STATE OF OHIO
DEPARTMENT OF HIGHWAYS
VERNON T'W'P.

S-1133(1)

88 BLACK 1-121

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(1)	POST WAR

1/121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07

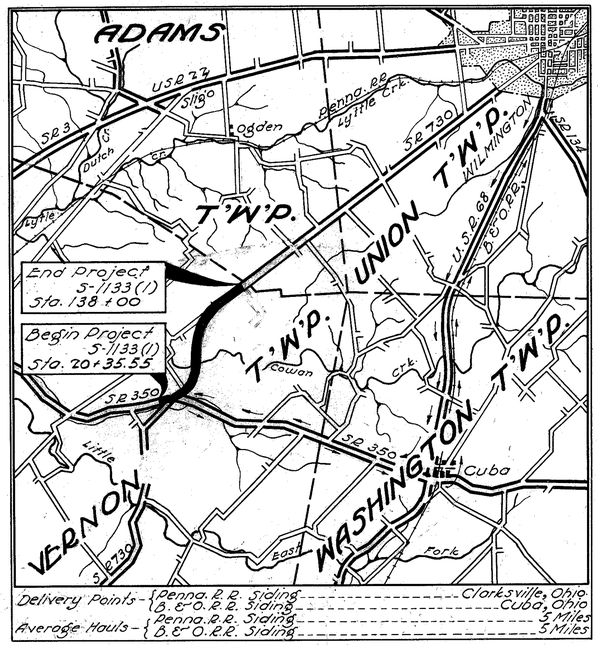
CLI-730-(3.98-4.14)
CLI-350-4.07
CLINTON CO.

~CONVENTIONAL SIGNS~

Township Line
City or Village Line
Center Line
Property Line (fenced) P/L
Property Line (not fenced) P/L
Fence
Railroad
Pole Line — Guy ø, Teleph. or Telegh ø, Power øø, Light ø
Guard Rail (existing)
Guard Rail (new)
Drain Pipe (existing)
Drain Pipe (new)
Trees (existing)
Trees (to be removed)

~INDEX OF SHEETS~

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Delivery Points — Penna. R.R. Siding — Clarksville, Ohio
B. & O. R.R. Siding — Cuba, Ohio
Average Hauls — Penna. R.R. Siding — 2 Miles
B. & O. R.R. Siding — 5 Miles

~LOCATION PLAN~

0 ½ 1 2 3 4
Scale in Miles

Portion to be improved
State Highways
Other Roads
Detours shown thus

The Standard Specifications of the State of Ohio, Department of Highways including changes and supplemental specifications listed in the proposal, shall govern this improvement.
The right of way for this improvement will be provided by the State of Ohio.
I hereby approve these plans and declare that the making of this improvement will require the closing to traffic of a portion of the highway as noted on Sheet 3 and that detours will be provided as indicated on the plans. Provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates.

Approved: J. S. Charlton
Date 4-7-52 Division Deputy Director.

Approved:
Date ____ Chief Engineer, Bureau of Maintenance.

Approved: Norman M. Dike
Date 10-7-52 Chief Engineer, Bureau of Planning & Programming.

Approved: Richard Orth
Date 10-3-52 Chief Engineer, Bureau of Bridges & Railroad Crossings.

Approved: W. P. [illegible]
Date 10-7-52 Chief Engineer, Bureau of Location & Design.

Approved: V. T. LeClaire
Date 10-7-52 First Assistant Director & Chief Engineer.

Approved: [illegible]
Date 10-7-52 Director of Highways.

CONSTRUCTION BUREAU
JUL 3 1956
GROUND PHOTOLAB

~LINE DATA~

LENGTH OF PROJECT

Begin Project 5-1133(1) Sta. 20+35.55
End Project 5-1133(1) Sta. 138+00.00
Net Length of Project ____ 11,764.45 Lin. Ft. or 2.228 Mi.

LENGTH OF WORK

Net Length of Project	11,764.45 Lin. Ft.
Add Approach (S.R. 730) Sta. 18+00 - Sta. 26+66.15	866.15 Lin. Ft.
Add Approach Sta. 138+00 - Sta. 141+00	300.00 Lin. Ft.
Add Approach Lt. Sta. 91+00 (Sta. 0+10 to Sta. 4+00)	390.00 Lin. Ft.
Net Length of Work	13,320.60 Lin. Ft. or 2.522 Mi.

File No.	
	Clinton County CLI-730-(3.98-4.14)
	Clinton County CLI-350-4.07
	Date of Letting
	Contract Nº

Supplemental Specifications		
5	5-28-'48	
31	6-13-'49	
T-171.19	Rev. 7-31-'50	

~SCALES~

Plan	1" = 50 Ft.
Profile ~ Horiz.	1" = 50 Ft.
Profile ~ Vert.	1" = 5 Ft.
Cross Sections	1" = 5 Ft.

*Accepted by B.P.R.

Supplemental Prints of Std. Constr. Dwg's.			
*I-12	1-25-'52	*I-8 C.B. Nº 7	5-1-'52
*I-14G	1-22-'52	I-15 Nº 1	3-1-'47
*T-35	5-16-'51	I-15 Nº 3	2-1-47
*R.I-1	5-16-'51	*G-8.07	5-1-'51
L-3	4-1-'50	A5-1-47, A5-2-47	7-27-'49
L-3-A	4-1-'50	CSB-1-47 Sheet 1 & 2	8-25-'49
S-27 P.C. 2	3-15-'48		
S-27 P.C. 3	2-20-'45		
I-1, 2, 3, 4 & E-5	2-20-'45		
*I-8 C.B. I-2-A & E-B	5-1-'52	L-1	4-1-'50
*I-8 C.B. 2-7-A & E-B	5-1-'52		
*I-8 C.B. 2-3 & E-2-4	5-1-'52		

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL:

DISTRICT ENGINEER ____ DATE

APPROVED:

DIVISION ENGINEER ____ DATE

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133 (1)	POST WAR

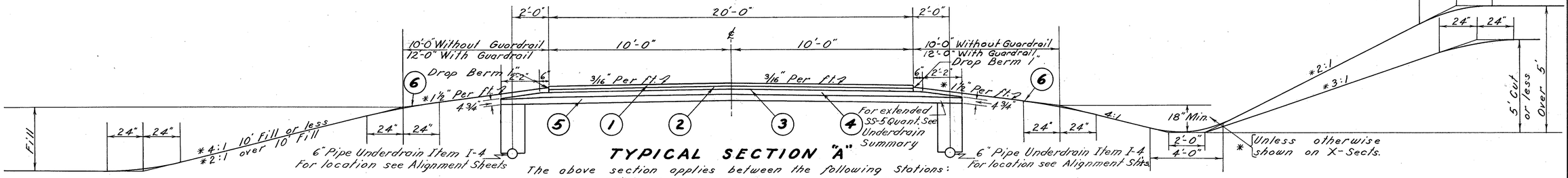
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CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07

TYPICAL SECTIONS

TYPE T-35 ON SS-5

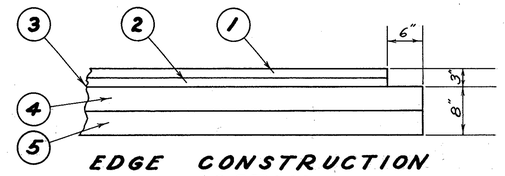
Scale 3/8"=1'-0"



TYPICAL SECTION "A"

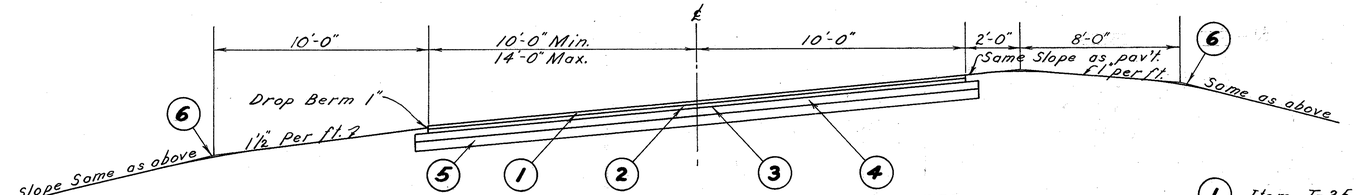
The above section applies between the following Stations:

Sta. 20+35.55 to Sta. 25+28.05	=	492.50	
Sta. 25+28.05 to Sta. 28+41.50	=		313.45 Lin. Ft. (Intersection)
Sta. 28+41.50 to Sta. 42+55.76	=	1414.26	
Sta. 58+00.57 to Sta. 61+08.72	=	308.15	
Sta. 74+78.72 to Sta. 83+32.31	=	853.59	
Sta. 96+54.48 to Sta. 138+00	=	4145.52	
	Totals	7214.02	313.45



EDGE CONSTRUCTION DETAIL

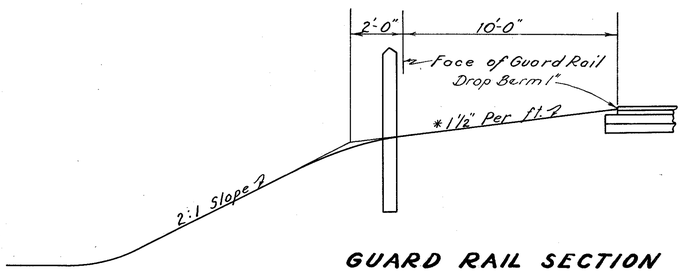
Scale 1"=1'-0"



SUPERELEVATED SECTION "B"

The above section applies between the following Stations:

Sta. 42+55.76 to Sta. 58+00.57	=	1544.81	
Sta. 61+08.72 to Sta. 68+53.89	=	745.17	
Sta. 68+53.89 to Sta. 70+71.77	=		217.88 Bridge & Appr.
Sta. 70+71.77 to Sta. 74+78.72	=	406.95	
Sta. 83+32.31 to Sta. 96+54.48	=	1322.17	
	Totals	4019.10	217.88



GUARD RAIL SECTION

(1) Item T-35 1½" Asphaltic Concrete Surface Course, Type "A"

(2) Item B-35 1½" Asphaltic Concrete Leveling Course.

(3) Item T-30 Bituminous Prime Coat using 0.50 gal. bituminous material Section M-5.3, MC-0 or MC-1, per sq. yd. (including sand cover @ 2 to 5 Lbs. per sq. yd. of Pavement)

(4) Item SS-5 4" Classified Embankment Material using crusher-run limestone Section M-3.1 or Section M-3.3. Grading for this Item shall be as follows:

Sieve	Percent Passing
2"	100
1"	70-100
3/8"	25-80
Nº 10	15-50
Nº 40	5-30
Nº 200	0-12

Initial compaction shall be obtained by the use of a tamping roller. If final compaction by use of a 3-E roller is not satisfactory, a pneumatic-tired roller shall be used for the final compaction.

(5) 4" Classified Embankment Grading "C"

(6) Item L-9 Seeding & Protecting, Type "A"

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CLI-350-4.07

NOTES

~ GENERAL ~

DESIGN SPEED:
Design Speed on this Project is 50 M.P.H.

FIELD OFFICE:
The contractor shall provide a suitable Field Office for the exclusive use of State Employees in accordance with Sec. S-0.01(b), having a minimum of 200 Sq. Ft. of floor space. The contractor shall have a telephone installed and maintained during construction of this project.

UTILITY ADJUSTMENT:
Any and all work required for Public or Private Utilities will be done by and at the expense of their respective owners, unless otherwise noted on these plans.

R/W MONUMENTS, FEDERAL PROJECT MARKERS & SECTION MARKERS:
Existing R/W Monuments, U.S.G.S. Bench Marks, Federal Project & Section Markers that will be removed by construction, shall be protected by the contractor as per Section G-8.09 of the Construction and Material Specifications, until they can be witnessed, referenced and reset by the Construction Field Crews.

EXISTING OR PROPOSED HOUSE DRAINS:
These plans contain provisions for disconnecting and plugging all drains which carry anything other than surface and natural waters. Any and all such drains, either existing or proposed and regardless of the condition of the effluent of private drainage, shall not be connected to the highway sewers, drain or ditch on this project, and if necessary, shall be plugged with concrete to prevent such connection.

SALVAGING OF MANHOLE, INLET & CATCH BASIN CASTINGS:
Castings on existing manholes, inlets & catch basins, which are not to be incorporated into the proposed work, shall be salvaged and stored on the R/W of the disposal of the State.

MAINTENANCE OF TRAFFIC: Traffic shall be maintained at all times on S.R. 350 and on S.R. 730 South of S.R. 350. Through traffic north of intersection of S.R. 730 and 350 will be detoured. However, traffic to and from the Lake Site shall be maintained at all times to the satisfaction of the Director, and the length of one(1) way traffic lanes shall be kept to a minimum.
Temporary Roadways, deemed necessary by the Engineer shall be constructed, maintained and removed by the contractor between the following Stations:

Sta. 20+35.55 To Sta. 30+00
Sta. 18+26.75 to Sta. 26+75 on Approach S.R. 730 (Rt.)
Sta. 0+10 to Sta. 7+00 on Approach S.R. 350 (Rt.)
Sta. 45+50 to Sta. 47+00

Traffic compacted surface course, Item T-10 and Calcium Chloride, Item M-10, estimated and paid for under Item T-10 & Item M-10, shall be applied on temporary roadways as directed and in the amounts requested by the Engineer (see general summary of quantities)
The hardness and soundness requirements of the Construction and Material Specifications shall be waived for both Items of T-10.
All of the above, except Traffic Compacted Surface Course, Item T-10 and Calcium Chloride, Item M-10 are included in the Lump Sum bid for maintaining traffic.
In addition to the above, Sec. G-4.05, maintenance of local traffic and Sec. G-8.07, barricades, danger and warning signs of the Construction & Material Specifications will be in force during the entire life of the contract.

EXCAVATION FOR ITEM I-17
Excavation for six(6) inches of I-17 Material used on Side Approaches, Mail Box Turnouts and Drives, has been included in Earthwork Quantities, where same is in "Cut." Where Side Approaches, Mail Box Turnouts and Drives are in "Fill", excavation for six(6) inches of I-17 Material shall be made by Contractor at his own expense, if he builds the Embankment up to Finished grade before placing I-17 Material.

~ ROADWAY ~

PLACING SOD:
Sod shall be placed so that the top of the sod coincides with the finished surface as shown on the Cross Sections. All earthwork necessary to accomplish the above is included in the Unit Price bid per Sq. Yd. of Sod.

FERTILIZING AREAS TO BE SEEDED OR SODDED:
All areas to be seeded, under Item L-9, or sodded under Item L-10, shall have commercial fertilizer (10-6-4 Mix) or any formula approved by the Director, applied at the rate of twenty (20) pounds per 1000 Sq. Ft.

LOCATION & SIZE OF PIPES:
The location, type, depth and size of all existing pipes are shown as near exact as the available information will permit. The State of Ohio will not be responsible for any variations found during construction.

SPECIAL DITCHES:
For special ditch grades, see Cross Sections.

REMOVAL (miscellaneous):
The removal and disposal of any existing pipes, pavement, sidewalks, headwalls, curbs, foundations, retaining walls or other masonry lying within or below the limits of Roadway Excavation, Item E-1 or Excavation for Structures, Item E-2 (and not specifically paid for under a separate item) are classified as excavation and are paid for as additional excavation under the excavation item of which they are a part.

SEEDING AND PROTECTING ROADWAY AREAS:
Quantities for seeding, Item L-9, are calculated for the soil areas between lines Ten(10) Ft. outside the work limits as shown on the Cross Sections or to the R/W line, if such line is less than ten feet from the work limits. Payment shall be made for the actual number of Sq. Yards of seeding and sodding as determined by the final measurements. All areas outside of these limits, where the vegetative growth has been injuriously disturbed or destroyed by the contractor, shall be restored and seeded in accordance with the provisions of Item L-9 by the contractor at his own expense. The mixture of seed outlined under Item L-9 shall be deleted and the following mixture substituted:

30% Kentucky Blue Grass 30% Meadow Fescue
15% Domestic Rye Grass 15% Red Top
10% White Dutch Clover

All legumes shall be inoculated.

REMOVAL OF TREES AND STUMPS:
Trees, in areas where the proposed contour of the ground differs from the existing contour, shall be removed or preserved as indicated on the plans by the following symbols:

Trees to be removed ----------
Trees to be preserved ----------

The number of trees to be removed, as indicated by the above symbol is approximate and the State of Ohio reserves the right to order the removal of additional trees, even though these trees are not indicated on the plans or are indicated to be preserved.
Payment for the removal of these additional trees is included in the Lump Sum bid for the removal of trees and stumps.

STONE UNDERDRAIN No 2, ITEM I-9:
No 2 Stone Underdrain has been estimated on this project at approx. 100 Ft. intervals where deep drainage is not provided. This quantity is to be used where and as directed by the Engineer.

DRIVES AND APPROACHES:
The location and grade of Drives, Flares, Mail Box Turnouts & Side Road Approaches may be adjusted, both as to location & amount, by the Engineer during construction.

ROUNDING OF CORNERS ON CROSS SECTIONS:
The rounded corners, shown on the Typical Sections, apply to all cross sections even though otherwise shown in these plans.

~ ROADWAY ~

EMBANKMENT:
In lieu of the requirements for full width construction under E-1.05, the embankment, where traffic is maintained, may be placed in part width construction.

CATCH BASINS AND PIPES:
Brick may be used in side walls of Catch Basins and Inlets.
Brick side walls, when used in place of concrete, shall be eight(8) inches in thickness.
The proposed elevations and locations of catch basins & pipes and the estimated lengths of pipes may be adjusted by the Engineer during construction.

LENGTH OF PIPE SPECIALS:
The number of lineal feet of pipe to be paid for shall be the length of the pipe line, less the assumed lengths of Specials (three feet, unless otherwise shown in these plans) regardless of the actual length of Pipe Special used.

GUARD RAIL REMOVAL:
The removal of any Guard Rail or Guard Rail Posts, lying within the Limits of Roadway Excavation or Embankment (and not specifically paid for under a separate item) is included in the Contract Unit price per Cubic Yard bid for Item E-1, Roadway Excavation. All resulting materials shall become the property of the Contractor and shall be disposed of by him at no extra cost to the State.

SILT:
Excavated material and borrow, of which the grain size of 50% or more is between 0.074 MM and 0.005 MM (SHTL), shall be placed of least three(3) feet below the pavement, when used in embankment.

EMBANKMENT OVER EXISTING PAVEMENT: When embankment is to be placed over an exist. pavit, the exist. pavit shall be removed if the Fill is one foot or less. For Fills between one foot and three feet in depth, the existing pavement shall be broken in portions not to exceed one square foot in surface area. When the Fill is over three feet in depth it will not be necessary to break the existing pavement.

The removal of non-rigid type pavements and all other operations necessary to conform to the above shall be included for payment in the price bid for Roadway Excavation Item E-1.

~ PAVEMENT ~

SUPERELEVATION OF CURVES:
Superelevation of curves shall be built without crown.
The crown shall be worked out of the pavement in accordance with the elevations shown in the Superelevation Tables.

ITEM I-17, SPECIAL SIDE APPROACHES, MAIL BOX TURNOUTS & BERM MATERIAL:
Special Side Approaches, Mail Box Turnouts and Berm Material, using Slag, Sec. M-3.7; Stone, Sec. M-3.3 or Gravel, Sec. M-3.11, except that in lieu of the requirement of Sec. M-3.11, the portion retained on a No 4 Sieve shall contain at least eighty (80) percent of fractured pieces. Grading for this Item shall be:

SIEVE	PERCENT PASSING
3/4"	100
1/2"	80-100
3/8"	50-80
No 10	40-60
No 40	5-30
No 200	0-12

The addition of screenings, Sec. M-2.7 or Sec. M-2.14, will be permitted, to enable the material to meet these grading requirements.
The Hardness and Soundness Requirements of the Construction and Material Specifications shall be waived on this material.
Initial Compaction shall be obtained by the use of a Tamping Roller. If Final Compaction, by the use of a "3-E" Roller is not satisfactory, a pneumatic tired roller shall be used for the final compaction.
The crushed stone, slag or gravel shall be placed in layers not to exceed six(6) inches compacted depth.

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
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CLINTON COUNTY
CLI. 730 - (3.98 - 4.14)
CLI. 350 - 4.07

PAVEMENT

Station	Side	Asphaltic Conc. Surface Course Item T-35 1½" Sq. Yd.	Asphaltic Conc. Surface Course Item T-35 2½" Sq. Yd.	Asphaltic Conc. Leveling Course Item 8-35 1½" Sq. Yd.	Classified Embankment Material Item SS-5: 4" Using Crusher Run Limestone Sq. Yd.	Classified Embankment Material Item SS-5: 2⅜" Aver. Using Crusher Run Limestone Sq. Yd.	Classified Embankment Material Item SS-5: 4" Grading "C" Sq. Yd.	Bituminous Prime Coat 0.50 gal. Per Sq. Yd. Item T-30 Sq. Yd.	Sealing Only Item E-8 Lin. Ft.	Concrete Curb Item I-12 Type 6 Lin. Ft.	6" Special Side Approaches Mail Box Turn Outs and Berm Material Item-I-17 Cu. Yd.	Pipe for Driveways Item I-1 8" Lin. Ft.	12" Lin. Ft.	18" Lin. Ft.	21" Lin. Ft.	Bituminous Tack Coat @ 0.10 gal/sq. Yd. Item T-30 Sq. Yd.	See Sheet Nº
Typical Sec. "A" 7214.02 Lin. Ft.		16031.2		16031.2	16832.7		16832.7	16832.7									2
Typical Sec. "B" 4019.10 Lin. Ft.		8931.3		8931.3	9377.9		9377.9	9377.9									2
Approaches																	
25+28.05 - 28+41.5	Lt & Rt.	3563.0		3563.0	3761.0		3761.0	3761.0	460.0	460.0	30.0	26	36				72
35+75.45	Lt.	145.0		145.0	145.0		145.0	145.0	63.0	63.0	129.8						83
47+69.	Rt.	310.0		310.0	318.0		318.0	318.0	58.0	58.0							85
91+00	Lt.	900.0		900.0	941.0		941.0	941.0	60.0	60.0	35.0			38	26		87
137+26.12	Rt.	345.0		345.0	354.0		354.0	354.0	63.0	63.0	2.0						90
Curve Widening																	
42+55.76 - 58+00.57	Lt.	498.9		498.9	498.9		498.9	498.9									92
61+08.72 - 74+78.72	Rt.	176.5		176.5	176.5		176.5	176.5									92
83+32.31 - 96+54.48	Rt.	214.0		214.0	214.0		214.0	214.0									92
From Pipe Underdrains						976.7	976.7										6
From Approach Slabs			83.3						56.9							83.3	4
To Drives											196.8	26	36	38	26		5
From Drives		824.0		824.0	850.0		850.0	850.0	127.0	127.0							5
Sub Totals		31938.9	83.3	31938.9	33469.0	976.7	34445.7	33469.0	887.9	831.0						83.3	
Conversions		1330.8	5.8	1330.8	3718.8	64.4	3827.3	167345 Gal.								8.3	
To General Summary		1336.6 Cu. Yds.		1330.8 Cu. Yds.	3783.2 Cu. Yds.		3827.3 Cu. Yds.		887.9	831.0						8.3 Gal.	7

CONCRETE APPROACH SLABS

Station	Reinforced Conc. Appr. Slabs Item F-7 Sq. Yd.	2½" Asph. Concrete Surface Course Item T-35 Sq. Yd.	Bituminous Tack Coat 0.10 Gal Per Sq. Yd. Item T-30 Sq. Yd.	Sealing Only Item E-8 Lin. Ft.
68+53.89 - 68+68.89	42.4	42.4	42.4	30.5
70+56.77 - 70+71.77	40.9	40.9	40.9	26.4
To Pav't Summary		83.3	83.3	56.9
To General Summary	83.3			

DRAINAGE

Station to Station	Side	Paved Bit. Coated Corr. Met. Pipe Sec. M-6.4 (d) for Storm Sewers Item I-2 18" Lin. Ft.	Pipe for Storm Sewers Item I-2 15" Lin. Ft.	12" Lin. Ft.	18" Lin. Ft.	Under Pav't. 12" Lin. Ft.	Under Pav't. 18" Lin. Ft.	Catch Basins Item I-8 22A Each	Nº7 Each	Pipe Removed & Disposed of Item E-12 4" Lin. Ft.	6" Lin. Ft.	8" Lin. Ft.	12" Lin. Ft.	Vertical 6" Perforated Corrugated Metal Pipe Sec. M-6.9(h) Item I-4 Lin. Ft.	Classified Emb. Material Grading "A" or "B" Item SS-5 Cu. Yd.	Removal of Exist. Structures Item S-24 Lump.	Reinf. Steel Item S-4 Lb.	Concrete for Structures Class "C" Item S-1 Cu. Yd.	See Sheet Nº
26+91 - 27+09	Lt.										25								9
27+09	Lt.																	0.1	9
27+96 - 28+41	Rt.										52								9
29+44 - 30+30	Rt.										86								9,10
30+30 - 30+97	Rt.										67								10
35+75.45	Lt.									64						Lump			10
98+75 - 99+10.5	Lt.	36						1											11
99+21	Rt. & Lt.													74	34				11,55
75+53 - 76+00	Lt.	46															24	1.0	13
112+85 - 113+75	Rt.				70		20												15
117+91 - 121+09	Lt.			135		180			1										15,16
118+38 - 119+14	Lt.											76							15
119+96 - 120+11	Lt.										15								15,16
120+51 - 120+91	Lt.										40								16
Appr. 25+28.05-28+41.5	Lt. & Rt.		21					1											72
Approach 91+00	Lt.												15			Lump			87
28+87-29+08	Rt.												20						9
From Drives												76	76			Lump			5
From Structures			129					2					78						6
To Structures																Lump	24	1.1	6
To General Summary		82	150	135	70	180	20	4	1	64	285	92	189	74	34				7

SEEDING CALCULATION

Grass Area between Seeding Limits Sta. 20+35.55 to Sta. 141+00 = 152419 Sq. Yd.

Deductions		
Approach & Pavement Area	=	32022.2 Sq. Yd.
Sod Area	=	5181.0 Sq. Yd.
Drives & Mail Box Turnouts Area	=	3545.0 Sq. Yd.
Paved Gutter Areas	=	236.0 Sq. Yd.
Riprap & Dumped Rock Fill Areas	=	385.0 Sq. Yd.
Walks & Steps Areas	=	20.0 Sq. Yd.

Total Area to be deducted = 41389 Sq. Yd.
Net Area to be Seeded Sta. 20+35.55 to Sta. 141+00 = 111030 Sq. Yd.
Commercial Fertilizer @ 20#/1000 Sq. Ft. ($\frac{111030 \times 9 \times 20}{1000 \times 2000}$) = 9.993 Tons

STANDARD DRIVES

Station	Side	Pipe for Driveways Item I-1 8" Lin. Ft.	Pipe for Driveways Item I-1 12" Lin. Ft.	Pipe for Driveways Item I-1 15" Lin. Ft.	Pipe for Driveways Item I-1 18" Lin. Ft.	Pipe for Driveways Item I-1 21" Lin. Ft.	6" Special Side Approaches Mail Box Turn outs & Berm Material Item I-17 Cu. Yd.	1½" Asphaltic Concrete Surf. Course Item F-35 Sq. Yd.	1½" Asphaltic Concrete Level Course Item B-95 Sq. Yd.	4" Classified Embankment (Limestone) Item SS-5 Sq. Yd.	Bituminous Prime Coat Item F-30 Sq. Yd.	Sealing Only Item E-8 Lin. Ft.	Pipe Removed & Disposed of Item E-12 8" Lin. Ft.	Pipe Removed & Disposed of Item E-12 12" Lin. Ft.	Removal of Exist. Headwalls Item S-24 Lump	Type 6 Concrete Curb Item I-12 Lin. Ft.	Roadway Excavation (carried to cross sections) Item E-1 Cu. Yd.	(Carried to cross sections) Embankment Cu. Yd.	4" Classified Embankment Material Grading "C" Item SS-5 Sq. Yd.	See Sheet Nº
20+85.55	Rt.		24				9.7													8
23+97.55	Rt.						To be Abandoned							18						8
24+00.6	Lt.		32				21.7							18				72		8
29+18	Lt.			22			13.9										14			9
30+02	Rt.	26					11.6										13			10
33+43	Lt.	22					20.1										39			10
36+23.7	Lt.						To be Abandoned							40						10
42+20	Lt.	22					20.1										11	14		10
47+69	Lt.				24		12.0											1		11
55+00	Lt.						12.0										14			11
55+00	Rt.						20.8										30			11
62+48	Rt.							193	193	197	197	62				62	84		197	12,91
62+48	Lt.						12.2										11			12
67+00	Rt.		58					631	631	653	653	65				65	95		653	12,91
79+56.8	Lt.		56				18.0										7			13
79+56.8	Rt.		24				16.7										48			13
84+34	Lt.						11.5										21			13
84+34	Rt.						24.9										33			13
95+75	Lt.						To be Abandoned													14
95+80.6	Rt.			26			9.2								Lump		7			14
103+38.5	Lt.			24			20.5							16			97			14
105+19.8	Lt.		24				19.4										91			15
112+72	Lt.		24				11.8											7		15
113+00	Rt.						15.7											18		15
118+25	Lt.						5.6										1	1		15
118+89.5	Lt.						6.1										3			15
119+05	Lt.						6.3										1	1		15
120+03	Lt.						8.0										14			16
121+04	Rt.		24				8.6										12			16
121+04	Lt.						8.0										7			16
123+59.2	Lt.						8.0										24			16
124+53	Rt.						9.0										36			16
133+00	Rt.				24		8.2										6			16
133+25.2	Lt.		22				8.0										8			16
129+50	Rt.		24				13.3										5			17
37+40	Lt.		24				21.4										15			10
24+90.86	Lt.						20.6											40		8
9 Mail Box Turnouts							54.5													
From Sidewalks & Steps			36			14	4.5													5
From Pavement		26	36		38	26	196.8													4
To Pavement								824	824	850	850	127				127			850	4
To Drainage													16	76	Lump					4
To Gen. Summary		26	478	72	86	40	688.7													7

See Sheet Nº
8
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GUARD RAIL

Station to Station	Side	Guard Rail Item I-15 Lin. Ft.					See Sheet Nº
Appr. 25+28.5 - 28+41.5	Lt. & Rt.	720.0					72
48+63 to 49+79.41	Lt.	112.0					11
48+28.50 to 49+37.73	Rt.	112.0					11
55+25 to 61+81	Rt.	656.0					11,12
55+25 to 62+15.66	Lt.	688.0					11,12
67+97.9 to 68+95.9	Rt.	48.0					12
67+95.5 to 68+75.5	Lt.	80.0					12
70+51.8 to 70+99.8	Rt.	48.0					12
70+72.8 to 71+68.8	Lt.	96.0					12
74+50 to 76+26	Lt.	176.0					12,13
75+25 to 77+01	Rt.	176.0					13
88+98.69 to 90+56.69	Lt.	208.0					13,14
Approach 91+00	Lt.	192.0					87
To Gen. Summary		3312.0					7

SIDEWALKS & STEPS

Station	Side	6" Special Side Apprs. Mail Box, Turnouts & Berm Material Item I-17 Cu. Yd.	4" Concrete Sidewalk Item F-13 Sq. Ft.	Standard Concrete Steps Item I-13 6" Riser 12" Tread Lin. Ft.	Standard Concrete Steps Item I-13 5" Riser 15" Tread Lin. Ft.	Sod Item L-10 Sq. Yd.	Pipe for Driveways Item I-1 12" Lin. Ft.	Pipe for Driveways Item I-1 21" Lin. Ft.	See Sheet Nº
25+87.05 (S.R. 350)	Lt.	2.3					14		8
Approach 91+00	Lt.		57					14	87
104+53.5	Lt.	1.4		64		5	22		14
124+23	Rt.	0.8			44	4			16
To Drives		4.5					36	14	5
To Erosion Control						9			6
To General Summary			57	64	44				7

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(1)	POST WAR

5 / 121

CLINTON COUNTY
CLI. 730 - (3.98 - 4.14)
CLI. 350 - 4.07

REMOVAL OF TREES & STUMPS
ITEM E-9
LUMP SUM

MAINTAINING TRAFFIC
ITEM SPECIAL
LUMP SUM

F-9 STONE UNDERDRAINS

F-9 Stone underdrains Nº2 placed as directed by the Engineer.
To General Summary 3000 Lin. Ft.

EXCAVATION & EMBANKMENT

Station to Station	Roadway Excavation Item E-1 Cu. Yds	Embankment Cu. Yds	Embankment + 15% Cu. Yds	See Sheet Nº
20+35.55 - 68+72	18047	27421	31534	38
70+55 - 90+07	15048	9401	10811	50
90+07 - 105+00	8775	10302	11847	58
105+00 - 120+00	12688	1503	1728	63
120+00 - 141+00	6755	838	964	69
Totals	61313	49465	56884	

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133 (1)	POST WAR

6
121

CLINTON COUNTY
CLI. 730-(3.98-4.14)
CLI. 350-4.07

STRUCTURES 20 FT. SPAN & UNDER

Structure Number	Station	See Sheet No	Excavation for Structures Item E-2	Excavation Channel Item E-3	Concrete for Structures Item S-1 Class "C"	Concrete for Structures Item S-1 Class "E"	Reinf. Steel Item S-4	Pipe for Roadway Culverts Item S-27 15"	18"	21"	24"	30"	33"	36"	78"	Sec. M-6.4(d) 15"	Sec. M-6.4(d) 24"	Pipe for Storm Sewers Item I-2 8"	15"	Paved Gutter Item I-14 Type A	Paved Gutter Item I-14 Type B (as per plan)	Paved Gutter Item I-14 Type 3	Standard Catch Basins Item I-8 No 1-2 A	No 2-2 A	No 2-3	No 2-4 Mod.	Pipe Specials Item I-5 Tee 78" x 15"	Tee 33" x 18"	T Branch 21" x 15"	T Branch 30" x 8"	T Branch 33" x 15"	T Branch 36" x 18"	Removal of Existing Structures Item S-24	Pipe Removed and Disposed of Item E-12 12"	Pipe Removed and Stored Item E-12 18"	Pipe Removed and Stored Item E-12 24"	Sodding Item L-10	6" Conc. Riprap Type "A" Item I-10
			Cu. Yd.		Cu. Yd.		Lb.	Lin. Ft.								Lin. Ft.		Lin. Ft.		Lin Ft.			Each				Each							Lump	Lin. Ft.		Lin. Ft.		Sq. Yd.	Sq. Yd.
1	19+16 (S.R.730)	94	39			0.4		77															1										Lump	39			14	
2	23+93 (S.R.730)	95,96	17	1073		11.6									355												1						Lump				37	
3	22+87.65 (S.R.350)	97	15			1.4					86																										41	23	
4	26+85.55 Rt.	98	16														46																				41	40	
5	26+87	98	63	3		0.9					114														1												43	32	
6	39+53.8	99	34	30	5.8		86							52				92																Lump				93	
7	48+90	100	55	29		2.9							95															1			2							81	
8	54+80	101	24	24		0.4		55											129				2															23	
9	67+65	102	12	2	1.0		23									66																						22	
10	71+20.5	103	66	154		2.7						90										33								2								75	
11	75+70	104,105 106	100	410	5.4		82							108																	1							118	197
12	90+82	107	125			1.8						176														1												32	
13	114+31	108	55	2		0.6					80									16	10				1								Lump				15	
14	117+97	109	16			0.6				77														1					1				Lump	15			15	
15	124+81	110	33			0.5			70															1									Lump				27	
16	131+74	111	10		1.0	0.4	23	59																									Lump	24			25	
17	137+26.12 (Rt.)	17																															Lump					
From Drainage.					1.1		24																										Lump					
To Erosion Control.																				16	10																672	
To Drainage.																			129					2										78				
To General Summary.			680	1727	14.3	24.2	238	191	70	77	280	266	95	160	355	66	46	92				33	3		2	1	1	1	1	2	2	1	Lump		43	82		197	

EROSION CONTROL

Station to Station	Side	Seeding & Protecting Type "A" Item L-9 Sq. Yd.	Sodding Item L-10 Sq. Yd.	Commercial Fertilizer (10-6-4 Mix) 20 Lbs per 1000 Sq. Ft. Item L-9 Ton	Concrete Paved Gutter Item I-14 Type "A" Lin. Ft.	Concrete Paved Gutter Item I-14 Type "B" Lin. Ft.	Dumped Rock Fill Item I-10 Cu. Yd.	8" Pipe Outlets for Underdrains Item I-4 Lin. Ft.	See Sheet No
Appr. 25+28.05 - 28+41.5	Lt & Rt.		438	.040	16	14			72
30+91	Rt.		15	.001				10	10
47+81 - 48+75	Lt.		90	.008					11
74+50 - 75+42	Lt.		45	.004		65			12,13
74+75 - 75+91	Rt.		46	.004		35			12,13
75+96 - 77+50	Rt.		98	.009		80			13
76+00 - 77+50	Lt.		150	.013					13
89+26 - 90+23	Lt.						94		13,14
88+00 - 91+50	Rt.		344	.030					13,14
Approach 91+00	Lt.		320	.029					87
91+50 - 103+30	Lt.		1197	.108					14
91+50 - 103+00	Rt.		1115	.100					14
113+75 - 114+17	Rt.		92	.004					15
39+00 - 40+50	Lt & Rt.		180	.016					10
48+73 - 49+50	Rt.		84	.008					11
71+54 - 72+50	Lt.		96	.009					12
112+85 - 114+36	Lt.		151	.014					15
Appr. 137+26.12	Rt.		81	.007					90
To Pipe Underdrains								10	6
From Sidewalks & Steps			9	.001					5
From Seeding Calc.		111030		9.993					4
From Structures			672	.060	16	10			6
To General Summary		111030	5181	10.458	32	264	94		7

PIPE UNDERDRAINS

Station to Station	Side	6" Underdrains Item I-4 Lin. Ft.	8" Pipe Outlets for Underdrains Item I-4 Lin. Ft.	Pipe Specials Item I-5 6"x45° Bend Each	Pipe Specials Item I-5	Classified Embankment Material Item SS-5 2 3/8" Aver. Using Crusher Run Limestone "C" Sq. Yd.	Classified Embankment Material Item SS-5 4" Grading Sq. Yd.
48+85 - 54+75	Rt.	592	10			142.3	142.3
49+01.5 - 54+75	Lt.	550	10			135.7	135.7
71+15 - 74+00	Rt.	275	10			68.7	68.7
71+28 - 74+00	Lt.	262	10			65.6	65.6
77+50 - 89+30	Lt.	1184	20	2		270.5	270.5
77+50 - 90+07	Rt.	1252	20	2		293.9	293.9
From Erosion Control			10				
To Pavement Summary						976.7	976.7
To General Summary		4115	90	4			

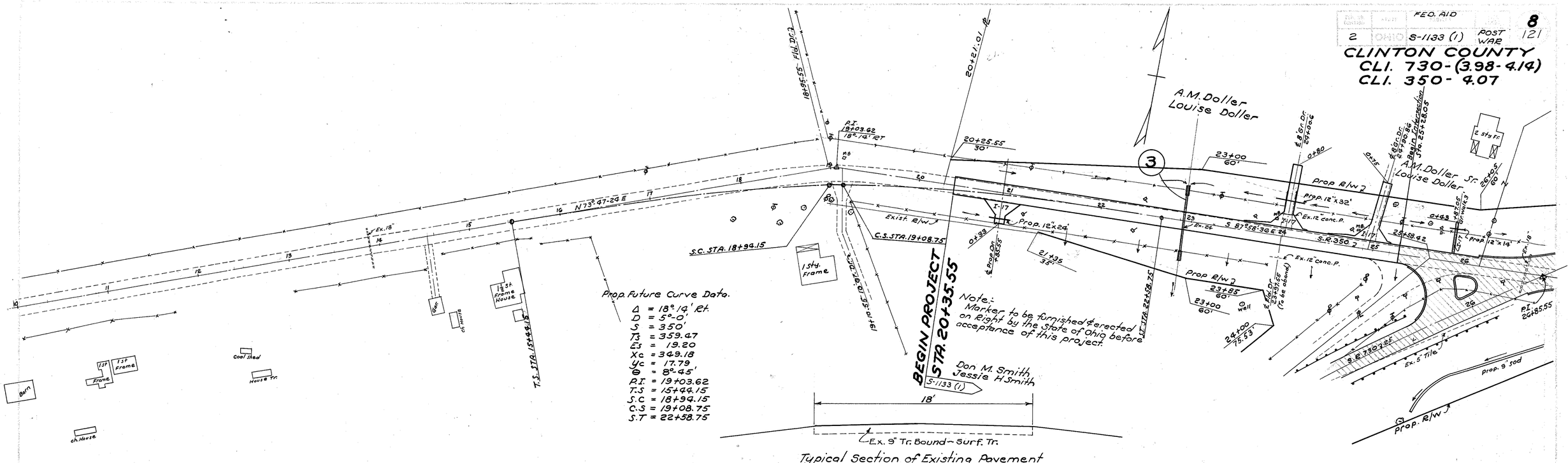
GENERAL SUMMARY

ITEM	QUANT.	UNIT	DESCRITION
			CONSTUCTION TYPE CODE Nº 6201
			ROADWAY
E-1	61313	Cu. Yd.	Roadway Excavation
E-8	888	Lin. Ft.	Sealing Only
E-9	Lump	Lump Sm	Removal of Trees and Stumps
E-11	278	M. Gals.	Water
E-12	630	Lin. Ft.	Pipe Removed and Disposed of, 15" and under
E-12	125	Lin. Ft.	Pipe Removed and Stored, Over 15"
I-13	57	Sq. Ft.	4" Concrete Sidewalk
I-13	64	Lin. Ft.	Concrete Steps (6" Risers, 12" Treads)
I-13	44	Lin. Ft.	Concrete Steps (5" Risers, 15" Treads)
I-15	3312	Lin. Ft.	Guard Rail Woven Wire Type, 3 Tapes, Standard Strength or Wire Cable Type, 3 Cables
I-17	689	Cu. Yd.	Side Approaches, Mail Box Turnouts and Berm Material, as per plan.
L-9	111030	Sq. Yd.	Seeding and Protecting Type "A" as per plan.
L-9	10.46	Ton	Commercial Fertilizer (10-6-4)
L-10	5181	Sq. Yd.	Sodding as per plan.
T-10	650	Cu. Yd.	Traffic Compacted Surface Course For Temporary Roadways as per plan.
T-10	350	Cu. Yd.	Traffic Compacted Surface Course For Temporary Roadways, using size Nº 2 Material as per plan.
M-10	20	Ton	Calcium Chloride For Temporary Roadways.
SS-5	34	Cu. Yd.	Classified Embankment Material Grading "A" or "B"
			DRAINAGE
E-2	680	Cu. Yd.	Excavation For Structures
E-3	1727	Cu. Yd.	Channel Excavation
I-1	26	Lin. Ft.	8" Pipe For Driveways
I-1	478	Lin. Ft.	12" Pipe For Driveways
I-1	72	Lin. Ft.	15" Pipe For Driveways
I-1	86	Lin. Ft.	18" Pipe For Driveways
I-1	90	Lin. Ft.	21" Pipe For Driveways
I-2	92	Lin. Ft.	8" Pipe For Storm Sewers
I-2	135	Lin. Ft.	12" Pipe For Storm Sewers
I-2	150	Lin. Ft.	15" Pipe For Storm Sewers
I-2	70	Lin. Ft.	18" Pipe For Storm Sewers
I-2	180	Lin. Ft.	12" Pipe For Storm Sewers Under Pavement
I-2	20	Lin. Ft.	18" Pipe For Storm Sewers Under Pavement
I-2	82	Lin. Ft.	18" Paved Bituminous Coated Corrugated Metal Pipe For Storm Sewers Sec. M-6.4(d)
I-4	74	Lin. Ft.	6" Helical Perforated Corr. Metal Pipe For Pipe Underdrains Sec. M-6.4(h).
I-4	4115	Lin. Ft.	6" Pipe Underdrains
I-4	90	Lin. Ft.	8" Pipe Outlets For Underdrains
I-5	4	Each	6" Pipe Specials for Underdrains
I-5	1	Each	21" Pipe Special For Roadway Culverts
I-5	2	Each	30" Pipe Specials For Roadway Culverts
I-5	3	Each	33" Pipe Specials For Roadway Culverts
I-5	1	Each	36" Pipe Special For Roadway Culverts
I-5	1	Each	78" Pipe Special For Roadway Culverts
I-8	3	Each	Standard Nº 1-2-A Catch Basins.
I-8	4	Each	Standard Nº 2-2-A Catch Basins
I-8	2	Each	Standard Nº 2-3 Catch Basins
I-8	1	Each	Standard Nº 2-4 Catch Basin Modified as per plan
I-8	1	Each	Standard Nº 7 Catch Basin
I-9	3000	Lin. Ft.	Stone Underdrains Nº 2
I-10	94	Cu. Yd.	Dumped Rock Fill
I-10	197	Sq. Yd.	6" Concrete Riprap, Type "A"
I-14	32	Lin. Ft.	Type "A" Paved Gutter
I-14	269	Lin. Ft.	Type "B" Paved Gutter
I-14	33	Lin. Ft.	Type 3 Paved Gutter
S-1	14.3	Cu. Yd.	Concrete For Structures Class "C"
S-1	24.2	Cu. Yd.	Concrete For Structures Class "E"
S-4	238	Lbs.	Reinforcing Steel
S-24	Lump	Lump Sum	Removal of Existing Structures
S-27	191	Lin. Ft.	15" Pipe For Roadway Culverts
S-27	70	Lin. Ft.	18" Pipe For Roadway Culverts
S-27	77	Lin. Ft.	21" Pipe For Roadway Culverts
S-27	280	Lin. Ft.	24" Pipe For Roadway Culverts
S-27	266	Lin. Ft.	30" Pipe For Roadway Culverts
S-27	95	Lin. Ft.	33" Pipe For Roadway Culverts
S-27	160	Lin. Ft.	36" Pipe For Roadway Culverts
S-27	355	Lin. Ft.	78" Pipe For Roadway Culverts
S-27	66	Lin. Ft.	15" Paved Bituminous Coated Corrugated Metal Pipe for Roadway Culverts Sec. M-6.4(d)
S-27	46	Lin. Ft.	24" Paved Bituminous Coated Corrugated Metal Pipe for Roadway Culverts Sec. M-6.4(d)
			PAVEMENT
SS-5	3784	Cu. Yd.	Classified Embankment Material, as per plan.
SS-5	3828	Cu. Yd.	Classified Embankment Material, Grading "C"
B-35	1331	Cu. Yd.	Asphaltic Concrete Leveling Course (85-100)
T-30	9	Gals.	Bituminous Tack Coat Sec. M-5.5 MS-2 or SS-1
T-30	16735	Gals.	Bituminous Prime Coat Sec. M-5.3 MC-0 or MC-1
T-35	1337	Cu. Yd.	Asphaltic Concrete Surface Course Type "A" (85-100).
I-7	84	Sq. Yd.	Reinforced Concrete Approach Slabs
I-12	831	Lin. Ft.	Type 6 Concrete Curb.
			STRUCTURES OVER 20 FT. SPAN
			For Quantities on Bridge Nº CN 730-49 See Sheet Nº 115
Special	Lump	Lump Sum	Maintaining Traffic as per plan.

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE, FUNCTION
2	OHIO	S-1133 (1)	POST WIRE

CLINTON COUNTY
CL/I-730-(398-4.14)
CL/I-350-4.07

CLINTON COUNTY
CLI. 730-(3.98-4.14)
CLI. 350- 4.07



Prop. Future Curve Data.

Δ	= 18°-12' Rt.
D	= 5°-0'
S	= 350'
Ts	= 359.47
Es	= 19.20
Xc	= 349.18
Yc	= 17.79
Θ	= 8°-45'
P.I.	= 19+03.62
T.S	= 15+44.15
S.C	= 18+94.15
C.S	= 19+08.75
S.T	= 22+58.75

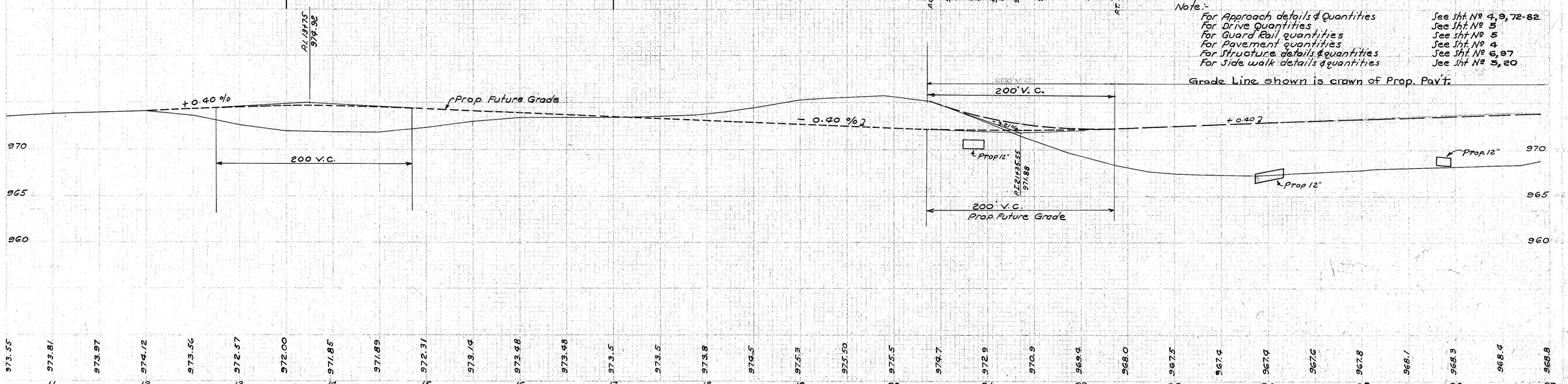
Note:
Marker to be furnished & erected on Right by the State of Ohio before acceptance of this project.

Typical Section of Existing Pavement Adjacent to Beginning of Project.

UTILITY OWNERSHIP

UTILITY	OWNER
Light & Power	Dayton Power & Light Co. 25 N. Main St Dayton Ohio.
Telephone	Ohio Consolidated Telephone Co. 53 E. Main St. Wilmington Ohio.

1½" Asph. Conc. Surf. Course.
1½" Asph. Conc. Leveling Course.
Bituminous Prime Coat
8" Classified Embankment



Note:-

For Approach details & Quantities	See sht Nº 4, 9, 72-82
For Drive Quantities	See sht Nº 5
For Guard Rail quantities	See sht Nº 5
For Pavement quantities	See sht Nº 4
For Structure details & quantities	See sht Nº 6, 97
For Side walk details & quantities	See sht Nº 5, 20

Grade Line shown is crown of Prop. Pav't.

STA. 11+00 To STA. 26+85.55

FED. AID. 2 S-1133 (1) POST WAR

9 121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07

P.O.T. 15+00
30.82'
35.35'
Tack in hub in Fence Line
Tack in hub in Fence Line

ALICE L. DUNHAM
ROGER E. DUNHAM

DON M. SMITH
JESSIE H. SMITH

C.J. RICHARDSON
LUCILLE RICHARDSON

LANG'S SUBD'N.

BEGIN INTERSECTION
A.M. STA. 25+28.05
LOUISE DOLLER, SR.

END INTERSECTION
A.M. STA. 28+41.5
Louise Doller

APPR. STA. 26+85.55

Prop. 8" Well
Foot bridge
Gate Valve
Prop. Water Line
Prop. Drive Lt.
Prop. Paved Gutter For details see Sht. No 93
Prop. Guard Rail
Prop. 9" Sod
Prop R/W
Prop. Drive Lt.
Prop. 12"x32'
Prop. 12"x14'
Prop. 12"x22'
Prop. 12"x26'
Prop. 15"
Prop. 8"
Prop. 12"
Ex. 12" Conc. P.
Ex. 18" Conc. Pipe
Ex. 24" Conc. P.
Ex. 6" Tile
Ex. 8" V.S.R.
Ex. 8" Tile
Ex. 12" Tile
Ex. 36" Tile
Ex. 6" Tile
Ex. 8" Tile
Ex. 6" Tile
Ex. 8" Tile
Ex. 12" Tile
Ex. 6" Tile
Ex. 8" Tile
Ex. 6" Tile
Ex. 8" Tile
Ex. 6" Tile
Ex. 8

		FED. AID		
2	OHIO	S-1133(1)	POST WAR	

10
121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07

STATE OF OHIO

LANG'S SUB'N.

HOWARD M. CROUSE
OLIVE A. CROUSE

MELVIN E. HUPMAN
PEARL HUPMAN

C.J. RICHARDSON
LUCILLE RICHARDSON

Conc. Blk. Gar.

1-Sty. Conc. Blk. Store

8" Drive #43

Air Hose

Conc. Pump Island

8" Ex. Gas Pr. 237.7 (or 16.66 Abandoned)

8" Prop. Dr. #40

Prop. 8" Conc.

Ex. 12" Corr. I. Pipe

Ex. 12" Corr. M.P. (to remain)

Prop. 12"x22'

Prop. 12"x24'

Prop. 18"x28'

Prop. Sod

Prop. 8" Pipe Outlet

Ex. 6" Tile

Prop. 50' R/W

Ex. R/W

Iron Pin

Sta. 0+82

30+42.99
53.22'

30+28.44
50'

42+55.76
50'

43+54.60
73.30'
Prop. R/W

Ex. 6" Tile

Prop. 8"

Prop. 9" Sod

Prop. 3½'

Prop. Sod

Ex. 6" Tile

Ex. 6" Tile

Prop. 12"x22'

Ex. 6" Tile

Sta. 39+00

Sta. 42+55.76

T.S. = Sta. 42+55.76

6" Ex. Dr. #30

Ex. R/W

Prop. 9" Sod

Prop. 3½'

Prop. 12"x22'

Prop. 50' R/W

39+78.45

N-61°-00'E

30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

+00 +44 +82 +50

+91 +02 R +92.20

40.6'

R.O.T.

Hub-Sta. 42+21.80
in Fence Line 1

42+20

6

BENCH MARK — Sta. 35+95
N.W. Cor. Conc. Base - Gulf Gas Sign
Elev. 979.07 — 135' Lt.

Grade Line shown is crown of Prop. Pav't.

Grade Line shown is Prop. Profile Grade

+0.40%

200' V.C.

P.I. = 42+00
El. = 981.20

980.80 980.89 980.95 980.99 981.00

980
975
970

Prop. 12"

Prop. 12"

Prop. 12"

Prop. 12"

974.9 975.9 976.5 977.2 977.6 977.8 977.8 977.9 977.5 977.6 977.9 977.8 977.8 977.4 976.4 974.6 974.2 974.7 976.0 977.7 978.4 978.5 978.6 979.0 979.0 979.1 979.3 979.2 979.3 979.3

+08.5 +43.8 +22 +60 +51.3 +75 +20.1 +55.76 +95.76 +35.76 +75.76 +15.76 +35.76 +25.76

30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

Note:-

For Approach details & quantities	See Sht. Nº 4, 83, 84
For Drainage quantities	See Sht. Nº 4
For Drive quantities	See Sht. Nº 5
For Erosion Control quantities	See Sht. Nº 6
For Pavement quantities	See Sht. Nº 4
For Structure details & quantities	See Sht. Nº 6, 99

STA. 30+00 - STA. 45+00

		FED AID		
2	0980	S-1133(1)	POST WAR	

11
121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07

- CURVE DATA -
Δ = 103°-02' Lt.
D = 9°-00'
Ls = 400'
Ts = 1013.29
Es = 403.19
Xc = 396.07
Yc = 41.59
θs = 18°-00'
Δs = 67°-02'
Lc = 744.81
P.I. Sta. 52+69.05
R = 636.62'

P.I. = 52+69.05
27.76'
28.58'
Tack in hub in fence Line
Tack in hub in fence Line

STATE OF OHIO

C.J. RICHARDSON
LUCILLE RICHARDSON

Prop. R/W

Prop. 2-2A.C.B.
Sta. 48+75 - 51.5 Lt.

Prop. 18" Cl. I
Prop. 18" Cl. II
Prop. 18"
Stone Mound
Prop. Channal Fill
Prop. 6" I-4
Prop. G/R
Prop. 33
Prop. 8' Drive
Prop. 30' Culvert
Prop. 24" Pipe
Prop. 24" Cl. II
24" Conc. Wall
Prop. 3-3A.C.B.
Prop. 6" I-4
Prop. 6" I-4
Prop. 6" I-4
Prop. 6" I-4
Prop. G/R
Prop. G/R
Prop. G/R

FED AID

2 | S-1133(1) | POST WAR | 12 | 121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07

~ CURVE DATA ~
Δ = 51°-0' Rt.
D = 5°-0'
S = 350'
Ts = 723.56'
Es = 128.60
Xc = 349.18
Yc = 177.79
Θs = 8°-45'
Δc = 33°-30'
Lc = 670.00

EXISTING STRUCTURE
None

PROPOSED STRUCTURE
TYPE: Continuous steel beams with reinf. conc. deck & reinf. conc. substructure.
SPANS: 56'-70'-56' c/c bearings.
ROADWAY: 26'-0" face to face of curbs with two 1'-9½" sidewalks.
LOADING: S-15-46
SKEW: 40°-15' L. Fwd.
SURF. COURSE: Bituminous.
APPR. SLABS: As shown.
ALIGNMENT: 5°-00' Curve-Rt.
SUPERELEV: 0.082 ft. per ft.

STATE OF OHIO

Bridge Sta 69+63.00

R= 1190.92'

R= 1100.92

Ex. Dt. @ Sta. 62+82.73 Rt to be excavated & backfilled & then Seeded.

Sta. 65+33 Rt - Remove Ex. Conc. Slab & backfill.

℄ Exist Spillway

Note: Contractor to brace end post of exist guard rail. Payment for same to be included in price bid for Prop. Guard Rail.

Prop. 12"x56'

Prop. 8' Type Outlet

Prop. 6" I-4

Prop. 9' Sod

Tack in hub

P.I. = 68+32.28

Nail & Tin 18" Elm

S.T. = 74+78.72

Nail & Tin 36" Elm

B.M.
"a" N.E. Cor. West side of Top of Wall of End Cone Spillway
Elev. 958.92
Sta. 62+
Rt. ℄

Top of Spillway

Grade Line shown is Prop. Profile Grade

Sta. 69+68.83

Bridge Limits

Sta. 70+56.77

0.00%

-0.90%

+2.04%

PI = 63+00
El. = 976.80

200' V.C.

300' V.C.

Prop 12"

Normal Water Edge ℄

Prop. 6" I-4 Lt.

Prop. 6" I-4 Rt.

967.84 Lt.

967.00 Rt.

965.13 Rt.

964.96 Lt.

PI = 73+00
El. = 970.80

Note:

For Drive quantities & Details	See Sht. Nº 5, 91
For Erosion control quantities	See Sht. Nº 6
For Guard Rail quantities	See Sht. Nº 5
For Pavement quantities	See Sht. Nº 4
For Structure details & quantities	See Sht. Nº 6, 102, 103, 112
For Pipe Underdrain quantities	See Sht. Nº 6
For Superelevation Tables	See Sht. Nº 92

STA. 60+00 - STA. 75+00

DIST.	COUNTY	FED. AID	SHEET NO.	TOTAL SHEETS
2	CLINTON	S-1133(1) POST WAR	13	121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07

— CURVE DATA —
Δ = 48° 36' 30" Rt.
D = 5° 0'
S = 350
Ts = 694.39
Es = 116.34
Xc = 349.18
Yc = 17.79
Θs = 8° 45'
Δc = 31° 06' 30"
Lc = 622.17

STATE OF OHIO

RAY BRANDENBURG
ELMA BRANDENBURG

MILETUS SPEELMAN

CHARLES C. LAMBCKE
ELLA M. LAMBCKE

EVA FLEMING

EVA FLEMING

EVA FLEMING

Prop. 6" I-4

Prop. Type "B" Hdwll.

Prop. 8" Pipe Outlet Sta. 77+50-26' Lt.

6"x45° Bend Sta. 77+69.5

6"x45° Bend Sta. 77+62.5

Prop. 8" Outlet Sta. 77+50-30.5' Rt.

Prop. Paved Gutter-Type "B"

Prop. 9' Sod

Ex. Conc. Wall

Prop. 6" I-4 Lt.

Prop. 6" I-4 Rt.

Prop. 12"x56' Lt.

Prop. 12"x24' Rt.

Prop. 8" Pipe Outlet Sta. 88+30-54' Lt.

6"x45° Bend Sta. 88+88

Prop. Dump Rock Fill

Sta. 88+00 Begin 9' Sod Ditch

6"x45° Bend Sta. 89+83

Sta. 89+60 to Sta. 90+07
9 Sq. Yds. Extra Sod on Rt.
See X Sees Sheet N° 50,51.

Prop. 8" Pipe Outlet Sta. 90+07-38.5' Rt.

Prop. 8"x3' conc. walk

Prop. 8"x3' Sod

Prop. 6"x3' Sod

Prop. 6" Pipe Underdrain

Prop. 6" I-4 (Lt. & Rt.)

Wooded Area

Locust (6" or less)

Gate

Corn Crib

End Approach Sta. 4+00

Embankment

Tack in hub

T.S. = 83+32.31

100.00'

90°

BENCH MARK Sta. 75+30
R.R. Spike in 8" Elm
Elev. 977.82 110' Rt.

BENCH MARK Sta. 83+60
R.R. Spike in 15" Locust
Elev. 987.28 70' Lt.

BENCH MARK Sta. 87+95
R.R. Spike in 12" Locust
Elev. 972.54 70' Lt.

Grade Line shown is crown of Prop. Pav't.

Grade Line shown is Prop. Profile Grade

+2.04%

-2.06%

F.L. 6" I-4 Lt. El. 977.00

F.L. 6" I-4 Rt. El. 976.00

F.L. Lt. & Rt. 978.80

F.L. El. (Rt.) 970.48

F.L. El. (Lt.) 962.50

Prop. 6" I-4 (Lt. & Rt.)

Prop. Type "B" Hdwll.

F.L. Paved Gutter Rt.

F.L. Paved Gutter-Rt.

F.L. Paved Gutter-Lt.

Prop. 18"

1100' V.C.

600' V.C.

Note:-

For Approach details & quantities	See Sht. N° 4, 87-89
For Drainage quantities	See Sht. N° 4
For Drive quantities	See Sht. N° 5
For Erosion control quantities	See Sht. N° 6
For Guard Rail quantities	See Sht. N° 5
For Pavement quantities	See Sht. N° 4
For Side walk & steps quantities	See Sht. N° 5
For Structure details & quantities	See Sht. N° 6, 104-107, 112
For Pipe Underdrain quantities	See Sht. N° 6
For Superelevation Tables	See Sht. N° 92

STA. 75+00 to STA. 90+00

FED. AID PROJ. NO.	STATE	FED. AID SEC. NO.		
2	IOWA	S-1133(1)	POST WAR	

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CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI.-350-4.07

CHARLES C. LAMBCKE
ELLA M. LAMBCKE

N.W. VANDERVORT

Barn

Chicken House

1½ Sty. Fr.

2 Sty. Fr.

91+06
145.80'
90+29.50
149.70'

0+59

Prop. 18"x38' RCP Flared End Sections

91+45
102.50'

91+50

0+38

Prop. 9' Sod

Ex. 12" CMP

Prop. 9' Sod

95+73.50
39'

95+73
45'

Prop. R/W

Prop. 9' Sod

103+25
50'

End Sod 90'

0+87

Prop. 15"x24'

Prop. 12"x22'

33' to E-17

E-17

E-17 MB

Ex. Stone Box & 12" V.S.P.

Well

Prop. 15"x26'

0+94

Prop. 9' Sod

Prop. R/W

96+54.48
50'

103+23.78
50'

Begin 3' Sod Ditch

N-57°-34'-30"E 10Ω

EVA FLEMING

Prop. Dump Rock Fill

Prop. 36"

Prop. Sod

End Sod
91+50

92+73
100

12

Tack in hub in fence Line

Tack in hub in fence Line

48°26'

29.93'

P.I. = 90+26.70

EVA FLEMING

LAUREN A. WYSONG
SIDONIA H. WYSONG

RAY BRANDENBURG
ELMA BRANDENBURG

— CURVE DATA —
Δ = 48°-36'-30" Rt.
D = 5°
Ls = 350
Ts = 694.39
Es = 116.34
Xc = 349.18
Yc = 17.79
Θs = 8°-45'
Δc = 31°06'-30"
Lc = 622.17'

Tack in hub in fence Line

Tack in hub in fence Line

44°32'

47.09'

S.T. = 96+54.48

BENCH MARK Sta. 90+00
S.E. Cor. Top Conc. Step @ Gate
Elev. 970.20 168' Lt.

BENCH MARK Sta. 94+50
R.R. Spike in 24" Maple
Elev. 985.79 110' Rt.

BENCH MARK Sta. 103+60
R.R. Spike in 30" Stump
Elev. 1018.65 50 Lt.

1015 1010 1005 1000 995 990 985 980 975 970 965

976.22 975.99 975.80 975.70 975.64 975.64 975.71 975.84 976.04 976.29 976.60 976.98 977.32 977.92 978.47 979.10 979.78 980.53 981.33 982.20 983.13

104.48

984.49 984.44 1000.36 1001.27 1002.15 1003.01 1003.84 1004.65 1005.44 1006.21 1006.96 1007.68 1008.38

1009.05 1009.71 1010.34 1010.95

1011.53 1012.10 1012.64 1013.16 1013.65 1014.12 1014.57 1015.00

1020

Grade Line shown is Prop. Profile Grade

Grade Line shown is crown of Prop. Pav't.

600' V.C.

1500' V.C.

+20.48

+3.84%

-2.063%

+3.84%

PT - 92+00
El. - 971.61

Prop. 15"x26'

Prop. 15"x24'

Prop. 15"x24'

961.2 961.2 959.1 960.5 962.6 965.6 965.6 964.2 966.4 965.5 964.1 963.4 963.1 963.1 964.1 966.1 968.7 974.6 975.5 976.3 976.9 978.5 979.6 980.6 981.5 983.0 984.8 986.4 987.8 989.95 992.65 994.65 996.75 998.6 1000.4 1002.29 1004.15 1005.86 1007.66 1009.37 1011.26 1013.42 1015.22 1017.29 1018.87 1020.3

+07 +21 +38 +75 +25 +32 +37 +78 +86 +98 +26 +33 +72 +86.7 +24.48 +39.48 +74.48 +109.48 +144.48 +179.48 +214.48 +249.48 +280.5 +306.8 +326.8 +338.8 +344.8 +338.8 +326.75 +306.6 +280.4 +249.29 +214.15 +179.86 +144.66 +109.37 +74.26 +38.5 +53.5

90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105

Note:-

For Approach details & quantities	See Sht. No. 4, 87-89
For Drive quantities	See Sht. No. 5
For Erosion control quantities	See Sht. No. 6
For Guard Rail quantities	See Sht. No. 5
For Pavement quantities	See Sht. No. 2
For Side walk & Steps details & quantities	See Sht. No. 5, 59
For Structure details & quantities.	See Sht. No. 6, 107
For Superelevation Tables	See Sht. No. 92

STA. 90+00 - STA. 105+00

			FED AID		15
2		S-1133 (1)	POST WAR		121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07

N.W. VANDERVORT

MARY L. ZURFACE

RAY BRANDENBURG
ELMA BRANDENBURG

P.O.T.-107+00
410.47'
35.19'
Tack in hub in Fence Line
Tack in hub in fence Line

BENCH MARK Sta. 112+75
E. End of Conc. Slab at well
Elev. 1015.51 40' Rt.

BENCH MARK Sta. 116+21.5
R.R. Spike in 15" Walnut
Elev. 1012.11 18' Lt.

Grade Line shown is crown of Prop. Pav't.

Note:-

For Drainage quantities	See Sht. No 4
For Drive quantities	See Sht. No 5
For Erosion control quantities & Details	See Sht. No 6, 93
For Pavement quantities	See Sht. No 4
For Structure details & quantities	See Sht. No 6, 108, 109

STA. 105+00 - STA. 120+00

		FED. AID			16
2		S-1133 (1)	POST WAR		121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07

MARJORIE L. ZURFACE

KELLY BASHFORD
MARIE BASHFORD

RITA TRICK

KELLEY HALE

Prop. 45' R/W

Prop. 50' R/W

N-57°-34'-30"E

1400' V.C.

Hedge Row

Pond

Pond

Pond

Ditch

Grade Line shown is crown of Prop. Pav't

+3.02%

-0.404%

P.I. = Sta. 131+00
El. = 1050.49

P.O.T. = 134+00

Tack in hub in fence Line

Tack in hub in fence Line

34.00'

34.93'

BENCH MARK Sta. 120+11
"O" S.E. Cor. of Conc. Porch
Elev. 1018.88 25' Lt.

BENCH MARK Sta. 124+15
R.R. Spike in root 18" Cedar
Elev. 1033.22 40' Rt.

Note:-

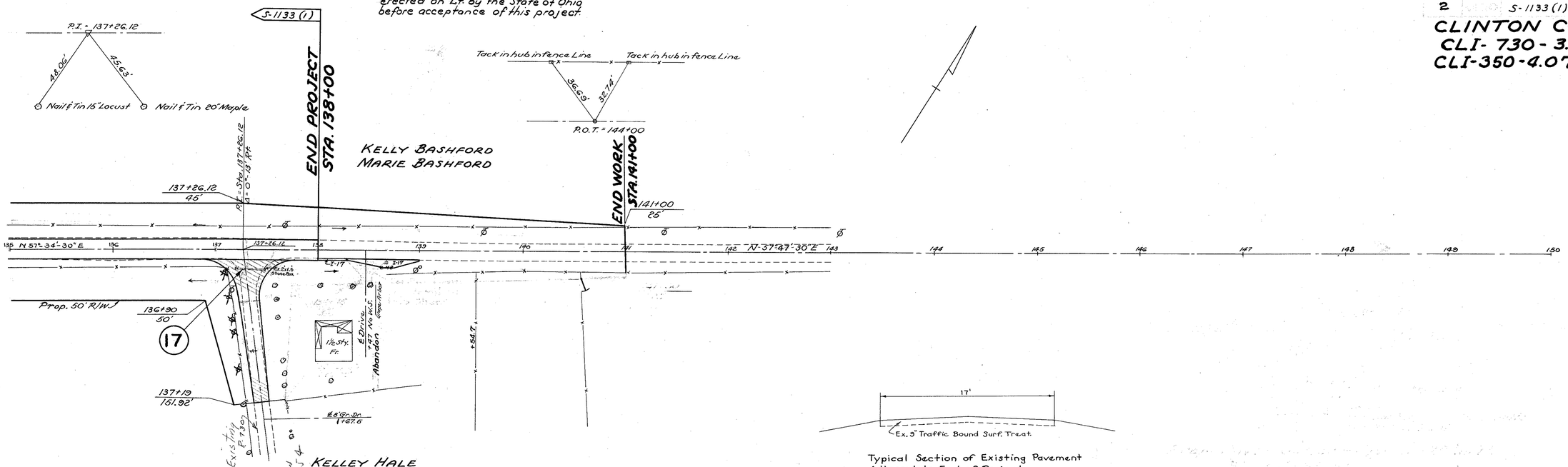
For Drainage quantities	See Sht. No 4
For Drive quantities	See Sht. No 5
For Pavement quantities	See Sht. No 4
For Structure quantities	See Sht. No 6, 110, 111.
For Sidewalk, steps-Quants & Details	See Sht. No 3, 65

STA 120+00 - STA 135+00

FED AID 17
2 S-1133 (1) POST WAR 121

CLINTON COUNTY
CLI-730-3.98-4.14)
CLI-350-4.07

Note
Marker to be furnished and erected on Lt. by the State of Ohio before acceptance of this project.



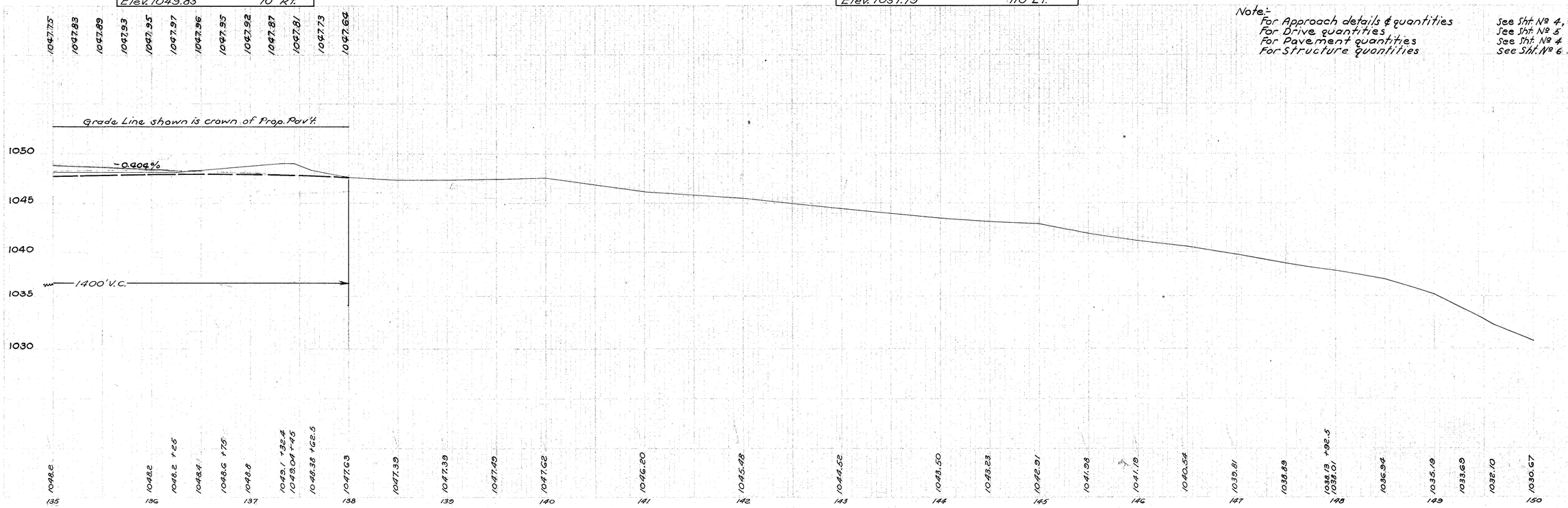
Typical Section of Existing Pavement Adjacent to End of Project.

BENCH MARK Sta. 137+20
"a" N.W. Cor. Top Conc. Step
Elev. 1049.83 70' Rt.

BENCH MARK Sta. 146+70
"a" on S.W. Cor. Conc. Platform of Barn
Elev. 1037.79 110' Lt.

Note:-

For Approach details & quantities	See Sht. No. 4, 90
For Drive quantities	See Sht. No. 5
For Pavement quantities	See Sht. No. 4
For Structure quantities	See Sht. No. 6

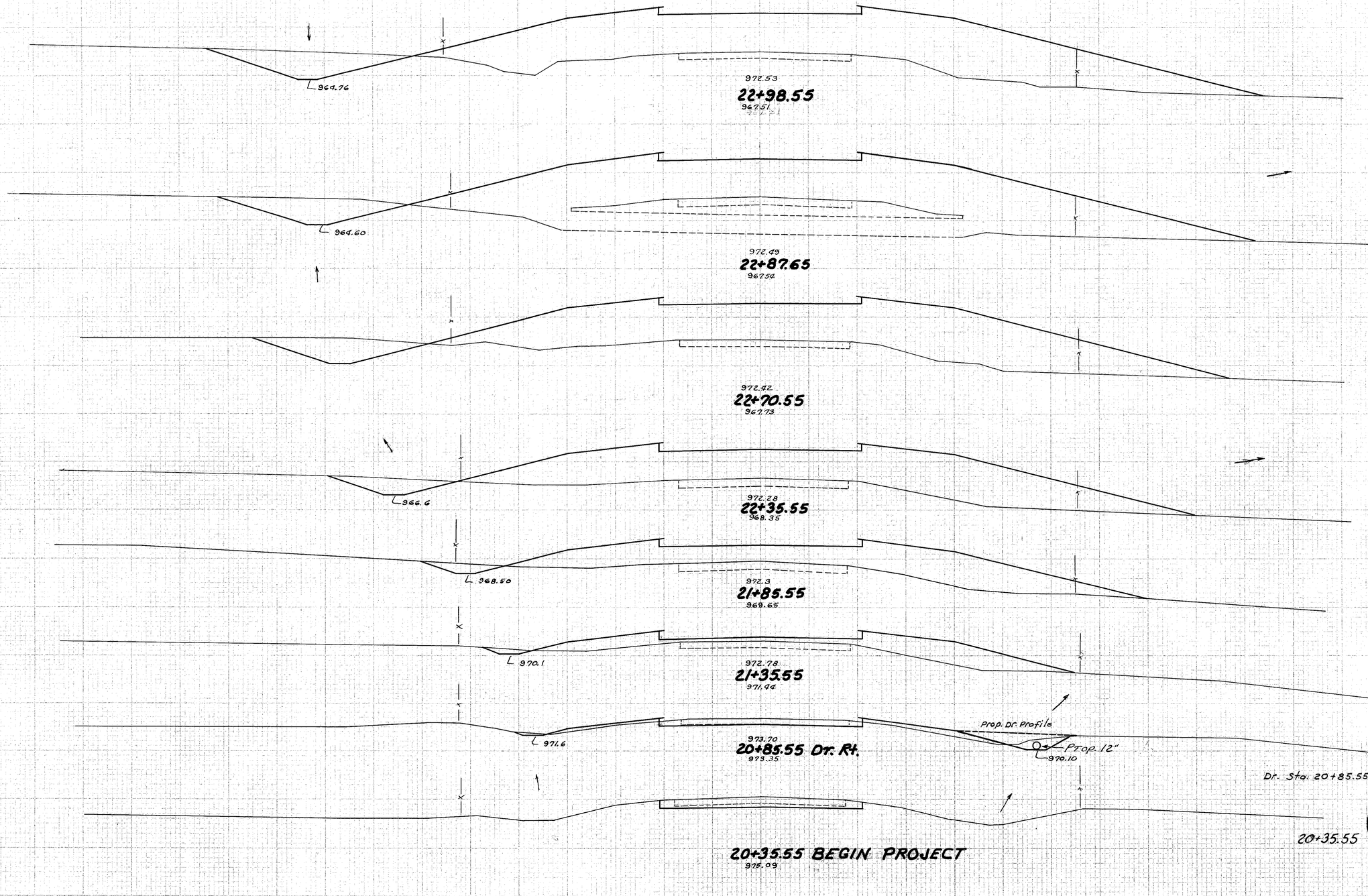


STA. 135+00 to STA. 150+00

FED. AID 3-1133(1) POST WAR

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CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07



END AREA		VOLUME	
CUT	FILL	CUT	FILL
36	334		
		14	137
32	341		
		20	199
30	286		
		29	329
14	222		
		19	331
6	136		
		8	170
3	48		
		21	56
20	13		
		0	0
		35	12
18	0		

STA 20+35.55 to STA 22+98.55

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07

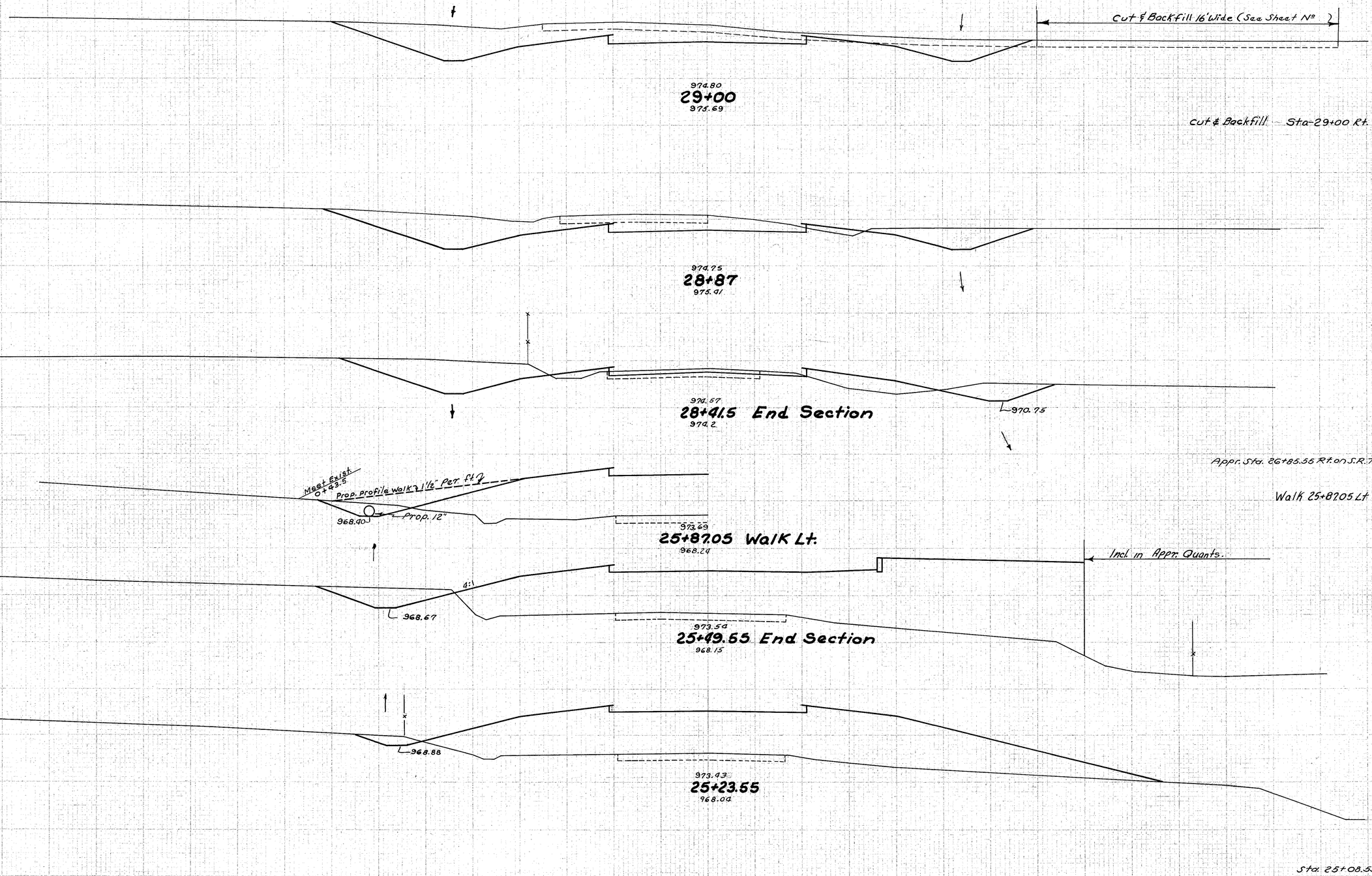
	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
25+08.55	2	313		
			1	137
24+97.55	0	358		
Dr. Sta. 24+90.86 Lt.				40
24+90.86 Dr. Lt.			1	164
24+85.55	3	382		
Dr. Sta. 24+00.65 Lt.				72
			22	1387
23+85.55	9	367		
			34	665
23+35.55	28	351	44	469
Sta. 22+98.65	36	334		

STA 23+35.55 to STA 25+08.55

FED. AID | S-1133(1) | POST WAR

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121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-407



END AREA		VOLUME	
CUT	FILL	CUT	FILL
131	0		
		15	15
		69	1
116	4		
		158	20
71	20		

FED. AID 2 S-1133(1) POST WAR

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CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
150	2		
		120	2
145	3		
135	5		
		14	
135	7		
		50	2
111	1		
		31	0
Sta. 29+00 131	0		

975.06
29+66
974.4

974.98
29+44
976.2

Dr Profile
Prop. 15"
971.8
974.8
29+18 DR. LT.
976.3

Drive Sta. 29+18 Lt.

974.87
29+18
976.3

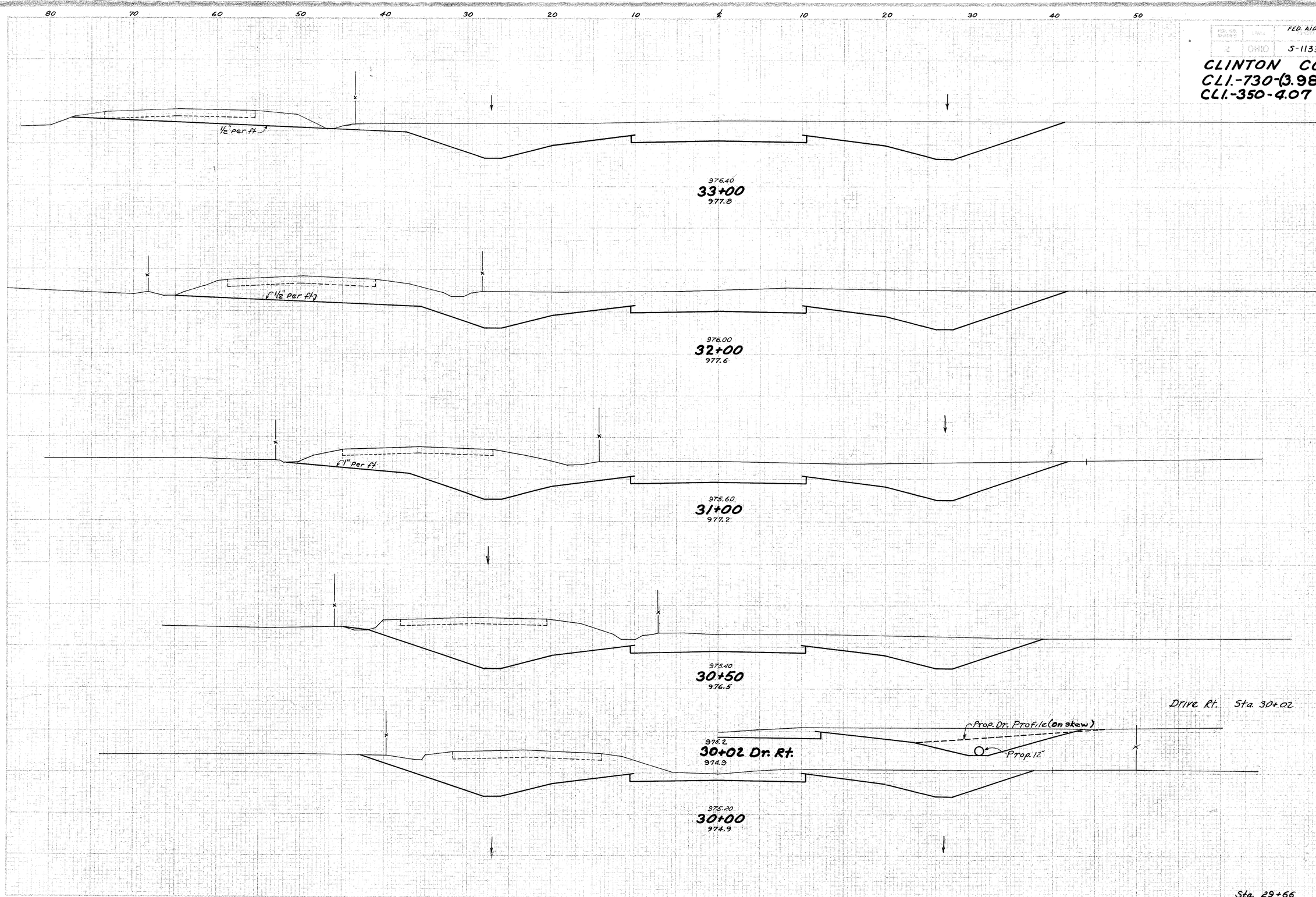
974.83
29+07
975.73

STA. 29+07 to STA. 29+66

FED. AID S-1133(1) POST WAR

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121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07



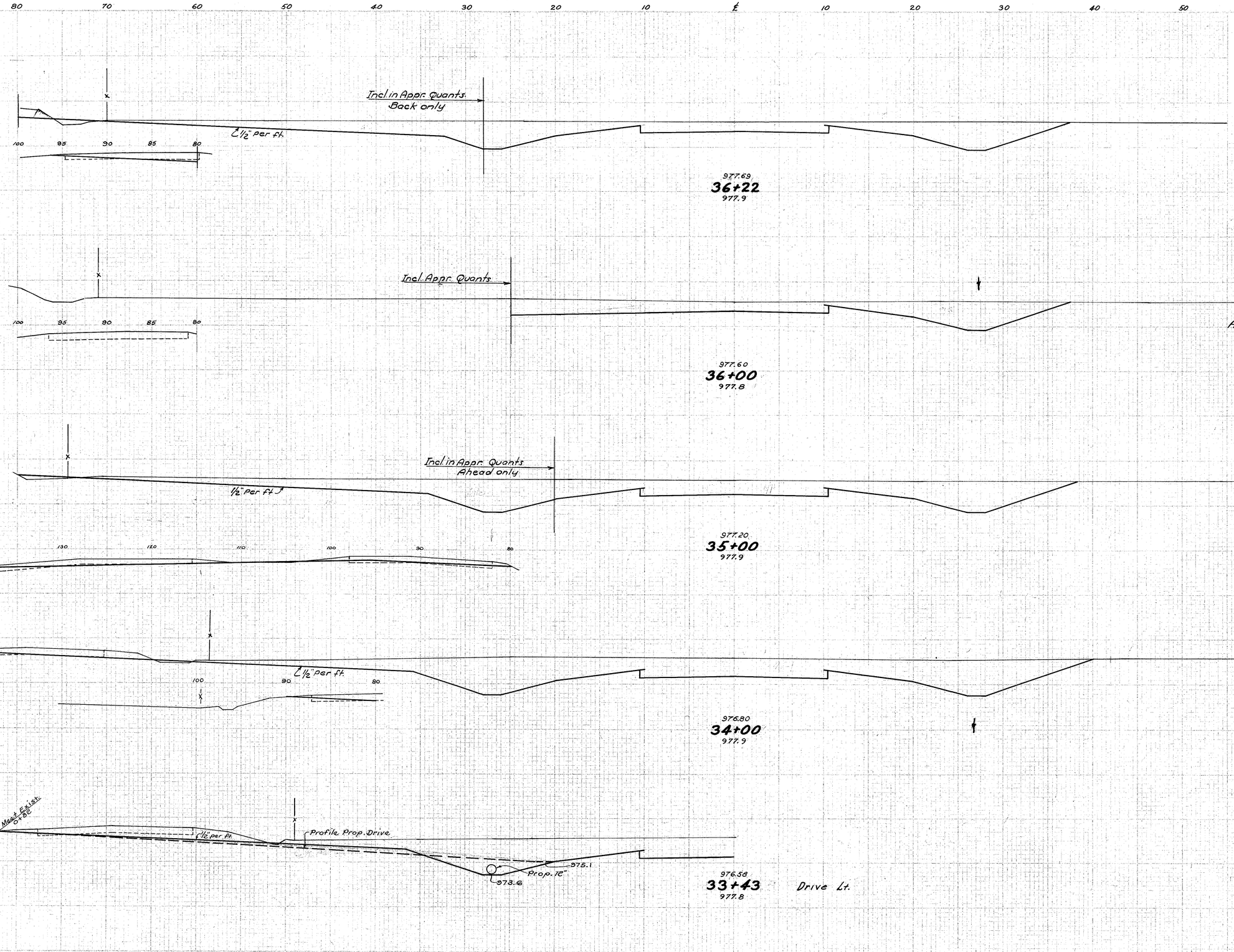
END AREA		VOLUME	
CUT	FILL	CUT	FILL
255	0		
		1006	0
288			
		1024	0
265	0		
		460	1
232	1		
		13	
		382	1
181	0		
		208	1
150	2		

STA. 30+00 ~ To ~ STA. 33+00

FED. AID PROJECT S-1133(1) POST WAR

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CLINTON COUNTY
CLI.-730-(3.98 4.14)
CLI-350-4.07



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Ahead	167	4		
Back	104	0		
			82	0
Approach Sta. 35+75.45 Lt.			596	39
	98	0		
			387	0
Ahead	111	0		
Back	212	7		
			807	20
			224	4
			887	7
Drive Sta. 33+43 Lt.			30	
Sta. 33+00	255	0		

STA. 33+43 ~ To ~ STA. 36+22

FED. AID S-1133(1) POST WAR

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50

Incl. in Struct. Quants.

Prop. channel

972.6

973.0

979.01
39+51.3
974.6

1½ per ft.

973.88

974.2

978.80
39+00
976.4

974.28

974.6

978.40
38+00
977.4

Drive Profile

Prop. 12"

978.16
37+40 DR. LT.
977.6

Drive Sta. 37+40 Lt.

974.68

978.00
37+00
977.8

½" per ft.

977.84
36+60
977.8

Sta. 36+22

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

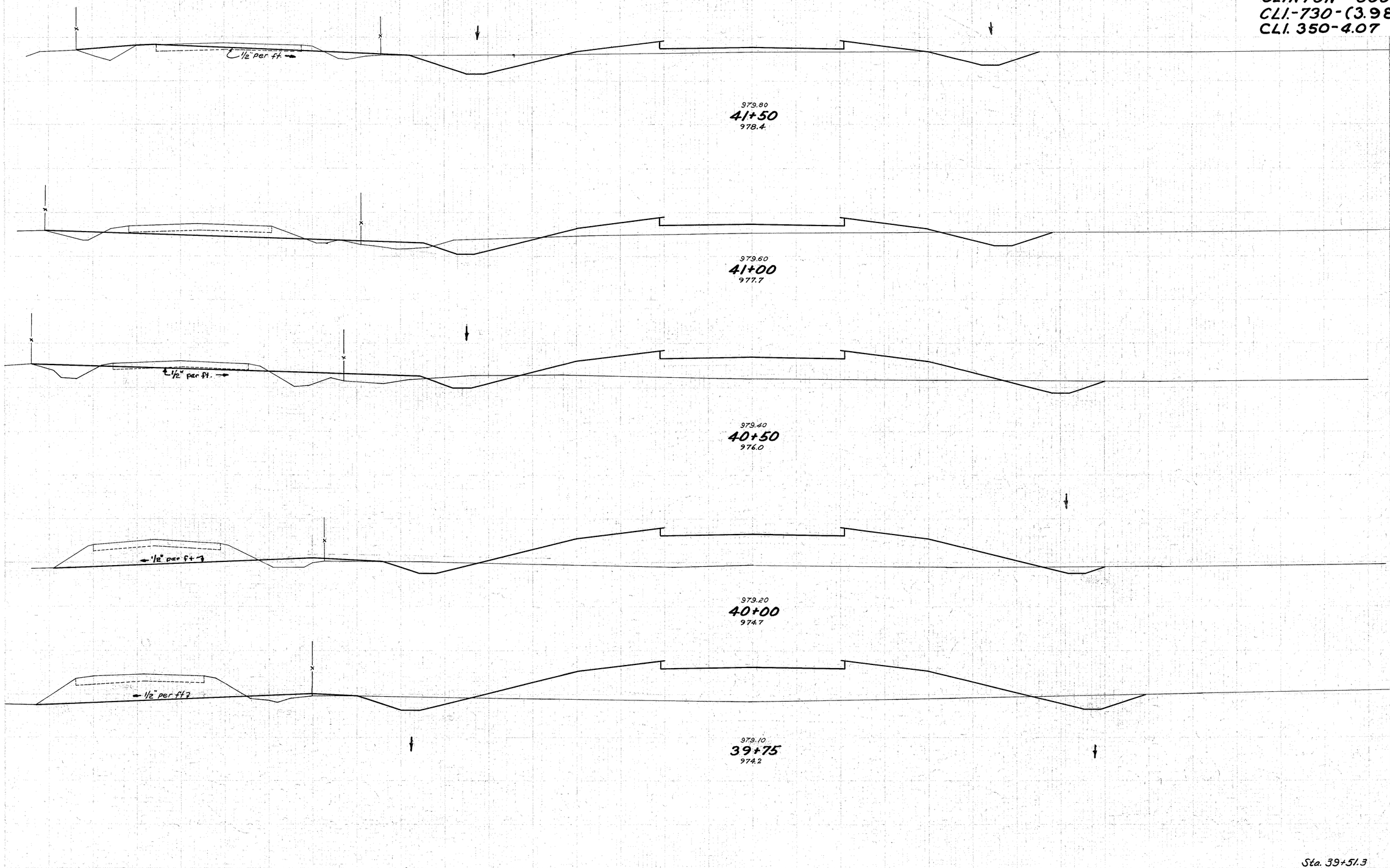
STA. 36+60 ~To~ STA. 39+51.3

END AREA		VOLUME	
CUT	FILL	CUT	FILL
37	171		
		92	242
60	84		
		294	174
99	10		
		15	0
		424	28
130	5		
		202	9
142	7		
		217	8
167	4		

FED. AID S-1133(1) POST WAR

25
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CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI. 350-4.07



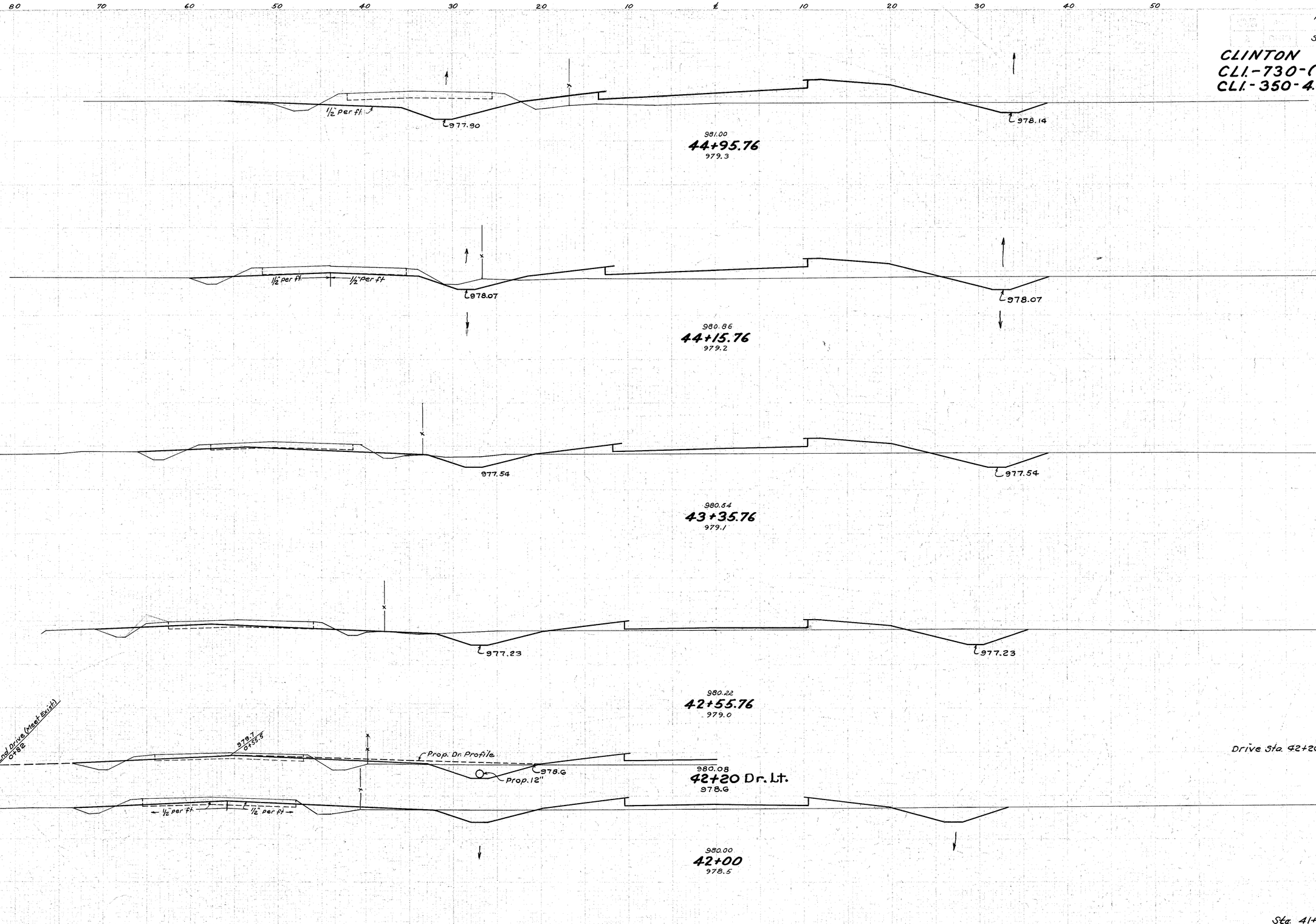
END AREA		VOLUME	
CUT	FILL	CUT	FILL
49	39		
		91	89
49	57		
		75	175
32	132		
		88	303
63	195		
		67	181
81	196		
		52	161
37	171		

Sta. 39+51.3

STA. 39+75 ~ To ~ STA. 41+50

FED. AID S-1133(1) POST WAR

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07

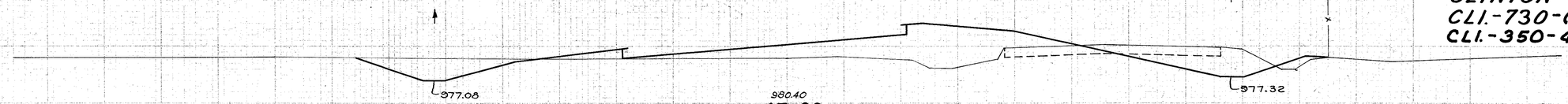


END AREA		VOLUME	
CUT	FILL	CUT	FILL
53	73		
		135	191
38	56		
		110	148
36	44		
		119	108
44	28		
		11	14
		85	70
38	40		
		81	73
49	39		

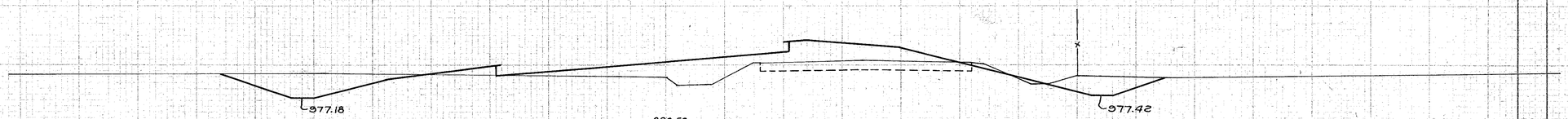
		FED. AID	
	STATE		FED.
2	OHIO	S-1133(1)	POST WAR

27
121

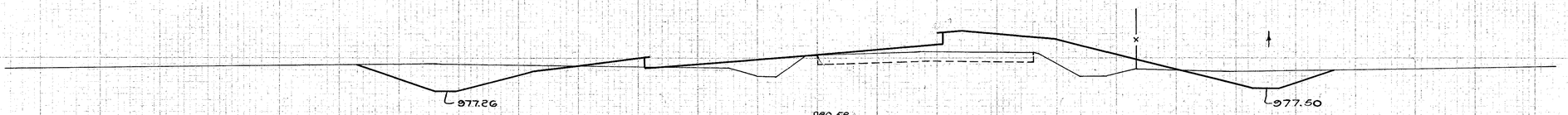
CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07



980.40
47+00
979.0



980.50
46+75
979.0



980.58
46+55.76
980.34



980.78
46+03.76
980.6



980.89
45+75.76
979.2

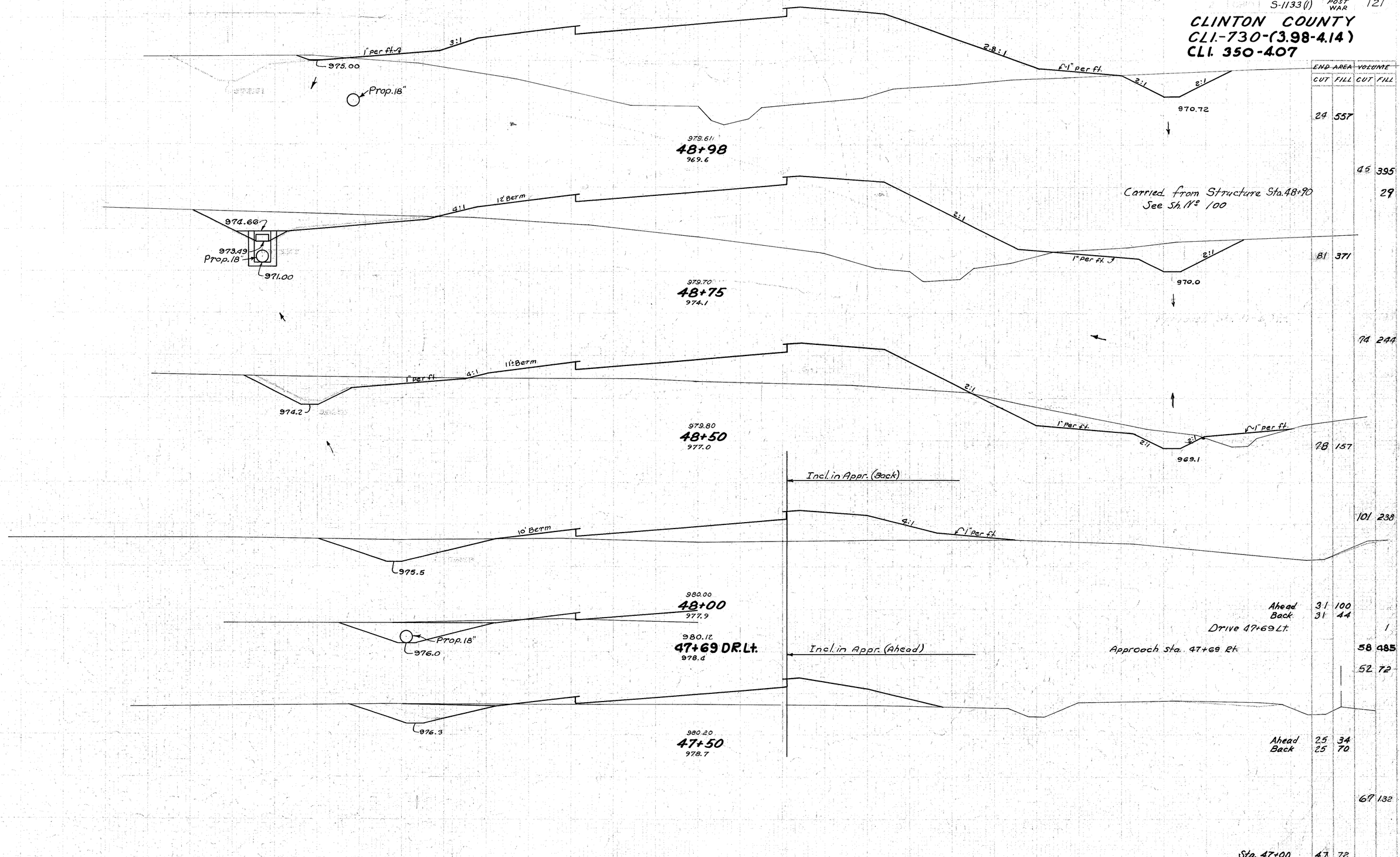
	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
47	72			
			38	58
35	53			
			24	34
33	43			
			68	101
38	62			
			41	69
41	71			
			143	213
Sta. 44+95.76	53	73		

STA 45+75.76 ~To~ STA 47+00

FED. AID S-1133(1) POST WAR

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121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI. 350-4.07



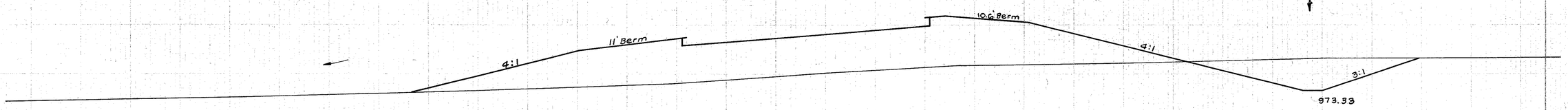
	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
			29	557
			45	395
				29
			81	371
			74	244
			78	157
			101	238
Ahead	31	100		
Back	31	44		1
Drive 47+69 Lt.			58	485
			52	72
Ahead	25	34		
Back	25	70		
			69	132
Sta. 47+00	47	72		

STA. 47+50 – T – STA. 48+98

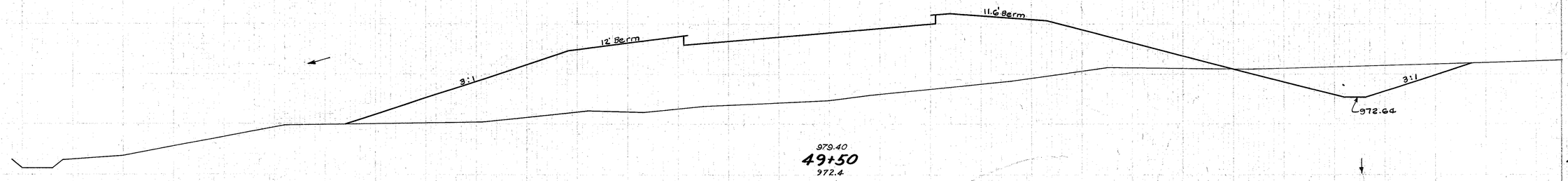
80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50

FED. AID S-1133(1) POST WAR

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07



979.27
49+82
975.1

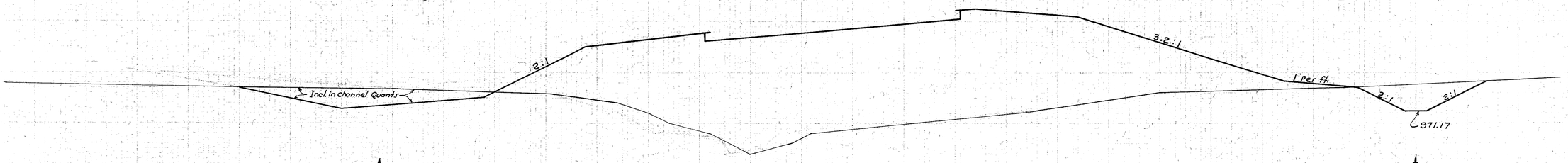


979.40
49+50
972.4



979.46
49+36
971.3

Excav. for blankat underdrain - Sta. 49+21 Rt. & Lt.
(See sheet 85)



979.55
49+12.5
969.4

Sta. 48+98

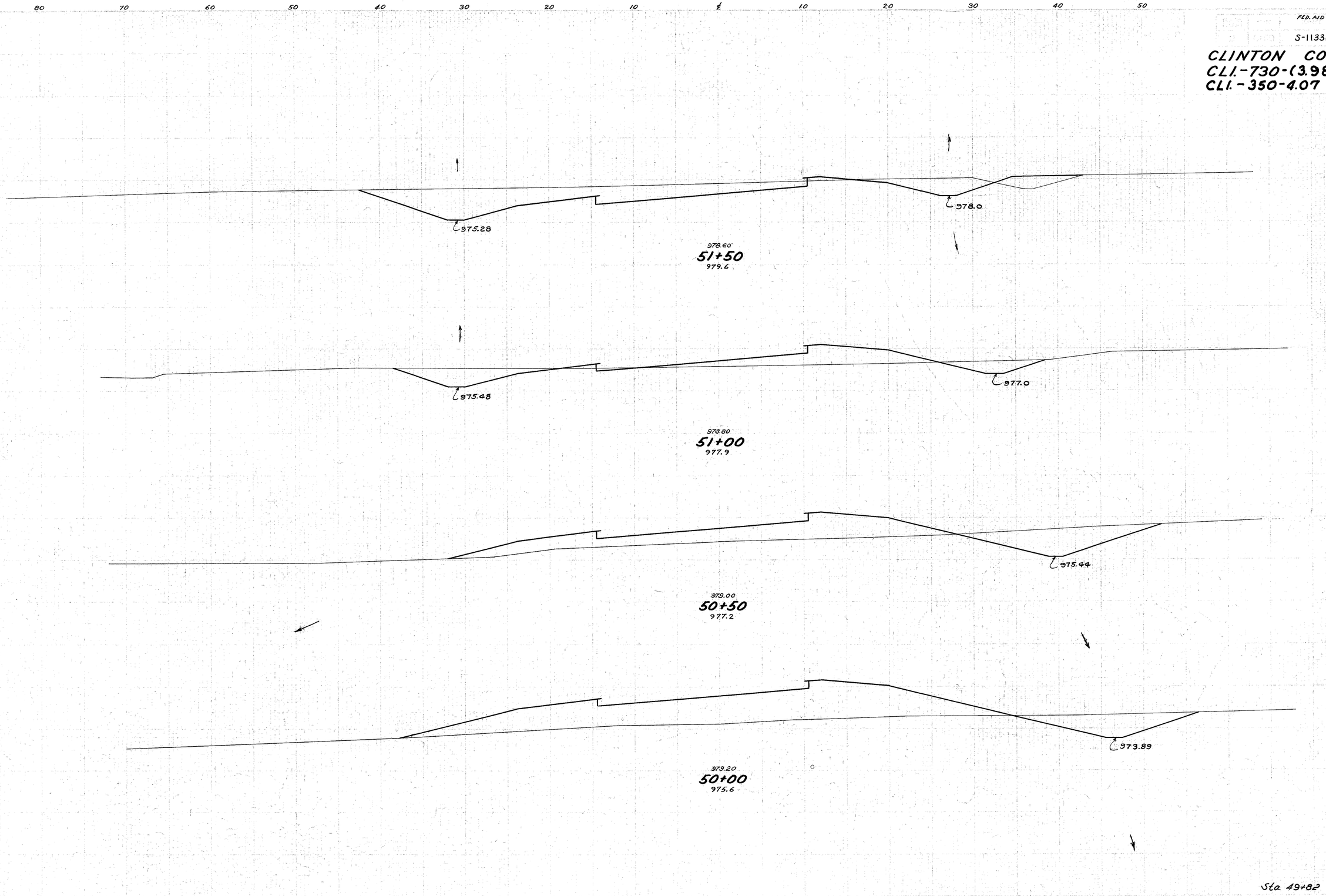
STA. 49+12.5 ~ To ~ STA. 49+82

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
43	258		
		50	411
41	436		
		17	272
25	612		
		30	
		20	511
20	562		
		12	300
24	557		

FED. AID S-1133(1) POST WAR

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121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07



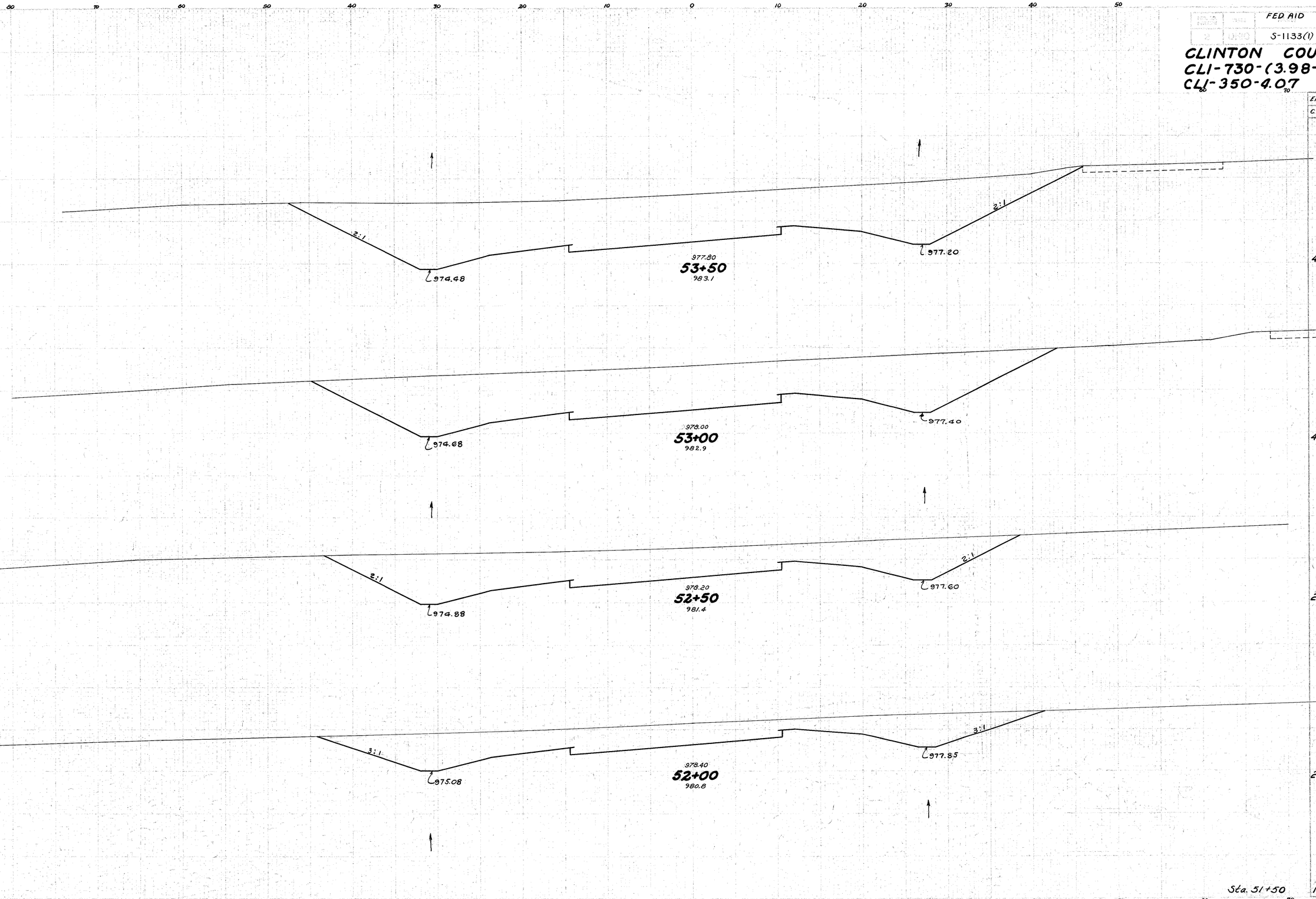
END AREA		VOLUME	
CUT	FILL	CUT	FILL
116	11		
		140	49
35	42		
		72	131
43	99		
		69	272
32	195		
		25	151
Sta. 49+82			
43	258		

STA. 50+00 ~To~ STA. 51+50

FED AID S-1133(1) POST WAR

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121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		495	14
		846	13
		419	0
		657	0
		290	0
		480	0
		228	0
		319	10
Sta. 51+50		116	11

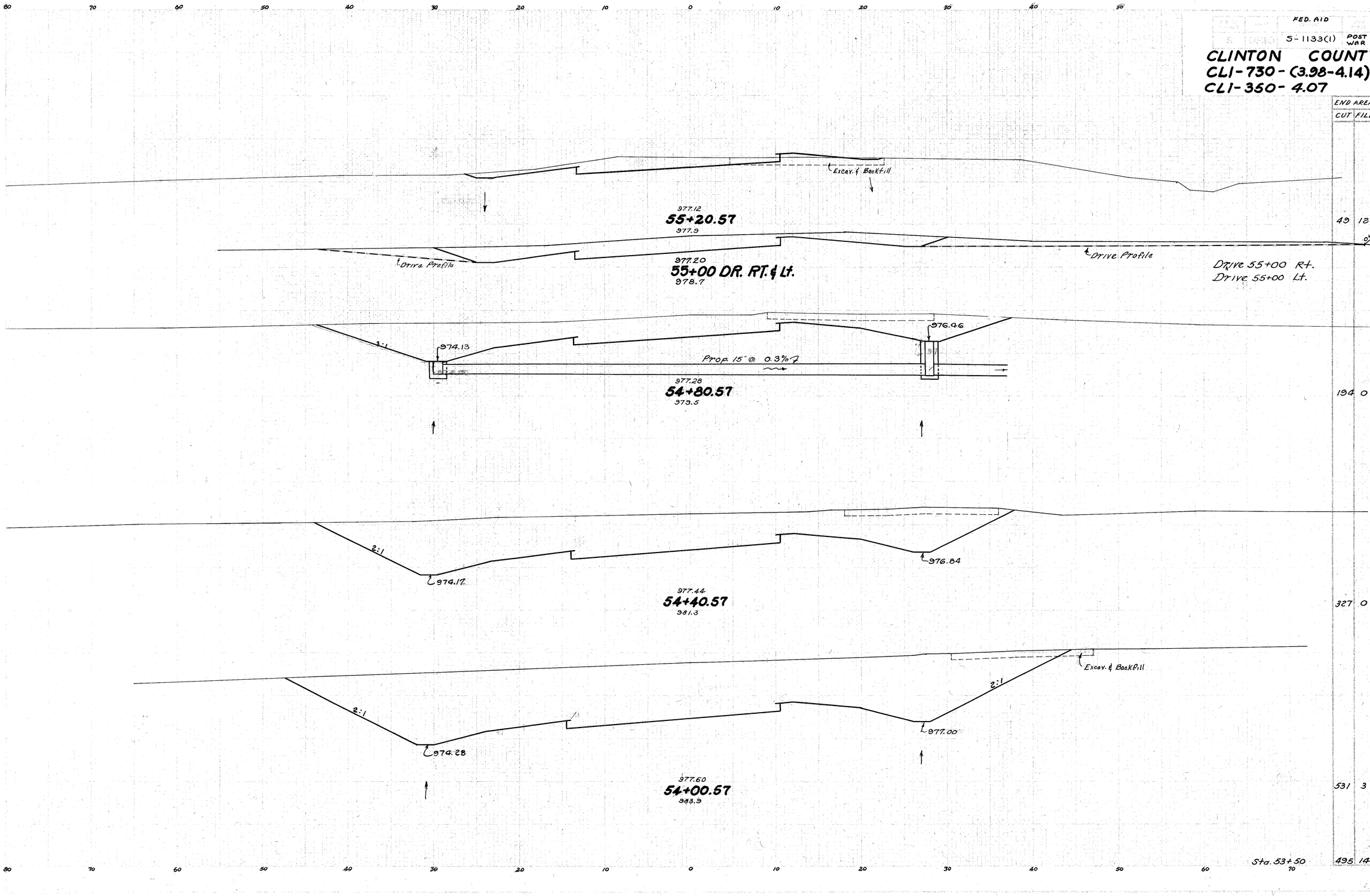
STA. 52+00 - STA. 53+50

FED. AID

S-1133(1) POST WAR

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121

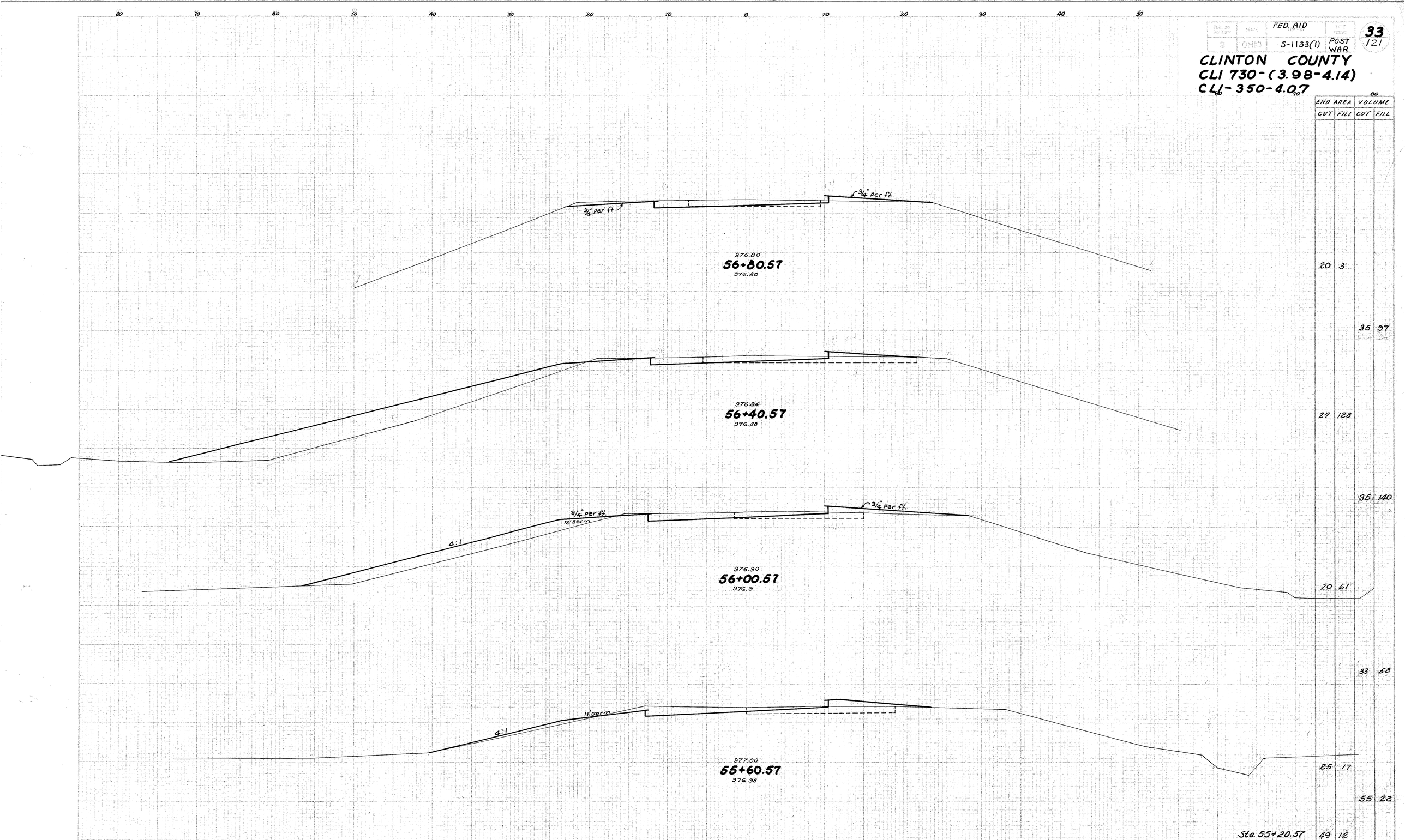
CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07



END AREA		VOLUME	
CUT	FILL	CUT	FILL
	49	12	
			30
			14
		180	9

DIST.	SHEET	FED. AID	TOTAL SHEETS
2	OHIO	S-1133(1) POST WAR	33 / 121

CLINTON COUNTY
CLI 730-(3.98-4.14)
CLI-350-4.07



	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	20	3		
			35	97
	27	128		
			35	140
	20	61		
			33	58
	25	17		
			55	22
Sta. 55+20.57	49	12		

STA. 55+60.57 - STA. 56+80.57

STATE		FED. AID		SHT. NO.	34
2	ORE.	S-1133(1)	POST WAR		121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07

END AREA		VOLUME	
CUT	FILL	CUT	FILL
29	0		
		49	0
24	0		
		40	1
20	1		
		29	2
19	1		
		20	2
20	2		
		30	4
Sta. 56+80.57	20	3	

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50

3/4" per ft.

976.80
59+00
976.81

976.80
58+50
976.69

976.80
58+00.57
976.77

976.80
57+60.57
976.74

3/4" per ft.

976.80
57+20.57
976.72

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

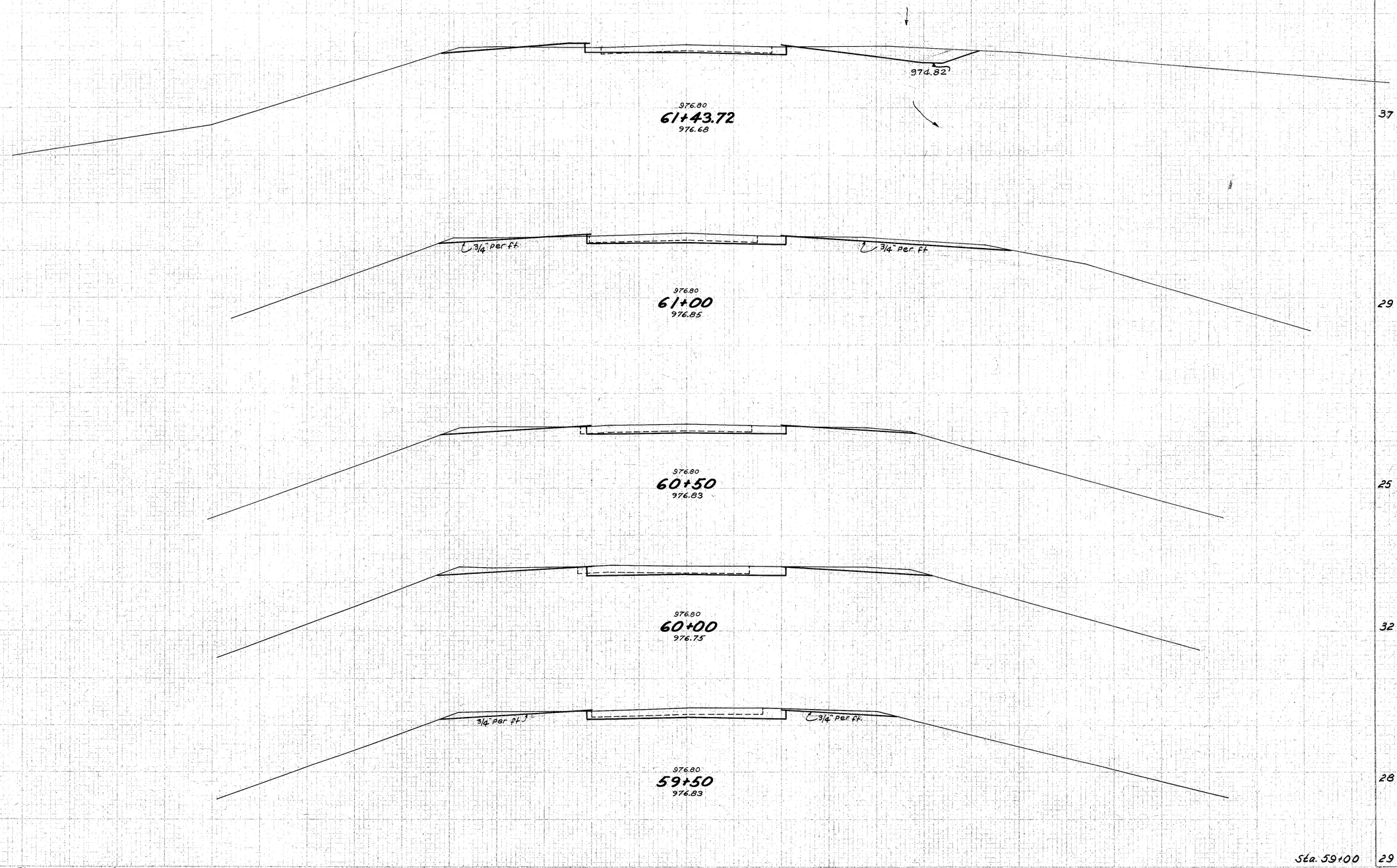
STA. 57+20.57 ~To~ STA. 59+00

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50

FED. AID S-1133(1) POST WAR

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CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI. 350-4.07



	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	37	3		
			53	3
	29	1		
			50	1
	25	0		
			53	0
	32	0		
			56	0
	28	0		
			53	0
Sta. 59+00	29	0		

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

STA. 59+50 — To — STA. 61+43.72

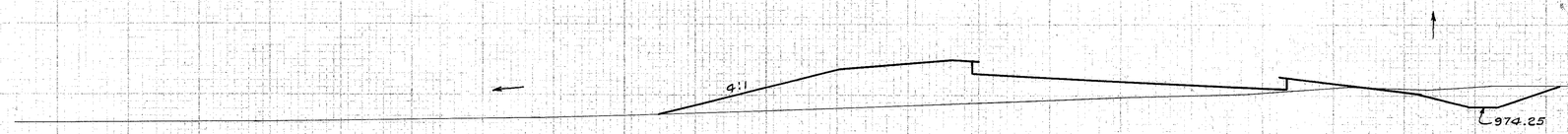
FED. AID S-1133(1) POST WAR

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121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07

END AREA VOLUME
CUT FILL CUT FILL

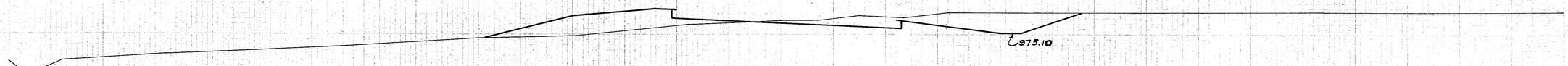
80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50



976.59
63+18.72
974.94

10 75

27 68

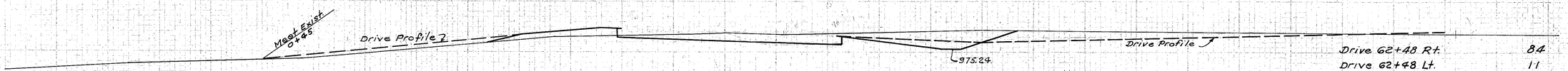


976.69
62+83.72
976.4

32 30

Ex Drive Removed Sta. 62+82.73 Rt. 28 28

43 25

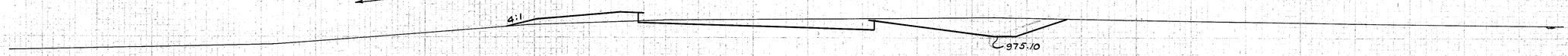


Drive 62+48 Rt. 84
Drive 62+48 Lt. 11

976.76
62+48.72 DR. RT. & LT.
976.9

35 8

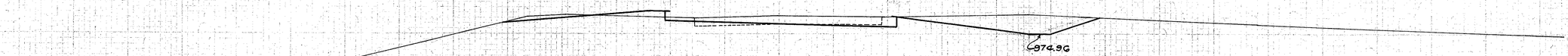
44 10



976.80
62+13.72
976.62

33 8

44 7



976.80
61+78.72
976.69

35 3

48 4

Sta. 61+43.72 37 3

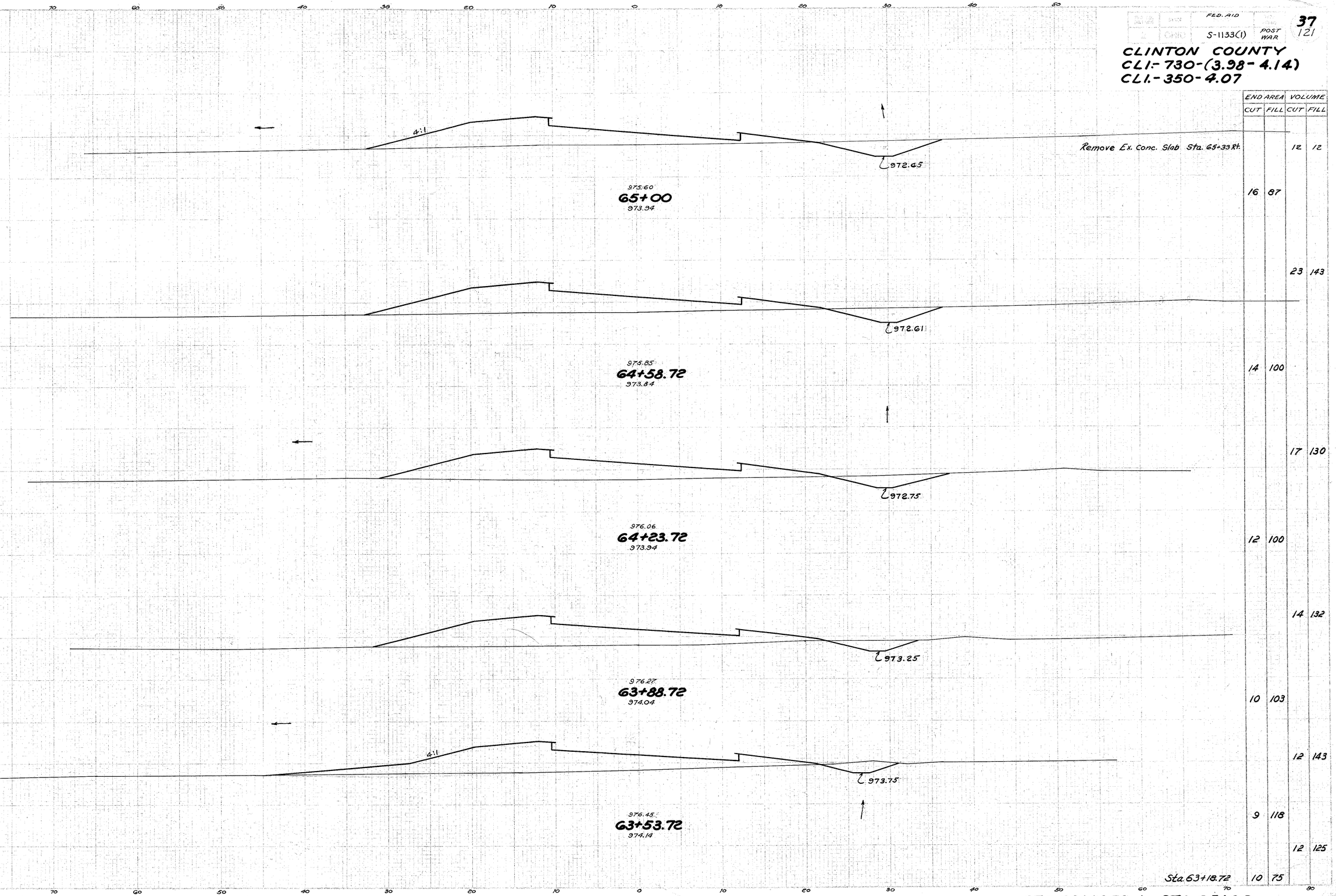
80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

STA. 61+78.72 To STA. 62+48.72

FED. AID S-1133(1) POST WAR

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CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07



	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
Remove Ex. Conc. Slab Sta. 65+33 Rt.			12	12
	16	87		
			23	143
	14	100		
			17	130
	12	100		
			14	132
	10	103		
			12	143
	9	118		
			12	125
Sta. 63+18.72	10	75		

STA. 63+53.72 to STA. 65+00

FED. AID S-1133(1) POST WAR

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121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50

973.80
68+00
971.3

971.50

974.10
67+50
972.0

970.64

974.40
67+00
973.1

971.10

975.00
66+00
973.5

971.32

975.30
65+50
973.94

971.88

Prop. Drive Profile

Drive 67+00 Rt.

Sta. 20+35.55 to Sta 68+72	Cu. Yds.
Excavation	18,049
Embankment	27,421
Embankment +15%	31,534

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	1	137		
			12	232
	12	113		
			31	176
			35	
	21	77		
			46	283
	29	76		
			104	143
	27	78		
			40	153
Sta. 65+00	16	87		

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

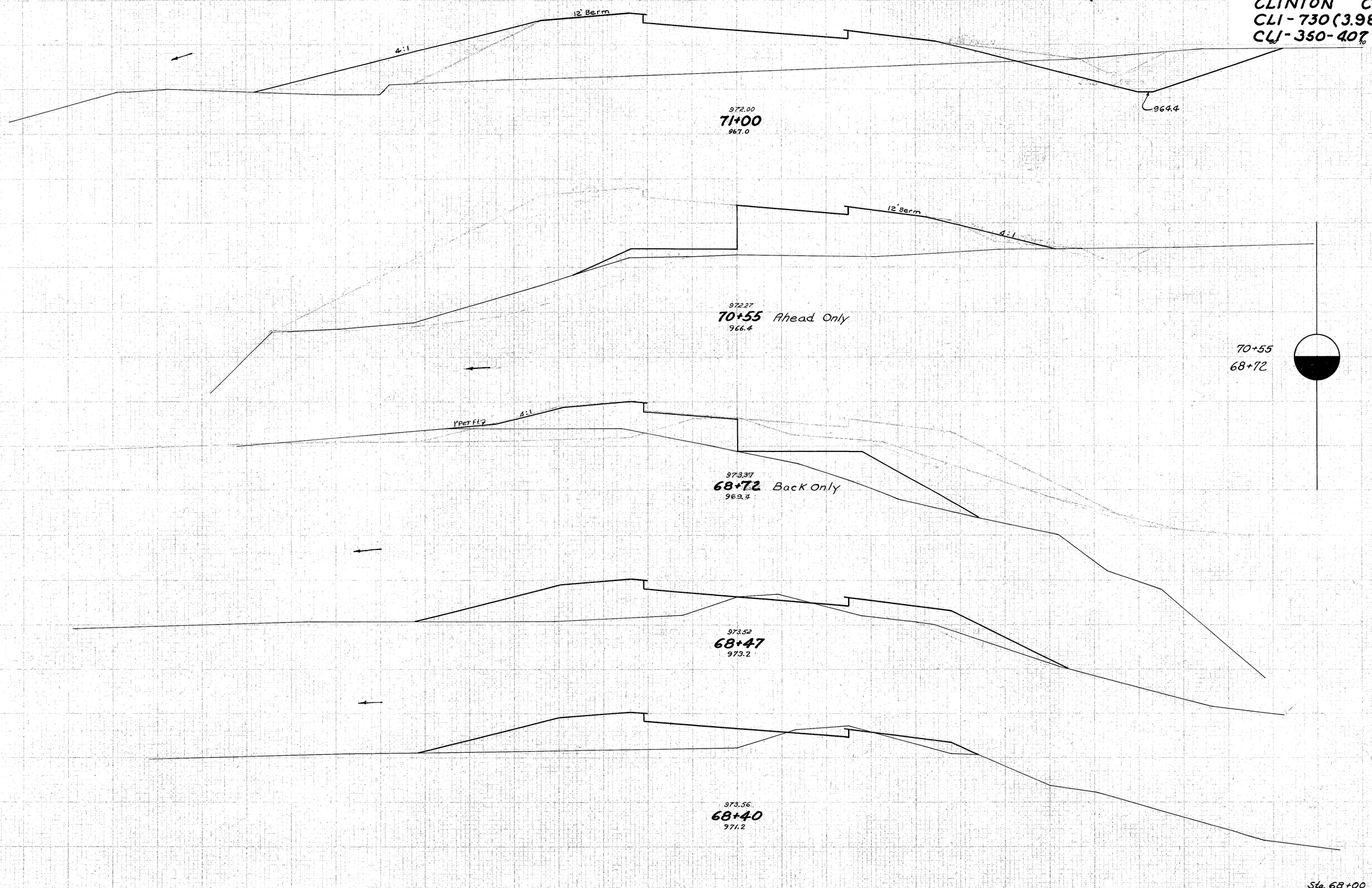
STA. 65+50 ~To~ STA. 68+00

FED. AID

S-1133 (1) POST WAR

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121

CLINTON COUNTY
CLI-730(3.98-4.14)
CLI-350-40%



END AREA		VOLUME	
CUT	FILL	CUT	FILL
70	350		
		58	420
0	154		
0	101		
		2	107
4	131		
		1	32
5	114		
		4	186
1	137		

FED. AID PROJECT	STATE	FED. AID PROJECT	SHEET NO.	SHEETS
2	OHIO	S-1133(1)	POST WAR	40 121

CLINTON COUNTY
CLI-730 (3.98-4.14)
CL 40/70 I-350-40.7

GND. AREA CUT	GND. AREA FILL	VOLUME CUT	VOLUME FILL
334	0		
		587	0
371	0		
		367	0
196	0		
		187	15
93	23		
		159	
33	153		
		95	475
70	350		

80 70 60 50 40 30 20 10 0 10 20 30 40 50

2:1 — 970.49 — 971.83 — 73+03.72 — 971.9 — 968.78 — 2:1

3:1 — 970.35 — 971.62 — 72+68.72 — 973.9 — 968.56

370.21 — 971.52 — 72+33.72 — 973.8 — 968.42 — 2:1

968.5 — 971.51 — 71+98.72 — 971.7 — 968.28 — 3:1

Sod — Sod — 965.0 — Prop. Type 'B' Paved Gutter incl. in Struct. Quant. See Sheet No 93. — 971.70 — 71+50 — 968.9 — 968.09

Sta. 71+00

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

STA. 71+50 — STA. 73+03.72

FED AID

STATE | DIST | NO.

OHIO | S-1133(1) | POST WAR

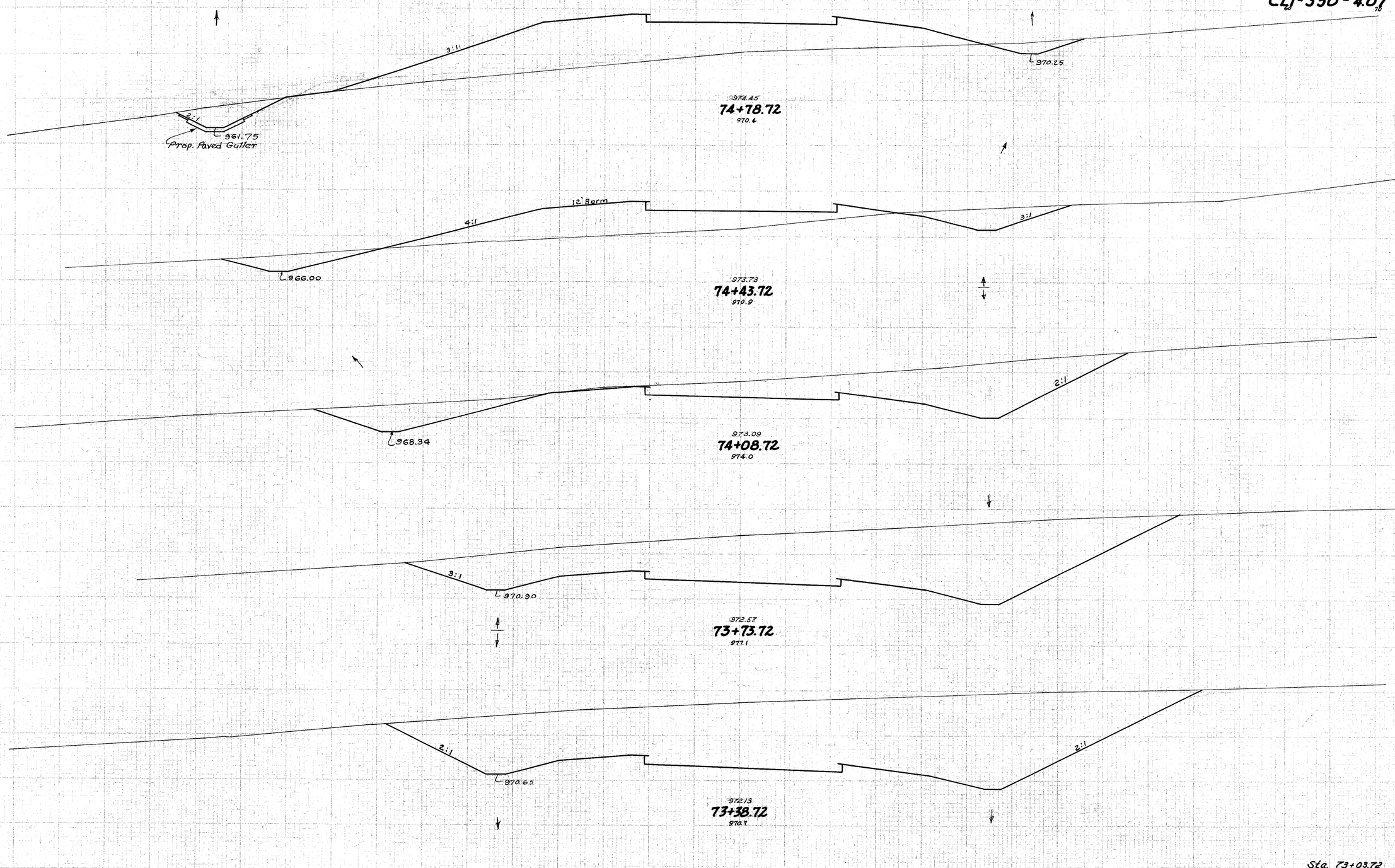
41

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CLINTON COUNTY

CLI-730-(3.98-4.14)

CLJ-350-4.07



END AREA		VOLUME	
CUT	FILL	CUT	FILL
27	225		
		45	218
43	112		
		152	73
191	0		
		387	0
406	0		
		631	0
568	0		
		714	0
Sta. 73+03.72	534	0	

STA 73+38.72 — STA 74+78.72

FED. AID S-1133(11) POST WAR

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CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
			545
20	545		
		26	1033
20	1049		
		12	680
18	1111		
		28	1001
41	1009		
		23	694
14	657		
		16	348
		27	225

74+78.22

Carried from Structure Sta. 75+70

11' Berm
12' Berm
Back
Ahead
3:1
Prop. 18"
969.5
Prop. Std. Type "B" Headwall
2:1
976.92
76+00
967.9
960.2
1" Per ft.
Sod
961.00
Prop. 18"
976.21
75+65
961.0
962.75
975.86
75+48
957.9
3:1
1" Per ft.
965.5
975.34
75+22.5
960.8
Incl. in Channel Quants
955.7
Prop. Paved Gutter
4:1
968.75
974.88
75+00
964.3
956.5

STA. 75+00 – STA. 76+00

FED. AID S-1133(1) POST WAR

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CLINTON COUNTY
CLI-730-3.98-4.14
CLI-350-4.07

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
315	0		
		393	3
109	3		
		130	106
31	111		
		32	144
28	157		
		40	343
24	284		
		24	445
20	545		

980.90
78+00
983.8

976.0

979.97
77+50
980.1

10' Berm
4:1
975.5
972.7

978.96
77+00
975.7

11' Berm
3:1
1" per ft.
Sod
Sod
Prop Paved Gutter
974.0
971.0

978.37
76+71
974.0

12' Berm
2:1
972.0

977.511
76+29
973.1

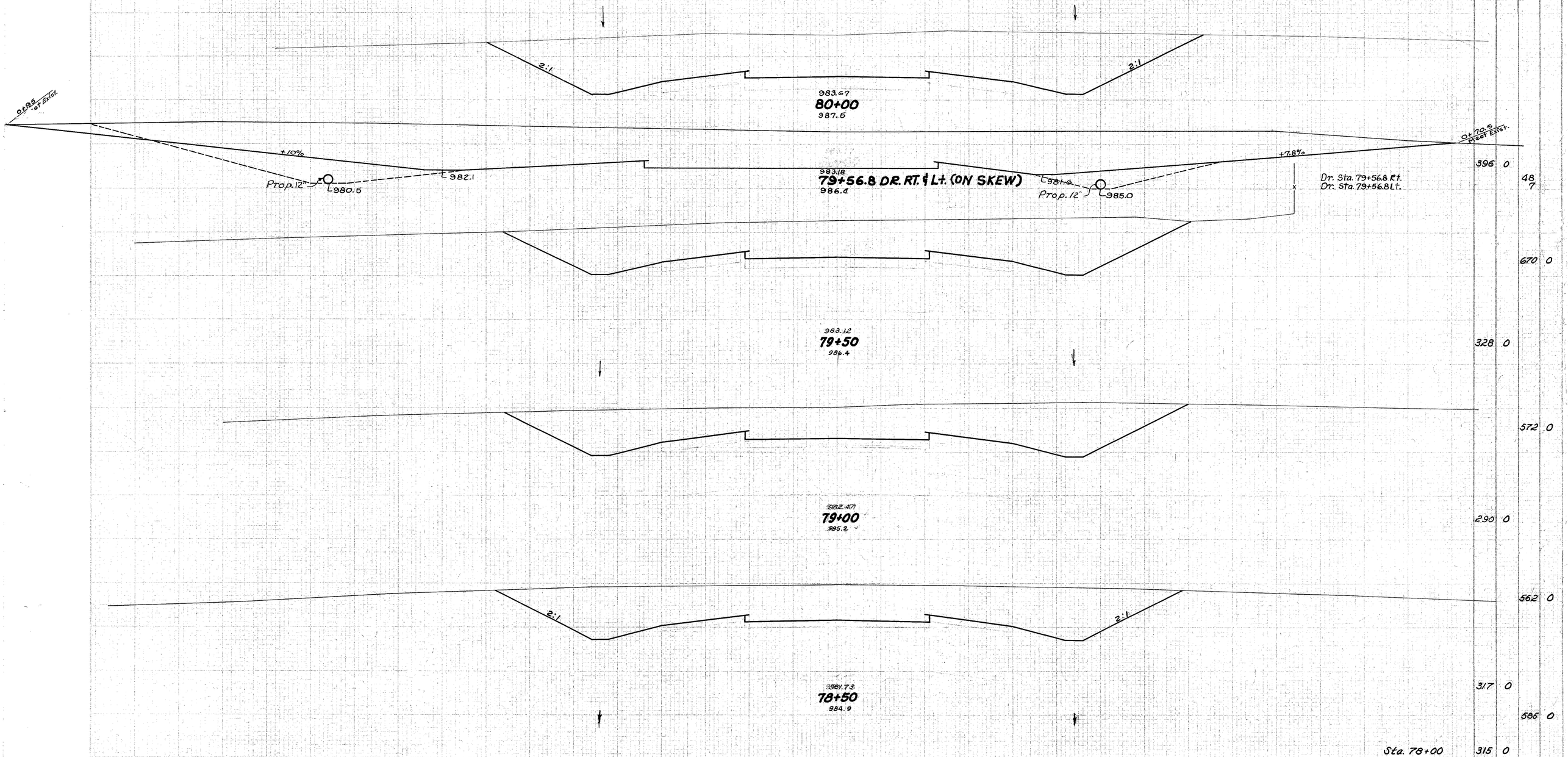
1" per ft.
Sod
8:1
2:1
Sod
963.5

STA. 76+29 — STA. 78+00

FED. AID			
REGION	STATE	PROJECT	
5	OHIO	S-1133(1)	POST WAR

44
121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07

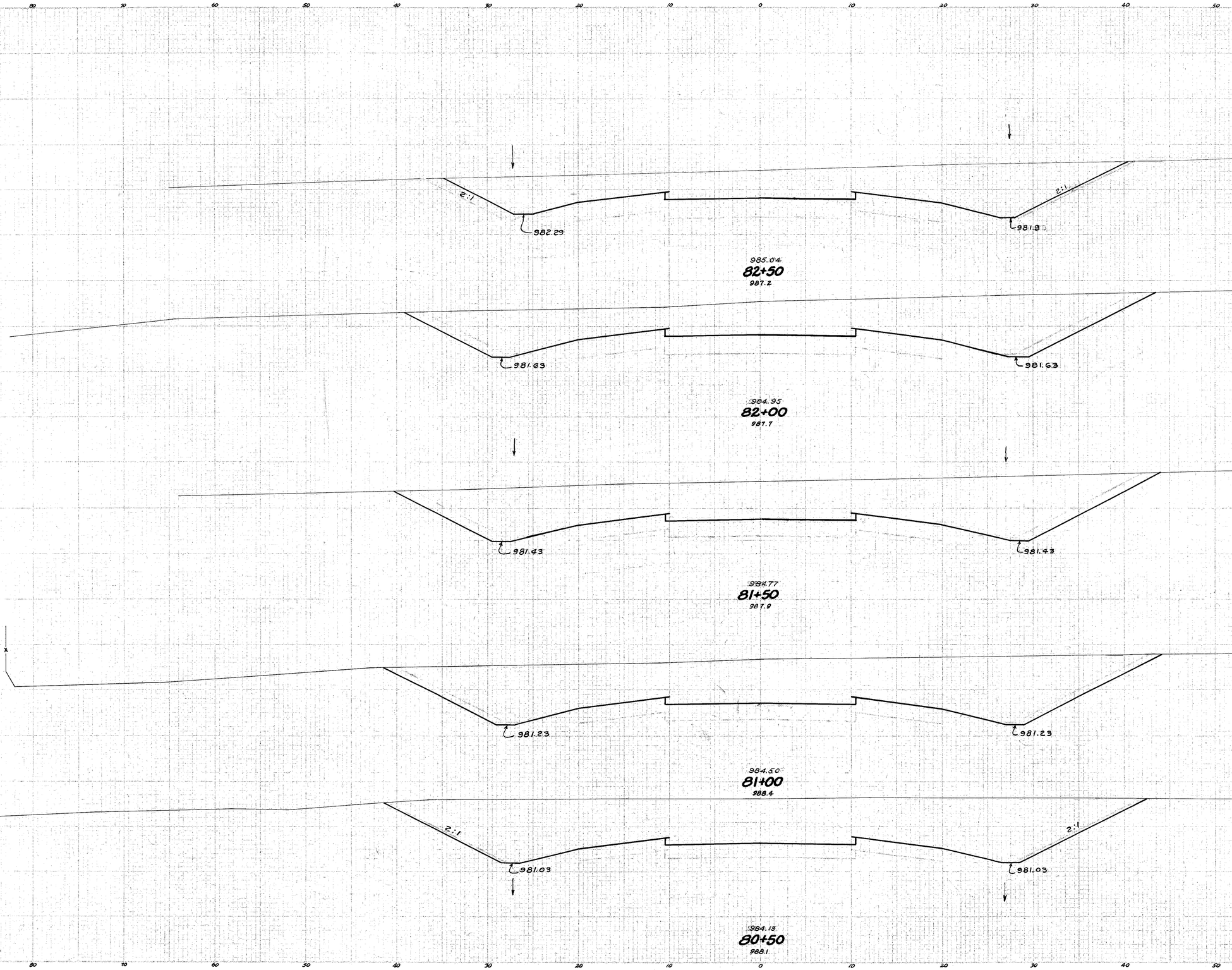


END AREA		VOLUME	
CUT	FILL	CUT	FILL
396	0		48
			7
		670	0
328	0		
		572	0
290	0		
		562	0
317	0		
		586	0
315	0		

STA. 78+50 — STA. 80+00

FED. AID PROJECT	STATE	FED. AID	SHEET NO. 45
0	OHIO	S-1133(1) POST WAR	TOTAL SHEETS 121

CLINTON COUNTY
CL-730-(3.98-4.14)
CL1-350-4.07



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
82+50		255	0	
			547	0
82+00		336	0	
			641	0
81+50		356	0	
			705	0
81+00		405	0	
			757	0
		413	0	
			749	0
Sta. 80+00		396	0	

STA. 80+50 – STA. 82+50

FED. AID S-1133(1) POST WAR

46 / 121

CLINTON COUNTY
CL-730-(3.98-4.14)
CLI-350-4.07

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		33	2
		269	0
		351	0
		273	0
		362	0
		285	0
		338	0
		236	0
		282	0
		244	0
		462	0
		255	0

Sta. 82+50

STA 83+00 – STA 84+37.31

FED. AID S-1133(1) POST WAR

47
121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		304	0
		334	2
		212	3
		274	7
		211	8
		135	5
		217	8
		192	4
		244	1
		290	1
		Sta. 84+37.31 269	0

983.31
85+77.31
984.6

883.55

2:1

3/4"/ft ↗

980.59

983.67
85+42.31
984.8

981.18

1/2"/ft ↗

981.78

984.05
85+07.31
984.5

982.08

984.14
84+90.31
984.4

2:1

1/2"/ft ↗

982.46

984.33
84+67.81
986.7

STA 84+67.81 - STA 85+77.31

STATE	FED. AID PROJECT	SHEET NO.	TOTAL SHEETS
OHIO	S-1133(1)	POST WAR	48 / 121

CLINTON COUNTY
CL-730-(3.98-4.14)
CU-350-4.07

	END AREA		VOLUME	
Sta.	CUT	FILL	CUT	FILL
86+38				
			238	29
86+62				
			262	4
87+00				
			190	1
86+82.31				
			319	0
86+47.31				
			467	0
			401	0
86+12.31				
			509	0
			385	0
			447	0
Sta. 85+77.31			304	0

981.01
87+37
980.3
982.37

4:1
2:1
1" per ft.

981.63
87+00
983.0

982.70

981.96
86+82.31
983.9

983.05

979.41

982.41
86+47.31
985.5

3:1
983.32

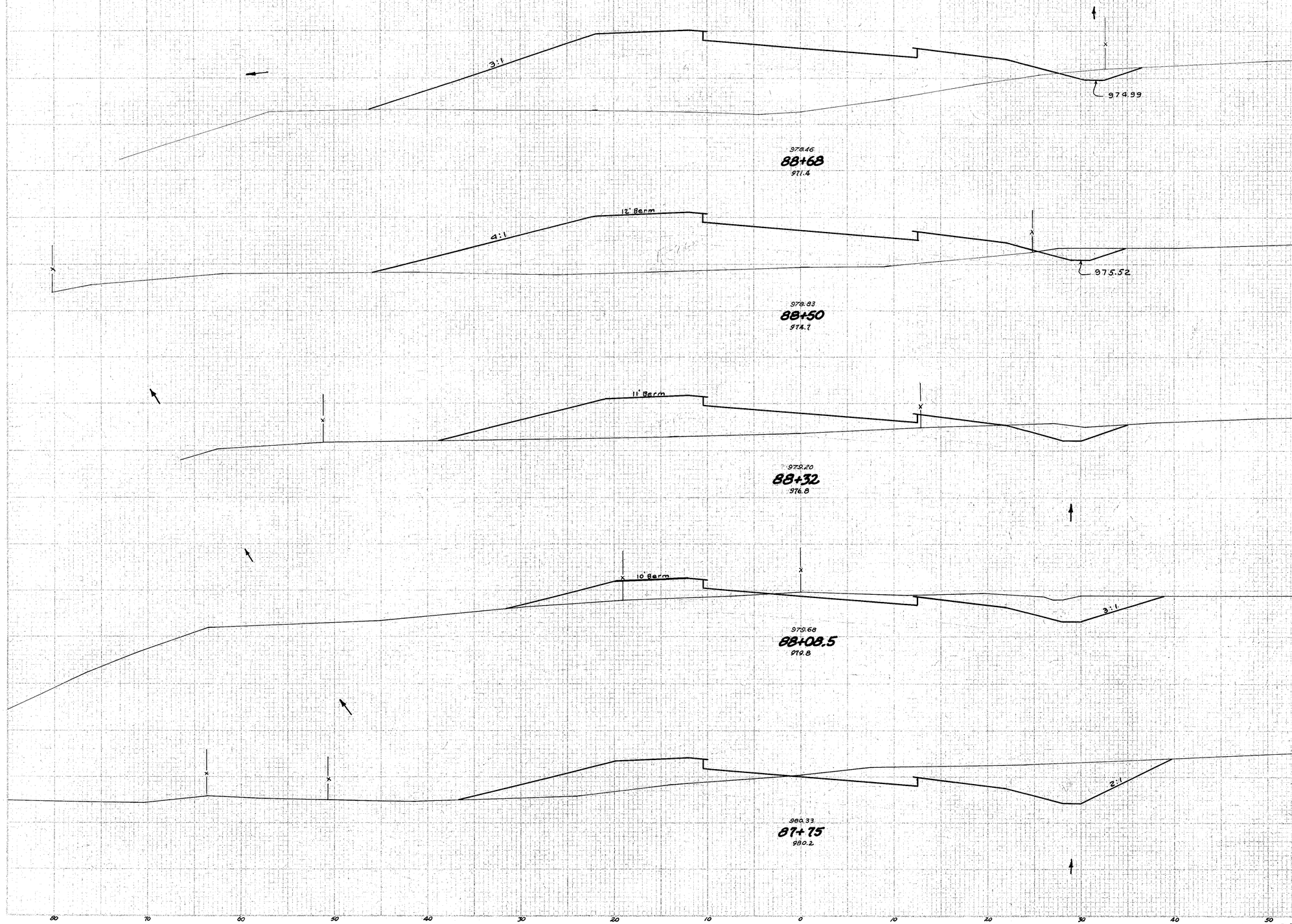
980.01

982.88
86+12.31
985.4

STA 86+12.31 — STA 87+37

SHEET NO.	STATE	FED AID PROJECTS	TOTAL SHEETS
2	OHIO	POST WAR	49 / 121

CLINTON COUNTY
CL-730-(13.98-4.14)
CLJ 350-4.07



Sta.	ENDAREA CUT	ENDAREA FILL	VOLUME CUT	VOLUME FILL
88+68	0	385		
			0	215
88+50	0	260		
			4	132
88+32	13	136		
			27	75
88+08.5	50	37		
			86	58
87+75	89	57		
			123	67
Sta. 87+37	86	38		

STA. 87+75 – STA. 88+68

FED. AID S-1133(1) POST WAR

50
121

CLINTON COUNTY
CL-730-(3.98-4.14)
CL-350-4.07

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
89+80		12		403
89+50		39	28	366
89+25		25	30	272
89+00		13	18	332
88+82		9	7	342
Sta. 88+68		0	2	250

Sta. 70+55 to Sta. 90+07
Excavation 1504.8 Cu. Yds.
Embankment 940.1 Cu. Yds.
Embankment +15% 108.1 Cu. Yds.

976.48
89+80
971.7

976.88
89+50
974.1

977.31
89+25
974.4

977.80
89+00
973.0

978.17
88+82
969.9

2:1
15'
962.5
18"
958.75
Sod.
958.7
972.58
973.47
974.07
974.50

STA. 88+82 - STA. 89+80

FED. AID S-1133(1) POST WAR

51
121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
71	581		
		32	251
71	548		
		37	346
47	550		
		15	303
10	619		
		4	314
4	626		
		4	255
Sta. 89+80 12	403		

975.80
90+50
965.3

970.05

2:1

975.89
90+38
967.6

970.17

976.03
90+21
969.1

970.34

3:1

Channel Excav. Sta. 89+25 ~ Sta. 90+21

970.48

Sod

976.16
90+07
967.2

90+07

970.6

8:1

Sod

976.30
89+93.39
967.4

2:1

8.5'
℄ 959.0
962.5
18"
2:1

8'
962.5
18"
2:1
2:1
℄ 958.9

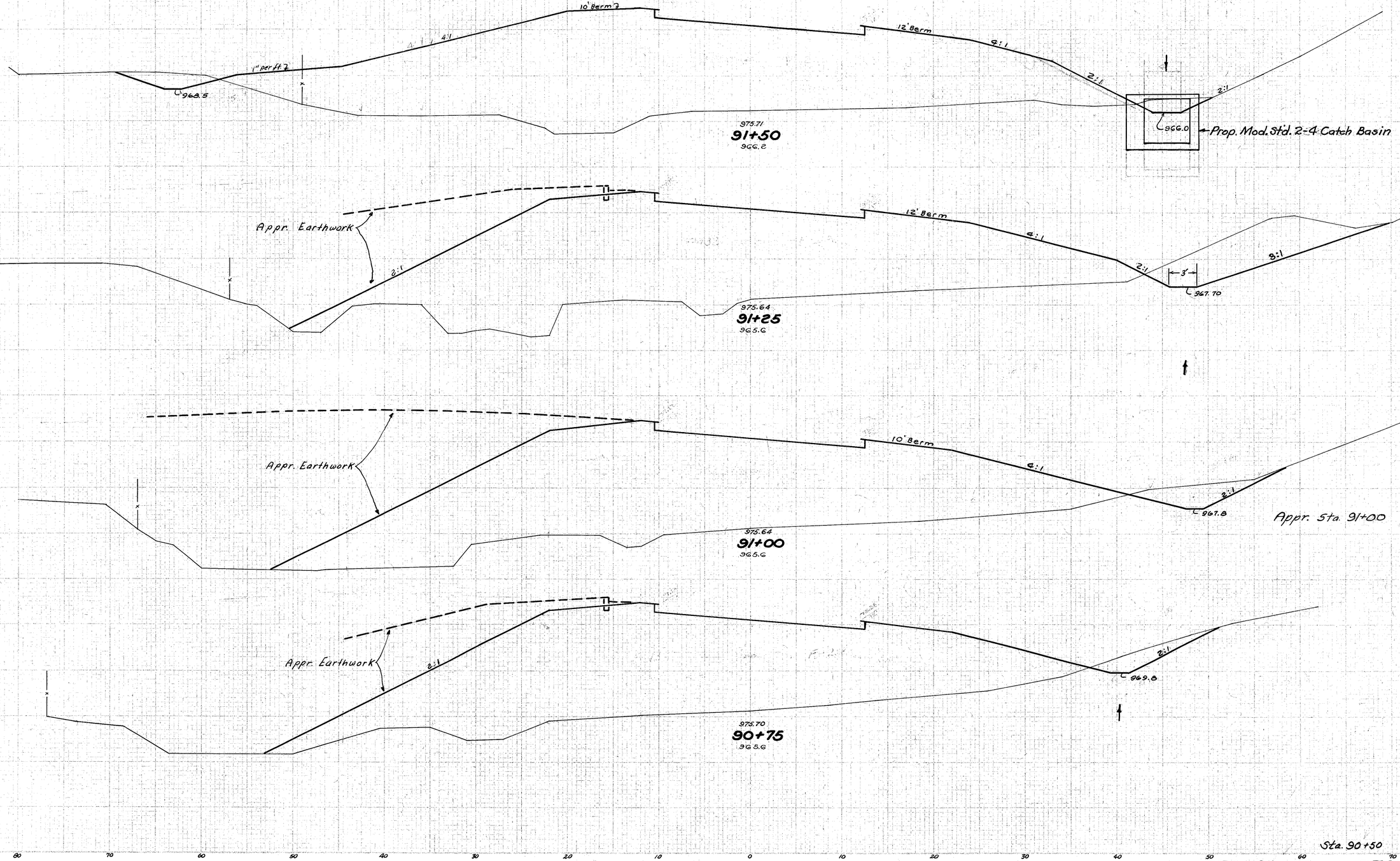
14'
962.5
18"
2:1
℄ 958.8

STA. 89+93.39 - STA. 90+50

FED. AID S-1133 (1) POST WAR

52 / 121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI 350-4.07



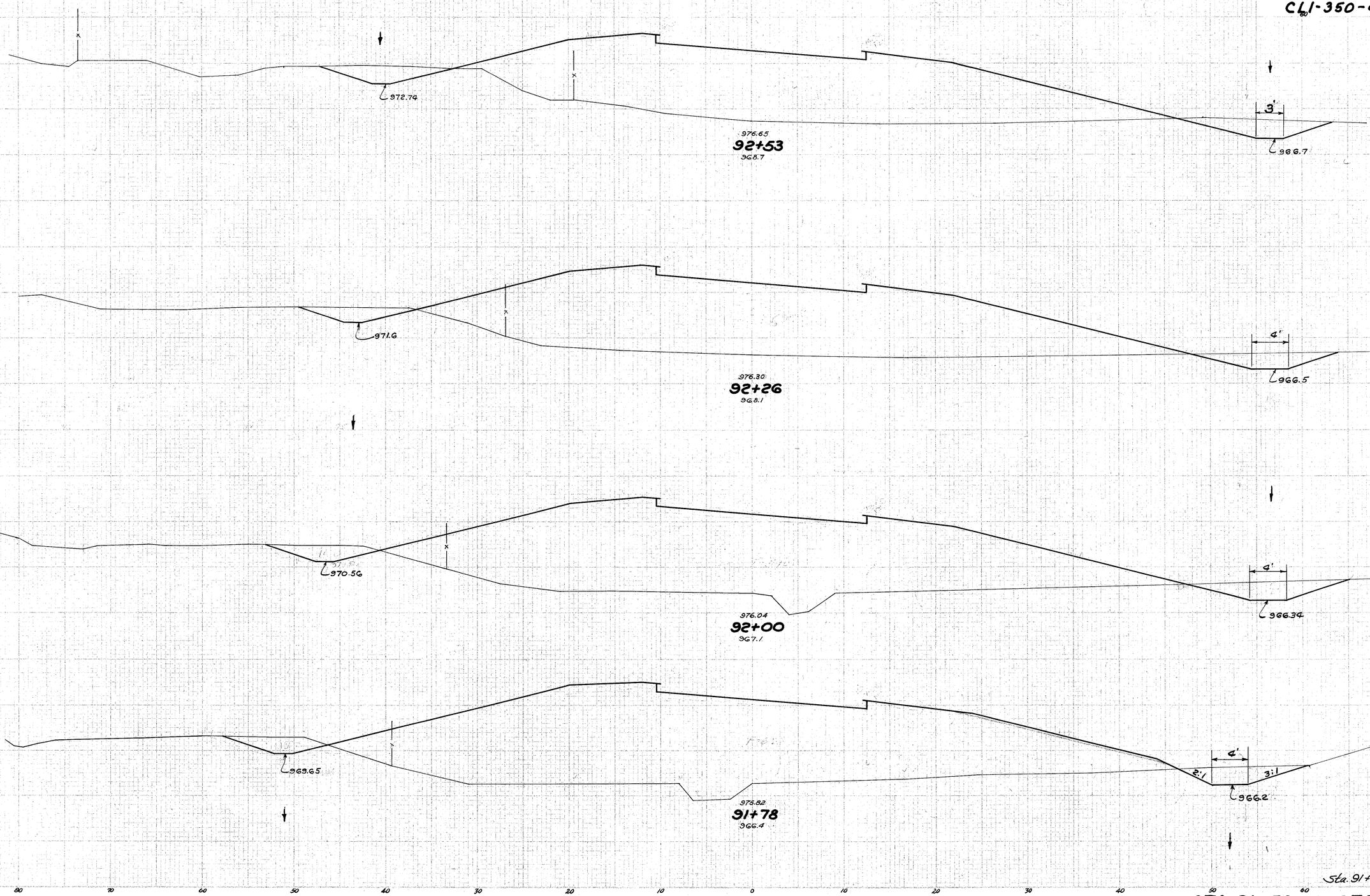
STA	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
91+50	22	748		
			44	676
91+25				
	74	712		
			45	665
91+00				
	24	724	224	3720
			19	646
90+75				
	16	672		
			40	585
Sta. 90+50	7	581		

STA. 90+75 — STA. 91+50

FED. AID S-1133(1) POST WAR

53
121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07



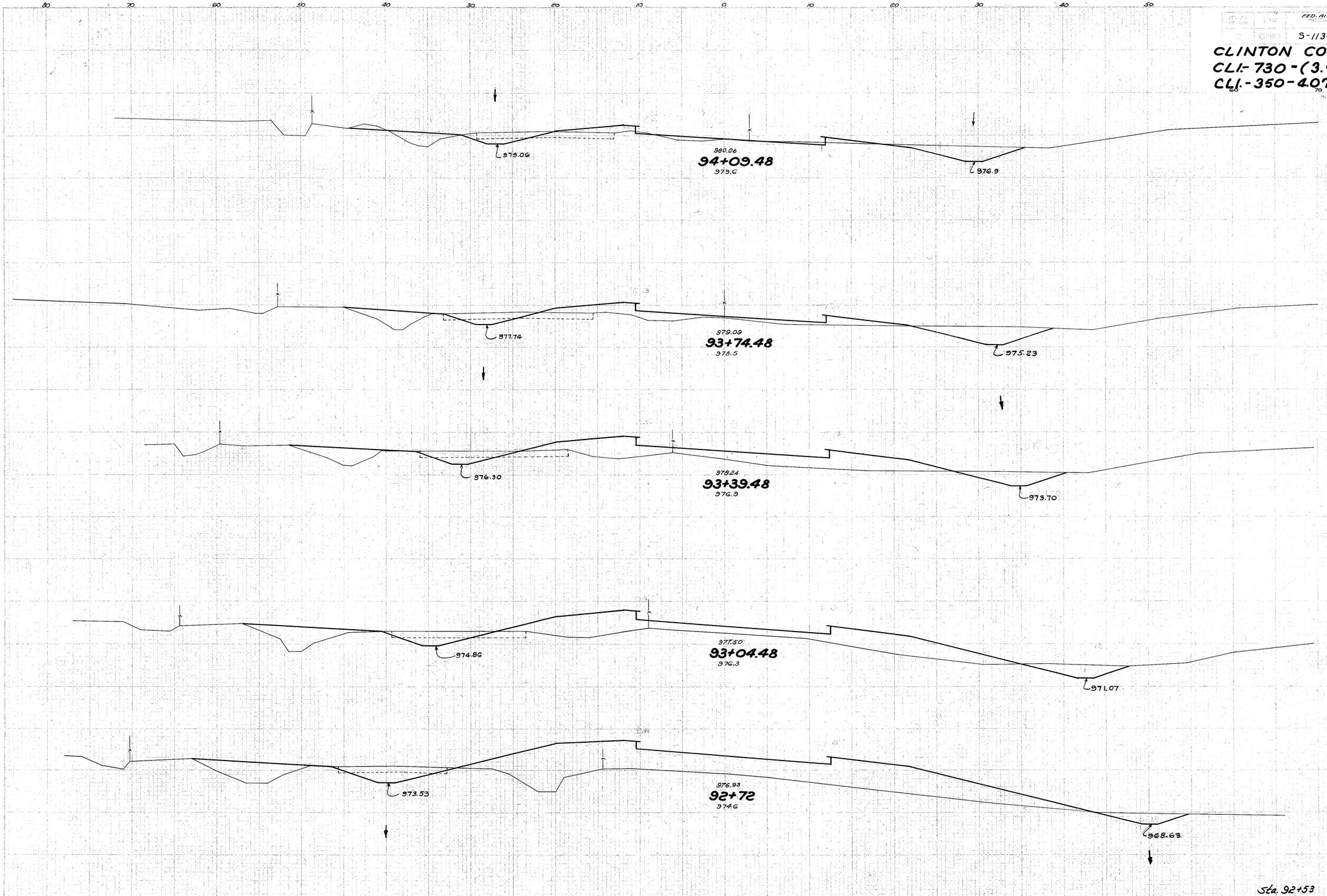
END AREA		VOLUME	
CUT	FILL	CUT	FILL
39	442		
		35	460
31	504		
		32	527
36	590		
		27	511
31	665		
		27	733
22	748		

STA. 91+78 — STA. 92+53

FED. AID S-1133(1) POST WAR

54
121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07

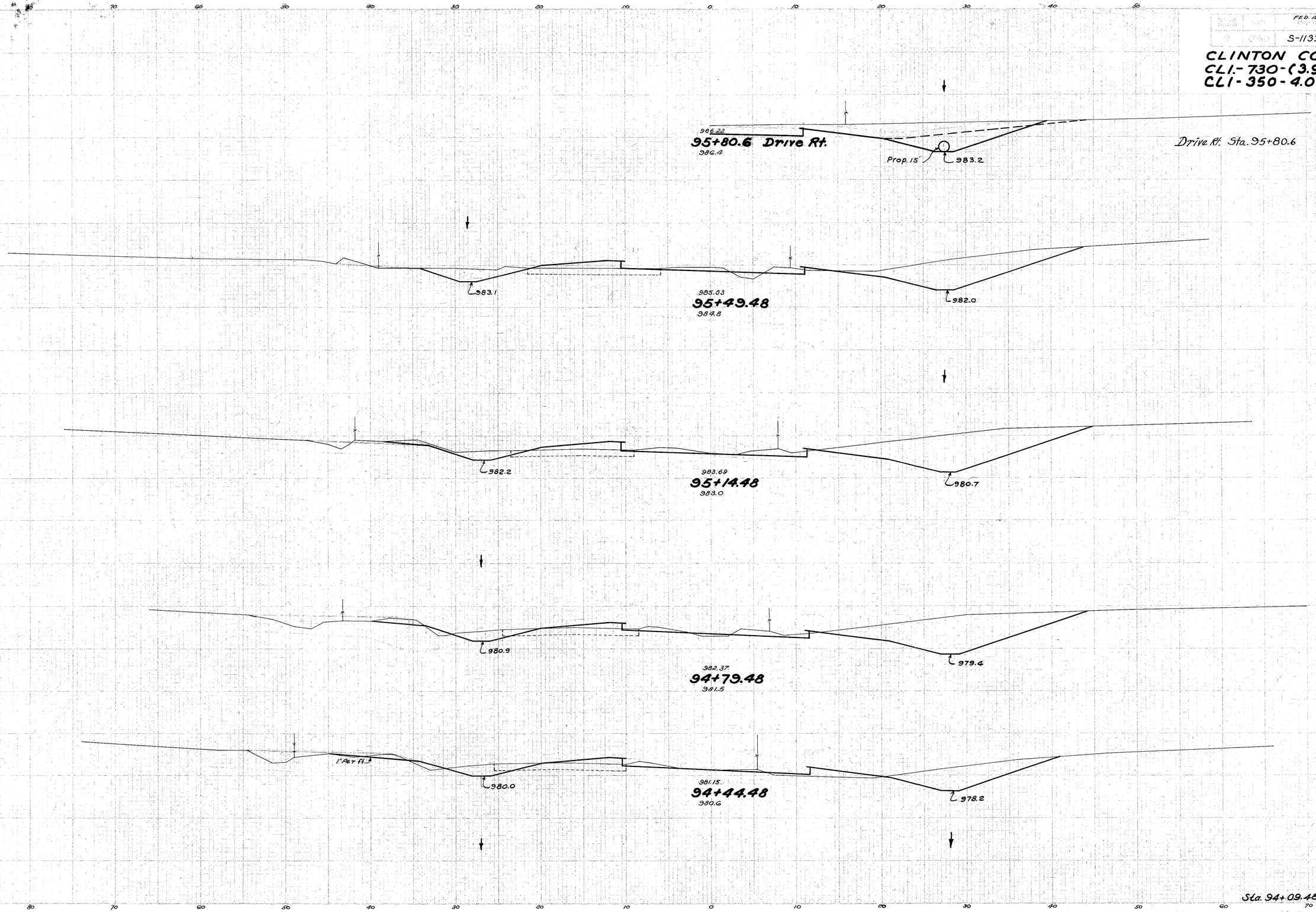


END AREA		VOLUME	
CUT	FILL	CUT	FILL
39	25		
		50	45
38	45		
		44	84
30	85		
		39	128
30	112		
		34	192
27	207		
		23	228
39	442		

FED. AID S-1133(1) POST WAR

55
121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI-350-4.07



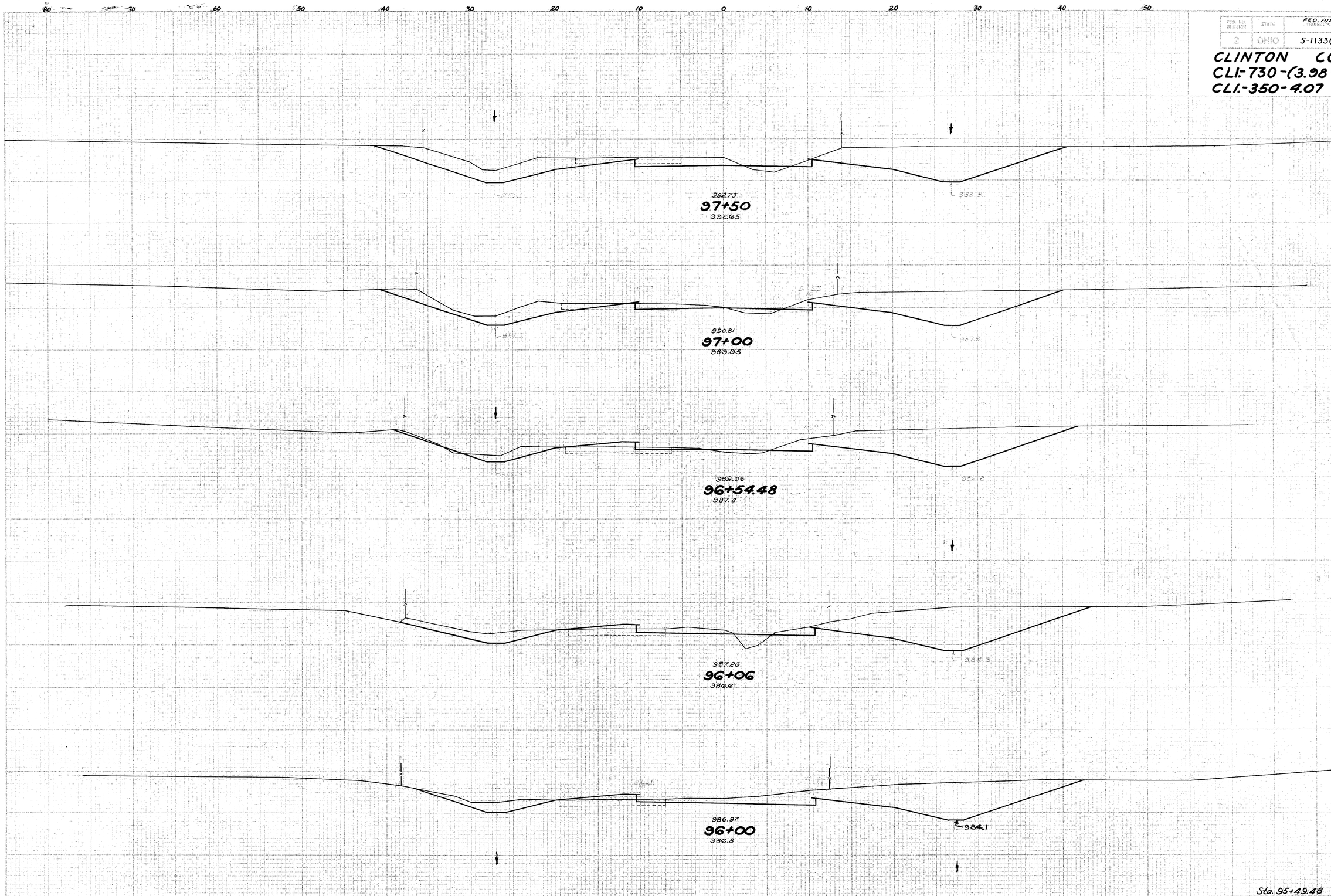
END AREA		VOLUME	
CUT	FILL	CUT	FILL
			T
83	19		
		122	28
105	19		
		135	25
103	19		
		104	29
58	25		
		63	32
39	25		

STA. 94+44.48 to STA. 95+80.6

FED. ROAD DIVISION NO.	STATE	FED. AID PROJECT NO.	TYPE FUNDS
5	OHIO	S-1133(1)	POST WAR

56
121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07



END AREA		VOLUME	
CUT	FILL	CUT	FILL
130	3		
		220	8
108	6		
		178	16
103	13		
		206	24
126	14		
		27	3
121	12		
		191	29
83	19		

Sta. 95+49.48

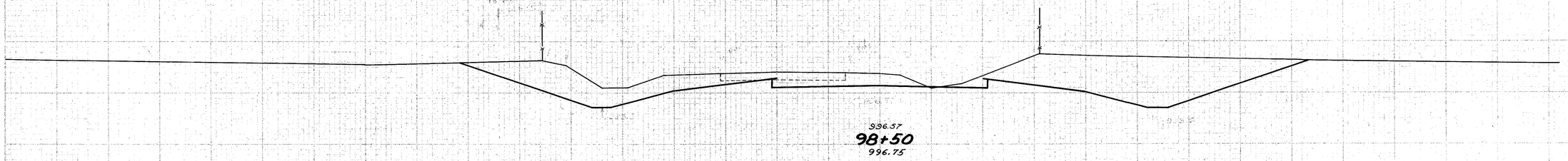
STA. 96+00 – STA. 97+50

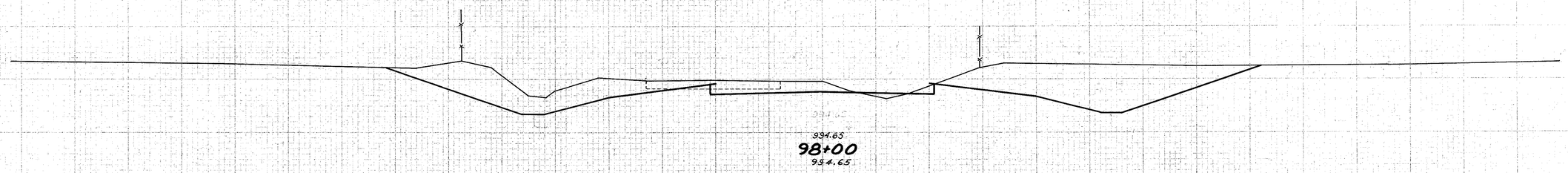
CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07











END AREA		VOLUME	
CUT	FILL	CUT	FILL
146	1		
		282	1
158	0		
		290	0
155	0		
		300	0
169	0		
		296	1
152	2		
		261	5
130	3		

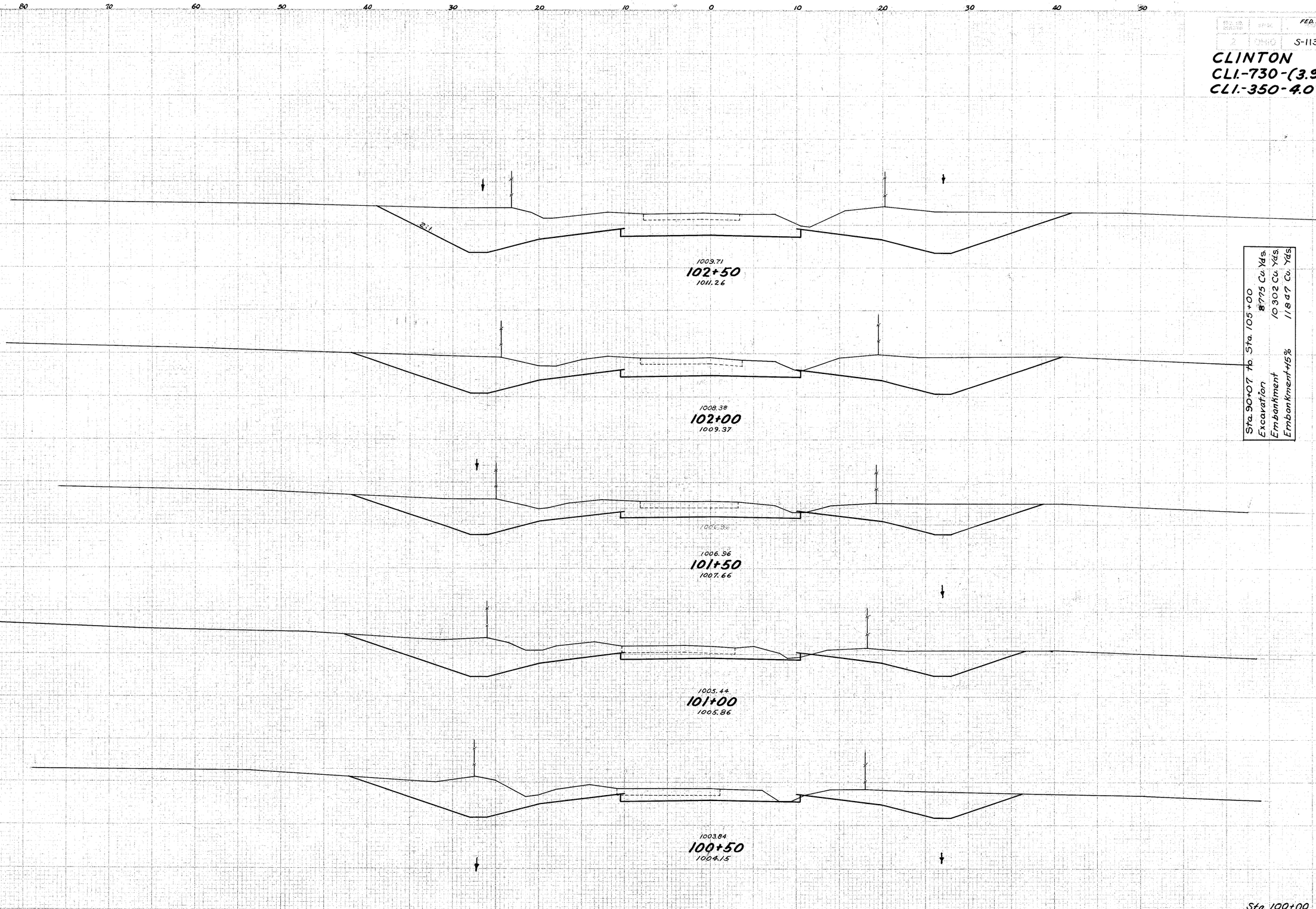
Sta. 97+50

STA. 98+00 - STA. 100+00

FED. AID S-1133(1) POST WAR

58
121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07



Sta. 90+07 to Sta. 105+00
Excavation 8775 Cu. Yds.
Embankment 10302 Cu. Yds.
Embankment+15% 11847 Cu. Yds.

END AREA		VOLUME	
CUT	FILL	CUT	FILL
235	0		
		393	0
189	0		
		326	0
163	0		
		287	0
147	0		
		264	0
138	0		
		263	1
146	1		

Sta. 100+00

STA. 100+50 - STA. 102+50

SHT. NO.	STATE	FED. AID	SHTS.
21	OHIO	S-1133(1)	POST WAR

59
121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI.-350-4.07

END AREA		VOLUME	
CUT	FILL	CUT	FILL
489	0		
		822	0
466	0		
874	0		
426	0		
912	0		
Dr. Std. 103+38.5 Lt.		197	
375	0		
478	0		
295	0		
		491	0
Sta. 102+50			
235	0		

105+00

2:1

1015.00
105+00
1020.3

6"-I-17-3 width

Ft. 1001.18
Prop. 12" Pipe

1014.18
104+53.5
1018.87

1013.16
104+00
1017.29

Ft. 1008.84
Prop. 15" Pipe

1011.84
103+38.5 Dr. Lt.
1015.22

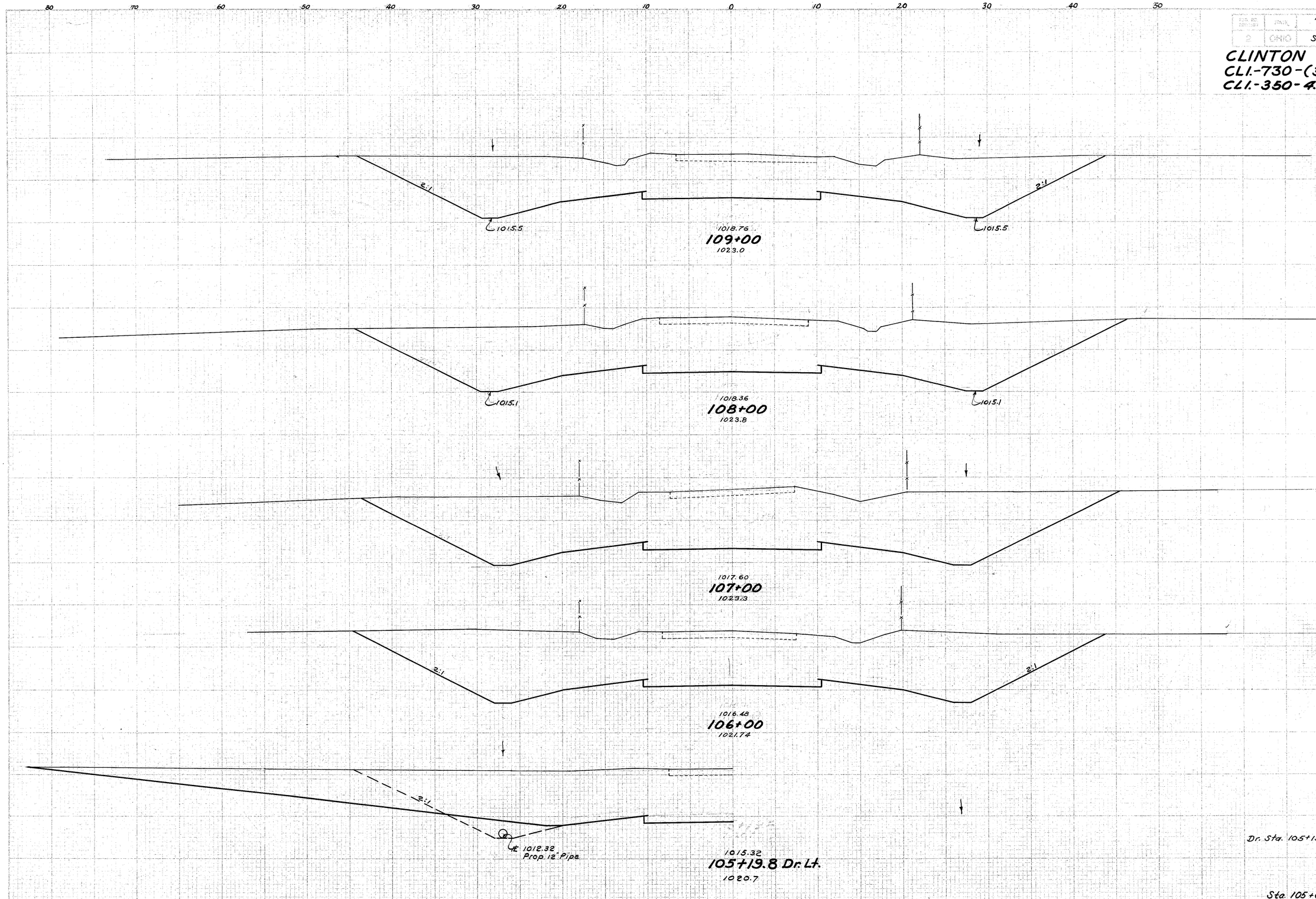
2:1

1010.95
103+00
1013.42

STA. 103+00 - STA. 105+00

FED. RT.	STATE	FED. AID	TYPE WORK	60
2	OHIO	S-1133(1)	POST WAR	121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07



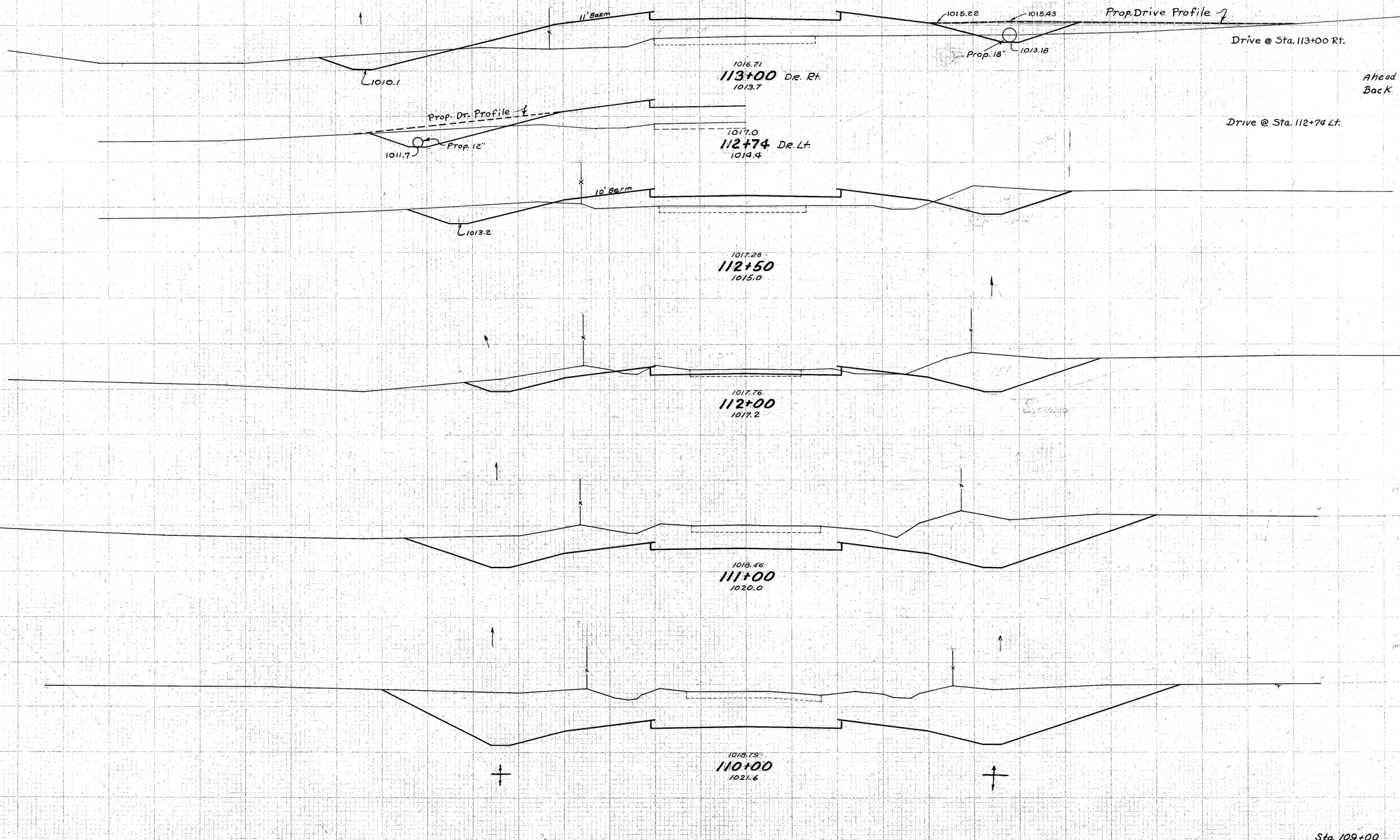
	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	420	0		
			1709	0
	503	0		
			1915	0
	531	0		
			1919	0
	505	0		
			1841	0
Dr. Sta. 105+19.8 Lt.			91	0
Sta. 105+00	489	0		

STA. 105+19.8 - STA. 109+00

FED. AID S-1133(1) POST WAR

61
121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLJ.-350-4.07



Sta.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
				18
Drive @ Sta. 113+00 Rt.				
Ahead	14	111		
Back	34	111		
Drive @ Sta. 112+74 Lt.				7
			76	148
	49	49		
			120	50
	81	5		
			563	9
	223	0		
			1032	0
	334	0		
			1396	0
Sta. 109+00	420	0		

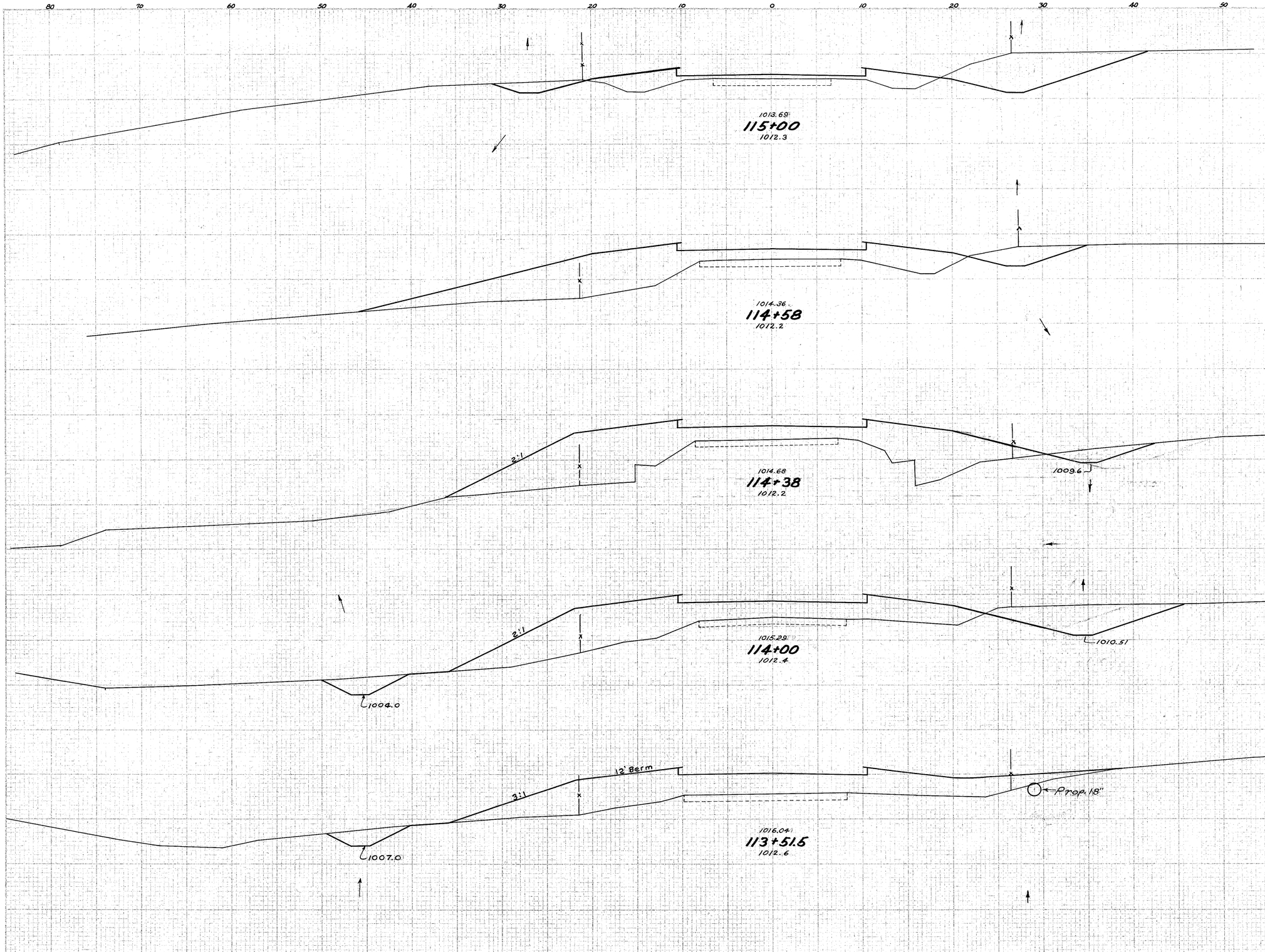
STA. 110+00 = STA. 113+00

FED. AID S-1133(1) POST WAR

62
121

CLINTON COUNTY
CLI.- 730-(3.98-4.14)
CLI.- 350-4.07

END AREA		VOLUME	
CUT	FILL	CUT	FILL
66	37		
		66	145
18	150		
		76	131
11	204		
		44	255
51	158		
		55	280
10	160		
		23	259
14	111		



STA. 113+51.5 - STA. 115+00

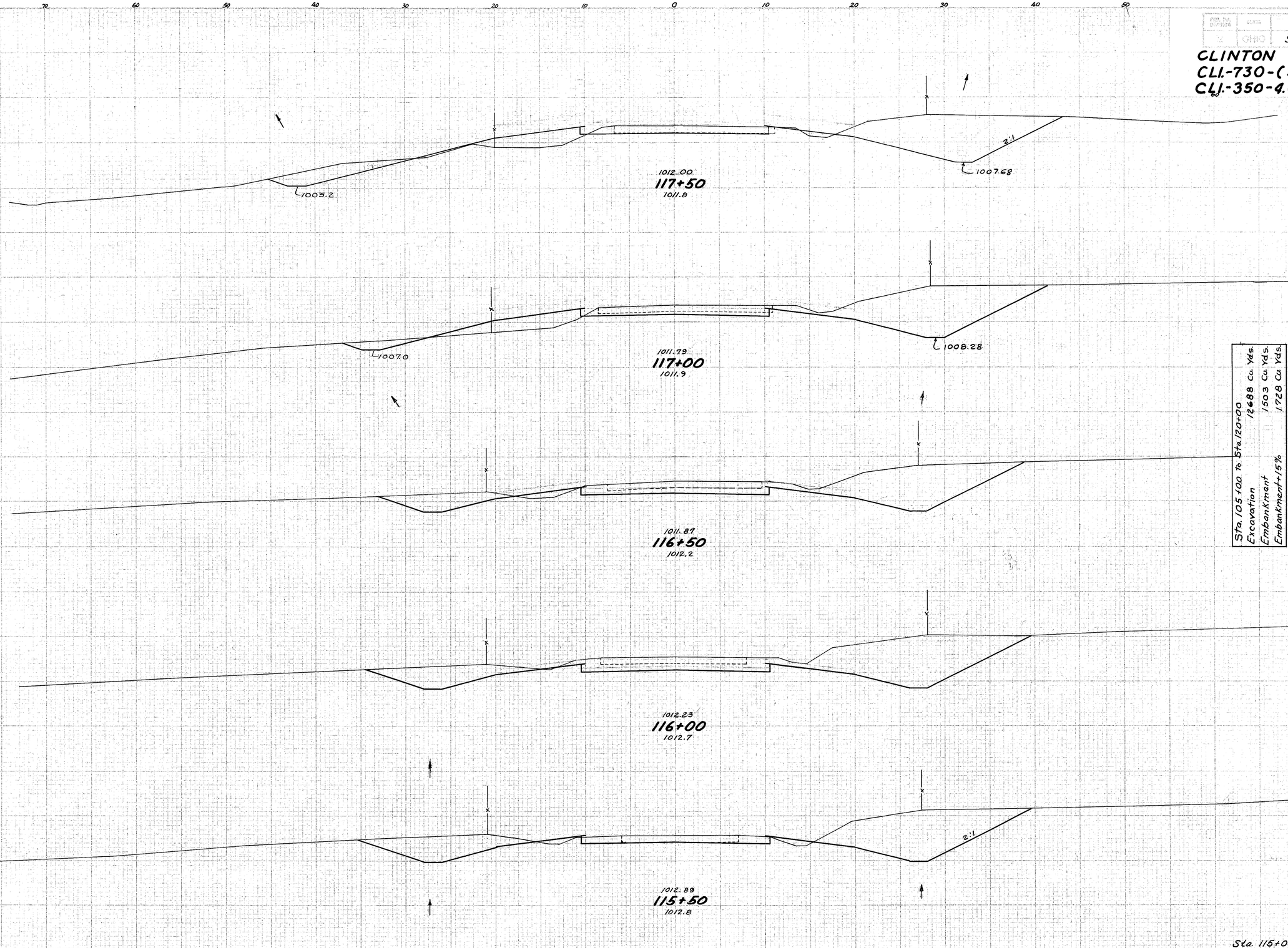
FED. AID

S-1133(1) POST WAR

63
121

CLINTON COUNTY

CLI-730-(3.98-4.14
CLJ-350-4.07%



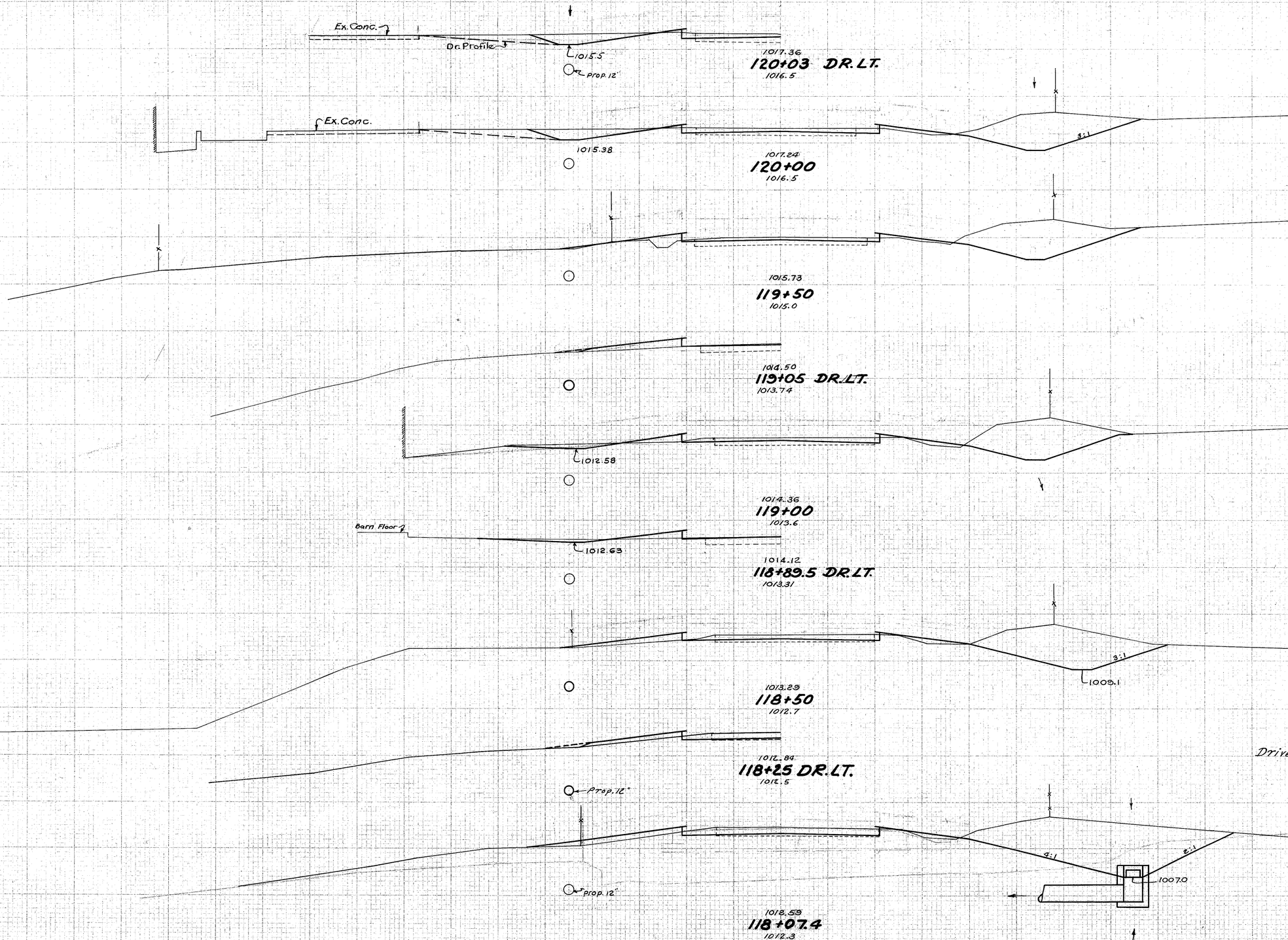
END AREA		VOLUME	
CUT	FILL	CUT	FILL
117	21		
		210	40
110	22		
		213	23
120	3		
		256	3
156	0		
		261	4
126	4		
		178	38
66	37		

Sta. 115+00

Sta. 105+00 to Sta. 120+00
12688 Cu. Yds.
Excavation
1503 Cu. Yds.
Embankment
1728 Cu. Yds.
Embankment+15%

STA. 115+50 - STA. 117+50

CLINTON COUNTY
CLI.-730-(3.98-4.14
CLI.-350-4.07



Drive Lt. Sta. 120+03

Drive Lt. Sta. 119+05

Drive Lt Sta 118+89.5

Drive Lt. 118+25

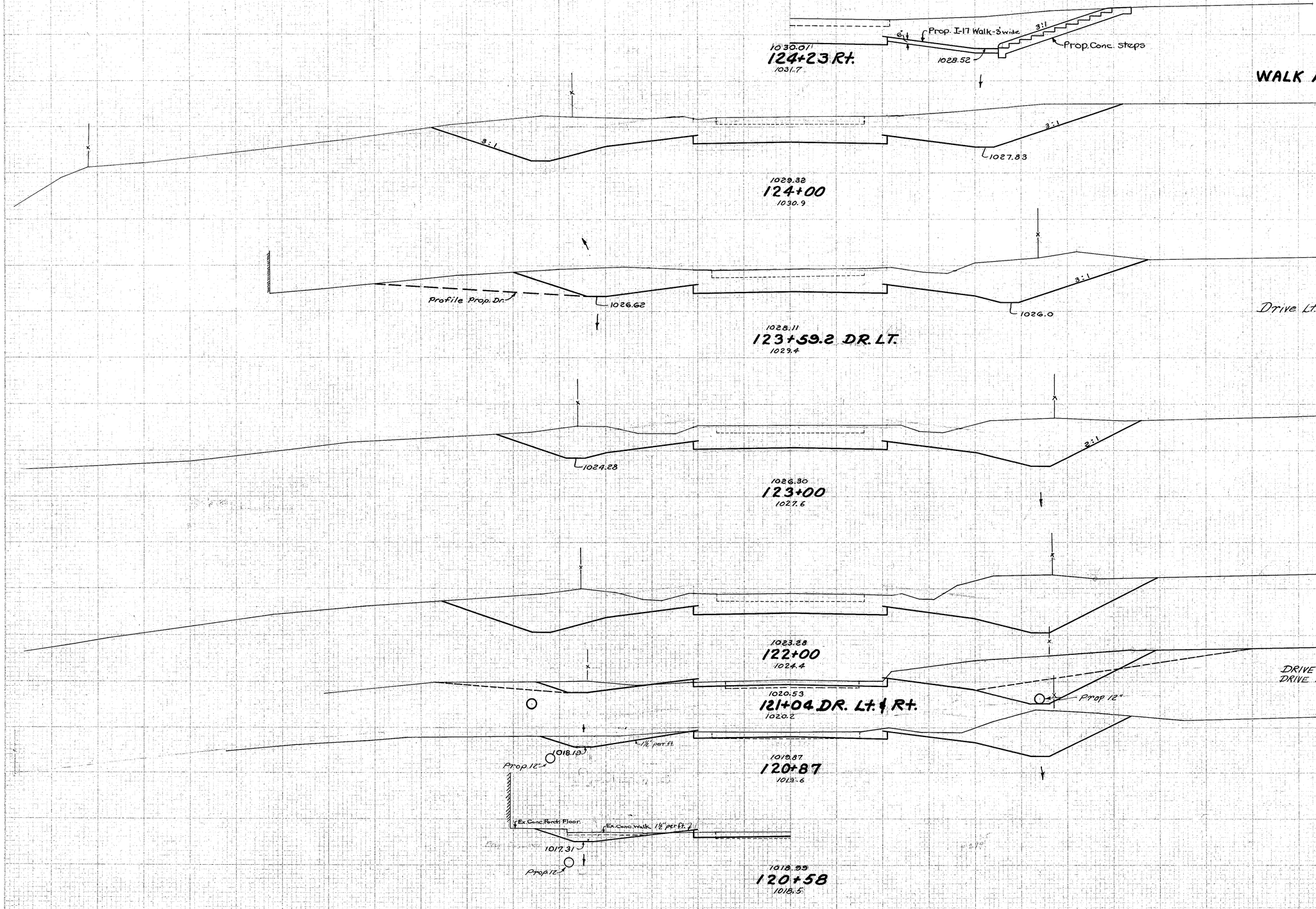
Sta. 117+50

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
Drive Lt. Sta. 120+03				14
120+00	59	3		
			103	9
	52	7		
Drive Lt. Sta. 119+05			1	1
			99	12
	55	6		
Drive Lt Sta 118+89.5				3
			114	15
	68	10		
Drive Lt. 118+25			1	1
			148	16
	119	10		
			251	33
Sta. 117+50	117	21		

STA. 118+07.4 - STA. 120+03

STATE	COUNTY	FED. AID	TYPE	SHEET NO.	TOTAL SHEETS
IOWA	CLINTON	S-1133(1)	POST WAR	65	121

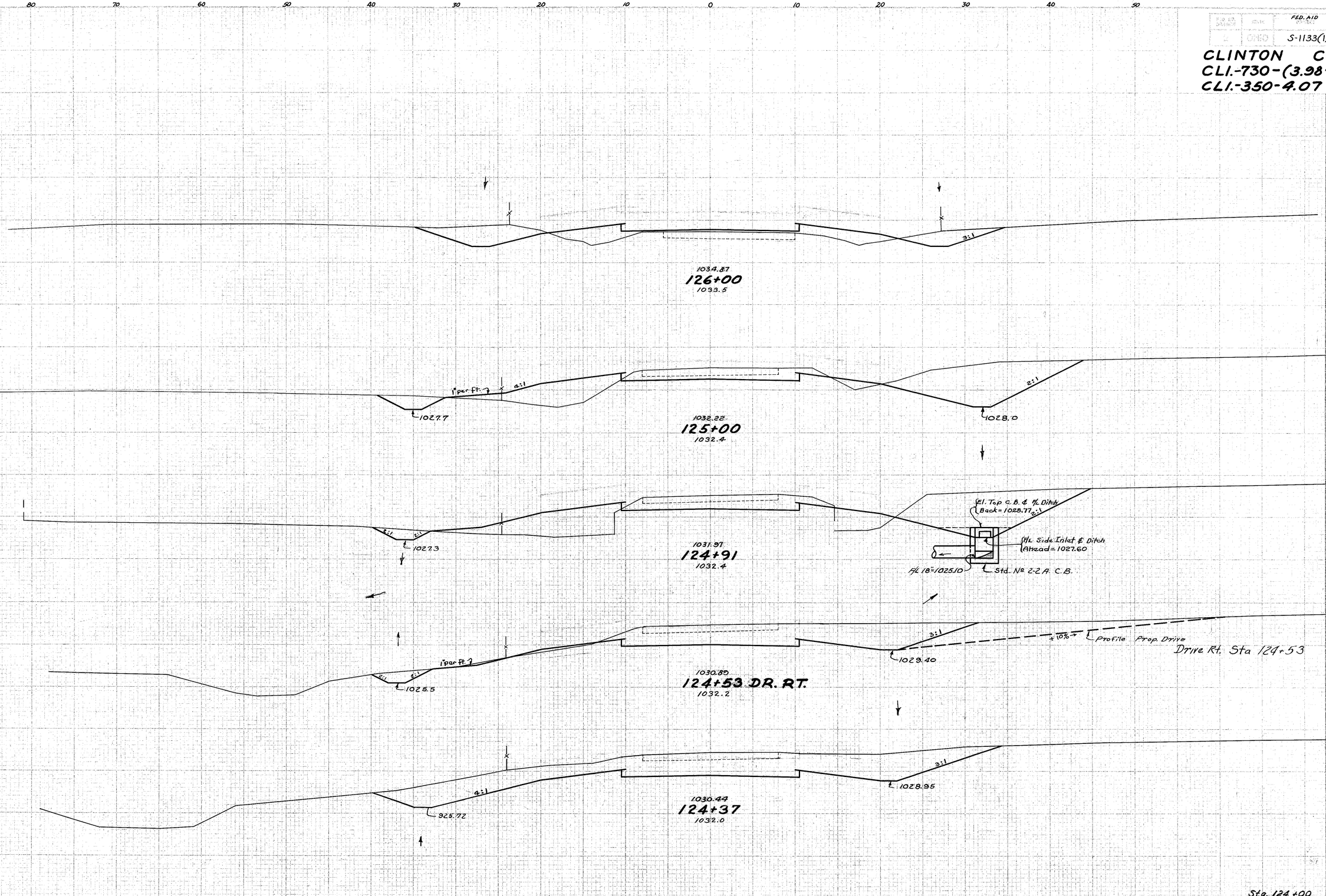
CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07



	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
WALK Rt. Sta. 124+23			1	
	216	0		
			295	0
Drive Lt. Sta. 123+59.2			24	
	175	0		
	382	0		
	173	0		
			709	0
	210	0	12	
DRIVE Rt. Sta. 121+04 DRIVE Lt. Sta. 121+04			7	
			72	0
	88	0		
			237	55
Sta. 120+00	59	3		

STA. 120+58 - STA. 124+23

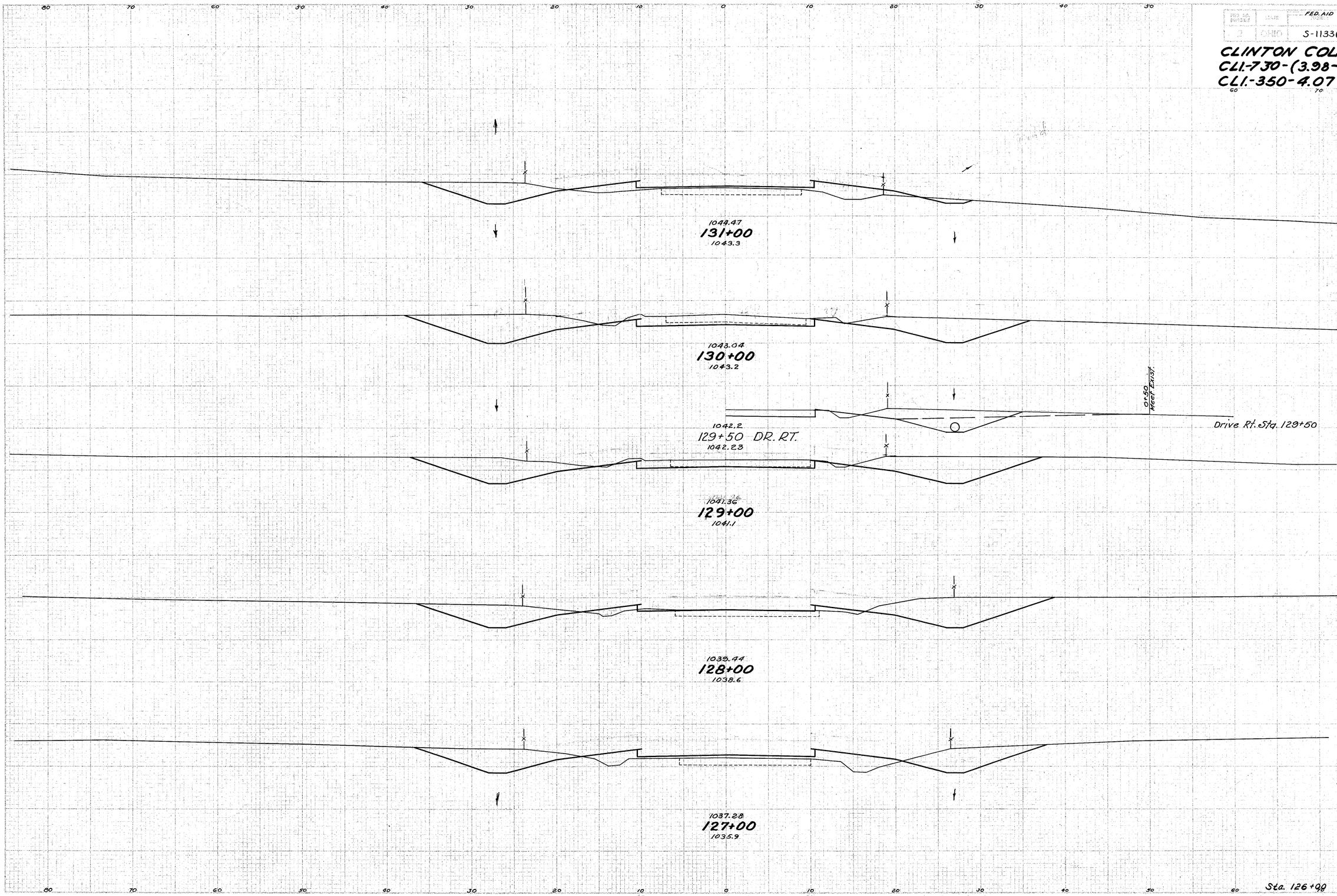
CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07



END AREA		VOLUME	
CUT	FILL	CUT	FILL
37	34		
		272	111
110	26		
		38	15
120	64		
		159	47
		106	36
106	3		
		80	0
		165	0
		261	0
		216	0

PROJECT NO.	STATE	FED. AID	TYPE
2	OHIO	S-1133(1)	POST WAR

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07



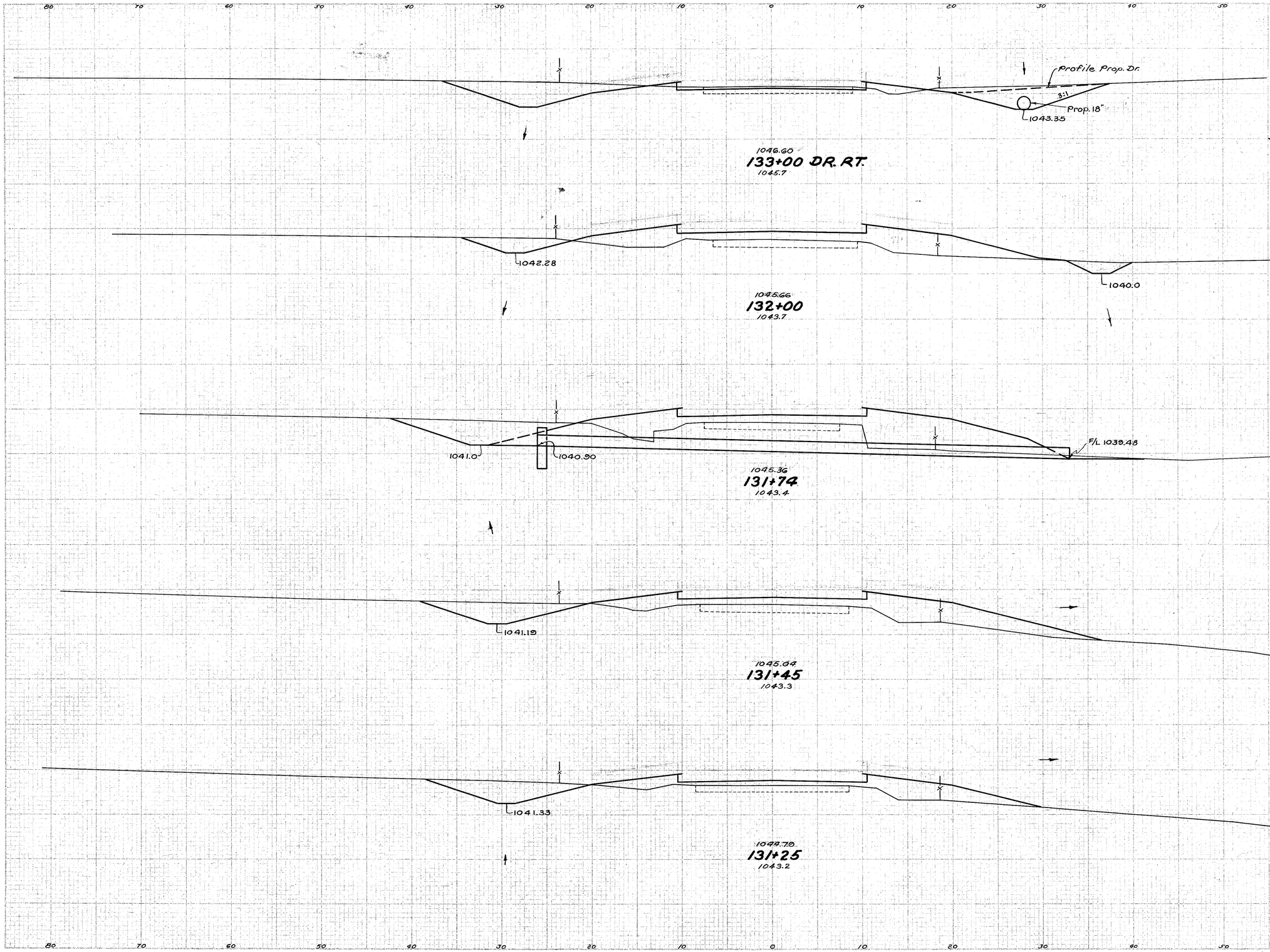
END AREA		VOLUME	
CUT	FILL	CUT	FILL
✓ 30	✓ 23		
		256	44
108	1		
		374	4
		5	
94	1		
		317	17
77	8		
		246	61
56	25		
		172	109
37	34		

Sta. 127+00 to Sta. 131+00

FED. AID			
2	IOWA	S-1133(1)	POST WAR

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07

Drive Rt. Sta. 133+00

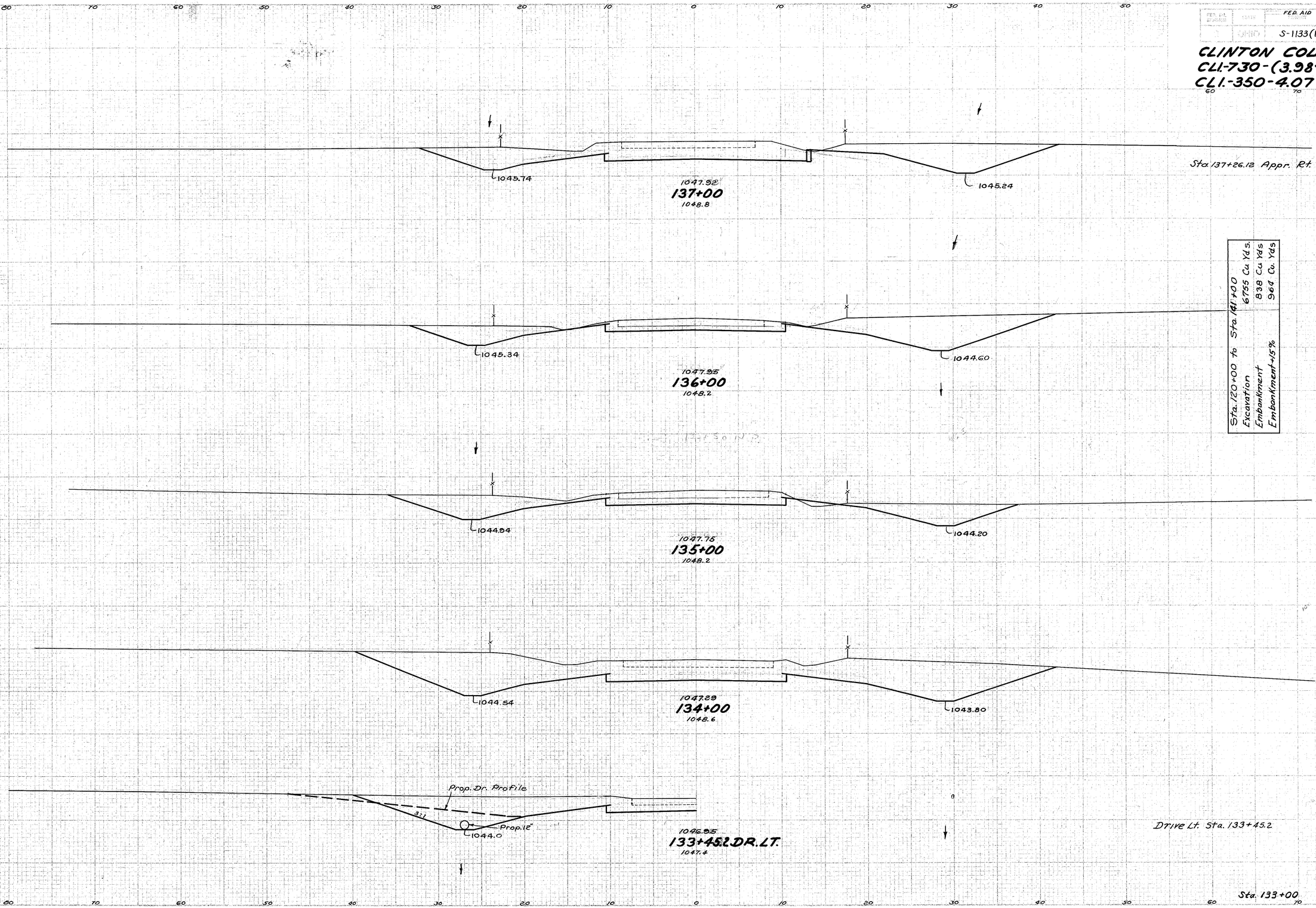


END AREA		VOLUME	
CUT	FILL	CUT	FILL
		6	
60	6		
		144	143
18	71		
		25	84
33	104		
		31	95
25	73		
		18	44
24	47		
		25	38
30	23		

FED. AID | STATE | COUNTY | FED. AID
S-1133(1) | POST WAR

69
121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07



Sta. 120+00 to Sta. 141+00
Excavation 6755 Cu Yds.
Embankment 838 Cu Yds
Embankment +15% 964 Cu. Yds

Sta.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta 137+26.12 Appr. Rt.			231	4
	131	0		
			456	0
	115	0		
			393	6
	37	3		
			570	6
	211	0		
			502	11
Drive Lt. Sta. 133+45.2			8	
Sta. 133+00	60	6		

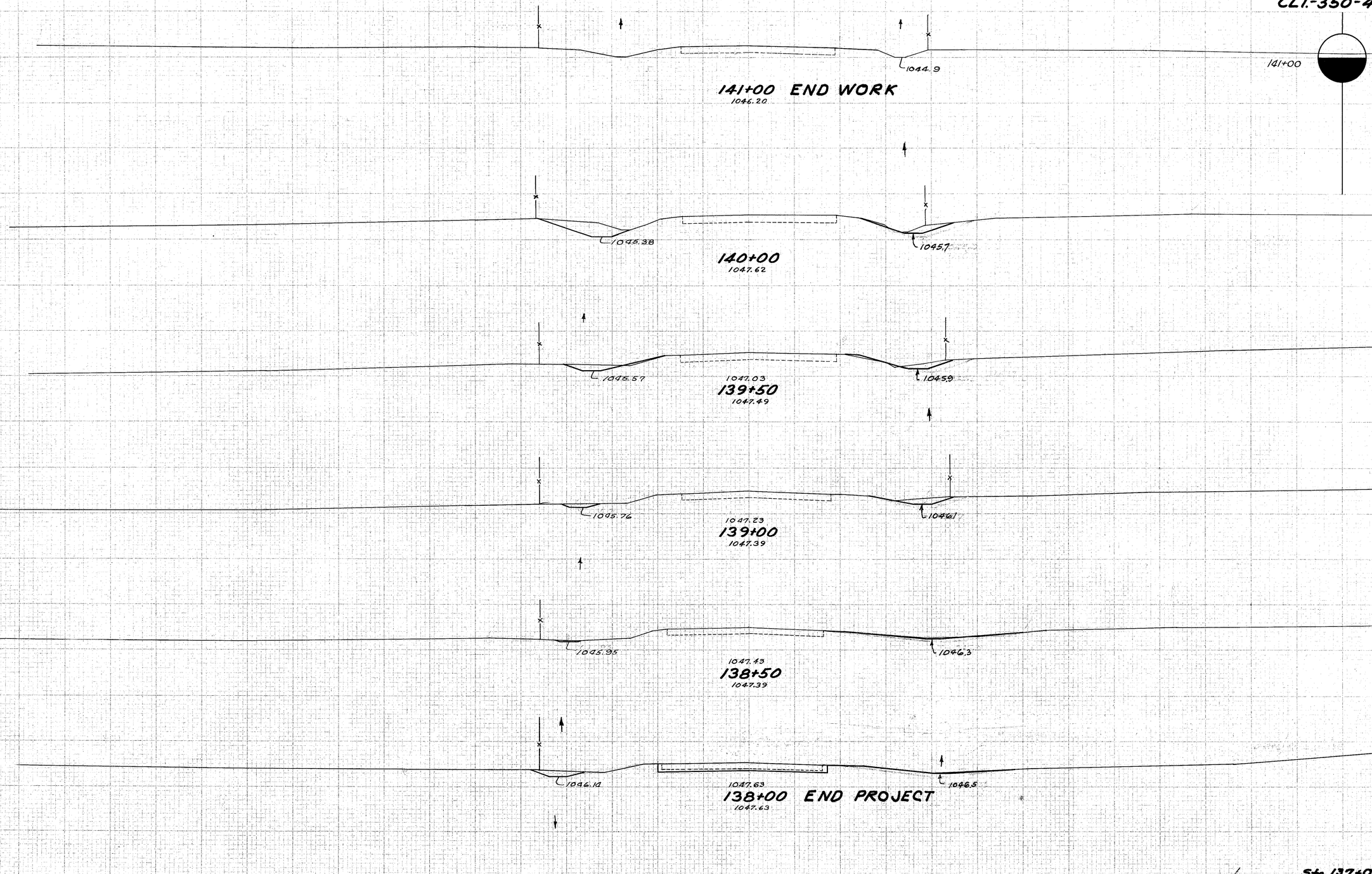
Sta. 133+45.2 to Sta. 137+00

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50

FED AID S-1133(1) POST WAR

70
121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0		
		28	0
15	0		
		23	0
10	0		
		16	0
7	0		
		8	0
2	0		
		21	0
21	0		
		281	0
131	0		

Sta 137+00
Sta 138+00 to Sta 141+00

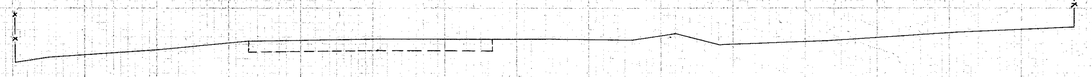
80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

FED. AID PROJECT S-1133 (1) POST WAR

71
121

CLINTON COUNTY
CLI.-730 - (398 - 4.14)
CLI-350 - 4.07

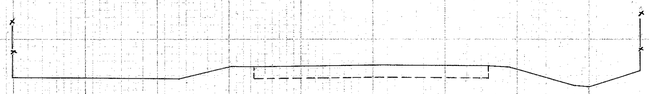
END AREA		VOLUME	
CUT	FILL	CUT	FILL



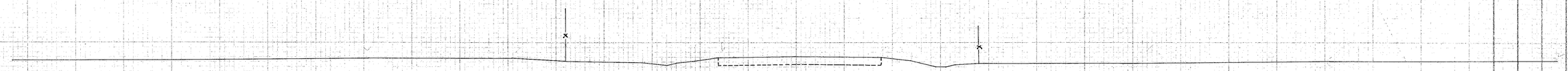
145+00
1042.93



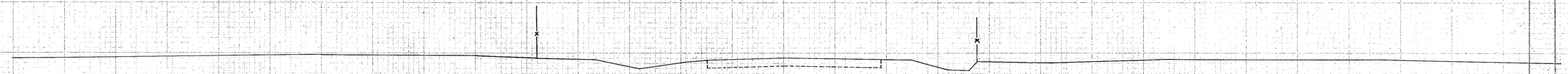
144+91.5 DR. RT.
1043.07



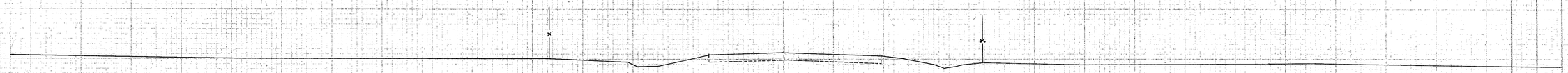
144+50
1043.22



144+00
1043.50



143+00
1044.52



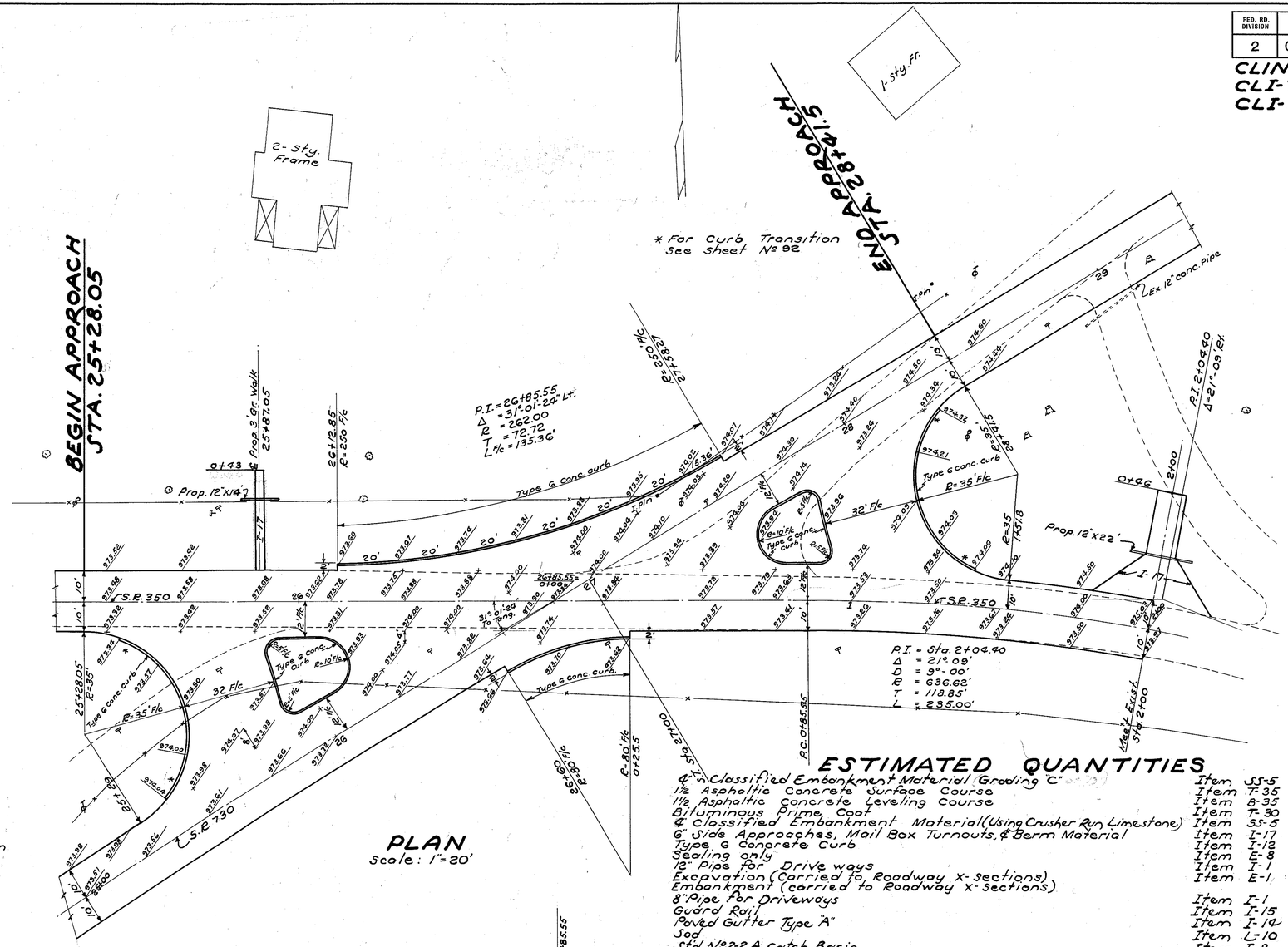
142+00
1045.48

STA. 142+00 – STA. 145+00

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133 (1)	POST WAR

72
121

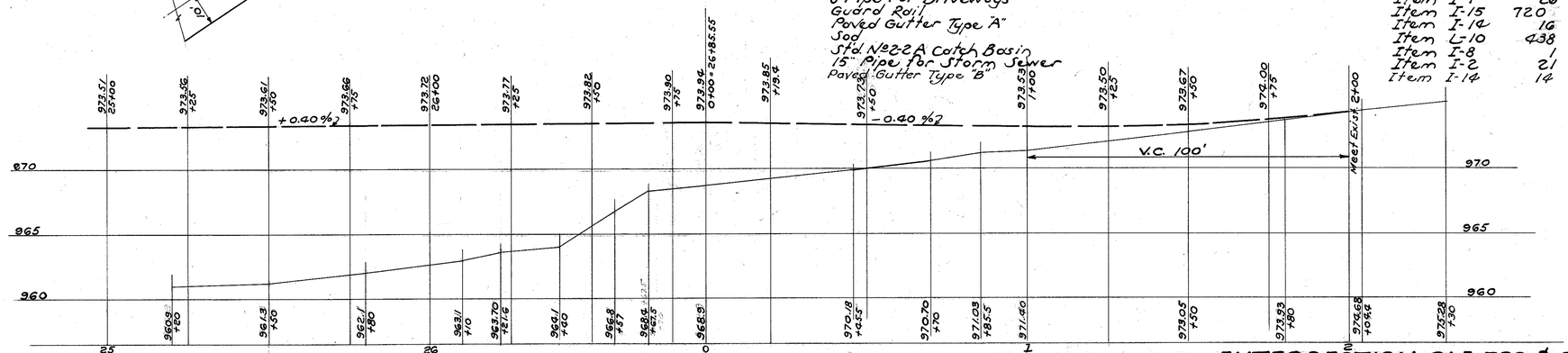
CLINTON COUNTY
CLI-730 - (3.98 - 4.14)
CLI-350 - 4.07



PLAN
Scale: 1"=20'

ESTIMATED QUANTITIES

4" Classified Embankment Material/ Grading "C"	Item SS-5	3761	Sq. Yds.
1½ Asphaltic Concrete Surface Course	Item F-35	3563	Sq. Yds.
1½ Asphaltic Concrete Leveling Course	Item B-35	3563	Sq. Yds.
Bituminous Prime Coat	Item F-30	3761	Sq. Yds.
4" Classified Embankment Material (Using Crusher Run Limestone)	Item SS-5	3761	Sq. Yds.
6" Side Approaches, Mail Box Turnouts, & Berm Material	Item I-17	30	Cu. Yds.
Type 6 Concrete Curb	Item I-12	460	Lin. Ft.
Sealing only	Item E-8	460	Lin. Ft.
12" Pipe for Drive ways	Item I-1	36	Lin. Ft.
Excavation (Carried to Roadway x-sections)	Item E-1	2142	Cu. Yds.
Embankment (carried to Roadway x-sections)		13986	Cu. Yds.
8" Pipe for Driveways	Item I-1	26	Lin. Ft.
Guard Rail	Item I-15	720	Lin. Ft.
Paved Gutter Type "A"	Item I-12	16	Lin. Ft.
Sod	Item L-10	438	Sq. Yds.
Std. No 22-A Catch Basin	Item I-8	1	Each
15" Pipe for Storm Sewer	Item I-2	21	Lin. Ft.
Paved Gutter Type "B"	Item I-14	14	Lin. Ft.



PROFILE
Scale 1"=5' Vert & 1"=20' Horiz.

INTERSECTION CLI-730 & CLI-350
STA. 26+85.55

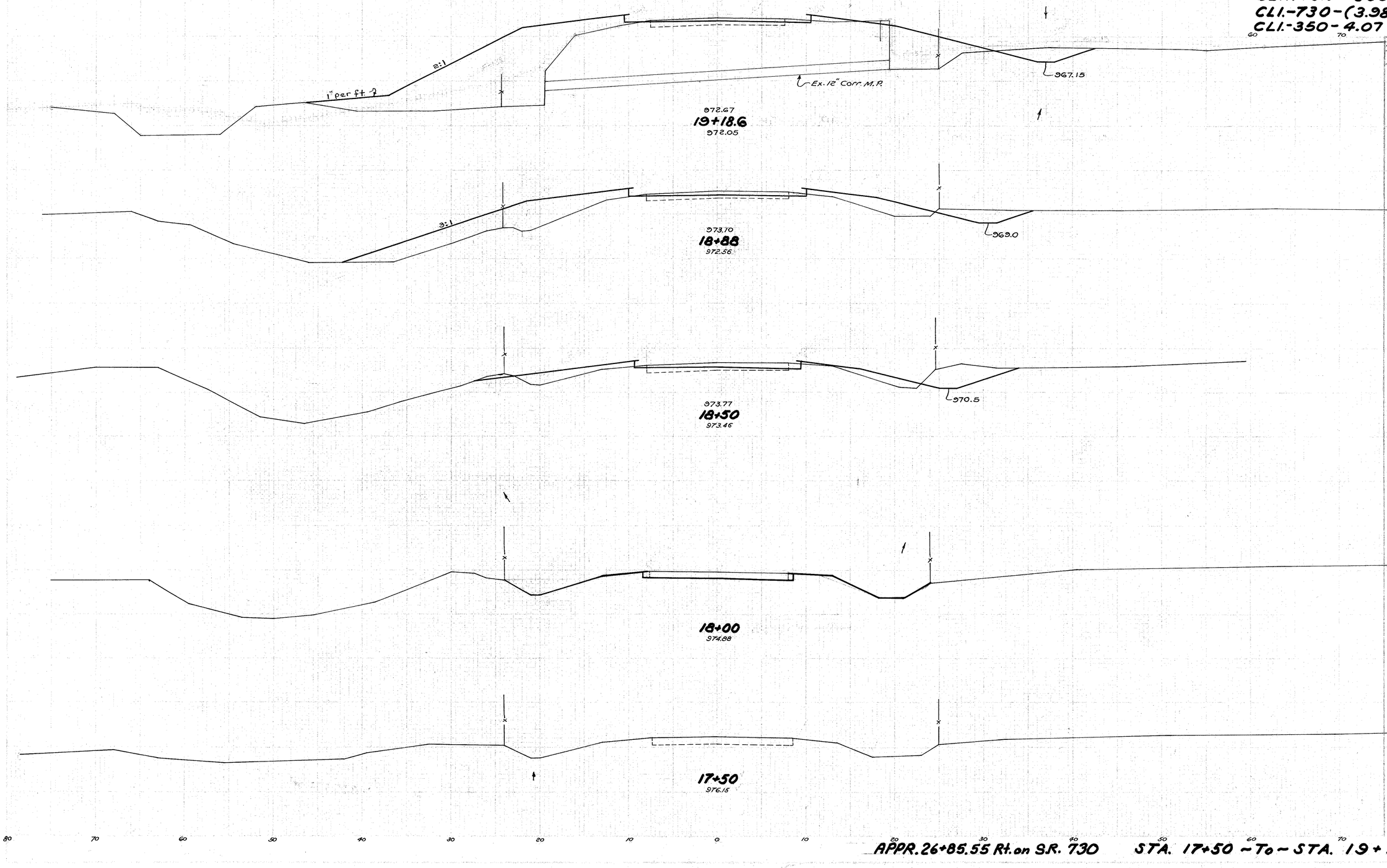
FED AID

2 S-1133(1) POST WAR 121

73

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80



	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	18	170		
			22	140
	20	77		
			34	68
	28	20		
			38	19
	13	0		

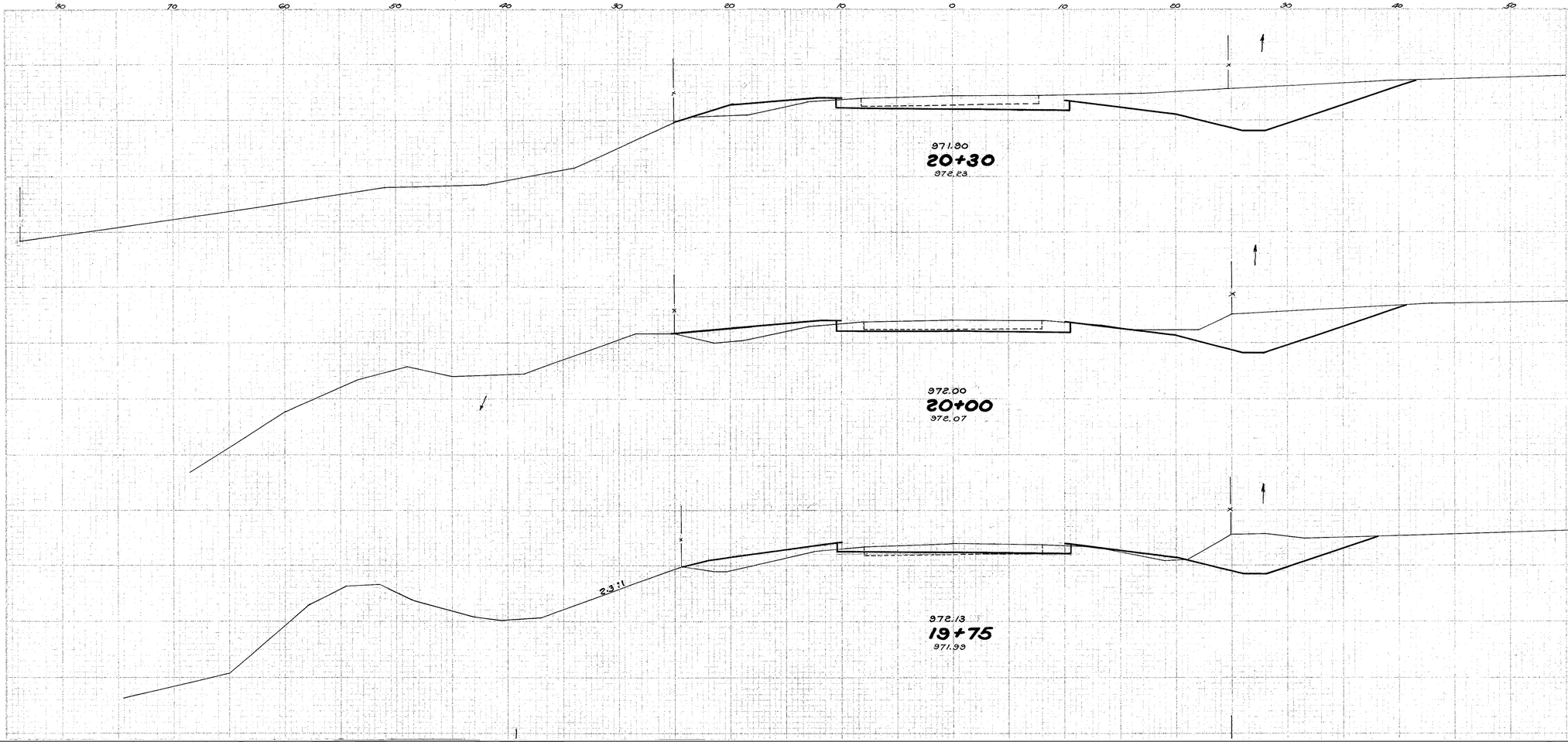
APPR. 26+85.55 Rt. on S.R. 730 STA. 17+50 ~ To ~ STA. 19+18.6

Sh. 11 of 29.

SHEET NO. DESIGNATED	STATE	FED. AID	SHEET NO. TOTAL
2	OHIO	S-1133(1)	POST WAR

74
121

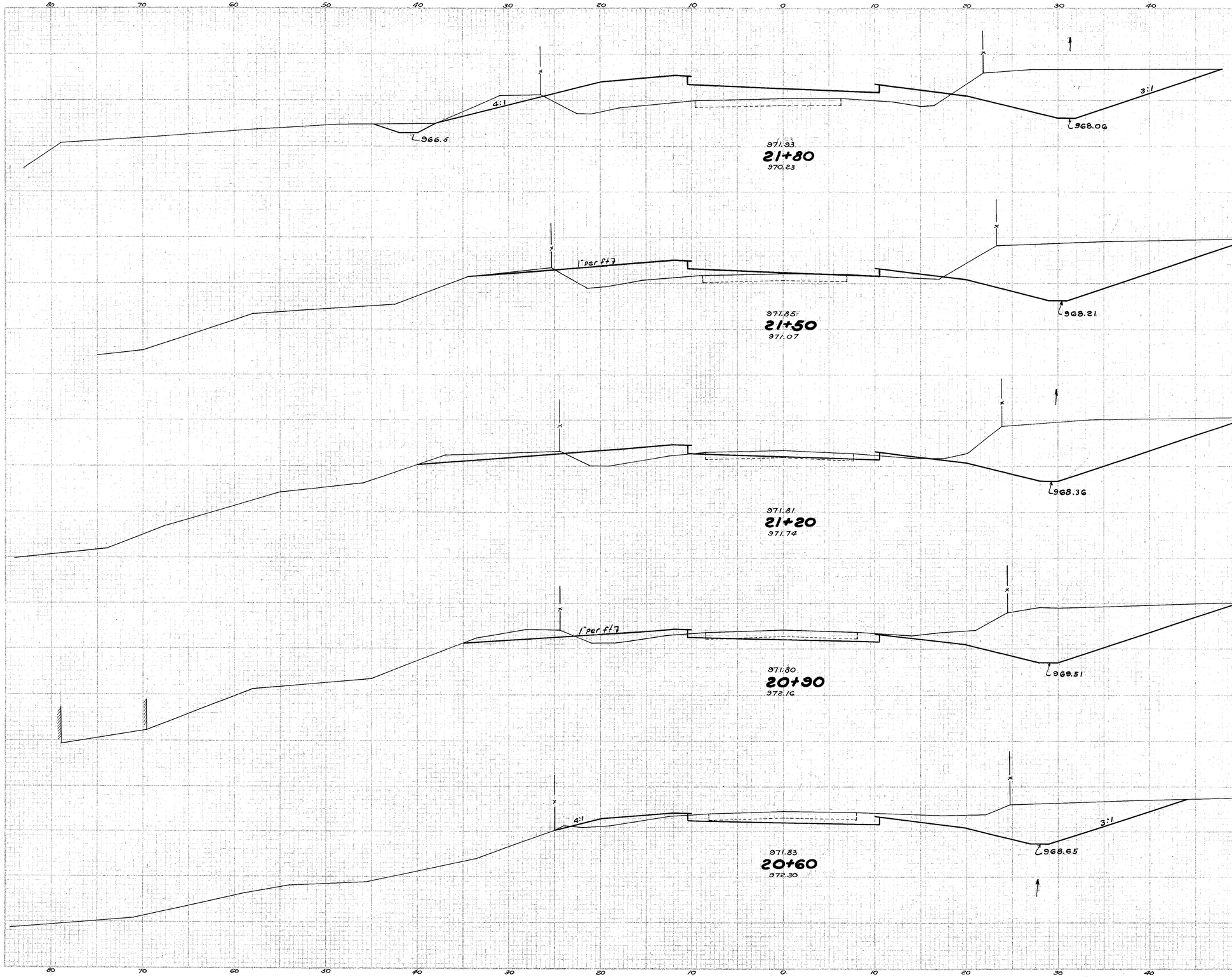
CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07



ENDAREA		VOLUME	
CUT	FILL	CUT	FILL
90	9		
		84	11
62	11		
		52	12
51	14		

DIST.	STATE	FED. AID	SHEET NO.
8	OHIO	S-1133(1) POST WAR	75 121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07



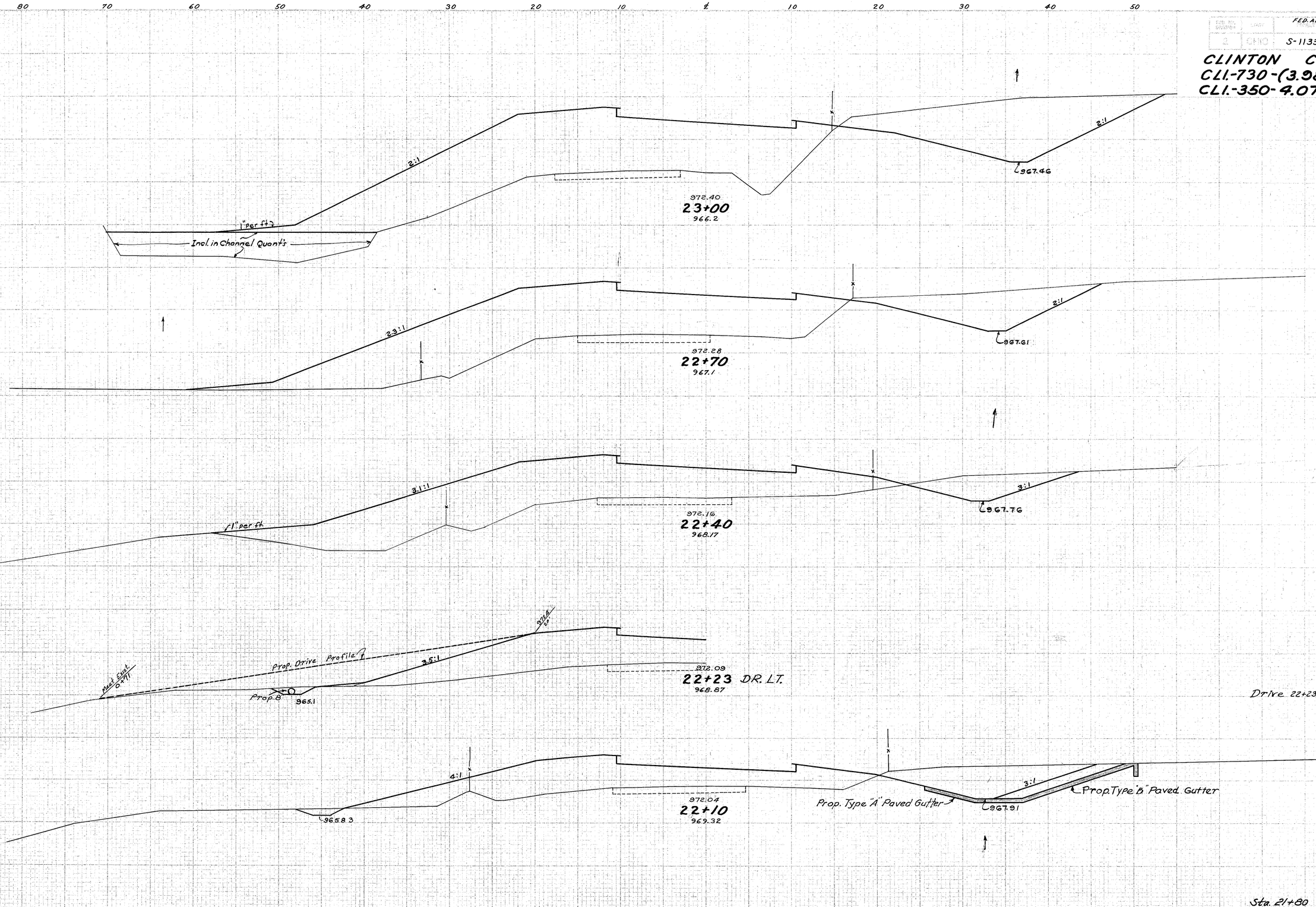
END AREA		VOLUME	
CUT	FILL	CUT	FILL
106	82		
		133	72
133	48		
		155	39
146	23		
		159	18
141	10		
		132	9
96	7		
		103	9
90	9		

APPR. 26+85.55 Rt on S.R. 730 STA. 20+60 to STA. 21+80

FED. AID PROJECT NO.	STATE	FED. AID	TYPE OF WORK	76
2	OHIO	S-1133(1)	POST WAR	121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
154	418		
		125	422
71	342		
		59	354
36	296		
		51	249
			47
56	152		
		90	130
106	82		

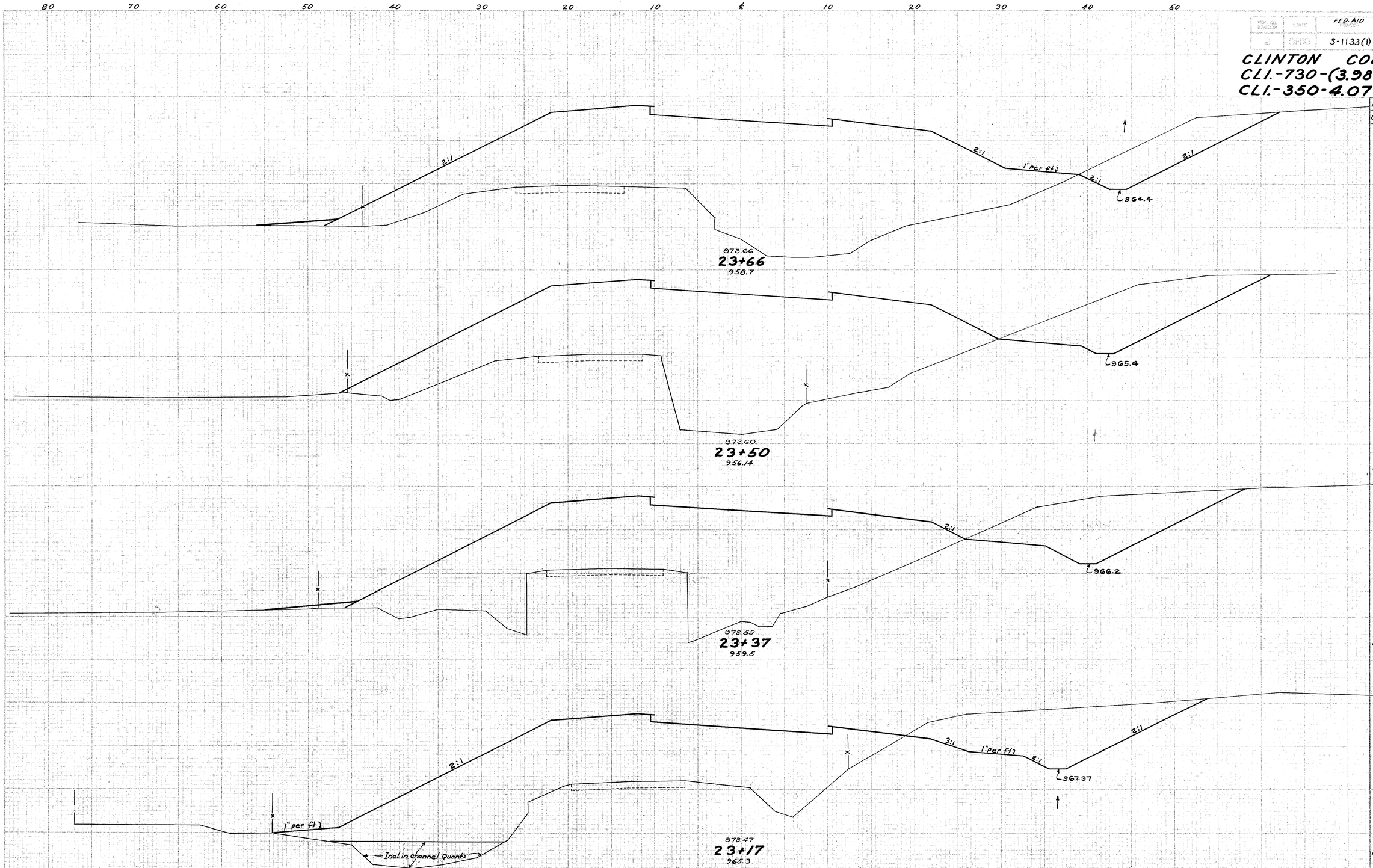


Appr. 26+85.55 Lt. on SR 730 STA. 22+40 = To = STA. 22+00

FED. DIV.	STATE	FED. AID PROJECT	TYPE OF WORK
5	OHIO	S-1133(1)	POST WAR

77
121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07

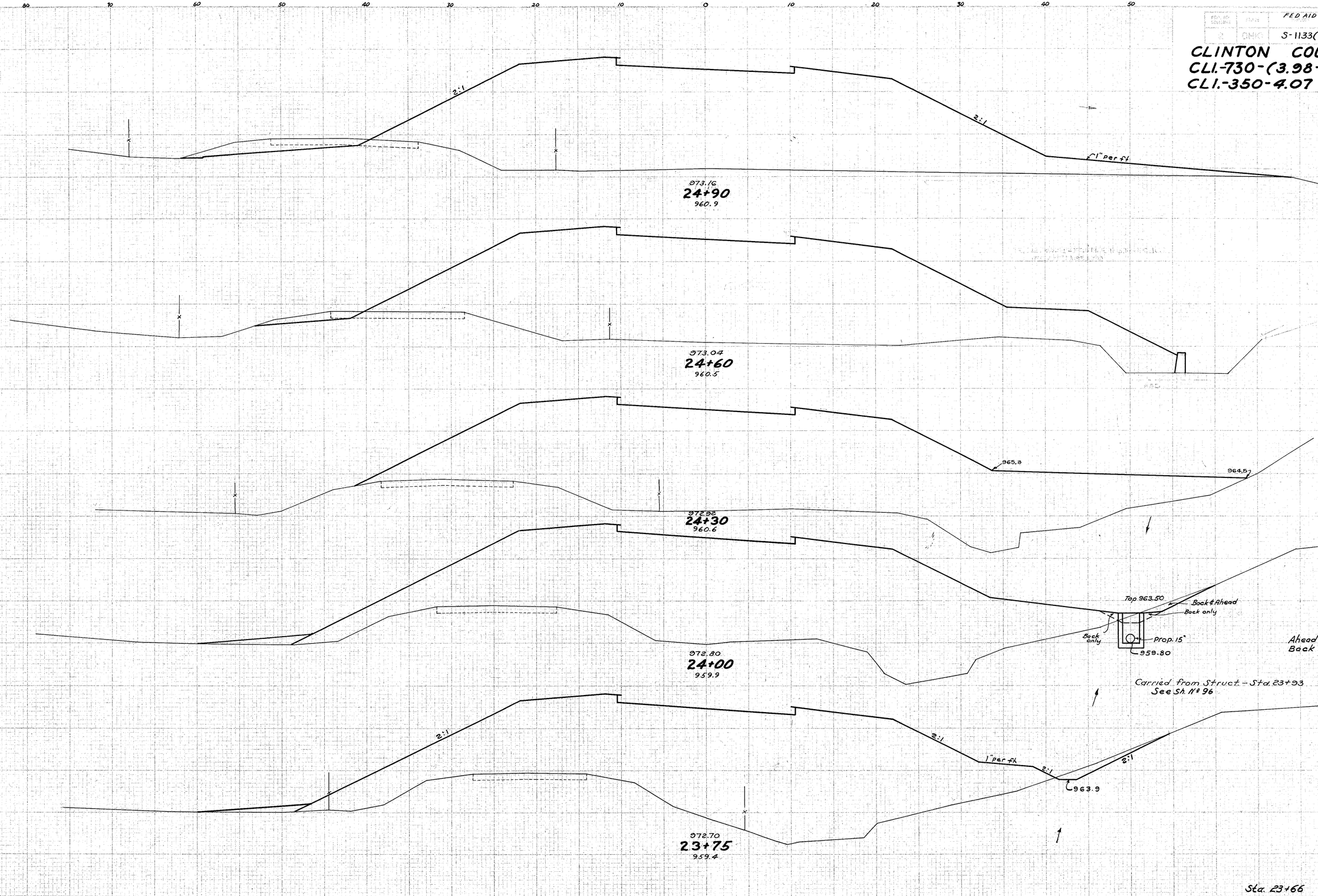


END AREA		VOLUME	
CUT	FILL	CUT	FILL
	69		707
			54
			402
	115		651
			58
			293
	126		564
			97
			376
	135		452

FED AID S-1133(1) POST WAR

78 / 121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07

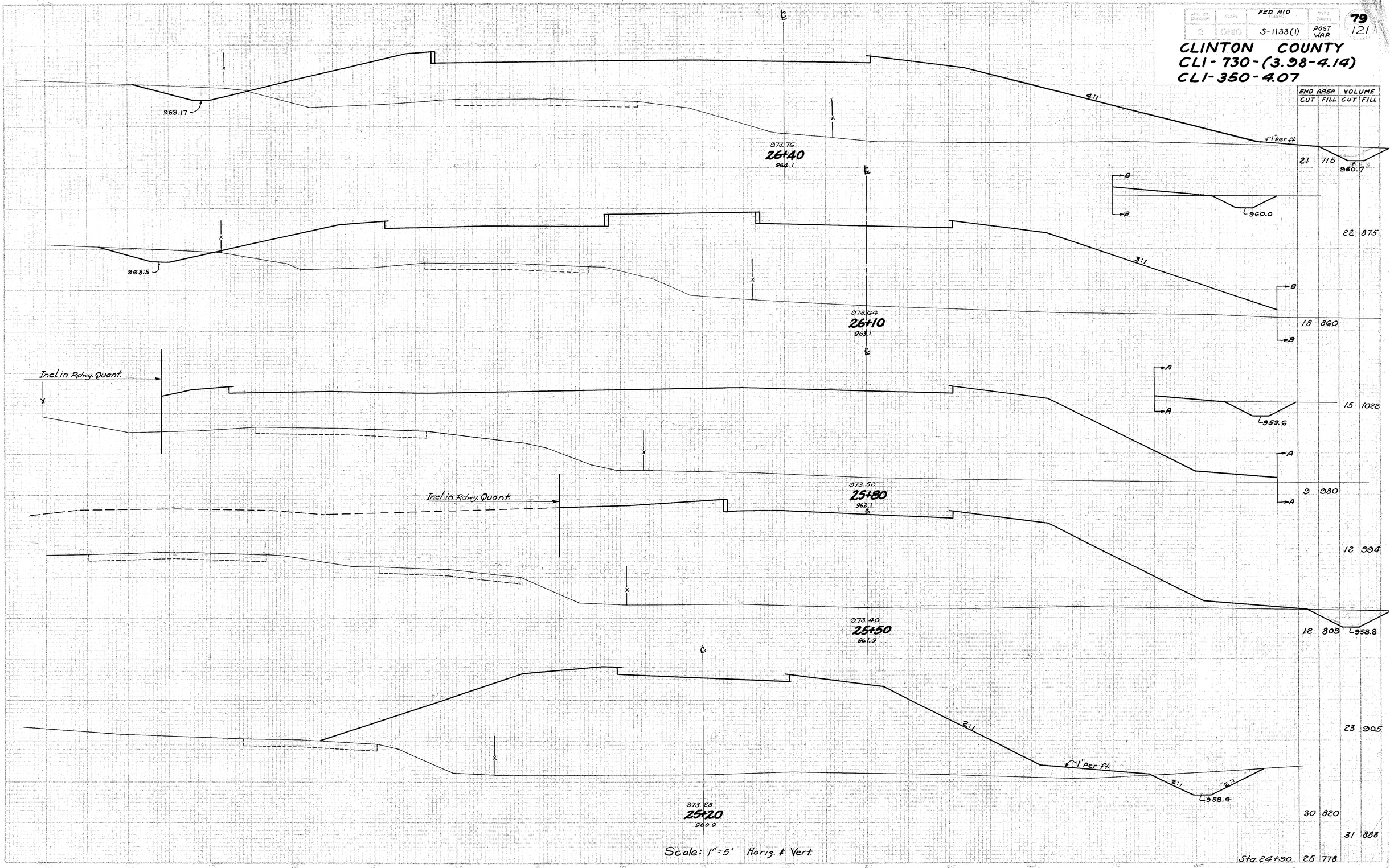


	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	27	778		
			22	881
	12	808		
			7	923
	0	853		
			2	928
Ahead	3	818		
Back	6	816		
				97
			7	736
	8	773		
			13	247
Sta. 23+66	69	707		

APPR. 26+85.55 R ton S.R. 730 STA. 23+75 – STA. 24+90

FED. AID PROJECT	STATE	FED. AID PROJECT	SHT. NO.	79
2	OHIO	S-1133(1)	POST WAR	121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07



Sta.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
26+40			21	715
26+10			22	875
25+80			18	860
25+50			15	1022
25+20			3	980
24+90			12	994
			12	809
			23	905
			30	820
			31	888
Sta. 24+90			25	778

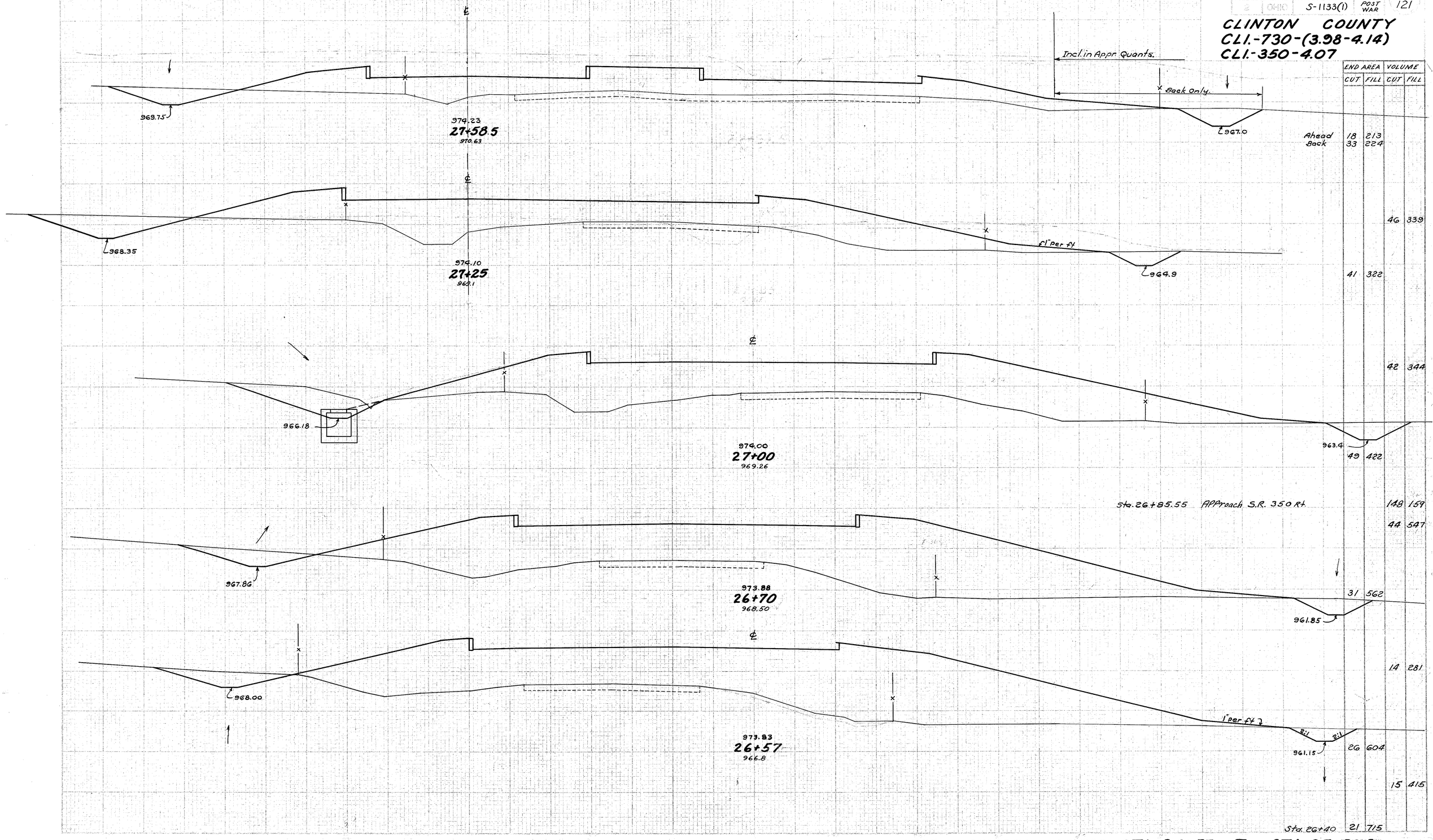
Scale: 1"=5' Horiz. & Vert.

APPR. 26+85.55 Rt. on S.R. 730 STA. 25+20 — STA. 26+40

Sh 7 of 9

FED. AID PROJECT	STATE	FED. AID	SHEET NO.	TOTAL SHEETS
2	0410	S-1133(1)	POST WAR	80 / 121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Ahead	18	213		
Back	33	224		
			46	339
	41	322		
			42	344
	49	422		
Sta. 26+85.55 APProach S.R. 350 Rt			148	159
			44	547
	31	562		
			14	281
	26	604		
			15	415
Sta. 26+40	21	715		

APPR 26+85.55 Rt on SR 730 STA. 26+57 ~To~ STA. 27+58.5

FED. AID S-1133(1) POST WAR

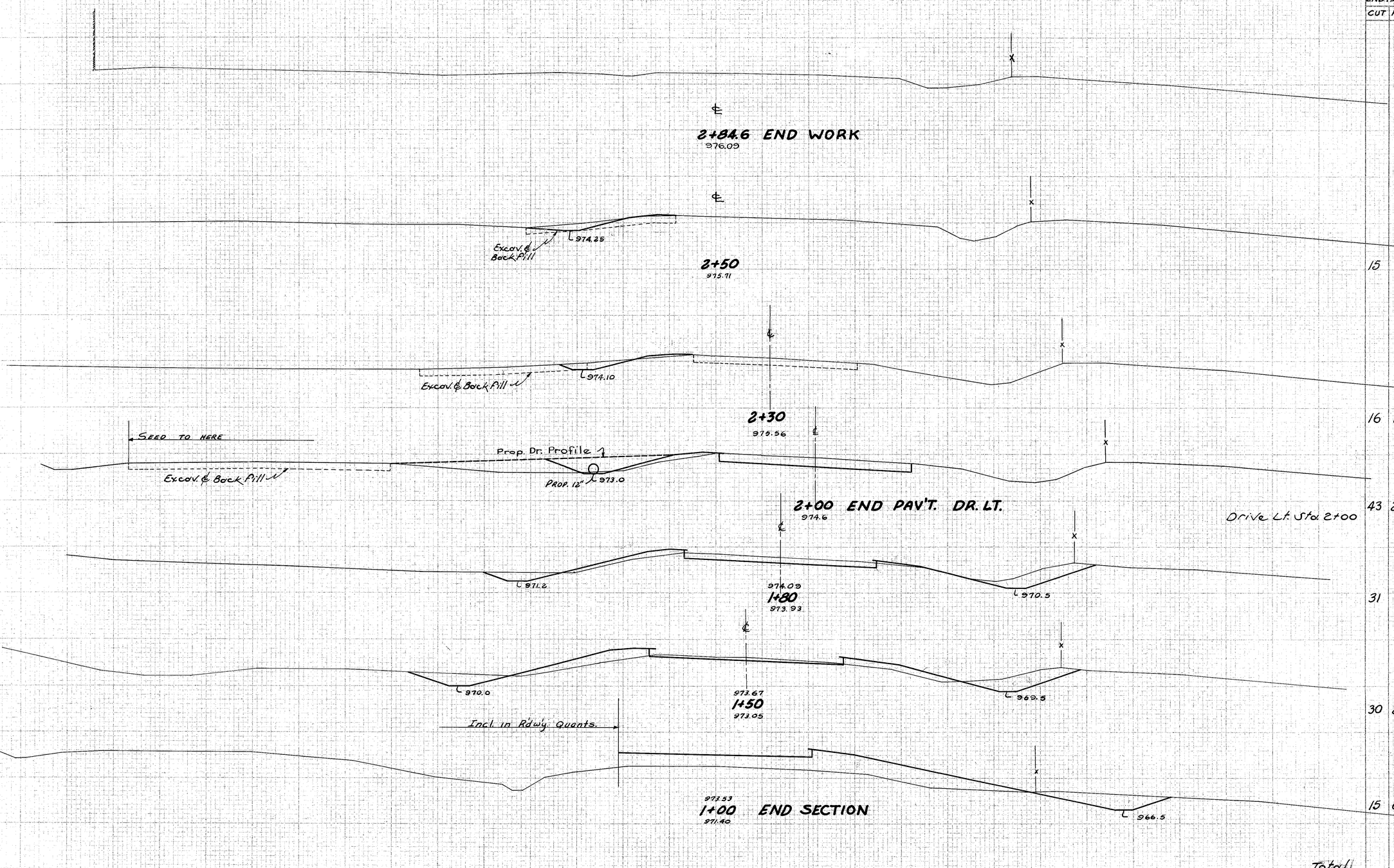
81
121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07

END AREA		VOLUME	
CUT	FILL	CUT	FILL

FED. ROAD SYSTEM	STATE	FED. AID PROJECT	STATE PROJECT	82
2	OHIO	S-1133(1)	POST WAR	121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07



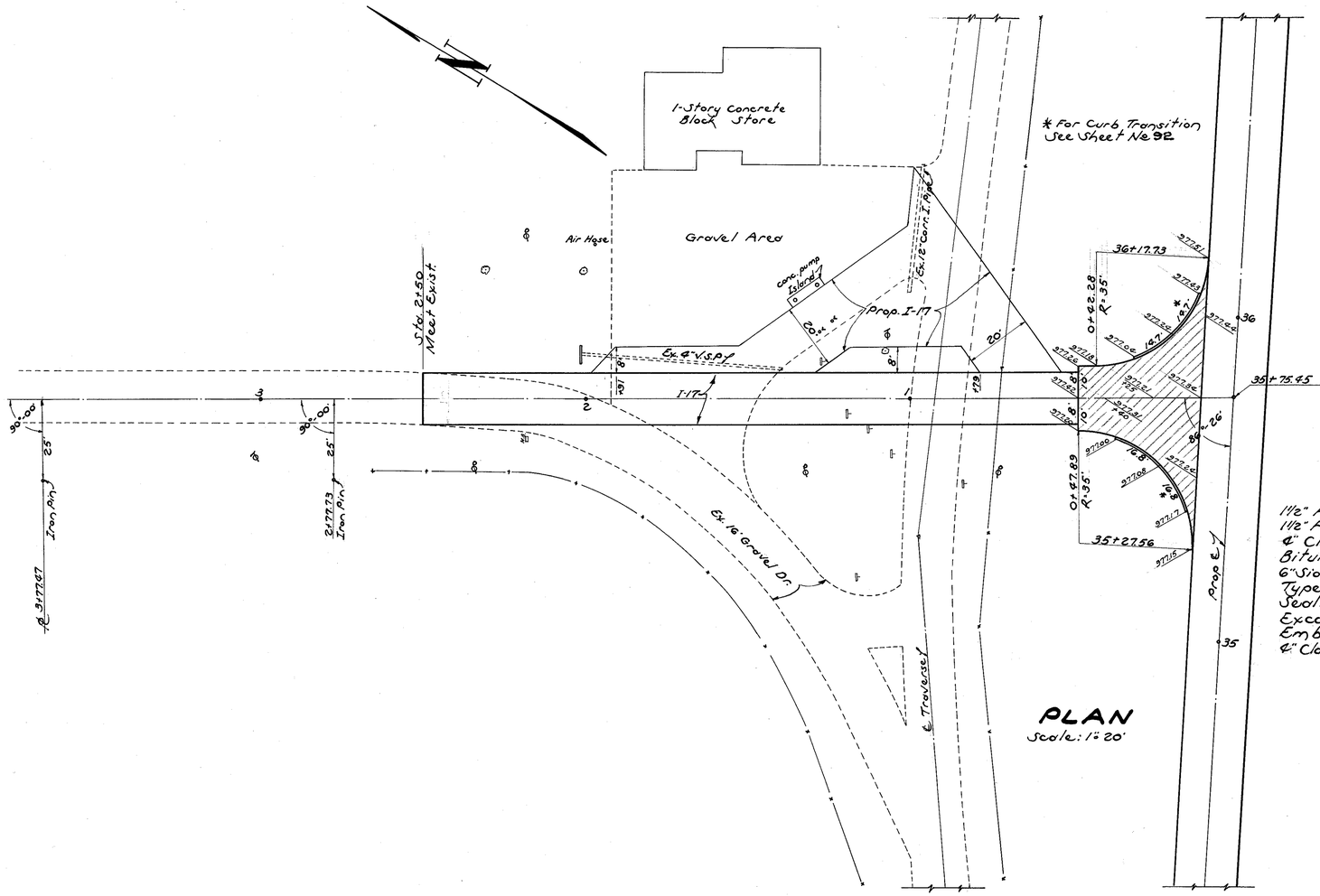
STA	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
2+84.6 END WORK				
2+50	15	11		
			12	10
2+30	16	15		
			33	23
2+00 END PAV'T. DR. LT.	43	26	0	15
Drive Lt. Sta. 2+00			27	12
1+80	31	7		
			34	16
1+50	30	22		
			42	83
1+00 END SECTION	15	68		
Total			148	159

APPROACH SR 350 STA 2+85.55 RT.

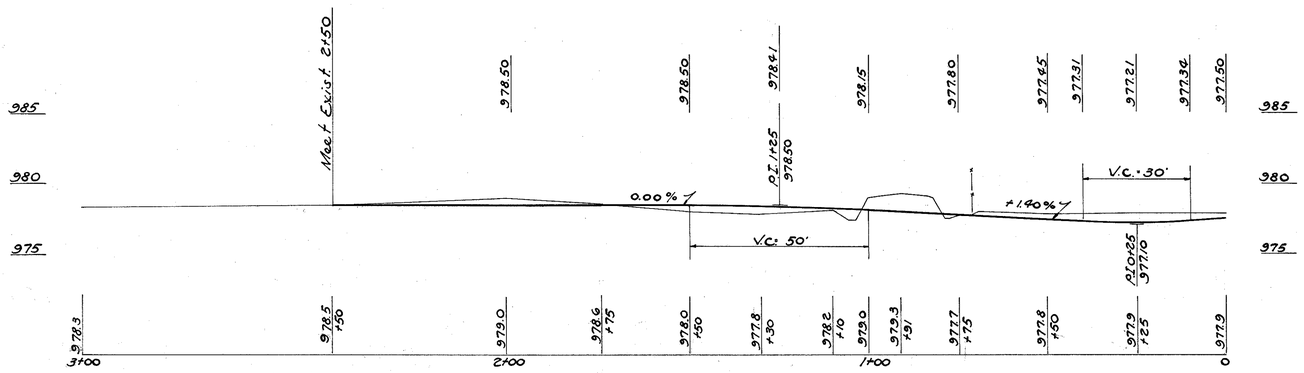
FED. RD. DIVISION	STATE	FED AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(1)	POST WAR

83
121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-730-4.07



PLAN
Scale: 1"=20'



PROFILE
Scale: 1"=5' Vert.
1"=20' Horiz.

ESTIMATED QUANTITIES

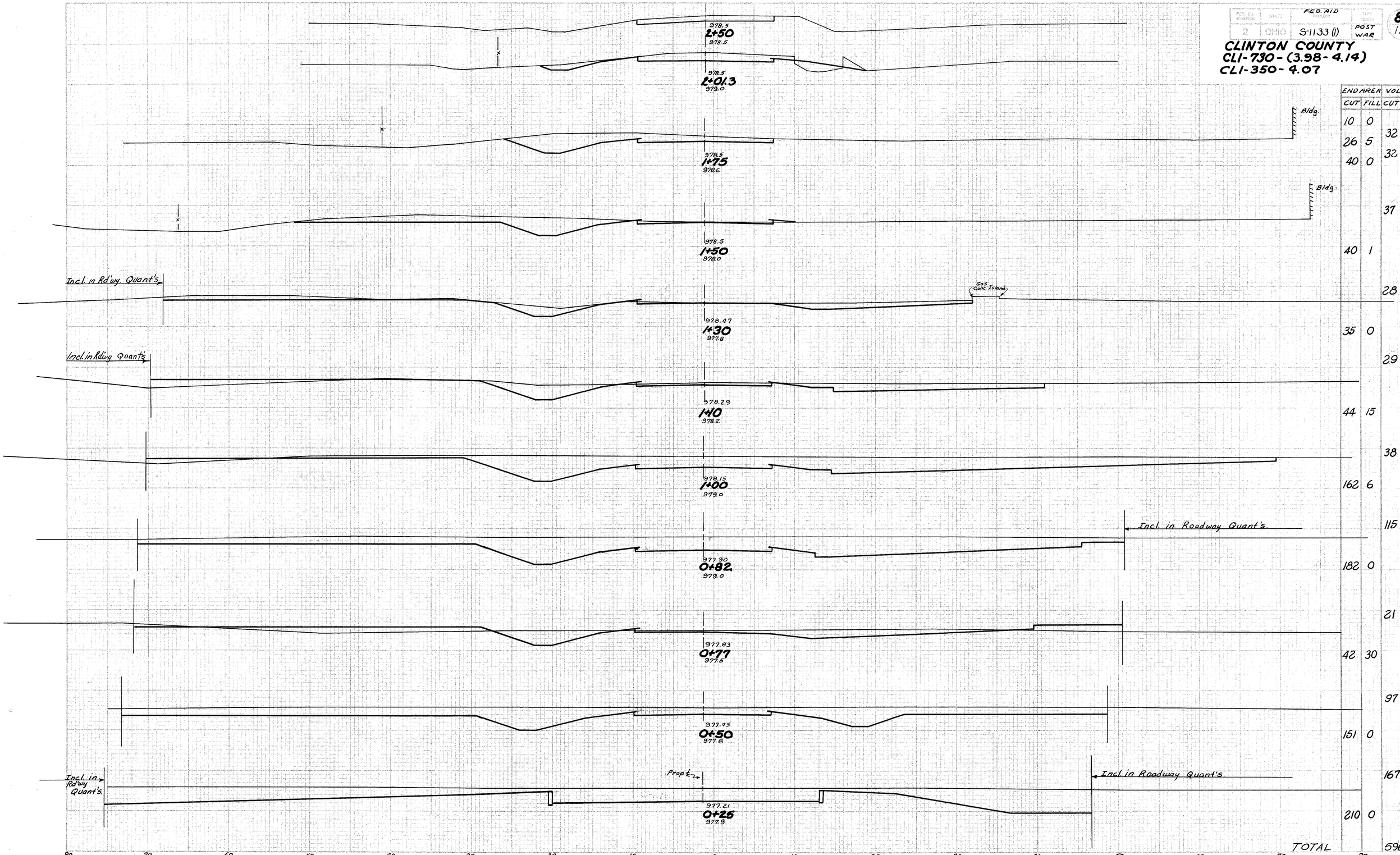
1½" Asph. Conc. Surface Course	Item 7-35	145	Sq. Yd.
1½" Asph. Conc. Leveling Course	Item 8-35	145	Sq. Yd.
4" Classified Embankment Material (Using Crusher Run Limestone)	Item SS-5	145	Sq. Yd.
Bituminous Prime Coat	Item 7-30	145	Sq. Yd.
6" Side Appr. Mail Box Turnouts & Berm Material	Item I-17	129.8	Cu. Yd.
Type 6 Concrete Curb	Item I-12	63	Lin. Ft.
Sealing Only	Item E-8	63	Lin. Ft.
Excavation (carried to Rdwy. X-Sects.)	Item E-1	596	Cu. Yd.
Embankment (carried to Rdwy. X-Sects.)		39	Cu. Yd.
4" Classified Embankment Material Grading "C"	Item SS-5	145	Sq. Yd.

PROP. APPROACH
STA. 35+75.45 Lt.

FED. NO.	STATE	FED. AID PROJECT	SHEET NO.
2	OHIO	S-1133 (1)	POST WAR

84
121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07



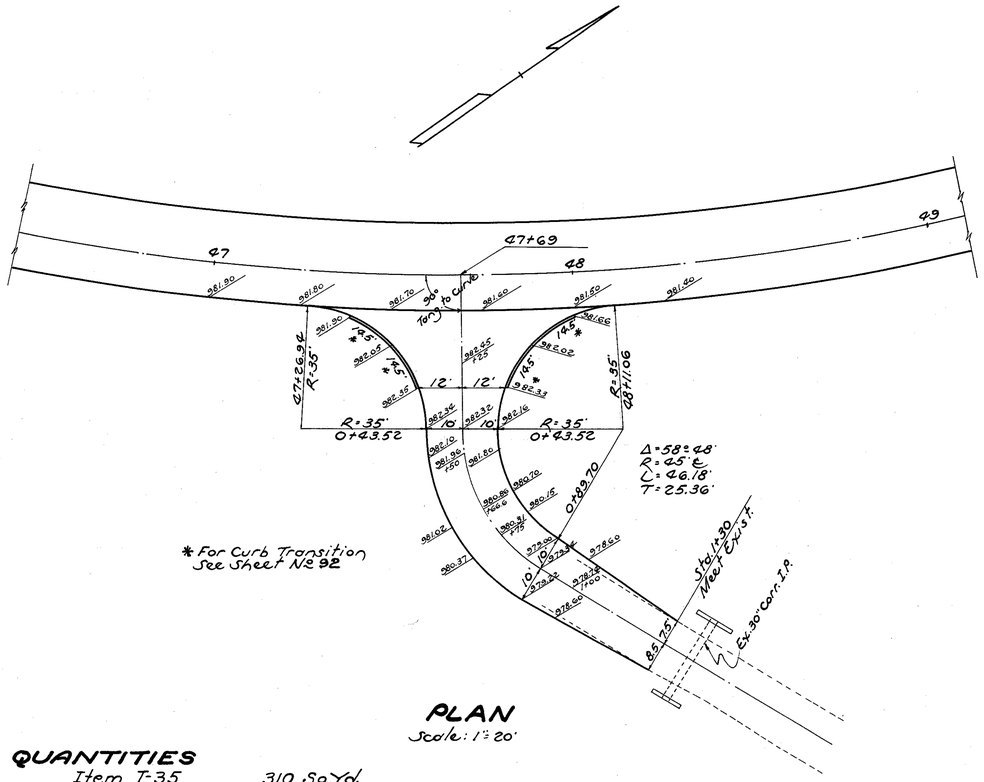
	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	10	0		
	26	5	32	5
	40	0	32	2
			37	1
	40	1		
			28	1
	35	0		
			29	6
	44	15		
			38	4
	162	6		
			115	2
	182	0		
			21	3
	42	30		
			97	15
	151	0		
			167	0
	210	0		
TOTAL			596	39

X-SECS → APPROACH STA. 35+73.45 Lt

FED. RD. DIVISION	STATE	FED.AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(1)	POST WWR

85/121

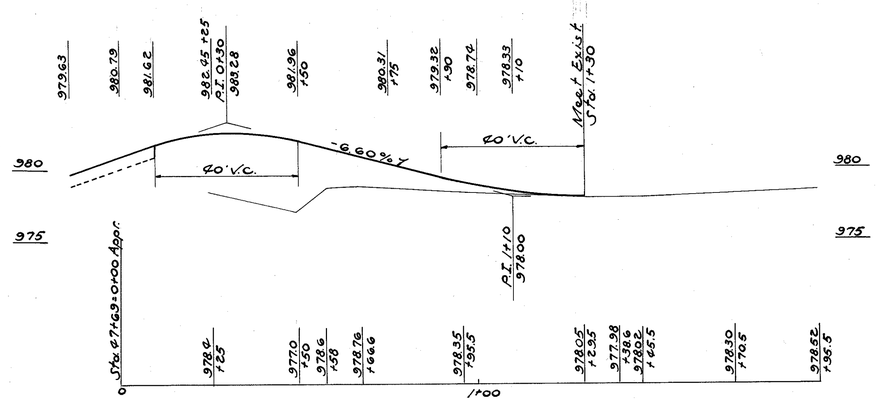
CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07



PLAN
Scale: 1"=20'

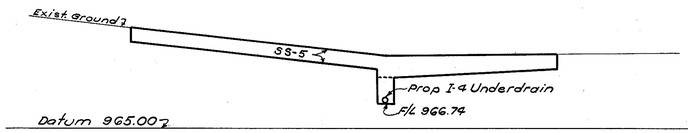
ESTIMATED QUANTITIES

1½" Asph. Concrete Surface Course	Item	T-35	310 Sq.Yd.
1½ Asph. Concrete Leveling Course	Item	B-35	310 Sq.Yd.
4" Classified Embankment Material (Limestone)	Item	SS-5	318 Sq.Yd.
Bituminous Prime Coat	Item	T-30	318 Sq.Yd.
Type G Concrete Curb	Item	I-12	58 Lin.Ft.
Sealing Only	Item	E-8	58 Lin.Ft.
Excavation (carried to Roadway X-Sec.)	Item	E-1	58 Cu.Yd.
Embankment (carried to Roadway X.Sec.)			485 Cu.Yd.
4" Classified Embankment Material (Grading C"	Item	SS-5	318 Sq.Yd.

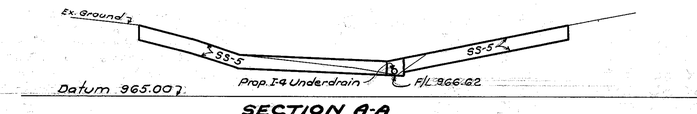


PROFILE
Scale: 1"=20' Hor.
1"=5' Vert.

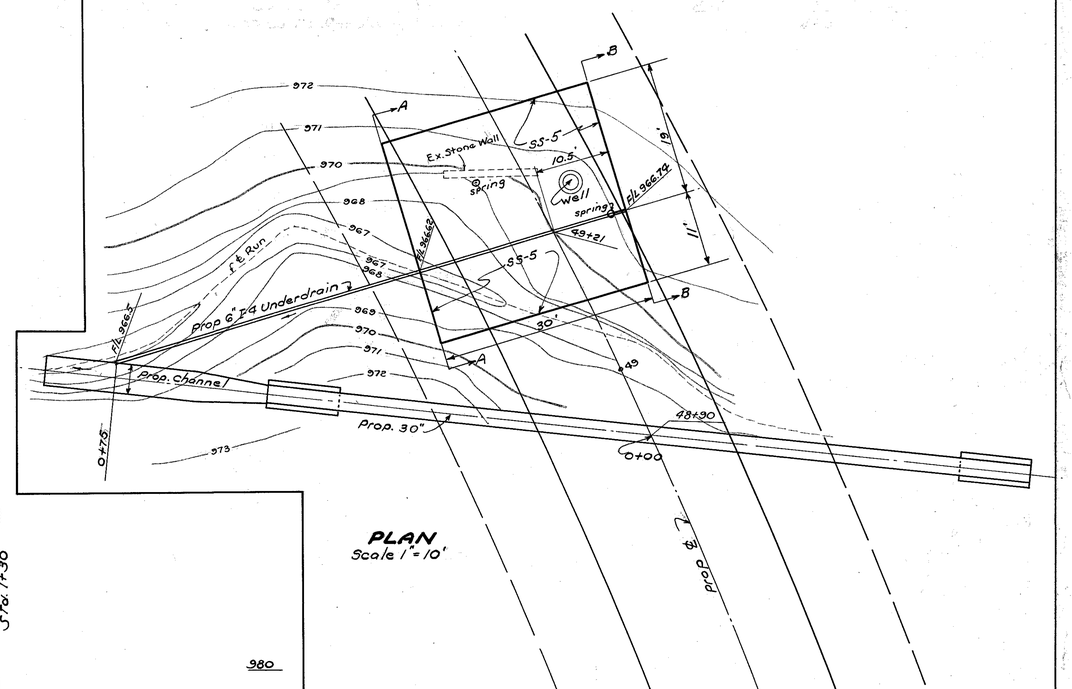
APPROACH — STA. 47+69 RT.



SECTION B-B
Scale 1"=5'



SECTION A-A
Scale 1"=5'



PLAN
Scale 1"=10'

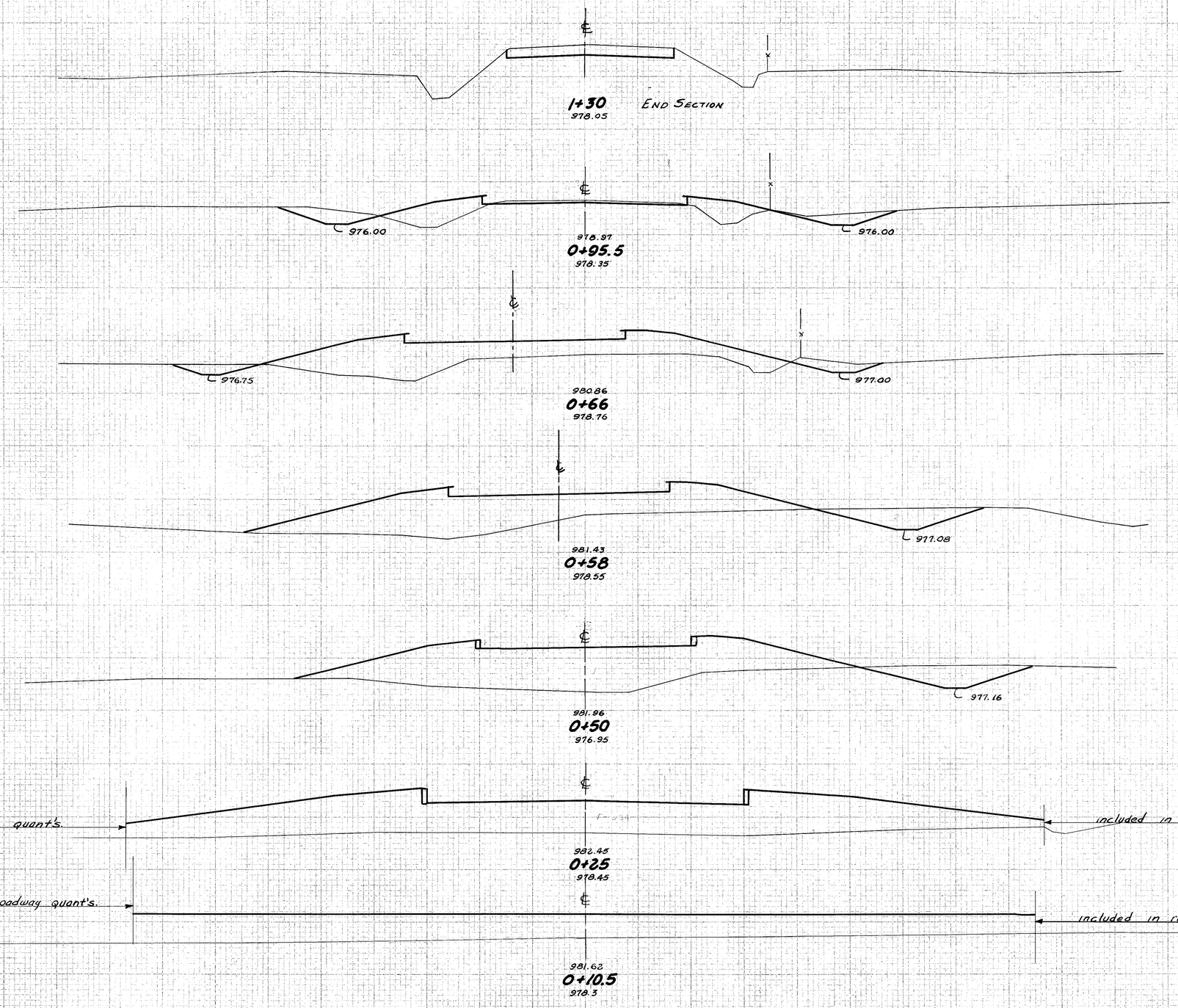
ESTIMATED QUANTITIES

Roadway Excavation (Incl. in Rdwy. Quants.)	Item E-1	30 Cu.Yd.
Classified Embankment Material (A or B)	Item SS-5	34 Cu.Yd.
6" Perforated Corrugated Metal Pipe	Item I-4	74 Lin.Ft.

BLANKET UNDERDRAIN
STA. 49+21 RT. & LT.

TOTAL SHEETS	STATE	FED. AID		PROJ.
2	OHIO	S-1133(1)	POST WAR	86 121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07



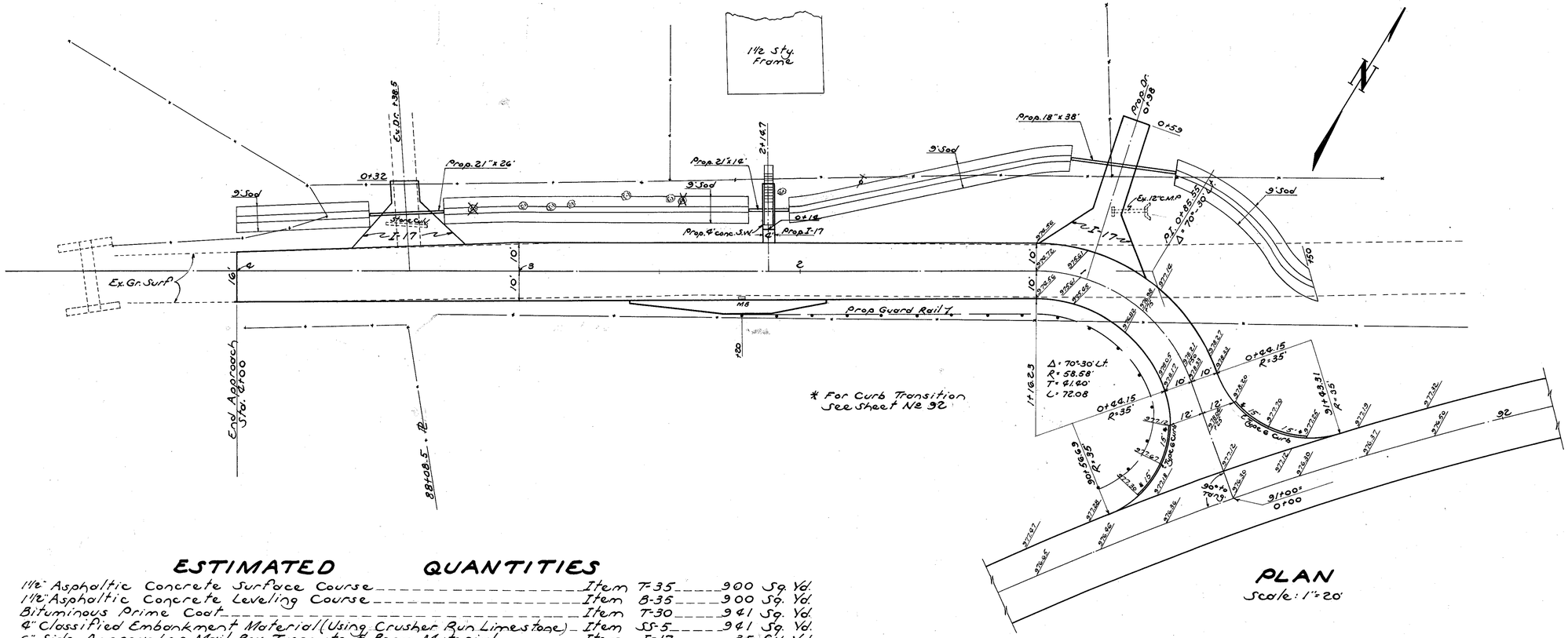
	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
1+30	16	0		
			22	17
0+95.5	18	27		
			16	74
0+66	11	101		
			5	37
0+58	19	130		
			6	43
0+50	20	159		
			9	191
0+25	0	254		
			0	123
0+10.5	0	205		
Total			58	495

APPROACH STA. 47+69 RT.

FED. RD. DIVISION	STATE	FED AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(I)	POST WAR

87
121

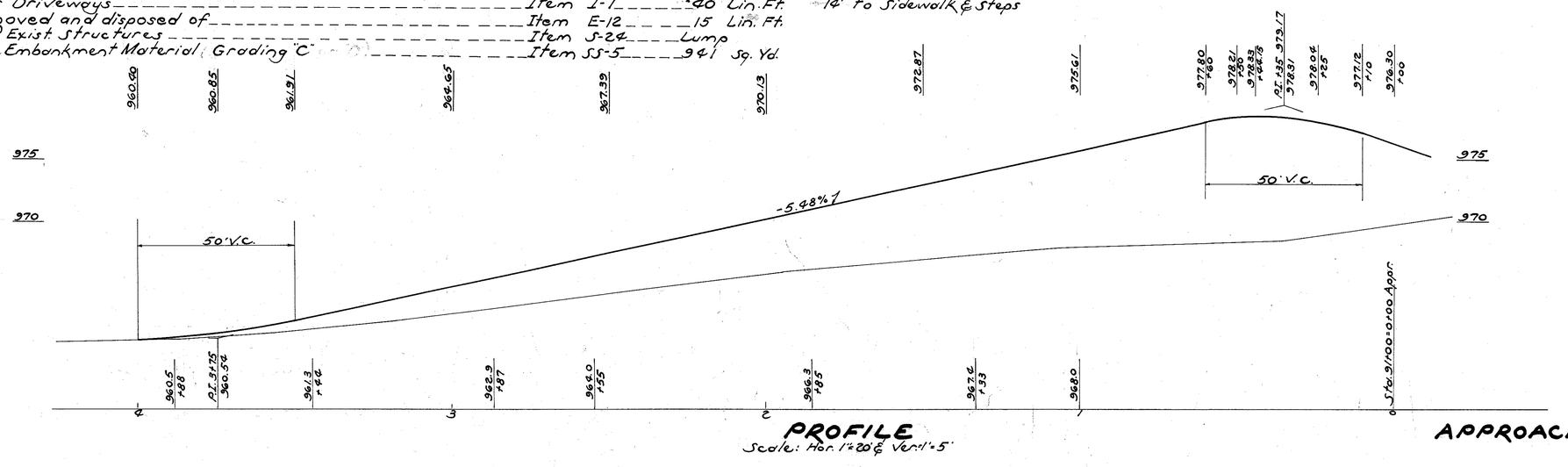
CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07



PLAN
Scale: 1"=20'

ESTIMATED QUANTITIES

1½" Asphaltic Concrete Surface Course	Item	T-35	900 Sq. Yd.
1½" Asphaltic Concrete Leveling Course	Item	B-35	900 Sq. Yd.
Bituminous Prime Coat	Item	T-30	941 Sq. Yd.
4" Classified Embankment Material (Using Crusher Run Limestone)	Item	SS-5	941 Sq. Yd.
6" Side Approaches, Mail Box Turnouts & Berm Material	Item	I-17	35 Cu. Yd.
Type G Concrete Curb	Item	I-12	60 Lin. Ft.
Sealing Only	Item	E-8	60 Lin. Ft.
Excavation (Carried to Rdwy X-Sec.)	Item	E-1	224 Cu. Yd.
Embankment (Carried to Rdwy X-Sec.)			3720 Cu. Yd.
Guard Rail	Item	I-15	192 Lin. Ft.
Sod	Item	L-10	320 Sq. Yd.
Side walks, 4" Concrete	Item	I-13	57 Sq. Ft.
18" Pipe for Driveways	Item	I-1	38 Lin. Ft.
21" Pipe for Driveways	Item	I-1	40 Lin. Ft.
12" Pipe removed and disposed of	Item	E-12	15 Lin. Ft.
Removal of Exist. Structures	Item	S-24	Lump
4" Classified Embankment Material, Grading "C"	Item	SS-5	941 Sq. Yd.



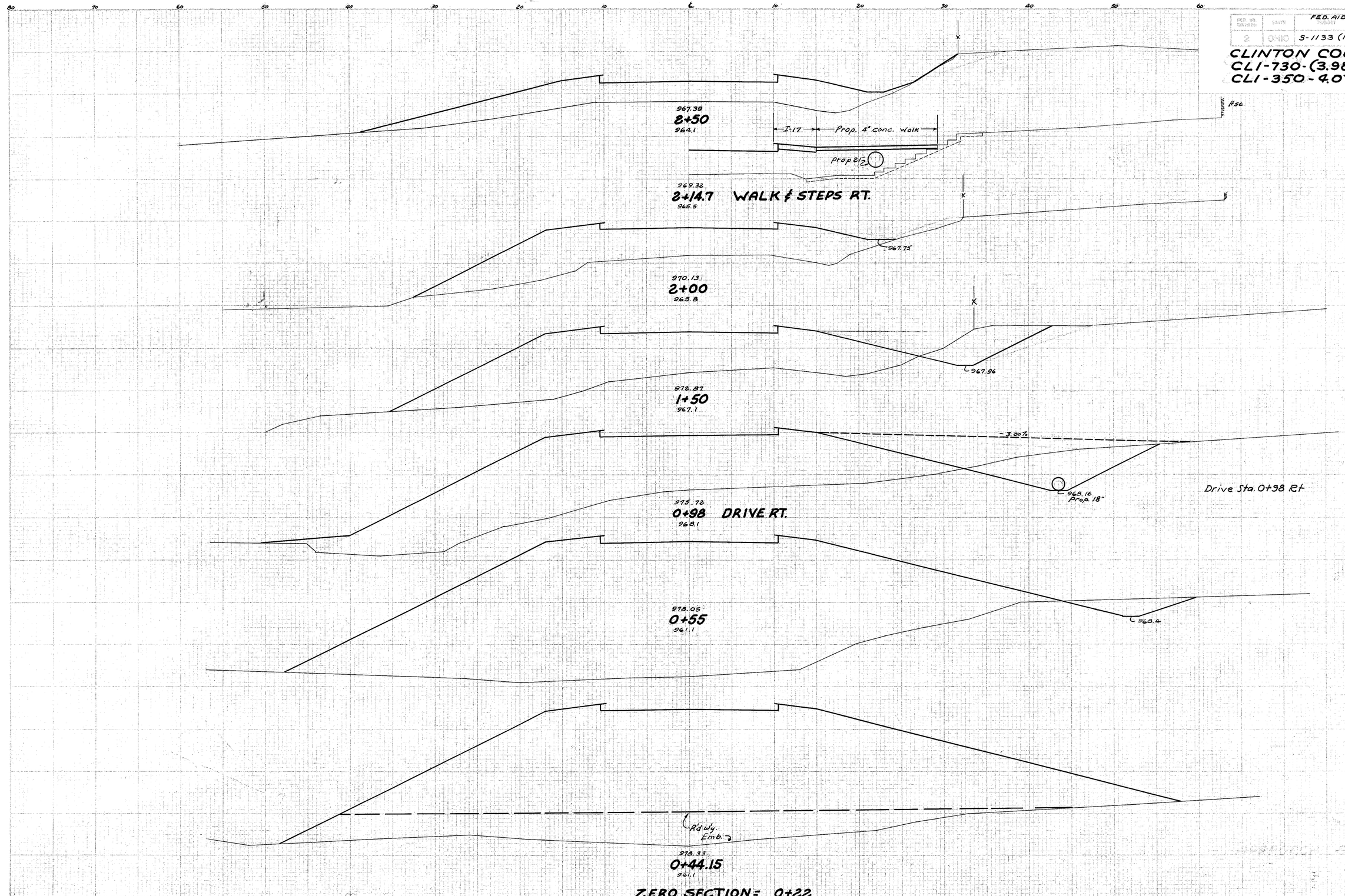
PROFILE
Scale: Hor. 1"=20' & Vert. 1"=5'

* 26' to Pavement
14' to Sidewalk & Steps

APPROACH LT. STA. 91+00

PER. NO. DRAWING	STATE	FED. AID PROJECT	SHEET NO.	TOTAL SHEETS
2	OHIO	S-1133 (1) POST WAR	88	121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	147		
		0	312
0	190		
		32	443
35	288		
		88	714
		60	
58	454		
		63	1124
21	958		
		4	352
0	792	0	325
0	0		

ZERO SECTION = 0+22

APPROACH STA. 9+00 Lt. — STA. 0+44.15 — STA. 2+50

FED. AID			
2	OHIO	S-1133 (1)	POST WAR

89
121

CLINTON COUNTY
CLI.-730 (3.98-4.14)
CLI.-350-4.07

END AREA		VOLUME	
CUT	FILL	CUT	FILL

Total Carried to Rdwy. Quantities 224 3720

960.40
4+00 END SECTION
960.4

16 0

24 37

961.91
3+50
961.2

10 20

958.7

Drive Sta. 3+38.5 6

959.5 Prop. 21" Pipe

962.54
3+38.5 Drive Rt.
961.5

13 124

962.0

964.65
3+00 BEGIN FLARE
962.5

4 94 0 223

Sta. 2+50 0 147

APPROACH STA. 91+00 LT. STA. 3+00 - STA. 4+00

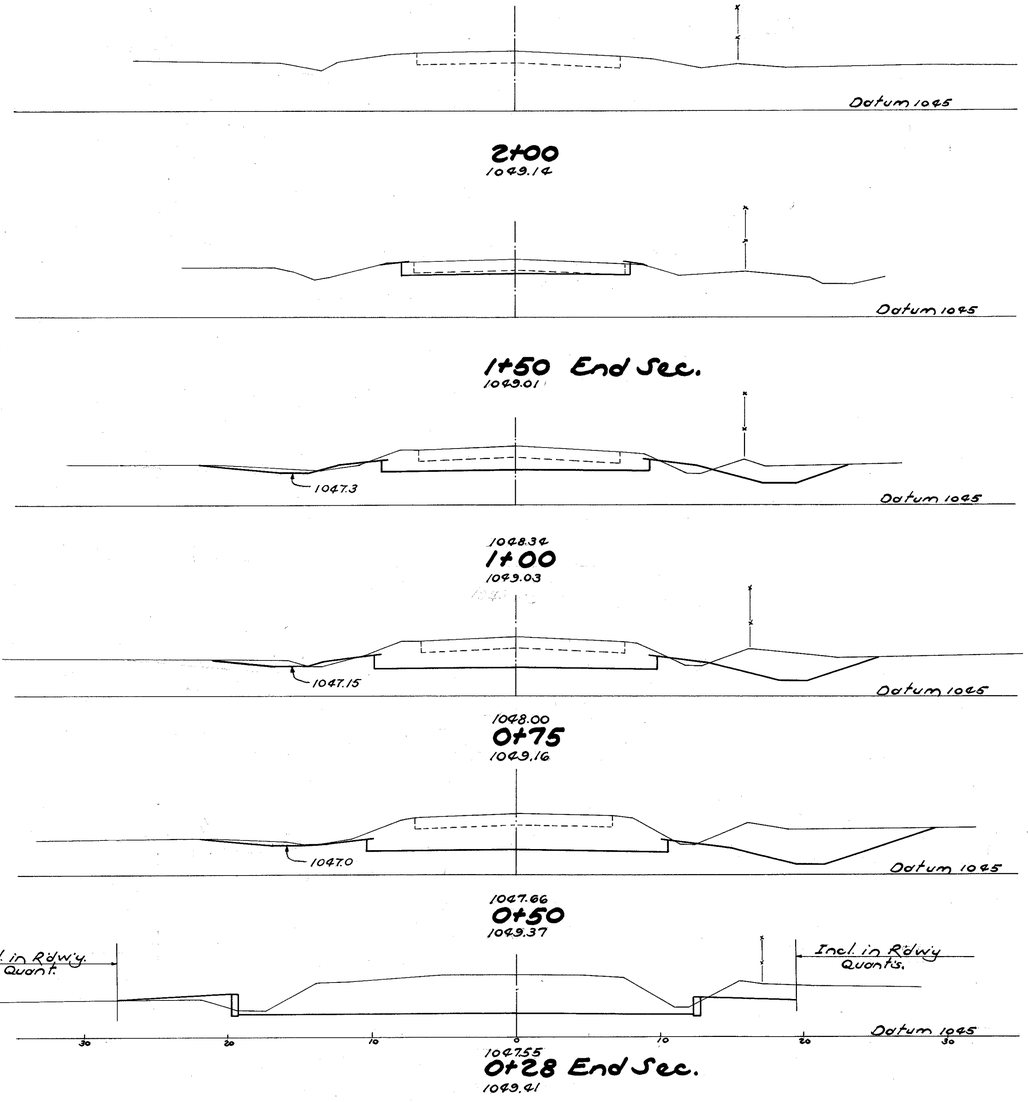
Sh 2 of 2

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133 (1)	POST WAR

90
121

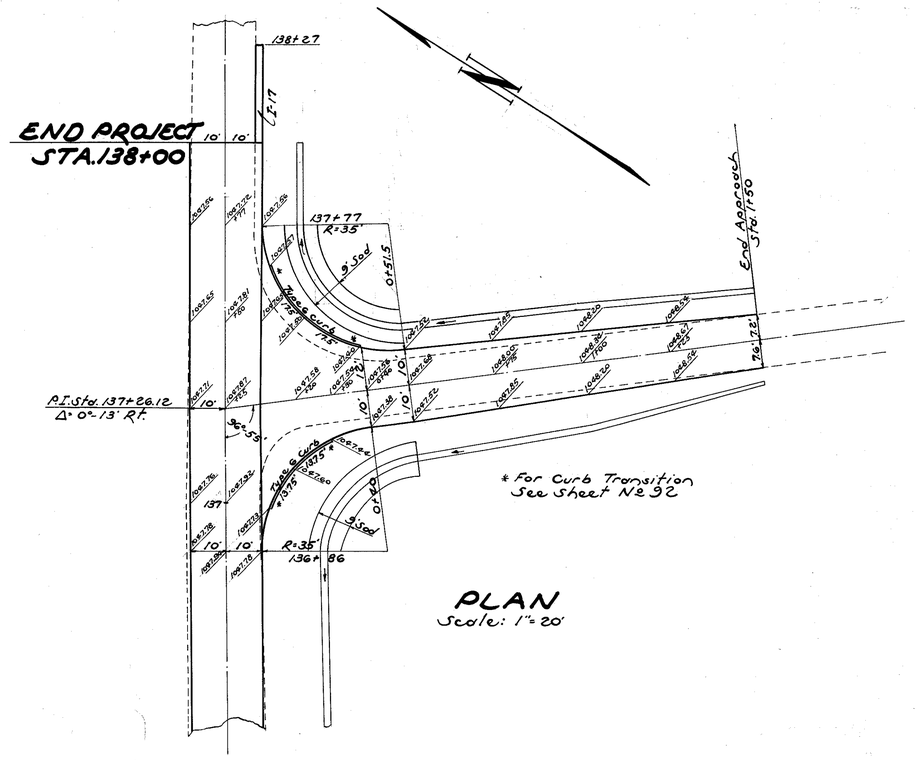
CLINTON COUNTY
CLI-730(3.98-4.14)
CLI-350-4.07

End Area Cut	End Area Fill	Volume Cut	Volume Fill
15	0		
		53	2
42	2		
		47	1
60	0		
		67	0
84	0		
		64	2
74	3		
Total		231	4

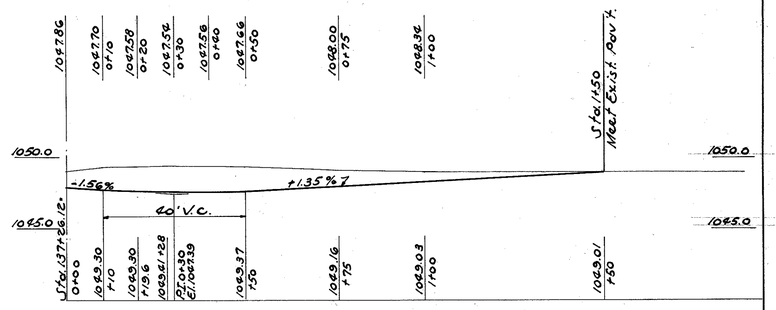


ESTIMATED QUANTITIES

1 1/2" Asphaltic Concrete Surface Course	Item	T-35	345	Sq. Yd.
1 1/2" Asphaltic Concrete Leveling Course	Item	B-35	345	Sq. Yd.
Bituminous Prime Coat	Item	T-30	354	Sq. Yd.
4" Classified Embankment Material (Using Crusher Run Limestone	Item	SS-5	354	Sq. Yd.
Type 6 Concrete Curb	Item	I-12	63	Lin. Ft.
Seeding Only	Item	E-8	63	Lin. Ft.
Sodding	Item	L-10	81	Sq. Yd.
Side Approaches Mail Box Turnouts & Berm Material	Item	I-17	2	Cu. Yd.
Excavation (carried to Rdwy. X-Sec.)	Item	E-1	234	Cu. Yd.
Embankment (carried to Rdwy. X-Sec.)			4	Cu. Yd.
4" Classified Embankment Material Grading "C"	Item	SS-5	354	Sq. Yd.



PLAN
Scale: 1" = 20'



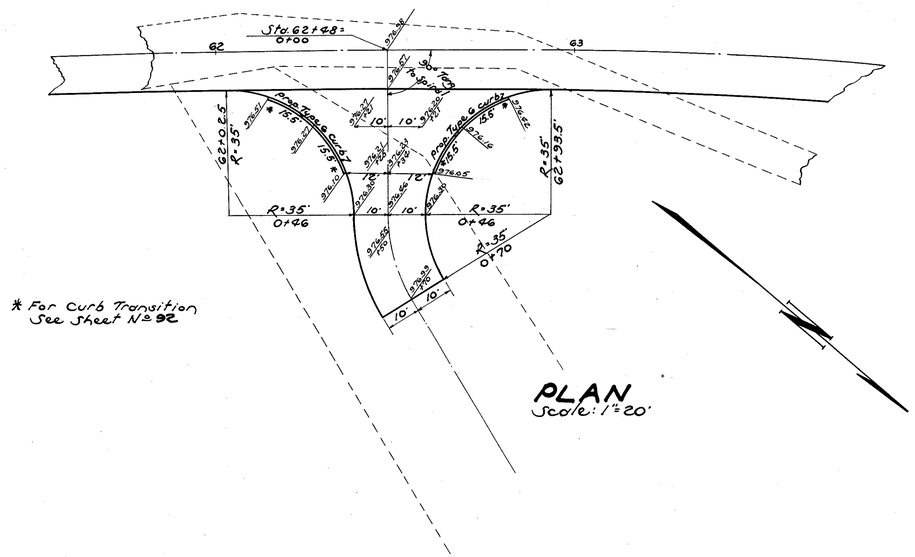
PROFILE
Scale: Ver. 1" = 5'
Hor. 1" = 20'

APPROACH RT.
STA. 137+26.12

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(1)	POST WAR

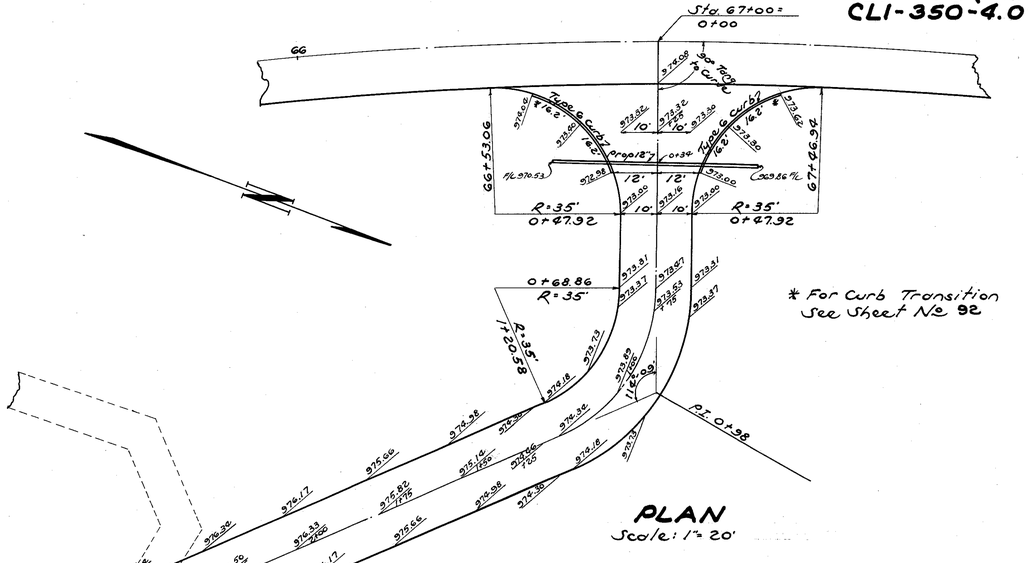
91
121

CLINTON COUNTY
CLI-730 (3.98-4.14)
CLI-350-4.07



* For Curb Transition See Sheet No 92

PLAN
Scale: 1"=20'

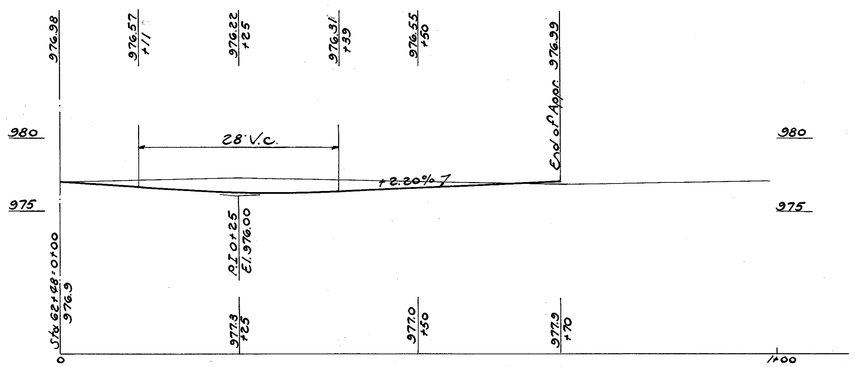


* For Curb Transition See Sheet No 92

PLAN
Scale: 1"=20'

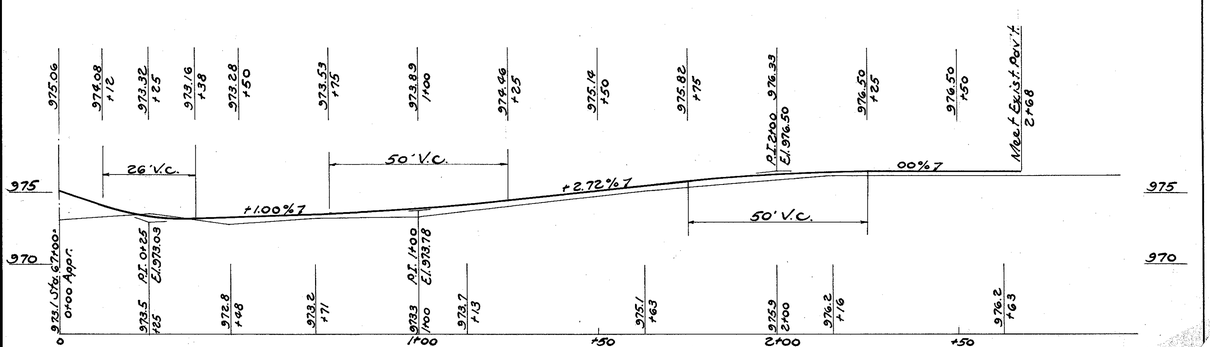
ESTIMATED QUANTITIES

1½" Asphaltic Concrete Surface Course Type "A"	Item	T-35	193	Sq. Yds.
1½" Asphaltic Concrete Leveling Course	Item	B-35	193	Sq. Yds.
Bituminous Prime Coat	Item	T-30	197	Sq. Yds.
4" Classified Embankment Material (Using Crusher Run Limestone)	Item	SS-5	197	Sq. Yds.
Sealing Only	Item	E-8	62	Lin. Ft.
Type 6 Concrete Curb	Item	F-12	62	Lin. Ft.
Excavation (carried to Roadway X-Sections)	Item	E-1	84	Cu. Yds.
4" Classified Embankment Material, Grading "C"	Item	SS-5	197	Sq. Yds.



PROFILE
Scale: Hor. 1"=10'
Vert. 1"=5'

DRIVE RT.
STA. 62+48



PROFILE
Hor. 1"=20'
Scale: Ver. 1"=5'

DRIVE RT.
STA. 67+00

SUPERELEVATION TABLES

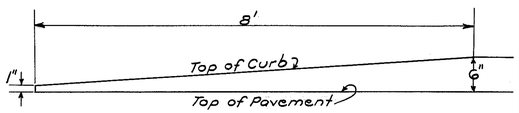
FED. RD. DIVISION	STATE	FED AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(1)	POST WAR

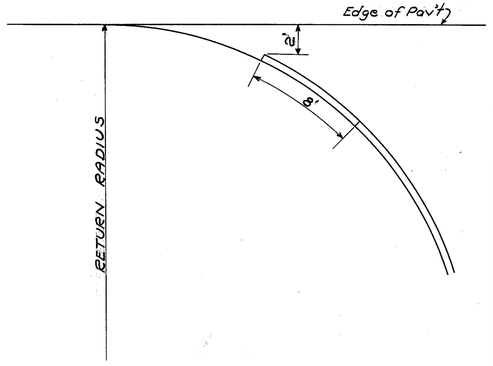
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CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07

T.S. = 20+00 Δ = 16°-00' Rt. S.C. = 23+00
C.S. = 24+00 Dc = 4°-00' S.T. = 27+00

Profile Grade	Super-elevation	Elevation 10' Lt. of ℄	Station	Elevation ℄	Elevation 10' Rt. of ℄
972.49	0.00	972.33	19+34	972.49	972.33
972.33	0.04	972.21	+50	972.33	972.17
972.13	0.10	972.07	+75	972.13	971.97
972.00	0.16	972.00	20+00	972.00	971.84
971.91	0.26	972.01	+25	971.91	971.75
971.85	0.36	972.05	+50	971.87	971.69
971.81	0.46	972.11	+75	971.88	971.65
971.80	0.56	972.20	21+00	971.92	971.64
971.81	0.64	972.29	+25	971.97	971.65
971.85	0.74	972.43	+50	972.06	971.69
971.91	0.84	972.59	+75	972.17	971.75
972.00	0.94	972.78	22+00	972.31	971.84
972.10	1.04	972.98	+25	972.46	971.94
972.20	1.14	973.18	+50	972.61	972.04
972.30	1.22	973.36	+75	972.75	972.14
972.40	1.32	973.56	23+00	972.90	972.24
972.50	↑	973.66	+25	973.00	972.34
972.60	↓	973.76	+50	973.10	972.44
972.70		973.86	+75	973.20	972.54
972.80	1.32	973.96	24+00	973.30	972.64
972.90	1.22	973.96	+25	973.35	972.74
973.00	1.14	973.98	+50	973.41	972.84
973.10	1.04	973.98	+75	973.46	972.94
973.20	0.94	973.98	25+00	973.51	973.04
973.30	0.84	973.98	+25	973.56	973.14
973.40	0.74	973.98	+50	973.61	973.24
973.50	0.64	973.98	+75	973.66	973.34
973.60	0.56	974.00	26+00	973.72	973.44
973.70	0.46	974.00	+25	973.77	973.54
973.80	0.36	974.00	+50	973.82	973.64
973.90	0.26	974.00	+75	973.90	973.74
974.00	0.16	974.00	27+00	974.00	973.84
974.10	0.10	974.04	+25	974.10	973.94
974.20	0.04	974.08	+50	974.20	974.04
974.26	0.00	974.10	+66	974.26	974.10





CURB TRANSITION AT INTERSECTIONS.

T.S. = 42+55.76 Δ = 103°-02' Lt. S.C. = 46+55.76
C.S. = 54+00.57 Dc = 9°-00' S.T. = 58+00.57

Profile Grade	Left Edge Pav't. Elev.	Left Edge Pav't. Dist. to ℄	Station	Elevation ℄	Elevation 10' Rt. of ℄	Super-elevation
979.96	979.80	10.00'	41+89.76	979.96	979.80	0.00
980.00	979.84		42+00	980.00	979.86	0.02
980.10	979.94		+25	980.10	980.03	0.09
980.20	980.04		+50	980.20	980.19	0.15
980.22	980.06	10.00'	+55.76	980.22	980.22	0.16
980.30	980.14	10.19	+75	980.30	980.37	0.23
980.40	980.23	10.44	43+00	980.40	980.56	0.32
980.50	980.33	10.69	+25	980.55	980.76	0.42
980.60	980.42	10.94	+50	980.69	980.94	0.50
980.70	980.50	11.19	+75	980.84	981.14	0.60
980.80	980.59	11.44	44+00	980.99	981.34	0.70
980.89	980.66	11.69	+25	981.13	981.53	0.80
980.95	980.70	11.94	+50	981.24	981.69	0.90
980.99	980.72	12.19	+75	981.32	981.81	0.98
981.00	980.71	12.44	45+00	981.38	981.92	1.08
980.99	980.67	12.69	+25	981.42	982.01	1.18
980.95	980.61	12.94	+50	981.42	982.05	1.26
980.89	980.51	13.19	+75	981.41	982.09	1.36
980.80	980.39	13.44	46+00	981.37	982.10	1.46
980.70	980.26	13.69	+25	981.31	982.08	1.54
980.60	980.12	13.94	+50	981.26	982.08	1.64
980.58	980.09	14.00	+55.76	981.25	982.08	1.66
980.50	980.01	↑	+75	981.17	982.00	↑
980.40	979.91		47+00	981.07	981.90	
980.30	979.81		+25	980.97	981.80	
980.20	979.71		+50	980.87	981.70	
980.10	979.61		+75	980.77	981.60	
980.00	979.51		48+00	980.67	981.50	
979.90	979.41		+25	980.57	981.40	
979.80	979.31		+50	980.47	981.30	
979.70	979.21		+75	980.37	981.20	
979.60	979.11		49+00	980.27	981.10	
979.50	979.01		+25	980.17	981.00	
979.40	978.91		+50	980.07	980.90	
979.30	978.81		+75	979.97	980.80	
979.20	978.71		50+00	979.87	980.70	
979.10	978.61		+25	979.77	980.60	
979.00	978.51		+50	979.67	980.50	
978.90	978.41		+75	979.57	980.40	
978.80	978.31		51+00	979.47	980.30	
978.70	978.21		+25	979.37	980.20	
978.60	978.11		+50	979.27	980.10	
978.50	978.01		+75	979.17	980.00	
978.40	977.91		52+00	979.07	979.90	
978.30	977.81		+25	978.97	979.80	
978.20	977.71		+50	978.87	979.70	
978.10	977.61		+75	978.77	979.60	
978.00	977.51		53+00	978.67	979.50	
977.90	977.41		+25	978.57	979.40	
977.80	977.31		+50	978.47	979.30	
977.70	977.21	↓	+75	978.37	979.20	↓
977.60	977.11	14.00	54+00.57	978.27	979.10	1.66
977.50	977.04	13.75	+25	978.13	978.92	1.58
977.40	976.98	13.50	+50	977.98	978.72	1.48
977.30	976.92	13.25	+75	977.83	978.52	1.38
977.20	976.84	13.00	55+00	977.69	978.34	1.30
977.11	976.79	12.75	+25	977.55	978.15	1.20
977.03	976.73	12.50	+50	977.42	977.97	1.10
976.96	976.69	12.25	+75	977.30	977.80	1.00
976.90	976.65	12.00	56+00	977.20	977.66	0.92
976.86	976.63	11.75	+25	977.11	977.52	0.82
976.83	976.62	11.50	+50	977.03	977.39	0.72
976.81	976.61	11.25	+75	976.97	977.29	0.64
976.80	976.61	11.00	57+00	976.91	977.18	0.54
↑	976.62	10.75	+25	976.86	977.08	0.44
	976.63	10.50	+50	976.82	977.00	0.36
	976.64	10.25	+75	976.80	976.89	0.25
	976.64	10.00	58+00.57	976.80	976.80	0.16
	976.64	↓	+25	976.80	976.74	0.10
	976.64		+50	976.80	976.68	0.04
976.80	976.64	10.00'	+66.57	976.80	976.64	0.00

Extra Pavement for Widening = 498.9 Sq. Yds.

T.S. = 61+08.72 Δ = 51°00' Rt. S.C. = 64+58.72
C.S. = 71+28.72 Dc = 5°00' S.T. = 74+78.72

Profile Grade	Super-elevation	Elevation 10' Lt. of ℄	Station	Elevation ℄	Right Edge Pav't. Elev.	Right Edge Pav't. Dist. to ℄
976.80	0.00	976.64	60+42.72	976.80	976.64	10.00'
976.80	0.02	976.66	+50	976.80	976.64	↑
976.80	0.08	976.72	+75	976.80	976.64	
976.80	0.14	976.78	61+00	976.80	976.64	↓
976.80	0.16	976.80	+08.72	976.80	976.64	10.00'
976.80	0.23	976.87	+25	976.80	976.64	10.09
976.80	0.34	976.98	+50	976.81	976.64	10.24
976.80	0.44	977.08	+75	976.86	976.64	10.38
976.80	0.56	977.20	62+00	976.92	976.63	10.52
976.79	0.66	977.29	+25	976.96	976.61	10.66
976.76	0.76	977.36	+50	976.98	976.57	10.81
976.72	0.86	977.42	+75	976.99	976.52	10.95
976.65	0.98	977.47	63+00	976.98	976.44	11.09
976.57	1.08	977.49	+25	976.95	976.34	11.24
976.46	1.18	977.48	+50	976.89	976.22	11.38
976.34	1.30	977.48	+75	976.83	976.08	11.52
976.20	1.40	977.44	64+00	976.74	975.92	11.66
976.05	1.50	977.39	+25	976.64	975.75	11.81
975.90	1.60	977.34	+50	976.54	975.58	11.95
975.85	1.64	977.33	+58.72	976.51	975.53	12.00'
975.75	↑	977.23	+75	976.41	975.43	↑
975.60		977.08	65+00	976.26	975.28	
975.45		976.93	+25	976.11	975.13	
975.30		976.78	+50	975.96	974.98	
975.15		976.63	+75	975.81	974.83	
975.00		976.48	66+00	975.66	974.68	
974.85		976.33	+25	975.51	974.53	
974.70		976.18	+50	975.36	974.38	
974.55		976.03	+75	975.21	974.23	
974.40		975.88	67+00	975.06	974.08	
974.25		975.73	+25	974.91	973.93	
974.10		975.58	+50	974.76	973.78	
973.95		975.43	+75	974.61	973.63	
973.80		975.28	68+00	974.46	973.48	
973.65		975.13	+25	974.31	973.33	
973.50		974.98	+50	974.16	973.18	
973.35		974.83	+75	974.01	973.03	
973.20		974.68	69+00	973.86	972.88	
973.05		974.53	+25	973.71	972.73	
972.90		974.38	+50	973.56	972.58	
972.75		974.23	+75	973.41	972.43	
972.60		974.08	70+00	973.26	972.28	
972.45		973.93	+25	973.11	972.13	
972.30		973.78	+50	972.96	971.98	
972.15		973.63	+75	972.81	971.83	
972.00		973.48	71+00	972.66	971.68	
971.85	↓	973.33	+25	972.51	971.53	↓
971.83	1.64	973.26	+28.72	972.49	971.51	12.00'
971.70	1.56	973.10	+50	972.32	971.39	11.88
971.58	1.44	972.86	+75	972.14	971.23	11.74
971.51	1.34	972.69	72+00	972.02	971.24	11.59
971.50	1.24	972.58	+25	971.96	971.25	11.45
971.54	1.14	972.52	+50	971.95	971.31	11.31
971.64	1.02	972.50	+75	971.99	971.42	11.16
971.79	0.92	972.55	73+00	972.09	971.58	11.02
972.00	0.82	972.66	+25	972.25	971.80	10.88
972.26	0.70	972.80	+50	972.45	972.07	10.74
972.58	0.60	973.02	+75	972.72	972.40	10.59
972.95	0.50	973.29	74+00	973.04	972.78	10.45
973.38	0.40	973.62	+25	973.42	973.21	10.31
973.86	0.28	973.98	+50	973.86	973.70	10.16
974.37	0.18	974.39	+75	974.37	974.21	10.02
974.45	0.16	974.45	+78.72	974.45	974.29	10.00'
974.88	0.11	974.83	75+00	974.88	974.72	
975.39	0.05	975.28	+25	975.39	975.23	
975.79	0.00	975.63	+44.72	975.79	975.63	

Extra Pavement for Widening = 176.5 Sq. Yds.

T.S. = 83+32.31 Δ = 48°-36'-30" Rt. S.C. = 86+82.31
C.S. = 93+04.48 Dc = 5°-00' S.T. = 96+54.48

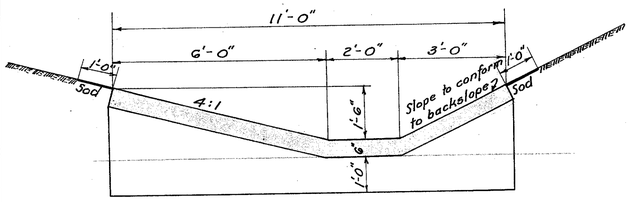
Profile Grade	Super-elevation	Elevation 10' Lt of ℄	Station	Elevation ℄	Right Edge Pav't. Elev.	Right Edge Pav't. Dist. to ℄
985.05	0.00	984.89	82+66.31	985.05	984.89	10.00'
985.05	0.02	984.91	+75	985.05	984.89	↑
985.03	0.08	984.95	83+00	985.03	984.87	
985.00	0.14	984.98	+25	985.00	984.84	↓
984.98	0.16	984.98	+32.31	984.98	984.82	10.00'
984.93	0.23	985.00	+50	984.93	984.77	10.10
984.85	0.34	985.03	+75	984.86	984.69	10.24
984.74	0.46	985.04	84+00	984.81	984.57	10.39
984.62	0.56	985.02	+25	984.74	984.45	10.53
984.46	0.66	984.96	+50	984.63	984.28	10.67
984.28	0.76	984.88	+75	984.50	984.09	10.82
984.08	0.88	984.80	85+00	984.36	983.88	10.96
983.85	0.98	984.67	+25	984.18	983.64	11.10
983.61	1.08	984.53	+50	983.99	983.38	11.24
983.33	1.20	984.39	+75	983.77	983.09	11.39
983.05	1.30	984.21	86+00	983.54	982.79	11.53
982.72	1.40	984.00	+25	983.30	982.47	11.67
982.38	1.50	983.76	+50	983.02	982.13	11.82
982.02	1.62	983.46	+75	982.69	981.75	11.96
981.96	1.64	983.36	+82.31	982.59	981.64	12.00'
981.63	↑	983.11	87+00	982.29	981.31	↑
981.22		982.70	+25	981.88	980.90	
980.79		982.27	+50	981.45	980.47	
980.33		981.81	+75	980.99	980.01	
979.85		981.33	88+00	980.51	979.53	
979.34		980.82	+25	980.00	979.02	
978.83		980.31	+50	979.49	978.51	
978.31		979.79	+75	978.97	977.99	
977.80		979.28	89+00	978.46	977.48	
977.31		978.79	+25	977.97	976.99	
976.88		978.36	+50	977.54	976.56	
976.53		978.01	+75	977.19	976.21	
976.22		977.70	90+00	976.88	975.90	
975.99		977.47	+25	976.65	975.67	
975.80		977.28	+50	976.46	975.48	
975.70		977.18	+75	976.36	975.38	
975.64		977.12	91+00	976.30	975.32	
975.64		977.12	+25	976.30	975.32	
975.71		977.19	+50	976.37	975.39	
975.84		977.32	+75	976.50	975.52	
976.04		977.52	92+00	976.70	975.72	
976.29		977.77	+25	976.95	975.97	
976.60		978.08	+50	977.26	976.28	
976.98		978.46	+75	977.64	976.66	
977.42		978.90	93+00	978.08	977.10	
977.50	1.64	978.98	+04.48	978.16	977.18	12.00'
977.92	1.56	979.32	+25	978.54	977.61	11.88
978.47	1.46	979.77	+50	979.04	978.18	11.74
979.10	1.34	980.28	+75	979.61	978.83	11.60
979.78	1.24	980.86	94+00	980.24	979.53	11.45
980.53	1.14	981.51	+25	980.94	980.30	11.31
981.33	1.02	982.19	+50	981.68	981.11	11.17
982.20	0.92	982.96	+75	982.50	981.99	11.03
983.13	0.82	983.79	95+00	983.38	982.93	10.88
984.09	0.72	984.61	+25	984.29	983.90	10.74
985.05	0.60	985.45	+50	985.19	984.87	10.60
986.01	0.50	986.28	+75	986.13	985.84	10.45
986.97	0.40	987.12	96+00	987.01	986.80	10.31
987.93	0.28	988.05	+25	987.93	987.77	10.17
988.89	0.18	988.91	+50	988.89	988.73	10.03
989.06	0.16	989.06	+54.48	989.06	988.90	10.00
989.85	0.11	989.80	+75	989.85	989.69	
990.81	0.05	990.70	97+00	990.81	990.65	
991.60	0.00	991.44	+20.48	991.60	991.44	

Extra Pavement for Widening = 214.0 Sq. Yds.

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133 (1)	POST WAR

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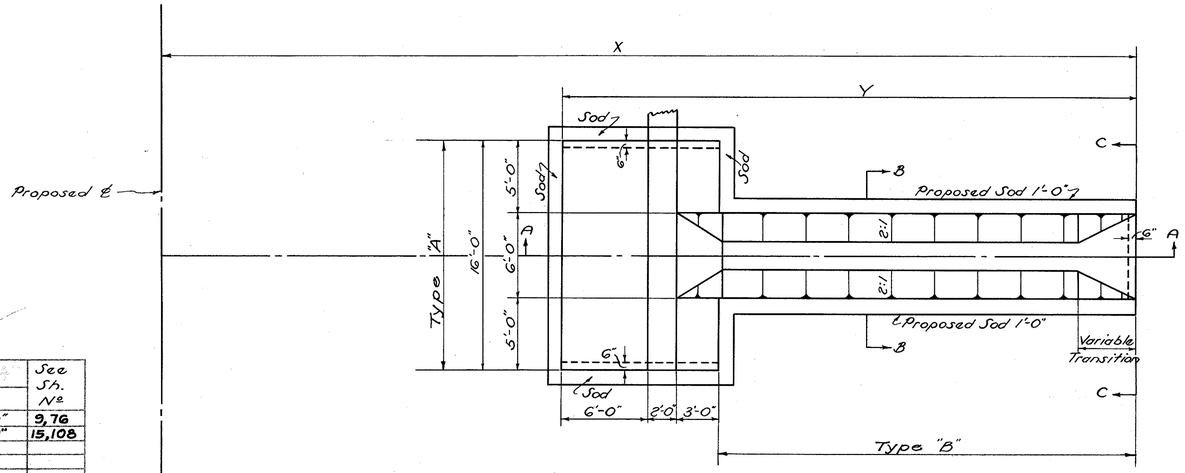
CLINTON COUNTY
CLI-730 (3.98-4.14)
CLI-350-4.07



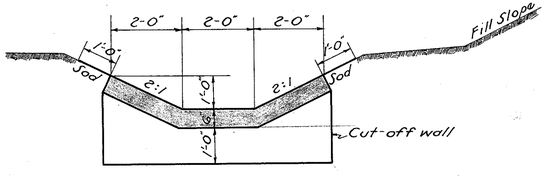
Scale ½"=1'-0"

TYPE "A" PAVED GUTTER
(Class "E" Concrete)

PAVED GUTTER TYPE "A"				See Sh. Nº
Station	Side	X	Y	
22+10	Rt.	50'-6"	25'-0"	9,16
114+26	Rt.	53'-0"	21'-0"	15,108



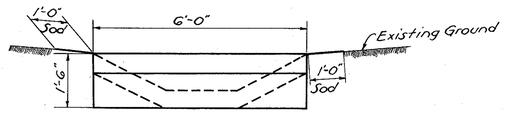
PLAN
Scale : 1"=5'-0"



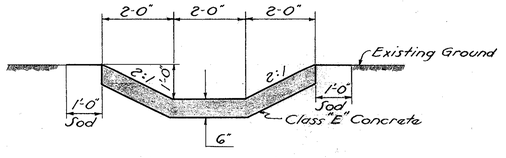
Scale ½"=1'-0"

Cut-off wall (6" thick) at inlet and outlet end of paved gutter to be included in price bid per Lin. Ft. of paved gutter.
See Std. Drawing Nº I-14G for further details.

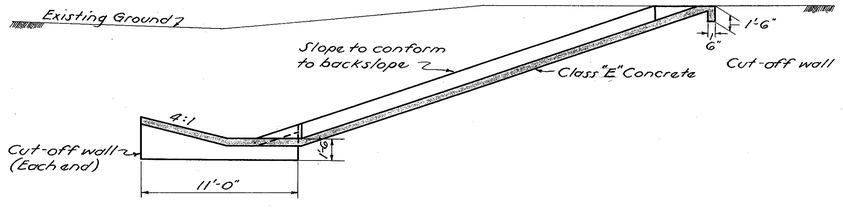
TYPE "B" PAVED GUTTER
(Class "E" Concrete)



VIEW C-C
Scale : ½"=1'-0"



SECTION B-B
Scale : ½"=1'-0"



SECTION A-A
Scale : 1"=5'-0"

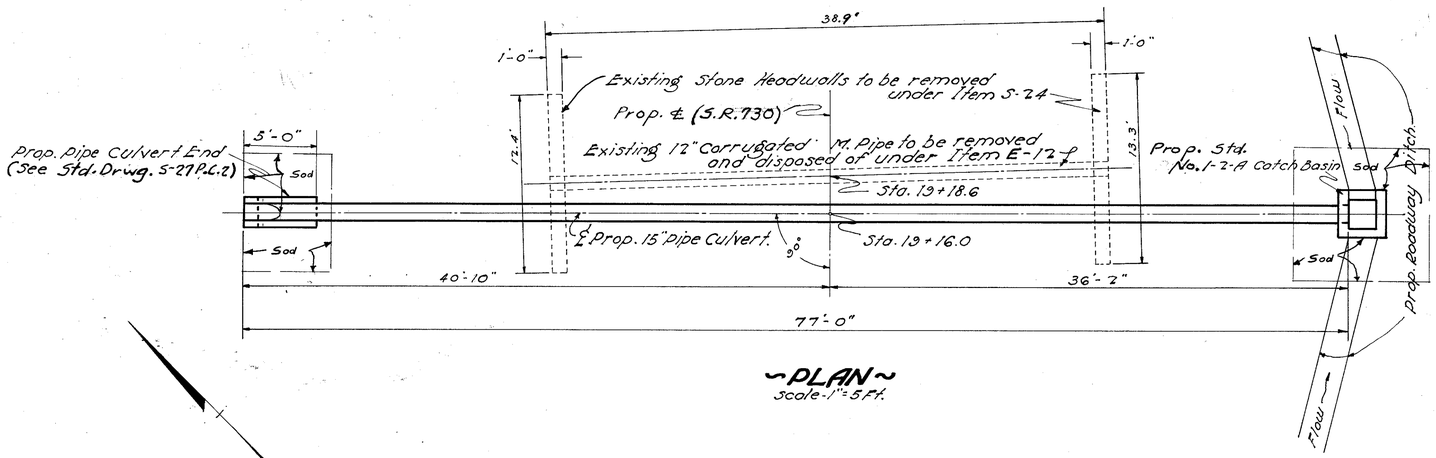
TYPE "A" PAVED GUTTER

DETAILS OF PAVED GUTTER - TYPE "A" & "B"

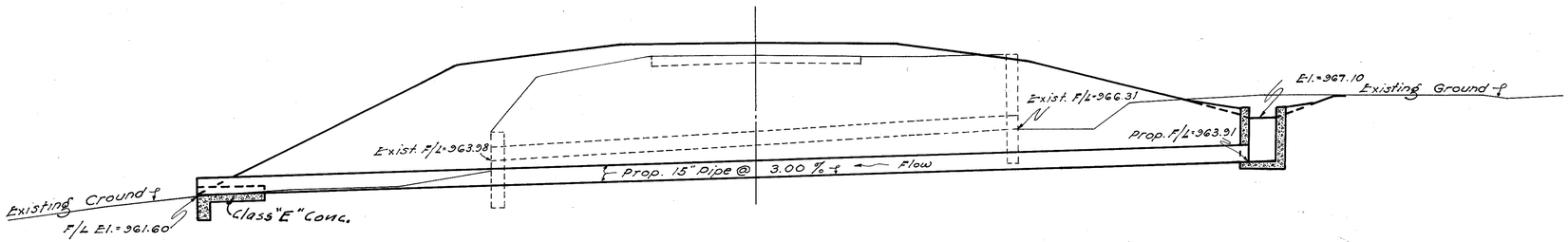
FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(1)	POST WAR

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CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07



~PLAN~
Scale-1"=5Ft.



~SECTION~
Scale-1"=5Ft.

~ESTIMATED QUANTITIES~

Excavation for Structures	Item E-2	39	Cu.Yd.
Concrete for Structures, Class "E"	Item S-1	0.4	Cu.Yd.
15" Pipe for Roadway Culverts	Item S-27	77	Lin. Ft.
Standard No.1-2-A "Catch Basin	Item I-8	1	Each
Removal of Existing Structures (Headwalls)	Item S-24	1	Lump
12" Corr. M. Pipe Removed & Disposed of	Item E-12	39	Lin. Ft.
Sodding	Item L-10	145	Sq Yd.

~CULVERT DATA~

TYPE: Pipe (Standard Drawing S-27-P.C.2, S-27-P.C.3 & I-8 C.B. 1-2-A & B)
SIZE: 15" x 77'-0"
WORK REQUIRED: Remove Existing Structure at Sta. 19+18.6
Build Proposed 15" x 77'-0" Pipe Culvert with Standard No. 1-2-A Catch Basin on Right and Pipe Culvert End on Left.

Drawn by: C.G.P. 1-10-'52
Chkd. by: E.I.F. 1-15-'52

PIPE CULVERT
STA. 19+16.00 (S.R. 730)

1

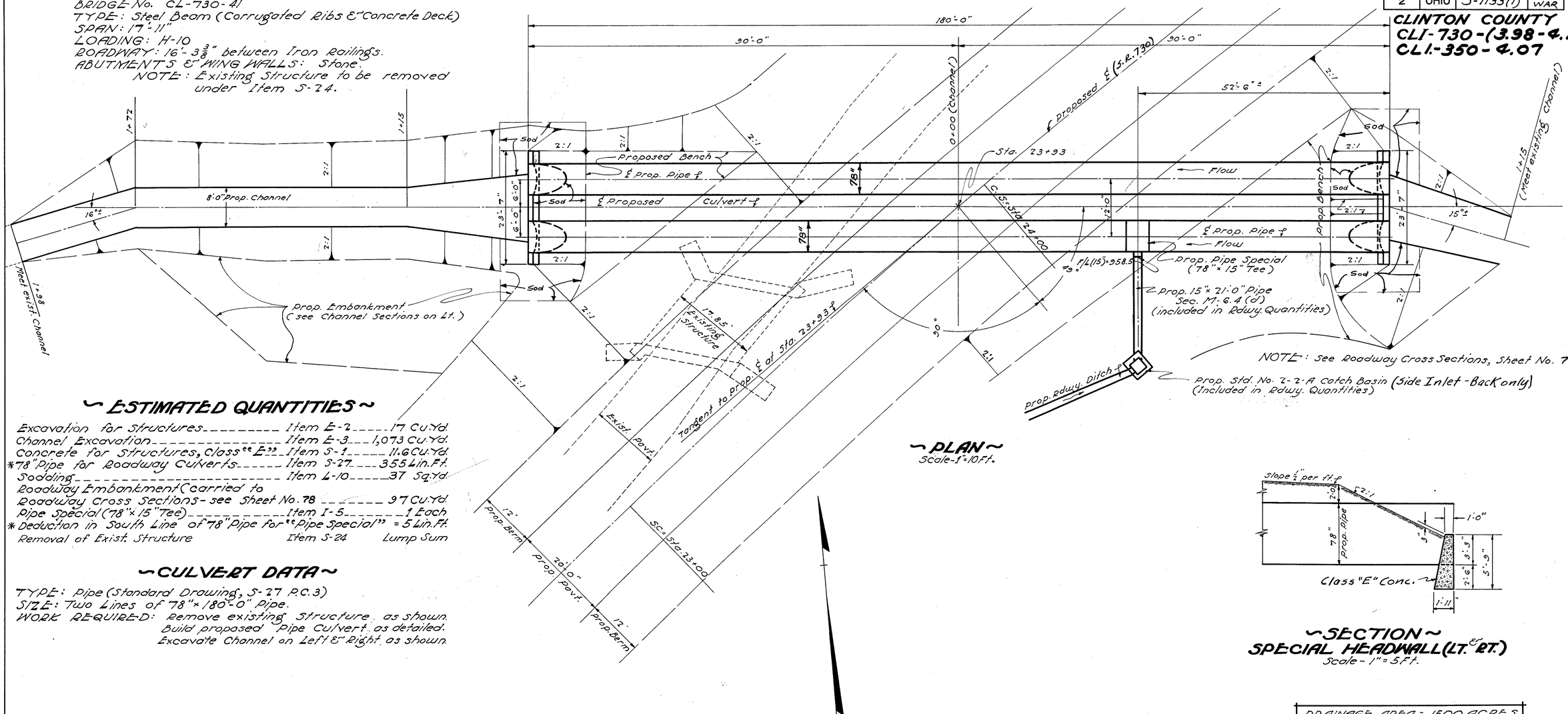
FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(1)	POST WAR

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121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07

~EXISTING BRIDGE DATA~

BRIDGE No. CL-730-41
TYPE: Steel Beam (Corrugated Ribs & Concrete Deck)
SPAN: 17'-11"
LOADING: H-10
ROADWAY: 16'-3 3/8" between Iron Railings.
ABUTMENTS & WING WALLS: Stone.
NOTE: Existing Structure to be removed under Item S-24.



NOTE: See Roadway Cross Sections, Sheet No. 78

~PLAN~
Scale-1"=10Ft.

~ESTIMATED QUANTITIES~

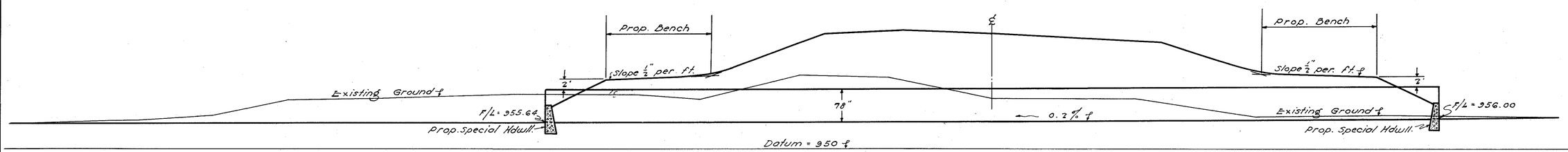
Excavation for Structures	Item E-2	17	Cu.Yd.
Channel Excavation	Item E-3	1,073	Cu.Yd.
Concrete for Structures, Class "E"	Item S-1	11.6	Cu.Yd.
*78" Pipe for Roadway Culverts	Item S-27	355	Lin.Ft.
Sodding	Item L-10	37	Sq.Yd.
Roadway Embankment (Carried to Roadway Cross Sections - see Sheet No. 78		97	Cu.Yd.
Pipe Special (78" x 15" Tee)	Item I-5	1	Each
* Deduction in South Line of 78" Pipe for "Pipe Special"		5	Lin.Ft.
Removal of Exist. Structure	Item S-24	Lump Sum	

~CULVERT DATA~

TYPE: Pipe (Standard Drawing, S-27 P.C.3)
SIZE: Two Lines of 78" x 180'-0" Pipe.
WORK REQUIRED: Remove existing Structure as shown.
Build proposed Pipe Culvert as detailed.
Excavate Channel on Left & Right as shown.

~SECTION~
SPECIAL HEADWALL (LT. & RT.)
Scale-1"=5Ft.

DRAINAGE AREA = 1500 ACRES
Q10 = 470 c.f.s.



~SECTION ON ℄ OF PROPOSED CULVERT~
Scale-1"=10 Ft.

Drawn by: E.I.P. 12-11-'51
Chkd. by: C.E.N. 12-18-'51

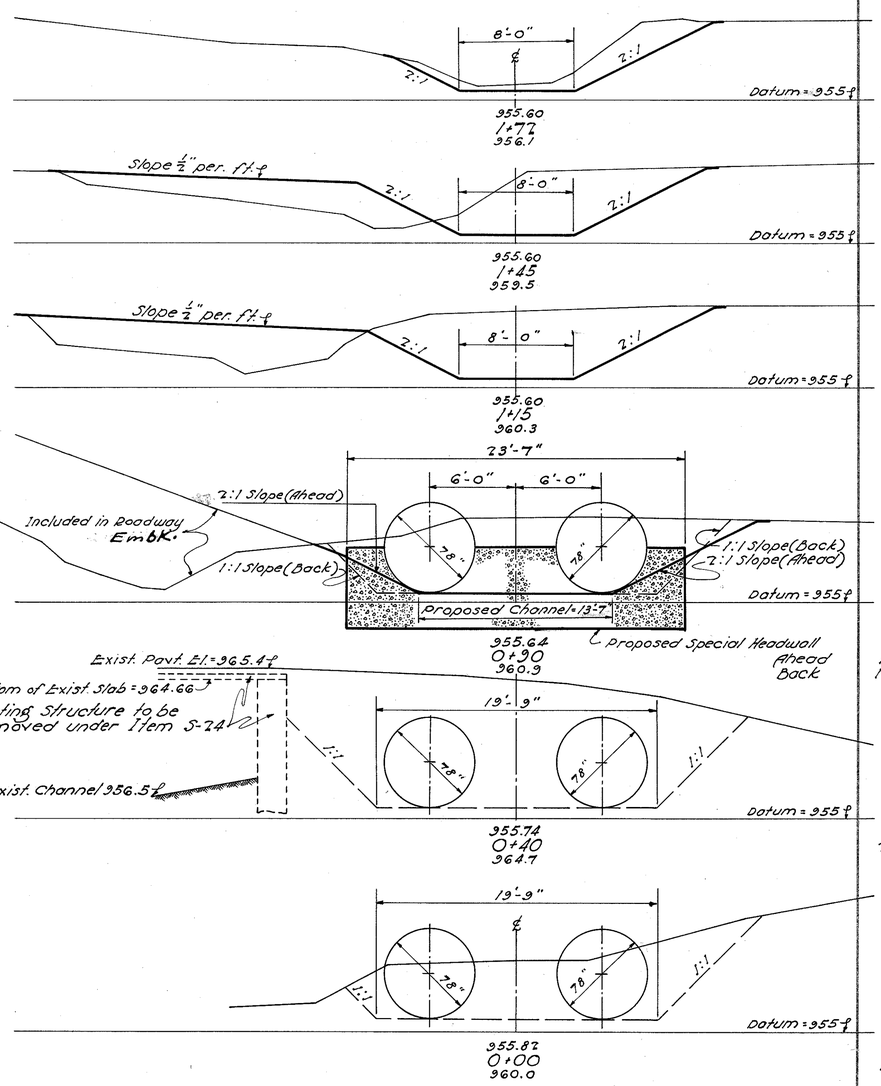
PIPE CULVERT
STA. 23+93 (S.R. 730)
Sheet 1 of 2

2

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(1)	POST WAR

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CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07

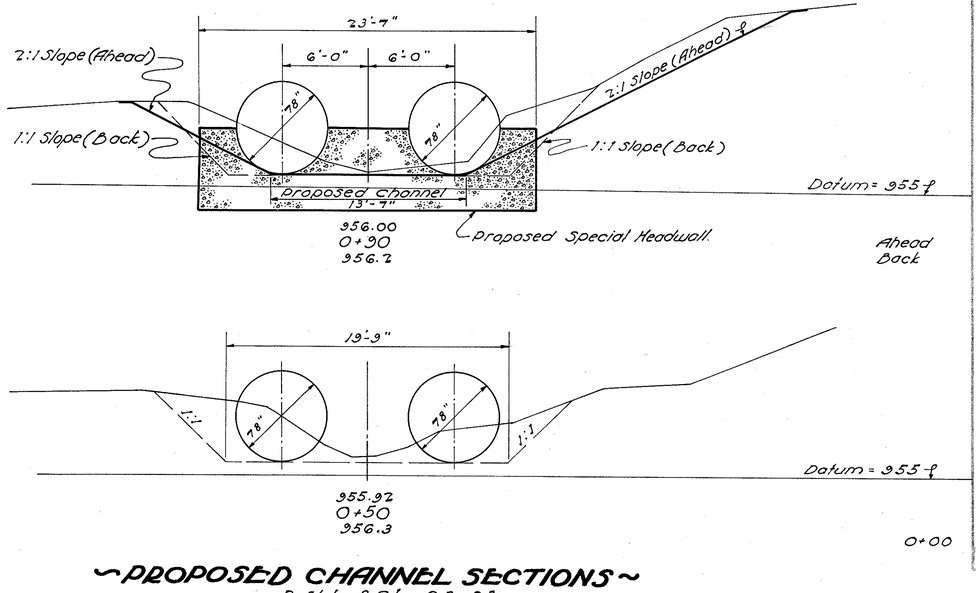


	Channel Excavation		Channel Emb'k.	
	End Area	Volume	End Area	Volume
	0			
		17		0
	25		0	
		38		71
	57		47	
		73		57
	80		57	
		90		74
Ahead	114			
Back	122		0	
		335		0
	240		0	
		257		
	107		0	
	Total	805	Total	*97

~PROPOSED CHANNEL SECTIONS~
Left of Sta. 23+93
Scale {1"=5 Ft. Horiz. / 1"=5 Ft. Vert.

* Carried to Roadway Cross Sections (See Sheet No. 78

1+15 = Zero Section
(Meet Exist. Channel)



	Channel Excavation	
	End Area	Volume
	0	
		32
Ahead	70	
Back	52	
		82
	59	
		154
0+00	107	
	Total	268

~PROPOSED CHANNEL SECTIONS~
Right of Sta. 23+93
Scale- {1"=5 Ft. Horiz. / 1"=5 Ft. Vert.

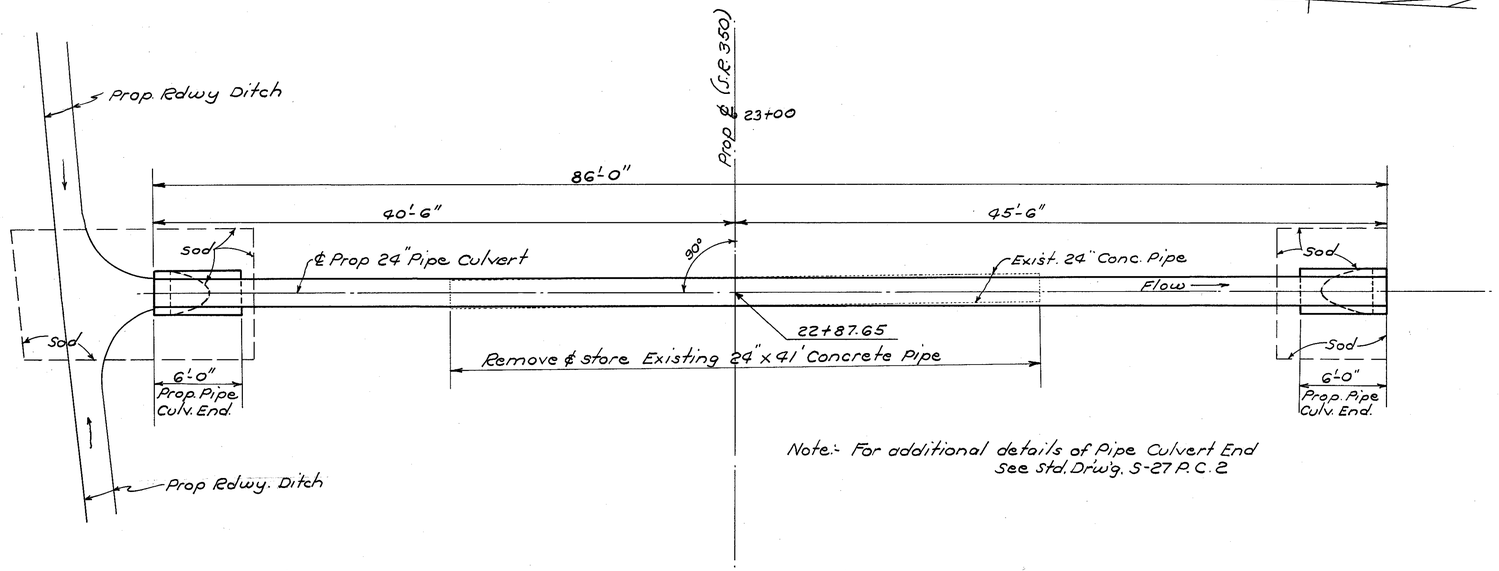
PIPE CULVERT
STA. 23+93 (S.R. 730)
Sheet 2 of 2

2

FED. RD. DIVISION	STATE	FED AID PROJECT	TYPE FUNDS
2	OHIO	S-1133 (1)	POST WAR

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CLINTON COUNTY
CLI. 730-(398-4.14)
CLI. 350-9.07



Note:- For additional details of Pipe Culvert End see Std. Drw'g. S-27 P.C. 2

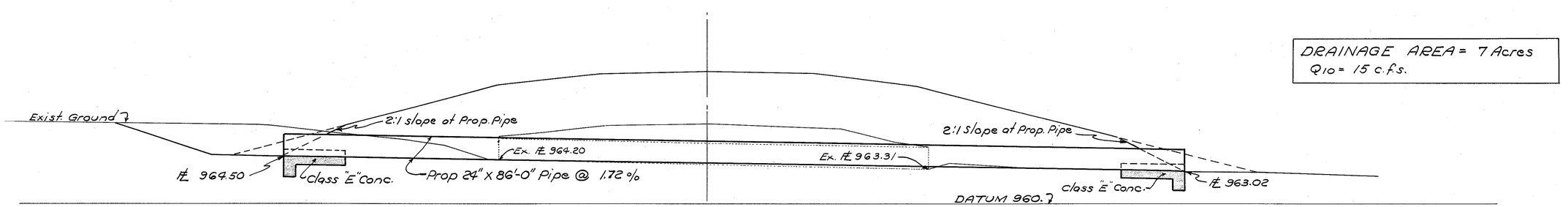
PLAN
Scale 1"=5'-0"

ESTIMATED QUANTITIES

Excavation for Structures	Item E-2	15. Cu.Yd.
Concrete for Structures (Class "E")	Item S-1	1.4 Cu.Yd.
24" Pipe for Roadway Culverts	Item S-27	86 Lin.Ft.
24" Concrete Pipe Removed & Stored	Item E-12	41 Lin.Ft.
Sodding	Item L-10	23 Sq.Yd.

CULVERT DATA.

TYPE:- Pipe (Std. Drwg's. S-27 P.C. 2 & S-27 P.C. 3)
SIZE:- 24" X 86'-0"
WORK REQ'D:- Remove and Store Existing 24" Concrete Pipe.
Build Proposed Pipe Culvert as detailed.



DRAINAGE AREA = 7 Acres
Q10 = 15 c.f.s.

SECTION
Scale 1"=5'-0"

Drawn by	E.P.	Date	3-5-52
Checked by	E.F	Date	3-5-52

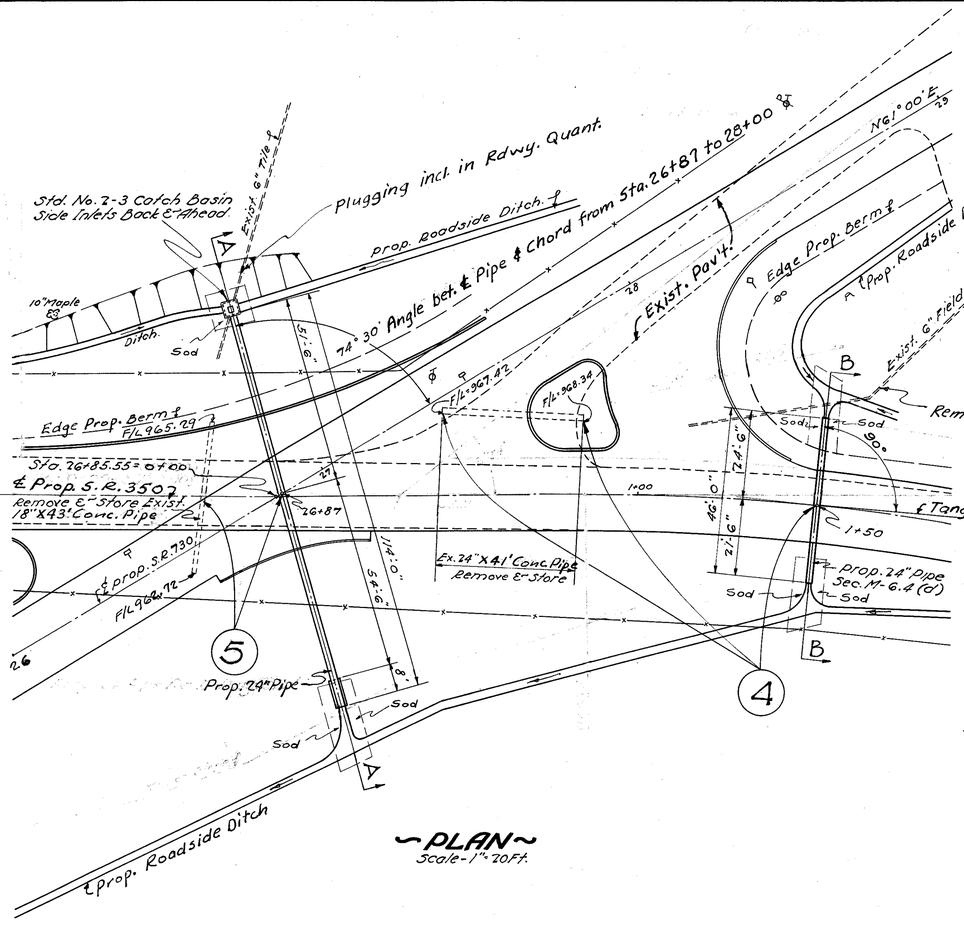
PIPE CULVERT STA. 22+87.65 (S.R. 350)

3

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(1)	POST WAR

98
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CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07



~PLAN~
Scale-1"=20Ft.

4

~ESTIMATED QUANTITIES~

Excavation for Structures ____ Item E-2 ____ 16 Cu.Yd.
24" Pipe for Roadway Culverts, Sec. M6.4(d). Item S-27 ____ 46 Lin.Ft.
24" Concrete Pipe - Removed and Stored. ____ Item E-12 ____ 41 Lin.Ft.
Sodding ____ Item L-10 405 Sq.Yd.

~CULVERT DATA~

TYPE: Pipe (Standard Drawing S-27 P.C. 3)
SIZE: 24" x 46'-0"
WORK REQUIRED: Remove and Store Existing 24" Concrete Pipe (Sta. 0+45 to Sta. 0+86 Left of ℄ of S.R. 350). Build Proposed Pipe Culvert at Sta. 1+50 (S.R. 350) as shown.

Drainage Area = 3 Acres.
Q_{10} = 8 c.f.s.

5

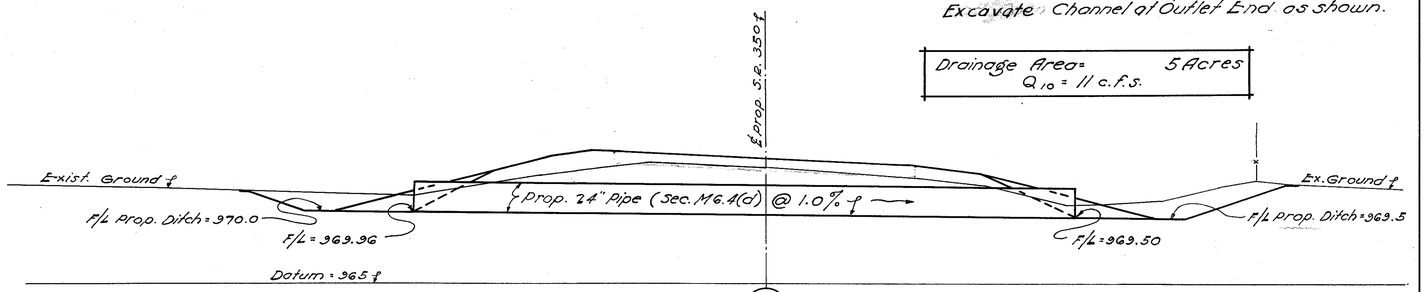
~ESTIMATED QUANTITIES~

Excavation for Structures ____ Item E-2 ____ 63 Cu.Yd.
Channel Excavation ____ Item E-3 ____ 3 Cu.Yd.
Concrete for Structures, Class "E" ____ Item S-1 ____ 0.9 Cu.Yd.
24" Pipe for Roadway Culverts ____ Item S-27 ____ 114 Lin.Ft.
18" Concrete Pipe Removed & Stored ____ Item E-12 ____ 43 Lin.Ft.
Standard No. 2-3 Catch Basin. ____ Item I-8 ____ 1 Each.
Sodding ____ Item L-10 ____ 32 Sq Yd

~CULVERT DATA~

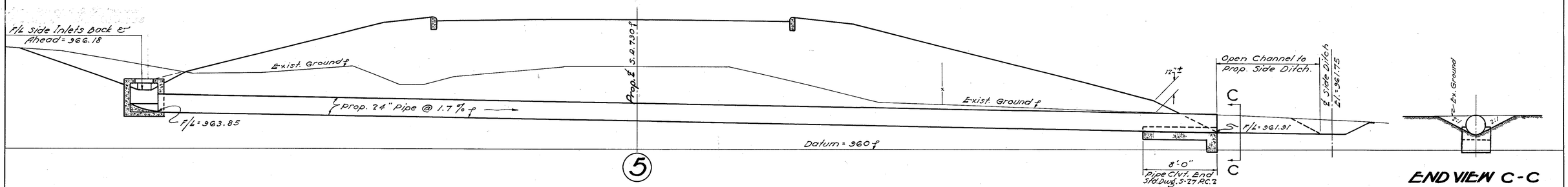
TYPE: Pipe (Standard Drawings S-27 P.C. 2, S-27 P.C. 3 & I-8 C.B. 2-3 & 2-4)
SIZE: 24" x 114'-0"
WORK REQUIRED: Remove and Store Existing 18" Conc. Pipe at Sta. 26+60. Build Proposed Pipe Culvert at Sta. 26+87 with Standard No. 2-3 Catch Basin at Inlet and Pipe Culvert End at Outlet. Excavate Channel at Outlet End as shown.

Drainage Area = 5 Acres
Q_{10} = 11 c.f.s.



4

SECTION B-B ON ℄ PROP. 24" PIPE (Rt. of Sta. 26+85.55)
Scale-1"=5Ft.



5

SECTION A-A ON ℄ PROP. 24" PIPE (Sta. 26+87)
Scale-1"=5Ft.

END VIEW C-C

Drawn by: C.E.N. 1-17-'52
Chkd. by: E.I.F. 1-22-'52

SIDE ROAD PIPE CULVERT STA. 26+85.55 (RT.) ____ 4
PIPE CULVERT STA. 26+87 ____ 5

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	FAP A10 S-1133(1)	POST WAR

99
121

CLINTON COUNTY
CLI-730 (3.98-4.14)
CLI-350 - 4.07

~ESTIMATED QUANTITIES~

Excavation for structures	Item E-7	34 CU.Yd.
Channel Excavation	Item E-3	30 CU.Yd.
Concrete for Structures (Class "C")	Item S-1	5.8 CU.Yd.
Reinforcing Steel	Item S-4	861 Lb.
36" Pipe for Roadway Culverts	Item S-27	57 Lin.Ft.
Removal of Existing Structures	Item S-24	Lump
8" Pipe for Storm Sewers	Item I-7	92 Lin.Ft.
Sodding	Item L-10	93 Sq.Yd.

~CULVERT DATA~

TYPE: Pipe (Standard Drawing S-27 P.C.3)
SIZE: 36" x 57'-0"
WORK REQUIRED: Remove Existing Structure Left of Proposed ℄ as shown. Build Proposed Pipe Culvert as detailed. Excavate Channel Left & Right as shown. Build Proposed 8" (I-7) Pipe as shown.

~EXISTING STRUCTURE~

CULVERT No. CL 730-44 Concrete Slab Top. Stone Wing Walls - Concrete Cap on 1.3' Stone Abutments. 2" Iron Pipe Rail at Outlet End.

PROPOSED CHANNEL SECTIONS
LEFT OF STA. 39+53.80
1"=5 Ft. Hor.
Scale-1"=5 Ft. Vert.

0+85 = Zero Section
For Channel Excavation on Right
Existing Concrete Slab & Stone Abutments (Removed under Item S-24.)
Existing Ground
Datum = 970 ℄
972.4

0+78.3
972.4
Existing Concrete Slab & Stone Abutments (Removed under Item S-24)
Pavement removed in Roadway Quants.
Existing Ground
Datum = 970 ℄
972.5

0+62
972.5
5'-0" Channel
Datum = 970 ℄
972.5

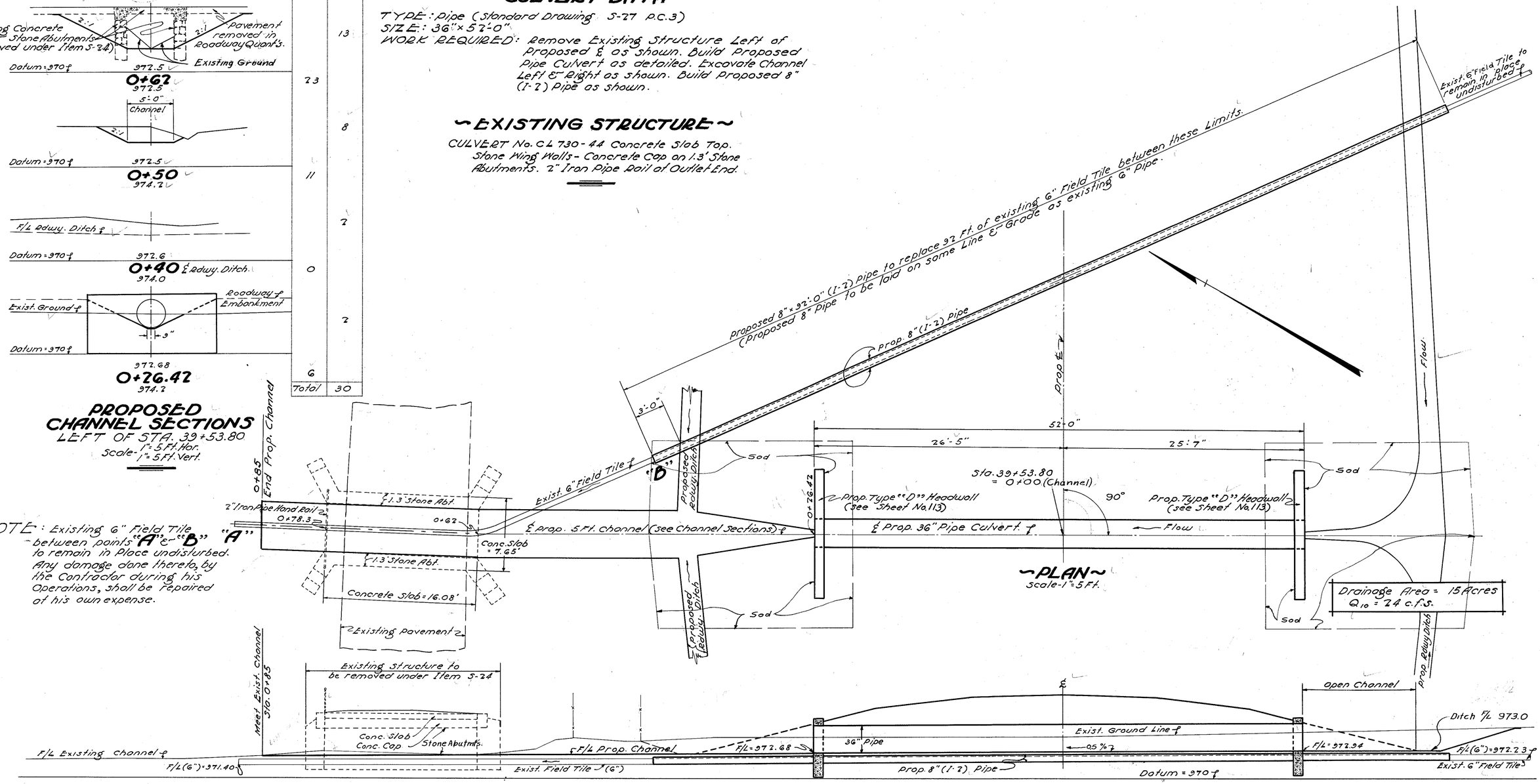
0+50
974.2
℄ Rdwy. Ditch ℄
Datum = 970 ℄
972.6

0+40 ℄ Rdwy. Ditch.
974.0
Roadway ℄ Embankment
Exist. Ground ℄
3"
Datum = 970 ℄
972.68

0+26.42
974.2

Channel End Area	Excav. Volume
0	
	2
2	3
	13
23	
	8
11	
	2
0	
	2
6	
Total	30

NOTE: Existing 6" Field Tile between points "A" & "B" to remain in Place undisturbed. Any damage done thereto by the Contractor during his Operations, shall be repaired at his own expense.



~PLAN~
Scale-1"=5 Ft.

~SECTION~
Scale-1"=5 Ft.

Drawn by: C.E.N	12-3-'51	
Chkd. by: C.G.P.	12-19-'51	
Approved		

PIPE CULVERT STA. 39+53.80

6

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(1)	POST WAR

100
121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07

~ESTIMATED QUANTITIES~

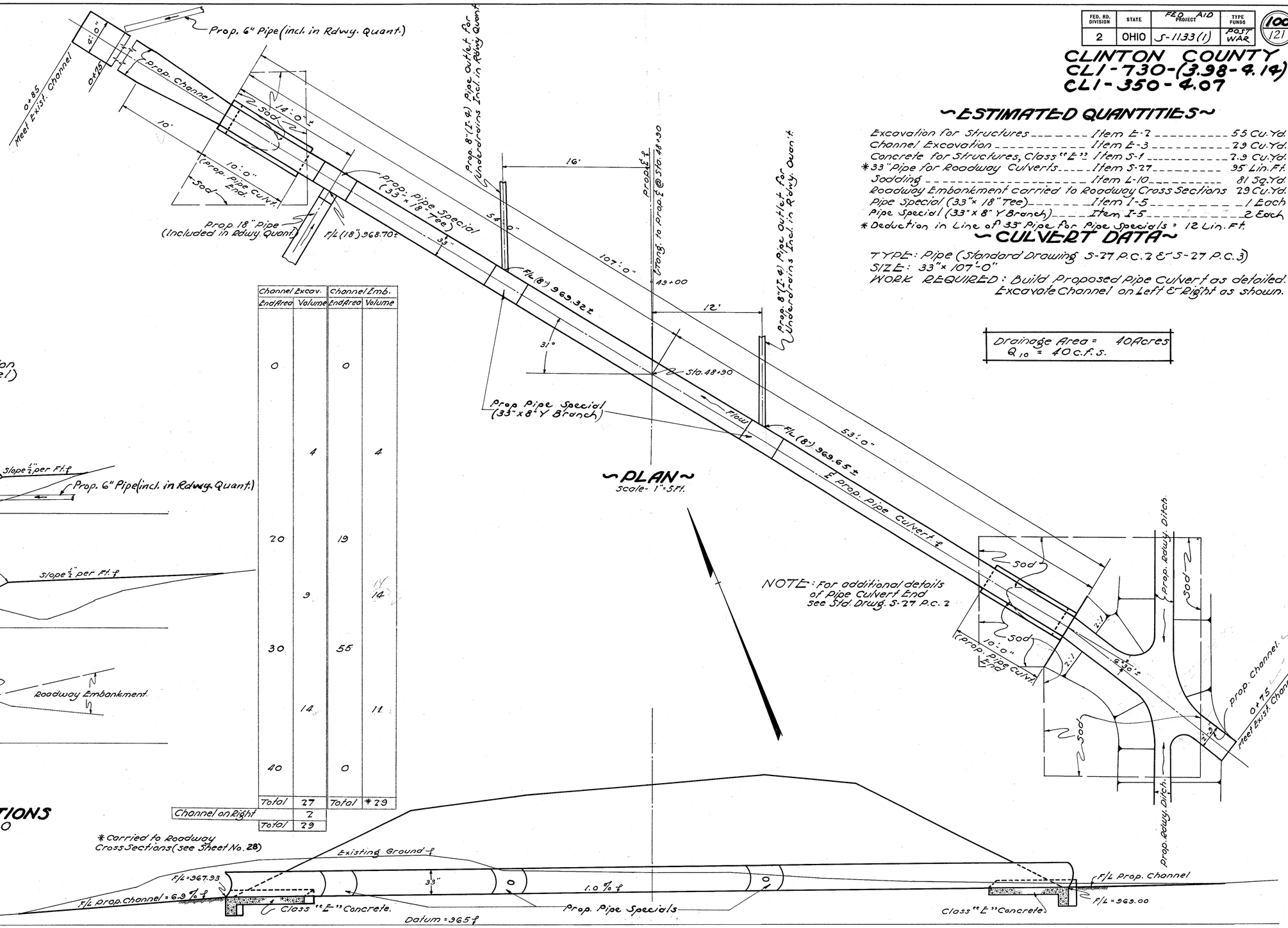
Excavation for Structures	Item E-7	55 Cu.Yd.
Channel Excavation	Item E-3	29 Cu.Yd.
Concrete for Structures, Class "E"	Item S-1	7.9 Cu.Yd.
*33" Pipe for Roadway Culverts	Item S-27	95 Lin.Ft.
Sodding	Item L-10	81 Sq.Yd.
Roadway Embankment carried to Roadway Cross Sections		29 Cu.Yd.
Pipe Special (33"x 18" Tee)	Item I-5	1 Each
Pipe Special (33"x 8" Y Branch)	Item I-5	2 Each

* Deduction in Line of 33" Pipe for Pipe Specials = 12 Lin.Ft.

~CULVERT DATA~

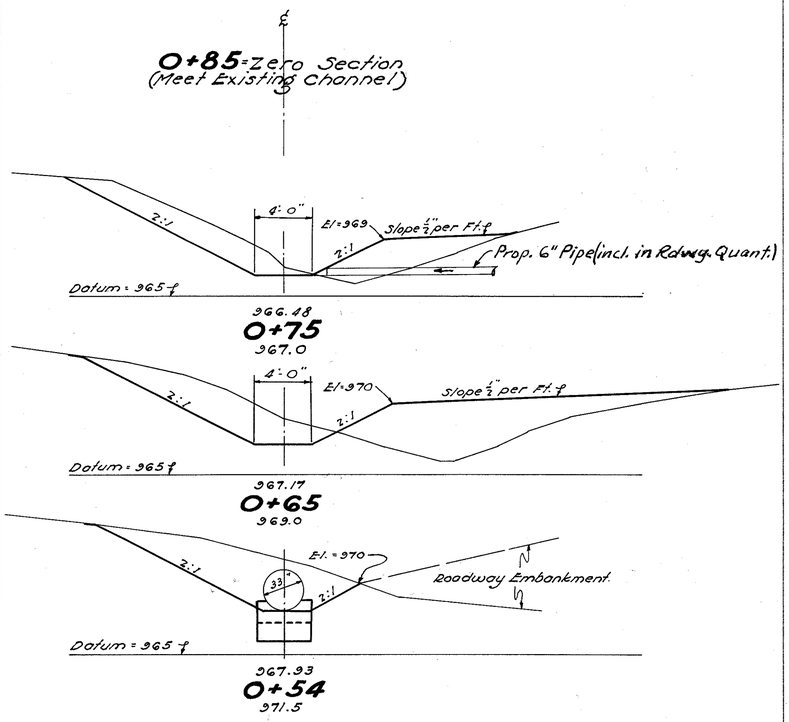
TYPE: Pipe (Standard Drawing S-27 P.C.2 & S-27 P.C.3)
SIZE: 33"x 107'-0"
WORK REQUIRED: Build Proposed Pipe Culvert as detailed. Excavate Channel on Left & Right as shown.

Drainage Area = 40 Acres
Q_{10} = 40 C.F.S.



~PLAN~
Scale- 1"=5Ft.

NOTE: For additional details of Pipe Culvert End see Std. Drwg. S-27 P.C. 2



PROPOSED CHANNEL SECTIONS
Left of Sta. 48+90
Scale- 1"=5Ft. Hor.
1"=5Ft. Vert.

Channel Excav. End Area	Channel Excav. Volume	Channel Emb. End Area	Channel Emb. Volume
0		0	
	4		4
20		19	
	9		14
30		55	
	14		11
40		0	
Total	27	Total	*29
Channel on Right	2		
Total	29		

* Carried to Roadway Cross Sections (see Sheet No. 28)

~SECTION~
Scale- 1"=5Ft.

Drawn by: E.P. 12-17-'51
Checked by: C.G.P. 12-20-'51

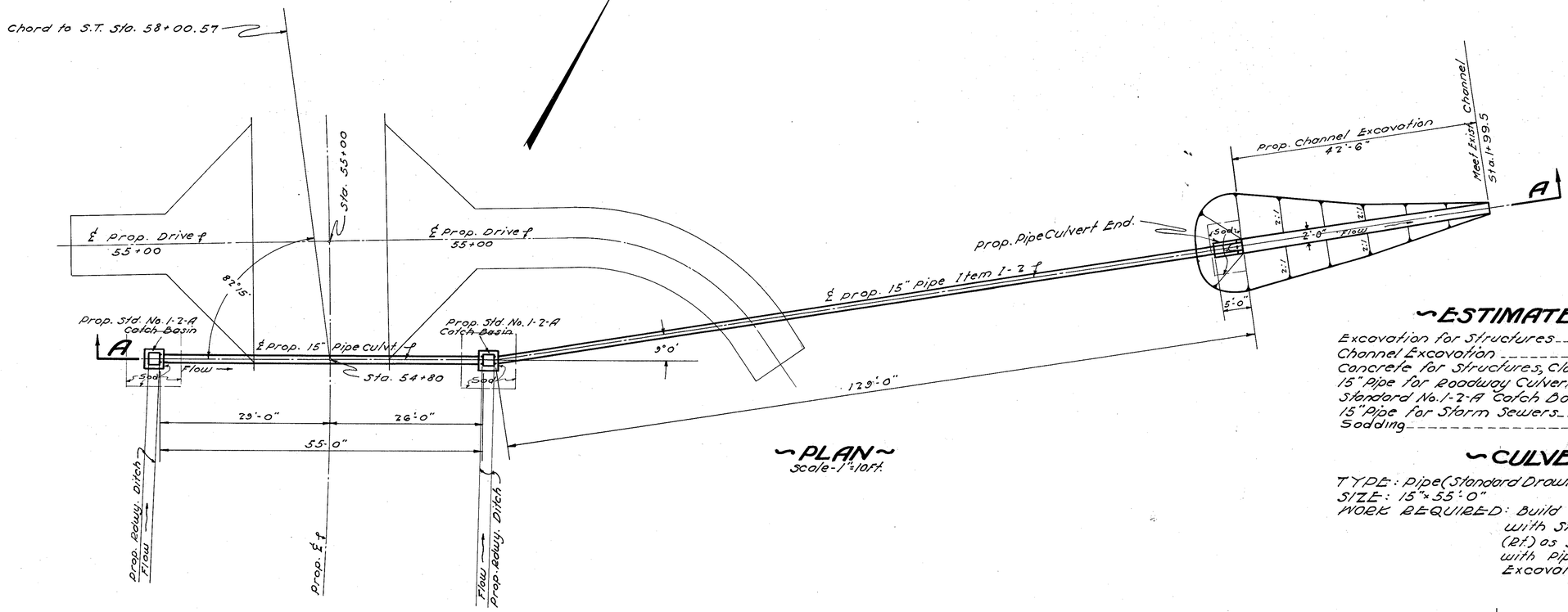
PIPE CULVERT STA. 48+90

7

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(1)	POST WAR

101
121

CLINTON COUNTY
CLI-730 (3.98-4.14)
CLI-350-4.07



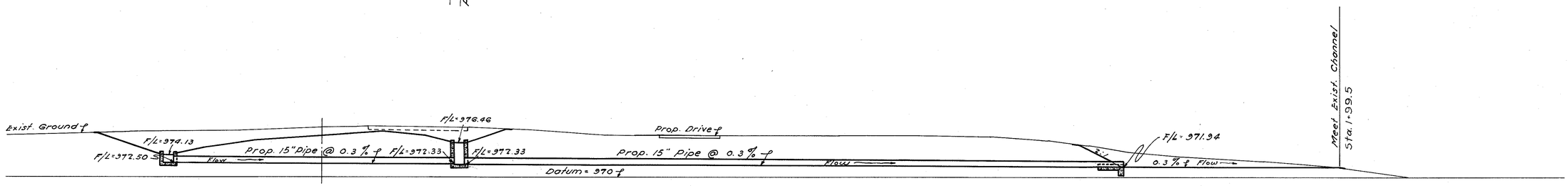
~PLAN~
Scale-1"=10ft.

~ESTIMATED QUANTITIES~

Excavation for Structures	Item E-2	24 Cu.Yd.
Channel Excavation	Item E-3	24 Cu.Yd.
Concrete for Structures, Class "E"	Item S-1	0.4 Cu.Yd.
15" Pipe for Roadway Culverts	Item S-27	55 Lin.Ft.
Standard No. 1-2-A Catch Basin	Item 1-8	2 Each
15" Pipe for Storm Sewers	Item 1-2	129 Lin.Ft.
Sodding	Item L-10	23 Sq.Yd.

~CULVERT DATA~

TYPE: Pipe (Standard Drawings S-27-P.C.2, S-27-P.C.3, 1-8C.B 1-2-A & B)
SIZE: 15" x 55'-0"
WORK REQUIRED: Build Proposed Pipe Culvert at Sta. 54+80 with Standard No. 1-2-A Catch Basins (Lt.) & (Rt.) as shown. Build Proposed Storm Sewer with Pipe Culvert End (Rt.) as shown. Excavate Channel (Rt.) as shown.



~SECTION A-A~
Scale-1"=10ft.

Drawn by C.G.P. 1-7-'52
Checked by E.I.F. 1-23-'52

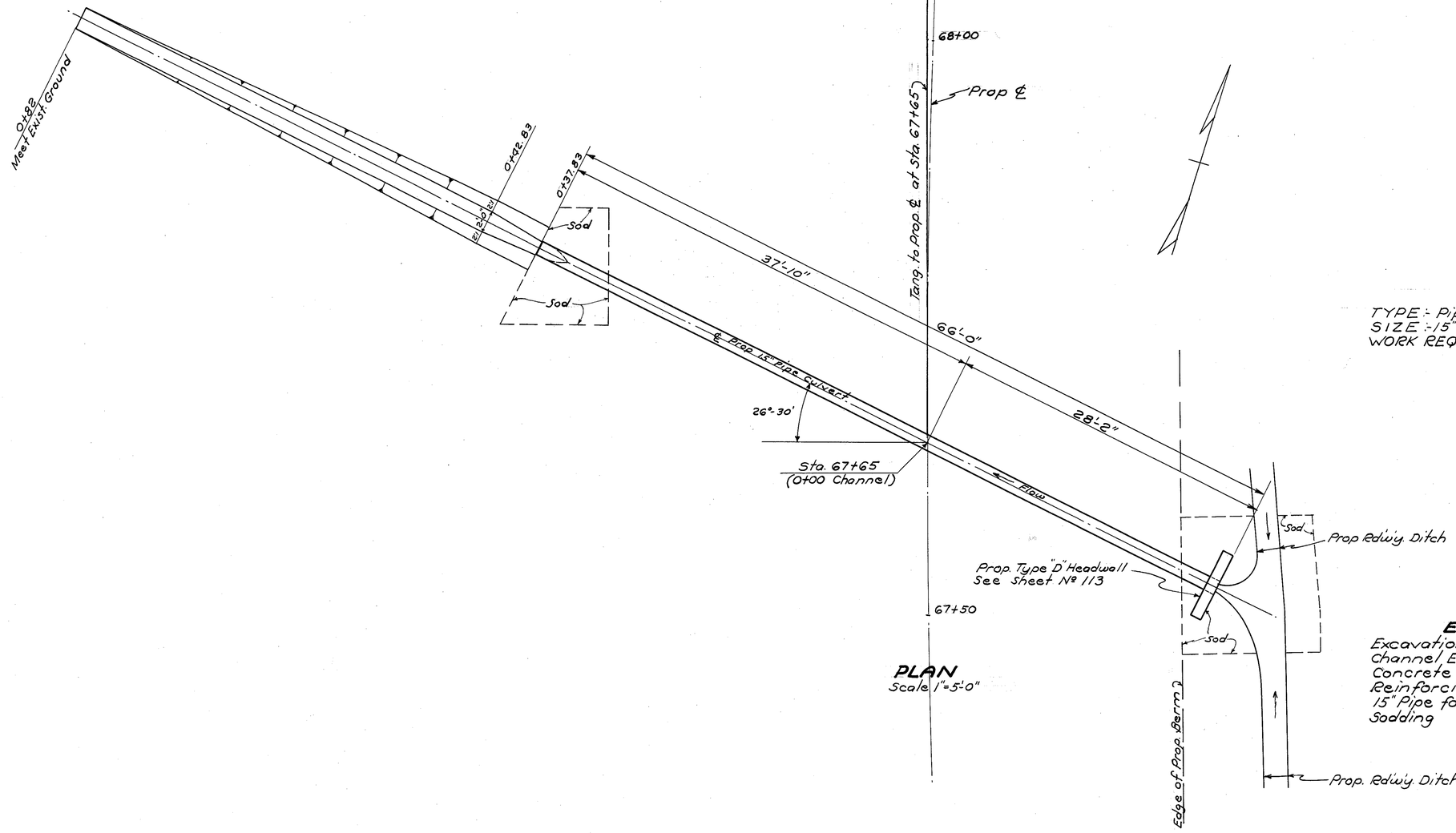
PIPE CULVERT
STA. 54+80

8

FED. RD. DIVISION	STATE	FED AID PROJECT	TYPE FUNDS
2	OHIO	S-1133 (1)	POST WAR

102
121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07



PLAN
Scale 1"=5'-0"

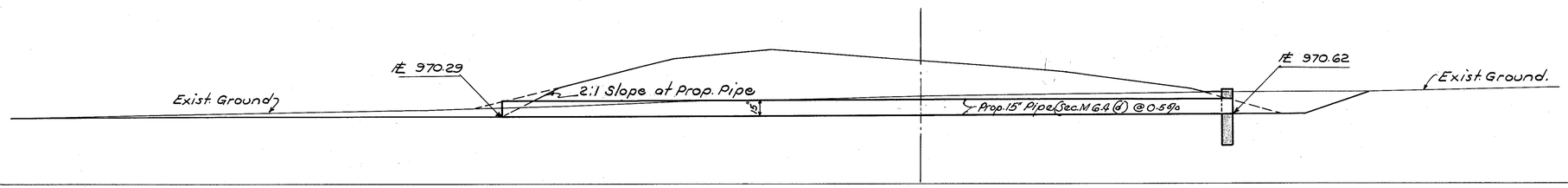
CULVERT DATA

TYPE :- Pipe (Std. Drw'g. S-27 P.C. 3)
SIZE :- 15" X 66'-0"
WORK REQ'D.:- Build Proposed Pipe Culvert as detailed
Excavate Channel Lt. as shown.

ESTIMATED QUANTITIES

Excavation for Structures	Item E-2	12	Cu.Yd.
Channel Excavation	Item E-3	2	Cu.Yd.
Concrete for Structures (Class "C")	Item S-1	1.0	Cu.Yd.
Reinforcing Steel	Item S-4	23	Lb.
15" Pipe for Roadway Culverts (Sec. M-6.9 (d))	Item S-27	66	Lin.Ft.
Sodding	Item L-10	22	Sq.Yd.

Drainage Area	= 2 Acres
Q10	= 4 c.f.s.



SECTION
Scale 1"=5'-0"

Drawn by	E.I.F.	Date 2-28-52
Checked by	E.P.	Date 3-5-52
Approved by		Date

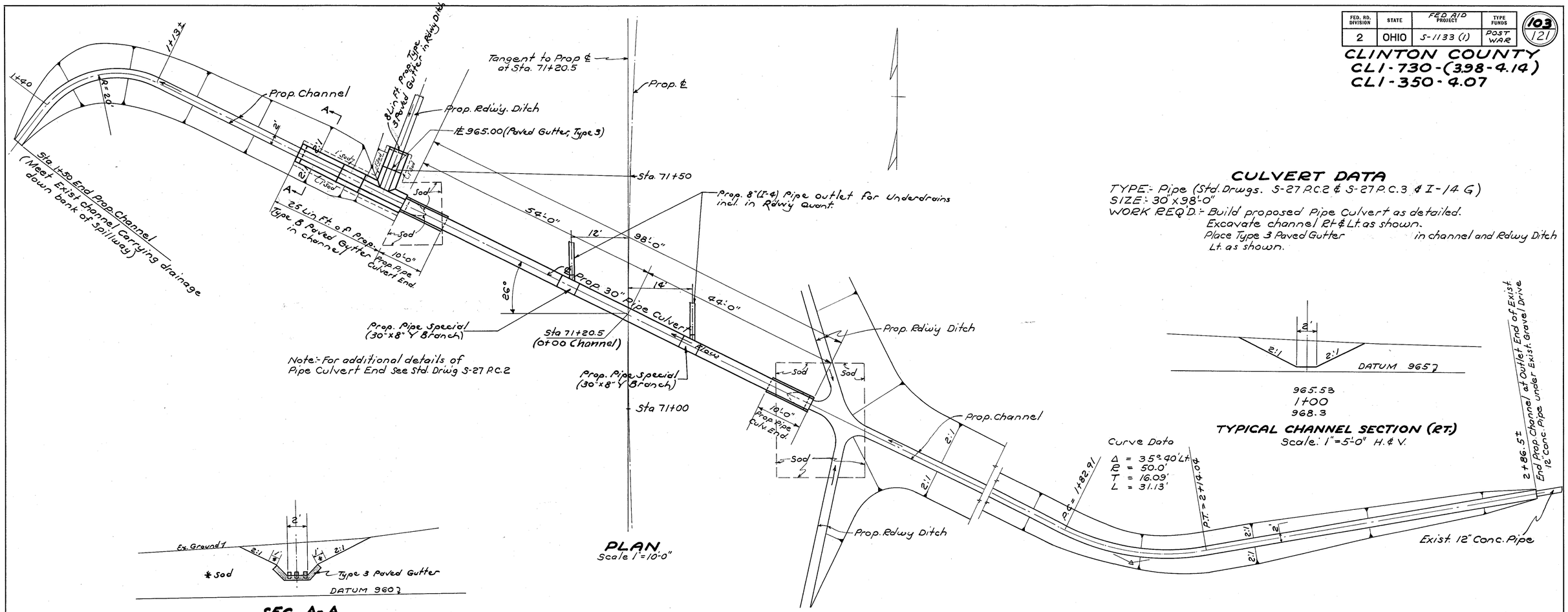
PIPE CULVERT STA. 67+65

9

FED. RD. DIVISION	STATE	FED AID PROJECT	TYPE FUNDS
2	OHIO	S-1133 (1)	POST WAR

103
121

CLINTON COUNTY
CL1-730-(3.98-4.14)
CL1-350-4.07

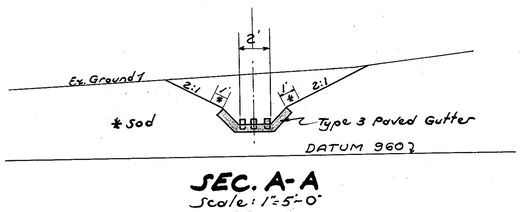


CULVERT DATA

TYPE:- Pipe (Std. Drwgs. S-27 P.C.2 & S-27 P.C.3 & I-14 G)
SIZE:- 30"x98'-0"
WORK REQ'D.:- Build proposed Pipe Culvert as detailed.
Excavate channel Rt & Lt as shown.
Place Type 3 Paved Gutter in channel and Rdwy Ditch Lt. as shown.

965.53
1+00
968.3

TYPICAL CHANNEL SECTION (RT.)
Scale: 1"=5'-0" H. & V.



SEC. A-A
Scale: 1"=5'-0"

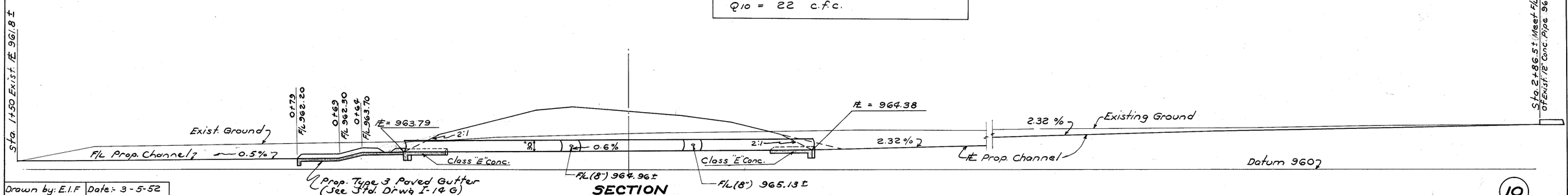
PLAN
Scale 1"=10'-0"

ESTIMATED QUANTITIES.

Excavation for Structures	Item E-2	66	Cu.Yd.
Channel Excavation	Item E-3	154	Cu.Yd.
Concrete for Structures (Class "E")	Item S-1	2.7	Cu.Yd.
30" Pipe for Roadway Culverts	Item S-27	90	Lin.Ft.
Paved Gutter, Type 3	Item I-14	33	Lin.Ft.
Sodding	Item L-10	75	Sq.Yd.
Δ Pipe Special (30"x8" Y Branch)	Item I-5	2	Each

Δ Deduction in Line of 30" Pipe for Pipe Specials = 8 Lin. Ft.

DRAINAGE AREA = 20 Acres
Q10 = 22 c.f.c.



SECTION
Scale 1"=10'-0"

Drawn by: E.I.F	Date:- 3-5-52
Checked by: E.P.	Date:- 3-7-52
Approved by:	Date:-

10

PIPE CULVERT STA. 71+20.5

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133 (1)	POST WAR

104
121

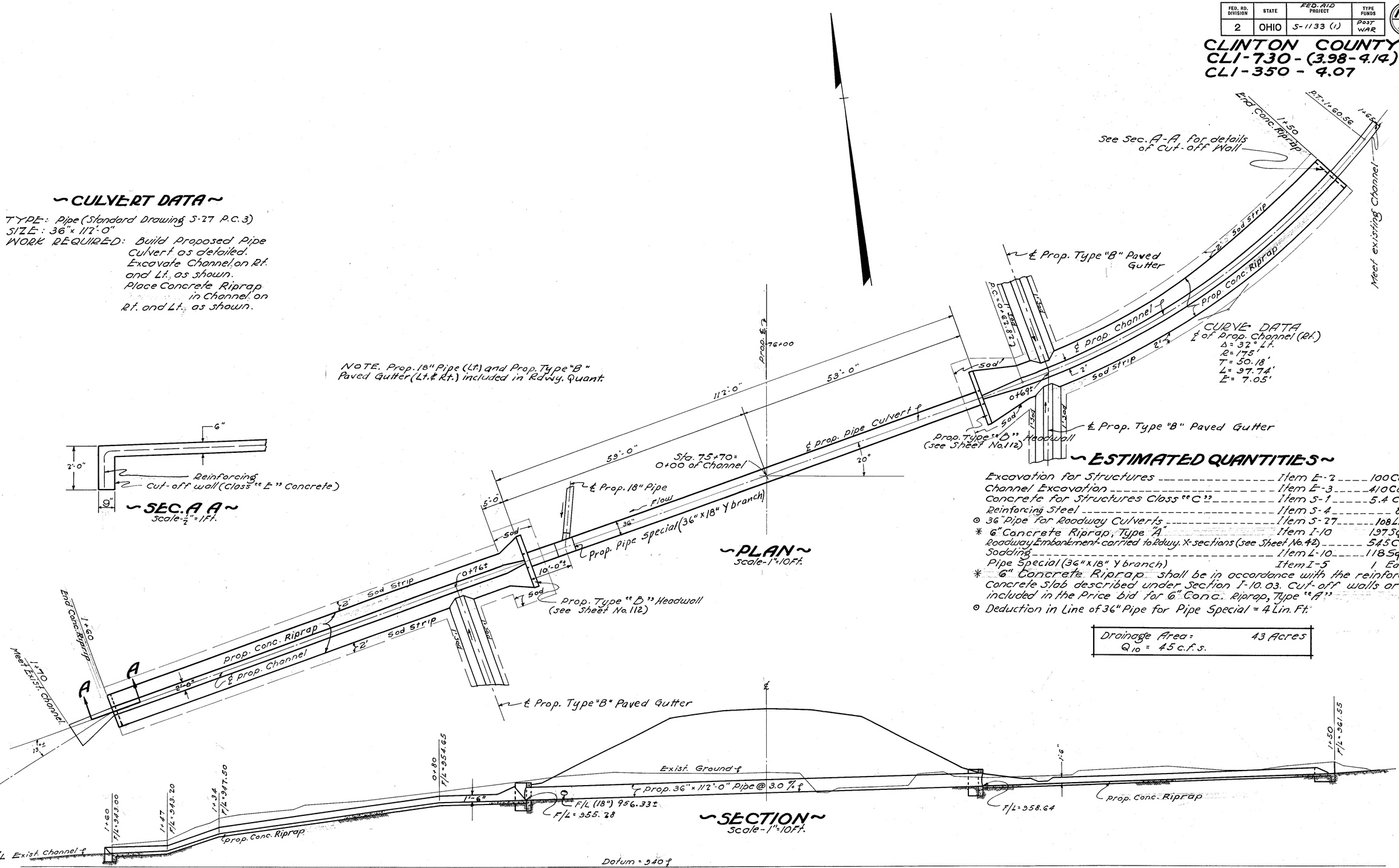
CLINTON COUNTY
CLI-730 - (3.98-4.14)
CLI-350 - 4.07

~CULVERT DATA~

TYPE: Pipe (Standard Drawing S-27 P.C.3)
SIZE: 36" x 112'-0"
WORK REQUIRED: Build Proposed Pipe Culvert as detailed. Excavate Channel on Rt. and Lt. as shown. Place Concrete Riprap in Channel on Rt. and Lt. as shown.

NOTE. Prop. 18" Pipe (Lt.) and Prop. Type "B" Paved Gutter (Lt. & Rt.) included in Rdwy. Quant.

~SEC. A A~
Scale-1/2"=1Ft.



~PLAN~
Scale-1"=10Ft.

~SECTION~
Scale-1"=10Ft.

~ESTIMATED QUANTITIES~

Excavation for Structures	Item E-2	100 Cu.Yd.
Channel Excavation	Item E-3	410 Cu.Yd.
Concrete for Structures Class "C"	Item S-1	5.4 Cu.Yd.
Reinforcing Steel	Item S-4	827 Lb.
⊙ 36" Pipe for Roadway Culverts	Item S-27	108 Lin.Ft.
* 6" Concrete Riprap, Type "A"	Item I-10	1375 Sq.Yd.
Roadway Embankment-carried to Rdwy. X-sections (see Sheet No. 42)		545 Cu.Yd.
Sodding	Item L-10	1185 Sq.Yd.
Pipe Special (36" x 18" Y branch)	Item I-5	1 Each

* 6" Concrete Riprap shall be in accordance with the reinforced Concrete Slab described under Section I-10.03. Cut-off walls are included in the Price bid for 6" Conc. Riprap, Type "A"
⊙ Deduction in Line of 36" Pipe for Pipe Special = 4 Lin. Ft.

Drainage Area =	43 Acres
Q_{10} = 45 c.f.s.	

Drawn by: E.P. 1-23-'52
Checked by: E.I.F. 1-25-'52

PIPE CULVERT
STA. 75+70
Sheet 1 of 3

11

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133 (1)	DOST WAR

105
121

CLINTON COUNTY
CLI-730 - (3.98 - 4.14)
CLI-350 - 4.07

	Embankment		Channel Excav.	
	End Area	Vol.	End Area	Vol.
	0		0	
		0		1
	0		8	
		0		24
	0		24	
		2		37
	9		131	
		22		63
	81		129	
		33		39
	117		106	
		126		90
	156		88	
		142		51
	227		50	
		88		50
	0		78	
	Total	413	Total	331

* Carried to Roadway Cross Sections (See Sheet No. #2)

PROPOSED
CHANNEL SECTIONS
LEFT OF STA. 75+70
scale 1"=5 Ft. Hor.
1"=5 Ft. Vert.

PIPE CULVERT
STA. 75+70
Sheet 2 of 3

11

FED. RD. DIVISION	STATE	FED AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(1)	POST WAR

106
121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07

Embankment	Excav.	0	0	0	0	30	65	62	69	40	28	*132
	Volume	0	0	0	0	30	65	62	69	40	28	70101
Channel	Excav.	0	4	15	17	16	21	30	23	19	14	16	79
	Volume	0	4	20	37	53	74	104	127	146	160	176	70101

Ahead Back

* Carried to Roadway Cross Sections (see Sheet No 12)

PROPOSED CHANNEL SECTIONS
EIGHT OF STA. 75+70
Scale - 1"=5 Ft. Hor.
1"=5 Ft. Vert.

PIPE CULVERT
STA. 75+70
Sheet 3 of 3

11

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(1)	POST WAR

107
121

CLINTON COUNTY
CLI-730 - (3.98-4.14
CLI-350 - 4.07

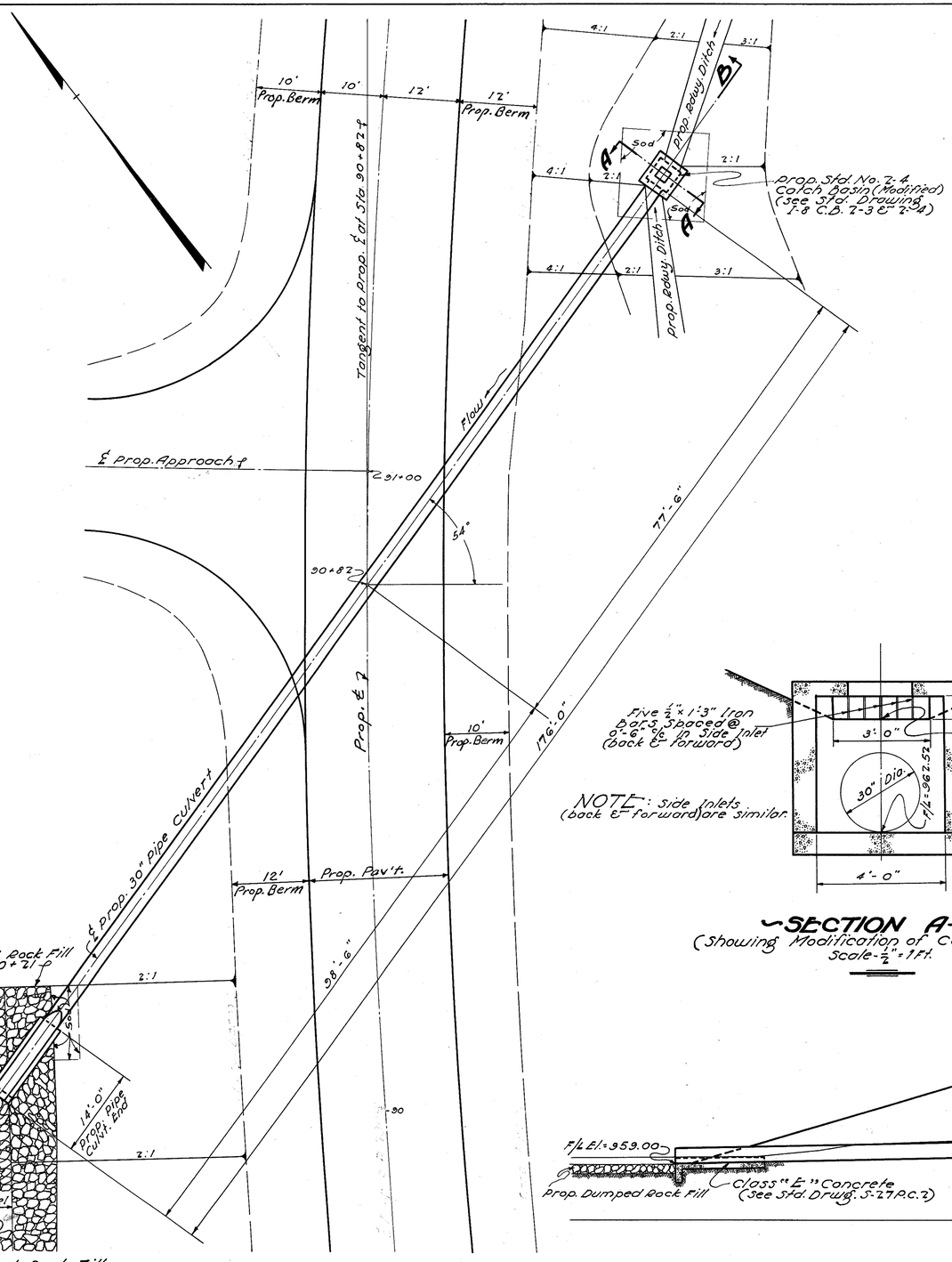
ESTIMATED QUANTITIES

Excavation for Structures	Item E-7	175 Cu.Yd.
Concrete for Structures, Class "E"	Item S-1	1.8 Cu.Yd.
30" Pipe for Roadway Culverts	Item S-27	176 Lin. Ft.
Standard No. 7-4 Catch Basin (Modified)	Item 1-8	1 Each
Sodding	Item L-10	32 Sq.Yd.

CULVERT DATA

TYPE: Pipe (Standard Drawing S-27 P.C.1, S-27 P.C.3, 1-8 C.B. 7-3E 7-4)
SIZE: 30" x 176'-0"
WORK REQUIRED: Build Proposed Pipe Culvert as detailed, including Standard No. 7-4 Catch Basin (Modified) at Inlet and Pipe Culvert End at Outlet.

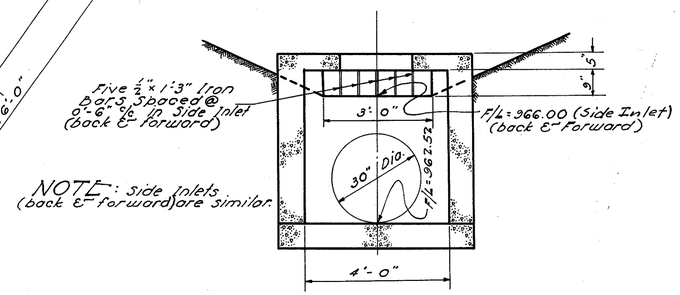
Drainage Area = 40 Acres.
Q_{10} = 50 c.f.s.



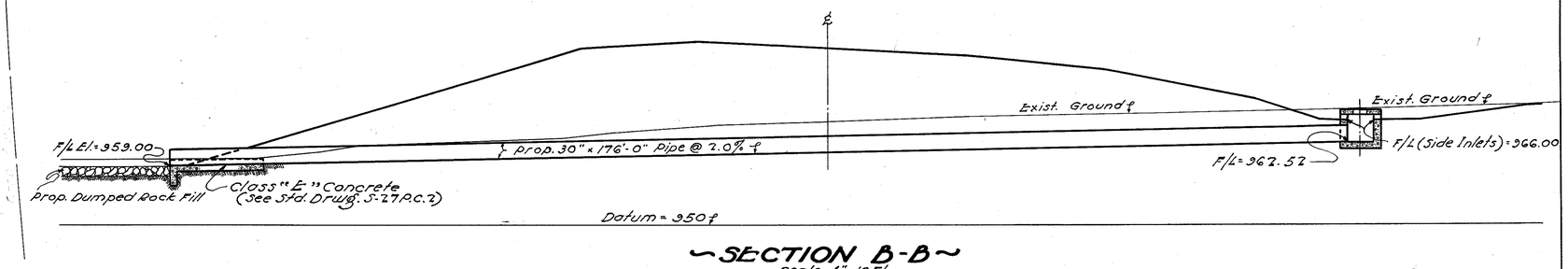
NOTE: Dumped Rock Fill & Channel Excavation are included in Rdwy. Quantities.

Drawn by E.P. 1-24-'57
Chkd. by C.E.N. 1-24-'57

PLAN
Scale-1"=10Ft.



SECTION A-A
(Showing Modification of Catch Basin)
Scale-½"=1Ft.



SECTION B-B
Scale-1"=10Ft.

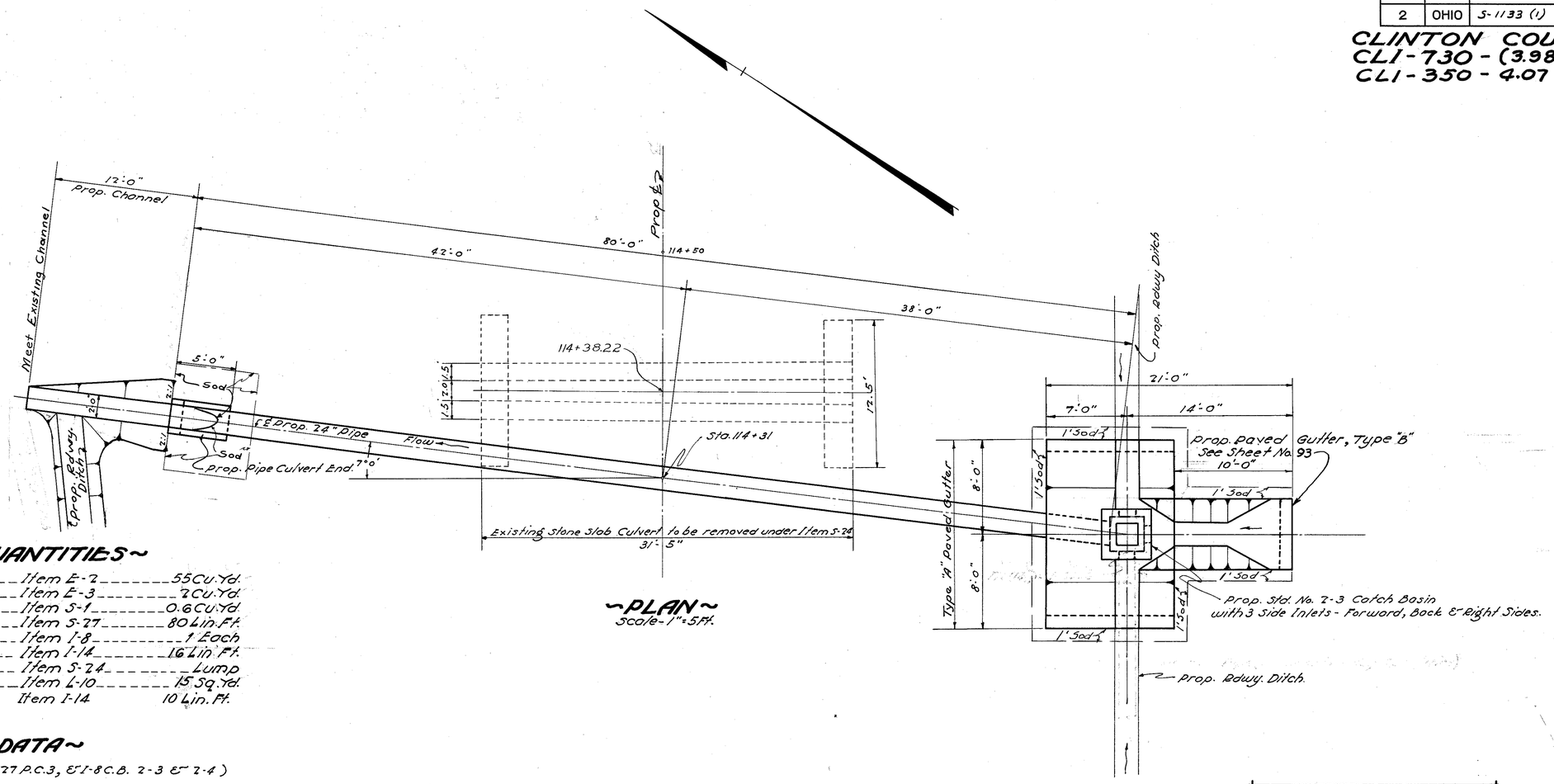
PIPE CULVERT
STA. 90+82

12

FED. RD. DIVISION	STATE	FED AID PROJECT	TYPE FUNDS
2	OHIO	S-1133 (1)	POST WAR

108
121

CLINTON COUNTY
CLI-730 - (3.98-4.14)
CLI-350 - 4.07



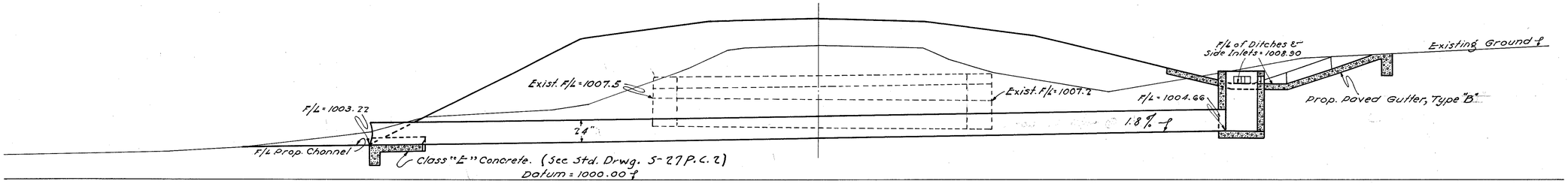
~PLAN~
Scale-1"=5Ft.

~ESTIMATED QUANTITIES~

Excavation for Structures	Item E-2	55 Cu.Yd.
Channel Excavation	Item E-3	2 Cu.Yd.
Concrete for Structures (Class "E")	Item S-1	0.6 Cu.Yd.
24" Pipe for Roadway Culverts	Item S-27	80 Lin.Ft.
Standard No. 2-3 Catch Basin	Item I-8	1 Each
Paved Gutter, Type "A" As per Plan	Item I-14	16 Lin.Ft.
Removal of Existing Structures	Item S-24	Lump
Sodding	Item L-10	15 Sq.Yd.
Paved Gutter, Type "B" As per Plan	Item I-14	10 Lin.Ft.

~CULVERT DATA~

TYPE: Pipe (Standard Drawings S-27 P.C.2, S-27 P.C.3, & I-8 C.B. 2-3 & 2-4)
SIZE: 24" x 80:0"
WORK REQUIRED: Remove Existing Structure of Sta. 114+38.22.
Construct Proposed Pipe Culvert of Sta. 114+31 as detailed. Place Paved Gutter, Type A & B on Rt. as shown.
Excavate Channel on Lt. as shown.



~SECTION~
Scale-1"=5Ft.

Drainage Area = ____ 5 Acres
Q_{10} = ____ 11 c.f.s.

Drawn by: E.I.F. 1-29-'52
Checked by: E.P. 1-29-'52
Approved by:

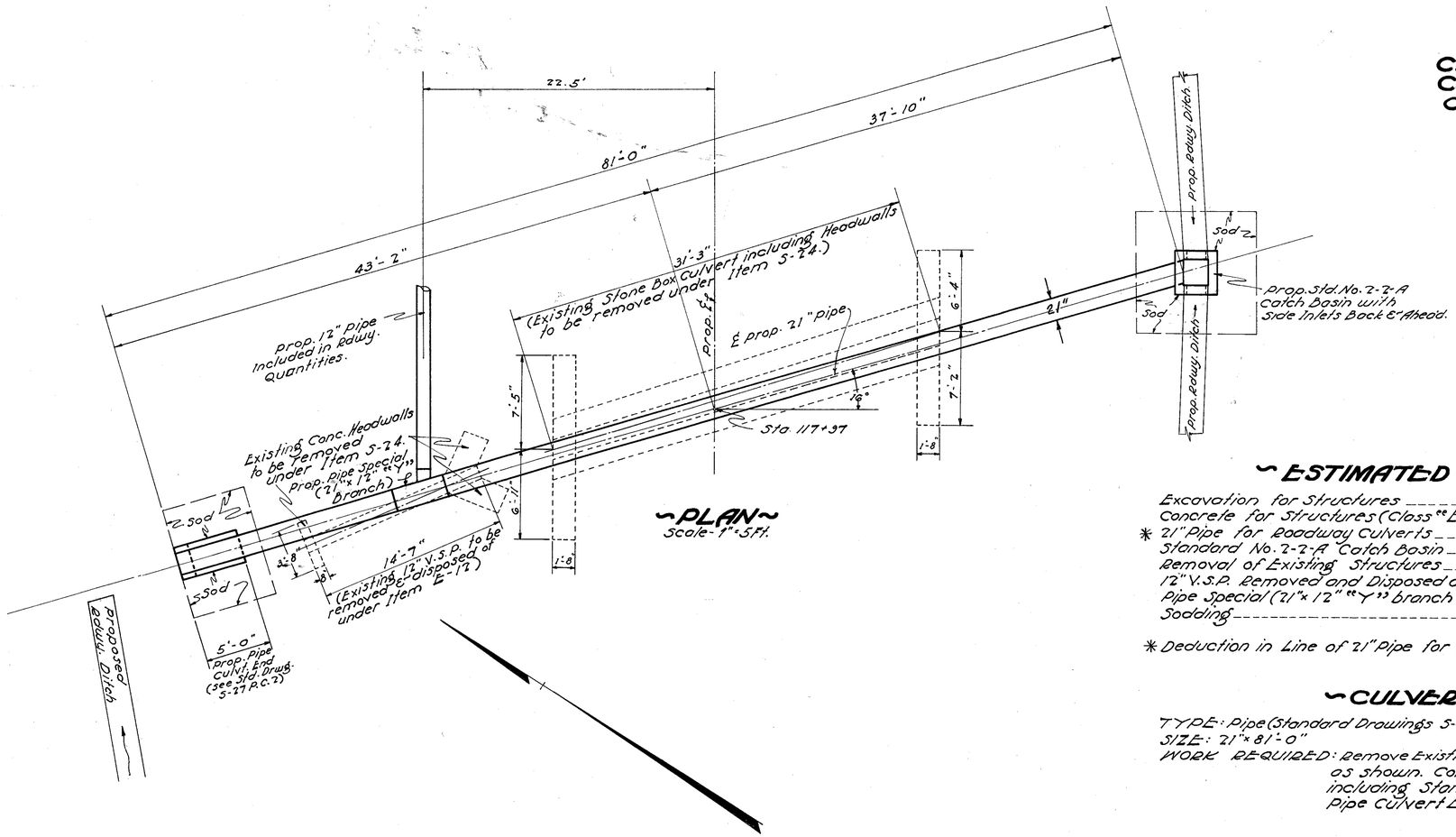
PIPE CULVERT STA. 114+31

13

FED. RD. DIVISION	STATE	FED AID PROJECT	TYPE FUNDS
2	OHIO	S-1133 (1)	POST WAR

109
121

CLINTON COUNTY
CLI-730 - (3.98-4.14)
CLI-350 - 4.07



~PLAN~
Scale- 1" = 5 Ft.

~ESTIMATED QUANTITIES~

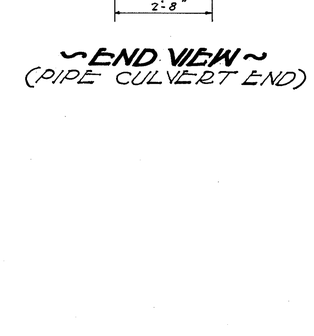
Excavation for Structures	Item E-2	16 Cu. Yd.
Concrete for Structures (Class "E")	Item S-1	0.6 Cu. Yd.
* 21" Pipe for Roadway Culverts	Item S-27	77 Lin. Ft.
Standard No. 2-2-A Catch Basin	Item 1-8	1 Each
Removal of Existing Structures	Item S-24	Lump
12" V.S.P. Removed and Disposed of	Item E-12	15 Lin. Ft.
Pipe Special (21"x12" "Y" branch	Item 1-5	1 Each
Sodding	Item L-10	155 Sq. Yd.

* Deduction in Line of 21" Pipe for Pipe Special = 4 Lin. Ft.

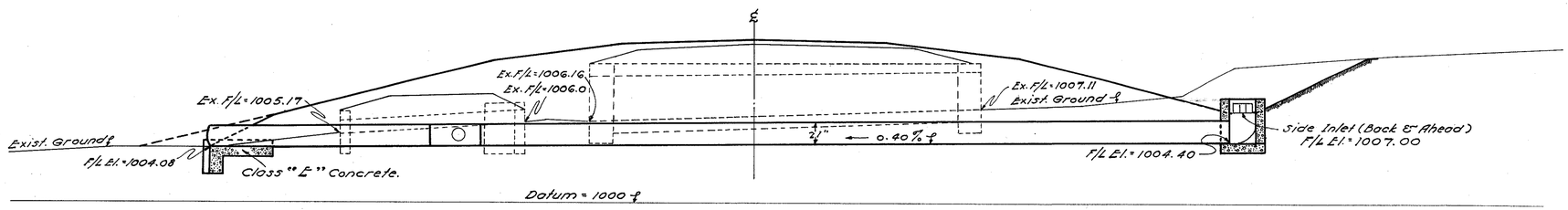
~CULVERT DATA~

TYPE: Pipe (Standard Drawings S-27 P.C. 2, S-27 P.C. 3 & I-8 C.B. 2-2-A & B)
SIZE: 21" x 81'-0"
WORK REQUIRED: Remove Existing Structures under Item S-24 as shown. Construct Proposed Pipe Culvert, including Standard No. 2-2-A Catch Basin & Pipe Culvert End as shown.

Drainage Area = 4 Acres
Q_{10} = 9 c.f.s.



~END VIEW~
(PIPE CULVERT END)



~SECTION~
Scale- 1" = 5 Ft.

Drawn by: E.I.F. 1-17-'52
Checked by: C.E.N. 1-21-'52
Approved by:

PIPE CULVERT
STA. 117+37

14

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133 (1)	POST WAR

110
121

CLINTON COUNTY
CLI-730-(3.98-4.14
CLI-350-4.07

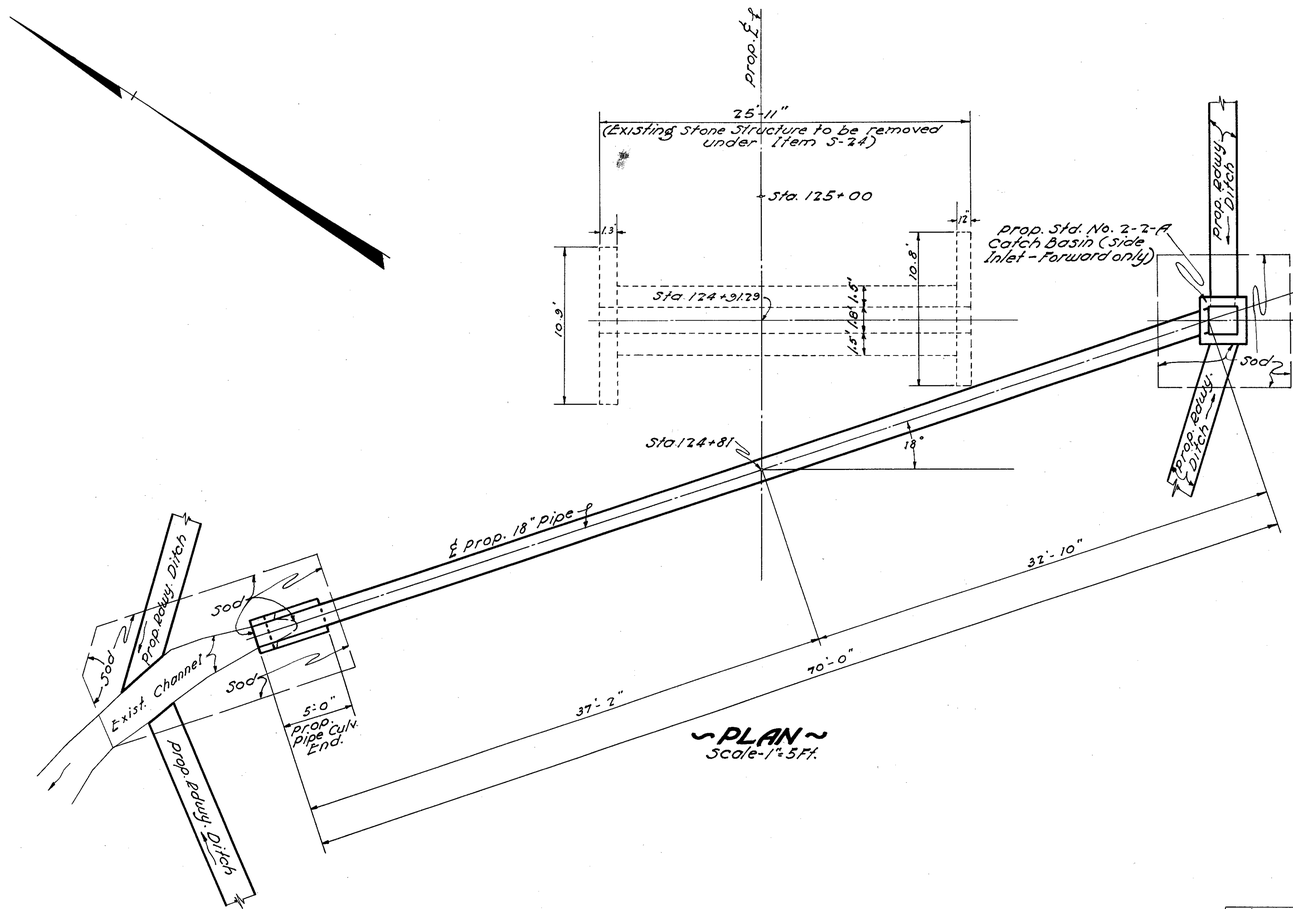
~ESTIMATED QUANTITIES~

Excavation for Structures	Item E-2	33 Cu.Yd.
Concrete for Structures (Class "E")	Item S-1	0.5 Cu.Yd.
18" Pipe for Roadway Culverts	Item S-27	70 Lin.Ft.
Standard No. 2-2-A Catch Basin	Item 1-8	1 Each
Removal of Existing Structures	Item S-24	Lump
Sodding	Item L-10	27 Sq.Yd.

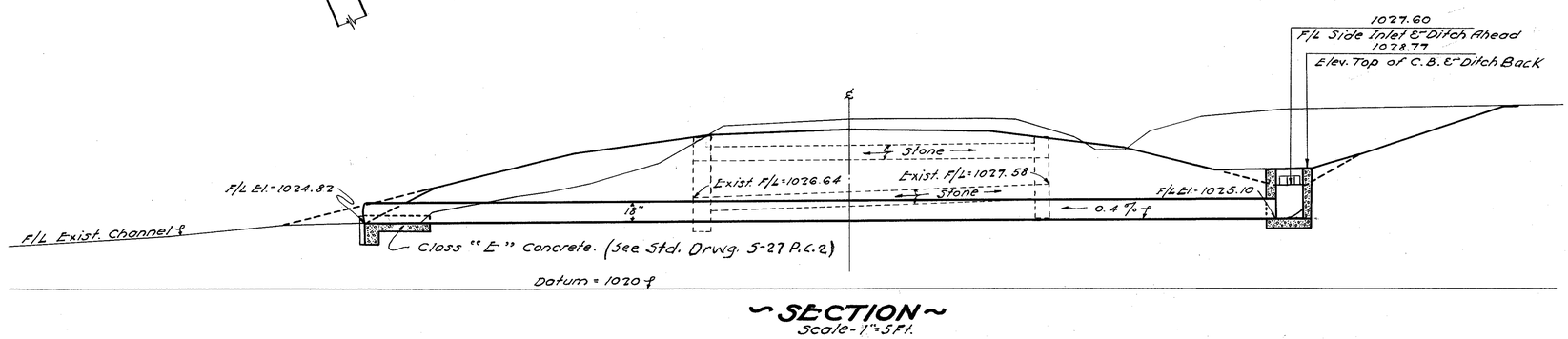
~CULVERT DATA~

TYPE: Pipe (Standard Drawings S-27 P.C.2, S-27 P.C.3 & 1-8 C.B. 2-2-A & B)
SIZE: 18" x 70'-0"
WORK REQUIRED: Remove Existing Structure at Sta. 124+91.29. Build Proposed Pipe Culvert at Sta. 124+81 as detailed.

Drainage Area = 2 Acres
Q_{10} = 6 c.f.s.



~PLAN~
Scale-1"=5Ft.



~SECTION~
Scale-1"=5Ft.

Drawn by: E.I.F. 1-19-'57
Checked by: C.E.N. 1-22-'57
Approved by:

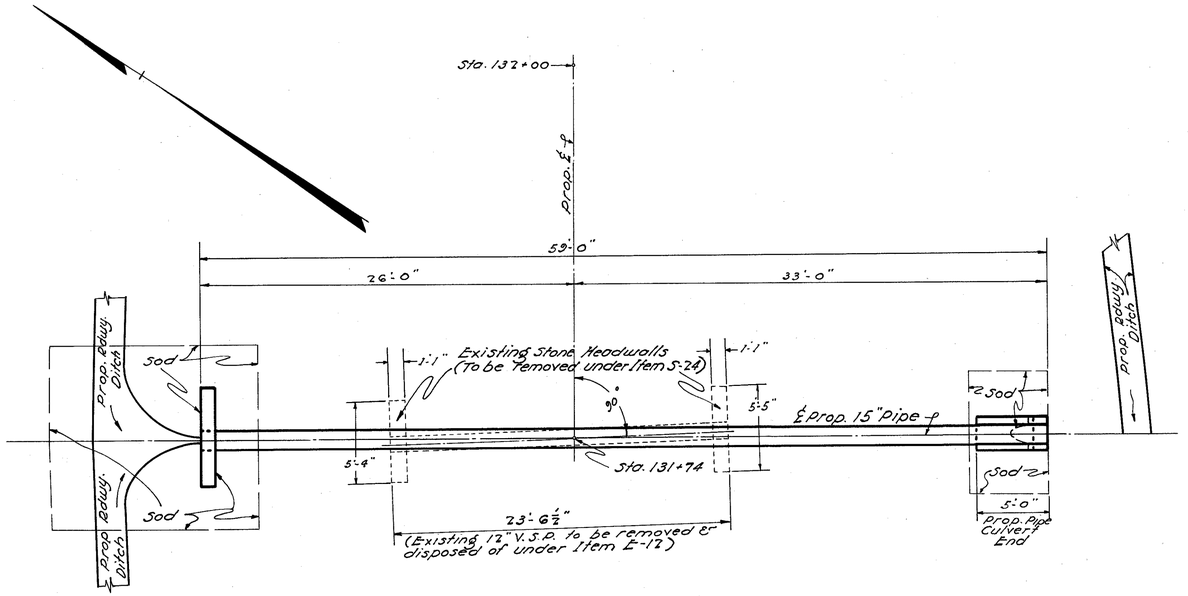
PIPE CULVERT
STA. 124+81

15

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(1)	POST WAR

121

CLINTON COUNTY
CLI-730-(3.98-4.14)
CLI-350-4.07



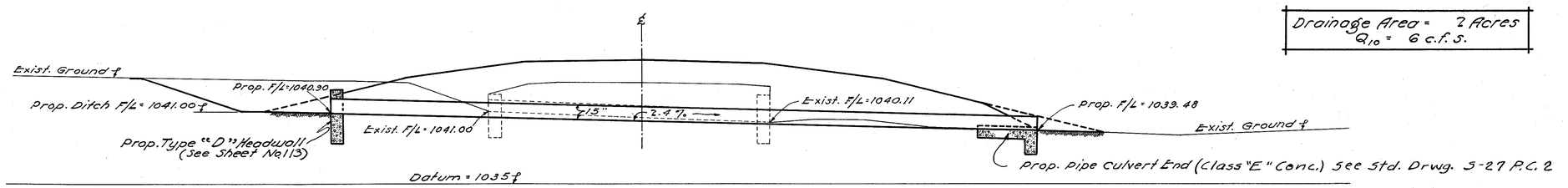
~PLAN~
Scale-1"=5Ft.

~ESTIMATED QUANTITIES~

Excavation for Structures	Item E-2	10 Cu.Yd.
Concrete for Structures (Class "C")	Item S-1	1.0 Cu.Yd.
Concrete for Structures (Class "E")	Item S-1	0.4 Cu.Yd.
Reinforcing Steel	Item S-4	23 Lb.
15" Pipe for Roadway Culverts	Item S-27	59 Lin.Ft.
12" V.S.P. Removed and Disposed of	Item E-12	24 Lin.Ft.
Removal of Existing Structures	Item S-24	Lump
Sodding	Item L-10	25 Sq.Yd.

~CULVERT DATA~

TYPE: Pipe (Standard Drawings S-27 P.C.2 & S-27 P.C.3)
SIZE: 15" x 59'-0"
WORK REQUIRED: Remove Existing Structure and Construct Proposed Pipe Culv. with Type "D" Headwall on Left and Pipe Culvert End on Right as shown.



Drainage Area = 2 Acres
Q_{10} = 6 c.f.s.

~SECTION~
Scale-1"=5Ft.

Drawn by: E.I.F. 1-21-52
Checked by: C.E.N. 1-22-52
Approved by:

PIPE CULVERT
STA. 131+74

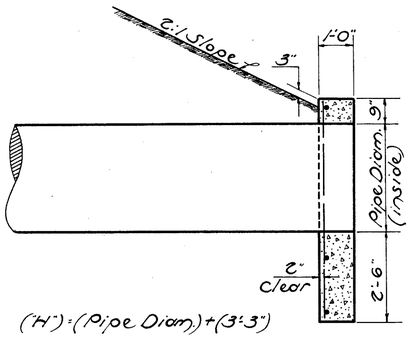
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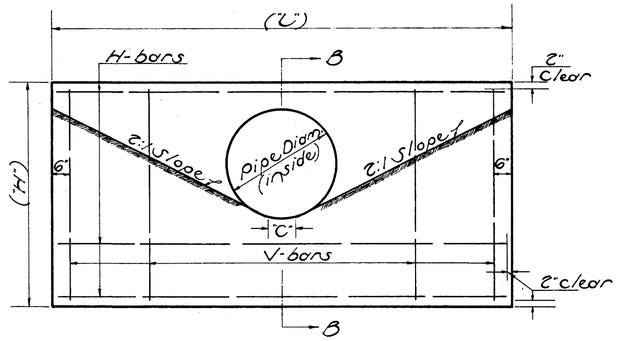
FED. RD. DIVISION	STATE	FED AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(1)	POST WAR

112
121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07

HEADWALL, TYPE "B"



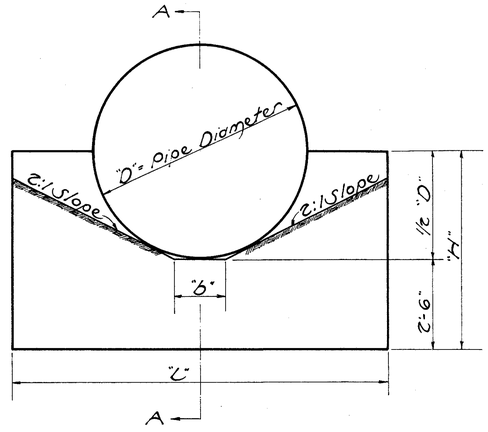


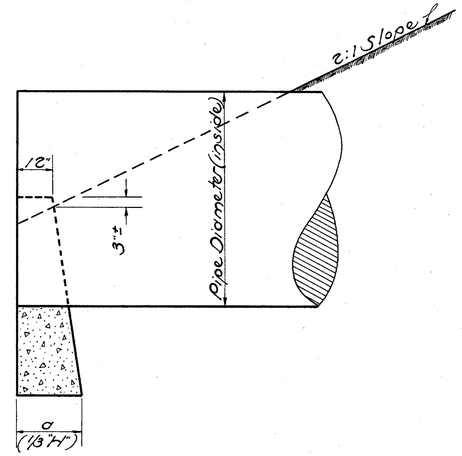
SEC. B-B

ELEVATION

Pipe Diameter (inside)	"H"	"L"	"C"	Quantities for one Headwall: Reinforcing Steel Items S-1 — H-bars 12'-8" No. Reqd	H-bars 12'-8" Length	V-bars 14'-8" No. Reqd	V-bars 14'-8" Length	Total Weight Lbs.	Concrete for Headwall Class "C" ~ Item S-1 Cu. Yd.
12"	2'-3"	2'-3"	3"	3	3'-11"	2	3'-11"	18	0.6
15"	2'-6"	3'-2"	4"	3	5'-0"	2	4'-2"	21	0.8
18"	2'-9"	3'-4"	4"	3	6'-0"	2	4'-5"	24	1.0
21"	3'-0"	3'-5"	5"	3	7'-1"	2	4'-8"	27	1.3
24"	3'-3"	3'-6"	6"	3	8'-2"	2	4'-11"	30	1.5
27"	3'-6"	3'-7"	7"	3	9'-3"	2	5'-2"	32	1.8
30"	3'-9"	10'-7"	7"	3	10'-3"	2	5'-5"	35	2.1
33"	4'-0"	11'-8"	8"	3	11'-4"	2	5'-8"	38	2.4
36"	4'-3"	12'-9"	9"	3	12'-5"	2	5'-11"	41	2.7

HEADWALL, TYPE "A"





ELEVATION

SEC. A-A

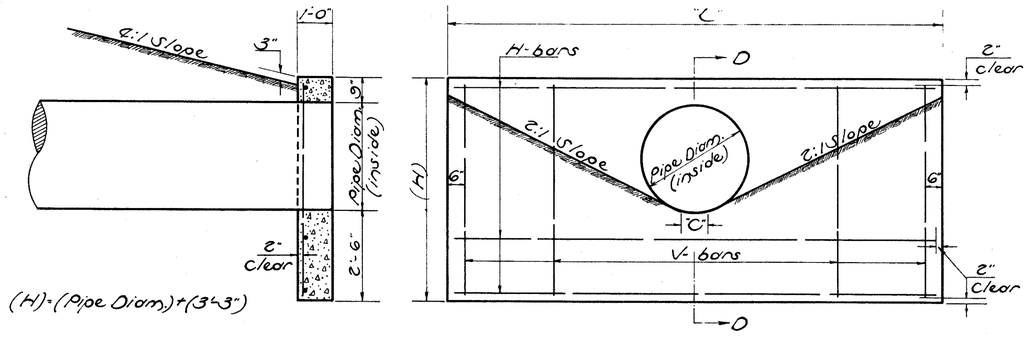
Pipe Diameter (inside)	"H"	"L"	"D"	"b"	Concrete for one Headwall Class "E" ~ Item S-1 Cu. Yd.
15"	3'-1 1/2"	3'-8"	1'-0 1/2"	3'-2"	0.6
18"	3'-3"	3'-11"	1'-1"	2'-11"	0.5
21"	3'-4 1/2"	4'-3"	1'-1 1/2"	2'-9"	0.5
24"	3'-6"	4'-6"	1'-2"	2'-6"	0.6
27"	3'-7 1/2"	4'-9"	1'-2 1/2"	2'-3"	0.6
30"	3'-9"	5'-1"	1'-3"	2'-1"	0.7
33"	3'-10 1/2"	5'-5"	1'-3 1/2"	1'-11"	0.8
36"	4'-0"	5'-8"	1'-4"	1'-8"	0.8
39"	4'-1 1/2"	6'-0"	1'-4 1/2"	1'-6"	0.9
42"	4'-3"	6'-3"	1'-5"	1'-3"	1.0
48"	4'-6"	7'-0"	1'-6"	1'-0"	1.2
54"	4'-9"	7'-1"	1'-7"	1'-1"	1.3
60"	5'-0"	8'-3"	1'-8"	1'-3"	1.6
66"	5'-3"	9'-4"	1'-9"	1'-4"	2.0
72"	5'-6"	10'-5"	1'-10"	1'-5"	2.4
78"	5'-9"	11'-7"	1'-11"	1'-7"	2.9
84"	6'-0"	12'-8"	2'-0"	1'-8"	3.3
90"	6'-3"	13'-10"	2'-1"	1'-10"	3.9
96"	6'-6"	14'-11"	2'-2"	1'-11"	4.5
102"	6'-9"	16'-0"	2'-3"	2'-0"	5.1
108"	7'-0"	17'-2"	2'-4"	2'-2"	5.8

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133 (1)	POST WAR

113
121

CLINTON COUNTY
CLI-7.30 - (3.98-4.14)
CLI-3.50 - 4.07

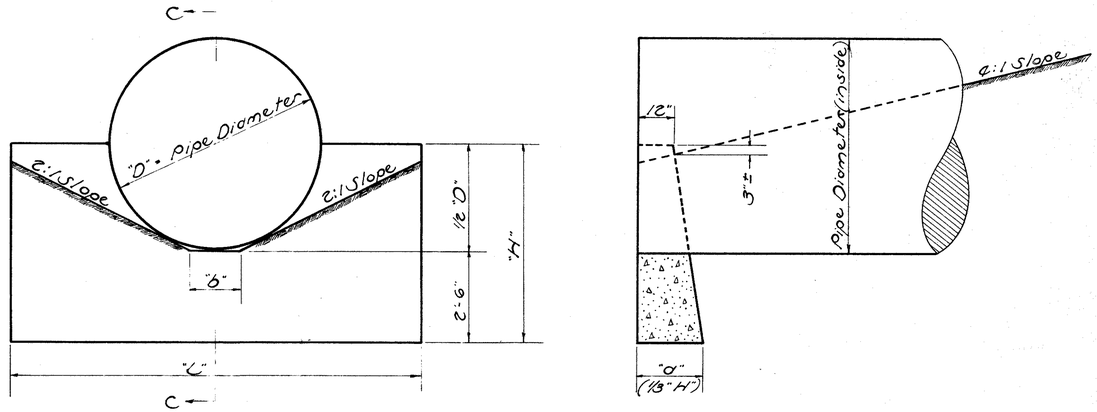
HEADWALL, TYPE "D"



SEC. D-D ELEVATION

Pipe Diameter (inside)	"H"	"L"	"C"	Quantities for one headwall: Reinforcing Steel Item S-2: H-bars 1/2" ø: No. Reqd.	H-bars 1/2" ø: Length	V-bars 1/2" ø: No. Reqd.	V-bars 1/2" ø: Length	Total Weight* Lbs.	Concrete for Headwall Class "C" - Item S-1: Cu. Yd.
12"	4'-3"	5'-3"	3"	3	4'-11"	4	3'-11"	80	0.8
15"	4'-6"	6'-4"	4"	3	6'-0"	4	4'-2"	93	1.0
18"	4'-9"	7'-4"	4"	3	7'-0"	4	4'-5"	96	1.2
21"	5'-0"	8'-5"	5"	3	8'-1"	4	4'-8"	99	1.5
24"	5'-3"	9'-6"	6"	3	9'-2"	4	4'-11"	102	1.7
27"	5'-6"	10'-7"	7"	3	10'-3"	4	5'-2"	104	2.0
30"	5'-9"	11'-7"	7"	3	11'-3"	4	5'-5"	107	2.3
33"	6'-0"	12'-8"	8"	3	12'-4"	4	5'-8"	110	2.6
36"	6'-3"	13'-9"	9"	3	13'-5"	4	5'-11"	113	2.9

HEADWALL, TYPE "C"



ELEVATION SEC. C-C

Pipe Diameter (inside)	"H"	"L"	"a"	"b"	Concrete for one Headwall Class "E" ~ Item S-1: Cu. Yd.
15"	3'-1 1/2"	3'-8"	1'-0 1/2"	3'-2"	0.4
18"	3'-3"	3'-11"	1'-1"	2'-11"	0.5
21"	3'-4 1/2"	4'-3"	1'-1 1/2"	2'-9"	0.5
24"	3'-6"	4'-6"	1'-2"	2'-6"	0.6
27"	3'-7 1/2"	4'-9"	1'-2 1/2"	2'-3"	0.6
30"	3'-9"	5'-1"	1'-3"	2'-1"	0.7
33"	3'-10 1/2"	5'-5"	1'-3 1/2"	1'-11"	0.8
36"	4'-0"	5'-8"	1'-4"	1'-8"	0.8
39"	4'-1 1/2"	6'-0"	1'-4 1/2"	1'-6"	0.9
42"	4'-3"	6'-3"	1'-5"	1'-3"	1.0
48"	4'-6"	7'-0"	1'-6"	1'-0"	1.2
54"	4'-9"	8'-1"	1'-7"	1'-1"	1.5
60"	5'-0"	9'-3"	1'-8"	1'-3"	1.9
66"	5'-3"	10'-4"	1'-9"	1'-4"	2.3
72"	5'-6"	11'-5"	1'-10"	1'-5"	2.7
78"	5'-9"	12'-7"	1'-11"	1'-7"	3.2
84"	6'-0"	13'-8"	2'-0"	1'-8"	3.7
90"	6'-3"	14'-10"	2'-1"	1'-10"	4.3
96"	6'-6"	15'-11"	2'-2"	1'-11"	4.9
102"	6'-9"	17'-0"	2'-3"	2'-0"	5.5
108"	7'-0"	18'-2"	2'-4"	2'-2"	6.2

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(1)	POST WAR

114
121

CLINTON COUNTY
CLI.-730-(3.98 - 4.14)
5.1± Miles S.W. of Wilmington
CLI-350-4.07

EXISTING BRIDGE DATA
NONE

CURVE DATA
P.I. = Sta. 68+32.28
Δ = 51°-00' Rt.
Dc = 5°-00'
Ts = 723.56
Ls = 350.00'
Xc = 349.18'
Yc = 17.79'
Es = 128.60'
Lc = 670.00'
R = 1145.92
T.S. = 61+08.72
S.C. = 64+58.72
C.S. = 71+28.72
S.T. = 74+78.72

FLOW

PROPOSED STRUCTURE
TYPE: Continuous steel beams with reinf. conc. deck and reinf. concrete substructure.
SPANS: 56'-70'-56' ℄ brgs.
ROADWAY: 26'-0" face to face of curbs with two 2'-9½" side walks.
LOADING: S-15-40
SKEW: 40°-15' LF
SURF. COURSE: Bituminous
APPR. SLABS: As shown
ALIGNMENT: 5°-00' Curve Rt.
SUPERELEV: 0.082 ft. per ft.

Drainage Area 50 sq. miles

Foundation design and foundation quantities are based on a study of 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 an abridged form in the Division Office, but the State assumes no responsibility for the accuracy thereof.

End approach slab Sta. 68+66.83
Transition 4:1 to 2:1 slope
℄ Bridge Sta. 69+63.00
40°-15'
Transition 4:1 to 2:1 slope
Transition 2:1 to 4:1 slope
℄ Spillway outlet channel
CMP
Ditch
Begin approach slab sta. 70+56.77
Bridge Limits
℄ Bridge Sta. 69+63.00
Prof. Gr. Elev. 972.82
Transition 2:1 to 4:1 slope
C.S. = Sta. 71+28.72
Pipe Culvert
Sta. 68+66.83
Sta. 70+56.77
Clears 10 to 15 yr. H.W. 22.2'±
All Elevations are to U.S.G.S. Datum
-0.60% Grade Line shown is Profile Grade
2:1 Norm.
H.W. with 24,500 c.f.s. (Q for dam design)
Elev. 952.0
10 to 15 yr. H.W. El. 946.0
Ftg. Elev. 935.0
Approx. shale Elev.
Ftg. El. 960.5
Bench El. 968.1
2:1 Norm.
Bench El. 967.1
Approx. shale Elev.
Ftg. El. 959.5
300' V.C.
P.C. = Sta. 71+50

973.1 | 972.0 | 971.3 | 971.2 | 973.2 | 973.3 | 966.0 | 964.0 | 960.0 | 956.0 | 946.0 | 940.0 | 940.0 | 940.0 | 948.0 | 942.0 | 966.0 | 966.4 | 967.0 | 968.9 | 971.7
67+00 | +50 | 68+00 | +50 | 69+00 | +50 | +63 | 70+00 | +50 | 71+00 | +50 | 72+00

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN
BRIDGE NO. CN 730 - 49
OVER COWAN CREEK
CLINTON CO. S. R. 730
SEC. STA. 69+63.00
SCALE 1" = 20'

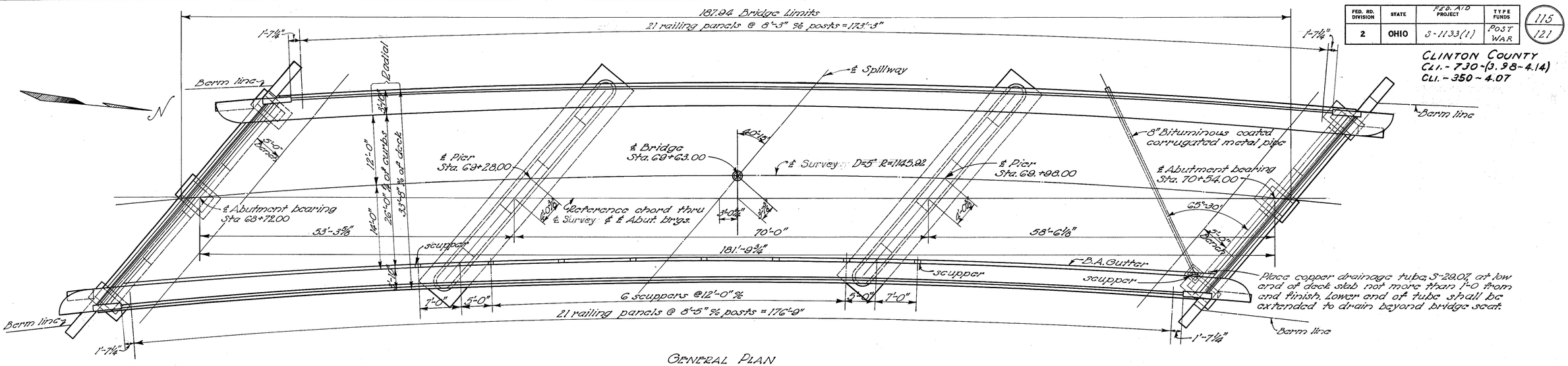
PRESENT TOPOGRAPHY			PROPOSED WORK			
SURVEYED	DRAWN	TRACED	DESIGN	DRAWN	CHECKED	REVIEWED
Aerial Survey	Aerial Survey	Aerial Survey	J.H.B.	J.H.B.	J.S.P.	C.T.A.

W.H.R. 9-25-52

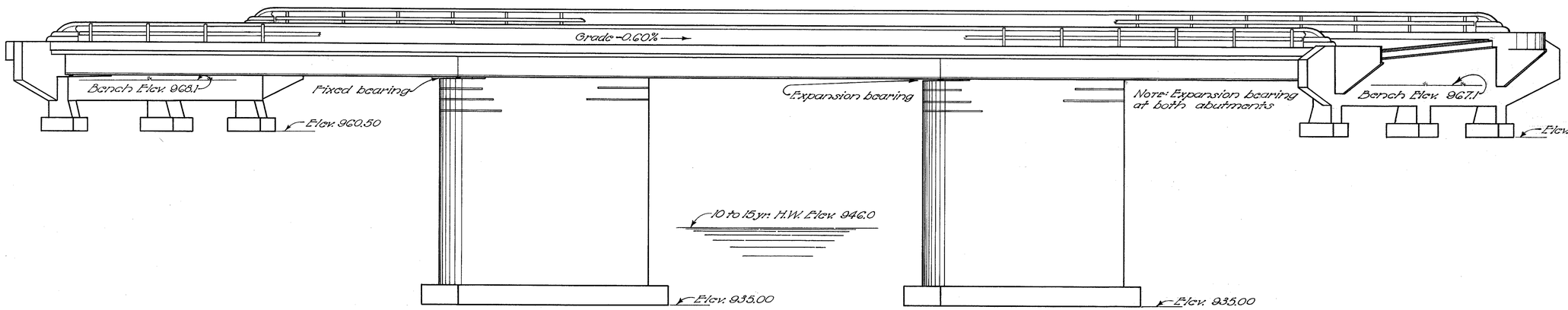
FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(1)	POST WAR

115
121

CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07



GENERAL PLAN



GENERAL ELEVATION

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	NORTH ABUT.	SOUTH ABUT.	NORTH PIER	SOUTH PIER	SUPER.	GENERAL	
F-2	Lump	Sum	Cofferdams, cribs, and sheeting						Lump	
E-2	150	cu.yd.	Unclassified excavation, except shale	60	90					
E-2	193	cu.yd.	Shale excavation	1	1	75	116			
S-1	178	cu.yd.	Class "C" concrete, superstructure					178		
S-1	407	cu.yd.	Class "F" concrete, abutments & piers above footing	48	55	147	157			
S-1	83	cu.yd.	Class "F" concrete, abutment and pier footings	5	5	36	37			
S-3	539	sq.yd.	Type "C" waterproofing					539		
S-4	54,398	lbs.	Reinforcing steel	4,522	4,993	3,120	3,337	38,322	104	
S-7	168,500	lbs.	Structural steel					168,500		
S-8	168,500	lbs.	Field painting of structural steel					168,500		
S-14	375.4	lin.ft.	Railing (steel with concrete and steel end posts)					375.4		
S-29	186	lin.ft.	Subdrainage for wearing surface course					186		
I-2	34	lin.ft.	8" Bituminous coated corrugated metal pipe, Sec. M-6.4(b) for storm sewers, including specials						34	
T-35	37	cu.yd.	Asphaltic concrete surface course, Type A or C (70-80) or (65-100)					37		

GENERAL NOTES

REFERENCE shall be made to Std. Drg. CSB-1-47 revised 8-25-49, for details not shown.

EXCAVATION QUANTITY includes the removal of material between existing ground line and bottom of abutment cross beams and footings.

SURFACE FINISH OF CONCRETE: Railing end posts, curb faces, and fascias of deck shall receive a rubbed surface finish. All other exposed surfaces shall be governed by the provisions of Item 511.

WELDING shall be Class "A" except as shown. Any welds shown as field welds may at the option of the Contractor be made in the shop. Class "B" welds shown thus: B→

CATCH BASIN: The concrete, reinforcing steel, and excavation quantities for the catch basin are included with the North Abutment quantities in the Estimated Quantities Table.

BITUMINOUS SURFACE COURSE: 2½" Asphaltic concrete surface course, Item 7-35, laid in two 1¼" courses.

FOOTINGS shall extend a minimum of 6" into shale or to the elevation shown, whichever is the lower.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES AND RAILROAD CROSSINGS

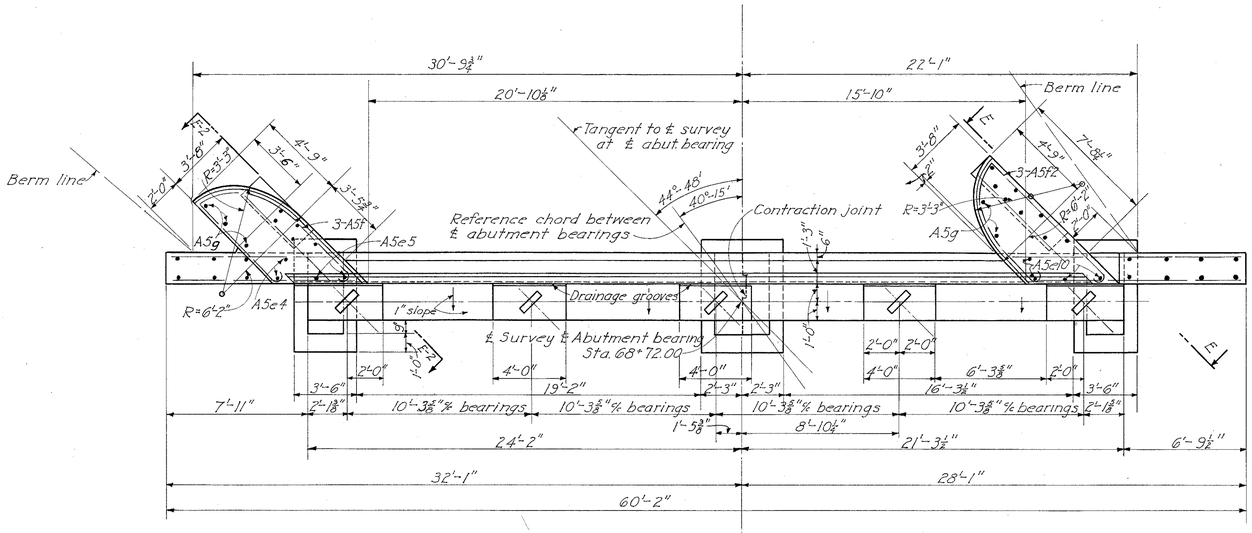
GENERAL PLAN & ELEVATION, GENERAL NOTES AND ESTIMATED QUANTITIES
BRIDGE NO. CN-730-4.9
OVER COWAN CREEK
CLINTON COUNTY
Sec. CLI-730-3.98 Sta. 69+63.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
gws	gwk	j.c.v.		a.j.f. W.H.R.	9-15-52	

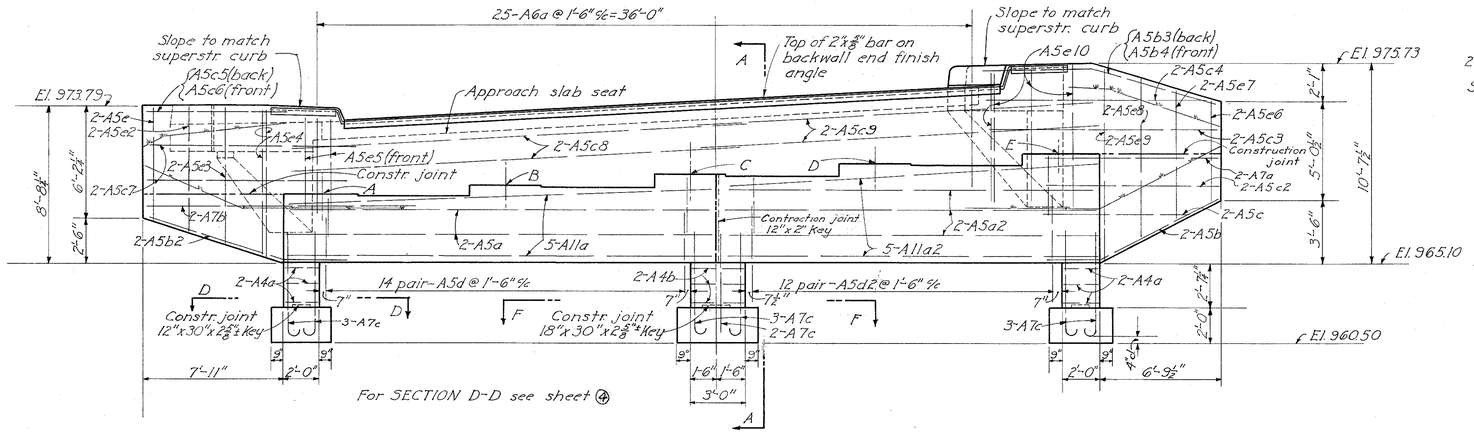
FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(1)	POST WAR

116
121

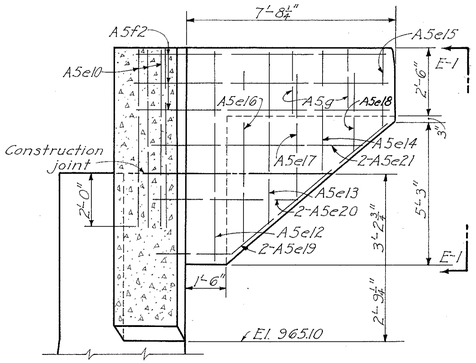
CLINTON COUNTY
CLI.- 730 -(3.98 ~ 4.14)
CLI. ~ 350 ~ 4.07



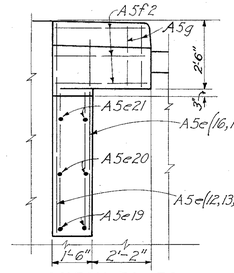
~ PLAN ~



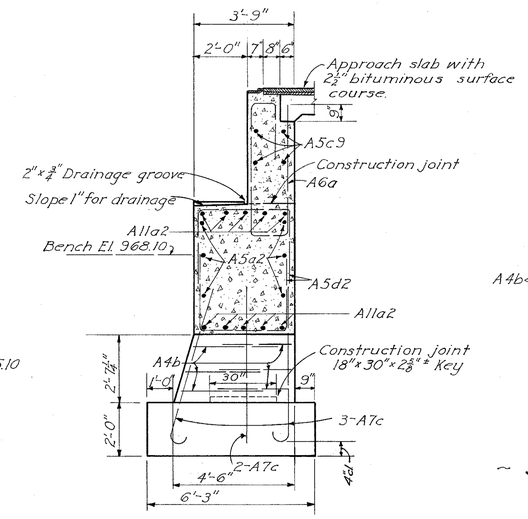
~ ELEVATION ~



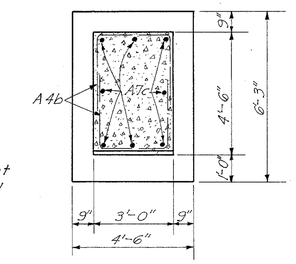
~ SECTION E-E ~



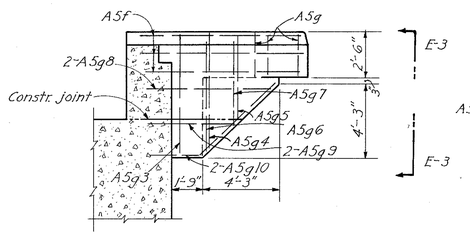
~ VIEW E1-E1 ~



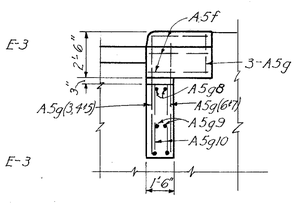
~ SECTION A-A ~



~ SECTION F-F ~



~ SECTION E2-E2 ~



~ VIEW E3-E3 ~

NOTES:

Concrete above bridge seat construction joint shall not be placed until after the steel work is erected. Steel end finish shall be used as a template for top of backwall.

Reinforcing steel shall be 2 inches clear from face of concrete unless otherwise specified.

Do not extend bars through contraction joint.

POINT	A	B	C	D	E
ELEVATION	968.88	969.43	969.98	970.54	971.10

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES AND RAILROAD CROSSINGS

DETAILS SOUTH ABUTMENT BRIDGE Nº CN-730-4.9 OVER COWAN CREEK

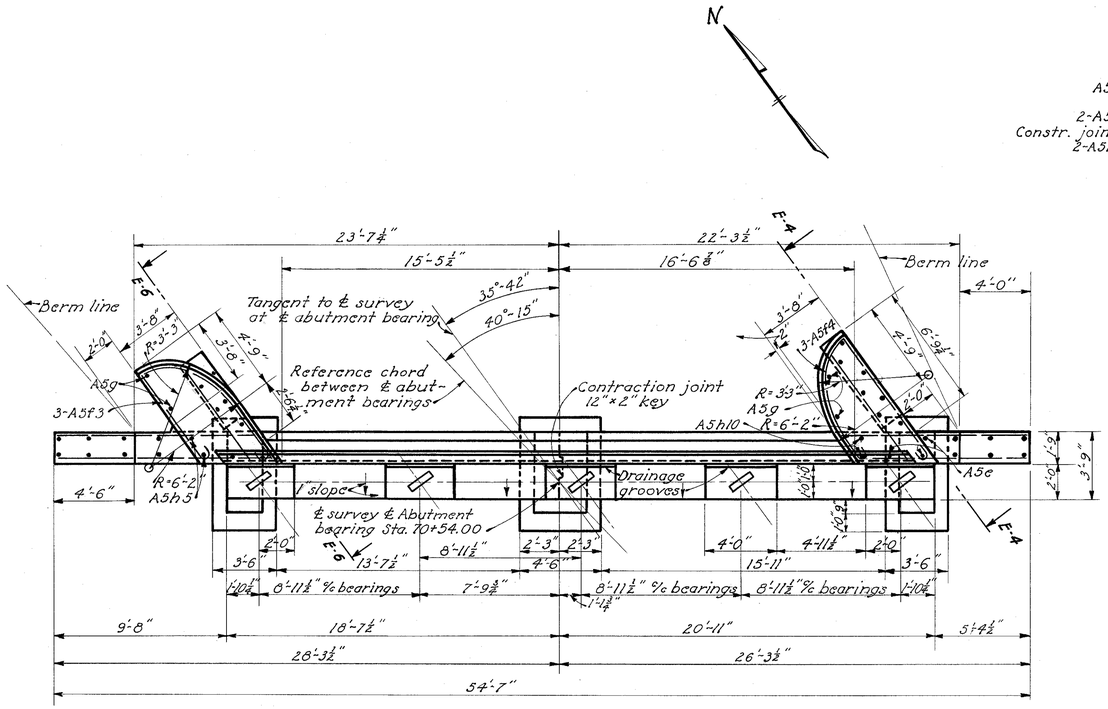
CLINTON COUNTY
SEC. CLI-730-3.98 STA. 63+63.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
GWB	GWB	P.G.	[illegible]	WHR	9-25-51	

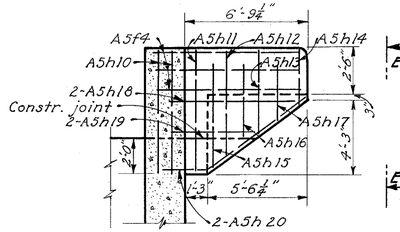
FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(11)	POST WAR

117
121

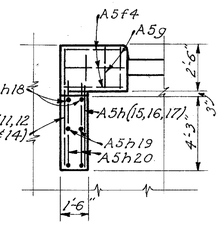
CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07



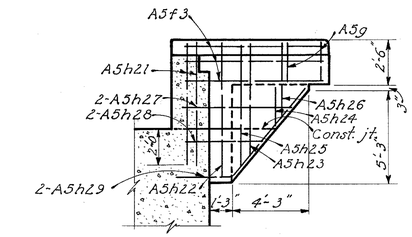
PLAN



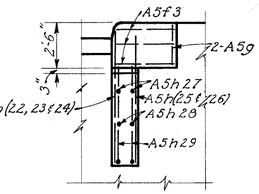
SECTION E-4-E-4



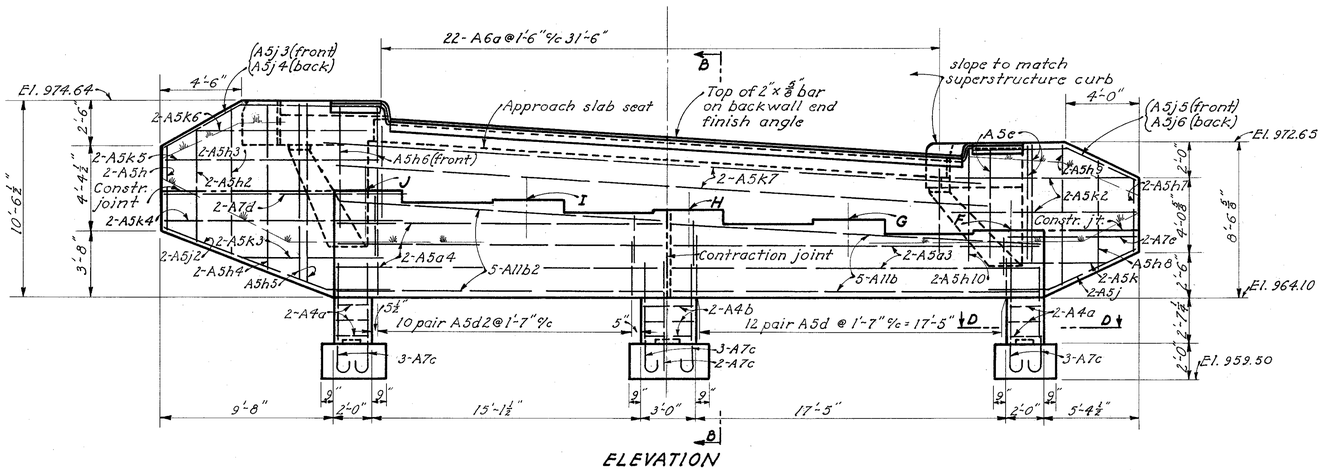
VIEW E-5-E-5



SECTION E-6-E6

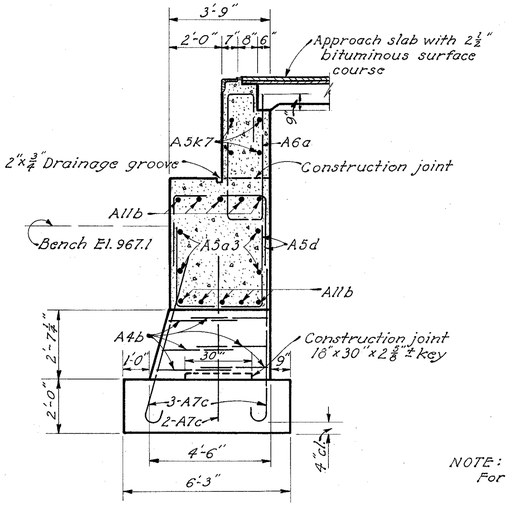


VIEW E-7-E-7

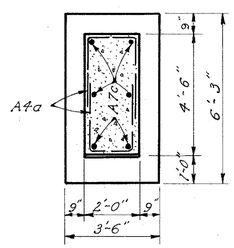


ELEVATION

POINT	F	G	H	I	J
ELEVATION	967.77	968.33	968.90	969.46	970.03



SECTION B-B



SECTION D-D

NOTE:
For abutment notes see Sheet 116

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES AND RAILROAD CROSSINGS

DETAILS NORTH ABUTMENT

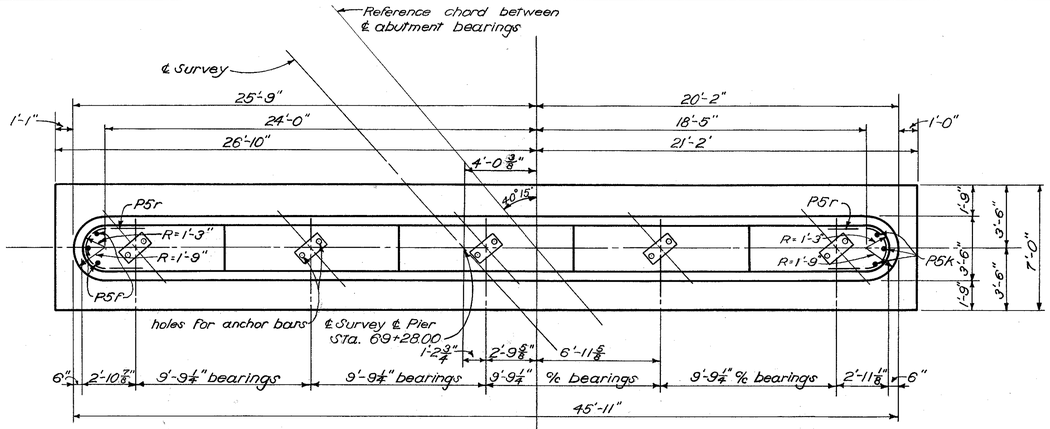
BRIDGE NO. CN-730-49
OVER COWAN CREEK
CLINTON COUNTY
SEC. CLI-730-3.98 STA. 69+63.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
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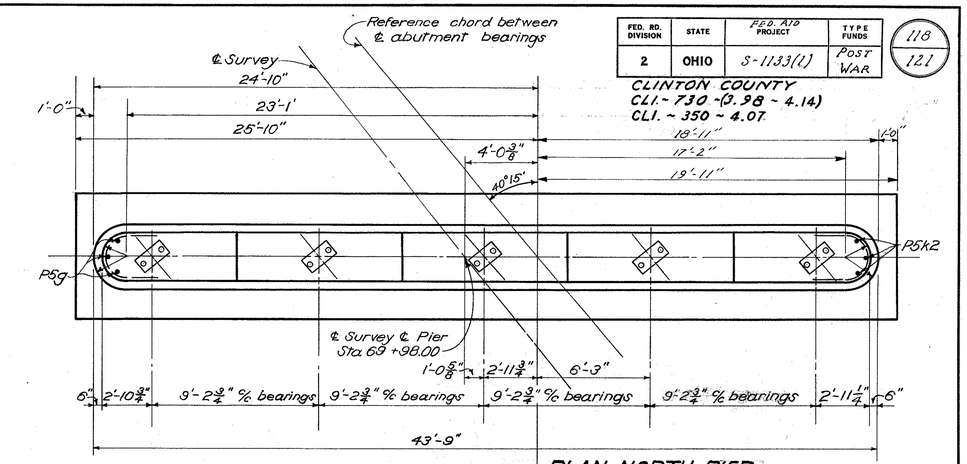
FED. RD. DIVISION	STATE	F.A.P. PROJECT	TYPE FUNDS
2	OHIO	S-1133(1)	POST WAR

118
121

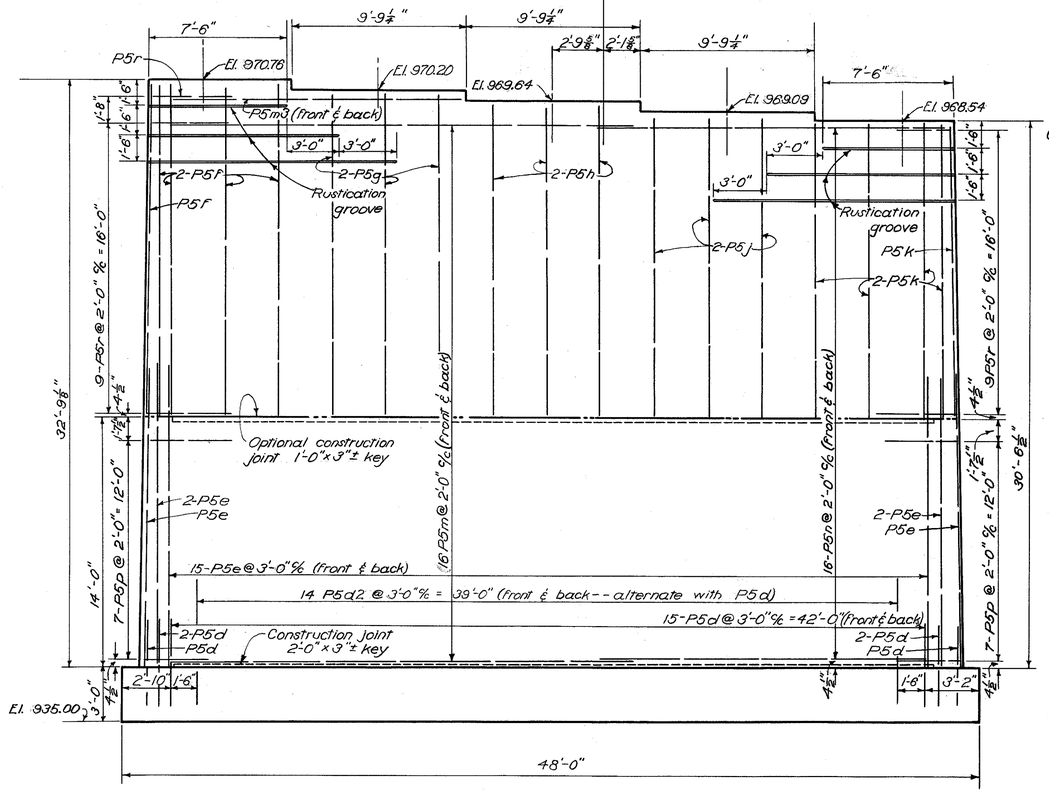
CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07



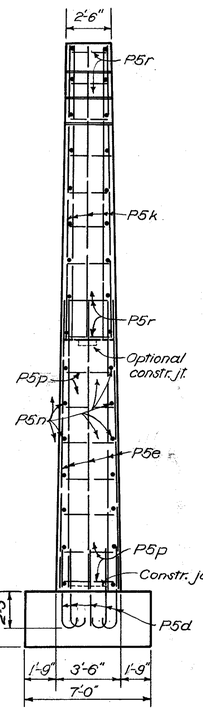
PLAN-SOUTH PIER



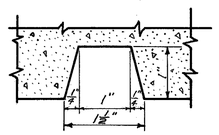
PLAN-NORTH PIER



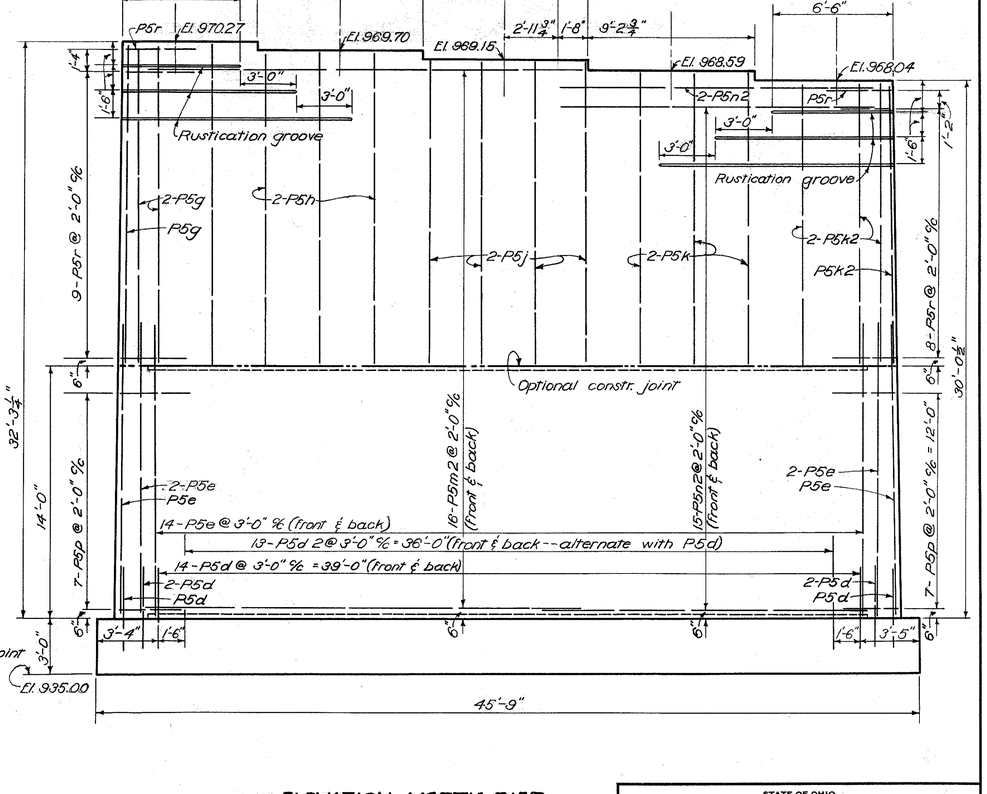
ELEVATION-SOUTH PIER



VIEW G-G



RUSTICATION GROOVE DETAILS



ELEVATION-NORTH PIER

NOTES
Details not shown on North Pier are same as those given on South Pier.

Reinforcing steel shall be 2 inches clear from face of concrete unless otherwise specified

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES AND RAILROAD CROSSINGS

NORTH AND SOUTH PIER DETAILS

BRIDGE NO. CN-730-49
OVER COWAN CREEK
CLINTON COUNTY
SEC. CII-730-3.98 Sta. 69+63.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JWB	JWB	ReS	CWB	K.W.A.	9-25-52	

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(11)	POST WAR

119
121

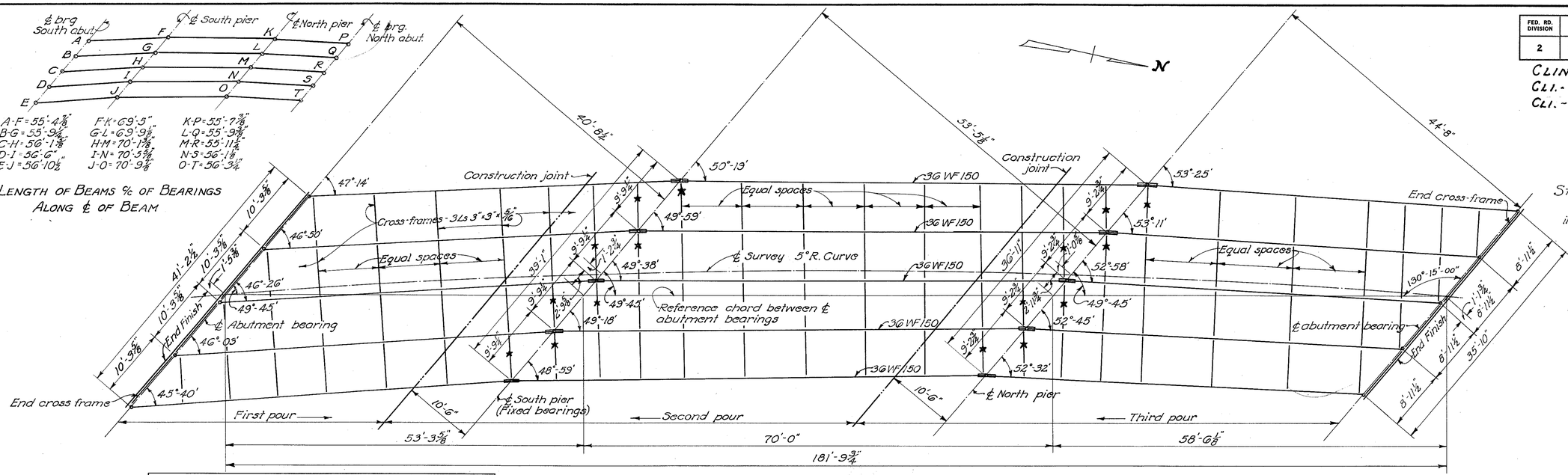
CLINTON COUNTY
CLI.-730-(3.98~4.14)
CLI.-350-4.07

A-F = 55'-4⅞"
B-G = 55'-9½"
C-H = 56'-1⅞"
D-I = 56'-6"
E-J = 56'-10⅛"

F-K = 69'-5"
G-L = 69'-9½"
H-M = 70'-1⅞"
I-N = 70'-5¾"
J-O = 70'-9⅝"

K-P = 55'-7⅞"
L-Q = 55'-9⅝"
M-R = 55'-11¼"
N-S = 56'-1⅝"
O-T = 56'-3¼"

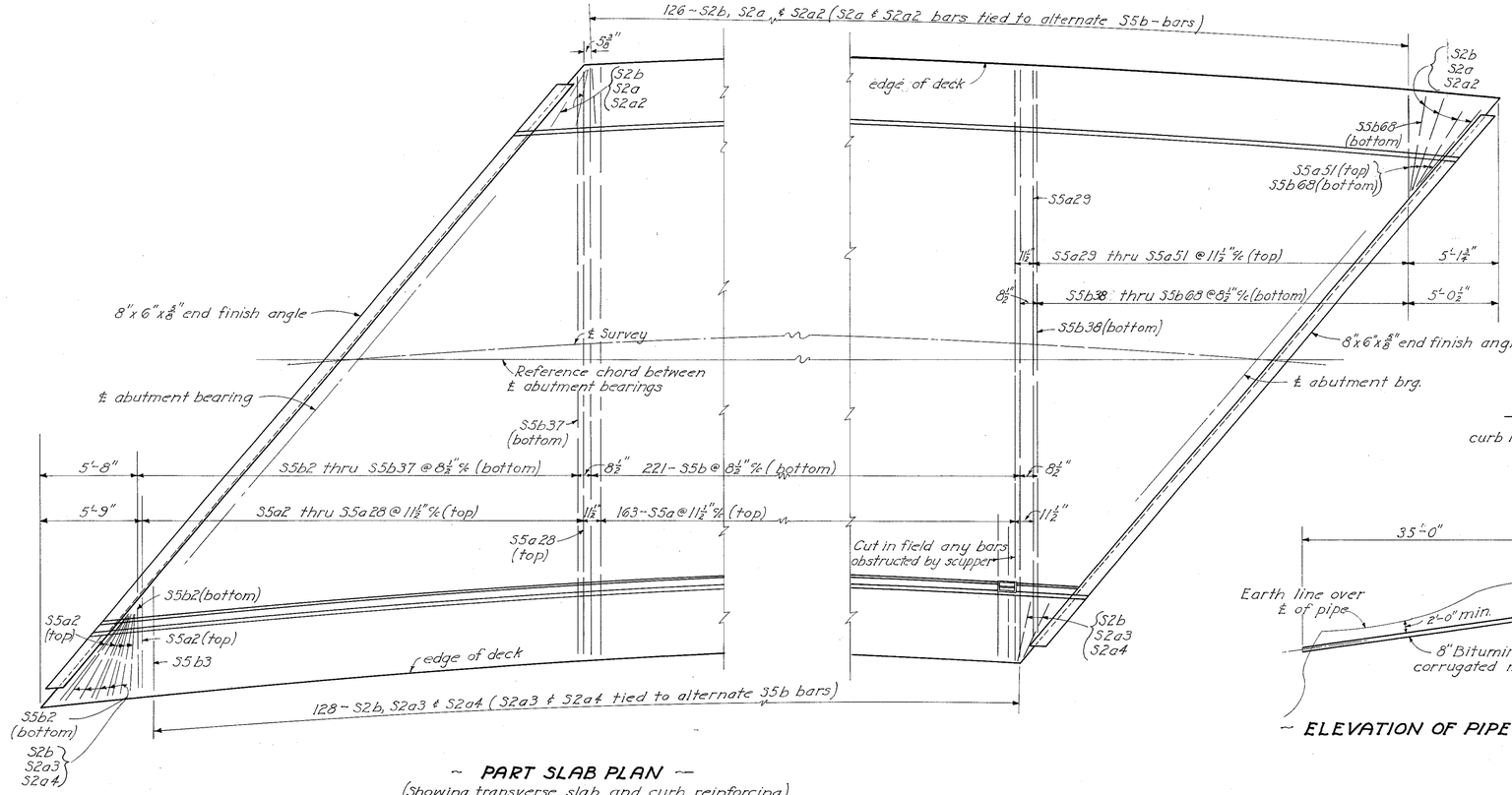
LENGTH OF BEAMS % OF BEARINGS ALONG ℄ OF BEAM


N
40'-6½"
53'-5⅛"
44'-8"
47°-14'
50°-19'
53°-25'
Construction joint
Construction joint
End cross-frame
3G WF 150
Equal spaces
Cross-frames - 3Ls 3"x3"x5/16
Equal spaces
Equal spaces
℄ Survey 5°R. Curve
Reference chord between ℄ abutment bearings
℄ abutment bearing
46°-50'
46°-26'
49°-45'
℄ Abutment bearing
End Finish
46°-03'
45°-40'
End cross frame
49°-59'
49°-38'
49°-45'
49°-18'
48°-59'
53°-11'
52°-58'
49°-45'
52°-45'
52°-32'
130°-15'-00"
90°-11'
39°-1"
41'-2½"
10'-3⅝"
10'-3⅝"
10'-3⅝"
10'-3⅝"
1'-5⅜"
2'-2¼"
2'-2¼"
2'-2¼

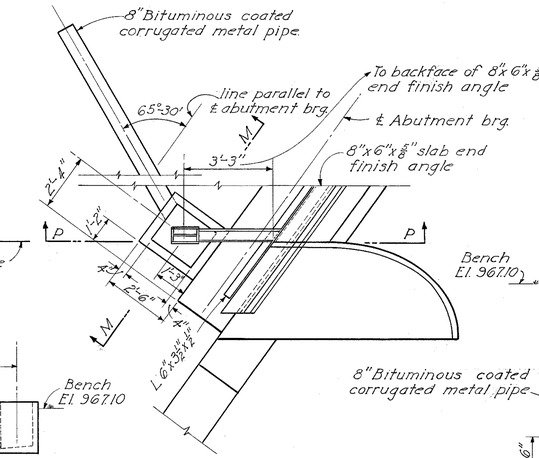
FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133-(1)	POST WAR

120
121

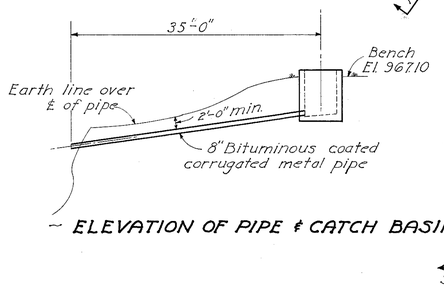
CLINTON COUNTY
CLI.-730-(3.98-4.14)
CLI.-350-4.07



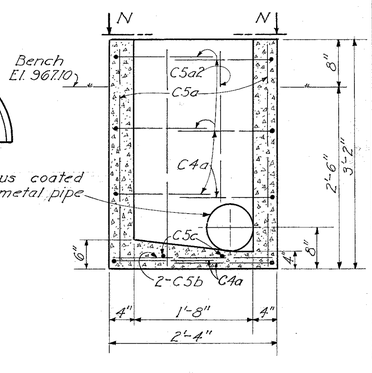
~ PART SLAB PLAN ~
(Showing transverse slab and curb reinforcing)



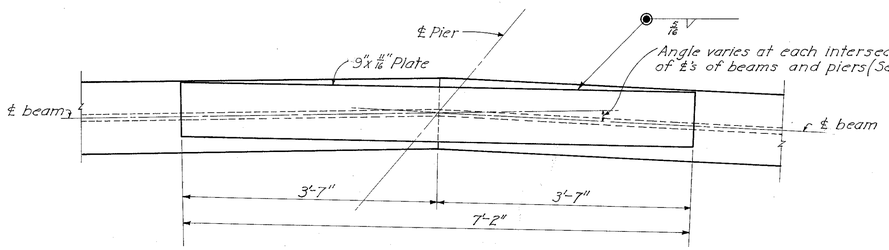
~ PLAN ~



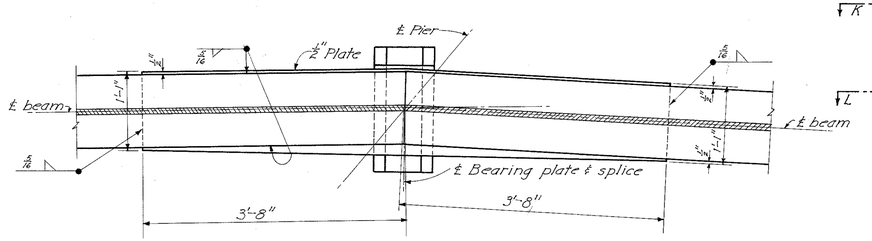
~ ELEVATION OF PIPE & CATCH BASIN ~



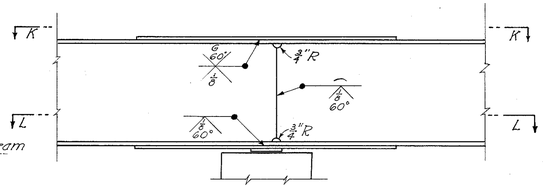
~ SECTION M-M ~
(Catch basin details)



~ SECTION K-K ~

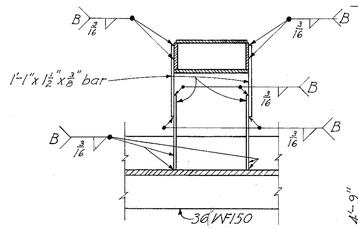


~ SECTION L-L ~

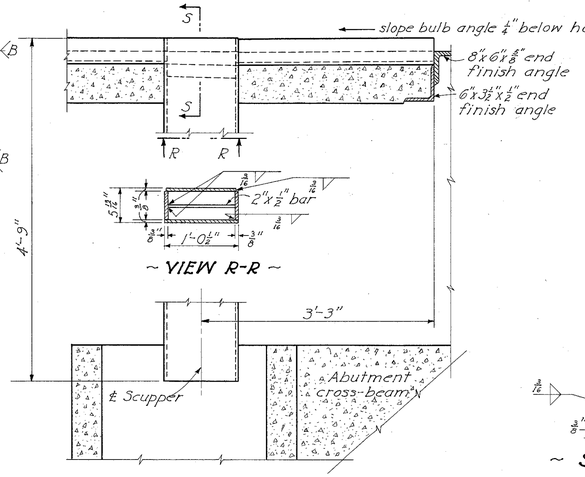


~ TYPICAL ELEVATION ~

~ BEAM SPLICE DETAILS ~

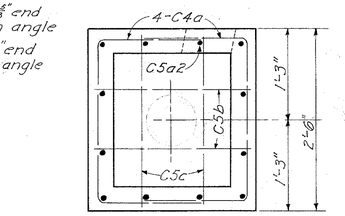


~ SCUPPER SUPPORT DETAILS ~



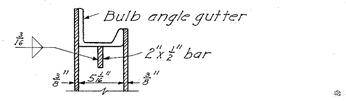
~ VIEW R-R ~

~ SECTION P-P ~



Vertical bars are C5a except as shown

~ VIEW N-N ~



~ SECTION S-S ~

~ DRAINAGE DETAILS ~
(At East End - North Abutment)

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES AND RAILROAD CROSSINGS

SUPERSTRUCTURE REINFORCING, BEAM SPLICE & DRAINAGE DETAILS
BRIDGE No. CN-730-49
OVER COWAN CREEK
CLINTON COUNTY
SEC. CLI-730-3.98 STA. 69+63.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JWH	JWH	PG.	CWB	AJK WHC	9-25-52	

FED. RD. DIVISION	STATE	FED. AID PROJECT	TYPE FUNDS
2	OHIO	S-1133(1)	POST WAR

121
121

CLINTON COUNTY
CLI.-730-(9.98-4.14)
CLI.-350-4.07

REINFORCING STEEL LIST

Mark	Size	No.	Length	Weight	Sh'p
SUPERSTRUCTURE					
S5a	¾"ø	163	32'-10"	8,038	S
S5a2	¾"ø	5	5'-6"	41	S
S5a3	¾"ø	1	6'-7"	10	S
S5a4	¾"ø	1	7'-7"	11	S
S5a5	¾"ø	1	8'-8"	13	S
S5a6	¾"ø	1	9'-9"	15	S
S5a7	¾"ø	1	10'-9"	16	S
S5a8	¾"ø	1	11'-10"	18	S
S5a9	¾"ø	1	12'-11"	19	S
S5a10	¾"ø	1	13'-11"	21	S
S5a11	¾"ø	1	15'-0"	23	S
S5a12	¾"ø	1	16'-1"	24	S
S5a13	¾"ø	1	17'-2"	26	S
S5a14	¾"ø	1	18'-2"	27	S
S5a15	¾"ø	1	19'-3"	29	S
S5a16	¾"ø	1	20'-4"	31	S
S5a17	¾"ø	1	21'-4"	32	S
S5a18	¾"ø	1	22'-5"	34	S
S5a19	¾"ø	1	23'-6"	35	S
S5a20	¾"ø	1	24'-6"	37	S
S5a21	¾"ø	1	25'-7"	38	S
S5a22	¾"ø	1	26'-8"	40	S
S5a23	¾"ø	1	27'-9"	42	S
S5a24	¾"ø	1	28'-9"	43	S
S5a25	¾"ø	1	29'-10"	45	S
S5a26	¾"ø	1	30'-11"	46	S
S5a27	¾"ø	1	31'-11"	48	S
S5a28	¾"ø	1	33'-0"	50	S
S5a29	¾"ø	1	32'-11"	49	S
S5a30	¾"ø	1	31'-9"	48	S
S5a31	¾"ø	1	30'-6"	46	S
S5a32	¾"ø	1	29'-4"	44	S
S5a33	¾"ø	1	28'-1"	42	S
S5a34	¾"ø	1	26'-11"	40	S
S5a35	¾"ø	1	25'-9"	39	S
S5a36	¾"ø	1	24'-6"	37	S
S5a37	¾"ø	1	23'-4"	35	S
S5a38	¾"ø	1	22'-1"	33	S
S5a39	¾"ø	1	20'-11"	31	S
S5a40	¾"ø	1	19'-9"	30	S
S5a41	¾"ø	1	18'-6"	28	S
S5a42	¾"ø	1	17'-4"	26	S
S5a43	¾"ø	1	16'-1"	24	S
S5a44	¾"ø	1	14'-11"	22	S
S5a45	¾"ø	1	13'-9"	21	S
S5a46	¾"ø	1	12'-6"	19	S
S5a47	¾"ø	1	11'-4"	17	S
S5a48	¾"ø	1	10'-1"	15	S
S5a49	¾"ø	1	8'-11"	13	S
S5a50	¾"ø	1	7'-9"	12	S
S5a51	¾"ø	4	6'-6"	39	S
S5b	¾"ø	221	32'-10"	10,899	S
S5b2	¾"ø	6	5'-6"	50	S
S5b3	¾"ø	1	6'-3"	9	S
S5b4	¾"ø	1	7'-1"	11	S
S5b5	¾"ø	1	7'-10"	12	S
S5b6	¾"ø	1	8'-8"	13	S
S5b7	¾"ø	1	9'-5"	14	S
S5b8	¾"ø	1	10'-2"	15	S

Mark	Size	No.	Length	Weight	Sh'p
SUPERSTRUCTURE					
S5b9	¾"ø	1	10'-11"	16	S
S5b10	¾"ø	1	11'-9"	18	S
S5b11	¾"ø	1	12'-6"	19	S
S5b12	¾"ø	1	13'-3"	20	S
S5b13	¾"ø	1	14'-1"	21	S
S5b14	¾"ø	1	14'-10"	22	S
S5b15	¾"ø	1	15'-7"	23	S
S5b16	¾"ø	1	16'-5"	25	S
S5b17	¾"ø	1	17'-2"	26	S
S5b18	¾"ø	1	17'-11"	27	S
S5b19	¾"ø	1	18'-9"	28	S
S5b20	¾"ø	1	19'-6"	29	S
S5b21	¾"ø	1	20'-3"	30	S
S5b22	¾"ø	1	21'-1"	32	S
S5b23	¾"ø	1	21'-10"	33	S
S5b24	¾"ø	1	22'-8"	34	S
S5b25	¾"ø	1	23'-5"	35	S
S5b26	¾"ø	1	24'-2"	36	S
S5b27	¾"ø	1	24'-11"	37	S
S5b28	¾"ø	1	25'-9"	39	S
S5b29	¾"ø	1	26'-6"	40	S
S5b30	¾"ø	1	27'-4"	41	S
S5b31	¾"ø	1	28'-1"	42	S
S5b32	¾"ø	1	28'-10"	43	S
S5b33	¾"ø	1	29'-8"	45	S
S5b34	¾"ø	1	30'-5"	46	S
S5b35	¾"ø	1	31'-2"	47	S
S5b36	¾"ø	1	32'-0"	48	S
S5b37	¾"ø	1	32'-9"	50	S
S5b38	¾"ø	1	32'-5"	49	S
S5b39	¾"ø	1	31'-6"	47	S
S5b40	¾"ø	1	30'-8"	46	S
S5b41	¾"ø	1	29'-9"	45	S
S5b42	¾"ø	1	28'-10"	43	S
S5b43	¾"ø	1	28'-0"	42	S
S5b44	¾"ø	1	27'-1"	41	S
S5b45	¾"ø	1	26'-2"	39	S
S5b46	¾"ø	1	25'-4"	38	S
S5b47	¾"ø	1	24'-5"	37	S
S5b48	¾"ø	1	23'-6"	35	S
S5b49	¾"ø	1	22'-8"	34	S
S5b50	¾"ø	1	21'-9"	33	S
S5b51	¾"ø	1	20'-10"	31	S
S5b52	¾"ø	1	20'-0"	30	S
S5b53	¾"ø	1	19'-1"	29	S
S5b54	¾"ø	1	18'-2"	27	S
S5b55	¾"ø	1	17'-4"	26	S
S5b56	¾"ø	1	16'-5"	25	S
S5b57	¾"ø	1	15'-6"	23	S
S5b58	¾"ø	1	14'-8"	22	S
S5b59	¾"ø	1	13'-9"	21	S
S5b60	¾"ø	1	12'-10"	19	S
S5b61	¾"ø	1	12'-0"	18	S
S5b62	¾"ø	1	11'-1"	17	S
S5b63	¾"ø	1	10'-2"	15	S
S5b64	¾"ø	1	9'-4"	14	S
S5b65	¾"ø	1	8'-5"	13	S
S5b66	¾"ø	1	7'-6"	11	S
S5b67	¾"ø	1	6'-8"	10	S
S5b68	¾"ø	5	5'-9"	43	S

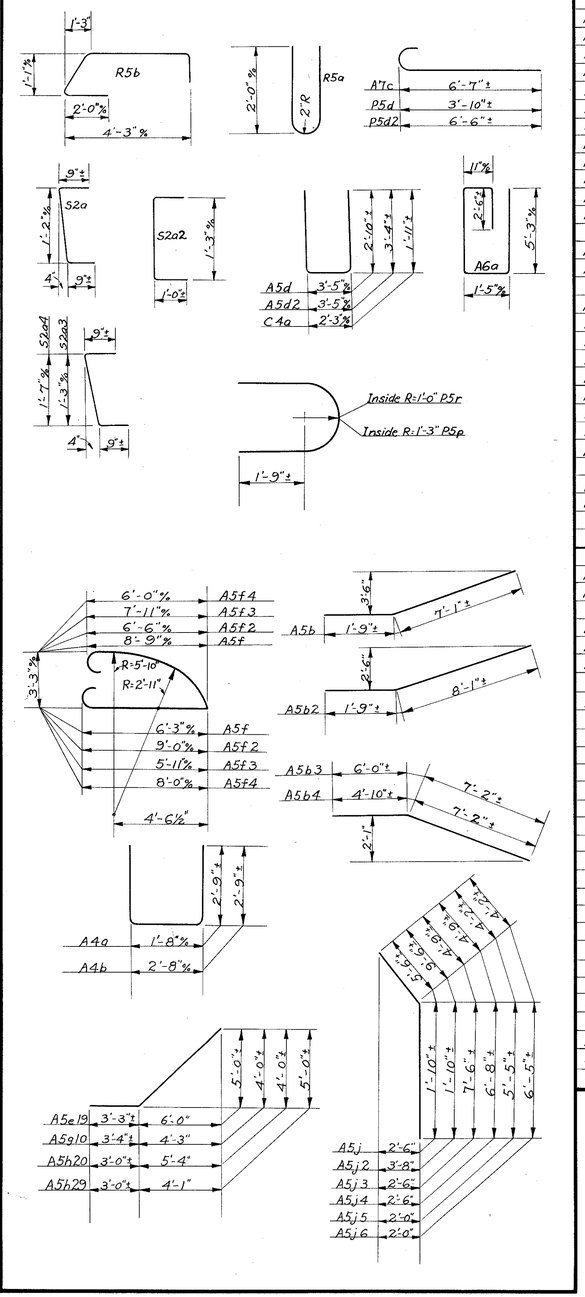
Mark	Size	No.	Length	Weight	Sh'p
SUPERSTRUCTURE					
S5c	¾"ø	50	38'-3"	2,873	S
S4a	⅝"ø	250	38'-0"	9,909	S
S4b	⅝"ø	50	28'-0"	1,460	S
S2a	½"ø	132	2'-8"	235	B
S2a2	½"ø	132	3'-2"	279	B
S2a3	½"ø	135	2'-9"	248	B
S2a4	½"ø	135	3'-1"	278	B
S2b	½"ø	267	3'-3"	580	S
R5a	¾"ø	12	4'-2"	*	B
R5b	¾"ø	8	7'-6"	*	B

* Included with railing for payment

NOTE:
The bar size designations shown in the superstructure steel list do not correspond with the size designations given in the January 1, 1951 edition of the Construction and Material Specifications.

Mark	No.	Length	Weight	Sh'p
SOUTH ABUTMENT				
A11a	10	23'-10"	1,266	S
A11a2	10	20'-11"	1,111	S
A7a	2	9'-6"	39	S
A7b	2	10'-6"	43	S
A7c	20	7'-5"	303	B
A6a	25	14'-8"	551	B
A5a	4	23'-10"	99	S
A5a2	6	20'-11"	131	S
A5b	2	8'-9"	18	B
A5b2	2	9'-9"	20	B
A5b3	1	13'-1"	14	B
A5b4	1	11'-11"	12	B
A5c	2	7'-9"	16	S
A5c2	2	9'-6"	20	S
A5c3	2	12'-6"	26	S
A5c4	2	12'-0"	25	S
A5c5	1	9'-0"	9	S
A5c6	1	10'-9"	11	S
A5c7	4	11'-0"	46	S
A5c8	4	25'-0"	104	S
A5c9	4	22'-2"	92	S
A5d	28	8'-10"	258	B
A5d2	24	9'-10"	246	B
A5e	2	6'-0"	13	S
A5e2	2	6'-8"	14	S
A5e3	2	7'-4"	15	S
A5e4	2	8'-0"	17	S
A5e5	2	6'-4"	13	S
A5e6	2	4'-10"	10	S
A5e7	2	6'-11"	14	S
A5e8	2	8'-7"	18	S

Bending Diagrams



NOTE:
The bar size designations shown in the superstructure steel list do not correspond with the size designations given in the January 1, 1951 edition of the Construction and Material Specifications.

Mark	No.	Length	Weight	Sh'p
SOUTH ABUTMENT				
A5e9	2	10'-4"	22	S
A5e10	4	6'-6"	27	S
A5e12	1	7'-8"	8	S
A5e13	1	6'-4"	7	S
A5e14	1	4'-7"	5	S
A5e15	1	2'-7"	3	S
A5e16	1	6'-8"	7	S
A5e17	1	5'-0"	5	S
A5e18	1	3'-6"	4	S
A5e19	2	11'-0"	23	B
A5e20	2	5'-0"	10	S
A5e21	2	7'-4"	15	S
A5f	3	17'-9"	56	B
A5f2	3	18'-3"	57	B
A5g	5	2'-2"	11	S
A5g3	1	6'-8"	7	S
A5g4	1	6'-3"	6	S
A5g5	1	4'-9"	5	S
A5g6	1	6'-0"	6	S
A5g7	1	4'-6"	5	S
A5g8	2	6'-6"	14	S
A5g9	2	4'-6"	9	S
A5g10	2	9'-1"	19	B
A4a	12	7'-0"	56	B
A4b	6	8'-0"	32	B

Mark	No.	Length	Weight	Sh'p
NORTH ABUTMENT				
A11b	10	20'-7"	1,094	S
A11b2	10	18'-3"	970	S
A7c	20	7'-5"	303	B
A7d	2	12'-2"	50	S
A7e	2	7'-8"	31	S
A6a	22	14'-8"	485	B
A5d	24	8'-10"	221	B
A5d2	20	9'-10"	205	B
A5e	3	6'-0"	19	S
A5a3	4	20'-7"	86	S
A5a4	6	18'-3"	114	S
A5f3	3	16'-7"	52	B
A5f4	3	16'-9"	52	B
A5g	4	2'-2"	9	S
A5h	2	4'-6"	9	S
A5h2	2	6'-1"	13	S
A5h3	2	8'-0"	17	S
A5h4	2	9'-2"	19	S
A5h5	2	9'-9"	20	S
A5h6	2	6'-4"	13	S
A5h7	2	4'-0"	8	S

Mark	No.	Length	Weight	Sh'p
NORTH ABUTMENT				
A5h8	2	5'-11"	12	S
A5h9	2	7'-8"	16	S
A5h10	2	6'-9"	14	S
A5h11	1	6'-7"	7	S
A5h12	1	5'-9"	6	S
A5h13	1	4'-6"	5	S
A5h14	1	3'-0"	3	S
A5h15	1	5'-10"	6	S
A5h16	1	4'-10"	5	S
A5h17	1	3'-4"	3	S
A5h18	2	7'-6"	16	S
A5h19	2	5'-3"	11	S
A5h20	2	9'-7"	20	B
A5h22	1	7'-8"	8	S
A5h23	1	6'-4"	7	S
A5h24	1	4'-6"	5	S
A5h25	1	6'-6"	7	S
A5h26	1	4'-0"	4	S
A5h27	2	5'-4"	11	S
A5h28	2	4'-0"	8	S
A5h29	2	9'-4"	19	B
A5j	2	7'-3"	15	B
A5j2	2	11'-3"	23	B
A5j3	1	12'-2"	13	B
A5j4	1	11'-4"	12	B
A5j5	1	9'-6"	10	B
A5j6	1	10'-6"	11	B
A5K	2	5'-6"	11	S
A5K2	4	10'-2"	42	S
A5K3	2	7'-0"	15	S
A5K4	2	11'-3"	23	S
A5K5	2	12'-4"	26	S
A5K6	2	10'-0"	21	S
A5K7	4	37'-0"	154	S
A4a	12	7'-0"	56	B
A4b	6	8'-0"	32	B

Mark	No.	Length	Weight	Sh'p
SOUTH PIER				
P5m3	2	16'-0"	33	S
P5d	36	4'-5"	166	B
P5d2	28	7'-1"	207	B
P5e	36	15'-7"	585	S
P5f	9	18'-7"	174	S
P5g	6	18'-0"	113	S
P5h	6	17'-6"	110	S
P5j	6	16'-11"	106	S
P5K	9	16'-4"	153	S
P5m	32	25'-9"	859	S
P5n	32	17'-7"	587	S
P5p	14	7'-6"	110	B
P5r	19	6'-9"	134	B

Mark	No.	Length	Weight	Sh'p
NORTH PIER				
P5d.	34	4'-5"	157	B
P5d2	26	7'-1"	192	B
P5e	34	15'-7"	553	S
P5g	7	18'-0"	131	S
P5j	8	16'-11"	141	S
P5K	6	16'-4"	102	S
P5K2	7	15'-10"	116	S
P5m2	32	24'-5"	815	S
P5n2	32	16'-9"	559	S
P5p	14	7'-6"	110	B
P5r	19	6'-9"	134	B

Mark	No.	Length	Weight	Sh'p
CATCH BASIN				
C4a	8	5'-11"	32	B
C5a	11	2'-10"	32	S
C5a2	1	1'-10"	2	S
C5b	2	2'-0"	4	S
C5c	2	2'-2"	5	S

Mark	No.	Length	Weight	Sh'p
REPLACEMENT BARS				
RE11	1	7'-6"	40	S
RE 8	1	6'-6"	17	S
RE 7	1	6'-2"	13	S
RE 6	2	5'-11"	18	S
RE 5	2	5'-7"	12	S
RE 4	1	5'-3"	4	S

NOTE:
In the reinforcing steel bar marks of the substructure units the numeral following the first letter is the Bar Number which indicates the size of the bar.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES AND RAILROAD CROSSINGS

REINFORCING STEEL LIST
BR. NO. CN-730-49
over COWAN CREEK

CLINTON COUNTY
Sec. CLI-730-3.98 STA. 69+6300

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JWH	JWH	DJO	JWH	AFS WHC	9-25-52	