.	6" Pipe Outlets for Underdrains, Sec. M-6.4(h) without perforations
1		I-5	1	Units	8" Pipe Specials for Roadway Drainage
	1	I-5	1	Units	10" Pipe Specials for Roadway Drainage
5	4	I-5	9	Units	12" Pipe Specials for Roadway Drainage
	1	I-5	1	Units	12" Pipe Specials for Class "A" Storm Sewer Under Pavement
1		I-5	1	Units	15" Pipe Specials for Class "A" Storm Sewer
1		I-5	1	Units	18" Pipe Specials for Class "A" Storm Sewer
1		I-5	1	Units	21" Pipe Specials for Class "A" Storm Sewer
	1	I-5	1	Units	24" Pipe Specials for Roadway Drainage
5	1	I-8	6	Units	Standard No 2-2-A Catch Basins
13	6	I-8	19	Units	Standard No 2-2-B Catch Basins
1	1	I-8	2	Units	Standard No 2-3 Catch Basins
	2	I-8	2	Units	Standard No 2-4 Catch Basins
46	30	I-8	76	Units	Standard No 1 Side Ditch Inlets
3	1	I-8	4	Units	Standard No 1 Manhole
2		I-8	2	Units	Monument Boxes Adjusted to Grade
7755	3472	I-9	11,227	Lin.Ft.	Stone Underdrains No 2
17	3	I-16	20	Units	Catch Basins Abandoned
1		I-16	1	Units	Manholes Abandoned
					PAVEMENT
3857	1899	B-35	5756	Cu.Yds.	Asphaltic Concrete Leveling Course (70-85)
2791	675	B-35	3466	Cu.Yds.	Asphaltic Concrete Base Course (70-85)
	302	B-35	302	Lin.Ft.	Sealing Vertical Face of Existing Pavement
409	175	B-70	584	Cu.Yds.	Portland Cement Concrete Base Course as per plan
147	83	T-30	230	Gal.	Bituminous Tack Coat, Sec. M-5.5, MS-2 or RS-1 or Sec. M-5.2, RC-1 or RC-2 as per Sec. T-30.02
3362	224	T-30	3586	Gal.	Bituminous Prime Coat, Sec. M-5.2, RC-1 or RC-2, or Sec. M-5.3, MC-0 or MC-1
4133	1783	T-35	5916	Cu.Yds.	Asphaltic Concrete Surface Course, Type "A" (70-85)
400		I-7	400	Sq.Yds.	Reinforced Concrete Approach Slabs (T=13")
6270	1537	I-22	7807	Cu.Yds.	Subbase
10,657	3086	B-119	13,743	Cu.Yds.	Crushed Aggregate Base Course
					For Quantities of Structures 20 Foot Span or Over, See Sheets No. 123, 126 & 129

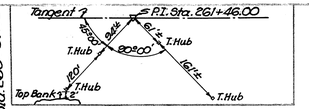
DIST. NO.	STATE	PROJECT		9
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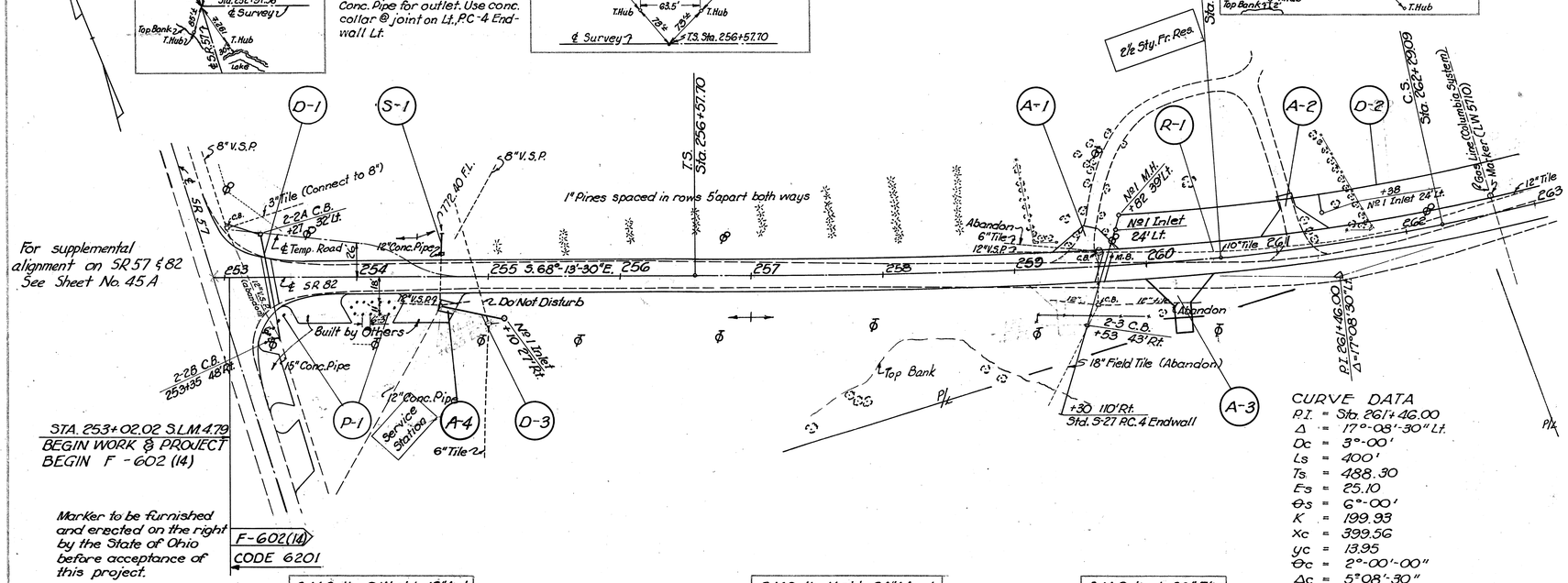
LOR-82-(4.79-12.47)



S-1 Str. Nº LOR-82-0482
D.A. = 1.5 Ac. Cover @ ℄ = 3.2'
Sta. 254+64 extend existing 12"Conc. Pipe 14' Lt. Construct Nº1 M.H. on Rt. using existing 12" Conc. Pipe for outlet. Use conc. collar @ joint on Lt. P.C-4 End-wall Lt.







CURVE DATA
P.I. = Sta. 261+46.00
Δ = 17°-08'-30" Lt.
Dc = 3°-00'
Ls = 400'
Ts = 488.30
Es = 25.10
θs = 6°-00'
K = 199.93
Xc = 399.56
yc = 13.95
θc = 2°-00'-00"
Δc = 5°08'-30"
Lc = 171.39

B.M. Spike S.W. side 18"Ash
159.5 Lt. Sta. 254+27.5
Elev. 778.239

B.M. Spike N. side 24"Maple
150'± Rt. Sta. 257+48
Elev. 774.064

B.M. Spike in 30"Elm
63' Rt. Sta. 260+06
Elev. 779.304

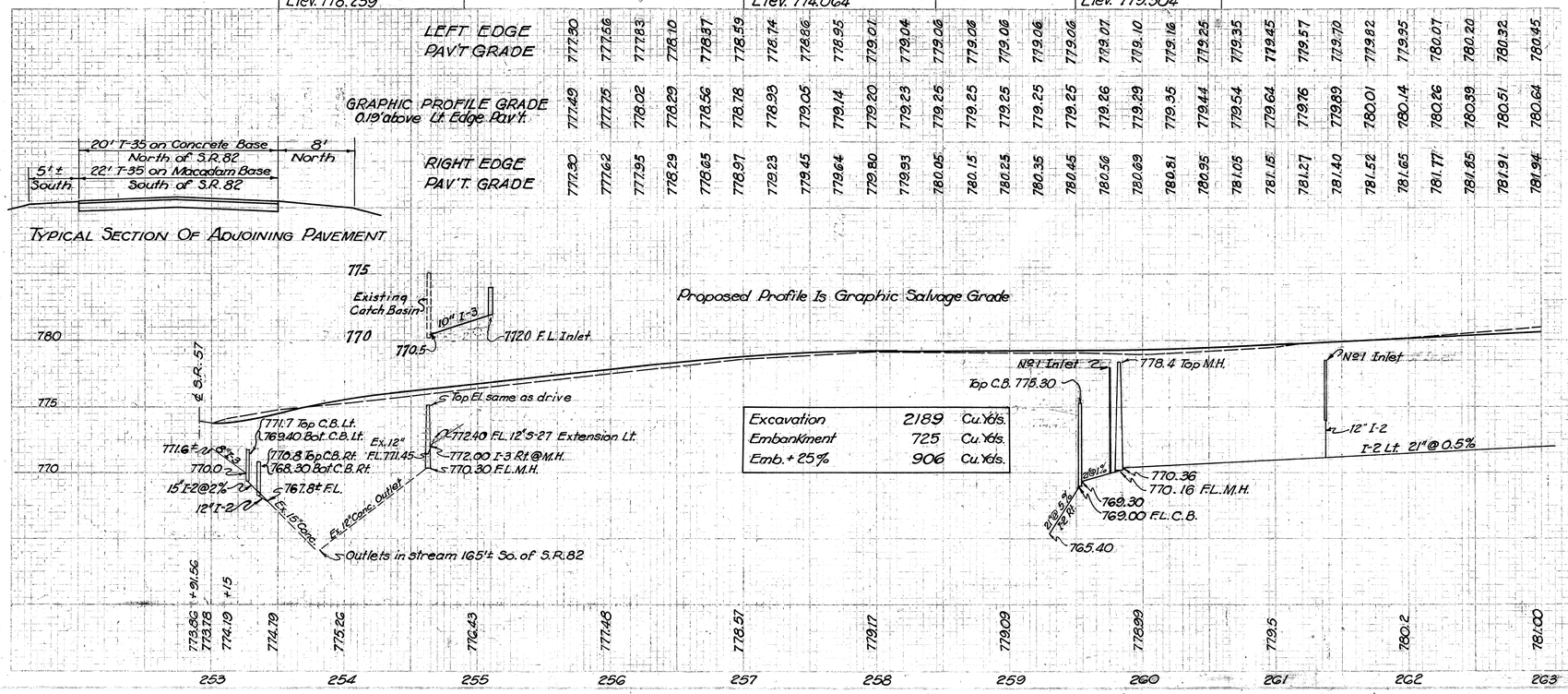
Ref. Nº	Station	T-35 Asph. Conc. Surf. Cr'se. Cu.Yds. 2"	B-1/9 Crushed Aggregate Base Course Cu.Yds. 5"	B-1/9 Crushed Aggregate Base Course Cu.Yds. 6"	I-1 Pipe for Drives Lin.Ft. 18"	E-12 Pipe Removal 15" & Under Lin.Ft.	E-12 Pipe Removal Over 15" Lin.Ft.	I-16 Catch Basin Aban. Units	S-1 Conc. for Struc. Cu.Yds.	S-27 Rdwy. Culv. Lin.Ft. 12"	E-2 Excav. for Struc. Cu.Yds.	I-15 Guard Rail Posts Only. Units
A-1	259+51 Lt. L=20'	4.0	10.0									
A-2	261+22 Lt. L=30'	4.7	12.0									
A-3	260+25 Rt. L=42'			16.7	30							
A-4	254+70 Rt Patch	0.5		1.5								
S-1	254+64								0.38	14	1.3	
P-1	253+31 - 254+29 Rt.											17
R-1	258+96 - 263+00					402	36	2				
								See	See			
	Totals	9.2	22.0	18.2	30	402	36	Below	Below	14	1.3	17

Ref. Nº	Station	I-2 Class "A" Storm Sewer Std. 12" Lin.Ft.	I-2 Class "A" Storm Sewer Under Pav't. 15" Lin.Ft.	I-3 Roadway Drainage Std. 21" Lin.Ft.	I-3 Roadway Drainage Under Pav't. 21" Lin.Ft.	I-3 Roadway Drainage 8" Lin.Ft.	I-3 Roadway Drainage 12" Lin.Ft.	I-8 Nº1 Inlet Units	I-8 Std. 2-2-A Catch Basin Units	I-8 Nº 2-3 Catch Basin Units	I-8 Nº1 Man Hole Units
D-1	253+00 Lt - 253+35 Rt	8	78			26			2		
D-2	259+30 Rt - 263+00 Lt	14		376	80			2		1	1
D-3	254+64 - 255+10 Rt						44	1			
	Totals	22	78	376	80	26	44	3	2	1	1

Ref. Nº	Station	I-16 Catch Basin Aban. Units	I-5 Pipe Special Units	S-1 Conc. for Struc. Cu.Yds.	Base Replacement Sq.Yds.
D-1	253+00 Lt - 253+35 Rt.	1	* 2		37.1
D-2	259+30 Rt - 263+00 Lt.	2	o 1	0.36	17.9
	From Above	2		0.38	
	Totals	5	3	0.74	55.0

* 8"-45° Bend & 15"x12" Tee
o 21"x12" T

TYPICAL SECTION OF ADJOINING PAVEMENT



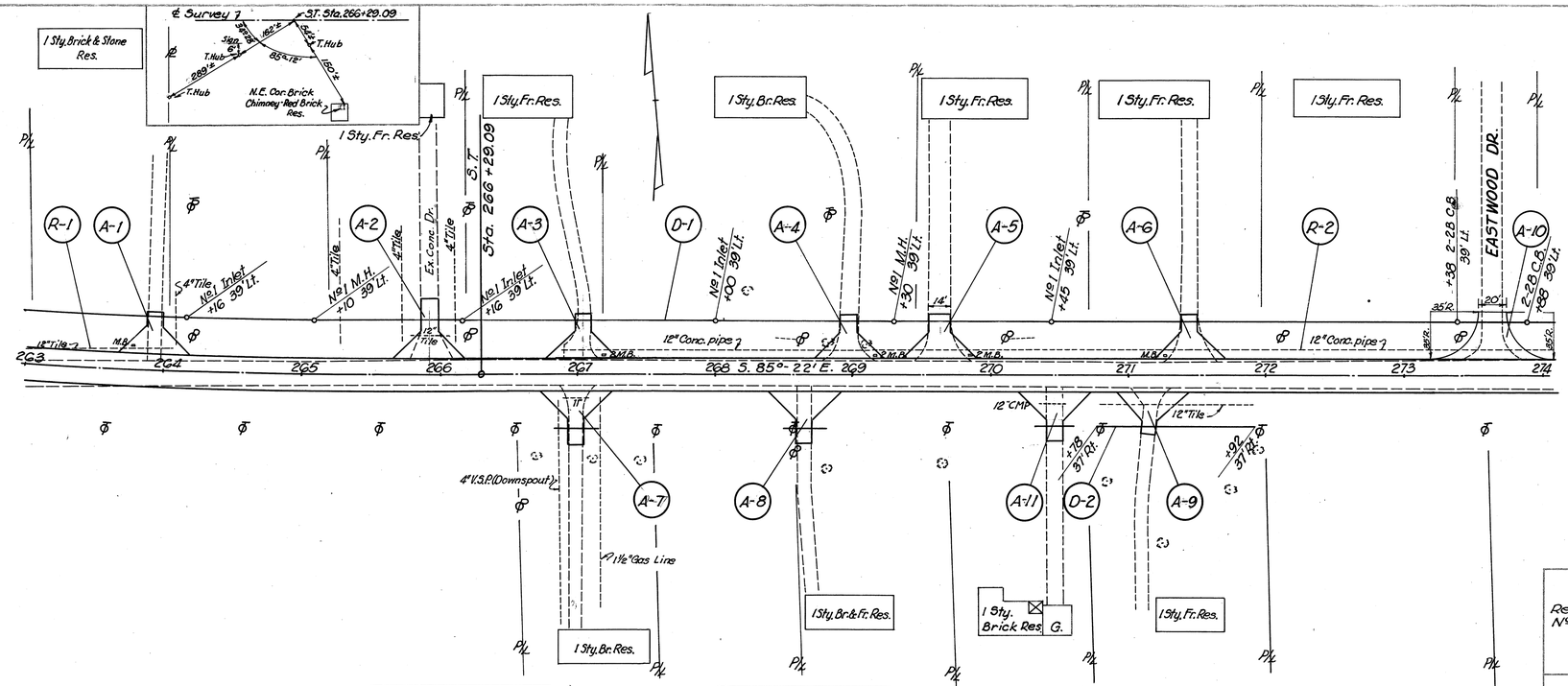
Excavation	2189	Cu.Yds.
Embankment	725	Cu.Yds.
Emb. + 25%	906	Cu.Yds.

Sta. 252+91.56 - 263+00

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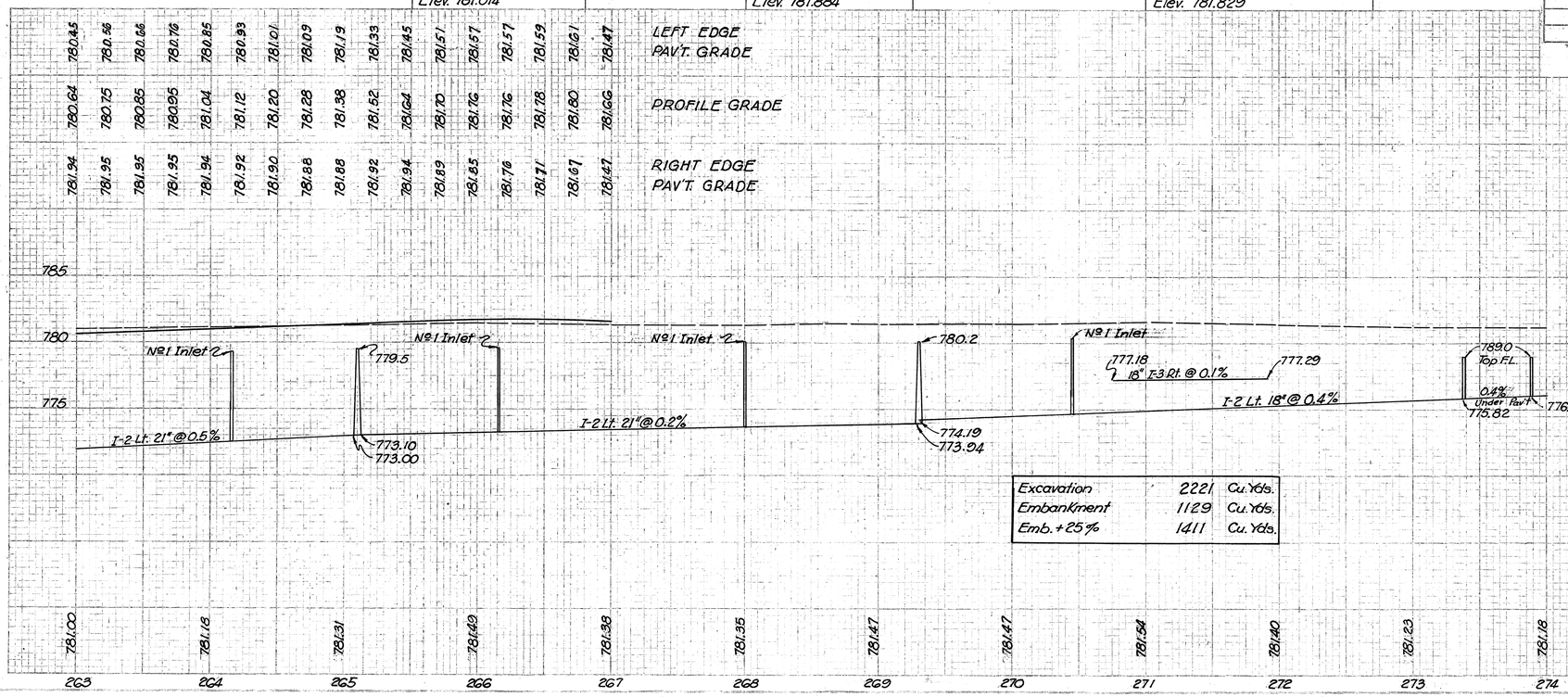
LOR-82-(4.79-12.47)



Ref. No	Station		T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushed Aggr. Base Course Cu. Yds. 5"	7"	I-1 Pipe for Drives Lin. Ft. 18"	B-35 Asph. Conc. Level. Course Cu. Yds. 2"	E-12 Pipe Remov. 15" & Under Lin. Ft.
A-1	263+93 Lt.	L=30'	4.7	12.0				
A-2	265+93 Lt.	L=43'	5.6	14.6				26
A-3	267+04 Lt.	L=32'	4.8	12.4				
A-4	268+98 Lt.	L=32'	4.8	12.4				
A-5	269+64 Lt.	L=32'	5.2	13.4				
A-6	271+45 Lt.	L=32'	4.8	12.4				
A-7	266+98 Rt.	L=39'	5.4	13.8		32		
A-8	268+66 Rt.	L=38'	5.3	13.6		32		
A-9	271+20 Rt.	L=30'	4.7	12.0				112
A-10	273+64 Lt.	L=34'	* 5.7		26.8		7.6	
A-11	270+46 Rt.	L=36'	5.1	13.5		28		20
R-1	263+00-264+06 Lt.							106
R-2	266+88-274+00 Lt.							712
	Totals		56.1	130.1	26.8	92	7.6	976

* Quantity Calculated for a depth of 1½"

Ref. No	Station	I-2 Class A Storm Sewers Std. 21" Lin. Ft.	Std. 18" Lin. Ft.	Under Pav't. 18" Lin. Ft.	I-8 No 1 M. H. Units	2-2-B Catch Basin Units	No 1 Side Inlets Units	I-3 Rdwy. Drain. 18" Lin. Ft.
D-1	263+00-274+00 Lt.	618	414	48	2	2	4	
D-2	270+78-271+92 Rt.							114
	Totals	618	414	48	2	2	4	114



Excavation	2221	Cu. Yds.
Embankment	1129	Cu. Yds.
Emb. +25%	1411	Cu. Yds.

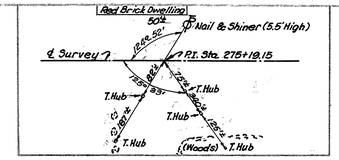
Sta. 263+00-274+00

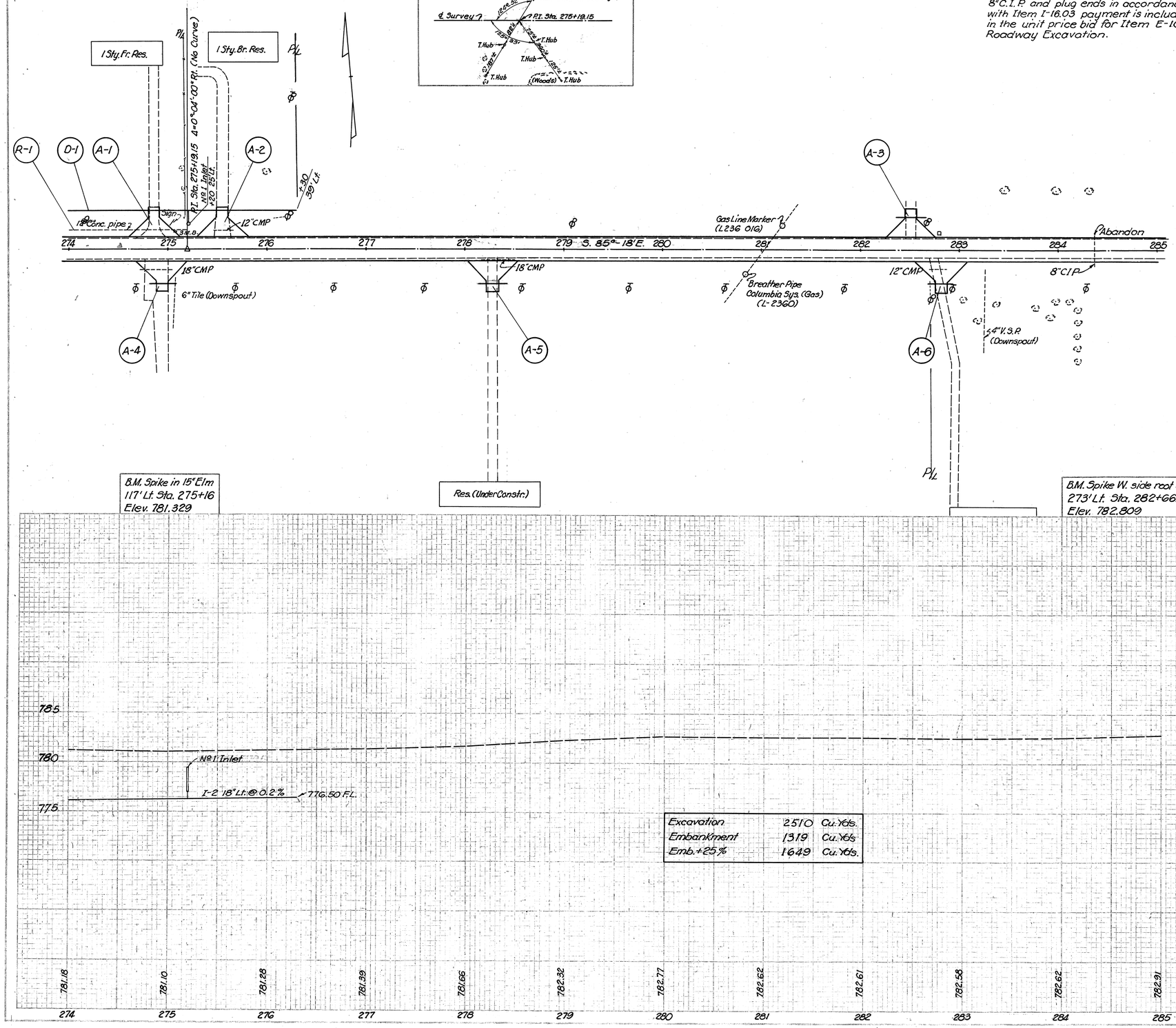
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NOTE: Sta. 284+38 abandon existing 8"C.I.P. and plug ends in accordance with Item I-16.03 payment is included in the unit price bid for Item E-101 Roadway Excavation.





Ref. Nº	Station		T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crush'd. Aggr. Base Course Cu. Yds. 5"	B-119 Crush'd. Aggr. Base Course Cu. Yds. 6"	I-1 Pipe for Drives Lin. Ft. 12"	I-1 Pipe for Drives Lin. Ft. 15"	E-12 Pipe Removal 15" & Under Lin. Ft.	E-12 Pipe Removal Over 15" Lin. Ft.
A-1	274+87 Lt.	L=30'	4.7	120					
A-2	275+55 Lt.	L=30'	4.7	120				20	
A-3	282+52 Lt.	L=32'			14.1	30			
A-4	274+93 Rt.	L=31'	4.8	120			28		34
A-5	278+28 Rt.	L=31'	4.8	120			30		34
A-6	282+82 Rt.	L=32'	4.8	124		28		18	
R-1	274+00 - 275+20 Lt.							120	
Totals			23.8	604	14.1	58	58	158	68

Ref. Nº	Station	I-2 Class A Storm Sewers Std. Lin. Ft. 12"	I-2 Class A Storm Sewers Under Pav't. Lin. Ft. 18"	I-2 Class A Storm Sewers Std. Lin. Ft. 18"	J-8 Nº 1 Side Inlet Units	J-5 Pipe Special Units
D-1	274+00 - 276+30 Lt.	12	40	186	1	*1
Totals		12	40	186	1	*1

* 18" x 12" Tee

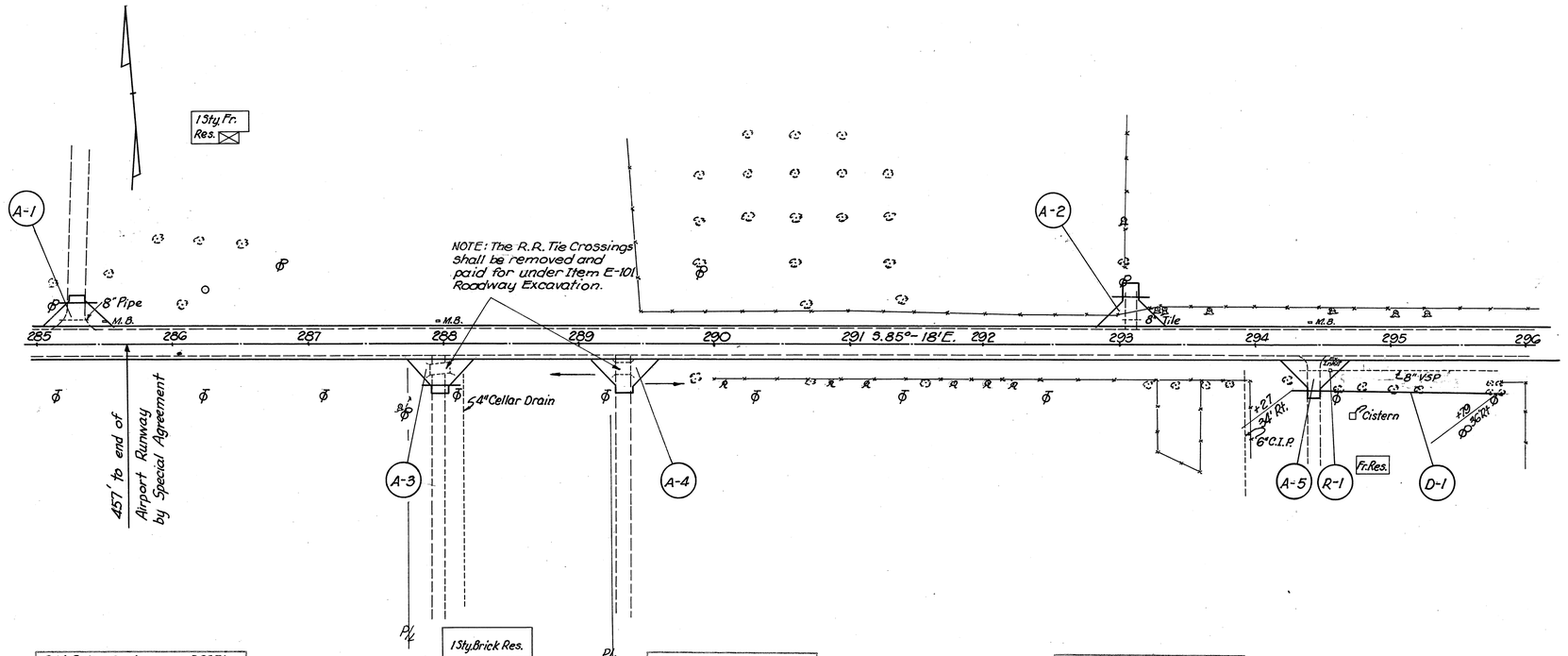
Excavation	2510	Cu. Yds.
Embankment	1319	Cu. Yds
Emb. +25%	1649	Cu. Yds.

Sta. 274+00 - 285+00

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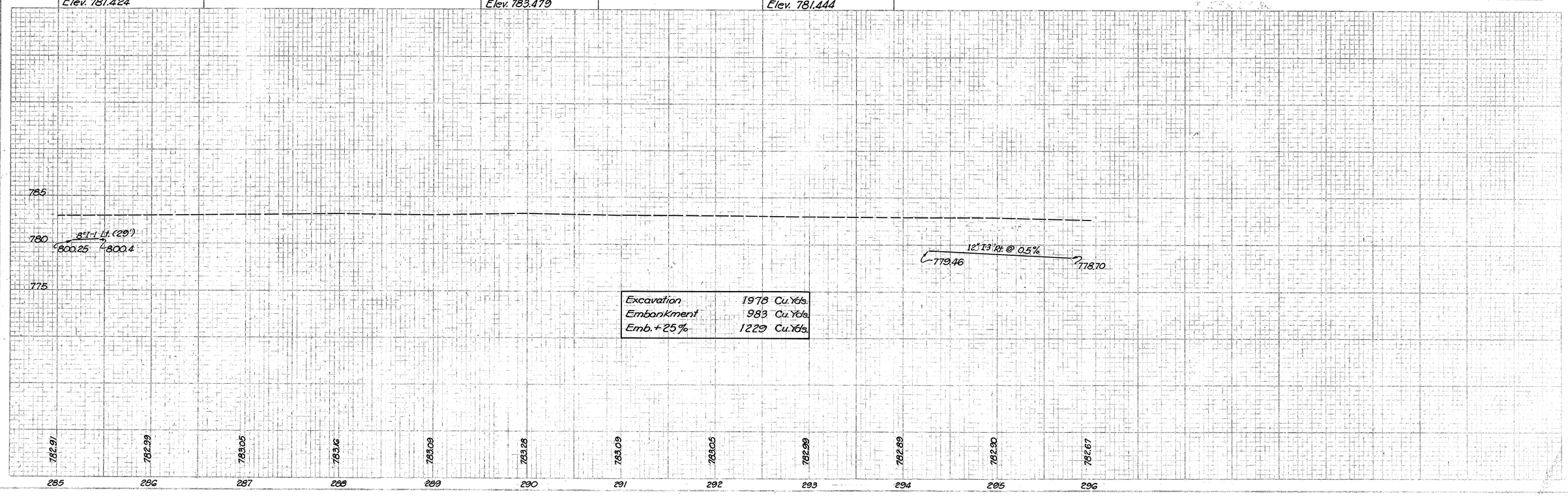
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B.M. Spike S. side root 56" Elm
140' Lt. Sta. 285+54
Elev. 781.424

B.M. Spike in power pole
51' Lt. Sta. 289+91
Elev. 783.479

B.M. Spike in W. Side 12" Elm
184' Lt. Sta. 293+06
Elev. 781.444



Excavation	1978 Cu.Yds.
Embankment	983 Cu.Yds.
Emb. +25%	1229 Cu.Yds.

Ref. Nº	Station		T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushd. Aggr. Base Course Cu. Yds. 5"	B-119 Crushd. Aggr. Base Course Cu. Yds. 6"	I-1 Pipe for Drives Lin. Ft. 8"	I-1 Pipe for Drives Lin. Ft. 12"	I-16 Catch Basin Aban. Units			
A-1	285+30	Lt. L=23'	4.2	10.6		30					
A-2	293+12	Lt. L=33'			13.2		28				
A-3	287+98	Rt. L=25'	4.3	11.0			28				
A-4	289+33	Rt. L=25'			11.4						
A-5	294+43	Rt. L=28'	4.6	11.5							
R-1	294+31 - 294+79	Rt.						1			
	Totals		13.1	33.1	24.6	30	56	1			

Ref. Nº	Station	I-3 Roadway Drainage Std. Lin. Ft. 12"	I-3 Roadway Drainage Under Pav't. Lin. Ft. 12"					
D-1	294+27 - 295+79	Rt.	132	20				
	Totals		132	20				

Sta. 285+00 - 296+00

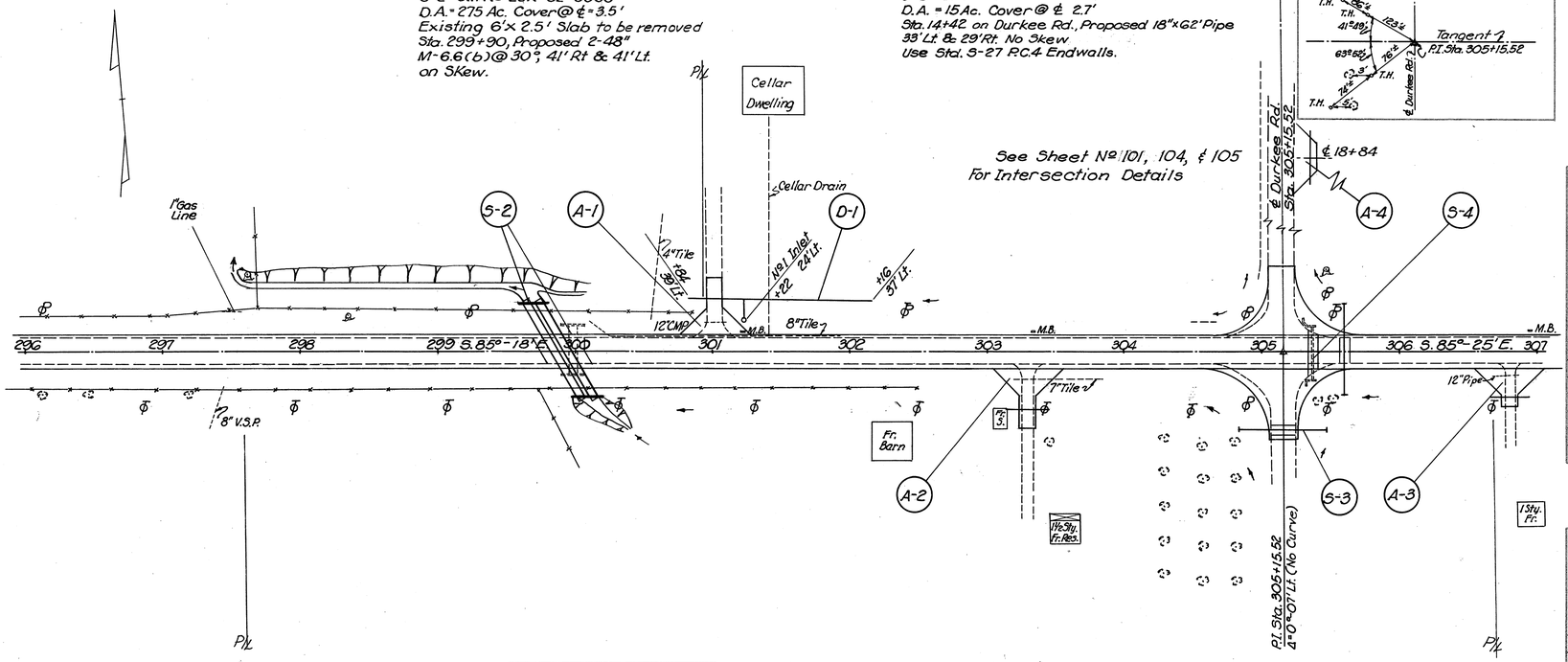
S-2 Str. Nº LOR-82-0568
D.A. = 275 Ac. Cover @ ℄ = 3.5'
Existing 6'x 2.5' Slab to be removed
Sta. 299+90, Proposed 2-48"
M-6.6(b) @ 30°, 41' Rt & 41' Lt.
on Skew.

S-3
D.A. = 15 Ac. Cover @ ℄ 2.7'
Sta. 14+42 on Durkee Rd., Proposed 18"x62' Pipe
33' Lt. & 29' Rt. No Skew
Use Std. S-27 P.C.4 Endwalls.

S-4 Str. Nº LOR-82-0579
D.A. 15 Ac. Cover @ ℄ 2.7'
Sta. 305+36 Remove Exist. 18"x45' V.S.P.
Sta. 305+60 Proposed 18"x68' Pipe
35' Lt. & 33' Rt. No Skew
Use Std. S-27 P.C.4 Endwalls

FED. RD. DIVISION	STATE	PROJECT	
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LOR-82-(4.79-12.47)



Ref. Nº	Station	T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-11.9 Crushd. Aggr. Base Course Cu. Yds. 5"	6"	I-1 Pipe for Drives Lin. Ft. 15"	18"	E-12 Pipe Removal 15" & Under Lin. Ft.	Over 15" Lin. Ft.	I-3 Rdwy. Drain. Lin. Ft. 12"	I-5 Pipe Special Units	I-8 Nº 1 Side Inlet Units
A-1	301+02 Lt. L=42'	5.6	14.4				16				
A-2	303+30 Rt. L=44'	5.7	14.8			32					
A-3	306+79 Rt. L=28'	4.5	11.6		28		20				
A-4	18+84 (Durkee Rd.)			7.9		40		18			
D-1	300+84 - 302+16 Lt.								140	*1	1
	Totals	15.8	40.8	7.9	28	72	36	18	140	*1	1

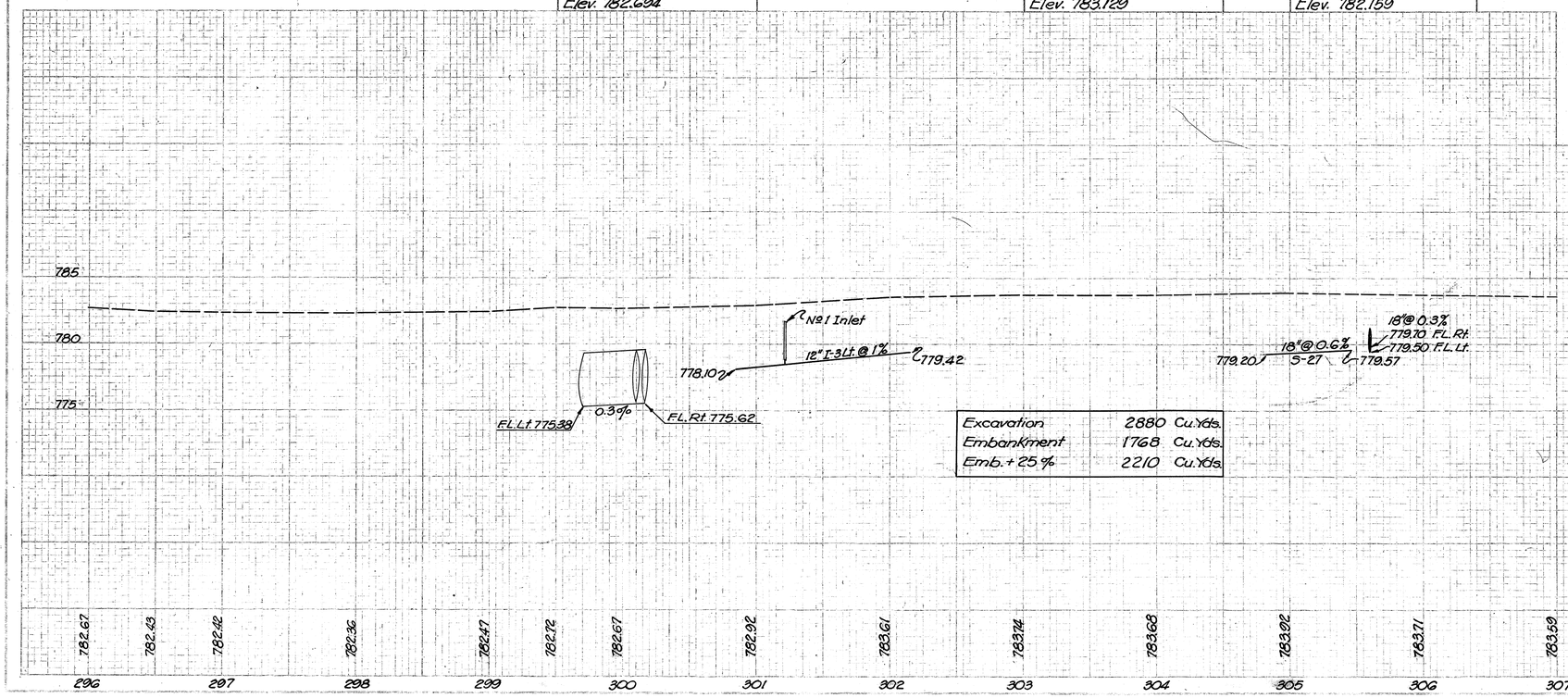
* 12" x 12" Tee

Ref. Nº	Station	S-27 Pipe for Rdwy. Culv. Lin. Ft. 18"	E-2 Excav. for Struct. Cu. Yds.	S-1 Conc. for Struct. Cu. Yds.	S-24 Struct. Remov. Lump	S-27 Rdwy. Culv. M-66(b) Lin. Ft. 48"	Base Replac-ement Sq. Yds.		E-3 Chann. Excav. Cu. Yds.	S-4 Reinf. Steel Lbs.
S-2	299+90		24	8.9	1	164	70.5		740	159
S-3	14+42 Durkee Rd.	62	28	0.6			14.0			
S-4	305+60	68	28	0.6	1		37.3			
	Totals	130	80	10.1	2	164	121.8		740	159

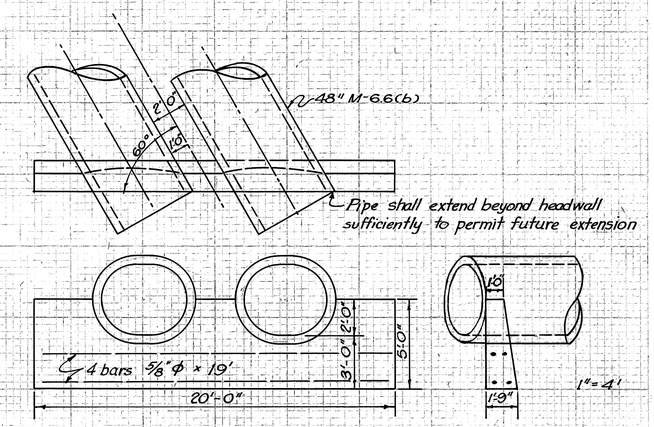
B.M. "X" S.W. end Culvert Hdwl.
17.5' Rt. Sta. 299+00
Elev. 782.694

B.M. Spike in S. side Tel. pole
43' Rt. Sta. 303+43
Elev. 783.129

B.M. Spike in S. side 15" Elm
225½ Lt. Sta. 305+42
Elev. 782.159



Excavation	2880 Cu. Yds.
Embankment	1768 Cu. Yds.
Emb. + 25%	2210 Cu. Yds.



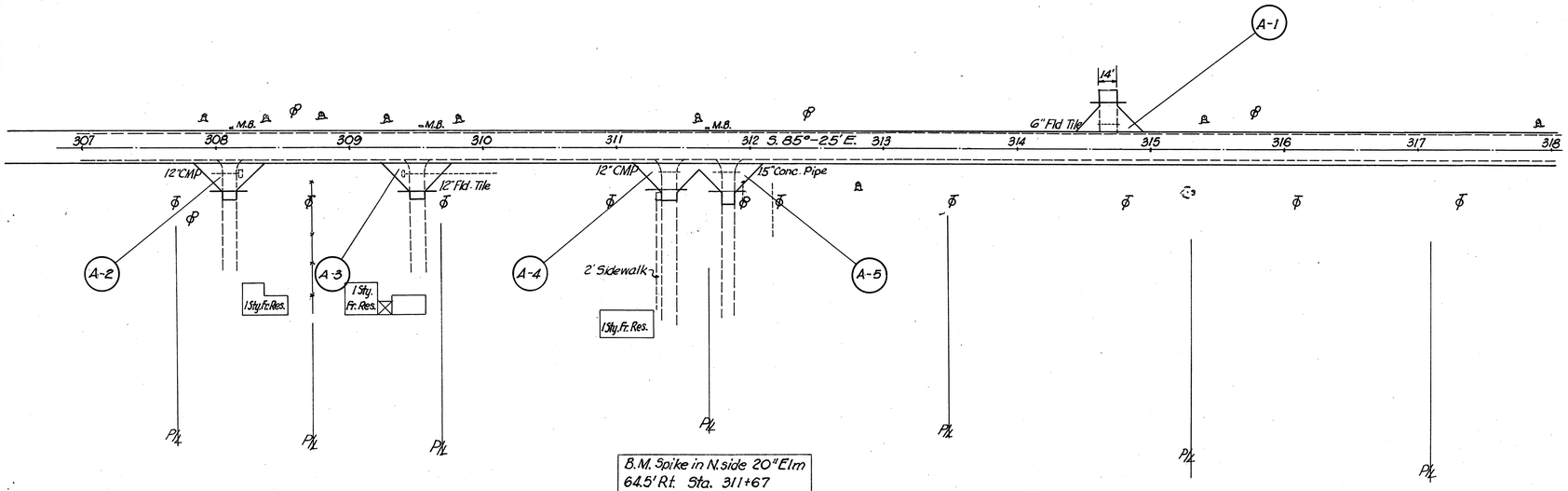
HEADWALL DETAILS AT STA. 299+90

Sta. 296+00 - 307+00

FED. RD. DIVISION	STATE	PROJECT	
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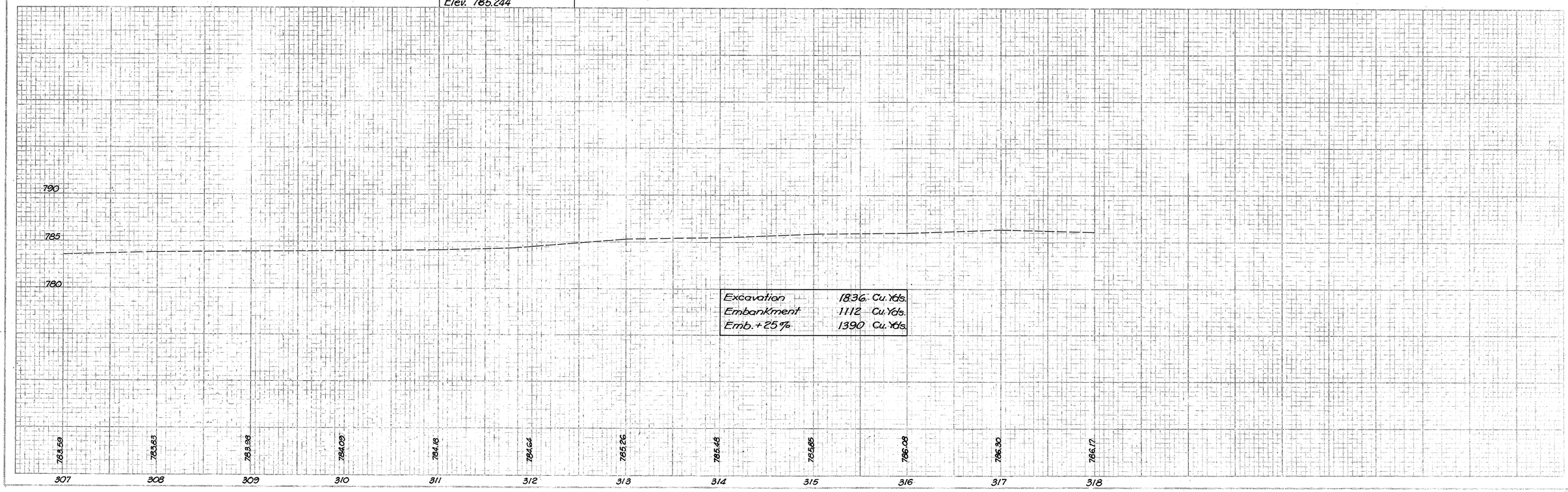
14
14.6

LOR-82-(4.79-12.47)



B.M. Spike in N. side 20" Elm
64.5' Rt. Sta. 311+67
Elev. 785.244

Ref. N's	Station	T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushed Aggr. Base Course Cu. Yds. 5"	B-119 Crushed Aggr. Base Course Cu. Yds. 6"	I-1 Pipe for Drives Lin. Ft. 12"	I-1 Pipe for Drives Lin. Ft. 15"	E-12 Pipe Remov. 15" & Under Lin. Ft.	E-8 Side-Walk Remov'l Sq. Ft.	I-13 4" Conc. Side-Walk Sq. Ft.	
A-1	314+70 Lt. L=31'			150	28					
A-2	308+09 Rt. L=27'	4.5	11.4			28	20			
A-3	309+51 Rt. L=27'	4.5	11.4			28	70			
A-4	311+39 Rt. L=27'	4.5	11.4			32	16	16	16	
A-5	311+83 Rt. L=29'	4.6	11.8			28	20			
	Totals	18.1	46.0	150	28	116	126	16	16	



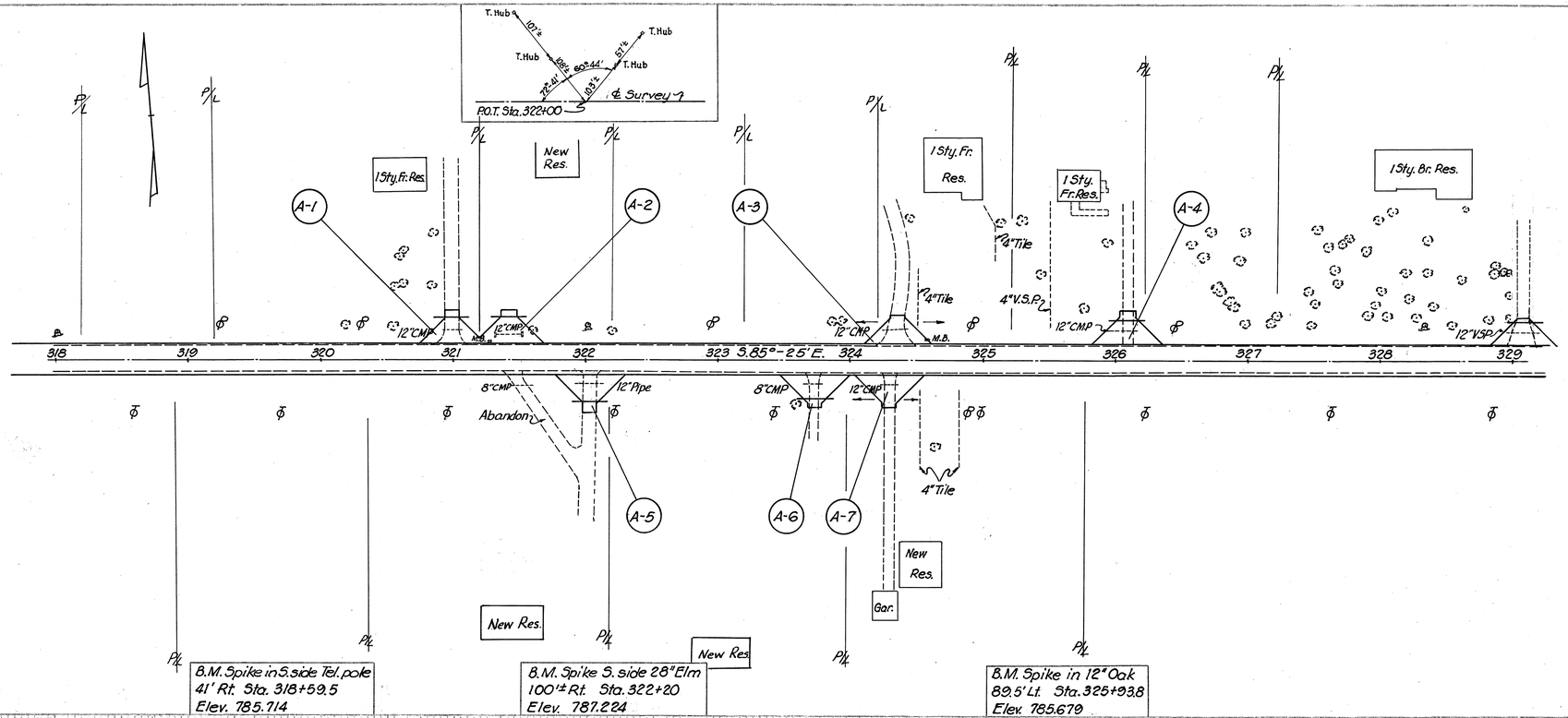
Excavation	1836 Cu. Yds.
Embankment	1112 Cu. Yds.
Emb. + 25%	1390 Cu. Yds.

Sta. 307+00 - 318+00

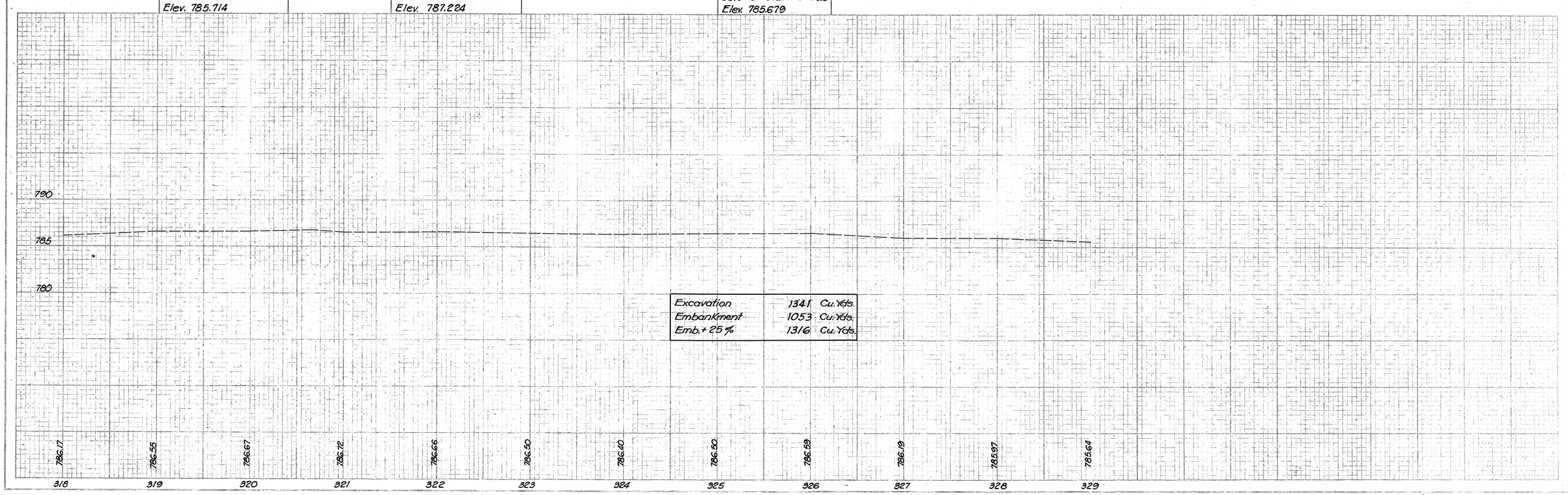
FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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LOR-82-(4.79-12.47)



Ref. Nº	Station	T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushd. Aggr. Base Course Cu. Yds. 5"	B-119 Crushd. Aggr. Base Course Cu. Yds. 6"	I-1 Pipe for Drives Lin. Ft. 12"	E-12 Pipe Remov. 15" & Under Lin. Ft.			
A-1	320+98 Lt. L=26'	4.4	11.2		28	15			
A-2	321+42 Lt. L=26'	4.4	11.2		28	22			
A-3	324+37 Lt. L=23'	4.2	10.6			20			
A-4	326+05 Lt. L=25'	4.3	11.0		28	20			
A-5	322+04 Rt. L=28'	4.6	11.6		28	22			
A-6	323+73 Rt. L=23'	4.2	10.6		30				
A-7	324+30.5 Rt. L=23'	4.2	10.6			14			
	Totals	30.3	76.8		142	113			



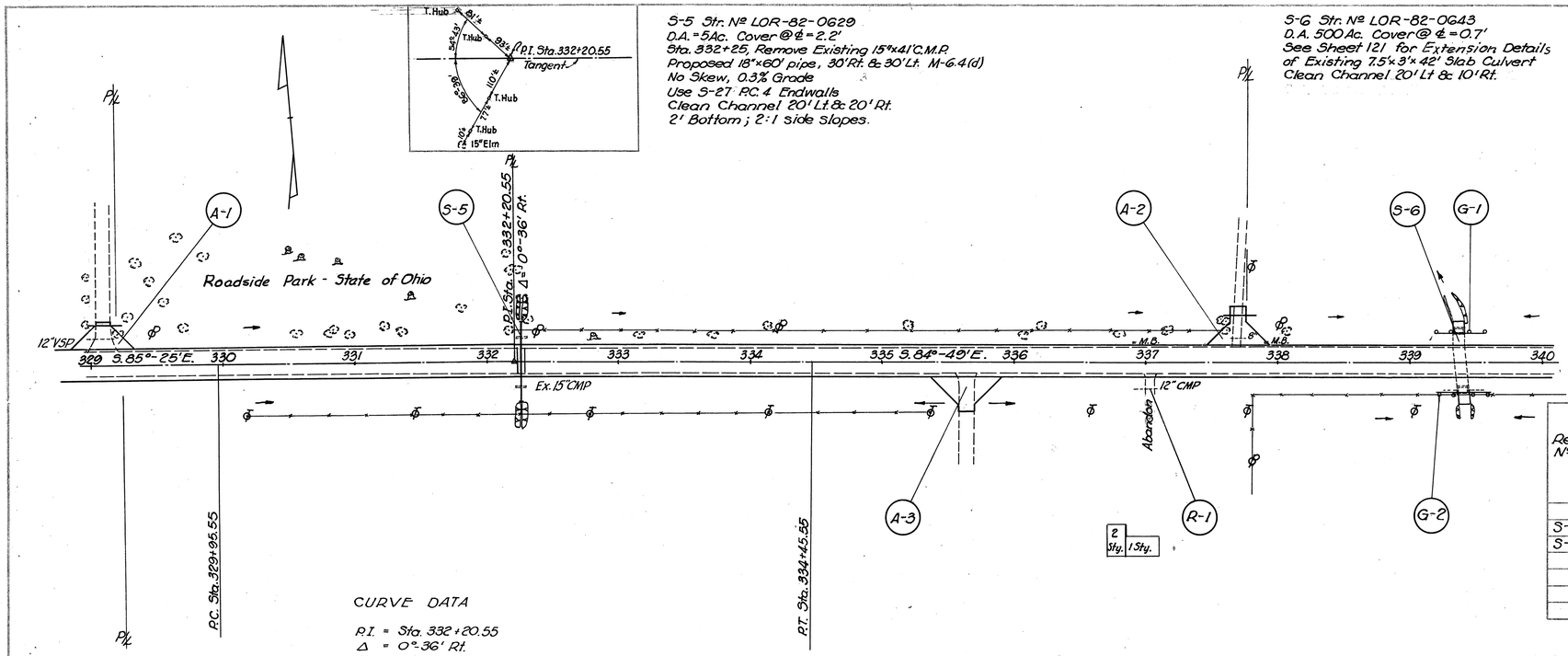
Excavation	134.1	Cu. Yds.
Embankment	1053	Cu. Yds.
Emb. + 25 %	1316	Cu. Yds.

Sta. 318+00 - 329+00

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S-5 Str. Nº LOR-82-0629
D.A. = 5 Ac. Cover @ ℄ = 2.2'
Sta. 332+25, Remove Existing 15"x41' C.M.P.
Proposed 18"x60' pipe, 30' Rt. & 30' Lt. M-6.4(d)
No Skew, 0.3% Grade
Use S-27 P.C. 4 Endwalls
Clean Channel 20' Lt & 20' Rt.
2' Bottom; 2:1 side slopes.

S-6 Str. Nº LOR-82-0643
D.A. 500 Ac. Cover @ ℄ = 0.7'
See Sheet 121 for Extension Details
of Existing 7.5'x 3'x 42' Slab Culvert
Clean Channel 20' Lt & 10' Rt.

Ref. Nº	Station	T-35 Asph. Conc. Surface Course Cu.Yds. 2"	B-119 Crushd. Aggr. Base Course Cu.Yds. 5"	I-1 Pipe for Drives Lin.Ft. 12"	I-1 Pipe for Drives Lin.Ft. 15"	E-12 Pipe Remov. 15" & Under Lin.Ft.	I-15 Guard Rail Stl.Beam Deep Lin.Ft.			
R-1	336+90-337+08 Rt.					18				
A-1	329+08.6 Lt. L=22'	4.1	10.4	30		20				
A-2	337+70.5 Lt. L=31'	4.8	12.2		28					
A-3	335+6.4 Rt. L=25'	4.3	11.0							
G-1	339+20-339+57.5 Lt.						37.5			
G-2	339+22-339+59.7 Rt.						37.5			
Totals		13.2	33.6	30	28	38	75.0			

Ref. Nº	Station	S-24 Struct. Remov. Lump	S-27 Pipe for Adwy. Culv. Lin.Ft. 18" M-6.4(d)	E-2 Excav. for Struct. Cu.Yds.	S-1 Conc. for Struct. Cu.Yds.	Base Replac ement Sq.Yds.			E-3 Chann. Excav. Cu.Yds.		
S-5	332+25	1	60	16	0.6	16.7			10		
S-6	See Sheet 121										
Totals		1	60	16	0.6	16.7			10		

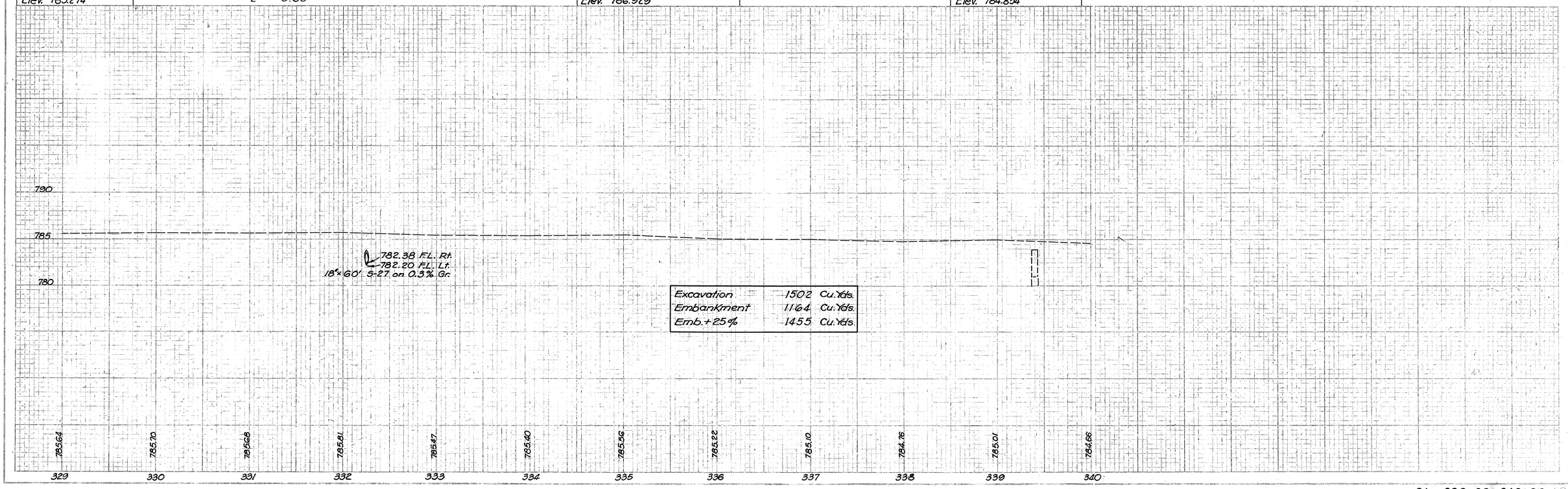
CURVE DATA

P.I. = Sta. 332+20.55
Δ = 0°-36' Rt.
D = 0°-08'
T = 225.00'
L = 450.00'
E = 0.60

B.M. Spike S. side 48" Oak
107.8' Lt. Sta. 329+01
Elev. 785.274

B.M. "X" Top of Iron ring in old conc. foundation, 184.5' Rt. Sta. 335+24.5
Elev. 786.929

B.M. "X" S.W. Cor. Conc. Culvert
19.5' Rt. Sta. 339+57
Elev. 784.854



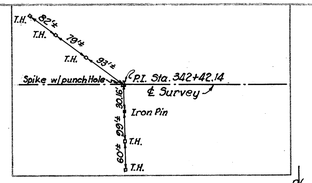
Excavation	1502	Cu.Yds.
Embankment	1164	Cu.Yds.
Emb. + 25%	1455	Cu.Yds.

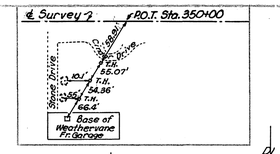
Sta. 329+00-340+00

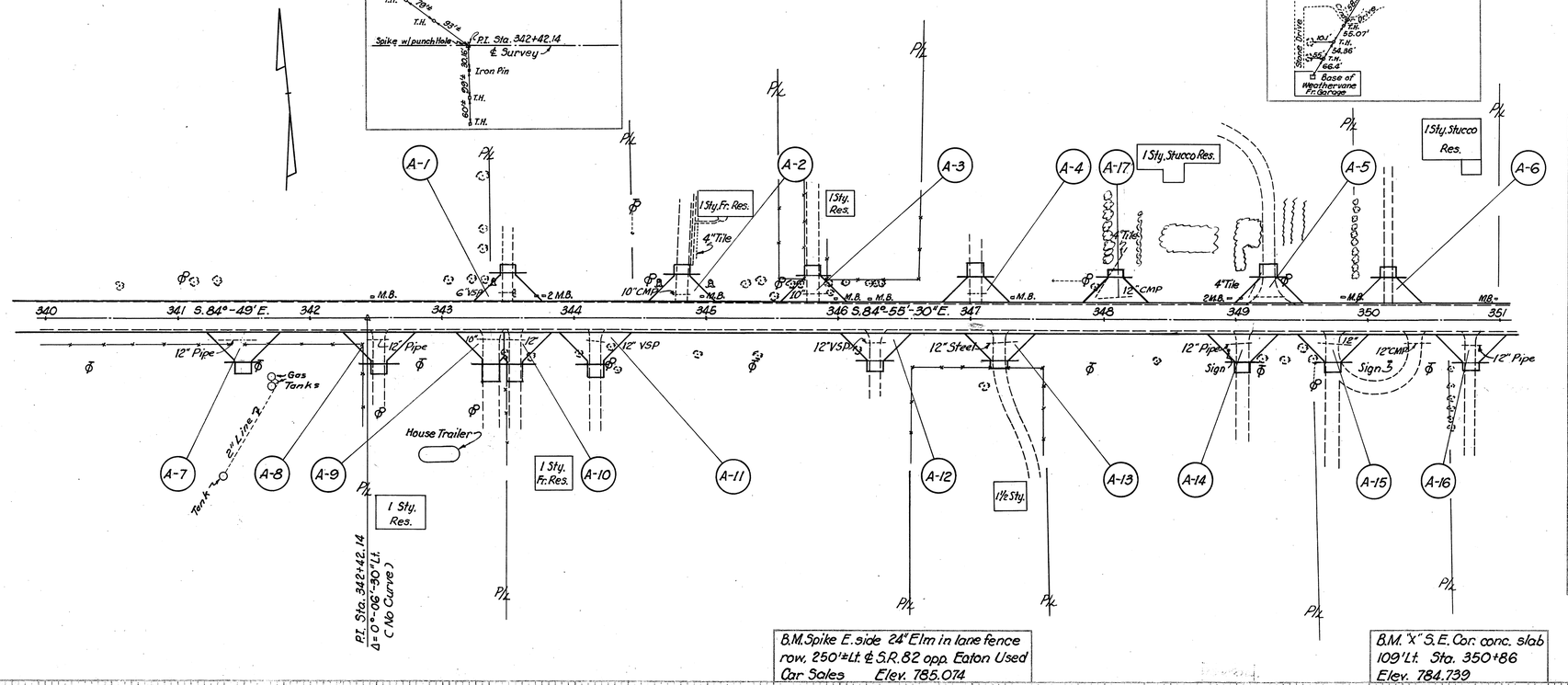
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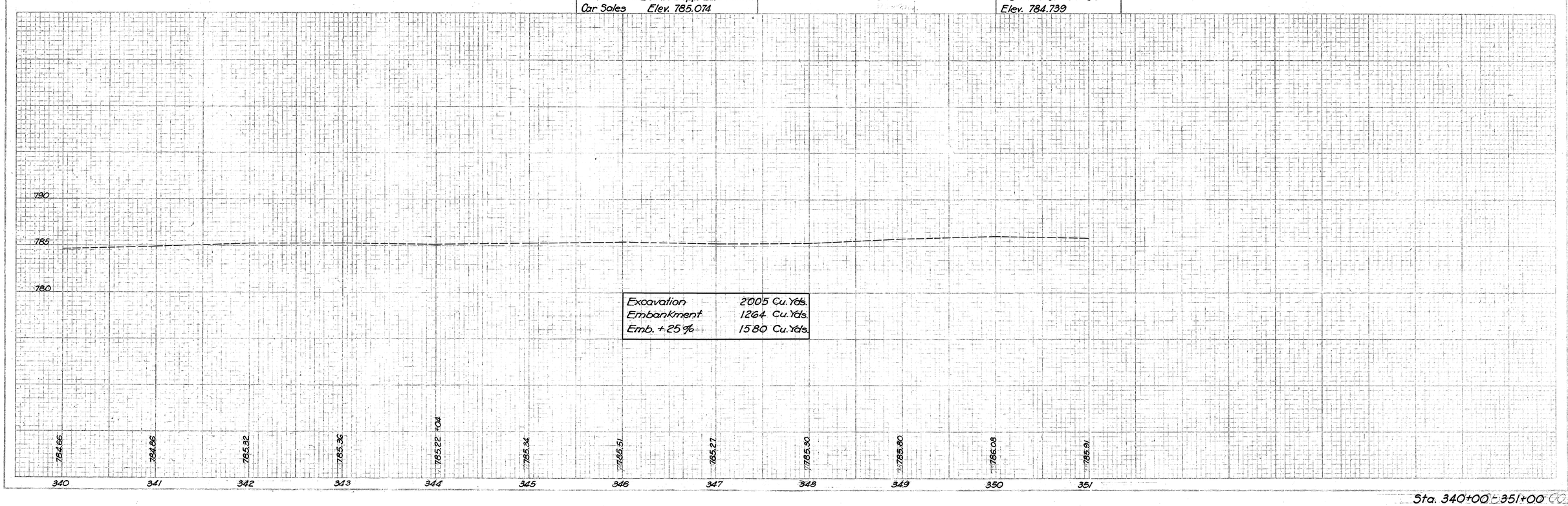




B.M. Spike E. side 24" Elm in lane fence row, 250'± Lt. ℄ S.R. 82 opp. Eaton Used Car Sales Elev. 785.074

B.M. "X" S.E. Cor. conc. slab 109' Lt. Sta. 350+86 Elev. 784.739

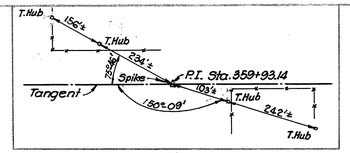
Ref. Nº	Station			T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushd. Aggr. Base Course Cu. Yds. 5"	6"	I-1 pipe for Drives. Lin. Ft. 12"	15"	E-12 Pipe Remov. 15" & Under Lin. Ft.
A-1	343+54	Lt.	L=29'	4.6	11.8		28		
A-2	344+81	Lt.	L=29'	4.6	11.8		28		
A-3	345+79	Lt.	L=28'	4.6	11.6		28		
A-4	347+03	Lt.	L=30'			13.7	28		
A-5	349+25	Lt.	L=30'	4.7	12.0		30		24
A-6	350+15	Lt.	L=28'	4.6	11.6		28		
A-7	341+49	Rt.	L=30'			13.7		28	30
A-8	342+54	Rt.	L=30'	4.7	12.0			30	18
A-9	343+36	Rt.	L=36'	4.3	11.0			25	36
A-10	343+55	Rt.	L=36'	4.3	11.0			25	
A-11	344+16	Rt.	L=33'	4.9	12.6			30	15
A-12	346+28	Rt.	L=28'	4.6	11.6			28	16
A-13	347+23	Rt.	L=25'	4.3	11.0		28		24
A-14	349+06	Rt.	L=28'	4.6	11.6		28		20
A-15	349+74	Rt.	L=28'	4.6	11.6		28		46
A-16	350+81	Rt.	L=26'	4.4	11.2		28		15
A-17	348+09	Lt.	L=25'			13.0	28		26
	Totals			63.8	162.4	40.1	310	166	270



Excavation	2005 Cu. Yds.
Embankment	1264 Cu. Yds.
Emb. + 25%	1580 Cu. Yds.

Sta. 340+00 - 351+00

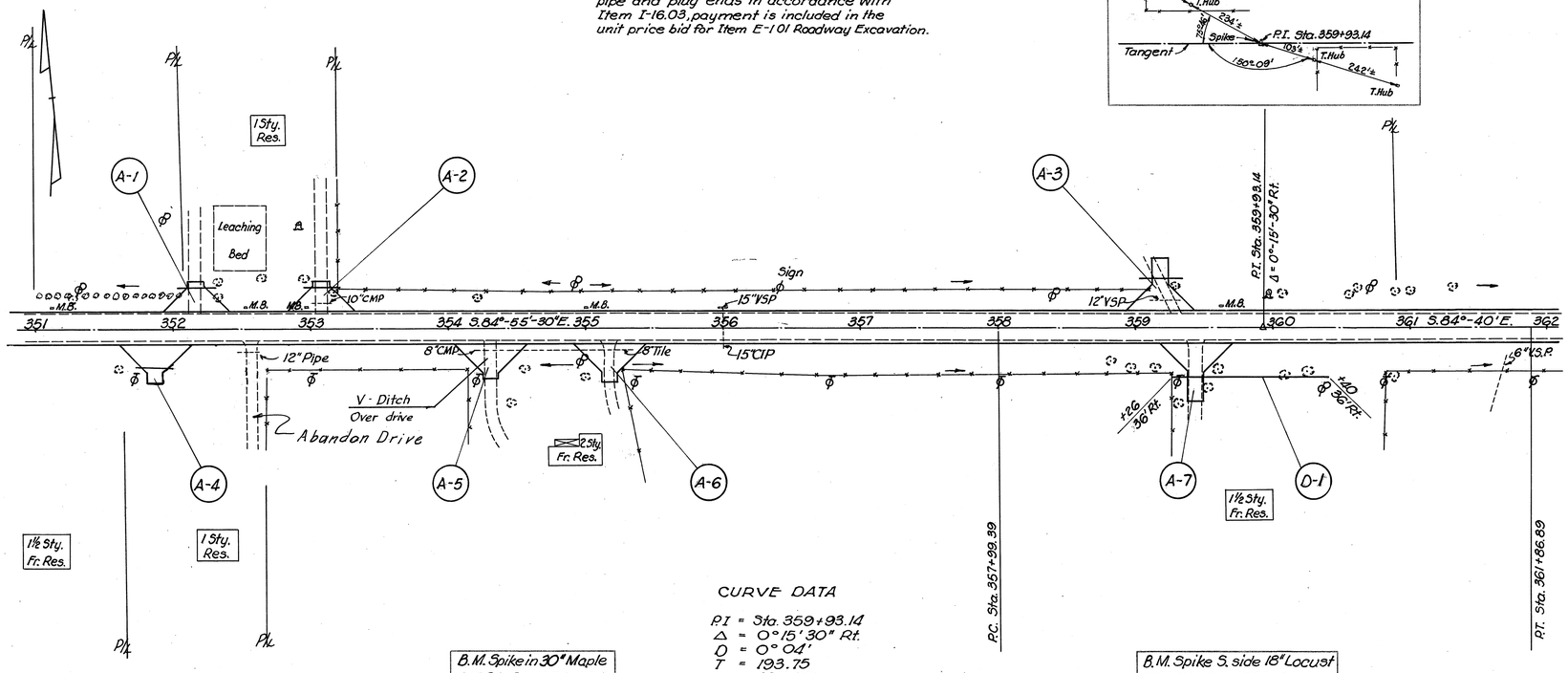
NOTE: Sta. 356+00 abandon existing 15" pipe and plug ends in accordance with Item I-16.03, payment is included in the unit price bid for Item E-101 Roadway Excavation.



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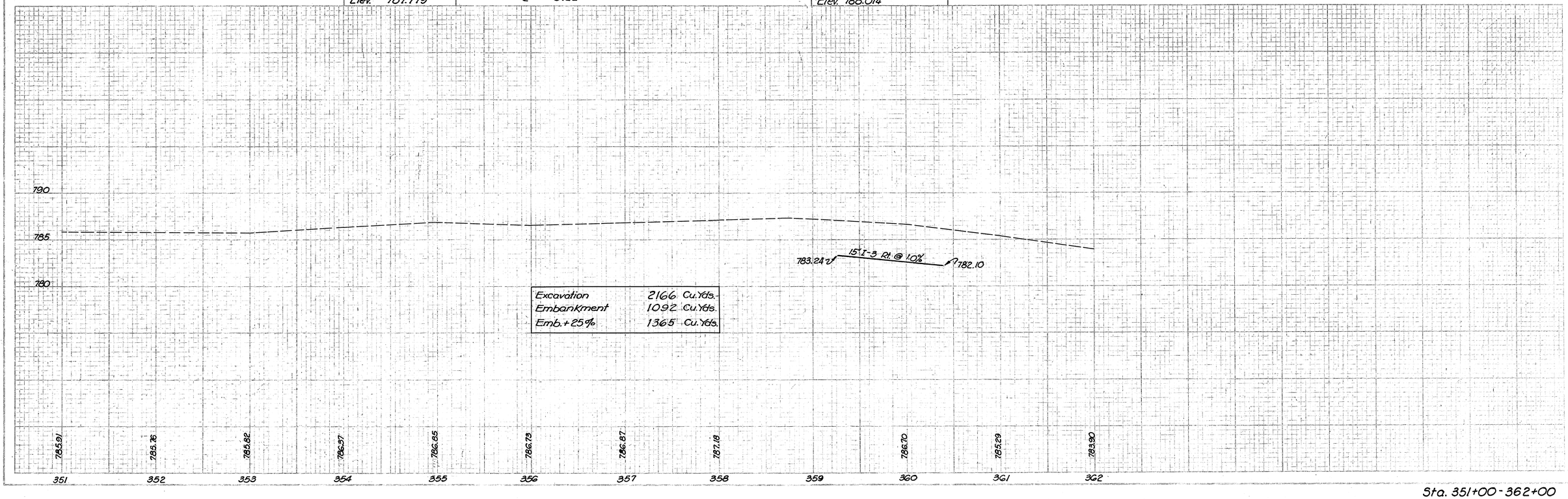
B.M. Spike in 30" Maple
30' Rt. Sta. 354+56.5
Elev. 787.779

B.M. Spike S. side 18" Locust
112' Rt. Sta. 359+37
Elev. 788.014

CURVE DATA

P.I = Sta. 359+93.14
Δ = 0°15'30" Rt.
D = 0°04'
T = 193.75
L = 387.50
E = 0.22

Ref. No	Station			T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushd. Aggr. Base Course Cu. Yds. 5"	B-119 Crushd. Aggr. Base Course Cu. Yds. 6"	I-1 Pipe for Drives Lin. Ft. 8"	I-1 Pipe for Drives Lin. Ft. 12"	E-12 Pipe Remov. 15" & Under Lin. Ft.	I-3 Rdwy. Drainage Lin. Ft. 15"	I-3 Rdwy. Drain. Under Pav't Lin. Ft. 15"
A-1	352+17	Lt.	L=23'	4.2	10.6		28				
A-2	353+08	Lt.	L=23'	4.2	10.6		28				
A-3	359+18	Lt.	L=39'			15.6		32	22		
A-4	351+88	Rt.	L=26	4.4	11.2			28	16		
A-5	354+31	Rt.	L=24	4.3	10.8						
A-6	355+19	Rt.	L=27	4.5	11.4						
A-7	359+44	Rt.	L=42'	5.6	14.4						
D-1	359+26 - 360+40	Rt.								94	20
	Totals			27.2	69.0	15.6	56	60	38	94	20



Excavation	2166 Cu. Yds.
Embankment	1092 Cu. Yds.
Emb. + 25%	1365 Cu. Yds.

Sta. 351+00 - 362+00

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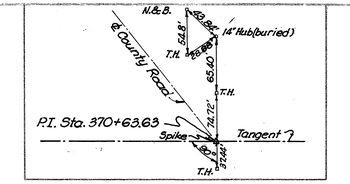
LOR-82-(4.79-12.47)

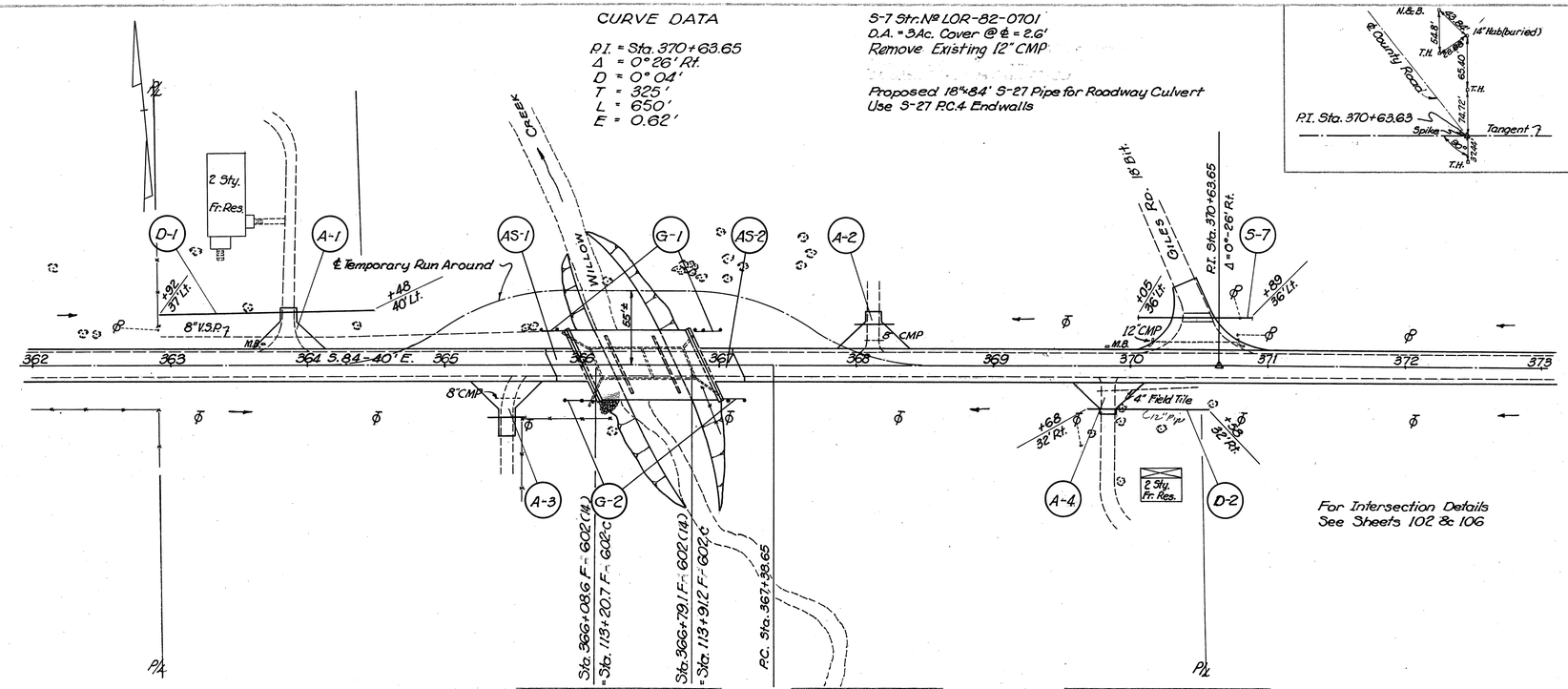
CURVE DATA

P.I. = Sta. 370+63.65
Δ = 0°26' Rt.
D = 0°04'
T = 325'
L = 650'
E = 0.62'

S-7 Str. Nº LOR-82-0701
D.A. = 3Ac. Cover @ ℄ = 2.6'
Remove Existing 12" CMP

Proposed 18"x84' S-27 Pipe for Roadway Culvert
Use S-27 P.C.4 Endwalls





For Intersection Details
See Sheets 102 & 106

B.M. Spike S.W. End Wood Wheel Rail, 12.5' Rt. Sta. 366+14
Elev. 784.249

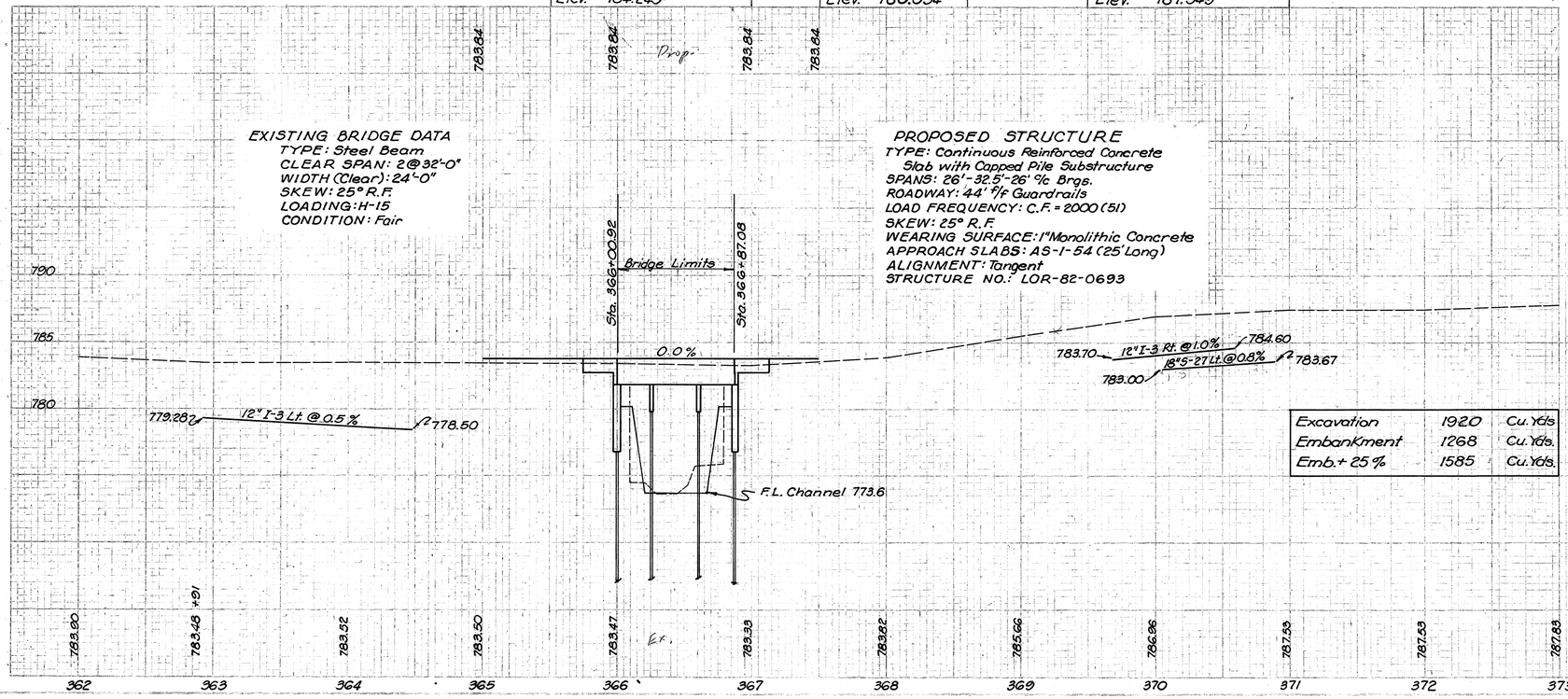
B.M. Spike in 30" Elm 129' Rt. Sta. 366+25
Elev. 780.034

B.M. Spike in 18" Elm on Co. Rd. 194' Lt. Sta. 370+12
Elev. 787.349

Sta. 366+08.6 F - 602(14) = Sta. 113+20.7 F - 602.c
Sta. 366+79.1 F - 602(14) = Sta. 113+91.2 F - 602.c

Ref. Nº	Station	T-35 Asph. Conc. Surface Course Cu.Yds. 2"	B-119 Crushed Aggr. Base Course Cu.Yds. 5"	B-119 Crushed Aggr. Base Course Cu.Yds. 6"	I-1 Pipe for Drives Lin.Ft. 15"	I-3 Roadway Drainage Std. Lin.Ft. 12"	I-3 Roadway Drainage Under Pav't Lin.Ft. 12"
A-1	363+87 Lt. L=30'	4.7	12.0				
A-2	368+14 Lt. L=27'			13.0	28		
A-3	365+45 Rt. L=40'			15.9	30		
A-4	369+83 Rt. L=23'	4.2	10.6				
D-1	362+92-364+48 Lt.					136	20
D-2	369+68-370+58 Rt.					70	20
	Totals	8.9	22.6	28.9	58	206	40

Ref. Nº	Station	S-1 Conc. for Struc. Cu.Yds.	E-2 Excav. for Struc. Cu.Yds.	S-27 Rdwy. Culv. Lin.Ft. 18"	S-24 Struc. Remov. Lump	I-7 Conc. Appr. Slabs Sq.Yds. T=13"	I-22 Sub-base Cu.Yds. 6"±	I-15 Guard Rail Stl. Beam (Deep) Lin.Ft.	Base Replacement Sq.Yds.
S-7	Giles Road	0.6	27	84	1				15.9
AS-1	365+75.92-366+00.92					66.7	11.6		
AS-2	366+87.08-367+12.08					66.7	11.6		
G-1	365+74.52-366+99.52 Lt.							38.84	
G-2	365+88.48-367+13.48 Rt.							38.84	
	Totals	0.6	27	84	1	133.4	23.2	77.68	15.9



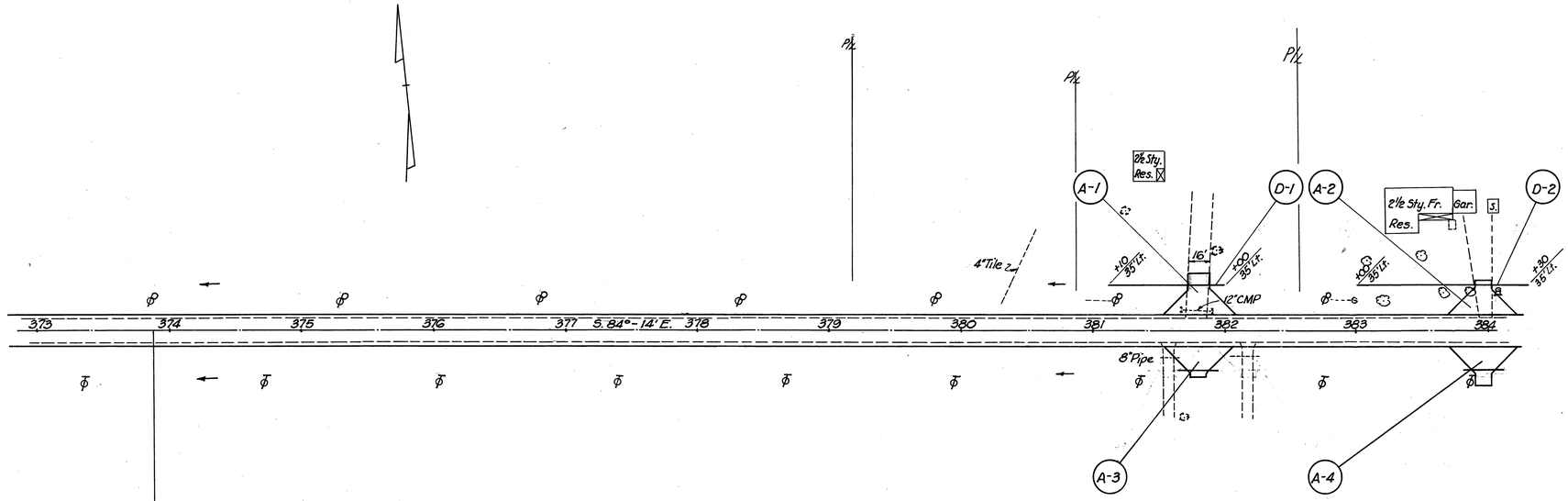
Excavation	1920	Cu.Yds.
Embankment	1268	Cu.Yds.
Emb. + 25%	1585	Cu.Yds.

Sta. 362+00 - 373+00

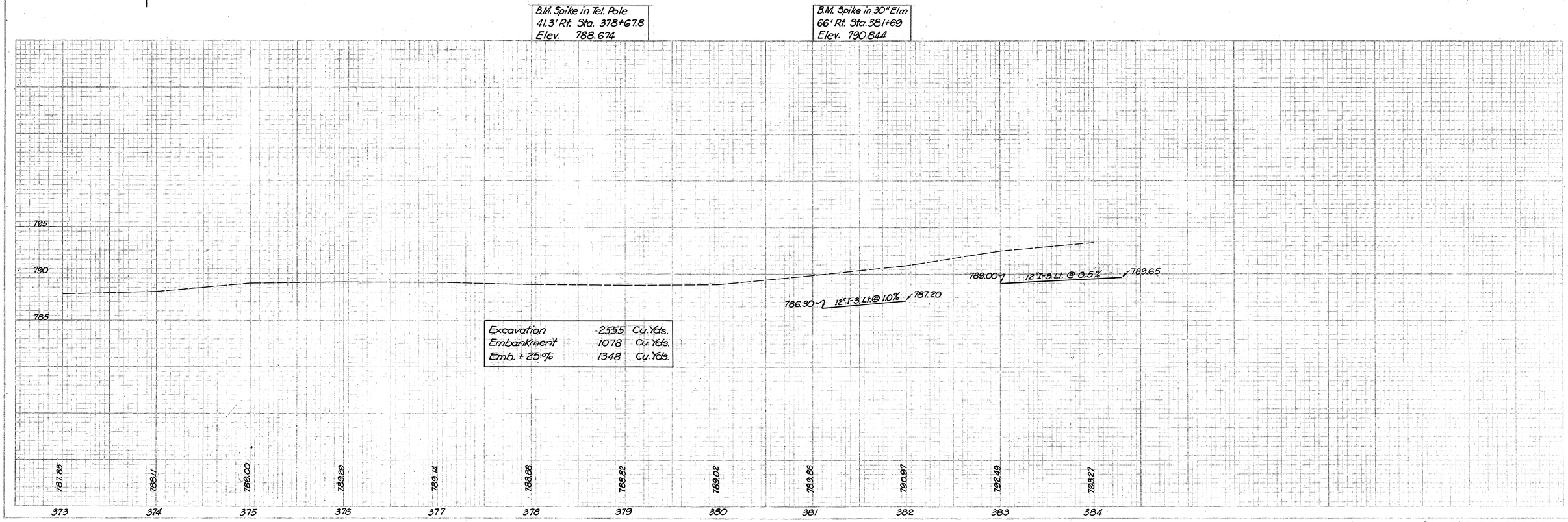
FED. RD. DIVISION	STATE	PROJECT	
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LOR-82-(4.79-12.47)



Ref. Nº	Station	T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushd. Aggr. Base Course Cu. Yds. 5"	B-119 Crushd. Aggr. Base Course Cu. Yds. 6"	I-1 Pipe for Drives Lin. Ft. 12"	E-12 Pipe Remov. 15" & Under Lin. Ft.	I-3 Roadway Drainage Std. Lin. Ft. 12"	I-3 Roadway Drainage Under Pav't. Lin. Ft. 12"
A-1	381+81 Lt. L=31'	5.5	14.1			24		
A-2	383+96 Lt. L=26'	4.4	11.2					
A-3	381+81 Rt. L=23'			12.0	30			
A-4	383+96 Rt. L=30'			13.7	30			
D-1	381+10-382+00 Lt.						66	24
D-2	383+00-384+00 Lt.						84	16
	Totals	9.9	25.3	25.7	60	24	150	40



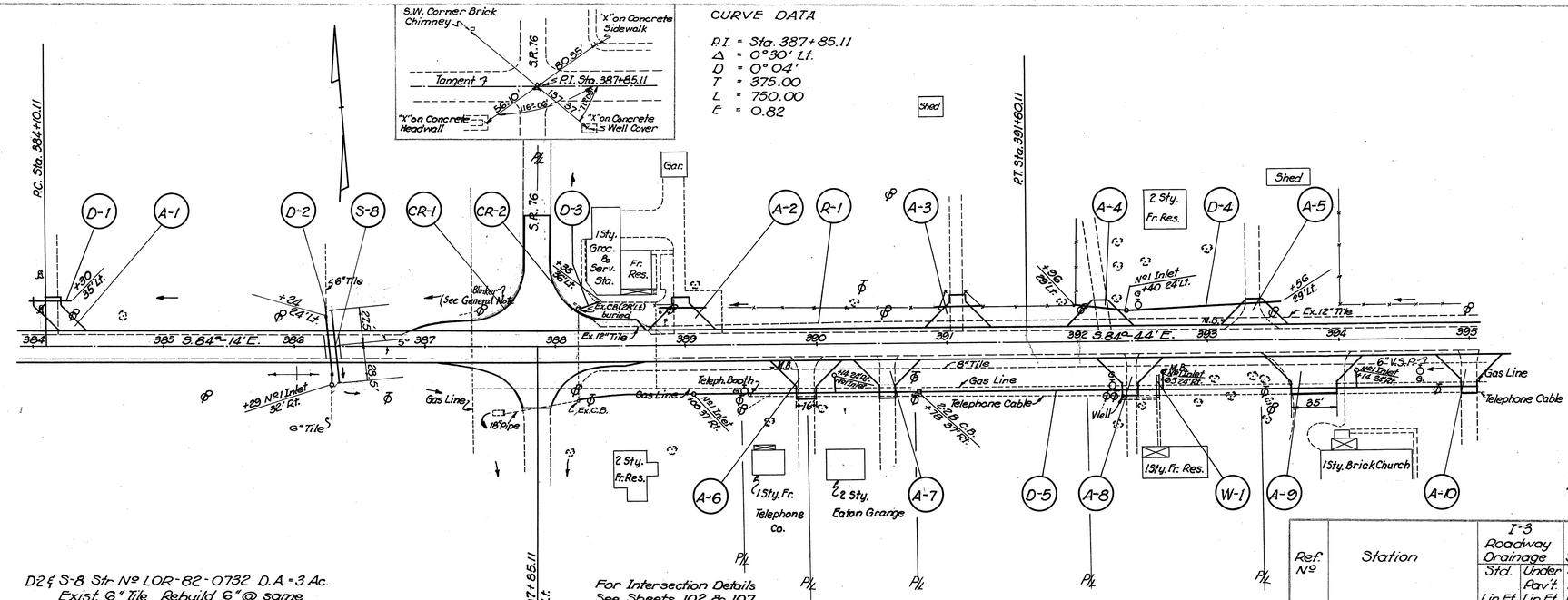
Excavation	2555	Cu. Yds.
Embankment	1078	Cu. Yds.
Emb. + 25%	1348	Cu. Yds.

Sta. 373+00-384+00

FED. RD. DIVISION	STATE	PROJECT		
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LOR-82-(4.79-12.47)



D2 & S-8 Str. No LOR-82-0732 D.A. = 3 Ac.
Exist. 6" Tile Rebuild 6" @ same line and grade as Exist. Construct 15" Culvert @ Sta. 386+30 with S-27 PC-4 Endwalls.
℄ Cover 2.2'

For Intersection Details See Sheets 102 & 107

B.M. Spike in root of 30" Maple 80.7' Rt. Sta. 388+11.7 Elev. 793.779

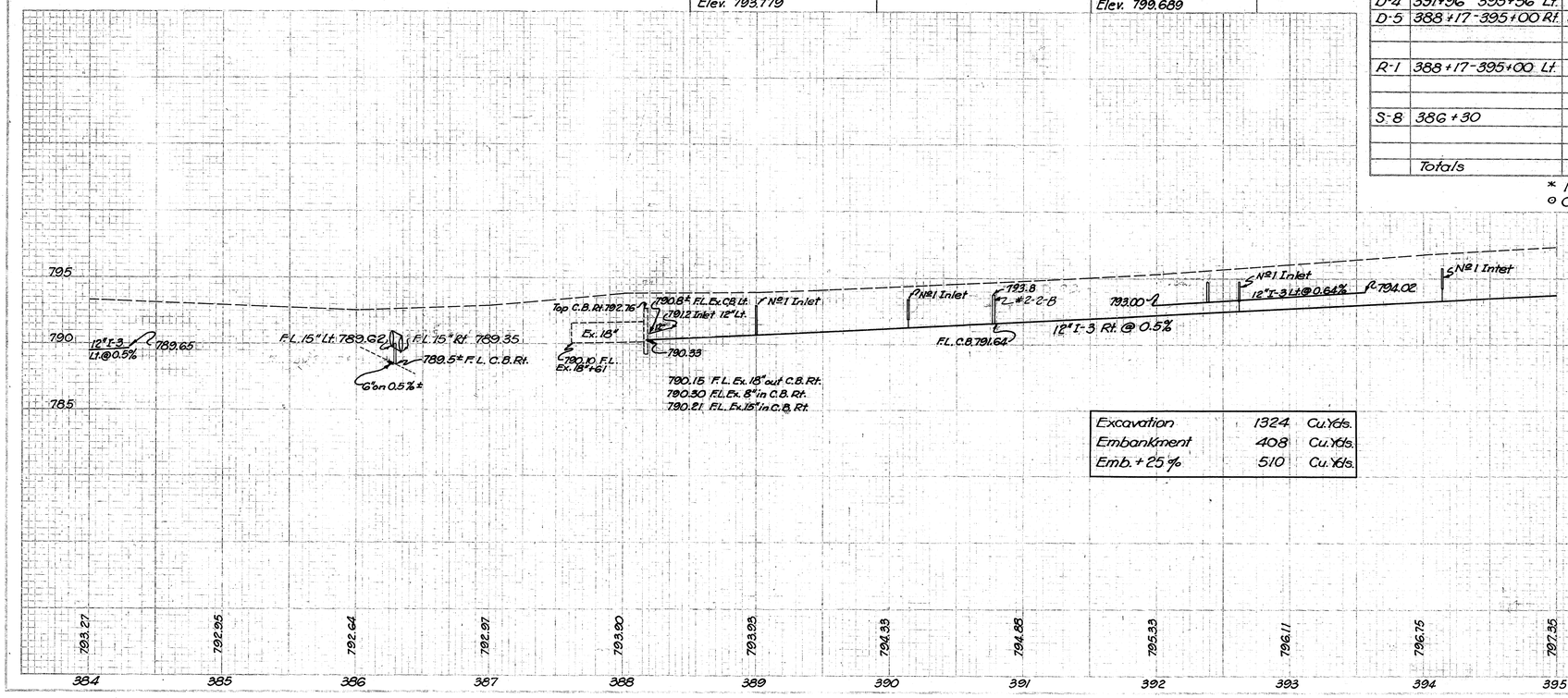
B.M. "X" E. end lower step of 2 Sty. Fr. House (White) Lt. Elev. 799.689

Ref. No	Station		T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushed Aggregate Base Course Cu. Yds. 5"	B-119 Crushed Aggregate Base Course Cu. Yds. 6"	B-119 Crushed Aggregate Base Course Cu. Yds. 7"	I-1 Pipe for Drives Lin. Ft. 12"	E-8 Curb Removl Lin. Ft.	E-8 Side Walk Removl Sq. Ft.	I-13 Conc. Side Walk Sq. Ft. 4"
A-1	384+15	Lt. L=26'			11.8					
A-2	388+96	Lt. L=25'	4.3			15.3	36			
A-3	391+08	Lt. L=25'	4.3			15.3	36			
A-4	392+17	Lt. L=20'	4.0	10.0						
A-5	393+36	Lt. L=20'	4.0	10.0						
A-6	389+93	Rt. L=30'	5.4			15.0				
A-7	390+54	Rt. L=30'	4.7			16.7				
A-8	392+40	Rt. L=30'	4.8	12.0						
A-9	393+81	Rt. L=30'	9.0			31.4				
A-10	395+00	Rt. L=30'	4.7	12.0						
CR-1	387+35-387+73	Lt.						△ 63		
CR-2	387+97-388+35	Lt.						△ 61		
W-1	392+62								40	40
	Totals		45.2	44.0	11.8	93.7	72	△ 124	40	40

△ Remove raised portion of curb only and resurface over the remainder.

Ref. No	Station	I-3 Roadway Drainage Std. Lin. Ft. 12"	I-3 Roadway Drainage Under Pav't. Lin. Ft. 12"	I-2 Class A Strm. Sewer Under Pav't. Lin. Ft. 6"	I-2 Class A Strm. Sewer Std. Lin. Ft. 12"	I-8 No 1 Inlet Units	I-8 Std. 2-2-B Catch Basin Units	I-16 Catch Basin Aban. Units	I-5 Pipe Special Units	E-12 Pipe Remov. 15" & Under Lin. Ft.	E-2 Excav. for Struct. Cu. Yds.	S-27 Pipe for Adwy. Culv. Lin. Ft. 15" M-64.1	S-1 Conc. for Struct. Cu. Yds.	Base Replac-ement Sq. Yds.
D-1	384+00-384+30		30											
D-2	386+25			56		1		2						
D-3	388+17-388+36	Lt.			18			°1						
D-4	391+96-393+56	Lt. 84	74			1								
D-5	388+17-395+00	Rt. 516	126			4	1		* 3					
R-1	388+17-395+00	Lt.						1		690				
S-8	386+30										11	56	0.5	24.4
	Totals	660	230	56	18	6	1	4	* 3	690	11	56	0.5	244

* 12" x 12" Tees
° Construct a 6" slab on existing basin. Cost included in Item I-16



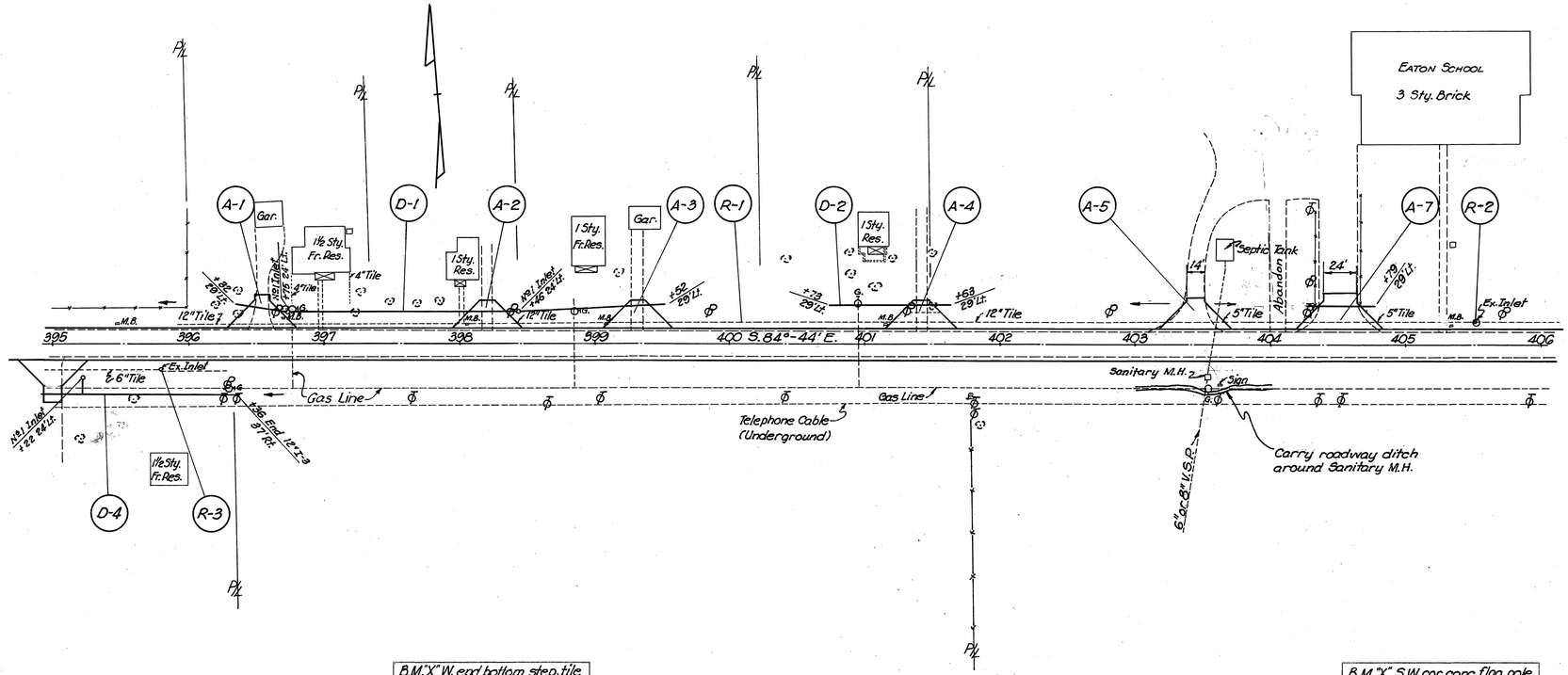
Excavation	1324	Cu. Yds.
Embankment	408	Cu. Yds.
Emb. + 25 %	510	Cu. Yds.

Sta. 384+00 - 395+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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LOR-82-(4.79-12.47)



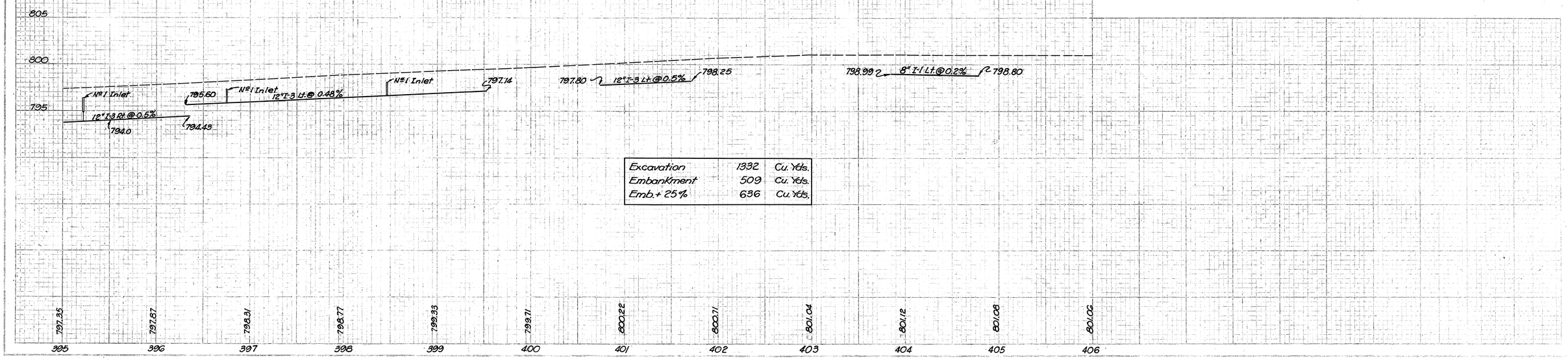
B.M. "X" W. end bottom step, tile house, 42.5' Lt. Sta. 397+97 Elev. 799.689

B.M. "X" S.W. cor. conc. flag pole base, 72.8' Lt. Sta. 405+33.2 Elev. 800.919

Ref. Nº	Station	T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushed Aggregate Base Course Cu. Yds. 5"	6"	7"	E-12 Pipe Remov. 15" & Under Lin. Ft.	I-16 Catch Basin Aban. Units			
A-1	396+54 Lt. L=24'	4.3	10.8							
A-2	398+23 Lt. L=20'	4.0	10.0							
A-3	399+32 Lt. L=20'	4.0	10.0							
A-4	401+43 Lt. L=20'	4.0	10.0							
A-5	403+45 Lt. L=22'	4.4			15.4					
A-7	404+52 Lt. L=25'	6.2			21.8					
R-1	395+00-403+20 Lt.					820				
R-2	405+52 Lt.						1			
R-3	395+81 Rt.						1			
	Totals	26.9	40.8		37.2	820	2			

Ref. Nº	Station	I-1 Pipe for Drives 8" Lin. Ft.	I-3 Roadway Drainage Std. 12" Lin. Ft.	Under Pav't. 12" Lin. Ft.	I-8 Nº 1 Inlet Units	I-5 Pipe Special Units			
D-1	396+32-399+52 Lt.		204	112	2				
D-2	400+73-401+63 Lt.		62	28					
D-3	404+29-404+79 Lt.	50							
D-4	395+00-396+36 Rt.		132	10	1	*1			
	Totals	50	398	150	3	*1			

* 12" x 12" Tee



Excavation	1332	Cu. Yds.
Embankment	509	Cu. Yds.
Emb. + 25%	636	Cu. Yds.

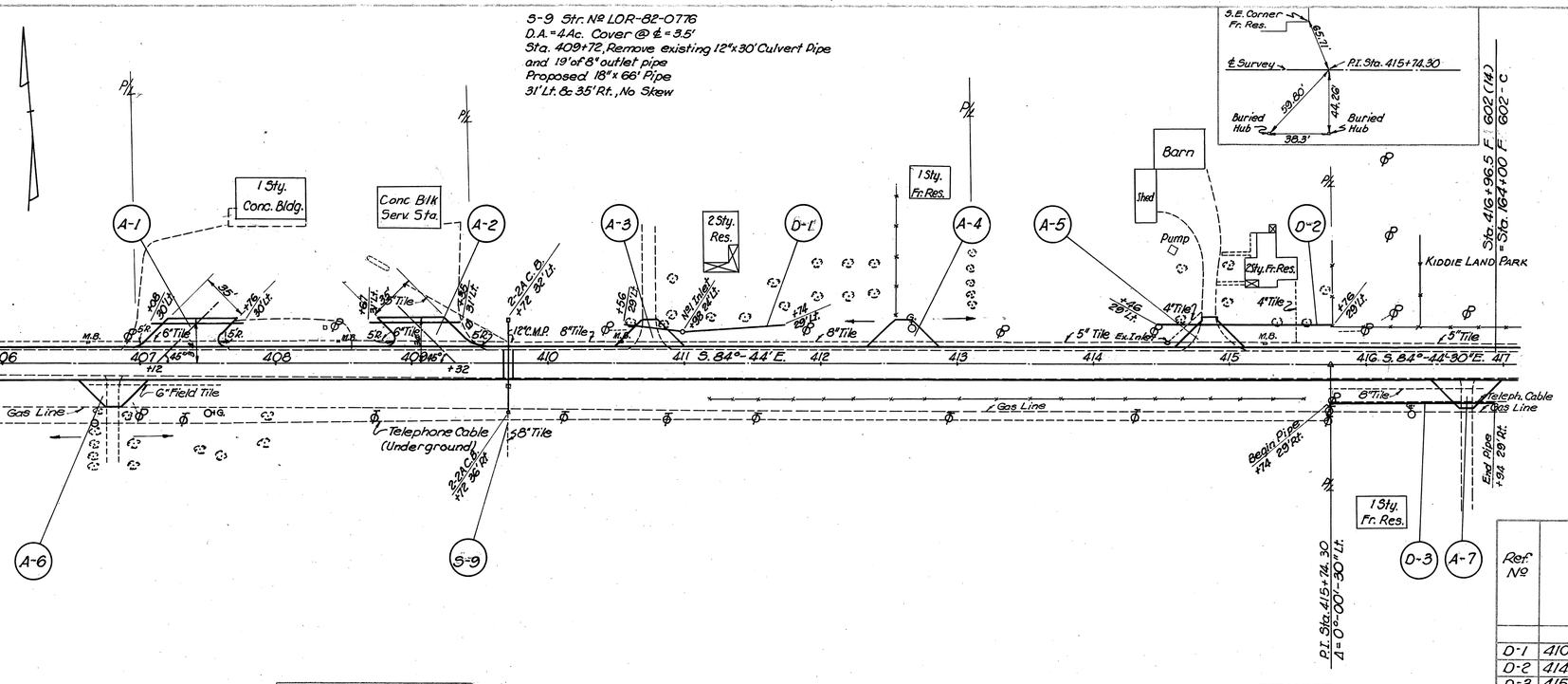
Sta. 395+00-406+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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LOR-82-(4.79-12.47)

S-9 Str. No LOR-82-0776
D.A. = 4 Ac. Cover @ ℄ = 3.5'
Sta. 409+72, Remove existing 12"x30' Culvert Pipe and 19' of 8" outlet pipes
Proposed 18"x 66' Pipe
31' Lt. & 35' Rt., No Skew

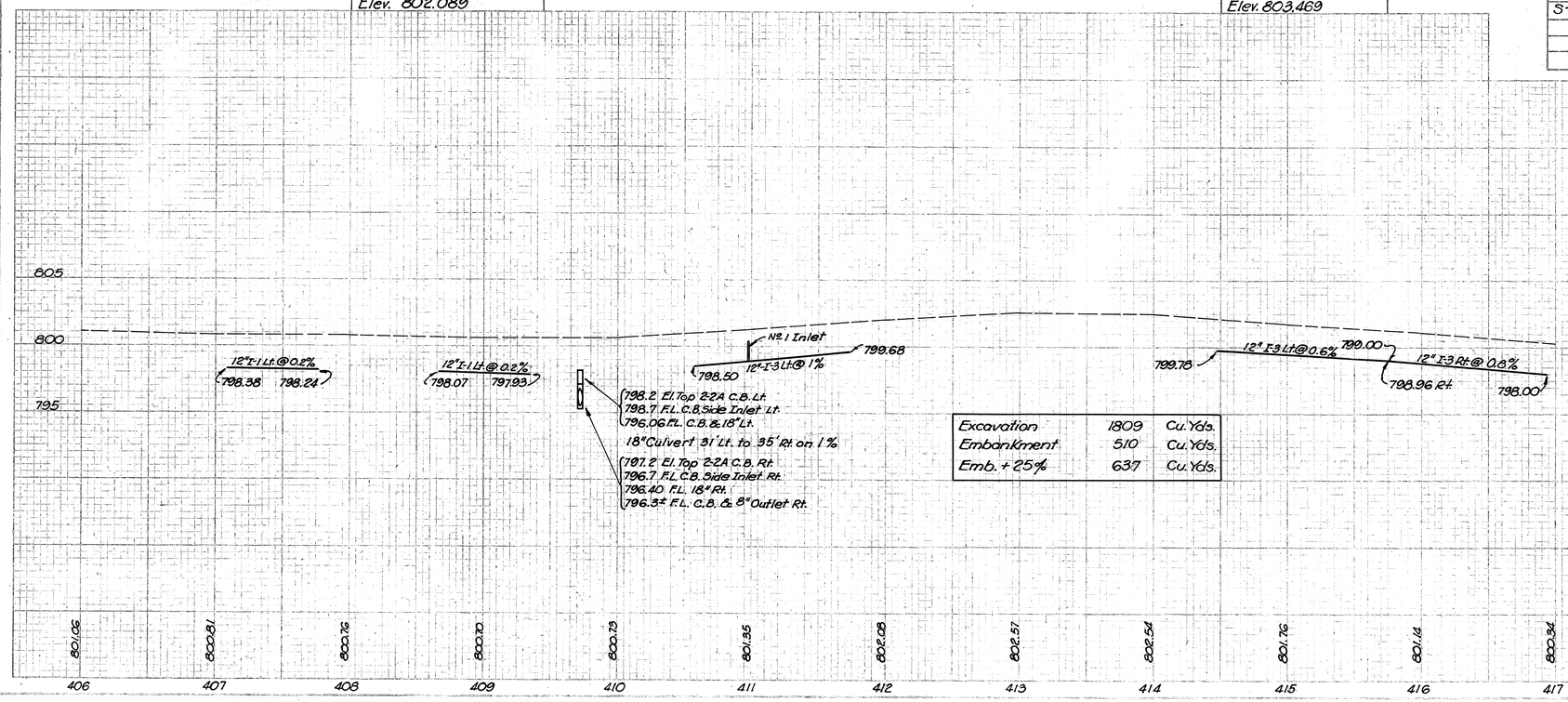


Ref. No	Station			I-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushed Aggregate Base Course Cu. Yds 5"	6"	7"	I-1 Pipe for Drives Lin. Ft. 12"				
A-1	407+12	Lt.	L-22	6.9			24.2	68				
A-2	409+32	Lt.	L-22	6.9			24.2	68				
A-3	410+75	Lt.	L-20	4.0	10.0							
A-4	412+61	Lt.	L-20	4.0	10.0							
A-5	414+86	Lt.	L-22	4.1	10.4							
A-6	406+82	Rt.	L-20	4.0	10.0							
A-7	416+74	Rt.	L-20	4.0	10.0							
	Totals			33.9	50.4		48.4	136				

Ref. No	Station	I-3 Roadway Drainage Std. 12" Lin. Ft.	Under Pav't. 12" Lin. Ft.	S-27 Rdwy. Culv. M-6.6(b) or M-6.8(b) 18" Lin. Ft.	S-24 Struc. Remov. Lump	I-8 Std. 2-2-A Catch Basin Units	S-1 Conc. for Struc. Cu. Yds.	E-2 Excav. for Struc. Cu. Yds.	Base Replace-ment Sq. Yds.	I-8 No. 1 Inlet Units	
D-1	410+56 - 411+74 Lt.	82	34							1	
D-2	414+46 - 415+76 Lt.	102	28								
D-3	415+74 - 416+94 Rt.	92	28								
S-9	409+72			66	1	2		27	13.0		
	Totals	276	90	66	1	2		27	13.0	1	

B.M. "X" S.W. Cor. conc. pump island, 67' Lt. Sta. 408+81.3
Elev. 802.089

B.M. Spike in root 21" Ash
45.4' Lt. Sta. 414+98
Elev. 803.469



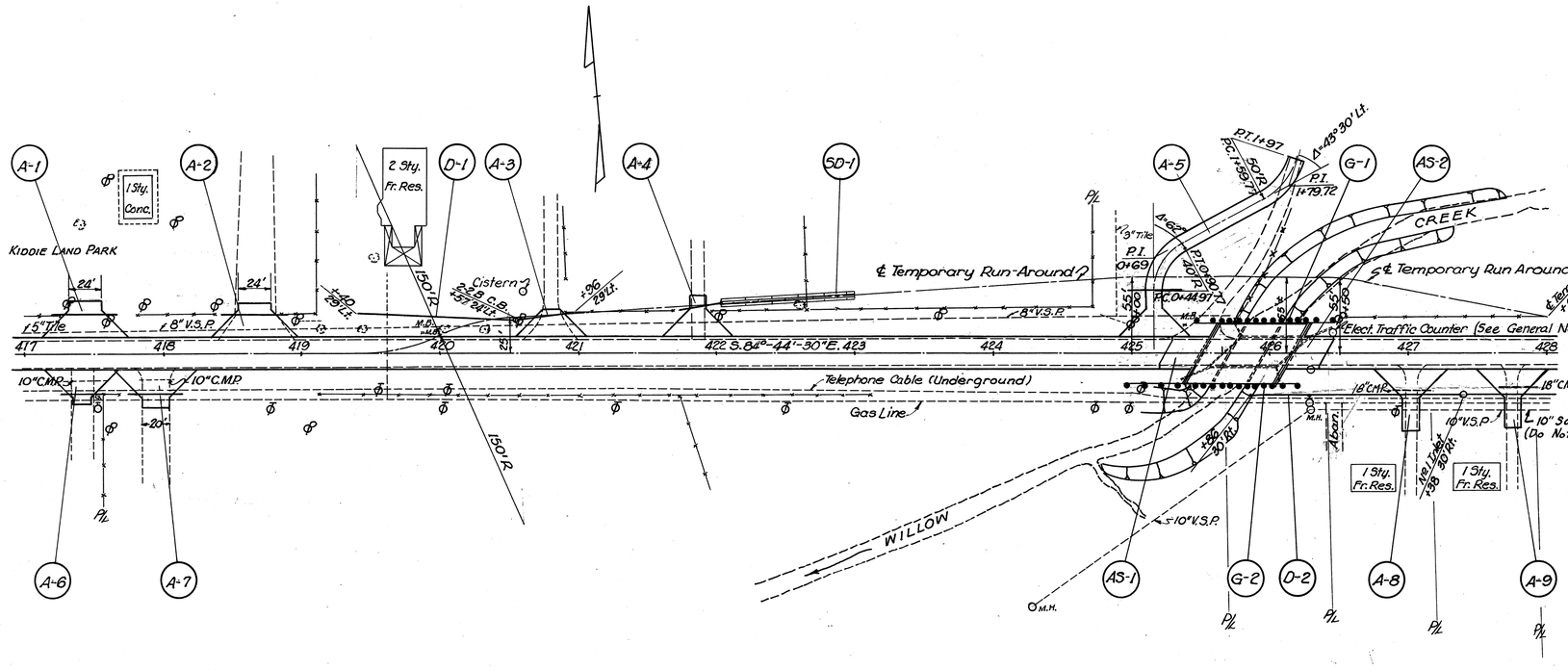
Excavation	1809	Cu. Yds.
Embankment	510	Cu. Yds.
Emb. + 25%	637	Cu. Yds.

Sta. 406+00 - 417+00

FED. RD. DIVISION	STATE	PROJECT	
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LOR-82-(4.79-12.47)



Ref. Nº	Station		T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushed Aggregate Base Course Cu. Yds. 5"	B-119 Crushed Aggregate Base Course Cu. Yds. 6"	B-119 Crushed Aggregate Base Course Cu. Yds. 7"	I-1 Pipe for Drives Lin. Ft. 12"	I-1 Pipe for Drives Lin. Ft. 15"	E-12 Pipe Remov. 15" & Over Lin. Ft.	L-10 Sod Sq. Yds.	
A-1	417+43 Lt.	L=27'	6.5			22.8	48				
A-2	418+66 Lt.	L=25'	6.1			21.7	48				
A-3	420+79 Lt.	L=20'	4.0	10.0			30				
A-4	421+88 Lt.	L=30'			13.7		30				
A-5	425+16 Lt.	L=185'	16.2	42.4				40			
A-6	417+42 Rt.	L=25'			12.6		32				
A-7	417+95 Rt.	L=27'			17.0		38				
A-8	427+02 Rt.	L=47'	6.0	15.4					30		
A-9	427+76 Rt.	L=44'	5.7	14.8					30		
SD-1	422+03-423+03 Lt.									67	
	Totals		44.5	82.6	43.3	44.5	196	40	60	67	

Ref. Nº	Station	I-3 Roadway Std. Lin. Ft. 12"	I-3 Roadway Under Pav't. Lin. Ft. 12"	I-3 Drainage Std. Lin. Ft. 18"	I-3 Drainage Outlet Lin. Ft. 18"	I-8 Std. 2-2-8 Catch Basin Units	I-8 Nº 1 Inlet Units	I-7 Appr. Slabs Sq. Yds. T=13"	I-22 Sub-base Cu. Yds. 6"±	I-15 Guard Rail Stl. Beam (Deep) Lin. Ft.
D-1	419+40-420+96 Lt.	116	38			1				
D-2	425+86-428+00 Rt.			202	10		1			
AS-1	425+25.63-425+50.63							66.7	11.6	
AS-2	426+17.37-426+42.37							66.7	11.6	
G-1	425+46.85-426+46.85 Lt.									33.26
G-2	424+96.15-426+21.15 Rt.									58.26
	Totals	116	38	202	10	1	1	133.4	23.2	91.52

B.M. Spike in 24"Elm
94.4' Lt. Sta. 417+42.5
Elev. 801.539

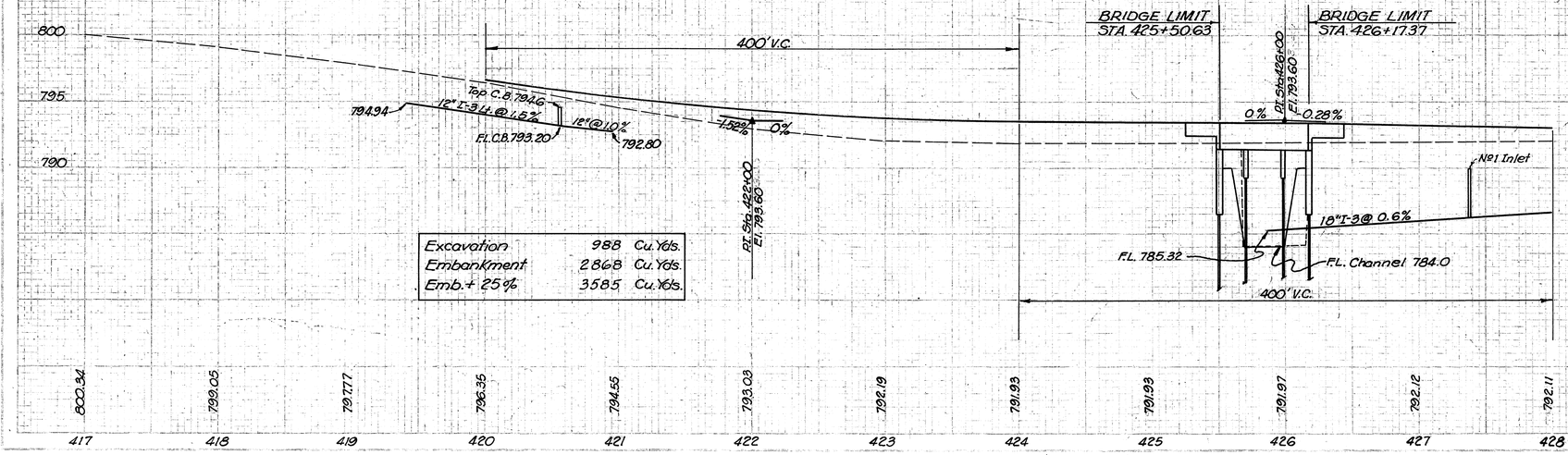
B.M. "X" on stone slab well cover
42.5' Lt. Sta. 420+61
Elev. 797.714

B.M. "X" N.W. Wingwall top Metal piling, 22' Lt. Sta. 425+75.5
Elev. 791.529

796.64 796.27 795.93 795.61 795.31 795.04 794.79 794.56 794.36 794.18 794.03 793.90 793.79 793.71 793.65 793.61 793.60 793.60 793.59 793.58 793.56 793.54 793.52 793.49 793.46 793.42 793.38 793.33 793.28 793.23 793.17 793.11 793.04

EXISTING BRIDGE DATA
TYPE: Steel Beam
CLEAR SPAN: 2@ 21'-0"
WIDTH (Clear): 24'-0"
SKEW: 45° L.F.
LOADING: H-15
CONDITION: Fair

PROPOSED STRUCTURE
TYPE: Continuous Reinforced Concrete Slab with Capped Pile Substructure
SPANS: 20'-25'-20' % Brgs.
ROADWAY: 44'-0" ℄ Guardrails
LOAD FREQUENCY: C.F. = 2000 (51)
SKEW: 30° L.F.
WEARING SURFACE: 1" Monolithic Concrete
APPROACH SLABS: AS-1-54 (25' Long)
ALIGNMENT: Tangent
STRUCTURE NO.: LOR-82-0806



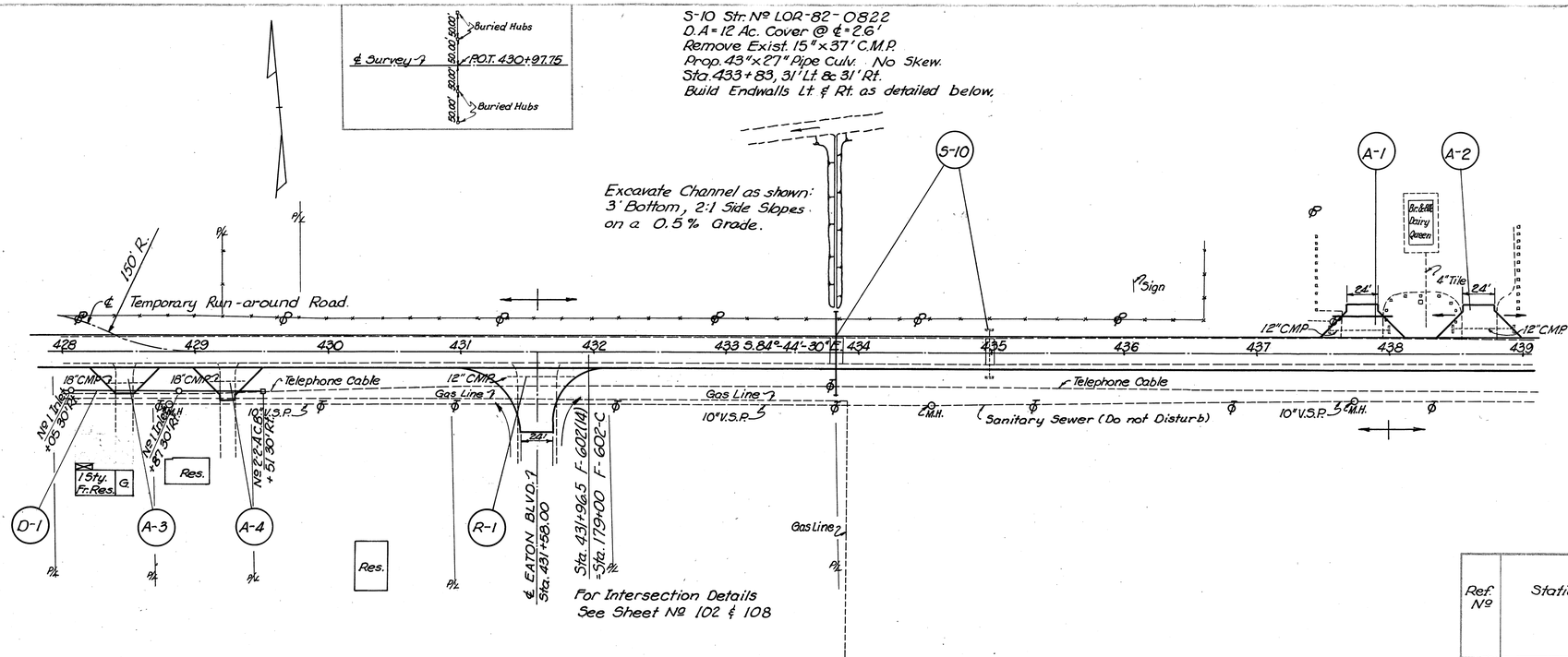
Excavation	988	Cu. Yds.
Embankment	2868	Cu. Yds.
Emb.+ 25%	3585	Cu. Yds.

Sta. 417+00-428+00

FED. AID DIVISION	STATE	PROJECT		
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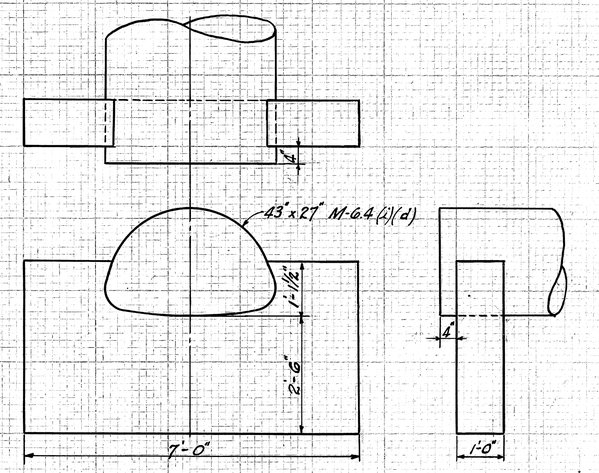
LOR-82-(4.79-12.47)



Ref. Nº	Station			T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushd. Aggr. Base Course Cu. Yds. 5"	B-119 Crushd. Aggr. Base Course Cu. Yds. 7"	I-1 Pipe for Drives Lin. Ft.	E-12 Pipe Removl. 15" & Under Lin. Ft.	E-12 Pipe Removl. Over 15" Lin. Ft.	I-3 Rd'wy. Drainage Std. 18" Lin. Ft.	I-8 Nº 1 Inlet Units	I-8 Nº 2-2-A Catch Basin Units
A-1	437+80	Lt.	L=25'	6.2		21.7	44	46				
A-2	438+68	Lt.	L=25'	6.2		21.7		48				
A-3	428+48	Rt.	L=20'	4.0	10.0				30			
A-4	429+25	Rt.	L=24'	4.2	10.8				27			
D-1	428+00-429+51	Rt.								146	2	1
R-1	431+34-431+83	Rt.						49				
	Totals			20.6	20.8	43.4	44	143	57	146	2	1

Ref. Nº	Station	S-27 Rd'wy. Culv. M-6.4 (i)(d) Lin. Ft. 43"x27"	S-1 Conc. for Struc. Cu. Yds.	E-2 Excav. for Struc. Cu. Yds.	E-3 Chann. Excav. Cu. Yds.	S-24 Struc. Remov. Lump	Base Replacement Sq. Yds.
S-10	433+83	62	1.6	58	110	1	33
	Totals	62	1.6	58	110	1	33

Excavation	1778	Cu. Yds.
Embankment	808	Cu. Yds.
Emb. + 25%	1010	Cu. Yds.



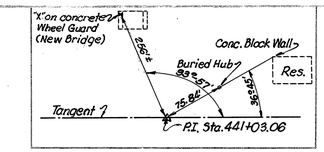
HEADWALL DETAILS FOR STRUCTURES AT
STA. 433+83
AND
STA. 453+80

Sta. 428+00 - 439+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

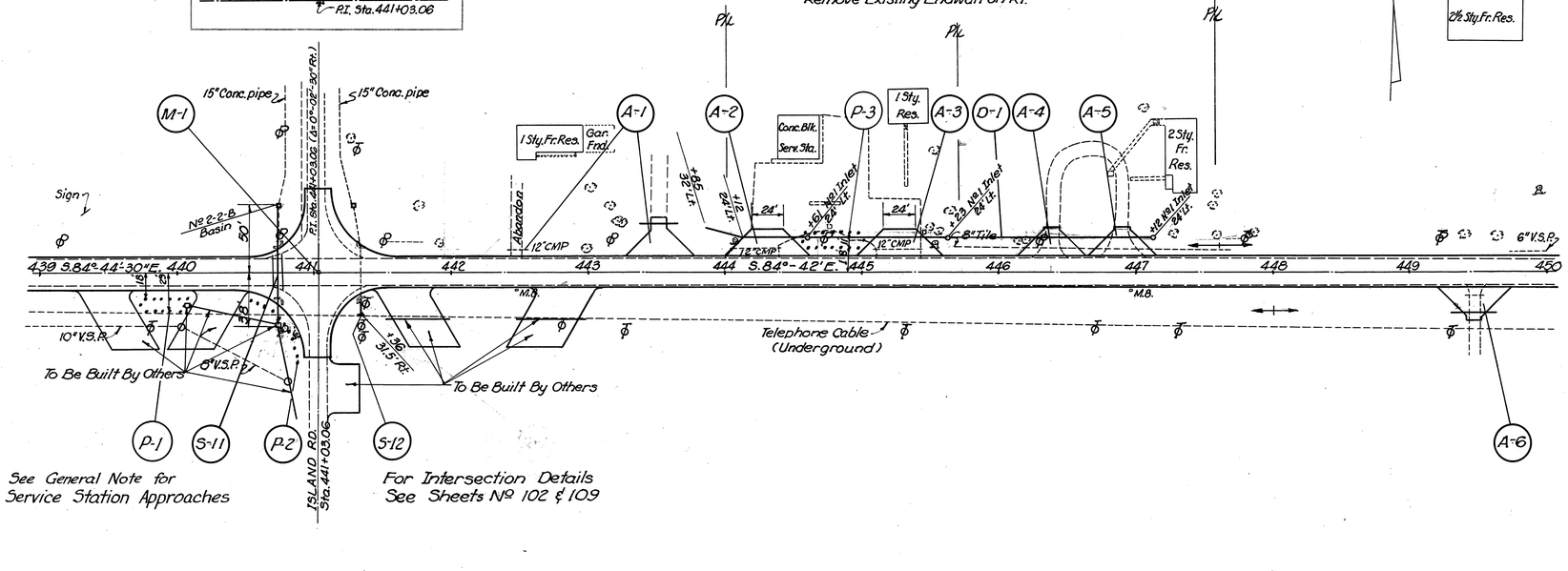
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LOR-82-(4.79-12.47)



S-11 LOR-82-0835
Sta. 440+74
D.A. 6 Ac.
Exist. 12" C.M.P. (Remove)
Prop. 21" x 86'
Cover @ ℄ = 3.5'

S-12 LOR-82-0836
Sta. 441+36
D.A. = 8 Ac.
Exist. 12" C.M.P.
Prop. Extend 12" C.M.P. 14' Rt.
Use Metal Collar & 1 Endwall.
Remove Existing Endwall on Rt.



See General Note for Service Station Approaches

For Intersection Details See Sheets Nº 102 & 109

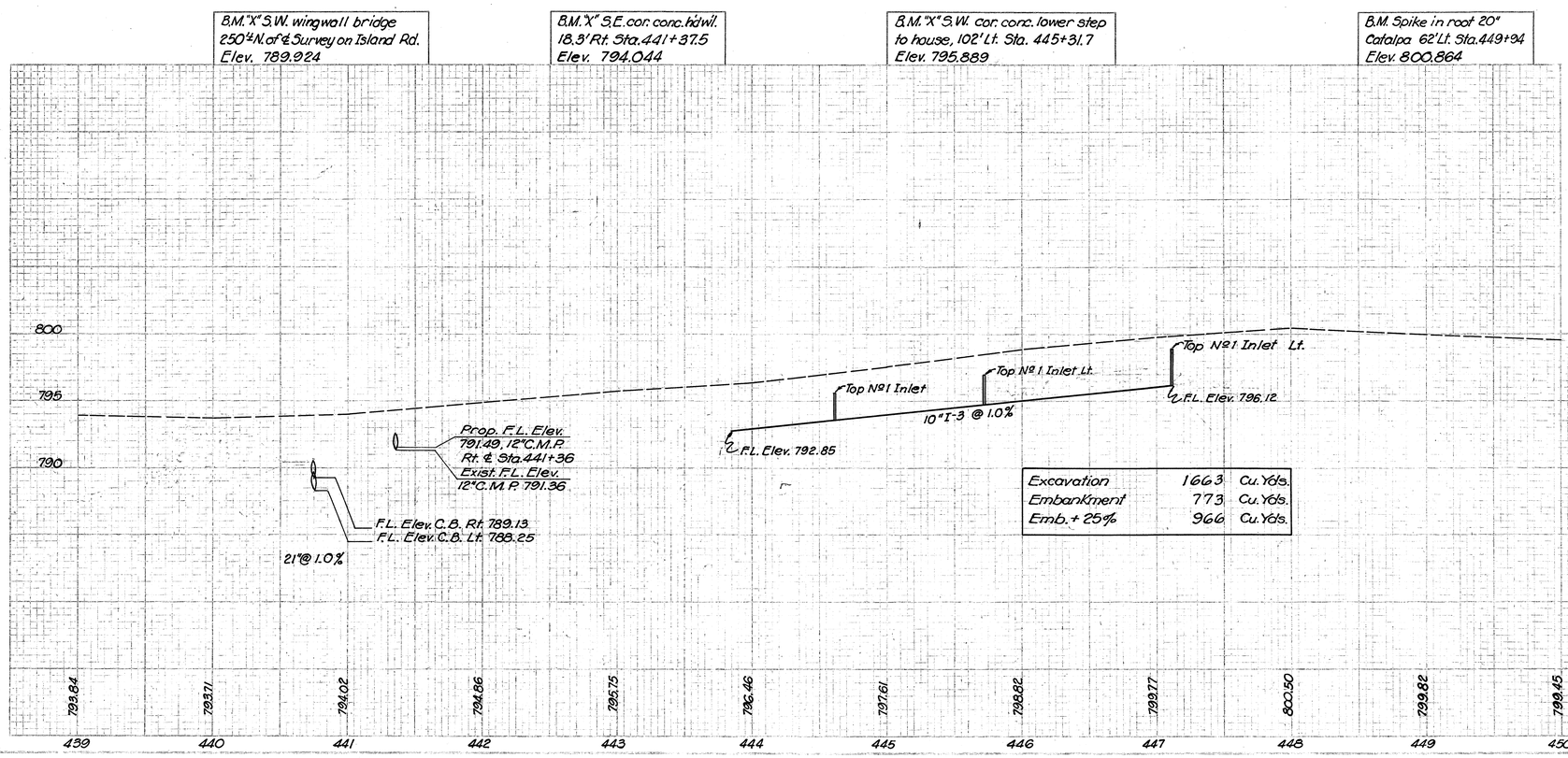
Ref. Nº	Station	T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushed Aggregate Base Course Cu. Yds. 5"	6"	7"	I-1 Pipe for Drives Lin. Ft. 12"	E-12 Pipe Remov. 15" & Under Lin. Ft.	I-3 Roadway Drainage Std. Lin. Ft. 10"	Under Pav't. Lin. Ft. 10"	I-8 Nº 1 Inlet Units	Manu. Adjust. To Grade Units
A-1	443+50 Lt. L=29'	4.6	11.8			28	16				
A-2	444+30 Lt. L=20'	5.6			20.2		36				
A-3	445+27 Lt. L=20'	5.6			20.2		36				
A-4	446+38 Lt. L=21'	4.0	10.0								
A-5	446+90 Lt. L=21'	4.0	10.0								
A-6	449+47 Rt. L=23'			12.1		34					
D-1	443+85 - 447+12 Lt.							158	164	3	
M-1	441+03.06										1
	Totals	23.8	31.8	12.1	40.4	62	88	158	164	3	1

B.M. "X" S.W. wingwall bridge 250' ± N. of ℄ Survey on Island Rd. Elev. 789.924

B.M. "X" S.E. cor. conc. hdwl. 18.3' Rt. Sta. 441+37.5 Elev. 794.044

B.M. "X" S.W. cor. conc. lower step to house, 102' Lt. Sta. 445+31.7 Elev. 795.889

B.M. Spike in root 20" Catalpa 62' Lt. Sta. 449+94 Elev. 800.864



Ref. Nº	Station	I-15 Guard Rail Posts Only Units	S-22 Remov. Portion Existing Struc. Cu. Yds.	S-27 Roadway Culvert M-6.4(d) Lin. Ft. 12"	S-1 Concrete for Struc. Cu. Yds.	E-2 Excav. for Struc. Cu. Yds.	I-8 Nº 2-2-B Catch Basin Units	S-24 Struc. Remov. Lump	S-27 Rd'wy. Culv. M-6.8(b) M-6.8(c) Lin. Ft. 21"	Base Replacement Sq. Yds.
P-1	439+75 - 440+09	13								
P-2	440+54 - 440+89	11								
P-3	444+56 - 445+03	16								
S-11	440+74					40	1	1	86	17.2
S-12	441+36		1.7	* 14	0.23	3				
	Totals	40	1.7	* 14	0.23	43	1	1	86	17.2

* Extend existing culvert pipe using metal band. (Payment included in S-27)

Excavation	1663	Cu. Yds.
Embankment	773	Cu. Yds.
Emb. + 25%	966	Cu. Yds.

Sta. 439+00 - 450+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

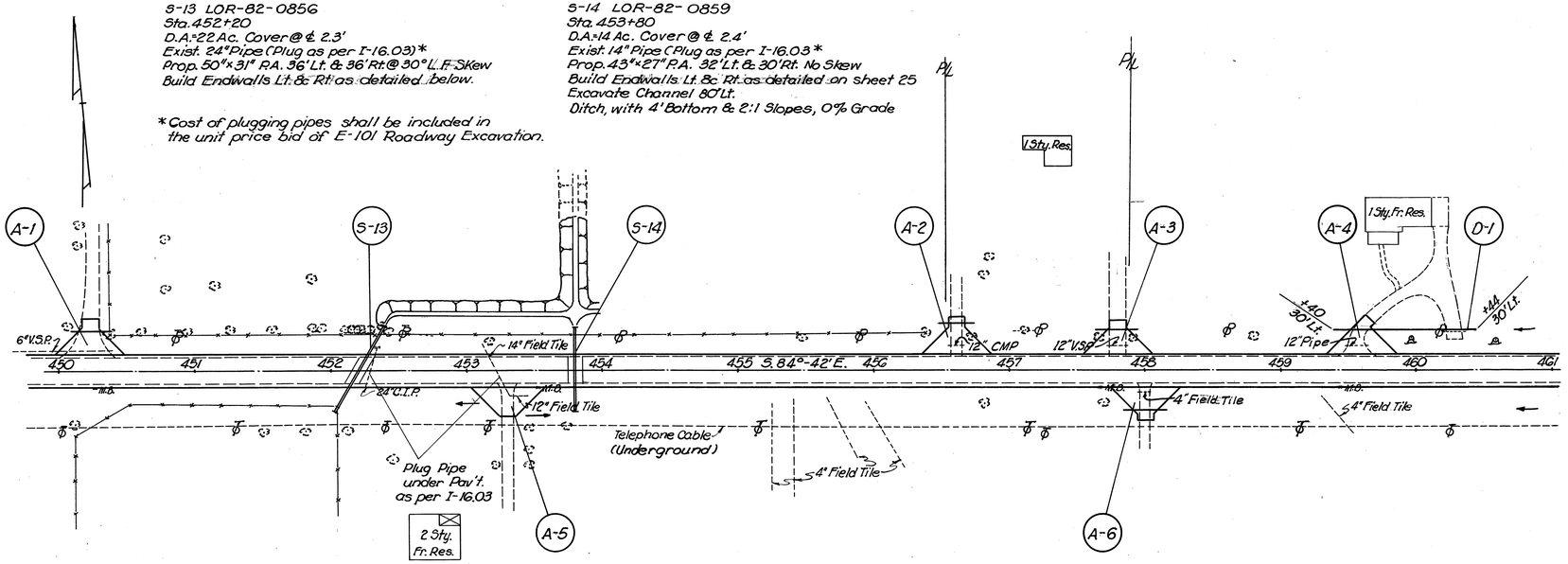
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LOR-82-(4.79-12.47)

S-13 LOR-82-0856
Sta. 452+20
D.A.=22 Ac. Cover @ ℄ 2.3'
Exist. 24" Pipe (Plug as per I-16.03)*
Prop. 50"×31" P.A. 36' Lt. & 36' Rt. @ 30° L.F. Skew
Build Endwalls Lt. & Rt. as detailed below.

S-14 LOR-82-0859
Sta. 453+80
D.A.=14 Ac. Cover @ ℄ 2.4'
Exist. 14" Pipe (Plug as per I-16.03)*
Prop. 43"×27" P.A. 32' Lt. & 30' Rt. No Skew
Build Endwalls Lt. & Rt. as detailed on sheet 25
Excavate Channel 80' Lt.
Ditch, with 4' Bottom & 2:1 Slopes, 0% Grade

*Cost of plugging pipes shall be included in the unit price bid of E-101 Roadway Excavation.



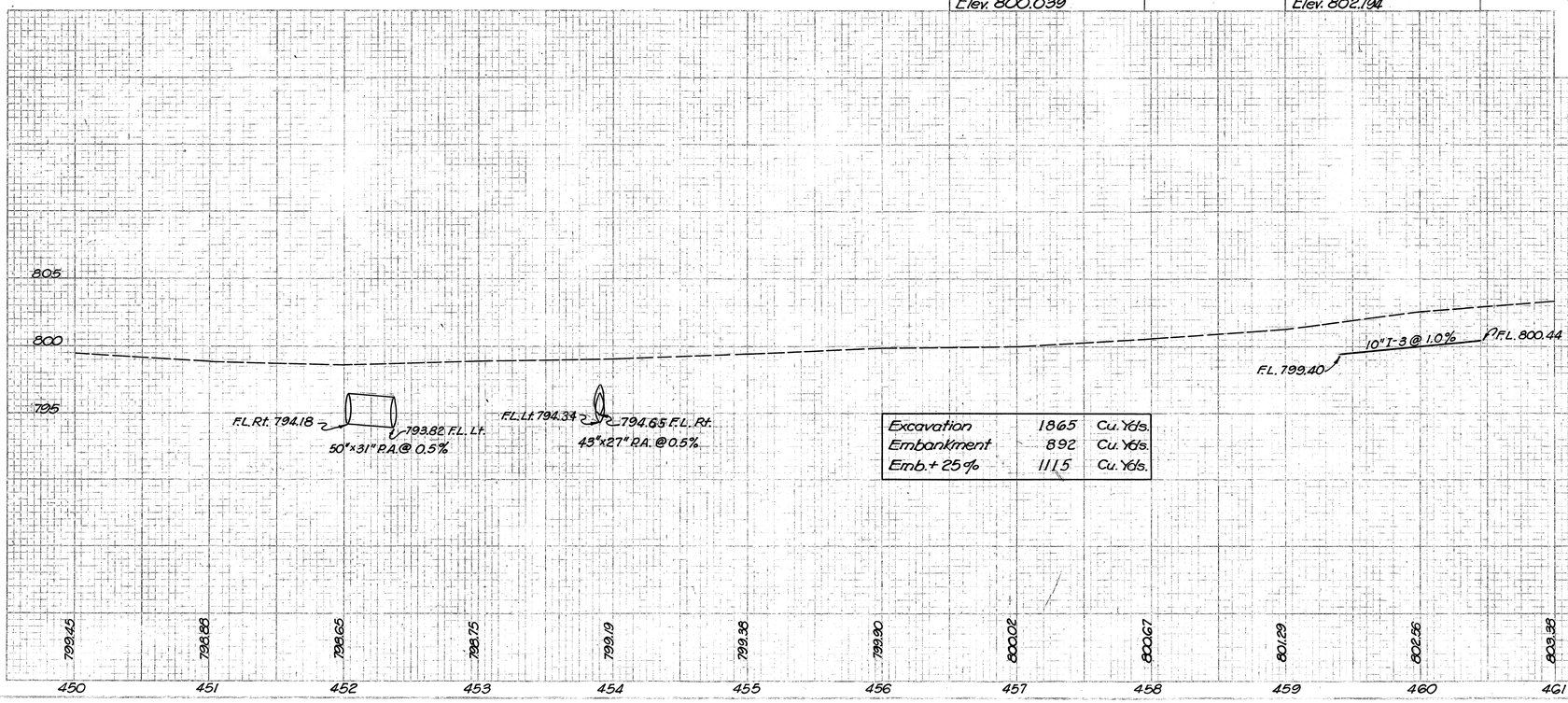
Ref. Nº	Station	T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushed Aggr. Base Course Cu. Yds. 5"	B-119 Crushed Aggr. Base Course Cu. Yds. 6"	E-12 Pipe Remov. 15" & Under Lin. Ft.	I-1 Pipe for Drives Lin. Ft. 12"	I-3 Roadway Drainage Std. Lin. Ft. 10"	I-3 Roadway Drainage Under Pav't. Lin. Ft. 10"
A-1	450+22 Lt. L=26'	4.4	11.2			34		
A-2	456+61 Lt. L=28'			13.2	14	28		
A-3	457+79 Lt. L=25'	4.3	11.0		16	32		
A-4	459+60 Lt. L=28'	4.5	11.6		16			
A-5	453+26 Rt. L=20'	4.0	10.0		o 34			
A-6	458+00 Rt. L=24'			12.3		32		
D-1	459+40-460+44 Lt.						64	40
	Totals	17.2	43.8	25.5	80	126	64	40

o This includes all 12" & 14" Field Tile that is not under the existing S.R. 82.

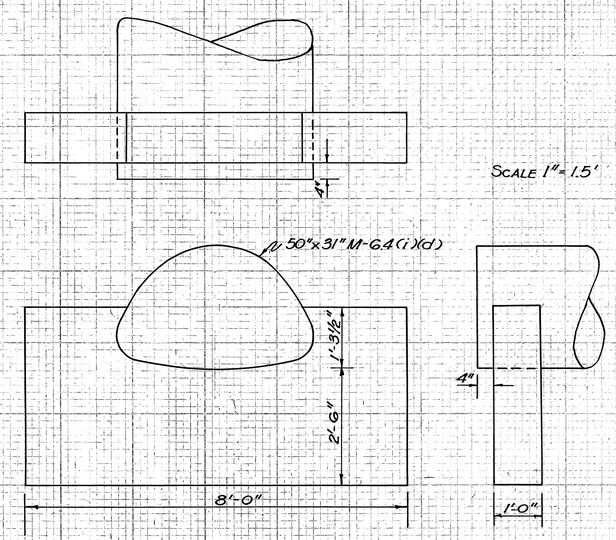
Ref. Nº	Station	S-27 Roadway Culverts Pipe Arch M-6.4 (i)(d) Lin. Ft. 50"×31"	S-27 Roadway Culverts Pipe Arch M-6.4 (i)(d) Lin. Ft. 43"×27"	E-2 Excav. for Struc. Cu. Yds.	E-3 Chann. Excav. Cu. Yds.	S-1 Conc. for Struc. Cu. Yds.	Base Replacement Sq. Yds.		S-22 Remove Portion Existing Struc. Cu. Yds.
S-13	452+20	72		70	5	1.9	25.6		1.4
S-14	453+80		62	55	50	1.6	20.0		
	Totals	72	62	125	55	3.5	45.6		1.4

B.M. spike N.W. side 28" Elm 26' Rt. Sta. 456+82 Elev. 800.039

B.M. "X" S.W. cor. conc. slab 92' Lt. Sta. 459+64 Elev. 802.194



Excavation	1865	Cu. Yds.
Embankment	892	Cu. Yds.
Emb. + 25%	1115	Cu. Yds.



HEADWALL DETAILS FOR STRUCTURE AT STA. 452+20

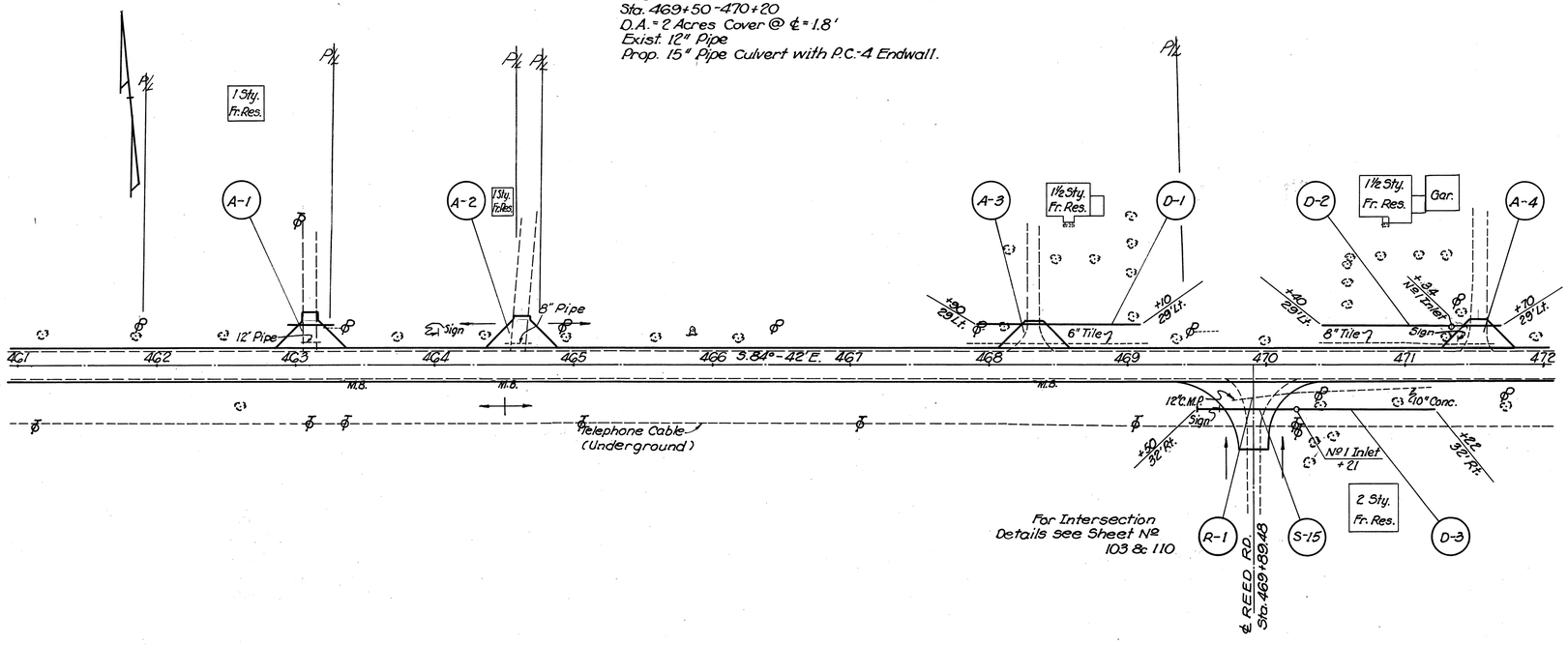
Sta. 450+00-461+00

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S-15
Sta. 469+50 - 470+20
D.A. = 2 Acres Cover @ ℄ = 1.8'
Exist. 12" Pipe
Prop. 15" Pipe Culvert with P.C.-4 Endwall.



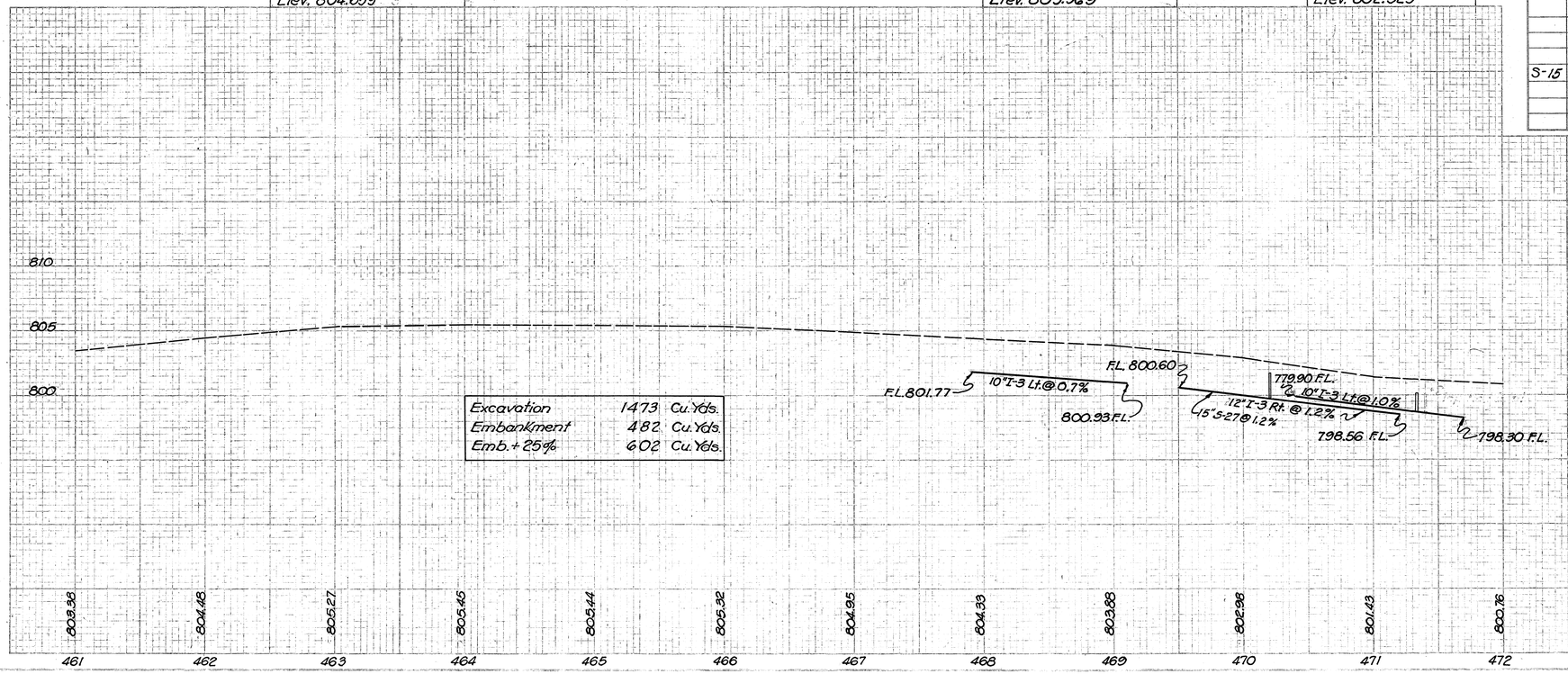
Ref. №	Station		T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushd. Aggr. Base Course Cu. Yds. 5"	I-3 Roadway Drainage Std. Lin. Ft. 10"	I-3 Roadway Drainage Under Pav't. Lin. Ft. 10"	I-3 Roadway Drainage Std. Lin. Ft. 12"		I-8 № 1 Inlet Units	I-1 Pipe for Drives Lin. Ft. 12"	E-12 Pipe Remov. 15" & Under Lin. Ft.	
A-1	463+10 Lt.	L=26'	4.4	11.2						34	14	
A-2	464+63 Lt.	L=23'	4.2	10.6								
A-3	468+32 Lt.	L=20'	4.0	10.0								
A-4	471+53 Lt.	L=20'	4.0	10.0								
D-1	467+90 - 469+10 Lt.				92	28						
D-2	470+40 - 471+10 Lt.				104	24			1			
D-3	470+20 - 471+22 Rt.						100		1			
R-1	469+75 - 470+25 Rt.										50	
	Totals		16.6	41.8	196	52	100		2	34	64	

Ref. №	Station		S-27 Rd'wy. Culv. M-6.4(d) Lin. Ft. 15"	S-1 Conc. for Struc. Cu. Yds.	E-2 Excav. for Struc. Cu. Yds.					
S-15	469+50 - 470+20 Rt.		70	0.26	16					
	Totals		70	0.26	16					

B.M. Spike N. side service pole
100' Lt. Sta. 463+00
Elev. 804.659

B.M. "X" S.E. cor. lower step to house, 97' Lt. Sta. 468+60.5
Elev. 805.969

B.M. Spike in service pole
456' Lt. Sta. 471+38
Elev. 802.329



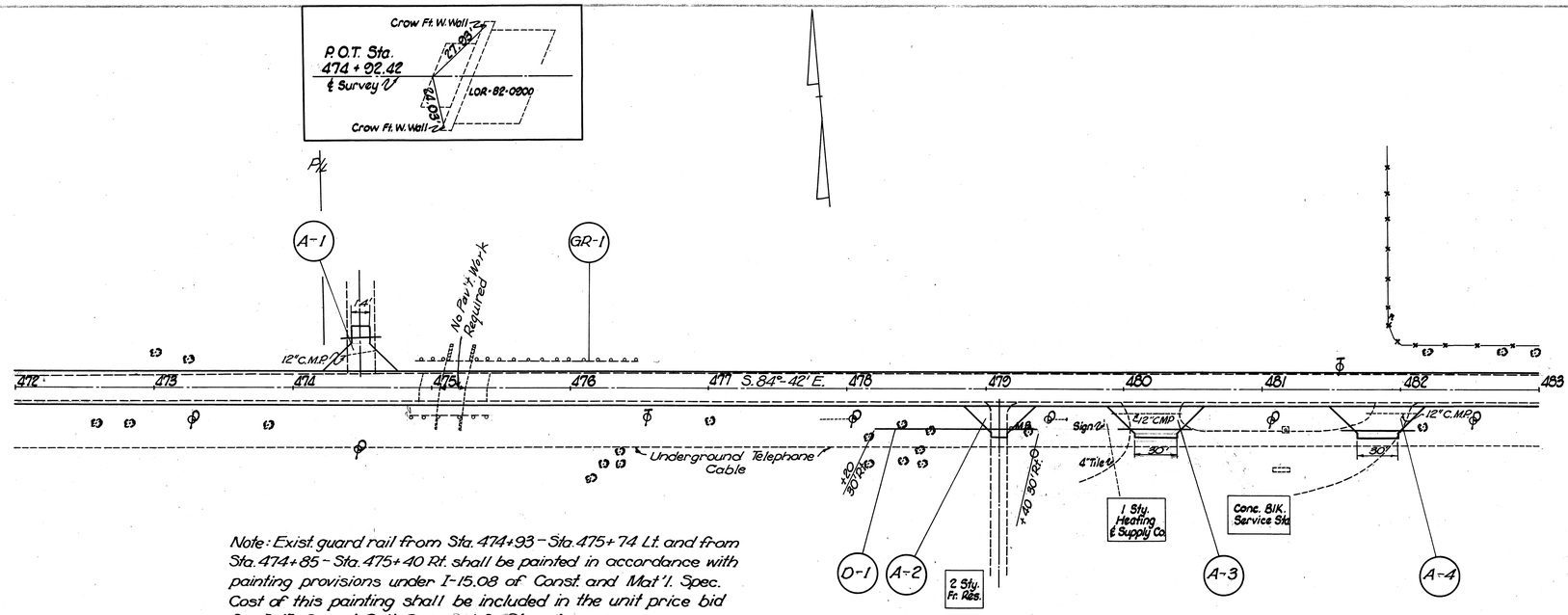
Excavation	1473	Cu. Yds.
Embankment	482	Cu. Yds.
Emb. + 25%	602	Cu. Yds.

Sta. 461+00 - 472+00

FED. RD. DIVISION	STATE	PROJECT	
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Note: Exist guard rail from Sta. 474+93 - Sta. 475+74 Lt. and from Sta. 474+85 - Sta. 475+40 Rt. shall be painted in accordance with painting provisions under I-15.08 of Const. and Mat'l. Spec. Cost of this painting shall be included in the unit price bid for I-15 Guard Rail, Removed & Stored.

Ref. Nº	Station	T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushed Aggregate Base Course Cu. Yds. 5"	6"	7"	I-1 Pipe for Drives Lin. Ft. 12"	E-12 Pipe Remov. 15" & Under Lin. Ft.
A-1	474+49 Lt. L=33'			15.5		30	26
A-2	479+11 Rt. L=23'	4.2	10.6				
A-3	480+23 Rt. L=23'	6.7			23.5	54	50
A-4	481+83 Rt. L=23'	6.7			23.5	54	36
	Totals	17.6	10.6	15.5	47.0	138	112

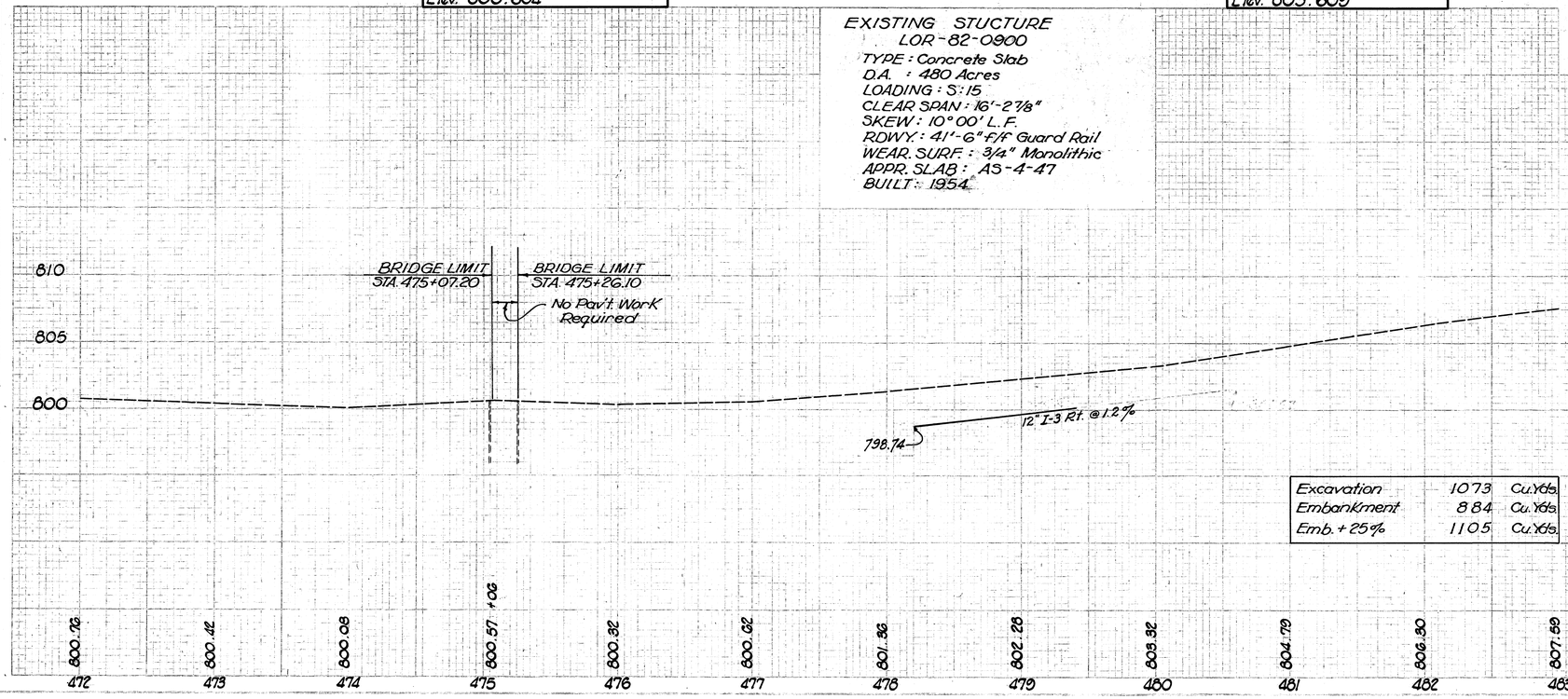
Ref. Nº	Station	I-3 Roadway Drainage Std. Lin. Ft. 12"	Under Pav't. Lin. Ft. 12"	I-15 Guard Rail Remov.& Stored Lin. Ft.
D-1	478+20 - 480+60 Rt.	100	20	
GR-1	475+74 - 476+49 Lt.			* 75
	Totals	100	20	* 75

* Connect the standard Terminal @ Sta. 475+74 Lt.

B. M. "X" on S.W. Wing Wall W. Bridge
Abut. 24' Rt. Sta. 475+02.7
Elev. 800.604

B. M. "X" N.W. Cor. Pump Island
57' Rt. Sta. 481+07.5
Elev. 805.609

EXISTING STUCTURE
LOR-82-0800
TYPE: Concrete Slab
D.A. : 480 Acres
LOADING: S:15
CLEAR SPAN: 16'-2 7/8"
SKEW: 10° 00' L.F.
RDWY: 41'-6" f/f Guard Rail
WEAR. SURF.: 3/4" Monolithic
APPR. SLAB: AS-4-47
BUILT: 1954



Excavation	1073	Cu. Yds.
Embankment	884	Cu. Yds.
Emb. + 25%	1105	Cu. Yds.

Sta. 472 + 00 - Sta. 483 + 00

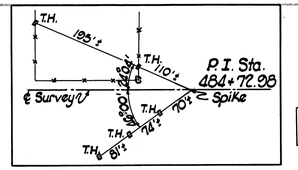
FED. RD. DIVISION	STATE	PROJECT	
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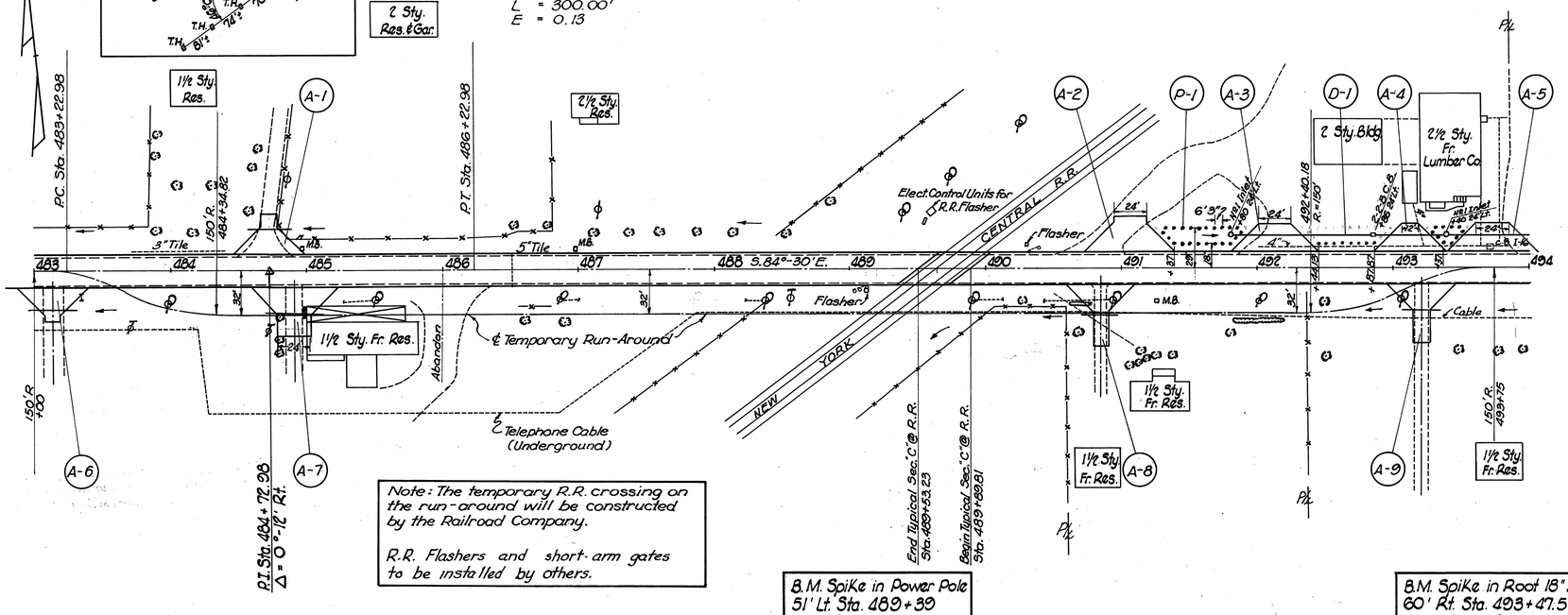
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LOR - 82 - (4.79 - 12.47)

CURVE DATA

P.I. = Sta. 484 + 72.98
Δ = 0° 12' Rt.
D = 0° 04'
T = 150.00'
L = 300.00'
E = 0.13





Note: The temporary R.R. crossing on the run-around will be constructed by the Railroad Company.

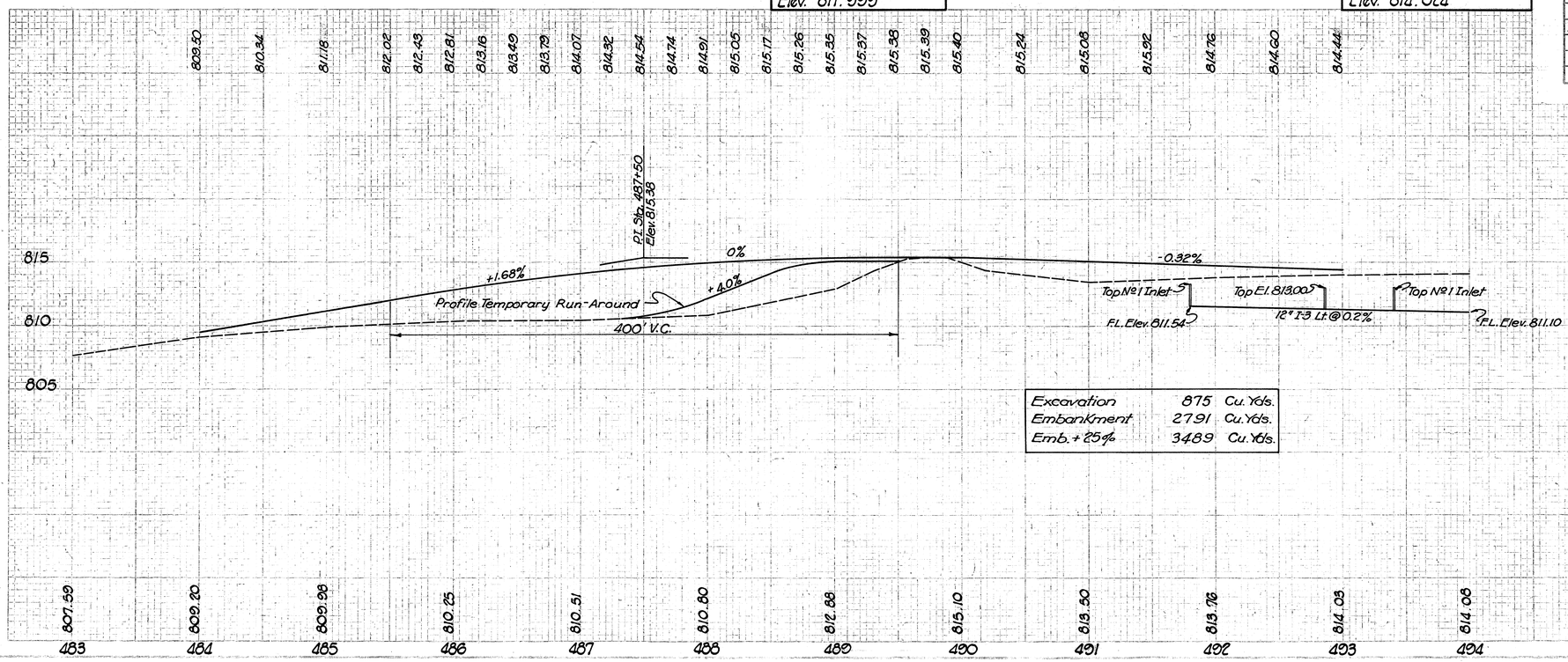
R.R. Flashers and short-arm gates to be installed by others.

B.M. Spike in Power Pole
51' Lt. Sta. 489+39
Elev. 811.999

B.M. Spike in Root 18" Pine
60' Rt. Sta. 493+47.5
Elev. 814.024

Ref. Nº	Station			T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushed Aggregate Base Course Cu. Yds. 5"	6"	7"	I-1 Pipe for Drives Lin. Ft. 12"				
A-1	484+73	Lt.	L=28'	4.5			16.2	32				
A-2	491+06	Lt.	L=25'	6.2			21.7					
A-3	492+13	Lt.	L=20'	5.4			19.0					
A-4	493+13	Lt.	L=20'	4.0			13.9					
A-5	493+74	Lt.	L=20'	5.4			19.0					
A-6	483+13	Rt.	L=25'			12.5		36				
A-7	484+91	Rt.	L=36'	7.8	19.7			44				
A-8	490+86	Rt.	L=45'	5.8	15.0			28				
A-9	493+22	Rt.	L=43'	5.7	14.6			30				
	Totals			44.8	49.3	12.5	89.8	170				

Ref. Nº	Station			I-3 Roadway Drainage Std. Lin. Ft. 12"	Under Pav't. Lin. Ft. 12"	I-8 Nº 1 Inlet Units	I-15 Wood G. Rail Posts With Rail Units	I-8 Std. 2-2-B Catch Basin Units	I-16 Catch Basin Abandon Units	
D-1	491+80 - 494+00	Lt.		26	190	2		1	1	
P-1	491+24.50 - 493+55.75	Lt.					40			
	Totals			26	190	2	40	1	1	

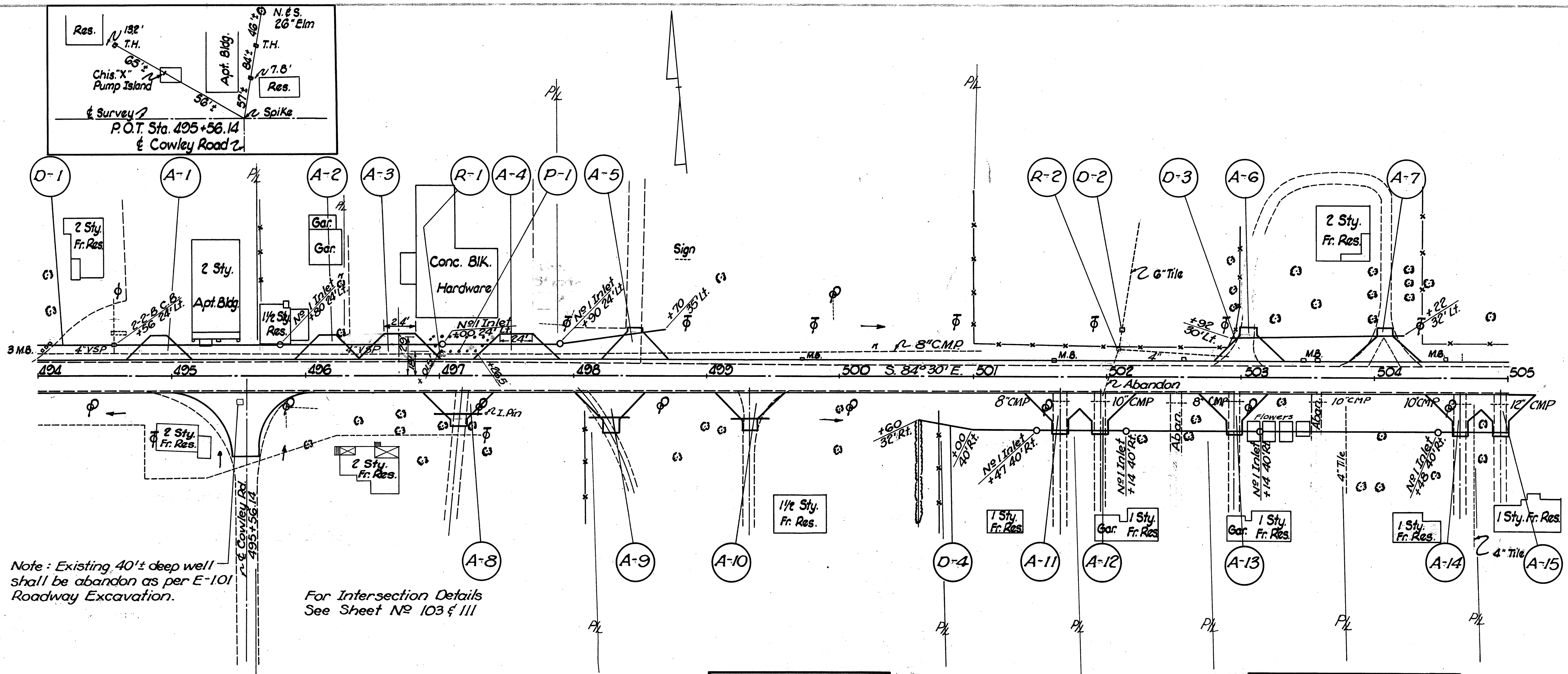


Excavation	875	Cu. Yds.
Embankment	2791	Cu. Yds.
Emb. + 25%	3489	Cu. Yds.

Sta. 483+00 - Sta. 494+00

FED. RD. DIVISION	STATE	PROJECT	
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Note: Existing 40'± deep well shall be abandon as per E-101 Roadway Excavation.

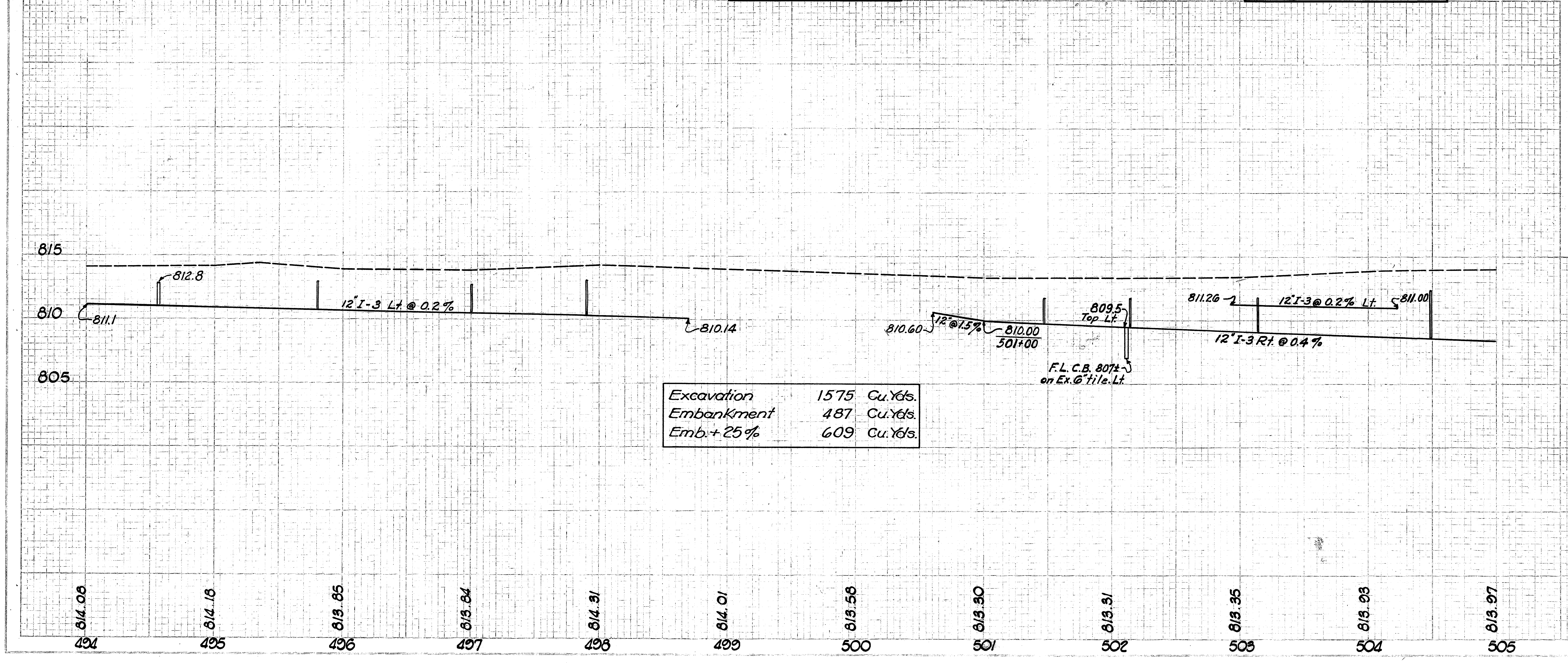
For Intersection Details See Sheet No 103 & 111

B.M. Spike in 28" Ash
73.5' Lt. Sta. 499+61.5
Elev. 812.359

B.M. Spike in Telephone Pole
39.8' Lt. Sta. 503+35
Elev. 815.214

Ref. No	Station	T-35 Asph. Conc. Surface Course Cu.Yds.	B-119 Crushed Aggregate Base Course Cu. Yds.		I-1 Pipe for Drives Lin.Ft.	E-12 Pipe Remov. 15" & Under Lin.Ft.	I-15 Wood G. Rail Posts With-out Rail Units		
		2"	5"	7"	12"				
A-1	494+91 Lt. L=20'	4.0	10.0						
A-2	496+16 Lt. L=20'	4.0		14.4					
A-3	496+70 Lt. L=20'	5.4		19.0					
A-4	497+58 Lt. L=20'	5.4		19.0					
A-5	498+46 Lt. L=24'	4.2		14.5					
A-6	503+06 Lt. L=25'	4.3	11.0						
A-7	504+08 Lt. L=25'	4.3	11.0						
A-8	497+14 Rt. L=25'	4.3	11.0		30				
A-9	498+27 Rt. L=31'	4.8	12.2		30				
A-10	499+33 Rt. L=28'	4.6	11.5		28				
A-11	501+65 Rt. L=31'	3.8	9.7						
A-12	501+96 Rt. L=31'	3.8	9.7						
A-13	502+96 Rt. L=31'	4.8	12.2						
A-14	504+66 Rt. L=31'	3.8	9.6						
A-15	504+96 Rt. L=31'	3.8	9.6			14			
P-1	496+93.1-497+34.9						16		
	Totals	65.3	117.5	66.9	88	14	16		

Ref. No	Station	I-3 Roadway Drainage Std. Lin.Ft.	Under Pav't. Lin.Ft.	I-8 No 1 Inlet Units	Std. 2-2-B Catch Basin Units	I-16 Catch Basin Aban-don Units		
		12"	12"					
D-1	494+00-498+70 Lt.	284	178	3	1			
D-2	502+10± Lt.				1			
D-3	502+92-504+22 Lt.	74	56					
D-4	500+60-505+00 Rt.	332	100	4				
R-1	497+02 Lt.					1		
R-2	502+10± Lt.					1		
	Totals	690	334	7	2	2		



Excavation	1575	Cu.Yds.
Embankment	487	Cu.Yds.
Emb. + 25%	609	Cu.Yds.

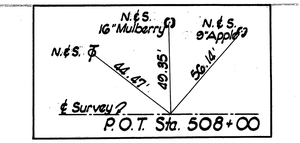
Sta. 494+00 - Sta. 505+00

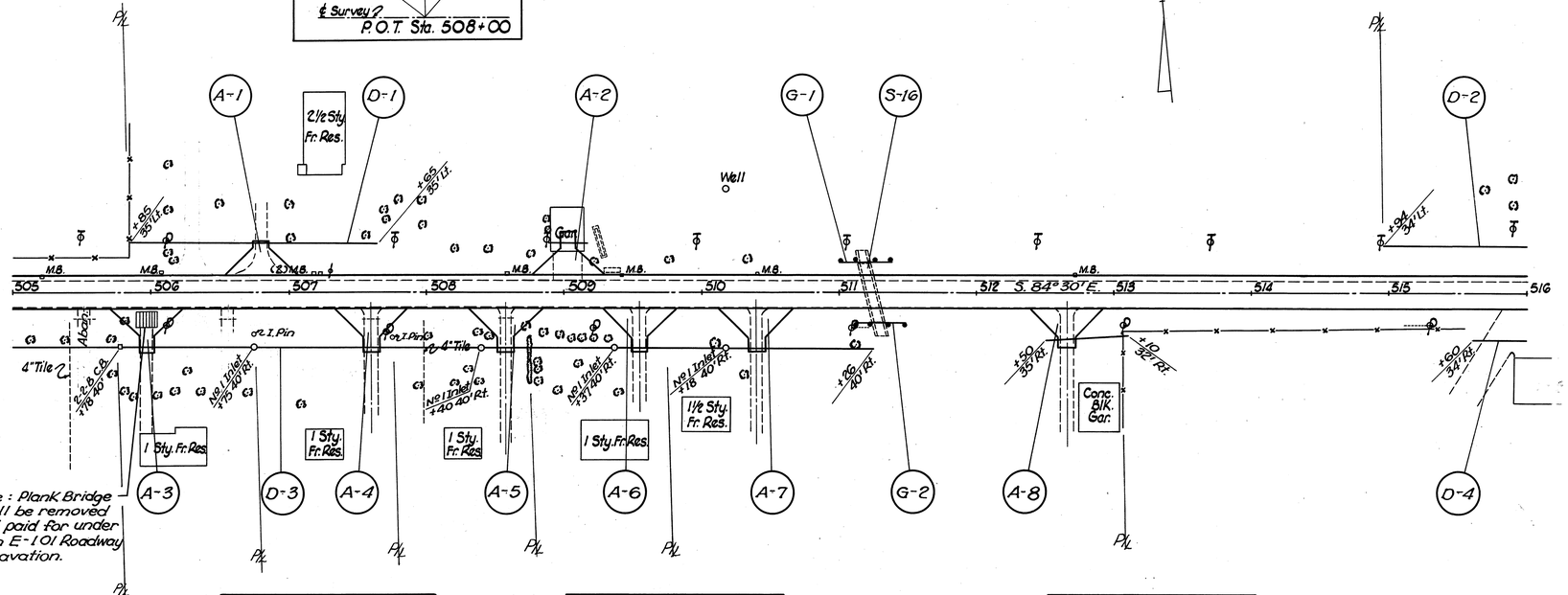
FED. RD. DIVISION	STATE	PROJECT		
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LOR.-82-(4.79-12.47)

S-16 Str. No LOR-82-0968
Sta. 511+25 D.A.= 250 Ac.
Exist. 6'x4.5' Slab
Prop.- No Work Required





Note : Plank Bridge shall be removed and paid for under Item E-101 Roadway Excavation.

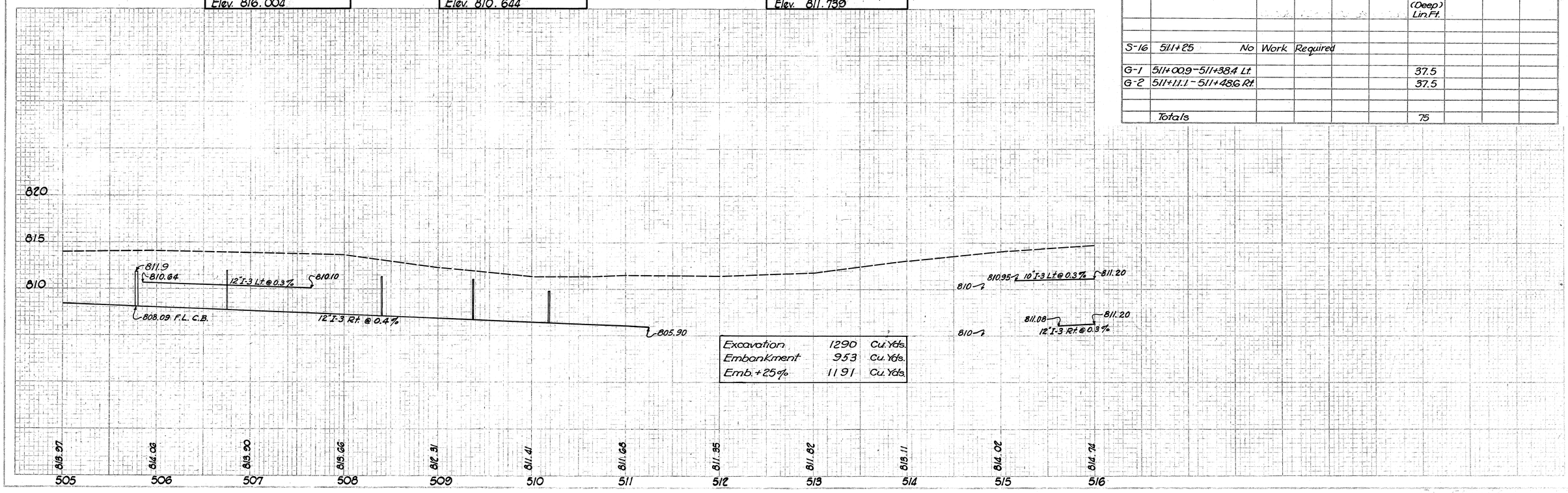
B.M. "X" S.W. cor. conc. step
85' Lt. Sta. 507+10
Elev. 816.004

B.M. Spike N. side 30" Elm
30' Lt. Sta. 509+76
Elev. 810.644

B.M. Spike in power pole
25.5' Rt. Sta. 513+08
Elev. 811.739

Ref. No	Station	T-35 Asph. Conc. Surface Course Cu.Yds. 2"	B-1/19 Crushd. Aggr. Base Course Cu.Yds. 5"	I-1 Pipe for Drives Lin.Ft. 12"	I-3 Roadway Drainage Std. Lin.Ft. 12"	I-3 Roadway Drainage Under Pavt. Lin.Ft. 12"	I-3 Roadway Drainage Std. Lin.Ft. 10"	I-8 No 1 Inlet Units	I-8 Std. 2-2-8 Catch Basin Units
A-1	506+81 Lt. L=25'	4.3	11.0						
A-2	509+04 Lt. L=31'	4.8	12.2	28					
A-3	505+97 Rt. L=32'	4.8	12.4						
A-4	507+61 Rt. L=32'	4.8	12.4						
A-5	508+59 Rt. L=32'	4.8	12.4						
A-6	509+55 Rt. L=32'	4.8	12.4						
A-7	510+40 Rt. L=32'	4.8	12.4						
A-8	512+67 Rt. L=28'	4.6	11.5		40	20			
D-1	505+85-507+65 Lt.				160	20			
D-2	515+94-516+00 Lt.						106		
D-3	505+00-511+26 Rt.				616			4	1
D-4	515+60-516+00 Rt.				40				
	Totals	37.7	96.7	28	856	40	106	4	1

Ref. No	Station	I-15 Guard Rail Stl. Beam (Deep) Lin.Ft.
S-16	511+25 No Work Required	
G-1	511+00.9-511+38.4 Lt.	37.5
G-2	511+11.1-511+48.6 Rt.	37.5
	Totals	75



Excavation	1290	Cu. Yds.
Embankment	953	Cu. Yds.
Emb. +25%	1191	Cu. Yds.

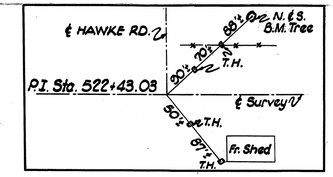
Sta. 505+00 - Sta. 516+00

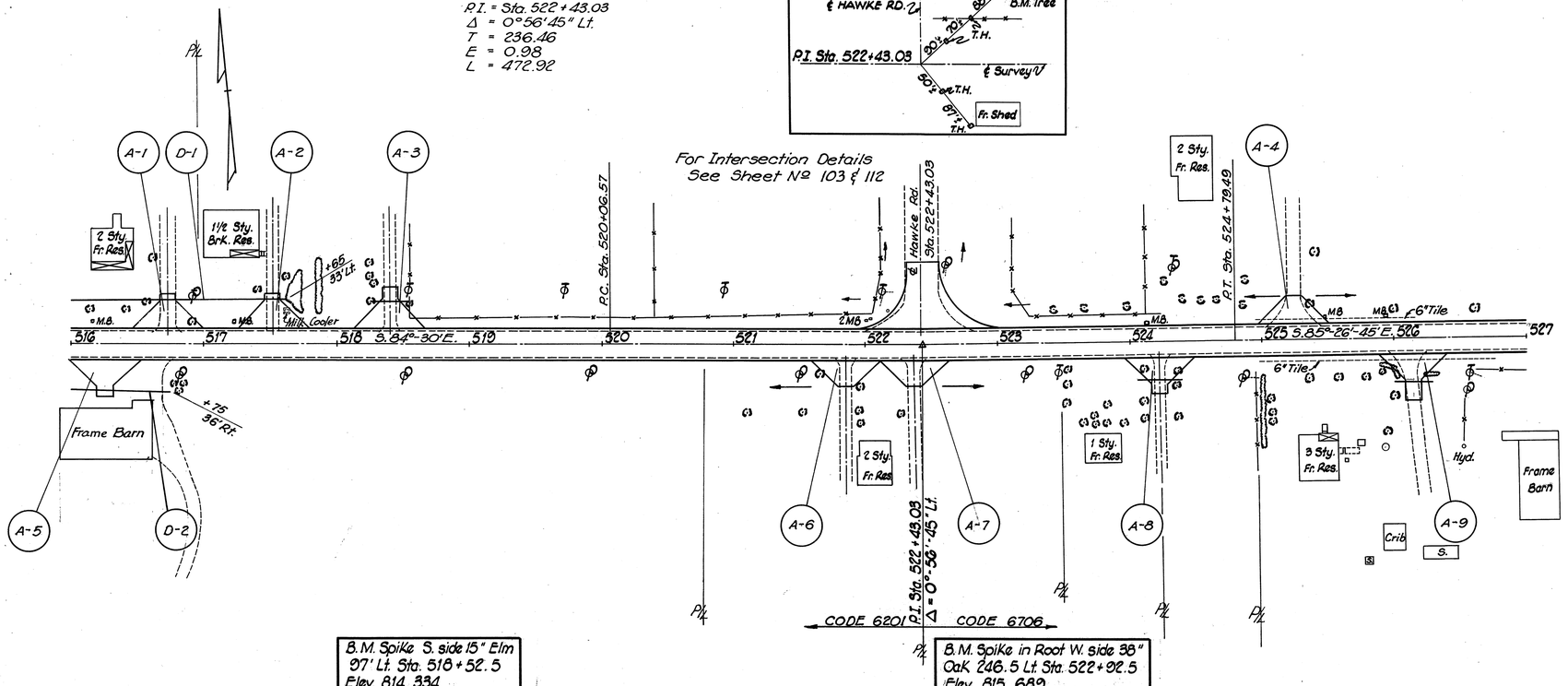
FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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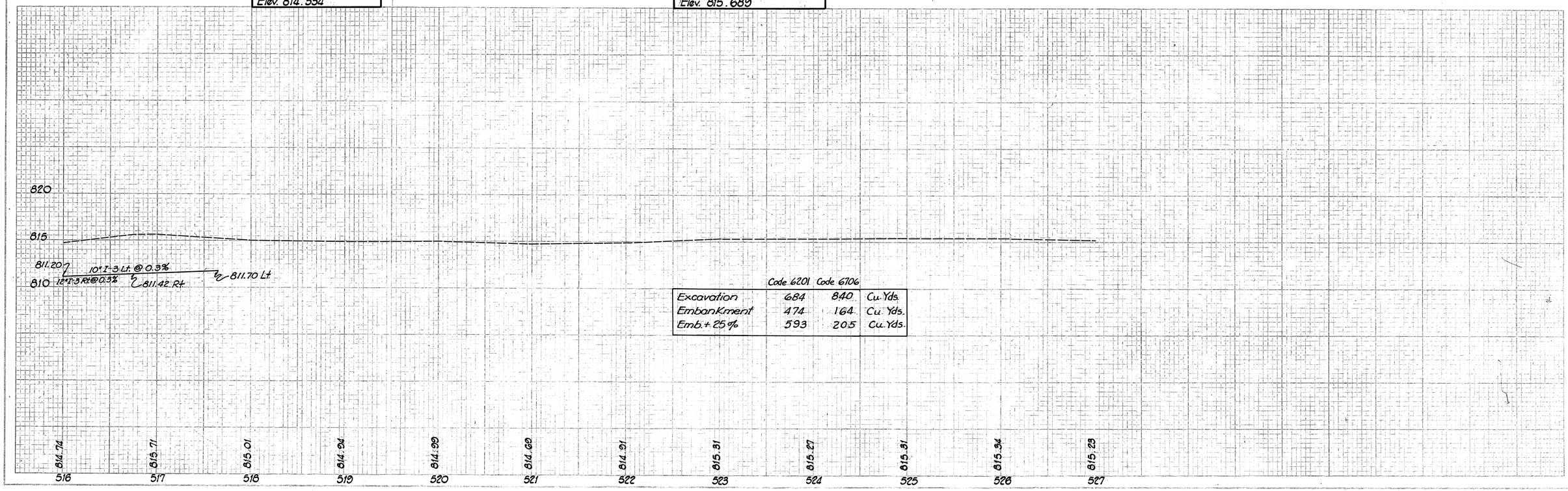
CURVE DATA
P.I. = Sta. 522+43.03
Δ = 0°56'45" Lt.
T = 236.46
E = 0.98
L = 472.92





B.M. Spike S. side 15" Elm 27' Lt. Sta. 518+52.5 Elev. 814.334

B.M. Spike in Root W. side 38" Oak 246.5 Lt. Sta. 522+92.5 Elev. 815.689



Ref. Nº	Station			T-35 Asph. Conc. Surface Course Cu.Yds. 2"	B-119 Crushed Aggregate Base Course Cu.Yds. 5"	B-119 Crushed Aggregate Base Course Cu.Yds. 6"	I-1 Pipe for Drives Lin.Ft. 12"	I-3 Roadway Drainage Std. Lin.Ft. 10"	I-3 Roadway Drainage Under Pav't. Lin.Ft. 10"	I-3 Roadway Drainage Std. Lin.Ft. 12"	I-3 Roadway Drainage Under Pav't. Lin.Ft. 12"
A-1	516+73	Lt.	L=25'	4.3	11.0						
A-2	517+53	Lt.	L=25'	4.3	11.0						
A-3	518+40	Lt.	L=31'			14.3	32				
A-4	525+24	Lt.	L=20'	4.0	10.0						
A-5	516+26	Rt.	L=28'			13.6					
A-6	521+87	Rt.	L=20'	4.0	10.0						
A-7	522+36	Rt.	L=20'	4.0	10.0						
A-8	524+24	Rt.	L=27'	11.4			34				
A-9	526+14	Rt.	L=35'	5.1	13.0		28				
D-1	516+00 - 517+65	Lt.						126	40		
D-2	516+00 - 516+75	Rt.								56	20
	Totals			30.2	76.4	27.9	94	126	40	56	20

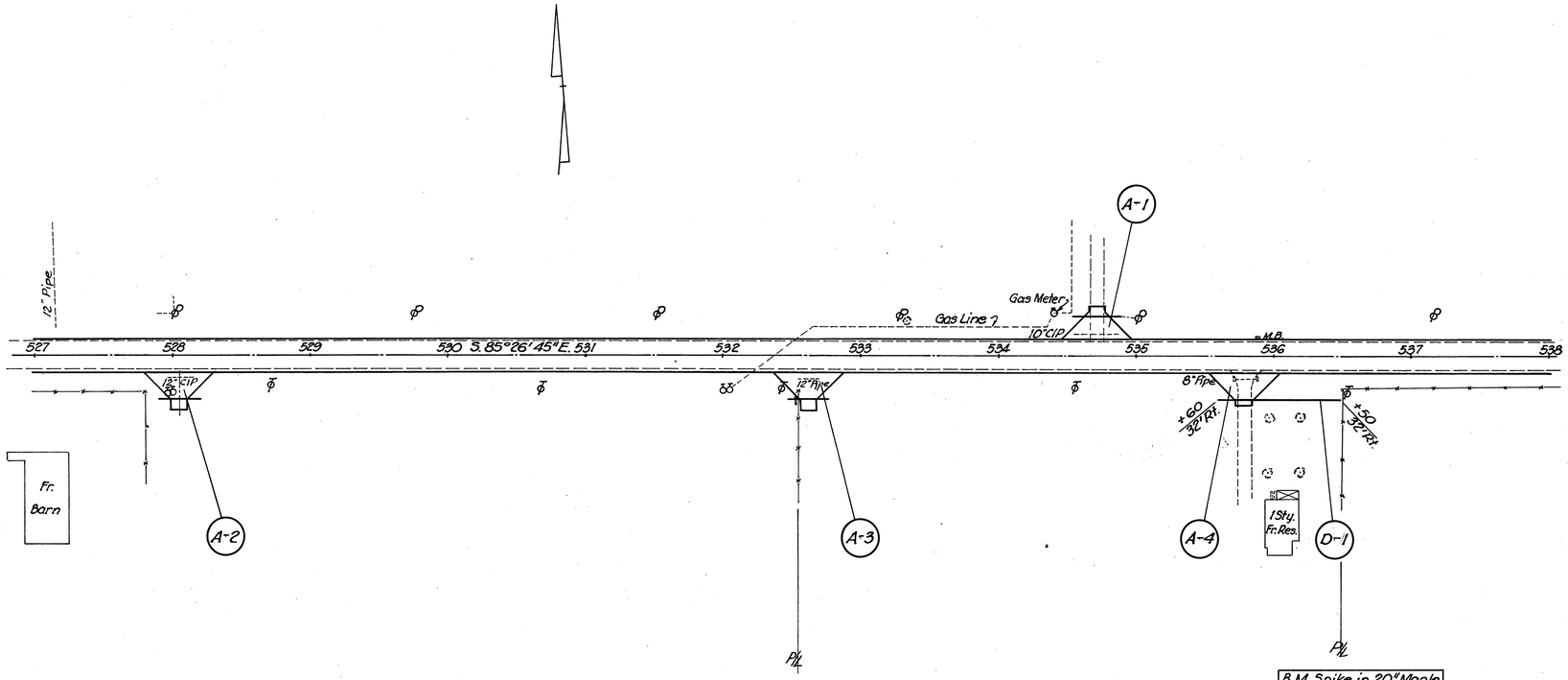
	Code 6201	Code 6706	
Excavation	684	840	Cu. Yds.
Embankment	474	164	Cu. Yds.
Emb. + 25%	593	205	Cu. Yds.

Sta. 516+00 - Sta. 527+00

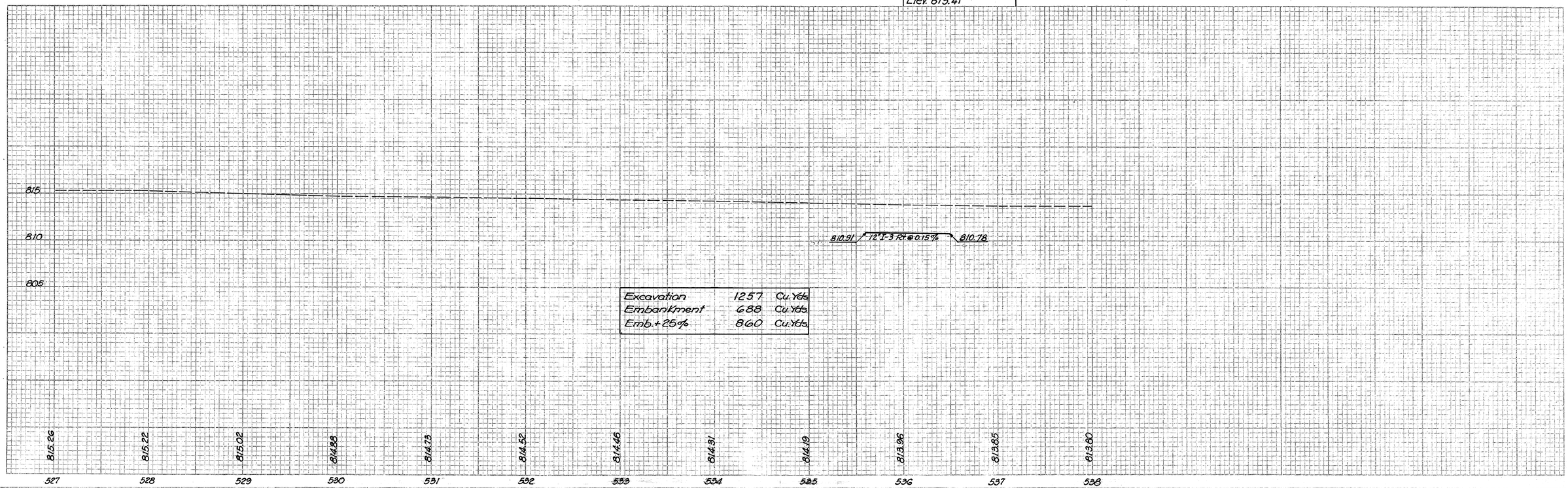
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

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LOR-82-(4.79-12.47)



Ref. No	Station	T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushed Aggregate Base Course Cu. Yds. 5"	B-119 Crushed Aggregate Base Course Cu. Yds. 6"	I-1 Pipe for Drives Lin. Ft. 12"	E-12 Pipe Remov. 15" & Under Lin. Ft.	I-3 Roadway Drainage Std. Lin. Ft. 12"	I-3 Roadway Drainage Under Pav't. Lin. Ft. 12"
A-1	534+70 Lt. L=24'			12.3	36			
A-2	528+06 Rt. L=28'			13.2	30	20		
A-3	532+63 Rt. L=28'			13.2	30	16		
A-4	535+80 Rt. L=24'	4.2	10.8					
D-1	535+60-536+50 Rt.						70	20
	Totals	4.2	10.8	38.7	96	36	70	20



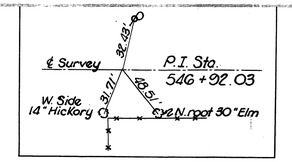
Excavation	1257	Cu. Yds.
Embankment	688	Cu. Yds.
Emb. + 25%	860	Cu. Yds.

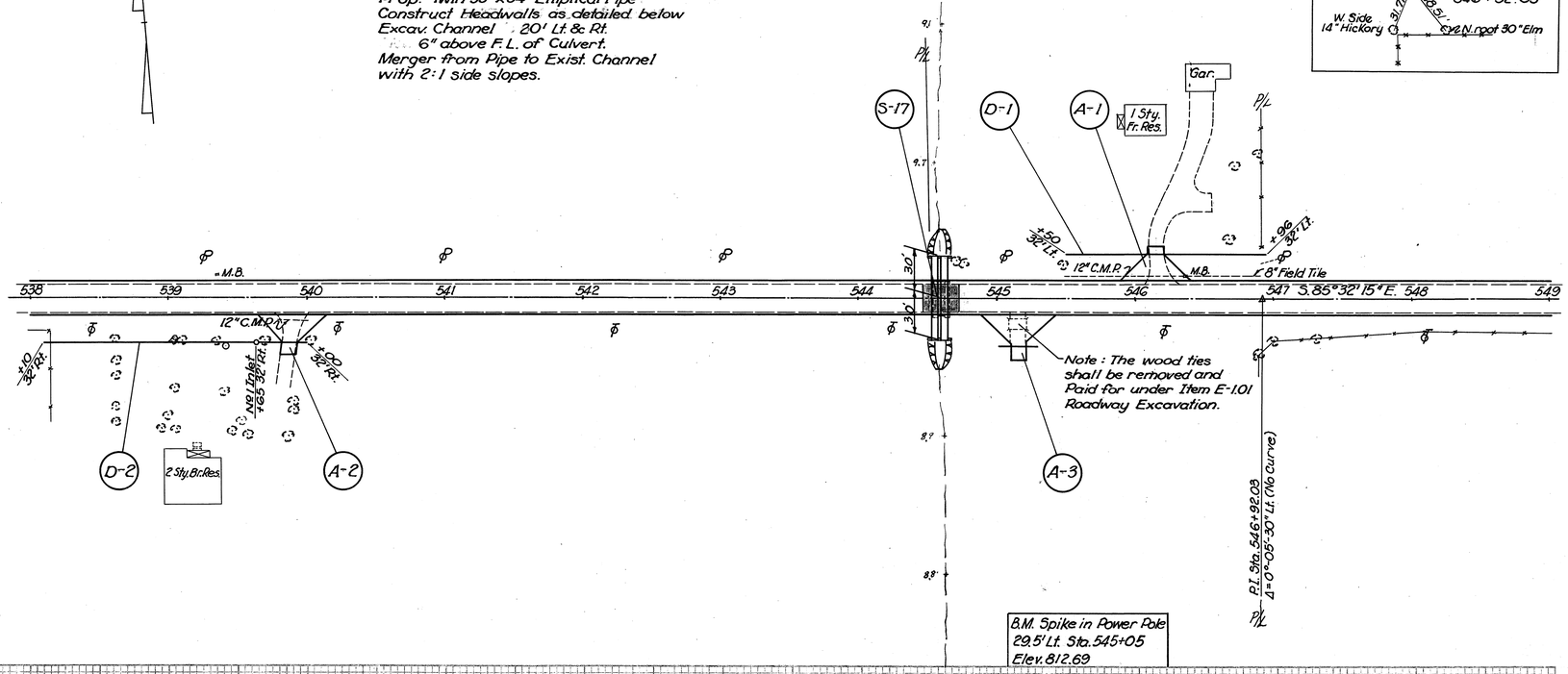
Sta. 527+00 - 538+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS	35
2	OHIO			146

LOR-82-(4.79-12.47)

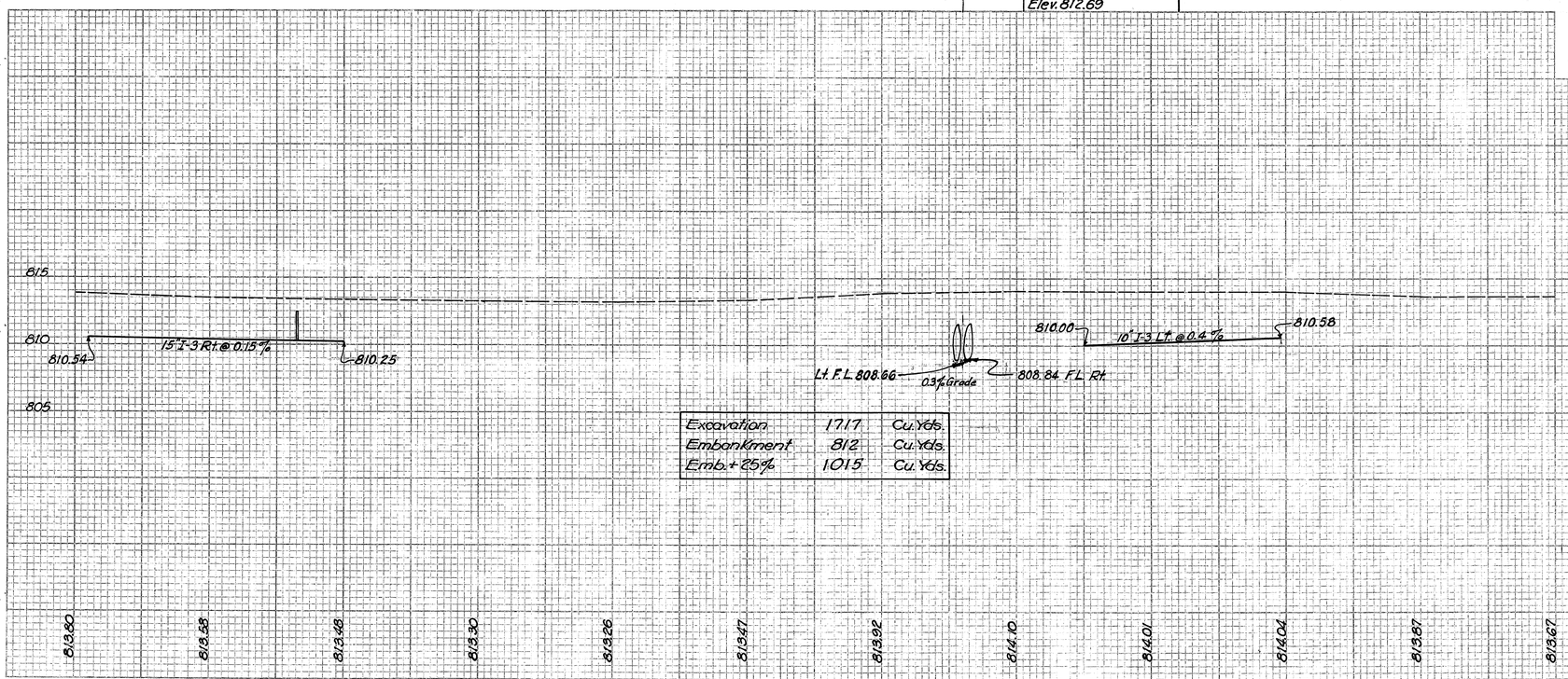
S-17 Str. Nº LOR-82-1031
Sta. 544+60 D.A.= 1.30 Ac.
Cover @ ℄ = 2.8'
Remove Exist. 4.5'x 3' slab
Prop.- Twin 53"x 34" Elliptical Pipe
Construct Headwalls as detailed below
Excav. Channel , 20' Lt. & Rt.
6" above F.L. of Culvert.
Merger from Pipe to Exist. Channel
with 2:1 side slopes.



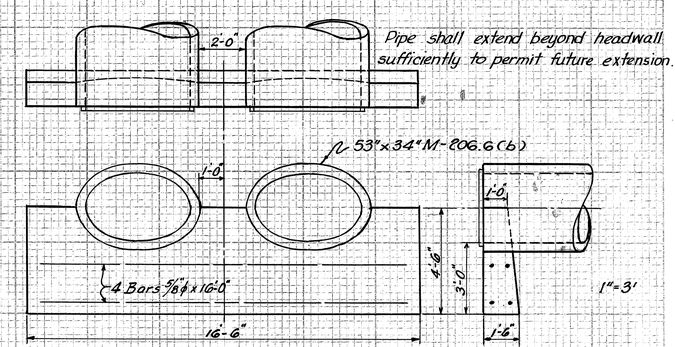


Ref. Nº	Station	T-35 Asph. Conc. Surface Course Cu.Yds. 2"	B-119 Crushed Aggregate Base Course Cu.Yds. 5"	B-119 Crushed Aggregate Base Course Cu.Yds. 6"	E-12 Pipe Remov. 15" & Under Lin.Ft.	I-1 Pipe for Drives Lin.Ft. 12"	I-3 Roadway Drainage Std. Lin.Ft. 10"	I-3 Roadway Drainage Under Pav't. Lin.Ft. 10"	I-3 Roadway Drainage Std. Lin.Ft. 15"	I-3 Roadway Drainage Under Pav't. Lin.Ft. 15"	I-8 Nº 1 Inlet Units
A-1	546+15 Lt. L=25'	4.3	11.0		144						
A-2	539+92 Rt. L=29'	4.6	11.8		24						
A-3	545+16 Rt. L=33'			14.7		28					
D-1	545+50-546+96 Lt.						126	20			
D-2	538+10-540+00 Rt.								168	20	1
	Totals	8.9	22.8	14.7	168	28	126	20	168	20	1

Ref. Nº	Station	S-27 Rd'wy. Culv. Mt 206.6 (b) Lin.Ft. 53"x34"	S-24 Struc. Remov. Lump	S-1 Conc. for Struc. Cu.Yds.	S-4 Reinf. Steel Lbs.	E-2 Excav. for Struc. Cu.Yds.	E-3 Chann. Excav. Cu.Yds.	Base Replac-ement Sq.Yds.	E-8 Pav't. Removl. Sq.Yds.
S-17	544+60	120	1	5.4	136	12	210	62.2	56.0
	Totals	120	1	5.4	136	12	210	62.2	56.0



Excavation	1717	Cu.Yds.
Embankment	812	Cu.Yds.
Emb.+25%	1015	Cu.Yds.



HEADWALL DETAILS AT STA. 544+60

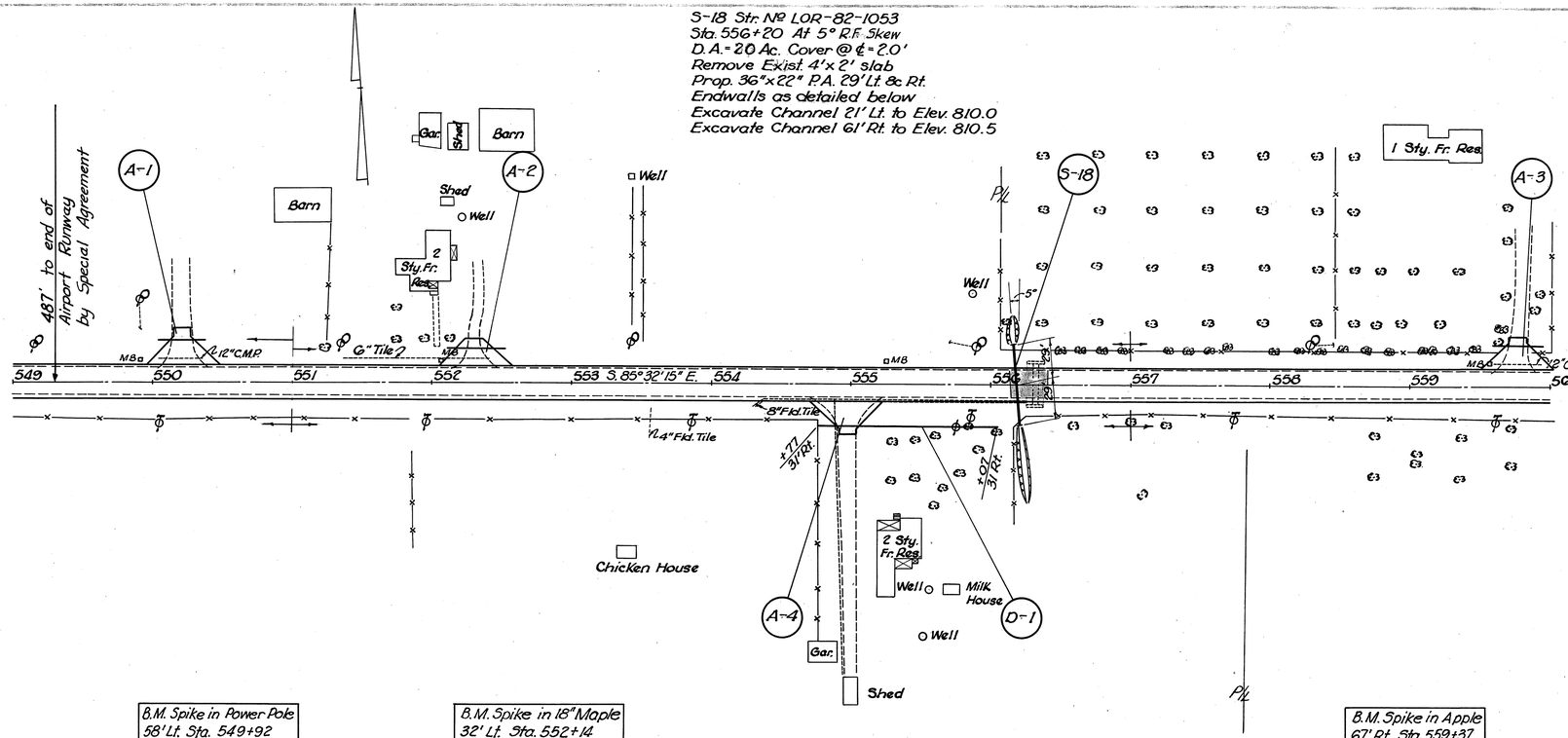
Sta. 538+00 - 549+00

FED. OR DIVISION	STATE	PROJECT		
2	OHIO			

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LOR-82-(4.79-12.47)

S-18 Str. Nº LOR-82-1053
Sta. 556+20 At 5° R.F. Skew
D.A.=20 Ac. Cover @ ℄=2.0'
Remove Exist. 4'x 2' slab
Prop. 36"x 22" P.A. 29' Lt. & Rt.
Endwalls as detailed below
Excavate Channel 21' Lt. to Elev. 810.0
Excavate Channel 61' Rt. to Elev. 810.5



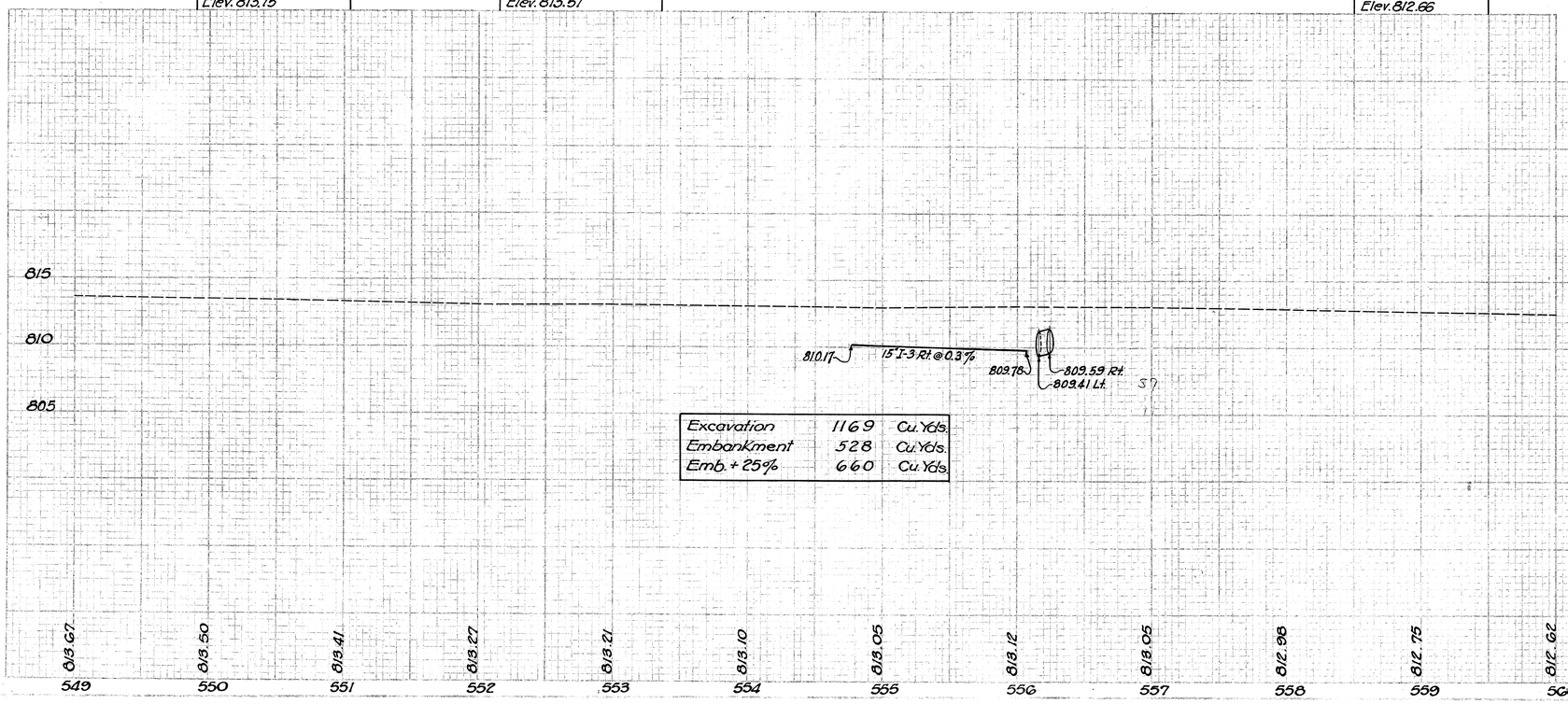
Ref. Nº	Station	T-35 Asph. Conc. Surface Course Cu.Yds. 2"	B-119 Crushed Aggregate Base Course Cu.Yds. 5"	B-119 Crushed Aggregate Base Course Cu.Yds. 7"	E-12 Pipe Remov. 15" & Under Lin.Ft.	I-1 Pipe for Drives Lin.Ft. 8"	I-1 Pipe for Drives Lin.Ft. 12"	I-3 Roadway Drainage Std. Lin.Ft. 15"	I-3 Roadway Drainage Under Pav't. Lin.Ft. 15"
A-1	550+21 Lt. L=26'	4.4		16.1	32		34		
A-2	552+33 Lt. L=20'	4.0	10.0			42			
A-3	559+76 Lt. L=23'	4.2	10.6		34		36		
A-4	554+97 Rt. L=23'	4.2	10.6						
D-1	554+77-556+07 Rt.							100	30
	Totals	16.8	31.2	16.1	66	42	70	100	30

Ref. Nº	Station	S-27 Rd'wy. Culv. M-6.4(i)(d) Lin.Ft. 36"x 22"	S-1 Conc. for Struc. Cu.Yds.	S-24 Struc. Remov. Lump	E-2 Excav. for Struc. Cu.Yds.	E-3 Chann. Excav. Cu.Yds.	Base Replace-ment Sq.Yds.	E-8 Pav't. Remov. Sq.Yds.
S-18	556+20	58	1.3	1	34	10	57.8	52.0
	Totals	58	1.3	1	34	10	57.8	52.0

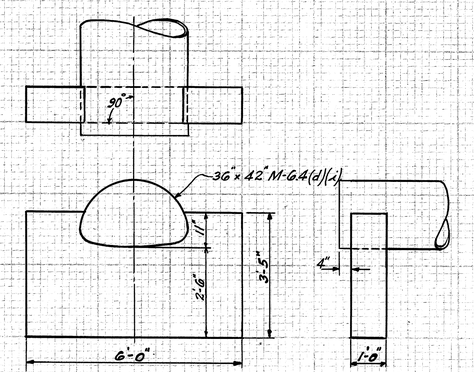
B.M. Spike in Power Pole
58' Lt. Sta. 549+92
Elev. 813.75

B.M. Spike in 18" Maple
32' Lt. Sta. 552+14
Elev. 813.57

B.M. Spike in Apple
67' Rt. Sta. 559+37
Elev. 812.66



Excavation	1169	Cu.Yds.
Embankment	528	Cu.Yds.
Emb. + 25%	660	Cu.Yds.



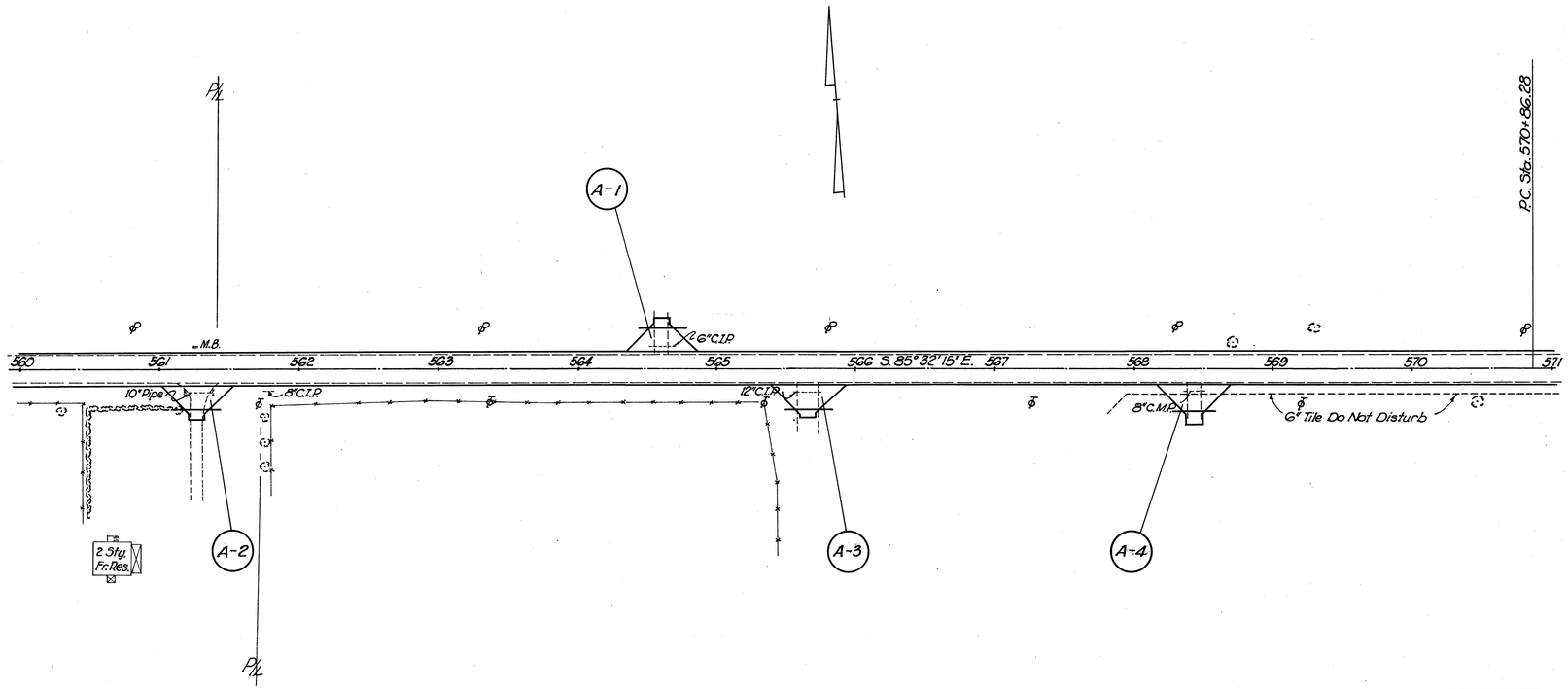
HEADWALL DETAILS AT STATION 556+20

Sta. 549+00 - Sta. 560+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

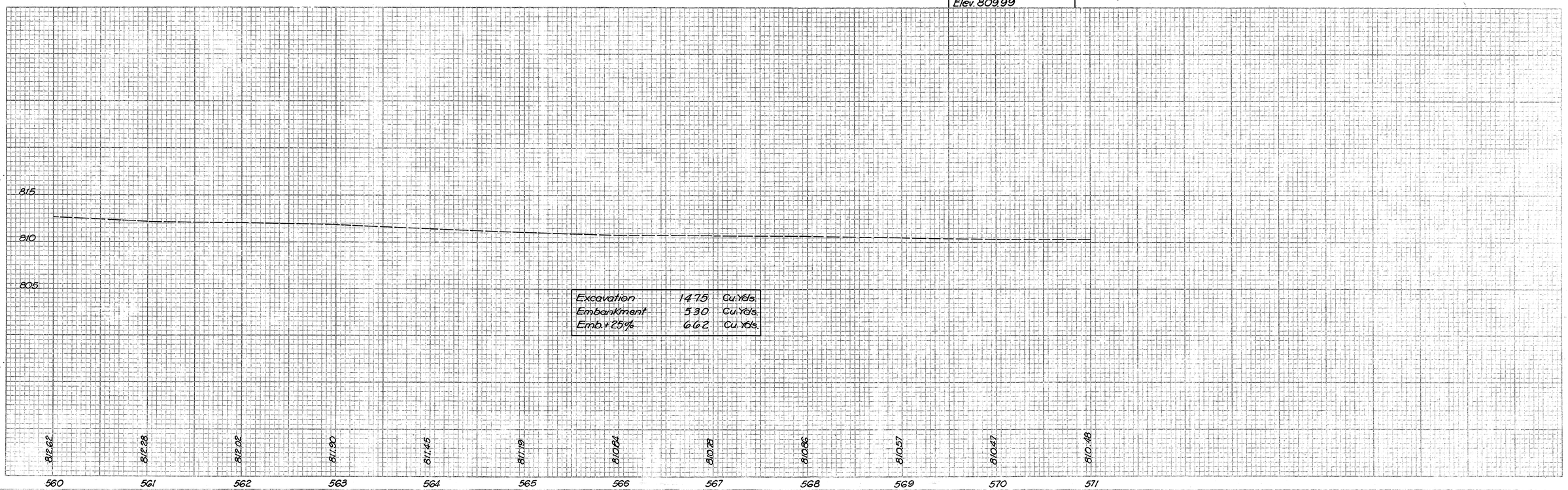
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LOR-82-(4.79-12.47)



Ref. Nº	Station			T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushed Aggregate Base Course Cu. Yds. 5"	B-119 Crushed Aggregate Base Course Cu. Yds. 6"	I-1 Pipe for Drives Lin. Ft. 12"	E-12 Pipe Remov. 15" & Under Lin. Ft.			
A-1	564+62	Lt.	L=24'			12.7	34				
A-2	561+28	Rt.	L=24'	4.2	10.8		34				
A-3	565+64	Rt.	L=23'			12.5	34	20			
A-4	568+43	Rt.	L=28'			13.6	30				
	Totals			4.2	10.8	38.8	132	20			

B.M. Spike in Power Pole
29' Lt. Sta. 570+79
Elev. 809.99



Excavation	1475	Cu. Yds.
Embankment	530	Cu. Yds.
Emb. +25%	662	Cu. Yds.

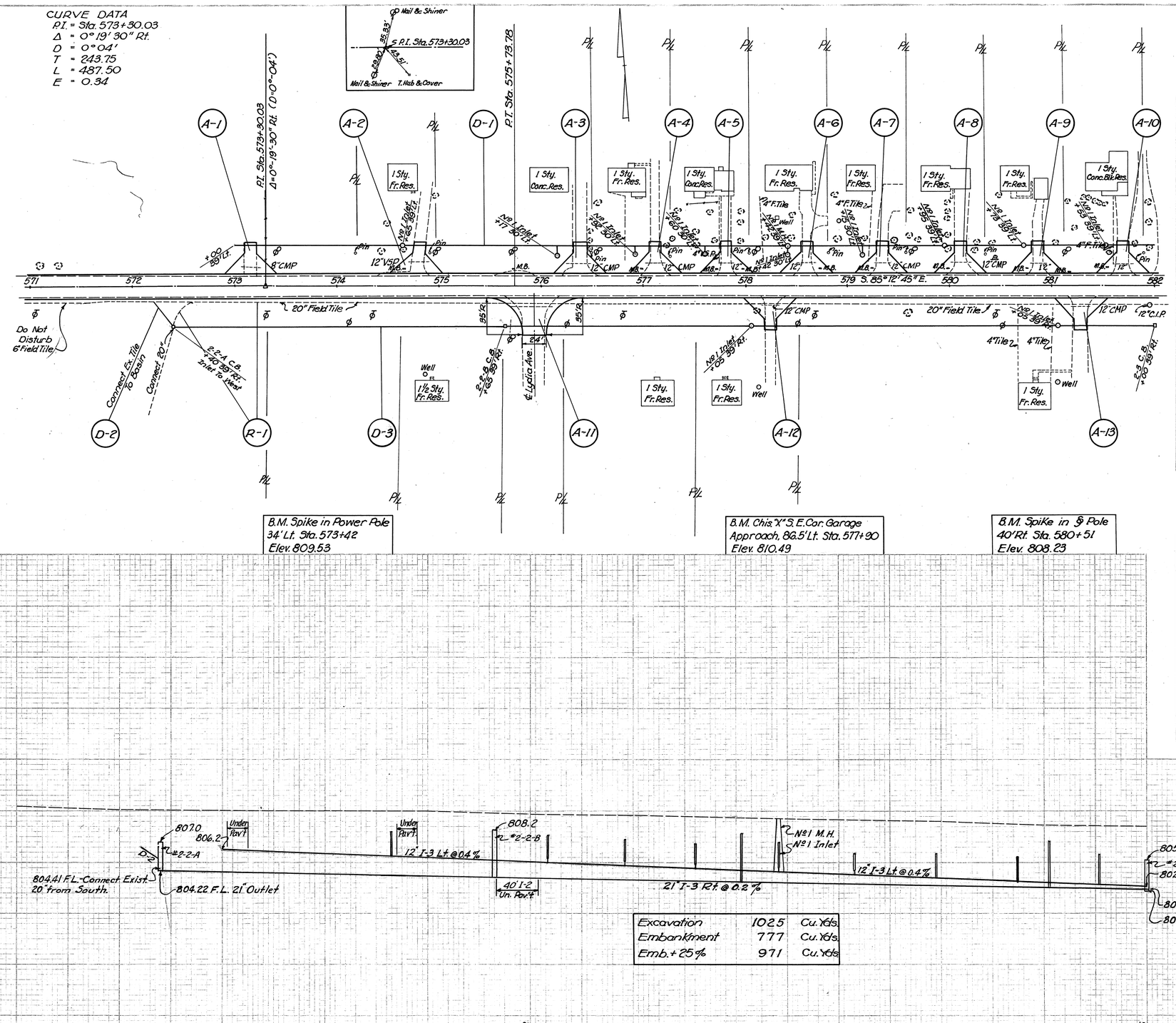
Sta. 560+00 - 571+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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LOR-82 (4.79-12.47)

CURVE DATA
P.I. = Sta. 573+30.03
Δ = 0° 19' 30" Rt.
D = 0° 04'
T = 243.75
L = 487.50
E = 0.34

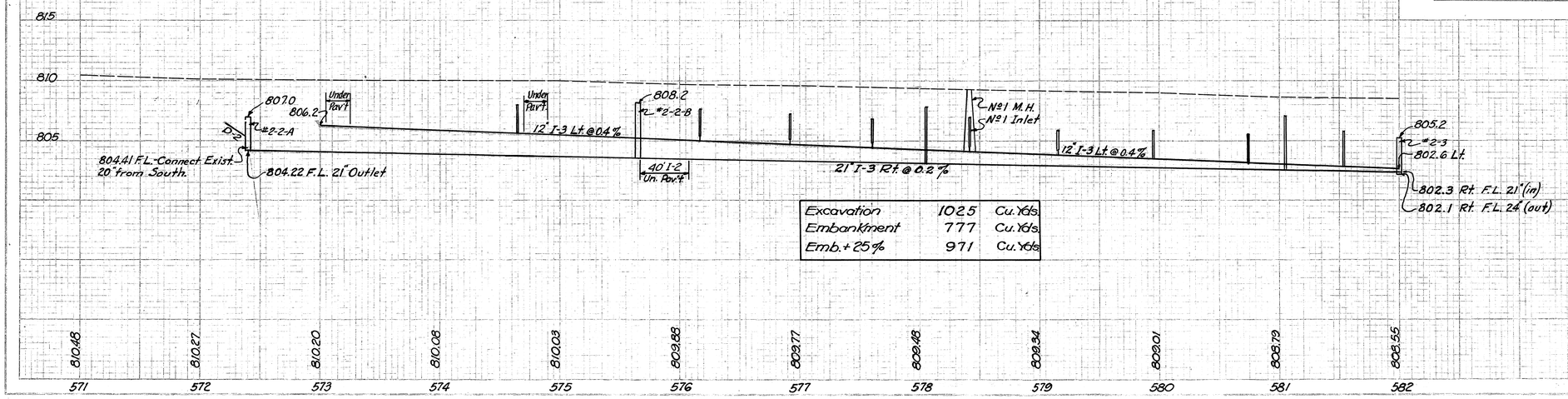


Ref. Nº	Station		T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-35 Asph. Conc. Leveling Course Cu. Yds. 2"	B-119 Crushed Aggregate Base Course Cu. Yds. 5"	6"	7"	E-12 Pipe Removed 15" & Under Lin. Ft.	Over 15" Lin. Ft.	I-16 Catch Basin Aban. Units
A-1	573+15	Lt. L=31'				14.3				
A-2	574+76	Lt. L=31'	4.8		12.2			20		
A-3	576+39	Lt. L=31'	4.8		12.2			24		
A-4	577+13	Lt. L=31'	4.8		12.2			20		
A-5	577+83	Lt. L=31'	4.8		12.2			16		
A-6	578+60	Lt. L=31'	4.8		12.2			20		
A-7	579+33	Lt. L=31'	4.8		12.2			16		
A-8	580+11	Lt. L=31'	4.8		12.2			20		
A-9	580+87	Lt. L=31'	4.8		12.2			16		
A-10	581+70	Lt. L=31'	4.8		12.2			20		
A-11	575+92	Rt. L=35'	*6.3	8.4			30.7	40		
A-12	578+25	Rt. L=31'	4.8		12.2			18		
A-13	581+29	Rt. L=31'	4.8		12.2			20		
R-1	572+39 - 582+00	Rt.							978	1
	Totals		59.1	8.4	134.2	14.3	30.7	250	978	1

* Quantity calculated for a depth of 1½"

Ref. Nº	Station		I-3 Roadway Drainage Std. 6" Lin. Ft.	Std. 12" Lin. Ft.	Under Pav't. 12" Lin. Ft.	Std. 21" Lin. Ft.	I-2 Class A Stm. Sew. Under Pav't. 21" Lin. Ft.	I-8 Nº 1 Inlet Units	Nº 1 Std. Man-Hole Units	Nº 2-3 Catch Basin Units	Nº 2-2-A Catch Basin Units	Nº 2-2-B Catch Basin Units	I-5 Pipe Specials Units
D-1	573+00	-582+00 Lt.		872	40			9	1				°4
D-2	572+20	-572+40 Rt.	30										
D-3	572+40	-582+00 Rt.				912	40	2		1	1	1	
	Totals		30	872	40	912	40	11	1	1	1	1	°4

° 12" x 12" Tee



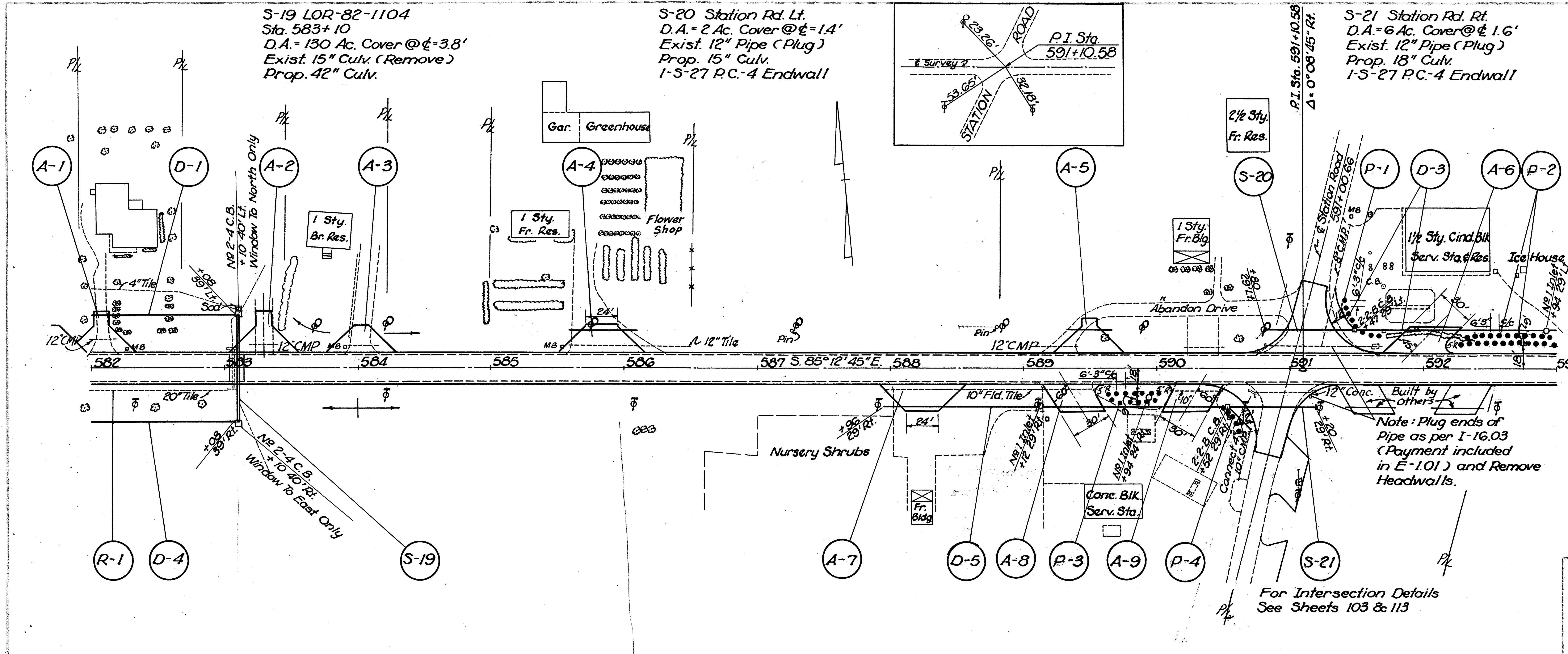
Excavation	1025	Cu. Yds.
Embankment	777	Cu. Yds.
Emb. + 25%	971	Cu. Yds.

Sta. 571+00 - 582+00

S-19 LOR-82-1104
Sta. 583+10
D.A.= 130 Ac. Cover @ ℄=3.8'
Exist. 15" Culv. (Remove)
Prop. 42" Culv.

S-20 Station Rd. Lt.
D.A.= 2 Ac. Cover @ ℄= 1.4'
Exist. 12" Pipe (Plug)
Prop. 15" Culv.
1-S-27 P.C.-4 Endwall

S-21 Station Rd. Rt.
D.A.= 6 Ac. Cover @ ℄ 1.6'
Exist. 12" Pipe (Plug)
Prop. 18" Culv.
1-S-27 P.C.-4 Endwall



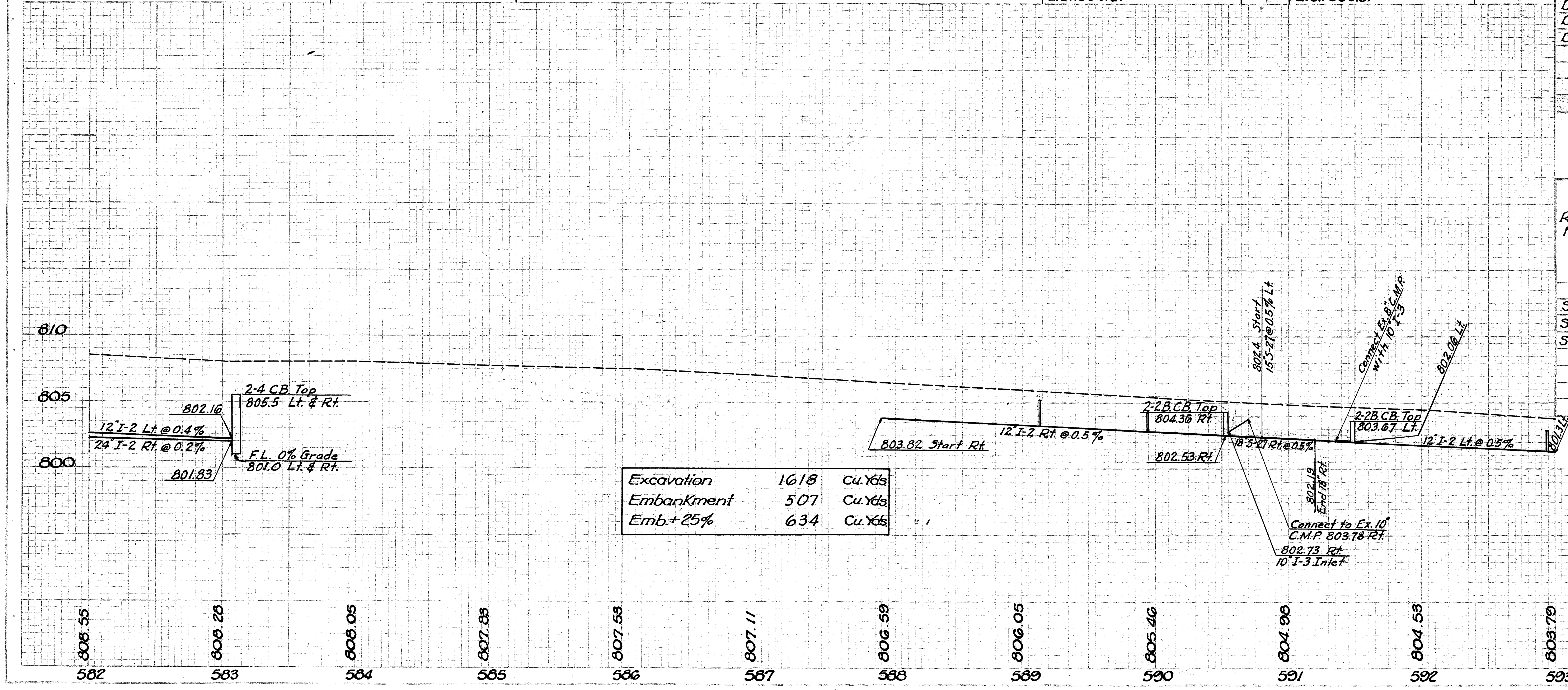
Note: Plug ends of Pipe as per I-16.03 (Payment included in E-1.01) and Remove Headwalls.

For Intersection Details See Sheets 103 & 113

B.M. S.E. Cor. Bottom Step to House, 81' Lt. Sta. 583+83 Elev. 808.76

B.M. N.W. Cor. Conc. Base Light Pole 38' Rt. Sta. 589+15 Elev. 806.27

B.M. Spike in Root 60" Elm 84' Rt. Sta. 591+07.5 Elev. 805.31



Excavation	1618	Cu. Yds.
Embankment	507	Cu. Yds.
Emb. + 25%	634	Cu. Yds.

Ref. Nº	Station	T-35 Asph. Conc. Surface Course Cu. Yds.	B-119 Crushed Aggregate Base Course Cu. Yds.			E-12 Pipe Remov. 15" & Under Lin. Ft.	I-1 Pipe for Drives Lin. Ft.	I-15 Guard Rail Posts Only Units		
		2"	5"	6"	7"		12"			
A-1	582+08 Lt. L=31'	4.5	11.4			20				
A-2	583+29 Lt. L=31'			14.3		22				
A-3	584+03 Lt. L=20'	4.0	10.0			24				
A-4	585+84 Lt. L=21'	5.6			20.2	92	50			
A-5	589+49 Lt. L=26'	4.4	11.2			28	34			
A-6	591+80 Lt. L=20'	5.3			18.8					
A-7	588+24 Rt. L=20'	5.6			20.2					
A-8	589+25 Rt. L=20'	4.3			15.5					
A-9	590+40 Rt. L=20'	4.3			15.5					
P-1	15+64 Rt.-591+64 Lt.							8		
P-2	592+28-592+97 Lt.							23		
P-3	589+64-590+02 Rt.							13		
P-4	590+50 Rt-14+45 Lt.							5		
	Totals	38.0	32.6	14.3	90.2	186	84	49		

Ref. Nº	Station	I-2 Class A Stm. Sew. Under Pav't. Lin. Ft.	I-3 Roadway Drainage				I-8		I-5 Pipe Special		
			Std. Lin. Ft.	Under Pav't. Lin. Ft.	Std. Lin. Ft.	Std. Lin. Ft.	Nº 1 Inlet Units	Nº 2-2-B Std. C.B. Units	Units		
		12"	10"	10"	12"	24"			12"x12"T		
D-1	582+00-583+08 Lt.				108						
D-3	591+47-593+00 Lt.	150	34				1	1			
D-4	582+00-583+08 Rt.					108					
D-5	587+96-590+52 Rt.	254	24				2	1	1		
	Totals	404	58		108	108	3	2	1		

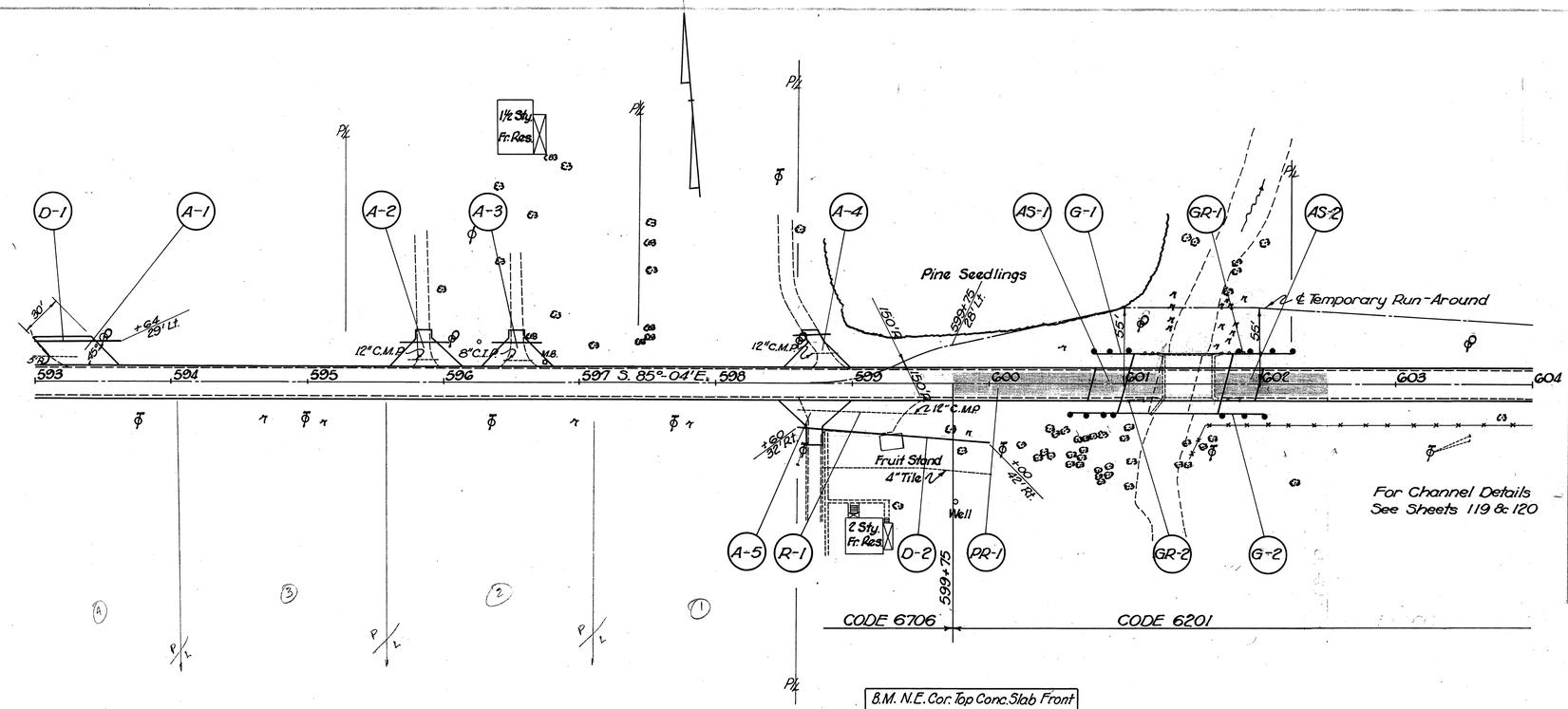
Ref. Nº	Station	S-27 Roadway Culvert			S-1 Conc. for Struc.	S-24 Struc. Remov.	E-2 Excav. for Struc.	E-8 Pav't. Remov.	Base Replacement	L-10 Sodding	I-8 Nº 2-4 C.B.	S-22 Remov. Portion Existing Struct.
		M-6.6(b) Lin. Ft.	M-6.4(d) Lin. Ft.		Cu. Yds.	Lump	Cu. Yds.	Sq. Yds.	Sq. Yds.	Sq. Yds.	Units	Cu. Yds.
		42"	18"	15"								
S-19	583+10	76				1	130	20.0	20	*3	2	
S-20	Station Rd. Lt.			68	0.26		19		21			1.1
S-21	Station Rd. Rt.		68		0.30		23		17			2.2
	Totals	76	68	68	0.56	1	172	20.0	58	*3	2	3.3

* At window on North Side

FED. RD DIVISION	STATE	PROJECT		
2	OHIO			

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LOR-82-(4.79-12.47)



Ref. Nº	Station	T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushed Aggregate Base Course Cu. Yds. 5"	B-119 Crushed Aggregate Base Course Cu. Yds. 7"	E-12 Pipe Removal 15" & Under Lin. Ft.	I-1 Pipe for Drives Lin. Ft. 12"	E-8 Pav't. Removal Sq. Yds.	I-2 Class A Strm. Sew. Under Pav't. Lin. Ft. 12"	I-3 Roadway Drainage Std. Lin. Ft. 18"	I-3 Roadway Drainage Under Pav't. Lin. Ft. 18"
A-1	593+50 Lt. L=20'	5.3		18.8						
A-2	595+88 Lt. L=27'			*13.4	24	36				
A-3	596+57 Lt. L=27'	4.5	11.4			36				
A-4	598+90 Lt. L=31'	4.8	12.2		20	28				
A-5	598+73 Rt. L=33'	4.9	12.9		20					
R-1	598+60–599+56 Rt.				96					
PR-1	599+75–602+50						474			
O-1	593+00–593+64 Lt.							64		
O-2	598+60–600+00 Rt.								116	24
	Totals	19.5	36.5	32.2	140	100	474	64	116	24

* 6" Thickness

Ref. Nº	Station	I-15 G. Rail Removal & Disp. Of Lin. Ft.	I-15 G. Rail Steel Beam (Deep) Lin. Ft.	I-7 Reinf. Conc. Appr. Slabs Sq. Yds. 13" Th.	I-22 Sub-base Cu. Yds. 6" ±
GR-1	601+17–602+03 Lt.	48			
GR-2	601+03–601+85 Rt.	44			
AS-1	600+76.47–601+01.47			66.7	11.6
AS-2	601+74.53–601+99.53			66.7	11.6
G-1	600+78.42–602+15.92		64.44		
G-2	600+60.08–601+97.58		64.44		
	Totals	92	128.88	133.4	23.2

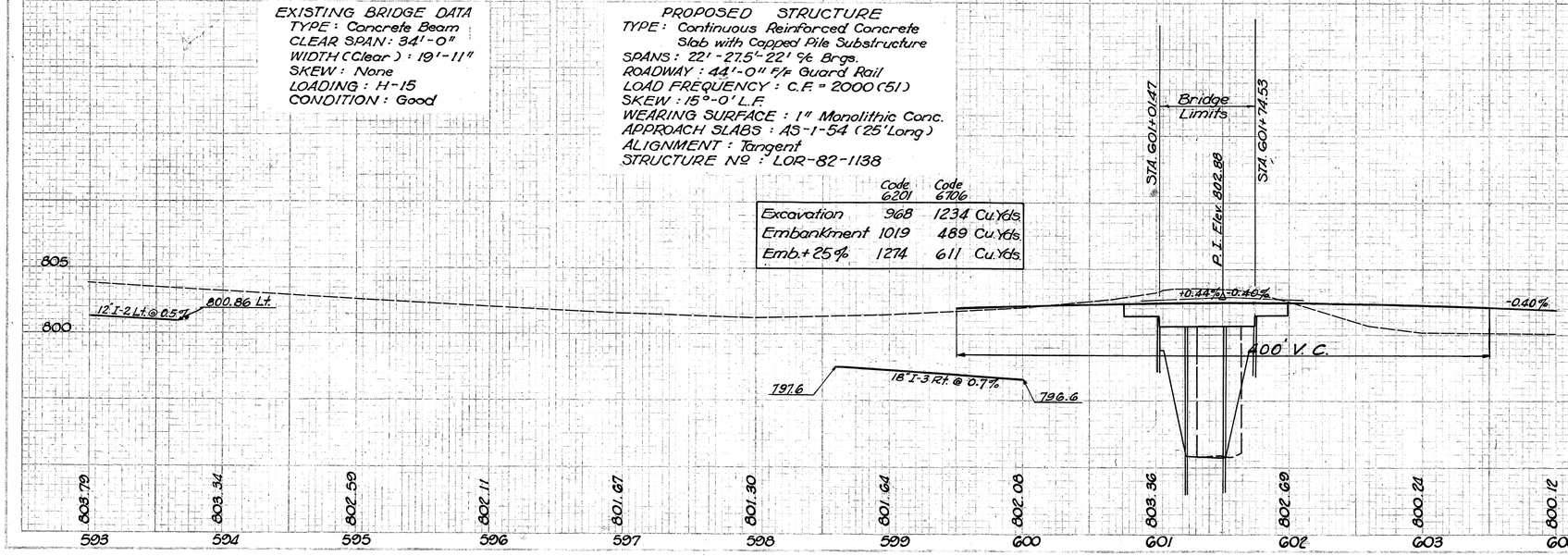
B.M. N.E. Cor. Top Conc. Slab Front White House, 97' Rt. Sta. 599+05 Elev. 803.86

802.00 802.10 802.19 802.27 802.33 802.39 802.42 802.45 802.46 802.46 802.44 802.42 802.37 802.32 802.25 802.17 802.08 801.88

EXISTING BRIDGE DATA
TYPE : Concrete Beam
CLEAR SPAN : 34'-0"
WIDTH (Clear) : 19'-11"
SKEW : None
LOADING : H-15
CONDITION : Good

PROPOSED STRUCTURE
TYPE : Continuous Reinforced Concrete Slab with Capped Pile Substructure
SPANS : 22'-27.5'-22' c/c Brgs.
ROADWAY : 44'-0" f/f Guard Rail
LOAD FREQUENCY : C.F. = 2000 (51)
SKEW : 15°-0' L.F.
WEARING SURFACE : 1" Monolithic Conc.
APPROACH SLABS : AS-1-54 (25' Long)
ALIGNMENT : Tangent
STRUCTURE Nº : LOR-82-1138

	Code 6201	Code 6706	
Excavation	968	1234	Cu. Yds.
Embankment	1019	489	Cu. Yds.
Emb. + 25%	1274	611	Cu. Yds.



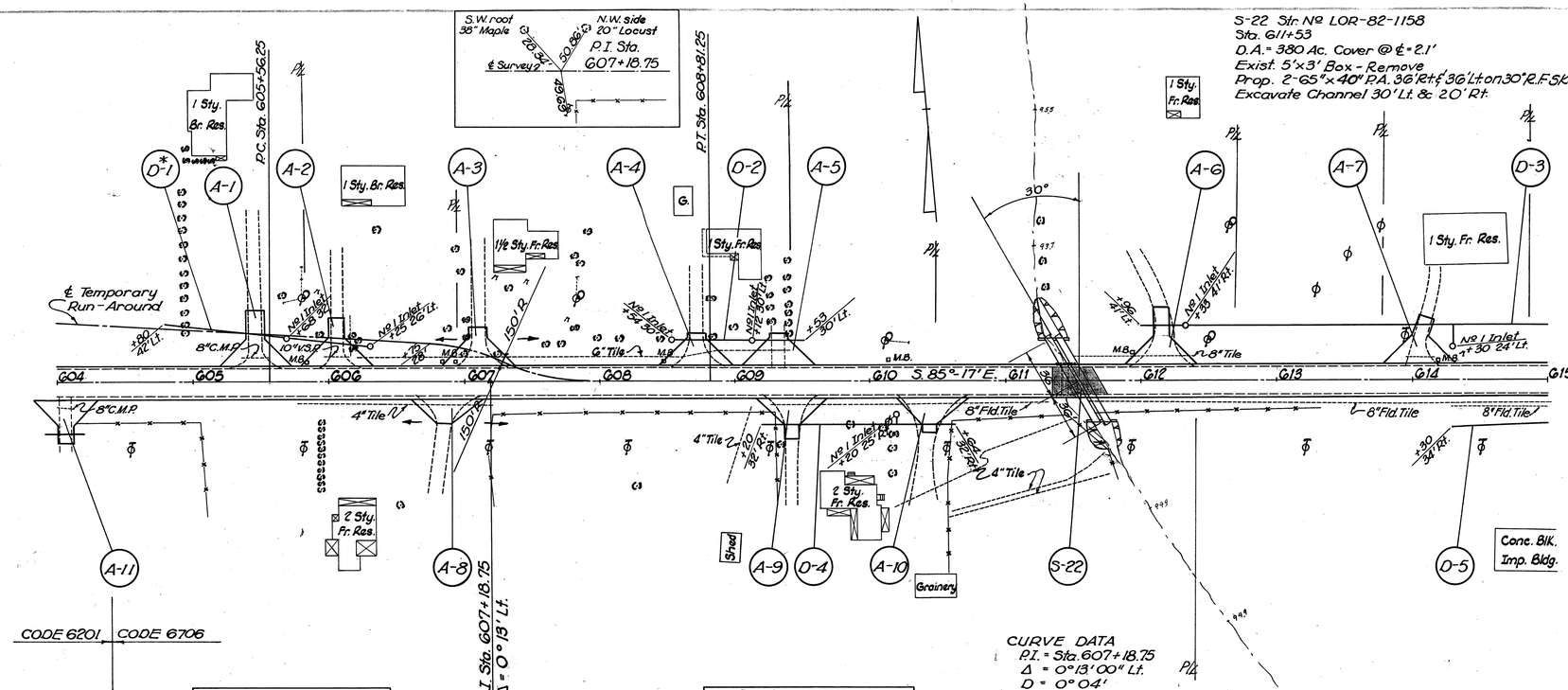
Sta. 593+00 – Sta. 604+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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LOR-82-(4.79-12.47)

S-22 Str. Nº LOR-82-1158
Sta. 611+53
D.A. = 380 Ac. Cover @ ℄ = 2.1'
Exist. 5'x3' Box - Remove
Prop. 2-65"x40" P.A. 36' Rt. & 36' Lt. on 30° R.F. Skew
Excavate Channel 30' Lt. & 20' Rt.



Ref. Nº	Station	T-35 Asph. Conc. Surface Course Cu.Yds. 2"	B-119 Crushed Aggregate Base Course Cu.Yds. 5"	B-119 Crushed Aggregate Base Course Cu.Yds. 6"	I-1 Pipe for Drives Lin.Ft. 12"	I-3 Roadway Drainage Std. Lin.Ft. 10"	I-3 Roadway Drainage Under Pav't. Lin.Ft. 10"	I-3 Roadway Drainage Std. Lin.Ft. 24"	I-5 Pipe Specials Units 10'x.04	I-5 Pipe Specials Units 21'x.07	I-8 Nº 1 Inlet Units
A-1	605+48 Lt. L=40'	5.4	14.0								
A-2	606+08 Lt. L=35'	5.1	13.0								
A-3	607+12 Lt. L=28'	4.5	11.6								
A-4	608+72 Lt. L=22'	4.1	10.4								
A-5	609+34 Lt. L=22'			12.3							
A-6	612+15 Lt. L=41'	5.5	14.5								
A-7	614+06 Lt. L=35'	5.1	13.0								
A-8	606+84 Rt. L=20'	4.0	10.0								
A-9	609+42 Rt. L=30'			14.1							
A-10	610+48 Rt. L=26'	4.3	11.2								
A-11	604+06 Rt. L=33'			14.7	30						
* D-1	604+80-606+25 Lt.					100*	42*				2 *
D-2	608+54-609+52 Lt.					56	40				2
D-3	611+96-615+00 Lt.					16		298		1	2
D-4	609+20-610+64 Rt.					106	40		1		1
D-5	614+30-615+00 Rt.					70					
	Totals	38.0	97.7	41.1	30	348	122	298	1	1	7

*To be built after removal of Temporary Run-Around Road.

Ref. Nº	Station	S-27 Rd'wy. Culv. M-G.A.(X) Lin.Ft. 65"x40"	S-1 Conc. for Struc. Class "E" Cu.Yds.	S-4 Reinf. Steel Lbs.	S-24 Struc. Remov. Lump	E-2 Excav. for Struc. Cu.Yds.	E-3 Chann. Excav. Cu.Yds.	Base Replac-ement Sq.Yds.	E-8 Pav't. Remov. Sq.Yds.
S-22	611+53	152	8.1	175	1	30	155	89	80
	Totals	152	8.1	175	1	30	155	89	80

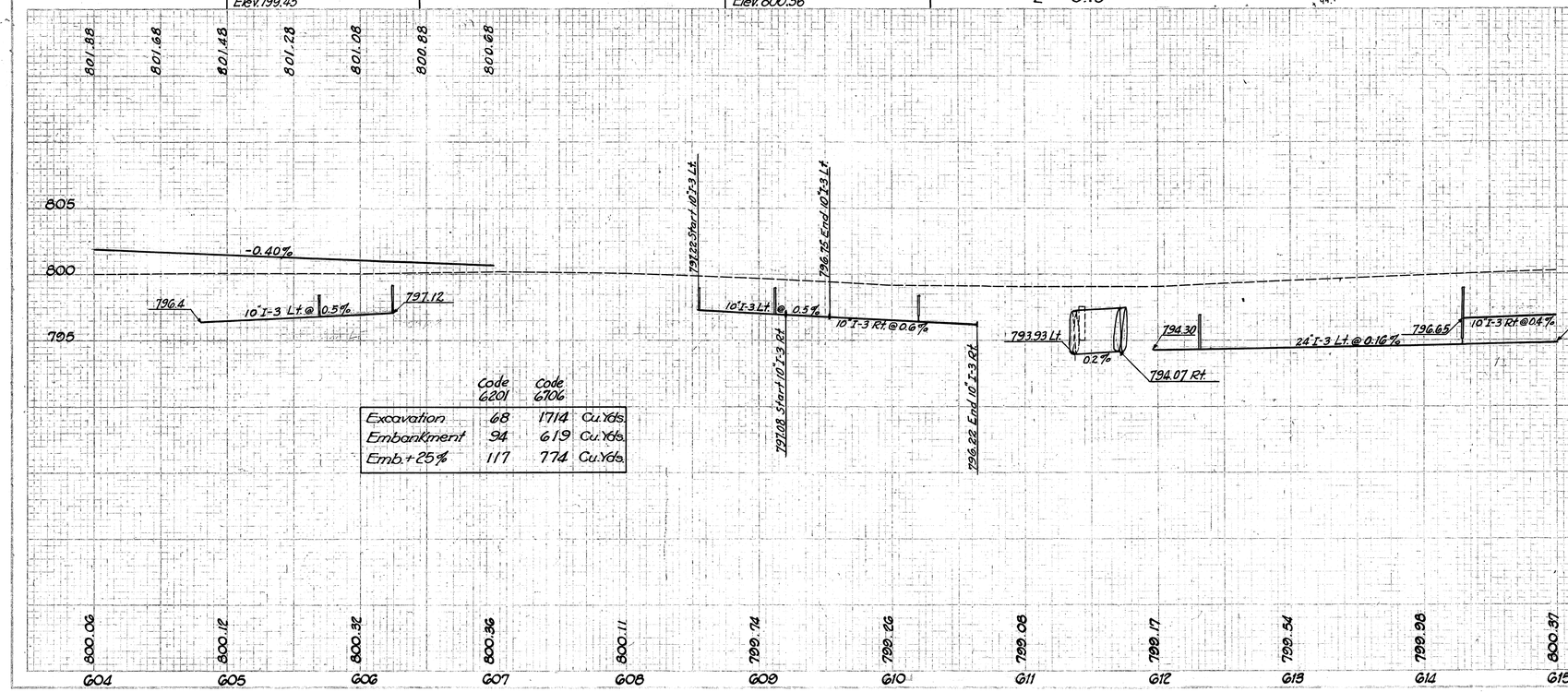
CODE 6201 CODE 6706

B.M. Spike in N. Side Power Pole
49' Rt. Sta. 605+82
Elev. 799.45

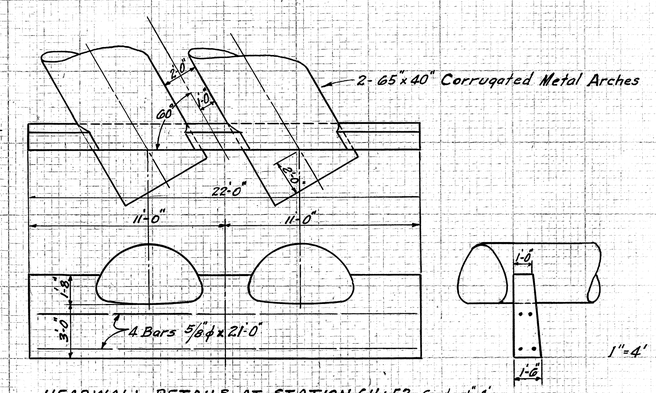
P.I. Sta. 607+18.75
Δ = 0°13'00" Lt.

B.M. S.W. Cor. Walk @ Grey House
90' Lt. Sta. 608+76
Elev. 800.36

CURVE DATA
P.I. = Sta. 607+18.75
Δ = 0°13'00" Lt.
D = 0°04'
T = 162.50
L = 325.00
E = 0.15



	Code 6201	Code 6706	
Excavation	68	1714	Cu.Yds.
Embankment	94	619	Cu.Yds.
Emb. + 25%	117	774	Cu.Yds.



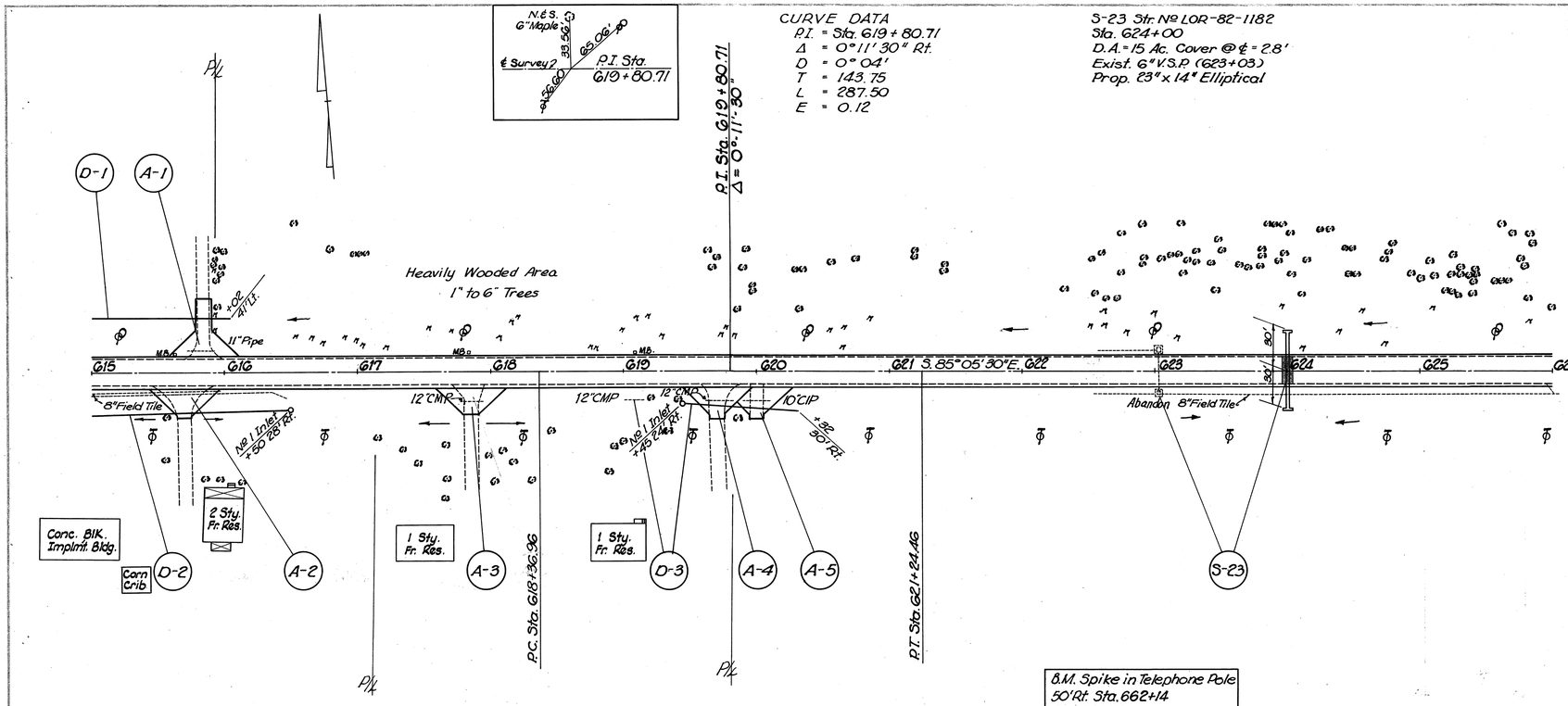
HEADWALL DETAILS AT STATION 611+53 Scale: 1"=4'

Sta. 604+00 - Sta. 615+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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LOR-82-(4.79-12.47)



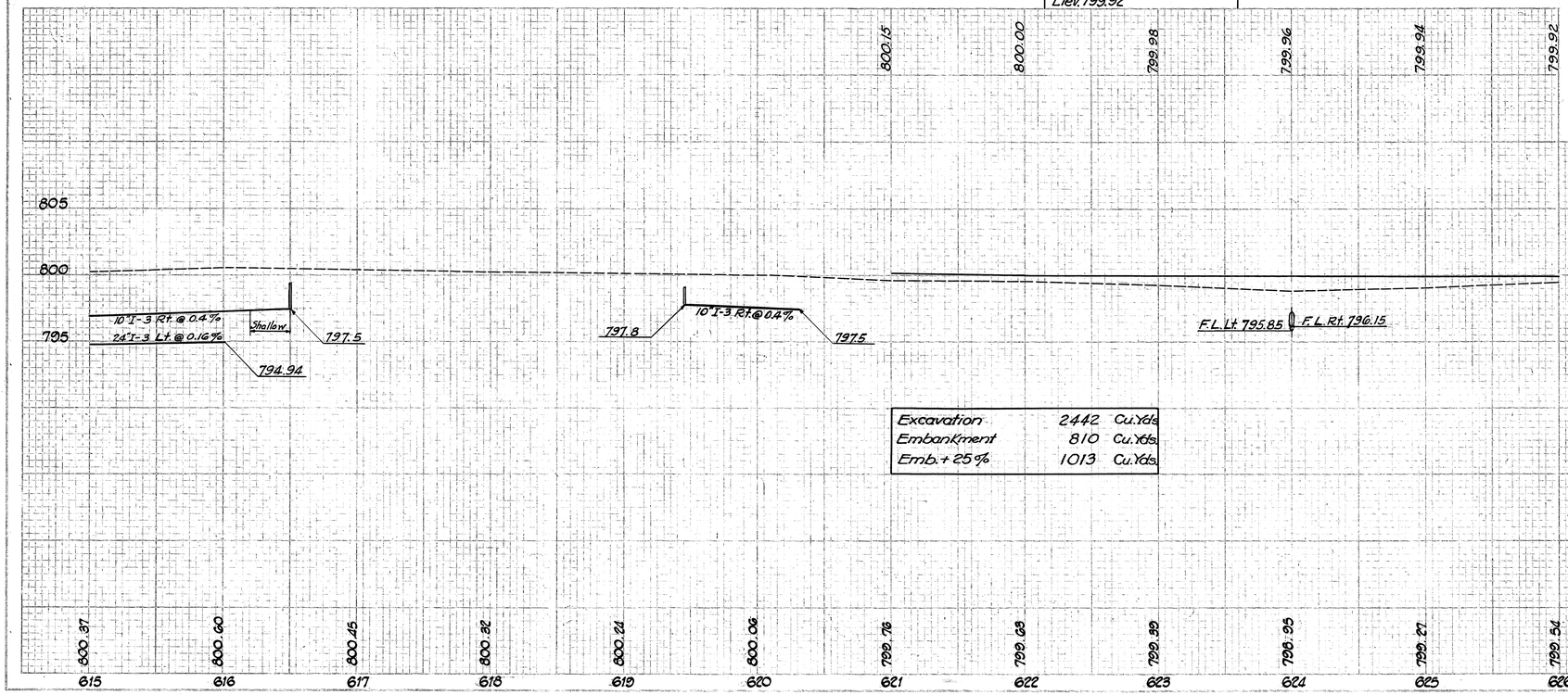
CURVE DATA
P.I. = Sta. 619+80.71
Δ = 0°-11'30" Rt.
D = 0°-04'
T = 143.75
L = 287.50
E = 0.12

S-23 Str. No LOR-82-1182
Sta. 624+00
D.A. = 15 Ac. Cover @ ℄ = 2.8'
Exist. 6" V.S.P. (623+03)
Prop. 23" x 14" Elliptical

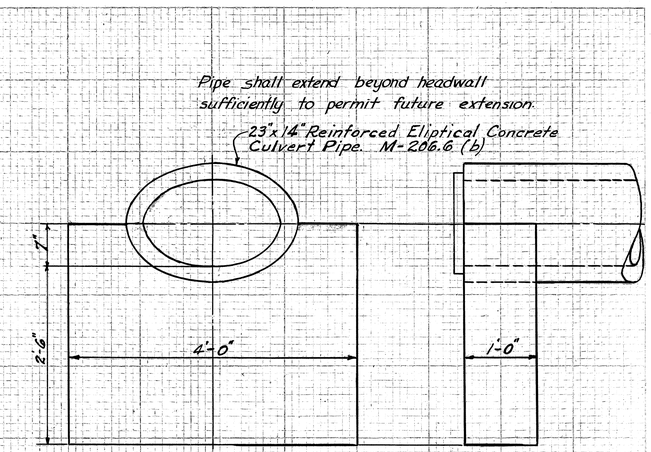
B.M. Spike in Telephone Pole
50' Rt. Sta. 662+14
Elev. 799.92

Ref. No	Station	T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushed Aggregate Base Course Cu. Yds. 5"	B-119 Crushed Aggregate Base Course Cu. Yds. 6"	E-12 Pipe Removal 15" & Under Lin. Ft.	I-3 Roadway Drainage Std. Lin. Ft. 24"	I-3 Roadway Drainage Std. Lin. Ft. 10"	I-3 Roadway Drainage Under Pav't. Lin. Ft. 10"	I-3 Roadway Drainage Shall. Cover Lin. Ft. 10"	I-8 No. 1 Inlet Units
A-1	G15+85 Lt. L=44'			16.8						
A-2	G15+70 Rt. L=22'	4.1	10.4							
A-3	G17+86 Rt. L=20'	4.0	10.0		16					
A-4	G19+71 Rt. L=24'	4.4	11.2		20					
A-5	G20+01 Rt. L=24'			10.6						
D-1	G15+00-G16+02 Lt.					102				
D-2	G15+00-G16+50 Rt.						96	24	30	1
D-3	G19+45-G20+32 Rt.				16			60	24	1
	Totals	12.5	31.6	27.4	52	102	96	84	54	2

Ref. No	Station	S-27 Rd'wy. Culv. M-206.6 (b) Lin. Ft. 23"x14"	S-1 Conc. for Struc. Cl. "E" Cu. Yds.	I-16 Catch Basin Aban. Units	E-2 Excav. for Struc. Cu. Yds.	Base Replac-ement Sq. Yds.	E-8 Pav't Removal Sq. Yds.
S-23	624+00	60	0.8	2	20	17.7	16.0
	Totals	60	0.8	2	20	17.7	16.0



Excavation	2442	Cu. Yds.
Embankment	810	Cu. Yds.
Emb. + 25%	1013	Cu. Yds.



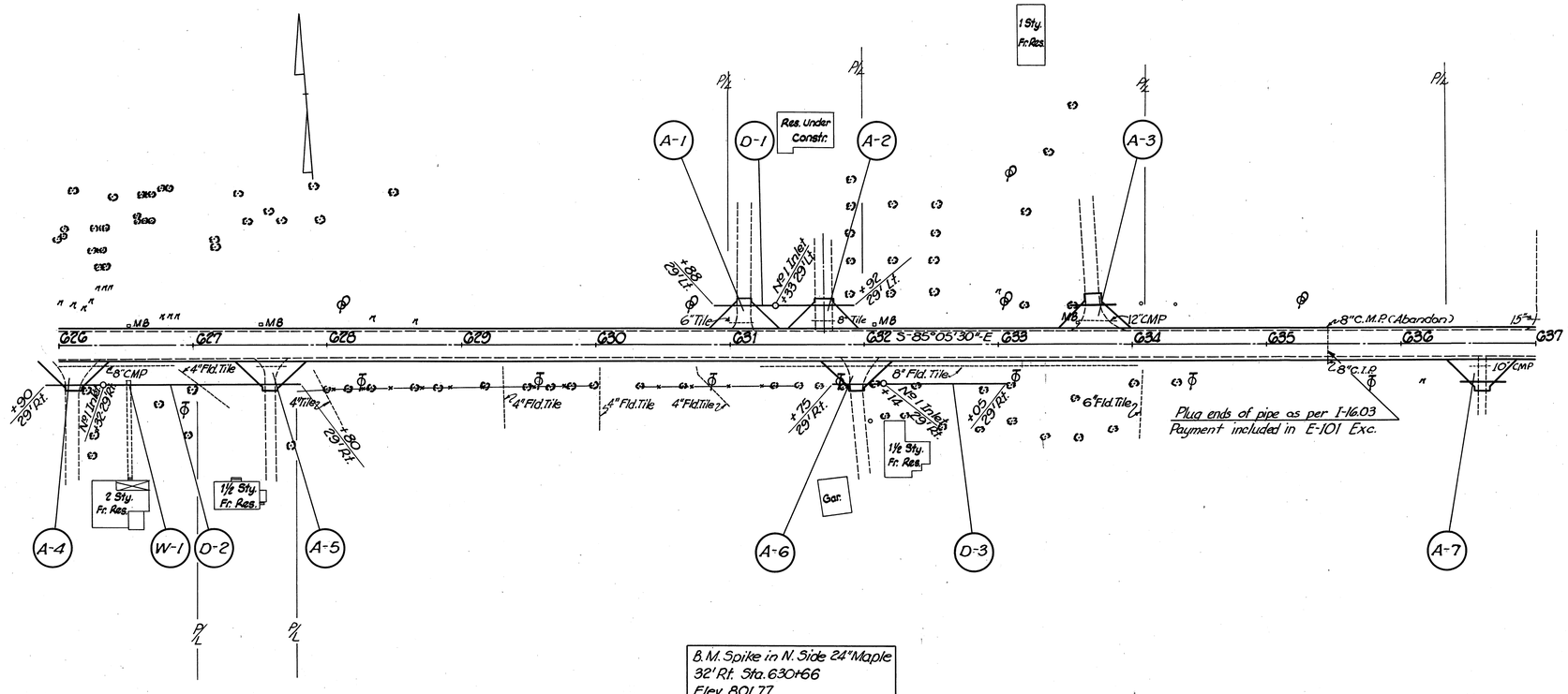
HEADWALL DETAILS AT STATION 624+00 Scale: 1"=1'-0"

Sta. 615+00 - Sta. 626+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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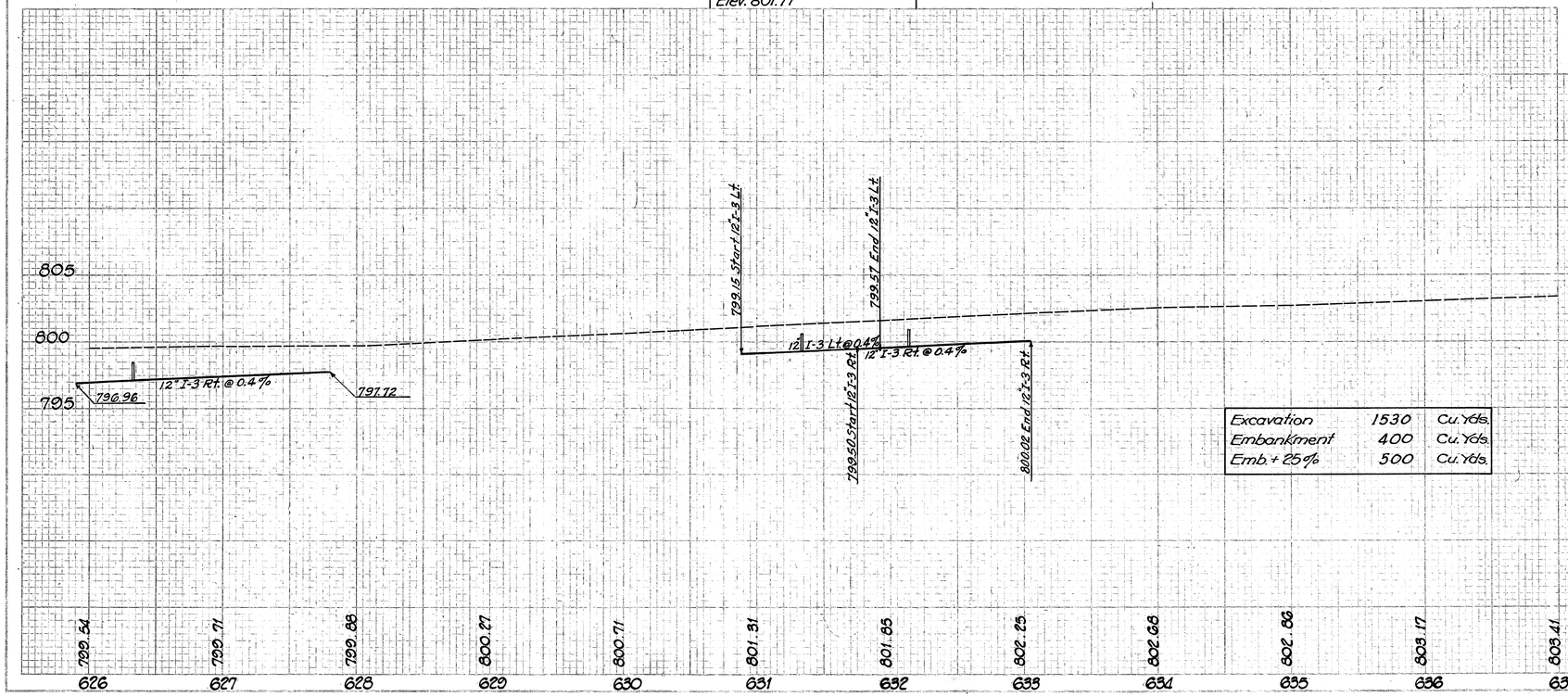


Ref. Nº	Station	T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushed Aggregate Base Course Cu. Yds. 5"	B-119 Crushed Aggregate Base Course Cu. Yds. 6"	I-1 Pipe for Drives Lin. Ft. 12"	E-8 Remov. & Disp. Ex. Side Walk Sq. Ft.	I-13 Conc. Side Walk Sq. Ft. 4"	E-12 Pipe Removed 15"ø Under Lin. Ft.
A-1	631+11 Lt. L=22'			11.9				
A-2	631+70 Lt. L=22'	4.1	10.4					
A-3	633+75 Lt. L=26'	4.4	11.2		34			28
A-4	626+12 Rt. L=22'	4.1	10.4					
A-5	627+59 Rt. L=22'	4.1	10.4					
A-6	631+94 Rt. L=22'	4.1	10.4					
A-7	636+58 Rt. L=22'			11.9	34			
W-1	626+52 Rt.					32	*24	
	Totals	20.8	52.8	23.8	68	32	*24	28

* 4' Wide

Ref. Nº	Station	I-3 Roadway Drainage Std. Lin. Ft. 12"	I-3 Roadway Drainage Shallow Lin. Ft. 12"	I-3 Roadway Drainage Under Pav't Lin. Ft. 12"	I-8 Nº 1 Inlet Units
D-1	630+88-631+92 Lt.		102		1
D-2	625+90-627+80 Rt.	148		40	1
D-3	631+75-633+05 Rt.		108	20	1
	Totals	148	210	60	3

B.M. Spike in N. Side 24" Maple
32' Rt. Sta. 630+66
Elev. 801.77



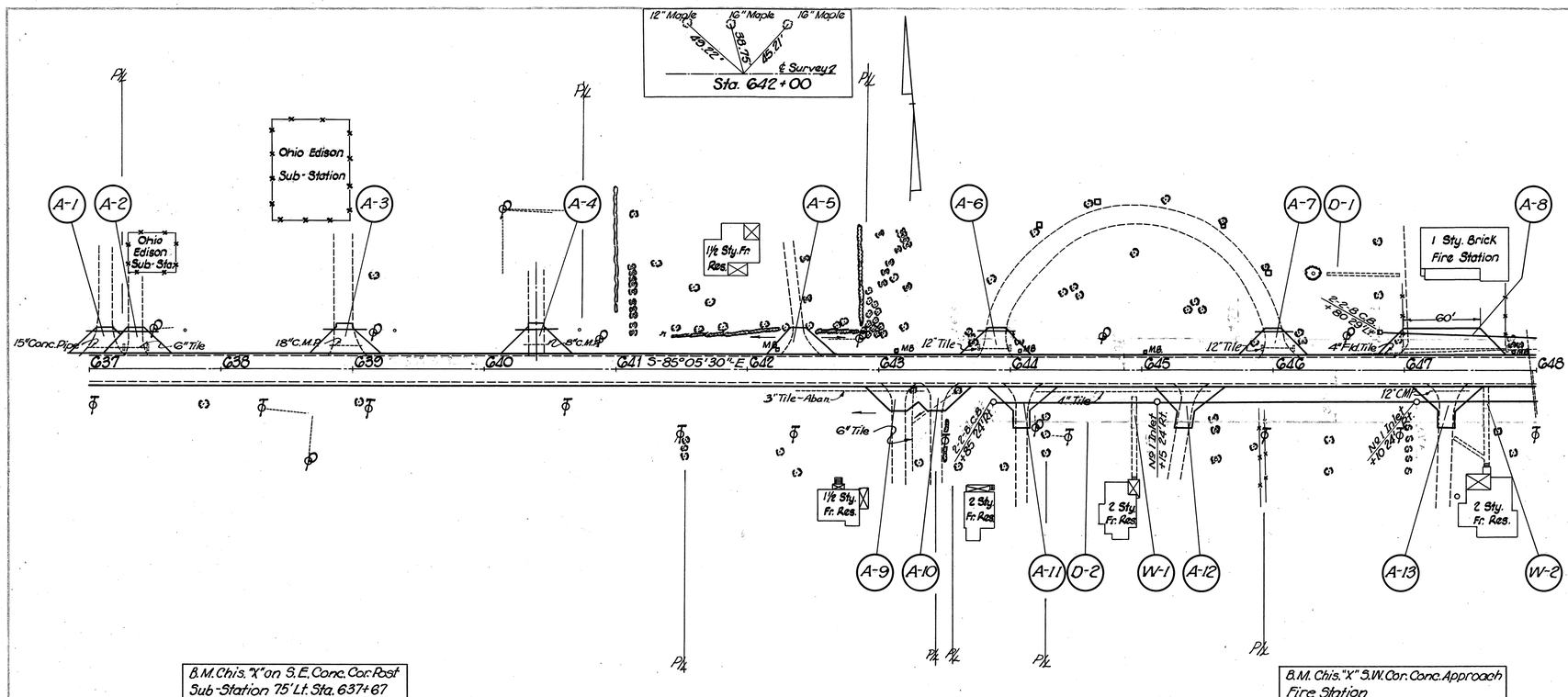
Excavation	1530	Cu. Yds.
Embankment	400	Cu. Yds.
Emb. + 25%	500	Cu. Yds.

Sta. 626+00 - Sta. 637+00

FED. RD DIVISION	STATE	PROJECT		
2	OHIO			

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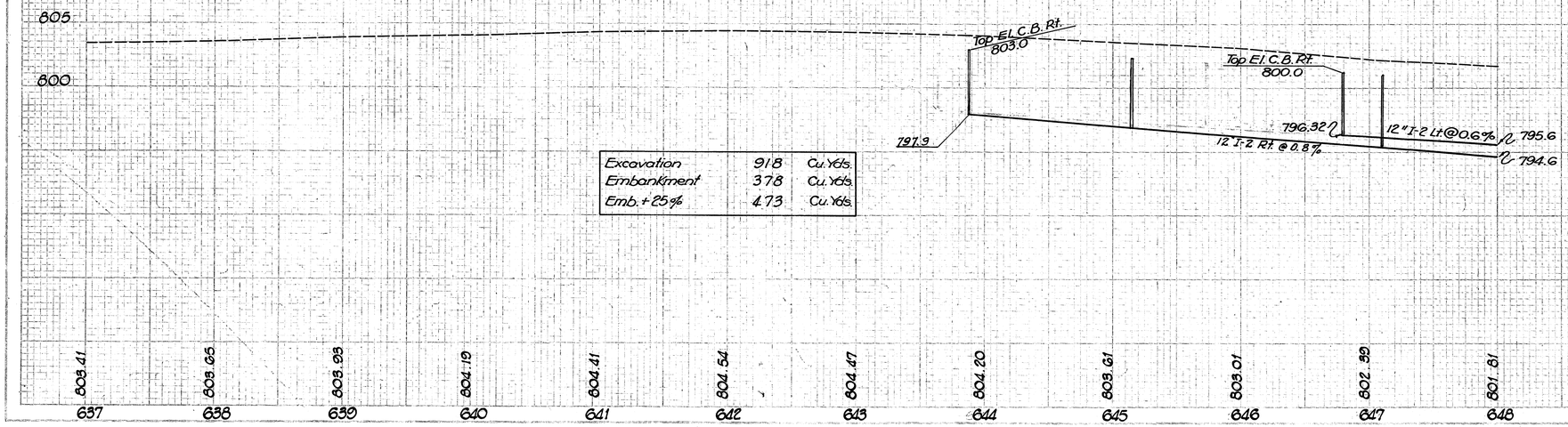


B.M. Chis. "X" on S.E. Conc. Cor. Post Sub-Station 75' Lt. Sta. 637+67 Elev. 802.61

B.M. Chis. "X" S.W. Cor. Conc. Approach Fire Station Elev. 802.54

Ref. Nº	Station		T-35 Asph. Conc. Surface Course Cu. Yds. 2"	B-119 Crushed Aggregate Base Course Cu. Yds. 5"	6"	7"	E-12 Pipe Remov. 15" & Under Lin. Ft.	I-1 Pipe for Drives Lin. Ft. 12"	E-12 Pipe Removed Lin. Ft. Over 15"		
A-1	637+09	Lt. L=20'			10.1		32	30			
A-2	637+36	Lt. L=20'	4.0			14.0		30			
A-3	638+96	Lt. L=23'	4.2			15.0		32	24		
A-4	640+40	Lt. L=23'			12.3			32			
A-5	642+41	Lt. L=20'	4.0	10.0							
A-6	643+89	Lt. L=20'	4.0	10.0			24	28			
A-7	646+00	Lt. L=20'	4.0	10.0			24	28			
A-8	647+30	Lt. L=20'	9.9			34.2					
A-9	643+16	Rt. L=20'	3.6	9.0							
A-10	643+46	Rt. L=20'	3.6	9.0							
A-11	644+10	Rt. L=32'	4.8	12.4							
A-12	645+38	Rt. L=32'	4.8	12.4							
A-13	647+33	Rt. L=32'	4.8	12.4			30				
	Totals		51.7	85.2	22.4	63.2	110	180	24		

Ref. Nº	Station		E-8 Remov. & Disp. Ex. Side Walk Sq. Ft.	I-2 Class A Storm Sewer Lin. Ft. 12"	I-8 Nº 1 Inlet	I-8 2-2'-6" C.B.	Units
W-1	644+94	Rt.	32				
W-2	647+67	Rt.	60				
O-1	643+63 - 648+00	Lt.		120		1	
O-2	643+85 - 648+00	Rt.		410	2	1	
	Totals		92	530	2	2	



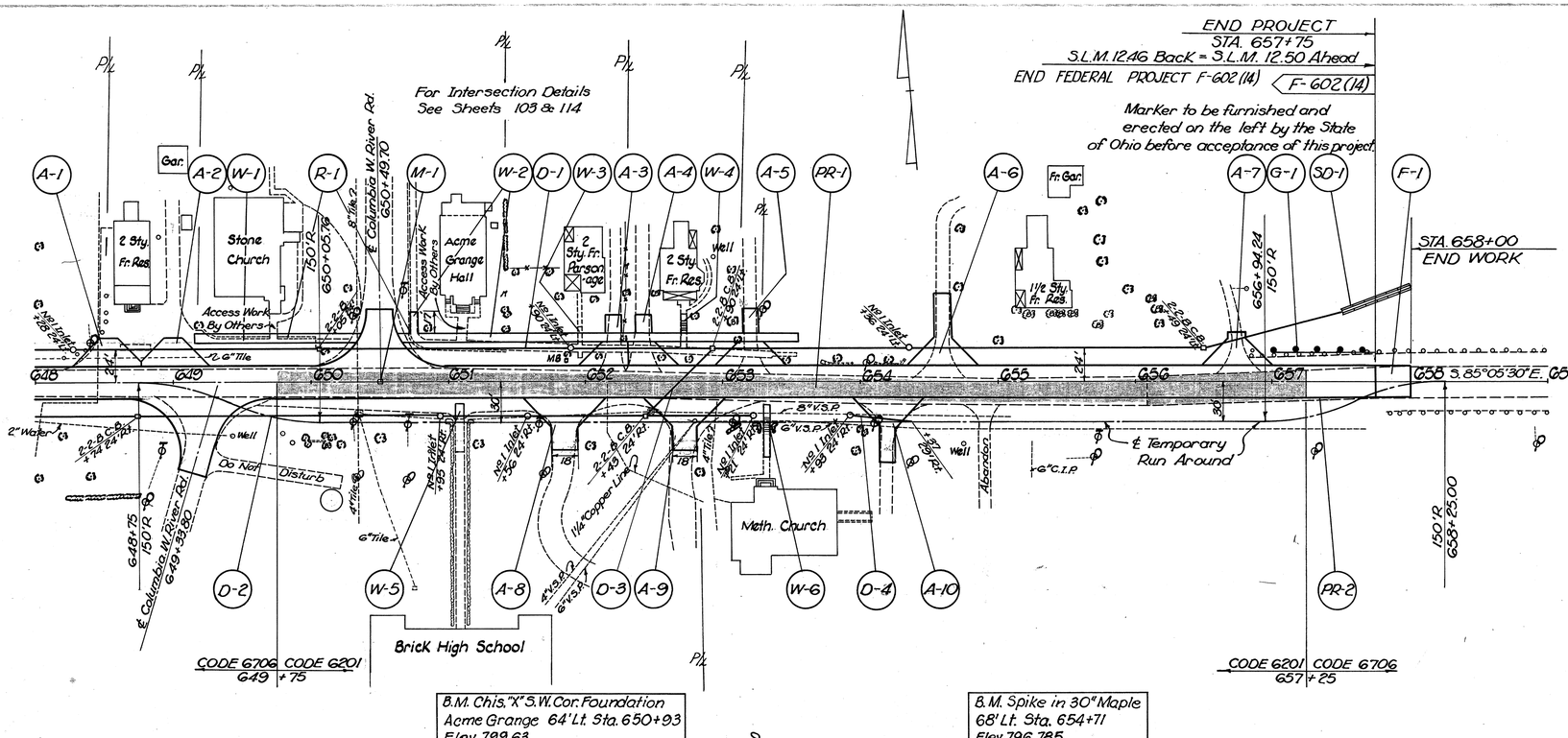
Excavation	918	Cu. Yds.
Embankment	378	Cu. Yds.
Emb. + 25%	473	Cu. Yds.

Sta. 637+00 - Sta. 648+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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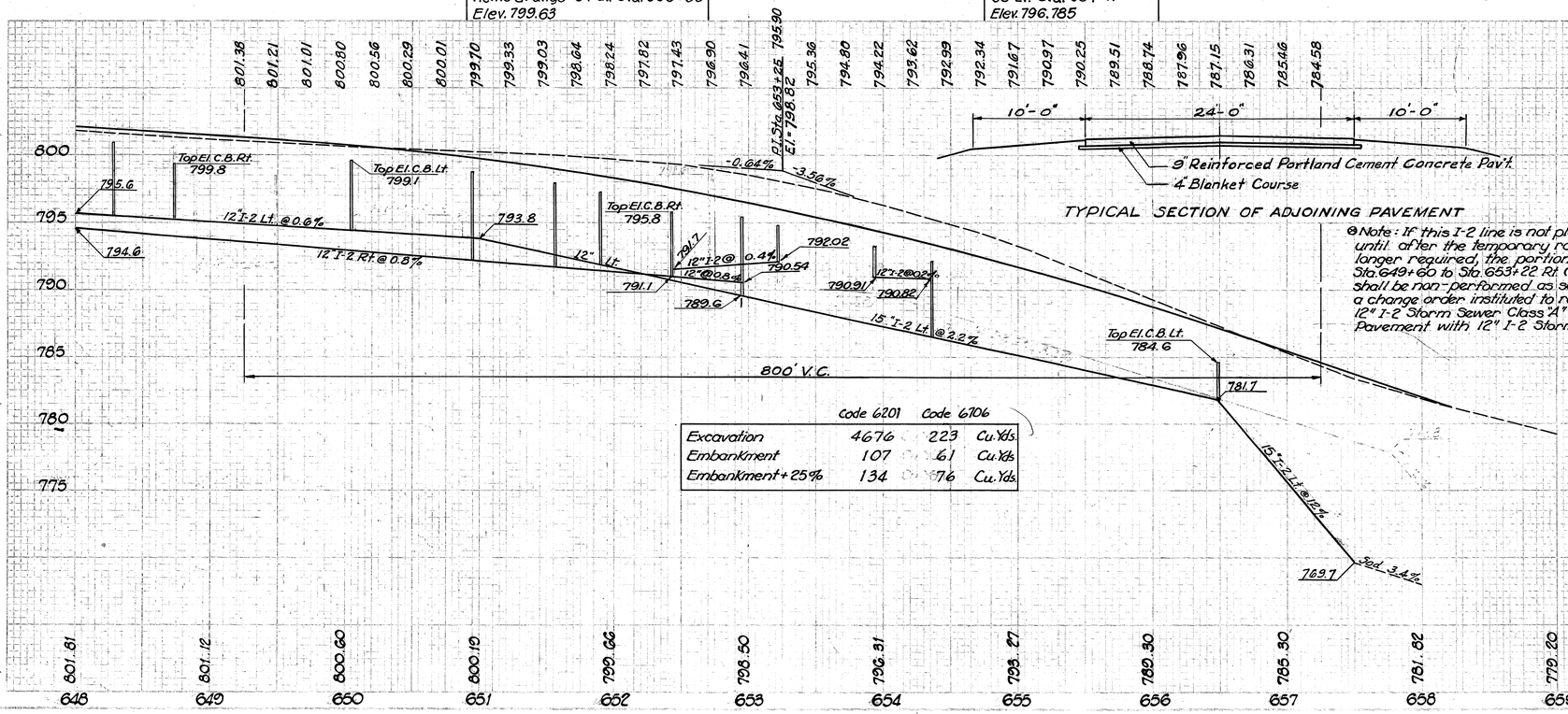


Ref. Nº	Station	T-35 Asph. Conc. Surf. Crse. Cu.Yds.	B-119 Crushed Aggregate Base Course Cu. Yds. 5"	6"	7"	E-8 Side Walk Rem. Sq.Ft.	Pav't. Rem. Sq.Yds.	I-13 Concrete Side Walk 4" Sq. Ft.	6"	Aggr. Side Walk 4" Sq.Ft.	Conc. Steps L.F.	B-35 2¾" Base Cu.Yds.	1¼" Lev.	0"Min. Level.	I-22 Sub-base Cu.Yds.
A-1	648+54 Lt. L-20'	3.9			13.8										
A-2	649+00 Lt. L-20'	3.9			13.8										
A-3	652+20 Lt. L-30'	4.7	11.9												
A-4	652+42 Lt. L-32'	4.9	12.3												
A-5	653+21 Lt. L-36'	5.1	13.1												
A-6	654+62 Lt. L-51'	6.2	16.0												
A-7	656+75 Lt. L-24'			12.7											
A-8	651+85 Rt. L-38'	6.7			23.9										
A-9	652+72 Rt. L-38'	6.7			23.9										
A-10	654+19 Rt. L-47'	6.0			21.5										
W-1	649+15-650+34 Lt.					144		714							
W-2	650+64-653+55 Lt.					2020		1488	360						
W-3	651+96.5 Lt.					12		12							
W-4	652+72.5 Lt.					27		27			27				
W-5	651+08.5 Rt.					159		156		72					
W-6	653+32 Rt.					126		75		48	41				
PR-1	649+75-657+25						1577								
PR-2	657+25-658+00						17								
F-1	657+75-658+00	2.0			0.9*							0.2	0.5	0.8	0.9
	Totals	50.1	53.3	12.7	97.8	2488	1594	2472	360	120	68	0.2	0.5	0.8	0.9

* 8" Thick for widening
° Proposed Sidewalk shall be 6" thick for approximately 20' @ drives.

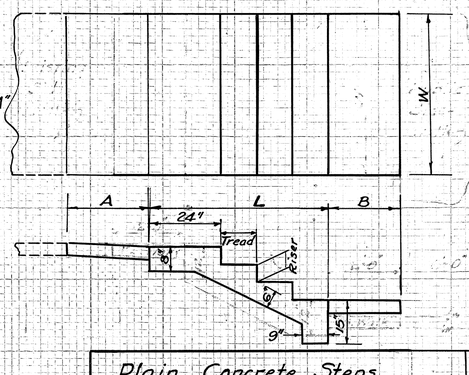
Ref. Nº	Station	I-2 Class A Strm. Sewer Std. Lin.Ft. 12"	15"	Under Pav't. Lin.Ft. 12"	I-8 Nº 1 Inlet Units	2'-8 C. Basin Units	Mon. Adjst. To Grade. Units	I-16 C. Basin Aban. Units	Manhole Aban. Units	I-15 Guard Rail Rebl't. Lin.Ft.	Guard Rail Rem. & Disp. Lin.Ft.	L-10 Sod-ding G' Wide Sq.Yds.	E-8 Rem. & Disp. Of Exist. Curb Lin.Ft.
G-1	656+86-657+82 Lt.									80	16		
D-1	648+00-657+50 Lt.	404	56	80	3	3							
D-2	648+00-653+21 Rt.	74		458	3	2		2	1				
D-3	652+43 Rt.-652+90 Lt.			68									
D-4	653+93-654+36 Rt.			42	1								
SD-1	657+50-658+00 Lt.											34	
M-1	650+49.70						1						
R-1	649+22-651+44 Lt.												159
	Totals	478	56	628	7	5	1	2	1	80	16	34	159

TYPICAL SECTION OF ADJOINING PAVEMENT



	Code 6201	Code 6706	
Excavation	4676	223	Cu.Yds.
Embankment	107	61	Cu.Yds.
Embankment + 25%	134	76	Cu.Yds.

⊛ Note: If this I-2 line is not placed until after the temporary road is no longer required, the portion from Sta. 649+60 to Sta. 653+22 Rt. (354 Ft.) shall be non-performed as set up and a change order instituted to replace the 12" I-2 Storm Sewer Class "A" Under Pavement with 12" I-2 Storm Sewer Class "A"



Plain Concrete Steps

Station	Side	W	L	Lin.Ft.	Tread	Rise	A	B
652+72.5	Left	4.5'	7'	27	12"	6"	4'	2'
653+32	Right	4.5'	12	41	15"	5"	16.5"	10.5

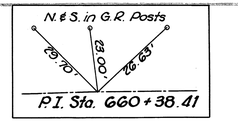
* Aggregate Walk

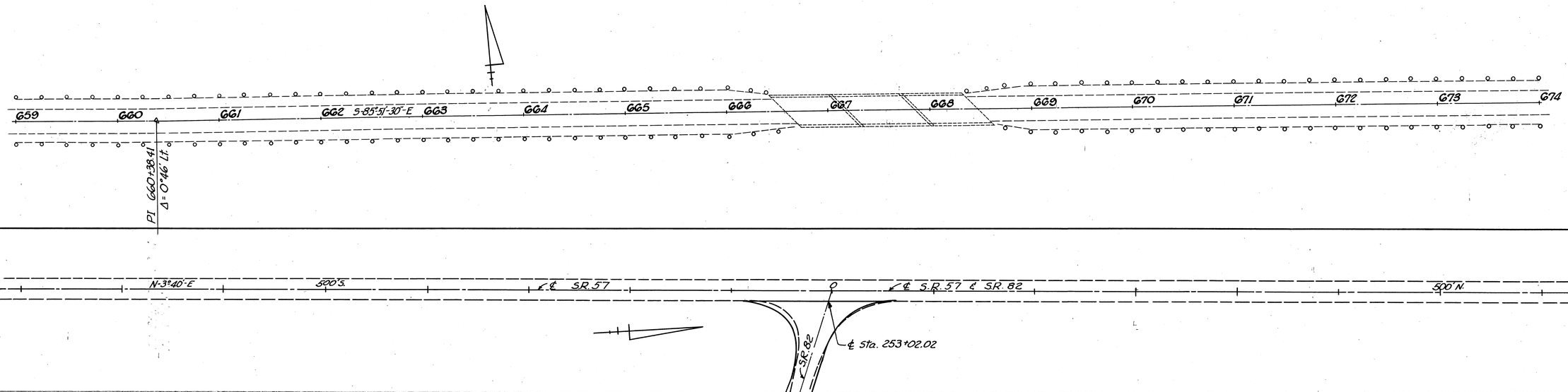
Sta. 648+00 - Sta. 659+00

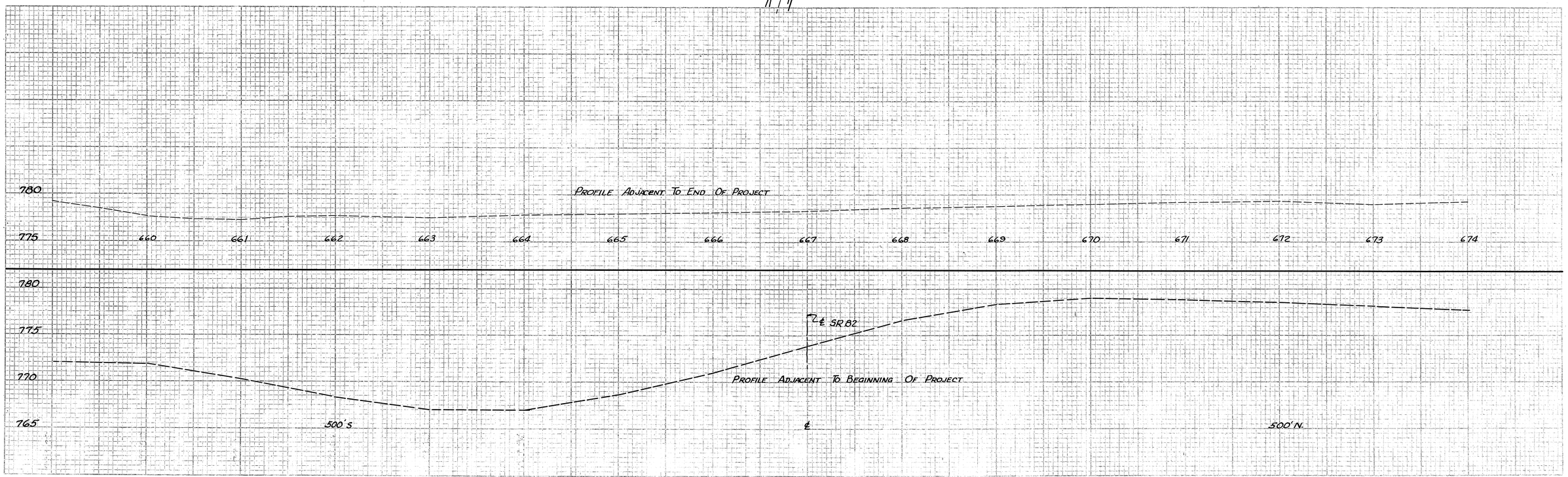
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

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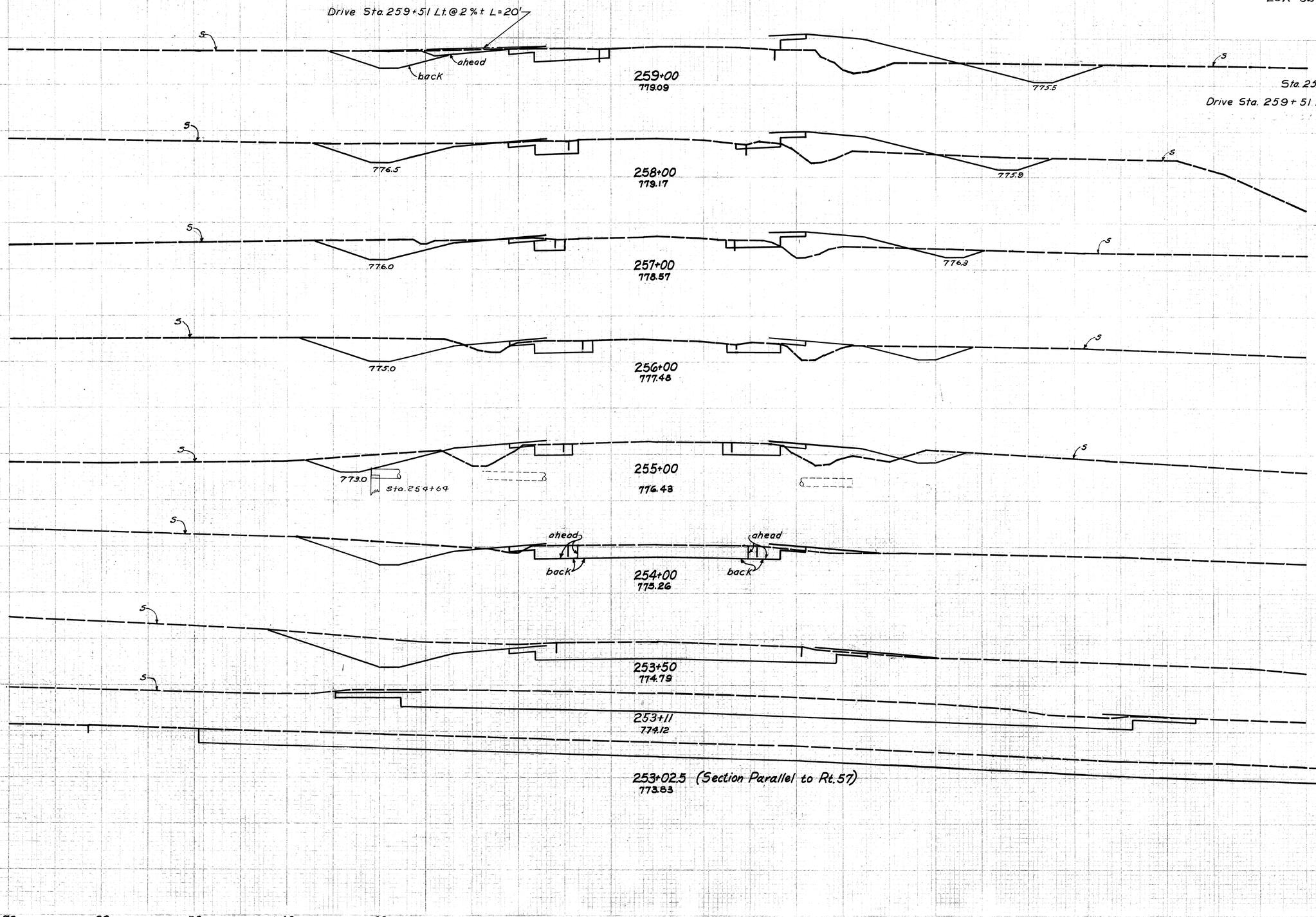




SUPPLEMENTAL ALIGNMENT

DIST. NO. DIVISION	STATE	PROJECT	TYPE FUNDS	46
2	OHIO			146

LOR-82-(4.79-12.47)



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta. 259+00 Ahead	31	36		
Back	48	36		
Drive Sta. 259+51 Lt.			3	0
			169	119
	43	28		
			144	85
	35	18		
			159	56
	51	12		
			156	70
	33	26		
			122	54
Ahead	33	3		
Back	64	3		
			157	3
			105	0
			190	0
			158	0
			56	0
			195	0

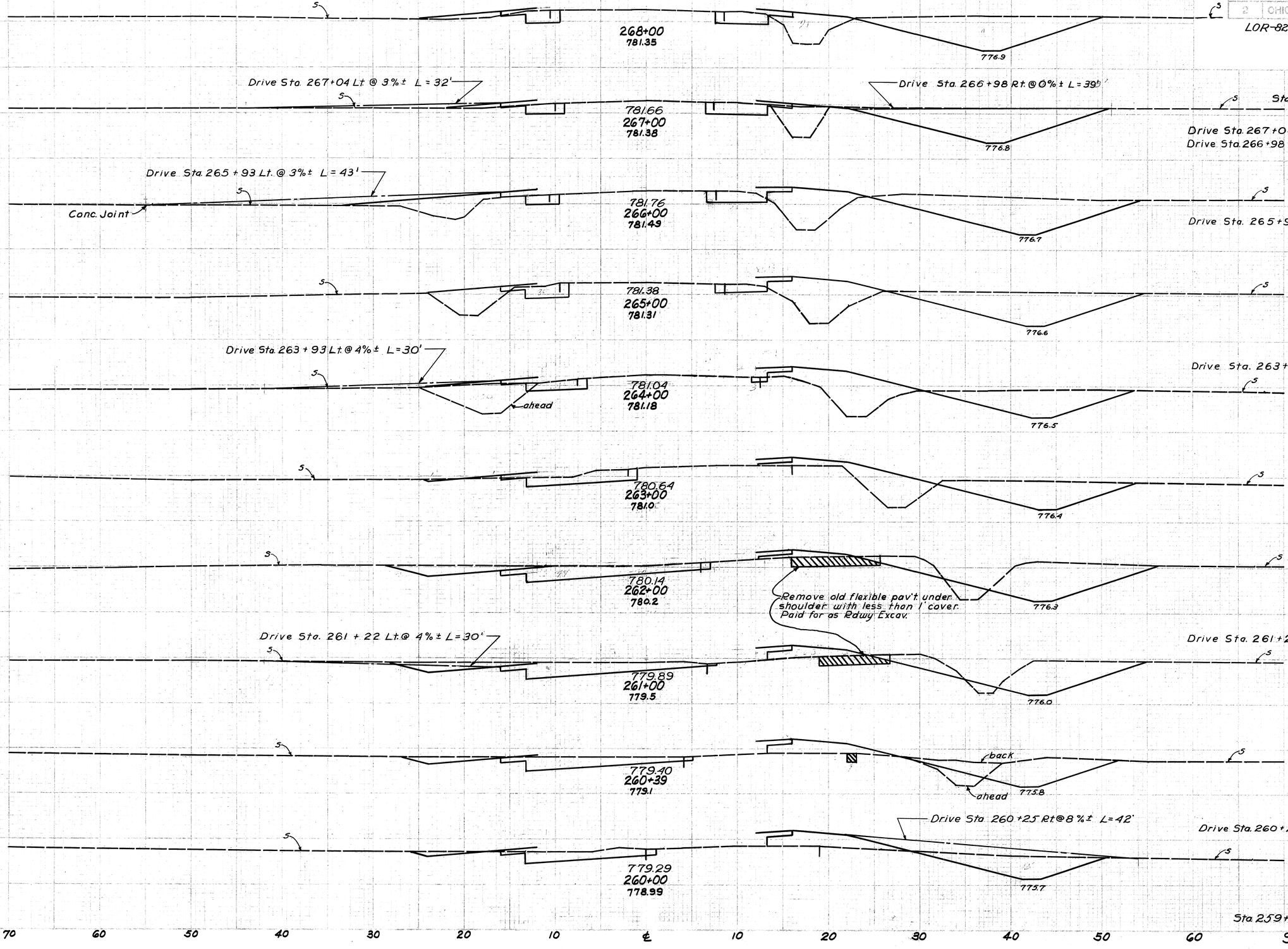
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

Sta. 253+02.5 - 259+00

REG. NO. DIVISION	STATE	PROJECT	TOTAL SHEETS
2	OHIO		

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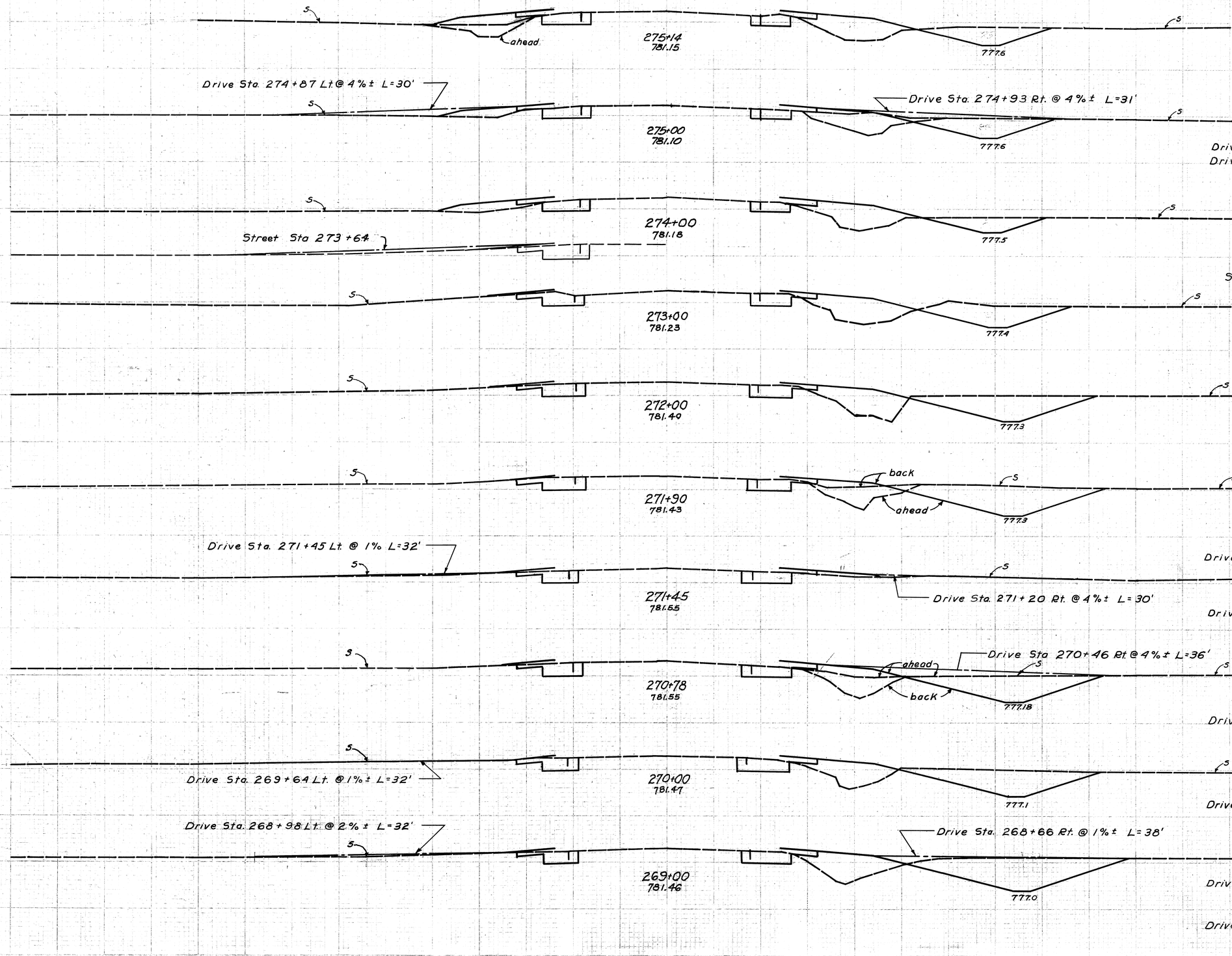


	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta. 268+00	68	21		
	70	16	256	69
Drive Sta. 267+04 Lt.			5	1
Drive Sta. 266+98 Rt.			1	0
			273	115
	80	47		
Drive Sta. 265+93 Lt.			3	2
			274	187
	68	54		
			209	215
Drive Sta. 263+93 Lt.			4	1
Ahead	45	62		
Back	45	39		
			185	131
	55	32		
			296	94
	105	19		
			352	70
Drive Sta. 261+22 Lt.			8	1
	85	19		
			155	45
Ahead	52	21		
Back	62	15		
			78	23
Drive Sta. 260+25 Rt.			1	7
	46	17		
			143	98
Sta. 259+00 Ahead	31	36		
Back	48	36		

SEC. NO.	STATE	PROJECT	TITLE
2	OHIO		

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	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta 275+14 Ahead	25	36		
Back	25	27		
			15	13
	31	22		
Drive Sta. 274+93 Rt.			1	1
Drive Sta. 274+87 Lt.			2	1
			96	89
	21	26		
			104	91
Street Sta. 273+64 Lt.			15	2
	35	23		
			154	85
	48	23		
			18	8
Ahead	51	16		
Back	5	3		
			51	5
Drive Sta. 271+45 Lt.			11	0
	10	3		
Drive Sta. 271+20 Rt.			5	0
			70	10
Ahead	46	5		
Back	46	19		
Drive Sta 270+46 Rt.			1	3
			132	52
	46	17		
Drive Sta. 269+64 Lt.			12	0
			193	72
	58	22		
Drive Sta. 268+98 Lt.			11	0
			233	80
Drive Sta. 268+66 Rt.			1	0
Sta 268+00	68	21		

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

Sta. 269+00 – 275+14

LOR-82-(4.79-12.47)

Drive Sta. 285+30 Lt. @ 7%± L=23'

285+00
782.31

780.2 | 779.5

284+00
782.62

779.9 | 779.2

Drive Sta. 282+52 Lt. @ 3%± L=32'

Drive Sta. 282+82 Rt. @ 3%± L=32'

283+00
782.58

779.6 | 779.0

282+00
782.61

779.3 | 778.8

281+00
782.62

779.0 | 778.6

280+00
782.77

778.7 | 778.4

279+00
782.32

778.4 | 778.2

Drive Sta. 278+28 Lt @ 5%± L=31'

278+00
781.66

778.1 | 778.0

277+00
781.39

777.5 | 777.8

Drive Sta. 275+55 Lt. @ 4%± L=30'

ditch ahead Sta. 276+30

276+00
781.28

776.5 | 777.7

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta 285+00	26	41		
			107	146
	32	38		
Drive Sta 285+30 Lt.			1	1
			161	128
Drive Sta 282+82 Rt.			1	0
	55	31		
Drive Sta 282+52 Lt.			1	1
			246	120
	78	34		
			322	133
	96	38		
			383	131
	111	33		
			376	120
	92	32		
			302	109
Drive Sta 278+28 Lt.			2	1
	71	27		
			226	102
	51	28		
			161	78
Sta 276+30 Ahead	73	32		
Back	24	32		
			27	36
	24	32		
			78	108
Drive Sta 275+55 Lt.			2	1
Sta 275+14 Ahead	25	36		
Back	25	39		

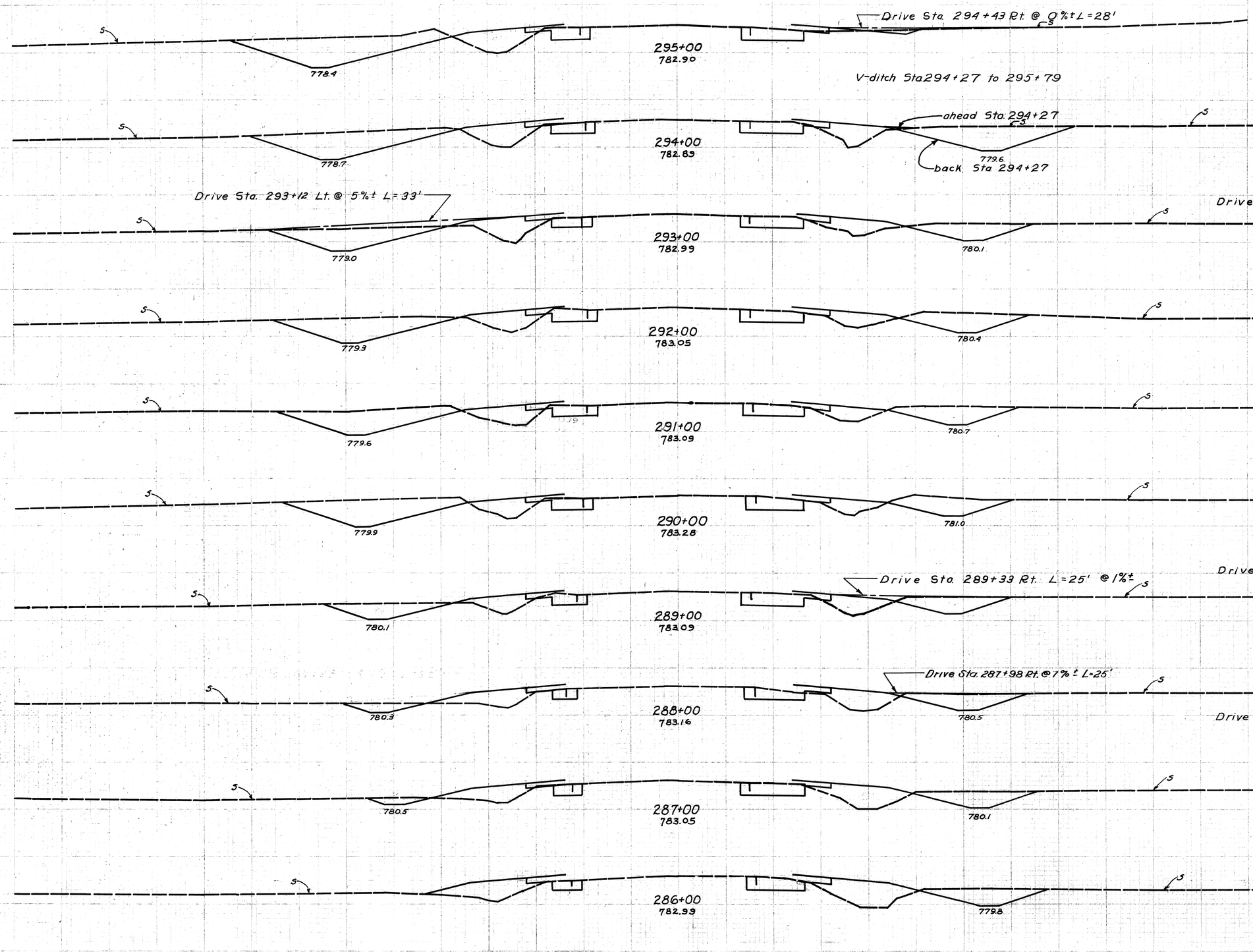
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

Sta. 276+00–285+00

FED. ROAD DIV. NO.	STATE	PROJECT	TYPE SERVICE	
5	OHIO			

50
146

LOR-82-(4.79-12.47)



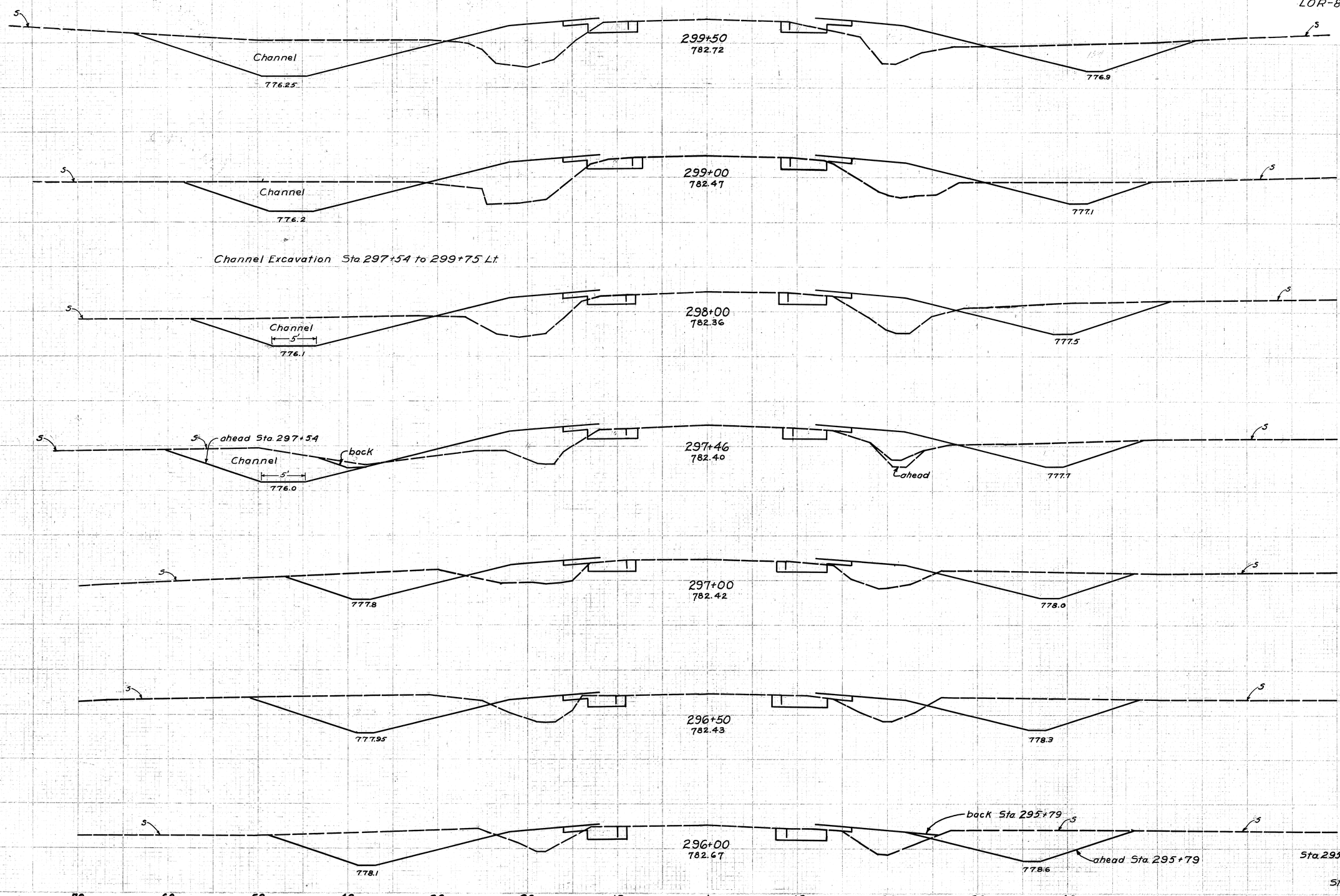
	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta. 295+00	57	13		
			139	51
Drive Sta. 294+43 Rt.			7	0
Sta 294+27 Ahead	46	25		
Back	73	25	73	25
Sta. 294+00	73	25		
			230	89
Drive Sta. 293+12 Lt.			1	2
	51	23		
			207	80
	61	20		
			222	72
	59	19		
			228	67
	64	17		
			191	65
Drive Sta. 289+33 Rt.			1	0
	39	18		
			124	81
	28	26		
Drive Sta. 287+98 Rt.			1	1
			100	102
	26	29		
			94	119
	25	35		
			94	141
Sta. 285+00	26	41		

Sta. 286+00 - 295+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

51
146

LOR-82-(4.79-12.47)



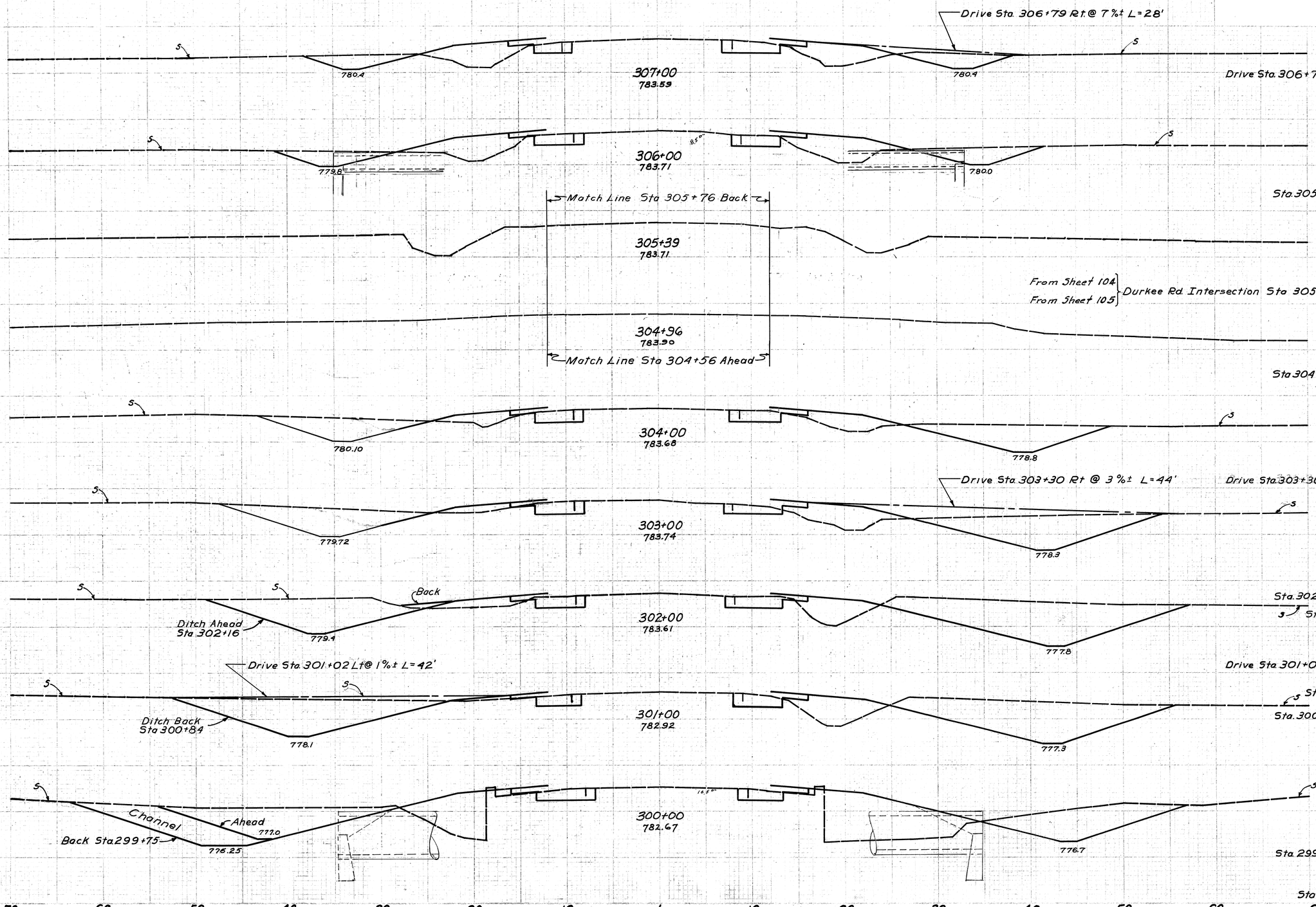
	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	46	83		
			76	159
	36	88		
			169	302
	55	75		
			84	141
Ahead	44	66		
Back	45	62		
			111	92
	85	46		
			196	75
	126	35		
			221	61
	112	31	87	24
Sta. 295+79 Ahead	112	31		
Back	65	31		
			179	64
Sta. 295+00	57	13		

Sta. 296+00 - 299+50

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

52
146

LOR-82-(4.79-12.47)



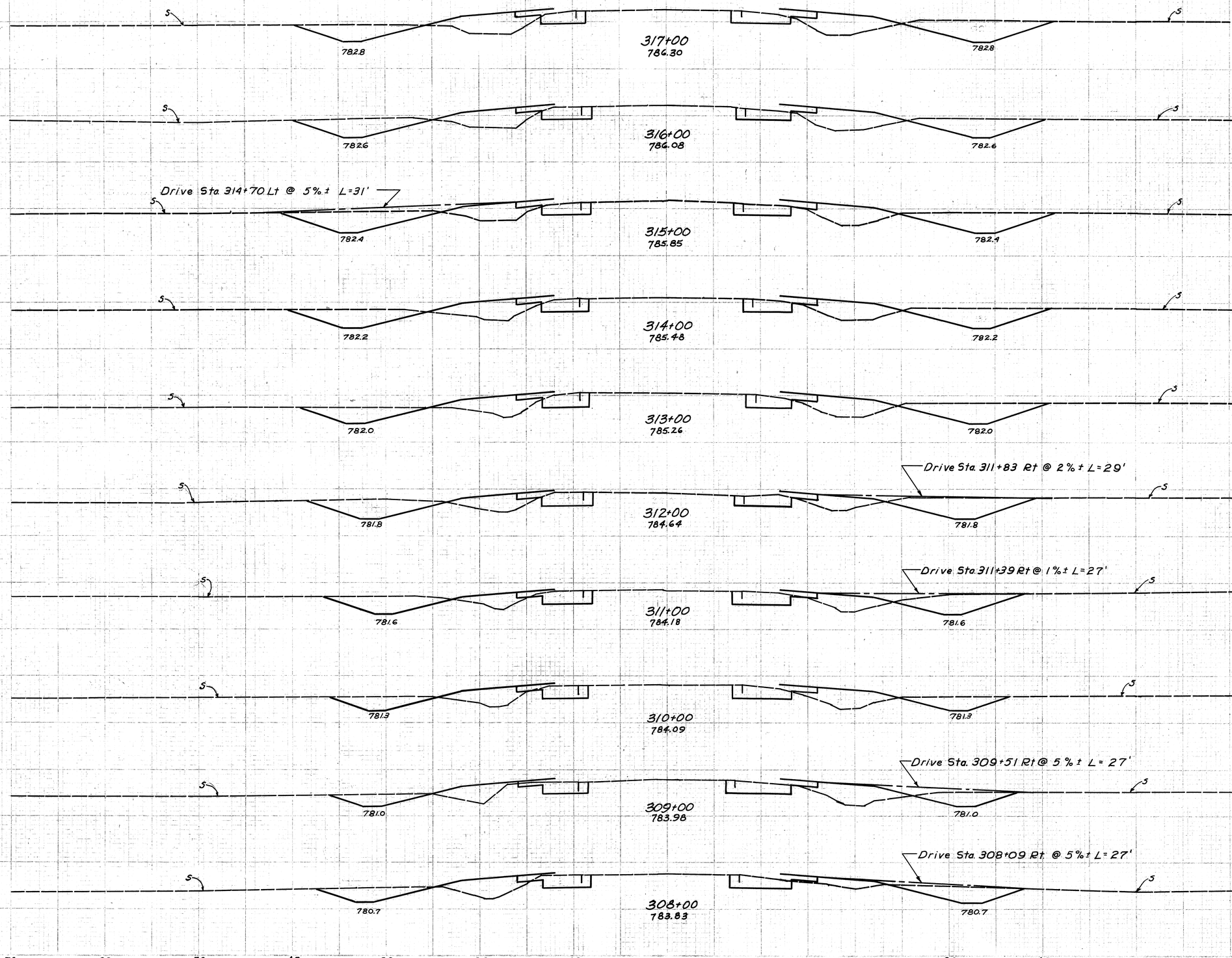
	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	96	95		
Drive Sta. 306+79 Rt.			1	1
			143	148
	41	45		
			37	40
Sta. 305+76 Ahead	43	45		
Back	0	0		
From Sheet 104 / From Sheet 105 — Durkee Rd. Intersection Sta 305+15.52			146 / 181	143 / 17
Sta 304+56 Ahead	0	0		
Back	72	19		
			151	39
	74	19		
			330	83
Drive Sta. 303+30 Rt.			1	2
	104	26		
			362	78
Sta. 302+16 Ahead	151	24		
Back	106	26	63	15
Sta. 302+00	106	26		
Drive Sta. 301+02 Lt.			1	1
Sta. 301+00	93	23	55	14
Sta. 300+84 Ahead	93	23		
Back	159	23		
			409	185
	104	96		
			96	89
Sta. 299+75 Ahead	104	96		
Back	56	96		
			47	83
Sta 299+50	46	83		

Sta. 300+00 – 307+00

DIST. NO. DIVISION	STATE	PROJECT	TOTAL SHEETS
2	OHIO		

53
146

LOR-82-(4.79-12.47)



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta. 317+00	48	37		
			180	130
	49	33		
			196	113
Drive Sta. 314+70 Lt.			1	1
	52	28		
			196	109
	49	31		
			174	113
	45	90		
			183	93
	54	20		
			187	72
Drive Sta. 311+83 Rt.			1	0
Drive Sta. 311+39 Rt.			1	1
	47	19		
			154	83
	36	26		
			128	94
Drive Sta. 309+51 Rt.			1	1
	33	25		
			131	78
Drive Sta. 308+09 Rt.			1	0
	38	17		
			137	96
Sta. 307+00	36	35		

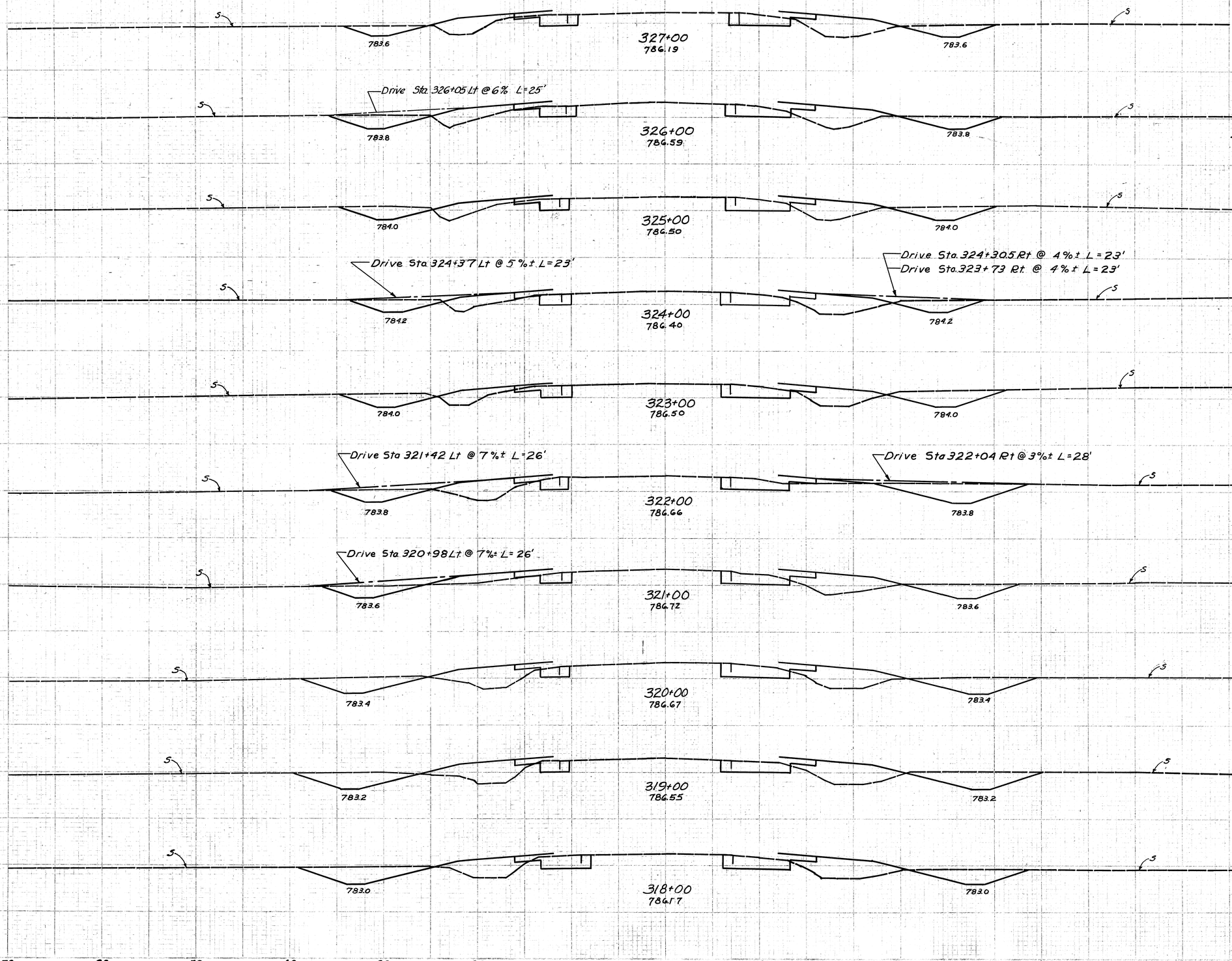
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

Sta. 308+00–317+00

FED. NO. DIVISION	STATE	PROJECT	TYPE PUNOS
2	OHIO		

54
146

LOR-82-(4.79-12.47)



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta. 327+00	26	27		
			104	96
	30	25		
Drive Sta. 326+05 Lt			1	1
			109	89
	29	23		
Drive Sta. 324+37 Lt.			1	1
			104	87
Drive Sta. 324+30.5 Rt.			1	1
	27	24		
Drive Sta 323+73 Rt.			1	1
			115	85
	35	22		
			137	69
Drive Sta. 322+04 Rt.			1	1
	39	15		
Drive Sta. 321+42 Lt.			1	1
			128	74
	30	25		
Drive Sta. 320+98 Lt.			1	1
			139	113
	45	36		
			163	133
	43	36		
			156	126
	41	32		
			165	128
Sta 317+00	48	37		

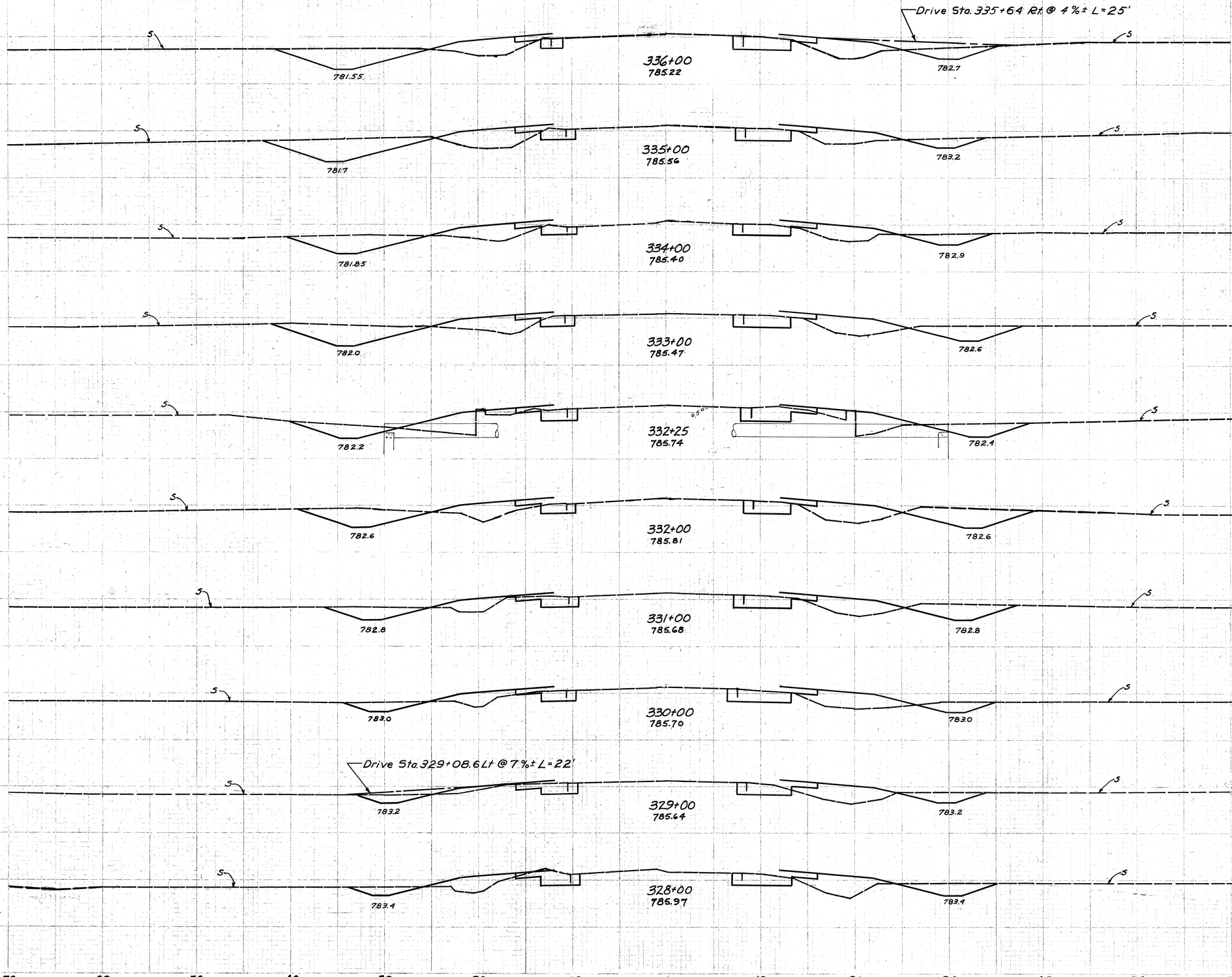
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

Sta. 318+00 – 327+00

FED. ROAD DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

55
146

LOR-82-(4.79-12.47)



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta 336+00	38	25		
			144	96
	40	27		
Drive Sta 335+64 Rt			1	1
			139	91
	35	22		
			146	91
	44	27		
			106	74
	32	26		
			35	25
	43	27		
			143	89
	34	21		
			104	83
	22	24		
			80	76
Drive Sta 329+08.6 Lt			1	1
	21	17		
			85	78
	25	25		
			94	96
Sta 327+00	26	27		

Sta. 328+00 – 336+00

END AREA		VOLUME	
CUT	FILL	CUT	FILL
69	38		
		241	137
61	36		
		4	1
		198	131
		4	1
		4	1
46	35		
		176	141
49	41		
		72	133
16	79		
		44	84
44	35		
		169	126
47	33		
		1	1
		167	109
43	23		
		150	89
Sta 336+00	38	25	

Drive Sta. 343+36 Rt.

Drive Sta. 342+54 Rt.

Drive Sta. 341+49 Rt.

Drive Sta. 337+70.5 Lt.

Drive Sta 343+36 Rt. @ 1% ± L=36'

Drive Sta. 342+54 Rt. @ 4% L=30'

Drive Sta. 341+49 Rt. @ 5 % ± L=30'

Drive Sta. 337+70.5 Lt. @ 4 % ± L=31'

343+00
785.36
781.8
781.8

342+00
785.32
781.6
781.6

341+00
784.86
781.4
781.4

340+00
784.66
781.2
781.2

339+40
785.27

339+00
785.01
781.1
781.5

338+00
784.76
781.25
781.9

337+00
785.10
781.4
782.3

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

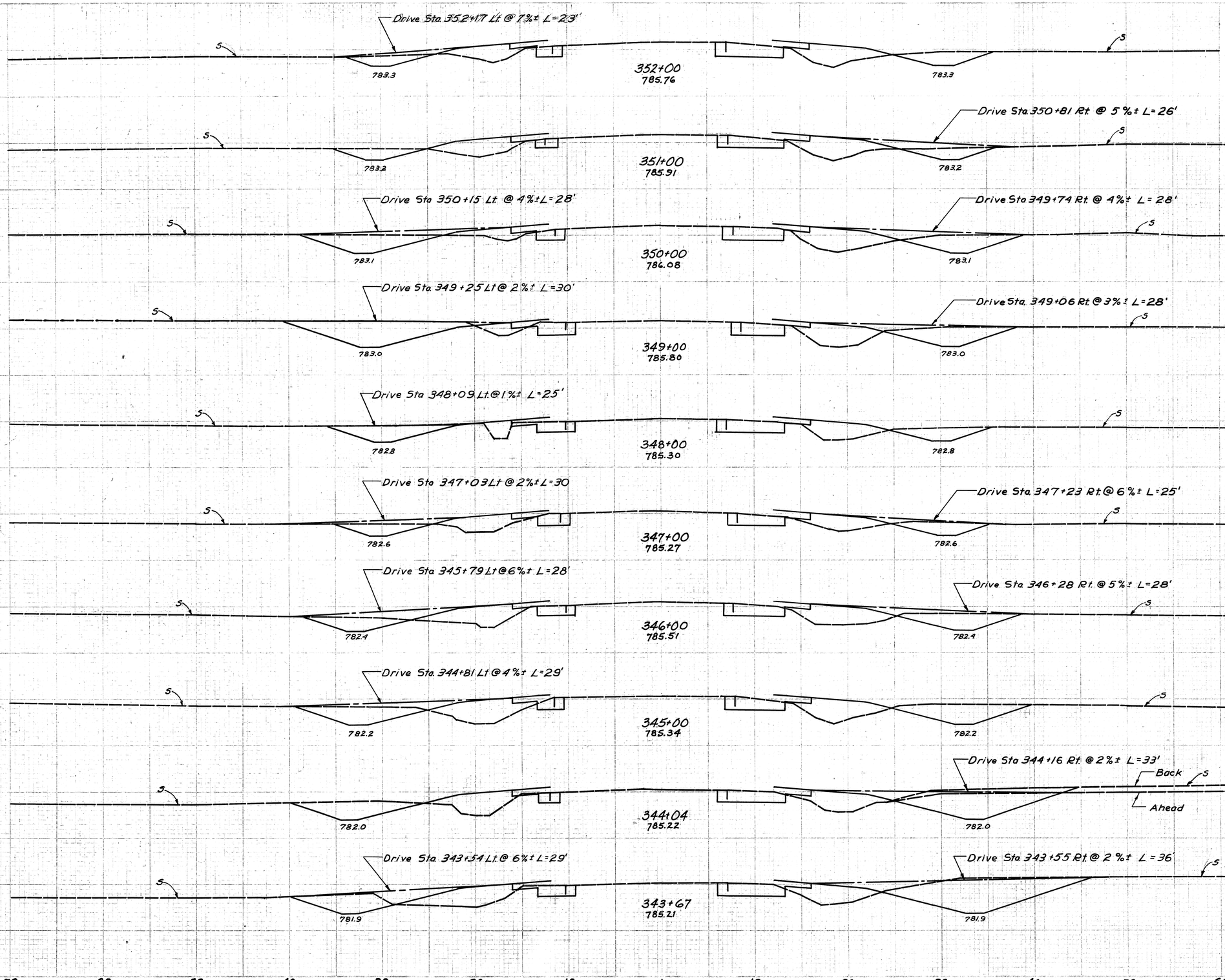
Sta. 337+00—343+00

END BID DIVISION	STATE	PROJECT	TYPE WORK
2	OHIO		

56
146

LOR-82-(4.79-12.47)

LOR-82-(4.79-12.47)



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Drive Sta 352+17 Lt.			1	1
Sta. 352+00	25	26		
	25	31	93	106
Drive Sta. 350+81 Rt.			1	1
			131	106
Drive Sta. 350+15 Lt.			1	1
	46	26		
Drive Sta. 349+74 Rt.			1	1
Drive Sta. 349+25 Lt.			1	0
			204	83
Drive Sta. 349+06 Rt.			1	1
	64	19		
			189	67
Drive Sta. 348+09 Lt.			2	0
	38	17		
			120	74
Drive Sta. 347+23 Rt.			1	0
Drive Sta. 347+03 Lt.			1	1
	27	23		
			119	104
Drive Sta. 346+28 Rt.			1	1
	37	33		
Drive Sta. 345+79 Lt.			1	2
			154	124
	46	34		
Drive Sta 344+81 Lt.			1	2
			181	116
Drive Sta. 344+16 Rt.			1	1
Ahead	53	29		
Back	62	29		
			85	77
	76	32		
Drive Sta. 343+55 Rt.			1	1
Drive Sta. 343+54 Lt.			1	2
			180	87
Sta. 343+00	69	38		

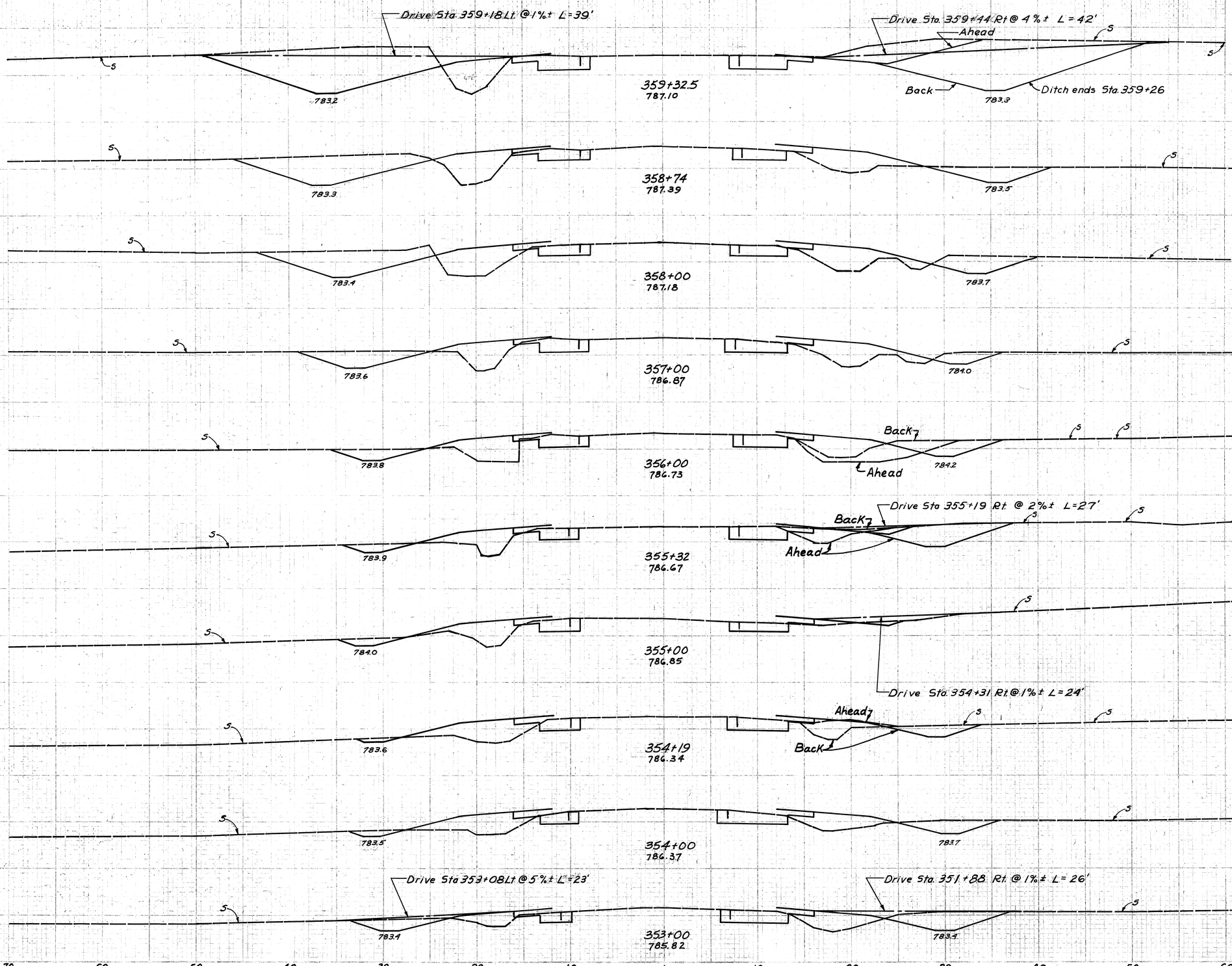
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

Sta. 343+67—352+00

FED. ROD. DIVISION	STATE	PROJECT	TYPE - FUNDS
2	OHIO		

58
146

LOR-82-(4.79-12.47)



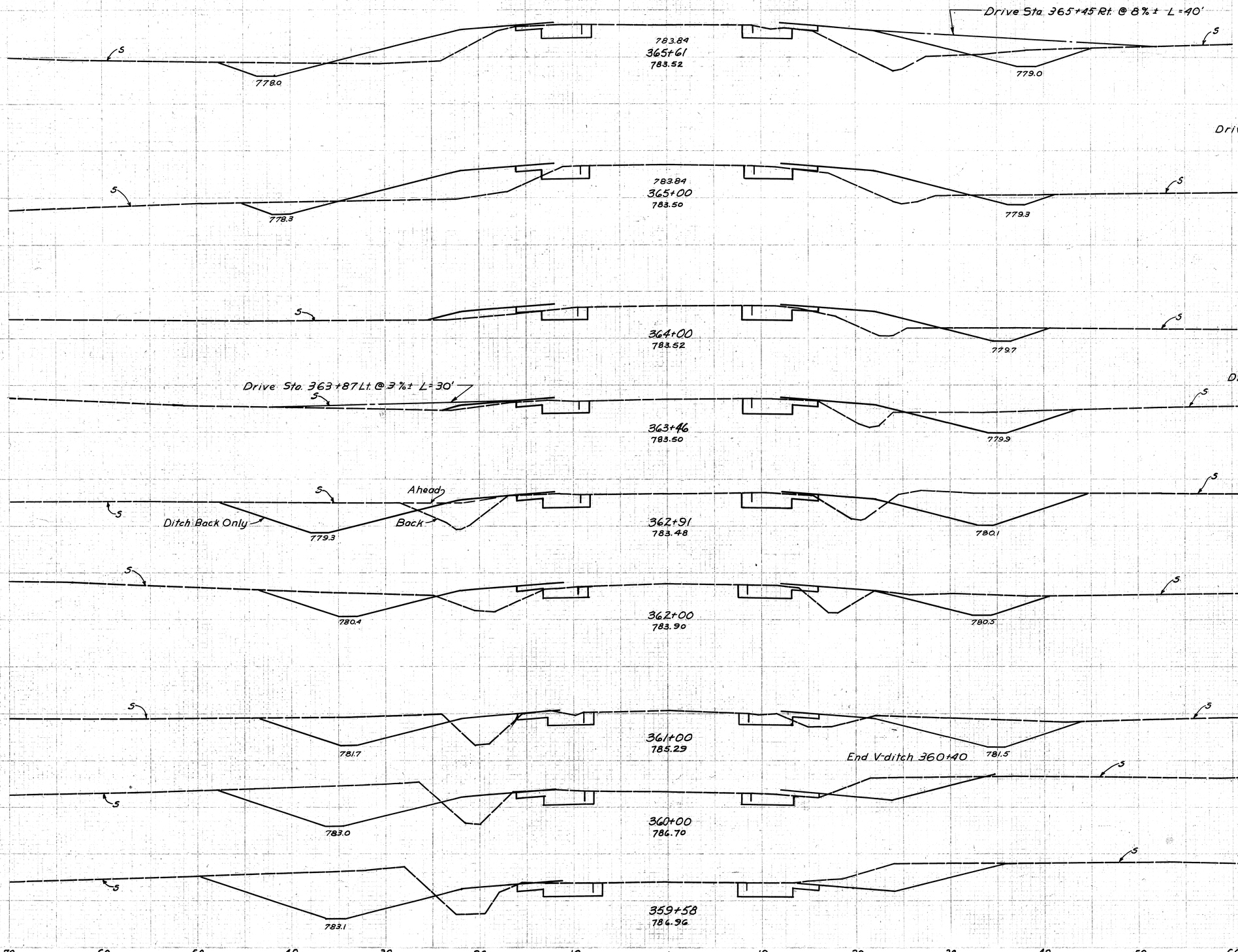
	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Drive Sta. 359+44 Rt.			14	0
Sta. 359+26 Ahead	121	17		
Sta. 359+26 Back	206	17	1	0
Drive Sta 359+18 Lt.			263	54
	67	39		
			174	111
	60	42		
			176	144
	35	36		
			113	144
Ahead	26	42		
Back	32	30		
			86	63
Ahead	36	20		
Back	17	15		
			18	18
Drive Sta. 355+19 Rt.			1	0
	14	15		
			42	54
Drive Sta 354+31 Rt.			1	1
Ahead	14	21		
Back	22	30		
			16	22
	23	33		
			107	96
Drive Sta. 353+08 Lt.			1	0
	35	19		
			111	83
Drive Sta 351+88 Rt.			1	1
Sta 352+00	25	26		

Sta. 353+00—359+32.5

FED. RD. DIVISION	STATE	PROJECT	SHT. NO.
2	OHIO		

59
146

LOR-82-(4.79-12.47)

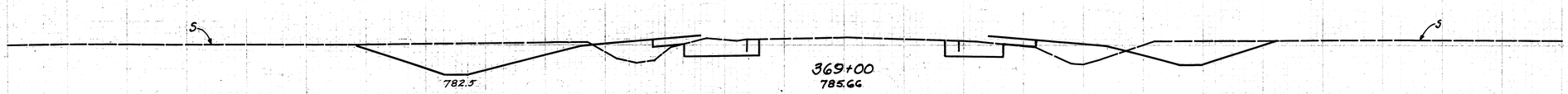


END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL	
39	66			
		1	9	Drive Sta 365+45 Rt.
		73	153	
25	69			
		91	172	
24	24			
		63	38	
		6	1	Drive Sta. 363+87 Lt.
39	14			
		101	26	
				Ahead
				Back
60	12			
101	28			
		268	97	
58	30			
		267	91	
86	19			
		348	61	
102	14			
		182	23	
132	15			
		150	19	
				Sta. 359+26
121	17			

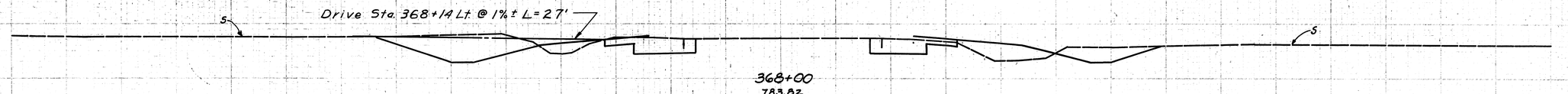
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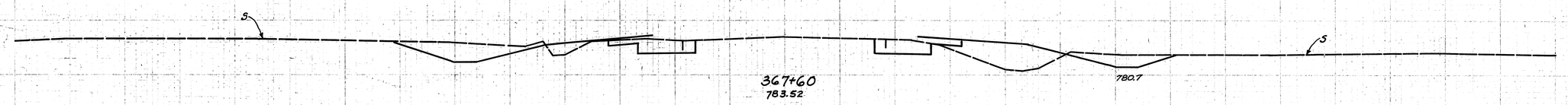
Sta. 359+58 – 365+61

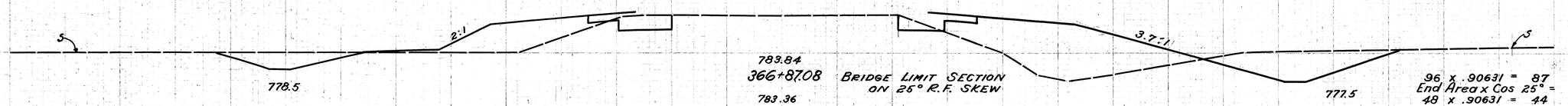
LOR-82-(4.79-12.47)

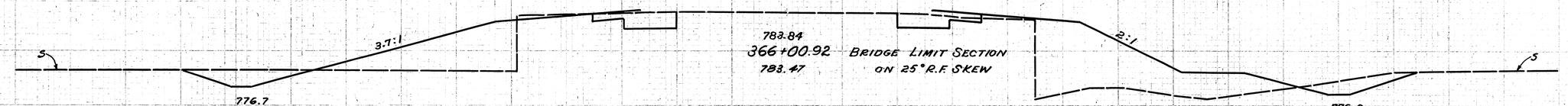


	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	61	19		
			202	59
Drive Sta. 368+14 Lt.			1	0
	48	13		
			150	63
	33	21		
			104	146
	44	87		
ESTIMATED SPILL-THRU EMBANKMENT — SEE SHEET No. 115			0	44
	31	116		
			52	135
Sta 365+61	39	66		





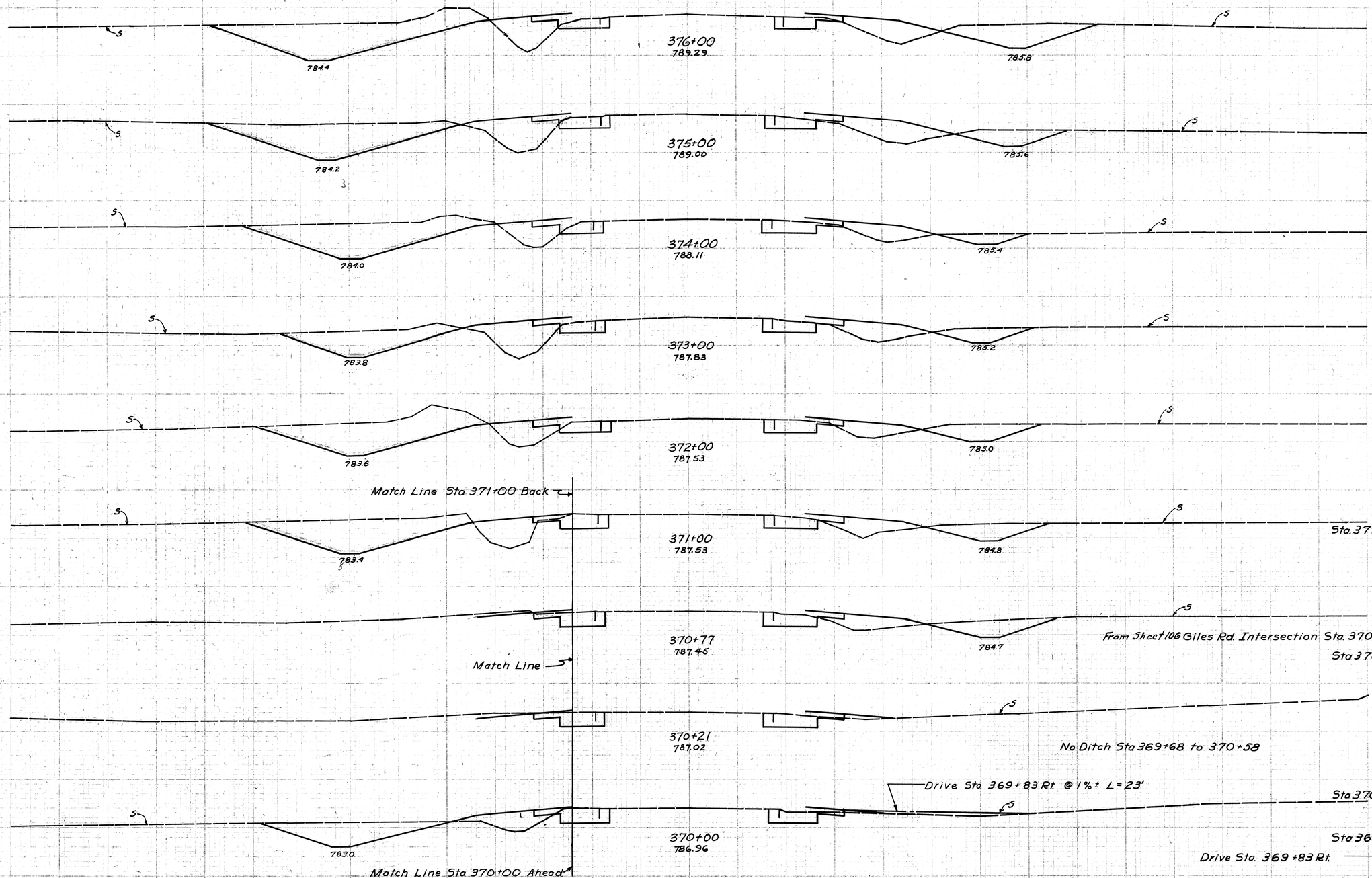




70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

Sta. 366+00-369+00

LOR-82-(4.79-12.47)



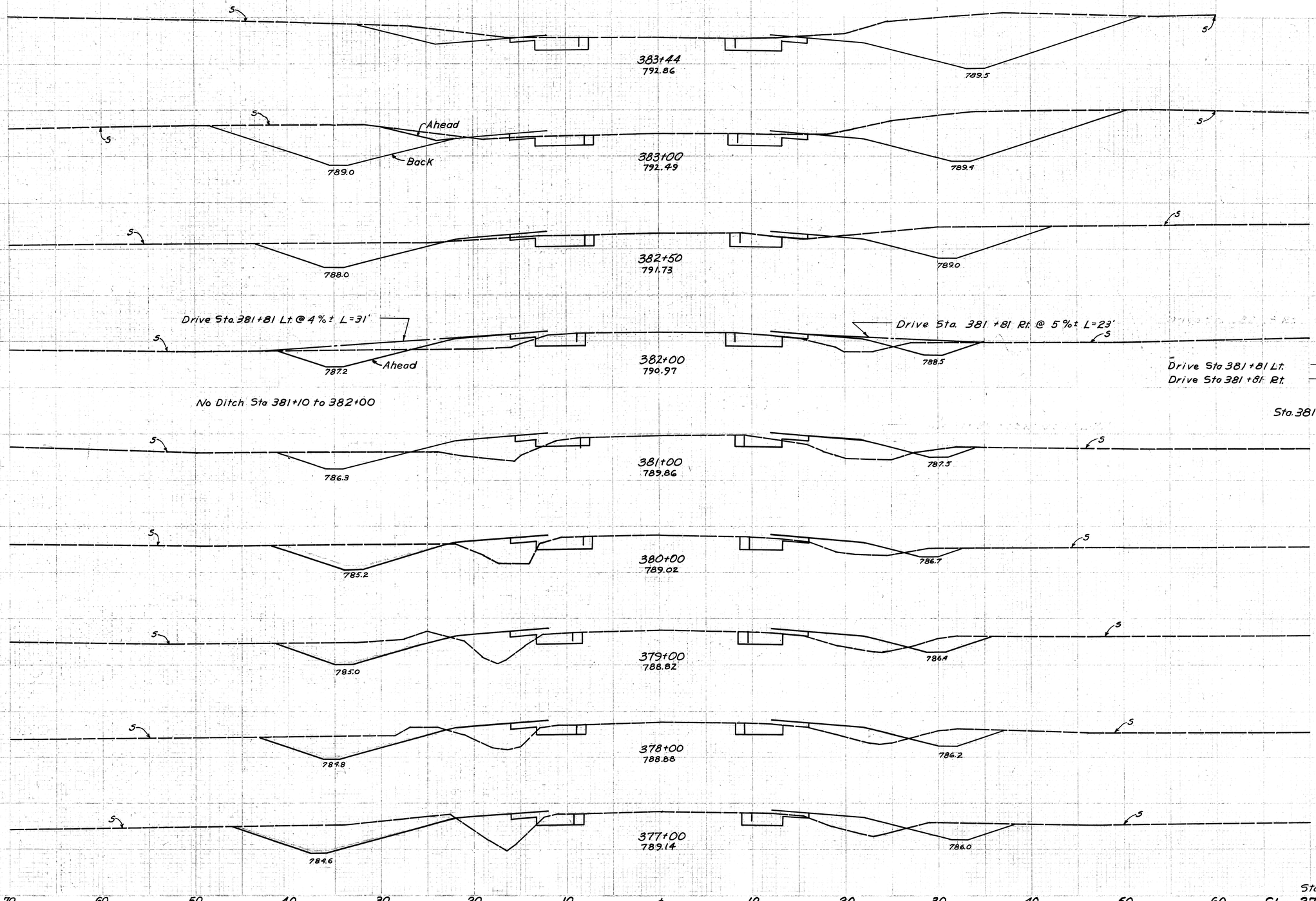
END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL	
96	30			
		311	128	
72	39			
		259	115	
68	23			
		213	106	
47	34			
		226	104	
75	22			
		270	89	
				Sta. 371+00 Ahead 71 26
				Back 25 11
		21	9	
24	11			
		17	8	
		36	48	From Sheet 106 Giles Rd. Intersection Sta. 370+63.65 Lt.
				Sta 370+58 Ahead 24 11
				Back 11 1
		15	2	
11	1			
		9	1	
				Sta 370+00 Ahead 11 0
				Back 42 12
		50	14	
				Sta 369+68 Ahead 42 12
				Back 61 19
		10	0	Drive Sta. 369+83 Rt.
		154	50	
				Sta 369+00 61 19

Sta. 370+00 — 376+00

FED. ROAD DESIGNATION	STATE	PROJECT	TYPE WORK
2	OHIO		

62
146

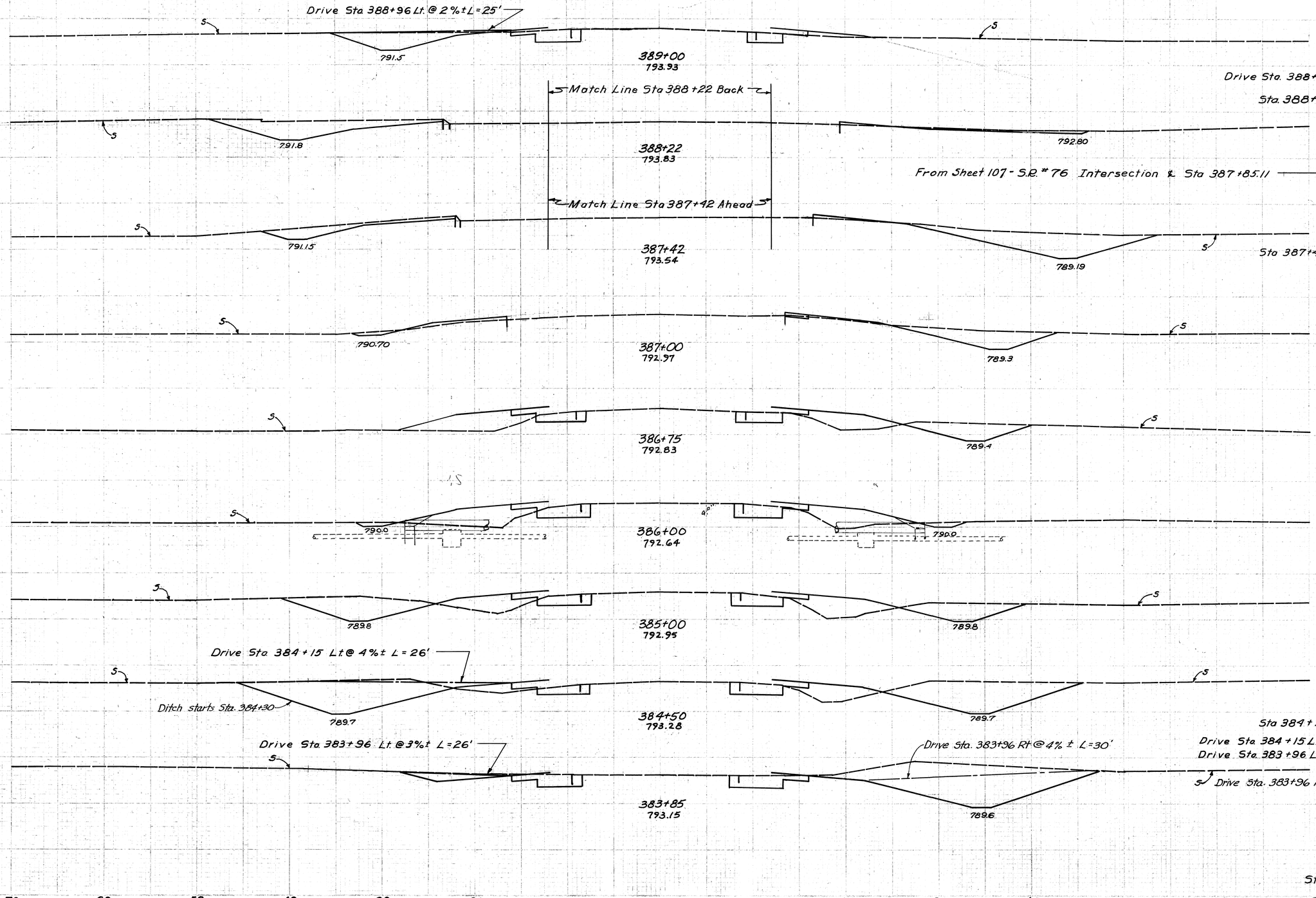
LOR-82-(4.79-12.47)



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	139	0		
			201	1
Ahead	107	1		
Back	172	1		
			238	3
	85	2		
			111	22
Ahead	35	22		
Back	21	22		
Drive Sta 381+81 Lt.			1	1
Drive Sta 381+81 Rt.			1	1
			55	104
Sta. 381+10 Ahead	12	40		
Back	26	40		
			10	15
	26	40		
			113	131
	37	31		
			150	113
	44	30		
			169	107
	47	28		
			202	111
	62	32		
			293	115
Sta 376+00	96	30		

Sta. 377+00 – 383+44

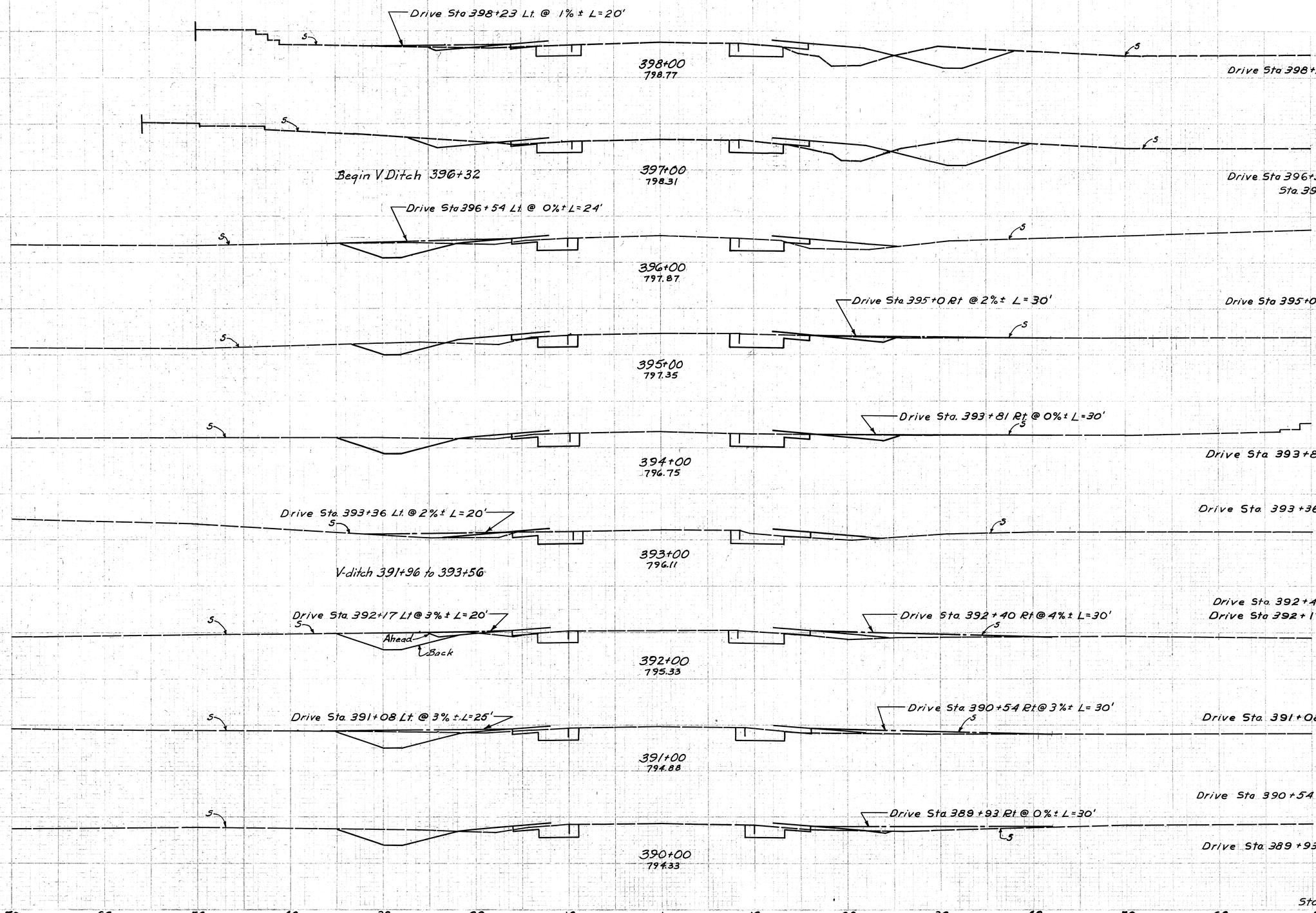
LOR-82-(4.79-12.47)



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	28	2		
			85	5
Drive Sta. 388+96 Lt.			1	0
Sta. 388+22 Ahead	31	2		
Back	0	0		
From Sheet 107 - S.P. # 76 Intersection ℄ Sta 387+85.11			106	8
Sta 387+42 Ahead	0	0		
Back	53	2		
			59	5
	23	4		
			23	19
	26	36		
			60	106
	17	40		
			131	133
	54	32		
			147	46
	105	17		
			78	13
Sta 384+30 Ahead	105	17		
Back	54	17	126	14
Drive Sta 384+15 Lt			0	0
Drive Sta. 383+96 Lt.			6	0
			97	0
Drive Sta. 383+96 Rt			1	0
			179	0
Sta 383+44	139	0		

DIST. NO.	STATE	PROJECT	SHEET NO.
2	OHIO		64 / 146

LOR-82-(4.79-12.47)



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	29	16		
Drive Sta 398+23 Lt.			2	0
			122	52
	37	12		
			88	28
Drive Sta 396+54 Lt.			1	0
Sta. 396+32 Ahead	37	12		
Back	24	8		
			32	11
	24	8		
			85	22
Drive Sta 395+00 Rt.			7	0
	22	4		
			98	9
	31	1		
Drive Sta 393+81 Rt.			25	0
			81	9
Drive Sta 393+36 Lt			2	1
	13	4		
			44	15
Drive Sta 392+40 Rt.			2	0
Drive Sta 392+17 Lt.			5	0
Ahead	11	4		
Back	26	4		
			94	11
Drive Sta 391+08 Lt.			1	0
	25	2		
			89	9
Drive Sta 390+54 Rt.			11	0
	23	3		
Drive Sta 389+93 Rt.			4	1
			94	9
Sta 389+00	28	2		

Sta. 390+00–398+00

65
146

LOR-82-(4.79-12.47)

408+00
800.76
798.2
798.0

Drive Sta. 407+12 Lt @ 0%± L=22'
Drive Sta. 406+82 Rt. @ 8%± L=20'

407+00
800.81
798.4

No Ditch Sta. 406+60 to 407+60

406+00
800.06
798.6

Drive Sta 404+52 Lt @ 2%± L=25'

405+00
801.08
798.6

404+00
801.12
798.3

Drive Sta. 403+45 Lt. @ 6%± L=22'

403+00
801.04
798.0

402+00
800.71
797.7

V-ditch Sta 400+73 to 401+63

Drive Sta 401+43 Lt. @ 0%± L=20'

401+00
800.22
797.4

400+00
799.71
797.0

Drive Sta 399+32 Lt. @ 1%± L=20'

End V-ditch Sta. 399+52

399+00
799.33
796.5

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	56	12		
Drive Sta. 407+12 Lt.			2	0
Corrected for Drive Lt.			135	33
	33	6		
Drive Sta. 406+82 Rt.			2	0
			141	28
	43	9		
			144	33
	36	9		
			28	7
Sta. 404+79 Ahead	36	9		
Back	16	12		
Drive Sta. 404+52 Lt.			4	0
			47	35
	16	12		
			9	7
Sta. 403+85 Ahead	16	12		
Back	27	19		
Drive Sta. 403+45 Lt.			1	0
			85	60
	27	19		
			120	61
	38	14		
Drive Sta. 401+43 Lt.			5	0
			128	48
	31	12		
			148	43
	49	11		
Drive Sta. 399+32 Lt.			5	0
			154	46
	34	14		
			117	56
Sta 398+00	29	16		

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

Sta. 399+00-408+00

LOR-82-(4.79-12.47)

416+00
801.14

415+74
801.32
Back 3:1
Ahead
Ahead
Back

Drive Sta. 414+86 Lt. @ 8% ± L=22'
415+00
801.76
4:1

414+00
802.54

V-ditch Sta. 412+56 to 413+14
Drive Sta. 412+61 Lt. @ 3% L=20'
413+00
802.57
799.8

412+00
802.08
799.3

V-ditch Sta. 410+56 to 411+74
Drive Sta 410+75 Lt @ 2% ± L=20'
411+00
801.35
798.5

410+00
800.73
797.5

797.7
409+72
800.65
796.7
Drive Sta. 409+32 Lt @ 1% ± L=22'
409+00
800.70
797.5

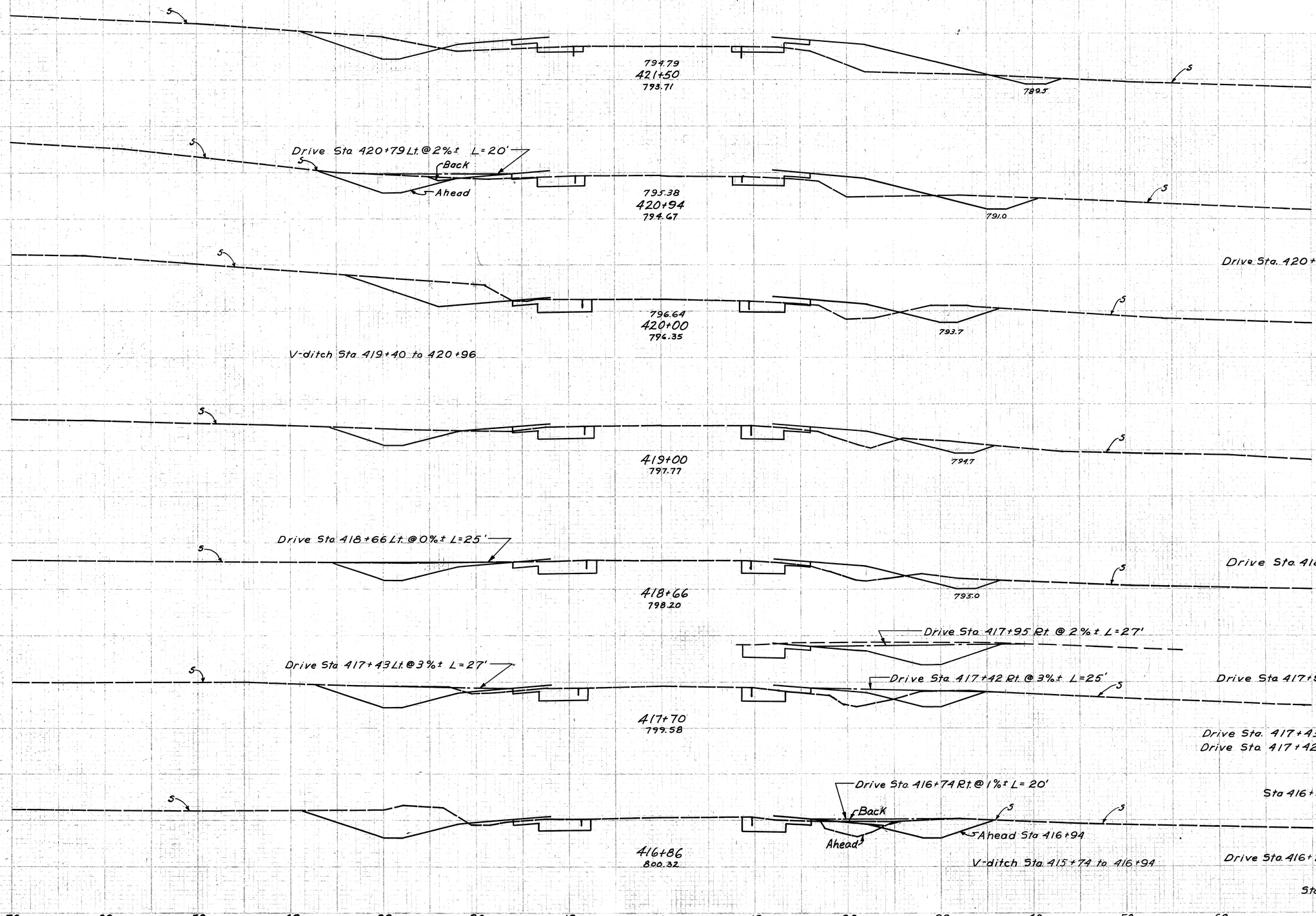
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta. 416+00	78	1		
Ahead	75	2	74	2
Back	55	9		
			140	23
	47	8		
Drive Sta. 414+86 Lt.			3	0
			131	46
	24	17		
			77	54
Sta. 413+14 Ahead	24	17		
Back	21	17		
			11	9
	21	17		
Drive Sta. 412+61 Lt.			0	2
			154	56
	62	13		
			60	13
Sta 411+74 Ahead	62	13		
Back	30	15		
			82	41
	30	15		
			130	56
Drive Sta. 410+75 Lt.			3	0
	40	15		
			48	27
	53	38		
Corrected For Drive Lt.			126	68
Drive Sta 409+32 Lt.			8	0
	78	13		
			248	46
Sta. 408+00	56	12		

Sta. 409+00 – 416+00

DIST. NO.	STATE	PROJECT	TYPE FUNDS	67
2	OHIO			146

LOR-82-(4.79-12.47)

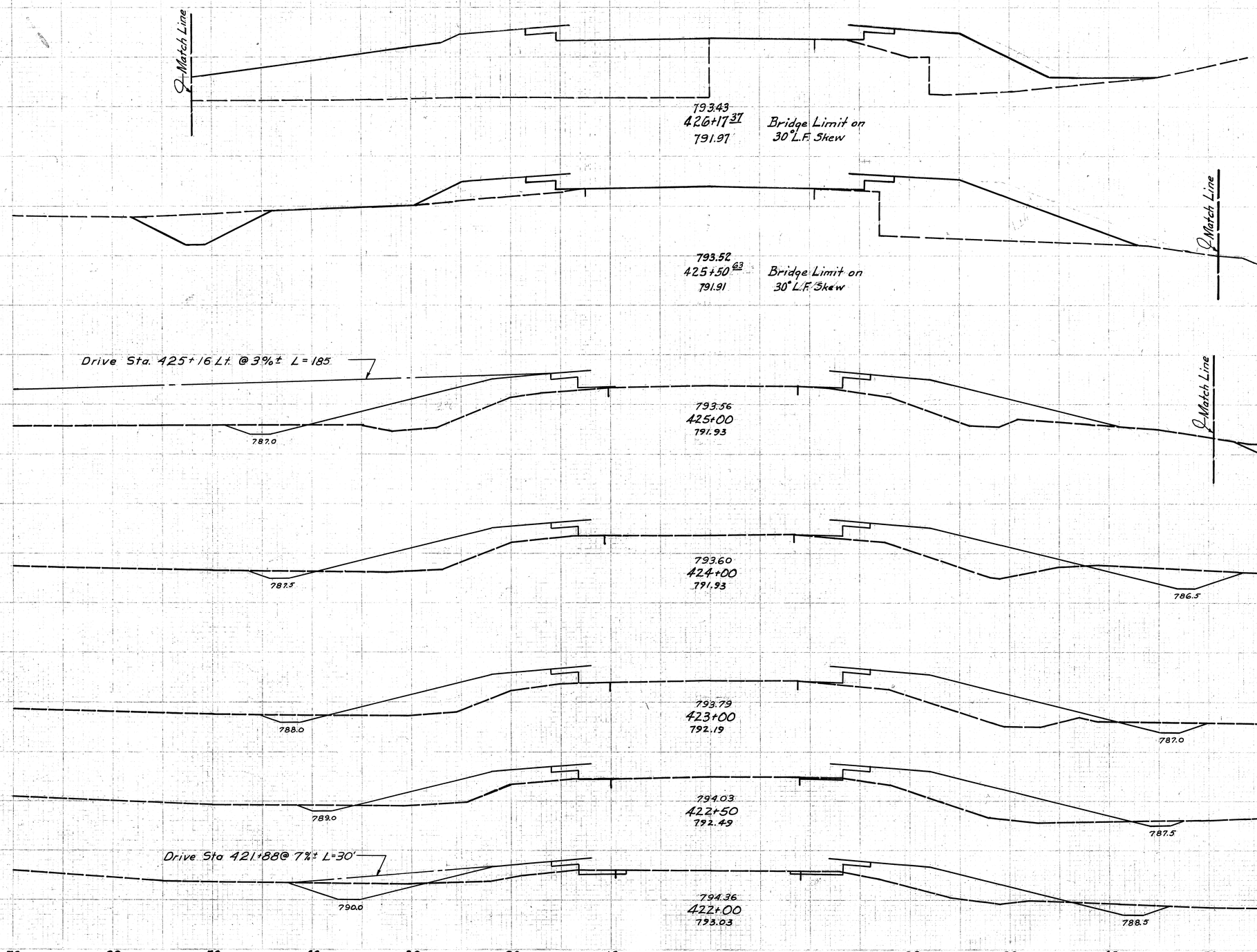


	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	29	41		
			69	63
Ahead	38	20		
Back	20	20		
Drive Sta. 420+79 Lt.			1	0
			127	54
	53	11		
			163	41
	35	11		
			49	12
Drive Sta. 418+66 Lt.			3	0
	42	8		
			160	32
Drive Sta. 417+95 Rt.			1	0
	48	10		
Drive Sta. 417+43 Lt.			2	0
Drive Sta. 417+42 Rt.			1	1
			159	15
Sta 416+94 Ahead	65	1		
Back	50	8		
			15	2
Ahead	50	8		
Back	50	1		
Drive Sta. 416+74 Rt.			2	0
			204	3
Sta 416+00	78	1		

Sta. 416+86-421+50

				68
2	OHIO			146

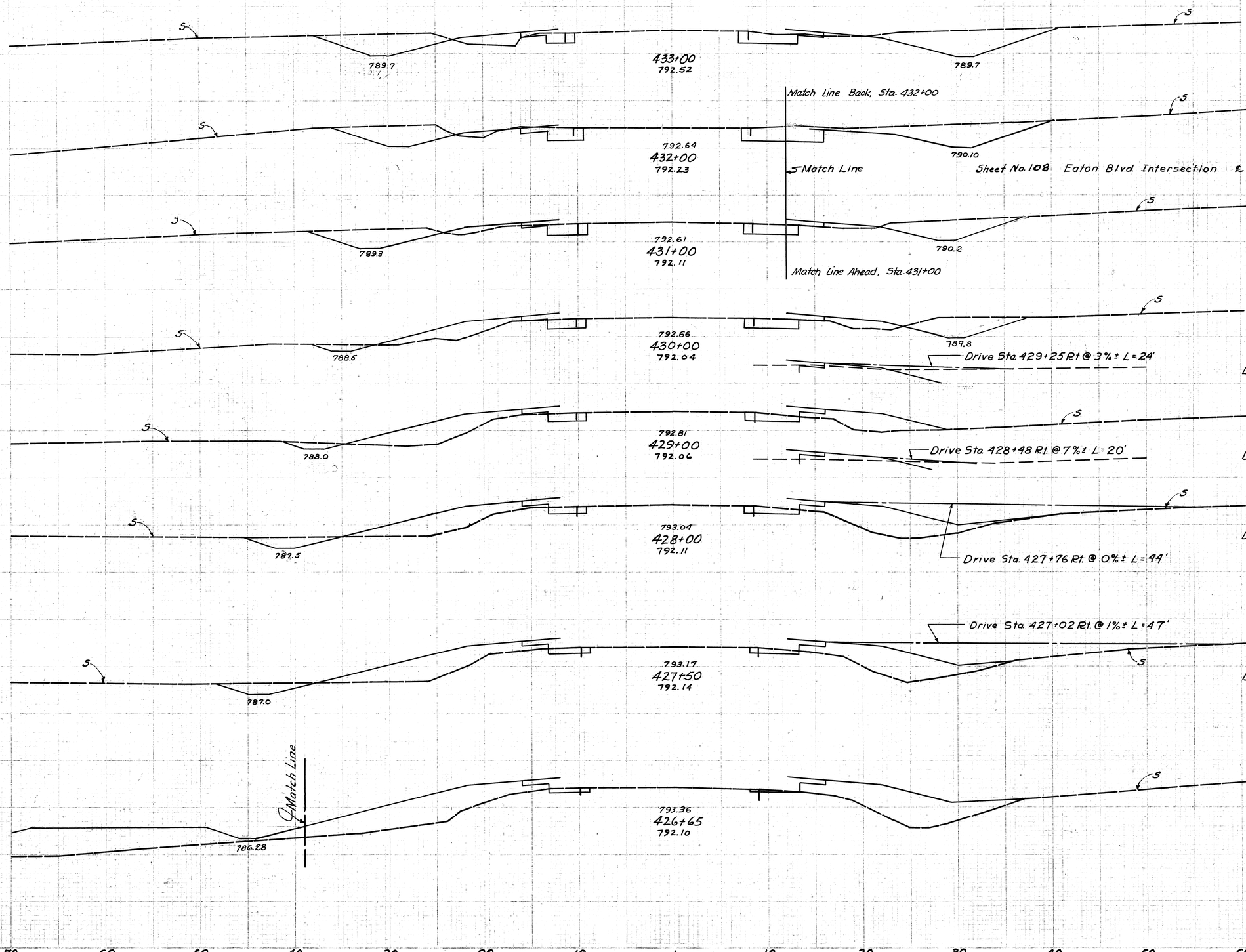
LOR-82-(4.79-12.47)



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Ahead Fill 13.82" x.866=11.97"	0	299		
Estimated Spill-Thru Embankment See Sheet No 117				214
Cut.96" x.866=.83" Fill 5.02" x.866=4.35" Back	21	109		
			24	212
Drive Sta. 425+16 Lt.			1	200
	5	117		
			48	407
	21	103		
			56	387
	9	106		
			11	185
	3	93		
			22	136
	21	54	47	88
Drive Sta. 421+88 Lt.			0	6
Sta. 421+50	29	41		

Sta. 422+00 – 426+17.37

LOR-82-(4.79-12.47)

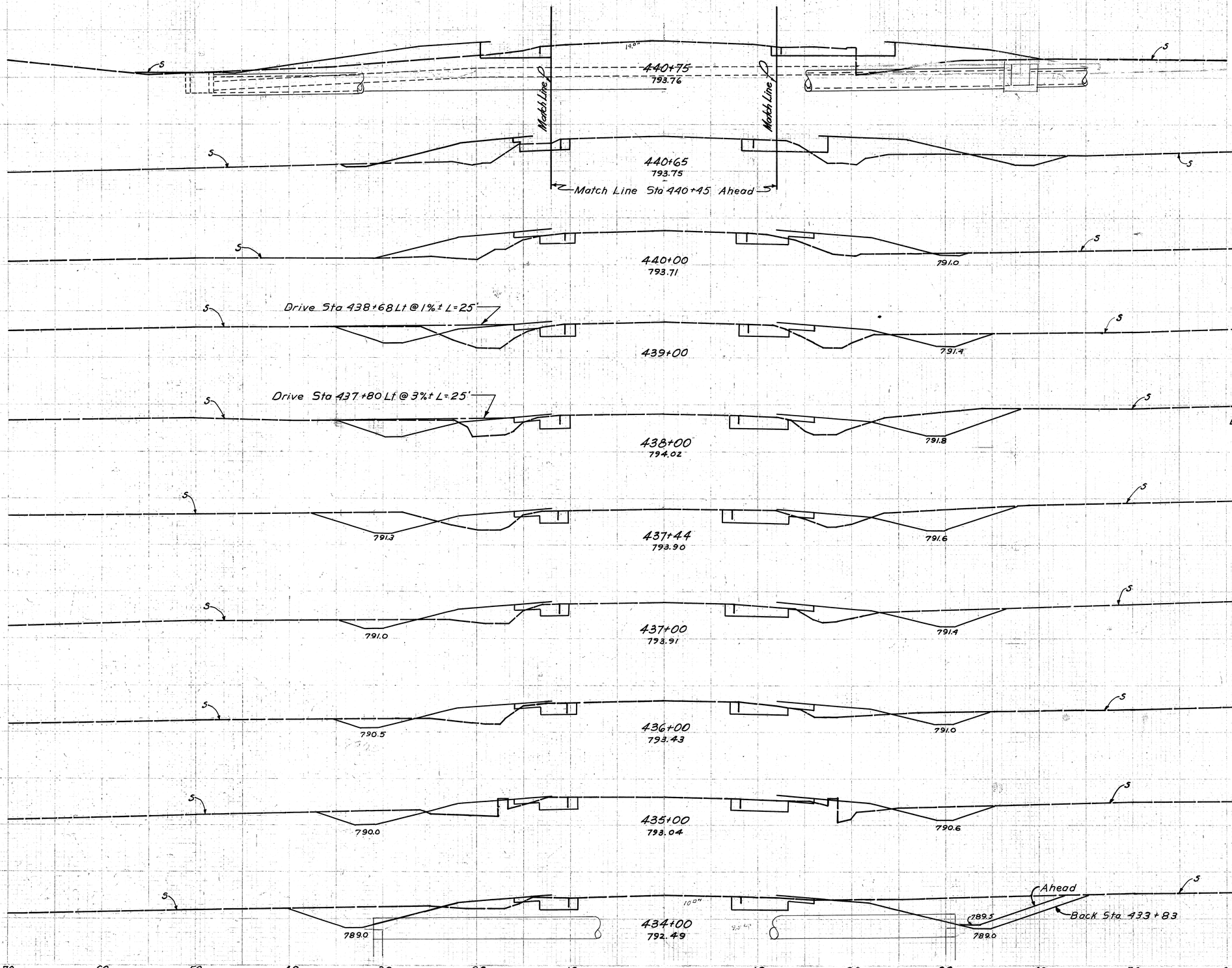


	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
Sta. 433+00	63	8		
			241	19
Sta 432+00 Ahead	67	2		
Back	32	2		
			193	10
			113	9
Sta 431+00 Ahead	29	3		
Back	52	5		
			139	48
	23	21		
			57	126
Drive Sta 429+25 Rt.			5	0
	8	47		
Drive Sta 428+48 Rt.			2	0
			39	211
	13	67		
Drive Sta 427+76 Rt.			1	14
			23	134
Drive Sta 427+02 Rt.	12	77	3	25
			26	285
	4	104		
			4	358
426+17	0	299		

Sta. 426+65—433+00

DIST. DIVISION	STATE	PROJECT	SHEET NUMBER
2	OHIO		70 146

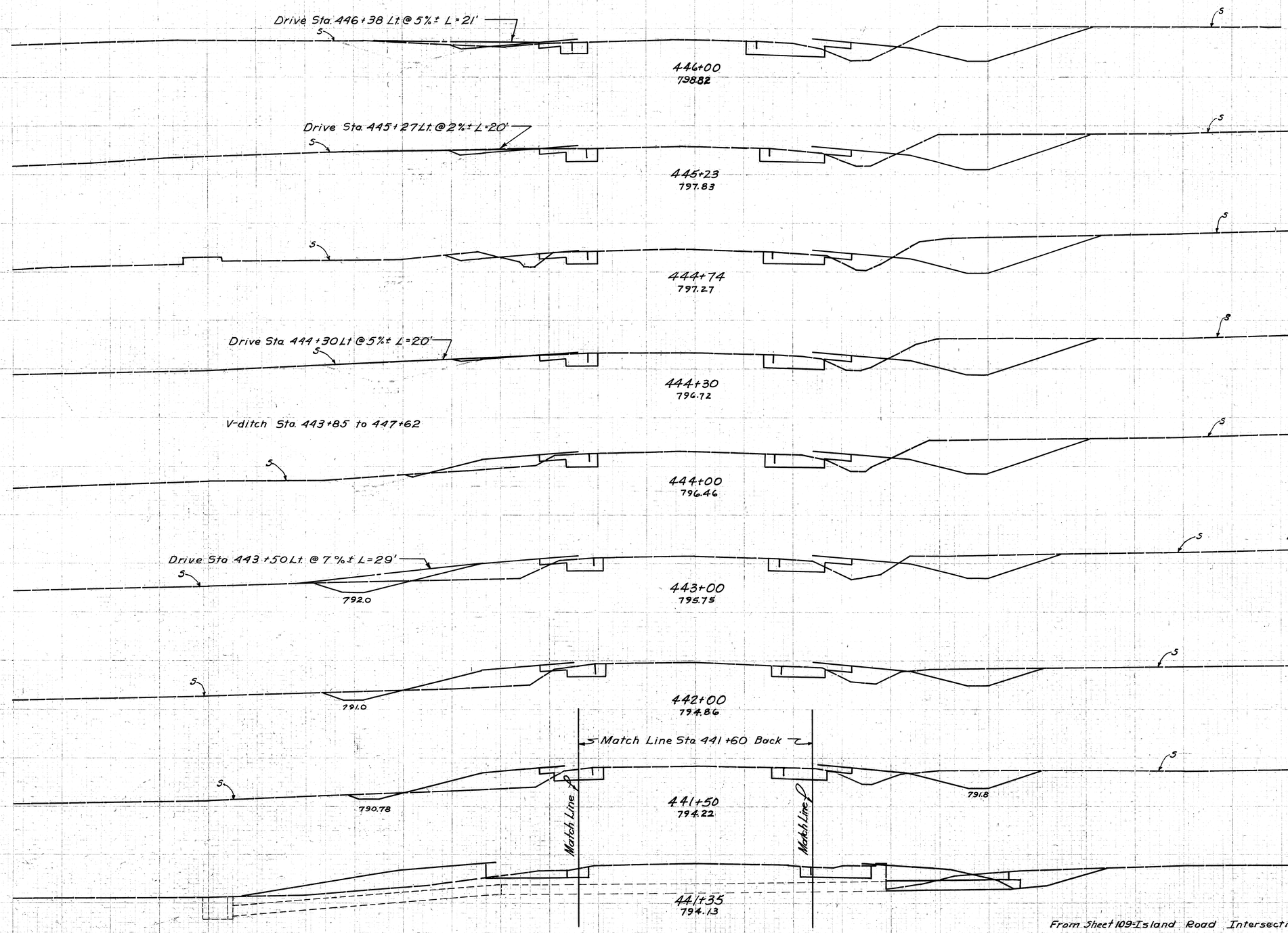
LOR-82-(4.79-12.47)



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta 440+75	1	0		
			2	0
	7	0		
			5	0
Sta 440+45 Ahead	7	0		
Back	22	47		
			25	76
	8	44		
			72	135
	31	29		
Drive Sta. 438+68 Lt.			2	0
			150	87
	50	18		
Drive Sta 437+80 Lt.			3	0
			105	39
	51	19		
			65	33
	29	23		
			98	85
	24	23		
			107	74
	34	17		
			193	43
	70	6		
			44	2
Sta 433+83 Ahead	70	6		
Back	81	6		
			222	22
Sta 433+00	63	8		

Sta. 434+00 — 440+75

LOR-82-(4.79-12.47)

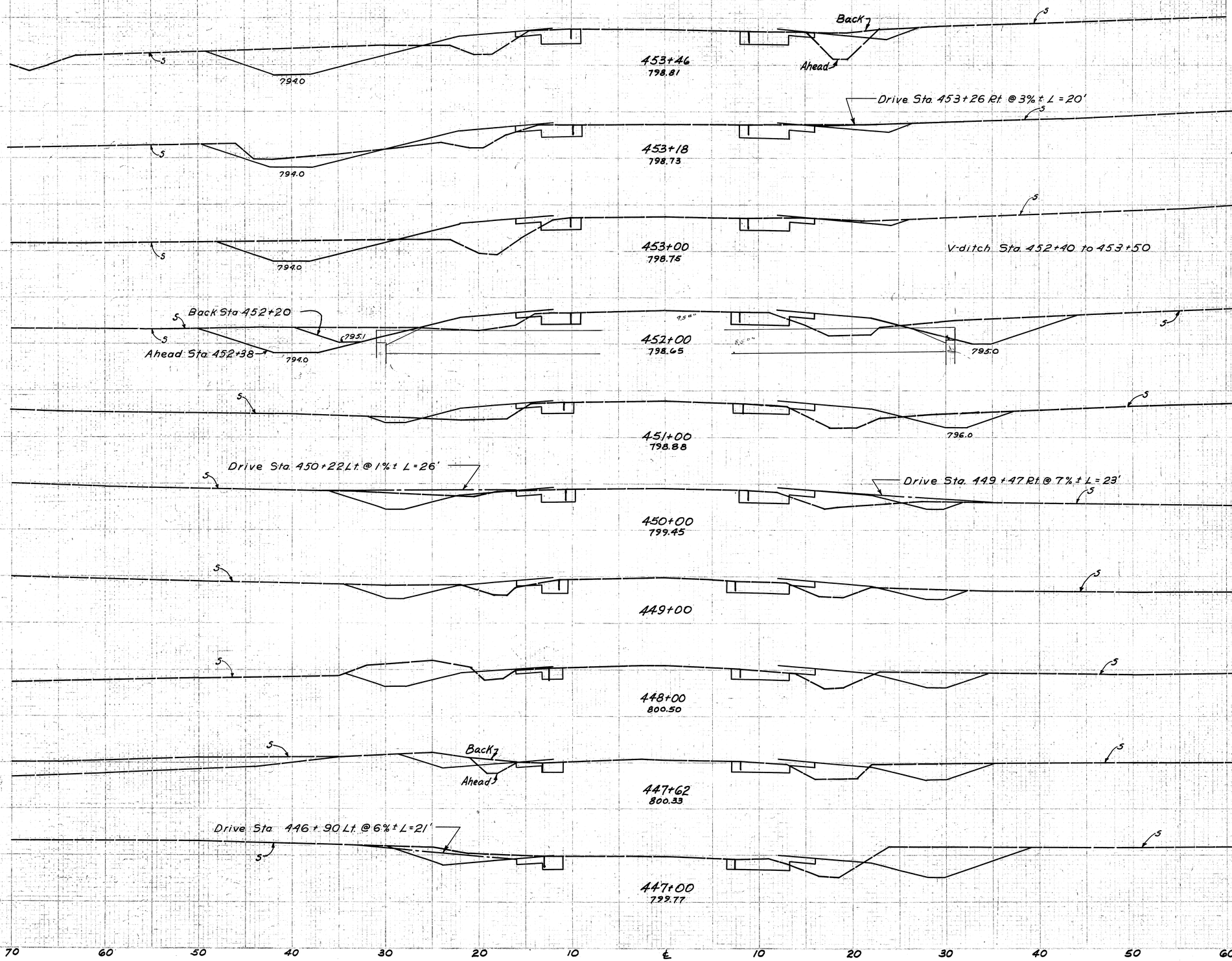


	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Drive Sta. 446+38 Lt.			1	0
Sta. 446+00	56	8		
Drive Sta. 445+27 Lt.			10	0
			159	19
	56	5		
			105	12
	60	8		
			99	10
Drive Sta. 444+30 Lt.			10	0
	61	4		
			64	12
	54	17		
			30	9
Sta 443+85 Ahead	54	17		
Back	40	28		
			126	88
Drive Sta 443+50 Lt.			1	2
	40	28		
			124	104
	27	28		
			42	41
Sta. 441+60 Ahead	30	27		
Back	8	0		
			3	0
	8	0		
			3	0
	3	0		
			4	0
From Sheet 109-Island Road Intersection ℄ Sta 441+03			155	95
Sta 440+75	1	0		

Sta. 441+35 – 446+00

DIST. NO.	STATE	PROJECT		72
2	OHIO			146

LOR-82-(4.79-12.47)



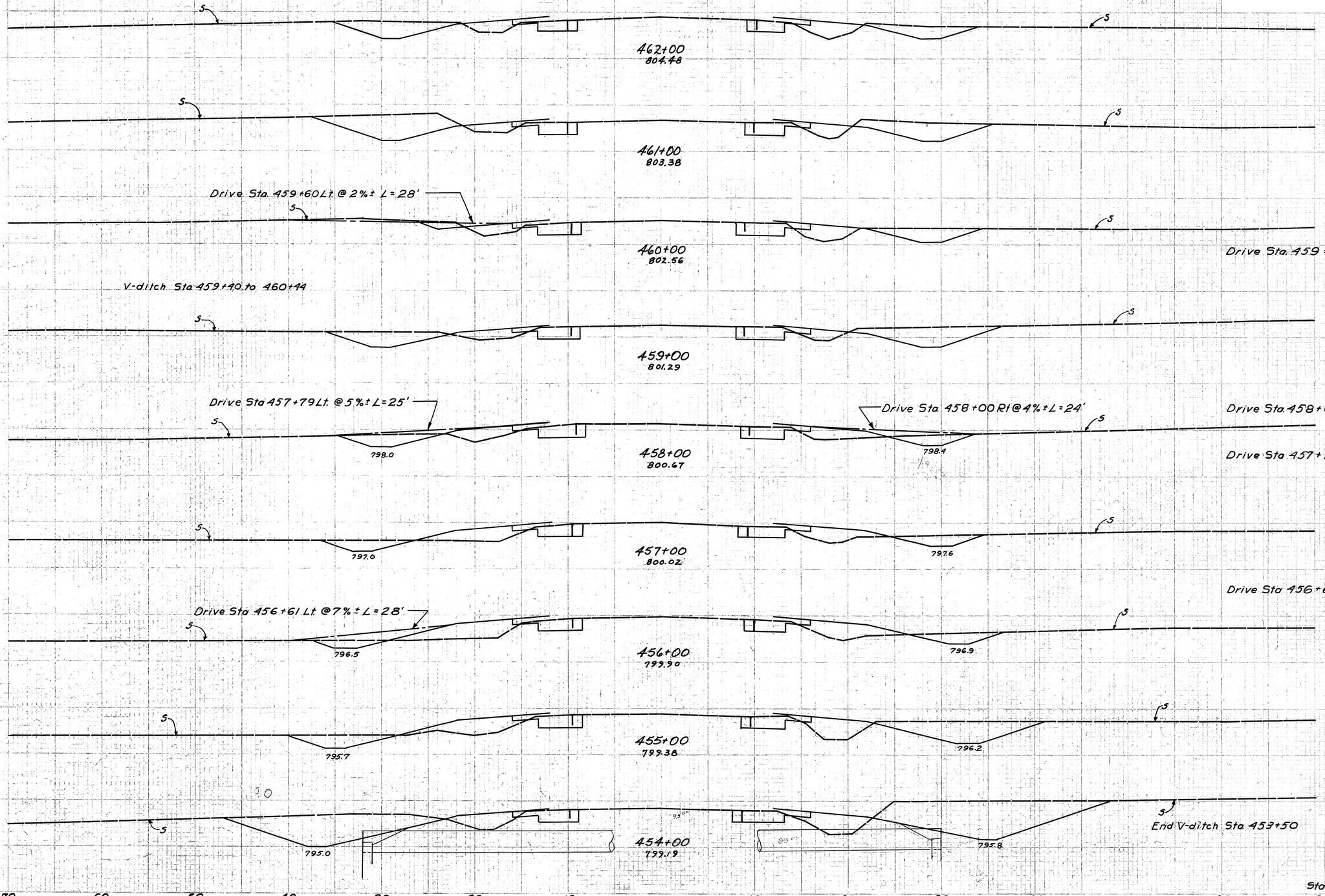
		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta 453+46	Ahead	53	25		
	Back	54	14		
				48	15
Sta 453+18		38	15		
				4	0
Drive Sta 453+26 Rt.					
				25	15
		38	29		
				138	66
Sta 452+38	Ahead	82	29		
				45	19
Sta 452+20	Back	53	29		
				39	21
		53	29		
				135	104
		20	27		
				85	74
Drive Sta 450+22 Lt.				3	1
		26	13		
Drive Sta 449+47 Rt.				1	3
				96	48
		26	13		
				135	46
		47	12		
				57	17
	Ahead	34	12		
	Back	36	10		
				112	23
		62	10		
Drive Sta 446+90 Lt.				3	0
				219	33
Sta 446+00		56	8		

Sta. 447+00 – 453+46

FED. ROAD DIV. NO.	STATE	PROJECT	
2	OHIO		

73
146

LOR-82-(4.79-12.47)



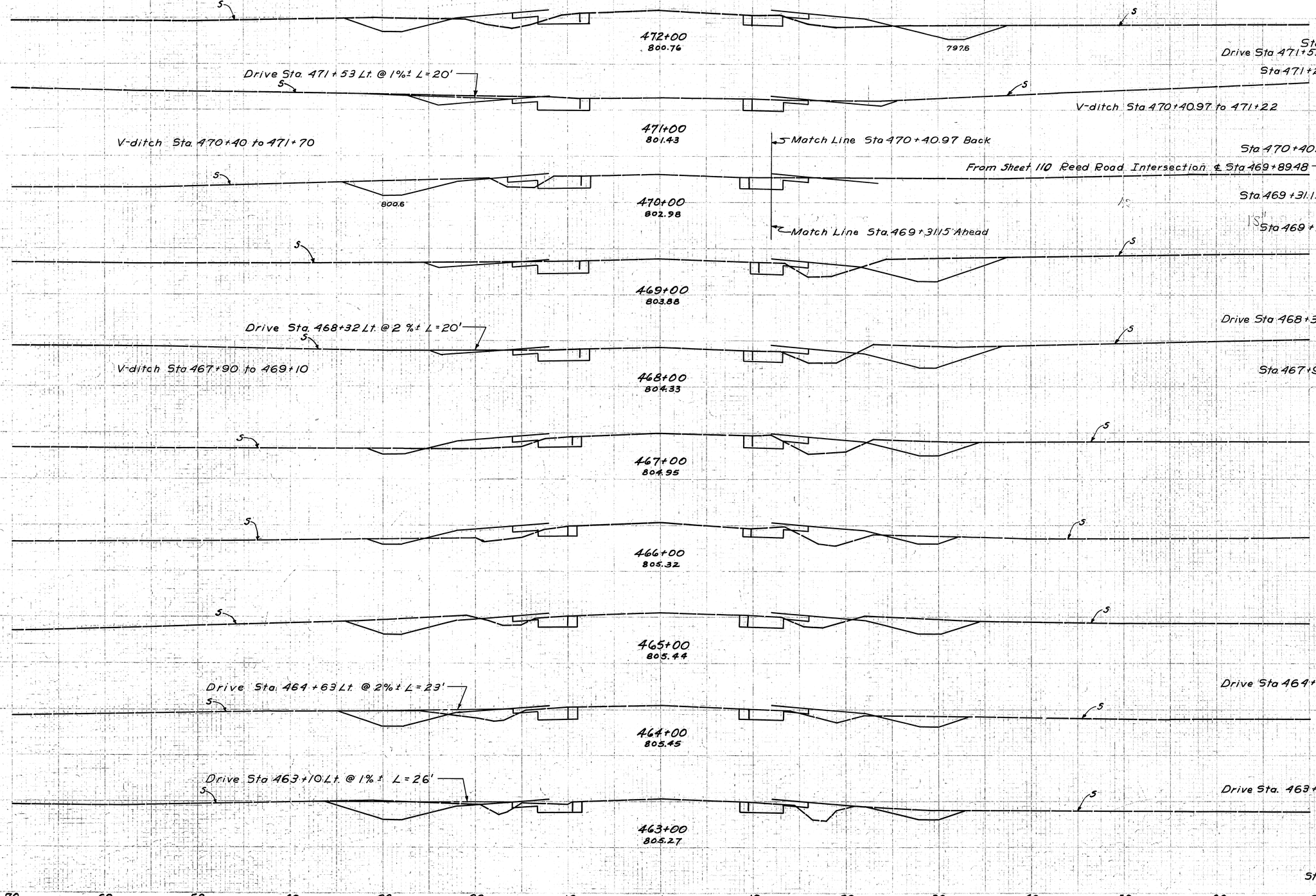
	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	34	14		
			176	44
	61	10		
			159	43
	25	13		
Drive Sta. 459+60 Lt.			6	0
			130	41
	45	9		
			131	46
Drive Sta. 458+00 Rt.			1	1
	26	16		
Drive Sta 457+79 Lt.			1	1
			91	72
	23	23		
			80	100
Drive Sta 456+61 Lt.			1	9
	20	31		
			126	106
	48	26		
			322	89
	126	22		
			295	69
Sta. 453+46	53	25		

Sta. 454+00–462+00

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

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146

LOR-82-(4.79-12.47)



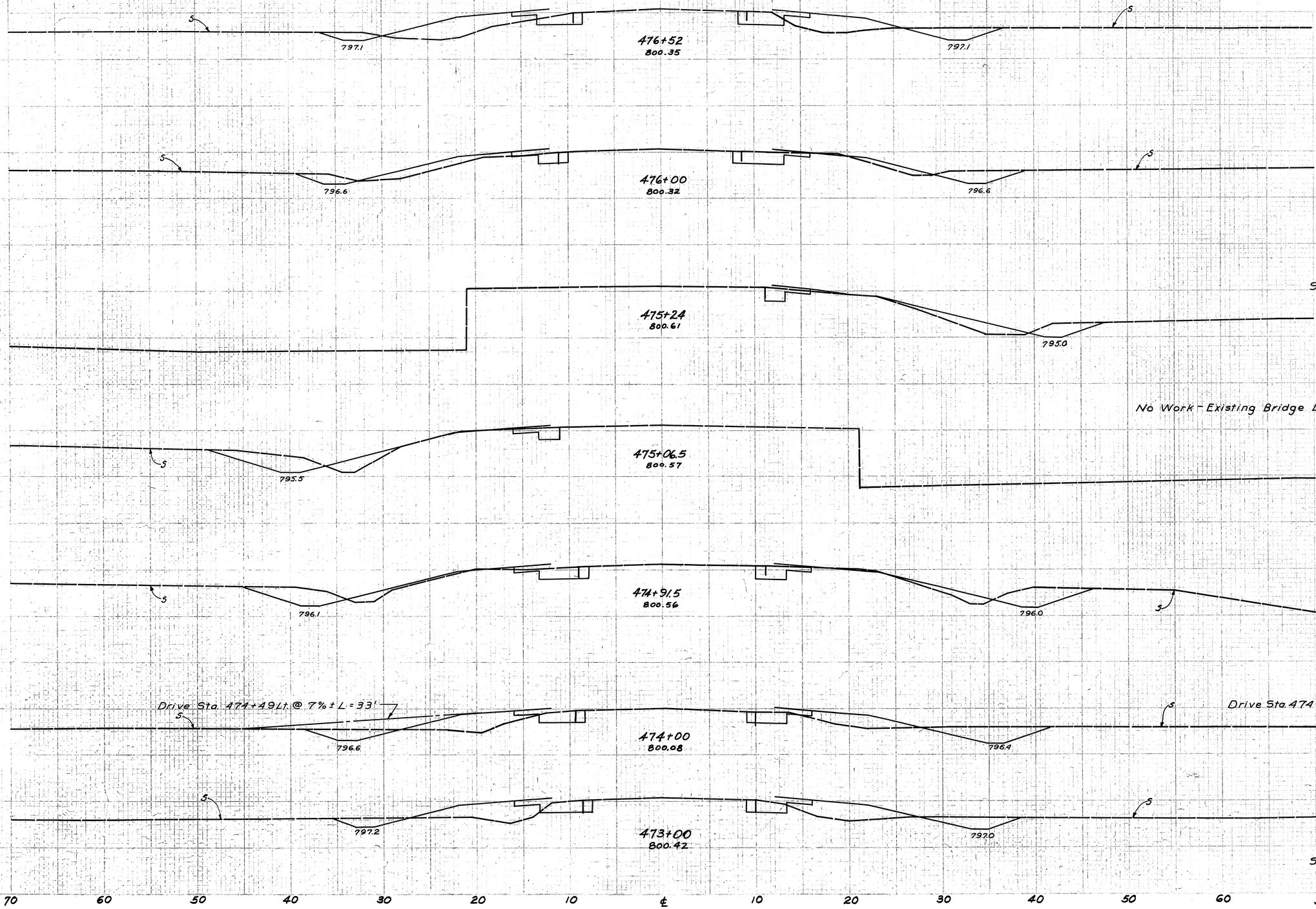
		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta 472+00		29	19		
Drive Sta 471+53 Lt.				4	0
	Ahead	29	19	83	55
Sta 471+22	Back	25	0		
				75	0
	Ahead	25	0		
Sta 470+40.97	Back	24	4		
				166	39
	Ahead	24	4	98	17
Sta 469+31.15	Back	49	10		
	Ahead	49	10	38	8
Sta 469+10	Back	39	7		
				164	34
Drive Sta 468+32 Lt.				5	0
	Ahead	35	8		
Sta 467+90	Back	51	8		
				122	45
		25	19		
				72	74
		14	21		
				96	50
		38	6		
				122	33
Drive Sta 464+63 Lt.				1	1
		28	12		
				119	39
Drive Sta. 463+10 Lt.				2	0
		36	9		
				130	43
Sta 462+00		34	14		

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

Sta. 463+00 — 472+00

FED. RD. DIVISION	STATE	PROJECT		75
2	OHIO			146

LOR-82-(4.79-12.47)

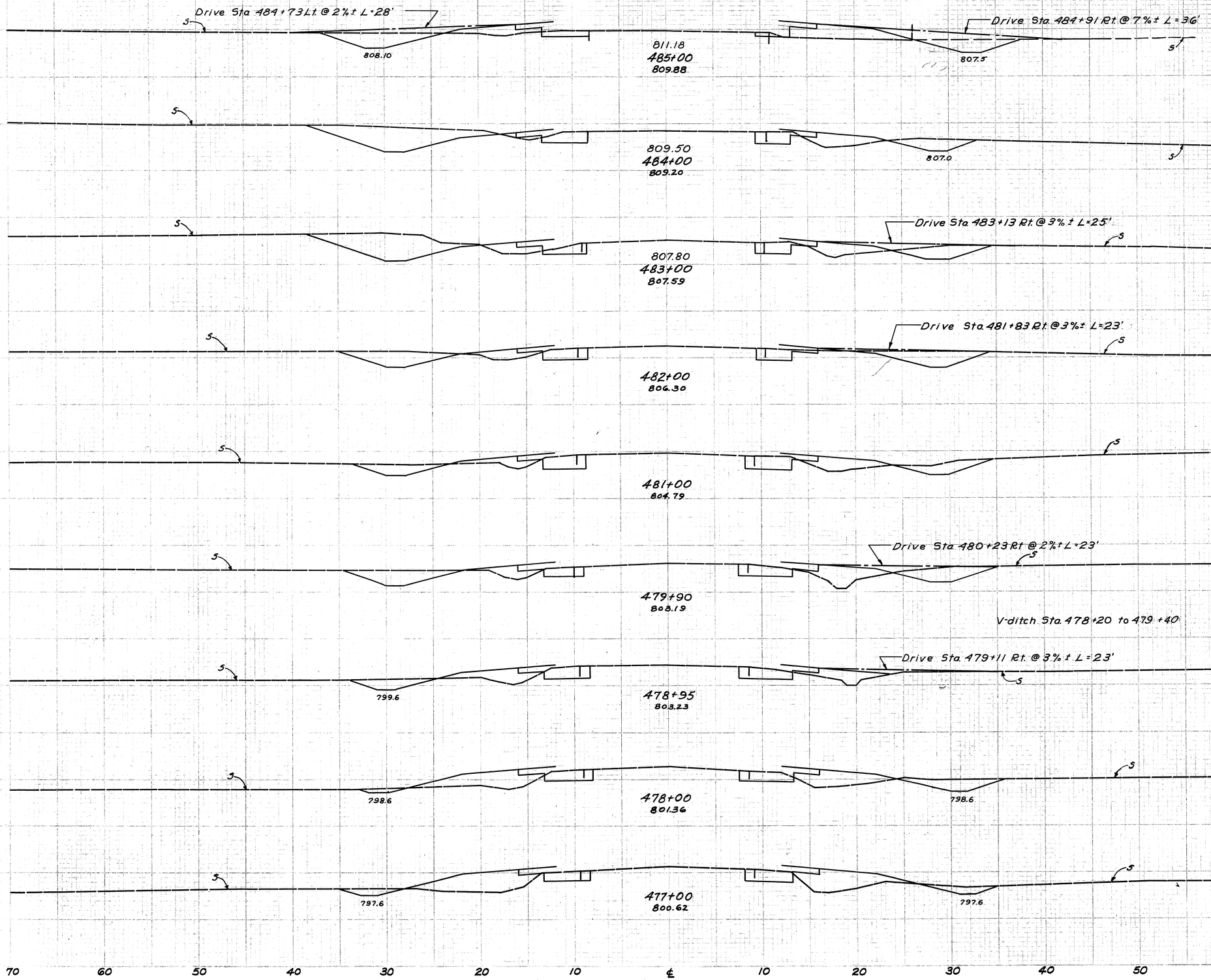


	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	21	39		
			43	53
	24	16		
			58	38
Sta 475+35	24	16		
			7	6
Ahead	11	11		
Back	20	7		
			16	5
	37	12		
			117	71
Drive Sta. 474+49 Lt.			1	15
	32	30		
			102	122
	23	36		
			96	102
Sta 472+00	29	19		

Sta. 473+00—476+52

FED. HIGHWAY DIVISION	STATE	PROJECT		76
2	OHIO			146

LOR-82-(4.79-12.47)



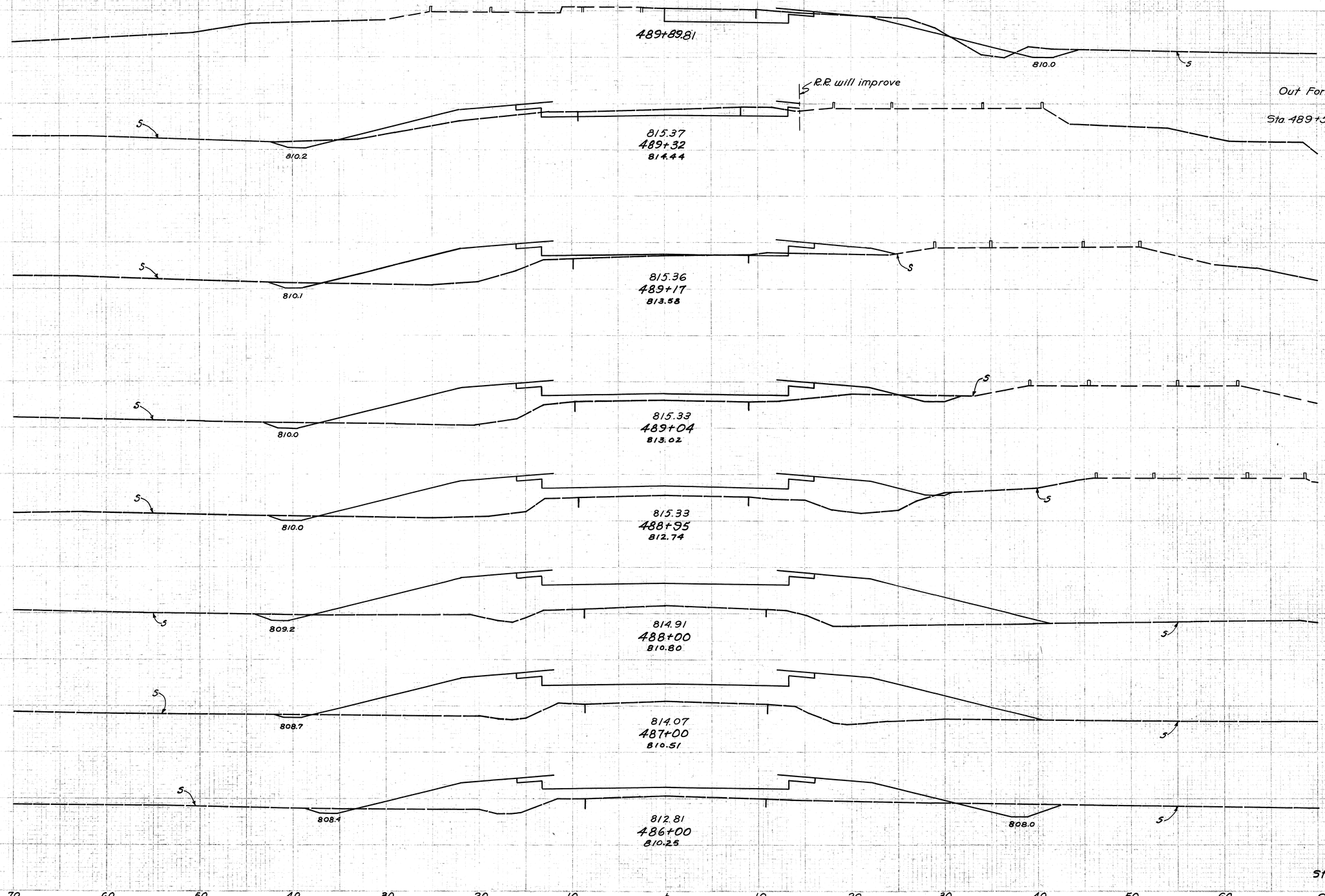
	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	26	21		
Drive Sta 484+91 Rt.			3	6
Drive Sta 484+73 Lt.			2	3
			137	56
	48	9		
			176	41
Drive Sta 483+13 Rt.			1	1
	47	13		
			157	33
Drive Sta 481+83 Rt.			5	0
	38	5		
			119	33
	26	13		
			100	63
Drive Sta 480+23 Rt			6	1
	23	18		
			72	64
Drive Sta 479+11 Rt.			4	1
	18	18		
			50	50
Sta 478+20 Ahead	18	18		
Back	21	32		
	21	32	16	24
			70	133
	17	40		
			34	70
Sta 476+52	21	39		

Sta. 477+00–485+00

FED. AID. DIVERSION	STATE	PROJECT	
2	OHIO		

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146

LOR-82-(4.79-12.47)



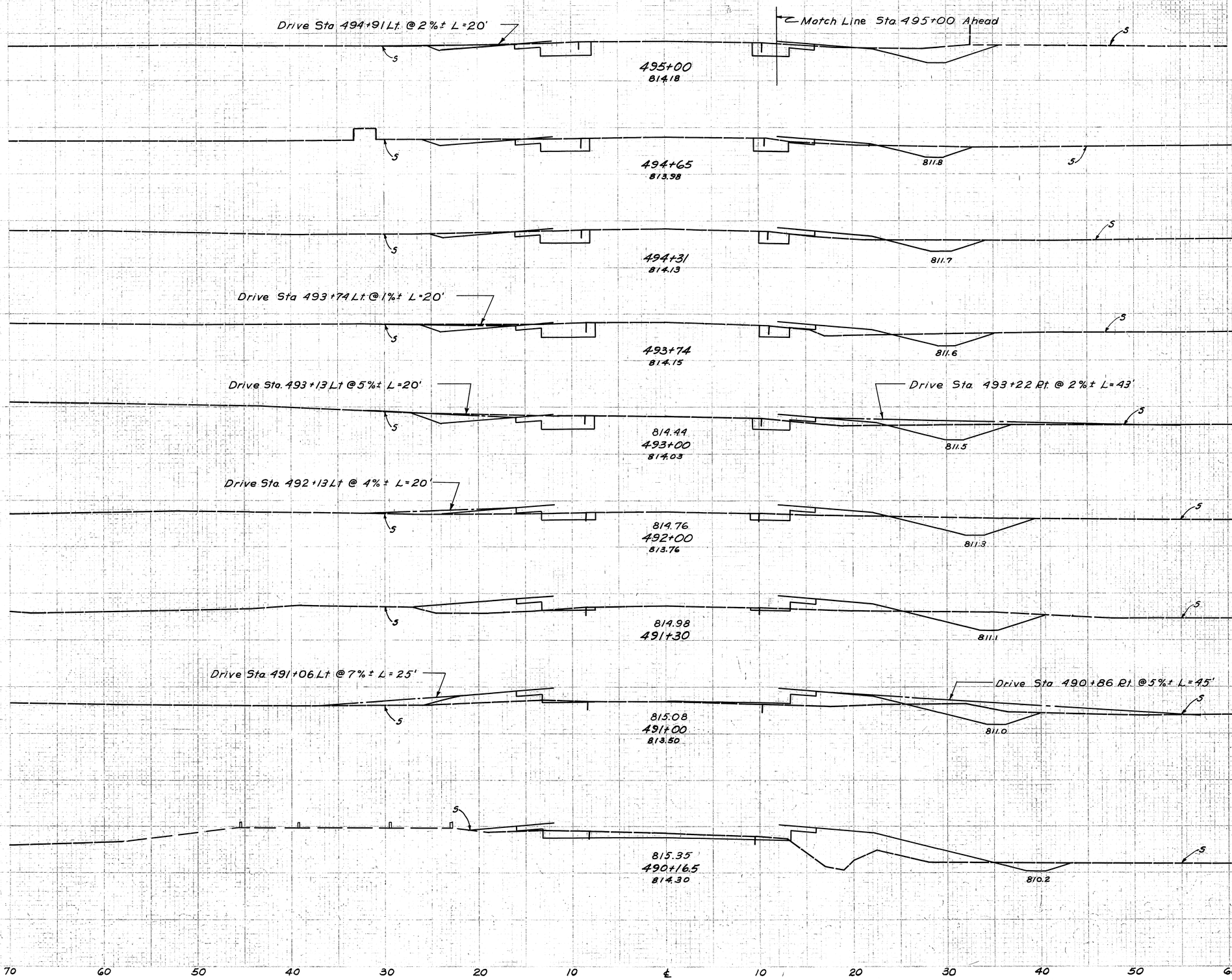
	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Ahead	30	5		
Out For Railroad				
Sta. 489+53.23 Back	22	22		
	22	22	17	17
			7	26
	4	71		
			2	40
	4	96		
			1	38
	2	134		
			9	649
	3	235		
			7	833
	1	215		
			24	593
	12	105		
			70	233
Sta. 485+00	26	21		

Sta. 486+00—489+89.5

FED. HWY. DIVISION	STATE	PROJECT	
2	OHIO		

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146

LOR-82-(4.79-12.47)

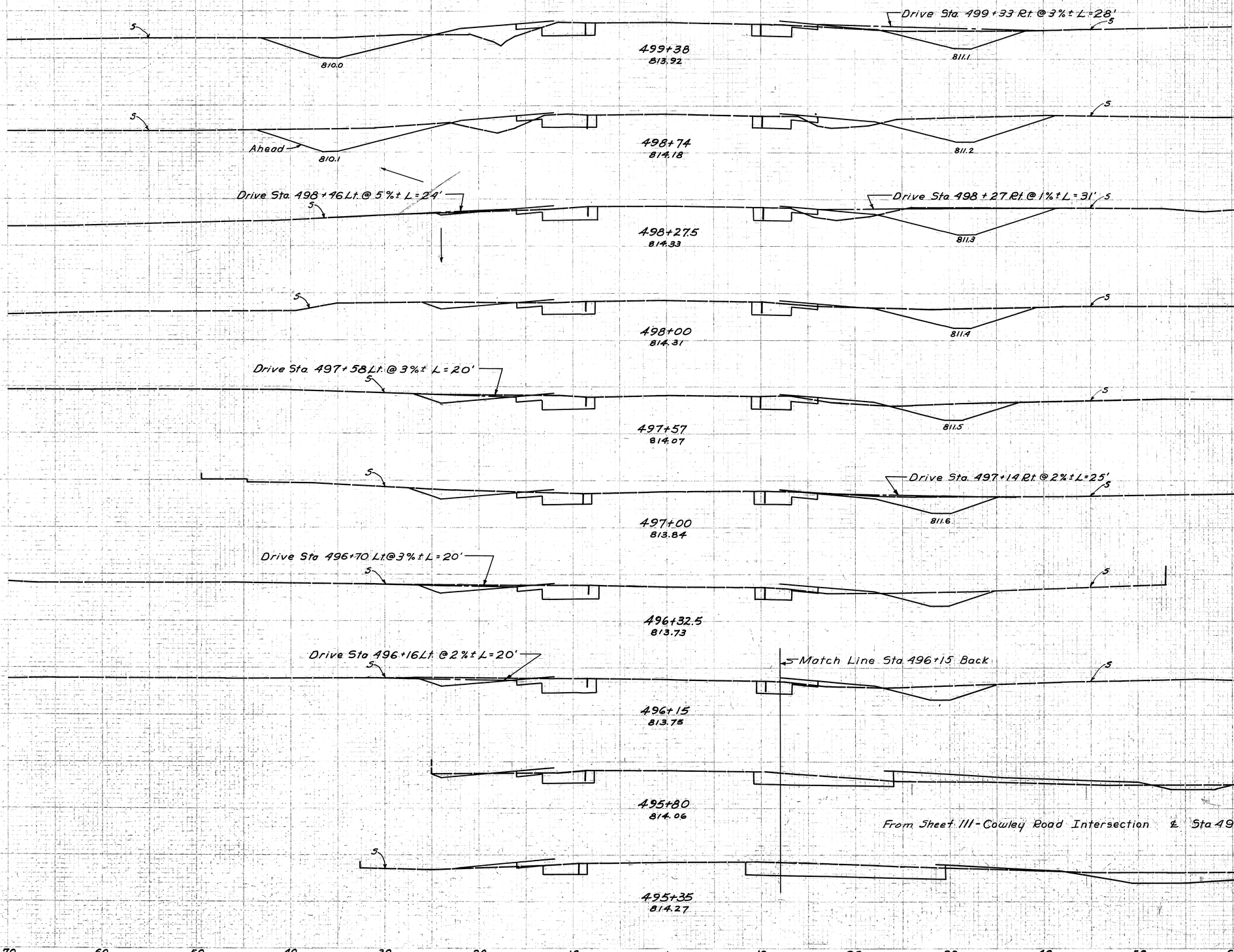


	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta 495+00 Ahead	15	0		
Back	30	1		
Drive Sta 494+91 Lt.			0	1
	26	2	36	2
			30	4
	21	4		
			53	11
Drive Sta 493+74 Lt.			10	0
	29	6		
			87	16
Drive Sta 493+22 Rt.			3	3
Drive Sta 493+13 Lt.			4	0
	34	6		
			106	26
Drive Sta 492+13 Lt.			8	1
	23	8		
			64	36
	26	20		
			24	25
Drive Sta 491+06 Lt.			4	1
	17	25		
Drive Sta 490+86 Rt.			2	5
			58	111
	20	47		
			25	26
Sta 489+89.8	30	5		

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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LOR-82-(4.79-12.47)



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	54	11		
Drive Sta. 499+33 Rt.			1	1
			150	31
	73	15		
			105	17
Drive Sta 498+46 Lt.			13	0
	49	5		
Drive Sta. 498+27 Rt.			1	1
			44	3
	38	1		
			61	3
Drive Sta. 497+58 Lt.			10	0
	38	3		
			79	3
Drive Sta. 497+14 Rt			1	0
	37	0		
			88	4
Drive Sta. 496+70 Lt			10	0
	33	3		
			22	2
Drive Sta 496+16 Lt.			6	0
Sta 496+15 Ahead	34	3		
Back	21	0		
			21	1
	12	1		
			18	3
From Sheet 111 - Cowley Road Intersection ℄ Sta 495+56.14			147	15
	10	2		
			16	1
Sta 495+0.0	15	0		

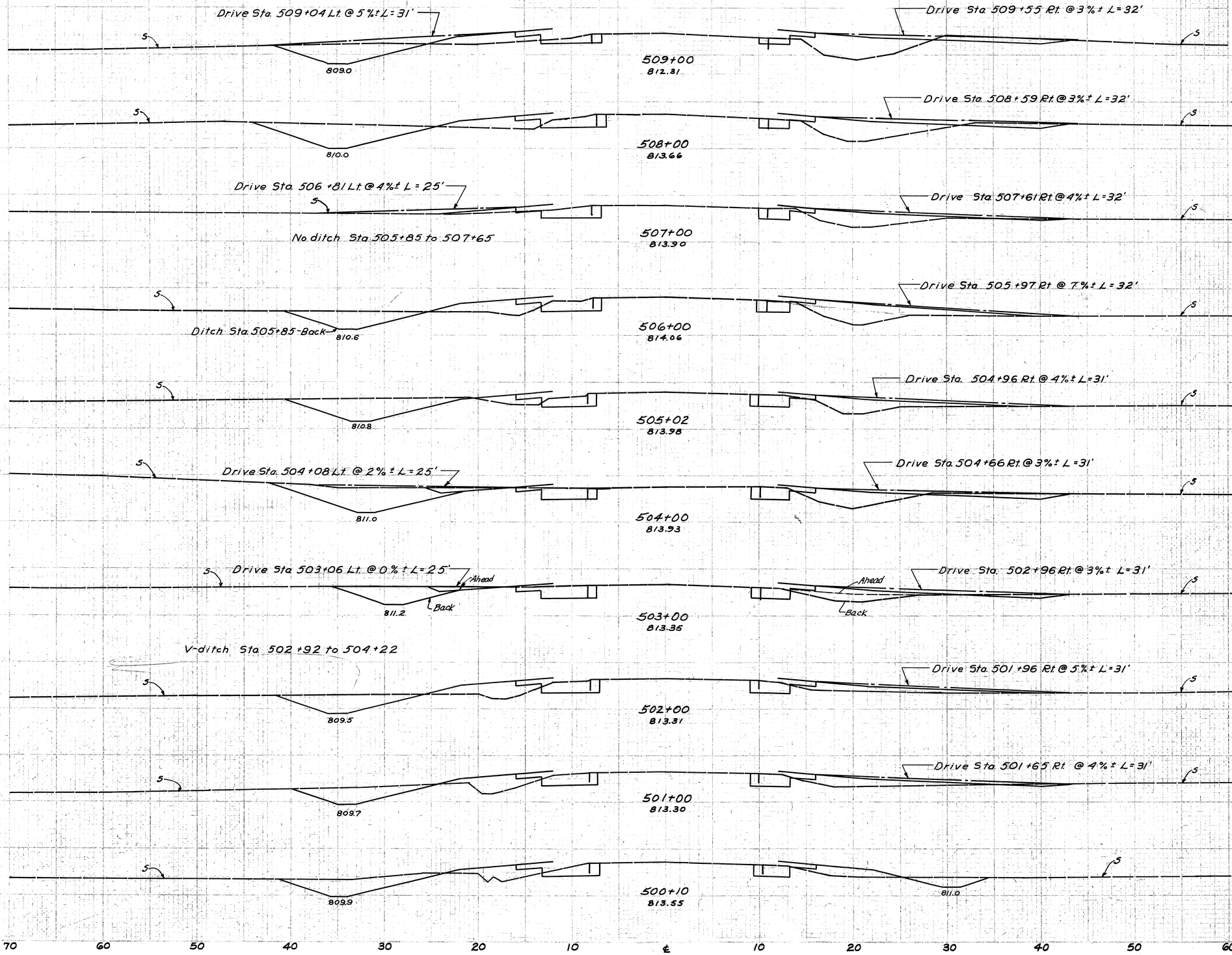
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

Sta. 495+35 — 499+38

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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LOR-82-(4.79-12.47)



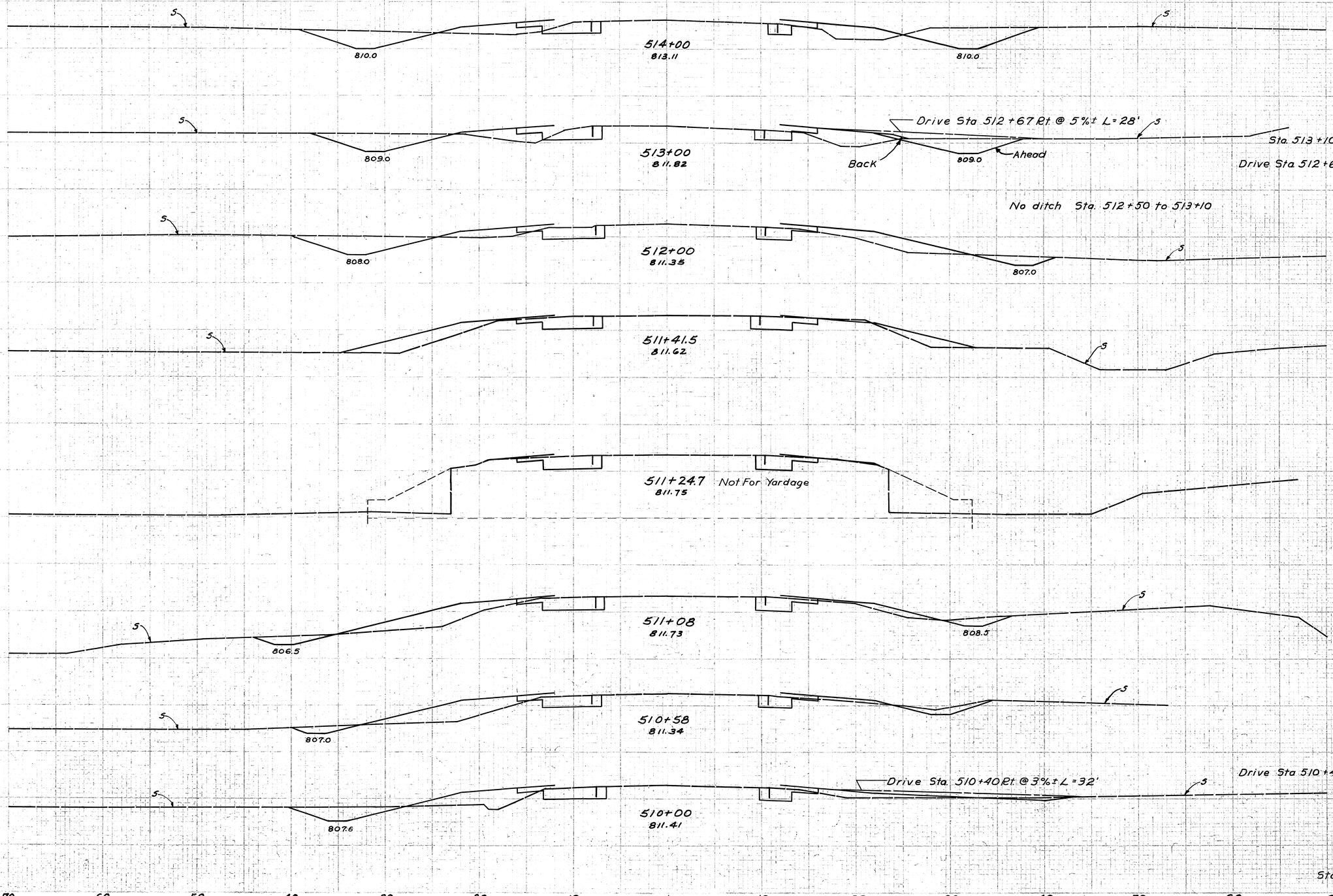
	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta 509+00	35	34		
Drive Sta 509+55 Rt.			1	1
Drive Sta 509+04 Lt.			1	2
Drive Sta 508+59 Rt.			1	1
			144	124
Sta 508+00	43	33		
			56	43
Sta 507+65 Ahead	43	33		
Back	10	21		
			24	51
Drive Sta 507+61 Rt.			1	1
	10	21		
Drive Sta 506+81 Lt.			2	1
			47	123
Drive Sta 505+97 Rt.			1	1
Sta 505+85 Ahead	12	37		
Back	30	37		
			106	89
	39	21		
			136	50
Drive Sta 504+96 Rt.			1	1
Drive Sta 504+66 Rt.			1	1
Sta 504+22 Ahead	53	13		
Back	22	13		
			18	11
Drive Sta 504+08 Lt.			1	0
	22	13		
			76	54
Drive Sta 503+06 Lt.			1	0
Drive Sta 502+96 Rt.			1	1
Sta 502+92 Ahead	16	14		
Back	32	14		
			110	68
	32	26		
Drive Sta 501+96 Rt.			1	1
			111	93
Drive Sta 501+65 Rt.			1	1
	28	24		
			110	70
	38	18		
			122	39
Sta 499+38	54	11		

Sta. 500+00—509+00

REG. NO. DIVISION	STATE	PROJECT	
2	OHIO		

81
146

LOR-82-(4.79-12.47)



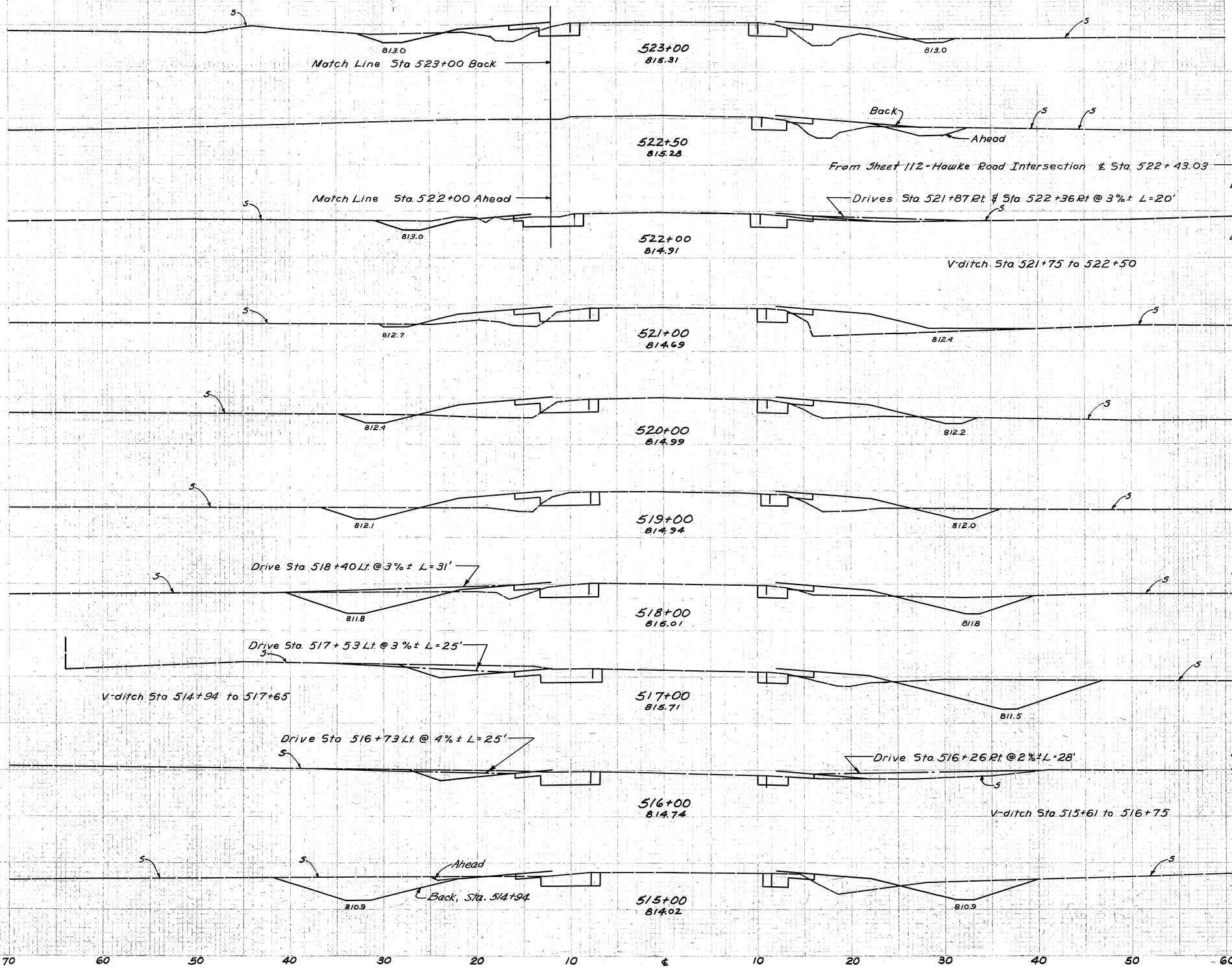
	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	44	20		
			140	63
Sta. 513+10 Ahead	40	18		
Back	27	20		
Drive Sta 512+67 Rt.			1	2
No ditch Sta. 512+50 to 513+10			132	84
	38	21		
			61	50
	18	25		
	28	32		
	27	27		
			47	48
	23	25		
			55	49
Drive Sta 510+40 Rt.			1	2
	28	21		
			117	102
Sta. 509+00	35	34		

Sta. 510+00 – 514+00

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

82
146

LOR-82-(4.79-12.47)



		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta 523+00	Ahead	19	21		
	Back	12	13		
				21	22
Sta 522+50	Ahead	10	10		
	Back	5	10		
				40	13
From Sheet 112 - Hawke Road Intersection & Sta 522+43.03				1	0
Drive Sta 522+36 Rt				16	11
	Ahead	12	2		
	Back	22	3		
Drive Sta 521+87 Rt				1	0
				63	83
		12	42		
				59	139
		20	33		
				87	113
		27	28		
				144	74
Drive Sta 518+40 Lt				1	1
		51	12		
				66	15
Sta 517+65	Ahead	51	12		
	Back	30	12		
Drive Sta 517+53 Lt				6	0
				116	25
		66	9		
				61	8
Sta 516+75	Ahead	66	9		
	Back	22	2		
Drive Sta 516+73 Lt				5	0
Drive Sta 516+26 Rt				1	1
				61	5
Sta 516+00		22	2		
				32	3
Sta. 515+61	Ahead	22	2		
	Back	42	11		
				107	29
Sta. 514+94	Ahead	44	12		
	Back	61	12		
				182	51
Sta 514+00		44	20		

Sta. 515+00-523+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

83
146

LOR-82-(4.79-12.47)

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
532+00	25	24		
814.52			91	85
531+00	24	22		
814.73			111	74
530+00	36	18		
814.76			122	57
529+00	30	13		
815.02			127	56
Drive Sta 528+06 Rt @ 5%± L=28'				
527+96	36	16		
815.22			151	50
527+00	49	12		
815.23			270	24
Drive Sta 526+14 Rt @ 3%± L=35'				
526+00	97	1		
815.34			257	7
Drive Sta 525+24 Lt @ 3%± L=20'				
525+00	42	3		
815.31			126	31
V-ditch Sta 524+00 to 525+50				
524+00	Ahead 26	14		
815.27	Back 43	14	115	65
Sta. 523+00	19	21		

Drive Sta 528+06 Rt — 1 1

Drive Sta 526+14 Rt — 2 0

Drive Sta 525+24 Lt — 3 0

Drive Sta 524+24 Rt — 2 1

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

Sta. 524+00 – 532+00

FED. ROAD SYSTEM	STATE	PROJECT	TYPE FUNDS
2	OHIO		

84
146

LOR-82-(4.79-12.47)

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
541+00	38	19		
			141	69
Drive Sta 539+92 Rt @ 4% ± L=29'				
Ahead	38	18		
Back	16	18		
540+00				
Drive Sta 539+92 Rt			1	1
			69	59
539+00	21	14		
			68	45
V-ditch Sta 538+10 to 540+00				
Sta 538+10 Ahead	20	13		
Back	42	13		
538+00				
			167	47
	40	10		
537+00			106	44
Drive Sta 535+80 Rt @ 4%± L=24'	17	14		
Drive Sta 535+80 Rt			2	1
536+00				
V-ditch Sta 535+60 to 536+50				
			83	54
535+00	28	15		
			102	63
Drive Sta 534+70 Lt @ 6%± L=24'				
Drive Sta 534+70 Lt			1	1
534+00	27	19		
			98	72
Drive Sta 532+63 Rt @ 5%± L=28'				
	26	20		
Drive Sta 532+63 Rt			1	2
			94	81
Sta 532+00	25	24		

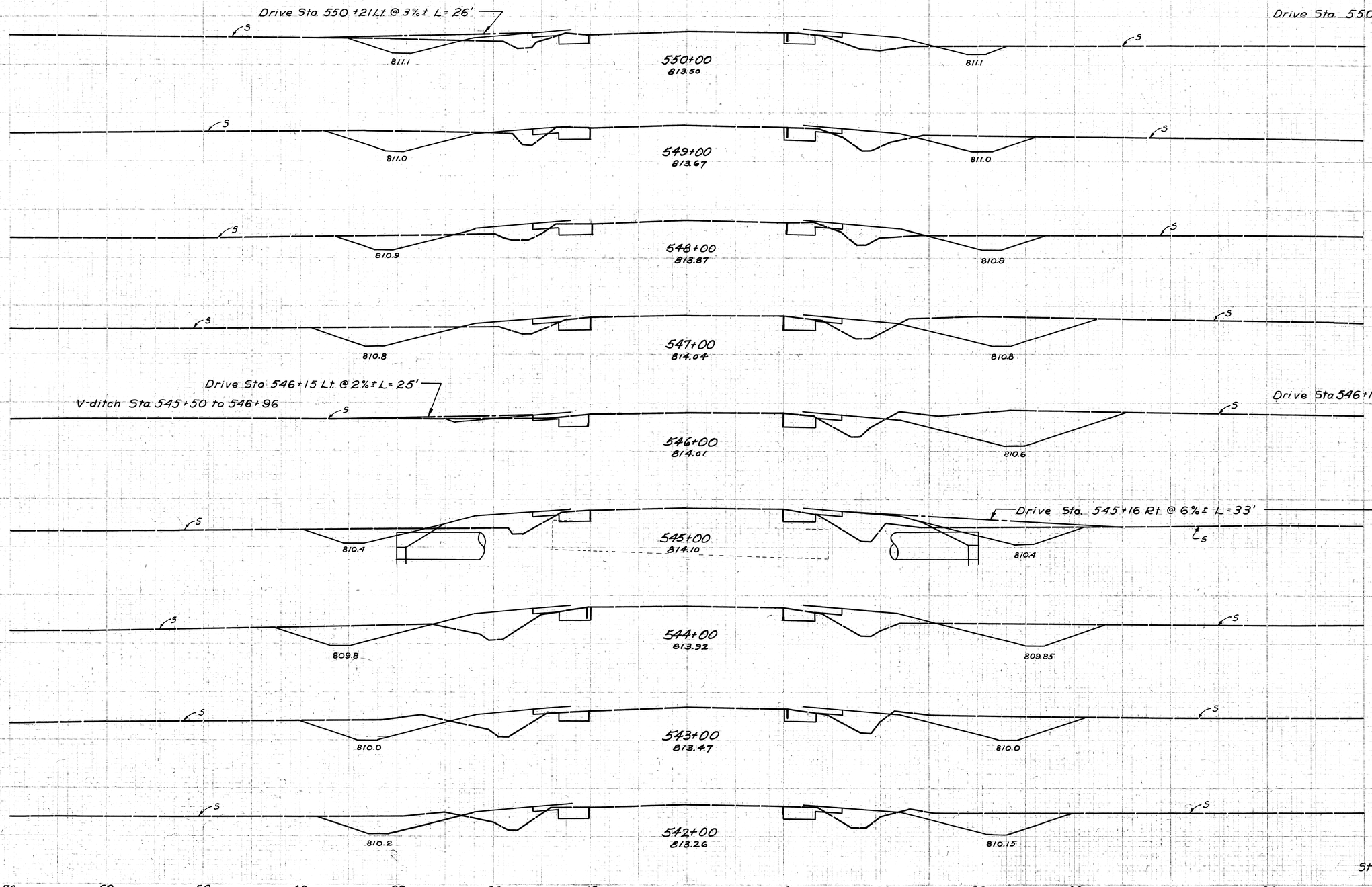
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

Sta. 533+00 — 541+00

DIV. NO. DIVISION	STATE	PROJECT	TYPE FUNCT.
2	OHIO		

85
146

LOR-82-(4.79-12.47)



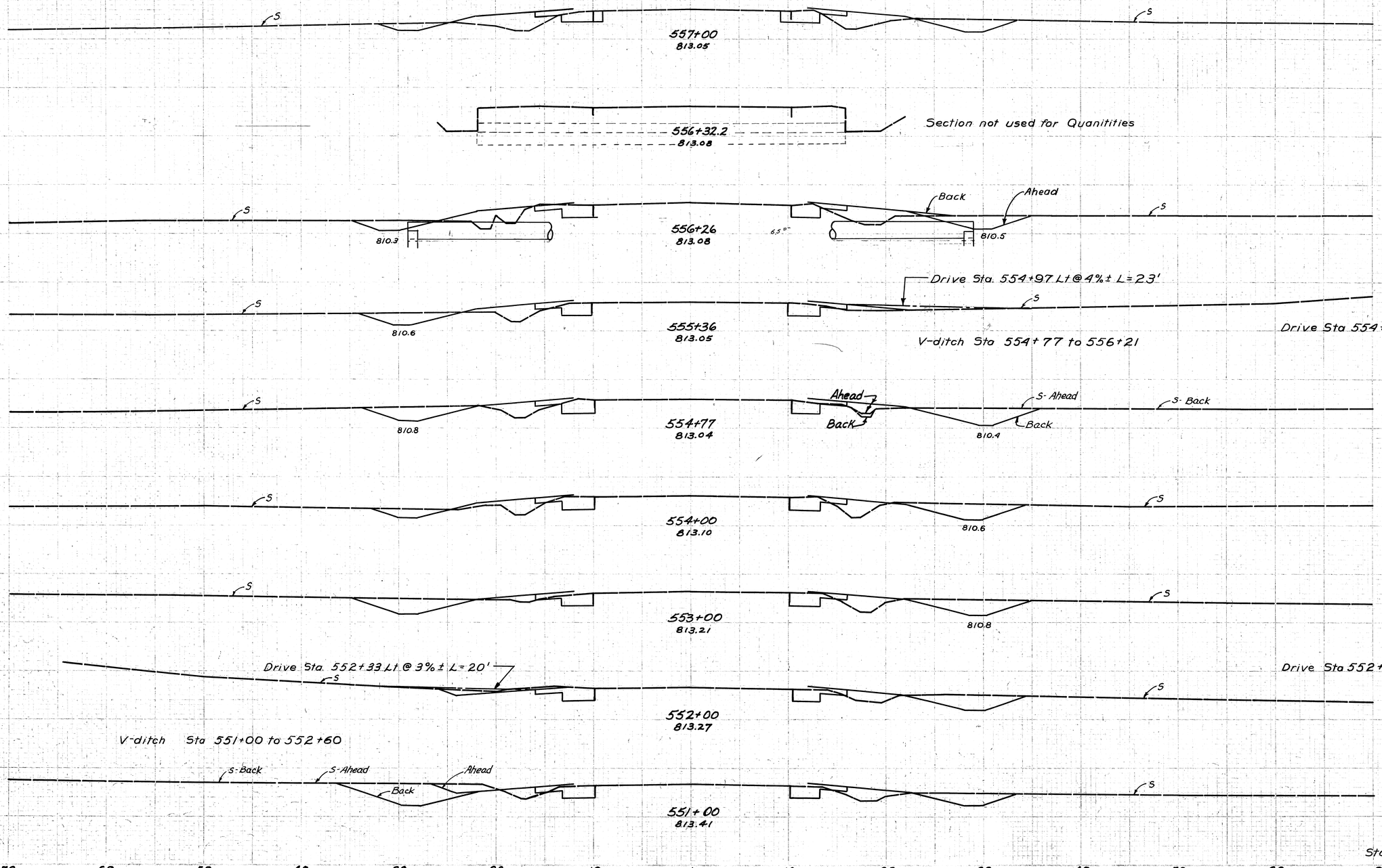
	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Drive Sta. 550+21 Lt.			1	2
	21	19		
			117	59
	42	13		
			137	59
	32	19		
			176	67
	63	17		
			226	46
Drive Sta. 546+15 Lt.			8	0
	59	8		
			172	74
Drive Sta. 545+16 Rt.			1	2
	34	32		
			157	124
	51	35		
			200	111
	57	25		
			198	83
	50	20		
			163	72
Sta. 541+00	38	19		

Sta. 542+00 – 550+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

86
146

LOR-82-(4.79-12.47)



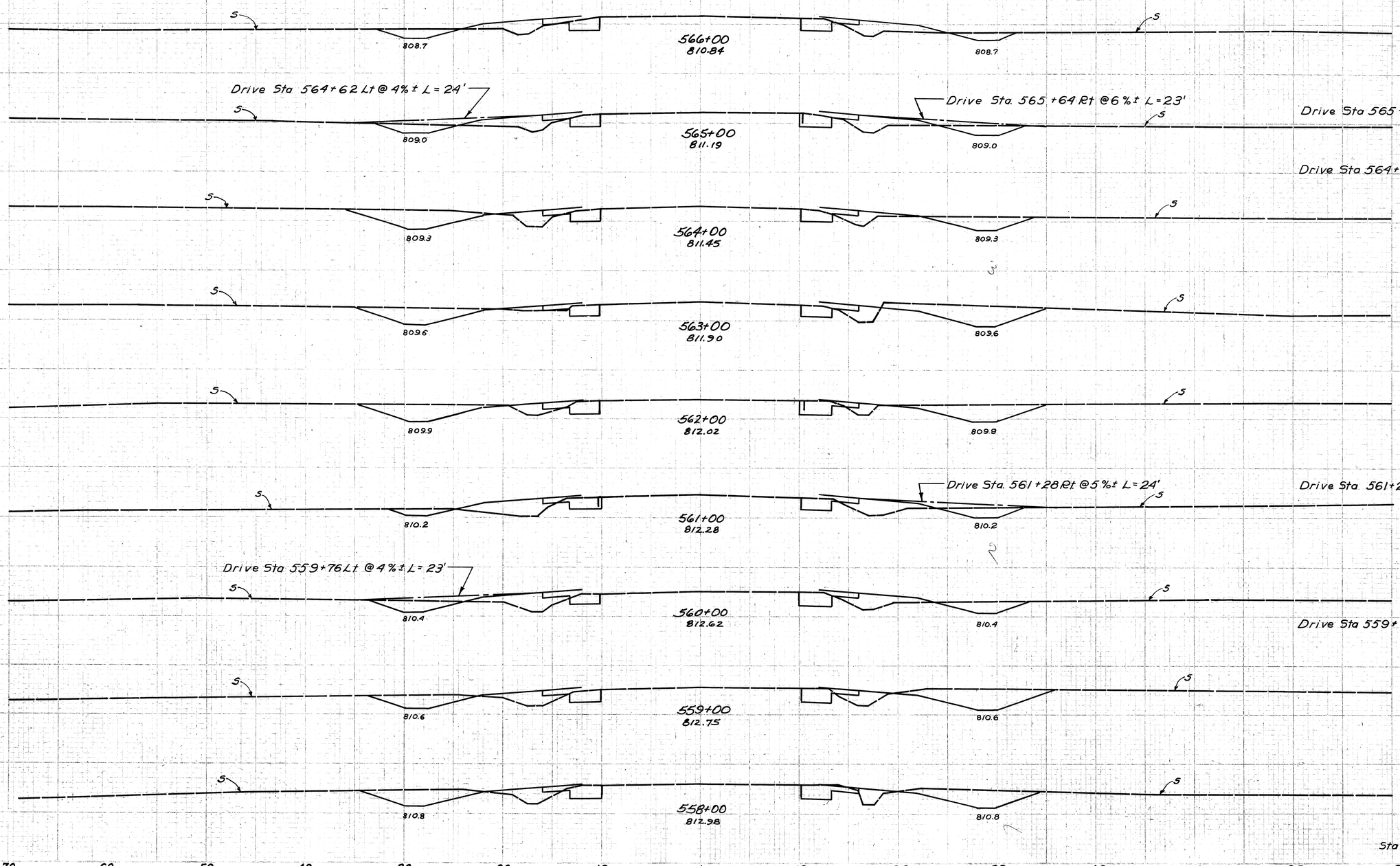
	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	23	20		
			67	53
Ahead	26	19		
Back	17	20		
			55	50
	16	10		
Drive Sta 554+97 Rt			4	1
			37	22
Ahead	18	10		
Back	32	11		
			87	34
	29	13		
			115	39
	33	8		
			107	24
Drive Sta 552+33 Lt			8	0
	25	5		
			85	30
Ahead	21	11		
Back	40	11		
			113	56
Sta. 550+00	21	19		

Sta. 551+00 – 557+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

87
146

LOR-82-(4.79-12.47)



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	17	16		
			67	63
Drive Sta 565 +64 Rt.			1	2
	19	18		
Drive Sta 564+62 Lt.			1	2
			100	52
	35	10		
			141	26
	41	4		
			150	19
	40	6		
			109	48
Drive Sta. 561+28 Rt.			1	1
	19	20		
			76	70
	22	18		
Drive Sta 559+76 Lt			1	2
			111	57
	38	13		
			144	43
	40	10		
			117	56
Sta 557 +00	23	20		

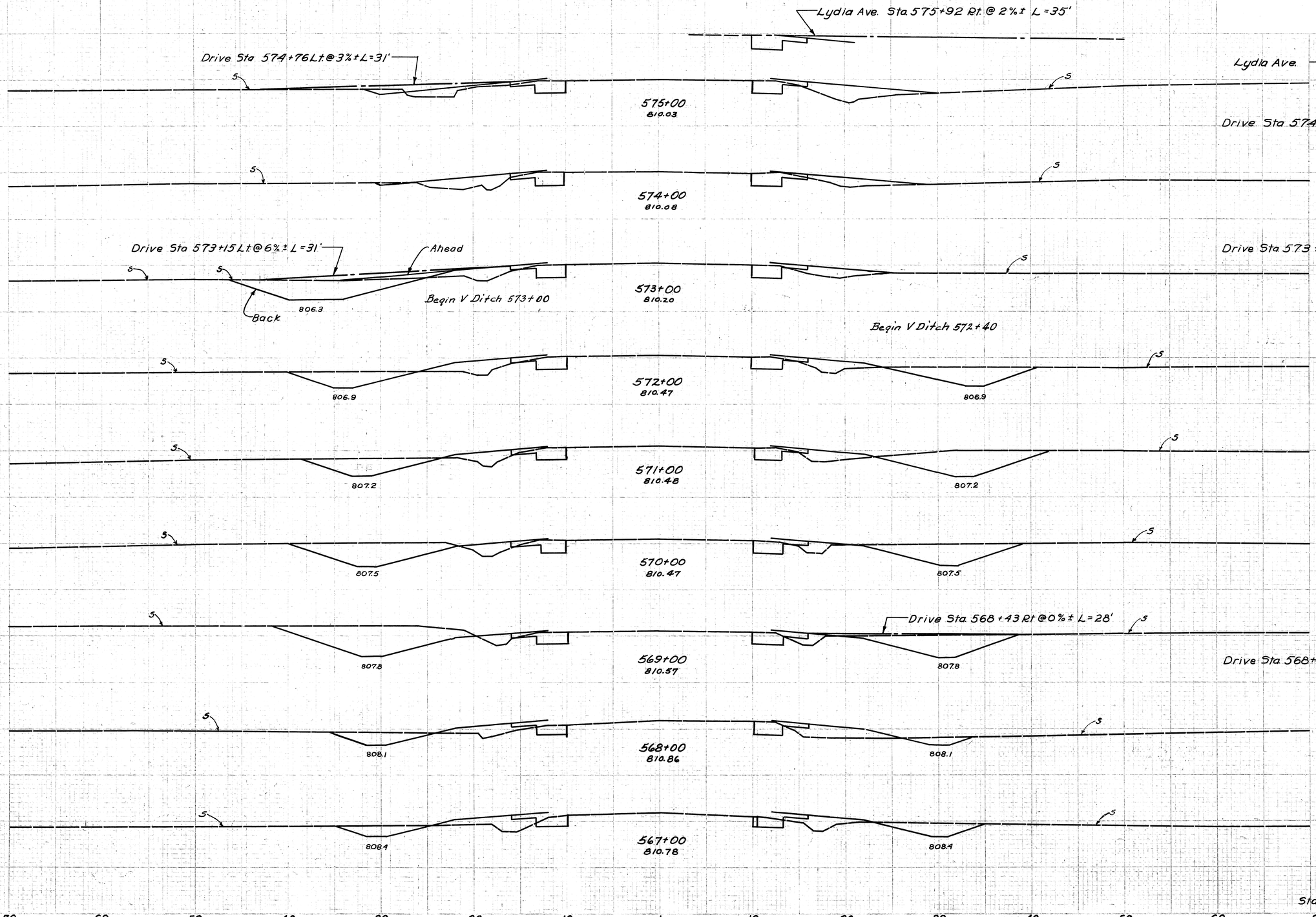
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

Sta. 558+00 - 566+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
5	OHIO		

88
146

LOR-82-(4.79-12.47)



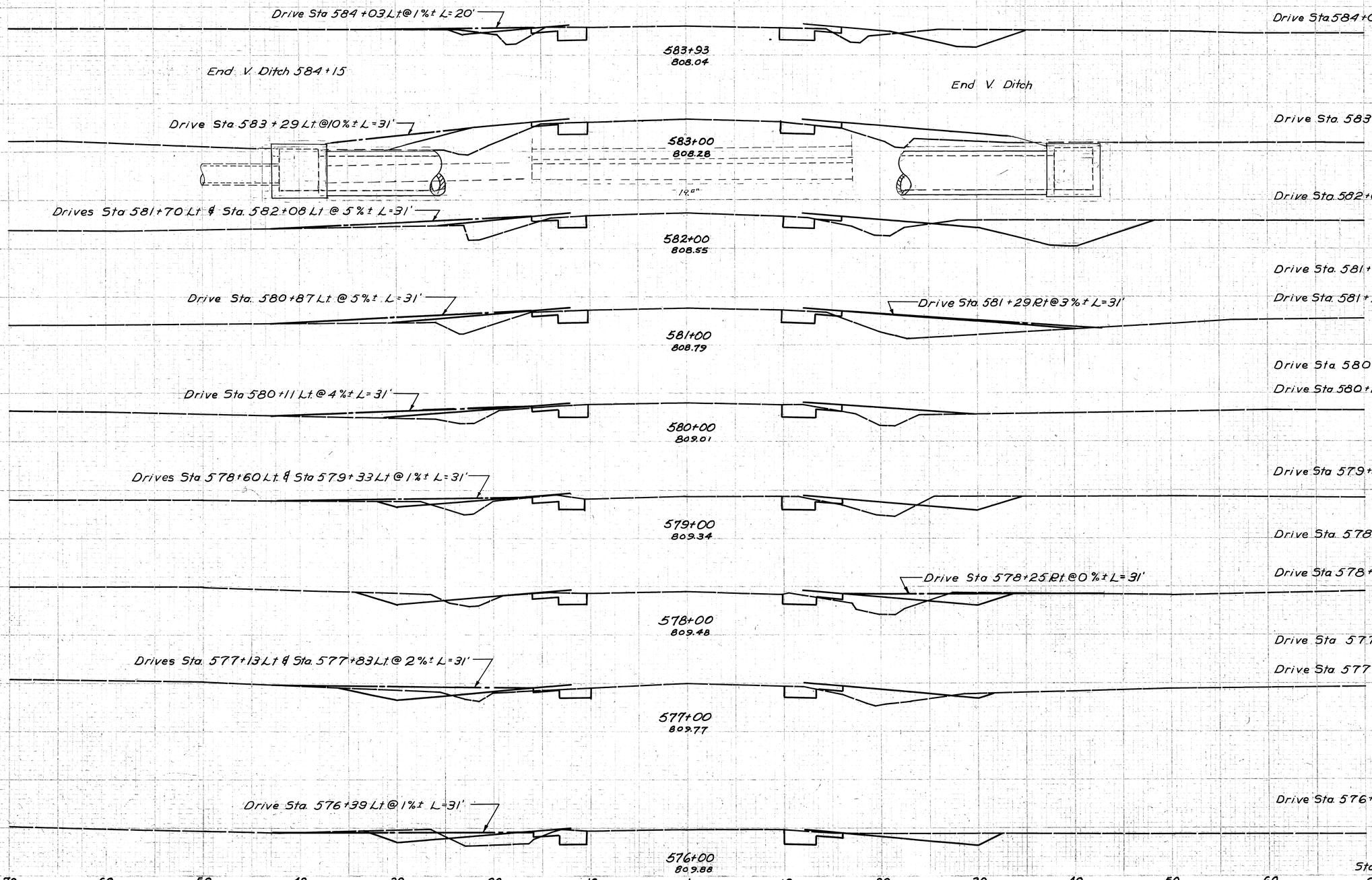
	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Lydia Ave.			45	0
	12	20		
Drive Sta 574+76 Lt.			2	2
			44	72
	12	19		
			41	63
Drive Sta 573+15 Lt.			0	3
Ahead	10	15		
Back	39	15		
			156	59
	45	17		
			185	56
	56	13		
			219	41
	62	9		
			259	28
	78	6		
Drive Sta 568+43 Rt.			1	0
			185	46
	22	19		
			87	69
	25	18		
			78	63
Sta 566+00	17	16		

Sta. 567+00 – 575+00

FED. RD. DIVISION	STATE	PROJECT	TYPE CARD
2	OHIO		

89
146

LOR-82-(4.79-12.47)



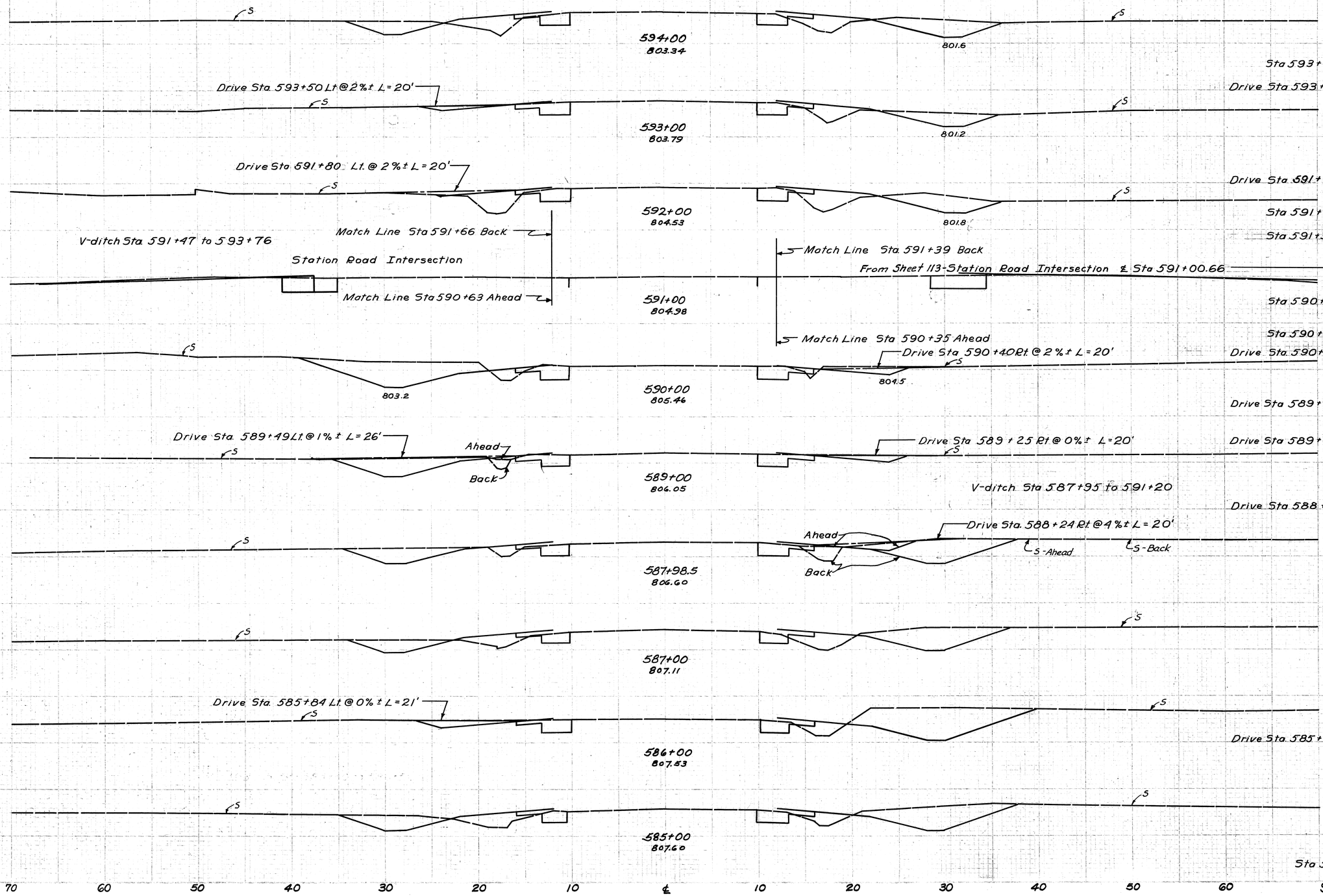
	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Drive Sta. 584+03 Lt			2	0
	26	10		
			59	93
Drive Sta. 583+29 Lt			1	6
	8	44		
			89	119
Drive Sta. 582+08 Lt			5	1
	40	20		
			94	119
Drive Sta. 581+70 Lt			5	1
Drive Sta. 581+29 Rt			1	0
	11	44		
			39	117
Drive Sta. 580+87 Lt			3	1
Drive Sta. 580+11 Lt			3	1
	10	19		
			61	61
Drive Sta. 579+33 Lt			4	1
	23	14		
Drive Sta. 578+60 Lt			4	1
			87	52
Drive Sta. 578+25 Rt			3	1
	24	14		
			74	57
Drive Sta. 577+83 Lt			2	2
Drive Sta. 577+13 Lt			2	2
	16	17		
			87	50
Drive Sta. 576+39 Lt			3	0
	31	10		
			80	56
Sta. 575+00	12	20		

Sta. 576+00 – 583+93

FED. HWY. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

90
146

LOR-82-(4.79-12.47)



		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		35	18		
				31	16
Sta 593+76	Ahead	35	18		
	Back	25	7		
				71	20
Drive Sta 593+50 Lt				9	0
		25	7		
				93	48
Drive Sta 591+80 Lt				7	0
		25	19	32	24
Sta 591+66	Ahead	25	19		
	Back	20	10	20	10
Sta 591+39	Ahead	20	10		
	Back	0	0		
From Sheet 113-Station Road Intersection & Sta 591+00.66				213	27
Sta 590+63	Ahead	0	0		
	Back	39	3		
				40	3
Sta 590+35	Ahead	39	3		
	Back	50	3	65	4
Drive Sta 590+40 Rt				8	0
		50	3		
				156	7
Drive Sta 589+49 Lt				1	0
Drive Sta 589+25 Rt				9	0
	Ahead	34	1		
	Back	34	2		
				115	9
Drive Sta 588+24 Rt				6	0
	Ahead	27	3		
	Back	50	7		
				165	40
		40	15		
				185	37
		60	5		
Drive Sta 585+84 Lt				9	0
				196	33
		46	13		
				142	46
Sta 583+93		26	10		

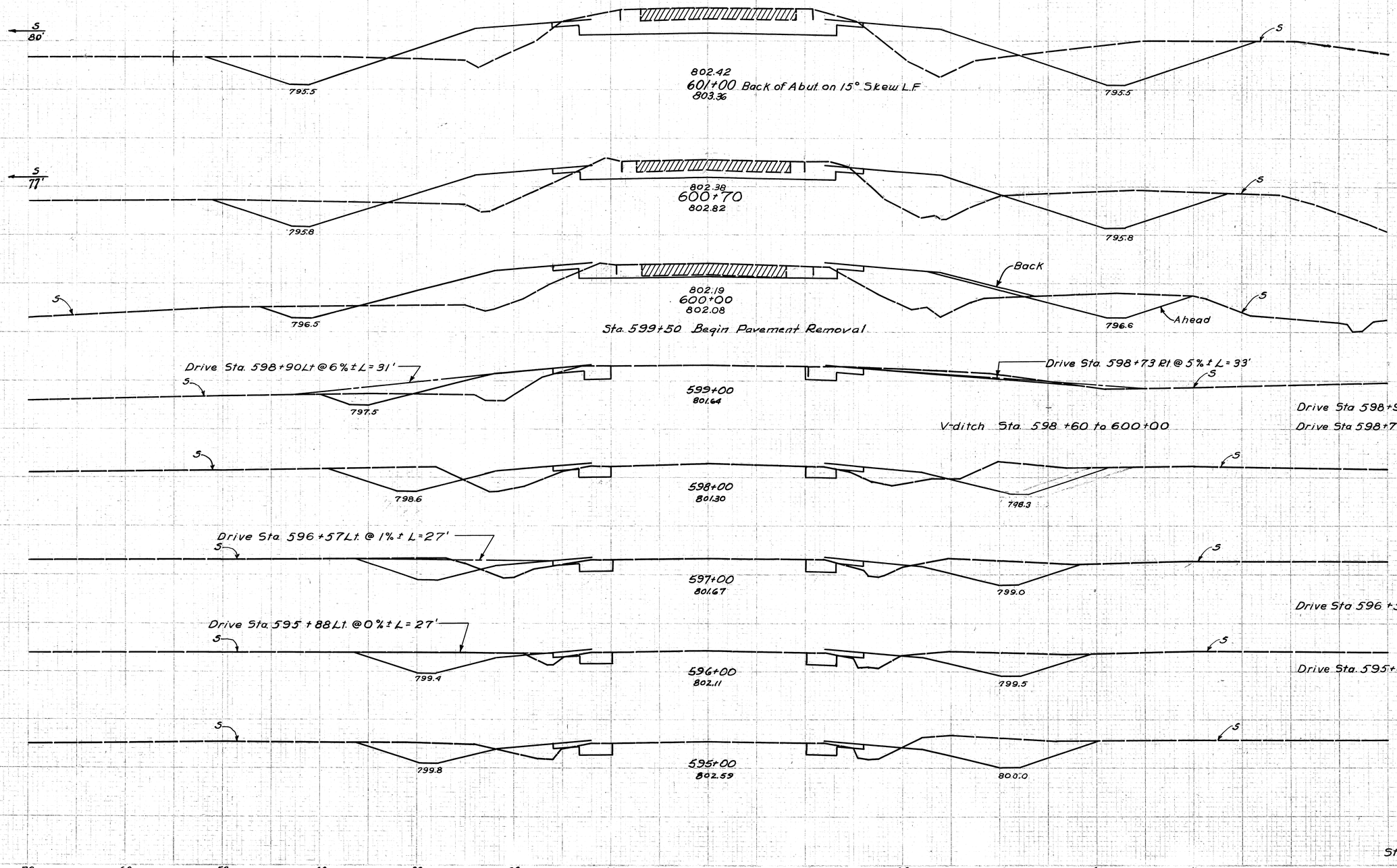
Sta. 585+00 – 594+00

FED. NO. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

91
146

LOR-82-(4.79-12.47)

BRIDGE



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Back	144	79		
				140 89
	107	82		
				202227
Ahead	49	93		
Back	26	96		
				94 219
	25	22		
Drive Sta 598+90 Lt.			1	3
Drive Sta 598+73 Rt.			60	0
				167 89
	65	26		
				219 70
	53	12		
Drive Sta 596+57 Lt.			1	1
				202 37
	56	8		
Drive Sta. 595+88 Lt.			1	0
				220 35
	63	11		
				181 54
Sta 594+00	35	18		

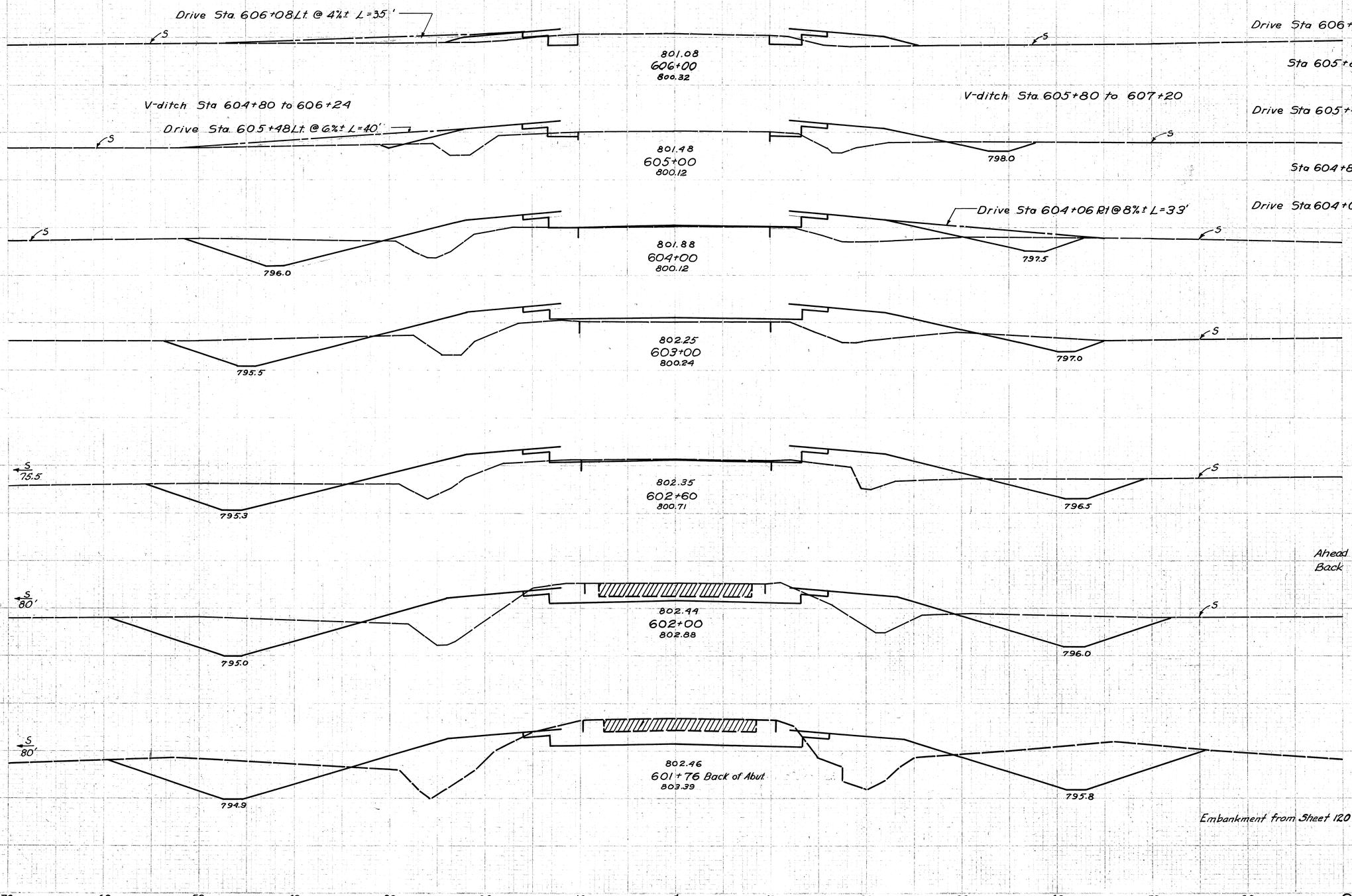
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

Sta. 595+00 - 601+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

92
146

LOR-82-(4.79-12.47)



		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Drive Sta 606+08 Lt				1	0
		6	18		
				4	13
Sta 605+80	Ahead	6	18		
	Back	10	40		
				30	118
Drive Sta 605+48 Lt				1	4
		10	40		
				7	30
Sta 604+80	Ahead	10	40		
	Back	45	61		
				134	181
Drive Sta 604+06 Rt				1	3
		45	61		
				161	276
		42	88		
				72	118
		56	72		
				23	27
Ahead	602+50	69	72		
Back	602+50	91	94		
				207	153
		132	71		
				140	74
Ahead		184	95		
Embankment from Sheet 120 (Benches)					0

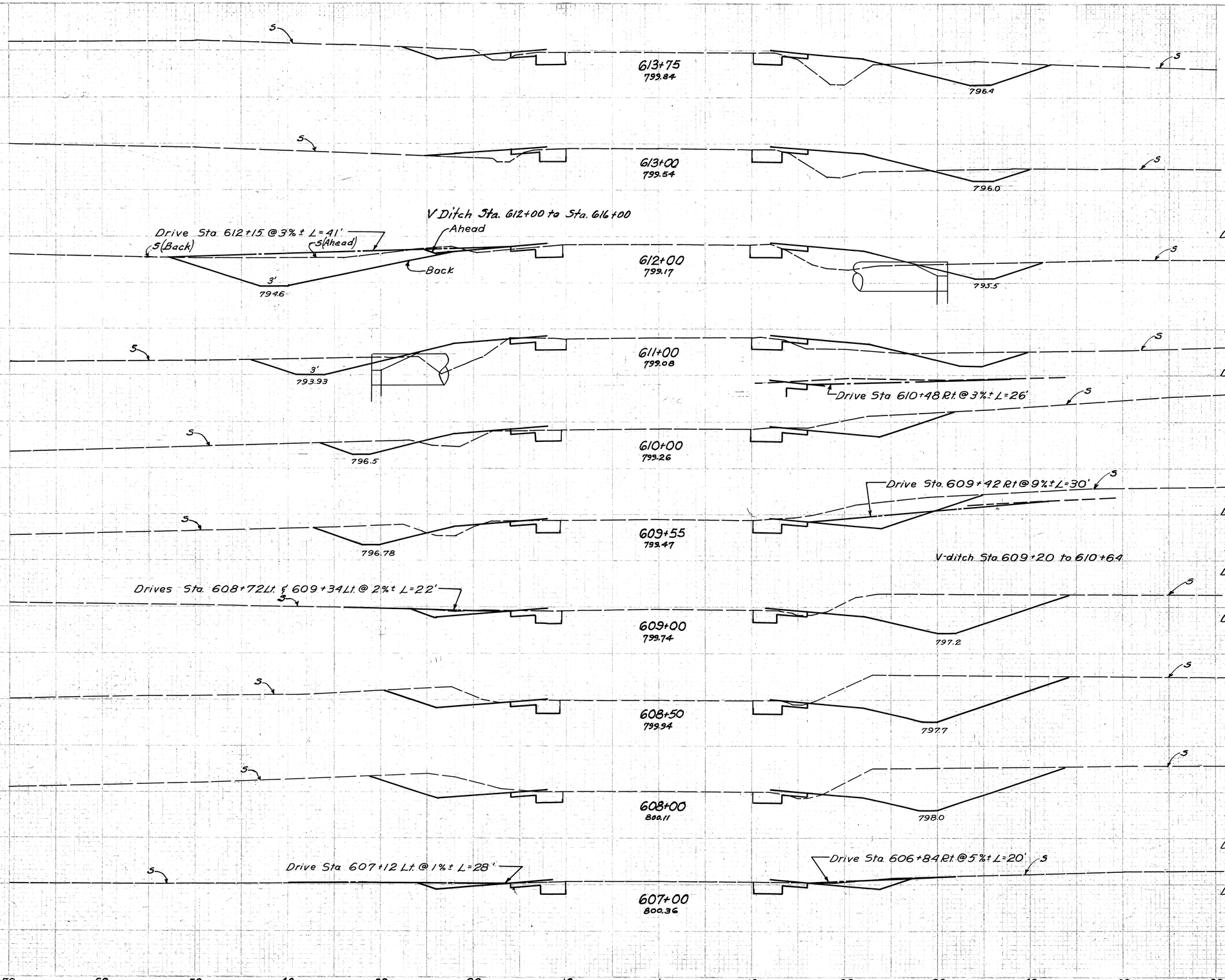
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

Sta 601+76 – 606+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

93
146

LOR-82-(4.79-12.47)



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta 613+75	43	18		
			83	68
	17	31		
			80	54
Drive Sta. 612+15 Lt.			1	0
Ahead	26	23		
Back	78	23		
			215	91
	38	26		
			148	61
Drive Sta. 610+48 Rt.			3	0
	42	7		
			85	9
	60	4		
Drive Sta 609+42 Rt.			4	0
			141	4
Drive Sta. 609+34 Lt.			6	0
	79	0		
Drive Sta. 608+72 Lt.			6	0
			173	0
	108	0		
			195	1
	102	1		
			226	2
Drive Sta 607+12 Lt.			4	0
	20	0		
Drive Sta. 606+84 Rt.			4	0
			48	33
Sta. 606+00	6	18		

F.A.P. NO. DIVISION	STATE	PROJECT	TYPE WORK
2	OHIO		

94
146

LOR-82-(4.79-12.47)

621+00
799.76
3'
795.6
S
S
797.4

620+00
800.06
Drive Sta 620+01 Rt @ 2%± L=24'
Drive Sta 619+71 Rt. @ 2%± L=24'
3'
795.5
S
S

619+00
800.24
3'
795.4
S
S

618+00
800.32
Drive Sta 617+86 Rt @ 1%± L=20'
3'
795.3
S
S

617+00
800.45
3'
795.2
S
S

616+50
800.52
3'
795.15
S
Back
Ahead
S

616+00
800.60
S-Ahead
Drive Sta 615+85 Lt @ 2%± L=44'
S-Back
Back
Ahead
3'
795.1
Drive Sta. 615+70 Rt @ 1%± L=22'
S

615+00
800.37
S
S

614+30
800.17
S
Ahead
Back
S-Ahead
796.65
Back
S-Back

614+00
799.98
Drive Sta 614+06 Lt @ 5%± L=35'
S
796.5
S

	End Area Cut	End Area Fill	Volume Cut	Volume Fill
Sta 621+00	87	11		
			319	35
	85	8		
Drive Sta 620+01 Rt.			6	0
Drive Sta 619+71 Rt.			6	0
			365	28
	112	7		
			357	52
Drive Sta 617+86 Rt.			2	0
	81	21		
			296	76
	79	20		
			142	39
Ahead	74	22		
Back	74	18		
			142	24
Ahead	79	8		
Back	8	9		
Drive Sta 615+85 Lt.			5	1
Drive Sta 615+70 Rt.			3	0
V-ditch Sta 614+30 to 616+50			52	22
	20	3		
			56	9
Ahead	23	4		
Back	66	15		
			71	17
Drive Sta 614+06 Lt.			7	0
	61	15		
			48	15
Sta 613+75	43	18		

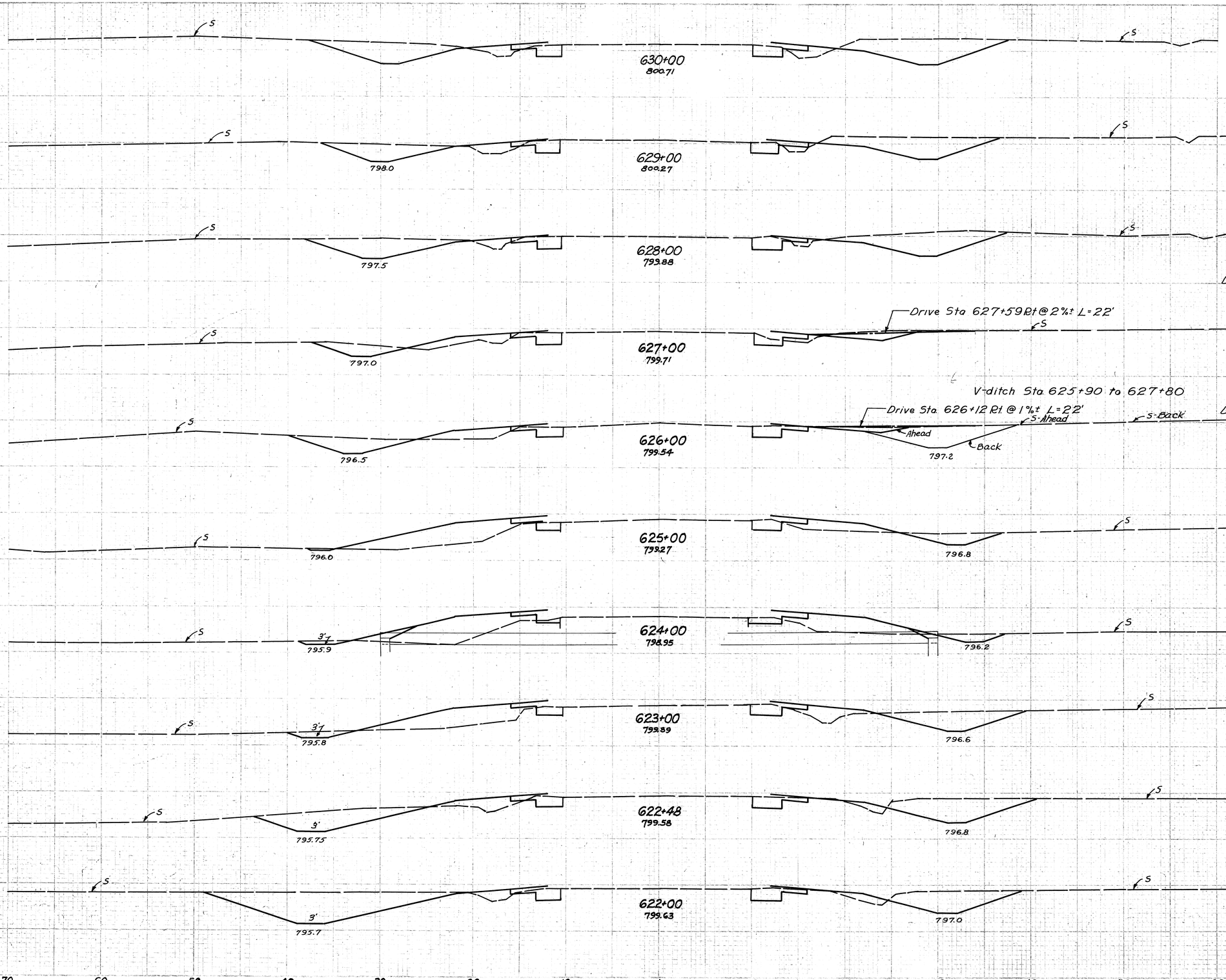
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

Sta 614+00 – 621+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

95
146

LOR-82-(4.79-12.47)



V-ditch Sta. 625+90 to 627+80

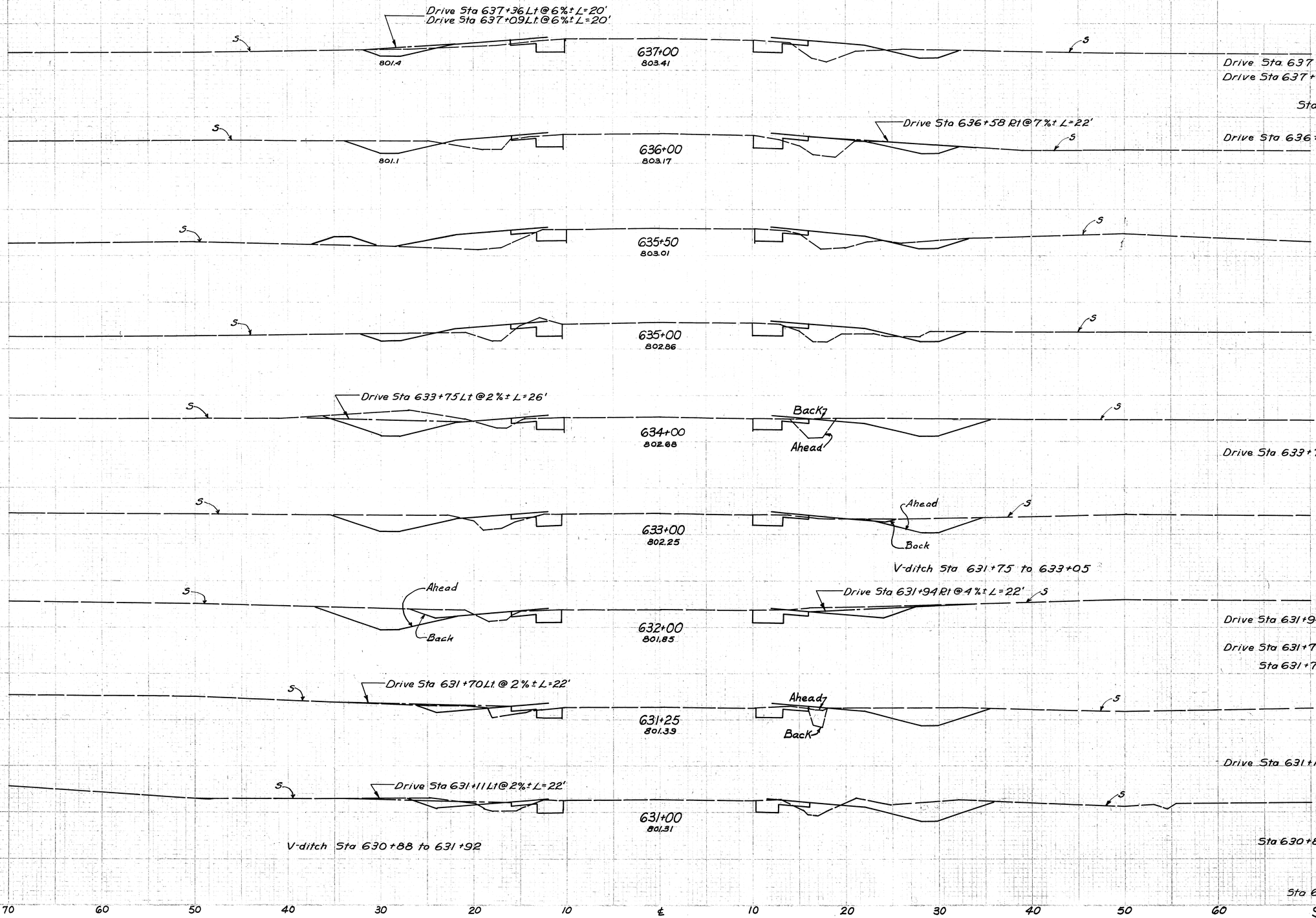
	End Area Cut	End Area Fill	Volume Cut	Volume Fill
Sta. 630+00	61	9		
			209	30
Sta. 629+00	52	7		
			204	20
	58	4		
			43	3
Sta 627+80 Ahead	58	4		
Back	23	6		
Drive Sta 627+59 Rt.			2	0
			70	30
	23	10		
			102	35
Drive Sta 626+12 Rt.			3	0
Ahead	32	9		
Back	48	9		
			89	94
	15	42		
			46	178
	10	54		
			74	165
	30	35		
			88	44
	62	11		
			131	17
	85	8		
			319	95
Sta 621+00	87	11		

Sta. 622+00 - 630+00

FED. HWY. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

96
146

LOR-82-(4.79-12.47)



	End Area Cut	End Area Fill	Volume Cut	Volume Fill
Drive Sta 637+36 Lt			1	0
Drive Sta 637+09 Lt			1	0
Sta 637+00	18	14		
			76	57
Drive Sta 636+58 Rt			1	0
	23	17		
			33	45
	12	31		
			29	45
	19	17		
			133	46
Ahead	53	8		
Back	53	3		
Drive Sta 633+75 Lt			3	0
			159	19
Ahead	33	7		
Back	23	7		
			126	19
Ahead	45	3		
Back	26	3		
Drive Sta 631+94 Rt			3	0
			33	3
Drive Sta 631+70 Lt			2	0
Sta 631+75 Ahead	45	3		
Back	29	4		
			54	8
Ahead	29	4		
Back	29	6		
			29	7
Drive Sta 631+11 Lt			2	0
	33	8		
			15	4
Sta 630+88 Ahead	33	8		
Back	61	9		
			199	29
Sta 630+00	61	9		

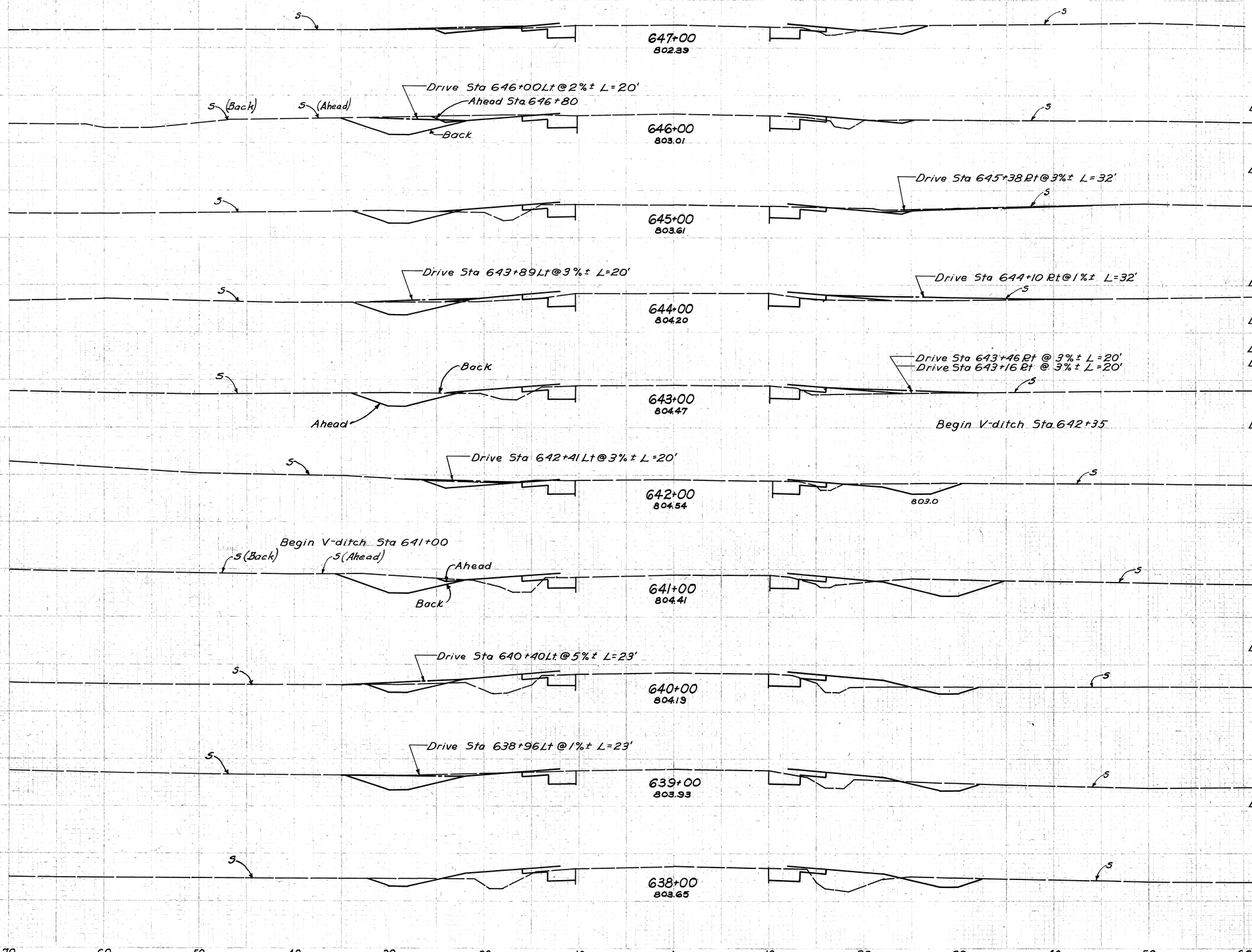
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

Sta. 631+00 – 637+00

FED. RD. DIVISION	STATE	PROJECT	TOTAL FUNDS
2	OHIO		

97
146

LOR-82-(4.79-12.47)



	End Area Cut	End Area Fill	Volume Cut	Volume Fill
Sta 647+00	13	2	10	1
Sta 646+80 Ahead	13	2		
Back	32	3		
Drive Sta. 646+00 Lt			4	0
	32	3	95	9
			94	22
Drive Sta 645+38 Rt			6	0
	19	9		
			65	26
Drive Sta 644+10 Rt			6	0
	16	5		
Drive Sta. 643+89 Lt			1	0
			63	28
Drive Sta 643+46 Rt			3	0
Drive Sta 643+16 Rt			3	0
Ahead	18	10		
Back	8	10		
			20	24
Drive Sta 642+41 Lt			2	0
Sta 642+35 Ahead	8	10		
Back	22	1		
	22	1	28	1
			80	20
Ahead	21	10		
Back	36	10		
			94	56
Drive Sta 640+40 Lt			1	0
	15	20		
			78	54
Drive Sta 638+96 Lt			2	0
	27	9		
			83	61
Sta 637+00	18	14		
	18	24		
			67	70

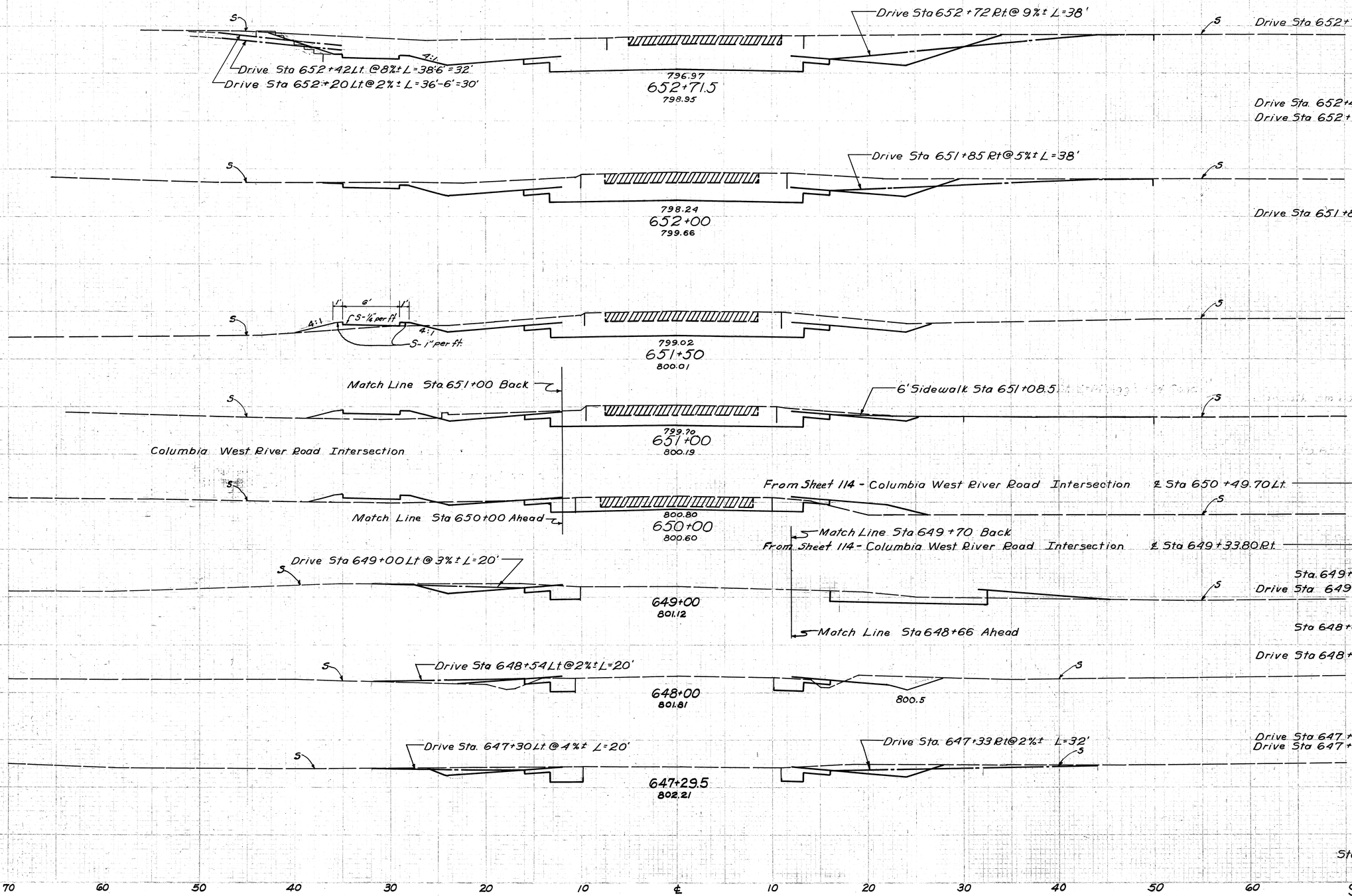
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

Sta. 638+00-647+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

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LOR-82-(4.79-12.47)



	End Area Cut	End Area Fill	Volume Cut	Volume Fill
Drive Sta 652+72 Rt.	192	0	16	0
			398	0
Drive Sta. 652+42 Lt.			4	0
Drive Sta 652+20 Lt.			4	0
	109	0		
Drive Sta 651+85 Rt.			15	0
			173	7
	78	7		
			121	15
Ahead	52	9		
Back	13	0		
			117	17
			52	24
Ahead	20	9		
Back	25	18		
			28	20
			46	9
Sta. 649+70 Ahead	25	18		
Back	15	0		
Drive Sta 649+00 Lt.			4	0
	15	0	39	0
			19	0
Sta 648+66 Ahead	15	0		
Back	27	2		
			54	7
Drive Sta 648+54 Lt.			4	0
	17	4		
			63	5
Drive Sta 647+30 Lt.			15	0
Drive Sta 647+33 Rt.			9	0
	31	0		
			24	1
Sta 647+00	13	2		

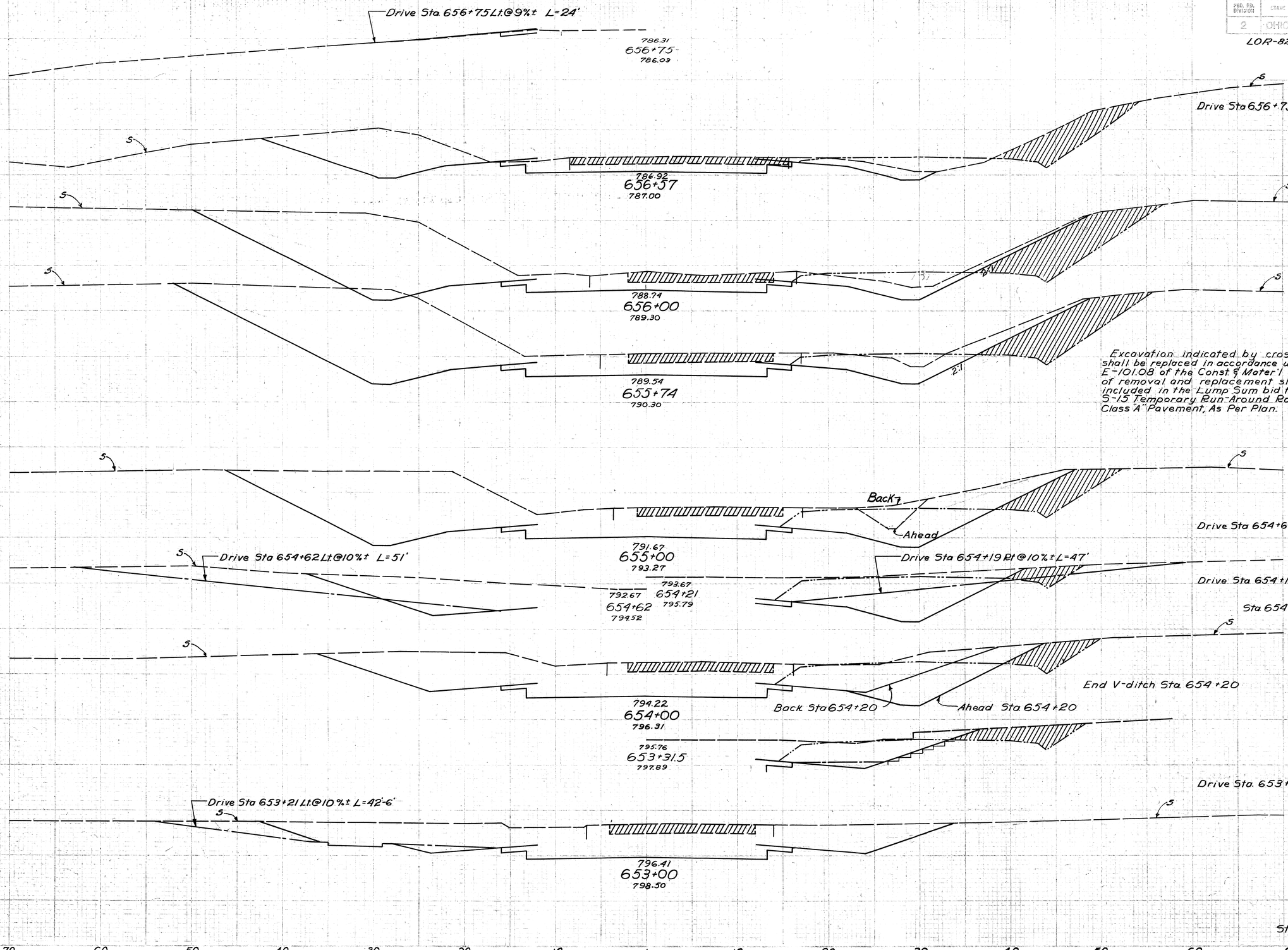
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

Sta. 647+29.5–652+71.5

FED. RD. DIVISION	STATE	PROJECT	TYPE WORK
2	OHIO		

99
146

LOR-82-(4.79-12.47)

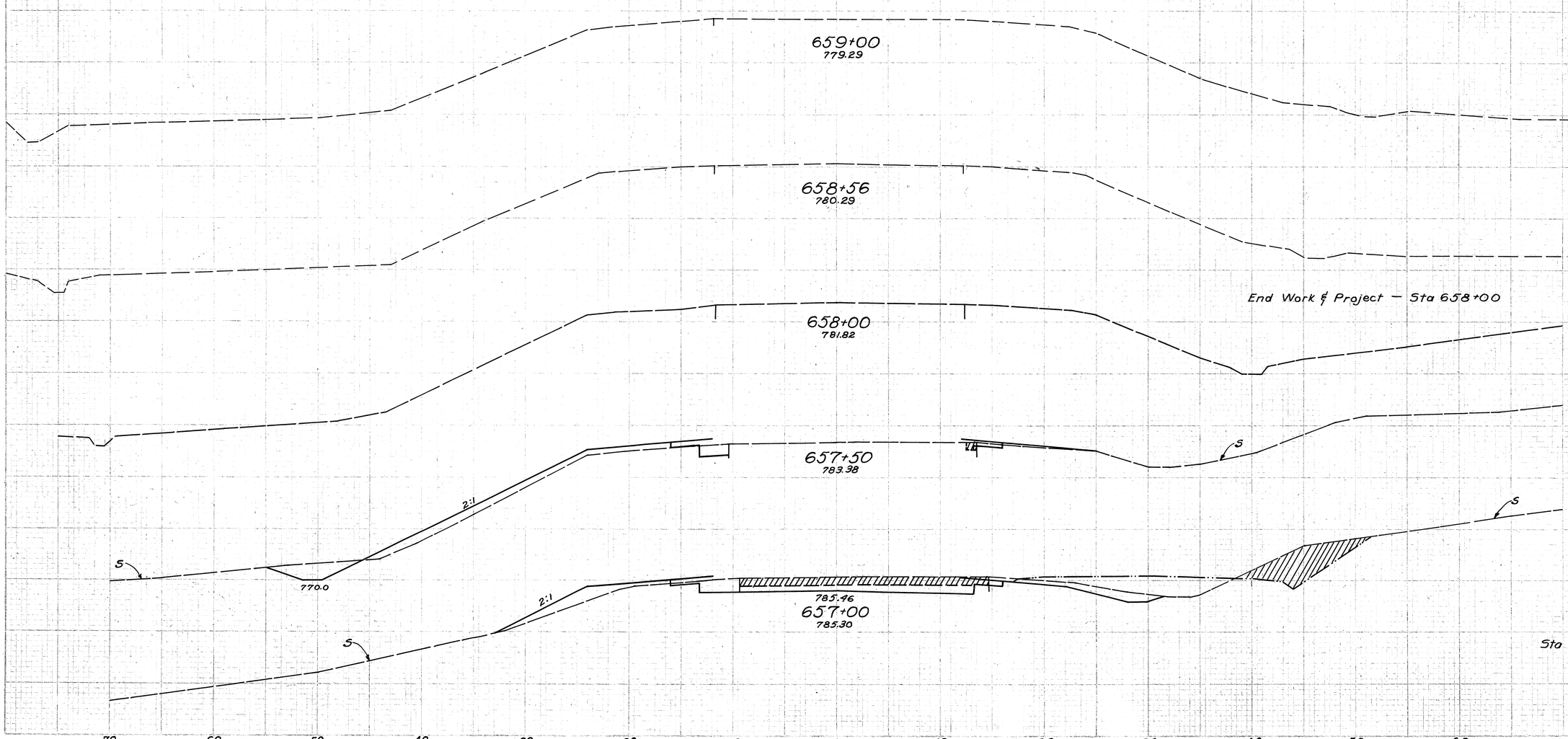


FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

100
146

LOR-82-(4.79-12.47)

	End Area Cut	End Area Fill	Volume Cut	Volume Fill
End Work & Project — Sta 658+00				
	0	0		
			13	22
	14	24		
			41	35
	30	13		
			116	10
Sta 656+57	116	0		



Sta. 657+00-659+00

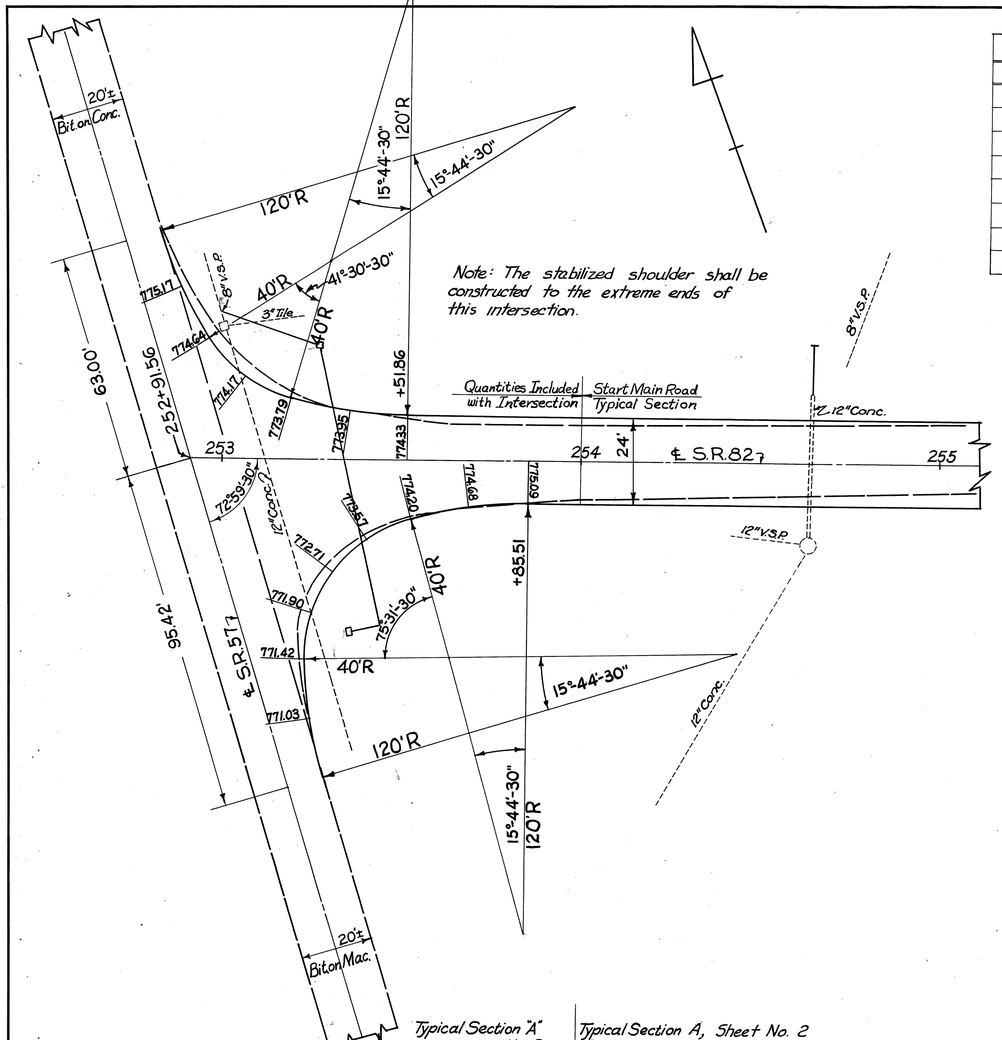
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

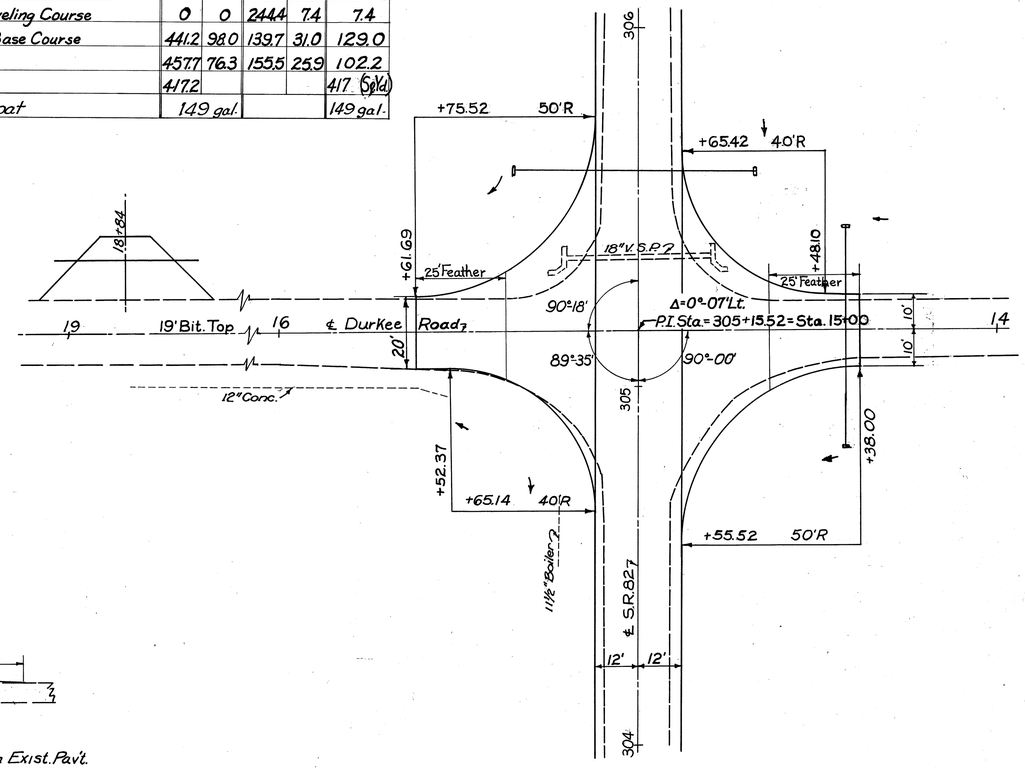
101/146

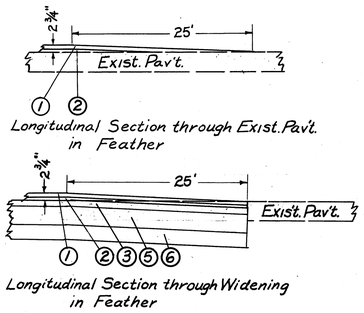
LOR-82-(4.79-12.47)

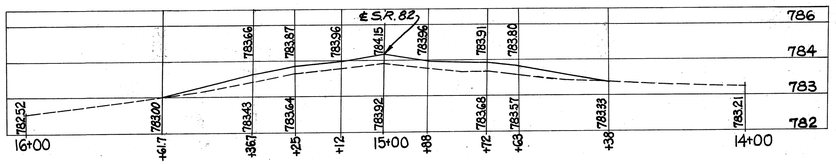
QUANTITIES

Item	Description	S.R.57 Sq.Yd.	S.R.57 Cu.Yd.	Durkee Rd. Sq.Yd.	Durkee Rd. Cu.Yd.	Totals Cu.Yd.
T-35	1½" Asphaltic Conc. Surface Course	417.2	17.4	416.7	16.2	33.6
B-35	1¼" Asphaltic Conc. Leveling Course	417.2	14.5	361.3	11.9	26.4
B-35	2¾" Asphaltic Conc. Base Course	424.8	32.5	124.0	9.5	42.0
B-35	0" Min. Asphaltic Pre-Leveling Course	0	0	244.4	7.4	7.4
B-119	8" Crushed Aggregate Base Course	44.1.2	98.0	139.7	31.0	129.0
I-22	6" Subbase	457.7	76.3	155.5	25.9	102.2
E-101	Compacted Subgrade	417.2				417 (Sq.Yd.)
T-30	Bituminous Prime Coat	149 gal.				149 gal.

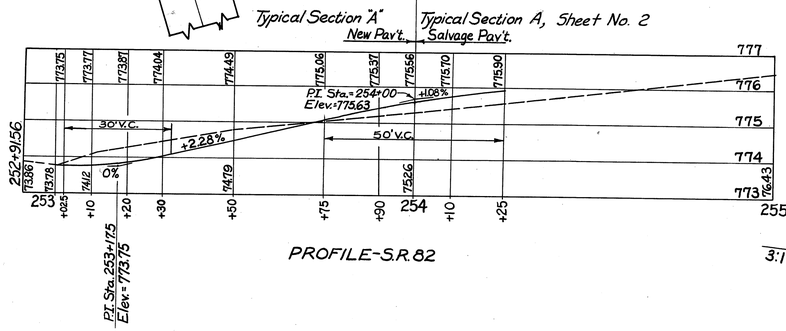






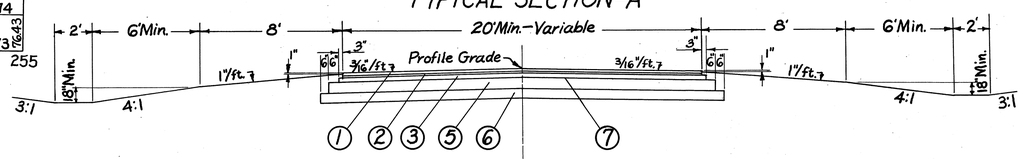


PROFILE-DURKEE ROAD
Typical Section "B"

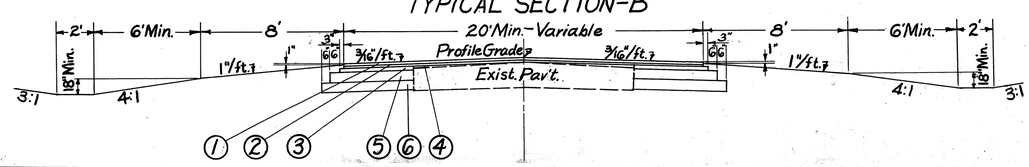


PROFILE-S.R.82

TYPICAL SECTION-"A"



TYPICAL SECTION-"B"

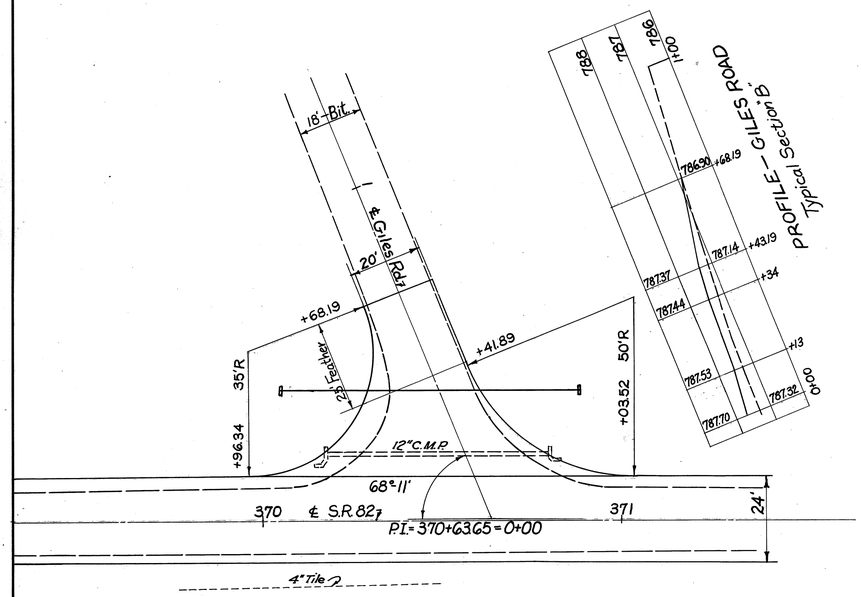


① T-35 1½" Asphaltic Conc. Surface Course Type A (70-80)
② B-35 1¼" Asphaltic Conc. Leveling Course
③ B-35 2¾" Asphaltic Conc. Base Course
④ B-35 0" Min. Asphaltic Pre-Leveling Course
⑤ B-119 8" Crushed Aggregate Base Course
⑥ I-22 6" Subbase
⑦ T-30 Bituminous Prime Coat

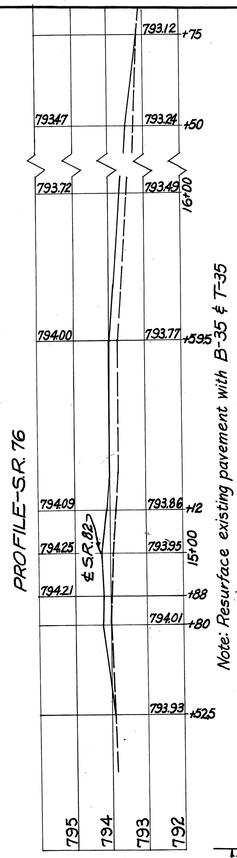
Intersections – S.R.57 – Durkee Road

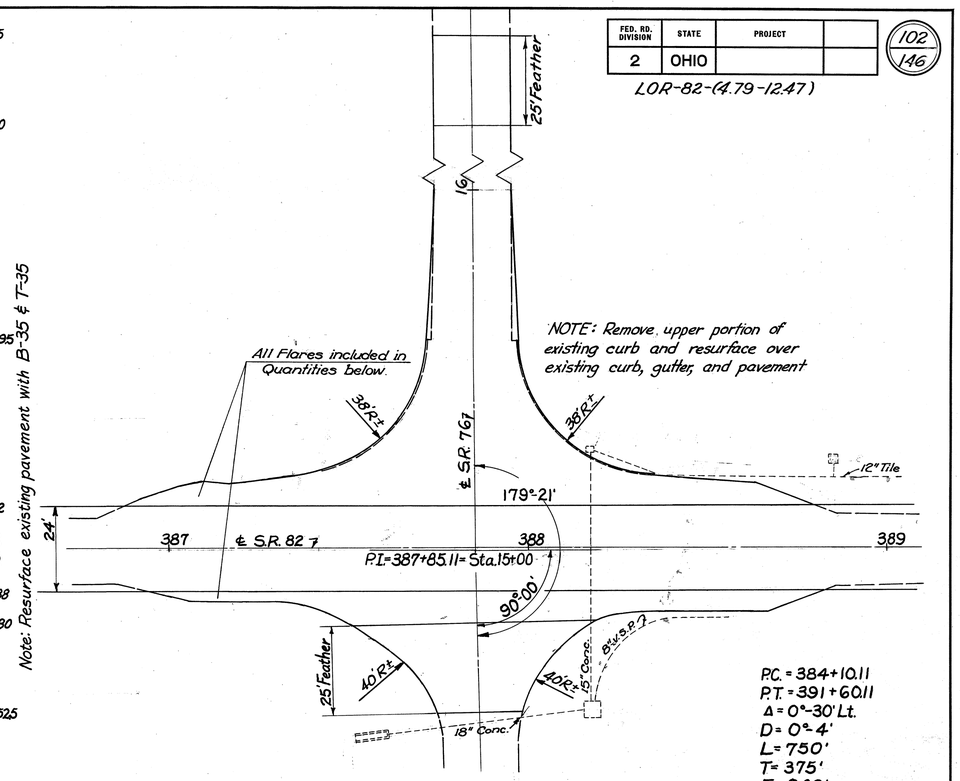
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

LOR-82-(4.79-12.47)

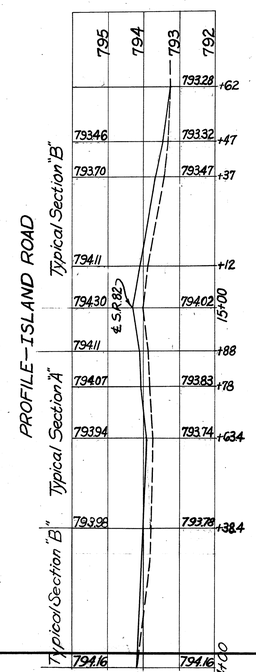


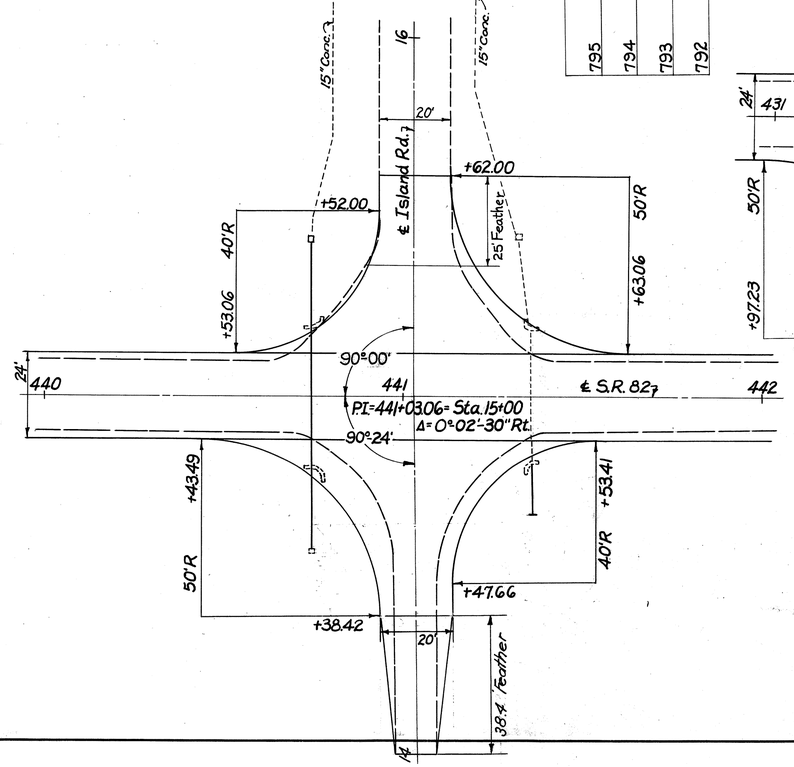
P.C. = 367+38.65
P.T. = 373+88.65
Δ = 0°-26' Rt.
D. = 0°-04'
T = 325'
L = 650'
E = 0.62'

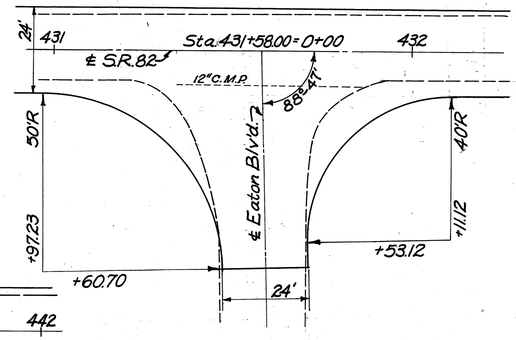


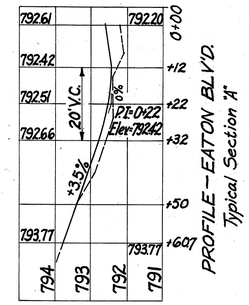


P.C. = 384+10.11
P.T. = 391+60.11
Δ = 0°-30' Lt.
D = 0°-4'
L = 750'
T = 375'
E = 0.82'









FOR TYPICAL SECTIONS, SEE SHEET NO. 101

QUANTITIES		Eaton Blvd.		Giles Rd.		S.R. 76		Island Rd.		Totals
Item	Description	Sq.Yd.	Cu.Yd.	Sq.Yd.	Cu.Yd.	Sq.Yd.	Cu.Yd.	Sq.Yd.	Cu.Yd.	Cu.Yd.
T-35	1½" Asphaltic Conc. Surface Course	2269	9.5	213.8	8.3	862.2	34.2	483.7	19.5	71.5
B-35	1¼" Asphaltic Conc. Leveling Course	2269	7.9	203.9	6.0	7866	25.5	450.4	15.0	54.4
B-35	2¾" Asphaltic Conc. Base Course	2305	17.6	53.0	4.1	96	0.8	264.2	22.9	45.4
B-35	0" Min. Asphaltic Pre-Leveling Course	0	0	0	0	297.8	*8.5	123.6	5.5	14.0
B-119	8" Crushed Aggregate Base Course	238.4	52.9	61.7	13.8	24.5	5.5	286.9	69.3	147.5
I-22	6" Subbase	2462	41.0	69.9	11.7	29.0	4.9	305.9	55.3	112.9
T-30	Bituminous Prime Coat	81 Gal.						53 Gal.		134 Gal.

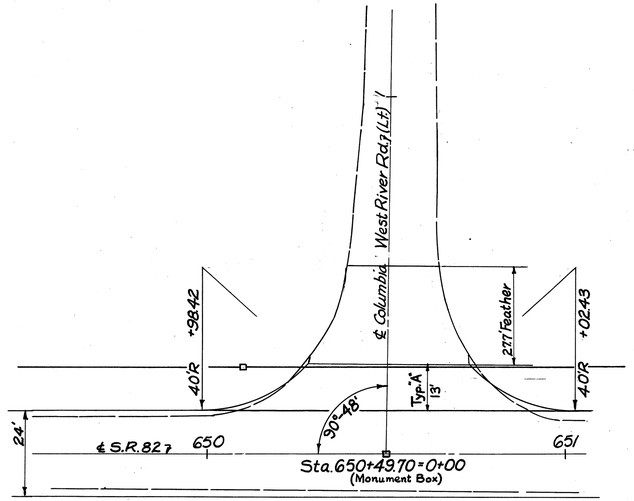
* 6.0 Cu.Yd. to be used between Sta. 15+60 and 16+50 to strengthen weak pavement.

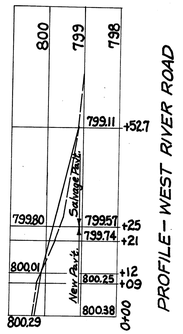
Intersections — Giles Rd. — S.R. 76 — Island Rd. — Eaton Blvd.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

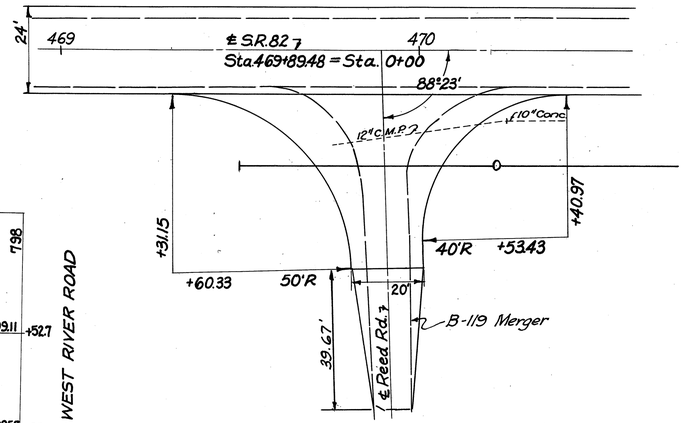
103/146

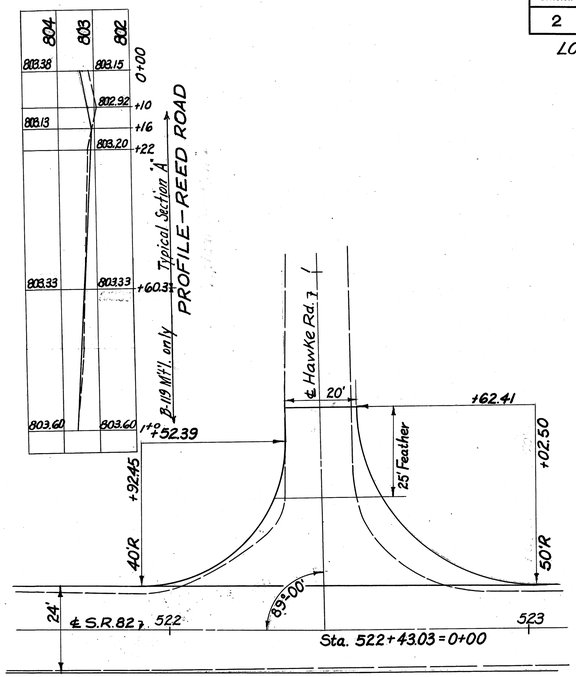
LOR-82-(4.79-12.47)

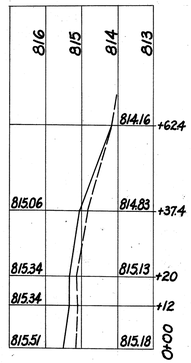




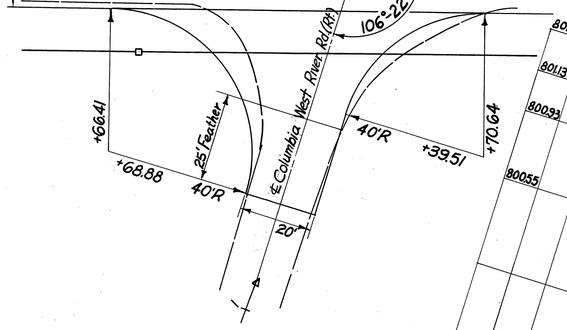
PROFILE - WEST RIVER ROAD





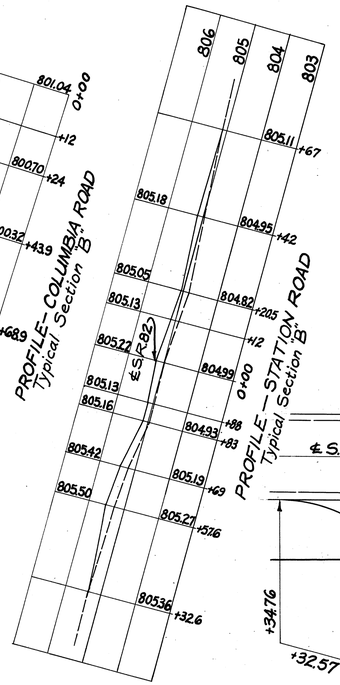


PROFILE - HAWKE ROAD
Typical Section "B"

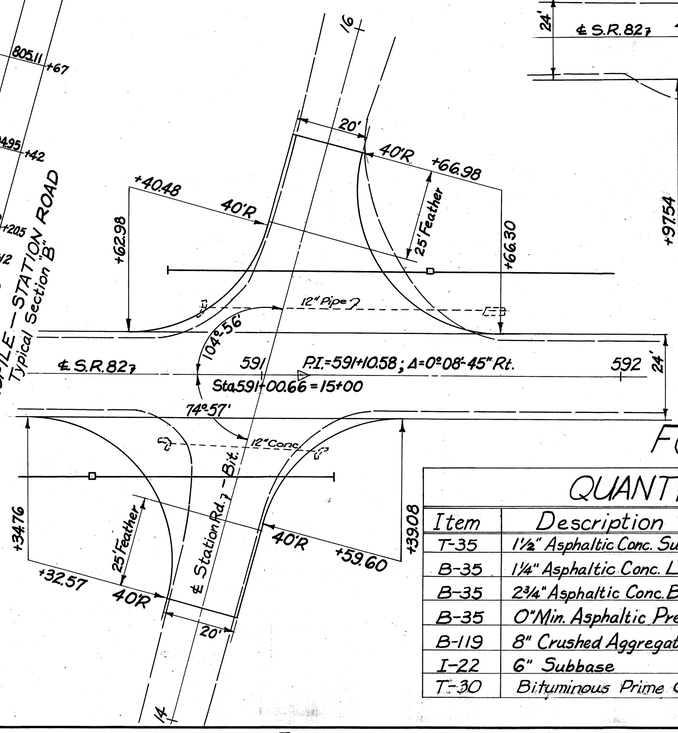


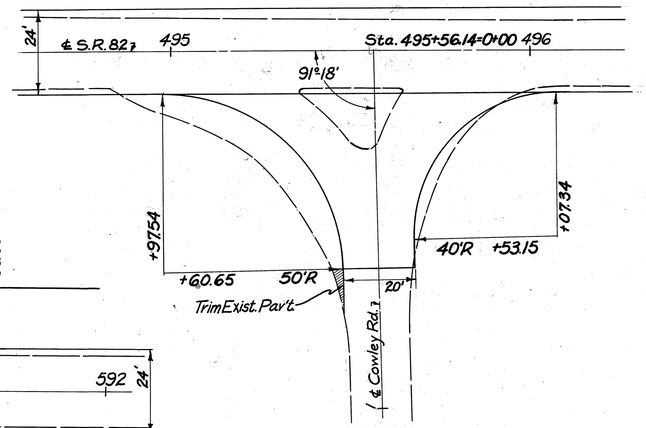


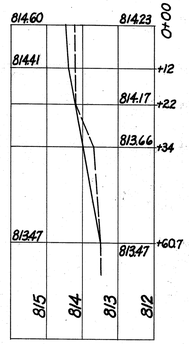
PROFILE - COLUMBIA ROAD
Typical Section "B"



PROFILE - STATION ROAD
Typical Section "B"







PROFILE - COWLEY ROAD
Typical Section "A"

FOR TYPICAL SECTIONS, SEE SHEET NO. 101

QUANTITIES		Cowley Rd.		Hawke Rd.		Station Rd.		Reed Rd.		Columbia – W. River Rd. (Rt.)		(Lt.) Rd.		Totals
Item	Description	Sq.Yd.	Cu.Yd.	Sq.Yd.	Cu.Yd.	Sq.Yd.	Cu.Yd.	Sq.Yd.	Cu.Yd.	Sq.Yd.	Cu.Yd.	Sq.Yd.	Cu.Yd.	Cu.Yd.
T-35	1½" Asphaltic Conc. Surface Course	2053	8.6	2092	8.1	5533.9	21.8	2044	8.5	3106	12.3	2675	10.3	69.6
B-35	1¼" Asphaltic Conc. Leveling Course	2053	7.1	177.4	5.6	491.1	15.9	204.4	7.1	278.8	9.1	224.3	7.0	51.8
B-35	2¾" Asphaltic Conc. Base Course	209.2	16.0	57.4	4.4	8.8	0.7	208.3	15.9	37.5	2.9	89.0	6.8	46.7
B-35	0" Min. Asphaltic Pre-Leveling Course	0	0	116.6	5.6	0	0	0	0	51.0	1.9	0	0	7.5
B-119	8" Crushed Aggregate Base Course	217.8	48.4	65.2	14.5	23.9	5.3	234.2	52.0	29.5	6.6	92.4	20.5	143.4
I-22	6" Subbase	226.8	37.8	73.1	12.2	34.5	5.8	225.1	37.5	25.4	4.2	95.7	16.0	113.5
T-30	Bituminous Prime Coat	7.3 Gal.						7.3 Gal.				31 Gal.		17.7 Gal.

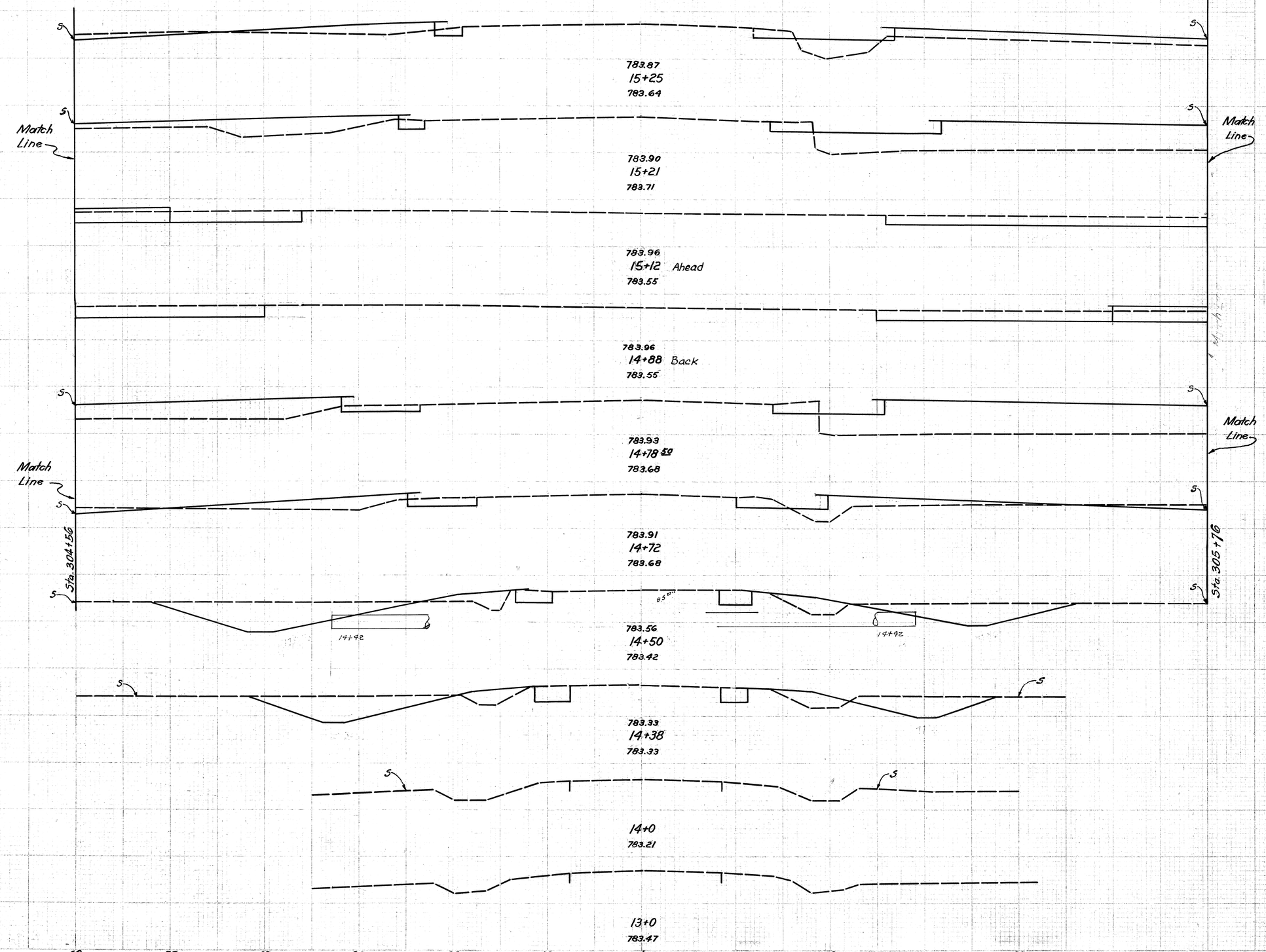
*4.0 Cu.Yds. to be used between Sta 0+60.33 and 1+10 for Widening & Leveling

Intersections — Cowley Rd. — Reed Rd. — Hawke Rd. — Station Rd. — Columbia Rd. — West River Rd.

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

104
146

LOR-82-(4.79-12.47)



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	9	63		
			1	16
	6	151		
			12	26
Ahead	65	3		
Back	0	0		
			0	0
Ahead	0	0		
Back	60	5		
			12	33
	9	180		
			2	26
	10	39		
			39	23
	86	18		
			34	8
	65	16		
			46	11
	0	0		

Carried to Sheet 52

146 143

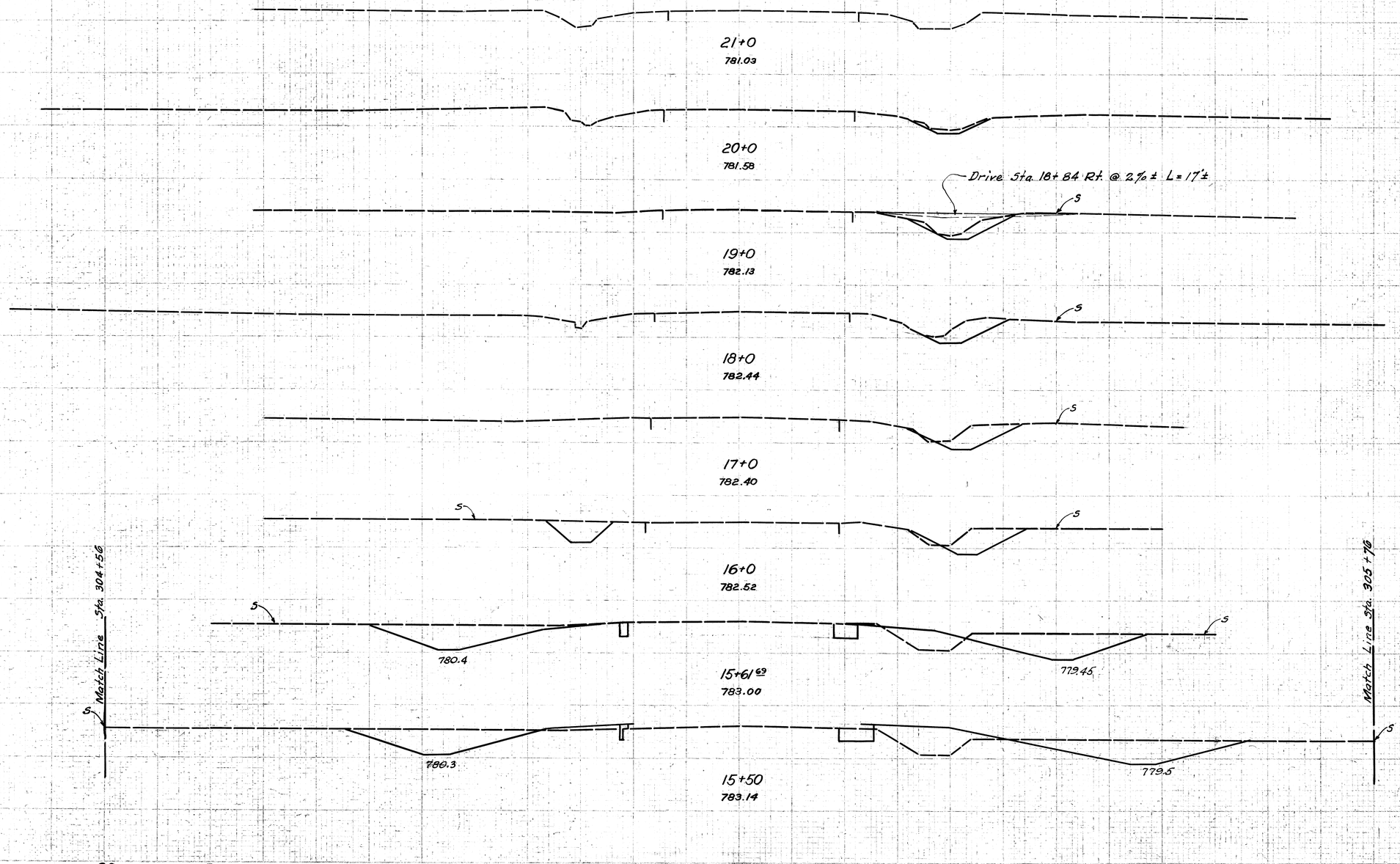
70 60 50 40 30 20 10 ℄ 10 20 30 40

STA. 305+15.52 INTERSECTION - DURKEE ROAD

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

105
146

LOR-82-(4.79-12.47)



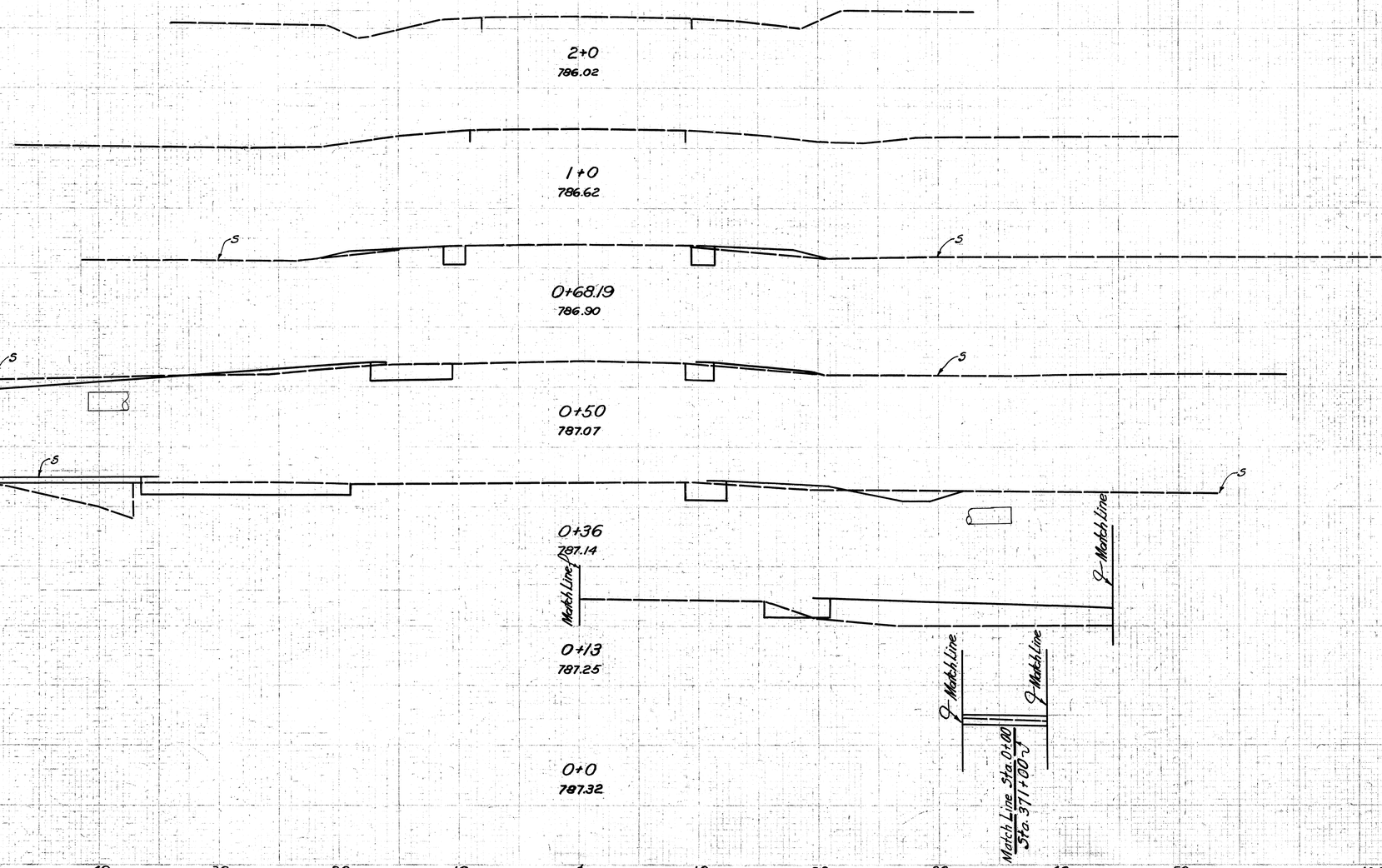
	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	0	0		
				2 0
	1	0		
Drive Sta. 18+84 Rt.			9	0
	4	0		
			20	0
	7	0		
				26 0
	7	0		
				48 2
	19	1		
				52 8
	54	11		
				24 7
	59	21		
Carried to Sheet 52				181 17

STA. 305+15.52 INTERSECTION - DURKEE ROAD

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

106
146

LOR-82-(4.79-12.47)

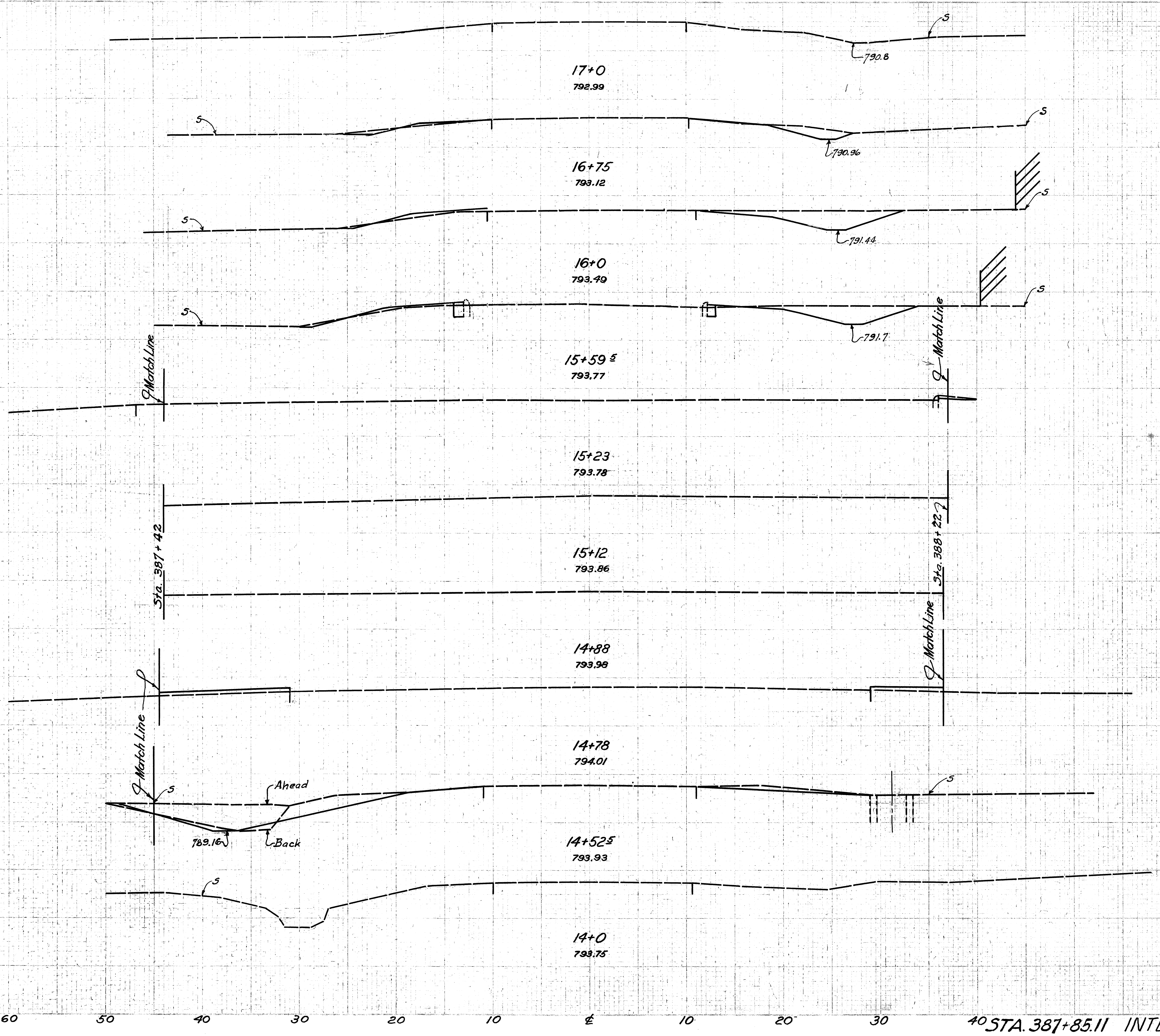


	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta. 1+0	0	0		
			3	2
			5	6
			7	2
			15	3
			11	6
			29	18
			14	27
			3	45
			1	11
Sta. 0+0	2	0		
Totals carried to Sheet 61			36	48

STA. 370+63.65 INTERSECTION - GILES ROAD

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			107 146

LOR-82-(4.79-12.47)



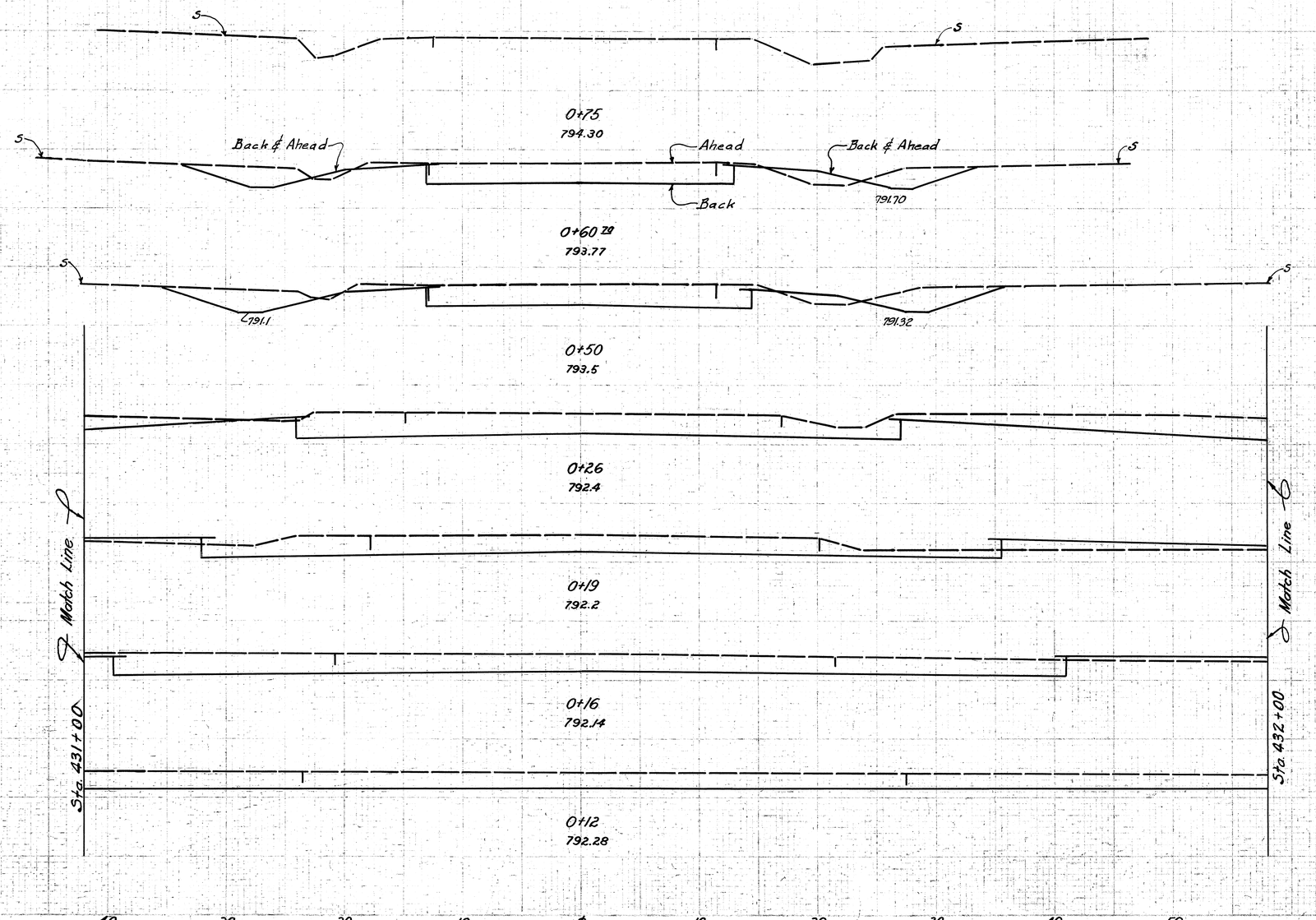
	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	0	0		
			3	0
	7	0		
			39	1
	21	1		
			29	2
Ahead	18	1		
Back	20	1		
			14	1
	0	0		
	0	0		
			0	1
	0	6		
			21	3
Ahead	47	0		
Back	21	1		
			20	1
	0	0		
Carried to Sheet 63			106	8

STA. 387+85.11 INTERSECTION - S.R. 76

FED. HWY. DIVISION	STATE	PROJECT	
2	OHIO		

108
146

LOR-82-(4.79-12.47)



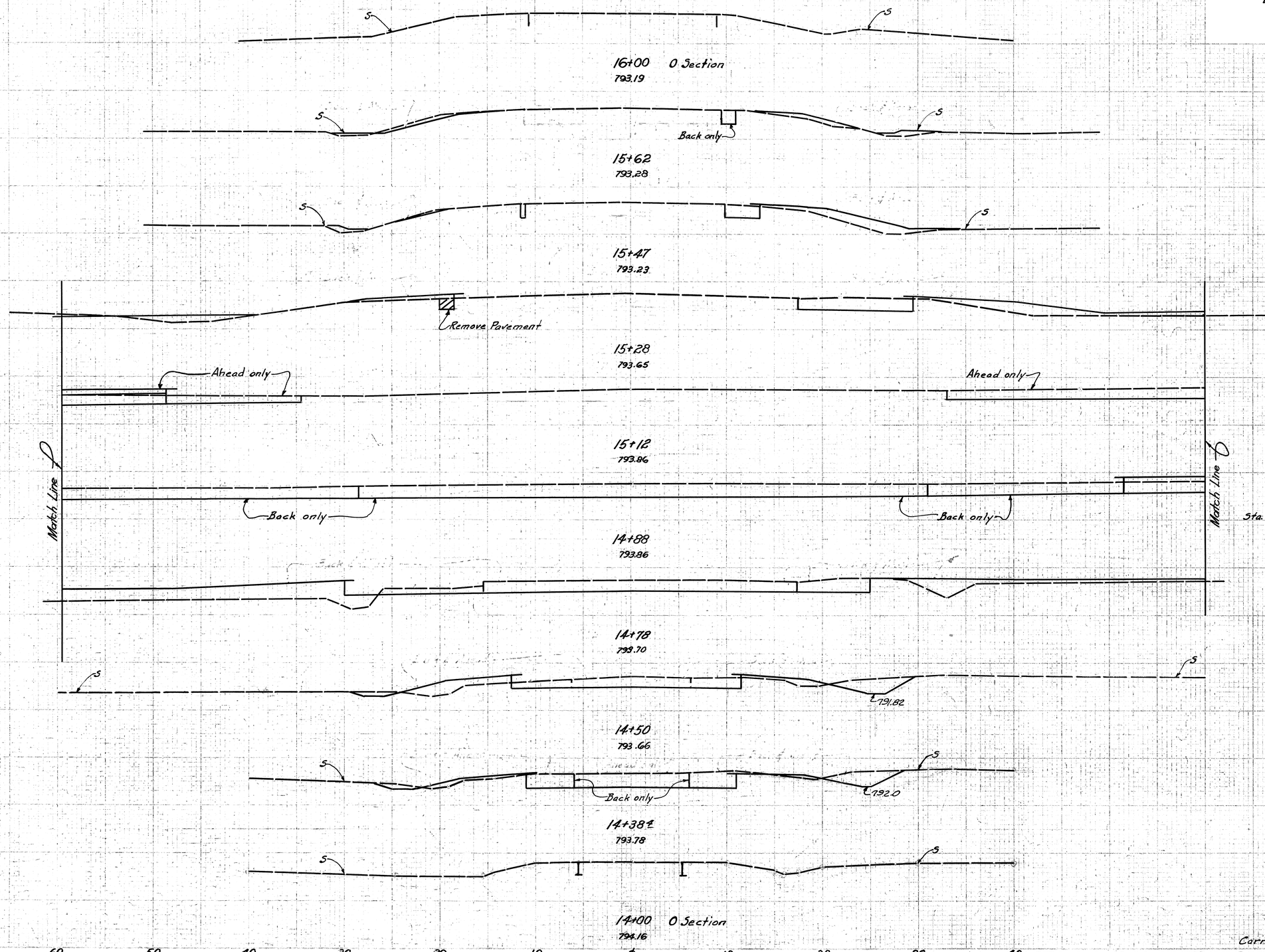
	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	0	0		
			7	2
Ahead	26	6		
Back	72	6		
			30	2
	80	3		
			96	2
	135	1		
			28	2
	86	18		
			12	1
	127	8		
			20	1
	140	0		
Totals carried to Sheet 69			193	10

STA.431+58.00 INTERSECTION - EATON BLVD.

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

109
146

LOR-82-(4.79-12.47)



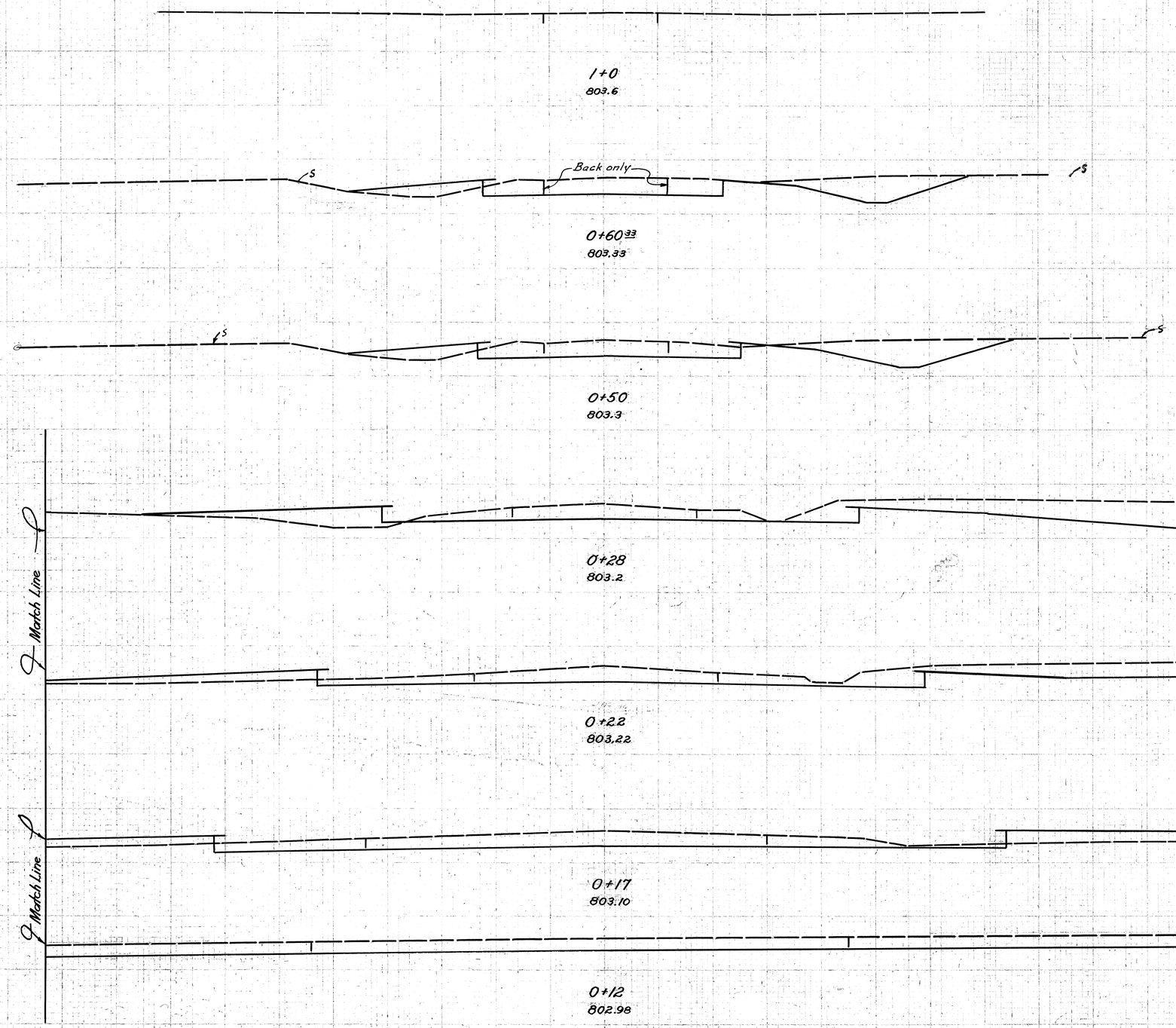
	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	0	0		
			2	3
Ahead	2	5		
Back	4	5		
			3	6
	6	15		
			8	16
	16	30		
			19	9
Ahead	51	0		
Back	0	0		
			0	0
Sta. 14+88 Ahead	0	0		
Back	156	4		
			39	13
	55	65		
			46	42
	33	16		
			17	4
Ahead	47	3		
Back	29	3		
			21	2
	0	0		
Carried to Sheet 71			155	95

STA. 441+03.06 INTERSECTION - ISLAND ROAD

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

110
146

LOR-82-(4.79-12.47)



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	0	0		
			27	9
Ahead	37	12		
Back	54	12		
			23	4
	65	10		
			63	13
	89	21		
			20	4
	89	18		
			15	5
	75	38		
			18	4
	119	0		
Carried to Sheet 74			166	39

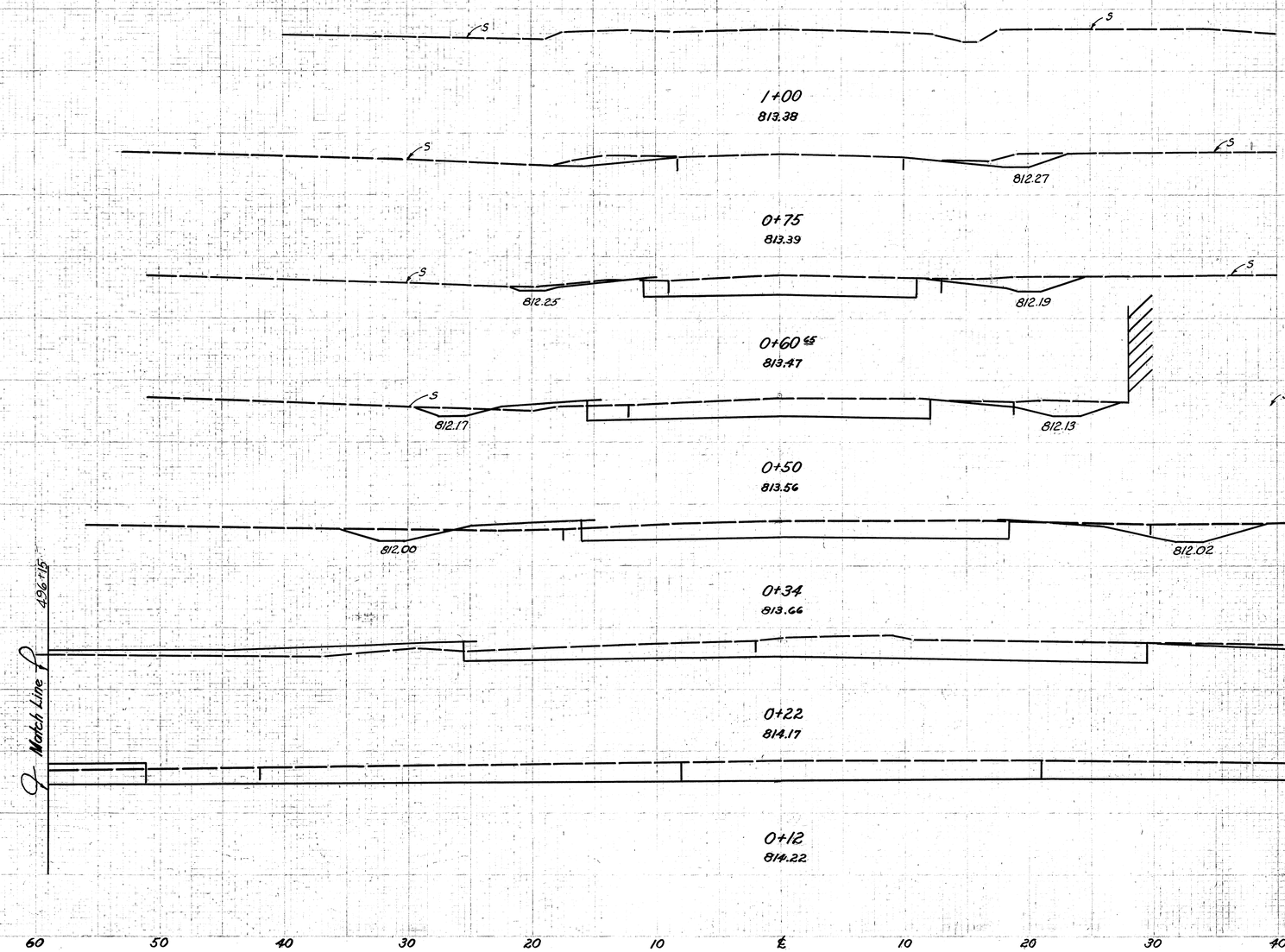
60 50 40 30 20 10 ℄ 10 20 30 40

STA. 469+89.48 INTERSECTION - REED ROAD

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

111
146

LOR-82-(4.79-12.47)



End Area		Volume	
Cut	FILL	Cut	FILL
0	0		
		2	2
5	5		
		13	1
44	0		
		19	1
50	2		
		34	2
65	4		
		33	5
82	19		
		46	4
164	4		

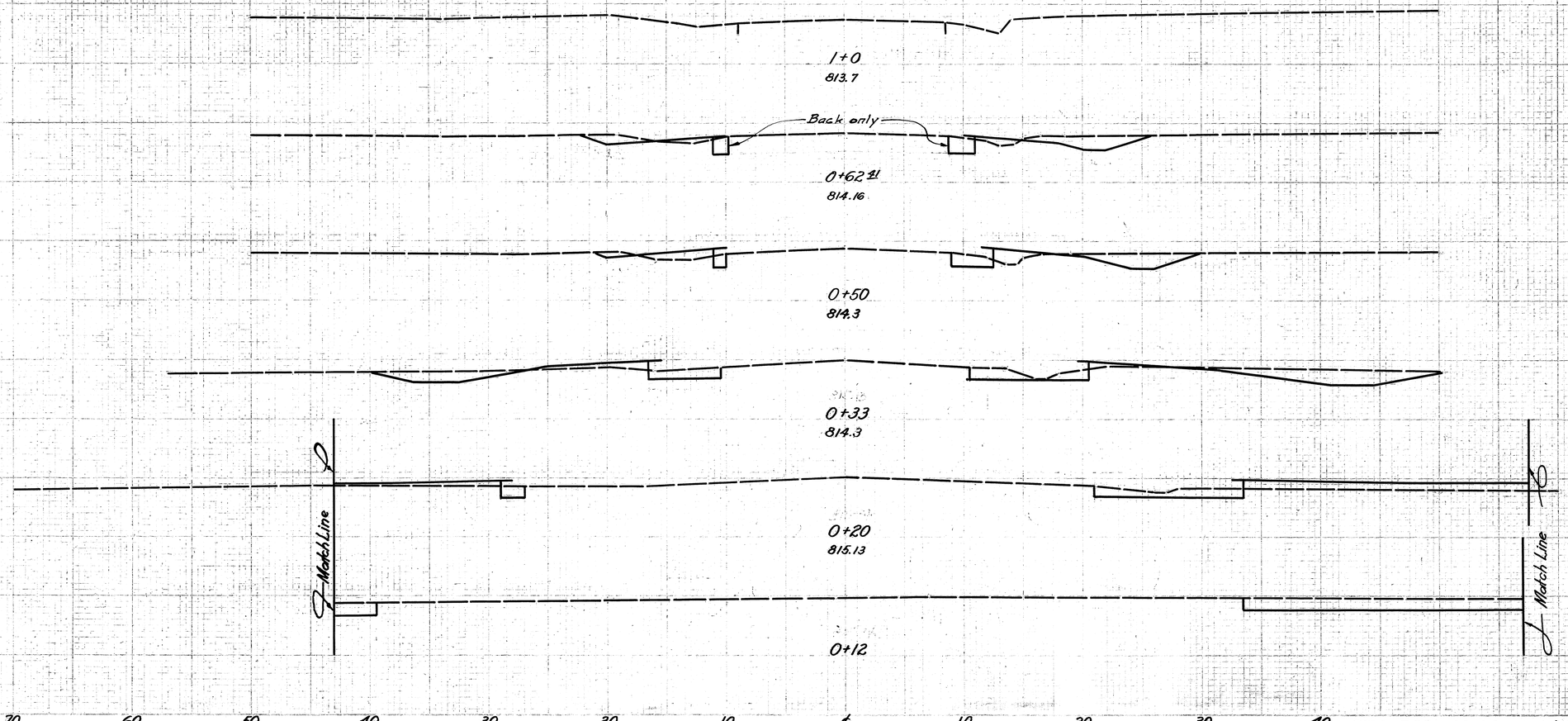
Carried to Sheet 79

STA. 495+56.14 INTERSECTION COWLEY RO

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

112
146

LOR-82-(4.79-12.47)



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	0	0		
			6	2
Ahead	9	2		
Back	12	2		
			5	2
	11	5		
			14	3
	32	3		
			10	4
	8	15		
			5	2
	28	0		

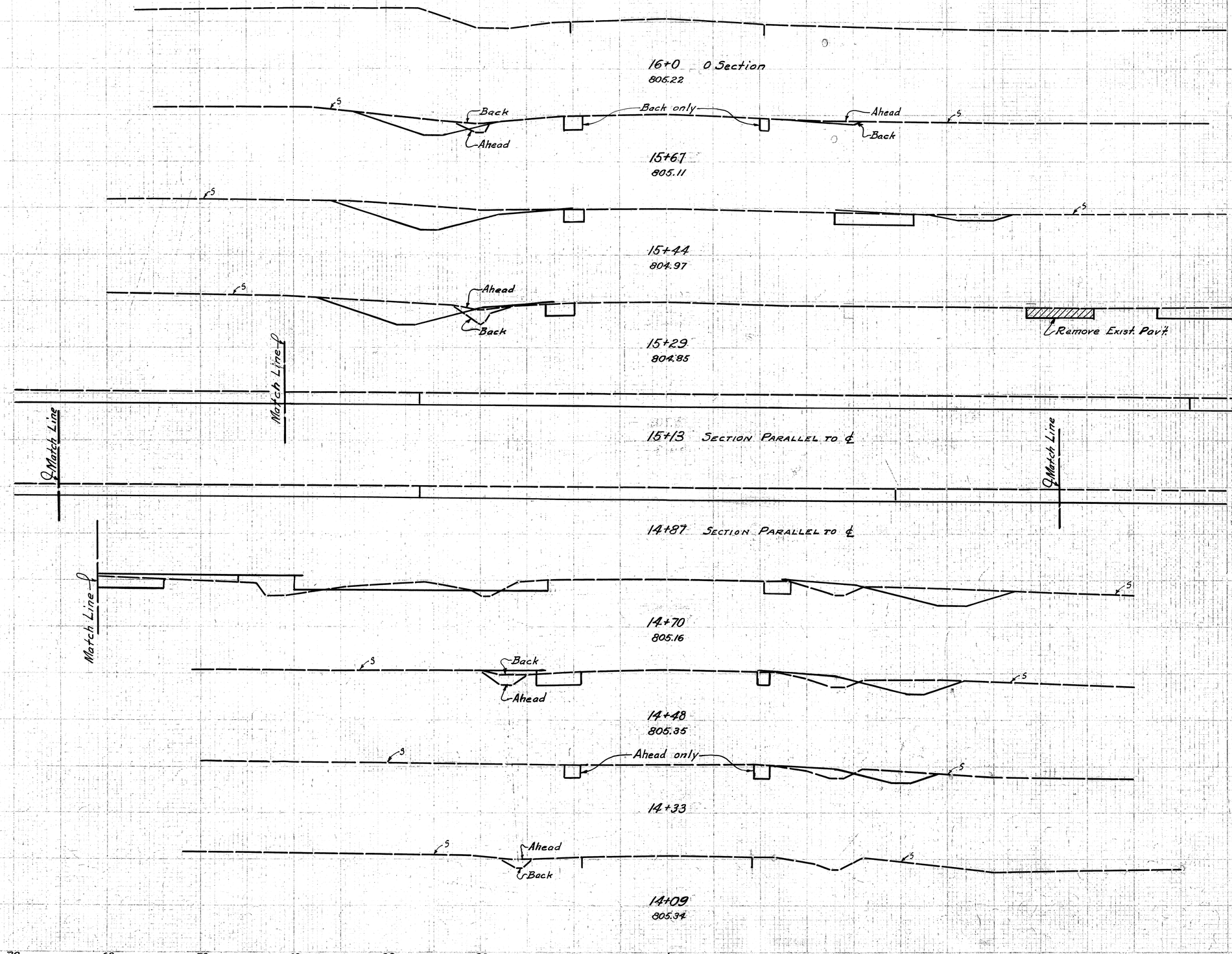
Carried to Sheet 82

STA. 522+43.03 INTERSECTION - HAWKE ROAD

FED. ED. DIVISION	STATE	PROJECT	
2	OHIO		

113
146

LOR-82-(4.79-12.47)



		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		0	0		
				8	1
Ahead	13	1			
Back	19	0			
				28	0
		47	0		
				26	1
Ahead	45	1			
Back	43	3			
				56	1
6.02" x .9657 = 5.81"	Ahead	145	0		
	Back	0	0		
	Ahead	0	0		
5.76" x .9657 = 5.56"	Back	139	0		
				57	6
		42	18		
				25	12
Ahead	19	12			
Back	19	8			
				9	4
Ahead	13	5			
Back	8	5			
				4	2
Ahead	0	0			
Back	0	0			
Sta. 14+00		0	0		
Carried to Sheet 90				213	27

70 60 50 40 30 20 10 ℄ 10 20 30 40

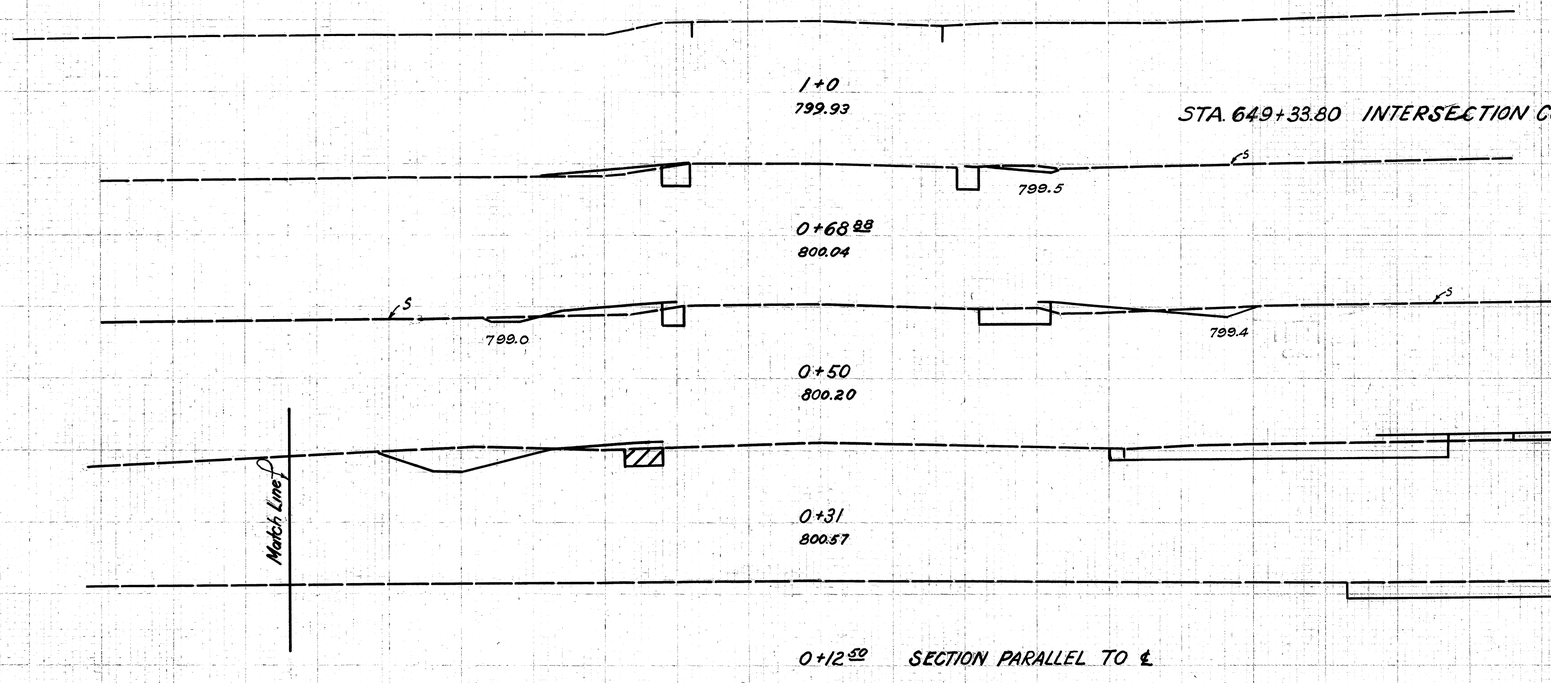
STA. 591+00.66 INTERSECTION - STATION ROAD

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

114
146

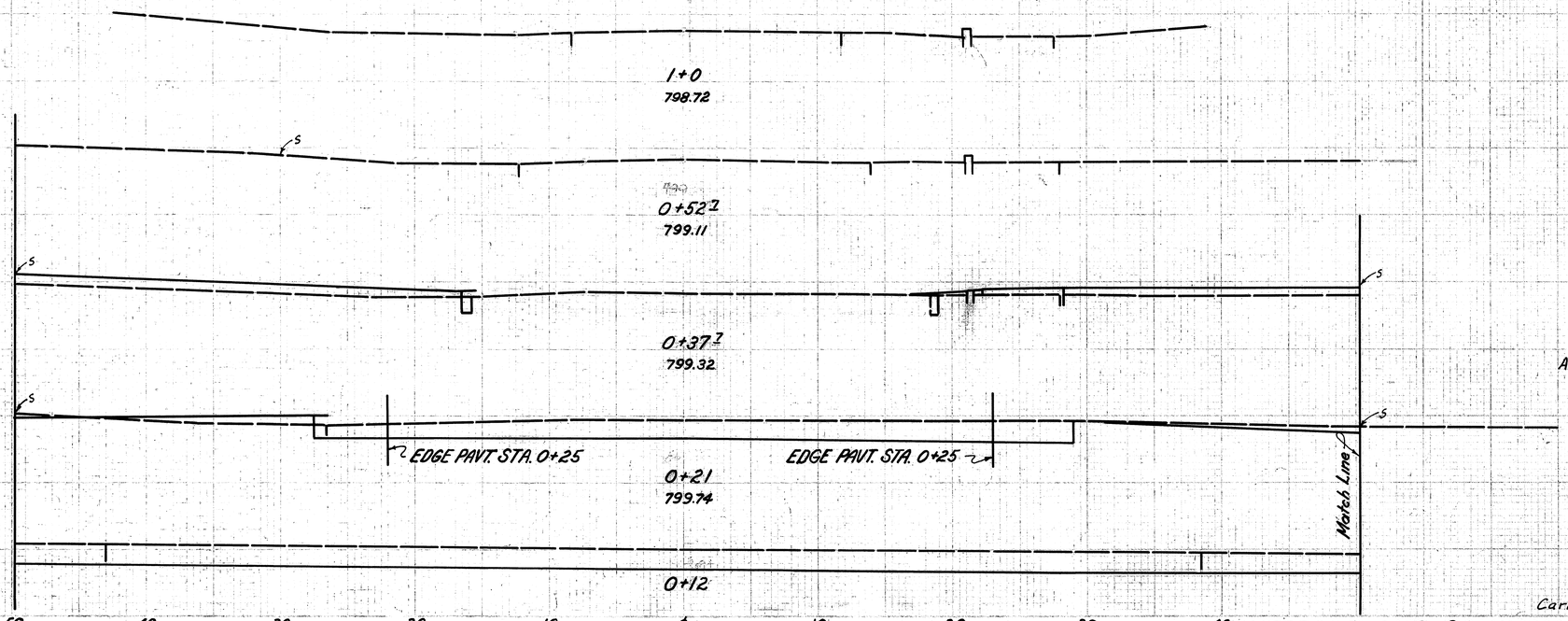
LOR-82-(4.79-12.47)

STA. 649+33.80 INTERSECTION COLUMBIA WEST RIVER ROAD - (RIGHT)



		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		0	0		
				1	1
Ahead		1	2		
Back		5	2		
				5	2
		9	5		
				16	4
		36	6		
				24	2
138° x .9595 = 132°		33	0		
Carried to Sheet 98				46	9

STA. 650+49.70 INTERSECTION COLUMBIA WEST RIVER ROAD - (LEFT)



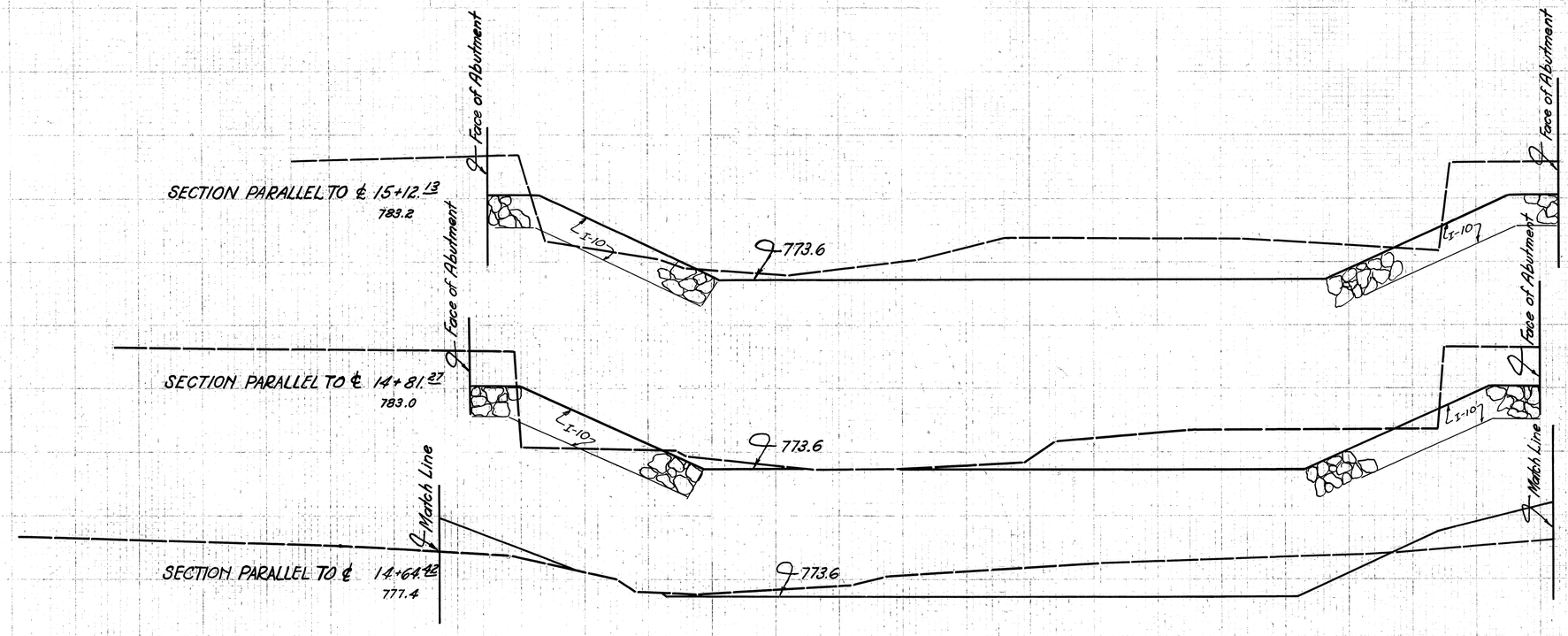
			END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
			0	0		
					1	11
						11
			2	39		
					1	11
At Sta. 0+25	Ahead		4	8		
	Back		67	8		
					11	1
			83	8		
					39	1
			150	0		
Carried to Sheet 98					52	24

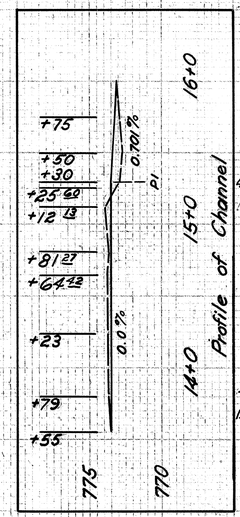
INTERSECTIONS COLUMBIA WEST RIVER ROADS

FED. HWY. DIVISION	STATE	PROJECT	
2	OHIO		

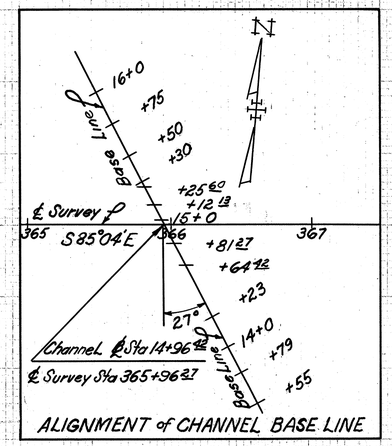
115
146

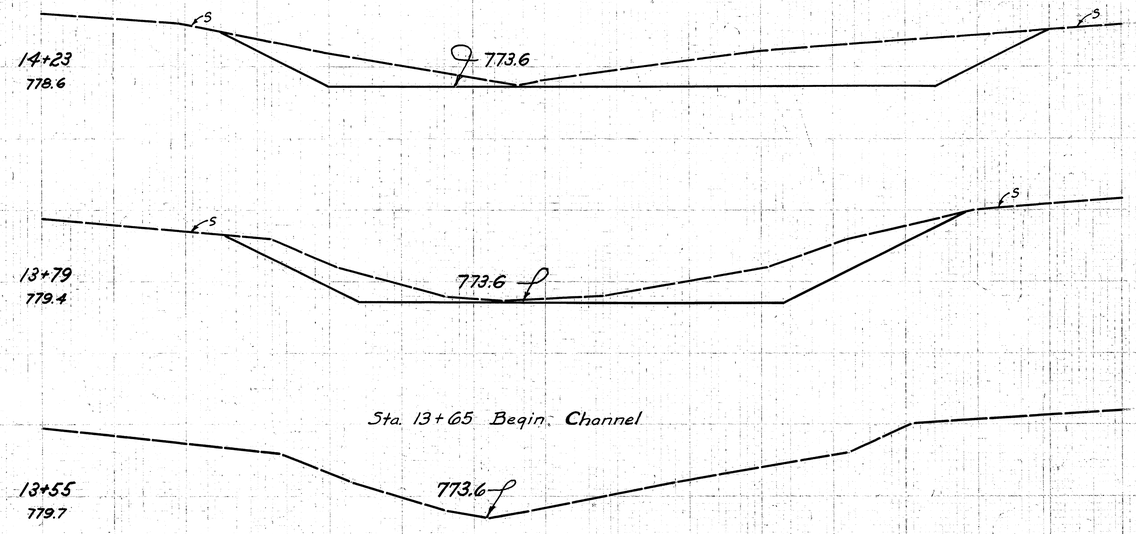
LOR-82-(4.79-12.47)





	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
6.59 x .8910 = 5.83 .08 x .8910 = .04	196	1		
			141	3
4.52 x .8910 = 4.03 .11 x .8910 = .15	101	4		
			61	11
4.26 x .8910 = 3.80 1.35 x .8910 = 1.20	95	30		
			196	23
	95	0		
			137	0
	68	0		
			30	0
	13+65	0	0	





Total Channel Excavation
Carried to Structure Summary Sheet #123 ——— 689

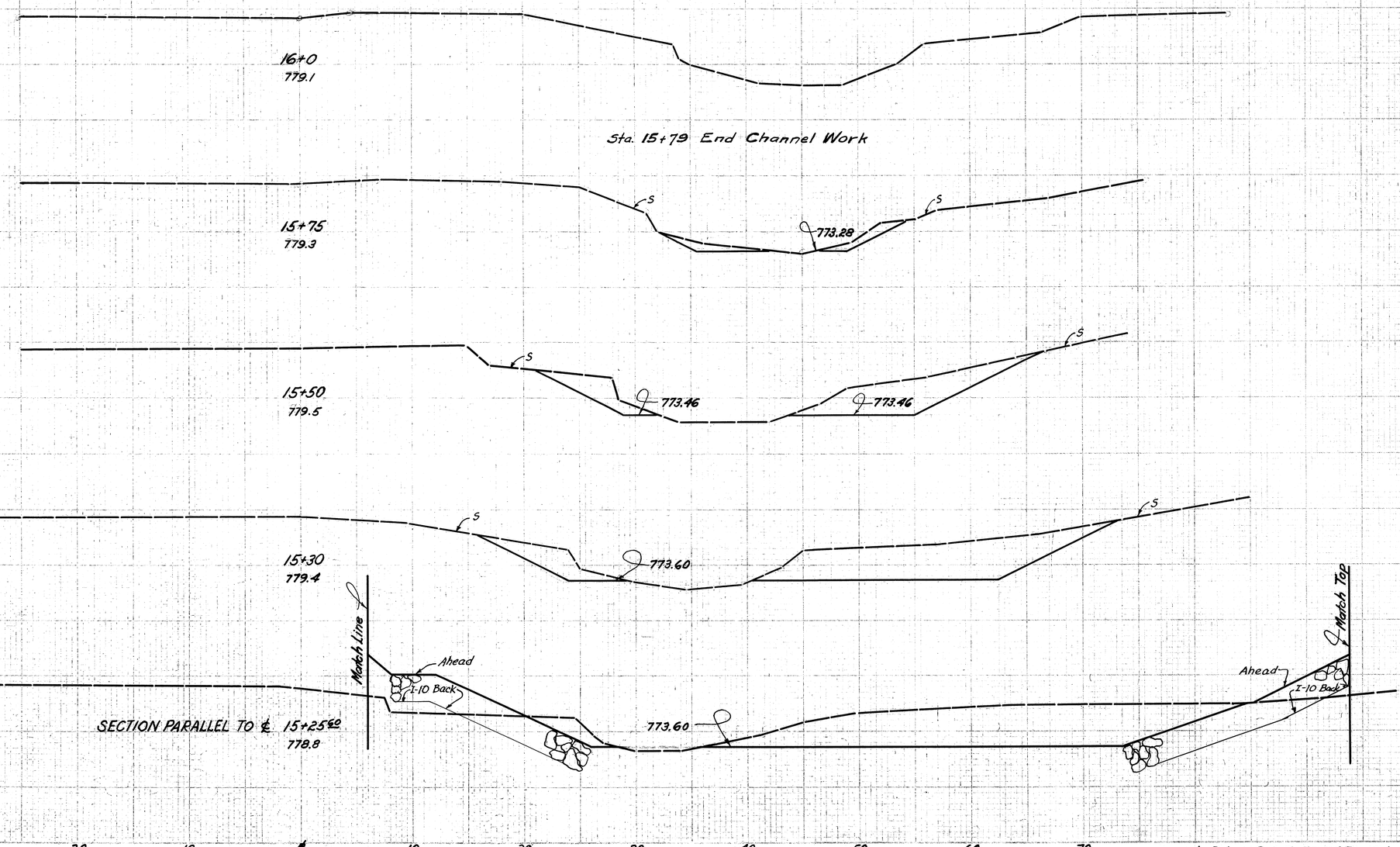
Total Embankment (benches)
Carried to sheet #60 ——— 44

℄ Sta. 365+96.27 Channel Sections 13+55 to 15+12.13

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

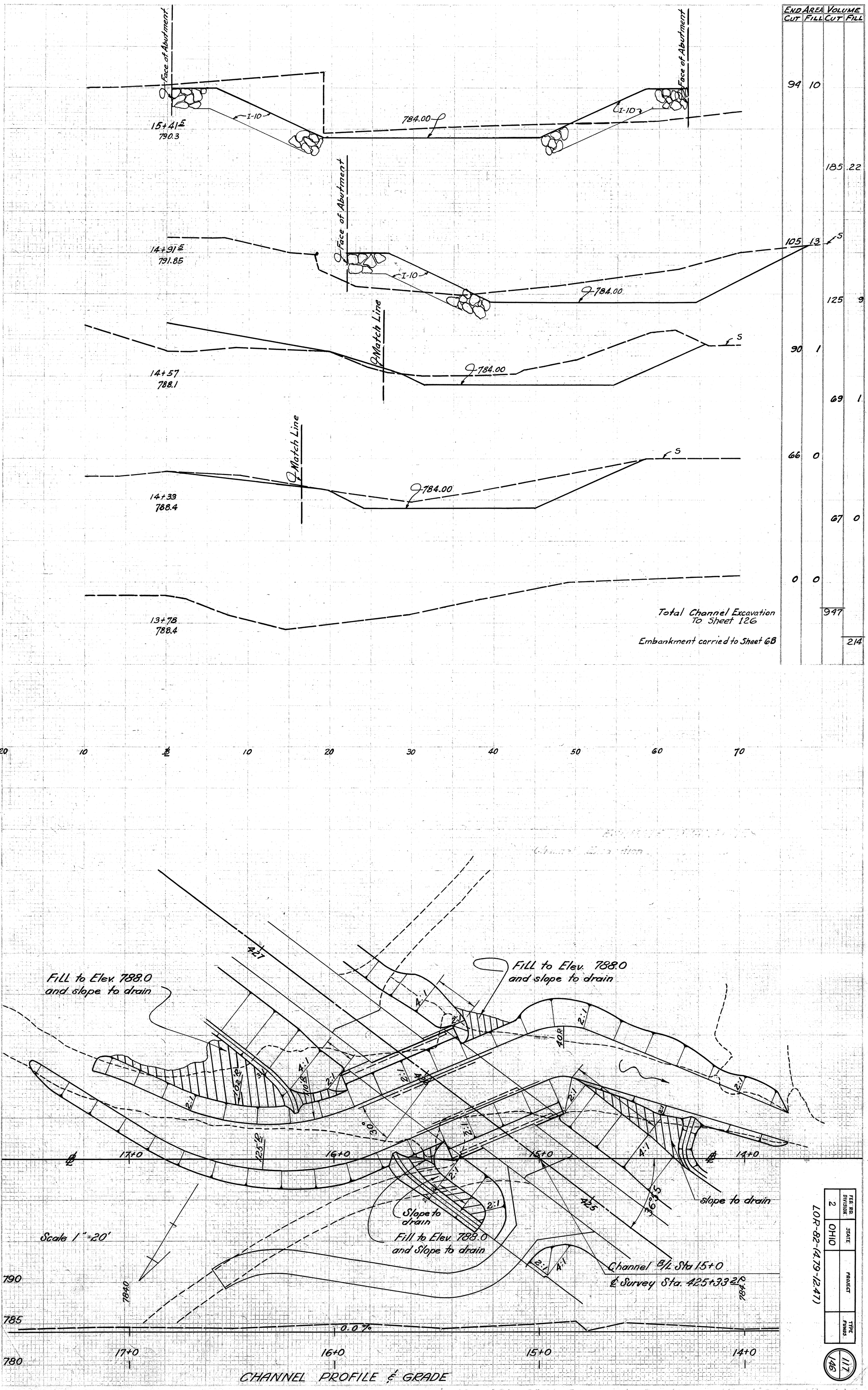
116
146

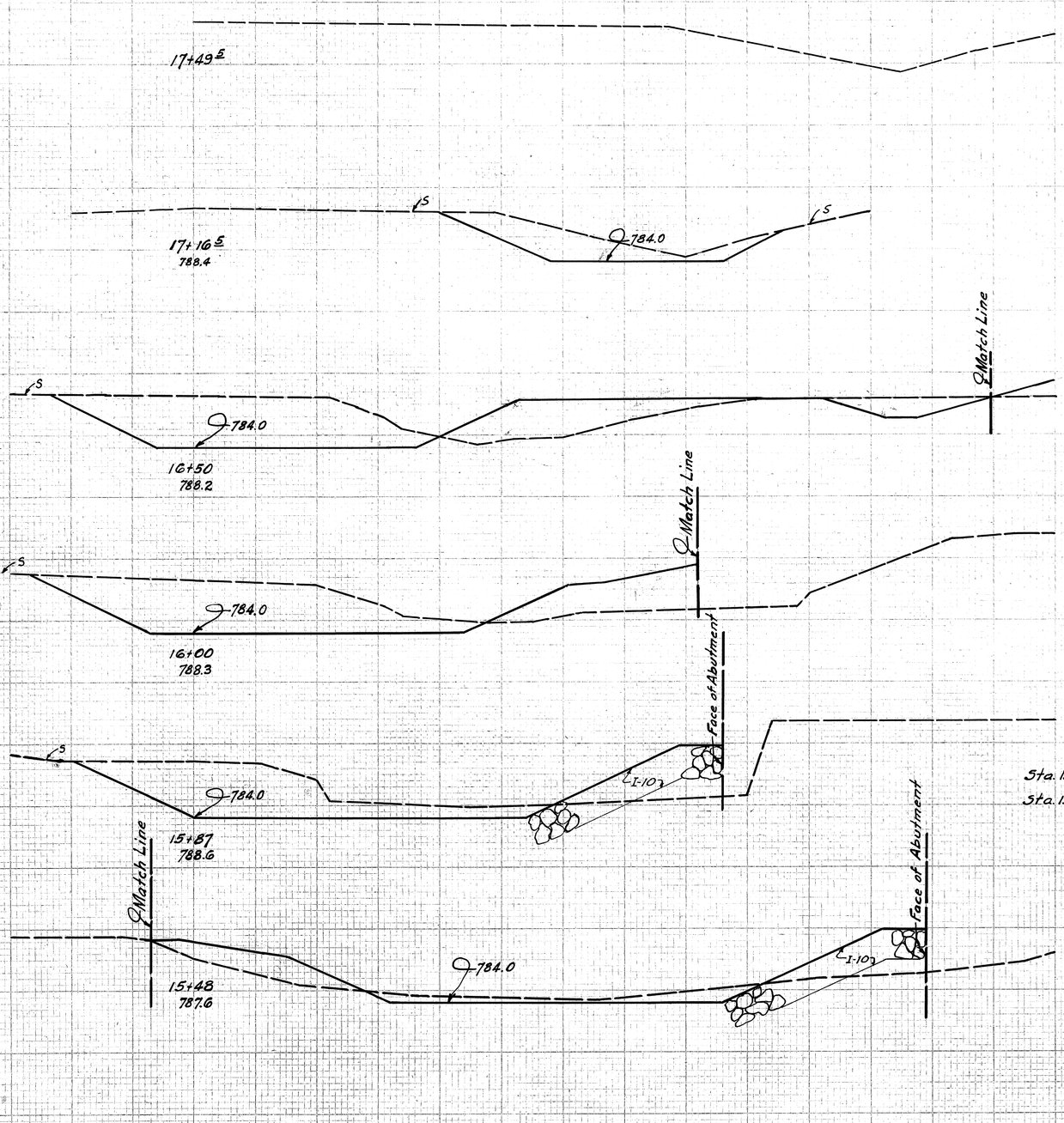
LOR-82-(4.79-12.47)



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta. 15+79	0	0		
			1	0
	12	0		
			31	0
	55	0		
			57	0
	98	0		
			18	4
		5.46"×8910=4.86'		
Ahead		2.00"×8910=1.78'	122	45
Back		.48"×8910=.43	122	11
			65	3
Sta. 15+12.13	196			

℄ Sta. 365+96.27 Channel Sections 15+25.60 to 16+0


Face of Abutment
15+41.5
790.3
I-10
784.00
Face of Abutment
I-10
Face of Abutment
14+91.5
791.85
I-10
784.00
Match Line
14+57
788.1
784.00
5
Match Line
14+33
788.4
784.00
5
13+78
788.4
END AREA VOLUME
CUT FILL CUT FILL
94 10
185 .22
105 13 5
125 9
90 1
69 1
66 0
67 0
0 0
Total Channel Excavation
To Sheet 126
947
Embankment carried to Sheet 68
214
20 10 0 10 20 30 40 50 60 70
427
Fill to Elev. 788.0
and slope to drain
Fill to Elev. 788.0
and slope to drain
4:1
2:1
40R
10:1
30°
12:1
425
36.65
Slope to drain
Slope to drain
Fill to Elev. 788.0
and Slope to drain
Channel B/L Sta 15+0
℄ Survey Sta. 425+33.21
784.0
Scale 1"=20'
790
785
780
0.0%
17+0
16+0
15+0
14+0
℄ Sta. 425+33.21 Channel Sections 13+78 to 15+41.5
CHANNEL PROFILE & GRADE
FED. RD. DIVISION 2
STATE OHIO
PROJECT
TYPE FUNDS
LOR-82-(4.79-12.47)
117
146



	End Area Cut	End Area Fill	Volume Cut	Volume Fill
	0	0		
			24	0
	40	0		
			188	57
	113	46		
			203	81
	109	41		
			47	12
	87	9		
			77	27
Sta. 15+48	20	29	19	5
Sta. 15+41.5	94	10		

℄ Sta. 425+33 21 Channel Sections 15+48 to 17+49 5

℄ Sta. 425+33 21 Channel Sections 15+48 to 17+49 5

LOR-82-(479-12.47)

DESIGN REVISION	2
STATE	OHIO
PROJECT	

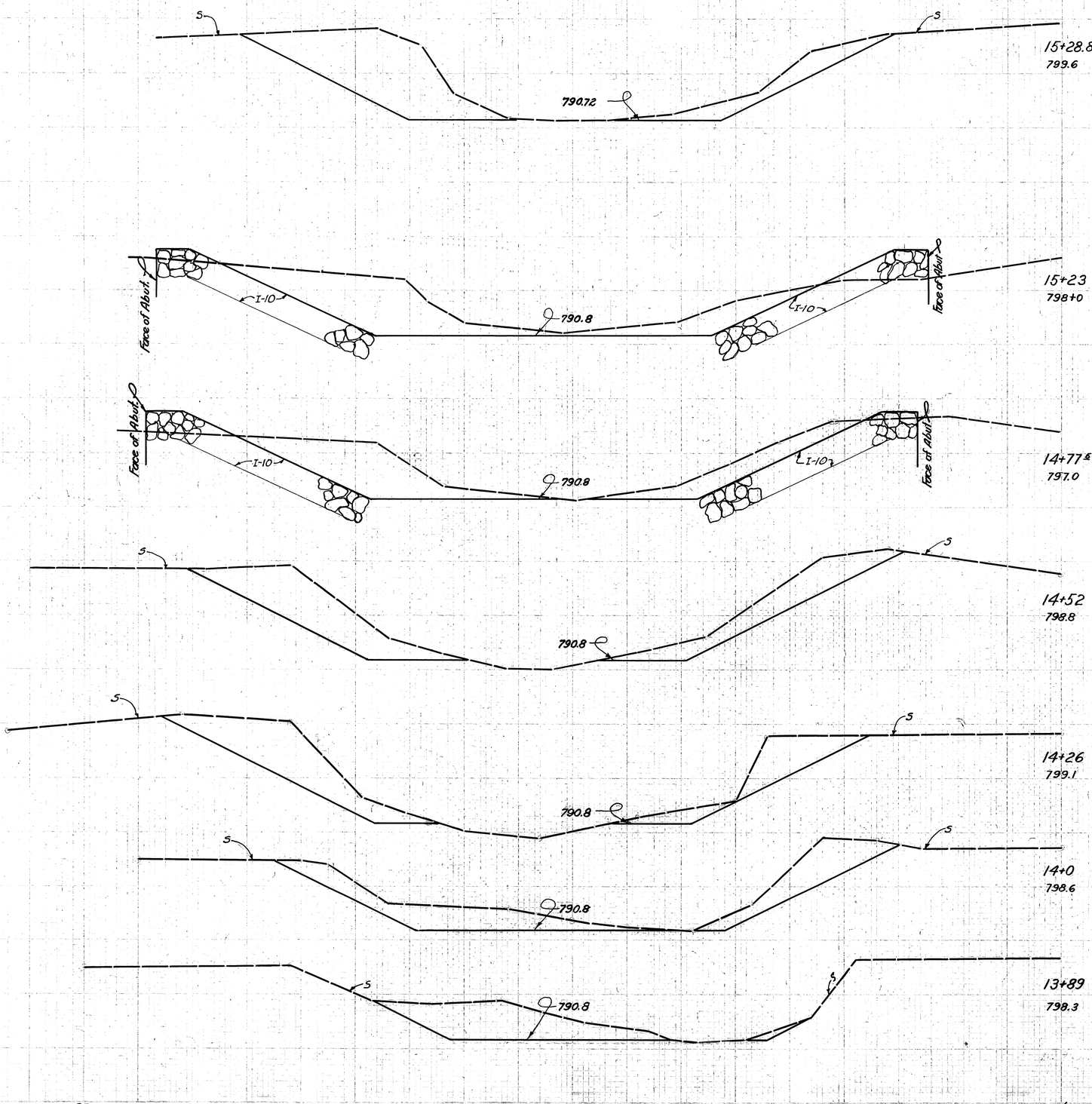
118

146

FED. ROAD DIV. NO.	STATE	PROJECT	TYPE WORK
2	OHIO		

119
146

LOR-82-(4.79-12.47)



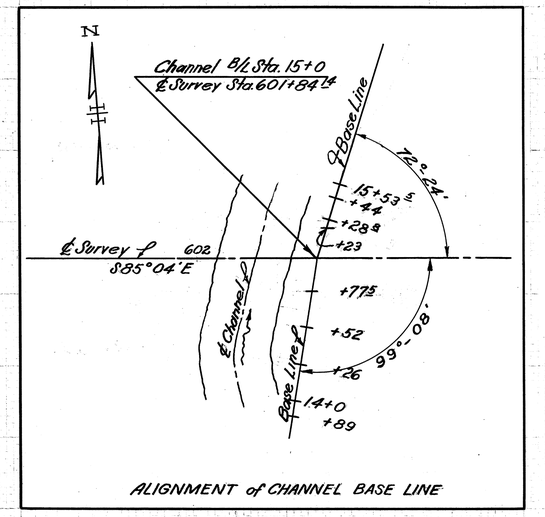
	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	123	0		
			24	0
	102	0		
			164	0
	93	0		
			92	0
	101	0		
			97	0
	101	0		
			89	0
	83	0		
			28	0
	55	0		
			3	0
Sta. 13+86	0	0		

℄ ℄ Sta 601+84.14 Channel Sections 13+89 to 15+28.8

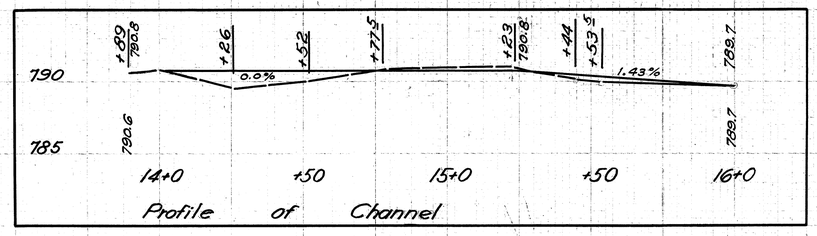
FED. ROAD DIST.	STATE	PROJECT	TYPE FUNDS
2	OHIO		

120
146

LOR-82-(4.79-12.47)



ALIGNMENT of CHANNEL BASE LINE



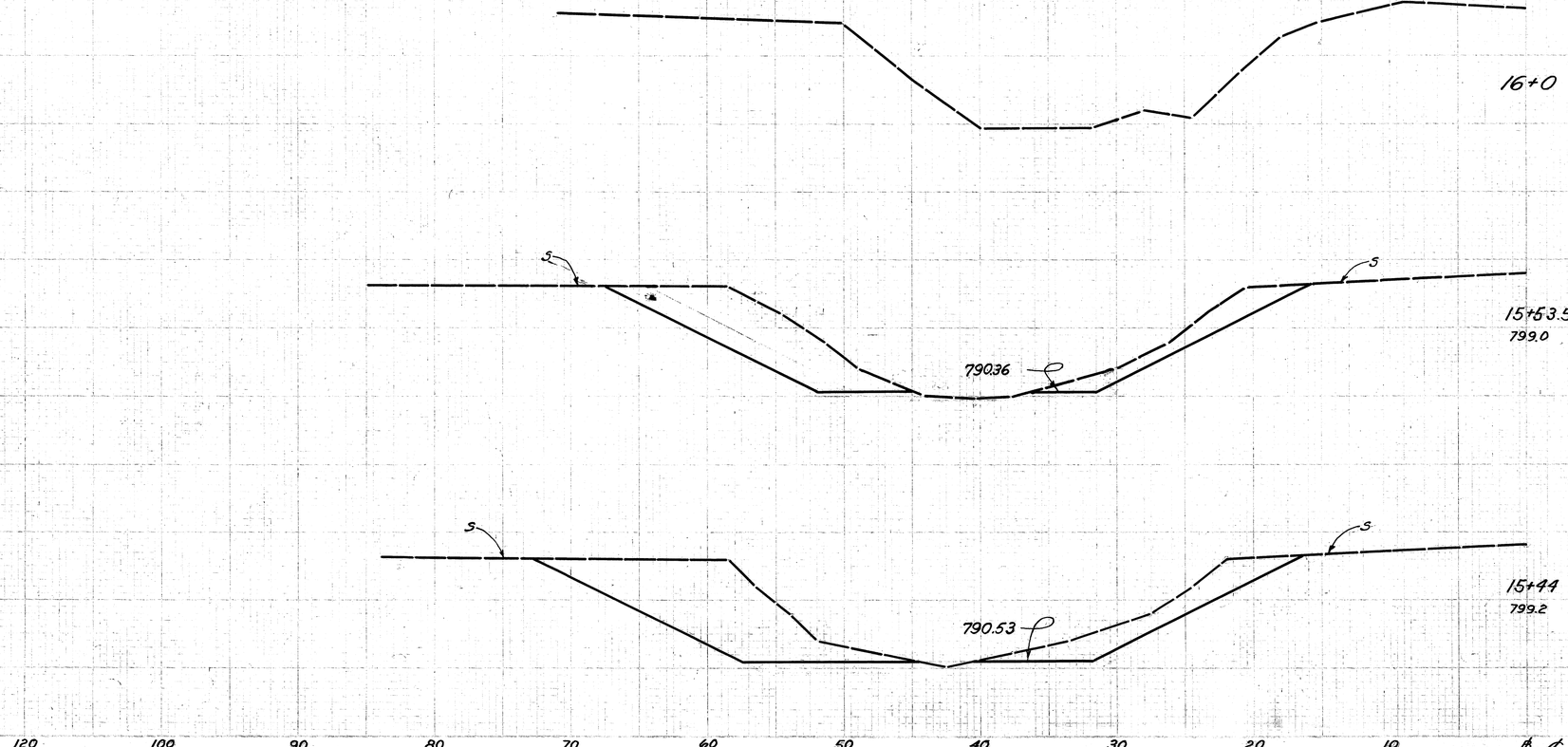
Profile of Channel

ESTIMATED QUANTITIES

CHANNEL EXCAVATION (To sheet 129)	Cu. Yds.	619
*CHANNEL EMBANKMENT	Cu. Yds.	0

* Carried to Sheet No. 92

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta. 15+65	0	0		
				18
	83	0		
				36
	119	0		
				68
Sta. 15+28.8	123	0		



℄ ℄ Sta 601+84.1 Channel Sections 15+44 to 15+63.5

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

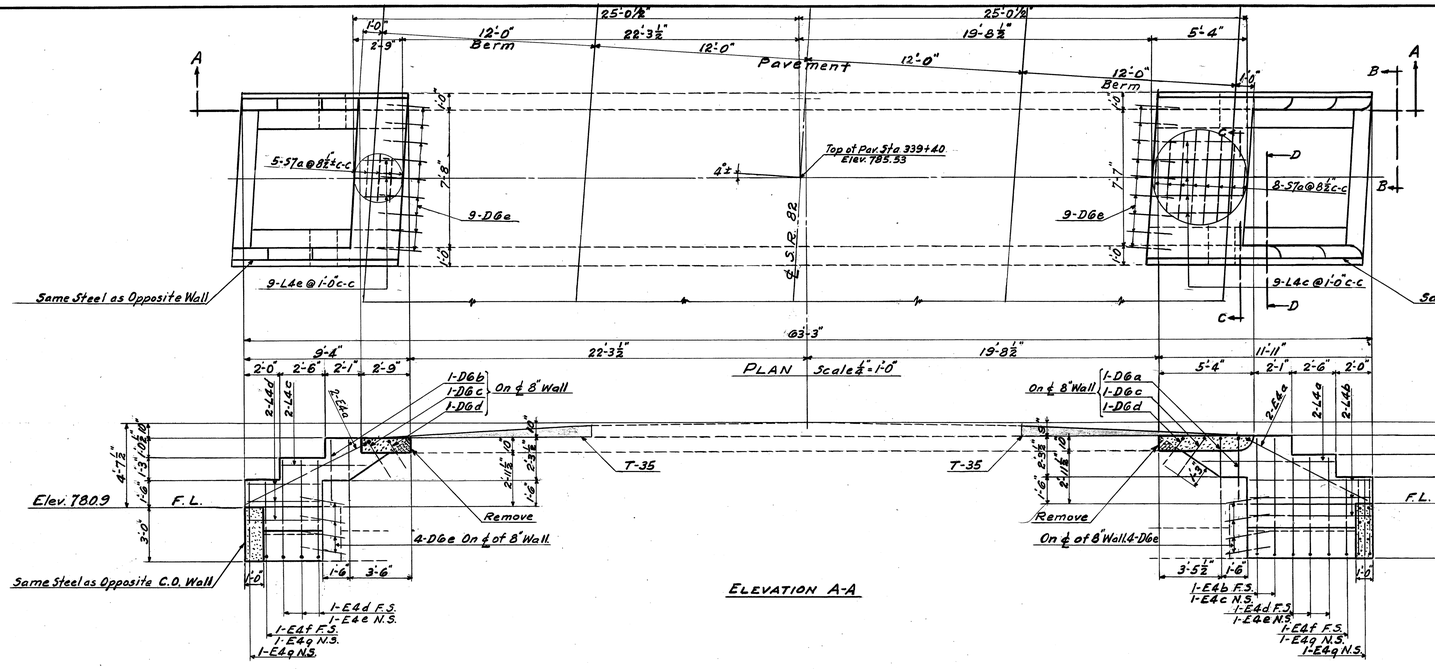
121
146

LOR-82-(4.79-12.47)

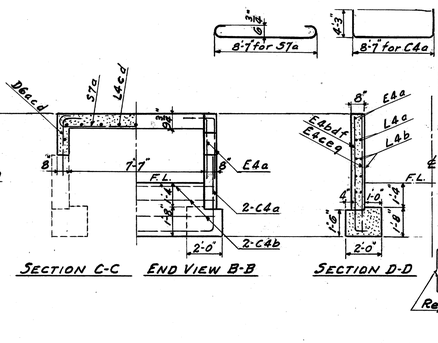
ESTIMATED QUANTITIES

E-2	Excavation for Structure.	17	Cu.Yds.
E-3	Channel Excavation.	36	Cu.Yds.
S-1	Concrete for Structure. Class E	10.4	Cu.Yds.
S-4	Reinforcing Steel.	977	Lbs.
S-22	Removal of Portions of Exist. Struct.	0.2	Cu.Yds.
S-23	Dowel Holes.	63	Lin.Ft.
T-35	Asphaltic Concrete Surface Course.	2.5	Cu.Yds.

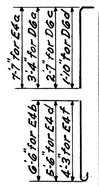
NOTE: Refer to Std. Dr. STC-47



ELEVATION A-A



SECTION C-C END VIEW B-B SECTION D-D



REINFORCING STEEL

No.	Mark	Size	Shape	Length	Weight
13	S7a	⅞ ℄	Bent	10'-3"	272
4	D6a	¾ ℄	Bent	4'-0"	24
4	D6b	¾ ℄	St.	3'-3"	20
4	D6c	¾ ℄	Bent	3'-3"	20
4	D6d	¾ ℄	Bent	2'-6"	15
34	D6e	¾ ℄	St.	2'-6"	128
8	E4a	½ ℄	Bent	8'-0"	43
4	E4b	½ ℄	Bent	7'-0"	19
4	E4c	½ ℄	St.	6'-6"	17
12	E4d	½ ℄	Bent	6'-0"	48
12	E4e	½ ℄	St.	5'-6"	44
4	E4f	½ ℄	Bent	4'-9"	13
8	E4g	½ ℄	St.	4'-3"	23
4	L4a	½ ℄	St.	7'-6"	20
12	L4b	½ ℄	St.	6'-6"	52
13	L4c	½ ℄	St	5'-0"	43
12	L4d	½ ℄	St.	4'-0"	32
9	L4e	½ ℄	St.	2'-6"	15
4	C4a	½ ℄	Bent	16'-9"	45
12	C4b	½ ℄	St.	8'-6"	48
2	R7a	⅞ ℄	St.	6'-6"	27
1	R6a	¾ ℄	St.	4'-0"	6
1	R4a	½ ℄	St.	4'-0"	3

Replacements for Test Samples

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

122
146

LOR-82-(4.79-12.47)
2.5± Miles West of North Eaton

NOTE: ℄ Survey is marked by spike at Sta. 366+00 and Sta. 367+00

EXISTING BRIDGE DATA

Type: Steel Beam
Clear Span: 2@32'-0"
Width (Clear): 24'-0"
Skew: 25° R.F.
Loading: H-15
Condition: Fair

Willow Creek
+773.0
El. 773.3±
+778.4
+784.8
Transition 4:1 to 2:1 slope
+772.7
℄ Temporary Run-around (Grade same as existing pavement)
Transition 2:1 to 4:1 slope
150' R.
150' R.
+772.8
+773.2
55'±
+80.02
+80.77
6.25
Dumped rock channel protection (Salvage allowable)
364
S 84°-40'E
365
366
367
368
369
End Appr. Slab Sta. 366+00.92
783.5
Begin Appr. Slab Sta. 366+87.08
Dumped rock channel protection (salvage allowable)
6.25
+07.23
+00.98
El. 773.6±
+773.7
Transition 2:1 to 4:1 slope.
Transition 4:1 to 2:1 slope
Remove brush
Remove drift
+782.4
+775.7
El. 773.6±
+773.4
Bridge Limits
Sta. 366+87.08
Sta. 366+00.92
Clears 5 to 10 Yr. H.W. 1.5'±
Sta. 365+00 = S.L.M. 6.91

FOUNDATION SOUNDINGS: Foundation design and foundation quantities are based on a study of rod soundings and soil-sampling soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in the Division office, but the State assumes no responsibility for the accuracy thereof. +780.9

BENCH MARK
B.M. SPIKE IN S.W. END WOODEN WHEEL RAIL 12.5' RT. STA. 366+14
ELEV. 784.25

	783.94	783.84	783.84	783.84	783.84	783.84	783.84	783.84	783.84	783.86	784.06	784.46	784.99
790													
780													
770													
760													
750													
740													
	78350	78352	78351	78350	78351	78347	78343	78333	78349	78363	78382	78423	78472
	+50	364	+50	365	+50	366	+50	367	+50	+75	368	+25	+50

0.0%
Highest Known High Water Elev. 781.0 (Assumed 5 to 10 yr. Freq. = 1933 - 780.6)
Bench El. 780.2
Bench El. 780.2
All piles 14" cast-in-place reinforced concrete
Flow line El. 773.6
Excavate Channel thru Structure to El. 773.6±
Est. avg. pay length of piles { both obuts. = 26' / both piers = 36' }
+08.7
+79

DRAINAGE AREA: 11.5 Sq. Mi.

PROPOSED STRUCTURE

Type: Continuous Reinforced Concrete Slab With Capped Pile Substructure
Spans: 26-32.5-26 c/c Brgs.
Roadway: 44' c/c Guardrails
Load Frequency: CF-2000(51)
Skew: 25° R.F.
Wearing Surface: 1" Monolithic Concrete
Approach Slabs: AS-1-54 (25' Long)
Alignment: Tangent

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. LOR-82-0693
OVER WILLOW CREEK
LORAIN CO. S.R. 82
STA. 366+00.92
366+87.08
SCALE 1" = 20'

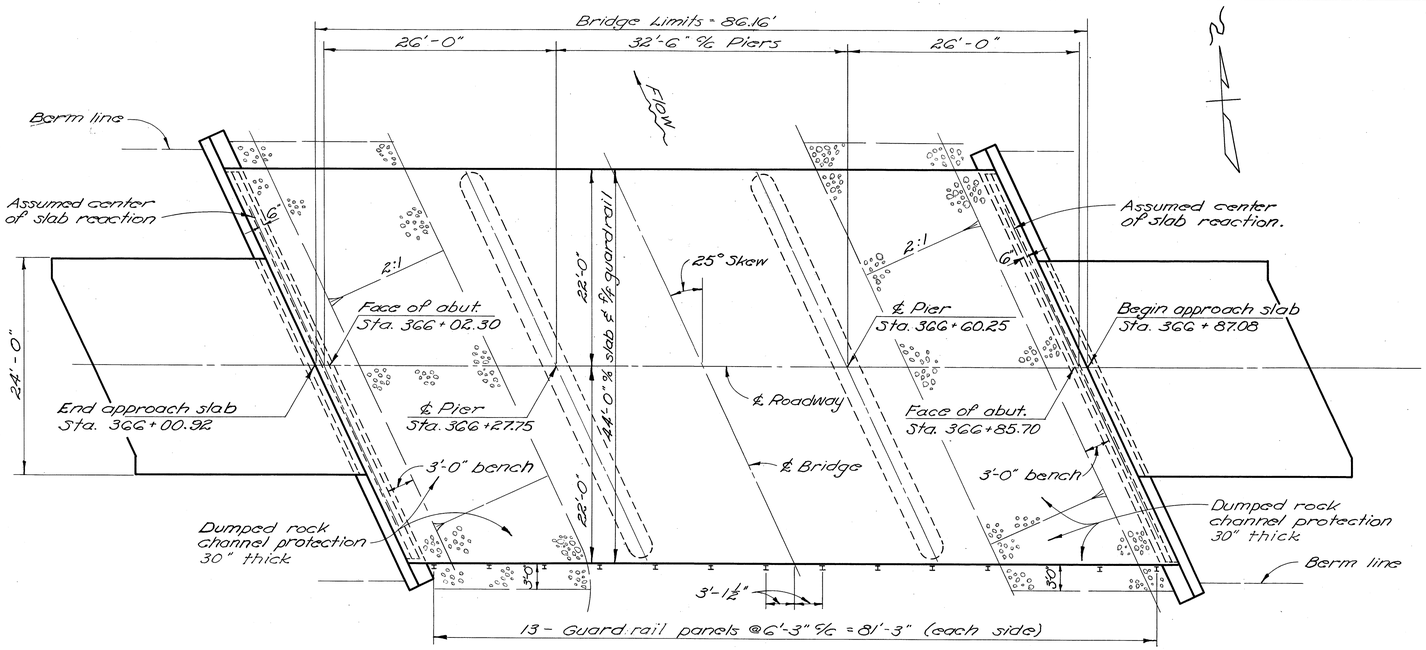
PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
		L.J.E.	L.J.E.	D.H.S.	C.E.

BFG 9-9-57

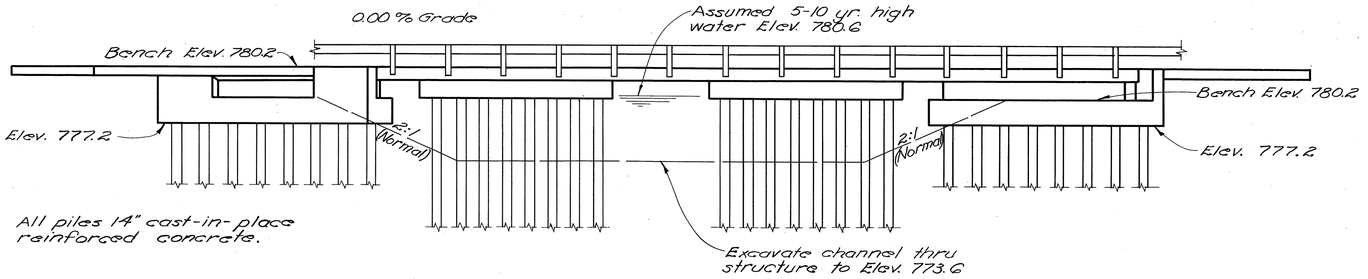
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

123
146

LOR - 82 - (4.79 - 12.47)



GENERAL PLAN



ELEVATION

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Super.	Abuts.	Piers	Gen.		
E-2	110	cu.yd.	Unclassified excavation		110				
E-3	689	cu.yd.	Channel excavation				689		
S-1	204	cu.yd.	Class "C" concrete, superstructure & pier caps	187		17			
S-1	56	cu.yd.	Class "E" concrete, abutments		56				
S-4	57455	lb.	Reinforcing steel	46419	6082	4954			
S-14	172.32	lin.ft.	Railing (Type I-15.13 with galvanized steel						
			posts and bolts.)	172.32					
S-15	lump	sum	Temporary run-around bridge & approaches				lump		
S-16	lump	sum	First test pile				lump		
S-18	1000	lin.ft.	14" cast-in-place reinforced concrete piles		420	580			
S-24	lump	sum	Removal of existing structure				lump		
S-29	18	cu.yd.	Porous backfill		18				
I-10	200	cu.yd.	Dumped rock channel protection				200		

GENERAL NOTES

REFERENCE shall be made to Standard Drawings CS-1-54 revised 7-16-56, A-1-54 revised 12-1-54 and P-1-54 revised 12-1-54.

TEMPORARY RUN-AROUND BRIDGE AND APPROACHES: Load frequency for bridge, CF = 130, with unit stresses increased 25% as per Sec. 82 of the Design Specifications for Highway Structures. Bridge width 24'. Approach width, out-to-out of shoulders, 30'. Approach pavement shall be Class "A", 24' wide. Existing superstructure may be moved and used for temporary run-around bridge without strengthening.

REMOVAL OF EXISTING STRUCTURE: When no longer needed to maintain traffic the existing structure shall be removed. Structural steel shall be carefully dismantled and piled along the right-of-way for disposal by the State's forces. Suitable waste masonry may be used as dumped rock channel protection.

PILES shall be driven to a minimum bearing capacity of 25 tons for the abutments and 35 tons for the piers.

PIER PILE ENCASEMENT as shown on Std. Dwg. No. P-1-54 may be omitted provided that the tapered portion, if any, of all pier piles does not extend above the stream bed or the proposed surface of the ground. If the tapered portion of any pile extends above these limitations, the encasement will be required for all the pier piles. If the encasement is omitted the pile casings shall have a thickness of metal not less than No. 7 gauge, and the painting of the piles shall extend to low water elevation or, if the proposed surface of the ground is above low water, the painting shall extend to at least one foot below the proposed surface of the ground.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

GENERAL PLAN & ELEVATION, NOTES and ESTIMATED QUANTITIES

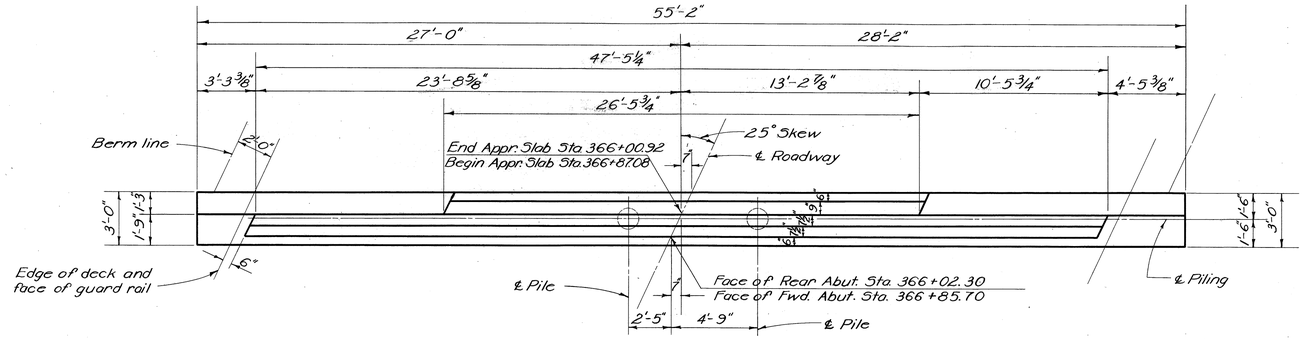
Bridge No. LOR-82-0693
over Willow Creek
Lorain County Sta. 366+00.92
366+87.08

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
prose	prose	RSM	NEY	BFG	4-9-57	

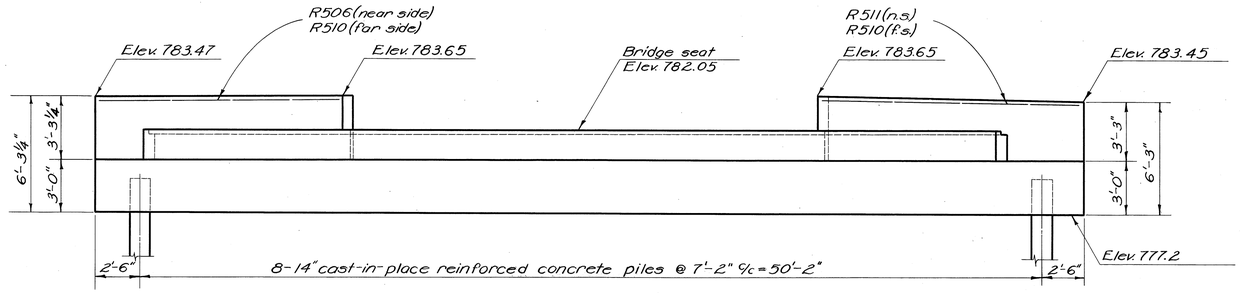
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

124
146

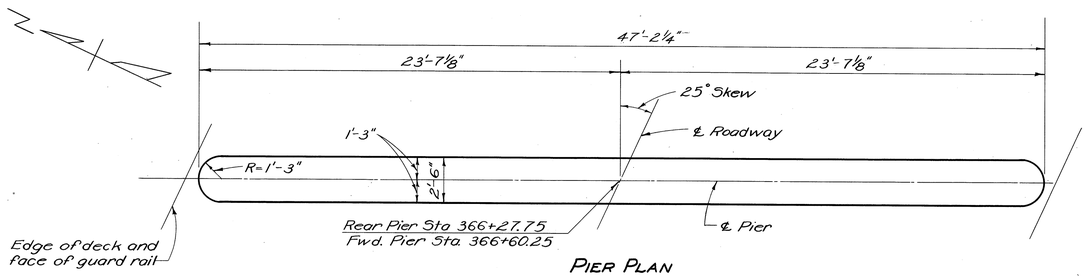
LOR - 82 - (4.79 - 12.47)



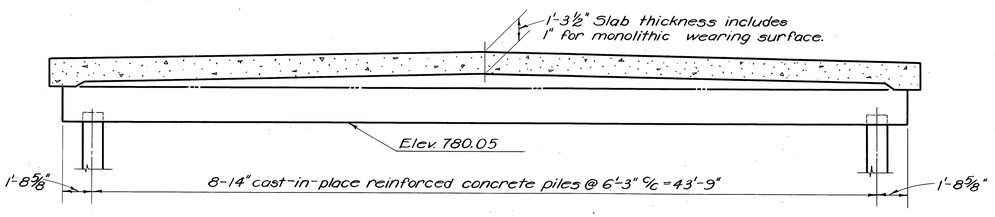
ABUTMENT PLAN



ABUTMENT ELEVATION



PIER PLAN

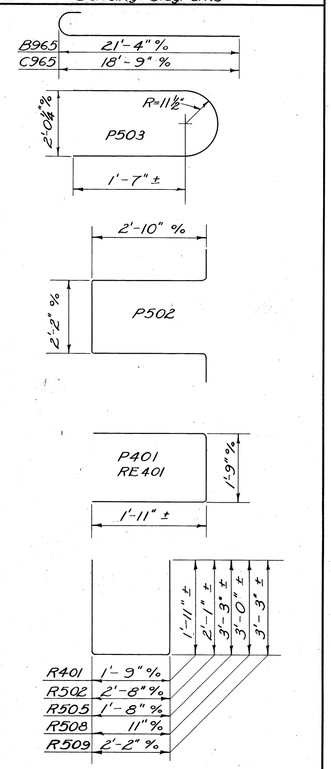


PIER ELEVATION

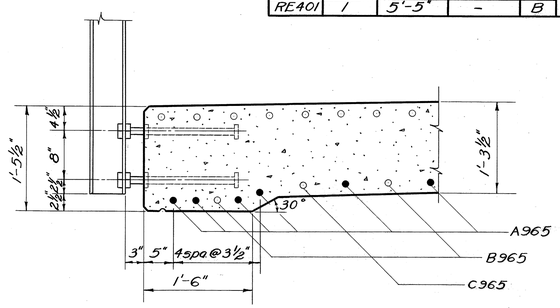
REINFORCING STEEL LIST

Mark	No.	Length	Weight	Shp.
Superstructure				
A965	126	30'-6"	13,066	5
B965	36	22'-5"	2,744	B
C965	38	19'-10"	2,562	B
D965	18	21'-4"	1,306	5
E965	19	16'-10"	1,087	5
F965	88	29'-1"	8,702	5
G965	42	15'-5"	2,201	5
H965	44	12'-7"	1,882	5
M701	142	25'-1"	7,280	5
J601	44	15'-6"	1,024	5
K601	22	8'-7"	284	5
N601	114	25'-0"	4,281	5
Piers				
P1001	16	25'-7"	1,761	5
P901	16	23'-9"	1,292	5
P701	96	4'-0"	785	5
P501	8	23'-2"	193	5
P502	68	9'-0"	638	B
P503	8	6'-4"	53	B
P401	64	5'-5"	232	B
Abutments				
R1001	16	25'-3"	1,738	5
R801	16	28'-9"	1,228	5
R501	16	28'-3"	471	5
R502	156	6'-7"	1,071	B
R503	8	24'-4"	203	5
R504	24	5'-4"	133	5
R505	36	7'-11"	297	B
R506	2	13'-6"	28	5
R507	16	5'-5"	90	5
R508	32	6'-8"	222	B
R509	32	8'-5"	281	B
R510	4	14'-0"	58	5
R511	2	14'-6"	30	5
R401	64	5'-5"	232	B
Replacement Bars				
RE1001	1	7'-2"	–	5
RE901	2	6'-10"	–	5
RE801	1	6'-6"	–	5
RE701	1	6'-2"	–	5
RE601	1	5'-11"	–	5
RE501	1	5'-7"	–	5
RE401	1	5'-5"	–	B

Bending Diagrams



REPLACEMENT BARS: If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing Laboratory, test samples as provided in Sec. 3-4.02 need not be furnished and replacement bars will not be required.



EDGE BEAM DETAIL
(For details not shown see Std. Dwg. CS-1-54)

For additional abutment and pier details see Std. Dwgs. A-1-54 and P-1-54, respectively.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

ABUTMENT AND PIER DETAILS AND REINFORCING STEEL LIST
Bridge No. LOR-82-0693 over Willow Creek

Sta. 366+00.92
366+87.08
Lorain County

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
prosc	prosc	L.D.C.	NEY.	BFG 9-9-57		

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

125
146

LOR-82-(4.79-12.47)

0.74 Miles East of North Eaton

NOTE: ℄ Survey is marked by spike at Sta. 425+00 and Sta. 427+00

Fill to Elev. 788.0± and slope to drain

Transition 4:1 to 2:1 slope at all four corners of bridge

℄ Temporary run-around (Grade same as existing pavement)

Sta. 428+00 25' L.T.

150' R

Dumped rock channel protection

End Appr. Slab Sta. 425+50.63

Begin Appr. Slab Sta. 426+17.37

S 84°-44'-30" E

Buried Telephone Cable

Buried Gas Line

Note: Steel H-piling in existing abutment is 15± long.

Elev. 784.0±

Sta. 424+00 = S.L.M. 8.03

FOUNDATION SOUNDINGS: Foundation design and foundation quantities are based on a study of rod soundings and soil-sampling soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in the Division office, but the State assumes no responsibility for the accuracy thereof.

BENCH MARK
B.M. CHISELED + N.W. WINGWALL TOP OF METAL PILING
LT. END OF WOODEN PLANK WALL
ELEV. 791.53

BRIDGE LIMITS Sta. 425+50.63 to Sta. 426+17.37 = 793.60

(1925-42 High Water El. 790.3) (5-10 yr. Freq. H.W. 780.3 Apr. 1957) Clears 5'-10 Y.R. H.W. 2.6'

0.0% -0.28%

Bench El. 790.0± Bench El. 789.9±

400' V.C. 400' V.C.

Flow line El. 784.0

Est. Average Pay length { Both abuts. - 20' / Both piers - 26' }

All piling 14" Cast-in-place reinforced concrete

Excavate channel thru structure to Elev. 784.0±.

Drainage Area : 3.7 Sq. Mi.

EXISTING BRIDGE DATA

Type : Steel Beam
Clear Span : 2@ 21'
Width (Clear) : 24'-0"
Skew : 45° L.F.
Loading : H-15
Condition : Fair

PROPOSED STRUCTURE

TYPE: Continuous Reinforced Conc. Slab with Capped Pile Substructure
SPANS: 20'-25'-20' c to c brgs.
ROADWAY: 44'-0" b/ Guardrails
LOAD FREQUENCY: DF = 2000 (51)
SKEW: 30° L.F.
WEARING SURFACE: 1" Monolithic Conc.
APPROACH SLABS: AS-1-54 (25' Long)
ALIGNMENT: Tangent

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. LOR-82-0806
over Willow Creek
LORAIN CO. S.R. 82
STA. 425+50.63
426+17.37

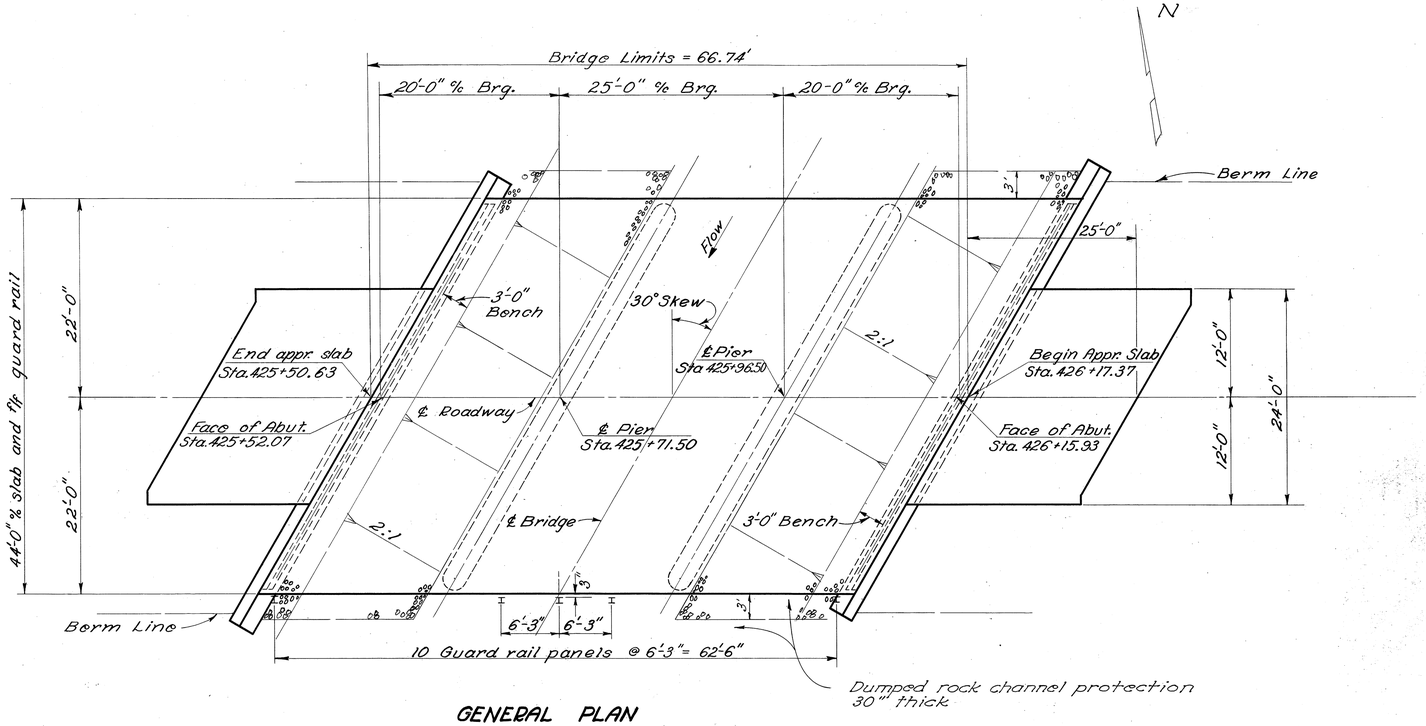
SCALE 1" = 20'

PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
Aerial Survey	Aerial Survey	LJE	LJE	H.B.	P.E.L.

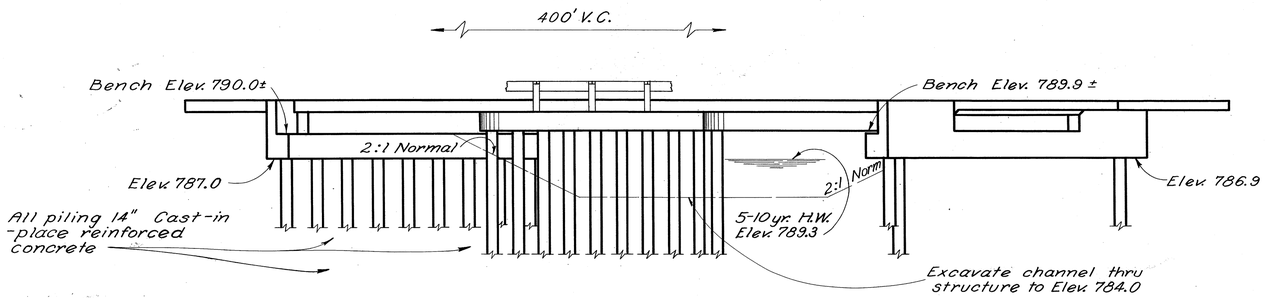
BFG 9-9-57

FED. RD. DIVISION	STATE	PROJECT		126 / 146
2	OHIO			

LOR - 82 - (4.79 - 12.47)



GENERAL PLAN



ELEVATION

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT		Superstr.	Abuts.	Piers	Gen.		
E-2	136	Cu. Yd.	Unclassified excavation		136				
E-3	947	Cu. Yd.	Channel excavation				947		
S-1	144	Cu. Yd.	Class "C" concrete, superstructure & pier caps	126		18			
S-1	57	Cu. Yd.	Class "E" concrete, abutments		57				
S-4	46,292	lb.	Reinforcing steel	34,080	7,117	5,095			
S-14	133.48	lin. ft.	Railing (Type I-15.13 with galvanized steel posts						
			and bolts)	133.48					
S-15	Lump	Sum	Temporary run-around bridge and approaches				Lump		
S-16	Lump	Sum	First test pile				Lump		
S-18	740	lin. ft.	14" Cast-in-place reinforced concrete piles		320	420			
S-24	Lump	Sum	Removal of existing structure				Lump		
S-29	20	Cu. Yd.	Porous backfill		20				
I-10	185	Cu. Yd.	Dumped rock channel protection				185		

GENERAL NOTES

REFERENCE shall be made to Standard Drawings CS-1-54, revised 7-16-56, and P-1-54 and A-1-54 both revised 12-1-54.

TEMPORARY RUN-AROUND BRIDGE AND APPROACHES: Load frequency for bridge, CF-130, with unit stresses increased 25 % as per Sec. 82 of the Design Specifications for Highway Structures. Bridge width 24'. Approach width, out-to-out of shoulders, 30'. Approach pavement shall be Class "A", 24' wide. Existing bridge may be moved and used for the run-around bridge without strengthening.

REMOVAL OF EXISTING STRUCTURE: When no longer needed to maintain traffic the existing structure shall be removed. All structural steel and steel H-piling shall be placed along the right-of-way for disposal by the State's forces. Suitable waste masonry may be used for dumped rock channel protection at the direction of the Engineer. Other waste masonry may be disposed of in fill under the proposed structure.

PILES shall be driven to a minimum bearing capacity of 22 tons for the abutments and 27 tons for the piers.

PIER PILE ENCASEMENT as shown on Std. Dwg. No. P-1-54 may be omitted provided that the tapered portion, if any, of all pier piles does not extend above the stream bed or the proposed surface of the ground. If the tapered portion of any pile extends above these limitations, the encasement will be required for all the pier piles. If the encasement is omitted the pile casings shall have a thickness of metal not less than No. 7 guage, and the painting of the piles shall extend to low water elevation or, if the proposed surface of the ground is above low water, the painting shall extend to at least one foot below the proposed surface of the ground.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

GENERAL PLAN & ELEVATION NOTES & ESTIMATED QUANTITIES BRIDGE No. LOR-82-0806

OVER WILLOW CREEK

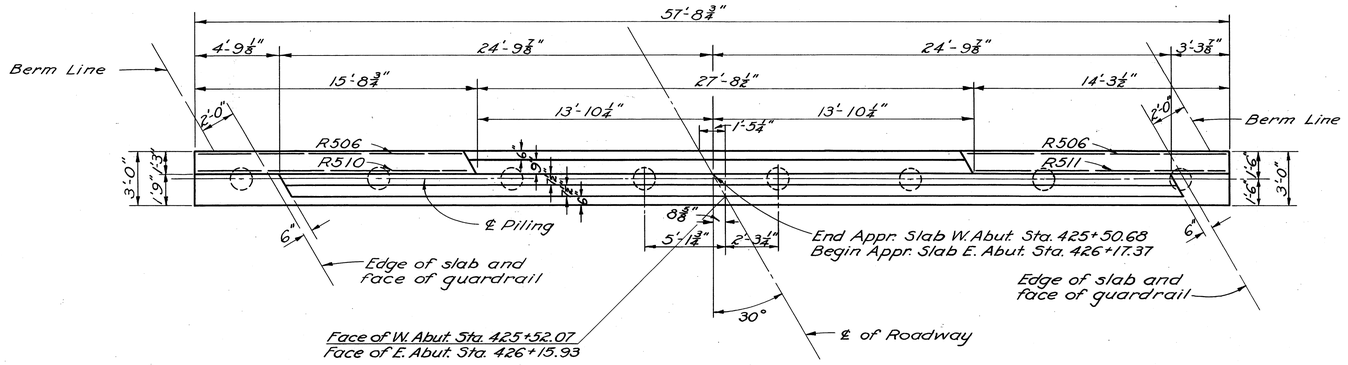
LORAIN COUNTY STA. 425+50.63 STA. 426+17.37

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RHD	RHD	P.T.M.	O.P.M.	BFG	9-9-57	

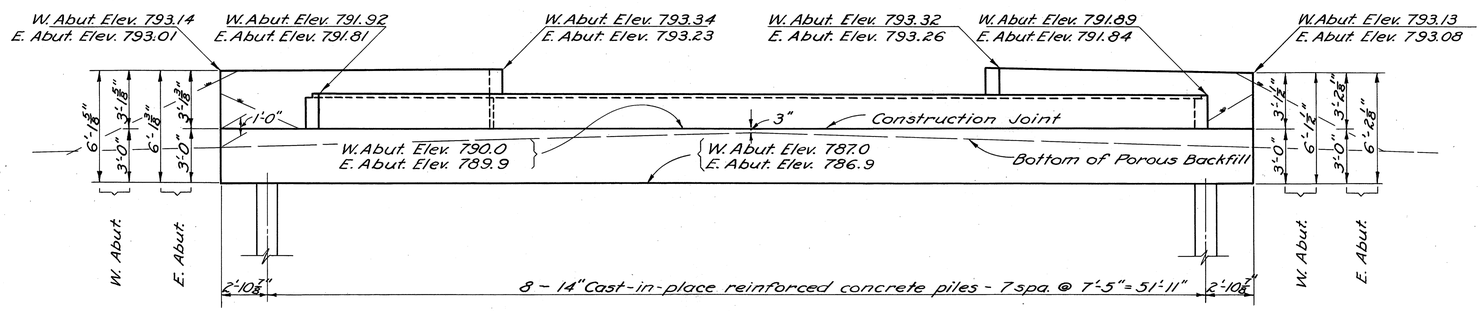
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

127
146

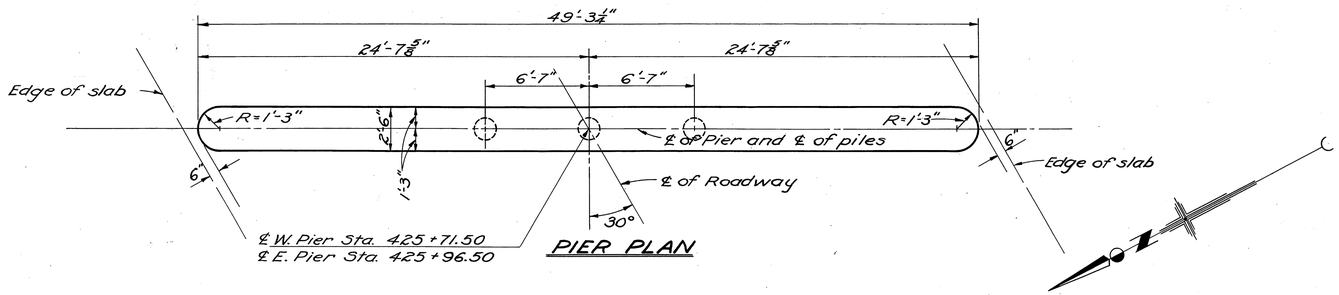
LOR - 82 - (4.79 - 12.47)



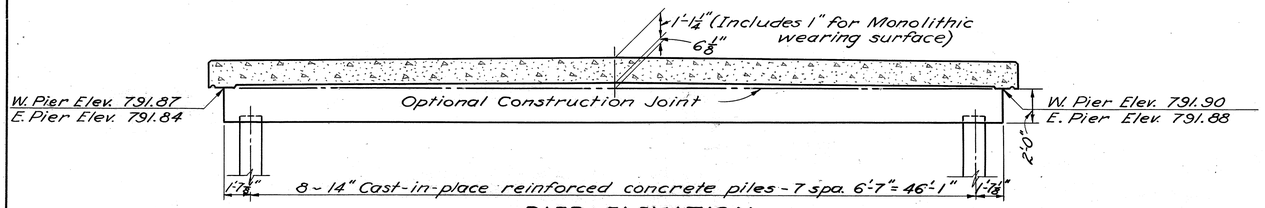
ABUTMENT PLAN



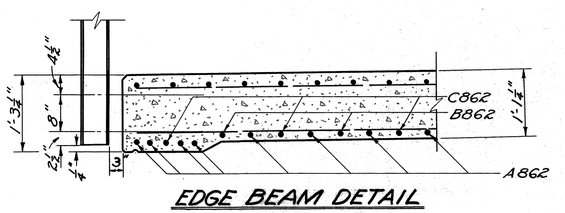
ABUTMENT ELEVATION



PIER PLAN



PIER ELEVATION

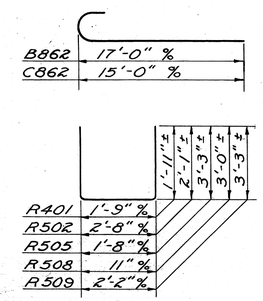


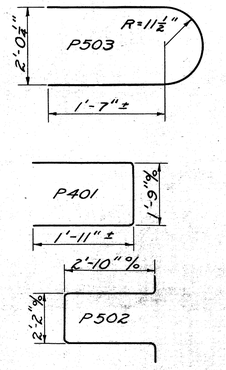
EDGE BEAM DETAIL

REINFORCING STEEL LIST

MARK	NO.	LENGTH	WEIGHT	SHP.
SUPERSTRUCTURE				
A862	135	23'-9"	8561	S
B862	40	18'-1"	1931	B
C862	40	16'-1"	1718	B
D862	20	17'-4"	926	S
E862	20	13'-10"	739	S
F962	76	24'-7"	6352	S
G962	36	13'-4"	1632	S
H962	38	12'-5"	1604	S
J601	38	11'-7"	661	S
K601	19	5'-9"	164	S
M701	114	26'-2"	6098	S
N601	94	26'-2"	3694	S
ABUTMENTS				
R1001	16	26'-5"	1819	S
R801	16	30'-1"	1285	S
R501	16	29'-6"	492	S
R502	156	6'-7"	1071	B
R503	8	25'-6"	213	S
R504	24	5'-4"	134	B
R505	38	7'-11"	314	B
R506	4	14'-6"	60	S
R507	16	5'-8"	946	S
R508	32	6'-8"	209	B
R509	32	8'-5"	281	B
R510	2	15'-3"	32	S
R511	2	14'-1"	29	S
R401	64	5'-5"	232	B
PIERS				
P1001	16	26'-8"	1836	S
P901	16	24'-9"	1346	S
P701	96	4'-0"	785	S
P501	8	24'-9"	206	S
P502	68	9'-0"	637	B
P503	8	6'-4"	53	B
P401	64	5'-5"	232	B
REPLACEMENT BARS				
RE1000	1	7'-2"	–	S
RE900	1	6'-10"	–	S
RE800	1	6'-6"	–	S
RE700	1	6'-2"	–	S
RE600	1	5'-11"	–	S
RE500	1	5'-7"	–	S
RE401	1	5'-5"	–	B

BENDING DIAGRAMS





REPLACEMENT BARS: If reinforcing bars are fabricated from stock which has been previously tested and approved by the Ohio Highway Testing Laboratory, test samples as provided in Sec. 5-4.02 need not be furnished and replacement bars will not be required.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

ABUTMENT & PIER DETAILS & REINFORCING STEEL LIST
BRIDGE No. LOR-82-0806 OVER WILLOW CREEK
LORAIN COUNTY STA. 425+50.63 STA. 426+17.37

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RHD	RHD	J.GW.	O.P.M.	DFG	9-9-57	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	[illegible]	

128/146

LOR-82-(4.79-12.47)

1.4 ± Miles West of Columbia Hills Corners

Note: ℄ Survey is marked by spike at Sta. 601+00 & Sta. 602+00

Sta. 601+00

Sta. 602+00

℄ Elev. 790.5±

℄ Temporary Run-around (Grade same as existing pavement.)

Transition 2:1 to 4:1 Slope

Transition 2:1 to 4:1 Slope

Transition 2:1 to 4:1 Slope

Transition 2:1 to 4:1 Slope

Sta. 599+75, 28.1' Lt.

150'R.

S 85°-04' E

150'R.

Sta. 600+00 = S.L.M. 11.36

End Appro. Slab Sta. 601+01.47

Begin Appro. Slab Sta. 601+74.53

Dumped rock channel protection

Dumped rock channel protection

Elev. 792.0±

Bridge Limits

Sta. 601+01.47

Pt. Sta. 601+50 El. = 802.88

Sta. 601+74.53

Clears 5-10 Yr. H.W. 2.6 ±

+.44% -.4% H.W. Elev = 798.8 (5-10 YR FREQ-1933-1982)

Bench Elev. 798.8±

Bench Elev. 798.8±

Excavate Channel thru Structure to Elev. 790.8 ±

All piles 14" cast-in-place reinforced concrete.

Est. avg. pay length of piles { Abuts. = 32' / Piers = 37'

400'-0" C.C.

599 600 601 602 603

BENCH MARK
CENTER OF PAINTED CROSS AT STA. 602+00
ELEV. 802.70

FOUNDATION SOUNDINGS: Foundation design and foundation quantities are based on a study of rod soundings and soil-sampling soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in the Division office, but the State assumes no responsibility for the accuracy thereof.

EXISTING BRIDGE DATA

Type: Conc. Beam
Clear Span: 34'-0"
Width (Clear): 19'-11"
Skew: 0°
Loading: H-15
Condition: Good

DRAINAGE AREA: 12.0 Sq. Mi.

PROPOSED STRUCTURE

Type: Continuous Reinforced Concrete Slab With Capped Pile Substructure
Spans: 22-27.5-22' c/c brgs.
Roadway: 44'-0" c/c guardrails
Load Frequency: CF = 2000(51)
Skew: 15° 0 L.F.
Wearing Surface: 1" Monolithic
Approach Slabs: AS-1-54(25' long)
Alignment: Tangent

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. LOR-82-1138
OVER PLUM CREEK
LORAIN CO. S.R. 82

STA. 601+01.47
601+74.53

SCALE 1" = 20'

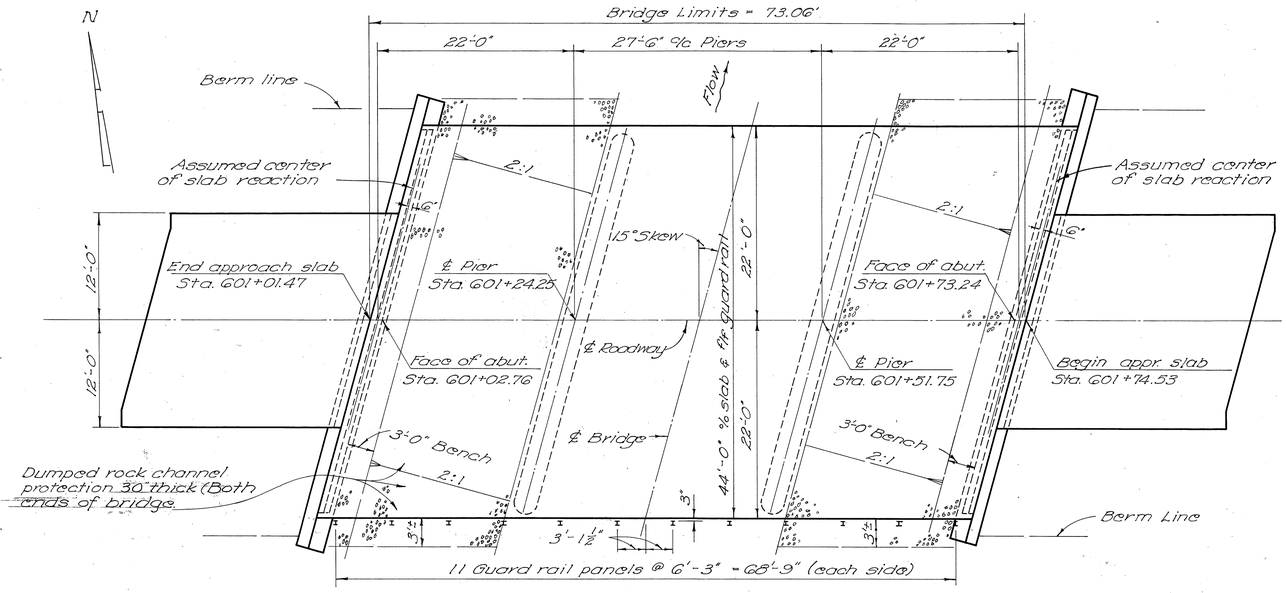
PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
Aerial Survey	Aerial Survey	LJE	LJE	J.N.B.	G.E.S.

BFG G.J.S. 9-9-57

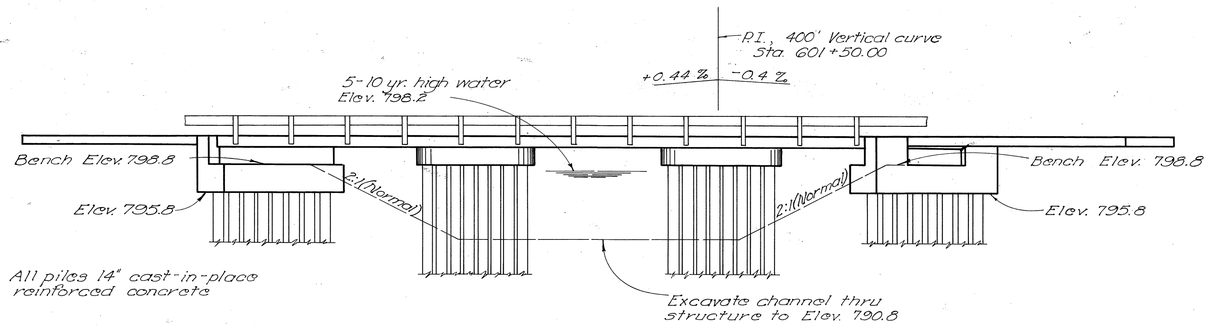
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

129
146

LOR-82-(479-12.47)



GENERAL PLAN



ELEVATION

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Superstr.	Piers	Abuts.	Gen.		
E-2	114	Cu.Yd.	Unclassified excavation			114			
E-3	619	Cu.Yd.	Channel excavation				619		
S-1	162	Cu.Yd.	Class "C" concrete, superstructure and pier caps	146	16				
S-1.	52	Cu.Yd.	Class "E" concrete, abutments			52			
S-4	45,709	Lb.	Reinforcing steel	35,174	4,766	5,769			
S-14	146.12	Lin.ft.	Railing (Type I-15.13 with galvanized steel posts and bolts)	146.12					
S-15	Lump	Sum	Temporary run-around bridge and approaches				Lump		
S-16	Lump	Sum	First test pile				Lump		
S-18	1100	Lin.ft.	14" cast-in-place reinforced concrete piles		590	510			
S-24	Lump	Sum	Removal of existing structure				Lump		
S-29	17	Cu.Yd.	Porous backfill			17			
I-10	175	Cu.Yd.	Dumped rock channel protection				175		

GENERAL NOTES

REFERENCE shall be made to Standard Drawings CS-1-54 revised 7-16-56, A-1-54 revised 12-1-54 and P-1-54 revised 12-1-54.

TEMPORARY RUN-AROUND BRIDGE AND APPROACHES: Load frequency for bridge, CF=130, with unit stresses increased 25% as per Sec. 82 of the Design Specifications for Highway Structures. Bridge width 24'. Approach width, out-to-out of shoulders, 30'. Approach pavement shall be Class "A", 24' wide.

REMOVAL OF EXISTING STRUCTURE: When no longer needed to maintain traffic the existing structure shall be removed. Steel railing, curbs and posts shall be carefully dismantled and piled along the right-of-way for disposal by the State's forces.

PILES shall be driven to a minimum bearing capacity of 23 tons for the abutments and 30 tons for the piers.

PIER PILE ENCASEMENT as shown on Std. Dwg. No. P-1-54 may be omitted provided that the tapered portion, if any, of all pier piles does not extend above the stream bed or the proposed surface of the ground. If the tapered portion of any pile extends above these limitations, the encasement will be required for all the pier piles. If the encasement is omitted the pile casings shall have a thickness of metal not less than No. 7 gauge, and the painting of the piles shall extend to low water elevation or, if the proposed surface of the ground is above low water, the painting shall extend to at least one foot below the proposed surface of the ground.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

GENERAL PLAN, ELEVATION, NOTES & ESTIMATED QUANTITIES

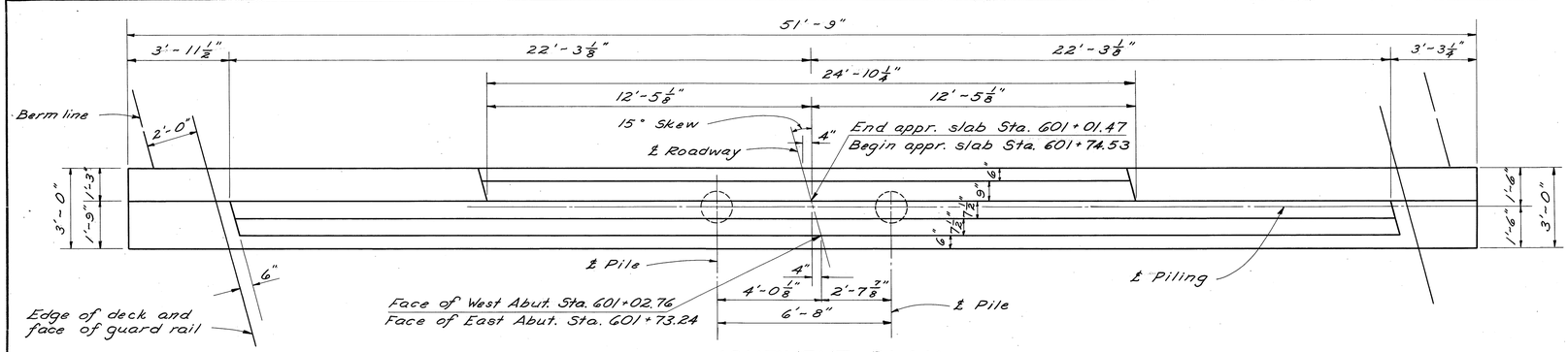
BRIDGE No. LOR-82-1138
over PLUM CREEK
LORAIN COUNTY STA. 601+01.47
STA. 601+74.53

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
pross	pross	RHD	TRO	BFG	9/9/57	

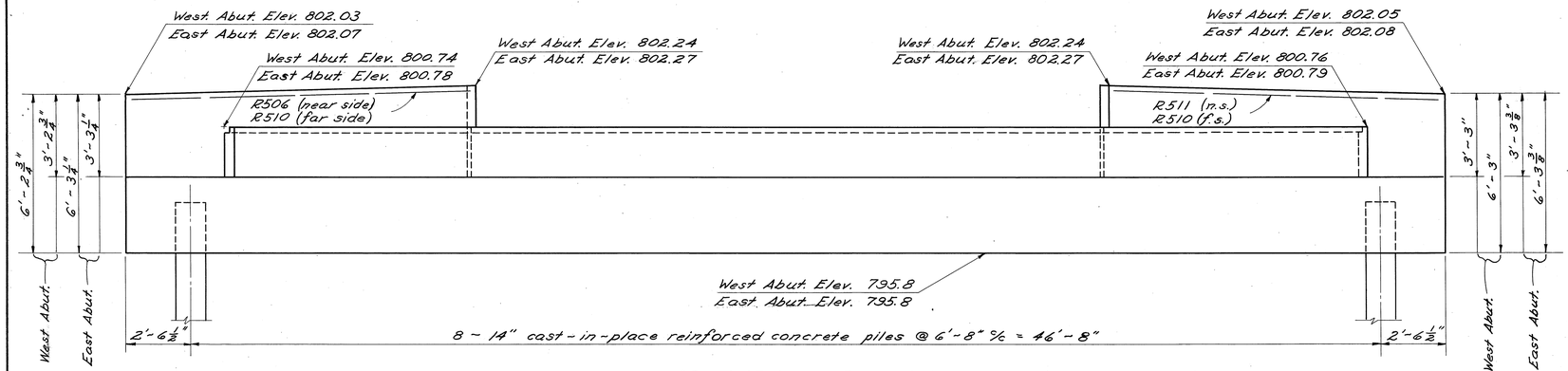
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

130
146

LOR-82-(4.79-12.47)

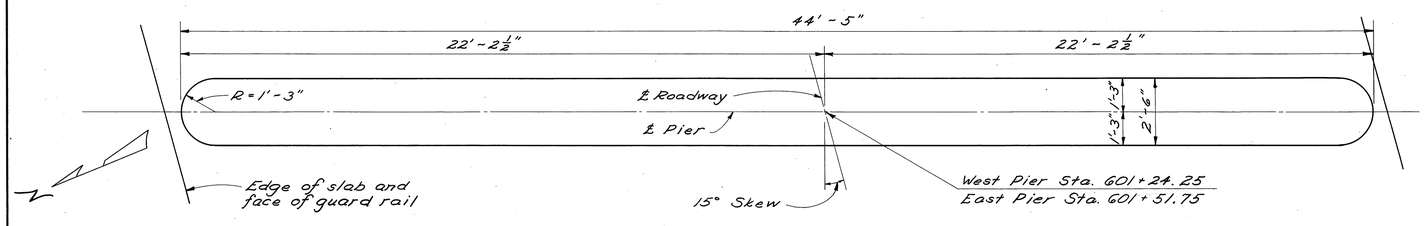


ABUTMENT PLAN

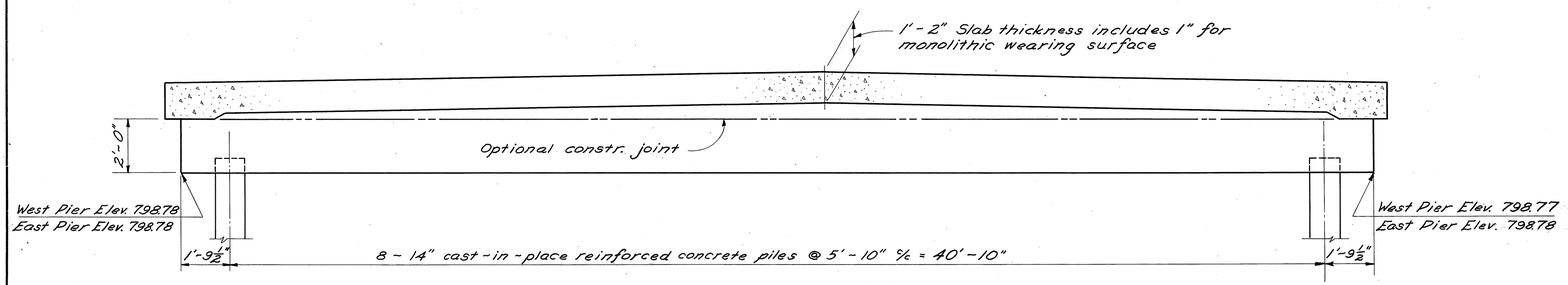


ABUTMENT ELEVATION

(For additional details see Std. Dwg. A-1-54)



PIER PLAN



PIER ELEVATION

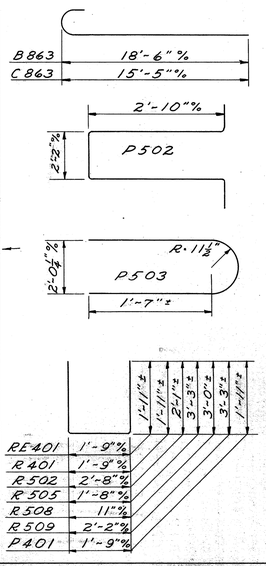
(For additional details see Std. Dwg. P-1-54)

REINFORCING STEEL LIST

MARK	No.	LENGTH	WEIGHT	SHP
		SUPERSTRUCTURE		
A 863	141	25'-11"	3,757	S
B 863	42	19'-7"	2,196	B
C 863	42	16'-6"	1,850	B
D 863	21	14'-8"	822	S
E 863	21	14'-4"	804	S
F 963	82	23'-8"	6,598	S
G 963	40	12'-1"	1,643	S
H 963	40	10'-4"	1,405	S
J 601	42	12'-11"	815	S
K 601	21	9'-4"	294	S
M 701	61	45'-0"	5611	S
N 601	50	45'-0"	3,379	S
		PIERS		
P 1001	16	24'-1"	1,658	S
P 901	16	22'-5"	1,219	S
P 701	96	4'-0"	785	S
P 501	8	21'-9"	181	S
P 502	68	9'-0"	638	B
P 503	8	6'-4"	53	B
P 401	64	5'-5"	232	B

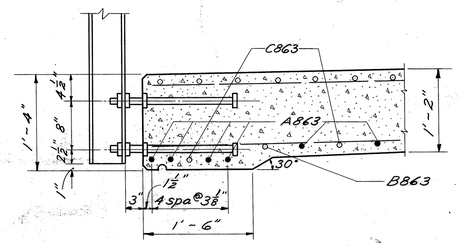
BENDING DIAGRAMS

B 863 18'-6" ⅝
C 863 15'-5"⅝



MARK	No.	LENGTH	WEIGHT	SHP
		ABUTMENTS		
R 100	16	23'-9"	1,635	S
R 801	16	27'-0"	1,153	S
R 501	16	26'-6"	442	S
R 502	156	6'-7"	1,071	B
R 503	8	22'-10"	190	S
R 504	24	5'-4"	133	S
R 505	34	7'-11"	281	B
R 506	2	13'-5"	28	S
R 507	16	4'-11"	82	S
R 508	28	6'-8"	195	B
R 509	28	8'-5"	246	B
R 510	4	13'-0"	54	S
R 511	2	12'-9"	27	S
R 401	64	5'-5"	232	B
		REPLACEMENT BARS		
RE 100	1	7'-2"	–	S
RE 901	1	6'-10"	–	S
RE 801	1	6'-6"	–	S
RE 701	1	6'-2"	–	S
RE 601	1	5'-11"	–	S
RE 501	1	5'-7"	–	S
RE 401	1	5'-5"	–	B

REPLACEMENT BARS: If reinforcing bars are fabricated from stock which has been previously tested and approved by the Ohio Highway Testing Laboratory, test samples as provided in Sec. S-4.02 need not be furnished and replacement bars will not be required.



EDGE BEAM DETAIL

(For additional details see Std. Dwg. C.S.-1-54)

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

ABUTMENT and PIER DETAILS and REINFORCING STEEL LIST

Bridge No. LOR-82-1138
over PLUM CREEK
Sta. 601+01.47
601+74.53
Lorain County

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
prosser	prosser	J.E.P.	TRO	BFG	9/9/57	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

LOR 82-(4.79-12.47)
R/W PLANS

1/16

PARCEL Nº	PROPERTY OWNER	AREA TAKEN	EXIST BLDG	SHEET Nº	REMARKS
1	The Spitzer Hardware & Supply Co.	0.73		3	
2	" " "	0.005		3	
3	" " "	0.43		3	
4	Frank Mate	0.18		3	
4 S	" "			3	
5	Central District Of The Lutheran Church	0.34		3	
6	John F. & Pauline D. Burke	0.07		3	
7	The Spitzer Hardware & Supply Co.	0.06		3	
8	E.F. & M.L. Kramchak	0.06		3	
9	Milton E. & Madiline Walters	0.06		3	
10	Jack & Catherine Norman	0.09		3	
11	Marnon F. Abbe	0.09		3	
12	Harold J. & Jean Stanislawski	0.13		3	
13	Gerald A. & Wilda L. Walker	0.07		3	
14	John J. & Catherine A. Tierney	0.10		3	
15	Eugene C. & Josephine A. Worley	0.09		3	
15 B	" "	0.15		3	
15 A	William F. & Eligene Becket	0.12		3	
16	The Spitzer Hardware & Supply Co.	0.06		3	
17	Richard & Helen Bittner	0.08		3	
18	Richard & Helen Bittner (Fee) Roland & Veta G. Hendrix (L.C.)	0.07		3	
19	Thomas E. & Elsie C. Kilpatrick	0.08		3	
20	Gladys S. & Desmond V. Fildes	0.80		3	
21	Anna Balough	2.11		3&4	
22	Harry T. & Jane F. White	0.35		3&4	
23	Albert W. & Roberta Lois Balogh	0.10		4	
24	Chester C. Carpenter	0.62		4	
25	Charles Yost	0.75	Yes	4	
26	Zoli J. & Elsie L. Balogh	0.32		4	
26 A	" " "	0.007		4	
27	William & John J. Sabol	0.88		4&5	
27 A	" " "	0.007		4	
28	James L. Wilson	0.22		4	
28 A	" " "	0.007		4	
28 B	James L. Wilson Et Al	0.07		4	
28 C	Frank V. & Garnet S. Mencl (L.C.) James L. Wilson (Fee)	0.07		4	
29	Darlton Henry & Elizabeth Yost	0.07		4	
30	William E. & Elfreda M. Myers	0.14		4	
31	Edward C. & Mary F. Castle (Fee) George W. & Wandra E. Walters (L.C.)	0.12		4	
32	Mitchell A. & Helen M. Madis	0.12		4	
33	Louis Schulman	0.12		4&5	
34	Anna Balogh (Fee) Philip Nowfel (L.C.)	0.13		5	
34 A	Anna Balogh (Fee) Chester Gibben (L.C.)	0.10		5	
35	Darl R. & Christine Landes	0.12		5	
36	Rodger E. & Margaret E. Karl	0.12		5	
37	William & Rose Balogh	0.12		5	
38	Anna Balogh	0.24		5	
39	William & John J. Sabol	0.07		5	
40	Porter E. & Edna W. Hardman	0.14		5	
41	Sherman A. Fisher	0.07		5	
42	Leslie & Lillian Brown	0.07		5	
43	Walter A. Loper	0.07		5	
44	Fred H. & Rose Christ	0.07		5	
45	Paul J. & Eileen A. Barnum	0.07		5	
46	Harold K. Rice	0.07		5	
47	Keith & Eleanor Rice	0.14		5	
48	Eaton Grange #1964	0.20		5	
49	Louis S. Weil	0.91	Yes	5	
50	Michael & Dela Haggerty	0.39		5	
51	Arthur W. Oldag Et Al	0.39		5	
52	Herschel E. Eakins	0.07		5	
53	Gerald O. & Alice E. Dobbins	0.07		5	
54	John Klimik Et Al	0.07		5	
55	John & Francis Rose Nosse	0.21		5&6	
56	Not Assigned				
57	Leon John Jobe	0.07		5&6	
58	George A. & Wilma Cabac	0.23		6	
59	Wilfred James & Gertrude Hess	0.07		6	
60	Albert & Mabel E. Matter	0.07		6	
61	Roy Shroyer	0.07		6	
62	Walter C. & Ruby P. Fishburn	0.53		6	
63	Midview Baptist Church	0.14		6	
64	Mary Schofield	0.07		6	
65	David & Helen Sellers	0.14		6	
66	Rachael A. Sellers (Fee) William C. Jr. & Beatrice M. Axford (L.C.)	0.07		6	
67	John L. Jr. & Anna M. Smith	0.07		6	
68	Willard J. & Doris M. Fisher	0.07		6	
69	Walter C. & Ruby P. Fishburn	0.71		6	
70	Kenneth F. & Evelyn P. Reed	0.52		6	
70 X	" " "	0.20		6	
71	John C. & Phoebe G. Lyons	1.17		6&7	
72	Keith & Ella Rice	0.11		6	
73	Mathilda Rice Splete	0.40		6	
73 X	" " "	0.17		6	
73 T	" " "				
74	Phoebe G. Lyons	0.58		6&7	
75	Richard E. & Betty Jane Hawke	0.12		7	
76	John C. & Nellie Lyons	0.12		7	
77	Phoebe G. Lyons	0.34		7	
78	Oswald & Eleanor Braurer	0.15	Yes	7	
78 A	" " "	0.03	Yes	7	
79	George V. & Fern I. Cornish	0.34		7	
80	Lyle E. & Marguerietta G. Jackson	0.08		7	
81	The Northern Ohio Telephone Company	0.035		7	
82	Eaton Grange Trustees	0.056		7	
83	The Northern Ohio Telephone Company	0.09		7	
84	Mary Cornish	0.092		7	
85	Eaton Church of Christ	0.20		7	
86	Clyde E. Crowell Et Al	0.30		7	
86 A	Cleon K. & Edna M. Crowell	0.08		7	
87	Frank & Elizabeth Mihalyi	0.96		7&8	
88	George W. & Martha G. Schmiot	0.07	Yes	7	
89	Gordon D. Tite & Martha G. Schmidt	0.06	Yes	7	
90	Fred & Pearl Phelps	0.104	Yes	7	
91	Delbert C. & Bertha L. Ables	0.07		7	
92	Board of Education Eaton Township	0.32		7	
93	Charles J. & Anna Podlesak	0.146		7	
94	Delmar T. & Edna M. Fugard	0.21		7&8	
95	William C. & Augusta Gehlke	0.15		8	
96	Stanley & Dominika Cegielski	0.52		8	
96 T	" " "			8	
97	Arthur & Bessie Smith	0.26		8	
97 X	" " "	0.39		8	
97 T	" " "	0.30		8	
98	Edmund F. Cegielski	0.13		8	
99	Lorain County Commissioners	0.56		8	
99 X	" " "	0.14		8	
100	Eaton Homes Inc.	0.04		8	
100 X	" " "	0.036		8	
101	Virgil & Patsy Ruth Pettry	0.04		8	
102	Ralph Festa	0.04		8	
103	Mohsen & Elizabeth Panahi	0.04		8	
104	Chester L. & Edith M. Evans	0.04		8	
105	Frank & Garnet Mencl	0.08		8	
106	" " "	0.09		8	
107	Midview Plaza Inc.	0.29		8&9	
108	Edward F. Hoban	0.03		8	
109	William E. & Ivy Weston	0.63		8&9	
109 X	" " "	0.15		8	
110	Wallace R. & Ruth M. Forbes	0.11		9	
111	No R/W Taken			9	
112	Samuel Garretson	0.11		9	
113	Don S. Cook	0.51		9	
113 X	" " "	0.12		9	
114	Fern Cornish Et Al	1.52		9	
114 A	" " "	0.008		9	
114 B	Tremarco Corp	0.12		9	
115	Everett J. & Lola Eveland	0.07		9	
116	George Bedford & Mary Forrest	0.23		9	
117	Charles W. Gertrude L. Tompkins	0.08		9	
118	William & Pauline Koberna	0.08		9	
119	Don S. Cook	0.01		9	
120	Robert E. & Ethel Kannenberg	0.26		9	
120 A	Bertha P. Kannenberg	0.26		9&10	
121	Frank & Anna Keller	0.72		10	
122	Frank & Garnet Mencl	0.50		10	
123	Ashland Oil & Refining Co.	0.03		10	
124	Frank & Garnet Mencl	0.37		10	
125	New York Central Railroad			10	
126	August H. & Anna M. Johnson	0.02		10	
126 T	" " "			10	
127	William R. Schmidt (Title Holder) Robert H. & Dallie M. Greene (L.C.)	0.06		10	
127 T	" " "			10	
128	August H. & Anna M. Johnson	0.09		10	
128 T	" " "			10	
129	William Allen & Mabelle Kathryn Walker	0.027	Yes	10	
130	No R/W Taken			10	

LOR 82-(4.79-12.47) R/W 1 OF 16

5-30-58

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

LOR 82-(4.79-12.47)
R/W PLANS

2/16

PARCEL Nº	PROPERTY OWNER	AREA TAKEN	EXIST BLDG	SHEET Nº	REMARKS
131	Russell R. & Leona Mayer Fitch	0.08		10	
132	Emil & Cassie L. Smith	0.09		10	
133	Burt & Gina Sandvick	0.06		10&11	
134	No R/W Taken			10	
135	" " "			10	
136	" " "			10	
137	" " "			10	
138	" " "			10	
139	Farm Heating Inc.	0.18		10	
140	Lester & Dorothy E. Schenfield	0.28		11	
141	Ernest E. & Elizabeth M. Hawke	0.53		11	
142	Laverne D. & Russell K. Carpenter (Fee) Peter P. & Margaret T. Bukowski (L.C)	0.11		11	
143	Alrin H. & Birdie McMillan	0.06		11	
144	Howard Taylor	0.06		11	
145	Warren E. & Ruby E. Purdy	0.06		11	
146	Martin A. Meyer	0.06		11	
147	Dorothy M. & William J. Jr. Norris	0.06		11	
148	Roman D. & Marie Haskins	0.06		11	
149	Justin A. & Mildred Underwood	0.06		11	
150	Walter L. & Rose Nickel	0.06		11	
151	Donna M. Cazeau (Fee)	0.19		11	
152	Laverne D. & Russell K. Carpenter	0.44		11	
153	Lawrence W. & Dorothy M. Armbruster	0.1		11	
154	George T. & Hazel E. Harrison	0.30		11	
154 A	" " "	0.006		11	
155	Kate M. Rothel	1.26		11&12	
155 A	" " "	0.01		11	
156	Ben & Kate Yorkavitz	0.53		12	
157	William & Edna Kolonick	0.06		11	
158	Minnie A. Kolonick	0.04		11	
159	Elizabeth Wagner	0.04		11	
160	Conrad Roschival	0.44		11&12	
161	Wilbur D. Hawke	0.23		12	
162	Roy W. Wallweber & Clara Wallweber Houston (L.E)	0.60		12	
163	Charles L. & Kathryn H. Johnson	0.14		12	
164	Ohio Edison Co.	All		12	
165	Earl M. & Mary Edna Rough	0.31		12&13	
166	Reuben & Evelyn M. Walkden	0.63		12	
166 X	" " "			12	
167	Richard R. & Helen Walkden	0.23		12&13	
168	Reuben, Evelyn M. & Richard R. Walkden	0.66		13	
169	Fred Probst	0.07		13	
170	Henry A. & Dorothy F. Fulkroad	0.07		13	
171	Leon R. & Donna C. Rising	0.69		13	
172	Spitzer Motors Inc.	0.05		13	
173	Martha Taylor, Marlene Ann & Jack C. Peterson	0.04		13	
174	Richard George & Marian Catherine Kurman	0.04		13	
175	Louis & Rose Kruman	0.04		13	
176	Donald J. & Betty J. Prusha	0.04		13	
177	Mary B. & Bennie A. Johnson	0.04		13	
178	Elizabeth & Ned W. Griffith	0.04		13	
179	Bernard A. & Freda T. Bunner	0.04		13	
180	Paul K. & Helen J. Fulkroad	0.04		13	
181	Cary E. & Eunice H. Pfaff	0.04		13	
182	Herbert E. & Mildred L. Isenhour	0.04		13	
183	Elmer J. & Dorothy A. Eury	0.04		13	
184	Alfred J. Braat	0.04		13	
185	Ann M. Braat	0.04		13	
186	James F. Braat	0.04		13	
187	William A. & Elizabeth Wagner	0.09		13	
188	" " "	0.04		13	
189	Louise J. & Wm. R. Wagner	0.04		13	
190	Fred Probst	0.05		13	
191	Frederick A. & Sarah M. Castle	0.12		13&14	
191 A	" " "	0.01		14	
192	Warren E. & Marjorie A. Terrill	0.07		13	
193	Joesph M. & Mildred E. Paine	0.06		13	
194	Fred Probst	0.06		13	
195	" "	0.06		13	
196	William James & Roberta Nash	0.06		13	
197	Fred Probst	0.06		13	
198	" "	0.06		13	
199	" "	0.06		13	
200	" "	0.06		13	
201	" "	0.19		13&14	
201 A	" "	0.002		14	
202	Tremarco Corr	0.08		14	
202 A	" "	0.001		14	
203	Fred Probst	0.35		14	
204	Ralph B. & Ruth E. Stepp	0.16		14	
204 X	Ralph B. & Ruth E. Stepp	0.14		14	
205	Edward F. & Helen Hayas	0.34		14	
205 X	" " "				
206	Douglas & Elizabeth Keyse	0.14		14	
206 A	" " "	0.02		14	
207	William W. & S. Charlene Woodcock	0.13		14	
208	Robert O. & Della Bennet	0.07		14	
209	Guy Douglas Jr. & Clara Bennet Payne	0.35		14	
209 X	" " "	0.12		14	
210	Stephanie Forsythe	0.31		14	
211	Russell W. & Viola Miller	0.06		14	
212	Frank H. & Margaret B. VanArsdale	0.09		14	
213	Felix & Julia Impiccini	0.05		14	
214	Ralph W. Heckler	0.07		14	
215	Roger P. & Jean V. Semet	0.13		14	
215 WA	" " "				
216	Franklin Delano Wilson	0.06		14	
217	Horace C. & Lucy O. Dessie Wilson	0.06		14	
218	David Ban Et Al	0.06		14	
219	Nettie E. Myers	1.00		14&15	
220	Emery & Elsie F. Tomes	0.30		14	
221	Leon R. & Donna Cletzer Rising	0.30		14	
222	Helga S. Forsmark	0.10		14	
222 A	Gordon L. & Evelyn R. Forsmark	0.06		15	
223	Mary S. Pinckney	0.30		14&15	
224	Herman E. Parclson	0.04		15	
225	Wallace Rundle Et Al	0.79		15	
226	Marvin H. & Virginia G. Calhoun	0.06		15	
227	Nettie E. Myers	0.12		15	
228	Acme Grange # 1440	0.13		15	
229	Edward P. Madok Post # 9340 V.F.W.	0.05		15	
230	Ohio Edison Co.	0.20		15	
231	Clair F. Howard	0.12		15	
232	Trustees of Columbia Township			15&16	
233	Grant & Leona Rundle	0.11		15	
234	Clarence Allen & Roberta Evelyn Smith	0.01		15	
235	William & Nora Ingersoll	0.04		15	
236	Ray & Calista Howard	0.09		15	
237	Zelma H. Hitchcock	0.18		15&16	
238	Board of Education Columbia Township Et Al	0.06		16	
238 A	Columbia Twp. Trustee	0.10		16	
239	Methodist Episcopal Church	0.29		16	
240	Herbert A. & Lorena P. Garmon	0.02		16	
241	Trustees of the First Baptist Church Columbia Twp.	0.04		16	
242	Columbia Twp. Trustees	0.02		16	
243	Methodist Church (Parsonage)	0.03		16	
244	Russell B. & Margaret M. Reisinger	0.04		16	
245	Mary Ann B. & James A. Moraghan	0.02		16	
246	William E. Mayer	0.34		16	
107 A	Frank Mencl Et Al	0.10		8-9	

5-30-58

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

133 / 148

3 / 16

LOR-82-(4.79-12.47)

RIGHT OF WAY PLANS

CURVE DATA

P.C. = 257+91.05	P.C.C. = 260+57.75	P.C.C. = 262+29.14
P.I. = 259+24.52	P.I. = 261+43.50	P.I. = 263+62.61
P.C.C. = 260+57.75	P.C.C. = 262+29.14	P.T. = 264+95.84
Δ = 6°00' LT	Δ = 5°08' 30" LT.	Δ = 6°00 LT.
D = 2°15'	D = 3°00'	D = 2°15'
T = 133.47'	T = 85.75'	T = 133.47'
L = 266.70'	L = 171.39'	L = 266.70'
E = 3.49'	E = 1.92'	E = 3.49'
R = 2546.76'	R = 1909.86'	R = 2546.76'

LOT 95 + 96 EATON TWP. T5N R16W

LOTS 95 + 96 EATON TWP T5N R16W LOTS 85 + 86

LOR 82 (4.79-12.47) R/W 3/16


5-28-1958
10-14-1937

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

134/148

LOR 82 (4.79-12.47)
RIGHT OF WAY PLANS

4/16



5-28-1958
11-5-1957
10-14-1957
9-11-1957

LOR-82-(4.79-12.47) R/W 4/16

SABOL ALLOTMENT NO 1 VOL 17 PAGE 17A

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

135/148

LOR 82 (4.79
RIGHT OF WAY PLANS

5/16

EATON GRANGE #1964

JOHN J. + WILLIAM SABOL (27)

JOHN J. + WILLIAM SABOL — LOT #6 (39) — LOT #5 (40)

PORTER E. + EDNA W. HARDMAN — LOT #4 — 1 STY RES

SHERMAN A. FISHER (41) — LOT #3 — Res.

LESLIE + LILLIAN BROWN — LOT #2 (42)

WALTER A. LOPER — LOT #1 (43)

FRED H. + ROSE CHRIST (44) — 1 STY. FR. RES.

PAUL J. + EILEEN A. BARNUM (45)

HAROLD RICE (46)

KEITH + ELEANOR RICE (47) — 1 STY. BR. RES.

(48)

318+20.98 LOT LINE — 319+20.94 LOT LINE — 321+20.9 LOT LINE — 322+20.9 LOT LINE — 323+20.9 LOT LINE — 324+20.9 LOT LINE — 325+20.9 — 326+20.9 — 327+20.8 — 329+20.8

60' 318+20.98 / 30' 318+20.98 — 60' 319+20.94 / 30' 319+20.94 — 60' 321+20.9 / 30' 321+20.9 — 60' 322+20.9 / 30' 322+20.9 — 60' 323+20.9 / 30' 323+20.9 — 60' 324+20.9 / 30' 324+20.9 — 60' 325+20.9 / 30' 325+20.9 — 60' 326+20.9 / 30. 326+20.9 — 60' 327+20.8 / 30' 327+20.8 — 60' 329+20.8 / 30' 329+20.8

FILTER BED — LEACH BED — Leach Bed — Abandon — FILTER BED — 4" Tile — NEW RES. — G. — RESIDENCE — 198' — Res.

60' 329+95.55 — R= 43,031.83'

R= 42,911.83'

316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331

S 85°-25' E

30' 317+10.1 / 60' 317+10.3 — 30' 318+91.2 / 60' 318+91.4 — 30' 320+35.2 / 60' 320+35.4 — 30' 322+15.4 / 60' 322+15.6 — 30' 323+95.6 / 60' 323+95.8 — 30' 325+76 / 60' 325+76.2 — 30' 329+24.5 / 60' 329+24.5 — 60' 329+95.55

P.C. = 329+95.55
P.I. = 332+20.55
P.T. = 334+45.55
Δ = 0°-36' RT.
D = 0°-08'
T = 225.00'
L = 450.00'
E = 0.60'
R = 42,971.83'

P.C. 329+95.55

(33) LOUIS SCHULMAN — P 317+09.9

ANNA BALOGH (Fee) PHILIP NOWFEL (L.C.) (34) — P 318+91

ANNA BALOGH (Fee) CHESTER A. GIBBEN (L.C.) (34A)

(35) DARL R. & CHRISTINE LANDES — P 320+35

(36) MARGARET E. & ROGER E. KARL — Res. — P 322+15.2

(37) WILLIAM & ROSE BALOGH — P 323+95.4

ANNA BALOGH (38) — P 325+75.8

LOUIS S. WEIL (49) — P 329+24.5

LOTS 75+76 - EATON TWP - T5N - R16W

LOTS 65+66 - EATON TOWNSHIP - T5N - R16W

EATON GRANGE #1964 (48)

MICHAEL & DELIA HAGGERTY (50)

ARTHUR W. OLDAG ET AL (51)

HERSCHEL E. EAKINS (52) — GERALD O. DOBBINS (53) — LEON JOHN JOBE (57)

LOT #75 — LOT #66 — LOT #76 — LOT #65

332+20.5 — 334+78.6 — 337+78.6 — 342+42.14 — 343+38.3 — 344+46.6 — 345+54.9

60' 332+20.5 / 30' 332+20.5 — 60' 334+45.55 — 60' 337+77.6 / 30' 337+78.1 — 60' 342+42.14 — 60' 343+36.9 / 30 343+37.6 — 60' 344+45.2 / 30' 344+45.9 — 60' 345+53.5 / 30' 345+54.2

R = 43,031.83'

R= 42,911.83'

331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346

S 84°-49' E — S 84°-55'-30" E

Abandon — 89°03'-36" — Gas Tanks — 2" Line — Tank — HOUSE TRAILER — FILTER BED — 1 STY FR RES — 1 STY FR RES — 1 STY RES — 1 STY RES — 126' RES

60 331+00 — 60' 334+45.55 — 30' 342+41.8 / 60' 342+42.3 / 60' 342+42.14 — 30' 343+48.1 / 60 343+48.6

P.I. 342+48.14 Δ=0°-06'-30" LT — P 343+47.7

(54) JOHN & AUSTIN Q. KLIMIK — (55) JOHN & FRANCES ROSE NOSSE

LOUIS S. WEIL (49)

PARCEL No. 56 NOT ASSIGNED
11-4-1957
5-28-1958 10-14-1957
REV 9-16-1957

LOR 82 (4.79-12.47) R/W 5/16

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

136
148

G
16

LOR 82-(4.79
RIGHT OF WAY PLANS

LEON JOHN JOBE (57) | GEORGE A. + WILMA CABAC (58) | WILFRED J. & GERTRUDE HESS (59) | ALBERT & MABLE E. MATTER (60) | ROY SHROYER (61) | WALTER C. & RUBY P. FISHBURN (62) | BAPTIST CHURCH (63)

JOHN & FRANCES ROSE NOSSE (55) | MARY SCHOFIELD (64) | DAVID + HELEN SELLERS (65) | RACHAEL A. SELLERS (FEE) WILLIAM C. JR. & BEATRICE M. AXFORD (L.C.) (66) | JOHN L. JR. + ANNA M. SMITH (67) | WILLARD J. + DOROTHY M. FISHER (68) | WALTER C. & RUBY P. FISHBURN (69)

LOT 65+66 EATON TWP T5N R16W

P.C. = 357+99.39
P.I. = 359+93.14
P.T. = 361+86.89
Δ = 0°-15'-30" RT
D = 0°-04'
T = 193.75
L = 387.50
E = 0.22
R = 85,943.67

BAPTIST CHURCH (63) | KEITH + ELLA RICE (72) | MATILDA RICE SPLETE (73T, 73X, 73) | PHEOBE G. LYONS (74)

WALTER C. & RUBY P. FISHBURN (69) | KENNETH F. + EVELYN REED (70, 70X) | JOHN C. + PHEOBE G. LYONS (71)

P.C. = 367+38.65
P.I. = 370+63.65
P.T. = 373+88.65
Δ = 0°-26' RT
D = 0°-04'
T = 325.00'
L = 650.00'
E = 0.62'
R = 85,943.67'

LOT 55+56 EATON TWP T5N R16W

5-28-1958
10-14-1957

LOR 82 (4.79-12.47) R/W G/16

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

137/148

7/16

LOR 82 (4.79 - 12.47)
RIGHT OF WAY PLAN

PHEOBE G. LYONS (74) | RICHARD E. & BETTY JANE HAWKE (75) | JOHN C. & NELLIE LYONS (76) | PHEOBE G. LYONS (77) | GEORGE V. & FERN I. CORNISH (79)

CURVE DATA
P.I. Sta. 387+85.11
Δ - 0°-30' Lt.
D - 0°-04'
T - 375.00'
L - 750.00'
E - 0.82'
R - 85943.67'

LOT 55 | LOT 46 | LOT 45 | LOT 25

OSWALD & ELEANORA BRAURER (78A, 78)

LYLE E. & MAGUERITE G. JACKSON (80) | THE N. OHIO TELE. CO. (81) | TRUSTEES OF EATON GRANGE #1964 (82) | THE NORTHERN OHIO TELEPHONE CO. (83) | MARY CORNISH (84) | EATON CHURCH OF CHRIST (85)

JOHN C. & PHEOBE G. LYONS (71)

LOT - 55+56 EATON TOWNSHIP T5N - R16W

LOT - 45 & 46

LOTS 45+46 · EATON TOWNSHIP T5N R16W

GEORGE V. & FERN I. CORNISH (79) | FRED & PEARL PHELPS (90) | DELBERT C. & BERTHA L. ABLES (91) | BOARD OF EDUCATION - EATON TOWNSHIP (92) | CHARLES J. & ANNA C. PODLESAK (93) | DELMER T. & EDNA M. FUGARD (94)

GEORGE W. & MARTHA G. SCHMIDT (88) | GORDON D. TITE & MARTHA G. SCHMIDT (89)

EATON CHURCH OF CHRIST (85) | CLYDE E. CROWELL ET AL (86, 86A) | FRANK & ELIZABETH MIHALYIA (87)

CLEON K. & EDNA CROWELL

5-28-1958
10-14-1957

LOR 82 (4.79 - 12.47) R/W 7/16

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

138
148

LOR-82-(4.79-12.47)
RIGHT OF WAY PLANS

8
16

93 | 94 | 95 | 96 | 96T | 97

DELMAR T. & EDNA M. FUGARD

WILLIAM C. & AUGUSTA GEHLKE

STANLEY & DOMINIKA CEGIELSKI

409+45.5 ℄ | 413+11.7 ℄ | 415+74.30 ℄ | 424+73 ℄

SERVICE STATION | 2 STY. RES. | 1 STY. RES. | BARN | TOOL SHED | ELEC. PUMP | 2 STY. RES. | 1 STY. CONC. STONE | STONE | 2 STY. FR. RES. | CISTERN

55' 409+44.3
30' 409+44.8
55' 413+10.5
30' 413+11.0
55' 415+74.3
30' 415+74.3
55' 424+73
30' 424+73

LOT #46 | LOT #35 | Sta 421+00

KIDDIELAND PARK

12" C.M.P. | 8" Tile | 5" Tile Ex. in/e | 8" V.S.P. | 4" Tile? | 3" Tile

℄ Temporary Run-around

409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425

S 84°-44'E | S 84°-44'-30"E

GAS LINE | UNDERGROUND TELE | 58" Tile | 8" Tile | 20' | 24' | 30' | 60' | 90°

Telephone Cable (Underground) | Gas Line

30' 415+74.3
60' 415+74.3
30' 417+56.5
60' 417+57.1

1 STY. RES. | 95'

LOT 45 P.I. STA. 415+74.30 Δ = 0°-00'-30" LT. LOT 36

417+55.8

87 | 98 | 99 | 99X

FRANK & ELIZABETH MIHALYIA

EDMUND F. CEGIELSKI

Block "A" PARK LORAIN COUNTY COMMISSIONERS

EATON HOMES SUBDIVISION Vol.-17 P.-38

WILLOW CREEK

60' 424+50
110' 424+50
10" V.S.P.
M.H.

LOT-45 & 46 EATON TWP. T-5N R-16W LOT-36 & 35

97 | 97X | 97T | 108

ARTHUR & BESSIE SMITH

EDWARD F. HOBAN BISHOP OF CLEVELAND

424+73 ℄ | 429+20 ℄

55' 425+50
55' 424+73
30' 424+73
140' 426+75
140' 428+00
55' 428+00
55 429+20.5
30' 429+20.3
55' 429+80.4
30' 429+80.2
167' 433+55
55' 433+55
179' 434+10
55' 434+10

97X | 97T | CREEK | 40' Temp. | ℄ Temporary Run Around | 3" Tile

109X | 109 | WILLIAM E.& IVY WESTON

LEASED TO JULIAN W. PERKINS
PARTIAL RELEASE OF LEASE WAS NOT ACQUIRED.

Lease Line | LOT 35 | LOT 26 | 441+02.10 ISLAND RD

DAIRY QUEEN | PARKING AREA 4" Tile | SIGN

55' 436+63.28
30' 436+62.74
55' 439+13.28
55' 440+71.3
30' 440+71.7
30' 439+12.74

℄ Elect. Traffic Counter

425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440

S 84°-44'-30"E | 88°46'30" | 88°46'30"

BURIED TEL. CABLE | GAS LINE | 10" V.S.P. | M.H. | 8" V.S.P.

WILLOW

Abandoned | RES. | Res. | Res. | Res.

55' 426+10
55' 426+43.2
30' 425+67.6
55' 425+68.2
30' 427+17.6
55' 427+18.2
30' 427+92.6
55' 427+93.2
30' 428+67.6
55' 428+68.2
30' 429+42.6
55' 429+43.2
60' 425+68.3
110' 425+69.3
30' 430+52.5
55' 430+90.8
30' 432+52.6
55' 432+17.4
30' 433+83.5
55' 433+84.1
30' 439+21.43
55' 439+20.76
30' 440+72.7
55' 440+73.1

105 | FRANK & GARNET MENCL Lot-464 | 106 | FRANK & GARNET MENCL Lot-463 | 107 | MIDVIEW PLAZA INC. Block "B" | 107A | Leased to Texas Oil Co. | Conc. block building | FRANK & GARNET MENCL

EATON HOMES INC. | VIRGIL & PATSY RUTH PETTREY | RALPH FESTA | MOSHEN & ELIZABETH PANAHI | CHESTER L. & EDITH M. EVANS

425+67 ℄ | 426+42 ℄ | 427+17 ℄ | 427+92 ℄ | 428+67 ℄ | 429+42 ℄

99 | 99X | 100 | 100X | 101 | 102 | 103 | 104

Lot-471 | Lot-470 | Lot-469 | Lot-468 | Lot-467

Lot-465 ℄

E. EATON BOULEVARD 431+52.67

433+82.9 Gas Line

EATON TWP. T-5N R-16W LOT-36 & 35

EATON HOMES SUBDIVISION Vol.-17 P.-38

8-23-57

11-17-1958
6-23-1958
5-28-1969
10-14-1957

LOR 82 (4.79-12.47) R/W 8/16

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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LOR 82 (4.79 - 12.47) RIGHT OF WAY PLANS

9 / 16

WILLIAM E. & IVY WESTON (109) — WALLACE & RUTH M. FORBES (110) — DARIEL & RETHA LIVELY (111) — SAMUEL GARRETSON (112) — DON S. COOK (113) (113 X)

LOT- 35 — ISLAND RD. — LOT- 26

PI: 441+03.06
Δ = 0°-02'-30" Rt.

444+05.8 ℄

℄ 445+72.3 — 1.P. — 1.P. — ℄ 447+60.9

2½ STY FR. RESIDENCE

55' 440+71.3 / 30' 440+71.7

55' 441+31.3 / 30' 441+31.7

55' 444+05.8 / 30' 444+05.8

FR. RES. GAR.

CONC. BLOCK SERVICE STA

1 STY RES

DRIVE

55' 445+72.3 / 30' 445+72.3

2 STY RES.

55' 447+60.9 / 30' 447+60.9

140' 453+50 / 55' 453+50

140' 454+10 / 55' 454+10

113 X

12 CMP — 18 CMP — 6" V.S.P. — 6" Tile — 14" Field Tile — 24" C.I.P. — 12" Field Tile

440 — 441 — 442 — 443 — 444 — 445 — 446 — 447 — 448 — 449 — 450 — 451 — 452 — 453 — 454 — 455

S 84°-44' 30" E — S 84°-42' E

BURIED TELEPHONE LINE

107 A — Leased to Texas Oil Co. — Conc. block building — FRANK & GARNET MENCL

8" V.S.P.

107

30' 440+72.7 / 55 440+73.1

MIDVIEW PLAZA INC. Block "B"

LOT- 36 — ISLAND RD. — LOT- 25

℄ 441+01.10

30 441+32.7 / 55 441+33.2

Conc. blk. bldg.

114 B

TREMARCO CORP.

200'

443+32.7 30' / 443+32.7 55'

55' 455+00

2 STY FR RESIDENCE

114

FERN CORNISH
ROBERT J. GRILLS
WALTER C. GRILLS
CLYDE A. GRILLS

EATON TOWNSHIP T-5N R-1GW LOT- 25 & 26

DON S. COOK (113) (113 X) — EVERETT J. & LOLA EVELAND (115) — GEORGE BEDFORD & MARY FORREST (116) — CHARLES & GERTRUDE TOMPKINS (117) — WILLIAM & PAULINE KOBERNA (118) — DON S. COOK (119) — ROBERT E. & ETHEL KANNENBERG (120) — BERTHA P. KANNENBERG (120 A)

456+53.0 ℄ — 457+87.2 ℄ — 461+90.4 ℄ — 463+24.7 ℄ — 464+59 ℄ — 464+74.7 ℄ — 469+30.7 ℄

LOT- 26 — LOT- 15

1 Sty Res.

55' 456+53.5 / 30' 456+53.2

55' 457+87.7 / 30' 457+87.5

1 STY FR RESIDENCE

55' 461+90.9 / 30' 461+90.7

1 STY FR. RES

55' 463+25.2 / 30' 463+25

55' 464+59.5 / 30' 464+59.3

RES

55' 464+75.8 / 30' 464+75.3

1½ STY FR. RES.

55' 469+49.5 / 30' 469+50

6" Tile

455 — 456 — 457 — 458 — 459 — 460 — 461 — 462 — 463 — 464 — 465 — 466 — 467 — 468 — 469 — 470

S 81°-42' E

4" Field Tile

BURIED TEL. CABLE

4" Field Tile

55' 455+00

12" C.I.P.

Sign

55' 469+45 / 30' 469+59.3 / 55' 469+59.8 / 100' 469+60.7

114 A

114

FERN CORNISH
ROBERT J. GRILLS
WALTER C. GRILLS
CLYDE A. GRILLS

EATON TOWNSHIP T-5N R-1GW LOT- 25 & 26

LOT- 25 — E. REED ROAD 469+88.61 — LOT- 16

7-1-1958
5-28-1958
1-27-1958
1-15-1958
10-14-1957

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

140/148

LOR-82-(4.79-12.47)
RIGHT WAY PLANS

10/16

BERTHA P. KANNENBERG (120A) — FRANK & ANNA KELLER (121)

LOT 26 / LOT 15 — LOT 25 / LOT 16 — ℄ & BEED RD. 469+88.61

1½ STY. FR. RES. — GAR. — 2 STY. FR RES. — 8" Tile — 12" CMP — 60" Conc. — Leach Field — SIGN

55' 474+22 — 30' 474+22 — 474+23 — 30' 470+19.3 — 55' 470+19.8

470 — 471 — 472 — 473 — 474 — 475 — 476 — 477 — 478 (S 84°42'E) — 479 — 480 — 481 — 482 — 483 — 484 — 485 — 486

UNDERGROUND TEL. CABLE — Leach Field — 2 STY. FR RES. — 1 STY. HEATING & SUPPLY CO. — CONC. BLK. SERV. STA. — ASHLAND OIL CO. (123) — 30' 480+67.7 — 45' 480+67.6 — 55' 480+67.6 — 30' 481+67.7 — 45' 481+67.6 — 55' 481+67.6

1½ STY. RES. — 55' 483+22.98 — R=85888.67' — 3" Tile — ℄ Temporary Run Around — 1½ STY. FR. RES. — ASHINGTON DRIVE

Parcel Nos. 1, 2, 3 & 4 shown hatched above and Nos. 2-X & 3-X was acquired in 1953 for LOR-82-9.01

FRANK & GARNET MENCL (122) — FRANK & GARNET MENCL (124)

EATON TWP. T-5N R-16W LOT-15 & 16

CURVE DATA
P.I. Sta. 484+72.98
Δ - 0°-12' Rt.
D - 0°-04'
T - 150.00'
L - 300.00'
E - 0.13'
R - 85943.67'

FRANK & ANNA KELLER (121) — 2 STY. RES + GAR. — 2½ STY. RES. — 55' 486+22.98 — 30' 488+50.3 — 55' 488+84.1 — 30' 488+02.7 — 45' 488+10.5 — 45' 490+14 — RAILROAD CO.

R=85888.67' — 5" Tile — 143.5' N-84°30'W — 143.5' S-84°30'E — N-50°01'E — 125 — 125 SL — 125 SL-1 — 125 T

℄ Temporary Run-Around — 6" Cul. Tile — 10' TEMP. — 170.5 S-84°30'E — 170.5 N-84°30'W — N-50°54'E — 488+13.6 — S-56°54'W — NEW YORK CENTRAL — PT Sta. 486+22.98 — 30' 488+33.9 — 55' 488+00.2 — 30' 490+04.3 — 45' 488+84.1 — 30' 490+60.1 — ℄ 490+44.7 — 488+74.2

1½ STY. FR. RES. — WILLIAM R. SCHMIDT (T.H.) — ROBERT H. & DALLIE M. GREENE (L.E.) — 45' 490+60.4 — 127 — 127 T

AUGUST H. & ANNA M. JOHNSON — 126 — 126 T

DAVID G. JAEGER (134) — CHARLES K. AUSTIN (135) — 2 STY BLD — 2½ STY FR. LUMBER CO — 2 STY RES — 491+96.2 — 491+84.2 — 491+96.1

AUGUST H. & ANNA M. JOHNSON — 128 T — 128

MICHAEL L. BEHLKE ET AL (136) — 2 STY APT — 1½ STY RES — 495+64.4 — LOT 15 / LOT 16 — H GARMAN (137) — 496+29.0

2 STY. RES. — 129 — 30' 494+86.8 — 45' 494+87.1 — 60' 494+87.5 — 30' 495+26.8 — 60' 495+27.5 — 1½ STY. FR. RES. — 130

DOROTHY E. TRAXLER — LOT 16 — F. & CONLEY 495+96.14 — LOT 5

WILLIAM A. & MABELLE K. WALKER (120)

RUSSELL R. & LEONA MAYER FITCH (138) — GAR. — CONC. BLK. HARDWARE — Conc. Walk. — Veg. Stand — SIGN — 497+88.7 — 55' 497+88.5 — 30' 497+88.6 — 2 STY. FR. RES. — 30' 495+86.8 — 45' 495+87.2 — 30' 498+12.6 — 45' 498+13 — 1½ STY. FR. RES.

FRAM HEATING INC. (139) — 500+98.7 — 55' 500+99.8 — 30' 500+99.3 — 8" Corr. M. Pipe — 45' 500+75.8 — 30' 500+75.5 — 55' 500+76.1 — 133

RUSSELL R. & LEONA MAYER FITCH — LOT-5 & 6 — 131 — ℄ 498+11.7

EMIL & CASSIE SMITH (132) — ℄ 500+74.8

LOT-15 & 16 EATON TWP. T-5N R-16W

5-28-1958
10-14-1957

LOR-82-(4.79-12.47) R/W PLANS 10/16

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

141 / 148

LOR - 82 (4.79 - 12.47)
RIGHT OF WAY PLANS

11 / 16

Parcel Nos. 1 & 2 shown hatched below and Nos. 1-X & 2-X was acquired in 1944 for S.H.-36 Sec.-M LO-82-27.

FRAM HEATING INC. (139)

LESTER & DOROTHY SCHENFIELD (140)

ERNEST E. & ELIZABETH M. HAWKE (141)

LAVERNE D. & RUSSELL CARPENTER (142)

500+38.7 — 505+84.8 — 514+96.4

55' 500+99.8 / 30' 500+99.3

55' 505+83.8 / 30' 505+84.3

55' 514+95.6 / 30' 514+96.0

2 STY FR. RES.

2½ STY F. RES.

WELL

GAR.

2 G" Tile

4" Tile

ABANDON

FLOWER BED

1½ STY F. RES.

CONC. BLK GAR.

30' 513+08.7 / 55' 513+08.9

30' 500+75.5 / 55' 500+76.1 — (132) EMIL & CASSIE SMITH

30' 501+75.6 / 55' 501+76.2 — (133) GEORGE & CATHERINE SKULLR, Parcel-7

30' 502+75.6 / 55' 502+76.2 — (143) ALRIN H. & BIRDIE Mc MILLAN, SL-6

30' 503+75.4 / 55' 503+76.0 — (144) HOWARD TAYLOR, Parcel-5

30' 504+75.4 / 55' 504+76.0 — (145) WARREN E. & RUBY E. PURDY, SL-4

30' 505+75.5 / 55' 505+76.1 — (146) MARTIN A. MEYER, SL-3, V-16 P-20

30' 506+75.3 / 55' 506+75.9 — (147) WILLIAM J. JR. & DOROTHY M NORRIS, Parcel-4

30' 507+75.3 / 55' 507+75.9 — (148) ROMAN D. & MARIE HASKINS, Parcel-3

30' 508+75.3 / 55' 508+75.9 — (149) JUSTIN A. & MILDRED UNDERWOOD, SL-2

30' 509+75.4 / 55' 509+75.7 — (150) WALTER L. & ROSE NICKEL, SL-1

(151) DONNA M. CAZE-AU
E.E. JOHNSON (LIFE ESTATE)

(132) LAVERNE D. & RUSSELL CARPENTER

500+74.8 — 501+74.9 — 502+74.9 — 503+74.7 — 504+74.7 — 505+74.9 — 506+74.7 — 507+74.5 — 508+74.6 — 509+75.0 — 513+08.5

NORTH EATON FARMS SUBDIVISION
V-16 P-20

LAVERNE D. & RUSSELL CARPENTER ET AL. (142)

GEORGE T. & HAZEL E. HARRISON (154)

KATE M. ROTHEL (155)

CURVE DATA
P.I. Sta. 522+43.03
Δ = 0°-56'-45" Lt.
D = 0°-12'
T = 236.46'
L = 472.92'
E = 0.08'
R = 28647.89'

EATON TWP. LOT 96 — 522+43.03 HAWKE RD. — COLUMBIA TWP. LOT 94

P.C. Sta. 520+06.57 — P.T. Sta. 524+79.49

516+94.4 — 520+06.57 — 524+79.49

55' 516+93.6 / 30 516+94.0

55' 520+06.57

100' 522+62.1 / 55' 522+42.5 / 20' 522+42.8 / 56' 522+62.5 / 55' 522+80 / R = 28592.89'

100' 522+22.1 / 55' 522+22.5 / 55' 522+10 / R = 28502.89'

R = 28702.89'

2 STY FR. RES.

1½ STY. BRK. RES.

1 STY FR. RES.

2 STY FR. RES.

3 STY FR. RES.

FR. BARN

FRAME BARN

Conc. Slab

Mill No.

CORN CRIB

SHED

6" Tile

12" Boiler pipe

12" Oil Line

12" Gas Line

Regulator

Dotted lines

55' 520+06.57 / 30' 520+76.8 / 55 520+76.4 — (152) LAVERNE D. & RUSSELL CARPENTER

520+77.2 — 522+43.0

31' 522+43.2 / 55' 522+43.4 — (153) LAWRENCE W. & DOROTHY M. ARMBRUSTER

30.5' 523+46.5 / 55' 523+46.4 — (157) WILLIAM & EDNA KOLONICK

523+46.6 — (158) MINNIE A. KOLONICK

55' 524+79.49 / 30' 524+21.5 / 55' 524+21.4 — (159) ELIZABETH WAGNER

524+21.6 — 524+96.6

30' 524+96.5 / 55' 524+96.4 — (160) CONRAD ROSCHIVAL

LOT 95 — COLUMBIA TWP. — LOT 5 — EATON TWP.

EATON TWP. T-5N R-16W LOT-5 & 6

COLUMBIA TWP. T-5N R-15W LOT-95 & 96

5-28-1958
10-14-1957

LOR 82 (4.79 - 12.47) 11/16 R/W

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

142/148

LOR- 82 -(4.79 - 12.47)

RIGHT OF WAY PLANS

12/16

KATE M. ROTHEL

155

CHARLES L. + KATHRYN H. JOHNSON

163

9" Gas Line

12" Oil Line

55' 531+00

GAS LINE

METER

10" CIP

531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546

S. 85°-26'-45" E

12" RCP

30' 532+54.5

55' 532+54.7

6" Pipe

30' 536+49.9

55' 536+49.8

1 STY FR RES

2 STY BR RES

30' 540+41.63

55' 541+41.65

55' 544+51.1

30' 544+51.7

12" C.M.P.

55' 546+00

160

161

162

CONRAD ROSCHAL

WILBUR D. HAWKE

ROY W. WALLWEBER & CLARA WALLWEBER (L.E.)

COLUMBIA TWP T-5N R-15W LOT 95 & 96

CHARLES L. + KATHRYN H. JOHNSON

163

164 OHIO EDISON CO.

156

BEN & KATE YORKAVITZ

COLUMBIA AIRPORT

See Special Agreement Covering Airport Runways

410'± TO EDGE OF RUNWAYS

EARL M. + MARY EDNA ROUGH

165

LOT #96

LOT #85

P/L 546+91.03

1 STY RES

GAR

60' 546+91.3

60' 546+92.03

60' 547+21.03

30' 547+21.03

55' 546+91.3

30' 546+91.1

55' 550+00

BARN

G S BARN

WELL

2 STY FR RES

12" CMP

G" Tile?

PROPOSED 55' R/W

EXISTING 30' R/W

546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561

S 85°-26'-45" E

S 85°-32'-15" E

2-8" Field Tile

30' 546+90.5

55' 546+92.03

55' 546+90.2

P/L 556+07.61

55' 556+07.61

30' 556+07.61

1 STY FR. RES

55' 556+50

100 556+00

30' 557+84.8

55' 557+84.6

2 STY FR. RES

55' 556+00

MILK HOUSE

CHICKEN HOUSE

G" Tile

G

SHED

55 561+47.0

3 561.18

P/L 561+41.5

P/L 557+85.1

LOT #95

LOT #86

546+91.03

Δ=0°-05'-30" (NO CURVE)

P.I. STA 546+92.03

162

166

166 X

166 X

167

RAY W. WALLWEBER (CLARA WALLWEBER-L.E.)

REUBEN & EVELYN M. WALKDEN

COLUMBIA TWP T-5N R-15W LOT-85 & 86

RICHARD R. + HELEN A. WALKDEN

5-28-1958

10-14-1957

LOR 82 (4.79-12.47) R/W 12/16

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

143
148

13
16

LOR 82 (4.79-12.47)
RIGHT OF WAY PLANS

CURVE DATA
PC = 570+86.28
PI = 573+30.03
PT = 575+73.78
Δ = 0°19'30" RT
D = 0°04'
T = 243.75'
L = 487.50'
E = 0.34'
R = 85943.67'

165 EARL M & MARY EDNA ROUGH

167 RICHARD R. & HELEN A. WALKDEN

168 REUBEN, EVELYN M. & RICHAND R. WALKDEN

171 LEON R. & DONNA C. RISING

172 SPITZER MOTERS INC

MARTHA TAYLOR, MARLENE ANN & JACK C. PETERSON

SUBLOT 26 SUBLOT 25

173

169 FRED PROBST

170 HENRY A. & DOROTHY E. FULKROAD

SUBLOT 44 SUBLOT 43

COLUMBIA TWP. T-5N R-15W LOT-85 & 86

RICHARD GEORGE & MARIAN CATHERINE KURMAN 174 SUBLOT 24

RUDOLPH KUBOFCIK 173

LOUIS & ROSE KURMAN 175 SUBLOT 23

DONALD J. & BETTY J. PRUSHA 176 SUBLOT 22

MARY B. & BENNIE ALLISON JOHNSON 177 SUBLOT 21

ELIZABETH & NED W. GRIFFITH 178 SUBLOT 20

BERNARD A. & FREDA T. BUNNER 179 SUBLOT 19

PAUL K. & HELEN J. FULKROAD 180 SUBLOT 18

CARY E. & EUNICE H. PFAFF 181 SUBLOT 17

HERBERT E. & MILDRED L. ISENHOUR 182 SUBLOT 16

ELMER J. & DOROTHY A. EURY 183 SUBLOT 15

ALFRED J. BRAAT 184 SUBLOT 14

ANN M. BRAAT 185 SUBLOT 13

JAMES F. BRAAT 186 SUBLOT 12

WILLIAM A. & ELIZABETH WAGNER 187 SUBLOT 11 SUBLOT 10

LOUISE J. & WM. R. WAGNER 188 SUBLOT 9

FRED PROBST 189 SUBLOT 8

FREDRICK A. & SARAH M. CASTLE 190 SUBLOT 7

SUBLOT 6 191 191A

FRED PROBST 169 HENRY A. & DOROTHY F. FULKROAD 170 SUBLOT 43

WARREN E. & MARJORIE A. TERRILL 192 SUBLOT 42

JOSEPH M. & MILDRED E. PAINE 193 SUBLOT 41

FRED PROBST 194 SUBLOT 40

FRED PROBST 195 SUBLOT 39

WILLIAM JAMES & ROBERTA NASH 196 SUBLOT 38

FRED PROBST 197 SUBLOT 37

FRED PROBST 198 SUBLOT 36

199 SUBLOT 35

200 SUBLOT 34

201 201A Block 1

E. LYDIA ROAD 60' R/W

FRED PROBST SUBDIVISION V.-17 R-19

COLUMBIA TWP T-5N R-15W LOT-75 & 76

5-28-1958
11-7-1957
10-14-1957

LOR 82 (4.79-12.47) R/W SHEET 13/16

← HAMMON SUBDIVISION No. 2 V-16 P-25A →

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

144 / 148

14 / 16

LOR-82 4.79
RIGHT OF WAY PLANS

FREDERICK A. + SARAH M. CASTLE

191

191 A

SUBLOT 5 / SUBLOT 6

2½ STY FR. RES.

55 590+82.6

30' 590+76

LIBRARY

HAMMON SUBDIVISION No. 1
V.-16 P.-13

Δ=0°-08'-45" RT.

PI. STA. 591+10.58

STATION RD.

591+33.3

206 A

30' 591+41

1½ STY C. BLK. SERV. STA + RES.

ICE HOUSE

206

LOT-6
DOUGLAS + ELIZABETH KEYSE

55' 593+02.2

30' 593+02.2

55' 595+26.6

30' 595+26.5

595+26.4

593+02.2 ± LOT LINE

WILLIAM W. + S. CHARLENE WOODCOCK

207

LOT-7

1½ STY F. RES

LOT-8

R.O. + DELLA BENNETT

208

LOT-9

597+43.6

55' 597+43.6

30' 597+43.5

30' 598+59.3

LOT 76

LOT 65

598+59.2

CLARA BENNETT PAYNE + GUY DOUGLAS PAYNE, JR.

209

209 X

55' 598+59.4

130' 602+22.6

130' 601+20

80' 601+20

80' 601+00

CREEK

210

STEPHANIE FORSYTHE

80' 602+22.3

30' 602+22.0

601+21.9

PINE SEEDLINGS

℄ Temporary Run-around

590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605

S 85°-04' E

145.7'

30' 591+24.5

55' 591+17.7

30' 590+62.9

202 A

202

TRE-MARCO CORPORATION

30' 592+70.2

55' 592+63.4

592+78.3

201 A

201

STATION RD.

590+71.1

591+32.6

FRED PROBST

203

FRED PROBST

30' 598+59.1

55' 598+59.0

598+59.2

LOT 75

LOT 66

FR. STAND 4" TILE

WELL 55' 600+70

2 STY F. RES

204

204 X

160' 600+70

PLUM

+44.7

160' 601+80

160' 601+32

55' 601+80

30' 601+35

55 601+30

205

205 X

EDWARD + HELEN HAYAS

RALPH B. + RUTH E. STEPP

COLUMBIA TWP T-5N R-15W LOT-75 & 76

LOT-65 & 66

SEPHANIE FORSYTHE

210

1 STY. BR. RES.

55 605+56.25

605+82.6

RUSSELL W. + VIOLA MILLER

211

55' 606+93.9

30' 606+94.0

1 STY. BR. RES.

55' 605+82.4

30' 605+82.5

606+94.1

FRANK H. & MARGARET B. VAN ARSDALE

212

CURVE DATA
PI = 607+18.75
Δ = 0°-13' LT
D = 0°-04'
T = 162.50'
L = 325.00'
E = 0.15'
R = 85,943.67'

½ STY. FR. RES.

R = 85,888.67'

FELIX & JULIA IMPICCINI

213

608+91.25

608+51.5

55' 608+51.5

30' 608+51.5

1 STY F. RES.

G

ROGER P. + JEAN V. SEMET

215

215 WA

1 STY F. RES

55' 610+40.4

30' 610+40.3

55' 612+70.3

30' 612+70.0

610+49.3

612+69.7

611+00

616+00

10" W.A.

FRANKLIN DELANO WILSON

216

55' 613+78.1

30' 613+77.8

613+77.5

HORACE C. & LUCY Q. DESSIE WILSON

217

1 STY. FR. RES

614+86.7

DAVID BAN ET AL

218

55 615+93.8

55' 614+86.3

30' 614+86.0

615+93.2

NETTIE E. MYERS

219

CURVE DATA
P.C. = 618+36.96
P.I. = 619+80.71
P.T. = 621+24.46
Δ = 0°-11'-30" RT
D = 0°-04'
T = 143.75'
L = 287.50'
E = 0.12'
R = 85943.67'

65' 615+93.9

30' 615+93.5

R = 86,008.67'

65 618+36.96

605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620

S 88°-04' E

S 85°-17' E

55' 608+56.25

2 STY FR. RES

30' 607+19.0

55' 607+19.3

607+18.7

R = 85,998.67'

55' 608+81.25

SHED

4" Tile

GRAINERY

143'

2 STY FR. RES

30' 612+40.6

55' 612+40.3

612+41.0

CONC BLK IMP. BLG.

CORN CRIB

2 STY F. RES

30' 617+13.9

55' 617+13.6

222 A

1 STY F. RES.

30' 618+13.9

55' 618+13.6

617+14.3

618+14.3

R = 85,888.67'

30' 619+85.0

55' 619+84.5

1 STY F. RES.

55' 618+36.96

619+85.5

4-7-1958
11-15-1957

205

EDWARD + HELEN HAYAS

220

EMERY + ELSIE F. TOMES

221

LEON R. + DONNA CLETZIER RISING

222

HELGA S. FORSMARK

GORDON L. & EVELYN R. FORSMARK

223

MARY S. PINCKNEY 5-28-1958
11-14-1957
10-14-1957

COLUMBIA TWP T-5N R-15W

LOT-65 & 66

LOR 82 (4.79-12.47) R/W 14/16

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

145
148

LOR 82 (4.79 - 12.47)
RIGHT OF WAY PLANS

15
16

219
NETTIE E. MYERS

65'
621+24.46

55'
624+00

R=86,008.67'

620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635

R=85,988.67'

55'
621+24.46

PT. 621+24.46

223
MARY S. PINCKNEY

2 STY F RES

102

102.3

30'
627+02.8
55'
627+02.4

224
HERMAN E. & GEORGINA PAULSON

30'
627+78.2
55'
627+77.8

225
WALLACE RUNDLE

S 85°-05'-30" E

MARVIN H. & VIRGINIA G. CALHOUN
226
RES
1415'

227
NETTIE E. MYERS

1 STY F RES

630+98
631+98

55'
630+98.6
30'
630+98.3

55'
631+98.6
30'
631+98.3

634+08

ACME GRANGE COLUMBIA TOWNSHIP

55'
634+08.6
30'
634+08.3

228

55' R/W

1½ STY F RES

G

COLUMBIA TWP. T-5N R-15W LOT-55 & 56

ACME GRANGE COLUMBIA TWP.
228

EDWARD P. MADOK V.F.W POST #3540
229

636+32.5
637+23.7

55'
636+33.5
30'
636+33.0

55
637+24.3
30'
637+24.0

OHIO EDISON SUB-STA

OHIO EDISON CO.
230

OHIO EDISON SUB-STATION

640+73.6

55'
640+74.2
30'
640+73.9

CLAIR F. HOWARD
231

642+87.4

55'
642+88.0
30
642+87.7

1½ STY. FR. RES

TRUSTEES OF COLUMBIA TOWNSHIP
232

superseded by LOR-82-7.34 (2003)

1 STY BRICK FIRE STATION

55'
648+00

635 636 637 638 639 640 641 642 643 644 645 646 647 648

S 85°-05'-30" E

55' R/W

30'
641+49.1
55'
641+48.8

641+49.4

225
WALLACE RUNDLE ETAL

233
GRANT & LEONA RUNDLE

1½ STY FR RES

30
643+41.7
55'
643+41.4

2 STY FR. RES

30'
643+51.7
55
643+51.2

643+42

ALLEN + ROBERTA EVELYN SMITH
643+52

234

235
WILLIAM & NORA INGERSOLL

641+25

2 STY FR. RES

30'
644+24.7
55
644+24.4

236
RAY T. & CALISTA HOWARD

645+88.9

30'
645+88.6
55'
645+88.3

237
ZELMA H. HITCHCOCK

2 STY FR. RES

COLUMBIA TWP. T-5N R-15W LOT-55 & 56

5-28-1958
2-20-1958
10-14-1957

LOR-82-(4.79-12.47) R/W 15/16

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

146/148

LOR 82 (4.79 - 12.47)
RIGHT OF WAY PLANS

16/16

TRUSTEES OF COLUMBIA TOWNSHIP
232
649+50.3 ℄
HERBERT A. & LORENA P. GARMON
240
649+16.3 ℄
TRUSTEES OF THE FIRST BAPTIST CHURCH OF COLUMBIA TOWNSHIP
241
COLUMBIA WEST RIVER ROAD
LOT 56
LOT 45
650+49.70
242
METHODIST EPISCOPAL PARSONAGE
243
RUSSELL B. & MARGARET M. REISINGER
244
MARY ANN B. & JAMES A. MORAGHAN
245
WILLIAM E. MAYER
246

Entire sheet superseded by LOR-82-7.34 (2003)

E.X. CURVE DATA
P.I. Sta. 662+77.37 (LOR-82-12.37)
Δ - 0°46'30" Lt.
D - 0°20'
T - 116.25'
L - 232.50'
E - 0.40'
R - 17188.73'

A.C. Sta. 659+22.16 = A.C. Sta. 661+61.12 (LOR-82-12.37)

55' 648+51.1
45' 648+51.0
30' 648+50.7
2 STY. F. RES.
30' 648+16.7
45' 648+17
STONE-CHURCH
45' 650+50.1
30' 650+50
ACME GRANGE HALL
45' 651+40.1
28' 651+40
45' 652+28.5
26.1' 652+28.3
2 STY. FR. PARSONAGE
75' 653+12
45' 653+11.3
24.3' 653+10.8
2 STY. F. RES.
MAIL
653+26.2 ℄
75' 653+28
30' 653+27.2
24' 653+26.8
F. GAR.
1½ STY. FR. RES.
60' 656+11
38.9' 656+11
75' 659+22.16
60' 659+22.16
48.1' 659+22.16
1.P.

648 649 650 651 652 653 654 655 656 657 658 659

3/4" Casing for a Ex. 2" Water ℄ Gas
Ex. 1" Gas
S 84°-05'-30" E
100'
Ex. 2" Water ℄
MON. BOX
℄ Temporary Run-around ℄
18'
Water Line
WELL
Abanded
SIGN
FLAG POLE
CISTERN
238 A
COLUMBIA TWP. TRUSTEES
℄ 651+48.7
170.5
℄ 652+82.7
METH. CHURCH
35.1 652+83.2
55' 652+83.4
32' 651+49
55' 651+49.4
38.3' 654+23.2
58.3' 654+23.5
75' 656+00
47' 659+22.16
75' 659+22.16
30' 649+24.4
55' 649+16.6
BRICK HIGH SCHOOL
238
BOARD OF EDUCATION COLUMBIA TOWNSHIP
237
ZELMA H. HITCHCOCK
239
METHODIST EPISCOPAL CHURCH
SR-252
649+33.8 ℄ COLUMBIA WEST RIVER RD.
LOT-55
LOT-46

LOT-55 & 56 COLUMBIA TWP. T-5N R-15W LOT-45 & 46

7-28-1958
5-28-1958
11-15-1957
10-14-1957

CENTERLINE LOCATION PLAN

LOR - 82 - (4.79 - 12.47)

EATON TWP T-5N R-16W — COLUMBIA TWP T-5N R-15W

LORAIN COUNTY - OHIO

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

147 / 148

1 / 2

SCALE IN FEET: 0 100 500 1000 1500 2000

N

CURVE DATA
P.C. = 257+91.05
P.I. = 259+24.52
P.C.C. = 260+57.75
Δ = 6°-00' LT
D = 2°-15'
T = 133.47'
L = 266.70'
E = 3.49'
R = 2546.76'

CURVE DATA
P.C.C. = 260+57.75
P.I. = 261+43.50
P.C.C. = 262+29.14
Δ = 5°-08'-30" LT.
D = 3°-00'
T = 85.75'
L = 171.39'
E = 1.92'
R = 1909.86'

CURVE DATA
P.C.C. = 262+29.14
P.I. = 263+62.61
P.T. = 264+95.84
Δ = 6°-00' LT.
D = 2°-15'
T = 133.47'
L = 266.70'
E = 3.49'
R = 2546.76'

CURVE DATA
P.C. = 329+95.55
P.I. = 332+20.55
P.T. = 334+45.55
Δ = 0°-36' RT
D = 0°-08'
T = 225.00'
L = 450.00'
E = 0.60'
R = 42,971.83'

CURVE DATA
P.C. = 357+99.39
P.I. = 359+93.14
P.T. = 361+86.89
Δ = 0°-15'-30" RT
D = 0°-04'
T = 193.75'
L = 387.50'
E = 0.22'
R = 85,943.67'

CURVE DATA
P.C. = 367+38.65
P.I. = 370+63.65
P.T. = 373+88.65
Δ = 0°-26' RT
D = 0°-04'
T = 325.00'
L = 650.00'
E = 0.62'
R = 85,943.67'

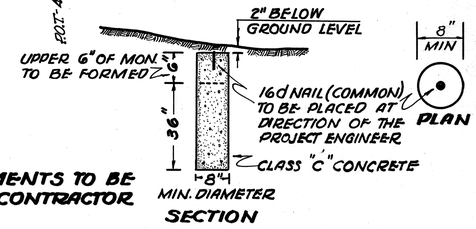
CURVE DATA
P.C. = 384+10.11
P.I. = 387+85.11
P.T. = 391+60.11
Δ = 0°-30' LT
D = 0°-04'
T = 375.00'
L = 750.00'
E = 0.82'
R = 85,943.67'

S 68°-13'-30" E
S 85°-22' E
S 85°-18' E
S 85°-25' E
S 84°-49' E
S 84°-55'-30" E
S 84°-44' E
S 84°-44-30" E
S 84°-14' E
S 84°-40' E
S 84°-55'-30" E

257+91.05 P.C.
260+57.75 P.C.C.
262+29.14 P.C.C.
264+95.84 P.T.
EASTWOOD ST. 273+84.7
282+69.75
LOT 95 / LOT 86
P.O.T. 295+00
LOT 86 / LOT 85
P.I. 275+19.15 Δ=0°-04' RT. NO CURVE
P.I. 305+15.52 Δ=0°-07' LT
LOT 75 / LOT 86
P.O.T. 313+00
P.O.T. 320+00
LOT 85 / LOT 76
DURKEE RD. 305+15.52
P.C. 329+95.55
LOT 76 / LOT 65
P.T. 334+45.55
332+20.5
P.I. 342+42.14 Δ=0°-06'-30" LT NO CURVE
P.O.T. 350+00
LOT 66 / LOT 55
GILES ROAD 370+63.65
P.C. 384+10.11
S.R. 76 387+85.11
LOT 55 / LOT 46
P.T. 391+60.11
LOT 46 / LOT 35
P.O.T. 400+00
P.O.T. 408+00
P.O.T. 424+00
P.O.T. 433+00
EATON LA. 431+52.07
LOT 45 / LOT 36
P.I. 415+74.30 Δ=0°-00'-30" LT.
P.C. 357+99.39
P.T. 361+86.89
LOT 65 / LOT 56
P.C. 367+38.65
P.T. 373+88.65
LOT 56 / LOT 45
S.R. 82 STA 387+85.11
S.R. 76 STA 418+18.85

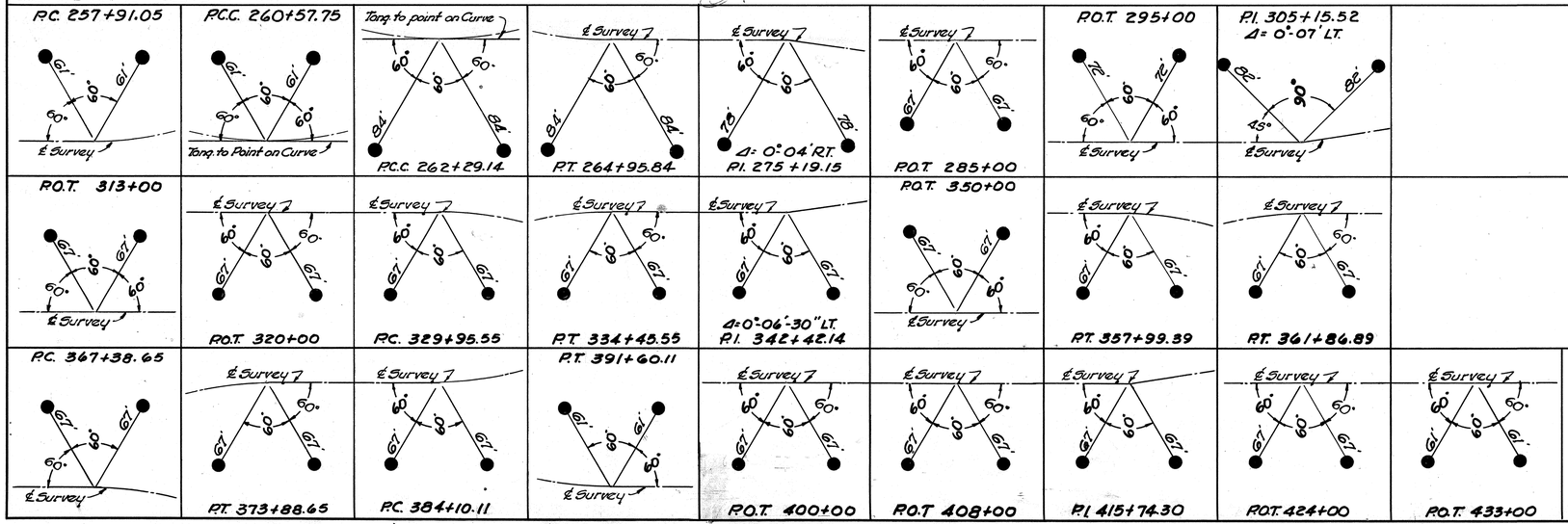
TOTAL No. REF. MON. - 110

DETAIL OF CENTERLINE REFERENCE MONUMENTS



NOTE: MONUMENTS TO BE SET BY CONTRACTOR

CENTERLINE REFERENCE MONUMENTS



Reading file

Plat Book 20
Pg 31 & 32
11-25-57

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

148
148

2
2

CENTERLINE LOCATION PLAN

LOR-82-(4.79-12.47)

EATON TWP T-5N R-16W — COLUMBIA TWP T-5N R-15W

LORAIN COUNTY - OHIO

0 100 500 1000 1500 2000

SCALE IN FEET

N

LOT 35 ISLAND ROAD 44.11 LOT 26

LOT 36 LOT 6 HAWKE RD LOT 96 LOT 5 EATON TWP COLUMBIA TWP LOT 95

LOT 25 LOT 15 LOT 26 LOT 16 REED ROAD LOT 85 LOT 96 LOT 95 LOT 86

LOT 15 LOT 6 RAILROAD

LOT 85 LOT 74 LOT 16 COWLEY RD LOT 5 LOT 75

LOT 56 COLUMBIA W. RIVER RD LOT 45 LOT 55 LOT 46

LOT 76 LOT 66 LOT 25 LOT 66

LYDIA RD

STATION RD

CREEK

PLUM

S 84°42'E

S 84°30'E

S 85°28'45"E

S 85°32'15"E

S 85°12'45"E

S 86°04'E

S 85°17'E

S 85°05'30"E

P.O.T. 449+00

P.O.T. 457+00

P.O.T. 466+00

P.O.T. 474+00

P.O.T. 484+00

P.O.T. 494+00

P.O.T. 503+00

P.O.T. 512+00

P.O.T. 521+00

P.O.T. 538+00

P.O.T. 554+00

P.O.T. 562+00

P.O.T. 583+00

P.O.T. 598+00

P.O.T. 628+00

P.O.T. 635+00

P.O.T. 642+00

P.O.T. 650+49.70

P.C. 484+22.98

P.T. 485+22.98

P.C. 520+06.57

P.T. 524+79.49

P.C. 570+86.28

P.C. 605+56.25

P.T. 608+81.25

P.C. 618+36.96

P.T. 621+24.46

P.C. 659+22.16

P.O.T. 531+00

P.O.T. 583+00

P.O.T. 512+00

P.O.T. 524+79.49

P.I. 441+03.06

P.I. 522+43.03

P.I. 546+92.03

P.I. 591+10.58

CURVE DATA
P.I. = 484+72.98
Δ = 0°12' RT.
D = 0°04'
T = 150.00'
L = 300.00'
E = 0.13'
R = 85,943.67'

CURVE DATA
P.I. = 522+43.03
Δ = 0°56'45" LT.
D = 0°12'
T = 236.46'
L = 472.92'
E = 0.98'
R = 28647.89'

CURVE DATA
P.I. = 607+18.75
Δ = 0°13' LT
D = 0°04'
T = 162.50'
L = 325.00'
E = 0.15'
R = 85943.67'

CURVE DATA
P.I. = 573+30.03
Δ = 0°19'30" RT
D = 0°04'
T = 243.75'
L = 487.50'
E = 0.34'
R = 85943.67'

CURVE DATA
P.I. = 619+80.71
Δ = 0°11'30" RT
D = 0°04'
T = 143.75'
L = 287.50'
E = 0.12'
R = 85,943.67'

NEW YORK CENTRAL

P.C. 483+22.98

P.T. 485+22.98

P.C. 570+86.28

P.T. 575+78.78

P.C. 618+36.96

P.T. 621+24.46

P.O.T. 628+00

P.O.T. 635+00

P.O.T. 642+00

P.C. 659+22.16

P.O.T. 650+49.70

Ex. MON. BOX

EXIST. CURVE DATA
P.I. 662+77.37 (LOR-82-12.37)
Δ = 0°46'30" LT
D = 0°20'
T = 116.25'
L = 232.50'
E = 0.40'
R = 17188.75'

(LOR 82-(4.79-12.47)
P.C. 659+22.16-BACK=
P.C. 661+61.12-AHEAD
LOR 82-12.37

RECEIVED Sept. 25 1957
RECORDED Sept. 25 1957
PLAT BOOK 20 PAGE 31+32
FEE: $15.00 PAID
Lester B. Mitchell
LORAIN CO. RECORDER

I HEREBY CERTIFY THAT THE ACCOMPANYING PLAT IS A TRUE DELINEATION OF A SURVEY MADE BY THE DEP'T OF HIGHWAYS, STATE OF OHIO
W R Hauserman
DIVISION ENGINEER
DIV. #3 P.E. No. 8072

532419

CENTERLINE REFERENCE MONUMENTS

P.I. 441+03.06 — 75', 75', 90°, 45°, ℄ Survey

P.O.T. 449+00 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.O.T. 457+00 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.O.T. 466+00 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.O.T. 474+00 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.C. 483+22.98 — 60°, 60', 60', ℄ Survey

P.T. 485+22.98 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.O.T. 484+00 — 60°, 60°, 60°, 30', 30', ℄ Survey

P.O.T. 494+00 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.O.T. 503+00 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.O.T. 512+00 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.C. 520+06.57 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.T. 524+79.49 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.O.T. 531+00 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.O.T. 538+00 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.I. 546+92.03 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.O.T. 554+00 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.O.T. 562+00 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.C. 570+86.28 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.T. 575+78.78 — 60°, 60', 60', ℄ Survey

P.O.T. 583+00 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.I. 591+10.58 — 60°, 60°, 60°, ℄ Survey

P.O.T. 598+00 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.C. 605+56.25 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.T. 608+81.25 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.C. 618+36.96 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.T. 621+24.46 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.O.T. 628+00 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.O.T. 635+00 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.O.T. 642+00 — 60°, 60°, 60°, 60', 60', ℄ Survey

P.O.T. 650+49.70 — Ex. MON. BOX, ℄ Survey

P.C. 659+22.16 — 60°, 60°, 60°, 23', 23', ℄ Survey

LOCATION-PLAN LOR 82 (4.79-12.47) 2 OF 2

TE 54 A
100 10 55

LEGEND FOR PROJECT-AVERAGE RESULTS OF TESTS-187 SAMPLES TESTED

DESCRIPTION	H. R. B. CLASS	OHIO CLASS	% AGG.	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
Gravel or stone fragments	A-1-a(0)	A-1-a	72	7	12	6	3	NP	NP	12	2
Stone fragments with sand	A-1-b(0)	A-1-b	55	12	11	11	11	25	3	16	2
Coarse and fine sand	——	A-3a	5	21	46	21	7	NP	NP	16	4
Gravel and stone fragments with sand and silt.	A-2-4(0)	A-2-4	40	20	14	17	9	24	7	13	3
Sandy silt	A-4 (5)	A-4a	11	7	20	38	24	24	5	18	39
Silt	A-4 (8)	A-4b	5	4	11	55	25	24	4	19	7
Silt and clay	A-6 (9)	A-6a	9	6	12	37	36	31	13	20	77
Silty clay	A-6 (11)	A-6b	6	4	11	37	42	37	17	22	38
Clay	A-7-6(13)	A-7-6	4	3	8	38	47	44	23	27	15

Sod & Topsoil, TS=X'=approx. depth
Berm Material
Auger boring plotted to vertical scale only
Auger boring plan view
W—— Free water

NOTE: Figures beside boring indicate water content in per cent

● Water content nearly equal to or greater than liquid limit.
○ This A-4a soil will be rubbery and unstable at water contents which exceed the optimum.

Samples Tested
Lab. Nos. So.
57354 - 57369
57562 - 57656
57696 - 57771

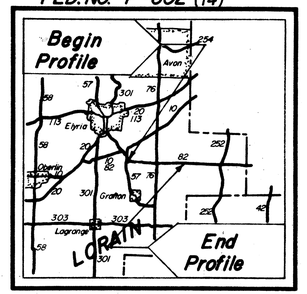
SOIL PROFILE
LORAIN COUNTY
LOR-82-(4.79-12.47)

1/5

STATE HIGHWAY TESTING AND RESEARCH LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

NOTE: THE INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS SECURED FOR THE USE OF THE STATE OF OHIO AND IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING THE CONSTRUCTION OF THE PROJECT.

FED. NO. F-602 (14)



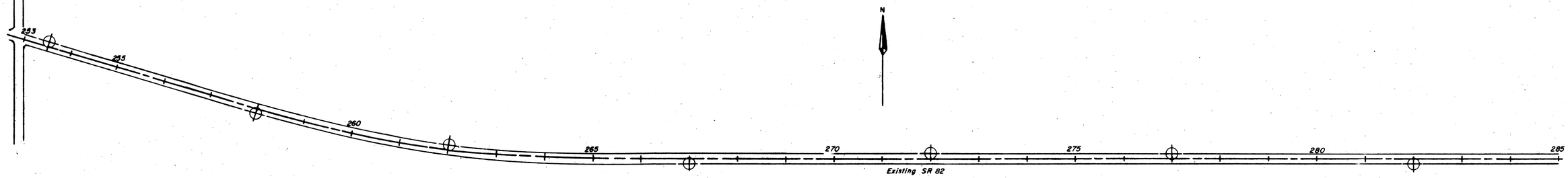
LOCATION MAP

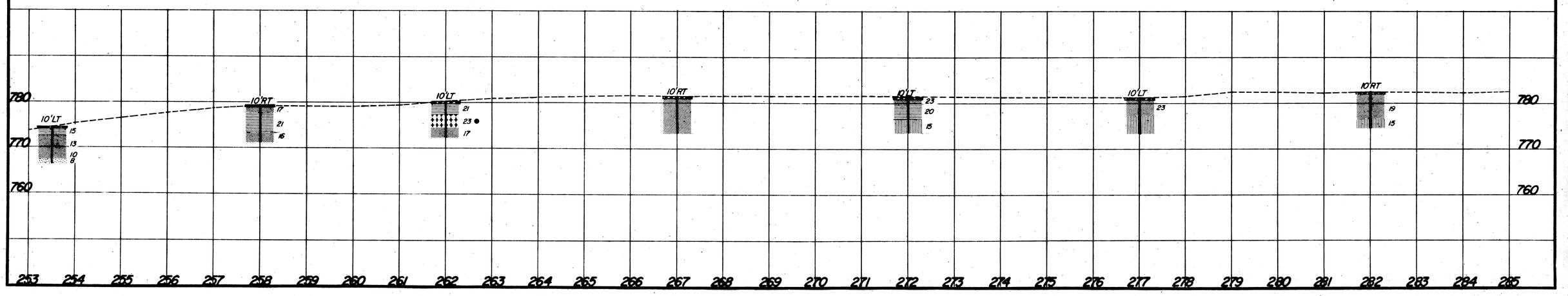
Recon - H.C.H. - 1-15-57
Drilling - C.G.-C.A.S. 1-24-57
Drafting - G.V.T. - 2-13-57

General Note
Bituminous pavement from Sta. 253+00 to Sta. 656+10 is in fair condition with few evident failures. Pavement worn and unsoven from heavy travel. Pavement from Sta. 656+10 to Sta. 662+00 fairly new 24' concrete in good condition.

SR 57

N





TE 54 B
125-6-54

SOIL PROFILE

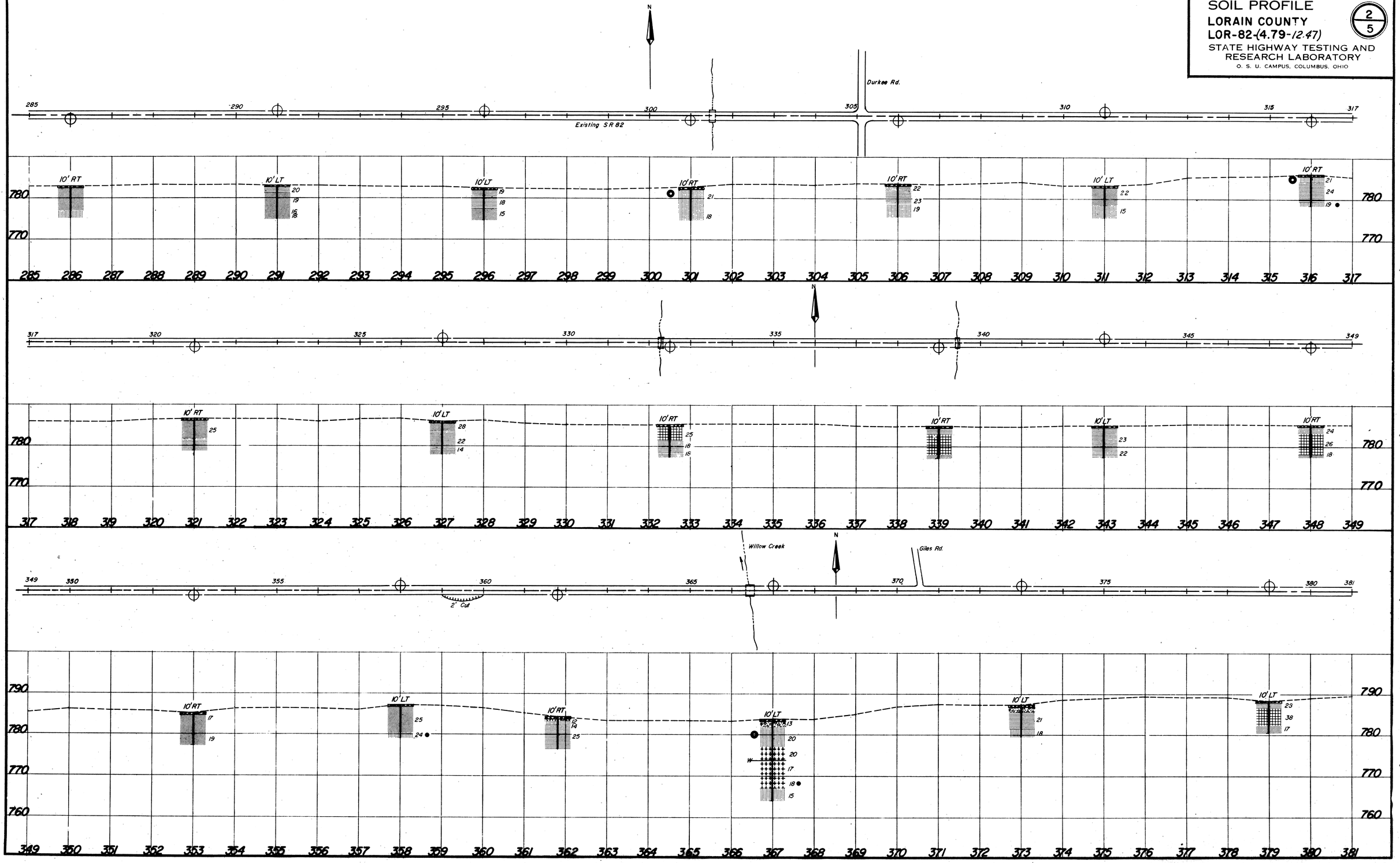
LORAIN COUNTY

LOR-82-(4.79-12.47)

STATE HIGHWAY TESTING AND RESEARCH LABORATORY

O. S. U. CAMPUS, COLUMBUS, OHIO

2/5



TE-54 B
125 6-56

SOIL PROFILE
LORAIN COUNTY
LOR-82-(4.79-12.47)

3/5

STATE HIGHWAY TESTING AND RESEARCH LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

TE 54-B
12-5-56

SOIL PROFILE

LORAIN COUNTY
LOR - 82-(4.79 - (2.47)
STATE HIGHWAY TESTING AND RESEARCH LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

4/5

TE-54 B
125-8-56

SOIL PROFILE

5/5

LORAIN COUNTY
LOR-82-(4.79-12.47)
STATE HIGHWAY TESTING AND RESEARCH LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

